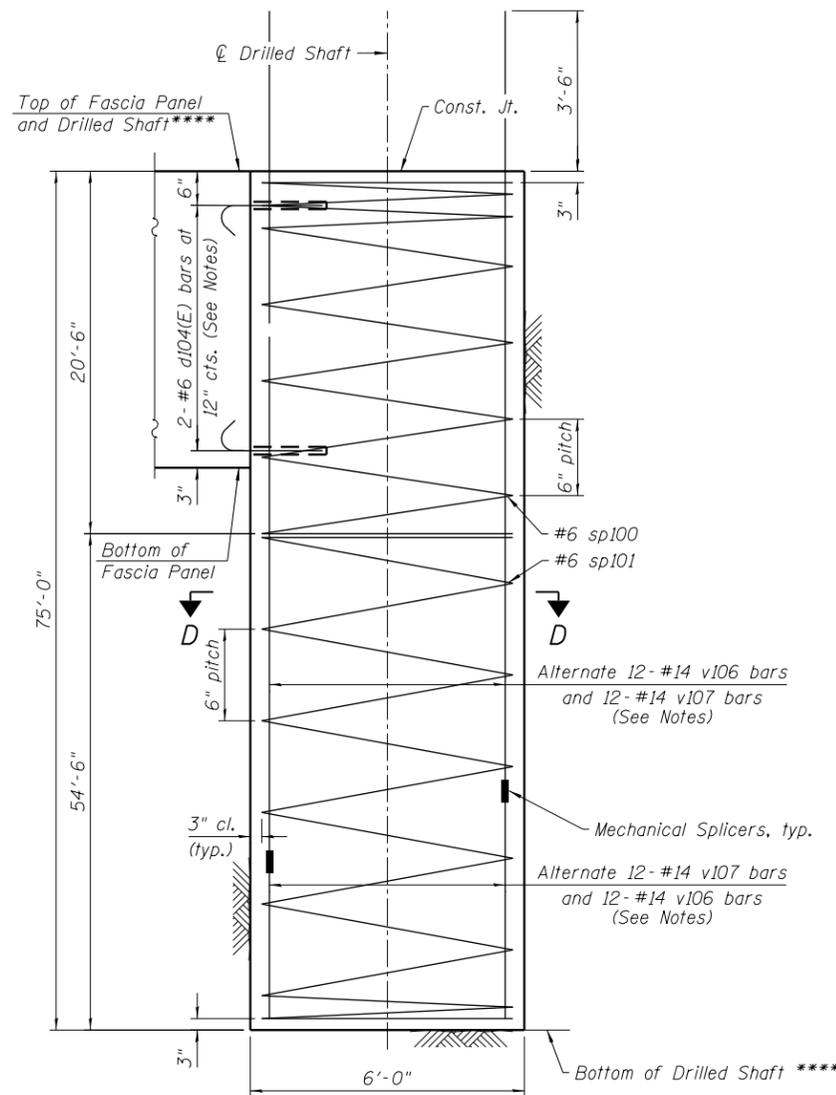


DRILLED SHAFT LAYOUT TABLE

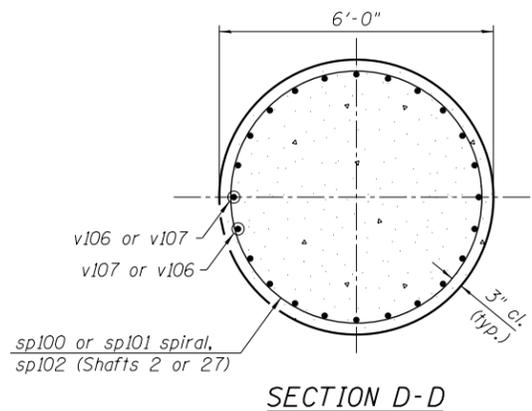
Shaft No.	Station	Offset	Top of Shaft Elevation	Bottom of Shaft Elevation
1	1315+61.78	13.69' Rt.	586.94	511.94
2	1315+71.77	14.24' Rt.	586.94	511.94
3	1315+81.75	14.80' Rt.	586.94	511.94
4	1315+91.74	15.35' Rt.	586.94	511.94
5	1316+01.72	15.91' Rt.	586.94	511.94
6	1316+11.71	16.47' Rt.	586.94	511.94
7	1316+21.69	17.02' Rt.	586.94	511.94
8	1316+31.68	17.57' Rt.	586.94	511.94
9	1316+41.66	18.13' Rt.	586.94	511.94
10	1316+51.81	18.49' Rt.	586.94	511.94
11	1316+61.81	18.64' Rt.	586.94	511.94
12	1316+71.81	18.79' Rt.	586.94	511.94
13	1316+81.81	18.94' Rt.	586.94	511.94
14	1316+91.81	19.09' Rt.	586.94	511.94
15	1317+01.81	19.25' Rt.	586.94	511.94
16	1317+11.96	19.38' Rt.	586.94	511.94
17	1317+22.31	19.36' Rt.	586.94	511.94
18	1317+32.66	19.16' Rt.	586.94	511.94
19	1317+42.81	19.00' Rt.	586.94	511.94
20	1317+53.08	19.00' Rt.	586.94	511.94
21	1317+63.35	19.00' Rt.	586.94	511.94
22	1317+73.62	19.00' Rt.	586.94	511.94
23	1317+83.89	19.00' Rt.	586.94	511.94
24	1317+94.16	19.00' Rt.	586.94	511.94
25	1318+04.43	19.00' Rt.	586.94	511.94
26	1318+14.70	19.00' Rt.	586.94	511.94
27	1318+24.97	19.00' Rt.	586.94	511.94
28	1318+35.71	19.00' Rt.	586.94	511.94
29	1318+46.91	19.00' Rt.	586.94	511.94
30	1318+58.11	19.00' Rt.	586.94	511.94
31	1318+69.31	19.00' Rt.	586.94	511.94

* Extend spiral reinforcing and drilled shaft reinforcing through cap and into HMLT pedestal. See Sheet S1-08 of S1-15 for details.

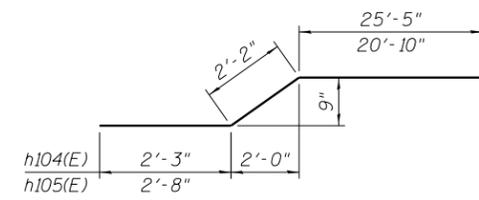


TYPICAL SHAFT ELEVATION

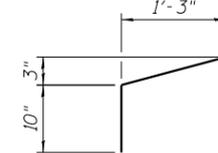
****See Drilled Shaft Layout Table



SECTION D-D



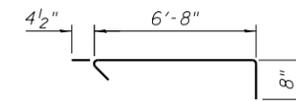
BARS h104(E) and h105(E)



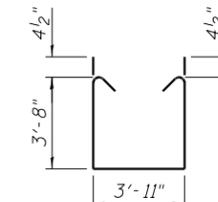
BAR d100(E)



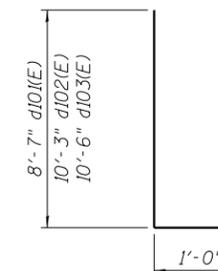
BAR d104(E)



BAR s100(E)



BAR s101(E)



BARS d101(E), d102(E) and d103(E)

Notes:

Splice v106 bars with v107 bars or v107 bars with v106 bars. For shafts 2 and 27, splice v107 bars with v108 bars and v109 bars or v108 bars and v109 bars with v107 bars accordingly. See HMLT Pedestal Elevation on Sheet S1-06 of S1-15

Splice sp100 and sp101 or sp102 or sp103 bars where they meet.

When splicing spiral reinforcement is necessary, the spiral shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.

Drilling and grouting of d104(E) bars shall be as per Section 584 of the Standard Specifications. Depth of embedment = 12". Contractor shall position d104(E) bars to miss shaft rebar. Cost included in Class SI Concrete (Miscellaneous).

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	318	#4	3'-0"	U
d101(E)	426	#6	9'-7"	U
d102(E)	88	#6	11'-3"	U
d103(E)	122	#6	11'-6"	U
d104(E)	876	#6	2'-3"	U
e100(E)	100	#5	33'-2"	—
e101(E)	52	#5	29'-8"	—
e102(E)	18	#5	24'-11"	—
e103(E)	18	#5	21'-6"	—
h100(E)	324	#6	33'-10"	—
h101(E)	137	#6	29'-8"	—
h102(E)	30	#6	25'-8"	—
h103(E)	60	#6	21'-6"	—
h104(E)	25	#6	29'-10"	—
h105(E)	30	#6	25'-8"	—
h106(E)	44	#4	5'-9"	—
p100(E)	132	#5	33'-2"	—
p101(E)	66	#5	29'-9"	—
p102(E)	44	#5	25'-0"	—
p103(E)	22	#5	21'-6"	—
s100(E)	213	#4	7'-9"	U
s101(E)	426	#4	12'-0"	U
sp100	29	#6	20'-3"	W
sp101	31	#6	54'-3"	W
sp102	1	#6	29'-1"	W
sp103	1	#6	28'-7"	W
v100(E)	182	#5	13'-11"	—
v101(E)	182	#5	12'-10"	—
v102(E)	62	#5	11'-11"	—
v103(E)	122	#5	11'-9"	—
v104(E)	88	#5	14'-2"	—
v105(E)	10	#4	4'-6"	—
v106	696	#14	37'-2"	—
v107	744	#14	41'-2"	—
v108	24	#14	42'-2"	—
v109	24	#14	41'-8"	—
v110(E)	10	#4	4'-0"	—
Structure Excavation		Cu. Yd.	783	
Concrete Structures		Cu. Yd.	325.3	
Concrete Superstructures		Cu. Yd.	144.6	
Reinforcement Bars		Pound	572,630	
Reinforcement Bars, Epoxy Coated		Pound	28,730	
Drilled Shaft in Soil		Cu. Yd.	2,434.8	
Concrete Sealer		Sq. Ft.	9,454	
Class SI Concrete (Miscellaneous)		Cu. Yd.	237.1	
Crosshole Sonic Logging Access Ducts		Foot	2,325	
Crosshole Sonic Logging Testing		Each	7	
Slope Inclinator		Each	1	
Bonded Preformed Joint Sealer, 2 Inch		Foot	28	
Pipe Underdrains for Structures 4"		Foot	314	

** Length is height of spiral
 *** Shown for information only. Cost included with Class SI Concrete (Miscellaneous).

Minimum Bar Laps	
Bar	Lap
#5	3'-2"
#6	3'-10"

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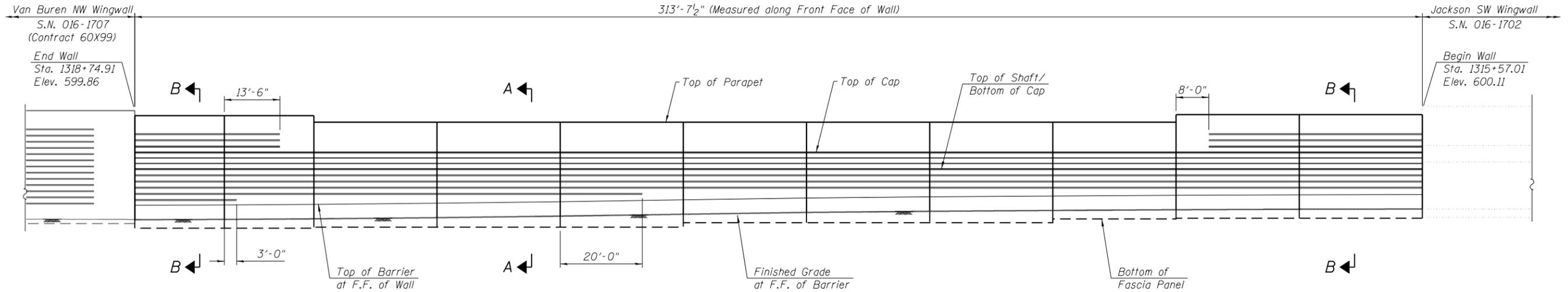
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

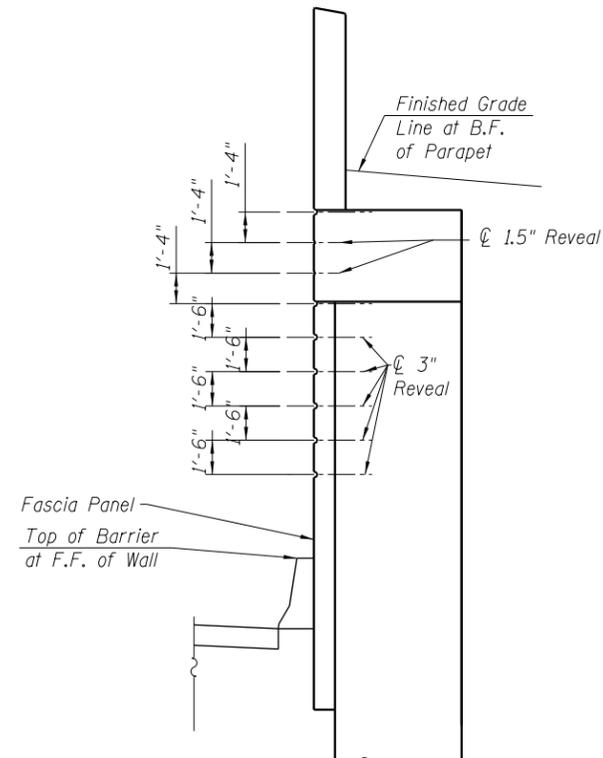
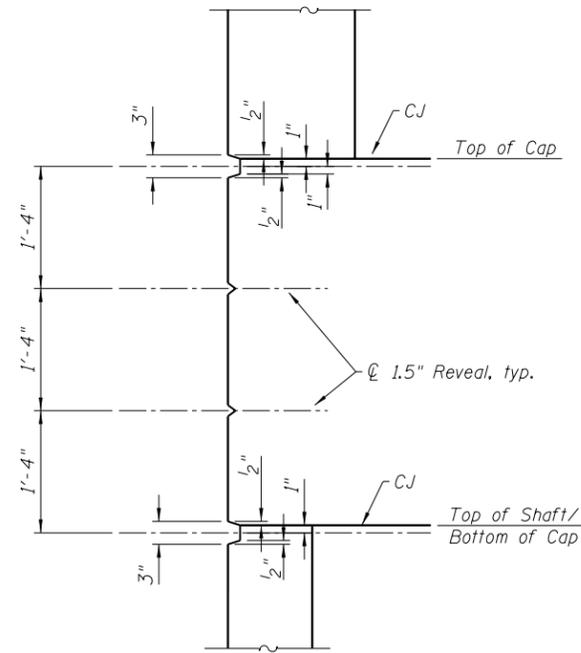
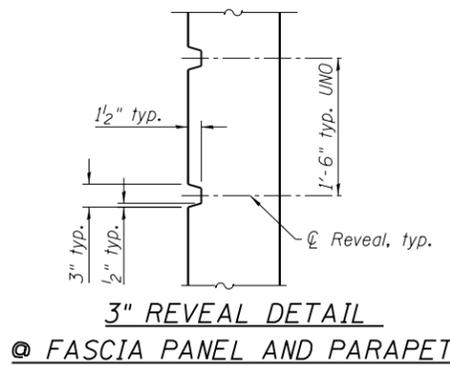
**WALL SECTION AND DETAILS 3
 RETAINING WALL 38 (STRUCTURE NO. 016-1827)**

SHEET NO. S1-09 OF S1-15 SHEETS

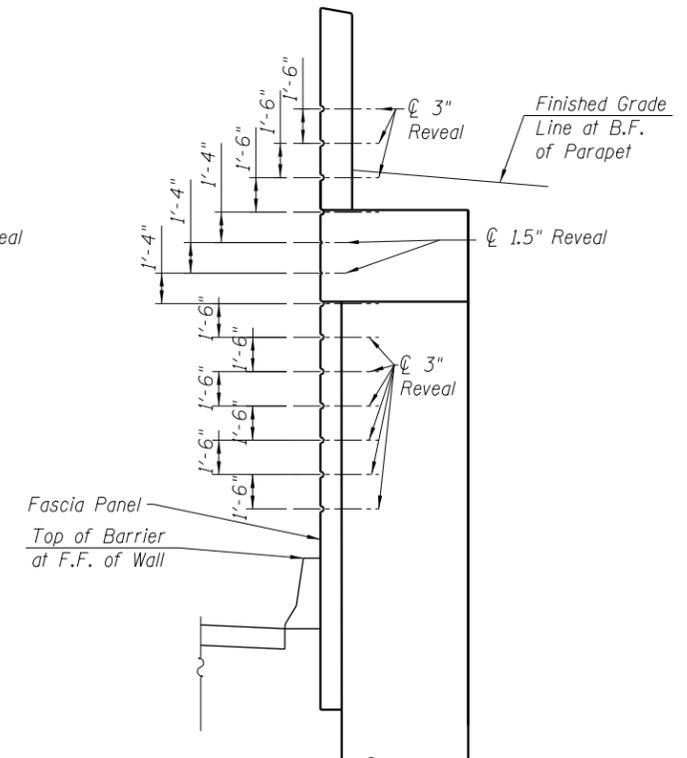
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290	2019-054-1	COOK	400	301
CONTRACT NO.			62J31	
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking West at F.F. of Wall)



SECTION A-A



SECTION B-B

Notes:
Coordinate / verify all dimensions with structural drawings.
Reveals will not be paid separately and shall be included in the cost of pay item Class S1 Concrete (Miscellaneous).

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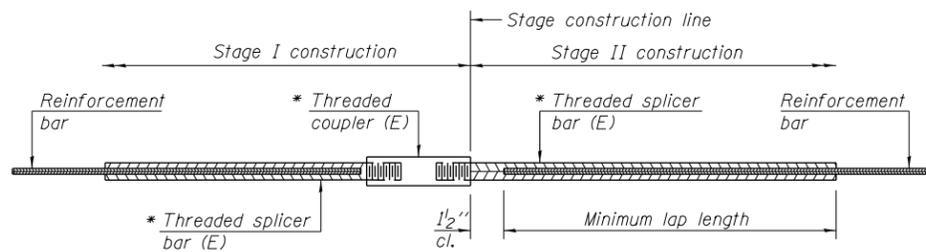
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARCHITECTURAL DETAILS
RETAINING WALL 38 (STRUCTURE NO. 016-1827)**

SHEET NO. S1-10 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			62J31	

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

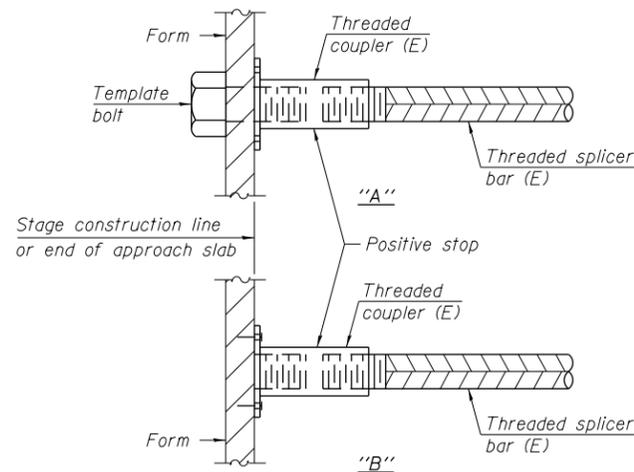
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

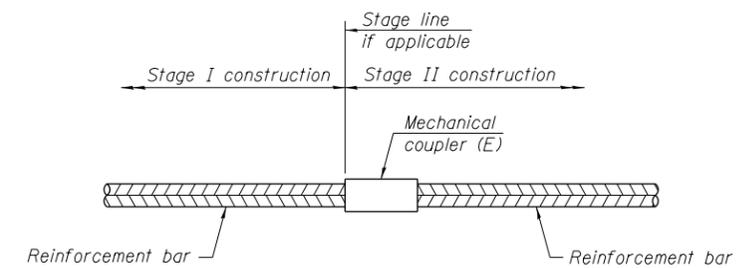
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



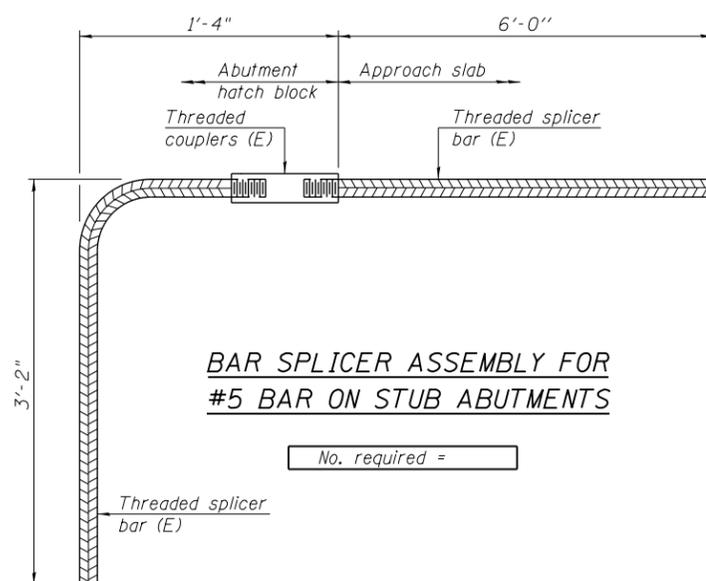
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Drilled Shaft 1	14	24
Drilled Shaft 2	14	24
Drilled Shaft 3	14	24
Drilled Shaft 4	14	24
Drilled Shaft 5	14	24
Drilled Shaft 6	14	24
Drilled Shaft 7	14	24
Drilled Shaft 8	14	24
Drilled Shaft 9	14	24
Drilled Shaft 10	14	24
Drilled Shaft 11	14	24
Drilled Shaft 12	14	24
Drilled Shaft 13	14	24
Drilled Shaft 14	14	24
Drilled Shaft 15	14	24
Drilled Shaft 16	14	24
Drilled Shaft 17	14	24
Drilled Shaft 18	14	24
Drilled Shaft 19	14	24
Drilled Shaft 20	14	24
Drilled Shaft 21	14	24
Drilled Shaft 22	14	24
Drilled Shaft 23	14	24
Drilled Shaft 24	14	24
Drilled Shaft 25	14	24
Drilled Shaft 26	14	24
Drilled Shaft 27	14	24
Drilled Shaft 28	14	24
Drilled Shaft 29	14	24
Drilled Shaft 30	14	24
Drilled Shaft 31	14	24



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
RETAINING WALL 38 (STRUCTURE NO. 016-1827)**

SHEET NO. S1-11 OF S1-15 SHEETS

F.A.I. RTE. 290	SECTION 2019-054-1	COUNTY COOK	TOTAL SHEETS 400	SHEET NO. 303
CONTRACT NO. 62J31			ILLINOIS FED. AID PROJECT	

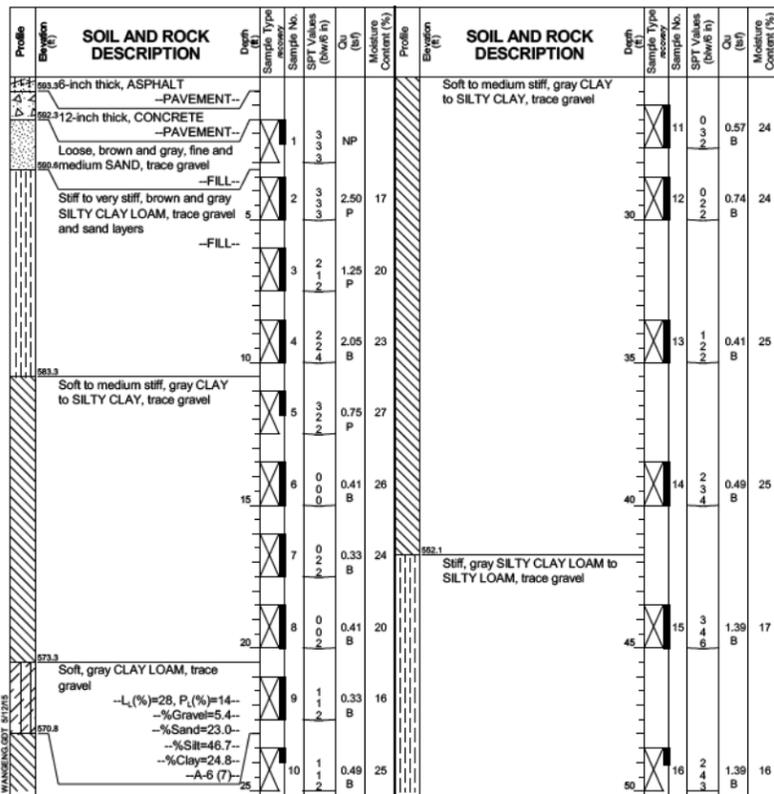
Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 1702-B-01
WEI Job No.: 1100-04-01

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

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

Page 1 of 3



GENERAL NOTES
Begin Drilling 06-17-2014 Complete Drilling 06-17-2014
Drilling Contractor Wang Testing Services Drill Rig B-57 TMR
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 Rotary wash
At Completion of Drilling unable to measure
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

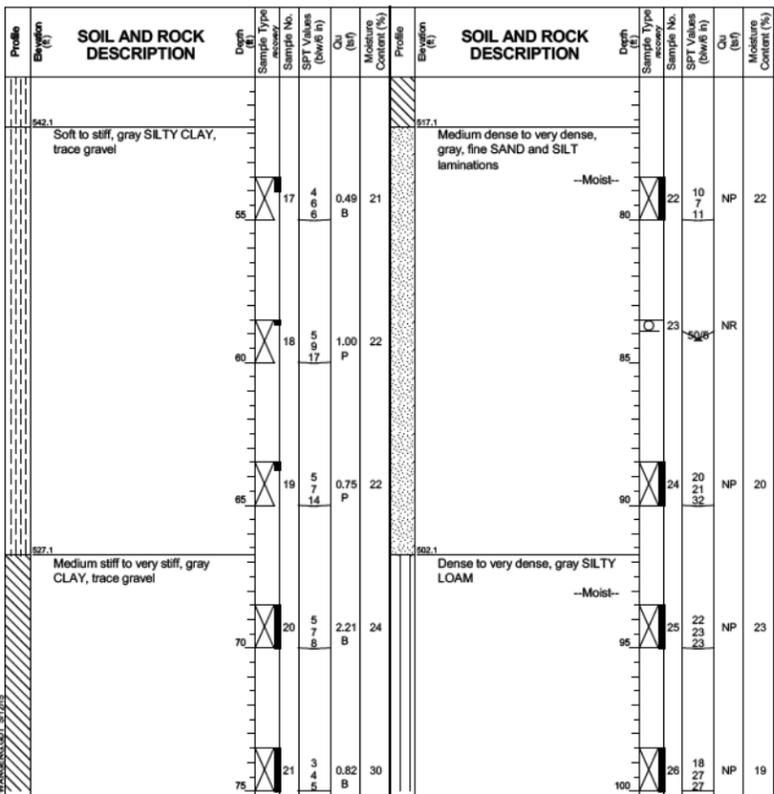
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Page 2 of 3



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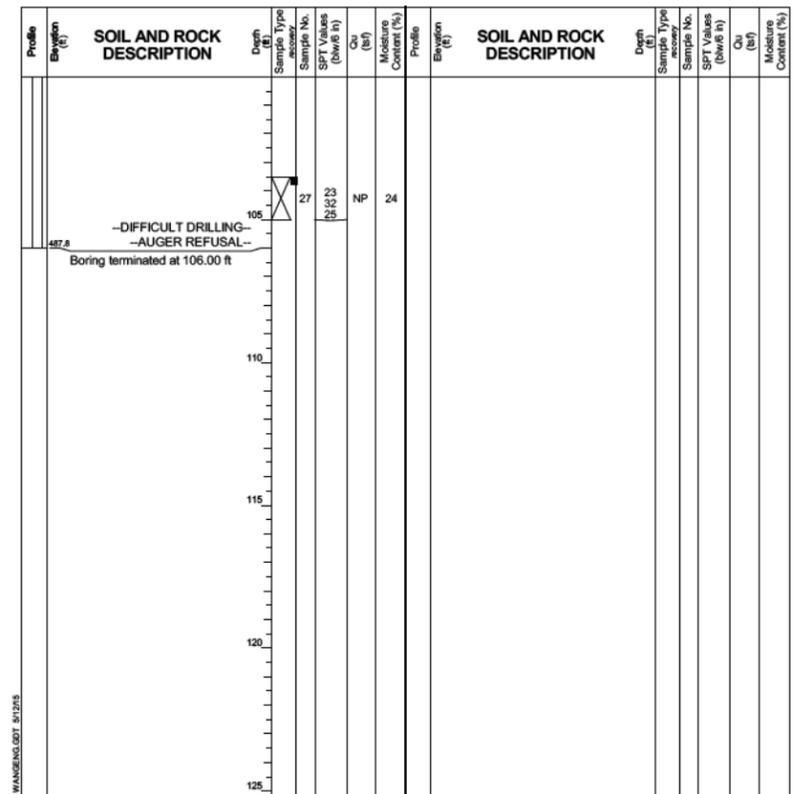
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Page 3 of 3



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At Completion of Drilling unable to measure
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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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
RETAINING WALL 38 (STRUCTURE NO. 016-1827)

SHEET NO. S1-12 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-1	COOK	400	304
CONTRACT NO.			62J31	
ILLINOIS FED. AID PROJECT				

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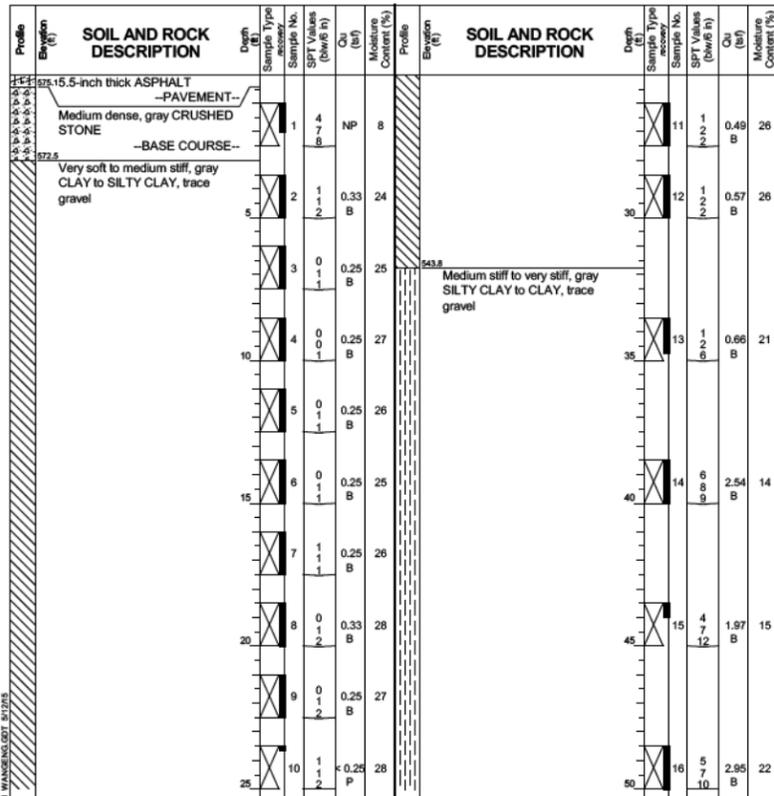
Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 2055-B-06
WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 575.52 ft
North: 1898460.17 ft
East: 1171341.21 ft
Station: 8148+53.80
Offset: 57.3869 LT

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

Page 1 of 3



GENERAL NOTES
Begin Drilling 05-13-2013 Complete Drilling 05-15-2013
Drilling Contractor Wang Testing Services Drill Rig CME-55 TMR
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 unable to measure
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

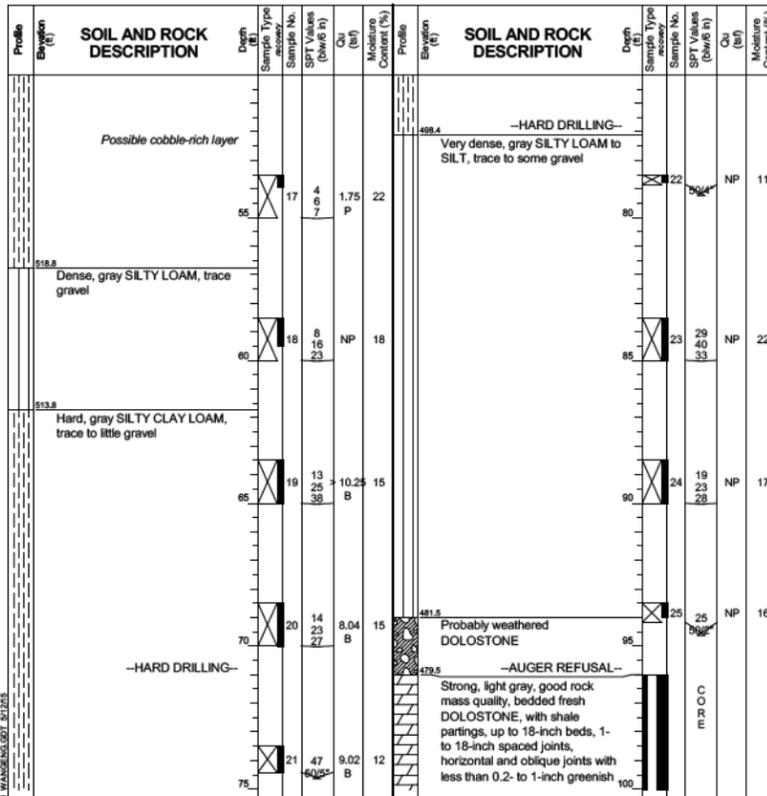
Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

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WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 575.52 ft
North: 1898460.17 ft
East: 1171341.21 ft
Station: 8148+53.80
Offset: 57.3869 LT

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

Page 2 of 3



GENERAL NOTES
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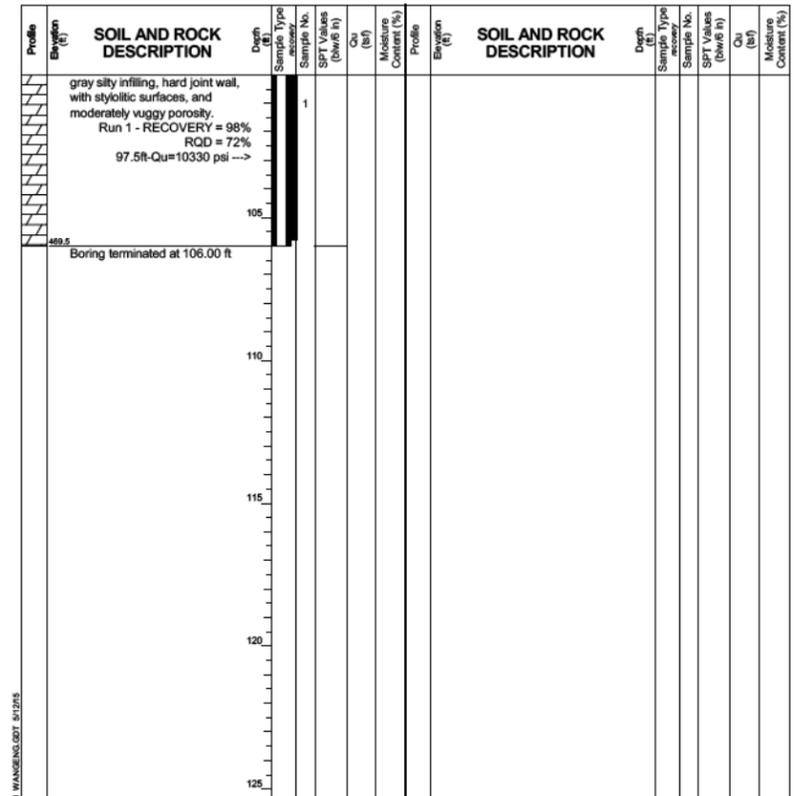
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wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 2055-B-06
WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 575.52 ft
North: 1898460.17 ft
East: 1171341.21 ft
Station: 8148+53.80
Offset: 57.3869 LT

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

Page 3 of 3



GENERAL NOTES
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WATER LEVEL DATA
While Drilling Rotary wash
At Completion of Drilling unable to measure
Time After Drilling NA
Depth to Water NA
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	CHECKED - KRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
RETAINING WALL 38 (STRUCTURE NO. 016-1827)

SHEET NO. S1-13 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-1	COOK	400	305
CONTRACT NO.			62J31	
ILLINOIS FED. AID PROJECT				

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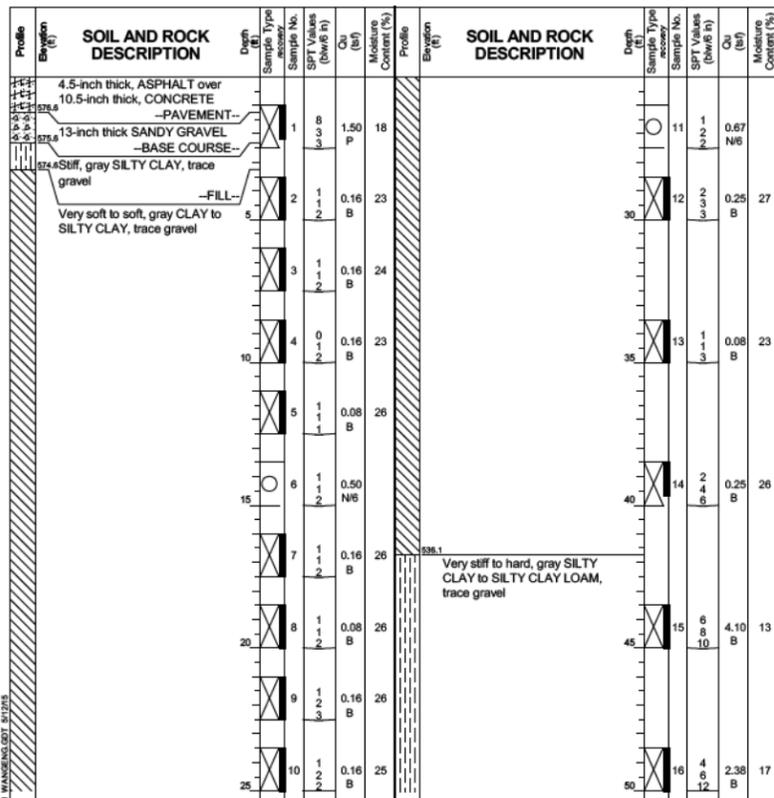
Wang Engineering
wangeng@wangeng.com
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Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 38-RWB-01
WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 577.87 ft
North: 1898674.22 ft
East: 1171408.18 ft
Station: 1316+53.06
Offset: 42.7366 LT

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

Page 1 of 2



GENERAL NOTES

Begin Drilling 08-19-2014 Complete Drilling 08-19-2014

Drilling Contractor Wang Testing Services Drill Rig CME-55 THMR

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 unable to measure

Time After Drilling NA

Depth to Water NA

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

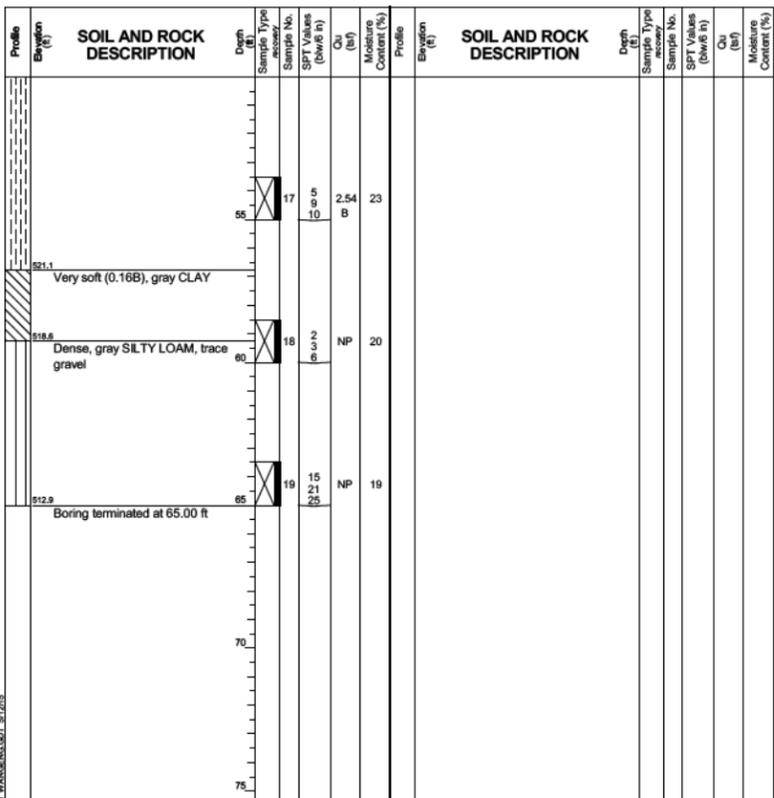
Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 38-RWB-01
WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 577.87 ft
North: 1898674.22 ft
East: 1171408.18 ft
Station: 1316+53.06
Offset: 42.7366 LT

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

Page 2 of 2



GENERAL NOTES

Begin Drilling 08-19-2014 Complete Drilling 08-19-2014

Drilling Contractor Wang Testing Services Drill Rig CME-55 THMR

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 unable to measure

Time After Drilling NA

Depth to Water NA

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

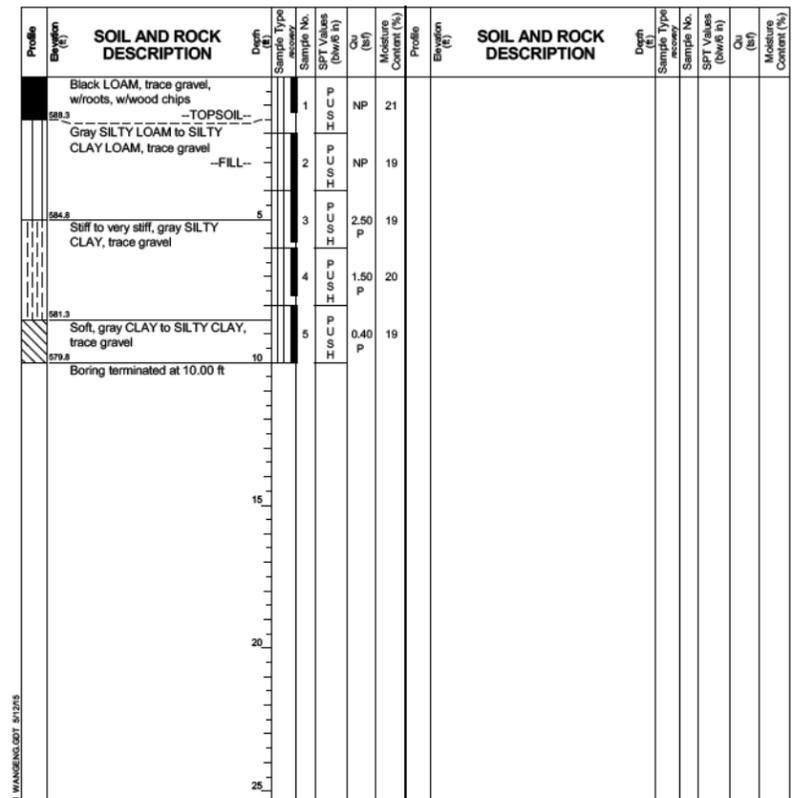
Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 38-RWB-01HA
WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 589.82 ft
North: 1898677.09 ft
East: 1171357.96 ft
Station: 1316+53.10
Offset: 7.5636 RT

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

Page 1 of 1



GENERAL NOTES

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

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.

Note:
Station and Offsets are measured along Prop. Ramp SW.

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0161827-62J31-S014-Boring_3.dgn



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PLOT DATE = 8/13/2019	DRAWN - AJD	REVISED -
	CHECKED - KRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
RETAINING WALL 38 (STRUCTURE NO. 016-1827)

SHEET NO. S1-14 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-1	COOK	400	306
CONTRACT NO.			62J31	
ILLINOIS FED. AID PROJECT				

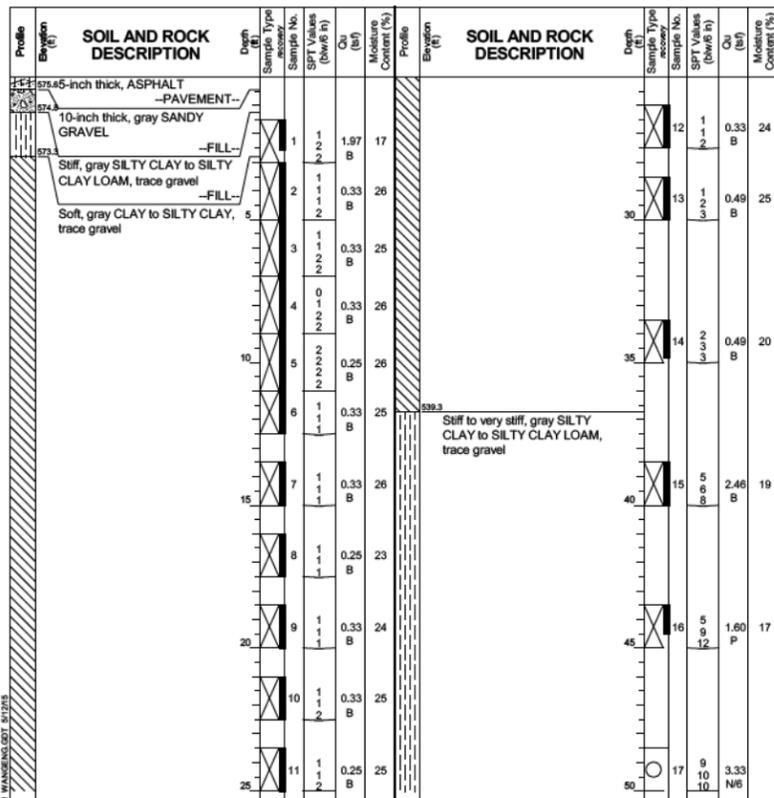
Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 38-RWB-02
WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 576.09 ft
North: 1898515.97 ft
East: 1171368.28 ft
Station: 1318+10.03
Offset: 21.6181 LT

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

Page 1 of 2



GENERAL NOTES

Begin Drilling 08-20-2014 Complete Drilling 08-20-2014

Drilling Contractor Wang Testing Services Drill Rig CME-55 THMR

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 unable to measure

Time After Drilling NA

Depth to Water NA

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

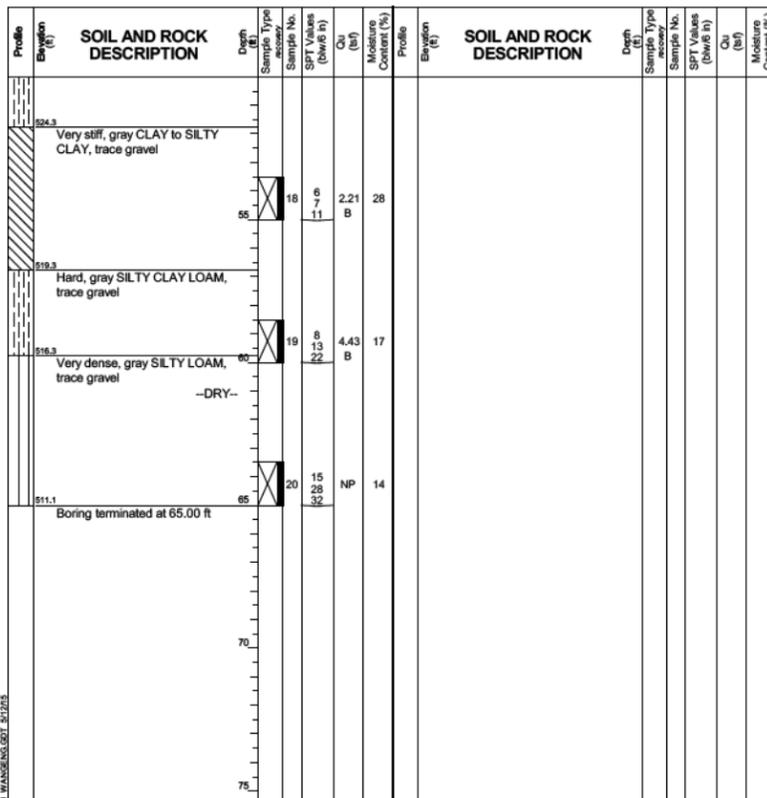
Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 38-RWB-02
WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 576.09 ft
North: 1898515.97 ft
East: 1171368.28 ft
Station: 1318+10.03
Offset: 21.6181 LT

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

Page 2 of 2



GENERAL NOTES

Begin Drilling 08-20-2014 Complete Drilling 08-20-2014

Drilling Contractor Wang Testing Services Drill Rig CME-55 THMR

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 unable to measure

Time After Drilling NA

Depth to Water NA

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

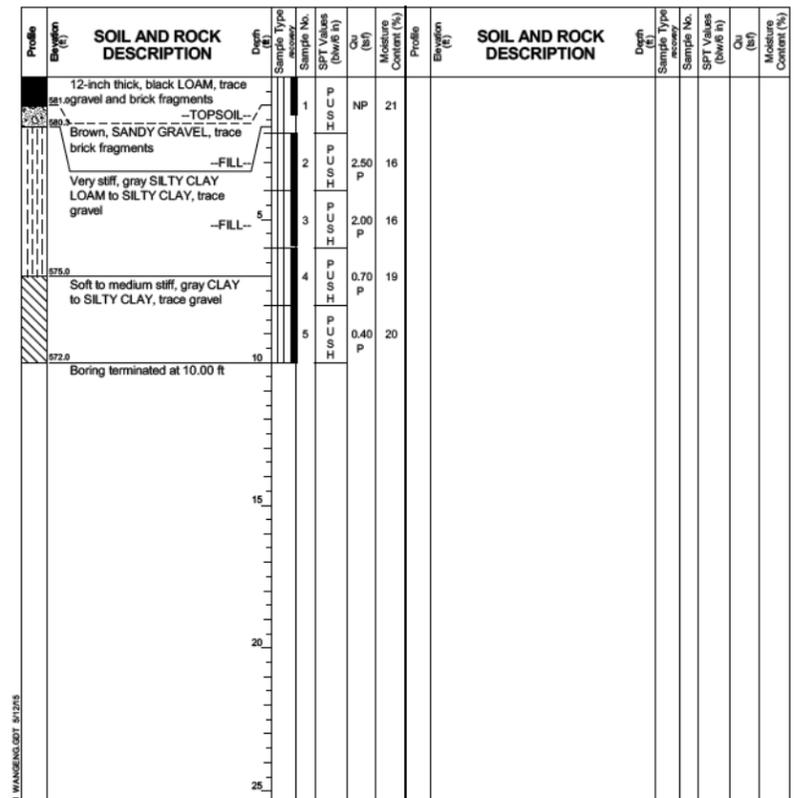
Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 38-RWB-02HA
WEI Job No.: 1100-04-01

Datum: NAVD 88
Elevation: 582.04 ft
North: 1898532.77 ft
East: 1171399.09 ft
Station: 1318+00.41
Offset: 10.6331 RT

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

Page 1 of 1



GENERAL NOTES

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

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.

Note:
Station and Offsets are measured along @ Prop. Ramp SW.

7:08:14 PM
0161827-62J31-S015-Boring_4.dgn



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PLOT DATE = 8/13/2019	DRAWN - LFP	REVISED -
	CHECKED - KRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4
RETAINING WALL 38 (STRUCTURE NO. 016-1827)

SHEET NO. S1-15 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-1	COOK	400	307
CONTRACT NO.			62J31	
ILLINOIS FED. AID PROJECT				

Bench Mark: Cut "X" on southwest balcony of Jackson Blvd. Bridge, Elev. 597.26.

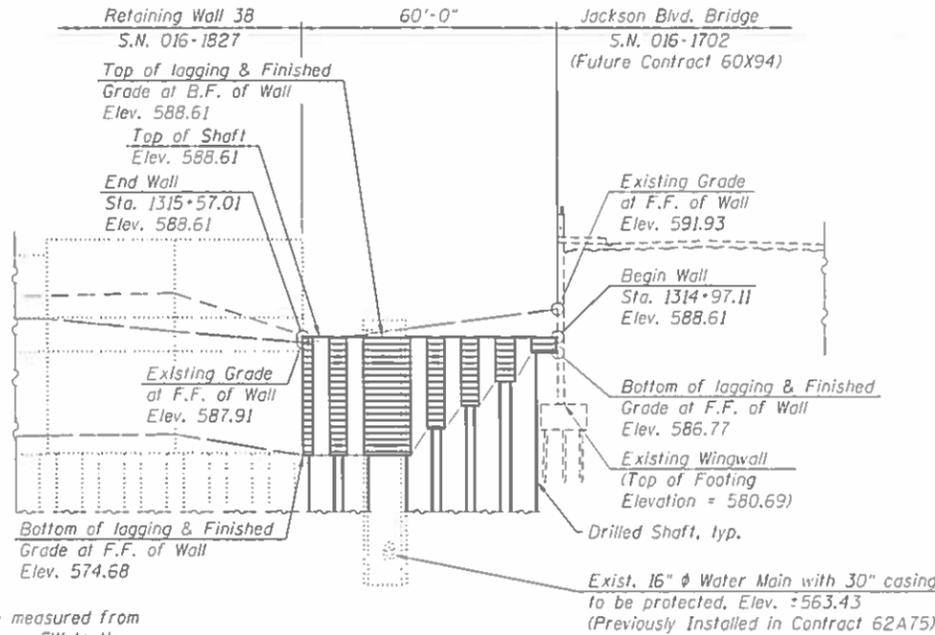
Existing Structure: None.

Traffic on SB I-90/94 will be maintained during construction, and traffic on Jackson Boulevard will be detoured during construction.

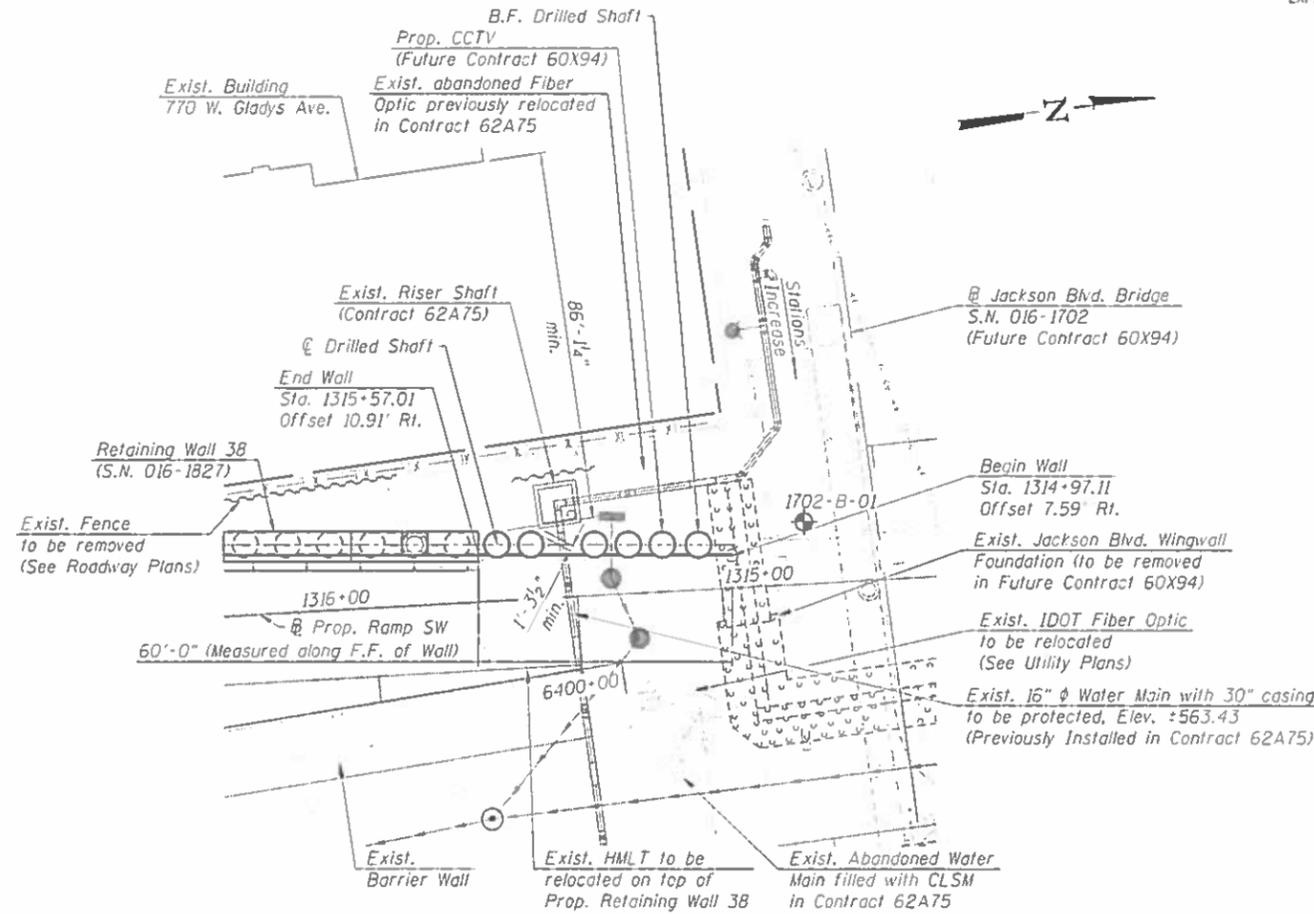
SUGGESTED CONSTRUCTION SEQUENCE

1. Construct drilled shaft 1 thru 6.
2. Excavate in front of shafts, installing lagging system in the process.
3. Construction of the fascia panel and geocomposite wall drain will be completed as part of future Contract 60X94.

Notes:
Wall offsets are measured from the @ of Prop. Ramp SW to the front face of the timber lagging.
F.F. denotes Front Face.
B.F. denotes Back Face.



ELEVATION
(Looking West at F.F. of Wall)



PLAN

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications 8th Edition

DESIGN STRESSES

FIELD UNITS

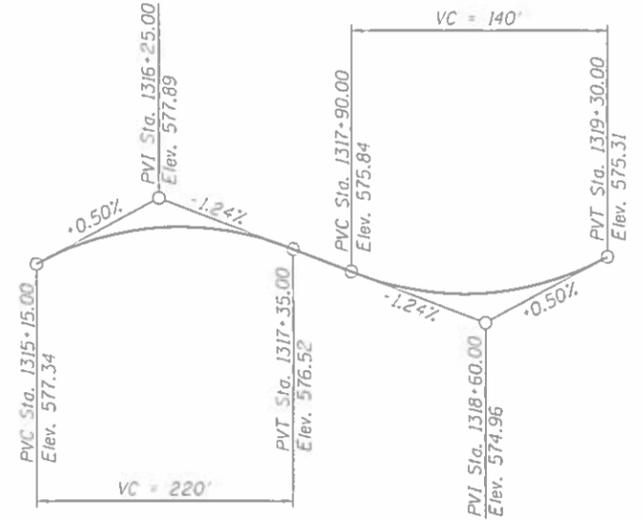
$f'_c = 7,000$ psi (Drilled Shafts)
 $f'_c = 3,500$ psi (All other concrete)
 $f_y = 60,000$ psi (Reinforcement)

APPROVED
For Structural Adequacy Only

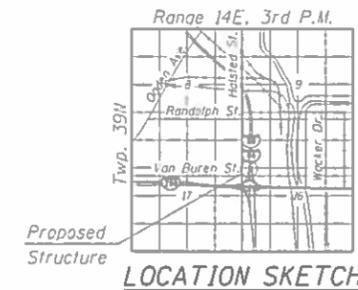
Matthew D. Santeford
Engineer of Bridges & Structures



Matthew D. Santeford
MATTHEW D. SANTEFORD, P.E., S.E.
NO. 081-007244
EXP. DATE 11/30/2020



PROFILE GRADE
(Along @ Ramp SW)



LOCATION SKETCH

LEGEND:

- Ex. Chain Link Fence — x —
- Combined Sewer —>>>>
- Electric — E —
- Water — W —
- Fiber Optic — FO —
- Ex. Storm Sewer —>>>>
- Prop. Storm Sewer —>>>>
- Soil Boring — ⊕ —
- Existing Catch Basin — ○ —
- Proposed Catch Basin — ● —
- Existing Manhole — ⊙ —
- Proposed Inlet — ■ —

GENERAL PLAN AND ELEVATION
JACKSON BLVD. SOUTHWEST WINGWALL ALONG RAMP SW
F.A.I. RTE. 290 (EISENHOWER EXPRESSWAY)

SECTION 2019-054-1

COOK COUNTY

STATION 1314+97.11 TO STATION 1315+57.01

STRUCTURE NO. 016-1702

8:13:29 AM
0161702-62J31-S001-gPE.dgn



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	CHECKED - DJG	REVISED
PLOT SCALE * 41.67' / in.	DRAWN - AJD	REVISED
PLOT DATE * 9/12/2019	CHECKED - KRS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S2-01 OF S2-06 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-1	COOK	400	308
CONTRACT NO. 62J31			ILLINOIS FED. AID PROJECT	

GENERAL NOTES:

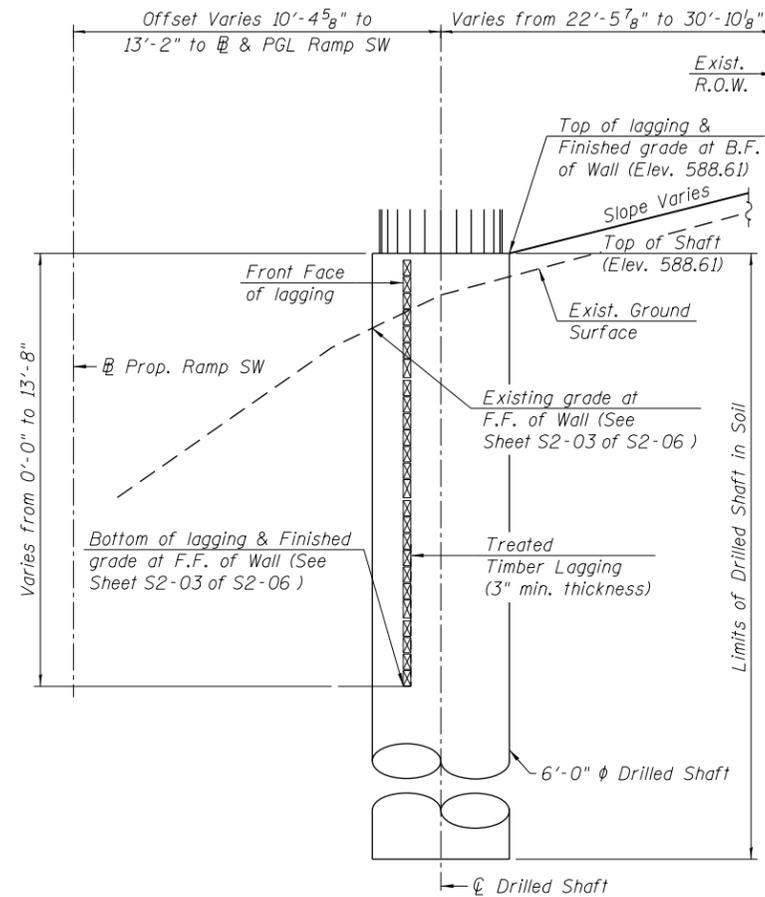
1. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent building foundations. Any damage during construction shall be repaired by the Contractor at his expense and no charge to the department. Driving piles and temporary sheet piling is not allowed.
2. The Contractor shall provide vibration and displacement monitoring at the locations specified in the Special Provisions for Construction Vibration Monitoring and Monitoring Adjacent Structures, to ensure that removal/construction activities in the vicinity of the structures do not have detrimental effects on building foundations. No additional compensation shall be provided to the Contractor for alternative means and methods, or additional precautionary measures, required during removal/ construction activities to satisfy these requirements. See Contract Special Provisions for details.
3. Drilled shaft construction above existing grade shall not be paid separately but shall be included with Drilled Shaft in Soil.
4. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor.
5. Concrete for the Drilled Shafts shall be in accordance with Section 516 of Standard Specifications and shall have the minimum compressive strength of 7,000 psi prior to excavation in front of shafts and installation of lagging system.
6. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor will not be compensated for issues related to the groundwater elevation.
7. The Contractor shall take all necessary precautions not to contaminate groundwater during the drilled shaft construction operation. Contractor is responsible for the proper containment and disposal of the contaminated groundwater and spoils resulting from the Contractor's means and methods. No additional cost will be paid for this effort.
8. Due to the high squeeze potential of the clay soils, the use of temporary casing will be required to properly construct the shafts. Casing may be pulled or remain in place, as determined by the Contractor at no cost to the Department.
9. The contractor shall coordinate the construction of the proposed structure with the construction of the Proposed Retaining Wall 38. See MOT plan sheets and special provisions, including the Available Work Areas and Sequencing Requirements special provision, for additional construction and coordination requirements.
10. Foundation Construction at Existing Obstructions applies to Shaft 1 only.
11. For drilled shaft locations where permanent casing is required as shown on the plans, the casing will be paid for under Permanent Casing. If Contractor elects to use permanent casing for ease of construction in locations where it is not required on the plans, the casing will not be paid for separately and is included in Drilled Shaft in Soil.

INDEX OF SHEETS

S2-01	General Plan and Elevation
S2-02	General Data
S2-03	Plan and Elevation
S2-04	Wall Sections and Details
S2-05	Bar Splicer Assembly and Mechanical Splicer Details
S2-06	Boring Logs

TOTAL BILL OF MATERIAL

Item	Unit	Total Quantity
Structure Excavation	Cu. Yd.	95
Reinforcement Bars	Pound	110,320
Mechanical Splicers	Each	144
Permanent Casing	Foot	150
Drilled Shaft in Soil	Cu. Yd.	471.3
Treated Timber Lagging	Sq. Ft.	382
Crosshole Sonic Logging Access Ducts	Foot	450
Crosshole Sonic Logging Testing	Each	2
Foundation Construction at Existing Obstructions	Each	1



TYPICAL CROSS SECTION

(Looking Upstation)

7:09:19 PM 0161702-62J31-S002-GenData.dgn



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	CHECKED - DJG	REVISED
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PLOT DATE = 8/13/2019	CHECKED - KRS	REVISED

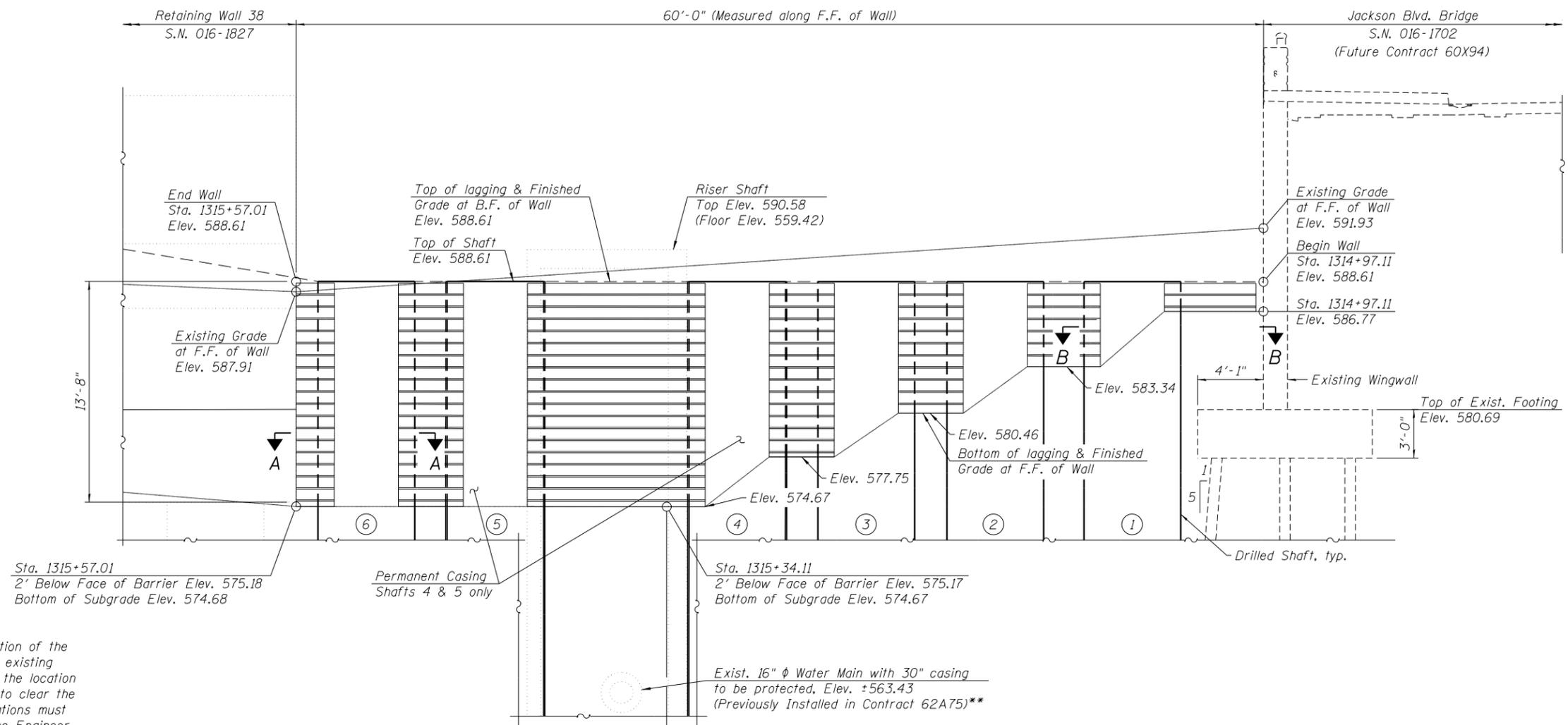
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL DATA
JACKSON BLVD. SOUTHWEST WINGWALL (STRUCTURE NO. 016-1702)

SHEET NO. S2-02 OF S2-06 SHEETS

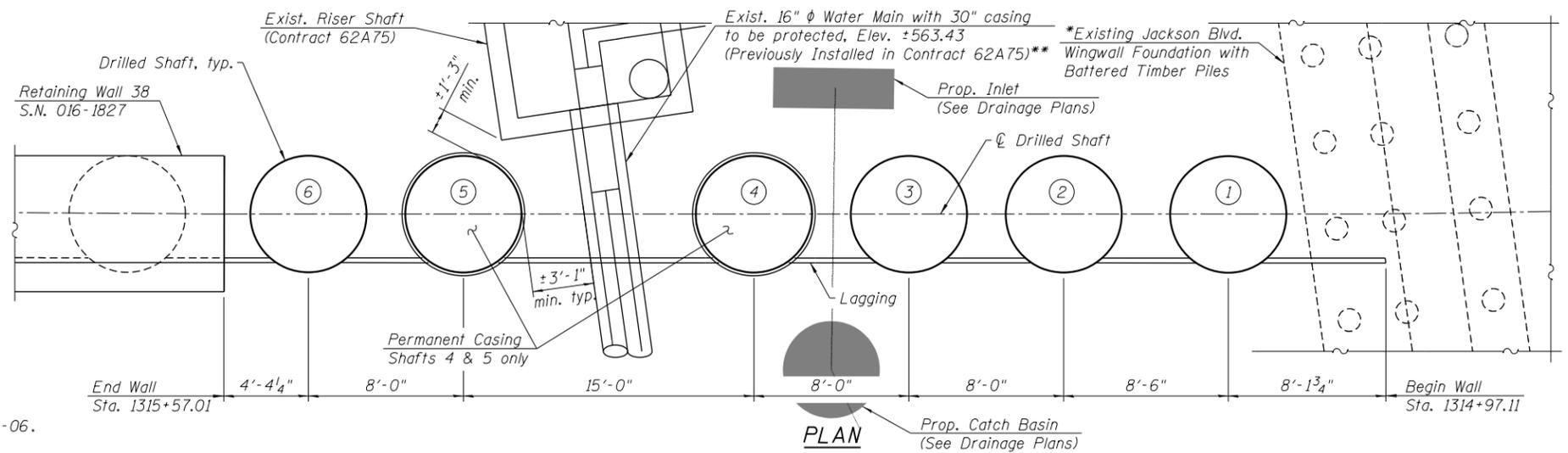
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	309
				CONTRACT NO. 62J31

ILLINOIS FED. AID PROJECT



WALL ELEVATION
(Looking West)

Drilled shaft reinforcement not shown for clarity



PLAN

*Contractor must verify the location of the existing wingwall footing for the existing Jackson Blvd. Bridge and adjust the location of Drilled Shaft 1 as necessary to clear the wingwall foundation. Revised locations must be submitted and approved by the Engineer.

**Contractor must verify the location of the existing 16\"/>

Notes:
Work this sheet with Sheets S2-03 to S2-04 of S2-06.
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
Drilled Shafts shall be tested in accordance with Special Provision for Crosshole Sonic Logging Testing of Drilled Shafts.
See Drilled Shaft Layout Table on Sheet S2-04 of S2-06.

6:42:06 PM 0161702-62J31-S003-Plan-Elevation1.dgn



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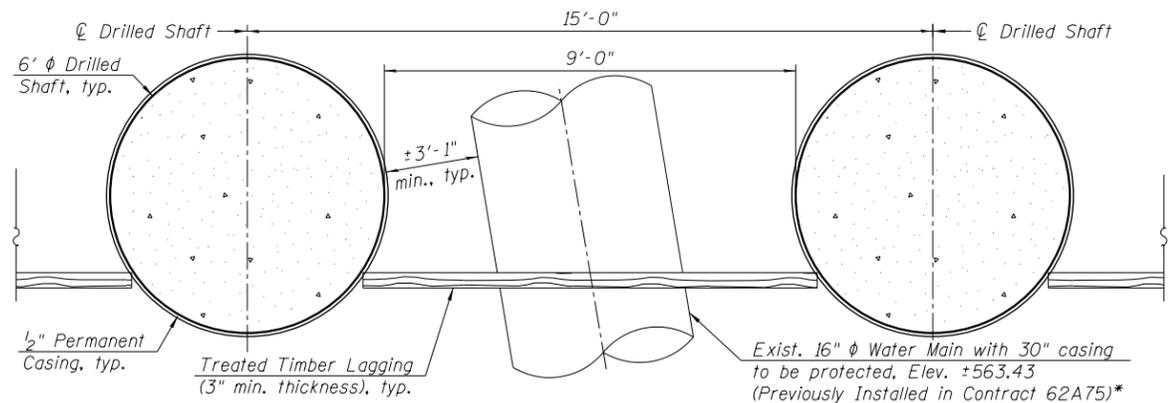
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
JACKSON BLVD. SOUTHWEST WINGWALL (STRUCTURE NO. 016-1702)

SHEET NO. S2-03 OF S2-06 SHEETS

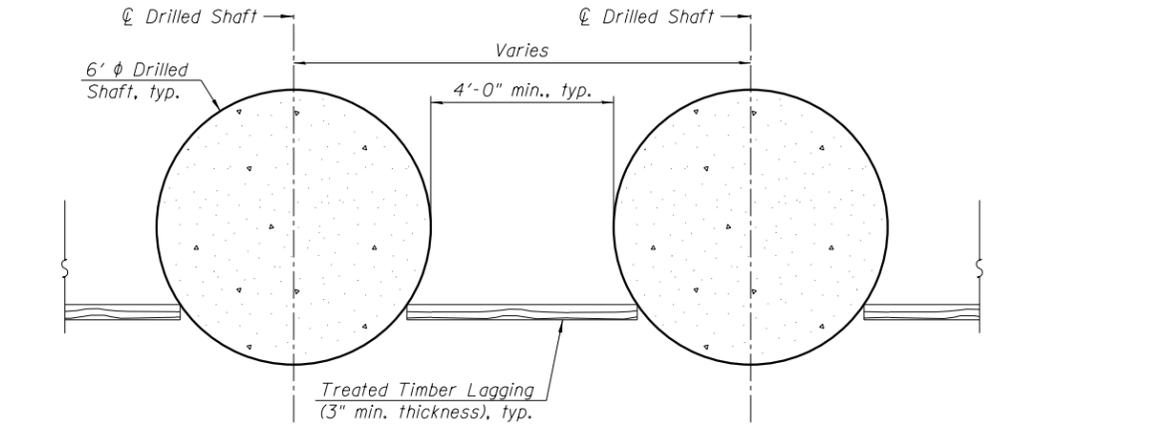
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	310
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

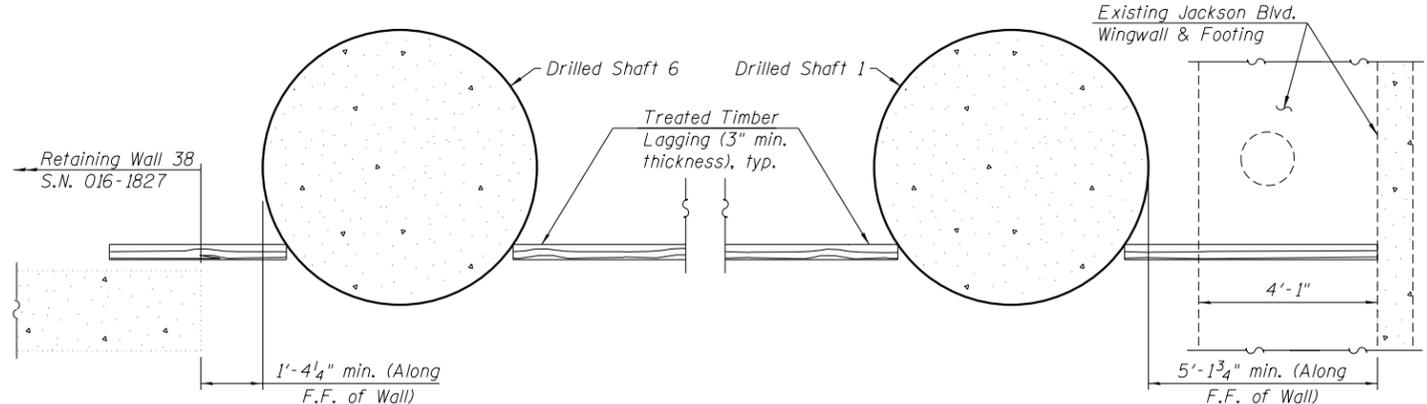


*Contractor must verify the location of the existing 16" ϕ water main with 30" casing and adjust the locations of Drilled Shafts 4 & 5 as necessary to maintain a 3'-1" minimum clearance of the water main casing. Revised locations must be submitted and approved by the Engineer.

TYPICAL WALL SECTION - SHAFTS 4-5
(Shaft reinforcement not shown for clarity)



TYPICAL WALL SECTION - SHAFTS 1-4 & 5-6
(Shaft reinforcement not shown for clarity)



SECTION A-A
(Shaft reinforcement not shown for clarity)

SECTION B-B
(Shaft reinforcement not shown for clarity)

Shaft Notes:
Install lagging from top down as excavation proceeds. Minimize over-excavation and backfill voids with dry loose sand.
The Contractor is responsible for the design and performance of the lagging system, the deflection of the lagging shall be limited to 1" maximum using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi, until the concrete facing is installed. The Contractor shall submit design calculations and details prepared by an Illinois Licensed Structural Engineer for the attachment of the lagging to the shaft and existing wingwall for approval by the Engineer. Alternative equivalent systems may be submitted for approval by the Engineer.

***** Shaft Reinforcement Notes:**
Splice v106 bars with v107 bars or v107 bars with v106 bars.
Splice sp100 and sp101 bars where they meet.
When splicing spiral reinforcement is necessary, the spiral shall be provided with 1 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.

DRILLED SHAFT LAYOUT TABLE

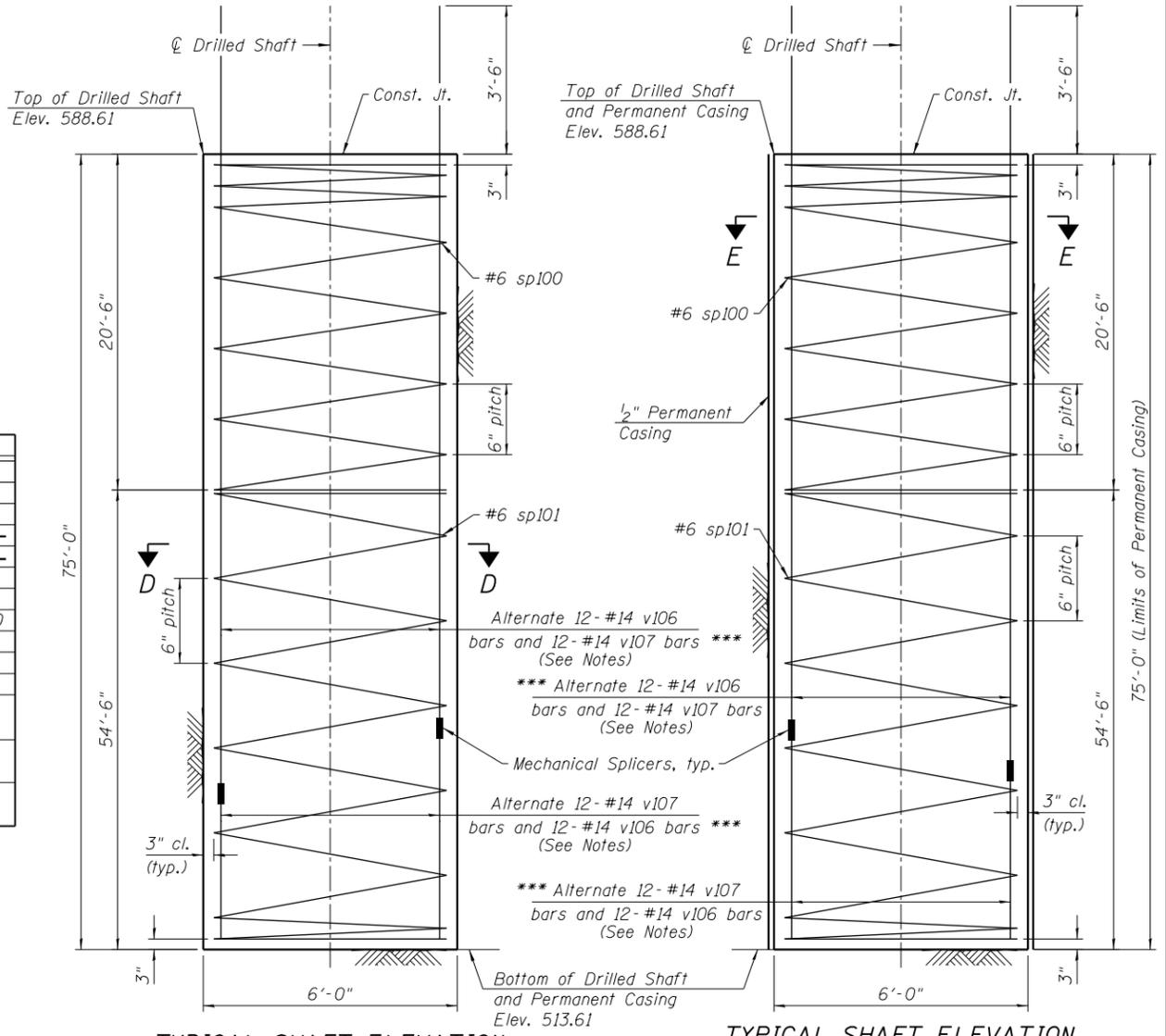
(Stations and Offsets measured to centerline of drilled shafts)

Shaft No.	Station	Offset
1	1315+05.01	10.53' Rt.
2	1315+13.50	11.00' Rt.
3	1315+21.49	11.45' Rt.
4	1315+29.48	11.89' Rt.
5	1315+44.45	12.72' Rt.
6	1315+52.44	13.17' Rt.

BILL OF MATERIAL

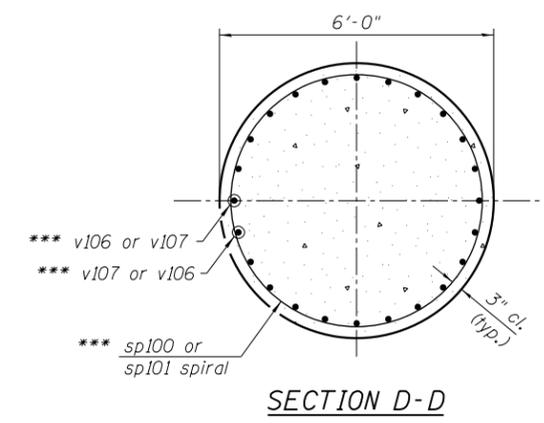
Bar	No.	Size	Length	Shape
** sp100	6	#6	20'-3"	AAA
** sp101	6	#6	54'-3"	AAA
v106	144	#14	37'-2"	---
v107	144	#14	41'-2"	---
Structure Excavation		Cu. Yd.	95	
Reinforcement Bars		Pound	110,320	
Permanent Casing		Foot	150	
Drilled Shaft in Soil		Cu. Yd.	471.3	
Treated Timber Lagging		Sq. Ft.	382	
Crosshole Sonic Logging		Foot	450	
Access Ducts				
Crosshole Sonic Logging		Each	2	
Foundation Construction at Existing Obstructions		Each	1	

** Length is height of spiral.
(See Shaft Reinforcement Notes this sheet.)

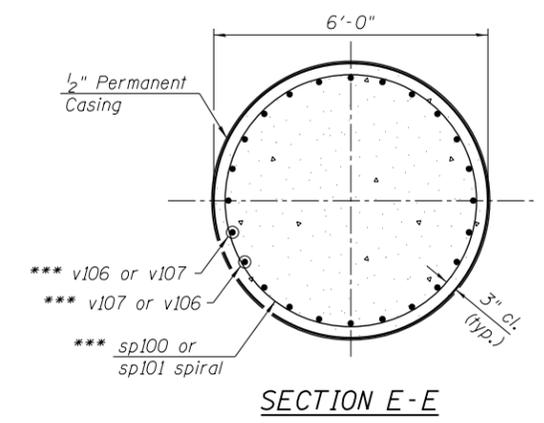


TYPICAL SHAFT ELEVATION

TYPICAL SHAFT ELEVATION PERMANENTLY CASSED
Shafts 4 and 5 only



SECTION D-D



SECTION E-E

7:10:13 PM 0161702-62J31-S004-WallDetails-1.dgn



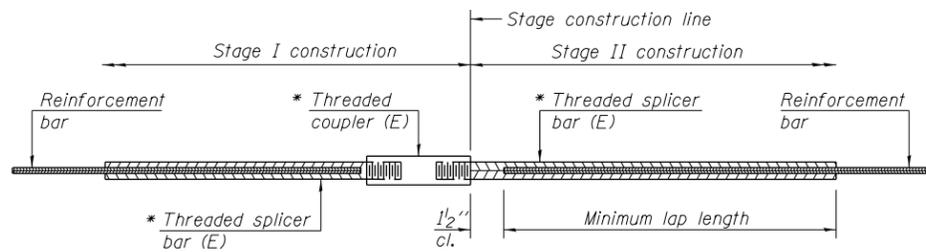
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PLOT SCALE = 0.1667' / in.	CHECKED - DJG	REVISIONS
PLOT DATE = 8/13/2019	DRAWN - AJD	REVISIONS
	CHECKED - KRS	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WALL SECTIONS AND DETAILS
JACKSON BLVD. SOUTHWEST WINGWALL (STRUCTURE NO. 016-1702)**

SHEET NO. S2-04 OF S2-06 SHEETS

F.A.U. RTE. 290	SECTION 2019-054-I	COUNTY COOK	TOTAL SHEETS 400	SHEET NO. 311
CONTRACT NO. 62J31				ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

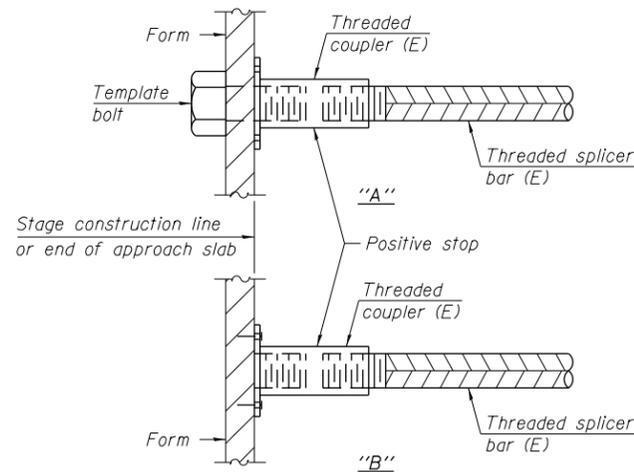
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

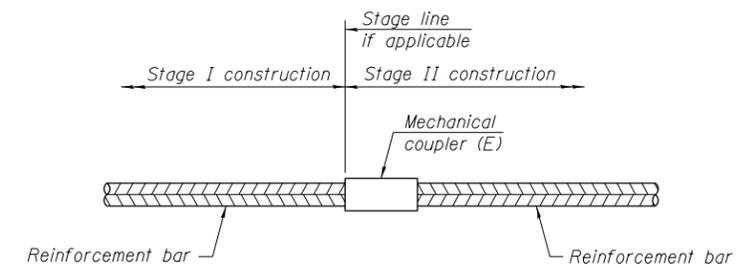
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

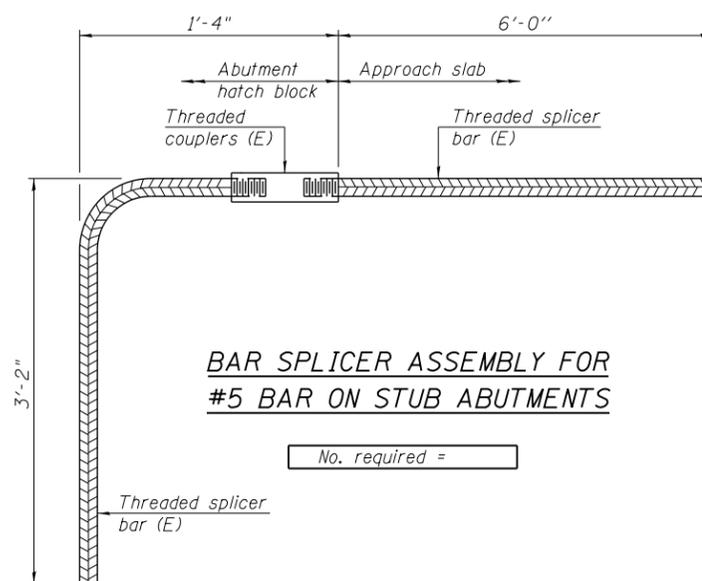


STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Drilled Shaft 1	14	24
Drilled Shaft 2	14	24
Drilled Shaft 3	14	24
Drilled Shaft 4	14	24
Drilled Shaft 5	14	24
Drilled Shaft 6	14	24

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.



No. required =

7:10:34 PM 01/17/2022-62J31-S005-Bar Splicer.dgn



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PLOT DATE = 8/13/2019	DRAWN - AJD	REVISED
	CHECKED - KRS	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
JACKSON BLVD. SOUTHWEST WINGWALL (STRUCTURE NO. 016-1702)**

SHEET NO. S2-05 OF S2-06 SHEETS

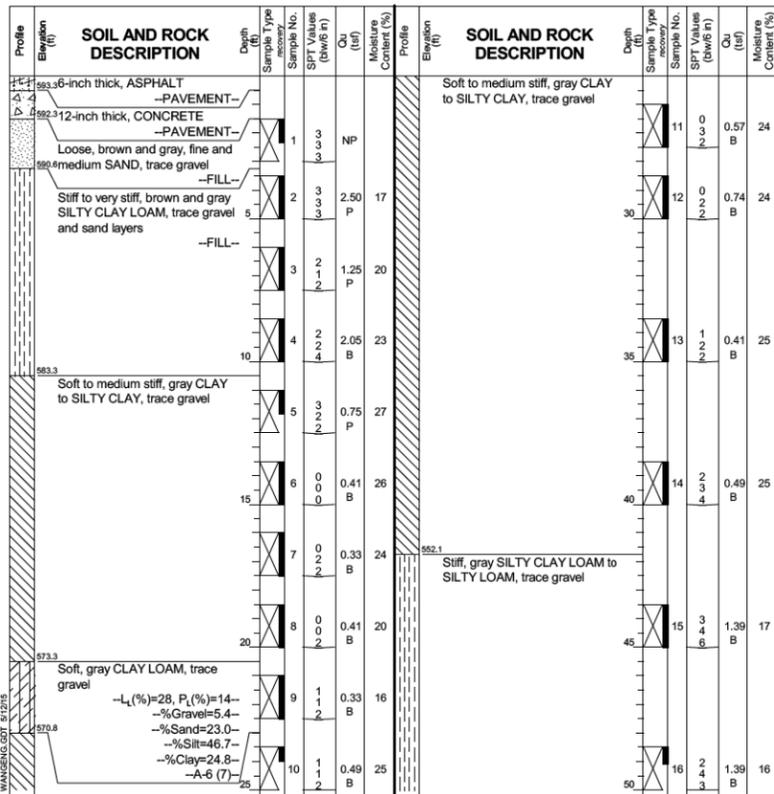
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	312
ILLINOIS FED. AID PROJECT				CONTRACT NO. 62J31

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 1702-B-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1898949.46 ft
East: 1171361.60 ft
Station: 8211+87.78
Offset: 18.3545 RT

Page 1 of 3



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

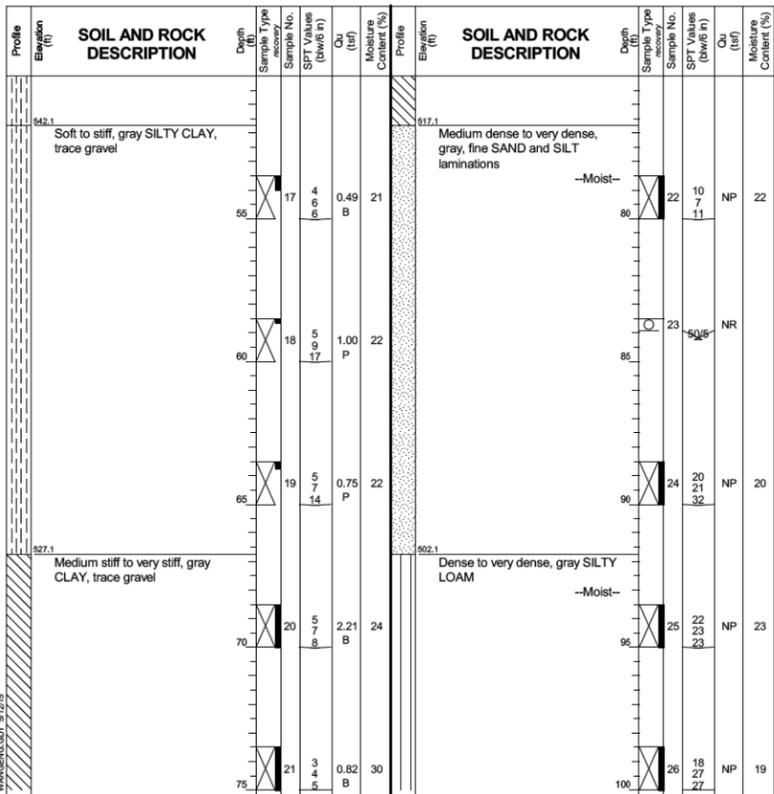
WATER LEVEL DATA
While Drilling Rotary wash
At Completion of Drilling unable to measure
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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Page 2 of 3



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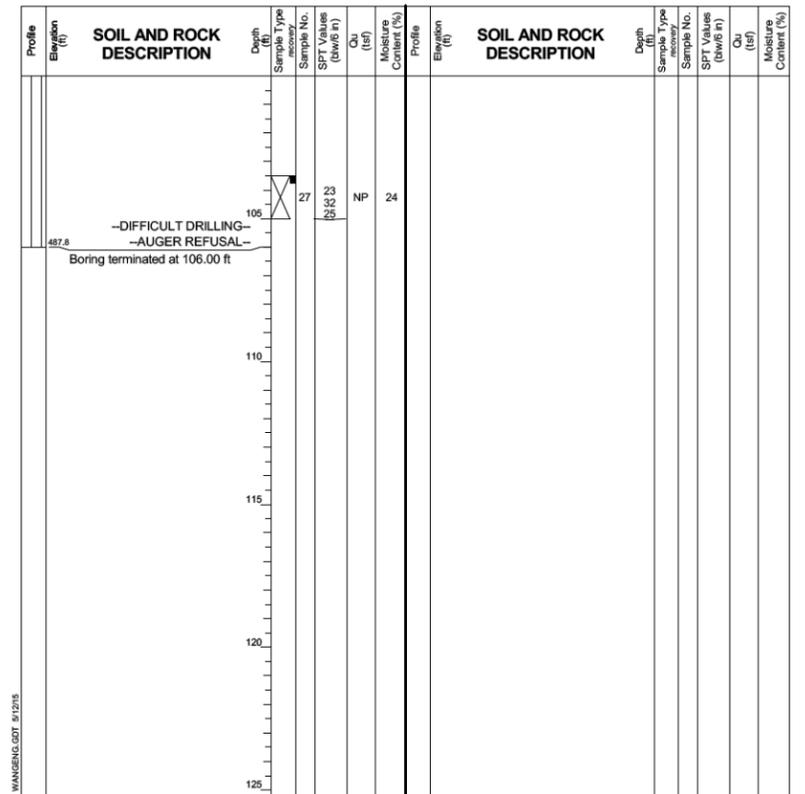
WATER LEVEL DATA
While Drilling Rotary wash
At Completion of Drilling unable to measure
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 1702-B-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.83 ft
North: 1898949.46 ft
East: 1171361.60 ft
Station: 8211+87.78
Offset: 18.3545 RT

Page 3 of 3



GENERAL NOTES
Begin Drilling 06-17-2014 Complete Drilling 06-17-2014
Drilling Contractor Wang Testing Services Drill Rig B-57 TMR
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 Rotary wash
At Completion of Drilling unable to measure
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

7:10:58 PM
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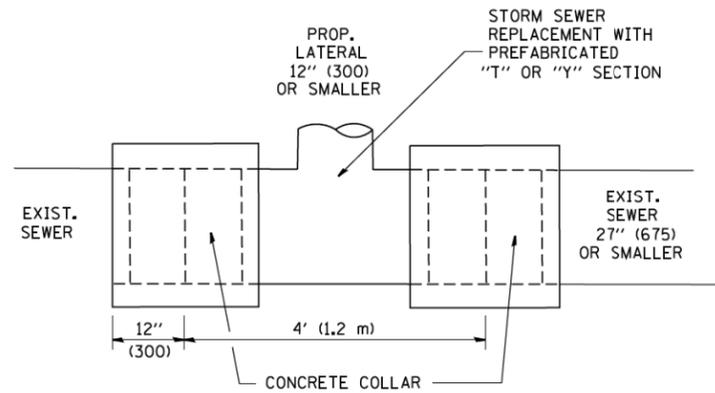
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PLOT DATE = 8/13/2019	DRAWN - LFP	REVISED
	CHECKED - KRS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
JACKSON BLVD. SOUTHWEST WINGWALL (STRUCTURE NO. 016-1702)
SHEET NO. S2-06 OF S2-06 SHEETS

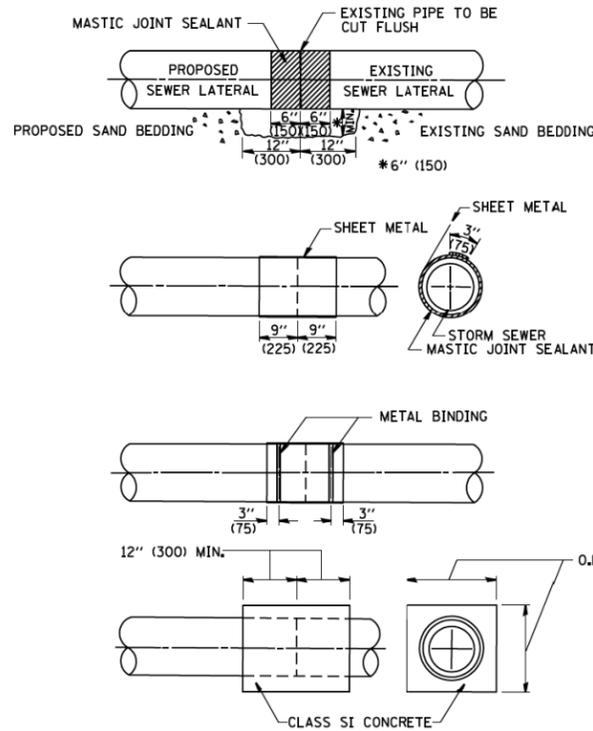
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	313
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

Notes:
Boring Log 1702-B-01 Station and Offset along Prop. Ramp SW are: Sta. 1314+80.80, Offset 13.91 Rt.



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

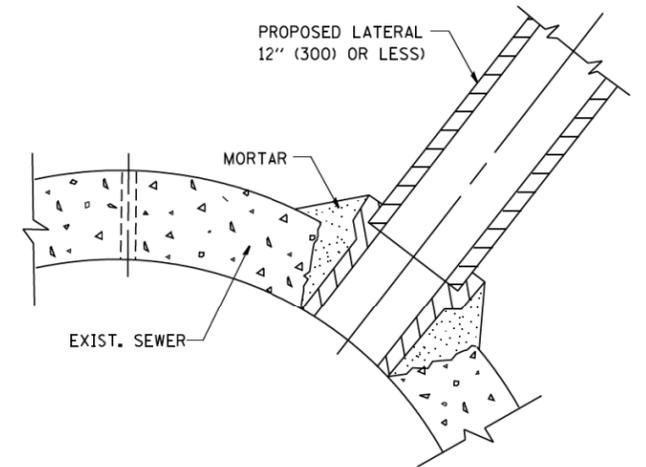


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. • 90/94/290

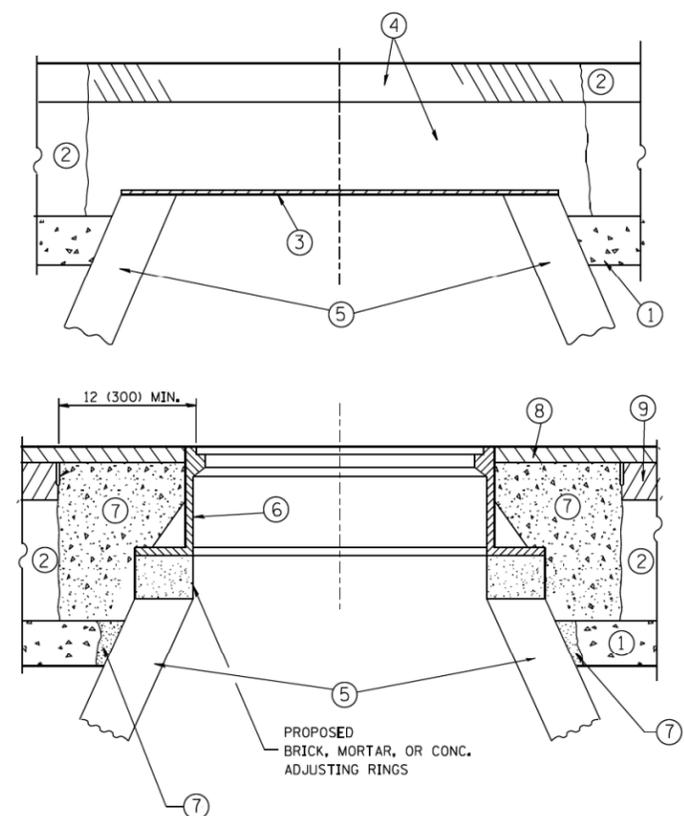
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	PLOT DATE = 1/4/2008	CHECKED -	REVISED - R. SHAH 10-25-94
		DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	314
BD500-01 (BD-7)			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

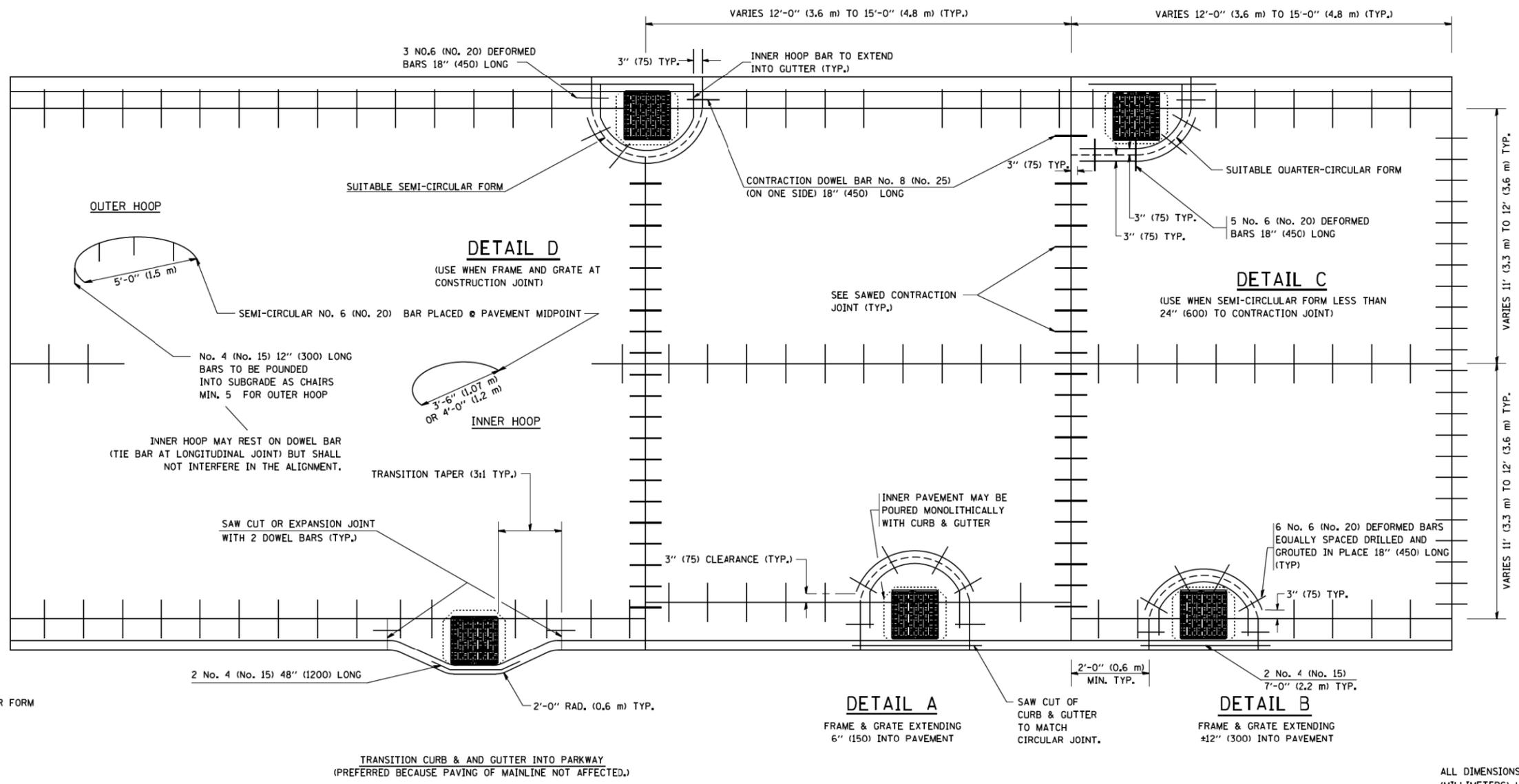
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ca\pwork\pwork\dot\bauerdl\0108315\bd08.dgn		DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	2019-054-1	COOK	400	315
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED - R. BORO 03-09-11				TO STA.	BD600-03 (BD-8)		CONTRACT NO.	
PLOT DATE = 12/6/2011		DATE = 10-25-94	REVISED - R. BORO 12-06-11					FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT	

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

DESIGNER NOTE:
THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"

NOTES:

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT. EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.



LEGEND:
 CASTING
 - - - - - SUITABLE SEMI-CIRCULAR FORM

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

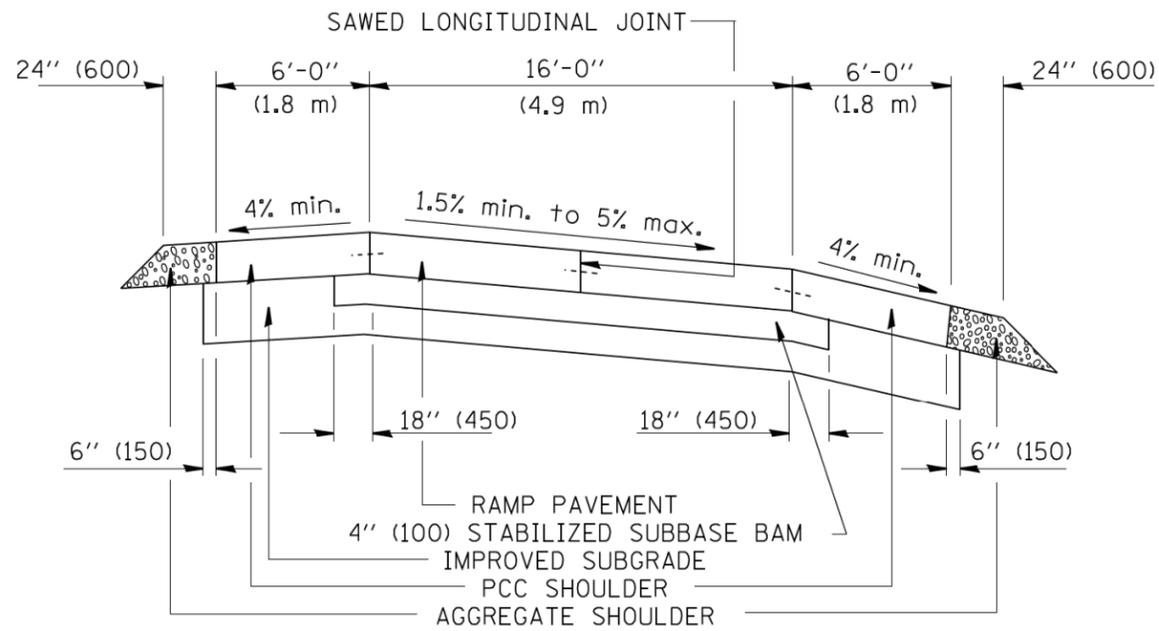
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	PLOT DATE = 1/4/2008	DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

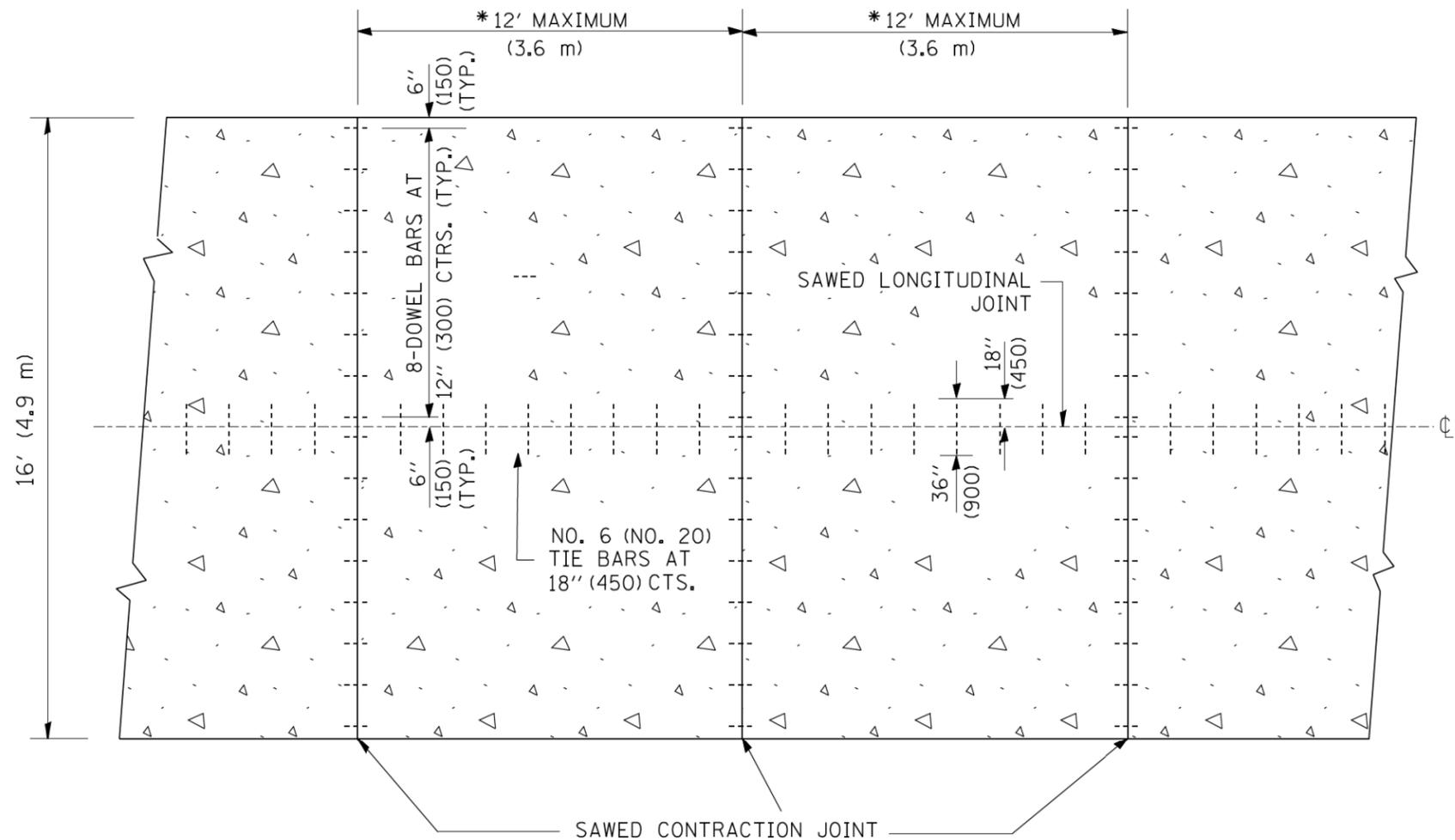
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BD-48		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

90/94/290

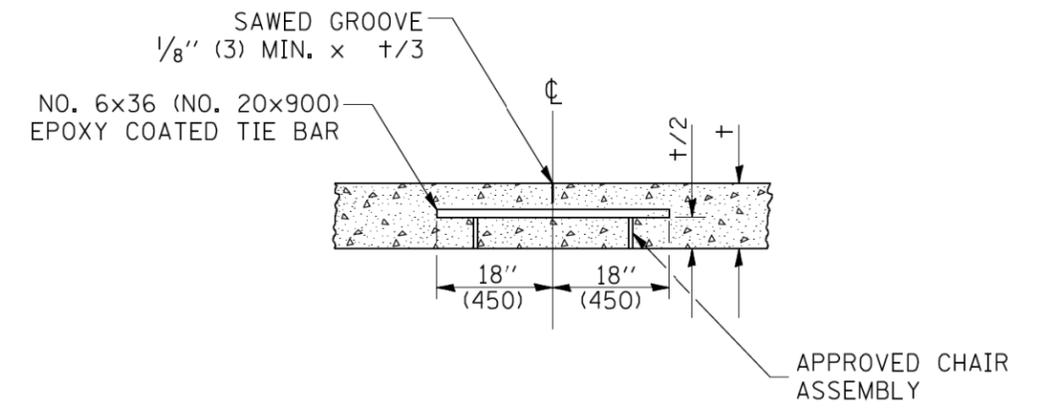


SECTION

- NOTES:**
1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) RAMPS AT 12' (3.6 m).
 2. ALL BARS TO BE EPOXY COATED.



PLAN

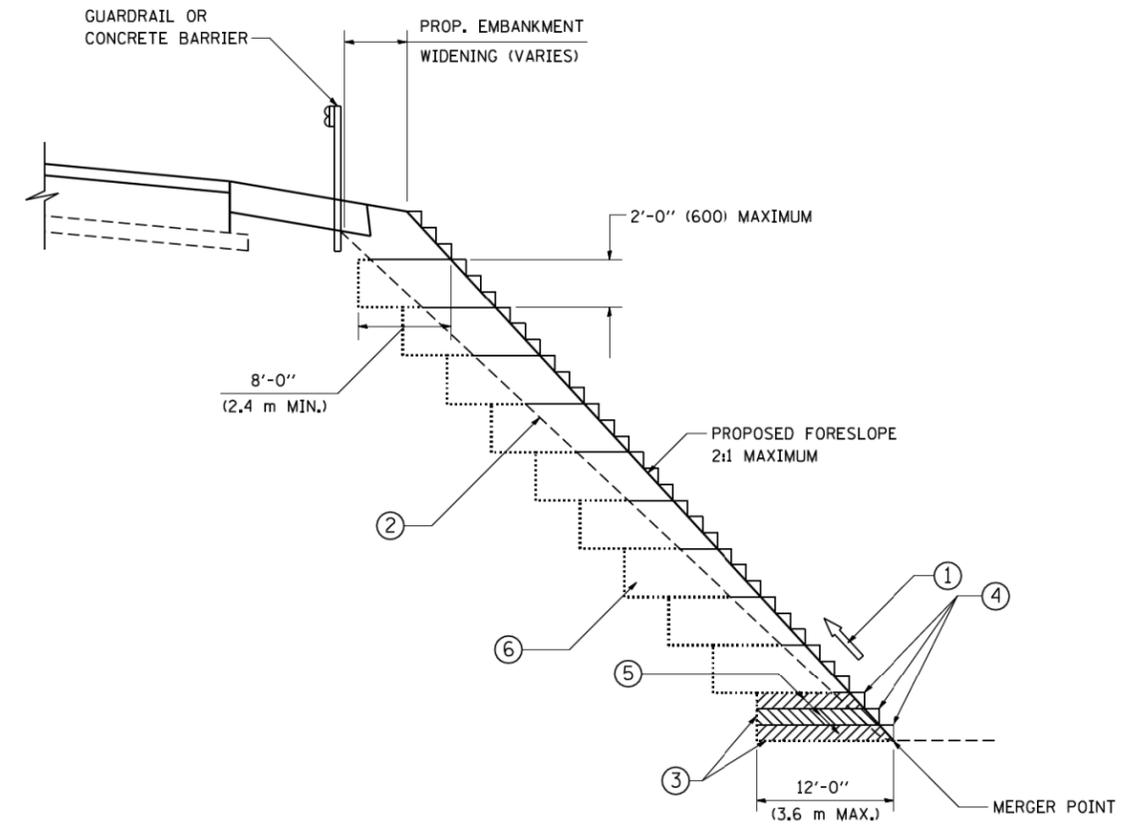


SAWED LONGITUDINAL JOINT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

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	PLOT SCALE = 50.0000 ' / IN.	DRAWN - TOM MATOUSEK	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2019-054-1	COOK	400	317
	PLOT DATE = 1/4/2008	CHECKED - A. ABBAS	REVISED -						BD49			
		DATE - 10-18-02	REVISED -						FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT		

• 90/94/290



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

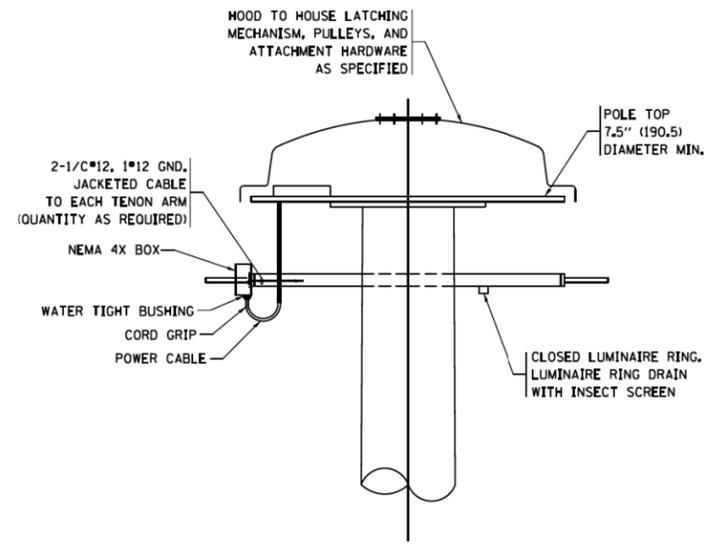
- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD-51			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

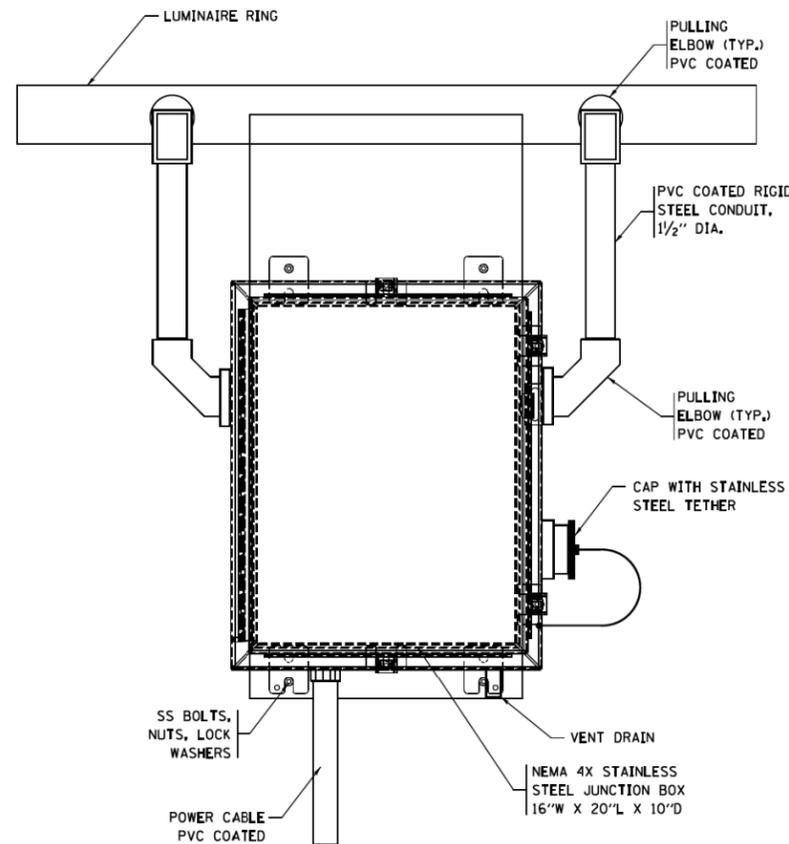
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

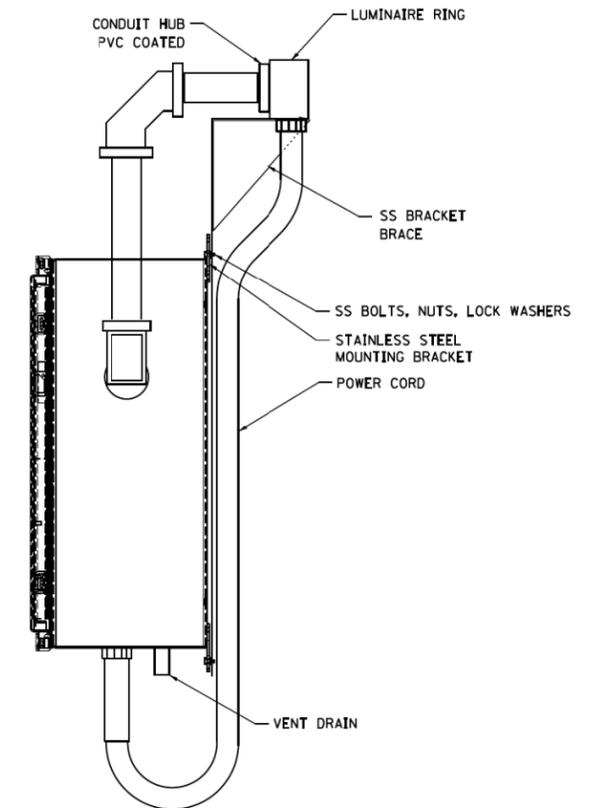
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		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -



DETAIL-"D"

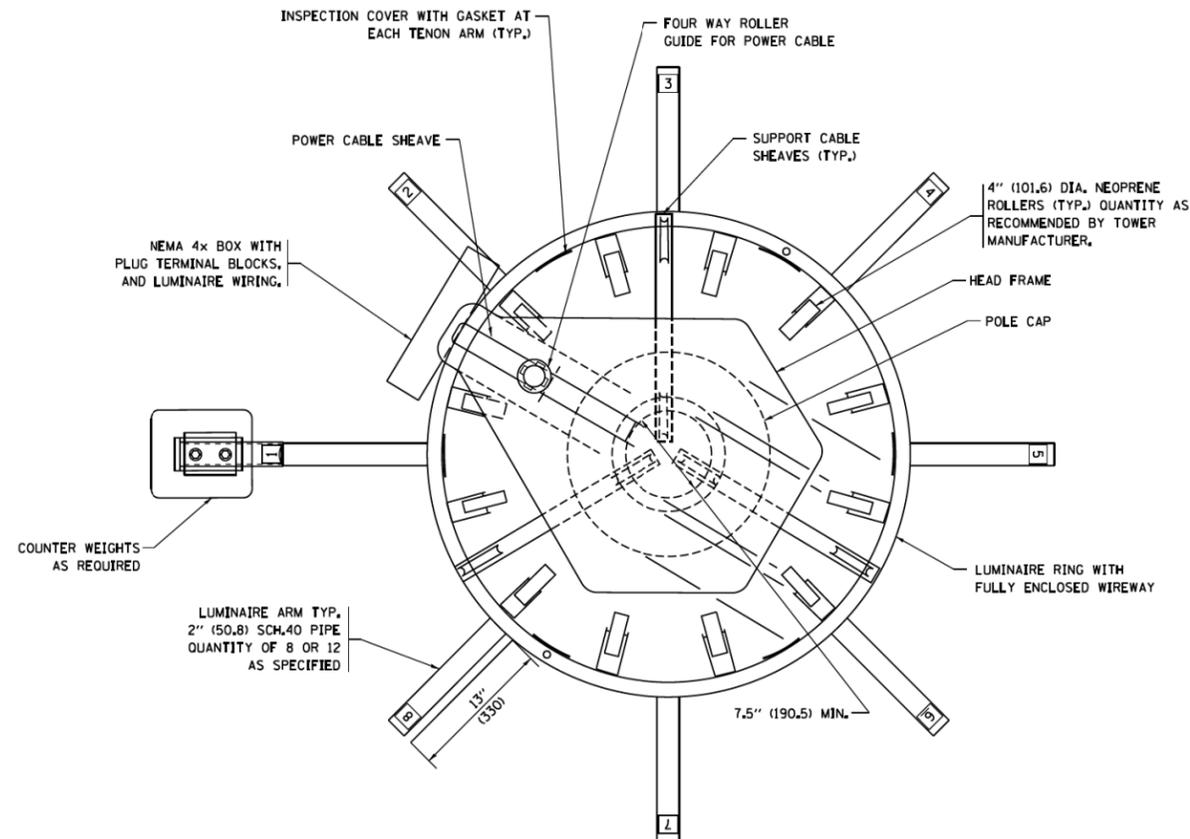


**FRONT VIEW
N.T.S.**



**SIDE VIEW
N.T.S.**

LUMINAIRE RING TERMINAL BOX



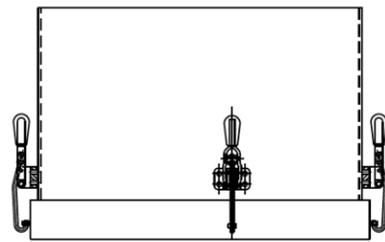
NOTES:

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.

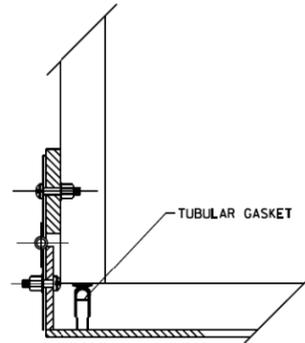
• 90/94/290

FILE NAME = p:\IL084EBIDINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\CAD\CADData\CADsheets\be500.dgn	USER NAME = footemj	DESIGNED - DRAWN -	REVISED - R. TOMSONS 09-02-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER 100 FT TO 160 FT (30 m TO 49 m)		F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000' / 1" =	CHECKED -	REVISED - R. TOMSONS 02-27-13	REVISED - R. TOMSONS 04-29-16		•	2019-054-I	COOK	400	320		
PLOT DATE = 7/27/2016	DATE -	REVISED - R. TOMSONS 07-26-16	REVISED - R. TOMSONS 07-26-16		BE-500		CONTRACT NO.				
Default					ILLINOIS FED. AID PROJECT						

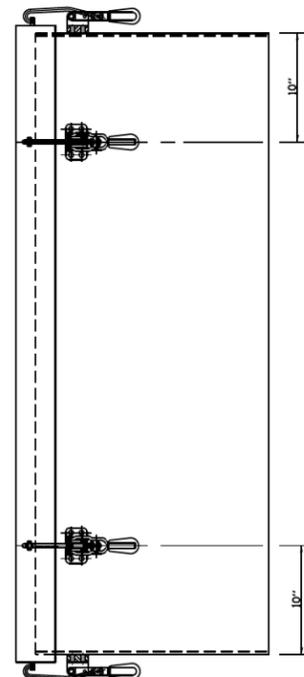
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.



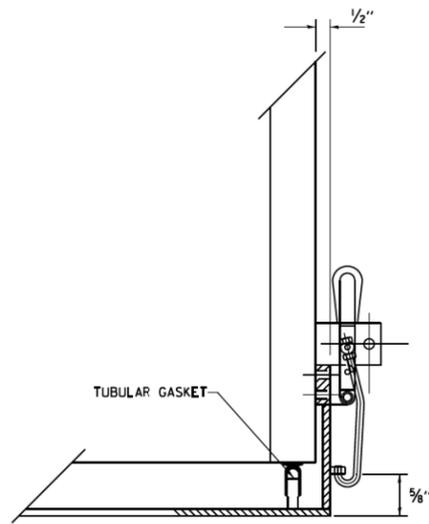
TOP VIEW



HINGE DETAIL

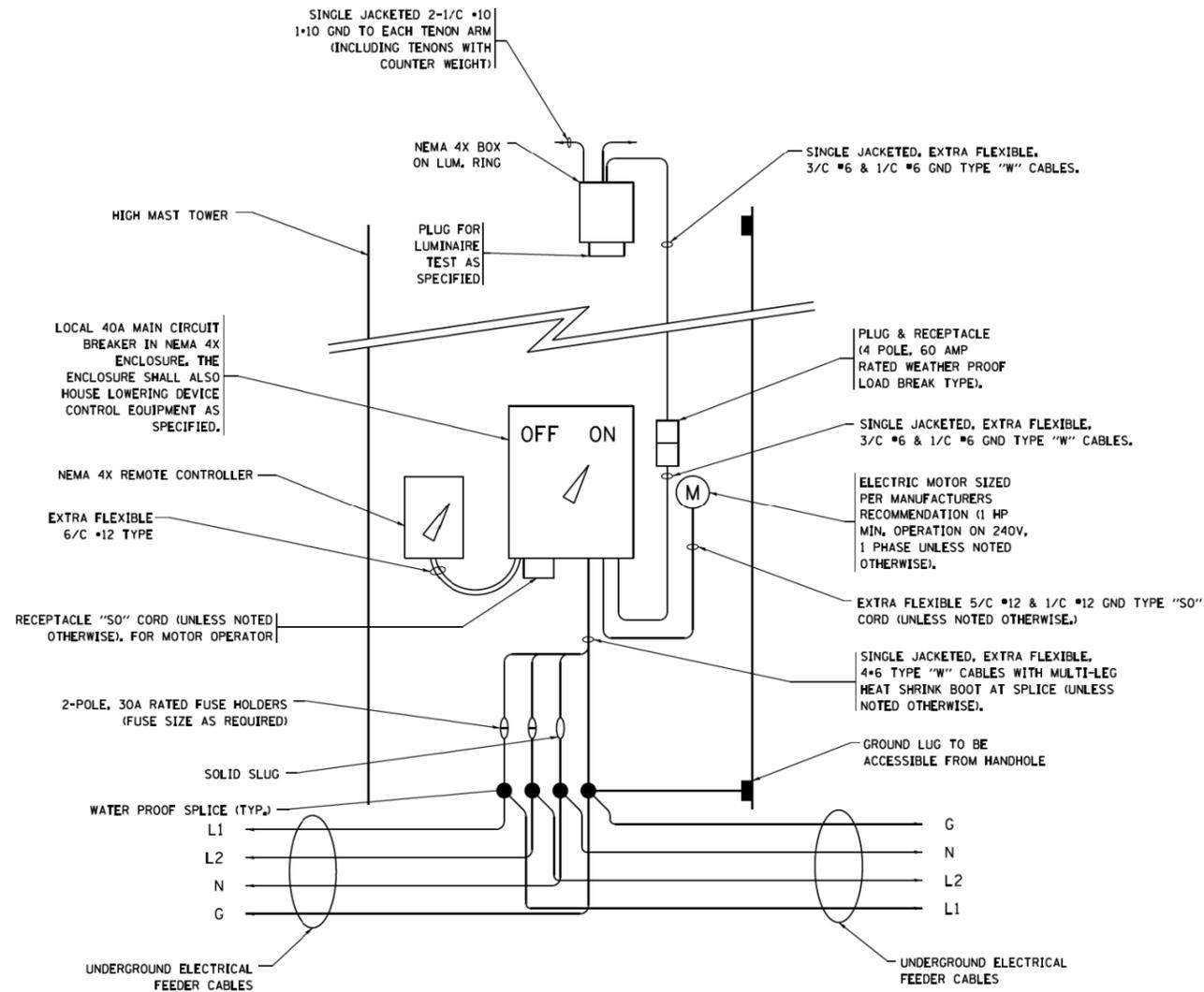


SIDE VIEW

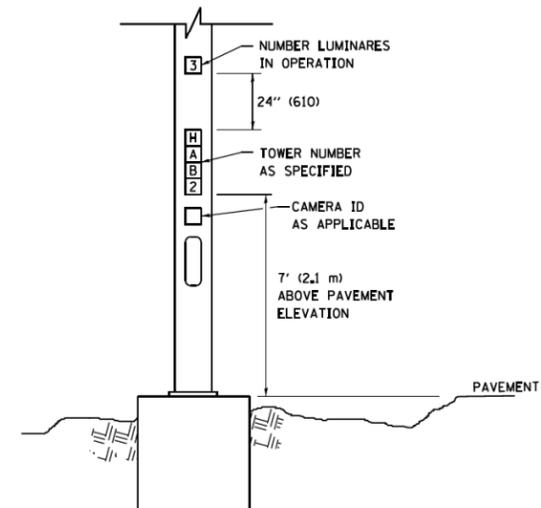


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10
p:\11084EBIDINTEG\111084EBIDINTEG\DWG\11084EBIDINTEG\11084EBIDINTEG.dwg	Documents\DOT Offices\District 1\Projects\District 1\Projects\District 1\CADData\CADsheets\be500.dgn	CHECKED -	REVISED - R. TOMSONS 02-27-13
		DATE -	REVISED - R. TOMSONS 04-29-16
			REVISED - R. TOMSONS 07-26-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

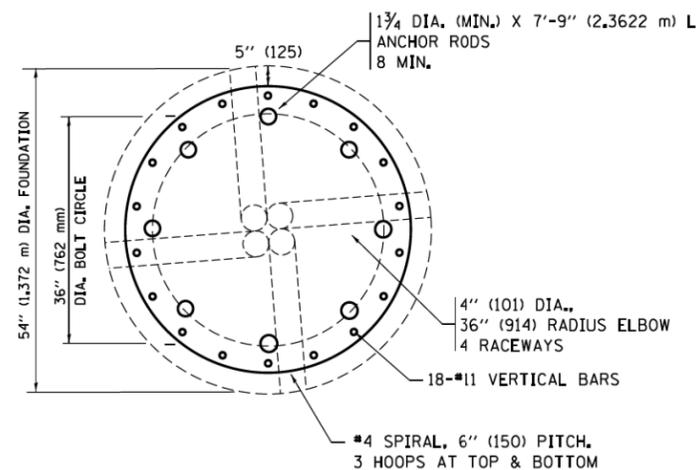
HIGH MAST LIGHT TOWER	
100 FT TO 160 FT (30 m TO 49 m)	
SCALE:	SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	321
BE-500		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

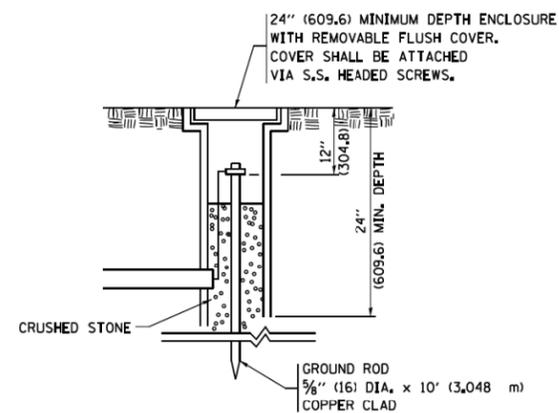
DESIGN NOTES

- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- THE TOP OF THE FOUNDATION TO 18" (457) BELOW GRADE SHALL BE FORMED.
- SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

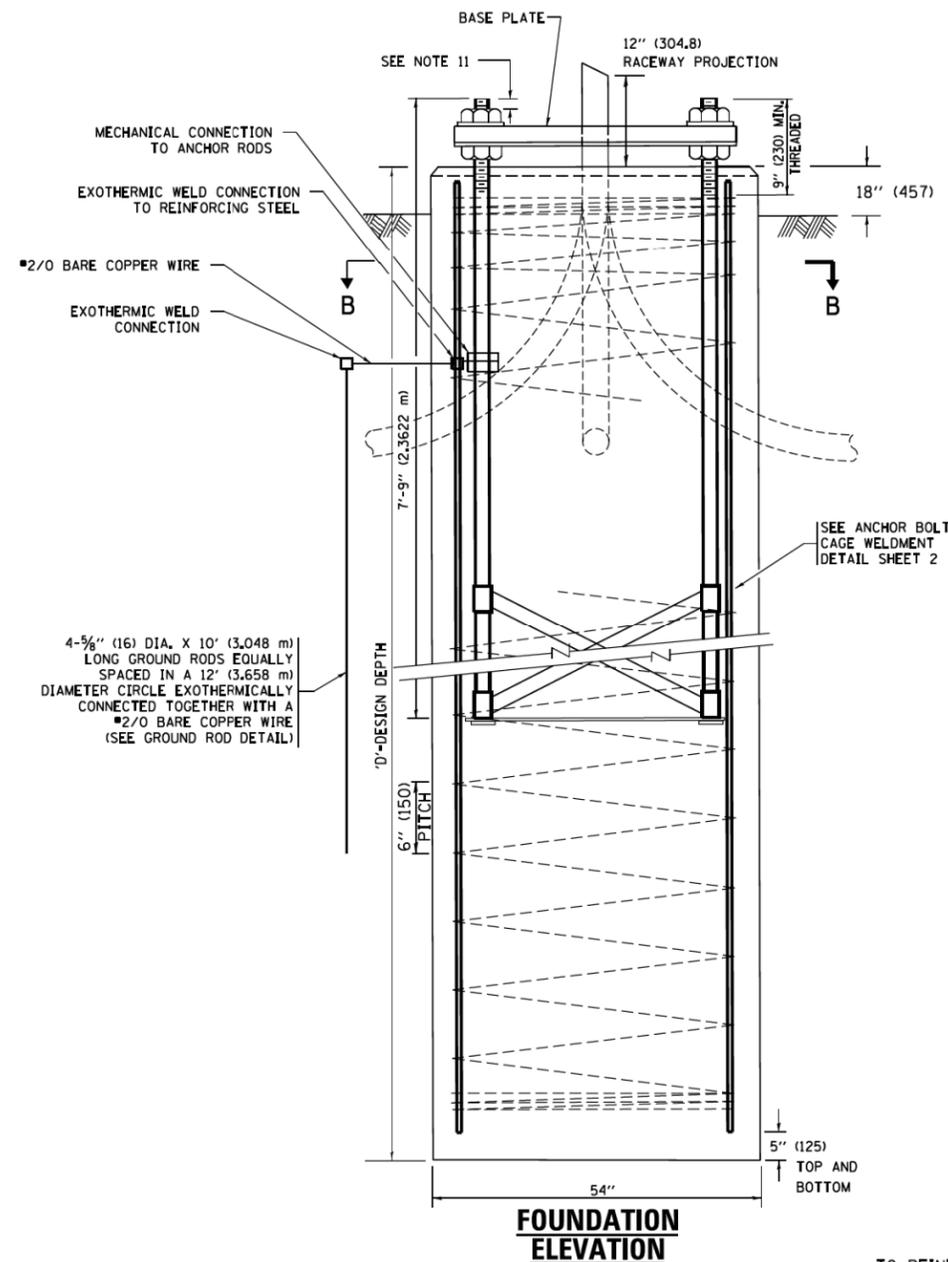
SHAFT LENGTH (D) TABLE					
SOIL CONSISTENCY		AVERAGE STRENGTH	LIGHT TOWER MOUNTING HEIGHT		
		Qu In tsf (Qu In kPa)	120 FT. (37 m)	130 FT. (40 m)	140 FT. (43 m)
SOFT		<0.5 (<50)	25'-0" (7.6 m)	26'-6" (8.0 m)	27'-6" (8.3 m)
	MEDIUM	0.5 TO 1 (50 TO 100)	20'-6" (6.2 m)	21'-6" (6.4 m)	22'-0" (6.7 m)
COHESIVE	STIFF	1 TO 2 (100 TO 200)	17'-6" (5.2 m)	18'-0" (5.4 m)	18'-6" (5.5 m)
	VERY STIFF	2 TO 4 (200 TO 400)	15'-0" (4.5 m)	15'-6" (4.6 m)	16'-0" (4.7 m)
	HARD	>4 (>400)	13'-6" (4.0 m)	13'-6" (4.1 m)	14'-0" (4.2 m)
		N In BLOWS/FT. (N In BLOWS/0.3m)			
	VERY LOOSE	<5 (<5)	19'-0" (6.3 m)	20'-0" (6.0 m)	20'-6" (6.2 m)
	LOOSE	5 TO 10 (5 TO 10)	17'-6" (5.7 m)	18'-0" (5.5 m)	18'-6" (5.6 m)
GRANULAR	MEDIUM	10 TO 25 (10 TO 25)	16'-6" (5.5 m)	17'-0" (5.2 m)	17'-6" (5.3 m)
	DENSE	25 TO 50 (25 TO 50)	15'-6" (5.2 m)	16'-6" (4.9 m)	16'-6" (5.0 m)
	VERY DENSE	>50 (>50)	15'-0" (4.5 m)	15'-6" (4.7 m)	16'-0" (4.8 m)



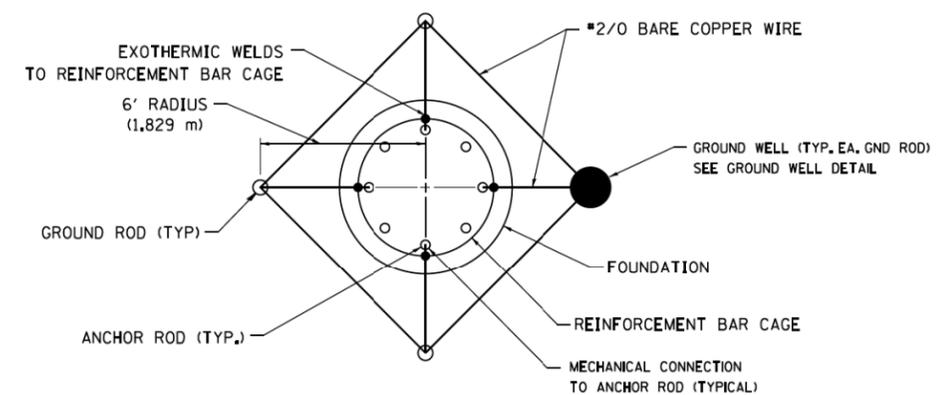
SECTION-B-B



GROUND WELL DETAIL



FOUNDATION ELEVATION



GROUND ROD DETAIL

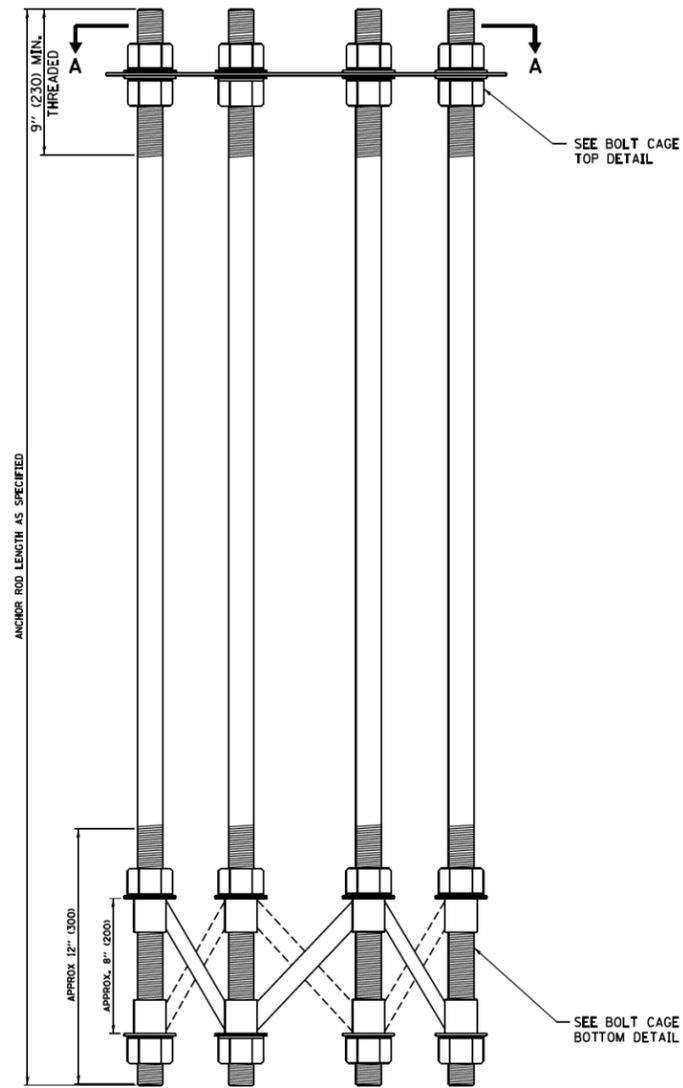
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p:\IL\084EBID\INTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\CAD\CADData\CADsheets\be506.dgn		CHECKED -	REVISED - R. TOMSONS 02-27-13
		DATE - 03-12-10	REVISED - R. TOMSONS 04-29-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

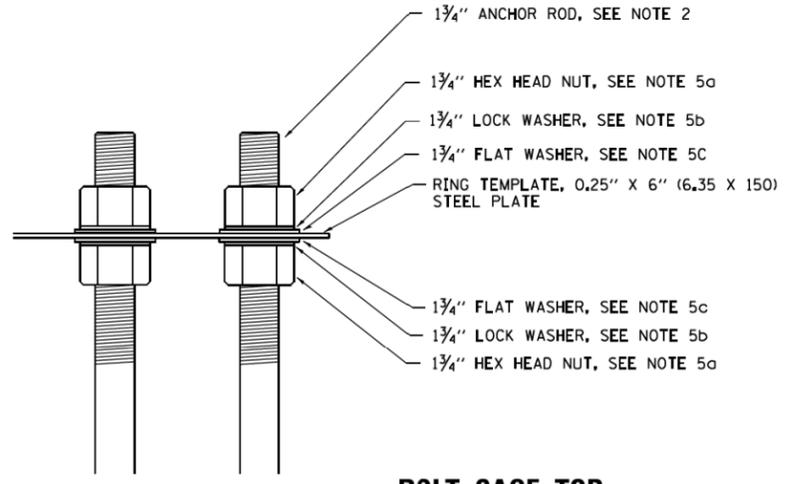
HIGH MAST LIGHT TOWER
120 FT TO 140 FT FOUNDATION DETAIL

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

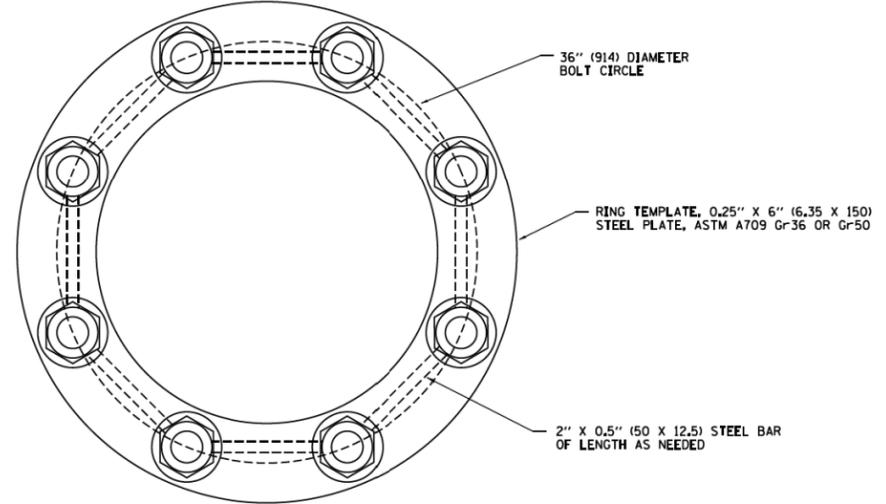
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2019-054-1	COOK	400	322
BE-506		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



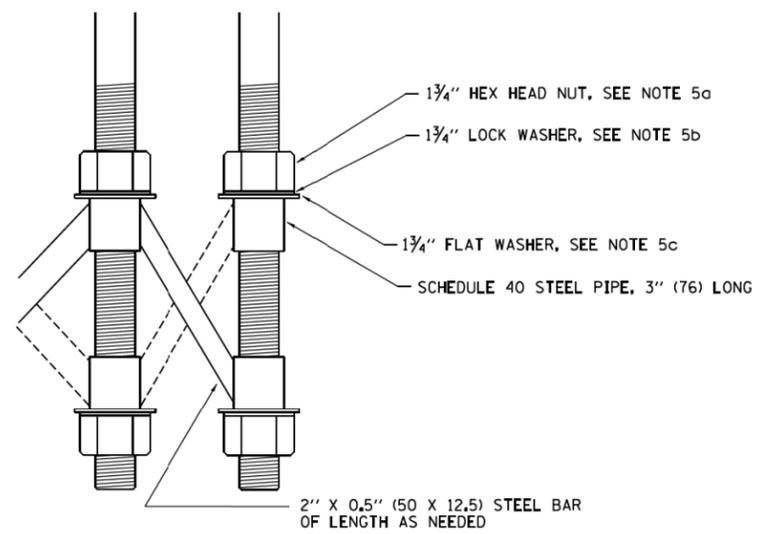
ANCHOR BOLT CAGE



BOLT CAGE TOP



SECTION A-A



BOLT CAGE BOTTOM

NOTES:

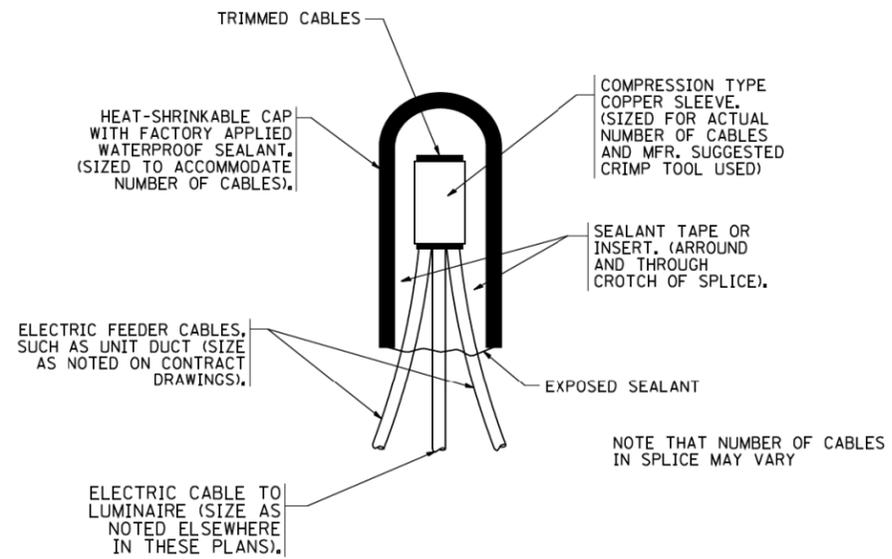
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - a) 1.5 (38) HEX HEAD NUTS
AASHTO M291, GRADE C, C3, D, DH OR DH3
HOT DIPPED GALVANIZED AASHTO M 232
 - b) 1.5 (38) HELICAL LOCK WASHERS
ANSI/ASME B18.21.1
I.D. 1.504 - 1.524
O.D. 2.159 MAX.
WIDTH 0.292 MIN.
THICKNESS 0.375 MIN.
HARDNESS 26-45 ROCKWELL C
HOT DIPPED GALVANIZED AASHTO M232
 - c) 1.5 (38) FLAT WASHERS
AASHTO M293
O.D. 2.75
I.D. 1.56
THICKNESS 0.16 - 0.25
HARDNESS 26-45 ROCKWELL C.
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

FILE NAME =	USER NAME = footemj	DESIGNED - R. TOMSONS 09-02-10	REVISED - R. TOMSONS 02-27-13
pwt\IL084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist	ORAWN\CADData\CADsheets\be506.dgn	CHECKED -	REVISED - R. TOMSONS 04-29-16
Default	PLOT SCALE = 50.000' / in.	DATE -	REVISED -
	PLOT DATE = 4/29/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER	
120 FT TO 140 FT FOUNDATION DETAIL	
SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.

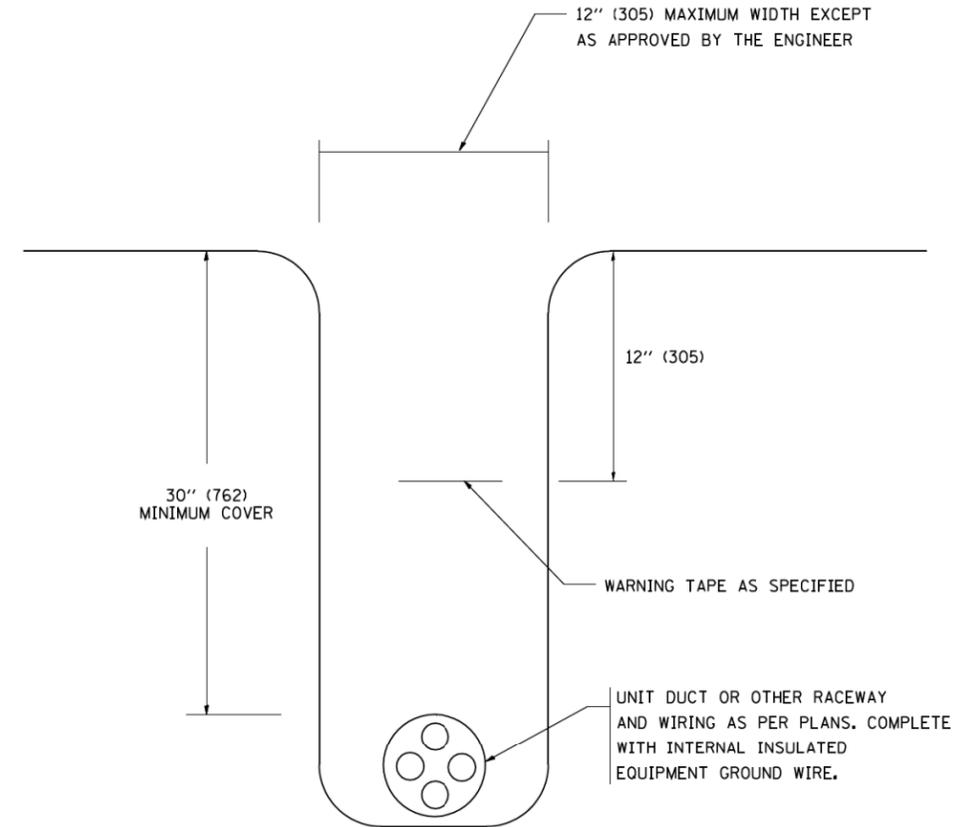
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	323
BE-506		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



TYPICAL SPLICE DETAIL

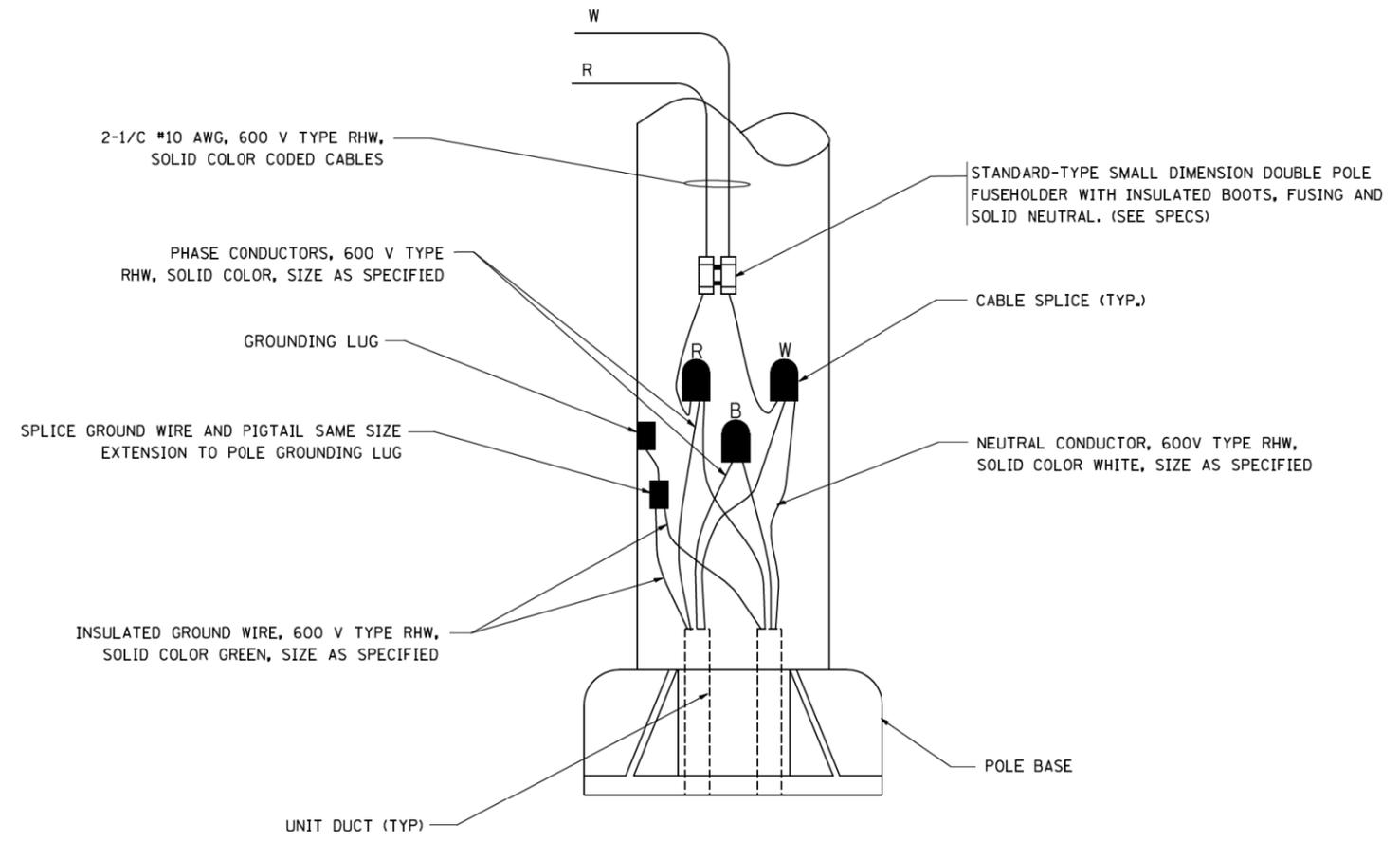
N.T.S.

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

FILE NAME =
W:\diststd\22x34\be702.dgn

USER NAME = gaglianobt
PLOT SCALE = 50.000' / IN.
PLOT DATE = 1/4/2008

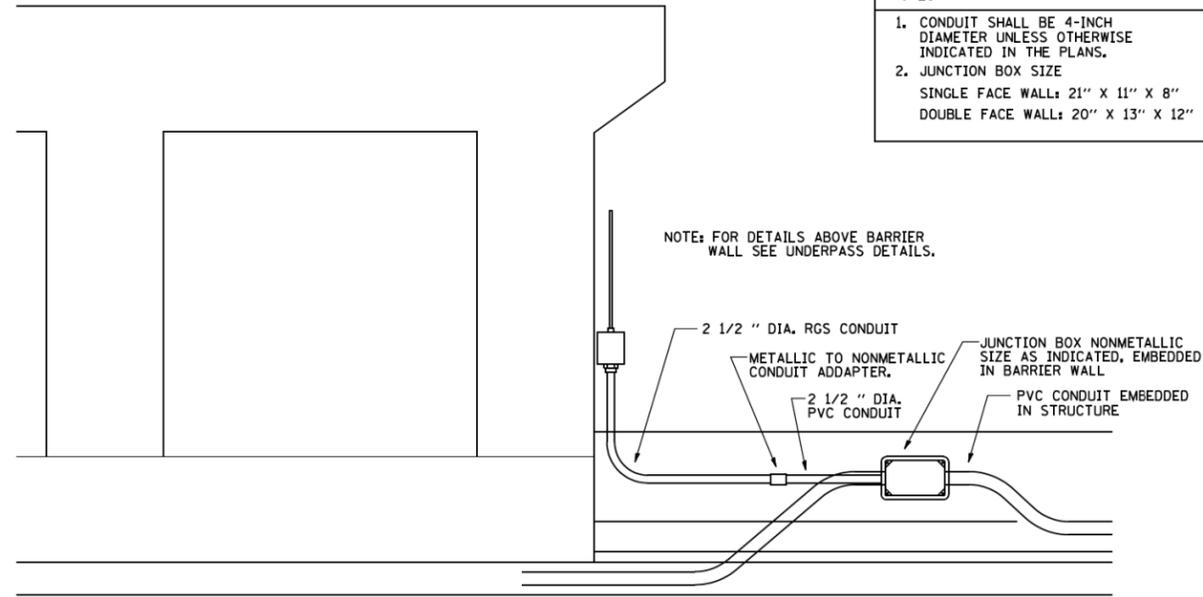
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

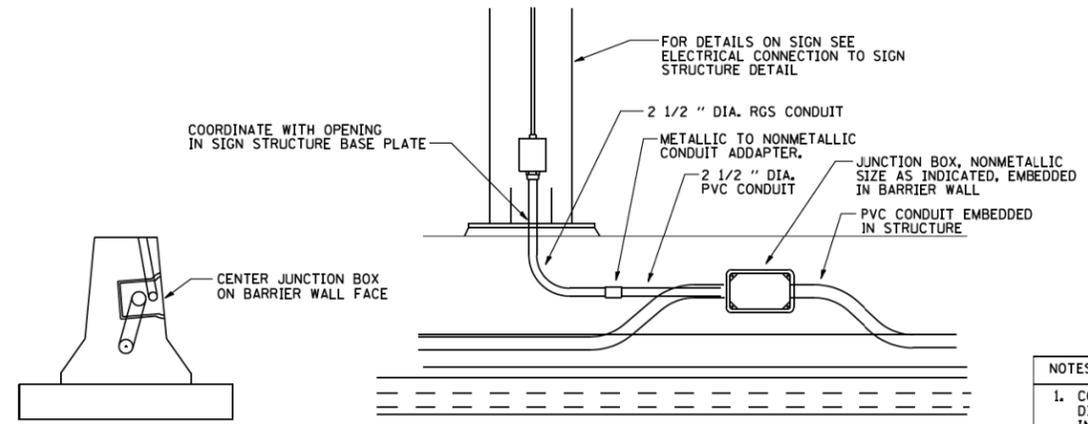
**MISC. ELECTRICAL DETAILS
SHEET A**
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
• 2019-054-1 COOK 400 324
BE-702 CONTRACT NO.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

NOTE: FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

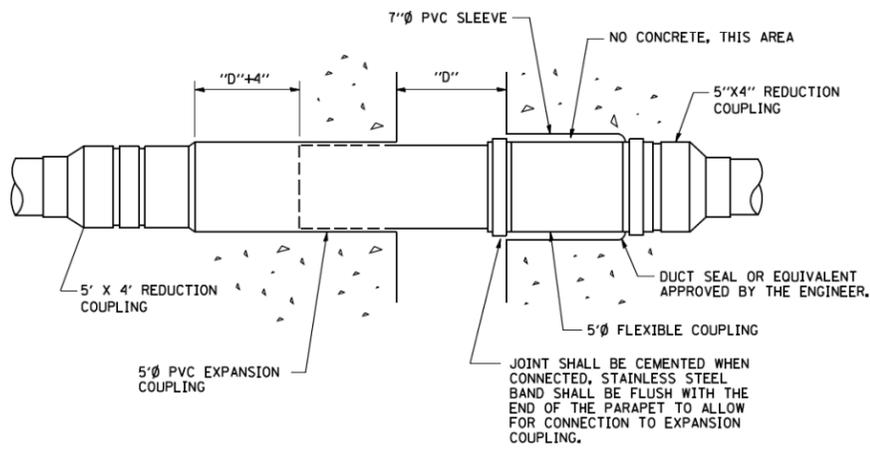


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - SGN

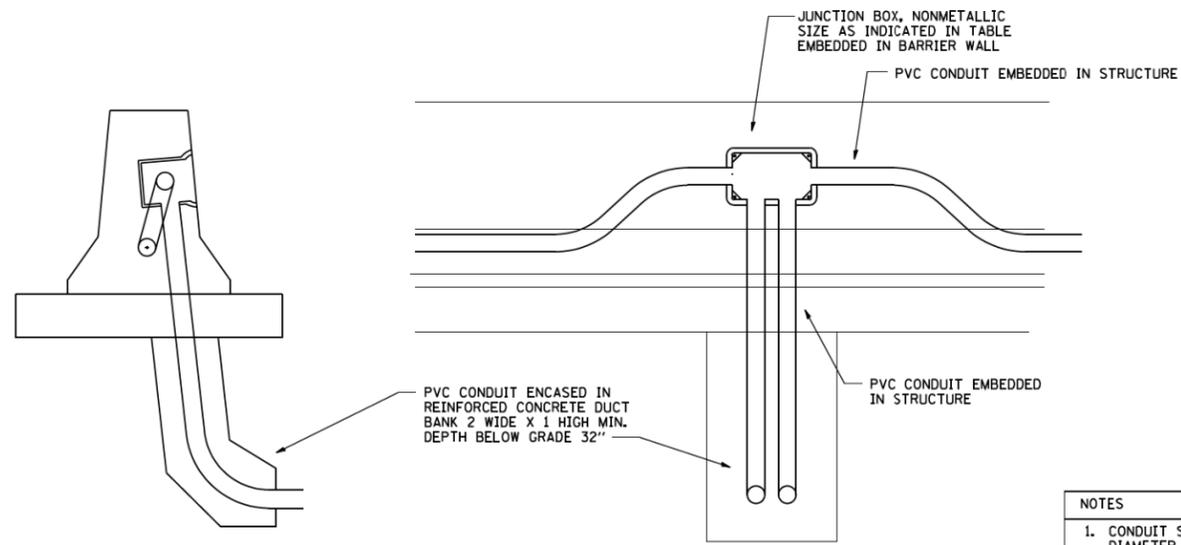
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING

ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING



JOINT SHALL BE CEMENTED WHEN CONNECTED, STAINLESS STEEL BAND SHALL BE FLUSH WITH THE END OF THE PARAPET TO ALLOW FOR CONNECTION TO EXPANSION COUPLING.

INSTALLATION OF CONDUIT
IN BRIDGE PARAPET EXPANSION JOINT
(N.T.S.)



- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW

JUNCTION BOX EMBEDDED IN BARRIER WALL

FILE NAME =
be703.dgn

USER NAME = gaglianobt
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 2/5/2009

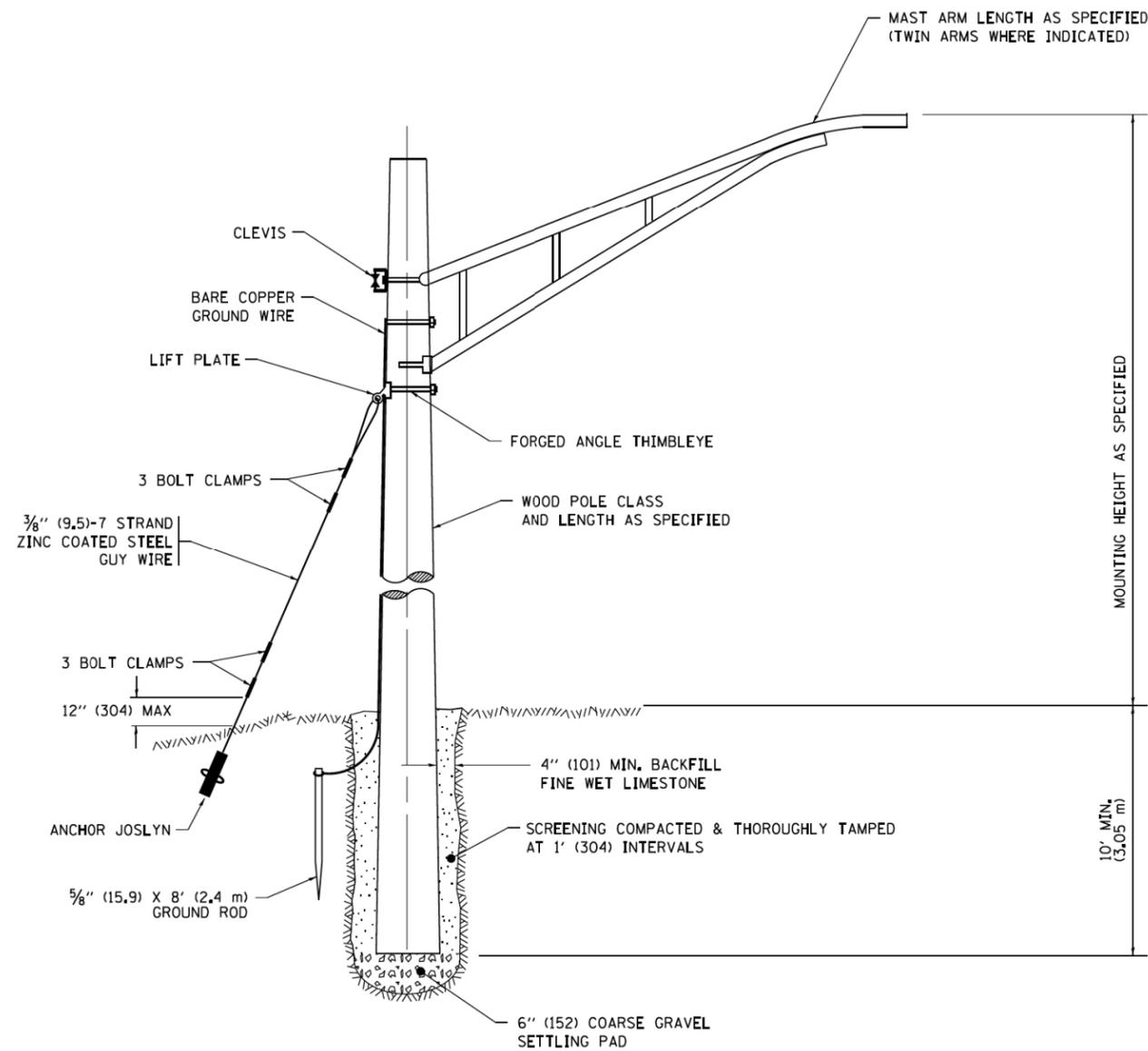
DESIGNED -
DRAWN -
CHECKED -
DATE - 01-20-2009

REVISED -
REVISED -
REVISED -
REVISED -

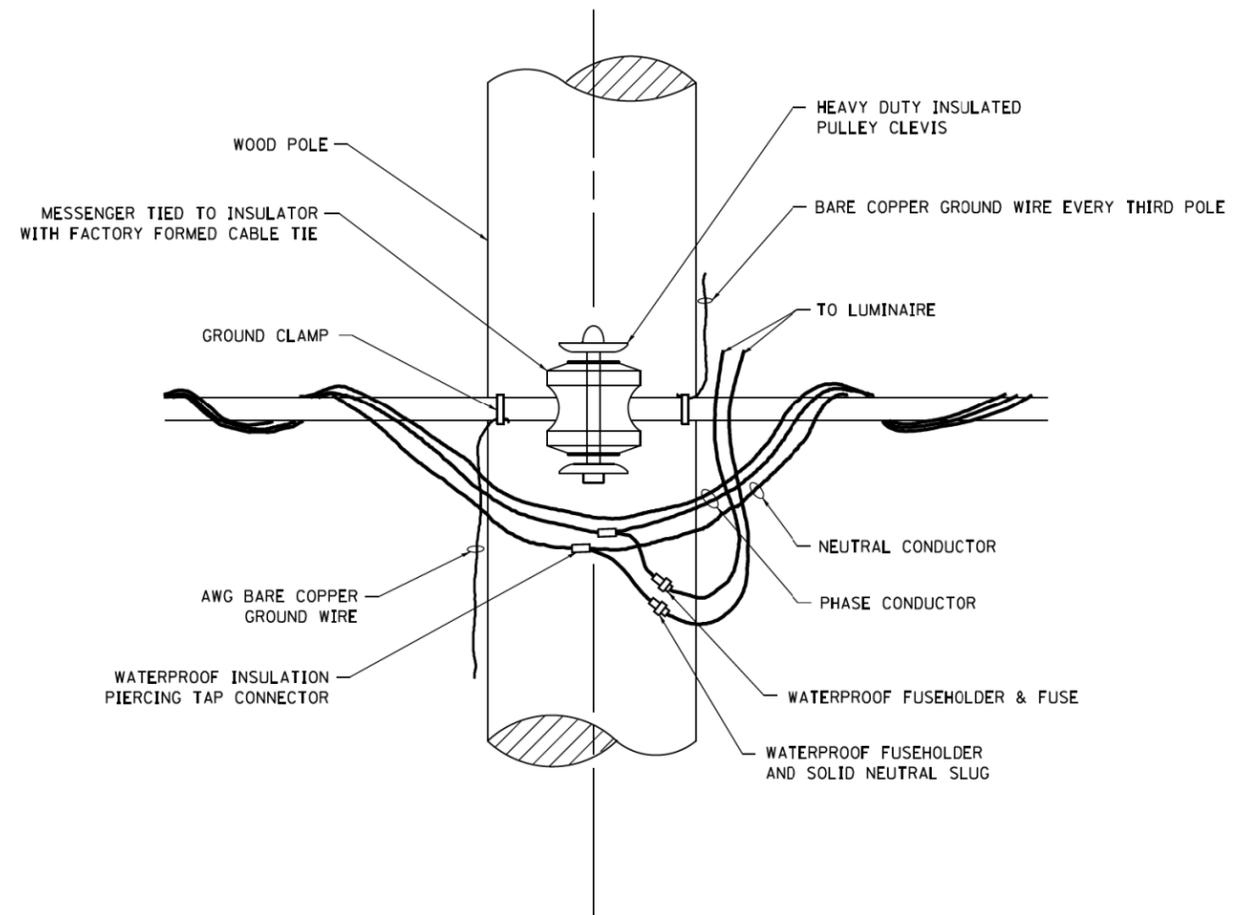
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS ELECTRICAL DETAILS, SHEET B
J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE
PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING**
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
• 2019-054-1 COOK 400 325
BE-703 CONTRACT NO.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



TEMPORARY LIGHT POLE DETAIL

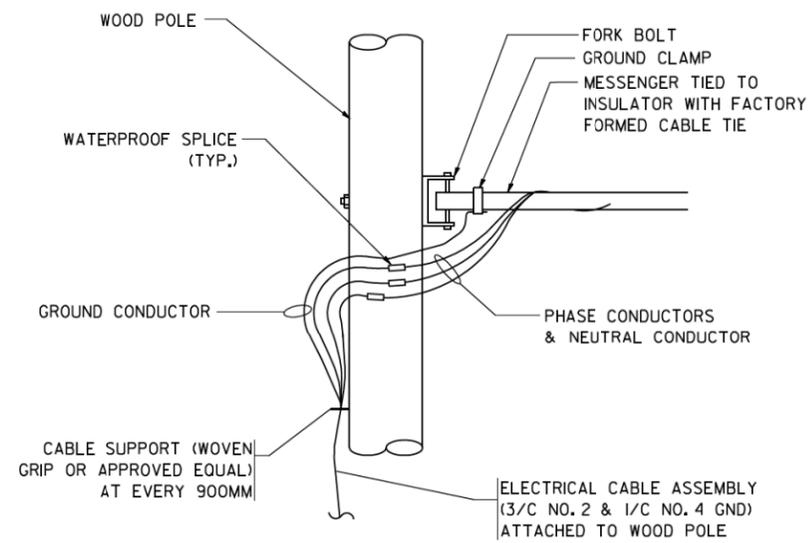


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

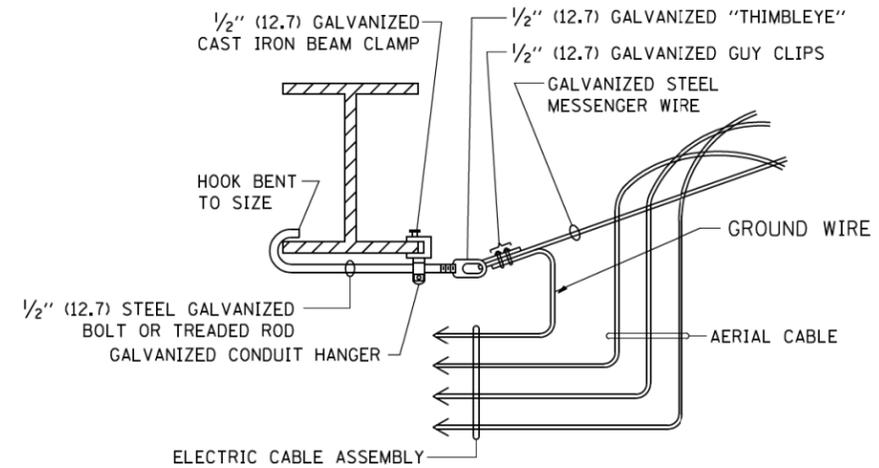
NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist	DRAWN\CADDData\CADsheets\be800.dgn	REVISED - R.T. 07-26-16	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.	2019-054-1	COOK	400	326
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -					BE-800		CONTRACT NO.		
	PLOT DATE = 9/1/2016	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



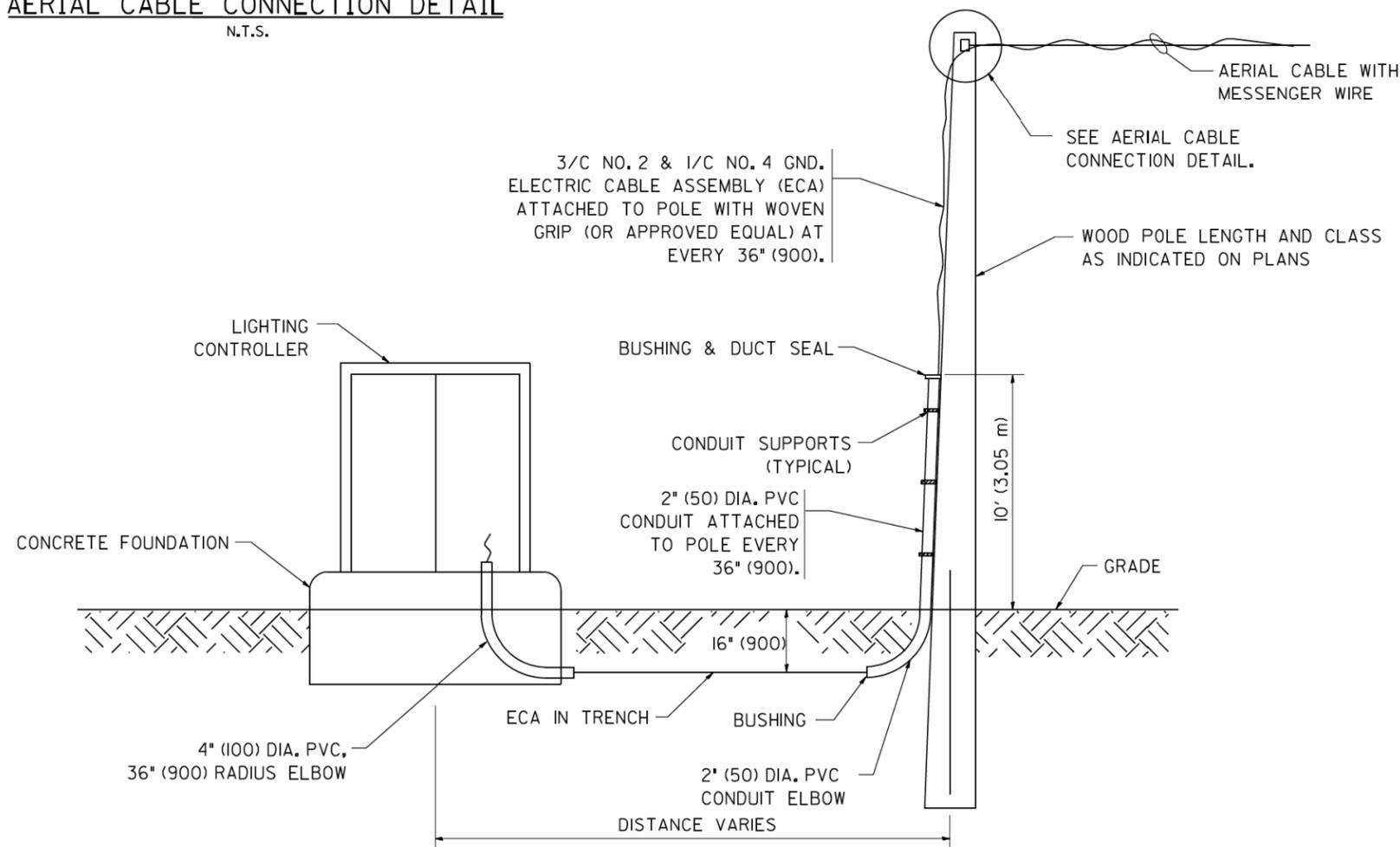
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

• 90/94/290

FILE NAME =
W:\diststd\22x34\be801.dgn

USER NAME = gaglianob
PLOT SCALE = 50.000' / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

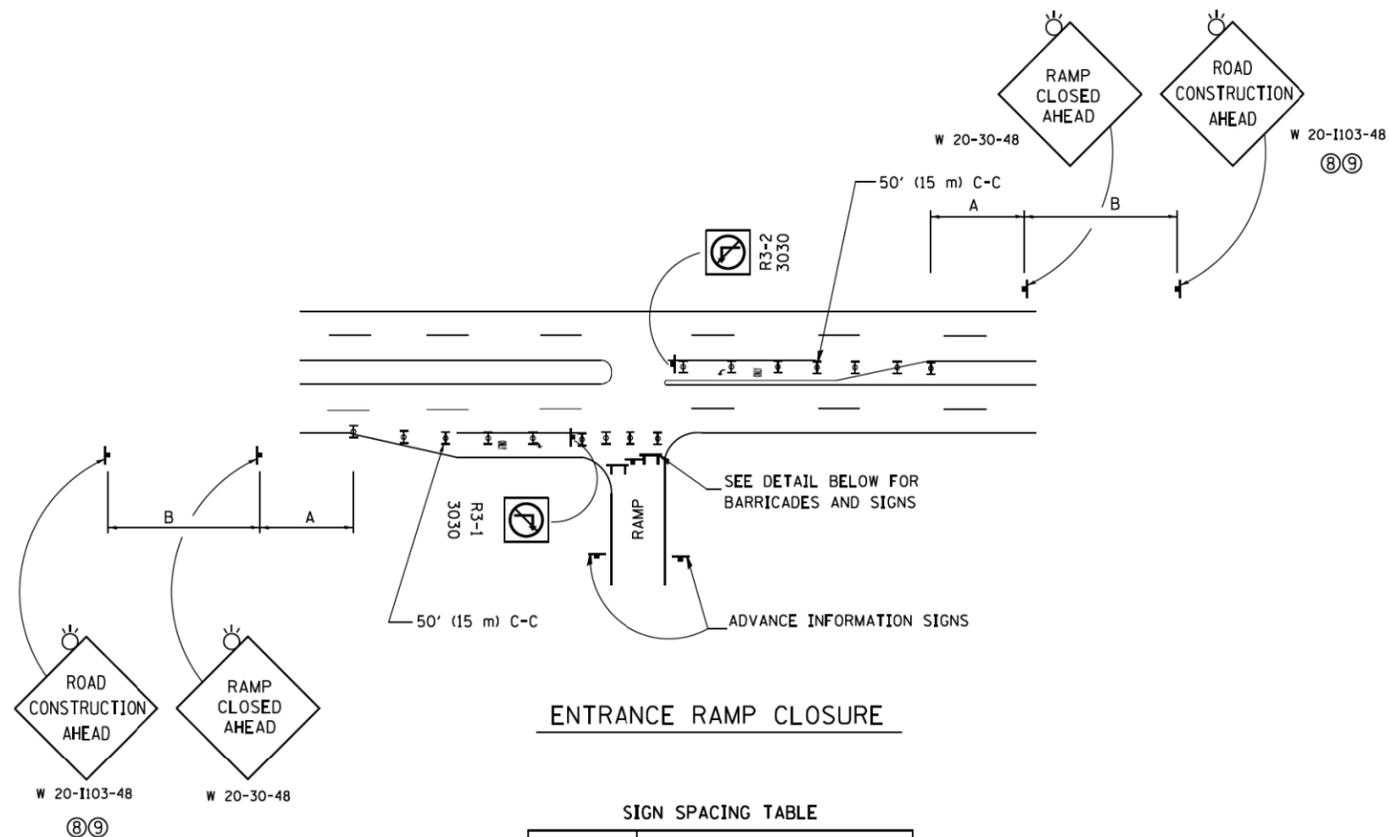
REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY AERIAL CABLE INSTALLATION

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	327
BE-801			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

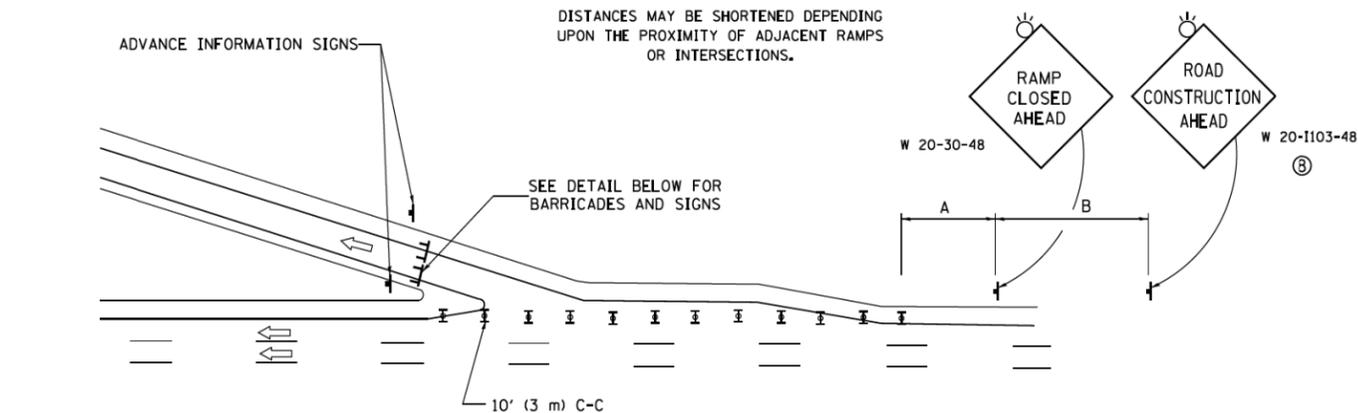


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

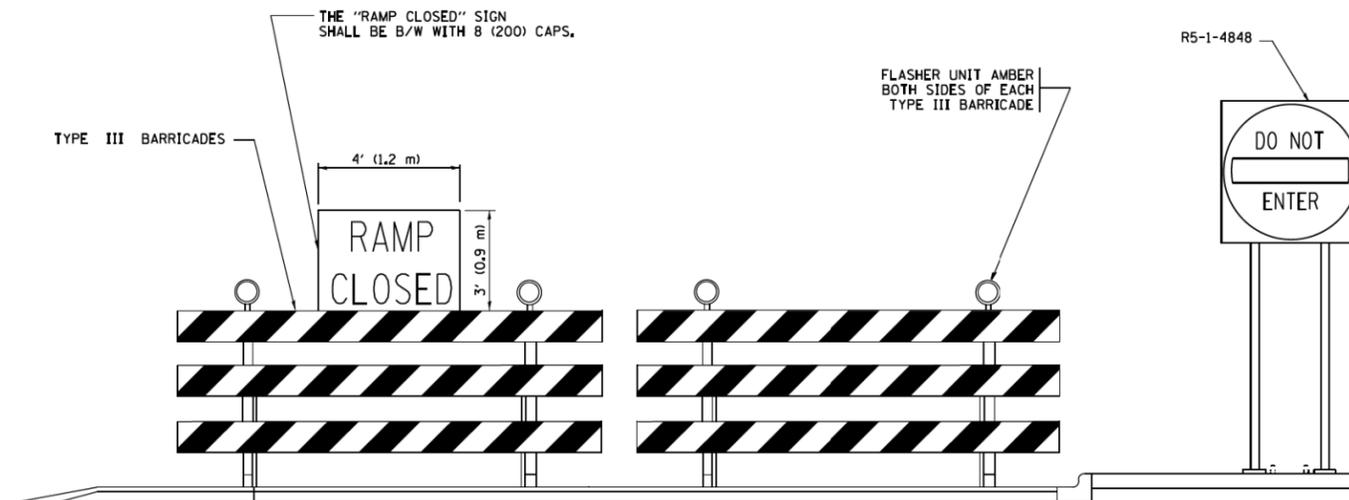
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

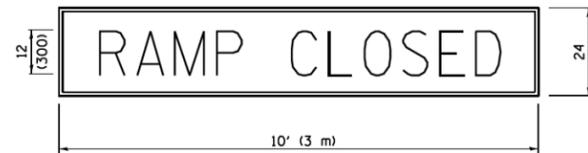
SYMBOLS

- ⊓ TYPE II BARRICADE OR DRUM
- ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

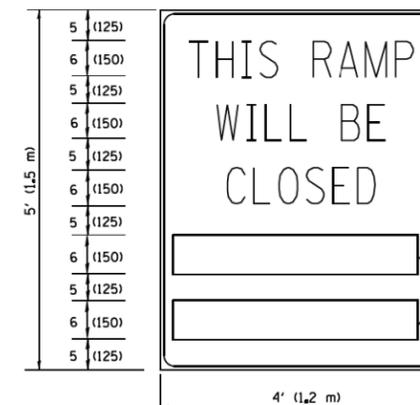
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. • 90/94/290

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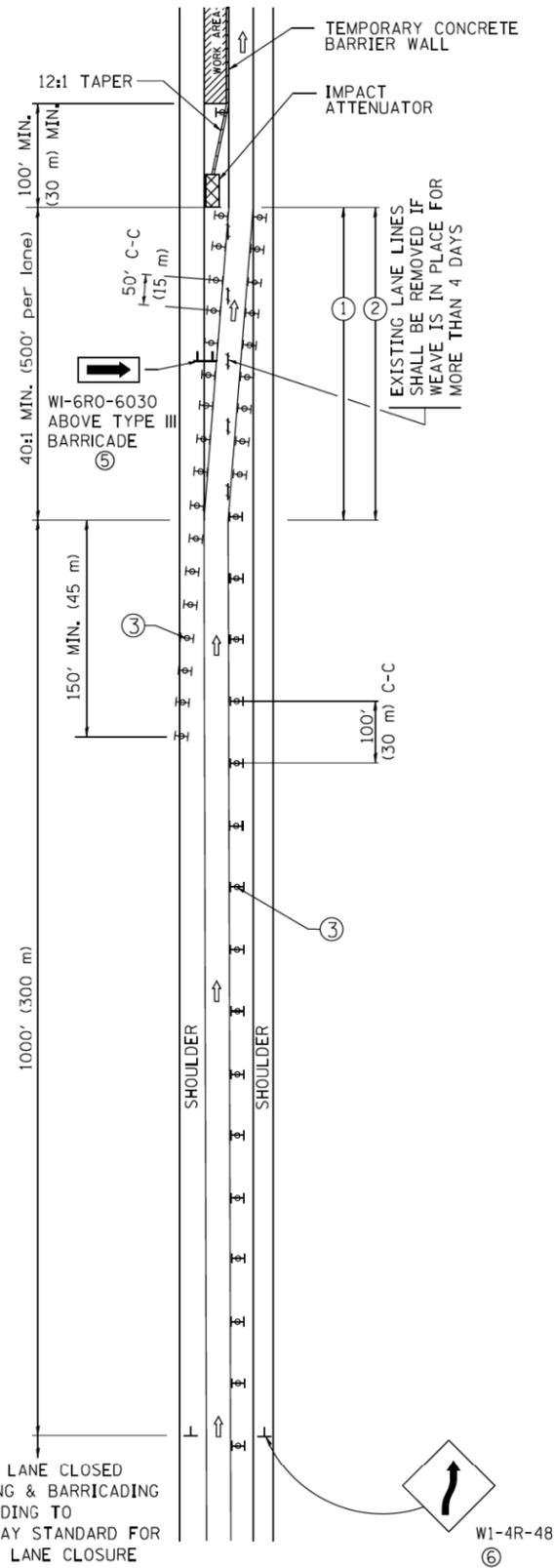
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

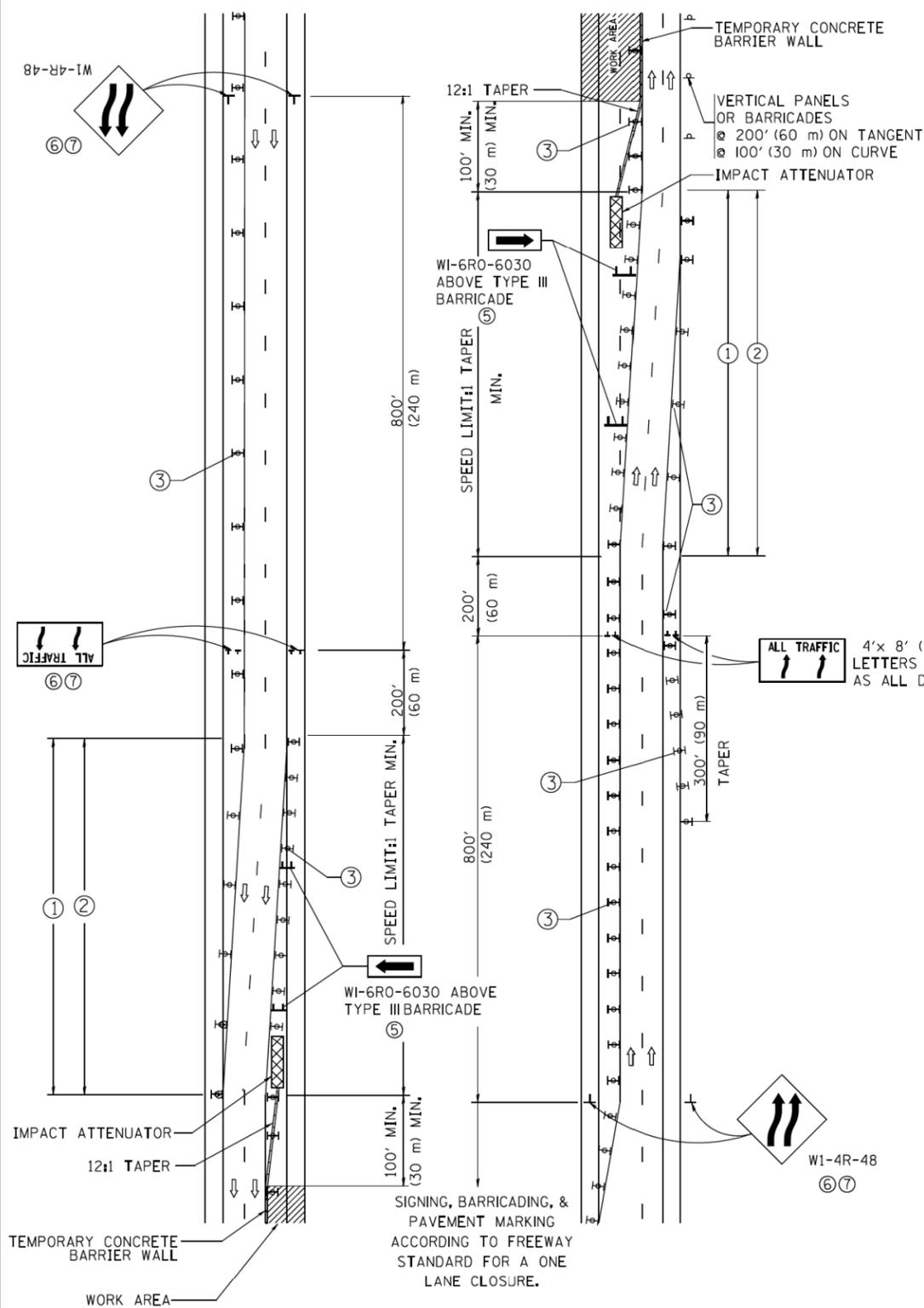
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	328
TC-08		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

90/94/290

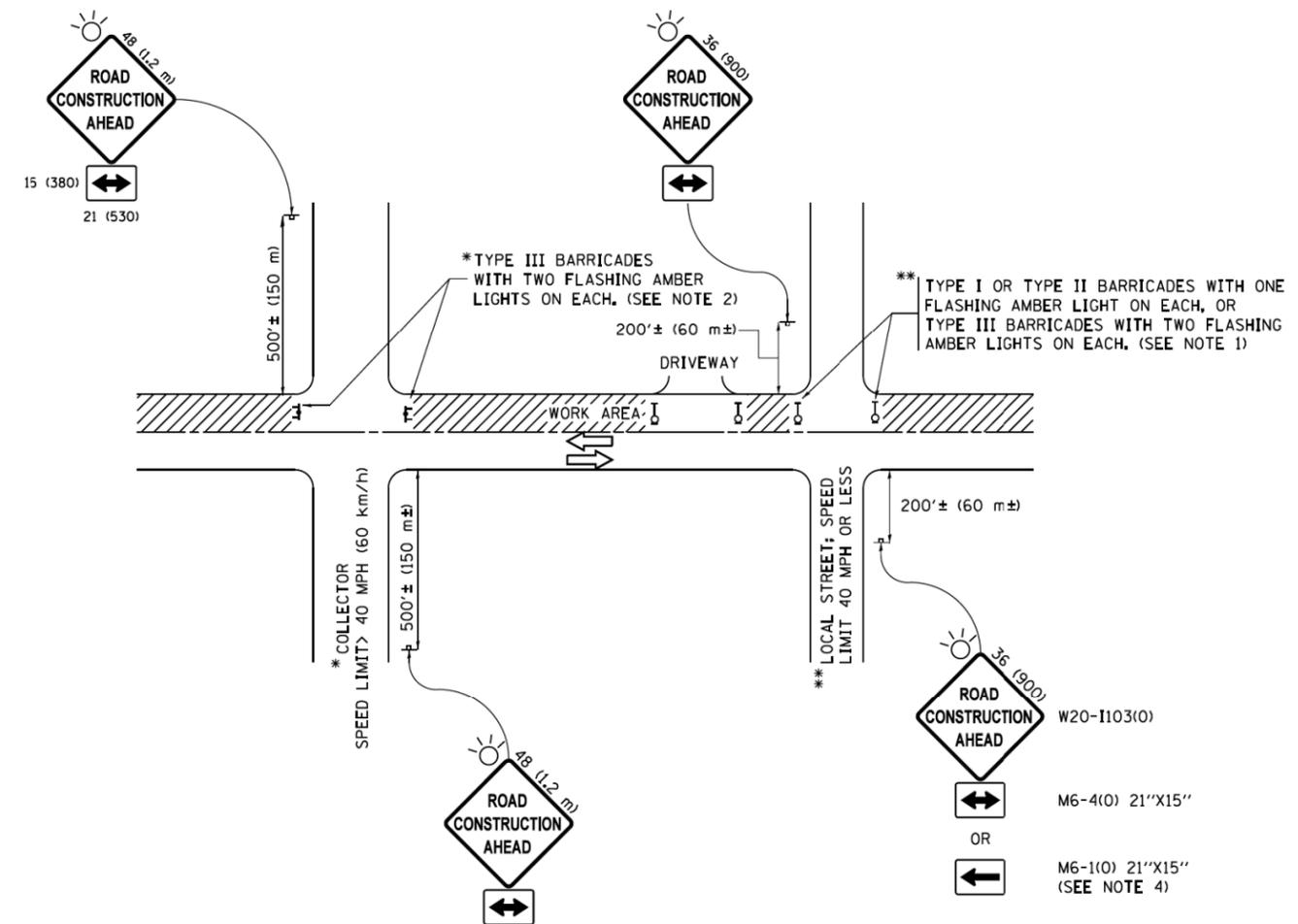
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	329
TC-09		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown. • 90/94/290

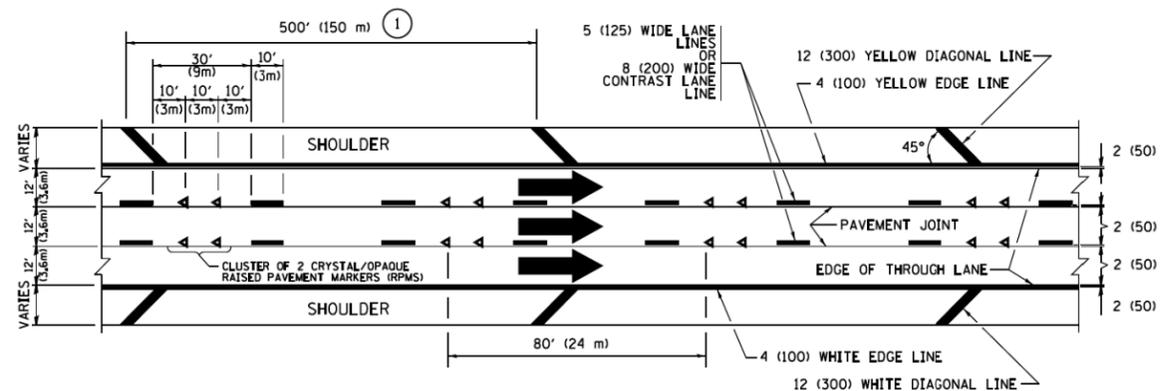
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Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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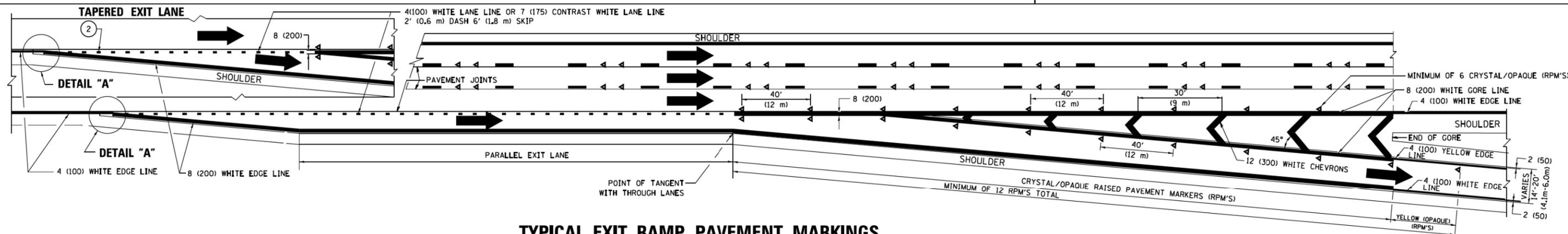
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TC-10			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



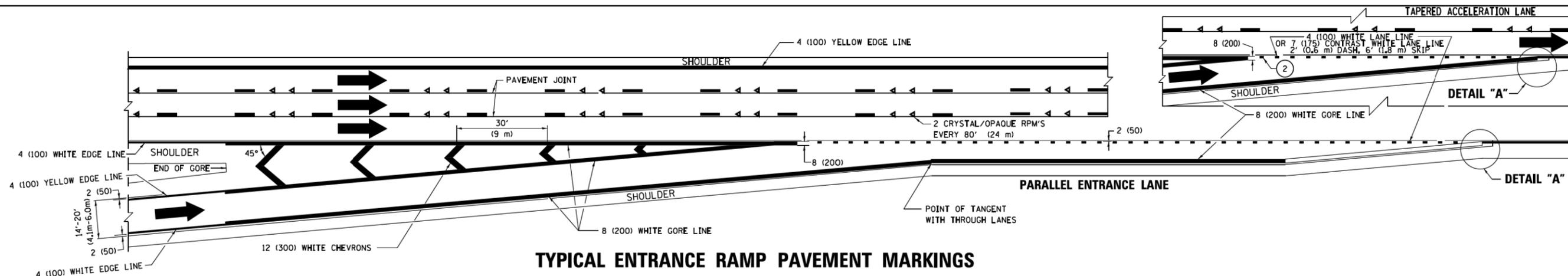
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

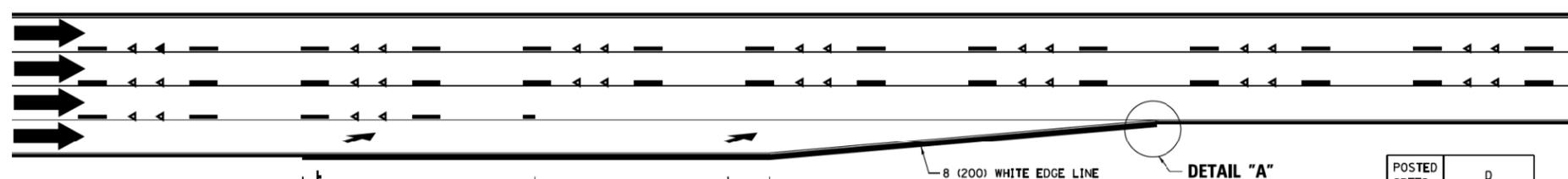
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAIN OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

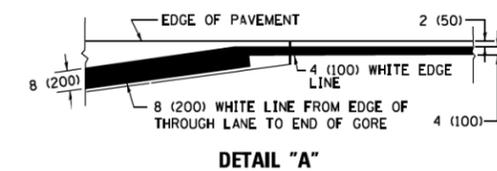


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



- NOTES:**
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
 - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

• 90/94/290

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 DATE - 01-90

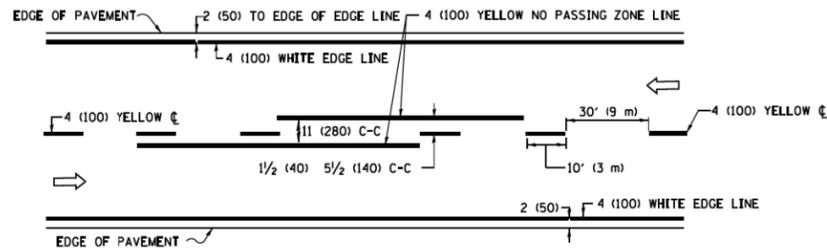
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

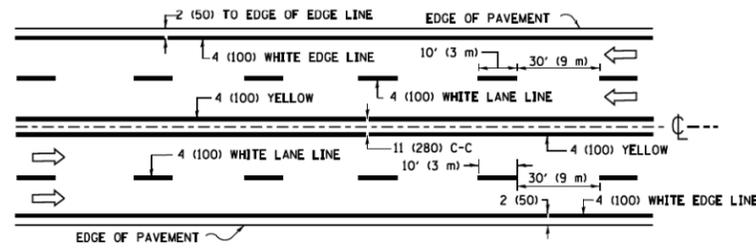
**MULTI-LANE FREEWAY
 PAVEMENT MARKING DETAILS**

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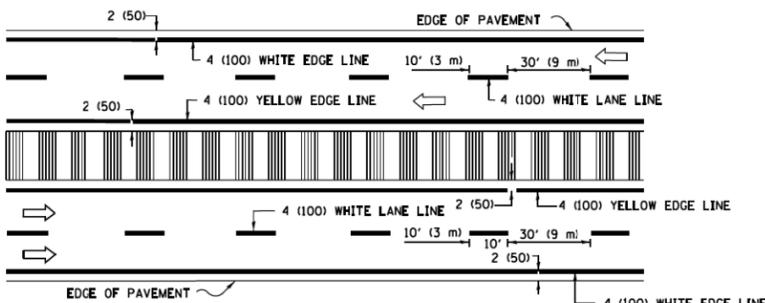
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•	2019-054-1	COOK	400	331
	TC-12			CONTRACT NO.
		ILLINOIS FED. AID PROJECT		



2-LANE ROADWAY

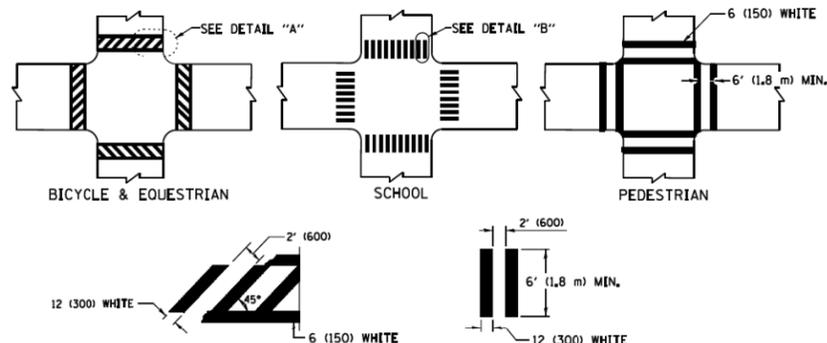


MULTI-LANE UNDIVIDED



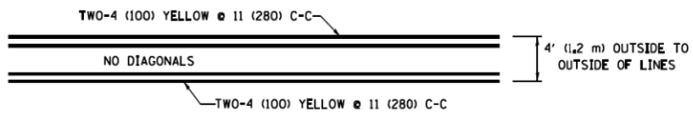
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

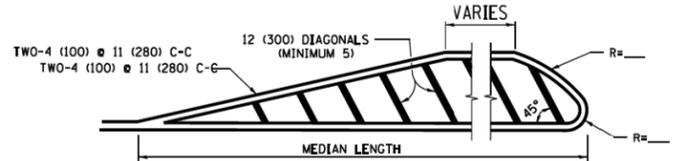


TYPICAL CROSSWALK MARKING

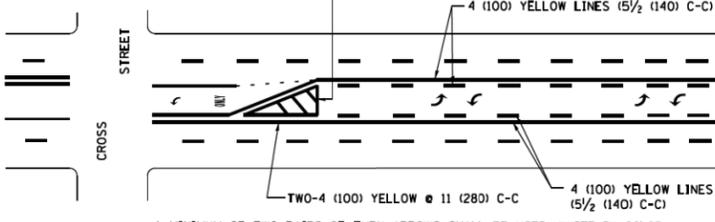
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



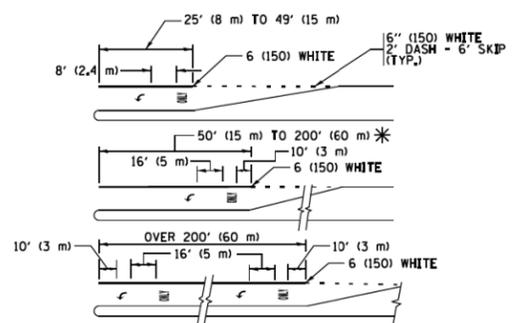
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

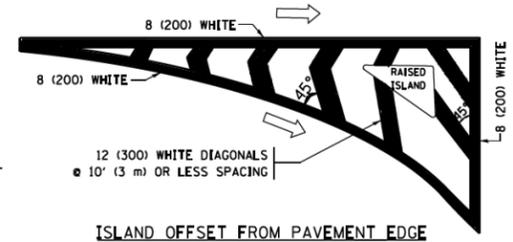


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

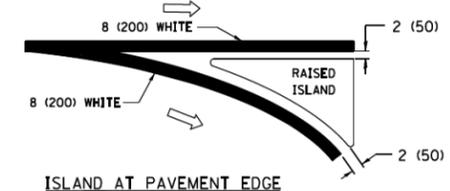


TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING

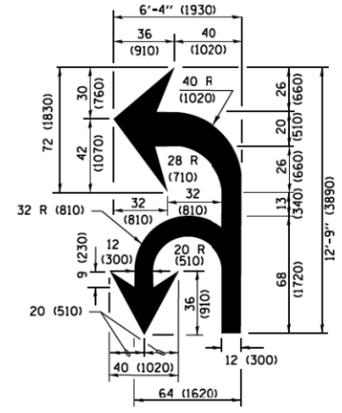
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²); ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



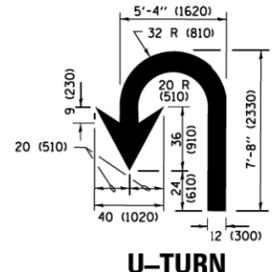
ISLAND OFFSET FROM PAVEMENT EDGE



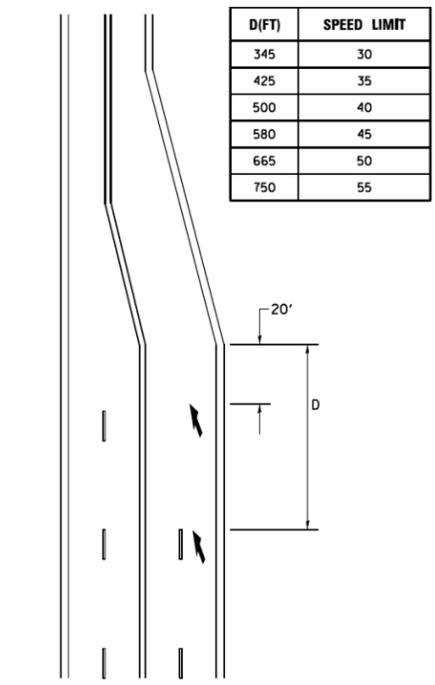
ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN



LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK; IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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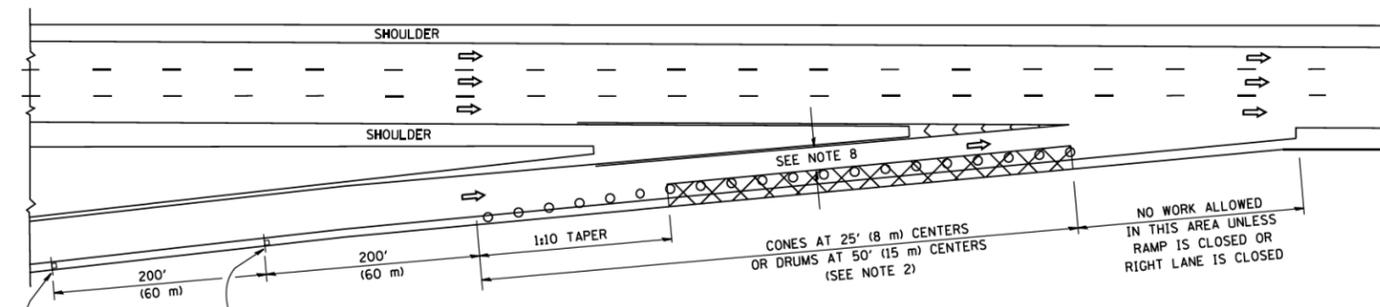
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

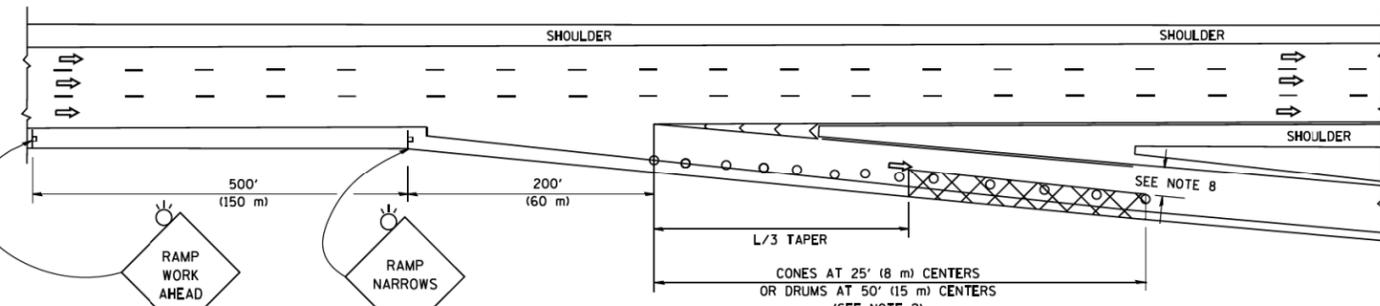
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	333
	TC-13			CONTRACT NO.
				ILLINOIS FED. AID PROJECT

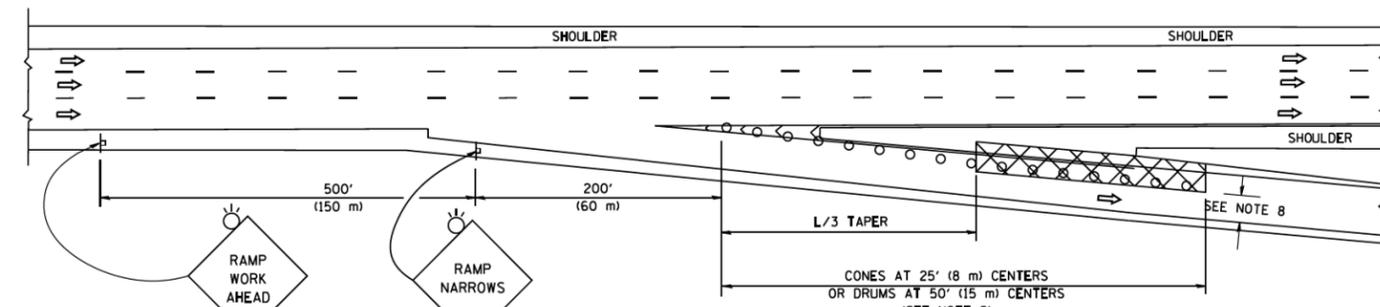
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

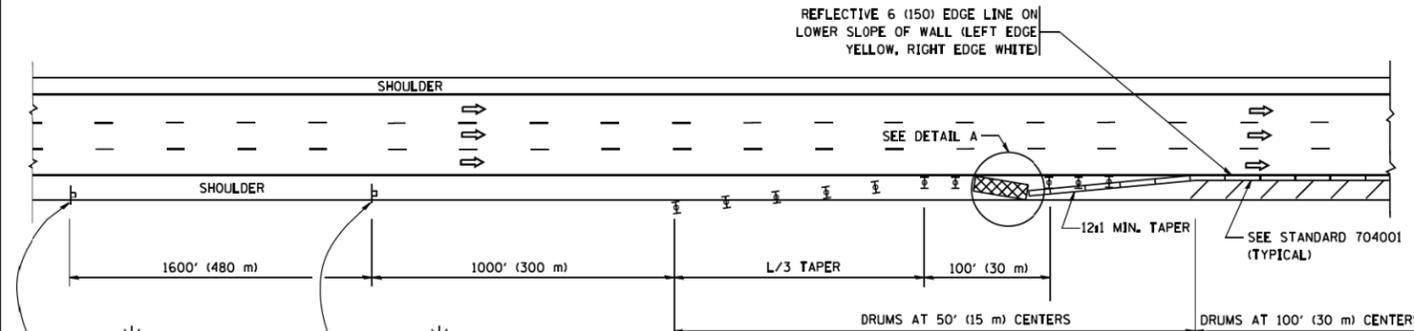
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

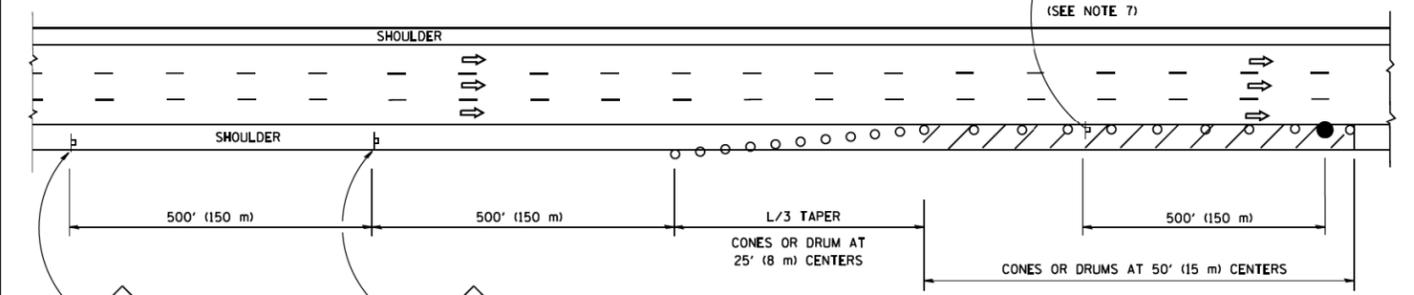
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

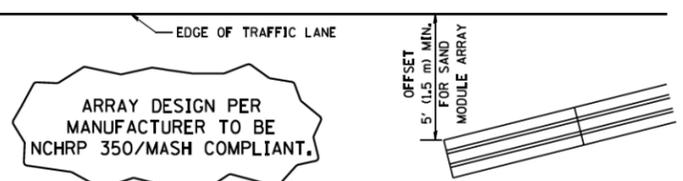


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCRANCHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

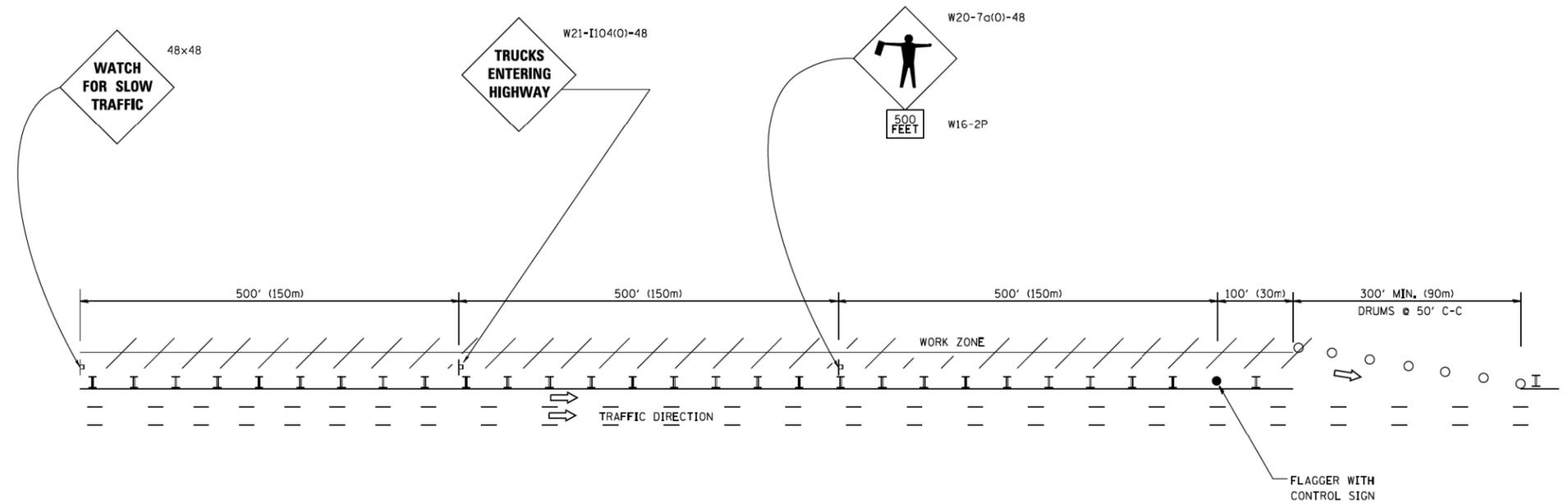
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

• 90/94/290

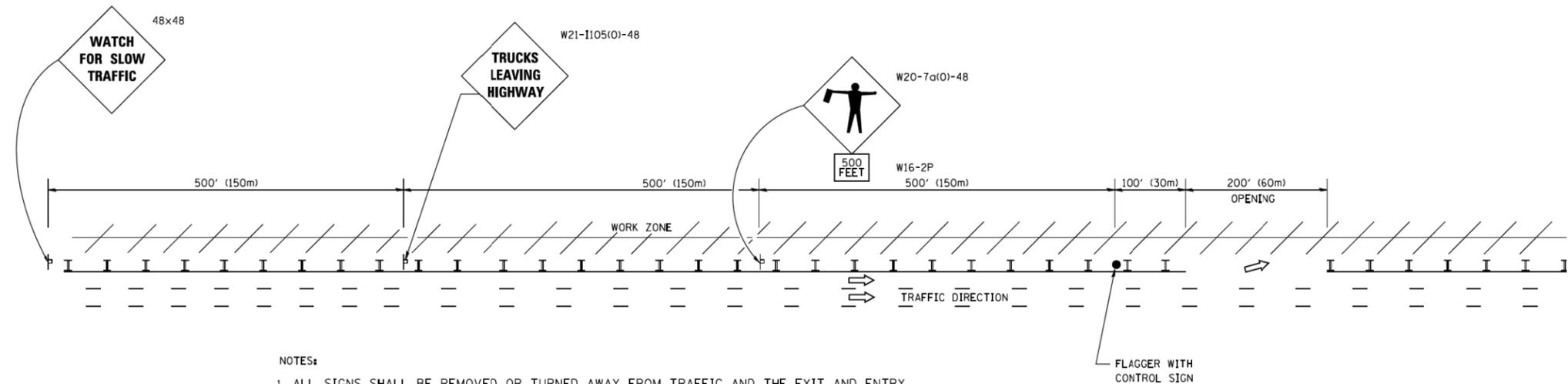
FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
px:\IL084EBIDINTEG\111nos.gov\PI\DOT\Do	uments\DOT Offices\District 1\Projects\Dist	ORAWN\CADData\CD\111nos\111nos\111	REVISED - S.P.B. 12-09			•	2019-054-1	COOK	400	334
Default	PLOT SCALE = 50.0000' / 1" =	CHECKED -	REVISED - M.D. 06-13			TC-17				
	PLOT DATE = 11/27/2017	DATE - 11-96	REVISED - M.D. 01-18			ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN • 90/94/290

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca\pw_work\pw\dot\footemj\d0108315\tcl8.dgn		DRAWN -	REVISED - S.P.B. 01-07			•	2019-054-1	COOK	400	335	
PLOT SCALE = 50.000' / in.		CHECKED -	REVISED - S.P.B. 12-09			TC-18		CONTRACT NO.			
PLOT DATE = 7/8/2013		DATE -	REVISED - M.D. 06-13			SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

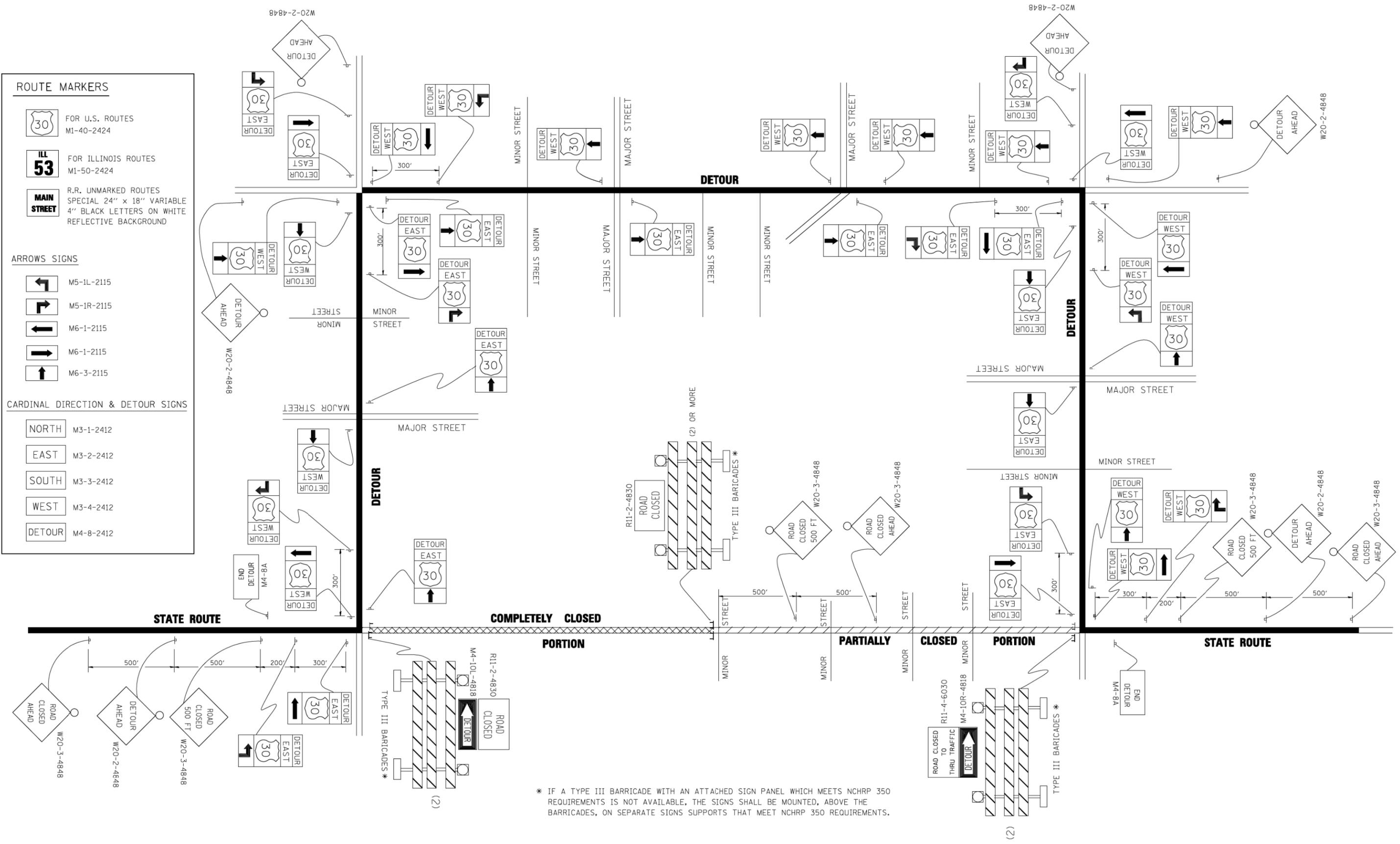
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



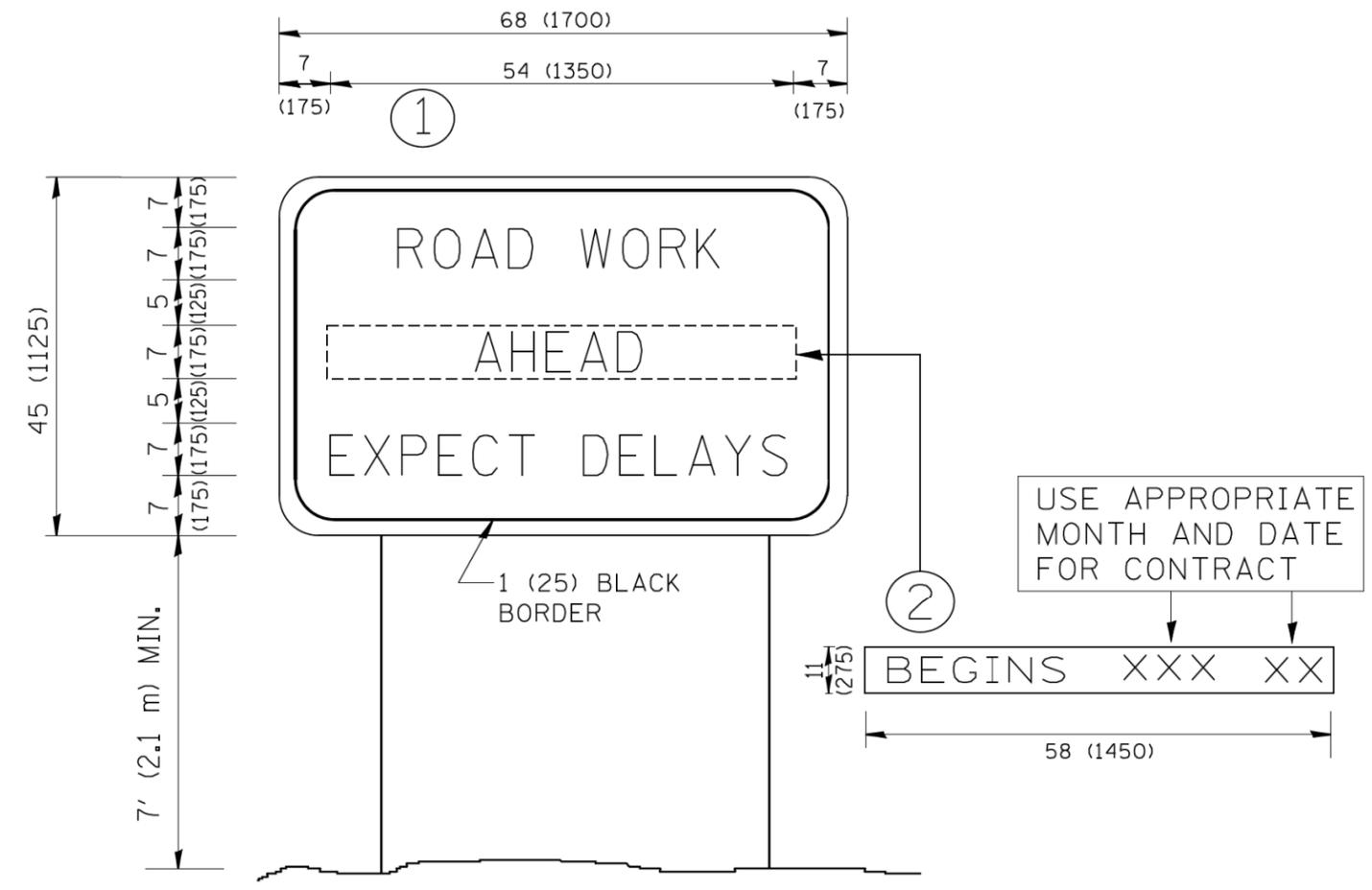
* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME = c:\pwork\p\1001\DRIVAK\SSGN\d0108315\21.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	336
TC-21		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



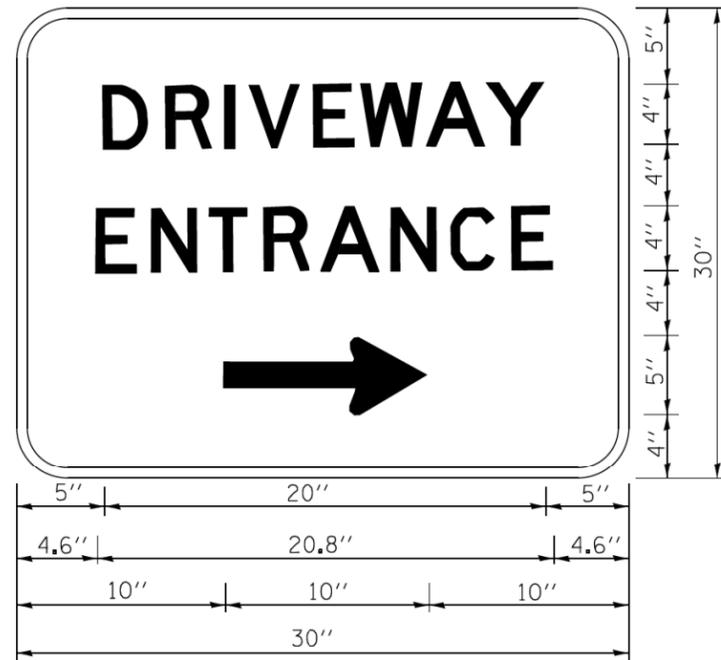
NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

• 90/94/290

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2019-054-1	COOK	400	337
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99						TC-22		CONTRACT NO.	
		DATE -	REVISED - C. JUCIUS 01-31-07						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

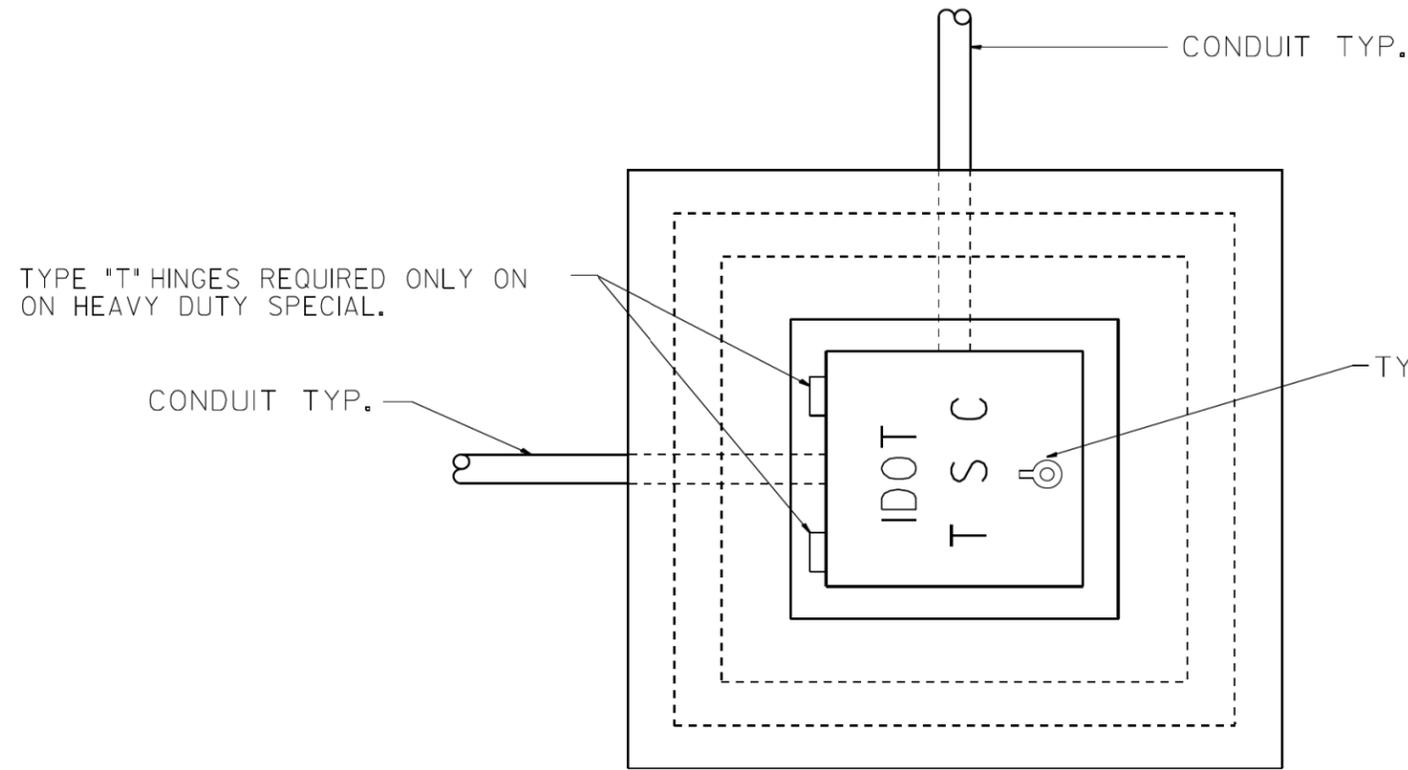
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ct:\pw_work\pws\dot\gegl1enobt\d0108315\to	26.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2019-054-1	COOK	400	338
TC-26			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

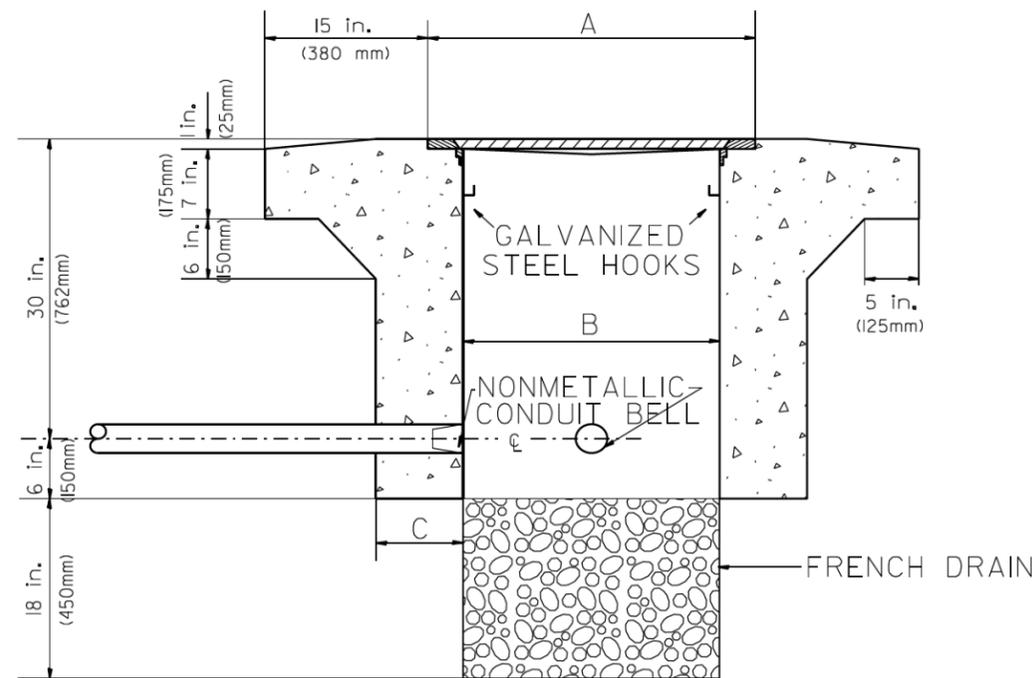


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)



ELEVATION

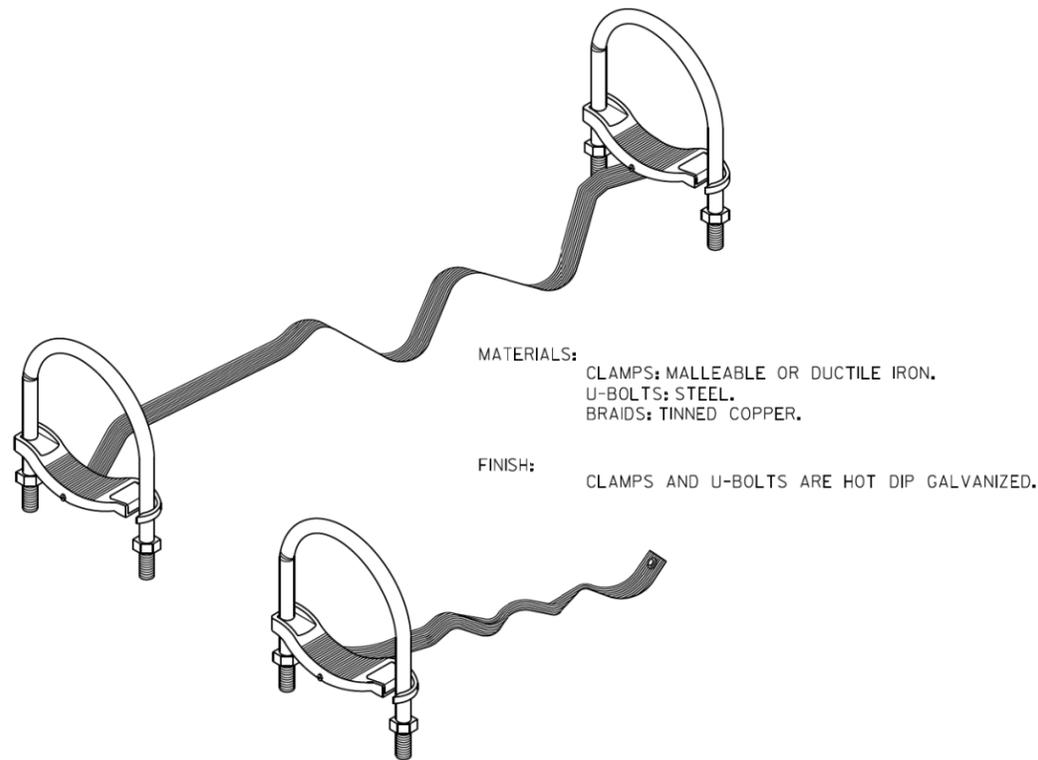
HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

(FRAME AND COVER 405 LBS. (184 Kg. (405))

PC CONCRETE - HEAVY DUTY HAND HOLE

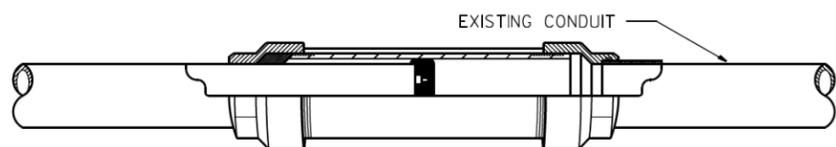
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#FILEL#		DRAWN - G.N.	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	2019-054-1	400	339
#MODELNAME#		CHECKED - R.L.	REVISED -								CONTRACT NO.		
		DATE - 09/11/96	REVISED -								FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT



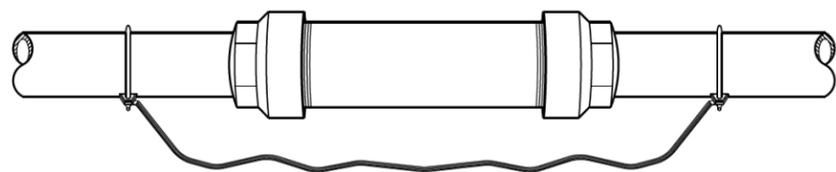
MATERIALS:
 CLAMPS: MALLEABLE OR DUCTILE IRON.
 U-BOLTS: STEEL.
 BRAIDS: TINNED COPPER.

FINISH:
 CLAMPS AND U-BOLTS ARE HOT DIP GALVANIZED.

GROUNDING & BONDING JUMPERS FOR RIGID STEEL, IMC & EMT



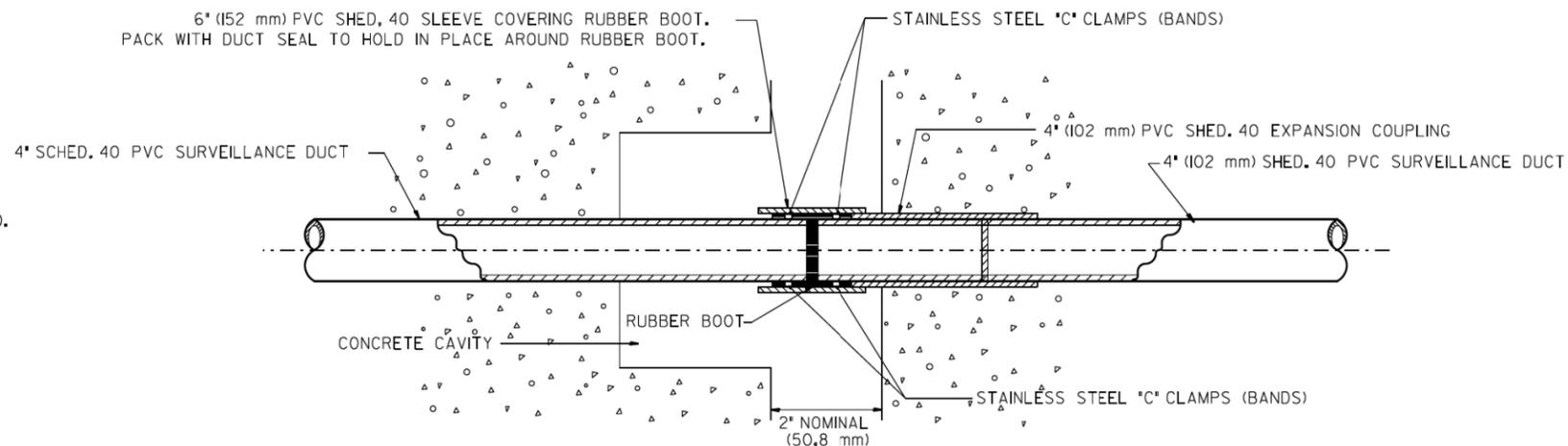
CROSS SECTION



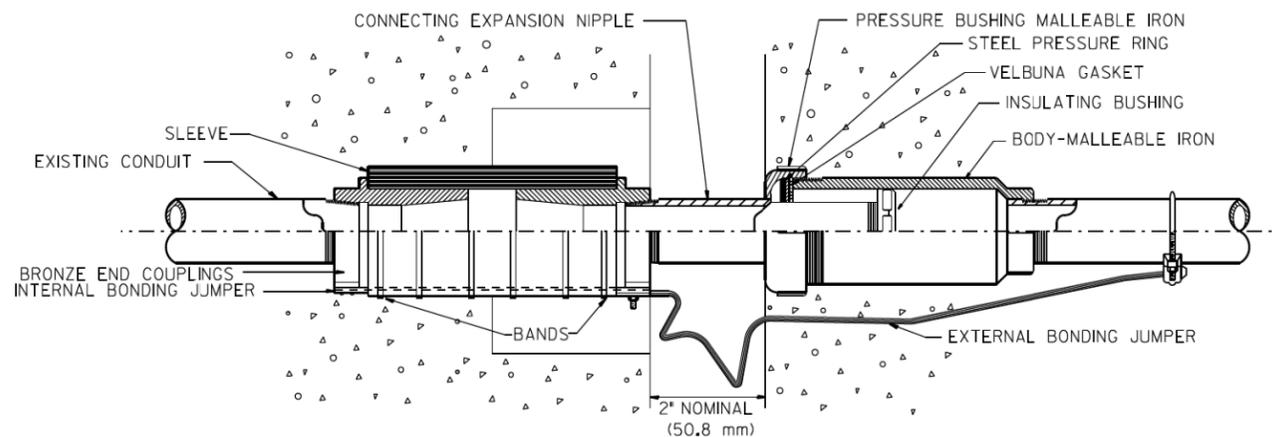
BONDING EXPANSION FITTINGS

MATERIALS:
 HEAD: MALLEABLE OR DUCTILE IRON.
 SLEEVE: STEEL.
 INSULATING BUSHING: PHENOLIC.

FINISH:
 HOT DIP GALVANIZED.



EXPANSION/DEFLECTION FITTING



COMBINATION DEFLECTION/EXPANSION FITTINGS FOR RIGID METAL CONDUIT & IMC

FITTING CAN BE USED EXPOSED OR EMBEDDED IN CONCRETE.

MATERIALS:
 SLEEVE: NEOPRENE.
 END COUPLINGS: BRONZE.
 BONDING JUMPER: TINNED COPPER BRAIDS.
 BANDS: STAINLESS STEEL.

FINISH:
 ALL MALLEABLE, DUCTILE IRON OR STEEL PARTS
 ARE HOT DIP GALVANIZED.

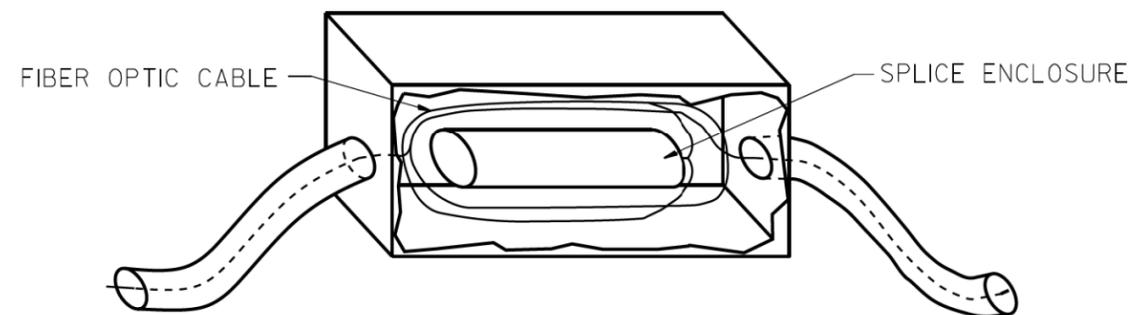
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

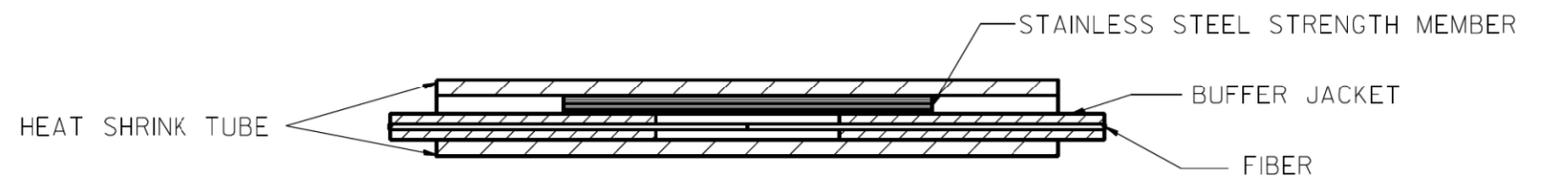
EXPANSION FITTING DETAIL SHEET

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2019-054-I	COOK	400	340
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



JUNCTION BOX DETAIL



FIBER SPLICE DETAIL

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#MODELNAME#	PLOT DATE = #DATE#	DATE - 04/26/93	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC
WIRING DETAIL

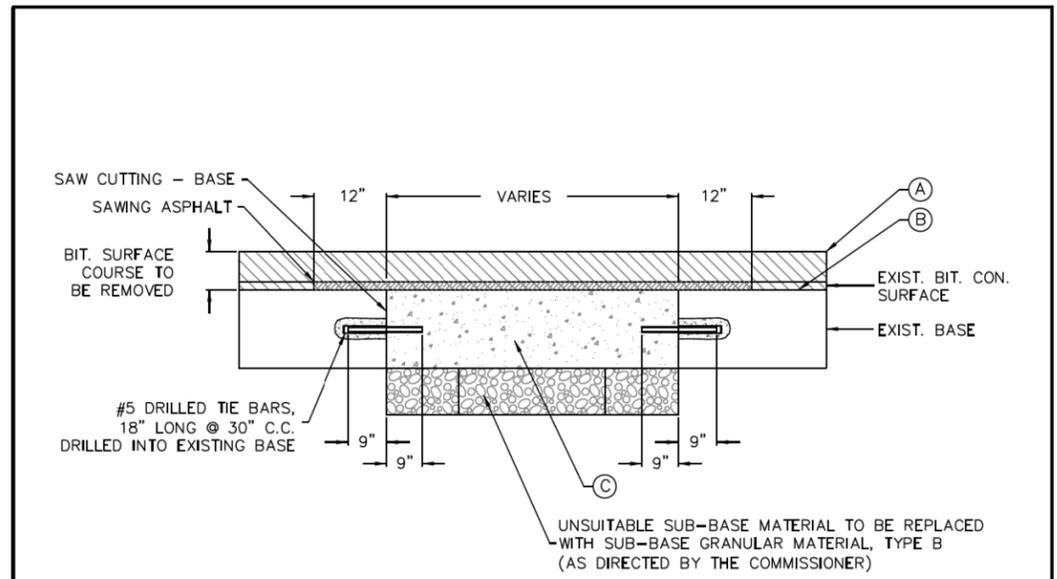
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2019-054-I	COOK	400	341
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• 90/94/290

TRAFFIC SYSTEMS CENTER (TY-ITSC-663#13)

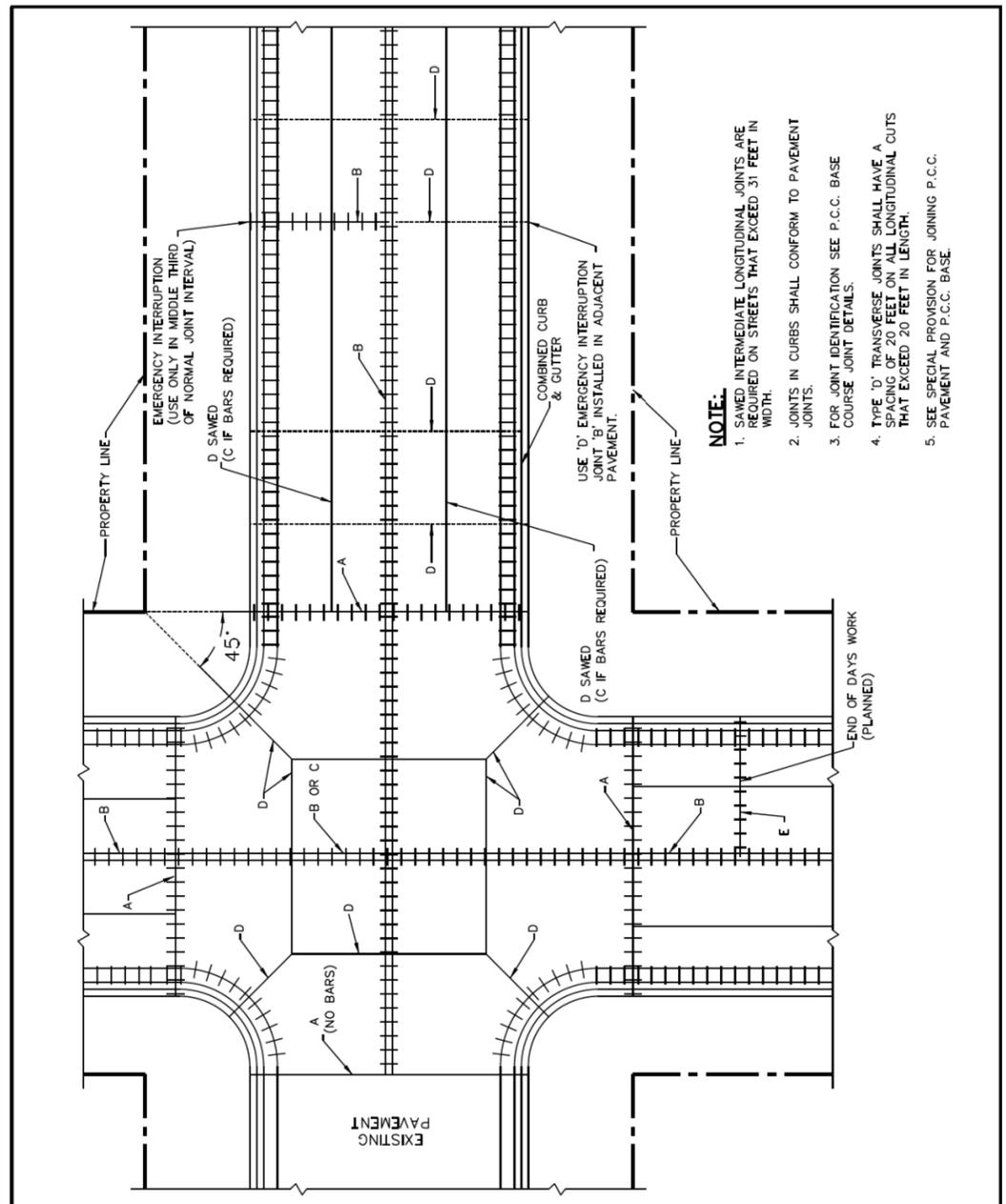
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- LEGEND:**
- (A) HOT MIX ASPHALT SURFACE COURSE AND BINDER COURSE
 - (B) BITUMINOUS MATERIAL & AGGREGATE (PRIME COAT)
 - (C) PCC BASE COURSE

- NOTES:**
1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 8" OR MORE (SEE SECTION 4.2b FOR REQUIRED THICKNESS). FOR CONCRETE STREETS THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING 1'-0" OVERLAP) AND FINISHED AS REQUIRED IN THE IDOT SSRBC.
 2. ALL EXISTING PAVEMENTS SHALL BE SAW CUT 1'-0" ON BOTH SIDES OF THE TRENCH OR PAVEMENT OPENING. UNDER NO CIRCUMSTANCES SHOULD EXISTING PAVEMENT, WHICH HAS BEEN UNDERMINED OR OTHERWISE DISTURBED, BE LEFT IN PLACE AND NOT RESTORED.
 3. ALL STREET PAVEMENT WILL REQUIRE PLACEMENT OF #5 TIE BARS, 18 INCHES LONG DRILLED AND GROUTED (NON SHRINK) AT 30" CENTERS ON ALL SIDES. A MINIMUM OF TWO TIE BARS WILL BE REQUIRED ON EACH SIDE OF SAW CUT BOUNDARIES.
 4. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED (INCIDENTAL).

 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	PAVEMENT PATCHING AND PORTLAND CEMENT CONCRETE REPLACEMENT		
	1/27/2016	REVISION 2	DATE	SHEET	DRAWN BY
			01/11/07	A-2-2C	CDOT



- NOTE:**
1. SAWED INTERMEDIATE LONGITUDINAL JOINTS ARE REQUIRED ON STREETS THAT EXCEED 31 FEET IN WIDTH.
 2. JOINTS IN CURBS SHALL CONFORM TO PAVEMENT JOINTS.
 3. FOR JOINT IDENTIFICATION SEE P.C.C. BASE COURSE JOINT DETAILS.
 4. TYPE 'D' TRANSVERSE JOINTS SHALL HAVE A SPACING OF 20 FEET ON ALL LONGITUDINAL CUTS THAT EXCEED 20 FEET IN LENGTH.
 5. SEE SPECIAL PROVISION FOR JOINING P.C.C. PAVEMENT AND P.C.C. BASE.

 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	TYPICAL JOINT LAYOUT FOR P.C. CONCRETE PAVEMENTS		
			DATE	SHEET	DRAWN BY
			12/26/06	A-2-3A	CDOT



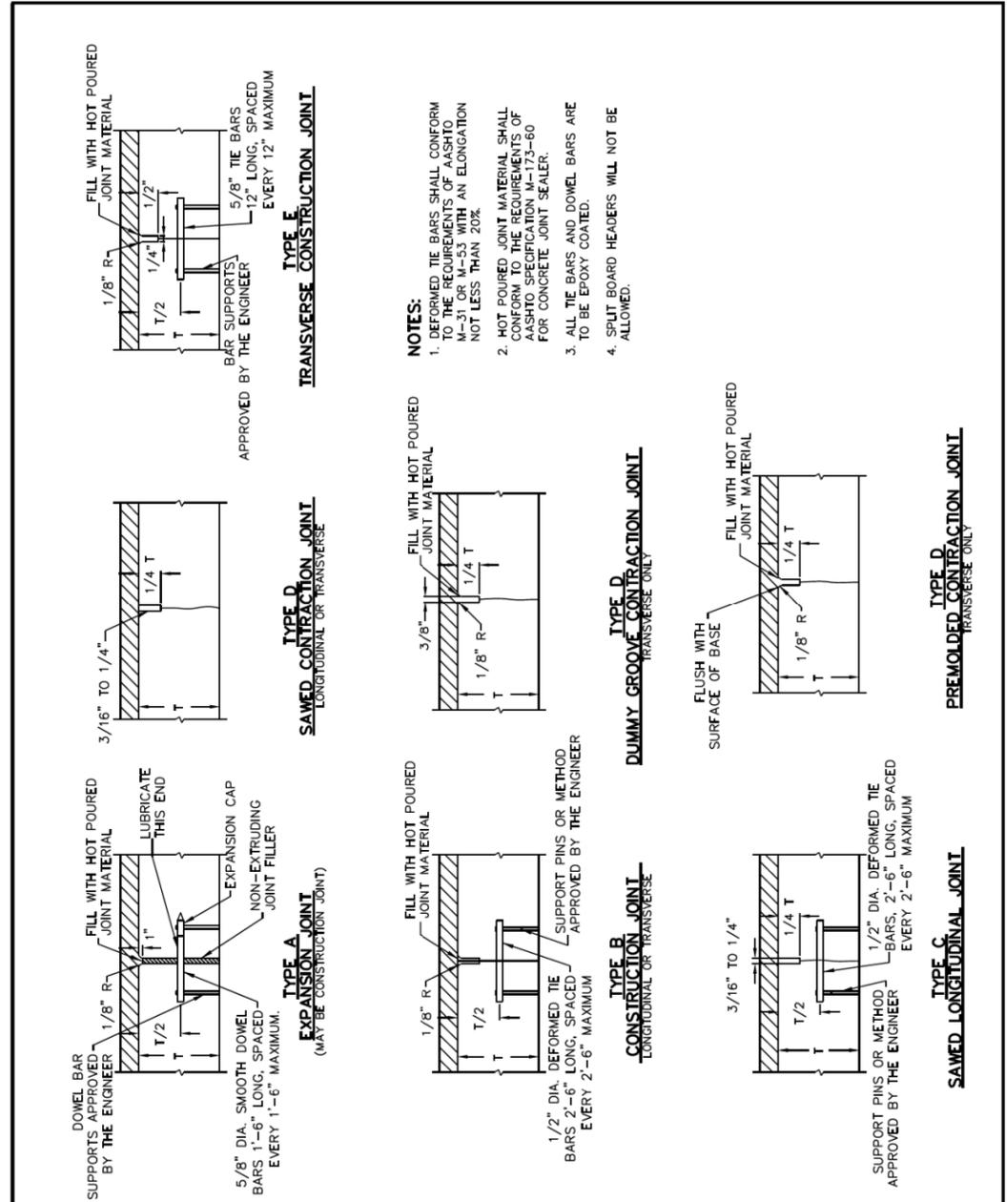
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PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 1 OF 4 SHEETS	STA.	TO STA.

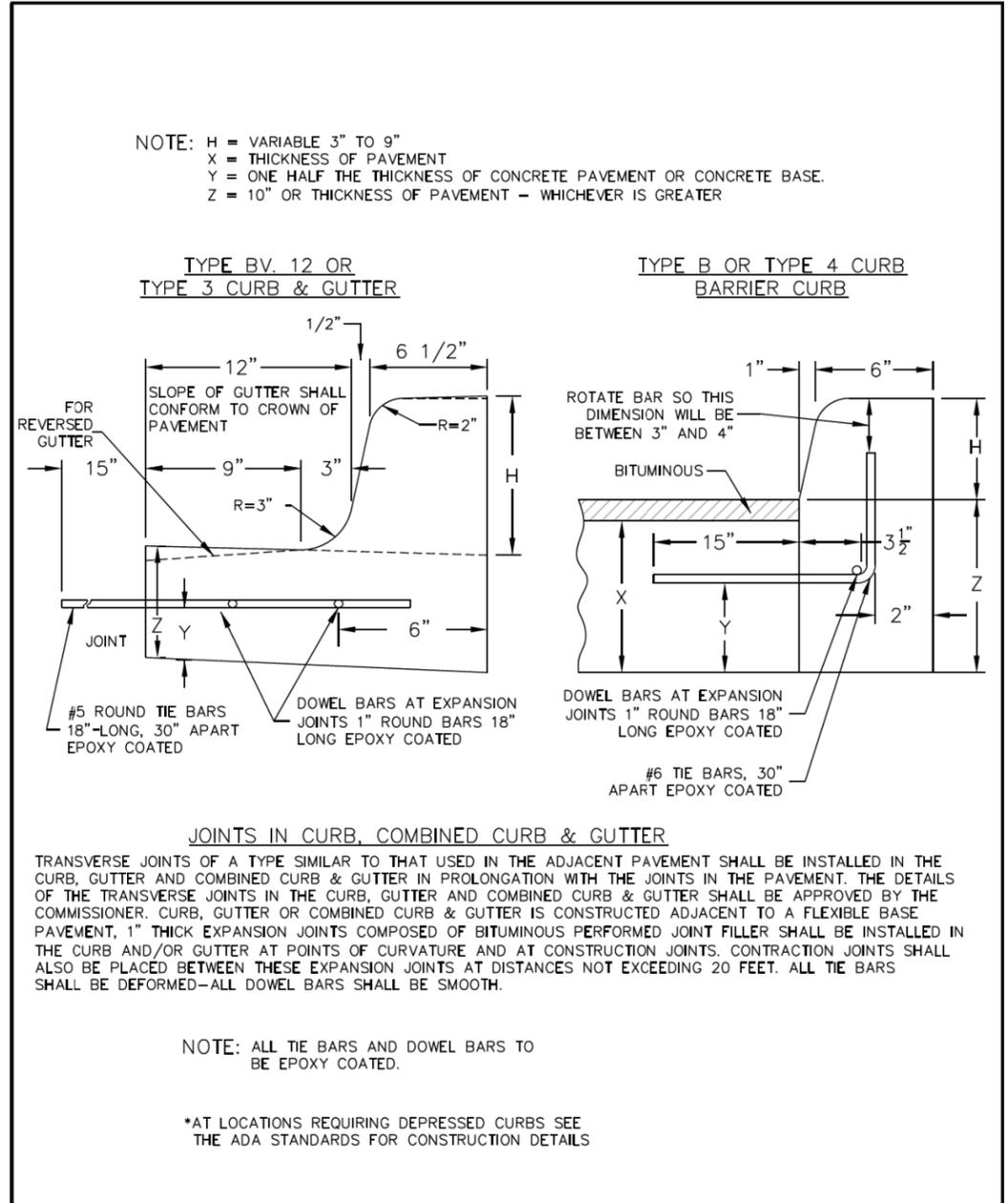
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	342
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

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NOTES:
 1. DEFORMED TIE BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 WITH AN ELONGATION NOT LESS THAN 20%.
 2. HOT POURED JOINT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-173-80 FOR CONCRETE JOINT SEALER.
 3. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED.
 4. SPLIT BOARD HEADERS WILL NOT BE ALLOWED.

<p>CHICAGO DEPARTMENT OF TRANSPORTATION</p>	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	P.C.C. BASE COURSE JOINT DETAILS		
			DATE	SHEET	DRAWN BY
			12/27/06	A-2-3C	CDOT



NOTE: H = VARIABLE 3" TO 9"
 X = THICKNESS OF PAVEMENT
 Y = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT OR CONCRETE BASE.
 Z = 10" OR THICKNESS OF PAVEMENT - WHICHEVER IS GREATER

<p>CHICAGO DEPARTMENT OF TRANSPORTATION</p>	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	CONCRETE CURB & GUTTER DETAIL		
			DATE	SHEET	DRAWN BY
			12/12/06	A-2-6	CDOT

NOTE: ALL TIE BARS AND DOWEL BARS TO BE EPOXY COATED.

*AT LOCATIONS REQUIRING DEPRESSED CURBS SEE THE ADA STANDARDS FOR CONSTRUCTION DETAILS



D62J31-Sht-CDOT-DETAIL-02.dgn	DESIGNED -	CDOT	REVISED -	
USER NAME = ChiuA	DRAWN -	CDOT	REVISED -	
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PLOT DATE = 8/14/2019	DATE -	8/16/2019	REVISED -	

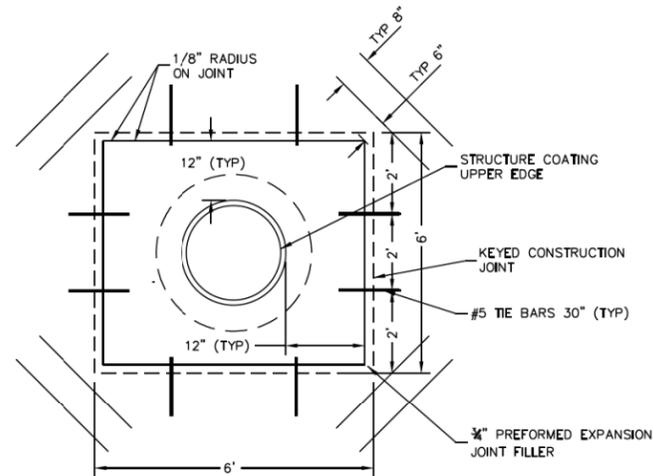
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 2 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	343
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

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2-#4 DEFORMED TIE BARS 30" LONG AT A MID DEPTH (TYPICAL) SEE SPECIAL CONDITION BELOW.



SPECIAL CONDITIONS:

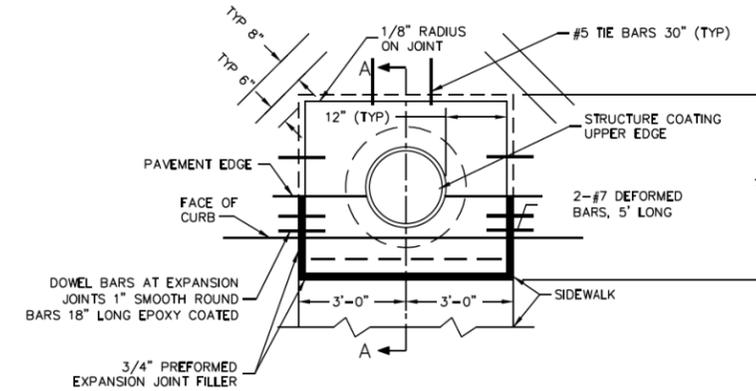
THE BARS SHALL NOT BE INSTALLED AT ISOLATION BOX CORNERS WHERE EITHER SIDE OF THE BOX FORMING SAID CORNER IS A LONGITUDINAL OR TRAVERSE JOINT. MOREOVER, AT NO TIME SHALL A TIE BAR CROSS A JOINT (ALREADY FORMED OR PROPOSED) IN THE VICINITY OF THE ISOLATION BOX. IF THIS SITUATION OCCURS, THE TIE BAR SHALL BE ADJUSTED PARALLEL TO THE AXIS OF THE BAR SO THAT THE END OF THE BAR IS NO CLOSER THAN 1 1/2" TO THE JOINT.

ONLY BY THE DIRECTION OR APPROVAL OF THE COMMISSIONER SHALL THE DISTANCE BETWEEN THE UPPER EXTERNAL CASTING EDGE AND THE EDGE OF STANDARD ISOLATION BOX, SHOWN AS 12", BE INCREASED SO THAT AN IMMOVABLE LONGITUDINAL JOINT AND (OR) TRAVERSE JOINT WILL THEN THENCE FORM (O) SIDE (S) OF THE BOX. THIS ADJUSTMENT WILL BE ALLOWED ONLY WHEN THE DISTANCE BETWEEN THE SIDE OF THE STANDARD ISOLATION BOX AND IMMOVABLE JOINT IS 18" OR LESS.

BACKFILL MATERIAL AROUND STRUCTURE WILL BE COMPACTED TO 95% MODIFIED PROCTOR PRIOR TO THE PLACEMENT OF CONCRETE WITHIN THE ISOLATION BOX.

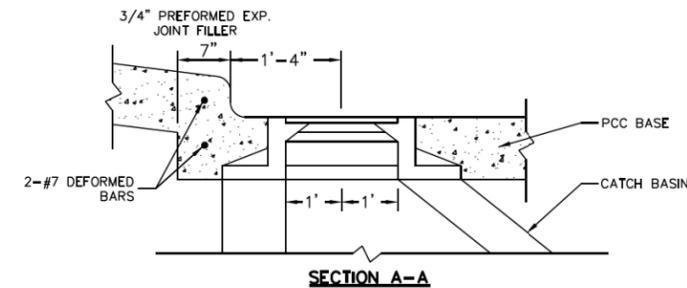


DATE	REVISION	CITY OF CHICAGO		
1/1/2014	REVISION 1	DETAILS OF STRUCTURE CASTING ISOLATION BOX		
		DATE	SHEET	DRAWN BY
		12/21/06	A-2-10A	CDOT



NOTES:

- STRUCTURE CASTING MAY BE ROUND OR RECTANGULAR.
- CONCRETE WITHIN THE ISOLATION BOX WILL BE OF THE SAME TYPE AND THICKNESS AS CONCRETE IN THE ADJACENT PAVEMENT.



DATE	REVISION	CITY OF CHICAGO		
1/1/2014	REVISION 1	DETAILS OF STRUCTURE CASTING ISOLATION BOX FOR P.C.C. PAVEMENT AND BASE COURSE		
		DATE	SHEET	DRAWN BY
		12/22/06	A-2-10B	CDOT



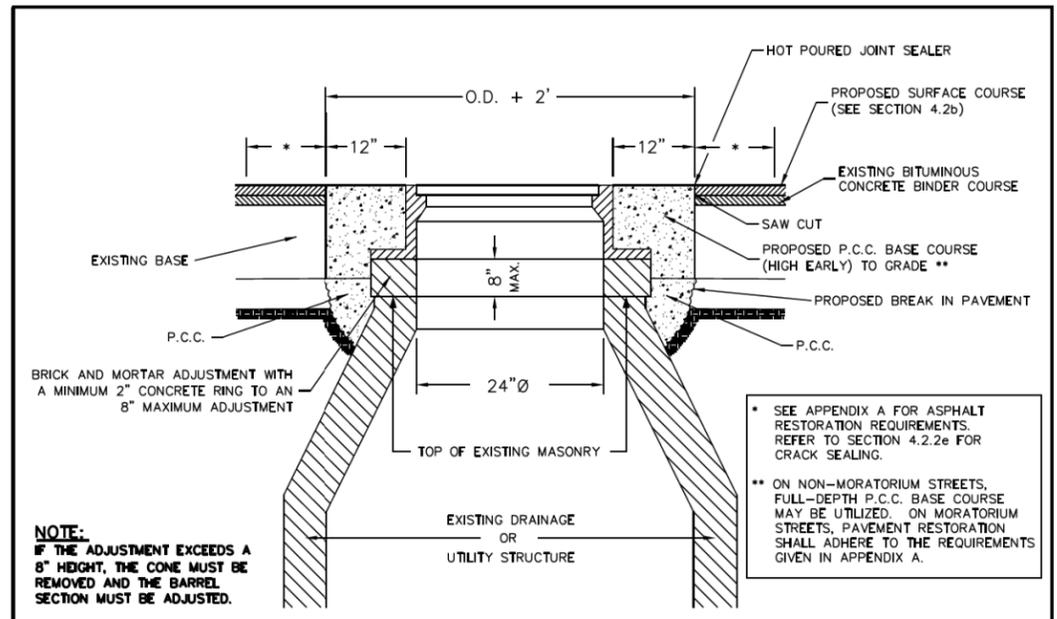
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PLOT SCALE = 2.0000' / 1" =	CHECKED - CDOT	REVISED -
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 3 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	344
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

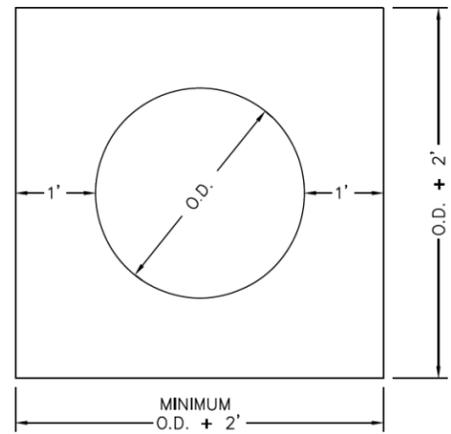
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NOTE:
 IF THE ADJUSTMENT EXCEEDS A
 8" HEIGHT, THE CONE MUST BE
 REMOVED AND THE BARREL
 SECTION MUST BE ADJUSTED.

- * SEE APPENDIX A FOR ASPHALT RESTORATION REQUIREMENTS. REFER TO SECTION 4.2.2e FOR CRACK SEALING.
- ** ON NON-MORATORIUM STREETS, FULL-DEPTH P.C.C. BASE COURSE MAY BE UTILIZED. ON MORATORIUM STREETS, PAVEMENT RESTORATION SHALL ADHERE TO THE REQUIREMENTS GIVEN IN APPENDIX A.

PLAN VIEW (BASE TO GRADE)



MANHOLE COVER FRONT VIEW



	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	FRAME ADJUSTMENT IN PAVEMENT		
	1/27/2016	REVISION 2			
			DATE	SHEET	DRAWN BY
			12/22/06	A-2-12	CDOT



D62J31-Sht-CDOT-DETAIL-04.dgn	DESIGNED - CDOT	REVISED -
USER NAME = ChiuA	DRAWN - CDOT	REVISED -
PLOT SCALE = 2.0000' / 1" =	CHECKED - CDOT	REVISED -
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

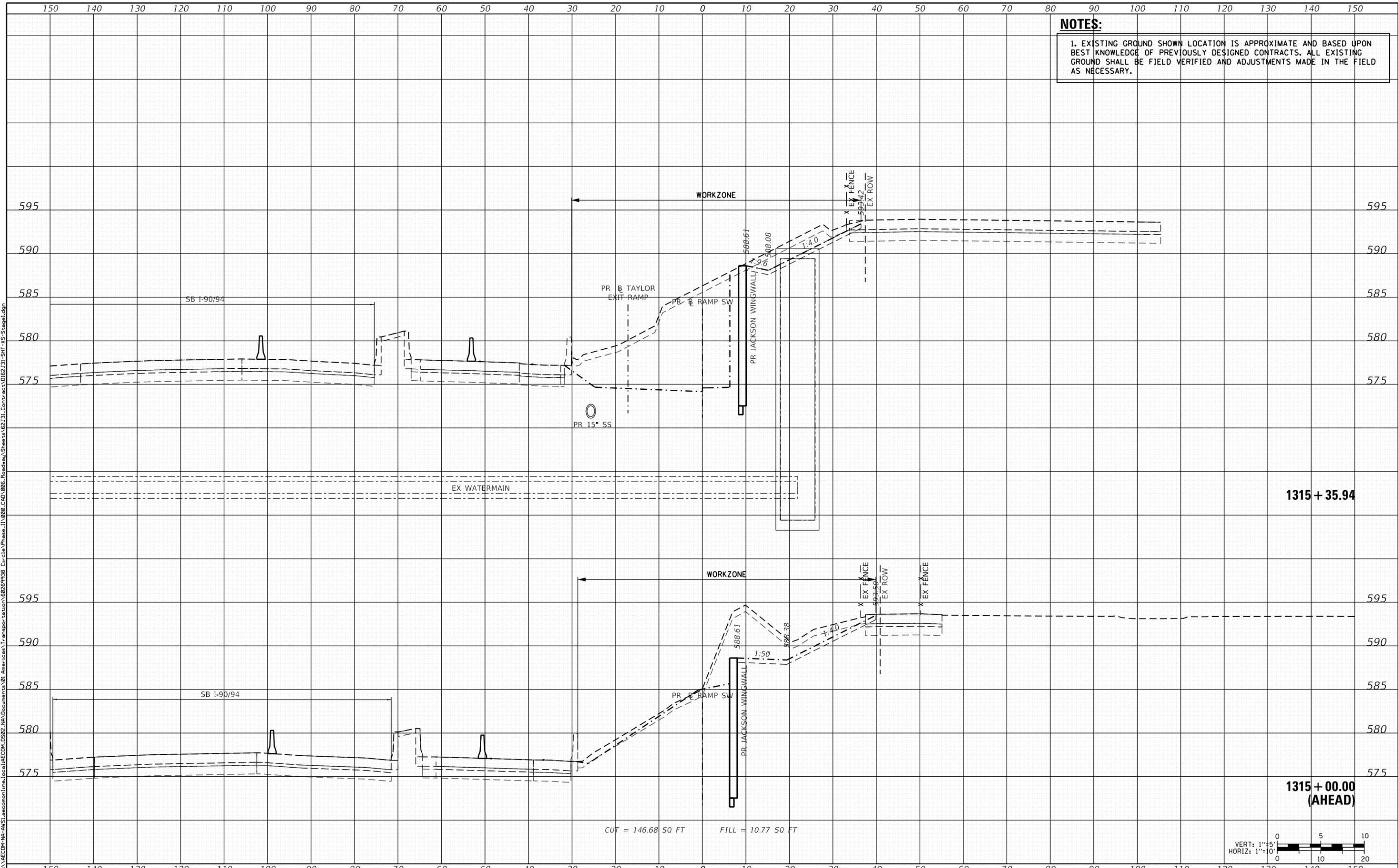
CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 4 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	345
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

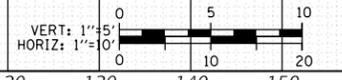
NOTES:
 1. EXISTING GROUND SHOWN LOCATION IS APPROXIMATE AND BASED UPON BEST KNOWLEDGE OF PREVIOUSLY DESIGNED CONTRACTS. ALL EXISTING GROUND SHALL BE FIELD VERIFIED AND ADJUSTMENTS MADE IN THE FIELD AS NECESSARY.

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



CUT = 146.68 SQ FT FILL = 10.77 SQ FT



D162J31-SHT-XS-Stage1.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 1 OF 11 SHEETS STA. 1315+00.00 TO STA. 1315+35.94

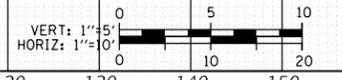
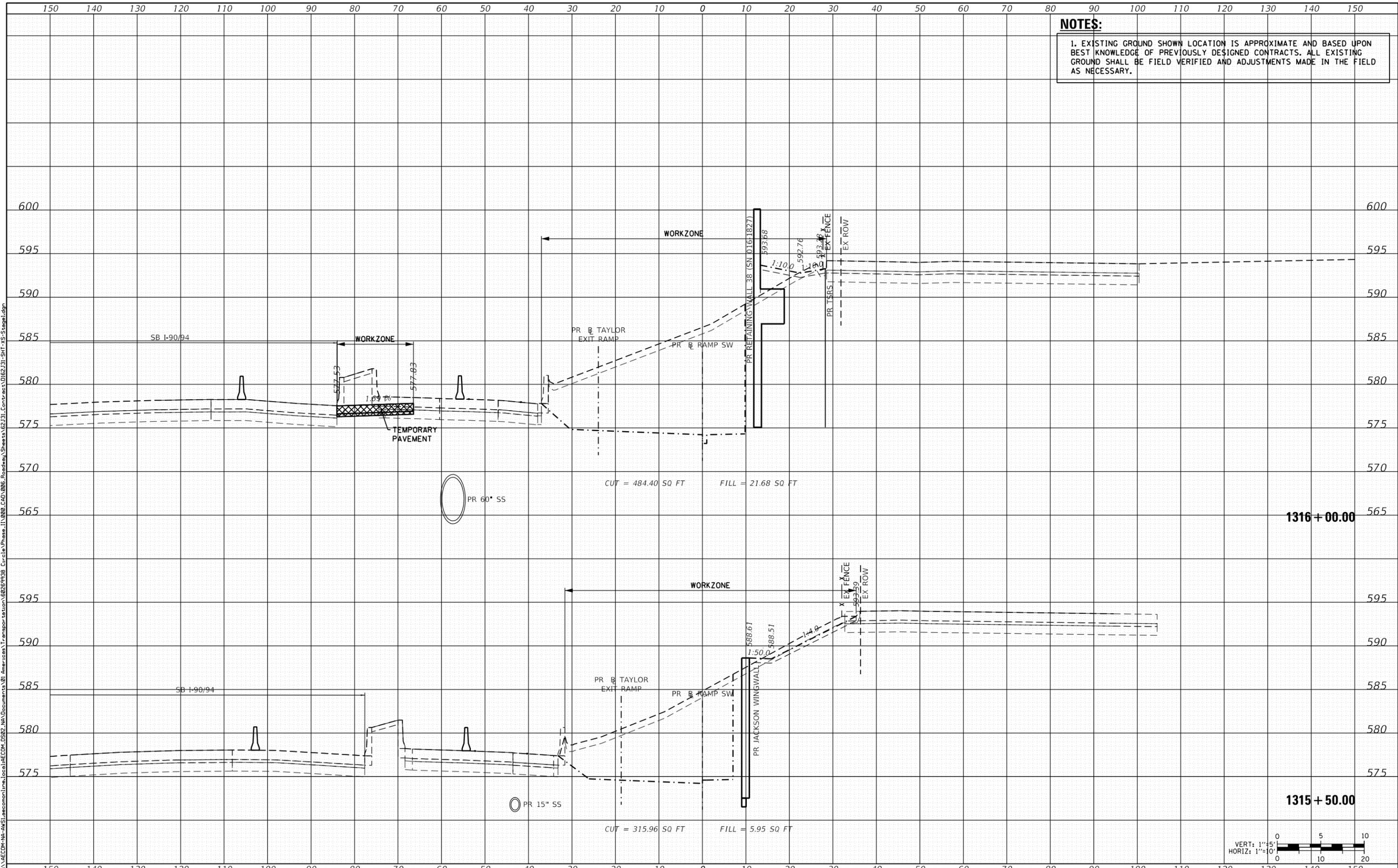
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	346
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

NOTES:
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



D162J31-SHT-XS-Stage1.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 2 OF 11 SHEETS STA. 1315+50.00 TO STA. 1316+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	347
CONTRACT NO. 62J31				

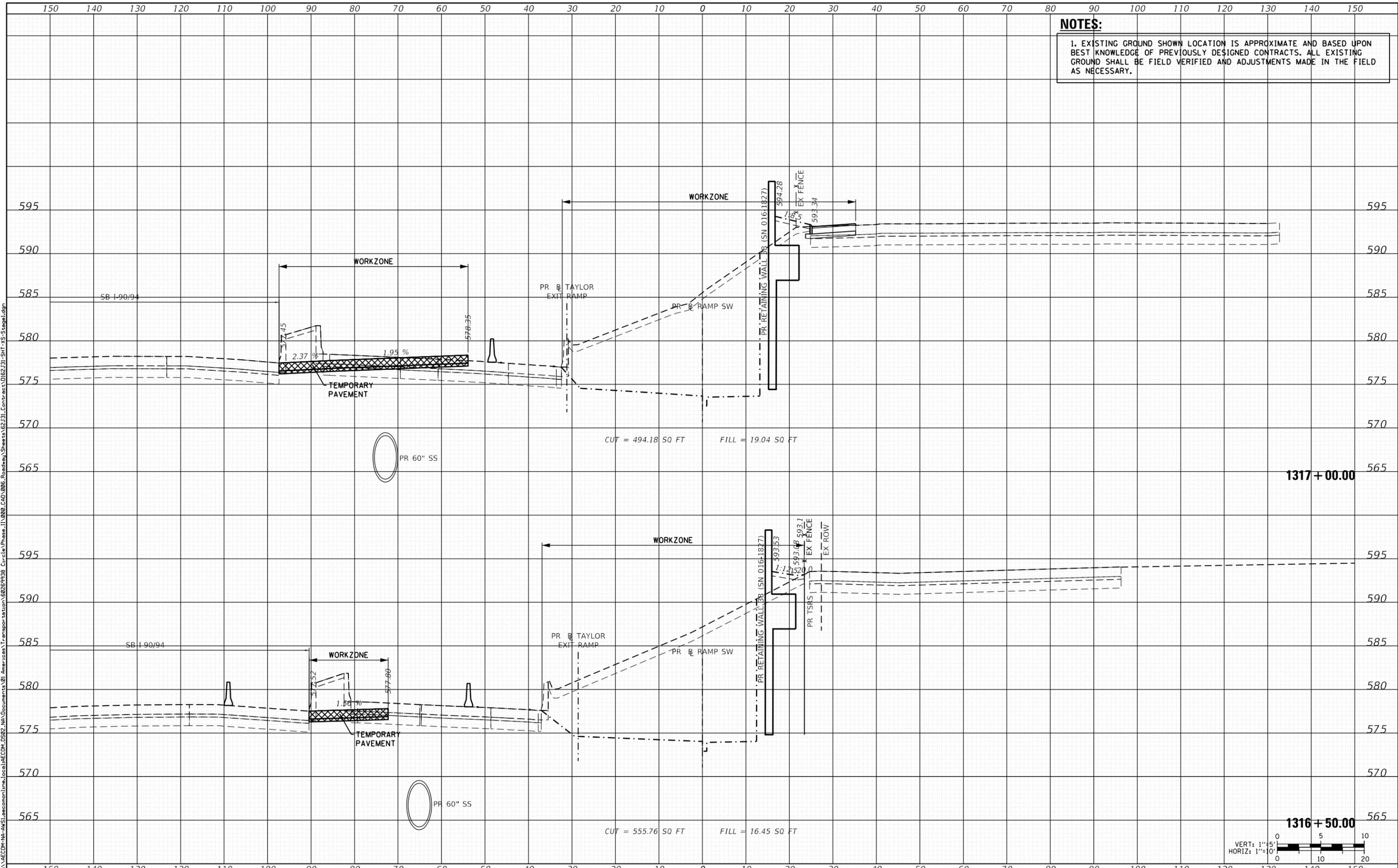
ILLINOIS FED. AID PROJECT

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NOTES:
 1. EXISTING GROUND SHOWN LOCATION IS APPROXIMATE AND BASED UPON BEST KNOWLEDGE OF PREVIOUSLY DESIGNED CONTRACTS. ALL EXISTING GROUND SHALL BE FIELD VERIFIED AND ADJUSTMENTS MADE IN THE FIELD AS NECESSARY.

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



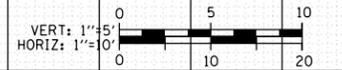
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USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 3 OF 11 SHEETS STA. 1316+50.00 TO STA. 1317+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	348
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

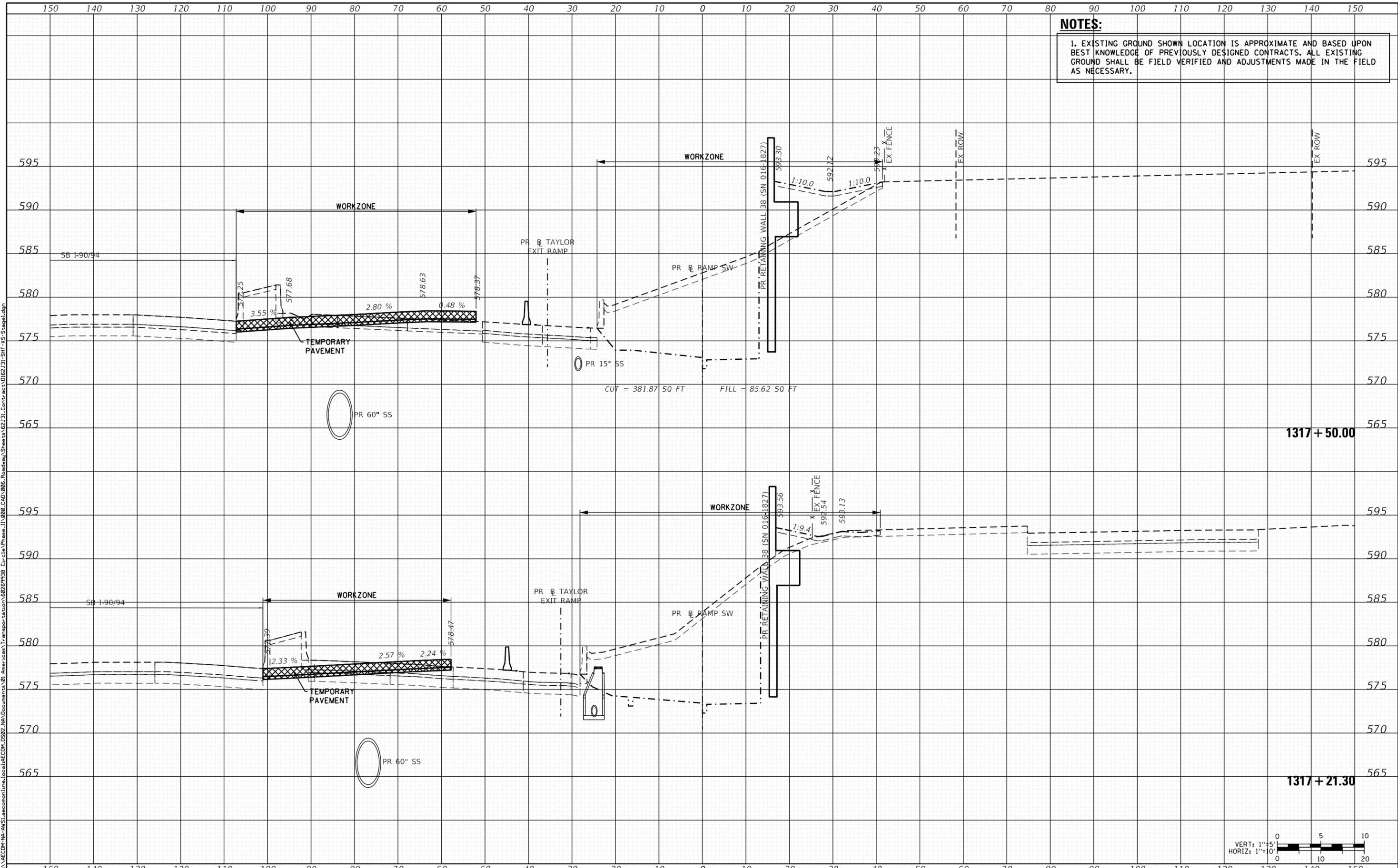


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NOTES:
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DATE	
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FINAL SURVEY	
NOTE BOOK	
PLOTTED	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
PLOTTED	
AREAS CHECKED	



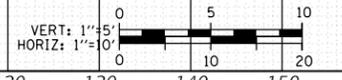
D162J31-SHT-XS-Stage1.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 4 OF 11 SHEETS STA. 1317+21.30 TO STA. 1317+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	349
CONTRACT NO. 62J31				

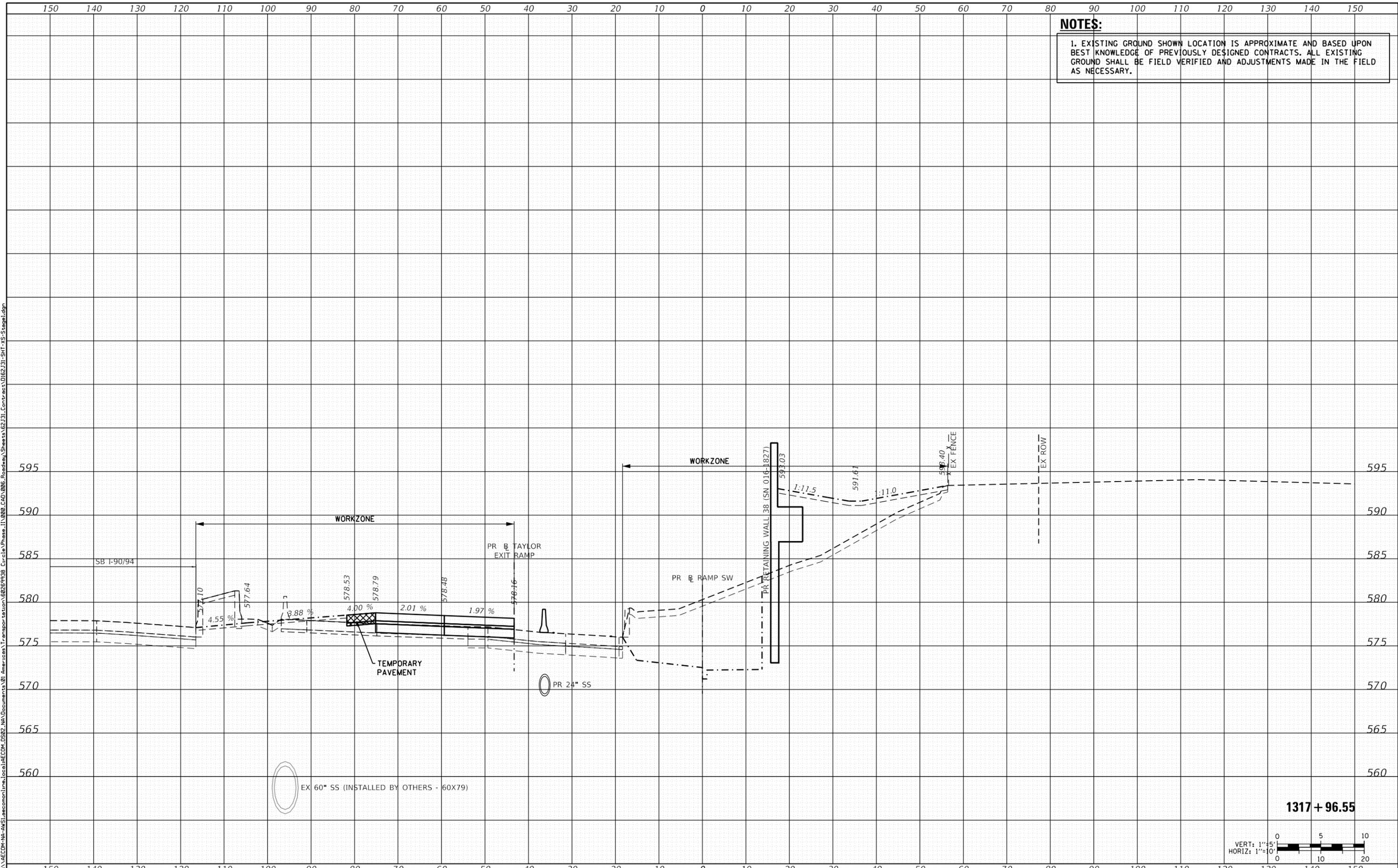


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DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

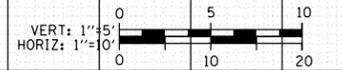


D162J31-SHT-XS-Stage1.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 5 OF 11 SHEETS STA. 1317+96.55 TO STA. 1317+96.55



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	350
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

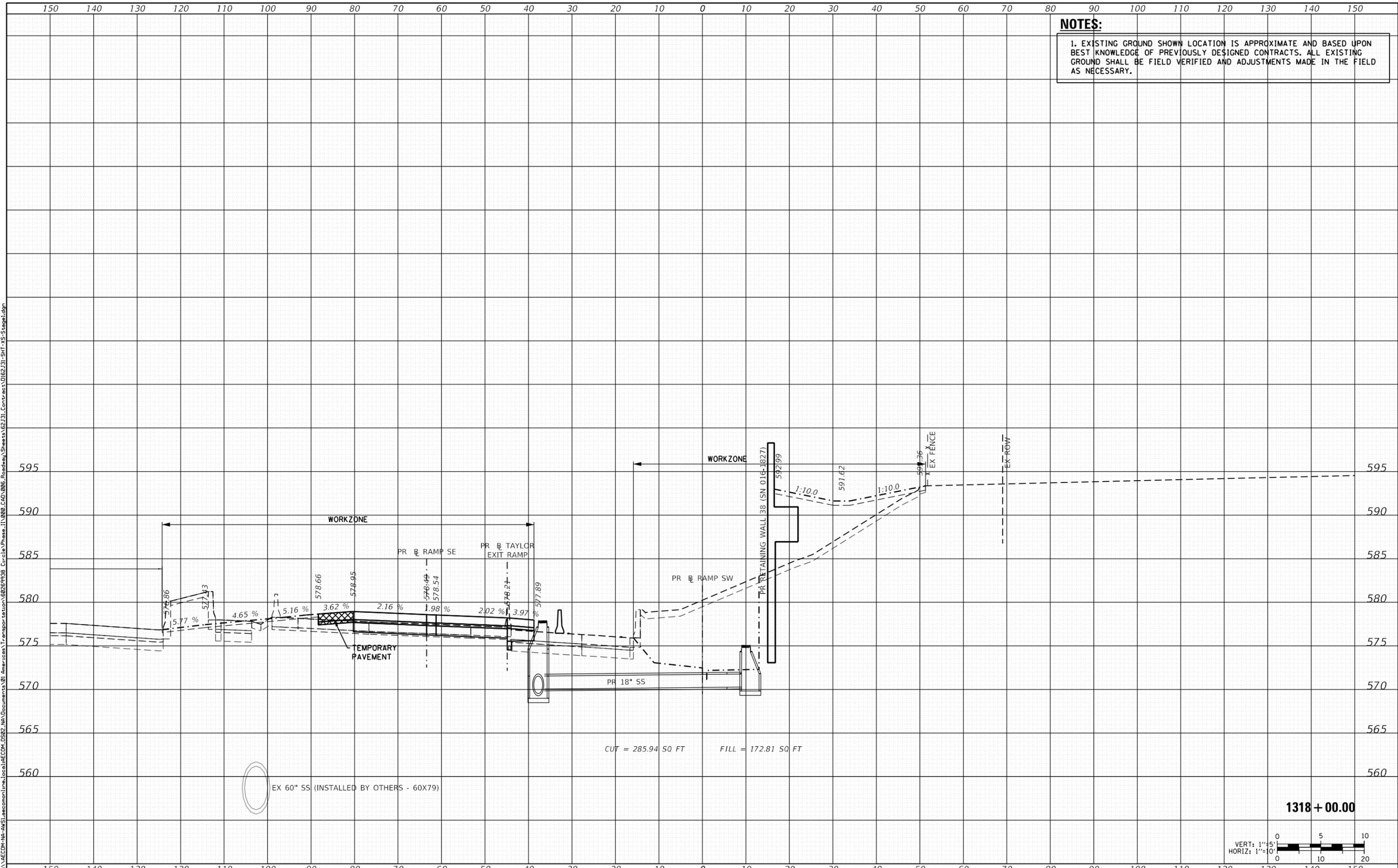
1317 + 96.55

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NOTES:
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



D162J31-SHT-XS-Stage1.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

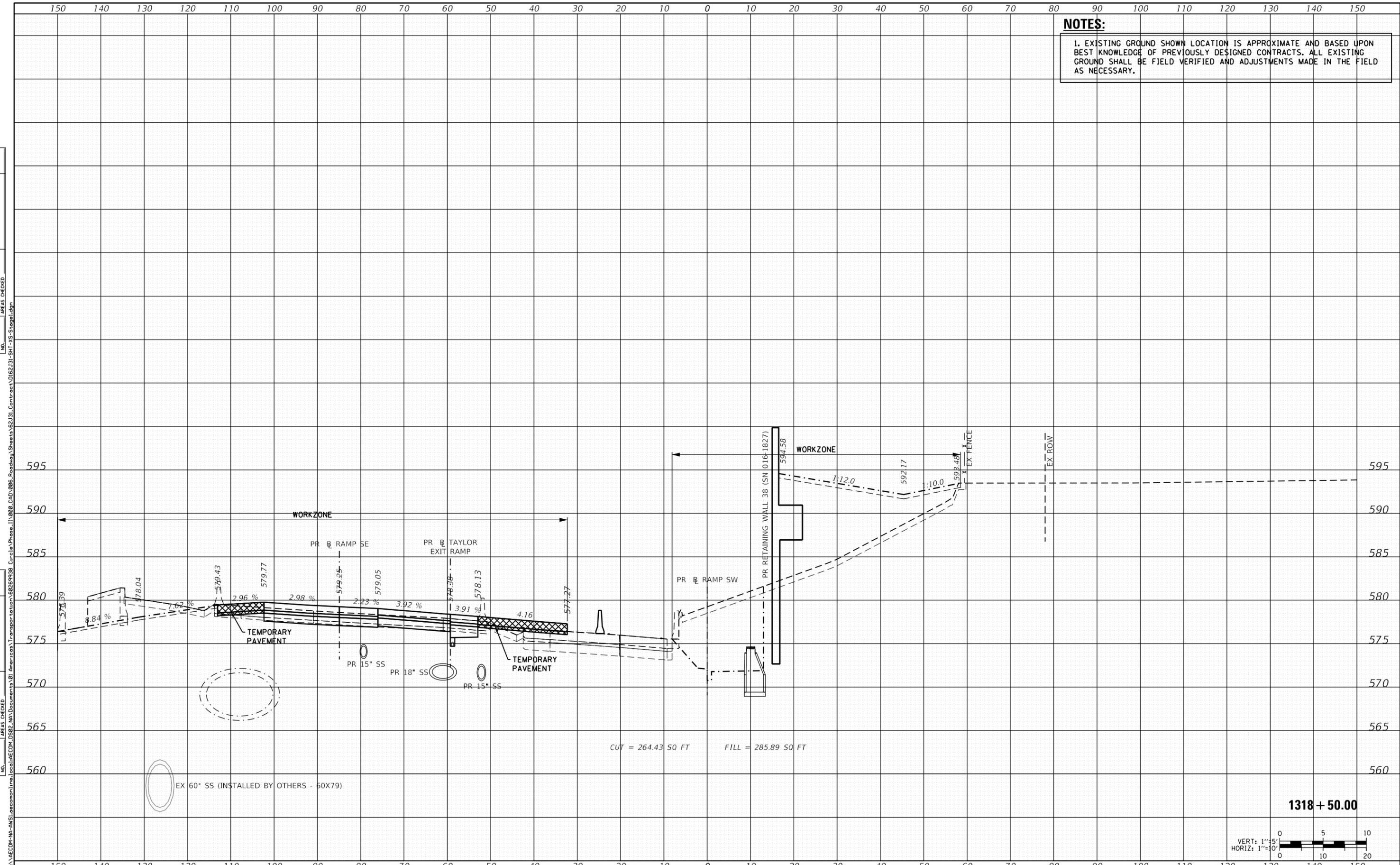
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	351
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

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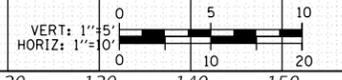
DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



CUT = 264.43 SQ FT FILL = 285.89 SQ FT

1318 + 50.00



D162J31-SHT-XS-Stage1.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 7 OF 11 SHEETS STA. 1318+50.00 TO STA. 1318+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	352
CONTRACT NO. 62J31				

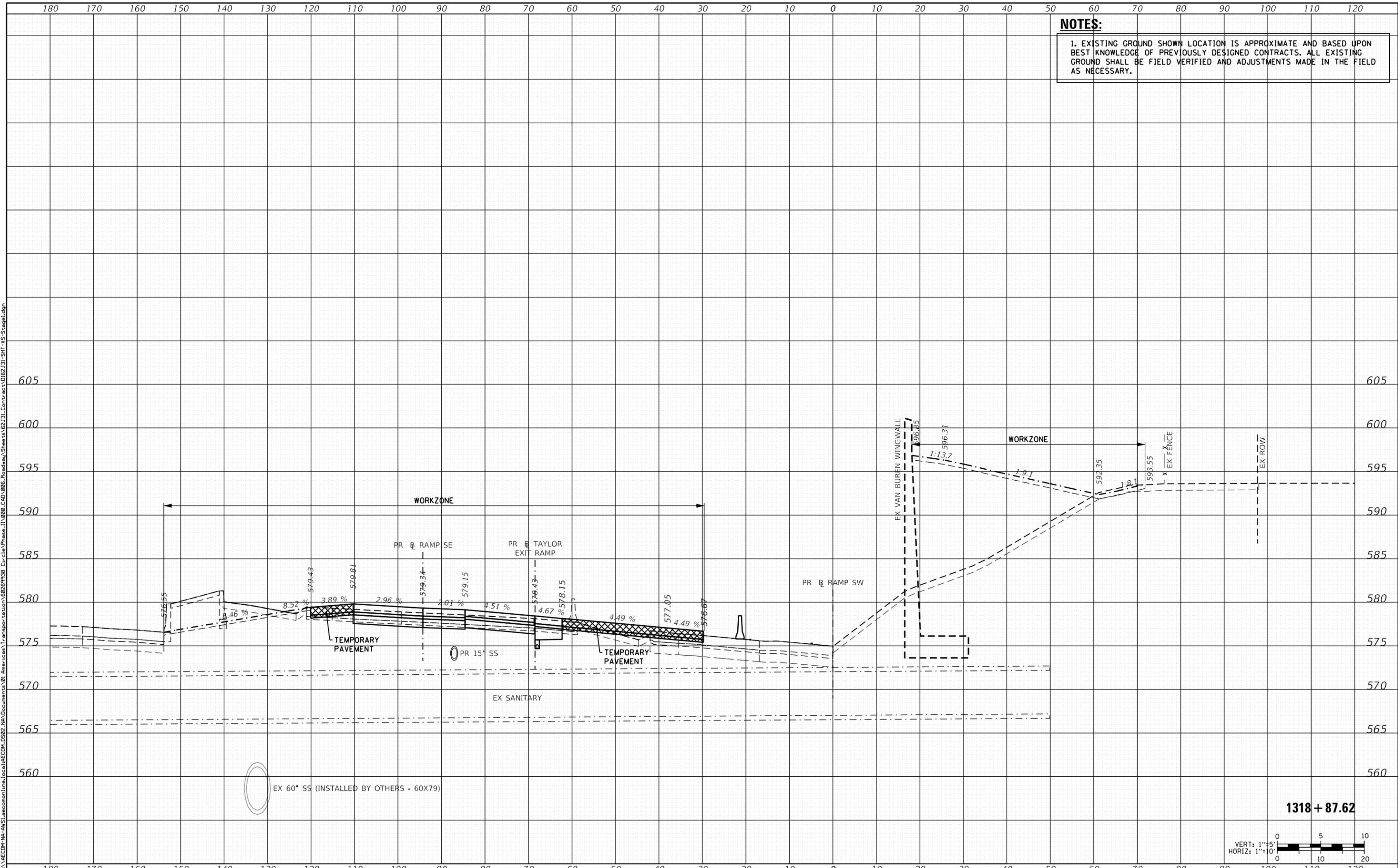
ILLINOIS FED. AID PROJECT

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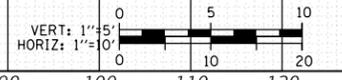
NOTES:
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DATE	
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FINAL SURVEY	
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SURVEYED	
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AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



1318 + 87.62



D162J31-SHT-XS-Stage1.dgn
 USER NAME = andy.becker
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/15/2019

DESIGNED - ATB
 DRAWN - ATB
 CHECKED - MJE
 DATE - 8/16/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 8 OF 11 SHEETS STA. 1318+87.62 TO STA. 1318+87.62

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	353
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

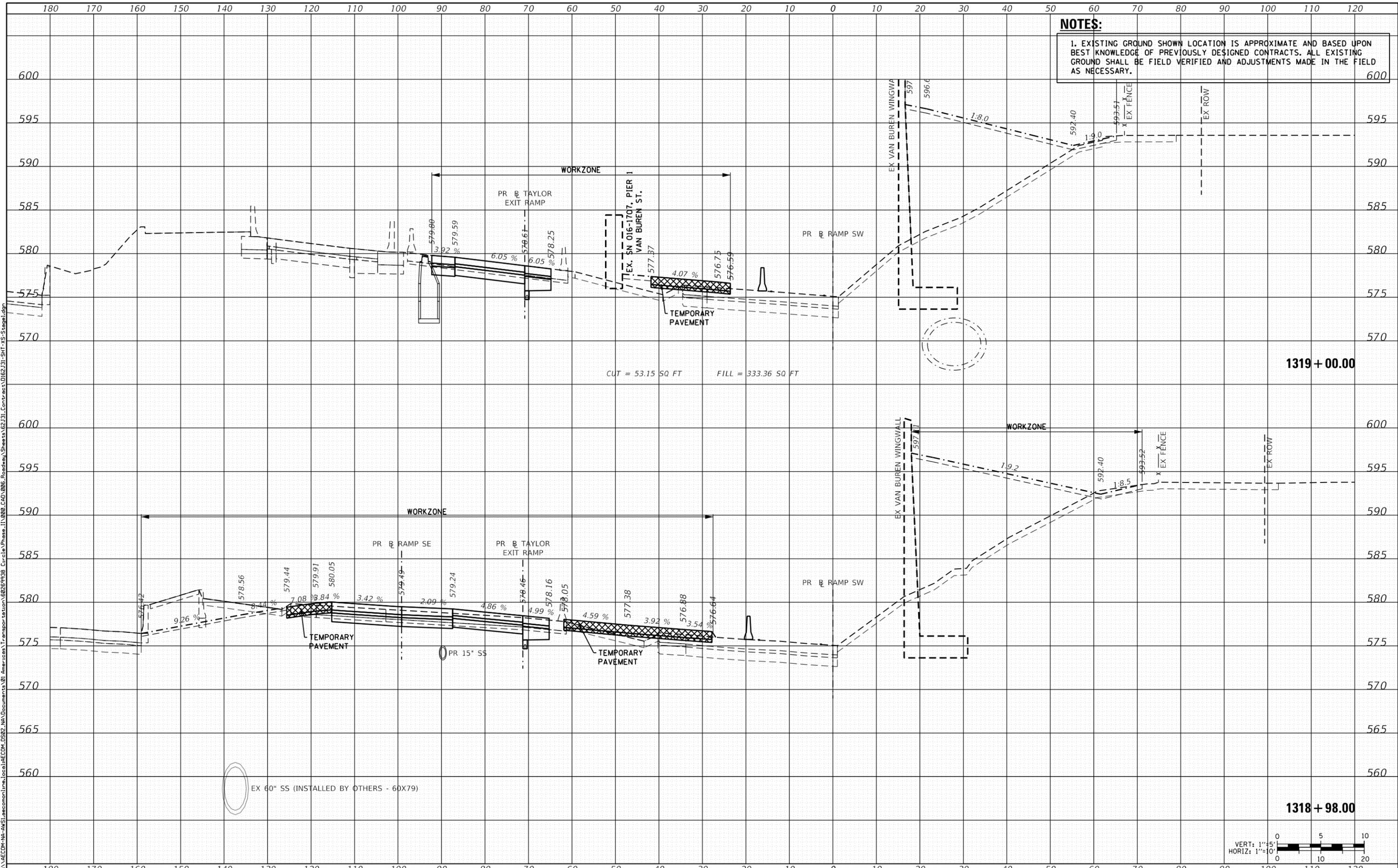
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DATE	
BY	
FINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
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NOTES:
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1



D162J31-SHT-XS-Stage1.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

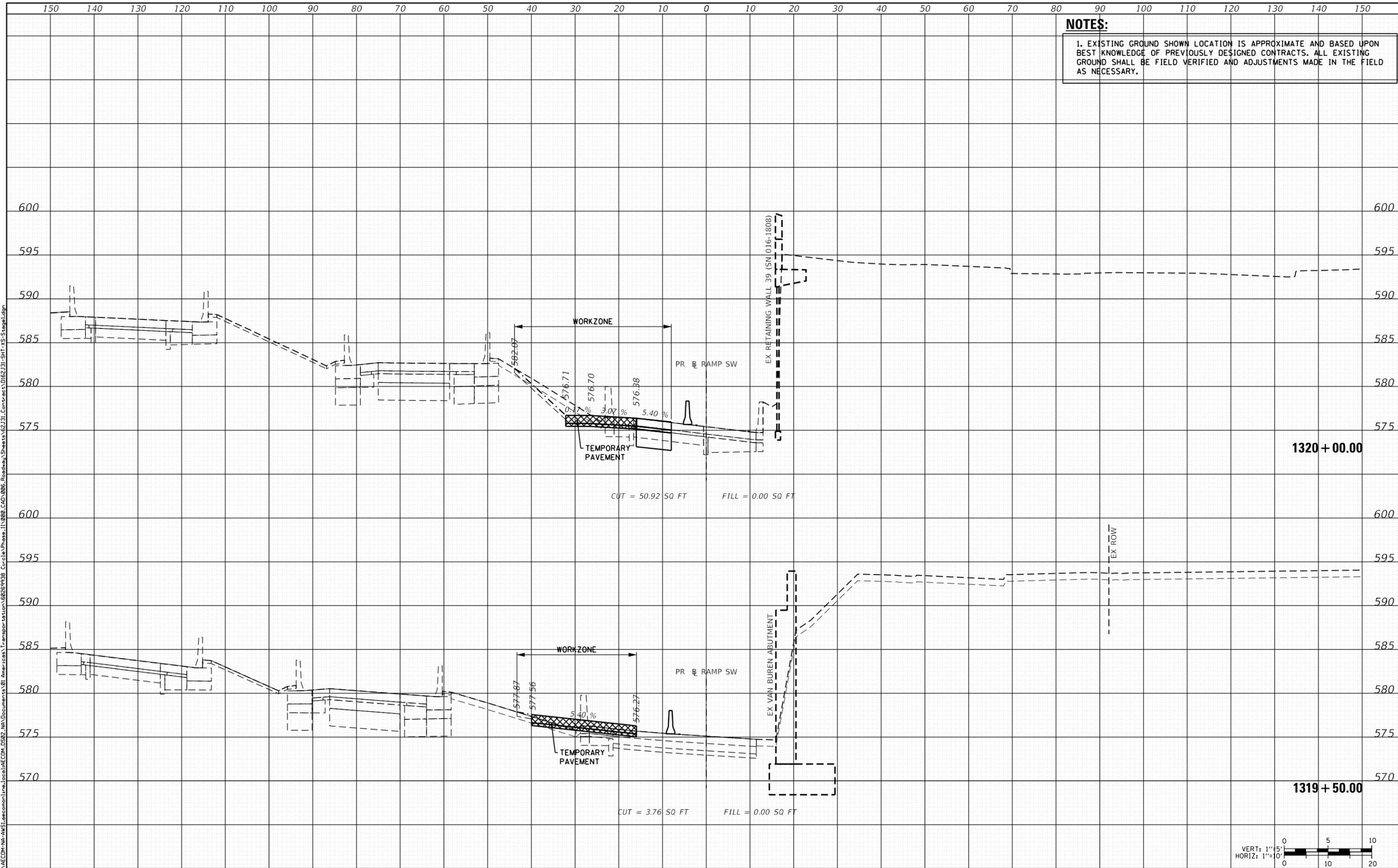
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	354
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

NOTES:
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DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	



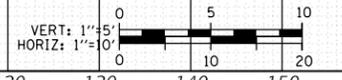
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USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 10 OF 11 SHEETS STA. 1319+50.00 TO STA. 1320+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	355
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

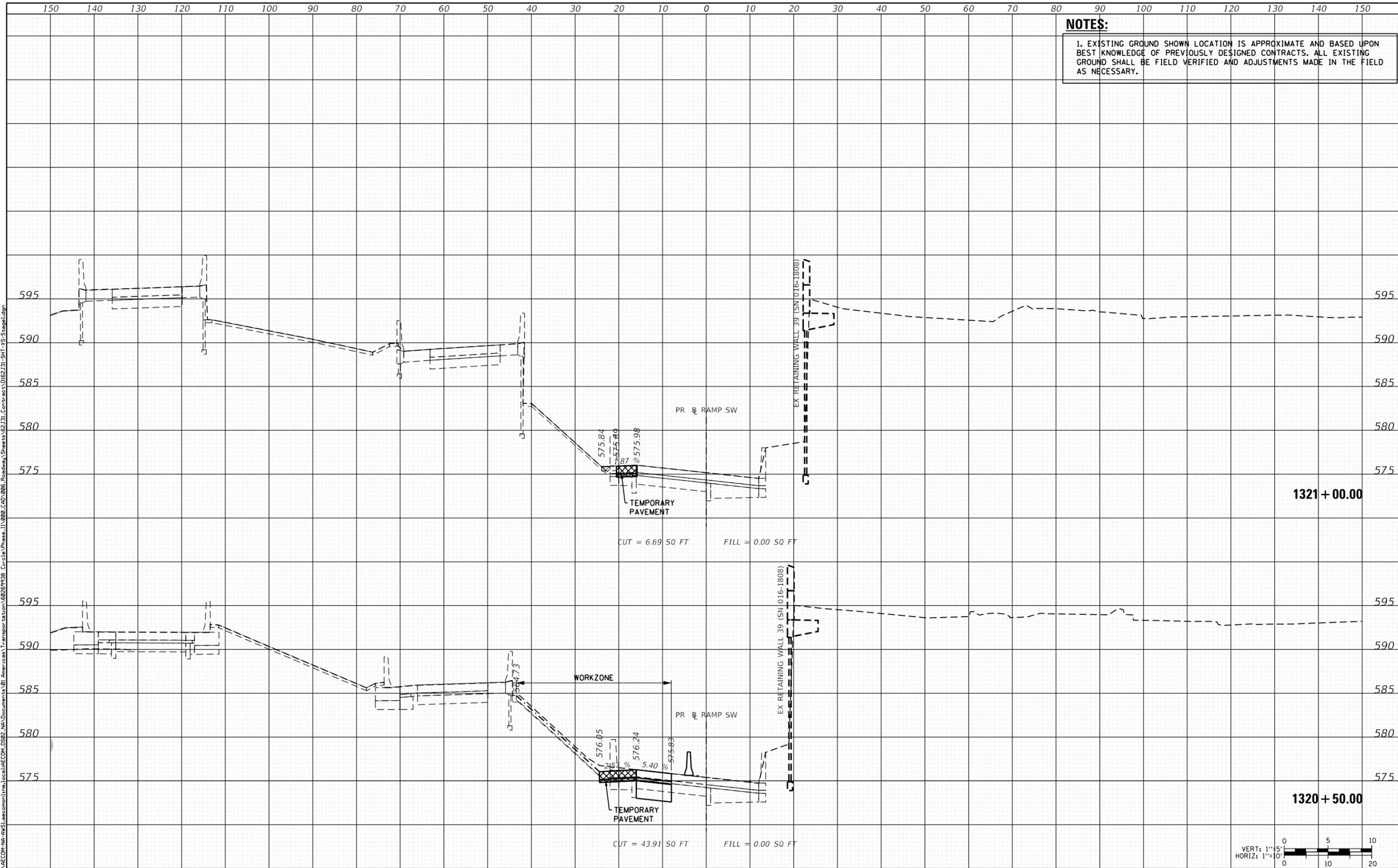


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NOTES:
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DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	



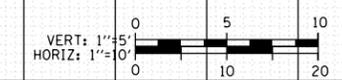
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USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 1

SCALE: 1:5V, 1:10H SHEET 11 OF 11 SHEETS STA. 1320+50.00 TO STA. 1321+00.00

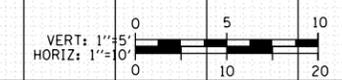
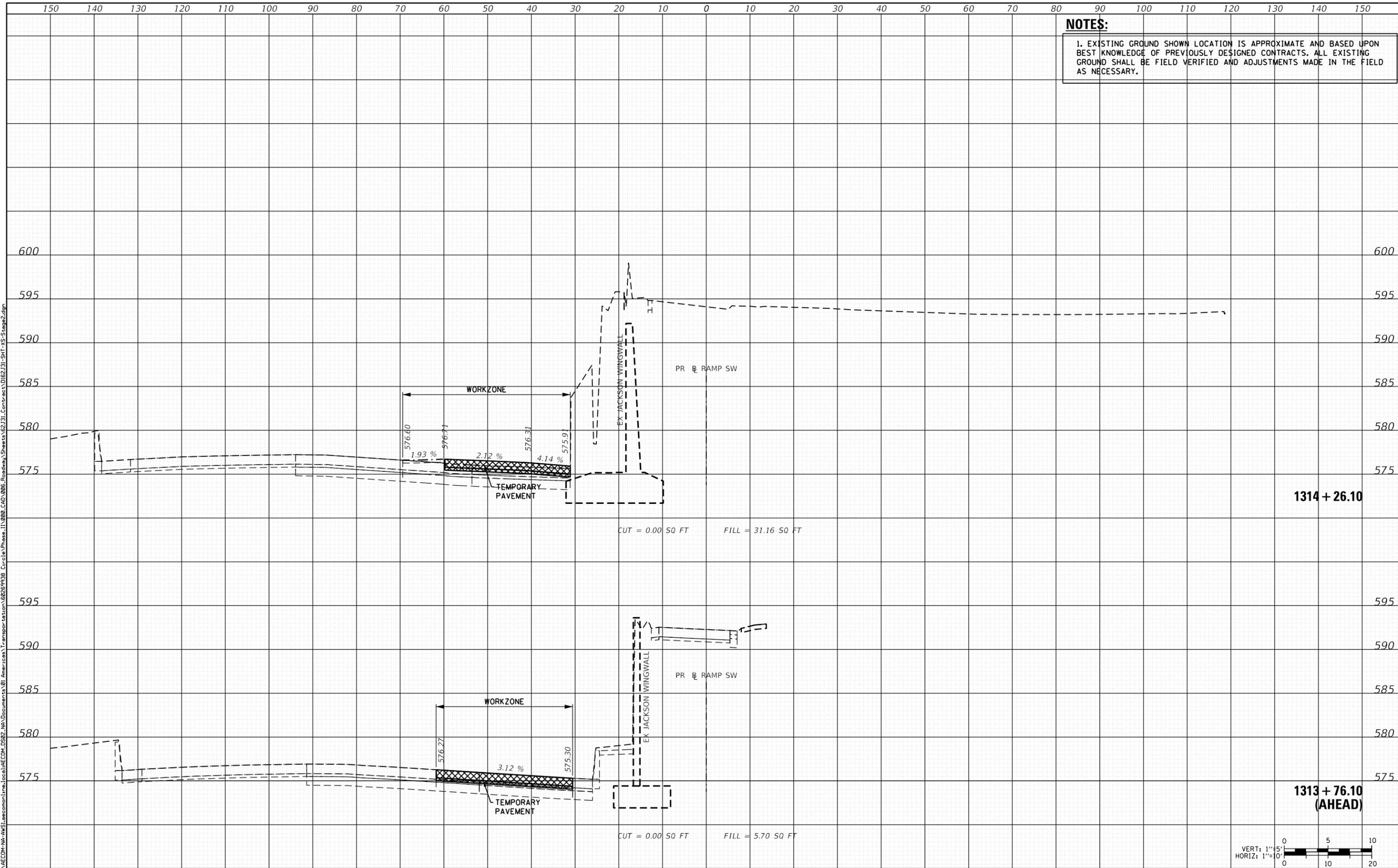
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90/94/290	2019-054-I	COOK	400	356
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				



NOTES:
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 1 OF 11 SHEETS STA. 1313+76.10 TO STA. 1314+26.10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	357
CONTRACT NO. 62J31				

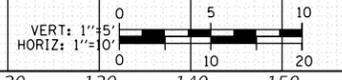
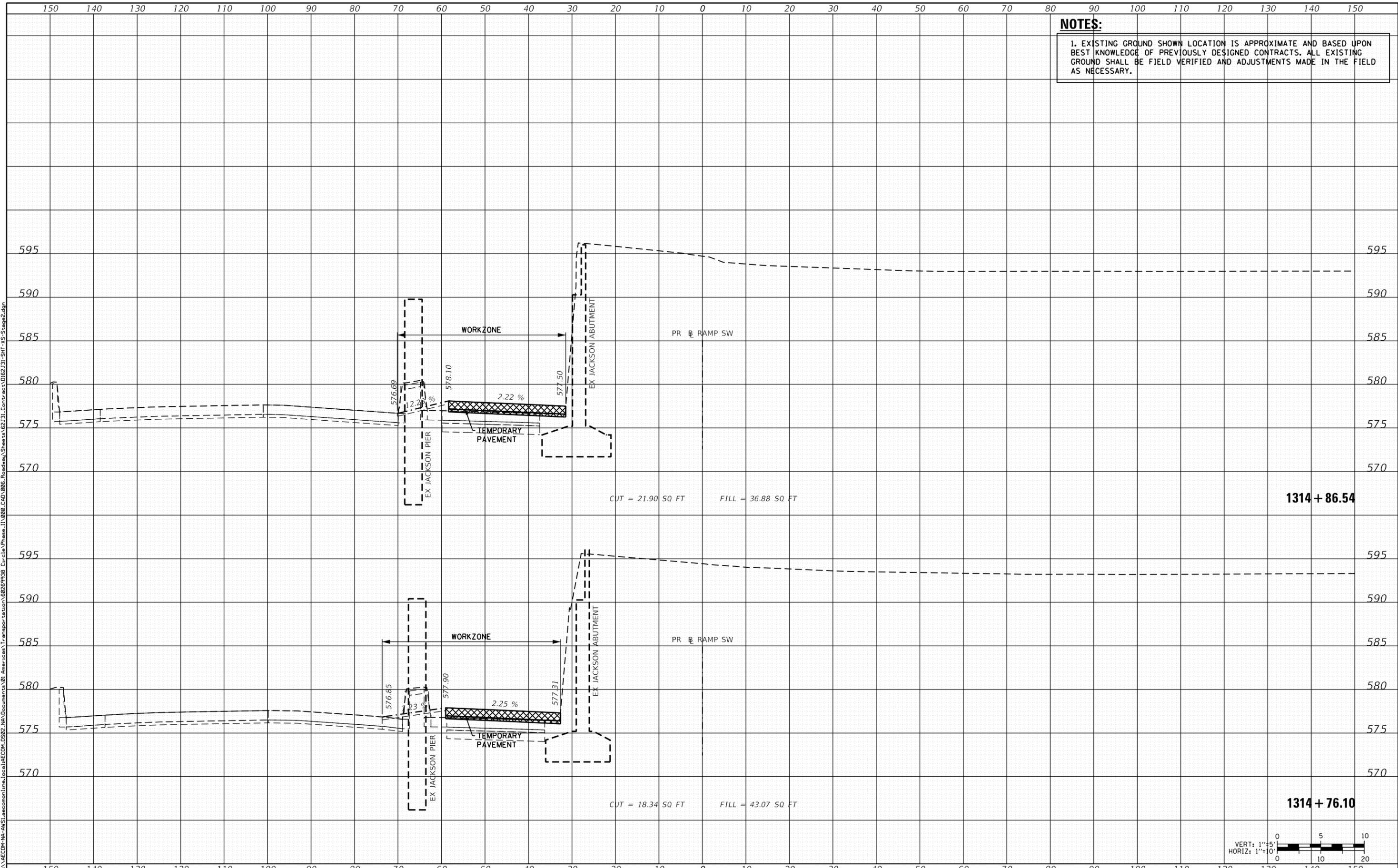
ILLINOIS FED. AID PROJECT

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NOTES:
 1. EXISTING GROUND SHOWN LOCATION IS APPROXIMATE AND BASED UPON BEST KNOWLEDGE OF PREVIOUSLY DESIGNED CONTRACTS. ALL EXISTING GROUND SHALL BE FIELD VERIFIED AND ADJUSTMENTS MADE IN THE FIELD AS NECESSARY.

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 2 OF 11 SHEETS STA. 1314+76.10 TO STA. 1314+86.54

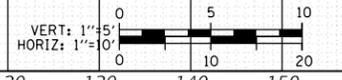
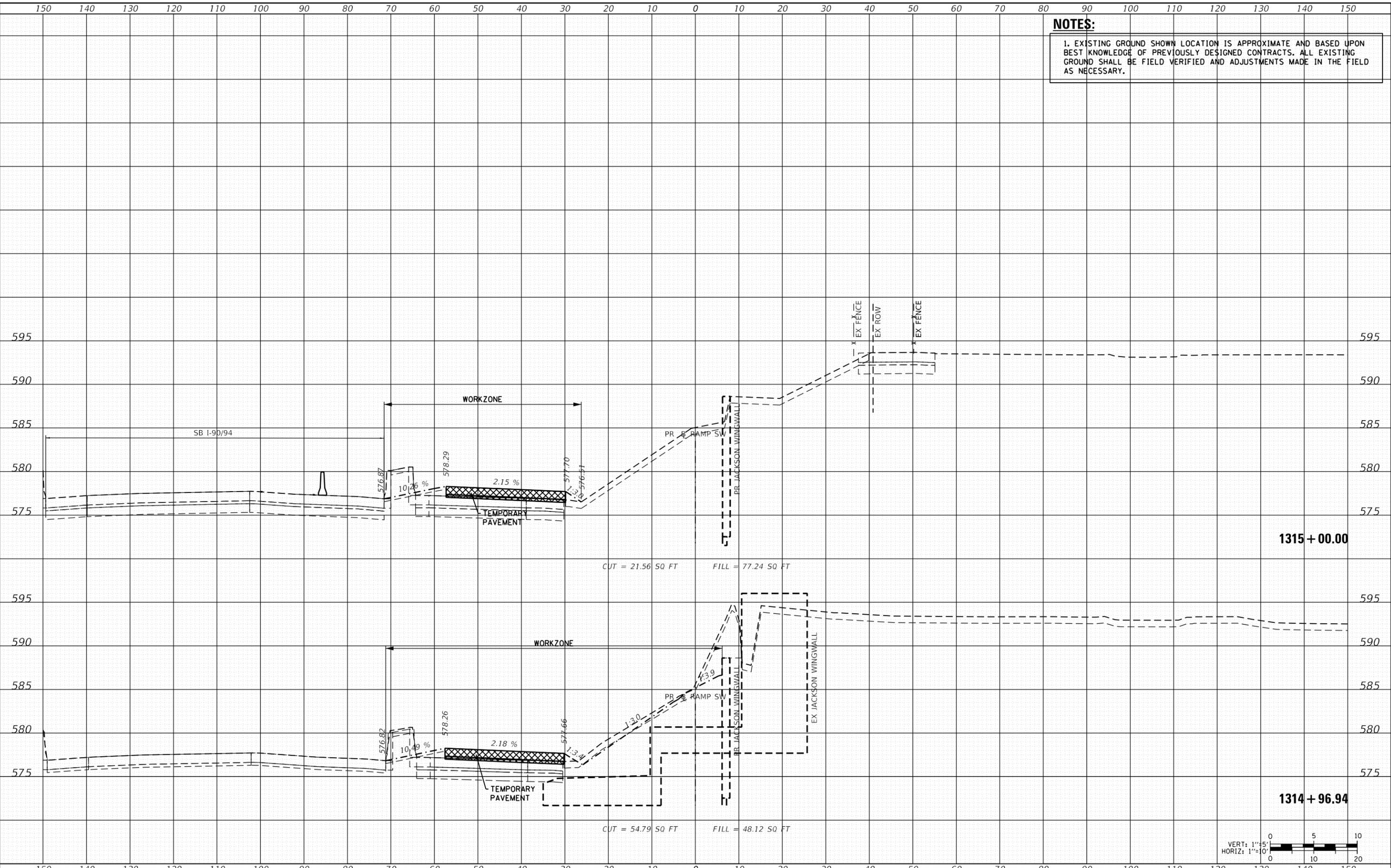
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	358
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

NOTES:
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DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 3 OF 11 SHEETS STA. 1314+96.94 TO STA. 1315+00.00

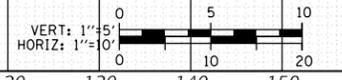
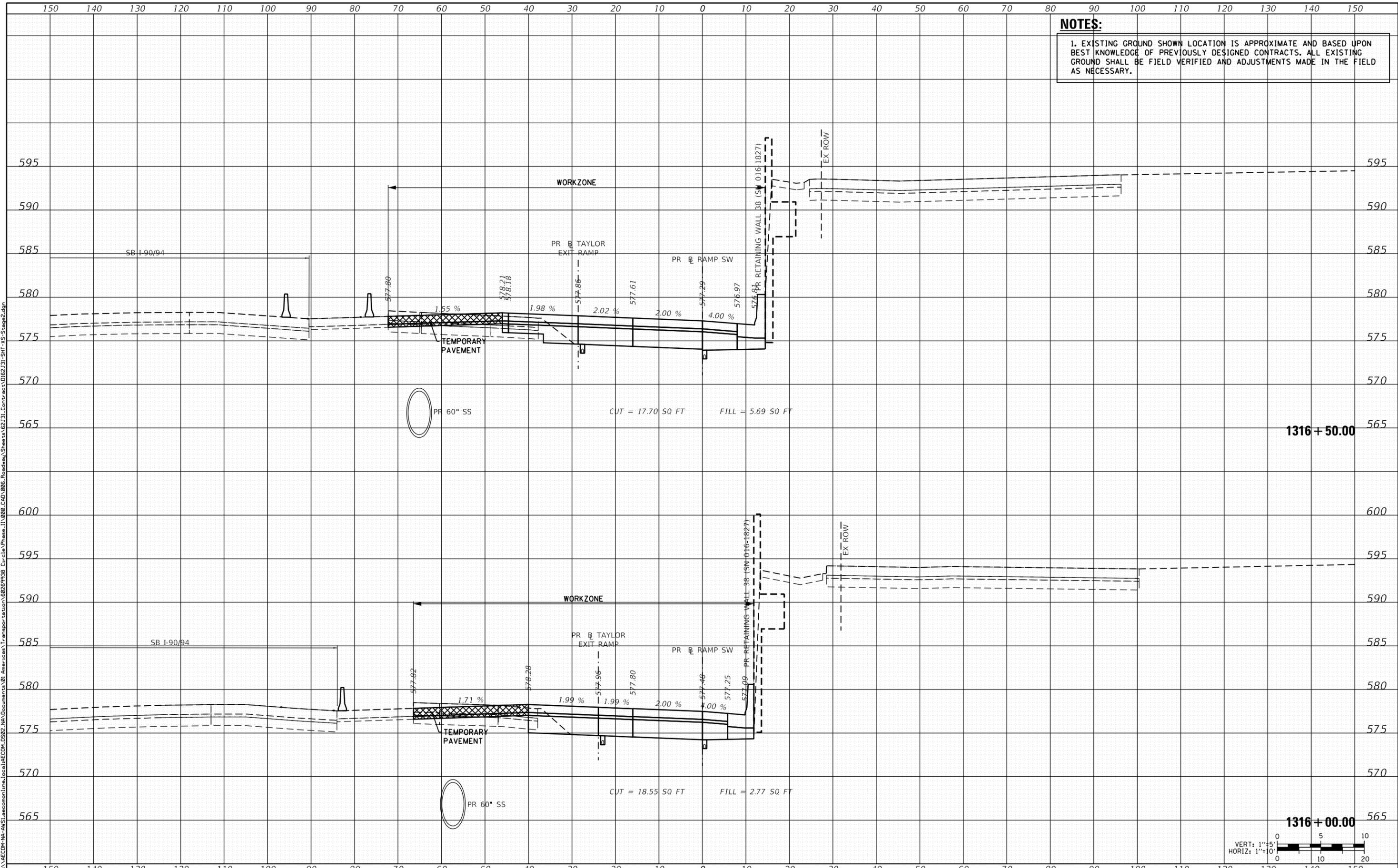
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	359
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

NOTES:
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DATE	
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FINAL SURVEY	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



D162J31-SHT-XS-Stage2.dgn
 USER NAME = andy.becker
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/15/2019

DESIGNED - ATB
 DRAWN - ATB
 CHECKED - MJE
 DATE - 8/16/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 5 OF 11 SHEETS STA. 1316+00.00 TO STA. 1316+50.00

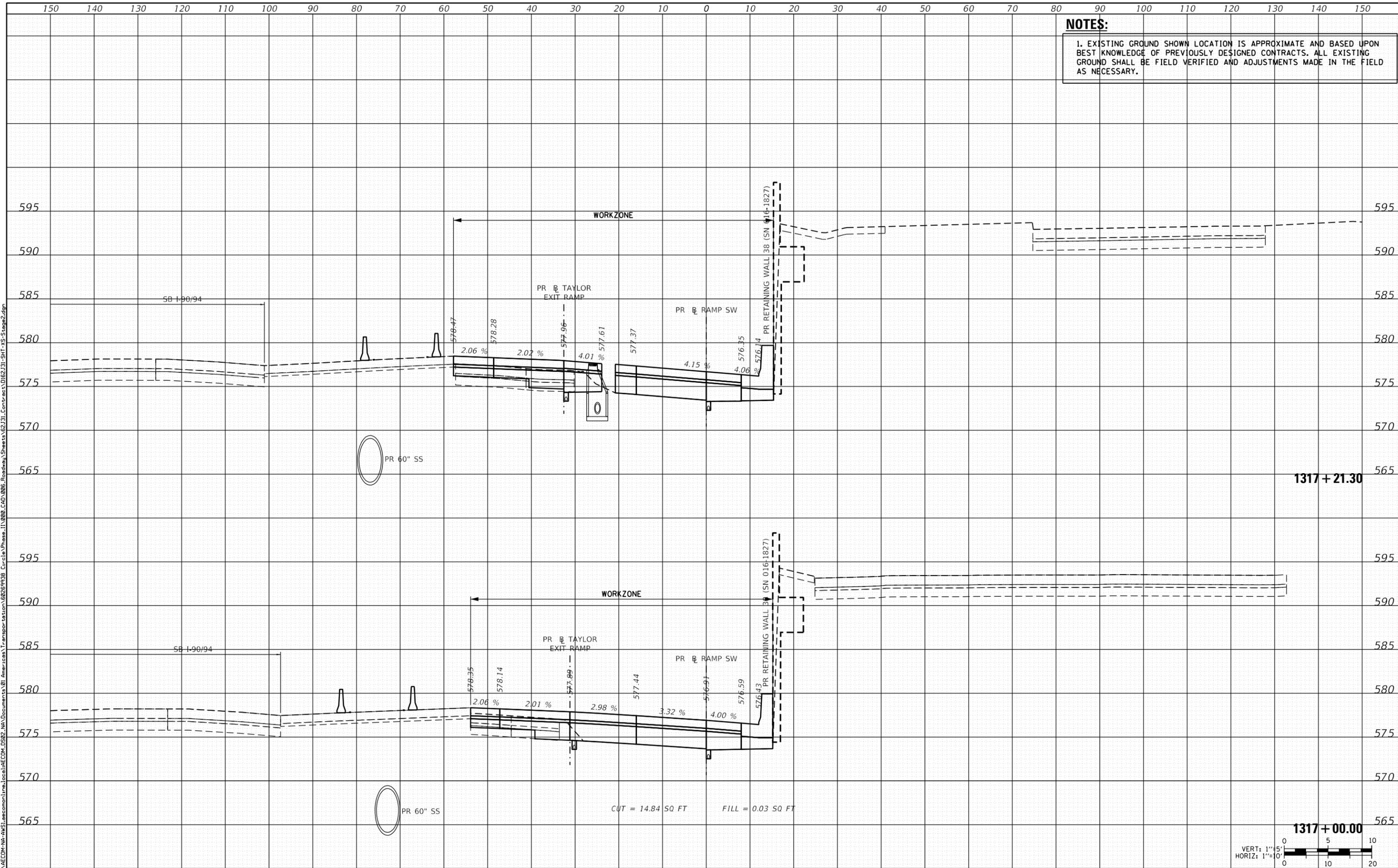
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	361
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

NOTES:
 1. EXISTING GROUND SHOWN LOCATION IS APPROXIMATE AND BASED UPON BEST KNOWLEDGE OF PREVIOUSLY DESIGNED CONTRACTS. ALL EXISTING GROUND SHALL BE FIELD VERIFIED AND ADJUSTMENTS MADE IN THE FIELD AS NECESSARY.

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



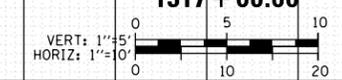
D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 6 OF 11 SHEETS STA. 1317+00.00 TO STA. 1317+21.30

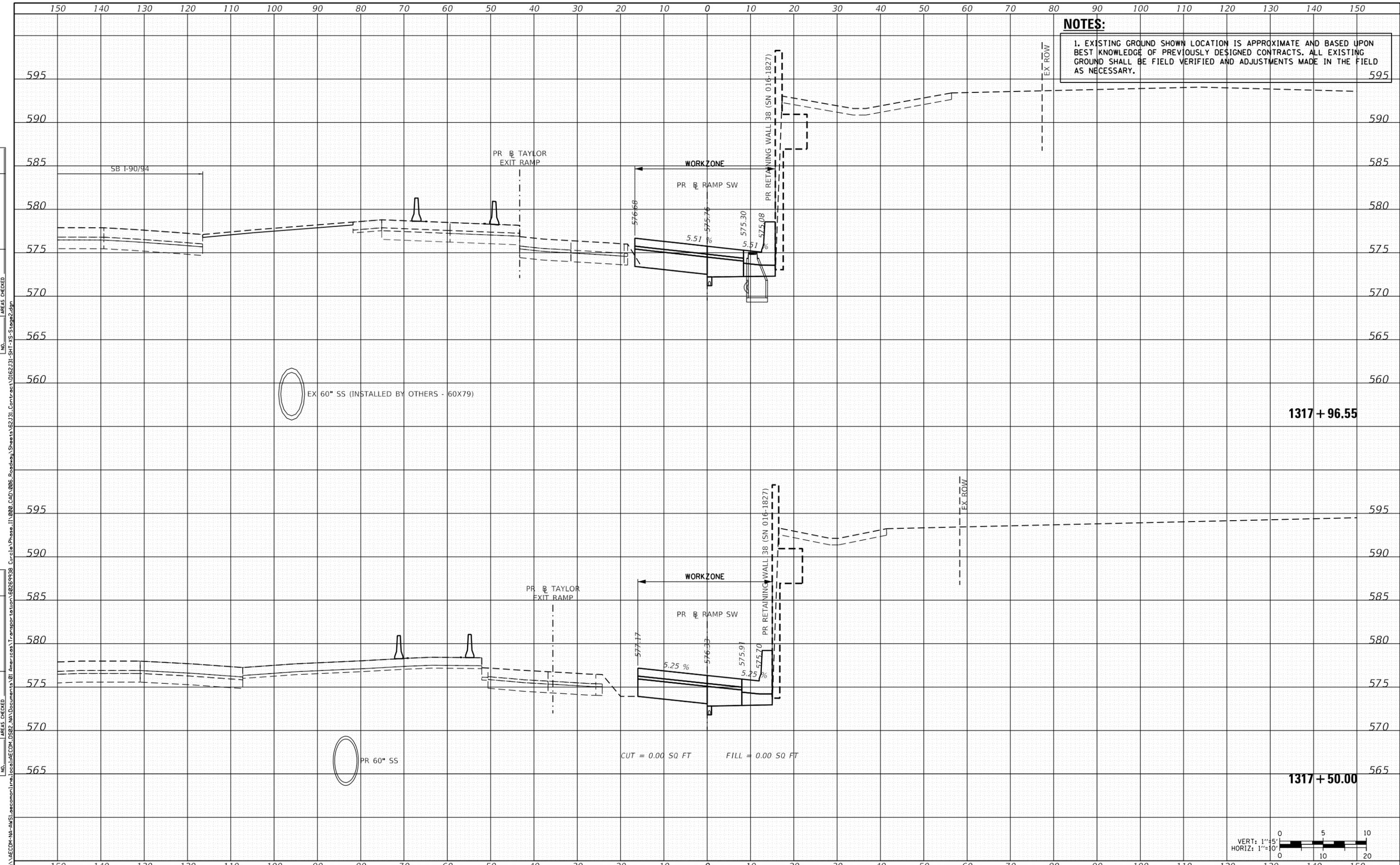
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	362
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				



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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



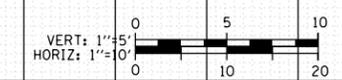
D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 7 OF 11 SHEETS STA. 1317+50.00 TO STA. 1317+96.55

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	363
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

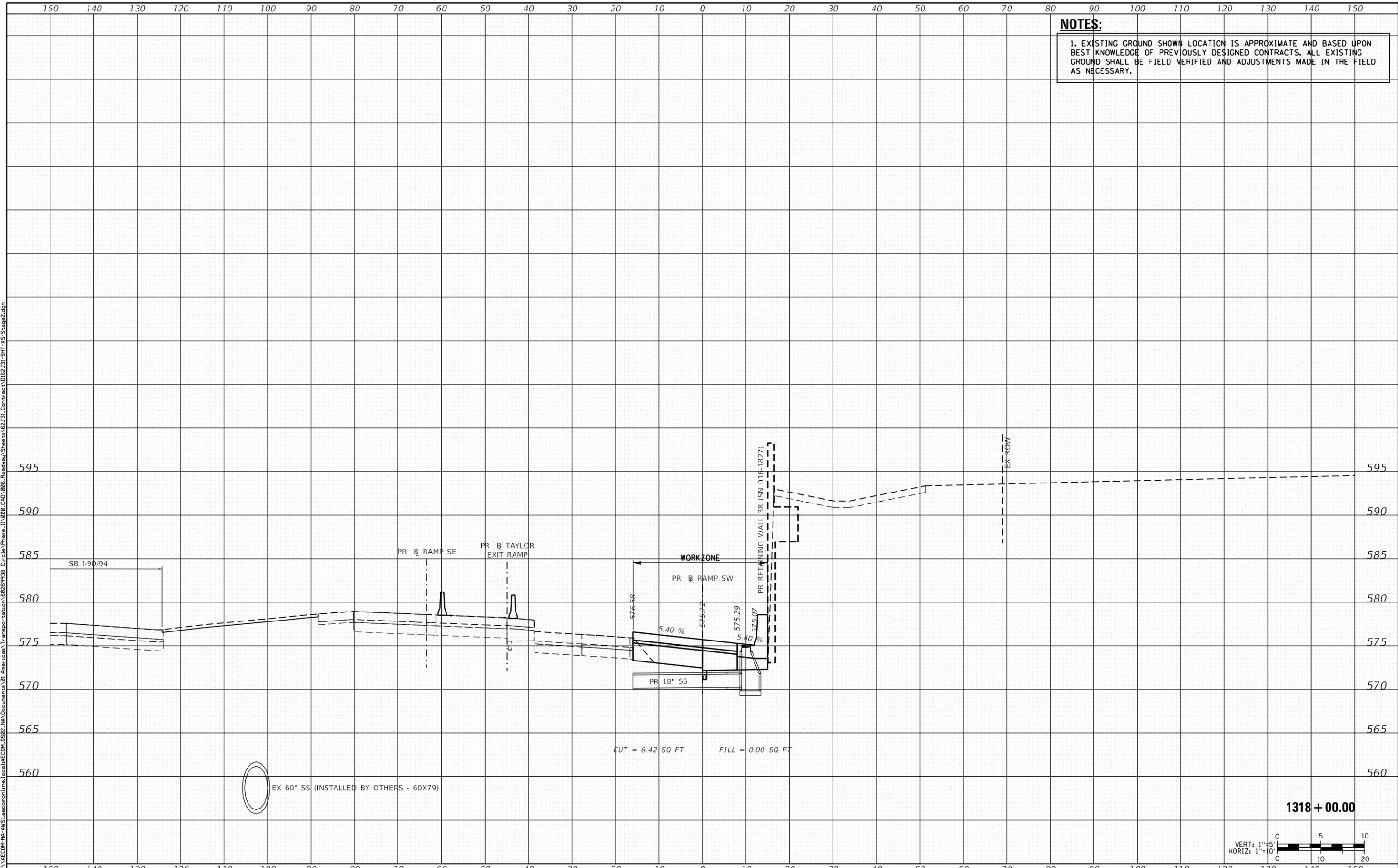


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NOTES:
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

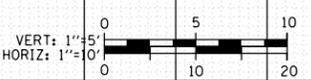
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 8 OF 11 SHEETS STA. 1318+00.00 TO STA. 1318+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	364
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT



1318 + 00.00

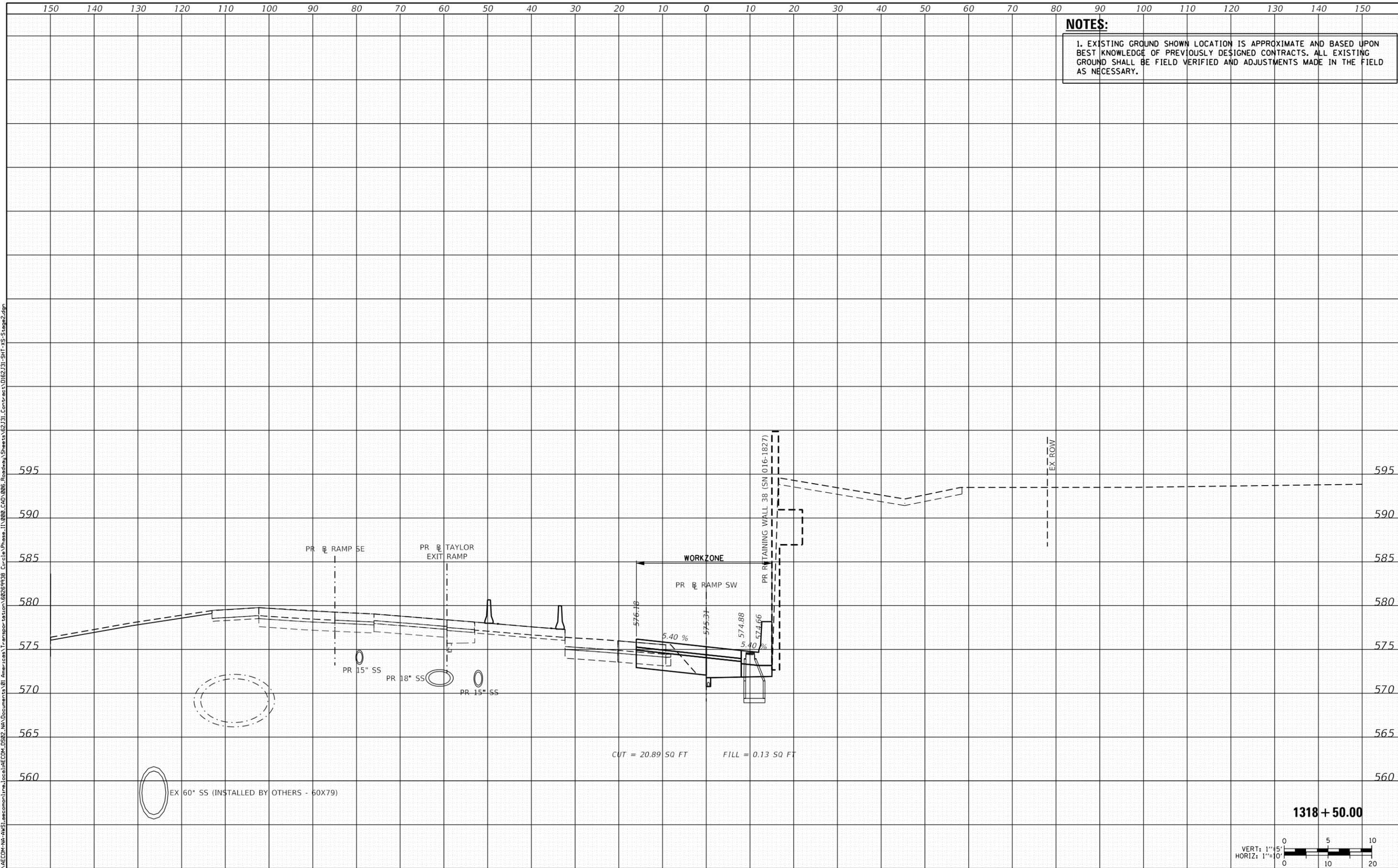
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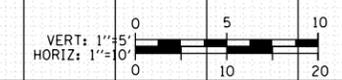
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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1318 + 50.00



D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 9 OF 11 SHEETS STA. 1318+50.00 TO STA. 1318+50.00

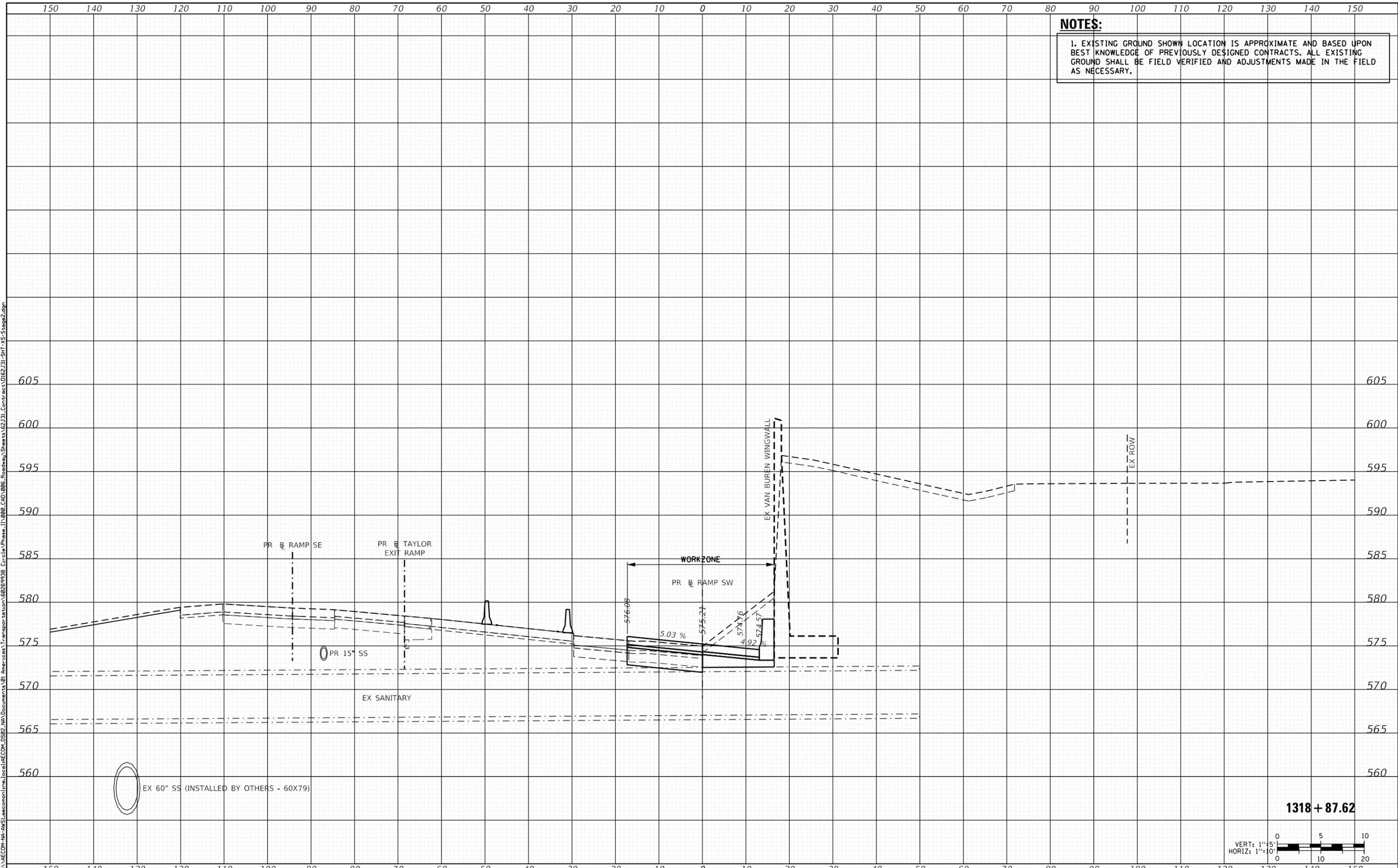
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	365
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

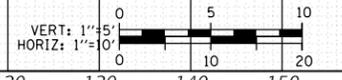
NOTES:
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



1318 + 87.62



D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 10 OF 11 SHEETS STA. 1318+87.62 TO STA. 1318+87.62

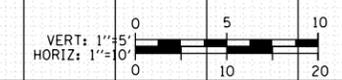
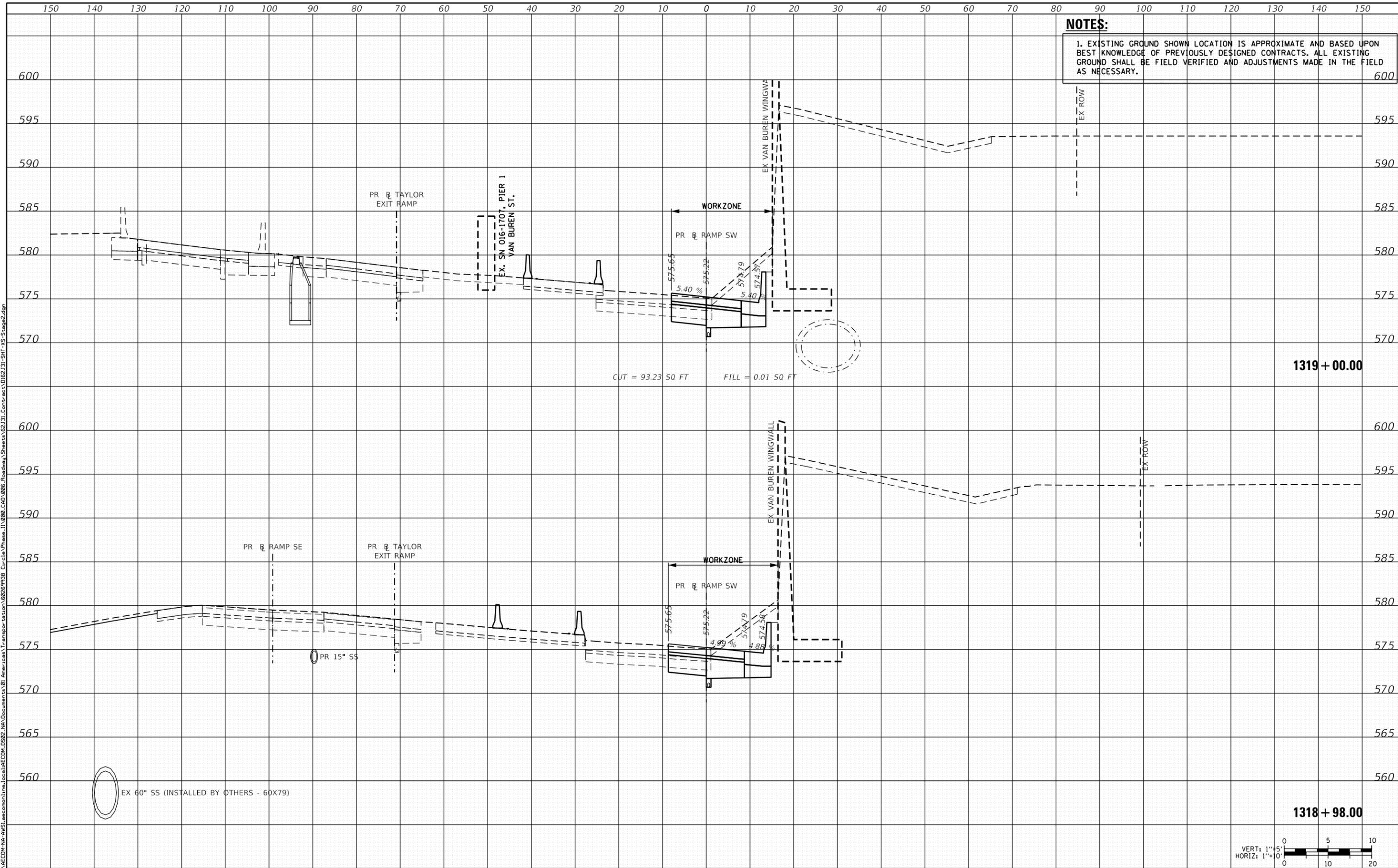
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	366
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

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DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

NOTES:
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D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET 11 OF 11 SHEETS STA. 1318+98.00 TO STA. 1319+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	367
CONTRACT NO. 62J31				

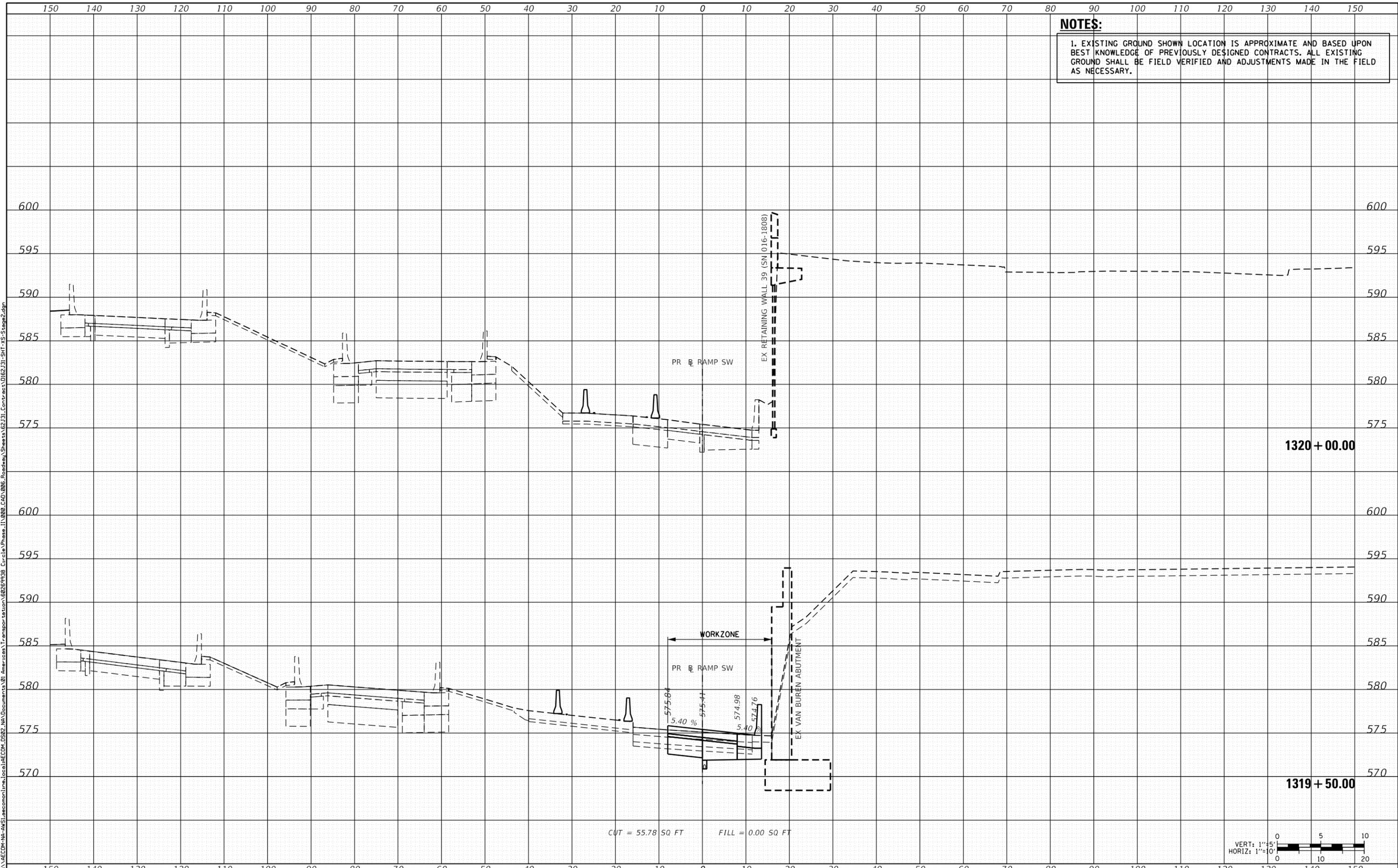
ILLINOIS FED. AID PROJECT

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NOTES:
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET OF 11 SHEETS STA. 1319+50.00 TO STA. 1320+00.00

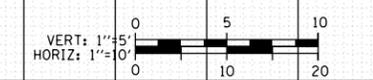
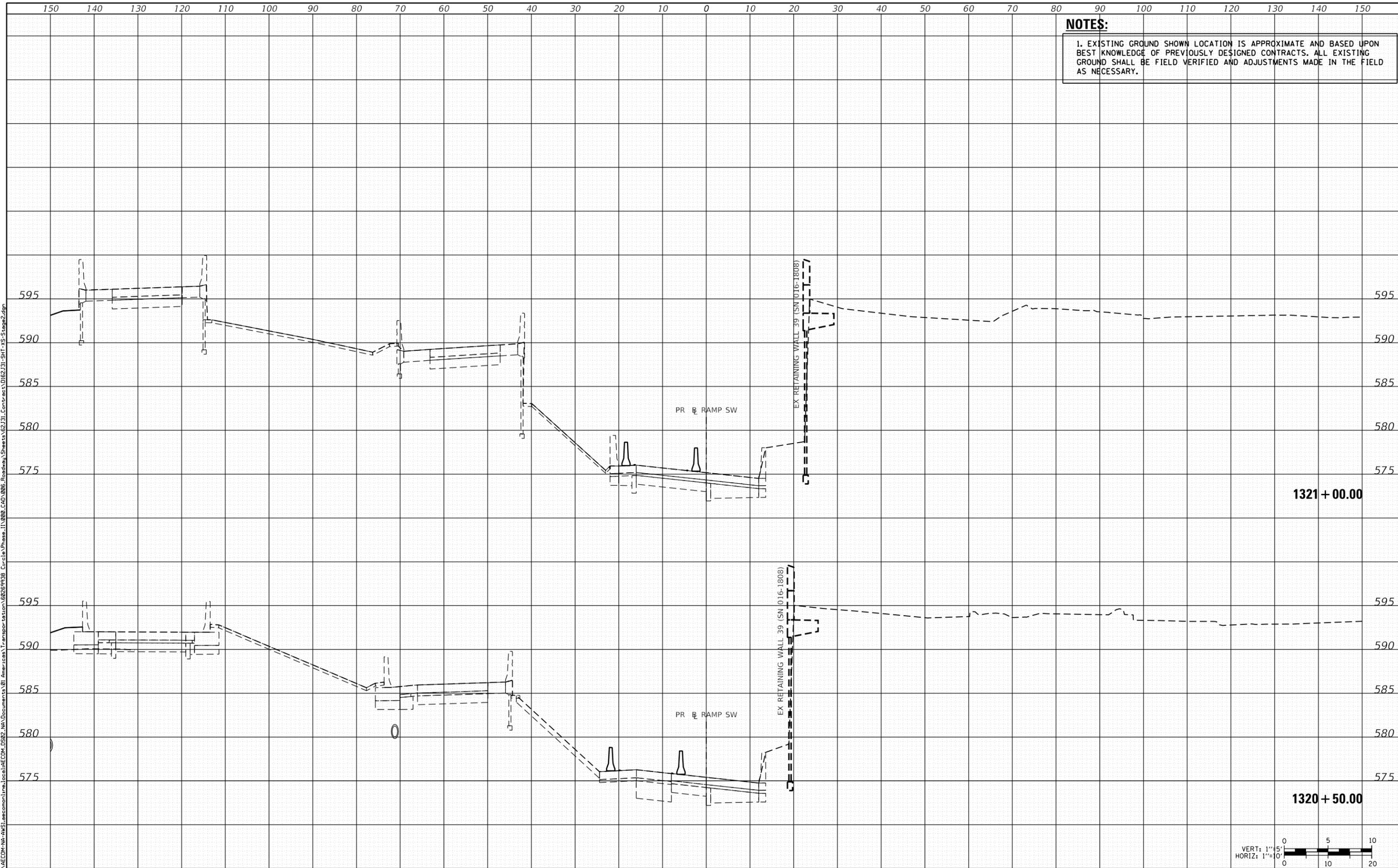
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	368
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

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NOTES:
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DATE	
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FINAL SURVEY	
SURVEY	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEY	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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D162J31-SHT-XS-Stage2.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 2

SCALE: 1:5V, 1:10H SHEET OF 11 SHEETS STA. 1320+50.00 TO STA. 1321+00.00

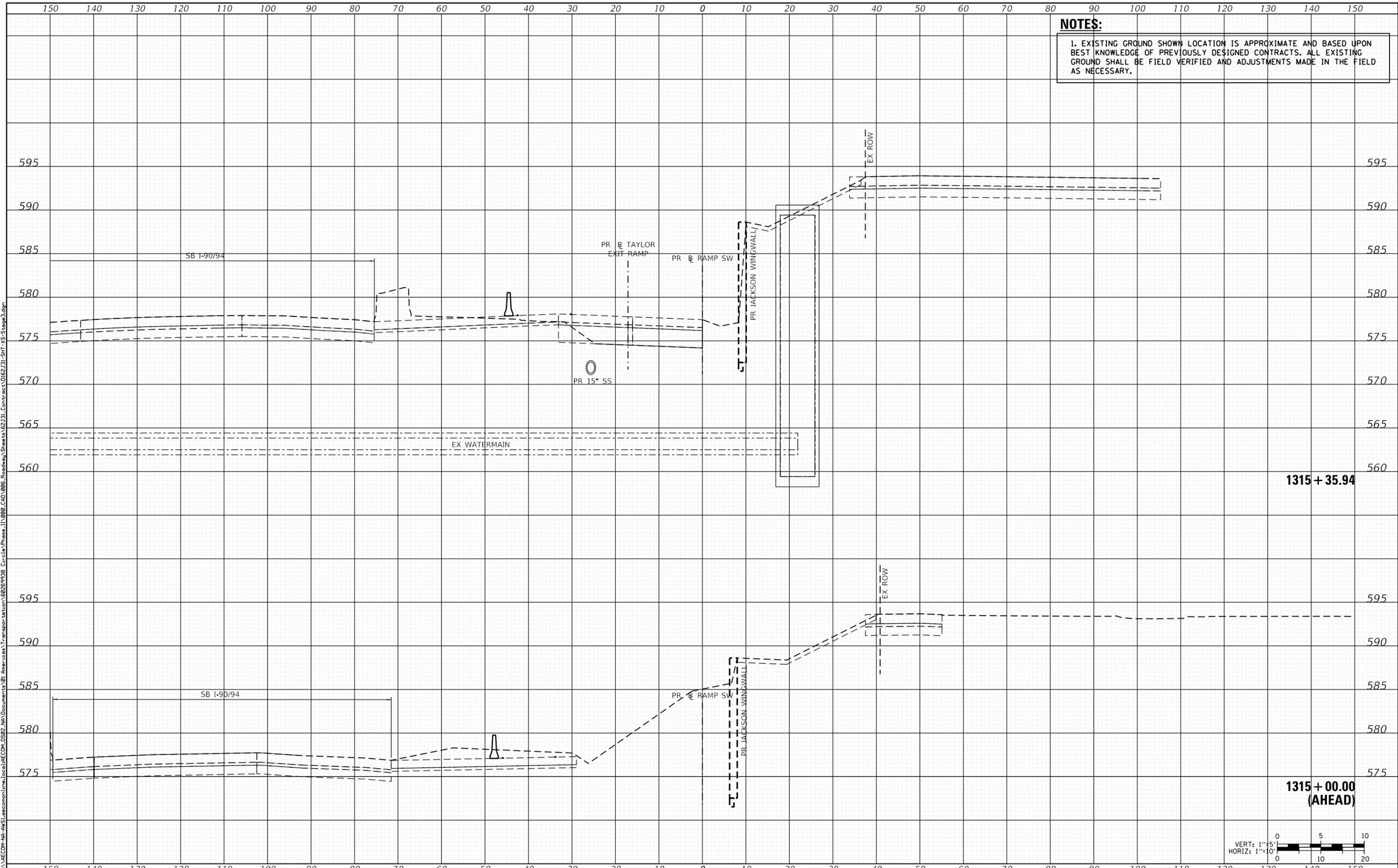
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	369
				CONTRACT NO. 62J31
ILLINOIS FED. AID PROJECT				

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NOTES:
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DATE	
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FINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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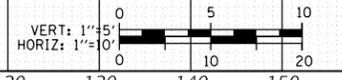
D162J31-SHT-XS-Stage3.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 1 OF 11 SHEETS STA. 1315+00.00 TO STA. 1315+35.94

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	370
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

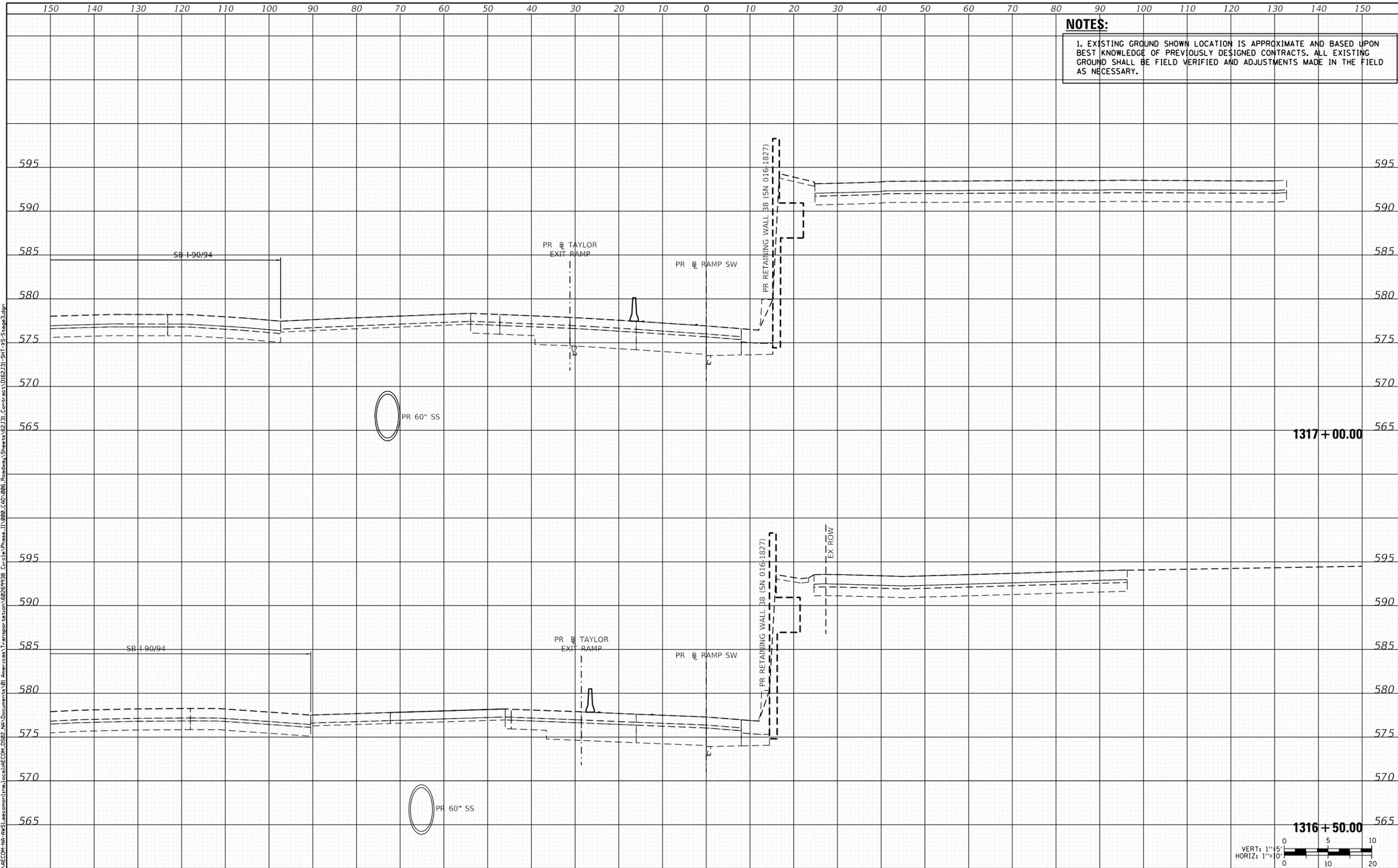


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NOTES:
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DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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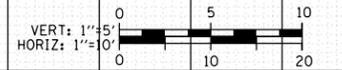
D162J31-SHT-XS-Stage3.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 3 OF 11 SHEETS STA. 1316+50.00 TO STA. 1317+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	372
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

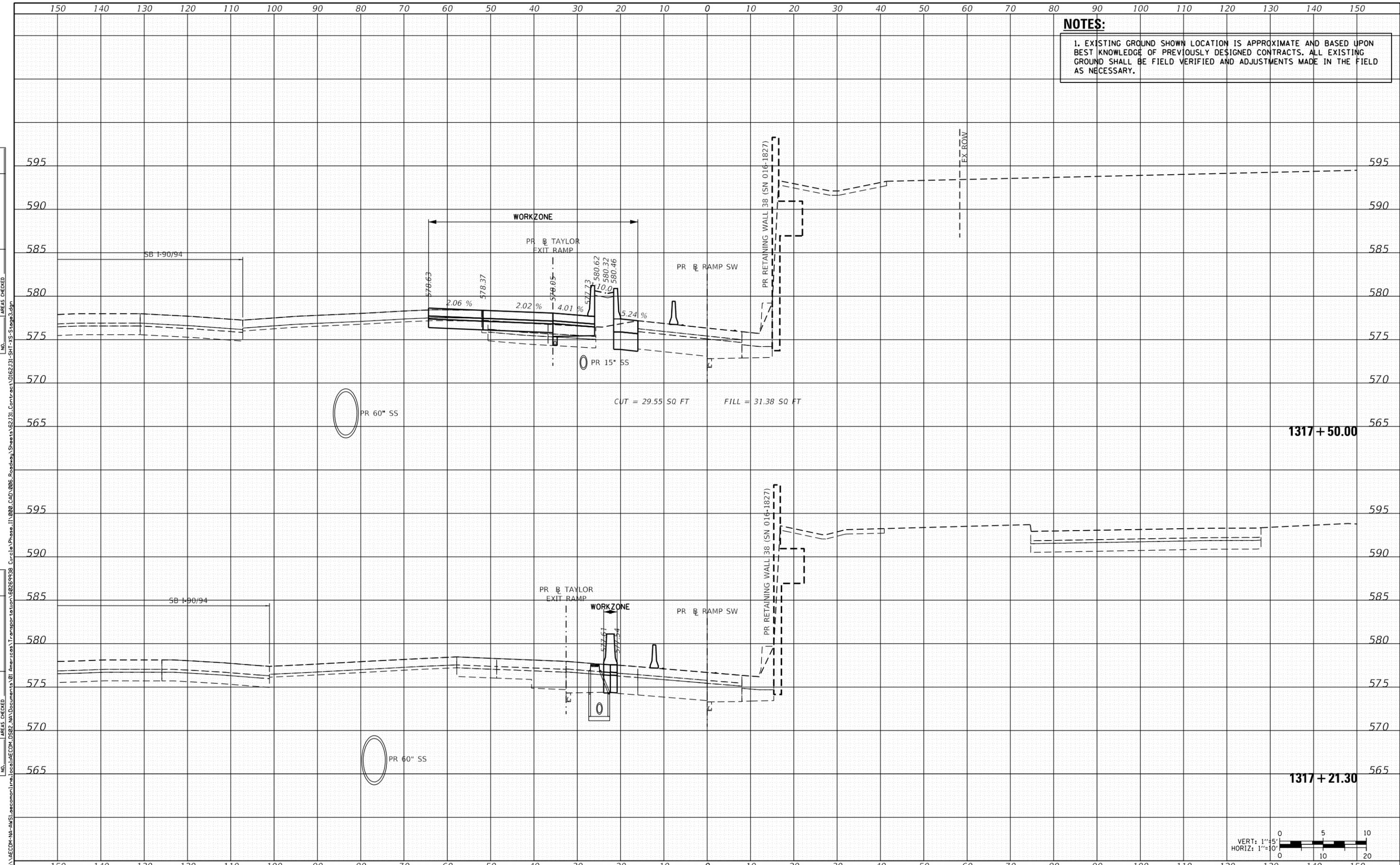


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NOTES:
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DATE	
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FINAL SURVEY	
SURVEY PLOTTED	
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DATE	
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ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	



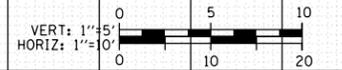
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USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 4 OF 11 SHEETS STA. 1317+21.30 TO STA. 1317+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	373
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

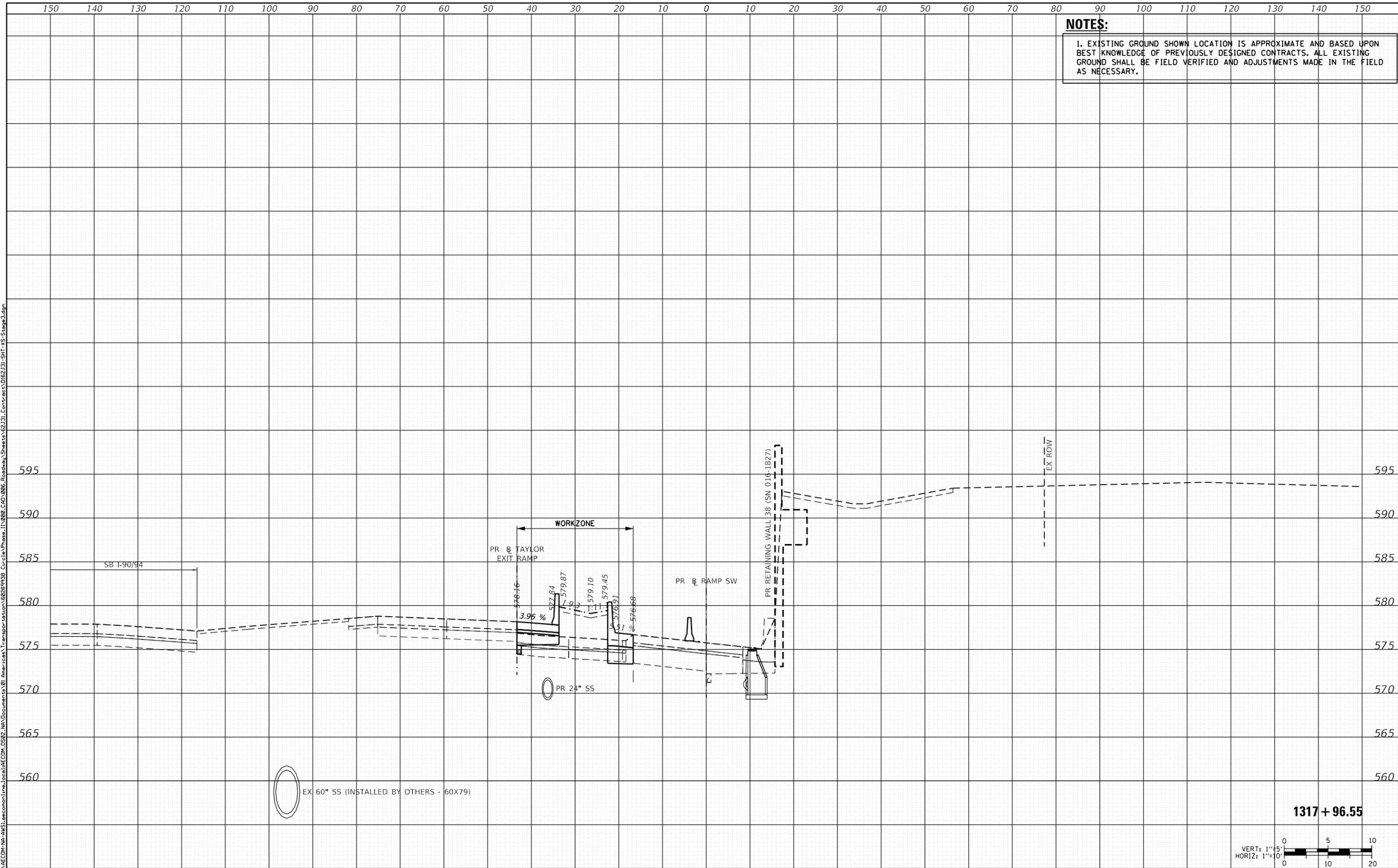


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NOTES:
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DATE	
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FINAL SURVEY	
SURVEYED	
NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
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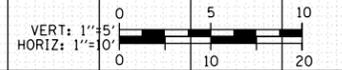
D162J31-SHT-XS-Stage3.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 5 OF 11 SHEETS STA. 1317+96.55 TO STA. 1317+96.55

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	374
CONTRACT NO. 62J31				



1317 + 96.55

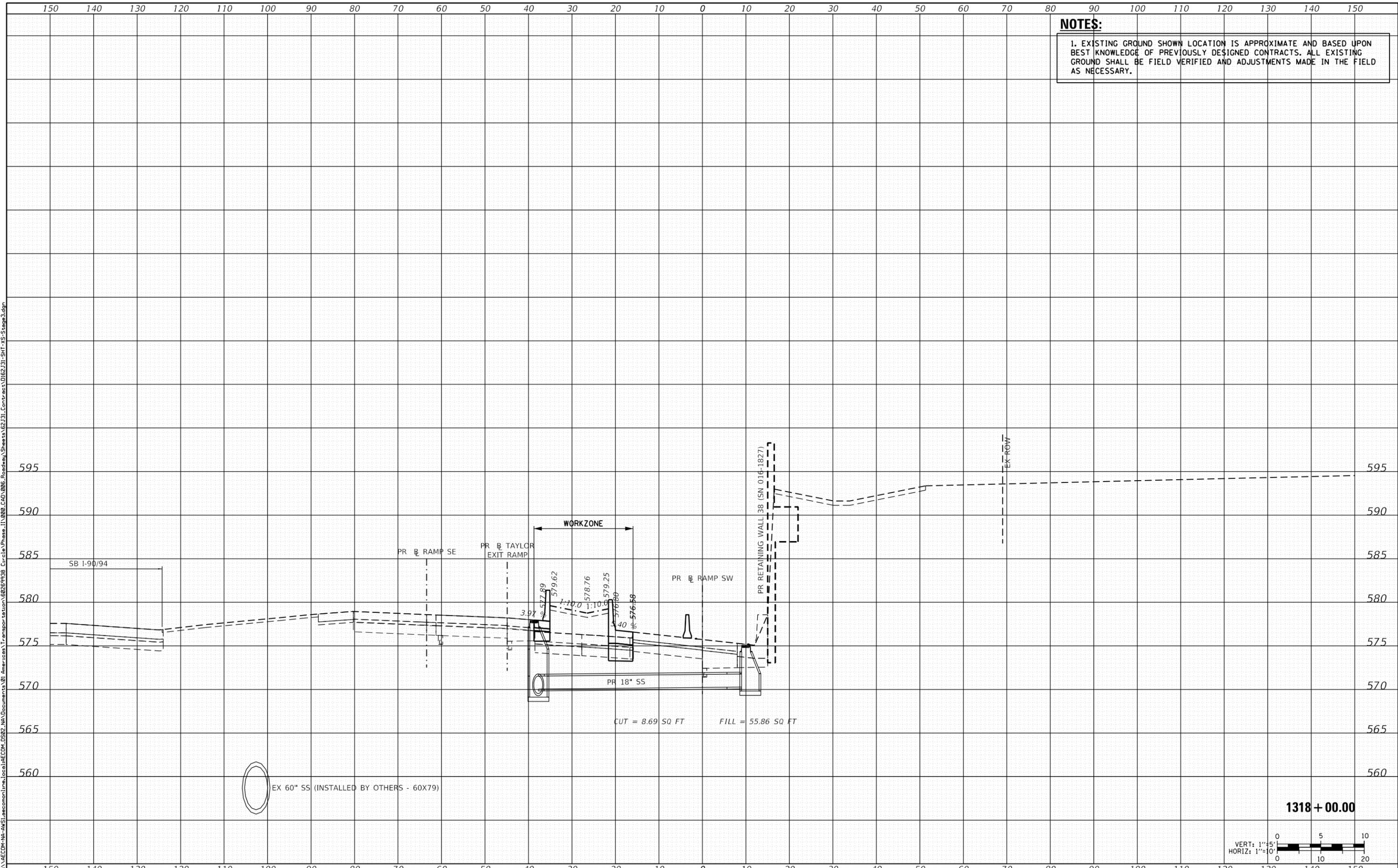
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ILLINOIS FED. AID PROJECT

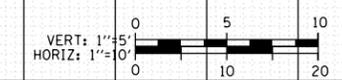
NOTES:
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED
	AREAS CHECKED



1318 + 00.00



D162J31-SHT-XS-Stage3.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 6 OF 11 SHEETS STA. 1318+00.00 TO STA. 1318+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	375
CONTRACT NO. 62J31				

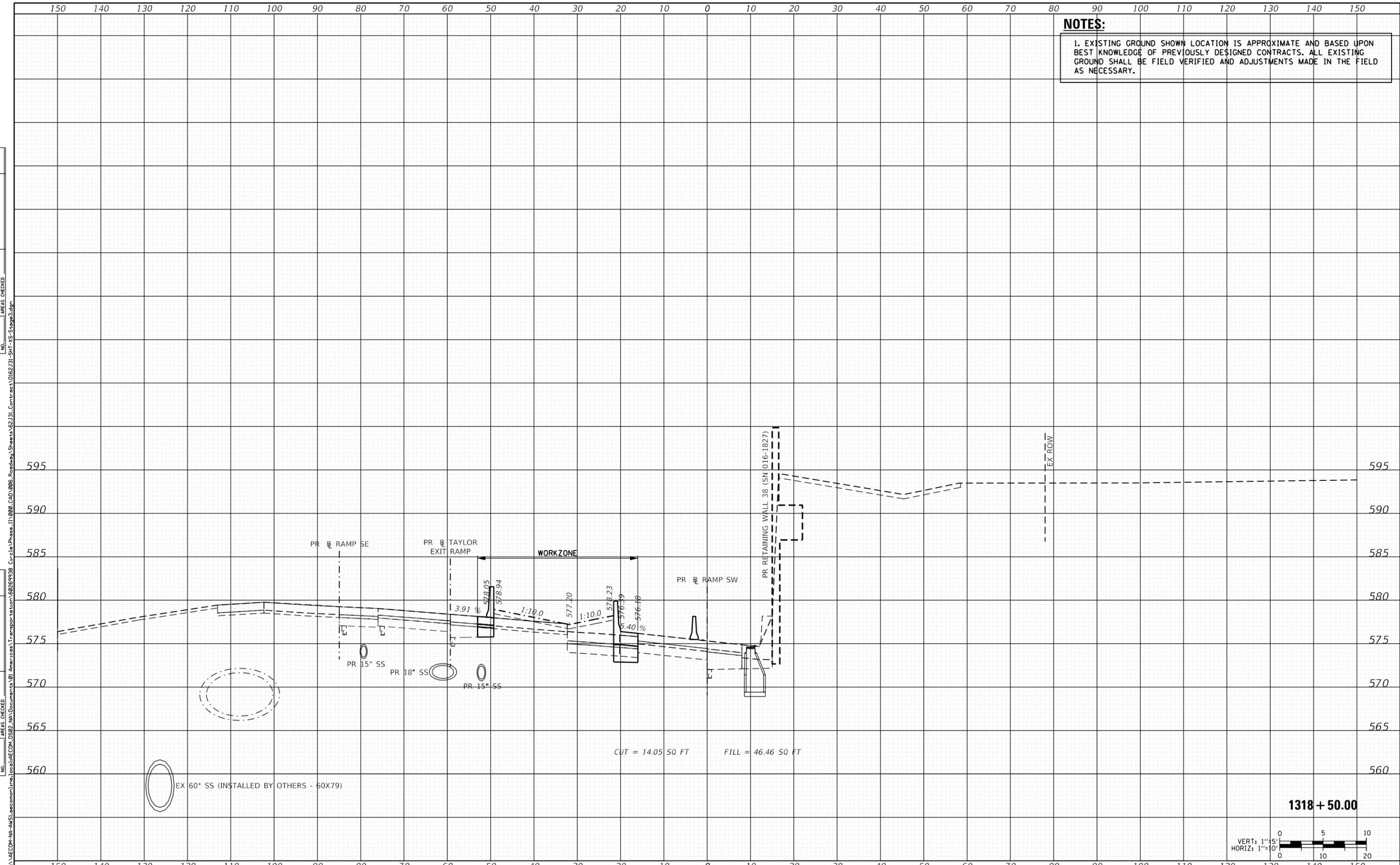
ILLINOIS FED. AID PROJECT

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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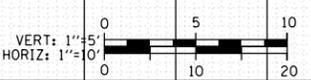
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USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 7 OF 11 SHEETS STA. 1318+50.00 TO STA. 1318+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	376
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

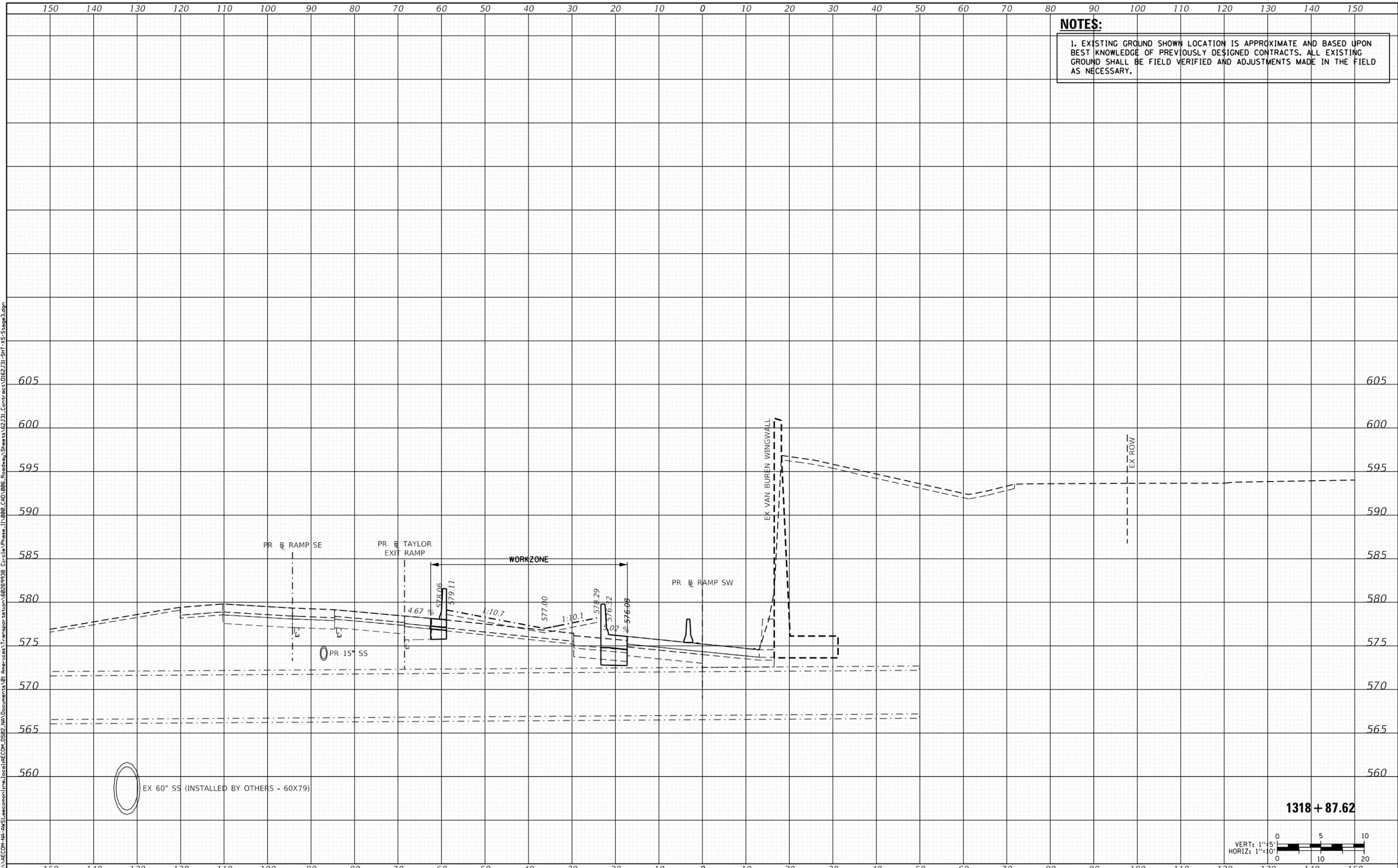


1318 + 50.00

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



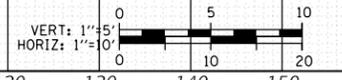
EX 60" SS (INSTALLED BY OTHERS - 60X79)

WORKZONE

EX VAN BUREN WINGWALL

EX ROW

1318 + 87.62



D162J31-SHT-XS-Stage3.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 8 OF 11 SHEETS STA. 1318+87.62 TO STA. 1318+87.62

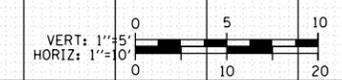
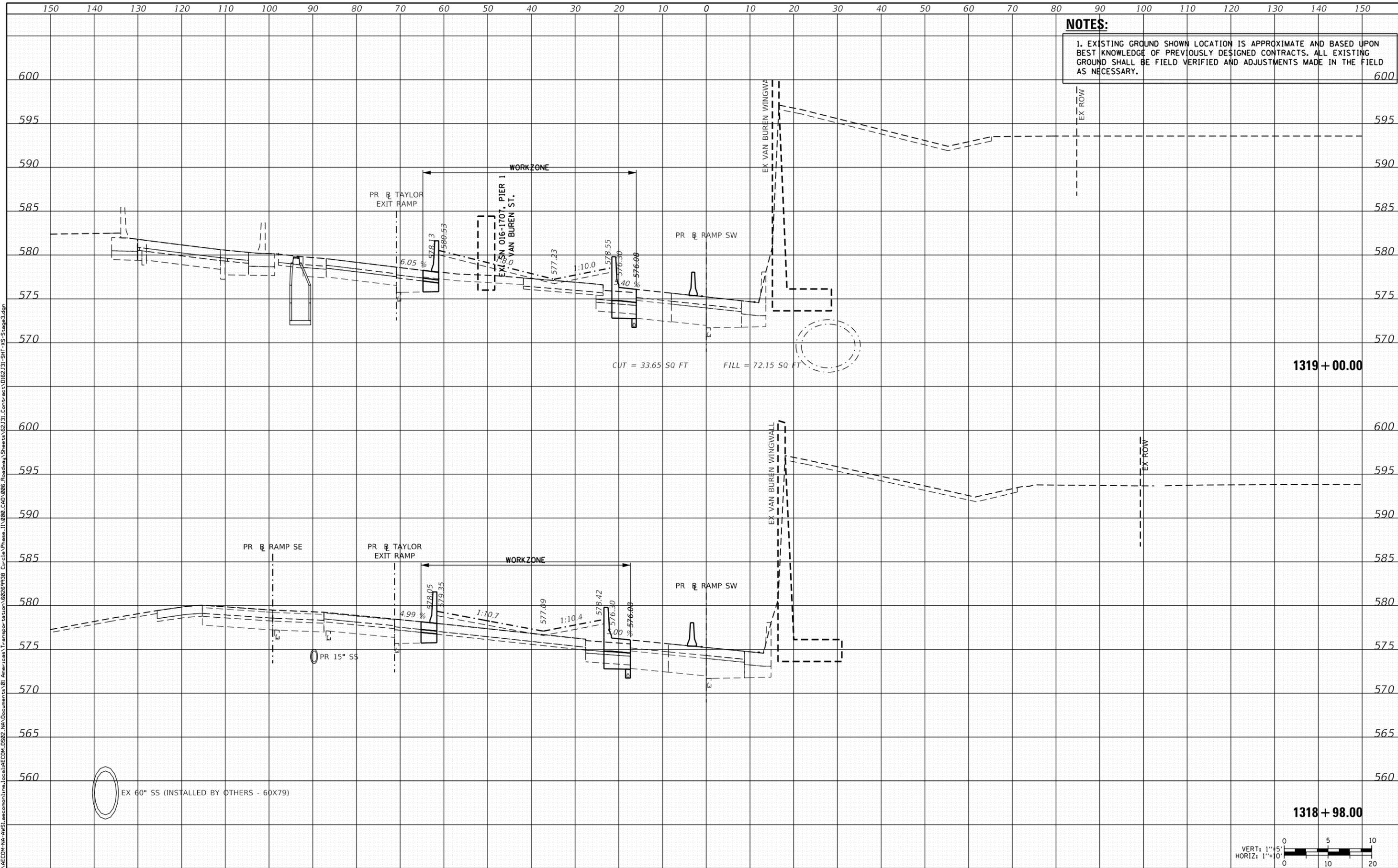
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	377
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
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D162J31-SHT-XS-Stage3.dgn
 USER NAME = andy.becker
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/15/2019

DESIGNED - ATB
 DRAWN - ATB
 CHECKED - MJE
 DATE - 8/16/2019

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 9 OF 11 SHEETS STA. 1318+98.00 TO STA. 1319+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	378
CONTRACT NO. 62J31				

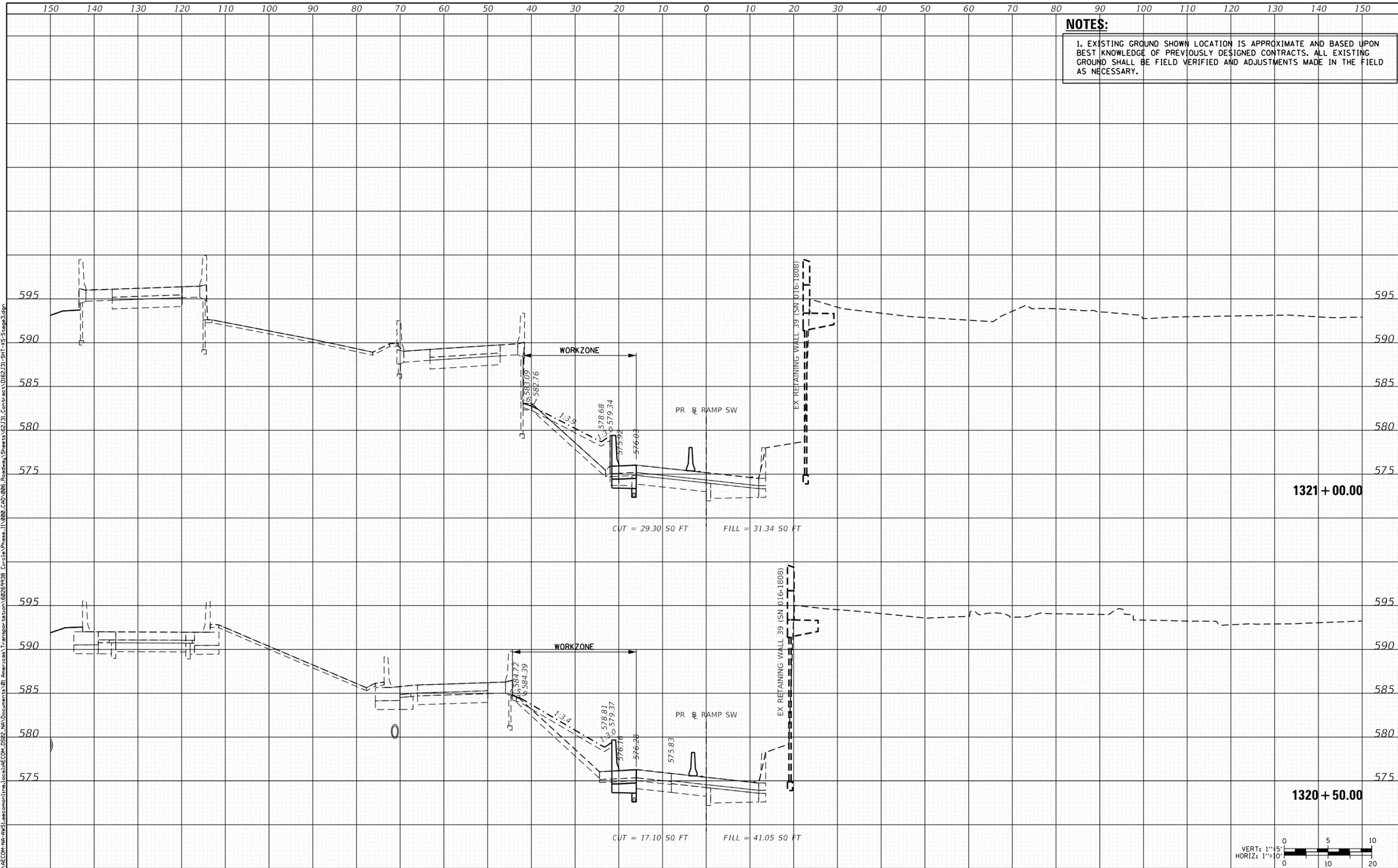
ILLINOIS FED. AID PROJECT

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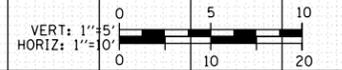
D162J31-SHT-XS-Stage3.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET 11 OF 11 SHEETS STA. 1320+50.00 TO STA. 1321+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	380
CONTRACT NO. 62J31				



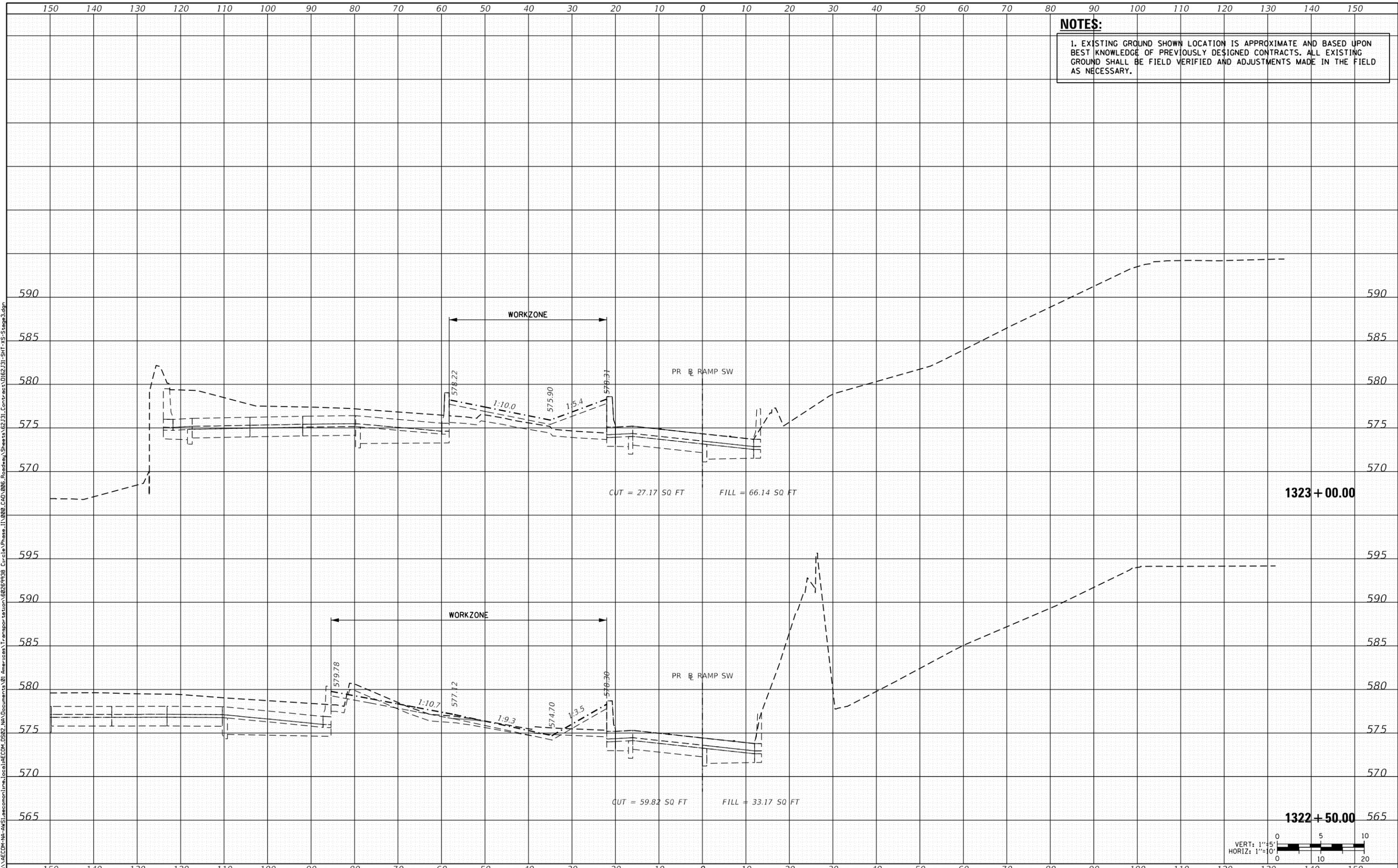
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ILLINOIS FED. AID PROJECT

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ORIGINAL SURVEY	
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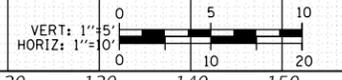
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PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET OF 11 SHEETS STA. 1322+50.00 TO STA. 1323+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	382
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

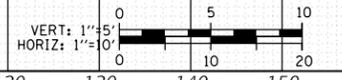
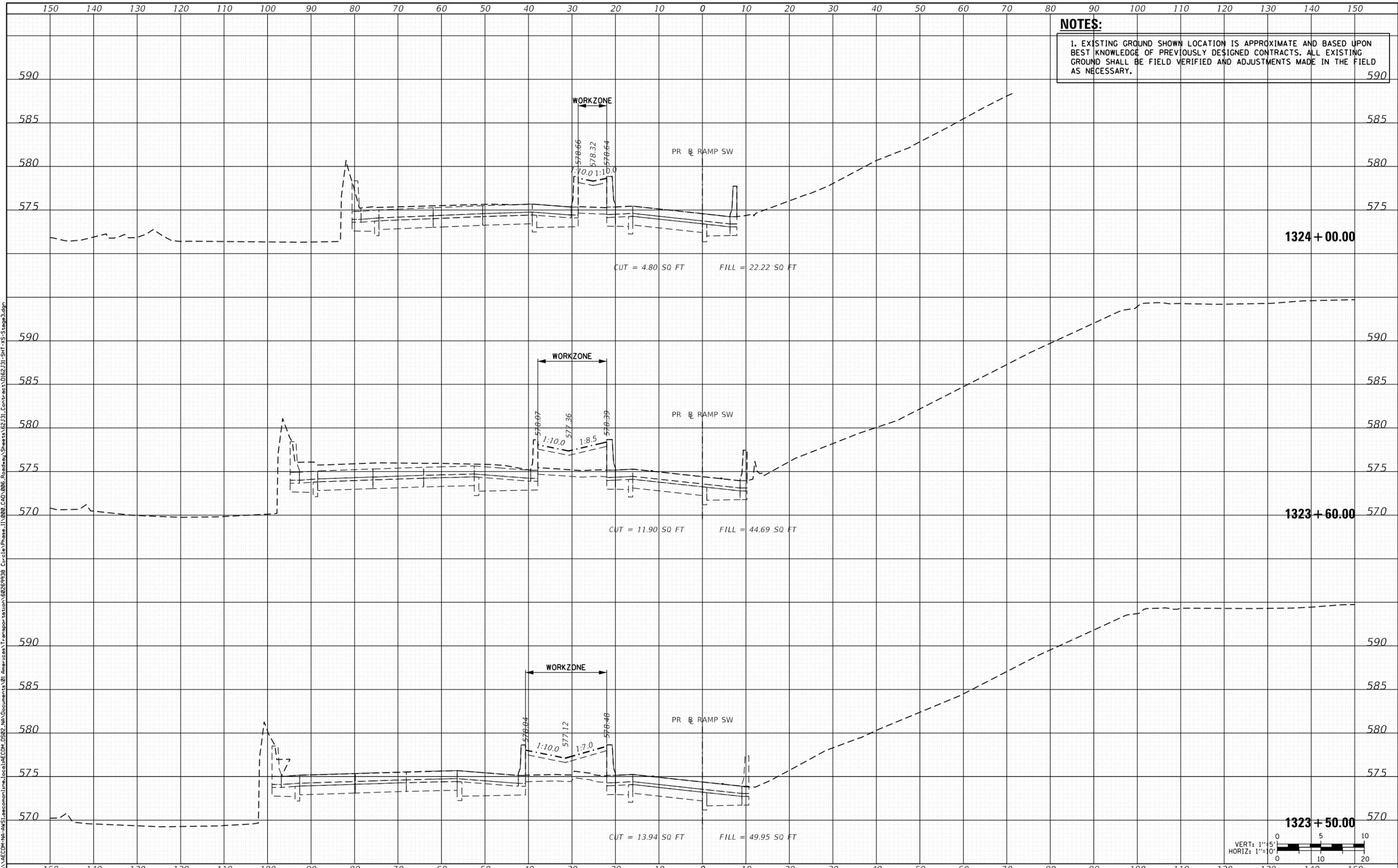


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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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D162J31-SHT-XS-Stage3.dgn
 USER NAME = andy.becker
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/15/2019

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 DRAWN - ATB
 CHECKED - MJE
 DATE - 8/16/2019

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - STAGE 3

SCALE: 1:5V, 1:10H SHEET OF 11 SHEETS STA. 1323+50.00 TO STA. 1324+00.00

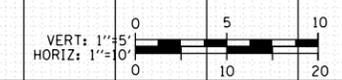
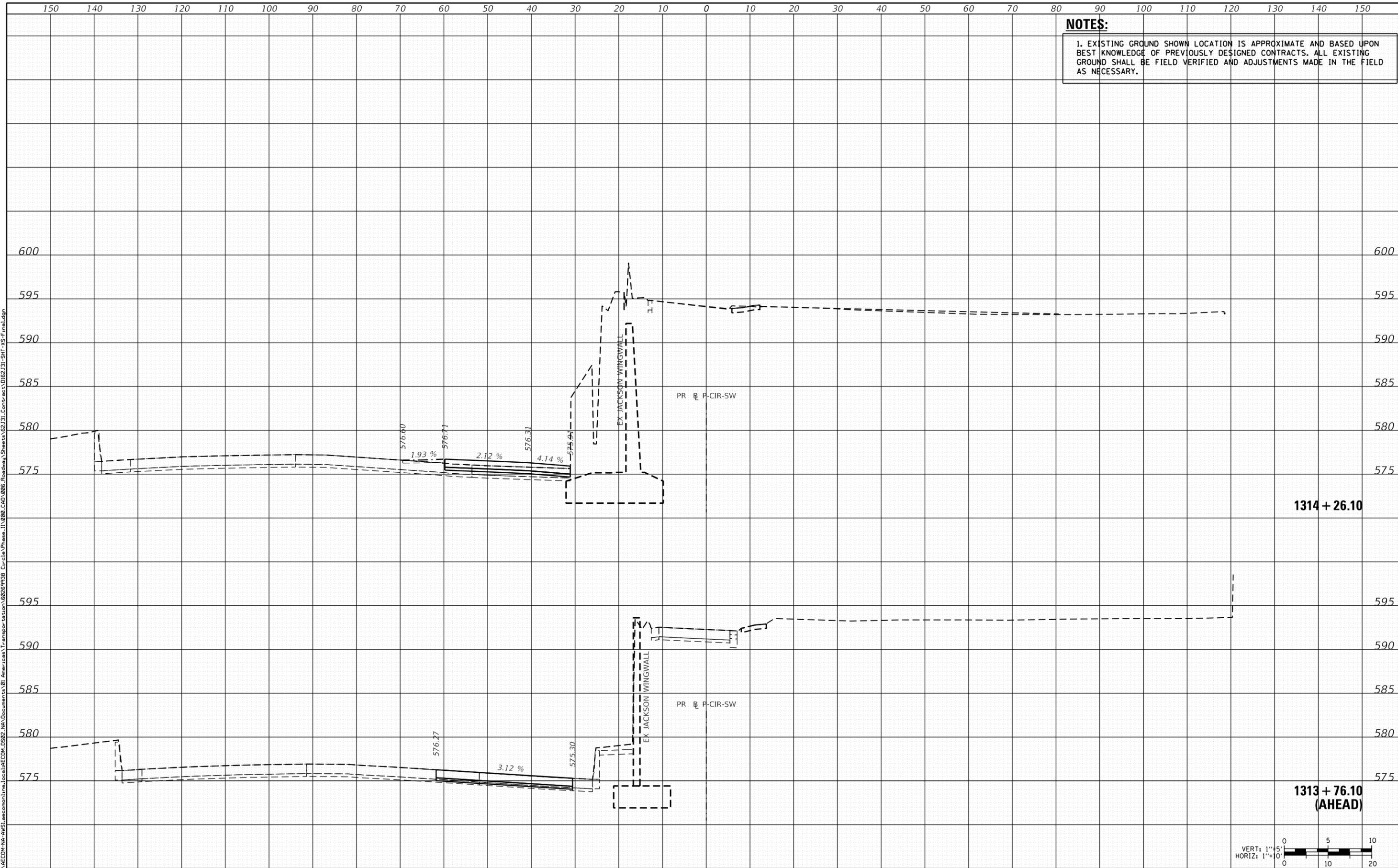
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	383
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

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DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET 1 OF 10 SHEETS STA. 1313+76.10 TO STA. 1314+26.10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	384
CONTRACT NO. 62J31				

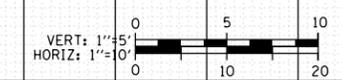
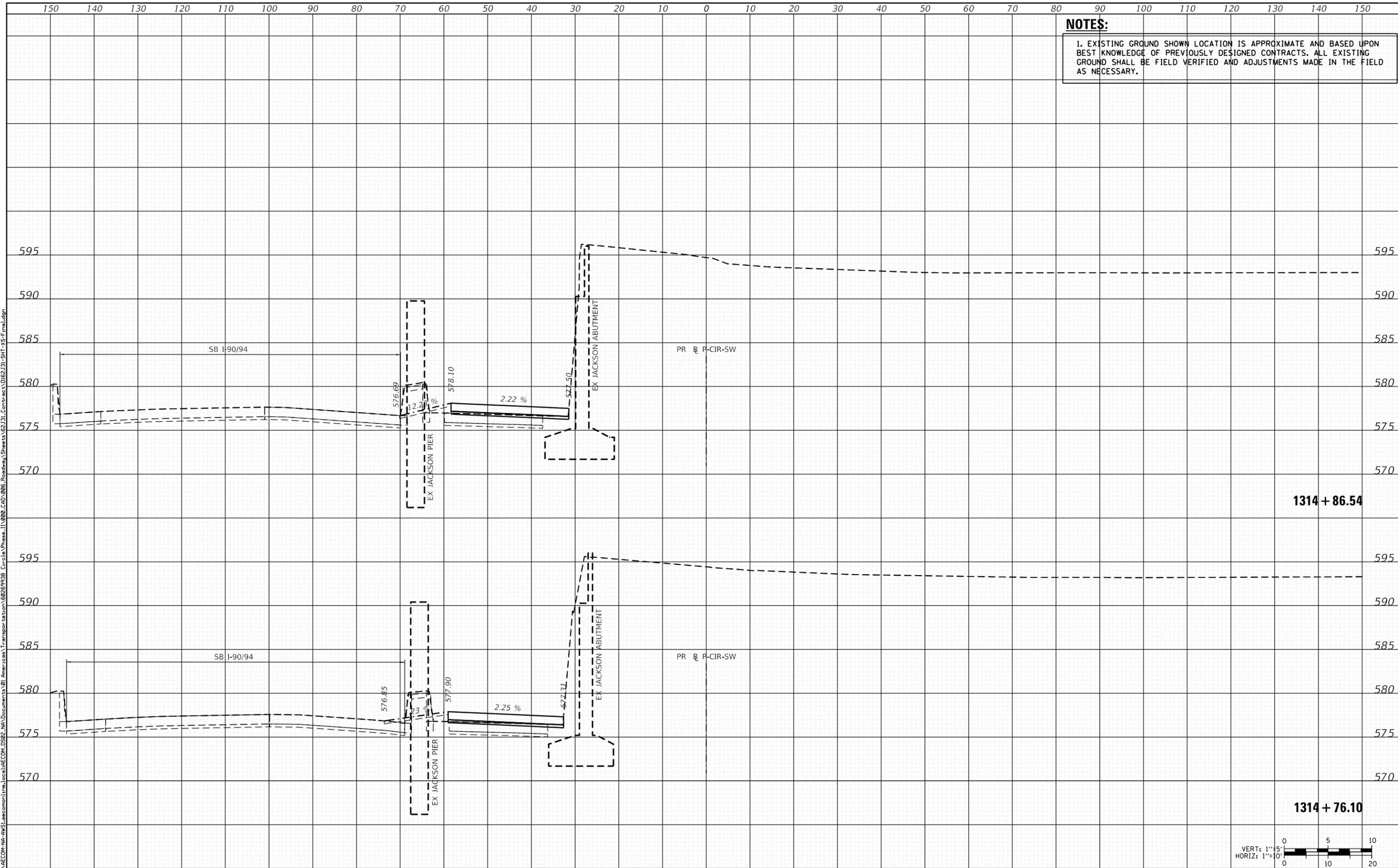
ILLINOIS FED. AID PROJECT

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NOTE BOOK	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	



D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET 2 OF 10 SHEETS STA. 1314+76.10 TO STA. 1314+86.54

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	385
CONTRACT NO. 62J31				

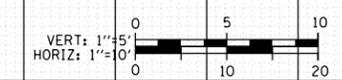
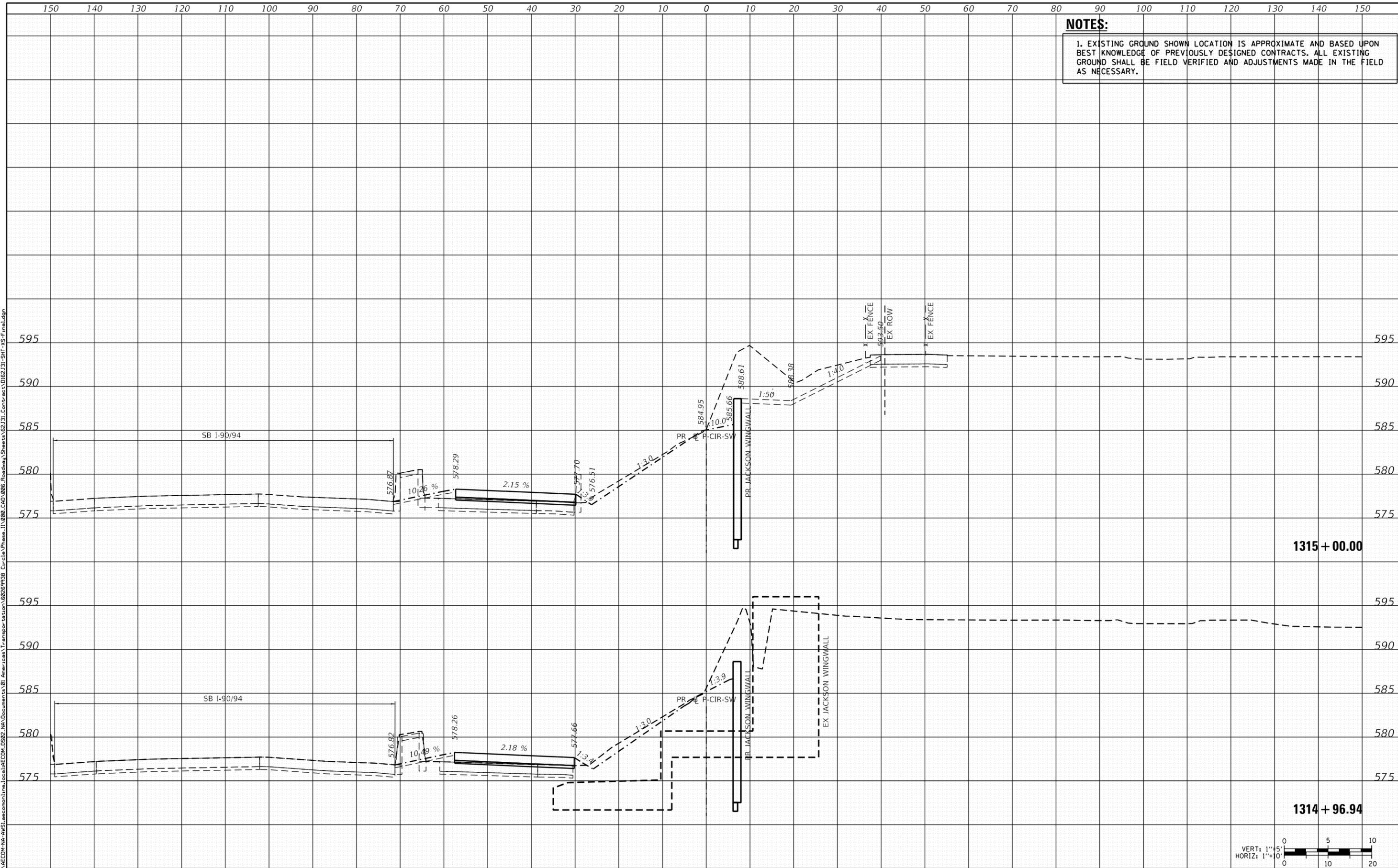
ILLINOIS FED. AID PROJECT

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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



D:\62J31-SHT-XS-Final.dgn
 USER NAME = andy.becker
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/15/2019

DESIGNED - ATB
 DRAWN - ATB
 CHECKED - MJE
 DATE - 8/16/2019

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET 3 OF 10 SHEETS STA. 1314+96.94 TO STA. 1315+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	386

CONTRACT NO. 62J31

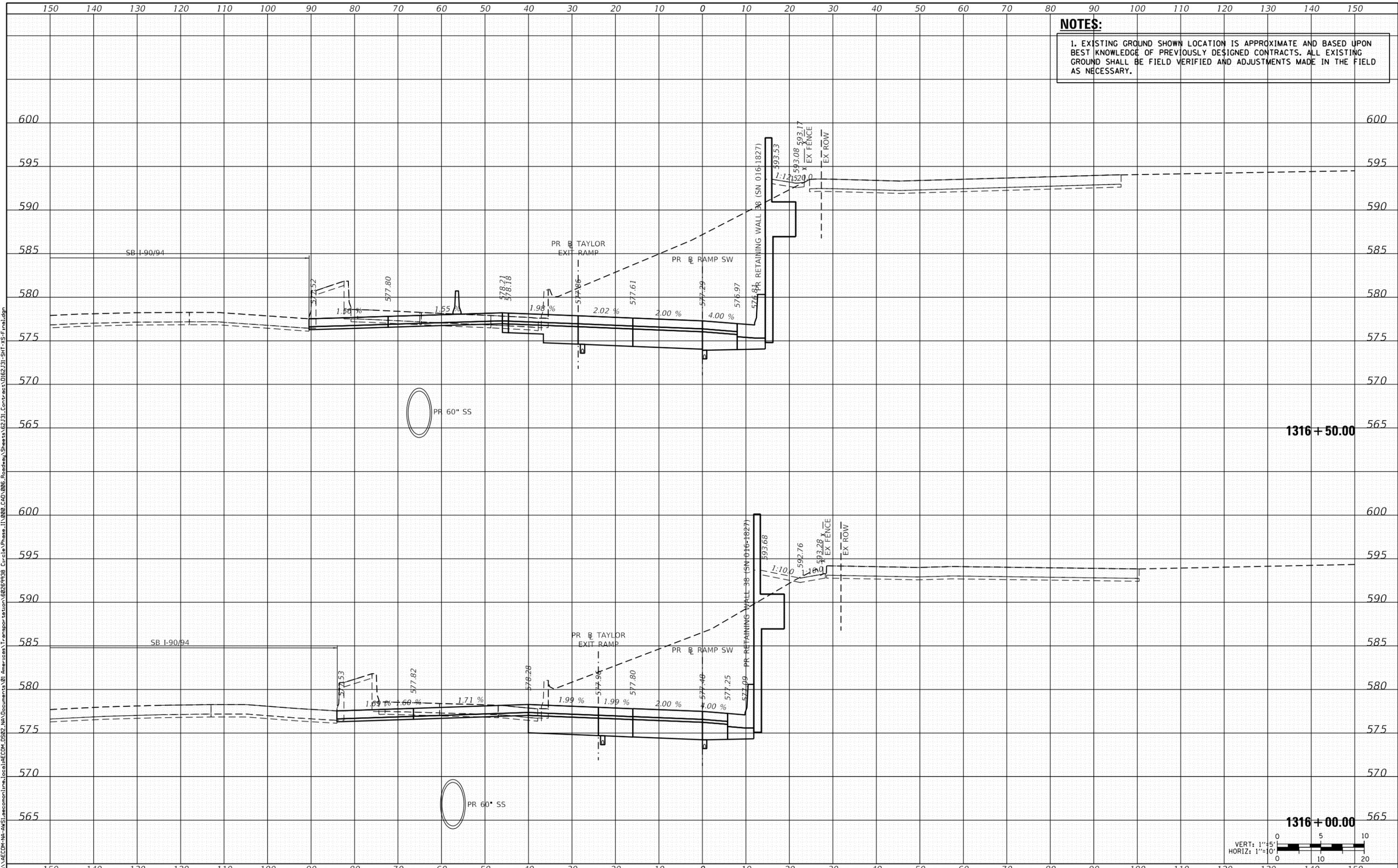
ILLINOIS FED. AID PROJECT

FILE PATH = p:\AECOM\NS-A\SI\awccommon\local\AECOM\US02\NA\Documents\01\America's Transportation\80289938_Circle Phase II\000_CAD\006_Roadway_Sheets\62J31_Contract\0162J31-SHT-XS-Final.dgn

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DATE	
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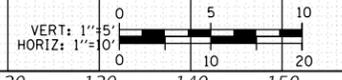


D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
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PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET 5 OF 10 SHEETS STA. 1316+00.00 TO STA. 1316+50.00

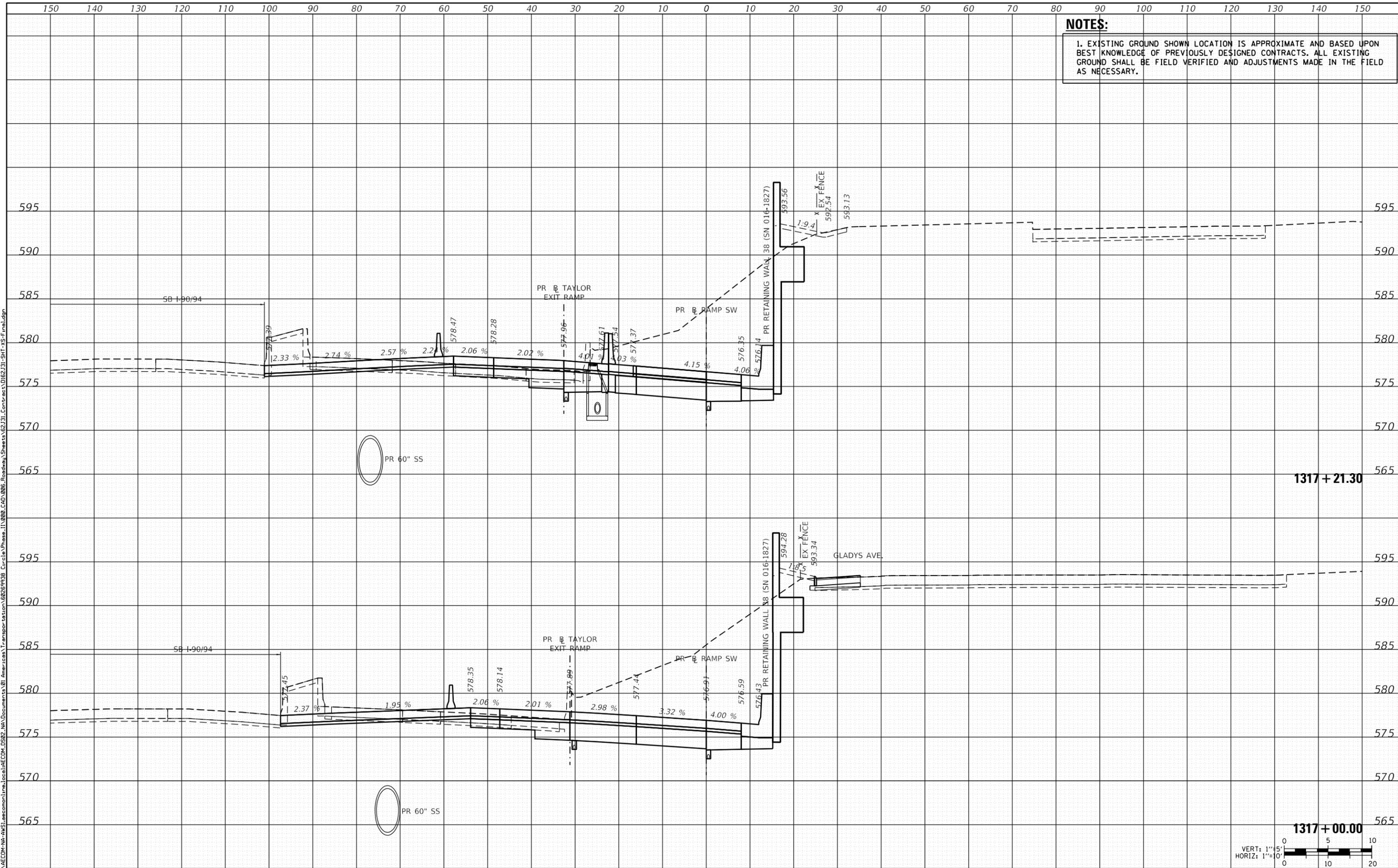


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	388
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. EXISTING GROUND SHOWN LOCATION IS APPROXIMATE AND BASED UPON BEST KNOWLEDGE OF PREVIOUSLY DESIGNED CONTRACTS. ALL EXISTING GROUND SHALL BE FIELD VERIFIED AND ADJUSTMENTS MADE IN THE FIELD AS NECESSARY.

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	

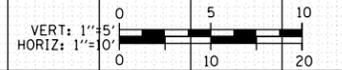
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BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - FINAL
 SCALE: 1:5V, 1:10H SHEET 6 OF 10 SHEETS STA. 1317+00.00 TO STA. 1317+21.30

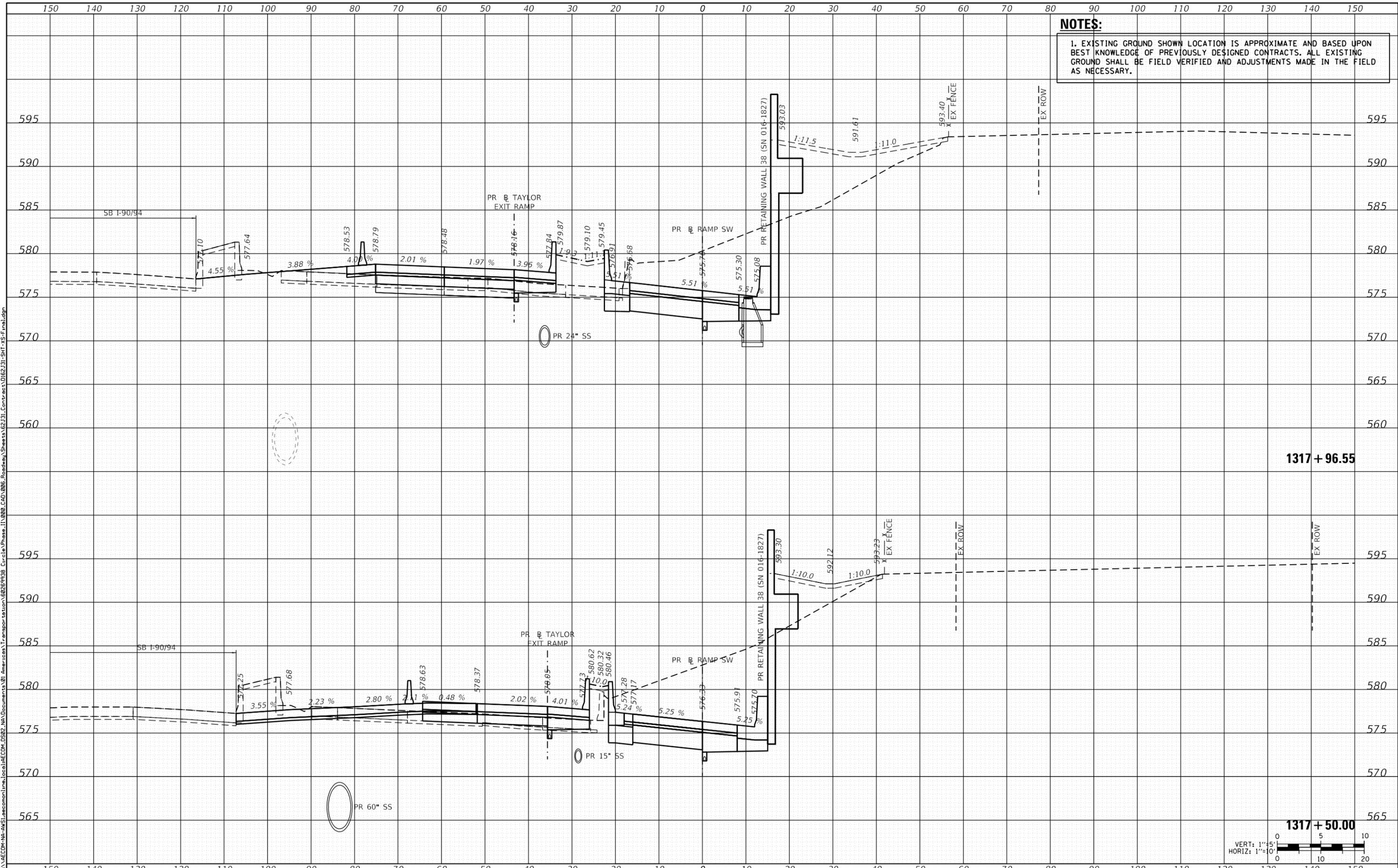


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	389
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

NOTES:
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DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	



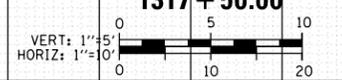
D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET 7 OF 10 SHEETS STA. 1317+50.00 TO STA. 1317+96.55

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	390
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

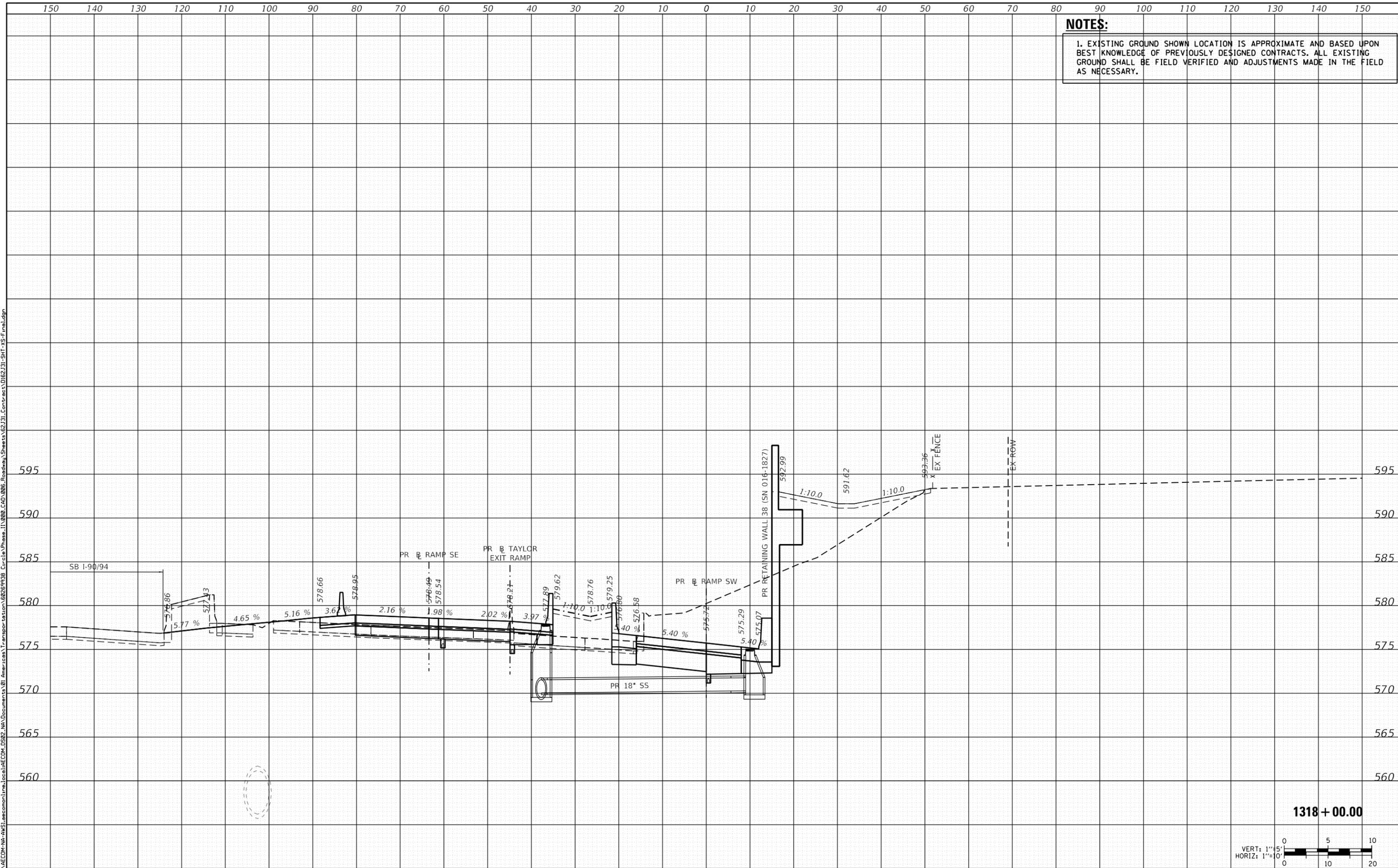


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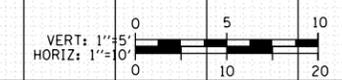
NOTES:
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DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



1318 + 00.00



D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET 8 OF 10 SHEETS STA. 1318+00.00 TO STA. 1318+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	391
CONTRACT NO. 62J31				

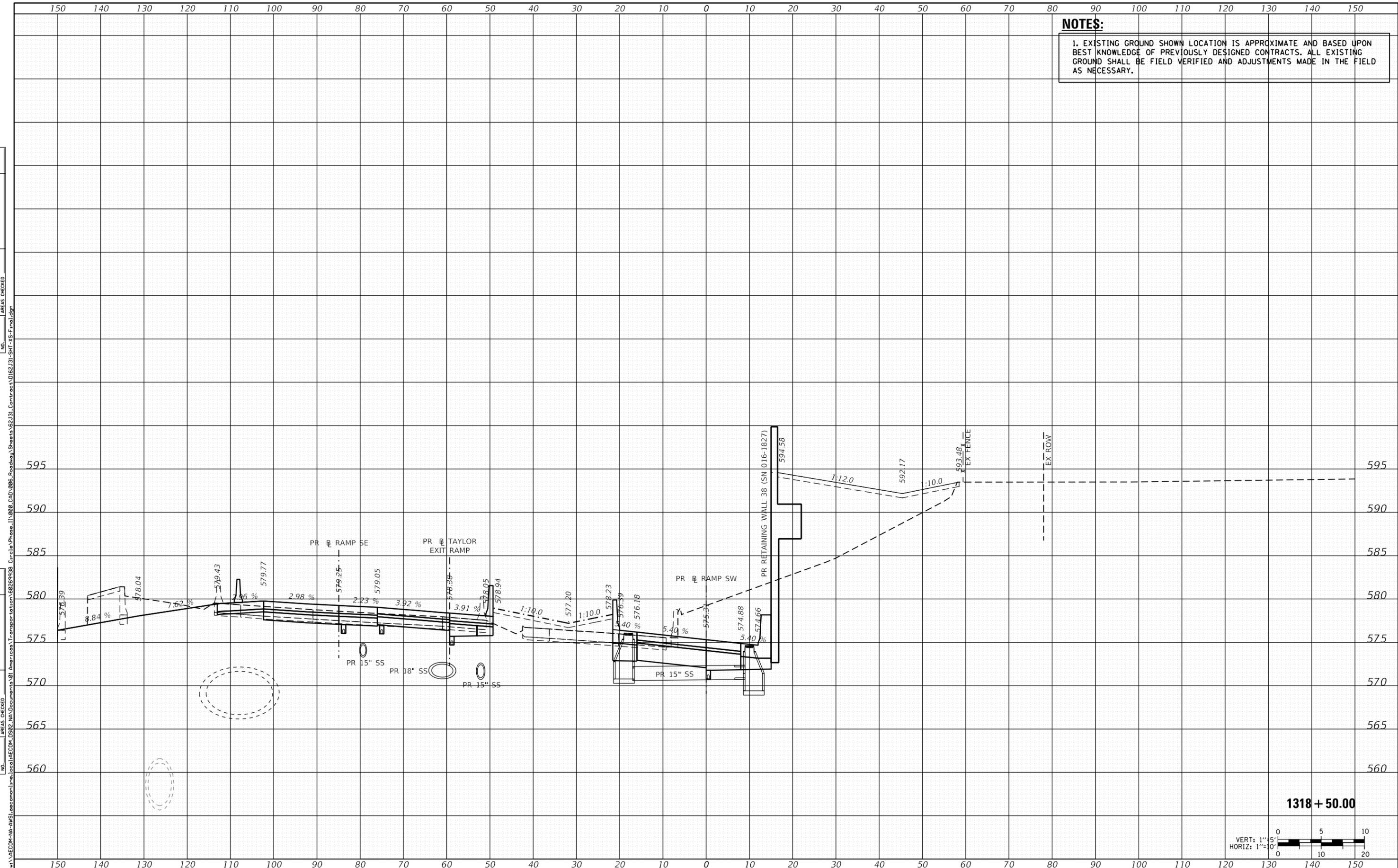
ILLINOIS FED. AID PROJECT

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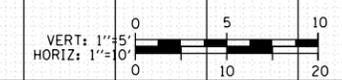
NOTES:
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



1318 + 50.00



D162J31-SHT-XS-Final.dgn
 USER NAME = andy.becker
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/15/2019

DESIGNED - ATB
 DRAWN - ATB
 CHECKED - MJE
 DATE - 8/16/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET 9 OF 10 SHEETS STA. 1318+50.00 TO STA. 1318+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	392
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

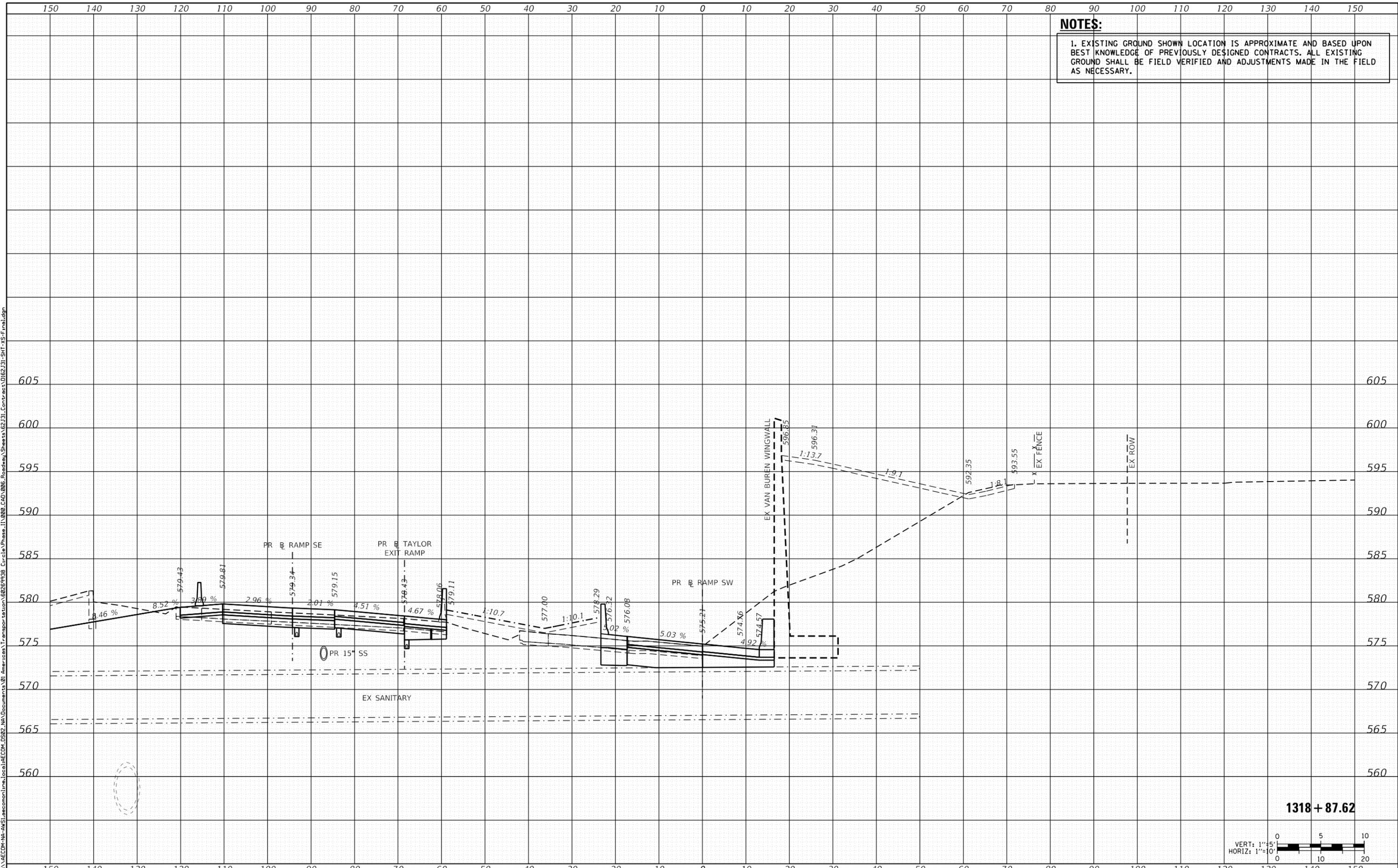
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NOTES:
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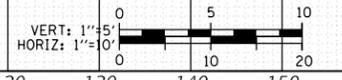
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
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	AREAS CHECKED

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1318 + 87.62



D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET 10 OF 10 SHEETS STA. 1318+87.62 TO STA. 1318+87.62

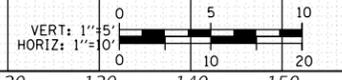
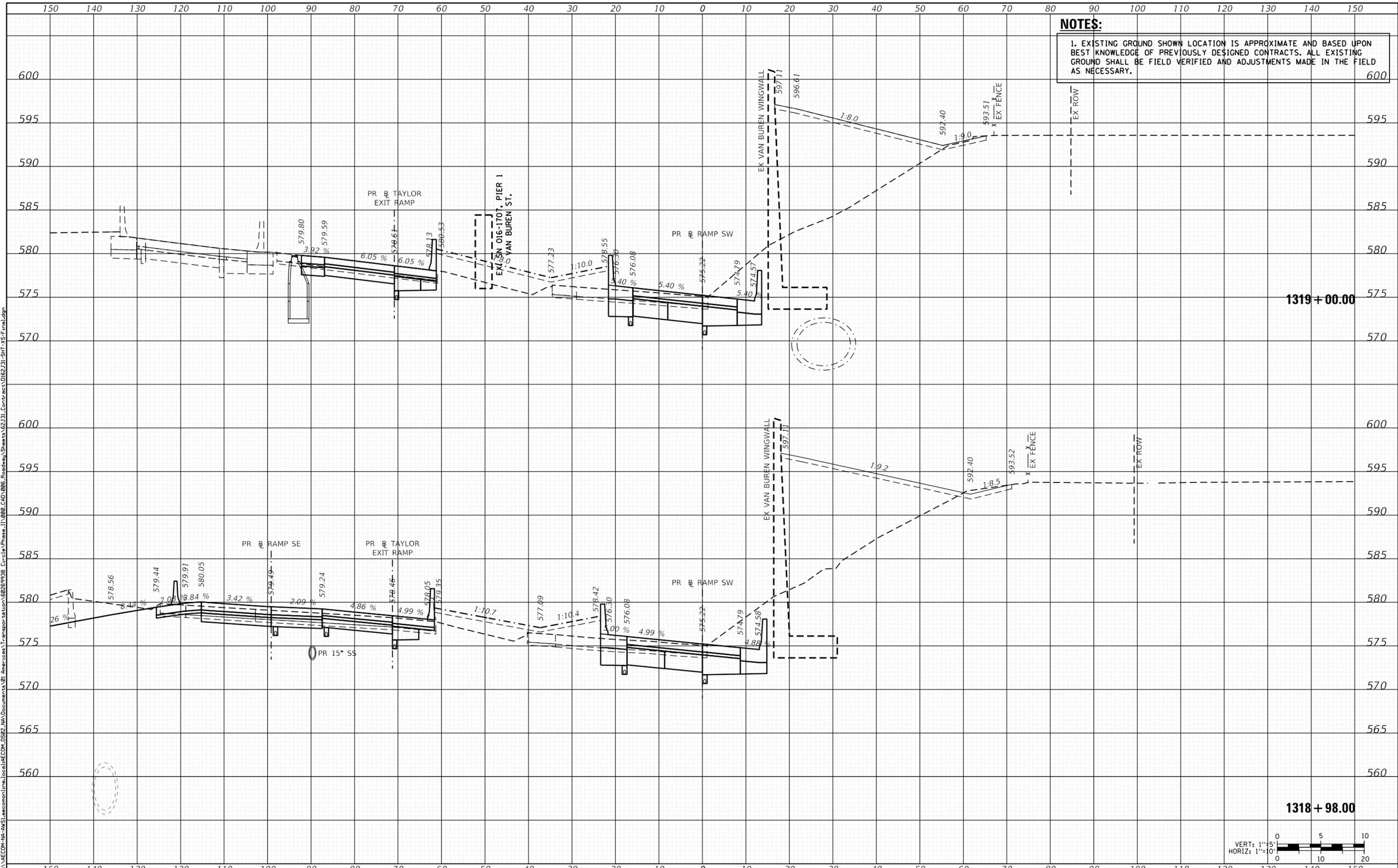
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	393
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - FINAL

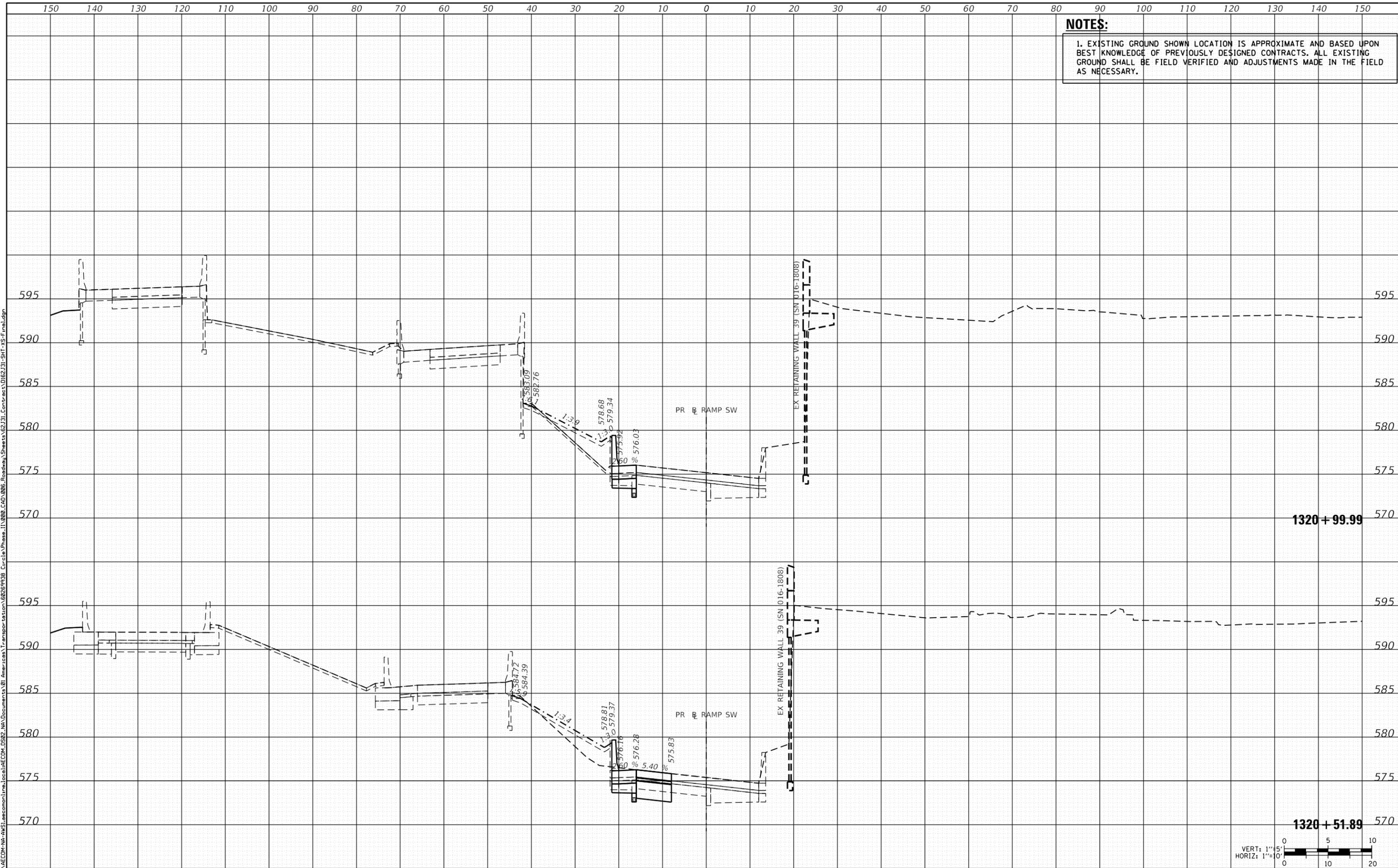
SCALE: 1:5V, 1:10H SHEET OF 10 SHEETS STA. 1318+98.00 TO STA. 1319+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	394
CONTRACT NO. 62J31				
ILLINOIS FED. AID PROJECT				

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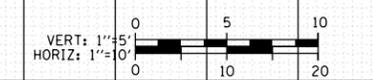
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AREAS CHECKED	

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ORIGINAL SURVEY	
NOTE BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



1320 + 99.99

1320 + 51.89



D162J31-SHT-XS-Final.dgn
 USER NAME = andy.becker
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/15/2019

DESIGNED - ATB
 DRAWN - ATB
 CHECKED - MJE
 DATE - 8/16/2019

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET OF 10 SHEETS STA. 1320+51.89 TO STA. 1320+99.99

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	396
CONTRACT NO. 62J31				

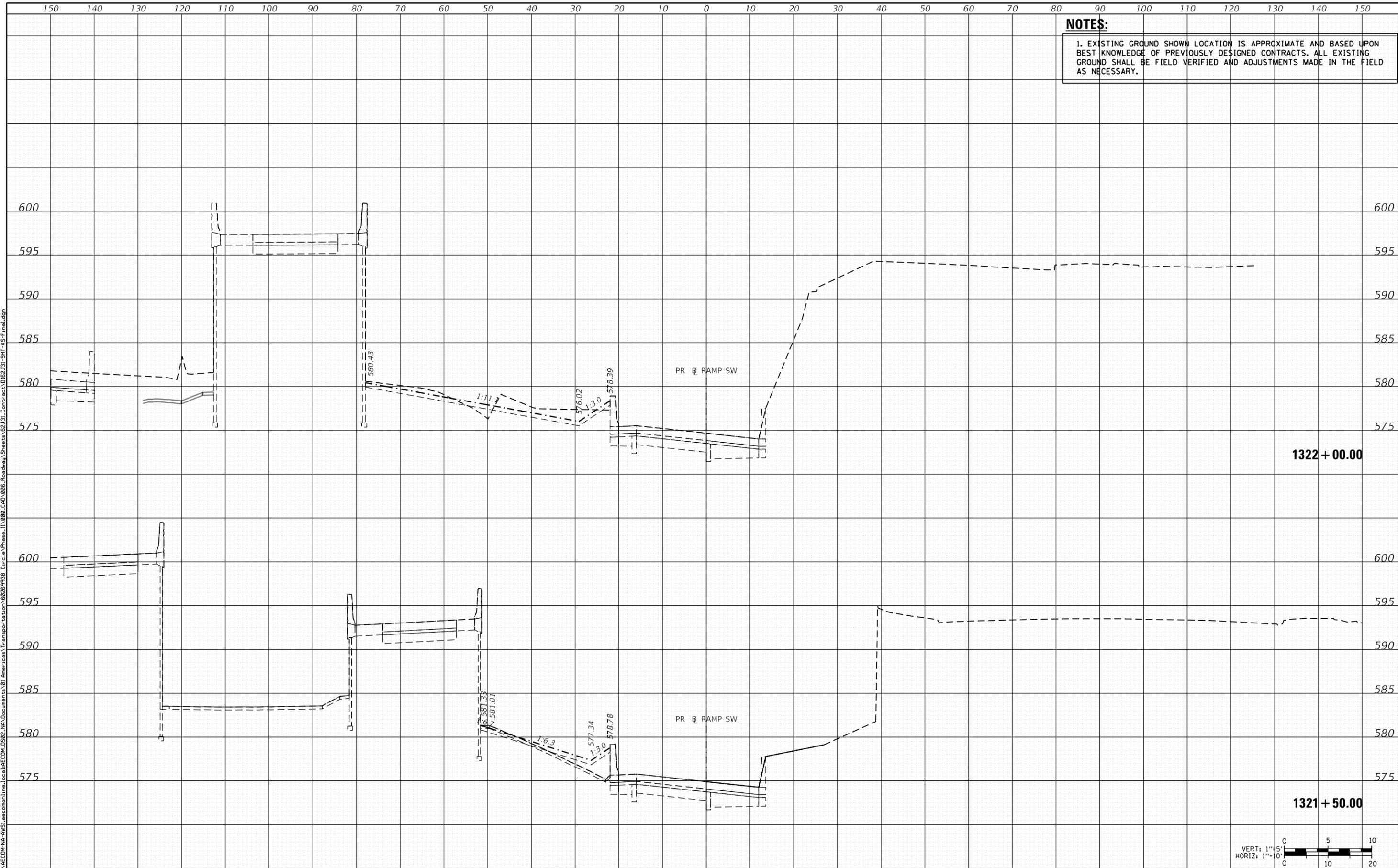
ILLINOIS FED. AID PROJECT

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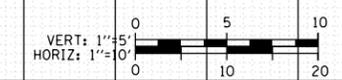
DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



1322 + 00.00

1321 + 50.00



D162J31-SHT-XS-Final.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET OF 10 SHEETS STA. 1321+50.00 TO STA. 1322+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	397
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

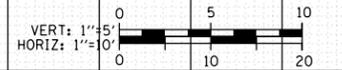
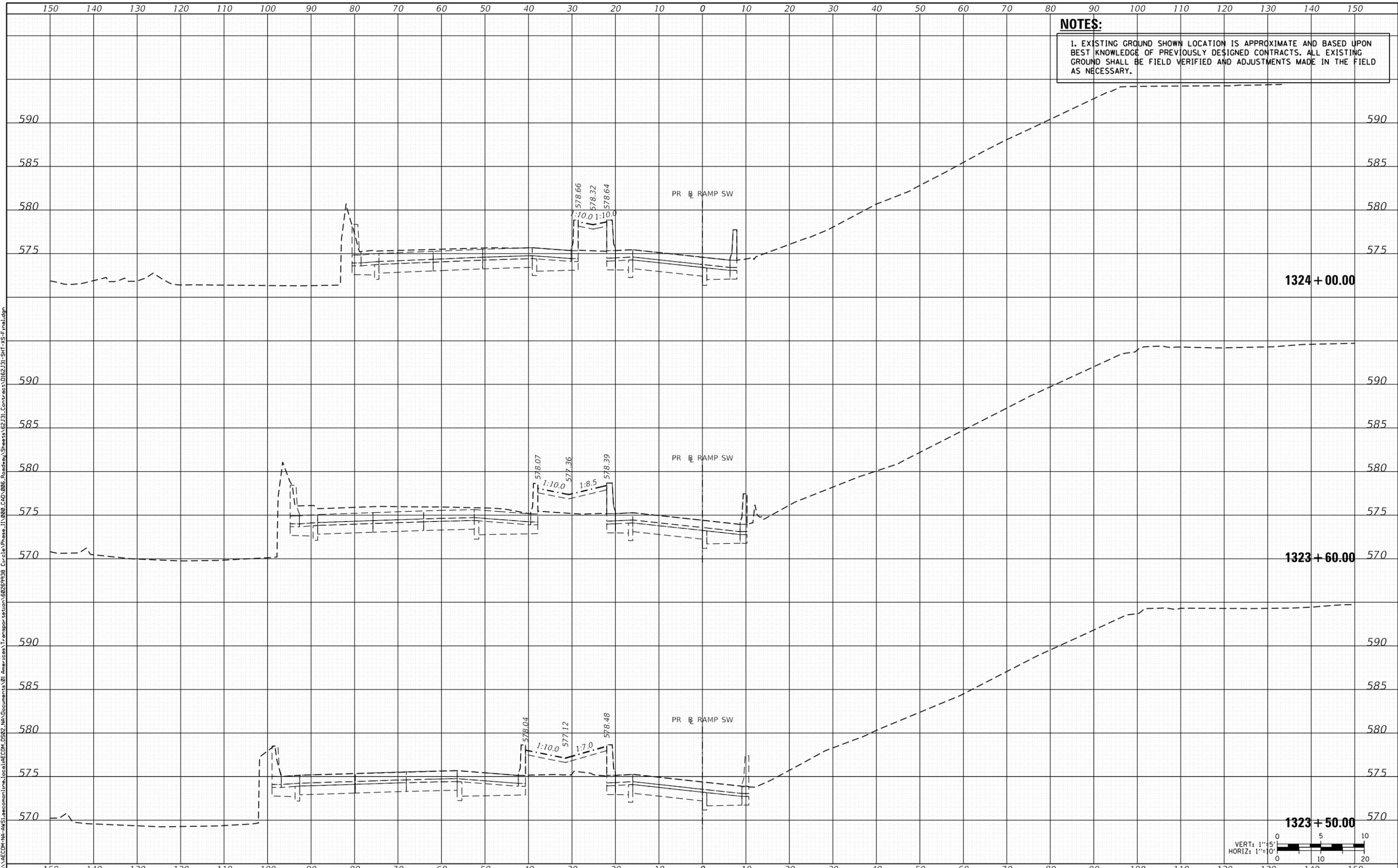
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DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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AREAS CHECKED	

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D162J31-SHT-XS-Final.dgn
 USER NAME = andy.becker
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 8/15/2019

DESIGNED - ATB
 DRAWN - ATB
 CHECKED - MJE
 DATE - 8/16/2019

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - FINAL

SCALE: 1:5V, 1:10H SHEET OF 10 SHEETS STA. 1323+50.00 TO STA. 1324+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	399
CONTRACT NO. 62J31				

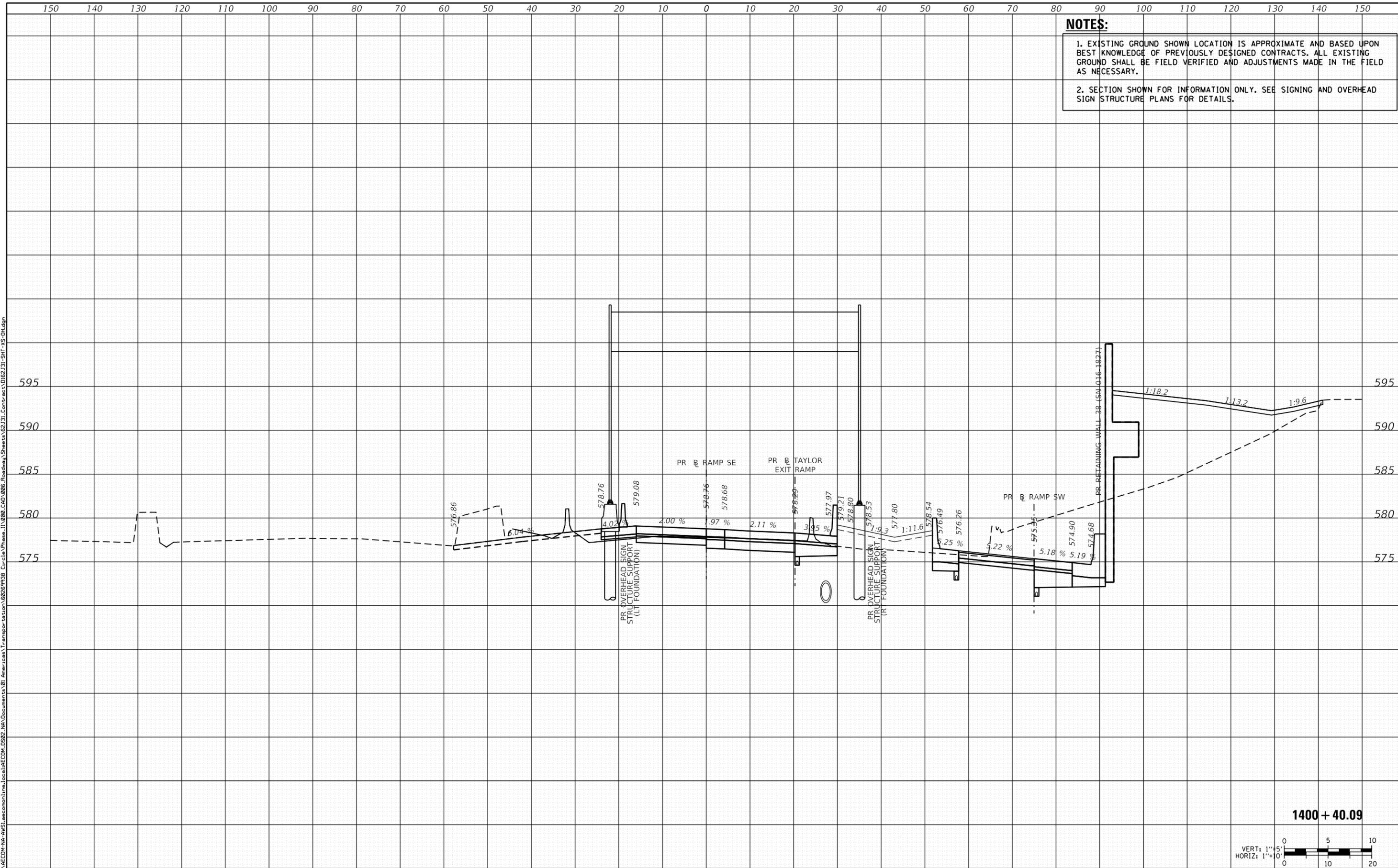
ILLINOIS FED. AID PROJECT

NOTES:

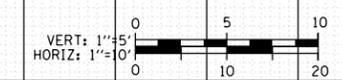
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- SECTION SHOWN FOR INFORMATION ONLY. SEE SIGNING AND OVERHEAD SIGN STRUCTURE PLANS FOR DETAILS.

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



1400 + 40.09



D162J31-SHT-XS-0H.dgn	DESIGNED - ATB	REVISED -
USER NAME = andy.becker	DRAWN - ATB	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - OVERHEAD SIGN

SCALE: 1:5V, 1:10H SHEET 1 OF 1 SHEETS STA. 1400+40.09 TO STA. 1400+40.09

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	400
CONTRACT NO. 62J31				

ILLINOIS FED. AID PROJECT

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