
**ROADWAY GEOTECHNICAL REPORT
JANE BYRNE INTERCHANGE
RECONSTRUCTION
I-90/94 AND CONNECTING RAMPS
62A76, 62A77, AND 60X94
SECTIONS 2015-020B AND 2014-015R&B-R
COOK COUNTY, ILLINOIS**

for

AECOM

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11. Abstract		
<p>As part of the Jane Byrne Interchange project, the Interstate 90/94 northbound (NB) and southbound (SB) including their connecting ramps and roads will be reconstructed under Contracts 62A76, 62A77, and 60X94. The contracts include the I-90/94 NB, SB, and all or portions of connecting ramps and roads. The new pavements vary between 20- to 80-foot wide. The roadway pavement widening will require cut into the existing slopes, existing roadways, or be supported on new fill. The ramps are flanked by existing or new retaining walls and embankments with slopes no steeper than 1:2 (V:H).</p> <p>Based on our subsurface investigation results, the soils consists of up to 20 feet of granular and cohesive fill, up to 10 feet medium stiff to very stiff clay crust, up to 40 feet of very soft to medium stiff clay. Water-bearing layers are present in the fill, within the soft clay, and at deeper levels within the granular materials and weathered dolostone.</p> <p>The subgrade along the alignments consist of fill, stiff to hard silty clay, or very soft clay. Since the soft clayey subgrade will not provide a stable working platform for placement and compaction of improved aggregate subgrade; we recommend 24 inches of additional undercut below the 12 inches of IDOT Aggregate Subgrade Improvement and placing geotextile fabric at the base of the excavation for separation. Alternatively, the undercut thickness could be reduced by using a bi-axial or tri-axial geogrid designed for the average daily traffic, axel loading, and pavement design life. The pavement sections should be designed for an average SSR value of POOR or an IBR value of 2.</p> <p>The recommendations pertaining to the proposed retaining walls required to accommodate the new embankment or retain the cut sections along the improvement, are provided in separate structure geotechnical reports.</p>		
12. Path to archived file		
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1.0 INTRODUCTION

This report presents the results of our geotechnical subsurface investigation, laboratory testing, and engineering analyses, evaluations, and recommendations for roadway pavement reconstruction along the I-90/94 NB, I-90/94 SB and connecting ramps and roads (Contracts 62A76, 62A77, and 60X94). A *Site Location Map* is presented as Exhibit 1.

Roadway design drawings provided to Wang Engineering, Inc. (Wang) by AECOM and TranSystems Corporation (TranSystems) indicate the improvements will include the following sections

Contract 62A76 – Northbound I-90/94

- I-90/94 northbound (NB) between Station 6100+00.00 and Station 6175+07.63;
- Ramp NW between Station 1799+15.31 and Station 1807+80.00;
- Roosevelt Entrance Ramp between Station 7249+29.42 and Station 7254+21.37;
- Taylor Entrance Ramp between Station 6305+21.15 and Station 6309+70.74;
- NB CD Road between Station 6319+97.50 and Station 6367+04.01;
- Ramp WN between Station 1105+76.20 and Station 1108+99.25;
- EN Slip Ramp between Station 6502+29.74 and 6505+75.67;
- Ramp EN between Station 1617+70.00 and Station 1625+18.68;
- Jackson Entrance Ramp between Station 8243+20.18 and Station 8245+05.53;
- Adams Entrance Ramp between Station 8343+65.65 and Station 8346+09.15;
- Madison Exit Ramp between Station 8540+00.00 and Station 8548+86.82;
- Washington Exit Ramp between Station 8680+00.00 and Station 8684+50.69;
- Randolph Exit Ramp between Station 8740+00.00 and Station 8744+73.19; and
- Lake Exit Ramp between Station 8840+00.00 and Station 8849+09.73;

Contract 62A77 – Southbound I-90/94

- I-90/94 southbound (SB) between Station 6202+91.11 and Station 6252+85.00;
- Ramp SW between Station 1300+00.00 and Station 1315+00.47;
- Adams Exit Ramp between Station 8380+00.00 and Station 8383+45.00;
- Jackson Exit Ramp between Station 8280+00.00 and Station 8281+91.96;
- SB Access Road between Station 20+00.00 and Station 26+16.53;

Contract 60X94 – Adams Street and Jackson Boulevard

- Adams Exit Ramp between Station 8383+45.00 and Station 8388+18.06; and
- Adams Entrance Ramp between Station 8340+00.00 and Station 8343+65.65.
- Jackson Exit Ramp between Station 8281+91.96 and Station 8286+98.73;
- Jackson Entrance Ramp between Stations 8240+00.00 and Station 8243+20.18;

Several roadway sections and structures along the alignments were addressed in Wang's various roadway geotechnical reports (RGR) and structure geotechnical reports (SGR). This report addresses all the above listed alignments, any other reports do not apply.

The new roadway pattern shows numerous new ramps, bridges, retaining walls, and roadway alignments. The roadway sections addressed in this report will have one to three lanes with shoulders on both sides and a total width of about 14 to 40 feet along the connecting ramps and four to six lanes with shoulders on both sides with a total width of about 64 to 80 feet along the I-90/94 NB and SB.

The purpose of the investigation was to characterize the site soil, groundwater conditions, and provide geotechnical analyses and recommendations for the design and construction of the proposed pavements.

2.0 SITE AND REGIONAL GEOLOGY

The site is located within the City of Chicago at the I-90/94 and I-290 Circle Interchange. On the USGS Chicago Loop 7.5 Minute Series map, the ramps run northward through Sections 21, 16 and 9 of Tier 39 N, Range 14 E of the Third Principal Meridian.

The following review of published geologic data, with emphasis on factors that might influence the design and construction of the proposed engineering works, is meant to place the project area within a geological framework and confirm the dependability and consistency of the present subsurface investigation results. For the study of the regional geologic framework, Wang considered northeastern

Illinois in general and Cook County in particular. Exhibit 2 illustrates the *Site and Regional Geology*.

2.1 Physiography

The site is situated within the northern section of the Chicago/Calumet lacustrine plain (Chrzatowsky and Thompson 1992). The area's flat, lakeward-sloping surface is a wave-scoured groundmoraine covered by thin and discontinuous lacustrine offshore silt and clay (Willman 1971).

The investigated section of I-90/94 (Dan Ryan expressway) was constructed within a 18- to 25-foot deep cut, at elevations ranging from 574 to 590 feet. The roadway connection ramps get from above ground surface elevation of about 598 feet south of the circle to about 578 feet along proposed I-90/94.

2.2 Surficial Cover

Within the project area, 100-foot thick or more, Wisconsin-age glacial drift covers the bedrock (Leetaru et al. 2004). The glacial cover is made up of discontinuous occurrences of clay and silt of the Equality Formation of the Mason Group and diamictons of the Wadsworth and Lemont Formations of the Wedron Group (Hansel and Johnson 1996). The Equality Formation is made up of bedded silt and clay, locally laminated, with lenses and/or thin beds of sand and gravel. The Wadsworth Formation consists of relatively homogenous, massive, gray till with clay to silty clay matrix, with dolostone and shale clasts and occasional lenses of sorted and stratified silt. The Wadsworth Formation is underlain by the pebbly silty clay loam to silty loam diamicton of the Yorkville Member of the Lemont Formation, known informally as the Chicago "hardpan."

From a geotechnical viewpoint, the Equality Formation is characterized by low strength, medium to high plasticity, and medium to high moisture content, whereas the Wadsworth Formation is characterized by medium plasticity, medium to low moisture content, medium to very stiff consistency, poor permeability, and low compressibility (Bauer et al. 1991; Peck and Reed 1954).

2.3 Bedrock

In the project area, the glacial deposits unconformably rest over a 350-foot thick Silurian-age dolostone (Leetaru et al. 2004) at depths more than 100 feet below ground surface (bgs).

Our subsurface investigation results fit into the local geologic context. The borings drilled in the project area revealed the native sediments consist of clay to silty clay diamictons, hardpan, and gravelly sands that overlie the bedrock.

2.4 Climate Data

The subsurface investigation included in the report was performed between February 2013 and July 2019. To assess the possible effects of temperature and precipitation on water table data and soil moisture, the climatic conditions for the investigation period and three months prior to the start of the investigation are summarized graphically in Figures 1 through 10. The precipitation and temperature data for the investigation period are compared against thirty-year monthly data (1981 to 2010) in box-and-whiskers format to show deviations from “normal” climate conditions during the current investigation. Local climate data were obtained from the O’Hare Station (NCDC 2019).

The deviations from the historical 30-year climate data show a relatively wet period with average temperatures for 2013 and a relatively wet with lower than average temperature for 2014. Record precipitation event of 8.68 inches was recorded in April 2013. In addition, colder than normal temperatures were recorded in November and December 2013 and January, February, March, July, and August 2014 during and/or before the investigation. Record high temperatures of 48.9F and 39F were observed in December 2012 and December 2015, respectively. During 2019 investigation, the deviations from the historical 30-year climate data show average wet period with relatively low temperatures. Two months prior the investigation, record high precipitation events were recorded. The total precipitation for May was 8.25 inches. The presents of perched groundwater within the granular fill may have been influenced by these climate factors.

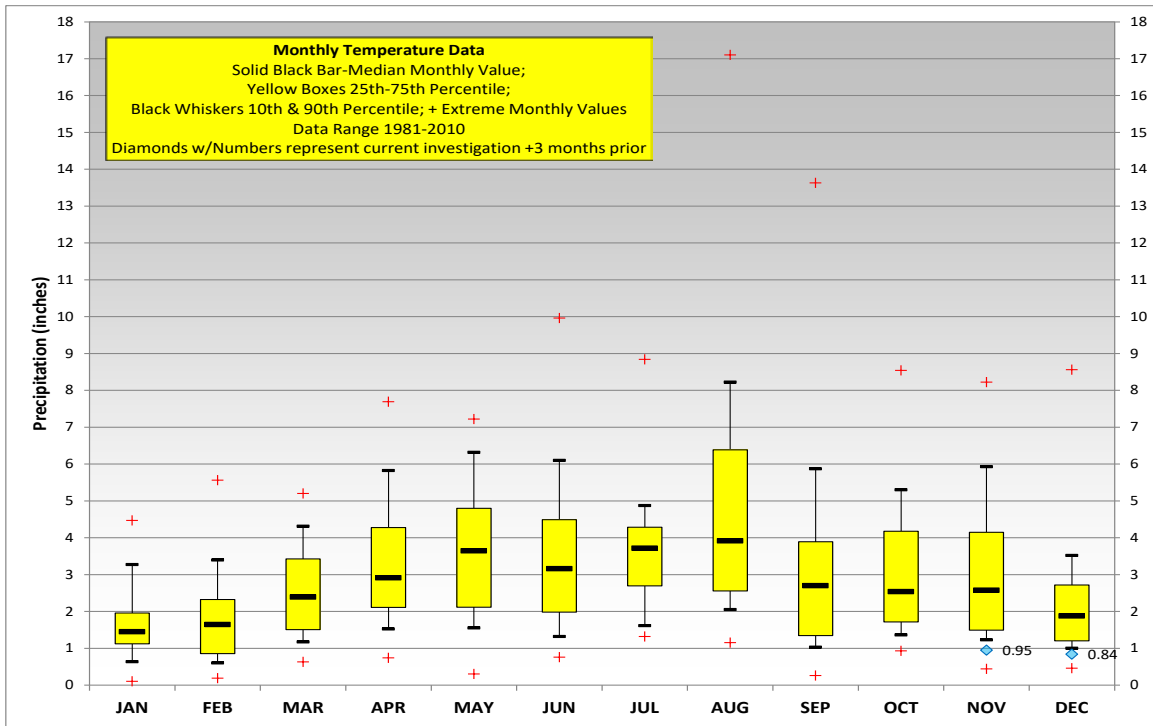


Figure 1: Monthly Precipitation Data for 2012

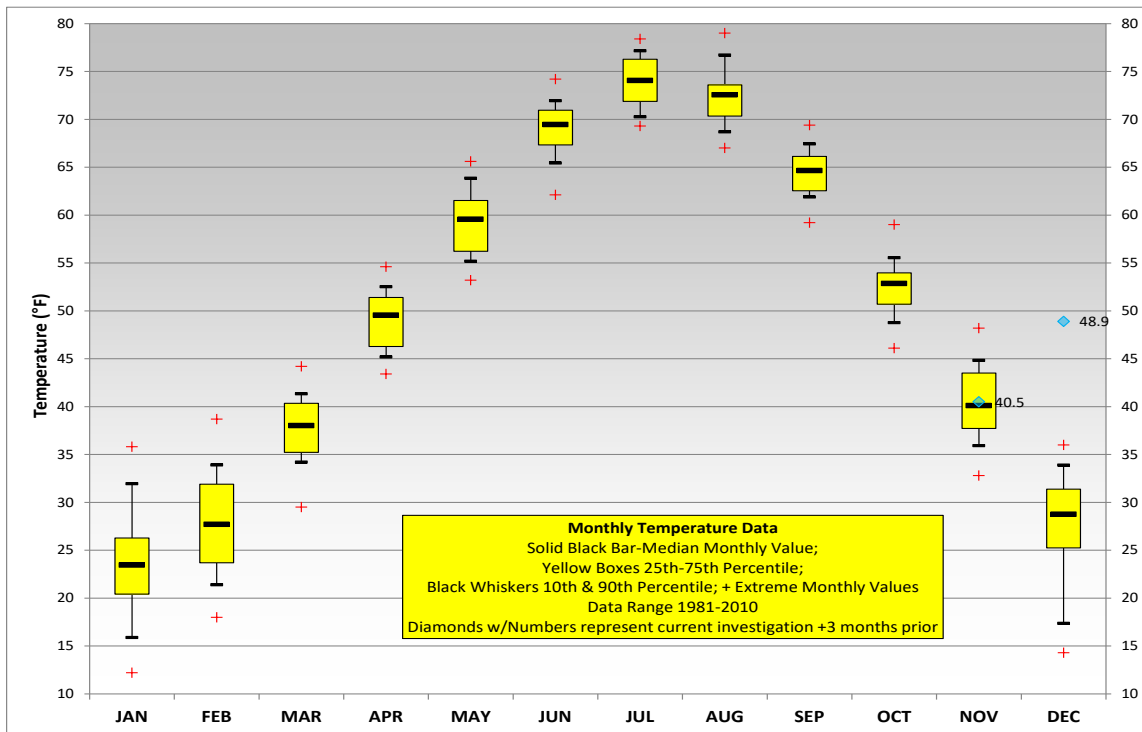


Figure 2: Monthly Temperature Data for 2012

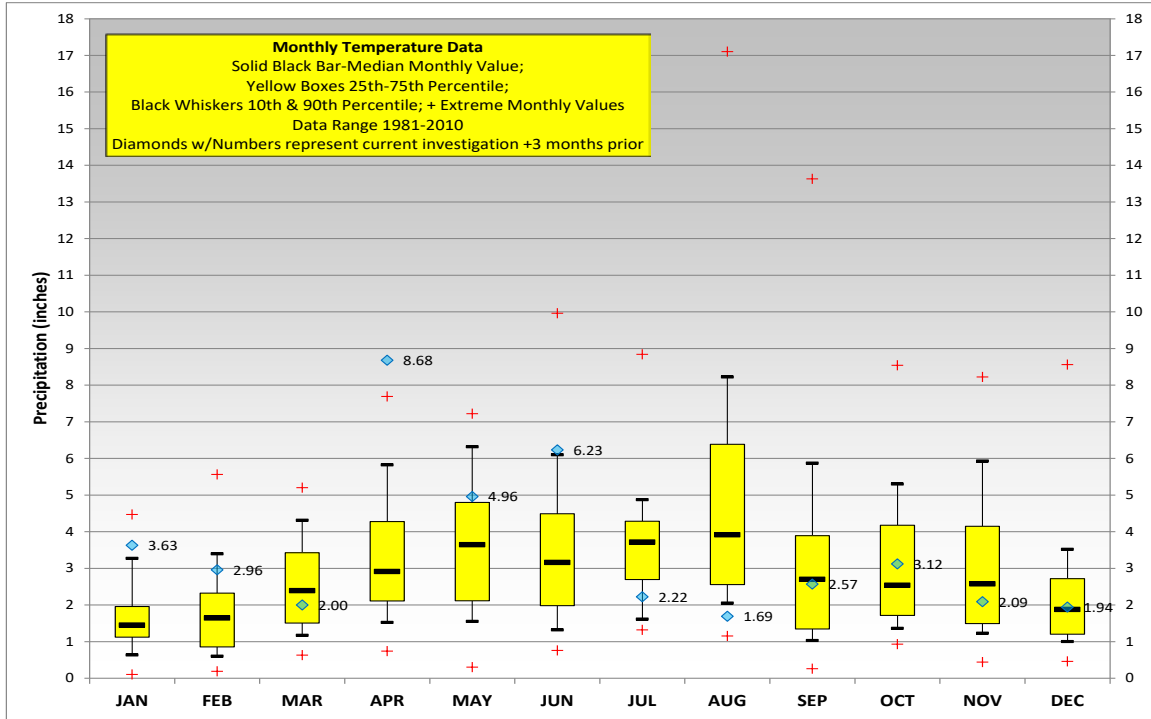


Figure 3: Monthly Precipitation Data for 2013

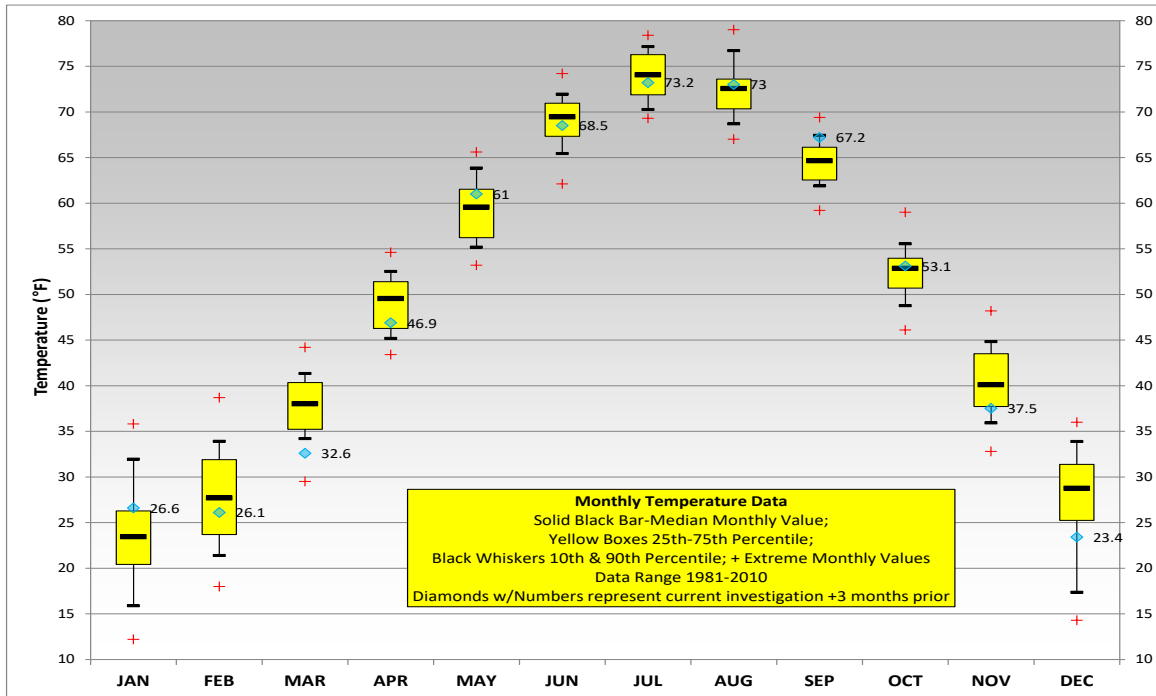


Figure 4: Monthly Temperature Data for 2013

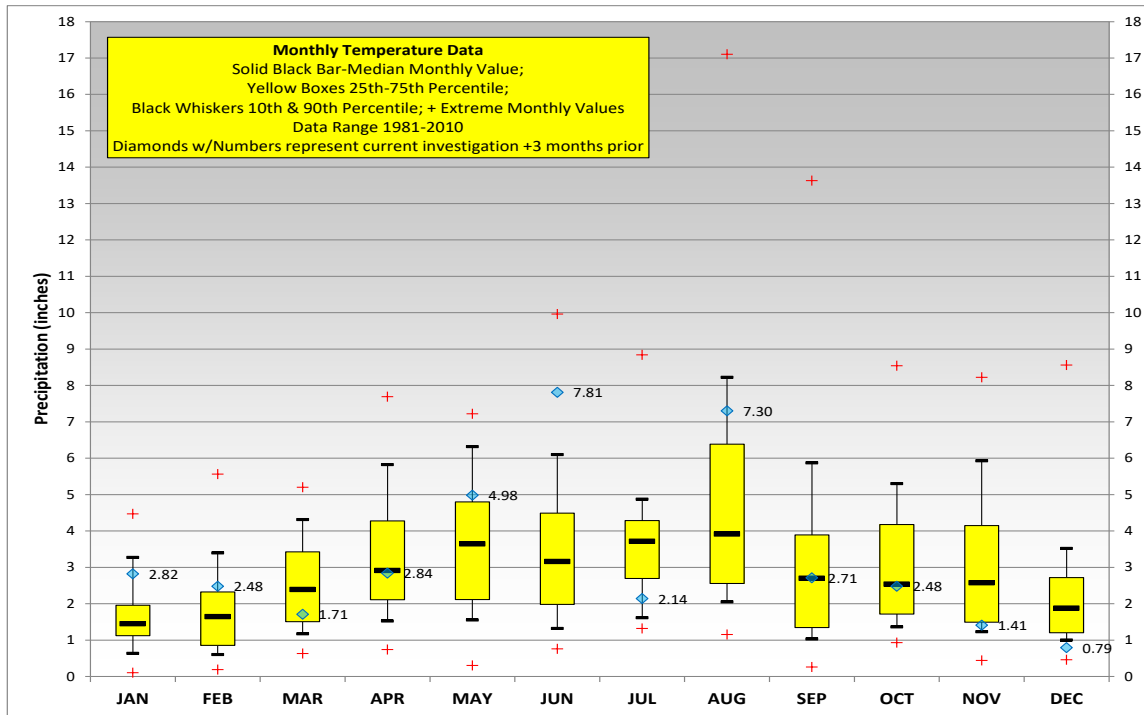


Figure 5: Monthly Precipitation Data for 2014

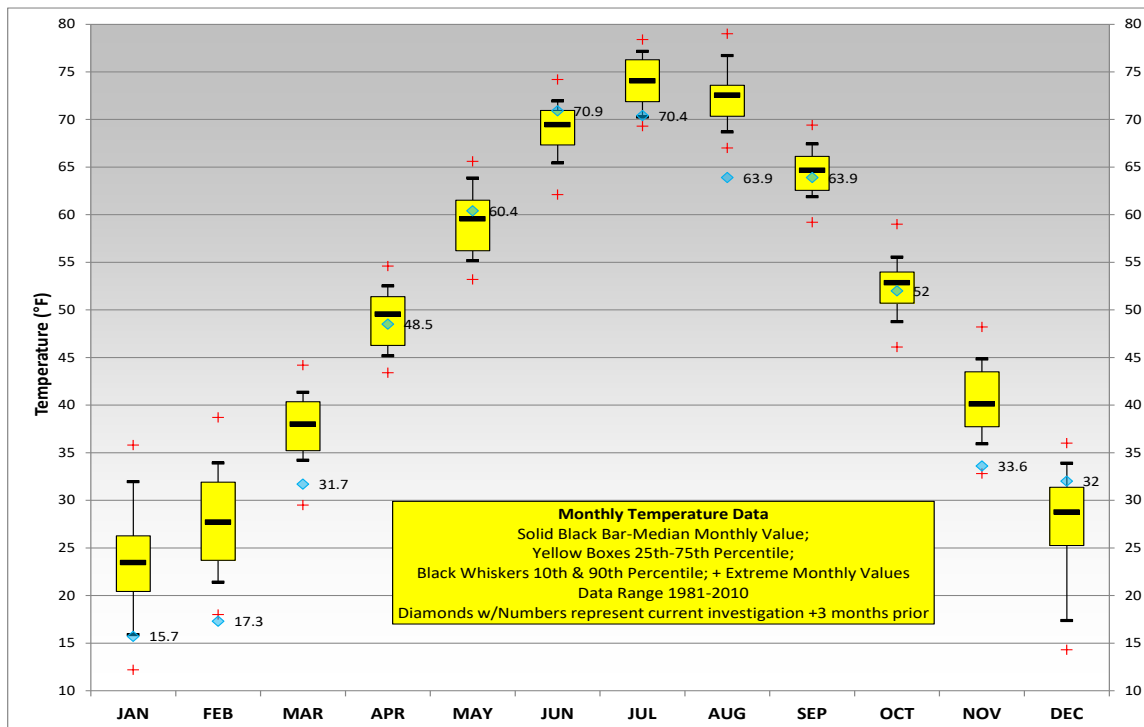


Figure 6: Monthly Temperature Data for 2014

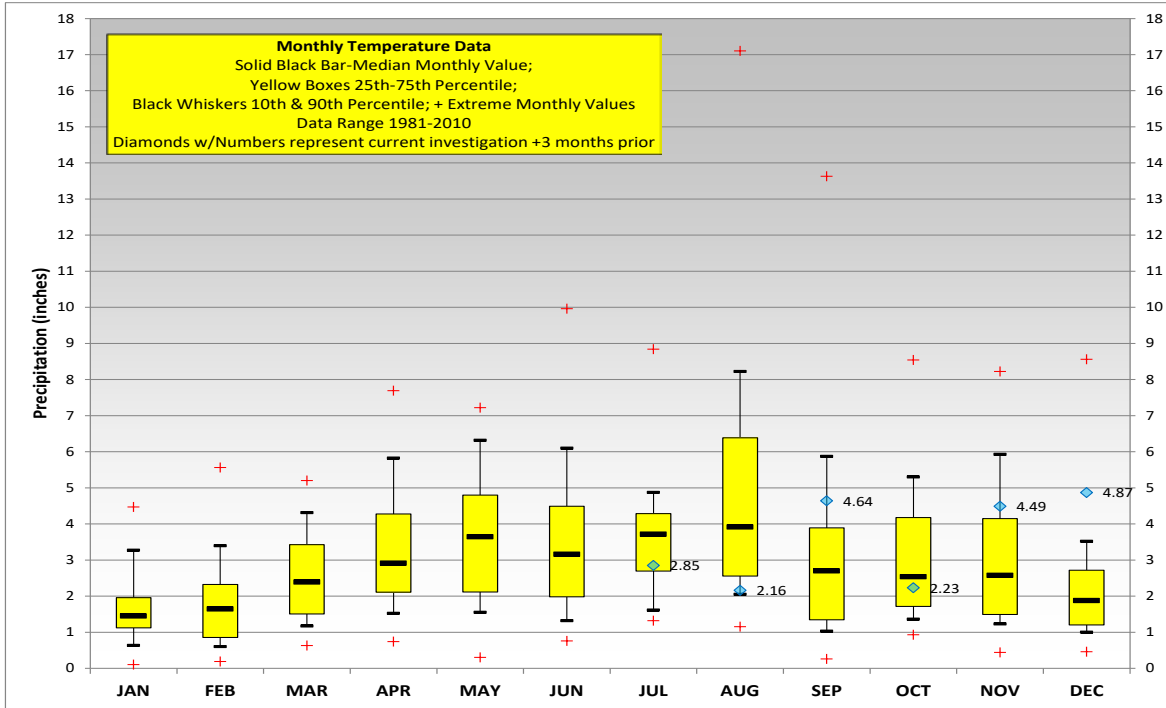


Figure 7: Monthly Precipitation Data for 2015

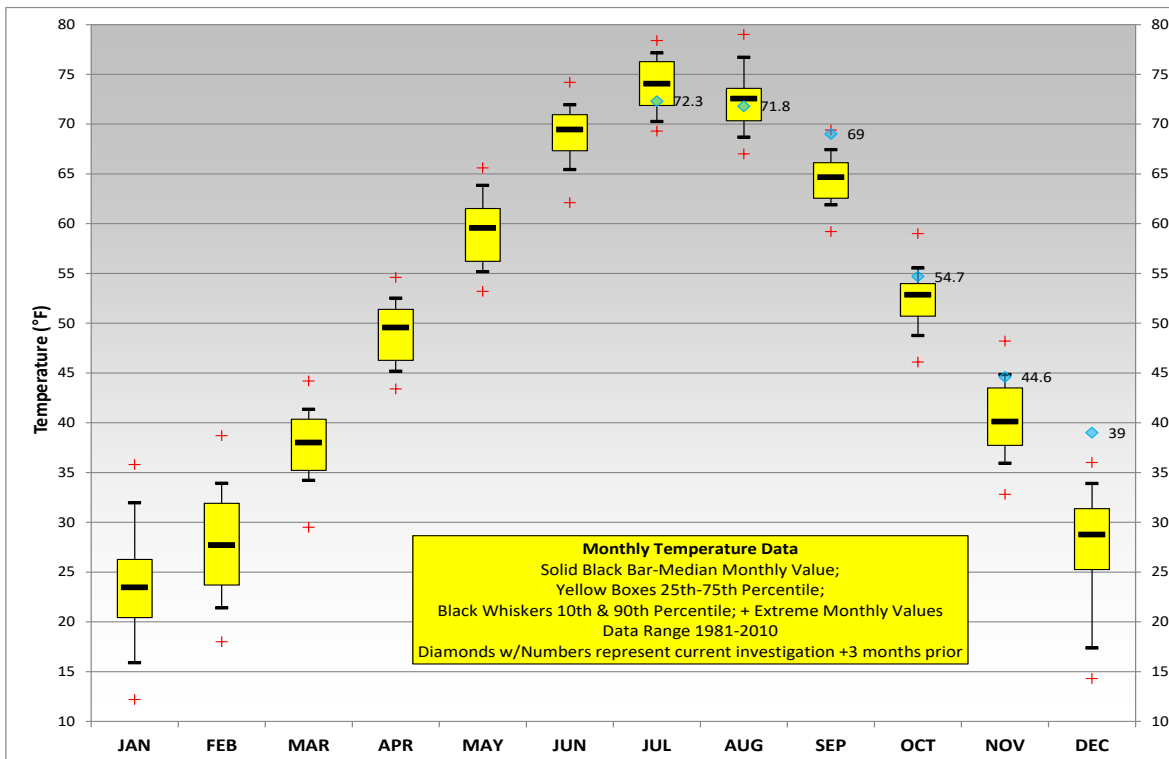


Figure 8: Monthly Temperature Data for 2015

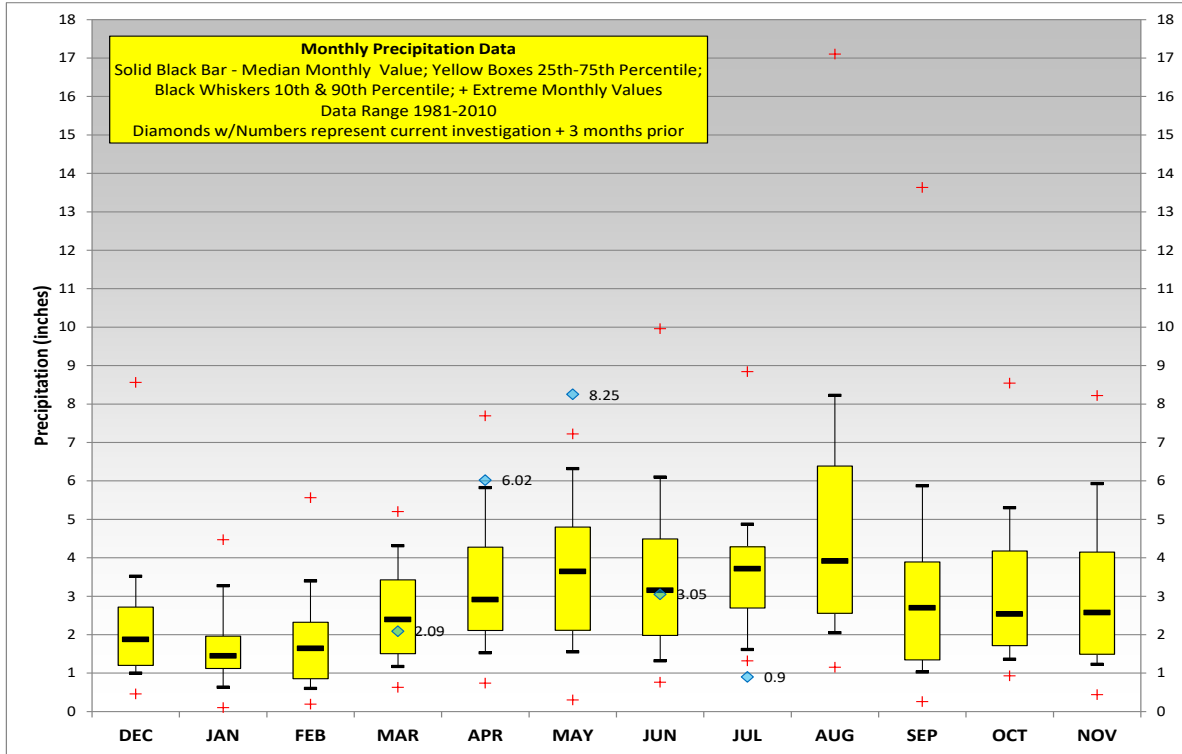


Figure 9: Monthly Precipitation Data for 2019

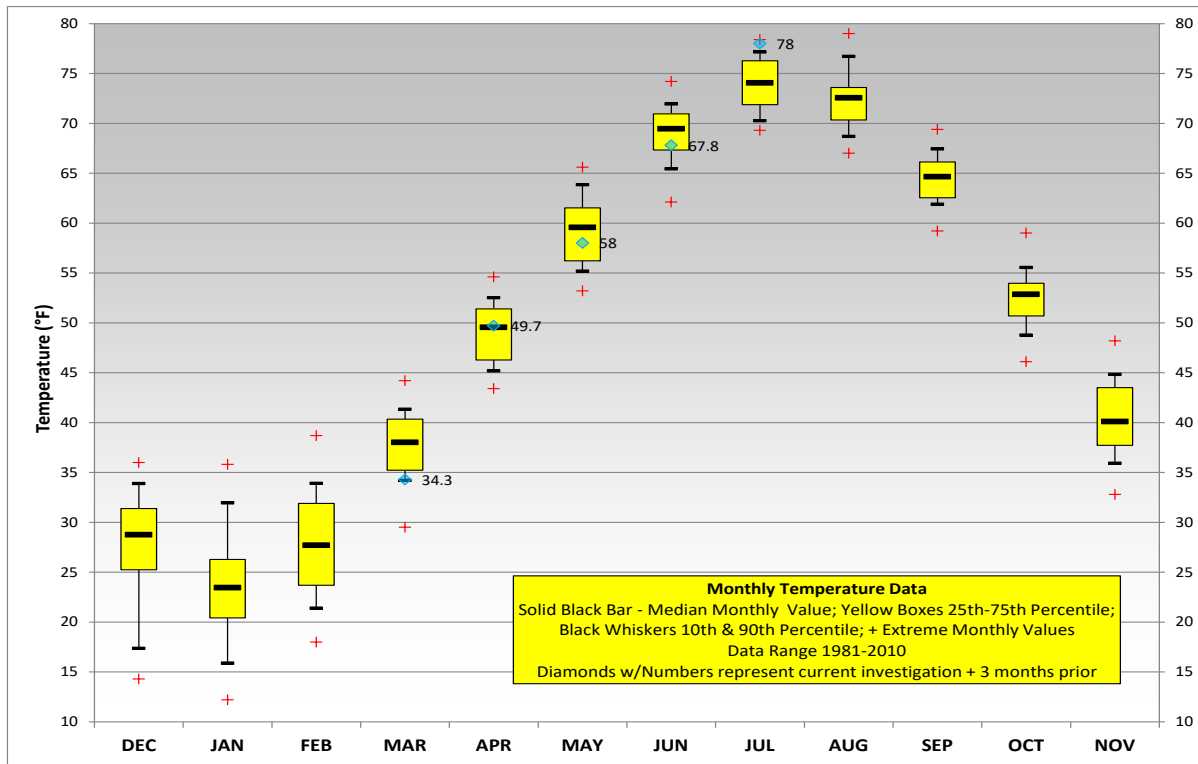


Figure 10: Monthly Temperature Data for 2019

3.0 METHODS OF INVESTIGATION

The following sections outline the methods of subsurface and laboratory investigations. All elevations in this report are based on NAVD 1988.

3.1 Subsurface Investigation

To characterize the subsurface soil and groundwater condition along each roadway alignment included in Contracts 62A76, 62A77, and 60X94, we considered data from subgrade (SGB) borings, bridge (B) borings, retaining wall (RWB) borings, light tower borings (LTB), buildings and facilities borings (BFB), sign structure borings (NB), Shelby tube borings (ST), and vane shear (VS/VST) borings. This RGR addresses 21 alignments along I-90/94 and its connecting ramps. The roadway alignment limits and main reference borings are summarized in Table 1a and 1b, along NB and SB, respectively.

The as-drilled boring locations and elevations were surveyed by others; stations and offsets were provided by AECOM or measured by Wang based on drawings provided by AECOM and TranSystems. Boring locations and elevations are shown on the *Boring Logs* (Appendix A). The as-drilled boring locations are shown in *Boring Location Plans and Soil Profiles* (Appendix E).

Truck- and ATV-mounted drilling rigs equipped with hollow stem augers were used to advance and maintain open boreholes to 10 feet and mud rotary drilling technique was used below 10 feet to boring termination depths or to the bedrock. Soil sampling was performed according to AASHTO T 206, "*Penetration Test and Split Barrel Sampling of Soils.*" The soil was sampled continuously in roadway borings and at 2.5-foot intervals to 30 feet bgs and at 5-foot intervals thereafter in structure borings. A manually operated, jackhammer-driven, LB-sized Geoprobe was also used to continuously sample the soil in areas with limited access. Soil samples collected from each sampling interval were placed in sealed jars and transported to Wang Geotechnical Laboratory in Lombard, Illinois for further examination and laboratory testing. Shelby tube borings were continuously sampled in accordance with AASHTO T 207, "*Thin-walled Tube Sampling of Soils.*"

Table 1a: NB Summary of Alignments and Reference Borings

Alignment	Approximate Limits		Reference Boring IDs
	Start Station	End Station	
I-90/94 NB	6100+00.00	6175+07.63	02-RWB-01 to 02-RWB-06, 02-ST-06, 0589-B-02, 1088-B-01, 1088-B-02, 1165-B-02, 1702-B-02, 1703-B-03, 1704-B-02, 1704-B-03, 1705-B-01 to 1705-B-04, 1705-B-07, 1705-B-08, 1706-B-02, 1712-B-02, 2054-B-03, 2055-B-04, 2055-B-05, 20-RWB-01, 21-RWB-01, 23-RWB-04, 24-RWB-01, 25-RWB-01, 25-RWB-02, 26-RWB-01, 27-RWB-01, 28-RWB-01, 28-RWB-02, 31-RWB-01 to 31-RWB-03, 32-RWB-01 to 32-RWB-03, 33-RWB-01, 34-RWB-01, 35-RWB-01, 35-RWB-02, BFB-01, BFB-03, LTB-07, NB90-SGB-01 to NB90-SGB-23, SB90-SGB-02, SB90-SGB-04, SB90-SGB-06 to SB90-SGB-08, SB90-SGB-15 to SB90-SGB-18, SB90-SGB-20, Z051-HA-01 to Z051-HA-03, Z051-RWB-01, Z051-RWB-02, Z051-RWB-04
Ramp NW	1799+15.31	1807+80.00	1165-B-03B, 1165-B-03C, NB90-SGB-04 to NB90-SGB-06
Roosevelt Entrance Ramp	7249+29.42	7254+21.37	1165-B-03C, 1165-B-03B, NB90-SGB-05, NB90-SGB-06
Taylor Entrance Ramp	6305+21.15	6309+70.74	02-RWB-01 to 02-RWB-06, 02-ST-06, LTB-07, NB90-SGB-08, NB90-SGB-09
NB CD Road	6319+97.50	6367+04.01	0461-HA-01, 0589-B-03, 1702-B-03 to 1703-B-05, 1704-B-04, 1705-B-02 to 1705-B-05, 1710-B-02, 1710-B-03, 1710-B-04, 1712-B-03, 1715-B-01, 2055-B-02, 21-RWB-01 to 21-RWB-05, 22-RWB-03 to 22-RWB-05, 23-RWB-01 to 23-RWB-05, 23-RWB-01HA to 23-RWB-05HA, 24-RWB-01 to 24-RWB-04, 24-RWB-02HA, 24-RWB-03HA, 24-ST-01, 25-RWB-02, 27-RWB-01 to 27-RWB-03, 27-ST-01, 28-RWB-02, 29-RWB-01, 29-RWB-02, 30-RWB-03, 31-RWB-01 to 31-RWB-03, 32-RWB-01 to 32-RWB-03, 33-RWB-01, 33-RWB-02, LTB-15 to LTB-17, NB-22, NB90-SGB-11, NB90-SGB-15, NB90-SGB-19 to NB90-SGB-23, PS-5CCTV, VST-02, VST-06, Z051-RWB-04
Ramp WN	1105+76.20	1108+99.25	1703-B-04, 1704-B-04, 1706-B-01, 1706-B-02, 1715-B-02, 2055-B-05

Alignment	Approximate Limits		Reference Boring IDs
	Start Station	End Station	
EN Slip Ramp	6502+29.74	6505+75.67	1703-B-04, 1704-B-04, 1715-B-01, 1712-B-03, 2055-B-02, 22-RWB-03, 22-RWB-04, 22-RWB-05, 23-RWB-01, 23-RWB-01HA, 23-RWB-02, 23-RWB-02HA, 23-RWB-03, 23-RWB-03HA, VST-06
Ramp EN	1617+70.00	1625+18.68	1702-B-02, 1712-B-03, 2055-B-05, 23-RWB-01 to 23-RWB-04, 24-RWB-01, NB90-SGB-14
Jackson Entrance Ramp	8240+00.00	8245+05.53	1702-B-03, 24-RWB-01, 24-RWB-02HA, 24-RWB-03, 24-RWB-03HA, 24-RWB-04, 24-ST-01, 25-RWB-01, 25-RWB-02, 26-RWB-01, NB90-SGB-15
Adams Entrance Ramp	8340+00.00	8346+09.15	0589-B-03, 2054-B-03, 27-RWB-01 to 27-RWB-03, 27-ST-01, 28-RWB-01, 28-RWB-02, 29-RWB-01, 29-RWB-02, 30-RWB-01, 31-RWB-01, LTB-15, NB90-SGB-16, NB90-SGB-17, VST-02
Madison Exit Ramp	8540+00.00	8548+86.82	0589-B-03, 27-RWB-01 to 27-RWB-03, 27-ST-01, 29-RWB-01, 29-RWB-02, 30-RWB-01 to 30-RWB-03, 30-PZ-01, 31-RWB-01 to 31-RWB-03, LTB-15, NB-22, VST-02, VST-03
Washington Exit Ramp	8680+00.00	8684+50.69	32-RWB-01, 32-RWB-02, 32-ST-01, 32-RWB-03, 33-RWB-01, 33-RWB-02, LTB-16
Randolph Exit Ramp	8740+00.00	8744+73.19	33-RWB-02, LTB-17, Z051-RWB-01, Z051-HA-01, Z051-RWB-02, Z051-RWB-04, Z051-HA-02, Z051-HA-03
Lake Exit Ramp	8840+00.00	8849+09.73	32-RWB-02, 32-RWB-03, 32-ST-01, 33-RWB-01, 33-RWB-02, LTB-17, NB90-SGB-21, NB90-SGB-22, Z051-RWB-01, Z051-HA-01, Z051-RWB-02, Z051-RWB-04, Z051-HA-02, Z051-HA-03

Table 1b: SB Summary of Alignments and Reference Borings

Alignment	Approximate Limits		Reference Boring IDs
	Start Station	End Station	
I-90/94 SB	6202+91.11	6252+85.00	0589-B-02, 08-RWB-01 to 08-RWB-03, 1087-B-03, 1165-B-01C, 1165-B-01B, 1165-B-02, 14-RWB-01 to 14-RWB-03, 15-RWB-03, 16-RWB-01A, 16-RWB-01B to 16-RWB-04, 1702-B-02, 1704-B-02, 1705-B-08, 1712-B-01, 1714-B-04, 1715-B-03, 2054-B-02, 2055-B-03, 2055-B-04, 34-RWB-01, 35-RWB-01, 35-RWB-02, 38-RWB-01, BFB-02, BFB-04, NB90-SGB-03, NB90-SGB-05, NB90-SGB-07, NB90-SGB-13, NB90-SGB-16, NB90-SGB-18, SB90-SGB-01 to SB90-SGB-20, SB90-SGB-24, SB90-SGB-25
Ramp SW	1300+00.00	1315+00.47	0589-B-01, 08-RWB-01 to 08-RWB-03, 1702-B-01, 2054-B-02, 36-RWB-01, 36-RWB-02, 37-RWB-01, 37-RWB-01, SB90-SGB-02, SB90-SGB-03, SB90-SGB-05
Adams Exit Ramp	8380+00.00	8388+18.06	2054-B-01, 2054-B-02, 36-RWB-01, 36-RWB-02, 0589-B-01, SB90-SGB-03
Jackson Exit Ramp	8280+00.00	8286+98.73	0589-B-01, 0589-B-02, 08-RWB-01 to 08-RWB-03, 36-RWB-02, 37-RWB-01, 37-RWB-02, SB90-SGB-05
SB Access Road	20+00.00	26+16.53	1712-B-01, 1714-B-04, 1704-B-01, 1704-B-02, 1705-B-08, SB90-SGB-09, SB90-SGB-10

Field boring logs, prepared and maintained by Wang geologists, include lithological descriptions, visual-manual soil classifications (IDH Soil Classification System), results of Rimac and pocket penetrometer unconfined compressive strength tests, and results of Standard Penetration Tests (SPT), recorded as blows per 6 inches of penetration.

Groundwater observations were made in each boring during and at the completion of drilling operations. The borings were backfilled after completion, and the existing surface was restored to its original condition.

3.2 Laboratory Testing

The soil samples were tested in the laboratory for moisture content (AASHTO T-265). Atterberg limits (AASHTO T 89/T 90) and particle size (AASHTO T 88) analyses were performed to classify selected samples near the proposed roadway subgrade. Field visual descriptions of the soil samples were

verified in the laboratory. The soils were classified according to the IDH Soil Classification System. Laboratory test results are shown on the *Boring Logs* (Appendix A) and in the *Laboratory Test Results* (Appendix C).

4.0 RESULTS OF FIELD AND LABORATORY INVESTIGATIONS

Detailed descriptions of the soil conditions encountered during the subsurface investigation are presented on the attached *Boring Logs* (Appendix A) and on the *Boring Location Plans and Soil Profiles* (Appendix E). Please note that strata contact lines represent approximate boundaries between soil types. The actual transition between soil types in the field may be gradual in horizontal and vertical directions.

4.1 Surface Conditions

The proposed alignments will be constructed through areas with various surficial cover, including topsoil, pavement, and demolished structures. Topsoil thickness measured at various locations across the site range from 3 to 30 inches with an average of 9 inches. Topsoil thickness as observed in borings is summarized per alignments in Table 2a and 2b, along NB and SB, respectively. Alignments where borings were not drilled in areas with topsoil, are not shown in Tables 2a and 2b.

Table 2a: NB Summary of Topsoil Thickness

Alignment	Number of Measurements	Topsoil Thickness Range (inches)	Average Thickness (inches)
NB CD Road	20	3-30	9
EN Slip Ramp	6	3-15	8
Ramp EN	5	4-8	6
Jackson Entrance Ramp	5	4-30	12
Adams Entrance Ramp	2	4-5	5
Madison Exit Ramp	2	4-5	5

Table 2b: SB Summary of Topsoil Thickness

Alignment	Number of Measurements	Topsoil Thickness Range (inches)	Average Thickness (inches)
I-90/94 SB	3	4-6	5
Ramp SW	2	4	4
Jackson Exit Ramp	2	4	4

The borings were drilled mainly in the roadway lanes and shoulders. Some of the borings were drilled outside the paved areas, in spaces between the ramps or roadway slopes. The borings drilled in the existing roadway show various pavement structures consisting of asphalt, asphalt over concrete, concrete over asphalt, or just concrete. The pavement thickness as revealed by our investigation ranges from 2 to 24 inches with an average of 14 inches. The aggregate base consists of either crushed stone or gravelly sand and its thickness ranges from 4 to 48 inches. The existing pavement thicknesses are summarized in Tables 3a and 3b, along NB and SB, respectively.

Table 3a: NB Summary of Existing Pavement Thickness and Composition

Alignment	Total Number of Measurements (No)	Pavement Structure Thickness (inches)			Pavement Average Thickness (inches)
		Asphalt No ¹ /Range	Concrete No ¹ /Range	Total Pavement No ¹ /Range	
I-90/94 NB	81	63/2-18	68/4-18	81/4-24	14
Ramp NW	5	2/10	3/12	5/10-12	11
Roosevelt Entrance Ramp	4	1/10	3/12	4/10-12	12
Taylor Entrance Ramp	8	6/4	7/12-16	8/4-18	15
NB CD Road	39	35/3-18	34/6-18	39/3-24	14
Ramp WN	4	4/2-16	2/10	4/12-16	14
EN Slip Ramp	5	4/3-18	4/7-17	5/10-18	14

Alignment	Total Number of Measurements (No)	Pavement Structure Thickness (inches)			Pavement Average Thickness (inches)
		Asphalt No ¹ /Range	Concrete No ¹ /Range	Total Pavement No ¹ /Range	
Ramp EN	9	9/3-18	7/7-9	9/10-18	13
Jackson Entrance Ramp	7	7/3-6	7/6-10	7/12-15	14
Adams Entrance Ramp	11	11/4-18	10/7-18	11/12-24	16
Madison Exit Ramp	9	9/3-7	8/7-21	9/3-24	16
Washington Exit Ramp	7	7/4-12	6/7-14	7/12-18	14
Randolph Exit Ramp	3	3/2-5	2/7-12	3/2-16	10
Lake Exit Ramp	10	10/2-12	8/7-14	10/2-18	12

¹No = number of measurements along the alignment.

Table 3b: SB Summary of Existing Pavement Thickness and Composition

Alignment	Total Number of Measurements (No)	Pavement Structure Thickness (inches)			Pavement Average Thickness (inches)
		Asphalt No ¹ /Range	Concrete No ¹ /Range	Total Pavement No ¹ /Range	
I-90/94 SB	63	38/2-17	58/4-17	63/9-20	14
Ramp SW	11	6/3-6	11/8-14	11/8-18	13
Adams Exit Ramp	11	7/3-6	10/7-14	11/4-18	12
Jackson Exit Ramp	10	6/3-6	9/8-16	10/3-20	13
SB Access Road	6	5/2-12	5/8-14	7/9-14	12

¹No = number of measurements along the alignment.

4.2 Soil Conditions

In descending order, the general lithologic succession encountered beneath the pavement structure and topsoil includes: 1) man-made ground (fill); 2) medium stiff to hard silty clay; and 3) very soft to

medium stiff clay. Soils deeper than the very soft clay will not impact the roadway pavement design and are not discussed in this section but shown in the boring logs.

1) Man-made ground (fill)

Underneath the surface (pavement or topsoil), the borings encountered 1.25 to 20.0 feet of cohesive and granular fill consisting of either medium stiff to hard, brown and gray silty clay to clay loam or very loose to very dense, brown silty loam, loam, sand to gravelly sand. The cohesive fill has unconfined compressive strength (Q_u) values of 0.3 to 6.6 tsf with an average of 2.2 tsf. Moisture content (MC) tests indicate values between 8 and 25% with an average of 18%. Laboratory index testing performed on samples from cohesive fill shows liquid limit (L_L) values of 25 to 43% and plastic limit (P_L) values of 15% to 22%. According to the AASHTO soil classification, the subgrade soil belongs mainly to the A-6 group occasionally to A-7-6 group. The granular fill material has N-values measures between 0 and more than 50 blows/foot with an average of 18 blows/foot and MC values of 2 to 31% averaging 10%. Several borings drilled from recently improved ramps advanced through lightweight concrete fill that showed low SPT-values (1 to 4 blows/foot) and high moisture contents (48 to 74%), these values were excluded from the summary considered not to being relevant for the fill unit in its entirety. A summary of the fill properties, along each alignment, is shown in Tables 4a and 4b along I-90/94 NB and SB, respectively.

Table 4a: NB Summary of Existing Fill Properties

Alignment	Q_u	SPT N-values	Moisture Content	Liquid Limit	Plastic Limit
	Min-Max/Avg.	Min-Max/Avg.	Min-Max/Avg	Min-Max	Min-Max
	(tsf)	(blows/foot)	(%)	(%)	(%)
I-90/94 NB	0.3-6.6/2.0	2-61/17	3-33/11	29-43	15-22
Ramp NW	1.0-2.2/1.6	3-20/7	4-28/11	NA	NA
Roosevelt Entrance Ramp	1.0-1.9/1.5	3-13/6	7-26/11	NA	NA
Taylor Entrance Ramp	6.6/na	5-47/27	2-11/7	NA	NA
NB CD Road	0.3-6.6/2.3	1-58/13	2-31/15	32-34	17
Ramp WN	NA	6-26/12	6-23/15	NA	NA
EN Slip Ramp	1-4.5/2.8	3-58/16	2-31/18	NA	NA

Alignment	Q _u	SPT N-values	Moisture Content	Liquid Limit	Plastic Limit
	Min-Max/Avg.	Min-Max/Avg.	Min-Max/Avg	Min-Max	Min-Max
	(tsf)	(blows/foot)	(%)	(%)	(%)
Ramp EN	0.6-1.6/1.2	4-26/12	6-17/12	NA	NA
Jackson Entrance Ramp	0.6-2.7/2.1	1-13/6	5-20/14	NA	NA
Adams Entrance Ramp	0.9-3.5/1.9	3-61/18	3-28/11	NA	NA
Madison Exit Ramp	0.3-2.5/1.3	2-47/14	2-28/12	NA	NA
Washington Exit Ramp	0.5-2.3/1.1	4-22/12	3-24/11	NA	NA
Randolph Exit Ramp	0.5/na	3->50/20	3-18/11	NA	NA
Lake Exit Ramp	0.5-2.5/1.3	3->50/15	3-24/13	34	17

Table 4b: SB Summary of Existing Fill Properties

Alignment	Q _u	SPT N-values	Moisture Content	Liquid Limit	Plastic Limit
	Min-Max/Avg.	Min-Max/Avg.	Min-Max/Avg	Min-Max	Min-Max
	(tsf)	(blows/foot)	(%)	(%)	(%)
I-90/94 SB	0.6-5.2/2.0	3->50/18	3-33/11	25-43	15-22
Ramp SW	1.0-2.5/1.8	0->50/14	3-25/10	29	15
Adams Exit Ramp	1.8/na	0-38/12	3-20/10	NA	NA
Jackson Exit Ramp	1.0-1.6/1.4	0-45/14	3-25/9	NA	NA
SB Access Road	2.9-6.6/4.5	8-28/17	5-18/12	NA	NA

2) *Medium stiff to hard silty clay*

Beneath the fill, most of the borings advanced through about 2- to 10-foot thick of medium stiff to hard silty clay to silty clay loam with Q_u values of about 0.6 to 3.6 tsf, with an average of 1.6 tsf and MC values of 9 to 33% with an average of 21%. Laboratory index testing performed on samples from this

unit shows L_L values of 26 to 35% and P_L values of 15% to 19%. According to the AASHTO soil classification, the subgrade soil belongs mainly to the A-6 group. A summary of the unit properties along each alignment is shown in Tables 5a and 5b, along I-90/94 NB and SB, respectively.

Table 5a: NB Summary of Stiff Silty Clay Unit Properties

Alignment	Q_u	SPT N-values	Moisture Content	Liquid Limit	Plastic Limit
	Min-Max/Avg.	Min-Max/Avg.	Min-Max/Avg	Min-Max	Min-Max
	(tsf)	(blows/foot)	(%)	(%)	(%)
I-90/94 NB	0.6-3.28/1.4	1-10/6	9-33/20	26-35	13-18
Ramp NW	1.39	4	15	NA	NA
Roosevelt Entrance Ramp	NA	NA	NA	NA	NA
Taylor Entrance Ramp	0.7-2.4/1.2	5-9/7	17-29/22	26-30	13-14
NB CD Road	0.7-3.6/1.8	4-12/7	9-25/19	32	19
Ramp WN	NA	NA	NA	NA	NA
EN Slip Ramp	0.7-2.9/1.6	3-10/7	18-24/20	NA	NA
Ramp EN	NA	NA	NA	NA	NA
Jackson Entrance Ramp	1.2-1.6/1.4	6-8/7	9-22/17	NA	NA
Adams Entrance Ramp	2.6	13	20	NA	NA
Madison Exit Ramp	1.0-2.6/1.9	7-13/9	13-24/18	NA	NA
Washington Exit Ramp	3.4	8	17	NA	NA
Randolph Exit Ramp	1.6-2.3/2.0	5-8/6	23-26/25	NA	NA
Lake Exit Ramp	1.6-2.3/2.0	5-8/6	23-26/25	NA	NA

Table 5b: SB Summary of Stiff Silty Clay Unit Properties

Alignment	Q _u	SPT N-values	Moisture Content	Liquid Limit	Plastic Limit
	Min-Max/Avg. (tsf)	Min-Max/Avg. (blows/foot)	Min-Max/Avg (%)	Min-Max (%)	Min-Max (%)
I-90/94 SB	0.8-3.0/1.7	4-10/7	14-25/20	30-35	16-18
Ramp SW	1.1-2.5/1.7	3-9/6	20-25/22	NA	NA
Adams Exit Ramp	2.6	5	21	NA	NA
Jackson Exit Ramp	1.1-2.8/1.8	4-10/7	14-25/21	NA	NA
SB Access Road	1.2-1.6/1.4	6-10/8	18-20/19	31	17

3) *Very soft to medium stiff clay*

From elevations of 587 to 565 feet, the borings encountered up to 40 feet of very soft to medium stiff and rarely stiff, gray clay to silty clay occasionally silty clay loam. This unit has Q_u values (Rimac) of 0.03 to 1.0 tsf and rarely up to 1.8 tsf with an average of 0.4 tsf and MC values of 13 to 46% averaging 25%. Laboratory index testing performed on samples from this unit show L_L values of 28 to 53% and P_L values of 14 to 23%. According to the AASHTO soil classification, the subgrade soils belong mainly to the A-6 and A-7-6 groups. A summary of the unit properties along each alignment is shown in Tables 6a and 6b, along I-90/94 NB and SB, respectively.

Table 6a: NB Summary of Very Soft to Medium Stiff Clay Properties

Alignment	Q _u	SPT N-values	Moisture Content	Liquid Limit	Plastic Limit
	Min-Max/Avg. (tsf)	Min-Max/Avg. (blows/foot)	Min-Max/Avg (%)	Min-Max (%)	Min-Max (%)
I-90/94 NB	0.1-1.8/0.4	0-19/3	13-46/25	30-53	15-23
Ramp NW	0.1-1.6/0.5	0-8/3	15-36/26	35	15
Roosevelt Entrance Ramp	0.1-1.6/0.5	0-8/3	15-36/26	35	15
Taylor Entrance Ramp	0.2-1.2/0.4	0-12/4	16-35/25	33-37	15-17
NB CD Road	0.1-1.8/0.4	0-13/4	15-44/25	29-36	15-18

Alignment	Q _u	SPT N-values	Moisture Content	Liquid Limit	Plastic Limit
	Min-Max/Avg.	Min-Max/Avg.	Min-Max/Avg	Min-Max	Min-Max
	(tsf)	(blows/foot)	(%)	(%)	(%)
Ramp WN	0.2-0.8/0.4	1-15/4	13-28/24	35	15
EN Slip Ramp	0.1-1.0/0.4	1-8/4	16-29/24	32-36	17-18
Ramp EN	0.2-1.1/0.5	0-9/3	18-28/24	35	15
Jackson Entrance Ramp	0.2-1.7/0.4	0-10/4	14-36/24	32	17
Adams Entrance Ramp	0.1-1.0/0.4	0-17/3	15-37/25	34-37	16-19
Madison Exit Ramp	0.1-1.8/0.4	0-18/3	15-37/25	30-34	16-17
Washington Exit Ramp	0.1-1.0/0.3	2-11/4	20-28/25	NA	NA
Randolph Exit Ramp	0.1-0.8/0.3	2-9/3	17-32/25	NA	NA
Lake Exit Ramp	0.1-1.0/0.3	2-9/3	16/32/25	NA	NA

Table 6b: SB Summary of Very Soft to Medium Stiff Clay Properties

Alignment	Q _u	SPT N-values	Moisture Content	Liquid Limit	Plastic Limit
	Min-Max/Avg.	Min-Max/Avg.	Min-Max/Avg	Min-Max	Min-Max
	(tsf)	(blows/foot)	(%)	(%)	(%)
I-90/94 SB	0.1-1.8/0.4	0-23/3	13-46/25	34-53	15-23
Ramp SW	0.2-1.2/0.4	0-10/2	16-34/24	28-36	14-17
Adams Exit Ramp	0.2-0.9/0.4	0-10/3	18-34/25	42	19
Jackson Exit Ramp	0.2-1.2/0.4	0-6/2	16-30/24	36	17
SB Access Road	0.2-0.7/0.4	2-11/4	16-28/24	NA	NA

4.3 Groundwater Conditions

Groundwater was observed in 48 out of 200 borings along the alignments during drilling at elevations of 497.6 to 588.9 feet (2.5 to 89.0 feet bgs). After drilling, the groundwater was measured in 14 borings at elevations of 492.7 to 574.8 feet (2.5 to 90.0 feet bgs). In seven borings, groundwater was measured 24 to 120 hours after drilling completion, and its level was recorded at 500.9 to 577.0 feet elevations, or 2.0 and 77.0 feet bgs. Under pressure, groundwater was observed in granular layers within the diamicton and top of the bedrock. Because their depths the under pressure groundwater will not influence the pavement design.

During periods of precipitation, we anticipate that perched groundwater may be encountered, but otherwise the static water level is deep seated and will not impact the roadway or pavement design.

Within this project limits, Wang installed a monitoring well in Borehole DBT-VST-01 (PZ-AIS) at Station 6124+25 in the proposed stormwater detention area situated between I-90/94 NB and SB, south of the Circle interchange. The piezometer was set within Unit 3 the *very soft to medium stiff clay* between 5.0 and 45.5 feet bgs. The monitoring well showed an average water table elevation of 568.5 feet (about 10 feet bgs). Is known that *within the soft clay unit, possible thin lenses of saturated silt are prone to release water into excavated sections.*

5.0 ENGINEERING ANALYSIS AND RECOMMENDATIONS

Typical pavement section from the design drawings provided by AECOM and TranSystems (Appendix D) indicate the pavement will consist of Portland Cement Concrete (PCC) either continuously reinforced (CRC), jointed or not over stabilized hot-mix asphalt (HMA) base and 12 inches of IDOT aggregate subgrade improvement (ASI). Temporary pavement will consist of either HMA or PCC over subbase granular material. The analyses address pavement design along the alignments listed in Section 1.0.

Cross sections show the alignments sharing the embankment and roadway sections. Within the shared sections, the treatment will refer to the entire extent of common subgrade or foundation. When finished, the ramps will include one to three lanes and shoulders on both sides and I-90/94 will include 4 to 6 lanes and shoulders on both sides. Typical pavement sections are attached in Appendix D.

5.1 Site Preparation and Earthwork

It is recommended that the existing topsoil, pavements, and construction debris be stripped within the limits of the proposed pavements, embankment fill, and grading. For estimating purposes, the

average topsoil thickness to be stripped from the surface is 9 inches. According to IDOT District One policy, a shrinkage factor of 15% should be used to measure borrowed and furnished excavation quantities.

The exposed subgrade throughout the extent of the improvement will consist of very soft to medium stiff clay, stiff to hard silty clay, and granular or cohesive fill. ***It should be anticipated that very soft to medium stiff clay will fail attempts to proofrolling due to excessive deflection and rutting;*** therefore, additional subgrade treatment should be provided, as discussed in Section 5.2.

5.2 Subgrade Treatment and Recommendations

Based on the result of our subsurface investigation we expect the subgrade will consist of stiff to hard silty clay fill, stiff to hard silty clay diamicton, and very soft to medium stiff clay. Tables 7a and 7b summarize the subgrade soil conditions below the proposed pavement including the 12 inches of aggregate subgrade improvement (ASI) and our recommendations for subgrade improvement.

Table 7a: NB Summary of Subgrade Soil Condition and Estimated Undercut

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) <i>Note 1</i>
	Stations	Width		
I-90/94 NB <i>Note 2</i>	6100+00 to 6175+08	full width	<i>Note 2</i>	<i>Note 2</i>
Ramp NW	1803+00 to 1805+50	full width	Very soft to medium stiff clay; Qu>1.0 tsf (Unit 3); Moist to wet	24
Roosevelt Entrance Ramp	7250+57 to 7252+00	full width	Very soft to medium stiff clay; Qu>1.0 tsf (Unit 3); moist to wet	24
NB CD Road	6320+00 to 6338+50	full width	571.7 to 582.2 feet / Very soft to soft clay (Unit 3) Qu=0.2-0.8 tsf ; MC=21-29%	24
	6333+90 to 6334+10 <i>Note 3</i>	0 to 15RT	60" RCP combined sewer crossing	0
	6338+50 to 6340+70	east half	Very soft to med stiff clay (Unit 3) Qu=0.2-0.6 tsf ; N=1-5bw/ft; MC=20-30%; moist to wet	24

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) <i>Note 1</i>
	Stations	Width		
	6340+70 to 6347+85	full width	Very soft to med stiff clay (Unit 3) Qu=0.2-0.6 tsf ; N=1-5blw/ft; MC=20-30%; moist to wet	24
	6347+85 to 6348+15 <i>Note 4</i>	full width	Monroe Siphon	9
	6348+15 to 6355+00	East half	Very soft to med stiff clay (Unit 3) Qu=0.1-0.7 tsf ; N=0-5blw/ft; MC=20-30%; moist to wet	24
Ramp EN	1617+70 to 1624+00	full width	Very soft to med stiff clay (Unit 3) Qu=0.3-0.5 tsf ; N=2-5blw/ft; MC=16-25%; moist to wet	24 <i>Note 5</i>
EN Slip Ramp	6502+30 to 6505+76	full width	Very soft to med stiff clay (Unit 3) Qu=0.3-0.8 tsf ; N=1-5blw/ft; MC=19-25%; moist to wet	24 <i>Note 6</i>
Adams Entrance Ramp	8342+00 to 8343+65 <i>Note 7</i>	full width	Settlement >1inch	LCCF*/ see SGR for 016-1701, 016-1817 and 016-1818
	8343+65 to 8346+09	full width	Very soft to med stiff clay (Unit 3) Qu=0.5-0.8tsf ; N=3-6blw/ft; MC=18-24%; moist to wet	24
Madison Exit Ramp	8540+00 to 8546+78 <i>Note 8</i>	full width	Very soft to med stiff clay (Unit 3) Qu=0.1-0.8tsf ; N=3-6blw/ft; MC=18-30%; moist to wet	24
	8546+78 to 8548+87 <i>Note 7</i>	full width	Very soft to med stiff clay (Unit 3) Qu=0.1-0.8tsf ; N=3-6blw/ft; MC=18-30%; moist to wet	LCCF*/ see SGR for 016-1820
Washington Exit Ramp	8680+00 to 8682+70	full width	Very soft to med stiff clay (Unit 3) Qu=0.2-0.6 tsf ; N=1-6blw/ft; MC=21-28%; moist to wet	24
	8682+70 to 8684+51 <i>Note 7</i>	full width	Settlement >1inch	LCCF*/ see SGR for SN 016-1803
Randolph Exit Ramp	8743+30 to 8744+00	full width	Very soft to med stiff clay (Unit 3) Qu=0.2-0.3 tsf ; N=2-3blw/ft; MC=26-27%; moist to wet	24

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) <i>Note 1</i>
	Stations	Width		
Lake Exit Ramp	8840+00 to 8842+00	full width	Very soft to med stiff clay (Unit 3) Qu=0.2-0.4 tsf ; N=0-6blw/ft; MC=21-31; moist to wet	24
	8842+76 to 8842+78 <i>Note 9</i>	5 LT to 5RT	existing CDWM (12" WM)	0
	8845+00 to 8847+50	5LT to 5RT	Very soft to med stiff clay (Unit 3) Qu>1tsf ; moist to wet	24

Table 7b: SB Summary of Subgrade Soil Condition and Estimated Undercut

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) <i>Note 1</i>
	Stations	Width		
I-90/94 SB	6206+50 to 6209+50	0 to 28RT	Very soft to med stiff clay (Unit 3) Qu=0.3-0.6 tsf ; N=1-5bw/ft; MC=18-26%; moist to wet	24
	6211+50 to 6213+50	~20RT to 30RT	Very soft to med stiff clay (Unit 3) Qu=0.2-0.4 tsf ; N=1-5bw/ft; MC=21-27%; moist to wet	24
	6215+00 to 6217+00	0 to 40LT	Very soft to med stiff clay (Unit 3) Qu=0.5-0.9 tsf ; N=4-5bw/ft; MC=17-24%; moist to wet	24
	6220+25 to 6223+25	~0 to 35RT	Very soft to med stiff clay (Unit 3) Qu=0.4-0.5 tsf ; N=3-4bw/ft; MC=22-25%; moist to wet	24
	6224+48 to 6225+07 <i>Note 10</i>	12 LT to 0 0 to 34 RT	CTA Tunnel	0 SN 016-D006
	6225+20 to 6228+50	10RT to 40RT	Very soft to med stiff clay (Unit 3) Qu=0.2-0.7 tsf ; N=2-4bw/ft; MC=23-26%; moist to wet	24

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) <i>Note 1</i>
	Stations	Width		
	6230+70 to 6230+85 <i>Note 11</i>	34LT to 43LT	Cermak Pumping Station WM	0
	6232+24 to 6232+40 <i>Note 12</i>	34LT to 42LT	Cermak Pumping Station WM	0
	6238+25 to 6239+75	20RT to 75 RT	Very soft to med stiff clay (Unit 3) Qu=0.2-0.7 tsf ; N=2-4bw/ft; MC=23-26%; moist to wet	24
	6239+75 to 6242+50	20Rt to 75RT 20LT to 45LT	Very soft to med stiff clay (Unit 3) Qu=0.5-0.9 tsf ; N=2-5bw/ft; MC=19-23%; moist to wet	24
	6242+50 to 6247+75	20LT to 45LT	Very soft to med stiff clay (Unit 3) Qu=0.3-0.9 tsf ; N=3-4bw/ft; MC=18-28%; moist to wet	24
	6247+75 to 6252+25	~50RT to 60RT	Very soft to med stiff clay (Unit 3) Qu=0.3-0.9 tsf ; N=3-4bw/ft; MC=18-28%; moist to wet	24
Ramp SW <i>Note 13</i>	1304+50 to 1305+40	10 LT to 24 LT	Very soft to med stiff clay (Unit 3) Qu=0.2-0.4 tsf ; N=0-5bw/ft; MC=21-27%; moist to wet	24
	1309+50 to 1315+00.47	full width	Very soft to med stiff clay (Unit 3) Qu=0.1-0.4 tsf ; N=3-5bw/ft; MC=23-26%; moist to wet	24
Adams Exit Ramp	8382+50 to 8382+80	full width	Very soft to med stiff clay (Unit 3) Qu=0.1-0.4 tsf ; N=3-5bw/ft; MC=23-26%; moist to wet	24
	~8382+80 to 8383+90 <i>Note 14</i>	full width	at existing Monroe Siphon	0
Jackson Exit Ramp	8280+00 to 8282+00	full width	Very soft to med stiff clay (Unit 3) Qu=0.1-0.2 tsf ; N=0-1blw/ft; MC=20-25%; moist to wet	24

Alignment	Limits of Subgrade Treatment		Subgrade Soil Type and Properties	Estimated Undercut Depth (in) <i>Note 1</i>
	Stations	Width		
	8282+80 to 8284+50	full width	Very soft to med stiff clay (Unit 3) Qu=0.2-0.5 tsf ; N=0-4blw/ft; MC=19-26%; moist to wet	24
SB Access Road	20+00 to 26+17	full width	Very soft to med stiff clay (Unit 3) Qu=<0.6 tsf ; N=<6 blw/ft; moist to wet	24

Notes:

1. *Include the 12" ASI as part of pavement design; undercut is measured from the bottom of 12" ASI;*
2. *Subgrade along I-90/94 NB show good conditions and no treatment necessary except for areas crossing over existing medians and between existing roads and the need for subgrade treatment should be determined in the field during construction;*
3. *No subgrade undercut at the 60" combined sewer; geogrid could be considered below the ASI and /or structural slab could be considered to cross the CS;*
4. *9" undercut with geogrid reinforcement as per Project Special Provisions for Geotechnical Reinforcement (8/1/2018);*
5. *Between Stations 1617+70 and 1620+00, the extent and/or need for subgrade treatment should be determined in the field during construction;*
6. *Between Station 6504+00 to 6505+00 subgrade show good conditions and no treatment necessary for west half; the extent and need for subgrade treatment should be determined in the field during construction;*
7. *IDOT District One Class III Lightweight Cellular Concrete Fill (LCCF) for recommendation see SGRs;*
8. *Along Wall 30 (016-1819) 9" to 12" undercut with geogrid reinforcement as per Project Special Provisions for Geotechnical Reinforcement (8/1/2018);*
9. *No need for subgrade undercut at the existing CDWM; geogrid reinforcement could be considered below the ASI;*
10. *No subgrade improvement at CTA tunnel; structure slab could be constructed for the pavement crossing the CTA tunnel;*
11. *No subgrade improvement at Cermak Pumping Station WM crossing;*
12. *No subgrade improvement at Cermak Pumping Station WM crossing;*
13. *Along Ramp SW, the median between the existing roadway pavement will be crossed by new*

pavement and the need for subgrade treatment should be determined in the field during construction;

14. No need for subgrade improvement at the 60" Monroe Siphon crossing; geogrid could be considered below the ASI.

To reduce the 24 inches of undercut, the following geosynthetics reinforced aggregate platform could be considered.

Recommendations for the reinforced aggregate platform

- 1. A geotextile fabric should be placed at the base of the undercut;*
- 2. The 24 inches of undercut treatment, can be reduced to 12 inches of undercut below the traffic lanes and to 9 inches of undercut below shoulders near the walls by the placing of bi-axial or tri-axial geogrid. **The geogrid could be used within wall limits and reduce the undercut thickness to not interfere with the walls structural design.** The geogrid is designed specifically for the proposed average daily traffic volume, design life of the pavement, number of proposed axels, and axel loads. See Project Special Provisions for Geotechnical Reinforcement (08/01/2018);*
- 3. Special care will be required in compacting embankment next to the MSE wall panels. Suitable hand operated compacting equipment will be required.*

The geotextile fabric should be placed at the base of all undercuts for ground separation according to Section 210 (2016). The improved subgrade should be in accordance with the Bureau of Design and Environment special provision, *Aggregate Subgrade Improvement*.

5.3 Subgrade Support Rating

Laboratory testing on the subgrade soils shows a Subgrade Support Rating (SSR) of POOR to FAIR. The pavement should be design based on SSR of POOR or on an IBR of 2, as per IDOT correlation to the A-7-6 soil classification encountered during the investigation (IDOT, 2015).

5.4 Roadway Drainage

The proposed subgrade and pavement should have proper surface grading to remove water accumulations and prevent the pooling of water. The clayey subgrade, encountered immediately beneath the proposed roadway pavement, have high clay and silt contents and will exhibit poor drainage characteristics. Although the soils are not frost susceptible, the installation of six-inch diameter transverse underdrains at the low points in the proposed profile and at 300-foot intervals between is recommend to ensure the long-term performance of the pavement. The underdrains should be installed at a depth immediately below the base of improved subgrade elevation and should not be wrapped in filter fabric. The underdrains should tie into the storm water drainage

system, and should be installed per Article 601 in the IDOT Standard Specifications and consist of Type 2 underdrains (Adopted January 1, 2016).

5.5 Embankment Cuts

Existing embankments and slopes along I-90/94 improvements will be cut as part of the widening and realignment of the roadway section. To support the proposed cuts, several retaining walls will be constructed. Tables 8a and 8b, summarize the structures along the proposed alignments for I-90/94 NB and SB, respectively. The retaining walls were addressed in separate structure geotechnical reports.

Table 8a: NB Summary of Structures

Alignment	Wall Number	Structure Number	Retained Roadway Section
		016-XXXX	
Taylor Entrance Ramp	1	1720	Ramp East side
NB C-D Rd	22A, 22B, 23, 24	Z044, Z045, 1814, Z016	Ramp East side
Ramp WN	46	1833	North approach embankment
Jackson Entrance Ramp	25, 26	1702	Ramp embankment
Adams Entrance Ramp	27, 28	1701	Ramp embankment
Madison Exit Ramp	30, 31	1819, 1820	Ramp East and West side
Washington Exit Ramp	33	1821	Ramp East and West side
Randolph Exit Ramp	52	Z051	Ramp East side

Table 8b: SB Summary of Structures

Alignment	Wall Number	Structure Number	Approximate Location
		016-XXXX	
Adams Exit Ramp	36	1825	Ramp East side
Jackson Exit Ramp	8, 37	1727, 1826	Ramp's East and West side

5.5.1 Settlement

Some of the approach roadway embankments are retained on each side by walls. By using regular IDOT fill (unit weight of 125 pcf), the embankment will undergo more than 1-inch settlement within the highest embankment section. The treatment recommendations in Table 7 will reduce the settlement to 1 inch or less. The MSE retaining walls are designed with IDOT District One Class III LCCF or Class I LCCF as applies, and sometimes with ground improvement to satisfy the settlement criterion for the roadway.

5.5.2 Global Stability

In general the slopes along some of the roadway sections will be graded from 1:3 to 1:6 (V:H). Walls retain most of the ramps embankments. We estimate the slopes outside the walls meet the IDOT required minimum FOS of 1.5 where fill and 1.7 were in cut.

Along NB CD Road slope stability analyses of the cut side slope at Station 6324+00, where the maximum cut is about 20 feet and sloped at 1:3 (V:H), showing calculated minimum factor of safety (FOS) is 1.76 greater than the minimum required by IDOT of 1.7 for cut sections (Exhibit 5).

6.0 CONSTRUCTION CONSIDERATIONS

6.1 Excavation, Dewatering, and Utilities

Excavations should be performed in accordance with local, State, and federal regulations. The potential effect of ground movements upon nearby roadways and utilities should be considered during construction. Excavations should be sloped at no greater than 1:2 (V:H) if steeper slopes are elected by contractors, each location needs to be analyzed on an individual basis. Excavations required to reach the base elevations of the retaining walls, as well as for undercutting, may require dewatering. Groundwater is known to be present within the soft clay (Unit 3) and in granular lenses encountered throughout. The Contractor should ensure proper surface grading to prevent the pooling of run-off

into open excavations. Any water allowed to enter excavations should immediately be removed via sump pump. For the sewers and drainage excavation established in soft clay, Contractor should place 12 inches of aggregate and geofabric at the base.

6.2 Filling and Backfilling

General fill used as embankment material should be structural fill except as noted in Section 5.2. Pre-approved, compacted, cohesive or granular soil conforming to Section 204, *Borrow and Furnished Excavation* would be acceptable as structural fill (IDOT 2016). The fill material should be free of organic matter and debris and should be placed in lifts and compacted in accordance to Section 205, *Embankment*. The Embankment construction should meet the requirements of the current District One *Embankment I* Special Provisions. The existing fill material excavated from the embankments may be reused elsewhere if it conforms to the following criteria: a) L_L less than 50%; b) plasticity index less than 20%; c) maximum dry density greater than 90 pcf according to AASHTO T 99; and d) organic content less than 10%.

6.3 Earthwork Operations

The required earthwork can be accomplished with conventional construction equipment. Moisture and traffic will cause deterioration of exposed subgrade soils. Precautions should be taken by the contractor to prevent water erosion of the exposed subgrade. A compacted subgrade will minimize water runoff erosion.

Earth moving operations should be scheduled to not coincide with excessive cold or wet weather (early spring, late fall or winter). Any soil allowed to freeze or soften due to the standing water should be removed. Wet weather can cause problems with subgrade compaction.

It is recommended that an experienced geotechnical engineer be retained to inspect the exposed subgrade, monitor earthwork operations, and provide material inspection services during the construction phase of this project.

7.0 QUALIFICATIONS

The analysis and recommendations submitted in this report are based upon the data obtained from the borings drilled at the locations shown on the boring logs and in Appendix E. This report does not reflect any variations that may occur between the borings or elsewhere on the site, variations whose nature and extent may not become evident until the course of construction. In the event that any changes in the design and/or location of the roadway are planned, we should be timely informed so that our recommendations can be adjusted accordingly.

It has been a pleasure to assist AECOM and the Illinois Department of Transportation on this project. Please call if there are any questions, or if we can be of further service.

Respectfully Submitted,

WANG ENGINEERING, INC.

Cornelia L. Marin, P.G.
Senior Engineering Geologist

Corina T. Farez, P.E., P.G.
Project Manager

REFERENCES

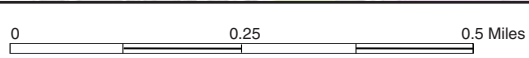
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EXHIBITS

1. Site Location Map
2. Site and Regional Geology
3. I-90/94 and Connecting Ramps Plan
4. Subgrade Support Rating
5. Slope Stability NB CD Road



PROJECT LOCATION
 Sec. 9, 16, 17, 20 and 21
 of T 39N, R 14E of 3rd PM



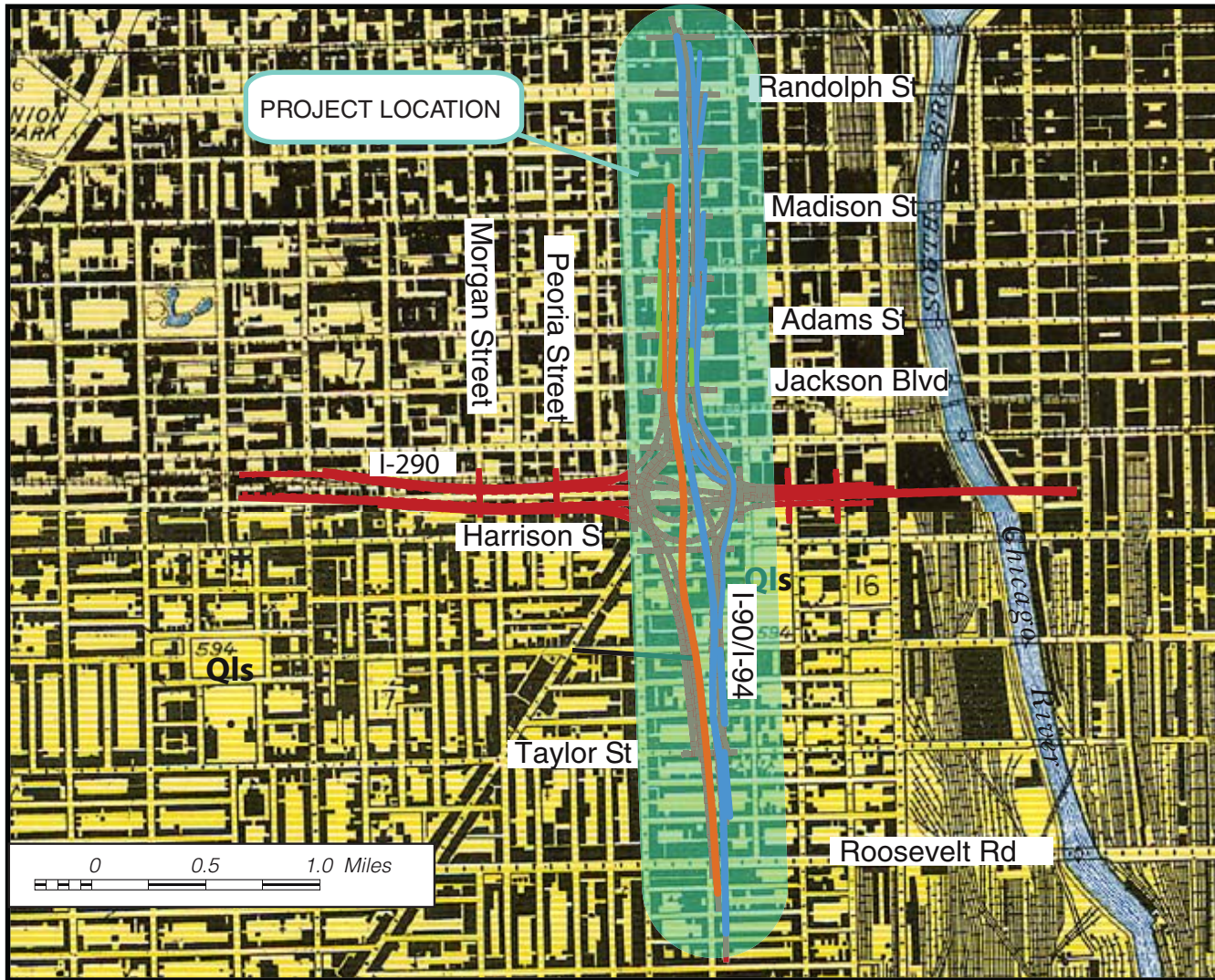
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- Contract 62A77 Alignments(
 SB I-90/94, Ramp SW, Adams Exit Ramp, Jackson Exit Ramp, SB Access Rd)
- Contract 60X94 Alignments
 (Jackson Entrance Ramp, Jackson Exit Ramp, Adams Entrance Ramp, Adams Exit Ramp)

SITE LOCATION MAP: JANE BYRNE INTERCHANGE CONTRACTS
 (62A76, 62A77, AND 60X94), COOK COUNTY, ILLINOIS

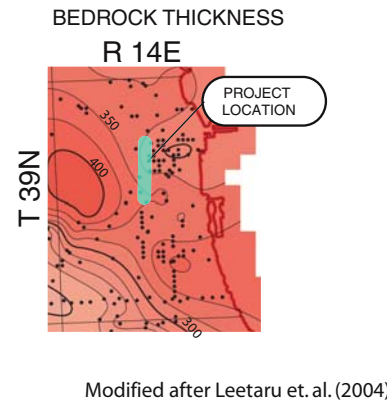
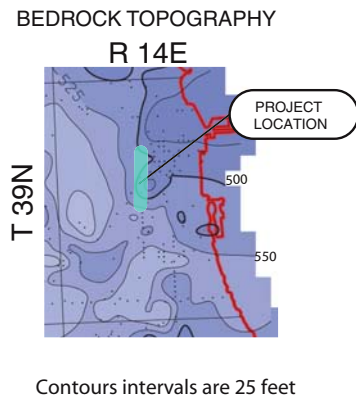
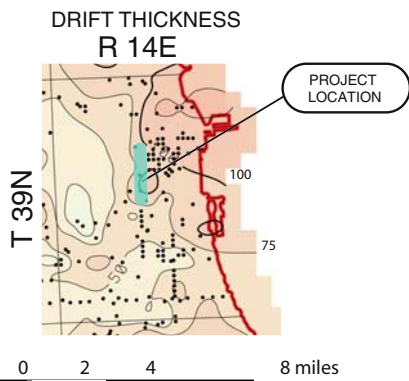
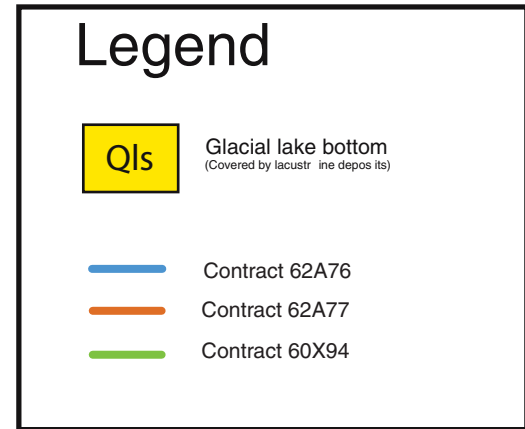
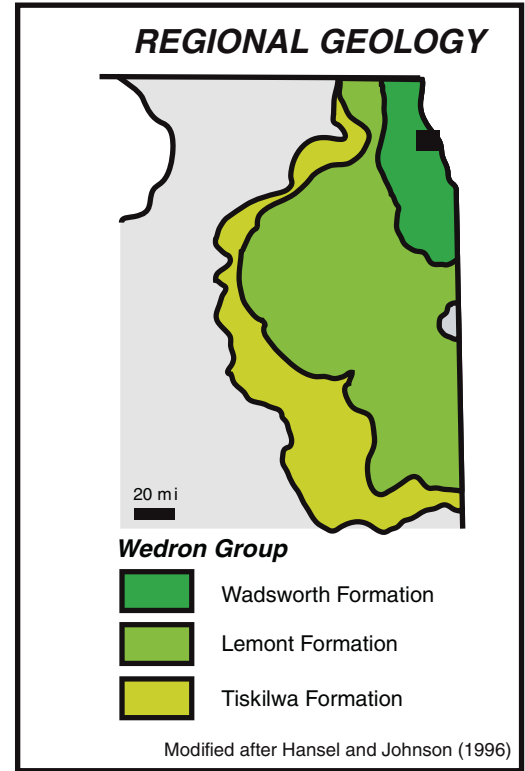
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	FOR AECOM	

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Modified after Bretz (1926)



SITE AND REGIONAL GEOLOGY: JANE BYRNE INTERCHANGE, I-90/94 CONTRACTS 62A76, 62A77, AND 60X94, COOK COUNTY, ILLINOIS

SCALE: GRAPHICAL

EXHIBIT 2

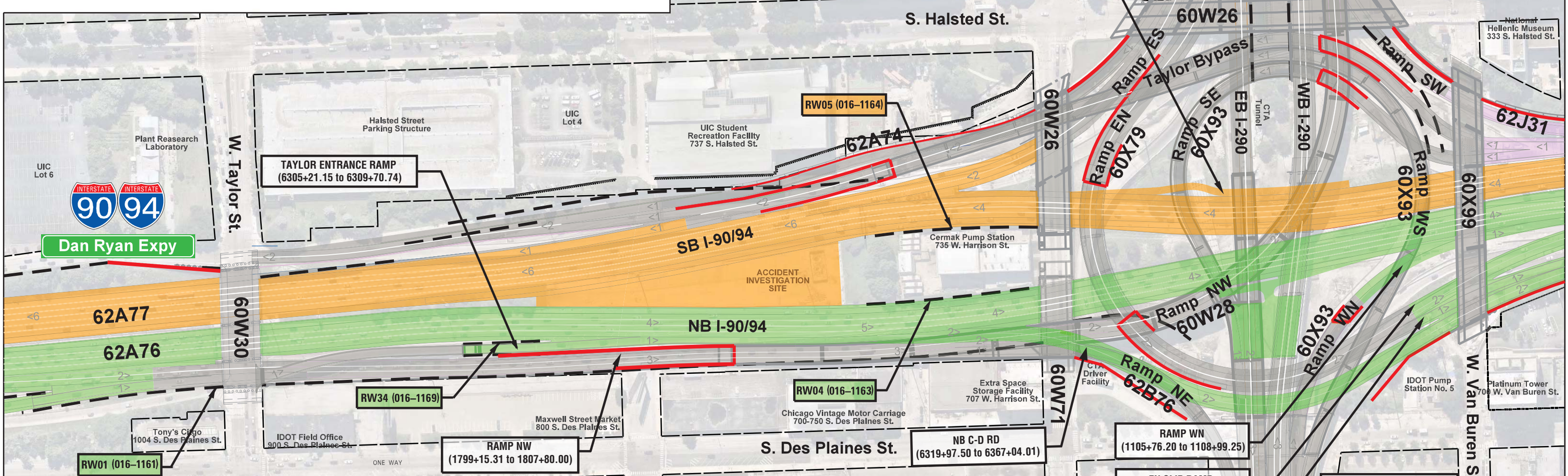
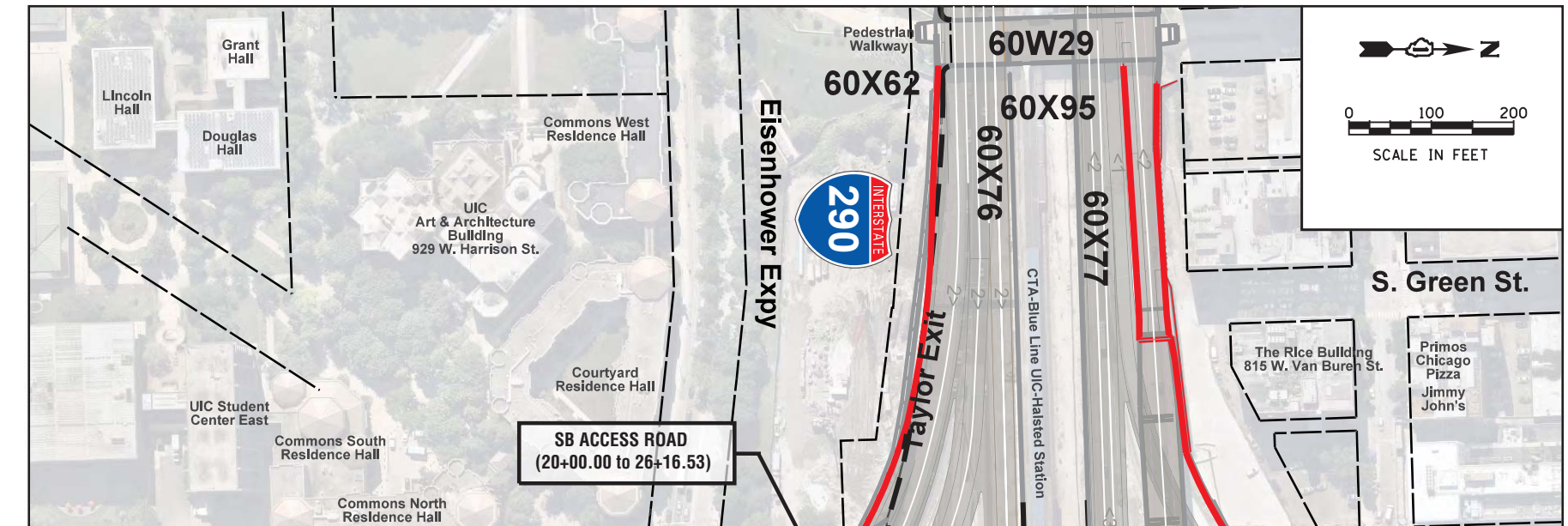
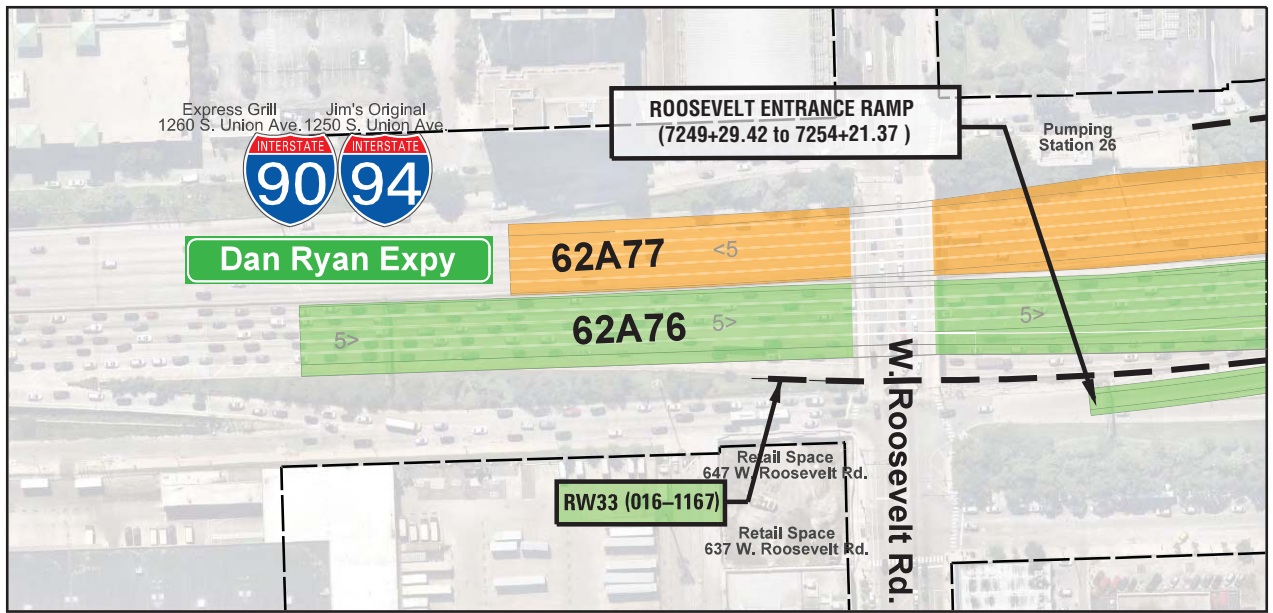
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JACKSON BLVD (60X94)
NB I-90/94 (62A76)
SB I-90/94 (62A77)
ADVANCED SB I-90/94 (62J31)

SHEET 1 OF 2

AECOM **TranSystems**

June 5, 2019

- 62A76 NB I-90/94 PAVEMENT RECONSTRUCTION
- 62A76 NB I-90/94 PAVEMENT RESURFACING
- 62A77 SB I-90/94 PAVEMENT RECONSTRUCTION
- 62A77 SB I-90/94 PAVEMENT RESURFACING
- 60X94 JACKSON BOULEVARD BRIDGE
- 60X94 ADAMS STREET BRIDGE
- 62J31 ADVANCED SB I-90/94
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL

SITE LOCATION PLAN: JANE BYRNE INTERCHANGE CONTRACTS
(62A76, 62A77, AND 60X94) COOK COUNTY, ILLINOIS

SCALE: GRAPHICAL

EXHIBIT 3-1

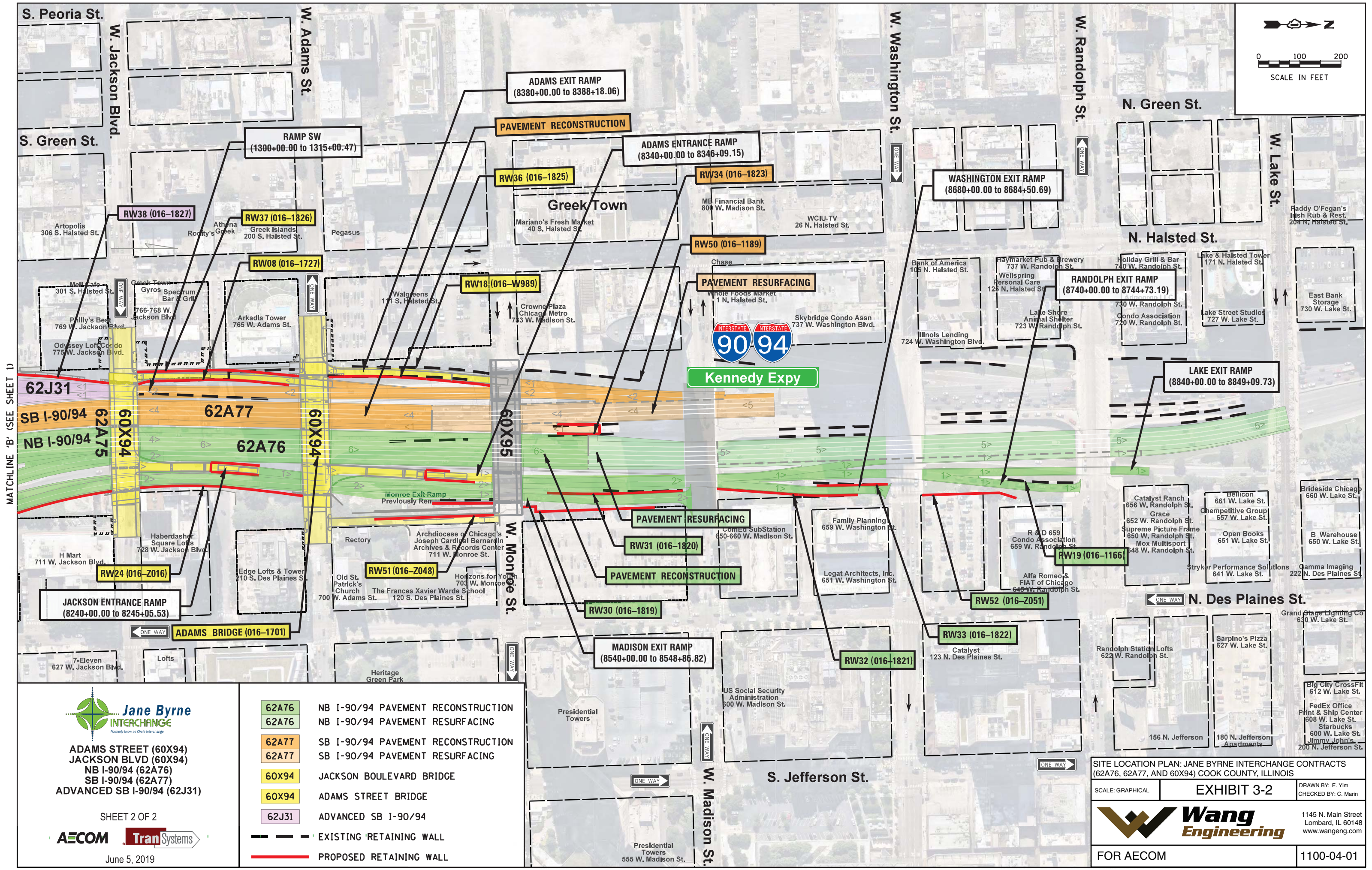
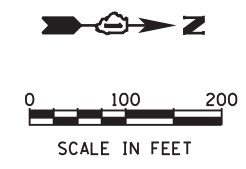
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CHECKED BY: C. Marin

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MATCHLINE 'B' (SEE SHEET 1)

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JACKSON BLVD (60X94)
NB I-90/94 (62A76)
SB I-90/94 (62A77)
ADVANCED SB I-90/94 (62J31)

- 62A76 NB I-90/94 PAVEMENT RECONSTRUCTION
- 62A76 NB I-90/94 PAVEMENT RESURFACING
- 62A77 SB I-90/94 PAVEMENT RECONSTRUCTION
- 62A77 SB I-90/94 PAVEMENT RESURFACING
- 60X94 JACKSON BOULEVARD BRIDGE
- 60X94 ADAMS STREET BRIDGE
- 62J31 ADVANCED SB I-90/94
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL

SITE LOCATION PLAN: JANE BYRNE INTERCHANGE CONTRACTS
(62A76, 62A77, AND 60X94) COOK COUNTY, ILLINOIS

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CHECKED BY: C. Marin

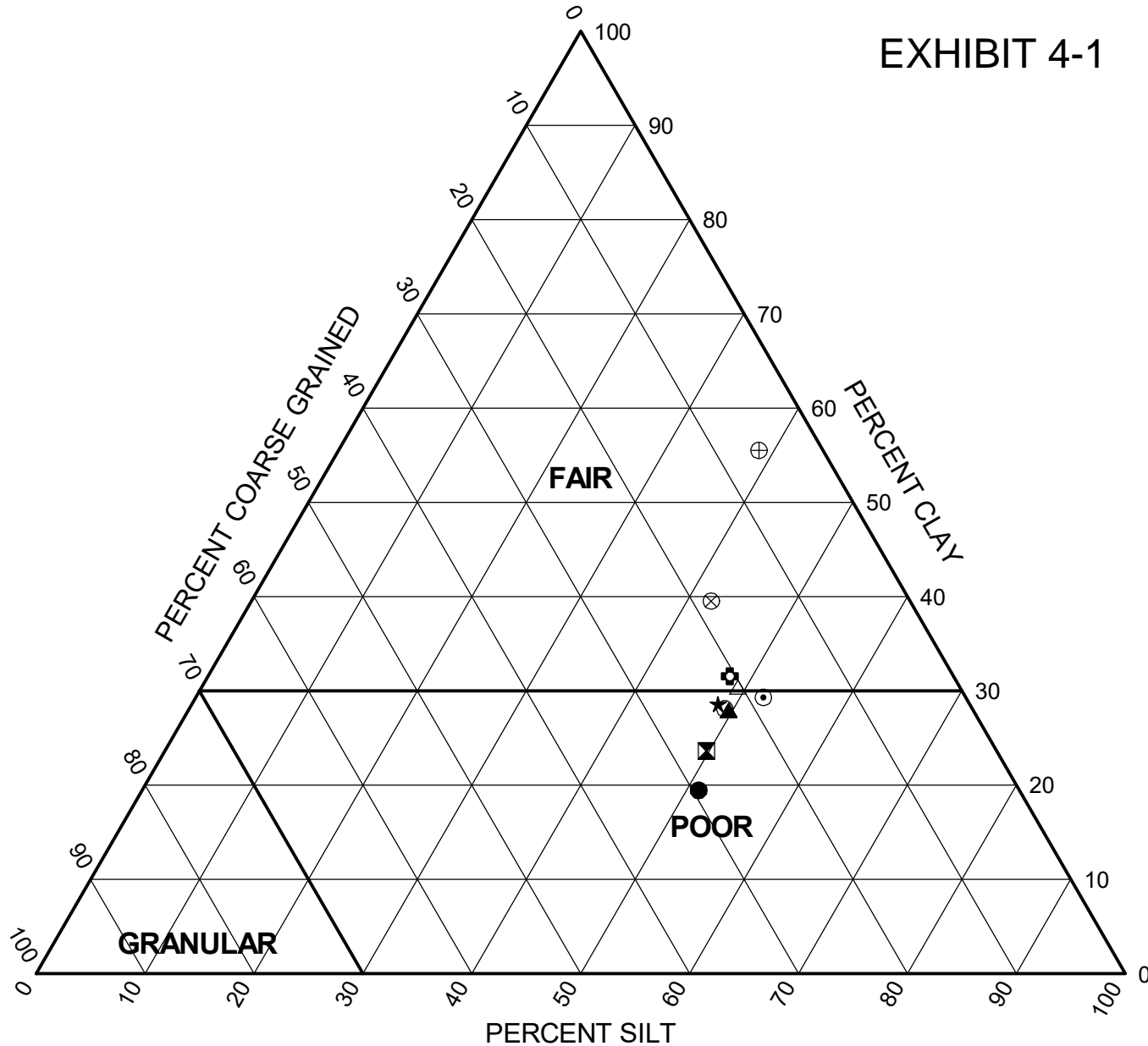
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1100-04-01

EXHIBIT 4-1



Sample	Depth (ft)	Coarse (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	RATING
● 02-RWB-03#3	6.0	29.4	51.1	19.5	Silty Clay Loam	A-6 (9)	POOR
⊠ 02-RWB-06#3	6.0	26.6	49.7	23.6	Silty Clay Loam	A-6 (7)	POOR
▲ 1704-B-04#3	6.0	22.4	49.6	28.0	Silty Clay Loam	A-6 (10)	POOR
★ 1705-B-05A#1	10.0	23.1	48.3	28.6	Silty Clay Loam	A-6 (9)	POOR
⊙ 1710-B-03#2	3.5	18.6	52.1	29.3	Silty Clay Loam	A-6 (10)	POOR
⊕ 1710-B-04#5	11.0	20.5	47.9	31.6	Clay	A-6 (11)	FAIR
○ 30-RWB-03#1	13.5	22.7	49.2	28.1	Silty Clay Loam	A-6 (10)	POOR
△ 32-RWB-03B#2	18.5	20.4	49.2	30.4	Silty Clay	A-6 (12)	FAIR
⊗ 33-RWB-02#9	21.0	18.3	42.2	39.5	Clay	A-6 (17)	FAIR
⊕ BFB-02#2	3.5	5.9	38.6	55.5	Clay	A-7-6 (24)	FAIR

WEI SSR 11000401.GPJ.WANGENG.GDT 7/25/19

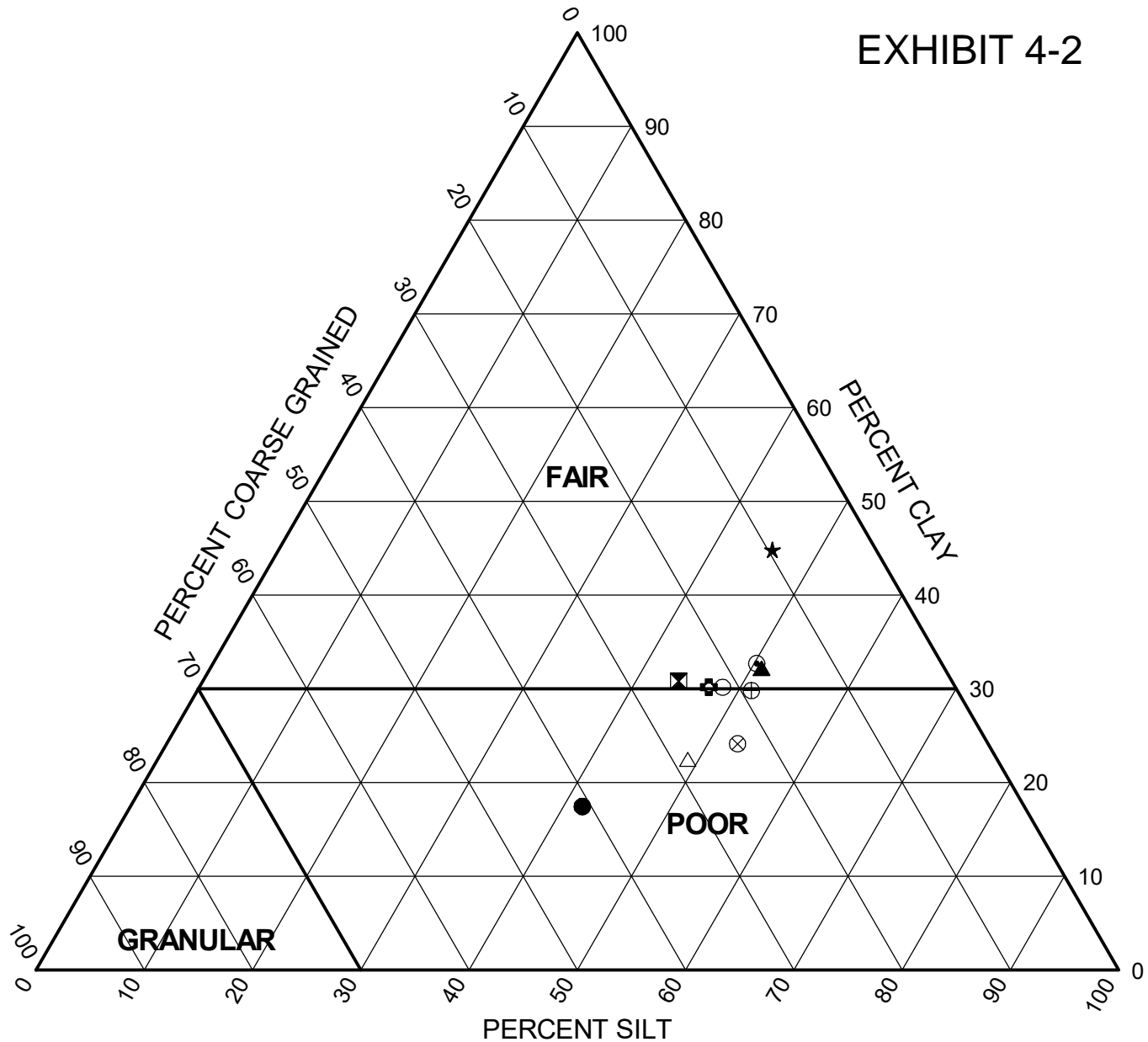


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Subgrade Support Rating Chart

Project: Jane Byrne Interchange
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01

EXHIBIT 4-2



Sample	Depth (ft)	Coarse (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	RATING
● BFB-04#2	3.5	40.8	41.7	17.5	Clay Loam	A-4 (2)	POOR
◻ NB90-SGB-03#2	3.5	25.2	43.9	30.8	Clay	A-7-6 (15)	FAIR
▲ NB90-SGB-07#2	3.5	16.9	50.9	32.2	Silty Clay	A-6 (12)	FAIR
★ NB90-SGB-10#3	5.0	9.6	45.6	44.8	Clay	A-7-6 (22)	FAIR
⊙ NB90-SGB-13#2	3.0	17.1	50.2	32.7	Silty Clay	A-6 (13)	FAIR
⊕ NB90-SGB-16B#2	3.0	22.8	47.1	30.2	Clay	A-6 (12)	FAIR
⊖ NB90-SGB-21#2	3.0	21.5	48.3	30.2	Clay	A-6 (12)	FAIR
△ NB90-SGB-23#2	3.0	28.6	49.0	22.5	Silty Clay Loam	A-6 (9)	POOR
⊗ SB90-SGB-02#2	3.0	23.1	52.7	24.1	Silty Clay Loam	A-6 (9)	POOR
⊙ SB90-SGB-06#2	3.5	19.0	51.2	29.8	Silty Clay	A-6 (11)	POOR

WEI SSR 11000401.GPJ.WANGENG.GDT 7/25/19

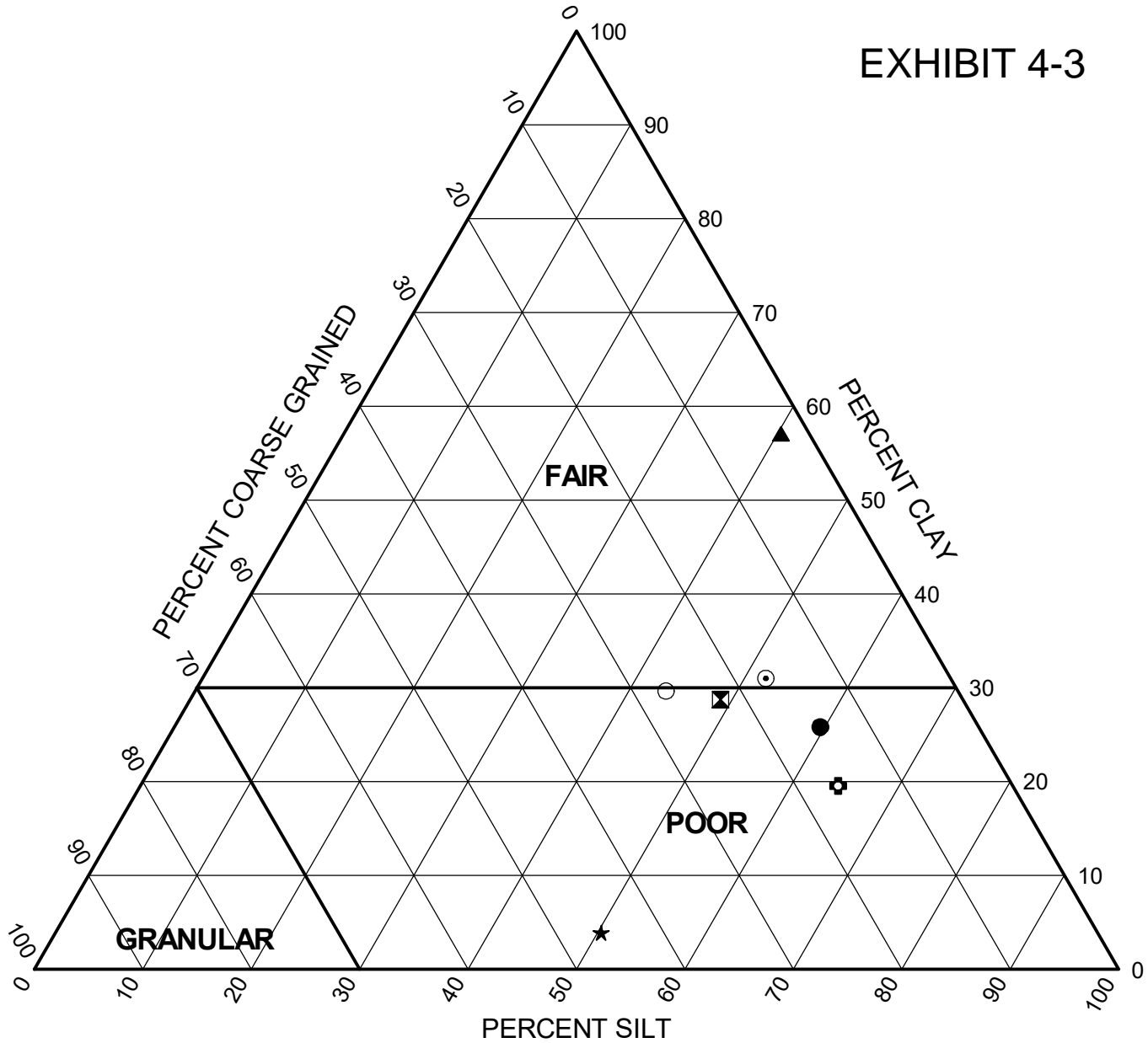


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Subgrade Support Rating Chart

Project: Jane Byrne Interchange
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01

EXHIBIT 4-3



Sample	Depth (ft)	Coarse (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	RATING
● B90-SGB-10#2	3.0	14.6	59.6	25.8	Silty Clay Loam	A-6 (11)	POOR
▣ B90-SGB-15#2	3.0	22.4	48.9	28.7	Silty Clay Loam	A-6 (9)	POOR
▲ B90-SGB-18#3	5.0	2.6	40.3	57.1	Clay	A-7-6 (33)	FAIR
★ B90-SGB-20#	3.0	45.8	50.3	3.9	Silty Loam	A-4 (0)	POOR
◎ B90-SGB-22#1	1.0	17.0	51.9	31.0	Silty Clay	A-6 (11)	FAIR
⊕ B90-SGB-24#2	3.5	16.1	64.3	19.6	Silty Clay Loam	A-6 (8)	POOR
○ 2051-RWB-04#7	15.0	26.9	43.4	29.7	Clay	A-6 (9)	POOR

WEI SSR 11000401.GPJ.WANGENG.GDT 7/25/19

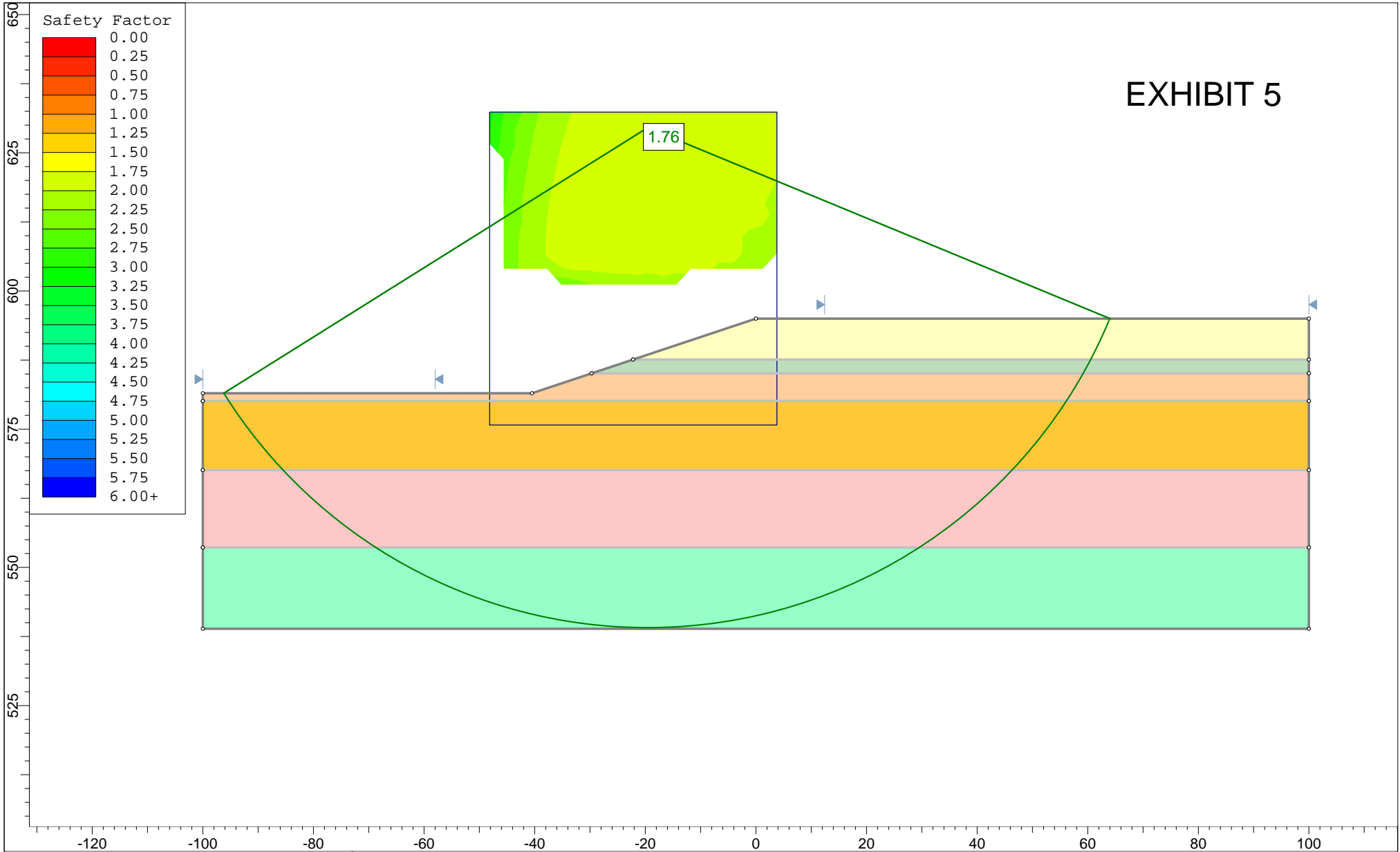



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Subgrade Support Rating Chart

Project: Jane Byrne Interchange
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01

EXHIBIT 5



	Project		
	SLIDE - An Interactive Slope Stability Program		
	Analysis Description		
	Drawn By	Scale	Company
Date	2/8/2018, 10:31:08 AM	File Name	r_wang_RXG_11000401_Sta6324+00_Undrained_CDRoad_20180208.s

APPENDIX A
Boring Logs



BORING LOG 02-RWB-01

wangeng@wangeng.com
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 Lombard, IL 60148
 Telephone: (630) 953-9928
 Fax: (630) 953-9938

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.38 ft
 North: 1896389.09 ft
 East: 1171849.55 ft
 Station: 1813+59.21
 Offset: 2.8723 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.2	13.75-inch CONCRETE --PAVEMENT--															
	573.94	1/4-inch thick ASPHALT --PAVEMENT--															
		Medium dense, brown CRUSHED STONE --FILL--			1	20 17 11	NP	7			--In-Situ Vane Shear, 20.5 feet-- -- $S_{u\ undis}$ = 466.2 psf-- -- $S_{u\ remold}$ = 388.5 psf-- --Sensitivity = 1.20--			5			
	570.9	Very soft to medium stiff, gray CLAY to SILTY CLAY LOAM, trace gravel			2	2 2 3	NA	11			--In-Situ Vane Shear, 23.0 feet-- -- $S_{u\ undis}$ = 725.2 psf-- -- $S_{u\ remold}$ = 569.8 psf-- --Sensitivity = 1.27--			6	0 0 1	0.25 B	27
					3	0 2 2	0.49 B	20			--In-Situ Vane Shear, 25.5 feet-- -- $S_{u\ undis}$ = 854.7 psf-- -- $S_{u\ remold}$ = 699.3 psf-- --Sensitivity = 1.22--			7	0 0 3	0.25 B	27
		--In-Situ Vane Shear, 7 feet-- -- $S_{u\ undis}$ = 932.4 psf-- -- $S_{u\ remold}$ = 569.8 psf-- --Sensitivity = 1.63--			4	1 1 2	0.25 B	19			--In-Situ Vane Shear, 28.0 feet-- -- $S_{u\ undis}$ = 906.5 psf-- -- $S_{u\ remold}$ = 725.2 psf-- --Sensitivity = 1.25--			8	0 2 2	0.57 B	26
		-- L_L (%)=33, P_L (%)=15-- --%Gravel=5.5-- --%Sand=17.0-- --%Silt=50.1-- --%Clay=27.4-- --A-6(12)--			1	0 0 0	0.16 B	26		543.6	--In-Situ Vane Shear, 30.5 feet-- -- $S_{u\ undis}$ = 1217.3 psf-- -- $S_{u\ remold}$ = 906.5 psf-- --Sensitivity = 1.34--			9			
		-- L_L (%)=33, P_L (%)=15-- --%Gravel=5.5-- --%Sand=17.0-- --%Silt=50.1-- --%Clay=27.4-- --A-6 (12)--			5	0 0 1	0.16 B	23		541.1	Gray SILT			13	7 10 8	3.75 P	23
		--In-Situ Vane Shear, 13.0 feet-- -- $S_{u\ undis}$ = 595.7 psf-- -- $S_{u\ remold}$ = 440.3 psf-- --Sensitivity = 1.35--			6	0 0 1	0.25 B	26			Very stiff, gray CLAY to SILTY CLAY, trace gravel			14	5 10 14	3.28 B	21
		--In-Situ Vane Shear, 15.5 feet-- -- $S_{u\ undis}$ = 802.9 psf-- -- $S_{u\ remold}$ = 647.5 psf-- --Sensitivity = 1.24--			7												
		--In-Situ Vane Shear, 18.0 feet-- -- $S_{u\ undis}$ = 880.6 psf-- -- $S_{u\ remold}$ = 595.7 psf-- --Sensitivity = 1.47--			4	0 3 2	0.16 B	26									

GENERAL NOTES

Begin Drilling **06-03-2013** Complete Drilling **06-05-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 02-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.38 ft
 North: 1896389.09 ft
 East: 1171849.55 ft
 Station: 1813+59.21
 Offset: 2.8723 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	533.6										--A-4 (0)--						
		Very stiff to hard, gray SILTY CLAY LOAM, trace gravel and sand lenses	45	X	15	7 13 16	5.74 B	17			--Trace SAND and CLAY lenses--	65	X	19	5 7 5	NP	20
											Boring terminated at 65.00 ft						
			50	X	16	11 15 15	3.69 B	17				70					
	523.6	Medium dense to dense, gray SILTY LOAM, trace gravel	55	X	17	16 21 23	NP	20				75					
		--%Gravel=1.5-- --%Sand=30.0-- --%Silt=64.4-- --%Clay=4.0--	60	X	18	15 22 17	NP	16				80					

GENERAL NOTES

Begin Drilling **06-03-2013** Complete Drilling **06-05-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 02-RWB-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.05 ft
 North: 1896502.39 ft
 East: 1171844.72 ft
 Station: 1814+72.61
 Offset: 2.2452 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.9	13.75-inch thick CONCRETE --PAVEMENT--									--%Silt=48.9-- --%Clay=32.1-- --A-6 (15)--						
	575.64	2.25-inch thick ASPHALT --PAVEMENT--															
	573.8	Medium dense, brown CRUSHED STONE --FILL--			1	16 16 7	NP	7						9	1 1 1	0.25 B	26
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	1 2 2	0.90 B	19						10	0 2 1	0.25 B	26
					3	1 2 3	0.57 B	22						11	1 2 2	0.25 B	26
					4	1 2 3	0.57 B	22						12	1 2 2	0.41 B	26
					5	1 2 2	0.33 B	25									
					6	0 1 2	0.33 B	26						13	3 2 7	0.49 B	25
					7	0 1 1	0.25 B	26		542.3	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace to little gravel						
		--L _L (%)=36, P _L (%)=16-- --%Gravel=4.3-- --%Sand=14.7--			8	0 1 1	0.16 B	26						14	7 11 15	4.50 P	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-04-2013** Complete Drilling **06-05-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.05 ft
 North: 1896502.39 ft
 East: 1171844.72 ft
 Station: 1814+72.61
 Offset: 2.2452 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	530.3	Very stiff to hard, gray SILTY CLAY. trace gravel	45		15	50/4	4.50 P	16		512.1	Boring terminated at 65.00 ft	65		19	15 18 16	NP	20	
			50		16	7 10 16	4.51 B	20					70					
			55		17	6 11 18	3.28 B	22					75					
	518.2		Medium dense to dense, gray SILTY LOAM	60		18	9 15 9	NP	17					80				

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-04-2013** Complete Drilling **06-05-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 02-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.12 ft
 North: 1896571.20 ft
 East: 1171842.41 ft
 Station: 1815+41.45
 Offset: 1.2416 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.0	13.25-inch thick CONCRETE --PAVEMENT--									--S _{u undis} = 725.2 psf-- --S _{u remold} = 621.6 psf-- --Sensitivity = 1.16--						
	576.6	4.25-inch thick ASPHALT --PAVEMENT-- Dense, brown CRUSHED STONE --BASE COURSE--			1	23 19 13	NP	8			--In-Situ Vane Shear, 23.0 feet-- --S _{u undis} = 984.2 psf-- --S _{u remold} = 647.5 psf-- --Sensitivity = 1.52--			9	0 1 1	0.16 B	26
	574.6	Medium stiff, gray SILTY CLAY LOAM, trace gravel --L _L (%)=30, P _L (%)=14-- --%Gravel=3.1-- --%Sand=26.3-- --%Silt=51.1-- --%Clay=19.5-- --A-6 (9)--	5		2	2 2 2	0.82 B	20			--In-Situ Vane Shear, 25.5 feet-- --S _{u undis} = 828.8 psf-- --S _{u remold} = 673.4 psf-- --Sensitivity = 1.23--			10	0 1 1	0.25 B	27
		--In-Situ Vane Shear, 8.0 feet-- --S _{u undis} = 1447.6 psf-- --S _{u remold} = 1034.0 psf-- --Sensitivity = 1.40--			3	1 3 3	0.90 B	29			--In-Situ Vane Shear, 28.0 feet-- --S _{u undis} = 751.1 psf-- --S _{u remold} = 647.5 psf-- --Sensitivity = 1.16--			11	1 1 2	0.41 B	27
			10		4	1 2 3	0.74 B	22			--In-Situ Vane Shear, 30.5 feet-- --S _{u undis} = 1191.4 psf-- --S _{u remold} = 880.6 psf-- --Sensitivity = 1.35--			12	1 2 1	0.25 B	27
	567.6	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel --In-Situ Vane Shear, 10.5 feet-- --S _{u undis} = 1344.2 psf-- --S _{u remold} = 930.6 psf-- --Sensitivity = 1.44--			2	0 1 2	0.33 B	25						13	1 3 5	0.41 B	27
		--In-Situ Vane Shear, 13.0 feet-- --S _{u undis} = 1036.0 psf-- --S _{u remold} = 673.4 psf-- --Sensitivity = 1.53--	15		6	0 1 1	0.25 B	24						14	8 12 14	NA	
		--In-Situ Vane Shear, 15.5 feet-- --S _{u undis} = 958.3 psf-- --S _{u remold} = 647.5 psf-- --Sensitivity = 1.48--			7	0 1 2	0.33 B	26		541.4	Medium dense to dense, gray SILT, trace gravel						
		--In-Situ Vane Shear, 18.0 feet--	20		8	0 1 2	0.25 P	26									

GENERAL NOTES

Begin Drilling **06-06-2013** Complete Drilling **06-09-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 02-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.12 ft
 North: 1896571.20 ft
 East: 1171842.41 ft
 Station: 1815+41.45
 Offset: 1.2416 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Gravel=4.4-- --%Sand=10.2-- --%Silt=80.9-- --%Clay=4.5-- --A-4 (0)--	45	X	15	12 23 24	NP	19			--L _L (%)=37, P _L (%)=14-- --%Gravel=1.1-- --%Sand=11.1-- --%Silt=51.8-- --%Clay=36.1-- --A-6 (19)--	45	X	19	3 3 5	1.23 B	25
	531.4	Hard, gray SILTY CLAY LOAM, trace gravel	50	X	16	7 15 23	5.74 B	15			--Trace SAND and SILT lenses--	50	X	20	5 6 7	1.15 B	25
	524.1	Very dense, gray SILTY LOAM, trace gravel	55	X	17	11 36 29	NP	18		506.4	Medium dense, gray SILTY LOAM	75	X	21	4 5 6	NP	26
	521.4	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	60	X	18	4 7 12	2.54 B	18		503.1	Boring terminated at 75.00 ft	75	X				

GENERAL NOTES

Begin Drilling **06-06-2013** Complete Drilling **06-09-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 02-RWB-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.37 ft
 North: 1896646.03 ft
 East: 1171838.48 ft
 Station: 1816+16.38
 Offset: 1.5665 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13.5-inch thick CONCRETE --PAVEMENT--															
	578.3																
	577.94	9.4-inch thick ASPHALT --PAVEMENT--															
		Dense, brown CRUSHED STONE --FILL--			1	15 17 23	NP	7						9	0 0 2	0.16 B	27
	576.4				2	4 3 5	1.07 B	22						10	0 0 2	0.25 B	27
		Stiff, gray SILTY CLAY LOAM, trace gravel			3	1 1 3	0.33 B	21						11	0 2 2	0.33 B	26
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	2 2 2	0.57 B	22						12	0 0 2	0.41 B	26
					5	1 1 1	0.25 B	23						13	1 1 2	< 0.25 P	27
					6	0 2 1	0.25 B	25						14	3 4 8	1.31 B	19
					7	0 0 2	0.25 B	28		542.6	Stiff to very stiff, gray SILTY CLAY, trace gravel						
					8	0 0 1	0.25 B	24									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-04-2013** Complete Drilling **06-04-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 02-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.37 ft
 North: 1896646.03 ft
 East: 1171838.48 ft
 Station: 1816+16.38
 Offset: 1.5665 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	517.6									517.6	Medium dense, gray SANDY LOAM						
			45	X	15	5 10 13	3.36 B	23				65	X	19	7 11 15	NP	23
	532.6	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel								512.6	Hard, gray SILTY LOAM, trace gravel						
			50	X	16	12 15 27	9.84 B	13		510.6	Boring terminated at 68.75 ft			20	50/3"	4.50 P	14
	527.6	Very stiff, gray SILTY CLAY, trace gravel															
		--L _L (%)=31, P _L (%)=15-- --%Gravel=1.0-- --%Sand=7.8-- --%Silt=58.9-- --%Clay=32.3-- --A-6 (13)--	55	X	17	12 18 21	3.94 B	22				75					
	522.6	Hard, gray SILTY LOAM, trace gravel															
			60	X	18	12 24 27	6.72 B	13				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-04-2013** Complete Drilling **06-04-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 02-RWB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.79 ft
 North: 1896721.51 ft
 East: 1171834.02 ft
 Station: 1816+91.99
 Offset: 2.3899 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.7	13.5-inch thick CONCRETE --PAVEMENT--									--In-Situ Vane Shear, 20.5 feet-- --S _{u undis} = 802.9 psf-- --S _{u remold} = 595.7 psf-- --Sensitivity = 1.34--			5			
	579.34	1.54-inch thick ASPHALT --PAVEMENT--												9	0 2 1	0.25 B	26
	577.8	Medium dense, brown CRUSHED STONE --FILL--			1	20 15 9	NP	2			--In-Situ Vane Shear, 23.0 feet-- --S _{u undis} = 1061.9 psf-- --S _{u remold} = 699.3 psf-- --Sensitivity = 1.51--			6			
		Very stiff, gray SILTY CLAY LOAM, trace gravel			2	3 4 4	2.38 B	17						10	1 2 2	0.16 B	25
	575.3	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			3	3 2 2	0.49 B	17			--In-Situ Vane Shear, 25.5 feet-- --S _{u undis} = 854.7 psf-- --S _{u remold} = 595.7 psf-- --Sensitivity = 1.43--			7			
		--L _L (%)=34, P _L (%)=15-- --%Gravel=4.2-- --%Sand=17.7-- --%Silt=47.9-- --%Clay=30.2-- --A-6 (13)--			4	1 2 3	0.41 B	16			--In-Situ Vane Shear, 28.0 feet-- --S _{u undis} = 984.2 psf-- --S _{u remold} = 725.2 psf-- --Sensitivity = 1.35--			8			
		--In-Situ Vane Shear, 10.5 feet-- --S _{u undis} = 1217.3 psf-- --S _{u remold} = 932.4 psf-- --Sensitivity = 1.30--			5	1 2 2	0.41 B	22			--In-Situ Vane Shear, 30.5 feet-- --S _{u undis} = 958.3 psf-- --S _{u remold} = 751.1 psf-- --Sensitivity = 1.27--			9			
		--In-Situ Vane Shear, 13.0 feet-- --S _{u undis} = 1036.0 psf-- --S _{u remold} = 828.8 psf-- --Sensitivity = 1.25--			2	2 2 3	0.33 B	25						13	2 2 2	0.49 B	26
		--In-Situ Vane Shear, 15.5 feet-- --S _{u undis} = 1061.9 psf-- --S _{u remold} = 700.0 psf-- --Sensitivity = 1.46--			3	1 1 2	0.33 B	25			--In-Situ Vane Shear, 35.5 feet-- --S _{u undis} = 1269.1 psf-- --S _{u remold} = 984.2 psf-- --Sensitivity = 1.28--			10			
		--In-Situ Vane Shear, 18.0 feet-- --S _{u undis} = 751.1 psf-- --S _{u remold} = 543.9 psf-- --Sensitivity = 1.38--			4	0 1 2	0.16 B	25						14	1 2 10	<0.25 P	35

GENERAL NOTES

Begin Drilling **06-09-2013** Complete Drilling **06-11-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 7.5', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 02-RWB-05

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.79 ft
 North: 1896721.51 ft
 East: 1171834.02 ft
 Station: 1816+91.99
 Offset: 2.3899 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	539.0	Very stiff to hard, gray SILTY LOAM, trace gravel								519.0	Medium dense, gray fine SANDY LOAM, trace silt lenses							
			45	X	15	9 10 11	4.51 S	13			--%Gravel=0.1-- --%Sand=75.9-- --%Silt=23.0-- --%Clay=1.0-- --A-2-4 (0)--	65	X	19	10 11 10	NP	20	
		--L _L (%)=26, P _L (%)=13-- --%Gravel=5.0-- --%Sand=26.3-- --%Silt=55.4-- --%Clay=13.3-- --A-6 (6)--	50	X	16	13 14 23	6.31 S	12		514.0	Hard, gray SILTY LOAM, trace gravel	70	X	20	14 18 29	8.45 S		13
		--Dense, gray SILT--	55	X	17	17 21 27	NP	21				75	X	21	50/5	4.50 P		9
			60	X	18	11 14 16	2.79 S	12		504.0	Hard, gray CLAY	80	X	22	13 18 12	5.00 S		22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-09-2013** Complete Drilling **06-11-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 7.5', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **DRY**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 02-RWB-05

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.79 ft
 North: 1896721.51 ft
 East: 1171834.02 ft
 Station: 1816+91.99
 Offset: 2.3899 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	499.0	Hard, gray SILTY LOAM, trace gravel															
			85	X	23	50/5	4.50 P	16									
		--HARD DRILLING (at 88')-- --Possible Cobbles--															
	492.8	Boring terminated at 88.00 ft															
			90														
			95														
			100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-09-2013** Complete Drilling **06-11-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 7.5', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 02-RWB-06

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.64 ft
 North: 1896796.97 ft
 East: 1171829.83 ft
 Station: 1817+67.50
 Offset: 3.6732 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13.75-inch thick CONCRETE --PAVEMENT--															
	580.4																
	580.14	14-inch thick ASPHALT --PAVEMENT--															
	579.6																
		6-inch thick CRUSHED STONE --BASE COURSE--			1	11 20 27	NP	5						9	1 1 2	0.41 B	26
	578.4	Very stiff (2.75P), gray and brown CLAY LOAM, trace gravel --FILL--			2	1 4 5	1.80 B	18						10	1 2 3	< 0.25 P	27
		Medium stiff to stiff, gray and brown SILTY CLAY LOAM, trace gavel			5									25			
		--L _L (%)=26, P _L (%)=13-- --%Gravel=4.2-- --%Sand=22.5-- --%Silt=49.7-- --%Clay=23.6-- --A-6 (7)--			3	3 3 4	1.23 B	17						11	1 1 2	0.25 B	25
					4	2 2 3	0.90 B	23						12	0 1 2	0.16 B	26
					5	2 2 3	1.07 B	25									
	568.6	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			6	1 2 2	0.41 B	24						13	0 2 2	0.33 B	25
					7	1 1 2	0.33 B	25									
					8	1 1 2	0.41 B	26						14	1 2 3	0.41 B	28

GENERAL NOTES

Begin Drilling **06-16-2013** Complete Drilling **06-17-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 02-RWB-06

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.64 ft
 North: 1896796.97 ft
 East: 1171829.83 ft
 Station: 1817+67.50
 Offset: 3.6732 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	539.9	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel								519.9	Medium dense, gray GRAVELLY SANDY LOAM						
			45	X	15	13 13 13	1.23 B	16			--%Gravel=35.8-- --%Sand=43.9-- --%Silt=17.7-- --%Clay=2.6-- --A-1-b (0)--	65	X	19	14 15 14	NP	13
			50	X	16	14 16 20	3.12 B	15		512.6	Hard (4.5P), gray SILTY CLAY LOAM	70	X	20	12 13 20	NP	11
	527.1	Gray SANDY GRAVEL	55	X	17	17 21 48	3.44 B	11		508.0 507.5	Gray SANDY GRAVEL Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	75	X	21	17 50/5	4.10 B	10
	524.9	Gray SILT															
	522.6	Hard, gray SILTY CLAY, trace gravel	60	X	18	20 26 23	6.15 B	20				80	X	22	21 20 28	6.56 B	20

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-16-2013** Complete Drilling **06-17-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 02-RWB-06

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.64 ft
 North: 1896796.97 ft
 East: 1171829.83 ft
 Station: 1817+67.50
 Offset: 3.6732 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
		--L _L (%)=40, P _L (%)=15-- --%Gravel=4.2-- --%Sand=7.2-- --%Silt=48.6-- --%Clay=40.0-- --A-6 (22)--85			23	13 22 50/5	8.61 B	10										
		--HARD DRILLING (at 86')-- --Possible Cobbles--												2				NP
			90		24	30 36 50/5	4.50 P	12				110						
	490.6	--HARD DRILLING-- --WEATHERED BEDROCK--								469.6								
	489.6	Strong, excellent rock quality, light gray, fresh, joint breaks with little to no infill, slightly vuggy DOLOSTONE							C O R E		Boring terminated at 112.00 ft							
		--Run 1-RECOVERY=100%-- --RQD=95%--	95		1							115						
			100									120						

GENERAL NOTES

Begin Drilling **06-16-2013** Complete Drilling **06-17-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 02-ST-06

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.65 ft
 North: 1896728.30 ft
 East: 1171563.01 ft
 Station: 1817+67.51
 Offset: 2.7024 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.1	14-inch thick CONCRETE over 4-inch thick ASPHALT --PAVEMENT--									--A-6 (13)--						
		--Drilled without sampling--	5								--Drilled without sampling--	25					
	571.6	Stiff, gray SILTY CLAY LOAM, trace gravel	10	1			1.00		P H S C U P								
		--Drilled without sampling--	15								Medium stiff, gray CLAY to SILTY CLAY --L _L (%)=37, P _L (%)=17-- --%Gravel=5.6-- --%Sand=12.7-- --%Silt=46.4-- --%Clay=35.3-- --A-6 (15)--	35	3			0.50	
										546.6	Boring terminated at 35.00 ft						
	561.6	Medium stiff, gray SILTY CLAY to SILTY CLAY LOAM --L _L (%)=35, P _L (%)=17-- --%Gravel=3.2-- --%Sand=16.6-- --%Silt=51.4-- --%Clay=28.8--	20	2			0.50	26	P H S C U H								

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-25-2013** Complete Drilling **07-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Happel** Checked by **CLM**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ∇ **NA**
 At Completion of Drilling ∇ **NA**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.66 ft
 North: 1897981.87 ft
 East: 1171951.70 ft
 Station: 5213+02.90
 Offset: 36.757 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.2	6-inch thick, gray CRUSHED STONE --FILL--															
		Brown SANDY LOAM, some gravel and brick --FILL--			1	P U S H	NP	11									
					2	P U S H	NP	4									
	581.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	P U S H	0.75 P	22									
					4	P U S H	0.25 P	24									
					5	P U S H	< 0.25 P	20									
	575.7	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-26-2015** Complete Drilling **10-26-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **B&N** Logger **B. Wilson** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



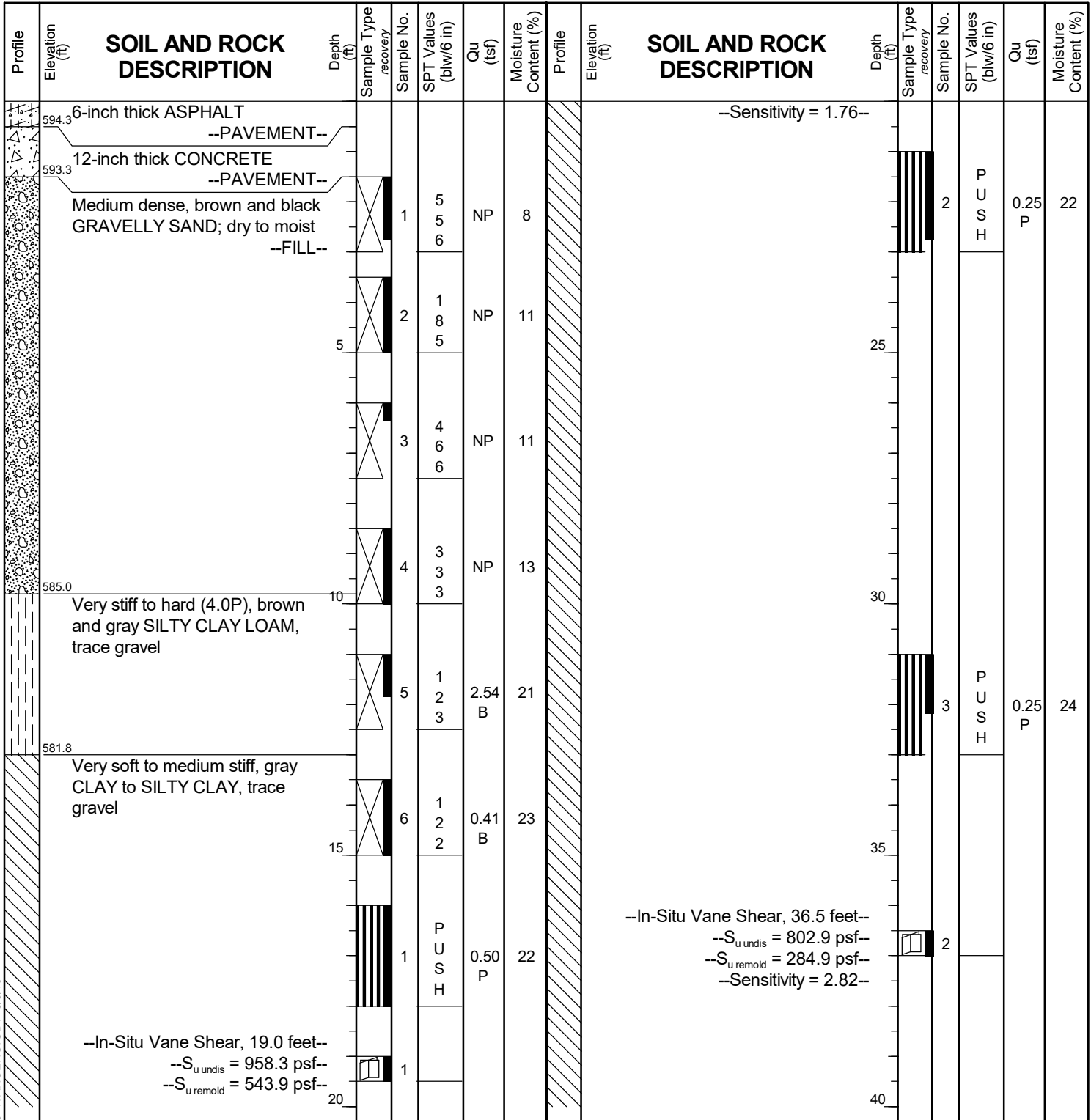
BORING LOG 0589-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Jane Byrne Interchange**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.82 ft
North: 1899347.34 ft
East: 1171345.80 ft
Station: 8311+86.85
Offset: 16.7442 LT



GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-22-2014** Complete Drilling **06-22-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&R** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 0589-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 594.82 ft
 North: 1899347.34 ft
 East: 1171345.80 ft
 Station: 8311+86.85
 Offset: 16.7442 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					4	4	< 0.25	24			--%Silt=55.6-- --%Clay=23.2-- --A-6 (8)--						
			45		3						--In-Situ Vane Shear, 46.5 feet-- -- $S_{u\text{undis}}$ = 1087.8 psf-- -- $S_{u\text{remold}}$ = 647.5 psf-- --Sensitivity = 1.68--			9	8 9 12	3.94	15
			50											10	12 17 18	6.89	13
	542.3	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			5		0.25	27									
			55		7	4 6 10	2.13	17			-- L_L (%)=37, P_L (%)=21-- --%Gravel=0.5-- --%Sand=1.9-- --%Silt=63.3-- --%Clay=34.3-- --A-6 (17)--			11	4 5 6	1.72	28
										518.1	Gray GRAVELLY SANDY LOAM; moist						
			60		8	5 8 9	2.95	16			-- L_L (%)=28, P_L (%)=15-- --%Gravel=4.8-- --%Sand=16.4--			12	12 10 10	NP	10
										515.8	Medium dense, gray LOAM; moist						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-22-2014** Complete Drilling **06-22-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&R** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 0589-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 594.82 ft
 North: 1899347.34 ft
 East: 1171345.80 ft
 Station: 8311+86.85
 Offset: 16.7442 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	513.1	Dense, gray, fine to medium SAND; moist															
			85		13	12 16 17	NP	14									
					14	13 17 20	NP	16									
	504.3	--DIFFICULT DRILLING at 90.5															
		Very dense, grayish DOLOSTONE fragments															
		--WEATHERED BEDROCK--			15		NP										
		--AUGER REFUSAL--				50/1											
	501.1	Boring terminated at 93.50 ft			16	50/2	NP										
			95														
			100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-22-2014** Complete Drilling **06-22-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&R** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 0589-B-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.91 ft
 North: 1899272.85 ft
 East: 1171495.74 ft
 Station: 6149+79.82
 Offset: 21.5012 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.3	4-inch thick ASPHALT --PAVEMENT--															
	576.2	16-inch thick CONCRETE --PAVEMENT--															
	574.2	Dense, white and gray CRUSHED STONE; dry --BASE COURSE--		X	1	16 21 24	NP	4					X	9	0 0 0	0.41 B	26
	572.4	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	5	X	2	3 5 5	2.79 S	14					X	10	0 0 1	0.41 B	24
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel		X	3	2 1 2 3	0.41 B	23					X	11	2 3 3	1.56 B	25
				X	4	1 1 1 2	0.41 B	24					X	12	0 0 2	0.66 B	25
				X	5	1 2 3	0.25 P	24					X	13	0 1 3	0.41 B	18
				X	7	0 0 0	0.16 B	27					X	14	5 5 6	2.38 B	22
				X	8	0 0 0	0.33 B	26					X	14	5 5 6	2.38 B	22

GENERAL NOTES

Begin Drilling **07-13-2014** Complete Drilling **07-17-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **64.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **77.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.91 ft
 North: 1899272.85 ft
 East: 1171495.74 ft
 Station: 6149+79.82
 Offset: 21.5012 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	521.2	Medium dense, gray SILTY LOAM, trace gravel; damp to moist															
			45	X	15	4 5 7	5.25 B	13		513.4	Brown SANDY GRAVEL; saturated	65	X	19	4 4 5	NP	13
			50	X	16	5 7 9	2.30 B	22		511.2	Dense, gray SILTY LOAM, trace gravel; moist	70	X	20	12 14 22	NP	14
			55	X	17	3 5 6	2.54 B	23		506.2	Dense, gray SANDY LOAM, little gravel; wet	75	X	21	17 21 21	NP	13
			60	X	18	3 5 5	NP	13		501.2	Brown and gray, SANDY GRAVEL; saturated	80	X	22	13 19 21	NP	21
										498.9	Dense, gray SILTY LOAM, trace gravel; wet						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2014** Complete Drilling **07-17-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **64.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **77.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 0589-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.91 ft
 North: 1899272.85 ft
 East: 1171495.74 ft
 Station: 6149+79.82
 Offset: 21.5012 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	496.2	Brown and gray, medium and coarse SAND, little gravel; wet															
	493.9	Dense, gray SILTY LOAM, trace gravel	85		23	11 13 19	NP	20		473.9	Boring terminated at 104.00 ft	105					
	489.4	--DIFFICULT DRILLING at 88.5 ft-- --WEATHERED BEDROCK--	90									110					
	483.9	Strong, light gray, excellent rock mass quality, bedded fresh DOLOSTONE, 1 to 3 feet beds, 1.4 feet joints spacing, horizontal joints with none to less than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity --Run 1 - RECOVERY=100%-- --RQD=98%--	95									115					
			100		1							120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2014** Complete Drilling **07-17-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **64.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **77.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 0589-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 594.27 ft
 North: 1899354.98 ft
 East: 1171689.92 ft
 Station: 8315+31.06
 Offset: 15.8956 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	593.7	7-inch thick ASPHALT --PAVEMENT--																
	592.9	9-inch thick CONCRETE --PAVEMENT--																
		Loose to very dense, brown GRAVELLY SAND; dry to wet --FILL--		X	1	3 2 2	NP	5					X	9	0 0 0	0.25 B	26	
			5	X	2	5 3 3	NP	5				25	○	10	0 0 0	NR		
				X	3	32 44 3	NP	11					X	11	0 0 0	< 0.25 P	26	
	586.3	Very stiff, gray SILTY CLAY LOAM, trace gravel		X	4	4 6 7	2.62 B	20					X	12	0 0 3	0.57 B	29	
	583.8	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		X	5	1 2 2	0.66 B	25					X	13	1 2 2	< 0.25 P	28	
			15	X	6	0 0 0	0.16 B	25					X	14	0 0 1	0.41 B	26	
				X	7	1 2 1	< 0.25 P	29										
				X	8	0 0 0	< 0.25 P	24										
			20	X														

--L_L(%)=34, P_L(%)=16--
 --%Gravel=7.0--
 --%Sand=13.9--
 --%Silt=50.1--
 --%Clay=29.1--
 --A-6 (13)--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-19-2014** Complete Drilling **06-22-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **P&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **5.50 ft**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 594.27 ft
 North: 1899354.98 ft
 East: 1171689.92 ft
 Station: 8315+31.06
 Offset: 15.8956 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45	X	15	0 0 2	0.41 B	26				65	X	19	3 6 8	2.71 B	19
			50	X	16	1 2 4	0.66 B	25				70	X	20	10 14 17	4.00 P	19
			55	X	17	0 3 5	0.82 B	21		522.5	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	75	X	21	1 3 6	0.82 B	37
	537.5	Stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	60	X	18	3 6 11	1.89 B	23				80	X	22	7 7 11	< 0.25 P	26

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-19-2014** Complete Drilling **06-22-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **P&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 594.27 ft
 North: 1899354.98 ft
 East: 1171689.92 ft
 Station: 8315+31.06
 Offset: 15.8956 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	512.5	Gray SILT; dry															
	510.3	Medium dense to dense, gray SAND, trace gravel; moist	85	X	23	8 10 12	NP	16		490.4	Boring terminated at 103.82 ft	105	X	27	100/4	NP	12
			90	X	24	14 18 26	NP	19				110					
	502.5	Dense to very dense, gray GRAVELLY SAND; moist to saturated	95	X	25	13 13 20	NP	12				115					
			100	X	26	19 27 35	NP	11				120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-19-2014** Complete Drilling **06-22-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **P&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 08-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.35 ft
 North: 1899261.44 ft
 East: 1171382.28 ft
 Station: 1310+67.92
 Offset: 1.7942 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.04	4-inch thick, brown SILTY CLAY LOAM Medium dense, gray SANDY GRAVEL; damp --FILL--			1	8 10 6	NP	10			--%Clay=30.9-- --A-6 (14)--			9	0 0 0	0.33 B	26
	576.3	Stiff, brown SILTY CLAY, trace gravel			2	2 2 2	1.07 B	25				25		10	0 0 0	NR	
	573.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	0 1 2	0.49 B	24						11	0 0 0	0.33 B	25
					4	0 2 2	1.15 B	17						12	0 0 3	0.41 B	26
					5	0 0 1	0.33 B	25									
					6	0 0 2	0.41 B	28						13	0 1 2	0.74 B	24
					7	0 0 0	0.33 B	25		542.8	Stiff to hard, gray SILTY CLAY, trace gravel						
		--L _L (%)=36, P _L (%)=17-- --%Gravel=6.6-- --%Sand=13.3-- --%Silt=49.2--			8	0 0 1	0.33 B	27						14	3 3 4	1.89 B	21

GENERAL NOTES

Begin Drilling **07-10-2014** Complete Drilling **07-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
 Drilling Method **3.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 08-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.35 ft
 North: 1899261.44 ft
 East: 1171382.28 ft
 Station: 1310+67.92
 Offset: 1.7942 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	517.6									517.6	Medium dense, gray SILT; damp						
			45	X	15	3 9 11	1.00 P	22				65	X	19	29 12 6	NP	13
										514.3	Boring terminated at 65.00 ft						
			50	X	16	3 4 7	3.36 B	16				70					
			55	X	17	4 9 9	4.51 B	24				75					
			60	X	18	2 4 3	1.97 B	24				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-10-2014** Complete Drilling **07-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
 Drilling Method **3.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 08-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.14 ft
 North: 1899115.44 ft
 East: 1171371.20 ft
 Station: 1312+13.98
 Offset: 8.4733 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black LOAM, some gravel --FILL--			1	7 5 3	1.50 P	9									
	580.6		5		2	10 8 5	1.50 P	9			--In-Situ Vane Shear, 24 feet-- --S _{u undis} = 777 psf-- --S _{u remold} = 518 psf-- --Sensitivity = 1.5--	25		8			
		Stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			3	1 3 2	1.56 B	14									
	578.1				4	1 2 3	0.33 B	21				30		9	0 0 0	0.41 B	25
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			5	0 0 1	0.41 B	23									
		--In-Situ Vane Shear, 14 feet-- --S _{u undis} = 984 psf-- --S _{u remold} = 648 psf-- --Sensitivity = 1.52--	15		6						--In-Situ Vane Shear, 34 feet-- --S _{u undis} = 1295 psf-- --S _{u remold} = 570 psf-- --Sensitivity = 2.27--	35		10			
					7	0 2 2	< 0.25 P	27		549.4	Stiff very stiff, gray GRAVELLY SILTY CLAY LOAM						
			20								--L _L (%)=32, P _L (%)=17-- --%Gravel=15.2-- --%Sand=9.0-- --%Silt=51.4--	40		11	1 2 4	1.64 B	24

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-10-2014** Complete Drilling **07-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **8.00 ft**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 08-RWB-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.14 ft
 North: 1899115.44 ft
 East: 1171371.20 ft
 Station: 1312+13.98
 Offset: 8.4733 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=24.3-- --A-6 (10)--															
			45		12	0 1 3	0.66 B	20		524.4	Medium stiff, gray CLAY						
										521.1	Boring terminated at 65.00 ft	65		16	3 4 7	0.74 B	42
	539.4	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel															
			50		13	4 8 12	3.94 B	18				70					
			55		14	4 8 11	4.35 B	15				75					
			60		15	5 9 14	4.51 B	18				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-10-2014** Complete Drilling **07-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ▽ **8.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 08-RWB-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 592.12 ft
 North: 1898962.89 ft
 East: 1171377.44 ft
 Station: 1313+66.49
 Offset: 1.3750 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.93	3-inch thick ASPHALT --PAVEMENT--															
	590.91	12-inch thick CONCRETE --PAVEMENT--															
		Dense, brown SANDY GRAVEL --BASE COURSE--			1	27 18 16	NP	6						9	0 0 0	0.25 B	25
	589.1	Medium dense, brown, fine to medium SAND, trace gravel --FILL--			2	7 7 5	NP	4						10	0 0 2	< 0.25 P	23
			5		3	4 7 8	NP	5						11	0 1 2	0.49 B	22
	583.1	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	2 1 2	0.99 B	25						12	0 0 3	0.66 B	25
			10		5	0 1 2	0.82 B	16						13	0 0 0	0.57 B	23
			15		6	0 0 0	0.33 B	23						14	0 0 2	0.41 B	25
			20		7	0 0 0	0.33 B	25									
					8	0 0 2	0.33 B	26									

GENERAL NOTES

Begin Drilling **07-10-2014** Complete Drilling **07-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 592.12 ft
 North: 1898962.89 ft
 East: 1171377.44 ft
 Station: 1313+66.49
 Offset: 1.3750 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	530.4	Very stiff, gray SILTY CLAY, trace gravel	45	X	15	0 1 3	0.66 B	25		527.1	Boring terminated at 65.00 ft	65	X	19	5 8 14	3.94 B	21
	540.4	Stiff, gray SILTY CLAY, trace gravel	50	X	16	1 2 3	0.57 B	24				70					
	535.4	Medium dense, gray SILTY LOAM, trace gravel	55	X	17	2 4 6	1.88 B	22				75					
			60	X	18	9 12 13	NP	14				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-10-2014** Complete Drilling **07-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 08-ST-01

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.42 ft
 North: 1899122.49 ft
 East: 1171372.69 ft
 Station: 1312+06.92
 Offset: 7.0183 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.14	14-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown SILTY CLAY LOAM, little gravel; damp --FILL--	0 to 3	X	1	3 4 9	2.75 P	10				0 to 3					
	581.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; moist	5 to 10		2	2 2 3	0.83 N/6				--S _u = 0.22 tsf (UU TXC) --w _n (%)=25	5 to 10		5		< 0.25 P	24
			10 to 15		3	1 2 2	0.25 P	25				10 to 15		6		< 0.25 P	24
			15 to 20		4						--S _u = 0.43 tsf (UU TXC) --w _n (%)=23	15 to 20		7		0.25 P	24
			20 to 25		1						--S _u = 0.43 tsf (UU TXC) --w _n (%)=24	20 to 25		8		0.50 P	23
			25 to 30		2						--S _u = 0.43 tsf (UU TXC) --w _n (%)=23	25 to 30		9		0.25 P	25
			30 to 35		3						--S _u = 0.50 tsf (UU TXC) --w _n (%)=23	30 to 35		10		0.50 P	23
			35 to 40		4						--S _u = 0.29 tsf (UU TXC) --w _n (%)=24	35 to 40					
											--C _e =0.219, OCR=1.05--						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-03-2014** Complete Drilling **11-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▽ **NA**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 08-ST-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.42 ft
 North: 1899122.49 ft
 East: 1171372.69 ft
 Station: 1312+06.92
 Offset: 7.0183 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					11	S H	0.50 P	26									
		--Laboratory $Q_u=0.39$ tsf (B), $w_n(\%)=21$ --			12	P U S H	0.25 P	25									
		--Laboratory $Q_u=0.19$ tsf (B), $w_n(\%)=25$ --	45		13	P U S H	0.75 P	25									
	537.9	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp --Laboratory $Q_u=3.31$ tsf (B), $w_n(\%)=19$ --			14	P U S H	3.25 P	19									
			50														
	532.9				4	5 8 12	3.85 B	20									
		Boring terminated at 51.50 ft															
			55														
			60														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-03-2014** Complete Drilling **11-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **NA**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1087-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 596.41 ft
 North: 1897526.93 ft
 East: 1171579.56 ft
 Station: 7810+80.06
 Offset: 20.7735 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	595.6	10.25-inch thick CONCRETE --PAVEMENT--															
	593.7	Gray CRUSHED STONE --BASE COURSE--			1	PUSH	NP							10	143	0.90 B	26
		Medium dense, brown and gray, fine SAND to SANDY LOAM, little gravel and brick fragments --FILL--	5		2	PUSH	NP	12		573.4	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	25		11	213	0.67 N/6	
					3	PUSH	NP	15						12	222	0.41 B	22
					4	PUSH	NP	11						13	123	0.41 B	21
			10		5	PUSH	NP	14						14	000	0.25 B	26
					6	382	NP	22						15	122	0.25 B	25
	583.4	Medium stiff to very stiff, gray SILTY CLAY, trace gravel	15		7	344	3.03 B	25						8	225	2.05 B	24
					8	225	2.05 B	24						9	233	0.90 B	26
			20		9	233	0.90 B	26						15	122	0.25 B	25

GENERAL NOTES

Begin Drilling **03-21-2013** Complete Drilling **03-22-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1087-B-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 596.41 ft
 North: 1897526.93 ft
 East: 1171579.56 ft
 Station: 7810+80.06
 Offset: 20.7735 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		16	0 1 3	0.41 B	27				65		20	9 11 18	5.58 B	17
			50		17	1 2 2	0.57 B	27		529.7	Medium stiff to hard, gray CLAY to SILTY CLAY, trace gravel and seams of sand	70		21	8 12 17	4.67 B	21
			55		18	0 2 4	0.33 B	24				75		22	3 5 6	1.56 B	25
	539.7	Very stiff to hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel and sand seams	60		19	7 10 11	3.69 S	14				80		23	3 4 6	0.66 B	39

GENERAL NOTES

Begin Drilling **03-21-2013** Complete Drilling **03-22-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 1087-B-03

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 596.41 ft
 North: 1897526.93 ft
 East: 1171579.56 ft
 Station: 7810+80.06
 Offset: 20.7735 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	514.7	Very dense, gray SANDY LOAM, some gravel																
	509.7	Hard, gray SILTY LOAM, trace gravel	85	24	16	50/3	NP	17										
				90	25	33 46	50/4	8.61 S	12									
			95	26	19 20	50/3	7.38 S	15										
	496.4		100	27		50/4	4.50 P	13										

Boring terminated at 100.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-21-2013** Complete Drilling **03-22-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&T** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1088-B-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 597.11 ft
 North: 1897552.19 ft
 East: 1171668.11 ft
 Station: 7811+69.21
 Offset: 2.2723 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	595.8	16-inch thick CONCRETE --PAVEMENT--															
	593.8	Very dense, gray CRUSHED STONE --BASE COURSE--			1	9 21 29	NP										
	591.6	Very dense, brownish gray SILTY LOAM, little gravel --FILL-- --AUGER REFUSAL--			2	6 15 50/3	NP	11									
		Boring terminated at 5.50 ft															

GENERAL NOTES

Begin Drilling **02-17-2013** Complete Drilling **02-17-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 5.5, boring backfilled upon completion.**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1088-B-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.09 ft
 North: 1897500.54 ft
 East: 1171752.80 ft
 Station: 7812+52.58
 Offset: 51.4678 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick CONCRETE --PAVEMENT--															
	580.8 580.7	2-inch thick ASPHALT --PAVEMENT--															
		Medium dense CRUSHED STONE --FILL--			1	19 14 11	NP	11						9	0 1 1	0.25 B	26
	578.9	Medium stiff, gray SILTY CLAY LOAM, trace gravel			2	1 1 0	0.57 B	24						10	0 0 1	0.33 B	27
	576.6	Very soft to medium stiff, gray CLAY to SILTY CLAY			3	0 0 1	0.41 B	28						11	0 0 1	0.16 B	26
					4	2 2 2	0.16 B	28						12	0 1 2	0.16 B	28
					5	1 2 1	0.25 B	25									
					6	1 1 3	0.33 B	26						13	0 2 2	0.57 B	28
					7	0 2 2	0.41 B	26									
					8	0 1 1	0.25 B	27						14	4 4 7	1.15 B	20
										545.1	Stiff, gray SILTY CLAY LOAM, trace gravel						

--L_L(%)=34, P_L(%)=15--
 --%Gravel=2.0--
 --%Sand=15.5--
 --%Silt=49.7--
 --%Clay=32.8--
 --A-6 (14)--

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-06-2013** Complete Drilling **03-07-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1088-B-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.09 ft
 North: 1897500.54 ft
 East: 1171752.80 ft
 Station: 7812+52.58
 Offset: 51.4678 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	540.1	Hard, gray SILTY CLAY, trace gravel	45	X	15	5 8 25	4.02 B	17		520.1	Dense, gray SILTY LOAM, trace gravel	65	X	19	8 13 23	NP	23	
			50	X	16	15 22 19	4.51 B	15		515.1		Gray DOLOSTONE fragments with some SILTY CLAY Run#1 : 67 to 77 feet --RECOVERY=10% --RQD=0%	70					
			55	X	17	6 12 19	4.02 B	21						75				
	525.1	Medium stiff, gray SILTY CLAY LOAM	60	X	18	7 6 7	0.98 B	28			Run#2 : 77 to 86 feet --RECOVERY=14% --RQD=5%	80						

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-06-2013** Complete Drilling **03-07-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1088-B-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.09 ft
 North: 1897500.54 ft
 East: 1171752.80 ft
 Station: 7812+52.58
 Offset: 51.4678 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		2												
		--AUGER REFUSAL--															
	492.6	Strong, excellent rock quality, light gray, fresh, slightly fractured, joint breaks with little to no infill, slightly vuggy DOLOSTONE Run#3 : 89.5 to 99.5 feet --RECOVERY=100% --RQD=95%	90														
			95		3												
	482.6	Boring terminated at 99.5 ft	100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-06-2013** Complete Drilling **03-07-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1165-B-01A

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.51 ft
 North: 1895827.58 ft
 East: 1171662.31 ft
 Station: 7611+03.49
 Offset: 23.1545 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.4	13-inch thick, CONCRETE --PAVEMENT--								571.5	--AUGER REFUSAL, OBSTRUCTION at 22 feet--						
		Medium dense, white CRUSHED STONE --FILL--			1	6 11 11	NP	7			Boring terminated at 22.00 ft						
	589.5	Loose to medium dense, black and brown, fine to medium SAND, trace gravel --FILL--	5		2	4 4 6	NP	8				25					
					3	2 2 2	NP	6									
					4	3 4 5	NP	6				30					
					5	2 3 2	NP	7									
					6	3 3 3	NP	6				35					
					7	2 3 5	NP	6									
	575.5	--HARD DRILLING-- --Possible cobble size debris--	20									40					

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-07-2013** Complete Drilling **05-07-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **D. Wind** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 18.5', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 1165-B-01B

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.12 ft
 North: 1895767.18 ft
 East: 1171637.52 ft
 Station: 6246+95.15 (7610+77.12)
 Offset: 102.32 RT (82.8781 RT)

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.6	6-inch thick, ASPHALT --PAVEMENT--									--In-Situ Vane Shear, 20.5 feet-- --S _{u undis} = 878.9 psf--			1			
	591.8	10-inch thick, CONCRETE --PAVEMENT--									--S _{u remold} = 465.3 psf-- --Sensitivity = 1.89--			9	0 1 2	0.33 B	25
	590.1	Loose, brown GRAVELLY SAND --FILL--			1	7 3 2	NR	11			--In-Situ Vane Shear, 23.0 feet-- --S _{u undis} = 1243.2 psf-- --S _{u remold} = 958.3 psf-- --Sensitivity = 1.30 --			2	0 1 2	0.41 B	23
		Loose to medium dense, brown, fine SAND --FILL--			2	3 5 5	NP	5			--In-Situ Vane Shear, 25.5 feet-- --S _{u undis} = 1502.2 psf-- --S _{u remold} = 1087.8 psf-- --Sensitivity = 1.38 --			3	0 1 2	0.49 B	23
					3	4 4 2	NP	7			--In-Situ Vane Shear, 28 feet-- --S _{u undis} = 1292.5 psf-- --S _{u remold} = 775.5 psf-- --Sensitivity = 1.67 --			4	0 1 2	0.33 B	25
	584.1	Stiff to very stiff, gray SILTY CLAY, trace gravel --FILL--			4	2 3 4	2.13 B	25			--In-Situ Vane Shear, 30.5 feet-- --S _{u undis} = 1292.5 psf-- --S _{u remold} = 827.2 psf-- --Sensitivity = 1.56 --			5			
					5	3 3 4	1.50 P	22			--L _L (%)=35, P _L (%)=15-- --%Gravel=5.8-- --%Sand=17.8-- --%Silt=46.1-- --%Clay=30.3-- --A-6 (14)--35			6	0 1 2	0.16 B	25
	580.1	Very soft to medium stiff, gray SILTY CLAY, trace gravel			6	2 2 3	0.66 B	19			--In-Situ Vane Shear, 35.5 feet-- --S _{u undis} = 802.9 psf-- --S _{u remold} = 543.9 psf-- --Sensitivity = 1.48 --			14	0 0 2	0.25 B	24
					7	1 2 2	0.57 B	20									
					8	1 2 2	0.49 B	24									

GENERAL NOTES

Begin Drilling **05-23-2013** Complete Drilling **05-29-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 16', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 1165-B-01B

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.12 ft
 North: 1895767.18 ft
 East: 1171637.52 ft
 Station: 6246+95.15 (7610+77.12)
 Offset: 102.32 RT (82.8781 RT)

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	546.4	Dense, gray SILT	45	X	15	0 2 2	0.74 B	26		65	--L _L (%)=40, P _L (%)=16-- --%Gravel=1.2-- --%Sand=5.3-- --%Silt=49.0-- --%Clay=44.5-- --A-6 (23)--	65	X	19	7 14 21	6.07 B	20
	541.4	Hard, gray CLAY to SILTY CLAY, trace gravel	50	X	16	6 16 15	NP	21		70		70	X	20	7 11 16	6.64 B	13
	521.4	Dense, gray SILTY LOAM, trace gravel	55	X	17	8 10 12	6.48 B	18		75		75	X	21	16 17 18	NP	15
	516.4	Hard, gray SILTY CLAY LOAM, trace gravel	60	X	18	15 22 29	7.05 S	14		80		80	X	22	28 27 50/4"	10.25 B	13

GENERAL NOTES

Begin Drilling **05-23-2013** Complete Drilling **05-29-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 16', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1165-B-01B

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.12 ft
 North: 1895767.18 ft
 East: 1171637.52 ft
 Station: 6246+95.15 (7610+77.12)
 Offset: 102.32 RT (82.8781 RT)

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	82.5'	--Possible cobbles--															
	511.4	Very dense, gray SILTY LOAM, trace gravel															
			85	X	23	48 50/3"	NP	12									
			90	X	24	32 50/5"	6.64 S	12									
		--HARD DRILLING from 93.5' to 98.5'-- --Possible cobbles--	95	X	25	50/5"	NP	14									
		--HARD DRILLING from 99' to 100'-- --Possible cobbles--															
		--AUGER REFUSAL--		X	26	50/3"	NP	14									
	493.1		100														
Boring terminated at 100.00 ft																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-23-2013** Complete Drilling **05-29-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 16', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1165-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.80 ft
 North: 1895901.50 ft
 East: 1171749.50 ft
 Station: 7611+92.60
 Offset: 48.4479 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick, ASPHALT --PAVEMENT--															
	573.4	Medium dense, brown SANDY GRAVEL --BASE COURSE--			1	7 7 9	NP	15						9	0 1 1	0.50 P	26
	571.1	Stiff, gray SILTY CLAY, trace gravel	5		2	5 3 4	1.39 B	18				25		10	1 1 2	0.41 B	24
	569.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	0 0 0	0.25 B	24						11	3 4 3	0.75 P	23
			10		4	0 0 1	0.08 B	25		545.8	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	30		12	3 10 9	1.80 B	19
					5	0 0 1	0.08 B	27									
		--L _L (%)=36, P _L (%)=15-- --%Gravel=4.1-- --%Sand=13.8-- --%Silt=50.0-- --%Clay=32.1-- --A-6 (16)--	15		6	0 0 1	0.08 B	27				35		13	7 11 12	1.80 B	19
					7	0 0 1	0.08 B	27									
			20		8	0 1 1	0.50 P	30				40		14	5 8 15	4.92 B	19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-08-2013** Complete Drilling **05-08-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **D. Wind** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 16', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **18.50 ft**
 At Completion of Drilling ∇ **18.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.80 ft
 North: 1895901.50 ft
 East: 1171749.50 ft
 Station: 7611+92.60
 Offset: 48.4479 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											--%Silt=47.3-- --%Clay=22.7-- --A-6 (8)--						
	45		45	X	15	7 11 18	5.49 B	19		65		65	X	19	8 14 36	3.69 B	22
										508.1	Very dense, gray SILTY LOAM, little to some gravel, possible cobbles						
	50		50	X	16	4 8 17	2.95 B	22		70		70	X	20	48 50/3	4.00 P	12
											--L _L (%)=22, P _L (%)=12-- --%Gravel=8.4-- --%Sand=26.3-- --%Silt=53.9-- --%Clay=11.4-- --A-4 (3)--						
	55		55	X	17	12 17 20	1.64 B	22		75		75	X	21	19 25 38	5.00 S	10
											--HARD DRILLING-- --Possible cobbles--						
	60	--L _L (%)=29, P _L (%)=14-- --%Gravel=7.2-- --%Sand=22.8--	60	X	18	9 13 21	8.12 B	13		80		80	X	22	17 50/5	4.50 P	21

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-08-2013** Complete Drilling **05-08-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **D. Wind** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 16', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **18.50 ft**
 At Completion of Drilling ∇ **18.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.80 ft
 North: 1895901.50 ft
 East: 1171749.50 ft
 Station: 7611+92.60
 Offset: 48.4479 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	488.8		85		23	32	4.50	14									
	488.8	Strong, good rock quality, grayish white, fresh, slightly to moderately fractured, joint breaks with little to no infill, highly vuggy DOLOSTONE Run#1: 86to 96 feet --RECOVERY=100%-- --RQD=70%--															
	478.8	Boring terminated at 96.00 ft															

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-08-2013** Complete Drilling **05-08-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **D. Wind** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 16', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **18.50 ft**
 At Completion of Drilling \blacktriangledown **18.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 14-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.85 ft
 North: 1897238.90 ft
 East: 1171475.76 ft
 Station: 1229+27.47
 Offset: 39.6372 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick CONCRETE --PAVEMENT--															
	579.6																
	579.3	3-inch thick ASPHALT															
		Medium dense, brownish white CRUSHED STONE --BASE COURSE--			1	15 17 9	NP	15						9	1 2 1	0.16 B	23
	577.6				2	3 2 3	0.49 B	22				25		10	1 2 1	0.25 B	25
		Soft, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2	0.57 B	28						11	0 2 2	0.33 B	26
					4	1 2 1	0.41 B	27						12	2 3 3	0.49 B	25
					5	2 1 2	0.41 B	23									
					6	2 2 2	0.25 B	27						13	2 3 4	0.25 B	21
					7	2 1 3	0.25 B	26		544.1	Very stiff to hard, gray SILTY CLAY, trace gravel						
					8	1 1 1	0.25 B	28						14	3 4 5	3.00 P	19

GENERAL NOTES

Begin Drilling **07-28-2014** Complete Drilling **07-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

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WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 14-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.85 ft
 North: 1897238.90 ft
 East: 1171475.76 ft
 Station: 1229+27.47
 Offset: 39.6372 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	534.1	Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	45	X	15	12 18 47	5.17 B	17		515.8		65	X	19	14 23 33	NP	17	
			50	X	16	33 45 32 4	3.28 S	15										
	529.1	Very dense, gray SAND to SANDY LOAM, trace gravel	55	X	17	17 23 36	NP	18										
			60	X	18	13 30 22	NP	19										
										Boring terminated at 65.00 ft								

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-28-2014** Complete Drilling **07-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 14-RWB-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.26 ft
 North: 1897133.58 ft
 East: 1171489.78 ft
 Station: 6233+15.05
 Offset: 62.0541 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.94	14-inch thick, ASPHALT --PAVEMENT--															
	580.8	14-inch thick, CONCRETE --PAVEMENT--															
		Dense, grayish white CRUSHED STONE --FILL--			1	37 30 18	NP	5						9	0 0 1	0.08 B	27
	578.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	1 2 3	0.41 B	24				25		10	0 0 1	0.57 B	25
					3	0 1 1	0.41 B	25						11	0 1 2	0.57 B	24
					4	0 0 1	0.25 B	27				30		12	0 0 2	0.41 B	25
					5	0 0 0	0.16 B	26									
					6	0 0 2	0.49 B	24				35		13	0 1 2	0.66 B	26
					7	0 0 0	0.41 B	26									
					8	0 0 0	0.25 B	20				40		14	0 0 1	0.25 B	37

GENERAL NOTES

Begin Drilling **07-30-2014** Complete Drilling **07-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **52.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

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WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.26 ft
 North: 1897133.58 ft
 East: 1171489.78 ft
 Station: 6233+15.05
 Offset: 62.0541 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.5	Hard, gray SILTY CLAY, trace gravel	45	X	15	6 11 19	7.13 B	19		520.5	Medium dense, brown fine SAND --Moist--	65	X	19	9 11 13	NP	21
	535.5	Gray SILTY LOAM, trace gravel															
	533.1	Medium dense, brown, fine SAND --Moist--	50	X	16	14 23 18	NP	17			Boring terminated at 65.00 ft						
			55	X	17	12 14 14	NP	27									
	525.5	Dense, gray SILT --Moist--	60	X	18	11 17 19	NP	22									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-30-2014** Complete Drilling **07-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **52.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 14-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.96 ft
 North: 1896992.53 ft
 East: 1171501.15 ft
 Station: 6234+52.32
 Offset: 75.7462 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick CONCRETE --PAVEMENT--															
	581.6																
	581.34	4-inch thick ASPHALT --PAVEMENT--															
		Dense, grayish white SANDY GRAVEL --FILL--		X	1	22 22 13	NP	3					X	9	0 0 0	0.16 B	27
	579.0			X	2	4 3 5	1.64 B	23					X	10	0 0 0	0.25 B	26
		Stiff, gray SILTY CLAY, trace gravel		X	3	2 2 3	1.07 B	24					X	11	0 1 1	0.33 B	24
	575.0			X	4	1 2 2	0.41 B	32					X	12	1 1 2	< 0.25 P	26
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		X	5	0 0 0	0.16 B	39					X	13	1 2 2	0.82 B	24
				X	6	0 0 1	0.41 B	26					X	14	1 1 2	0.57 B	27
				X	7	0 0 0	0.25 B	25					X	14	1 1 2	0.57 B	27
				X	8	0 0 0	0.25 B	25					X	14	1 1 2	0.57 B	27

GENERAL NOTES

Begin Drilling **07-20-2014** Complete Drilling **07-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **57.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 14-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.96 ft
 North: 1896992.53 ft
 East: 1171501.15 ft
 Station: 6234+52.32
 Offset: 75.7462 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	541.2	Dense to very dense, gray CLAY LOAM to SILTY LOAM, trace gravel															
		--Dry--	45		15	8 12 20	5.74 B	13		518.0		65		19	16 20 22	NP	22
											Boring terminated at 65.00 ft						
		--L _L (%)=26, P _L (%)=15-- --%Gravel=5.1-- --%Sand=25.2-- --%Silt=47.0-- --%Clay=22.7-- --A-6 (5)--	50		16	13 20 20	NP	12				70					
	528.5	--5-inch, brown, coarse SAND--	55		17	9 18 47	NP	12				75					
	526.2	Dense to very dense, brown, fine SAND															
		--Moist--	60		18	15 21 37	NP	22				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-20-2014** Complete Drilling **07-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 15-RWB-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.75 ft
 North: 1896801.76 ft
 East: 1171517.06 ft
 Station: 6236+42.48
 Offset: 97.8444 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.4	3.5-inch thick ASPHALT --PAVEMENT--									--Sensitivity = 2.32--						
	579.3	13.5-inch thick CONCRETE --PAVEMENT--															
		Loose to very dense, grayish white SANDY GRAVEL --FILL--		X	1	21 50/5	NP	8									
	576.7	Very soft to soft, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	5	X	2	2 2 3	< 0.25 P	23				25		2			0.25 P
				X	3	1 1 2	0.33 B	13									
	572.7	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10	X	4	1 1 2	0.25 B	25			--In-Situ Vane Shear, 28.5 feet-- --S _{u undis} = 1061.90 psf-- --S _{u remold} = 647.50 psf-- --Sensitivity = 1.64--	30		2			0.25 P
			15		1		0.25 P					35		3			0.70 B
			20		1		0.25 P					40		5	3 3 8	3.44 B	17
										544.0	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						

GENERAL NOTES

Begin Drilling **08-08-2014** Complete Drilling **08-08-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25 SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **52.00 ft**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 15-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.75 ft
 North: 1896801.76 ft
 East: 1171517.06 ft
 Station: 6236+42.48
 Offset: 97.8444 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.0	Very dense, gray SILTY LOAM, trace gravel --Dry--	45	X	6	8 14 25	7.46 B	17		515.7	Boring terminated at 65.00 ft	65	X	10	9 11 11	NP	23
	529.0	Medium dense to dense, brown fine SAND --Moist--	50	X	7	13 28 38	NP	12				70					
			55	X	8	13 14 18	NP	21				75					
			60	X	9	9 13 14	NP	23				80					

GENERAL NOTES

Begin Drilling **08-08-2014** Complete Drilling **08-08-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25 SSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **52.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 16-RWB-01A

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.13 ft
 North: 1896646.77 ft
 East: 1171609.88 ft
 Station: 6238+13.84
 Offset: 35.6064 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.1	12-inch thick, CONCRETE --PAVEMENT--															
		Dense to very dense, white and brown fine and medium SAND, trace to little gravel --FILL--			1	10 18 20	NP	3									
					2	20 22 23	NP	4									
					3	15 22 42	NP	8									
					4	50/3	NP	4									
	568.6	--Steel plate--															
		Boring terminated at 10.00 ft	10														
			15														
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-29-2014** Complete Drilling **07-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 16-RWB-01B

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.89 ft
 North: 1896657.18 ft
 East: 1171559.32 ft
 Station: 6237+94.68
 Offset: 83.6541 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.9	12-inch thick, ASPHALT --PAVEMENT--															
	574.9	Medium dense, gray CRUSHED STONE --BASE COURSE--			1	5 5 5	NP	5						9	0 1 2	< 0.25 P	35
	569.9	Very stiff, grayish SILTY CLAY LOAM, trace gravel			2	2 4 4	2.62 B	17						10	0 1 1	< 0.25 P	32
					3	1 2 3	3.00 P	14						11	1 2 3	< 0.25 P	29
		Very soft to soft, gray CLAY to SILTY CLAY, trace to little gravel			4	0 1 2	0.25 B	24						12	4 4 4	< 0.25 P	27
					5	0 0 2	0.16 B	20									
					6	0 1 1	0.08 B	26						13	0 1 3	0.25 B	27
					7	1 1 2	0.08 B	27		541.1	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
					8	0 1 2	< 0.25 P	30			--Dry--			14	9 14 16	4.92 S	16

GENERAL NOTES

Begin Drilling **08-06-2014** Complete Drilling **08-06-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 16-RWB-01B

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.89 ft
 North: 1896657.18 ft
 East: 1171559.32 ft
 Station: 6237+94.68
 Offset: 83.6541 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	516.1									516.1	Medium dense, brown, medium to coarse SAND						
			45	X	15	11 14 26	2.79 S	18			--Dry--		X	19	5 6 7	NP	21
										512.9	Boring terminated at 65.00 ft						
	526.1	Dense, gray SILTY LOAM, trace gravel															
			50	X	16	12 18 28	7.38 B	15				70					
	521.1	Stiff, gray SILTY CLAY, trace gravel															
			55	X	17	30 26 19	NP	11				75					
			60	X	18	5 5 7	1.23 B	33				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-06-2014** Complete Drilling **08-06-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 16-RWB-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.47 ft
 North: 1896514.09 ft
 East: 1171567.21 ft
 Station: 6239+40.38
 Offset: 98.1626 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	576.0	5-inch thick ASPHALT --PAVEMENT--																
	575.0	13-inch thick CONCRETE --PAVEMENT--																
	573.2	Very dense, grayish white CRUSHED STONE --FILL--		X	1	40 35 25/5	NP	9					X	9	0 0 0	0.25 B	25	
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel		X	2	3 2 2	0.49 B	22				25	X	10	1 2 2	< 0.25 P	31	
				X	3	1 2 2	0.49 B	20					X	11	0 1 2	0.33 B	25	
				X	4	0 2 2	0.33 B	19					X	12	0 0 2	0.41 B	27	
				X	5	0 0 0	0.16 B	18		544.7	Medium dense, gray SILT to SILTY LOAM, trace gravel --Dry--		X	13	4 10 7	NP	24	
				X	6	0 0 0	0.08 B	25					X	14	4 8 12	3.28 B	19	
				X	7	0 0 0	< 0.25 B	28		539.7	Very stiff, gray SILTY CLAY, trace gravel							
				X	8	0 0 0	NR											

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-05-2014** Complete Drilling **08-05-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 16-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.47 ft
 North: 1896514.09 ft
 East: 1171567.21 ft
 Station: 6239+40.38
 Offset: 98.1626 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.7	Dense, gray SILTY LOAM, trace gravel	45	X	15	14 16 22	NP	12		514.7	Medium stiff, gray SILTY CLAY, trace gravel	65	X	19	2 3 4	0.66 B	27
	529.7	Very stiff to hard, gray SILTY CLAY, trace gravel	50	X	16	8 12 18	4.35 B	21		511.5	Boring terminated at 65.00 ft						
			55	X	17	5 6 16	2.05 B	23									
	519.7	Medium dense, brown fine SAND --Dry--	60	X	18	7 9 12	NP	24									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-05-2014** Complete Drilling **08-05-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 16-RWB-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.10 ft
 North: 1896271.92 ft
 East: 1171639.81 ft
 Station: 1239+13.63
 Offset: 4.6520 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.0	13.5-inch thick, CONCRETE --PAVEMENT--															
	574.6	4.5-inch thick, ASPHALT --BASE COURSE--															
		Dense, brown and gray SANDY GRAVEL --FILL--			1	23 21 21	NP	11						9	1 2 2	0.41 B	25
	572.9	Medium stiff, gray SILTY CLAY, trace gravel			2	2 3 4	0.82 B	18						10	1 2 3	0.41 B	25
	570.6	Soft to very soft, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2	0.25 B	24						11	0 2 3	0.33 B	26
					4	1 2 3	0.25 B	26						12	2 2 3	0.49 B	25
					5	1 1 2	0.08 B	27		544.4	Medium dense, gray SILTY LOAM, trace gravel --Dry--						
					6	1 1 1	0.08 B	27						13	8 11 11	NP	20
					7	1 1 1	0.16 B	26									
					8	1 1 2	0.08 B	27		537.4	Hard, gray CLAY to SILTY CLAY, trace gravel			14	11 12 18	4.92 B	20

GENERAL NOTES

Begin Drilling **08-10-2014** Complete Drilling **08-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 16-RWB-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.10 ft
 North: 1896271.92 ft
 East: 1171639.81 ft
 Station: 1239+13.63
 Offset: 4.6520 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.4																
		Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	45	X	15	10 13 14	3.20 S	15		511.1		65	X	19	50/3	NP	14
											Boring terminated at 65.00 ft						
	529.4	Very dense, gray SILTY LOAM, trace gravel	50	X	16	15 27 33	2.54 S	12									
		--Dry--															
		Very dense, gray SILTY LOAM, trace gravel	55	X	17	16 23 35	NP	15									
		--Dry--															
			60	X	18	15 23 50/5	NP	14				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-10-2014** Complete Drilling **08-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 16-RWB-04

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.03 ft
 North: 1896103.12 ft
 East: 1171665.21 ft
 Station: 1240+84.08
 Offset: 12.2833 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE									--Boring terminated due to obstruction--						
	574.9	Medium dense to dense, white CRUSHED STONE --BASE COURSE--			1	13 13 20	NP			555.0	Boring terminated at 21.00 ft			9	50/0		
			5		2	3 15 10	NP	4				25					
					3	15 11 9	NP	5									
	568.0	Loose, gray SANDY LOAM --FILL--			4	5 2 7	NP	17									
	565.5	Loose, gray SILTY LOAM, trace gravel --FILL--			5	5 3 4	0.57 S	17									
	563.0	Medium dense, brown fine to medium SAND, trace gravel --FILL--			6	6 9 13	NP	16									
			15		7	11 9 10	NP	14									
					8	8 6 11	NP	22									
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-23-2014** Complete Drilling **07-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ▽ **8.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1702-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.83 ft
 North: 1898849.46 ft
 East: 1171361.60 ft
 Station: 8211+87.78
 Offset: 18.3545 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.3	6-inch thick, ASPHALT --PAVEMENT--								573.3	Soft, gray CLAY LOAM, trace gravel						
	592.3	12-inch thick, CONCRETE --PAVEMENT--									--L _L (%)=28, P _L (%)=14-- --%Gravel=5.4-- --%Sand=23.0-- --%Silt=46.7-- --%Clay=24.8-- --A-6 (7)--			9	1 1 2	0.33 B	16
	590.6	Loose, brown and gray, fine and medium SAND, trace gravel --FILL--			1	3 3 3	NP	12			Soft to very stiff, brown and gray SILTY CLAY LOAM, trace gravel and sand layers --FILL--	5		2	3 3 3	2.50 P	17
					3	2 1 2	1.25 P	20							0 3 2	0.57 B	24
					4	2 2 4	2.05 B	23							0 2 2	0.74 B	24
	583.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	3 2 2	0.75 P	27							1 2 2	0.41 B	25
					6	0 0 0	0.41 B	26									
					7	0 2 2	0.33 B	24									
					8	0 0 2	0.41 B	20							2 3 4	0.49 B	25

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-17-2014** Complete Drilling **06-17-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **76.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1702-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.83 ft
 North: 1898849.46 ft
 East: 1171361.60 ft
 Station: 8211+87.78
 Offset: 18.3545 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	552.1	Stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	45	X	15	3 4 6	1.39 B	17				65	X	19	5 7 14	0.75 P	22
			50	X	16	2 4 3	1.39 B	16		527.1	Medium stiff to very stiff, gray CLAY, trace gravel	70	X	20	5 7 8	2.21 B	24
	542.1	Soft to stiff, gray SILTY CLAY, trace gravel	55	X	17	4 6 6	0.49 B	21				75	X	21	3 4 5	0.82 B	30
			60	X	18	5 9 17	1.00 P	22		517.1	Medium dense to very dense, gray, fine SAND and SILT laminations	80	X	22	10 7 11	NP	22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-17-2014** Complete Drilling **06-17-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **76.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1702-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.83 ft
 North: 1898849.46 ft
 East: 1171361.60 ft
 Station: 8211+87.78
 Offset: 18.3545 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	502.1	Dense to very dense, gray SILTY LOAM --Moist--								487.8	--AUGER REFUSAL-- Boring terminated at 106.00 ft						
			85	○	23	50/5	NR					105	■	27	23 32 25	NP	24
			90	⊗	24	20 21 32	NP	20									
			95	⊗	25	22 23 23	NP	23									
			100	⊗	26	18 27 27	NP	19									

GENERAL NOTES

Begin Drilling **06-17-2014** Complete Drilling **06-17-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **76.75 ft**
 At Completion of Drilling **Rotary wash**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1702-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.38 ft
 North: 1898807.43 ft
 East: 1171517.63 ft
 Station: 6145+06.52
 Offset: 5.1113 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.05	5-inch thick, ASPHALT --PAVEMENT--															
	576.4	7-inch thick, CONCRETE --PAVEMENT--															
		Grayish white CRUSHED STONE --BASE COURSE--			1	6 10 4 5	NP	14						9	0 0 0	0.33 B	26
	574.0	Medium stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	2 5 5 5	0.57 B	17						10	0 0 0	0.33 B	26
	571.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 1 2	0.25 B	25						11	1 2 3	0.49 B	24
					4	0 1 2 2	0.33 B	25						12	0 2 3	0.74 B	24
					5	0 1 1	0.41 B	23		545.6	Medium stiff to very stiff, gray SILTY CLAY, trace to little gravel						
					6	0 1 2	0.16 B	18						13	1 3 6	1.07 B	20
					7	0 0 0	0.33 B	26									
					8	0 0 0	0.25 B	27						14	3 6 9	2.38 B	21

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2014** Complete Drilling **07-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **66.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.38 ft
 North: 1898807.43 ft
 East: 1171517.63 ft
 Station: 6145+06.52
 Offset: 5.1113 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	520.6	Medium stiff, gray CLAY, trace gravel															
			45	X	15	6 10 13	1.00 P	24		515.6	Medium dense, gray SILTY LOAM, trace gravel; moist	65	X	19	6 9 9	NP	13
			50	X	16	4 6 10	3.03 B	19		510.6	Dense, brown fine to medium SAND, trace gravel; moist	70	X	20	13 21 28	NP	15
			55	X	17	5 7 9	3.36 B	24		505.6	Very dense, gray GRAVELLY SAND; moist	75	X	21	50/5	NP	12
			60	X	18	1 2 3	0.82 B	28				80	X	22	50/6	NP	17

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2014** Complete Drilling **07-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **66.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.38 ft
 North: 1898807.43 ft
 East: 1171517.63 ft
 Station: 6145+06.52
 Offset: 5.1113 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	495.6	Very dense, gray SILT; moist								475.4	Boring terminated at 102.00 ft						
			85		23	40 56 40/1	NP	20				105					
	489.4	--difficult drilling from 88.0 feet-- --WEATHERED BEDROCK--			24	50/2	NR					110					
	485.4	Strong, light gray, fair rock mass quality, bedded fresh DOLOSTONE, up to 18-inch beds, 4-inch spaced joints, horizontal joints with none or less than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.										115					
		--Run 1 - RECOVERY=99%-- --RQD=57%-- --Qu = 10,280 psi--										120					
			95														
			100		1												

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-13-2014** Complete Drilling **07-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **66.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01
Client: AECOM
Project: Jane Byrne Interchange
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.01 ft
North: 1898890.82 ft
East: 1171649.04 ft
Station: 8214+76.16
Offset: 15.8644 LT

Table with columns: Profile, Elevation (ft), SOIL AND ROCK DESCRIPTION, Depth (ft), Sample Type recovery, Sample No., SPT Values (blw/6 in), Qu (tsf), Moisture Content (%), and another set of the same columns on the right. Includes soil descriptions like ASPHALT, CONCRETE, GRAVELLY SAND, SANDY LOAM, SILTY CLAY, and CLAY with associated test results.

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling 06-26-2014 Complete Drilling 06-26-2014
Drilling Contractor Wang Testing Services Drill Rig D-50 TMR [78%]
Driller R&J Logger S. Woods Checked by C. Marin
Drilling Method 2.25" SSA to 10', mud rotary thereafter, boring
backfilled upon completion

While Drilling 76.75 ft
At Completion of Drilling Rotary wash
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.01 ft
 North: 1898890.82 ft
 East: 1171649.04 ft
 Station: 8214+76.16
 Offset: 15.8644 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
						H	P										
		--In-Situ Vane Shear, 44.0 feet-- --S _{u undis} = 1450 psf-- --S _{u remold} = 803 psf-- --Sensitivity = 1.81--	45		4									9	3 7 12	2.30 B	22
			50		6	PUSH	0.41 B					70		10	6 12 16	4.84 B	21
	540.3	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	55		7	7 9 13	3.85 B	21		521.3	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	75		11	1 2 5	0.98 B	30
			60		8	4 7 17	3.44 B	16		516.3	Medium dense to dense, gray SAND; moist to saturated	80		12	10 9 8	NP	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-26-2014** Complete Drilling **06-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **76.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.01 ft
 North: 1898890.82 ft
 East: 1171649.04 ft
 Station: 8214+76.16
 Offset: 15.8644 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	499.0	Dense, gray SILT; saturated	85	X	13	13 16 15	NP	17		491.3	Very dense, gray GRAVELLY SILTY LOAM; wet						
	496.3	Dense, brown GRAVELLY SAND; wet	90	X	14	17 19 25	NP	20		489.0	Dolostone fragments in the head of the spoon --difficult drilling from 104 feet-- --WEATHERED BEDROCK--	105	X	17	50/6	NP	18
			95	X	15	13 17 18	NP	25		484.5	--ROLLER BIT REFUSAL-- Boring terminated at 108.50 ft	110					
			100	X	16	18 21 22	NP	15				115					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-26-2014** Complete Drilling **06-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **76.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.64 ft
 North: 1898050.50 ft
 East: 1171954.33 ft
 Station: 5213+04.97
 Offset: 31.8899 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			1	8 7 5	2.00 P	25						9	2 2 3	0.25 B	25
			5		2	4 4 5	1.48 B	22				25		10	2 2 3	0.33 B	26
	581.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 3	0.66 B	24						11	2 2 2	0.25 B	22
			10		4	1 2 3	0.41 B	25				30		12	1 2 2	0.25 B	28
					5	1 1 2	0.33 B	24									
			15		6	1 1 2	0.25 B	25				35		13	1 2 2	0.16 B	28
					7	1 1 3	0.25 B	25									
			20		8	1 3 3	0.33 B	17				40		14	1 2 4	< 0.25 P	28

GENERAL NOTES

Begin Drilling **10-21-2013** Complete Drilling **10-22-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **89.00 ft**
 At Completion of Drilling ∇ **89.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.64 ft
 North: 1898050.50 ft
 East: 1171954.33 ft
 Station: 5213+04.97
 Offset: 31.8899 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
										524.9	Hard, gray SILTY CLAY LOAM, trace gravel						
			45	X	15	1 2 3	0.25 B	21				65	X	19	18 25 31	5.41 S	13
	539.9	Very stiff to hard, gray SILTY CLAY, trace gravel															
			50	X	16	9 16 24	2.54 B	14				70	X	20	17 21 34	4.10 S	13
			55	X	17	12 20 29	6.64 B	14				75	X	21	15 27 46	8.28 B	15
										509.9	Very dense, gray SILTY LOAM, trace gravel						
			60	X	18	28 25 24	NP	15				80	X	22	50/5	NP	10
	527.9	Dense, gray SANDY LOAM, trace gravel --Moist--															

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-21-2013** Complete Drilling **10-22-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **89.00 ft**
 At Completion of Drilling ∇ **89.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.64 ft
 North: 1898050.50 ft
 East: 1171954.33 ft
 Station: 5213+04.97
 Offset: 31.8899 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	504.9	Hard, gray SILTY CLAY LOAM, trace gravel								484.9	--HARD DRILLING-- Very dense, greenish gray SILT/SHALE, some DOLOSTONE fragments --WEATHERED BEDROCK--						
		--HARD DRILLING-- --Possible Cobbles--	85	X	23	28 38 50/5	10.00 S	12				105	X	27	50/5	NP	16
										479.6	Boring terminated at 107.00 ft						
	497.6	Very dense, gray SILT, trace gravel	90	X	24	14 24 43	NP	23				110					
		--HARD DRILLING-- --Possible Cobbles--															
			95	X	25	50/4	NP	17				115					
	489.9	Very dense, gray GRAVELLY SAND --Saturated--	100	X	26	50/4	NP	14				120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-21-2013** Complete Drilling **10-22-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **89.00 ft**
 At Completion of Drilling ∇ **89.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1704-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.98 ft
 North: 1897913.67 ft
 East: 1171434.80 ft
 Station: 5155+31.36
 Offset: 19.5036 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	588.0	4-inch thick ASPHALT over 8-inch thick CONCRETE --PAVEMENT--															
	587.5	6-inch thick CRUSHED STONE --BASE COURSE--			1	3 6 9	4.50 P							9	0 0 0	0.33 B	26
		Very stiff to hard, gray SILTY CLAY LOAM, trace to little gravel, glass, cinders and brick --FILL--			2	8 7 5	2.87 B	15				25		10	0 0 0	0.16 B	27
					3	4 7 9	6.64 B	16						11	0 1 1	0.08 B	27
					4	3 4 4	3.12 B	18				30		12	0 0 0	0.16 B	26
	578.5	Very soft to soft, gray CLAY to SILTY CLAY LOAM, trace gravel --2" coarse SAND-->			5	2 1 1	0.25 B	27									
		--L _L (%)=31, P _L (%)=17-- --%Gravel=4.1-- --%Sand=20.5-- --%Silt=49.6-- --%Clay=25.9-- --A-6(9)--			6	0 0 0	0.16 B	25						13	0 0 1	0.25 B	27
					7	0 0 0	0.16 B	23									
					8	2 2 2	0.49 B	18				40		14	0 0 2	0.25 B	24

GENERAL NOTES

Begin Drilling **10-09-2013** Complete Drilling **10-09-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **11.50 ft**
 At Completion of Drilling ∇ **96.75 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1704-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.98 ft
 North: 1897913.67 ft
 East: 1171434.80 ft
 Station: 5155+31.36
 Offset: 19.5036 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45	X	15	0 0 2	0.25 B	29			--HARD DRILLING-- --Possible Cobbles--	65	X	19	6 7 10	2.21 B	25
	542.2	Very stiff, gray SILTY CLAY, trace gravel															
			50	○	16	2 4 8	2.00 N/6			520.0	Medium dense, gray SILTY LOAM, trace gravel	70	X	20	5 5 5	2.75 P	17
										517.2	Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			55	X	17	10 14 18	3.61 B	14			--1" SILT--	75	X	21	4 9 16	7.05 B	15
	532.2	Very stiff, gray CLAY to SILTY CLAY, trace gravel															
			60	X	18	5 9 15	3.69 B	22			--L _L (%)=25, P _L (%)=16-- --%Gravel=1.9-- --%Sand=9.9--	80	X	22	12 19 25	6.07 S	16

GENERAL NOTES

Begin Drilling **10-09-2013** Complete Drilling **10-09-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **11.50 ft**
 At Completion of Drilling **96.75 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.98 ft
 North: 1897913.67 ft
 East: 1171434.80 ft
 Station: 5155+31.36
 Offset: 19.5036 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=66.6-- --%Clay=21.6-- --A-4(6)-- --HARD DRILLING-- --Possible Cobbles--								488.0	--%Clay=11.5-- --A-4(0)-- --ROLLER BIT REFUSAL-- --Possible BEDROCK-- Boring terminated at 101.00 ft						
	504.7	Dense, gray SILTY LOAM, trace gravel	85	X	23	16 18 21	5.08 B	20				105					
	502.2	--HARD DRILLING-- Hard, gray SILTY CLAY LOAM, trace gravel															
			90	X	24	19 50/6"	6.23 S	11				110					
	497.2	Very dense, gray SILTY LOAM, trace gravel															
			95	X	25	35 50/3"	NP	15				115					
	492.2	Very dense, gray SILT, trace CLAY lamination --Saturated--															
		--%Gravel=0.0-- --%Sand=0.7-- --%Silt=87.7--	100	X	26	23 33 47	NP	17				120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-09-2013** Complete Drilling **10-09-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **11.50 ft**
 At Completion of Drilling ∇ **96.75 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.24 ft
 North: 1897908.23 ft
 East: 1171582.03 ft
 Station: 5156+77.85
 Offset: 32.3584 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.2	12-inch thick ASPHALT --PAVEMENT--															
	572.2	Medium dense, brown SANDY GRAVEL --FILL--			1	17 16 10	NP	5						9	0 0 2	0.33 B	26
	572.2	Hard, dark gray CLAY LOAM, trace gravel, brick fragments, and cinders --FILL--			2	5 7 8	5.17 B	16				25		10	0 1 3	0.41 B	25
	569.7	Medium stiff to stiff, gray SILTY CLAY, trace gravel			3	3 4 4	1.64 B	20						11	3 5 6	0.66 B	24
	567.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	2 2 3	0.49 B	22						12	1 2 2	0.33 B	26
					5	0 2 2	0.57 B	22									
					6	0 2 2	0.66 B	25		541.0	Hard, gray SILTY CLAY, trace gravel	35		13	2 3 3	1.00 N/6	
					7	0 2 2	0.49 B	25									
					8	0 1 2	0.33 B	26						14	6 9 16	4.35 B	20

GENERAL NOTES

Begin Drilling **10-17-2013** Complete Drilling **10-17-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **52.50 ft**
 At Completion of Drilling ∇ **82.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.24 ft
 North: 1897908.23 ft
 East: 1171582.03 ft
 Station: 5156+77.85
 Offset: 32.3584 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	7 14 26	5.41 B	16				65		19	11 16 27	7.13 B	17
			50		16	9 17 18	4.84 B	22				70		20	15 19 43	NP	23
	523.5	Medium dense, gray, fine SAND --Saturated--								508.5	Very dense, gray SILT --Saturated--						
			55		17	1 3 7	NP	23				75		21	42 50/5	> 4.50 P	9
	518.5	Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel								503.5	Hard, gray SILTY CLAY LOAM, trace gravel						
			60		18	12 20 30	6.97 S	14				80		22	21 37 48	NP	22
										498.5	Dense to very dense, gray SILT to SILTY LOAM --Saturated--						

GENERAL NOTES

Begin Drilling **10-17-2013** Complete Drilling **10-17-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **52.50 ft**
 At Completion of Drilling ∇ **82.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1704-B-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.24 ft
 North: 1897908.23 ft
 East: 1171582.03 ft
 Station: 5156+77.85
 Offset: 32.3584 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	488.5	Hard, gray SILTY CLAY, trace gravel	85		23	17 20 23	NP	21									
					24	50/4	4.50 P	20									
	482.2	--ROLLER BIT REFUSAL-- --Possible BEDROCK--															
		Boring terminated at 93.00 ft															

GENERAL NOTES

Begin Drilling **10-17-2013** Complete Drilling **10-17-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **52.50 ft**
 At Completion of Drilling \blacktriangledown **82.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.52 ft
 North: 1897910.46 ft
 East: 1171681.80 ft
 Station: 5157+77.59
 Offset: 35.5253 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.5	12-inch thick ASPHALT --SHOULDER PAVEMENT--															
	572.5	Dense, gray and white LOAM, trace gravel --FILL--	1	X	1	17 18 16	NP	7					X	9	2 3 3	0.90 B	19
	570.0	Hard, dark brown SILTY CLAY LOAM, trace to little gravel --FILL--	5	X	2	5 6 8	6.56 B	17					X	10	1 2 3	0.75 P	20
	566.5	Loose, black to brown SANDY LOAM, trace gravel --FILL--	10	X	3	3 4 4	NP	21					X	11	2 1 2	0.49 B	25
	565.0	Stiff, brown and gray SILTY CLAY, trace gravel	10	X	4	2 3 4	1.31 B	19					X	12	2 2 3	0.49 B	28
	565.0	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	15	X	5	2 2 2	0.67 N/6	23					X	13	5 3 3	4.92 B	21
	557.5	Medium stiff, to stiff, gray SILTY CLAY LOAM, trace gravel	20	X	8	3 4 4	1.15 B	19					X	14	8 9 12	4.02 B	17
	550.0									550.0	Soft, gray CLAY to SILTY CLAY, trace gravel						
										543.8	Hard, gray SILTY CLAY LOAM, trace gravel						
											--1" SILT; moist-->						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-21-2013** Complete Drilling **10-21-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **54.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1704-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.52 ft
 North: 1897910.46 ft
 East: 1171681.80 ft
 Station: 5157+77.59
 Offset: 35.5253 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45	X	15	10 12 14	4.02 B	18				65	X	19	11 15 26	2.87 B	22
			50	X	16	19 34 22	6.01 B	10		508.8	Very dense, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	70	X	20	24 38 37	4.51 S	10
	521.5	Medium dense, gray SILTY LOAM, trace gravel --Wet--	55	X	17	4 4 6	NP	23				75	X	21	15 44 50/3	NP	15
	518.8	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel	60	X	18	16 12 14	4.50 P	16				80	X	22	28 50/5	3.85 S	9

GENERAL NOTES

Begin Drilling **10-21-2013** Complete Drilling **10-21-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **54.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1704-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.52 ft
 North: 1897910.46 ft
 East: 1171681.80 ft
 Station: 5157+77.59
 Offset: 35.5253 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	32 35 38	4.10 B	18									
	488.8	Very stiff, gray SILTY CLAY LOAM, trace gravel	90		24	16 13 18	2.96 B	18									
	483.8	Very dense, gray GRAVELLY SAND --WEATHERED BEDROCK--	95		25	50/4	NP	16									
	480.0	--ROLLER BIT REFUSAL-- Boring terminated at 95.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-21-2013** Complete Drilling **10-21-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **54.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.91 ft
 North: 1896943.83 ft
 East: 1171839.55 ft
 Station: 1819+14.23
 Offset: 7.9591 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.3	17-inch thick CONCRETE --PAVEMENT--															
	579.7	Dense, gray CRUSHED STONE --FILL--			1	23 18 14	NP	4			--In-Situ Vane Shear, 20.5 feet-- --S _{u undis} = 854.7 psf-- --S _{u remold} = 207.2 psf-- --Sensitivity = 4.13--			6 9	VS 1 1 1		
	577.4	Stiff, gray SILTY CLAY, trace gravel	5		2	2 2 3	1.64 B	33			--In-Situ Vane Shear, 23.0 feet-- --S _{u undis} = 492.1 psf-- --S _{u remold} = 181.3 psf-- --Sensitivity = 2.71--			7 10	VS 1 1 2		
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3	0.57 B	21			--In-Situ Vane Shear, 25.5 feet-- --S _{u undis} = 440.3 psf-- --S _{u remold} = 284.9 psf-- --Sensitivity = 1.54--			8 11	VS 0 0 2		
		--In-Situ Vane Shear, 8.0 feet-- --S _{u undis} = 1034.0 psf-- --S _{u remold} = 336.05 psf-- --Sensitivity = 3.07--			1	VS					--In-Situ Vane Shear, 28.0 feet-- --S _{u undis} = 880.6 psf-- --S _{u remold} = 103.6 psf-- --Sensitivity = 8.5--			9	VS		
		--In-Situ Vane Shear, 10.5 feet-- --S _{u undis} = 1189.1 psf-- --S _{u remold} = 620.4 psf-- --Sensitivity = 1.92--	10		4	1 2 3	0.74 B	20			--In-Situ Vane Shear, 31.5 feet-- --S _{u undis} = 259 psf-- --S _{u remold} = 25.9 psf-- --Sensitivity = 10.0--			12	0 1 2		
		--In-Situ Vane Shear, 13.0 feet-- --S _{u undis} = 1706.1 psf-- --S _{u remold} = 620.4 psf-- --Sensitivity = 2.75--			3	VS					--In-Situ Vane Shear, 36.5 feet-- --S _{u undis} = 1602.7 psf-- --S _{u remold} = 155.1 psf-- --Sensitivity = 10.33--			13	1 2 3		
		--In-Situ Vane Shear, 15.5 feet-- --S _{u undis} = 620.4 psf-- --S _{u remold} = 361.9 psf-- --Sensitivity = 1.71--	15		6	2 1 1	0.49 B	25						14	2 2 3		
		6-inch, gray SILTY LOAM, little gravel			7	1 2 2	0.25 B	28									
		--In-Situ Vane Shear, 18.0 feet-- --S _{u undis} = 543.9 psf-- --S _{u remold} = 336.7 psf-- --Sensitivity = 1.63--			5	VS											
			20		8	0 2 3	0.33 B	25									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-18-2013** Complete Drilling **06-20-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.91 ft
 North: 1896943.83 ft
 East: 1171839.55 ft
 Station: 1819+14.23
 Offset: 7.9591 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--In-Situ Vane Shear, 41.5 feet-- -- $S_{u\ undis}$ = 2171.4 psf-- -- $S_{u\ remold}$ = 1447.6 psf-- --Sensitivity = 1.5--			12	VS											
	540.2	Hard, gray SILTY CLAY LOAM, trace to little gravel	45		15	6 14 27	6.56 B	17				65		19	12 18 18	NP	11
			50		16	18 19 40	4.00 P	15		513.9	Hard, gray SILTY CLAY LOAM, trace gravel	70		20	9 23 30	NP	12
	528.9	Dense, gray SANDY LOAM, little gravel --MOIST--	55		17	24 17 28	NP	12				75		21	18 32 28	10.25 B	14
	526.2	Dense to very dense, gray SANDY GRAVEL	60		18	10 34 47	NP	23				80		22	28 36 37	2.48 B	16

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-18-2013** Complete Drilling **06-20-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1705-B-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.91 ft
 North: 1896943.83 ft
 East: 1171839.55 ft
 Station: 1819+14.23
 Offset: 7.9591 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING-- --Possible Cobbles--															
	494.9	Very dense, brown GRAVEL			23	50/5.5	4.50 P	11									
	492.9	--AUGER REFUSAL--			24	50/2	NP										
		Boring terminated at 90.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-18-2013** Complete Drilling **06-20-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1705-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.14 ft
 North: 1897114.28 ft
 East: 1171830.86 ft
 Station: 1820+84.67
 Offset: 1.9068 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	582.0	13-inch thick CONCRETE --PAVEMENT--															
	580.1	Medium dense, gray CRUSHED STONE --FILL--			1	14 11 6	NP	4						9	0 1 2	< 0.25 P	22
	577.6	Very stiff, gray SILTY CLAY, trace gravel			2	2 4 5	2.62 B	27						10	0 0 0	0.41 B	26
	572.6	Medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 3 5	0.98 B	25						11	0 0 0	0.33 B	27
	570.1	Soft, gray SILTY LOAM, trace gravel			4	1 2 2	0.66 B	21						12	0 0 2	0.41 B	25
	570.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	1 1 2	0.49 B	21						13	1 3 3	0.90 B	26
					6	0 0 1	0.41 B	26						14	1 2 1	0.41 B	29
					7	0 0 1	0.33 B	20									
					8	0 0 0	0.41 B	27									

--L_L(%)=38, P_L(%)=16--
 --%Gravel=1.9--
 --%Sand=10.7--
 --%Silt=49.3--
 --%Clay=38.0--
 --A-6 (19)--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-20-2013** Complete Drilling **06-21-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.14 ft
 North: 1897114.28 ft
 East: 1171830.86 ft
 Station: 1820+84.67
 Offset: 1.9068 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	541.4	Hard, gray SILTY CLAY LOAM, trace gravel																
			45	X	15	10 14 20	5.74 B	15				65	X	19	19 23 23			16
											--%Gravel=28.5-- --%Sand=49.5-- --%Silt=19.2-- --%Clay=2.9-- --A-1-b (0)--							
										516.4	Dense, gray GRAVEL							
			50	X	16	10 15 21	4.10 B	21				70	X	20	16 26 31			14
			55	X	17	12 18 27	10.09 B	15				75	X	21	5 20 34			5
										506.4	Dense, gray, medium to coarse SAND, trace gravel							
											--%Gravel=14.4-- --%Sand=68.5-- --%Silt=14.9--							
	524.1	Dense, gray GRAVELLY SANDY LOAM	60	X	18	11 14 18	NP	14				80	X	22	16 15 18			14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-20-2013** Complete Drilling **06-21-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.14 ft
 North: 1897114.28 ft
 East: 1171830.86 ft
 Station: 1820+84.67
 Offset: 1.9068 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	501.4	--%Clay=2.2-- --A-1-b (0)-- Very dense, gray GRAVEL															
	497.1	Strong, excellent rock quality, light gray, fresh, joint breaks with little to no infill, slightly vuggy DOLOSTONE --Run 1 - RECOVERY =100%-- --RQD=95%--			23	50/5	NP	21									
	487.1	Boring terminated at 96.00 ft			1												

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-20-2013** Complete Drilling **06-21-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1705-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.97 ft
North: 1897265.33 ft
East: 1171824.88 ft
Station: 1822+35.62
Offset: 5.8630 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick CONCRETE --PAVEMENT--															
	580.9																
	580.5	5-inch thick ASPHALT --PAVEMENT--															
	579.8	8-inch thick CRUSHED STONE --BASE COURSE--															
		Medium stiff to stiff, gray SILTY CLAY, trace gravel			1	13 6 3	NP B	15						9	0 0 1	0.49 B	25
					2	3 2 3	1.39 B	27				25		10	0 0 0	0.49 B	27
					3	1 2 4	0.98 B	23						11	0 0 0	0.25 B	25
					4	2 3 4	0.82 B	15						12	0 1 2	NA	31
					5	1 2 3	1.07 B	17									
	569.0	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			6	0 0 2	0.57 B	25						13	0 1 3	0.50 P	27
					7	0 0 2	0.57 B	26		545.2	Loose, gray SANDY LOAM, trace gravel --Wet--						
					8	0 1 2	< 0.25 P	26						14	4 3 4	NP	16

GENERAL NOTES

Begin Drilling **06-25-2013** Complete Drilling **06-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **37.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.97 ft
 North: 1897265.33 ft
 East: 1171824.88 ft
 Station: 1822+35.62
 Offset: 5.8630 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.2									520.2							
		Very stiff, gray SILTY CLAY LOAM, trace gravel			15	6 24 27	3.03 B	14			Hard, gray SILTY CLAY LOAM, trace gravel			19	15 29 42	6.48 B	14
	537.5		45							517.5		65					
		Stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel			16	9 13 16	1.72 B	14			Dense, gray, fine SAND		70	20	18 19 19	NP	13
		--L _L (%)=28, P _L (%)=14-- --%Gravel=1.8-- --%Sand=6.9-- --%Silt=71.9-- --%Clay=19.4-- --A-6 (11)--	50							515.2							
											Dense, gray medium SAND, trace gravel						
	530.2		55		17	15 24 30	NP	13		510.2				21	16 50/1	3.00 S	16
		Very dense, gray SANDY LOAM, trace gravel									Dense, gray SILT, little gravel						
										505.2				22	2 50/2	NP	12
			60		18	18 23 28	NP	14			Very dense, gray GRAVELLY SAND to GRAVELLY SANDY LOAM						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-25-2013** Complete Drilling **06-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **37.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.97 ft
 North: 1897265.33 ft
 East: 1171824.88 ft
 Station: 1822+35.62
 Offset: 5.8630 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	497.0		85	X	23	50/5	NP	13									
		Boring terminated at 85.00 ft															
			90														
			95														
			100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-25-2013** Complete Drilling **06-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **37.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1705-B-04

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.59 ft
 North: 1897425.71 ft
 East: 1171810.07 ft
 Station: 1823+96.68
 Offset: 5.3334 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14.5-inch thick CONCRETE --PAVEMENT--															
	579.4																
	579.13	1.3-inch thick ASPHALT															
	578.1	Loose, dark gray SANDY GRAVEL --BASE COURSE--			1	4 5 4	NP	4						9	0 1 1	0.16 B	27
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	1 2 3	0.49 B	22						10	0 2 2	0.49 B	22
					3	1 1 2	0.41 B	21						11	0 2 2	0.66 B	25
					4	1 1 2	0.33 B	26						12	0 2 2	0.33 B	25
					5	0 0 0	0.33 B	28									
					6	0 1 1	0.33 B	16						13	1 1 2	0.49 B	25
					7	0 0 2	0.33 B	24									
					8	0 1 2	0.25 B	23						14	0 1 1	0.08 B	28

GENERAL NOTES

Begin Drilling **07-02-2013** Complete Drilling **07-03-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.59 ft
 North: 1897425.71 ft
 East: 1171810.07 ft
 Station: 1823+96.68
 Offset: 5.3334 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	538.8									518.8	--HARD DRILLING-- --Possible Cobbles--						
		Hard, gray SILTY CLAY LOAM, trace gravel	45	X	15	7 9 14	4.10 B	19			Dense to very dense, gray GRAVELLY SAND	65	X	19	24 18 26	NP	5
			50	X	16	11 14 24	5.08 S	12			--HARD DRILLING-- --Possible Cobbles--	70	X	20	50/6	NP	5
	528.8	Dense, gray SILT								508.8	Very Dense, gray SILTY LOAM, trace gravel and cobbles						
			55	X	17	10 16 25	5.90 B	17			--L _L (%)=18, P _L (%)=14-- --%Gravel=12.9-- --%Sand=25.2-- --%Silt=56.7-- --%Clay=5.2-- --A-4 (0)-- --HARD DRILLING-- --Possible Cobbles--	75	X	21	79/6	NP	11
	523.8	Medium dense, gray, fine SAND with SILT and CLAY lamination --Wet--															
			60	X	18	6 6 9	NP	37				80	X	22	65/6	NP	17

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-02-2013** Complete Drilling **07-03-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

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 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.59 ft
 North: 1897425.71 ft
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 Station: 1823+96.68
 Offset: 5.3334 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	495.1	--HARD DRILLING-- --Possible Cobbles--															
		--AUGER REFUSAL--	85	⊗	23	63/3	NP	5									
		Boring terminated at 85.50 ft															
			90														
			95														
			100														

GENERAL NOTES

Begin Drilling **07-02-2013** Complete Drilling **07-03-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ▼ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.65 ft
 North: 1897590.86 ft
 East: 1171794.26 ft
 Station: 1825+62.58
 Offset: 4.2306 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.6	12-inch thick ASPHALT --PAVEMENT--								559.1							
	576.6	Loose, gray SANDY GRAVEL --FILL--			1	5 3 4	NP	4			Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			9	0 0 0	0.25 B	25
	576.6	Very soft to soft, gray CLAY to SILTY CLAY LOAM, trace gravel			2	0 0 0	< 0.25 P	18				25		10	1 1 2	0.41 B	25
			5		3	0 0 1	0.41 B	20						11	0 2 2	< 0.25 P	27
					4	0 0 0	0.25 B	21						12	0 0 1	0.41 B	25
			10		5	0 0 0	0.25 B	24									
					6	0 3 2	0.33 B	23									
			15		7	0 0 1	0.41 B	24									
		--L _L (%)=35, P _L (%)=15-- --%Gravel=5.8-- --%Sand=17.8-- --%Silt=48.3-- --%Clay=28.1-- --A-6 (14)--			8	0 0 0	NP	28									
	561.6	Very loose, gray LOAM								547.1	--Obstruction at 32.5 ft-- Boring terminated at 32.50 ft						
			20														

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

Begin Drilling **07-22-2013** Complete Drilling **07-22-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1705-B-07

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.23 ft
 North: 1897855.27 ft
 East: 1171688.90 ft
 Station: 1828+55.08
 Offset: 28.8337 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.3	11-inch thick, ASPHALT --PAVEMENT--															
		25-inch thick SANDY GRAVEL --BASE COURSE--			1	18 22 15	NP	4						9	0 0 0	0.33 B	26
	573.2	Stiff, gray SILTY CLAY, trace gravel			2	2 3 4	1.48 B	22				25		10	2 2 2	0.33 B	27
	570.7	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3	0.66 B	19						11	0 0 3	NA	
					4	0 1 2	0.49 B	26				30		12	0 0 0	0.49 B	26
					5	0 0 0	0.33 B	26									
					6	0 0 0	NA					35		13	2 3 6	1.75 P	16
					7	0 0 0	0.25 B	27									
					8	0 0 0	0.25 B	28				40		14	4 6 11	3.12 B	18
										544.5	Stiff to hard, gray SILTY CLAY LOAM, trace gravel						

--L_L(%)=38, P_L(%)=17--
 --%Gravel=2.0--
 --%Sand=13.4--
 --%Silt=51.3--
 --%Clay=33.2--
 --A-6 (17)--

GENERAL NOTES

Begin Drilling **07-24-2013** Complete Drilling **07-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.23 ft
 North: 1897855.27 ft
 East: 1171688.90 ft
 Station: 1828+55.08
 Offset: 28.8337 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	524.5	Medium dense, gray SILT	45	X	15	5 8 13	4.92 B	15				65	X	19	8 16 24	7.05 B	14
			50	X	16	6 13 17	6.07 B	18				70	X	20	24 36 42	4.50 P	15
	519.5	Hard, gray SILTY CLAY LOAM, trace gravel	55	X	17	4 7 9	NP	23				75	X	21	12 16 50/3	5.33 B	16
			60	X	18	13 15 20	4.84 B	14				80	X	22	11 18 25	NP	20
										499.5	Dense, gray SILT						

GENERAL NOTES

Begin Drilling **07-24-2013** Complete Drilling **07-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1705-B-07

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.23 ft
 North: 1897855.27 ft
 East: 1171688.90 ft
 Station: 1828+55.08
 Offset: 28.8337 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Gravel=0.4-- --%Sand=3.9-- --%Silt=88.1-- --%Clay=7.7-- --A-4 (0)--	85		23	14 19 24	NP	23									
	489.5	Very dense, gray SILTY LOAM, little gravel			24	50/5	NP	11									
	482.5	ROCK FRAGMENTS --HARD DRILLING-- --AUGER REFUSAL--			25	50/2	NP	15									
	481.2	Boring terminated at 95.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-24-2013** Complete Drilling **07-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ▽ **Rotary wash**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 573.57 ft
 North: 1898070.84 ft
 East: 1171576.26 ft
 Station: 1830+90.17
 Offset: 36.1195 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	573.25	25-inch thick ASPHALT --PAVEMENT--									--S _{u remold} = 543.9 psf-- --Sensitivity = 1.81--			5			
	572.49	9-inch thick CONCRETE --PAVEMENT--									--In-Situ Vane Shear, 23.0 feet-- --S _{u undis} = 1320.9 psf-- --S _{u remold} = 725.2 psf-- --Sensitivity = 1.82--			9	3 4 5	0.25 B	24
	570.6	Medium dense, brown, CRUSHED STONE --BASE COURSE--			1	9 9 12	NP	6						6			
		Stiff, gray SILTY CLAY, trace gravel			2	6 5 5	1.39 B	18			--In-Situ Vane Shear, 25.5 feet-- --S _{u undis} = 725.2 psf-- --S _{u remold} = 414.4 psf-- --Sensitivity = 1.75--			10	4 5 5	0.49 B	25
	568.1	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			3	2 1 1	0.41 B	24			--In-Situ Vane Shear, 28.0 feet-- --S _{u undis} = 595.7 psf-- --S _{u remold} = 284.9 psf-- --Sensitivity = 2.09--			11	3 4 4	0.33 B	26
		--In-Situ Vane Shear, 10.5 feet-- --S _{u undis} = 414.4 psf-- --S _{u remold} = 284.9 psf-- --Sensitivity = 1.45--			4	1 1 2	0.16 B	26		544.6	Medium dense, gray LOAM, trace gravel			12	3 6 10	NP	11
		--In-Situ Vane Shear, 13 feet-- --S _{u undis} = 466.2 psf-- --S _{u remold} = 233.1 psf-- --Sensitivity = 2.00--			5	1 1 2	0.16 B	26		541.8	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
		--In-Situ Vane Shear, 15.5 feet-- --S _{u undis} = 518.0 psf-- --S _{u remold} = 310.8 psf-- --Sensitivity = 1.66--			6	2 2 2	0.16 B	27						13	3 6 9	2.05 B	20
		--In-Situ Vane Shear, 18.0 feet-- --S _{u undis} = 984.2 psf-- --S _{u remold} = 310.8 psf-- --Sensitivity = 3.16--			7	2 2 3	0.25 B	27									
		--In-Situ Vane Shear, 20.5 feet-- --S _{u undis} = 984.2 psf--			8	3 4 4	0.25 B	23						14	9 13 18	3.85 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-08-2013** Complete Drilling **09-10-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 573.57 ft
 North: 1898070.84 ft
 East: 1171576.26 ft
 Station: 1830+90.17
 Offset: 36.1195 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	526.8	Very dense, gray SILTY LOAM, trace gravel	45	X	15	11 17 25	5.33 S	16		511.8	Very dense, gray SILT --Wet--	65	X	19	20 27 41	NP	22
	521.8	Very dense, gray SILT with sand lenses	50	X	16	25 27 32	NP	11		506.8	Very dense, gray SILTY LOAM, trace gravel	70	X	20	50/6"	NP	14
	518.8	Hard, gray SILTY CLAY, trace gravel	55	X	17	18 25 37	NP	20				75	X	21	50/6"	NP	12
			60	X	18	16 24 39	8.12 B	16		496.8	Very dense, gray SILT	80	X	22	36 50/6"	NP	21
											--%Gravel=0.0-- --%Sand=1.5-- --%Silt=86.1--						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-08-2013** Complete Drilling **09-10-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1705-B-08

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 573.57 ft
 North: 1898070.84 ft
 East: 1171576.26 ft
 Station: 1830+90.17
 Offset: 36.1195 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=12.4-- --A-4 (0)--															
	487.6	DOLOSTONE boulders	85		23	22 50/5"	NP	17			--Run 3 - RECOVERY= 100%-- --RQD= 65%--	105					
		--Run 1 - RECOVERY= 66%-- --RQD= 47%--									106.5ft-Qu=7500 psi --->						
		89.0ft-Qu=8880 psi --->									Boring terminated at 108.50 ft						
		--3-inch thick SILTY LOAM, trace gravel--															
	479.1	Strong, fair rock quality, light gray, fresh, joint breaks with little to no infill, slightly vuggy DOLOSTONE	95														
		95.5ft-Qu=9380 psi --->															
		--Run 2 - RECOVERY= 94%-- --RQD= 72%--															
		98.5ft-Qu=9080 psi --->															
		102.5ft-Qu=9750 psi --->															
			100														

GENERAL NOTES

Begin Drilling **09-08-2013** Complete Drilling **09-10-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1706-B-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.37 ft
 North: 1898150.62 ft
 East: 1171768.12 ft
 Station: 1105+20.19
 Offset: 0.3840' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.13	13-inch thick ASPHALT --PAVEMENT--															
	585.3	10-inch thick CONCRETE --PAVEMENT--															
		Medium dense, brown CRUSHED STONE --BASE COURSE--			1	7 12 8	NP	7						9	0 0 1	0.33 B	26
	583.1	Medium dense, brown, fine SAND --FILL--			2	4 4 7	NP	23				25		10	1 2 1	0.25 B	25
					3	3 4 4	NP	16						11	0 1 1	0.16 B	27
	579.2	Very stiff (2.5P), brown and gray SILTY CLAY LOAM, trace gravel --FILL--			4	1 2 3	0.57 B	22						12	2 1 2	0.16 B	26
	578.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	2 1 2	0.25 B	22						13	0 1 1	0.16 B	26
					6	1 2 3	0.74 B	19				35		14	1 1 1	0.41 B	26
					7	2 2 2	0.49 B	21									
					8	1 2 3	0.41 B	25				40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-16-2014** Complete Drilling **03-18-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA hours**
 Depth to Water ∇ **NA ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.37 ft
 North: 1898150.62 ft
 East: 1171768.12 ft
 Station: 1105+20.19
 Offset: 0.3840' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											--HARD DRILLING-- --Possible Cobbles--						
	524.6									524.6	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel						
			45		15	3 5 8	0.66 B	13				65		19	18 27 21	> 4.50 P	12
	539.6	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel															
			50		16	5 8 15	3.61 B	21			--HARD DRILLING-- --Possible Cobbles--	70		20	15 22 24	> 4.50 P	14
			55		17	8 9 19	5.08 B	15				75		21	15 24 32	> 10.25 B	13
	529.4	Very dense, gray GRAVELLY LOAM															
			60		18	15 40 25	NP	10				80		22	32 50	> 8.33 N/6	9

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

Begin Drilling **03-16-2014** Complete Drilling **03-18-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA hours**
 Depth to Water ∇ **NA ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.37 ft
 North: 1898150.62 ft
 East: 1171768.12 ft
 Station: 1105+20.19
 Offset: 0.3840' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	504.6	Very dense, gray GRAVELLY SILTY LOAM															
		--Wet-- --%Gravel=19.6-- --%Sand=26.3-- --%Silt=51.0-- --%Clay=3.1-- --A-4 (0)--			23	50/5	NP	11						27	50/3	NP	11
		--HARD DRILLING-- --Possible Cobbles--			24	50/5	NP	12		480.4	--HARD DRILLING-- --Possible Cobbles-- --WEATHERED BEDROCK-- --VERY HARD DRILLING--	105					
	494.6	Gray SILT								477.4							
		--Wet--															
	492.4	Hard, gray SILTY CLAY LOAM, to SILTY LOAM, trace gravel			25	27 24 38	5.00 S	16			Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, up to 18-inch beds, 8-inch joints spacing, horizontal and vertical joints with none to more than 0.2-inch infilling, up to 4-inch greenish gray argillaceous partings, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.	110					
											--Run 1 - RECOVERY=100%-- --RQD=76%--			1			
					26	13 26 40	4.92 S	17		467.4	Boring terminated at 119.00 ft	115					
												120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-16-2014** Complete Drilling **03-18-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA hours**
 Depth to Water ∇ **NA ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1706-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 573.51 ft
 North: 1898279.12 ft
 East: 1171636.73 ft
 Station: 1214+88.11
 Offset: 8.0782 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	572.2	16-inch thick ASPHALT --PAVEMENT--									--%Silt=49.0-- --%Clay=31.3-- --A-6 (12)--						
	570.3	Medium dense, white and gray CRUSHED STONE --BASE COURSE--			1	6 12 13	NP							9	0 0 1	0.49 B	25
	568.0	Very stiff, gray SILTY CLAY LOAM, trace gravel			2	2 4 4	3.28 B	19						10	0 1 2	< 0.25 P	27
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 1	0.41 B	16						11	1 2 3	< 0.25 P	24
					4	0 0 2	0.41 B	27						12	2 2 3	0.82 B	25
					5	0 1 1	0.41 B	27		541.8	Stiff to hard, gray SILTY CLAY, trace gravel						
					6	0 1 1	0.25 B	26						13	7 6 7	1.23 B	18
					7	0 1 1	0.41 B	25									
		--L _L (%)=34, P _L (%)=17-- --%Gravel=4.2-- --%Sand=15.6--			8	0 0 1	0.41 B	24						14	4 7 8	3.03 B	20

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-27-2014** Complete Drilling **03-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1706-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 573.51 ft
 North: 1898279.12 ft
 East: 1171636.73 ft
 Station: 1214+88.11
 Offset: 8.0782 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	524.0	Medium dense, gray SILT	45	X	15	4 6 18	2.87 B	18				65	X	19	15 20 27	9.02 S	16
	501.8	--Wet-- Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	50	X	16	5 15 13	4.10 B	16		501.8	--HARD DRILLING-- --Possible Cobbles-- Very dense, gray GRAVELLY SANDY LOAM	70	X	20	16 26 50/2	4.74 B	13
	516.8		55	X	17	7 7 8	NP	23				75	o	21	50/2	NP	
			60	X	18	15 20 27	6.97 S	13				80	X	22	50/3	NP	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-27-2014** Complete Drilling **03-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 573.51 ft
 North: 1898279.12 ft
 East: 1171636.73 ft
 Station: 1214+88.11
 Offset: 8.0782 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	491.8	--HARD DRILLING-- --Possible Cobbles--								471.5							
		Very dense, gray SILT, trace CLAY lamination									Boring terminated at 102.00 ft						
		--DRY--	85		23	20 33 28	NP	20				105					
	484.3	Very dense, gray GRAVELLY SAND	90		24	17 50 43	NP	16				110					
	481.5	Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, up to 12-inch beds, 9-inch joints spacing, horizontal and vertical joints with none to more than 0.2-inch infilling, up to 2-inch greenish gray argillaceous partings, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.	95		1							115					
		--Run 1 - RECOVERY=100%-- --RQD=83%--															
		--Run 2 - RECOVERY=97%-- --RQD=92%--	100		2							120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-27-2014** Complete Drilling **03-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.37 ft
 North: 1897868.08 ft
 East: 1171913.23 ft
 Station: 1705+72.43
 Offset: 55.5596 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.5	10-inch thick, brown SILTY LOAM															
		--TOPSOIL-- Hard, brown, SILTY CLAY LOAM, little gravel, wood and brick fragments			1	22 18 11	4.50 P	13						9	0 1 1	< 0.25 P	23
		--FILL--			2	5 6 7	2.71 S	17				25		10	0 0 0	0.25 B	19
	580.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 3 3	0.57 B	24						11	0 2 2	< 0.25 P	18
					4	0 1 2	0.33 B	25				30		12	0 1 2	0.41 B	25
					5	0 0 0	0.25 B	25									
					6	0 2 2	0.33 B	16				35		13	1 1 2	0.33 B	26
					7	0 0 1	0.33 B	26									
					8	1 1 1	0.25 B	24				40		14	0 1 1	0.33 B	26

GENERAL NOTES

Begin Drilling **10-01-2013** Complete Drilling **10-01-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **B. Wilson** Checked by **L. lordache**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **88.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.37 ft
 North: 1897868.08 ft
 East: 1171913.23 ft
 Station: 1705+72.43
 Offset: 55.5596 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	539.6	Very stiff, gray SILTY CLAY LOAM, trace gravel	45		15	0 1 2	0.25 B	29				65		19	11 18 24	5.90 S	17
	50				16	3 5 8	2.21 B	22				70		20	11 19 26	7.30 S	12
	55				17	8 10 22	3.00 P	16				75		21	50/2"	4.50 S	17
	529.6	Very stiff to hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	60		18	23 33 33	5.74 S	11				80		22	30 36 43	5.66 S	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-01-2013** Complete Drilling **10-01-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **B. Wilson** Checked by **L. lordache**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **88.50 ft**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 1710-B-02

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.37 ft
 North: 1897868.08 ft
 East: 1171913.23 ft
 Station: 1705+72.43
 Offset: 55.5596 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
										483.9	--HARD DRILLING-- --Possible Cobbles--						
											--ROLLER BIT REFUSAL-- Boring terminated at 102.50 ft						
			85		23	13 21 26	3.53 S	24				105					
	499.6	Very dense, gray GRAVELLY SAND															
		--possible underpressure groundwater bearing--	90		24	22 32 43	NP	12				110					
		--HARD DRILLING-- --Possible Cobbles--															
			95		25	50/4"	NP	6				115					
		--HARD DRILLING-- --Possible Cobbles--															
			100		26	50/3"	NP	11				120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-01-2013** Complete Drilling **10-01-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **B. Wilson** Checked by **L. lordache**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **88.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1710-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.04 ft
 North: 1897891.66 ft
 East: 1171988.13 ft
 Station: 1706+38.71
 Offset: 29.9313 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.8	2.5-inch thick ASPHALT over 9.5-inch thick CONCRETE --PAVEMENT--															
	586.0	Medium dense, white CRUSHED STONE aggregate --FILL--			1	6 5 7	NP	17						9	0 0 2	0.33 B	26
	584.0	Very stiff, gray SILTY CLAY LOAM, trace gravel --L _L (%)=32, P _L (%)=19-- --%Gravel=2.0-- --%Sand=16.6-- --%Silt=52.1-- --%Clay=29.3-- --A-6(10)--			2	3 3 4	3.61 B	19				25		10	0 2 1	0.33 B	26
	581.5	Very soft to medium stiff, gray CLAY to SILTY CLAY LOAM, trace gravel			3	2 2 2	0.82 B	20						11	0 2 1	0.16 B	25
					4	2 2 1	0.33 B	24				30		12	0 1 1	0.16 B	27
					5	0 1 1	0.25 B	28									
		--L _L (%)=33, P _L (%)=18-- --%Gravel=3.1-- --%Sand=17.5-- --%Silt=50.4-- --%Clay=29.0-- --A-6(11)--			6	0 0 1	0.16 B	25						13	0 2 2	0.08 B	26
					7	0 0 2	0.08 B	26									
					8	0 1 2	0.16 B	27				40		14	2 1 3	0.25 B	25

GENERAL NOTES

Begin Drilling **10-14-2013** Complete Drilling **10-14-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC-11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1710-B-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.04 ft
 North: 1897891.66 ft
 East: 1171988.13 ft
 Station: 1706+38.71
 Offset: 29.9313 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 1 2	0.25 B	27				65		19	18 26 28	6.89 S	15
	540.3	Stiff to very stiff, gray CLAY to SILTY CLAY, trace gravel	50		16	4 3 6	1.15 B	22			--L _L (%)=34, P _L (%)=18-- --%Gravel=4.0-- --%Sand=12.6-- --%Silt=47.9-- --%Clay=35.5-- --A-6(12)--	70		20	19 25 32	3.53 S	11
			55		17	5 7 10	3.12 B	16				75		21	15 18 26	7.79 S	13
	530.3	Hard, gray SILTY LOAM, trace gravel	60		18	22 32 34	4.59 S	8			--HARD DRILLING-- --Possible Cobbles--	80		22	50 50/3	> 4.50 P	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-14-2013** Complete Drilling **10-14-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1710-B-03

WEI Job No.: 1100-04-01

Client **AECOM**
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 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.04 ft
 North: 1897891.66 ft
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 Station: 1706+38.71
 Offset: 29.9313 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											--HARD DRILLING-- --Possible Cobbles--						
	484.5										--WEATHERED BEDROCK-- --ROLLER BIT REFUSAL--						
	483.5										Boring terminated at 103.50 ft						
		--L _L (%)=23, P _L (%)=15-- --%Gravel=5.2-- --%Sand=16.7-- --%Silt=62.3-- --%Clay=15.7-- --A-4(4)--	85		23	25 30 32	9.59 S	11				105					
	499.5	--HARD DRILLING--															
		Very dense, gray GRAVELLY SAND, trace cobbles															
		--possible underpressure groundwater bearing--															
			90		24	50 50/2	NP	12				110					
		--HARD DRILLING-- --Possible Cobbles--	95		25	50/3	NP	11				115					
	489.5																
		Very dense, gray SILTY LOAM, little gravel															
			100		26	50/3	NP	11				120					

GENERAL NOTES

Begin Drilling **10-14-2013** Complete Drilling **10-14-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1710-B-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.53 ft
 North: 1897833.15 ft
 East: 1171993.09 ft
 Station: 1706+11.06
 Offset: 21.6348' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	588.24	1/4" thick, ASPHALT --PAVEMENT--																
	587.5	8-inch thick, CONCRETE --SUB BASE--																
		Dense, brown and gray, fine SAND, little gravel --FILL--			1	12 22 18	NP	21						9	0 0 0	0.16 B	23	
	584.0	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			2	4 4 3	NP	21				25		10	0 0 0	0.25 B	26	
					3	3 3 5	1.64 B	21						11	0 0 0	0.16 B	26	
					4	2 3 4	0.82 B	19						12	0 0 0	0.16 B	26	
	578.0	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel --L _L (%)=33, P _L (%)=17-- --%Gravel=2.5-- --%Sand=18.0-- --%Silt=47.9-- --%Clay=31.6-- --A-6 (11)--			5	0 0 0	0.49 B	24										
					6	0 0 0	0.33 B	44						13	0 0 0	0.16 N/6		
					7	0 0 0	0.25 B	25										
					8	0 0 0	0.16 N/6							14	0 1 2	0.41 B	25	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-19-2014** Complete Drilling **02-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **3.50 ft**
 At Completion of Drilling **90.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1710-B-04

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.53 ft
 North: 1897833.15 ft
 East: 1171993.09 ft
 Station: 1706+11.06
 Offset: 21.6348' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	541.8	Stiff to hard, gray SILTY CLAY, trace gravel	45	X	15	0 3 3	0.33 B	26		526.8	--%Silt=46.6-- --%Clay=36.1-- --A-6 (13)-- Hard, gray SILT to SILTY LOAM, trace gravel	65	X	19	14 19 25	5.90 S	11
			50	X	16	5 5 5	1.64 B	22			--L _L (%)=21, P _L (%)=19-- --%Gravel=1.7-- --%Sand=10.5-- --%Silt=80.1-- --%Clay=7.6-- --A-4 (0)--	70	X	20	19 26 33	8.33 N/6	
			55	X	17	10 11 14	2.71 B	20				75	X	21	16 32 42	8.20 S	13
			60	X	18	7 13 20	4.35 B	19				80	X	22	50/5	NP	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-19-2014** Complete Drilling **02-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **3.50 ft**
 At Completion of Drilling **90.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1710-B-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
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 North: 1897833.15 ft
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 Station: 1706+11.06
 Offset: 21.6348' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	501.8	Very dense, gray GRAVELLY SAND to SANDY LOAM	85	23	32 40 28/3	9.84 S	11			485.5	Strong, light gray and white, fair rock mass quality, bedded, moderately vuggy porosity, fresh DOLOSTONE, up to 11-inch beds, 6-inch spaced joints, horizontal joints with 0.05 to more than 0.2-inch infilling, hard joint wall, with greenish gray argillaceous infill, and stylolitic surfaces.	105					
			90	24	50/3	NP	9				--Run 1 - RECOVERY=93%-- --RQD=55%--	110					
			95	25	50/3	NP	9			475.5	Boring terminated at 113.00 ft	115					
			100	26	50/5	NP	9					120					

--L_L(%)=20, P_L(%)=14--
 --%Gravel=7.6--
 --%Sand=21.8--
 --%Silt=58.4--
 --%Clay=12.1--
 --A-4 (1)--

CORR

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-19-2014** Complete Drilling **02-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **3.50 ft**
 At Completion of Drilling **90.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1712-B-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.47 ft
 North: 1897623.12 ft
 East: 1171520.05 ft
 Station: 1608+41.31
 Offset: 0.4228 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.32	32-inch thick ASPHALT --PAVEMENT--															
	576.5	10-inch thick CONCRETE --PAVEMENT--															
	576.0	CRUSHED STONE --BASE COURSE--			1	7 6 6	4.26 B	12						9	1 2 2	< 0.25 P	25
	574.5	Hard, black SILTY CLAY --FILL--															
		Very soft to medium stiff, CLAY to SILTY CLAY, trace gravel			2	4 3 3	0.66 B	16						10	1 2 3	0.25 B	25
					3	1 2 3	0.49 B	16						11	1 2 3	0.33 B	16
					4	1 2 3	0.33 B	20						12	2 2 3	0.33 B	26
					5	1 1 2	0.16 B	25									
					6	1 2 2	0.25 B	26		543.5	Loose, gray SILT			13	3 5 4	NP	23
					7	1 1 2	0.16 B	25		540.7	Very stiff to hard, gray SILTY CLAY, trace gravel						
					8	1 2 1	0.25 B	26						14	4 6 10	2.62 B	21

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-27-2013** Complete Drilling **10-28-2013**
 Drilling Contractor **GSG** Drill Rig **D-50 TMR [78%]**
 Driller **J&J** Logger **C. Davis** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **45.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.47 ft
 North: 1897623.12 ft
 East: 1171520.05 ft
 Station: 1608+41.31
 Offset: 0.4228 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	515.7	Hard, gray SILTY CLAY LOAM, trace gravel	45	X	15	4 7 10	4.35 B	13		515.7	Hard, gray SILTY CLAY LOAM, trace gravel	65	X	19	16 26 46	10.25 B	13
	510.7	Very dense, gray SILTY LOAM, little gravel	50	X	16	4 8 12	4.02 B	20		510.7	Very dense, gray SILTY LOAM, little gravel	70	X	20	34 50 50/4	NP	11
	525.7	Soft, gray CLAY with SILT lamination --Wet--	55	X	17	3 3 4	0.49 B	26			--HARD DRILLING-- --Possible Cobbles--	75	X	21	30 32 33	NP	12
	520.5	Loose, gray, coarse SAND, some gravel --Saturated--	60	X	18	7 3 3	NP	16			--HARD DRILLING-- --Possible Cobbles--	80	X	22	50/1		14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-27-2013** Complete Drilling **10-28-2013**
 Drilling Contractor **GSG** Drill Rig **D-50 TMR [78%]**
 Driller **J&J** Logger **C. Davis** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **45.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.47 ft
 North: 1897623.12 ft
 East: 1171520.05 ft
 Station: 1608+41.31
 Offset: 0.4228 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	492.0	--DIFFICULT DRILLING-- --WEATHERED BEDROCK--	85		23	50/2		11									
	490.5	Strong, light gray, good rock mass quality, bedded, fresh DOLOSTONE, 2- to 18-inch beds, 2- to 18-inch spaced joints, horizontal and vertical joints with less than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity, <1.5 inch vugs. --Run 1 - RECOVERY=100%-- --RQD=88%--	90						C O R E								
	480.5	Boring terminated at 97.00 ft	95		1												

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-27-2013** Complete Drilling **10-28-2013**
 Drilling Contractor **GSG** Drill Rig **D-50 TMR [78%]**
 Driller **J&J** Logger **C. Davis** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **45.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.30 ft
 North: 1897649.82 ft
 East: 1171680.84 ft
 Station: 1610+06.78
 Offset: 3.2187 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13.5-inch thick CONCRETE --PAVEMENT--															
	577.2																
	576.8	4-inch thick ASPHALT --PAVEMENT--															
		Medium dense, brown SANDY GRAVEL --BASE COURSE--			1	12 11 4	NP	9						9	0 0 0	0.16 B	22
	574.8				2	1 2 2	0.25 B	29						10	0 0 1	0.16 B	27
			5		3	0 0 0	0.16 B	21						11	0 0 2	0.33 B	23
					4	0 1 3	0.33 B	17						12	1 2 2	0.25 B	26
					5	1 1 2	0.57 B	22									
					6	0 0 1	0.16 B	25						13	1 2 1	0.41 B	28
			15		7	0 0 1	0.08 B	26		541.6	Very stiff, gray SILTY CLAY, trace gravel						
					8	0 0 0	0.16 B	26		538.8	Gray SANDY LOAM			14	5 13 18	2.62 B	16
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-15-2013** Complete Drilling **10-16-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **82.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1712-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.30 ft
 North: 1897649.82 ft
 East: 1171680.84 ft
 Station: 1610+06.78
 Offset: 3.2187 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	536.6	--Moist--								516.6							
		Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel			15	9 22 26	6.23 B	15		513.8	Gray, coarse SAND, some gravel			19	20 20 18	NP	12
		--L _L (%)=27, P _L (%)=16-- --%Gravel=8.1-- --%Sand=26.9-- --%Silt=51.7-- --%Clay=13.3-- --A-6(5)--	45							65	Very dense, gray SILTY LOAM, trace gravel			20	32 50/5	NP	11
			50		16	12 17 23	4.50 P	15		70				20	32 50/5	NP	11
	526.6	Very stiff, gray CLAY			17	4 7 9	2.62 B	25		75				21	24 44 50/3	9.59 S	12
		--L _L (%)=36, P _L (%)=19-- --%Gravel=0.1-- --%Sand=2.0-- --%Silt=49.4-- --%Clay=48.5-- --A-6(17)--	55							80				22	50/3	NP	16
	521.6	Medium dense, gray SANDY LOAM, trace gravel			18	4 6 9	NP	20									
		--Saturated--															
			60														

GENERAL NOTES

Begin Drilling **10-15-2013** Complete Drilling **10-16-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **57.00 ft**
 At Completion of Drilling **82.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.30 ft
 North: 1897649.82 ft
 East: 1171680.84 ft
 Station: 1610+06.78
 Offset: 3.2187 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	496.6	Very dense, gray SILT --Saturated--								477.3	Boring terminated at 101.00 ft						
		--%Gravel=0.0-- --%Sand=1.7-- --%Silt=91.5-- --%Clay=6.8-- --A-4(0)--	85		23	20 34 50	NP	19				105					
		--HARD DRILLING-- --Possible Cobbles--															
		--HARD DRILLING-- --Possible Cobbles--	90		24	30 50/5	NP	16				110					
	487.3	Strong, light gray, fair rock mass quality, thin bedded, fresh DOLOSTONE, 2- to 44-inch beds, 2- to 44-inch spaced joints, horizontal and vertical joints with less than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity, <0.5 inch vugs.															
		--Run 1 - RECOVERY=100%-- --RQD=71%--	95		1							115					
			100									120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-15-2013** Complete Drilling **10-16-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&R** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **57.00 ft**
 At Completion of Drilling ∇ **82.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 1712-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 584.78 ft
 North: 1898322.61 ft
 East: 1171738.21 ft
 Station: 1618+05.95
 Offset: 4.7838 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	583.8	3-inch thick, ASPHALT over 9-inch thick, CONCRETE --PAVEMENT--															
	582.5	Medium dense, grayish white SANDY GRAVEL --DRY-- --BASE COURSE--			1	12 11 9	NP	5						9	0 0 2	0.41 B	25
		Stiff, brown to gray SILTY CLAY LOAM, trace gravel --FILL--			2	2 4 5	1.50 N/6	8				25		10	0 0 1	0.49 B	25
					3	1 3 3	1.64 B	17						11	0 0 1	0.25 B	25
	576.8	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel			4	1 3 3	0.82 B	18						12	0 0 1	0.25 B	26
					5	0 0 2	0.57 B	23									
					6	0 1 2	0.57 B	22				35		13	0 1 1	0.41 B	25
					7	0 0 1	0.49 B	24									
					8	0 1 2	0.41 B	24				40		14	0 2 3	0.66 B	26

GENERAL NOTES

Begin Drilling **07-28-2014** Complete Drilling **08-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 584.78 ft
 North: 1898322.61 ft
 East: 1171738.21 ft
 Station: 1618+05.95
 Offset: 4.7838 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	538.0	Stiff to very stiff, gray SILTY CLAY, trace gravel	45	X	15	0 0 2	0.33 B	20		523.0	Medium dense, gray fine SAND, trace gravel --Dry-	65	X	19	10 8 13	NP	13
	518.0	Dense, gray SILTY LOAM, trace gravel --Dry-	50	X	16	3 6 9	1.00 P	21		518.0	Dense, gray SILTY LOAM, trace gravel --Dry-	70	X	20	13 15 28	NP	13
			55	X	17	2 5 10	2.87 B	17				75	X	21	14 17 26	NP	13
	528.0	Medium dense, gray SILTY LOAM, trace gravel	60	X	18	5 8 13	NP	21				80	X	22	18 27 50/4	NP	23

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-28-2014** Complete Drilling **08-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 584.78 ft
 North: 1898322.61 ft
 East: 1171738.21 ft
 Station: 1618+05.95
 Offset: 4.7838 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)			
	493.6	Very dense, gray, very fine to fine SAND --possible water bearing--		⊗	23	80/6	NP	13	[Patterned Soil Profile]		Very dense, greenish gray, shaly DOLOSTONE; moist to wet		⊗	27	100/4	NP	21			
				○	24	80/4	NR								○	28	100/3	NR		
					⊗	25	90/6	NP		10										
					○	26	100/5	NR												
	484.8		100							474.8	Boring terminated at 111.00 ft	110								

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-28-2014** Complete Drilling **08-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.37 ft
 North: 1897818.98 ft
 East: 1171530.45 ft
 Station: 1410+01.69
 Offset: 15.0642 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.2	2.2-inch thick ASPHALT --PAVEMENT--															
	574.2	12-inch thick CONCRETE --PAVEMENT--															
	573.4	10-inch thick CRUSHED STONE --BASE COURSE--			1	13 19 9	NP	5						9	0 1 2	0.25 B	26
	572.4	Brown SILTY LOAM --FILL--															
		Medium dense, gray SANDY LOAM --FILL--			2	7 6 5	NP	13						10	1 1 1	0.25 B	26
	569.9	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel															
					3	1 2 2	0.57 B	21						11	1 1 2	0.33 B	26
					4	1 2 2	0.57 B	21						12	1 2 2	0.49 B	28
					5	0 1 2	0.41 B	25		543.6	Stiff, gray SILTY CLAY, trace gravel						
					6	0 1 1	0.16 B	27						13	3 6 8	1.00 B	15
					7	0 1 1	0.25 B	27									
					8	1 1 1	0.25 B	27						14	6 5 13	1.50 P	23

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-27-2013** Complete Drilling **10-28-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **52.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1714-B-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.37 ft
 North: 1897818.98 ft
 East: 1171530.45 ft
 Station: 1410+01.69
 Offset: 15.0642 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)							
	533.6	Hard, gray SILTY CLAY LOAM, trace gravel	45	X	15	7 10 24	7.46 B	17		513.6	Hard, gray SILTY CLAY LOAM, trace gravel	65	X	19	12 16 33	5.66 S	15							
	523.6				16	9 11 18			4.67 N/6	27					508.6			Very dense, gray SILTY LOAM, trace gravel	70	X	20	22 27 33	4.43 S	11
	518.6				17	6 5 5								NP	22							498.6		
		18	18 40 8	NP	14		80				80	X	22			29 50/5	NP				19			

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-27-2013** Complete Drilling **10-28-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **52.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1714-B-04

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.37 ft
 North: 1897818.98 ft
 East: 1171530.45 ft
 Station: 1410+01.69
 Offset: 15.0642 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	474.9									474.9	Boring terminated at 100.50 ft						
			85	X	23	15 8 15	NP	23				105					
	488.9	Very dense, gray GRAVELLY SANDY LOAM															
		--HARD DRILLING-- --Possible Cobbles--	90	X	24	50/5	NP	14				110					
	484.9	Strong, light gray, fair rock quality, bedded DOLOSTONE, beds up to 12 inch, vuggy, joint spacing up to 12 inch, joints with less than 0.2 inch or no infilling, and stylolitic surfaces. --Run 1 - RECOVERY= 100%-- --RQD= 63%--															
			95									115					
			100		1							120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-27-2013** Complete Drilling **10-28-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **52.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1714-B-05

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.93 ft
 North: 1897789.86 ft
 East: 1171431.16 ft
 Station: 1408+97.61
 Offset: 6.5640 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	587.7	15-inch thick, black SILTY LOAM --TOPSOIL--															
		Hard, brown and gray SILTY CLAY LOAM, trace gravel and brick fragments --FILL--	5	X	1	8 20 20	4.50 P	15				25	X	9	1 1 2	0.16 B	27
			5	X	2	4 6 8	4.10 B	26				25	X	10	1 1 2	0.25 P	24
	582.7	Stiff, gray SILTY CLAY, trace gravel		X	3	3 3 4	1.07 B	22					X	11	1 2 3	0.25 B	28
	580.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10	X	4	2 2 4	0.57 B	23		560.9	Very stiff (2.0P), gray SILTY CLAY LOAM, little gravel		X	12	4 5 3	NP	12
			10	X	4	2 2 4	0.57 B	23		559.9	Loose, gray LOAM, some gravel	30	X	12	4 5 3	NP	12
				X	5	1 2 2	0.33 B	25		557.2	Soft medium stiff, gray CLAY to SILTY CLAY, trace gravel		X	13	2 2 4	0.25 P	27
			15	X	6	1 2 2	0.16 B	26				35	X	13	2 2 4	0.25 P	27
				X	7	2 2 3	0.41 B	21					X	14	2 2 3	0.83 N/6	28
			20	X	8	1 2 2	0.25 B	27				40	X	14	2 2 3	0.83 N/6	28

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-18-2014** Complete Drilling **04-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.93 ft
 North: 1897789.86 ft
 East: 1171431.16 ft
 Station: 1408+97.61
 Offset: 6.5640 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	547.2	Very stiff to hard, gray SILTY CLAY LOAM, trace to little gravel								527.2	Medium stiff, gray CLAY							
	45		15	6 7 7	3.03 B	16			65	19		4 4 4	0.90 B	29				
	522.2		Medium dense, gray SILT								519.9	Medium dense, gray SANDY LOAM, trace gravel						
	50			16	4 6 8	2.30 B	23		70	20	9 9 10		NP	20				
	517.2		Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel															
	55	17		6 10 15	4.10 B	15		75	21	12 28 29	8.69 B		15					
	60	18		9 16 23	5.33 B	20		80	22	16 23 31	6.07 B		13					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-18-2014** Complete Drilling **04-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.93 ft
 North: 1897789.86 ft
 East: 1171431.16 ft
 Station: 1408+97.61
 Offset: 6.5640 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	504.9										0.2 inch or no infilling, and stylolitic surfaces.						
											--Run 1 - RECOVERY= 90%-- --RQD= 62%--			2			
	504.9	Very dense, gray SILTY LOAM, trace gravel and cobbles	85		23	21 35	4.50 P	13									
		--HARD DRILLING-- --Possible Cobbles--															
		--HARD DRILLING-- --Possible Cobbles--															
	483.9	Boring terminated at 105.00 ft	105														
	492.9	--VERY HARD DRILLING-- --WEATHERED BEDROCK--															
	490.9	Strong, light gray, fair rock quality, bedded DOLOSTONE, beds up to 12 inch, vuggy, 6 inch joint spacing, joints with less than	100														

GENERAL NOTES

Begin Drilling **04-18-2014** Complete Drilling **04-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.39 ft
 North: 1898143.12 ft
 East: 1171931.11 ft
 Station: 1211+64.12
 Offset: 7.8377 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff to very stiff, brown SILTY CLAY LOAM															
		--FILL--															
					1	13 12 14	2.87 B	18						9	1 1 2	0.16 B	26
					2	4 3 5	1.00 P	25				25		10	1 1 2	0.33 B	24
	582.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 2	0.33 B	23						11	1 1 2	0.33 B	26
					4	1 1 2	0.41 B	23						12	2 1 2	0.33 B	27
					5	1 2 2	0.16 B	23									
					6	1 2 3	0.49 B	22						13	1 2 3	0.33 B	25
					7	1 2 2	0.57 B	25									
					8	1 1 3	0.41 B	25						14	2 3 5	0.33 B	25

GENERAL NOTES

Begin Drilling **03-04-2014** Complete Drilling **03-06-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.39 ft
 North: 1898143.12 ft
 East: 1171931.11 ft
 Station: 1211+64.12
 Offset: 7.8377 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	541.6	Very stiff hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	45		15	1 2 2	0.33 B	29				65		19	26 33 48	8.33 N/6	16	
	519.4		50		16	7 10 20	3.20 B	18		519.4	Very dense, gray SILTY LOAM, trace gravel --Moist--	70		20	26 46 28/3	NP	16	
	516.6			55		17	12 15 15	6.64 S	13		516.6	Hard, gray SILTY CLAY LOAM, trace gravel --L _L (%)=29, P _L (%)=16-- --%Gravel=1.6-- --%Sand=10.8-- --%Silt=63.8-- --%Clay=23.7-- --A-6 (10)--	75		21	17 30 48	8.33 N/6	15
	511.6			60		18	28 26 24	6.56 S	12		511.6	Very dense, gray SILTY LOAM, trace gravel	80		22	50/4	NP	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-04-2014** Complete Drilling **03-06-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

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WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.39 ft
 North: 1898143.12 ft
 East: 1171931.11 ft
 Station: 1211+64.12
 Offset: 7.8377 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
										485.4	--HARD DRILLING-- --Possible Cobbles--						
											--AUGER REFUSAL-- Boring terminated at 103.00 ft						
			85		23	35 45 20/1	NP	17				105					
		--L _L (%)=29, P _L (%)=16-- --%Gravel=4.7-- --%Sand=10.1-- --%Silt=57.1-- --%Clay=28.0-- --A-6 (9)--	90		24	24 50/5	NP	16				110					
			95		25	37 50/5	NP	23				115					
		--HARD DRILLING-- --Possible Cobbles--								491.4	Very dense, gray GRAVELLY SAND --possible water bearing--						
			100		26	50/3	NP	10				120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-04-2014** Complete Drilling **03-06-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1715-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.98 ft
 North: 1898224.57 ft
 East: 1171745.64 ft
 Station: 1105+89.73
 Offset: 39.7965 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.82	2-inch thick ASPHALT --PAVEMENT--															
	578.0	10-inch thick CONCRETE --PAVEMENT--															
		Loose, light brown CRUSHED STONE --BASE COURSE--			1	4 5 4	NP	10						9	0 1 2	0.25 B	27
	576.0	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	0 1 2	0.82 B	23						10	1 1 2	0.50 N/6	
			5		3	2 2 3	0.41 B	19						11	0 2 2	0.41 B	26
					4	2 2 3	0.49 B	22						12	1 1 2	0.57 B	26
					5	1 2 2	0.74 B	20									
					6	0 1 2	0.33 B	23						13	2 2 2	0.33 B	28
					7	1 1 2	0.33 B	26									
					8	1 1 2	0.25 B	26						14	4 6 9	0.67 B	18
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-23-2014** Complete Drilling **03-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **3.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **72.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.98 ft
 North: 1898224.57 ft
 East: 1171745.64 ft
 Station: 1105+89.73
 Offset: 39.7965 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	537.2	Very stiff, gray SILTY CLAY LOAM, trace gravel	45	X	15	7 7 7	3.36 B	22				65	X	19	20 31 42	4.59 S	14
			50	X	16	6 10 12	2.54 B	16				70	X	20	20 50/4	5.74 S	13
	527.2	Dense, gray SILT --Wet--	55	X	17	14 16 18	NP	16				75	X	21	30 50/4	NP	10
	522.2	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	60	X	18	18 24 27	8.19 S	12				80	X	22	50/5	NP	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-23-2014** Complete Drilling **03-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **3.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ∇ **72.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 1715-B-02

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.98 ft
 North: 1898224.57 ft
 East: 1171745.64 ft
 Station: 1105+89.73
 Offset: 39.7965 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING-- --Possible Cobbles--	85	○	23	50/3	NP										
		--HARD DRILLING-- --Possible Cobbles--		⊗	24	50/3	NP	10									
	486.0	--VERY HARD, STEADY DRILLING-- --WEATHERED BEDROCK-- --ROLLER BIT REFUSAL--															
	486.0	Boring terminated at 93.00 ft															
			95														
			100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **02-23-2014** Complete Drilling **03-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ▽ **3.00 ft**
 At Completion of Drilling ▾ **mud in the borehole**
 Time After Drilling **24 hours**
 Depth to Water ▾ **72.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.74 ft
 North: 1898289.14 ft
 East: 1171492.75 ft
 Station: 1216+42.65
 Offset: 33.3447 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick ASPHALT --PAVEMENT--															
	573.5	24-inch thick CRUSHED STONE --BASE COURSE--			1	5 6 6	NP							9	1 1 2	0.16 B	27
	573.24	Medium dense, brown SANDY GRAVEL --FILL--															
	571.5	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	4 2 3	0.25 P	26						10	0 0 1	0.16 B	25
			5														
					3	2 1 3	0.25 B	24						11	0 0 0	0.16 B	26
					4	1 1 2	0.41 B	25						12	1 2 3	0.49 B	27
			10														
					5	0 0 2	0.25 B	25									
					6	1 2 1	0.49 B	25						13	1 3 4	0.74 B	19
			15														
					7	1 1 1	0.33 B	27		538.0	Very stiff to hard, gray SILTY CLAY, trace gravel						
					8	0 0 0	0.25 B	26						14	6 8 10	5.41 B	15
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-19-2014** Complete Drilling **03-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **2.50 ft**
 At Completion of Drilling ∇ **62.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 1715-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.74 ft
 North: 1898289.14 ft
 East: 1171492.75 ft
 Station: 1216+42.65
 Offset: 33.3447 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	513.0	Gray SILT, trace gravel								513.0	Gray SILT, trace gravel						
		--Wet--															
	510.0	Hard (>4.5P), gray SILTY CLAY LOAM, trace gravel	45	X	15	4 8 14	3.69 B	19		510.0	Hard (>4.5P), gray SILTY CLAY LOAM, trace gravel	65	X	19	16 20 21	NP	20
	508.0	Very dense, gray SILTY LOAM, little to some gravel								508.0	Very dense, gray SILTY LOAM, little to some gravel						
		--L _L (%)=36, P _L (%)=18-- --%Gravel=0.5-- --%Sand=3.1-- --%Silt=59.8-- --%Clay=36.7-- --A-6 (18)--	50	X	16	5 9 10	2.87 B	24					X	20	50/5	NP	9
	523.0	Medium stiff, gray CLAY, trace gravel									--HARD DRILLING-- --Possible Cobbles--						
			55	X	17	4 5 6	0.75 P	27					X	21	50/5	NP	13
	518.0	Hard, gray SILTY CLAY LOAM, trace gravel								498.0	Hard, gray SILTY CLAY LOAM, trace gravel						
			60	X	18	10 12 16	9.35 S	15					X	22	33 50/4	7.30 S	10

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-19-2014** Complete Drilling **03-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **2.50 ft**
 At Completion of Drilling ∇ **62.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.74 ft
 North: 1898289.14 ft
 East: 1171492.75 ft
 Station: 1216+42.65
 Offset: 33.3447 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	490.7	Very dense, gray SILTY LOAM to SILT, trace gravel --Wet-- --L _L (%)=NP, P _L (%)=NP-- --%Gravel=0.1-- --%Sand=1.1-- --%Silt=92.6-- --%Clay=6.3-- --A-4 (0)--	85	23	13 19 28	NP	22											
			90	24	50/2	NP	19											
	483.2	--DIFFICULT DRILLING-- --WEATHERED BEDROCK--																
	480.7	--ROLLER BIT REFUSAL-- Boring terminated at 94.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-19-2014** Complete Drilling **03-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **2.50 ft**
 At Completion of Drilling \blacktriangledown **62.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 584.10 ft
 North: 1898363.96 ft
 East: 1171365.16 ft
 Station: 6404+45.17
 Offset: 0.9314 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	583.1	12-inch thick, dark brown SILTY LOAM --TOPSOIL--															
		Medium dense, brown SILTY LOAM, trace gravel and brick fragments			1	5 6 7	NP	15						9	0 0 3	0.49 B	23
	581.1	--FILL-- Stiff, brown SILTY CLAY LOAM, trace gravel			2	3 3 5	1.64 B	19				25		10	0 0 1	0.33 B	26
					3	2 2 4	1.00 N/6	19						11	0 0 1	0.25 B	27
	576.1	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	0 1 2	0.41 B	22				30		12	0 0 2	0.33 B	25
					5	0 1 2	0.50 N/6	22									
					6	0 1 2	0.49 B	22				35		13	1 2 3	0.33 B	26
					7	0 1 2	0.41 B	25									
					8	0 2 2	0.49 B	24				40		14	0 1 3	0.74 B	22

--L_L(%)=33, P_L(%)=17--
 --%Gravel=5.2--
 --%Sand=16.2--
 --%Silt=19.8--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-01-2014** Complete Drilling **04-01-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 11', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **82.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 584.10 ft
 North: 1898363.96 ft
 East: 1171365.16 ft
 Station: 6404+45.17
 Offset: 0.9314 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=28.7-- --A-6 (11)--															
	522.4	Medium dense, gray SILTY LOAM	45	X	15	1 2 4	0.82 B	25		522.4		65	X	19	7 8 11	NP	18
	537.4	Very stiff, gray SILTY CLAY, trace gravel	50	X	16	3 4 9	3.28 B	15		517.4	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	70	X	20	17 22 30	4.10 B	15
			55	X	17	3 6 11	2.83 N/6	22			--L _L (%)=25, P _L (%)=17-- --%Gravel=7.3-- --%Sand=6.7-- --%Silt=71.6-- --%Clay=14.3-- --A-4 (5)--	75	X	21	17 24 50/2"	9.85 S	14
			60	X	18	4 6 8	2.05 B	22		507.4	Gray GRAVELLY SAND	80	X	22	20 30 50/2"	NP	13
										505.1	Very dense, gray SILTY LOAM, occasional SAND lenses						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-01-2014** Complete Drilling **04-01-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 11', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **82.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 584.10 ft
 North: 1898363.96 ft
 East: 1171365.16 ft
 Station: 6404+45.17
 Offset: 0.9314 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	502.4	Very dense, gray, fine SAND															
			85	X	23	50/5"	NP	15		480.6	--ROLLER BIT REFUSAL-- Boring terminated at 103.50 ft	105					
	497.9	Hard, gray SILTY CLAY															
			90	X	24	12 20 34	6.15 B	21				110					
	492.4	Very dense, gray SILT															
			95	X	25	20 30 50/4"	NP	19				115					
			100	X	26	25 35 45	NP	22				120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-01-2014** Complete Drilling **04-01-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 11', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **82.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.94 ft
 North: 1899809.22 ft
 East: 1171258.81 ft
 Station: 8411+15.30
 Offset: 16.87 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.73	3.5-inch thick ASPHALT															
	592.9	8.5-inch thick CONCRETE --PAVEMENT--															
		Loose, gray CRUSHED STONE --BASE COURSE--			1	3 2 3	NP	6						9	0 1 1	0.66 B	21
	590.9	Loose to medium dense, brown, coarse SAND, trace gravel; moist --FILL--			2	4 4 3	NP	9						10	1 2 2	0.49 B	24
			5		3	2 6 12	NP	10						11	0 0 1	0.41 B	25
					4	50/5	NP	3						12	1 1 1	0.35 B	27
	583.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		5	2 3 3	0.89 B	23									
		--L _l (%)=42, P _l (%)=19-- --%Gravel=1.2-- --%Sand=8.5-- --%Silt=43.0-- --%Clay=47.3-- --A-7-6 (21)--			6	2 3 3	0.66 B	24						13	0 1 2	0.33 B	26
			15		7	4 3 4	0.57 B	25									
					8	2 3 3	0.66 B	22						14	1 2 2	0.49 B	23
			20														

GENERAL NOTES

Begin Drilling **09-21-2015** Complete Drilling **09-22-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **K&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 20' mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **Mud at 10 ft**
 Time After Drilling **24 hours**
 Depth to Water **24.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.94 ft
 North: 1899809.22 ft
 East: 1171258.81 ft
 Station: 8411+15.30
 Offset: 16.87 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 2 3	0.90 B	25				65		19	4 9 11	3.20 B	20
			50		16	1 3 4	0.66 B	28				70		20	7 7 10	2.13 B	25
	542.2	Stiff to very stiff, gray SILTY CLAY, trace gravel								522.2	Dense, gray SANDY LOAM, trace gravel; wet						
			55		17	4 5 7	1.97 B	21				75		21	10 15 24	NR	
			60		18	4 5 7	1.80 B	18				80		22	15 15 17	NP	12

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-21-2015** Complete Drilling **09-22-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **K&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 20', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **Mud at 10 ft**
 Time After Drilling **24 hours**
 Depth to Water **24.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.94 ft
 North: 1899809.22 ft
 East: 1171258.81 ft
 Station: 8411+15.30
 Offset: 16.87 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	512.2																
		Very dense, gray GRAVELLY SAND; wet to saturated															
		--HARD DRILLING-- possible cobbles	85		23	26 28 50/4	NP	13									
		losing mud															
					24	50/5	NP	13									
		--HARD DRILLING-- possible cobbles															
			95		25	70 50/4	NP	13									
		lost 600 gl of mud between 87.0 and 97.5 ft			26	60 50/4	NP	17									
	496.4	Boring terminated at 97.5 ft															
			100														

GENERAL NOTES

Begin Drilling **09-21-2015** Complete Drilling **09-22-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **K&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 20', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **Mud at 10 ft**
 Time After Drilling **24 hours**
 Depth to Water ∇ **24.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.01 ft
 North: 1899869.30 ft
 East: 1171404.59 ft
 Station: 8412+62.47
 Offset: 73.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.6	5-inch thick ASPHALT															
		10-inch thick CONCRETE															
	577.8	--PAVEMENT--															
		Very dense, gray CRUSHED STONE			1	21 29 25	NP	4						9	0 0 0	0.41 B	25
	575.8	--BASE COURSE--															
		Stiff, gray SILTY CLAY LOAM, trace gravel			2	6 4 6	1.80 B	20						10	0 0 1	0.41 B	26
	573.5																
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	0 0 1	0.33 B	23						11	0 1 1	0.33 N/6	
					4	0 2 3	0.57 B	18						12	4 5 5	0.90 B	25
					5	1 2 2	0.82 B	20									
					6	0 2 3	0.82 B	24						13	1 2 2	0.74 B	31
					7	1 2 2	0.82 B	24									
					8	0 1 2	0.57 B	24						14	3 3 5	1.80 B	22
										542.3	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-15-2015** Complete Drilling **09-20-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **K&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **Mud at 5 ft**
 Time After Drilling **120 hours**
 Depth to Water **2.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.01 ft
 North: 1899869.30 ft
 East: 1171404.59 ft
 Station: 8412+62.47
 Offset: 73.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	517.3									517.3	Very stiff, gray SILTY CLAY LOAM, trace gravel						
		--L _c (%)=27, P _L (%)=16-- --%Gravel=4.4-- --%Sand=21.2-- --%Silt=54.9-- --%Clay=19.5-- --A-6 (6)--	45	X	15	6 6 6	1.89 B	18				65	X	19	5 14 15	2.50 P	12
			50	X	16	5 8 13	3.61 B	21		512.3	Very dense, gray GRAVELLY SAND to SANDY LOAM; wet to saturated						
											--possible under pressure groundwater bearing layer-- --hard drilling, 69.5 to 73.5 feet-- possible cobbles	70	X	20	50/5	NP	15
			55	X	17	11 12 11	4.84 B	14				75	X	21	34 37 50/5	NP	13
	522.3	Medium stiff, gray CLAY to SILTY CLAY, trace gravel															
			60	X	18	0 0 1	0.74 B	27				80	X	22	50/4	NP	15
											--hard drilling, 73.5 to 78.5 feet-- possible cobbles						

GENERAL NOTES

Begin Drilling **09-15-2015** Complete Drilling **09-20-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **K&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10' mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **Mud at 5 ft**
 Time After Drilling **120 hours**
 Depth to Water **2.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2054-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.01 ft
 North: 1899869.30 ft
 East: 1171404.59 ft
 Station: 8412+62.47
 Offset: 73.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	497.8	Very dense, gray, fine SAND; saturated	85		23	32 47 47	NP	19			joints with less than 0.2 inch or no infilling, hard joint walls --Run 1 -RECOVERY= 83%-- --RQD= 25%-- Boring terminated at 100.00 ft	105					
	492.3	Very dense, gray SILT; saturated	90		24	18 30 42	NP	24				110					
	487.3	Very dense, gray GRAVELLY SAND; saturated	95		25	38 42 50/4	NP	11				115					
	483.0	--very hard, steady drilling-- --WEATHERED BEDROCK--															
	481.0	Strong, light gray, very poor rock quality, bedded, slightly vuggy DOLOSTONE, highly fragmented, 2-inch joint spacing,	100		1				CORE			120					

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-15-2015** Complete Drilling **09-20-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **K&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **Mud at 5 ft**
 Time After Drilling **120 hours**
 Depth to Water **2.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 2054-B-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.44 ft
 North: 1899739.53 ft
 East: 1171580.53 ft
 Station: 8414+35.27
 Offset: 60.48 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick, ASPHALT --PAVEMENT--															
	577.9	Very dense, white and brown SANDY GRAVEL --AGGREGATE BASE--			1	16 33 18	NP	3						9	0 0 2	0.16 B	26
	575.7	Very stiff, gray SILTY CLAY LOAM, trace gravel	5		2	10 4 4	3.49 B	15				25		10	0 0 1	0.33 B	25
	573.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 2	0.41 B	19						11	0 1 2	0.41 B	26
			10		4	3 3 2	0.90 B	16				30		12	2 6 11	0.25 P	21
					5	0 0 2	0.25 B	22									
			15		6	0 0 0	0.33 B	25						13	0 1 3	0.66 B	26
					7	0 0 0	0.16 B	26									
			20		8	0 0 0	0.33 B	26				40		14	2 3 4	0.90 B	20

--L_L(%)=37, P_L(%)=19--
 --%Gravel=1.8--
 --%Sand=13.8--
 --%Silt=48.4--
 --%Clay=35.9--35
 --A-6 (15)--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-13-2015** Complete Drilling **09-14-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Tomaras** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ∇ **66.75 ft**
 At Completion of Drilling ∇ **not observed**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2054-B-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.44 ft
 North: 1899739.53 ft
 East: 1171580.53 ft
 Station: 8414+35.27
 Offset: 60.48 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	532.7	Stiff to very stiff, gray SILTY CLAY, trace gravel	45		15	4 4 9	0.75 P	21		515.6	Dense, gray SANDY LOAM; wet interbedded SILT --hard drilling--	65		19	6 14 25	NP	13
			50		16	4 7 10	3.36 B	16		512.7	Very dense, gray SILT; wet to saturated	70		20	38 50/5	NP	16
			55		17	5 8 11	3.85 B	20				75		21	30 50/5	NP	18
			60		18	5 7 8	2.50 N/6					80		22	26 36 44	NP	25

GENERAL NOTES

Begin Drilling **09-13-2015** Complete Drilling **09-14-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Tomaras** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **66.75 ft**
 At Completion of Drilling ∇ **not observed**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.44 ft
 North: 1899739.53 ft
 East: 1171580.53 ft
 Station: 8414+35.27
 Offset: 60.48 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	492.7	Very dense, gray SANDY LOAM; saturated	85	X	23	31 37 36	NP	17			Strong, light gray, very poor rock quality, bedded, highly fragmented DOLOSTONE, 1-inch joint spacing, vertical and horizontal joints with more than 0.2 inch or no infilling, vuggy, with occasional stylolitic surfaces. --Run 1 -RECOVERY= 55%-- --RQD= 0%-- --poor rock RQD due to drilling issues--	105		1			
	487.7	Very dense, gray SILT; saturated	90	X	24	22 37 40	NP	17		469.4	Boring terminated at 110.00 ft	110					
			95	X	25	16 29 31	NP	16				115					
	479.4		100	X	26	50/5	NP	17				120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-13-2015** Complete Drilling **09-14-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&N** Logger **A. Tomaras** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ∇ **66.75 ft**
 At Completion of Drilling ∇ **not observed**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 595.62 ft
 North: 1898407.45 ft
 East: 1171767.90 ft
 Station: 8152+79.03
 Offset: 6.0657 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick CONCRETE --PAVEMENT--															
	594.2																
		9-inch thick CRUSHED STONE --BASE COURSE--			1	5 4 3	NP	6						9	2 2 2	0.41 B	23
	593.1																
		Medium dense, black and gray LOAM, trace gravel --FILL--			2	6 12 17	NP	11						10	2 2 1	0.49 B	23
			5														
	588.8				3	5 7 7	NP	12						11	1 2 2	0.57 B	25
		Very stiff (2.50 - 2.75 P), brown and gray SILTY CLAY LOAM with fine sand lenses, trace gravel --FILL--															
	586.6				4	3 4 28	NP	11						12	1 1 2	0.49 B	24
		Dense, black and gray LOAM to SILTY LOAM, trace gravel, brick, and wood --FILL-- <i>boring offset 3 feet south due to obstruction</i>															
	584.4				5	2 3 4	1.64 B	22									
		Stiff, gray SILTY CLAY LOAM, trace gravel															
					6	3 3 3	1.07 B	24						13	1 1 2	0.42 B	25
			15														
	580.1																
		Gray SILTY LOAM															
	579.1				7	1 2 1	0.66 B	18									
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel															
					8	2 2 2	0.49 B	21						14	1 2 1	0.33 B	27
			20														

GENERAL NOTES

Begin Drilling **04-22-2013** Complete Drilling **04-29-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 595.62 ft
 North: 1898407.45 ft
 East: 1171767.90 ft
 Station: 8152+79.03
 Offset: 6.0657 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	1 2 2	0.50 P	25				65		19	4 9 13	3.61 B	14
			50		16	2 2 2	0.41 B	26				70		20	5 10 15	4.10 B	22
	543.9	Medium stiff to hard, gray SILTY CLAY to CLAY, trace to little gravel															
		<i>thin, gray medium sand lenses</i>	55		17	2 3 10	0.82 B	17		521.5	Gray SILTY LOAM	75		21	5 9 10	3.03 B	18
										518.9	Hard, gray SILTY CLAY LOAM, trace gravel and seams of fine sand to silt						
			60		18	4 5 9	1.00 P	23				80		22	20 27 30	7.13 B	13

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-22-2013** Complete Drilling **04-29-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2055-B-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 595.62 ft
 North: 1898407.45 ft
 East: 1171767.90 ft
 Station: 8152+79.03
 Offset: 6.0657 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L _L (%)=26, P _L (%)=14-- --%Gravel=6.2-- --%Sand=22.1-- --%Silt=52.6-- --%Clay=19.1-- --A-6 (6)--	85	X	23	19 21 27	5.33 B	13									
	506.9	Very dense, gray, medium SAND, trace gravel		X	24	24 37 37	NP	14									
	503.6	Hard, gray SILTY CLAY LOAM, some gravel															
			95	X	25	50/3"	4.50 P	10									
	498.6	--HARD DRILLING--															
	497.6	Possible Boulders															
		--AUGER REFUSAL--															
		Boring terminated at 98.00 ft	100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **04-22-2013** Complete Drilling **04-29-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2055-B-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.03 ft
 North: 1898462.94 ft
 East: 1171413.63 ft
 Station: 8149+26.26
 Offset: 58.3388 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.5	6-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel and brick --FILL--			1	7 9 9	4.50 P	14									
			5		2	3 4 4	2.46 B	14				25		10	1 1 1	0.49 B	27
					3	4 5 5	2.50 P	16						11	0 2 1	0.49 B	27
	571.0	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	1 2 2	0.49 B	24				30		12	0 2 1	0.49 B	27
					5	0 2 1	0.41 B	25									
			15		6	0 2 2	0.57 B	26				35		13	1 1 2	0.49 B	26
					7	0 1 2	0.49 B	26		542.3	Medium stiff to very stiff, gray SILTY CLAY to CLAY, trace gravel						
			20		8	0 1 2	0.41 B	26				40		14	2 2 4	0.74 B	20

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-15-2013** Complete Drilling **05-16-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.03 ft
 North: 1898462.94 ft
 East: 1171413.63 ft
 Station: 8149+26.26
 Offset: 58.3388 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	517.3									517.3	Hard, gray SILTY CLAY LOAM, trace gravel						
			45	X	15	3 7 9	2.30 B	16				65	X	19	13 18 30	> 4.50 P	16
			50	X	16	4 8 11	2.46 B	18				70	X	20	13 23 32	> 10.25 B	15
			55	X	17	3 7 8	2.30 B	24		507.3	Very dense, gray SILT to SILTY LOAM, trace gravel			21	32 50/5"	NP	10
	522.3	Medium dense, gray SILT															
			60	X	18	2 4 6	NP	23				80	X	22	40 50/2"	NP	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-15-2013** Complete Drilling **05-16-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.03 ft
 North: 1898462.94 ft
 East: 1171413.63 ft
 Station: 8149+26.26
 Offset: 58.3388 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	26 38 44	NP	19									
	492.3	Hard, gray SILTY CLAY LOAM															
			90		24	18 21 35	8.20 B	14									
	487.3	Very dense, gray SANDY GRAVEL with dolostone clasts															
	485.0	Probably weathered DOLOSTONE			25	48	NP	13									
	484.0	--AUGER REFUSAL-- Boring terminated at 95.00 ft	95			50 1"											

GENERAL NOTES

Begin Drilling **05-15-2013** Complete Drilling **05-16-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 2055-B-04

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.69 ft
 North: 1898363.22 ft
 East: 1171499.16 ft
 Station: 8150+09.25
 Offset: 43.5063 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.7	5-inch thick ASPHALT over 7-inch thick CONCRETE --PAVEMENT--															
		Medium dense, brown SANDY GRAVEL --BASE COURSE--		X	1	5 9 9	NP	4					X	9	0 2 2	0.57 B	26
	572.7	Stiff, gray SILTY CLAY		X	2	3 2 3	1.07 B	20				25	X	10	0 1 2	0.49 B	25
	570.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		X	3	1 2 2	0.57 B	25					X	11	0 1 2	0.57 B	25
				X	4	1 1 2	0.57 B	24		547.7	Medium dense, gray, coarse SAND, little gravel		X	12	2 5 7	NP	15
				X	5	0 1 2	0.57 B	17		543.7	Medium dense, gray SANDY GRAVEL		X	13	8 8 9	NP	15
				X	6	0 2 2	0.66 B	25		540.9	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM to LOAM, trace to some gravel		X	14	4 7 10	2.46 B	21
		--L _L (%)=35, P _L (%)=15-- --%Gravel=4.3-- --%Sand=15.2-- --%Silt=48.0-- --%Clay=32.4-- --A-6 (15)--		X	7	0 1 2	0.57 B	26					X	14	4 7 10	2.46 B	21
				X	8	0 2 2	0.66 B	26					X	14	4 7 10	2.46 B	21

GENERAL NOTES

Begin Drilling **05-19-2013** Complete Drilling **05-20-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2055-B-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.69 ft
 North: 1898363.22 ft
 East: 1171499.16 ft
 Station: 8150+09.25
 Offset: 43.5063 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=50.5-- --%Clay=36.1-- --A-6 (16)--															
		--L _L (%)=22, P _L (%)=13-- --%Gravel=15.4-- --%Sand=31.5-- --%Silt=41.5-- --%Clay=11.6-- --A-4 (2)--	45	X	15	5 8 10	4.92 B	13		513.9	Hard, gray SILTY CLAY LOAM, trace gravel	65	X	19	12 21 29	9.89 B	14
			50	X	16	4 6 8	2.62 B	22		508.9	Very dense, gray SILT to SILTY LOAM, trace to some gravel	70	X	20	23 50/4"	NP	13
			55	X	17	5 8 12	3.36 B	10				75	X	21	36 50/3"	NP	12
	518.9	Medium dense, gray SILT	60	X	18	4 5 8	NP	25				80	X	22	50/5"	NP	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-19-2013** Complete Drilling **05-20-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2055-B-04

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WEI Job No.: 1100-04-01

Client **AECOM**
Project **Jane Byrne Interchange**
Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 575.69 ft
North: 1898363.22 ft
East: 1171499.16 ft
Station: 8150+09.25
Offset: 43.5063 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											with stylolitic surfaces, and moderately vuggy porosity.						
											--Run 1 - RECOVERY = 95% RQD = 53%			1			
			85		23	34 42 45	NP	22				105					
			90		24	22 40 45	NP	19			--Run 1 - RECOVERY = 98% --RQD = 53%						
	483.7	--HARD DRILLING-- Boulders, Sandy Gravel															
			95		25	50/2"	NR					115					
	478.7	--AUGER REFUSAL-- Strong, light gray, fair rock mass quality, bedded fresh DOLOSTONE, up to 18-inch beds, 1- to 18-inch spaced joints, horizontal and oblique joints with less than 0.2- to 3-inch greenish gray silty infilling, hard joint wall,															
			100									120					
											Boring terminated at 117.00 ft						

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GENERAL NOTES

Begin Drilling **05-19-2013** Complete Drilling **05-20-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P&N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ **Rotary wash**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 2055-B-05

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.97 ft
 North: 1898475.15 ft
 East: 1171596.44 ft
 Station: 8151+09.33
 Offset: 65.9333 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.8	14-inch thick ASPHALT --PAVEMENT--															
		Medium dense, brown SANDY GRAVEL --BASE COURSE--			1	18 17 9	NP	6						7	VS		
														9	0 2 2	0.25 B	25
	573.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	8 4 2	0.33 B	21						8	VS		
														10	0 2 2	0.25 B	25
		--In-Situ Vane Shear, 5.5 feet-- --S _{u undis} = 945.4 psf-- --S _{u remold} = 673.4 psf-- --Sensitivity = 1.40--			1	VS								9	VS		
					3	1 2 2	0.25 B	24						11	0 2 2	0.33 B	25
		--In-Situ Vane Shear, 8.0 feet-- --S _{u undis} = 1036 psf-- --S _{u remold} = 751 psf-- --Sensitivity = 1.38--			2	VS								12	2 2 2	0.57 B	24
					4	1 2 2	0.25 B	22									
		--In-Situ Vane Shear, 10.5 feet-- --S _{u undis} = 854.7 psf-- --S _{u remold} = 621.6 psf-- --Sensitivity = 1.375--			3	VS											
					5	1 1 2	0.25 B	24									
		--In-Situ Vane Shear, 13.0 feet-- --S _{u undis} = 1010 psf-- --S _{u remold} = 699 psf-- --Sensitivity = 1.44-- --L _L (%)=35, P _L (%)=15-- --%Gravel=3.8-- --%Sand=15.1-- --%Silt=47.7-- --%Clay=33.4-- --A-6 (15)--			4	VS											
					6	0 1 2	0.33 B	25						13	2 2 4	0.49 B	26
					5	VS											
					7	0 1 2	0.25 B	23		540.2	6-inch thick or more, gray sand lenses						
		--In-Situ Vane Shear, 15.5 feet-- --S _{u undis} = 1087.8 psf-- --S _{u remold} = 751.1 psf-- --Sensitivity = 1.448--			6	VS											
					8	1 1 2	0.16 B	25			Stiff to hard, gray SILTY CLAY to CLAY, trace gravel						
		--In-Situ Vane Shear, 18.0 feet-- --S _{u undis} = 932.4 psf--			8	VS								14	2 3 5	1.15 B	24
					20	1 1 2	0.16 B	25									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-21-2013** Complete Drilling **05-23-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P/N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 25', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC-11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2055-B-05

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.97 ft
 North: 1898475.15 ft
 East: 1171596.44 ft
 Station: 8151+09.33
 Offset: 65.9333 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=46.9-- --%Clay=42.3-- --A-6 (19)--															
	515.2	Hard, gray SILTY CLAY LOAM, trace gravel	45	X	15	6 9 13	4.35 B	11		515.2		65	X	19	10 18 23	10.25 B	15
	510.2	Very dense, gray SILTY LOAM to SILT, trace to some gravel	50	X	16	5 9 10	3.69 B	19		510.2		70	X	20	22 30 35	NP	20
		--HARD DRILLING--															
			55	X	17	4 5 7	1.07 B	26				75	○	21	50/5"	NR	
	520.2	Loose, gray SILT															
			60	X	18	3 4 5	NP	23				80	X	22	70/3"	NP	9

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-21-2013** Complete Drilling **05-23-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P/N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 25', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2055-B-05

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.97 ft
 North: 1898475.15 ft
 East: 1171596.44 ft
 Station: 8151+09.33
 Offset: 65.9333 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											0.2- to 2-inch greenish gray silty infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity. Run 1 - RECOVERY=98% RQD=82% 98.5ft-Qu=10300 psi --->			1			
			85		23	40 50/5"	NP	19				105					
										470.0	Boring terminated at 107.00 ft						
			90		24	14 25 48	NP	18				110					
		--HARD DRILLING-- dolostone clasts															
			95		25	50/5"	NP	18				115					
	481.0	Probably weathered DOLOSTONE															
	480.0	--AUGER REFUSAL--															
		Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, with shale partings, up to 18-inch beds, 1- to 18-inch spaced joints, horizontal joints with less than															
			100									120					

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GENERAL NOTES

Begin Drilling **05-21-2013** Complete Drilling **05-23-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P/N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 25', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 2055-B-06

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.52 ft
 North: 1898460.17 ft
 East: 1171341.21 ft
 Station: 8148+53.80
 Offset: 57.3869 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.15	15.5-inch thick ASPHALT --PAVEMENT--															
		Medium dense, gray CRUSHED STONE --BASE COURSE--			1	4 7 8	NP	8						9	0 1 2	0.25 B	27
	572.5	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	1 1 2	0.33 B	24				25		10	1 1 2	< 0.25 P	28
					3	0 1 1	0.25 B	25						11	1 2 2	0.49 B	26
					4	0 0 1	0.25 B	27						12	1 2 2	0.57 B	26
					5	0 1 1	0.25 B	26		543.8	Medium stiff to very stiff, gray SILTY CLAY to CLAY, trace gravel						
					6	0 1 1	0.25 B	25						13	1 2 6	0.66 B	21
					7	1 1 1	0.25 B	26									
					8	0 1 2	0.33 B	28						14	6 8 9	2.54 B	14

GENERAL NOTES

Begin Drilling **05-13-2013** Complete Drilling **05-15-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P/N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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 Fax: (630) 953-9938

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.52 ft
 North: 1898460.17 ft
 East: 1171341.21 ft
 Station: 8148+53.80
 Offset: 57.3869 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	513.8									513.8	Hard, gray SILTY CLAY LOAM, trace to little gravel						
			45		15	4 7 12	1.97 B	15				65		19	13 25 38	10.25 B	15
			50		16	5 7 10	2.95 B	22				70		20	14 23 27	8.04 B	15
		Possible cobble-rich layer									--HARD DRILLING--						
			55		17	4 6 7	1.75 P	22				75		21	47 50/5"	9.02 B	12
	518.8	Dense, gray SILTY LOAM, trace gravel								498.4	--HARD DRILLING-- Very dense, gray SILTY LOAM to SILT, trace to some gravel						
			60		18	8 16 23	NP	18				80		22	50/4"	NP	11

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **05-13-2013** Complete Drilling **05-15-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P/N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 2055-B-06

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.52 ft
 North: 1898460.17 ft
 East: 1171341.21 ft
 Station: 8148+53.80
 Offset: 57.3869 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											moderately vuggy porosity. Run 1 - RECOVERY = 98% RQD = 72% 97.5ft-Qu=10330 psi --->			1			
			85		23	29 40 33	NP	22				105					
										469.5	Boring terminated at 106.00 ft						
			90		24	19 23 28	NP	17				110					
	481.5	Probably weathered DOLOSTONE	95		25	25 50/2	NP	16				115					
	479.5	--AUGER REFUSAL--															
		Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, with shale partings, up to 18-inch beds, 1- to 18-inch spaced joints, horizontal and oblique joints with less than 0.2- to 1-inch greenish gray silty infilling, hard joint wall, with stylolitic surfaces, and	100									120					

GENERAL NOTES

Begin Drilling **05-13-2013** Complete Drilling **05-15-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **P/N** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 20-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.12 ft
 North: 1897711.41 ft
 East: 1171734.33 ft
 Station: 1610+87.80
 Offset: 31.0288 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13.5-inch thick CONCRETE --PAVEMENT--									gravel						
	576.0	4.5-inch thick ASPHALT --PAVEMENT--															
	575.8	Dense, white CRUSHED STONE --BASE COURSE--			1	26 30 11	NP	6						9	0 1 1	0.16 B	25
	573.9	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			2	2 1 1	0.25 B	27				25		10	0 1 2	0.16 B	26
					3	2 2 1	0.16 B	28						11	1 2 2	0.16 B	26
					4	1 1 2	0.41 B	24						12	2 2 1	0.57 B	27
					5	1 2 1	0.33 B	24									
					6	1 1 2	0.41 B	24						13	1 2 2	0.08 B	26
	561.6	Soft, gray SILTY CLAY LOAM, trace gravel --L _L (%)=31, P _L (%)=16-- --%Gravel=4.8-- --%Sand=16.1-- --%Silt=54.8-- --%Clay=24.3-- --A-6 (10)--			7	2 1 2	0.16 B	18		540.4	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
	559.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace			8	0 1 1	0.16 B	26						14	3 6 10	1.72 B	23

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-28-2013** Complete Drilling **11-03-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **CLM**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **56.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 20-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.12 ft
 North: 1897711.41 ft
 East: 1171734.33 ft
 Station: 1610+87.80
 Offset: 31.0288 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	520.4	Loose, gray SILT --Saturated--								500.4	Very dense, gray SILTY LOAM, trace gravel						
			45		15	7 8 15	5.74 B	13		515.4	--HARD DRILLING-- --Possible Cobbles-- Very dense, gray, coarse SAND	65		19	48 50/5	NP	11
		--L _L (%)=35, P _L (%)=18-- --%Gravel=1.0-- --%Sand=6.7-- --%Silt=53.8-- --%Clay=38.6-- --A-6 (16)--	50		16	6 9 12	3.94 B	20		510.6	--HARD DRILLING-- --Possible Cobbles-- Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	70		20	32 45 45	5.41 S	10
			55		17	6 8 9	1.56 B	21				75		21	20 18 35	7.30 S	17
			60		18	3 3 6	1.31 S	29				80		22	39 47 48	NP	15

GENERAL NOTES

Begin Drilling **10-28-2013** Complete Drilling **11-03-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **CLM**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **56.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 20-RWB-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.12 ft
 North: 1897711.41 ft
 East: 1171734.33 ft
 Station: 1610+87.80
 Offset: 31.0288 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--HARD DRILLING-- --Possible Cobbles--															
	495.4	Very dense, gray GRAVELLY SAND, some cobbles			23	50/1	NA										
			85														
					24	39 50/5	NP	11									
		--HARD DRILLING-- --Possible Boulders--															
	486.1	--ROLLER BIT REFUSAL-- Boring terminated at 91.00 ft															
			95														
			100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-28-2013** Complete Drilling **11-03-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **CLM**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ▽ **56.00 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 21-RWB-01

WEI Job No.: 1100-04-01

Client AECOM
 Project Jane Byrne Interchange
 Location Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
 Elevation: 585.23 ft
 North: 1897682.52 ft
 East: 1171760.80 ft
 Station: 1610+92.09
 Offset: 7.9354 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick CONCRETE --PAVEMENT--															
	584.1 583.93	3-inch thick ASPHALT --PAVEMENT--															
		CRUSHED STONE --BASE COURSE--			1	13 20 18	NP	8									
	582.0	Medium dense to very dense, brown GRAVELLY SAND --FILL--			2	9 10 5	NP	12									
			5														
					3	25 50/3	NP	12									
	577.2	Very dense, brown SILTY LOAM, trace gravel --FILL--			4	50/5	NP	16									
	576.3	--AUGER REFUSAL-- --Obstruction--															
		Boring terminated at 8.90 ft	10														
			15														
			20														

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GENERAL NOTES

Begin Drilling 10-13-2013 Complete Drilling 10-13-2013
 Drilling Contractor Wang Testing Services Drill Rig D-50 TMR [78%]
 Driller R&N Logger D. Kolpacki Checked by L. lordache
 Drilling Method 2.25" SSA, boring backfilled upon completion

WATER LEVEL DATA

While Drilling DRY
 At Completion of Drilling DRY
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 21-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 596.95 ft
 North: 1897705.23 ft
 East: 1171851.95 ft
 Station: 1611+67.44
 Offset: 53.9743 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	596.0	12-inch thick, brown LOAM, trace gravel --TOPSOIL-- Hard, gray CLAY LOAM, trace gravel --FILL--			1	13 11 11	7.79 S	16						9	1 1 1	< 0.25 P	25	
			5		2	5 9 11	5.33 S	13				25		10	0 0 0	0.16 B	22	
	591.5	Stiff to medium stiff, gray and brown, SILTY CLAY, trace gravel, slag, brick and wood --FILL--			3	2 2 4	1.23 B	19						11	0 0 0	0.16 B	25	
			10		4	2 3 4	1.15 B	19				30		12	0 0 0	0.25 B	25	
					5	3 5 5	0.98 B	21										
	584.0	Very stiff, brown and gray SILTY CLAY, trace gravel			6	3 5 7	3.53 B	25						13	0 0 0	< 0.25 P	26	
	581.5	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	0 2 2	0.66 B	24										
					8	1 1 2	< 0.25 P	29				40		14	0 1 3	0.49 B	25	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-25-2013** Complete Drilling **09-30-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 596.95 ft
 North: 1897705.23 ft
 East: 1171851.95 ft
 Station: 1611+67.44
 Offset: 53.9743 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.2	Stiff to hard, gray SILTY CLAY LOAM, trace gravel	45	✓	15	2 2 2	0.25 P	25		540.2	Stiff to hard, gray SILTY CLAY LOAM, trace gravel	65	○	19	11 10 16	4.33 N/6	
			50	✓	16	1 2 3	< 0.25 P	25				70	✓	20	10 12 19	4.76 B	19
			55	✓	17	1 3 3	0.66 B	21				75	✓	21	6 10 12	1.80 B	24
			60	✓	18	15 17 21	> 4.50 P	15				80	✓	22	6 8 10	3.00 N/6	19

GENERAL NOTES

Begin Drilling **09-25-2013** Complete Drilling **09-30-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 21-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 596.95 ft
 North: 1897705.23 ft
 East: 1171851.95 ft
 Station: 1611+67.44
 Offset: 53.9743 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	515.2										--HARD DRILLING-- --Possible Cobbles--							
		Very dense, gray SILTY LOAM, little to some gravel and cobbles			23	13 31 41	NP	14						27	50/4	NP	11	
			85								--HARD DRILLING-- --Possible Cobbles--	105						
										490.0	--ROLLER BIT REFUSAL-- Boring terminated at 107.00 ft							
			90		24	18 35 48	9.35 S	10				110						
			95		25	20 36 50/4	9.10 S	13				115						
		--HARD DRILLING-- --Possible Cobbles--																
			100		26	50/5	NR					120						

GENERAL NOTES

Begin Drilling **09-25-2013** Complete Drilling **09-30-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 21-RWB-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 591.97 ft
 North: 1897787.89 ft
 East: 1171858.64 ft
 Station: 1612+32.77
 Offset: 11.8407 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Very stiff to hard, brown CLAY LOAM, trace brick fragments --FILL--			1	3 4 8	3.50 P	11									
					2	5 5 7	3.12 B	14							0 0 0	0.33 B	23
		--3-inch thick, red, crushed Brick--			3	13 8 6	NP	19							0 1 2	0.45 B	26
					4	5 5 7	6.56 B	15							2 2 2	< 0.25 P	25
	581.5	Stiff, gray SILTY CLAY, trace gravel			5	2 3 4	1.97 B	23									
	579.0	Very soft to medium stiff, gray CLAY, trace gravel			6	2 1 3	0.57 B	25							1 2 2	0.57 B	24
					7	2 1 2	0.49 B	25									
					8	2 2 2	< 0.25 P	28							2 3 3	0.49 B	25

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 21-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 591.97 ft
 North: 1897787.89 ft
 East: 1171858.64 ft
 Station: 1612+32.77
 Offset: 11.8407 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 3 3	< 0.25 P	27				65		19	15 17 24	4.10 B	27
			50		16	0 2 2	0.41 B	28				70		20	16 17 20	8.53 B	12
	540.2	Very stiff to hard, SILTY CLAY to SILTY CLAY LOAM, trace gravel								520.2	Dense, gray SILT						
			55		17	4 5 8	1.48 B	22				75		21	20 26 23	NP	21
										515.2	Hard, gray SILTY CLAY LOAM, trace gravel						
			60		18	14 12 15	3.00 P	16				80		22	19 20 28	8.61 S	14

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 591.97 ft
 North: 1897787.89 ft
 East: 1171858.64 ft
 Station: 1612+32.77
 Offset: 11.8407 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	510.2	Very dense, gray SILT --HARD DRILLING--	85	23	23	31 32 50/5	NP	15		490.2	Very dense, weathered DOLOSTONE fragments --WEATHERED BEDROCK--	27	27	50/1	NP		
	505.2	Very dense, gray SILTY LOAM, trace gravel	90	24	23 33 29	6.81 S		21		487.5	--ROLLER BIT REFUSAL--						
			95	25	66/6 44/3	NP		15		487.0	--BEDROCK--	105					
	495.2	--HARD DRILLING-- Very dense, brown SANDY GRAVEL --possibly underpressure groundwater bearing--	100	26	30 70/6	NP		6			Boring terminated at 104.50 ft						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 21-RWB-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.85 ft
 North: 1897850.59 ft
 East: 1171897.08 ft
 Station: 1613+02.29
 Offset: 21.9615 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	587.45	1/2-inch thick, black SILTY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY LOAM, trace gravel --FILL--			1	5 6 7	4.51 S	16									
			5		2	5 3 5	3.50 P	18				25					
	582.4	Stiff, brown and gray SILTY CLAY, trace gravel			3	3 3 3	1.97 B	22									
	579.9	Very soft to medium stiff, brown CLAY to SILTY CLAY, trace gravel			4	1 1 2	0.57 B	23				30					
					5	1 1 2	0.41 B	25									
			15		6	1 1 2	0.33 B	24				35					
					7	1 1 2	0.33 B	23									
			20		8	0 1 1	0.16 B	26				40					

--L_L(%)=34, P_L(%)=17--
 --%Gravel=7.3--
 --%Sand=16.1--
 --%Silt=47.5--
 --%Clay=29.0--
 --AASHTO--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
 Drilling Contractor **K&S** Drill Rig **D-120 TMR**
 Driller **R&E** Logger **F. Bozga** Checked by **L. lordache**
 Drilling Method **4.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 21-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.85 ft
 North: 1897850.59 ft
 East: 1171897.08 ft
 Station: 1613+02.29
 Offset: 21.9615 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	1 2 3	0.33 B	26				65		19	26 25 30	5.66 S	13
			50		16	3 5 8	0.66 B	20			--HARD DRILLING-- --Possible Cobbles--	70		20	38 50/5"	NP	15
	536.1	Very stiff, gray SILTY CLAY, trace gravel	55		17	4 7 11	3.28 B	22				75		21	12 19 29	8.04 S	13
	531.1	Dense to very dense, gray SILTY LOAM to SILTY CLAY LOAM, trace to little gravel	60		18	16 26 38	6.23 S	14				80		22	22 50/5"	NP	11

GENERAL NOTES

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
 Drilling Contractor **K&S** Drill Rig **D-120 TMR**
 Driller **R&E** Logger **F. Bozga** Checked by **L. lordache**
 Drilling Method **4.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 21-RWB-04

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.85 ft
 North: 1897850.59 ft
 East: 1171897.08 ft
 Station: 1613+02.29
 Offset: 21.9615 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	19 25 31	NP	10									
			90		24	50/5"	NP	11									
	496.6	Dense, gray SANDY GRAVEL															
			95		25	11 21 19	NP	13									
	492.9	Boring terminated at 95.00 ft															

GENERAL NOTES

Begin Drilling **09-23-2013** Complete Drilling **09-23-2013**
 Drilling Contractor **K&S** Drill Rig **D-120 TMR**
 Driller **R&E** Logger **F. Bozga** Checked by **L. lordache**
 Drilling Method **4.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 21-RWB-05

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.32 ft
 North: 1897919.78 ft
 East: 1171915.09 ft
 Station: 1613+69.21
 Offset: 25.0245 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	582.95	5-inch thick, white CRUSHED STONE															
		--FILL--															
		Hard, gray and brown CLAY LOAM, trace gravel			1	6 9 9	6.56 S	15						9	2 2 4	0.82 B	23
		--FILL--															
	580.3	Medium stiff to stiff, gray SILTY CLAY, trace gravel			2	2 2 2	0.82 B	20				25		10	2 3 3	0.74 B	23
					3	1 3 3	1.23 B	17						11	2 2 3	0.66 B	24
	575.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	0 2 1	0.41 B	25						12	3 4 6	0.66 B	23
					5	0 0 0	0.41 B	26									
					6	0 0 2	0.57 B	22				35		13	2 3 3	0.49 B	25
					7	2 3 2	0.66 B	22									
					8	0 2 3	0.74 B	24						14	3 3 4	0.41 B	23

GENERAL NOTES

Begin Drilling **09-24-2013** Complete Drilling **09-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 21-RWB-05

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.32 ft
 North: 1897919.78 ft
 East: 1171915.09 ft
 Station: 1613+69.21
 Offset: 25.0245 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	541.6	Stiff to hard, gray SILTY CLAY LOAM, trace gravel	45	X	15	2 4 8	1.23 B	18				65	X	19	10 16 21	6.81 S	14
			50	X	16	6 12 18	4.26 B	15		516.6	Very dense, gray SILTY LOAM, trace to some gravel	70	X	20	15 25 30	9.02 S	11
	531.6	Gray, coarse SAND															
	529.6	Hard, gray SILTY CLAY LOAM, trace gravel	55	X	17	13 15 21	5.66 B	14				75	X	21	41 60/3	NP	10
			60	X	18	16 24 31	7.13 S	11				80	X	22	34 45 20/2	8.69 S	10

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-24-2013** Complete Drilling **09-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 21-RWB-05

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.32 ft
 North: 1897919.78 ft
 East: 1171915.09 ft
 Station: 1613+69.21
 Offset: 25.0245 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	501.6	Very dense, gray SANDY LOAM, trace gravel --HARD DRILLING-- --Possible Cobbles--								482.3	--WEATHERED BEDROCK-- --ROLLER BIT REFUSAL--							
										481.3	Boring terminated at 102.00 ft							
			85	X	23	78/6" 22/1"	NP	9				105						
			90	X	24	64 45/6"	NP	13				110						
	491.6	Very dense, gray GRAVELLY SILTY LOAM, trace to some cobbles --HARD DRILLING-- --Possible Cobbles--																
				95	X	25	100/6"	1.31 S	13				115					
				100	X	26	64 40/2"	0.49 S	9				120					

GENERAL NOTES

Begin Drilling **09-24-2013** Complete Drilling **09-25-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Tomaras** Checked by **L. lordache**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 22-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.62 ft
 North: 1898185.65 ft
 East: 1171879.86 ft
 Station: 1212+29.37
 Offset: 21.9731 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.4	15-inch thick, black and brown SILTY LOAM --TOPSOIL--															
		Hard, brown CLAY LOAM, trace gravel --FILL--			1	7 8 10	4.50 P	16						9	1 2 2	0.41 B	26
	584.6	Very stiff, gray SILTY CLAY LOAM, trace gravel			2	3 4 6	2.05 B	18				25		10	1 2 2	0.25 B	27
	582.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 3	0.57 B	24						11	2 2 2	< 0.25 P	27
					4	1 1 2	0.25 B	25				30		12	2 1 2	0.25 B	26
					5	1 2 2	0.41 B	26									
		--L _L (%)=32, P _L (%)=18-- --%Gravel=2.5-- --%Sand=15.0-- --%Silt=57.1-- --%Clay=25.4-- --A-6 (10)--			6	1 2 2	0.41 B	23						13	1 2 2	0.16 B	26
					7	2 2 3	0.33 B	21									
					8	2 2 3	0.57 B	21				40		14	2 2 4	< 0.25 P	26

GENERAL NOTES

Begin Drilling **03-07-2014** Complete Drilling **03-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.62 ft
 North: 1898185.65 ft
 East: 1171879.86 ft
 Station: 1212+29.37
 Offset: 21.9731 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.9	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel	45	X	15	2 2 3	0.16 B	29		525.9	--%Silt=54.1-- --%Clay=33.9-- --A-6 (14)-- Very dense, gray, coarse SAND, little gravel --Moist--	45	X	19	35 50/5	NP	20
			50	X	16	5 9 12	3.50 P	22		523.3	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	65	X	20	25 33 37	4.50 P	13
			55	○	17	10 9 16	4.17 N/6					75	X	21	16 27 38	7.38 B	17
			60	X	18	8 10 22	2.30 B	21		510.6	--HARD DRILLING from 77 ft-- --Possible Cobbles-- Very dense, gray SILTY LOAM, trace gravel	80	X	22	50/0	NP	
		--L _L (%)=35, P _L (%)=18-- --%Gravel=1.8-- --%Sand=10.2--															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-07-2014** Complete Drilling **03-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 587.62 ft
 North: 1898185.65 ft
 East: 1171879.86 ft
 Station: 1212+29.37
 Offset: 21.9731 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	484.6									484.6	--VERY HARD, STEADY DRILLING-- --WEATHERED BEDROCK-- --ROLLER BIT REFUSAL-- Boring terminated at 103.00 ft						
			85	⊗	23	50/5	NP	14									
			90	⊗	24	50/2	NP	11									
			95	⊗	25	50/4	3.69 S	16									
	491.4	Very dense, gray SANDY GRAVEL; wet --possible water bearing--															
	487.6		100	⊗	26	50/2	NP					120					

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **03-07-2014** Complete Drilling **03-10-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **N&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.36 ft
 North: 1898208.77 ft
 East: 1171849.77 ft
 Station: 1212+66.85
 Offset: 28.4715 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.13	13-inch thick, brown SILTY LOAM --TOPSOIL-- Hard, brown SILTY CLAY LOAM, trace gravel --FILL--			1	3 4 6	4.10 B	21						9	1 1 2	0.41 B	26
	583.4	Stiff to very stiff, gray SILTY CLAY, trace gravel	5		2	3 4 5	2.87 B	20				25		10	2 2 2	0.49 B	26
					3	2 3 3	1.56 B	22						11	2 1 2	0.41 B	27
	578.4	Soft, gray CLAY, trace gravel	10		4	1 1 2	0.33 B	25				30		12	1 2 3	0.41 B	25
					5	1 1 2	0.33 B	25									
	573.4	Medium stiff, gray SILTY CLAY LOAM, trace gravel	15		6	1 2 4	0.57 B	17				35		13	1 2 3	0.41 B	25
	570.9	Soft, gray CLAY to SILTY CLAY, trace gravel			7	1 2 3	0.41 B	25									
					8	2 2 4	0.41 B	22				40		14	1 2 3	0.25 P	26

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-05-2014** Complete Drilling **08-05-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.36 ft
 North: 1898208.77 ft
 East: 1171849.77 ft
 Station: 1212+66.85
 Offset: 28.4715 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	543.9	--HARD DRILLING at 42.5 ft-- --Possible Cobbles--								524.6	Very dense, gray SANDY LOAM, trace gravel						
		Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel	45	X	15	2 4 5	1.50 N/6	18			--Moist--	65	X	19	13 19 35	NP	11
			50	X	16	5 9 12	2.87 B	18									
			55	X	17	9 11 14	2.62 B	14									
	529.6	Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel and sand seams	60	X	18	13 19 35	3.69 S	13			Boring terminated at 65.00 ft	80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-05-2014** Complete Drilling **08-05-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 22-RWB-05

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 594.37 ft
 North: 1898339.83 ft
 East: 1171837.02 ft
 Station: 6332+29.43
 Offset: 43.1182 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.2	14-inch thick, dark brown SILTY LOAM --TOPSOIL--															
		Very loose to dense, brown GRAVELLY SAND --FILL--			1	5 7 3	0.50 P	20						9	1 1 2	0.41 B	26
					2	4 4 2	NP	9		571.4	Stiff, gray, SILTY CLAY, trace gravel			10	1 3 3	1.15 B	20
					3	8 1 2	NP	31		568.9	Soft, gray CLAY, trace gravel			11	1 2 4	0.41 B	23
		--Rubble--			4	4 14 33	NP	20						12	1 2 3	0.25 P	24
					5	7 5 3	NP	29									
	581.4	Soft, gray CLAY, trace gravel			6	1 2 2	0.41 B	24						13	1 2 3	0.25 P	27
	578.9	Loose, brown, coarse SAND --MOIST--			7	4 4 3	NP	23									
	576.4	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			8	1 3 3	< 0.25 P	24						14	1 2 3	0.41 B	25

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-06-2014** Complete Drilling **08-06-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 22-RWB-05

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 594.37 ft
 North: 1898339.83 ft
 East: 1171837.02 ft
 Station: 6332+29.43
 Offset: 43.1182 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	537.6	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	45	X	15	3 3 5	0.49 B	25		529.4	Boring terminated at 65.00 ft	65	X	19	6 10 15	2.62 B	14
	50		X	16	2 4 5	0.25 P	27		70								
	55		X	17	1 4 4	0.33 B	31		75								
	60		X	18	8 13 17	3.69 B	17		80								

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-06-2014** Complete Drilling **08-06-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 591.45 ft
 North: 1898483.08 ft
 East: 1171736.91 ft
 Station: 6334+07.09
 Offset: 20.9958 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	591.14	14-inch thick, black SILTY LOAM --TOPSOIL-- Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace gravel			1	P U S H	3.50 P	16		575.5	Boring terminated at 16.00 ft			8	S H	0.25 P	22	
					2	P U S H	3.00 P	18										
			5		3	P U S H	1.00 P	22				20						
	585.9	Very soft to soft, gray CLAY to SILTY CLAY			4	P U S H	0.25 P	23										
					5	P U S H	< 0.25 P	23										
			10		6	P U S H	< 0.25 P	22										
					7	P U S H	< 0.25 P	24										
			15			P U						30						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-29-2014** Complete Drilling **07-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **K&K** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.29 ft
 North: 1898467.55 ft
 East: 1171687.36 ft
 Station: 6334+12.89
 Offset: 30.5965 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick, ASPHALT --FILL--															
	573.8	Loose to medium dense, white CRUSHED STONE --BASE COURSE--			1	5 6 6	NP	6						9	2 2 3	0.25 B	26
			5		2	3 3 3	NP	8				25		10	1 2 2	0.25 B	23
	569.8	Stiff, brown and gray SILTY CLAY LOAM, trace gravel			3	2 3 4	1.17 N/6	19						11	1 2 3	0.25 B	25
	567.3	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			4	2 2 4	0.49 B	19						12	2 2 3	0.41 B	25
			10		5	1 1 3	0.41 B	23									
			15		6	1 2 2	0.49 B	26						13	2 3 2	0.83 N/6	
					7	3 4 4	0.41 B	25		538.5	Stiff to very stiff, gray SILTY CLAY, trace gravel						
			20		8	2 3 2	0.25 P	27						14	5 7 9	1.64 B	22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-27-2014** Complete Drilling **07-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.29 ft
 North: 1898467.55 ft
 East: 1171687.36 ft
 Station: 6334+12.89
 Offset: 30.5965 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	513.5									513.5	Hard, gray SILTY CLAY LOAM, trace gravel						
			45	X	15	7 13 16	2.54 B	22				65	X	19	23 30 45	7.38 B	15
										510.3	Boring terminated at 65.00 ft						
			50	X	16	28 25 32	3.00 P	24				70					
	523.5	Medium stiff, gray CLAY															
			55	X	17	4 5 5	0.87 B	26				75					
	518.5	Dense, gray SANDY LOAM, trace gravel															
		--Wet--															
			60	X	18	16 14 16	NP	16				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-27-2014** Complete Drilling **07-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.96 ft
 North: 1898537.05 ft
 East: 1171661.69 ft
 Station: 6334+85.38
 Offset: 28.1222 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.73	73-inch thick ASPHALT --PAVEMENT--															
	575.1	7-inch thick CONCRETE --PAVEMENT--															
		Very dense, grayish white CRUSHED STONE			1	40 37 21	NP	2						9	1 1 2	0.25 B	25
	573.0	--FILL-- Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			2	4 3 2	0.41 B	19				25		10	1 1 2	0.25 B	26
					3	1 2 3	0.49 B	20						11	2 3 4	0.41 B	25
					4	1 2 3	0.41 B	23						12	2 2 3	0.49 B	25
					5	1 2 2	0.41 B	25									
					6	1 2 2	0.41 B	26						13	1 2 3	0.41 B	27
					7	1 2 2	< 0.25 P	27		539.2	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
					8	1 1 2	0.33 B	26						14	2 4 6	1.31 B	22

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-13-2014** Complete Drilling **08-13-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 23-RWB-02HA

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.91 ft
 North: 1898549.00 ft
 East: 1171697.15 ft
 Station: 6334+84.05
 Offset: 9.2779 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	585.6	4-inch thick, black SILTY LOAM --TOPSOIL-- Very stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			1	P U S H	2.00 P	13		569.9	Boring terminated at 16.00 ft			8	S H	0.25 P	19	
					2	P U S H	4.00 P	19										
	582.1	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			3	P U S H	2.00 P	20										
					4	P U S H	1.75 P	19										
					5	P U S H	1.00 P	18										
	575.9	Soft, gray CLAY to SILTY CLAY, trace gravel			6	P U S H	0.25 P	20										
					7	P U S H	0.25 P	20										
						P U												

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-29-2014** Complete Drilling **07-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **K&K** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.57 ft
 North: 1898615.24 ft
 East: 1171637.84 ft
 Station: 6335+65.51
 Offset: 25.2492 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.34	4-inch thick ASPHALT --PAVEMENT--															
	575.6	8-inch thick CONCRETE --PAVEMENT--															
		Medium dense, gray and white CRUSHED STONE			1	9 9 12	NP	7						9	1 1 2	0.08 B	27
	573.6	--FILL-- Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	3 2 3	0.83 N/6					25		10	1 2 2	0.16 B	26
			5		3	1 1 2	0.41 B	22						11	1 2 2	0.16 B	23
			10		4	1 2 3	0.33 B	23						12	1 2 4	0.33 B	25
					5	1 2 3	0.49 B	23									
			15		6	1 2 3	0.49 B	24						13	1 2 3	0.33 B	26
					7	1 2 2	0.49 B	22		539.8	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			20		8	1 2 2	0.25 B	25						14	3 4 8	1.56 B	23

--L_L(%)=36, P_L(%)=17--
 --%Gravel=4.9--
 --%Sand=12.1--
 --%Silt=44.7--
 --%Clay=38.4--
 --A-6 (15)--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-18-2014** Complete Drilling **08-18-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.57 ft
 North: 1898615.24 ft
 East: 1171637.84 ft
 Station: 6335+65.51
 Offset: 25.2492 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											gravel						
											--DRY--						
		--L _L (%)=25, P _L (%)=16-- --%Gravel=6.6-- --%Sand=25.6-- --%Silt=48.8-- --%Clay=19.0-- --A-4 (4)--	45	X	15	5 8 13	3.94 B	13		511.6		65	X	19	9 17 28	NP	
											Boring terminated at 65.00 ft						
			50	X	16	7 38 19	2.30 B	19				70					
			55	X	17	6 8 10	1.23 B	23				75					
	517.6	Medium dense to dense, gray SILTY LOAM, trace to some	60	X	18	4 5 6	NP	22				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-18-2014** Complete Drilling **08-18-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.87 ft
 North: 1898626.40 ft
 East: 1171678.67 ft
 Station: 6335+64.02
 Offset: 17.053 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	586.4	6-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			1	P U S H	3.00 P	15		570.9	Boring terminated at 16.00 ft			8	S H	0.25 P	16	
					2	P U S H	3.50 P	17										
			5		3	P U S H	2.75 P	18				20						
	580.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	P U S H	0.75 P	20										
					5	P U S H	0.50 P	19				25						
			10		6	P U S H	0.25 P	23										
					7	P U S H	0.25 P	22										
			15			P U						30						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-28-2014** Complete Drilling **07-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **K&K** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-04

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.93 ft
 North: 1898688.27 ft
 East: 1171612.80 ft
 Station: 6336+40.47
 Offset: 16.6754 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.9	3-inch thick, ASPHALT over 9-inch thick, CONCRETE --PAVEMENT-- Medium dense, gray and white CRUSHED STONE --FILL--			1	13 9 9	NP	3									
	573.2	Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel	5		2	5 4 5	2.00 P	14				25		10	2 1 3	0.25 B	26
					3	3 4 4	0.74 B	16						11	1 4 3	0.25 B	26
	568.9	Very soft to medium stiff, gray CLAY, trace gravel	10		4	2 3 4	0.41 B	19				30		12	1 3 4	0.49 B	25
					5	1 2 3	0.57 B	23		545.2	Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel						
			15		6	2 2 4	0.74 B	23				35		13	2 4 5	0.90 B	20
					7	0 2 2	0.41 B	25									
			20		8	1 1 2	0.25 B	25				40		14	5 7 11	1.00 P	22

GENERAL NOTES

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.93 ft
 North: 1898688.27 ft
 East: 1171612.80 ft
 Station: 6336+40.47
 Offset: 16.6754 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	515.2									515.2	Medium dense, gray SILTY LOAM						
			45	X	15	5 7 11	1.56 B	19				65	X	19	7 9 7	NP	13
										511.9	Boring terminated at 65.00 ft						
			50	X	16	9 11 15	2.13 B	20				70					
	525.2	Hard, gray SILTY CLAY, trace gravel															
			55	X	17	15 15 20	4.02 B	24				75					
	520.2	Medium stiff, gray CLAY, trace gravel															
			60	X	18	3 4 5	0.66 B	40				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 23-RWB-04HA

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 584.07 ft
 North: 1898698.95 ft
 East: 1171657.83 ft
 Station: 6336+41.09
 Offset: 29.5961 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	583.6	6-inch thick, black SILTY CLAY LOAM															
		--TOPSOIL--			1	PUSH	4.50	17									
		Hard, gray SILTY CLAY LOAM, trace gravel															
	582.1	--FILL--															
		Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			2	PUSH	2.50	20									
			5		3	PUSH	2.25	20									
					4	PUSH	2.00	18									
					5	PUSH	0.75	17									
	574.3	Soft to medium stiff, gray SILTY CLAY	10		6	PUSH	0.50	20									
					7	PUSH	0.25	18									
	570.6	- REFUSAL -															
		Boring terminated at 13.50 ft															

GENERAL NOTES

Begin Drilling **07-28-2014** Complete Drilling **07-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **K&K** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 23-RWB-05

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 592.28 ft
 North: 1898793.23 ft
 East: 1171675.68 ft
 Station: 6337+31.20
 Offset: 54.1130 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.8	6-inch thick, dark brown SANDY LOAM --TOPSOIL-- Loose, brown GRAVELLY SANDY LOAM --FILL--			1	6 3 3	NP	13						9	2 2 4	0.57 B	22
	589.3	Loose to medium dense, brown and gray, fine SAND, trace gravel --FILL--			2	4 4 6	NP	10				25		10	2 2 3	0.41 B	24
					3	10 5 3	NP	19						11	2 2 3	0.41 B	24
	584.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	5 2 2	0.80 B	19						12	1 2 2	0.32 B	24
					5	2 2 2	0.33 B	26									
					6	1 1 2	0.16 B	27						13	0 2 3	0.33 B	25
					7	0 2 1	0.33 B	25									
					8	1 2 3	0.41 B	20						14	3 3 3	0.41 B	24

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-18-2014** Complete Drilling **08-18-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **H. Bista** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 592.28 ft
 North: 1898793.23 ft
 East: 1171675.68 ft
 Station: 6337+31.20
 Offset: 54.1130 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	545.5	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, little to some gravel	45	X	15	3 3 5	0.74 B	25									
			50	X	16	4 10 11	0.82 B	25									
			55	X	17	4 6 7	0.90 B	22									
	532.3		60	X	18	10 16 14	1.39 B	19									
Boring terminated at 60.00 ft																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-18-2014** Complete Drilling **08-18-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **H. Bista** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 23-RWB-05HA

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.84 ft
 North: 1898780.96 ft
 East: 1171640.86 ft
 Station: 6337+25.29
 Offset: 17.6471 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	582.8	Black SILTY LOAM --TOPSOIL--			1	P U S H	NP	16		567.8	Boring terminated at 16.00 ft			8	S H	0.25 P	22	
	580.3	Very stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			2	P U S H	2.00 P	16										
	575.8	Very stiff, gray SILTY CLAY LOAM, trace gravel	5		3	P U S H	2.50 P	18				20						
					4	P U S H	2.00 P	18										
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	10		5	P U S H	0.50 P	19				25						
					6	P U S H	0.75 P	19										
					7	P U S H	0.25 P	21										
			15			P U						30						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-28-2014** Complete Drilling **07-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **K&K** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **.1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 24-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.41 ft
 North: 1898928.01 ft
 East: 1171591.28 ft
 Station: 6338+77.83
 Offset: 12.7329 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.0	5-inch thick ASPHALT --PAVEMENT--															
	574.2	9-inch thick CONCRETE --PAVEMENT--															
	572.9	CRUSHED STONE --BASE COURSE--			1	1 1 3	NR							10	1 1 3	0.25 B	25
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	2 2 2	0.67 N/6	18				25		11	1 2 2	0.33 B	25
					3	1 2 2 4	0.25 B	22						12	2 2 3	0.98 B	24
					4	1 2 2 3	0.49 B	23						13	2 2 4	0.82 B	26
					5	1 1 3 3	0.33 B	23				30		14	2 3 4	0.66 B	20
					6	1 2 2	0.49 B	23									
					7	1 1 2	0.41 B	26									
					8	1 1 2	0.25 B	26		538.7	Stiff, gray SILTY CLAY LOAM, trace gravel						
					9	1 1 2	0.16 B	26						15	4 5 9	1.72 B	19

GENERAL NOTES

Begin Drilling **08-29-2014** Complete Drilling **08-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 11', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 24-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.41 ft
 North: 1898928.01 ft
 East: 1171591.28 ft
 Station: 6338+77.83
 Offset: 12.7329 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	533.7	Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	45	X	1	5 7 11	2.05 B	12		513.7	Medium dense, gray SILTY LOAM, trace gravel --Occasional fine to medium SAND lenses--	65	X	20	7 8 14	NP	14
	510.4								Boring terminated at 65.00 ft								
	528.7	Very stiff, gray SILTY CLAY, trace gravel	50	X	17	8 13 20	3.53 B	18				70					
	523.7	Stiff, gray CLAY to SILTY CLAY, trace gravel	55	X	18	5 7 8	1.89 B	26				75					
			60	X	19	3 3 4	1.17 N/6	27				80					

GENERAL NOTES

Begin Drilling **08-29-2014** Complete Drilling **08-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 24-RWB-01-HA

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.00 ft
 North: 1898926.95 ft
 East: 1171600.35 ft
 Station: 6338+76.12
 Offset: 3.7646 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.3	8-inch thick black LOAM, trace gravel															
		--TOPSOIL-- Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel			1	P U S H	NP	15									
		--FILL--			2	P U S H	3.00 P	16									
			5		3	P U S H	2.50 P	18									
	574.0	Stiff, gray SILTY CLAY to CLAY, trace gravel			4	P U S H	1.50 P	20									
					5	P U S H	1.00 P	19									
	571.0	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-20-2014** Complete Drilling **08-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **.1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 24-RWB-02-HA

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.00 ft
 North: 1899009.13 ft
 East: 1171602.85 ft
 Station: 6339+59.76
 Offset: 12 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.7	Black, SILTY LOAM, and roots --TOPSOIL--															
		Black, SILTY LOAM, trace gravel and brick			1		NP	24									
		--FILL--															
	579.3	Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			2		3.50 P	17									
			5		3		3.00 P	17									
		--SAND lenses--															
					4		1.75 P	20									
	573.2	Medium stiff, gray CLAY to SILTY CLAY, trace gravel			5		0.75 P	21									
	571.0	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-19-2014** Complete Drilling **08-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **R&J** Logger **A. Tomaras** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 24-RWB-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.86 ft
 North: 1899066.62 ft
 East: 1171604.08 ft
 Station: 6340+15.70
 Offset: 3.1076 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.9	6-inch thick, ASPHALT over 6-inch thick, CONCRETE --PAVEMENT-- Loose, brown GRAVELLY SAND --FILL--			1	6 5 3	NP	5			--%Silt=51.7-- --%Clay=30.7-- --A-6 (11)--			9	1 2 3	0.25 B	24
	572.9	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	1 2 3	0.83 N/6					25		10	1 2 3	0.16 B	24
					3	1 2 2	0.33 B	22						11	1 2 2	0.16 B	25
			10		4	1 1 2	0.49 B	21				30		12	1 2 3	0.25 B	26
					5	2 2 3	0.33 B	26									
			15		6	1 1 2	0.16 B	26				35		13	2 3 3	0.33 B	24
					7	1 1 2	0.25 B	25									
		--L _L (%)=32, P _L (%)=17-- --%Gravel=3.8-- --%Sand=13.7--	20		8	1 1 2	0.16 B	27		536.9	Very stiff, gray SILTY CLAY LOAM, trace gravel	40		14	3 10 16	2.62 B	17

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-14-2014** Complete Drilling **08-14-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 24-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.86 ft
 North: 1899066.62 ft
 East: 1171604.08 ft
 Station: 6340+15.70
 Offset: 3.1076 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.1	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel															
			45	X	15	9 10 11	3.03 B	12		510.9		65	X	19	23 33 44	NP	20
										Boring terminated at 65.00 ft							
	529.1	Brown fine SAND															
	526.9	Very stiff, gray SILTY CLAY LOAM, trace gravel															
			50	X	16	12 12 18	3.36 B	18				70					
	524.1	Very stiff, gray CLAY to SILTY CLAY, trace gravel --L _l (%)=42, P _l (%)=18-- --%Gravel=2.6-- --%Sand=5.7-- --%Silt=42.3-- --%Clay=49.3-- --A-7-6 (23)--															
			55	X	17	5 5 5	2.21 B	27				75					
	516.9	Medium dense to very dense, gray SILTY LOAM, trace gravel															
			60	X	18	4 11 17	NP	19				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-14-2014** Complete Drilling **08-14-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 24-RWB-03-HA

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.77 ft
 North: 1899066.47 ft
 East: 1171624.13 ft
 Station: 6340+16.13
 Offset: 23.1586 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.4	Black, SILTY LOAM, trace roots --TOPSOIL--			1	P U S H	0.75 P	17									
	580.3	Medium stiff, gray and black SILTY CLAY LOAM, trace gravel, roots, brick, and glass --FILL--			2	P U S H	2.25 P	20									
		Stiff to very stiff, gray SILTY CLAY LOAM to SILTY CLAY, trace gravel	5		3	P U S H	2.25 P	19									
					4	P U S H	1.50 P	19									
					5	P U S H	1.25 P	22									
	571.8	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-19-2014** Complete Drilling **08-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **R & J** Logger **A. Tomaras** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 24-RWB-04

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.17 ft
 North: 1899150.98 ft
 East: 1171608.16 ft
 Station: 6341+00.27
 Offset: 2.6124 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
		Stiff, black SILTY CLAY LOAM, trace gravel, trace roots --TOPSOIL--	0-1	1	1	5 8 9	1.39 B	9											
	573.7	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	1-5	2	2	4 3 4	1.48 B	18				25	10	0 1 2	0.33 B	27			
	570.7	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5-10	3	3	2 1 2	0.25 B	23				30	12	1 2 2	0.41 B	24			
			10-15	4	4	2 2 2	0.25 B	23				35	13	1 2 3	0.74 B	20			
			15-20	5	5	1 1 2	0.41 B	26				40	14	3 4 6	0.82 B	24			
			20-25	6	6	1 1 2	< 0.25 P	26											
			25-30	7	7	1 1 2	0.16 B	24											
			30-40	8	8	1 1 2	0.33 B	26											

GENERAL NOTES

Begin Drilling **08-12-2014** Complete Drilling **08-12-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.17 ft
 North: 1899150.98 ft
 East: 1171608.16 ft
 Station: 6341+00.27
 Offset: 2.6124 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	534.4	Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel	45	X	15	4 6 9	3.77 B	13		514.4	Medium dense, brown, medium SAND with silt	65	X	19	6 9 14	NP	14
	511.2								Boring terminated at 65.00 ft								
	529.4	Very stiff, gray SILTY CLAY, trace gravel	50	X	16	4 6 12	2.87 B	19				70					
	524.4	Very stiff, gray CLAY to SILTY CLAY, trace gravel	55	X	17	4 6 8	2.95 B	25				75					
	516.9	Gray SILT	60	X	18	3 4 4	NP	26				80					

GENERAL NOTES

Begin Drilling **08-12-2014** Complete Drilling **08-12-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 24-ST-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.77 ft
 North: 1899116.08 ft
 East: 1171620.82 ft
 Station: 6340+66.26
 Offset: 17.4976' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.8	Very stiff, black SILTY CLAY LOAM, trace gravel, roots --TOPSOIL--			1	3 3 4 5	1.00 P	23						5	S H	0.25 P	23
		Very stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			2	3 5 6 9	2.71 B	14			--S _u =0.49 tsf (UU TXC) --w _n (%)=24			6	P U S H	0.25 P	24
			5		3	3 4 5 5	2.54 B	18				25		7	P U S H	0.50 P	25
	572.5	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel			4	3 4 4 4	0.90 B	19						8	P U S H	0.25 P	25
			10		1	P U S H	0.25 P	23			--S _u =0.37 tsf (UU TXC) --w _n (%)=23			9	P U S H	0.50 P	23
					2	P U S H	0.50 P	22						10	P U S H	0.50 P	25
			15		3	P U S H	0.25 P	24						11	P U S H	1.00 P	19
					4	P U S H	0.25 P	24			--S _u =0.50 tsf (UU TXC) --w _n (%)=23				P U		
			20			P U				539.8	Very stiff, gray SILTY CLAY, trace gravel	40			P U		

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling **Groundwater**
 At Completion of Drilling **not observed**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 24-ST-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.77 ft
 North: 1899116.08 ft
 East: 1171620.82 ft
 Station: 6340+66.26
 Offset: 17.4976' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	533.8	--Laboratory $Q_u=1.57$ tsf (B), $w_n(\%)=21$ --	12	5	12	5	2.25	21									
			5	5	5	3	2.05	20									
			6	6	6	4	3.94	20									
			10	10	10	6	B										
		Boring terminated at 45.00 ft	45														
			50														
			55														
			60														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **3.25" HSA, boring backfilled upon completion**

While Drilling ∇ **Groundwater**
 At Completion of Drilling ∇ **not observed**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 25-RWB-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.97 ft
 North: 1899010.62 ft
 East: 1171588.78 ft
 Station: 6339+59.75
 Offset: 11.7335 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.5	5-inch thick, ASPHALT --PAVEMENT--															
	574.6	10-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, gray CRUSHED STONE --BASE COURSE--			1	6 8 6	NP	6						9	0 0 1	0.25 B	25
	572.7	Medium stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			2	1 2 2	0.57 B	18				25		10	0 1 2	0.25 B	25
	570.5	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	0 1 2	0.57 B	23						11	0 2 2	0.49 B	25
					4	0 2 2	0.57 B	24						12	0 2 2	0.57 B	25
					5	0 2 2	0.74 B	24									
					6	0 2 1	0.49 B	24						13	0 0 1	0.41 B	19
					7	0 2 2	0.49 B	24		539.2	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel						
					8	0 2 2	0.25 B	25						14	8 10 23	4.76 B	16

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-09-2014** Complete Drilling **07-09-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **61.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.97 ft
 North: 1899010.62 ft
 East: 1171588.78 ft
 Station: 6339+59.75
 Offset: 11.7335 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	529.2	Medium stiff to stiff, gray CLAY to SILTY CLAY, trace gravel	45	X	15	4 7 10	3.12 B	15		514.2	Dense, brown fine SAND	65	X	19	14 21 23	NP	26
			50	X	16	5 9 14	3.83 N/6	24				70	X	20	13 18 28	NP	19
			55	O	17	3 4 5	1.50 N/6			504.2	Very dense, gray GRAVELLY SAND --DRY--	75	X	21	33 38 29/4	NP	9
	519.2	Stiff, gray SILTY CLAY LOAM, trace gravel	60	X	18	8 11 12	1.72 B	19				80	X	22	50/4	NP	16

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-09-2014** Complete Drilling **07-09-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **61.75 ft**
 At Completion of Drilling ∇ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 25-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.97 ft
 North: 1899010.62 ft
 East: 1171588.78 ft
 Station: 6339+59.75
 Offset: 11.7335 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	494.2	Very dense, gray SILT to SILTY LOAM, trace gravel --DRY--															
			85		23	33 43 24/3	NP	17									
					24		NR										
	486.5	--ROLLER BIT REFUSAL-- Boring terminated at 89.50 ft	90			50/2											
			95														
			100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-09-2014** Complete Drilling **07-09-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **61.75 ft**
 At Completion of Drilling ▽ **Rotary wash**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 25-RWB-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.01 ft
 North: 1899152.68 ft
 East: 1171595.25 ft
 Station: 6341+01.13
 Offset: 10.3801 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.74	1-inch thick, ASPHALT --PAVEMENT--															
	574.8	10-inch, CONCRETE --PAVEMENT--															
		Medium dense, CRUSHED STONE			1	8 11 9	NP	7						9	0 0 0	0.33 B	25
	573.0	--BASE COURSE--															
		Very stiff, brown SILTY CLAY, trace gravel --FILL--			2	2 2 3	2.46 B	20				25		10	0 0 1	0.41 B	26
	570.5																
		Stiff, brown SILTY CLAY LOAM, trace gravel			3	3 4 4	1.64 B	9						11	0 0 0	0.41 B	26
	568.0																
		Soft, gray CLAY to SILTY CLAY, trace gravel			4	0 0 1	0.41 B	23						12	0 0 1	0.41 B	25
					5	0 0 1	0.41 B	25		544.3	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
					6	0 0 1	0.41 B	25						13	2 4 3	1.31 B	16
					7	0 0 0	0.33 B	25									
					8	0 0 0	0.49 B	23						14	1 3 5	1.56 B	24

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-09-2014** Complete Drilling **07-09-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.01 ft
 North: 1899152.68 ft
 East: 1171595.25 ft
 Station: 6341+01.13
 Offset: 10.3801 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	524.3	Stiff, gray CLAY to SILTY CLAY, trace gravel								514.3	Dense, gray SAND						
			45	X	15	2 4 4	1.39 B	16		511.0		65	X	19	10 18 23	NP	15
			50	X	16	3 5 7	3.36 B	21									
			55	X	17	4 6 6	1.48 B	30									
			60	X	18	4 4 4	1.56 B	25									
											Boring terminated at 60.00 ft						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-09-2014** Complete Drilling **07-09-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 26-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.37 ft
 North: 1899073.58 ft
 East: 1171541.57 ft
 Station: 6147+73.48
 Offset: 28.20527 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.14	1-inch thick ASPHALT --PAVEMENT--															
	574.2	10-inch thick CONCRETE --PAVEMENT--															
		Medium dense to dense, gray and white CRUSHED STONE, brick fragments --FILL--			1	18 16 14	NP	3						9	1 2 3	0.25 B	36
					2	9 6 7	NP	5						10	2 1 3	0.33 B	26
	569.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3	0.98 B	22						11	2 2 3	0.33 B	26
					4	2 2 5	0.49 B	21						12	1 2 3	0.41 B	25
	564.9	Stiff, gray SILTY CLAY LOAM, trace gravel --few SAND seams--			5	3 3 6	1.72 B	14									
	562.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			6	2 2 4	0.66 B	25						13	2 3 5	0.49 B	25
					7	2 2 3	0.33 B	26									
					8	1 1 2	0.41 B	26		538.6	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			14	5 8 9	2.82 B	22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **59.50 ft**
 At Completion of Drilling **mud at 16 ft; rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 26-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.37 ft
 North: 1899073.58 ft
 East: 1171541.57 ft
 Station: 6147+73.48
 Offset: 28.20527 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45	X	15	12 11 12	3.12 B	15		510.4	medium to coarse SAND, trace gravel	65	X	19	13 23 27	NP	16
											Boring terminated at 65.00 ft						
			50	X	16	12 15 21	5.17 B	20									
	523.6	Medium stiff, gray CLAY to SILTY CLAY, trace gravel															
			55	X	17	3 3 5	0.98 B	39									
	518.6	Gray SILTY LOAM															
			60	X	18	5 6 11	NP	10									
	515.9	Very dense, brown and gray,															

GENERAL NOTES

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **59.50 ft**
 At Completion of Drilling **mud at 16 ft; rotary wash**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 27-RWB-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.17 ft
 North: 1899481.12 ft
 East: 1171604.19 ft
 Station: 6344+30.89
 Offset: 14.5751 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.8	5-inch thick ASPHALT --PAVEMENT--															
	578.2	7-inch thick CONCRETE --PAVEMENT--															
		Hard, brown SILTY CLAY LOAM, trace gravel			1	4 2 5	4.10 B	15						9	0 2 1	0.33 B	27
	576.2	--FILL-- Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	1 1 1	0.16 B	27				25		10	1 1 2	< 0.25 P	30
					3	0 1 1	0.16 B	25						11	0 1 1	0.57 B	26
					4	1 1 1	< 0.25 P	23				30		12	0 2 2	0.57 B	25
					5	0 1 1	0.41 B	25									
					6	0 0 2	0.49 B	25				35		13	2 3 3	< 0.25 P	29
					7	1 1 2	0.57 B	25									
					8	1 2 4	0.57 B	26				40		14	2 4 6	0.98 B	24

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-23-2014** Complete Drilling **06-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **72.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 27-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.17 ft
 North: 1899481.12 ft
 East: 1171604.19 ft
 Station: 6344+30.89
 Offset: 14.5751 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	537.4									517.4							
		Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	45	X	15	5 7 9	4.00 P	13			Medium dense to very dense, gray SILTY LOAM, trace to little gravel; damp to moist	65	X	19	8 14 14	NP	13
			50	X	16	3 6 9	2.87 B	18				70	X	20	24 29 50/4"	NP	19
			55	X	17	4 5 9	1.72 B	24			Dense, gray SAND, little gravel; wet to saturated	75	X	21	21 19	NP	16
	522.4									502.4							
		Stiff, gray CLAY to SILTY CLAY, trace gravel	60	X	18	2 3 3	1.07 B	28			Very dense, gray SILT to SILTY LOAM; wet	80	X	22	35 50/4"	NP	21

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-23-2014** Complete Drilling **06-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **72.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 27-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.17 ft
 North: 1899481.12 ft
 East: 1171604.19 ft
 Station: 6344+30.89
 Offset: 14.5751 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85	X	23	31 50/5"	NP	19									
			90	X	24	18 33 45	NP	26									
			95	O	25		NA										
	483.2	--ROLLER BIT REFUSAL-- Boring terminated at 96.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-23-2014** Complete Drilling **06-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **72.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 27-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.64 ft
 North: 1899634.17 ft
 East: 1171605.63 ft
 Station: 6345+83.70
 Offset: 22.60 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium dense, gray GRAVELLY SAND; dry															
		--FILL--															
	576.6				1	14 11 6	NP	5						9	1 1 2	0.33 B	26
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	2 2 2	0.41 B	23				25		10	3 3 4	0.41 B	25
					3	1 1 1	0.41 B	26						11	1 2 2	0.41 B	26
					4	1 1 2	0.41 B	25				30		12	1 2 3	0.41 B	26
					5	1 1 2	0.25 B	25									
					6	1 1 2	0.41 B	25				35		13	2 2 2	0.16 B	26
					7	1 1 1	0.41 B	17									
					8	0 1 2	0.33 B	26				40		14	3 4 4	0.90 B	22

GENERAL NOTES

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 27-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.64 ft
 North: 1899634.17 ft
 East: 1171605.63 ft
 Station: 6345+83.70
 Offset: 22.60 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	537.9									517.9	--%Clay=46.5-- --A-7-6 (23)--							
		Stiff to very stiff, gray SILTY CLAY, trace gravel	45	X	15	3 4 6	2.87 B	17			Dense, gray SANDY LOAM, trace gravel; moist	65	X	19	8 21 21	NP	13	
			50	X	16	5 5 7	1.56 B	22			Boring terminated at 65.00 ft							
			55	X	17	6 8 11	3.53 B	21										
	522.9	Stiff, gray CLAY to SILTY CLAY, trace gravel --L _L (%)=41, P _L (%)=19-- --%Gravel=0.3-- --%Sand=1.6-- --%Silt=51.6--	60	X	18	3 4 4	1.23 B	41				80						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 27-RWB-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.62 ft
 North: 1899743.07 ft
 East: 1171615.97 ft
 Station: 6346+92.95
 Offset: 12.08 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.1	6-inch thick ASPHALT --PAVEMENT--															
	577.1	12-inch thick CONCRETE --PAVEMENT--															
	575.4	Dense, gray and white CRUSHED STONE --BASE COURSE--		X	1	22 20 10	NP						X	9	1 1 1	0.16 B	27
	573.1	Medium stiff, brown and gray SILTY CLAY LOAM, trace gravel		X	2	2 1 2	0.74 B	22					X	10	1 2 2	0.25 B	26
	570.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		X	3	1 1 2	0.33 B	25					X	11	1 2 1	0.16 B	26
	570.3	--Possible Wet SAND lens--															
			10	X	4	1 1 3	0.33 B	20				30	X	12	1 2 3	0.33 B	26
				X	5	2 2 2	0.66 B	15									
			15	X	6	1 1 2	0.41 B	24				35	X	13	1 2 3	0.49 B	20
				X	7	1 1 2	0.41 B	25									
			20	X	8	1 1 2	0.25 B	25				40	X	14	3 5 6	0.57 B	22

--L_L(%)=34, P_L(%)=16--
 --%Gravel=3.9--
 --%Sand=14.6--
 --%Silt=50.6--
 --%Clay=30.9--
 --A-6 (13)--25

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-25-2014** Complete Drilling **06-25-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 27-RWB-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.62 ft
 North: 1899743.07 ft
 East: 1171615.97 ft
 Station: 6346+92.95
 Offset: 12.08 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	531.9	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	45	X	15	4 5 6	0.33 B	20		516.9	Dense, brown and gray SANDY LOAM, trace gravel --Moist--	65	X	19	16 24 25	NP	9
			50	X	16	5 8 12	3.44 B	21		513.6	Boring terminated at 65.00 ft						
			55	X	17	4 6 7	2.38 B	25									
	521.9	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	60	X	18	3 4 4	0.98 B	41									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-25-2014** Complete Drilling **06-25-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 27-ST-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.22 ft
 North: 1899499.80 ft
 East: 1171633.19 ft
 Station: 8540+53.84
 Offset: 1.0375 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	582.94	inch thick, black SILTY CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY LOAM, trace to some gravel, bricks fragments --FILL--			1	5 5 3	2.50 P	20						5	P U S H	NA	
					2	3 4 5	1.97 P	15				25		6	P U S H	NA	
	577.7	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 2 2	0.90 B	19						7	P U S H		25
		--S _u =0.22 tsf (UU TXC 10psi)-- --S _u =0.37 tsf (UU TXC 20psi)-- --S _u =0.15 tsf (UU TXC 40psi)--			1			25						8	P U S H	NA	
		--C _c =0.215, OCR=1.9--			2			25						9	P U S H		24
		--S _u =0.29 tsf (UU TXC 10psi)-- --S _u =0.23 tsf (UU TXC 20psi)-- --S _u =0.30 tsf (UU TXC 40psi)--			3			22						10	P U S H	NA	
					4			NA						11	P U S H		24

GENERAL NOTES

Begin Drilling **10-27-2014** Complete Drilling **10-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Groundwater**
 At Completion of Drilling **not observed**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 27-ST-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.22 ft
 North: 1899499.80 ft
 East: 1171633.19 ft
 Station: 8540+53.84
 Offset: 1.0375 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	542.7	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel -- Laboratory $Q_u=0.93$ tsf--	12	UCSH	12	0.93 B	17											
	45		13	UCSH	1.38 B	18												
	50	14	579	2.71 B	15													
	533.2	Boring terminated at 50.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-27-2014** Complete Drilling **10-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling **Groundwater**
 At Completion of Drilling **not observed**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 28-RWB-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.79 ft
 North: 1899549.81 ft
 East: 1171596.02 ft
 Station: 8342+13.53
 Offset: 5.5087 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.45	4.5-inch thick ASPHALT --PAVEMENT--															
	578.69	9-inch thick CONCRETE --PAVEMENT--															
		Dense, grayish white CRUSHED STONE; dry --BASE COURSE--			1	17 23 11	NP	4						9	0 0 0	0.41 B	25
	576.5	Stiff, gray SILTY CLAY LOAM															
	575.8	--FILL-- Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	4 3 3	0.49 B	20						10	0 0 0	0.41 B	26
					3	1 2 2	0.25 B	22						11	0 0 0	0.33 B	28
					4	0 1 1	0.33 B	22						12	0 0 0	0.25 B	26
					5	0 1 2	0.33 B	21									
					6	0 0 1	0.33 B	25						13	0 1 3	0.82 B	24
					7	0 0 0	0.33 B	24		543.0	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
					8	0 0 1	0.41 B	24						14	2 4 6	1.64 B	20

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-25-2014** Complete Drilling **07-25-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 28-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.79 ft
 North: 1899549.81 ft
 East: 1171596.02 ft
 Station: 8342+13.53
 Offset: 5.5087 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	518.0									518.0	Medium dense, gray SILTY LOAM, trace gravel; moist						
		--L _L (%)=30, P _L (%)=16-- --%Gravel=3.5-- --%Sand=15.0-- --%Silt=51.2-- --%Clay=30.4-- --A-6 (10)--	45	X	15	3 5 7	2.71 B	18				65	X	19	5 7 10	NP	22
										514.8	Boring terminated at 65.00 ft						
			50	X	16	4 7 10	2.79 B	19				70					
			55	X	17	5 7 15	3.77 B	22				75					
	523.0	Very stiff, gray CLAY to SILTY CLAY, trace gravel															
			60	X	18	3 5 7	2.21 B	25				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-25-2014** Complete Drilling **07-25-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 28-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.73 ft
 North: 1899716.72 ft
 East: 1171586.62 ft
 Station: 6154+17.38
 Offset: 60.7088 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.44	17-inch thick, ASPHALT --PAVEMENT--															
		17-inch thick, CONCRETE with rebar --PAVEMENT--															
	578.0	Medium to very dense, white CRUSHED STONE; dry --BASE COURSE--			1	19 33 28	NP	4						9	0 0 2	0.16 B	26
	575.4	Hard, brown and gray SILTY CLAY LOAM, trace gravel	5		2	10 5 5	NP	5				25		10	0 0 2	0.33 B	26
	574.2	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2	0.41 B	21						11	0 0 2	0.33 B	25
					4	0 0 2	0.16 B	29						12	0 0 2	0.33 B	25
					5	0 0 0	0.25 B	32									
					6	0 0 2	0.33 B	26						13	0 2 3	0.57 B	26
					7	0 0 1	0.33 B	23		543.0	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
					8	0 0 1	0.41 B	23						14	2 3 4	1.07 B	22

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-24-2014** Complete Drilling **07-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 28-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.73 ft
 North: 1899716.72 ft
 East: 1171586.62 ft
 Station: 6154+17.38
 Offset: 60.7088 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	3 5 7	1.80 B	21		518.0	Dense, gray SANDY LOAM, trace gravel; moist	65		19	8 20 19	NP	15
			50		16	4 5 8	2.13 B	22		514.7	Boring terminated at 65.00 ft						
			55		17	6 9 15	4.26 B	22									
			60		18	6 8 12	2.95 B	17									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-24-2014** Complete Drilling **07-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **62.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 29-RWB-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 591.82 ft
 North: 1899679.29 ft
 East: 1171674.90 ft
 Station: 6346+29.02
 Offset: 46.47 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	589.8	Black SANDY LOAM, trace slag --FILL--			1	8 16 17	NP	12						9	0 0 0	0.25 B	24	
		Dense to very dense, brown SANDY GRAVEL --FILL--			2	4 13 24	NP	8				25		10	0 0 0	0.66 B	25	
					3	5 13 24	NP	10						11	0 0 0	0.41 B	26	
	583.1	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	1 2 3	0.66 B	16				30		12	0 1 2	0.25 P	26	
					5	0 0 0	0.25 B	27										
					6	0 0 0	0.25 B	27						13	0 0 0	0.33 B	27	
					7	0 0 0	0.25 B	27										
					8	0 0 0	0.25 B	27				40		14	0 0 0	0.41 B	27	

--L_L(%)=34, P_L(%)=17--
 --%Gravel=10.0--
 --%Sand=13.8--
 --%Silt=47.8--
 --%Clay=28.5--35
 --A-6 (11)--

GENERAL NOTES

Begin Drilling **06-17-2014** Complete Drilling **06-17-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 29-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 591.82 ft
 North: 1899679.29 ft
 East: 1171674.90 ft
 Station: 6346+29.02
 Offset: 46.47 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
										530.1	--%Clay=17.6-- --A-4 (5)-- Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			45	X	15	0 2 2	0.57 B	23		526.8	Boring terminated at 65.00 ft	65	X	19	4 7 13	2.30 B	18
			50	X	16	2 3 3	0.66 B	27									
	540.1	Stiff, gray SILTY CLAY LOAM, trace gravel															
			55	X	17	3 4 6	1.48 B	21									
	535.1	Stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel --L _L (%)=24, P _L (%)=14-- --%Gravel=5.8-- --%Sand=19.4-- --%Silt=57.2--															
			60	X	18	4 9 8	1.75 P	16				80					

GENERAL NOTES

Begin Drilling **06-17-2014** Complete Drilling **06-17-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 29-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.63 ft
 North: 1899746.45 ft
 East: 1171670.23 ft
 Station: 6346+95.65
 Offset: 42.22 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.25	5-inch thick, black LOAM --TOPSOIL-- Medium dense, gray and black SANDY LOAM, trace slag --FILL--	0 - 5	X	1	5 8 8	NP	14				0 - 5	X				
	590.6	Loose to very dense, brown SANDY GRAVEL --FILL--	5 - 10	X	2	9 13 31	NP	10				5 - 10	X				
		--HARD DRILLING--	10 - 15	X	3	7 8 50/4"	NP	11				10 - 15	X				
			15 - 20	X	4	25 5 4	NP	6			--UC test-- --Shear strength (Cu) = 320 psf--	20 - 30	X	2	P U S H	0.25	25
	583.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	20 - 30	X	5	0 0 0	0.41 B	26				30 - 40	X	3	P U S	0.25	26

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GENERAL NOTES

Begin Drilling **06-16-2014** Complete Drilling **06-16-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 11', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 29-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.63 ft
 North: 1899746.45 ft
 East: 1171670.23 ft
 Station: 6346+95.65
 Offset: 42.22 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
Hatched profile	541.6	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	45			H	P		Hatched profile	528.6	Boring terminated at 65.00 ft	65	X	8	4 6 10	2.13 B	20
	50			4	P C S H	0.75 P	25	70									
	55		X	6	3 5 6	1.39 B	20	75									
	60		X	7	6 8 11	2.54 B	15	80									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-16-2014** Complete Drilling **06-16-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 11', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ▼ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 30-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.54 ft
 North: 1899863.46 ft
 East: 1171695.35 ft
 Station: 8545+20.14
 Offset: 45.6914 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.24	inch thick, ASPHALT --PAVEMENT--															
	592.5	8-inch thick, CONCRETE --PAVEMENT--															
	592.0	6-inch thick, loose black SANDY LOAM, little gravel --FILL--			1	4 3 5	NP	12						9	0 0 0	0.16 B	26
		Loose, brownish red SANDY GRAVEL, trace brick fragments --FILL--			2	3 3 2	NP	14				25		10	0 0 0	0.16 B	25
	588.0	Loose, black SANDY LOAM, little gravel --FILL--			3	4 3 3	NP	17						11	0 0 0	0.16 B	25
	585.5	Loose to medium dense, brown GRAVELLY SAND, trace brick fragments --FILL--			4	3 4 3	NP	15				30		12	0 0 2	0.33 B	24
					5	15 9 7	NP	22									
	580.5	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			6	0 1 0	0.33 B	25				35		13	0 1 2	< 0.25 P	31
					7	0 0 0	0.16 B	25									
					8	0 0 0	0.16 B	27				40		14	0 0 2	0.08 B	27

GENERAL NOTES

Begin Drilling **07-24-2014** Complete Drilling **07-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ **5.50 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.54 ft
 North: 1899863.46 ft
 East: 1171695.35 ft
 Station: 8545+20.14
 Offset: 45.6914 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	0 0 0	0.25 B	26				65		19	5 9 12	3.50 N/6	25
			50		16	0 0 1	0.33 B	25				70		20	7 12 15	2.87 B	19
			55		17	2 5 6	0.25 B	23				75		21	4 5 7	1.39 B	25
	536.8	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace to some gravel															
			60		18	4 7 10	1.72 B	19				80		22	11 11 10	0.16 B	27

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-24-2014** Complete Drilling **07-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.54 ft
 North: 1899863.46 ft
 East: 1171695.35 ft
 Station: 8545+20.14
 Offset: 45.6914 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	511.8	Very dense, gray SILT, trace gravel															
			85	X	23	30 45 25/3	NP	19				105	X	27	50/6	NP	9
	506.8	Gray fine SAND; moist															
	504.5	Very dense, gray SILTY LOAM, trace gravel	90	X	24	20 28 36	NP	17				110	X	28	18 24 35	NP	10
			95	X	25	52/6	NP	12		482.0	Strong, light gray, poor rock mass quality, bedded slightly weathered DOLOSTONE, with shale partings, up to 18-inch beds, <2-inch spaced joints, horizontal joints with none or less than <0.2-inch infilling, hard joint wall, with stylonitic surfaces, and moderately vuggy porosity. Run 1 - RECOVERY = 100% RQD = 21% Boring terminated at 113.50 ft	115		1			
			100	X	26	36 50/5	NP	10				120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-24-2014** Complete Drilling **07-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 30-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.36 ft
 North: 1900001.45 ft
 East: 1171691.10 ft
 Station: 8546+56.85
 Offset: 31.0382 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.13	13-inch thick, ASPHALT															
		21-inch thick, CONCRETE and BRICK															
	591.4	Loose to very dense, brown and gray LOAM to SANDY LOAM, little gravel and brick fragments --FILL--			1	2 3 5	NP	16						9	1 2 2	0.25 B	22
					2	5 19 5	NP	19						10	0 2 4	0.33 B	24
					3	5 3	NP	16						11	3 2 3	0.41 B	26
	586.1	Medium dense, gray SANDY GRAVEL --FILL--			4	5 6 5	NP							12	2 2 2	0.49 B	25
	582.9	Stiff, gray and brown, SILTY CLAY, trace gravel			5	2 3 4	1.72 B	24									
	580.4	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			6	1 2 2	0.49 B	24						13	0 2 3	0.33 B	26
					7	0 0 2	0.41 B	21									
					8	0 0 1	0.41 B	26						14	2 3 2	0.41 B	25

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-24-2014** Complete Drilling **07-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.36 ft
 North: 1900001.45 ft
 East: 1171691.10 ft
 Station: 8546+56.85
 Offset: 31.0382 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	3 3 4	0.49 B	25		528.4		65		19	5 11 18	2.87 B	19
											Boring terminated at 65.00 ft						
			50		16	3 4 4	0.49 B	25				70					
	541.6	Very stiff, gray SILTY CLAY, trace gravel															
			55		17	7 10 13	2.79 B	21				75					
			60		18	6 10 13	2.95 B	17				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-24-2014** Complete Drilling **07-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 30-RWB-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 591.35 ft
 North: 1900153.32 ft
 East: 1171655.49 ft
 Station: 8548+48.97
 Offset: 16.2238 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.13	13-inch thick ASPHALT --PAVEMENT--															
	590.3	9-inch thick CONCRETE --PAVEMENT--															
		Loose to medium dense, black, brown, and white SANDY GRAVEL, trace brick fragments --FILL--			1	5 6 5	NP	6									
			5		2	4 4 3	NP	9				25		3	P U S H	0.25 P	18
					3	6 3 2	NP	12									
	583.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	1 1 3	0.98 B	22						4	P U S H	< 0.25 P	24
			10		5	1 1 1	0.41	24									
		--L _L (%)=32, P _L (%)=17-- --%Gravel=3.2-- --%Sand=19.5-- --%Silt=49.2-- --%Clay=28.1-- --A-6 (10)--			1	P U S H	< 0.25 P	25						5	P U S H	< 0.25 P	26
			15														
					2	P U S	< 0.25	23				40		6	P U S	< 0.25	27
			20														

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-25-2014	Complete Drilling	06-25-2014	While Drilling	Rotary wash		
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR [78%]	At Completion of Drilling	mud in the borehole		
Driller	R&J	Logger	S. Woods	Time After Drilling	NA		
Drilling Method	2.25" IDA HSA to 10' mud rotary thereafter, boring backfilled upon completion			Depth to Water	NA		
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 591.35 ft
 North: 1900153.32 ft
 East: 1171655.49 ft
 Station: 8548+48.97
 Offset: 16.2238 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
	544.3	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace to some gravel	45		7	P C S H	< 0.25 P	26		526.3	Boring terminated at 65.00 ft	65	⊗	8	5 10 16	4.18 B	20		
	50			8	P C S H	1.00 P	21			70									
	55		⊗	6	5 6 10		2.67 N/6	22				75							
	60		⊗	7	4 5 6		1.56 B	20				80							

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-25-2014** Complete Drilling **06-25-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA to 10' mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **▼ mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **▼ NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.25 ft
 North: 1899899.70 ft
 East: 1171625.80 ft
 Station: 8545+50.88
 Offset: 26.4632 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	579.8	6-inch thick, ASPHALT --PAVEMENT--																
		18-inch thick, CONCRETE --PAVEMENT--																
	578.3	Dense, gray and white CRUSHED STONE --BASE COURSE--			1	9 19 13	NP	3						9	1 1 1	0.16 B	22	
	576.9	Stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--	5		2	2 1 2	1.00 P	19				25		10	1 1 2	0.25 B	26	
	574.8	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 2	0.57 B	26							11	1 2 3	0.41 B	26
			10		4	1 2 3	0.25 B	32				30		12	1 3 2	0.49 B	25	
					5	0 0 1	0.25 B	26										
			15		6	0 2 1	0.25 B	26				35		13	2 2 3	0.49 B	26	
					7	1 1 2	0.16 B	26		543.5	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel							
			20		8	1 1 2	0.16 B	25				40		14	3 4 5	1.64 B	24	

GENERAL NOTES

Begin Drilling **06-25-2014** Complete Drilling **06-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.25 ft
 North: 1899899.70 ft
 East: 1171625.80 ft
 Station: 8545+50.88
 Offset: 26.4632 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	518.5									518.5	Very stiff, gray SILTY CLAY, trace gravel						
			45	X	15	4 6 9	2.71 B	18				65	X	19	8 10 12	2.46 B	22
										515.3	Boring terminated at 65.00 ft						
			50	X	16	4 4 7	1.72 B	17				70					
	528.5	Stiff to very stiff, gray CLAY, trace gravel --L _L (%)=39, P _L (%)=18-- --%Gravel=3.1-- --%Sand=5.7-- --%Silt=48.1-- --%Clay=43.0-- --A-6 (19)--															
			55	X	17	5 7 9	3.36 B	24				75					
			60	X	18	7 8 9	1.00 P	28				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-25-2014** Complete Drilling **06-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 31-RWB-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.94 ft
 North: 1900047.77 ft
 East: 1171641.00 ft
 Station: 8547+00.89
 Offset: 20.9256 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.4	6-inch thick ASPHALT --PAVEMENT--															
		18-inch thick CONCRETE --PAVEMENT--															
	584.9	Medium dense, gray and white CRUSHED STONE --BASE COURSE--			1	12 14 7	NP							9	1 1 1	0.25 B	27
	583.4	Stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	2 2 3	1.89 B	24				25		10	1 2 1	0.50 N/6	
	581.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 1	0.66 B	26						11	2 1 2	0.33 B	26
					4	0 2 1	0.08 B	27						12	1 2 3	0.33 B	25
					5	1 1 1	0.16 B	28									
					6	0 0 1	0.16 B	27						13	2 2 3	0.83 N/6	
					7	1 1 2	0.16 B	20									
					8	1 2 1	0.33 B	26						14	1 2 2	0.25 P	30

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.94 ft
 North: 1900047.77 ft
 East: 1171641.00 ft
 Station: 8547+00.89
 Offset: 20.9256 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	545.2																
		Medium stiff to very stiff, gray SILTY CLAY, trace gravel	45	X	15	3 3 3	1.07 B	22		521.9		65	X	19	4 5 7	1.64 B	26
			50	X	16	4 6 9	1.80 B	22			Boring terminated at 65.00 ft						
			55	X	17	4 6 10	0.90 B	16									
			60	X	18	10 8 10	3.28 B	16									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.12 ft
 North: 1900194.50 ft
 East: 1171641.58 ft
 Station: 8547+50.12
 Offset: 16.2384 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	592.93	3-inch thick ASPHALT --PAVEMENT--																
	592.1	9-inch thick CONCRETE --PAVEMENT--																
		Medium dense, brownish red and gray GRAVELLY SAND, trace gravel and brick fragments --FILL--			1	17 10 7	NP							9	0 1 3	0.49 B	22	
					2	3 4 8	NP	4				25		10	1 2 2	0.33 B	26	
					3	11 12 12	NP	13						11	0 1 2	0.41 B	26	
					4	3 5 6	NP	14						12	1 1 2	0.33 B	28	
	582.6	Soft to medium stiff, gray CLAY LOAM, trace gravel --FILL--			5	0 1 1	0.50 P	25										
					6	4 2 3	0.25 P	19				35		13	0 0 2	0.33 B	28	
	577.6	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	0 0 0	0.25 B	27										
					8	0 0 1	0.25 B	28						14	3 7 9	NP	20	
										556.4	Medium dense, brownish gray SANDY LOAM, trace gravel --Wet--							

--L_L(%)=30, P_L(%)=16--
 --%Gravel=4.5--
 --%Sand=13.5--
 --%Silt=53.2--
 --%Clay=28.8--30
 --A-6 (10)--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.12 ft
 North: 1900194.50 ft
 East: 1171641.58 ft
 Station: 8547+50.12
 Offset: 16.2384 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	551.4																
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	45		15	1 2 3	0.74 B	24				65		19	4 8 12	1.50 P	21
			50		16	3 2 4	< 0.25 P	30				70		20	5 8 10	2.21 B	26
	541.4																
		Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	55		17	2 5 7	1.72 B	23				75		21	1 4 5	1.39 B	28
			60		18	4 6 8	1.50 P	22				80		22	7 17 35	2.46 B	11
										513.6	Very dense, gray SILTY LOAM,						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.12 ft
 North: 1900194.50 ft
 East: 1171641.58 ft
 Station: 8547+50.12
 Offset: 16.2384 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
		trace gravel																
	506.4	Very dense, gray, fine to medium SAND, trace gravel	85	X	23	37 50/3	NP	19		491.4	Very dense, gray SILTY LOAM to SILT	105	X	27	28 28 45	NP	24	
			90	X	24	20 25 25	NP	10		486.4	Very dense, gray SILT to fine SAND	110	X	28	27 39 34	NP	17	
			95	X	25	16 25 28	NP	19		480.6	Strong, light gray, poor rock mass quality, bedded slightly weathered DOLOSTONE, with shale partings, up to 20-inch beds, 3-inch spaced joints, horizontal and vertical joints with 115 none or less than <0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity. Run 1 - RECOVERY = 100% RQD = 38%							
			100	X	26	29 34 39	NP	19				120						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **5.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 31-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.12 ft
 North: 1900194.50 ft
 East: 1171641.58 ft
 Station: 8547+50.12
 Offset: 16.2384 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	470.6	Boring terminated at 122.50 ft															
			125														
			130														
			135														
			140														

GENERAL NOTES

Begin Drilling **06-24-2014** Complete Drilling **06-24-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ **5.50 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.40 ft
 North: 1900327.19 ft
 East: 1171617.41 ft
 Station: 8680+61.64
 Offset: 3.3374 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.14	1-inch thick, ASPHALT --PAVEMENT--									--S _{u remold} = 440.3 psf-- --Sensitivity = 1.82--						
	576.21	1-inch thick, CONCRETE --PAVEMENT--															
	575.7	CRUSHED STONE --BASE COURSE--			1	3 2 3	2.25 P	19									
		Stiff, gray SILTY CLAY, trace gravel and brick fragments --FILL--															
	572.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	3 3 4	1.17 N/6				--In-Situ Vane Shear, 24.5 feet-- --S _{u undis} = 984.2 psf-- --S _{u remold} = 466.2 psf-- --Sensitivity = 2.11--	25		4			
					3	1 2 2	0.25 B	22									
		--In-Situ Vane Shear, 9.5 feet-- --S _{u undis} = 725.2 psf-- --S _{u remold} = 440.3 psf-- --Sensitivity = 1.65--			1						--In-Situ Vane Shear, 29.5 feet-- --S _{u undis} = 1450.4 psf-- --S _{u remold} = 751.1 psf-- --Sensitivity = 1.93--	30		5			
															4 4 5	0.82 B	25
		--In-Situ Vane Shear, 14.5 feet-- --S _{u undis} = 699.3 psf-- --S _{u remold} = 362.6 psf-- --Sensitivity = 1.93--			2										3 4 6	0.74 B	20
		--In-Situ Vane Shear, 19.5 feet-- --S _{u undis} = 802.9 psf--			3										3 5 6	1.31 B	22
										540.7	Stiff to very stiff, gray SILTY CLAY, trace gravel						

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GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-02-2014** Complete Drilling **07-02-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 9.5', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 32-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.40 ft
 North: 1900327.19 ft
 East: 1171617.41 ft
 Station: 8680+61.64
 Offset: 3.3374 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	515.7									515.7	Very dense, gray SILTY LOAM, trace gravel						
		--Interbedded SILT--	45	X	7	5 6 5	3.44 B	17			--Wet--		X	11	22 28 37	NP	16
										512.4	Boring terminated at 65.00 ft	65					
	525.7	Very stiff, gray CLAY, trace gravel															
	520.7	Very stiff, gray SILTY CLAY LOAM															
		--Interbedded SILT and SAND, saturated--	60	X	10	3 4 4	2.00 P	15				80					

GENERAL NOTES

Begin Drilling **07-02-2014** Complete Drilling **07-02-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 9.5', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.52 ft
 North: 1900472.26 ft
 East: 1171630.21 ft
 Station: 8682+07.13
 Offset: 3.8668 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	582.5	12-inch thick ASPHALT --PAVEMENT--															
	580.3	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--	1	X	1	3 1 2	2.05 B	22				9	X	9	1 1 1	0.08 B	25
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5	X	2	2 2 1	0.25 P	25				25	X	10	1 1 2	0.33 B	27
				X	3	2 2 1	0.25 B	21					X	11	1 1 1	0.25 B	28
			10	X	4	2 3 3	< 0.25 P	22				30	X	12	0 1 2	0.25 B	26
				X	5	1 1 1	0.16 B	28		551.8	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
			15	X	6	1 1 2	0.41 B	23				35	○	13	2 3 3	1.00 N/6	
				X	7	1 1 2	0.33 B	23									
			20	X	8	1 1 1	0.25 B	27				40	X	14	3 4 5	1.72 B	15

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-26-2014** Complete Drilling **06-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.52 ft
 North: 1900472.26 ft
 East: 1171630.21 ft
 Station: 8682+07.13
 Offset: 3.8668 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	526.8	Stiff to very stiff, gray CLAY, trace gravel	45	X	15	3 4 4	1.56 B	22	Hatched	518.5		65	X	19	5 6 7	1.25 P	32
			50	X	16	4 3 5	1.39 B	23			Boring terminated at 65.00 ft						
			55	X	17	5 6 8	2.62 B	20									
			60	X	18	5 6 6	2.62 B	28									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-26-2014** Complete Drilling **06-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 32-RWB-03

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 590.67 ft
 North: 1900619.59 ft
 East: 1171621.95 ft
 Station: 8683+53.96
 Offset: 10.7621 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	590.34	5.5-inch thick ASPHALT --PAVEMENT--															
	589.59	9.5-inch thick CONCRETE --PAVEMENT--															
	587.4	Loose, brown and white CRUSHED STONE --BASE COURSE--			1	6 8 3	NP	7									
		Medium stiff, brown SILTY CLAY, trace gravel and brick fragments --FILL--			2	3 3 4	0.50 P	22									
					3	3 3 9	0.57 B	24									
		--Obstruction at 8.5 feet--															
	582.2	Boring terminated at 8.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-30-2014** Complete Drilling **06-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 32-ST-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.90 ft
 North: 1900516.46 ft
 East: 1171630.30 ft
 Station: 8682+51.29
 Offset: 2.0492' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.64	1/4-inch thick, ASPHALT --PAVEMENT--															
	584.9	8-inch thick, CONCRETE --PAVEMENT--															
	583.4	Loose, gray GRAVELLY SAND --BASE COURSE--			1	4 4 2	NP	4						5			
		Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	3 4 4	2.25 P	16						6			
	580.4	Soft, gray CLAY to SILTY CLAY, trace gravel			3	1 1 2	0.33 B	25						7			
		--UU test-- --Shear Strength(C _u)=288 psf--			1		PUSH	0.50 P	25					8			
					2		PUSH	<0.25 P	26					9			
		--UU test-- --Shear Strength(C _u)=576 psf--			3		PUSH	<0.25 P	24					10			
					4		PUSH	<0.25 P	24								
										547.9							
											Boring terminated at 38.00 ft						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-20-2014** Complete Drilling **10-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked **GLM (-coord, lab)**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.44 ft
 North: 1900575.06 ft
 East: 1171619.65 ft
 Station: 8683+09.37
 Offset: 11.1322 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	588.14	14-inch thick ASPHALT --PAVEMENT--															
	586.9	14-inch thick CONCRETE --PAVEMENT--															
		Loose to medium dense, brown and white CRUSHED STONE --BASE COURSE--	1		1	10 9 8	NP	4						9	1 1 1	0.16 B	25
			2		2	4 2 2	NP	4				25		10	1 1 2	0.25 B	26
	582.9	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	3		3	2 3 3	1.00 N/6							11	1 1 1	0.25 B	26
			4		4	1 2 2	0.16 B	27				30		12	1 1 2	0.33 B	26
			5		5	4 3 1	< 0.25 P	26									
			6		6	1 1 1	0.16 B	27				35		13	1 2 2	< 0.25 P	26
			7		7	1 1 1	0.16 B	21									
			8		8	1 1 1	0.25 B	26				40		14	2 3 3	0.41 B	24

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-29-2014** Complete Drilling **06-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 588.44 ft
 North: 1900575.06 ft
 East: 1171619.65 ft
 Station: 8683+09.37
 Offset: 11.1322 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	546.7	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel															
			45	X	15	3 4 4	1.07 B	12		523.4		65	X	19	4 6 7	1.97 B	19
											Boring terminated at 65.00 ft						
			50	X	16	3 5 6	1.39 B	21				70					
			55	X	17	5 7 7	1.64 B	20				75					
			60	X	18	3 5 8	1.89 B	17				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-29-2014** Complete Drilling **06-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **N&K** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 33-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.96 ft
 North: 1900708.05 ft
 East: 1171630.08 ft
 Station: 8684+42.69
 Offset: 6.4626 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.5	5-inch thick ASPHALT --PAVEMENT--															
	593.0	7-inch thick CONCRETE --PAVEMENT--															
		Medium dense, grayish white SANDY GRAVEL --FILL--			1	7 13 17	NP	3						9	0 0 0	0.41 B	31
					2	8 5 4	NP	4						10	0 0 1	< 0.25 P	32
	587.3	Loose, brown, fine SAND, trace gravel --FILL--			3	3 3 3	NP	5						11	0 0 0	0.49 B	27
	586.0	Grayish white SANDY GRAVEL --FILL--			4	3 3 3	0.50 P	19						12	0 1 2	< 0.25 P	28
	584.5	Medium stiff, brown SILTY CLAY LOAM, trace gravel --FILL--	10		5	3 2 3	NR										
	582.2	Medium dense, grayish white SANDY GRAVEL --FILL--			6	8 11 16	NP	9						13	0 0 1	0.41 B	26
	578.5	Stiff, brown and gray SILTY CLAY LOAM to SILTY CLAY, trace gravel			7	1 2 4	1.23 B	24									
	576.0	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			8	1 2 2	< 0.25 P	30						14	0 0 0	0.41 B	27

--L_L(%)=39, P_L(%)=18--
 --%Gravel=5.1--
 --%Sand=13.2--
 --%Silt=42.2--
 --%Clay=39.5--
 --A-6 (17)--

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-01-2014** Complete Drilling **07-02-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.96 ft
 North: 1900708.05 ft
 East: 1171630.08 ft
 Station: 8684+42.69
 Offset: 6.4626 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.0	Stiff to very stiff, gray SILTY CLAY, trace gravel	45	15	002	0.74 B	25	22		515.3	Hard, gray SILTY LOAM, trace gravel	65	19	379	1.97 B	20	
			50	16	014	0.66 B	20					379	2.46 B	20			
			55	17	274	0.90 B	21					257	1.56 B	25			
			60	18	156	1.31 B	22					395/3	4.43 S	10			

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-01-2014** Complete Drilling **07-02-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 33-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.96 ft
 North: 1900708.05 ft
 East: 1171630.08 ft
 Station: 8684+42.69
 Offset: 6.4626 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
											--HARD DRILLING--						
		--L ₁ (%)=23, P ₁ (%)=12-- --%Gravel=6.9-- --%Sand=20.1-- --%Silt=57.0-- --%Clay=15.9-- --A-6 (5)--			23	24 37 40	10.25 S	11			--possible hardpan-- Run 1 - RECOVERY = 0% RQD = 0%	105		1			
	507.2	Medium dense, gray SILT --wet--			24	10 10 14	NP	26			--possible hardpan-- Run 2 - RECOVERY = 0% RQD = 0%	110		2			
	500.2	Very stiff, brown, fine SAND and SILT --wet--	95		25	22 44 38/4	NP	14			--HARD DRILLING-- --frequent rig chatter-- --possible WEATHERED BEDROCK--	115					
	497.2	Very dense, gray SILTY LOAM, trace gravel --damp-- --Dolostone fragments-- --possible cobbles and boulders--	100		26	50/5	NP	9			Strong, light gray, good rock mass quality, bedded fresh DOLOSTONE, up to 20-inch beds, 9-inch spaced joints, horizontal joints with none or less than <0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity. Run 3 - RECOVERY = 100% RQD = 86%	120		3			

GENERAL NOTES

Begin Drilling **07-01-2014** Complete Drilling **07-02-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 33-RWB-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.96 ft
 North: 1900708.05 ft
 East: 1171630.08 ft
 Station: 8684+42.69
 Offset: 6.4626 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--drilling water loss--															
	471.5	Boring terminated at 122.50 ft															
			125														
			130														
			135														
			140														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-01-2014** Complete Drilling **07-02-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **Rotary wash**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG 34-RWB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.30 ft
 North: 1899974.61 ft
 East: 1171509.36 ft
 Station: 6156+73.72
 Offset: 21.5607 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.04	14-inch thick, ASPHALT															
		14-inch thick, CONCRETE															
	575.3	Dense, white CRUSHED STONE --BASE COURSE-- --DRY--		X	1	23 25 15	NP	6					X	5	0 0 2	0.41 B	24
	573.8	Stiff, gray and brown SILTY CLAY LOAM, trace gravel		X	2	1 2 3	1.23 B	19		552.8	Medium stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --In-Situ Vane Shear, 26.5 feet-- --S _{u undis} = 1140 psf-- --S _{u remold} = 673 psf-- --Sensitivity = 1.69--						
	571.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		X	3	0 1 3	0.41 B	18					X	3			
		--In-Situ Vane Shear, 11.5 feet-- --S _{u undis} = 1010 psf-- --S _{u remold} = 544 psf-- --Sensitivity = 1.86--		X	1								X	6	1 1 3	0.90 B	15
				X	4	0 1 2	0.49 B	25					X	4			
		--In-Situ Vane Shear, 34.0 feet-- --S _{u undis} = 1165 psf-- --S _{u remold} = 544 psf-- --Sensitivity = 2.13--		X	2								X	7	5 10 14	2.21 B	20
		--In-Situ Vane Shear, 19.0 feet-- --S _{u undis} = 803 psf-- --S _{u remold} = 363 psf-- --Sensitivity = 2.12--		X	2								X	7			

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-21-2014** Complete Drilling **07-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **19.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 34-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.30 ft
 North: 1899974.61 ft
 East: 1171509.36 ft
 Station: 6156+73.72
 Offset: 21.5607 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	515.6									515.6	Very dense, gray SILTY LOAM --Moist--						
			45	X	8	2 4 6	1.89 B	17				65	X	12	19 22 36	1.25 P	23
										512.3	Boring terminated at 65.00 ft						
			50	X	9	5 6 13	3.28 B	21				70					
	525.6	Stiff, gray SILTY CLAY, trace gravel															
			55	X	10	5 5 8	1.97 B	27				75					
	520.6	Stiff, gray SILTY CLAY LOAM, trace gravel															
			60	X	11	4 5 11	1.75 P	19				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-21-2014** Complete Drilling **07-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **A&K** Logger **A. Happel** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **19.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 35-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.57 ft
 North: 1900019.05 ft
 East: 1171479.36 ft
 Station: 8562+48.73
 Offset: 6.7436 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.1	6-inch thick, ASPHALT --PAVEMENT--															
	585.6	6-inch thick, CONCRETE --PAVEMENT--															
	584.4	White CRUSHED STONE --BASE COURSE--			1	3 5 6	NP	3						9	0 1 2	0.33 B	25
		Medium dense, brown, fine SAND, trace gravel --FILL--			2	6 6 7	NP	3						10	0 1 2	< 0.25 P	25
			5														
					3	4 3 3	NP	3						11	0 0 1	< 0.25 P	26
	579.7	Loose, grayish white SANDY GRAVEL --FILL--			4	1 2 2	NP	3						12	1 4 5	0.49 B	25
			10														
					5	2 2 2	NR										
					6	5 3 2	0.30 P	22						13	0 3 2	0.41 B	24
	572.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	0 1 2	0.08 B	23									
			15														
					8	0 0 1	0.33 B	25						14	1 2 3	0.66 B	26
			20														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-07-2014** Complete Drilling **07-08-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 35-RWB-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.57 ft
 North: 1900019.05 ft
 East: 1171479.36 ft
 Station: 8562+48.73
 Offset: 6.7436 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	539.8	Very stiff, gray SILTY CLAY, trace gravel	45		15	2 4 7	0.50 P	23				65		19	4 7 9	2.79 B	25
	517.6		Very dense, gray SILTY LOAM, trace to some gravel	50		16	5 7 10	2.13 B	23			70		20	8 10 11	3.50 N/6	16
	509.8			Very dense, gray GRAVELLY SAND --Moist--	55		17	5 7 8	2.50 N/6	25			75		21	38 52 10/1	NP
			60			18	5 10 16	2.00 P	22				80		22	32 40 38/5	NP

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-07-2014** Complete Drilling **07-08-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 35-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.57 ft
 North: 1900019.05 ft
 East: 1171479.36 ft
 Station: 8562+48.73
 Offset: 6.7436 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	499.8	Dense to very dense, gray, fine to medium SAND, trace gravel --Moist--	85	23	19 33 33	NP	4			484.8	Very dense, gray GRAVELLY SAND --Wet--	85	27	50/5	NP	18	
		--possible underpressure groundwater bearing layer--	90	24	20 26 25	NP	12			481.6	Strong, light gray, poor rock mass quality, bedded DOLOSTONE, up to 6-inch beds, 3-inch spaced joints, horizontal joints with none or less than <0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.	105	1				
		--Wet--	95	25	15 14 18	NP	20			478.6	--Run 1- RECOVERY= 97%-- --RQD= 32%-- Boring terminated at 108.00 ft	110					
			100	26	16 29 27	NP	18					115					
												120					

GENERAL NOTES

Begin Drilling **07-07-2014** Complete Drilling **07-08-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 35-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.37 ft
 North: 1899923.16 ft
 East: 1171484.85 ft
 Station: 8563+44.20
 Offset: 12.9370 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.04	1/4-inch thick ASPHALT --PAVEMENT--															
	579.2	10-inch thick CONCRETE --PAVEMENT--															
		Loose to dense, gray CRUSHED STONE --FILL--			1	9 30 12	NP	9						9	0 0 0	0.49 B	24
					2	4 5 4	NP	4				25		10	0 0 0	0.49 B	25
	574.9	Soft to medium stiff, brown CLAY to SILTY CLAY, trace gravel			3	0 0 0	0.41 B	21						11	0 0 0	0.57 B	25
		--Wet SAND lens--			4	0 0 0	0.33 B	27						12	0 0 0	0.49 B	25
					5	0 0 0	0.25 B	27									
					6	0 0 0	0.66 B	25						13	0 0 0	0.41 B	26
					7	0 0 0	0.66 B	24		543.6	Stiff to hard, gray SILTY CLAY, trace to little gravel						
					8	0 0 0	0.74 B	25				40		14	3 4 4	1.33 N/6	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2014** Complete Drilling **07-08-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ▽ **8.00 ft**
 At Completion of Drilling ▾ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▾ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.37 ft
 North: 1899923.16 ft
 East: 1171484.85 ft
 Station: 8563+44.20
 Offset: 12.9370 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	523.6	Stiff, gray CLAY to SILTY CLAY, trace gravel								518.6	Stiff, gray SILTY CLAY LOAM, trace gravel						
			45	X	15	3 5 5	1.97 B	19		515.4	Boring terminated at 65.00 ft	65	X	19	4 7 5	1.07 B	13
			50	X	16	4 5 5	1.72 B	16									
			55	X	17	7 7 11	4.51 B	20									
			60	X	18	2 2 3	1.23 B	29									

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-08-2014** Complete Drilling **07-08-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **A&K** Logger **A. Mohammed** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **8.00 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.00 ft
 North: 1899631.31 ft
 East: 1171348.77 ft
 Station: 8385+16.06
 Offset: 6.8052 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.8	14-inch thick, CONCRETE															
		Loose to very dense, gray and white, SANDY GRAVEL --FILL-- --Dry--			1	50/6	NP	7						9	0 1 2	< 0.25 P	34
			5		2	8 4 4	NP	11				25		10	0 1 2	< 0.25 P	31
	576.5	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			3	1 2 3	0.41 B	24						11	0 1 2	< 0.25 P	34
			10		4	0 1 2	0.25 B	24				30		12	1 2 3	< 0.25 P	26
					5	0 2 2	0.41 B	21									
			15		6	0 0 0	0.33 B	25				35		13	1 2 3	< 0.25 P	27
					7	0 0 0	0.33 B	23									
			20		8	0 0 0	0.33 B	25				40		14	3 3 3	0.41 B	21

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-21-2014** Complete Drilling **07-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.00 ft
 North: 1899631.31 ft
 East: 1171348.77 ft
 Station: 8385+16.06
 Offset: 6.8052 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.2	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel															
			45	X	15	4 8 9	2.79 B	16		517.7	Medium stiff, gray SILTY LOAM, trace gravel Boring terminated at 65.00 ft	65	X	19	2 6 10	0.66 B	18
			50	X	16	4 6 13	2.46 B	16		517.0							
			55	X	17	6 12 18	5.00 N/6	21									
	525.2	Very stiff, gray CLAY to SILTY CLAY, trace gravel															
			60	X	18	5 7 10	2.38 B	23									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-21-2014** Complete Drilling **07-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 36-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 589.64 ft
 North: 1899488.20 ft
 East: 1171348.10 ft
 Station: 8386+59.80
 Offset: 15.2402 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick, CONCRETE															
	588.5	Dense, grayish brown SANDY GRAVEL		--FILL-- --Dry--	1	22 17 13	NP	9						9	0 0 0	0.25 B	23
	586.6	Very loose to medium dense, brown, fine to medium SAND, trace gravel		--FILL-- --Dry--	2	7 9 9	NP	6				25		10	0 0 0	< 0.25 P	26
					3	3 2 2	NP	5						11	0 0 0	< 0.25 P	29
					4	0 0 0	NP	7						12	0 0 0	0.25 B	25
		--SILTY CLAY interbeds--			5	15 2 3	NP	17									
	576.6	Very soft to soft, gray CLAY to SILTY CLAY, trace to little gravel			6	0 1 0	0.16 B	25						13	0 0 0	< 0.25 P	30
					7	0 0 0	0.16 B	20									
					8	0 0 0	0.25 B	22						14	0 1 1	< 0.25 P	29

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-22-2014** Complete Drilling **07-22-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 589.64 ft
 North: 1899488.20 ft
 East: 1171348.10 ft
 Station: 8386+59.80
 Offset: 15.2402 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	547.9																
		Stiff, gray SILTY CLAY LOAM, trace gravel	45	X	15	4 4 5	1.89 B	15				65	X	19	9 10 11	3.61 B	15
										524.6	Boring terminated at 65.00 ft						
	542.9	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	50	X	16	2 4 5	0.82 B	21				70					
	537.9	Stiff to very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	55	X	17	3 4 8	1.56 B	18				75					
			60	X	18	5 9 12	2.87 B	19				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-22-2014** Complete Drilling **07-22-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.73 ft
 North: 1899214.79 ft
 East: 1171327.81 ft
 Station: 8311+66.54
 Offset: 22.2819 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	593.1	8-inch thick, CONCRETE --PAVEMENT--																
		Loose, gray GRAVELLY SAND --FILL--			1	5 4 3	NP	3						9	0 0 0	0.25 B	25	
			5		2	3 3 3	NP	6				25		10	0 0 0	0.25 B	24	
	588.2	Stiff to very stiff, gray SILTY CLAY, trace gravel			3	2 4 5	2.05 B	21						11	0 0 0	0.16 B	26	
			10		4	1 3 3	1.15 B	20						12	0 0 0	< 0.25 P	30	
	583.2	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	0 2 2	0.57 B	19										
			15		6	0 0 0	0.33 B	26						13	0 0 0	< 0.25 P	27	
					7	0 0 0	0.33 B	23										
			20		8	0 0 0	0.33 B	25						14	0 0 0	0.25 B	26	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **CLM (-Coord)**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 37-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.73 ft
 North: 1899214.79 ft
 East: 1171327.81 ft
 Station: 8311+66.54
 Offset: 22.2819 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	547.0	Medium stiff, gray SILTY CLAY, trace to some gravel	45	X	15	0 0 0	0.41 B	23		528.7	--SAND lenses--	65	X	19	10 15 17	NP	13
											Boring terminated at 65.00 ft						
			50	X	16	3 6 6	0.57 B	21				70					
		--Disturbed sample--	55	X	17	5 6 11	NA	27				75					
	537.0	Medium dense to dense, gray SILTY LOAM, trace gravel, sand lenses	60	X	18	8 9 15	NP	13				80					

GENERAL NOTES

Begin Drilling **07-31-2014** Complete Drilling **07-31-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **CLM (-Coord)**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 37-RWB-02

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.30 ft
 North: 1899060.29 ft
 East: 1171337.17 ft
 Station: 1312+69.32
 Offset: 42.1927 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.03	1/2-inch thick, ASPHALT --PAVEMENT--															
		Medium dense, brown GRAVELLY SAND --FILL-- --Moist--	5 6 10		1	5 6 10	NP	14									
	589.6	Loose, brown fine SAND --Moist--	5		2	4 4 4	NP	10				25		2	ST	0.50 P	
	587.8	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			3	1 2 3	1.44 B	24									
			10		4	3 5 5	1.44 B	19				30		7	0 0 2	0.19 B	22
	582.8	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	1 1 2	0.57 B	23									
			15		1	ST	< 0.25 P					35		3	ST	0.25 P	
			20		6	0 0 1	0.41 B	20				40		8	0 0 0	0.41 B	25

GENERAL NOTES

Begin Drilling **08-03-2014** Complete Drilling **08-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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BORING LOG 37-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.30 ft
 North: 1899060.29 ft
 East: 1171337.17 ft
 Station: 1312+69.32
 Offset: 42.1927 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45	Vertical Lines	4	ST	0.25 P			528.3		65	X	11	7 10 13	3.49 B	18
			50	X	9	0 2 4	0.62 B	25									
	541.5	Stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	55	Vertical Lines	5	ST	1.25 P										
			60	X	10	9 8 11	5.33 B	16									

GENERAL NOTES

Begin Drilling **08-03-2014** Complete Drilling **08-03-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **M. de los Reyes** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 38-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.87 ft
 North: 1898674.22 ft
 East: 1171408.18 ft
 Station: 1316+53.06
 Offset: 42.7366 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.6	4.5-inch thick, ASPHALT over 10.5-inch thick, CONCRETE --PAVEMENT--															
	575.6	13-inch thick SANDY GRAVEL --BASE COURSE--			1	8 3 3	1.50 P	18						9	1 2 3	0.16 B	26
	574.9	Stiff, gray SILTY CLAY, trace gravel --FILL--			2	1 1 2	0.16 B	23				25		10	1 2 2	0.16 B	25
					3	1 1 2	0.16 B	24						11	1 2 2	0.67 N/6	
					4	0 1 2	0.16 B	23				30		12	2 3 3	0.25 B	27
					5	1 1 1	0.08 B	26									
					6	1 1 2	0.50 N/6					35		13	1 1 3	0.08 B	23
					7	1 1 2	0.16 B	26									
					8	1 1 2	0.08 B	26				40		14	2 4 6	0.25 B	26

GENERAL NOTES

Begin Drilling **08-19-2014** Complete Drilling **08-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 38-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.87 ft
 North: 1898674.22 ft
 East: 1171408.18 ft
 Station: 1316+53.06
 Offset: 42.7366 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	536.1										gravel						
		Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	45	X	15	6 8 10	4.10 B	13		512.9		65	X	19	15 21 25	NP	19
											Boring terminated at 65.00 ft						
			50	X	16	4 6 12	2.38 B	17				70					
			55	X	17	5 9 10	2.54 B	23				75					
	521.1	Very soft (0.16B), gray CLAY															
	518.6	Dense, gray SILTY LOAM, trace	60	X	18	2 3 6	NP	20				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-19-2014** Complete Drilling **08-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG 38-RWB-01HA

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 589.82 ft
 North: 1898677.09 ft
 East: 1171357.96 ft
 Station: 1316+53.10
 Offset: 7.5636 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	588.3	Black LOAM, trace gravel, w/roots, w/wood chips --TOPSOIL--			1	P U S H	NP	21									
		Gray SILTY LOAM to SILTY CLAY LOAM, trace gravel --FILL--			2	P U S H	NP	19									
	584.8		5		3	P U S H	2.50 P	19									
		Stiff to very stiff, gray SILTY CLAY, trace gravel			4	P U S H	1.50 P	20									
	581.3				5	P U S H	0.40 P	19									
	579.8	Soft, gray CLAY to SILTY CLAY, trace gravel	10														
		Boring terminated at 10.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-28-2014** Complete Drilling **08-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG 38-RWB-02

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.09 ft
 North: 1898515.97 ft
 East: 1171368.28 ft
 Station: 1318+10.03
 Offset: 21.6181 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.6	5-inch thick, ASPHALT --PAVEMENT--															
	574.8	10-inch thick, gray SANDY GRAVEL --FILL--			1	1	1.97 B	17						10	1 1 2	0.33 B	25
	573.3	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--			2	1 1 1 2	0.33 B	26				25		11	1 1 1 2	0.25 B	25
		Soft, gray CLAY to SILTY CLAY, trace gravel	5		3	1 1 2 2	0.33 B	25						12	1 1 2	0.33 B	24
			10		4	0 1 2 2	0.33 B	26						13	1 2 3	0.49 B	25
			15		5	2 2 2 2	0.25 B	26						14	2 3 3	0.49 B	20
			20		6	1 1 1	0.33 B	25						15	5 6 8	2.46 B	19
					7	1 1 1	0.33 B	26									
					8	1 1 1	0.25 B	23		539.3	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel						
					9	1 1 1	0.33 B	24									

GENERAL NOTES

Begin Drilling **08-20-2014** Complete Drilling **08-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **Solid flight auger to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 38-RWB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.09 ft
 North: 1898515.97 ft
 East: 1171368.28 ft
 Station: 1318+10.03
 Offset: 21.6181 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45	✓	16	5 9 12	1.60 P	17		511.1	Very dense, gray SILTY LOAM, trace gravel --DRY--	65	✓	20	15 28 32	NP	14
			50		17	9 10 10	3.33 N/6				Boring terminated at 65.00 ft						
	524.3	Very stiff, gray CLAY to SILTY CLAY, trace gravel	55	✓	18	6 7 11	2.21 B	28				75					
	519.3	Hard, gray SILTY CLAY LOAM, trace gravel	60	✓	19	8 13 22	4.43 B	17				80					
	516.3																

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GENERAL NOTES

Begin Drilling **08-20-2014** Complete Drilling **08-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **Solid flight auger to 11', mud rotary thereafter,**
boring backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG 38-RWB-02HA

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.04 ft
 North: 1898532.77 ft
 East: 1171339.09 ft
 Station: 1318+00.41
 Offset: 10.6331 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.0	12-inch thick, black LOAM, trace gravel and brick fragments --TOPSOIL--			1	P U S H	NP	21									
	580.3	Brown, SANDY GRAVEL, trace brick fragments --FILL--															
		Very stiff, gray SILTY CLAY LOAM to SILTY CLAY, trace gravel --FILL--			2	P U S H	2.50 P	16									
			5		3	P U S H	2.00 P	16									
	575.0	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	P U S H	0.70 P	19									
					5	P U S H	0.40 P	20									
	572.0	Boring terminated at 10.00 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-28-2014** Complete Drilling **08-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG 39-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.87 ft
 North: 1898358.83 ft
 East: 1171247.64 ft
 Station: 1320+04.07
 Offset: 27.4619 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.63	1-inch thick, ASPHALT --PAVEMENT--															
	580.71	1-inch thick, CONCRETE --PAVEMENT--															
		Loose, gray SANDY LOAM, trace gravel and brick fragments			1	2 4 3	NP	12						9	1 1 1	0.16 B	28
	578.9	--FILL--															
		Stiff, gray SILTY CLAY, trace gravel			2	1 3 4	1.15 B	21						10	1 1 2	< 0.25 P	29
	576.4																
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	0 0 2	0.33 B	26						11	0 1 2	0.49 B	25
					4	0 1 1	0.49 B	25						12	0 2 3	0.82 B	25
					5	0 0 1	0.08 B	28									
					6	0 0 0	0.25 B	27						13	3 3 5	0.82 B	18
					7	0 0 1	0.16 B	25									
					8	0 0 0	0.16 B	26						14	4 7 17	0.70 P	29

GENERAL NOTES

Begin Drilling **08-07-2014** Complete Drilling **08-07-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **2.50 ft**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 39-RWB-01

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.87 ft
 North: 1898358.83 ft
 East: 1171247.64 ft
 Station: 1320+04.07
 Offset: 27.4619 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	540.1	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel --DRY--															
			45		15	5 8 13	4.51 B	15									
			50		16	12 20 21	5.58 S	11									
	530.1	Gray, fine SAND, trace gravel --DRY--															
	527.6	Very dense, gray SILTY LOAM, trace gravel --DRY--	55		17	8 11 13	NP	17									
	521.9		60		18	13 50/6	NP	14									
		Boring terminated at 60.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-07-2014** Complete Drilling **08-07-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50 TMR [78%]**
 Driller **R&J** Logger **S. Woods** Checked by **C. Marin**
 Drilling Method **2.25" SSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **2.50 ft**
 At Completion of Drilling ▽ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 39-RWB-01HA

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.50 ft
 North: 1898317.61 ft
 East: 1171210.29 ft
 Station: 1320+62.52
 Offset: 33.3936' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.0	6-inch thick, brown CLAY LOAM, trace roots															
		--TOPSOIL--															
	578.7	Very stiff, gray SILTY CLAY LOAM, trace gravel			1	PUSH	3.00	17									
		Gray, fine to coarse SAND			2	PUSH	NP	4									
			5		3	PUSH	NP	11									
					4	PUSH	NP	6									
					5	PUSH	NP	16									
	571.0	--Wet--															
		Boring terminated at 9.50 ft	10														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-28-2014** Complete Drilling **10-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **P&P** Logger **F. Bozga** Checked by **M. Seyhun**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG BFB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.78 ft
 North: 1896998.21 ft
 East: 1171705.12 ft
 Station: 6234+87.06
 Offset: 125.33' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.1	8.5-inch thick CONCRETE --PAVEMENT--															
	579.5	7.5-inch thick, gray SANDY GRAVEL; damp --BASE COURSE--			1	3 2 4	NP	20						9	0 1 1	0.25 B	24
	577.8	Stiff (1.75P), brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			2	1 3 3	0.90 B	21						10	1 1 1	0.25 B	25
		Soft to medium stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 1--			3	1 1 2	0.41 B	17						11	1 2 1	0.33 B	26
					4	1 2 2	0.49 B	16						12	1 1 2	0.33 B	25
	570.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 1--			5	1 1 2	0.16 B	24						13	1 2 3	0.57 B	24
		--L _L (%)=35, P _L (%)=18-- --%Gravel=5.3-- --%Sand=14.1-- --%Silt=46.6-- --%Clay=33.9-- --A-6 (13)--			6	1 1 1	0.25 B	22						14	1 2 2	0.57 B	25
					7	1 1 1	0.25 B	24						15	2 3 6	0.57 B	26
					8	0 1 1	0.25 B	25		542.8	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR 2--			16	2 12 24	3.00 P	12

GENERAL NOTES

Begin Drilling **06-27-2019** Complete Drilling **06-27-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10' mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **52.00 ft**
 At Completion of Drilling **9 ft Mud**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG BFB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.78 ft
 North: 1896998.21 ft
 East: 1171705.12 ft
 Station: 6234+87.06
 Offset: 125.33' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	539.0	Hard, gray SILTY CLAY, trace gravel; damp --RDR 2--							[Pattern]								
	45		17	9 13 26	6.07 B	18											
									[Pattern]		--%Gravel=27.9-- --%Sand=55.7-- --%Silt=13.9-- --%Clay=2.5-- --A-1-b (0)--65						
									[Pattern]								
	528.8	Medium dense to dense, dark gray GRAVELLY SANDY LOAM; wet to saturated --RDR 2--							[Pattern]								
									[Pattern]		--hard drilling, from 77 feet-- --possible cobbles--						
	503.8	Hard, gray SILTY LOAM, little to some gravel; dry --RDR 3 to 5--							[Pattern]								
									[Pattern]		70/4" > 4.50 P						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-27-2019** Complete Drilling **06-27-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **52.00 ft**
 At Completion of Drilling ∇ **9 ft Mud**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG BFB-01

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.78 ft
 North: 1896998.21 ft
 East: 1171705.12 ft
 Station: 6234+87.06
 Offset: 125.33' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--possible cobbles--															
	496.3	--slow advancement from 83.5 to 86.0 feet-- --cobbles and boulders--	85		25	70/4	4.50 P										
		Strong, light grayish gray, good quality, DOLOSTONE; Moderately spaced, fresh, horizontal and oblique joints, with 0-0.2 inch opening, slicken to slightly rough walls, and <0.2 inch thick sand infill. Run 1 : 86 to 96 feet --Recovery=100% --RQD=87% --Q _u =16,270 psi	90						C O R E								
			95		26												
	484.8	Boring terminated at 96.00 ft	100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-27-2019** Complete Drilling **06-27-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **52.00 ft**
 At Completion of Drilling ∇ **9 ft Mud**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG BFB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.59 ft
 North: 1896913.63 ft
 East: 1171664.99 ft
 Station: 6235+62.04
 Offset: 69.27' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	578.8	10-inch thick CONCRETE --PAVEMENT--																
	577.9	10-inch thick, loose, gray SANDY GRAVEL; moist --BASE COURSE--			1	7 3 3	NP	6			--L _L (%)=35, P _L (%)=18-- --%Gravel=4.2-- --%Sand=13.9-- --%Silt=46.9-- --%Clay=34.9-- --A-6 (13)--			9	1 1 1	0.33 B	25	
	576.6	Medium stiff (0.75P), brown to gray SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--			2	2 2 3	0.66 B	36						10	0 1 2	0.25 B		26
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 1-- --L _L (%)=44, P _L (%)=20-- --%Gravel=0.5-- --%Sand=5.3-- --%Silt=38.6-- --%Clay=55.5-- --A-7-6 (24)--	5		3	0 1 1	0.57 B	24						11	1 1 2	0.33 B		25
			10		4	2 1 2	0.82 B	19						12	1 2 3	0.25 B		20
					5	1 1 2	0.16 B	24						13	0 2 2	0.57 B		25
			15		6	1 1 2	0.33 B	23		545.3	Stiff to hard, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--	35		14	2 2 4	1.00 N/6		
					7	0 1 2	0.33 B	26						15	4 6 8	1.75 P		16
			20		8	1 1 2	0.33 B	25						16	10 15 23	6.48 S		13

GENERAL NOTES

Begin Drilling **06-26-2019** Complete Drilling **06-26-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10' mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **44.00 ft**
 At Completion of Drilling **10 ft Mud**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG BFB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.59 ft
 North: 1896913.63 ft
 East: 1171664.99 ft
 Station: 6235+62.04
 Offset: 69.27' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	535.6																	
	535.1	Gray SILTY LOAM; wet	45		17A	9 18 23	6.50 B	17			--possible cobbles-- --%Gravel=6.8-- --%Sand=75.9-- --%Silt=14.4-- --%Clay=2.8-- --A-1-b (0)--	65		21	12 14 16		NP	16
		Hard, gray SILTY CLAY, trace gravel; damp									--RDR 2--							
			50		18	13 15 25	9.35 B	21		512.8	Dense to very dense, gray SANDY GRAVEL, few cobbles; wet	70		22	15 23 23		NP	10
											--RDR 3 to 4--							
		--change in drilling conditions at 52.5 feet--									--occasional chatter-- --possible cobbles--							
	527.1	Dense, gray GRAVELLY SAND; wet	55		19	19 23 18		10			--few cobble fragments--	75		23	47 50/5"		NP	8
	522.8	Dense, dark gray, medium to coarse SAND; wet to saturated	60		20	9 14 17		18		502.8	Very dense, gray SILTY LOAM, trace gravel; damp to moist	80		24	33 50/5"	4.59	S	10
											--RDR 2 to 3--							
											--RDR 3 to 5--							

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GENERAL NOTES

Begin Drilling **06-26-2019** Complete Drilling **06-26-2019**
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 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
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backfilled upon completion

WATER LEVEL DATA

While Drilling **44.00 ft**
 At Completion of Drilling **10 ft Mud**
 Time After Drilling **NA**
 Depth to Water **NA**

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BORING LOG BFB-02

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Client: **AECOM**
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 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.59 ft
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Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		25	25 50/5"	3.28 S	11									
	494.1	--slow auger advancement from 85.5 to 87.0 feet-- --WEATHERED BEDROCK--															
	492.6	Strong, light grayish gray, good quality, DOLOSTONE; Moderately spaced, fresh, horizontal and oblique joints, with 0-0.2 inch opening, slicken to slightly rough walls, and 0 - 0.2 inch thick clay infill. Run 1 : 87 to 97 feet --Recovery=100% --RQD=83% --Q _u =6,930 psi	90						C O R E								
			95														
	482.6	Boring terminated at 97.00 ft	100														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-26-2019** Complete Drilling **06-26-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10' mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **44.00 ft**
 At Completion of Drilling ∇ **10 ft Mud**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG BFB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.67 ft
 North: 1896828.82 ft
 East: 1171708.99 ft
 Station: 6236+56.31
 Offset: 92.89' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.8	10-inch thick CONCRETE --PAVEMENT--															
	575.7	Medium dense, gray CRUSHED STONE --AGGREGATE BASE--	1	X	1	12 10 4	NP	5				9	X	9	1 1 1	0.16 B	26
		Soft to medium stiff, gray SILTY CLAY LOAM, trace gravel --RDR 1--	5	X	2	4 2 3	NA	24				25	X	10	0 1 2	0.16 B	27
				X	3	2 2 4	0.82 B	19					X	11	1 1 2	0.41 B	26
			10	X	4	1 2 3	0.49 B	15				30	X	12	1 2 2	0.49 B	25
	568.2	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel --RDR 1--		X	5	1 1 2	0.25 B	26					X	13	1 2 2	0.57 B	27
				X	6	1 1 1	0.16 B	26		544.2			X	14	2 2 3	0.57 B	23
			15	X	7	1 1 0	0.25 B	26				35	X	15	5 5 10	2.46 B	14
				X	8	0 0 0	0.16 B	23					X	16	15 21 20	8.28 B	14

GENERAL NOTES

Begin Drilling **06-24-2019** Complete Drilling **06-24-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10' mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **52.50 ft**
 At Completion of Drilling ∇ **9 ft Mud**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG BFB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.67 ft
 North: 1896828.82 ft
 East: 1171708.99 ft
 Station: 6236+56.31
 Offset: 92.89' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=12.1-- --A-4 (0)--															
	516.9	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace to little gravel; damp --RDR 3 to 4--															
		--<1-inch thick silt lenses; wet--	45		17	7 13 16	9.76 B	12				65		21	19 20 24	7.46 B	12
			50		18	9 12 17	6.89 B	12				70		22	29 50/5"	4.18 B	11
	526.9	Dense, gray SANDY GRAVEL, trace cobbles; wet --RDR 3--															
		--rig chatter; possible cobbles--	55		19	14 17 15	NP	8						23	26 35 29	7.71 B	10
	521.9	Medium dense, dark gray, fine SAND, few silt lenses; wet --RDR 2--															
			60		20	14 14 15	NP	22				80		24	33 50/5"	9.76 B	20
	501.9	Hard, gray SILTY CLAY, trace gravel; moist --RDR 3 to 4--															
	499.4	Gray, fine SAND; wet															
	498.7																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2019** Complete Drilling **06-24-2019**
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BORING LOG BFB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.67 ft
 North: 1896828.82 ft
 East: 1171708.99 ft
 Station: 6236+56.31
 Offset: 92.89' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--RDR 4-- --hard drilling, from 80 feet-- Very dense, gray SILTY LOAM, fe cobbles and boulders, some dolostone fragments; wet --RDR 5--								477.7	Boring terminated at 101.00 ft						
	494.2			X	25	50/6"	NP	9									
		Strong, light brownish gray, good quality, DOLOSTONE; Closely spaced, fresh, horizontal and oblique joints, with 0.05 - > 0.2 inch opening, slightly rough to rough walls, and 0 - 0.2 inch thick clay infill. Run 1 : 86 to 96 feet --Recovery=100% --RQD=80% --Qu=9,840 psi	85									105					
					26												
			90									110					
			95									115					
		Run 2 : 96 to 101 feet --Recovery=93% --RQD=82%															
					27												
			100									120					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-24-2019** Complete Drilling **06-24-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

While Drilling ∇ **52.50 ft**
 At Completion of Drilling ∇ **9 ft Mud**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

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BORING LOG BFB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.34 ft
 North: 1896731.22 ft
 East: 1171690.68 ft
 Station: 6237+45.14
 Offset: 58.81' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	576.5	9.5-inch thick CONCRETE --PAVEMENT--																
	574.3	Medium dense, gray SANDY GRAVEL; damp --BASE COURSE-- --RDR 2--			1	12 13 14	NP	4			--L _L (%)=34, P _L (%)=17-- --%Gravel=6.1-- --%Sand=14.1-- --%Silt=47.2-- --%Clay=32.6-- --A-6 (12)--			9	0 1 1	0.16 B	25	
	571.8	Medium stiff, gray CLAY LOAM to LOAM, trace gravel; damp --FILL-- --RDR 1-- --L _L (%)=25, P _L (%)=17-- --%Gravel=12.7-- --%Sand=28.1-- --%Silt=41.7-- --%Clay=17.5-- --A-4 (2)--			2	1 2 2	0.90 B	14							10	1 1 1	< 0.25 P	25
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 1--			3	1 2 2	0.74 B	21							11	1 2 3	< 0.25 P	27
					4	1 1 2	0.49 B	24							12	1 1 3	0.49 B	26
					5	1 1 1	0.25 B	23							13	1 1 3	0.57 B	27
					6	1 1 1	0.25 B	23							14	1 1 3	0.41 B	22
					7	1 1 1	0.16 B	23		541.8	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--				15	5 7 8	3.28 B	15
					8	1 1 1	0.33 B	26		538.3	Gray, coarse SAND; saturated				16A	6 10	3.85 B	17
										537.8	Hard, gray SILTY CLAY LOAM to	40			11			

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-28-2019** Complete Drilling **06-28-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10' mud rotary thereafter, boring**
backfilled upon completion

While Drilling **39.00 ft**
 At Completion of Drilling **9 ft Mud**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG BFB-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.34 ft
 North: 1896731.22 ft
 East: 1171690.68 ft
 Station: 6237+45.14
 Offset: 58.81' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
		SILTY LOAM, trace gravel; damp --RDR 2--																
	530.6	--L _L (%)=23, P _L (%)=15-- --%Gravel=11.8-- --%Sand=23.8-- --%Silt=46.6-- --%Clay=17.8--45 --A-4 (2)--		X	17	12 15 26	10.00 B	12			515.6	Hard, gray SILTY CLAY, trace gravel --RDR 2--		X	21	15 13 22	9.68 B	13
		Very dense, gray SILT; saturated --RDR 2--		X	18	27 27 34	NP	21			510.6	Hard, gray SILTY LOAM, trace gravel and cobbles; damp --RDR 3--		X	22	4.50 P		11
		Hard, gray CLAY; moist --RDR 2--		X	19	7 10 9	4.43 B	31				Very stiff to hard, gray CALY to SILTY CLAY, trace gravel and cobbles; damp --RDR 2--		X	23	38 32 37	3.00 P	26
	525.6	Medium dense, gray GRAVELLY SAND; wet --RDR 2--		X	20	9 10 10	NP	13			505.6	--L _L (%)=42, P _L (%)=20-- --%Gravel=1.0-- --%Sand=2.4-- --%Silt=42.4--		X	24	13 15 19	5.66 B	22
	520.6																	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-28-2019** Complete Drilling **06-28-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
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BORING LOG BFB-04

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.34 ft
 North: 1896731.22 ft
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 Station: 6237+45.14
 Offset: 58.81' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Clay=54.2-- --A-7-6 (23)--															
	493.3				25		4.50	20									
		--slow auger advancement from 84.0 to 85.5 feet-- --WEATHERED BEDROCK--	85														
	491.8	Strong, light grayish gray, excellent quality, DOLOSTONE; moderately spaced, fresh, horizontal and vertical joints, with 0-0.2 inch opening, rough walls, and <0.2 inch thick sand infill. Run 1 : 85.5 to 95.5 feet --Recovery=99% --RQD=95% --Q _u =8,670 psi															
			90		26												
			95														
	481.8	Boring terminated at 95.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-28-2019** Complete Drilling **06-28-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **17B57T [91%]**
 Driller **N&A** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **39.00 ft**
 At Completion of Drilling ▼ **9 ft Mud**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG COMM-HUT-CCTV

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 589.57 ft
 North: 1898191.07 ft
 East: 1171393.69 ft
 Station: 5218+68.15
 Offset: 116.7249 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	589.25	5-inch thick dark brown SILTY LOAM --TOPSOIL-- Very stiff to hard, brown CLAY LOAM, trace gravel --FILL--			1	4 12 17	4.50 P	14									
			5		2	5 7 7	3.94 B	14				25		10	1 2 2	0.16 B	24
					3	9 11 10	7.38 B	17						11	1 1 1	0.16 B	26
	581.6	Medium stiff, gray SILTY CLAY, trace gravel			4	3 4 4	0.82 B	19						12	1 2 2	0.16 B	27
	579.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			5	1 2 3	0.49 B	21									
			15		6	1 2 4	0.41 B	22				35		13	1 2 3	0.83 N/6	
					7	2 3 5	0.74 B	25									
					8	1 3 3	0.82 B	19						14	4 6 8	2.00 P	14
										552.8	Very stiff, gray SILTY CLAY LOAM, some gravel						

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-08-2013** Complete Drilling **11-08-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG COMM-HUT-CCTV

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 589.57 ft
 North: 1898191.07 ft
 East: 1171393.69 ft
 Station: 5218+68.15
 Offset: 116.7249 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	547.8	Soft, gray CLAY, trace gravel	45		15	2 6 8	0.25 P	26									
	542.8	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel	50		16	4 5 7	1.23 B	24									
			55		17	9 12 15	4.64 B	14									
	529.6	Boring terminated at 60.00 ft	60		18	7 11 19	5.00 N/6	23									

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-08-2013** Complete Drilling **11-08-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-25 ATV [93%]**
 Driller **P&N** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▽ **DRY**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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APPENDIX A

Boring Logs



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BORING LOG LTB-07

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 597.33 ft
 North: 1896690.25 ft
 East: 1171852.45 ft
 Station: NA
 Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	596.3	10-inch thick, CONCRETE --PAVEMENT--								576.8	Stiff, gray SILTY CLAY LOAM, trace gravel; damp						
	594.3	Medium dense, gray CRUSHED STONE; moist --RDR-2 --FILL--	1	X	1	16 18 7	NP	7		574.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp --RDR 1 to 2--	9	X	9	2 4 4	1.23 B	20
	594.3	Very loose, light gray, lightweight CONCRETE; dry --RDR 1 to 2-- --FILL--	2	X	2	1 1 1	NP	52				10	X	10	1 2 3	0.25 P	23
			3	X	3	1 1 1	NP	56				11	X	11	1 2 3	0.66 B	22
			4	X	4	1 0 1	NP	66				12	X	12	0 0 1	0.41 B	24
			5	X	5	2 1 1	NP	48									
	583.3	Loose, gray CRUSHED GRAVEL --FILL--	6	X	6	3 4 4	NP	11				13	X	13	1 1 1	0.33 B	26
	581.8	Medium stiff, gray SILTY CLAY LOAM, trace gravel --RDR--1	7	X	7	8 6 4	0.50 P	25									
			8	X	8	2 2 2	0.82 B	25				14	X	14	0 2 2	0.36 B	24

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-05-2019** Complete Drilling **07-05-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **F. Bozga** Checked by _____
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **MUD**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-07

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 597.33 ft
 North: 1896690.25 ft
 East: 1171852.45 ft
 Station: NA
 Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
			45		15	0 2 3	0.66 B	25										
			50		16	1 2 2	0.25 P	29										
	545.6	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR 2--	55		17	7 9 9	3.36 B	13										
	537.3		60		18	12 13 18	6.89 B	13										
		Boring terminated at 60.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-05-2019** Complete Drilling **07-05-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **F. Bozga** Checked by
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▽ **MUD**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-08

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.97 ft
 North: 1897093.86 ft
 East: 1171652.78 ft
 Station: NA
 Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	586.3	8-inch, CONCRETE --PAVEMENT--															
	585.6	6-inch, gray CRUSHED STONE --FILL--			1	2 3 5	NP	17						9	0 0 1	0.16 B	26
		Medium stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 1-- --FILL--			2	2 3 5	2.87 B	19				25		10	0 0 0	0.25 B	26
	581.5	Soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--			3	1 2 2	0.57 B	24						11	0 0 2	0.16 B	25
					4	1 2 2	0.41 B	25				30		12	0 0 2	0.41 B	25
					5	0 1 1	0.33 B	25									
					6	0 1 1	0.33 B	26				35		13	1 1 2	0.66 B	25
					7	0 0 1	0.25 B	26		550.0	Medium stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 1--						
					8	0 0 0	0.16 B	27				40		14	3 3 3	0.82 B	15

GENERAL NOTES

Begin Drilling **07-05-2019** Complete Drilling **07-05-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **F. Bozga** Checked by _____
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **MUD**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-08

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.97 ft
 North: 1897093.86 ft
 East: 1171652.78 ft
 Station: NA
 Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	545.3	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR--2																
			45		15	6 17 20	5.40 B	14										
	540.7		Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--															
		50			16	11 30 44	5.99 B	19										
	537.0	Boring terminated at 50.00 ft																
			55															
			60															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-05-2019** Complete Drilling **07-05-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **F. Bozga** Checked by
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▽ **MUD**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG LTB-15

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.00 ft
 North: 1899876.86 ft
 East: 1171632.46 ft
 Station:
 Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.0	3-inch thick, ASPHALT over 9-inch thick, CONCRETE --PAVEMENT--															
	576.0	Medium dense, brown SANDY GRAVEL; damp --FILL-- --RDR 2--	1		1	13 10 5	NP	3						9	0 0 1	0.25 B	26
		Stiff, gray, moist SILTY CLAY, trace gravel --FILL-- --RDR 2--	2		2	2 2 3	1.75 P	19				25		10	0 0 0	0.33 B	27
	572.6	Soft, gray, moist to wet CLAY, trace gravel --RDR 2--	3		3	1 1 2	0.25 B	23						11	0 0 3	0.41 B	26
			4		4	0 0 3	0.41 B	21						12	2 2 2	0.33 B	26
			5		5	0 0 0	0.08 B	27									
			6		6	0 0 0	0.33 B	30						13	2 2 2	0.25 B	26
			7		7	0 0 0	0.25 B	24		542.3	Stiff to very stiff, gray, damp to moist SILTY CLAY, trace gravel --RDR 2--						
			8		8	0 0 0	NR							14	3 4 5	1.64 B	22

GENERAL NOTES

Begin Drilling **07-03-2019** Complete Drilling **07-03-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **E. Yim** Checked by **rkc_draft**
 Drilling Method **3.25" HSA to 10' mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **6' mud**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-15

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.00 ft
 North: 1899876.86 ft
 East: 1171632.46 ft
 Station:
 Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	529.0		45		15	4 7 8	2.13 B	17									
			50		16	6 9 15	3.28 B	20									
		Boring terminated at 50.00 ft															
			55														
			60														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-03-2019** Complete Drilling **07-03-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **E. Yim** Checked by **rkc_draft**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▽ **6' mud**
 Time After Drilling **NA**
 Depth to Water ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG LTB-16

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.20 ft
 North: 1900380.73 ft
 East: 1171621.69 ft
 Station: 6160+78.46
 Offset: 90.88 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.2	4-inch thick, ASPHALT over 8-inch thick, CONCRETE --PAVEMENT--															
	576.2	Medium dense, white and brown, dry to damp SANDY GRAVEL --BASE COURSE-- --RDR 4--		X	1	14 10 12	NP	3					X	9	1 1 1	0.16 B	26
	573.7	Very stiff, gray, damp SILTY CLAY, trace gravel --FILL-- --RDR 2--		X	2	3 4 4	3.36 B	17				25	X	10	1 1 1	0.25 B	27
		Very soft to soft, gray CLAY --RDR 2--		X	3	1 1 2	0.25 B	24					X	11	1 1 1	0.33 B	25
				X	4	1 1 1	0.25 B	21				30	X	12	1 2 3	0.66 B	25
				X	5	1 1 1	0.25 B	24					X	13	1 2 3	0.25 B	28
				X	6	0 1 1	0.16 B	27				35	X	14	4 4 7	NR	
				X	7	1 1 1	0.16	27									
				X	8	1 1 1	0.25 B	28		540.0	Stiff to hard, gray, damp SILTY	40					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-10-2019** Complete Drilling **07-10-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **rkc-draft**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **mud**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG LTB-16

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.20 ft
 North: 1900380.73 ft
 East: 1171621.69 ft
 Station: 6160+78.46
 Offset: 90.88 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		CLAY, trace gravel															
		--RDR 2--															
			45		15	4 5 7	1.23 B	19									
			50		16	4 7 8	2.62 B	21									
			55		17	8 10 15	4.67 B	22									
	524.2	Boring terminated at 55.00 ft															
			60														

GENERAL NOTES

Begin Drilling **07-10-2019** Complete Drilling **07-10-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **rkc-draft**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **mud**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG LTB-17

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.58 ft
 North: 1900922.32 ft
 East: 1171612.30 ft
 Station: 6166+18.92
 Offset: 98.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	581.6	4-inch thick, ASPHALT over 8-inch thick, CONCRETE --PAVEMENT--															
		Loose to medium dense, brown to gray GRAVELLY SAND; damp to saturated --FILL-- --RDR 3 to 4--	1	X	1	14 10 12	NP	3					X	9	1 1 2	0.41 B	24
			2	X	2	4 3 3	NP	11				25	X	10	1 2 2	0.41 B	24
	577.1	Medium stiff, gray CLAY LOAM, some gravel; moist --FILL-- --RDR 2--	3	X	3	1 1 2	0.50 P	16					X	11	1 2 2	0.41 B	25
	574.6	Soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--	4	X	4	1 1 1	0.25 B	28				30	X	12	1 1 1	0.33 B	25
			5	X	5	1 1 1	0.25 B	26		550.8	Medium stiff to very stiff, gray SILTY CLAY to SILTY CALY LOAM, trace gravel; damp --RDR 2--						
			6	X	6	1 1 1	0.25 B	23				35	X	13	3 3 6	1.15 B	23
			7	X	7	1 1 2	0.33 B	21									
			8	X	8	1 2 2	0.33 B	22				40	X	14	3 2 4	0.66 B	18

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-01-2019** Complete Drilling **07-01-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **rkc_draft**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling ∇ **4.00 ft**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG LTB-17

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.58 ft
 North: 1900922.32 ft
 East: 1171612.30 ft
 Station: 6166+18.92
 Offset: 98.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	4 4 6	1.31 B	23									
			50		16	4 5 7	1.64 B	15									
			55		17	4 6 8	2.13 B	20									
	527.6	Boring terminated at 55.00 ft															
			60														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-01-2019** Complete Drilling **07-01-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **rkc_draft**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling ▽ **4.00 ft**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB-22

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.84 ft
 North: 1900177.31 ft
 East: 1171607.02 ft
 Station: 6158+79.03
 Offset: 76.15 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.54	1/2-inch thick, ASPHALT --PAVEMENT--															
		Medium dense, brown to gray CRUSHED STONE --AGGREGATE BASE-- --FILL--			1	9 7 6	NP	2						9	1 1 2	0.33 B	25
	572.8	Loose, brown and gray, damp SANDY GRAVEL --FILL-- --RDR 2 to 3--			2	5 3 3	NP	4				25		10	1 1 1	0.41 B	26
	570.8	Medium stiff to very stiff, gray SILTY CLAY LOAM, little gravel; damp to moist --RDR 2--			3	2 3 4	2.30 B	15				25		11	1 2 3	0.90 B	25
					4	3 4 4	0.98 B	13				30		12	1 2 2	0.49 B	28
	565.3	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--			5	1 1 2	0.41 B	23		544.1	Stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--						
					6	1 1 1	0.25 B	27				35		13	3 4 6	1.31 B	22
					7	1 1 1	0.33 B	26									
					8	1 1 1	NR					40		14	3 4 5	1.64 B	20

GENERAL NOTES

Begin Drilling **07-10-2019** Complete Drilling **07-10-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **rkc_draft**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling ∇ **5.00 ft**
 At Completion of Drilling ∇ **mud**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG NB-22

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.84 ft
 North: 1900177.31 ft
 East: 1171607.02 ft
 Station: 6158+79.03
 Offset: 76.15 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	530.8		45		15	3 4 5	1.56 B	25									
		Boring terminated at 45.00 ft															

GENERAL NOTES

Begin Drilling **07-10-2019** Complete Drilling **07-10-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **rkc_draft**
 Drilling Method **3.25" HSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **5.00 ft**
 At Completion of Drilling ▼ **mud**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.64 ft
 North: 1894322.08 ft
 East: 1171941.86 ft
 Station: 6099+93.09
 Offset: 44.1620 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
		18-inch thick, CONCRETE --PAVEMENT--																
	585.1	Medium dense to dense, black and brown SANDY LOAM to LOAM, trace gravel and brick fragments; moist --FILL--			1	16 15 17 24	NP	20										
					2	4 24 20 25	NP	17										
	580.1		Loose, brown and gray, fine SAND; moist to wet			3	11 10 7 6	NR										
						4	3 5 3 4	NP	19									
					5	2 2 3 2	NP	23										
	575.1	Boring terminated at 11.50 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-04-2014** Complete Drilling **11-04-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.64 ft
 North: 1894621.13 ft
 East: 1171935.83 ft
 Station: 6102+92.17
 Offset: 48.3122 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	585.7	11-inch thick, CONCRETE --PAVEMENT--															
	583.8	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--	6 9 9 12		1		NP	7									
	582.3	Stiff, brown SILTY CLAY LOAM, some gravel --FILL--	12 11 6		2		1.50 P	8									
	580.6	Very stiff, gray SILTY CLAY to CLAY, trace gravel	5														
	580.6	Medium stiff to stiff, gray CLAY to SILTY CLAY, trace gravel	1 2 2 3		3		2.00 P	18									
			2 3 4 5		4		1.64 B	29									
			2 2 2 2		5		0.74 B	31									
	575.6	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG NB90-SGB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.63 ft
 North: 1894874.20 ft
 East: 1171861.55 ft
 Station: 6105+47.62
 Offset: 17.3145 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick, CONCRETE --PAVEMENT--															
	578.2	Dense, gray SANDY GRAVEL, crushed stone --BASE COURSE--			1	22 22 12 7	NP	4									
	575.9	Hard, brown and gray CLAY to CLAY LOAM, trace gravel and bricks fragments --FILL--			2	4 5 5 6	4.50 P	33									
	574.6	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel --L _l (%)=43, P _l (%)=22-- --%Gravel=3.9-- --%Sand=21.4-- --%Silt=43.9-- --%Clay=30.8-- --A-7-6 (15)--			3	1 2 3 3	0.82 B	28									
					4	1 1 1 2	0.25 B	24									
					5	1 1 1 1	0.16 B	27									
	568.1	Boring terminated at 11.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-04-2014** Complete Drilling **11-04-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.79 ft
 North: 1895185.94 ft
 East: 1171897.16 ft
 Station: 6108+57.44
 Offset: 30.6955 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.0	10-inch thick, ASPHALT --PAVEMENT--															
	573.3	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	5 10 10 8	NP	5									
	571.3	Very stiff, gray SILTY CLAY to CLAY, trace gravel --FILL--			2	6 4 5 3	2.21 B	28									
	568.5	Stiff, gray SILTY CLAY LOAM, trace gravel	5		3	0 2 2 2	1.39 B	15									
	564.8	Soft, gray CLAY to SILTY CLAY			4	1 1 2 2	0.49 B	24									
			10		5	0 1 1 2	0.33 B	25									
		Boring terminated at 11.00 ft	15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.87 ft
 North: 1895486.80 ft
 East: 1171817.08 ft
 Station: 6111+62.81
 Offset: 29.9600 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.9	12-inch thick, CONCRETE --PAVEMENT--															
		Loose, gray SANDY GRAVEL to GRAVELLY SAND, crushed stone --BASE COURSE--			1	3 4 4 5	NP	7									
	572.4				2	5 4 2 2	NP	4									
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 2 2 3	0.82 B	32									
					4	1 1 1 2	0.57 B	25									
			10		5	1 1 1 2	< 0.25 P	22									
	565.9	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-21-2014** Complete Drilling **10-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-06

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.80 ft
 North: 1895758.79 ft
 East: 1171835.43 ft
 Station: 6114+32.43
 Offset: 11.9494 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.0	10-inch thick, ASPHALT --PAVEMENT--															
	573.3	Loose, gray, coarse SAND, crushed stone --BASE COURSE--			1	5 3 3 4	NP	7									
	571.8	Stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			2	4 4 3 2	1.00 P	19									
		Soft to stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 3 3 4	1.64 B	23									
					4	1 2 2 2	0.57 B	25									
			10		5	1 1 2 2	0.49 B	26									
	564.8	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG NB90-SGB-07

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.02 ft
 North: 1896103.49 ft
 East: 1171779.17 ft
 Station: 6117+80.85
 Offset: 12.2418 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick, CONCRETE --PAVEMENT--															
	574.7	Medium dense, gray SANDY GRAVEL, crushed stone --BASE COURSE--			1	9 12 12 11	NP	5									
	573.0	Very stiff, gray SILTY CLAY, trace gravel --L _L (%)=32, P _L (%)=16-- --%Gravel=1.5-- --%Sand=15.4-- --%Silt=50.9-- --%Clay=32.2-- --A-6 (12)--			2	6 5 5 6	2.71 B	19									
	570.0	Soft, gray CLAY to SILTY CLAY			3	2 3 3 3	0.41 B	26									
					4	2 2 2 1	0.49 B	26									
					5	2 1 1 1	0.41 B	25									
	564.5	Boring terminated at 11.50 ft															

GENERAL NOTES

Begin Drilling **10-21-2014** Complete Drilling **10-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-08

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.25 ft
 North: 1896388.31 ft
 East: 1171797.85 ft
 Station: 6120+64.82
 Offset: 23.2390 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick, CONCRETE --PAVEMENT--															
	576.2	Medium dense to very dense, gray SANDY GRAVEL, crushed stone --BASE COURSE-- --FILL--			1	30 29 26 26	NP	3									
					2	17 16 10 8	NP	4									
	572.7	Stiff, gray SILTY CLAY to CLAY, trace gravel	5														
					3	3 3 3 4	1.23 B	23									
	570.2	Medium stiff, gray CLAY to SILTY CLAY, trace gravel			4	2 2 3 3	0.82 B	20									
					5	2 2 2 3	0.74 B	24									
	566.2	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-09

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.20 ft
 North: 1896680.68 ft
 East: 1171759.57 ft
 Station: 6123+57.41
 Offset: 16.1632 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick, CONCRETE --PAVEMENT--															
	576.9																
		Dense, gray SANDY GRAVEL, crushed stone --BASE COURSE--			1	22 17 16 6	NP	4									
	574.9																
		Hard, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	3 5 7 7	6.56 B	11									
	572.2																
		Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2 3 3 4	0.66 B	22									
					4	2 2 2 4	0.74 B	21									
					5	1 2 2 2	< 0.25 P	25									
	566.7																
		Boring terminated at 11.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-21-2014** Complete Drilling **10-21-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG NB90-SGB-10

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.51 ft
 North: 1896984.82 ft
 East: 1171800.48 ft
 Station: 6126+61.54
 Offset: 23.2181 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.6	11-inch thick, ASPHALT --PAVEMENT--															
	579.0	Loose, gray GRAVELLY SAND, crushed stone --BASE COURSE--			1	6 5 4 5	NP	7									
	577.3	Stiff, gray SILTY CLAY to CLAY, trace gravel			2	2 3 3	1.50 P	24									
		Medium stiff, gray CLAY to SILTY CLAY, trace gravel --L _L (%)=43, P _L (%)=20-- --%Gravel=1.4-- --%Sand=8.1-- --%Silt=45.6-- --%Clay=44.8-- --A-7-6 (22)--			3	2 3 3 3	0.66 B	31									
					4	1 1 2 2	0.82 B	24									
					5	1 1 2 3	0.74 B	23									
	570.5	Boring terminated at 11.00 ft															

GENERAL NOTES

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG NB90-SGB-11

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 582.22 ft
 North: 1897324.03 ft
 East: 1171761.68 ft
 Station: 6130+01.25
 Offset: 1.6385 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		10-inch thick, CONCRETE --PAVEMENT--															
	581.4	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	8 12 14 11	NP	4									
	578.2	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	9 10 4 4	NR										
			5		3	3 3 3 3	0.25 P	21									
					4	3 3 3 3	0.98 B	25									
					5	2 2 3 3	0.66 B	25									
	571.2	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-23-2014** Complete Drilling **10-23-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG NB90-SGB-12

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.91 ft
 North: 1897759.67 ft
 East: 1171660.96 ft
 Station: 6134+48.65
 Offset: 30.3217 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.1	10-inch thick, CONCRETE --PAVEMENT--															
		Loose to medium dense, gray GRAVELLY SAND, crushed stone; moist to wet --AGGREGATE BASE--			1	9 8 8 6	NP	6									
					2	3 2 2 2	NP	8									
	572.4	Soft, gray CLAY to SILTY CLAY, trace gravel			3	1 1 1 2	0.25 B	24									
					4	1 2 2 2	0.33 B	22									
					5	1 1 2 2	0.41 B	26									
	565.9	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-29-2014** Complete Drilling **10-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ▽ **4.50 ft**
 At Completion of Drilling ▼ **9.00 ft**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-13

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.00 ft
 North: 1898198.51 ft
 East: 1171595.71 ft
 Station: 6138+91.76
 Offset: 8.1585 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	573.7	4-inch thick, ASPHALT --PAVEMENT--															
	572.9	9-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, brown SANDY GRAVEL --AGGREGATE BASE--	8		1	10	NP	8									
	571.3	Stiff, gray SILTY CLAY, trace gravel --L _L (%)=35, P _L (%)=18-- --%Gravel=2.9-- --%Sand=14.2-- --%Silt=50.2-- --%Clay=32.7-- --A-6 (13)--	2		2	4	1.64	19									
	569.3	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	1		3	1	0.57	25									
			2			2	B										
			2		4	2	0.57	24									
			2			2	B										
			10		5	2	0.66	24									
			2			3	B										
	563.0	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-04-2014** Complete Drilling **11-04-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG NB90-SGB-14

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.69 ft
 North: 1898653.18 ft
 East: 1171543.59 ft
 Station: 6143+49.96
 Offset: 19.7769 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.4	4-inch thick, ASPHALT --PAVEMENT--															
	576.6	9-inch thick, CONCRETE --PAVEMENT--															
	575.7	Gray, SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 7 3 3	NP	18									
	574.2	Stiff (1.75P), brown and gray SILTY CLAY, trace gravel			2	1 1 1 2	0.33 B	24									
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 2 3	0.57 B	24									
					4	1 1 2 3	0.74 B	24									
					5	1 2 3 3	0.90 B	23									
	566.7	Boring terminated at 11.00 ft															

GENERAL NOTES

Begin Drilling **10-29-2014** Complete Drilling **10-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-15

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.98 ft
 North: 1899229.54 ft
 East: 1171550.29 ft
 Station: 6149+29.58
 Offset: 33.8831 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.6	5-inch thick, ASPHALT --PAVEMENT--															
	575.8	9-inch thick, CONCRETE --PAVEMENT--															
	574.2	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	7 7 5 4	NP	7									
	572.5	Stiff, gray SILTY CLAY, trace gravel			2	3 3 3 3	1.15 B	19									
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	1 1 2 1	0.33 B	25									
					4	0 1 2 2	0.41 B	25									
			10		5	0 1 2 2	0.66 B	25									
	566.0	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-29-2014** Complete Drilling **10-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.58 ft
 North: 1899545.99 ft
 East: 1171539.94 ft
 Station: 6152+45.77
 Offset: 17.3660 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.2	4-inch thick, ASPHALT --PAVEMENT--															
	578.5	9-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 12 11 7	NP	4									
	576.8	Loose to medium dense, brown and gray SANDY GRAVEL, bricks fragments --FILL--			2	5 12 6 5	NP	9									
					3	3 2 3 3	NP	8									
	572.6	--AUGER REFUSAL at 7'-- Boring terminated at 7.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-29-2014** Complete Drilling **10-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG NB90-SGB-16B

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.63 ft
 North: 1899546.60 ft
 East: 1171550.54 ft
 Station:
 Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.2	5-inch thick, ASPHALT --PAVEMENT--															
	578.6	7-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, brown and gray SANDY GRAVEL, crushed stone and brick fragments --FILL--			1	10 11 10 11	NP	18									
	576.1	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel --L _L (%)=35, P _L (%)=17-- --%Gravel=4.9-- --%Sand=17.8-- --%Silt=47.1-- --%Clay=30.2-- --A-6 (12)--			2	7 8 3 4	1.31 B	20									
					3	1 1 2 3	0.57 B	24									
					4	1 1 2 3	0.41 B	25									
					5	1 1 2 2	0.49 B	25									
	568.6	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-04-2014** Complete Drilling **11-04-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-17

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.12 ft
 North: 1899900.37 ft
 East: 1171582.31 ft
 Station: 8345+63.62
 Offset: 17.0731 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.7	5-inch thick, ASPHALT --PAVEMENT--															
	577.0	9-inch thick, CONCRETE --PAVEMENT--															
	575.6	Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 13 15	NP	5									
		Soft to stiff, brown and gray to gray CLAY to SILTY CLAY, trace gravel			2	4 3 4 5	0.50 P	18									
					3	3 3 3 4	0.82 B	20									
					4	1 2 2 3	0.49 B	24									
					5	1 1 2 2	0.41 B	26									
	567.1	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-20-2014** Complete Drilling **10-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-18

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.22 ft
 North: 1900148.30 ft
 East: 1171513.18 ft
 Station: 6158+47.44
 Offset: 21.1308 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.12	12-inch thick, ASPHALT --PAVEMENT--															
	575.39	3-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, brown SANDY GRAVEL, crushed stone; damp to wet			1	14 15 12	NP	11									
	573.7	--AGGREGATE BASE--				8											
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel			2	4 6 2 2	0.25 P	25									
					3	0 2 1 2	0.25 B	25									
					4	1 1 1 2	0.16 B	26									
					5	1 2 1 1	0.25 B	27									
	565.2	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-29-2014** Complete Drilling **10-29-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **2.50 ft**
 At Completion of Drilling \blacktriangledown **2.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-19

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.10 ft
 North: 1900404.89 ft
 East: 1171566.03 ft
 Station: 6161+03.37
 Offset: 35.6068 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.8	4-inch thick, ASPHALT --PAVEMENT--															
	577.0	9-inch thick, CONCRETE --PAVEMENT--															
	575.6	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	11 11 9 4	NP	4									
	573.9	Hard, brown SILTY CLAY LOAM, trace gravel --FILL--			2	8 8 4 4	4.50 P	14									
		Soft to stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 3 3 4	1.80 B	21									
					4	1 2 1 2	0.41 B	32									
			10		5	1 1 1 2	0.66 B	26									
	567.1	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-20-2014** Complete Drilling **10-20-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-20

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.70 ft
 North: 1900691.85 ft
 East: 1171504.90 ft
 Station: 6163+92.15
 Offset: 16.2431 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.53	1/2-inch thick, ASPHALT --PAVEMENT--															
	577.88	8-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	10 14 9 6	NP	5									
	576.0	Stiff to very stiff, brown and gray SILTY CLAY, trace gravel --FILL--			2	5 14 8 5	2.38 B	18									
					3	1 2 3 4	1.50 P	16									
	572.2	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			4	1 2 2 3	1.07 B	19									
					5	2 2 3 3	1.23 B	17									
	567.7	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-04-2014** Complete Drilling **11-04-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-21

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.00 ft
 North: 1901084.41 ft
 East: 1171543.57 ft
 Station: 6167+83.26
 Offset: 35.0586 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	577.6	5-inch thick, ASPHALT --PAVEMENT--																
	576.9	8-inch thick, CONCRETE --PAVEMENT--																
		Dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	17 18 17 14	NP	5										
	574.2	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel --L _L (%)=34, P _L (%)=17-- --%Gravel=3.1-- --%Sand=18.4-- --%Silt=48.3-- --%Clay=30.2-- --A-6 (12)--			2	7 6 3 2	1.39 B	18										
					3	1 1 1 1	0.49 B	25										
					4	0 0 2 3	0.49 B	22										
	569.0	Gray, coarse SAND; saturated																
	568.2	Very soft (<0.25P), gray CLAY to SILTY CLAY, trace gravel			5	2 2 1 2	NP	16										
	567.0	Boring terminated at 11.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-28-2014** Complete Drilling **10-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **9.00 ft**
 At Completion of Drilling \blacktriangledown **9.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG NB90-SGB-22

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.34 ft
 North: 1901336.31 ft
 East: 1171480.85 ft
 Station: 6170+37.05
 Offset: 19.5103 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.0	3.5-inch thick, ASPHALT --PAVEMENT--															
	577.47	7.5-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	11 11 11	NP	7									
	575.6	Very stiff, brown and gray SILTY CLAY, trace gravel --FILL--			2	2 4 5	2.46 B	18									
	573.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 1 2	0.41 B	24									
					4	1 2 3 3	0.82 B	23									
					5	1 3 3 3	0.82 B	22									
	567.3	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-04-2014** Complete Drilling **11-04-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG NB90-SGB-23

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.47 ft
 North: 1901583.99 ft
 East: 1171502.70 ft
 Station: 6172+79.72
 Offset: 31.3803 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.0	5-inch thick, ASPHALT --PAVEMENT--															
	576.4	8-inch thick, CONCRETE --PAVEMENT--															
	574.7	Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	11 15 7 6	NP	3									
	573.2	Medium stiff, brown SILTY CLAY LOAM, trace gravel --FILL-- --L _L (%)=32, P _L (%)=17-- --%Gravel=5.7-- --%Sand=22.9-- --%Silt=49.0-- --%Clay=22.5-- --A-6 (9)--			2	3 2 3 2	0.50 P	22									
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 1 2	0.41 B	24									
					4	1 2 2 2	0.57 B	21									
					5	1 2 2 3	0.66 B	24									
	566.5	Boring terminated at 11.00 ft															

GENERAL NOTES

Begin Drilling **10-28-2014** Complete Drilling **10-28-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB-06

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 16, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.69 ft
 North: 1901732.89 ft
 East: 1171316.27 ft
 Station: 51+64.46
 Offset: 32.59 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	572.9	6-inch thick, ASPHALT over 15-inch thick, CONCRETE --PAVEMENT--															
	571.3	Loose, brown, wet SANDY GRAVEL --BASE COURSE-- --RDR 2 to 4--		X	1	9 5 4	NP	10					X	9	1 1 2	0.25 B	26
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to wet --RDR 2--		X	2	2 2 2	0.66 B	23					X	10	1 1 2	0.33 B	25
				X	3	2 1 2	NR	18					X	11	1 2 2	0.41 B	23
				X	4	1 1 2	0.49 B	23		546.7	Stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--		X	12	3 3 6	1.48 B	19
				X	5	1 1 2	0.41 B	24					X	13	3 4 5	1.23 B	22
				X	6	0 1 1	0.25 B	26					X	14	2 5 5	1.56 B	19
				X	7	0 1 1	0.33 B	28									
				X	8	1 1 1	0.25 B	22		534.7			X				

Boring terminated at 40.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **08-15-2019** Complete Drilling **08-15-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **N&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **groundwater not observed**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB90-SGB-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.26 ft
 North: 1900440.64 ft
 East: 1171395.88 ft
 Station: 6200+07.15
 Offset: 30.2937 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.7	6.5-inch thick, ASPHALT --PAVEMENT--															
	578.0	9-inch thick, CONCRETE --PAVEMENT--															
	576.3	Dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	11 28 8 5	NP	4									
	574.3	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel, brick fragments --FILL--			2	6 5 6 5	2.71 B	17									
		Soft, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2 2	0.33 B	27									
					4	1 1 1 2	0.25 B	27									
					5	0 1 1 1	0.25 B	26									
	567.8	Boring terminated at 11.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-19-2014** Complete Drilling **10-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-02

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.86 ft
 North: 1900173.04 ft
 East: 1171405.65 ft
 Station: 1301+55.54
 Offset: 14.7720 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	577.5	4-inch thick, ASPHALT --PAVEMENT--																
	576.9	8-inch thick, CONCRETE --PAVEMENT--																
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	16 16 12 8	NP	4										
	575.1	Very stiff, brown SILTY CLAY LOAM, trace gravel --FILL-- --L _L (%)=29, P _L (%)=15-- --%Gravel=3.5-- --%Sand=19.7-- --%Silt=52.7-- --%Clay=24.1-- --A-6 (9)--			2	6 7 4 4	2.50 P	16										
	573.6	Soft, gray CLAY to SILTY CLAY, trace gravel			3	0 0 1 2	0.49 B	23										
					4	0 1 1 2	0.49 B	24										
					5	1 1 1 1	0.33 B	24										
	566.9	Boring terminated at 11.00 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-19-2014** Complete Drilling **10-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-03

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.81 ft
 North: 1899934.68 ft
 East: 1171413.13 ft
 Station: 6205+13.40
 Offset: 29.2851 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	578.3	6-inch thick, ASPHALT --PAVEMENT--															
	577.6	9-inch thick, CONCRETE --PAVEMENT--															
	576.1	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	16 11 8 7	NP	3									
		Medium dense, brown SANDY GRAVEL, brick fragments --FILL--															
	573.8	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	4 6 7 4	NP	15									
					3	1 1 2 3	0.49 B	20									
					4	1 2 2 3	0.74 B	21									
					5	1 2 2 4	0.74 B	22									
	567.3	Boring terminated at 11.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-19-2014** Complete Drilling **10-19-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling ▽ **4.00 ft**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.50 ft
 North: 1899684.72 ft
 East: 1171474.56 ft
 Station: 6207+64.38
 Offset: 25.9502 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.23	inch thick, ASPHALT --PAVEMENT--															
	579.59	inch thick, CONCRETE --PAVEMENT--															
		Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 13 16 15	NP	6									
	576.5	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	9 8 3 4	NR										
					3	1 1 2 2	0.33 B	26									
					4	1 1 2 2	0.49 B	20									
					5	1 1 2 2	0.66 B	23									
	569.5	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-05

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.83 ft
 North: 1899426.56 ft
 East: 1171431.05 ft
 Station: 6210+22.85
 Offset: 13.1751 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.4	5-inch thick, ASPHALT --PAVEMENT--															
	578.7	9-inch thick, CONCRETE --PAVEMENT--															
		Medium dense to dense, gray SANDY GRAVEL, crushed stone; moist to wet --AGGREGATE BASE--			1	20 20 18 13	NP	5									
					2	8 12 13 10	NP	4									
	574.6	Very stiff, gray SILTY CLAY, trace gravel --wet spoon--			3	7 7 7 6	2.00 P	21									
	573.3	Very soft, gray CLAY to SILTY CLAY			4	0 2 1 2	0.16 B	26									
					5	0 1 1 1	NR										
					6	0 0 0 0	0.16 B	25									
	566.6	Boring terminated at 13.20 ft															

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-27-2014** Complete Drilling **10-27-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **5.00 ft**
 At Completion of Drilling \blacktriangledown **5.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-06

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.24 ft
 North: 1899084.75 ft
 East: 1171496.25 ft
 Station: 6147+83.76
 Offset: 17.3240 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	575.7	6-inch thick, ASPHALT --PAVEMENT--																
	575.0	9-inch thick, CONCRETE --PAVEMENT--																
	573.0	Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 9 7 7	NP	3										
	571.2	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --L _L (%)=32, P _L (%)=17-- --%Gravel=2.5-- --%Sand=16.6-- --%Silt=51.2-- --%Clay=29.8-- --A-6 (11)--			2	4 4 3 3	1.39 B	18										
		Medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 1 2 2	0.66 B	23										
					4	1 1 2 2	0.74 B	21										
					5	1 2 2 3	0.82 B	22										
	564.7	Boring terminated at 11.50 ft																

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-07

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.81 ft
 North: 1898785.77 ft
 East: 1171466.21 ft
 Station: 6216+64.92
 Offset: 28.7803 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	577.3	6-inch thick, ASPHALT --PAVEMENT--															
	576.7	7-inch thick, CONCRETE --BASE COURSE--															
		Medium dense to dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--	17		1	17	NP	6									
			18														
			17														
			17														
			13														
			10		2	10	NP	8									
	573.6	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	7														
			4														
			5														
			2		3	2	0.98	21									
			2														
			3				B										
			3														
			1		4	1	0.49	24									
			2														
			2				B										
			2														
			2		5	2	0.49	23									
			10														
			2														
			2														
			3				B										
			3														
	566.8	Boring terminated at 11.00 ft															

GENERAL NOTES

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-08

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.36 ft
 North: 1898496.00 ft
 East: 1171483.87 ft
 Station: 6219+57.67
 Offset: 15.3260 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	576.9	5-inch thick, ASPHALT --PAVEMENT--															
	576.6	4-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	13 11 12 8	NP	6									
	574.6	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel			2	5 3 3 3	1.39 B	21									
					3	1 2 2 3	0.33 B	24									
					4	0 2 2 2	0.49 B	25									
					5	0 2 2 2	0.49 B	24									
	566.4	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-09

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 573.30 ft
 North: 1898182.37 ft
 East: 1171517.67 ft
 Station: 6222+72.65
 Offset: 2.7027 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	572.6	9-inch thick, ASPHALT --PAVEMENT--															
	571.8	Loose, brown SANDY GRAVEL, crushed stone --BASE COURSE--				6											
	570.8	Very stiff, gray SILTY CLAY LOAM, trace gravel --FILL--			1	3	2.50	13									
		Medium stiff to stiff, gray CLAY to SILTY CLAY, trace gravel			2	3	1.64	21									
					3	3											
					4	3											
					5	3											
					3	1	0.57	24									
					4	1											
					4	1	0.57	25									
					2	2											
					2	2											
					5	1	0.66	20									
					5	1											
					5	2											
					5	3											
	562.3	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG SB90-SGB-10

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.78 ft
 North: 1897682.18 ft
 East: 1171563.37 ft
 Station: 6227+73.36
 Offset: 27.6237 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick, CONCRETE --PAVEMENT--															
	575.6	Medium dense, gray SANDY GRAVEL, crushed stone			1	8											
	574.6	--AGGREGATE BASE--				5	2.75	13									
	574.0	Very stiff, brown and gray CLAY LOAM, trace gravel, brick fragments				5											
		--FILL--															
		Stiff, gray SILTY CLAY LOAM, trace gravel			2	2											
		--L _L (%)=31, P _L (%)=17--				3	1.15	20									
		--%Gravel=1.5--				3											
	572.0	--%Sand=13.1--				3											
		--%Silt=59.6--															
		--%Clay=25.8--															
		--A-6 (11)--															
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1	0.74	24									
						2											
						2											
						2											
					4	1	0.57	26									
						1											
						1											
						2											
						2											
					5	1	0.49	23									
						1											
						1											
						1											
						2											
	565.8	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-11

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 579.80 ft
 North: 1897357.42 ft
 East: 1171560.92 ft
 Station: 6231+00.47
 Offset: 29.9949 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--															
	578.7	Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	10 8 5 4	NP	5									
	577.0	Soft, gray CLAY to SILTY CLAY, trace gravel			2	2 2 2 2	0.25 P	25									
					3	1 1 2 2	0.41 B	28									
					4	1 1 1 1	0.25 B	27									
					5	1 1 1 2	0.41 B	24									
	568.8	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-12

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.56 ft
 North: 1896939.61 ft
 East: 1171610.99 ft
 Station: 6235+25.90
 Offset: 21.4718 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--															
	580.5	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	8 10 14 14	NP	5									
	578.8	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	3 4 5 5	3.03 B	14									
	576.8	Medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	1 2 2 3	0.90 B	20									
					4	2 2 2 2	0.98 B	24									
					5	1 2 3 2	0.74 B	23									
	570.6	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-13

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 577.81 ft
 North: 1896596.82 ft
 East: 1171656.56 ft
 Station: 6238+70.90
 Offset: 2.3791 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--															
	576.7	Brown SANDY GRAVEL, crushed stone				10											
	575.8	--AGGREGATE BASE--			1	10	3.75	24									
	575.1	Very stiff, brown SILTY CLAY LOAM, trace gravel				5	P										
		--FILL--				4											
		Soft to stiff, gray CLAY to SILTY CLAY, trace gravel			2	2											
					2	3	1.23	20									
					2	4	B										
					2	4											
					3	1	0.66	20									
						2	B										
						2											
						2											
					4	0	0.33	23									
						0	B										
						2											
						2											
					5	1	0.41	23									
						1	B										
						1											
						2											
						2											
	566.8	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-14

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.72 ft
 North: 1896346.54 ft
 East: 1171688.76 ft
 Station: 6241+23.12
 Offset: 2.8608 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.7	12-inch thick, CONCRETE --PAVEMENT--															
	574.2	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 9 8 7	NP	5									
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	3 3 2 2	0.98 B	19									
					3	1 1 2 1	0.49 B	21									
					4	1 1 1 2	0.49 B	23									
					5	1 1 2 2	0.33 B	25									
	565.7	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-15

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.71 ft
 North: 1896064.24 ft
 East: 1171726.24 ft
 Station: 6244+07.68
 Offset: 13.7774 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--															
	574.6	Gray SANDY GRAVEL, crushed stone				5											
	573.7	--AGGREGATE BASE--			1	7	NP	19									
		Stiff, brown and gray to gray SILTY CLAY LOAM to CLAY, trace gravel				3											
		--L _L (%)=30, P _L (%)=16-- --%Gravel=2.4-- --%Sand=19.9-- --%Silt=48.9-- --%Clay=28.7-- --A-6 (9)--			2	3	1.15	21									
						3											
						5	P										
						4											
						1											
						2											
						3	1.07	23									
						3	B										
	569.0	Soft, gray CLAY to SILTY CLAY, trace gravel				3											
						1											
						1											
						1	0.25	26									
						2	B										
						1											
						2											
						10											
						5	0.25	27									
						1	B										
						2											
						1											
						2											
	564.7	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.27 ft
 North: 1895745.05 ft
 East: 1171704.78 ft
 Station: 6247+23.47
 Offset: 37.4192 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.4	11-inch thick, CONCRETE --PAVEMENT--															
	573.3	Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 7 4 4	2.50 P	14									
	571.0	Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	4 4 3 3	1.31 B	14									
		Very soft to soft, gray CLAY to SILTY CLAY, trace gravel	5		3	1 2 2 2	0.49 B	18									
					4	1 1 2 2	0.25 B	28									
			10		5	1 1 2 2	< 0.25 P	21									
	564.3	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG SB90-SGB-17

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.98 ft
 North: 1895455.29 ft
 East: 1171792.96 ft
 Station: 6250+20.20
 Offset: 23.2948 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--															
	575.9	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	7 10 7 7	NP	24									
	574.9	Hard (>4.5p), brown SILTY CLAY LOAM, trace gravel --FILL--															
	573.0	Soft to medium stiff, brown CLAY to SILTY CLAY LOAM, trace gravel; damp to moist			2	4 4 3 3	NR										
					3	1 1 2 2	0.74 B	17									
					4	1 1 1 2	0.25 P	17									
					5	0 1 1 1 2	0.25 B	23									
	566.0	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-18

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 576.00 ft
 North: 1895146.02 ft
 East: 1171820.07 ft
 Station: 6253+30.52
 Offset: 21.5773 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--															
	574.9	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 11 7 5	NP	5									
	573.2	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--			2	1 2 3	3.00 P	13									
	571.7	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel --L _L (%)=53, P _L (%)=23-- --%Gravel=0.4-- --%Sand=2.2-- --%Silt=40.3-- --%Clay=57.1-- --A-7-6 (33)--	5		3	1 1 2 2	0.16 B	46									
					4	1 1 1 2	0.25 B	20									
			10		5	1 1 2 2	0.33 B	23									
	565.0	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG SB90-SGB-19

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 580.13 ft
 North: 1894841.55 ft
 East: 1171785.19 ft
 Station: 6256+31.77
 Offset: 35.7828 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.1	12-inch thick, CONCRETE --PAVEMENT--															
		Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--	12 10 7 6		1		NP	4									
	575.9	Soft, gray CLAY to SILTY CLAY, trace gravel	6 5 6 4		2		NP	5									
			2 2 2 3		3		0.25 P	28									
			1 2 2 2		4		0.41 B	15									
			1 2 2 2		5		0.33 B	15									
	569.1	Boring terminated at 11.00 ft															

GENERAL NOTES

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG SB90-SGB-20

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 589.69 ft
 North: 1894526.40 ft
 East: 1171856.71 ft
 Station: 6102+00.18
 Offset: 33.9850 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--															
	588.6	Dense, brown SANDY GRAVEL --AGGREGATE BASE--			1	11 20	NP	4									
	587.2	Medium dense, brown SILTY LOAM --FILL-- --%Gravel=0.2-- --%Sand=45.6-- --%Silt=50.3-- --%Clay=3.9-- --A-4 (0)--			2	9 9 10 10	NP	13									
	583.7	Medium stiff to very stiff, gray SILTY CLAY LOAM to CLAY, trace gravel			3	3 4 4 5	2.46 B	25									
					4	2 3 5 4	1.31 B	14									
					5	2 3 3 3	0.57 B	13									
	578.6	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-30-2014** Complete Drilling **10-30-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-21

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.97 ft
 North: 1898288.91 ft
 East: 1171224.08 ft
 Station: 1320+76.26
 Offset: 4.4481 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	574.6	4.5-inch thick, ASPHALT --PAVEMENT--															
	574.0	7.5-inch thick, CONCRETE --PAVEMENT--															
		Loose, brown SANDY GRAVEL, crushed stone -- AGGREGATE BASE--			1	7 3 3 4		7									
	572.0	Very stiff, brown SILTY CLAY, trace gravel --FILL--			2	6 6 5 5	3.50 P	18									
	570.7	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	5		3	2 2 3 3	0.95 B	25									
					4	1 2 3 3	0.90 B	24									
			10		5	2 2 3 4	0.90 B	25									
	564.0	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-15-2014** Complete Drilling **10-15-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-22

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 574.14 ft
 North: 1898126.08 ft
 East: 1170995.81 ft
 Station: 1323+61.53
 Offset: 3.2919 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	573.7	5-inch thick, ASPHALT --PAVEMENT--															
	573.17	7-inch thick, CONCRETE --PAVEMENT--															
	572.67	7-inch thick, gray CRUSHED STONE --AGGREGATE BASE--			1	4	1.50	19									
		Stiff, brown and gray SILTY CLAY, trace gravel				2											
	570.6	--FILL-- --L _L (%)=33, P _L (%)=18-- --%Gravel=3.1-- --%Sand=14.0-- --%Silt=51.9-- --%Clay=31.0-- --A-6 (11)--			2	3	1.15	21									
	569.1	Stiff, gray SILTY CLAY, trace gravel				4											
		Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			3	2	0.83	N/6									
						3											
						3											
					4	2	0.25	24									
						2											
						2											
						3											
						4											
					5	3	0.82	20									
						4											
	563.1	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-15-2014** Complete Drilling **10-15-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&J** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" IDA HSA, boring backfilled upon completion**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-23

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 575.83 ft
 North: 1897869.25 ft
 East: 1170735.41 ft
 Station: 1503+71.26
 Offset: 6.1938 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.4	5-inch thick, ASPHALT --PAVEMENT--															
	574.8	7-inch thick, CONCRETE --PAVEMENT--															
	574.1	Medium dense, brown SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	9 8 3 3	2.00 P	18									
	573.2	Very stiff, brown SILTY CLAY LOAM, trace gravel and brick fragments --FILL--			2	2 3 3 5	1.72 B	20									
					3	1 2 2 3	0.57 B	25									
					4	1 2 2 2	0.49 B	25									
					5	1 1 2 2	0.41 B	25									
	564.8	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG SB90-SGB-24

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 578.24 ft
 North: 1897470.25 ft
 East: 1171446.01 ft
 Station: 1512+28.05
 Offset: 14.8803 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick, CONCRETE --PAVEMENT--															
	577.0	Medium dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	13 14 13 6	NP	5									
	574.5	Soft to medium stiff, gray CLAY to SILTY CLAY LOAM, trace gravel --L ₁ (%)=28, P ₁ (%)=16-- --%Gravel=2.8-- --%Sand=13.3-- --%Silt=64.3-- --%Clay=19.6-- --A-6 (8)--			2	2 2 2 3	0.74 B	23									
					3	1 1 2 2	0.66 B	19									
					4	1 1 2 2	0.41 B	20									
					5	0 1 2 2	0.25 B	24									
	566.7	Boring terminated at 11.50 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SB90-SGB-25

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 581.55 ft
 North: 1897164.83 ft
 East: 1171487.22 ft
 Station: 1515+33.53
 Offset: 22.3627 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick, CONCRETE --PAVEMENT--															
	580.5	Dense, gray SANDY GRAVEL, crushed stone --AGGREGATE BASE--			1	17 18 13 13	NP	7									
	578.8	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			2	2 2 2 2	0.98 B	25									
					3	1 2 2 3	0.57 B	30									
					4	0 2 1 2	0.33 B	28									
					5	1 1 2 2	< 0.25 P	25									
	570.5	Boring terminated at 11.00 ft															

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **10-26-2014** Complete Drilling **10-26-2014**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [100%]**
 Driller **P&P** Logger **F. Bozga** Checked by **RKC**
 Drilling Method **2.25" SSA, boring backfilled upon completion**

While Drilling ▽ **DRY**
 At Completion of Drilling ▼ **DRY**
 Time After Drilling **NA**
 Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG VST-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.26 ft
 North: 1899543.57 ft
 East: 1171652.91 ft
 Station: 8415+02.96
 Offset: 258.109 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.8	Medium stiff, black and gray SILTY CLAY, trace gravel --FILL--	5		1	6 4 3	0.90 B	28			--In-Situ Vane Shear, 20.5 feet-- --S _{u undis} = 884.6 psf-- --S _{u remold} = 655.2 psf-- --Sensitivity = 1.4--	5		5			
	576.8	Very soft, gray SILTY CLAY, trace gravel	10		2	1 2 1	0.20 B	25			--In-Situ Vane Shear, 23.0 feet-- --S _{u undis} = 939.2 psf-- --S _{u remold} = 655.2 psf-- --Sensitivity = 1.4--	6		6			
			15		1						--In-Situ Vane Shear, 25.5 feet-- --S _{u undis} = 786.3 psf-- --S _{u remold} = 611.6 psf-- --Sensitivity = 1.3--	7		7			
			20		2						--In-Situ Vane Shear, 28.0 feet-- --S _{u undis} = 644.3 psf-- --S _{u remold} = 382.2 psf-- --Sensitivity = 1.7--	8		8			
			25		3						--In-Situ Vane Shear, 30.5 feet-- --S _{u undis} = 720.8 psf-- --S _{u remold} = 458.7 psf-- --Sensitivity = 1.6--	9		9			
			30		4						--In-Situ Vane Shear, 33.0 feet-- --S _{u undis} = 851.8 psf-- --S _{u remold} = 567.9 psf-- --Sensitivity = 1.5--	10		10			
			35		1						--In-Situ Vane Shear, 35.5 feet-- --S _{u undis} = 895.5 psf-- --S _{u remold} = 666.2 psf-- --Sensitivity = 1.3--	11		11			
			40		2						--In-Situ Vane Shear, 38.0 feet-- --S _{u undis} = 993.8 psf-- --S _{u remold} = 720.8 psf-- --Sensitivity = 1.4--	12		12			

GENERAL NOTES

Begin Drilling **12-04-2015** Complete Drilling **12-05-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **I. Muhammad** Checked by **A. Kurnia**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG VST-02

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.26 ft
 North: 1899543.57 ft
 East: 1171652.91 ft
 Station: 8415+02.96
 Offset: 258.109 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--In-Situ Vane Shear, 40.5 feet-- -- $S_{u\text{undis}}$ = 1277.7 psf-- -- $S_{u\text{remold}}$ = 808.1 psf-- --Sensitivity = 1.6--			13	VS											
	541.8	--In-Situ Vane Shear, 43.0 feet-- -- $S_{u\text{undis}}$ > 1750 psf-- Boring terminated at 43.50 ft			14	VS											
			45														
			50														
			55														
			60														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-04-2015** Complete Drilling **12-05-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **I. Muhammad** Checked by **A. Kurnia**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG VST-06

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.69 ft
 North: 1898109.29 ft
 East: 1171902.18 ft
 Station: 1103+77.81
 Offset: 27.3835 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	580.2	Hard, brown SILTY CLAY LOAM, trace gravel --FILL--	5		1	7 6 6	4.50 P	16			--In-Situ Vane Shear, 20.5 feet-- --S _{u undis} = 775.4 psf-- --S _{u remold} = 360.4 psf-- --Sensitivity = 2.2--	5		5			
	576.7	Soft, gray SILTY CLAY LOAM	25		2	1 2 3	0.41 B	23			--In-Situ Vane Shear, 23.0 feet-- --S _{u undis} = 600.6 psf-- --S _{u remold} = 305.8 psf-- --Sensitivity = 2.0--	6		6			
			10								--In-Situ Vane Shear, 25.5 feet-- --S _{u undis} = 578.8 psf-- --S _{u remold} = 316.7 psf-- --Sensitivity = 1.8--	7		7			
			15								--In-Situ Vane Shear, 28.0 feet-- --S _{u undis} = 611.6 psf-- --S _{u remold} = 338.5 psf-- --Sensitivity = 1.8--	8		8			
			20								--In-Situ Vane Shear, 30.5 feet-- --S _{u undis} = 786.3 psf-- --S _{u remold} = 382.2 psf-- --Sensitivity = 2.1--	9		9			
			10								--In-Situ Vane Shear, 10.5 feet-- --S _{u undis} = 972.0 psf-- --S _{u remold} = 611.6 psf-- --Sensitivity = 1.6--	1		1			
			15								--In-Situ Vane Shear, 13.0 feet-- --S _{u undis} = 982.9 psf-- --S _{u remold} = 589.7 psf-- --Sensitivity = 1.7--	2		2			
			20								--In-Situ Vane Shear, 15.5 feet-- --S _{u undis} = 873.7 psf-- --S _{u remold} = 513.3 psf-- --Sensitivity = 1.7--	3		3			
			25								--In-Situ Vane Shear, 18.0 feet-- --S _{u undis} = 928.3 psf-- --S _{u remold} = 360.4 psf-- --Sensitivity = 2.6--	4		4			
			30								--In-Situ Vane Shear, 33.0 feet-- --S _{u undis} = 698.9 psf-- --S _{u remold} = 404.1 psf-- --Sensitivity = 1.7--	10		10			
			35								--In-Situ Vane Shear, 35.5 feet-- --S _{u undis} = 808.1 psf-- --S _{u remold} = 502.4 psf-- --Sensitivity = 1.6--	11		11			
			40								--In-Situ Vane Shear, 38.0 feet-- --S _{u undis} = 982.9 psf-- --S _{u remold} = 546.0 psf-- --Sensitivity = 1.8--	12		12			

GENERAL NOTES

Begin Drilling **12-09-2015** Complete Drilling **12-14-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **F. Bozga** Checked by **A. Kurnia**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG VST-06

WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 585.69 ft
 North: 1898109.29 ft
 East: 1171902.18 ft
 Station: 1103+77.81
 Offset: 27.3835 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--In-Situ Vane Shear, 40.5 feet-- -- $S_{u\text{undis}}$ = 906.4 psf-- -- $S_{u\text{remold}}$ = 524.2 psf-- --Sensitivity = 1.7--			13	VS	0.91										
	542.2	--In-Situ Vane Shear, 43.0 feet-- -- $S_{u\text{undis}}$ = 677.1 psf-- -- $S_{u\text{remold}}$ = 393.1 psf-- --Sensitivity = 1.7-- Boring terminated at 43.50 ft			14	VS	0.68										
			45														
			50														
			55														
			60														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **12-09-2015** Complete Drilling **12-14-2015**
 Drilling Contractor **Wang Testing Services** Drill Rig **CME-55 TMR [85%]**
 Driller **R&N** Logger **F. Bozga** Checked by **A. Kurnia**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
 **backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG Z051-HA-01

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.72 ft
 North: 1900875.70 ft
 East: 1171630.53 ft
 Station: 6165+71.74
 Offset: 114.72 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	585.0	Black to brown, LOAM, little gravel, trace organics; damp --FILL--				1	PUSSH	NP	17											
		Stiff to very stiff, gray SILTY CLAY, trace gravel; damp				2	PUSSH	2.50 P	21											
			5			3	PUSSH	2.25 P	20											
						4	PUSSH	2.50 P	20											
						5	PUSSH	1.50 P	23											
	576.7	Medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp	10			6	PUSSH	0.50 P	21											
	574.7	Boring terminated at 12.00 ft																		

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-30-2019** Complete Drilling **06-30-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **M&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **.1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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BORING LOG Z051-HA-02

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 583.92 ft
 North: 1900924.31 ft
 East: 1171620.89 ft
 Station: 6166+20.64
 Offset: 106.64 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black and gray, LOAM, some gravel and brick fragments, trace organic matter; damp --FILL--			1	P U S H	NP	14									
	580.9	Stiff to very stiff, gray, SILTY CLAY LOAM, trace gravel; damp --FILL--			2	P U S H	2.75 P	22									
			5		3	P U S H	1.50 P	21									
	577.4	Very soft, gray, CLAY to SILTY CLAY, trace gravel; damp to moist			4	P U S H	0.25 P	23									
					5	P U S H	< 0.25 P	25									
			10		6	P U S H	< 0.25 P	26									
					7	P U S H	< 0.25 P	25									
	569.9	Boring terminated at 12.00 ft															
			15														

GENERAL NOTES

Begin Drilling **06-30-2019** Complete Drilling **06-30-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **M&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-HA-03

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 586.38 ft
 North: 1900992.12 ft
 East: 1171624.78 ft
 Station: 6166+88.29
 Offset: 112.70 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black and brown, LOAM, some gravel, trace organic matter; damp --FILL--			1	P U S H	NP	14									
	583.6	Stiff to hard, gray, SILTY CLAY LOAM, trace gravel; damp			2	P U S H	> 4.50 P	19									
			5		3	P U S H	2.50 P	23									
	579.6	Very soft, gray, CLAY to SILTY CLAY, trace gravel; damp to moist			4	P U S H	1.75 P	25									
					5	P U S H	< 0.25 P	25									
			10		6	P U S H	< 0.25 P	25									
					7	P U S H	< 0.25 P	26									
	572.4	Boring terminated at 14.00 ft															
			15														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **06-30-2019** Complete Drilling **06-30-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **M&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG Z051-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.83 ft
 North: 1900841.90 ft
 East: 1171651.51 ft
 Station: 6165+37.29
 Offset: 134.60 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.3	Medium dense, black GRAVELLY coarse SAND; damp --AGGREGATE-- --FILL-- --RDR 3--			1	8 10 11	NP							9	1 1 1	0.16 B	25
		Loose, gray and brown SANDY GRAVEL, brick fragments; damp --FILL-- --RDR 3 to 4--			2	4 3 3	NP	17				25		10	1 2 2	0.16 B	25
	587.2	Very stiff, gray SILTY CLAY, trace gravel; damp to moist --RDR 2--			3	2 1 2	NP							11	1 1 2	0.33 B	25
					4	2 2 3	2.30 B	23				30		12	1 1 2	0.16 B	23
	583.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--			5	1 2 2	0.82 B	27									
					6	1 1 1	0.25 B	25				35		13	1 1 2	0.16 B	26
					7	1 1 2	0.41 B	18									
					8	1 1 1	0.16 B	27				40		14	1 1 2	0.16 B	26

GENERAL NOTES

Begin Drilling **07-02-2019** Complete Drilling **07-02-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.83 ft
 North: 1900841.90 ft
 East: 1171651.51 ft
 Station: 6165+37.29
 Offset: 134.60 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	532.1									532.1	Very stiff, gray, damp SILTY CLAY, trace gravel --RDR 2--						
			45		15	2 2 5	0.41 B	24				65		19	5 8 10	2.21 B	19
	547.1	Medium stiff to stiff, gray SILTY CLAY, trace gravel; damp to moist --RDR 2--								523.8	Boring terminated at 70.00 ft						
			50		16	3 5 6	1.23 B	19				70		20	5 8 11	2.30 B	13
			55		17	3 4 7	0.82 B	23				75					
			60		18	3 4 5	1.07 B	25				80					

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-02-2019** Complete Drilling **07-02-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.83 ft
 North: 1900890.48 ft
 East: 1171650.26 ft
 Station: 6165+85.89
 Offset: 134.91 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.62	62-inch thick, ASPHALT --PAVEMENT--															
	592.3	Medium dense, black and gray, coarse SAND, trace gravel; damp --AGGREGATE BASE-- --RDR 2--	1		1	8 5 5	NP	10						9	1 2 2	0.25 P	26
		Loose to very dense, brown SANDY GRAVEL, some crushed concrete, brick fragments, debris; damp --FILL-- --RDR 2 to 3--	2		2	7 3 1	NP	74				25		10	1 2 2	0.16 B	25
			3		3	44 50/5"	NP	9						11	1 1 2	0.41 B	24
	586.1	Very stiff, gray SILTY CLAY, trace gravel; damp --RDR 3--	4		4	7 4 4	1.64 B	26				30		12	1 1 1	0.16 B	27
	582.1	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--	5		5	5 3 2	NR										
			6		6	2 1 2	< 0.25 P	28				35		13	1 1 2	0.16 B	27
			7		7	1 1 1	< 0.25 P	32									
			8		8	0 1 1	0.08 B	26				40		14	2 2 2	0.16 B	25

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-02-2019** Complete Drilling **07-02-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.83 ft
 North: 1900890.48 ft
 East: 1171650.26 ft
 Station: 6165+85.89
 Offset: 134.91 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 3 4	0.16 B	24				65		19	5 6 7	1.31 B	20
	547.1	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--	50		16	4 4 5	0.33 B	17		523.8		70		20	6 10 13	1.25 P	22
			55		17	4 4 7	0.82 B	20				75					
			60		18	4 5 6	1.64 B	18				80					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	07-02-2019	Complete Drilling	07-02-2019	While Drilling	Rotary wash		
Drilling Contractor	Wang Testing Services	Drill Rig	B-57 TMR [91%]	At Completion of Drilling	mud in the borehole		
Driller	N&A	Logger	M. Sadowski	Checked by	C. Marin		
Drilling Method	3.25" IDA HSA, boring backfilled upon completion			Time After Drilling	NA		
				Depth to Water	NA		
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.76 ft
 North: 1900935.68 ft
 East: 1171645.04 ft
 Station: 6166+31.23
 Offset: 131.14 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.62	2-inch thick, ASPHALT --PAVEMENT--															
		Loose to very dense, brown, damp SANDY GRAVEL, few brick fragments and crushed asphalt			1	5 4 5	NP	10						9	1 1 1	0.16 B	26
		--FILL-- --RDR 3 to 5--			2	5 4 2	NP	19				25		10	1 1 2	0.25 B	25
					3	5 2 3	NP	18						11	1 1 2	0.25 B	26
					4	50/4"	NP	5				30		12	1 1 2	0.33 B	26
	583.3	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel; damp			5	0 1 1	0.25 B	28									
		--RDR 2 to 3--			6	2 1 1	0.49 B	29				35		13	1 2 2	0.08 B	26
					7	0 1 1	0.08 B	27									
					8	1 1 1	0.08 B	28				40		14	1 1 2	NR	

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-11-2019** Complete Drilling **07-11-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **4.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 593.76 ft
 North: 1900935.68 ft
 East: 1171645.04 ft
 Station: 6166+31.23
 Offset: 131.14 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
	547.0	Medium stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--	45	X	15	1 2 4	0.57 B	25				65	X	19	5 8 11	2.05 B	21	
			50	X	16	3 4 7	0.66 B	16		523.8		70	X	20	8 8 9	1.80 B	23	
				55	○	17	3 3 5	NR					75					
				60	X	18	5 7 9	1.39 B	18				80					
										Boring terminated at 70.00 ft								

GENERAL NOTES

Begin Drilling **07-11-2019** Complete Drilling **07-11-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **N&A** Logger **M. Sadowski** Checked by **C. Marin**
 Drilling Method **4.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WEI Job No.: 1100-04-01

Client **AECOM**
 Project **Jane Byrne Interchange**
 Location **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 589.15 ft
 North: 1901046.55 ft
 East: 1171625.03 ft
 Station: 6167+42.68
 Offset: 114.70 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)		
	587.8	4-inch thick, ASPHALT over 12-inch thick, CONCRETE --PAVEMENT--									--S _{u undis} = 1141.9 psf-- --S _{u remold} = 797.2 psf-- --Sensitivity = 1.4--			9					
		Medium dense to very dense, brown to gray CRUSHED STONE and concrete; dry --FILL--			1	9 10 8	NP	3											
					2	5 9	NP	18											
	583.9	Very soft to soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--	5			50/1					--In-Situ Vane Shear, 24.5 feet-- --S _{u undis} = 840.3 psf-- --S _{u remold} = 452.7 psf-- --Sensitivity = 1.9-- --Q _u =0.62 tsf (UC test) --L _L (%)=32, P _L (%)=17-- --%Gravel=3.7-- --%Sand=14.7-- --%Silt=46.6-- --%Clay=35.0-- --A-6 (12)--			10					
					3	2 1 2	< 0.25 P	26						11			< 0.25 P	24	
					4	1 1 1	0.33 B	27			--In-Situ Vane Shear, 29.5 feet-- --S _{u undis} = 904.9 psf-- --S _{u remold} = 474.0 psf-- --Sensitivity = 1.9--			12					
					5			27						13			< 0.25 P	24	
					6						--In-Situ Vane Shear, 14.5 feet-- --S _{u undis} = 560.2 psf-- --S _{u remold} = 301.6 psf-- --Sensitivity = 1.9-- --Q _u =0.21 tsf (UC test) --L _L (%)=32, P _L (%)=17-- --%Gravel=6.8-- --%Sand=20.1-- --%Silt=43.4-- --%Clay=29.7-- --A-6 (9)--			15					
					7			26						14					
					8			26			--In-Situ Vane Shear, 34.5 feet-- --S _{u undis} = 667.9 psf-- --S _{u remold} = 344.7 psf-- --Sensitivity = 1.9-- --Q _u =0.31 tsf (UC test) --L _L (%)=33, P _L (%)=17-- --%Gravel=2.9-- --%Sand=13.8-- --%Silt=47.8-- --%Clay=35.5-- --A-6 (12)--			15				< 0.25 P	28
											--In-Situ Vane Shear, 19.5 feet--			16					
											--In-Situ Vane Shear, 39.5 feet--								

GENERAL NOTES

Begin Drilling **06-30-2019** Complete Drilling **06-30-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **M&A** Logged by **M. Sadowski/F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring**
backfilled upon completion

WATER LEVEL DATA

While Drilling **Rotary wash**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19



BORING LOG Z051-RWB-04

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WEI Job No.: 1100-04-01

Client: **AECOM**
 Project: **Jane Byrne Interchange**
 Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
 Elevation: 589.15 ft
 North: 1901046.55 ft
 East: 1171625.03 ft
 Station: 6167+42.68
 Offset: 114.70 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		-- $S_{u\text{ undis}} = 840.3$ psf-- -- $S_{u\text{ remold}} = 387.8$ psf-- --Sensitivity = 2.1--			17	UCSP	0.50	24									
		--In-Situ Vane Shear, 44.5 feet-- -- $S_{u\text{ undis}} = 904.9$ psf-- -- $S_{u\text{ remold}} = 409.4$ psf-- --Sensitivity = 2.2--	45		18	VS				524.2		65		22	5 7 11	3.28 B	20
											Boring terminated at 65.00 ft						
			50		19	2 2 3	0.41 B	23				70					
	537.4	Stiff to very stiff, gray SILTY CLAY, trace gravel; damp --RDR 2--															
			55		20	11 6 8	1.31 B	17				75					
			60		21	4 5 7	1.23 B	17				80					

GENERAL NOTES

Begin Drilling **06-30-2019** Complete Drilling **06-30-2019**
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR [91%]**
 Driller **M&A** Logged by **M. Sadowski/F. Bozga** Checked by **C. Marin**
 Drilling Method **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ∇ **Rotary wash**
 At Completion of Drilling ∇ **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/8/19

APPENDIX B
IDOT BMPR 507A and 508A Forms

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
I-90/94 NB (Sta. 6100+00.00 to Sta. 6175+07.63)

COUNTY
Cook County

Lab. No.	SB90-SGB-20 No.2	NB90-SGB-03 No.2	SB90-SGB-18 No.3	SB90-SGB-15 No.2	NB90-SGB-07 No.2
Station (ft)	6102+00.18	6105+47.62	6108+21.39	6117+46.65	6117+80.85
Offset (ft)	33.9850 LT	17.3145 LT	48.29 LT	68.57 LT	12.2418 LT
Depth (ft)	3	3.5	5	3	3.5
AASHTO M 145 Classification and Group Index	A-4 (0)	A-7-6 (15)	A-7-6 (33)	A-6 (9)	A-6 (12)
Illinois Textural Classification (Illinois Method)	Silty Loam	Clay	Clay	Silty Clay Loam	Silty Clay
Gradation--Passing 1" Sieve %					
--" 3/4" Sieve %					
--" 1/2" Sieve %	100.0	100.0		100.0	100.0
--" No.4 Sieve %	99.9	98.7	100.0	99.7	99.9
--" No.10 Sieve %	99.8	96.1	99.6	97.6	98.5
--" No.40 Sieve %	98.7	90.7	98.9	91.1	87.0
--" No.100 Sieve %	80.2	80.8	98.0	82.6	
--" No.200 Sieve %	54.2	74.8	97.4	77.6	83.1
Sand % (AASHTO T 88)	45.6	21.4	2.2	19.9	15.4
Silt % (AASHTO T 88)	50.3	43.9	40.3	48.9	50.9
Clay % (AASHTO T 88)	3.9	30.8	57.1	28.7	32.2
Liquid limit % (AASHTO T 89)	0.0	43.0	53.0	30.0	32.0
Plasticity index % (AASHTO T 90)	0.0	21.0	30.0	13.0	16.0
IBR % (Illinois Method)					
Standard Dry Density % (AASHTO T 99)					
Optimum Moisture % (AASHTO T 99)					
Subgrade Support Rating	POOR	FAIR	FAIR	POOR	FAIR
In situ Moisture % (AASHTO T 99)	13	33	46	21	19

SOIL TEST DATA

SECTION

I-90/94 NB (Sta. 6100+00.00 to Sta. 6175+07.63)

Lab. No.	02-RWB-05 No.4	BFB-04 No.2	02-RWB-06 No.3	BFB-02 No.2	NB90-SGB-10 No.3
Station (ft)	6123+98.65	6124+07.55	6124+73.87	6125+89.82	6126+61.54
Offset (ft)	58.05 RT	85.34 LT	53.59 RT	112.07 LT	23.2181 RT
Depth (ft)	8.5	3.5	6	3.5	5.0
AASHTO M 145 Classification and Group Index	A-6 (13)	A-4 (2)	A-6 (7)	A-7-6 (24)	A-7-6 (22)
Illinois Textural Classification (Illinois Method)	Silty Clay	Clay Loam	Silty Clay Loam	Clay	Clay
Gradation--Passing 1" Sieve %					
--" 3/4" Sieve %					
--" 1/2" Sieve %	100.0	100.0	100.0		100.0
--" No.4 Sieve %	98.8	95.2	99.0	100.0	99.7
--" No.10 Sieve %	95.8	87.3	95.8	99.5	98.6
--" No.40 Sieve %	87.1	73.5	86.0	98.1	95.7
--" No.100 Sieve %	81.6	64.0	78.4	95.9	92.5
--" No.200 Sieve %	78.1	59.2	73.4	94.1	90.4
Sand % (AASHTO T 88)	17.7	28.1	22.5	5.3	8.1
Silt % (AASHTO T 88)	47.9	41.7	49.7	38.6	45.6
Clay % (AASHTO T 88)	30.2	17.5	23.6	55.5	44.8
Liquid limit % (AASHTO T 89)	34.0	25.0	26.0	44	43
Plasticity index % (AASHTO T 90)	20.0	9.0	13.0	24	23
IBR % (Illinois Method)					
Standard Dry Density % (AASHTO T 99)					
Optimum Moisture % (AASHTO T 99)					
Subgrade Support Rating	FAIR	POOR	POOR	FAIR	FAIR
In situ Moisture % (AASHTO T 99)	16	14	17	36	31

SOIL TEST DATA

SECTION

I-90/94 NB (Sta. 6100+00.00 to Sta. 6175+07.63)

Lab. No.	NB90-SGB-13 No.2	SB90-SGB-06 No.2	SB90-SGB-02 No.2	33-RWB-02 No.9	Z051-RWB-04 No.7
Station (ft)	6138+91.76	6147+83.76	6158+72.66	6164+04.19	6167+42.63
Offset (ft)	8.1585 LT	17.3240 LT	127.30 LT	108.89 RT	114.68 RT
Depth (ft)	3.0	3.5	3.0	21.0	15.0
AASHTO M 145 Classification and Group Index	A-6 (13)	A-6 (11)	A-6 (9)	A-6 (17)	A-6 (9)
Illinois Textural Classification (Illinois Method)	Silty Clay	Silty Clay	Silty Clay Loam	Clay	Clay
Gradation--Passing 1" Sieve %					
--" 3/4" Sieve %					
--" 1/2" Sieve %	100.0	100.0	100.0	100.0	100.0
--" No.4 Sieve %	99.6	99.6	98.5	98.6	99.3
--" No.10 Sieve %	97.1	97.5	96.5	94.9	93.2
--" No.40 Sieve %	91.3	90.6	90.9	89.4	85.4
--" No.100 Sieve %	86.1	84.6	82.0	84.6	77.1
--" No.200 Sieve %	82.9	81.0	76.9	81.7	73.1
Sand % (AASHTO T 88)	14.2	16.6	19.7	13.2	20.1
Silt % (AASHTO T 88)	50.2	51.2	52.7	42.2	43.4
Clay % (AASHTO T 88)	32.7	29.8	24.1	39.5	29.7
Liquid limit % (AASHTO T 89)	35	32	29	39	32
Plasticity index % (AASHTO T 90)	17	14	15	21	15
IBR % (Illinois Method)					
Standard Dry Density % (AASHTO T 99)					
Optimum Moisture % (AASHTO T 99)					
Subgrade Support Rating	FAIR	POOR	POOR	FAIR	POOR
In situ Moisture % (AASHTO T 99)	19	18	16	31	26

SOIL TEST DATA

SECTION

I-90/94 NB (Sta. 6100+00.00 to Sta. 6175+07.63)

Lab. No.	NB90-SGB-21 No.2	NB90-SGB-23 No.2
Station (ft)	6167+83.26	6172+79.72
Offset (ft)	35.0586 RT	31.3803 RT
Depth (ft)	3.0	3.0
AASHTO M 145 Classification and Group Index	A-6 (12)	A-6 (9)
Illinois Textural Classification (Illinois Method)	Clay	Silty Clay Loam
Gradation--Passing 1" Sieve %		
--" 3/4" Sieve %		100.0
--" 1/2" Sieve %	100.0	98.0
--" No.4 Sieve %	99.5	97.7
--" No.10 Sieve %	96.9	94.3
--" No.40 Sieve %	90.0	84.5
--" No.100 Sieve %	82.9	76.4
--" No.200 Sieve %	78.5	71.4
Sand % (AASHTO T 88)	18.4	22.9
Silt % (AASHTO T 88)	48.3	49.0
Clay % (AASHTO T 88)	30.2	22.5
Liquid limit % (AASHTO T 89)	34	32
Plasticity index % (AASHTO T 90)	16	15
IBR % (Illinois Method)		
Standard Dry Density % (AASHTO T 99)		
Optimum Moisture % (AASHTO T 99)		
Subgrade Support Rating	FAIR	POOR
In situ Moisture % (AASHTO T 99)	18	22

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Taylor Entrance Ramp (Sta. 6305+21.15 to Sta. 6309+70.74)

COUNTY
Cook County

Lab. No.	02-RWB-03 No.3	02-RWB-06 No.3
Station (ft)	6307+22.31	6309+48.18
Offset (ft)	18.90 RT	16.48 RT
Depth (ft)	6	6
AASHTO M 145 Classification and Group Index	A-6 (9)	A-6 (7)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam	Silty Clay Loam
Gradation--Passing 1" Sieve %		
-- 3/4" Sieve %		
-- 1/2" Sieve %	100.0	100.0
-- No.4 Sieve %	99.5	99.0
-- No.10 Sieve %	96.9	95.8
-- No.40 Sieve %	82.9	86.0
-- No.100 Sieve %	75.1	78.4
-- No.200 Sieve %	70.6	73.4
Sand % (AASHTO T 88)	26.3	22.5
Silt % (AASHTO T 88)	51.1	49.7
Clay % (AASHTO T 88)	19.5	23.6
Liquid limit % (AASHTO T 89)	30.0	26.0
Plasticity index % (AASHTO T 90)	16.0	13.0
IBR % (Illinois Method)		
Standard Dry Density % (AASHTO T 99)		
Optimum Moisture % (AASHTO T 99)		
Subgrade Support Rating	POOR	POOR
In situ Moisture % (AASHTO T 99)	29	17

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
NB CD Road (Sta. 6139+97.50 to Sta. 6367+04.01)

COUNTY
Cook County

Lab. No.	1704-B-04 No.3	1710-B-04 No.5	1710-B-03 No.2	NB90-SGB-21 No.2	NB90-SGB-23 No.2	Z051-RWB-04 No.7
Station (ft)	5159+38.86	6327+26.49	6327+75.58	6360+37.15	6365+40.16	6359+96.64
Offset (ft)	50.4076 RT	65.29 RT	47.56 RT	9.50 LT	9.50 LT	70.68 RT
Depth (ft)	6	11	3.5	3	3	15
AASHTO M 145 Classification and Group Index	A-6 (10)	A-6 (11)	A-6 (10)	A-6 (12)	A-6 (9)	A-6 (9)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam	Clay	Silty Clay Loam	Clay	Silty Clay Loam	Clay
Gradation--Passing 1" Sieve %						
--" 3/4" Sieve %					100.0	
--" 1/2" Sieve %	100.0	100.0	100.0	100.0	98.0	100.0
--" No.4 Sieve %	99.2	99.6	99.8	99.5	97.7	99.3
--" No.10 Sieve %	97.1	97.5	98.0	96.9	94.3	93.2
--" No.40 Sieve %	90.4	90.9	92.1	90.0	84.5	85.4
--" No.100 Sieve %	82.2	83.7	85.5	82.9	76.4	77.1
--" No.200 Sieve %	77.6	79.5	81.4	78.5	71.4	73.1
Sand % (AASHTO T 88)	19.5	18.0	16.6	18.4	22.9	20.1
Silt % (AASHTO T 88)	49.6	47.9	52.1	48.3	49.0	43.4
Clay % (AASHTO T 88)	28.0	31.6	29.3	30.2	22.5	29.7
Liquid limit % (AASHTO T 89)	31.0	33.0	32.0	34.0	32.0	32.0
Plasticity index % (AASHTO T 90)	15.0	16.0	13.0	16.0	15.0	15.0
IBR % (Illinois Method)						
Standard Dry Density % (AASHTO T 99)						
Optimum Moisture % (AASHTO T 99)						
Subgrade Support Rating	POOR	FAIR	POOR	FAIR	POOR	POOR
Insitu Moisture % (AASHTO T 99)	24	24	19	18	22	26

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Ramp EN (Sta. 1617+70.00 to Sta. 1625+18.68)

COUNTY
Cook County

Lab. No.	1704-B-04 No.3
Station (ft)	5159+38.86
Offset (ft)	50.4076 RT
Depth (ft)	6
AASHTO M 145 Classification and Group Index	A-6 (10)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam
Gradation--Passing 1" Sieve %	
--" 3/4" Sieve %	
--" 1/2" Sieve %	100.0
--" No.4 Sieve %	99.2
--" No.10 Sieve %	97.1
--" No.40 Sieve %	90.4
--" No.100 Sieve %	82.2
--" No.200 Sieve %	77.6
Sand % (AASHTO T 88)	19.5
Silt % (AASHTO T 88)	49.6
Clay % (AASHTO T 88)	28.0
Liquid limit % (AASHTO T 89)	31.0
Plasticity index % (AASHTO T 90)	15.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	POOR
In situ Moisture % (AASHTO T 99)	24

SOIL TEST DATA

ROUTE

Jane Byrne Interchange Reconstruction

PROJECT

1100-04-01

SECTION

Jackson Entrance Ramp (Sta. 8240+00.00 to Sta. 8245+05.53)

COUNTY

Cook County

Lab. No.	SB90-SGB-06 No.2
Station (ft)	8242+8.70
Offset (ft)	85.07 LT
Depth (ft)	3.5
AASHTO M 145 Classification and Group Index	A-6 (11)
Illinois Textural Classification (Illinois Method)	Silty Clay
Gradation--Passing 1" Sieve %	
--" 3/4" Sieve %	
--" 1/2" Sieve %	100.0
--" No.4 Sieve %	99.6
--" No.10 Sieve %	97.5
--" No.40 Sieve %	90.6
--" No.100 Sieve %	84.6
--" No.200 Sieve %	81.0
Sand % (AASHTO T 88)	16.6
Silt % (AASHTO T 88)	51.2
Clay % (AASHTO T 88)	29.8
Liquid limit % (AASHTO T 89)	32.0
Plasticity index % (AASHTO T 90)	14.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	POOR
In situ Moisture % (AASHTO T 99)	18

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Madison Exit Ramp (Sta. 8540+00.00 to Sta. 8548+86.82)

COUNTY
Cook County

Lab. No.	30-RWB-03 No.1
Station ft)	8547+48.97
Offset (ft)	4.13 LT
Depth (ft)	13.5
AASHTO M 145 Classification and Group Index	A-6 (10)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam
Gradation--Passing 1" Sieve %	
--" 3/4" Sieve %	
--" 1/2" Sieve %	100.0
--" No.4 Sieve %	99.3
--" No.10 Sieve %	96.8
--" No.40 Sieve %	88.8
--" No.100 Sieve %	81.7
--" No.200 Sieve %	77.3
Sand % (AASHTO T 88)	19.5
Silt % (AASHTO T 88)	49.2
Clay % (AASHTO T 88)	28.1
Liquid limit % (AASHTO T 89)	32.0
Plasticity index % (AASHTO T 90)	15.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	POOR
Insitu Moisture % (AASHTO T 99)	25

SOIL TEST DATA

ROUTE

Jane Byrne Interchange Reconstruction

PROJECT

1100-04-01

SECTION

Washington Exit Ramp (Sta. 8680+00.00 to Sta. 8684+50.69)

COUNTY

Cook County

Lab. No.	33-RWB-02 No.9
Station ft)	8684+36.73
Offset (ft)	7.95 LT
Depth (ft)	21
AASHTO M 145 Classification and Group Index	A-6 (17)
Illinois Textural Classification (Illinois Method)	Clay
Gradation--Passing 1" Sieve %	
--" 3/4" Sieve %	
--" 1/2" Sieve %	100.0
--" No.4 Sieve %	98.6
--" No.10 Sieve %	94.9
--" No.40 Sieve %	89.4
--" No.100 Sieve %	84.6
--" No.200 Sieve %	81.7
Sand % (AASHTO T 88)	13.2
Silt % (AASHTO T 88)	42.2
Clay % (AASHTO T 88)	39.5
Liquid limit % (AASHTO T 89)	39.0
Plasticity index % (AASHTO T 90)	21.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	FAIR
Insitu Moisture % (AASHTO T 99)	31

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
Randolph Exit Ramp (Sta. 8740+00.00 to Sta. 8744+73.19)

COUNTY
Cook County

Lab. No.	33-RWB-02 No.9	Z051-RWB-04 No.7
Station (ft)	8740+26.02	8743+63.62
Offset (ft)	31.91 RT	2.97 LT
Depth (ft)	21	15
AASHTO M 145 Classification and Group Index	A-6 (17)	A-6 (9)
Illinois Textural Classification (Illinois Method)	Clay	Clay
Gradation--Passing 1" Sieve %		
--" 3/4" Sieve %		
--" 1/2" Sieve %	100.0	100.0
--" No.4 Sieve %	98.6	99.3
--" No.10 Sieve %	94.9	93.2
--" No.40 Sieve %	89.4	85.4
--" No.100 Sieve %	84.6	77.1
--" No.200 Sieve %	81.7	73.1
Sand % (AASHTO T 88)	13.2	20.1
Silt % (AASHTO T 88)	42.2	43.4
Clay % (AASHTO T 88)	39.5	29.7
Liquid limit % (AASHTO T 89)	39.0	32.0
Plasticity index % (AASHTO T 90)	21.0	15.0
IBR % (Illinois Method)		
Standard Dry Density % (AASHTO T 99)		
Optimum Moisture % (AASHTO T 99)		
Subgrade Support Rating	FAIR	POOR
In situ Moisture % (AASHTO T 99)	31	26

SOIL TEST DATA

ROUTE

Jane Byrne Interchange Reconstruction

PROJECT

1100-04-01

SECTION

Lake Exit Ramp (Sta. 8840+00.00 to Sta. 8849+09.73)

COUNTY

Cook County

Lab. No.	33-RWB-02 No.9	Z051-RWB-04 No.7	NB90-SGB-21 No.2
Station ft)	8840+35.80	8846+09.98	8846+47.97
Offset (ft)	28.2 RT	37.60 RT	86.93 LT
Depth (ft)	21	15	3
AASHTO M 145 Classification and Group Index	A-6 (17)	A-6 (9)	A-6 (12)
Illinois Textural Classification (Illinois Method)	Clay	Clay	Clay
Gradation--Passing 1" Sieve %			
--" 3/4" Sieve %			
--" 1/2" Sieve %	100.0	100.0	100.0
--" No.4 Sieve %	98.6	99.3	99.5
--" No.10 Sieve %	94.9	93.2	96.9
--" No.40 Sieve %	89.4	85.4	90.0
--" No.100 Sieve %	84.6	77.1	82.9
--" No.200 Sieve %	81.7	73.1	78.5
Sand % (AASHTO T 88)	13.2	20.1	18.4
Silt % (AASHTO T 88)	42.2	43.4	48.3
Clay % (AASHTO T 88)	39.5	29.7	30.2
Liquid limit % (AASHTO T 89)	39.0	32.0	34.0
Plasticity index % (AASHTO T 90)	21.0	15.0	16.0
IBR % (Illinois Method)			
Standard Dry Density % (AASHTO T 99)			
Optimum Moisture % (AASHTO T 99)			
Subgrade Support Rating	FAIR	POOR	FAIR
Insitu Moisture % (AASHTO T 99)	31	26	18

SOIL TEST DATA

ROUTE
Jane Byrne Interchange Reconstruction

PROJECT
1100-04-01

SECTION
I-90/94 SB (Sta. 6202+91.11 to Sta. 6252+85.00)

COUNTY
Cook County

Lab. No.	SB90-SGB-02 No.2	SB90-SGB-02 No.2	SB90-SGB-06 No.2	SB90-SGB-06 No.2	SB90-SGB-10 No.2
Station (ft)	620274.92	620274.92	621363.32	621363.32	622773.36
Offset (ft)	29.11 RT	29.11 RT	58.68 LT	58.68 LT	27.6237 LT
Depth (ft)	3	3	3.5	3.5	3
AASHTO M 145 Classification and Group Index	A-6 (9)	A-6 (9)	A-6 (11)	A-6 (11)	A-6 (11)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam	Silty Clay Loam	Silty Clay	Silty Clay	Silty Clay Loam
Gradation--Passing 1" Sieve %					
-- 3/4" Sieve %					
-- 1/2" Sieve %	100.0	100.0	100.0	100.0	
-- No.4 Sieve %	98.5	98.5	99.6	99.6	100.0
-- No.10 Sieve %	96.5	96.5	97.5	97.5	98.5
-- No.40 Sieve %	90.9	90.9	90.6	90.6	93.5
-- No.100 Sieve %	82.0	82.0	84.6	84.6	88.8
-- No.200 Sieve %	76.9	76.9	81.0	81.0	85.4
Sand % (AASHTO T 88)	19.7	19.7	16.6	16.6	13.1
Silt % (AASHTO T 88)	52.7	52.7	51.2	51.2	59.6
Clay % (AASHTO T 88)	24.1	24.1	29.8	29.8	25.8
Liquid limit % (AASHTO T 89)	29.0	29.0	32.0	32.0	31.0
Plasticity index % (AASHTO T 90)	15.0	15.0	14.0	14.0	14.0
IBR % (Illinois Method)					
Standard Dry Density % (AASHTO T 99)					
Optimum Moisture % (AASHTO T 99)					
Subgrade Support Rating	POOR	POOR	POOR	POOR	POOR
Insitu Moisture % (AASHTO T 99)	16	16	18	18	20

SOIL TEST DATA

SECTION

I-90/94 SB (Sta. 6202+91.11 to Sta. 6252+85.00)

Lab. No.	SB90-SGB-24 No.2	BFB-02 No.2	BFB-04 No.2	SB90-SGB-15 No.2	SB90-SGB-18 No.3	NB90-SGB-03 No.2
Station (ft)	622987.24	623562.04	623745.14	624407.68	625330.52	625603.92
Offset (ft)	83.14 RT	69.27' LT	58.81' LT	13.7774 LT	21.5773 LT	42.45 LT
Depth (ft)	3.5	3.5	3.5	3.0	5.0	3.5
AASHTO M 145 Classification and Group Index	A-6 (8)	A-7-6 (24)	A-4 (2)	A-6 (9)	A-7-6 (33)	A-7-6 (15)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam	Clay	Clay Loam	Silty Clay Loam	Clay	Clay
Gradation--Passing 1" Sieve %						
--" 3/4" Sieve %						
--" 1/2" Sieve %	100.0		100.0	100.0		100.0
--" No.4 Sieve %	98.6	100.0	95.2	99.7	100.0	98.7
--" No.10 Sieve %	97.2	99.5	87.3	97.6	99.6	96.1
--" No.40 Sieve %	92.1	98.1	73.5	91.1	98.9	90.7
--" No.100 Sieve %	87.3	95.9	64.0	82.6	98.0	80.8
--" No.200 Sieve %	83.9	94.1	59.2	77.6	97.4	74.8
Sand % (AASHTO T 88)	13.3	5.3	28.1	19.9	2.2	21.4
Silt % (AASHTO T 88)	64.3	38.6	41.7	48.9	40.3	43.9
Clay % (AASHTO T 88)	19.6	55.5	17.5	28.7	57.1	30.8
Liquid limit % (AASHTO T 89)	28.0	44.0	25.0	30	53	43
Plasticity index % (AASHTO T 90)	12.0	24.0	9.0	13	30	21
IBR % (Illinois Method)						
Standard Dry Density % (AASHTO T 99)						
Optimum Moisture % (AASHTO T 99)						
Subgrade Support Rating	POOR	FAIR	POOR	POOR	FAIR	FAIR
Insitu Moisture % (AASHTO T 99)	23	36	14	21	46	33

SOIL TEST DATA

ROUTE

Jane Byrne Interchange Reconstruction

PROJECT

1100-04-01

SECTION

Ramp SW (Sta. 1300+00.00 to Sta. 1319+75.65)

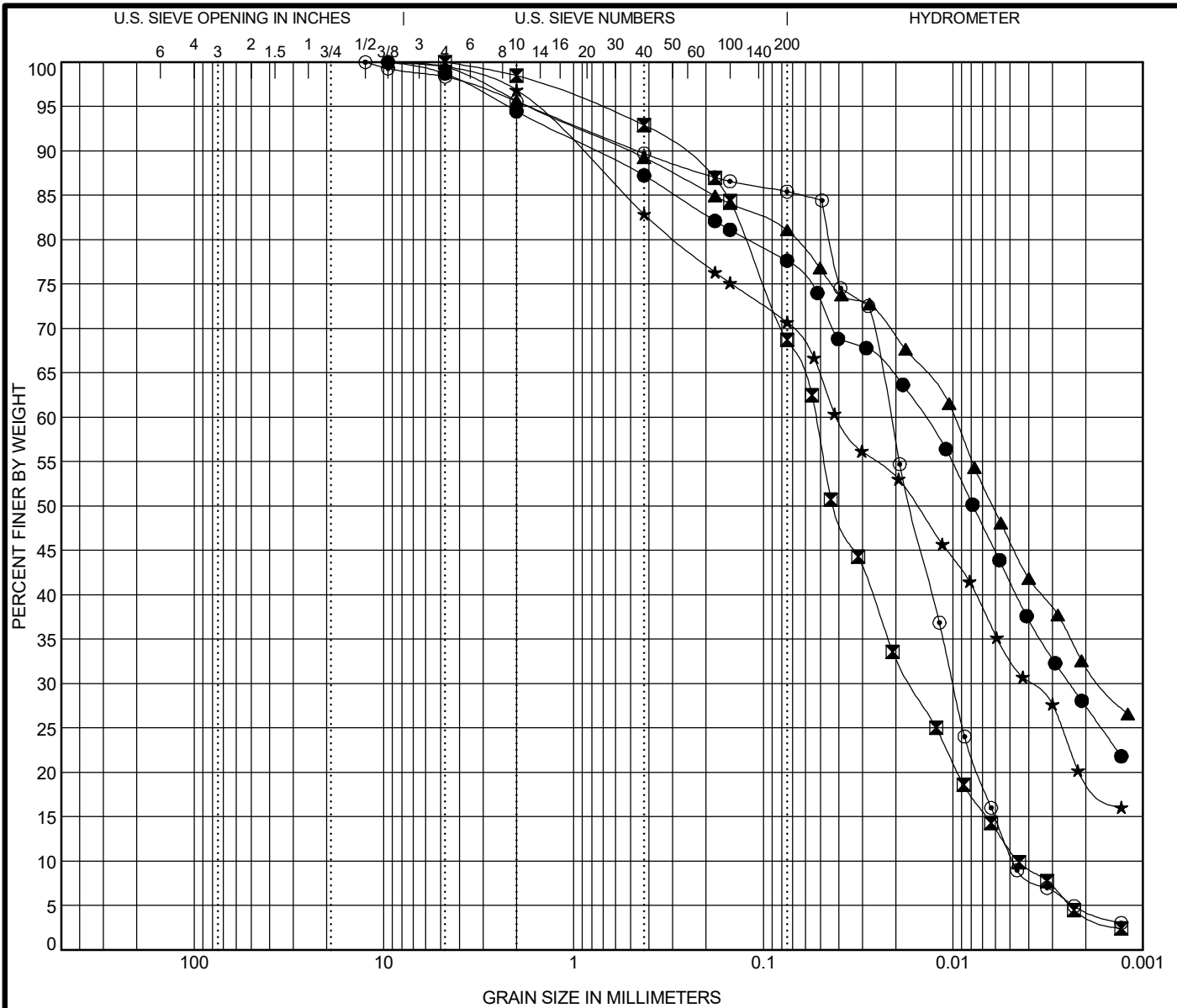
COUNTY

Cook County

Lab. No.	SB90-SGB-02 No.2
Station (ft)	1301+55.54
Offset (ft)	14.7720 LT
Depth (ft)	3
AASHTO M 145 Classification and Group Index	A-6 (9)
Illinois Textural Classification (Illinois Method)	Silty Clay Loam
Gradation--Passing 1" Sieve %	
--" 3/4" Sieve %	
--" 1/2" Sieve %	100.0
--" No.4 Sieve %	98.5
--" No.10 Sieve %	96.5
--" No.40 Sieve %	90.9
--" No.100 Sieve %	82.0
--" No.200 Sieve %	76.9
Sand % (AASHTO T 88)	19.7
Silt % (AASHTO T 88)	52.7
Clay % (AASHTO T 88)	24.1
Liquid limit % (AASHTO T 89)	29.0
Plasticity index % (AASHTO T 90)	15.0
IBR % (Illinois Method)	
Standard Dry Density % (AASHTO T 99)	
Optimum Moisture % (AASHTO T 99)	
Subgrade Support Rating	POOR
Insitu Moisture % (AASHTO T 99)	16

APPENDIX C

Laboratory Test Results



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● 02-RWB-01#5 11.0 ft	Silty Clay Loam	33	15	18		
☒ 02-RWB-01#18 58.5 ft	Silty Loam	NP	NP	NP	1.16	11.61
▲ 02-RWB-02#8 18.5 ft	Silty Clay	36	16	20		
★ 02-RWB-03#3 6.0 ft	Silty Clay Loam	30	14	16		
⊙ 02-RWB-03#15 43.5 ft	Silt	NP	NP	NP	0.97	4.44

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 02-RWB-01#5 11.0 ft	9.5	0.014	0.002		5.5	17.0	50.1	27.4
☒ 02-RWB-01#18 58.5 ft	4.75	0.053	0.017	0.005	1.5	30.0	64.4	4.0
▲ 02-RWB-02#8 18.5 ft	9.5	0.01	0.002		4.3	14.7	48.9	32.1
★ 02-RWB-03#3 6.0 ft	9.5	0.041	0.004		3.1	26.3	51.1	19.5
⊙ 02-RWB-03#15 43.5 ft	12.5	0.021	0.01	0.005	4.4	10.2	80.9	4.5

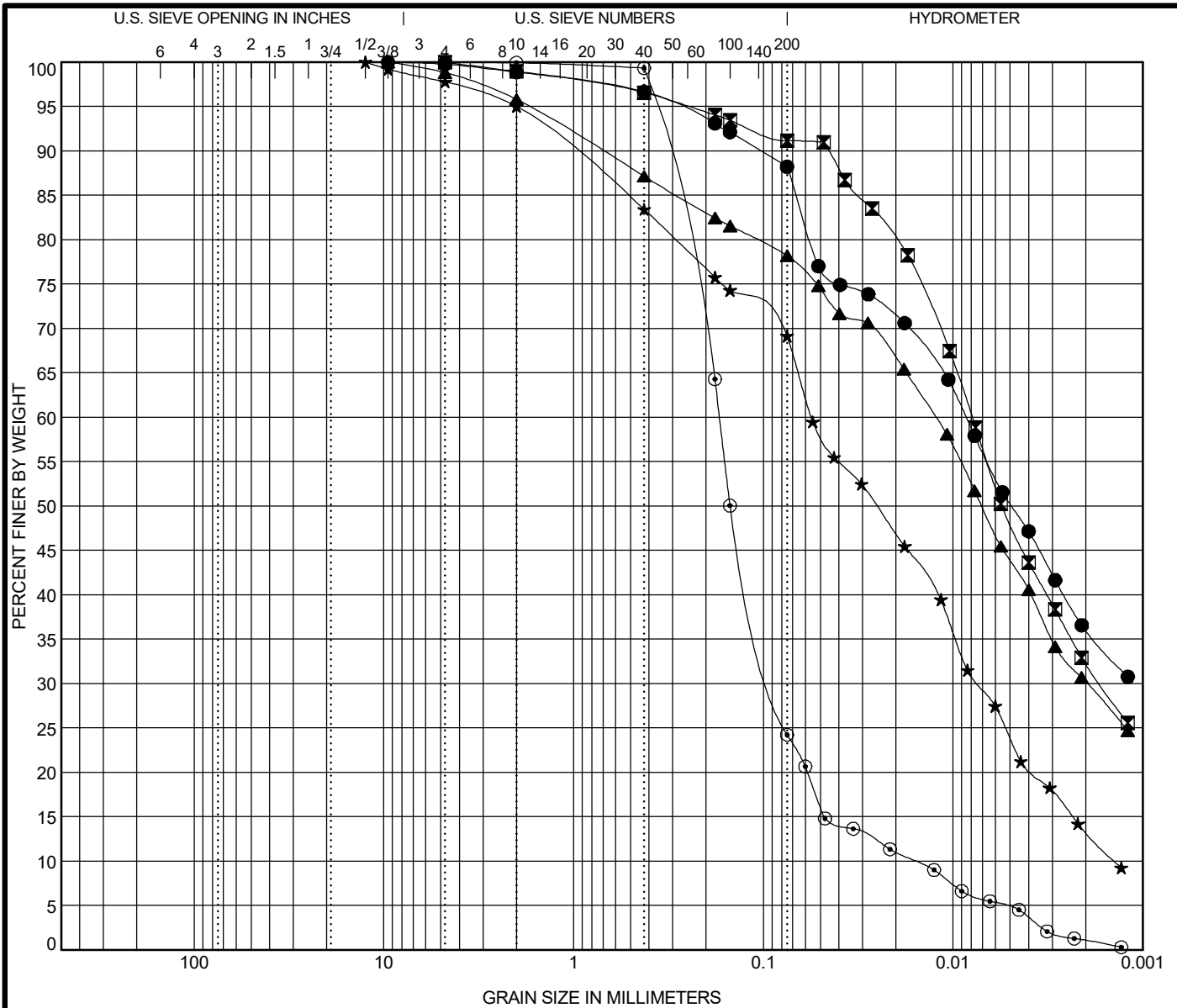


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GRAIN SIZE DISTRIBUTION

Project: Jane Byrne Interchange
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01

WEI GRAIN SIZE IDH 11000401.GPJ US LAB.GDT 7/25/19



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● 02-RWB-03#19 63.5 ft	Silty Clay	37	14	23		
☒ 02-RWB-04#17 53.5 ft	Silty Clay	31	15	16		
▲ 02-RWB-05#4 8.5 ft	Silty Clay	34	15	19		
★ 02-RWB-05#16 48.5 ft	Silty Loam	26	13	13	0.70	39.71
◎ 02-RWB-05#19 63.5 ft	Sandy Loam	NP	NP	NP	2.84	10.77

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 02-RWB-03#19 63.5 ft	9.5	0.009			1.1	11.1	51.8	36.1
☒ 02-RWB-04#17 53.5 ft	4.75	0.008	0.002		1.0	7.8	58.9	32.3
▲ 02-RWB-05#4 8.5 ft	9.5	0.012	0.002		4.2	17.7	47.9	30.2
★ 02-RWB-05#16 48.5 ft	12.5	0.056	0.007	0.001	5.0	26.3	55.4	13.3
◎ 02-RWB-05#19 63.5 ft	4.75	0.17	0.088	0.016	0.1	75.9	23.0	1.0

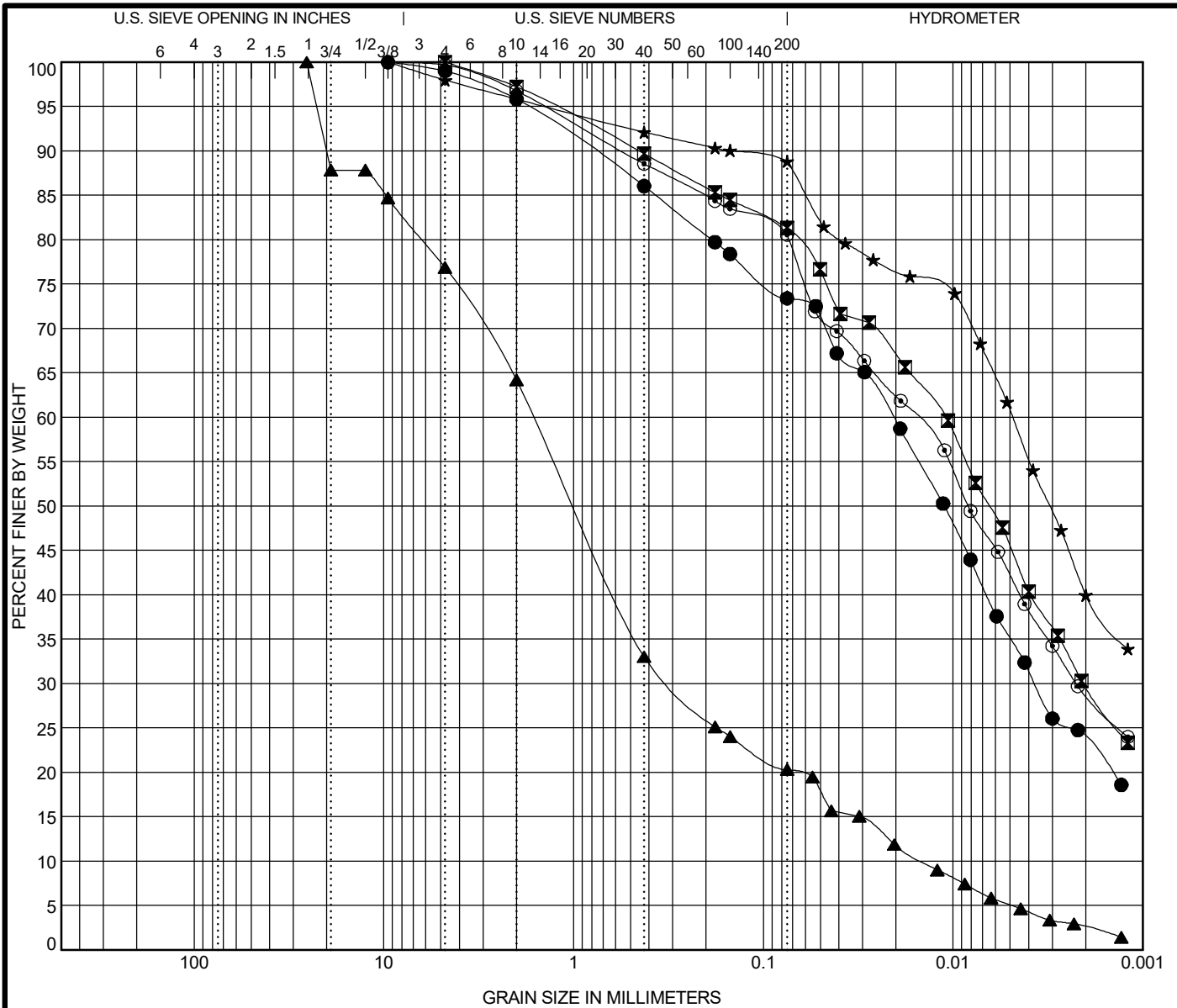
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification				LL	PL	PI	Cc	Cu
●	02-RWB-06#3 6.0 ft	Silty Clay Loam				26	13	13		
☒	02-RWB-06#11 26.0 ft	Silty Clay				36	16	20		
▲	02-RWB-06#19 63.5 ft	Gravelly Sandy Loam				NP	NP	NP	3.98	112.11
★	02-RWB-06#23 83.5 ft	Silty Clay				40	15	25		
◎	02-ST-06#2 18.0 ft	Silty Clay Loam				35	17	18		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	02-RWB-06#3 6.0 ft	9.5	0.021	0.004		4.2	22.5	49.7	23.6	
☒	02-RWB-06#11 26.0 ft	4.75	0.011	0.002		2.8	16.1	51.5	29.7	
▲	02-RWB-06#19 63.5 ft	25.4	1.622	0.306	0.014	35.8	43.9	17.7	2.6	
★	02-RWB-06#23 83.5 ft	9.5	0.005			4.2	7.2	48.6	40.0	
◎	02-ST-06#2 18.0 ft	9.5	0.016	0.002		3.2	16.6	51.4	28.8	

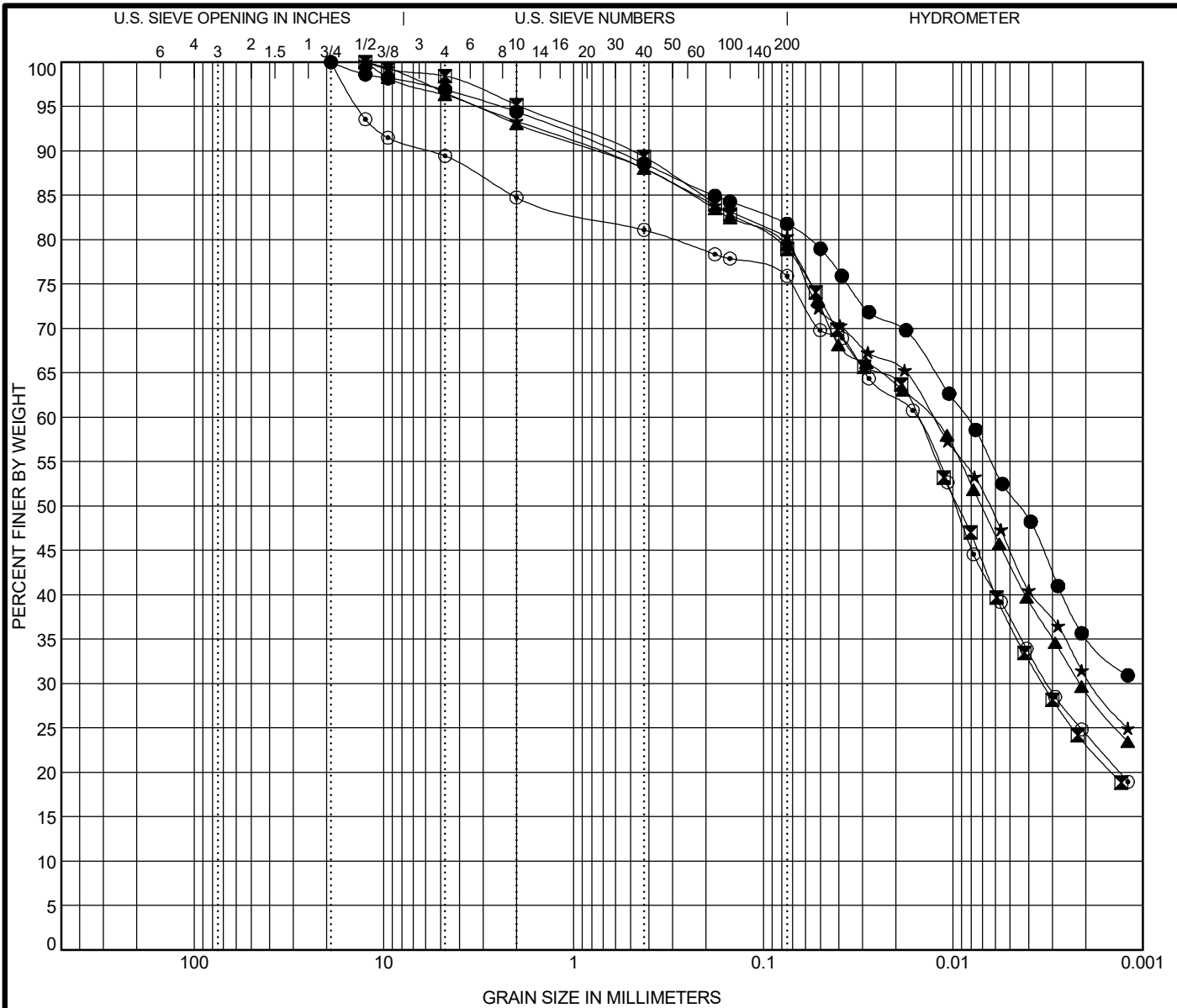
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification				LL	PL	PI	Cc	Cu
●	02-ST-06#3 33.0 ft	Clay				37	17	20		
■	0589-B-01#8 58.5 ft	Silty Clay Loam				28	15	13		
▲	0589-B-03#12 28.5 ft	Silty Clay				34	16	18		
★	08-RWB-01#8 18.5 ft	Silty Clay				36	17	19		
⊙	08-RWB-02#11 38.5 ft	Gravelly Silty Clay Loam				32	17	15		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	02-ST-06#3 33.0 ft	19	0.009			5.6	12.7	46.4	35.3	
■	0589-B-01#8 58.5 ft	12.5	0.016	0.003		4.8	16.4	55.6	23.2	
▲	0589-B-03#12 28.5 ft	12.5	0.013	0.002		7.0	13.9	50.1	29.1	
★	08-RWB-01#8 18.5 ft	12.5	0.013	0.002		6.6	13.3	49.2	30.9	
⊙	08-RWB-02#11 38.5 ft	19	0.016	0.003		15.2	9.0	51.4	24.3	

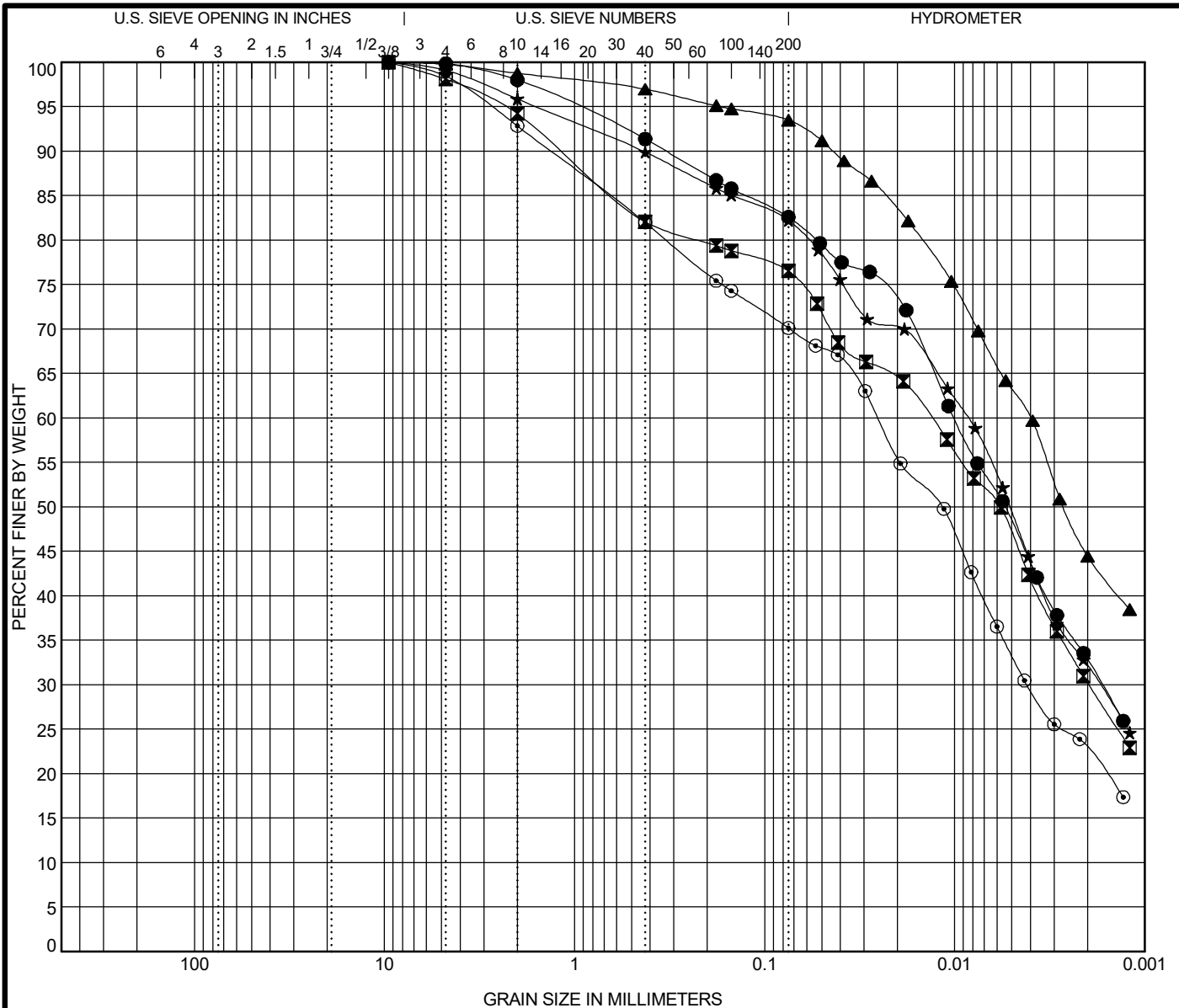
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification					LL	PL	PI	Cc	Cu
●	1088-B-02#11 26.0 ft	Silty Clay					34	15	19		
☒	1165-B-01B#13 33.5 ft	Clay					35	15	20		
▲	1165-B-01B#19 63.5 ft	Clay					40	16	24		
★	1165-B-02#6 13.5 ft	Silty Clay					36	15	21		
◎	1165-B-02#18 58.5 ft	Silty Clay Loam					29	14	15		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	1088-B-02#11 26.0 ft	9.5	0.01	0.002		2.0	15.5	49.7	32.8		
☒	1165-B-01B#13 33.5 ft	9.5	0.013	0.002		5.8	17.8	46.1	30.3		
▲	1165-B-01B#19 63.5 ft	9.5	0.004			1.2	5.3	49.0	44.5		
★	1165-B-02#6 13.5 ft	9.5	0.008	0.002		4.1	13.8	50.0	32.1		
◎	1165-B-02#18 58.5 ft	9.5	0.025	0.004		7.2	22.8	47.3	22.7		

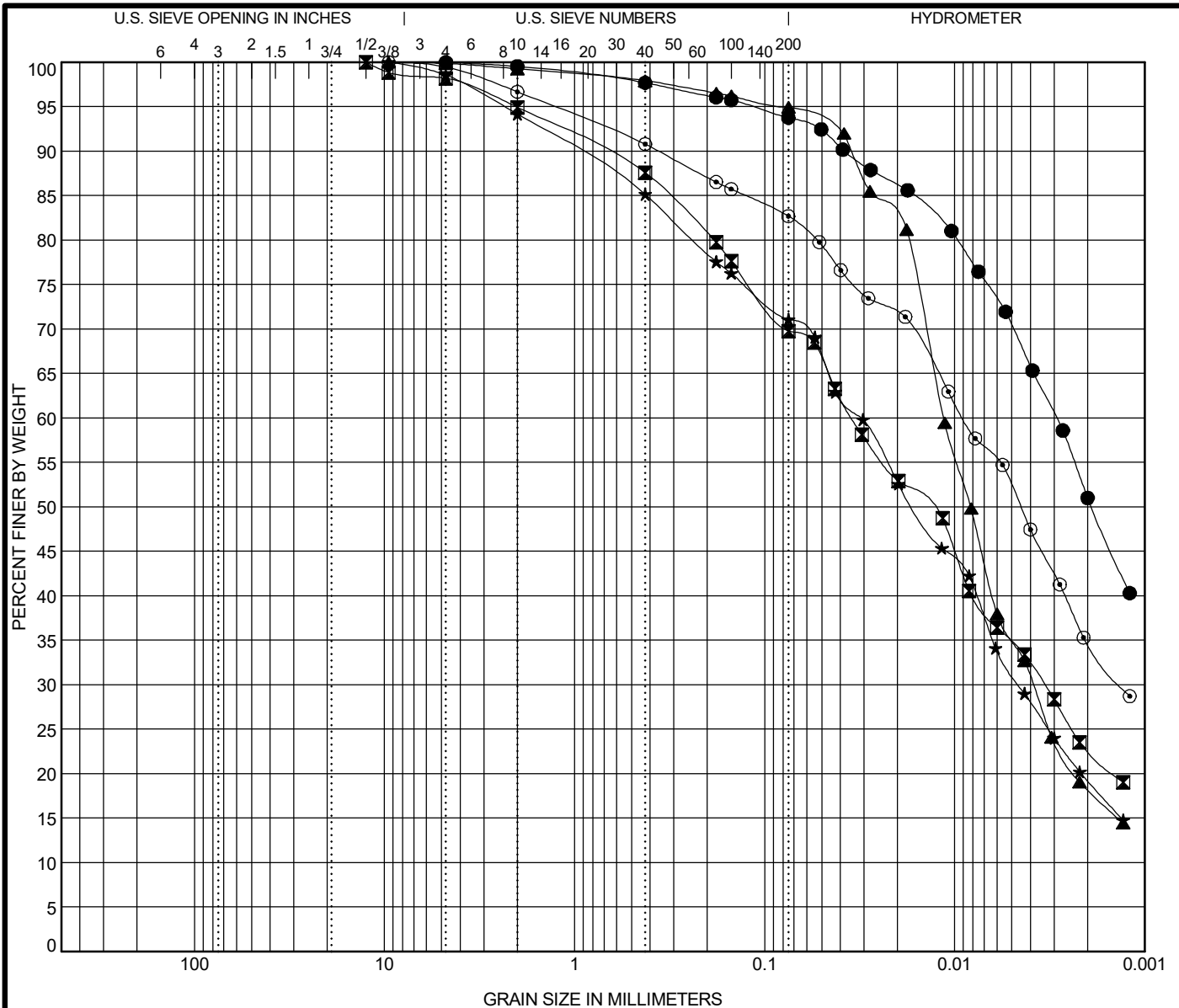
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

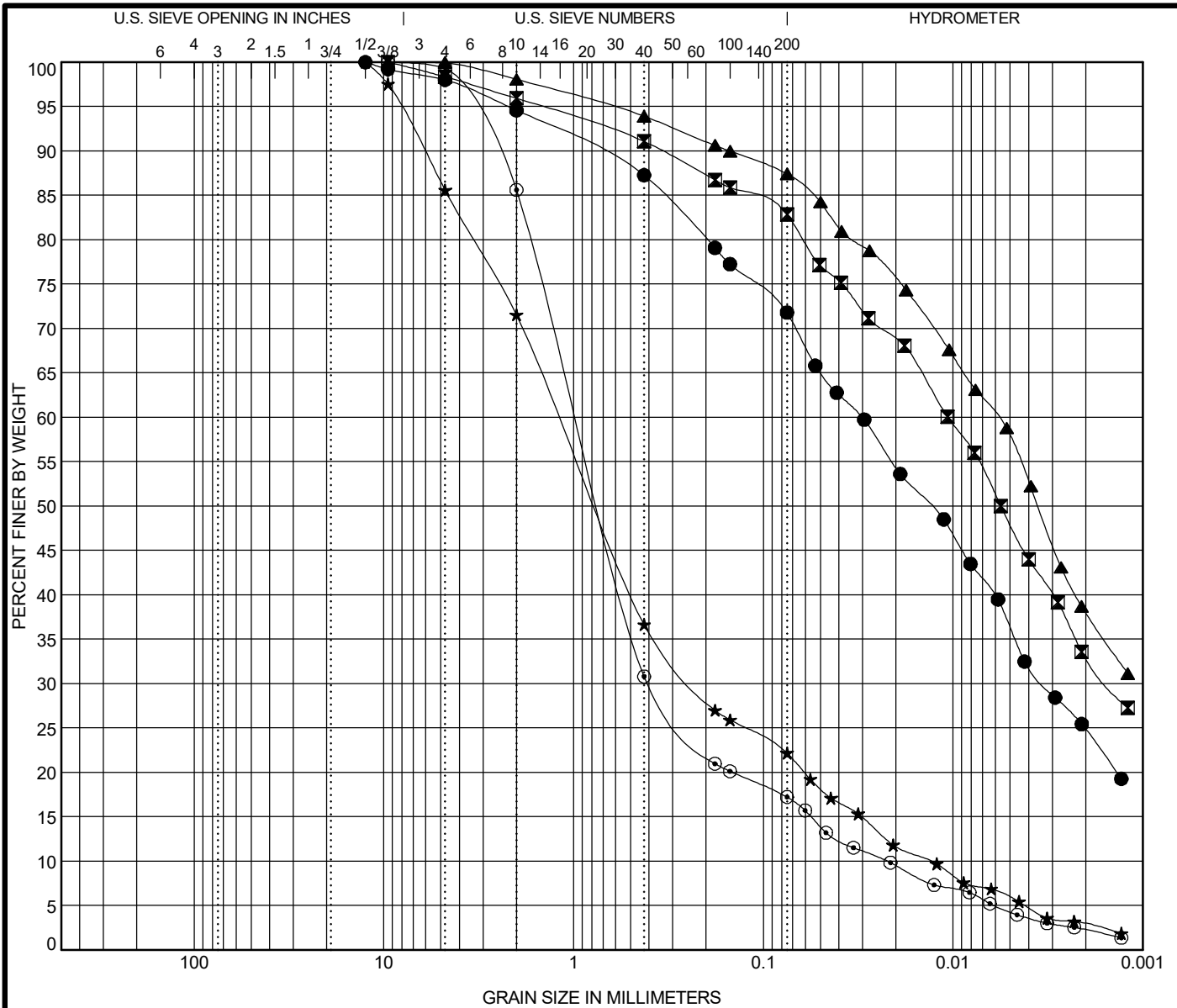
Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	14-RWB-02#14	38.5 ft	Clay					41	18	23		
■	14-RWB-03#16	48.5 ft	Clay Loam					26	15	11		
▲	16-RWB-01B#15	43.5 ft	Silty Loam					26	20	6		
★	16-RWB-02#15	43.5 ft	Silty Clay Loam					25	16	9		
⊙	16-RWB-04B#10	23.5 ft	Clay					34	18	16		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	14-RWB-02#14	38.5 ft	4.75	0.003			0.5	5.8	42.7	51.0		
■	14-RWB-03#16	48.5 ft	12.5	0.035	0.003		5.1	25.2	47.0	22.7		
▲	16-RWB-01B#15	43.5 ft	9.5	0.011	0.004		0.7	4.4	76.7	18.2		
★	16-RWB-02#15	43.5 ft	9.5	0.031	0.005		5.8	23.2	51.8	19.2		
⊙	16-RWB-04B#10	23.5 ft	9.5	0.009	0.001		3.3	14.1	47.9	34.7		



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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

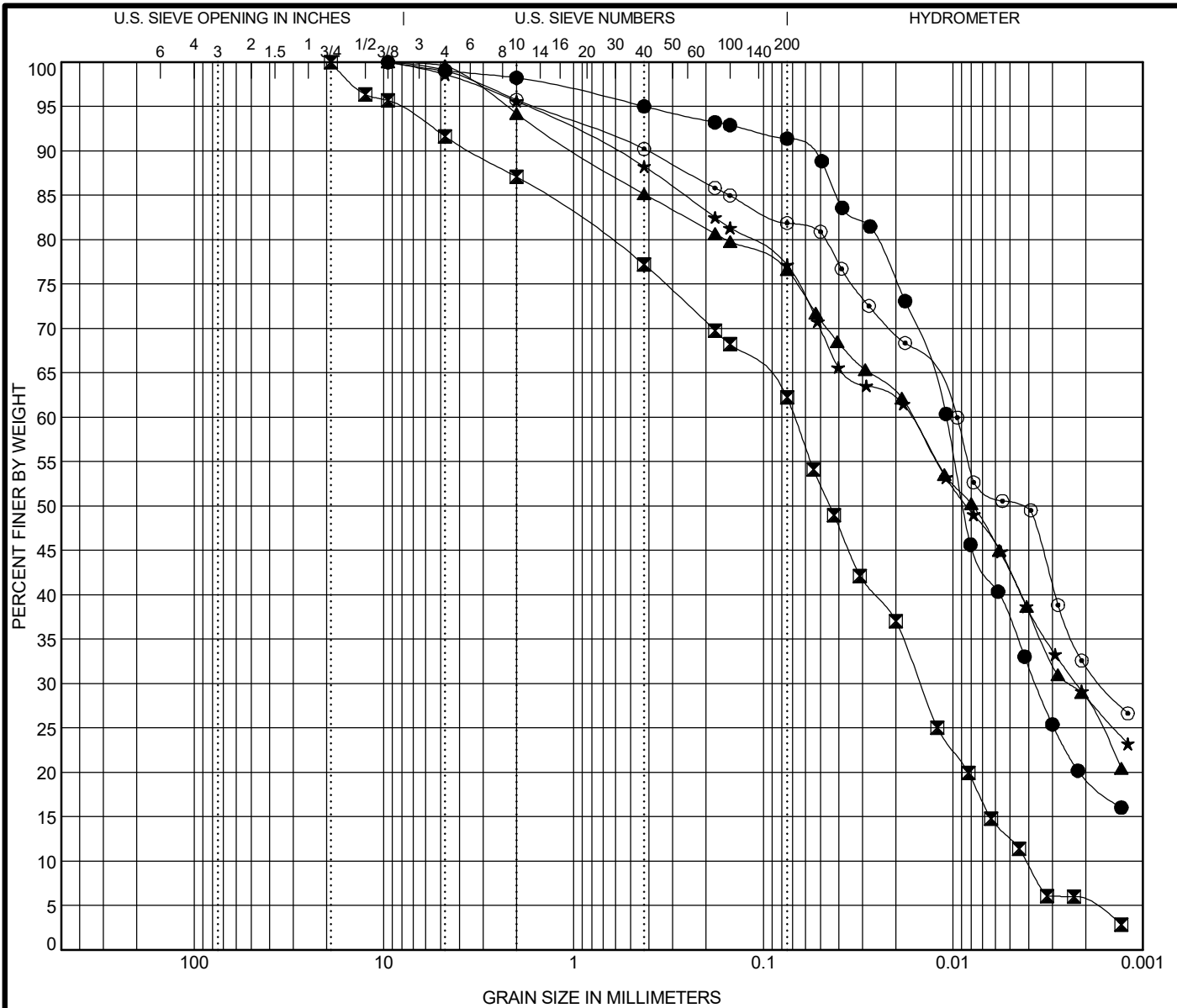
Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	1702-B-01#9	21.0 ft	Clay Loam					28	14	14		
☒	1702-B-03#9	63.5 ft	Silty Clay					34	17	17		
▲	1705-B-02#13	33.5 ft	Silty Clay					38	16	22		
★	1705-B-02#19	63.5 ft	Gravelly Sandy Loam					NP	NP	NP	3.51	91.06
◎	1705-B-02#22	78.5 ft	Sand					NP	NP	NP	7.24	43.38
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	1702-B-01#9	21.0 ft	12.5	0.03	0.003		5.4	23.0	46.7	24.8		
☒	1702-B-03#9	63.5 ft	9.5	0.011	0.002		4.1	13.2	49.7	33.0		
▲	1705-B-02#13	33.5 ft	9.5	0.006			1.9	10.7	49.3	38.0		
★	1705-B-02#19	63.5 ft	12.5	1.198	0.235	0.013	28.5	49.5	19.2	2.9		
◎	1705-B-02#22	78.5 ft	9.5	0.97	0.396	0.022	14.4	68.5	14.9	2.2		



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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification				LL	PL	PI	Cc	Cu
●	1705-B-03#16 48.5 ft	Silty Loam				28	14	14		
■	1705-B-04#21 73.5 ft	Silty Loam				18	14	4	0.79	16.68
▲	1705-B-05#7 16.0 ft	Silty Clay Loam				35	15	20		
★	1705-B-05A#1 10.0 ft	Silty Clay Loam				31	17	14		
◎	1705-B-05A#2 16.0 ft	Silty Clay				34	17	17		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	1705-B-03#16 48.5 ft	9.5	0.011	0.004		1.8	6.9	71.9	19.4	
■	1705-B-04#21 73.5 ft	19	0.069	0.015	0.004	12.9	25.2	56.7	5.2	
▲	1705-B-05#7 16.0 ft	9.5	0.016	0.002		5.8	17.8	48.3	28.1	
★	1705-B-05A#1 10.0 ft	9.5	0.017	0.002		4.4	18.7	48.3	28.6	
◎	1705-B-05A#2 16.0 ft	9.5	0.01	0.002		4.2	13.9	49.8	32.1	

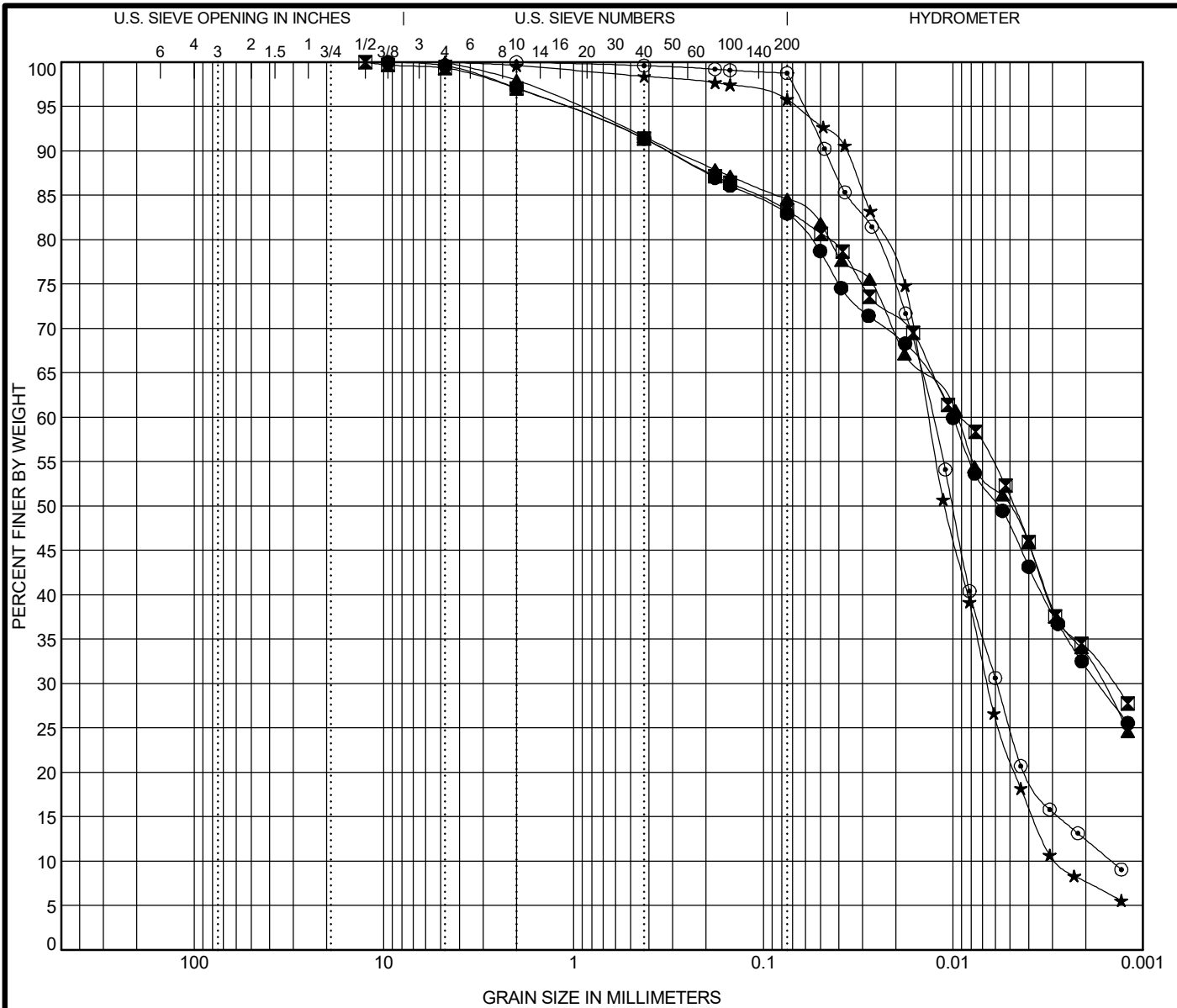


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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification					LL	PL	PI	Cc	Cu
●	1705-B-05A# 16.5 ft	Silty Clay					32	17	15		
☒	1705-B-05A#3 25.0 ft	Silty Clay					33	17	16		
▲	1705-B-07#12 28.5 ft	Silty Clay					38	17	21		
★	1705-B-07#23 83.5 ft	Silt					NP	NP	NP	1.14	4.74
⊙	1705-B-08#22 78.5 ft	Silt					NP	NP	NP	1.82	8.81
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	1705-B-05A# 16.5 ft	9.5	0.01	0.002		2.9	14.3	50.9	31.9		
☒	1705-B-05A#3 25.0 ft	12.5	0.009	0.001		2.9	13.8	49.3	33.9		
▲	1705-B-07#12 28.5 ft	4.75	0.009	0.002		2.0	13.4	51.3	33.2		
★	1705-B-07#23 83.5 ft	4.75	0.013	0.007	0.003	0.4	3.9	88.1	7.7		
⊙	1705-B-08#22 78.5 ft	2	0.013	0.006	0.001	0.0	1.5	86.1	12.4		

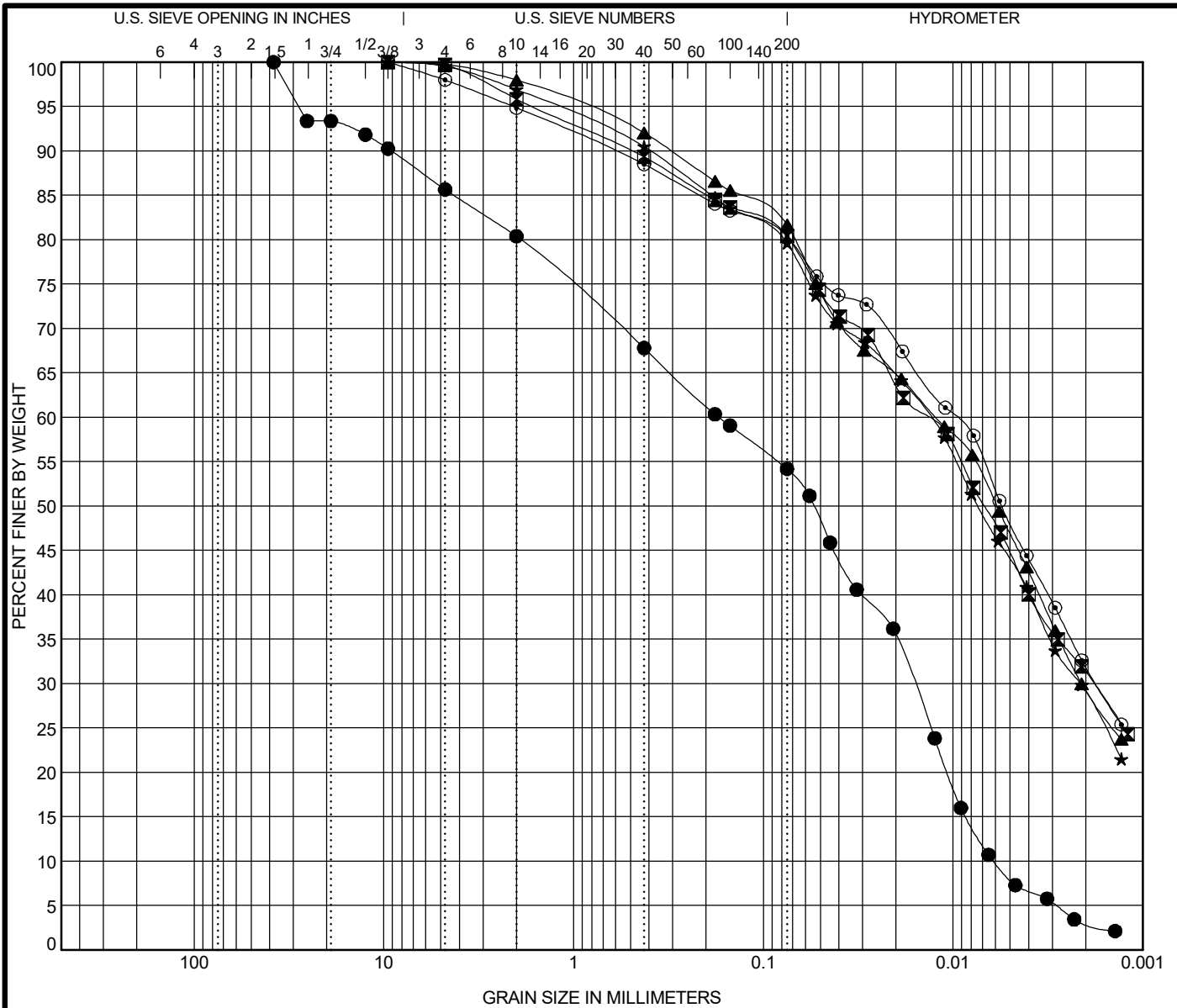


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		coarse	fine	

Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	1706-B-01#23	83.5 ft	Gravelly Silty Loam					NP	NP	NP	0.25	28.20
☒	1706-B-02#8	18.5 ft	Silty Clay					34	17	17		
▲	1710-B-03#2	3.5 ft	Silty Clay Loam					32	19	13		
★	1710-B-03#6	13.5 ft	Silty Clay Loam					33	18	15		
⊙	1710-B-03#13	33.5 ft	Silty Clay					34	18	16		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	1706-B-01#23	83.5 ft	38.1	0.171	0.016	0.006	19.6	26.3	51.0	3.1		
☒	1706-B-02#8	18.5 ft	9.5	0.014	0.002		4.2	15.6	49.0	31.3		
▲	1710-B-03#2	3.5 ft	9.5	0.012	0.002		2.0	16.6	52.1	29.3		
★	1710-B-03#6	13.5 ft	9.5	0.013	0.002		3.1	17.5	50.4	29.0		
⊙	1710-B-03#13	33.5 ft	9.5	0.01	0.002		5.2	14.6	48.4	31.9		

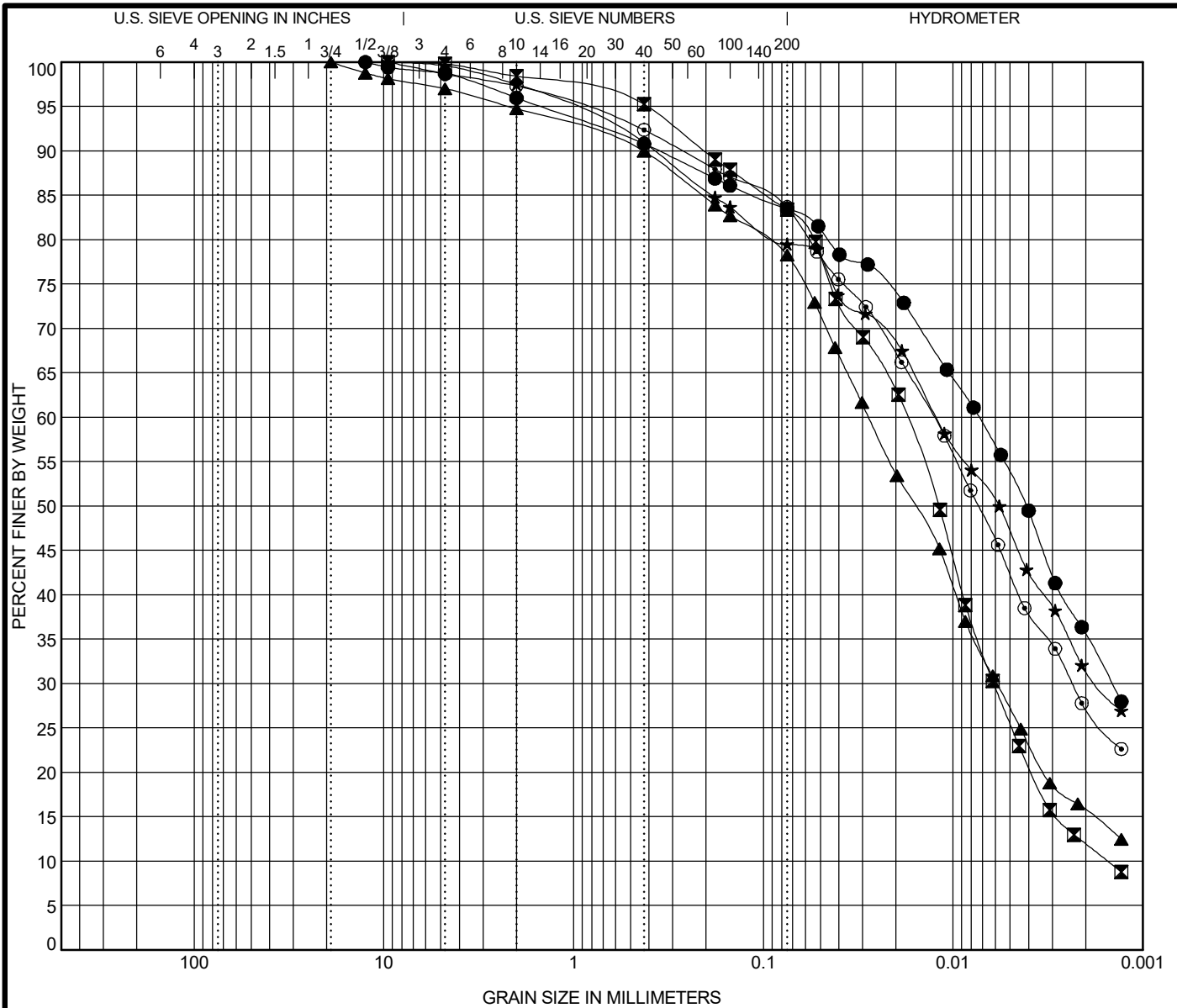
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		coarse	fine	

Specimen Identification		IDH Classification					LL	PL	PI	Cc	Cu
●	1710-B-03#16 48.5 ft	Clay					34	18	16		
☒	1710-B-03#20 68.5 ft	Silty Loam					20	16	4	1.39	11.46
▲	1710-B-03#23 83.5 ft	Silty Loam					23	15	8		
★	1710-B-04#5 11.0 ft	Clay					33	17	16		
◎	1710-B-04#9 21.0 ft	Silty Clay Loam					29	16	13		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	1710-B-03#16 48.5 ft	12.5	0.007	0.001		4.0	12.6	47.9	35.5		
☒	1710-B-03#20 68.5 ft	9.5	0.018	0.006	0.002	1.6	15.1	71.3	11.9		
▲	1710-B-03#23 83.5 ft	19	0.028	0.006		5.2	16.7	62.3	15.7		
★	1710-B-04#5 11.0 ft	9.5	0.012	0.002		2.5	18.0	47.9	31.6		
◎	1710-B-04#9 21.0 ft	9.5	0.013	0.002		2.7	13.8	56.2	27.3		

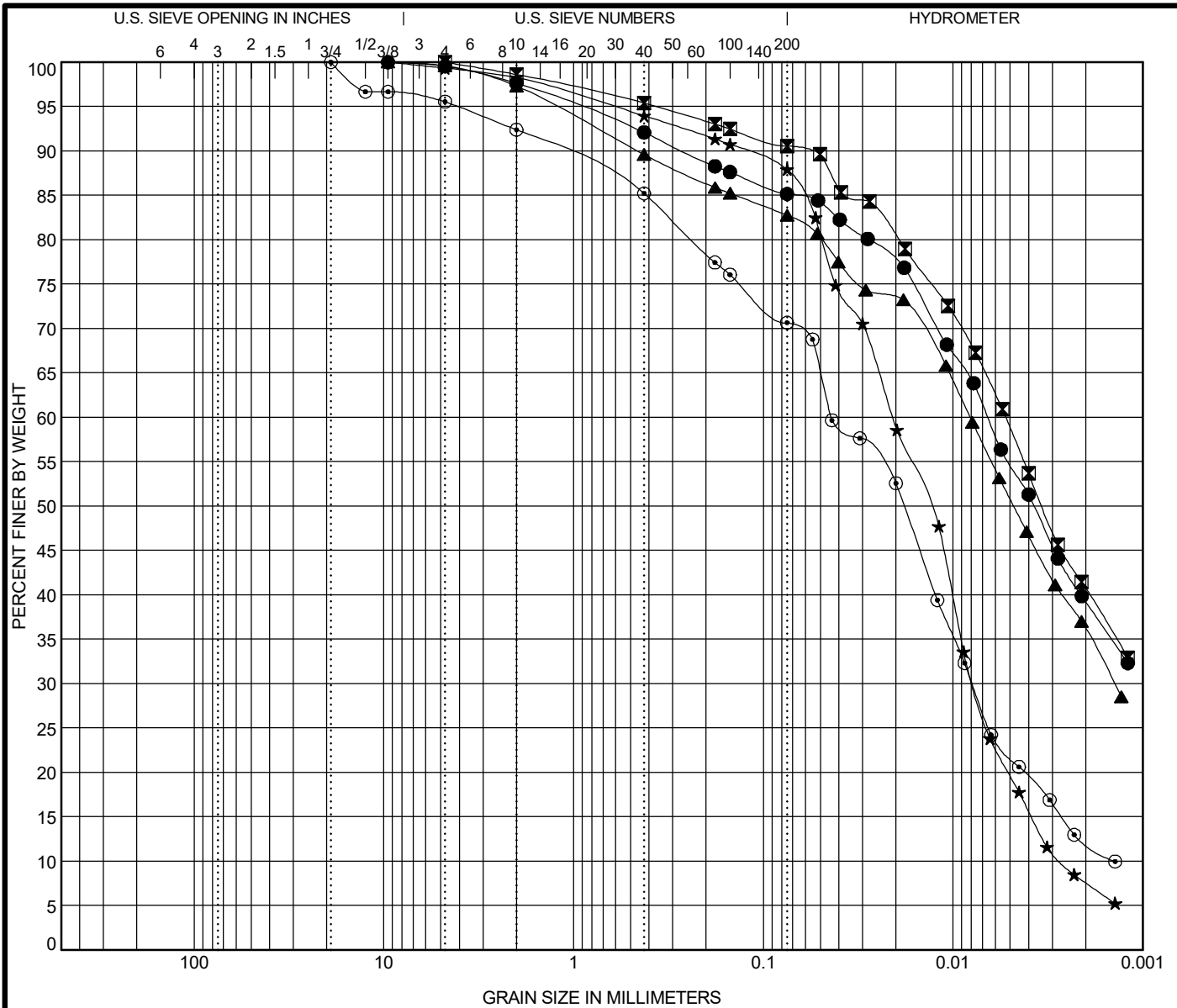
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● 1710-B-04#15 43.5 ft	Clay	35	18	17		
☒ 1710-B-04#17 53.5 ft	Silty Clay	36	18	18		
▲ 1710-B-04#18 58.5 ft	Clay	35	18	17		
★ 1710-B-04#20 68.5 ft	Silt	21	19	2	1.09	7.70
◎ 1710-B-04#23 83.5 ft	Silty Loam	20	14	6	1.02	31.14

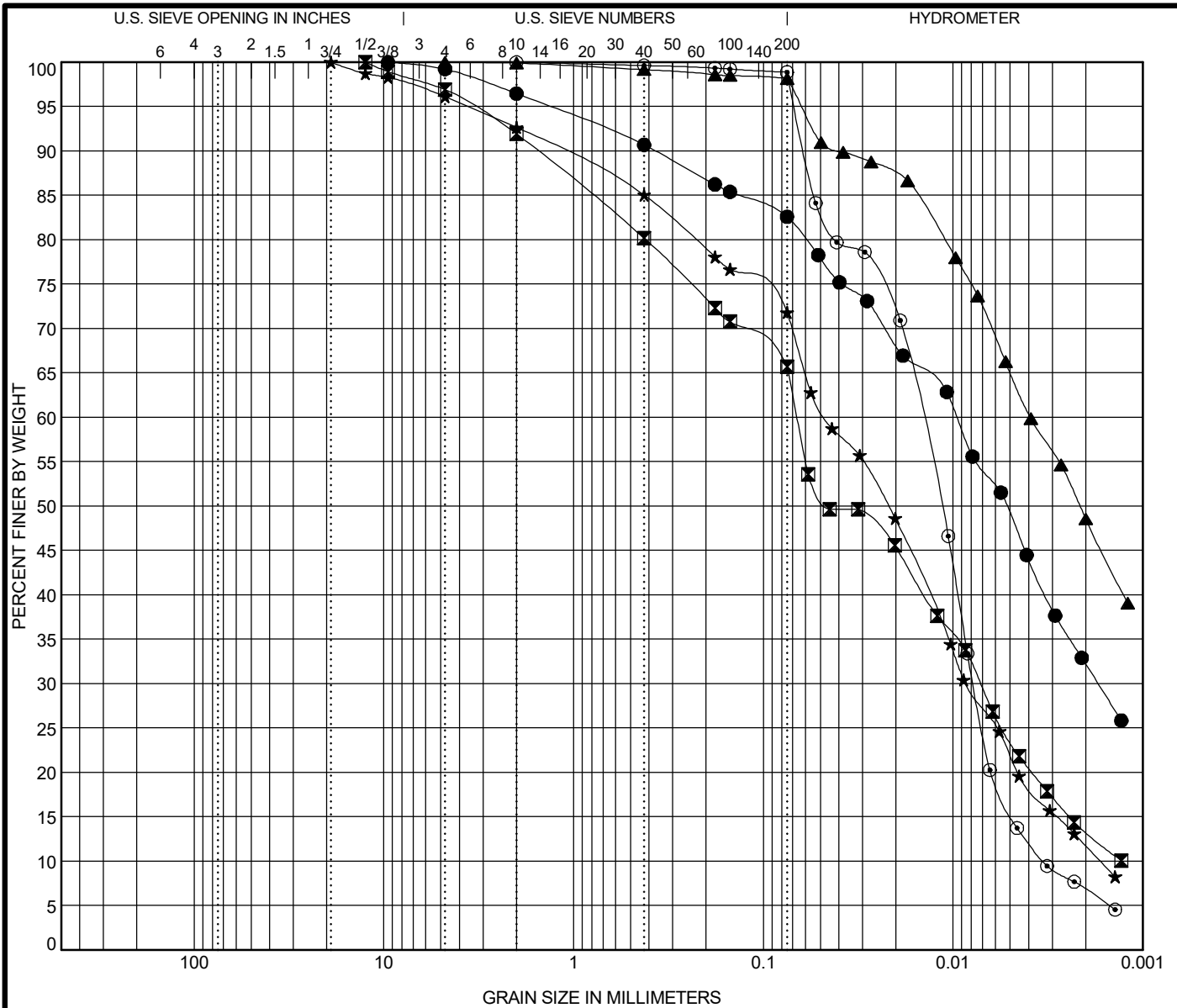
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 1710-B-04#15 43.5 ft	9.5	0.007			2.4	12.5	45.9	39.2
☒ 1710-B-04#17 53.5 ft	4.75	0.005			1.4	8.1	49.8	40.7
▲ 1710-B-04#18 58.5 ft	9.5	0.008	0.001		2.7	14.6	46.6	36.1
★ 1710-B-04#20 68.5 ft	9.5	0.021	0.008	0.003	1.7	10.5	80.1	7.6
◎ 1710-B-04#23 83.5 ft	19	0.044	0.008	0.001	7.6	21.8	58.4	12.1



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 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01

WEI GRAIN SIZE IDH 11000401.GPJ US LAB.GDT 7/25/19



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● 1712-B-02#9 21.0 ft	Silty Clay	35	18	17		
☒ 1712-B-02#15 43.5 ft	Silty Loam	27	16	11		
▲ 1712-B-02#17 53.5 ft	Clay	36	19	17		
★ 1712-B-02#20 68.5 ft	Silty Loam	19	14	5	0.92	28.12
⊙ 1712-B-02#23 83.5 ft	Silt	NP	NP	NP	1.25	4.36

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 1712-B-02#9 21.0 ft	9.5	0.01	0.002		3.5	14.0	50.3	32.2
☒ 1712-B-02#15 43.5 ft	12.5	0.066	0.007		8.1	26.9	51.7	13.3
▲ 1712-B-02#17 53.5 ft	4.75	0.004			0.1	2.0	49.4	48.5
★ 1712-B-02#20 68.5 ft	19	0.047	0.009	0.002	7.4	21.3	59.7	11.7
⊙ 1712-B-02#23 83.5 ft	2	0.015	0.008	0.003	0.0	1.7	91.5	6.8

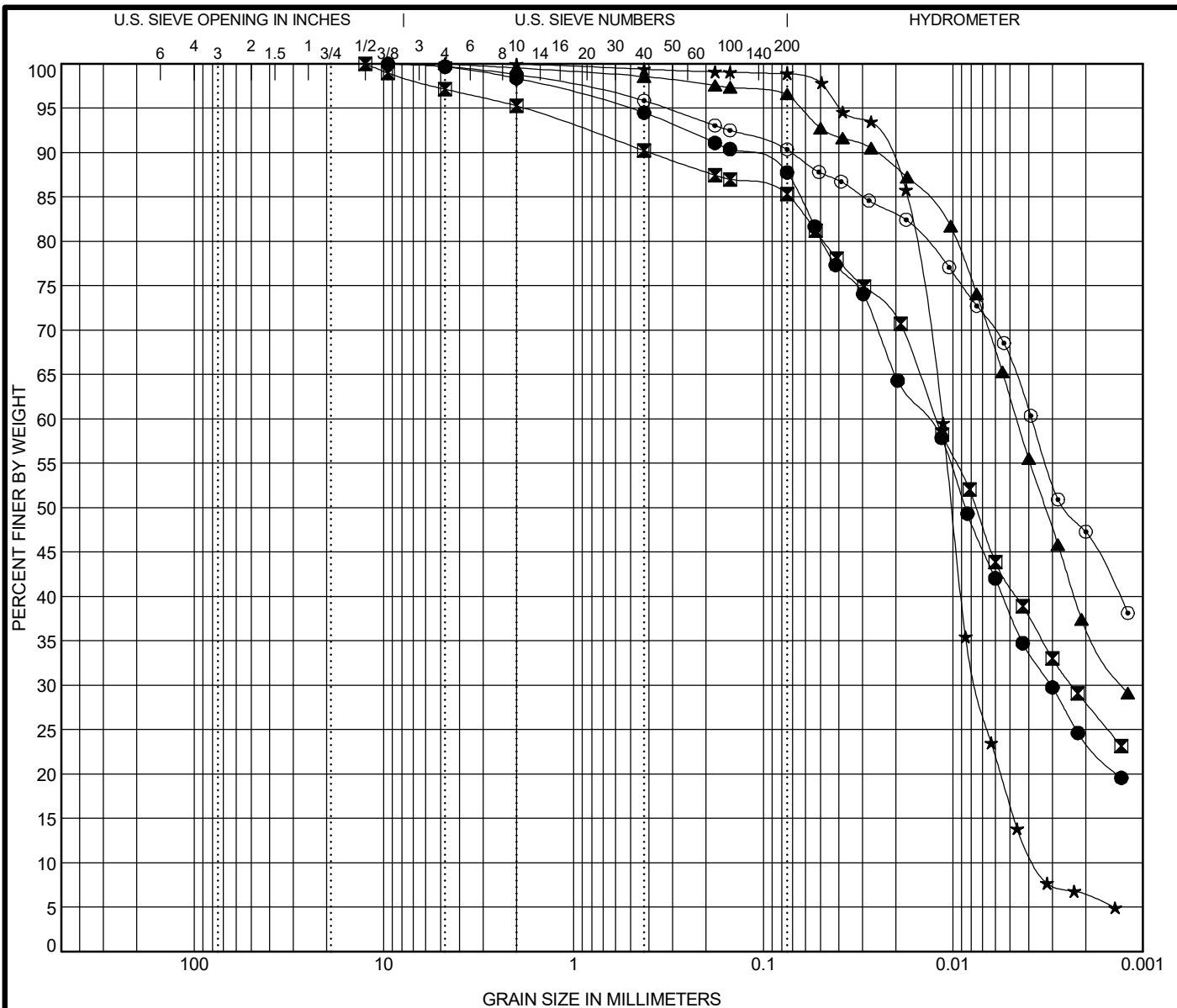


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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

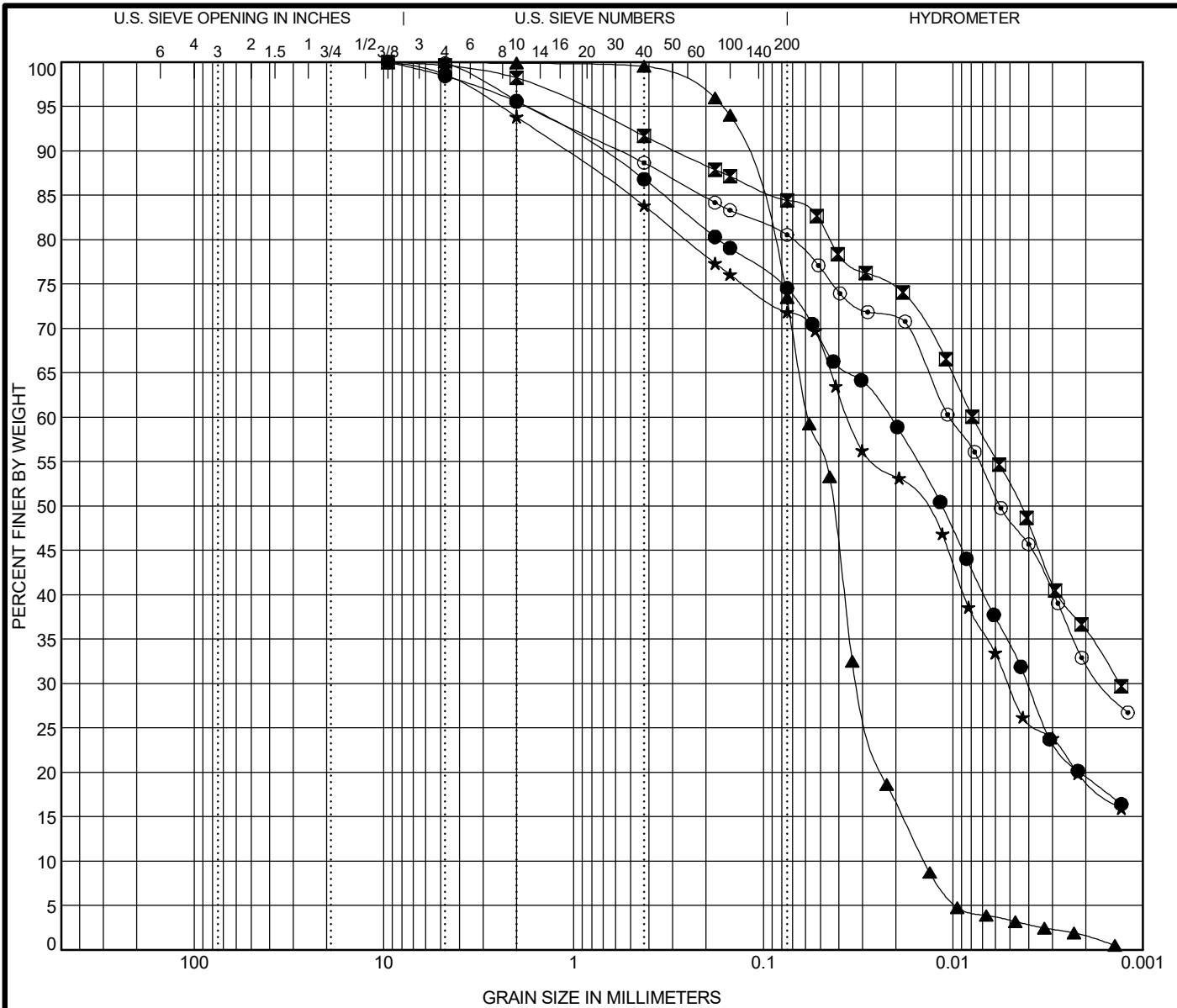
Specimen Identification		IDH Classification					LL	PL	PI	Cc	Cu
●	1715-B-01#21 73.5 ft	Silty Clay Loam					29	16	13		
☒	1715-B-01#24 88.5 ft	Silty Clay Loam					29	16	13		
▲	1715-B-03#16 48.5 ft	Silty Clay					36	18	18		
★	1715-B-03#23 83.5 ft	Silt					NP	NP	NP	1.33	3.11
◎	2054-B-01#6 13.5 ft	Clay					42	19	23		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	1715-B-01#21 73.5 ft	9.5	0.014	0.003		1.6	10.8	63.8	23.7		
☒	1715-B-01#24 88.5 ft	12.5	0.012	0.002		4.7	10.1	57.2	28.0		
▲	1715-B-03#16 48.5 ft	4.75	0.005	0.001		0.5	3.1	59.8	36.7		
★	1715-B-03#23 83.5 ft	4.75	0.011	0.007	0.004	0.1	1.1	92.6	6.3		
◎	2054-B-01#6 13.5 ft	9.5	0.004			1.2	8.5	43.0	47.3		

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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	2054-B-02#15	43.5 ft	Silty Clay Loam					27	16	11		
☒	2054-B-03#13	33.5 ft	Clay					37	19	18		
▲	2054-B-03#23	83.5 ft	Silty Loam					NP	NP	NP	1.21	4.08
★	2055-B-02#23	83.5 ft	Silty Clay Loam					26	14	12		
⊙	2055-B-04#7	16.0 ft	Silty Clay					35	15	20		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	2054-B-02#15	43.5 ft	9.5	0.022	0.004		4.4	21.2	54.9	19.5		
☒	2054-B-03#13	33.5 ft	9.5	0.008	0.001		1.8	13.8	48.4	35.9		
▲	2054-B-03#23	83.5 ft	4.75	0.058	0.032	0.014	0.1	27.1	71.3	1.5		
★	2055-B-02#23	83.5 ft	9.5	0.036	0.005		6.2	22.1	52.6	19.1		
⊙	2055-B-04#7	16.0 ft	9.5	0.01	0.002		4.3	15.2	48.0	32.4		

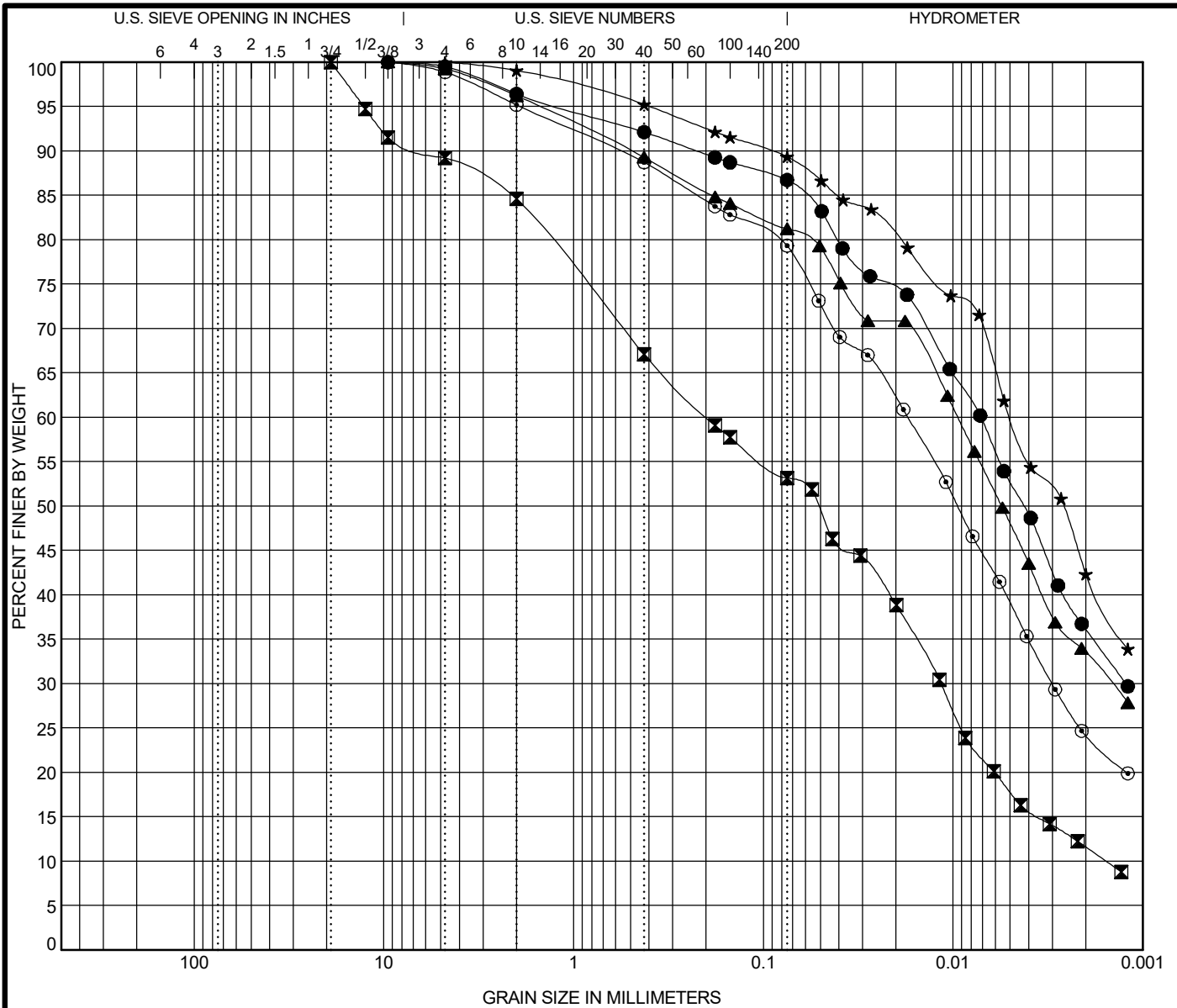
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● 2055-B-04#14 38.5 ft	Silty Clay	35	15	20		
☒ 2055-B-04#15 43.5 ft	Gravelly Loam	22	13	9	0.43	127.28
▲ 2055-B-05#6 13.5 ft	Clay	35	15	20		
★ 2055-B-05#14 38.5 ft	Clay	38	16	22		
⊙ 20-RWB-01#7 16.0 ft	Silty Clay Loam	31	16	15		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 2055-B-04#14 38.5 ft	9.5	0.007	0.001		3.6	9.8	50.5	36.1
☒ 2055-B-04#15 43.5 ft	19	0.199	0.012	0.002	15.4	31.5	41.5	11.6
▲ 2055-B-05#6 13.5 ft	9.5	0.009	0.001		3.8	15.1	47.7	33.4
★ 2055-B-05#14 38.5 ft	9.5	0.005			0.9	9.8	46.9	42.3
⊙ 20-RWB-01#7 16.0 ft	9.5	0.017	0.003		4.8	16.1	54.8	24.3

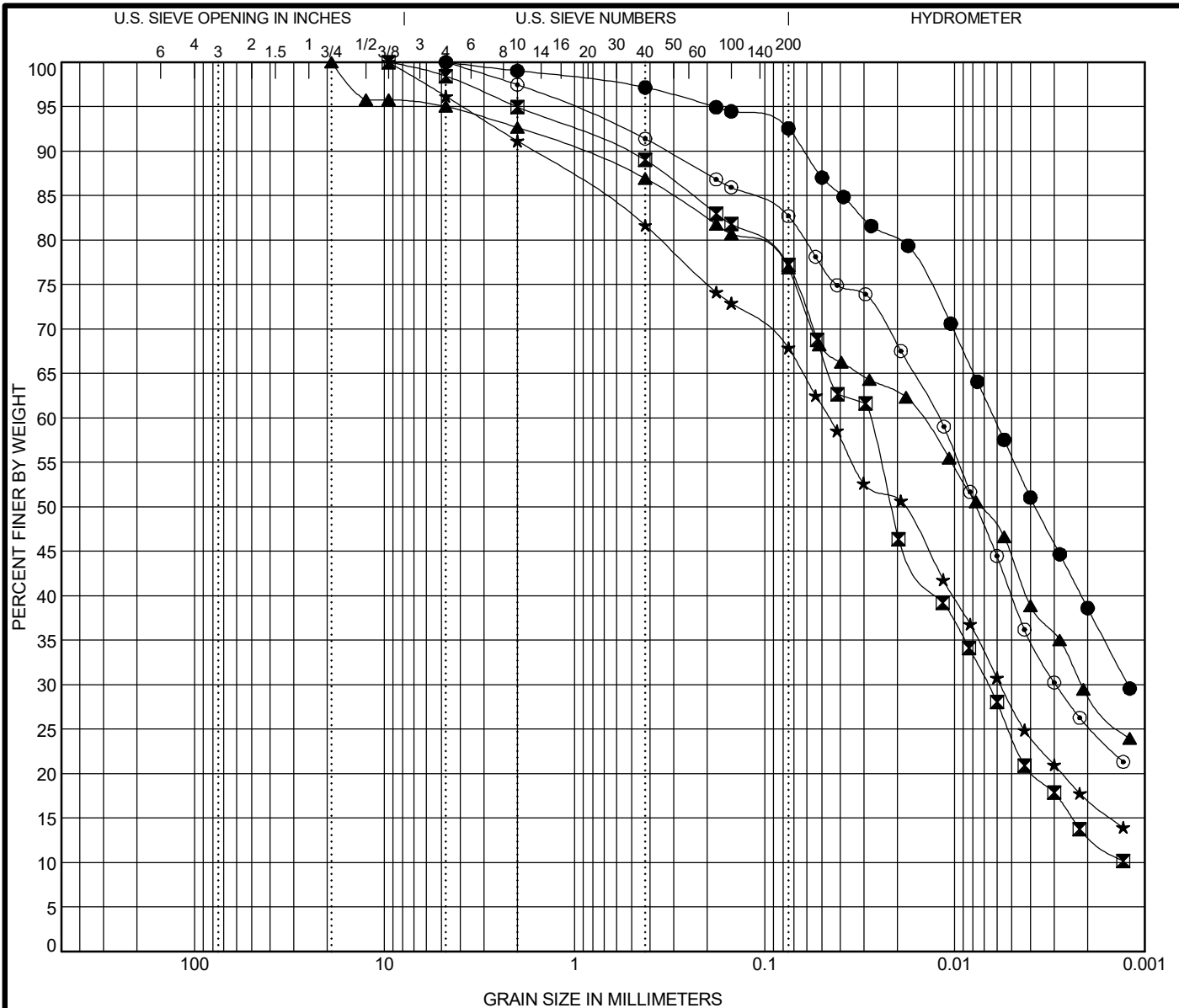


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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	20-RWB-01#16	48.5 ft	Silty Clay					35	18	17		
☒	21-RWB-02#24	89.0 ft	Silty Loam					22	14	8		
▲	21-RWB-04#10	23.5 ft	Silty Clay					34	17	17		
★	21-RWB-05#18	58.5 ft	Silty Loam					25	15	10		
◎	22-RWB-03#6	13.5 ft	Silty Clay Loam					32	18	14		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	20-RWB-01#16	48.5 ft	4.75	0.006	0.001		1.0	6.7	53.8	38.6		
☒	21-RWB-02#24	89.0 ft	9.5	0.028	0.007		5.0	18.1	63.8	13.1		
▲	21-RWB-04#10	23.5 ft	19	0.015	0.002		7.3	16.1	47.5	29.0		
★	21-RWB-05#18	58.5 ft	9.5	0.046	0.006		8.8	23.5	50.6	17.1		
◎	22-RWB-03#6	13.5 ft	4.75	0.012	0.003		2.5	15.0	57.1	25.4		

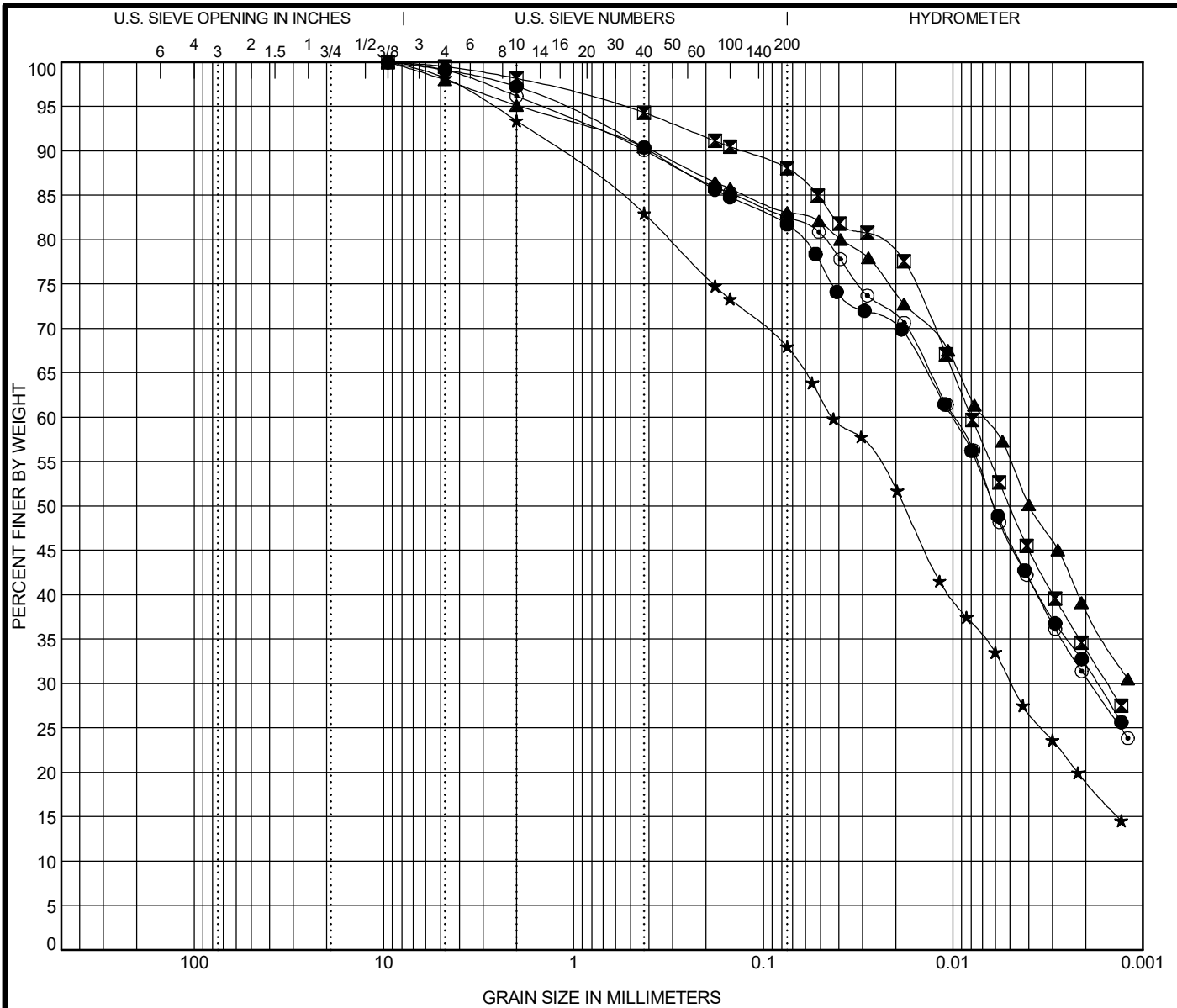
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	22-RWB-03#13	33.5 ft	Silty Clay					33	18	15		
☒	22-RWB-03#18	58.5 ft	Silty Clay					35	18	17		
▲	23-RWB-03#12	28.5 ft	Clay					36	17	19		
★	23-RWB-03#15	43.5 ft	Silty Clay Loam					25	16	9		
◎	24-RWB-03#8	18.5 ft	Silty Clay					32	17	15		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	22-RWB-03#13	33.5 ft	9.5	0.01	0.002		2.7	15.7	49.6	32.0		
☒	22-RWB-03#18	58.5 ft	9.5	0.008	0.002		1.8	10.2	54.1	33.9		
▲	23-RWB-03#12	28.5 ft	9.5	0.007			4.9	12.1	44.7	38.4		
★	23-RWB-03#15	43.5 ft	9.5	0.043	0.005		6.6	25.6	48.8	19.0		
◎	24-RWB-03#8	18.5 ft	9.5	0.01	0.002		3.8	13.7	51.7	30.7		

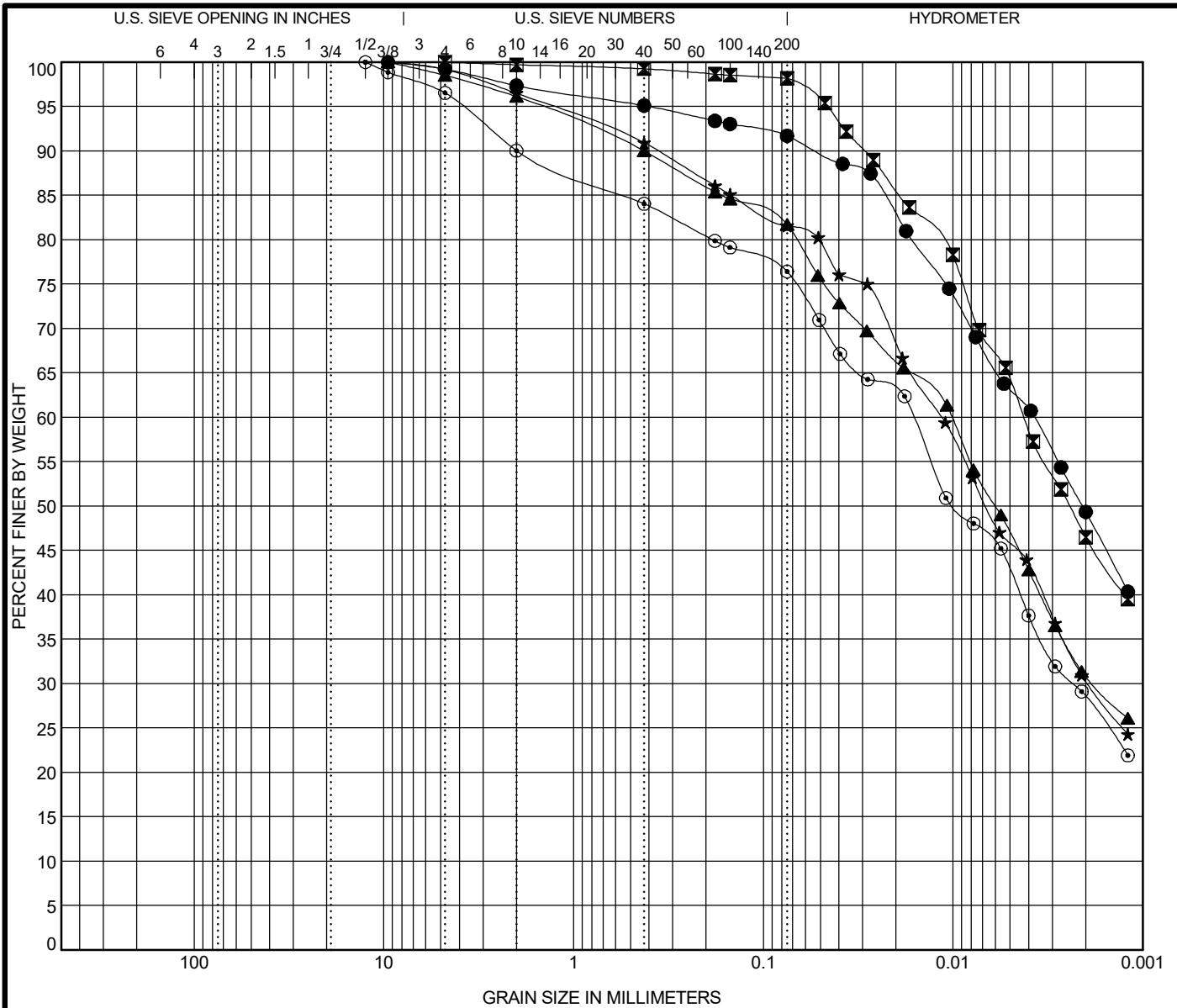
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	24-RWB-03#17	53.5 ft	Clay					42	18	24		
☒	27-RWB-02#18	58.5 ft	Silty Clay					41	19	22		
▲	27-RWB-03#10	23.5 ft	Silty Clay					34	16	18		
★	28-RWB-01#15	43.5 ft	Silty Clay					30	16	14		
◎	29-RWB-01#13	33.5 ft	Silty Clay					34	17	17		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	24-RWB-03#17	53.5 ft	9.5	0.004			2.6	5.7	42.3	49.3		
☒	27-RWB-02#18	58.5 ft	4.75	0.004			0.3	1.6	51.6	46.5		
▲	27-RWB-03#10	23.5 ft	9.5	0.01	0.002		3.9	14.6	50.6	30.9		
★	28-RWB-01#15	43.5 ft	9.5	0.011	0.002		3.5	15.0	51.2	30.4		
◎	29-RWB-01#13	33.5 ft	12.5	0.016	0.002		10.0	13.8	47.8	28.5		

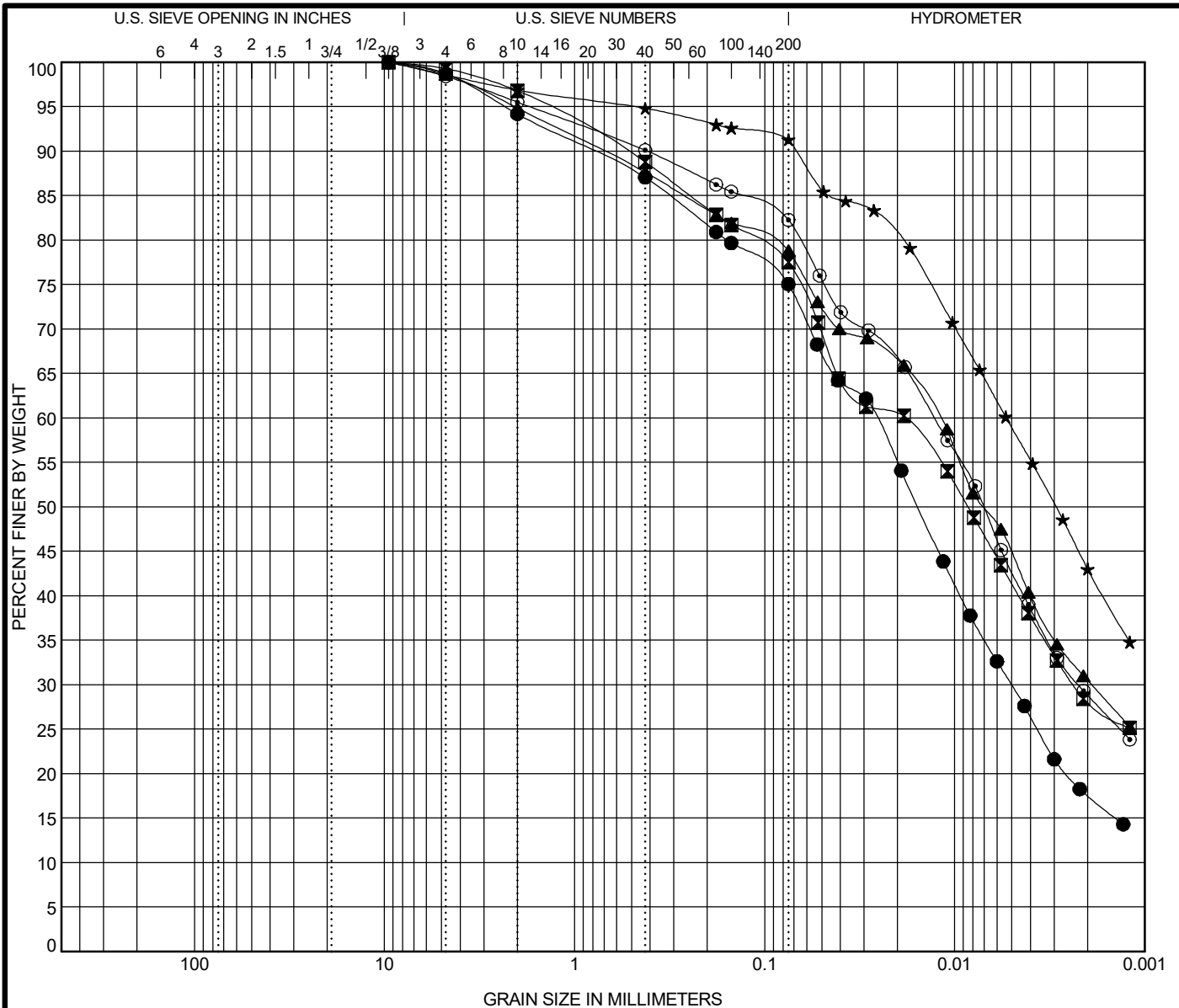
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

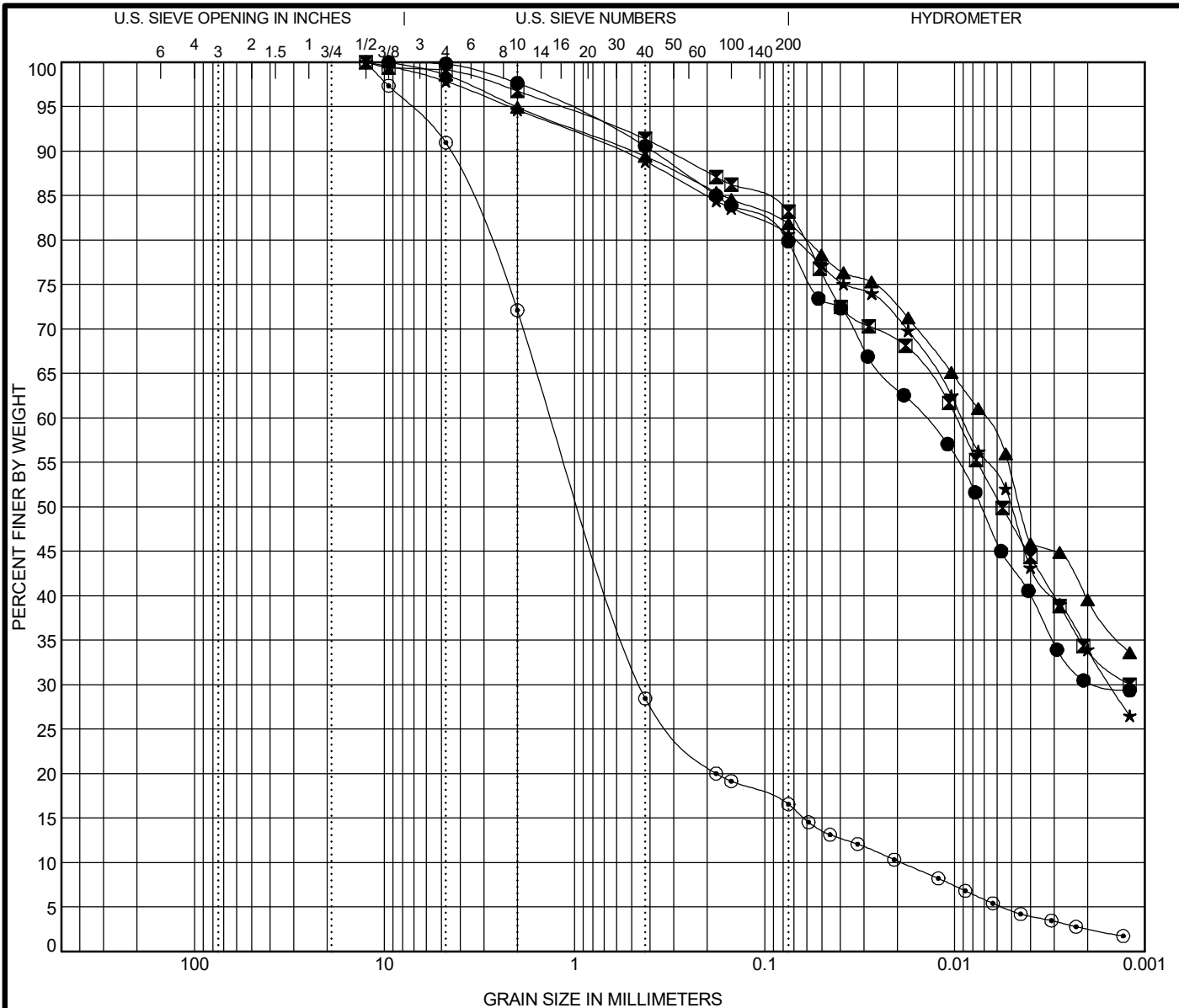
Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	29-RWB-01#18	58.5 ft	Silty Loam					24	14	10		
☒	30-RWB-03#1	13.5 ft	Silty Clay Loam					32	17	15		
▲	30-RWB-03#4	28.5 ft	Silty Clay					34	17	17		
★	31-RWB-01#17	53.5 ft	Clay					39	18	21		
◎	31-RWB-03#12	28.5 ft	Silty Clay					30	16	14		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	29-RWB-01#18	58.5 ft	9.5	0.026	0.005		5.8	19.4	57.2	17.6		
☒	30-RWB-03#1	13.5 ft	9.5	0.018	0.002		3.2	19.5	49.2	28.1		
▲	30-RWB-03#4	28.5 ft	9.5	0.012	0.002		5.1	16.3	48.1	30.5		
★	31-RWB-01#17	53.5 ft	9.5	0.005			3.1	5.7	48.1	43.0		
◎	31-RWB-03#12	28.5 ft	9.5	0.013	0.002		4.5	13.5	53.2	28.8		

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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification			IDH Classification					LL	PL	PI	Cc	Cu
●	32-RWB-03B#2	18.5 ft	Silty Clay					32	15	17		
☒	32-RWB-03B#5	33.5 ft	Silty Clay					33	16	17		
▲	33-RWB-02#9	21.0 ft	Clay					39	18	21		
★	BFB-01#6	13.5 ft	Clay					35	18	17		
⊙	BFB-01#21	63.5 ft	Gravelly Sandy Loam					NP	NP	NP	8.09	68.00
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	32-RWB-03B#2	18.5 ft	9.5	0.014	0.002		2.3	18.0	49.2	30.4		
☒	32-RWB-03B#5	33.5 ft	12.5	0.01			3.2	13.8	49.0	34.0		
▲	33-RWB-02#9	21.0 ft	9.5	0.007			5.1	13.2	42.2	39.5		
★	BFB-01#6	13.5 ft	12.5	0.009	0.002		5.3	14.1	46.6	33.9		
⊙	BFB-01#21	63.5 ft	12.5	1.301	0.449	0.019	27.9	55.7	13.9	2.5		

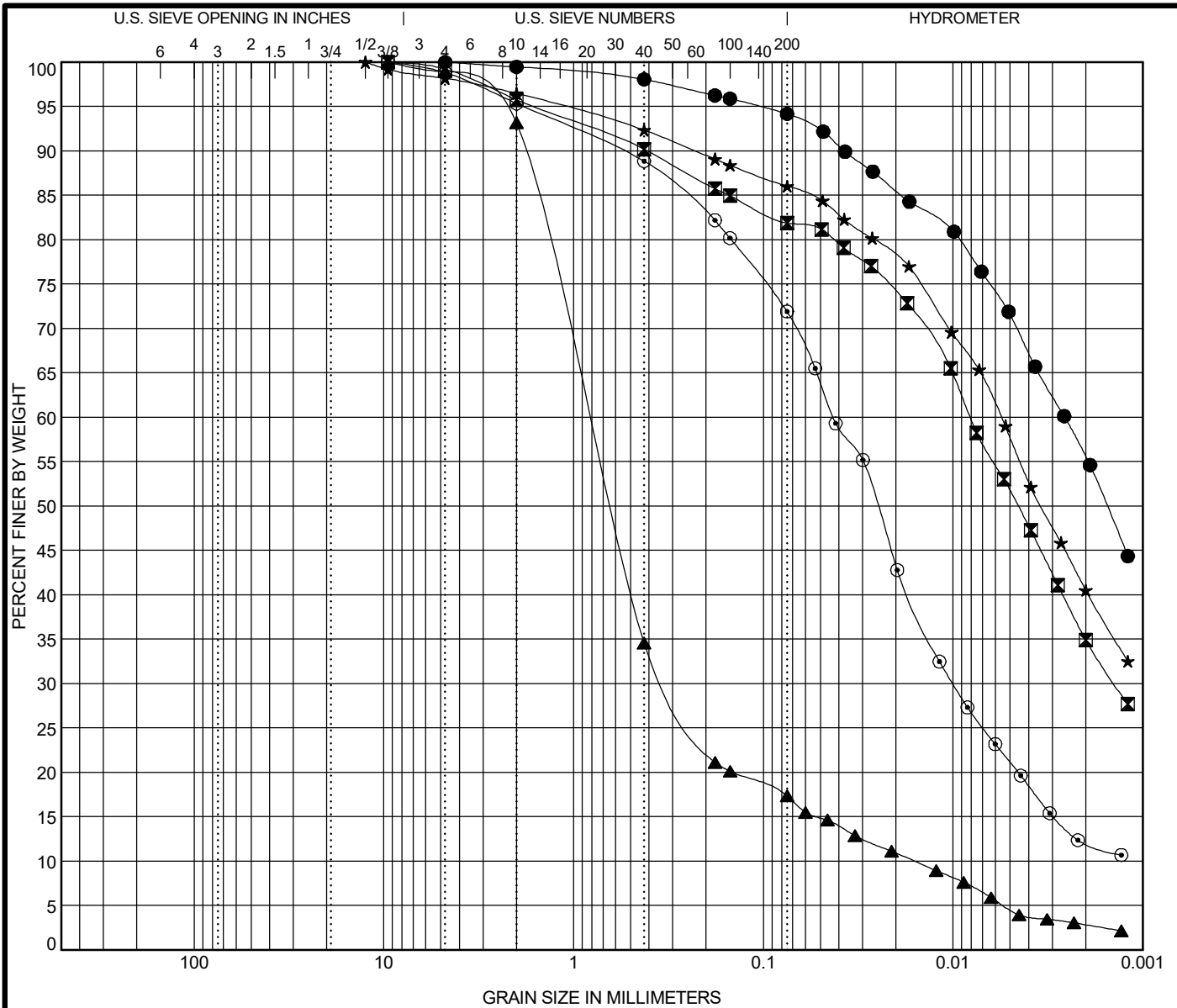


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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● BFB-02#2 3.5 ft	Clay	44	20	24		
☒ BFB-02#9 21.0 ft	Clay	35	18	17		
▲ BFB-02#21 63.5 ft	Sand	NP	NP	NP	7.55	52.02
★ BFB-03#13 31.0 ft	Clay	37	19	18		
◎ BFB-03#16 38.5 ft	Silty Loam	NP	NP	NP		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BFB-02#2 3.5 ft	4.75	0.003			0.5	5.3	38.6	55.5
☒ BFB-02#9 21.0 ft	9.5	0.008	0.001		4.2	13.9	46.9	34.9
▲ BFB-02#21 63.5 ft	9.5	0.832	0.317	0.016	6.8	75.9	14.4	2.8
★ BFB-03#13 31.0 ft	12.5	0.006			3.5	10.5	45.5	40.5
◎ BFB-03#16 38.5 ft	9.5	0.043	0.01		4.7	23.7	59.6	12.1

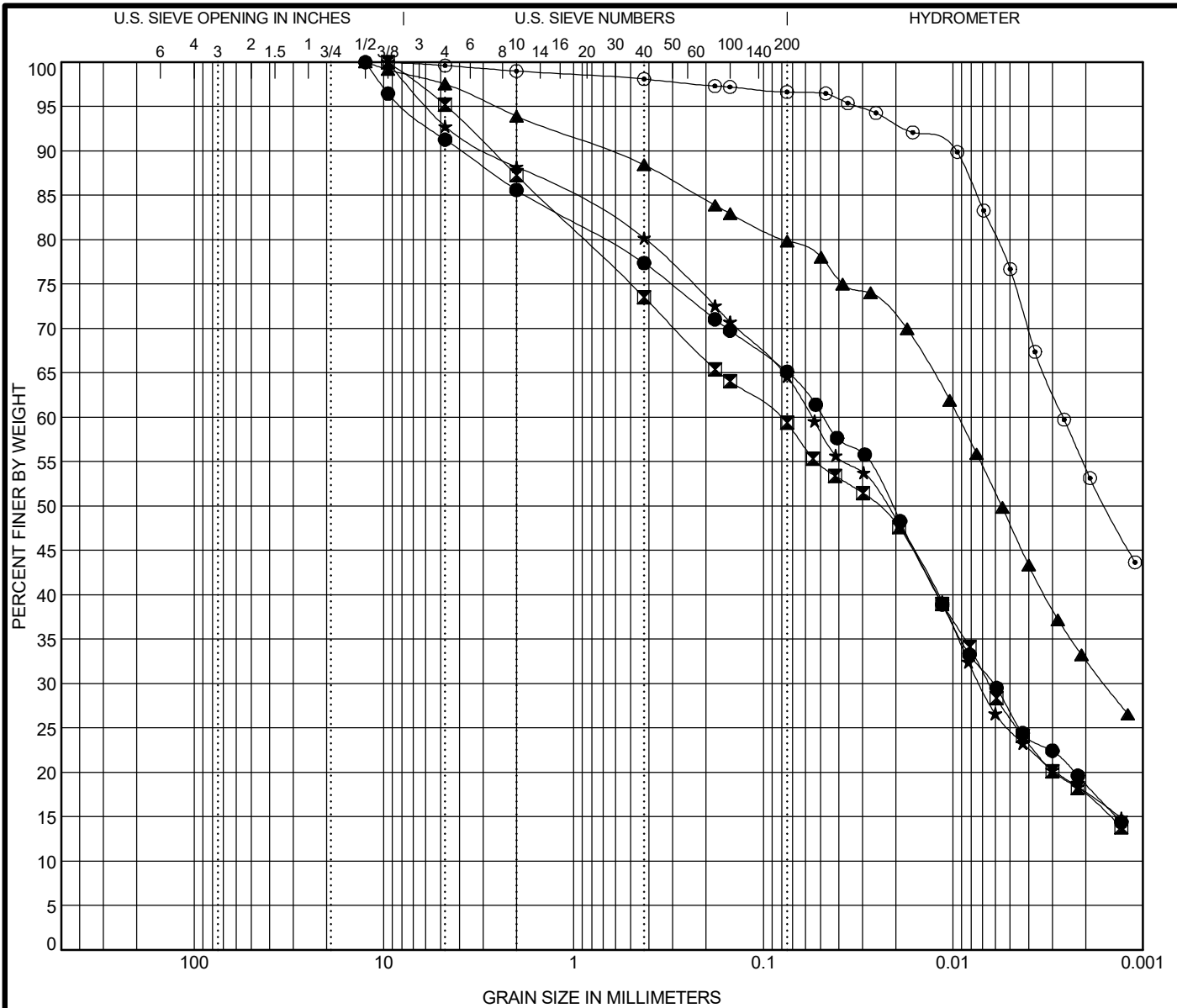
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

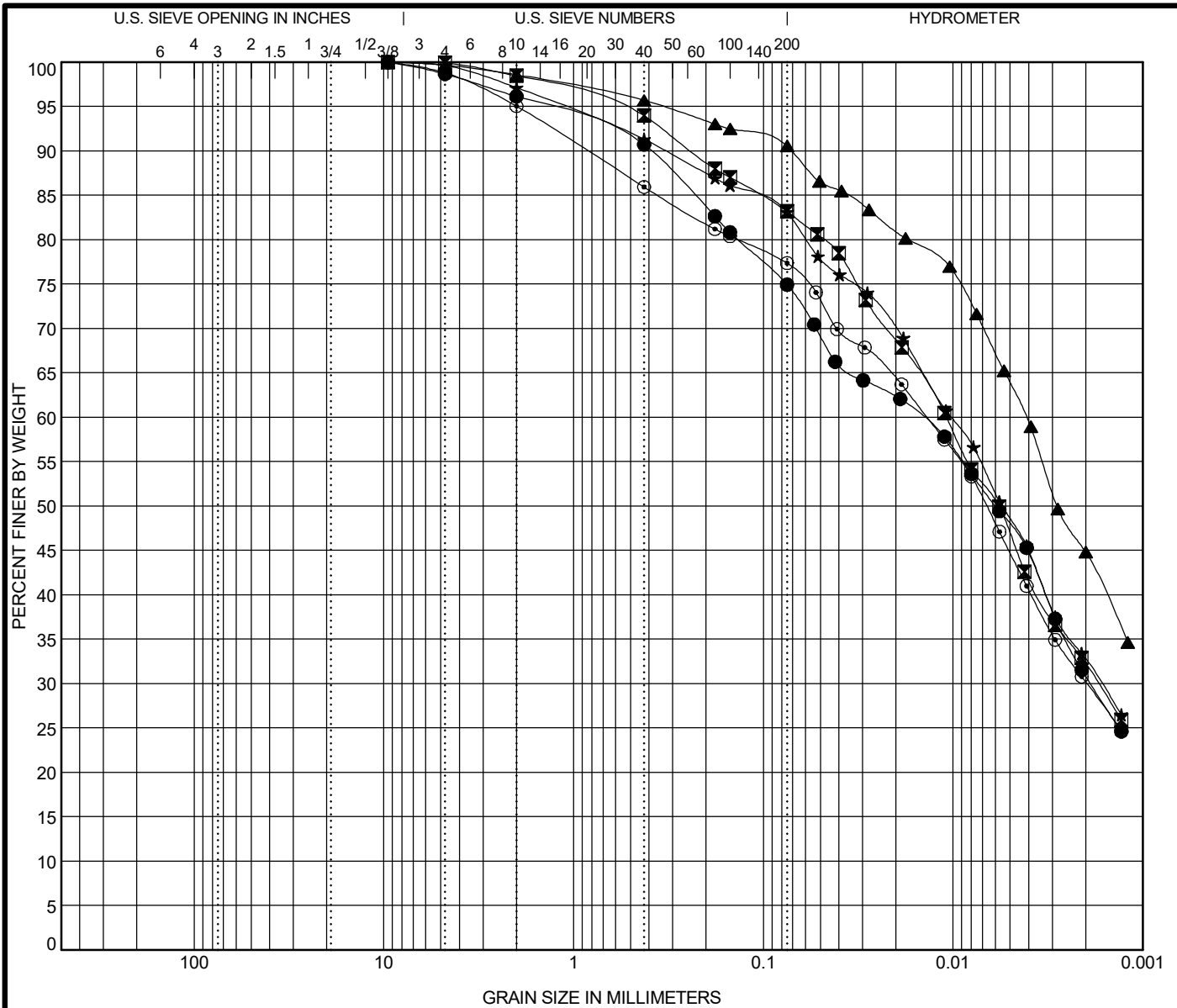
Specimen Identification		IDH Classification				LL	PL	PI	Cc	Cu
●	BFB-03#23 73.5 ft	Silty Clay Loam				22	13	9		
☒	BFB-04#2 3.5 ft	Clay Loam				25	17	8		
▲	BFB-04#9 21.0 ft	Silty Clay				34	17	17		
★	BFB-04#17 43.5 ft	Silty Clay Loam				23	15	8		
◎	BFB-04#24 78.5 ft	Clay				42	20	22		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	BFB-03#23 73.5 ft	12.5	0.048	0.006		14.4	20.6	46.3	18.7	
☒	BFB-04#2 3.5 ft	9.5	0.082	0.006		12.7	28.1	41.7	17.5	
▲	BFB-04#9 21.0 ft	12.5	0.009	0.002		6.1	14.1	47.2	32.6	
★	BFB-04#17 43.5 ft	9.5	0.055	0.007		11.8	23.8	46.6	17.8	
◎	BFB-04#24 78.5 ft	9.5	0.003			1.0	2.4	42.4	54.2	

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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification					LL	PL	PI	Cc	Cu
●	NB90-SGB-03#2 3.5 ft	Clay					43	22	21		
☒	NB90-SGB-07#2 3.5 ft	Silty Clay					32	16	16		
▲	NB90-SGB-10#3 5.0 ft	Clay					43	20	23		
★	NB90-SGB-13#2 3.0 ft	Silty Clay					35	18	17		
◎	NB90-SGB-16B#2 3.0 ft	Clay					35	17	18		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	NB90-SGB-03#2 3.5 ft	9.5	0.015	0.002		3.9	21.4	43.9	30.8		
☒	NB90-SGB-07#2 3.5 ft	9.5	0.011	0.002		1.5	15.4	50.9	32.2		
▲	NB90-SGB-10#3 5.0 ft	9.5	0.004			1.4	8.1	45.6	44.8		
★	NB90-SGB-13#2 3.0 ft	9.5	0.01	0.002		2.9	14.2	50.2	32.7		
◎	NB90-SGB-16B#2 3.0 ft	9.5	0.014	0.002		4.9	17.8	47.1	30.2		

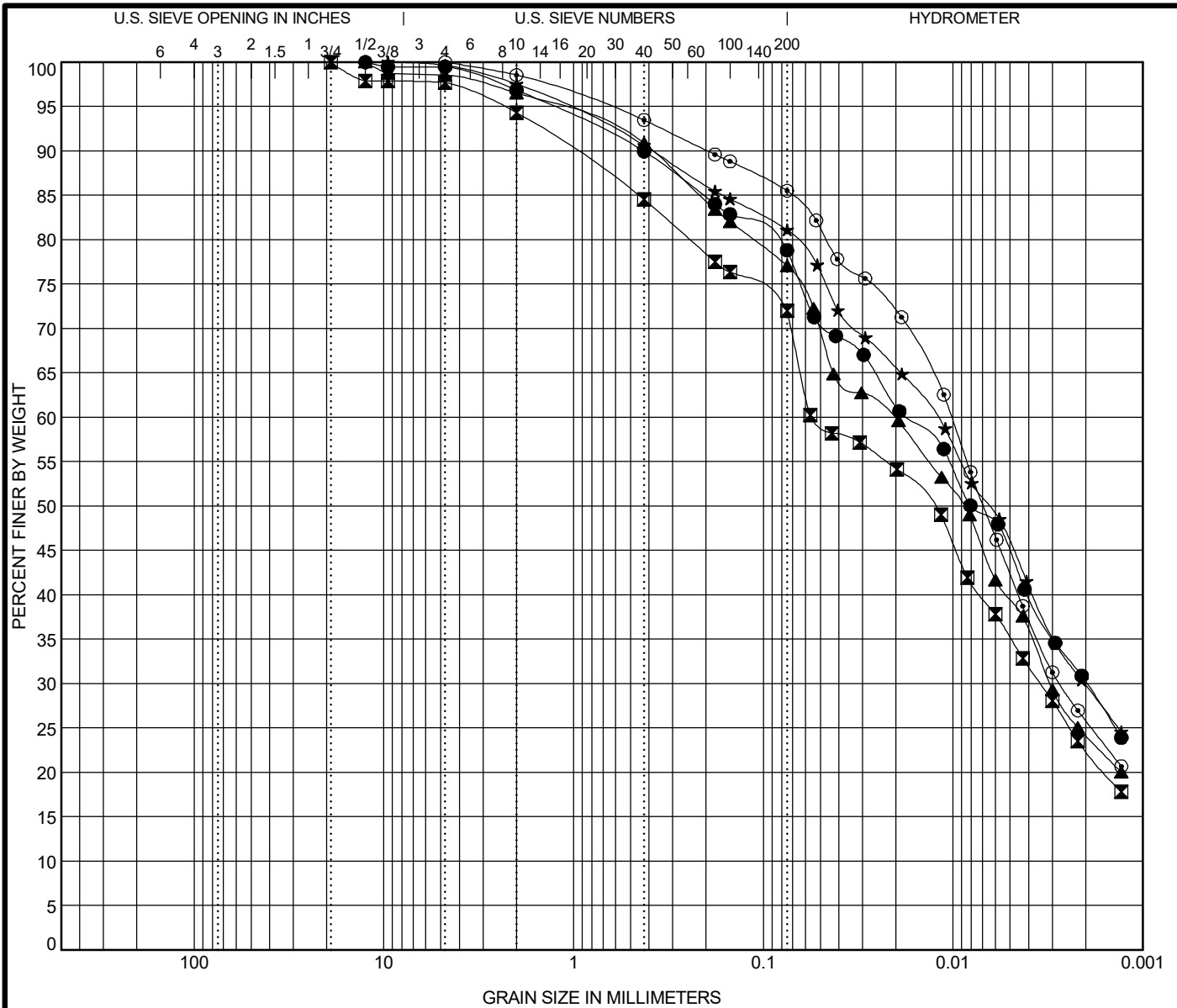
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GRAIN SIZE DISTRIBUTION

Project: Jane Byrne Interchange
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01



COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification		IDH Classification					LL	PL	PI	Cc	Cu
●	NB90-SGB-21#2 3.0 ft	Clay					34	17	17		
☒	NB90-SGB-23#2 3.0 ft	Silty Clay Loam					32	17	15		
▲	SB90-SGB-02#2 3.0 ft	Silty Clay Loam					29	15	14		
★	SB90-SGB-06#2 3.5 ft	Silty Clay					32	17	15		
⊙	SB90-SGB-10#2 3.0 ft	Silty Clay Loam					31	17	14		
Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
●	NB90-SGB-21#2 3.0 ft	12.5	0.018	0.002		3.1	18.4	48.3	30.2		
☒	NB90-SGB-23#2 3.0 ft	19	0.055	0.003		5.7	22.9	49.0	22.5		
▲	SB90-SGB-02#2 3.0 ft	12.5	0.021	0.003		3.5	19.7	52.7	24.1		
★	SB90-SGB-06#2 3.5 ft	9.5	0.012	0.002		2.5	16.6	51.2	29.8		
⊙	SB90-SGB-10#2 3.0 ft	4.75	0.01	0.003		1.5	13.1	59.6	25.8		

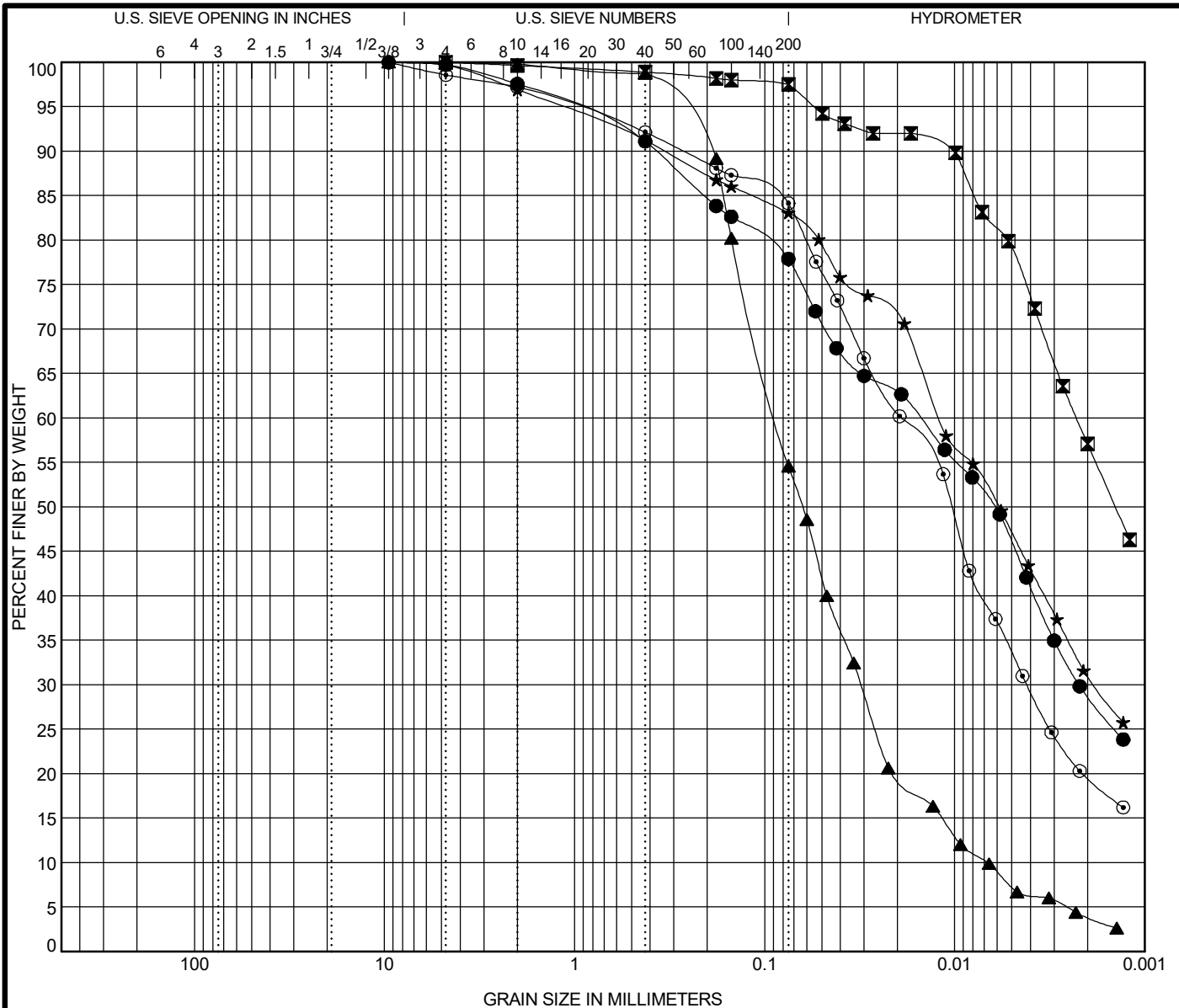
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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● SB90-SGB-15#2 3.0 ft	Silty Clay Loam	30	16	14		
☒ SB90-SGB-18#3 5.0 ft	Clay	53	23	30		
▲ SB90-SGB-20# 3.0 ft	Silty Loam	NP	NP	NP	1.66	12.90
★ SB90-SGB-22#1 1.0 ft	Silty Clay	33	18	15		
⊙ SB90-SGB-24#2 3.5 ft	Silty Clay Loam	28	16	12		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● SB90-SGB-15#2 3.0 ft	9.5	0.015	0.002		2.4	19.9	48.9	28.7
☒ SB90-SGB-18#3 5.0 ft	4.75	0.002			0.4	2.2	40.3	57.1
▲ SB90-SGB-20# 3.0 ft	9.5	0.087	0.031	0.007	0.2	45.6	50.3	3.9
★ SB90-SGB-22#1 1.0 ft	9.5	0.012	0.002		3.1	14.0	51.9	31.0
⊙ SB90-SGB-24#2 3.5 ft	9.5	0.019	0.004		2.8	13.3	64.3	19.6

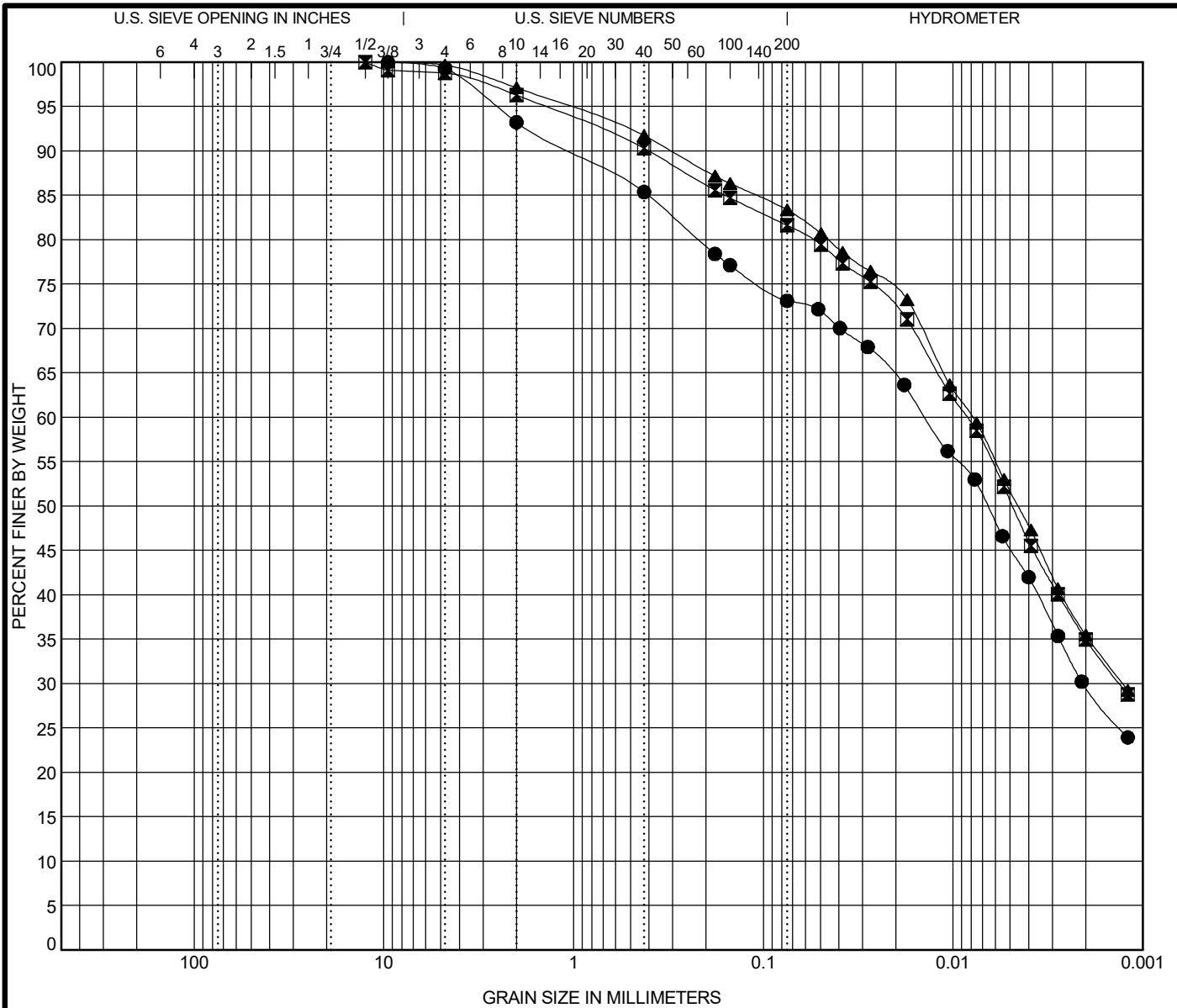


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COBBLES	GRAVEL	SAND		SILT AND CLAY
		coarse	fine	

Specimen Identification	IDH Classification	LL	PL	PI	Cc	Cu
● Z051-RWB-04#7 15.0 ft	Clay	32	17	15		
☒ Z051-RWB-04#11 25.0 ft	Clay	33	17	16		
▲ Z051-RWB-04#15 35.0 ft	Clay	33	17	16		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● Z051-RWB-04#7 15.0 ft	9.5	0.014	0.002		6.8	20.1	43.4	29.7
☒ Z051-RWB-04#11 25.0 ft	12.5	0.008	0.001		3.7	14.7	46.6	35.0
▲ Z051-RWB-04#15 35.0 ft	9.5	0.008	0.001		2.9	13.8	47.8	35.5

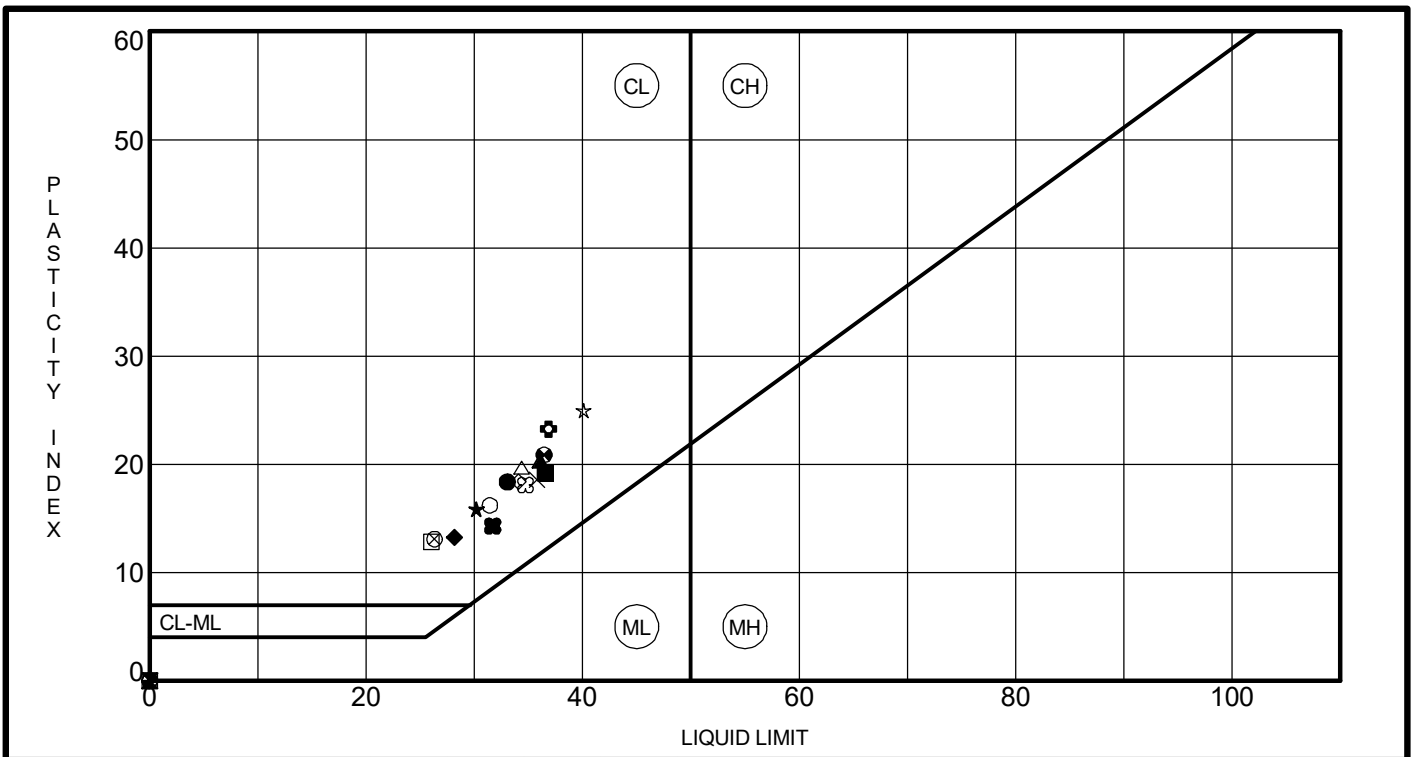


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WEI GRAIN SIZE IDH 11000401.GPJ US LAB.GDT 7/25/19



Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● 02-RWB-01#5	11.0 ft	33	15	18	78	Silty Clay Loam
⊗ 02-RWB-01#18	58.5 ft	NP	NP	NP	69	Silty Loam
▲ 02-RWB-02#8	18.5 ft	36	16	20	81	Silty Clay
★ 02-RWB-03#3	6.0 ft	30	14	16	71	Silty Clay Loam
⊙ 02-RWB-03#15	43.5 ft	NP	NP	NP	85	Silt
⊕ 02-RWB-03#19	63.5 ft	37	14	23	88	Silty Clay
○ 02-RWB-04#17	53.5 ft	31	15	16	91	Silty Clay
△ 02-RWB-05#4	8.5 ft	34	15	19	78	Silty Clay
⊗ 02-RWB-05#16	48.5 ft	26	13	13	69	Silty Loam
⊕ 02-RWB-05#19	63.5 ft	NP	NP	NP	24	Sandy Loam
□ 02-RWB-06#3	6.0 ft	26	13	13	73	Silty Clay Loam
⊕ 02-RWB-06#11	26.0 ft	36	16	20	81	Silty Clay
⊕ 02-RWB-06#19	63.5 ft	NP	NP	NP	20	Gravelly Sandy Loam
☆ 02-RWB-06#23	83.5 ft	40	15	25	89	Silty Clay
⊗ 02-ST-06#2	18.0 ft	35	17	18	81	Silty Clay Loam
■ 02-ST-06#3	33.0 ft	37	17	20	82	Clay
◆ 0589-B-01#8	58.5 ft	28	15	13	79	Silty Clay Loam
◇ 0589-B-03#12	28.5 ft	34	16	18	79	Silty Clay
× 08-RWB-01#8	18.5 ft	36	17	19	80	Silty Clay
■ 08-RWB-02#11	38.5 ft	32	17	15	76	Gravelly Silty Clay Loam

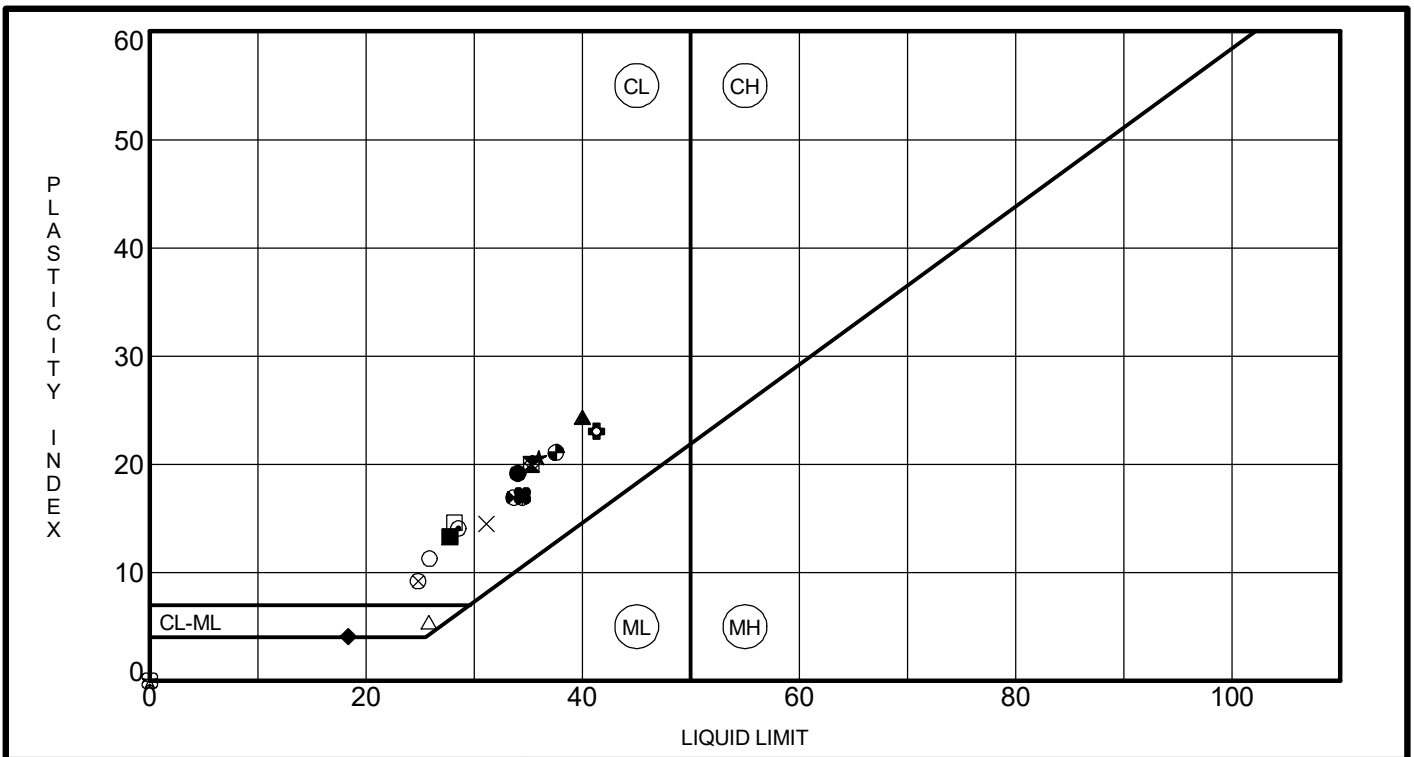
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ATTERBERG LIMITS' RESULTS

Project: Jane Byrne Interchange
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01



Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● 1088-B-02#11	26.0 ft	34	15	19	83	Silty Clay
⊠ 1165-B-01B#13	33.5 ft	35	15	20	77	Clay
▲ 1165-B-01B#19	63.5 ft	40	16	24	93	Clay
★ 1165-B-02#6	13.5 ft	36	15	21	82	Silty Clay
⊙ 1165-B-02#18	58.5 ft	29	14	15	70	Silty Clay Loam
⊕ 14-RWB-02#14	38.5 ft	41	18	23	94	Clay
○ 14-RWB-03#16	48.5 ft	26	15	11	70	Clay Loam
△ 16-RWB-01B#15	43.5 ft	26	20	6	95	Silty Loam
⊗ 16-RWB-02#15	43.5 ft	25	16	9	71	Silty Clay Loam
⊕ 16-RWB-04B#10	23.5 ft	34	18	16	83	Clay
□ 1702-B-01#9	21.0 ft	28	14	14	72	Clay Loam
⊕ 1702-B-03#9	63.5 ft	34	17	17	83	Silty Clay
⊕ 1705-B-02#13	33.5 ft	38	16	22	87	Silty Clay
☆ 1705-B-02#19	63.5 ft	NP	NP	NP	22	Gravelly Sandy Loam
⊗ 1705-B-02#22	78.5 ft	NP	NP	NP	17	Sand
■ 1705-B-03#16	48.5 ft	28	14	14	91	Silty Loam
◆ 1705-B-04#21	73.5 ft	18	14	4	62	Silty Loam
◇ 1705-B-05#7	16.0 ft	35	15	20	77	Silty Clay Loam
× 1705-B-05A#1	10.0 ft	31	17	14	77	Silty Clay Loam
■ 1705-B-05A#2	16.0 ft	34	17	17	82	Silty Clay

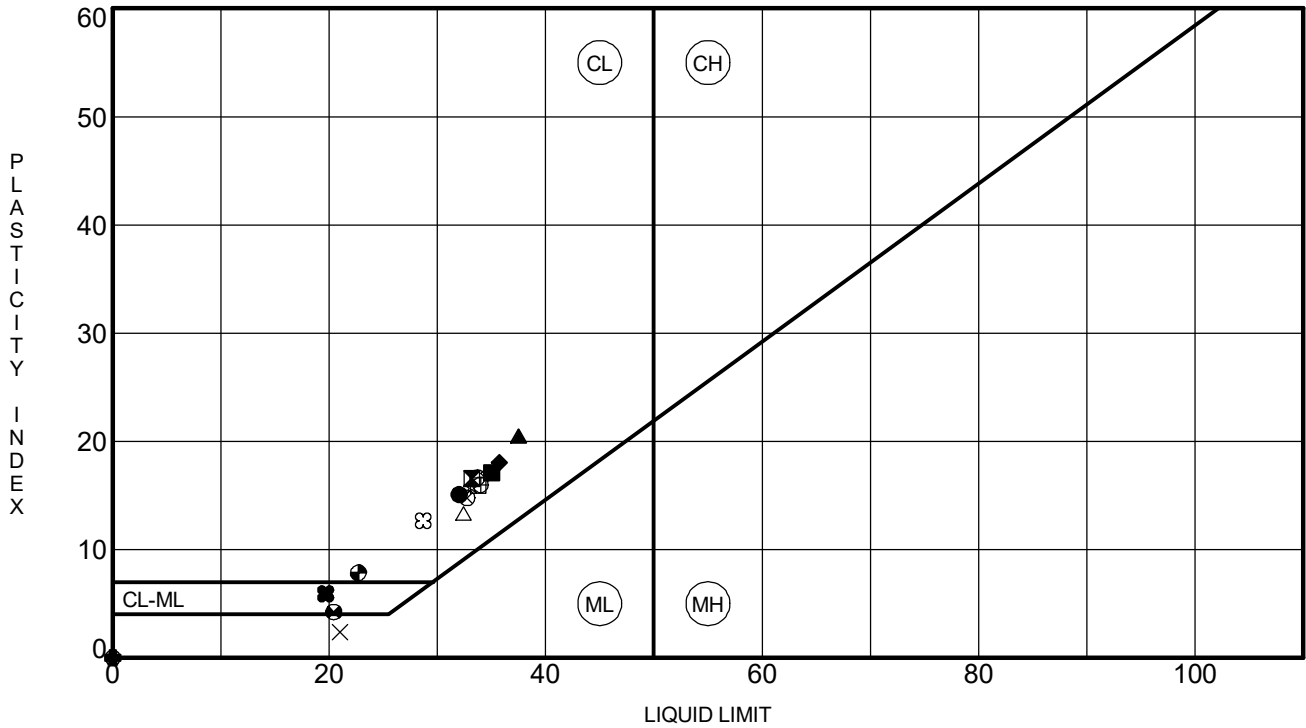
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ATTERBERG LIMITS' RESULTS

Project: Jane Byrne Interchange
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 Number: 1100-04-01



Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● 1705-B-05A#	16.5 ft	32	17	15	83	Silty Clay
⊗ 1705-B-05A#3	25.0 ft	33	17	16	83	Silty Clay
▲ 1705-B-07#12	28.5 ft	38	17	21	85	Silty Clay
★ 1705-B-07#23	83.5 ft	NP	NP	NP	96	Silt
⊙ 1705-B-08#22	78.5 ft	NP	NP	NP	99	Silt
⊕ 1706-B-01#23	83.5 ft	NP	NP	NP	54	Gravelly Silty Loam
○ 1706-B-02#8	18.5 ft	34	17	17	80	Silty Clay
△ 1710-B-03#2	3.5 ft	32	19	13	82	Silty Clay Loam
⊗ 1710-B-03#6	13.5 ft	33	18	15	80	Silty Clay Loam
⊕ 1710-B-03#13	33.5 ft	34	18	16	80	Silty Clay
□ 1710-B-03#16	48.5 ft	34	18	16	83	Clay
⊕ 1710-B-03#20	68.5 ft	20	16	4	83	Silty Loam
⊕ 1710-B-03#23	83.5 ft	23	15	8	78	Silty Loam
☆ 1710-B-04#5	11.0 ft	33	17	16	79	Clay
⊗ 1710-B-04#9	21.0 ft	29	16	13	84	Silty Clay Loam
■ 1710-B-04#15	43.5 ft	35	18	17	85	Clay
◆ 1710-B-04#17	53.5 ft	36	18	18	91	Silty Clay
◇ 1710-B-04#18	58.5 ft	35	18	17	83	Clay
× 1710-B-04#20	68.5 ft	21	19	2	88	Silt
■ 1710-B-04#23	83.5 ft	20	14	6	71	Silty Loam

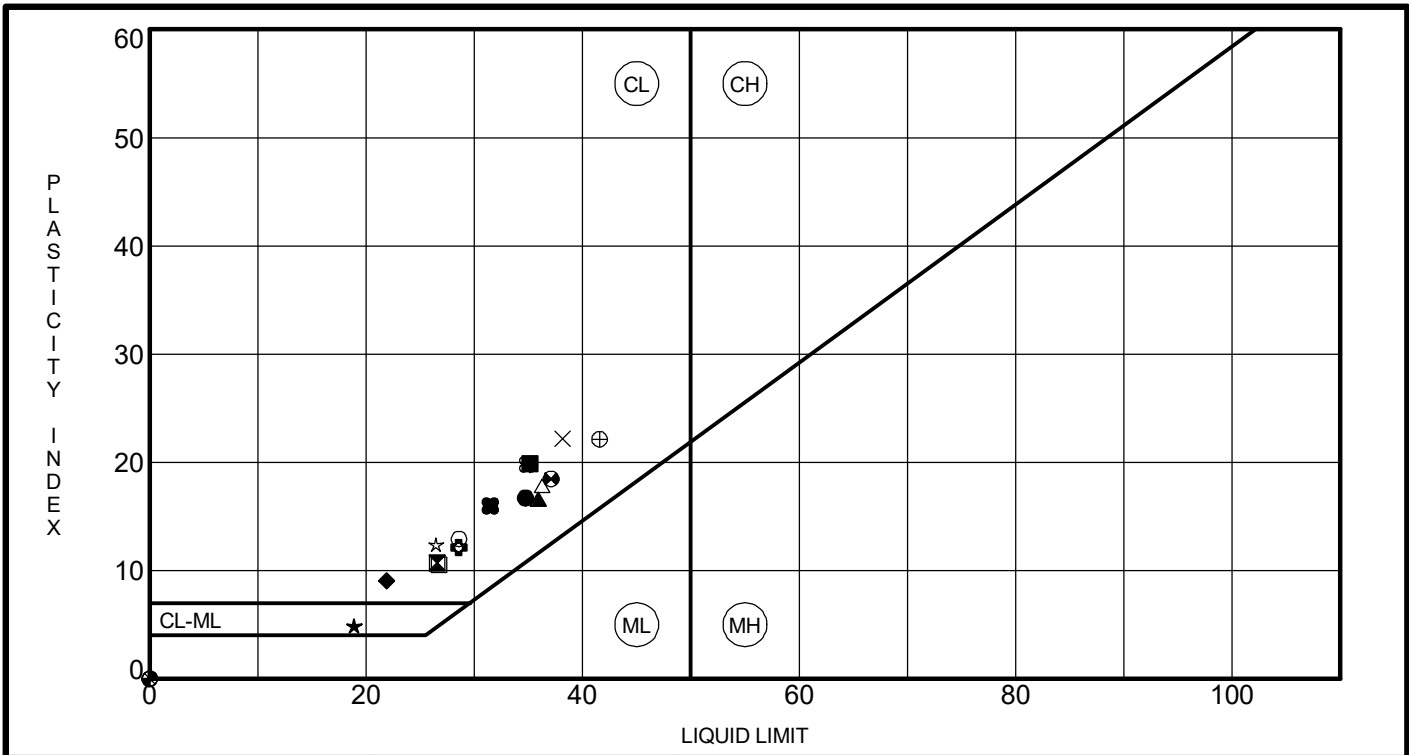
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ATTERBERG LIMITS' RESULTS

Project: Jane Byrne Interchange
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01



Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● 1712-B-02#9	21.0 ft	35	18	17	83	Silty Clay
⊠ 1712-B-02#15	43.5 ft	27	16	11	66	Silty Loam
▲ 1712-B-02#17	53.5 ft	36	19	17	98	Clay
★ 1712-B-02#20	68.5 ft	19	14	5	72	Silty Loam
⊙ 1712-B-02#23	83.5 ft	NP	NP	NP	99	Silt
⊕ 1715-B-01#21	73.5 ft	29	16	13	88	Silty Clay Loam
○ 1715-B-01#24	88.5 ft	29	16	13	85	Silty Clay Loam
△ 1715-B-03#16	48.5 ft	36	18	18	97	Silty Clay
⊗ 1715-B-03#23	83.5 ft	NP	NP	NP	99	Silt
⊕ 2054-B-01#6	13.5 ft	42	19	23	90	Clay
□ 2054-B-02#15	43.5 ft	27	16	11	75	Silty Clay Loam
⊕ 2054-B-03#13	33.5 ft	37	19	18	84	Clay
⊕ 2054-B-03#23	83.5 ft	NP	NP	NP	73	Silty Loam
☆ 2055-B-02#23	83.5 ft	26	14	12	72	Silty Clay Loam
⊗ 2055-B-04#7	16.0 ft	35	15	20	81	Silty Clay
■ 2055-B-04#14	38.5 ft	35	15	20	87	Silty Clay
◆ 2055-B-04#15	43.5 ft	22	13	9	53	Gravelly Loam
◇ 2055-B-05#6	13.5 ft	35	15	20	81	Clay
× 2055-B-05#14	38.5 ft	38	16	22	89	Clay
■ 20-RWB-01#7	16.0 ft	31	16	15	79	Silty Clay Loam

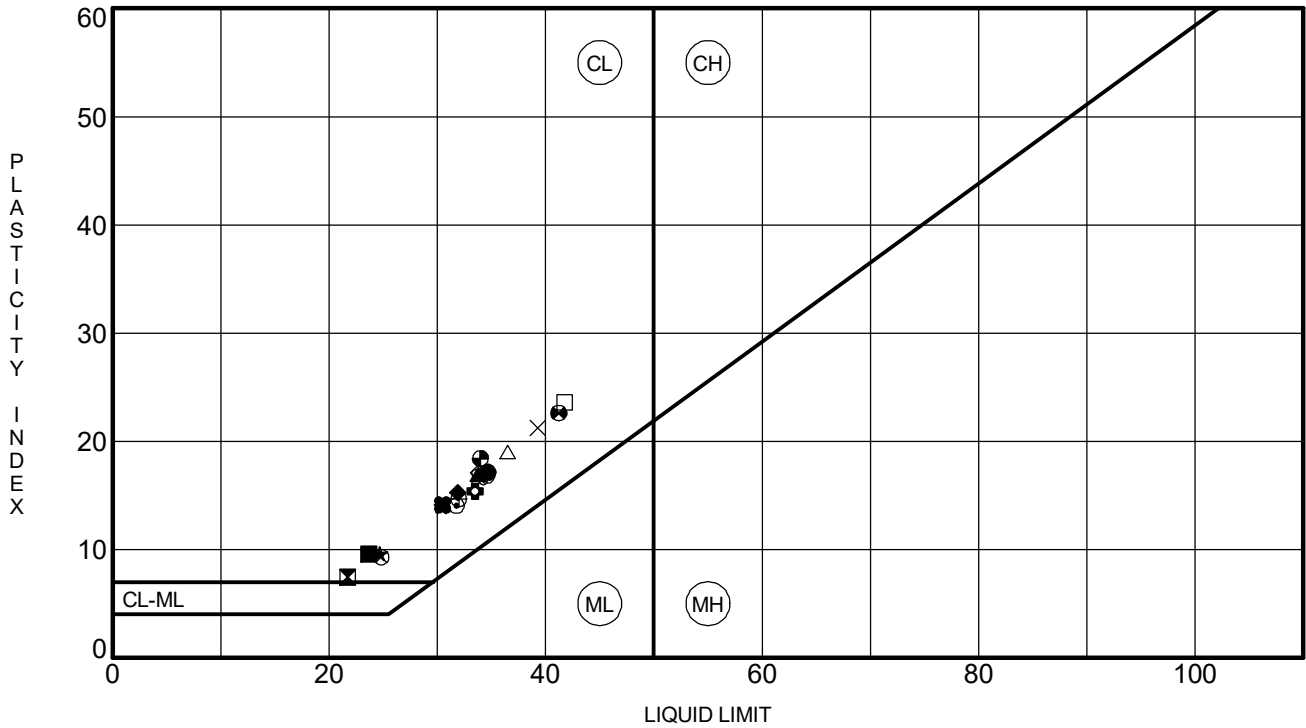
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Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● 20-RWB-01#16	48.5 ft	35	18	17	93	Silty Clay
⊠ 21-RWB-02#24	89.0 ft	22	14	8	77	Silty Loam
▲ 21-RWB-04#10	23.5 ft	34	17	17	77	Silty Clay
★ 21-RWB-05#18	58.5 ft	25	15	10	68	Silty Loam
⊙ 22-RWB-03#6	13.5 ft	32	18	14	83	Silty Clay Loam
⊕ 22-RWB-03#13	33.5 ft	33	18	15	82	Silty Clay
○ 22-RWB-03#18	58.5 ft	35	18	17	88	Silty Clay
△ 23-RWB-03#12	28.5 ft	36	17	19	83	Clay
⊗ 23-RWB-03#15	43.5 ft	25	16	9	68	Silty Clay Loam
⊕ 24-RWB-03#8	18.5 ft	32	17	15	83	Silty Clay
□ 24-RWB-03#17	53.5 ft	42	18	24	92	Clay
⊕ 27-RWB-02#18	58.5 ft	41	19	22	98	Silty Clay
⊕ 27-RWB-03#10	23.5 ft	34	16	18	82	Silty Clay
☆ 28-RWB-01#15	43.5 ft	30	16	14	82	Silty Clay
⊗ 29-RWB-01#13	33.5 ft	34	17	17	76	Silty Clay
■ 29-RWB-01#18	58.5 ft	24	14	10	75	Silty Loam
◆ 30-RWB-03#1	13.5 ft	32	17	15	78	Silty Clay Loam
◇ 30-RWB-03#4	28.5 ft	34	17	17	79	Silty Clay
× 31-RWB-01#17	53.5 ft	39	18	21	91	Clay
■ 31-RWB-03#12	28.5 ft	30	16	14	82	Silty Clay

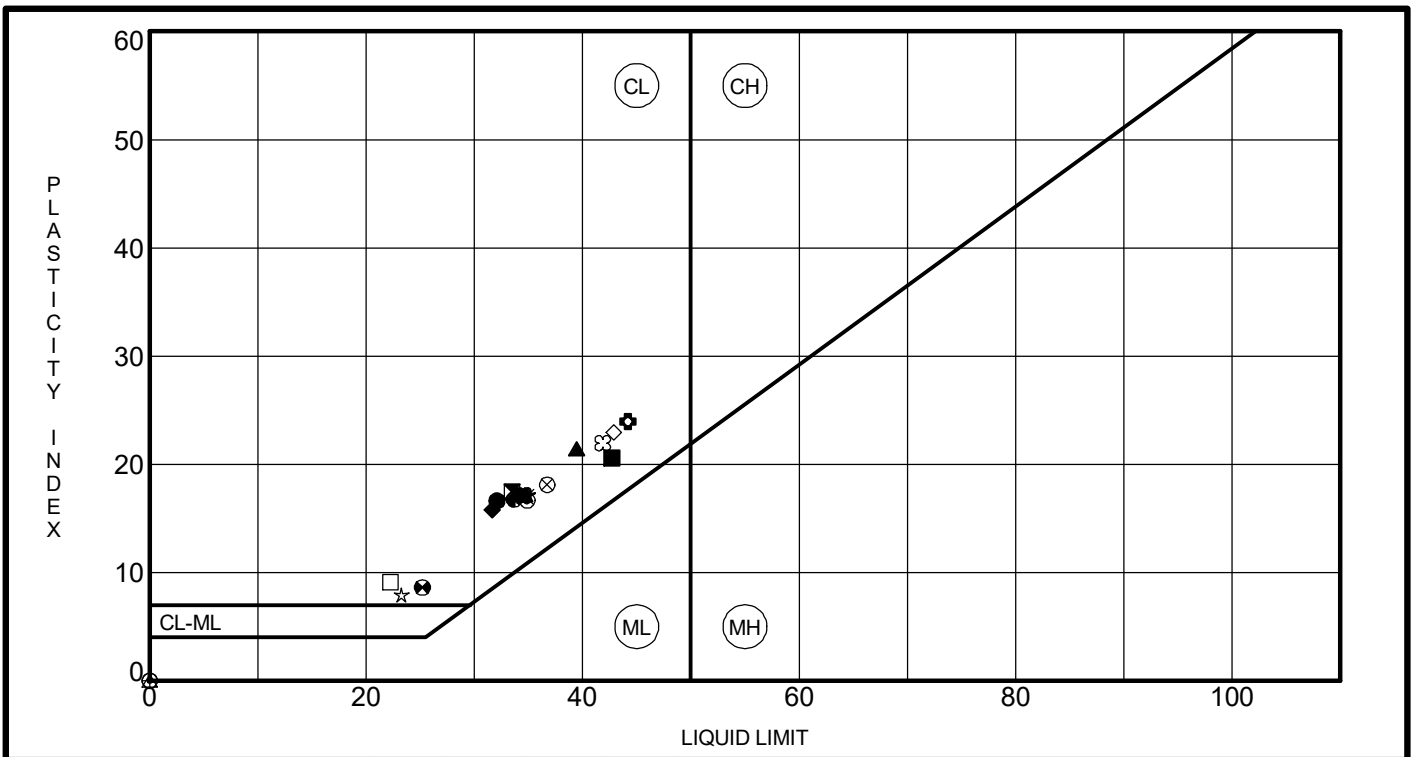
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Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● 32-RWB-03B#2	18.5 ft	32	15	17	80	Silty Clay
⊠ 32-RWB-03B#5	33.5 ft	33	16	17	83	Silty Clay
▲ 33-RWB-02#9	21.0 ft	39	18	21	82	Clay
★ BFB-01#6	13.5 ft	35	18	17	81	Clay
⊙ BFB-01#21	63.5 ft	NP	NP	NP	17	Gravelly Sandy Loam
⊕ BFB-02#2	3.5 ft	44	20	24	94	Clay
○ BFB-02#9	21.0 ft	35	18	17	82	Clay
△ BFB-02#21	63.5 ft	NP	NP	NP	17	Sand
⊗ BFB-03#13	31.0 ft	37	19	18	86	Clay
⊕ BFB-03#16	38.5 ft	NP	NP	NP	72	Silty Loam
□ BFB-03#23	73.5 ft	22	13	9	65	Silty Clay Loam
⊕ BFB-04#2	3.5 ft	25	17	8	59	Clay Loam
⊕ BFB-04#9	21.0 ft	34	17	17	80	Silty Clay
☆ BFB-04#17	43.5 ft	23	15	8	65	Silty Clay Loam
⊗ BFB-04#24	78.5 ft	42	20	22	97	Clay
■ NB90-SGB-03#2	3.5 ft	43	22	21	75	Clay
◆ NB90-SGB-07#2	3.5 ft	32	16	16	83	Silty Clay
◇ NB90-SGB-10#3	5.0 ft	43	20	23	91	Clay
× NB90-SGB-13#2	3.0 ft	35	18	17	83	Silty Clay
■ NB90-SGB-16B#2	3.0 ft	35	17	18	77	Clay

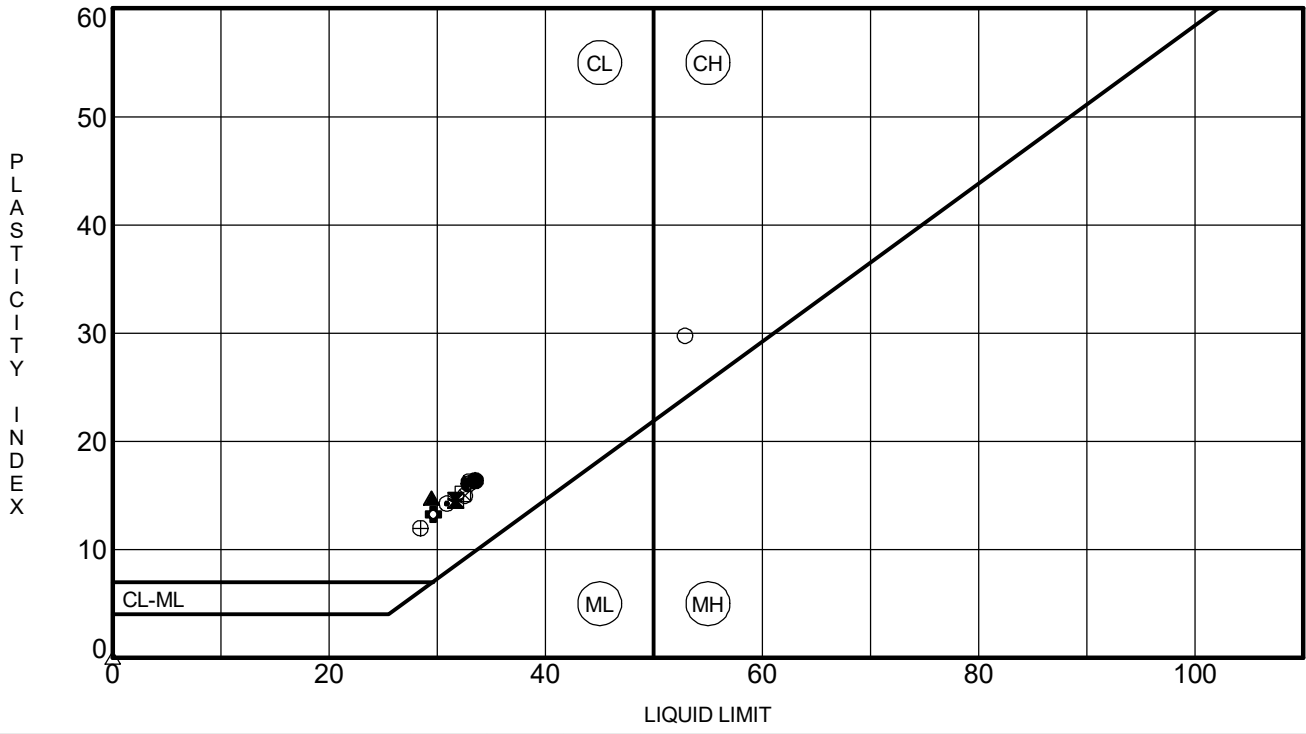
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Specimen Identification	LL	PL	PI	Fines	IDH Classification	
● NB90-SGB-21#2	3.0 ft	34	17	17	79	Clay
☒ NB90-SGB-23#2	3.0 ft	32	17	15	72	Silty Clay Loam
▲ SB90-SGB-02#2	3.0 ft	29	15	14	77	Silty Clay Loam
★ SB90-SGB-06#2	3.5 ft	32	17	15	81	Silty Clay
⊙ SB90-SGB-10#2	3.0 ft	31	17	14	86	Silty Clay Loam
⊕ SB90-SGB-15#2	3.0 ft	30	16	14	78	Silty Clay Loam
○ SB90-SGB-18#3	5.0 ft	53	23	30	98	Clay
△ SB90-SGB-20#	3.0 ft	NP	NP	NP	55	Silty Loam
⊗ SB90-SGB-22#1	1.0 ft	33	18	15	83	Silty Clay
⊕ SB90-SGB-24#2	3.5 ft	28	16	12	84	Silty Clay Loam
□ Z051-RWB-04#7	15.0 ft	32	17	15	73	Clay
⊕ Z051-RWB-04#11	25.0 ft	33	17	16	82	Clay
⊕ Z051-RWB-04#15	35.0 ft	33	17	16	83	Clay

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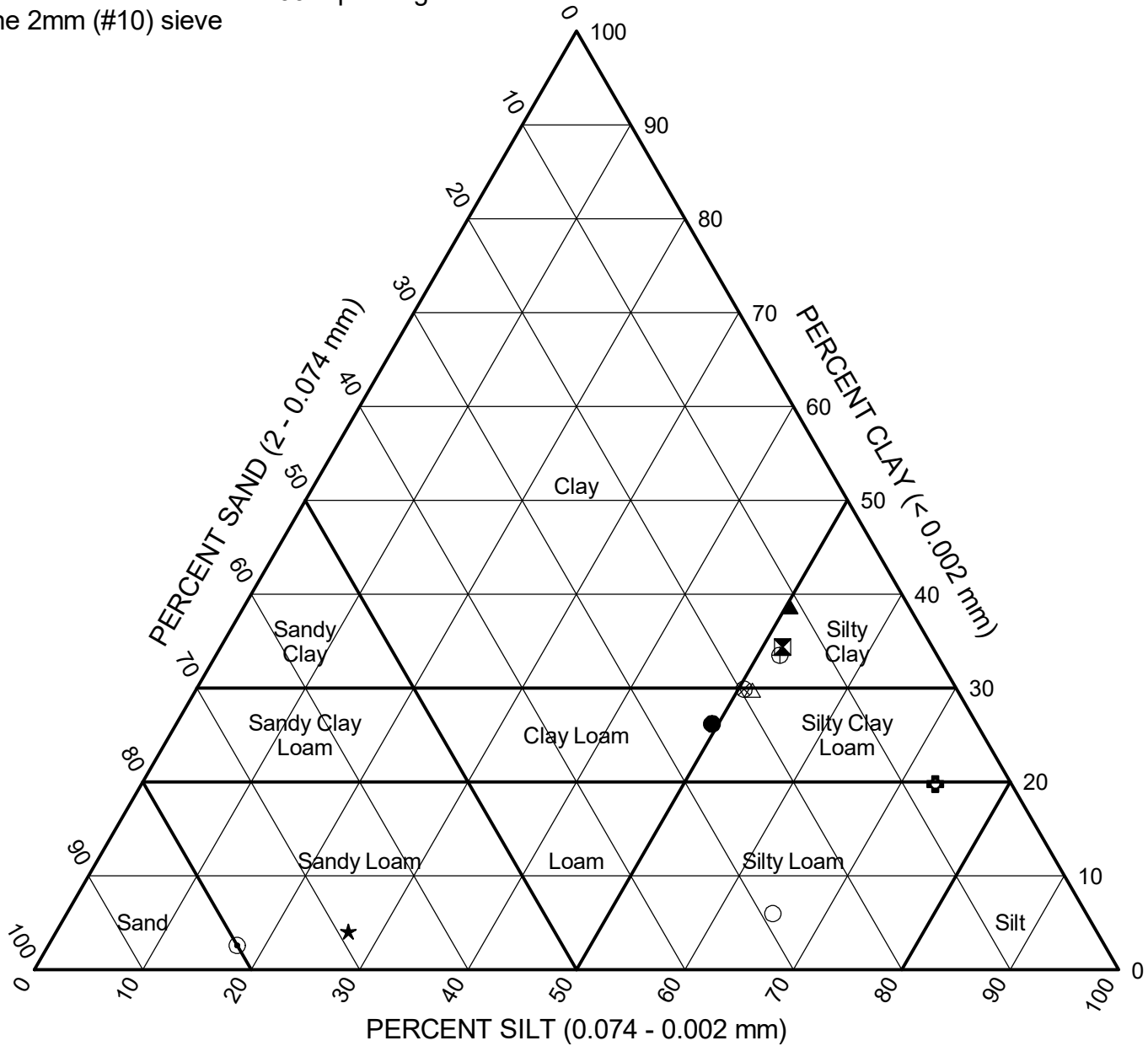


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ATTERBERG LIMITS' RESULTS

Project: Jane Byrne Interchange
 Location: Section 17, T39N, R14E of 3rd PM
 Number: 1100-04-01

Fractions normalized to 100% passing the 2mm (#10) sieve



Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● 1702-B-01#9	21.0	24.3	49.4	26.2	Clay Loam	A-6 (7)	CL
⊠ 1702-B-03#9	63.5	13.8	51.8	34.4	Silty Clay	A-6 (13)	CL
▲ 1705-B-02#13	33.5	10.9	50.3	38.7	Silty Clay	A-6 (19)	CL
★ 1705-B-02#19	63.5	69.2	26.9	4.1	Gravelly Sandy Loam	A-1-b (0)	SM
⊙ 1705-B-02#22	78.5	80.0	17.4	2.6	Sand	A-1-b (0)	SM
⊕ 1705-B-03#16	48.5	7.0	73.2	19.8	Silty Loam	A-6 (11)	CL
○ 1705-B-04#21	73.5	28.9	65.1	6.0	Silty Loam	A-4 (0)	CL-ML
△ 1705-B-05#7	16.0	18.9	51.3	29.8	Silty Clay Loam	A-6 (14)	CL
⊗ 1705-B-05A#1	10.0	19.6	50.5	29.9	Silty Clay Loam	A-6 (9)	CL
⊕ 1705-B-05A#2	16.0	14.5	52.0	33.5	Silty Clay	A-6 (13)	CL

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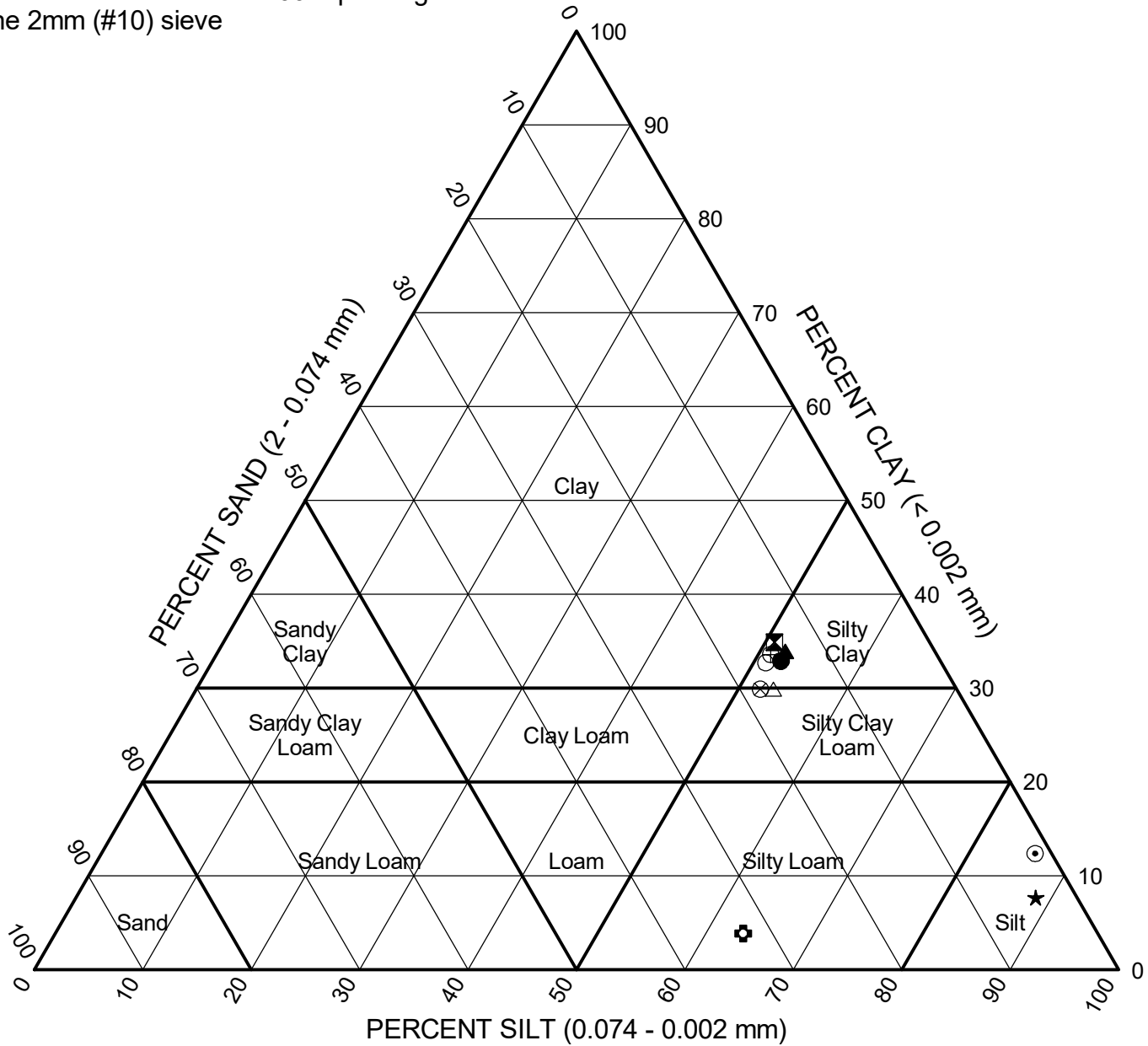


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IDH Textural Classification Chart

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 Number: 1100-04-01

Fractions normalized to 100% passing the 2mm (#10) sieve



Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● 1705-B-05A#	16.5	14.7	52.4	32.9	Silty Clay	A-6 (11)	CL
⊠ 1705-B-05A#3	25.0	14.2	50.8	34.9	Silty Clay	A-6 (12)	CL
▲ 1705-B-07#12	28.5	13.7	52.3	33.9	Silty Clay	A-6 (17)	CL
★ 1705-B-07#23	83.5	3.9	88.5	7.7	Silt	A-4 (0)	ML
⊙ 1705-B-08#22	78.5	1.5	86.1	12.4	Silt	A-4 (0)	ML
⊕ 1706-B-01#23	83.5	32.7	63.4	3.9	Gravelly Silty Loam	A-4 (0)	ML
○ 1706-B-02#8	18.5	16.3	51.1	32.7	Silty Clay	A-6 (12)	CL
△ 1710-B-03#2	3.5	16.9	53.2	29.9	Silty Clay Loam	A-6 (10)	CL
⊠⊙ 1710-B-03#6	13.5	18.1	52.0	29.9	Silty Clay Loam	A-6 (11)	CL
⊕ 1710-B-03#13	33.5	15.4	51.1	33.6	Silty Clay	A-6 (12)	CL

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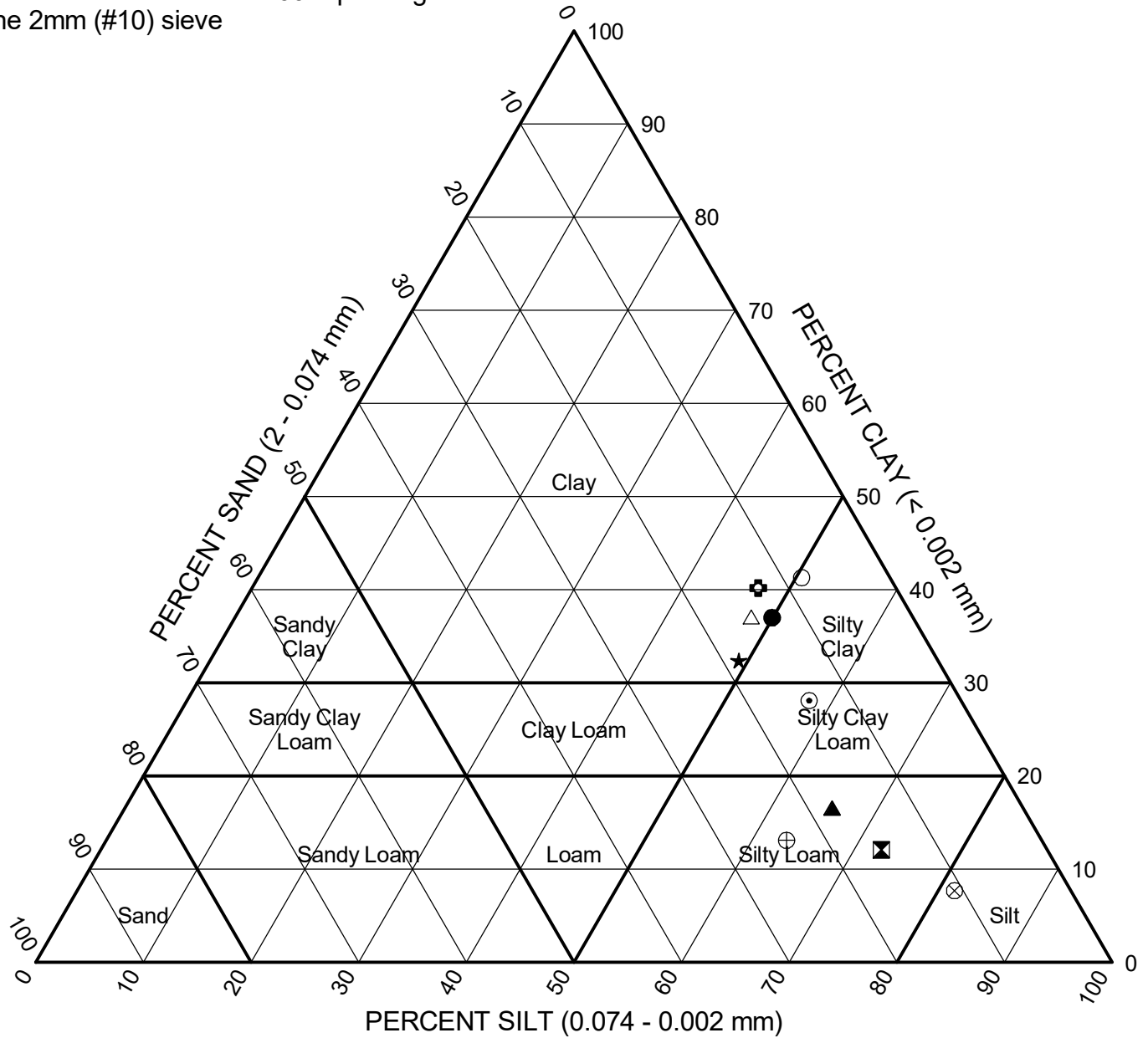


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the 2mm (#10) sieve



Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● 1710-B-03#16	48.5	13.1	49.9	37.0	Clay	A-6 (12)	CL
⊠ 1710-B-03#20	68.5	15.3	72.5	12.1	Silty Loam	A-4 (1)	CL-ML
▲ 1710-B-03#23	83.5	17.6	65.7	16.6	Silty Loam	A-4 (4)	CL
★ 1710-B-04#5	11.0	18.5	49.1	32.4	Clay	A-6 (11)	CL
⊙ 1710-B-04#9	21.0	14.2	57.8	28.1	Silty Clay Loam	A-6 (9)	CL
⊕ 1710-B-04#15	43.5	12.8	47.0	40.2	Clay	A-6 (14)	CL
○ 1710-B-04#17	53.5	8.2	50.5	41.3	Silty Clay	A-6 (16)	CL
△ 1710-B-04#18	58.5	15.0	47.9	37.1	Clay	A-6 (13)	CL
⊗ 1710-B-04#20	68.5	10.7	81.5	7.7	Silt	A-4 (0)	ML
⊕ 1710-B-04#23	83.5	23.6	63.2	13.1	Silty Loam	A-4 (1)	CL-ML



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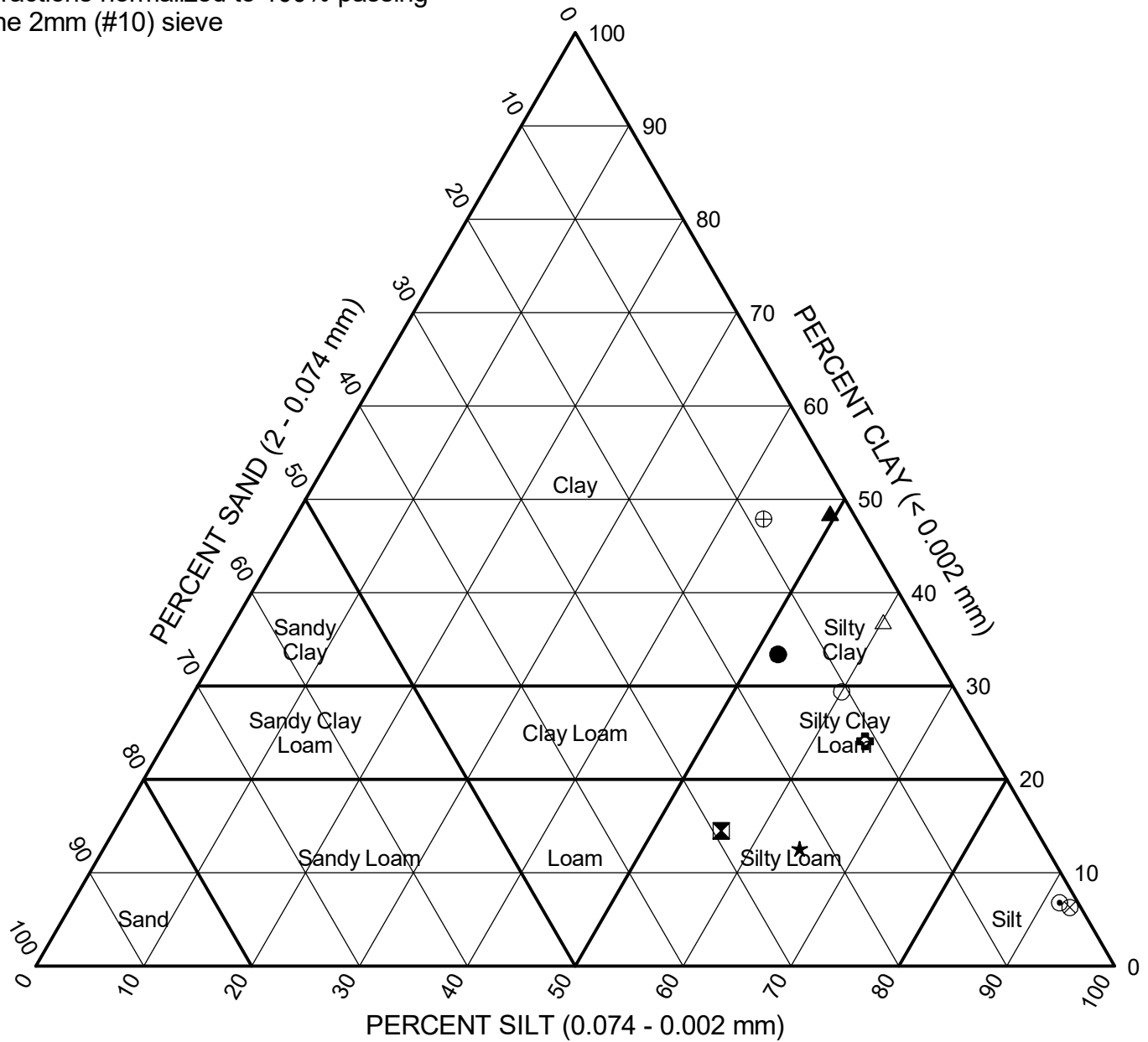
IDH Textural Classification Chart

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Number: 1100-04-01

Fractions normalized to 100% passing the 2mm (#10) sieve



	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	1712-B-02#9	21.0	14.5	52.1	33.4	Silty Clay	A-6 (13)	CL
⊗	1712-B-02#15	43.5	29.3	56.3	14.5	Silty Loam	A-6 (5)	CL
▲	1712-B-02#17	53.5	2.0	49.4	48.5	Clay	A-6 (17)	CL
★	1712-B-02#20	68.5	23.0	64.5	12.6	Silty Loam	A-4 (1)	CL-ML
⊙	1712-B-02#23	83.5	1.7	91.5	6.8	Silt	A-4 (0)	ML
⊞	1715-B-01#21	73.5	11.0	64.8	24.1	Silty Clay Loam	A-6 (10)	CL
○	1715-B-01#24	88.5	10.6	60.0	29.4	Silty Clay Loam	A-6 (9)	CL
△	1715-B-03#16	48.5	3.1	60.1	36.9	Silty Clay	A-6 (18)	CL
⊗	1715-B-03#23	83.5	1.1	92.7	6.3	Silt	A-4 (0)	ML
⊙	2054-B-01#6	13.5	8.6	43.5	47.9	Clay	A-7-6 (21)	CL

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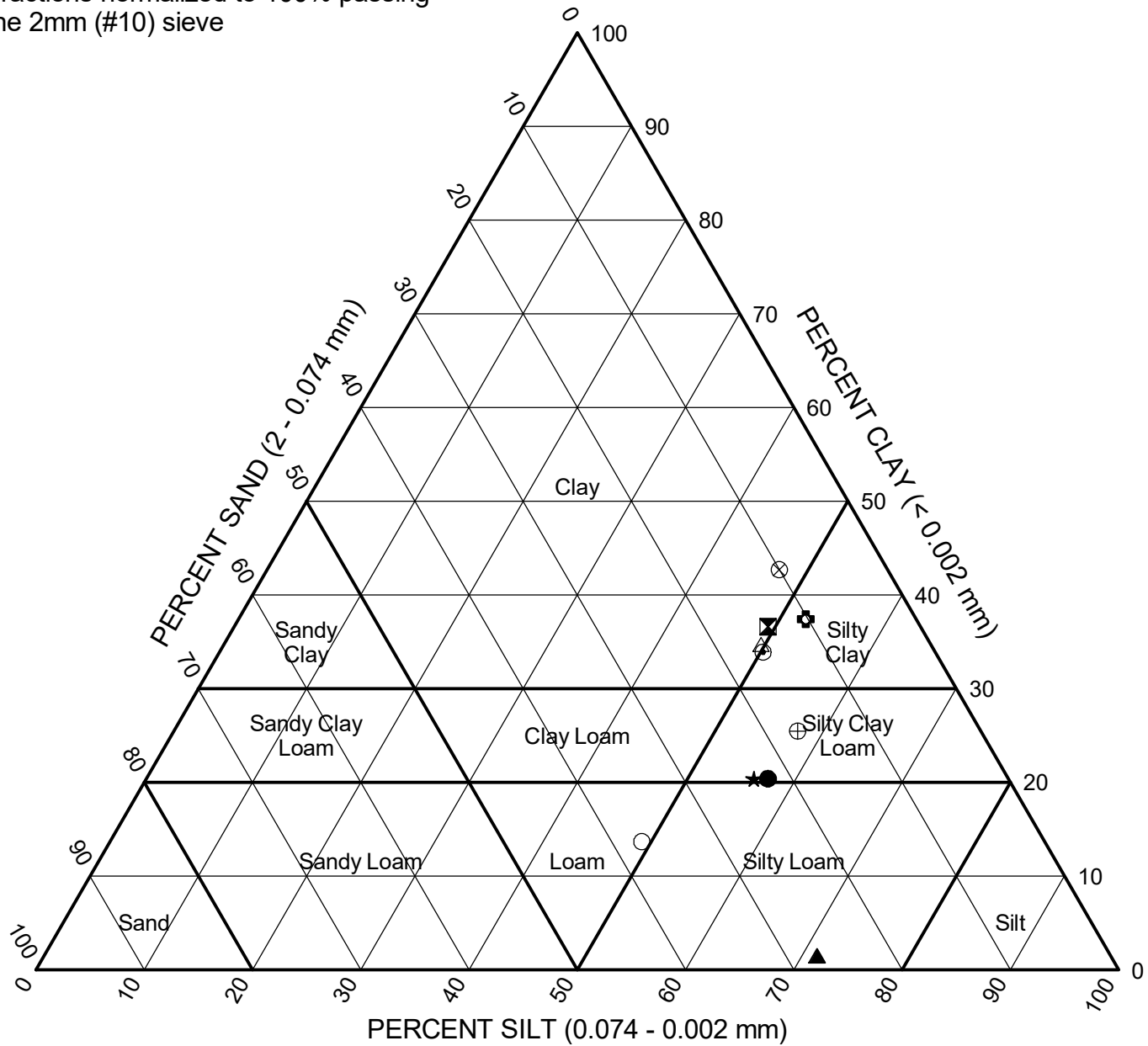


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IDH Textural Classification Chart

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Fractions normalized to 100% passing the 2mm (#10) sieve



Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● 2054-B-02#15	43.5	22.2	57.4	20.4	Silty Clay Loam	A-6 (6)	CL
⊠ 2054-B-03#13	33.5	14.1	49.3	36.6	Clay	A-6 (15)	CL
▲ 2054-B-03#23	83.5	27.1	71.4	1.5	Silty Loam	A-4 (0)	ML
★ 2055-B-02#23	83.5	23.6	56.1	20.4	Silty Clay Loam	A-6 (6)	CL
⊙ 2055-B-04#7	16.0	15.9	50.2	33.9	Silty Clay	A-6 (15)	CL
⊕ 2055-B-04#14	38.5	10.2	52.4	37.4	Silty Clay	A-6 (16)	CL
○ 2055-B-04#15	43.5	37.2	49.1	13.7	Gravelly Loam	A-4 (2)	CL
△ 2055-B-05#6	13.5	15.7	49.6	34.7	Clay	A-6 (15)	CL
⊗ 2055-B-05#14	38.5	9.9	47.3	42.7	Clay	A-6 (19)	CL
⊕ 20-RWB-01#7	16.0	16.9	57.6	25.5	Silty Clay Loam	A-6 (10)	CL

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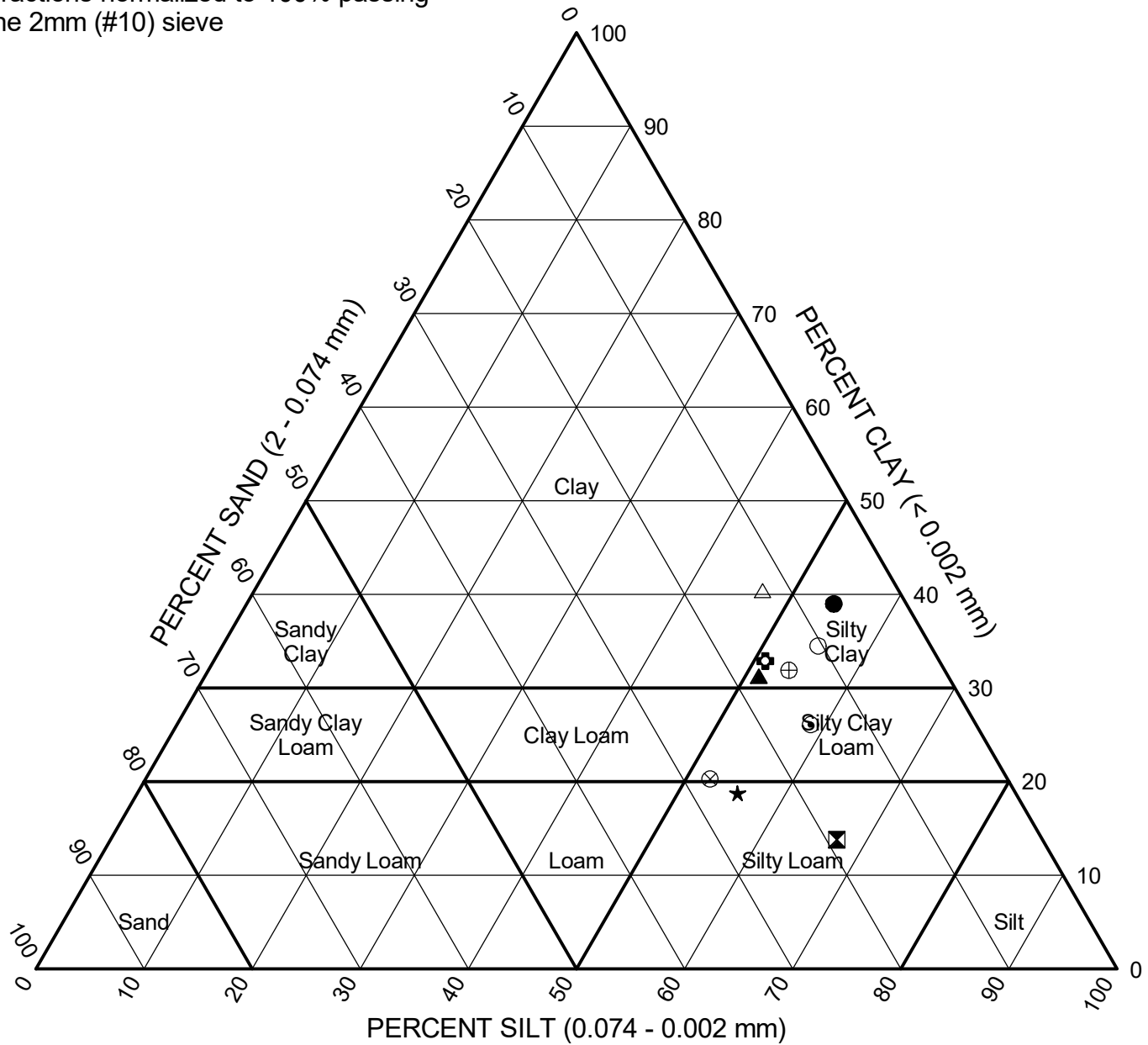


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IDH Textural Classification Chart

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Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● 20-RWB-01#16	48.5	6.8	54.3	39.0	Silty Clay	A-6 (16)	CL
⊠ 21-RWB-02#24	89.0	19.1	67.2	13.8	Silty Loam	A-4 (3)	CL
▲ 21-RWB-04#10	23.5	17.4	51.2	31.3	Silty Clay	A-6 (11)	CL
★ 21-RWB-05#18	58.5	25.8	55.5	18.8	Silty Loam	A-4 (4)	CL
⊙ 22-RWB-03#6	13.5	15.4	58.6	26.1	Silty Clay Loam	A-6 (10)	CL
⊕ 22-RWB-03#13	33.5	16.1	51.0	32.9	Silty Clay	A-6 (11)	CL
○ 22-RWB-03#18	58.5	10.4	55.1	34.5	Silty Clay	A-6 (14)	CL
△ 23-RWB-03#12	28.5	12.7	47.0	40.4	Clay	A-6 (15)	CL
⊗ 23-RWB-03#15	43.5	27.4	52.2	20.3	Silty Clay Loam	A-4 (4)	CL
⊕ 24-RWB-03#8	18.5	14.2	53.7	31.9	Silty Clay	A-6 (11)	CL

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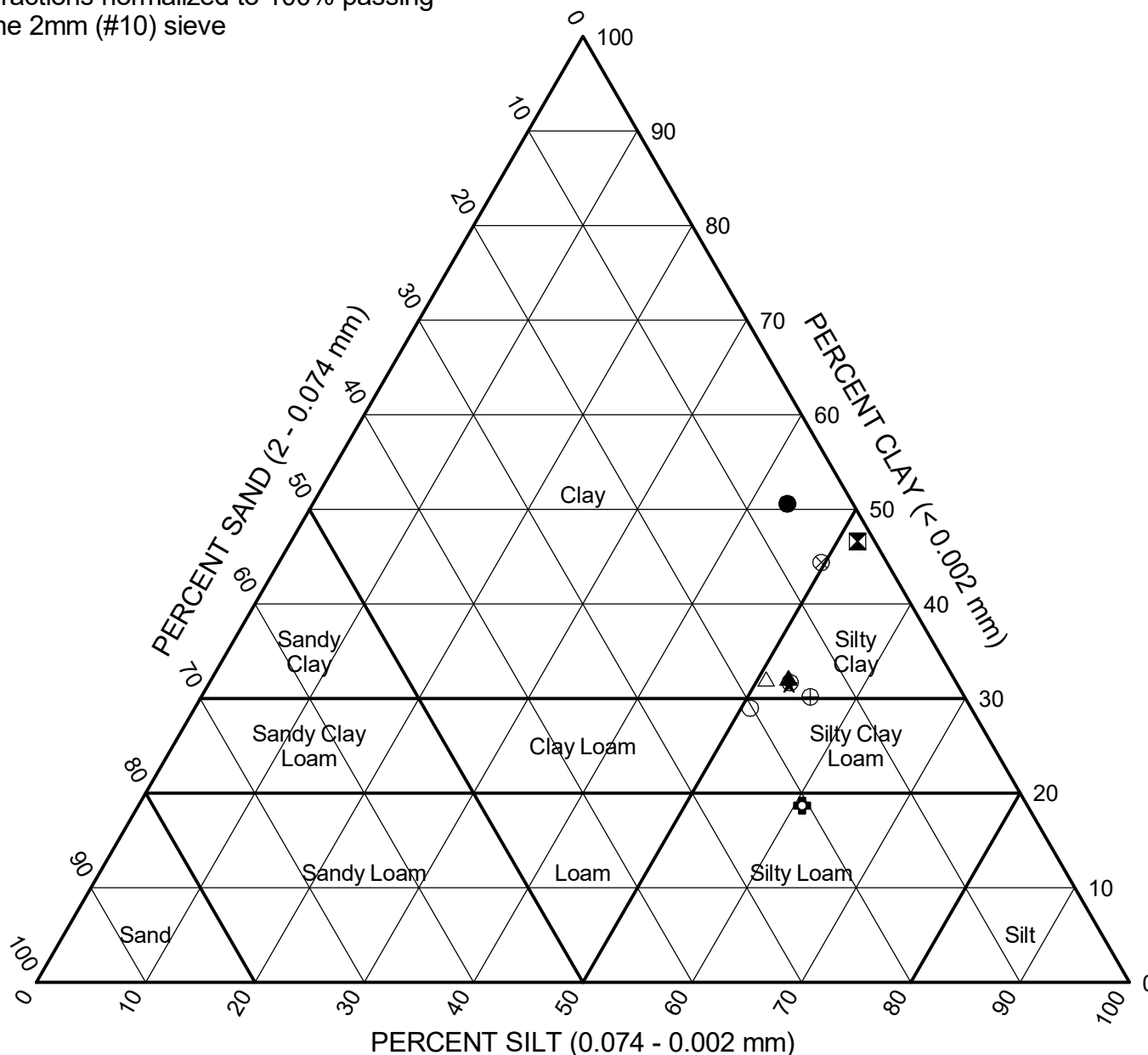


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Symbol	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	24-RWB-03#17	53.5	5.9	43.4	50.6	Clay	A-7-6 (23)	CL
⊠	27-RWB-02#18	58.5	1.6	51.8	46.6	Silty Clay	A-7-6 (23)	CL
▲	27-RWB-03#10	23.5	15.2	52.7	32.2	Silty Clay	A-6 (13)	CL
★	28-RWB-01#15	43.5	15.5	53.1	31.5	Silty Clay	A-6 (10)	CL
⊙	29-RWB-01#13	33.5	15.3	53.1	31.7	Silty Clay	A-6 (11)	CL
⊞	29-RWB-01#18	58.5	20.6	60.7	18.7	Silty Loam	A-4 (5)	CL
○	30-RWB-03#1	13.5	20.1	50.8	29.0	Silty Clay Loam	A-6 (10)	CL
△	30-RWB-03#4	28.5	17.2	50.7	32.1	Silty Clay	A-6 (12)	CL
⊗	31-RWB-01#17	53.5	5.9	49.6	44.4	Clay	A-6 (19)	CL
⊕	31-RWB-03#12	28.5	14.1	55.7	30.2	Silty Clay	A-6 (10)	CL

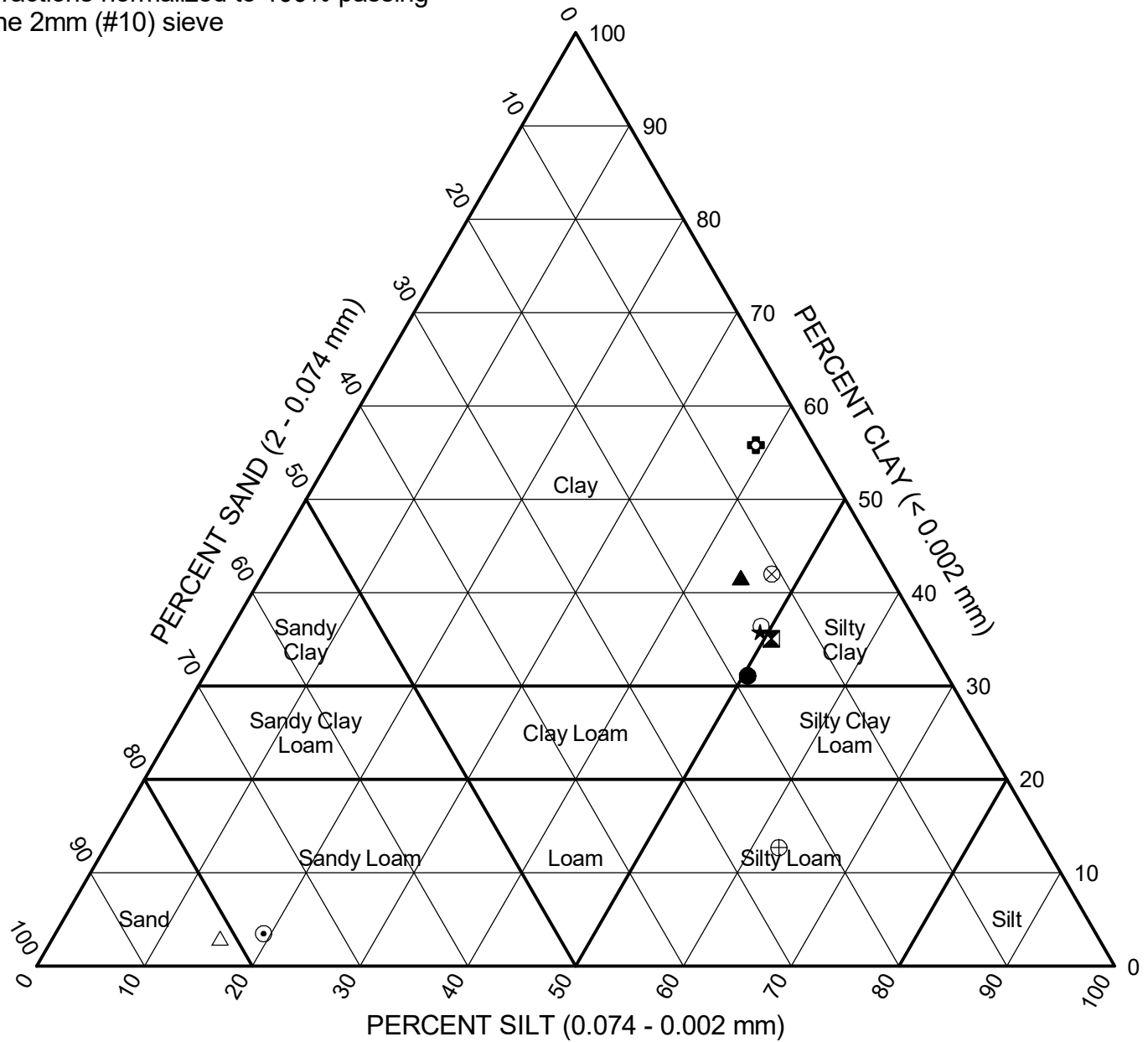


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the 2mm (#10) sieve



Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● 2-RWB-03B#2	18.5	18.4	50.4	31.1	Silty Clay	A-6 (12)	CL
⊗ 2-RWB-03B#5	33.5	14.3	50.6	35.1	Silty Clay	A-6 (13)	CL
▲ 33-RWB-02#9	21.0	13.9	44.5	41.6	Clay	A-6 (17)	CL
★ BFB-01#6	13.5	14.9	49.2	35.8	Clay	A-6 (13)	CL
◉ BFB-01#21	63.5	77.3	19.3	3.5	Gravelly Sandy Loam	A-1-b (0)	SM
⊕ BFB-02#2	3.5	5.3	38.8	55.8	Clay	A-7-6 (24)	CL
○ BFB-02#9	21.0	14.5	49.0	36.4	Clay	A-6 (13)	CL
△ BFB-02#21	63.5	81.4	15.5	3.0	Sand	A-1-b (0)	SM
⊗ BFB-03#13	31.0	10.9	47.2	42.0	Clay	A-6 (15)	CL
⊕ BFB-03#16	38.5	24.9	62.5	12.7	Silty Loam	A-4 (0)	ML



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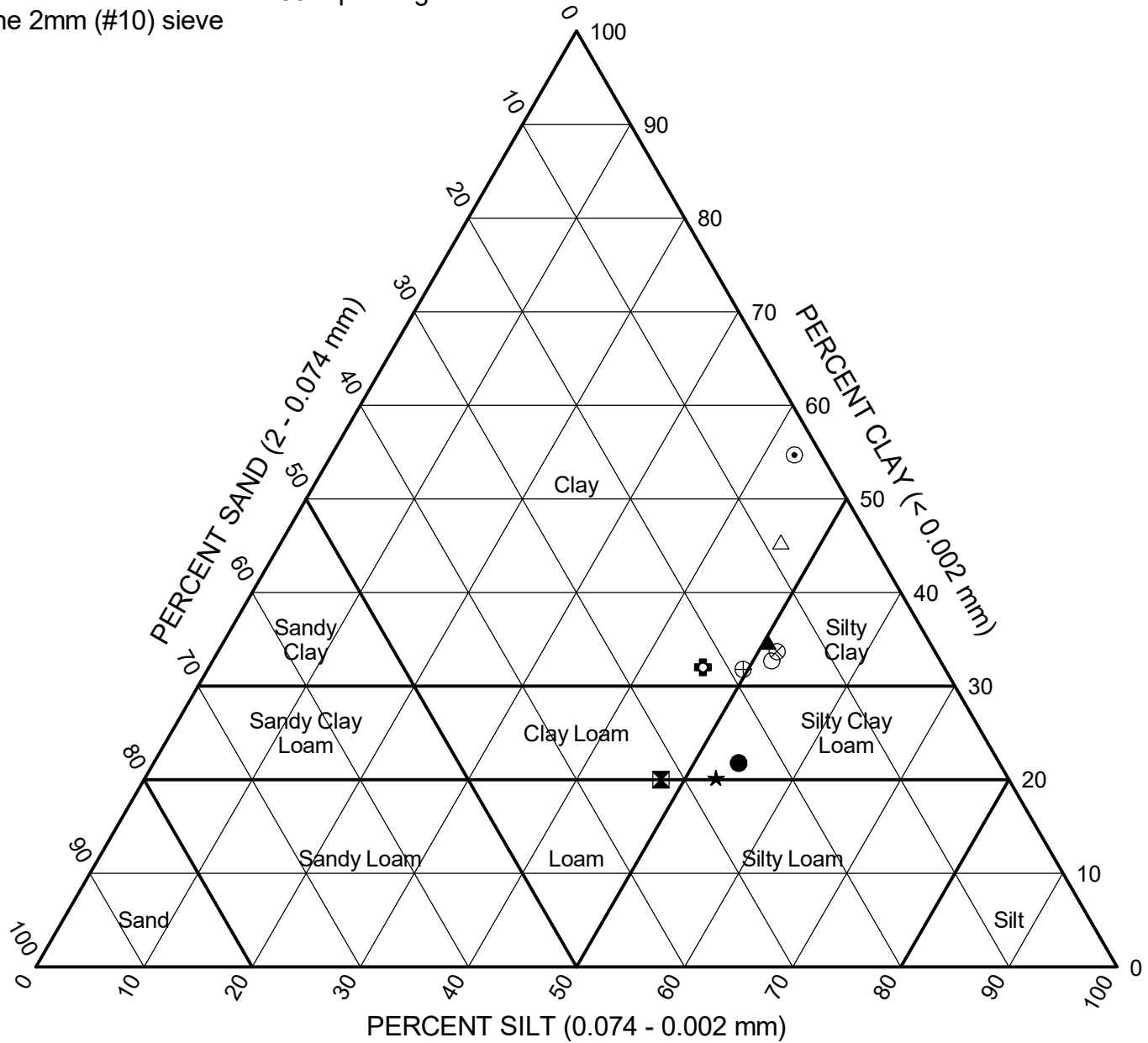
IDH Textural Classification Chart

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Number: 1100-04-01

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	Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
						IL DOT	AASHTO	ASTM
●	BFB-03#23	73.5	24.1	54.1	21.8	Silty Clay Loam	A-4 (3)	CL
⊠	BFB-04#2	3.5	32.2	47.8	20.0	Clay Loam	A-4 (2)	CL
▲	BFB-04#9	21.0	15.0	50.3	34.7	Silty Clay	A-6 (12)	CL
★	BFB-04#17	43.5	27.0	52.8	20.2	Silty Clay Loam	A-4 (2)	CL
⊙	BFB-04#24	78.5	2.4	42.8	54.7	Clay	A-7-6 (23)	CL
⊕	NB90-SGB-03#2	3.5	22.3	45.7	32.0	Clay	A-7-6 (15)	CL
⊗	NB90-SGB-07#2	3.5	15.6	51.7	32.7	Silty Clay	A-6 (12)	CL
△	NB90-SGB-10#3	5.0	8.2	46.2	45.4	Clay	A-7-6 (22)	CL
⊗	NB90-SGB-13#2	3.0	14.6	51.7	33.7	Silty Clay	A-6 (13)	CL
⊕	NB90-SGB-16B#2	3.0	18.7	49.5	31.8	Clay	A-6 (12)	CL

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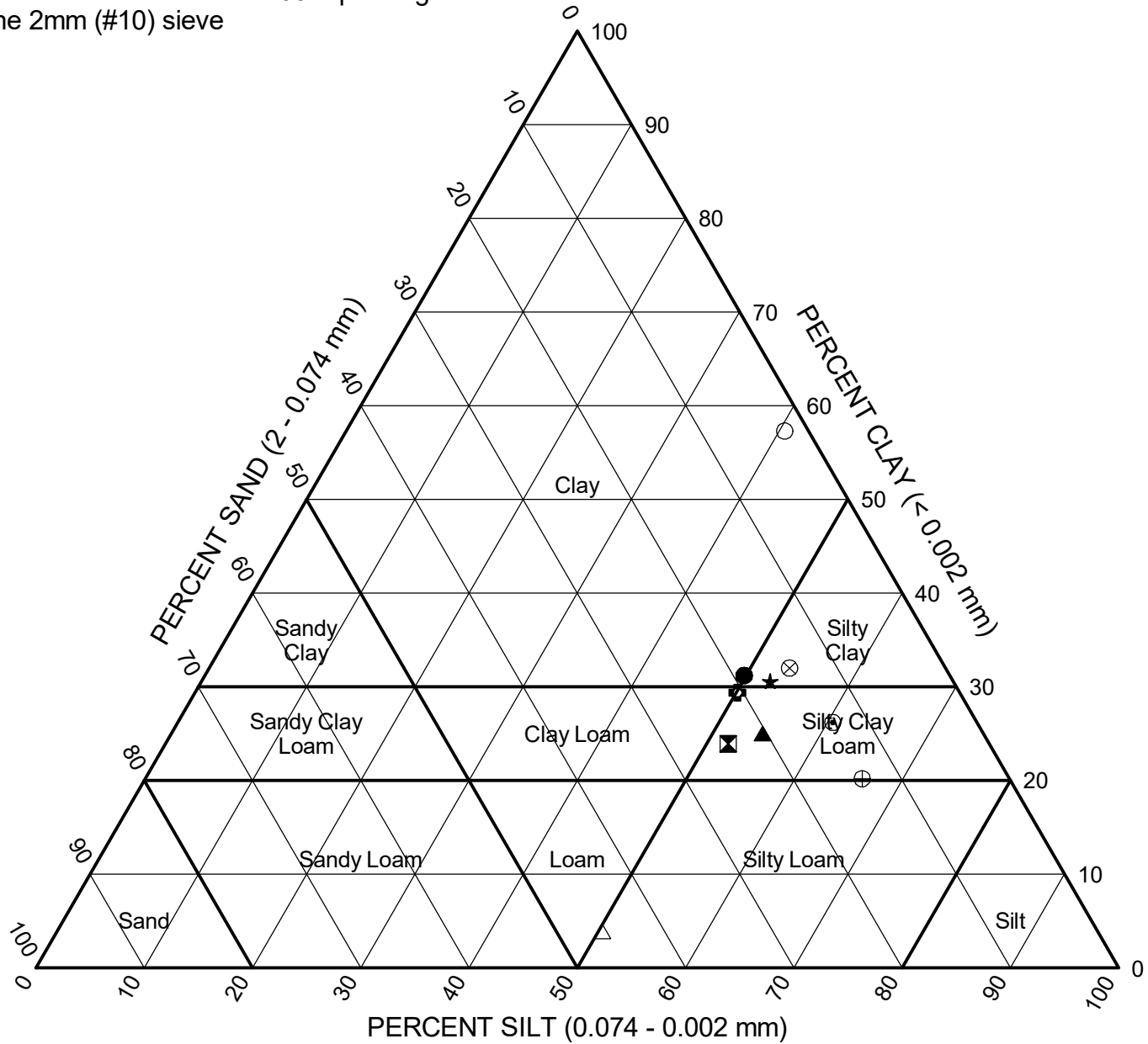


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Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● SB90-SGB-21#2	3.0	19.0	49.8	31.2	Clay	A-6 (12)	CL
☒ SB90-SGB-23#2	3.0	24.3	52.0	23.9	Silty Clay Loam	A-6 (9)	CL
▲ SB90-SGB-02#2	3.0	20.4	54.6	25.0	Silty Clay Loam	A-6 (9)	CL
☆ SB90-SGB-06#2	3.5	17.0	52.5	30.6	Silty Clay	A-6 (11)	CL
⊙ SB90-SGB-10#2	3.0	13.3	60.5	26.2	Silty Clay Loam	A-6 (11)	CL
⊕ SB90-SGB-15#2	3.0	20.4	50.1	29.4	Silty Clay Loam	A-6 (9)	CL
○ SB90-SGB-18#3	5.0	2.2	40.5	57.3	Clay	A-7-6 (33)	CH
△ SB90-SGB-20#	3.0	45.7	50.4	3.9	Silty Loam	A-4 (0)	ML
⊗ SB90-SGB-22#1	1.0	14.4	53.6	32.0	Silty Clay	A-6 (11)	CL
⊖ SB90-SGB-24#2	3.5	13.7	66.2	20.2	Silty Clay Loam	A-6 (8)	CL



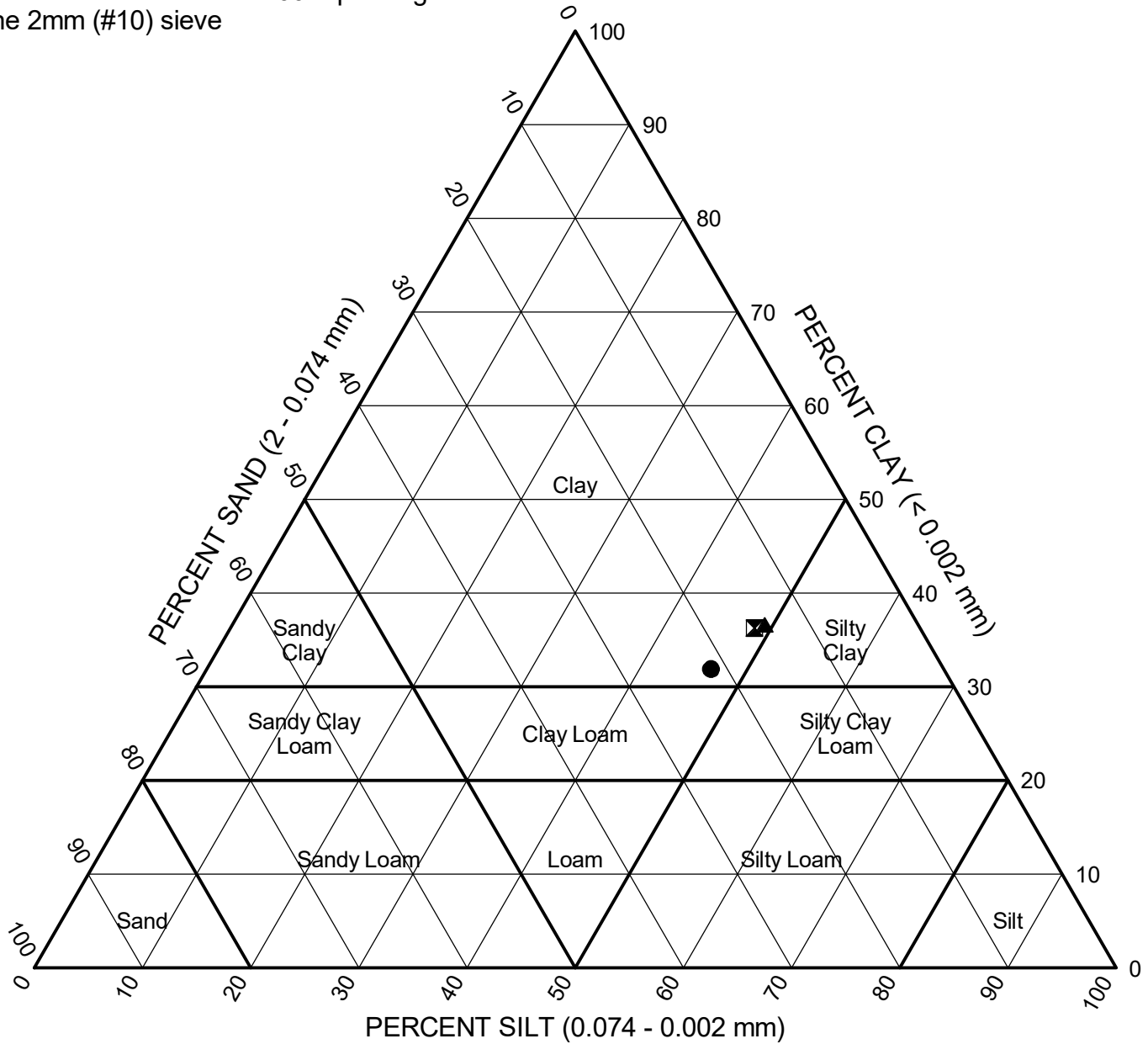
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Sample	Depth (ft)	Sand (%)	Silt (%)	Clay (%)	Classification		
					IL DOT	AASHTO	ASTM
● 051-RWB-04#7	15.0	21.6	46.6	31.9	Clay	A-6 (9)	CL
⊠ 051-RWB-04#11	25.0	15.3	48.4	36.3	Clay	A-6 (12)	CL
▲ 051-RWB-04#15	35.0	14.2	49.2	36.6	Clay	A-6 (12)	CL

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APPENDIX D

Proposed Pavement Structure

- I-90/94 NB and Connecting Ramps
- I-90/94 SB and Connecting Ramps

- I-90/94 NB and Connecting Ramps

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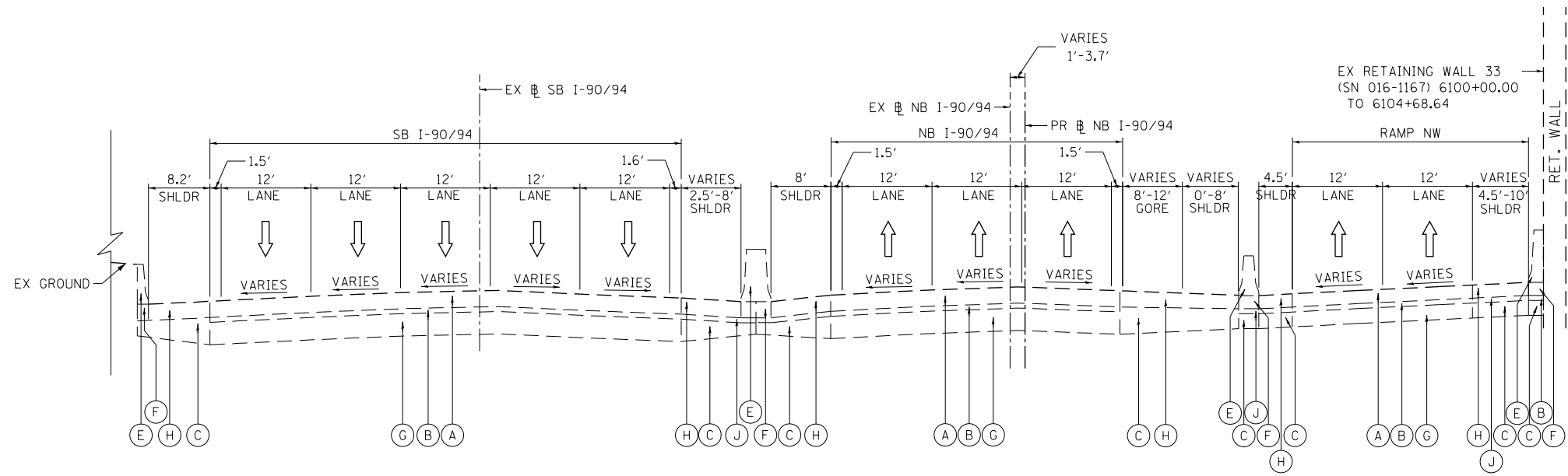
PROPOSED

- ① CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- ② PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS 11"
- ⑦ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- ⑧ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- ⑨ PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- ⑩ PORTLAND CEMENT CONCRETE PAVEMENT 9"
- ⑪ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- ⑫ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- ⑬ PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- ⑭ TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- ⑮ SUBBASE GRANULAR MATERIAL, TYPE C 4"
- ⑯ CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- ⑰ CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- ⑱ CONCRETE BARRIER BASE
- ⑲ CONCRETE BARRIER BASE (SPECIAL NO. 1)
- ⑳ CONCRETE GUTTER TYPE A
- ㉑ CONCRETE MEDIAN SURFACE, 4"
- ㉒ CONCRETE CURB, TYPE B
- ㉓ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ㉔ PIPE UNDERDRAINS, TYPE 2, 6"
- ㉕ TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING,
- ㉖ (SEE EROSION CONTROL PLANS) 34
- ㉗ TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- ㉘ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- ㉙ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

- 1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
- 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
- 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
- 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

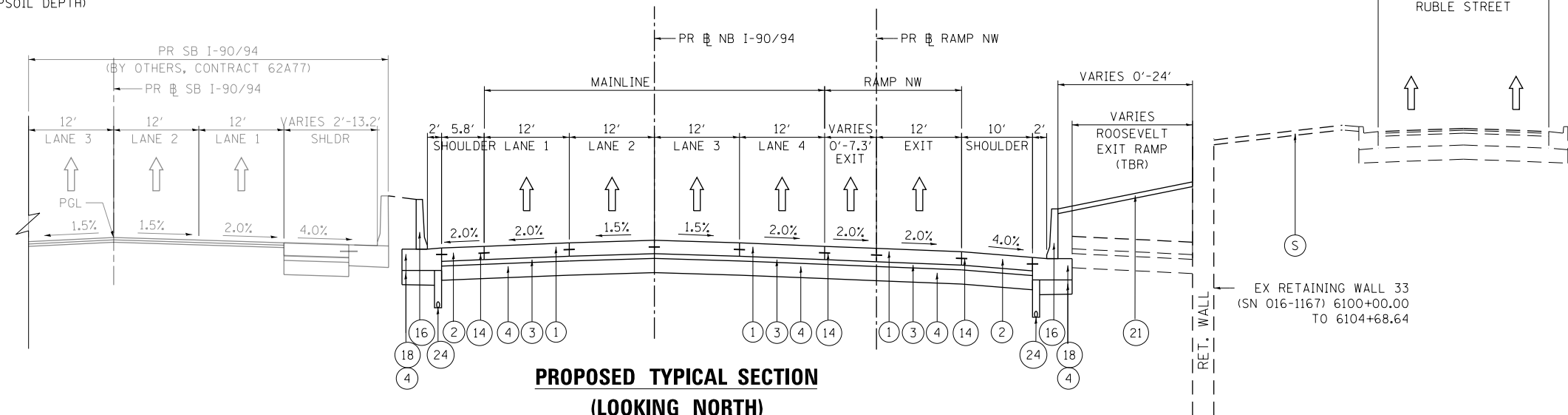
*SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



EXISTING

- Ⓐ CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- Ⓑ STABILIZED SUBBASE, 4"
- Ⓒ POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- Ⓓ HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- Ⓔ CONCRETE BARRIER
- Ⓕ CONCRETE BARRIER BASE
- Ⓖ SUBBASE GRANULAR MATERIAL, 12"
- Ⓗ HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- Ⓘ TEMPORARY PAVEMENT
- Ⓝ SUBBASE GRANULAR MATERIAL, 4"
- Ⓚ AGGREGATE SUBGRADE 12"
- Ⓛ PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- Ⓜ SUBBASE GRANULAR MATERIAL, 8"
- Ⓝ CONCRETE MEDIAN SURFACE
- Ⓞ PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- Ⓟ AGGREGATE SURFACE COURSE
- Ⓠ HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- Ⓡ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- Ⓢ GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

EXISTING TYPICAL SECTION (LOOKING NORTH)



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR NB I-90/94
 STA 6100+00.00 TO STA 6108+17.74



DI62A76-sht-Typical-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = nrhochstetler	DRAWN - MRC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

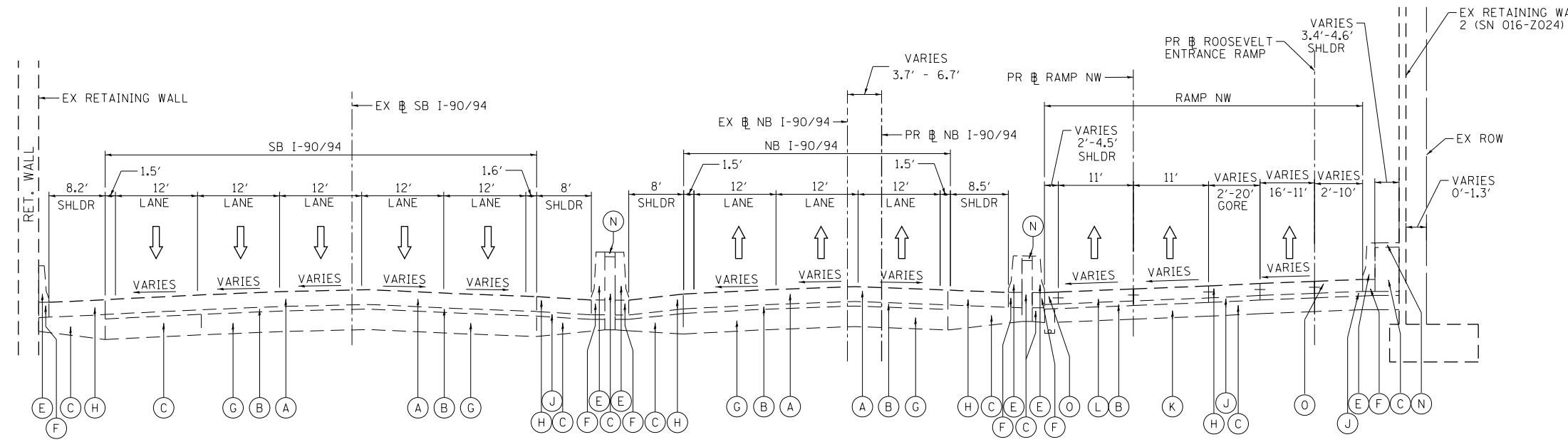
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DRAWN - MRC	REVISED -
CHECKED - JMG	REVISED -
DATE - 9/6/19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
I-90/94	
SCALE: NONE	SHEET 1 OF 17 SHEETS
STA.	TO STA.

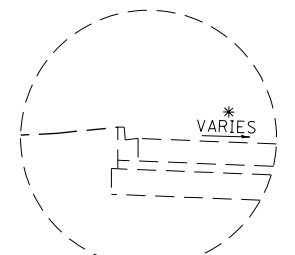
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	27
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

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**EXISTING TYPICAL SECTION
(LOOKING NORTH)**

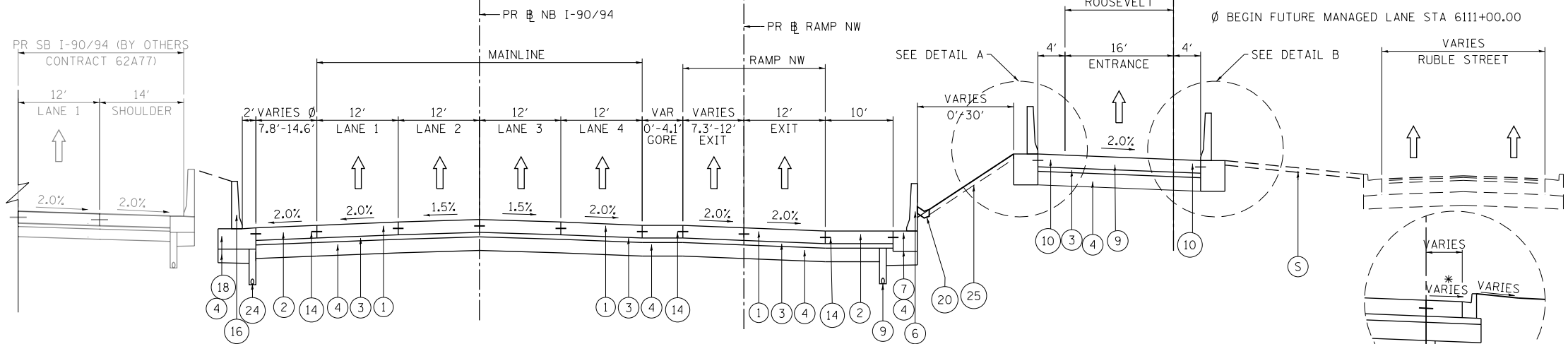
PR NB I-90/94
STA 6110+60.77 TO STA 6113+40.77



DETAIL A
CURB AND GUTTER FROM:
STA 6108+17.74 TO STA 6109+89.07

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABILIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)



**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6108+17.74 TO STA 6111+29.73

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (23) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (24) PIPE UNDERDRAINS, TYPE 2, 6"
- (25) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- *SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



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USER NAME = nrhochstetler	DRAWN - TTP	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
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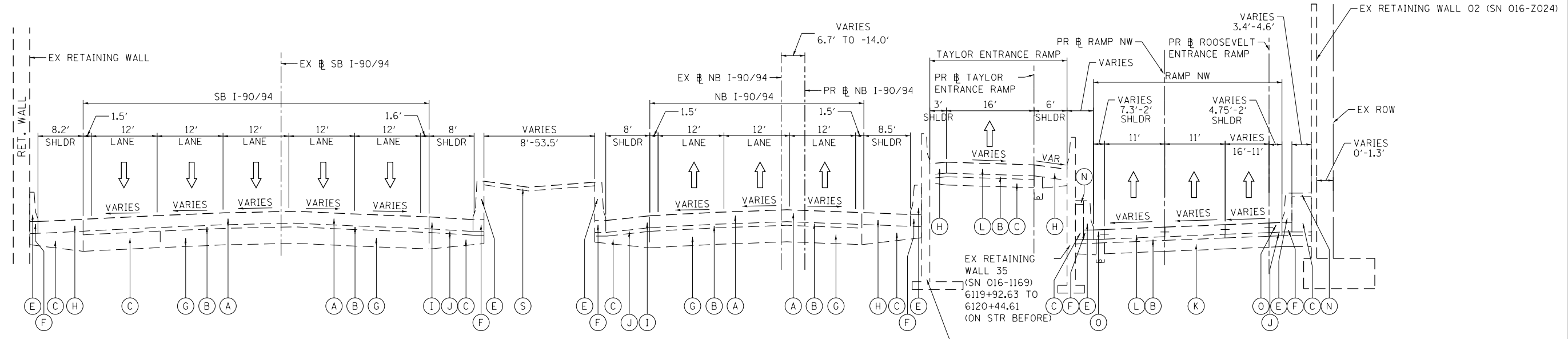
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
I-90/94**

SCALE: NONE SHEET 2 OF 17 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	28
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

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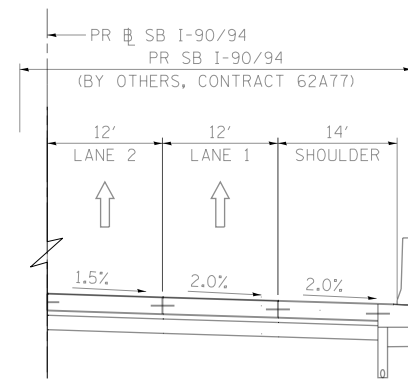
PROPOSED

- 1 CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- 2 PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- 3 STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- 4 AGGREGATE SUBGRADE IMPROVEMENT 12"
- 5 PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- 6 PORTLAND CEMENT CONCRETE SHOULDERS 11"
- 7 PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- 8 PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- 9 PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- 10 PORTLAND CEMENT CONCRETE PAVEMENT 9"
- 11 PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- 12 PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- 13 PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- 14 TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- 15 SUBBASE GRANULAR MATERIAL, TYPE C 4"
- 16 CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- 17 CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- 18 CONCRETE BARRIER BASE
- 19 CONCRETE BARRIER BASE (SPECIAL NO. 1)
- 20 CONCRETE GUTTER TYPE A
- 21 CONCRETE MEDIAN SURFACE, 4"
- 22 CONCRETE CURB, TYPE B
- 23 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- 24 PIPE UNDERDRAINS, TYPE 2, 6"
- 25 TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- 26 TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- 27 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- 28 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

*SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

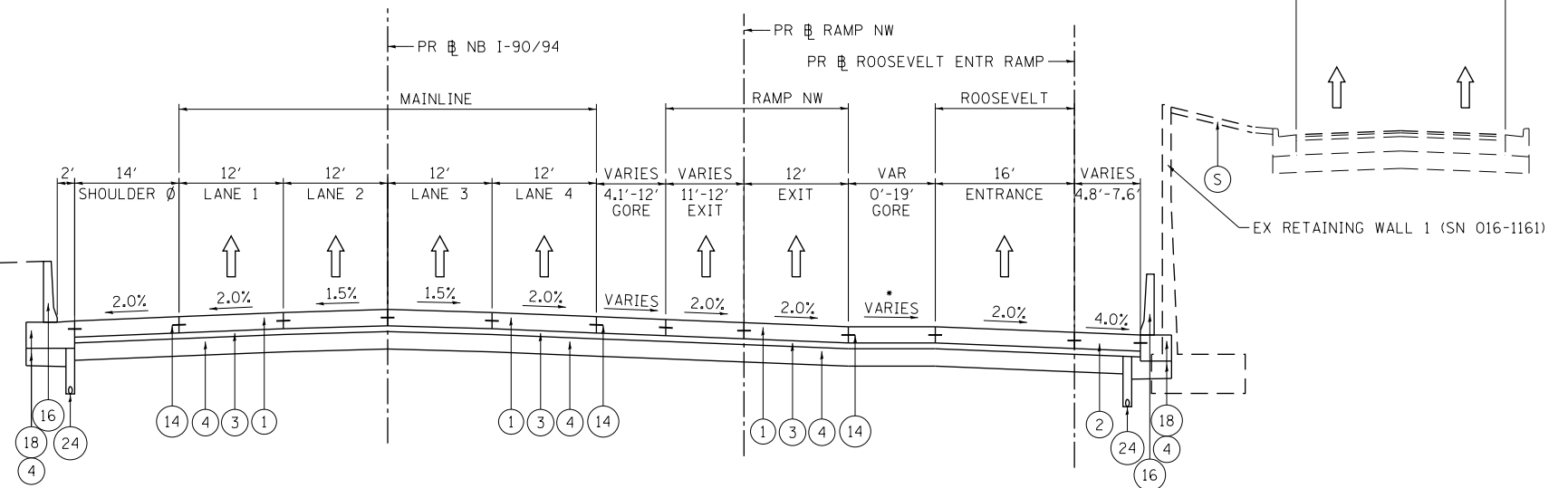


EXISTING

- A CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- B STABILIZED SUBBASE, 4"
- C POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- D HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- E CONCRETE BARRIER
- F CONCRETE BARRIER BASE
- G SUBBASE GRANULAR MATERIAL, 12"
- H HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- I TEMPORARY PAVEMENT
- J SUBBASE GRANULAR MATERIAL, 4"
- K AGGREGATE SUBGRADE 12"
- L PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- M SUBBASE GRANULAR MATERIAL, 8"
- N CONCRETE MEDIAN SURFACE
- O PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- P AGGREGATE SURFACE COURSE
- Q HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- R COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6
- S GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPT)

EXISTING TYPICAL SECTION (LOOKING NORTH)

PR NB I-90/94
 STA 6113+40.77 TO STA 6120+44.61



PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR NB I-90/94
 STA 6111+29.73 TO STA 6114+64.26

Ø BEGIN FUTURE MANAGED LANE STA 6111+00.00



D162A76-sht-Typical-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = nrhochstetler	DRAWN - TTP	REVISED -
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PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

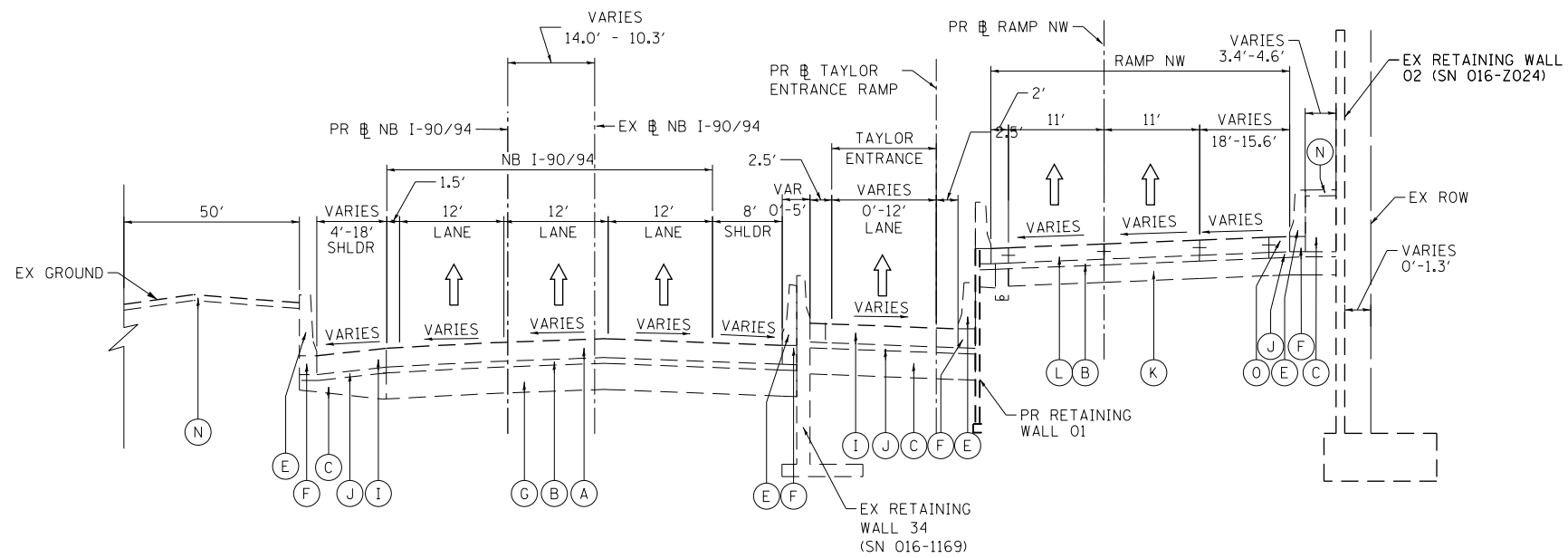
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 I-90/94

SCALE: NONE SHEET 3 OF 17 SHEETS STA. TO STA.

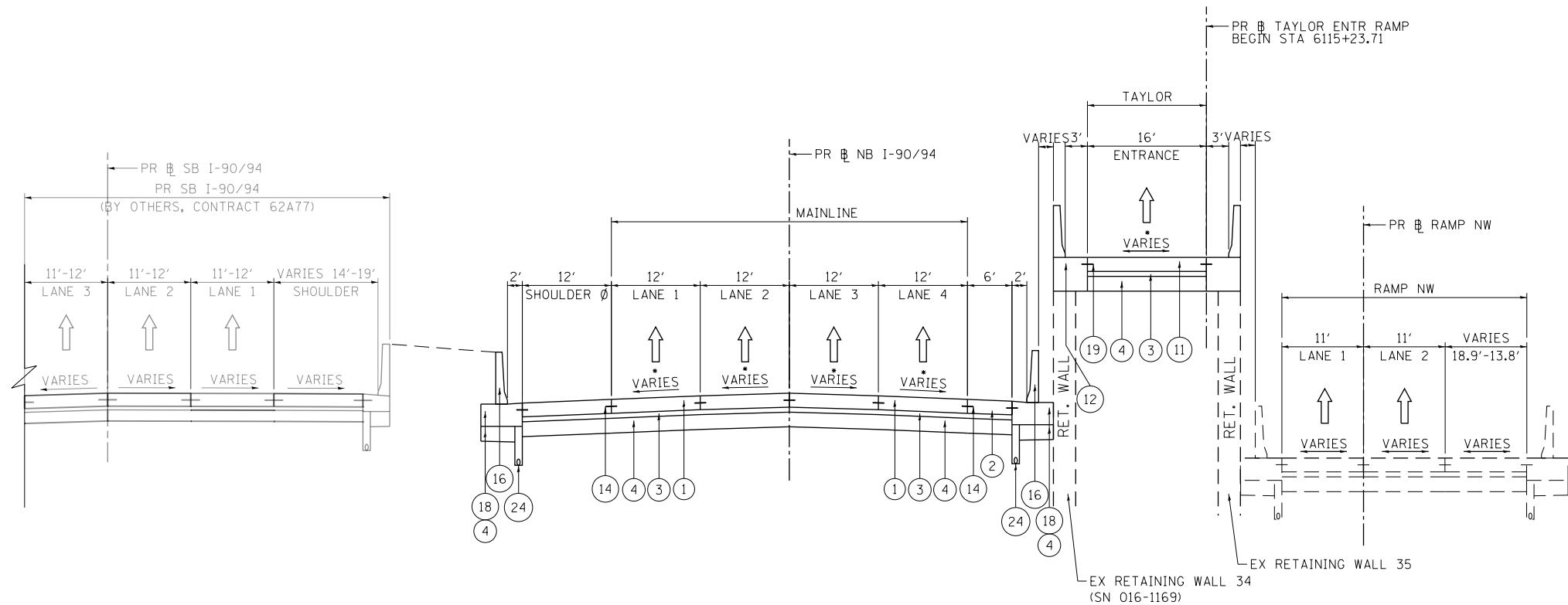
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90/94/290	2015-019R	COOK	2015	29
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

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**EXISTING TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
 STA 6120+44.61 TO STA 6121+59.43



**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
 STA 6114+64.26 TO STA 6119+92.46

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABILIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (23) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (24) PIPE UNDERDRAINS, TYPE 2, 6"
- (25) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

•SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

Ø BEGIN FUTURE MANAGED LANE STA 6111+00.00



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USER NAME = nrhochstetler	DRAWN - TTP	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

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DRAWN - TTP	REVISED -
CHECKED - JMG	REVISED -
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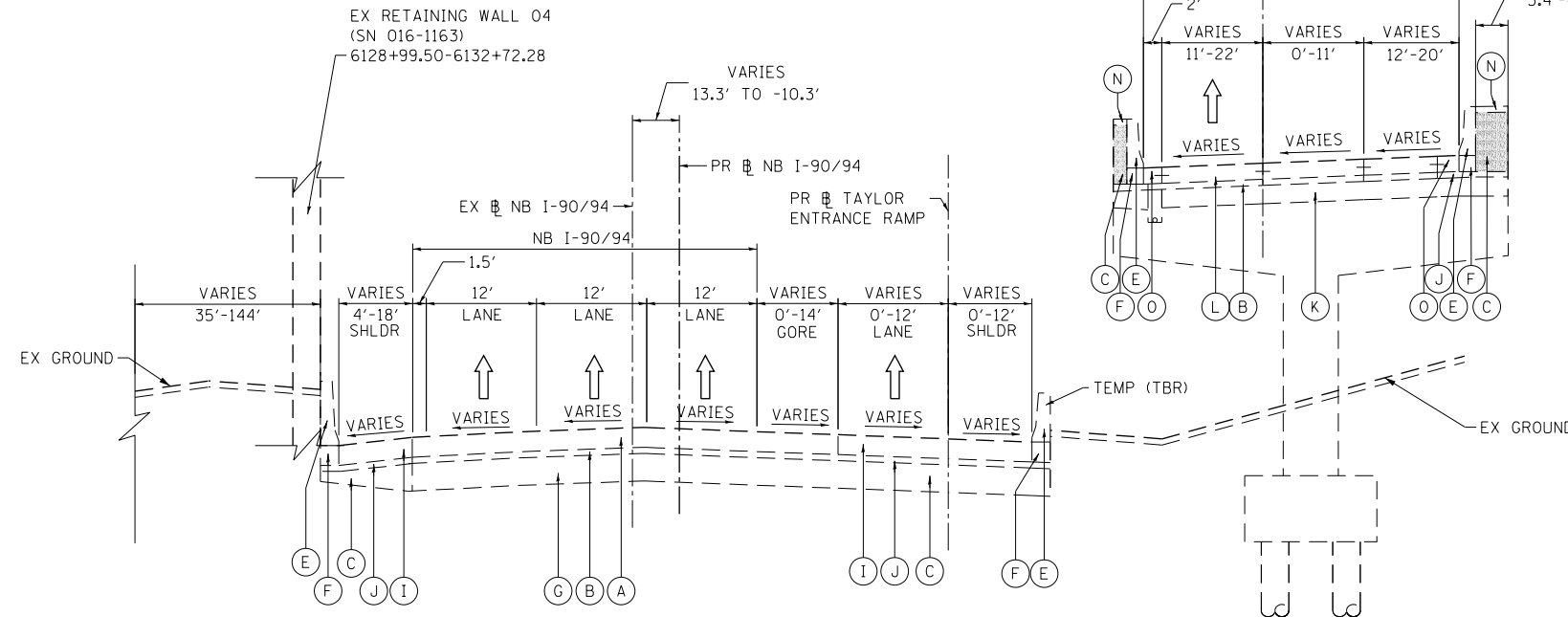
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
I-90/94**

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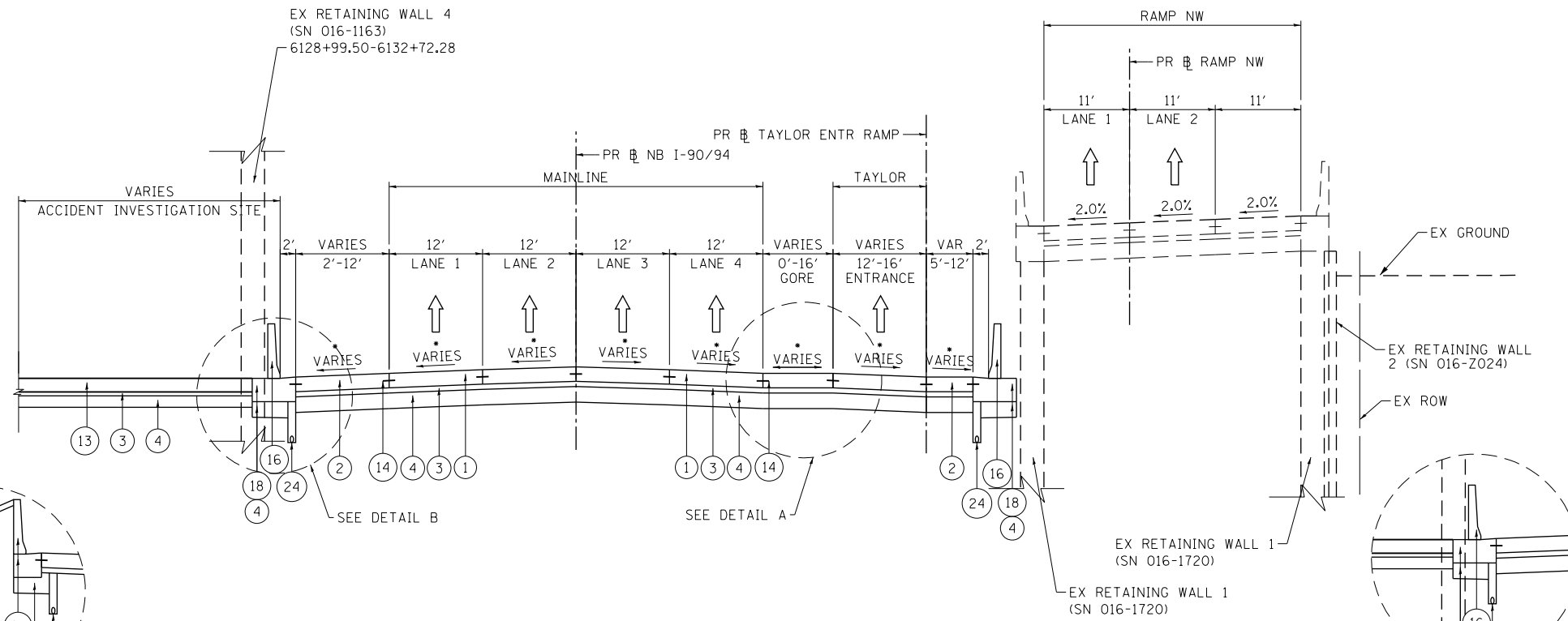
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90/94/290	2015-019R	COOK	2015	30
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

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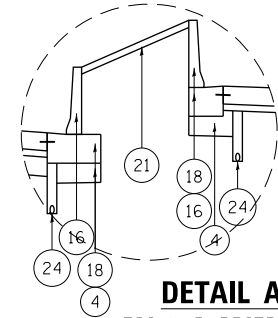
**EXISTING TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6121+59.43 TO STA 6138+60.62

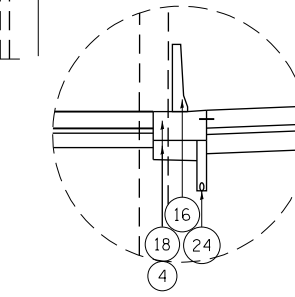


**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6119+92.46 TO STA 6128+29.23



DETAIL A
MEDIAN BARRIER FROM:
STA 6120+44.59 TO STA 6121+95.31



DETAIL B
MEDIAN BARRIER FROM:
STA 6120+44.59 TO STA 6121+95.31

EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABILIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
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- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
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- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (23) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (24) PIPE UNDERDRAINS, TYPE 2, 6"
- (25) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

*SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



D162A76-shr-Typical-01.dgn	DESIGNED - MKW	REVISED -
USER NAME = nrhochstetler	DRAWN - TTP	REVISED -
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PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

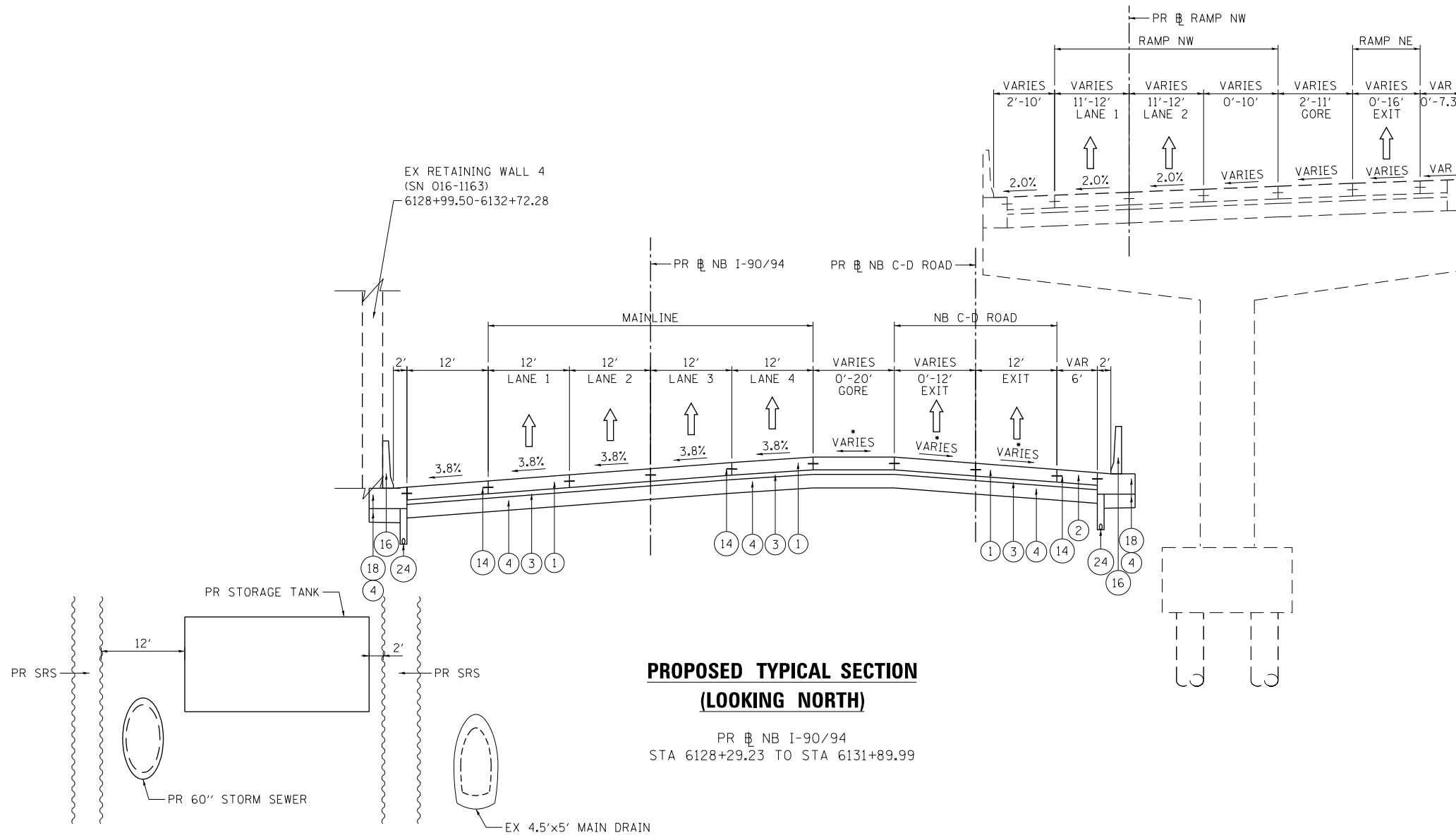
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
I-90/94**

SCALE: NONE SHEET 5 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	31
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

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PROPOSED TYPICAL SECTION (LOOKING NORTH)

PR NB I-90/94
STA 6128+29.23 TO STA 6131+89.99

PROPOSED

- 1 CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- 2 PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- 3 STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- 4 AGGREGATE SUBGRADE IMPROVEMENT 12"
- 5 PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- 6 PORTLAND CEMENT CONCRETE SHOULDERS 11"
- 7 PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- 8 PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- 9 PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- 10 PORTLAND CEMENT CONCRETE PAVEMENT 9"
- 11 PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- 12 PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- 13 PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- 14 TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- 15 SUBBASE GRANULAR MATERIAL, TYPE C 4"
- 16 CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- 17 CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- 18 CONCRETE BARRIER BASE
- 19 CONCRETE BARRIER BASE (SPECIAL NO. 1)
- 20 CONCRETE GUTTER TYPE A
- 21 CONCRETE MEDIAN SURFACE, 4"
- 22 CONCRETE CURB, TYPE B
- 23 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- 24 PIPE UNDERDRAINS, TYPE 2, 6"
- 25 (SEE EROSION CONTROL PLANS) 34
- 26 TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- 27 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- 28 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 4. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



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 PLOT DATE = 9/5/2019

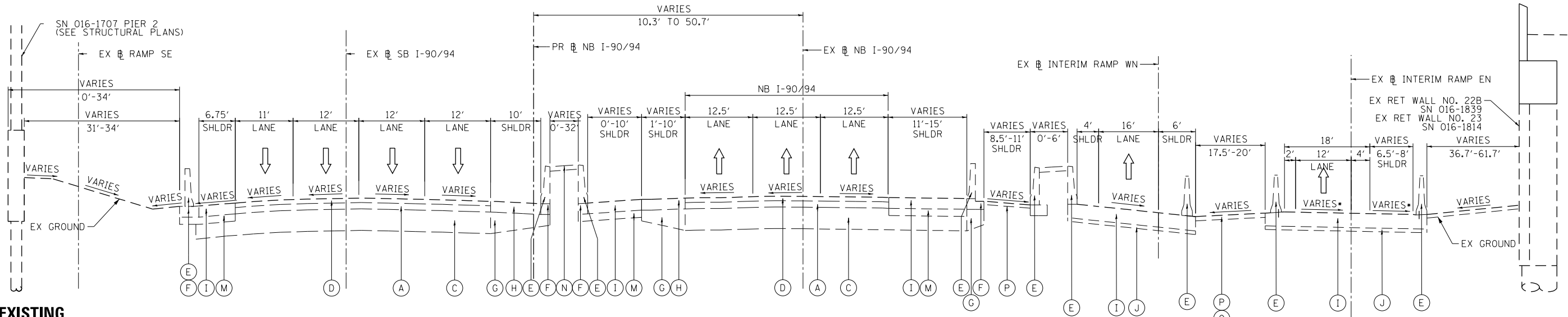
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 DRAWN - TTP
 CHECKED - JMG
 DATE - 9/6/19

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS
I-90/94
 SCALE: NONE SHEET 6 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	32
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

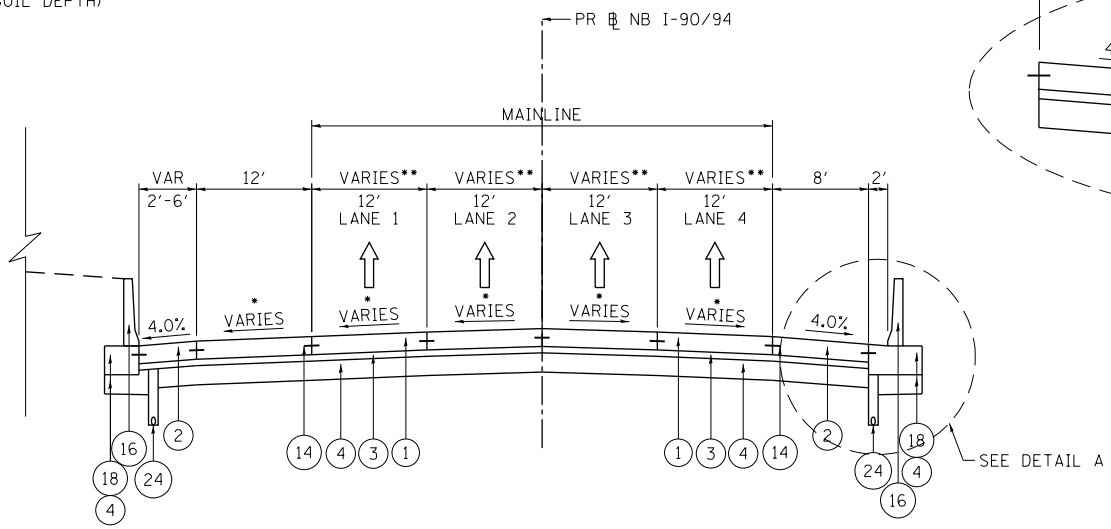


EXISTING

- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABILIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

**EXISTING TYPICAL SECTION
(LOOKING NORTH)**

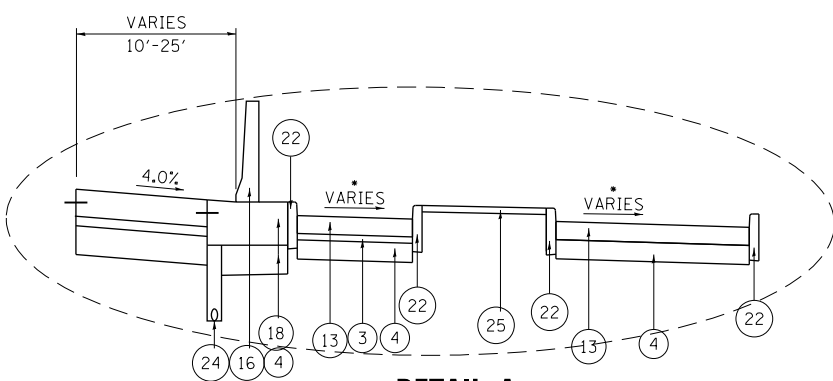
PR NB I-90/94
STA 6138+60.62 TO STA 6147+70.77



**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6131+89.99 TO STA 6139+26.76

** LANE TAPER FROM 12' TO 11'
STA 6137+60.77 TO 6139+26.76
++ MAINTENANCE LOT FROM
STA 6135+66.11 TO STA 6138+97.37



DETAIL A

MAINTENANCE LOT FROM
STA 6135+66.11 TO STA 6138+97.37

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (23) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (24) PIPE UNDERDRAINS, TYPE 2, 6"
- (25) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

- 1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 - 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 - 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 - 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- *SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

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PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS I-90/94	
SCALE: NONE	SHEET 7 OF 17 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	33
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

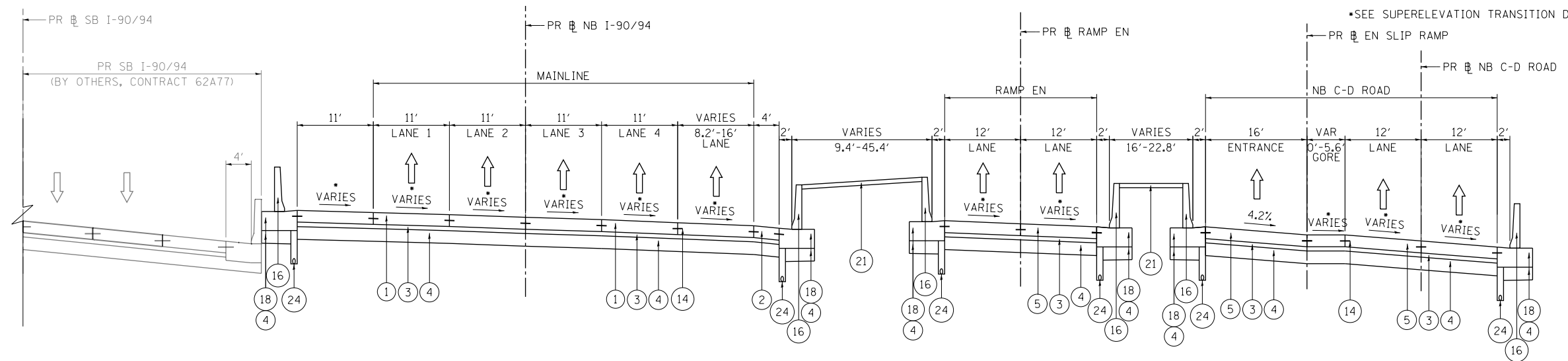
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PROPOSED

- ① CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- ② PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS 11"
- ⑦ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- ⑧ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- ⑨ PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- ⑩ PORTLAND CEMENT CONCRETE PAVEMENT 9"
- ⑪ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- ⑫ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- ⑬ PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- ⑭ TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- ⑮ SUBBASE GRANULAR MATERIAL, TYPE C 4"
- ⑯ CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- ⑰ CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- ⑱ CONCRETE BARRIER BASE
- ⑲ CONCRETE BARRIER BASE (SPECIAL NO. 1)
- ⑳ CONCRETE GUTTER TYPE A
- ㉑ CONCRETE MEDIAN SURFACE, 4"
- ㉒ CONCRETE CURB, TYPE B
- ㉓ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ㉔ PIPE UNDERDRAINS, TYPE 2, 6"
- ㉕ TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- ㉖ TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- ㉗ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- ㉘ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

- 1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 - 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 - 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 - 4. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6141+34.86 TO STA 6144+04.70



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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
I-90/94**

SCALE: NONE SHEET 9 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	35
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

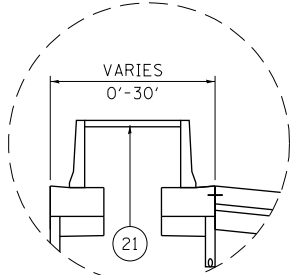
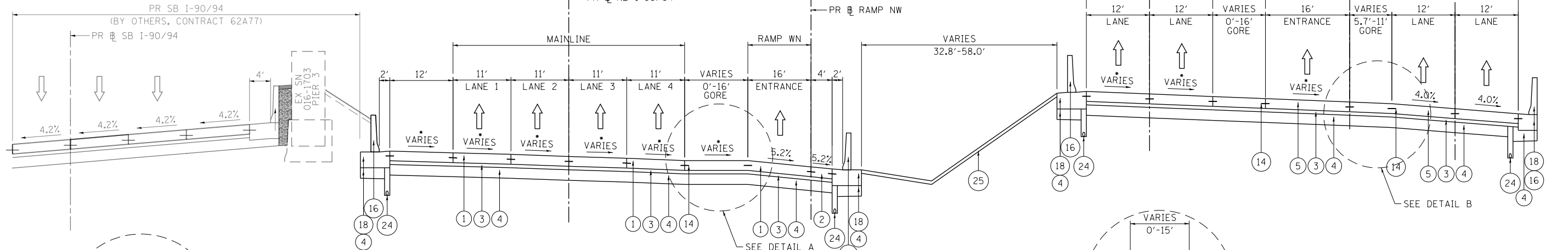
PROPOSED

- ① CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- ② PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS 11"
- ⑦ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- ⑧ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- ⑨ PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- ⑩ PORTLAND CEMENT CONCRETE PAVEMENT 9"
- ⑪ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- ⑫ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- ⑬ PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- ⑭ TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- ⑮ SUBBASE GRANULAR MATERIAL, TYPE C 4"
- ⑯ CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- ⑰ CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- ⑱ CONCRETE BARRIER BASE
- ⑲ CONCRETE BARRIER BASE (SPECIAL NO. 1)
- ⑳ CONCRETE GUTTER TYPE A
- ㉑ CONCRETE MEDIAN SURFACE, 4"
- ㉒ CONCRETE CURB, TYPE B
- ㉓ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ㉔ PIPE UNDERDRAINS, TYPE 2, 6"
- ㉕ TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- ㉖ TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- ㉗ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- ㉘ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

- 1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
- 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
- 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
- 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.

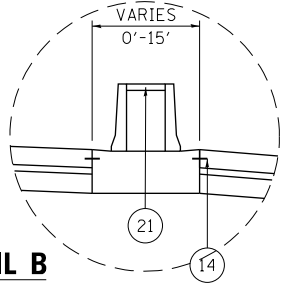
*SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



DETAIL A
BARRIER FROM
STA 6139+26.76 TO STA 6139+95.15

**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6139+26.76 TO STA 6141+34.86



DETAIL B
BARRIER FROM
STA 6139+26.76 TO STA 6140+04.56

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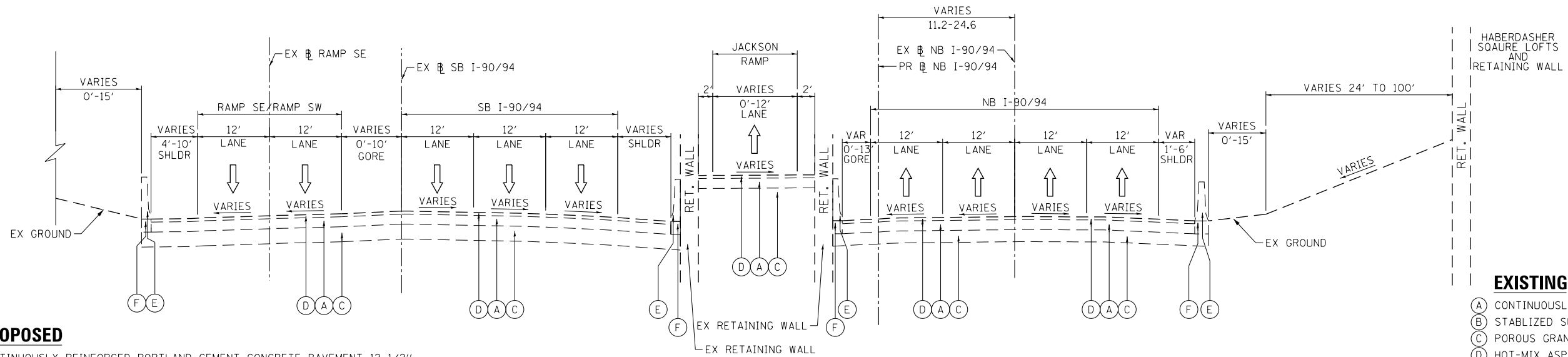


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PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

STATE OF ILLINOIS	TOTAL SHEETS	SHEET NO.
DEPARTMENT OF TRANSPORTATION	2015	34

TYPICAL SECTIONS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-90/94		90/94/290	2015-019R	COOK	2015	34
SCALE: NONE		CONTRACT NO. 62A76		ILLINOIS FED. AID PROJECT		

SCALE: NONE	SHEET 8	OF 17 SHEETS	STA.	TO STA.
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**EXISTING TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6147+70.77 TO STA 6152+34.42

EXISTING

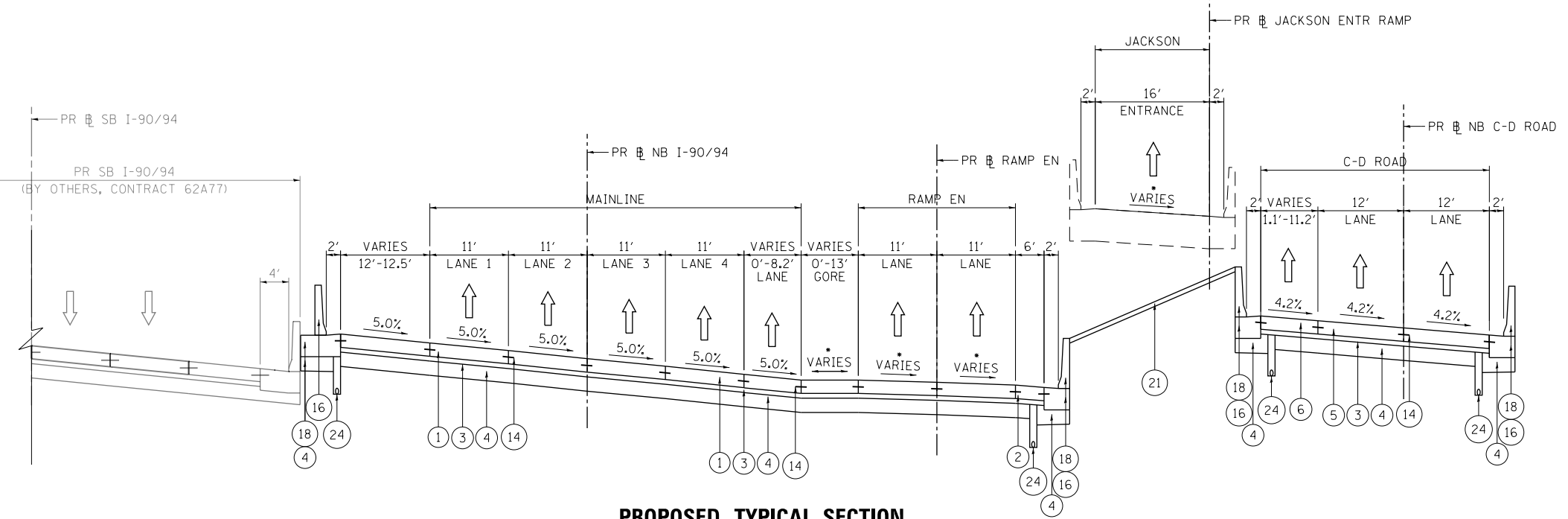
- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABILIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (23) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (24) PIPE UNDERDRAINS, TYPE 2, 6"
- (25) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET 34 FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

- 1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 - 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 - 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 - 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6144+04.70 TO STA 6147+02.10

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PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

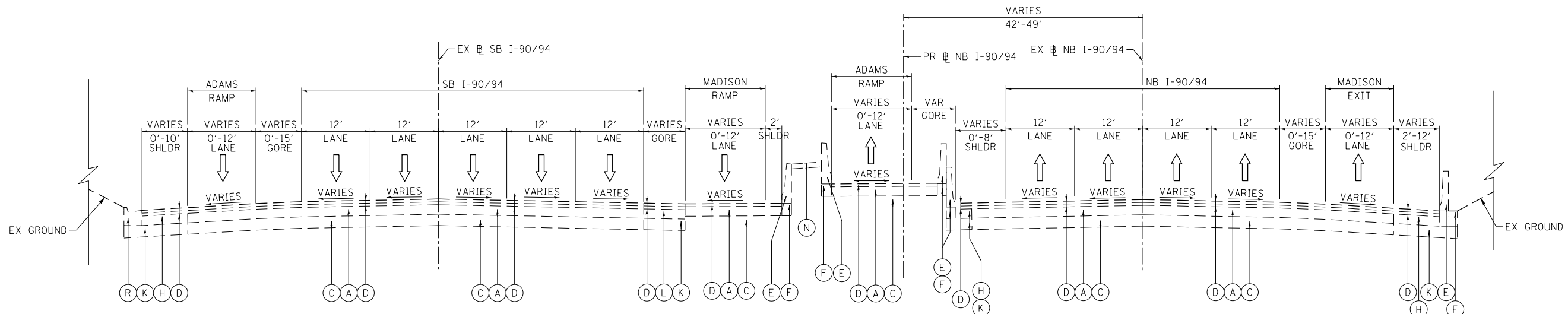
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
I-90/94**

SCALE: NONE SHEET 10 OF 17 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS 2015 36	SHEET NO. 36
CONTRACT NO. 62A76				ILLINOIS FED. AID PROJECT

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**EXISTING TYPICAL SECTION
(LOOKING NORTH)**

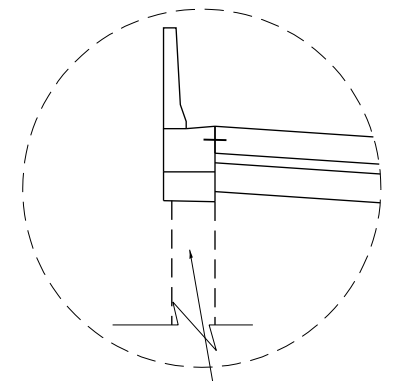
PR I-90/94
STA 6152+34.42 TO STA 6155+68.09

EXISTING

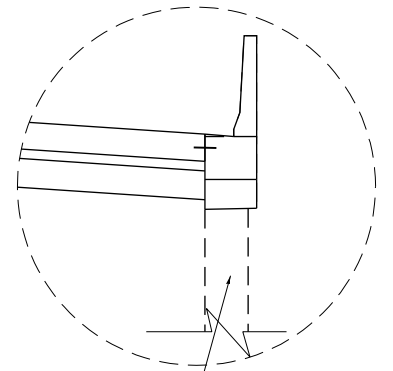
- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABILIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

PROPOSED

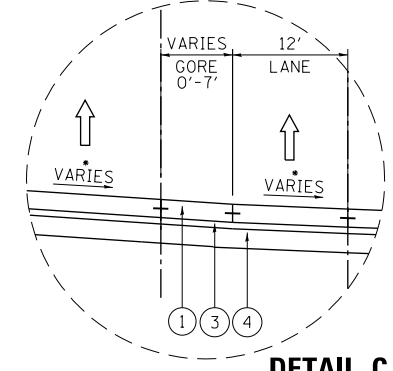
- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR STA 6147+98.72 TO STA 6148+95.47)
- (15) PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (16) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (17) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (18) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- (19) CONCRETE BARRIER BASE
- (20) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (21) CONCRETE GUTTER TYPE A
- (22) CONCRETE MEDIAN SURFACE, 4"
- (23) CONCRETE CURB, TYPE B
- (24) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (25) PIPE UNDERDRAINS, TYPE 2, 6"
- (26) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- (27) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (28) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (29) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"



DETAIL A
PR RETAINING WALL
(BY OTHERS, CONTRACT 60X94)



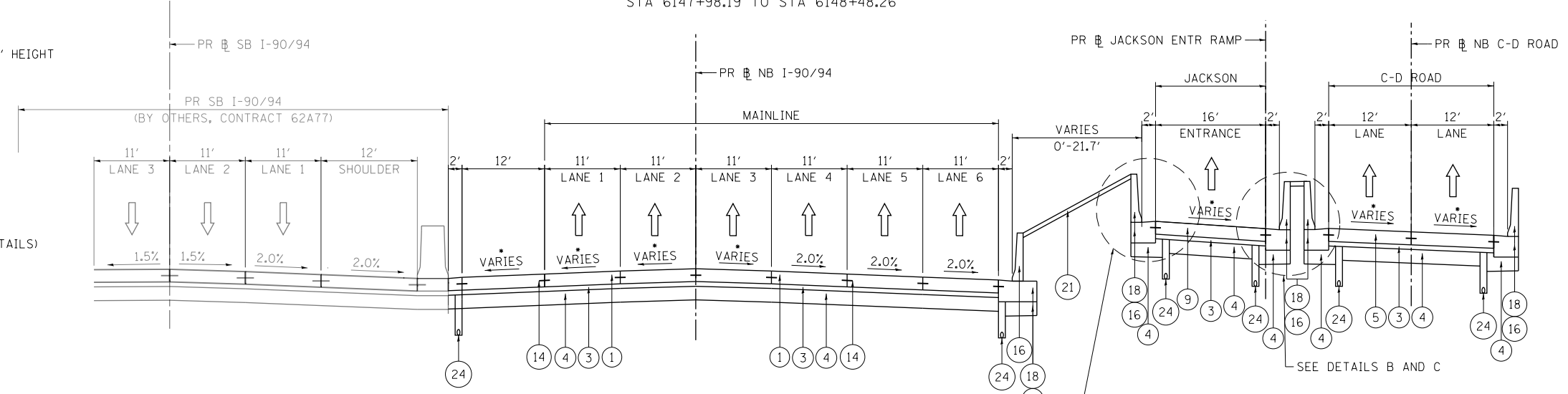
DETAIL B
PR RETAINING WALL
(BY OTHERS, CONTRACT 60X94)
RETAINING WALL FROM
STA 6147+98.19 TO STA 6148+48.26



DETAIL C
PAVED GORE FROM
STA 6149+04.146 TO STA 6150+78.65

NOTES:

- 1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 - 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 - 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 - 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6147+02.10 TO STA 6150+49.69



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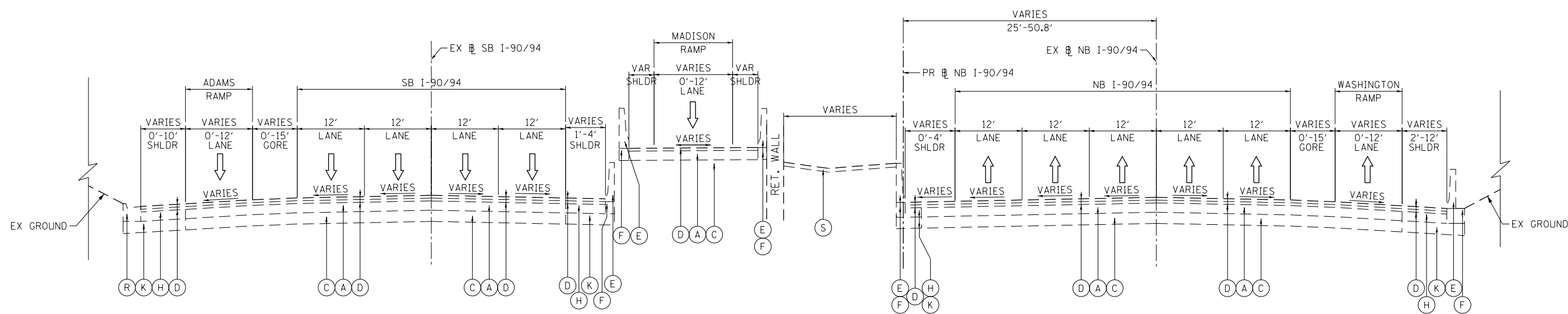
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
I-90/94**

SCALE: NONE SHEET 11 OF 17 SHEETS STA. TO STA.

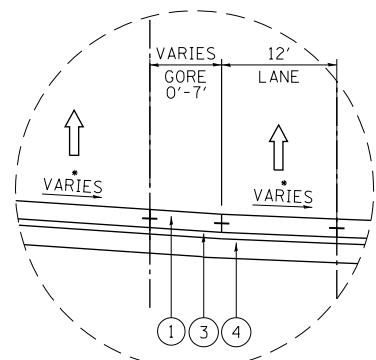
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	37
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

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EXISTING TYPICAL SECTION (LOOKING NORTH)
 PR NB I-90/94
 STA 6155+68.09 TO STA 6159+43.99

DETAIL C
 PAVED GORE FROM
 STA 6154+76.30 TO STA 6156+45.94

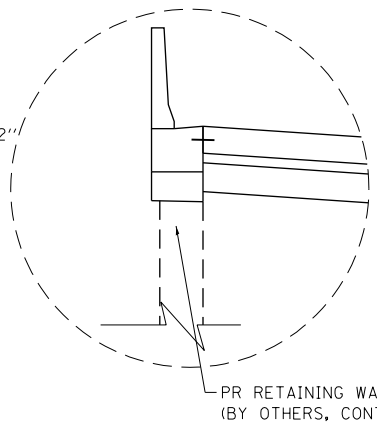


PROPOSED

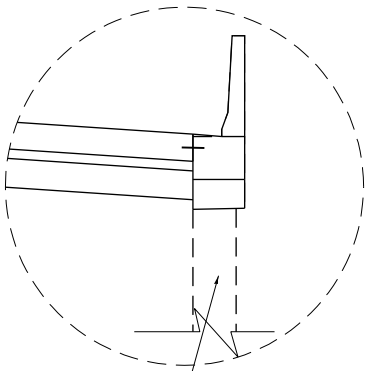
- 1 CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- 2 PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- 3 STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- 4 AGGREGATE SUBGRADE IMPROVEMENT 12"
- 5 PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- 6 PORTLAND CEMENT CONCRETE SHOULDERS 11"
- 7 PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- 8 PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- 9 PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- 10 PORTLAND CEMENT CONCRETE PAVEMENT 9"
- 11 PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- 12 PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- 13 PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- 14 TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- 15 SUBBASE GRANULAR MATERIAL, TYPE C 4"
- 16 CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- 17 CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- 18 CONCRETE BARRIER BASE
- 19 CONCRETE BARRIER BASE (SPECIAL NO. 1)
- 20 CONCRETE GUTTER TYPE A
- 21 CONCRETE MEDIAN SURFACE, 4"
- 22 CONCRETE CURB, TYPE B
- 23 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- 24 PIPE UNDERDRAINS, TYPE 2, 6"
- 25 TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- 26 TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET 34 FOR DETAILS)
- 27 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- 28 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

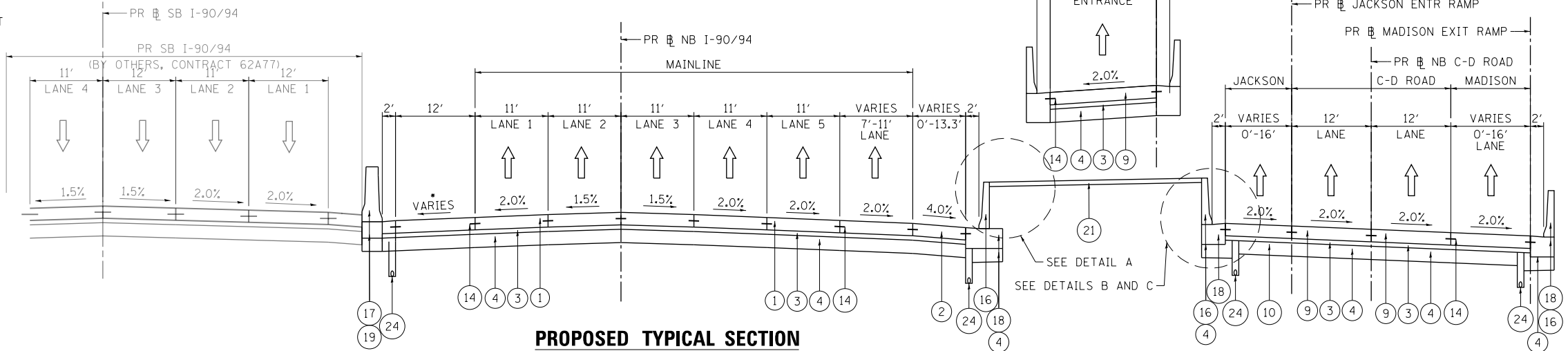
1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- *SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



DETAIL A
 RETAINING WALL FROM
 STA 6152+82.14 TO STA 6153+48.99



DETAIL B
 RETAINING WALL FROM
 STA 6152+81.27 TO STA 6154+02.57



PROPOSED TYPICAL SECTION (LOOKING NORTH)
 PR NB I-90/94
 STA 6150+49.69 TO STA 6156+67.37

EXISTING

- A CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- B STABILIZED SUBBASE, 4"
- C POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- D HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- E CONCRETE BARRIER
- F CONCRETE BARRIER BASE
- G SUBBASE GRANULAR MATERIAL, 12"
- H HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- I TEMPORARY PAVEMENT
- J SUBBASE GRANULAR MATERIAL, 4"
- K AGGREGATE SUBGRADE 12"
- L PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- M SUBBASE GRANULAR MATERIAL, 8"
- N CONCRETE MEDIAN SURFACE
- O PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- P AGGREGATE SURFACE COURSE
- Q HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- R COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- S GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)



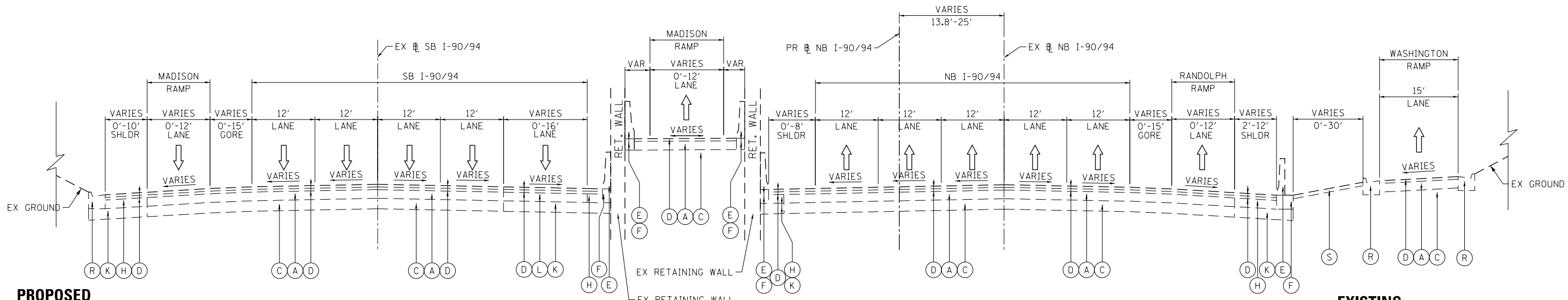
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PLOT DATE = 9/5/2019	DATE - 9/6/19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 I-90/94**

SCALE: NONE SHEET 12 OF 17 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS 2015	SHEET NO. 38
CONTRACT NO. 62A76				ILLINOIS FED. AID PROJECT



**EXISTING TYPICAL SECTION
(LOOKING NORTH)**

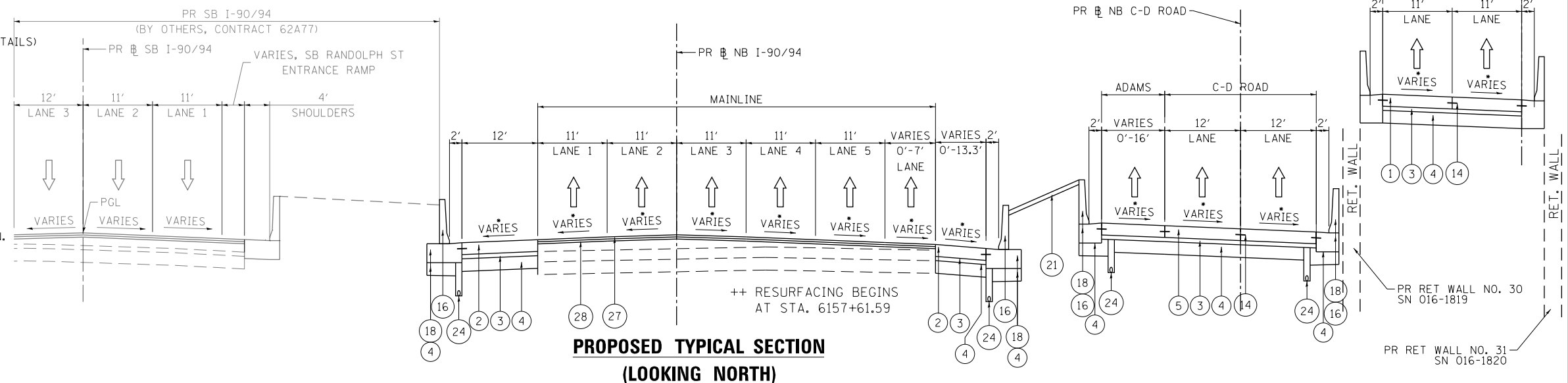
PR I-90/94
STA 6159+43.99 TO STA 6163+97.95

PROPOSED

- 1 CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- 2 PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- 3 STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- 4 AGGREGATE SUBGRADE IMPROVEMENT 12"
- 5 PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- 6 PORTLAND CEMENT CONCRETE SHOULDERS 11"
- 7 PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- 8 PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- 9 PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- 10 PORTLAND CEMENT CONCRETE PAVEMENT 9"
- 11 PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- 12 PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- 13 PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- 14 TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- 15 SUBBASE GRANULAR MATERIAL, TYPE C 4"
- 16 CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- 17 CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- 18 CONCRETE BARRIER BASE
- 19 CONCRETE BARRIER BASE (SPECIAL NO. 1)
- 20 CONCRETE GUTTER TYPE A
- 21 CONCRETE MEDIAN SURFACE, 4"
- 22 CONCRETE CURB, TYPE B
- 23 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- 24 PIPE UNDERDRAINS, TYPE 2, 6"
- 25 TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- 26 TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- 27 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- 28 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6159+30.00 TO STA 6160+06.86

EXISTING

- A CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- B STABILIZED SUBBASE, 4"
- C POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- D HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- E CONCRETE BARRIER
- F CONCRETE BARRIER BASE
- G SUBBASE GRANULAR MATERIAL, 12"
- H HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- I TEMPORARY PAVEMENT
- J SUBBASE GRANULAR MATERIAL, 4"
- K AGGREGATE SUBGRADE 12"
- L PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- M SUBBASE GRANULAR MATERIAL, 8"
- N CONCRETE MEDIAN SURFACE
- O PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- P AGGREGATE SURFACE COURSE
- Q HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- R COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- S GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

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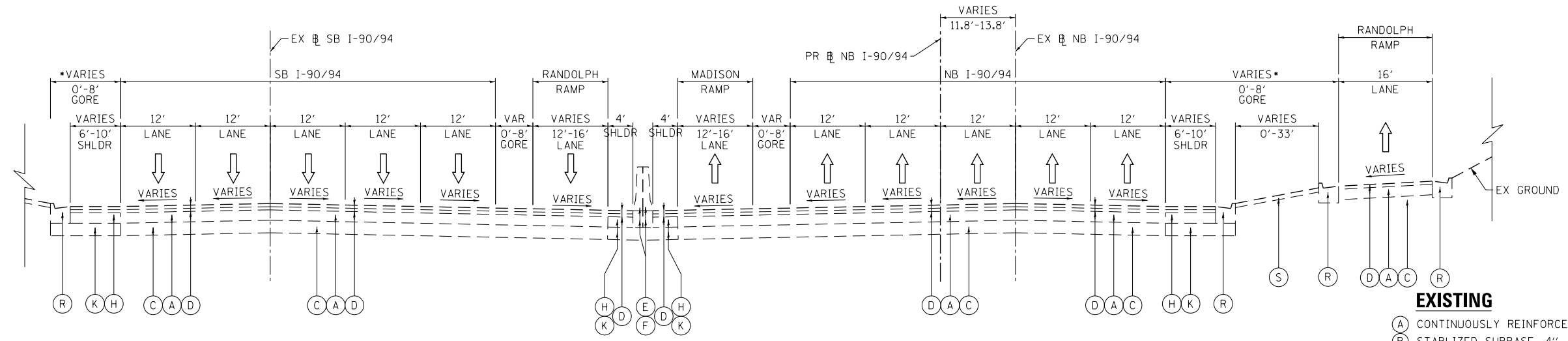
STATE OF ILLINOIS	TYPICAL SECTIONS
DEPARTMENT OF TRANSPORTATION	I-90/94

SCALE: NONE	SHEET 13	OF 17 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	39
CONTRACT NO. 62A76				

ILLINOIS FED. AID PROJECT				
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**EXISTING TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6163+97.95 TO STA 6166+31.75

EXISTING

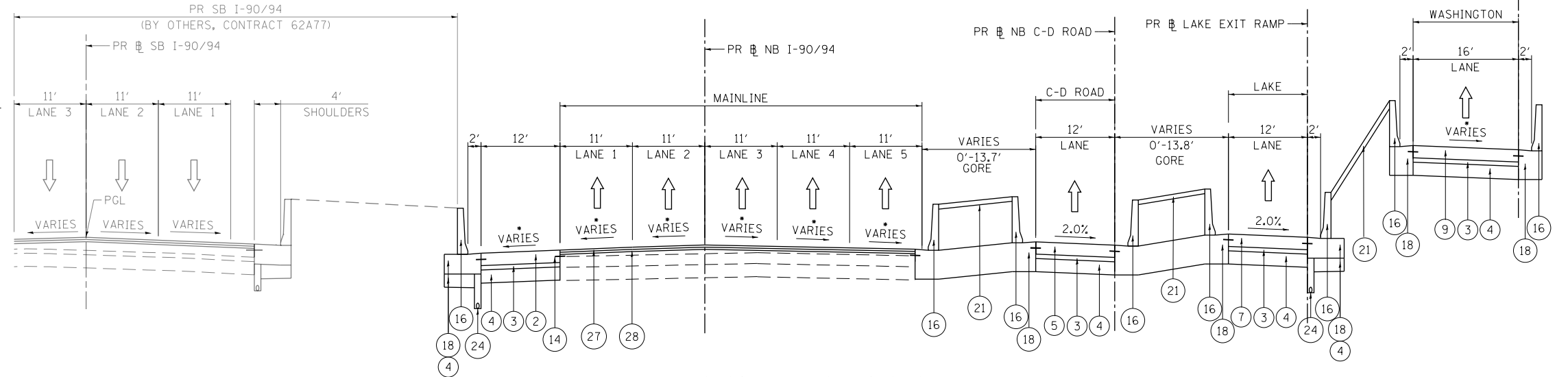
- (A) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- (B) STABILIZED SUBBASE, 4"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- (D) HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- (E) CONCRETE BARRIER
- (F) CONCRETE BARRIER BASE
- (G) SUBBASE GRANULAR MATERIAL, 12"
- (H) HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- (I) TEMPORARY PAVEMENT
- (J) SUBBASE GRANULAR MATERIAL, 4"
- (K) AGGREGATE SUBGRADE 12"
- (L) PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- (M) SUBBASE GRANULAR MATERIAL, 8"
- (N) CONCRETE MEDIAN SURFACE
- (O) PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- (P) AGGREGATE SURFACE COURSE
- (Q) HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- (R) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (S) GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

PROPOSED

- (1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (2) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (3) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (4) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (7) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- (8) PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- (9) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (10) PORTLAND CEMENT CONCRETE PAVEMENT 9"
- (11) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- (12) PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- (13) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (14) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (15) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (17) CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- (18) CONCRETE BARRIER BASE
- (19) CONCRETE BARRIER BASE (SPECIAL NO. 1)
- (20) CONCRETE GUTTER TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4"
- (22) CONCRETE CURB, TYPE B
- (23) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (24) PIPE UNDERDRAINS, TYPE 2, 6"
- (25) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- (26) TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- (27) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- (28) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



**PROPOSED TYPICAL SECTION
(LOOKING NORTH)**

PR NB I-90/94
STA 6160+06.86 TO STA 6164+05.78



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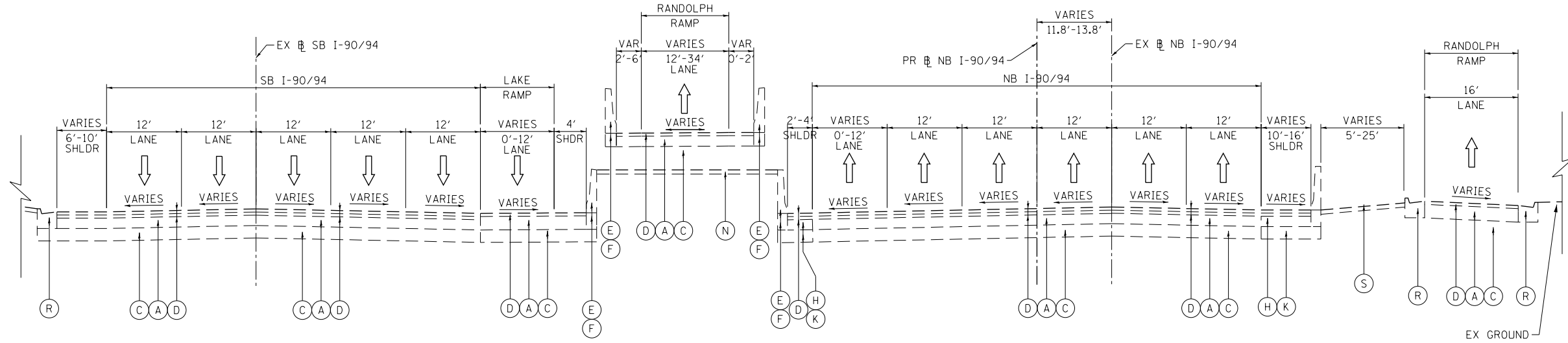
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
I-90/94**

SCALE: NONE SHEET 14 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	40
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

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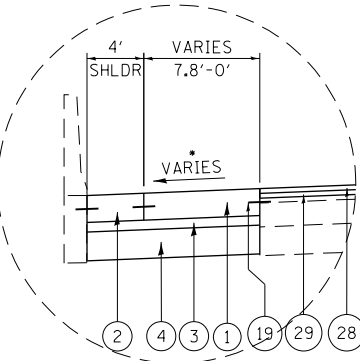


PROPOSED

- ① CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- ② PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS 11"
- ⑦ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- ⑧ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- ⑨ PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- ⑩ PORTLAND CEMENT CONCRETE PAVEMENT 9"
- ⑪ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- ⑫ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- ⑬ PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- ⑭ TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- ⑮ SUBBASE GRANULAR MATERIAL, TYPE C 4"
- ⑯ CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- ⑰ CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- ⑱ CONCRETE BARRIER BASE
- ⑲ CONCRETE BARRIER BASE (SPECIAL NO. 1)
- ⑳ CONCRETE GUTTER TYPE A
- ㉑ CONCRETE MEDIAN SURFACE, 4"
- ㉒ CONCRETE CURB, TYPE B
- ㉓ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ㉔ PIPE UNDERDRAINS, TYPE 2, 6"
- ㉕ TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- ㉖ TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- ㉗ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- ㉘ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

EXISTING TYPICAL SECTION (LOOKING NORTH)

PR NB I-90/94
 STA 6168+83.44 TO STA 6170+39.66

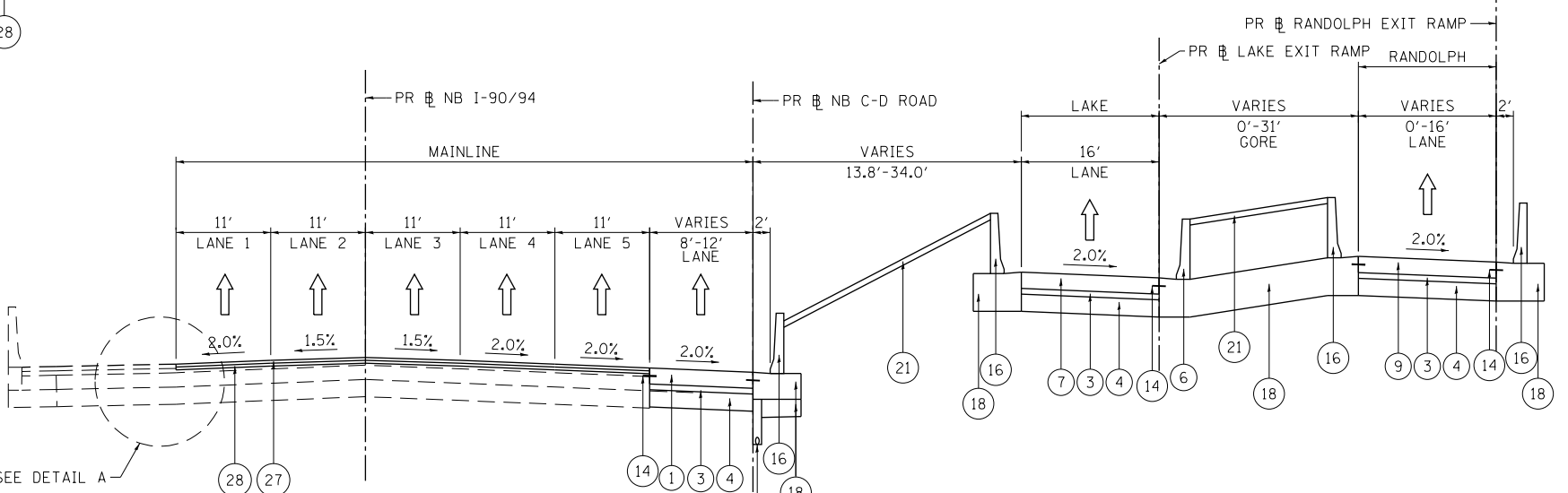


EXISTING

- Ⓐ CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- Ⓑ STABILIZED SUBBASE, 4"
- Ⓒ POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- Ⓓ HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- Ⓔ CONCRETE BARRIER
- Ⓕ CONCRETE BARRIER BASE
- Ⓖ SUBBASE GRANULAR MATERIAL, 12"
- Ⓗ HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- Ⓘ TEMPORARY PAVEMENT
- Ⓝ SUBBASE GRANULAR MATERIAL, 4"
- Ⓚ AGGREGATE SUBGRADE 12"
- Ⓛ PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- Ⓜ SUBBASE GRANULAR MATERIAL, 8"
- Ⓝ CONCRETE MEDIAN SURFACE
- Ⓞ PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- Ⓟ AGGREGATE SURFACE COURSE
- Ⓠ HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- Ⓡ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- Ⓢ GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)

NOTES:

- 1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 - 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 - 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 - 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- *SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES



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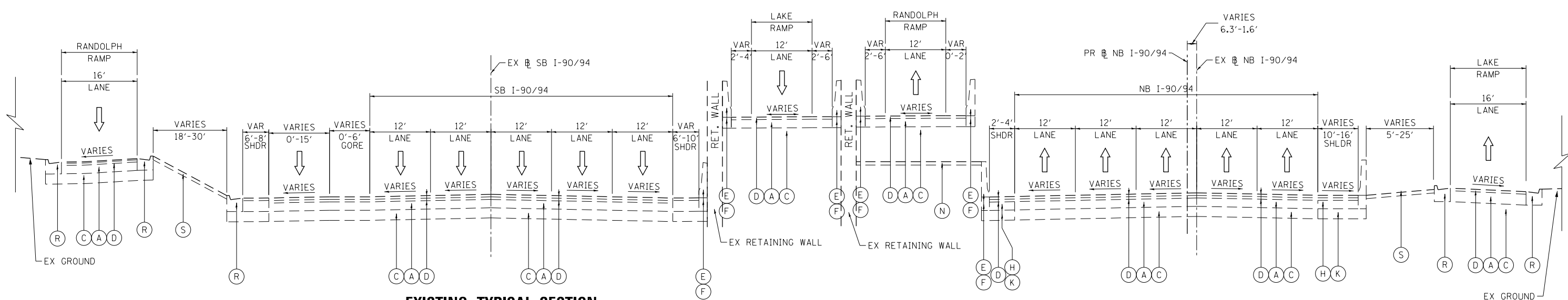
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS I-90/94

SCALE: NONE SHEET 15 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2015	41
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

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PROPOSED

- ① CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- ② PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS 11"
- ⑦ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4" (JOINTED)
- ⑧ PORTLAND CEMENT CONCRETE PAVEMENT 9 1/4"
- ⑨ PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- ⑩ PORTLAND CEMENT CONCRETE PAVEMENT 9"
- ⑪ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
- ⑫ PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4"
- ⑬ PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- ⑭ TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT, PCC BASE COURSE, AND PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- ⑮ SUBBASE GRANULAR MATERIAL, TYPE C 4"
- ⑯ CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- ⑰ CONCRETE BARRIER, DOUBLE FACE, VARIABLE CROSS SECTION 42" HEIGHT
- ⑱ CONCRETE BARRIER BASE
- ⑲ CONCRETE BARRIER BASE (SPECIAL NO. 1)
- ⑳ CONCRETE GUTTER TYPE A
- ㉑ CONCRETE MEDIAN SURFACE, 4"
- ㉒ CONCRETE CURB, TYPE B
- ㉓ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ㉔ PIPE UNDERDRAINS, TYPE 2, 6"
- ㉕ TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS) 34
- ㉖ TEMPORARY PAVEMENT (SEE TYPICAL SECTION SHEET FOR DETAILS)
- ㉗ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 N80 2"
- ㉘ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5 N70 2"

NOTES:

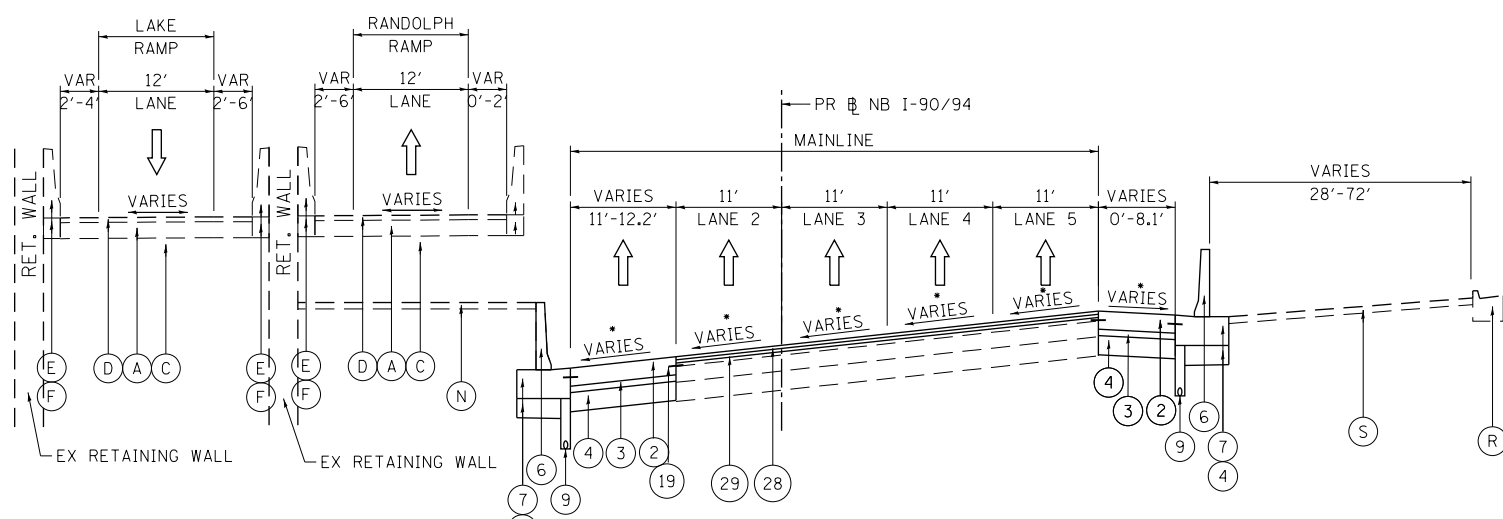
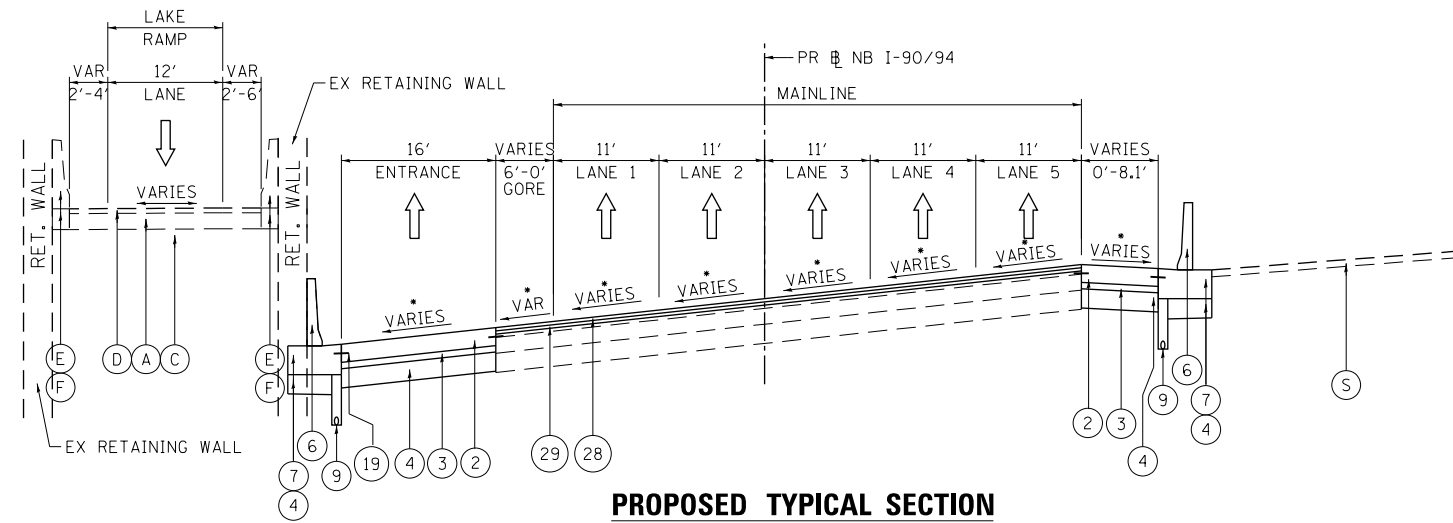
1. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8%.
 2. FOR PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED) DETAILS, SEE JOINTING AND SUPERELEVATION PLAN.
 3. SEE BARRIER WALL DETAILS FOR ROADWAY BARRIER INFORMATION.
 4. THE LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVEL BINDER.
- SEE SUPERELEVATION TRANSITION DETAILS FOR CROSS SLOPES

EXISTING TYPICAL SECTION (LOOKING NORTH)

PR # I-90/94
 STA 6170+39.66 TO STA 6175+07.63

EXISTING

- Ⓐ CONTINUOUSLY REINFORCED PCC PAVEMENT, 7" TO 13"
- Ⓑ STABILIZED SUBBASE, 4"
- Ⓒ POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 36"
- Ⓓ HOT-MIX ASPHALT PAVEMENT, 3" TO 7"
- Ⓔ CONCRETE BARRIER
- Ⓕ CONCRETE BARRIER BASE
- Ⓖ SUBBASE GRANULAR MATERIAL, 12"
- Ⓗ HOT-MIX ASPHALT SHOULDERS, 10" TO 13"
- Ⓘ TEMPORARY PAVEMENT
- Ⓚ SUBBASE GRANULAR MATERIAL, 4"
- Ⓛ PORTLAND CEMENT CONCRETE PAVEMENT, 7" TO 10"
- Ⓜ SUBBASE GRANULAR MATERIAL, 8"
- Ⓝ CONCRETE MEDIAN SURFACE
- Ⓞ PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- Ⓟ AGGREGATE SURFACE COURSE
- Ⓠ HOT-MIX ASPHALT MEDIAN SURFACE, 4"
- Ⓡ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- Ⓢ GROUND SURFACE (ASSUME EXISTING 9" TOPSOIL DEPTH)



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

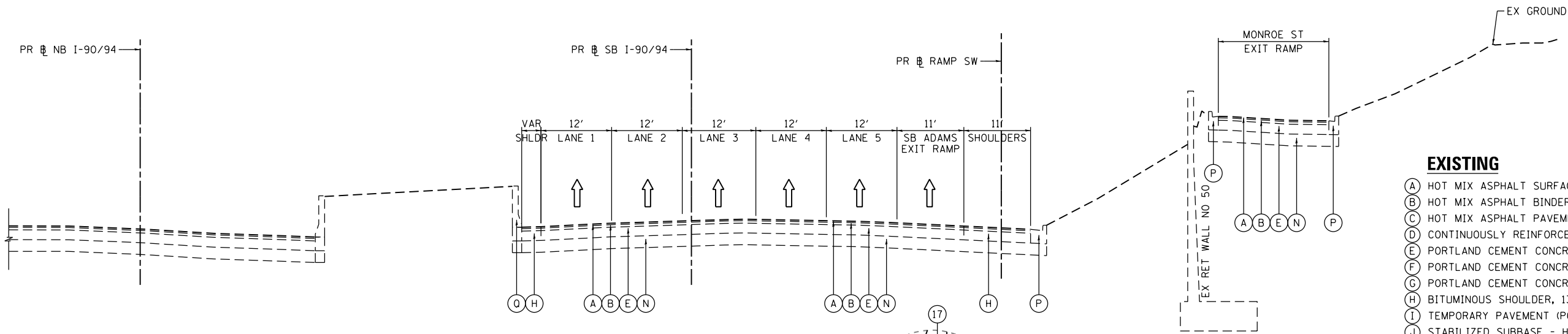
TYPICAL SECTIONS
 I-90/94

SCALE: NONE SHEET 16 OF 17 SHEETS STA. TO STA.

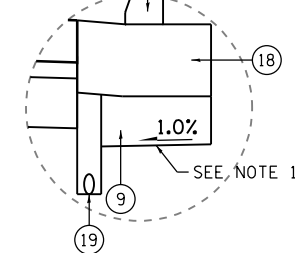
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90/94/290	2015-019R	COOK	2015	42
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

- I-90/94 SB and Connecting Ramps

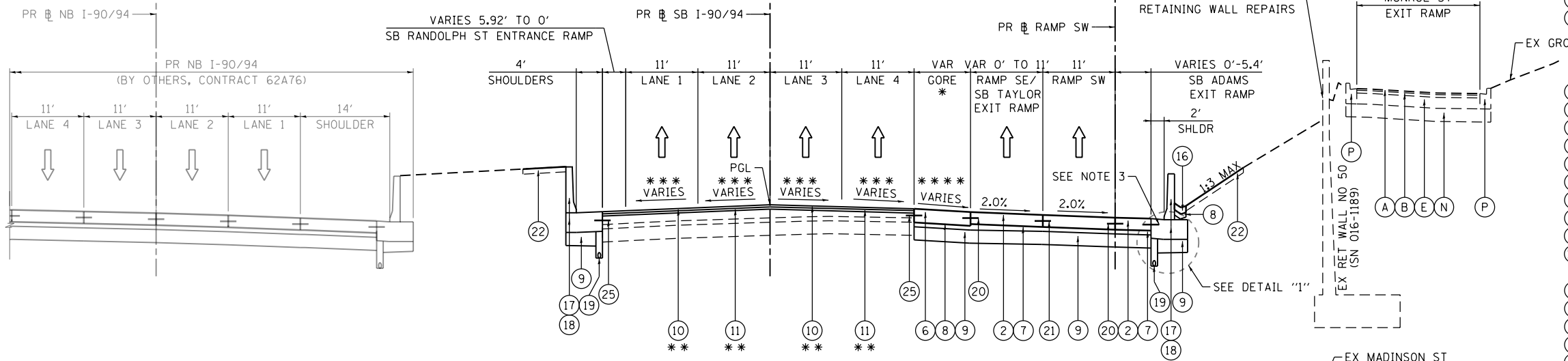
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EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6201+18.73 TO STA 6204+00.00



- EXISTING**
- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
 - (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
 - (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
 - (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
 - (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
 - (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
 - (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
 - (H) BITUMINOUS SHOULDER, 13"
 - (I) TEMPORARY PAVEMENT (PCC/HMA)
 - (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
 - (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
 - (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
 - (M) SUBBASE GRANULAR MATERIAL, 12"
 - (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
 - (P) COMBINATION CONCRETE CURB AND GUTTER
 - (Q) CONCRETE BARRIER
 - (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
 - (S) GUARDRAIL
 - (T) PIPE UNDERDRAINS
 - (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
 - (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
 - (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"



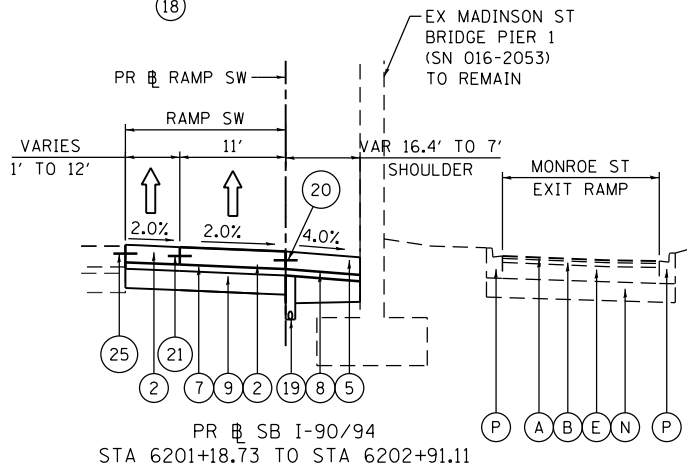
PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6201+18.73 TO STA 6204+00.00

- PROPOSED**
- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
 - (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
 - (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
 - (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
 - (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
 - (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
 - (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
 - (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
 - (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
 - (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
 - (12) POROUS GRANULAR EMBANKMENT
 - (13) CONCRETE MEDIAN SURFACE, 4"
 - (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
 - (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
 - (16) CONCRETE GUTTER, TYPE B
 - (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
 - (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
 - (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
 - (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
 - (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
 - (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
 - (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
 - (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
 - (25) DRILL AND GROUT #8 TIE BARS
 - (26) CONCRETE CURB, TYPE B
 - (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

- * GORE VARIES FROM 1' TO 8.6'
 STA 6202+91.11 TO STA 6204+00.00
 (PR SB I-90/94)
- ** STA 6202+91.11 TO STA 6204+00.00
 (PR SB I-90/94)
- *** SEE NOTE 4.
- **** SEE NOTE 5.

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGDF01128.



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 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 10/4/2019

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 CHECKED - MJE
 DATE - 10/4/2019

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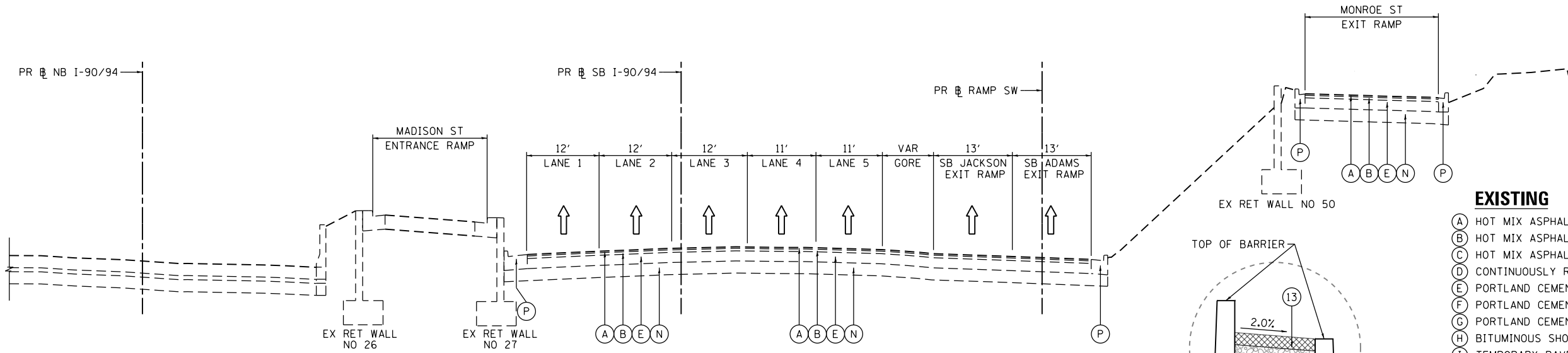
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 SB I-90/94

SCALE: NONE SHEET 1 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	33
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

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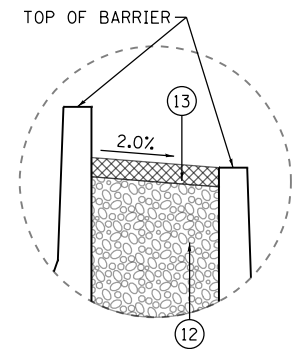


EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

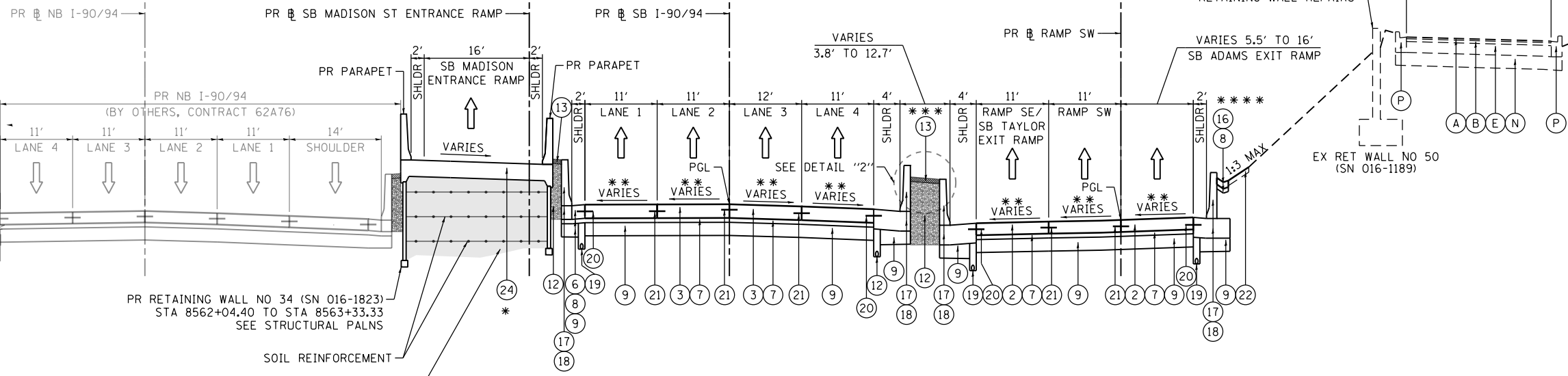
PR SB I-90/94
 STA 6204+00.00 TO STA 6206+64.78

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"



DETAIL 2"
 SCALE: NONE



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR SB I-90/94
 STA 6204+00.00 TO STA 6206+64.78

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

- * APPROACH SLAB STA 8562+04.40 TO STA 8563+33.33 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB STA 8563+33.33 TO STA 8563+48.33 (PR SB MADISON ST ENTRANCE RAMP)
- ** SEE NOTE 4.
- *** (13) BEGINS AT STA 6204+91.52
- **** (16) (8) BEGIN AT STA 6202+12.22 AND END AT STA 6206+43.41

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGD*01128.



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 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 10/4/2019

DESIGNED - OPS
 DRAWN - ZND
 CHECKED - MJE
 DATE - 10/4/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

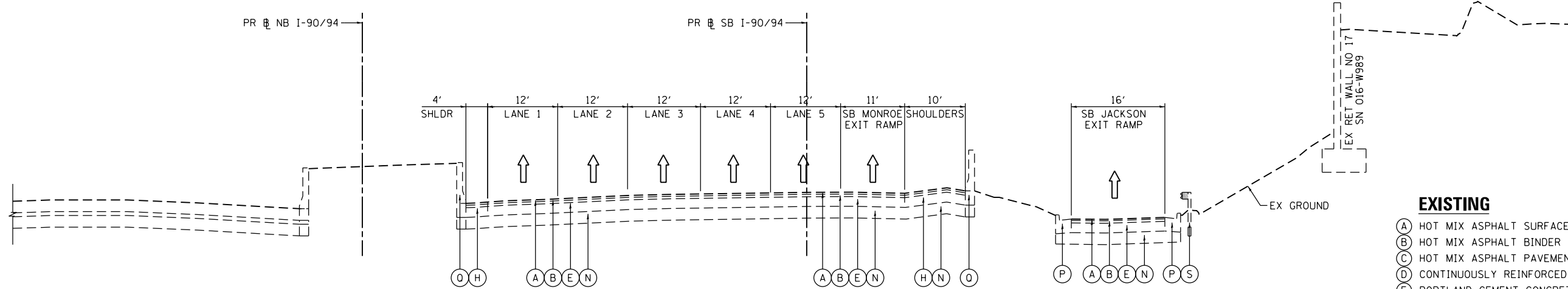
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 SB I-90/94

SCALE: NONE SHEET 2 OF 15 SHEETS STA. TO STA.

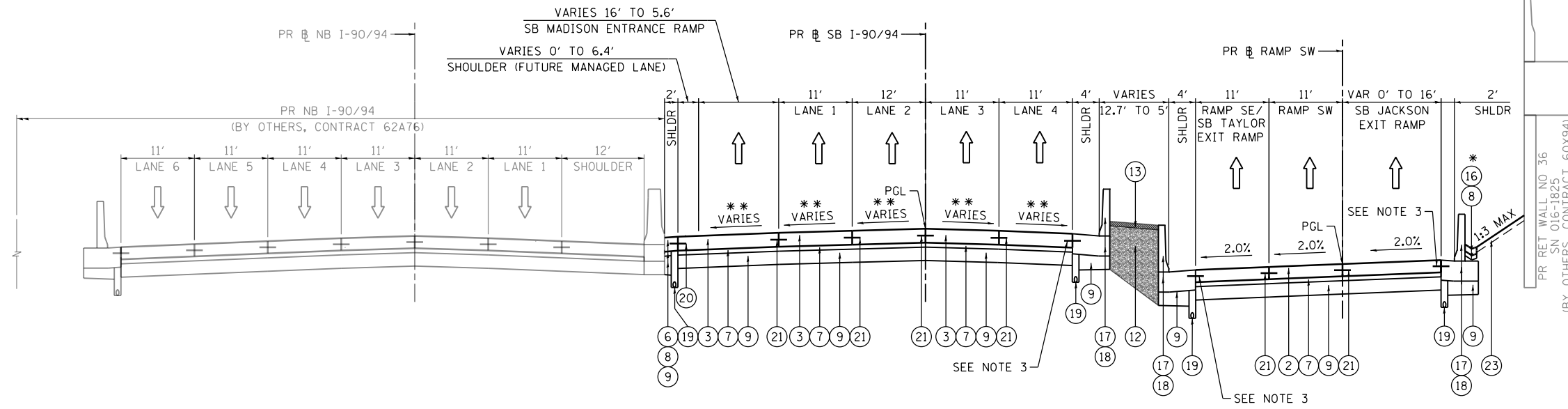
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	34
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

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EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR SB I-90/94
 STA 6206+64.78 TO STA 6212+15.64



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)

PR SB I-90/94
 STA 6206+64.78 TO STA 6212+15.64

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) *6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) *6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGDF01128.

* (16)(8) BEGIN AT STA 6207+31.80 AND END AT STA 6210+74.46
 ** SEE NOTE 4.



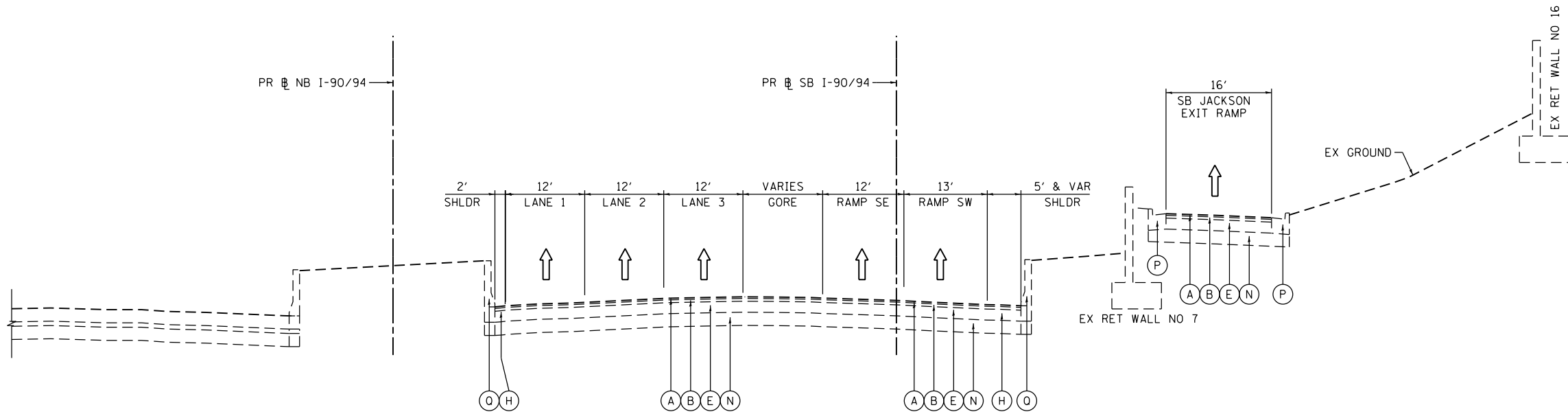
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

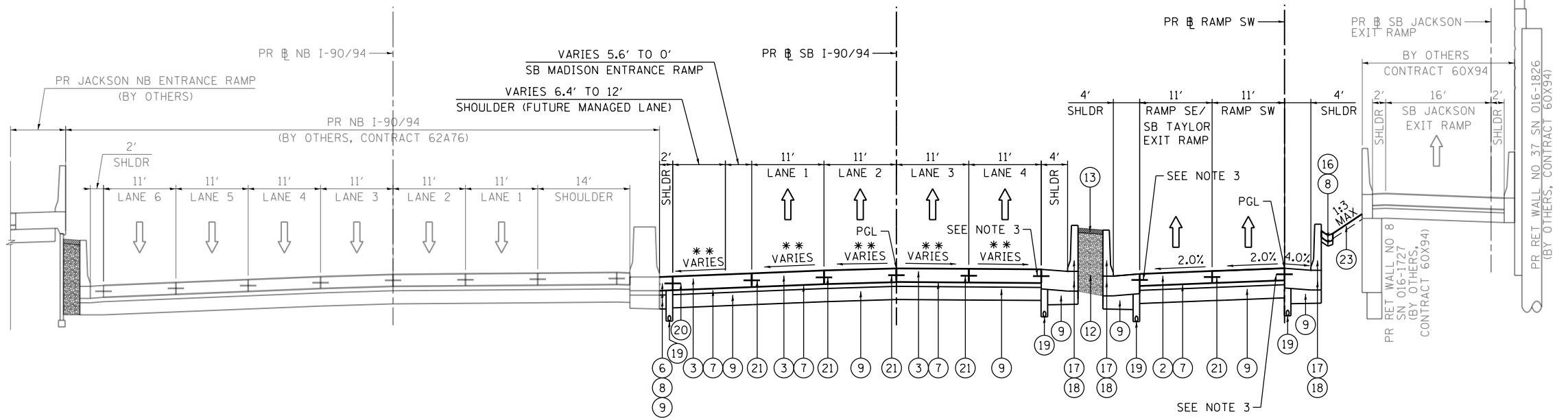
TYPICAL SECTIONS SB I-90/94		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		90/94/290	2015-018R	COOK	714	35
SCALE: NONE	SHEET 3 OF 15 SHEETS	STA.	TO STA.	CONTRACT NO. 62A77		

ILLINOIS FED. AID PROJECT	
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EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 EX SB I-90/94
 STA 6212+15.64 TO STA 6216+52.70



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6212+15.64 TO STA 6216+52.70

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

- 1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
- 2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
- 3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
- 4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
- 5. FOR GORE GRADING DETAILS, SEE SHEETS *GGDF01128.

** SEE NOTE 4.



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 DATE - 10/4/2019

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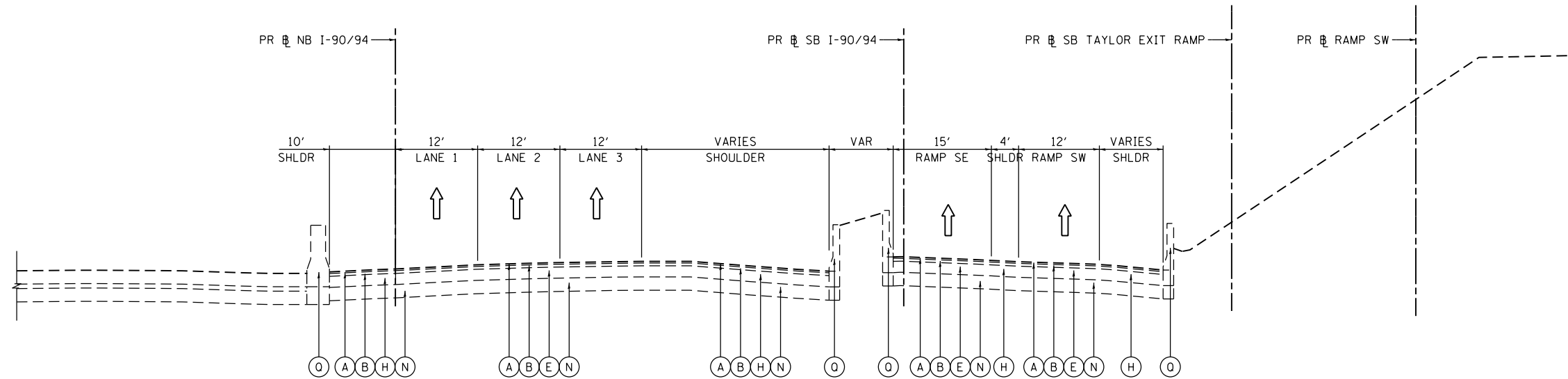
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 SB I-90/94

SCALE: NONE SHEET 4 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	36
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

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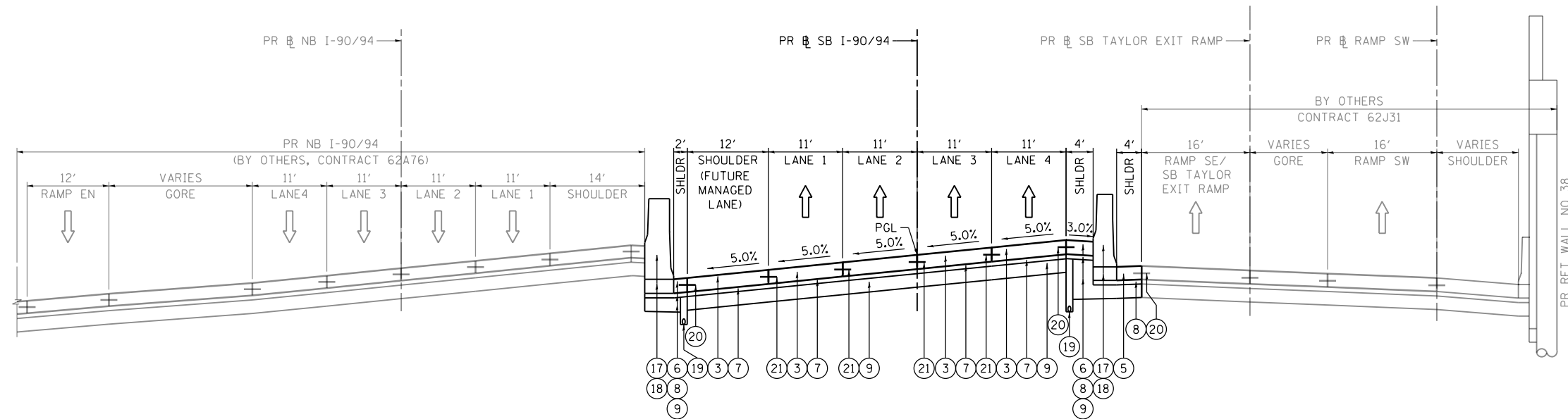


EXISTING TYPICAL SECTION

SB I-90/94

(LOOKING SOUTH)

PR SB I-90/94
STA 6216+52.70 TO STA 6218+37.53



PROPOSED TYPICAL SECTION

SB I-90/94

(LOOKING SOUTH)

PR SB I-90/94
STA 6216+52.70 TO STA 6218+37.53

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGDF01.128.



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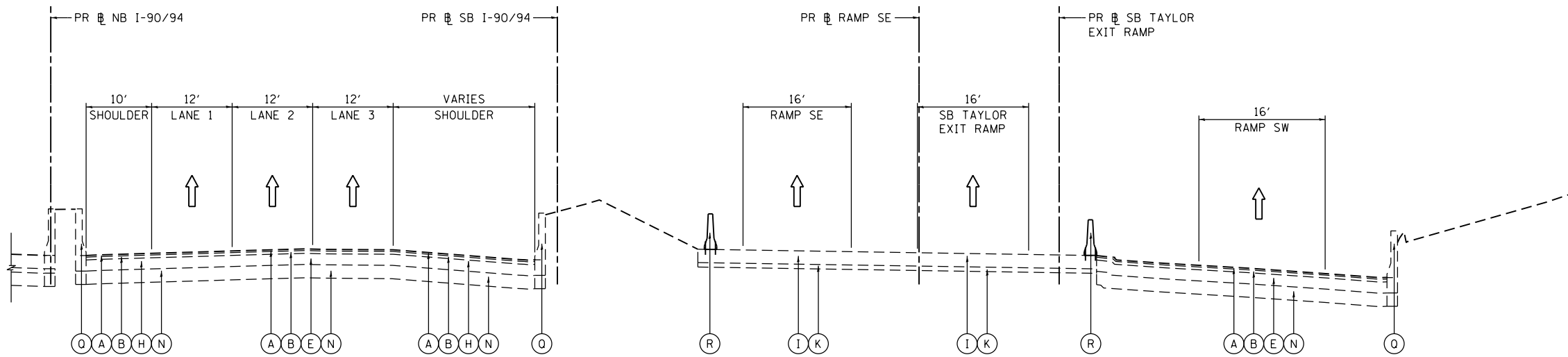
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

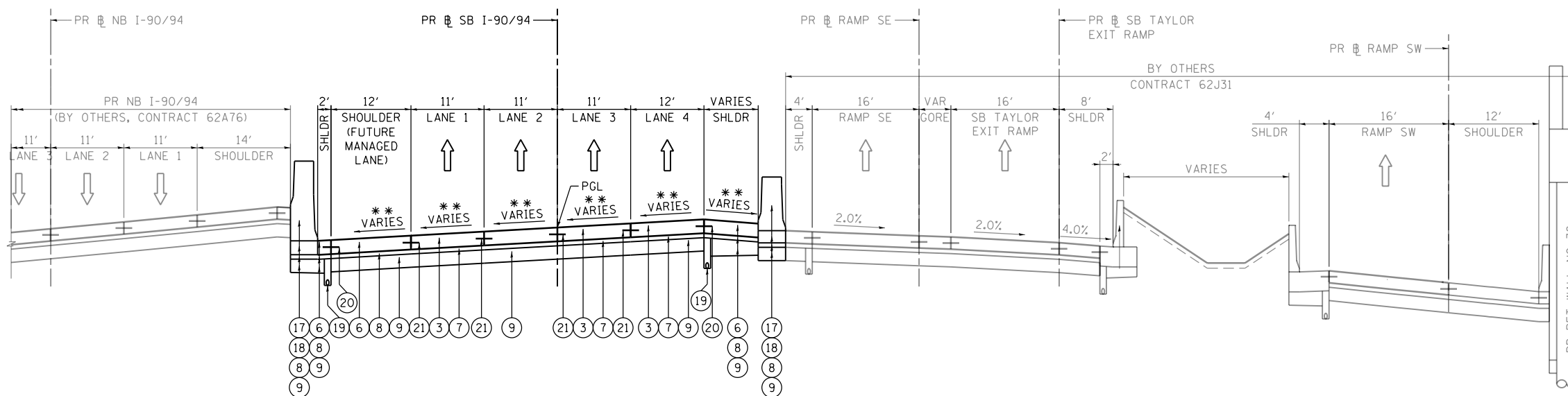
SCALE: NONE SHEET 5 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	37
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6218+37.53 TO STA 6220+47.18

- EXISTING**
- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
 - (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
 - (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
 - (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
 - (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
 - (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
 - (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
 - (H) BITUMINOUS SHOULDER, 13"
 - (I) TEMPORARY PAVEMENT (PCC/HMA)
 - (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
 - (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
 - (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
 - (M) SUBBASE GRANULAR MATERIAL, 12"
 - (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
 - (P) COMBINATION CONCRETE CURB AND GUTTER
 - (Q) CONCRETE BARRIER
 - (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
 - (S) GUARDRAIL
 - (T) PIPE UNDERDRAINS
 - (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
 - (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
 - (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6218+37.53 TO STA 6220+47.18

- PROPOSED**
- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
 - (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
 - (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
 - (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
 - (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
 - (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
 - (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
 - (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
 - (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
 - (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
 - (12) POROUS GRANULAR EMBANKMENT
 - (13) CONCRETE MEDIAN SURFACE, 4"
 - (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
 - (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
 - (16) CONCRETE GUTTER, TYPE B
 - (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
 - (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
 - (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
 - (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
 - (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
 - (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
 - (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
 - (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
 - (25) DRILL AND GROUT #8 TIE BARS
 - (26) CONCRETE CURB, TYPE B
 - (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

** SEE SUPERELEVATION DETAILS SHEET 105

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGDF01.128.

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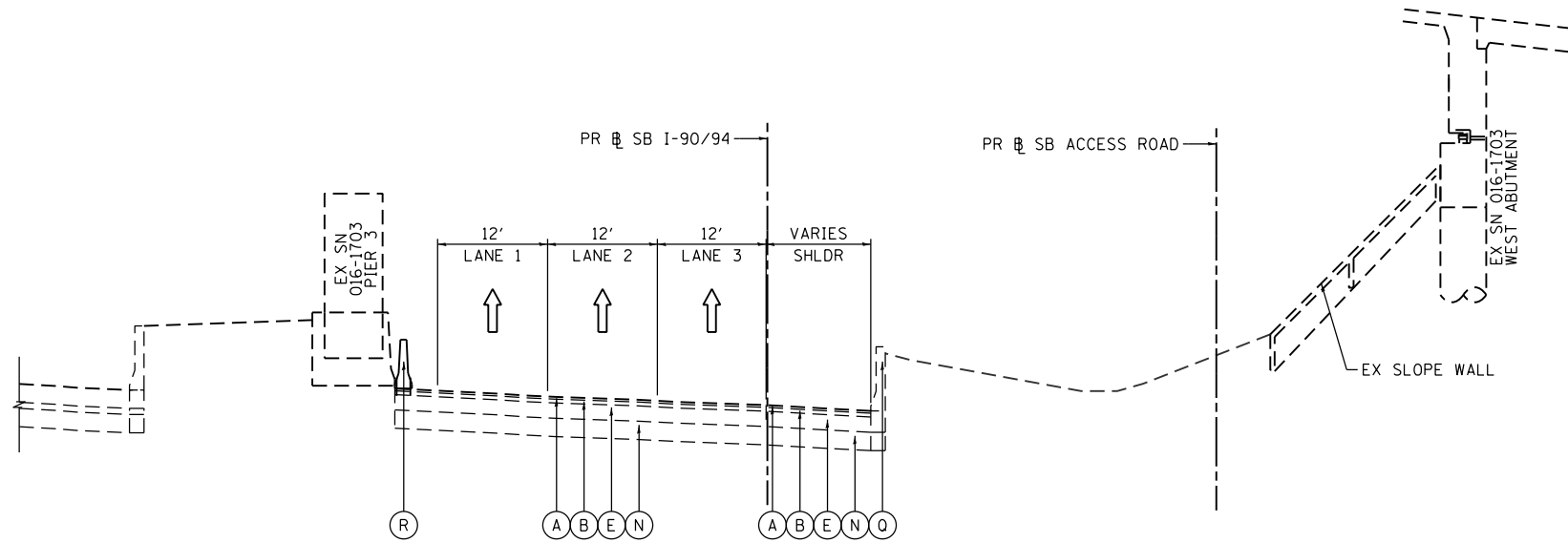
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE SHEET 6 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	38
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

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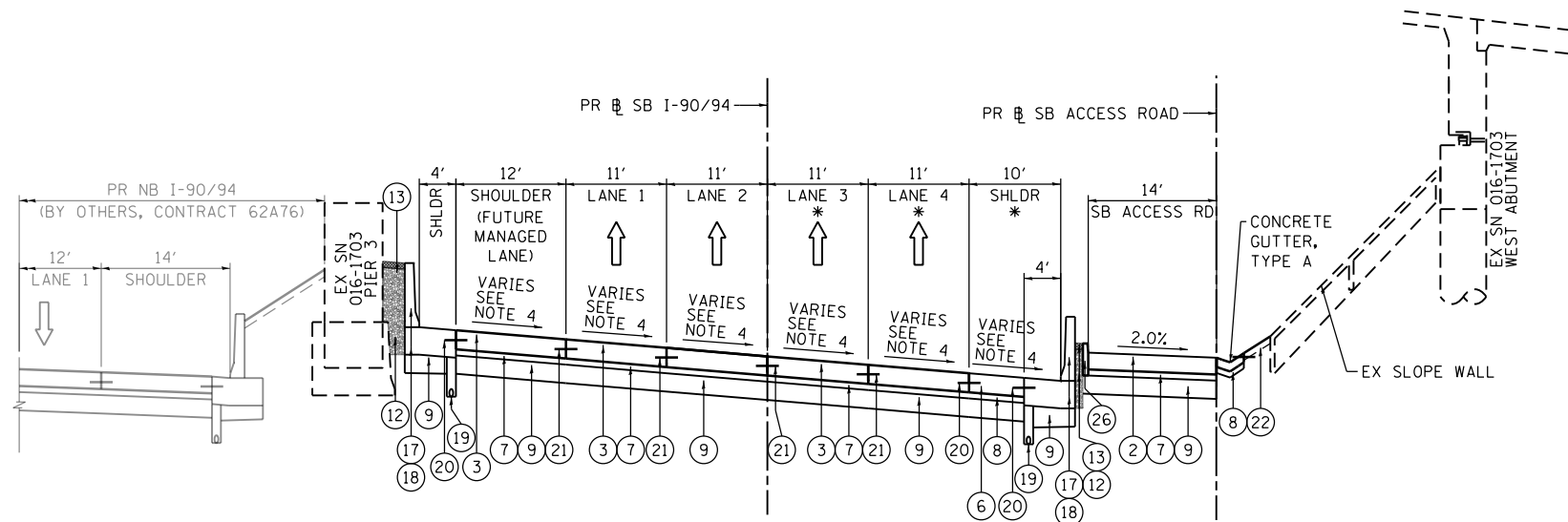


EXISTING TYPICAL SECTION

SB I-90/94

(LOOKING SOUTH)

PR SB I-90/94
STA 6220+47.18 TO STA 6229+11.25



PROPOSED TYPICAL SECTION

SB I-90/94

(LOOKING SOUTH)

PR SB I-90/94
STA 6220+47.18 TO STA 6229+11.25

* PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
STA 6224+31.78 TO STA 6224+49.02
STRUCTURAL SLAB (SN 016-D006)
STA 6224+49.02 TO STA 6225+05.31
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
STA 6225+05.31 TO STA 6225+20.31

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGD*01.128.



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PLOT SCALE = 20.0000' / in.
PLOT DATE = 10/4/2019

DESIGNED - OPS
DRAWN - ZND
CHECKED - MJE
DATE - 10/4/2019

REVISED -
REVISED -
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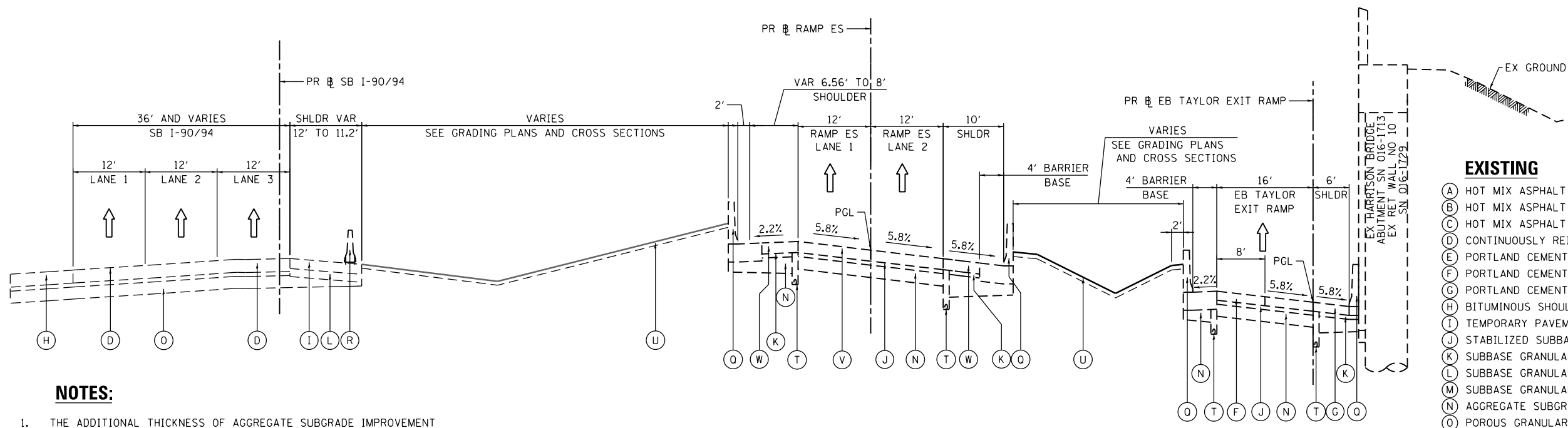
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

SCALE: NONE SHEET 7 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	39
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\va\ecom\m\line\local\ecom\0502_m\Documents\01_Americas\Transportation\60269938_Circle Phase II\000_CAD\006_Roadway\Sheets\62A77_Contract\0162A77-SHT-Typical-08.dgn



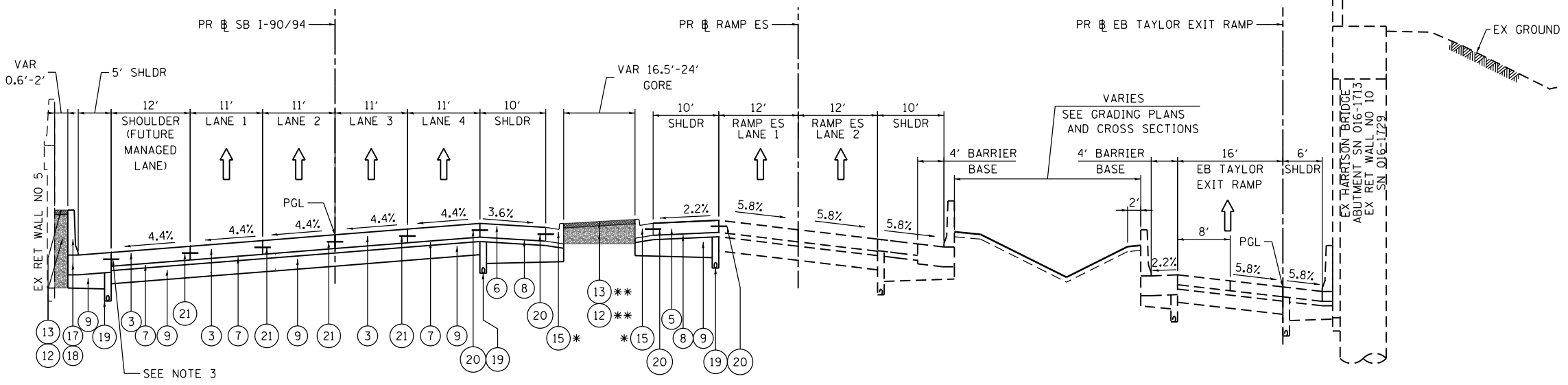
NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGD*01.128.

EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6229+11.25 TO STA 6231+12.62

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6229+11.25 TO STA 6231+12.62

* COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 FROM STA 6230+39.00 TO STA 6230+98.44
 ** CONCRETE MEDIAN SURFACE, 4" FROM STA 6230+39.00 TO STA 6230+97.84

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"



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 PLOT DATE = 10/4/2019

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 CHECKED - MJE
 DATE - 10/4/2019

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 REVISED -
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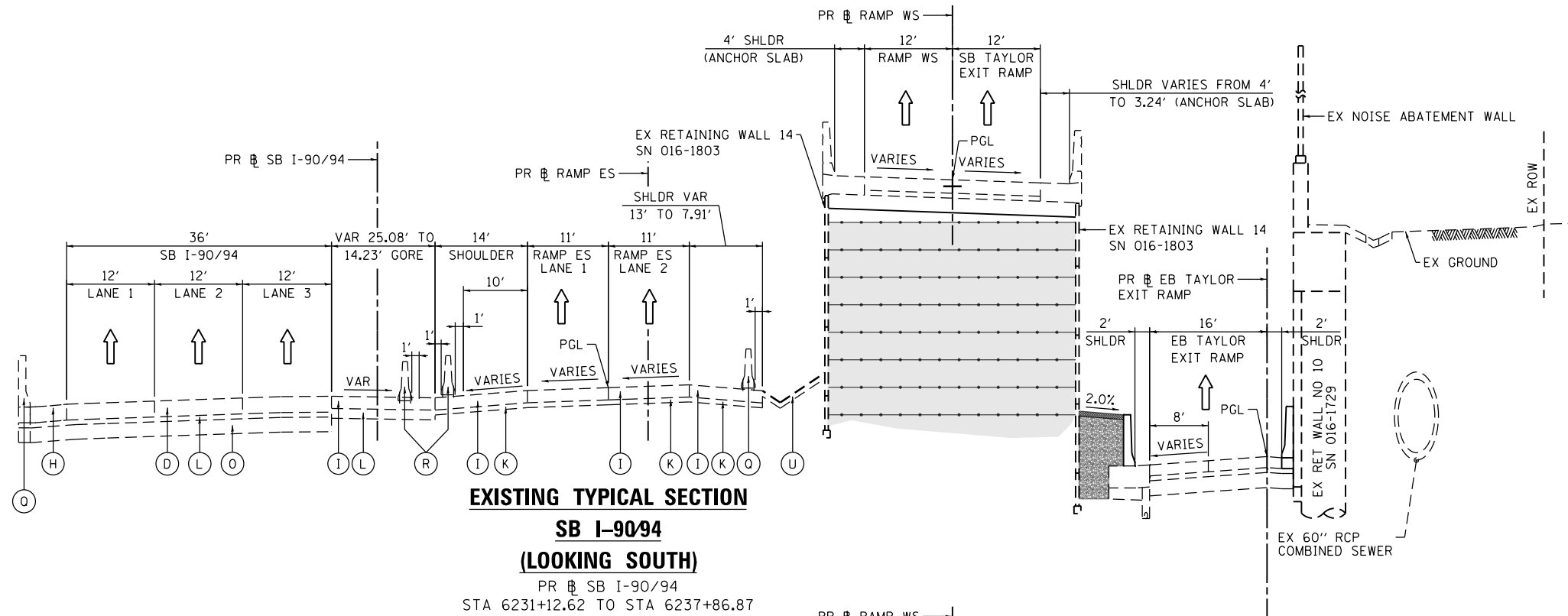
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

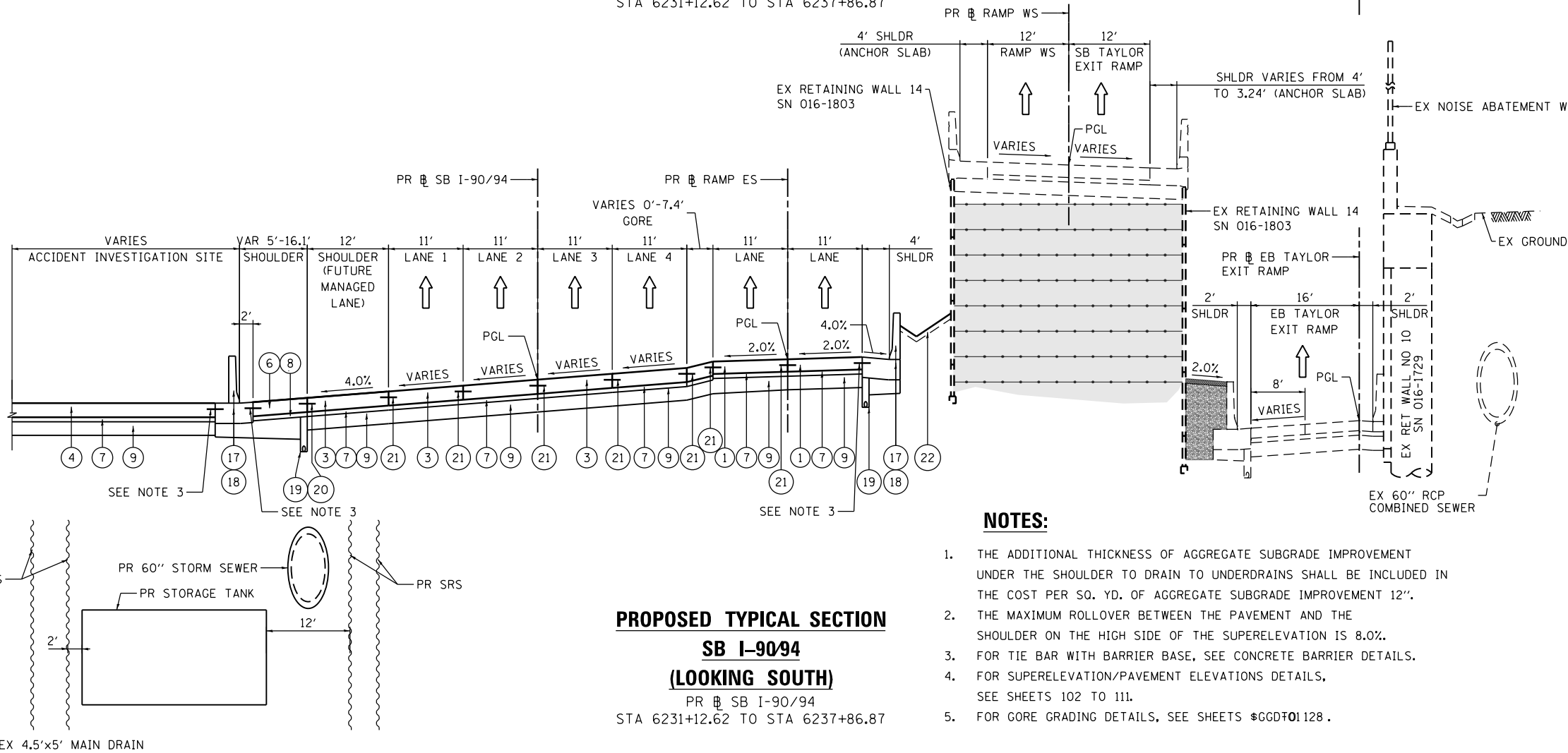
SCALE: NONE SHEET 8 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	40
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

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EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6231+12.62 TO STA 6237+86.87



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6231+12.62 TO STA 6237+86.87

- EXISTING**
- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
 - (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
 - (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
 - (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
 - (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
 - (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
 - (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
 - (H) BITUMINOUS SHOULDER, 13"
 - (I) TEMPORARY PAVEMENT (PCC/HMA)
 - (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
 - (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
 - (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
 - (M) SUBBASE GRANULAR MATERIAL, 12"
 - (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
 - (P) COMBINATION CONCRETE CURB AND GUTTER
 - (Q) CONCRETE BARRIER
 - (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
 - (S) GUARDRAIL
 - (T) PIPE UNDERDRAINS
 - (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
 - (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
 - (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

- PROPOSED**
- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
 - (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
 - (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
 - (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
 - (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
 - (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
 - (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
 - (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
 - (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
 - (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
 - (12) POROUS GRANULAR EMBANKMENT
 - (13) CONCRETE MEDIAN SURFACE, 4"
 - (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
 - (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
 - (16) CONCRETE GUTTER, TYPE B
 - (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
 - (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
 - (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
 - (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
 - (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
 - (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
 - (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
 - (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
 - (25) DRILL AND GROUT #8 TIE BARS
 - (26) CONCRETE CURB, TYPE B
 - (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

- NOTES:**
1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
 2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
 3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
 4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
 5. FOR GORE GRADING DETAILS, SEE SHEETS #GGD01128.



303 EAST WACKER DRIVE, SUITE 1400
 CHICAGO, IL 60601-5276
 PHONE: (312) 373-1700 FAX: (312) 373-6800

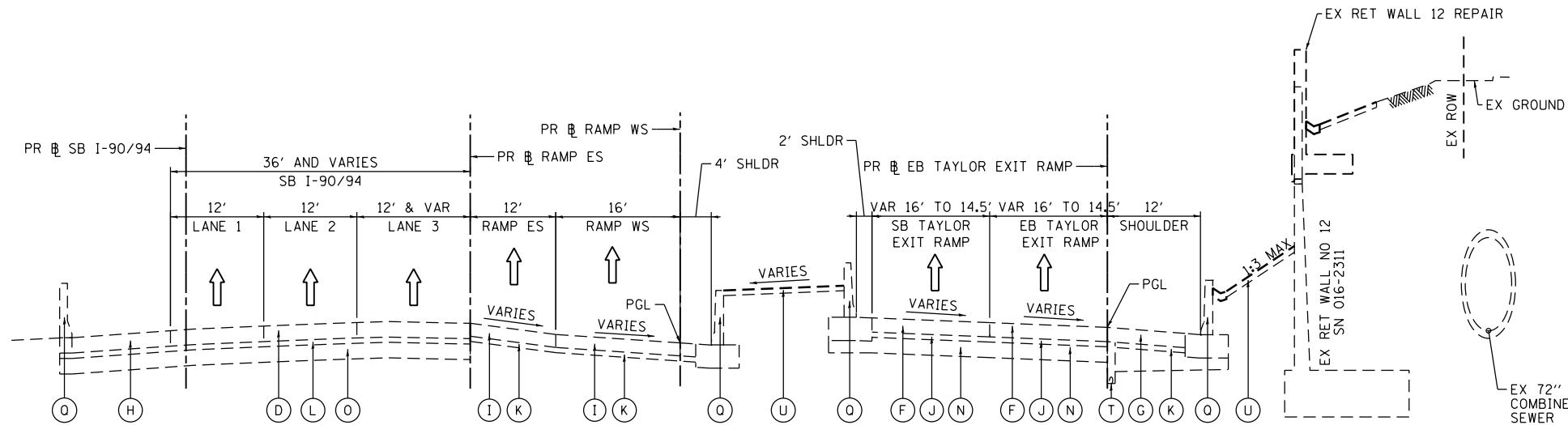
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
SB I-90/94	
SCALE: NONE	SHEET 9 OF 15 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	41
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

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EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6237+86.87 TO STA 6240+68.51

EXISTING

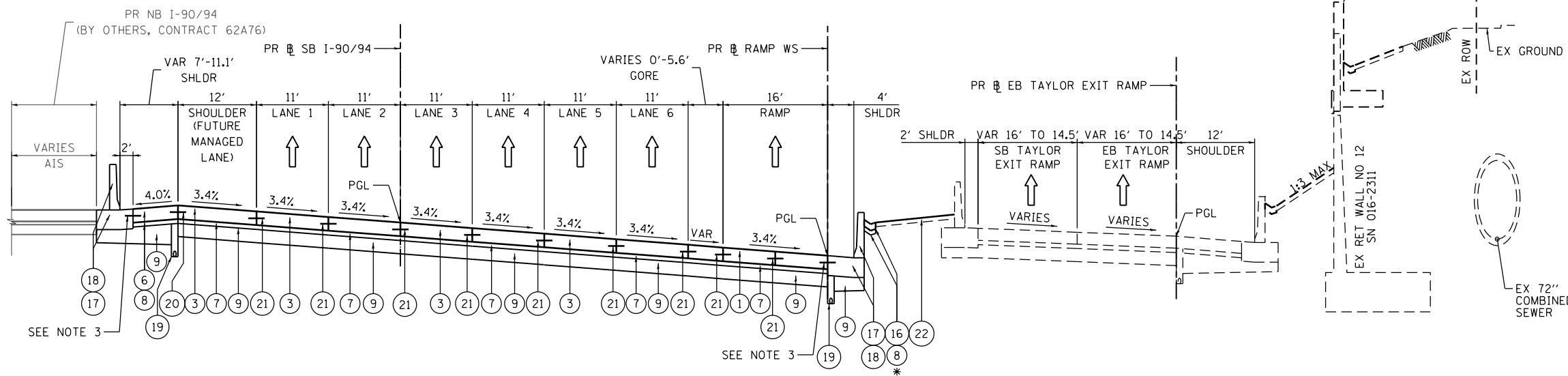
- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS \$GGDT01128.



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6237+86.87 TO STA 6240+68.51

*BEGIN CONCRETE GUTTER, TYPE B STA 6238+22.33



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 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 10/4/2019

DESIGNED - OPS
 DRAWN - ZND
 CHECKED - MJE
 DATE - 10/4/2019

REVISED -
 REVISED -
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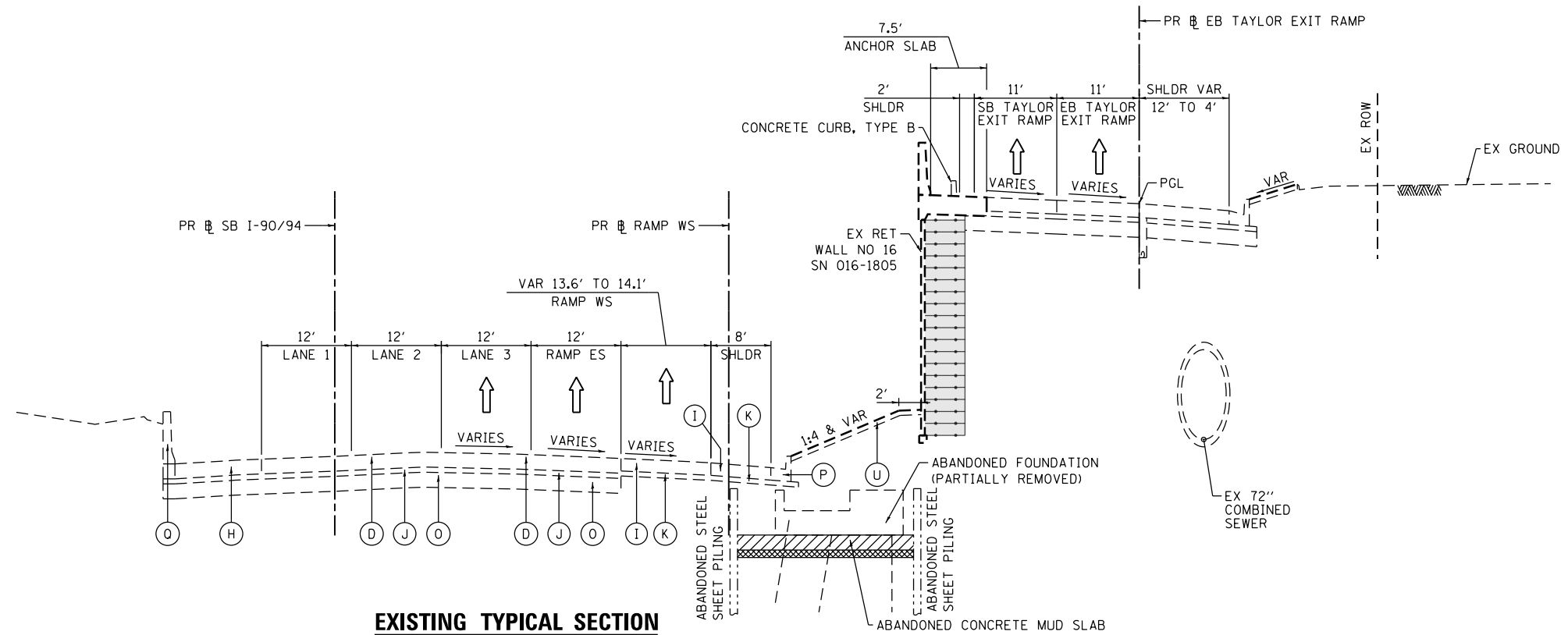
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

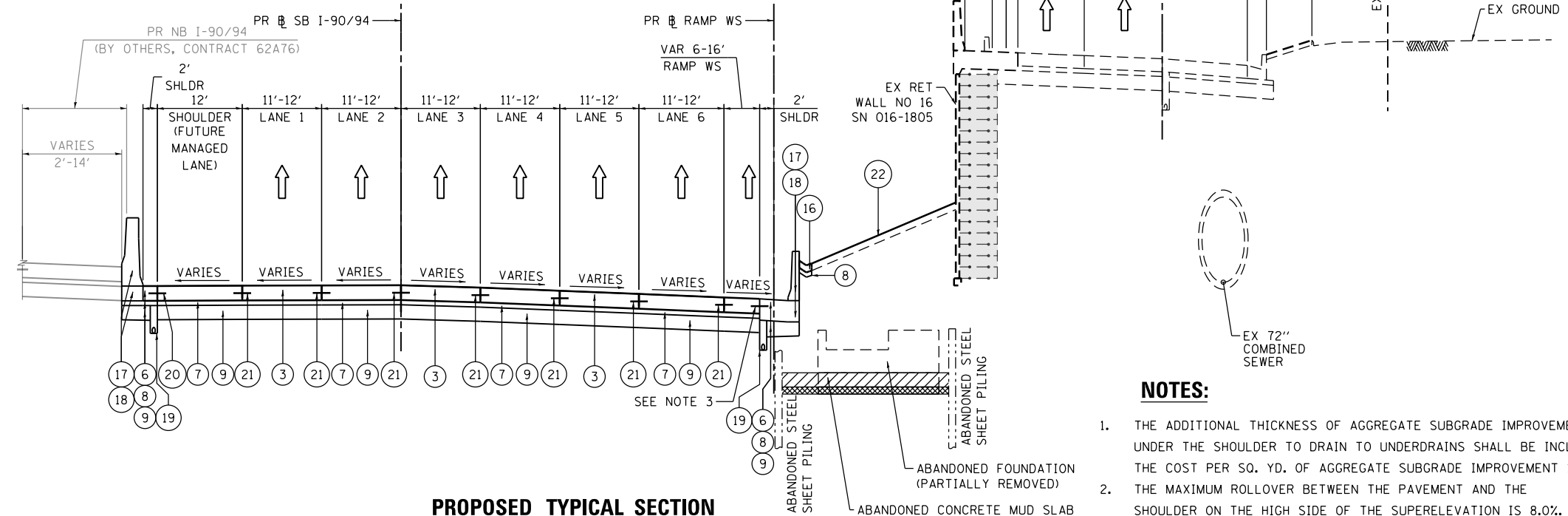
SCALE: NONE SHEET 10 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	42
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

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EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6240+68.51 TO STA 6245+67.24



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6240+68.51 TO STA 6245+67.24

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS #GGD701128.

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"



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 PLOT DATE = 10/4/2019

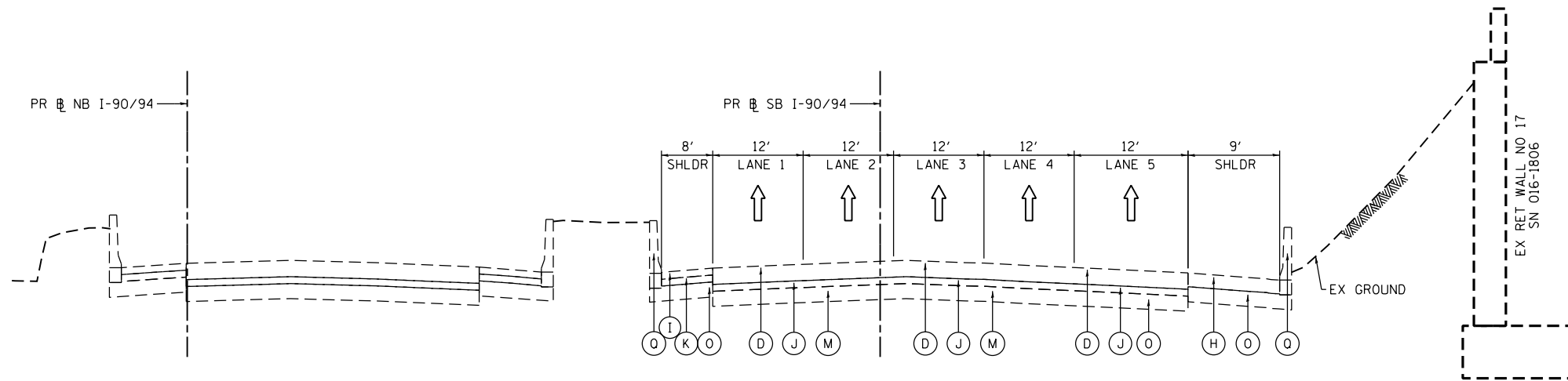
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 CHECKED - MJE
 DATE - 10/4/2019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94
 SCALE: NONE SHEET 11 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	43
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

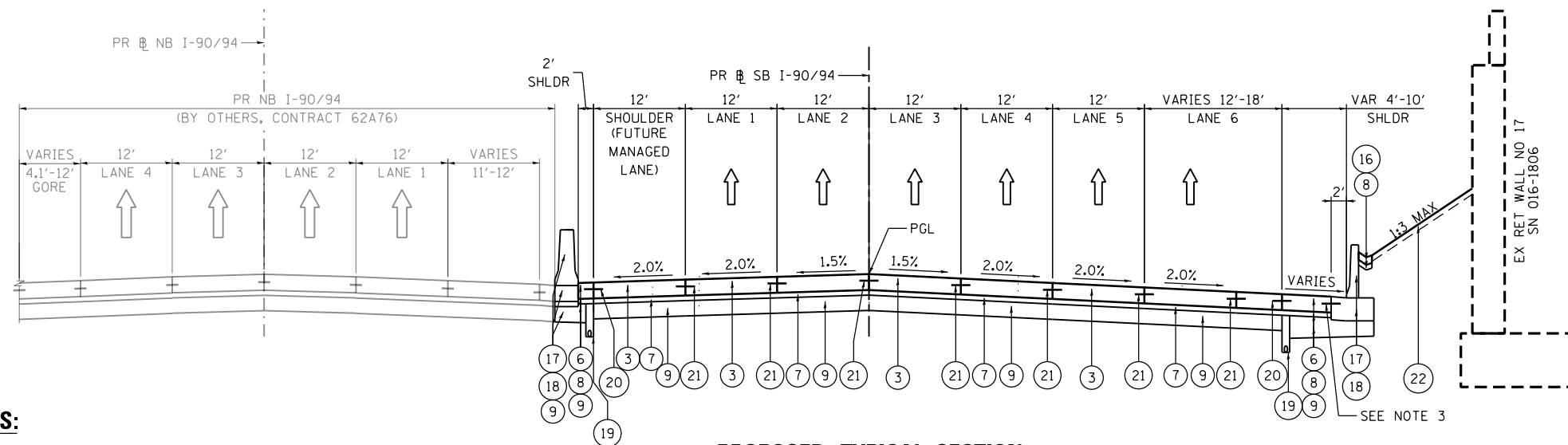
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EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6245+67.24 TO STA 6248+65.35

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6245+67.24 TO STA 6248+65.35

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGDF01128.



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 PLOT DATE = 10/4/2019

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 DRAWN - ZND
 CHECKED - MJE
 DATE - 10/4/2019

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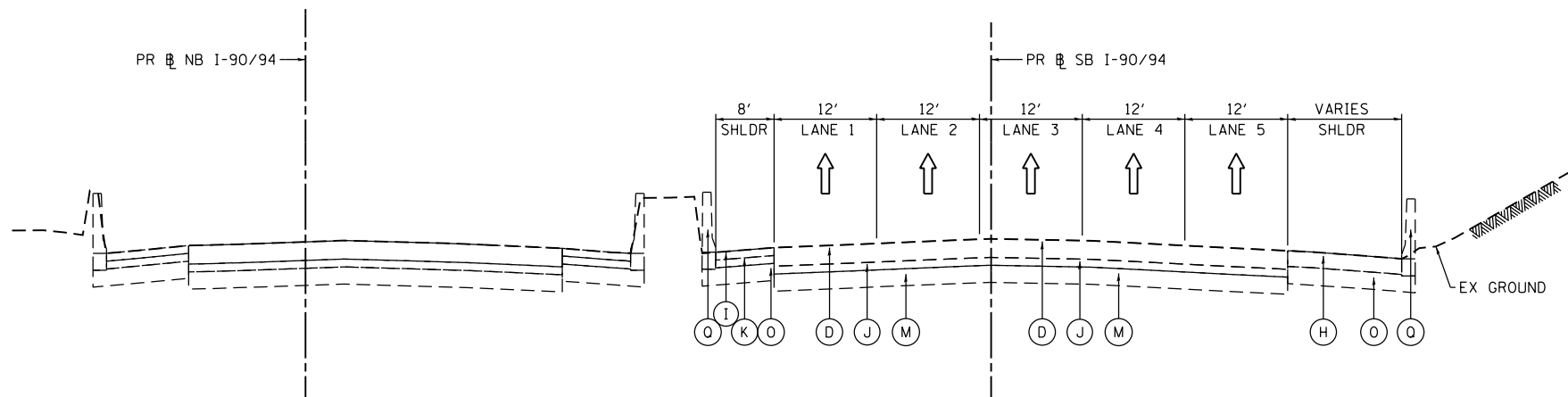
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 SB I-90/94

SCALE: NONE SHEET 12 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	44
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

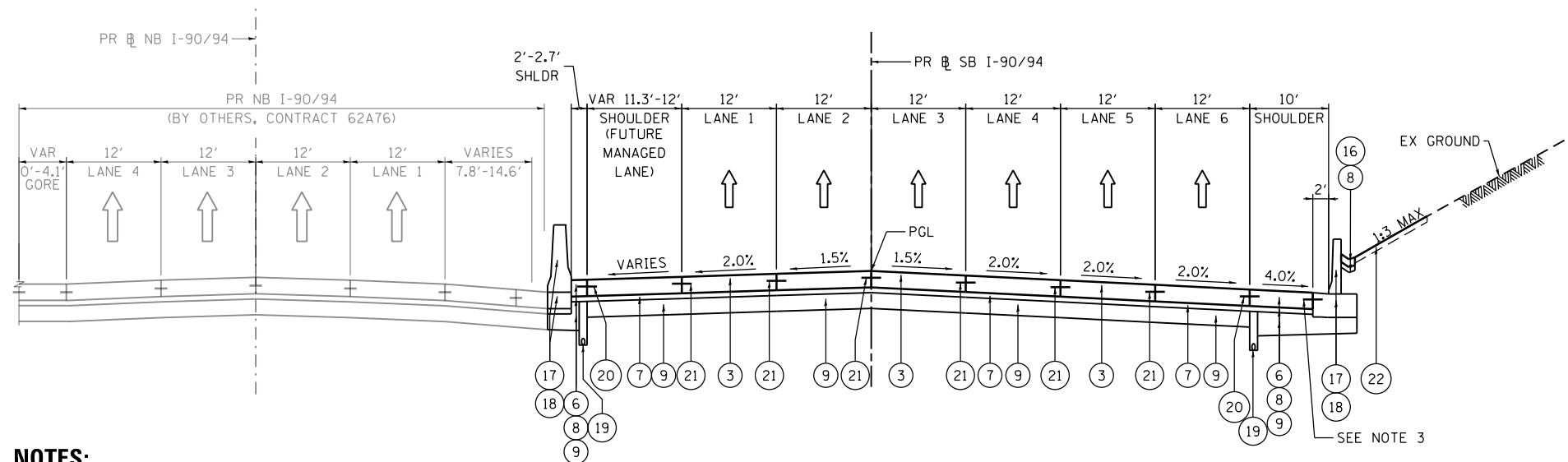
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EXISTING TYPICAL SECTION
SB I-9094
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6248+65.35 TO STA 6250+95.00

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"



PROPOSED TYPICAL SECTION
SB I-9094
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6248+65.35 TO STA 6250+95.00

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGDF01128.



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 PLOT DATE = 10/4/2019

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 CHECKED - MJE
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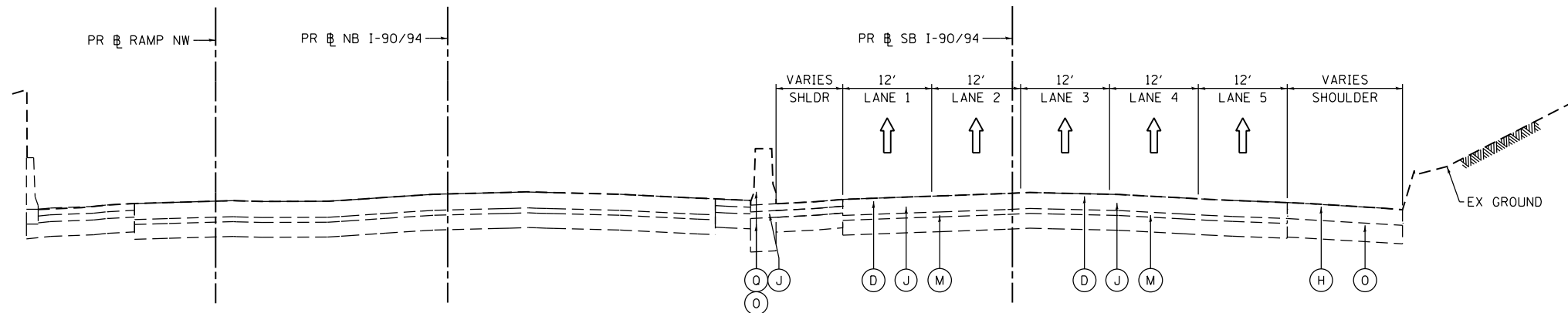
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-9094

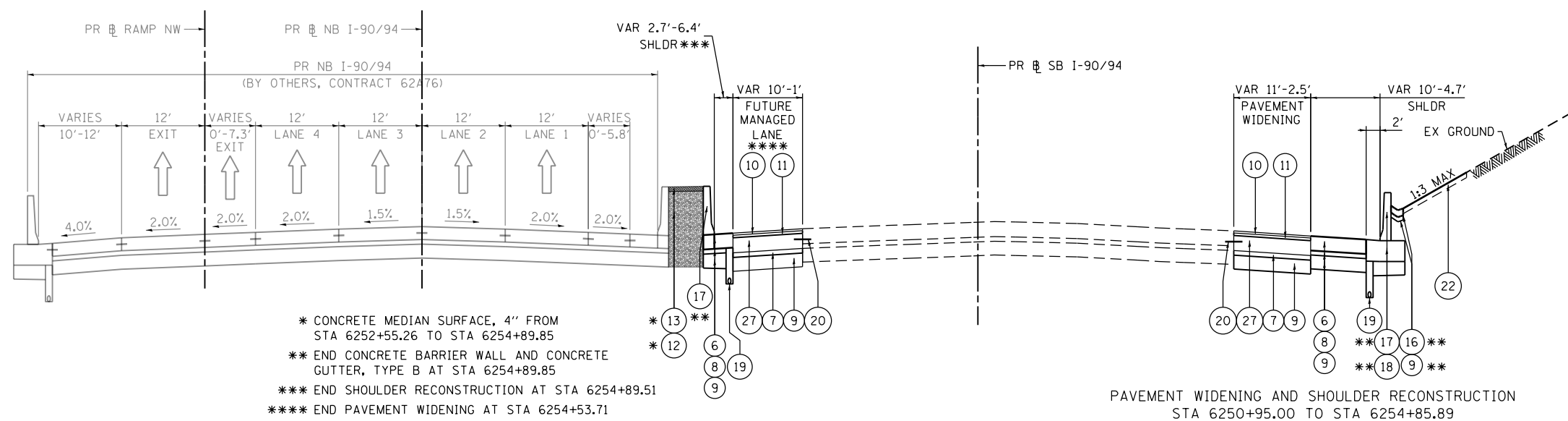
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	45
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				

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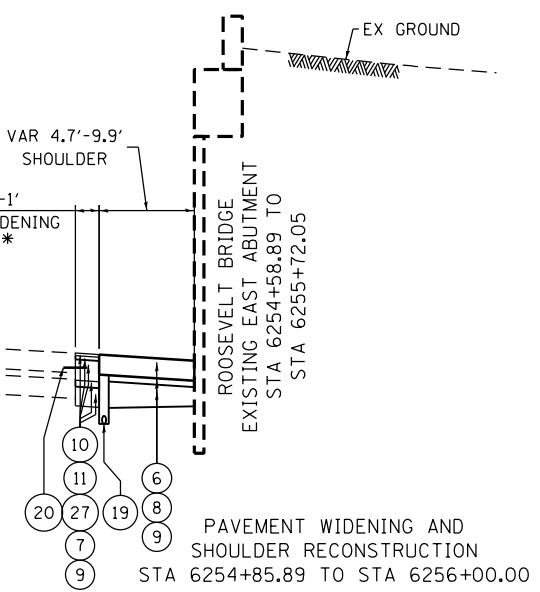


EXISTING TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6250+95.00 TO STA 6256+00.00



PROPOSED TYPICAL SECTION
SB I-90/94
(LOOKING SOUTH)
 PR SB I-90/94
 STA 6250+95.00 TO STA 6256+00.00

PAVEMENT WIDENING AND SHOULDER RECONSTRUCTION
 STA 6250+95.00 TO STA 6254+85.89



PAVEMENT WIDENING AND SHOULDER RECONSTRUCTION
 STA 6254+85.89 TO STA 6256+00.00

EXISTING

- (A) HOT MIX ASPHALT SURFACE COURSE, 1.5"
- (B) HOT MIX ASPHALT BINDER COURSE, 2.5"
- (C) HOT MIX ASPHALT PAVEMENT, 5" TO 11"
- (D) CONTINUOUSLY REINFORCED PCC PAVEMENT, 13"
- (E) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (G) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (H) BITUMINOUS SHOULDER, 13"
- (I) TEMPORARY PAVEMENT (PCC/HMA)
- (J) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (K) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (L) SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (M) SUBBASE GRANULAR MATERIAL, 12"
- (N) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (O) POROUS GRANULAR EMBANKMENT, SPECIAL, 0" TO 30"
- (P) COMBINATION CONCRETE CURB AND GUTTER
- (Q) CONCRETE BARRIER
- (R) TEMPORARY CONCRETE BARRIER (STATE OWNED)
- (S) GUARDRAIL
- (T) PIPE UNDERDRAINS
- (U) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (V) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (W) PORTLAND CEMENT CONCRETE SHOULDERS 11"

PROPOSED

- (1) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (3) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 12 1/2" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (6) PORTLAND CEMENT CONCRETE SHOULDERS 12 1/2"
- (7) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (11) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (12) POROUS GRANULAR EMBANKMENT
- (13) CONCRETE MEDIAN SURFACE, 4"
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (16) CONCRETE GUTTER, TYPE B
- (17) CONCRETE BARRIER WALL (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (18) CONCRETE BARRIER BASE (OF VARIOUS TYPES, SEE ROADWAY DETAILS)
- (19) PIPE UNDERDRAINS 4" OR 6" (SEE DRAINAGE PLANS)
- (20) #6 TIE BARS, 24" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC SHOULDER OR CURB AND GUTTER)
- (21) #6 TIE BARS, 30" LONG AT 36" C-C (INCLUDED IN PRICE FOR BID FOR PCC PAVEMENT)
- (22) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING (SEE EROSION CONTROL PLANS)
- (23) TOPSOIL FURNISH AND PLACE, 24" AND SEEDING
- (24) ANCHOR SLAB (SEE STRUCTURAL PLANS)
- (25) DRILL AND GROUT #8 TIE BARS
- (26) CONCRETE CURB, TYPE B
- (27) PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 13"

NOTES:

1. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER TO DRAIN TO UNDERDRAINS SHALL BE INCLUDED IN THE COST PER SQ. YD. OF AGGREGATE SUBGRADE IMPROVEMENT 12".
2. THE MAXIMUM ROLLOVER BETWEEN THE PAVEMENT AND THE SHOULDER ON THE HIGH SIDE OF THE SUPERELEVATION IS 8.0%.
3. FOR TIE BAR WITH BARRIER BASE, SEE CONCRETE BARRIER DETAILS.
4. FOR SUPERELEVATION/PAVEMENT ELEVATIONS DETAILS, SEE SHEETS 102 TO 111.
5. FOR GORE GRADING DETAILS, SEE SHEETS *GGD*01128.



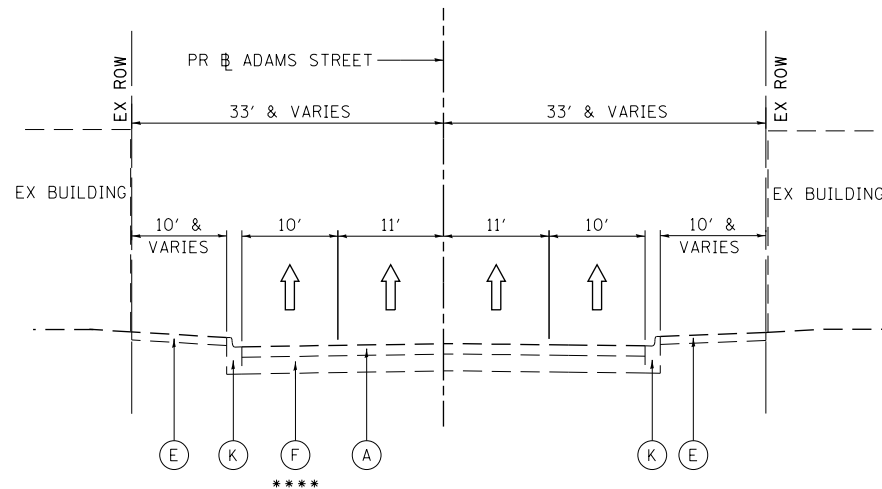
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SB I-90/94

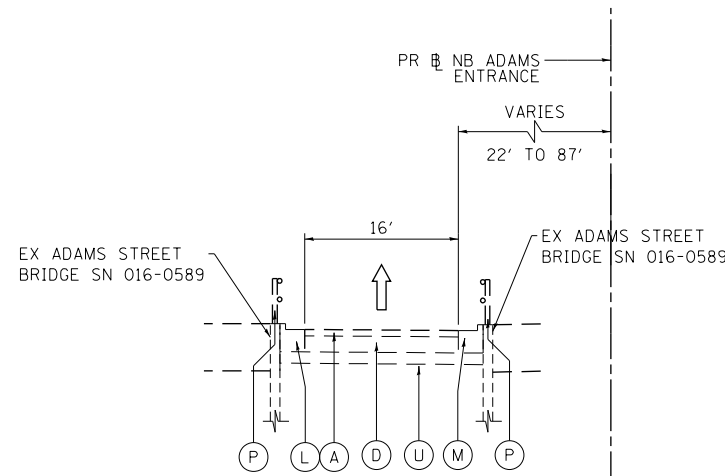
SCALE: NONE SHEET 14 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	714	46
CONTRACT NO. 62A77				
ILLINOIS FED. AID PROJECT				



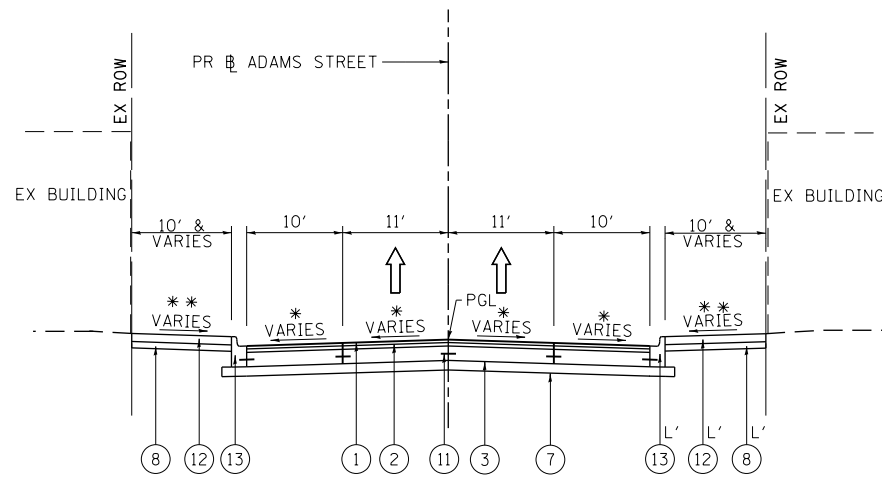
**EXISTING TYPICAL SECTION
ADAMS STREET
(LOOKING EAST)**

STA 8310+46.00 TO STA 8311+59.26
SEE NOTE 1
STA 8315+11.35 TO STA 8316+35.00



**EXISTING TYPICAL SECTION
NB ADAMS STREET ENTRANCE RAMP
(LOOKING NORTH)**

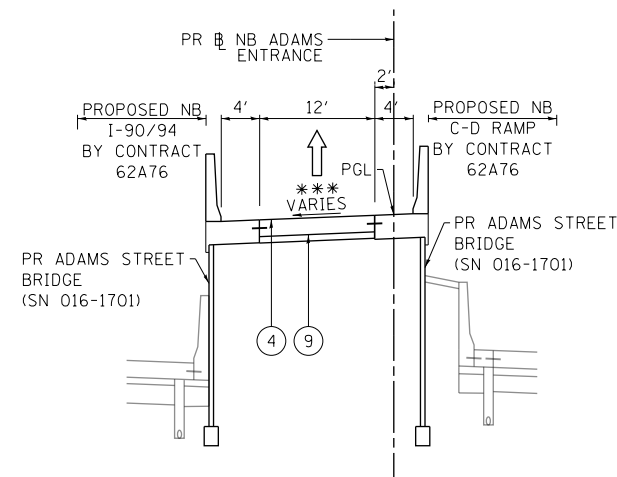
PR NB ADAMS ENTRANCE
STA 8342+31.22 TO STA 8344+49.74



**PROPOSED TYPICAL SECTION
ADAMS STREET
(LOOKING EAST)**

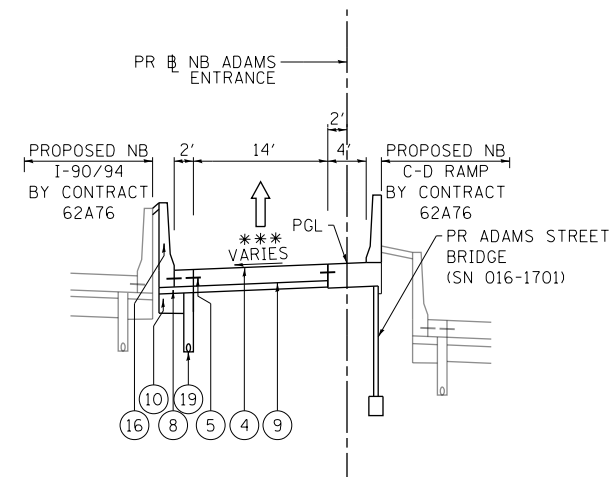
STA 8310+46.00 TO STA 8311+59.26
SEE NOTE 1
STA 8315+11.35 TO STA 8316+35.00

L' STA 8310+46.00 TO STA 8311+20.00
CURB AND GUTTER (SPECIAL)
EXISTING SIDEWALK TO REMAIN



**PROPOSED TYPICAL SECTION
NB ADAMS STREET ENTRANCE RAMP
(LOOKING NORTH)**

PR NB ADAMS ENTRANCE
STA 8342+44.48 TO STA 8343+11.48



**PROPOSED TYPICAL SECTION
NB ADAMS STREET ENTRANCE RAMP
(LOOKING NORTH)**

PR NB ADAMS ENTRANCE
STA 8343+11.48 TO STA 8343+65.65

EXISTING

- (A) HOT-MIX ASPHALT PAVEMENT, 4" TO 11"
- (B) HOT MIX ASPHALT SHOULDERS, 6" TO 13"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, VARIES 0" TO 36"
- (D) PORTLAND CEMENT CONCRETE BASE COURSE, 10"
- (E) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT, 10" TO 10 1/2"
- (G) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7"
- (H) CONCRETE BARRIER, SINGLE FACE AND BASE
- (I) CONCRETE MEDIAN SURFACE
- (J) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- (K) COMBINATION CONCRETE CURB AND GUTTER, TYPE 3
- (L) COMBINATION CONCRETE CURB AND GUTTER TYPE B V.12
- (M) COMBINATION CONCRETE CURB AND GUTTER TYPE B (SPECIAL)
- (N) SUBBASE GRANULAR MATERIAL, 12"
- (O) GUARDRAIL
- (P) RED RAILING
- (Q) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (R) CONCRETE GUTTER, TYPE B
- (S) AGGREGATE SUBGRADE, 12"
- (T) UNDERGROUND BRIDGE BRACING AND FOOTINGS
- (U) SUBBASE GRANULAR MATERIAL, 6"

PROPOSED

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19, N70 2 1/4"
- (3) PORTLAND CEMENT CONCRETE BASE COURSE, 9"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (6) ITEM NOT USED
- (7) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (10) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (11) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR CURB AND GUTTER, PCC PAVEMENT, PCC BASE COURSE, PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (12) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (13) COMBINATION CONCRETE CURB AND GUTTER, TYPE B V.12 (CDOT)
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (15) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
- (17) CONCRETE BARRIER BASE
- (18) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- (19) PIPE UNDERDRAINS, TYPE 2, 6"
- (20) CONCRETE GUTTER, TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4 INCH
- (22) SELECT GRANULAR BACKFILL (SPECIAL)

NOTES:

- 1. SEE SHEE#ADM-080R BRIDGE TYPICAL SECTION FROM STA 8311+59.26 TO STA 8315+11.35
- *2. TYPICAL LOCAL ROADWAY CROSS SLOPE VARIES BETWEEN 1.56% AND 3.23% AS INDICATED ON THE PLANS. SEE ROADWAY GRADING PLAN DETAILS FOR ROADWAY SLOPE TRANSITIONS.
- **3. AS INDICATED ON THE ROADWAY PLAN, TYPICALLY 6' MIN OF PROPOSED SIDEWALK WIDTH MUST HAVE A CROSS SLOPE OF 1:64 OR LESS.
- ***4. SEE ROADWAY GRADING PLAN DETAILS FOR CROSS SLOPES.
- 5. PCC BASE COURSE SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 20' MAXIMUM SPACING, (INCLUDED IN PRICE FOR BID FOR PCC BASE COURSE).
- ***6. PORTIONS OF THE EXISTING ROADWAY BASE MAY BE BRICK OR GRANITE PAVERS. PAVERS SHALL BE SALVAGED. CONTACT MAY TOY, PRESIDENT OF THE SKINNER PARK ADVISORY COUNCIL MTOY@SKINNERPARK.ORG OR (312) 765-3525 TO ARRANGE FOR PICKUP.

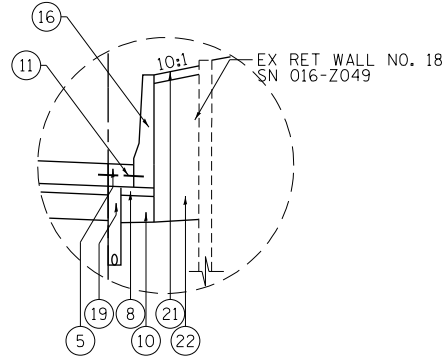
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PLOT DATE = 10/17/2019	DATE - 7-23-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

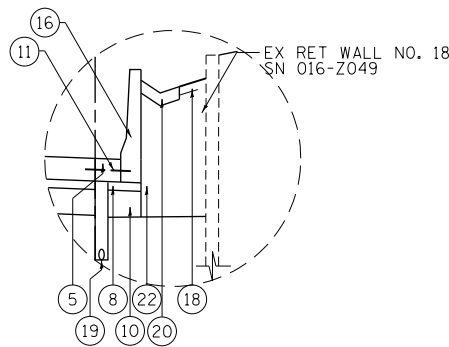
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ADAMS STREET AND ENTRANCE RAMP		90/94/290	2014-15R&B-R	COOK	627	26
SCALE: NONE	SHEET 1 OF 8 SHEETS	STA.	TO STA.	CONTRACT NO. 60X94		
ILLINOIS FED. AID PROJECT						

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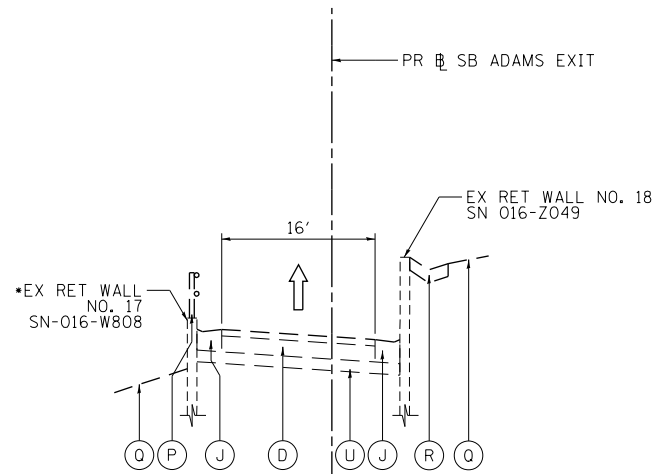
DETAIL A

STA 8387+45.00 TO STA 8384+03.83
STA 8386+02.85 TO STA 8386+53.86



DETAIL B

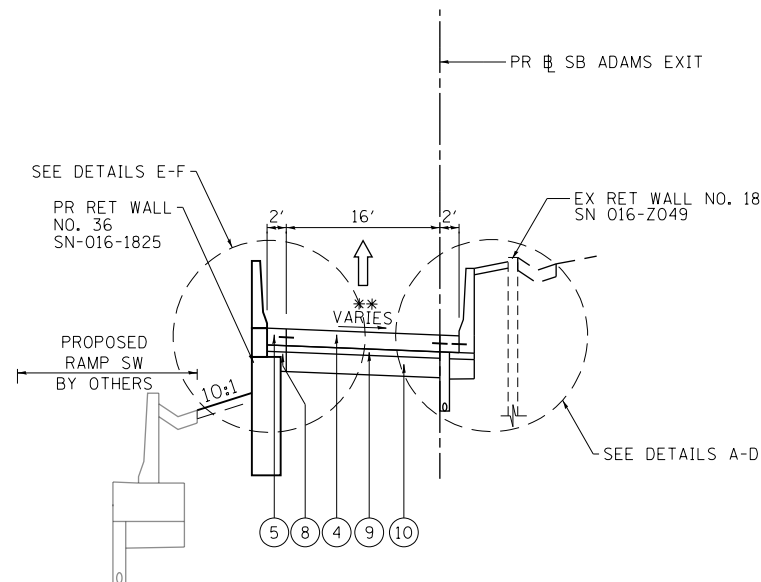
STA 8384+03.83 TO STA 8386+02.85



**EXISTING TYPICAL SECTION
SB ADAMS STREET EXIT RAMP
(LOOKING SOUTH)**

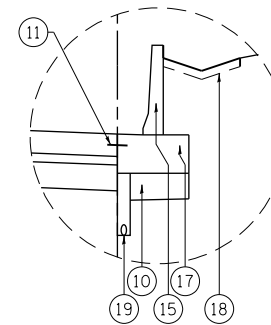
PR SB ADAMS EXIT
STA 8383+45.00 TO STA 8387+85.07

* GUARDRAIL FROM STA 8384+66.85
TO STA 8385+14.75
RETAINING WALL WITH RED RAILING
FROM 8385+14.75 TO STA 8387+83.79



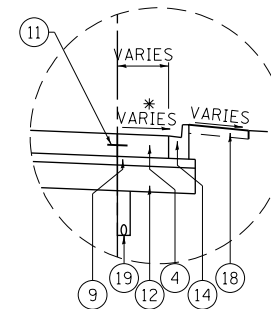
**PROPOSED TYPICAL SECTION
SB ADAMS STREET EXIT RAMP
(LOOKING SOUTH)**

PR SB ADAMS EXIT
STA 8383+45.00 TO STA 8387+85.07



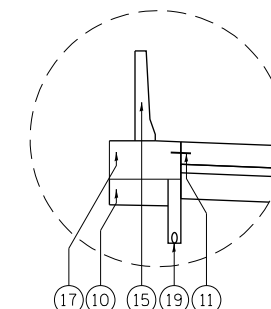
DETAIL C

STA 8386+53.86 TO STA 8387+43.58



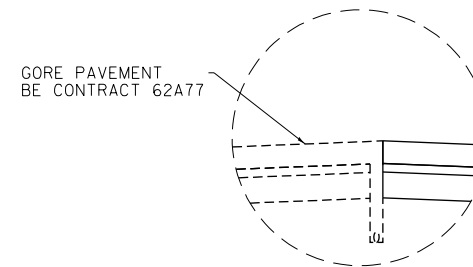
DETAIL D

STA 8387+43.58 TO STA 8387+85.07



DETAIL E

STA 8384+29.09 TO STA 8384+81.49



DETAIL F

STA 8383+45.00 TO STA 8384+29.08

EXISTING

- (A) HOT-MIX ASPHALT PAVEMENT, 4" TO 11"
- (B) HOT MIX ASPHALT SHOULDERS, 6" TO 13"
- (C) POROUS GRANULAR EMBANKMENT, SPECIAL, VARIES 0" TO 36"
- (D) PORTLAND CEMENT CONCRETE BASE COURSE, 10"
- (E) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT, 10" TO 10 1/2"
- (G) CONTINUOUSLY REINFORCED PCC PAVEMENT, 7"
- (H) CONCRETE BARRIER, SINGLE FACE AND BASE
- (I) CONCRETE MEDIAN SURFACE
- (J) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- (K) COMBINATION CONCRETE CURB AND GUTTER, TYPE 3
- (L) COMBINATION CONCRETE CURB AND GUTTER TYPE B V.12
- (M) COMBINATION CONCRETE CURB AND GUTTER TYPE B (SPECIAL)
- (N) SUBBASE GRANULAR MATERIAL, 12"
- (O) GUARDRAIL
- (P) RED RAILING
- (Q) GROUND SURFACE (ASSUME EXISTING 4" TOPSOIL DEPTH)
- (R) CONCRETE GUTTER, TYPE B
- (S) AGGREGATE SUBGRADE, 12"
- (T) UNDERGROUND BRIDGE BRACING AND FOOTINGS
- (U) SUBBASE GRANULAR MATERIAL, 6"

PROPOSED

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19, N70 2 1/4"
- (3) PORTLAND CEMENT CONCRETE BASE COURSE, 9"
- (4) PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)
- (5) PORTLAND CEMENT CONCRETE SHOULDERS 9"
- (6) ITEM NOT USED
- (7) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (8) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (9) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- (10) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (11) TIE BARS PER STANDARD 420001-08 (INCLUDED IN PRICE FOR BID FOR CURB AND GUTTER, PCC PAVEMENT, PCC BASE COURSE, PCC SHOULDERS OF THICKNESS SPECIFIED) SEE JOINTING PLANS FOR ADDITIONAL INFORMATION
- (12) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (13) COMBINATION CONCRETE CURB AND GUTTER, TYPE B V.12 (CDOT)
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (15) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT
- (16) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
- (17) CONCRETE BARRIER BASE
- (18) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING OR SODDING, (SEE EROSION CONTROL PLANS)
- (19) PIPE UNDERDRAINS, TYPE 2, 6"
- (20) CONCRETE GUTTER, TYPE A
- (21) CONCRETE MEDIAN SURFACE, 4 INCH
- (22) SELECT GRANULAR BACKFILL (SPECIAL)

NOTES:

** 1. SEE ROADWAY GRADING PLAN DETAILS FOR CROSS SLOPES

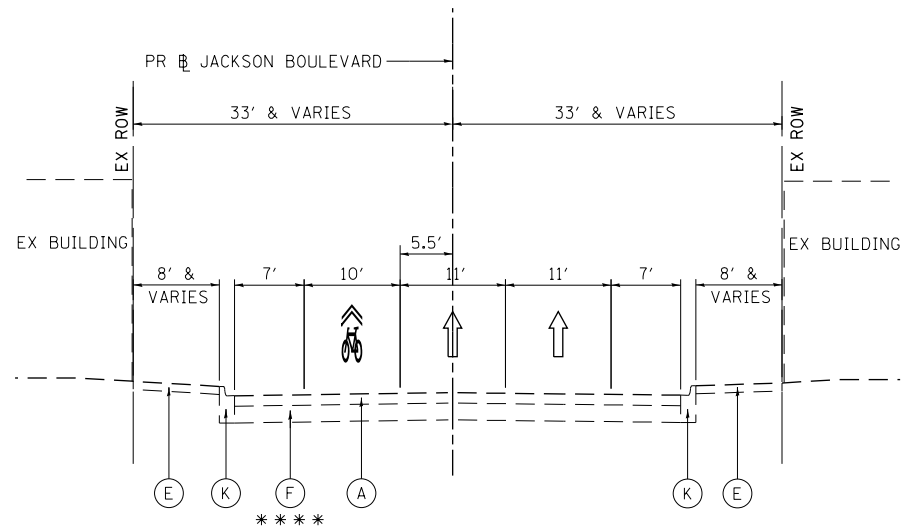
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PLOT DATE = 10/17/2019	DATE - 7-23-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS ADAMS STREET EXIT RAMP			
SCALE: NONE	SHEET 2	OF 8 SHEETS	STA. TO STA.

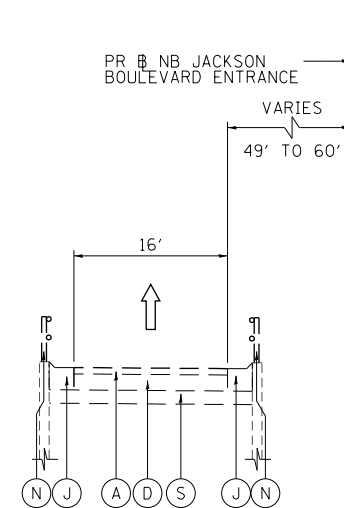
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90/94/290	2014-15R&B-R	COOK	627	27
CONTRACT NO. 60X94			ILLINOIS FED. AID PROJECT	

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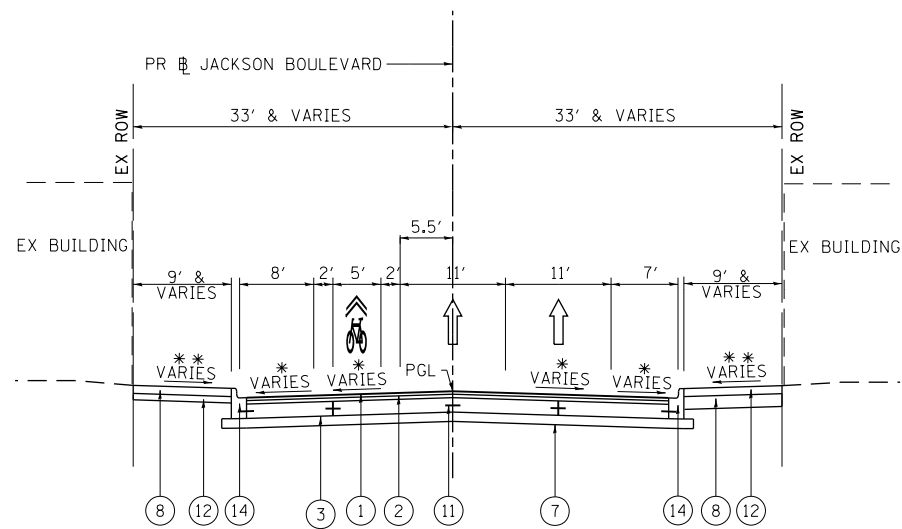
**EXISTING TYPICAL SECTION
JACKSON BOULEVARD
(LOOKING EAST)**

STA 8210+35.00 TO STA 8211+72.05
SEE NOTE 1
STA 8214+89.44 TO STA 8215+70.00



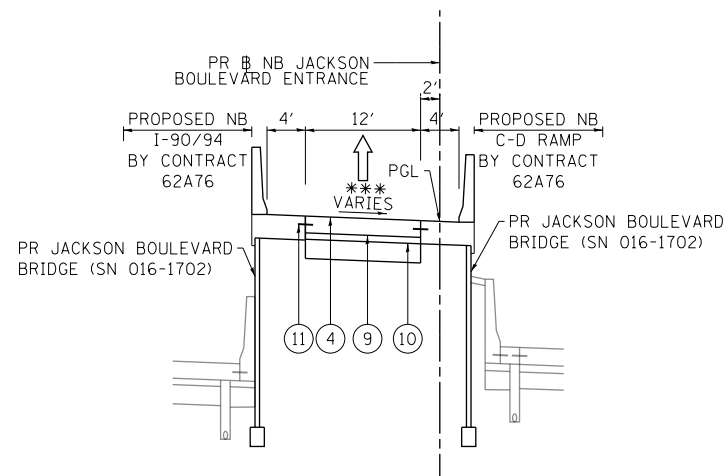
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NB JACKSON BOULEVARD ENTRANCE RAMP
(LOOKING NORTH)**

PR NB JACKSON ENTRANCE
STA 8241+95.12 TO STA 8243+20.18



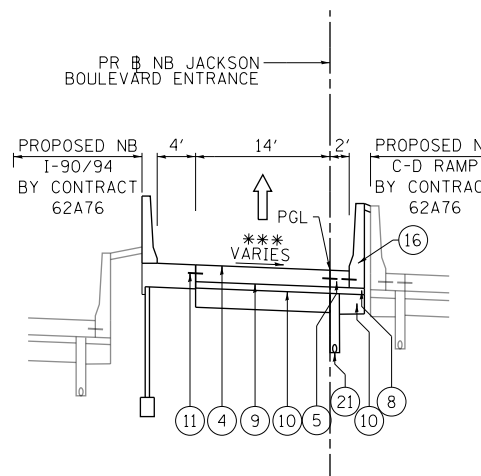
**PROPOSED TYPICAL SECTION
JACKSON BOULEVARD
(LOOKING EAST)**

STA 8210+35.00 TO STA 8211+72.05
SEE NOTE 1
STA 8214+89.44 TO STA 8215+70.00



**PROPOSED TYPICAL SECTION
NB JACKSON BOULEVARD ENTRANCE RAMP
(LOOKING NORTH)**

PR NB JACKSON ENTRANCE
STA 8242+24.38 TO STA 8242+74.29



**PROPOSED TYPICAL SECTION
NB JACKSON BOULEVARD ENTRANCE RAMP
(LOOKING NORTH)**

PR NB JACKSON ENTRANCE
STA 8242+74.29 TO STA 8243+20.18

NOTES:

1. SEE SHEET JAC-0 FOR BRIDGE TYPICAL SECTION FROM STA 8211+72.05 TO STA 8214+89.44
- *2. TYPICAL LOCAL ROADWAY CROSS SLOPE VARIES BETWEEN 1.56% AND 3.22% AS INDICATED ON THE PLANS. SEE ROADWAY GRADING PLAN DETAILS FOR ROADWAY SLOPE TRANSITIONS.
- **3. AS INDICATED ON THE ROADWAY PLAN, TYPICALLY 6' MIN OF PROPOSED SIDEWALK WIDTH MUST HAVE A CROSS SLOPE OF 1:64 OR LESS.
- ***4. SEE ROADWAY GRADING PLAN DETAILS FOR CROSS SLOPES.
5. PCC BASE COURSE SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 20' MAXIMUM SPACING, (INCLUDED IN PRICE FOR BID FOR PCC BASE COURSE).
- ****6. PORTIONS OF THE EXISTING ROADWAY BASE MAY BE BRICK OR GRANITE PAVERS. PAVERS SHALL BE SALVAGED. CONTACT MAY TOY, PRESIDENT OF THE SKINNER PARK ADVISORY COUNCIL MTOY@SKINNERPARK.ORG OR (312) 765-3525 TO ARRANGE FOR PICKUP.

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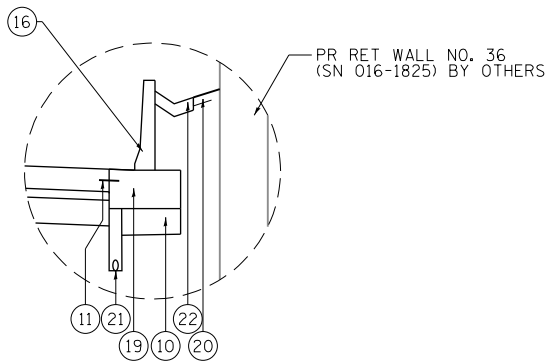
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
JACKSON BOULEVARD AND ENTRANCE RAMP**

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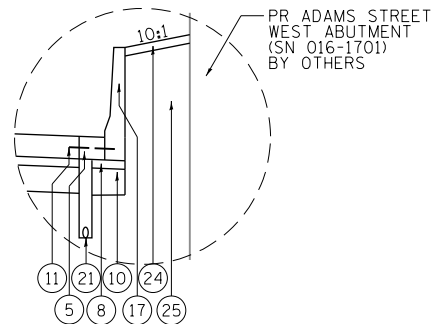
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90/94/290	2014-15R&B-R	COOK	627	28
			CONTRACT NO. 60X94	
ILLINOIS FED. AID PROJECT				

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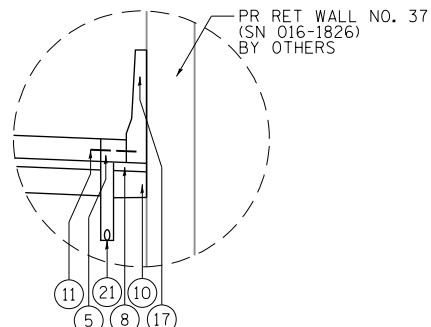
DETAIL A

STA 8281+91.96 TO STA 8282+03.37



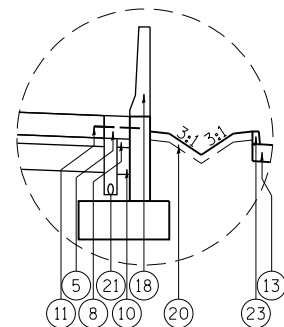
DETAIL B

STA 8282+03.37 TO STA 8282+56.43



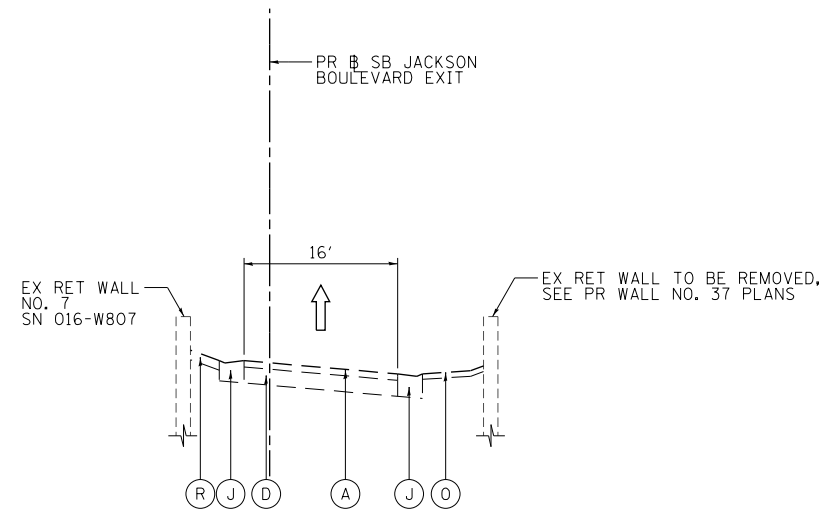
DETAIL C

STA 8282+56.43 TO STA 8286+02.19



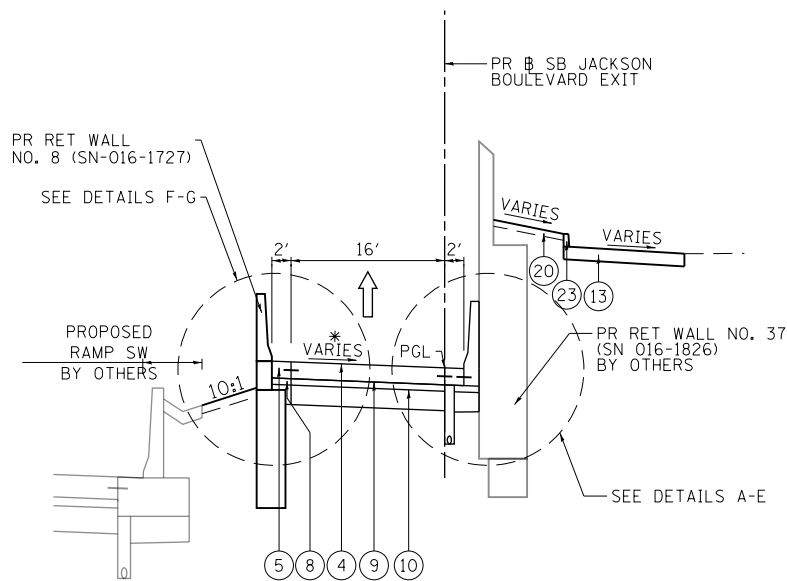
DETAIL D

STA 8286+02.19 TO STA 8286+67.20



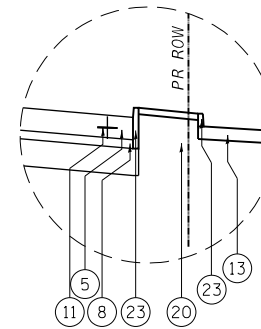
**EXISTING TYPICAL SECTION
SB JACKSON BOULEVARD EXIT RAMP
(LOOKING SOUTH)**

PR SB JACKSON EXIT
STA 8281+91.96 TO STA 8286+67.26



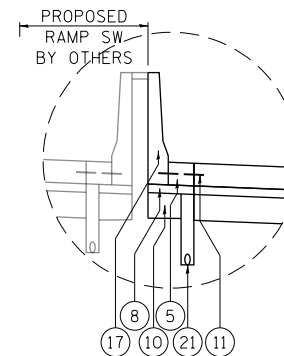
**PROPOSED TYPICAL SECTION
SB JACKSON BOULEVARD EXIT RAMP
(LOOKING SOUTH)**

PR SB JACKSON EXIT
STA 8281+91.96 TO STA 8286+67.26



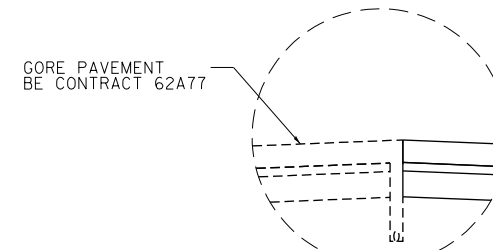
DETAIL E

STA 8286+02.19 TO STA 8286+67.20



DETAIL F

STA 8283+29.36 TO STA 8283+53.24



DETAIL G

STA 8281+91.96 TO 8283+29.36

NOTES:

** 1. SEE ROADWAY GRADING PLAN DETAILS FOR CROSS SLOPES

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PLOT DATE = 10/17/2019	DATE - 7-23-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
JACKSON BOULEVARD EXIT RAMP**

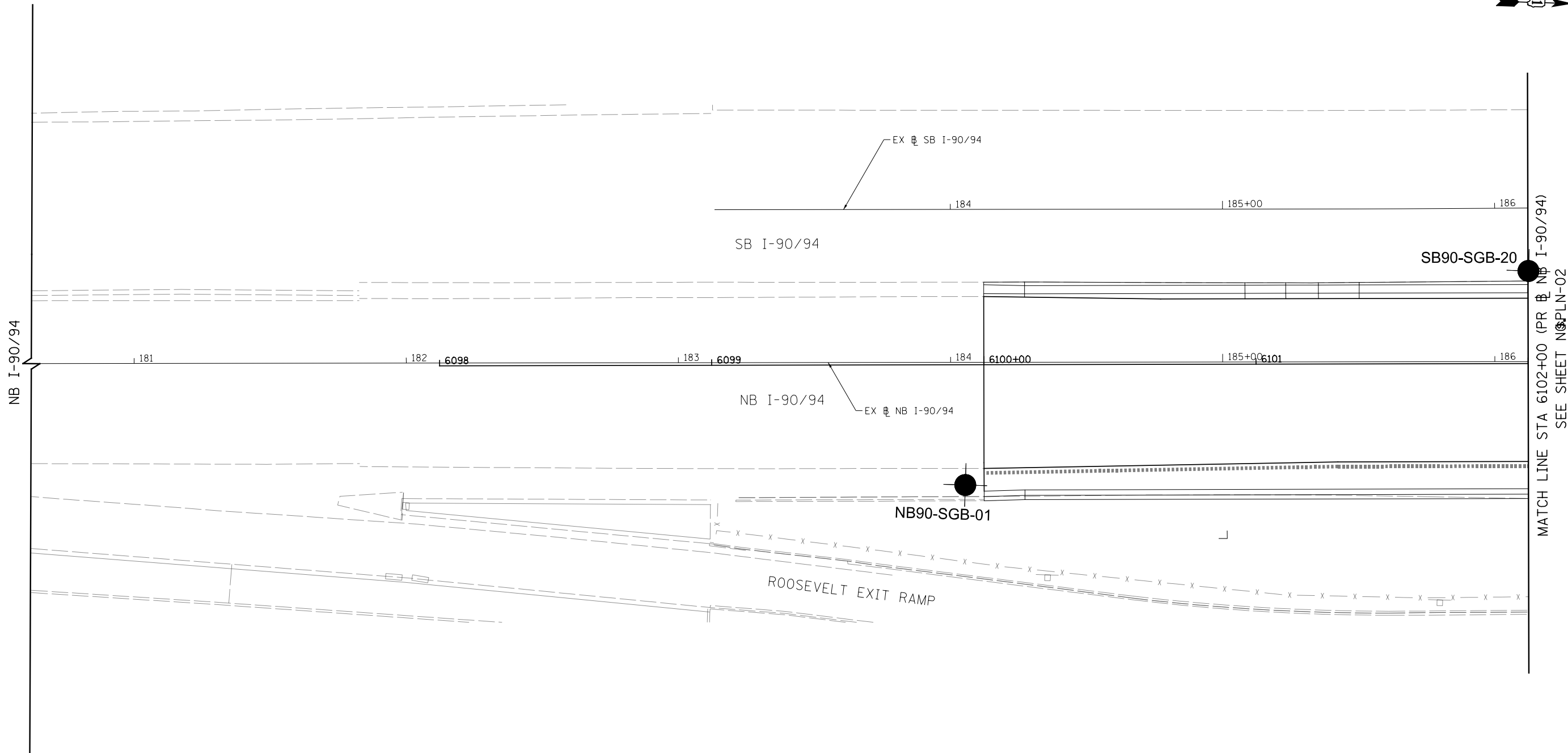
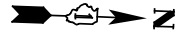
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 60X94
ILLINOIS FED. AID PROJECT				

APPENDIX E

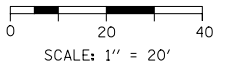
Soil Boring Location Plans and Profiles

- I-90/94 NB and Connecting Ramps
- I-90/94 SB and Connecting Ramps



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. \$JNT001\$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. \$ATB001\$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR \$NB I-90/94\$ UNLESS OTHERWISE NOTED.



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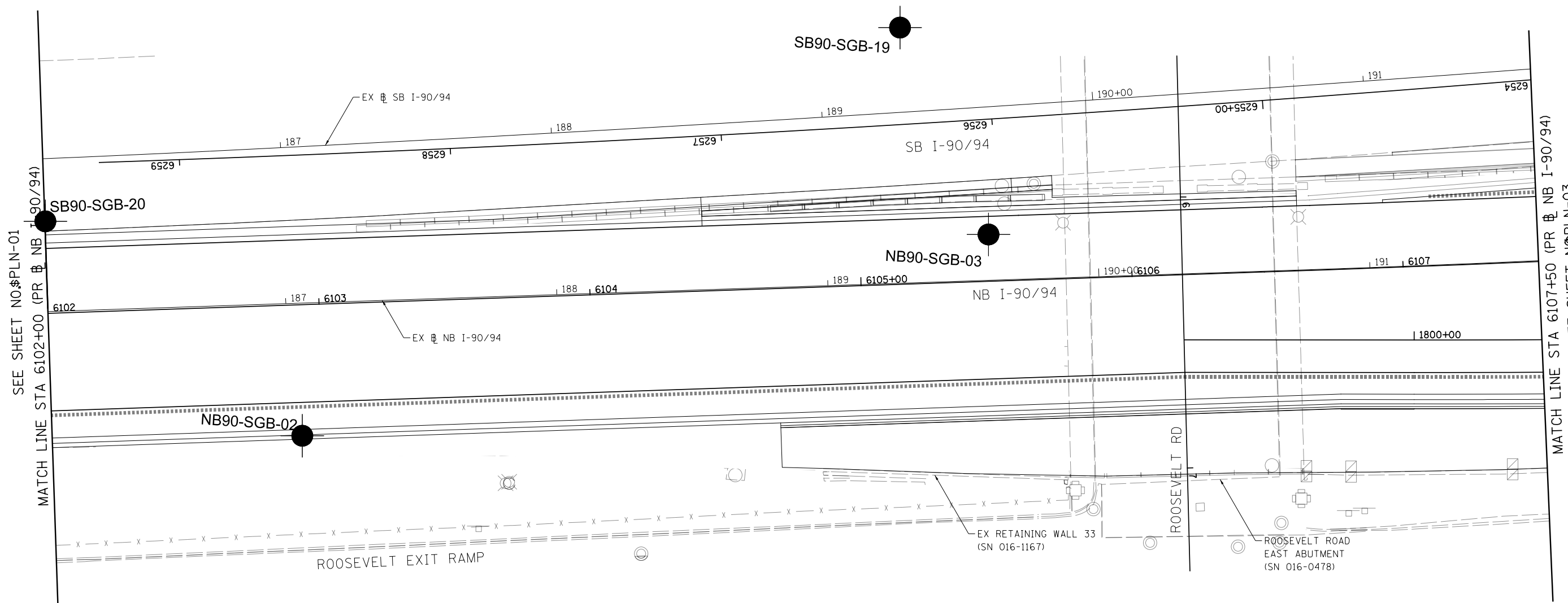
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PLOT DATE = \$DATE\$	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

SCALE: 1"=20' SHEET \$PLN-01\$ OF \$PLN-TOTSHEETS\$ STA. 6098+00 TO STA. 6102+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

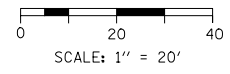


SEE SHEET NO. \$PLN-01
MATCH LINE STA 6102+00 (PR # NB I-90/94)

MATCH LINE STA 6107+50 (PR # NB I-90/94)
SEE SHEET NO. \$PLN-03

NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. \$JNT-01\$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. \$ATB-01\$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR # NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = \$FILE\$



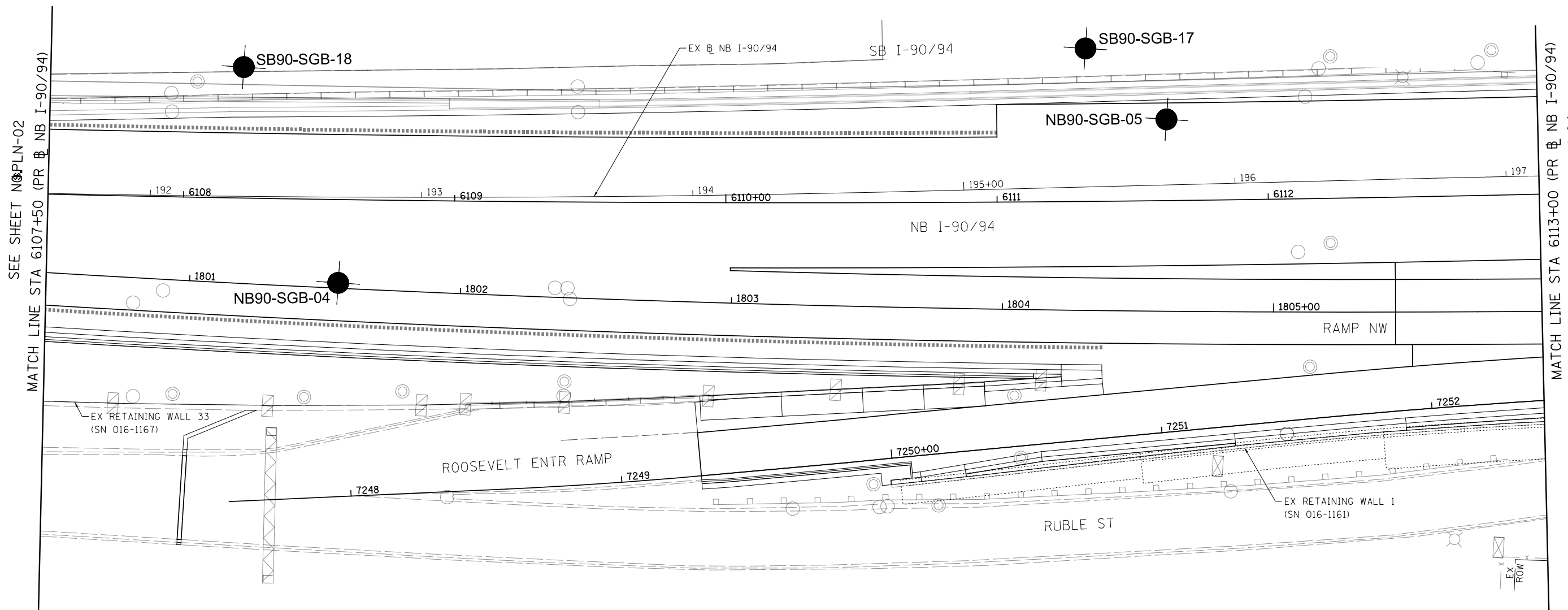
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

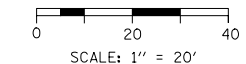
SCALE: 1"=20' SHEET \$PLN-02 \$PLN-TOTSHEETS STA. 6102+00 TO STA. 6107+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PLN-02
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. \$JNT\$01\$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. \$ATB\$01\$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR \$ NB I-90/94 UNLESS OTHERWISE NOTED.



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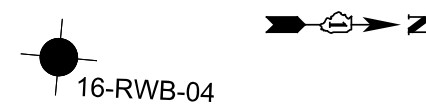
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PLOT DATE = \$DATE\$	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

SCALE: 1"=20' SHEET \$PLN-03\$ OF \$PLN-TOTSHEETS\$ STA. 6107+50 TO STA. 6113+00

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS \$TOT\$	SHEET NO. \$PLN-03\$
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



SB90-SGB-16

SB90-SGB-15

NB90-SGB-07

NB90-SGB-06

1165-B-02
1165-B-02 pm

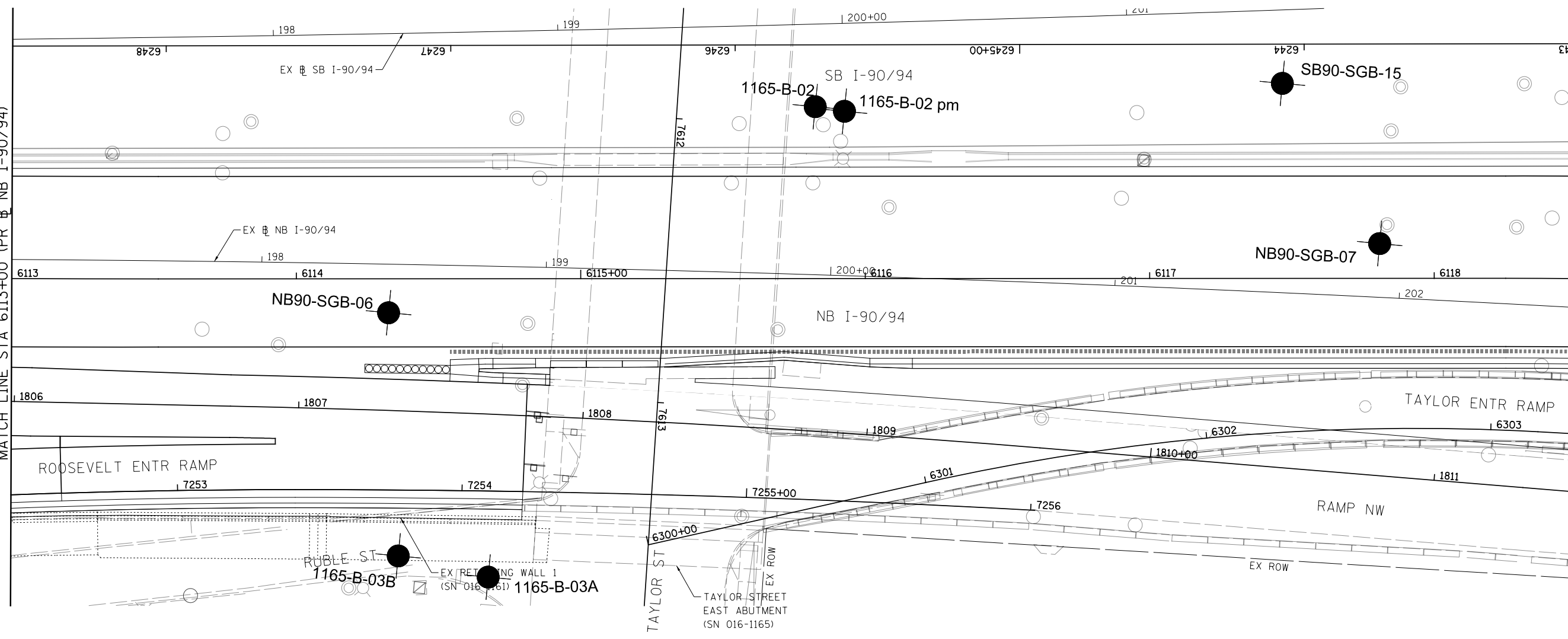
1165-B-03B

1165-B-03A

1165-B-03C
1165-B-03 pm

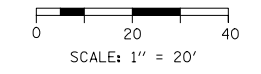
SEE SHEET NO. PLN-03
MATCH LINE STA 6113+00 (PR NB I-90/94)

MATCH LINE STA 6118+50 (PR NB I-90/94)
SEE SHEET NO. PLN-05



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. JNT-01/JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. ATB-01/ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = \$FILE\$



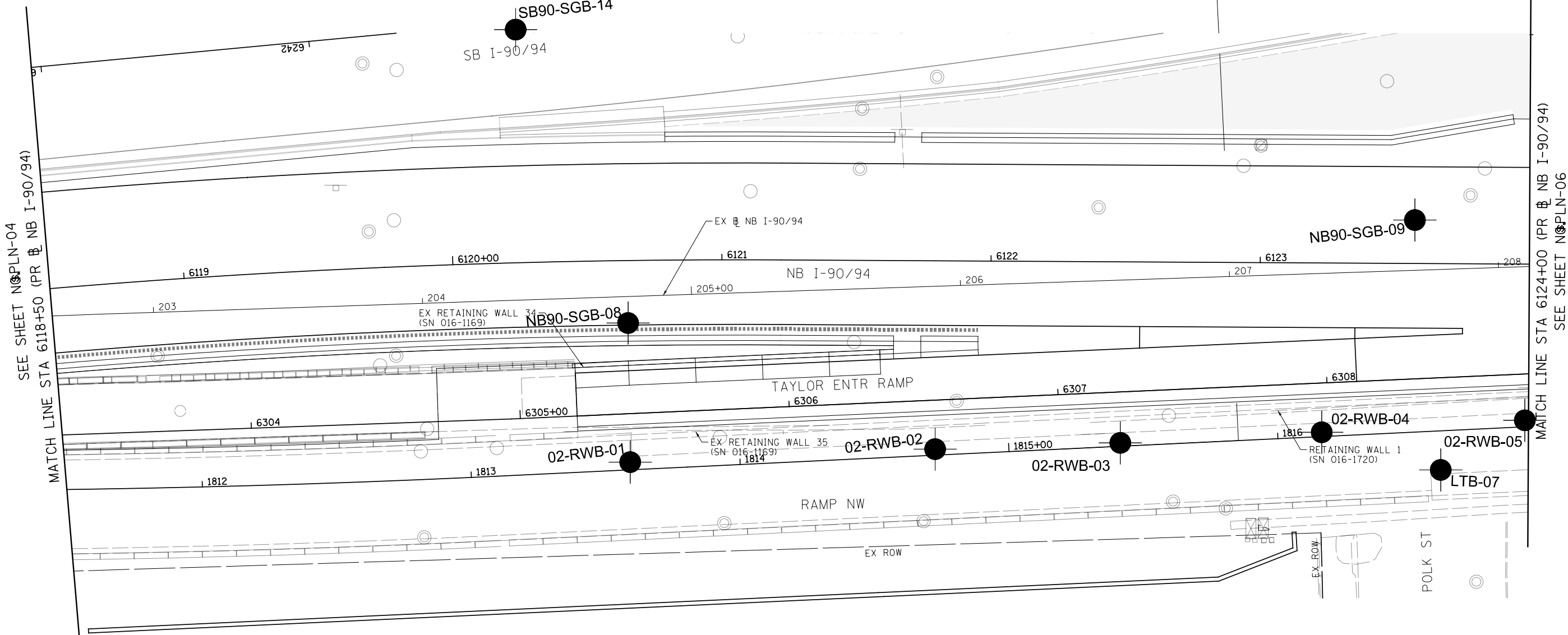
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

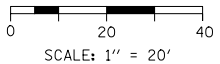
SCALE: 1"=20' SHEET \$PLN-04 \$PLN-TOTSHEETS STA. 6113+00 TO STA. 6118+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PLN-04
			CONTRACT NO. 62A76	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. \$JNT\$01\$JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. \$ATB\$04\$ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR \$ NB I-90/94 UNLESS OTHERWISE NOTED.



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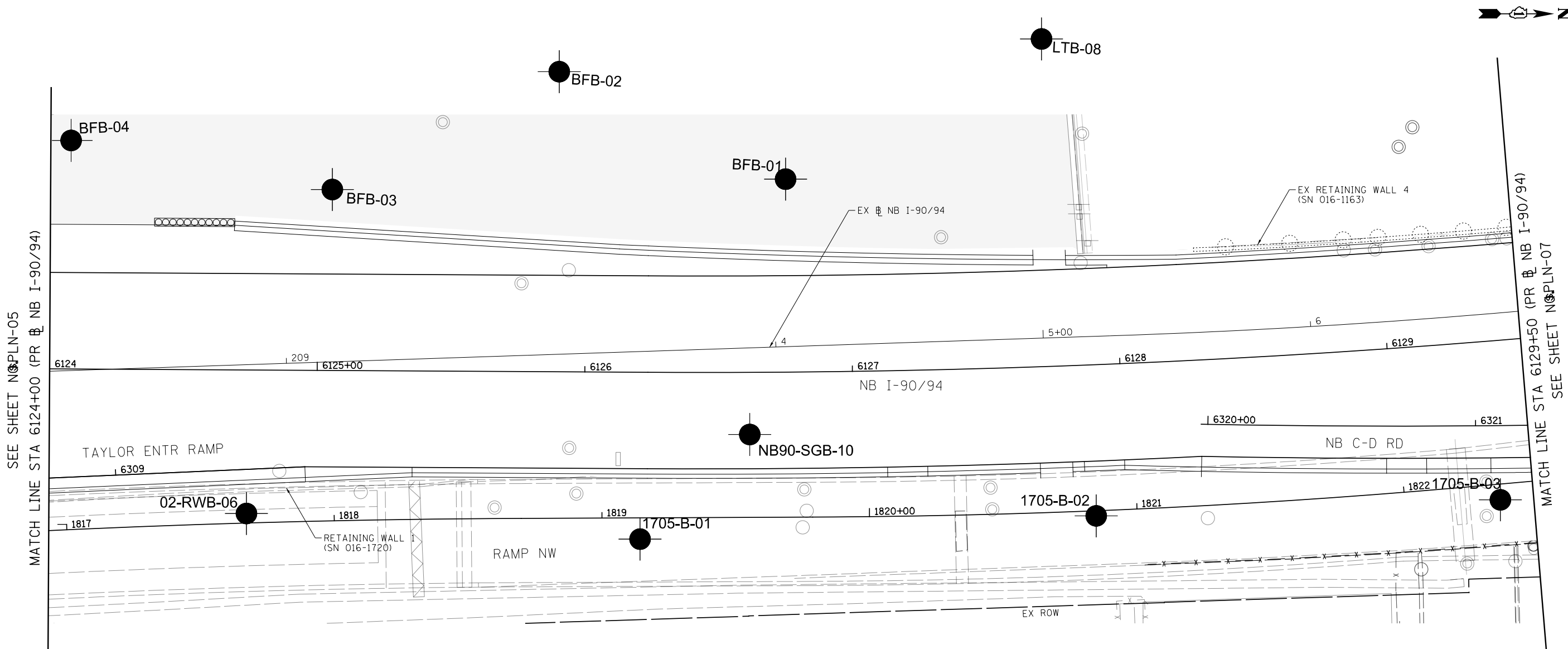
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PLOT DATE = \$DATE\$	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-9094**

SCALE: 1"=20' SHEET \$PLN-05\$ OF \$PLN-TOTSHEETS\$ STA. 6118+50 TO STA. 6124+00

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS \$TOT\$	SHEET NO. \$PLN-05\$
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

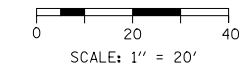


SEE SHEET N0PLN-05
MATCH LINE STA 6124+00 (PR # NB I-90/94)

MATCH LINE STA 6129+50 (PR # NB I-90/94)
SEE SHEET N0PLN-07

NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. #JNT#D1#JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. #ATB#CATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR # NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = #FILE#



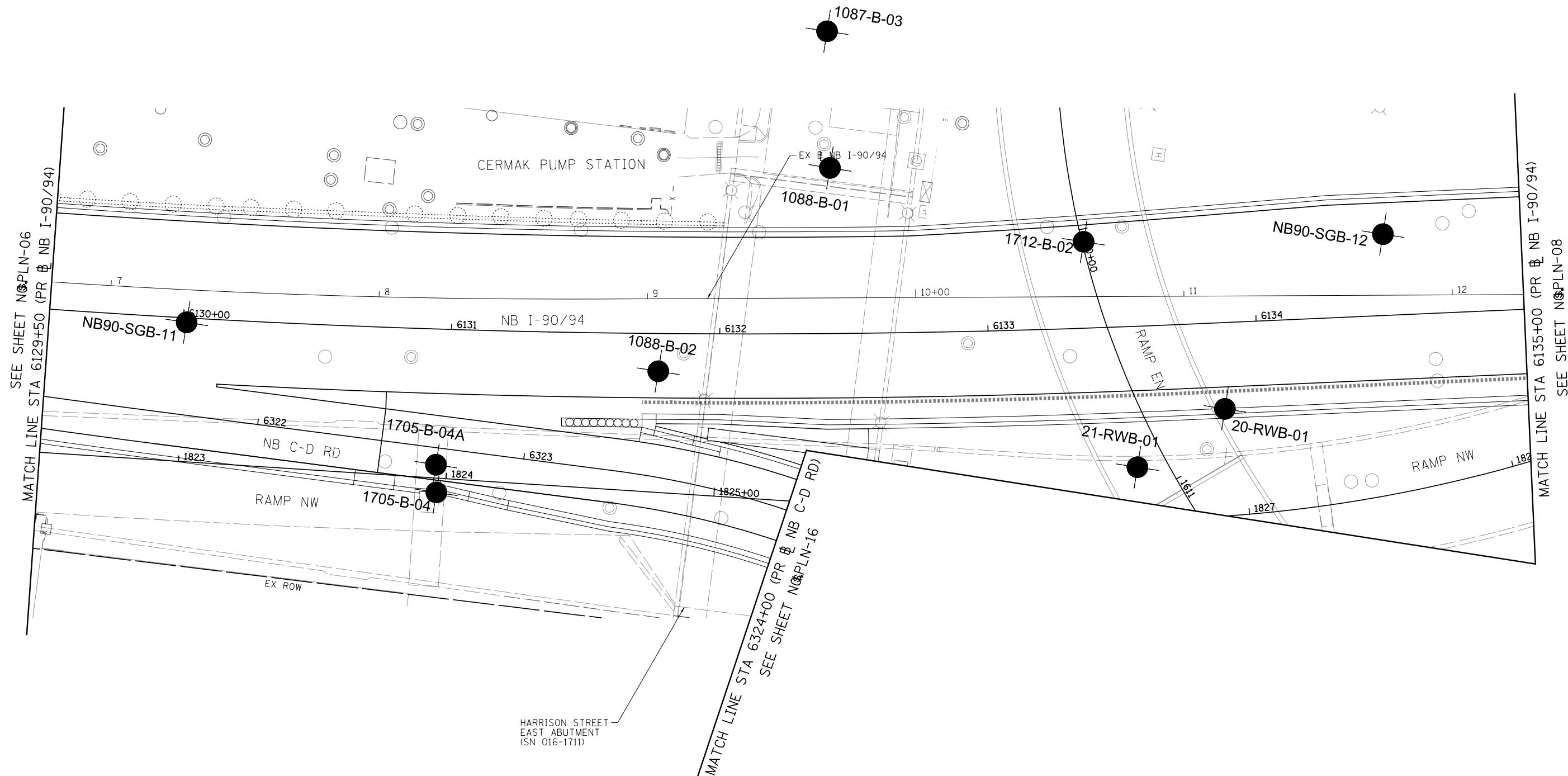
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PLOT SCALE = #SCALE#	CHECKED - #PLN-10-CH	REVISED -
PLOT DATE = #DATE#	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

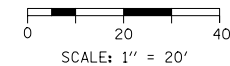
SCALE: 1"=20' SHEET# #PLN-06 #PLN-TOTSHEETS STA. 6124+00 TO STA. 6129+50

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS #TOT	SHEET NO. #PLN-06
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. #JNT#D1#JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. #ATB#CATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR # NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = #FILE#



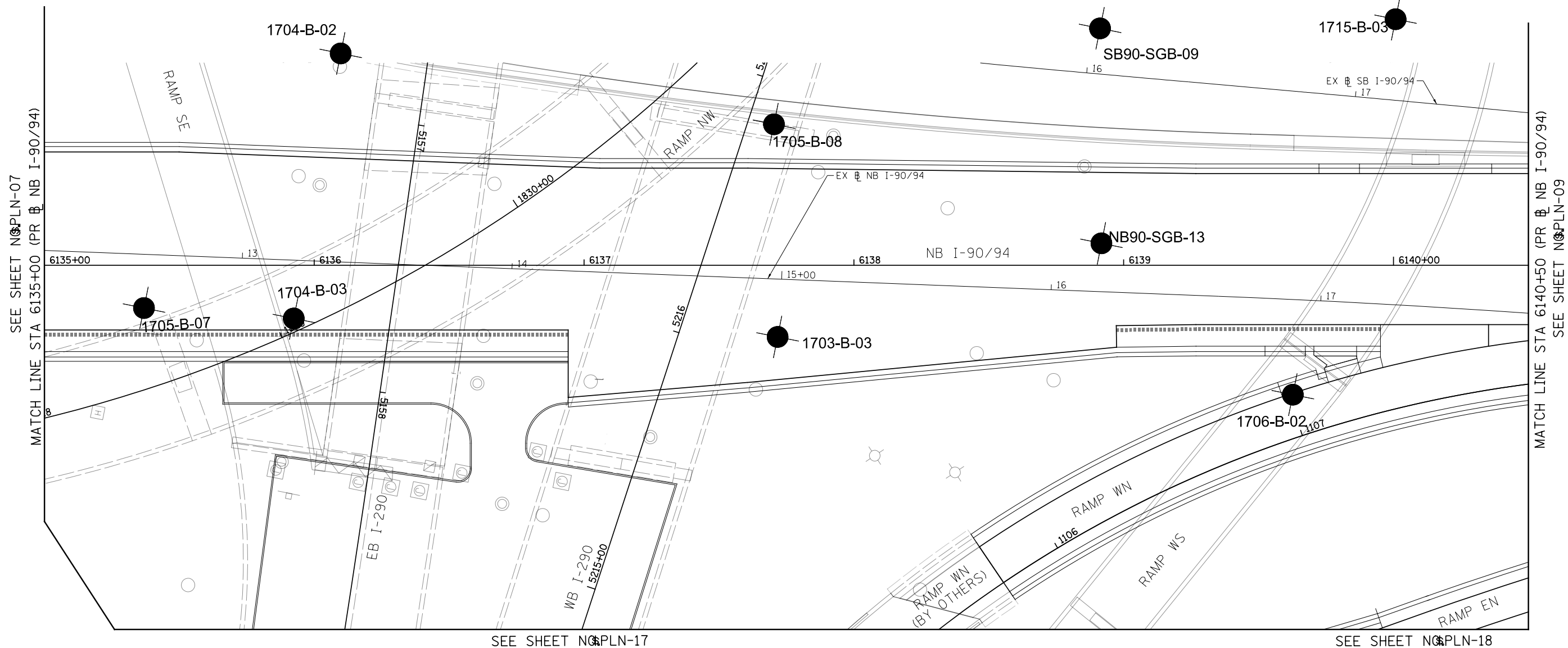
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PLOT DATE = #DATE#	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

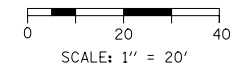
SCALE: 1"=20' SHEET# #PLN-07 #PLN-TOTSHEETS STA. 6129+50 TO STA. 6135+00

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS #TOT	SHEET NO. #PLN-07
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. #JNT#01#JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. #ATED#01#ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR # NB I-90/94 UNLESS OTHERWISE NOTED.
4. SEE SHEET NO. #PLN#09 MAINTENANCE LOT DETAILS



FILE PATH = #FILE#



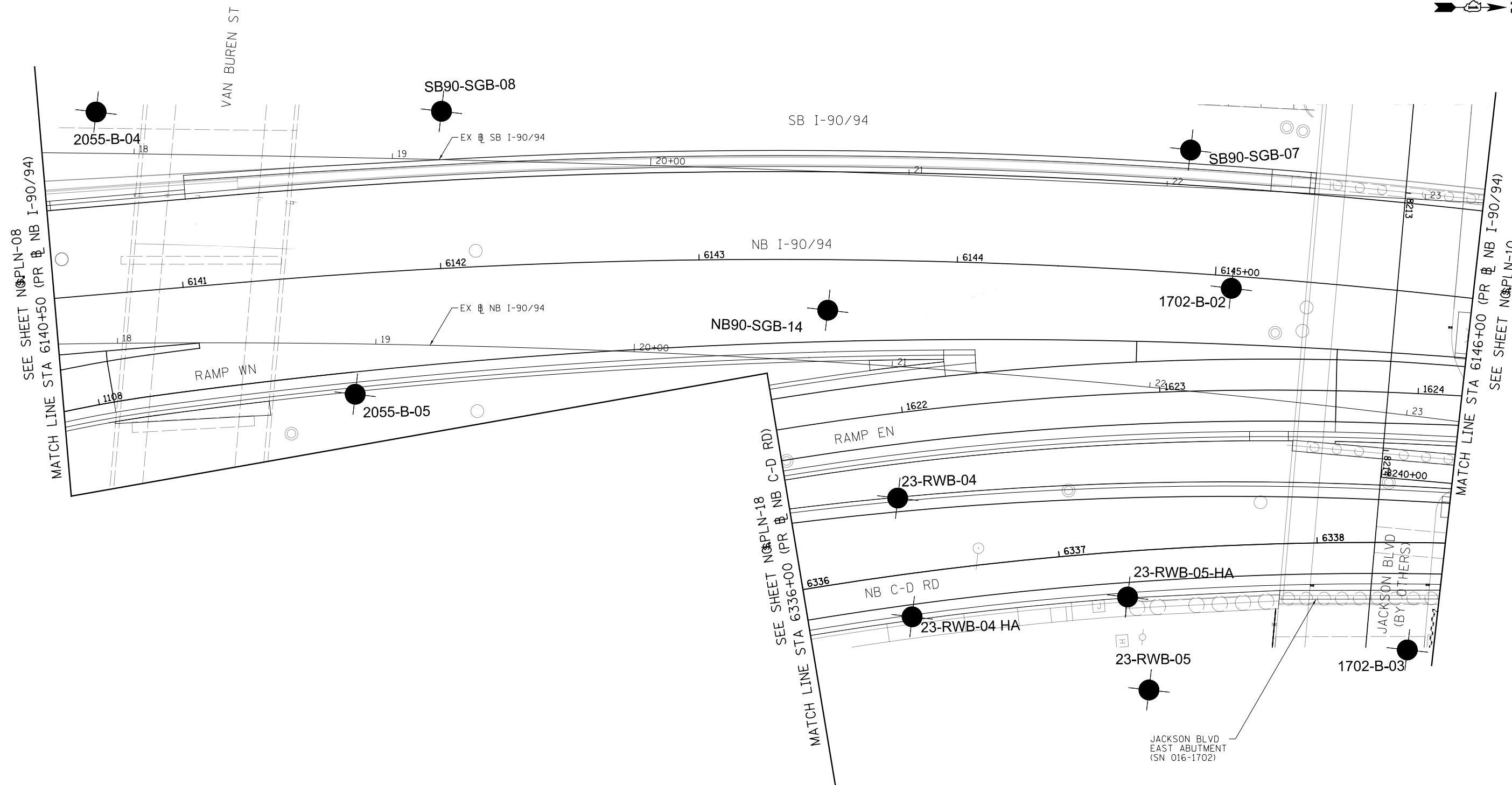
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PLOT SCALE = #SCALE#	CHECKED - #PLN-10-CH	REVISED -
PLOT DATE = #DATE#	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

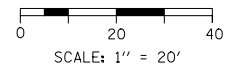
SCALE: 1"=20' SHEET# #PLN-08 #PLN-TOTSHEETS STA. 6135+00 TO STA. 6140+50

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS #TOT #PLN-08	SHEET NO. 62A76
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. $\$JNT\$JNT-18$
2. SEE ALIGNMENT AND TIES SHEETS NO. $\$ATB\$ATB-16$ FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR $\#$ NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = $\$FILE\$$



$\$FILES\$$	DESIGNED - $\$PLN-10-DE$	REVISED -
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PLOT SCALE = $\$SCALE\$$	CHECKED - $\$PLN-10-CH$	REVISED -
PLOT DATE = $\$DATE\$$	DATE - $\$DATE$	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN I-9094	
SCALE: 1"=20'	SHEET $\$PLN-09$ OF $\$PLN-TOTS$ SHEETS
STA. 6140+50	TO STA. 6146+00

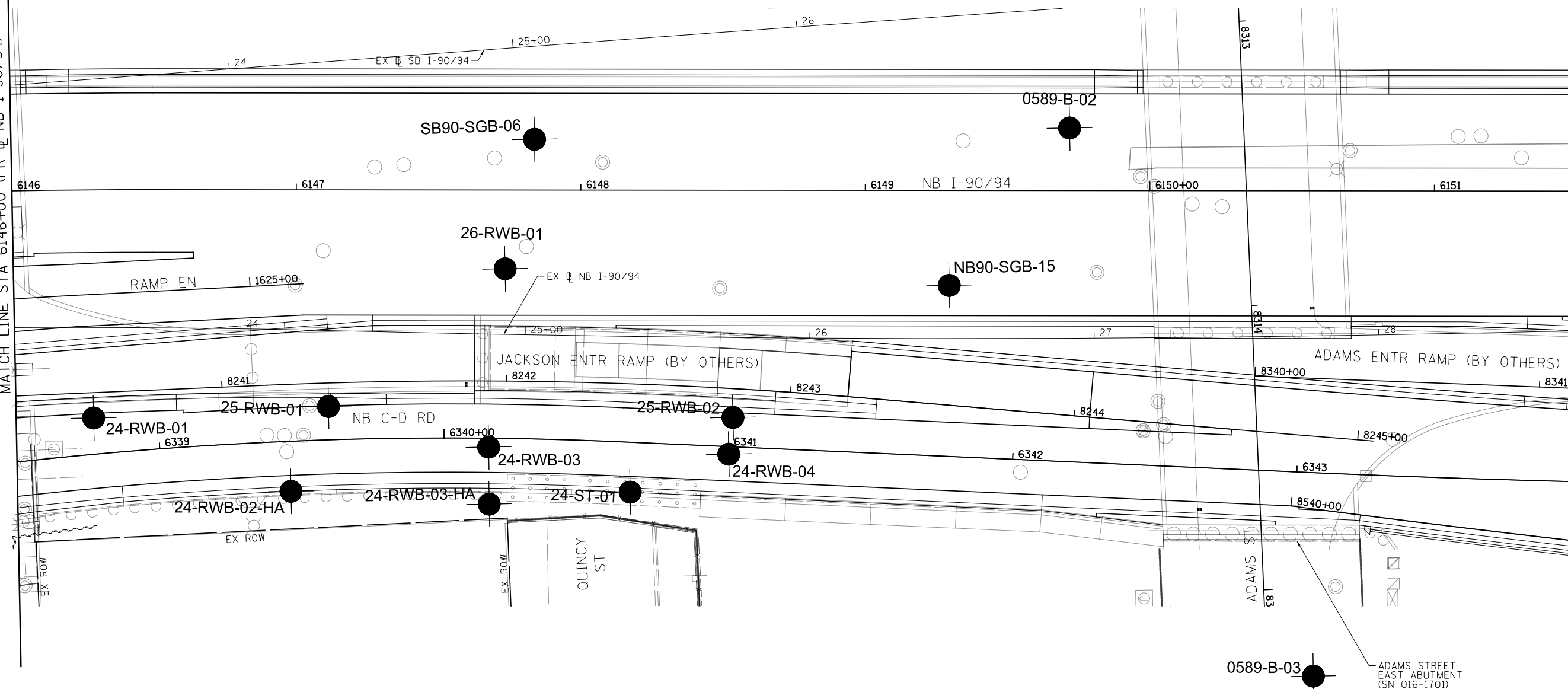
F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS $\$TOT$	SHEET NO. $\$PLN-09$
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



SB90-SGB-05

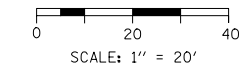
SEE SHEET NO. PLN-09
MATCH LINE STA 6146+00 (PR NB I-90/94)

MATCH LINE STA 6151+50 (PR NB I-90/94)
SEE SHEET NO. PLN-11



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. JNT-01 JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. ATB-01 ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = \$FILE\$



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PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

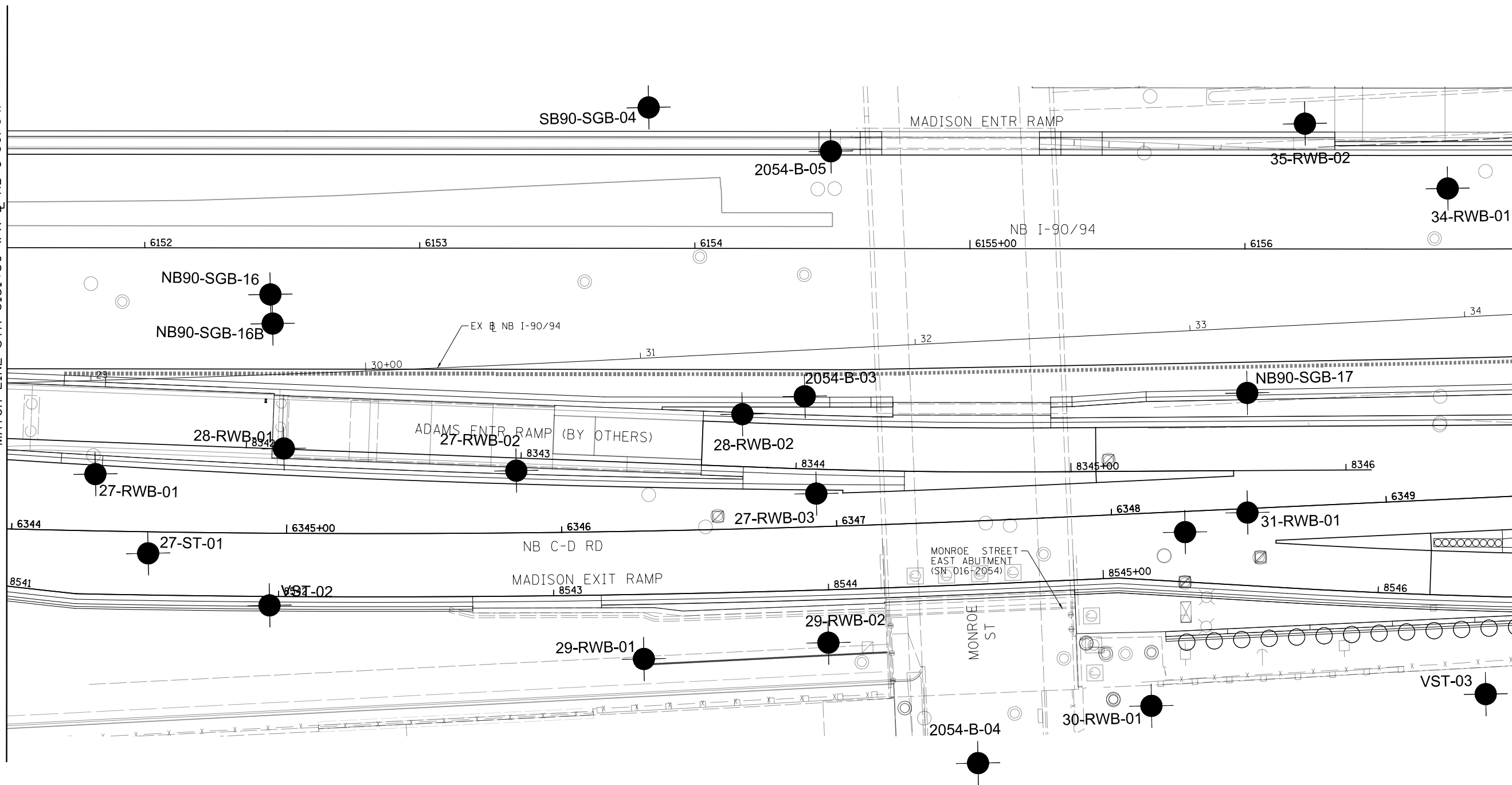
SCALE: 1"=20' SHEET \$PLN-10 OF \$PLN-TOTSHEETS STA. 6146+00 TO STA. 6151+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PLN-10
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	



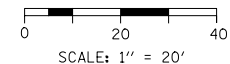
SEE SHEET NO. PLN-10
MATCH LINE STA 6151+50 (PR & NB I-90/94)

MATCH LINE STA 6157+00 (PR & NB I-90/94)
SEE SHEET NO. PLN-12



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. #JNT#01#JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. #ATB#01#ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR & NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = #FILE#



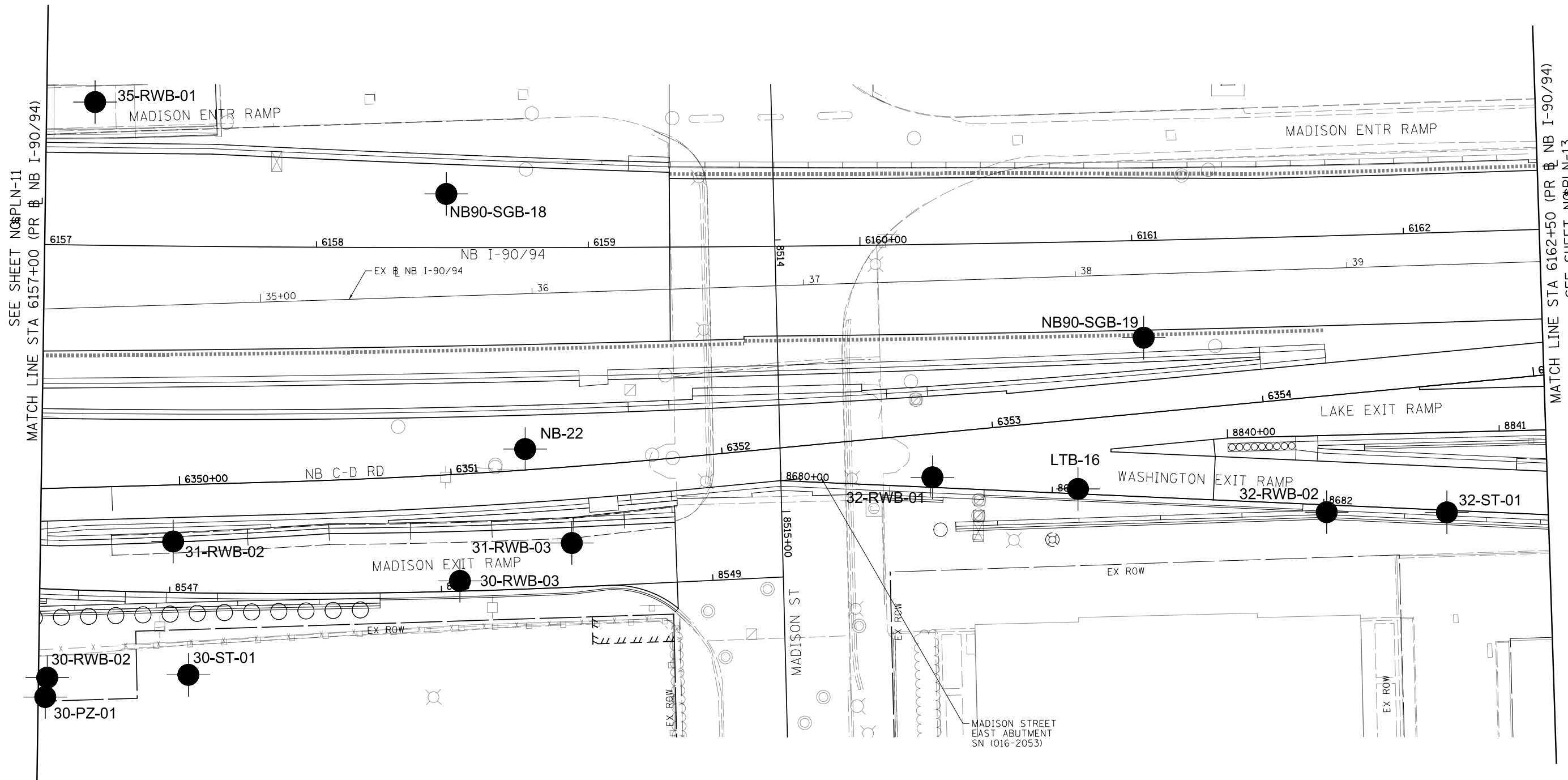
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PLOT DATE = #DATE#	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

SCALE: 1"=20' SHEET #PLN-11 OF PLN-TOTSHEETS STA. 6151+50 TO STA. 6157+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	#TOT	#PLN-11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

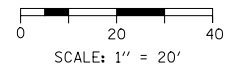


SEE SHEET NO. ~~PLN-11~~
MATCH LINE STA 6157+00 (PR ~~PLN-11~~ NB I-90/94)

MATCH LINE STA 6162+50 (PR ~~PLN-13~~ NB I-90/94)
SEE SHEET NO. ~~PLN-13~~

NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. ~~JNT-01~~ ~~JNT-18~~
2. SEE ALIGNMENT AND TIES SHEETS NO. ~~ATB-01~~ ~~ATB-16~~ FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ~~PLN-11~~ NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = \$FILE\$



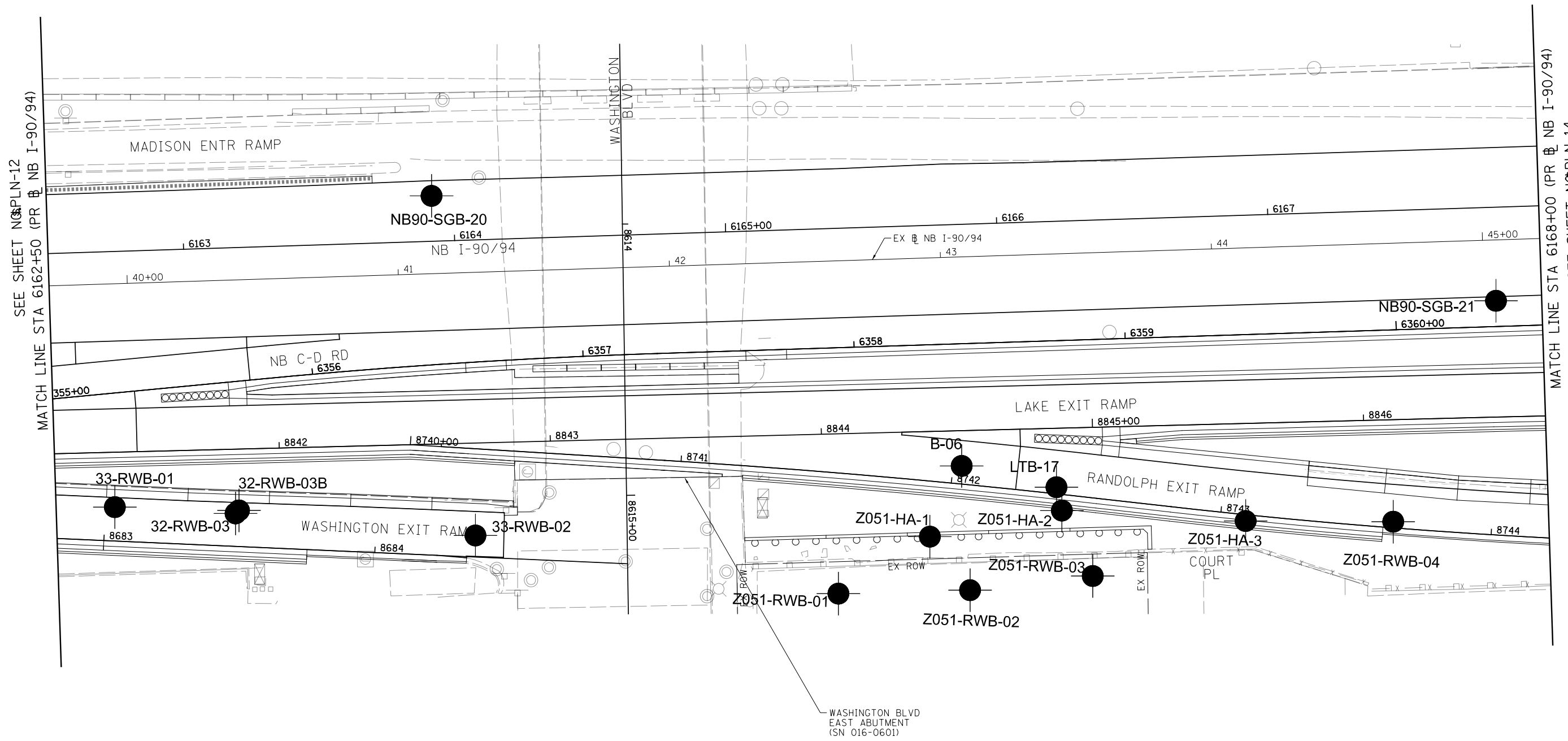
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PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-9094**

SCALE: 1"=20' SHEET \$PLN-12 OF \$PLN-TOTSHEETS STA. 6157+00 TO STA. 6162+50

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS \$TOT	SHEET NO. \$PLN-12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

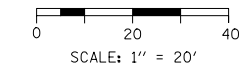


SEE SHEET NO. **PLN-12**
MATCH LINE STA 6162+50 (PR **NB I-90/94**)

MATCH LINE STA 6168+00 (PR **NB I-90/94**)
SEE SHEET NO. **PLN-14**

NOTES:

- SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. **JNT-01** **JNT-18**
- SEE ALIGNMENT AND TIES SHEETS NO. **ATB-01** **ATB-16** FOR CURVE DATA.
- ALL STATIONS AND OFFSETS ARE MEASURED FROM PR **NB I-90/94** UNLESS OTHERWISE NOTED.



FILE PATH = **FILEL**



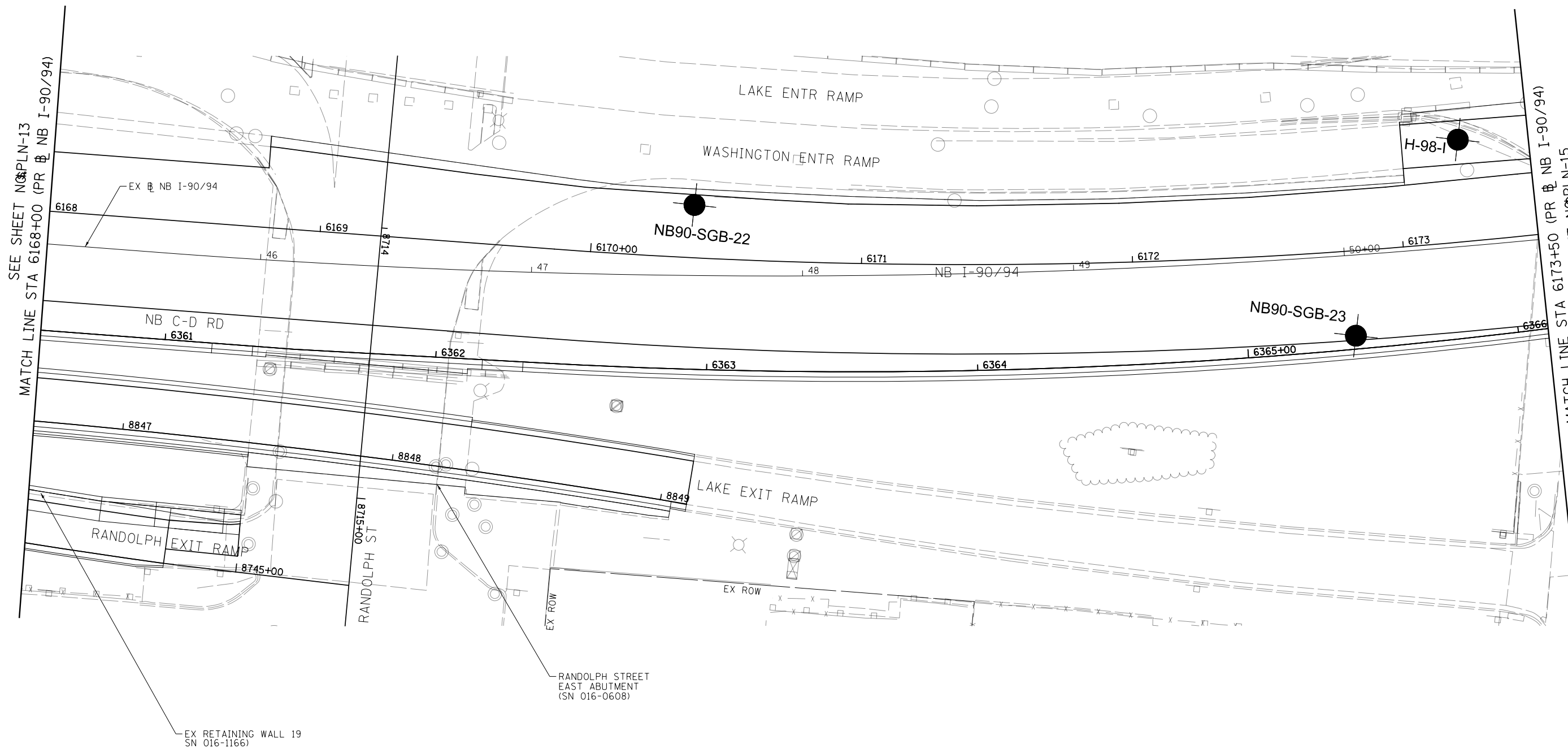
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PLOT SCALE = SCALE*	CHECKED - PLN-10-CH	REVISED -
PLOT DATE = DATE*	DATE - DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' SHEET **PLN-13** OF **PLN-TOTSHEETS** STA. 6162+50 TO STA. 6168+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	#TOT	#PLN-13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

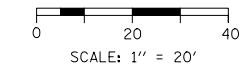


SEE SHEET NO. **PLN-13**
MATCH LINE STA 6168+00 (PR **I-90/94**)

MATCH LINE STA 6173+50 (PR **I-90/94**)
SEE SHEET NO. **PLN-15**

NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. **JNT-01** **JNT-18**
2. SEE ALIGNMENT AND TIES SHEETS NO. **ATB-01** **ATB-16** FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR **I-90/94** UNLESS OTHERWISE NOTED.



FILE PATH = \$FILE\$



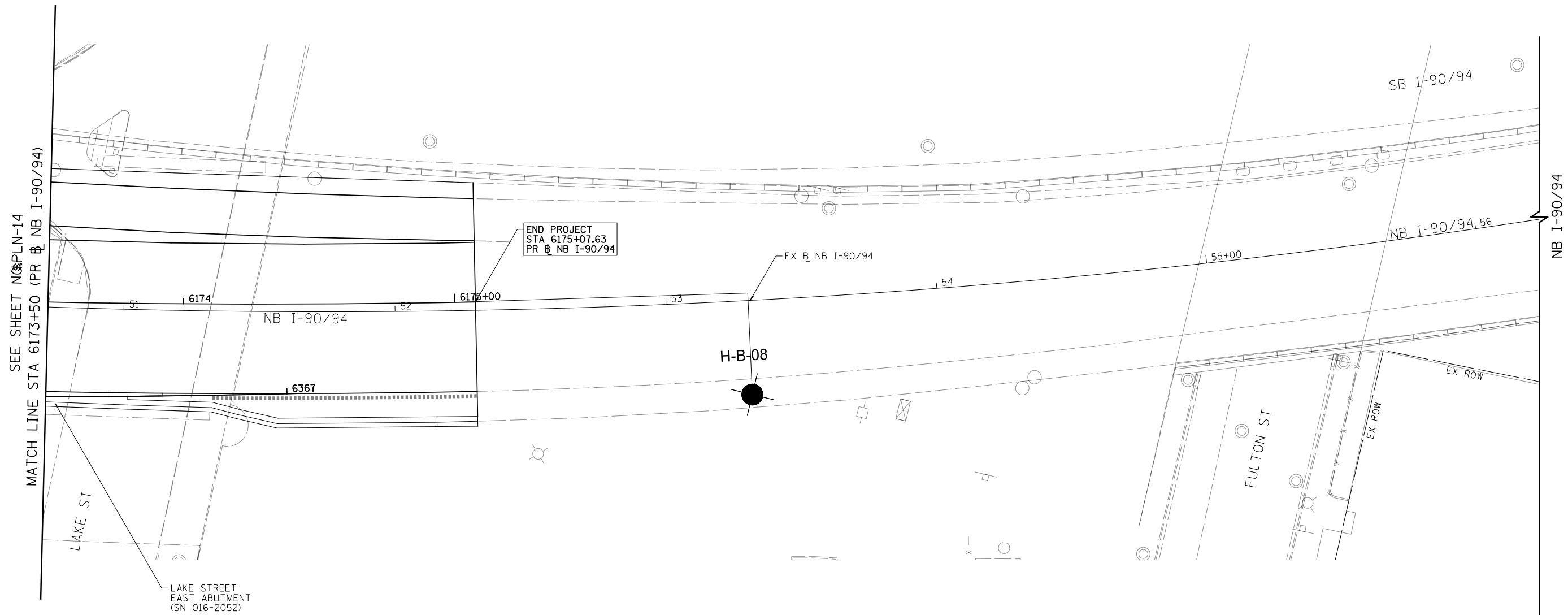
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PLOT SCALE = \$SCALE*	CHECKED - #PLN-10-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-9094

SCALE: 1"=20' SHEET # **PLN-14** OF **PLN-TOTSHEETS** STA. 6168+00 TO STA. 6173+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	#PLN-14
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				



SEE SHEET NO. PLN-14
MATCH LINE STA 6173+50 (PR NB I-90/94)

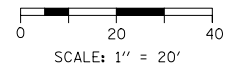
END PROJECT
STA 6175+07.63
PR NB I-90/94

H-B-08

LAKE STREET
EAST ABUTMENT
(SN 016-2052)

NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. JNT-01/JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. ATB-01/ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR NB I-90/94 UNLESS OTHERWISE NOTED.



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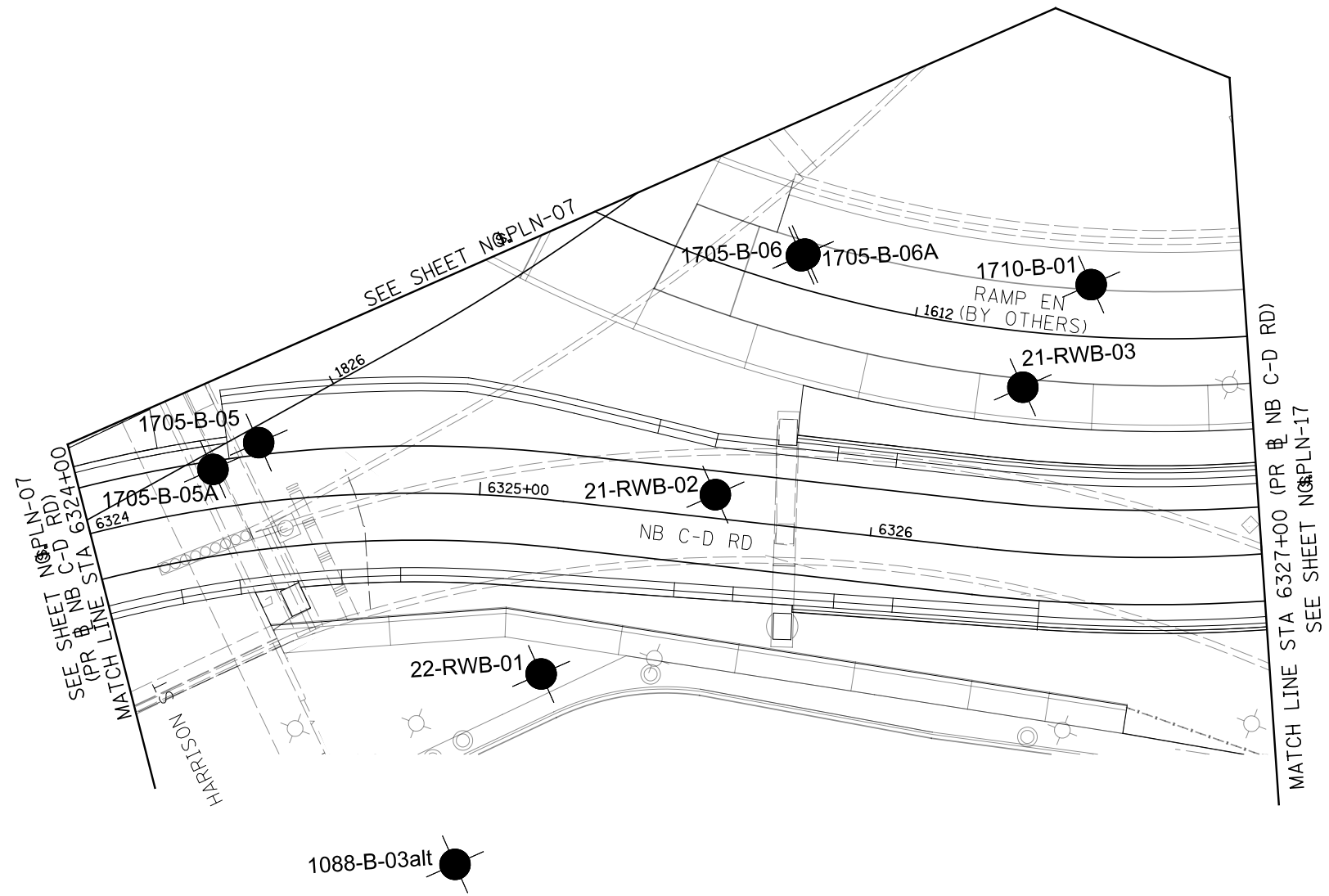
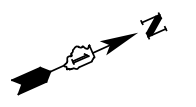
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PLOT SCALE = \$SCALE*	CHECKED - #PLN-10-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

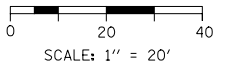
SCALE: 1"=20' SHEET # \$PLN-15 OF \$PLN-TOTSHEETS STA. 6173+50 TO STA. 6175+00

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS \$TOT	SHEET NO. \$PLN-15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. ~~PLN-16~~JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. ~~ATB-16~~ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR ~~I-90/94~~ NB I-90/94 UNLESS OTHERWISE NOTED.



FILE PATH = \$FILE\$



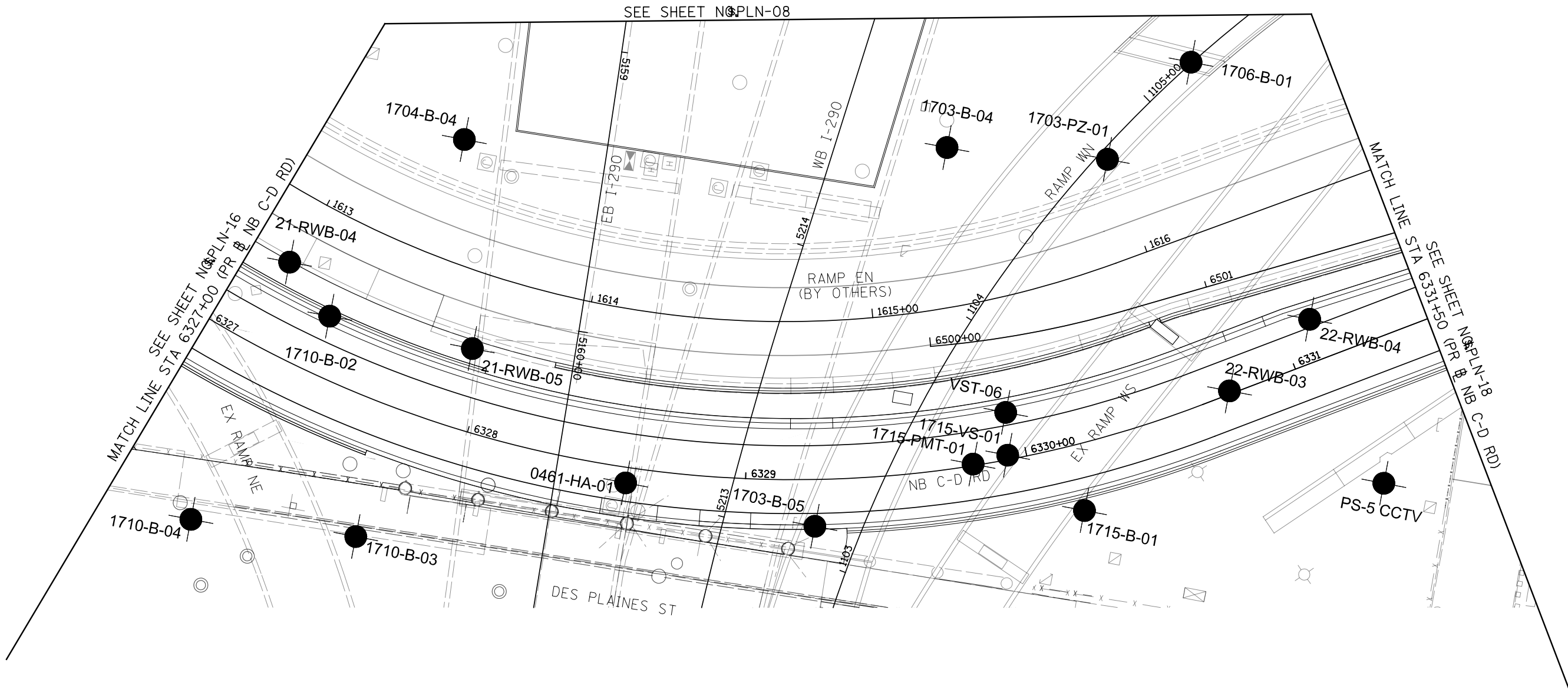
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PLOT SCALE = \$SCALE*	CHECKED - \$PLN-10-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

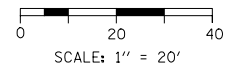
**ROADWAY PLAN
NB C-D ROAD**

SCALE: 1"=20' SHEET \$PLN-16 OF \$PLN-TOTSHEETS STA. 6324+00 TO STA. 6327+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PLN-16
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	



- NOTES:**
1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. ~~JNT-01~~JNT-18
 2. SEE ALIGNMENT AND TIES SHEETS NO. ~~ATB-04~~ATB-16 FOR CURVE DATA.
 3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR & NB I-90/94 UNLESS OTHERWISE NOTED.
 4. SEE SHEET NO. ~~PLN-09~~ MAINTENANCE LOT DETAILS



FILE PATH = \$FILE\$



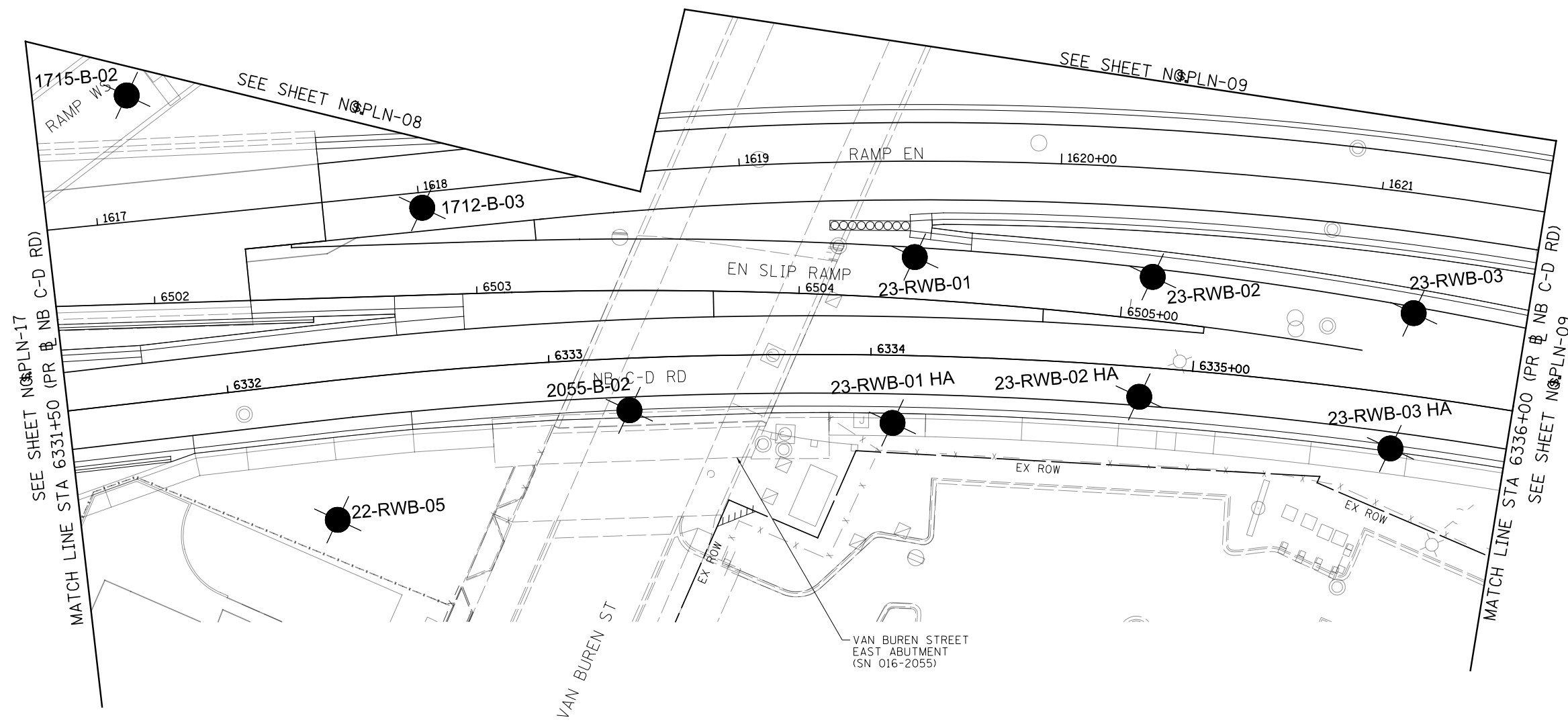
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PLOT SCALE = \$SCALE*	CHECKED - \$PLN-10-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
NB C-D ROAD**

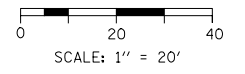
SCALE: 1"=20' SHEET \$PLN-17 OF \$PLN-TOTSHEETS STA. 6327+00 TO STA. 6331+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PLN-17
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE JOINTING AND SUPERELEVATION PLAN DETAIL SHEETS FOR GEOMETRIC INFORMATION, SHEET NO. ~~JNT-01~~JNT-18
2. SEE ALIGNMENT AND TIES SHEETS NO. ~~ATB-04~~ATB-16 FOR CURVE DATA.
3. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR NB I-90/94 UNLESS OTHERWISE NOTED.



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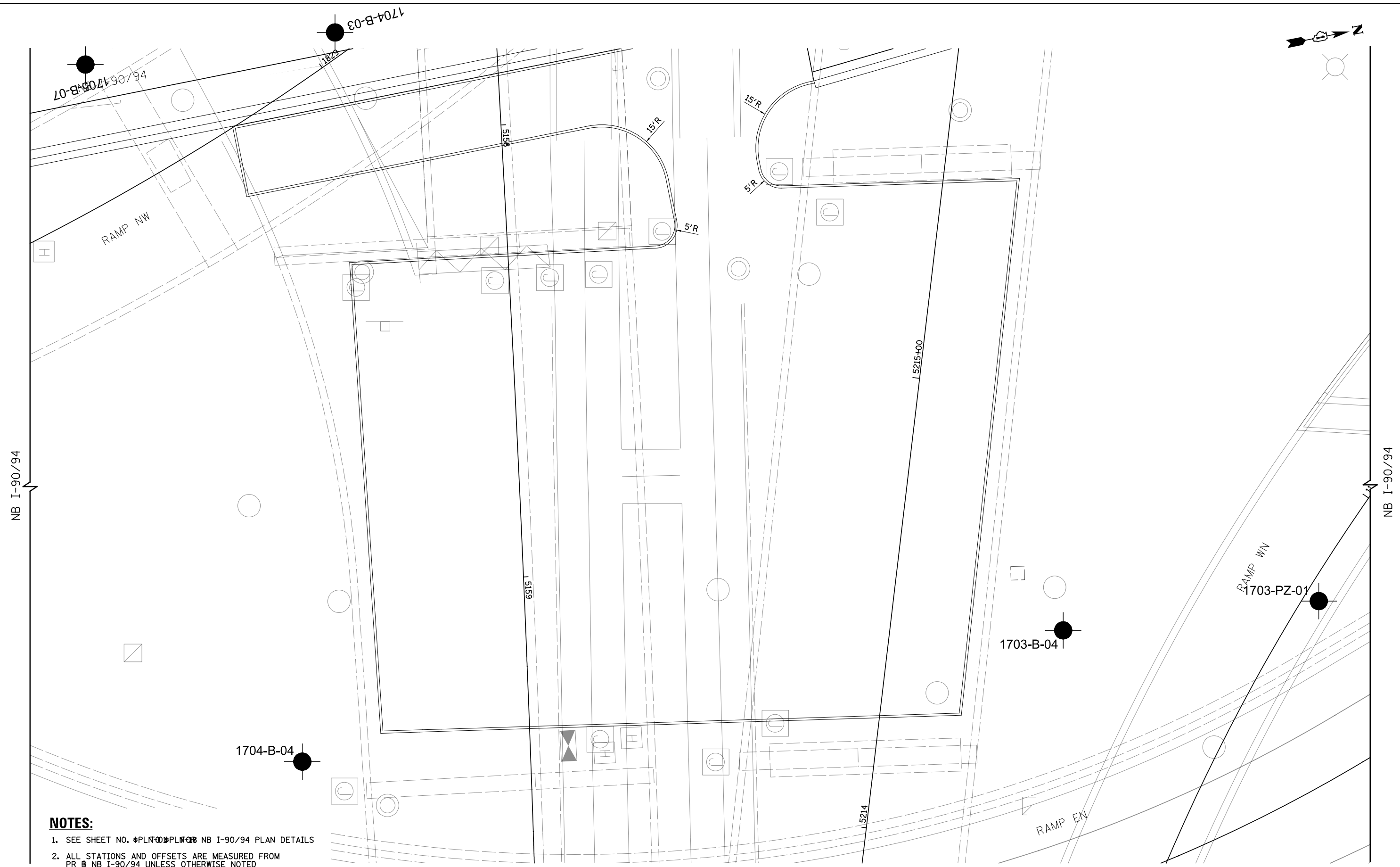
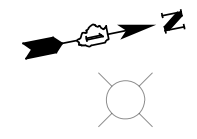
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PLOT SCALE = \$SCALE*	CHECKED - \$PLN-10-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
NB C-D ROAD**

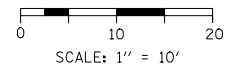
SCALE: 1"=20' SHEET \$PLN-18 OF \$PLN-TOTSHEETS STA. 6331+50 TO STA. 6336+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PLN-18
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	



NOTES:

1. SEE SHEET NO. #PLN-01#PLN-02 NB I-90/94 PLAN DETAILS
2. ALL STATIONS AND OFFSETS ARE MEASURED FROM PR @ NB I-90/94 UNLESS OTHERWISE NOTED



FILE PATH = #FILE#



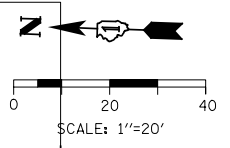
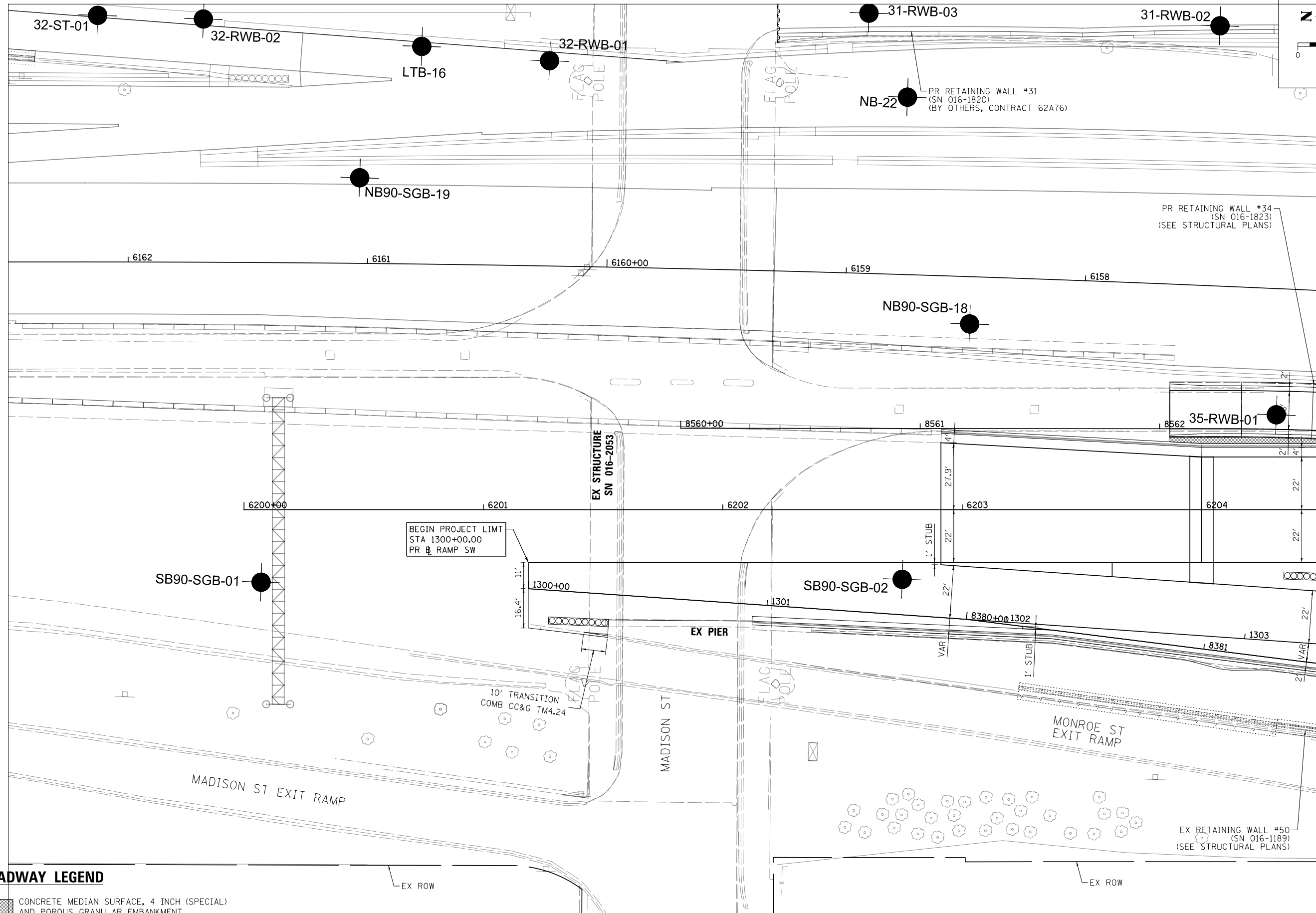
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PLOT SCALE = #SCALE*	CHECKED - #PLN-19-CH	REVISED -
PLOT DATE = #DATE*	DATE - #DATE	REVISED -

DESIGNED - #PLN-19-DE	REVISED -
DRAWN - #PLN-19-DR	REVISED -
CHECKED - #PLN-19-CH	REVISED -
DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN I-90/94 MAINTENANCE LOT	
SCALE: 1"=10'	SHEET #PLN-19 @PLN-TOTSHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS #TOT	SHEET NO. #PLN-19
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6204+50.00 (PR SB I-90/94) SEE SHEET #PLN02

ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT
 — EX ROW

BEGIN PROJECT LIMIT
STA 1300+00.00
PR RAMP SW

10' TRANSITION
COMB CC&G TM4.24



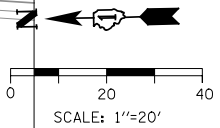
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PLOT SCALE = \$SCALE*	CHECKED - MJJ	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
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**ROADWAY PLAN
SB I-90/94**

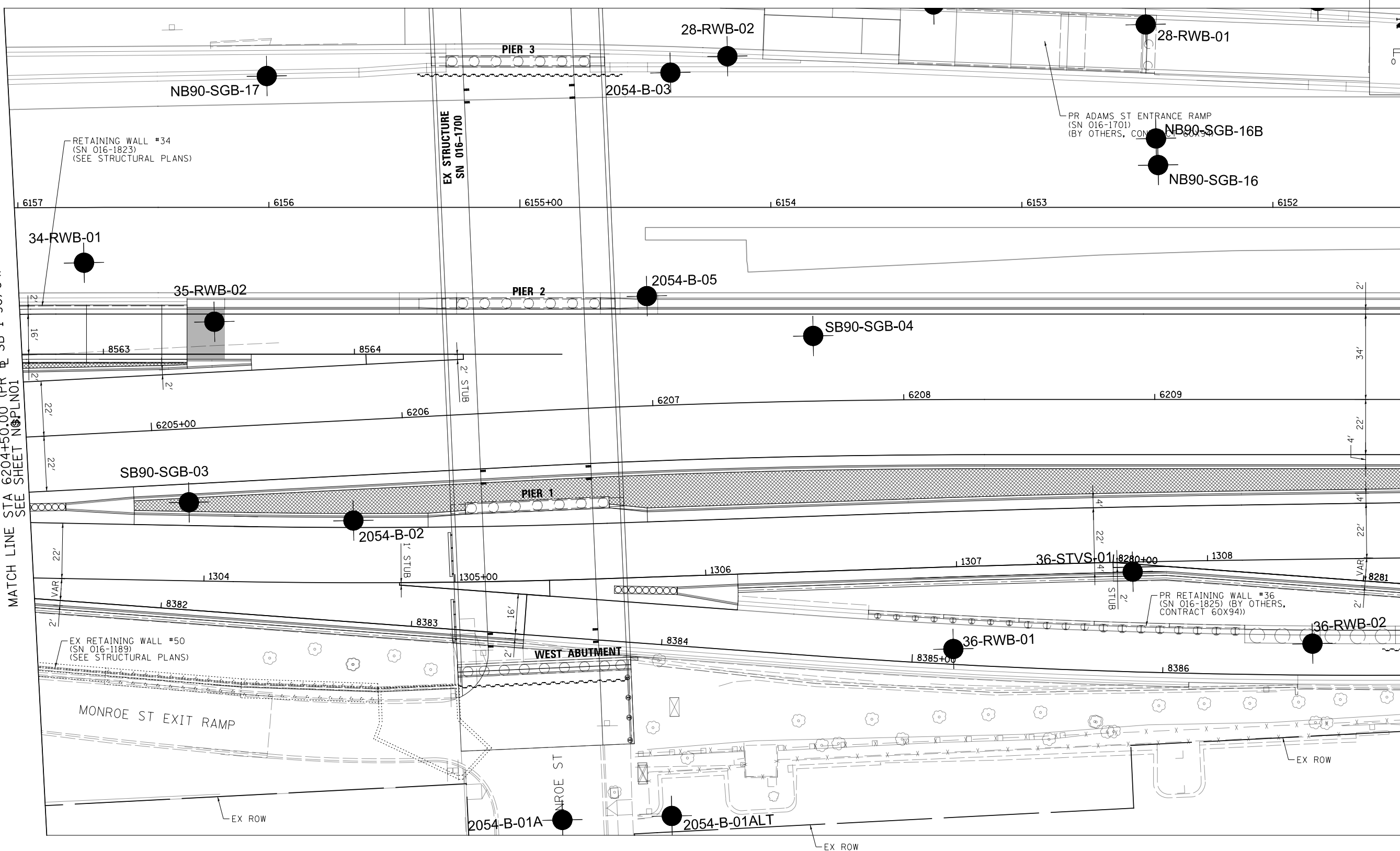
SCALE: 1"=20' SHEET 1 OF #PLNGHEETS STA. 6202+91.11 TO STA. 6204+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	#TOTAL	#PLN01
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6204+50.00 (PR SB I-90/94) SEE SHEET N0PLN01

MATCH LINE STA 6210+00.00 (PR SB I-90/94) SEE SHEET N0PLN03



ROADWAY LEGEND

	CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT
--	--------------------------------------------------------------------------

FILE PATH = \$FILEL\$



#FILES*	DESIGNED - OPS	REVISED -
USER NAME = \$USER*	DRAWN - ZND	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - MJE	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

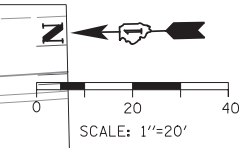
DESIGNED - OPS	REVISED -
DRAWN - ZND	REVISED -
CHECKED - MJE	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
SB I-90/94**

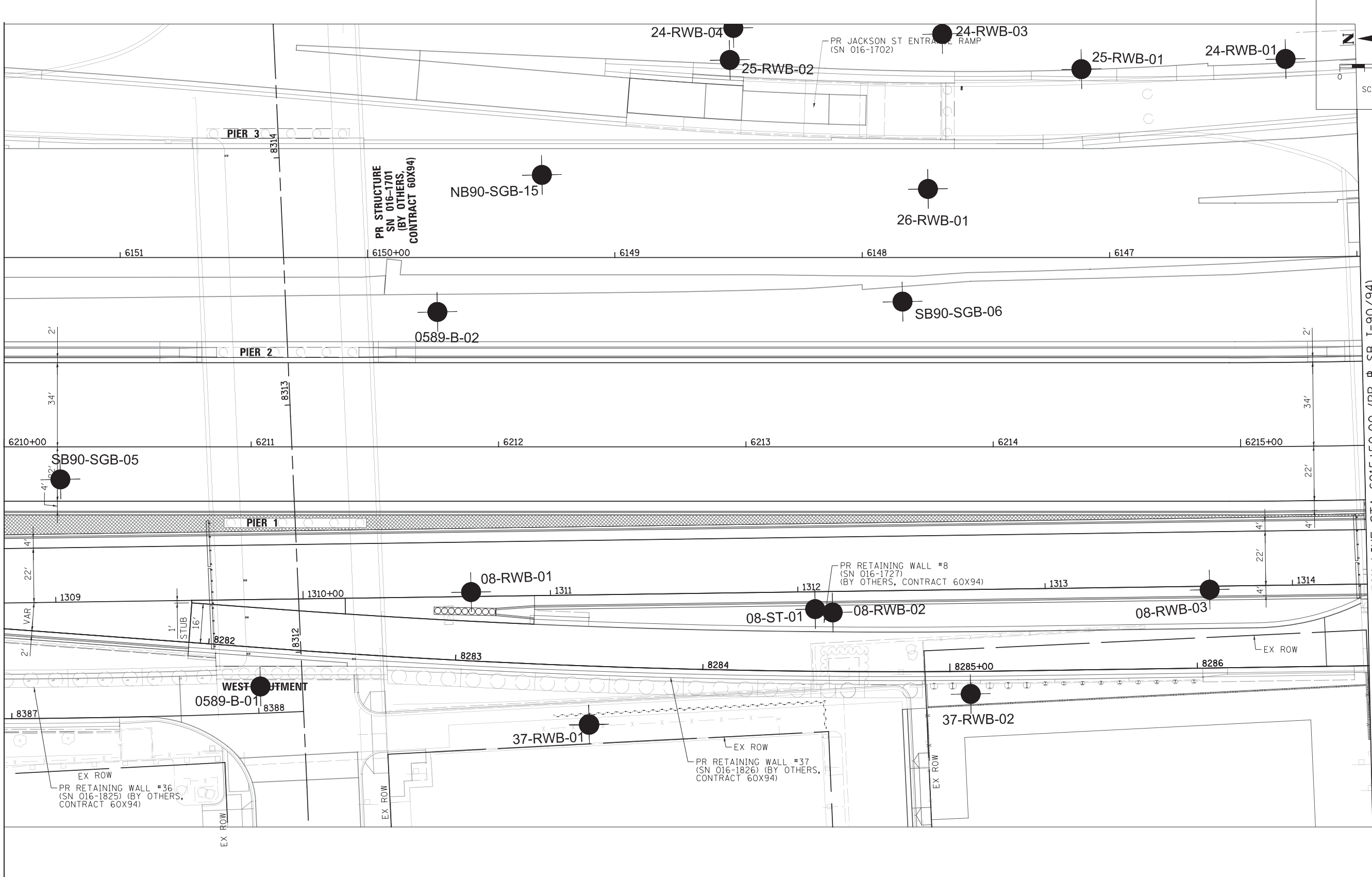
SCALE: 1"=20' SHEET 2 OF \$PLNGHEETS STA. 6204+50.00 TO STA. 6210+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL\$	\$PLN02
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6210+00.00 (PR SB I-90/94) SEE SHEET N0PLN02

MATCH LINE STA 6215+50.00 (PR SB I-90/94) SEE SHEET N0PLN04



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = #FILE#



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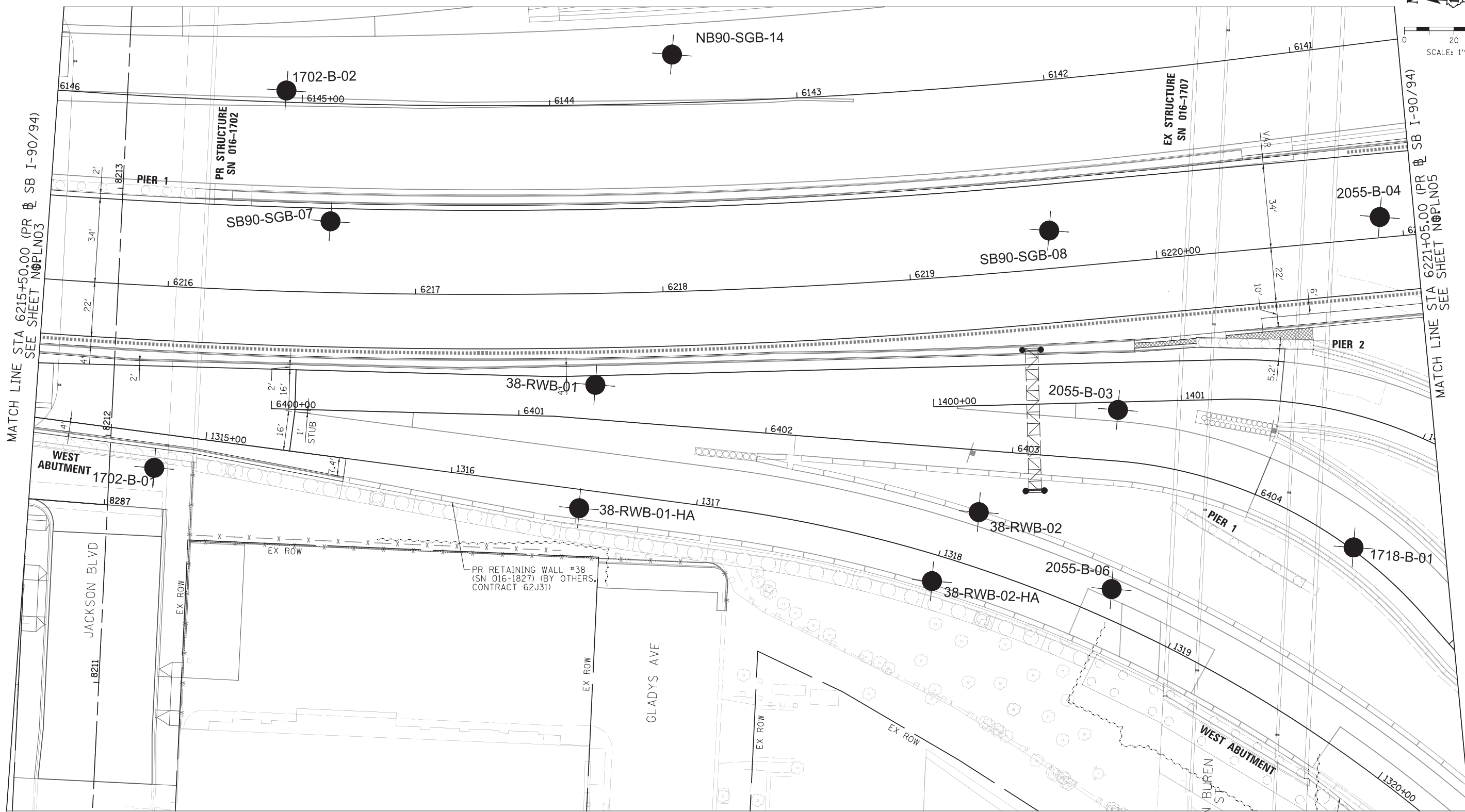
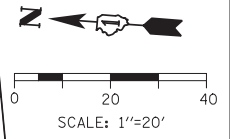
DESIGNED - OPS	REVISED -
DRAWN - ZND	REVISED -
CHECKED - MJE	REVISED -
DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
SB I-90/94**

SCALE: 1"=20' SHEET 3 OF #PLNGHEETS STA. 6210+00.00 TO STA. 6215+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	#TOTAL	#PLN03
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6215+50.00 (PR SB I-90/94) SEE SHEET N0PLN03

MATCH LINE STA 6221+05.00 (PR SB I-90/94) SEE SHEET N0PLN05

ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

EX RETAINING WALL #39 (SN 016-1808) (BY OTHERS, CONTRACT 60X99)

FILE PATH = #FILE#



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PLOT DATE = \$DATE#	DATE - \$DATE	REVISED -

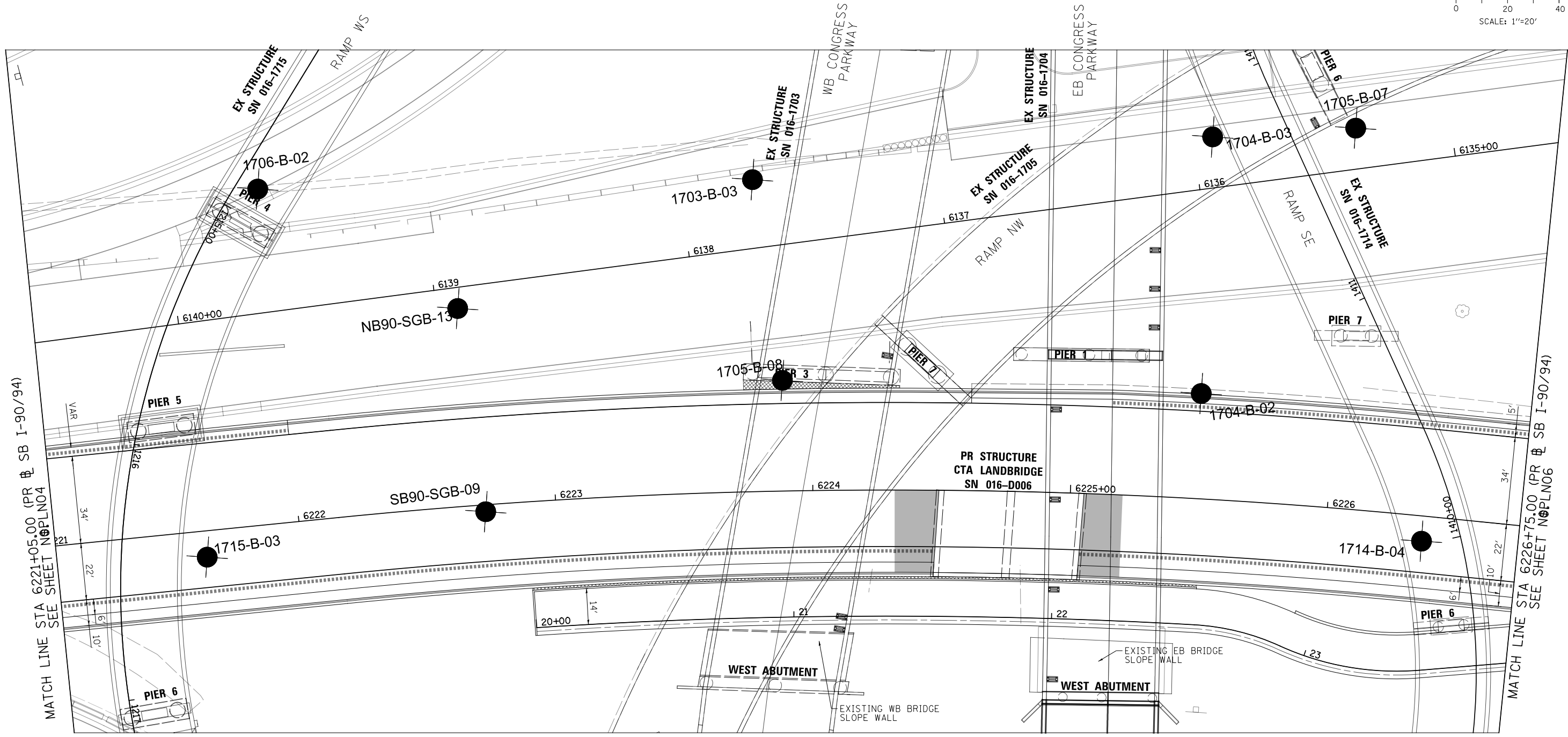
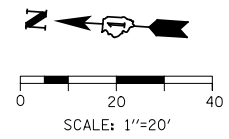
DESIGNED - OPS	REVISED -
DRAWN - ZND	REVISED -
CHECKED - MJE	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
SB I-90/94**

SCALE: 1"=20' SHEET 4 OF #PLNGHEETS STA. 6215+50.00 TO STA. 6221+05.00

F.A.I. RTE. 90/94/290	SECTION 2015-018R	COUNTY COOK	TOTAL SHEETS #TOTAL#PLN04	SHEET NO. #PLN05
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A77	



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = \$FILEL\$



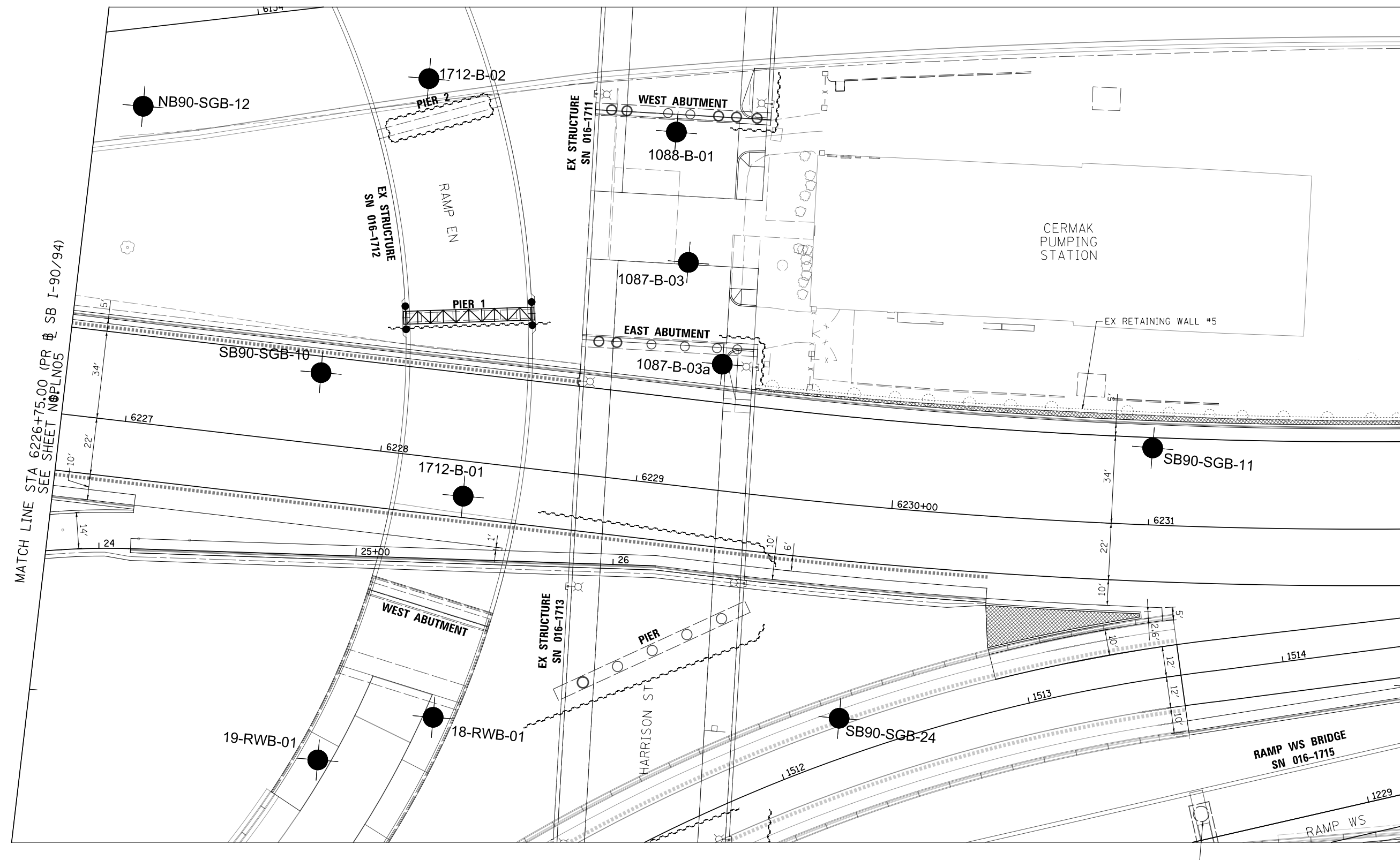
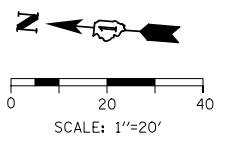
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PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
SB I-90/94**

SCALE: 1"=20' SHEET 5 OF \$PLNG\$ SHEETS STA. 6221+05.00 TO STA. 6226+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL\$	\$PLN05
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6226+75.00 (PR @ SB I-90/94)
SEE SHEET #PLN05

MATCH LINE STA 6232+00.00 (PR @ SB I-90/94)
SEE SHEET #PLN07

ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = \$FILE\$



#FILES*	DESIGNED - OPS	REVISED -
USER NAME = \$USER*	DRAWN - ZND	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - MJE	REVISED -
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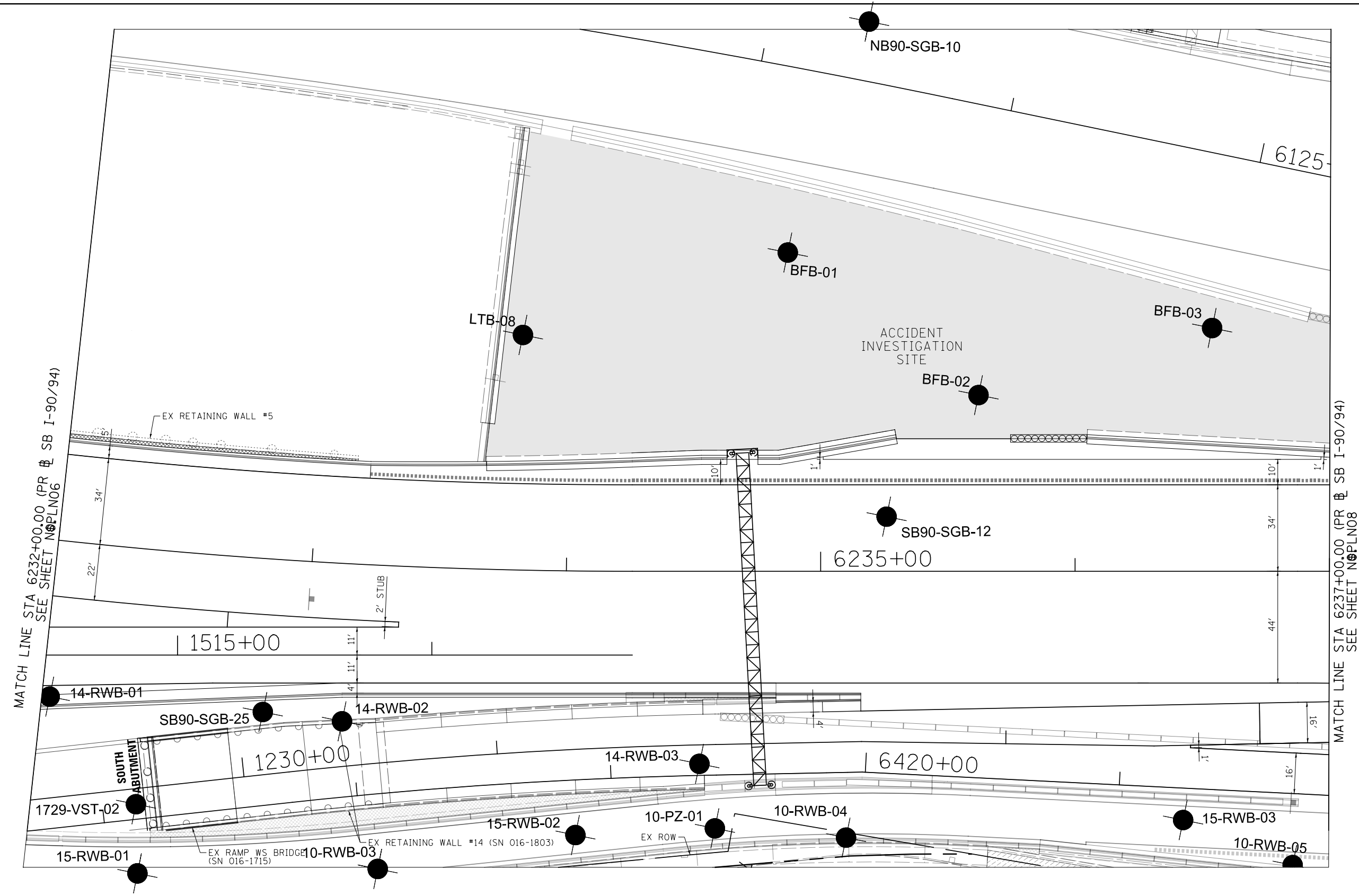
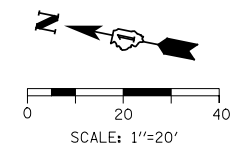
DESIGNED - OPS	REVISED -
DRAWN - ZND	REVISED -
CHECKED - MJE	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
SB I-90/94**

SCALE: 1"=20' SHEET 6 OF #PLNGHEETS STA. 6226+75.00 TO STA. 6232+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	#TOTAL#	#PLN06
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = \$FILE\$



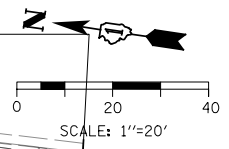
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PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
SB I-90/94**

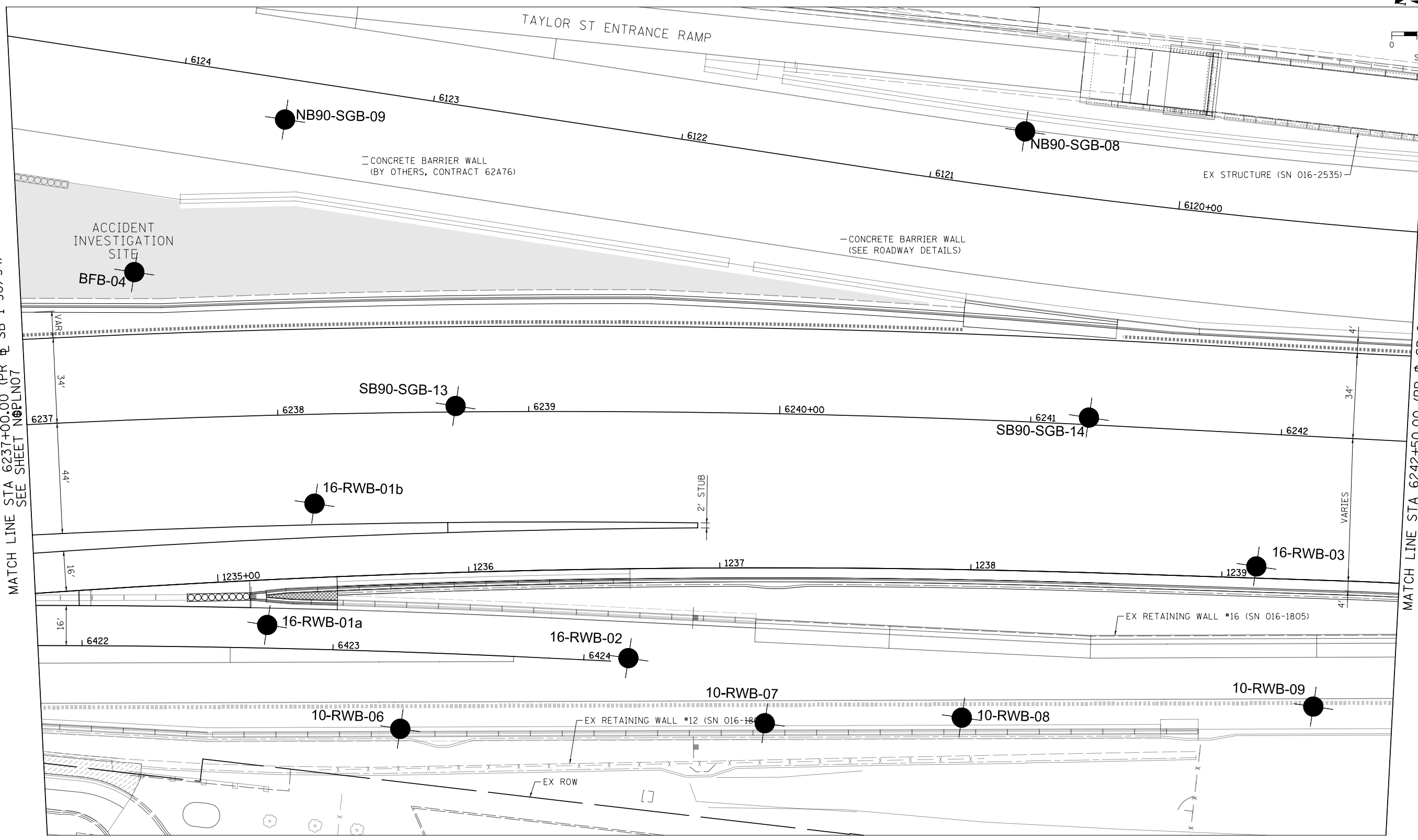
SCALE: 1"=20' SHEET 7 OF \$PLNGHEETS STA. 6232+00.00 TO STA. 6237+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL	\$PLN07
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6237+00.00 (PR & SB I-90/94)
SEE SHEET #PLN07

MATCH LINE STA 6242+50.00 (PR & SB I-90/94)
SEE SHEET #PLN09



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = #FILE#

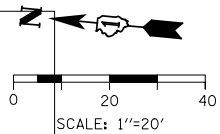


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PLOT DATE = #DATE#	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

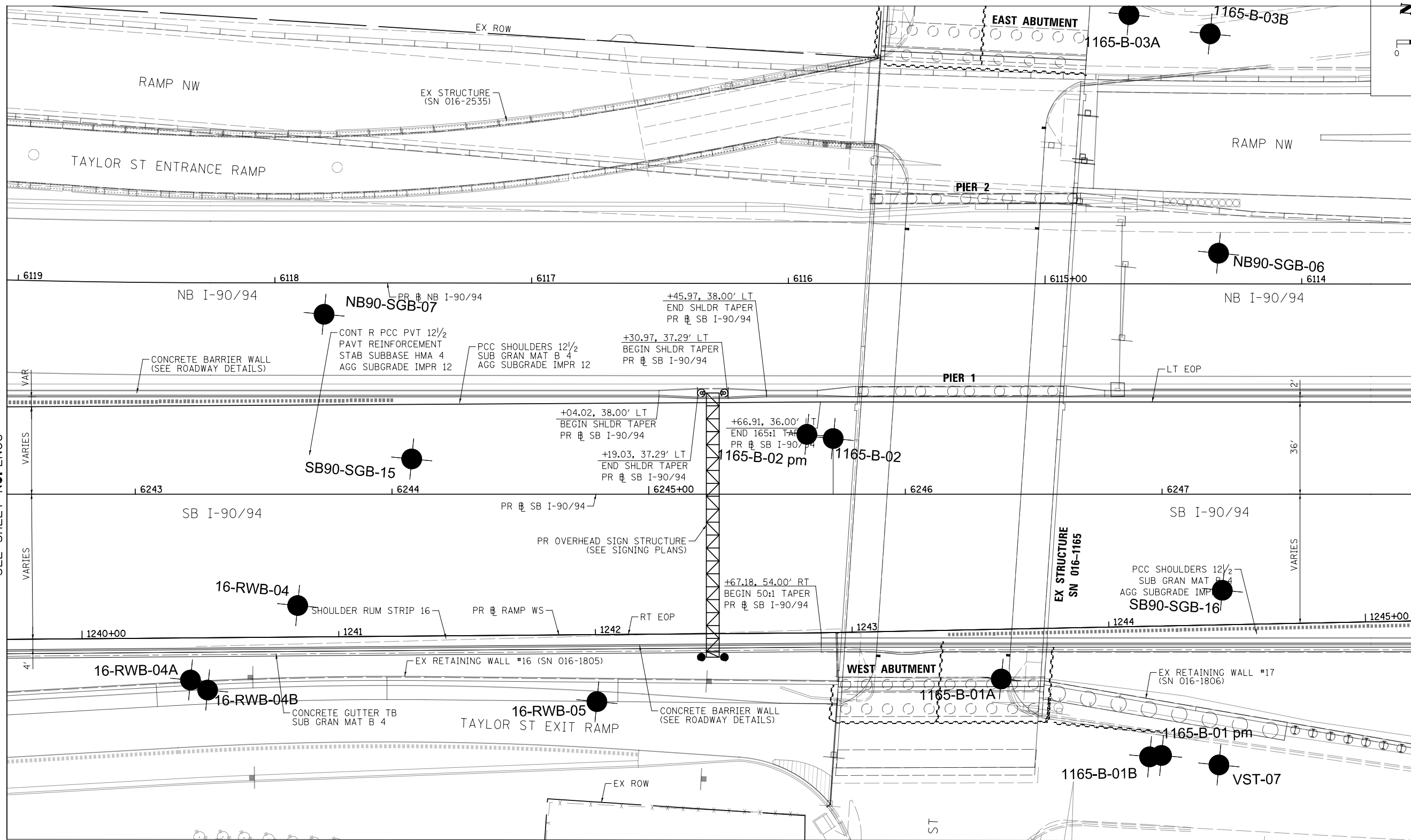
ROADWAY PLAN SB I-90/94		
SCALE: 1"=20'	SHEET 8 OF #PLNGSHEETS	STA. 6237+00.00 TO STA. 6242+50.00

F.A.I. RTE. 90/94/290	SECTION 2015-018R	COUNTY COOK	TOTAL SHEETS #TOTAL#PLN08	SHEET NO. CONTRACT NO. 62A77
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6242+50.00 (PR # SB I-90/94) SEE SHEET #PLN08

MATCH LINE STA 6248+00.00 (PR # SB I-90/94) SEE SHEET #PLN10



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = #FILE#



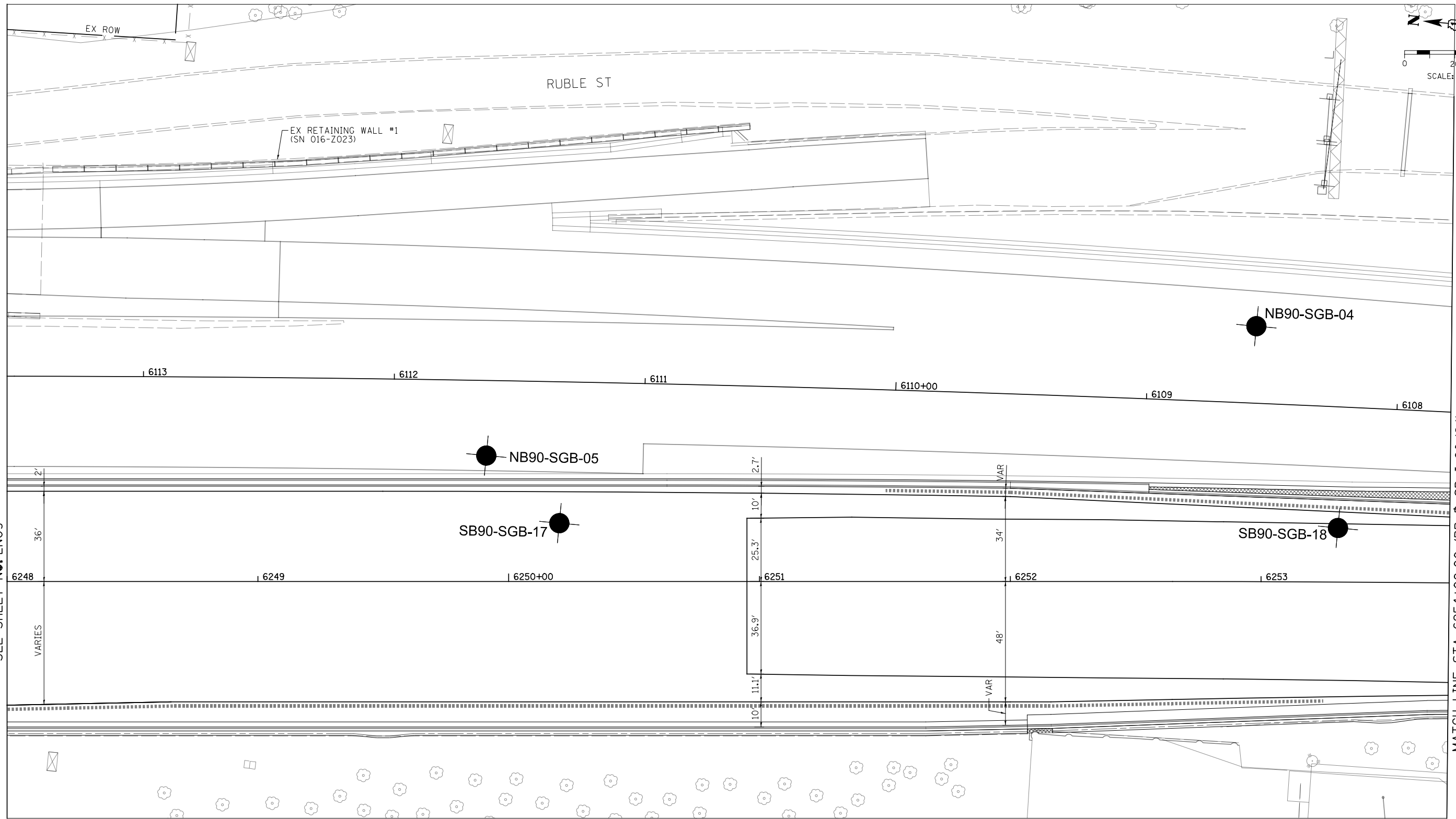
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PLOT SCALE = #SCALE#	CHECKED - MJE	REVISED -
PLOT DATE = #DATE#	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
SB I-90/94**

SCALE: 1"=20' SHEET 9 OF #PLNSHEETS STA. 6242+50.00 TO STA. 6248+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	#TOTAL#	#PLN09
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6248+00.00 (PR SB I-90/94) SEE SHEET N0PLN09

MATCH LINE STA 6254+00.00 (PR SB I-90/94) SEE SHEET N0PLN11

ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = \$FILE\$



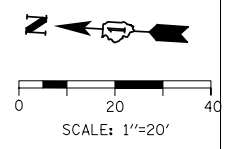
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PLOT SCALE = \$SCALE*	CHECKED - MJE	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

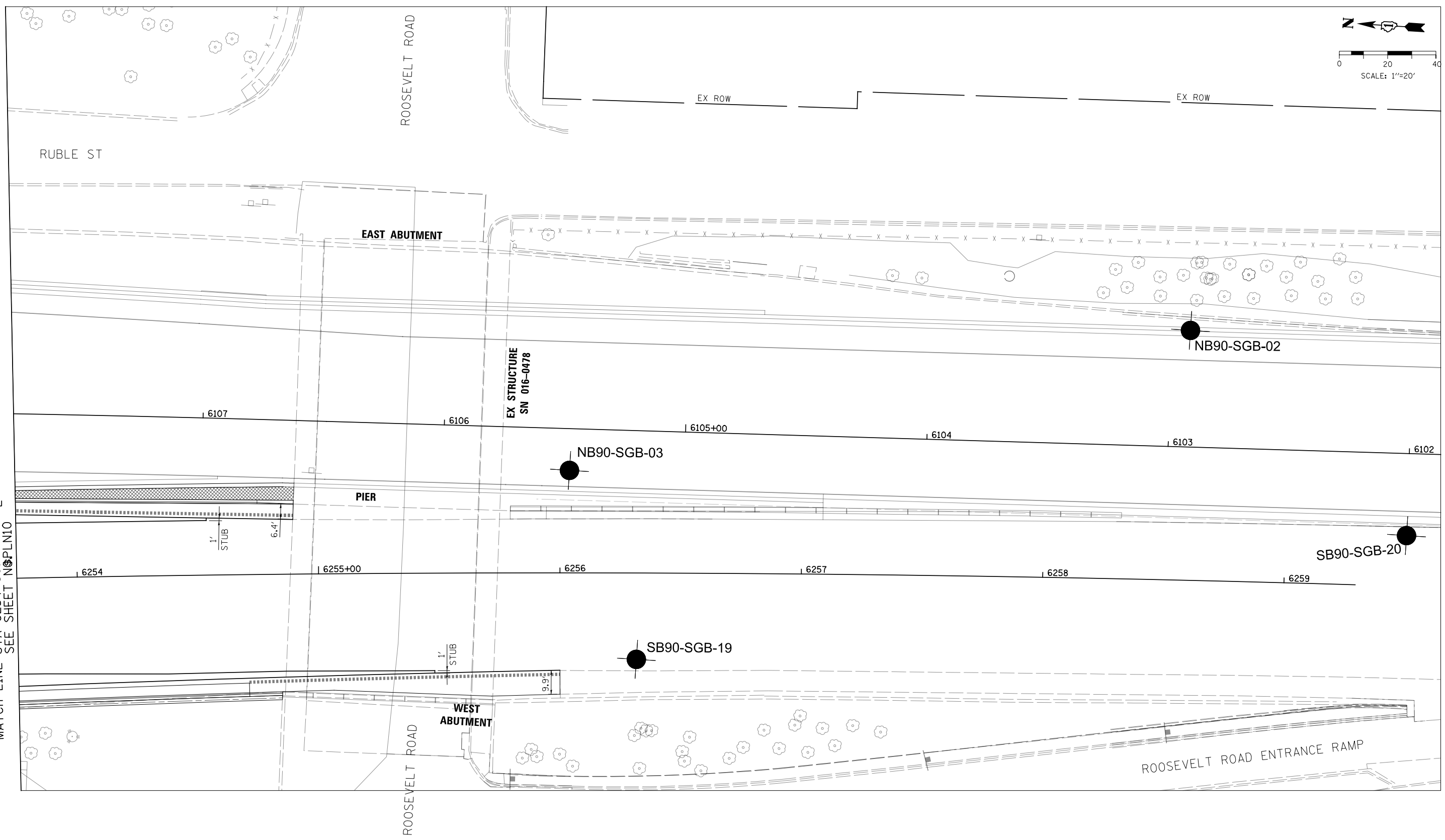
**ROADWAY PLAN
SB I-90/94**

SCALE: 1"=20' SHEET 10 OF \$PLNGHEETS STA. 6248+00.00 TO STA. 6254+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL	\$PLN10
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 6254+00.00 (PR & SB I-90/94)
SEE SHEET N0PLN10



ROADWAY LEGEND

CONCRETE MEDIAN SURFACE, 4 INCH (SPECIAL) AND POROUS GRANULAR EMBANKMENT

FILE PATH = \$FILEL\$



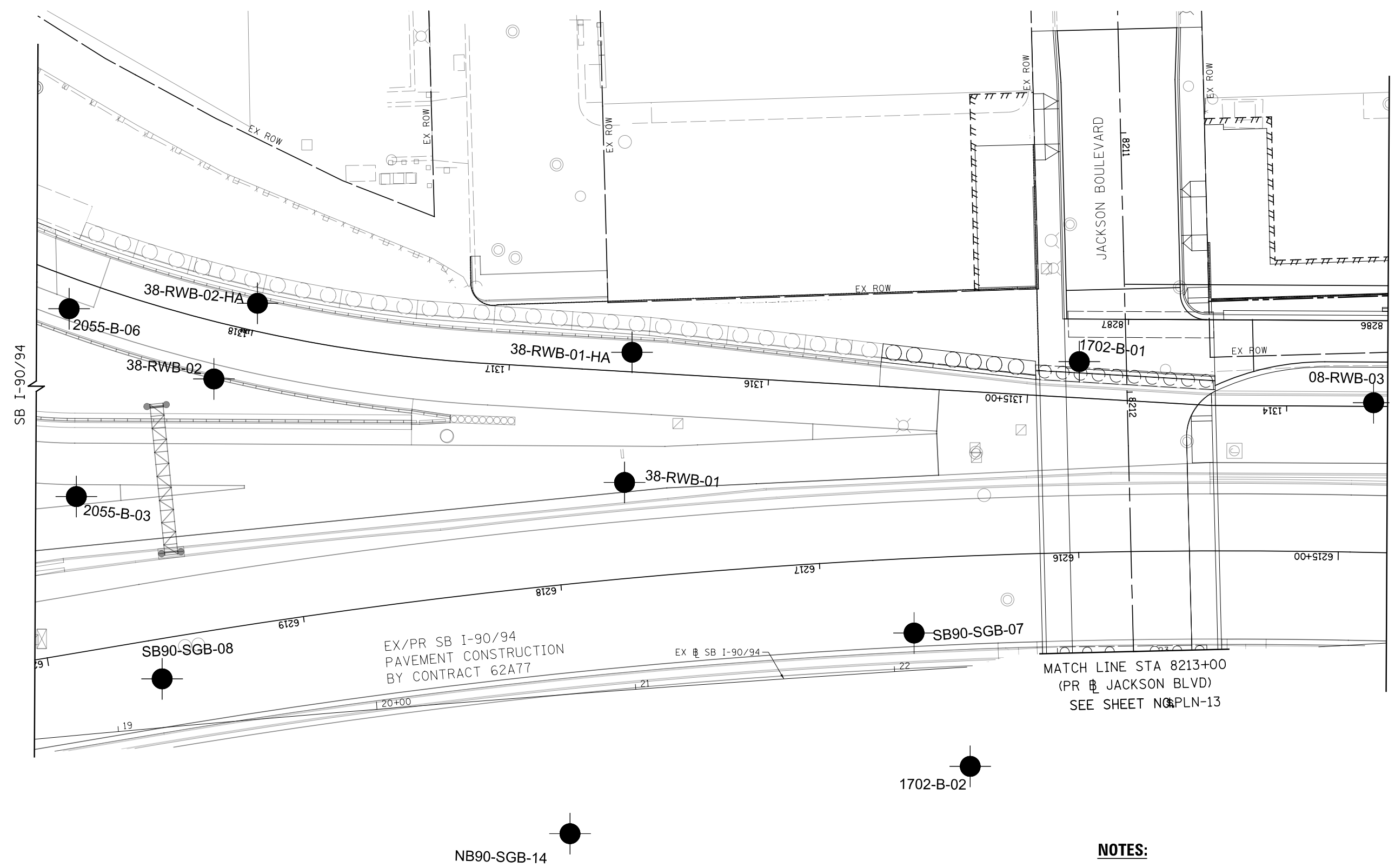
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PLOT SCALE = \$SCALE*	CHECKED - MJE	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
SB I-90/94**

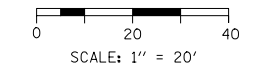
SCALE: 1"=20' SHEET 11 OF \$PLNGHEETS STA. 6254+00.00 TO STA. 6259+29.52

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL	\$PLN11
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				



NOTES:

- 1. SEE SHEETS #PLN-10 & #PLN-11 FOR JACKSON BOULEVARD ROADWAY PLAN.



FILE PATH = #FILE#



#FILES*	DESIGNED - #PLN-09-DE	REVISED -
USER NAME = #USER*	DRAWN - #PLN-09-DR	REVISED -
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PLOT DATE = #DATE*	DATE - #DATE	REVISED -

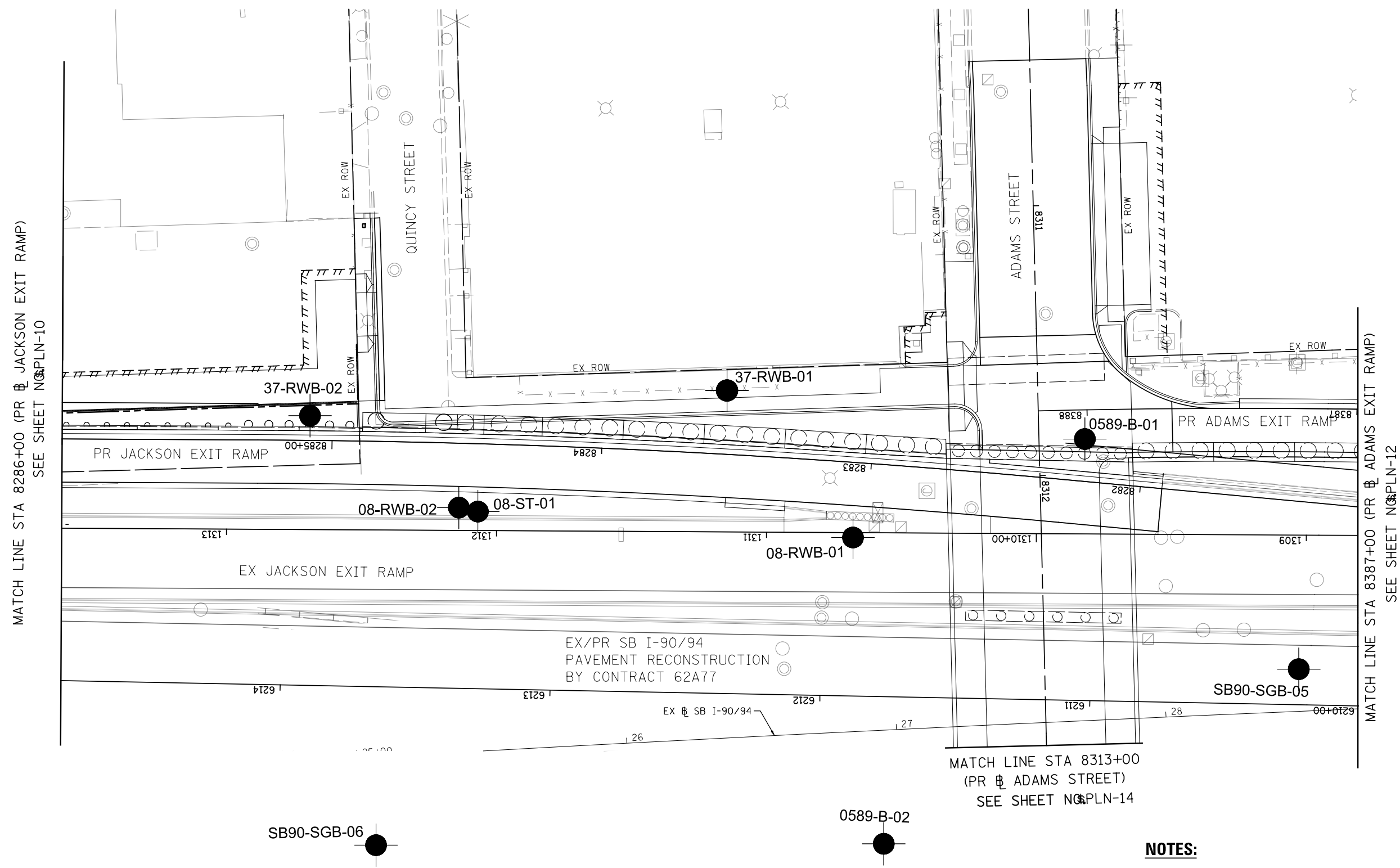
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

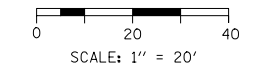
SCALE: 1"=20' SHEET #PLN-10F #PLN-10 SHEETS STA. 6120+00 TO STA. 8286+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	#TOT	#PLN-10
			CONTRACT NO. 60X94	

ILLINOIS FED. AID PROJECT



NOTES:
 1. SEE SHEETS #PLN-101 #PLN-102 ADAMS STREET ROADWAY PLAN.



FILE PATH = \$FILEL\$



#FILES*	DESIGNED - #PLN-10-DE	REVISED -
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PLOT SCALE = \$SCALE*	CHECKED - #PLN-10-CH	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

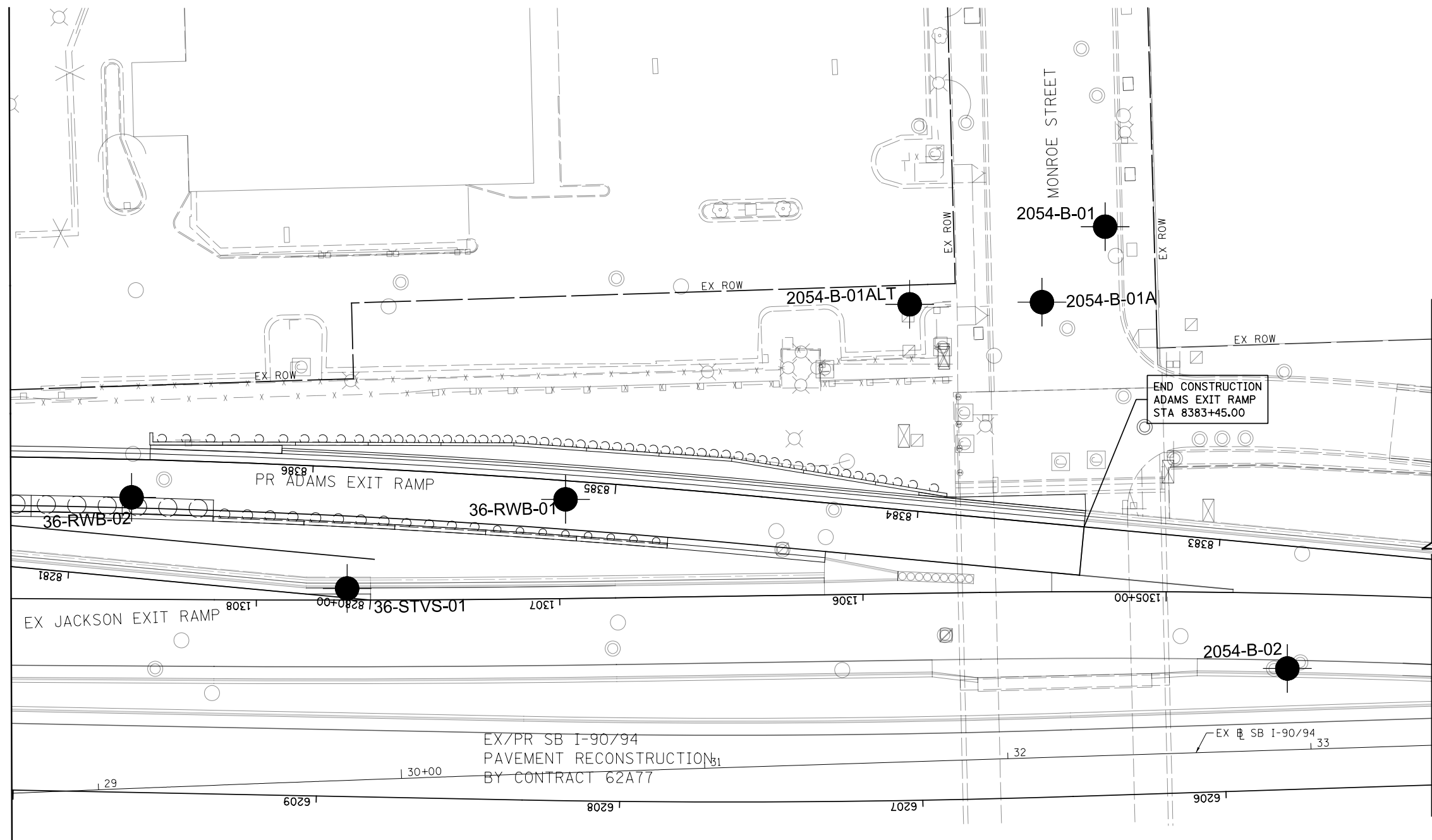
**ROADWAY PLAN
 I-90/94**

SCALE: 1"=20' SHEET # \$PLN-10F \$PLN-10EETS STA. 8286+00 TO STA. 8387+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	#TOT	#PLN-11
CONTRACT NO. 60X94			ILLINOIS FED. AID PROJECT	



SEE SHEET NO. PLN-11
MATCH LINE STA 8387+00 (PR B ADAMS EXIT RAMP)

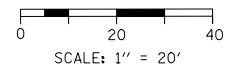


SB I-90/94

PR ADAMS EXIT RAMP
EX JACKSON EXIT RAMP
EX/PR SB I-90/94
PAVEMENT RECONSTRUCTION
BY CONTRACT 62A77
END CONSTRUCTION
ADAMS EXIT RAMP
STA 8383+45.00

SB90-SGB-04

2054-B-05



SCALE: 1" = 20'

FILE PATH = \$FILE\$



DESIGNED - \$PLN-11-DE	REVISED -
DRAWN - \$PLN-11-DR	REVISED -
CHECKED - \$PLN-11-CH	REVISED -
DATE - \$DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

SCALE: 1"=20' SHEET \$PLN-10F \$PLN-310SHEETS STA. 8382+25 TO STA. 8387+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X94			ILLINOIS FED. AID PROJECT	

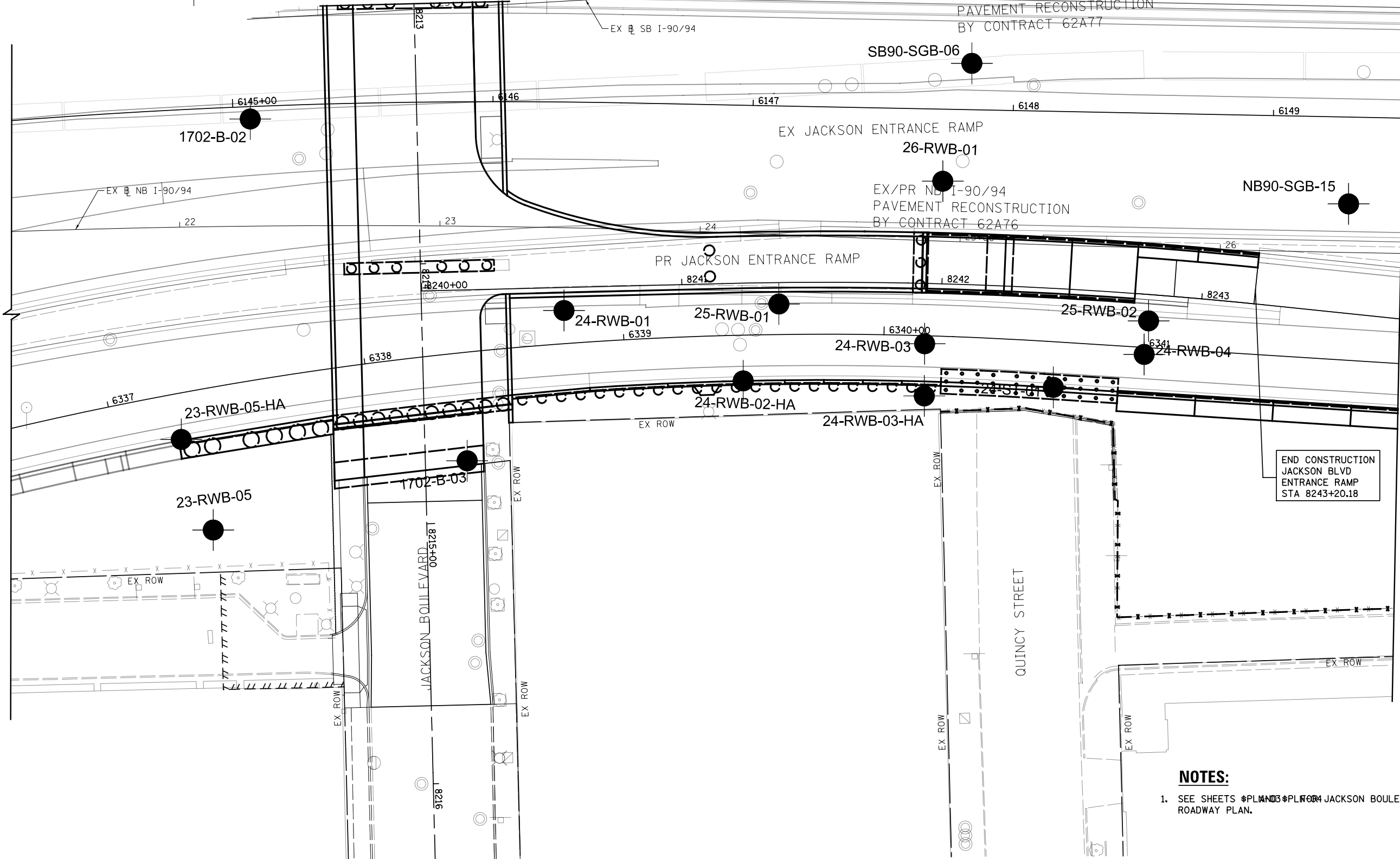


MATCH LINE STA 8213+00
(PR $\text{\textcircled{R}}$ JACKSON BLVD)
SEE SHEET NO. $\text{\textcircled{R}}$ PLN-10

EX/PR SB I-90/94
PAVEMENT RECONSTRUCTION
BY CONTRACT 62A77

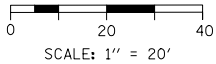
NB I-90/94

MATCH LINE STA 6149+50 (PR $\text{\textcircled{R}}$ NB I-90/94)
SEE SHEET NO. $\text{\textcircled{R}}$ PLN-14



END CONSTRUCTION
JACKSON BLVD
ENTRANCE RAMP
STA 8243+20.18

- NOTES:**
- SEE SHEETS $\text{\textcircled{R}}$ PLN-13 $\text{\textcircled{R}}$ PLN-14 JACKSON BOULEVARD ROADWAY PLAN.



FILE PATH = $\text{\textcircled{R}}$ FILEL $\text{\textcircled{R}}$



$\text{\textcircled{R}}$ FILES $\text{\textcircled{R}}$	DESIGNED - $\text{\textcircled{R}}$ PLN-12-DE	REVISED -
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PLOT SCALE = $\text{\textcircled{R}}$ SCALE $\text{\textcircled{R}}$	CHECKED - $\text{\textcircled{R}}$ PLN-12-CH	REVISED -
PLOT DATE = $\text{\textcircled{R}}$ DATE $\text{\textcircled{R}}$	DATE - $\text{\textcircled{R}}$ DATE	REVISED -

DESIGNED - $\text{\textcircled{R}}$ PLN-12-DE	REVISED -
DRAWN - $\text{\textcircled{R}}$ PLN-12-DR	REVISED -
CHECKED - $\text{\textcircled{R}}$ PLN-12-CH	REVISED -
DATE - $\text{\textcircled{R}}$ DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-90/94

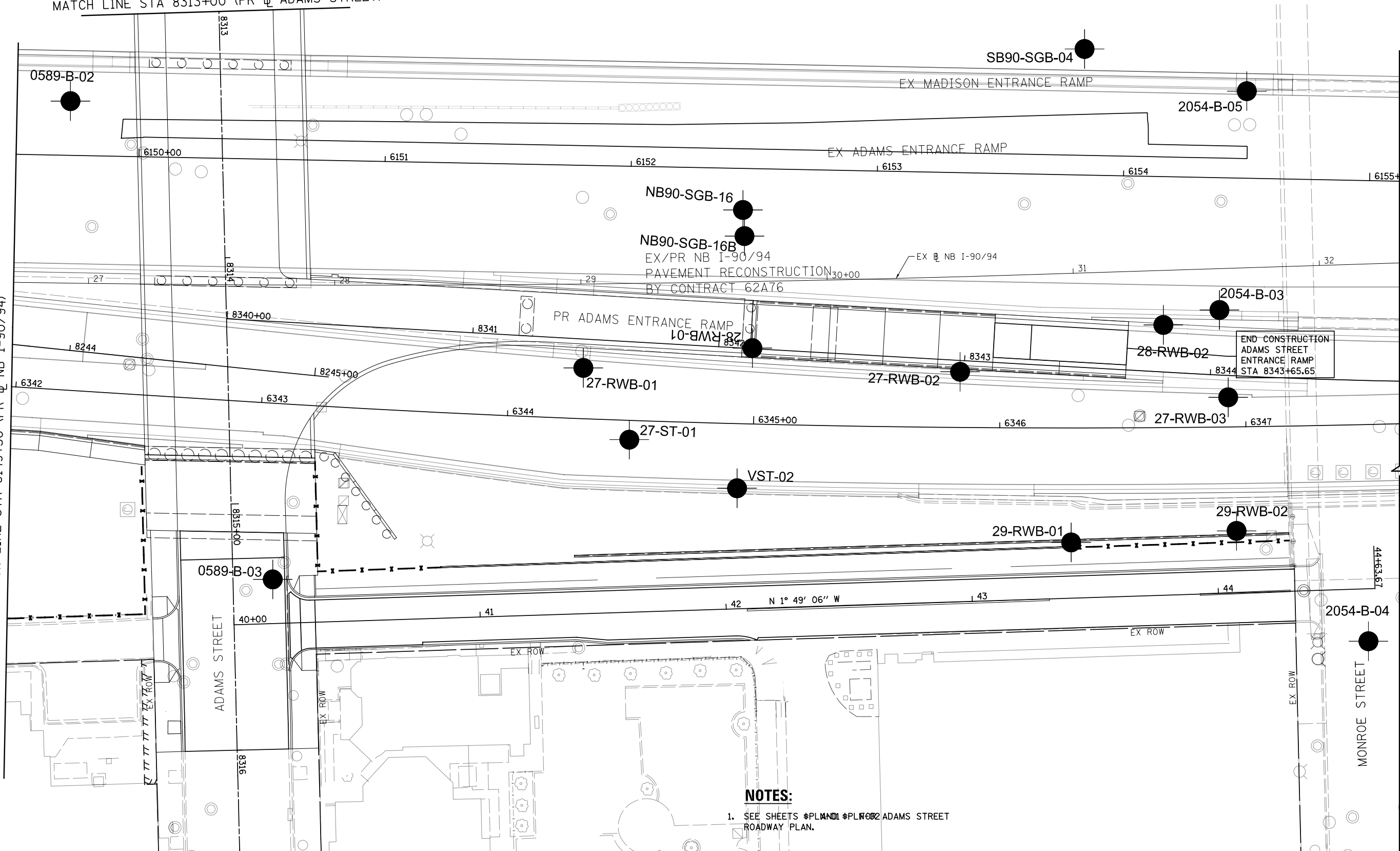
SCALE: 1"=20' SHEET $\text{\textcircled{R}}$ PLN-10F $\text{\textcircled{R}}$ PLN-10EETS STA. 6145+00 TO STA. 6149+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	$\text{\textcircled{R}}$ TOT	$\text{\textcircled{R}}$ PLN-13
CONTRACT NO. 60X94			ILLINOIS FED. AID PROJECT	



SEE SHEET NO. PLN-11
MATCH LINE STA 8313+00 (PR ADAMS STREET)

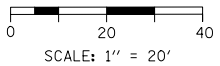
SEE SHEET NO. PLN-13
MATCH LINE STA 6149+50 (PR NB I-90/94)



END CONSTRUCTION
ADAMS STREET
ENTRANCE RAMP
STA 8343+65.65

NOTES:

- SEE SHEETS #PLN-11 & #PLN-12 ADAMS STREET ROADWAY PLAN.



FILE PATH = #FILE#



#FILES#	DESIGNED - #PLN-13-DE	REVISED -
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PLOT SCALE = #SCALE#	CHECKED - #PLN-13-CH	REVISED -
PLOT DATE = #DATE#	DATE - #DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-90/94**

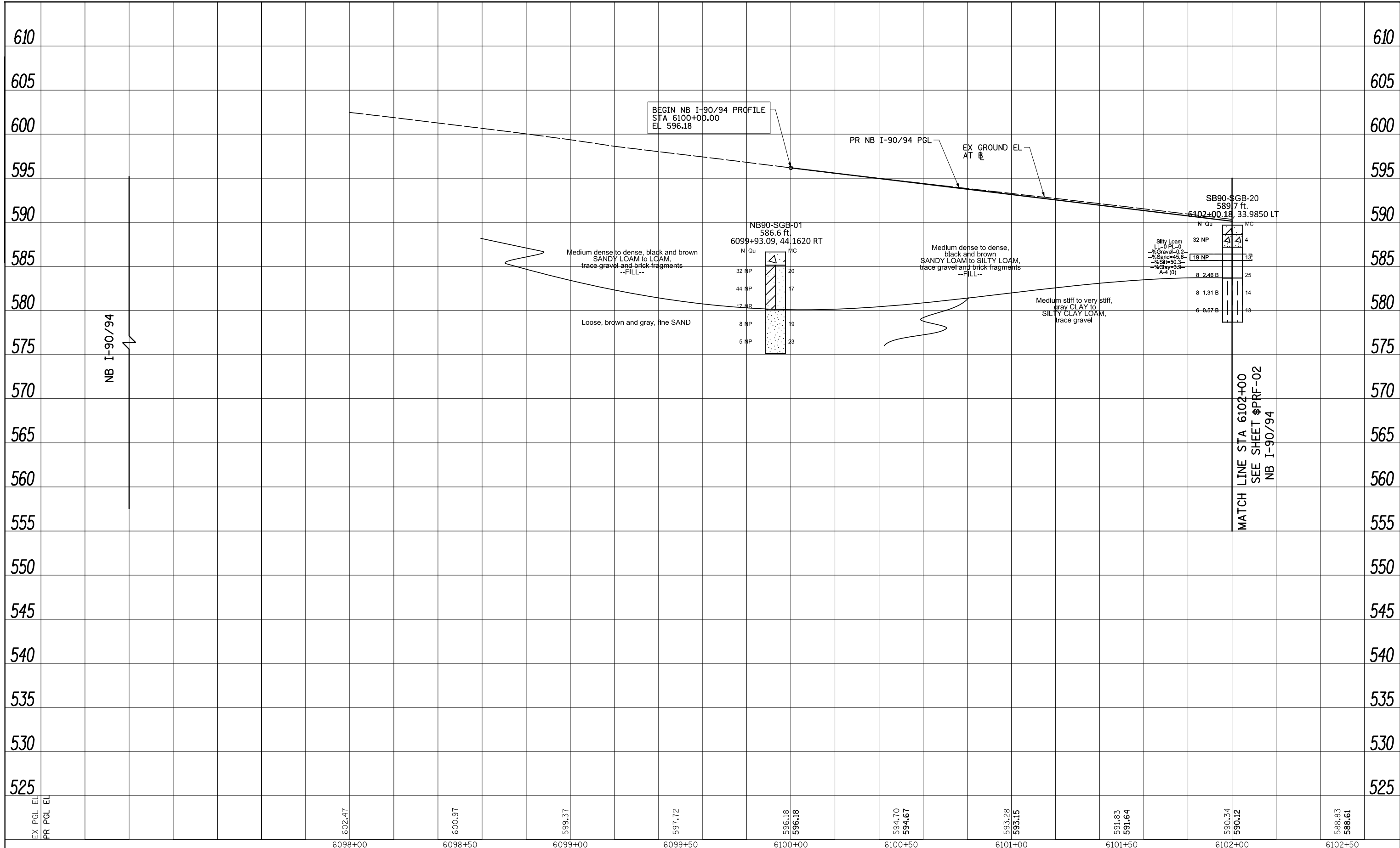
SCALE: 1"=20' SHEET # PLN-10F # PLN-10G ST. 6149+50 TO STA. 6155+12

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	#TOT	#PLN-14
				CONTRACT NO. 60X94
ILLINOIS FED. AID PROJECT				

- I-90/94 NB and Connecting Ramps

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	MAINT	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATRS	
	CHKD	
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FILE PATH = \$FILEL\$



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

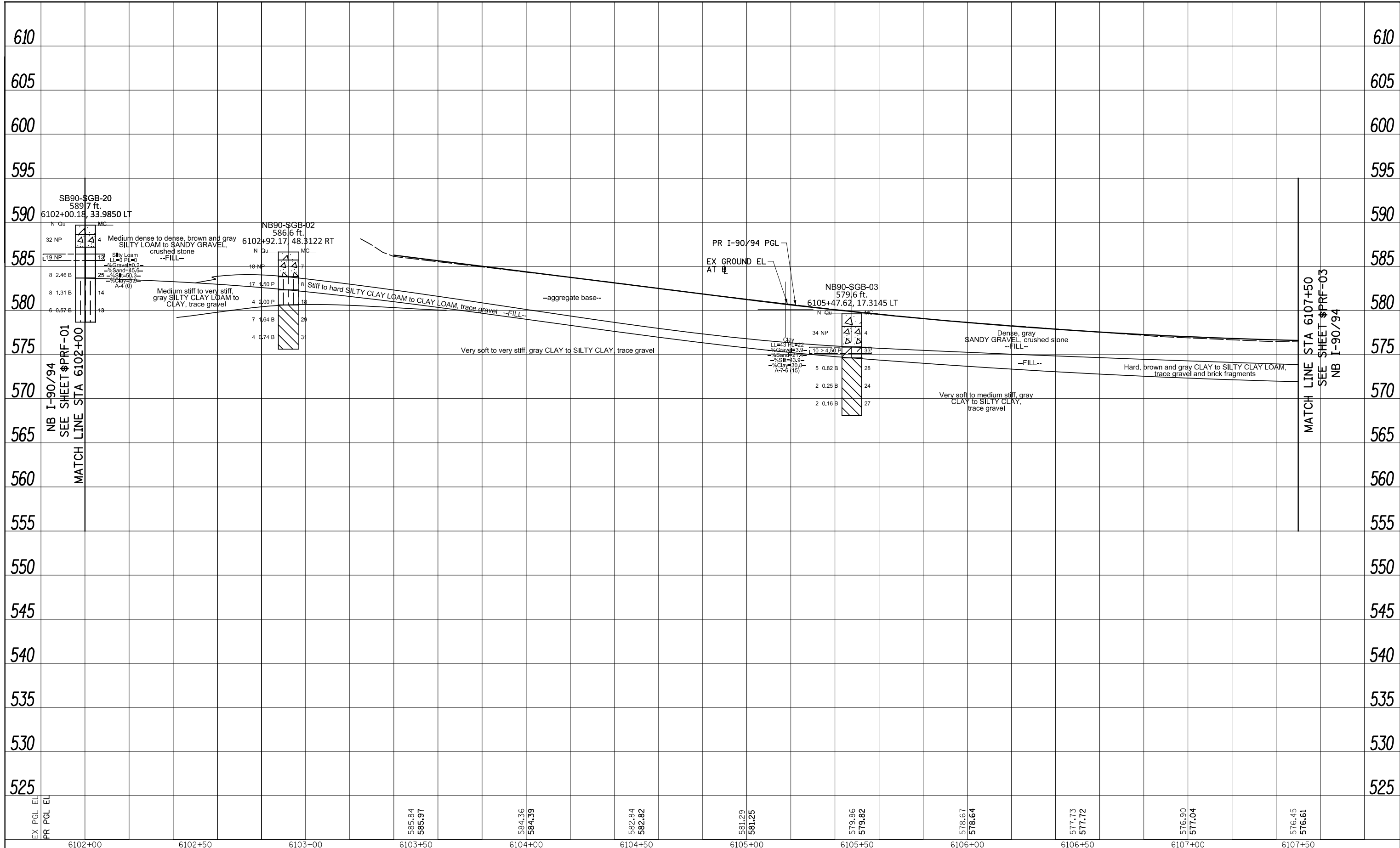
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-01F \$PRF-01EETS STA. 6098+00 TO STA. 6102+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-01
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
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PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

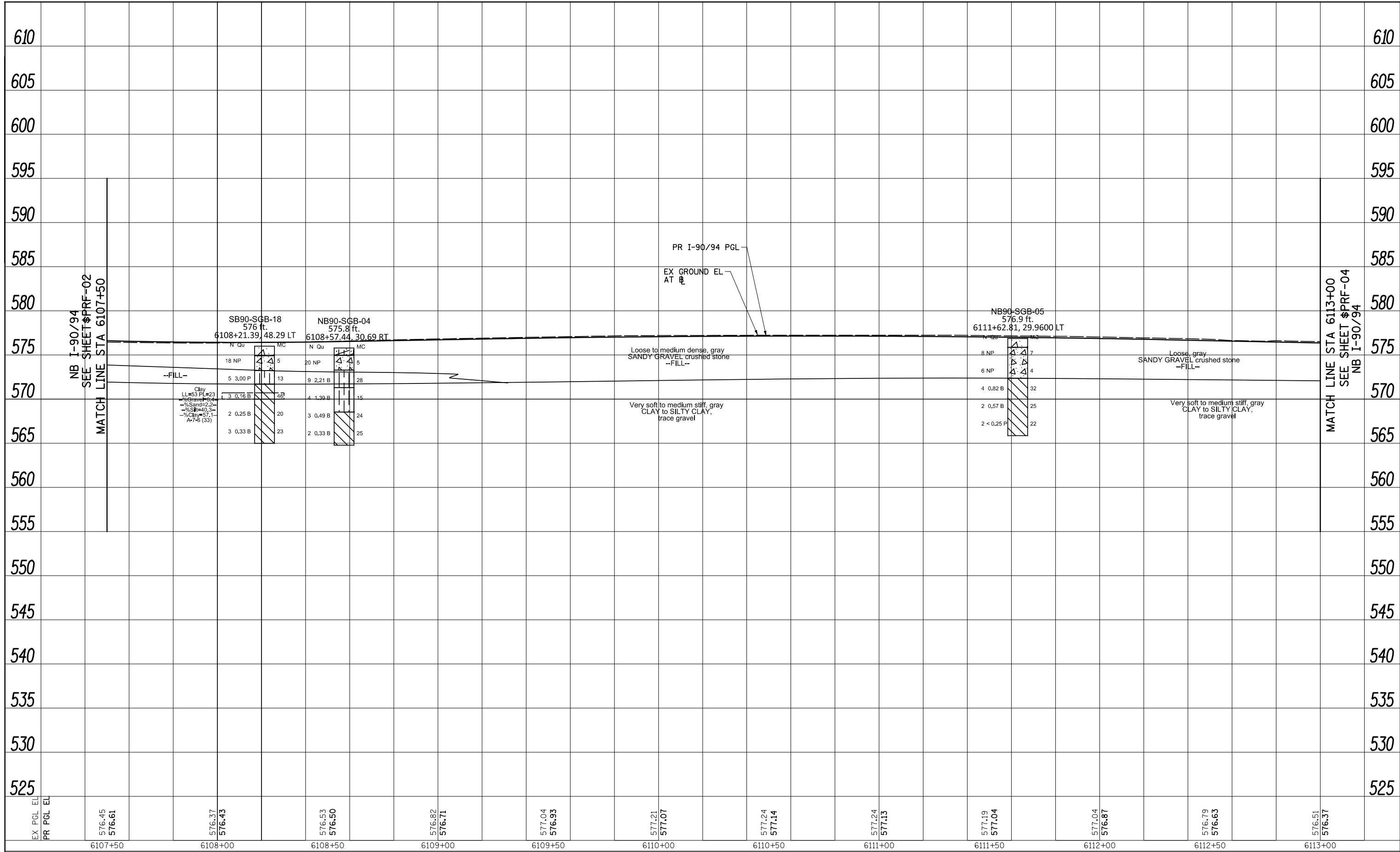
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-00F \$PRF-00EETS STA. 6102+00 TO STA. 6107+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-02
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
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	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
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	GRADES CHECKED		
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	NO. _____		



FILE PATH = \$FILEL\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

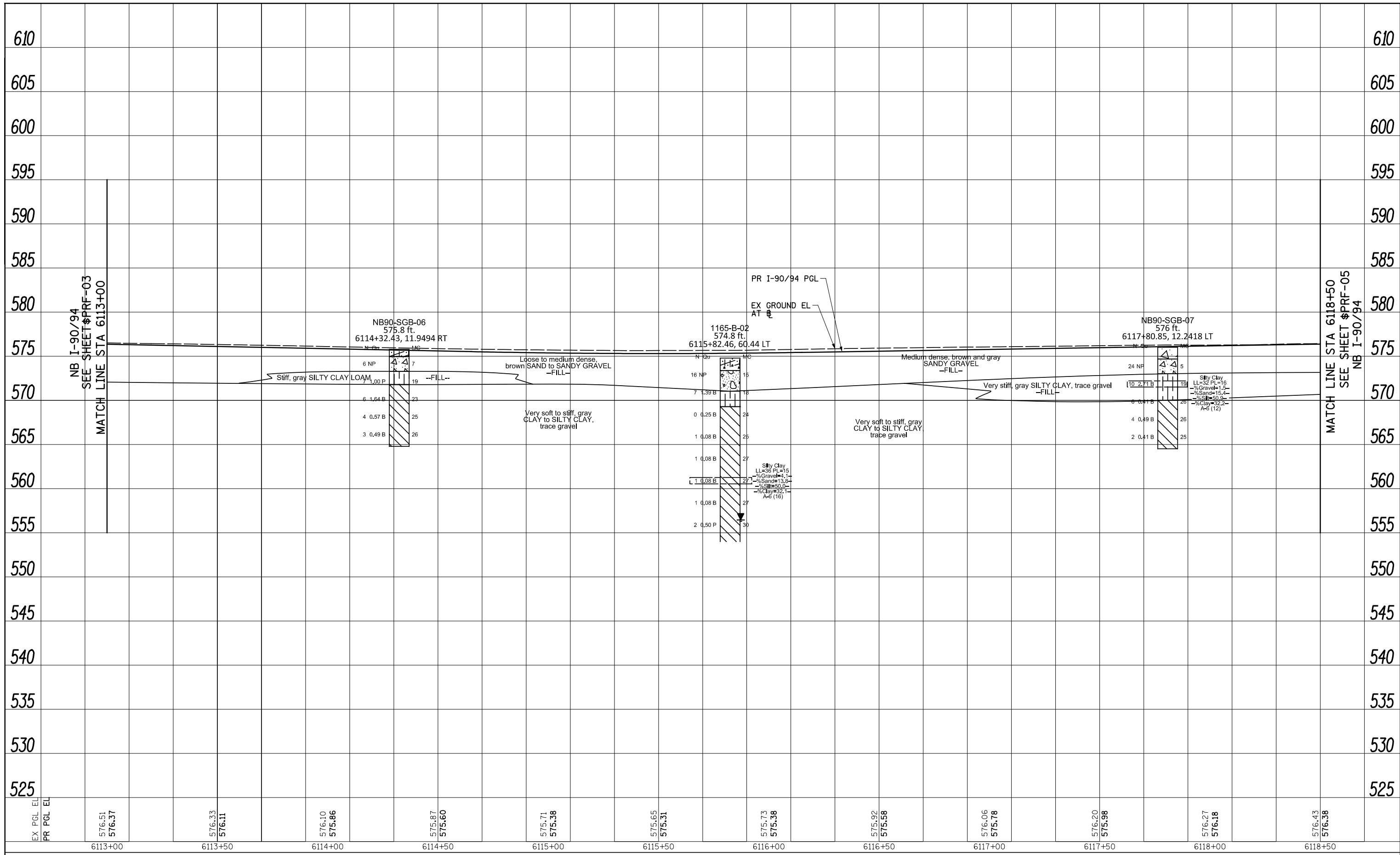
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-003 \$PRF-000 SHEETS STA. 6107+50 TO STA. 6113+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-03
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNMENT	
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	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIS	
	CHFD	
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FILE PATH = \$FILEL\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
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DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

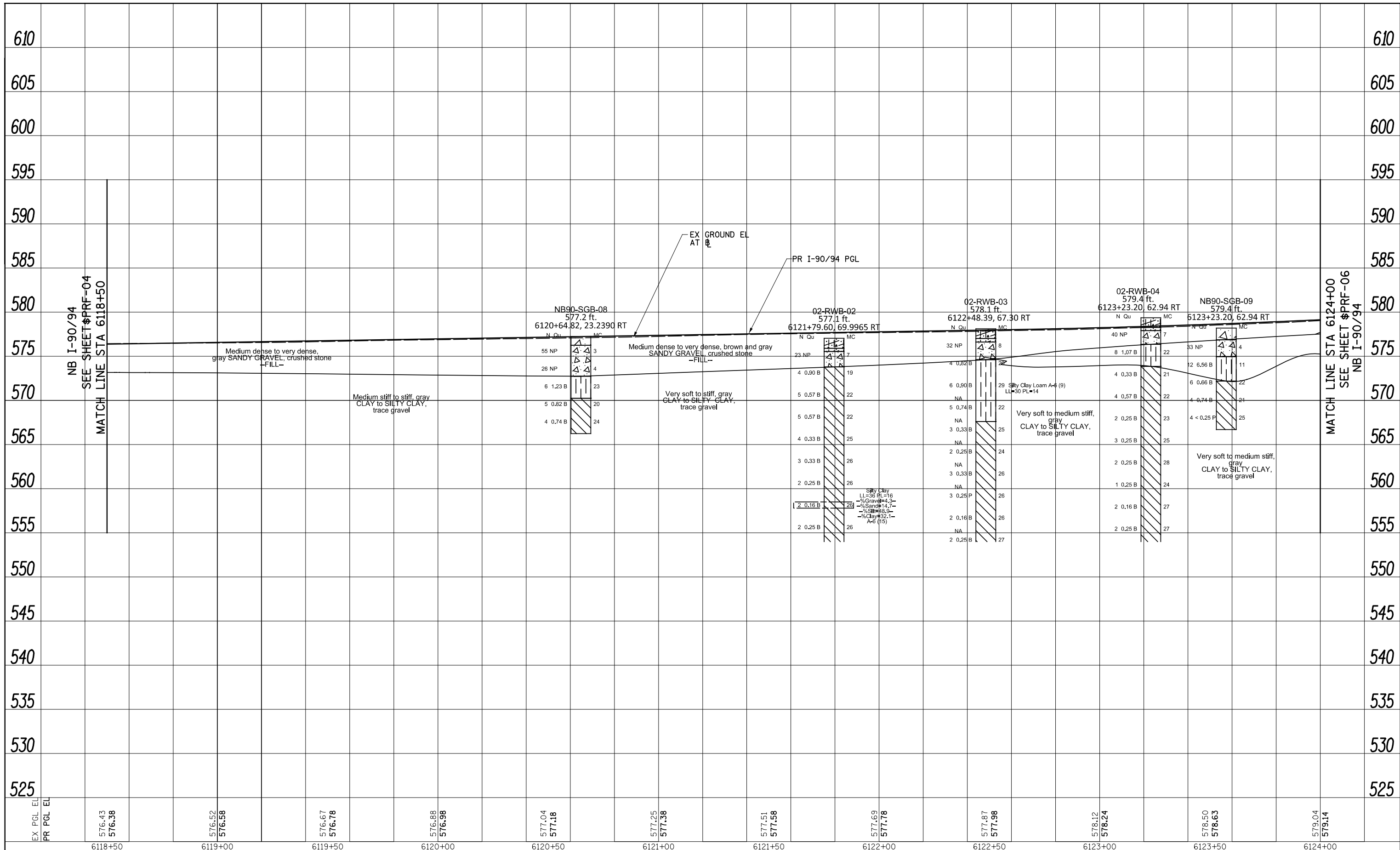
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-00F \$PRF-00EETS STA. 6113+00 TO STA. 6118+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-0
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
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	ALIGNED	
	FILED	
NOTE BOOK NO.	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.		



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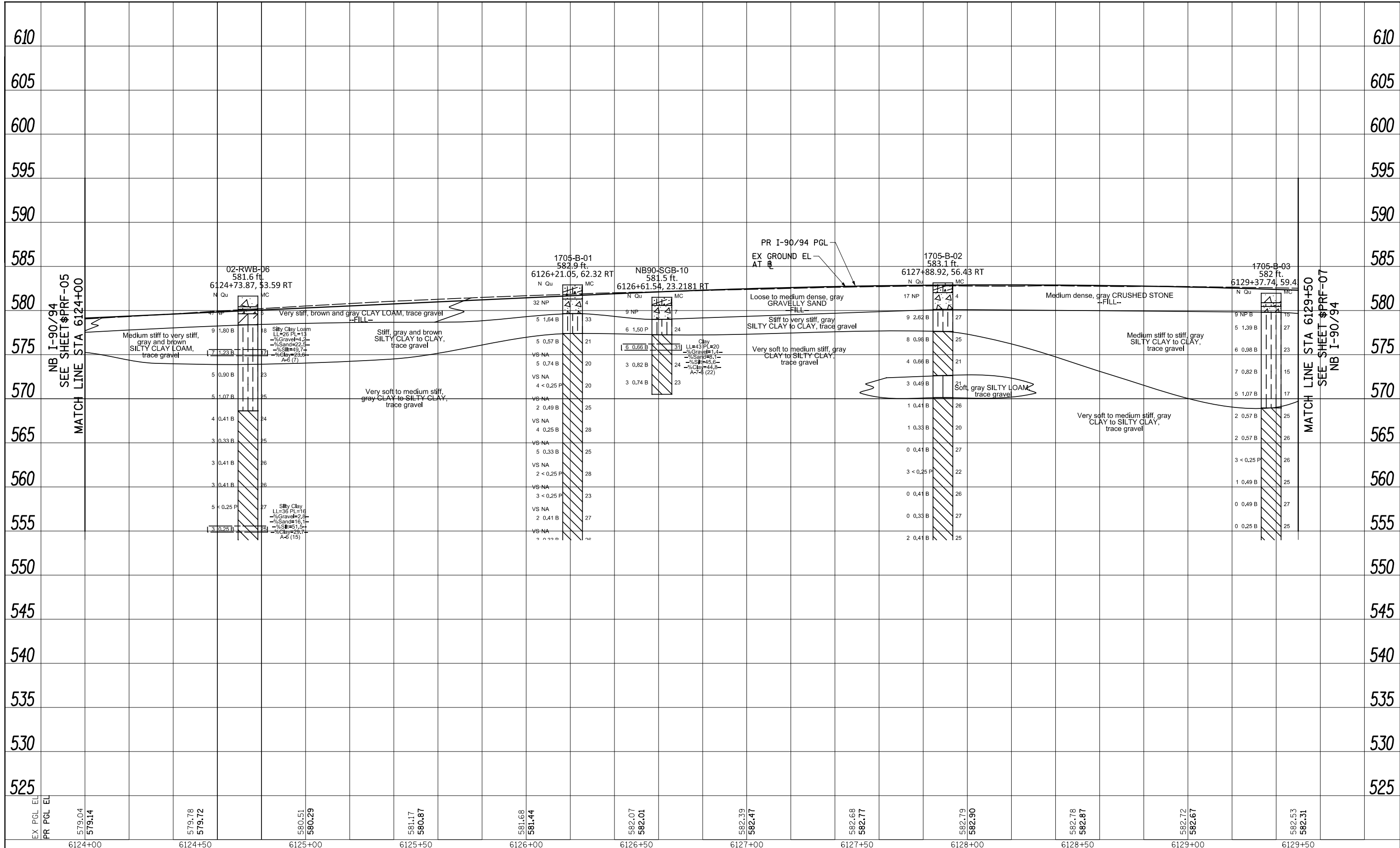
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE	
I-90/94	
SCALE: 1"=20'	SHEET \$PRF-00F \$PRF-00EETS
STA. 6118+50	TO STA. 6124+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-05
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	CAD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATIONS		
	CHFD		
	NO.		



NB I-90/94
SEE SHEET \$PRF-05
MATCH LINE STA 6124+00

MATCH LINE STA 6129+50
SEE SHEET \$PRF-07
NB I-90/94



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

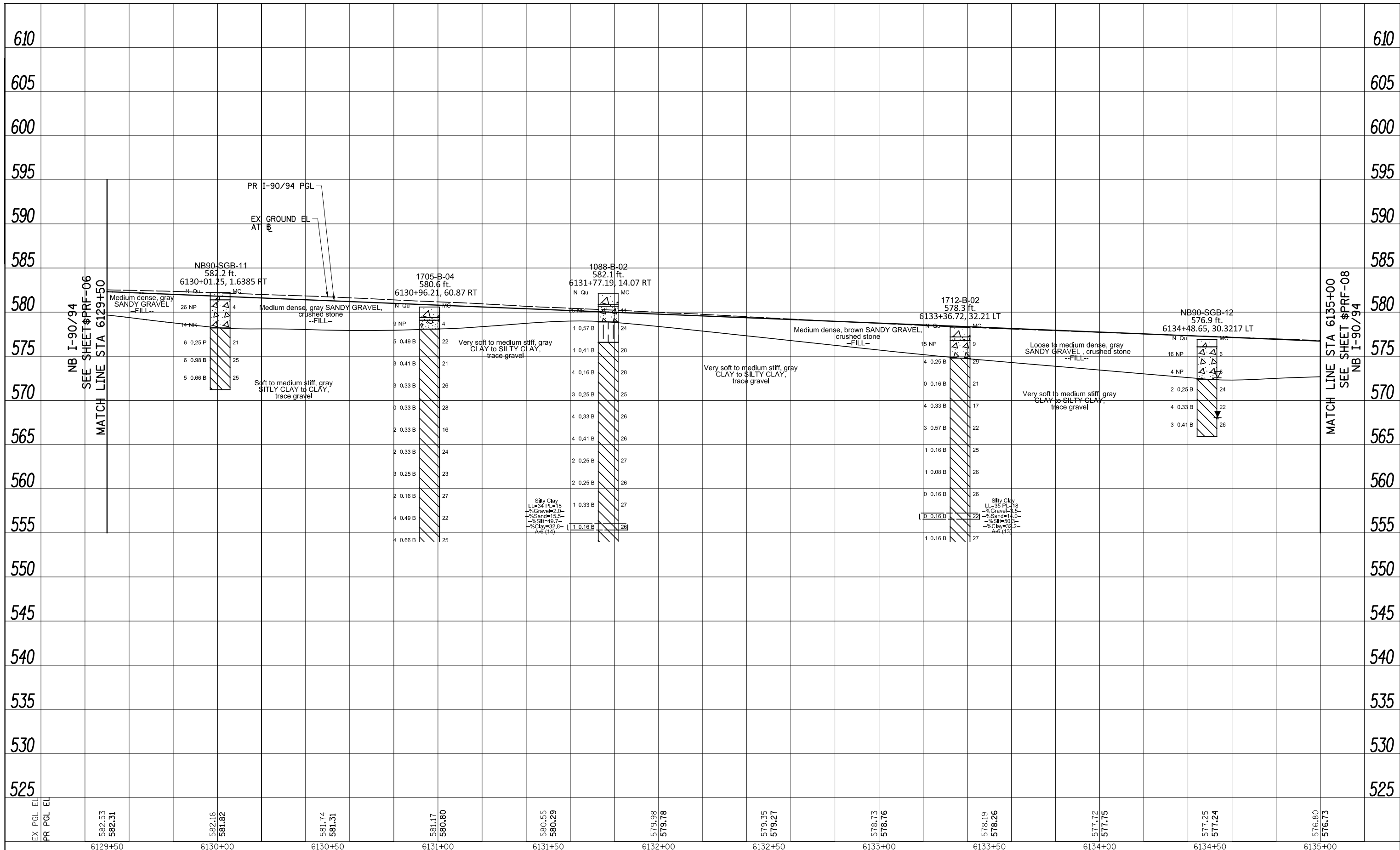
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' SHEET \$PRF-00F \$PRF-01 SHEETS STA. 6124+00 TO STA. 6129+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-06
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

PLAN	SURVEYED	BY	DATE
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	CHECKED		
	ALIGNMENT		
	NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHFD		



NB I-90/94
SEE SHEET PRF-06
MATCH LINE STA 6129+50

MATCH LINE STA 6135+00
SEE SHEET PRF-08
NB I-90/94

FILE PATH = \$FILEL\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

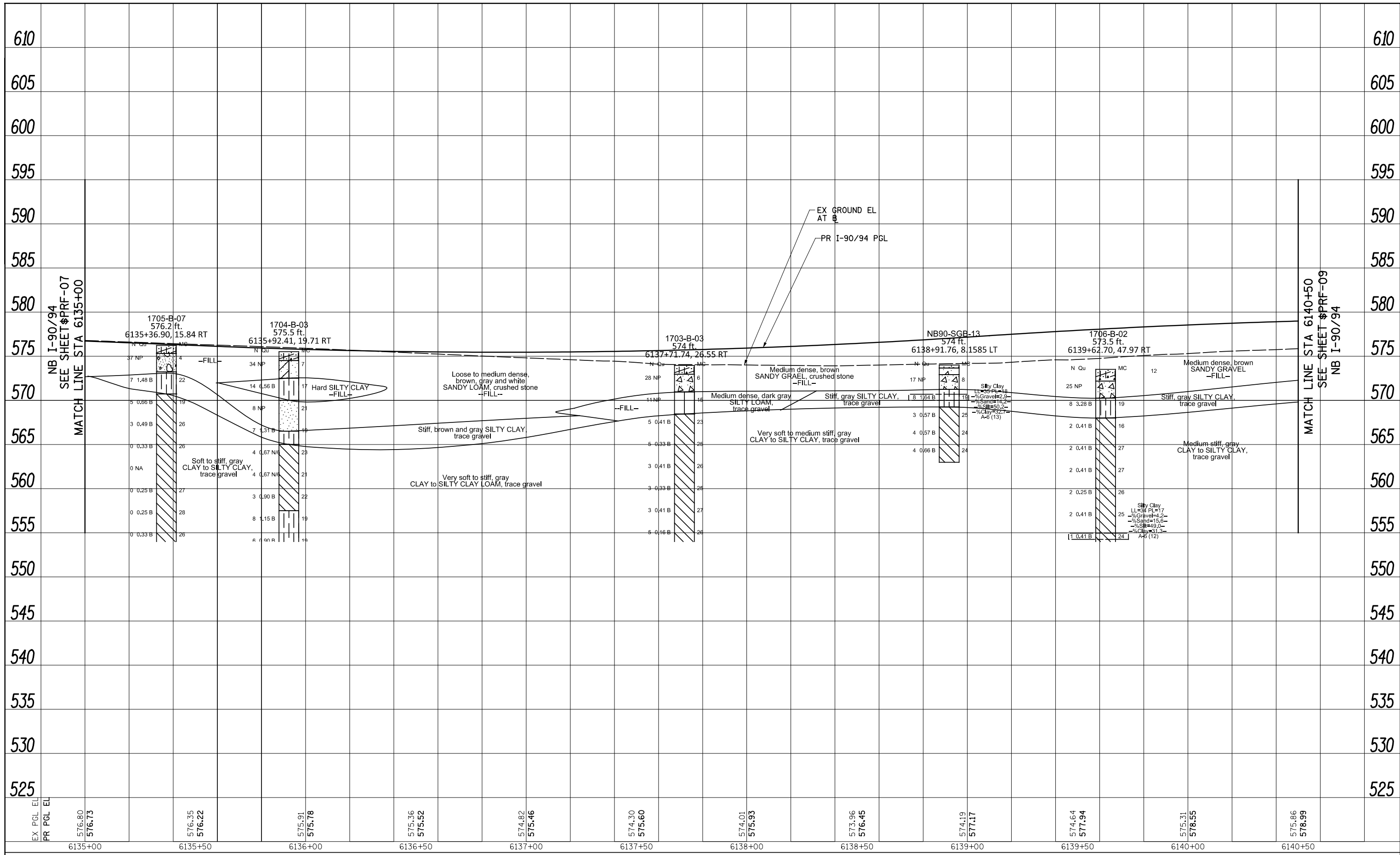
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' SHEET \$PRF-00F \$PRF-00EETS STA. 6129+50 TO STA. 6135+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-07
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
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	CHECKED	
	ALIGNED	
	CAD FILE NAME	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
NOTE BOOK NO.		
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FILE PATH = \$FILEL\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

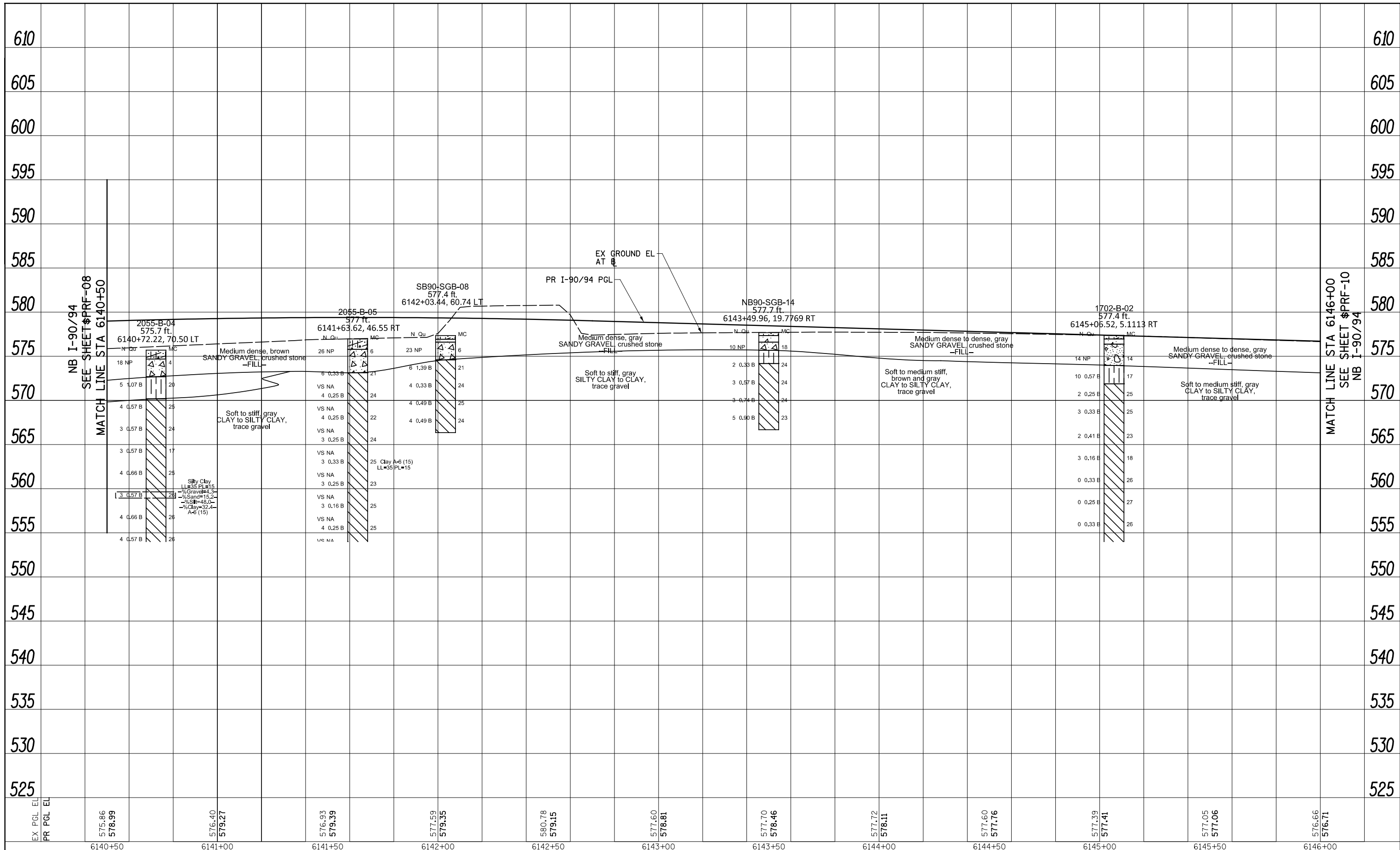
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-00F \$PRF-00EETS STA. 6135+00 TO STA. 6140+50

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS \$TOT \$PRF-08	SHEET NO. 62A76
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE	
	NOTATIS CHFD	
	NO.	



FILE PATH = \$FILEL\$



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

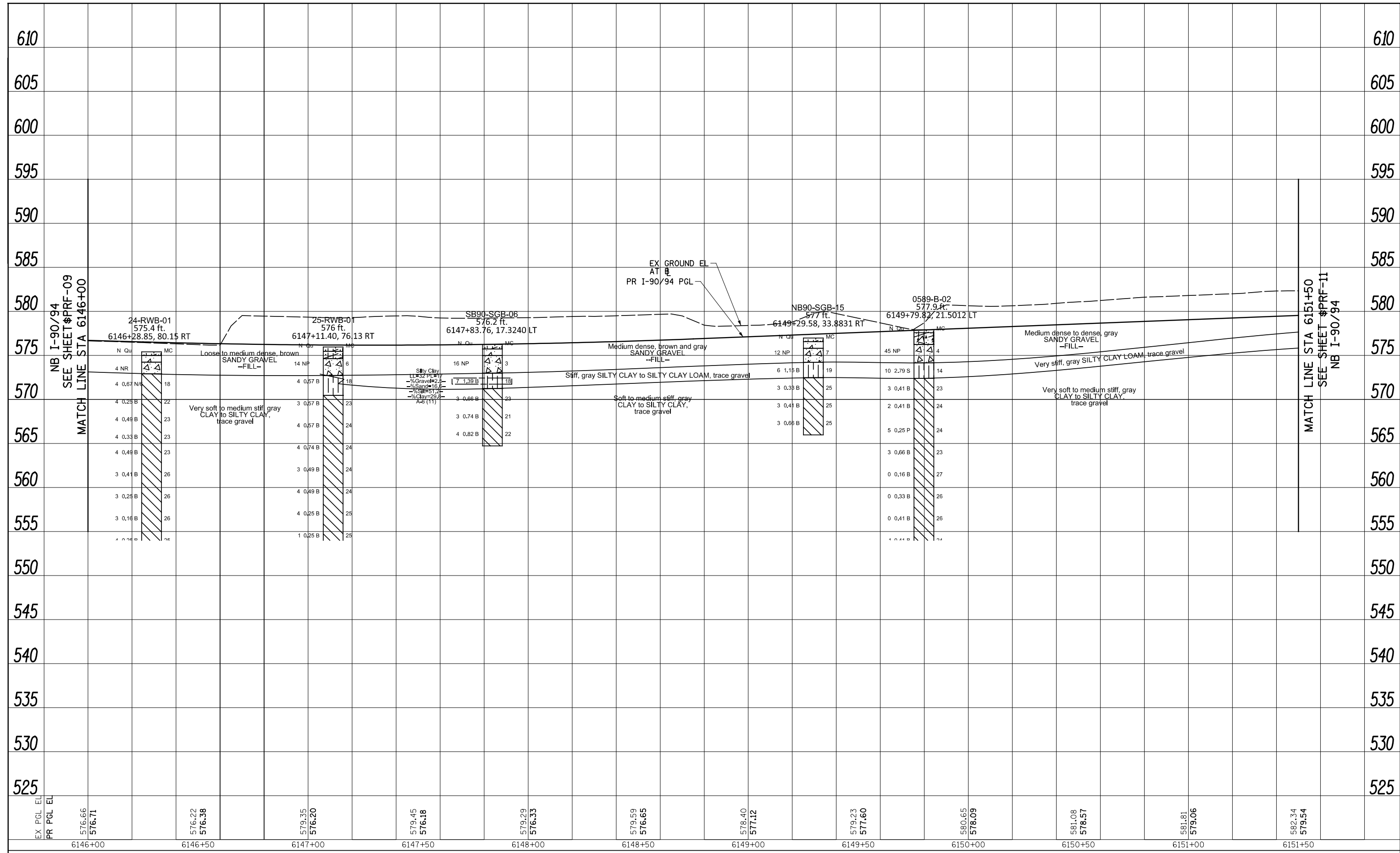
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-00F \$PRF-00EETS STA. 6140+50 TO STA. 6146+00

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-00F
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATRS	
	CHPO	
	NO.	



NB I-90/94
SEE SHEET \$PRF-09
MATCH LINE STA 6146+00

MATCH LINE STA 6151+50
SEE SHEET \$PRF-11
NB I-90/94

FILE PATH = \$FILE\$



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

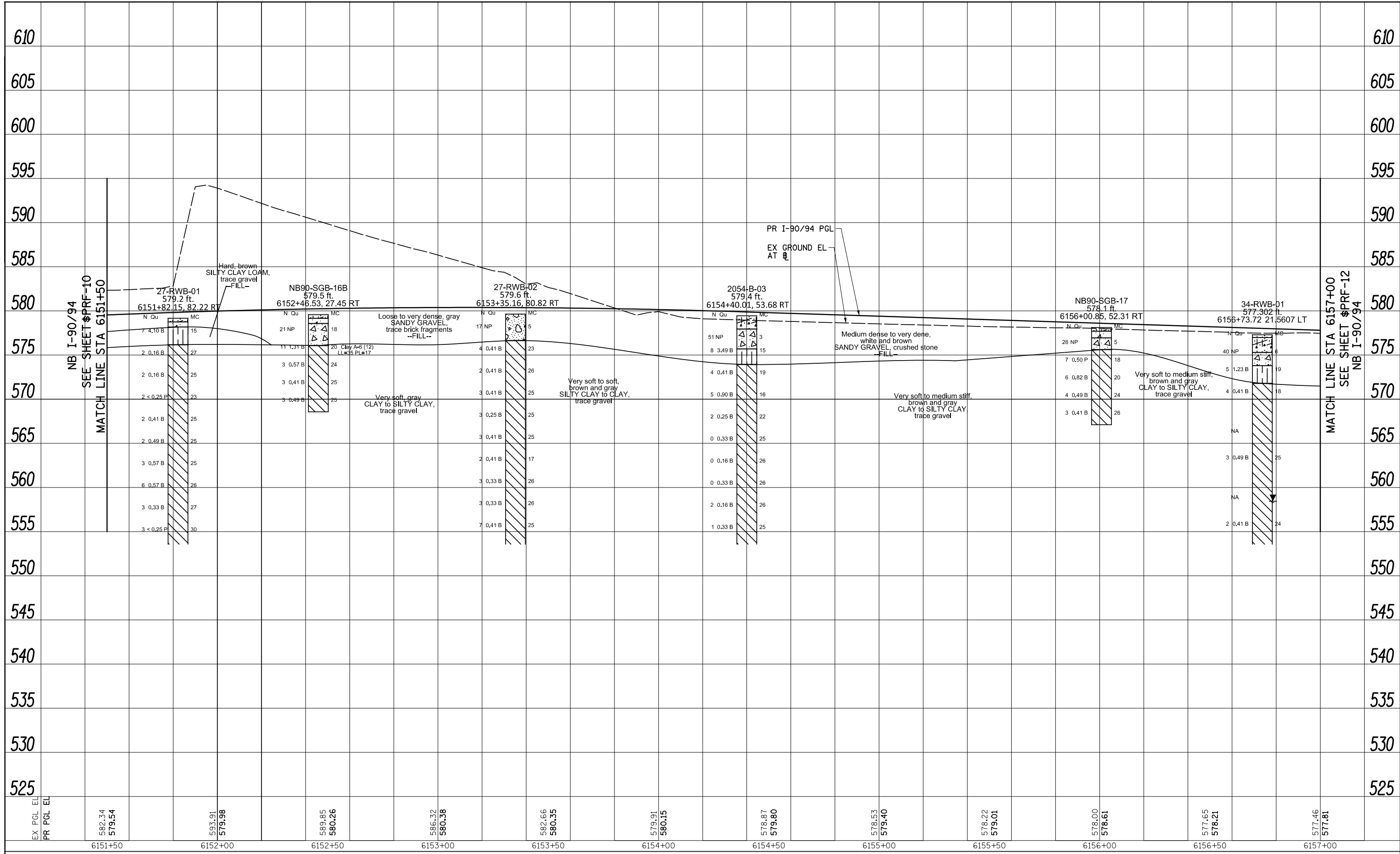
ROADWAY PROFILE
I-90/94

SCALE: 1"=20' SHEET \$PRF-10F \$PRF-10EETS STA. 6146+00 TO STA. 6151+50

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

PLAN	SURVEYED	BY	DATE
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PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO. _____		



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

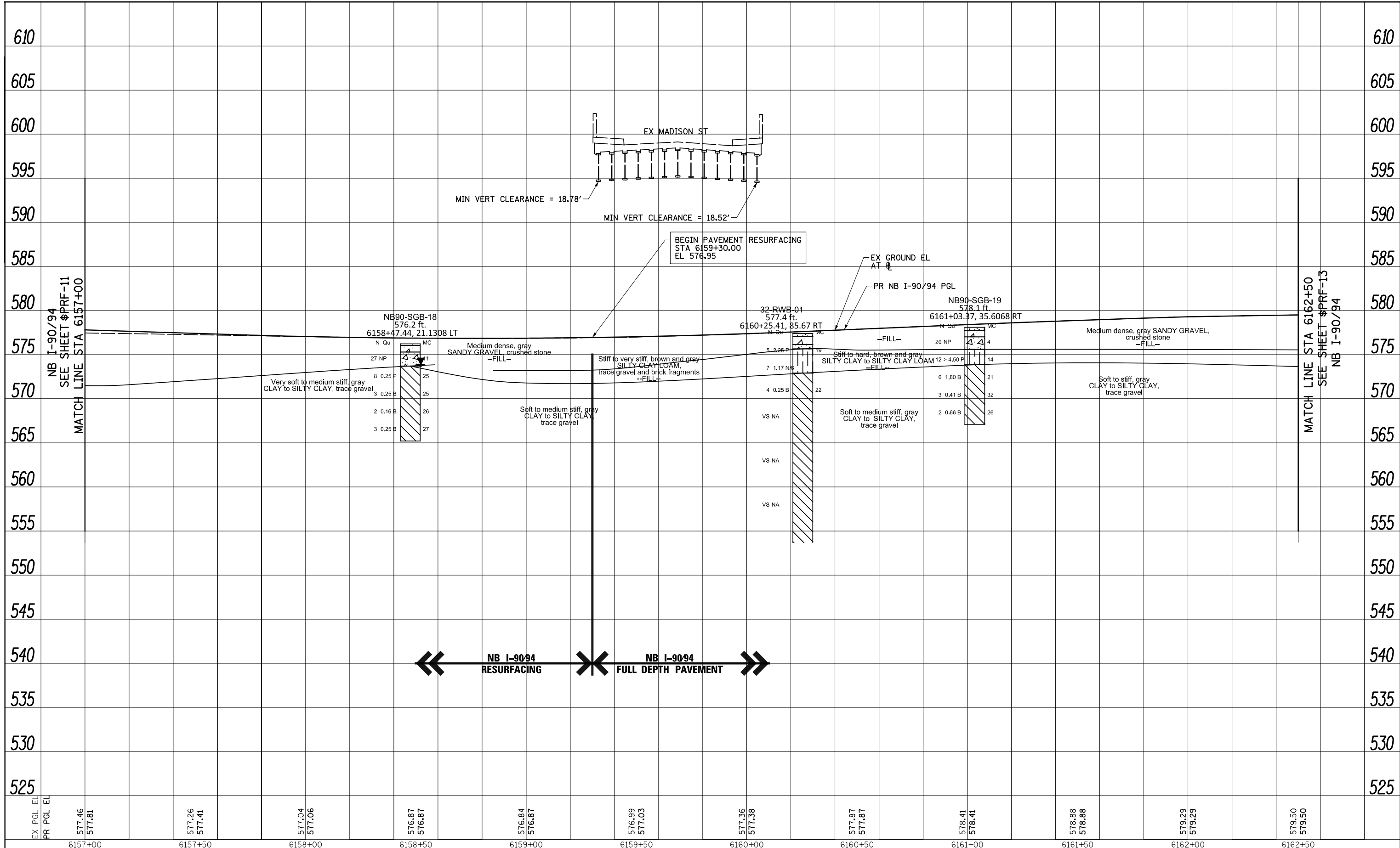
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-10F \$PRF-10EETS STA. 6151+50 TO STA. 6157+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-11
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHFD	
	NO.	



← NB I-90/94 RESURFACING NB I-90/94 FULL DEPTH PAVEMENT →

FILE PATH = \$FILEL\$



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DRAWN - \$PRF-01-DR	REVISED -
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DATE - \$DATE	REVISED -

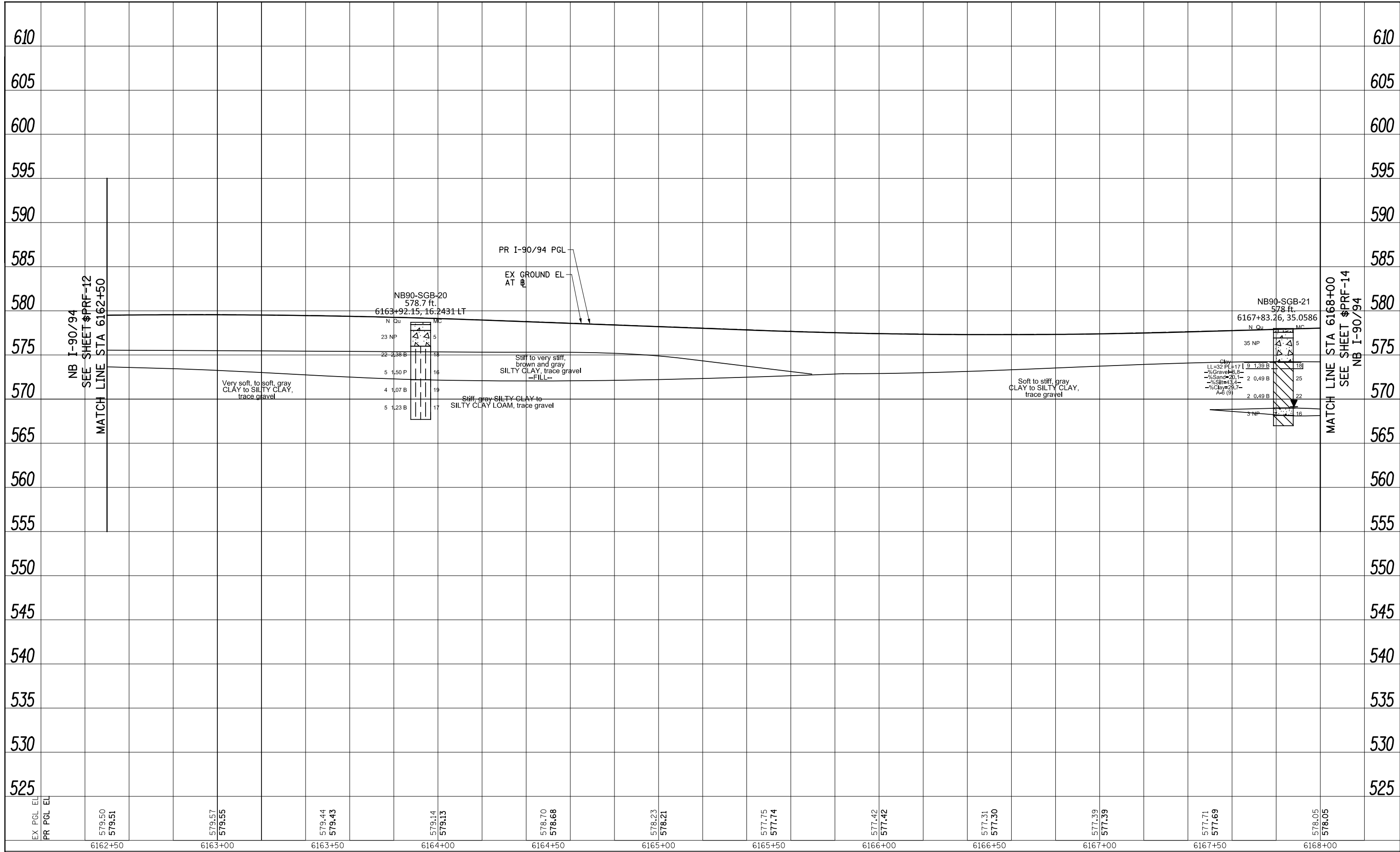
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE	
I-90/94	
SCALE: 1"=20'	SHEET \$PRF-10F \$PRF-10EETS
STA. 6157+00	TO STA. 6162+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-12
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	CAD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



NB I-90/94
SEE SHEET #PRF-12
MATCH LINE STA 6162+50

MATCH LINE STA 6168+00
SEE SHEET #PRF-14
NB I-90/94

EX PGL EL	579.50	579.57	579.44	579.14	578.70	578.23	577.75	577.42	577.31	577.39	577.71	578.05
PR PGL EL	579.51	579.55	579.43	579.13	578.68	578.21	577.74	577.42	577.30	577.39	577.69	578.05
	6162+50	6163+00	6163+50	6164+00	6164+50	6165+00	6165+50	6166+00	6166+50	6167+00	6167+50	6168+00



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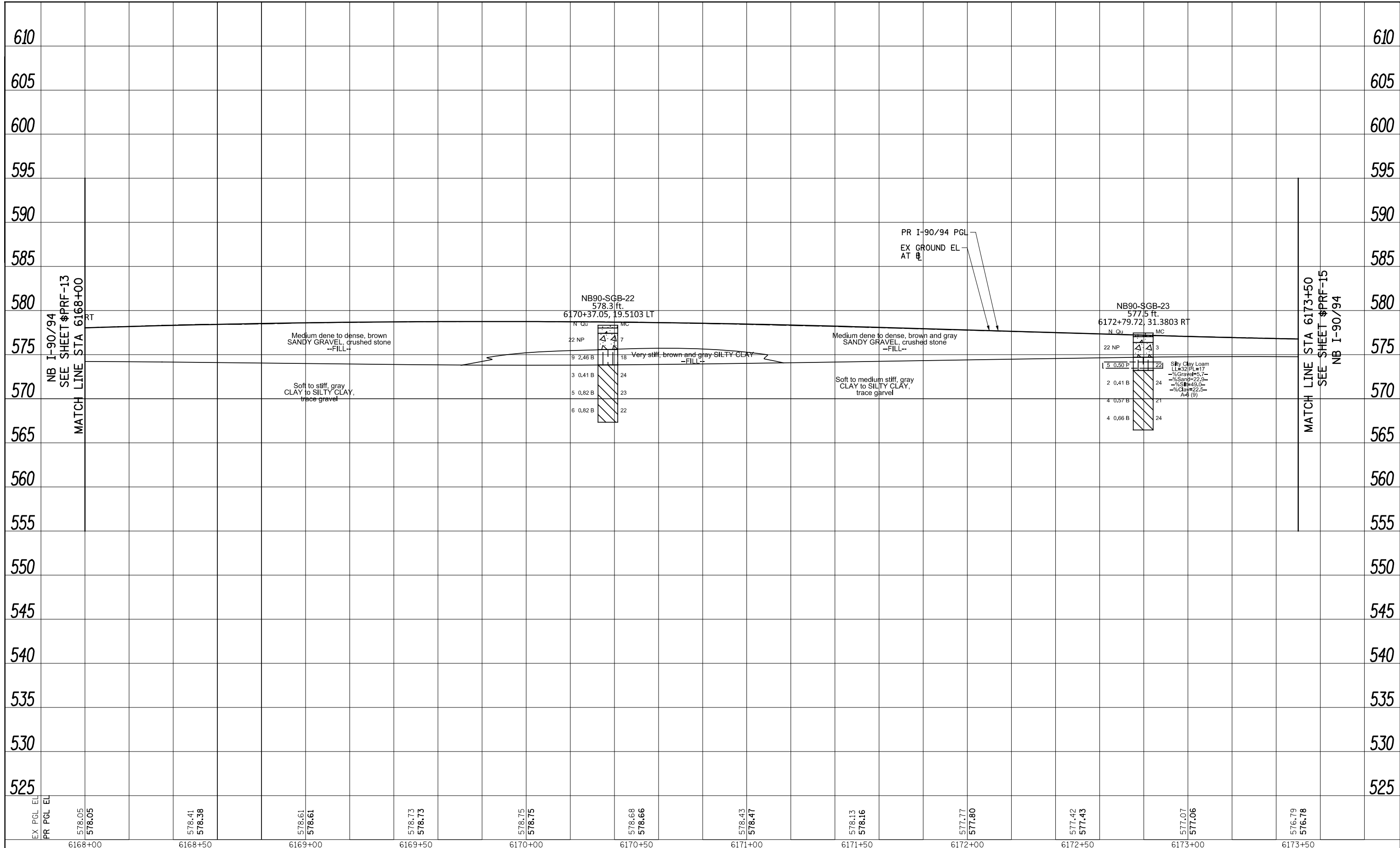
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE	
I-90/94	
SCALE: 1"=20'	SHEET #PRF-10F #PRF-30SHEETS STA. 6162+50 TO STA. 6168+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	#TOT	#PRF-13
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHPKD	
	NO.	



FILE PATH = \$FILEL\$



FILES	DESIGNED - \$PRF-01-DE	REVISED -
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PLOT SCALE = \$SCALE*	CHECKED - \$PRF-01-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

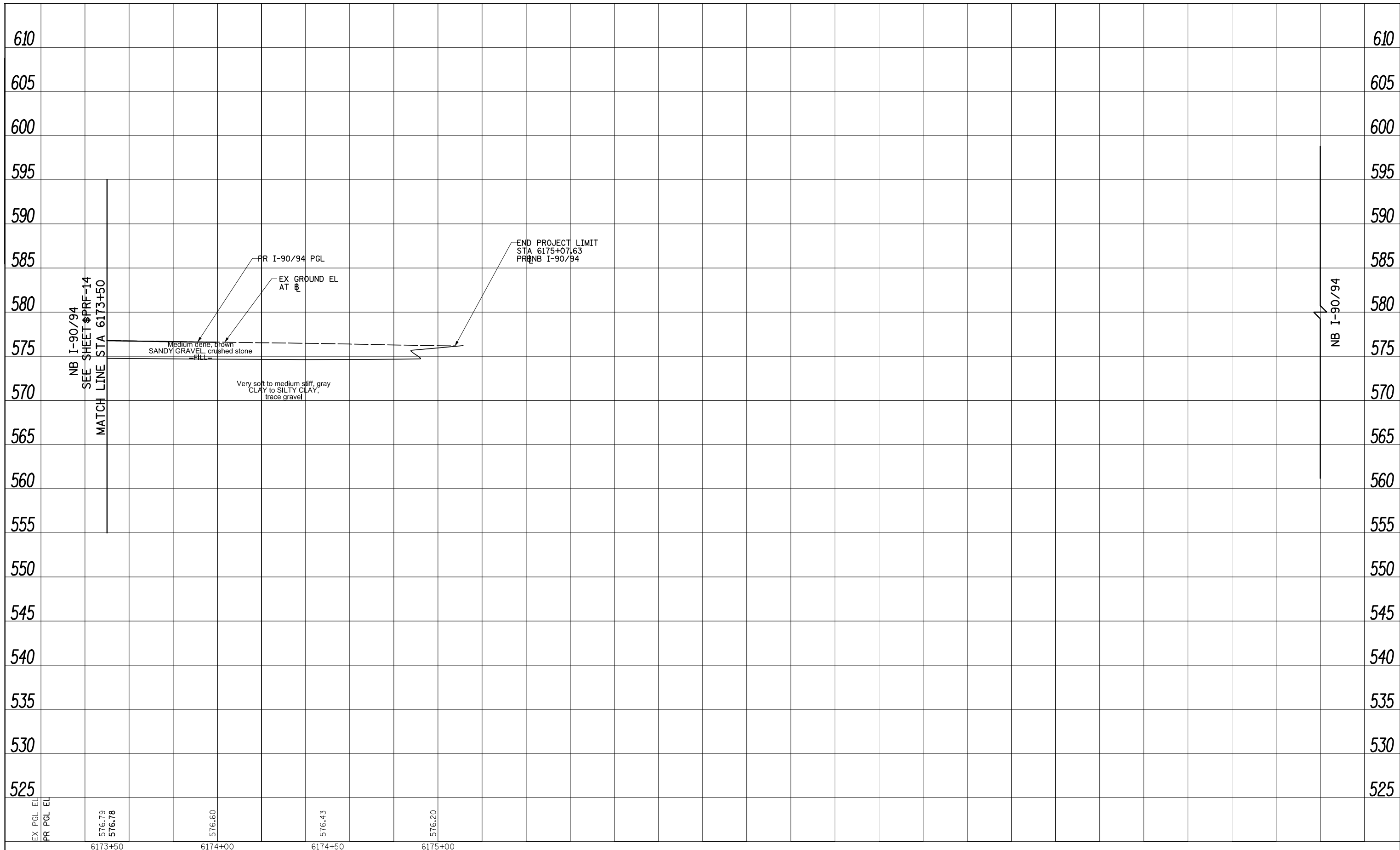
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-10F \$PRF-10EETS STA. 6168+00 TO STA. 6173+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-14
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNMENT		
	NO. _____		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATRS		
	CHFD		



FILE PATH = \$FILEL\$



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PLOT DATE = \$DATE\$	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

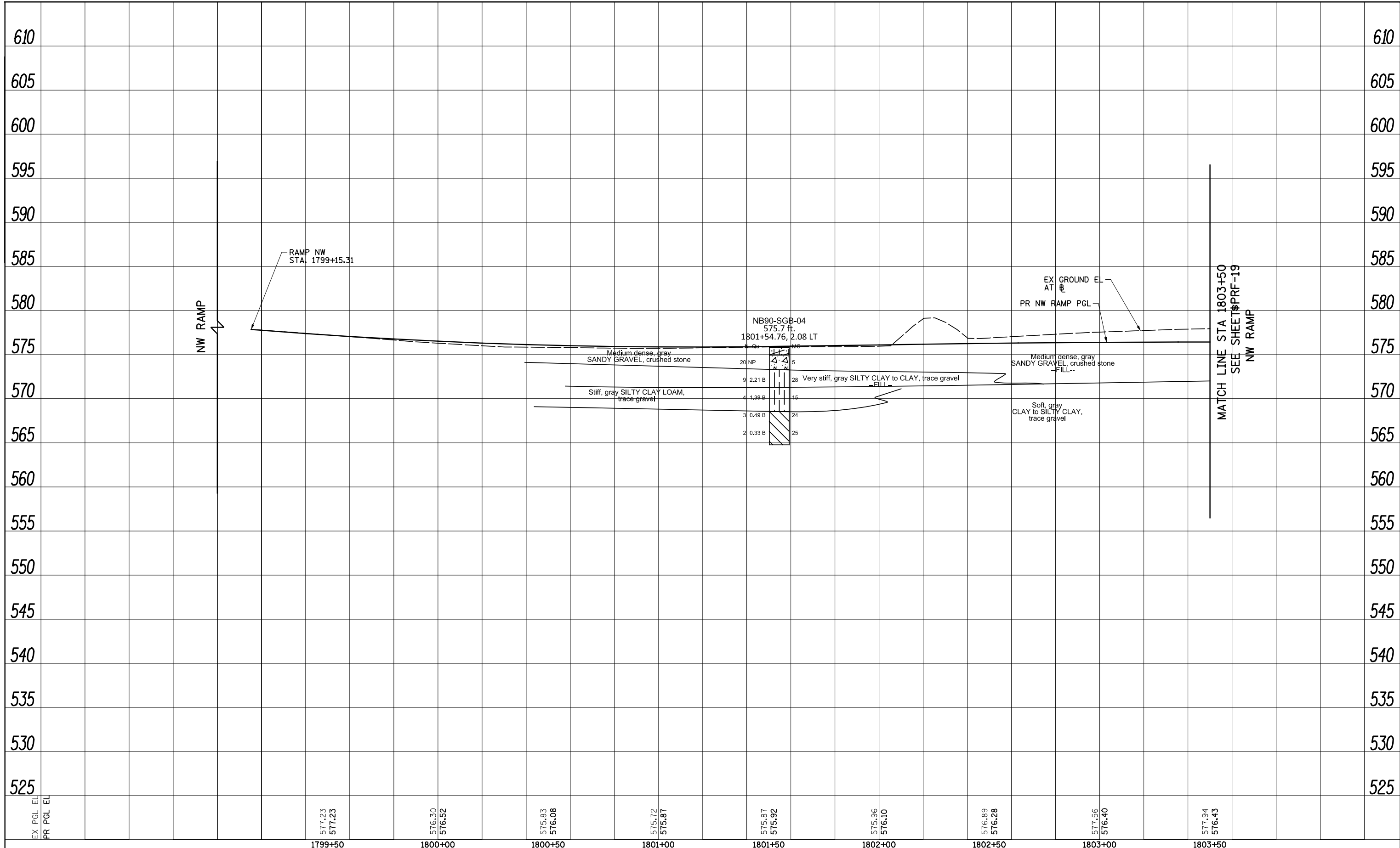
**ROADWAY PROFILE
I-90/94**

SCALE: 1"=20' SHEET \$PRF-10F \$PRF-30SHEETS STA. 6173+50 TO STA. 6175+07.63

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-15
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	CAD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



FILE PATH = \$FILEL\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

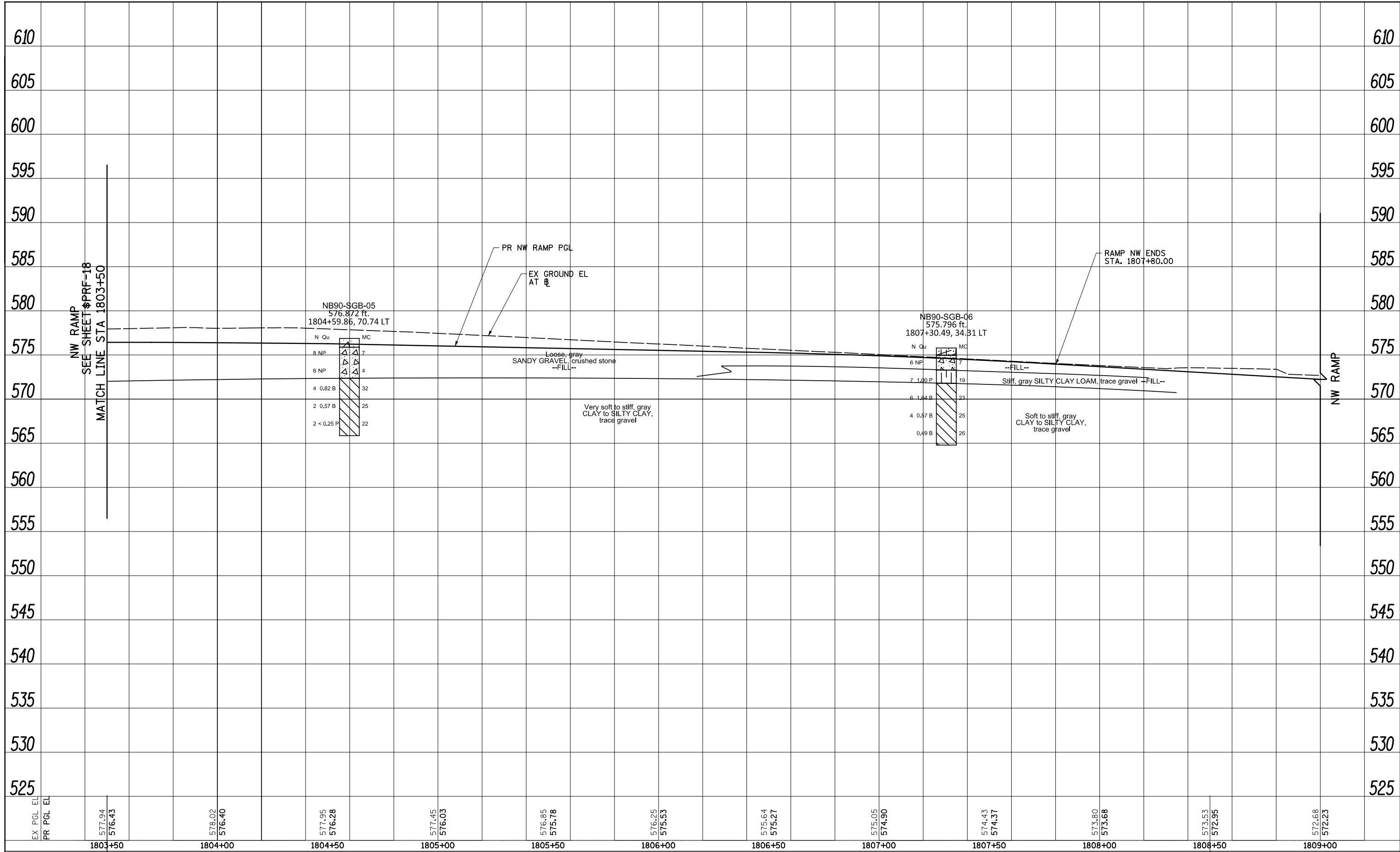
**ROADWAY PROFILE
NW RAMP**

SCALE: 1"=20' SHEET \$PRF-18F \$PRF-19 SHEETS STA. 1799+15.31 TO STA. 1803+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT \$PRF-18	
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	CAD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATIONS		
	CHFD		
	NO.		



FILE PATH = \$FILEL\$



FILES	DESIGNED - \$PRF-01-DE	REVISED -
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PLOT SCALE = \$SCALE*	CHECKED - \$PRF-01-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

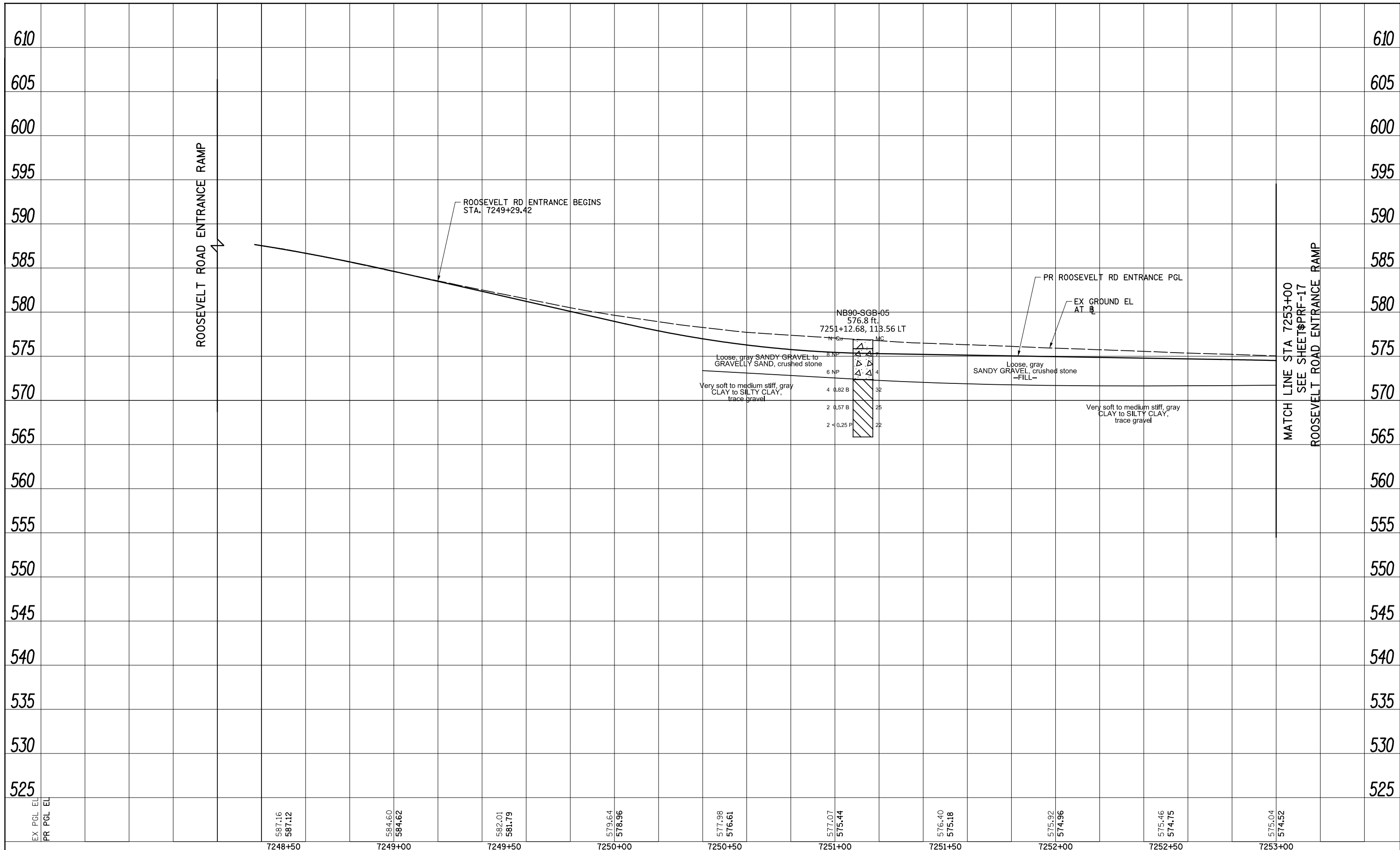
**ROADWAY PROFILE
NW RAMP**

SCALE: 1"=20' SHEET \$PRF-10F \$PRF-30SHEETS STA. 1803+50 TO STA. 1809+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-19
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	CAD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		



FILE PATH = \$FILEL\$



\$FILES*	DESIGNED - \$PRF-01-DE	REVISED -
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PLOT SCALE = \$SCALE*	CHECKED - \$PRF-01-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

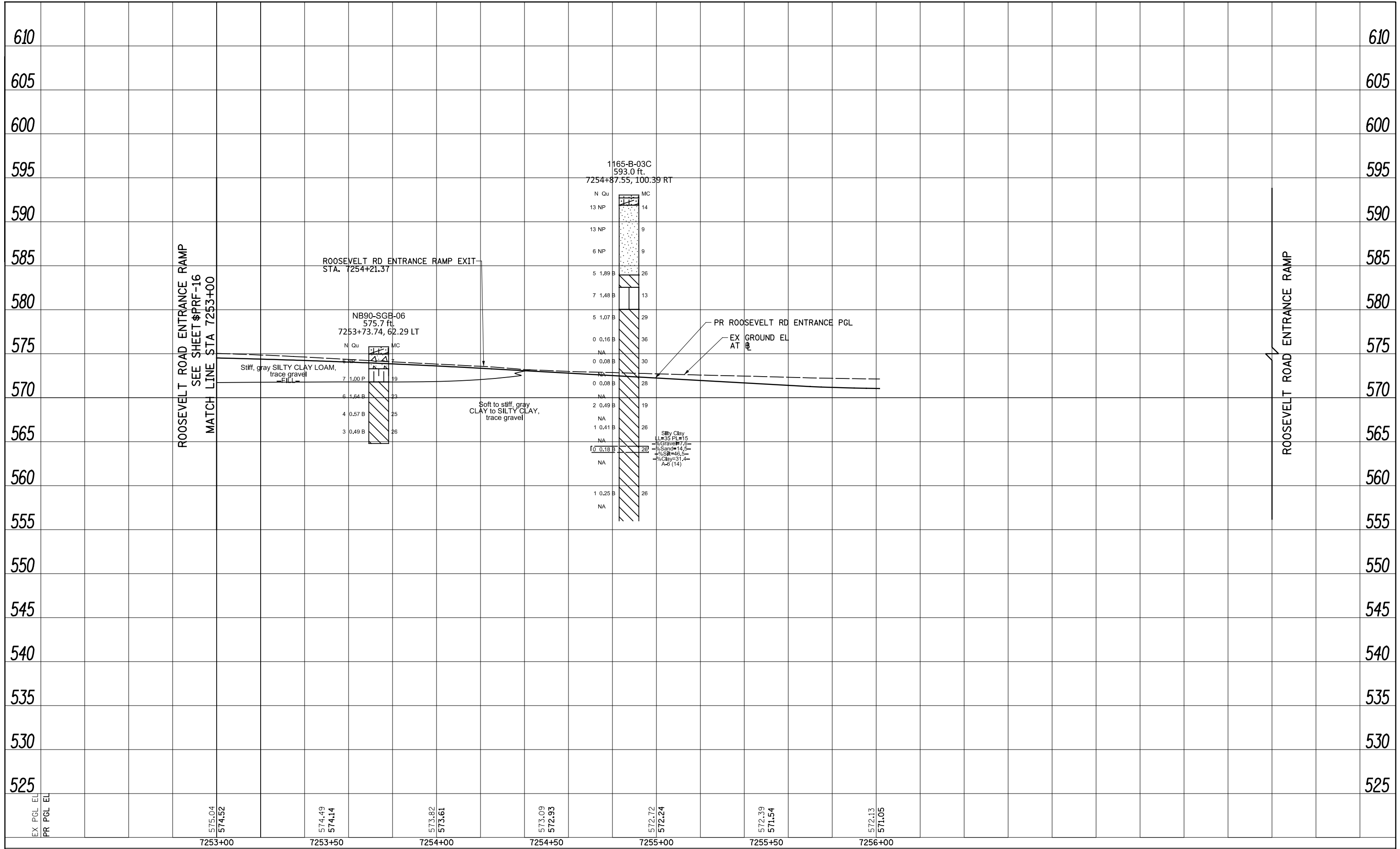
**ROADWAY PROFILE
ROOSEVELT ROAD ENTRANCE RAMP**

SCALE: 1"=20' SHEET \$PRF-16F \$PRF-30SHEETS STA. 7247+55 TO STA. 7253+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-16
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	CAD FILE NAME		
NOTE BOOK NO.			

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
NOTE BOOK NO.			
	NOT AT THIS OFFICE		



FILE PATH = \$FILEL\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

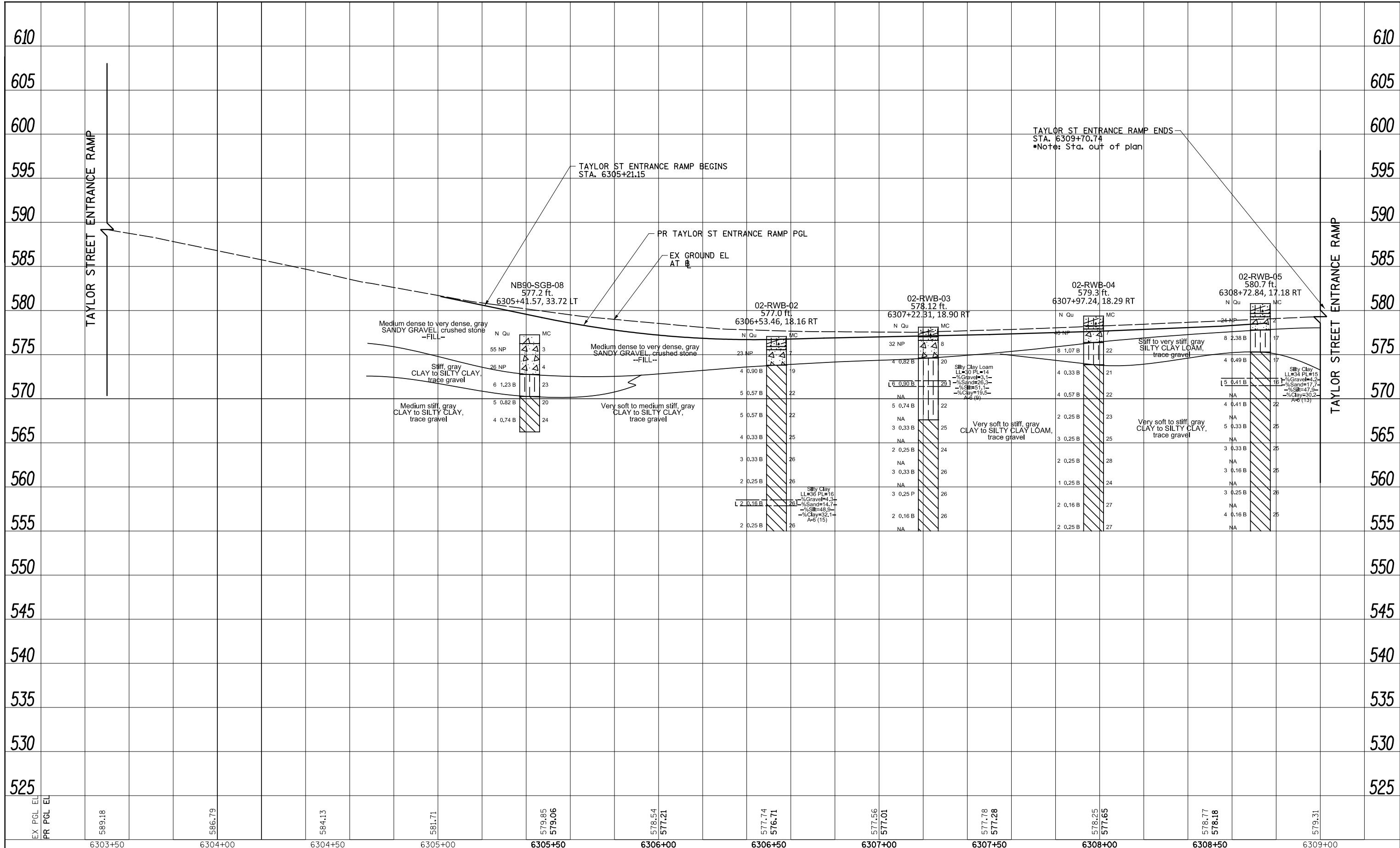
**ROADWAY PROFILE
ROOSEVELT ROAD ENTRANCE RAMP**

SCALE: 1"=20' SHEET \$PRF-10F \$PRF-30SHEETS STA. 7253+00 TO STA. 7256+01.49

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-17
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	FILED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



FILE PATH = \$FILEL\$



#FILES*	DESIGNED - \$PRF-01-DE	REVISED -
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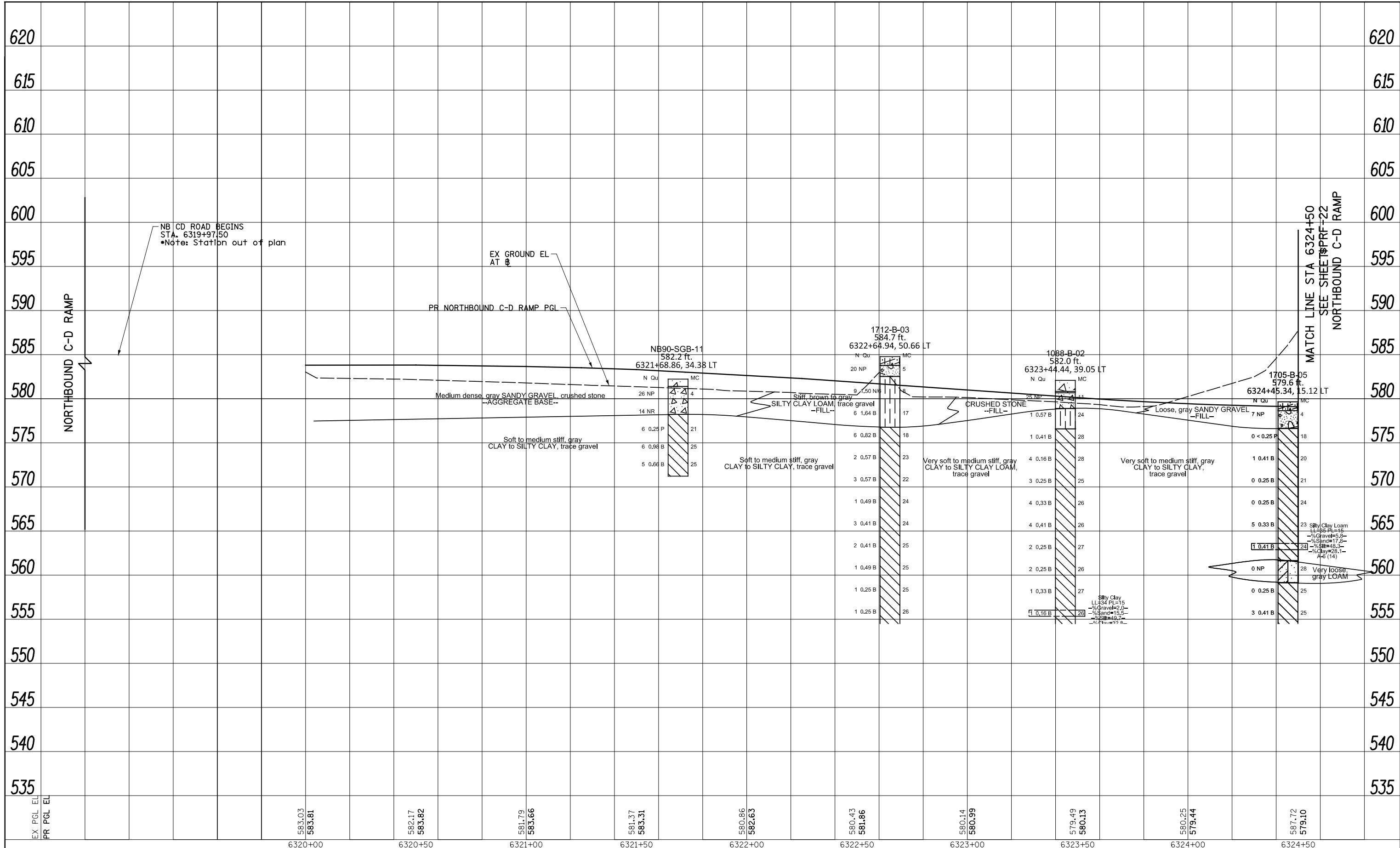
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE	
TAYLOR STREET ENTRANCE RAMP	
SCALE: 1"=20'	SHEET \$PRF-20F \$PRF-30SHEETS STA. 6303+50 TO STA. 6309+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-20
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	STRUCTURE	
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FILE PATH = \$FILEL\$

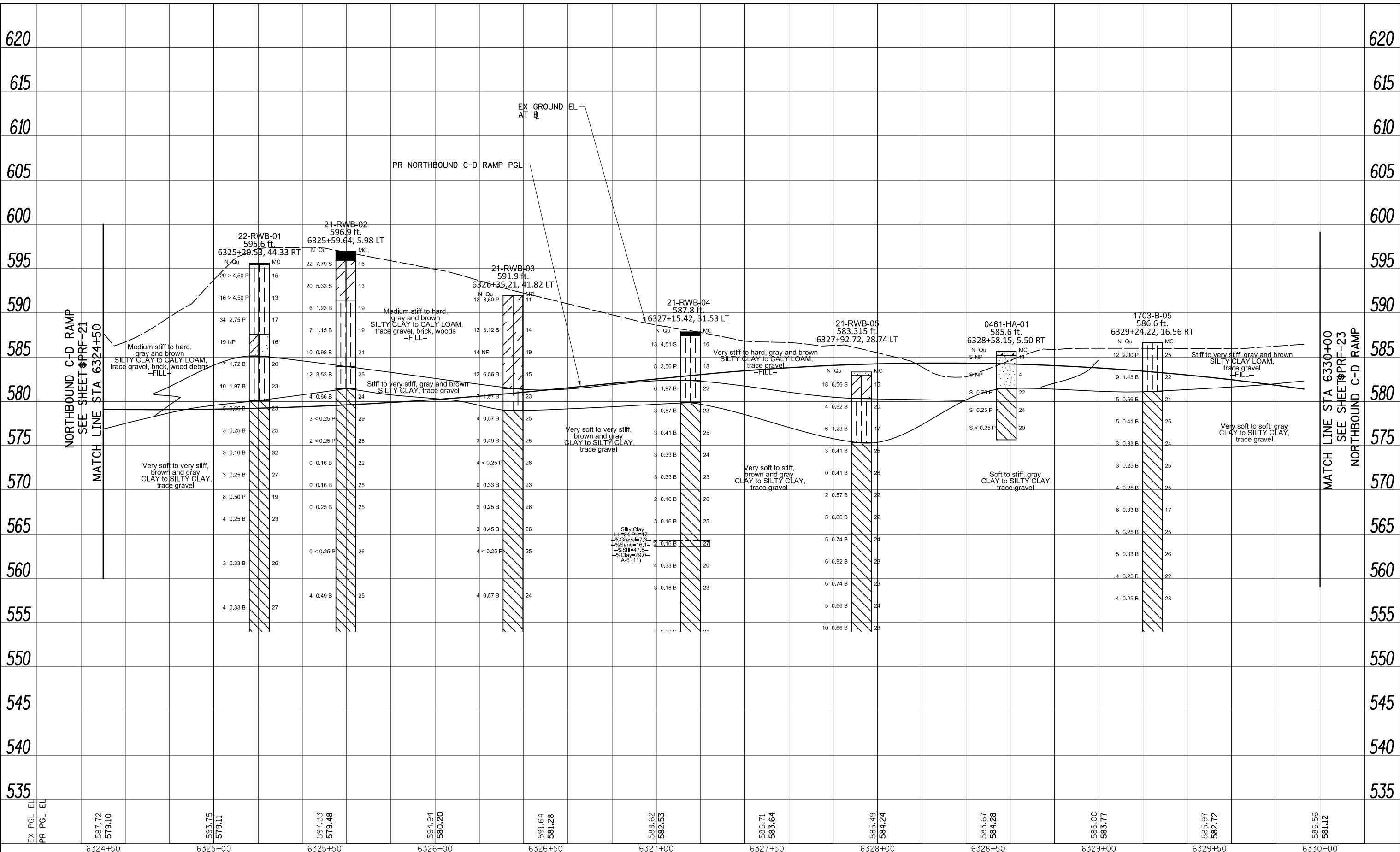


DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE NORTHBOUND C-D RAMP	
SCALE: 1"=20'	SHEET \$PRF-20F \$PRF-30SHEETS STA. 6319+00 TO STA. 6324+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-21
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	FILED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



#FILES*	DESIGNED - \$PRF-01-DE	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

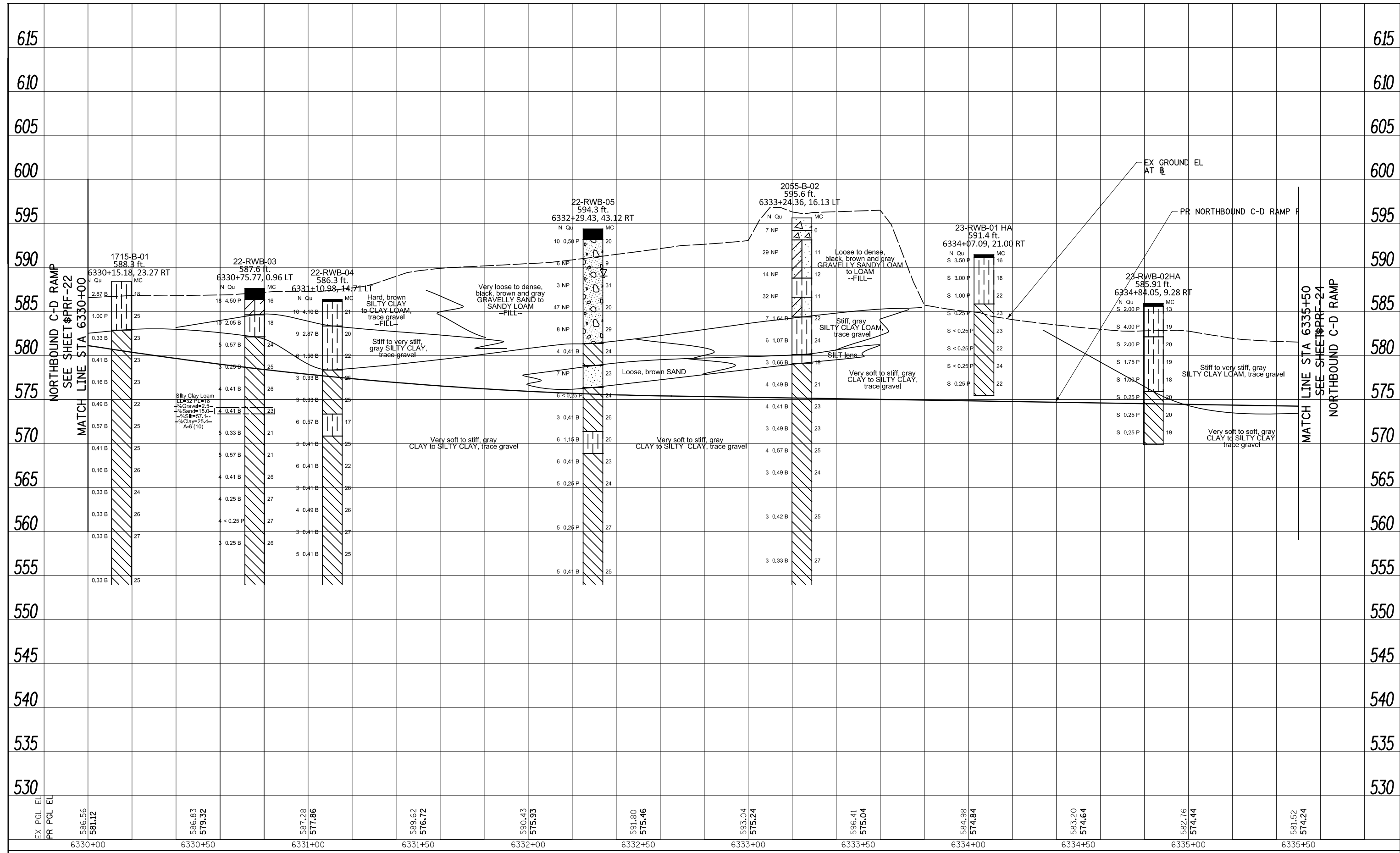
ROADWAY PROFILE	
NORTHBOUND C-D RAMP	
SCALE: 1"=20'	SHEET \$PRF-22F \$PRF-23EETS
STA. 6324+50	TO STA. 6330+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-22
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

FILE PATH = \$FILEL\$

PLAN	SURVEYED	CHECKED
	PLOTTED	ALIGNED
	NOTE BOOK	FILE NAME
		NO.
		DATE
		BY

PROFILE	SURVEYED	CHECKED
	PLOTTED	GRADES
	NOTE BOOK	STRUCTURE
		NOTATIONS
		CHFD
		DATE
		BY



FILE PATH = \$FILEL\$



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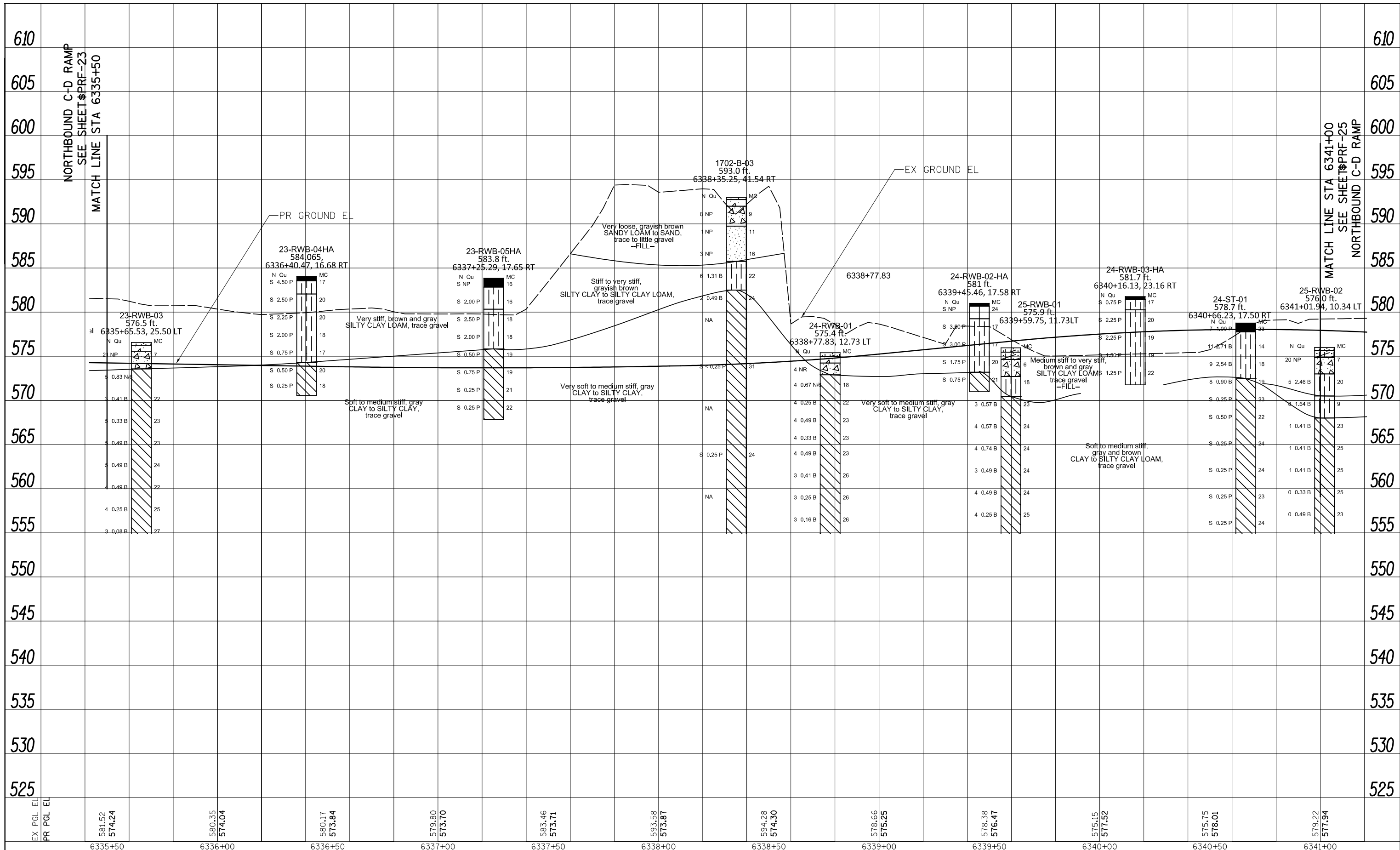
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE	
NORTHBOUND C-D RAMP	
SCALE: 1"=20'	SHEET \$PRF-20F \$PRF-30SHEETS
STA. 6330+00	TO STA. 6335+50

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-23
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	CADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		



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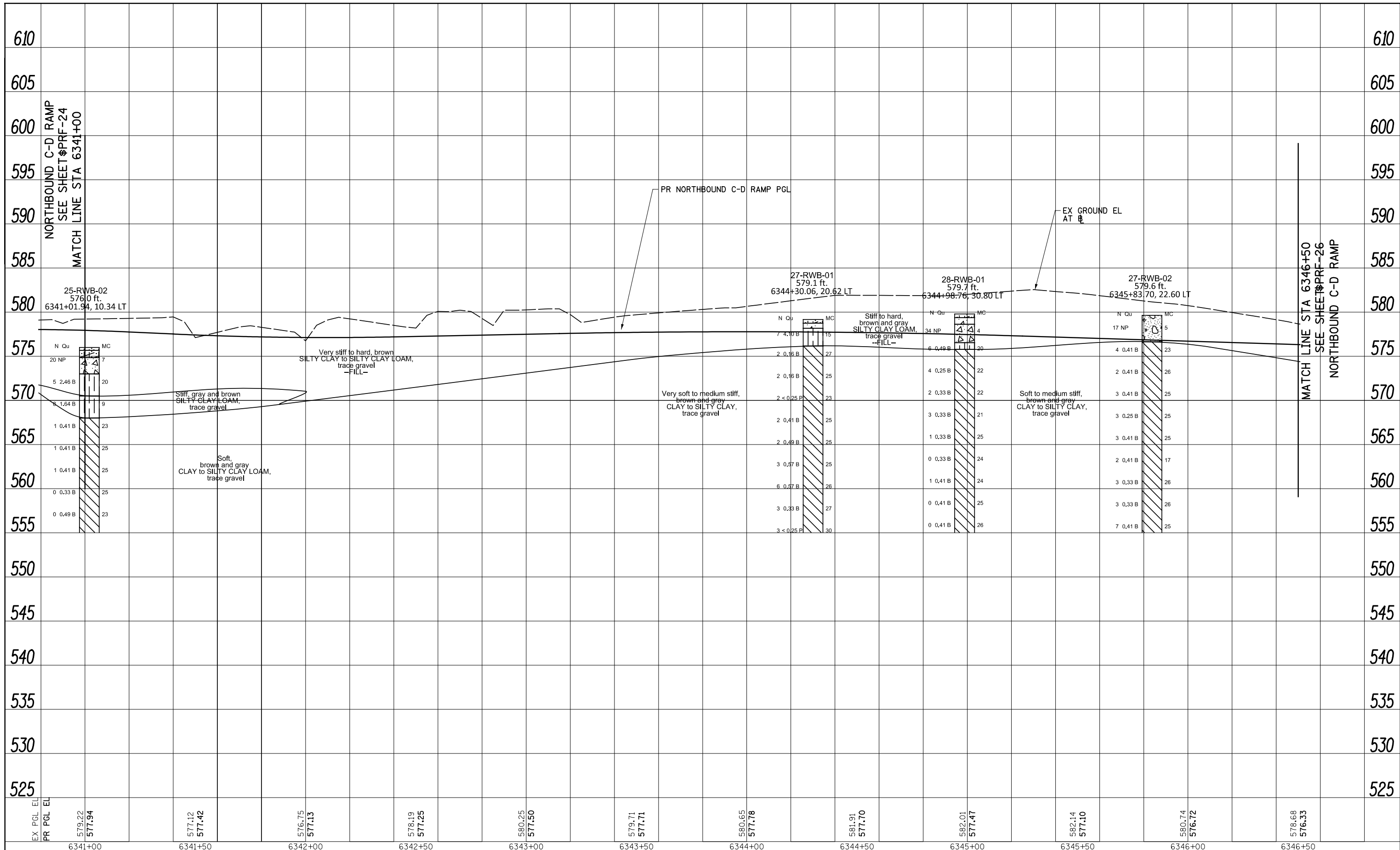
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
NORTHBOUND C-D RAMP
SCALE: 1"=20'
SHEET #PRF-20F #PRF-20EETS STA. 6335+50 TO STA. 6341+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	#TOT	#PRF-24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	
	FILE NAME	



FILE PATH = \$FILE\$



FILES*	DESIGNED - \$PRF-01-DE	REVISED -
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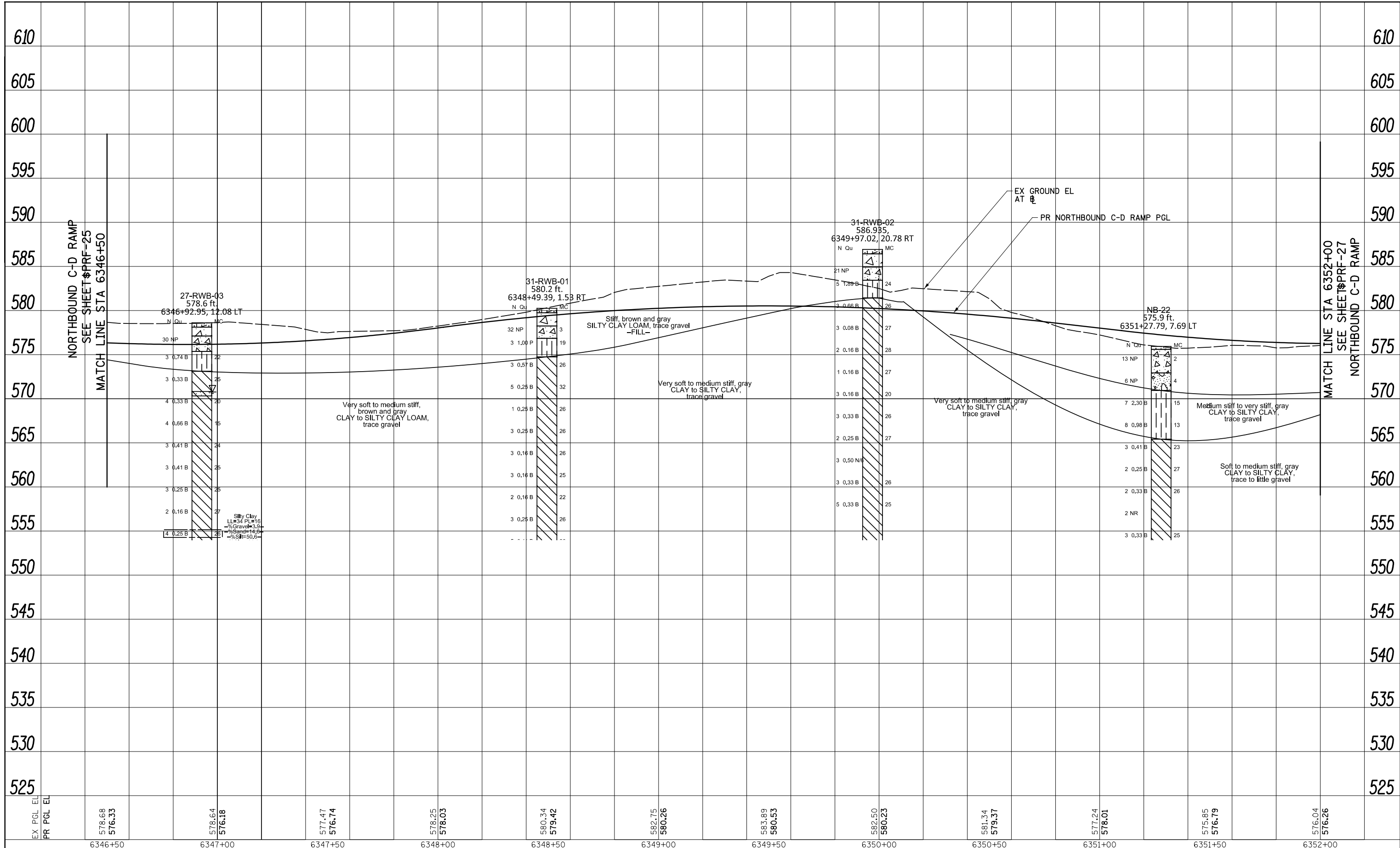
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE	
NORTHBOUND C-D RAMP	
SCALE: 1"=20'	SHEET \$PRF-23F \$PRF-30SHEETS
STA. 6341+00	TO STA. 6346+50

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNMENT		
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	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO. _____		



FILE PATH = \$FILEL\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

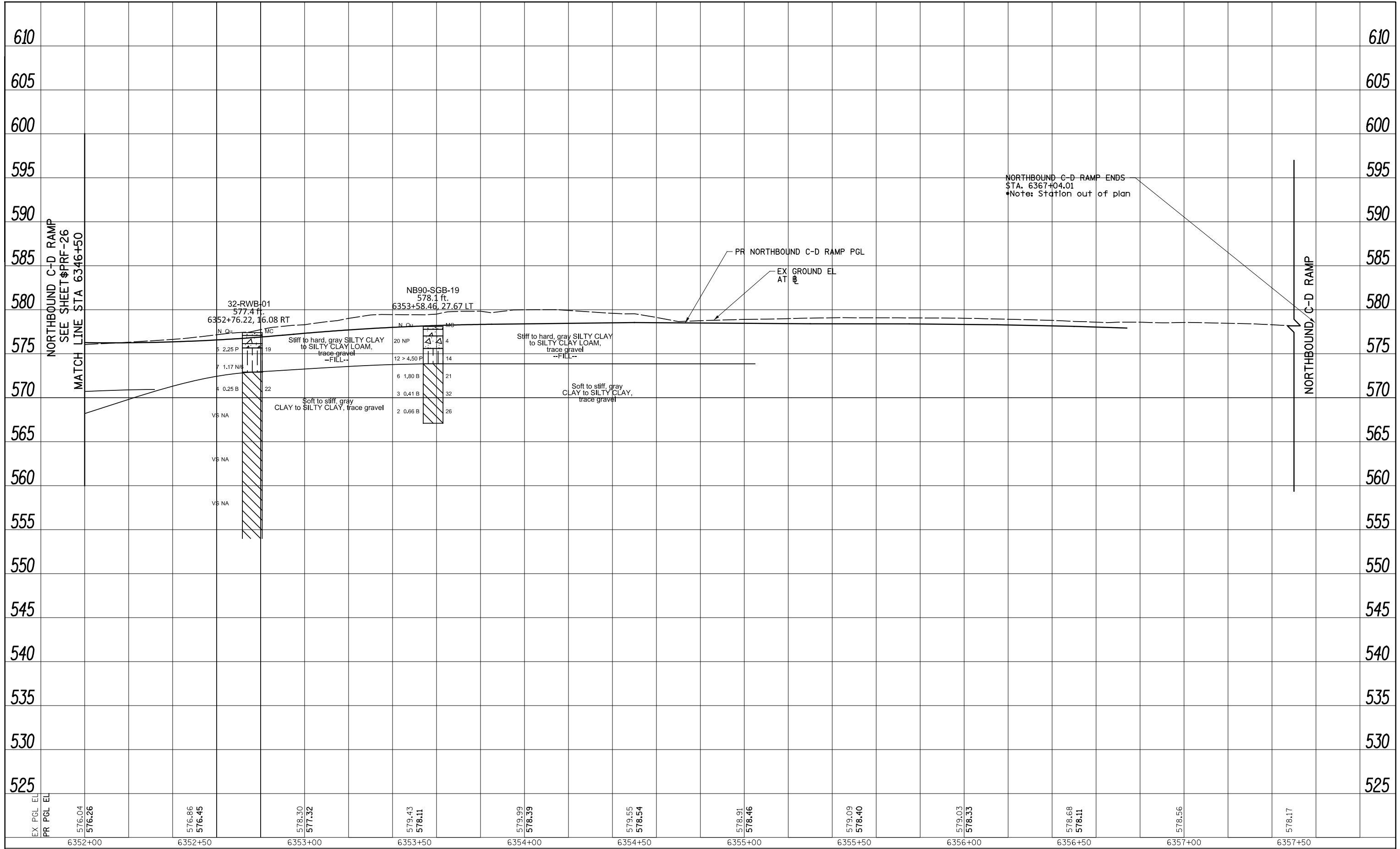
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE	
NORTHBOUND C-D RAMP	
SCALE: 1"=20'	SHEET \$PRF-20F \$PRF-30 SHEETS
STA. 6346+50	TO STA. 6352+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-26
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	FILED		
NOTE BOOK NO.	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
NOTE BOOK NO.	NOTATION CHKD		



FILE PATH = \$FILE\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

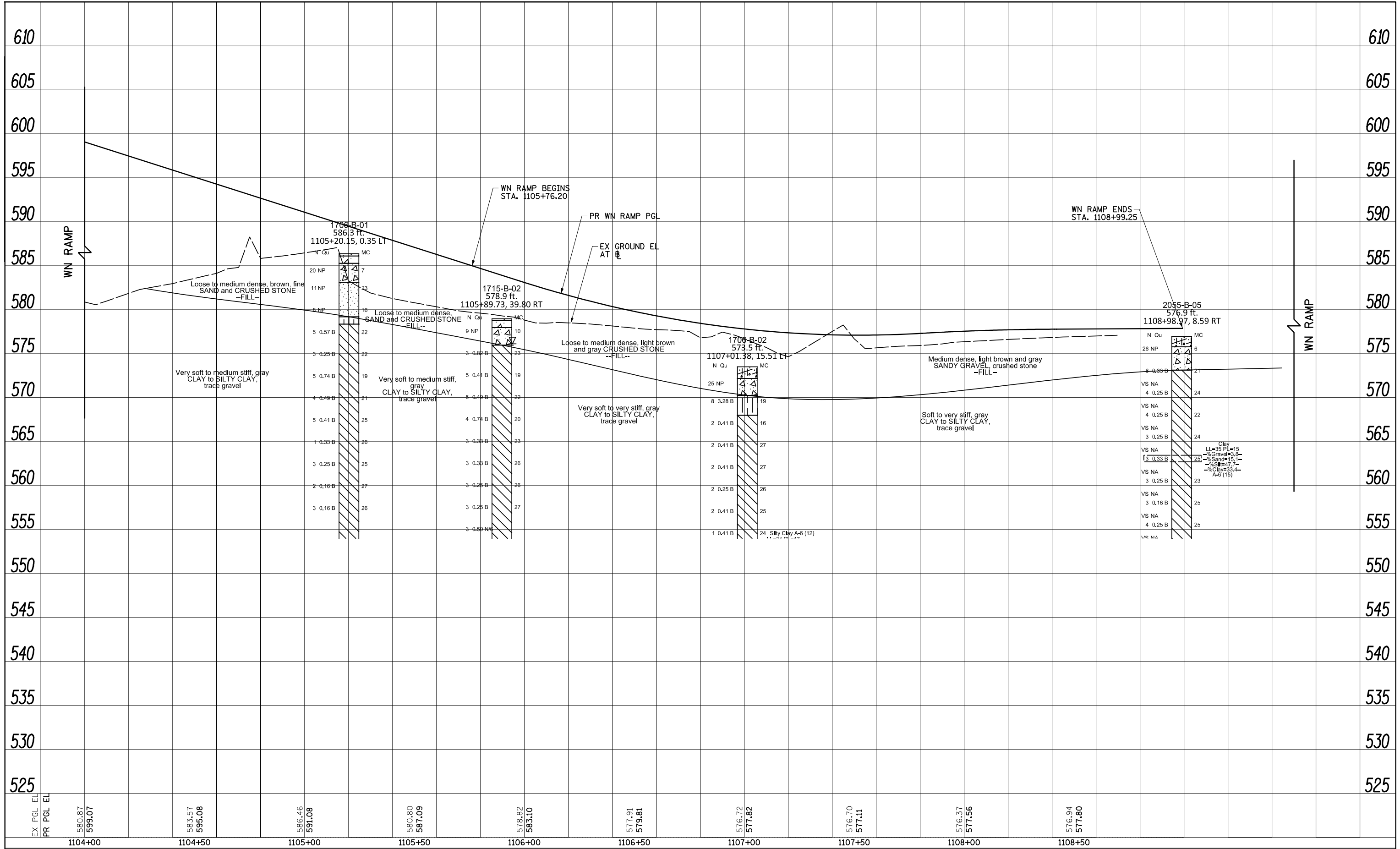
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE	
NORTHBOUND C-D RAMP	
SCALE: 1"=20'	SHEET \$PRF-20F \$PRF-30SHEETS
STA. 6352+00	TO STA. 6357+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-27
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	MASSAGED	
	CADD FILE NAME	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



FILE PATH = \$FILEL\$



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PLOT SCALE = \$SCALE*	CHECKED - \$PRF-01-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

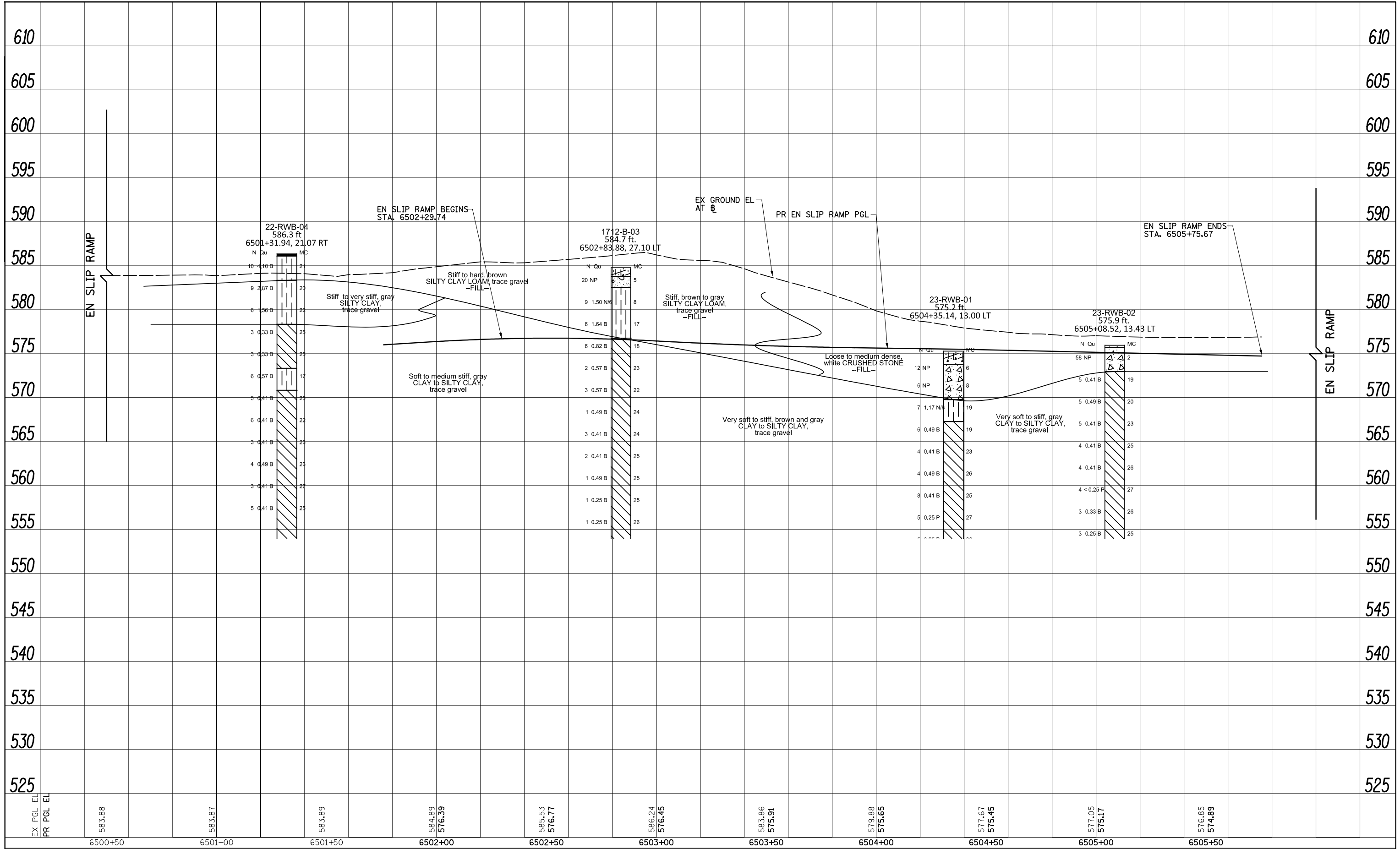
**ROADWAY PROFILE
WN RAMP**

SCALE: 1"=20' SHEET \$PRF-20F \$PRF-30EETS STA. 1104+00 TO STA. 1108+99.25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-28
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	FILED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHFD	
	NO.	



FILE PATH = \$FILEL\$



#FILES*	DESIGNED - \$PRF-01-DE	REVISED -
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PLOT SCALE = \$SCALE*	CHECKED - \$PRF-01-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

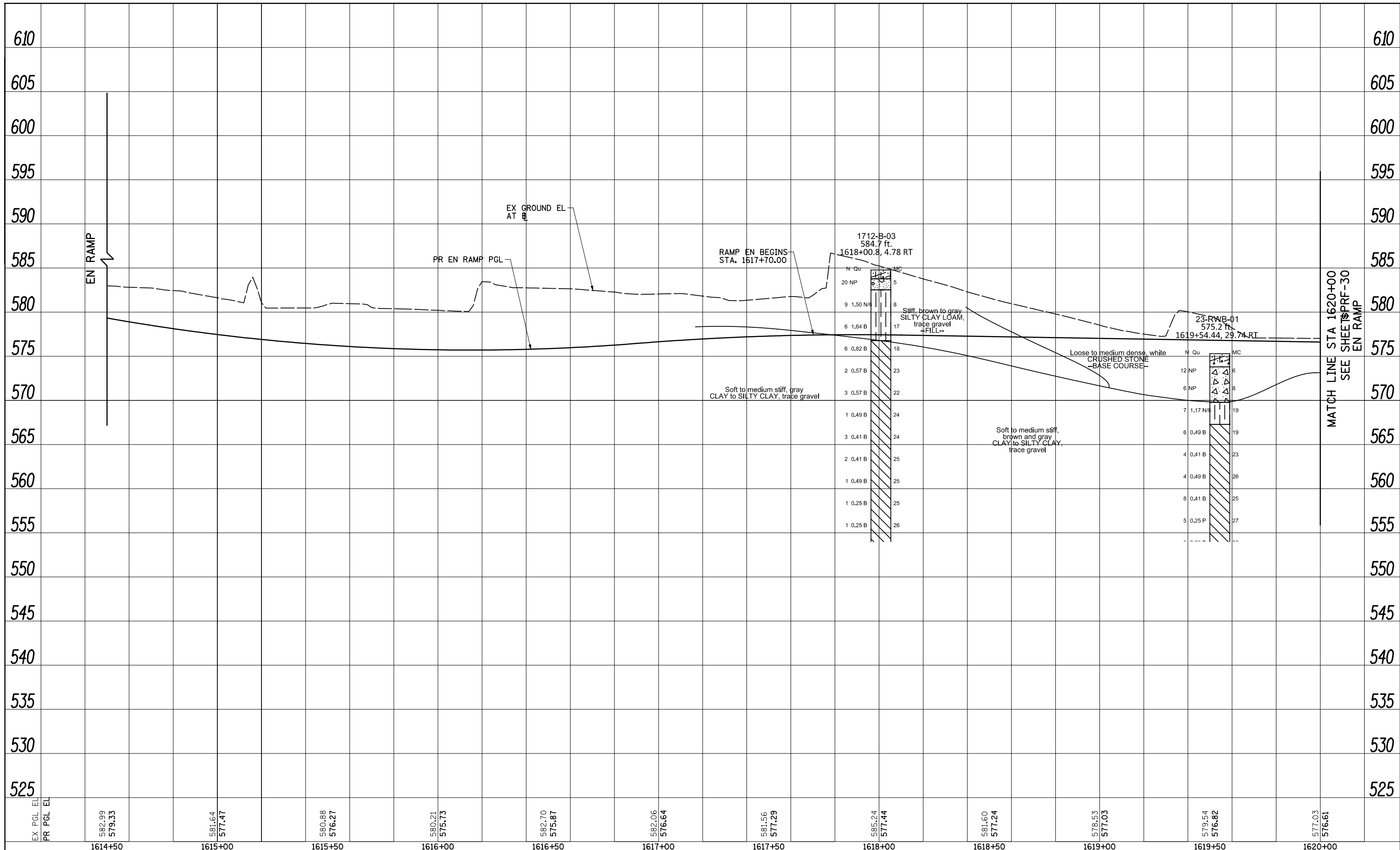
**ROADWAY PROFILE
EN SLIP RAMP**

SCALE: 1"=20' SHEET \$PRF-30F \$PRF-30EETS STA. 6500+50 TO STA. 6505+76.31

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-31
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	NOTATRS CHFD
	NO.	



FILE PATH = \$FILEL\$



FILES	DESIGNED - \$PRF-01-DE	REVISED -
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PLOT SCALE = \$SCALE*	CHECKED - \$PRF-01-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

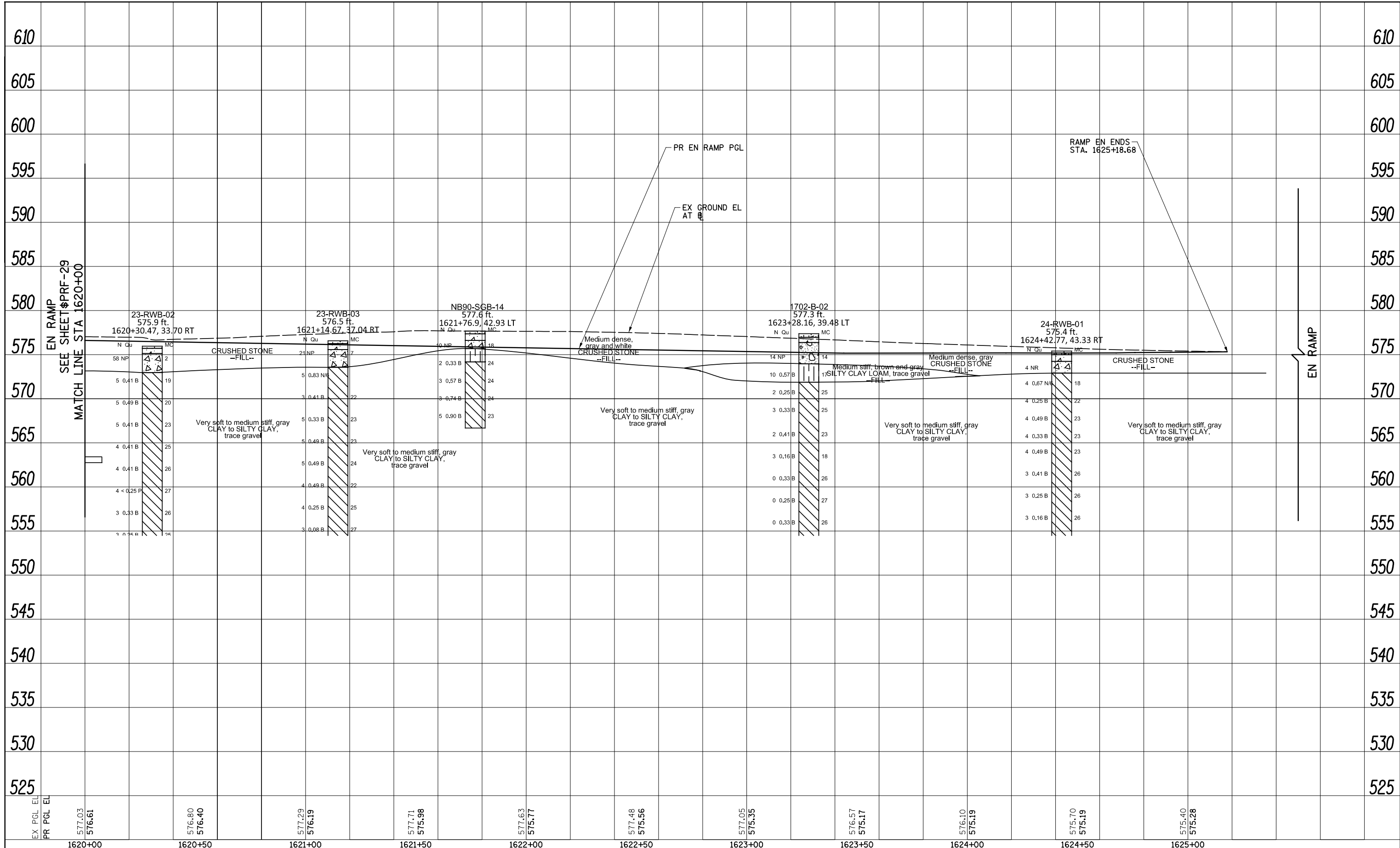
**ROADWAY PROFILE
EN RAMP**

SCALE: 1"=20' SHEET \$PRF-23F \$PRF-30 SHEETS STA. 1614+50 TO STA. 1620+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-23
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
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	NO. _____	
	FILE NAME	



FILE PATH = \$FILEL\$



#FILES*	DESIGNED - \$PRF-01-DE	REVISED -
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PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

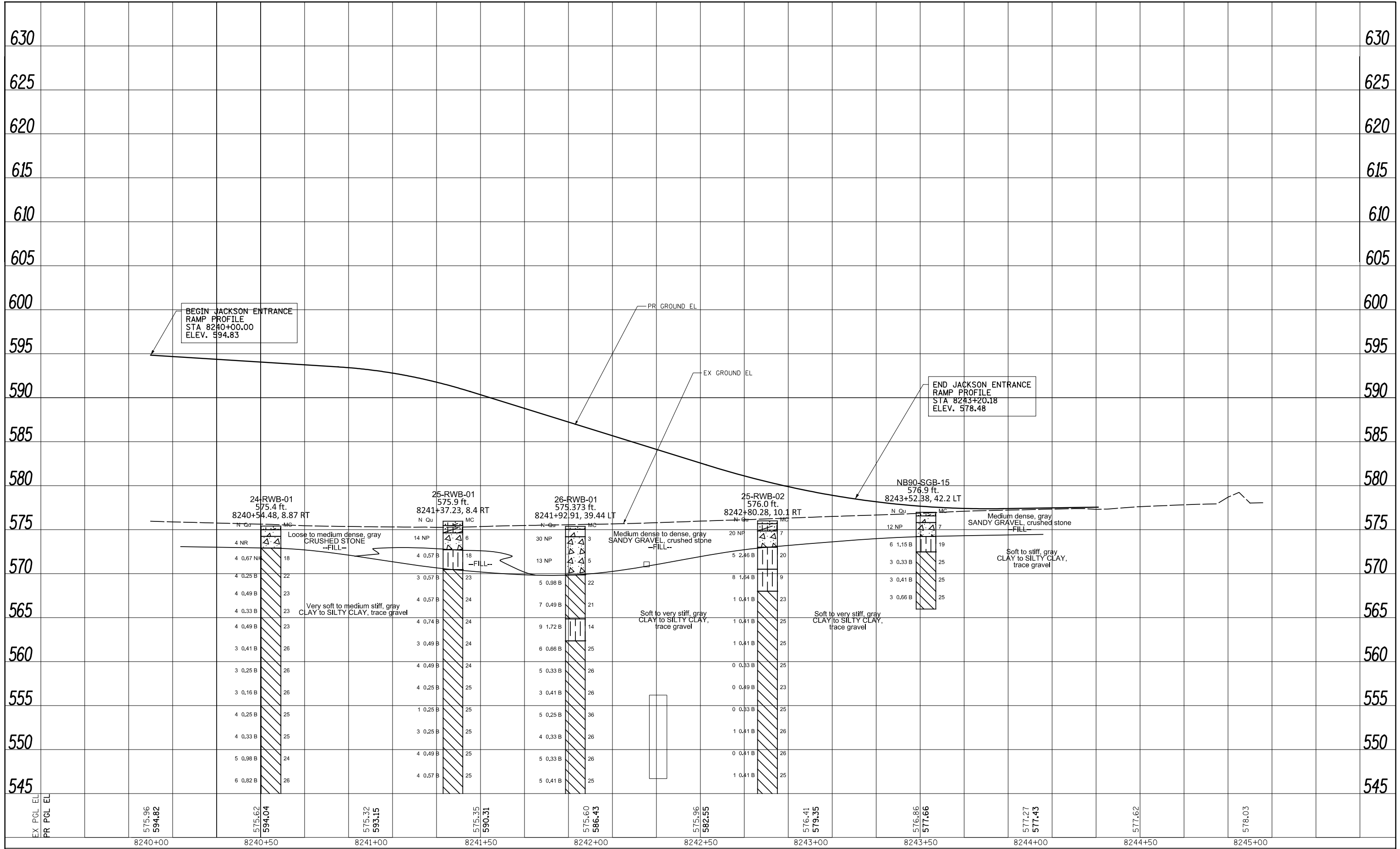
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE EN RAMP	
SCALE: 1"=20'	SHEET \$PRF-30F \$PRF-30EETS STA. 1620+00 TO STA. 1625+23.70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-30
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
NOTE BOOK NO.		
	NOT AT THIS OFFICE	



FILE PATH = \$FILEL\$



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USER NAME = \$USER*	DRAWN - \$PLN-04-DR	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - \$PLN-04-CH	REVISED -
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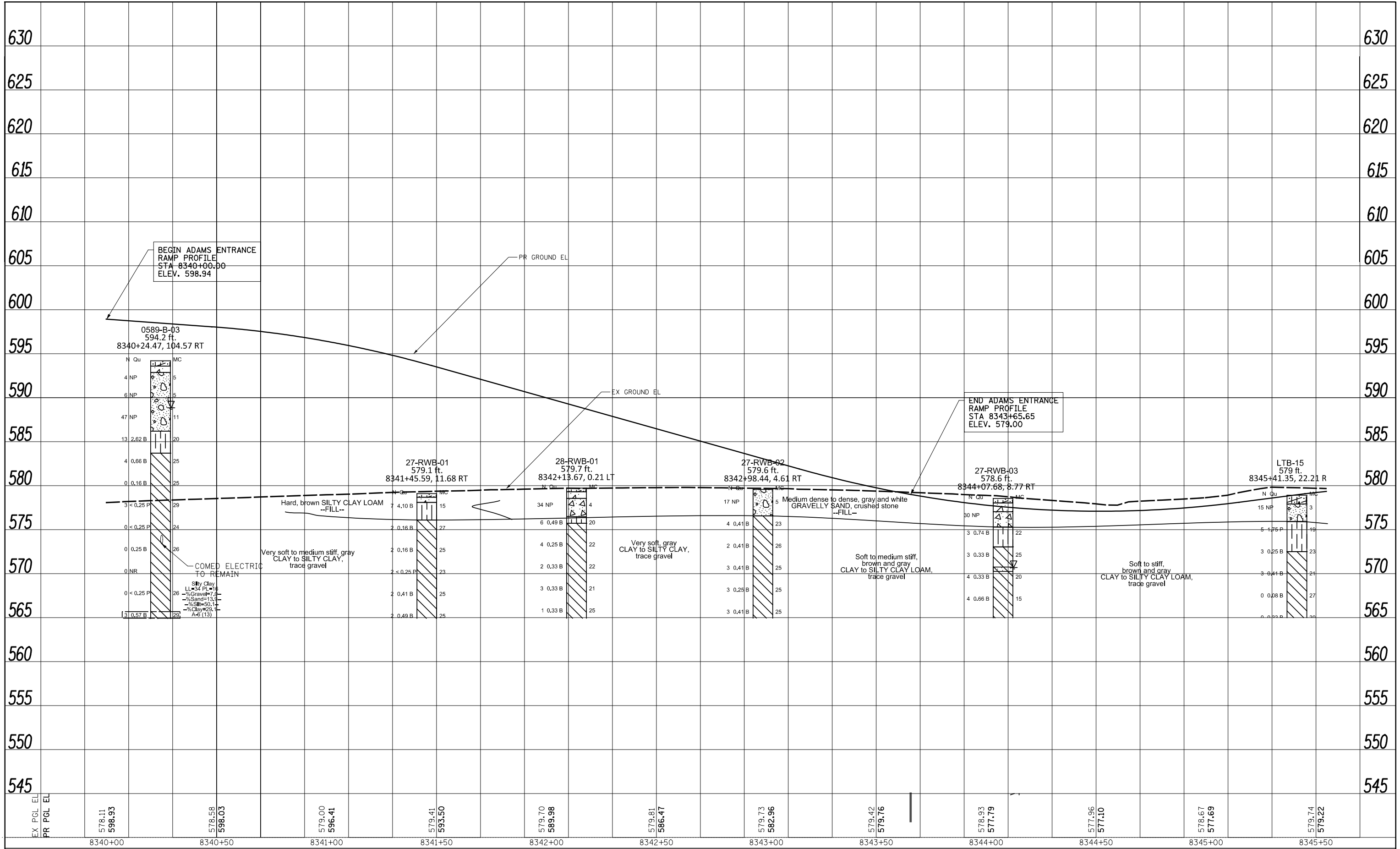
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE JACKSON ENTRANCE RAMP	
SCALE: HORIZ: 1/4"=20' VERT: 1/2"=5'	SHEET \$PLN-10\$ OF \$PLN-13\$ SHEETS STA.8240+00 TO STA.8245+10

F.A.I. RTE. 90/94/290	SECTION 2014-15R&B-R	COUNTY COOK	TOTAL SHEETS \$TOT \$PLN-19	SHEET NO. \$SHEET
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X94	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT	
	STRUCTURE	
	NOTATRS CHFD	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT	
	STRUCTURE	
	NOTATRS CHFD	
	NO.	



FILE PATH = \$FILE\$



#FILES*	DESIGNED - \$PLN-04-DE	REVISED -
USER NAME = \$USER*	DRAWN - \$PLN-04-DR	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - \$PLN-04-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

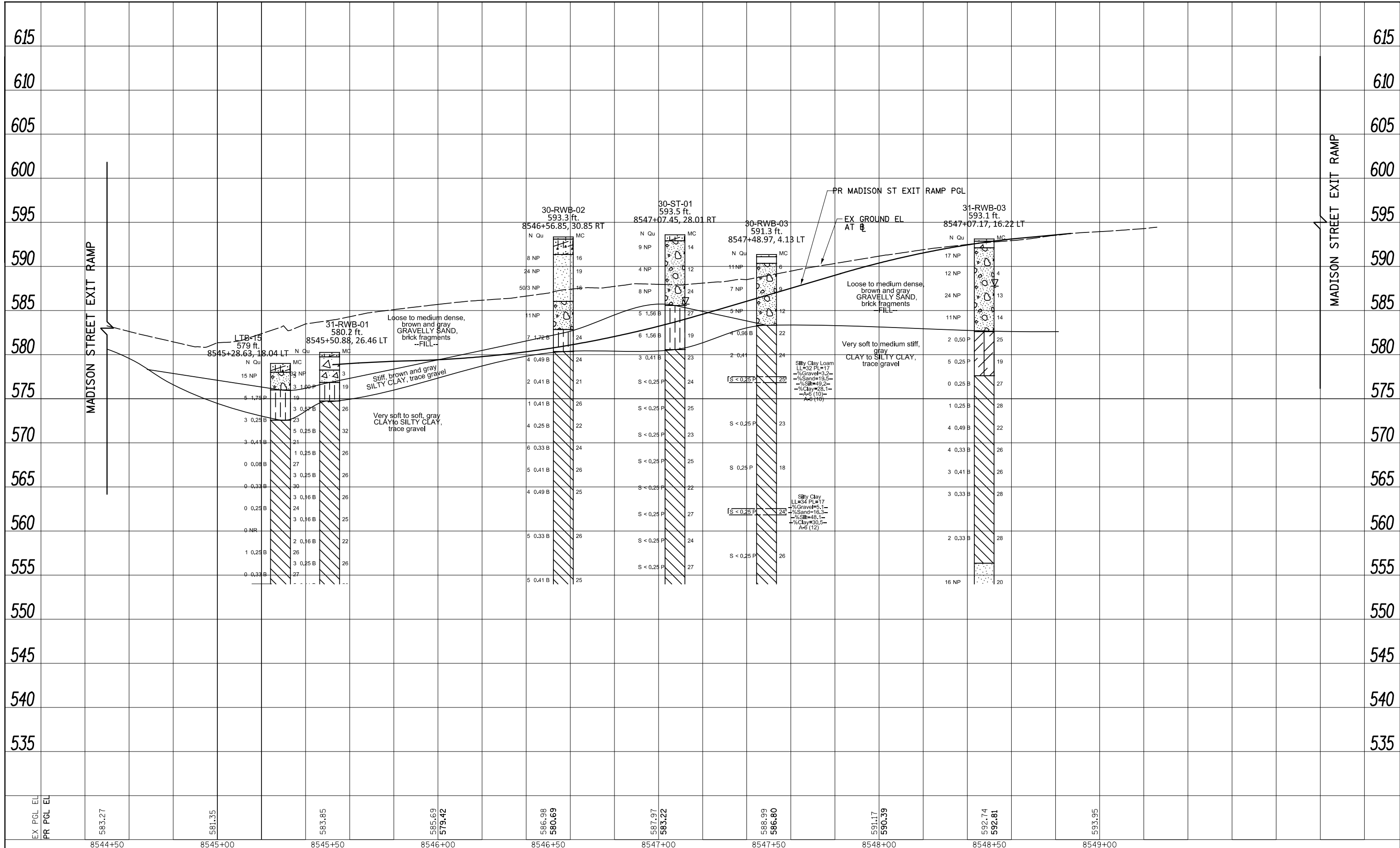
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE ADAMS ENTRANCE RAMP	
SCALE: HORIZ: 1"=20' VERT: 1"=5'	SHEET \$PLN-10F \$PLN-50EETS TO STA.8340+00 TO STA.8345+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	\$TOT	\$PLN-17
CONTRACT NO. 60X94			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



FILE PATH = \$FILEL\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

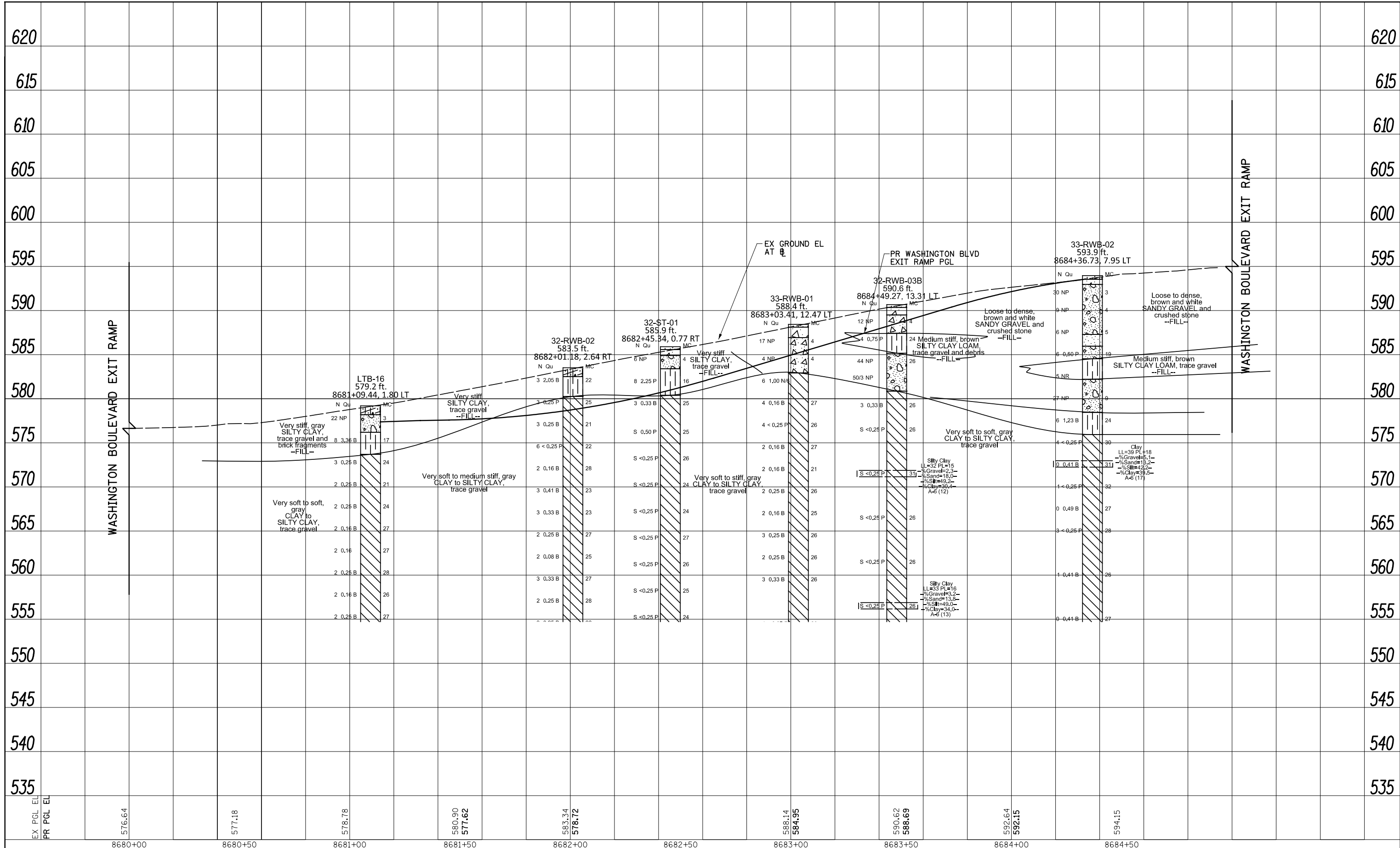
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE	
MADISON STREET EXIT RAMP	
SCALE: 1"=20'	SHEET \$PRF-30F \$PRF-30EETS
STA. 8545+50	TO STA. 8549+20.21

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-34
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	STRUCTURE	
	NOTATRS CHKD	
	NO.	



FILE PATH = \$FILE\$



DESIGNED - \$PRF-01-DE	REVISED -
DRAWN - \$PRF-01-DR	REVISED -
CHECKED - \$PRF-01-CH	REVISED -
DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

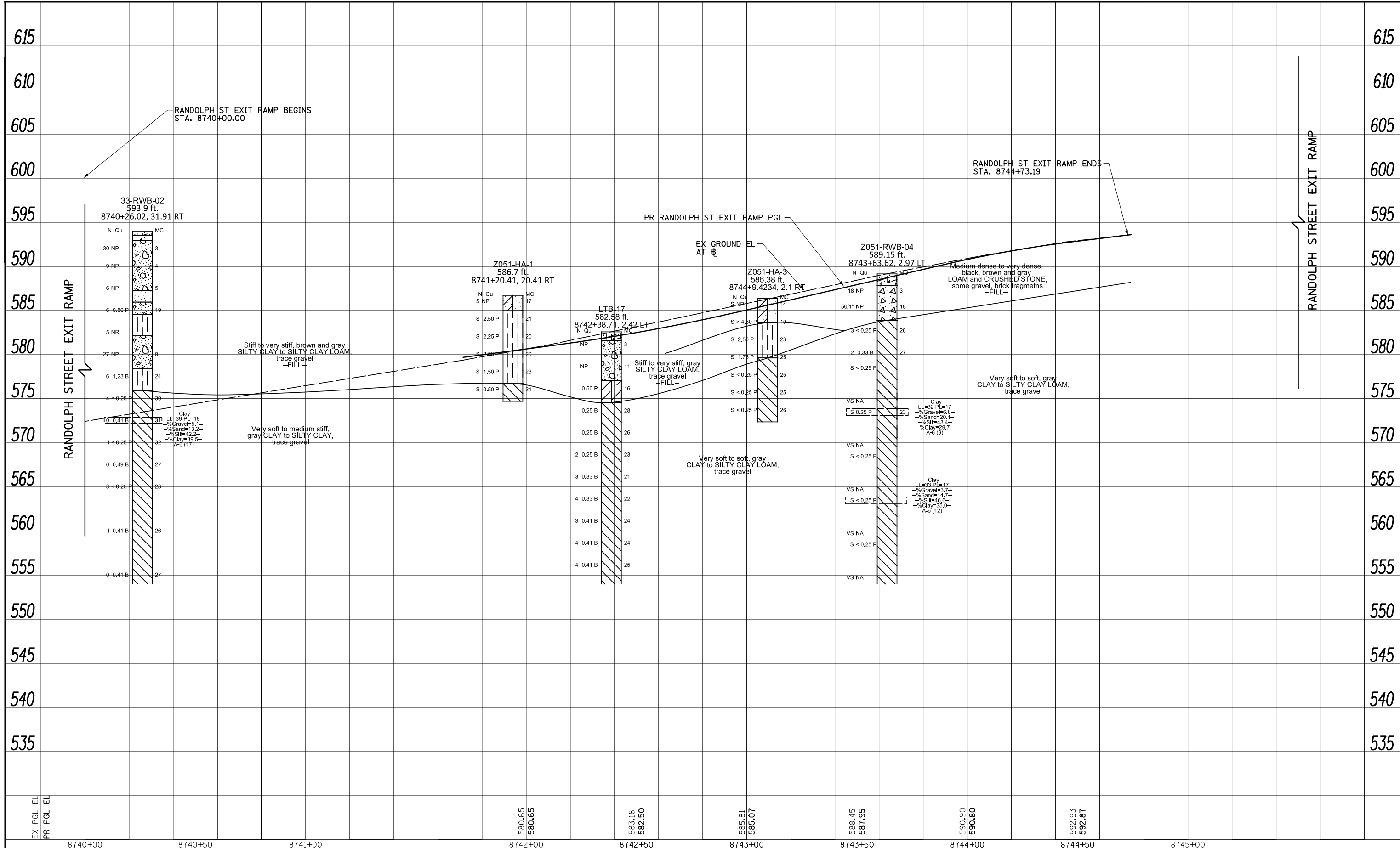
**ROADWAY PROFILE
WASHINGTON BOULEVARD EXIT RAMP**

SCALE: 1"=20' SHEET \$PRF-33F \$PRF-31 SHEETS STA. 8681+21.03 TO STA. 8684+33.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	FILED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



FILE PATH = \$FILEL\$



#FILES*	DESIGNED - \$PRF-01-DE	REVISED -
USER NAME = \$USER*	DRAWN - \$PRF-01-DR	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - \$PRF-01-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

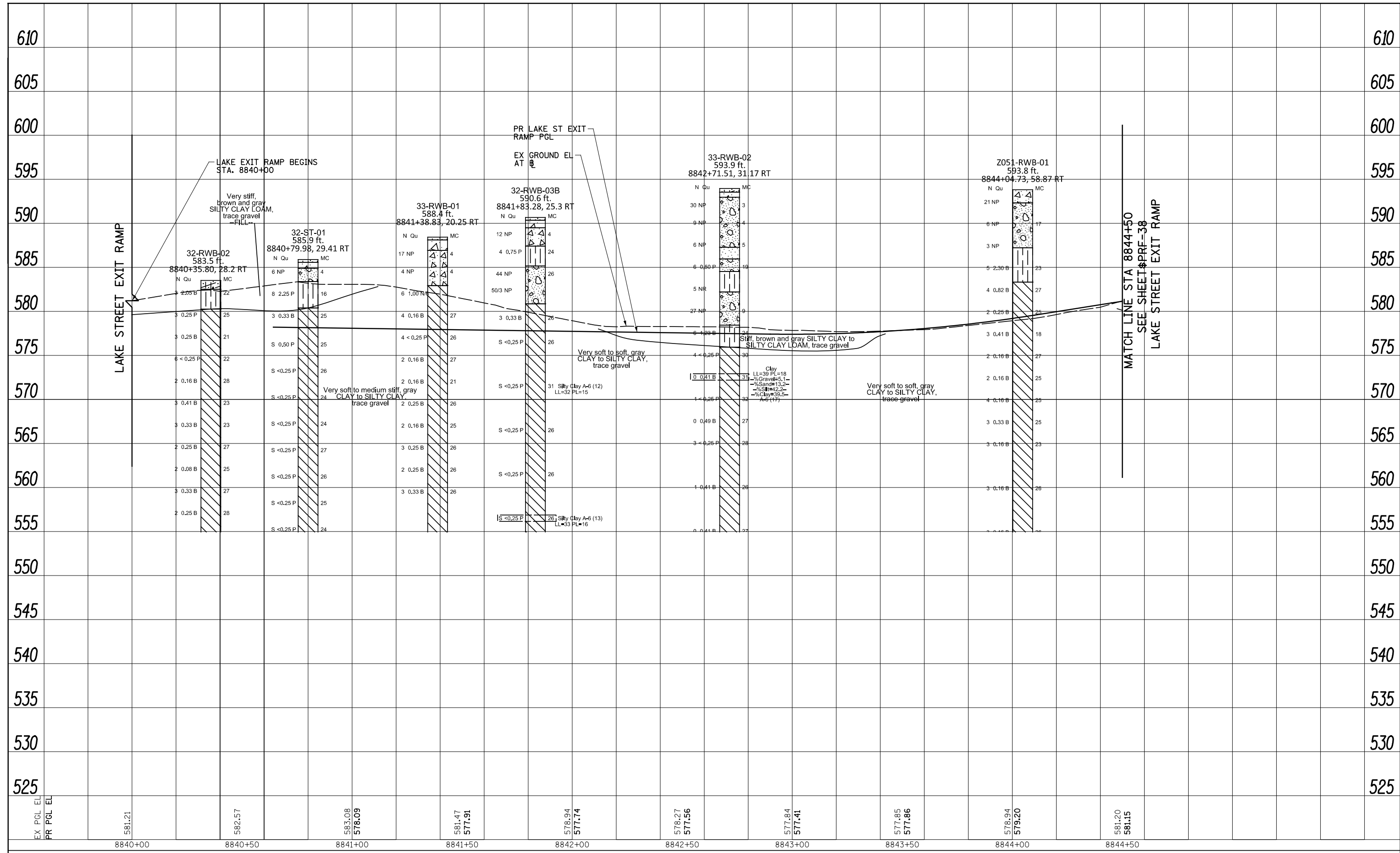
**ROADWAY PROFILE
RANDOLPH STREET EXIT RAMP**

SCALE: 1"=20' SHEET \$PRF-33F \$PRF-30EETS STA. 8741+80.26 TO STA. 8744+76.90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-36
			CONTRACT NO. 62A76	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NO. _____	



FILE PATH = \$FILEL\$

	DESIGNED - \$PRF-01-DE	REVISED -
	DRAWN - \$PRF-01-DR	REVISED -
	CHECKED - \$PRF-01-CH	REVISED -
	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

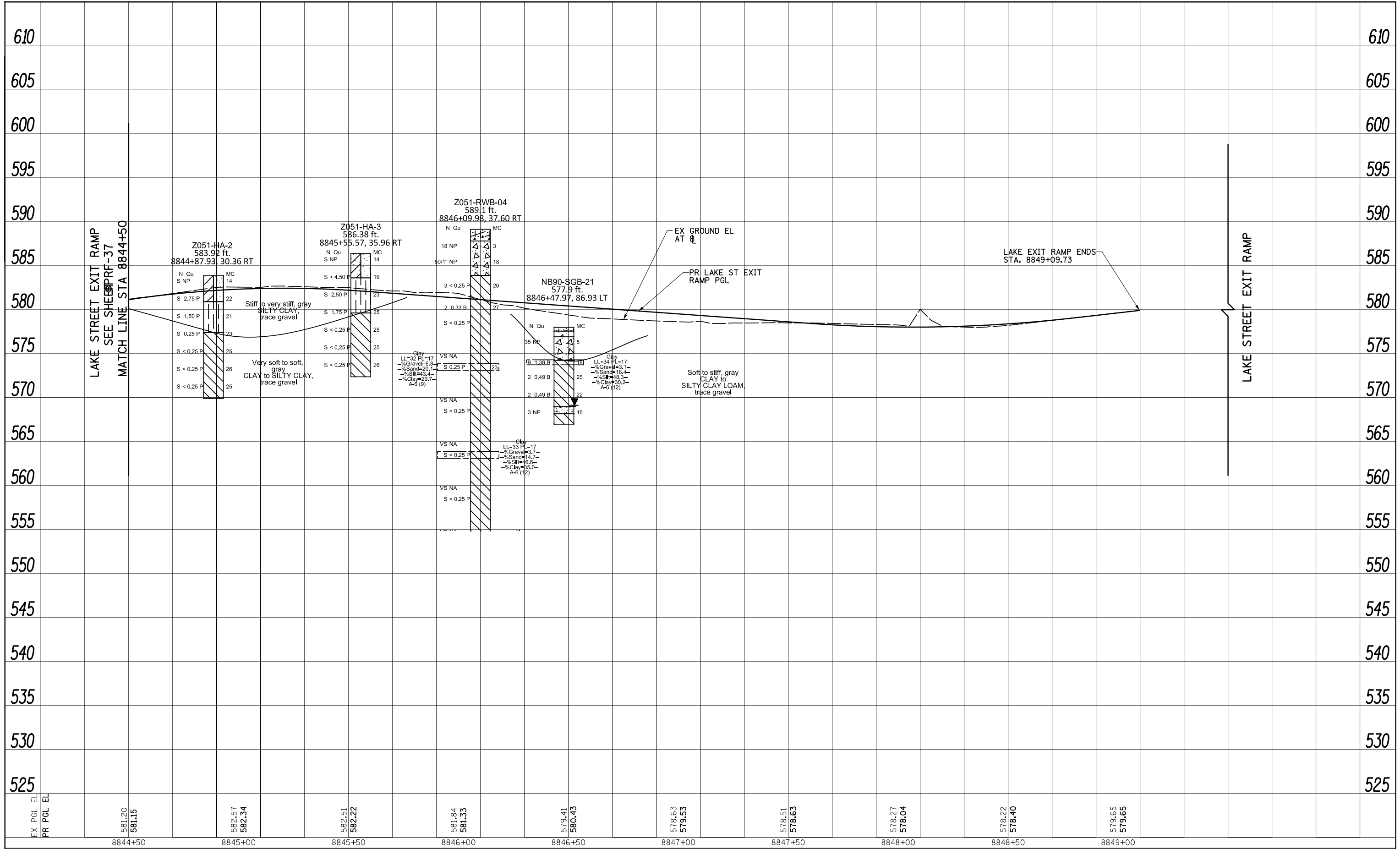
**ROADWAY PROFILE
LAKE STREET EXIT RAMP**

SCALE: 1"=20' SHEET \$PRF-30F \$PRF-30EETS STA. 8840+64.20 TO STA. 8844+50.00

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-37
			CONTRACT NO. 62A76	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNMENT	
	NO. _____	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATRS	
	CHKD	
	NO. _____	



FILE PATH = \$FILEL\$



FILES	DESIGNED - \$PRF-01-DE	REVISED -
USER NAME = \$USER*	DRAWN - \$PRF-01-DR	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - \$PRF-01-CH	REVISED -
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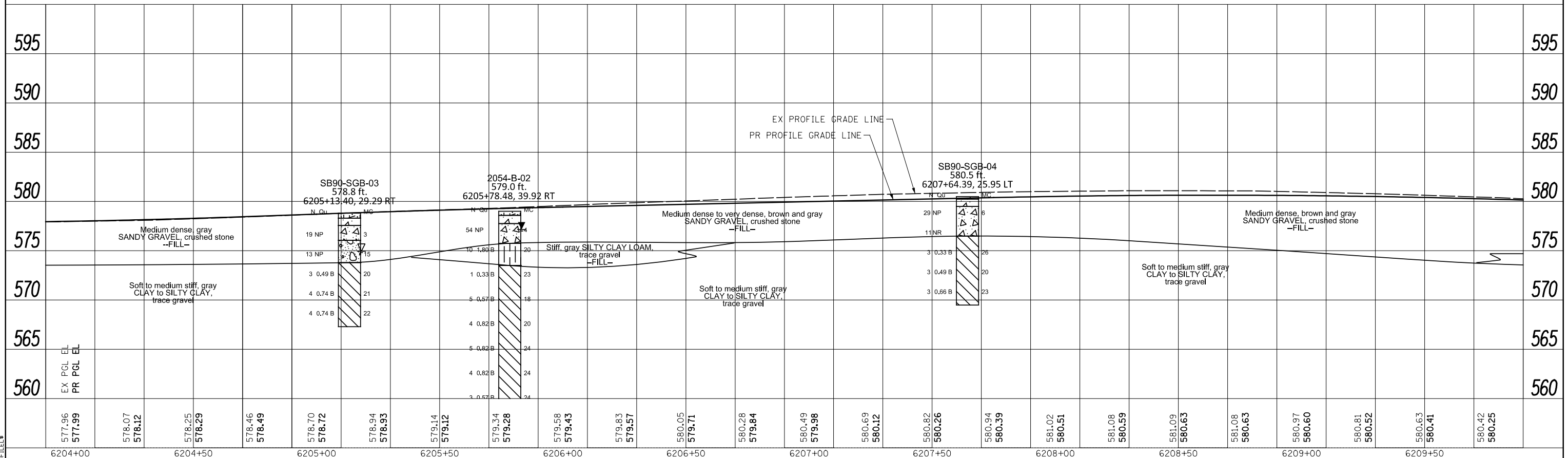
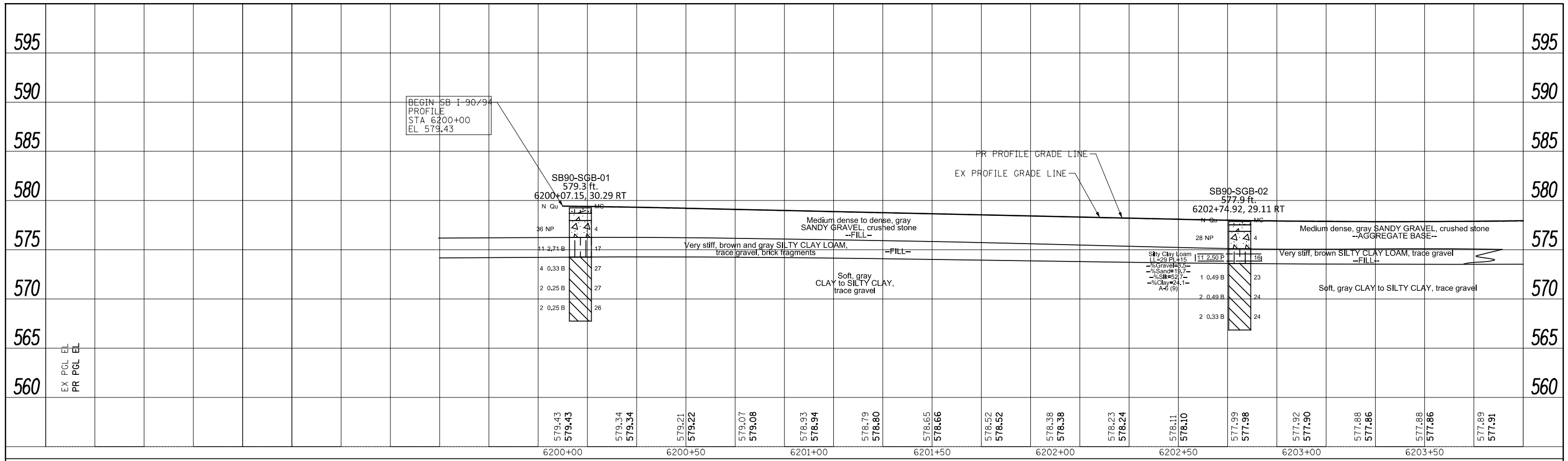
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PROFILE
LAKE STREET EXIT RAMP**

SCALE: 1"=20' SHEET \$PRF-33F \$PRF-30SHEETS STA. 8844+50.00 TO STA. 8849+09.73

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	\$TOT	\$PRF-38
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

- I-90/94 SB and Connecting Ramps



FILE PATH = #FILE#



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PLOT DATE = #DATE#

DESIGNED - SDH
DRAWN - OPS
CHECKED - MJE
DATE - #DATE

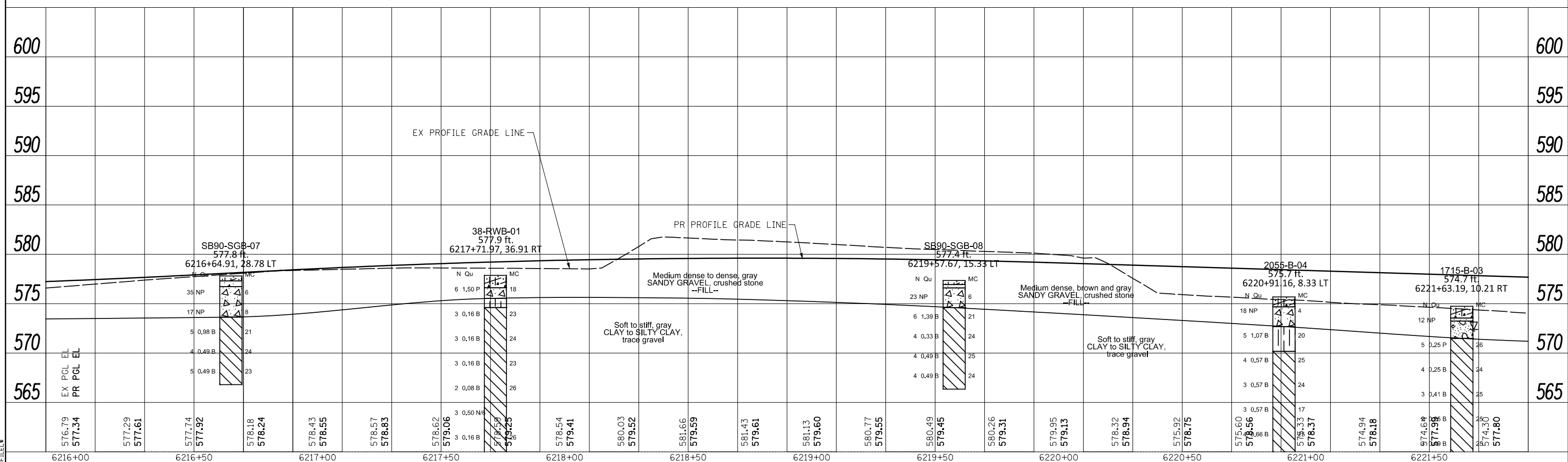
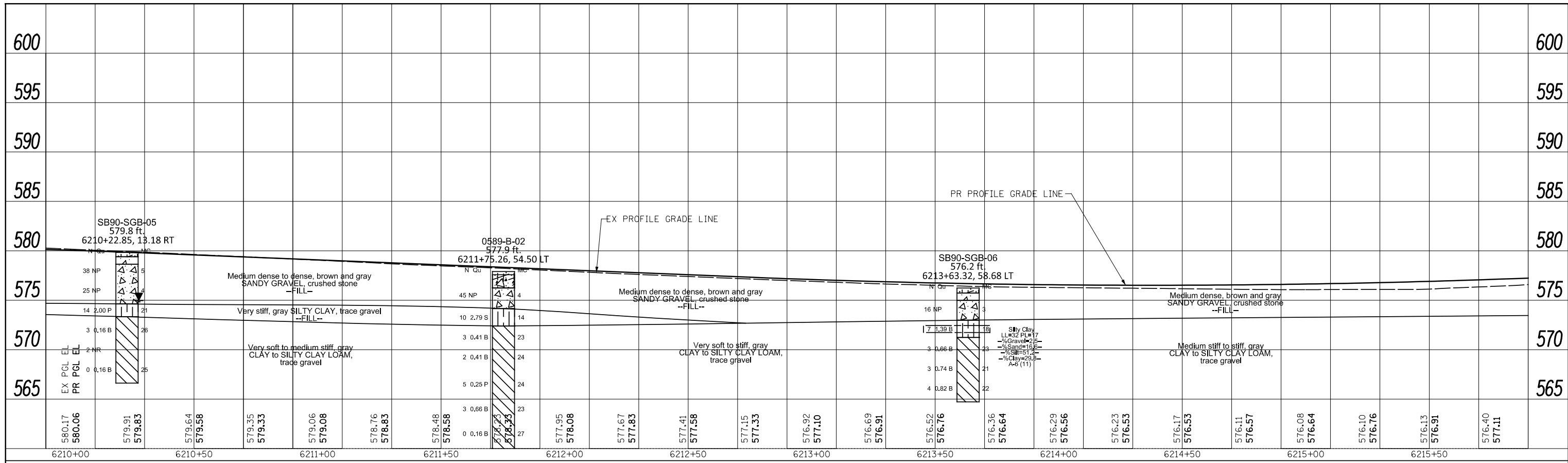
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
SB I-90/94

SCALE: 1"=20' SHEET 1 OF #PRFSHEETS STA. 6200+00.00 TO STA. 6209+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	#TOTAL	#PRF01
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A77	



FILE PATH = \$FILE\$



DESIGNED - SDH
 DRAWN - OPS
 CHECKED - MJE
 DATE - \$DATE

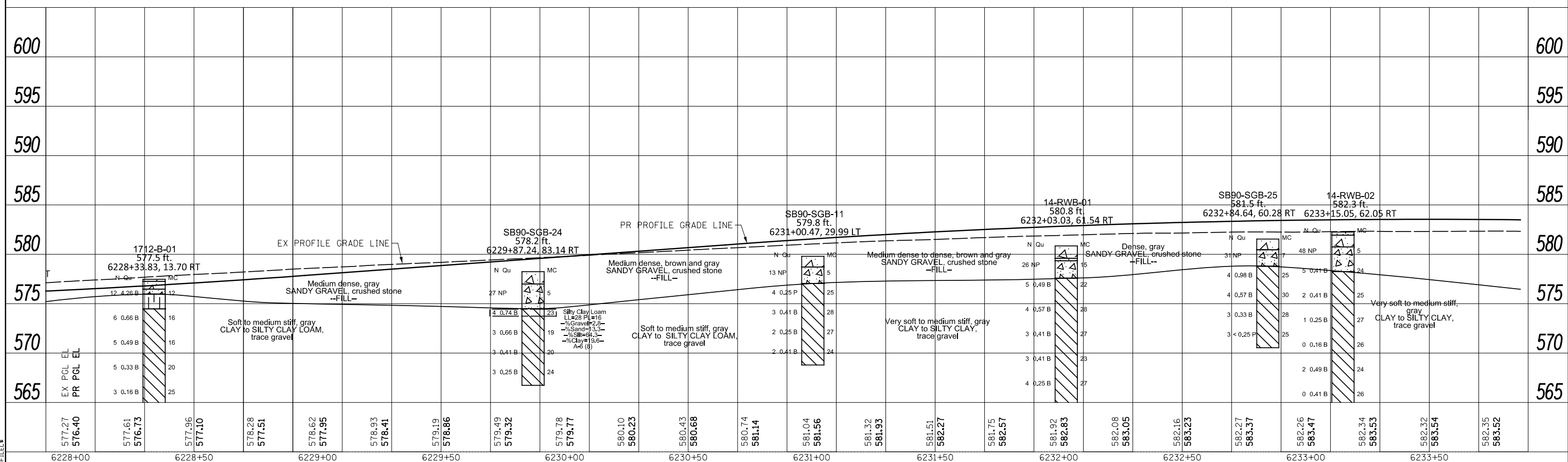
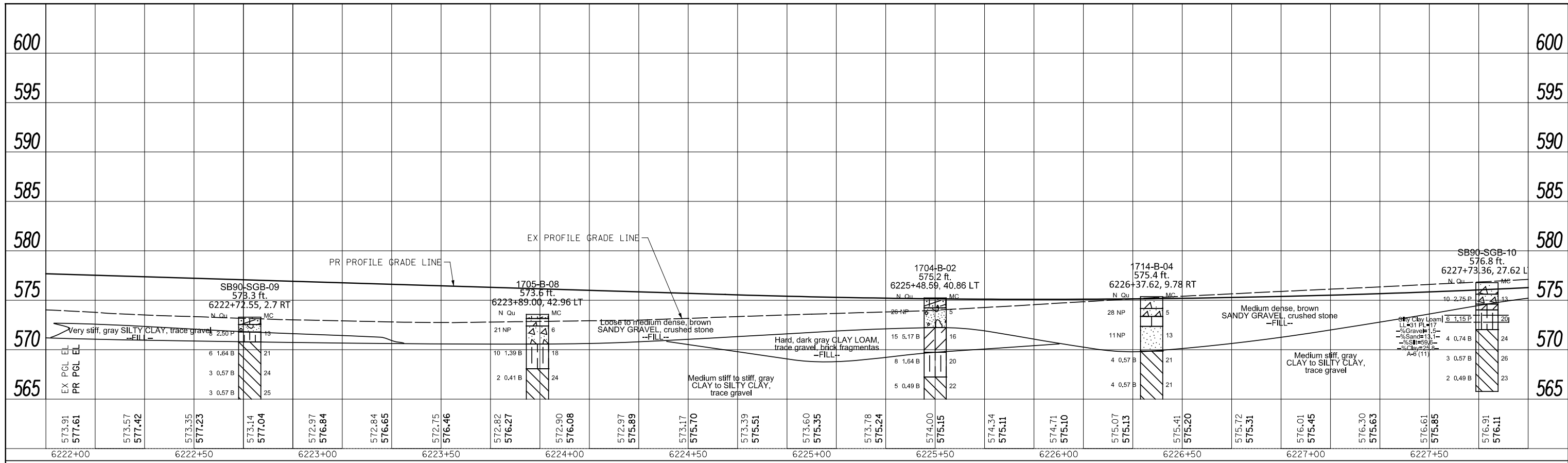
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PROFILE
 SB I-90/94**

SCALE: 1"=20' SHEET 2 OF \$PRFSHEETS STA. 6209+90.00 TO STA. 6221+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL\$	\$PRF02
CONTRACT NO. 62A77			ILLINOIS FED. AID PROJECT	



FILE PATH = \$FILE\$

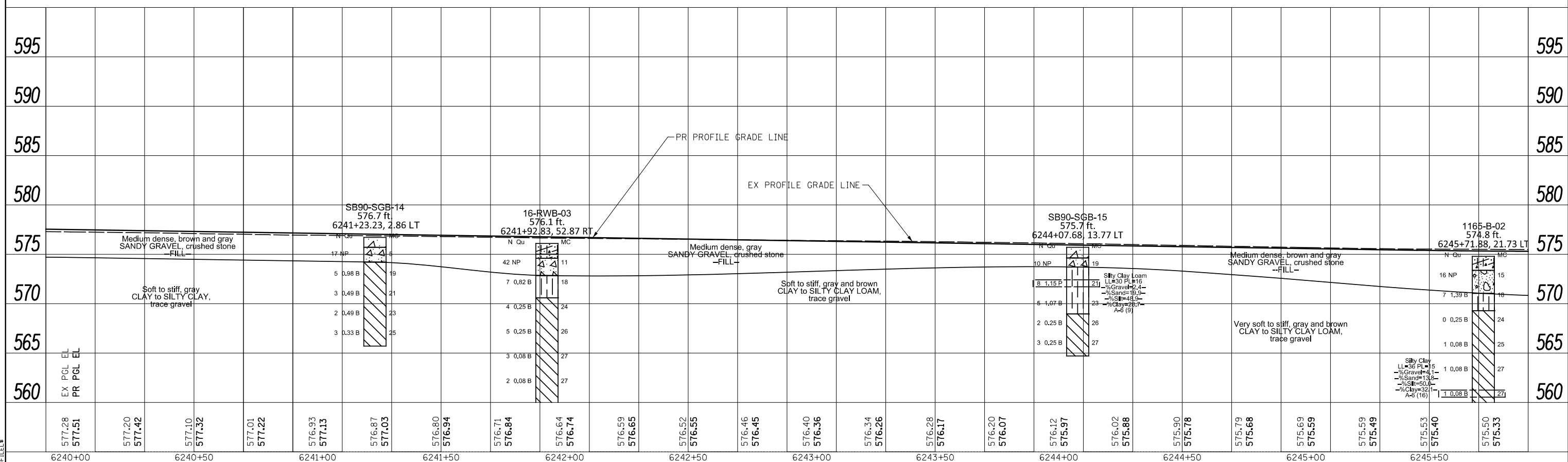
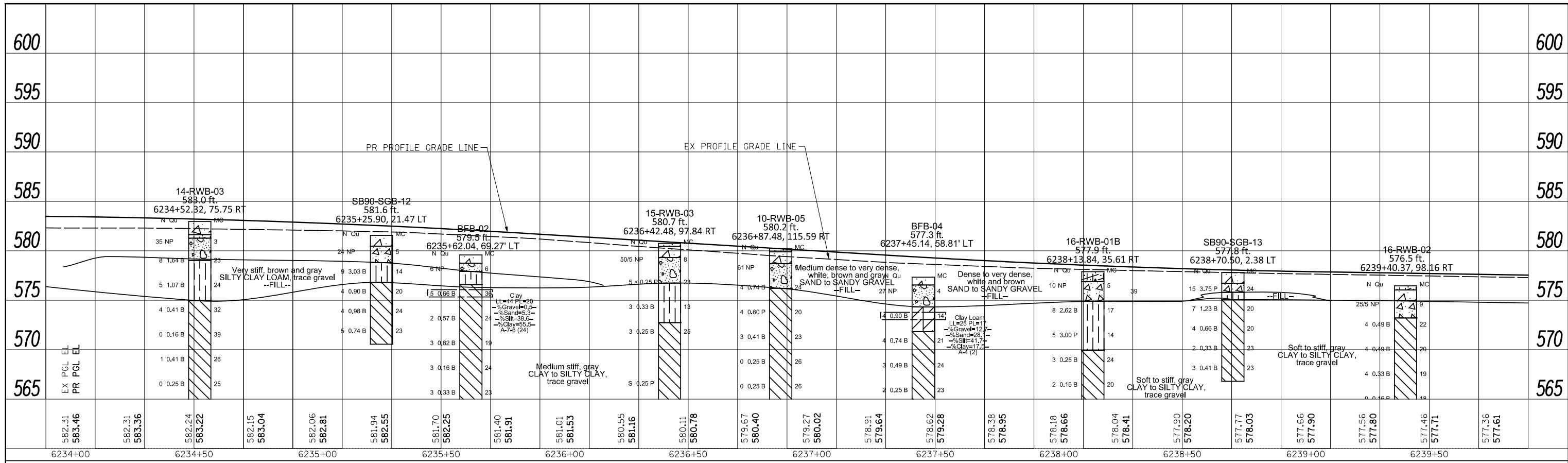


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USER NAME = \$USER\$	DRAWN - OPS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MJE	REVISED -
PLOT DATE = \$DATE\$	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE	
SB I-9094	
SCALE: 1"=20'	SHEET 3 OF \$PRFSHEETS\$ STA. 6221+90.00 TO STA. 6233+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL\$	\$PRF03\$
CONTRACT NO. 62A77			ILLINOIS FED. AID PROJECT	



FILE PATH = \$FILE\$



#FILES*
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DESIGNED - SDH
 DRAWN - OPS
 CHECKED - MJE
 DATE - \$DATE

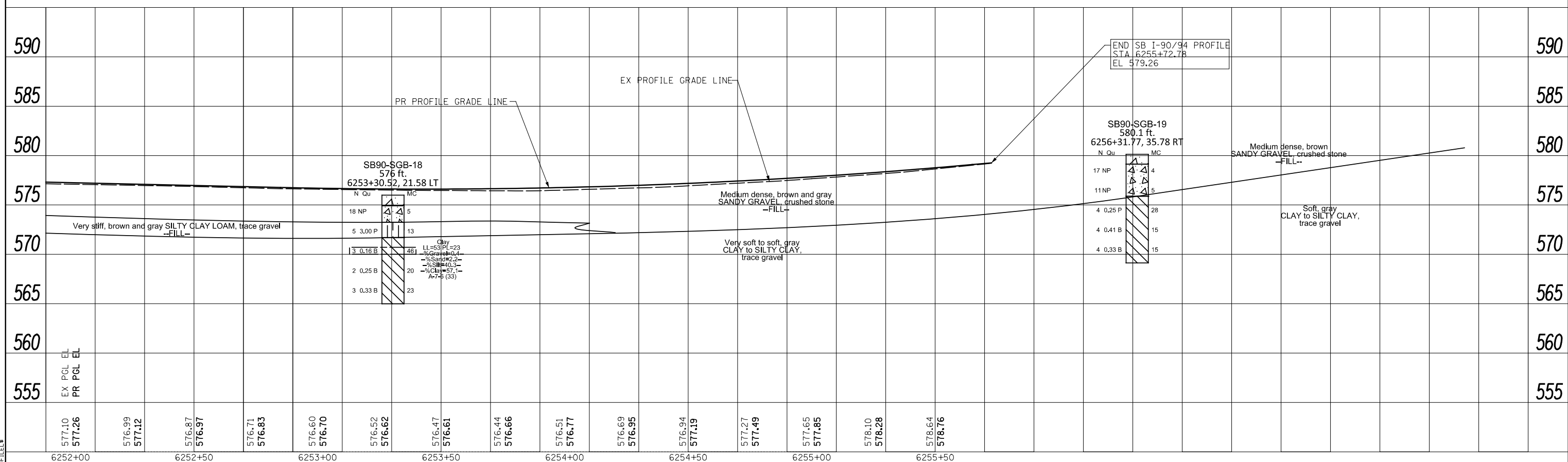
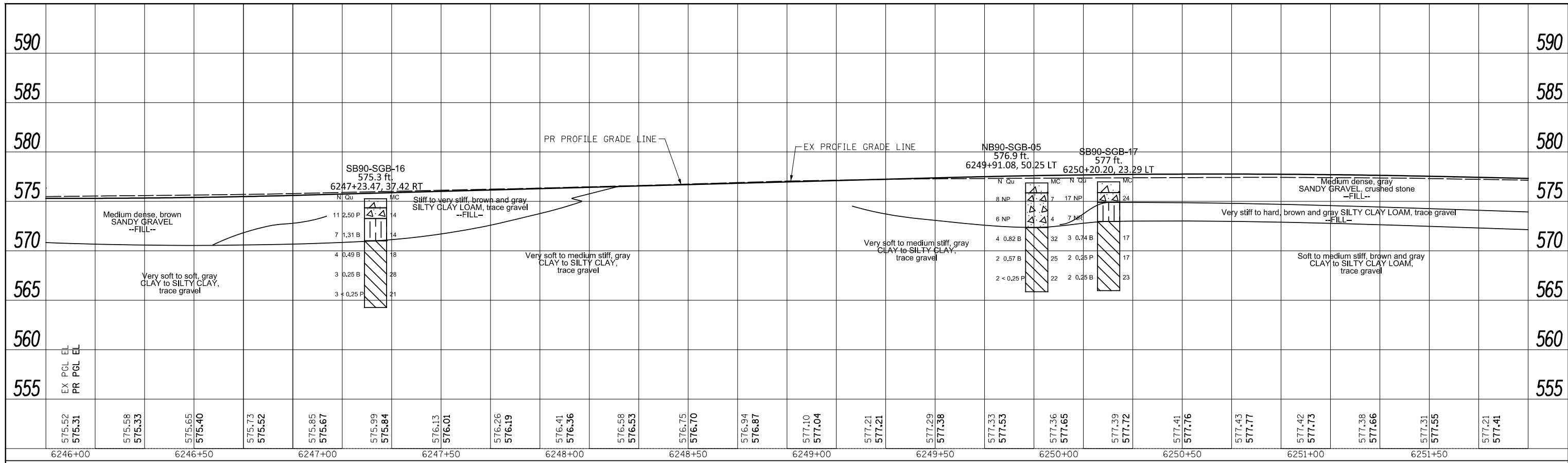
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
 SB I-90/94

SCALE: 1"=20' SHEET 4 OF \$PRFSHEETS STA. 6233+90.00 TO STA. 6245+90.00

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL	\$PRF04
CONTRACT NO. 62A77			ILLINOIS FED. AID PROJECT	



FILE PATH = \$FILE\$



#FILES*
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 PLOT DATE = \$DATE*

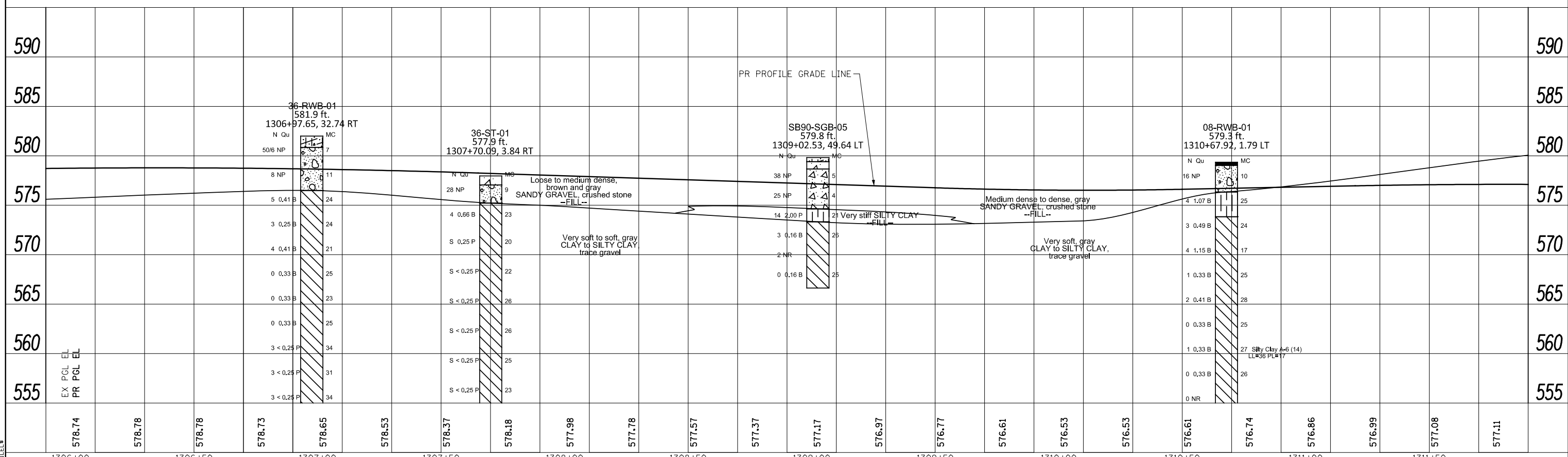
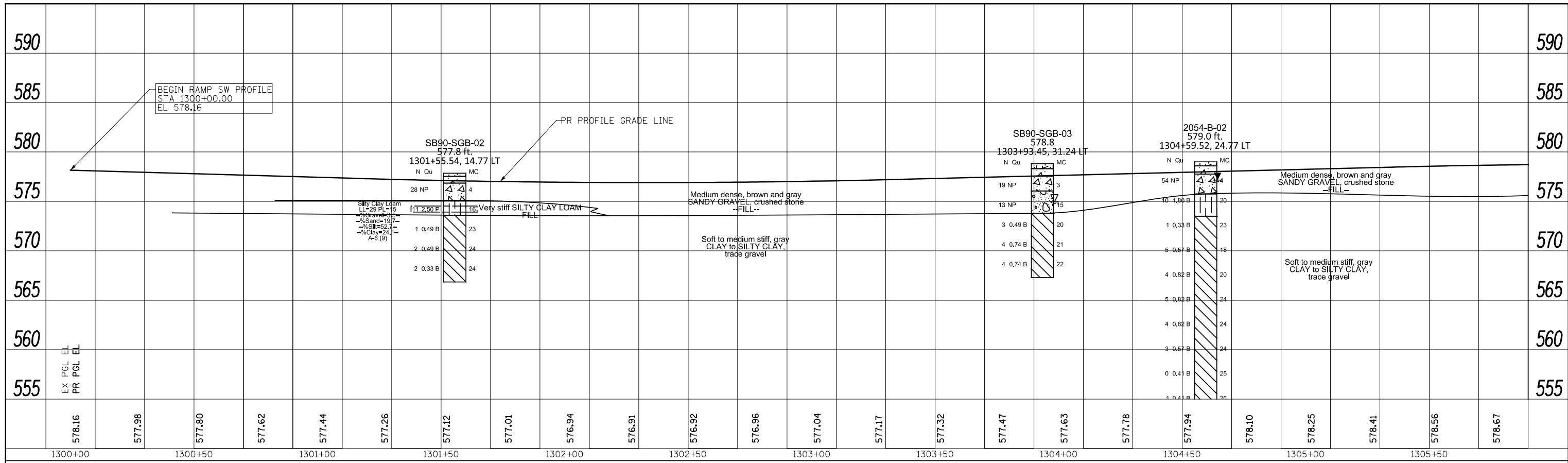
DESIGNED - SDH
 DRAWN - OPS
 CHECKED - MJE
 DATE - \$DATE

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
 SB I-90/94
 SCALE: 1"=20'
 SHEET 5 OF \$PRFSHEETS
 STA. 6245+90.00 TO STA. 6255+72.78

F.A.I. RTE. 90/94/290	SECTION 2015-018R	COUNTY COOK	TOTAL SHEETS \$TOTAL*	SHEET NO. \$PRF05
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A77	



FILE PATH = \$FILE\$



DESIGNED - SDH
 DRAWN - OPS
 CHECKED - MJE
 DATE - \$DATE

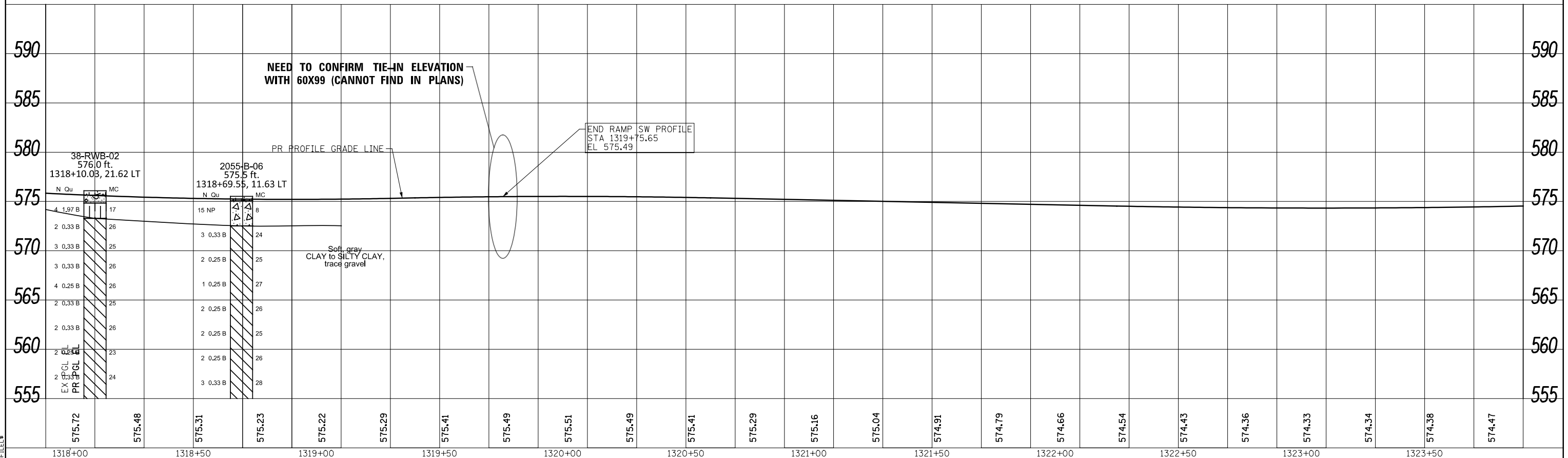
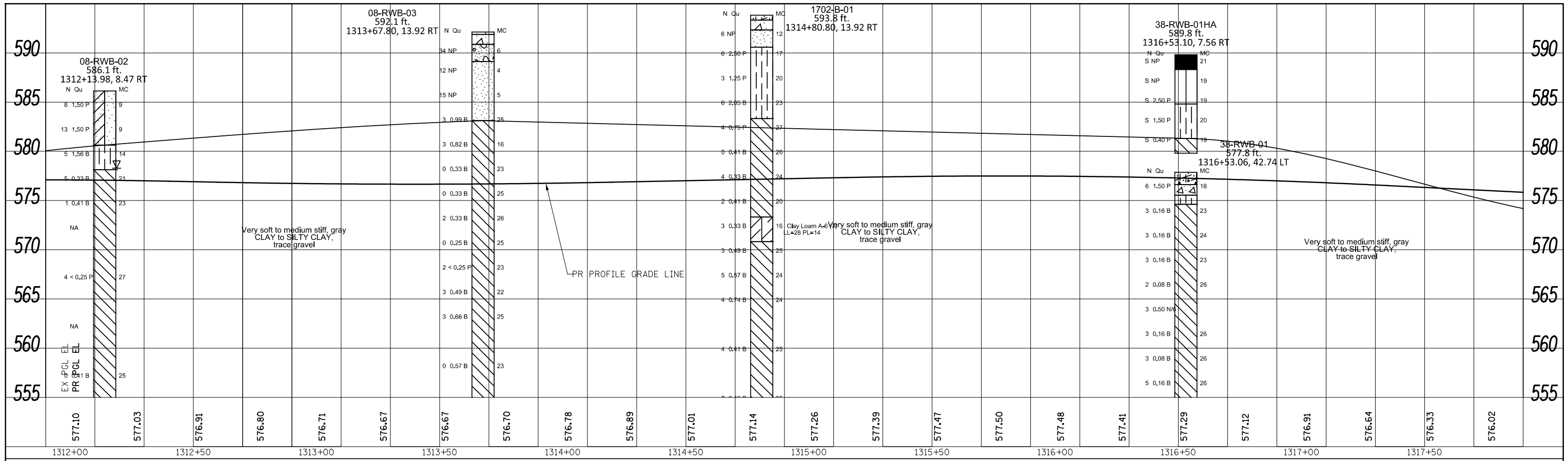
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY PROFILE
 RAMP SW

SCALE: 1"=20' SHEET 6 OF \$PRFSHEETS STA. 1300+00.00 TO STA. 1311+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL\$	\$PRF\$6
CONTRACT NO. 62A77			ILLINOIS FED. AID PROJECT	



FILE PATH = \$FILE\$



DESIGNED - SDH
DRAWN - OPS
CHECKED - MJE
DATE - \$DATE

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

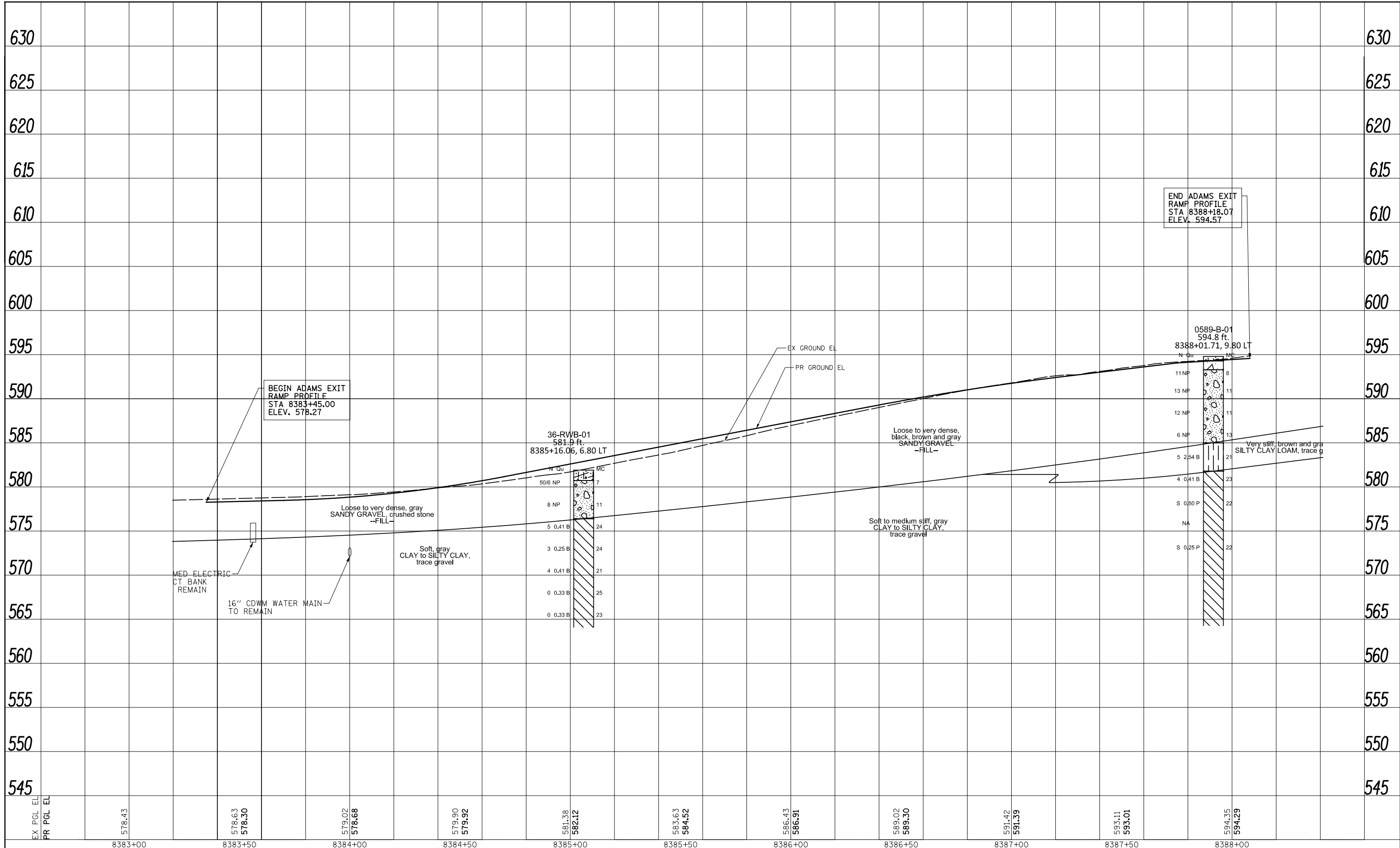
ROADWAY PROFILE
RAMP SW

SCALE: 1"=20' SHEET 7 OF \$PRFSHEETS STA. 1311+90.00 TO STA. 1323+90.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL\$	\$PRF07
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	



FILE PATH = \$FILEL\$



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PLOT SCALE = \$SCALE*	CHECKED - \$PLN-05-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

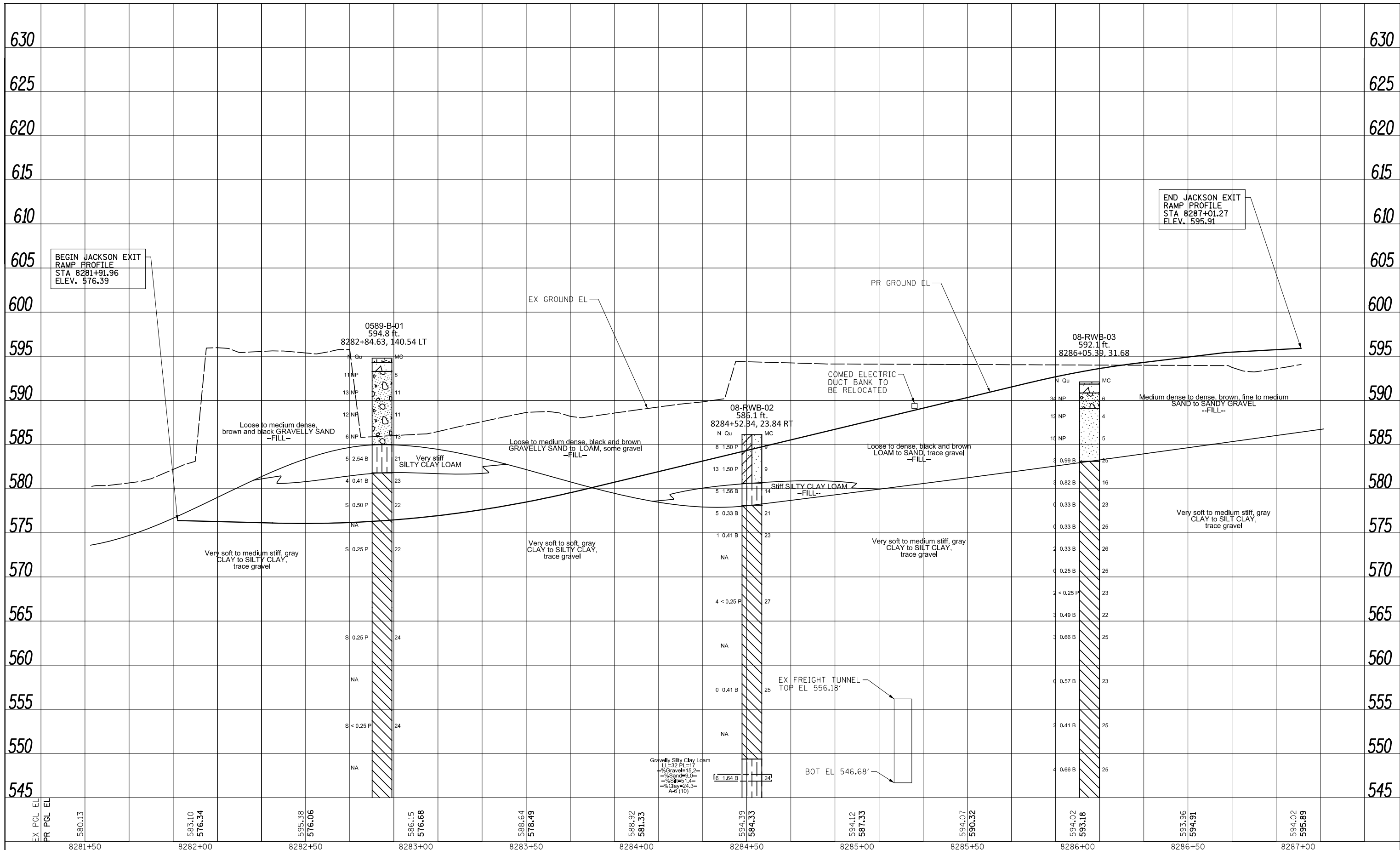
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PROFILE ADAMS EXIT RAMP	
SCALE: HORIZ: 1"=20' VERT: 1"=5'	SHEET \$PLN-10F \$PLN-50EETS TO STA.8383+82 TO STA.8389+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	\$TOT \$PLN-18	\$TOT \$PLN-18
CONTRACT NO. 60X94			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHECKED	
	NO.	



END JACKSON EXIT RAMP PROFILE
STA 8287+01.27
ELEV. 595.91

BEGIN JACKSON EXIT RAMP PROFILE
STA 8281+91.96
ELEV. 576.39

Gravelly Silty Clay Loam
LL=32 PL=17
%Gravel=15.2
%Sand=61.0
%Silt=15.4
%Clay=24.3
A=3 (10)

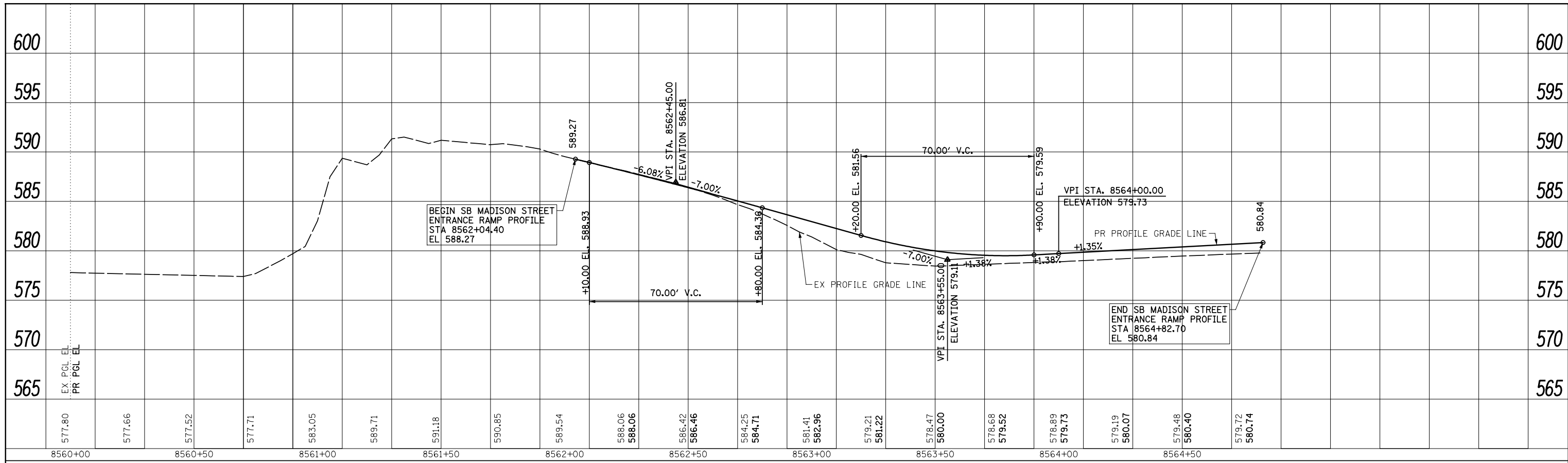


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PLOT SCALE = \$SCALE*	CHECKED - #PLN-04-CH	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

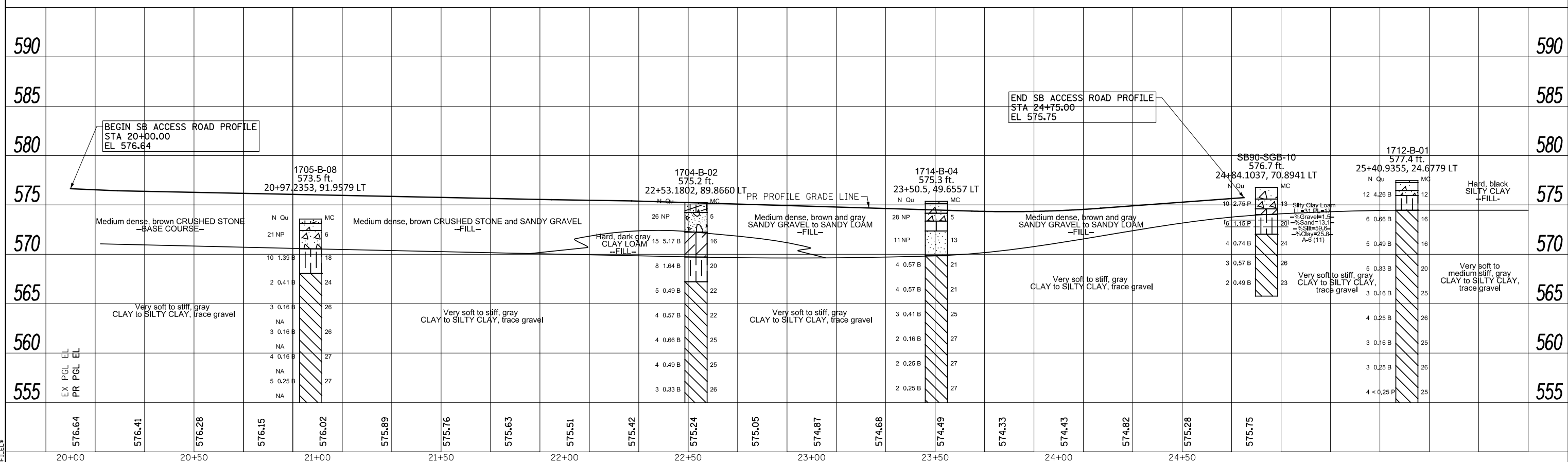
ROADWAY PROFILE JACKSON EXIT RAMP	
SCALE: HORIZ: 1"=20'	SHEET #PLN-20 OF #PLN-13 SHEETS
VERT: 1"=5'	STA. 8281+50 TO STA. 8287+10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-15R&B-R	COOK	#TOT #PLN-20	
CONTRACT NO. 60X94			ILLINOIS FED. AID PROJECT	



SB MADISON STREET ENTRANCE RAMP (TOP)

SB ACCESS ROAD (BOTTOM)



FILE PATH = \$FILEL\$



#FILES*	DESIGNED - SDH	REVISED -
USER NAME = \$USER*	DRAWN - OPS	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - MJE	REVISED -
PLOT DATE = \$DATE*	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PROFILE
SB MADISON ENTRANCE RAMP AND SB ACCESS RD**

SCALE: 1"=20' SHEET 10 OF \$PRFSHEETS\$ STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-018R	COOK	\$TOTAL\$	\$PRF10
			CONTRACT NO. 62A77	
ILLINOIS FED. AID PROJECT				