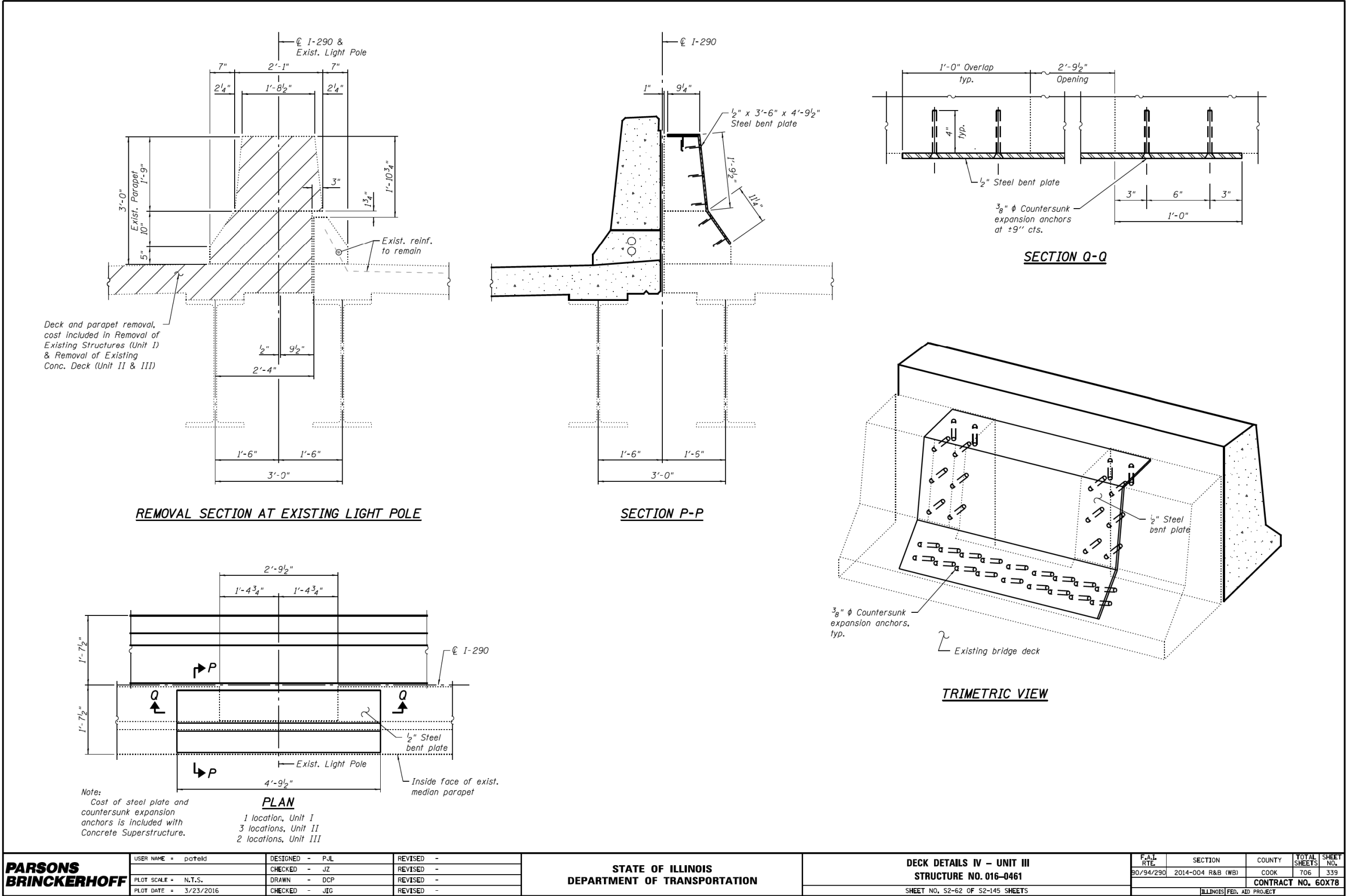
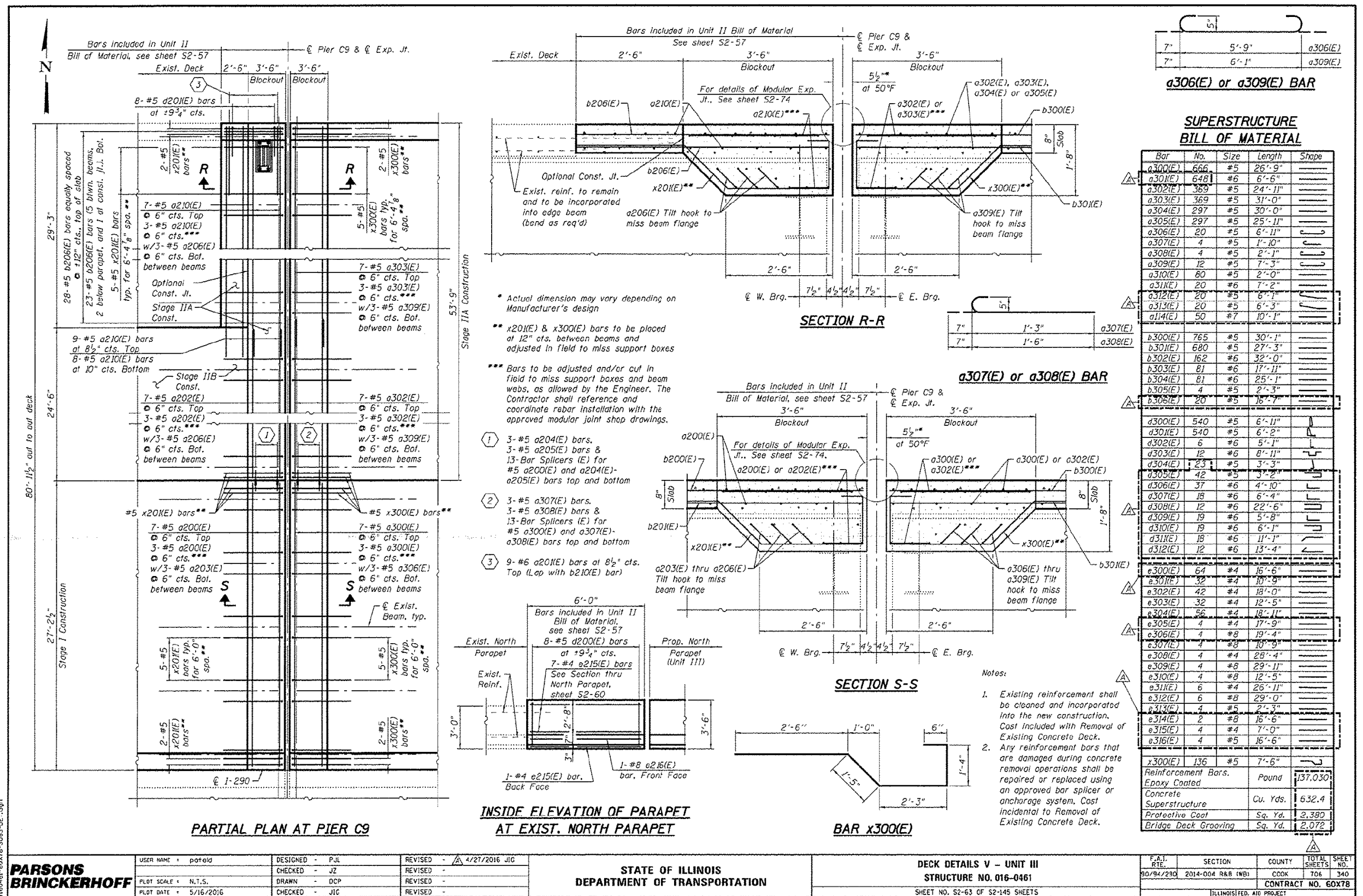


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**PARSONS
BRINCKERHOFF**

USER NAME = potold	DESIGNED = P.JL	REVISED = 4/27/2016 JIG
PLOT SCALE = N.T.S.	CHECKED = JZ	REVISED =
PLOT DATE = 5/16/2016	DRAWN = DCP	REVISED =
	CHECKED = JIG	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK DETAILS V - UNIT III
STRUCTURE NO. 016-0461**

SHEET NO. S2-63 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	340
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

USER NAME = ahmad,issa	DESIGNED =	REVISED =
PLOT SCALE = N.T.S.	CHECKED =	REVISED =
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

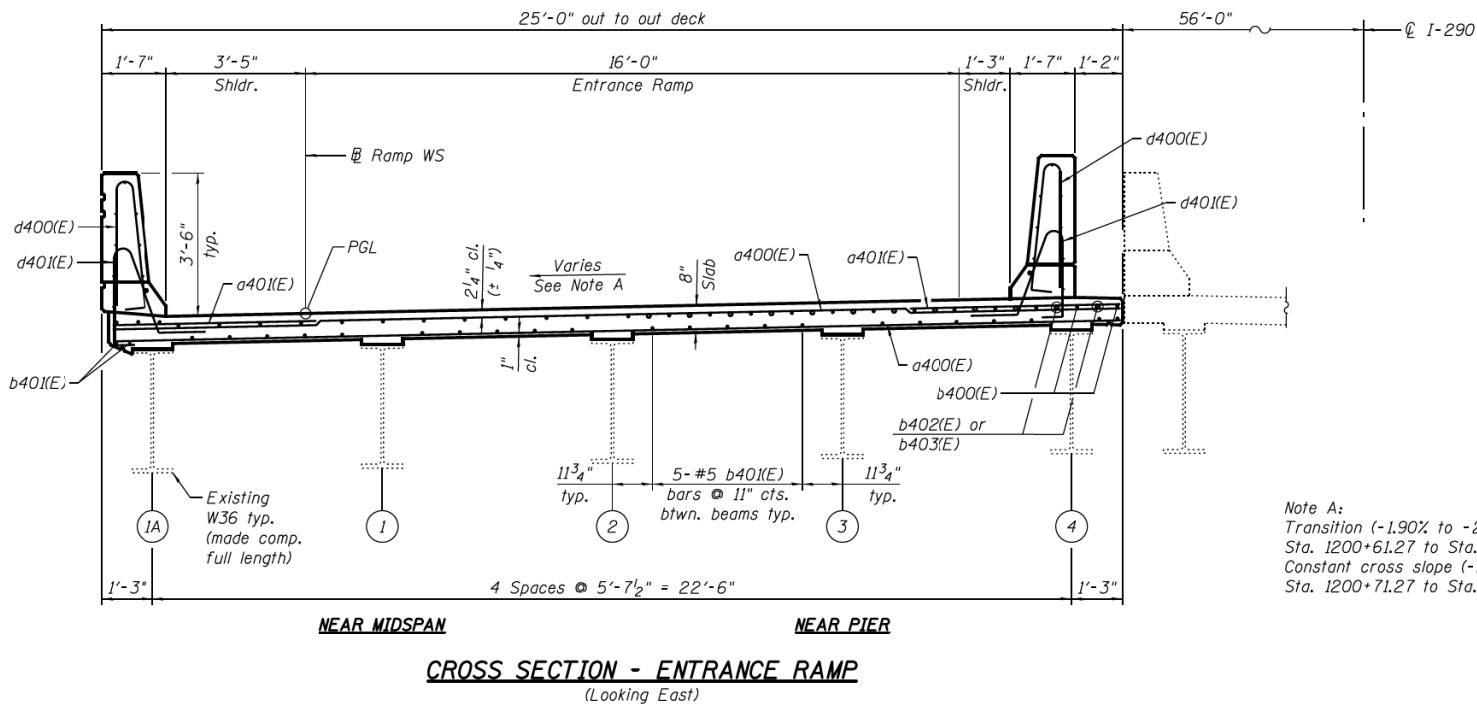
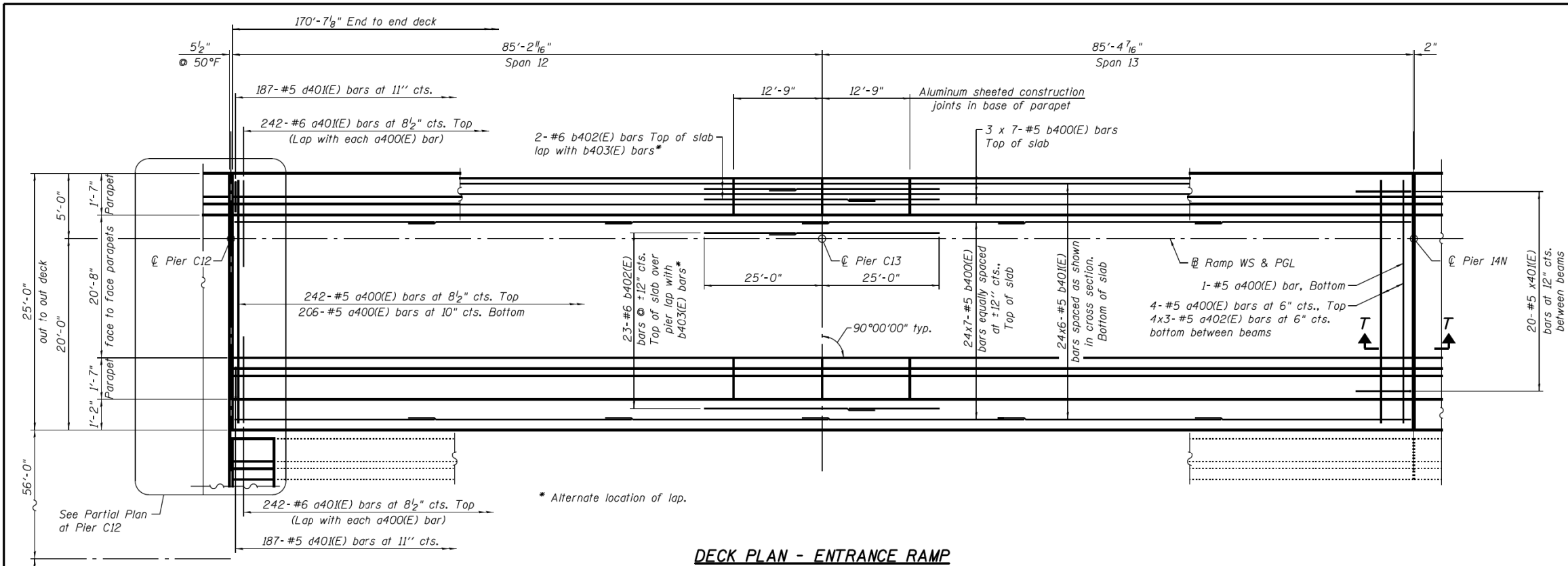
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FILE NAME: pw:\617479-PWINT.aecomonline.local\AECOM_D502_NAI\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000 CAD\008_Structural\Structure 016-1718\Existing Plans\33906-60\X93-SXX-Existing 125



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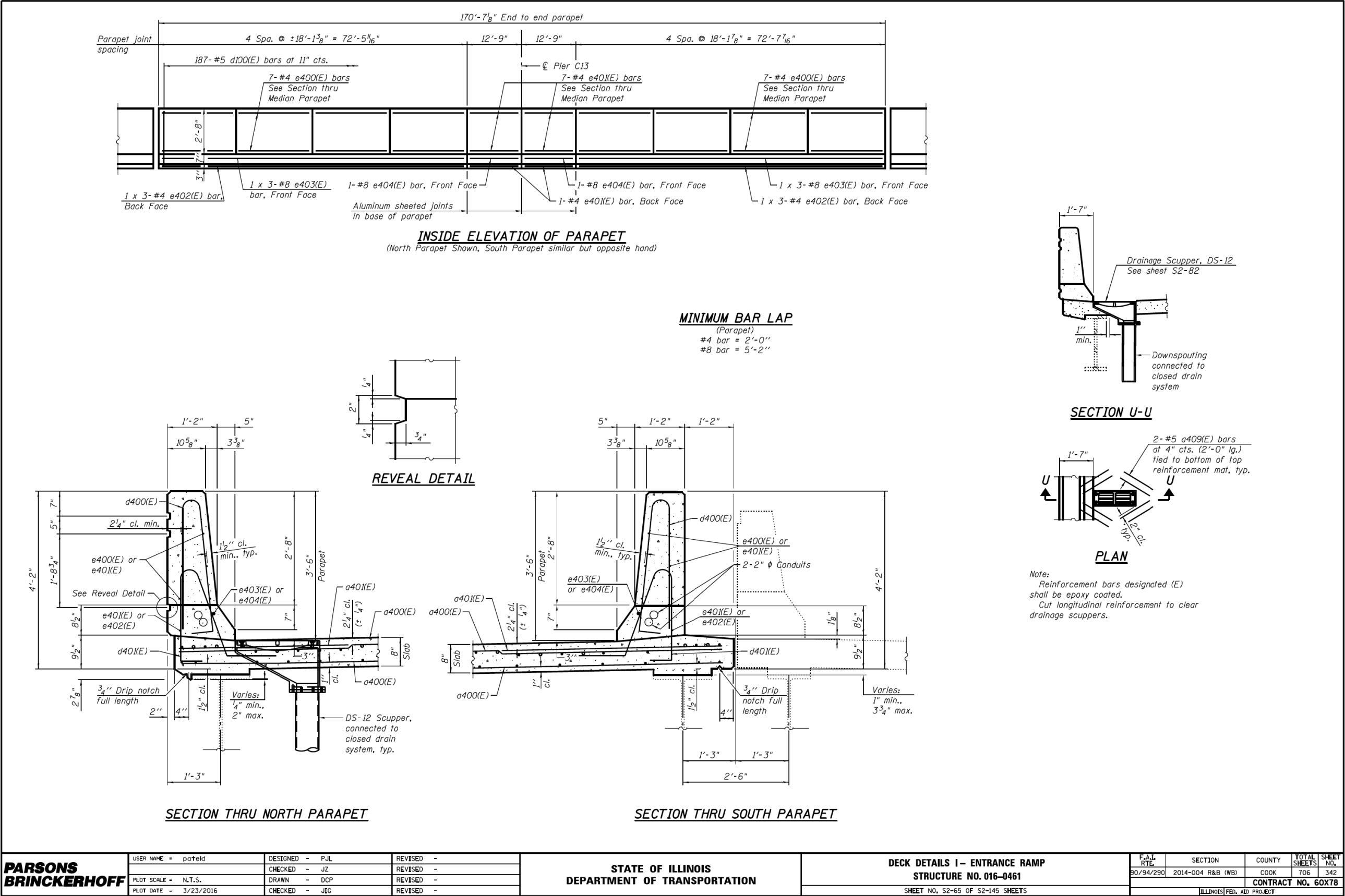
MINIMUM BAR LAP
#5 bar = 2'-7"
#6 bar = 3'-1"

- Notes:
- See sheet S2-65, for parapet reinforcement.
 - See sheet S2-66, for Partial Plan at Pier C12.
 - See sheet S2-67, for superstructure details, Section T-T, and Bill of Material.
 - Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 - Reinforcement bars shall not pass thru aluminum sheets and cork joint filler.

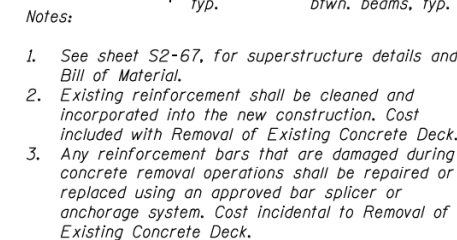
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		CHECKED - JIG	REVISED -			ILLINOIS FED. AID PROJECT				

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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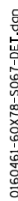
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TITNOTS		FED. AID PROJECT		

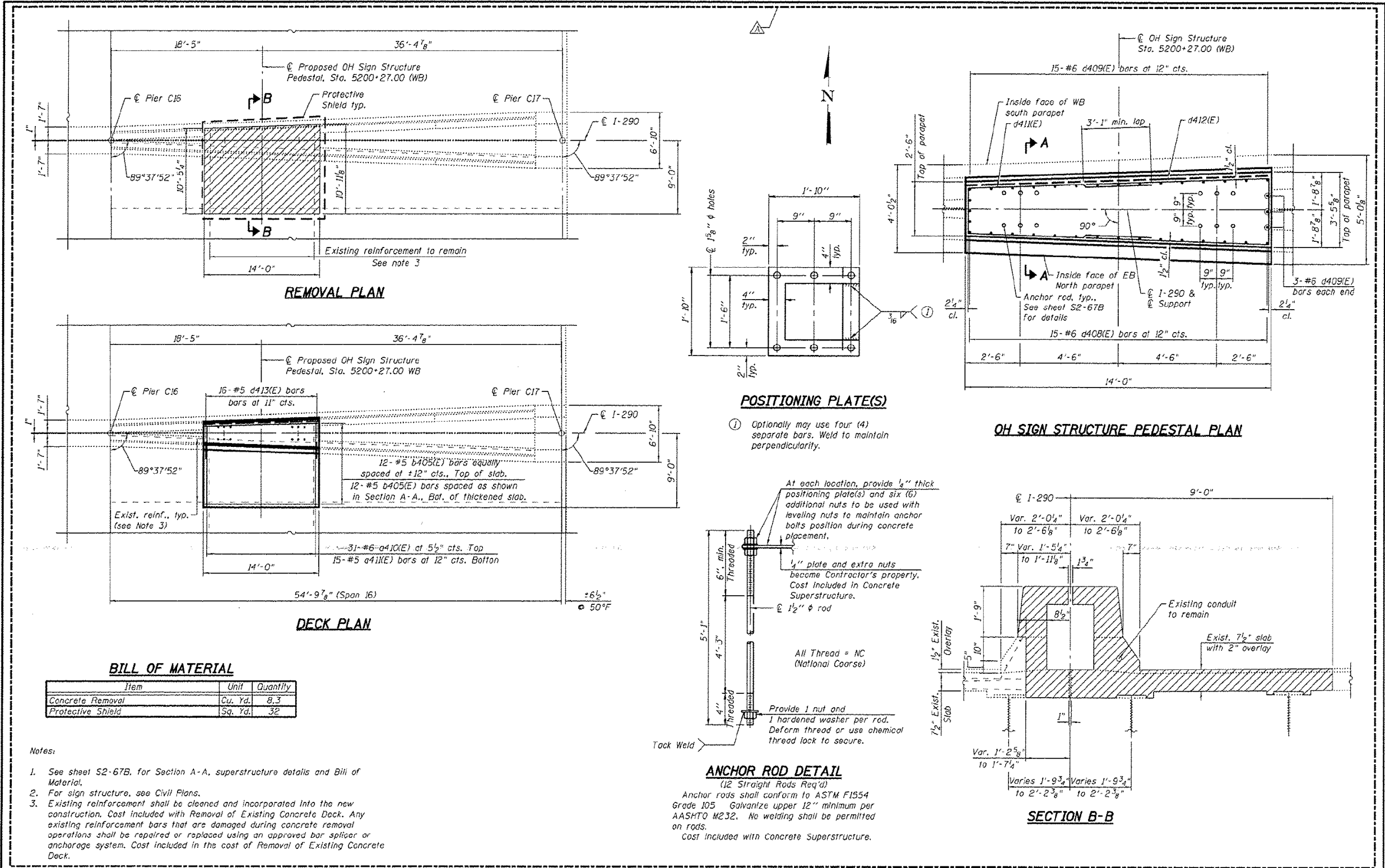
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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	ILLINOIS		FED. AID PROJECT		

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PARSONS
BRINCKERHOFF

USER NAME -	dotaid	DESIGNED -	ILJ	REVISED -	4/27/2016 JIG
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PLOT DATE -	5/16/2016	DRAWN -	DEP	REVISED -	
		CHECKED -	JIG	REVISED -	

STATE OF ILLINOIS
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DECK PLAN - UNIT IV
STRUCTURE NO. 016-0461

SHEET NO. S2-67A OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	344A
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

USER NAME -	ahmad,issa	DESIGNED -		REVISED -	
		CHECKED -		REVISED -	
PLOT SCALE -	N.T.S.	DRAWN -		REVISED -	
PLOT DATE -	7/26/2018	CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

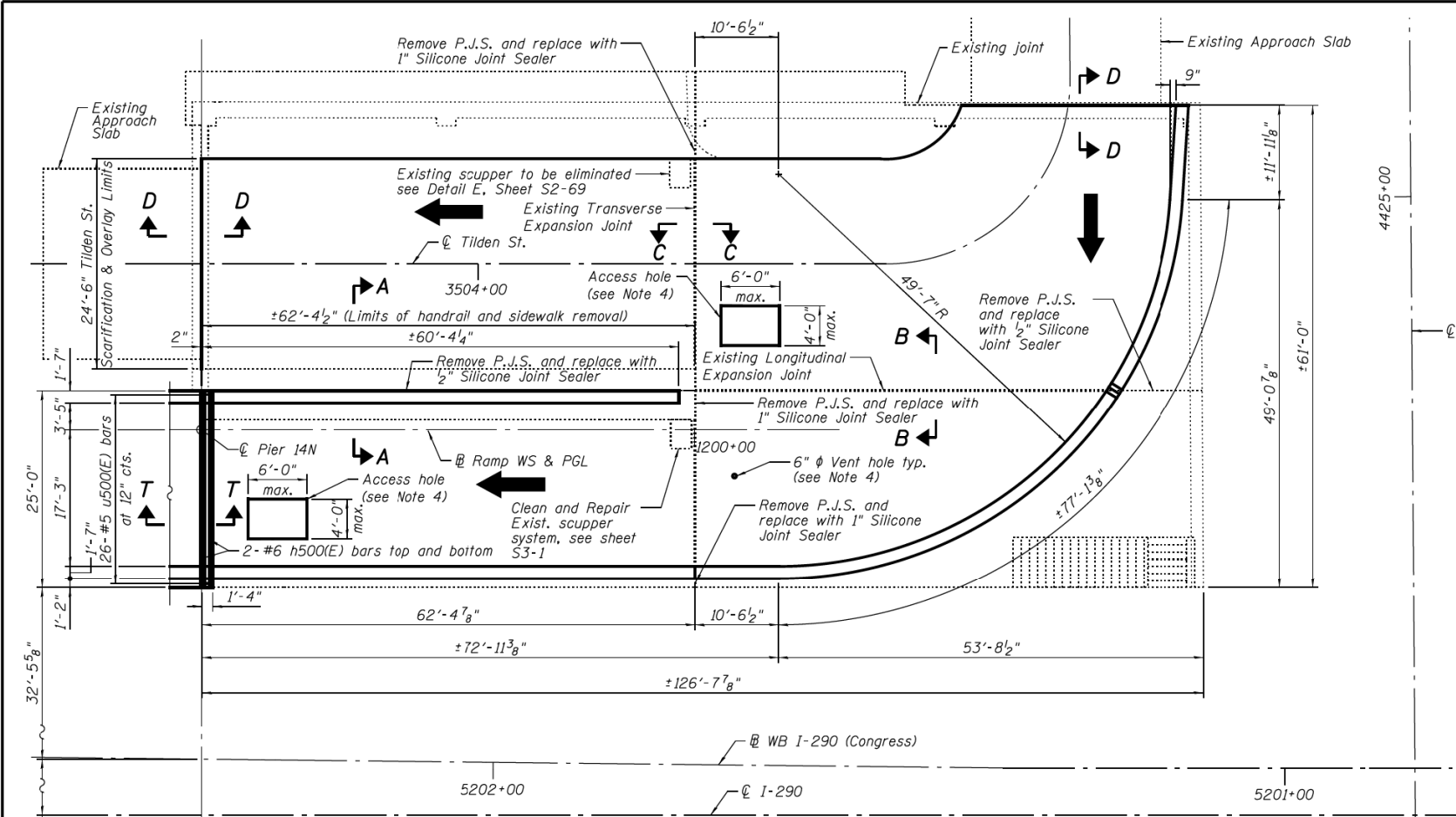
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ILLINOIS FED. AID PROJECT				

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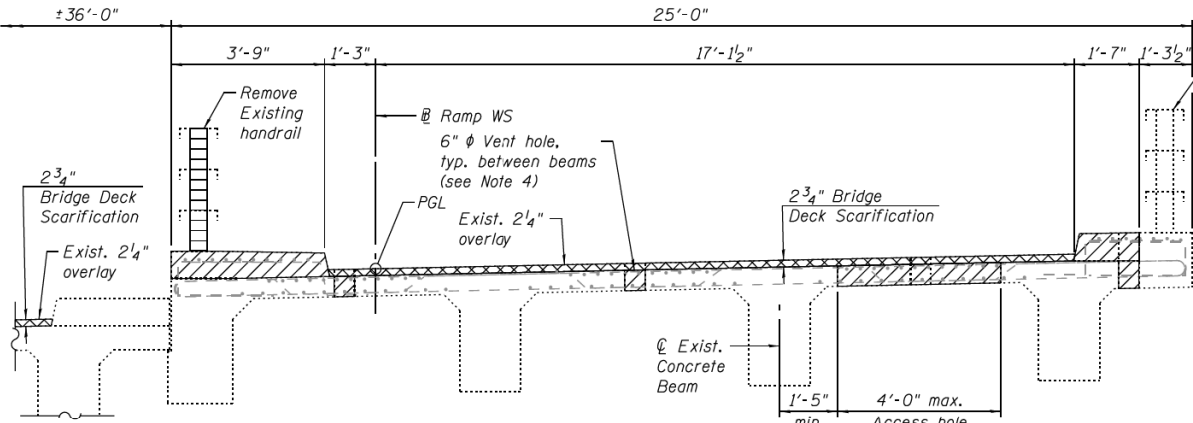
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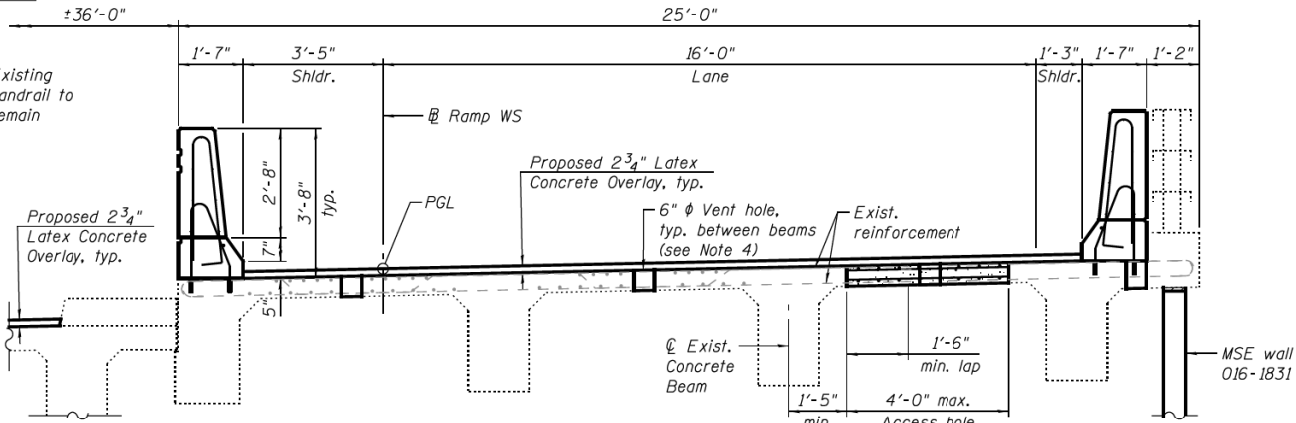
PLAN - CANAL STREET APPROACH SPANS

LEGEND:

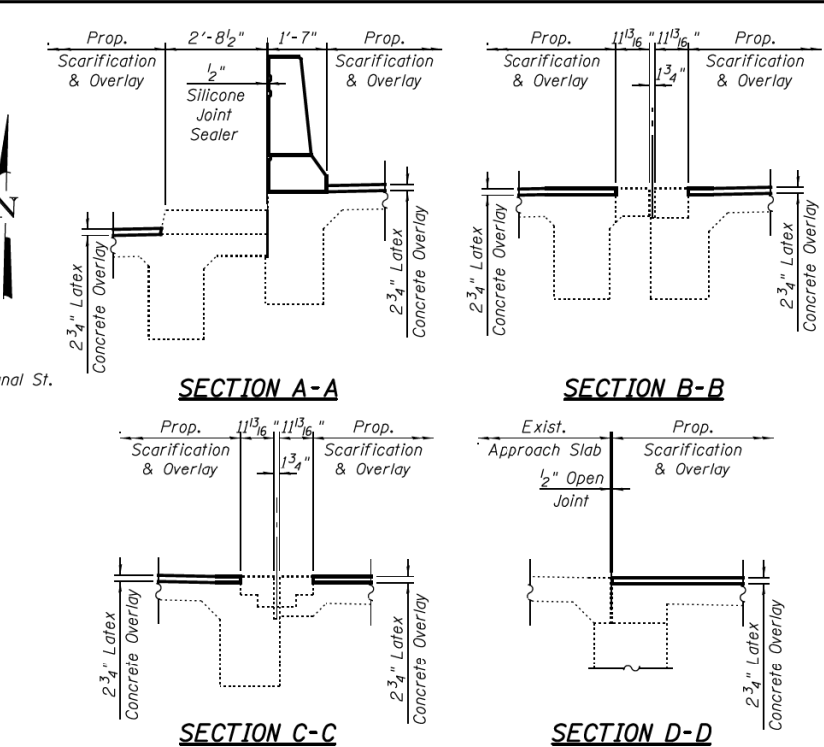
- Concrete Removal
- Bridge Deck Scarification
- Handrail Removal



EXISTING CROSS SECTION
(Looking East, Showing removal)



PROPOSED CROSS SECTION
(Looking East)



- Notes:
- See sheet S2-67, for section T-T.
 - See sheet S2-69, for parapet details, reinforcement and Bill of Material.
 - The cabinet for traffic surveillance loops on the Canal Street Entrance Ramp near Sta. 1200+60 (Ramp WS), is attached to the existing structure at the Canal Street Entrance Ramp. ITS infrastructure will be relocated, as necessary, to avoid conflict with the proposed parapet.
 - Proposed access holes and vent holes between existing beams shall be reconstructed to original deck level as shown in proposed cross section. The location to be determined by Contractor. Cost of access holes and vent holes removal and reconstruction shall be included in Lightweight Cellular Concrete Fill, see MSE wall plans (SN 016-1831) Sheets S3-1 and S3-2.
 - Bridge deck scarification and latex concrete overlay work shall be performed in stages to allow continuous access to the entrance and garage of 525 W. Van Buren St.
 - Existing reinforcement shall be cleaned and incorporated into the new construction.
 - Any reinforcement bars that are damaged during access hole and vent hole removal and reconstruction shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Lightweight Cellular Concrete Fill.

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - HA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPROACH SPAN PLAN STRUCTURE NO. 016-0461	F.A.I. RTE. 90/94/290	SECTION 2014-004 R&B (WB)	COUNTY COOK	TOTAL SHEETS 706	SHEET NO. 345
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SHEET NO. S2-68 OF S2-145 SHEETS						CONTRACT NO. 60X78				
						ILLINOIS FED. AID PROJECT				

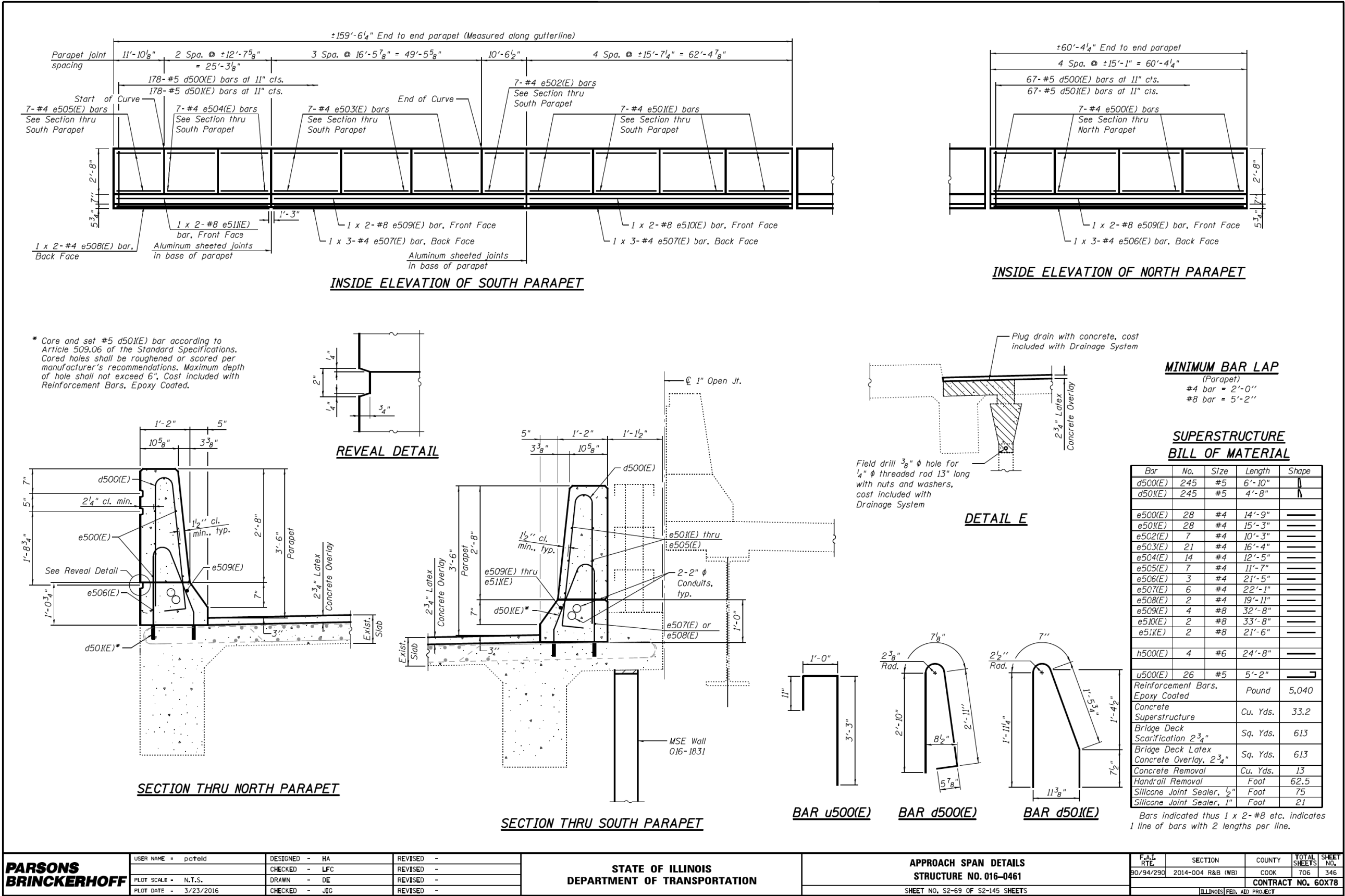
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

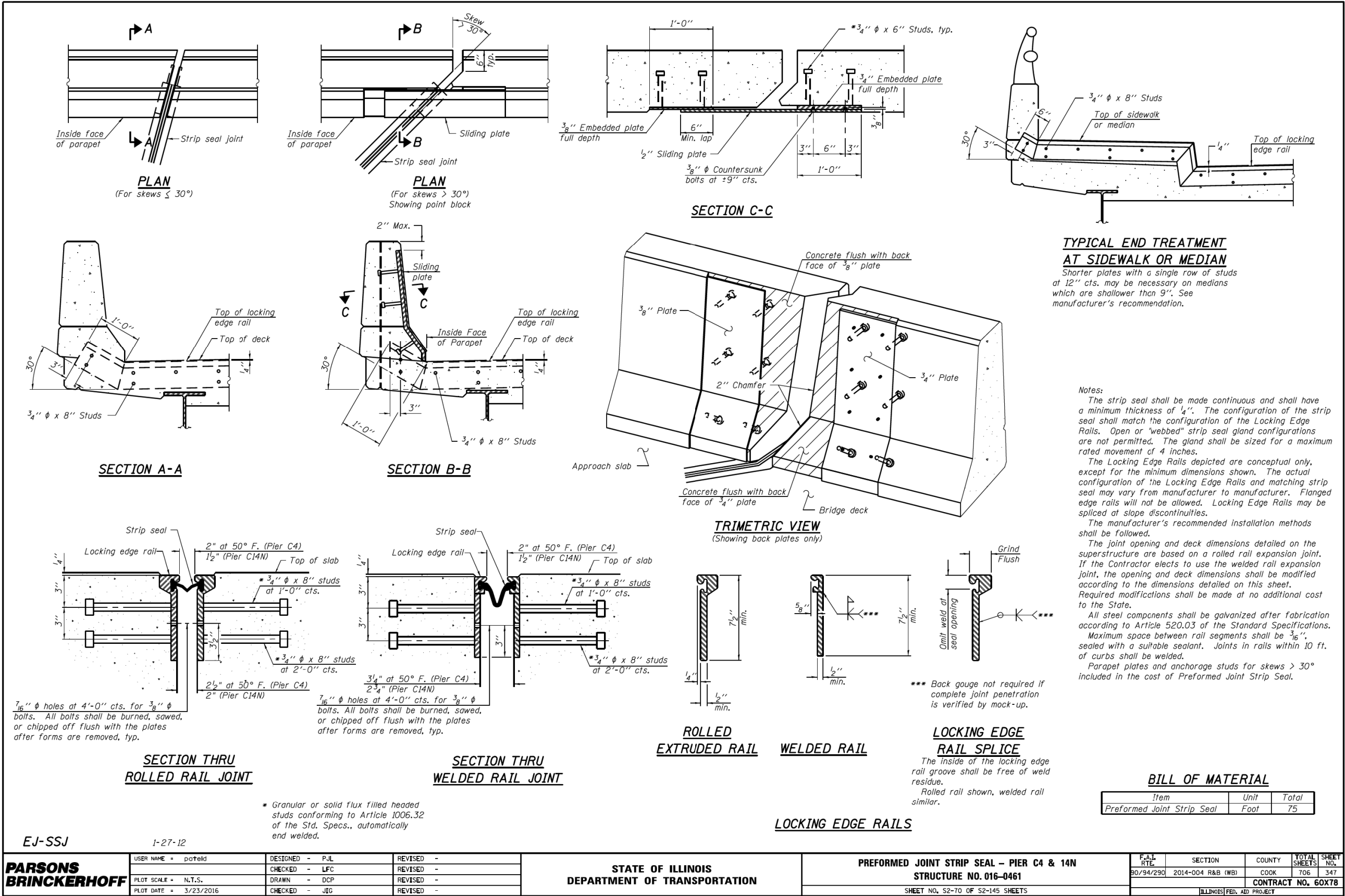
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS		FED. AID PROJECT		

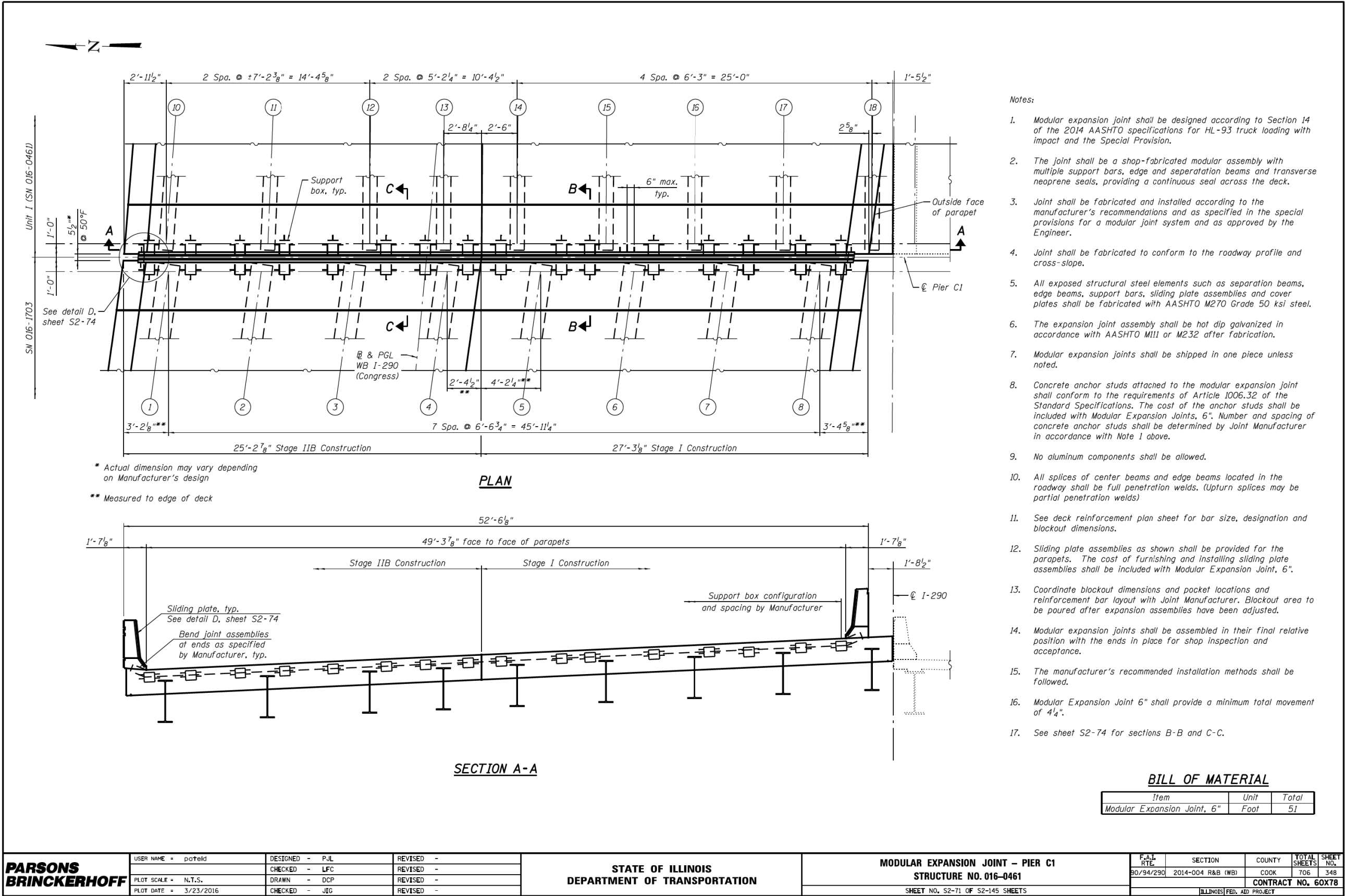
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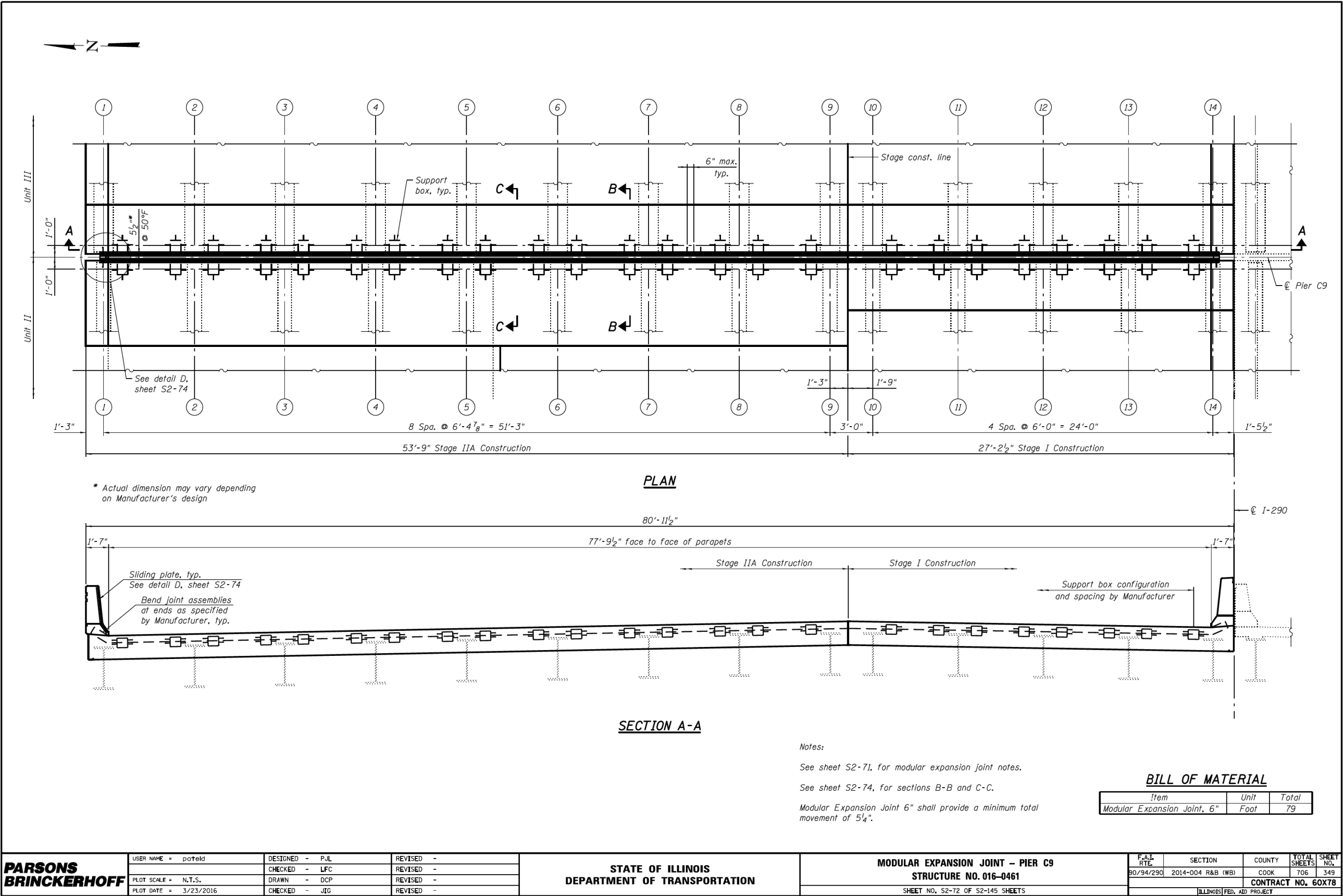
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PLOT DATE =	7/26/2018	CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

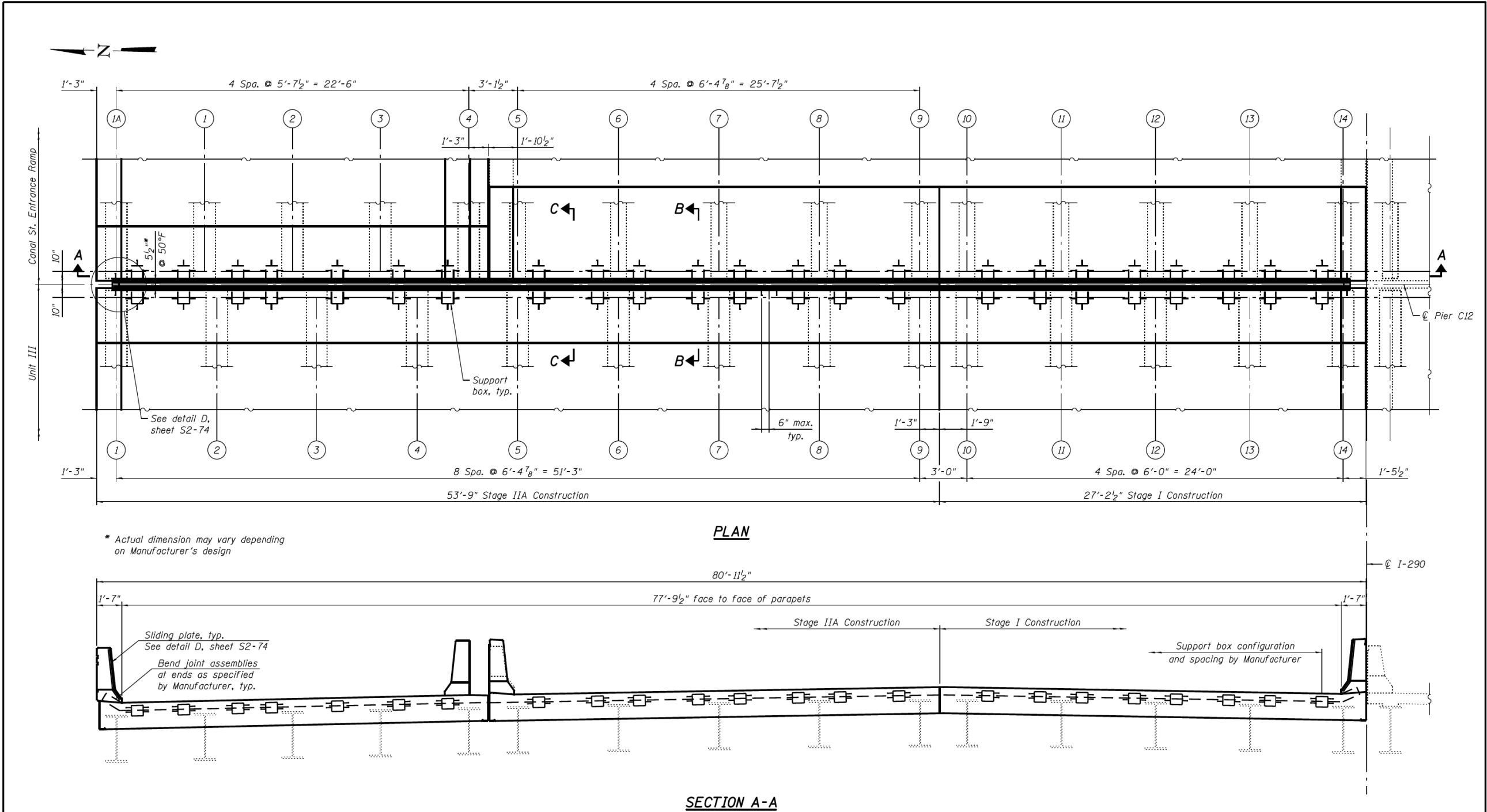
EXISTING RECORD DRAWINGS

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90/94/290	2014-013R&B-R	COOK	1972	1714

CONTRACT NO. 60X93

ILLINOIS FED. AID PROJECT

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* Actual dimension may vary depending on Manufacturer's design

PLAN

SECTION A-A

Notes:
See sheet S2-71, for modular expansion joint notes.
See sheet S2-74, for sections B-B and C-C.
Modular Expansion Joint 6" shall provide a minimum total movement of 4 1/2".

BILL OF MATERIAL

Item	Unit	Total
Modular Expansion Joint, 6"	Foot	79

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - P.JL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MODULAR EXPANSION JOINT – PIER C12 STRUCTURE NO. 016-0461 SHEET NO. S2-73 OF S2-145 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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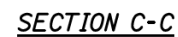
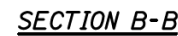
HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

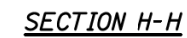
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ILLINOIS FED. AID PROJECT				

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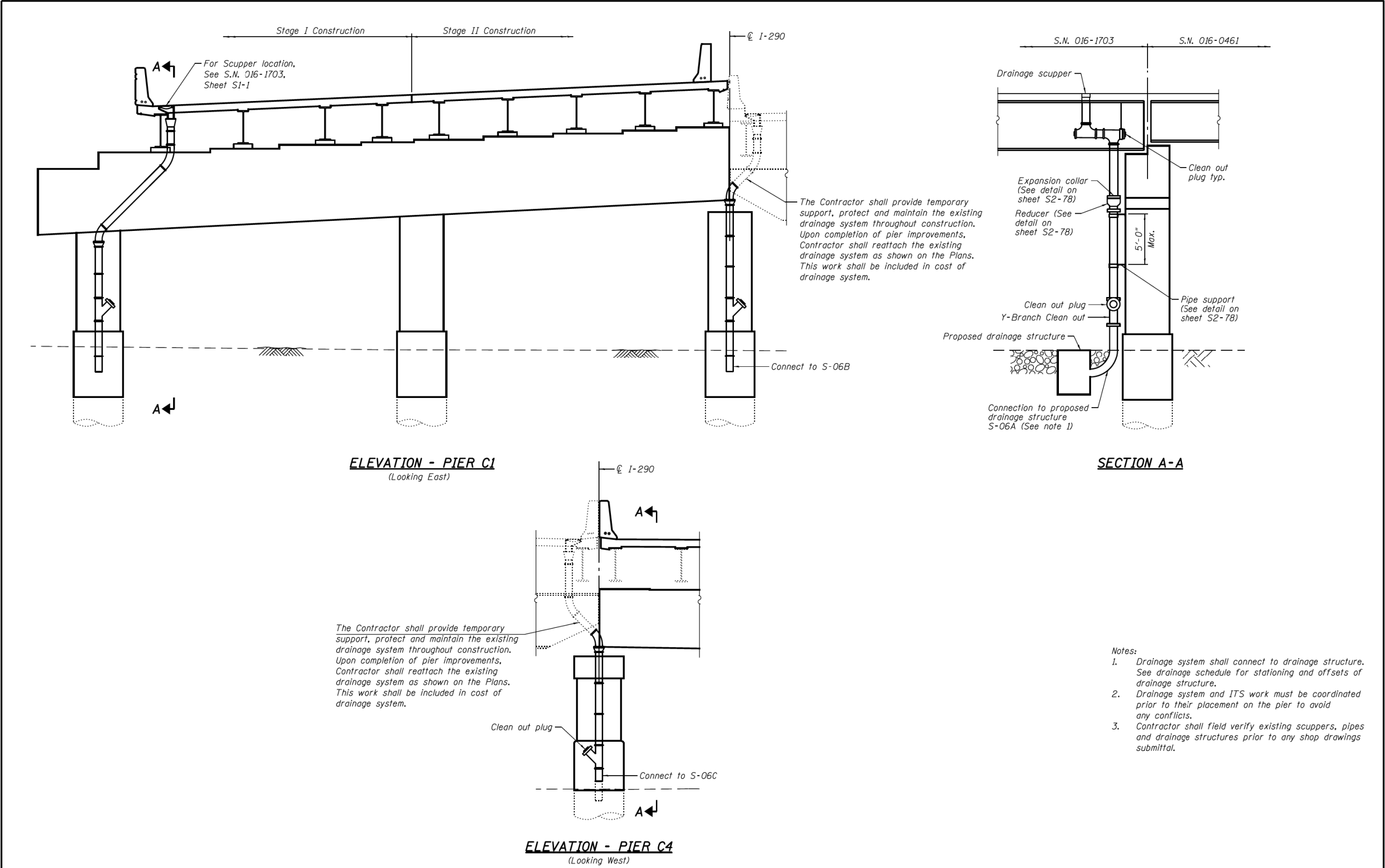


**** Blockout dimensions to be verified by Contractor with Joint Manufacturer. See sheet S2-51 for blockout dimensions and additional details of edge beam at Pier C1. See sheet S2-63 for blockout dimensions and additional details of edge beam at Pier C9. See sheet S2-66 for blockout dimensions and additional details for edge beam at Pier C12.**



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1716
		CONTRACT NO. 60X93		
		ILLINOIS	FED. AID PROJECT	

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PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - HA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE SYSTEM DETAILS - PIER C1 & C4 STRUCTURE NO. 016-0461	SHEET NO. S2-75 OF S2-145 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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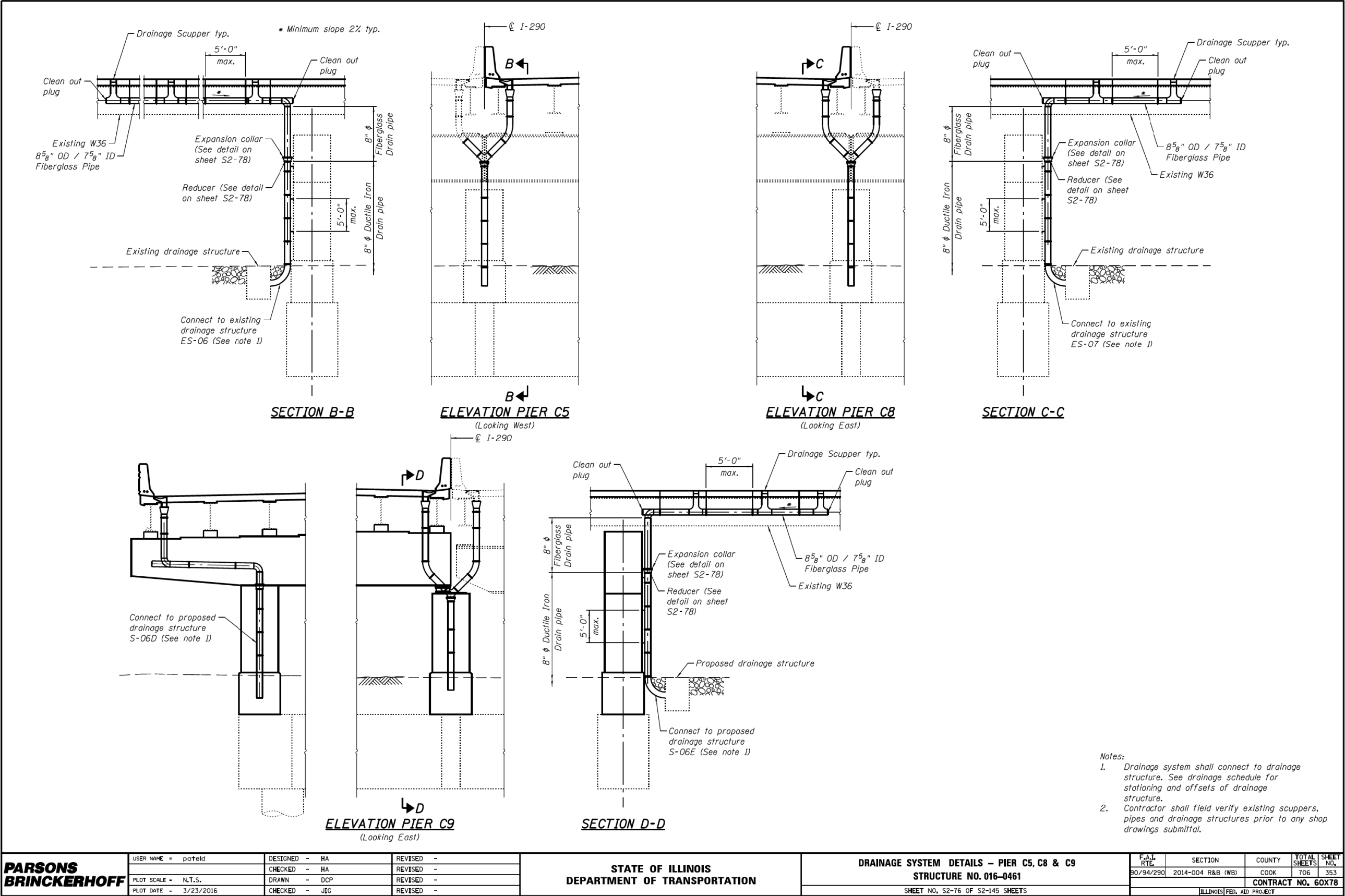
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EXISTING RECORD DRAWINGS

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ILLINOIS FED. AID PROJECT				

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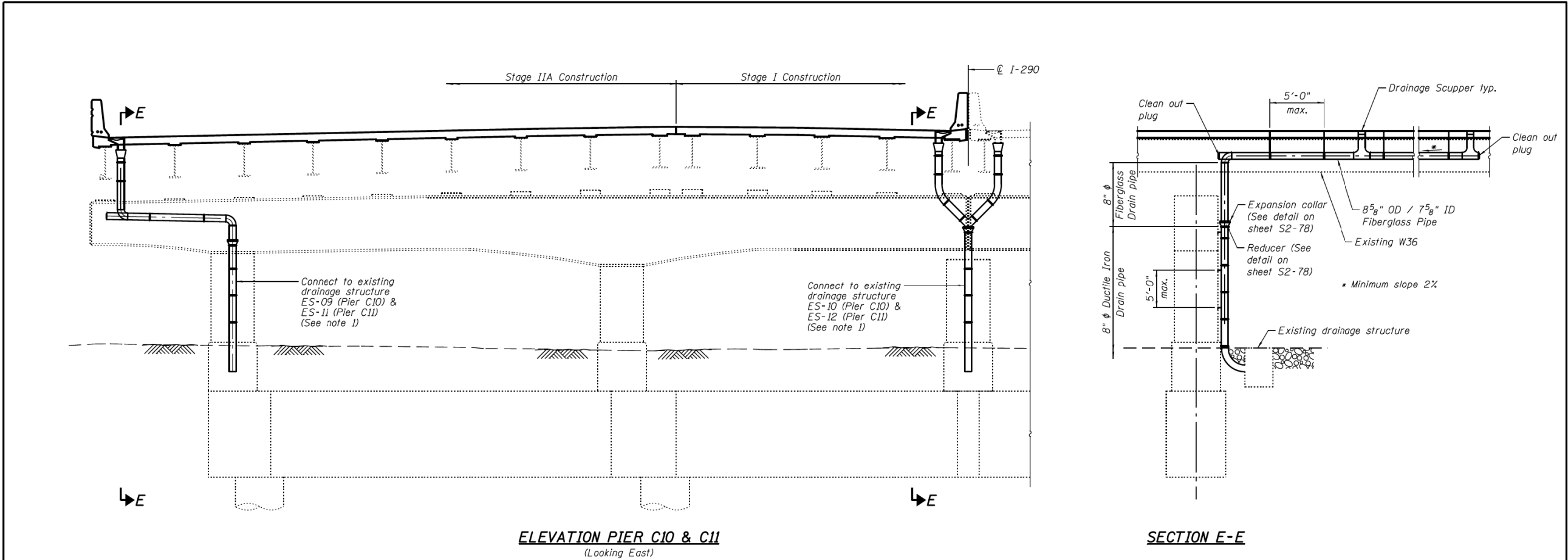
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90/94/290	2014-013R&B-R	COOK	1972	1718
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



- Notes:
1. Drainage system shall connect to an existing drainage structure. See drainage schedule for stationing and offsets of existing drainage structure.
 2. Contractor shall field verify existing scuppers, pipes and drainage structures prior to any shop drawings submittal.

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - HA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE SYSTEM DETAILS – PIER C10 & C11 STRUCTURE NO. 016-0461	F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEET SHEETS NO.
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	SHEET NO. S2-77 OF S2-145 SHEETS									

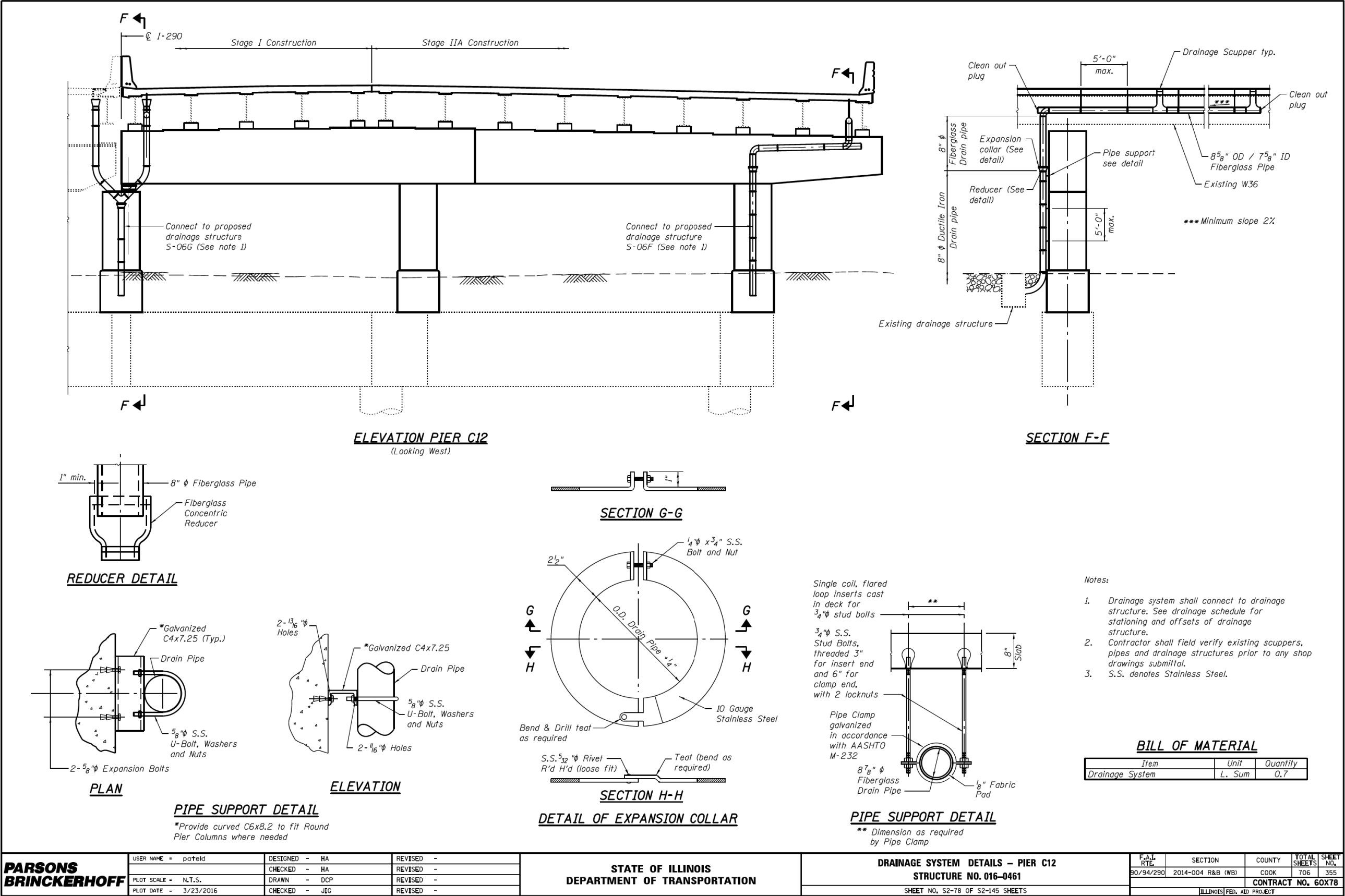
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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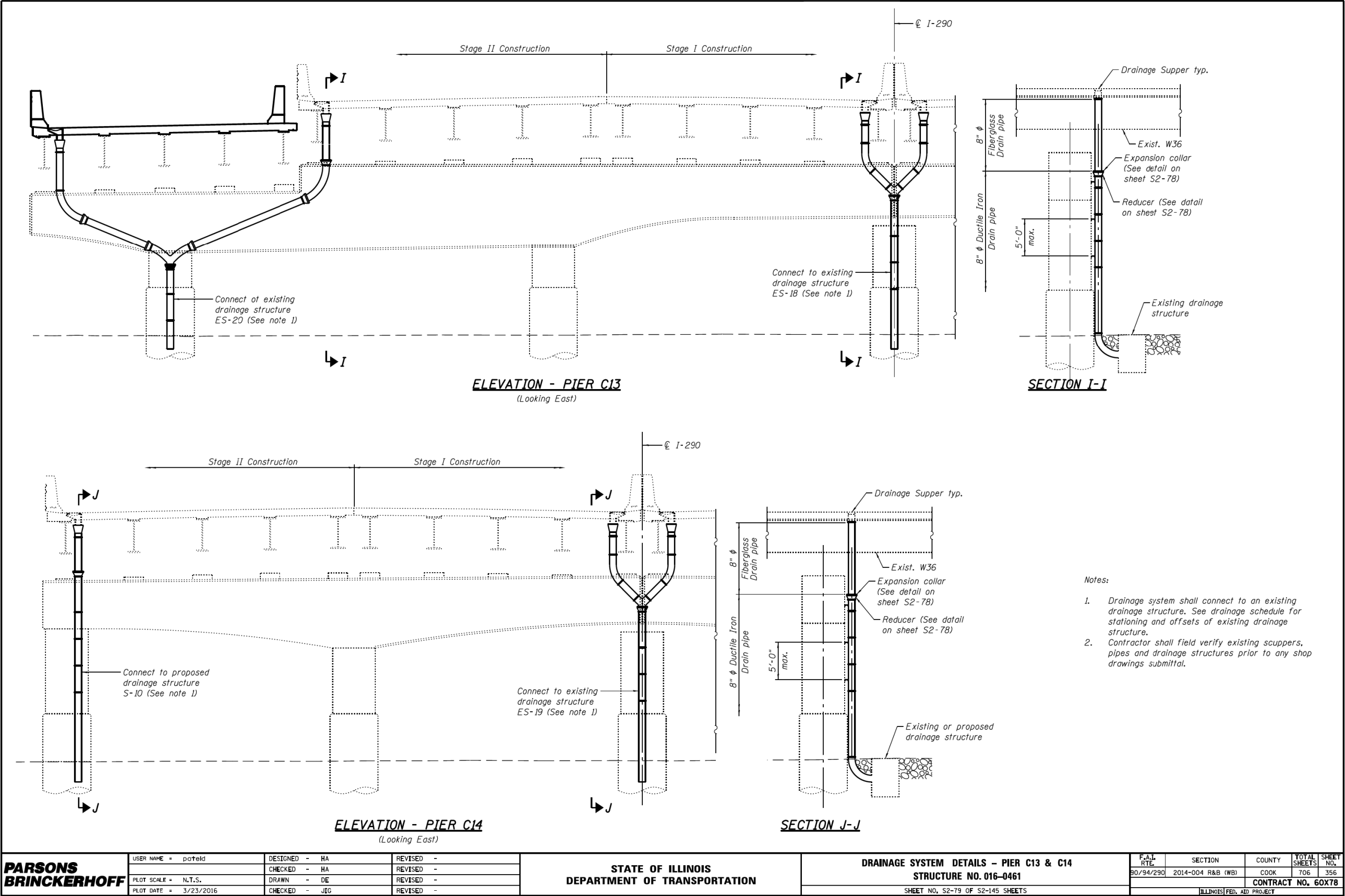
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

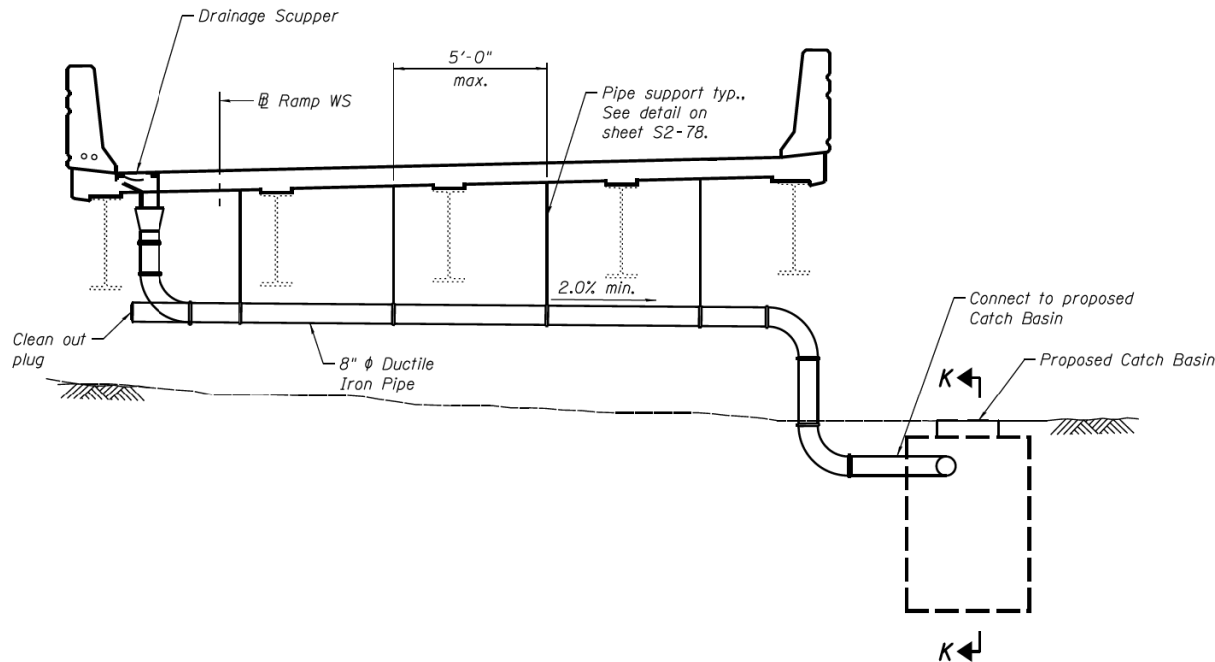
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ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

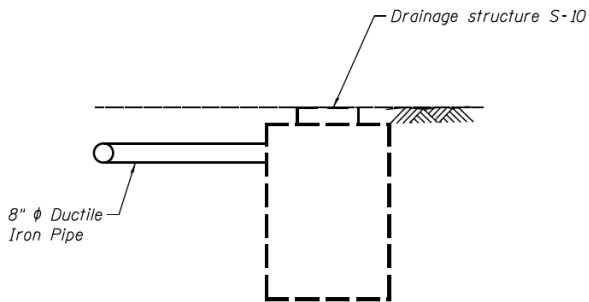


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FOR INFORMATION ONLY



PIER 14N - ELEVATION
(Looking East)



SECTION K-K

- Notes:
- 1. Drainage system shall connect to an proposed drainage structure. See drainage schedule for stationing and offsets of proposed drainage structure.
 - 2. Contractor shall field verify existing scuppers, pipes and drainage structures prior to any shop drawings submittal.

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - HA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE SYSTEM DETAILS – PIER 14N STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - HA	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	357
	PLOT SCALE = N.T.S.	DRAWN - DE	REVISED -			CONTRACT NO. 60X78				
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -			ILLINOIS FED. AID PROJECT				
SHEET NO. S2-80 OF S2-145 SHEETS										

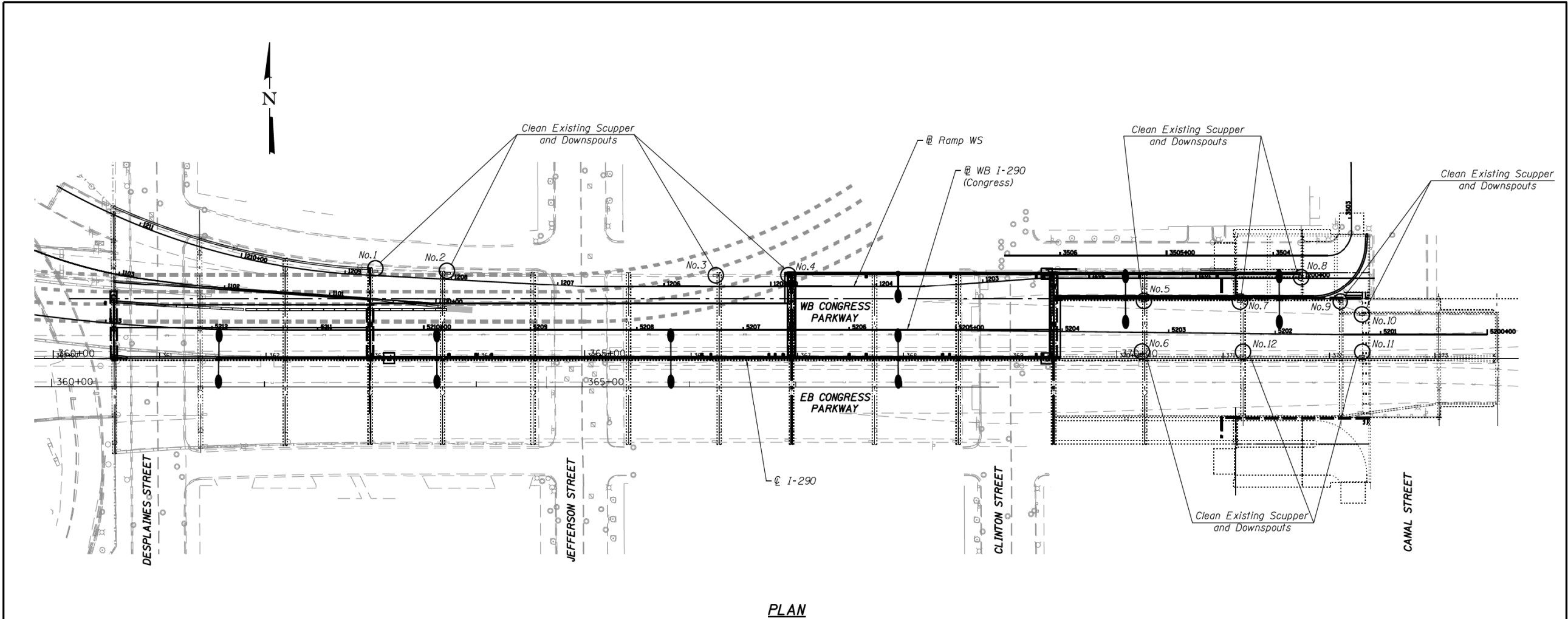
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USER NAME = ahmad,issa	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = N.T.S	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1722
CONTRACT NO. 60X93				
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



BBRIDGE SCUPPER STATION/OFFSET

Scupper No.	Station	Offset
1	363+03.48	82.50' Lt.
2	363+71.56	80.58' Lt.
3	366+23.18	78.55' Lt.
4	366+91.37	78.77' Lt.
5	370+25.75	54.03' Lt.
6	370+2.87	2.86' Lt.
7	371+15.93	53.39' Lt.
8	371+72.86	76.23' Lt.
9	372+10.56	53.53' Lt.
10	372+31.51	41.33' Lt.
11	372+31.45	2.02' Lt.
12	371+18.22	2.73' Lt.

Note:
1. Bridge scupper Station/Offset are measured along CL I-290.

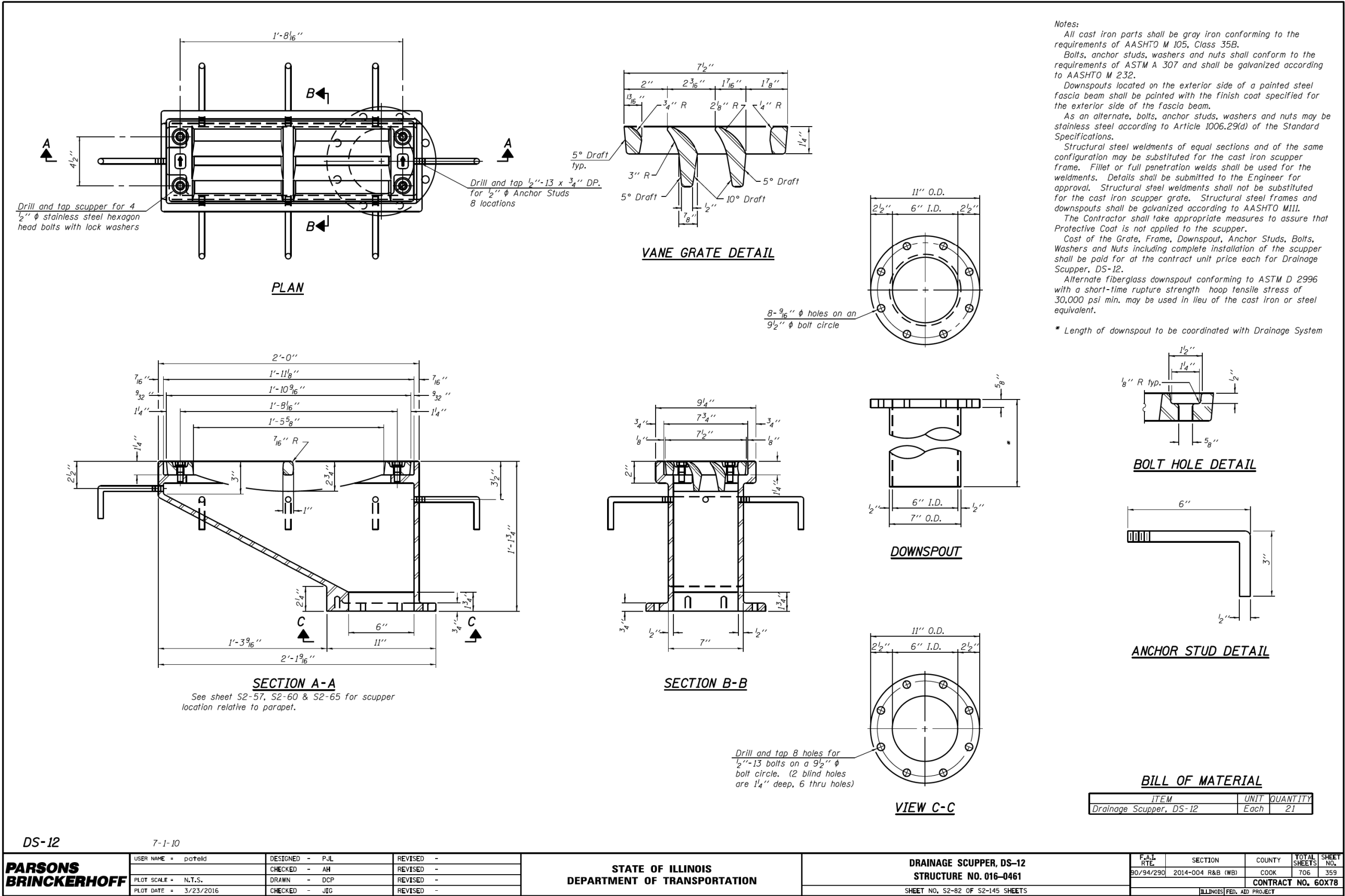
BILL OF MATERIAL

Item	Unit	Quantity
Cleaning Bridge Scuppers and Downspouts	Each	12

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	358
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	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -			ILLINOIS FED. AID PROJECT				
	SHEET NO. S2-81 OF S2-145 SHEETS									

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N.T.S	CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1723
	PLOT DATE = 7/26/2018	DRAWN - MI, MAI	REVISED -			CONTRACT NO. 60X93				
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				

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FILE NAME: dw\3\6174-9-PWINT-aecomonline\local\AECOM_DS02_NA\Documents\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing146



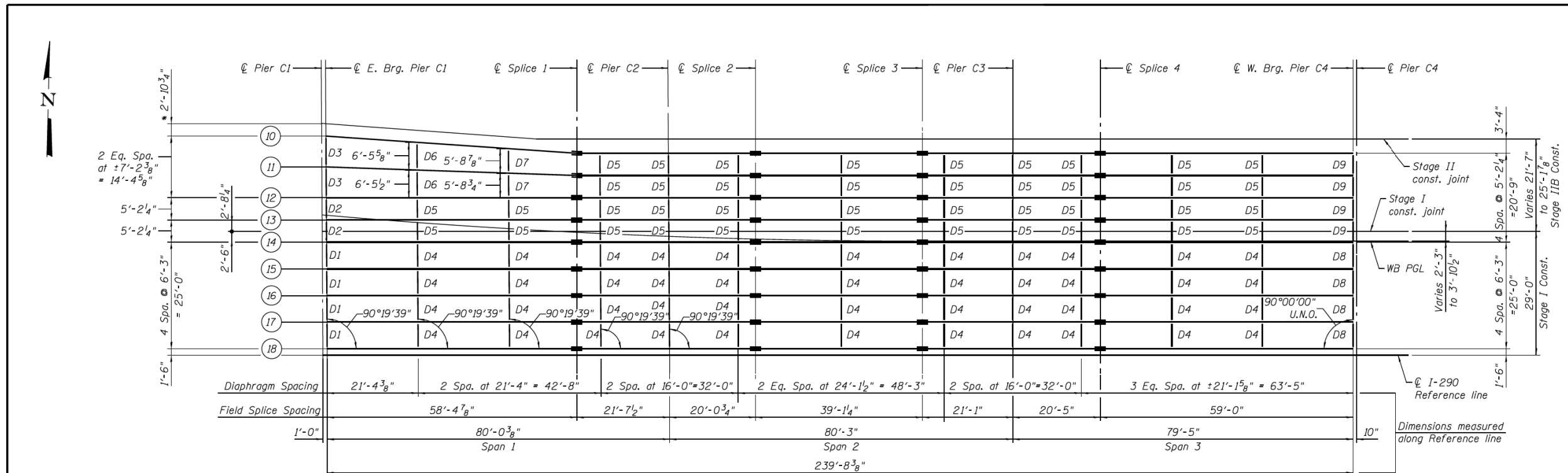
USER NAME =	ahmad,issa	DESIGNED -	PJL	REVISED -	
		CHECKED -	AH	REVISED -	
PLOT SCALE =	N.T.S	DRAWN -	DCP	REVISED -	
PLOT DATE =	7/26/2018	CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

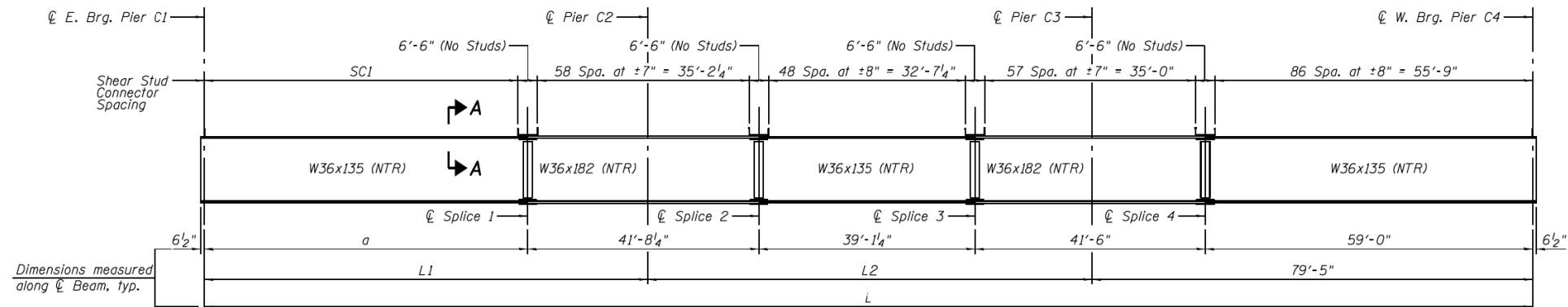
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90/94/290	2014-013R&B-R	COOK	1972	1724
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



* Dimension shown at
℄ E. Brg. Pier C1

FRAMING PLAN - UNIT I



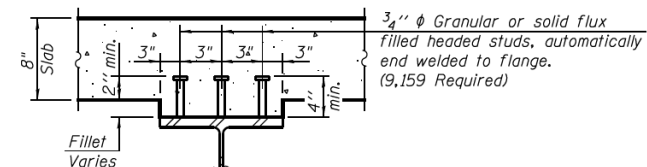
BEAM ELEVATION

BEAM DIMENSIONS

Beam	L	L1	L2	a
10	240'-1 5/8"	80'-2 3/8"	80'-5 1/4"	58'-10 1/8"
11	239'-11 1/8"	80'-1"	80'-5 1/8"	58'-8 3/8"
12	239'-10 7/8"	80'-0 3/8"	80'-5 1/2"	58'-7 3/8"
13	239'-10 1/2"	80'-0 3/8"	80'-5 1/8"	58'-7"
14	239'-10 1/4"	80'-0 3/8"	80'-4 7/8"	58'-6 3/4"
15	239'-9 3/4"	80'-0 3/8"	80'-4 3/8"	58'-6 1/4"
16	239'-9 3/8"	80'-0 3/8"	80'-4"	58'-5 1/8"
17	239'-8 7/8"	80'-0 3/8"	80'-3 1/2"	58'-5 3/8"
18	239'-8 1/2"	80'-0 3/8"	80'-3 1/8"	58'-5"

STUD SHEAR CONNECTOR SPACING

Beam	SC1
10	86 Spa. at ±8" = 55'-7 1/8"
11	86 Spa. at ±8" = 52'-2 3/8"
12	85 Spa. at ±8" = 52'-1 3/8"
13	85 Spa. at ±8" = 52'-1"
14	85 Spa. at ±8" = 52'-0 3/4"
15	85 Spa. at ±8" = 52'-0 1/4"
16	85 Spa. at ±8" = 51'-11 1/8"
17	85 Spa. at ±8" = 51'-11 3/8"
18	85 Spa. at ±8" = 55'-2"



SECTION A-A

Notes:

See sheet S2-84 for moment tables and reaction tables.
See sheet S2-85 for bolted field splice details and diaphragms details.

All beams and splice plates shall be AASHTO M270 Grade 50.
All diaphragms, angles, fill plates and connecting plates shall be AASHTO M270, Grade 50.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

All structural steel shall be hot dipped galvanized. Cost included with Furnishing and Erecting Structural Steel.

PARSONS
BRINCKERHOFF

USER NAME = poteld
PLOT SCALE = N.T.S.
PLOT DATE = 3/23/2016

DESIGNED - LFC
CHECKED - P.J.L.
DRAWN - LFC
CHECKED - JIG

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN - UNIT I
STRUCTURE NO. 016-0461

SHEET NO. S2-83 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	360
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

USER NAME = ahmad,issa
PLOT SCALE = N.T.S.
PLOT DATE = 7/26/2018

DESIGNED -
CHECKED -
DRAWN -
CHECKED - MI, MAI

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1725
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

INTERIOR BEAM MOMENT TABLE - UNIT 1						
		0.4 Sp. 1	Pier C2	0.5 Sp. 2	Pier C3	0.6 Sp. 3
I_s	(in ⁴)	7,800	11,300	7,800	11,300	7,800
$I_c(n)$	(in ⁴)	22,815	-	22,815	-	22,815
$I_c(3n)$	(in ⁴)	16,546	-	16,546	-	16,546
$I_c(cr)$	(in ⁴)	-	14,579	-	14,579	-
S_s	(in ³)	439	623	439	623	439
$S_c(n)$	(in ³)	686	-	686	-	686
$S_c(3n)$	(in ³)	615	-	615	-	615
$S_c(cr)$	(in ³)	-	707	-	707	-
DC1	(k/')	0.80	0.85	0.80	0.85	0.80
M _{DC1}	('k)	388	560	102	564	380
DC2	(k/')	0.13	0.13	0.06	0.06	0.06
M _{DC2}	('k)	69	73	-2	36	34
DW	(k/')	0.13	0.14	0.14	0.14	0.14
M _{DW}	('k)	68	92	18	93	67
M _{ℓ + IM}	('k)	838	902	694	903	826
M _u (Strength I)	('k)	2,140	2,508	1,367	2,469	2,064
φ _r M _n	('k)	3,333	3,624	3,473	3,624	3,346
f _s DC1	(ksi)	10.6	10.8	2.8	10.9	10.4
f _s DC2	(ksi)	1.3	1.2	0.0	0.6	0.7
f _s DW	(ksi)	1.3	1.6	0.4	1.6	1.3
f _s (ℓ+IM)	(ksi)	14.7	15.3	12.1	15.3	14.4
f _s (Service II)	(ksi)	32.3	33.5	18.9	33.0	31.2
0.95R _h F _{yf}	(ksi)	47.5	47.5	47.5	47.5	47.5
f _s (Total)(Strength I)	(ksi)	42.6	44.3	25.4	43.7	41.1
φ _r F _n	(ksi)	-	-	-	-	-
V _r	(k)	29.7	32.6	26.5	32.2	27.7

INTERIOR BEAM REACTION TABLE - UNIT 1					
	Pier C1	Pier C2	Pier C3	Pier C4	
R_{DC1}	(k)	25.6	73.1	73.2	25.5
R_{DC2}	(k)	4.2	9.2	5.1	2.1
R_{DW}	(k)	4.3	12.1	12.1	4.3
$R_4 + IM$	(k)	84.0	136.4	136.7	83.7
R_{Total}	(k)	118.2	230.8	227.0	115.6

TOP OF BEAM ELEVATIONS
(For fabrication only)

	Beam 10	Beam 11	Beam 12	Beam 13	Beam 14	Beam 15	Beam 16	Beam 17	Beam 18
℄ E. Brg. Pier C1	607.88	608.20	608.53	608.76	608.99	609.27	609.55	609.83	610.11
℄ Splice 1	608.58	608.81	609.04	609.27	609.50	609.78	610.06	610.34	610.61
℄ Pier C2	608.66	608.89	609.12	609.35	609.58	609.86	610.14	610.41	610.69
℄ Splice 2	608.74	608.97	609.20	609.43	609.66	609.93	610.21	610.49	610.76
℄ Splice 3	609.48	609.63	609.76	609.89	610.03	610.21	610.39	610.58	610.76
℄ Pier C3	609.80	609.93	610.05	610.17	610.29	610.44	610.58	610.73	610.87
℄ Splice 4	610.12	610.23	610.34	610.44	610.55	610.66	610.77	610.87	610.98
℄ W. Brg. Pier C4	610.62	610.73	610.83	610.94	611.04	611.12	611.20	611.29	611.37

I_s , S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_ℓ + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).

1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_ℓ + IM

φ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

M_{DC2} / S_c(3n) or M_{DC2} / S_c(cr) as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

M_{DW} / S_c(3n) or M_{DW} / S_c(cr) as applicable.

f_s (ℓ+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

M_ℓ + IM / S_c(n) or M_ℓ + IM / S_c(cr) as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).

f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (ℓ + IM)

0.95R_hF_{yf}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (ℓ + IM)

φ_rF_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_r: Maximum factored shear range in span computed according to Article 6.10.10.



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USER NAME = pnteld	DESIGNED - LFC	REVISED -
PLOT SCALE = N.T.S.	CHECKED - P.JL	REVISED -
PLOT DATE = 4/25/2016	DRAWN - LFC	REVISED -
	CHECKED - JTG	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STEEL DETAILS 1 - UNIT 1 STRUCTURE NO. 016-0461
SHEET NO. S2-84 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	361
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				



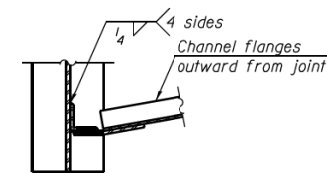
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

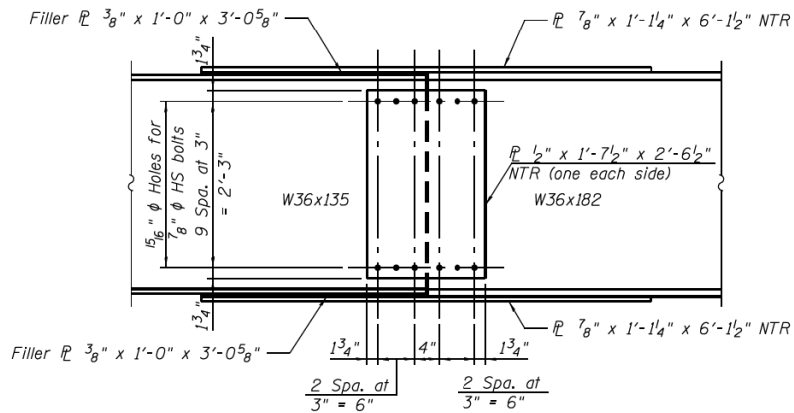
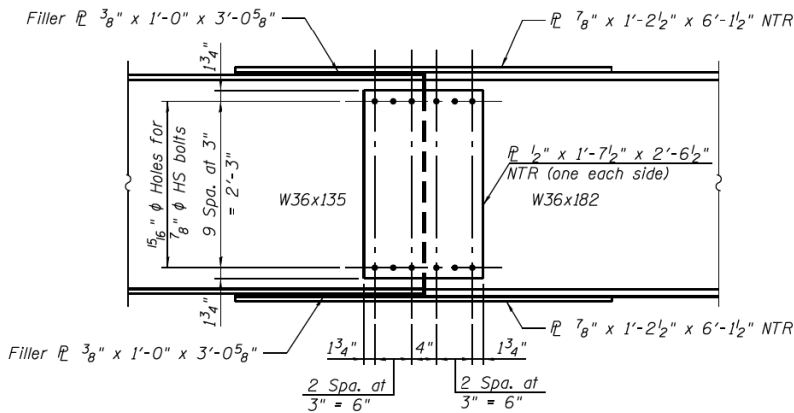
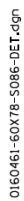
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90/94/290	2014-013R&B-R	COOK	1972	1726
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1727
		CONTRACT NO. 60X93		
ILLINOIS		FED. AID PROJECT		

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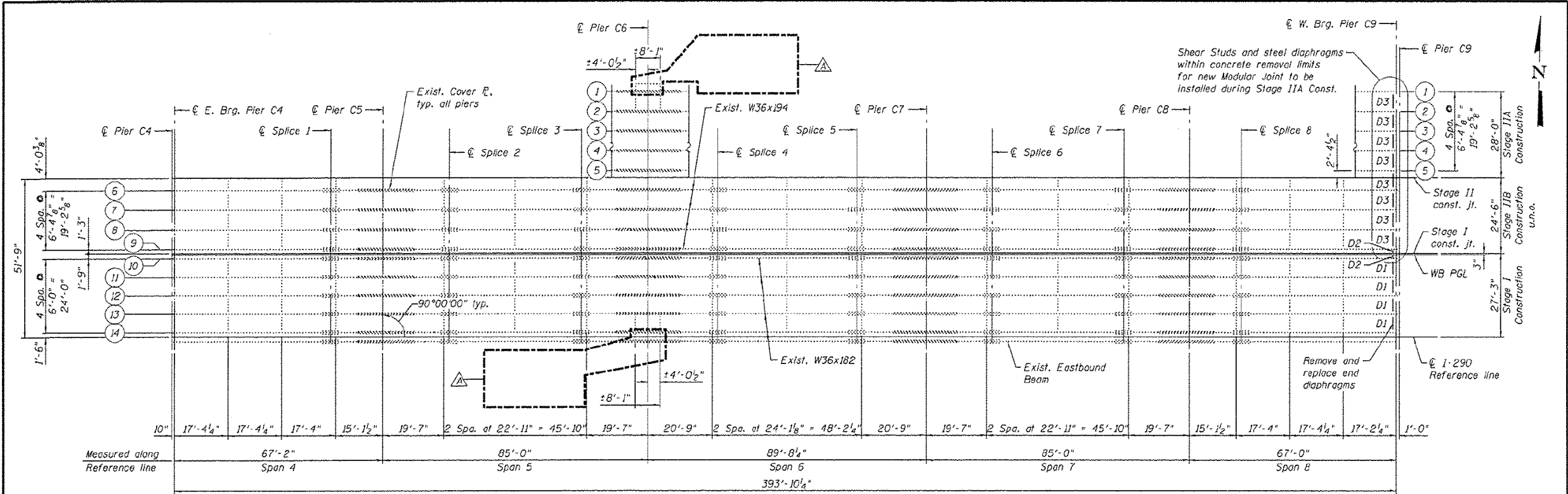


Note:
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

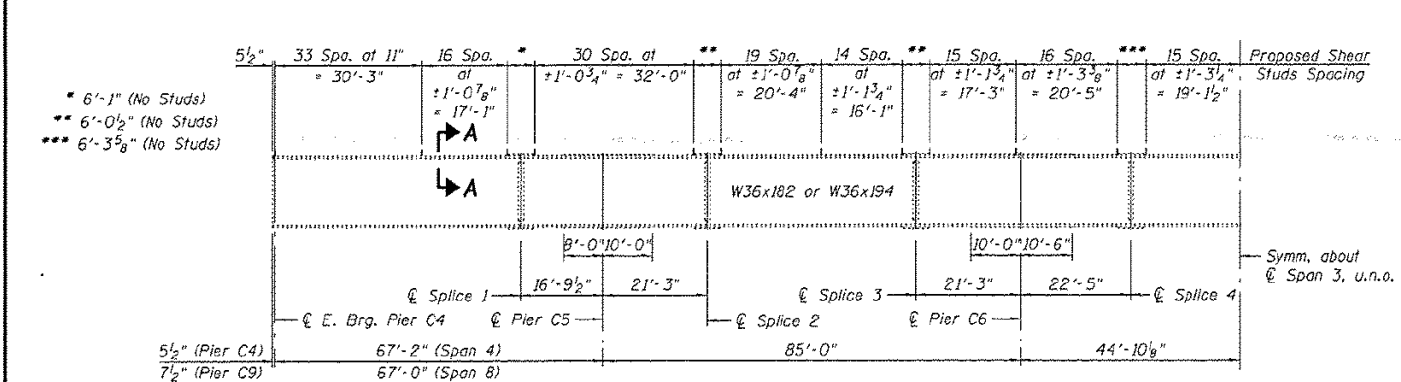
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	PLOT SCALE = N.T.S.	DRAWN = LFC	REVISED =			CONTRACT NO. 60X78					
	PLOT DATE = 3/23/2016	CHECKED = JIG	REVISED =			SHEET NO. S2-86 OF S2-145 SHEETS					
						ILLINOIS FED. AID PROJECT					

USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1728	
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PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -			ILLINOIS FED. AID PROJECT					

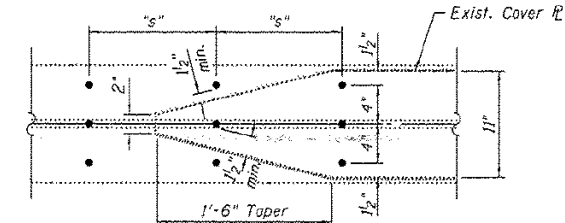
FOR INFORMATION ONLY



EXISTING FRAMING PLAN - UNIT II

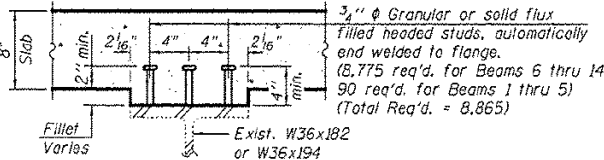


EXISTING BEAM ELEVATION - UNIT II



SHEAR STUDS AT ENDS OF COVER PLATE

Shear connector spacing, "s", may be adjusted up to 3" to maintain minimum clearances.



SECTION A-A

Notes:
For top of existing beam elevations and notes and tables, see sheet S2-88.
For diaphragm replacement details, see sheet S2-93.

PARSONS BRINCKERHOFF	USER NAME * potfoid	DESIGNED - JIL	REVISED - 4/27/2016 JIG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN – UNIT II STRUCTURE NO. 016-0461	F.A.I. RTE. 90/94/290	SECTION 2014-004 R&B (WB)	COUNTY COOK	TOTAL SHEETS 706	SHEET NO. 364
		CHECKED - P.JL	REVISED -							
	PLOT SCALE * N.T.S.	DRAWN - JIL	REVISED -							
	PLOT DATE * 5/16/2016	CHECKED - JIG	REVISED -							
					SHEET NO. S2-87 OF S2-145 SHEETS	ILLINOIS FED. AID PROJECT				
						CONTRACT NO. 60X78				

FILE NAME: DWG1617479-PWINT-aecomonline.local\AECOM_D502_NA\Documents\01_Americas\Transportation\60269938_CirclePhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing151



USER NAME =	ahmad,issa	DESIGNED -	JIL	REVISED -	
		CHECKED -	P.JL	REVISED -	
PLOT SCALE =	N.T.S.	DRAWN -	JIL	REVISED -	
PLOT DATE =	7/26/2018	CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE. 90/94/290	SECTION 2014-013R&B-R	COUNTY COOK	TOTAL SHEETS 1972	SHEET NO. 1729
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

INTERIOR BEAM MOMENT TABLE						
		0.4 Sp. 4 or 0.6 Sp. 8	Pier C5 or Pier C8	0.5 Sp. 5 or 0.5 Sp. 7	Pier C6 or Pier C7	0.5 Sp. 6
I_s	(in ⁴)	12100	15865	12100	16838	12100
$I_c(n)$	(in ⁴)	30740	19320	30740	20304	30740
$I_c(3n)$	(in ⁴)	21792	19320	21792	20304	21792
S_s	(in ³)	664	846	664	892	664
$S_c(n)$	(in ³)	977	1157	977	1201	977
$S_c(3n)$	(in ³)	866	1157	866	1201	866
$\bar{\rho}$	(k/')	0.879	0.920	0.879	0.931	0.879
$M \bar{\rho}$	('k)	268	523	237	598	290
$s \bar{\rho}$	(k/')	0.230	0.230	0.230	0.230	0.230
$M_s \bar{\rho}$	('k)	70	135	63	155	77
M_L	('k)	435	416	450	479	475
M_{Iu}	('k)	113	103	107	113	111
$S_3 [M_L + I]$	('k)	913	865	928	987	977
M_d	('k)	1627	1980	1597	2262	1747
M_u	('k)	2829		3455		3455
$f_s \bar{\rho}$ non-comp	(ksi)	4.8	7.4	4.3	8.0	5.2
$f_s \bar{\rho}$ (comp)	(ksi)	1.0	1.4	0.9	1.5	1.1
$f_s S_3 [M_L + M_I]$	(ksi)	11.2	9.0	11.4	9.9	12.0
f_s (Overload)	(ksi)	17.0	17.8	16.6	19.4	18.3
f_s (Total)	(ksi)		23.1		25.2	
VR	(k)	54.5	58.7	41.9	57.2	41.9

* Compact section
** Braced non-compact and partially braced section

INTERIOR BEAM REACTION TABLE					
		Pier C4 & C9	Pier C5 & C8	Pier C6	Pier C7
$R \bar{\rho}$	(k)	28.3	94.0	106.6	99.4
$R \frac{1}{2}$	(k)	45.4	59.0	62.4	62.4
R_I	(k)	11.8	14.7	14.7	14.7
R_{Total}	(k)	85.6	167.7	183.7	176.5

TOP OF EXISTING BEAM ELEVATION ***

	Beam 6	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11	Beam 12	Beam 13	Beam 14
⊕ E. Brg. Pier C4	610.67	610.80	610.93	611.03	611.08	611.15	611.23	611.31	611.39
⊕ Splice 1	611.11	611.24	611.37	611.42	611.43	611.43	611.43	611.43	611.43
⊕ Brg. Pier C5	611.23	611.36	611.49	611.54	611.55	611.54	611.51	611.49	611.46
⊕ Splice 2	611.38	611.52	611.64	611.70	611.70	611.67	611.62	611.56	611.50
⊕ Splice 3	611.61	611.74	611.86	611.92	611.92	611.87	611.76	611.63	611.51
⊕ Brg. Pier C6	611.67	611.81	611.93	611.99	611.99	611.93	611.82	611.70	611.57
⊕ Splice 4	611.74	611.88	612.00	612.06	612.06	612.00	611.89	611.77	611.64
⊕ Splice 5	611.79	611.92	612.04	612.10	612.10	612.05	611.94	611.81	611.69
⊕ Brg. Pier C7	611.76	611.89	612.02	612.07	612.07	612.02	611.91	611.79	611.66
⊕ Splice 6	611.74	611.87	611.99	612.05	612.05	612.00	611.89	611.76	611.64
⊕ Splice 7	611.61	611.74	611.86	611.92	611.92	611.87	611.76	611.63	611.51
⊕ Brg. Pier C8	611.53	611.66	611.79	611.84	611.84	611.79	611.68	611.56	611.43
⊕ Splice 8	611.47	611.61	611.73	611.79	611.79	611.73	611.62	611.50	611.37
⊕ W. Brg. Pier C9	611.40	611.53	611.66	611.71	611.71	611.66	611.55	611.43	611.30

TOP OF EXISTING BEAM ELEVATION (STAGE IIA) ***

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
⊕ W. Brg. Pier C9	610.73	610.87	611.00	611.13	611.27

*** Elevations have been converted from the City of Chicago Datum on the original construction plans dated June 26, 1950 to the current NAVD 88 datum using a conversion of 579.19 feet.

FOR INFORMATION ONLY

PARSONS
BRINCKERHOFF

USER NAME =	pateld	DESIGNED -	IJL	REVISED -	
		CHECKED -	PJL	REVISED -	
PLOT SCALE =	N.T.S.	DRAWN -	IJL	REVISED -	
PLOT DATE =	3/23/2016	CHECKED -	JIG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STEEL DETAILS I – UNIT II
STRUCTURE NO. 016-0461

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	365
				CONTRACT NO. 60X78
ILLINOIS FED. AID PROJECT				

SHEET NO. S2-88 OF S2-145 SHEETS

HBM
ENGINEERING GROUP, LLC

USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
		CHECKED -		REVISED -	
PLOT SCALE =	N.T.S	DRAWN -		REVISED -	
PLOT DATE =	7/26/2018	CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1730
				CONTRACT NO. 60X93
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

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	PLOT SCALE = N.T.S.	CHECKED - JIG	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	366
	PLOT DATE = 5/16/2016	DRAWN - PJL	REVISED -			CONTRACT NO. 60X78				
		CHECKED - JIG	REVISED -			ILLINOIS FED. AID PROJECT				

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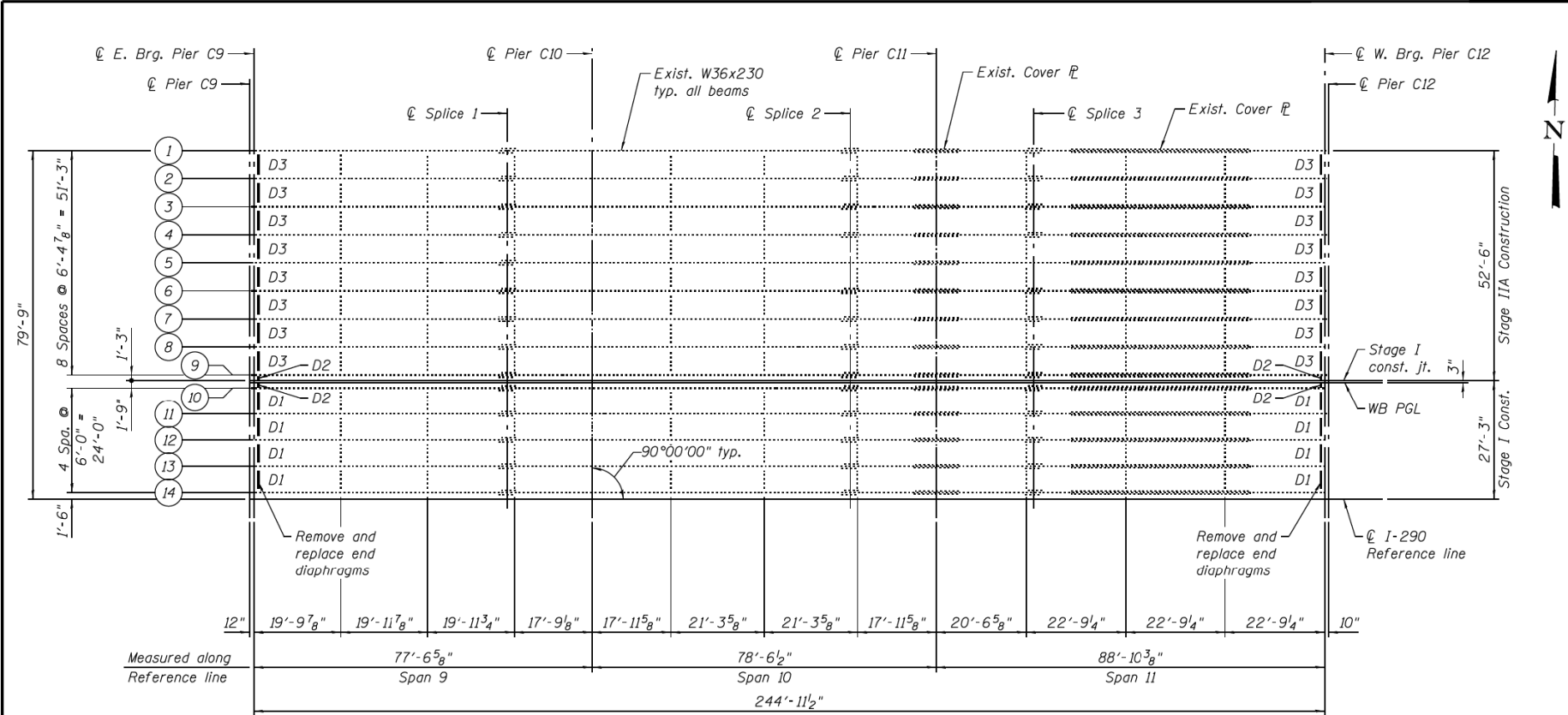
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

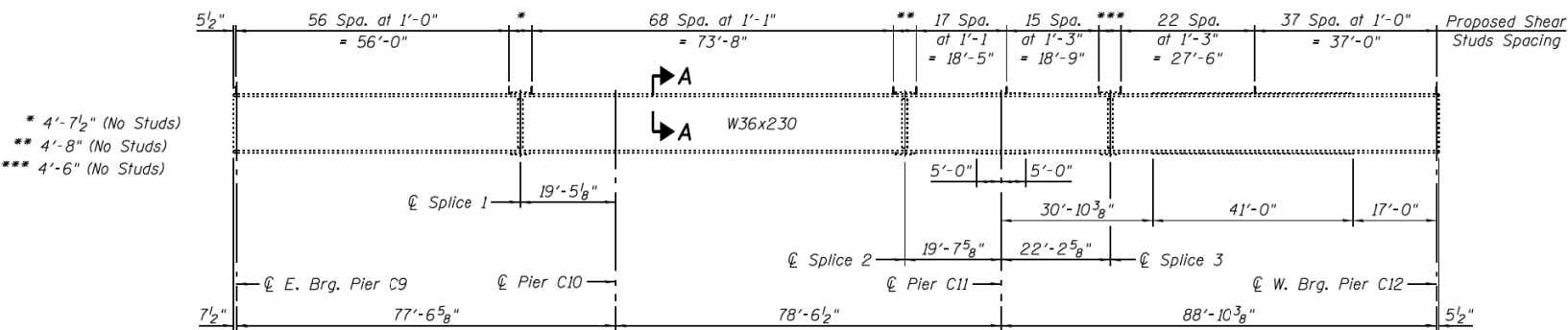
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1731
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

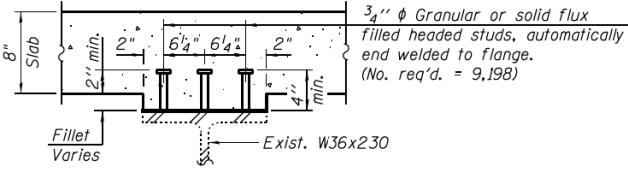
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EXISTING FRAMING PLAN - UNIT III



EXISTING BEAM ELEVATION - UNIT III



SECTION A-A

Notes:
For minimum clearances of shear studs at ends of cover plates, see sheet S2-87.
For interior beam moment table and reactions, see sheet S2-91.
For diaphragm replacement details, see sheet S2-93.

PARSONS
BRINCKERHOFF

USER NAME = poteld	DESIGNED - IJL	REVISED -
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PLOT SCALE = N.T.S.	DRAWN - IJL	REVISED -
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN - UNIT III
STRUCTURE NO. 016-0461

SHEET NO. S2-90 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	367
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

USER NAME = ahmad,issa	DESIGNED -	REVISED -
CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN - MI, MAI	REVISED -
PLOT DATE = 7/26/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1732
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

INTERIOR BEAM MOMENT TABLE						
		0.4 Sp. 9	Pier C10	0.5 Sp. 10	Pier C11	0.6 Sp. 11
I_s	(in ⁴)	15000	15000	15000	21254	21254
$I_c(n)$	(in ⁴)	34857	18370	34857	24686	43499
$I_c(3n)$	(in ⁴)	24894	18370	24894	24686	31714
S_s	(in ³)	837	837	837	1144	1144
$S_c(n)$	(in ³)	1162	1155	1162	1456	1492
$S_c(3n)$	(in ³)	1038	1155	1038	1456	1346
ϕ	(k/')	0.928	0.928	0.928	0.998	0.998
$M \phi$	('k)	461	530	107	687	654
$s \phi$	(k/')	0.230	0.230	0.230	0.230	0.230
$M_s \phi$	('k)	113	133	26	169	151
M_L	('k)	518	410	430	466	614
M_{IM}	('k)	128	101	105	112	143
$S_s [M_L + I]$	('k)	1077	852	892	963	1262
M_o	('k)	2146	1969	1332	2365	2687
M_u	('k)	3309		3883		4424
$f_s \phi$ non-comp	(ksi)	6.6	7.6	1.5	7.2	6.9
$f_s \phi$ (comp)	(ksi)	1.3	1.4	0.3	1.4	1.3
$f_s S_s [M_L + M_I]$	(ksi)	11.1	8.9	9.2	7.9	10.1
f_s (Overload)	(ksi)	19.0	17.9	11.0	16.5	18.3
f_s (Total)	(ksi)		23.3		21.5	
VR	(k)	53.1	59.3	41.8	58.2	53.1

* Compact section
** Braced non-compact and partially braced section

INTERIOR BEAM REACTION TABLE					
		Pier C9	Pier C10	Pier C11	Pier C12
$R \phi$	(k)	37.3	96.5	110.8	44.6
R_L	(k)	46.4	59.3	62.9	47.4
R_I	(k)	11.5	14.6	15.1	11.1
R_{Total}	(k)	95.2	170.4	188.8	103.1

TOP EXISTING BEAM ELEVATION ***

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11	Beam 12	Beam 13	Beam 14
C E. Brg. Pier C9	610.72	610.86	610.99	611.12	611.26	611.39	611.52	611.65	611.71	611.71	611.65	611.54	611.42	611.29
C Splice 1	610.41	610.55	610.68	610.81	610.95	611.08	611.22	611.34	611.40	611.40	611.34	611.23	611.01	610.98
C Brg. Pier C10	610.34	610.48	610.61	610.74	610.88	611.01	611.14	611.27	611.33	611.33	611.27	611.16	611.04	610.91
C Splice 2	610.13	610.26	610.40	610.53	610.66	610.80	610.93	611.05	611.11	611.11	611.06	610.95	610.82	610.70
C Brg. Pier C11	610.05	610.19	610.32	610.45	610.59	610.72	610.85	610.98	611.04	611.04	610.99	610.87	610.75	610.62
C Splice 3	609.97	610.10	610.24	610.37	610.50	610.64	610.77	610.89	610.95	610.95	610.90	610.79	610.66	610.54
C W. Brg. Pier C12	609.81	609.94	610.07	610.21	610.34	610.47	610.61	610.73	610.79	610.79	610.74	610.62	610.50	610.37

*** Elevations have been converted from the City of Chicago Datum on the original construction plans dated June 26, 1950 to the current NAVD 88 datum using a conversion of 579.19 feet.

FOR INFORMATION ONLY

PARSONS
BRINCKERHOFF

USER NAME = poteld	DESIGNED - IJL	REVISED -
	CHECKED - PJJL	REVISED -
PLOT SCALE = N.T.S.	DRAWN - IJL	REVISED -
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STEEL DETAILS – UNIT III
STRUCTURE NO. 016-0461

SHEET NO. S2-91 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	368
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

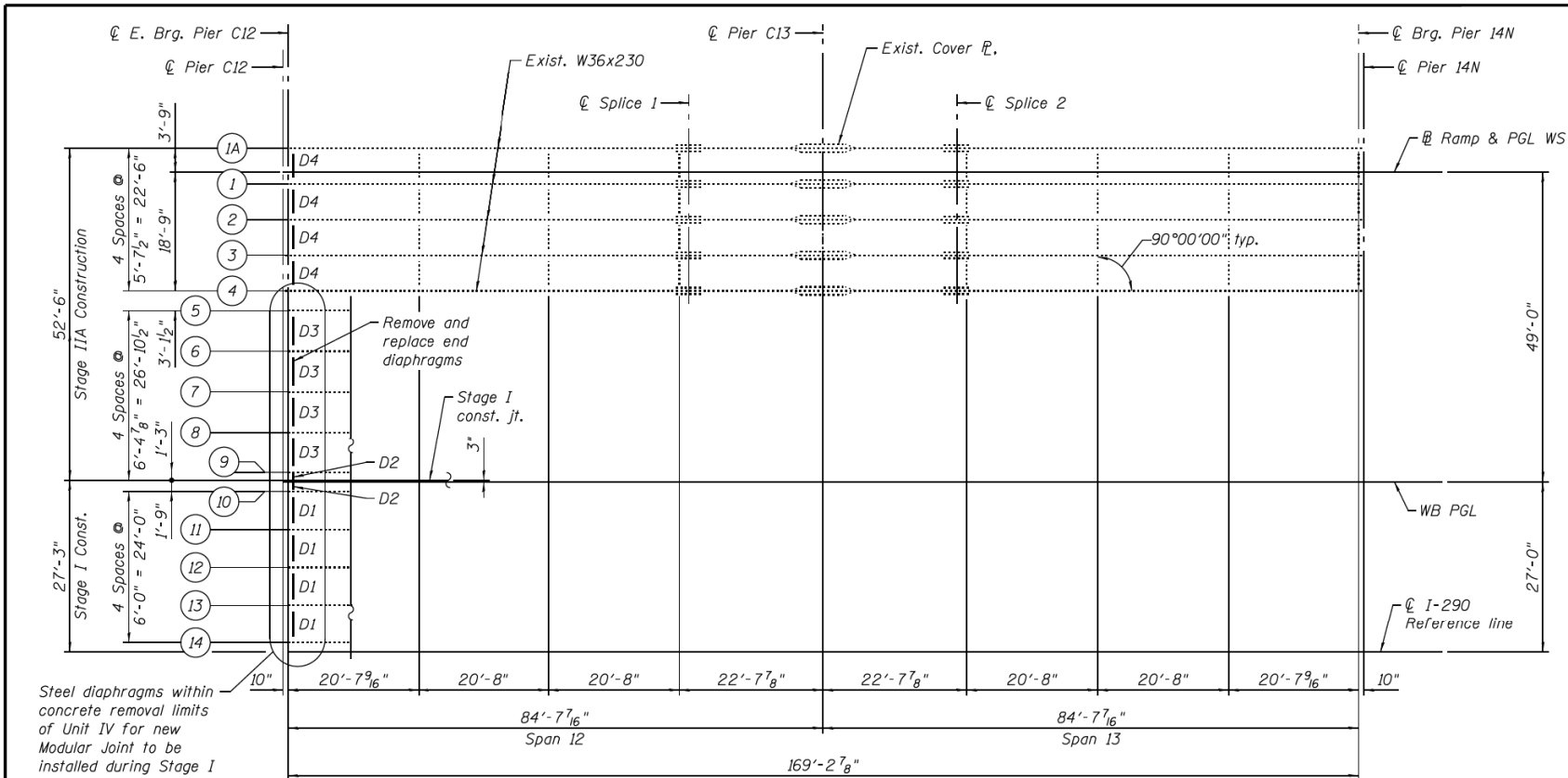
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PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

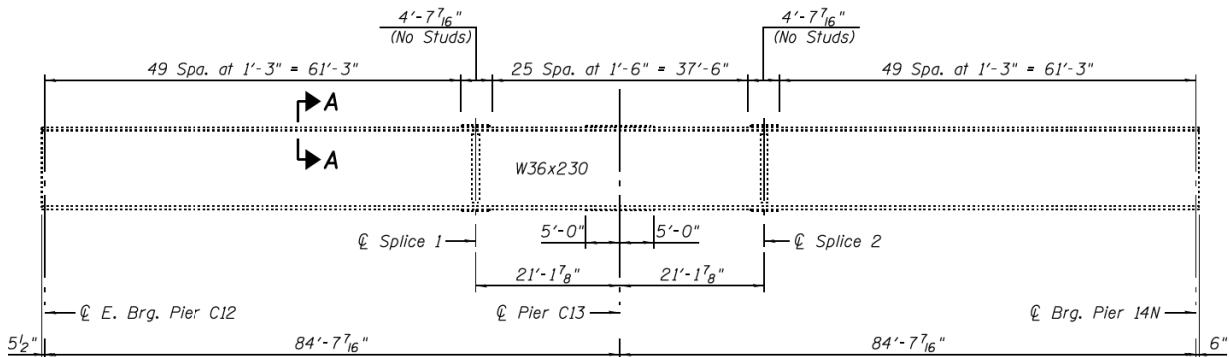
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1733
CONTRACT NO. 60X93				
			ILLINOIS	FED. AID PROJECT

FOR INFORMATION ONLY



EXISTING FRAMING PLAN - ENTRANCE RAMP

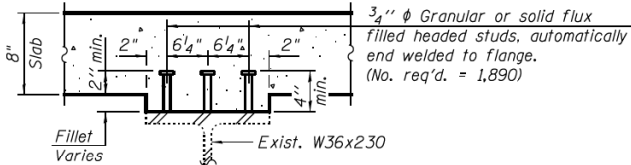


EXISTING BEAM ELEVATION - ENTRANCE RAMP

TOP EXISTING BEAM ELEVATION
(For information only)

	Beam 1A	Beam 1	Beam 2	Beam 3	Beam 4
℄ E. Brg. Pier C12	609.80	609.92	610.03	610.15	610.27
℄ Splice 1	607.76	607.87	607.99	608.11	608.23
℄ Brg. Pier C13	606.77	606.88	607.00	607.12	607.24
℄ Splice 2	605.78	605.89	606.01	606.13	606.24
℄ Brg. Pier 14N	602.90	603.02	603.14	603.26	603.38

*** Elevations have been converted from the City of Chicago Datum on the original construction plans dated June 26, 1950 to the current NAVD 88 datum using a conversion of 579.19 feet.



SECTION A-A

INTERIOR BEAM MOMENT TABLE		
	0.4 Sp. 12 or 0.6 Sp. 13	Pier C13
I_s	(in ⁴)	15000
$I_c(n)$	(in ⁴)	33553
$I_c(3n)$	(in ⁴)	23960
S_s	(in ³)	837
$S_c(n)$	(in ³)	1149
$S_c(3n)$	(in ³)	1023
ϕ	(k/')	0.850
$M\phi$	(k)	416
$s\phi$	(k/')	0.340
$M_s\phi$	(k)	166
M_L	(k)	510
M_{Iu}	(k)	122
M_u	(k)	1053
M_a	(k)	2126
M_u	(k)	3326
$f_s\phi$ non-comp	(ksi)	6.0
$f_s\phi$ (comp)	(ksi)	1.9
$f_s\phi$ [M _u + M _I]	(ksi)	11.0
f_s (Overload)	(ksi)	18.9
f_s (Total)	(ksi)	24.6
VR	(k)	49.5

* Compact section
** Braced non-compact and partially braced section

INTERIOR BEAM REACTION TABLE		
	Pier C12 or Pier 14N	Pier C13
$R\phi$	(k)	38.1
R_L	(k)	45.5
R_I	(k)	10.9
R_{Total}	(k)	94.5

I_s , S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

Z : Plastic Section Modulus of the steel section in non-composite areas (in.³).

ϕ : Un-factored non-composite dead load (kips/ft.).

$M\phi$: Un-factored moment due to non-composite dead load (kip-ft.).

$s\phi$: Un-factored long-term composite (superimposed) dead load (kips/ft.).

$M_s\phi$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

M_L : Un-factored live load moment (kip-ft.).

M_I : Un-factored moment due to impact (kip-ft.).

M_a : Factored design moment (kip-ft.).

$1.3 [M\phi + M_s\phi + \frac{2}{3} (M_L + M_I)]$

M_u : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

f_s (Overload): Sum of stresses as computed from the moments below (ksi).

$M\phi + M_s\phi + \frac{2}{3} (M_L + M_I)$

f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).

$1.3 [M\phi + M_s\phi + \frac{2}{3} (M_L + M_I)]$

VR: Maximum ϕ + impact shear range within the composite portion of the span for stud shear connector design (kips).

Notes:
For minimum clearances of shear studs at ends of cover plates, see sheet S2-87.
For diaphragm replacement details, see sheet S2-93.

PARSONS
BRINCKERHOFF

USER NAME = poteld	DESIGNED - IJL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - P.JL	REVISED -
PLOT DATE = 3/23/2016	DRAWN - IJL	REVISED -
	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN - ENTRANCE RAMP
STRUCTURE NO. 016-0461

SHEET NO. S2-92 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	369
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

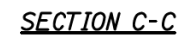
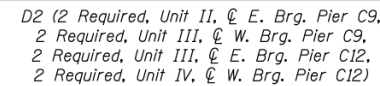
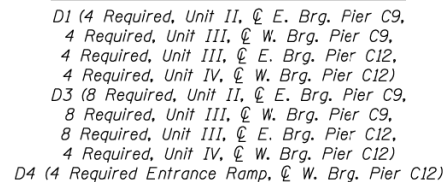
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PLOT DATE = 7/26/2018	DRAWN -	REVISED -
	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1734
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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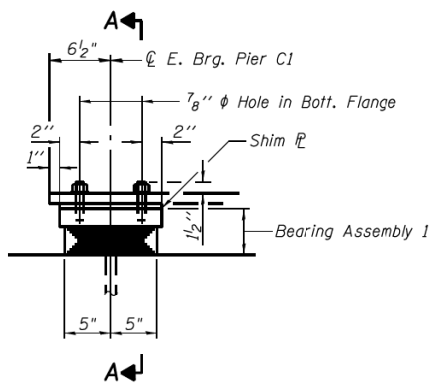
1. *All structural steel for diaphragms and brackets at Pier C9 & Pier C12 may be AASHTO M270 Grade 36 and shall be hot dipped galvanized. Cost of removal and replacement of steel diaphragms, brackets, and connections included in Structural Steel Repair.*
2. *Two hardened washers required for each set of oversized holes.*
3. *Cost of field drilling is included in Structural Steel Repair.*

Item	Unit	Total
Structural Steel Repair	Pound	18,774

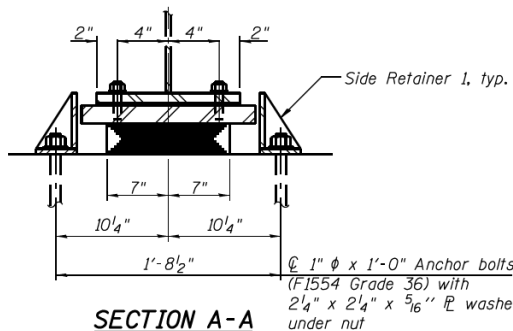
IP	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	90/94/290	2014-004 R&B (WB)	COOK	706	370
			CONTRACT NO. 60X78		
		ILLINOIS FED. AID PROJECT			

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1735
CONTRACT NO. 60X93				
ILLINOIS		FED. AID PROJECT		

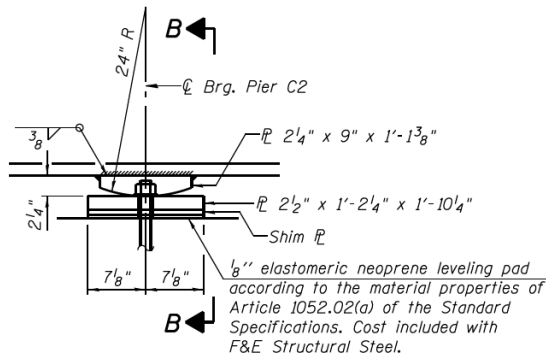
FOR INFORMATION ONLY



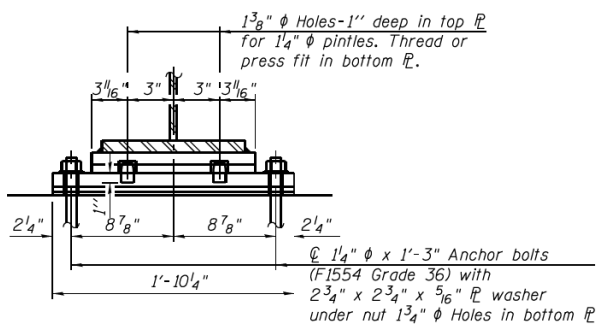
ELEVATION AT E. BRG. PIER C1



SECTION A-A



ELEVATION AT PIER C2



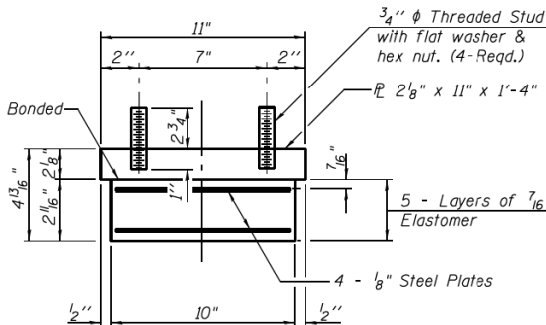
SECTION B-B

TYPE I ELASTOMERIC EXP. BRG. AT E. BRG. PIER C1

(9 Required)

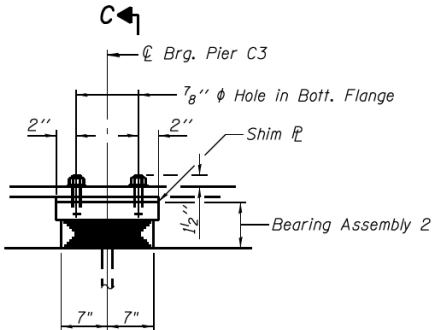
FIXED BEARING AT PIER C2

(9 Required)

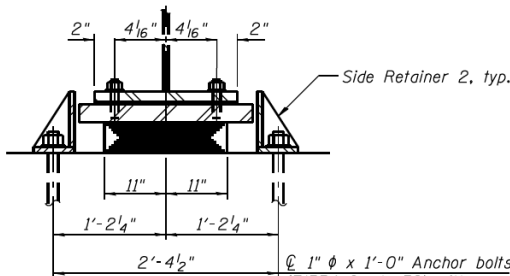


BEARING ASSEMBLY 1

Note:
Shim plates shall not be placed
under Bearing Assembly.



ELEVATION AT PIER C3



SECTION C-C

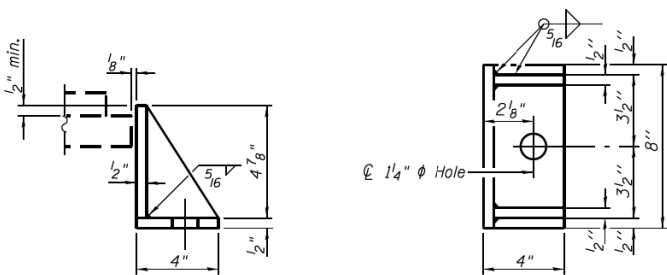
TYPE I ELASTOMERIC EXP. BRG. AT PIER C3

(9 Required)

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Fixed Bearing Assembly included in the cost of Furnishing and Erecting Structural Steel.
Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

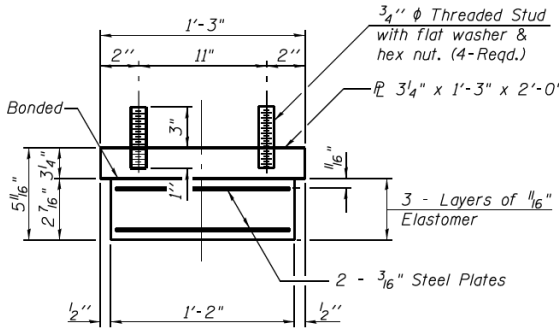
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	18
Anchor Bolts 1"	Each	36
Anchor Bolts 1 1/4"	Each	18



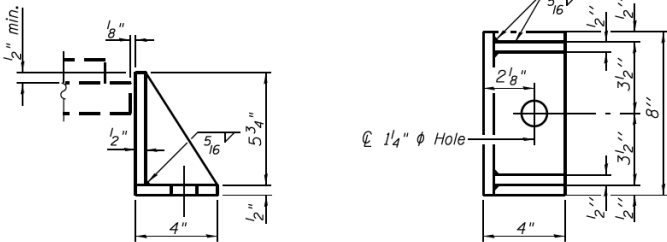
SIDE RETAINER 1

Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.



BEARING ASSEMBLY 2

Note:
Shim plates shall not be placed
under Bearing Assembly.



SIDE RETAINER 2

Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.

PARSONS
BRINCKERHOFF

USER NAME = poteld	DESIGNED - IJL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - PJJL	REVISED -
PLOT DATE = 3/23/2016	DRAWN - IJL/DCP	REVISED -
	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS I- UNIT I
STRUCTURE NO. 016-0461

SHEET NO. S2-94 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	371
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

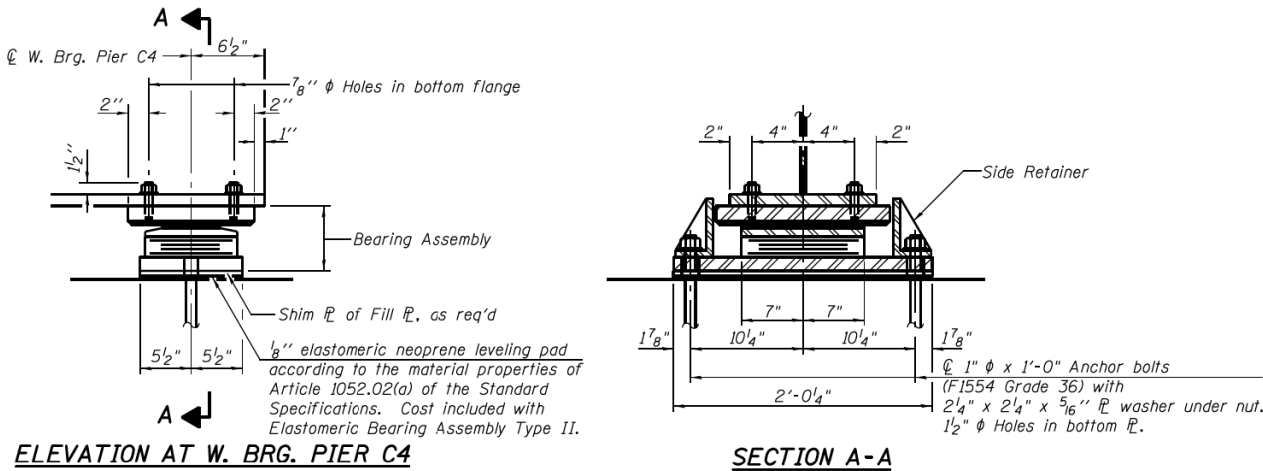
USER NAME = ahmad,issa	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = N.T.S	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1736
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

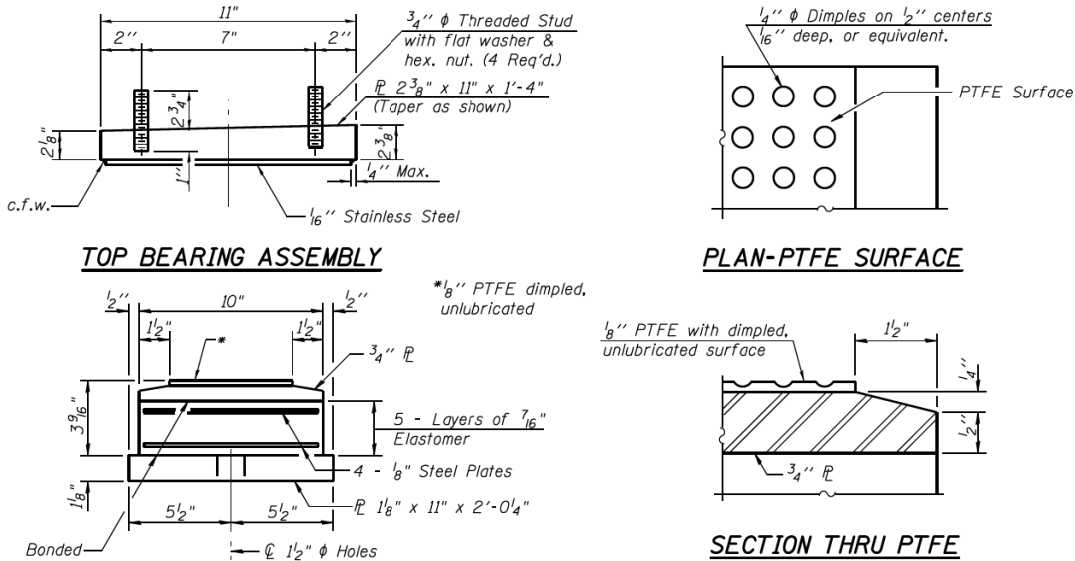
FOR INFORMATION ONLY



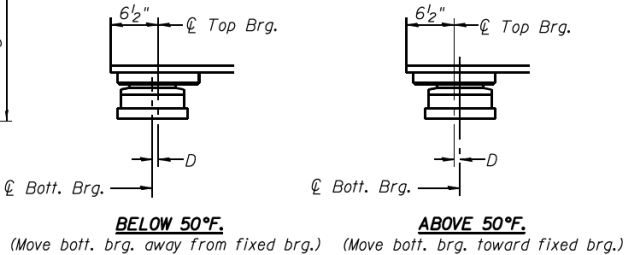
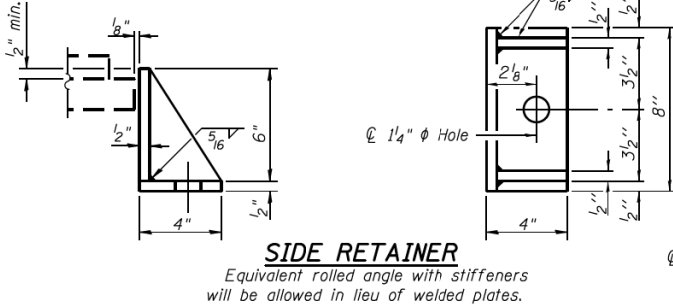
FILL PLATE THICKNESS TABLE
AT W. BRG. PIER C4

Beam No.	Thickness
15	1/2"
17	3/8"

TYPE II ELASTOMERIC EXP. BRG. AT W. BRG. PIER C4
(9 Required)



BOTTOM BEARING ASSEMBLY



Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	9
Anchor Bolts 1"	Each	18

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - IJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS II - UNIT I STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	SHEET NO.
		CHECKED - P.JL	REVISED -							
	PLOT SCALE = N.T.S.	DRAWN - IJL/DCP	REVISED -							
	PLOT DATE = 4/25/2016	CHECKED - JIG	REVISED -							
SHEET NO. S2-95 OF S2-145 SHEETS						90/94/290	2014-004 R&B (WB)	COOK	706	372
						CONTRACT NO. 60X78				
						ILLINOIS FED. AID PROJECT				

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = N.T.S	DRAWN -	REVISED -
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1737
		CONTRACT NO. 60X93		
ILLINOIS		FED. AID PROJECT		

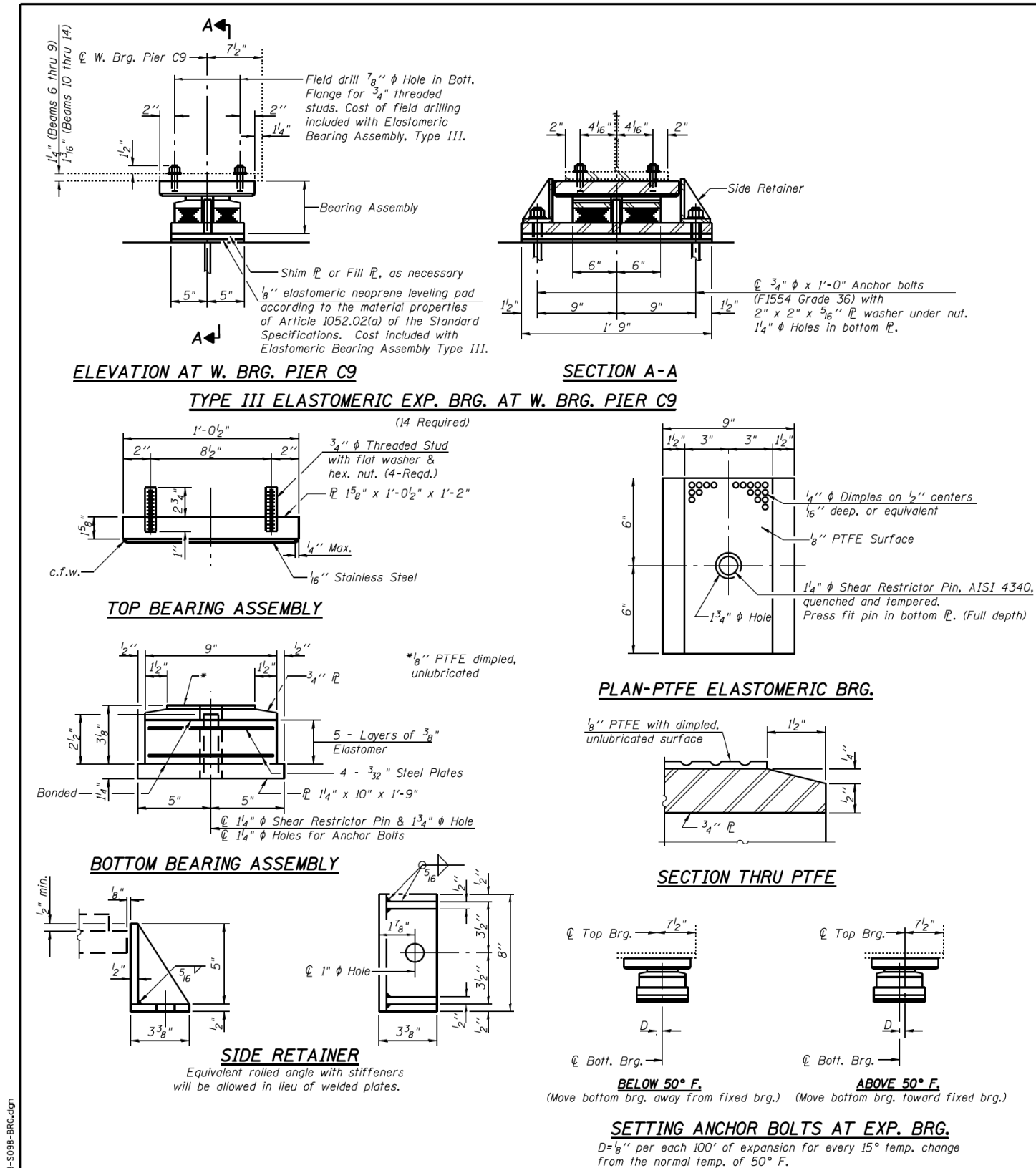
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FILE NAME: pw:\617479-PWINT.aecomonline.local\AECOM_D502_NAI\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing_162



FOR INFORMATION ONLY



Notes:

For bearing removal details and quantity, see sheet S2-96.

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Elastomeric Bearing Assembly, Type III.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for Type III bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

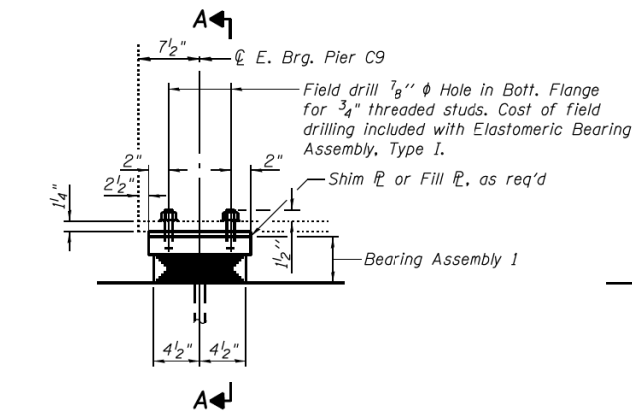
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type III.

The $\frac{1}{8}$ " PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

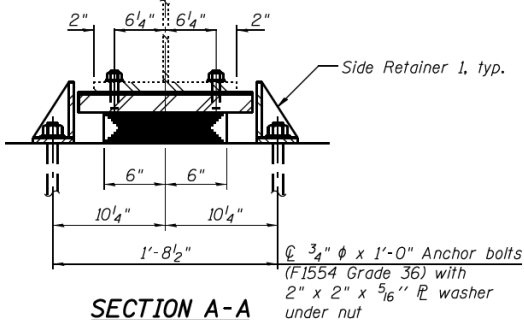
Bonding of $\frac{1}{8}$ " PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Two $\frac{1}{8}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

FOR INFORMATION ONLY

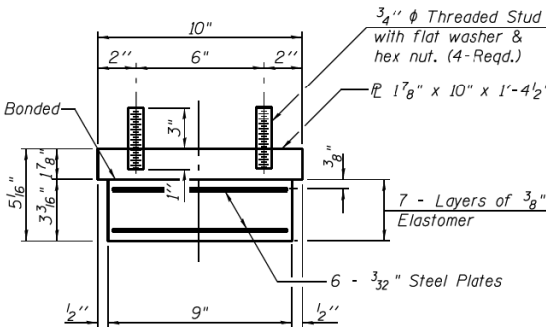


ELEVATION AT E. BRG. PIER C9



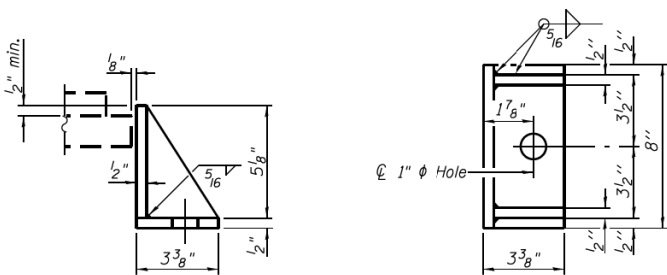
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. AT E. BRG. PIER C9
(14 Required)



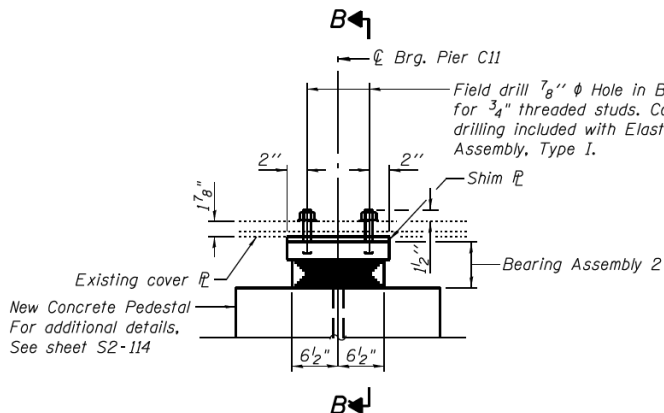
BEARING ASSEMBLY 1

Shim plates shall not be placed under Bearing Assembly.

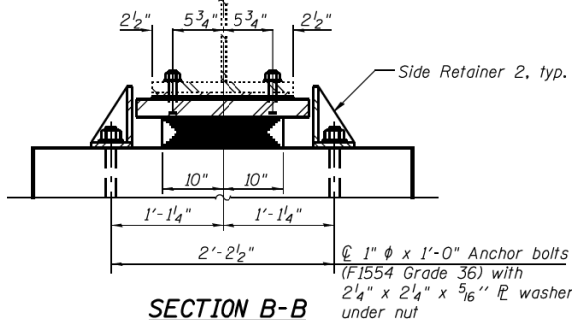


SIDE RETAINER 1

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

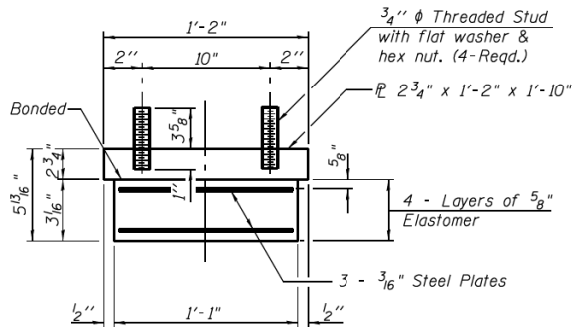


ELEVATION AT PIER C11



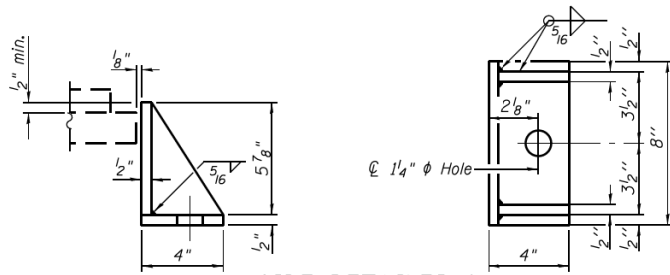
SECTION B-B

TYPE I ELASTOMERIC EXP. BRG. AT PIER C11
(14 Required)



BEARING ASSEMBLY 2

Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER 2

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

FILL PLATE THICKNESS TABLE
AT E. BRG. PIER C9

Beam No.	Thickness
9	3/4"
10	3/4"
11	1/2"

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	28
Anchor Bolts, 3/4"	Each	28
Anchor Bolts, 1"	Each	28

PARSONS
BRINCKERHOFF

USER NAME = poteld	DESIGNED - IJL	REVISED -
CHECKED - PJJ	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - IJL/DCP	REVISED -
PLOT DATE = 4/25/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS I - UNIT III
STRUCTURE NO. 016-0461

SHEET NO. S2-99 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	376
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
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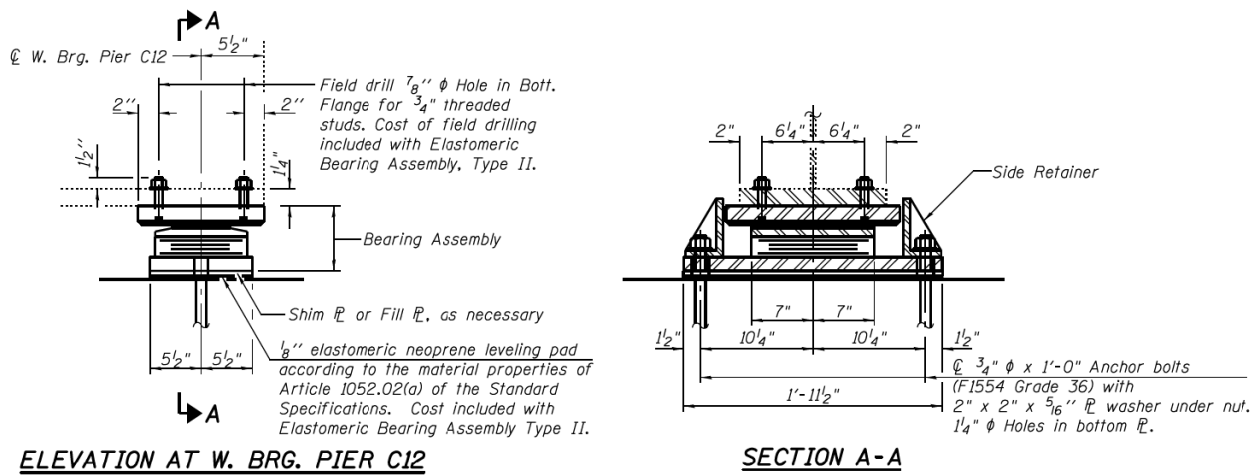
USER NAME = ahmad,issa	DESIGNED -	REVISED -
CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1741
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

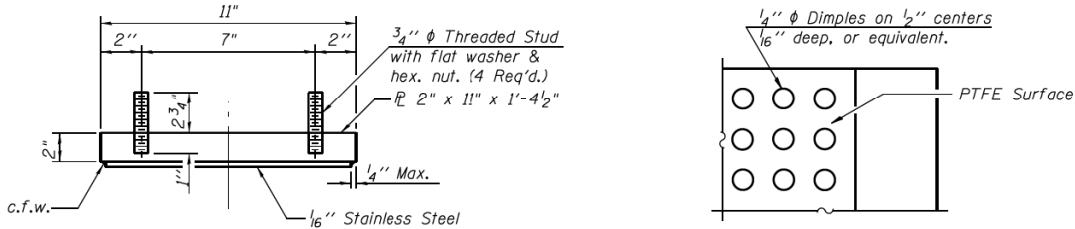


ELEVATION AT W. BRG. PIER C12

SECTION A-A

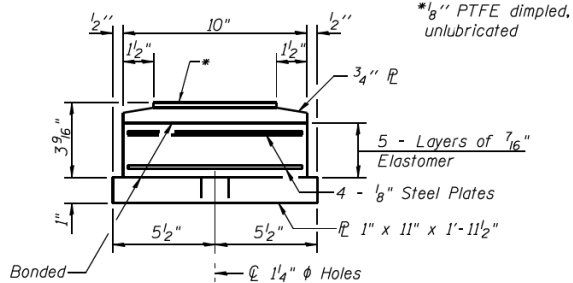
TYPE II ELASTOMERIC EXP. BRG. AT W. BRG. PIER C12

(14 Required)

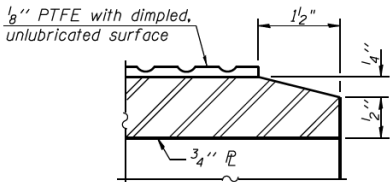


TOP BEARING ASSEMBLY

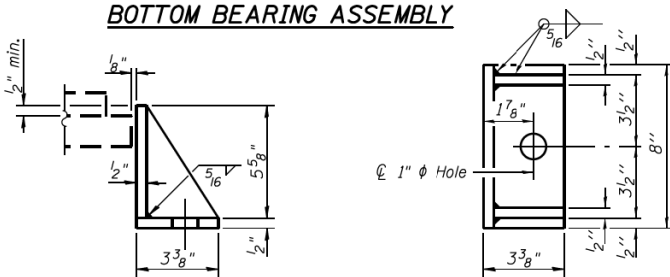
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY

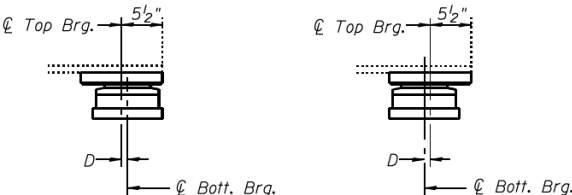


SECTION THRU PTFE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BELOW 50°F.

ABOVE 50°F.

(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

FILL PLATE THICKNESS TABLE AT W. BRG. PIER C12

Beam No.	Thickness
9	3/4"
10	3/4"
11	1/2"

Notes:
For bearing removal details and quantity, see sheet S2-96.
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Elastomeric Bearing Assembly, Type II.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

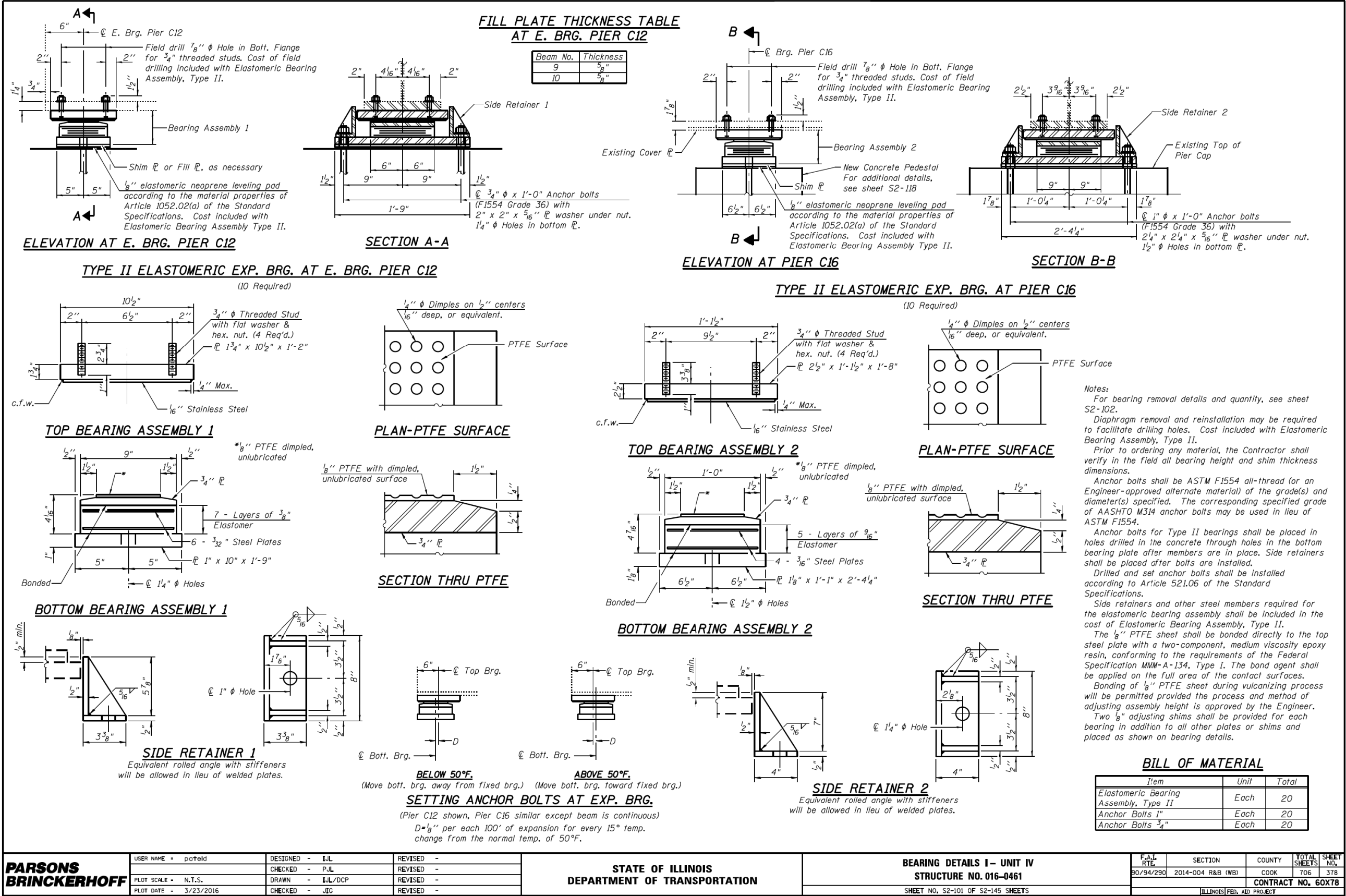
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	14
Anchor Bolts 3/4"	Each	28

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - IJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS II - UNIT III STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 3/23/2016	DRAWN - IJL/DCP	REVISED -			CONTRACT NO. 60X78				
		CHECKED - JIG	REVISED -			ILLINOIS FED. AID PROJECT				

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N.T.S.	CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1742
	PLOT DATE = 7/26/2018	DRAWN - MI, MAI	REVISED -			CONTRACT NO. 60X93				
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				

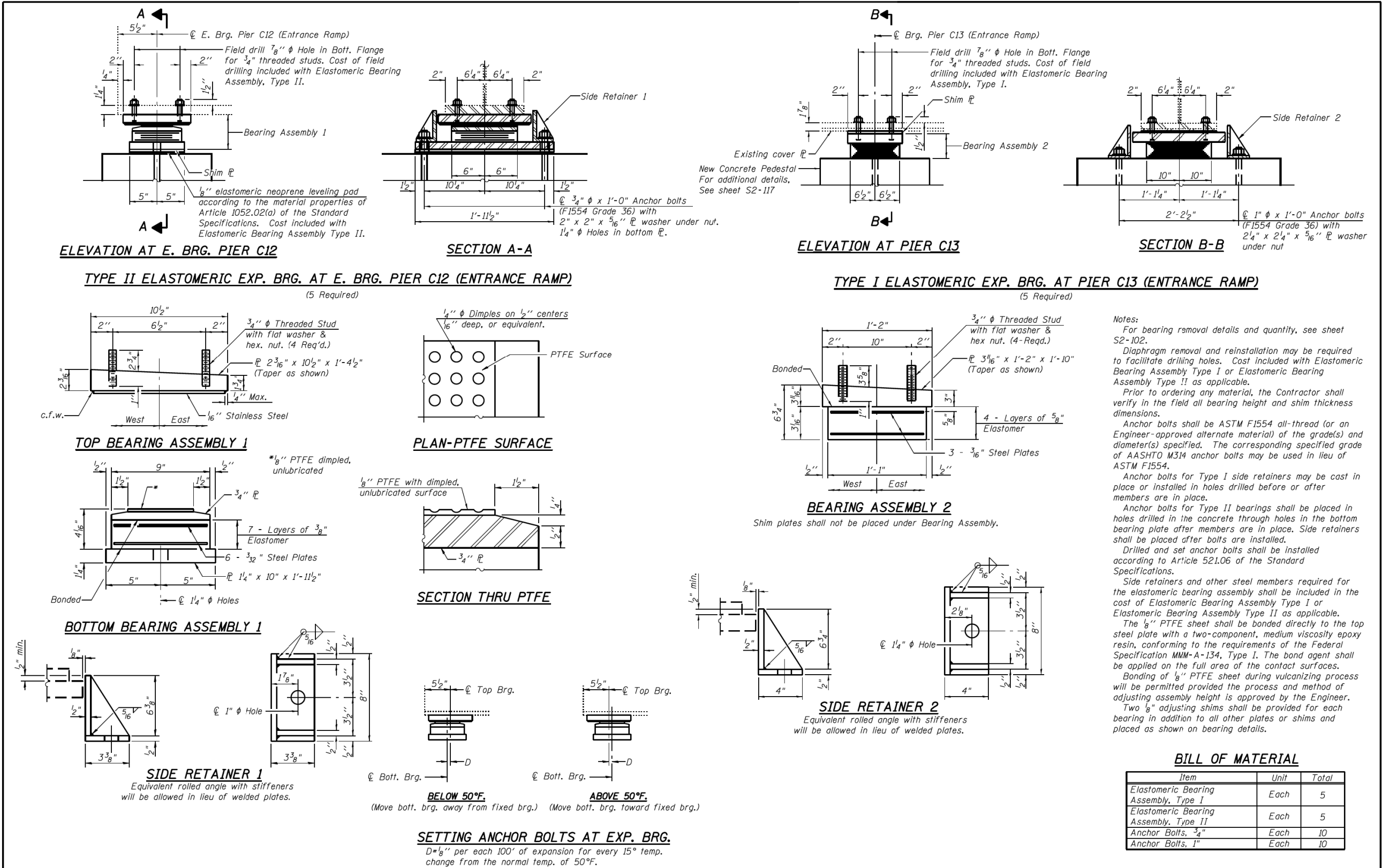
FOR INFORMATION ONLY



FILE NAME: pw:\617479-PWINT.aecomonline.local\AECOM_D502_NAI\Documents\01 Americas\Transportation\602269938 Circle\Phase II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing 167



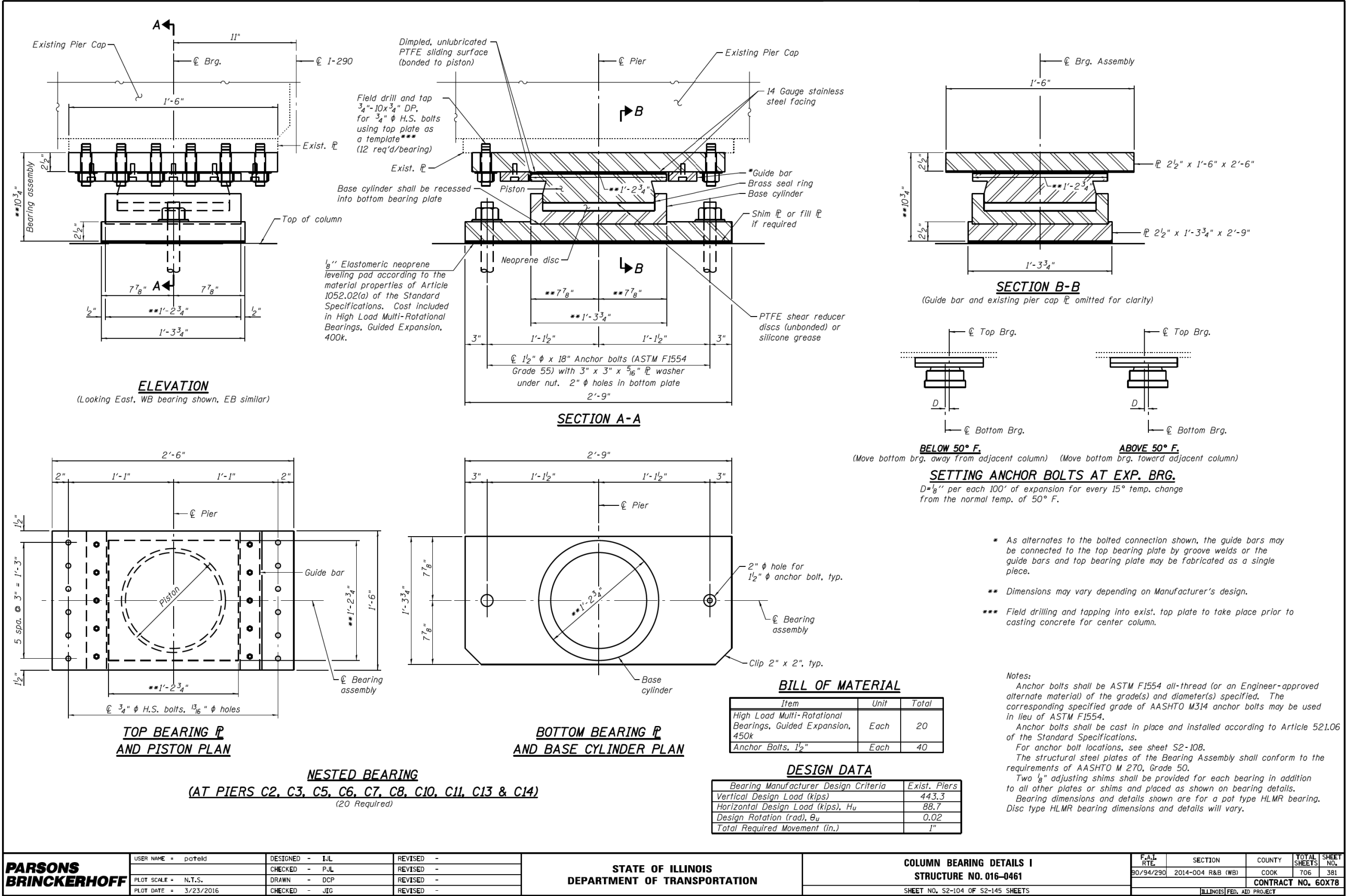
FOR INFORMATION ONLY



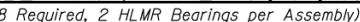
PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - IJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS – ENTRANCE RAMP STRUCTURE NO. 016-0461	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - P.JL	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	380
	PLOT SCALE = N.T.S.	DRAWN - IJL/DCP	REVISED -			CONTRACT NO. 60X78				
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -			ILLINOIS FED. AID PROJECT				

HBM ENGINEERING GROUP, LLC	USER NAME = ahmad,issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	COOK	1972	1745
	PLOT SCALE = N.T.S	DRAWN -	REVISED -			CONTRACT NO. 60X93				
	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -			ILLINOIS FED. AID PROJECT				

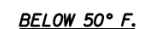
FOR INFORMATION ONLY



FILE NAME: pw:\617479-PW\INT.aecomonline.local\AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000 CAD\008_Structural\Structure 016-1718\Existing Plans\33906-60\X93-SXX-Existing 170



(Guide bar, pintles and pier cap embedded plate omitted for clarity)



(Move bottom brg. away from adjacent column) (Move bottom brg. toward adjacent column)



ABOVE 50° F.

SETTING ANCHOR BOLTS AT EXP. BRG.

$D = \frac{1}{8}''$ per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

- * As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece. If bolted connection is used, maintain a minimum clearance of 3" from the centerline of the pintles to the bolts in the guide bar.

** Dimensions may vary depending on Manufacturer's design.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270, Grade 50.

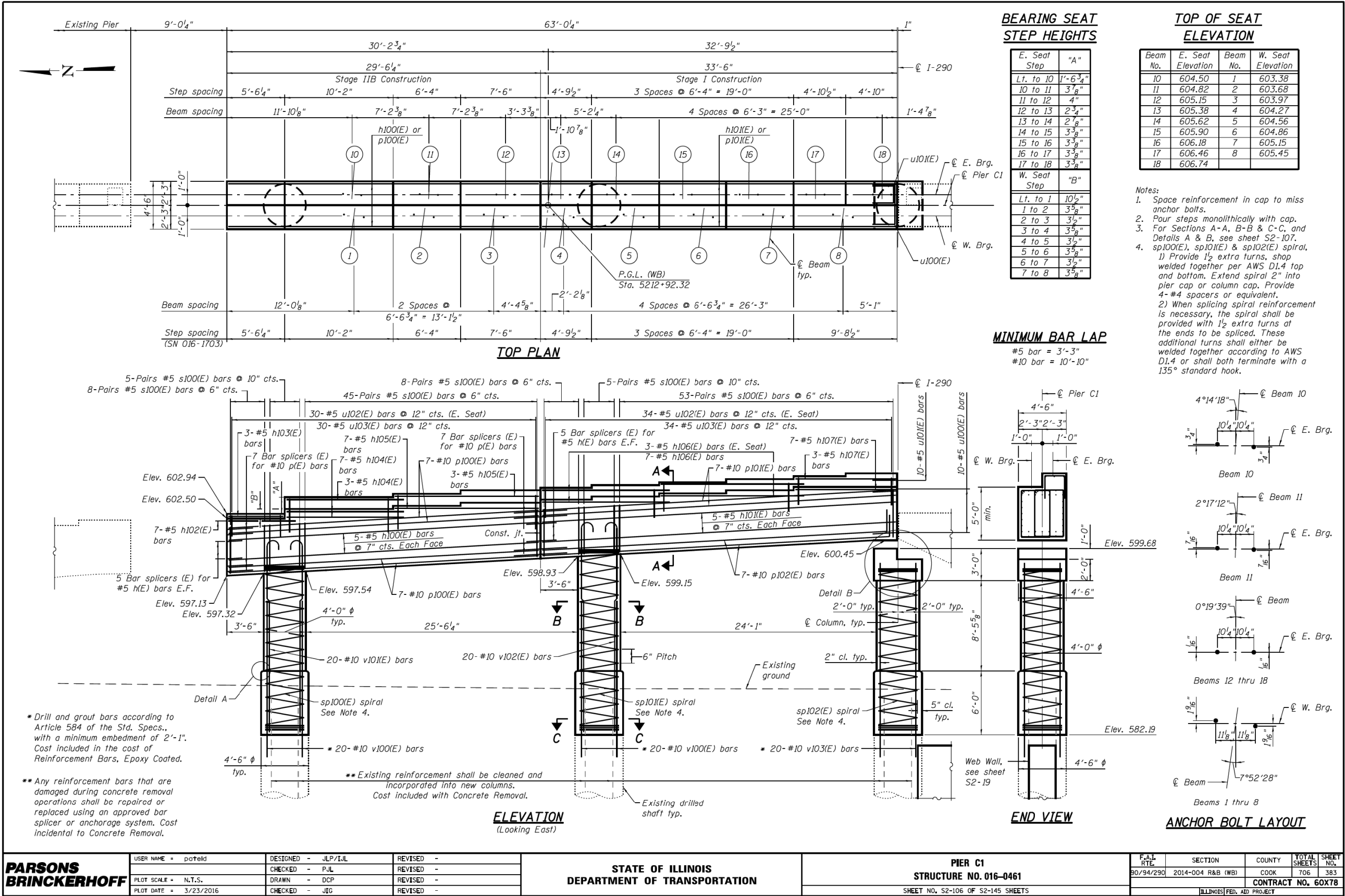
Two $\frac{1}{8}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Bearing dimensions and details shown are for a pot type HLMR bearing. Disc type HLMR bearing dimensions and details will vary.

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	382
		CONTRACT NO. 60X78		
		TITIMOTS, FED. AID PROJECT		

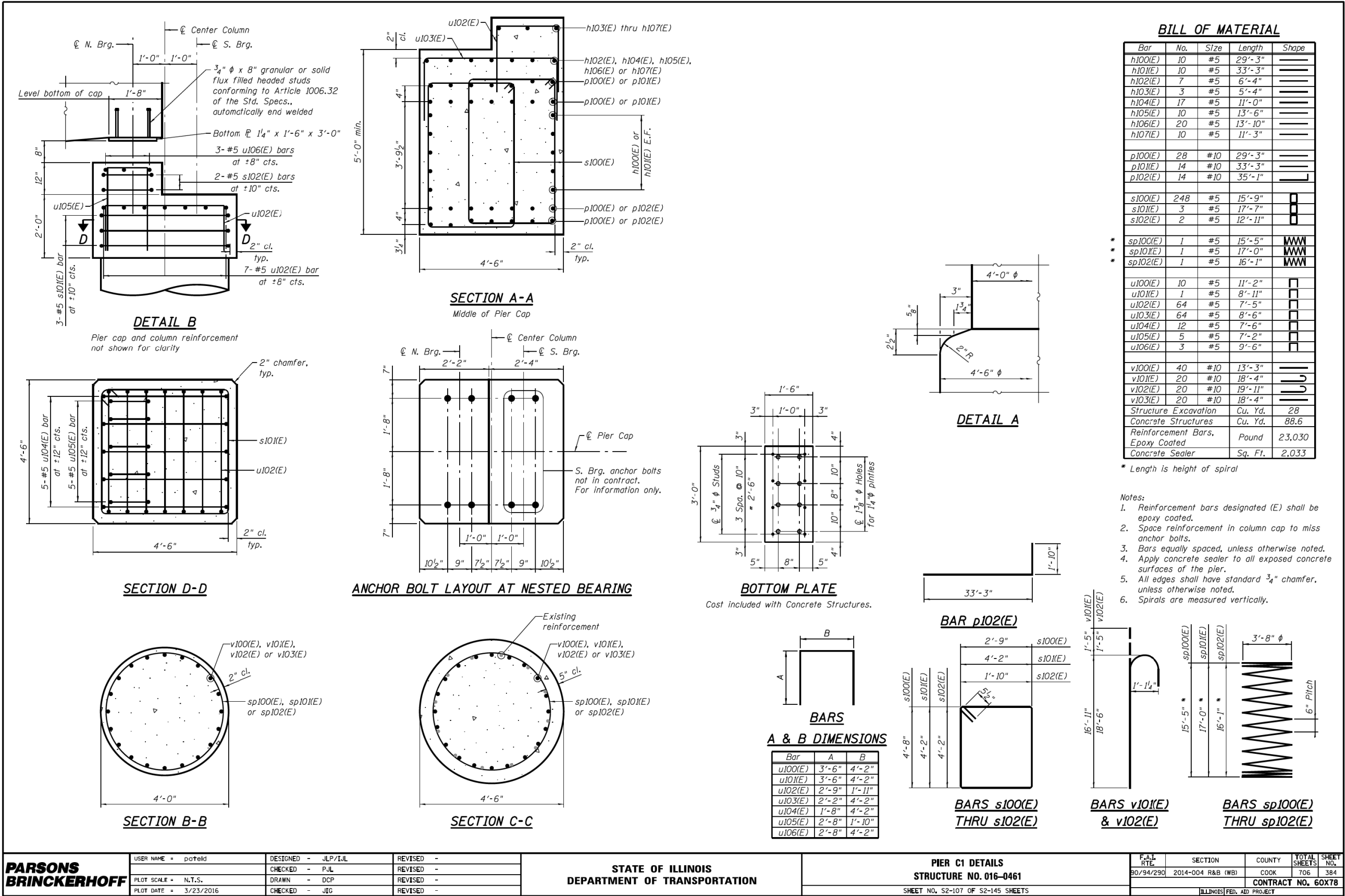
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1747
CONTRACT NO. 60X93				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY



FILE NAME: DWG\1617479-PWINT-aecomonline\local\AECOM_D502_NA\Documents\01_Americas\Transportation\60269938_CirclePhase\I\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing\171
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FOR INFORMATION ONLY



PARSONS
BRINCKERHOFF

USER NAME = poteld	DESIGNED - JLP/IJL	REVISED -
CHECKED - PJJ	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER C1 DETAILS
STRUCTURE NO. 016-0461

SHEET NO. S2-107 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	384
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

USER NAME = ahmad,issa	DESIGNED -	REVISED -
CHECKED -	REVISED -	
PLOT SCALE = N.T.S.	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1749
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

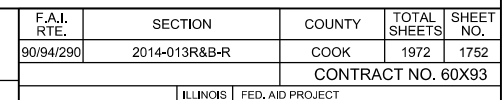
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FILE NAME: pw:\617479-PWINT.aecomonline.local\AECOM_D502_NAI\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing_174

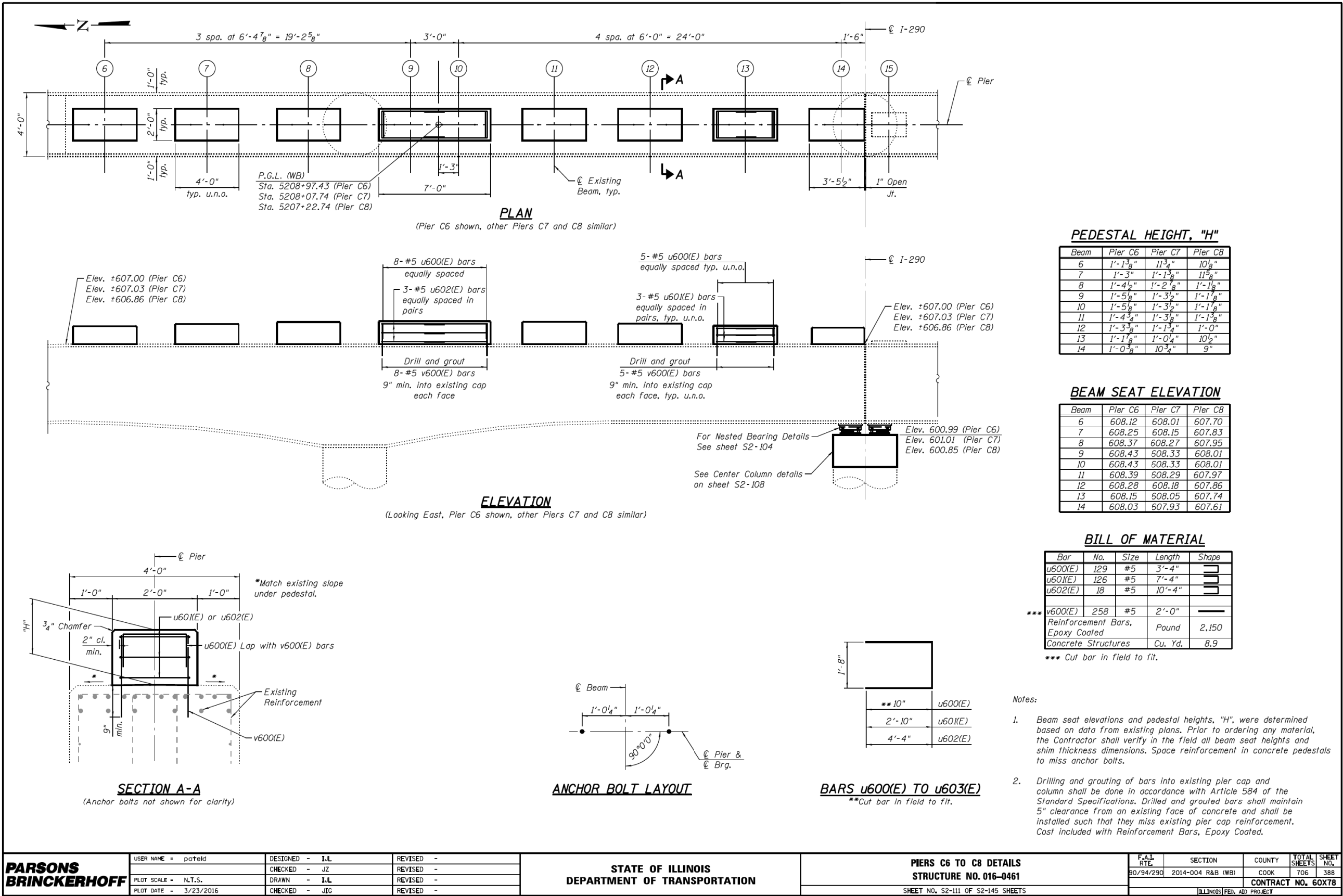


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1. Reinforcement bars designated (E) shall be epoxy coated.
2. Space reinforcement in column cap to miss anchor bolts.
3. Bars equally spaced, unless otherwise noted.
4. Apply concrete sealer to all exposed concrete surfaces of the pier.
5. All edges shall have standard $\frac{3}{4}$ " chamfer, unless otherwise noted.
6. Spirals are measured vertically.

FOR INFORMATION ONLY



FILE NAME: DWG\161749-PWINT-aecomonline.local\AECOM_D502_NA\Documents\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing176



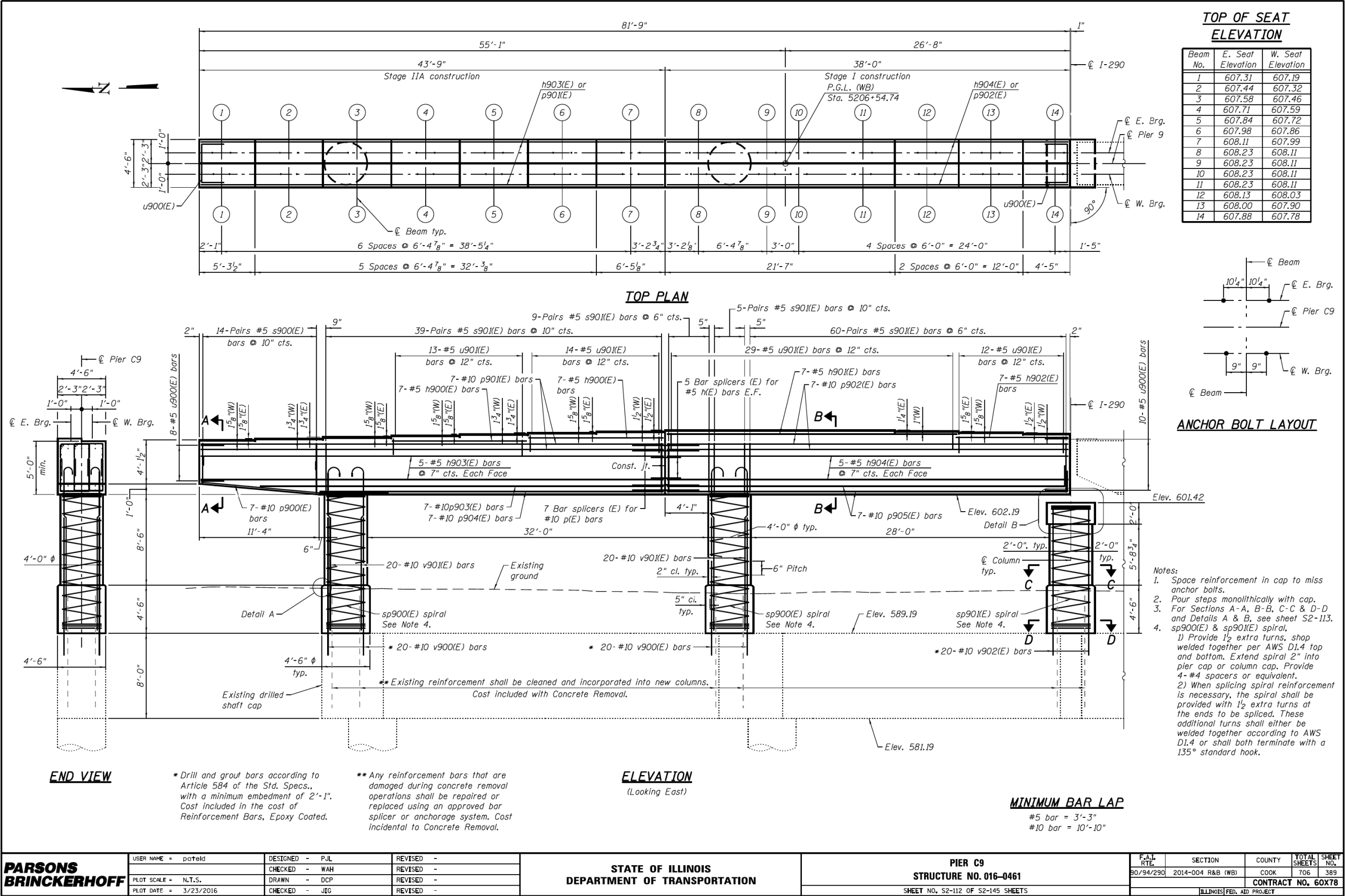
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PLOT DATE =	7/26/2018	CHECKED -	MI, MAI	REVISÉ -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE. 90/94/290	SECTION 2014-013R&B-R	COUNTY COOK	TOTAL SHEETS 1972	SHEET NO. 1753
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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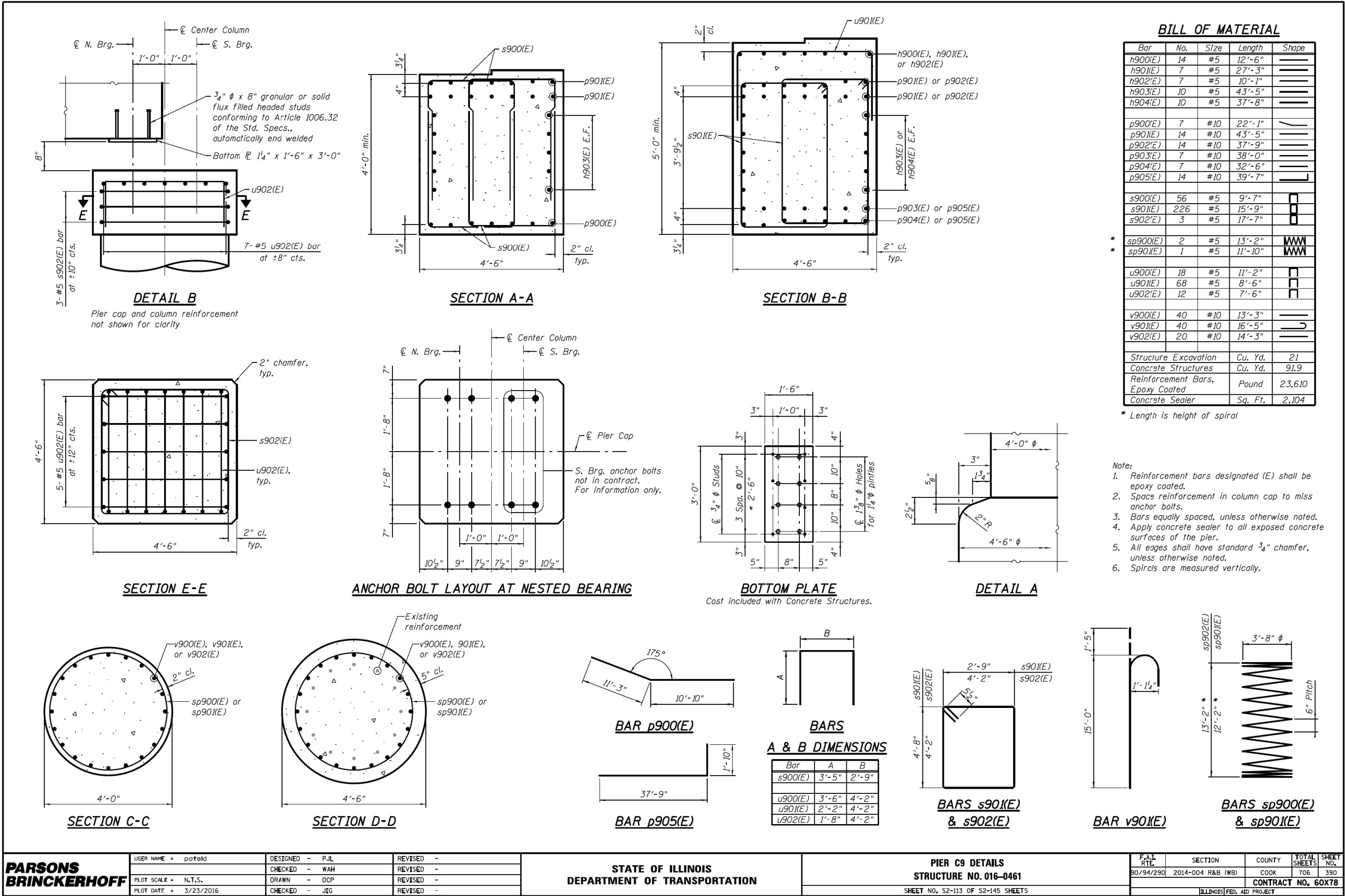
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1754
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



PARSONS
BRINCKERHOFF

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER C9 DETAILS
STRUCTURE NO. 016-0461

SHEET NO. S2-113 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

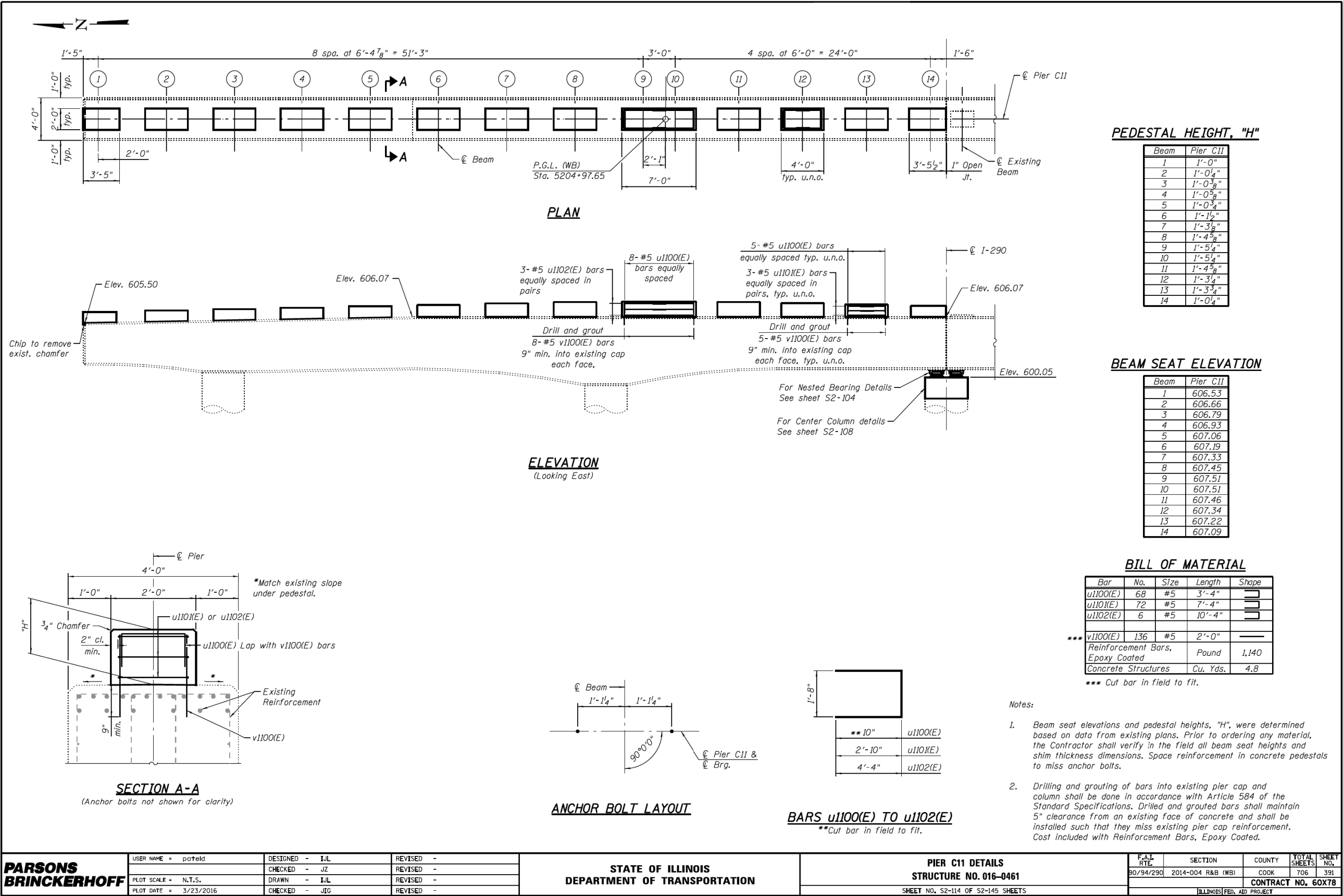
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

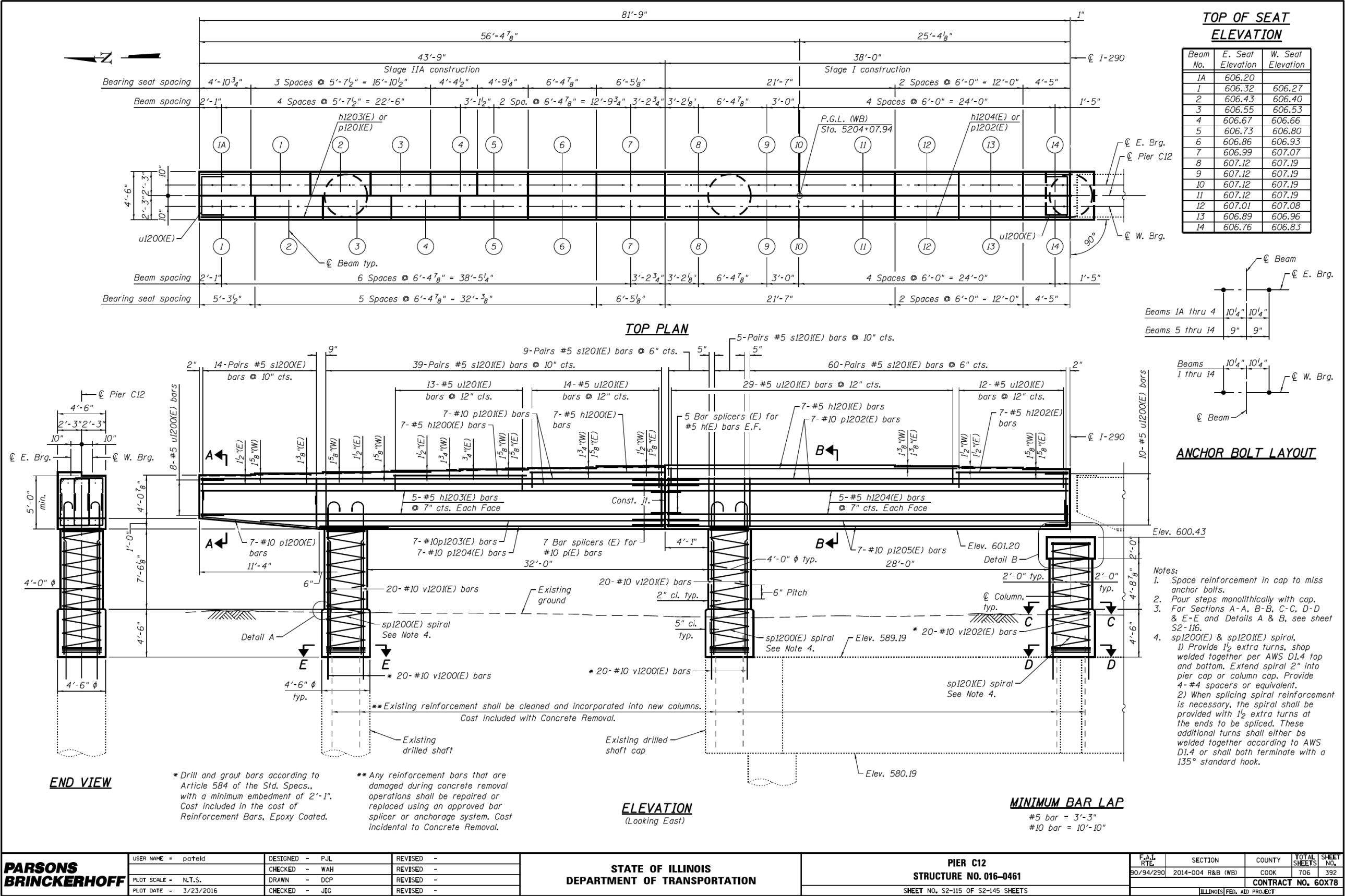
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

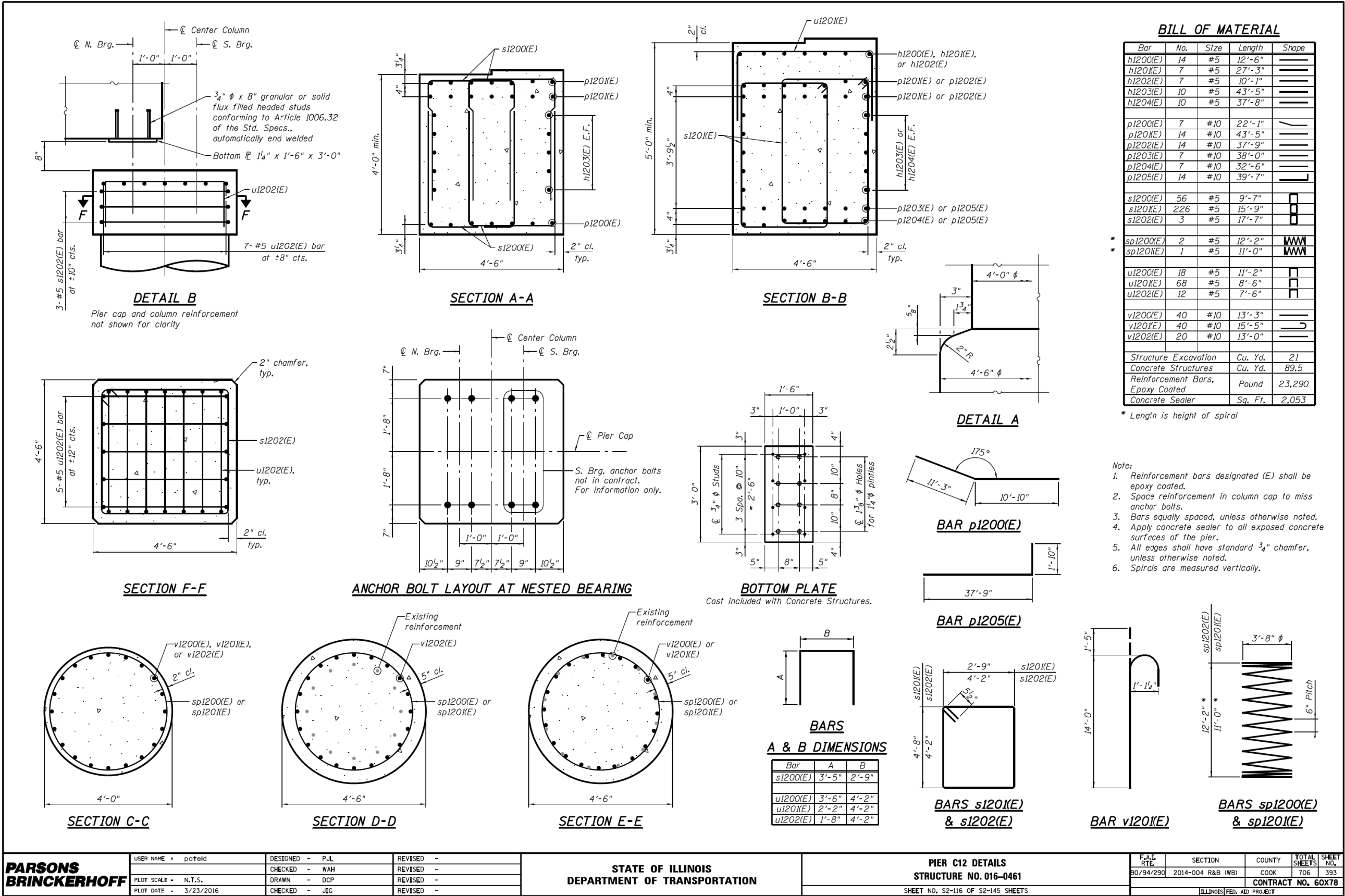


FOR INFORMATION ONLY



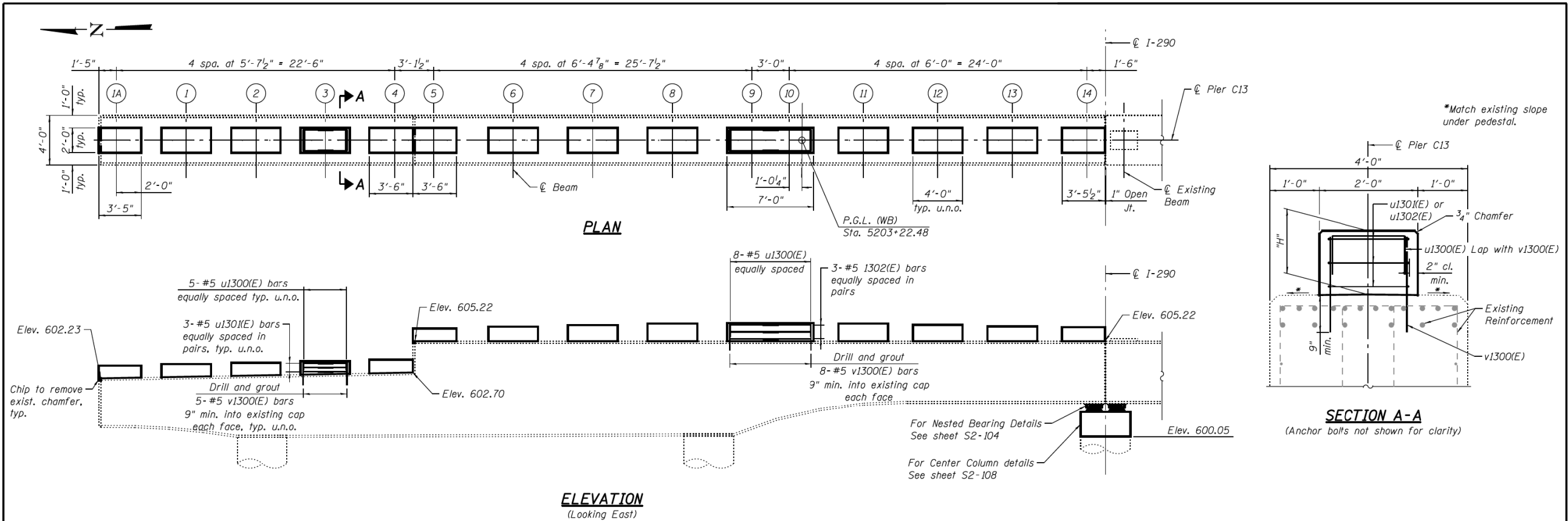
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FOR INFORMATION ONLY



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FOR INFORMATION ONLY



PEDESTAL HEIGHT, "H"

Beam	Pier C13
1A	1'-0"
1	1'-0 1/4"
2	1'-0 1/8"
3	1'-0 1/2"
4	1'-0 5/8"
5	1'-0 1/4"
6	1'-1 1/8"
7	1'-3 1/2"
8	1'-4 1/8"
9	1'-5 5/8"
10	1'-5 5/8"
11	1'-5"
12	1'-3 5/8"
13	1'-2 1/8"
14	1'-1 5/8"

BEARING SEAT ELEVATION

Beam	Pier C13
1A	603.26
1	603.38
2	603.49
3	603.61
4	603.73
5	606.24
6	606.38
7	606.51
8	606.63
9	606.69
10	606.69
11	606.64
12	606.53
13	606.40
14	606.34

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
u1300(E)	73	#5	3'-4"	
u130(E)	72	#5	7'-4"	
u1302(E)	6	#5	10'-4"	
*** v1100(E)	146	#5	2'-0"	
Reinforcement Bars, Epoxy Coated		Pound	1,310	
Concrete Structures		Cu. Yd.	5.2	

*** Cut bar in field to fit.

Notes:

- Beam seat elevations and pedestal heights, "H", were determined based on data from existing plans. Prior to ordering any material, the Contractor shall verify in the field all beam seat heights and shim thickness dimensions. Space reinforcement in concrete pedestals to miss anchor bolts.
- Drilling and grouting of bars into existing pier cap and column shall be done in accordance with Article 584 of the Standard Specifications. Drilled and grouted bars shall maintain 5" clearance from an existing face of concrete and shall be installed such that they miss existing pier cap reinforcement. Cost included with Reinforcement Bars, Epoxy Coated.

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - IJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER C13 DETAILS STRUCTURE NO. 016-0461	SHEET NO. S2-117 OF S2-145 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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USER NAME = ahmad,issa	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

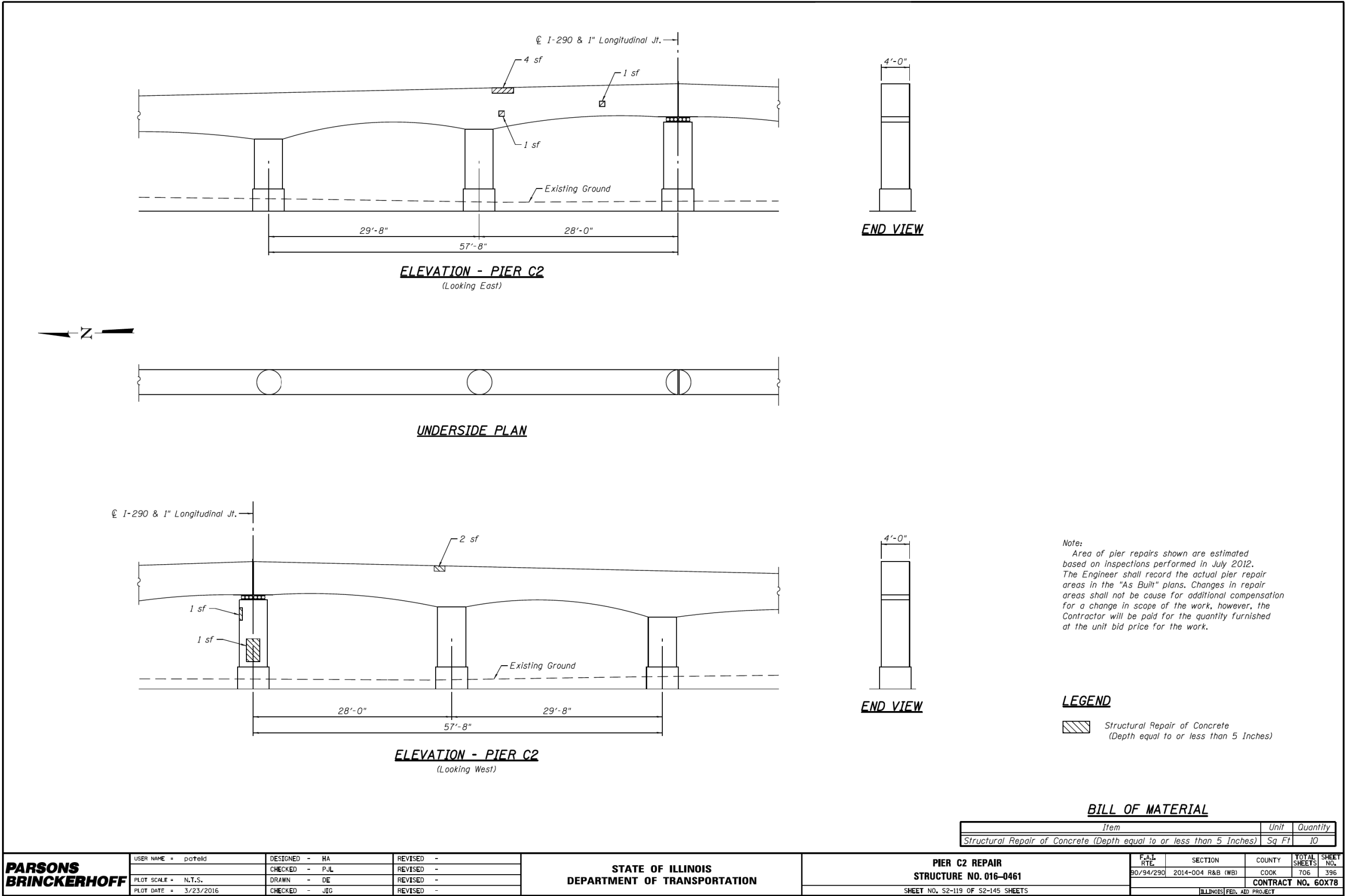
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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FOR INFORMATION ONLY



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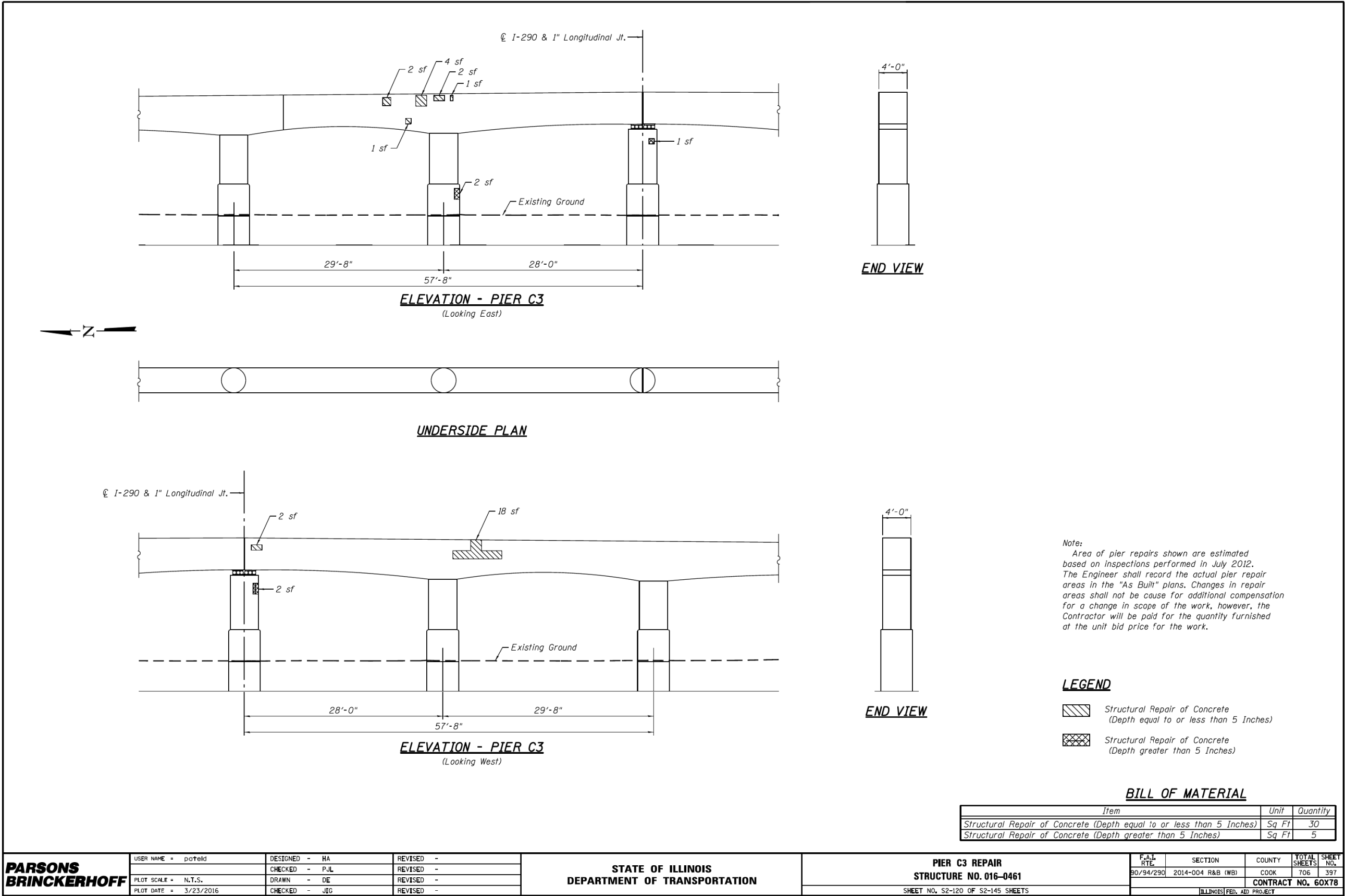
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1761
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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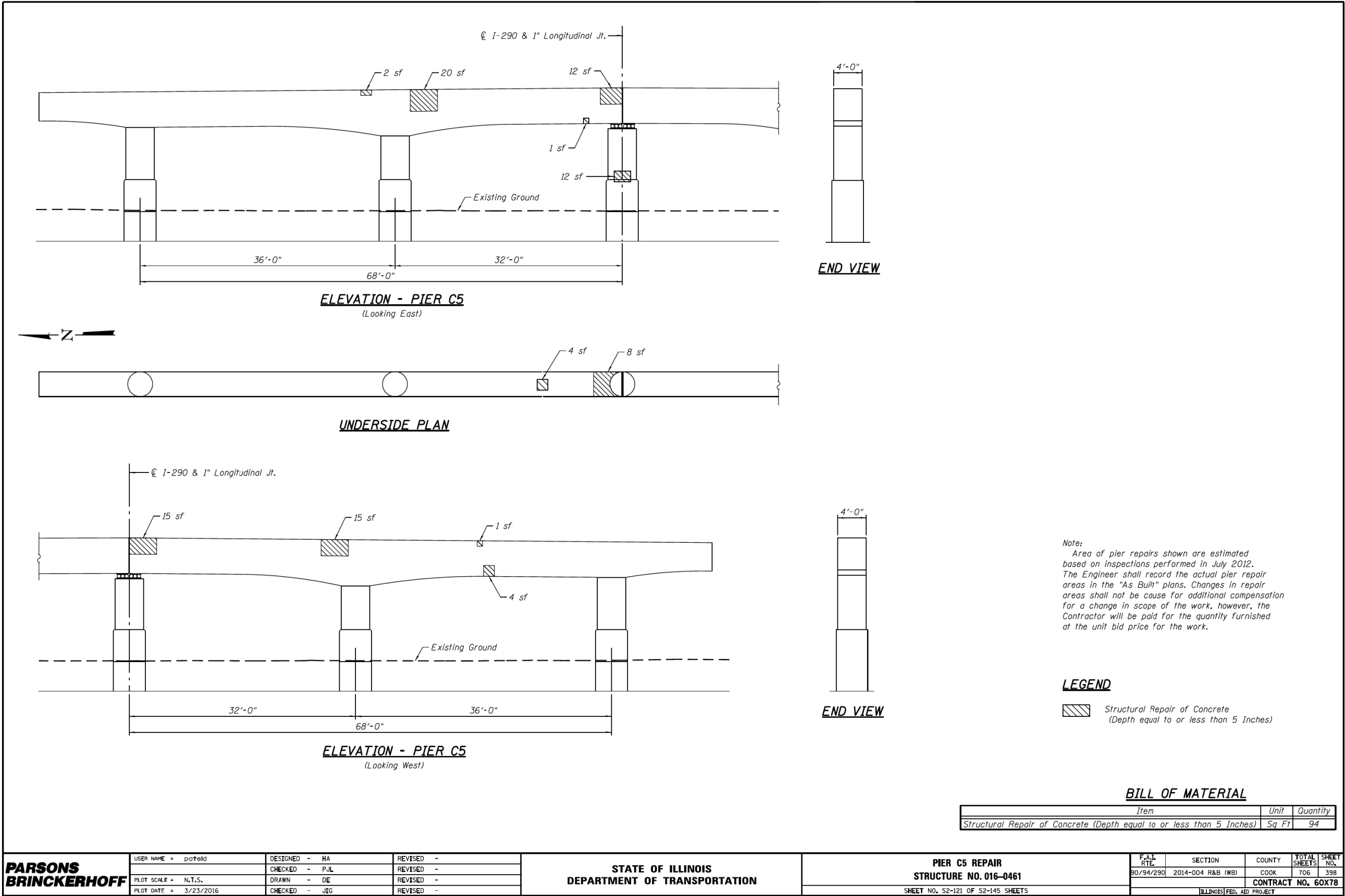
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1762
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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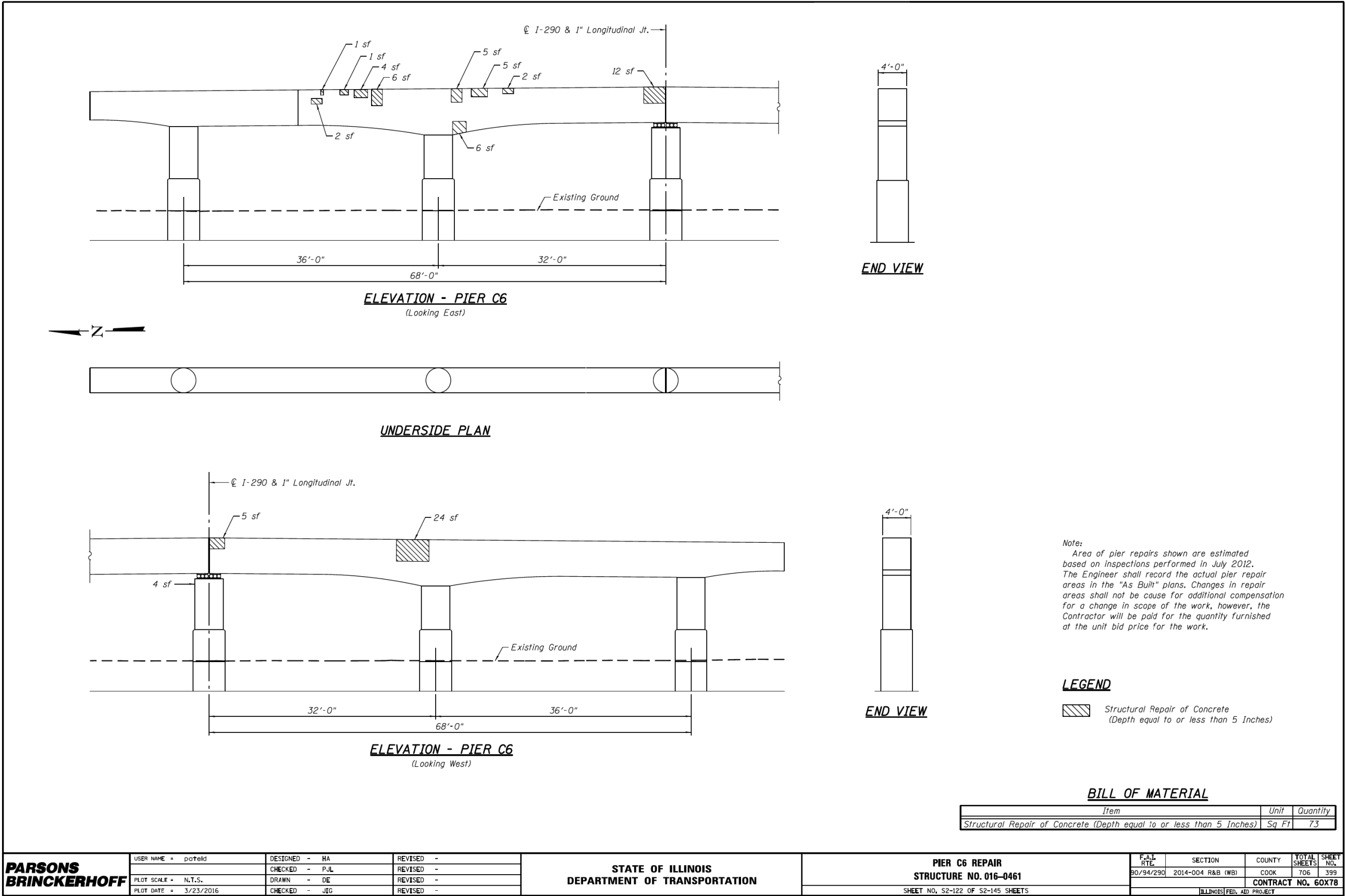
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1763
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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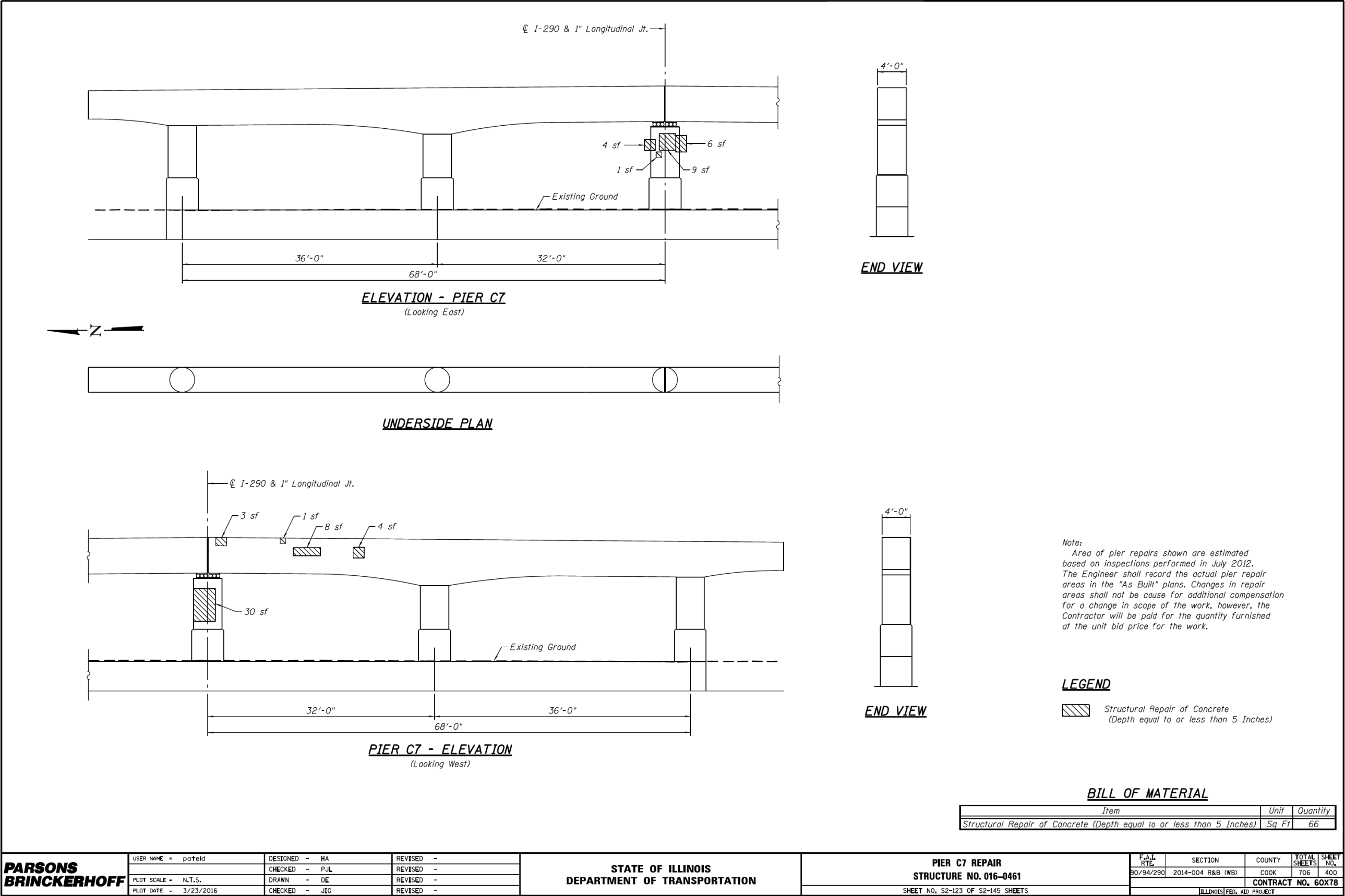
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1764
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



**PARSONS
BRINCKERHOFF**

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	CHECKED - JIG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER C7 REPAIR
STRUCTURE NO. 016-0461

SHEET NO. S2-123 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

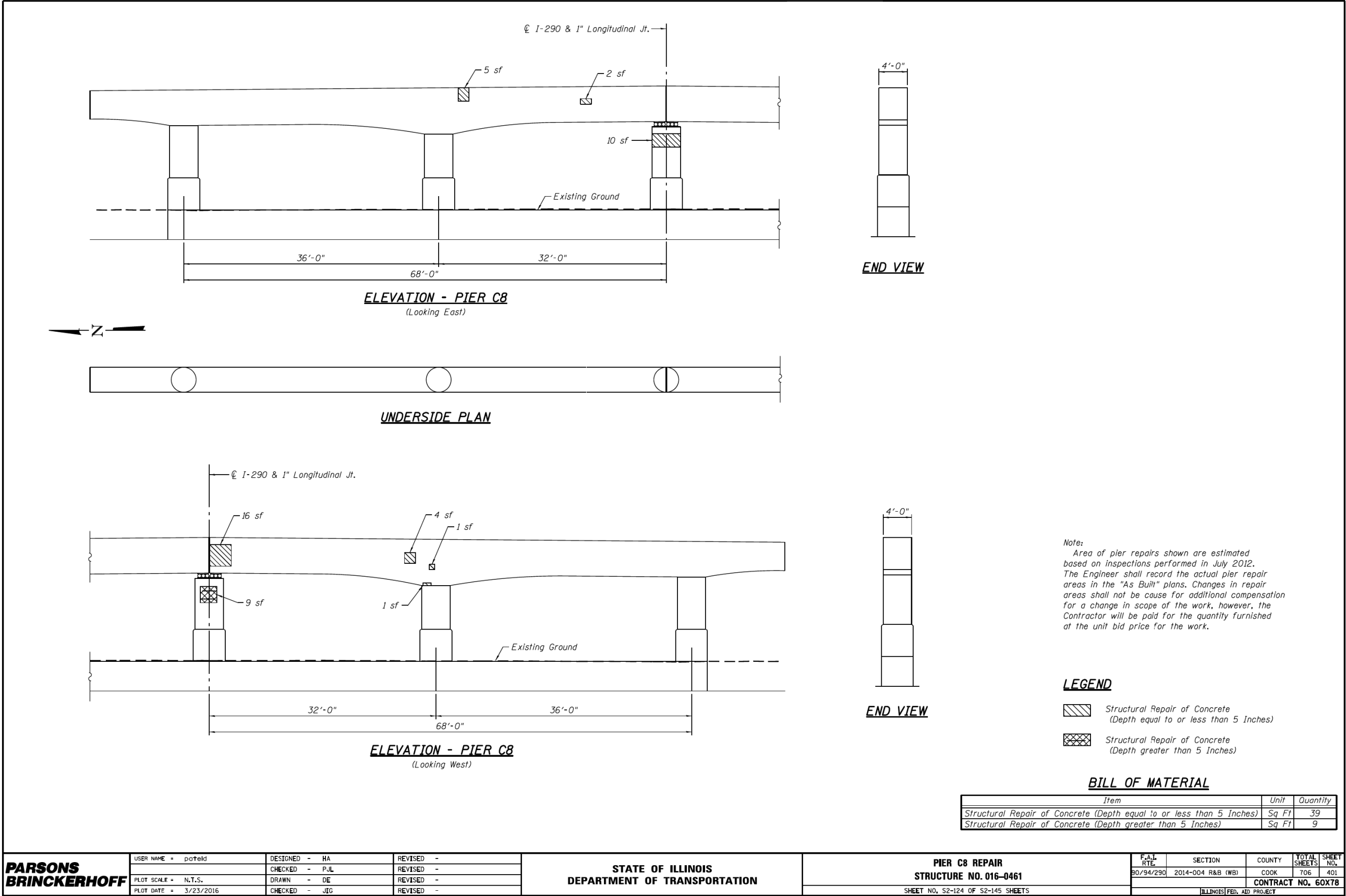
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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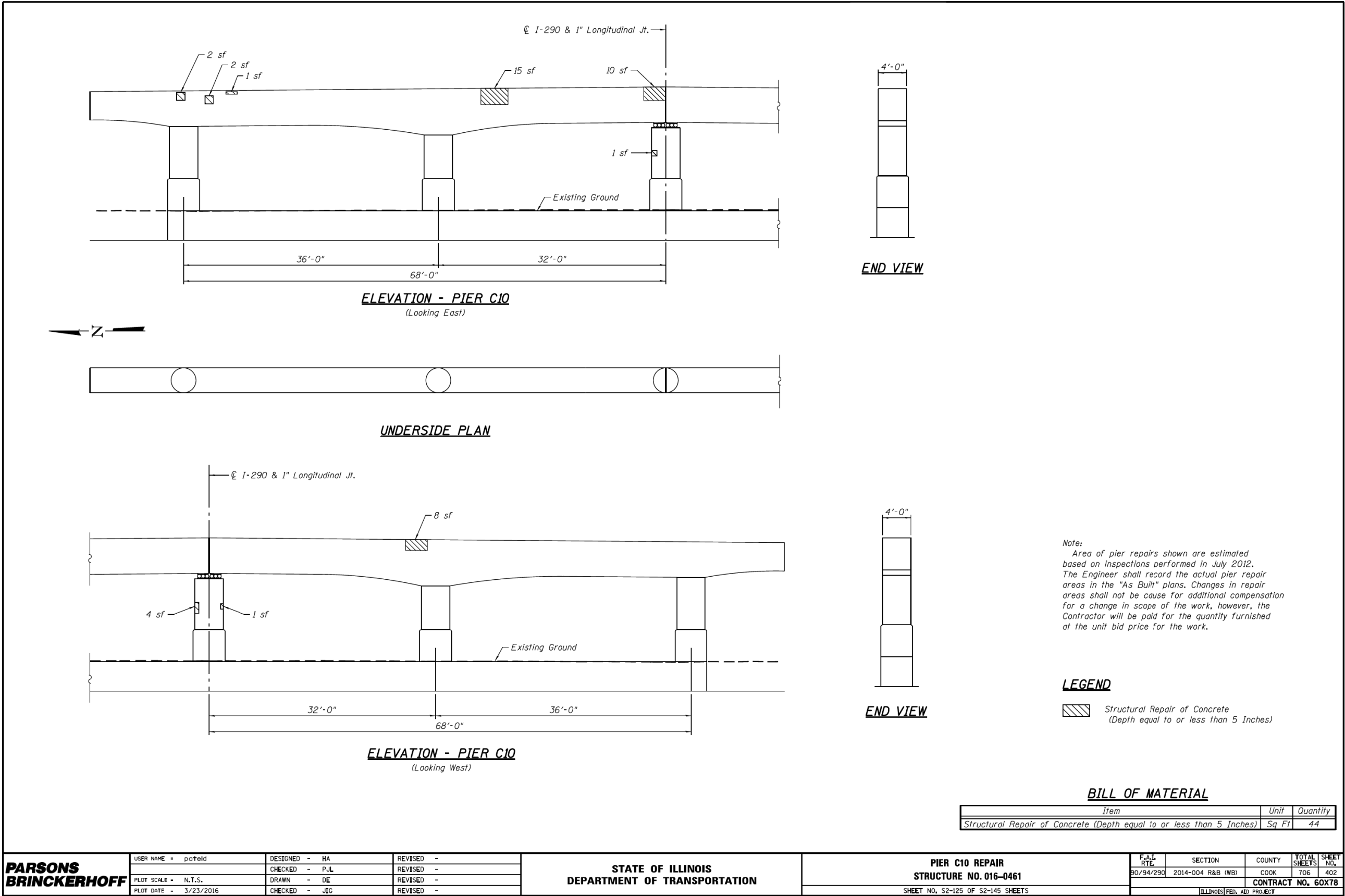
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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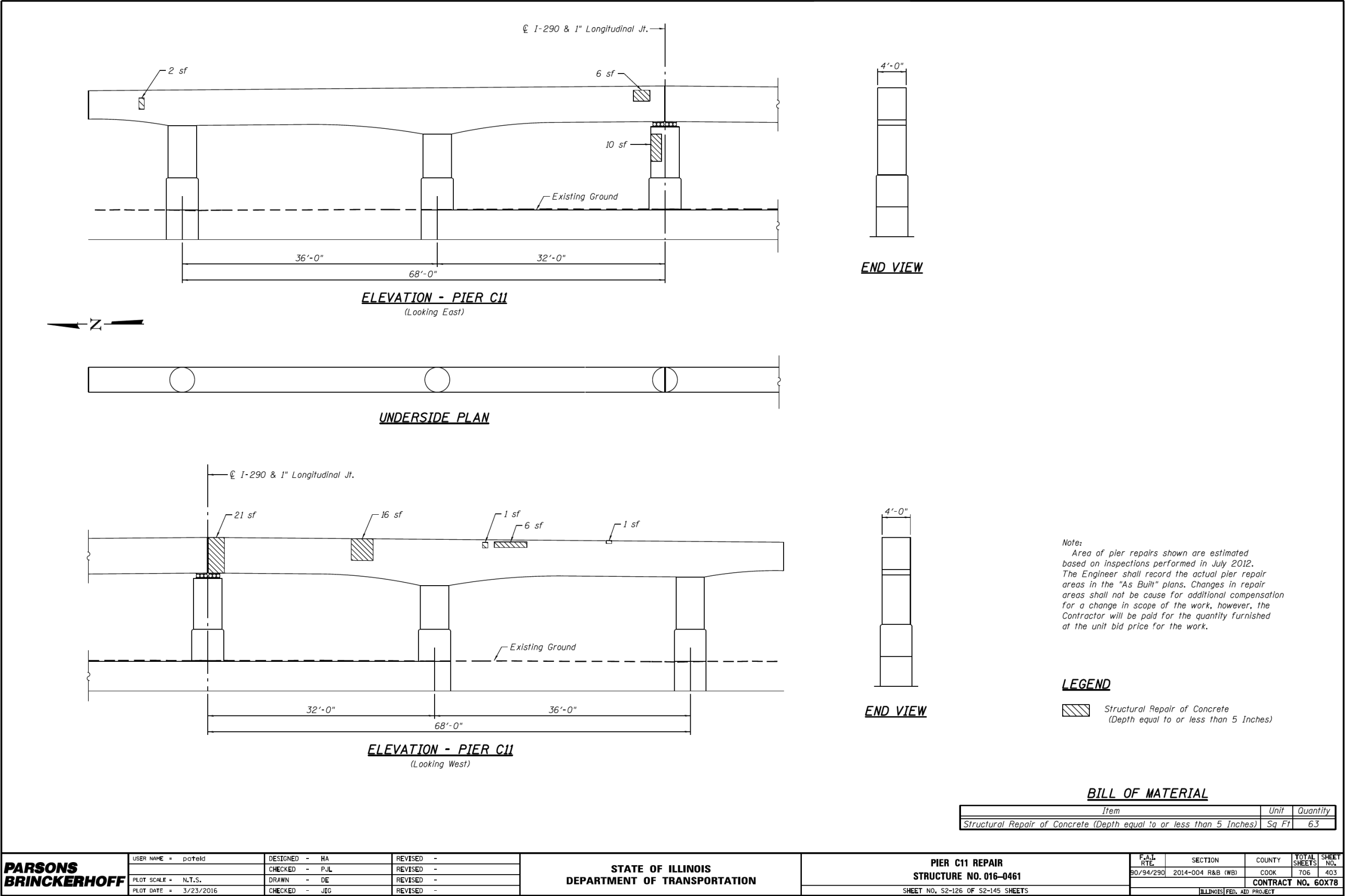
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

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ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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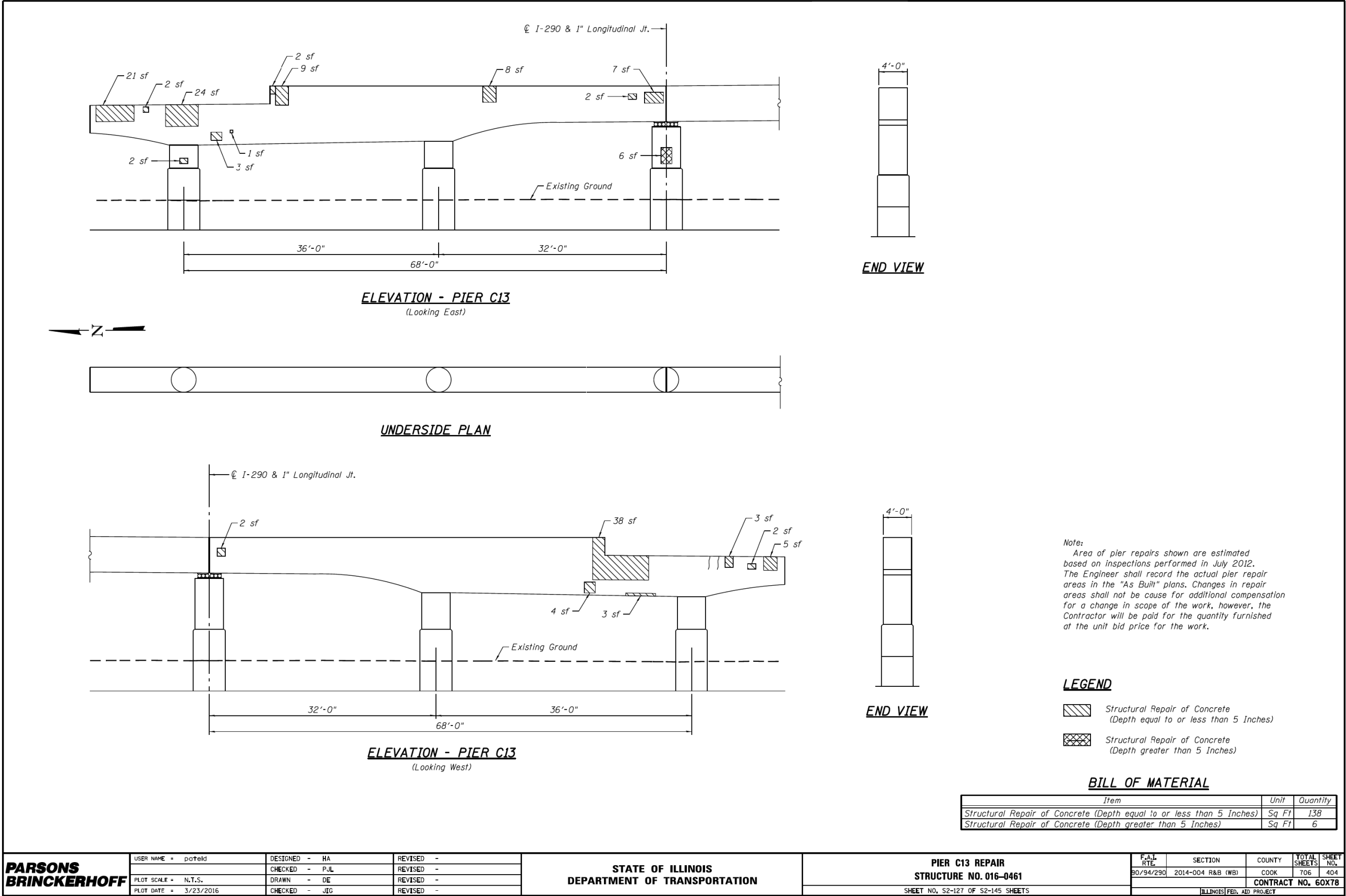
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY



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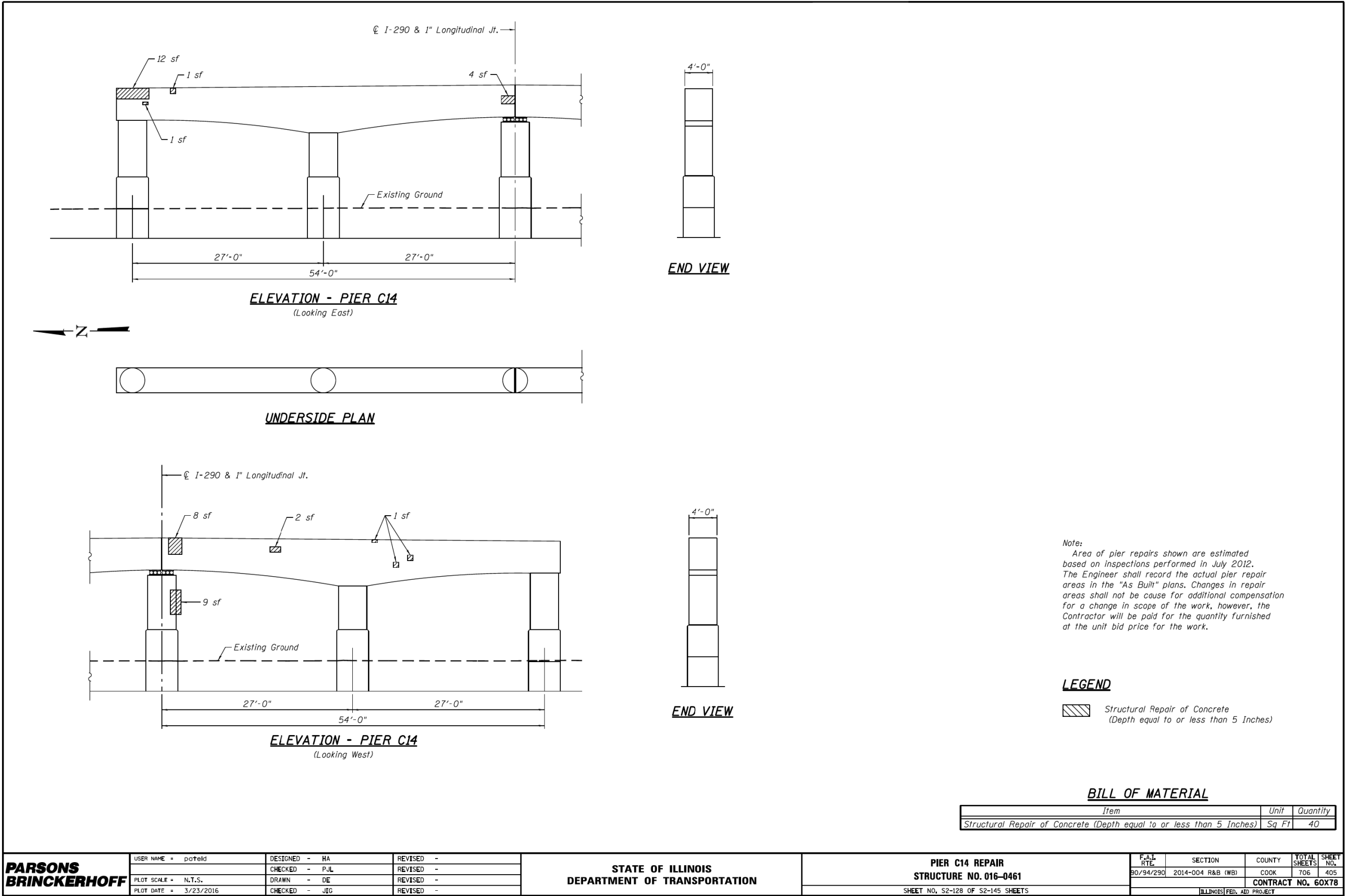
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

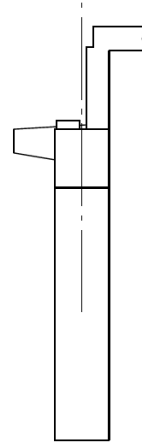
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ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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END VIEW

LEGEND

BILL OF MATERIAL

**PARSONS
BRINCKERHOFF**

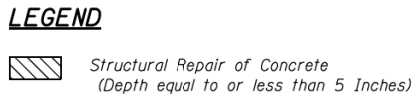
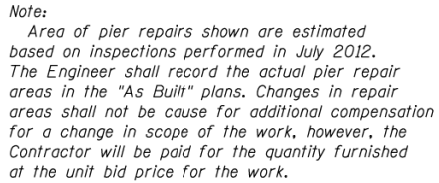
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HBM
ENGINEERING GROUP, LLC

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	CONTRACT NO. 60X93				
	ILLINOIS FED. AID PROJECT				

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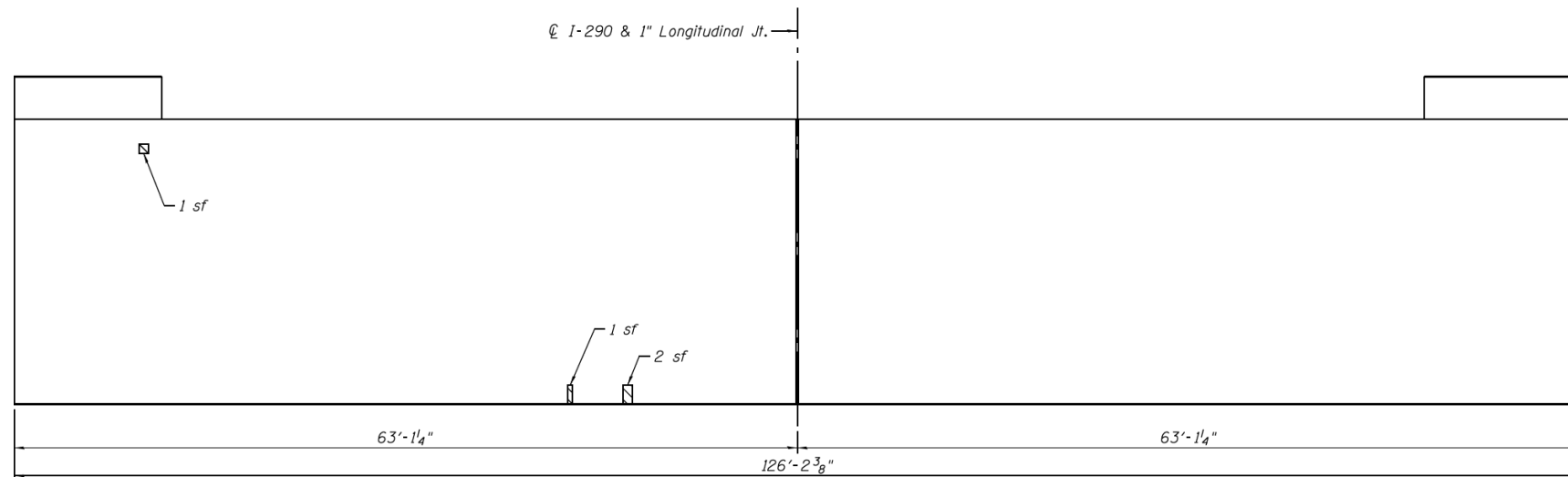


Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5 Inches)	Sq Ft	14

	USER NAME = ahmad,Issa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	
		CHECKED -	REVISED -			90/94/290	2014-013R&B-R	
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	PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -					

EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	90/94/290	2014-013R&B-R	COOK	1972	1772
				CONTRACT NO. 60X93	
	ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY



ELEVATION - PIER C16
(Looking East)



END VIEW

Note: Area of pier repairs shown are estimated based on inspections performed in July 2012. The Engineer shall record the actual pier repair areas in the "As Built" plans. Changes in repair areas shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity furnished at the unit bid price for the work.

LEGEND

 *Structural Repair of Concrete
(Depth equal to or less than 5 Inches)*

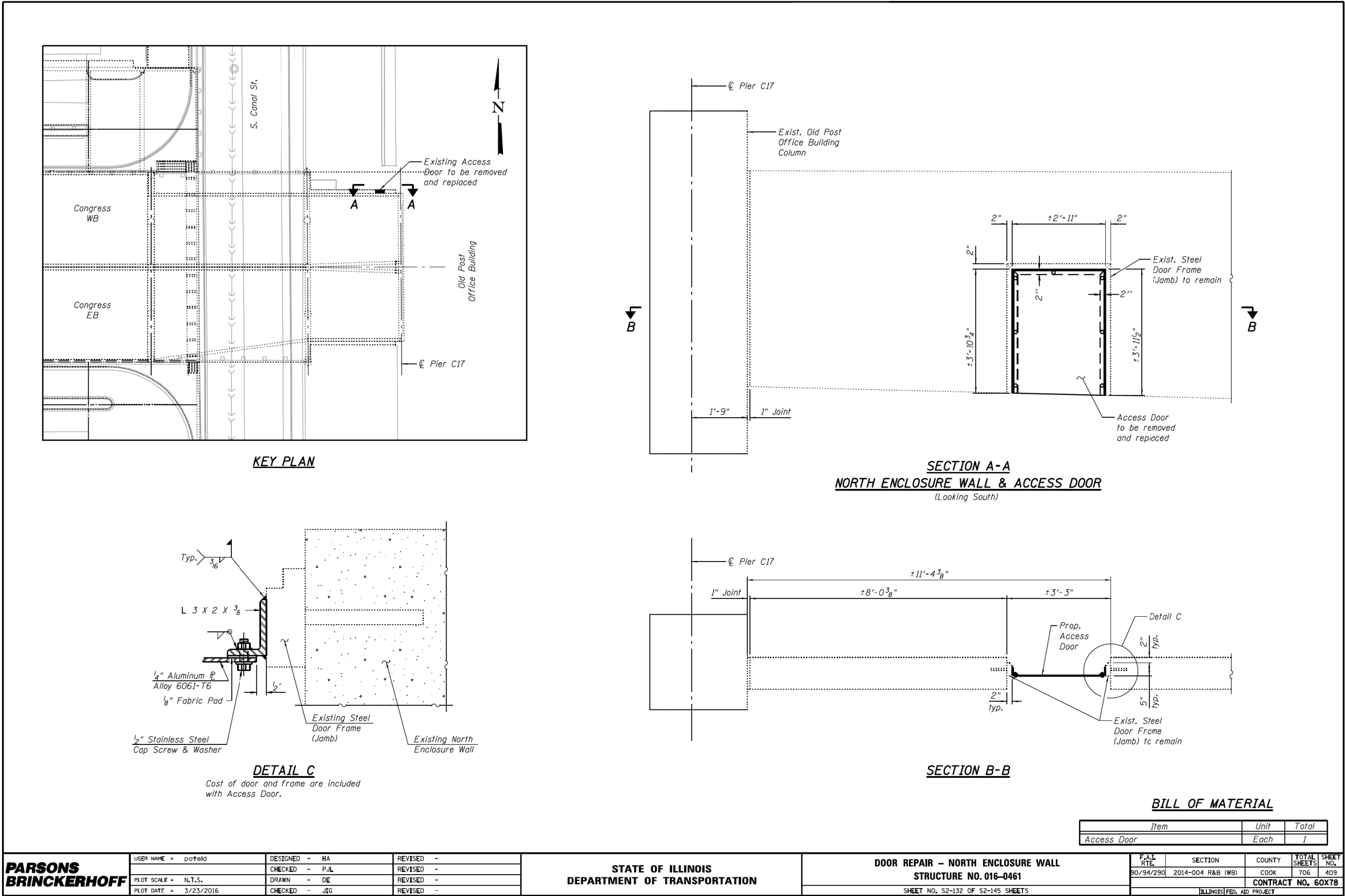
BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5 Inches)	Sq Ft	4

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - HA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER C16 REPAIR STRUCTURE NO. 016-0461	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - P.J.L	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	408	
	PLOT SCALE = N.T.S.	DRAWN - DE	REVISED -			CONTRACT NO. 60X78					
	PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -								
	SHEET NO. S2-131 OF S2-145 SHEETS						INSTRUCTIONS AND NOTES				

USER NAME	=	ahmad,issa	DESIGNED	-	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING RECORD DRAWINGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			CHECKED	-	REVISED	-			90/94/290	2014-013R&B-R	COOK	1972	1773	
PLOT SCALE	=	N.T.S	DRAWN	-	REVISED	-			CONTRACT NO. 60X93					
PLOT DATE	=	7/26/2018	CHECKED	-	REVISED	-			ILLINOIS FED. AID PROJECT					

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USER NAME =	ahmad,issa	DESIGNED -	HA	REVISIONS -
		CHECKED -	P.JL	REVISIONS -
PLOT SCALE =	N.T.S	DRAWN -	DE	REVISIONS -
PLOT DATE =	7/26/2018	CHECKED -	MI, MAI	REVISIONS -

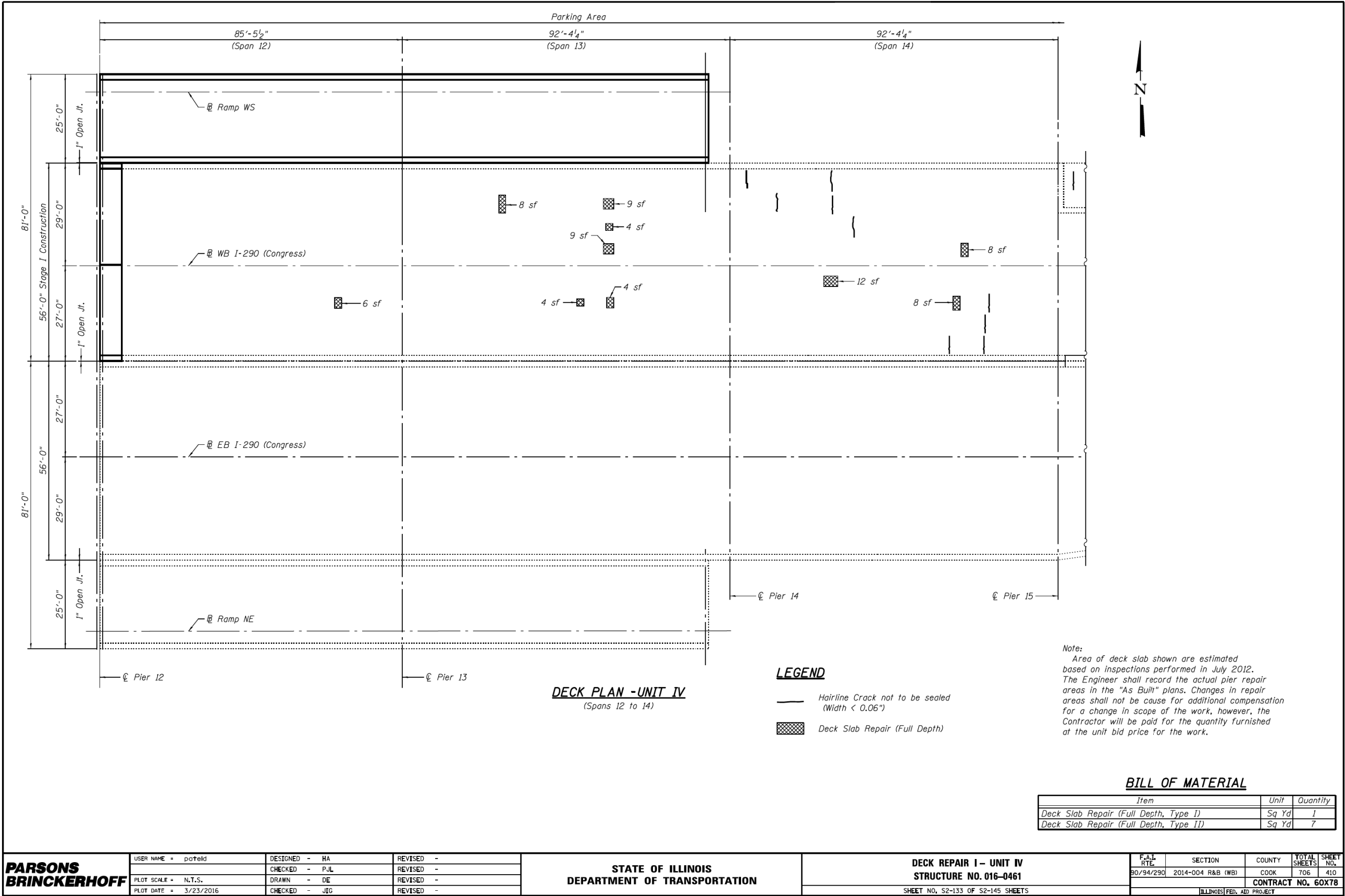
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1774
CONTRACT NO. 60X93				

FILE NAME: D:\3161749-PWINT-aecomonline\local\AECOM_DS02_NA\Documents\01_Americas\Transportation\60269938_CirclePhase_II\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing197
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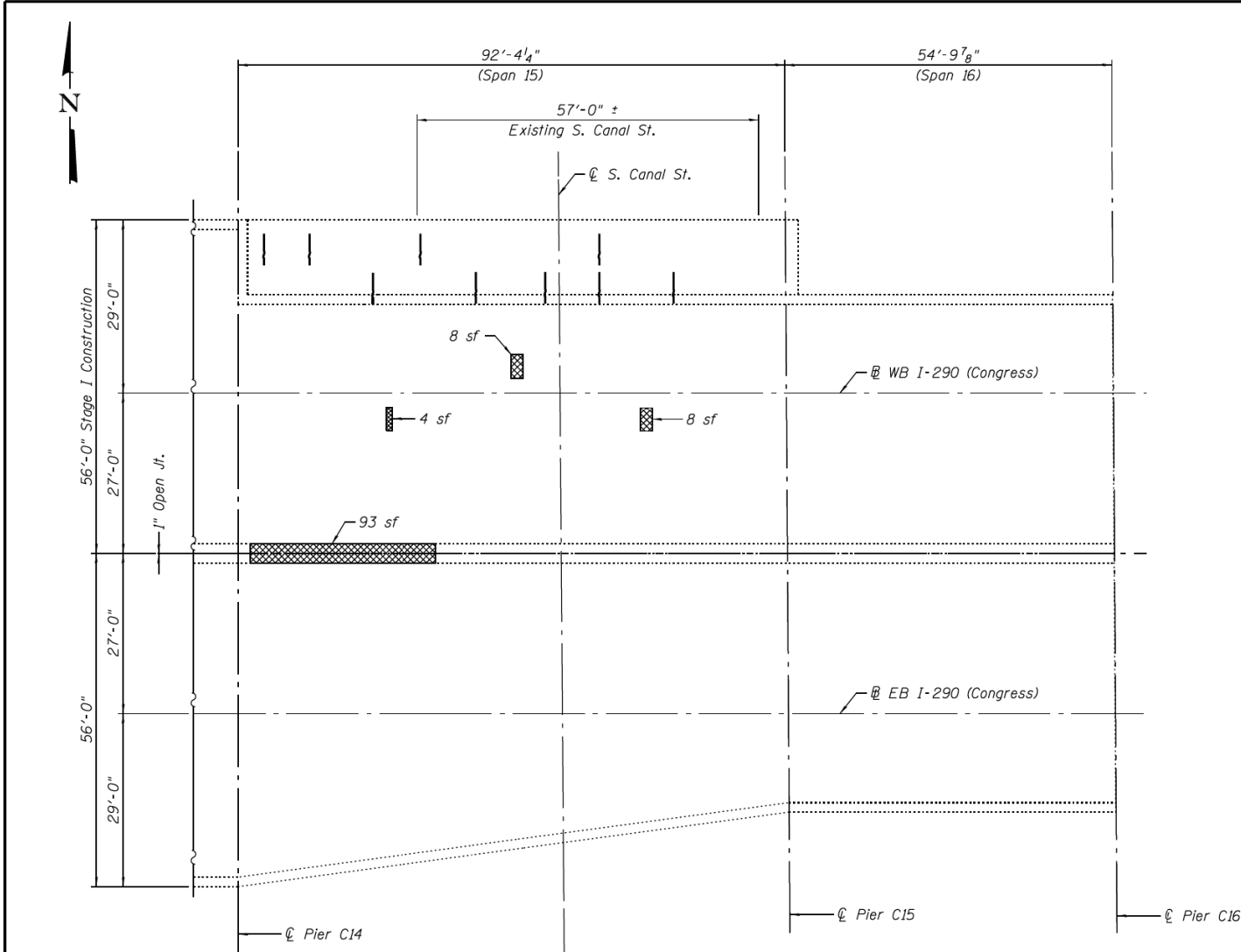
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PLOT SCALE	=	N.T.S	DRAWN	-		REVISIONS	-	
PLOT DATE	=	7/26/2018	CHECKED	-	MI, MAI	REVISIONS	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1775
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



DECK PLAN -UNIT IV

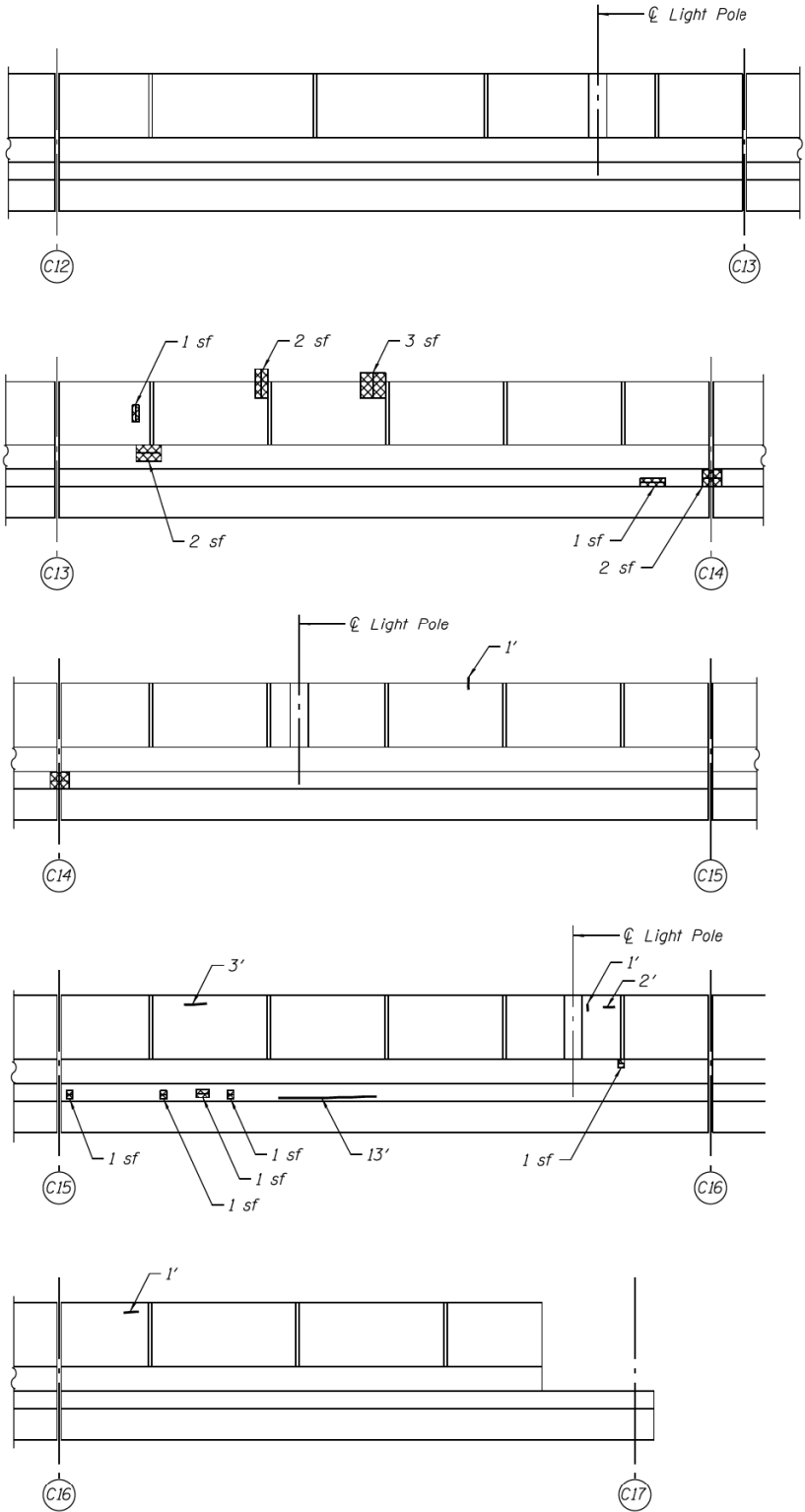
Note:
Area of deck slab shown are estimated based on inspections performed in July 2012. The Engineer shall record the actual pier repair areas in the "As Built" plans. Changes in repair areas shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity furnished at the unit bid price for the work.

BILL OF MATERIAL

Item	Unit	Quantity
Deck Slab Repair (Full Depth, Type I)	Sq Yd	1
Deck Slab Repair (Full Depth, Type II)	Sq Yd	12
Structural Repair of Concrete (Depth greater than 5 Inches)	Sq Ft	16

LEGEND

- Structural Repair of Concrete (Depth greater than 5 Inches)
- Hairline Crack not to be sealed (Width < 0.06")
- Deck Slab Repair (Full Depth)



NORTH PARAPET (INSIDE FACE)

(Looking North)

PARSONS BRINCKERHOFF	USER NAME = poteld	DESIGNED - HA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK REPAIR II - UNIT IV STRUCTURE NO. 016-0461 SHEET NO. S2-134 OF S2-145 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N.T.S.	CHECKED - P.J.L	REVISED -			90/94/290	2014-004 R&B (WB)	COOK	706	411
	PLOT DATE = 3/23/2016	DRAWN - DE	REVISED -			CONTRACT NO. 60X78				
		CHECKED - JIG	REVISED -			ILLINOIS FED. AID PROJECT				

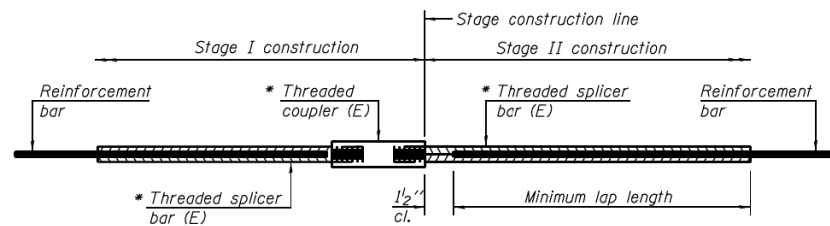
USER NAME = ahmad,issa	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = N.T.S	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

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EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1776
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

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

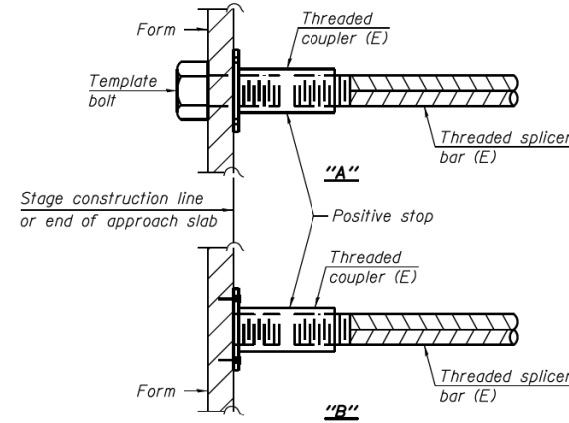
Table 5: Epoxy bar, Class C

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
Deck - Unit I	#4	1	Table 3
Deck - Unit I	#5	1,346	Table 3
Deck - Unit I	#8	1	Table 3
Deck - Unit II	#4	1	Table 3
Deck - Unit II	#5	2,071	Table 3
Deck - Unit II	#8	1	Table 3
Deck - Unit III	#5	692	Table 3
Deck - Unit IV	#5	30	Table 3
Pier C1	#5	20	Table 5
Pier C1	#10	28	Table 5
Pier C1 (Top Bar)	#10	28	Table 6
Pier C4	#5	20	Table 5
Pier C4	#10	28	Table 5
Pier C4 (Top Bar)	#10	28	Table 6
Pier C9	#5	10	Table 5
Pier C9	#10	14	Table 5
Pier C9 (Top Bar)	#10	14	Table 6
Pier C12	#5	10	Table 5
Pier C12	#10	14	Table 5
Pier C12 (Top Bar)	#10	14	Table 6

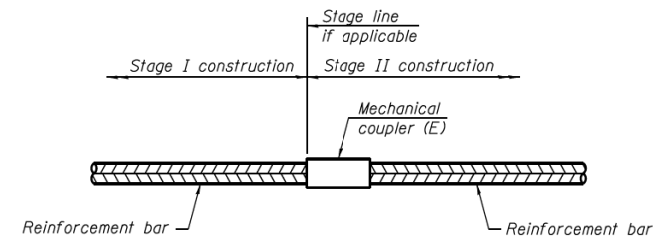


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

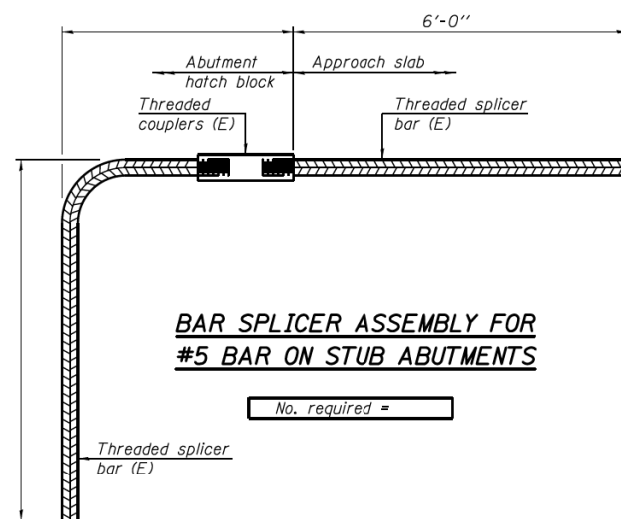
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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.

BSD-1

8-31-12

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BRINCKERHOFF**

USER NAME = poteld	DESIGNED - P.JL	REVISED -
CHECKED - LFC	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
PLOT DATE = 3/23/2016	CHECKED - JIG	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016-0461**

SHEET NO. S2-135 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	412
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

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USER NAME = ahmad,issa	DESIGNED -	REVISED -
CHECKED -	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	REVISED -
PLOT DATE = 7/26/2018	CHECKED - MI, MAI	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

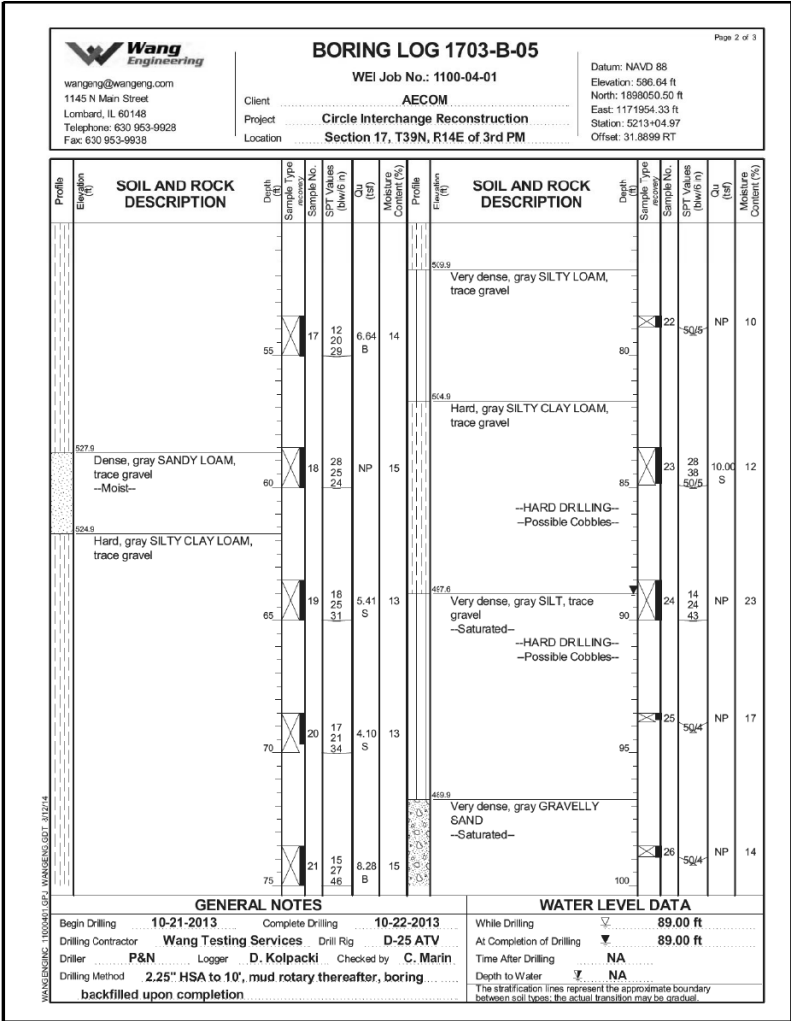
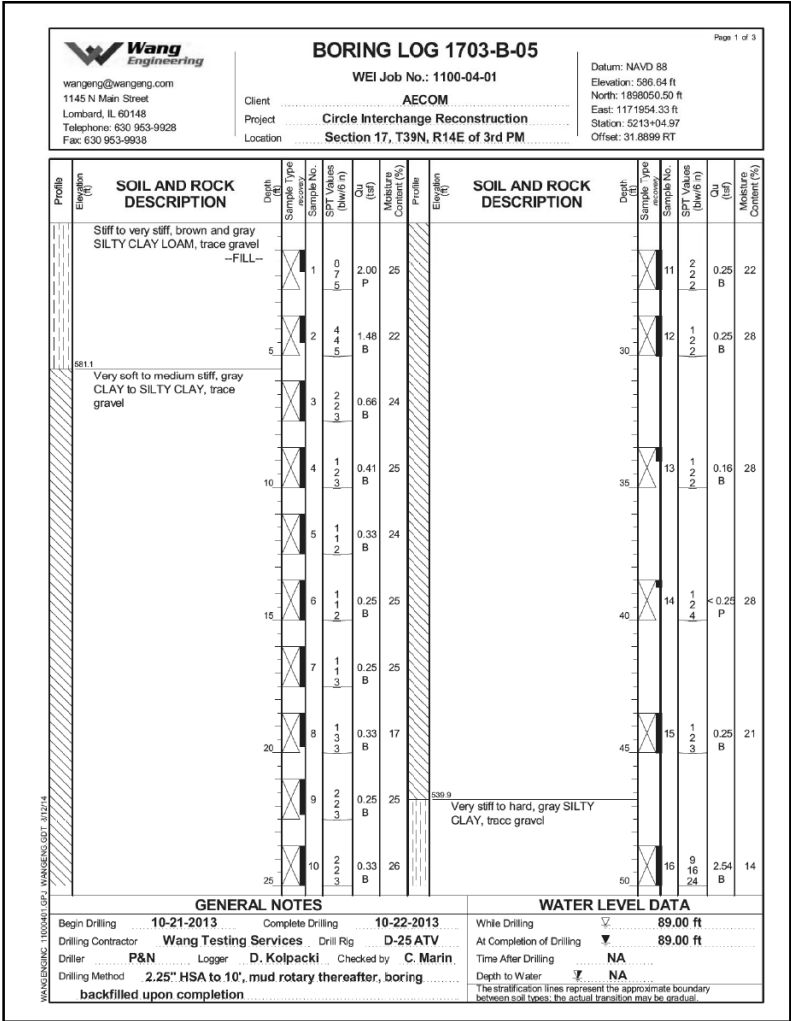
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1777
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

FILE NAME: DWG\617479-PWINT-aecomonline.local\AECOM_D502_NAD\Documents\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing201

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FOR INFORMATION ONLY

FILE NAME: DWG\1617479-PWINT-aecomonline.local\AECOM_D502_NA\Documents\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\60X93-SXX-Existing203

0160461-60X78-S138-BOR.dgn

Wang Engineering wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938		BORING LOG 1715-VS-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: 586.35 ft North: 1898112.83 ft East: 1171916.87 ft Station: 1211+63.80 Offset: 25.6304 LT	
SOIL AND ROCK DESCRIPTION		SOIL AND ROCK DESCRIPTION		SOIL AND ROCK DESCRIPTION	
Drilled without sampling		10-inch thick CONCRETE --PAVEMENT-- 4-inch thick GRAVELLY SAND --BASE COURSE-- Dense, gray, fine SAND --FILL-- Very stiff, gray SILTY CLAY, trace gravel		10-inch thick CONCRETE --PAVEMENT-- 4-inch thick GRAVELLY SAND --BASE COURSE-- Dense, gray, fine SAND --FILL-- Very stiff, gray SILTY CLAY, trace gravel	
In-Situ Vane Shear, 10.0 feet--10 --S _u (undr) = 1036.0 psf-- --S _u (remot) = 543.9 psf-- --Sensitivity = 1.90--		In-Situ Vane Shear, 30.0 feet--30 --S _u (undr) = 828.8 psf-- --S _u (remot) = 466.2 psf-- --Sensitivity = 1.78--		In-Situ Vane Shear, 35.0 feet--35 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 673.4 psf-- --Sensitivity = 1.69--	
In-Situ Vane Shear, 15.0 feet--15 --S _u (undr) = 880.6 psf-- --S _u (remot) = 466.2 psf-- --Sensitivity = 1.89--		In-Situ Vane Shear, 40.0 feet--40 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 725.2 psf-- --Sensitivity = 1.57-- Boring terminated at 40.50 ft		In-Situ Vane Shear, 40.0 feet--40 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 725.2 psf-- --Sensitivity = 1.57-- Boring terminated at 40.50 ft	
In-Situ Vane Shear, 20.0 feet--20 --S _u (undr) = 958.3 psf-- --S _u (remot) = 595.7 psf-- --Sensitivity = 1.61--					
GENERAL NOTES		WATER LEVEL DATA		GENERAL NOTES	
Begin Drilling 03-27-2014 Complete Drilling 03-27-2014		While Drilling ☒ NA		Begin Drilling 03-24-2014 Complete Drilling 03-24-2014	
Drilling Contractor Wang Testing Services Drill Rig D-25 ATV		At Completion of Drilling ☒ NA		Drilling Contractor Wang Testing Services Drill Rig CME-55 TMR	
Driller N&J Logger F. Bozga Checked by C. Marin		Time After Drilling NA		Driller R&N Logger M. de los Reyes Checked by C. Marin	
Drilling Method 3.25" HSA, boring backfilled upon completion		Depth to Water ☒ NA		Drilling Method 2.25" SSA to 12.5', mud rotary thereafter, boring backfilled upon completion	
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.		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 0461-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: 587.18 ft North: 1898107.11 ft East: 1172063.72 ft Station: 1210+23.99 Offset: 19.2353 RT	
SOIL AND ROCK DESCRIPTION		SOIL AND ROCK DESCRIPTION		SOIL AND ROCK DESCRIPTION	
10-inch thick CONCRETE --PAVEMENT-- 4-inch thick GRAVELLY SAND --BASE COURSE-- Dense, gray, fine SAND --FILL-- Very stiff, gray SILTY CLAY, trace gravel		10-inch thick CONCRETE --PAVEMENT-- 4-inch thick GRAVELLY SAND --BASE COURSE-- Dense, gray, fine SAND --FILL-- Very stiff, gray SILTY CLAY, trace gravel		10-inch thick CONCRETE --PAVEMENT-- 4-inch thick GRAVELLY SAND --BASE COURSE-- Dense, gray, fine SAND --FILL-- Very stiff, gray SILTY CLAY, trace gravel	
In-Situ Vane Shear, 10.0 feet--10 --S _u (undr) = 1036.0 psf-- --S _u (remot) = 543.9 psf-- --Sensitivity = 1.90--		In-Situ Vane Shear, 30.0 feet--30 --S _u (undr) = 828.8 psf-- --S _u (remot) = 466.2 psf-- --Sensitivity = 1.78--		In-Situ Vane Shear, 35.0 feet--35 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 673.4 psf-- --Sensitivity = 1.69--	
In-Situ Vane Shear, 15.0 feet--15 --S _u (undr) = 880.6 psf-- --S _u (remot) = 466.2 psf-- --Sensitivity = 1.89--		In-Situ Vane Shear, 40.0 feet--40 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 725.2 psf-- --Sensitivity = 1.57-- Boring terminated at 40.50 ft		In-Situ Vane Shear, 40.0 feet--40 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 725.2 psf-- --Sensitivity = 1.57-- Boring terminated at 40.50 ft	
In-Situ Vane Shear, 20.0 feet--20 --S _u (undr) = 958.3 psf-- --S _u (remot) = 595.7 psf-- --Sensitivity = 1.61--					
GENERAL NOTES		WATER LEVEL DATA		GENERAL NOTES	
Begin Drilling 03-24-2014 Complete Drilling 03-24-2014		While Drilling ☒ NA		Begin Drilling 03-24-2014 Complete Drilling 03-24-2014	
Drilling Contractor Wang Testing Services Drill Rig CME-55 TMR		At Completion of Drilling ☒ NA		Drilling Contractor Wang Testing Services Drill Rig CME-55 TMR	
Driller R&N Logger M. de los Reyes Checked by C. Marin		Time After Drilling NA		Driller R&N Logger M. de los Reyes Checked by C. Marin	
Drilling Method 2.25" SSA to 12.5', mud rotary thereafter, boring backfilled upon completion		Depth to Water ☒ NA		Drilling Method 2.25" SSA to 12.5', mud rotary thereafter, boring backfilled upon completion	
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.		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 0461-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: 587.18 ft North: 1898107.11 ft East: 1172063.72 ft Station: 1210+23.99 Offset: 19.2353 RT	
SOIL AND ROCK DESCRIPTION		SOIL AND ROCK DESCRIPTION		SOIL AND ROCK DESCRIPTION	
10-inch thick CONCRETE --PAVEMENT-- 4-inch thick GRAVELLY SAND --BASE COURSE-- Dense, gray, fine SAND --FILL-- Very stiff, gray SILTY CLAY, trace gravel		10-inch thick CONCRETE --PAVEMENT-- 4-inch thick GRAVELLY SAND --BASE COURSE-- Dense, gray, fine SAND --FILL-- Very stiff, gray SILTY CLAY, trace gravel		10-inch thick CONCRETE --PAVEMENT-- 4-inch thick GRAVELLY SAND --BASE COURSE-- Dense, gray, fine SAND --FILL-- Very stiff, gray SILTY CLAY, trace gravel	
In-Situ Vane Shear, 10.0 feet--10 --S _u (undr) = 1036.0 psf-- --S _u (remot) = 543.9 psf-- --Sensitivity = 1.90--		In-Situ Vane Shear, 30.0 feet--30 --S _u (undr) = 828.8 psf-- --S _u (remot) = 466.2 psf-- --Sensitivity = 1.78--		In-Situ Vane Shear, 35.0 feet--35 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 673.4 psf-- --Sensitivity = 1.69--	
In-Situ Vane Shear, 15.0 feet--15 --S _u (undr) = 880.6 psf-- --S _u (remot) = 466.2 psf-- --Sensitivity = 1.89--		In-Situ Vane Shear, 40.0 feet--40 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 725.2 psf-- --Sensitivity = 1.57-- Boring terminated at 40.50 ft		In-Situ Vane Shear, 40.0 feet--40 --S _u (undr) = 1139.6 psf-- --S _u (remot) = 725.2 psf-- --Sensitivity = 1.57-- Boring terminated at 40.50 ft	
In-Situ Vane Shear, 20.0 feet--20 --S _u (undr) = 958.3 psf-- --S _u (remot) = 595.7 psf-- --Sensitivity = 1.61--					
GENERAL NOTES		WATER LEVEL DATA		GENERAL NOTES	
Begin Drilling 03-24-2014 Complete Drilling 03-24-2014		While Drilling ☒ NA		Begin Drilling 03-24-2014 Complete Drilling 03-24-2014	
Drilling Contractor Wang Testing Services Drill Rig CME-55 TMR		At Completion of Drilling ☒ NA		Drilling Contractor Wang Testing Services Drill Rig CME-55 TMR	
Driller R&N Logger M. de los Reyes Checked by C. Marin		Time After Drilling NA		Driller R&N Logger M. de los Reyes Checked by C. Marin	
Drilling Method 2.25" SSA to 12.5', mud rotary thereafter, boring backfilled upon completion		Depth to Water ☒ NA		Drilling Method 2.25" SSA to 12.5', mud rotary thereafter, boring backfilled upon completion	
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	

**PARSONS
BRINCKERHOFF**

USER NAME = poteld	DESIGNED - P.J.L	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AH	REVISED -
PLOT DATE = 3/23/2016	DRAWN - DCP	REVISED -
	CHECKED - JTG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS III
STRUCTURE NO. 016-0461

SHEET NO. S2-138 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	415
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

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USER NAME = ahmad,issa	DESIGNED -	REVISED -
PLOT SCALE = N.T.S	CHECKED -	REVISED -
PLOT DATE = 7/26/2018	DRAWN - MI, MAI	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1780
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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NO

**PARSONS
BRINCKERHOFF**

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FILE NAME: pw:\617479-PWINT.aecomonline.local\AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000 CAD\008 Structural\Structure 016-1718\Existing Plans\33906-60\X93-SXX-Existing.205

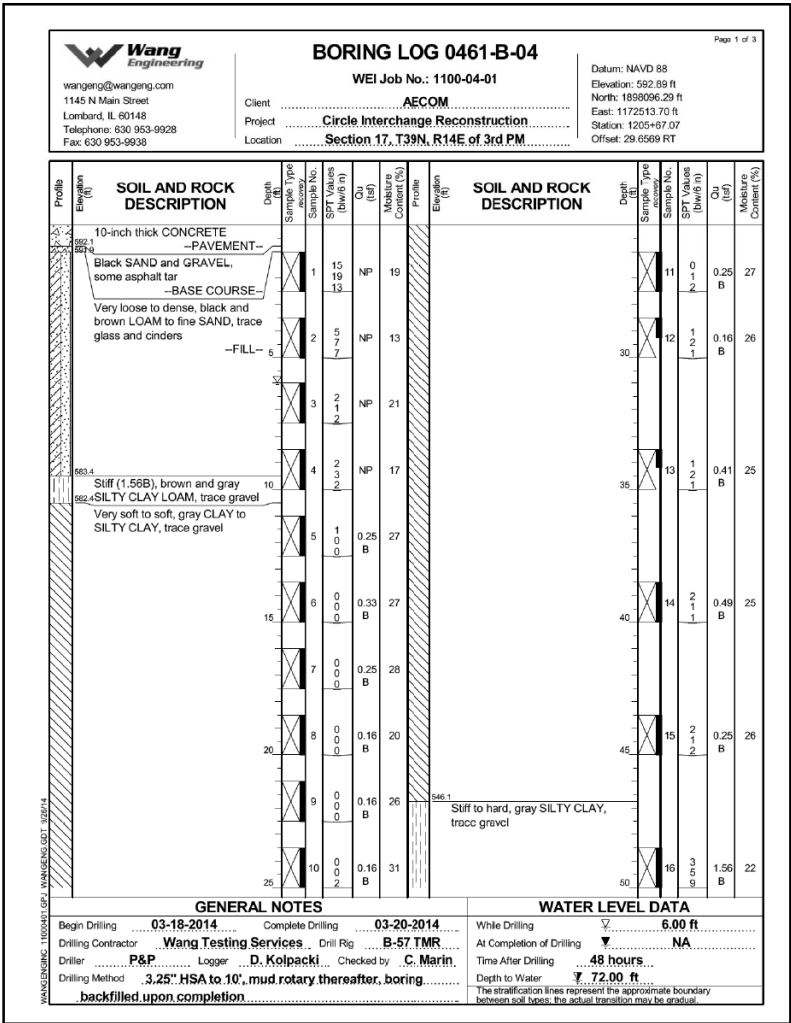
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BRINCKERHOFF**

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FILE NAME: DWG\161749-PWINT-aecomonline.local\AECOM_D502_NAD\Documents\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing206

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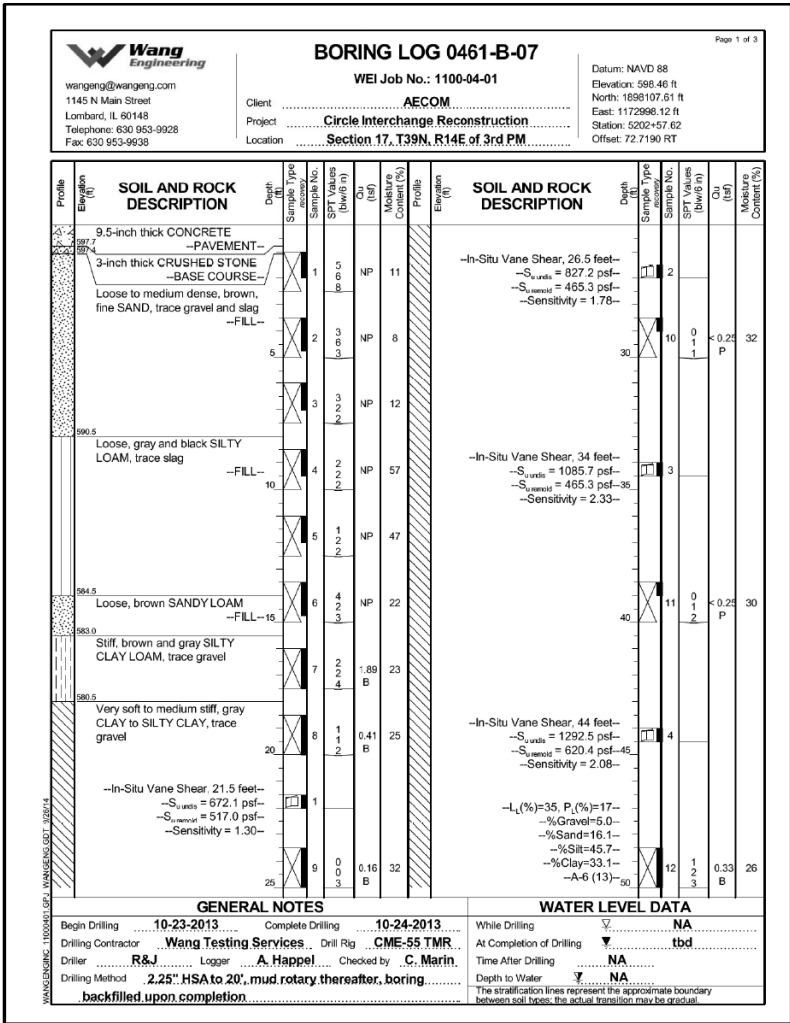
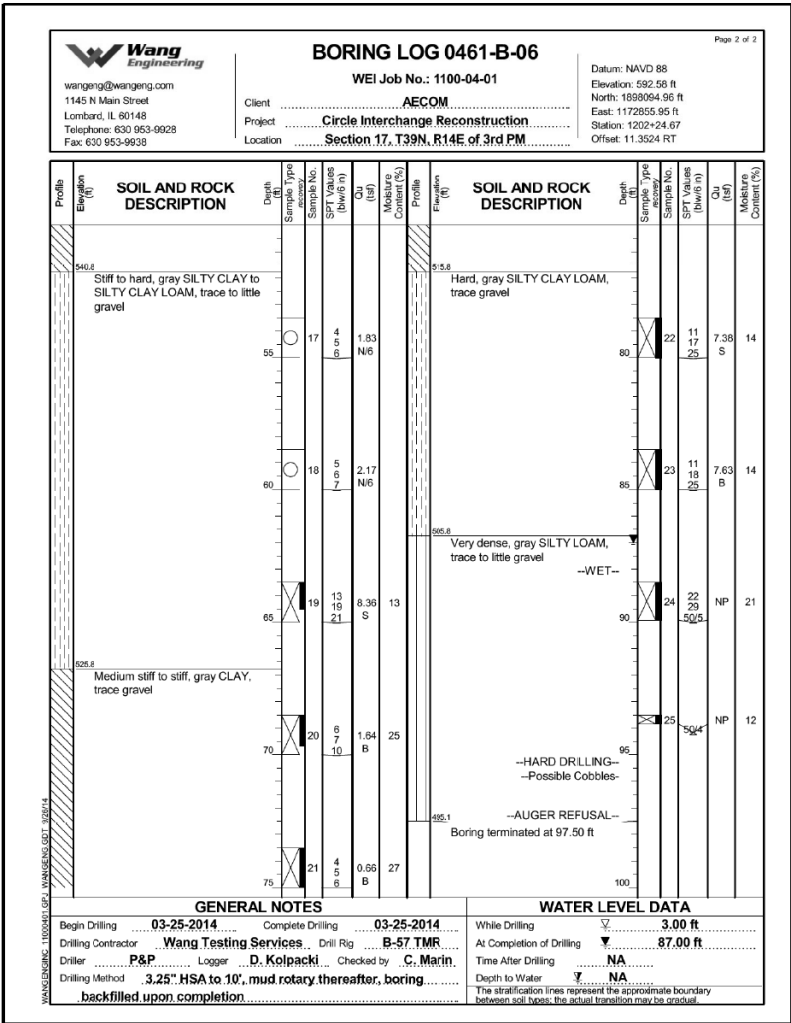
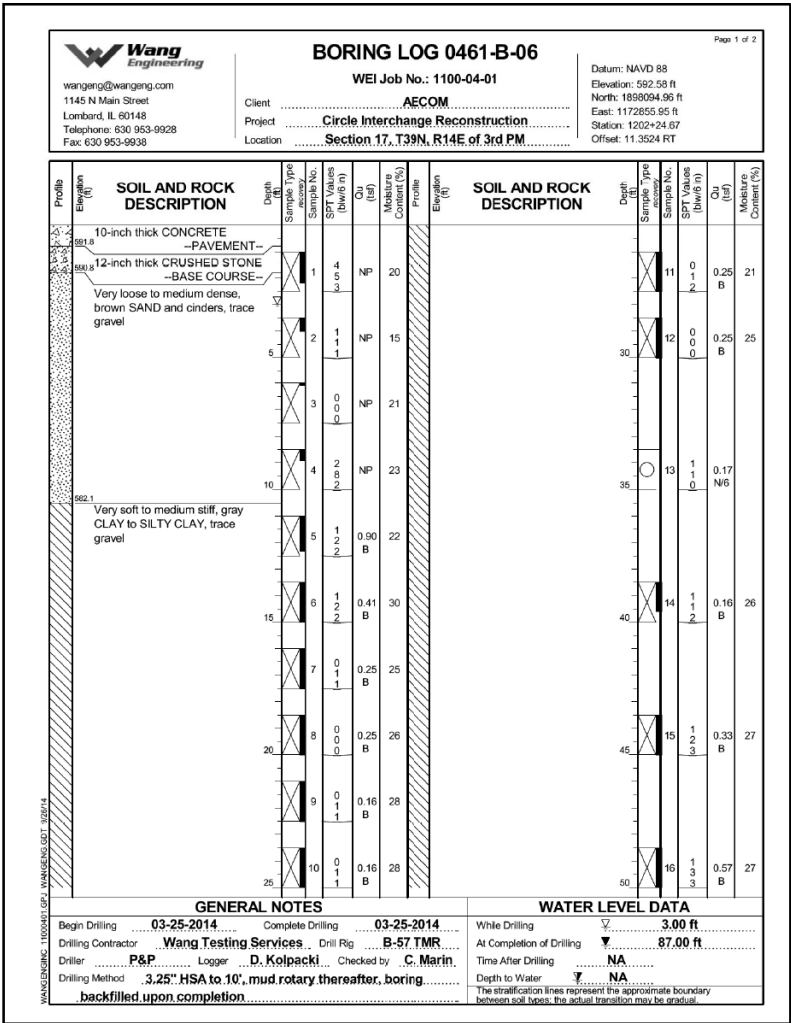
0160461-60X78-S142-BOR.dgn

Wang Engineering wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938		BORING LOG 0461-B-05 WEI Job No.: 1100-04-01		Datum: NAVD 88 Elevation: 593.15 ft North: 1898099.49 ft East: 1172659.59 ft Station: 1204+21.15 Offset: 29.1659 RT	
Client: AECOM		Project: Circle Interchange Reconstruction		Location: Section 17, T39N, R14E, of 3rd PM	
SOIL AND ROCK DESCRIPTION		SOIL AND ROCK DESCRIPTION		SOIL AND ROCK DESCRIPTION	
9-inch thick CONCRETE 12-inch thick CRUSHED STONE BASE COURSE Medium dense, brown and gray SAND to SANDY LOAM, trace cinders and construction debris FILL Black, strong odor Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel		11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 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1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 			

FOR INFORMATION ONLY

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0160461-60X78-S143-BOR.dgn



PARSONS BRINCKERHOFF

USER NAME = poteld	DESIGNED - P.JL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AH	REVISED -
PLOT DATE = 3/23/2016	DRAWN - DCP	REVISED -
	CHECKED - JTG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS VIII
STRUCTURE NO. 016-0461

SHEET NO. S2-143 OF S2-145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-004 R&B (WB)	COOK	706	420
CONTRACT NO. 60X78				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

USER NAME = ahmad,issa	DESIGNED -	REVISED -
PLOT SCALE = N.T.S	CHECKED -	REVISED -
PLOT DATE = 7/26/2018	DRAWN - MI, MAI	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1785
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FILE NAME: pw:\617479-PWINT.aecomonline.local\AECOM_D502_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000 CAD\008 Structural\Structure 016-1718\Existing Plans\33906-60X93-SXX-Existing.209

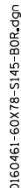
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ERU
NO

**PARSONS
BRINCKERHOFF**

HBM
ENGINEERING GROUP, LLC

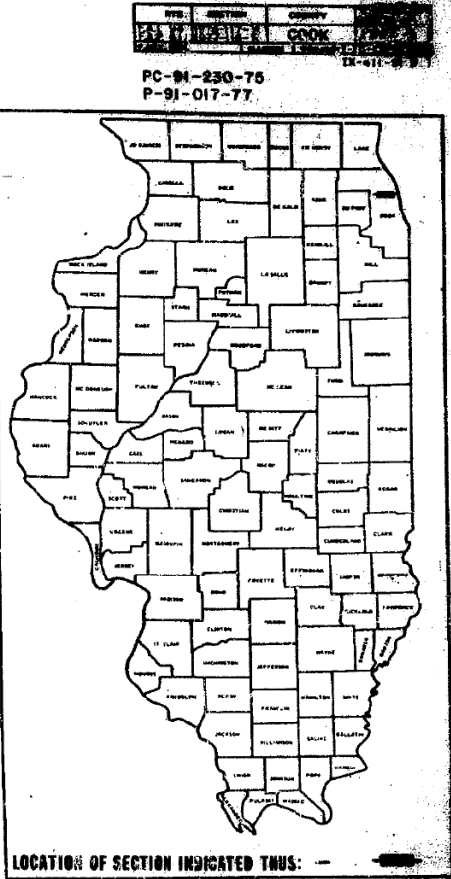
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FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY
CIRCLE INTERCHANGE
F.A.I. ROUTE 94 F.A.P. ROUTE 411
SECTION 1975-117-R SECTION 1977-116-R
PROJECT I-IX-94-3(239)51 PROJECT IX-411-5(3)
C-91-114-79 C-91-229-75
COOK COUNTY

FOR INDEX OF SHEETS
SEE SHEET NO. 2



BEGIN PROJECT I-IX-94-3(239)51
SECTION 1975-117-R
STA. 346 + 00
BEGIN IMPROVEMENT

END PROJECT I-IX-94-3(239)51
SECTION 1975-117-R
BEGIN PROJECT IX-411-5(3)
SECTION 1977-116-R
STA. 373 + 03.56

STATION EQUATIONS
EASTBOUND
STA. 353 + 77.15 BACK +
STA. 353 + 77.23 AHEAD
WESTBOUND
STA. 352 + 62.70 BACK +
STA. 352 + 62.84 AHEAD

END PROJECT IX-411-5(3)
SECTION 1977-116-R
STA. 389 + 50
END IMPROVEMENT

CIRCLE INTERCHANGE STRUCTURE, MAINLINE AND RAMPS, INCLUDES
REPAIR OF SUBSTRUCTURE AND SUPERSTRUCTURE, REMOVAL AND
REPLACEMENT OF DECK SPANS WHICH CARRIES EIGHT LANES OF
F.A.I. RTE. 94 (EISENHOWER EXPRESSWAY) OVER DAN RYAN
EXPRESSWAY THRU THE U.S. POST OFFICE BLDG., OVER R.R. SPURS,
CHICAGO RIVER, AND FRANKLIN ST.

APPROVED
FOR STRUCTURAL FREQUENCY ONLY

GROSS LENGTH OF IMPROVEMENT = 4,249.92 LIN. FT. 0.800 MILES
NET LENGTH OF IMPROVEMENT = 4,249.92 LIN. FT. 0.800 MILES
NET LENGTH OF PROJECTS
I-IX-94-3(239)51 = 2,708.48 FT. (0.512 MILES)
IX-411-5(3) = 1,541.44 FT. (0.292 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: 5-2 11-77
EXAMINED: 3-26 10-80
PASSED: 3-20 11-82
APPROVED: 3-20 11-82

CONTRACT NO. 33906

COOK COUNTY

HBM
ENGINEERING GROUP, LLC

USER NAME =	ahmad,issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	REVISED -
PLOT DATE =	7/26/2018	CHECKED -	REVISED -
		MI, MAI	

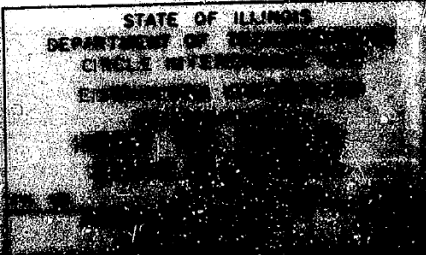
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1788
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

INDEX OF SHEETS		STATE STANDARDS	
SHEET NO.		STANDARD NO.	
1	TITLE SHEET	1686-4	
2	INDEX OF SHEETS, STATE STANDARDS	1856-2	
3	GENERAL NOTES	2347-1	
4-11	SUMMARY OF QUANTITIES	2116-2	
12	LOCATION OF IMPROVEMENT	2130-6	
13	TYPICAL CROSS SECTIONS-ROADWAY AND CONCRETE BARRIER WALL DETAIL	2168-8	
14	DELETED	2230-13	
15-24	ROADWAY PLANS	2256-8	
25-26	ROADWAY DETAILS	2259-6	
26A,B,C	TEMPORARY CONC.BARRIER, BARRIER DELINEATOR DETAILS & FRAME & GRATE, TYPE V	2298-5	
27-29	GENERAL LOCATION-BRIDGE PLANS	2299-8	
30-35	NORTH-EAST RAMP	2300-2	
36-40	WEST-NORTH RAMP	2319-3	
41-47	NORTH-WEST RAMP	2320-3	
48-56	EAST-NORTH RAMP	2323-5	
57-69	SOUTH-EAST RAMP	2326-3	
70-85	WEST-SOUTH RAMP	2327-5	
(INCLS.93A) 86-94	JOINT DETAILS	2336-2	
95-97	EXPANSION BEARINGS	2337-1	
98-105	ABUTMENT 1 TO BENT C1	2340-8	
106-111	BENT C1 TO BENT C4 (INCLS. 106A, 106B, 111A)	2341-1	
112-120	BENT C4 TO BENT C9	TS-2187-6	
121-131	BENT C9 TO BENT C12	TS-2173-3	
132-144	BENT C12 TO BENT C17	TS-1342	
145-151	I-90 UNDER U.S. POST OFFICE		
152-153	CANAL STREET RAMPS AND APPROACH STRUCTURES		
154-155	LOWER DECK UNDER THE POST OFFICE		
156-158	VIADUCT STRUCTURE - POST OFFICE TO RIVER		
159-161	WELLS PLAZA STRUCTURE (INCLS. 161A THRU 161E, 161AA THRU 161EE)		
(Sh.162 Deleted) 162,A	PIER REPAIRS		
163-183A	BASCULE BRIDGE		
184-189	PAVEMENT MARKING		
(INCLS. 193A) 190-218A	TRAFFIC STAGING, CONTROL AND PROTECTION		
219-271	STAGING PLANS		
(INCLS. 275A,B,C) 272-289	SHORELINE PLANS		
(INCLS. 290A,B) 290-294	LIABILITY PLANS		



FILE NAME: DWG\161749-PWINT-accomonline.local\AECOM_D502_NA\Documents\01_Americas\Transportation\60269938_CirclePhase_I\0000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing301



USER NAME =	ahmad,issa	DESIGNED -	REVISED -
		CHECKED -	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	REVISED -
PLOT DATE =	7/26/2018	CHECKED -	REVISED -
		MI, MAI	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1789
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

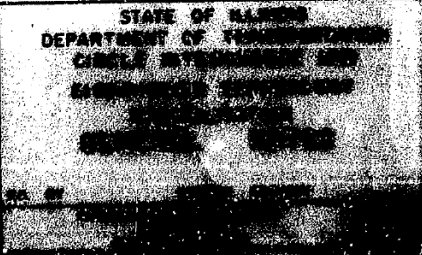
FOR INFORMATION ONLY

GENERAL NOTES

ROUTE NO.	SECTION	DATE
F.A.I. 96	104-013R	08-27-96
FED. ROAD DIST. NO. 7	ILLINOIS	

1. ALL FRAMES AND GRATES AND DELINEATORS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
2. PAVEMENT MARKING: ALL PAVEMENT MARKING PROPOSED WITHIN THE WORK AREA SHALL BE COMPLETED PRIOR TO CONSTRUCTION PHASE CHANGE.
3. ADDED EXPENSE WHICH WILL BE INVOLVED IN CONNECTING EXISTING DRAIN TILES, DRAINAGE STRUCTURES, PIPE CULVERTS OR STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT OR AS NOTED ON PLAN.
4. FLUORESCENT VEST: ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT ORANGE VEST AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
5. THE STANDARD DRAWINGS LISTED IN THE PLAN INDEX IS INTENDED TO BE THE LATEST REVISION. IT SHALL HOLD PRECEDENCE OVER EARLIER REVISIONS THAT MAY BE REFERRED TO ELSEWHERE IN THE PLANS OR IN THE SPECIAL PROVISIONS.
6. FIELD INSPECTION PRIOR TO BIDDING: IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE PROJECT SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS.
7. DELETED
8. QUANTITIES: QUANTITIES SHOWN ON THE PLANS ARE BASED ON FIELD INSPECTION AT THE TIME OF PLAN PREPARATION AND ARE TO BE USED FOR PREPARATION PROPOSALS. HOWEVER, AS DETERMINED BY THE ENGINEER, QUANTITIES MAY CHANGE BASED UPON CONDITIONS UNCOVERED AT THE TIME OF CONSTRUCTION.
9. SCALE: DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
10. NIGHT OPERATIONS: WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS THE ADJOINING RESIDENTIAL AREAS.
11. FENCE: EXISTING FENCE THAT HAS TO BE DISCONNECTED AND/OR REMOVED FOR THE CONTRACTOR'S OPERATIONS OR DAMAGED BY THE CONTRACTOR SHALL BE RECONNECTED AND/OR REPLACED IN KIND AT NO ADDITIONAL COST TO THE CONTRACT.
12. ANY DAMAGE TO THE REINFORCEMENT BARS AS A RESULT OF THE CONTRACTOR'S CONCRETE SAWING AND/OR CONCRETE REMOVAL OPERATION SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
13. ALL TRAFFIC CONTROL AND PROTECTION DEVICES SHALL BE CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT.
14. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHARACTERIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN THIRTY (30) MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION.
15. NEOPRENE BEARING: NEOPRENE BEARING IS TO BE REMOVED AND NEW CONCRETE IS TO BE PLACED ADJACENT TO IT. EXISTING REINFORCEMENT SHALL BE CLEANED AND EXTENDED INTO THE NEW CONSTRUCTION. COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

16. EQUIPMENT: ALL DISTRIBUTORS FOR BITUMINOUS PRIMING AND SEAL COATING OPERATIONS SHALL BE EQUIPPED WITH SHIELDS TO PREVENT CONTAMINATION OF ADJACENT HIGHWAY APPURTENANCES. SHIELDS SHALL MEET WITH THE ENGINEER'S APPROVAL.
17. BARRICADES: THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED, TYPE I OR TYPE II.
18. STORAGE SITE: THE STORAGE SITE WITHIN THE R.O.W. OF IMPROVEMENT, FOR SALVAGED GUARD RAIL, FRAMES AND GRATES SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR. THIS ITEM WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO THE CONTRACT.
19. ASPHALT SAWING: THE COST OF SAWING ASPHALT SURFACES SHALL BE CONSIDERED INCIDENTAL TO THE ITEM OF WORK BEING PERFORMED.
20. SAWING OF PORTLAND CEMENT CONCRETE PAVEMENT OR DECK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS IN WHICH SAWING IS REQUIRED.
21. WHEN RESURFACING ADJACENT TO JOINT MODIFICATION, THE CONTRACTOR WILL BE REQUIRED TO TAKE SPECIAL CARE WHEN COMPACTING THE BITUMINOUS MATERIALS. THE METHODS USED FOR COMPACTING SHALL MEET THE APPROVAL OF THE ENGINEER.
22. FULL DEPTH PATCH (PAVEMENT AND BRIDGES): THE CONTRACTOR WILL NOT BE ALLOWED TO BEND REINFORCEMENT BARS FROM THE ORIGINAL POSITION.
23. DRAINAGE STRUCTURE GRAPES SHALL BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS.
24. IN ORDER TO PREVENT FRACTURE OF THE DECK, ALL HAND AND MECHANICAL TOOLS USED FOR REMOVING THE SURFACE CONCRETE FROM THE BRIDGE DECKS SHALL BE LIMITED TO 25 POUNDS UNLESS OTHERWISE APPROVED BY THE ENGINEER OR INCLUDED IN SPECIAL PROVISIONS.
25. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, RESURFACING SHALL EXTEND FACE TO FACE OF CURBS.
26. PAVING ASPHALT (PAF-2) SHALL BE USED IN SEALING EDGES OF PROPOSED RESURFACING THAT TERMINATE WITH THE CURB, GUTTER OF CONCRETE WALL OR RAILING. THIS ITEM OF WORK WILL BE CONSIDERED AS INCIDENTAL TO THE ITEM OF BITUMINOUS CONCRETE SURFACE COURSE CLASS 1.
27. WHERE BEARING ADJUSTMENTS ARE REQUIRED AND JACKING IS NECESSARY IN PERFORMANCE OF THIS WORK, THE CONTRACTOR SHALL SCHEDULE THE WORK SO THAT THE BEARING ADJUSTMENTS ARE COMPLETED PRIOR TO PLACEMENT OF NEOPRENE EXPANSION JOINTS ABOVE THESE LOCATIONS.
28. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO MINOR CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EACH DIMENSION FURNISHED IN THE FIELD AND MAKE NECESSARY ADJUSTMENTS. DIMENSIONS SHALL BE TAKEN TO CENTERLINE OF STRUCTURE UNLESS OTHERWISE NOTED. SUCH VARIATIONS SHALL NOT BE CONSIDERED THE CONTRACTOR'S RESPONSIBILITY. UNLESS THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE SHOWN ON THE BIDS.



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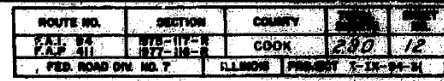
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EXISTING RECORD DRAWINGS

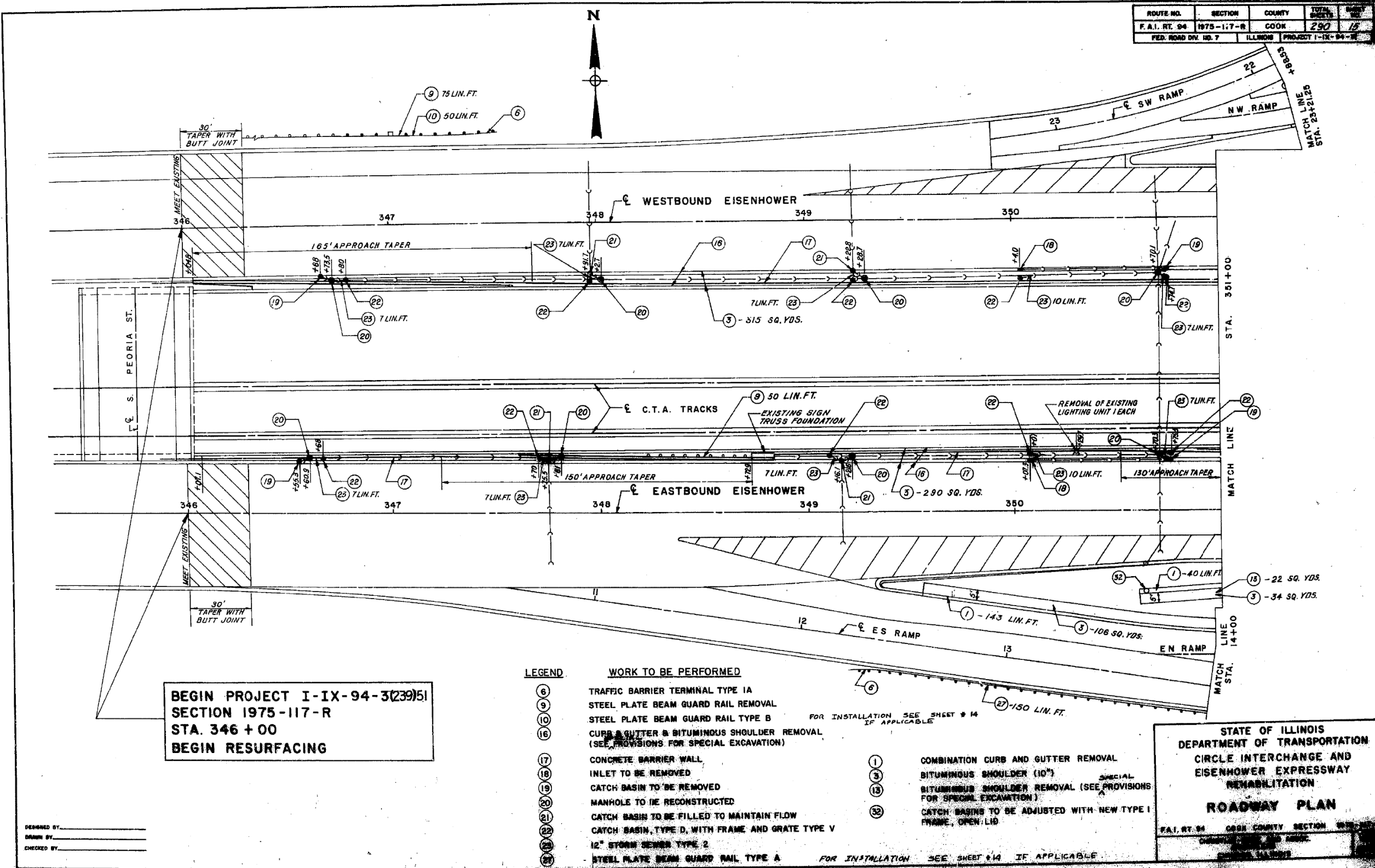
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

LOCATION OF IMPROVEMENT

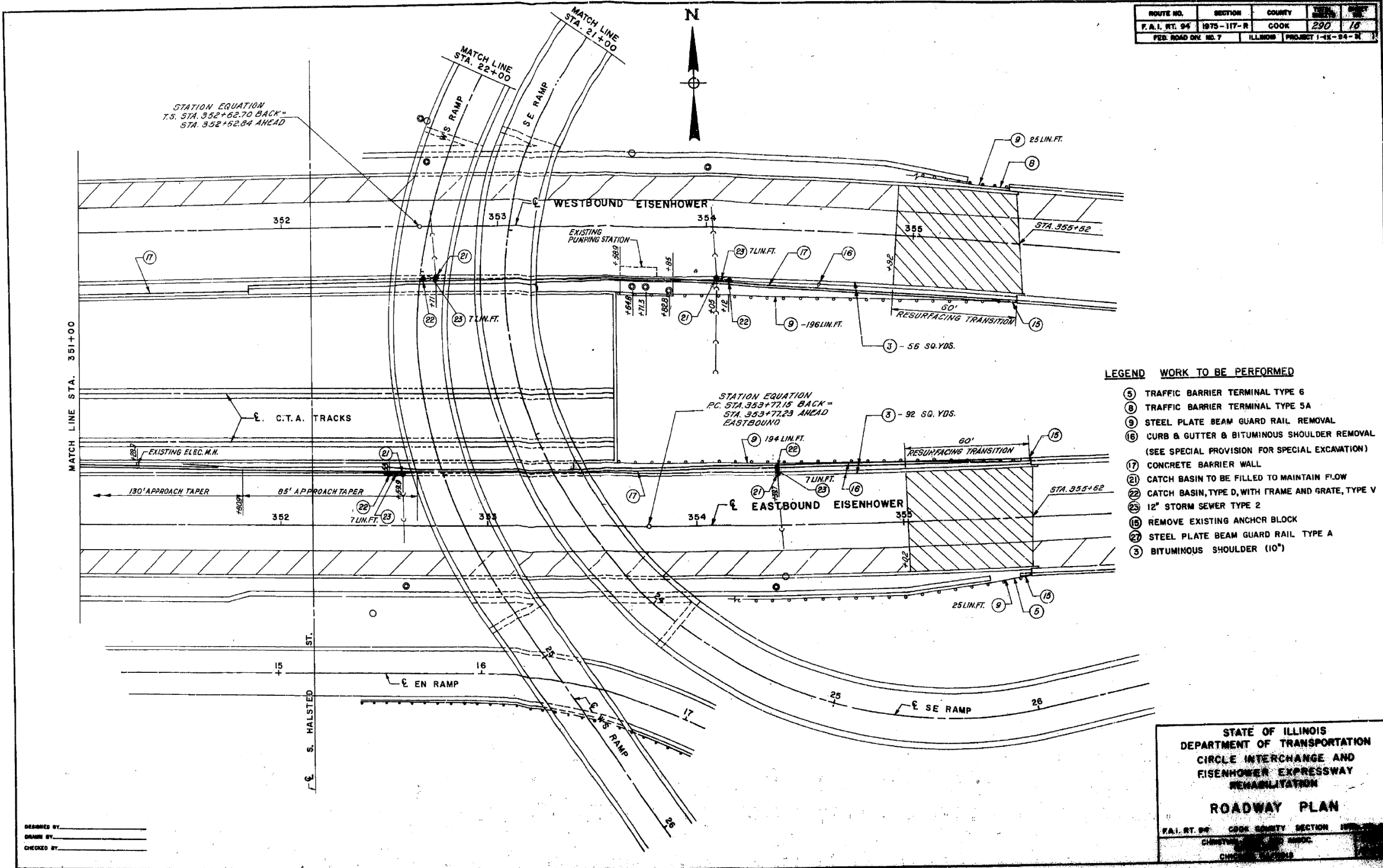


STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	
CIRCLE INTERCHANGE AND	
EISENHOWER EXPRESSWAY	
REHABILITATION	
LOCATION OF IMPROVEMENT	
FA. RT.	COOK COUNTY DISTRICT
CIRCLE INTERCHANGE AND EXPRESSWAY	SECTION
CHICAGO, ILLINOIS	SECTION

FOR INFORMATION ONLY



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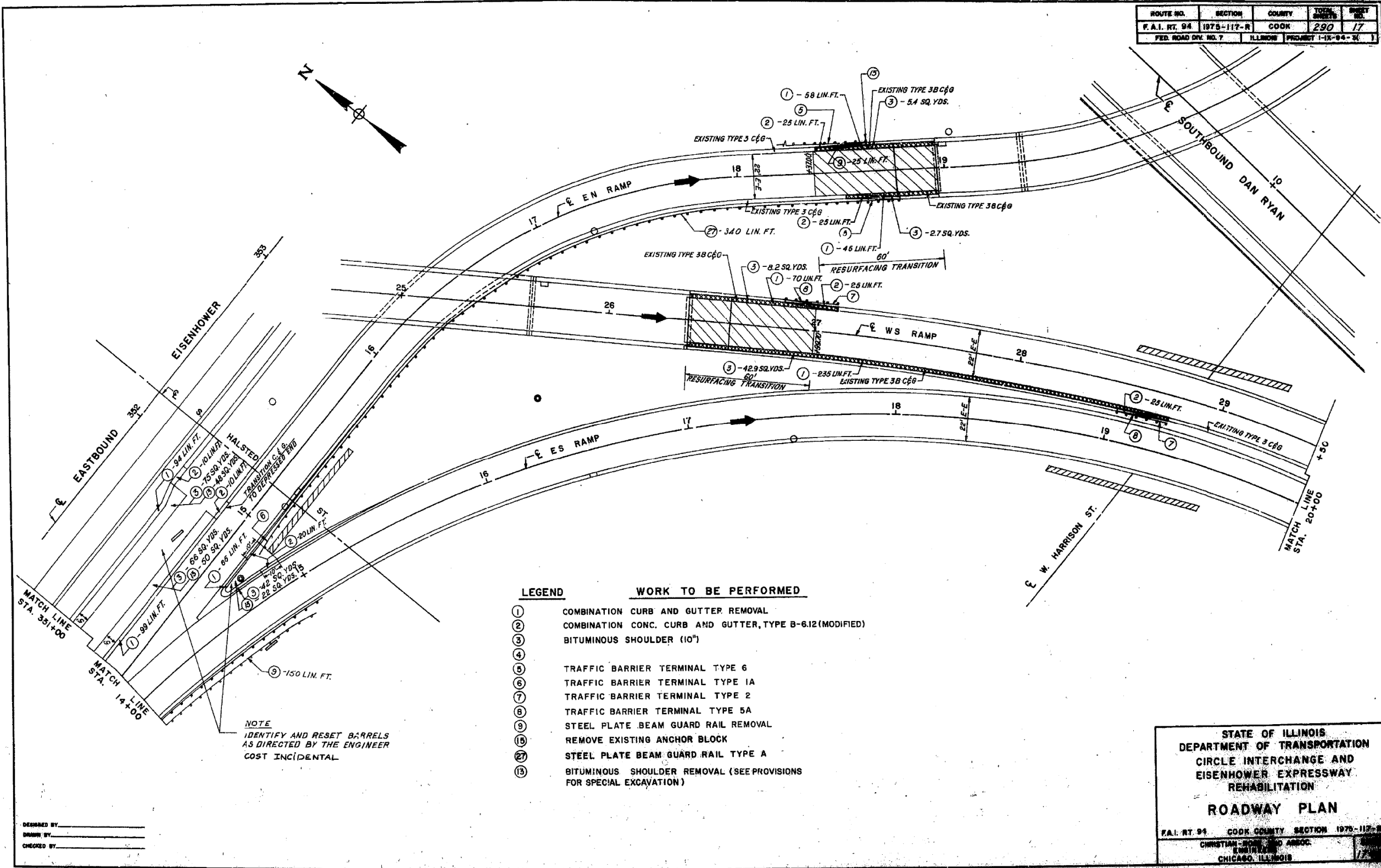
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EXISTING RECORD DRAWINGS

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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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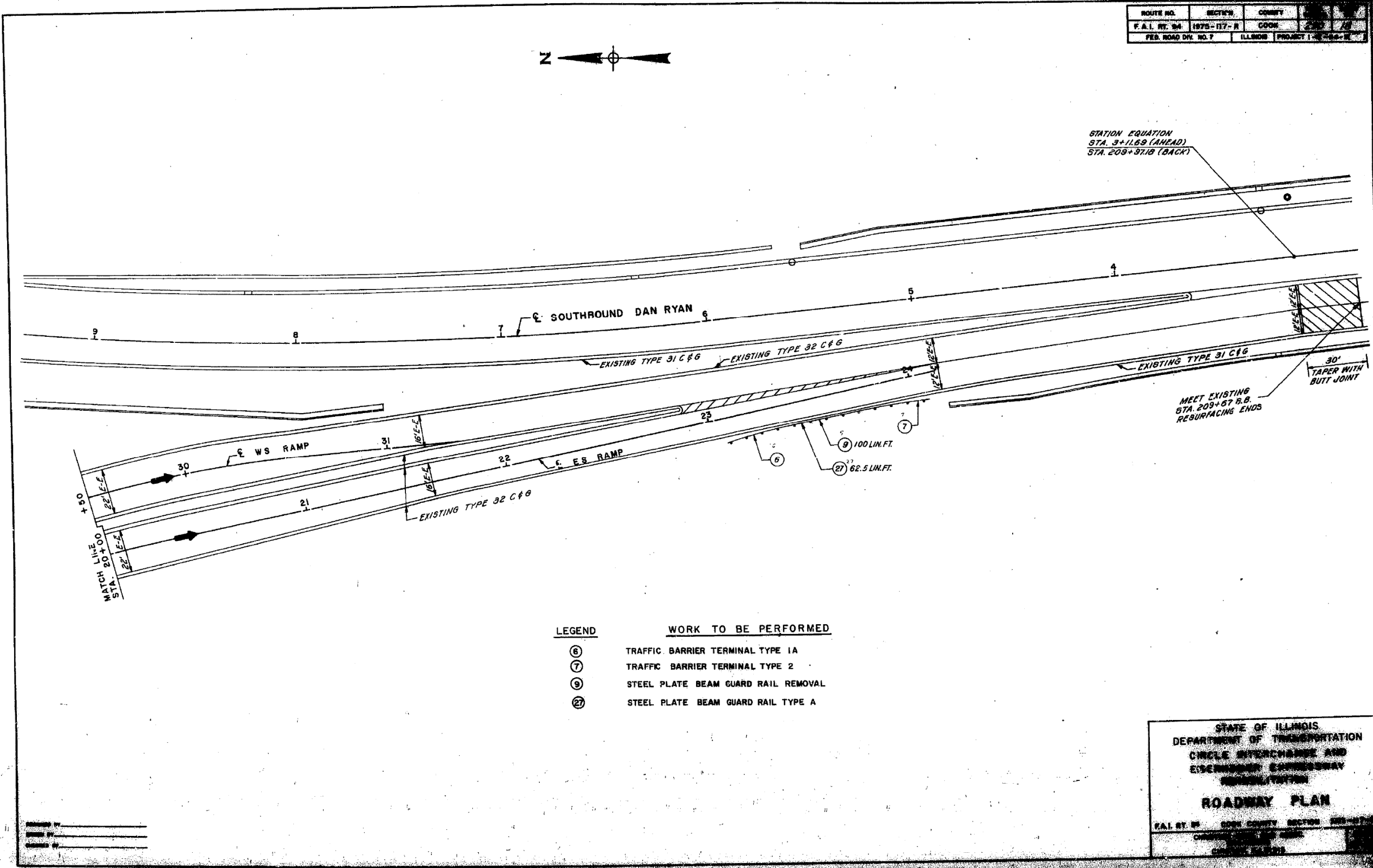
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STATE OF ILLINOIS
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EXISTING RECORD DRAWINGS

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ILLINOIS FED. AID PROJECT				

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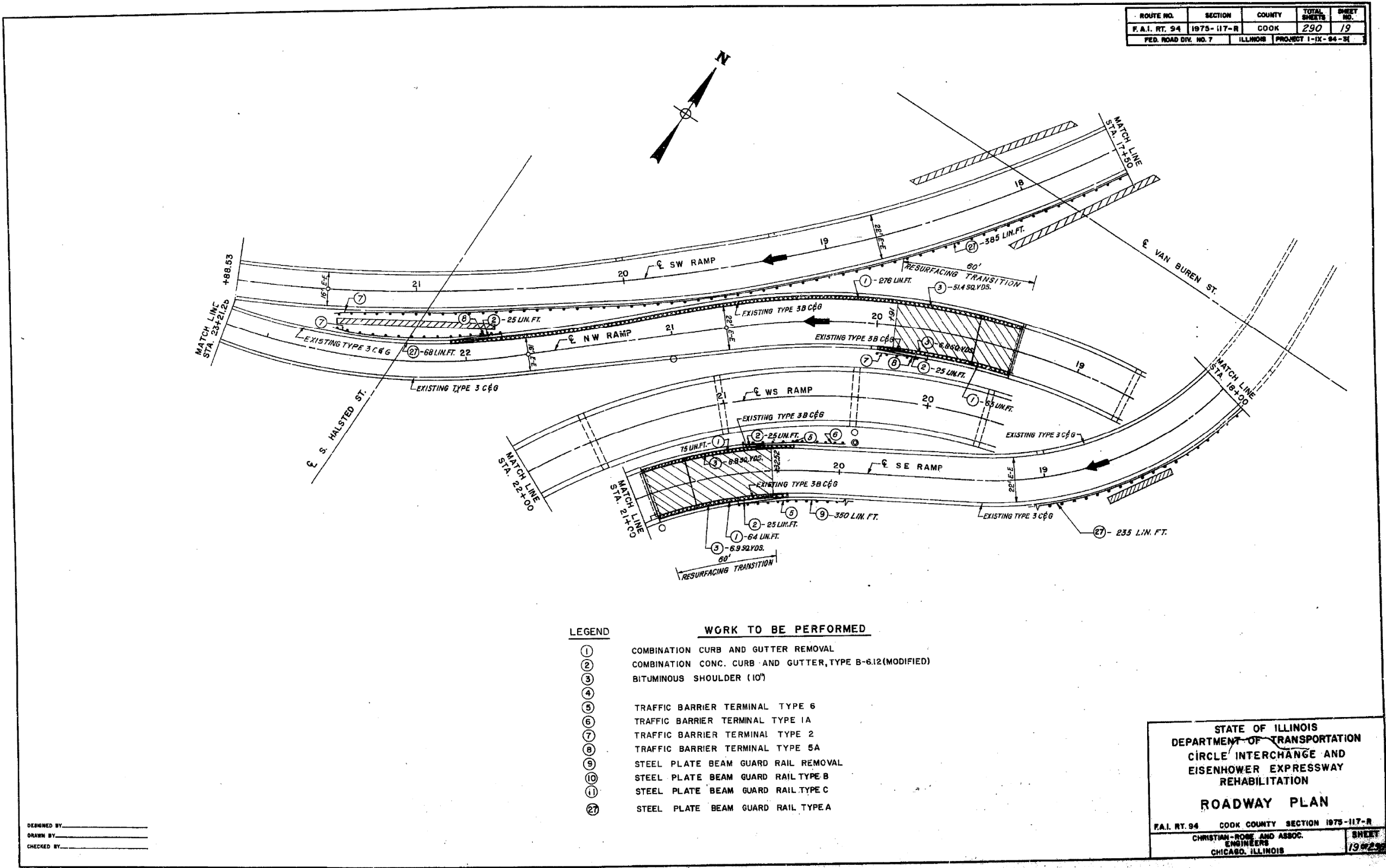
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EXISTING RECORD DRAWINGS

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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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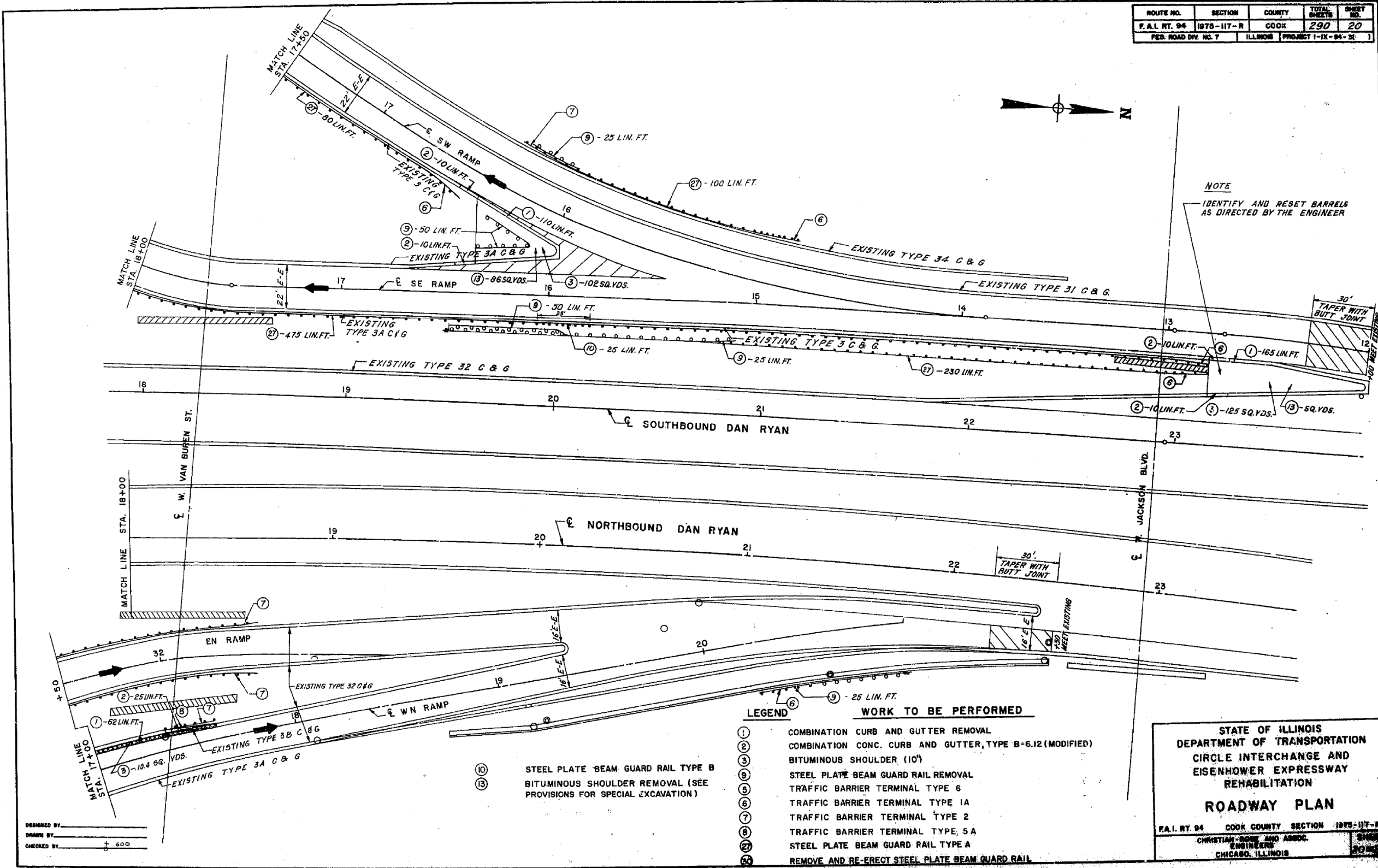
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DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

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ILLINOIS FED. AID PROJECT				

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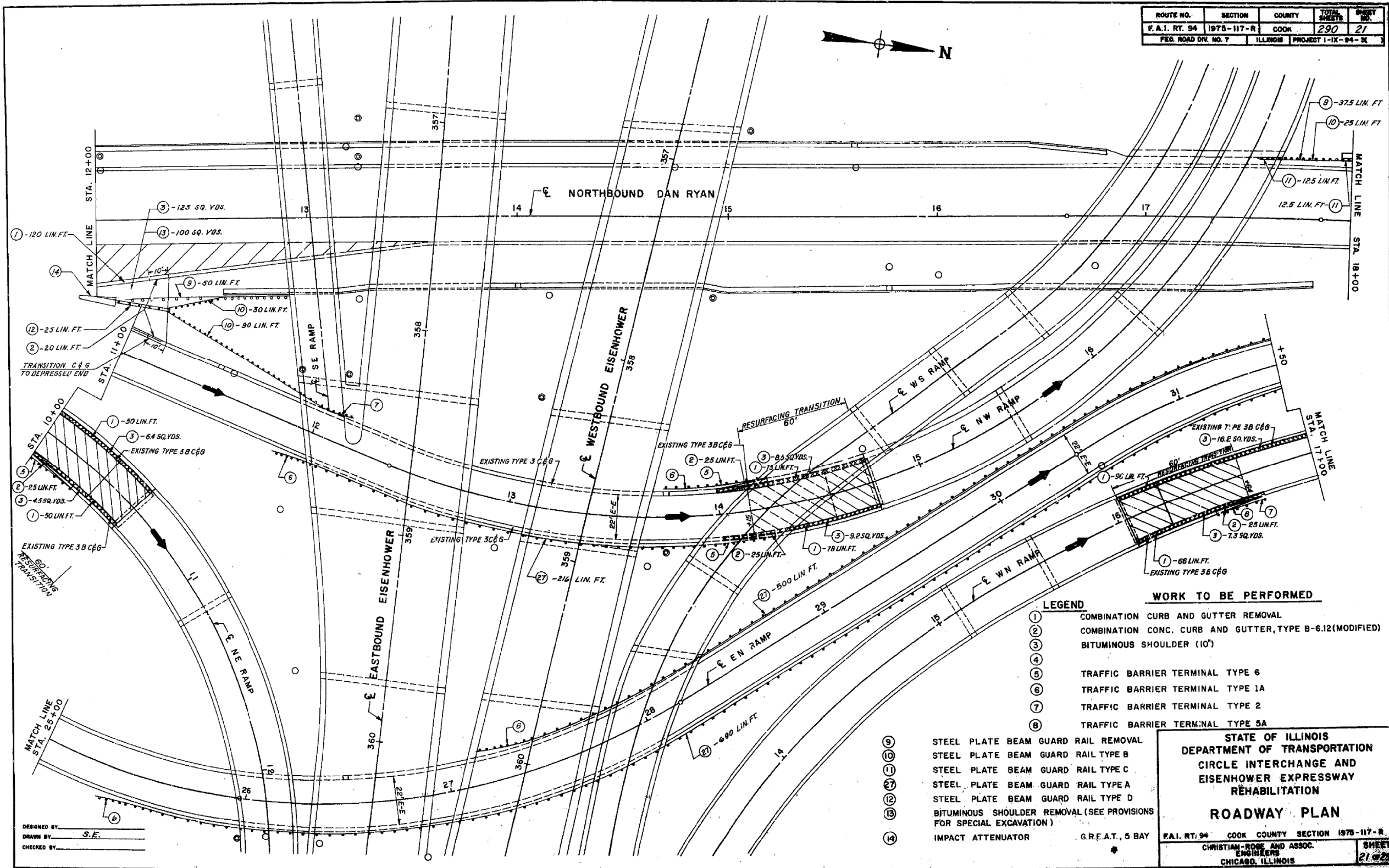
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DEPARTMENT OF TRANSPORTATION

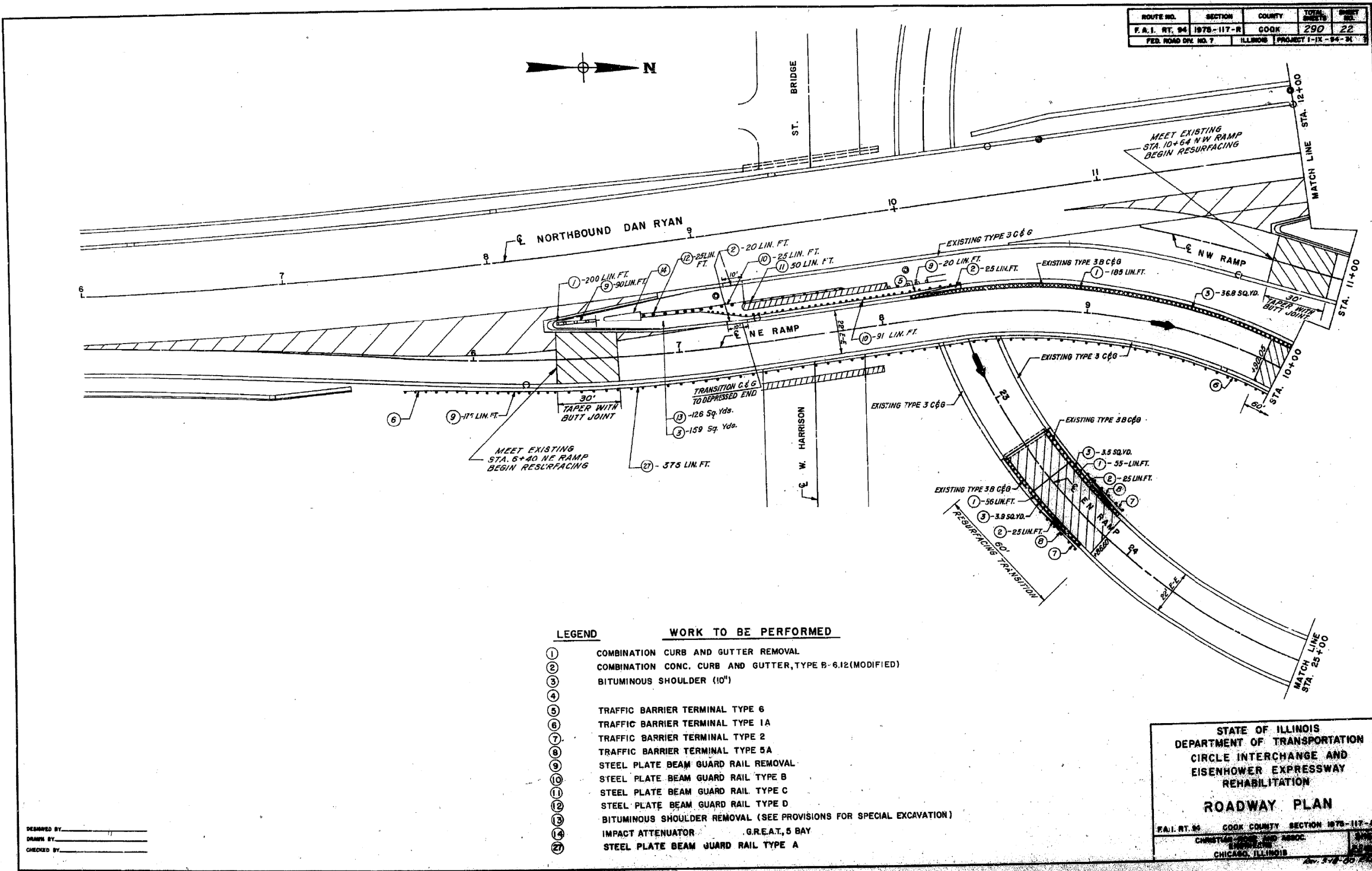
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ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
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EXISTING RECORD DRAWINGS

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ILLINOIS FED. AID PROJECT				

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