

NORTH ABUTMENT
(S. Abut. opp. hand)

BEARING & ANCHOR BOLT LAYOUT PLAN

PIER #1
(Pier #2 opp. hand)

DESIGNED	TDP	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

px:\s\svr\306.hanson.dom\hanson_projects\Documents\09Jobs\09L0105\CAD-PhaseII\Struct\Sheet\D409L0105-Anchor_Bolt_Layout_Plan

USER NAME = onder00846	DESIGNED - TDP	REVISIONS
PLOT SCALE = 40.0000 1" = 40'	CHECKED - MAF	1
PLOT DATE = 9/8/2015	DRAWN - GTJ	2
	CHECKED - MAF	3
	REVISIONS	4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHOR BOLT AND BEARING LAYOUT PLAN
STRUCTURE 048-9928

SHEET NO. 21 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	101
CONTRACT NO. 89417			ILLINOIS FED. AID PROJECT	



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GENERAL NOTES - BEARINGS:

All material and workmanship shall be as per chapter 15 of the current A.R.E.M.A. Manual for Railway Engineering. Structural steel plates of the Bearing Assembly shall conform to the requirements of A.S.T.M. A709 Grade 50 unless otherwise noted.

Anchor bolts shall be F1554, GR. 105 with A563 GR DH heavy hex nut and standard washer.

Anchor bolts shall be set in epoxy-cement resin grout in the correct location using formed holes as shown on foundation drawings. Prior to filling blockout with grout, holes shall be cleaned by the use of compressed air or vacuuming. Anchor bolts shall be forced into grouted holes until the full plan embedment is reached. Scrape excess grout from around anchor bolts. Grout strength should not be less than the specified concrete strength or 5,000 psi with a coefficient of thermal expansion similar to that of concrete.

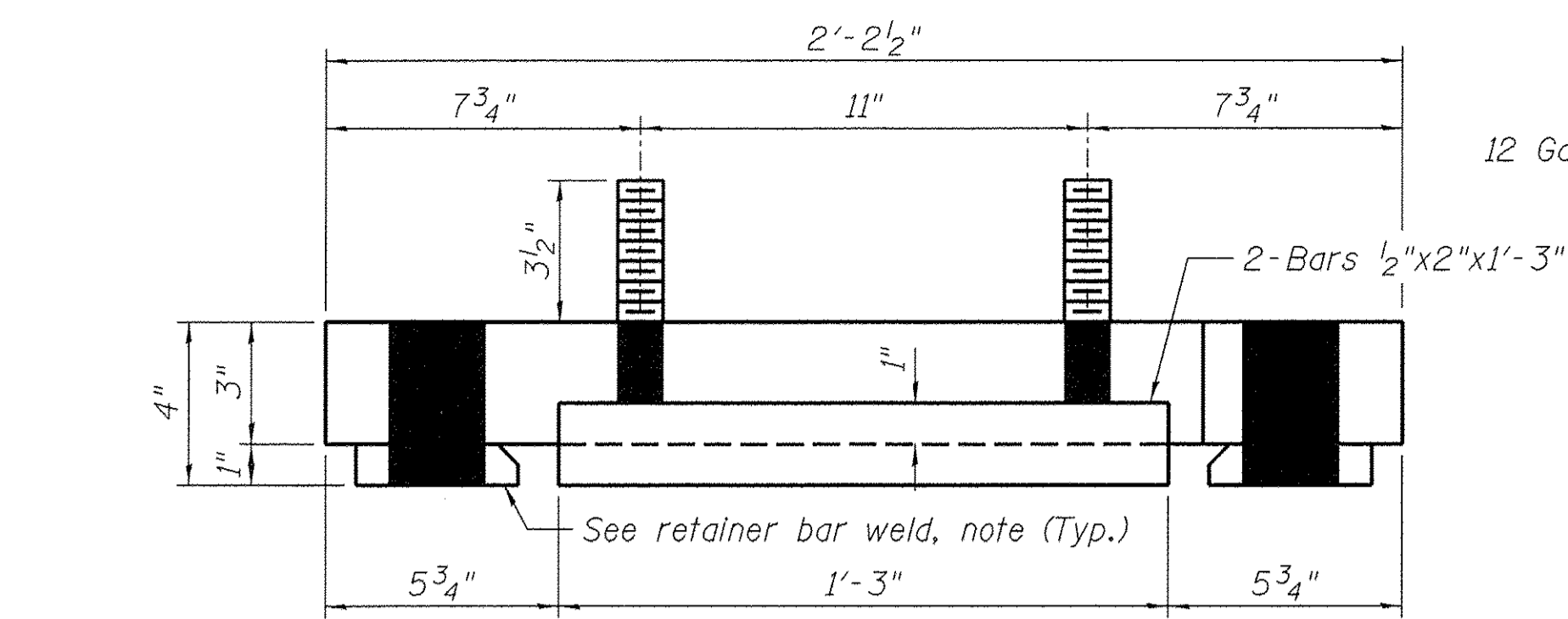
An adjustment in fill plate thickness will be allowed to rectify elevation variations after construction of the cast-in-place concrete transfer beams. minimum fill plate thickness shall be $\frac{3}{8}$ " with a maximum fill plate thickness of $2\frac{1}{2}$ " whether comprised of one or more plates. no more than three plates shall be stacked for use as a fill plate.

Laminated neoprene bearing pads shall be in accordance with A.R.E.M.A. Chapter 15.

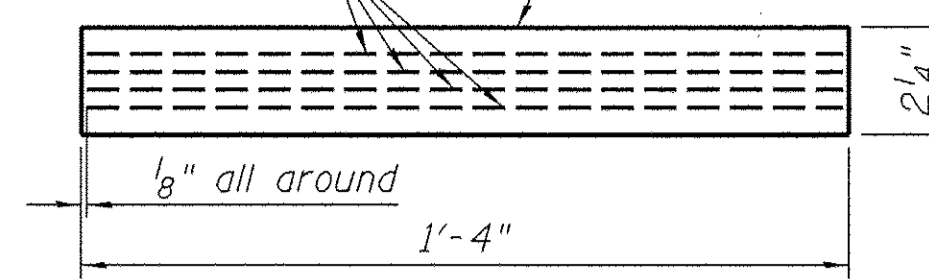
Bearing areas on bridge seats shall be abrasive blast cleaned to remove all form oil and curing agents and shall be left in a dust free condition. Bearing areas on bearing plate, which are to receive epoxy materials, shall be cleaned of all dirt, grease, and other contaminants before epoxy materials are applied.

Clean top and bottom surfaces of neoprene bearing pads with methyl ethyl ketone to remove all traces of mold release agents. When mating surfaces are clean and dry, Class B Gel Type Epoxy shall be applied to a 5 mil thickness on the areas of the bridge seat where neoprene bearing pads are to be placed, and on the bottom side of the neoprene bearing pads and then the pads shall be set and held in the proper location on the bridge seat until the epoxy takes its initial set. pads must be held down with sufficient weight to ensure total pad contact on the bridge seat.

Just before erecting girders, mortar consisting of equal parts by volume of Class B Gel Type Epoxy and dry silica sand, mixed in accordance with manufacturers directions, shall be spread on the entire top area of bearing pads to a thickness of approximately $\frac{1}{8}$ inch. The girders shall then be set in the proper location on the bearing pads before the epoxy mortar takes its initial set. Scrape excess mortar from around neoprene bearing pads after girders are set.

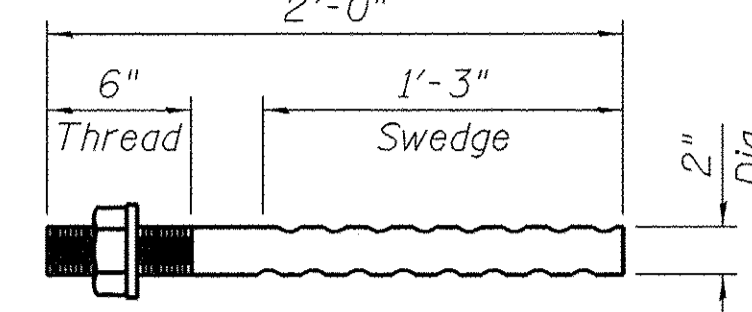


12 Gage Steel Sheet (4 Req'd.)
3 internal layers of $\frac{3}{8}$ " elastomer between cover layers of $\frac{3}{8}$ " elastomer (60 durometer)



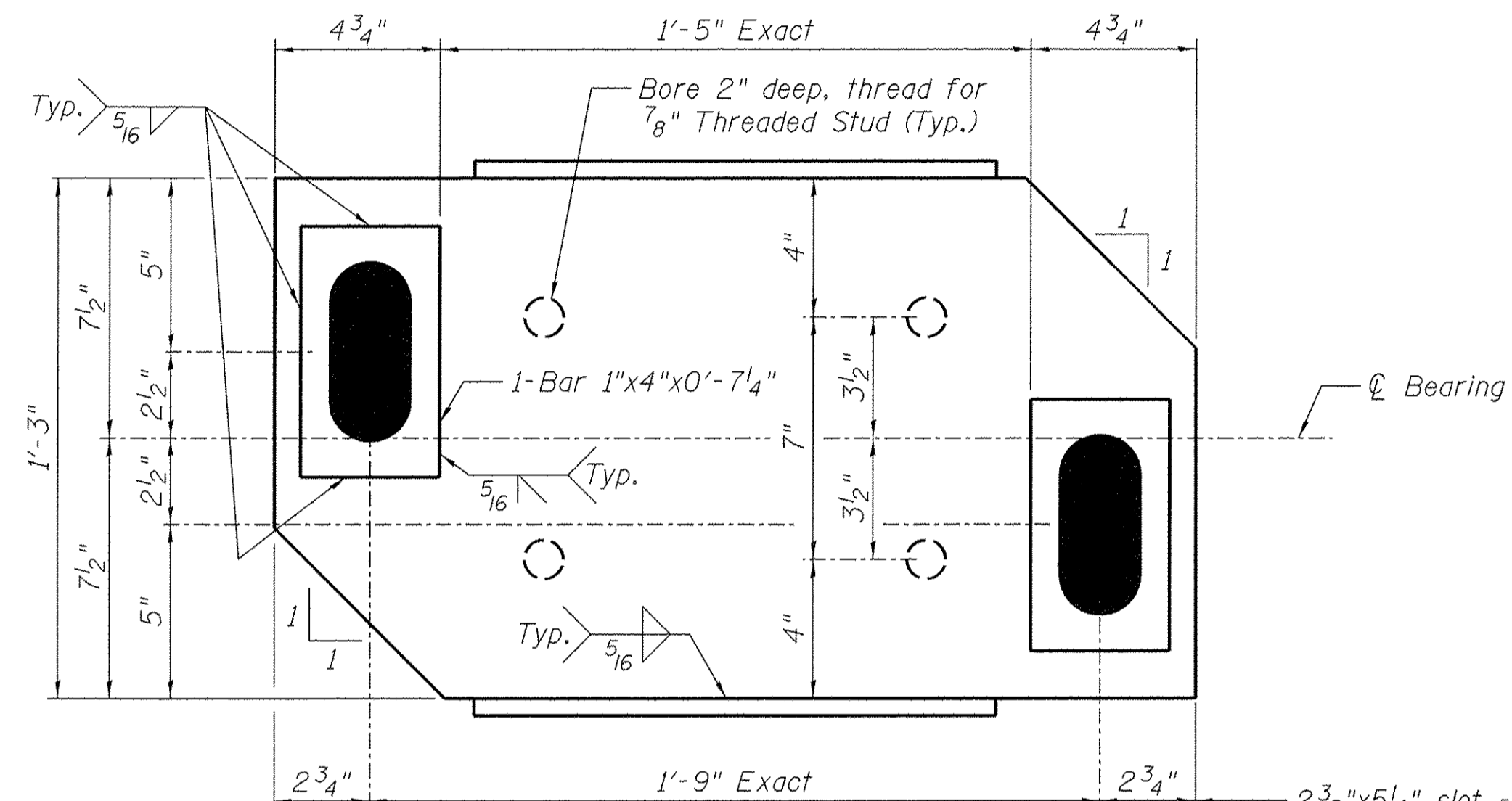
BEARING PAD

16"x14"x 2 1/4" laminated, steel reinforced neoprene bearing pad 60 durometer 60 req'd



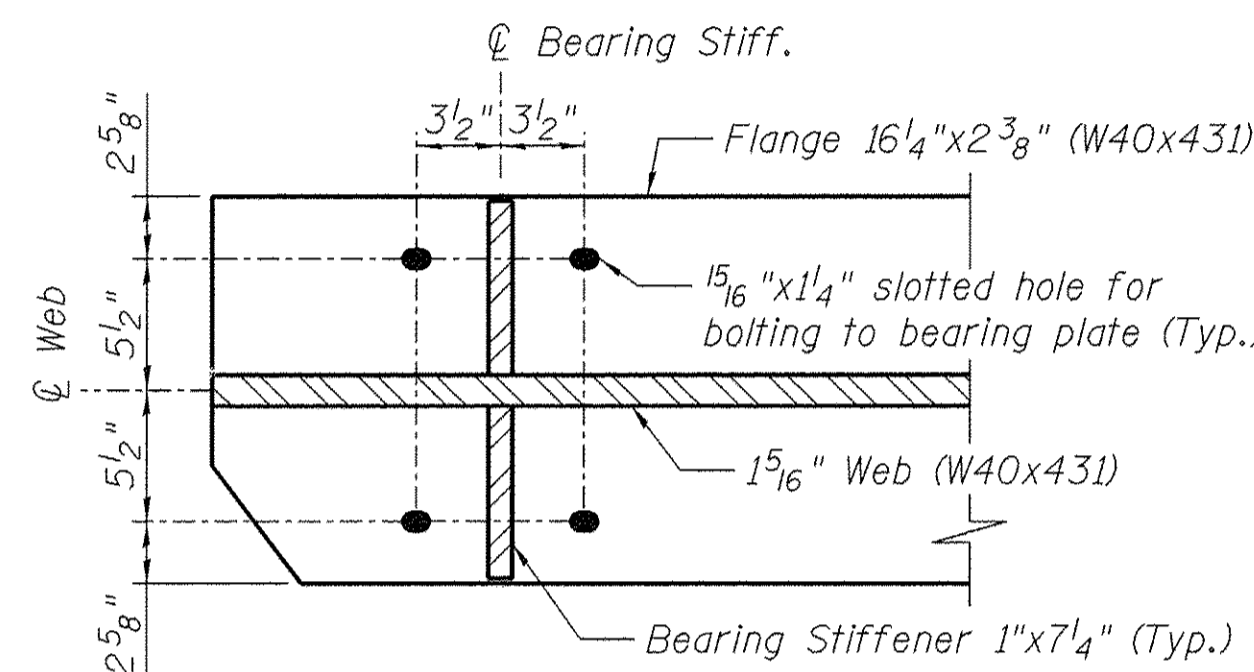
ANCHOR BOLT

ASTM F1554, Gr. 105
1-Bar 2" Dia. x 2'-0"
1-Std. Hex Nut, 2" Dia.
1-Std. Washer, 2 1/8" Dia. hole
Galvanize after fabrication

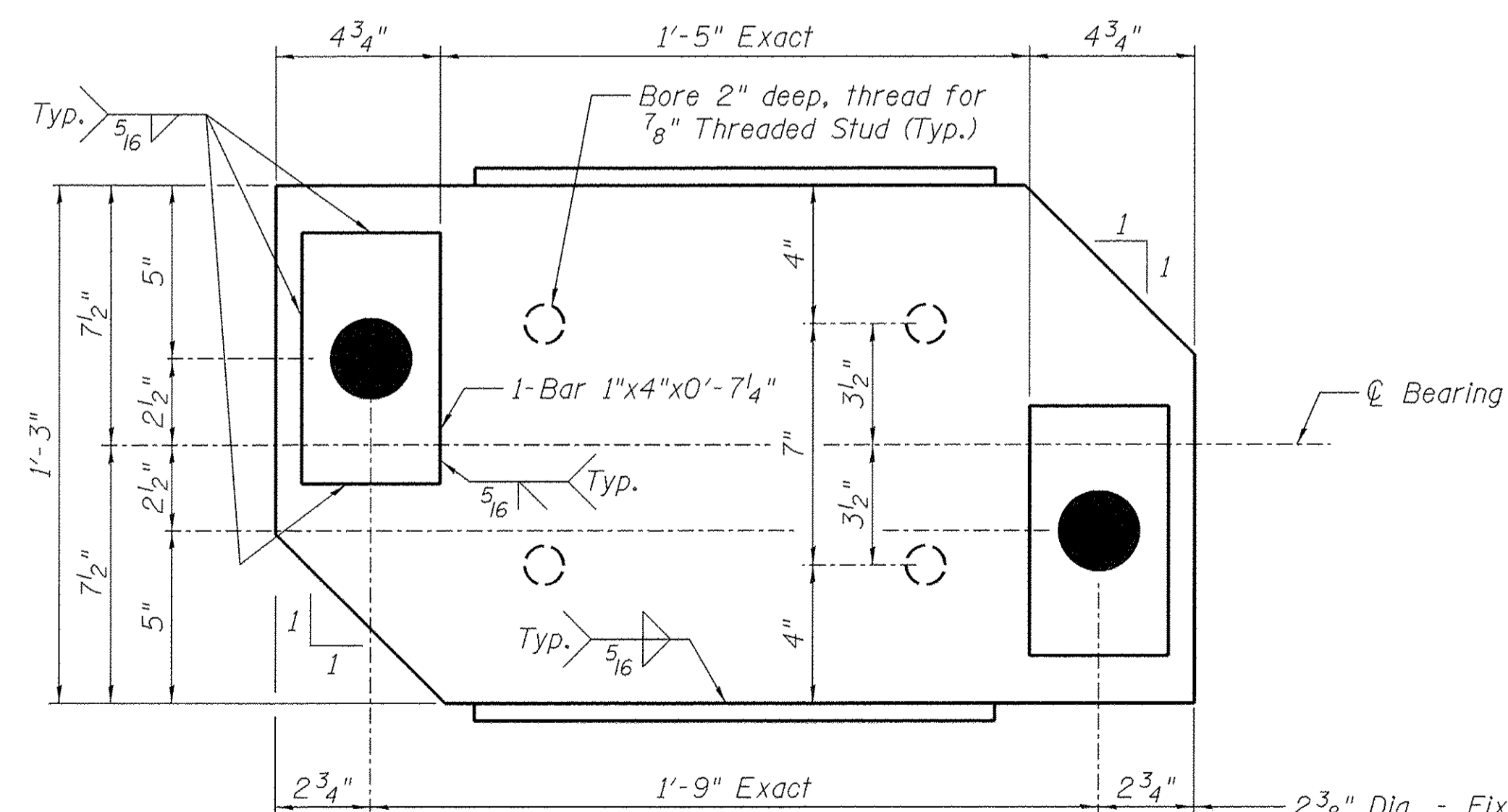


EXPANSION BEARING PLATE DETAIL

(Bottom side of plate shown)



DETAIL - W40 BEAM BOTTOM FLANGE AT BEARING

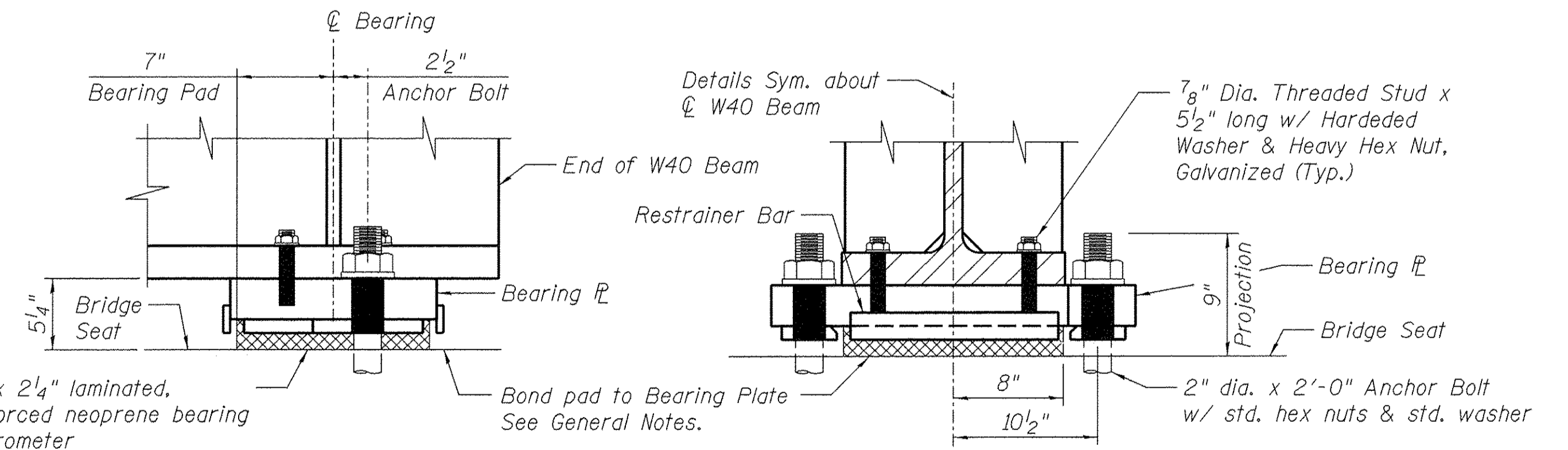


FIXED BEARING PLATE DETAIL

(Bottom side of plate shown)

RESTRAINER BAR WELD NOTE

Provide oversize bevel to keep weld metal within the inside face of restrainer bar. Typical for all bearings.



VIEW PERPENDICULAR TO CENTERLINE TRACK

VIEW PARALLEL WITH CENTERLINE TRACK

FIXED & EXPANSION BEARING DETAILS

DESIGNED	5-22-15
DRAWN	5-22-15
REVIEWED	5-22-15

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USER NAME = ander00846	DESIGNED - TDP	REVISOR -
PLOT SCALE = 0:4.0000 '1' = 1/4"	CHECKED - MAF	REVISOR -
PLOT DATE = 9/8/2015	DRAWN - GTJ	REVISOR -
	CHECKED - MAF	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS - SPAN #1 AND #3
STRUCTURE 048-9928

SHEET NO. 22 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	102
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				

GENERAL NOTES - BEARINGS:

All material and workmanship shall be as per chapter 15 of the current A.R.E.M.A. Manual for Railway Engineering. Structural steel plates of the Bearing Assembly shall conform to the requirements of A.S.T.M. A709 Grade 50 unless otherwise noted.

Anchor bolts shall be F1554, GR. 36 with A563 GR DH heavy hex nut and standard washer.

Anchor bolts shall be set in epoxy-cement resin grout in the correct location using formed holes as shown on foundation drawings. Prior to filling blockout with grout, holes shall be cleaned by the use of compressed air or vacuuming. Anchor bolts shall be forced into grouted holes until the full plan embedment is reached. Scrape excess grout from around anchor bolts. Grout strength should not be less than the specified concrete strength or 5,000 psi with a coefficient of thermal expansion similar to that of concrete.

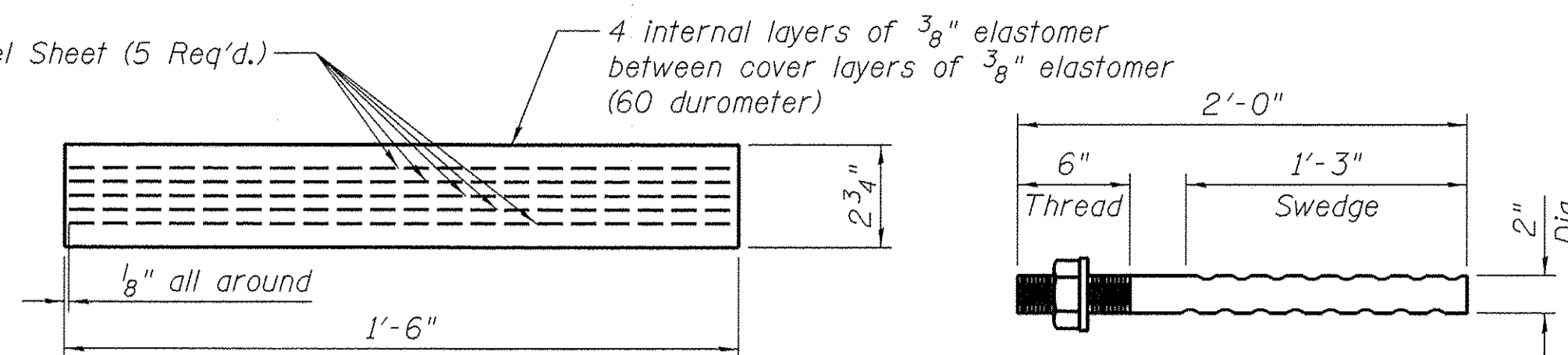
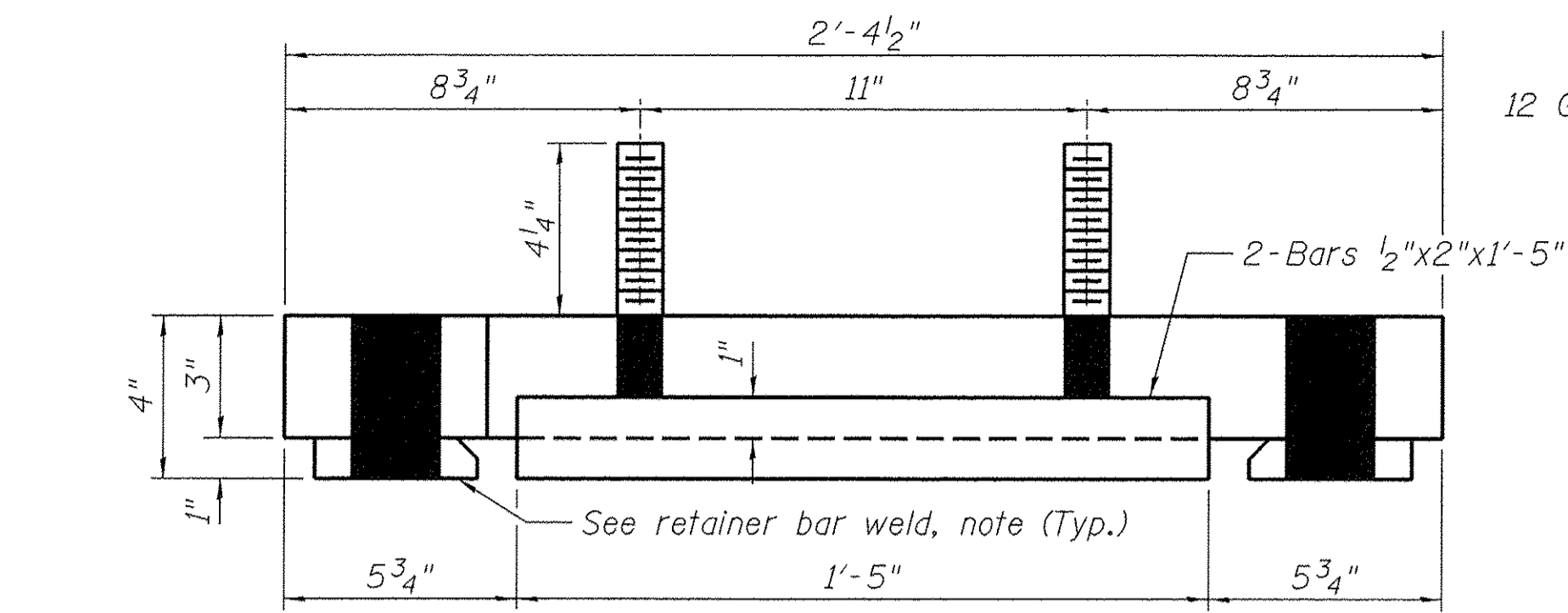
An adjustment in fill plate thickness will be allowed to rectify elevation variations after construction of the cast-in-place concrete transfer beams. minimum fill plate thickness shall be $\frac{3}{8}$ " with a maximum fill plate thickness of $2\frac{1}{2}$ " whether comprised of one or more plates. no more than three plates shall be stacked for use as a fill plate.

Laminated neoprene bearing pads shall be in accordance with A.R.E.M.A. Chapter 15.

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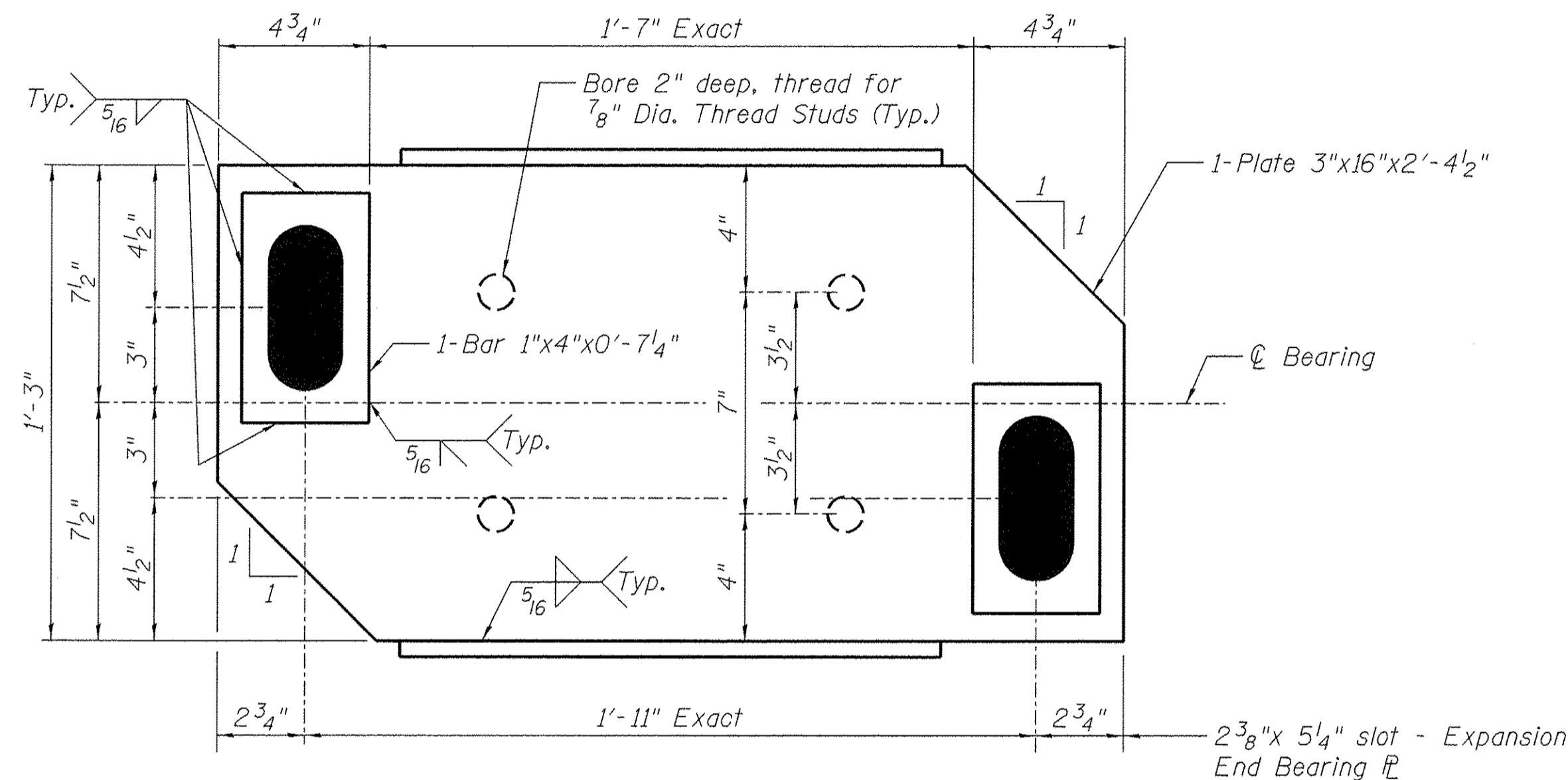


BEARING PAD

18" x 14" x 2 $\frac{3}{4}$ " laminated, steel reinforced neoprene bearing pad
60 durometer
30 req'd

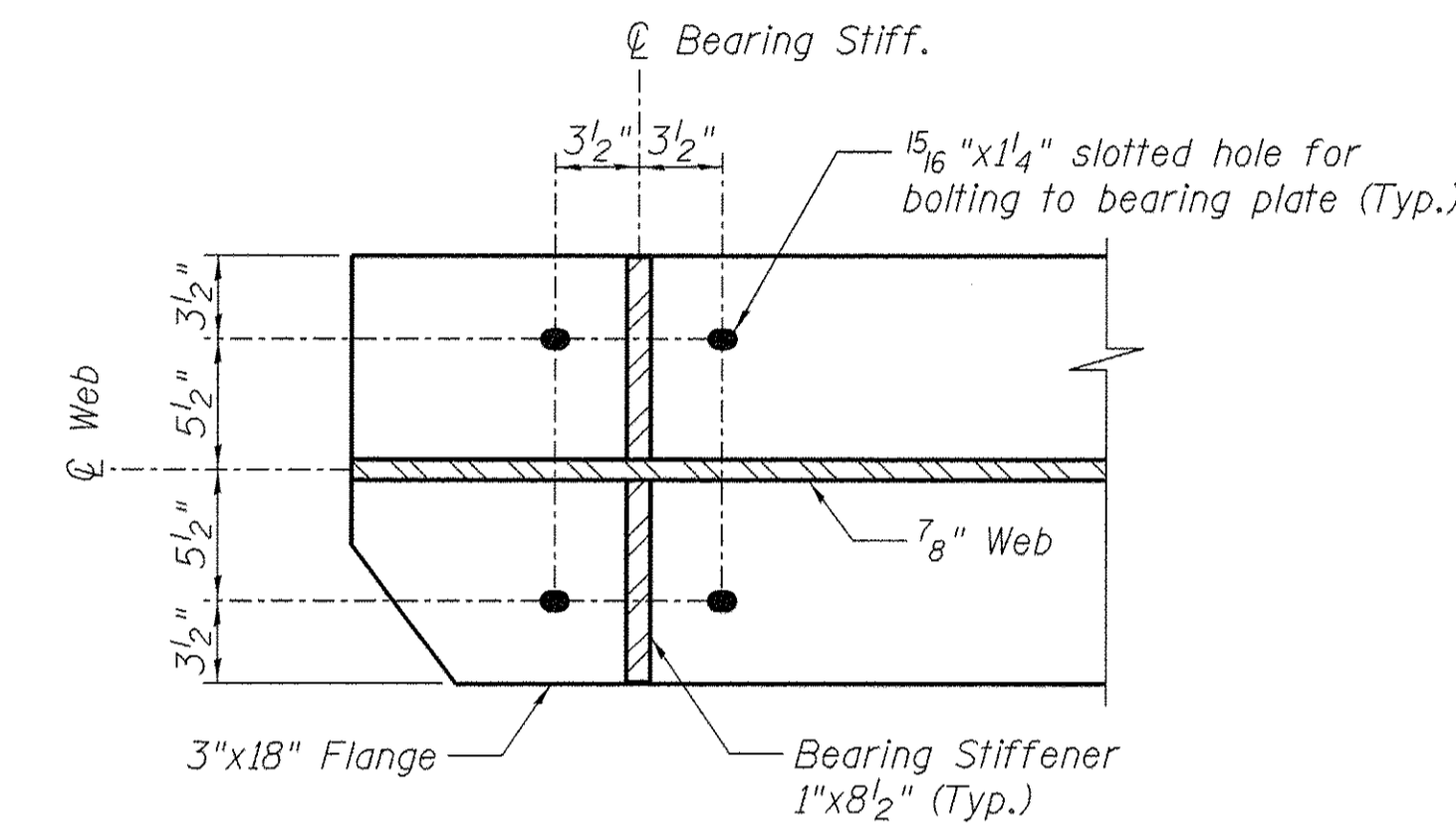
ANCHOR BOLT

ASTM F1554, Gr. 105
1-Bar 2" Dia. x 2'-0"
1-Std. Hex Nut, 2" Dia.
1-Std. Washer, 2 $\frac{1}{8}$ " Dia. hole
Galvanize after fabrication

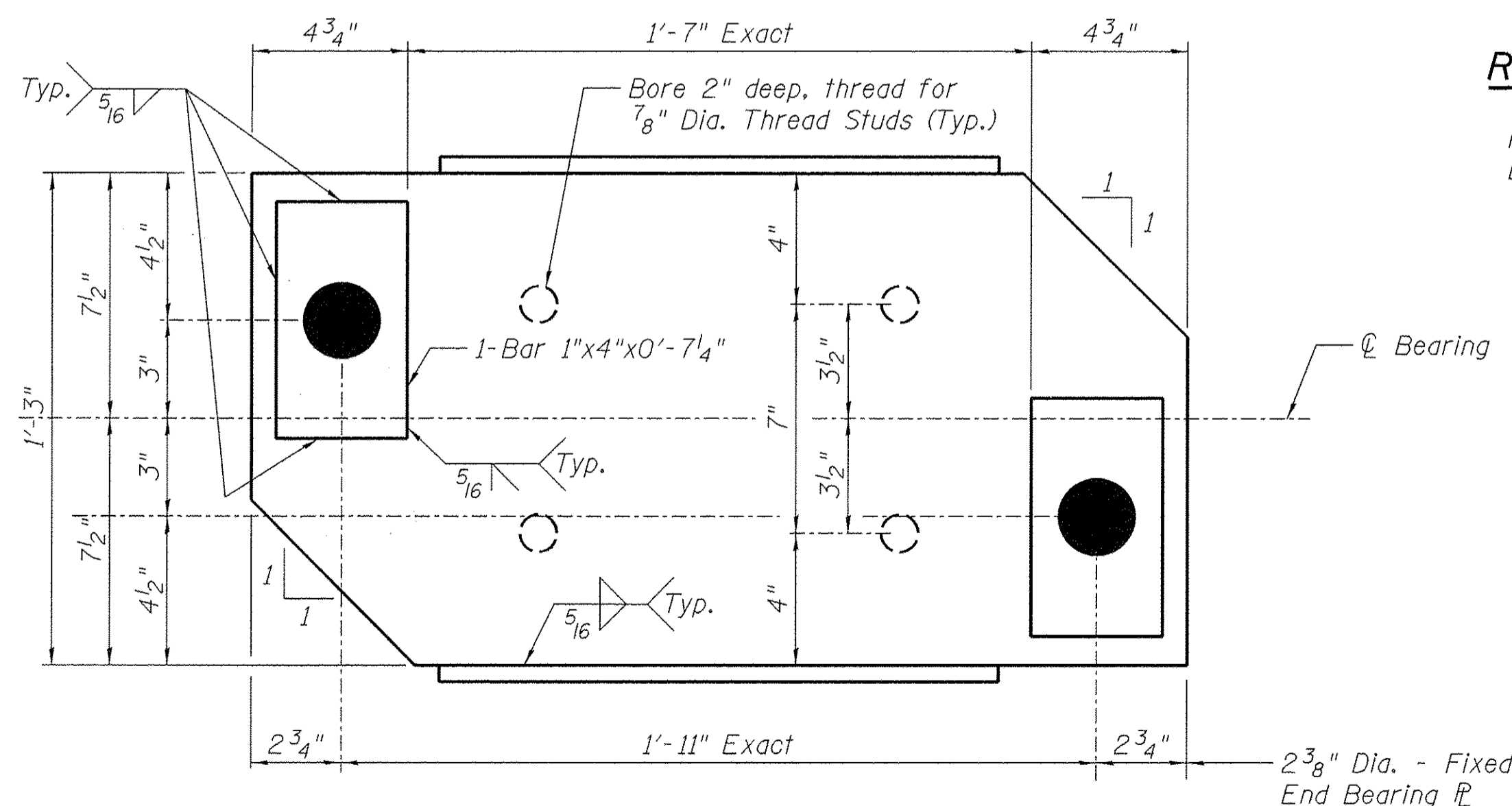


EXPANSION BEARING PLATE DETAIL

(Bottom side of plate shown)



DETAIL - GIRDER BOTTOM FLANGE AT BEARING

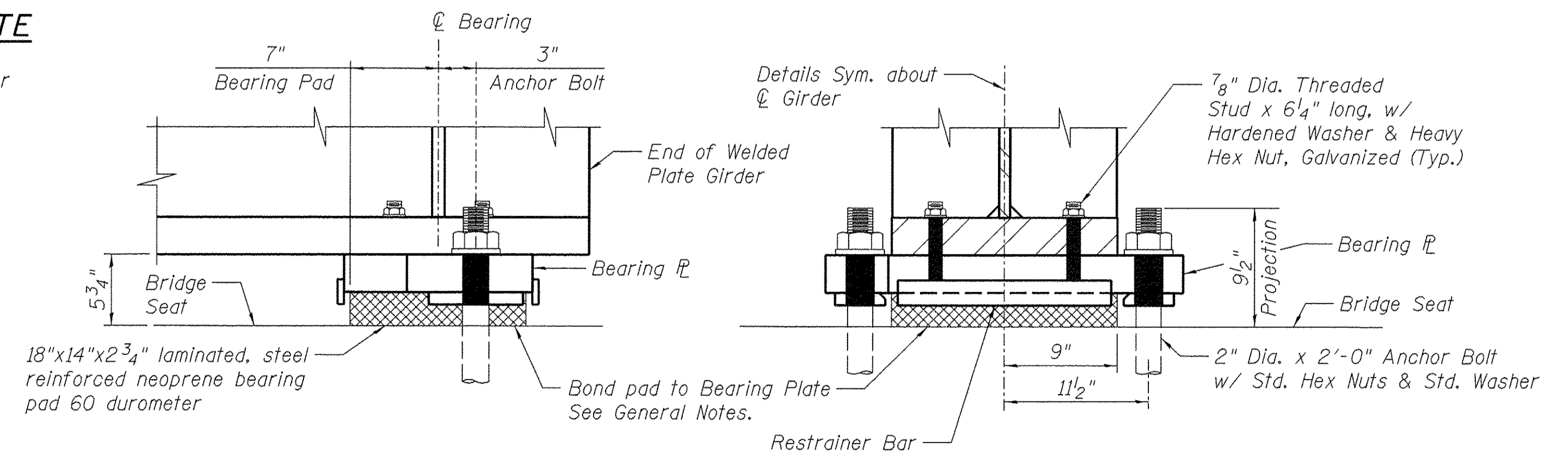


FIXED BEARING PLATE DETAIL

(Bottom side of plate shown)

RESTRAINER BAR WELD NOTE

Provide oversize bevel to keep weld metal within the inside face of restrainer bar. Typical for all bearings.



VIEW PERPENDICULAR TO CENTERLINE TRACK

VIEW PARALLEL WITH CENTERLINE TRACK

FIXED & EXPANSION BEARING DETAILS

DESIGNED	5-22-15
DRAWN	GTJ
REVIEWED	MAF
	5-22-15
	5-22-15

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USER NAME =	ander00846	DESIGNED -	TDP	REVISD -	
		CHECKED -	MAF	REVISD -	
PLOT SCALE =	0:4.0000' / 1" =	DRAWN -	GTJ	REVISD -	
PLOT DATE =	9/8/2015	CHECKED -	MAF	REVISD -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS - SPAN #2
STRUCTURE 048-9928**

SHEET NO. 23 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	103
CONTRACT NO.			89417	

ILLINOIS FED. AID PROJECT

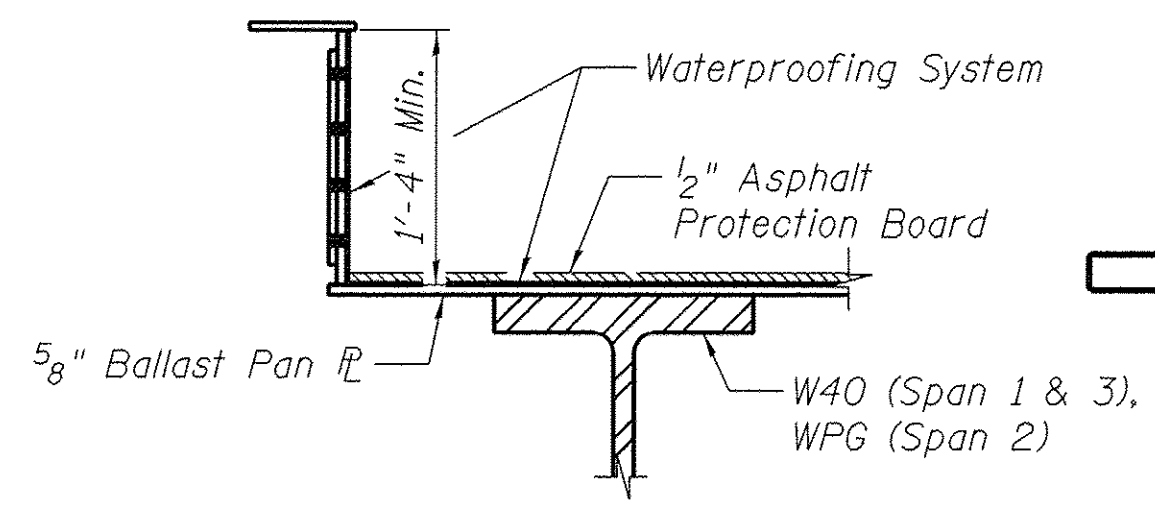
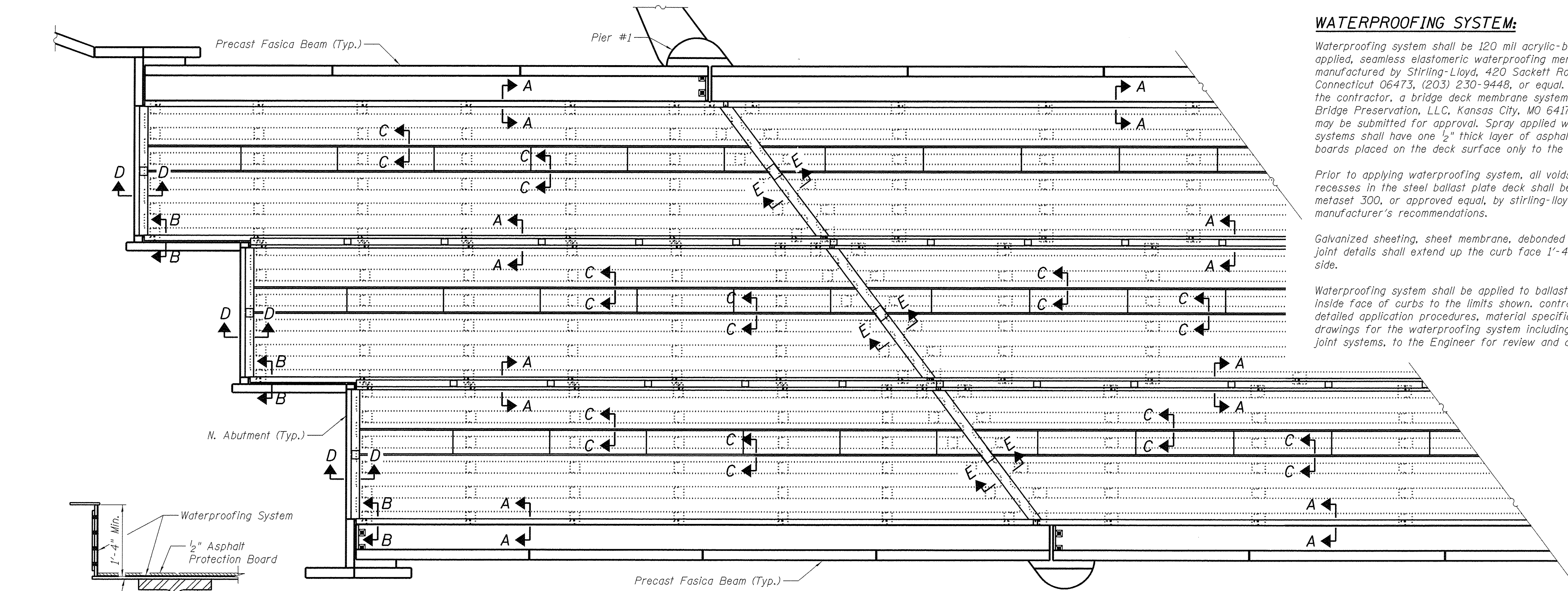
WATERPROOFING SYSTEM:

Waterproofing system shall be 120 mil acrylic-based, cold spray applied, seamless elastomeric waterproofing membrane as manufactured by Stirling-Lloyd, 420 Sackett Road, North Haven, Connecticut 06473, (203) 230-9448, or equal. At the option of the contractor, a bridge deck membrane system manufactured by Bridge Preservation, LLC, Kansas City, MO 64171, (816) 561-9996, may be submitted for approval. Spray applied waterproofing systems shall have one 1/2" thick layer of asphalt protection boards placed on the deck surface only to the limits indicated.

Prior to applying waterproofing system, all voids, gaps, and recesses in the steel ballast plate deck shall be filled in with metaset 300, or approved equal, by Stirling-Lloyd per the manufacturer's recommendations.

Galvanized sheeting, sheet membrane, debonded region, and other joint details shall extend up the curb face 1'-4" min. on each side.

Waterproofing system shall be applied to ballast plate deck and inside face of curbs to the limits shown. contractor shall submit detailed application procedures, material specifications and shop drawings for the waterproofing system including field installed joint systems, to the Engineer for review and approval.

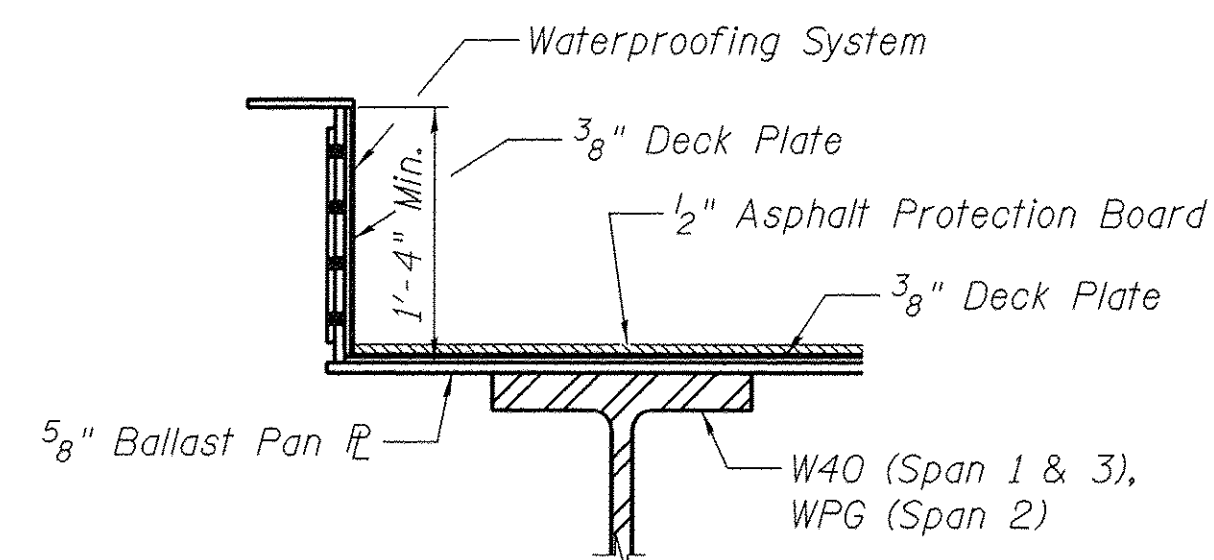


SECTION A-A (TYP. AT CURBS)

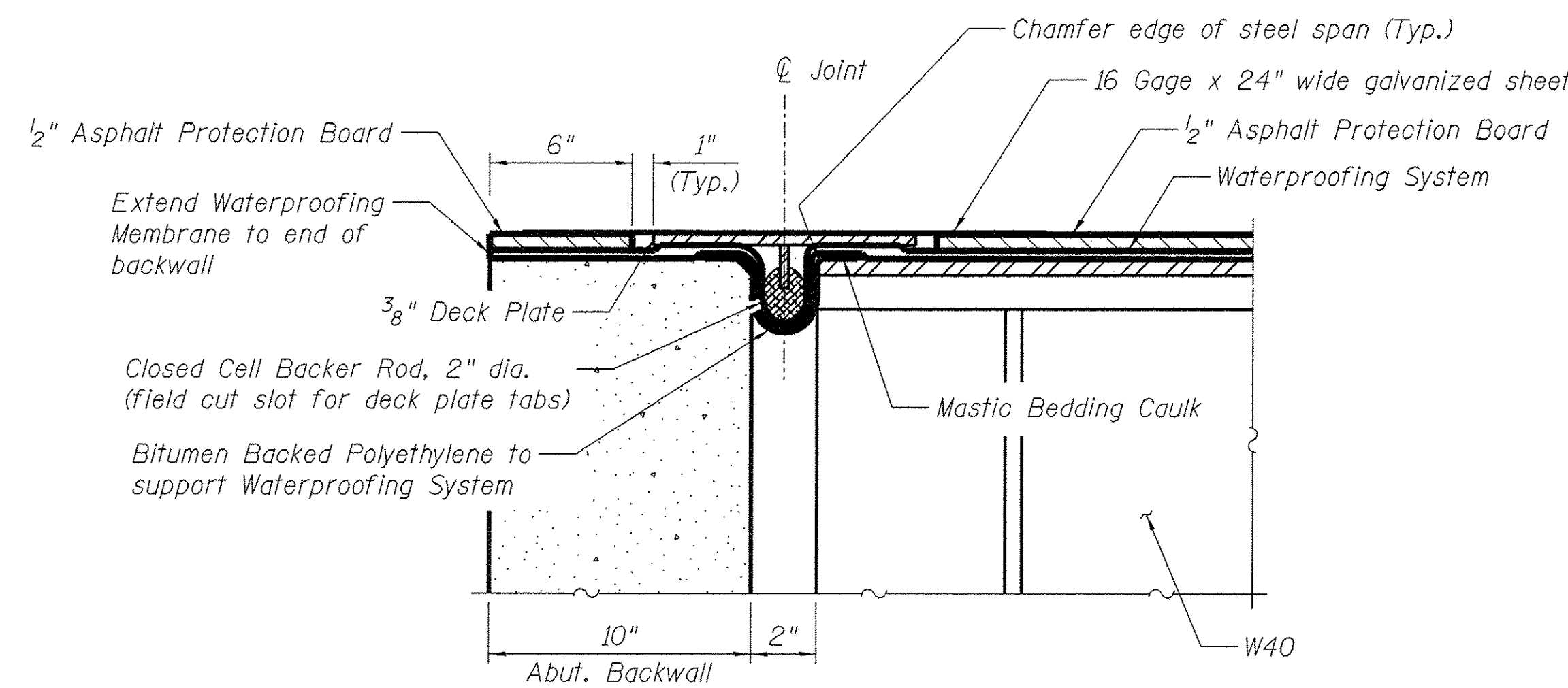
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Membrane Waterproofing	Sq. Yd.	10,480

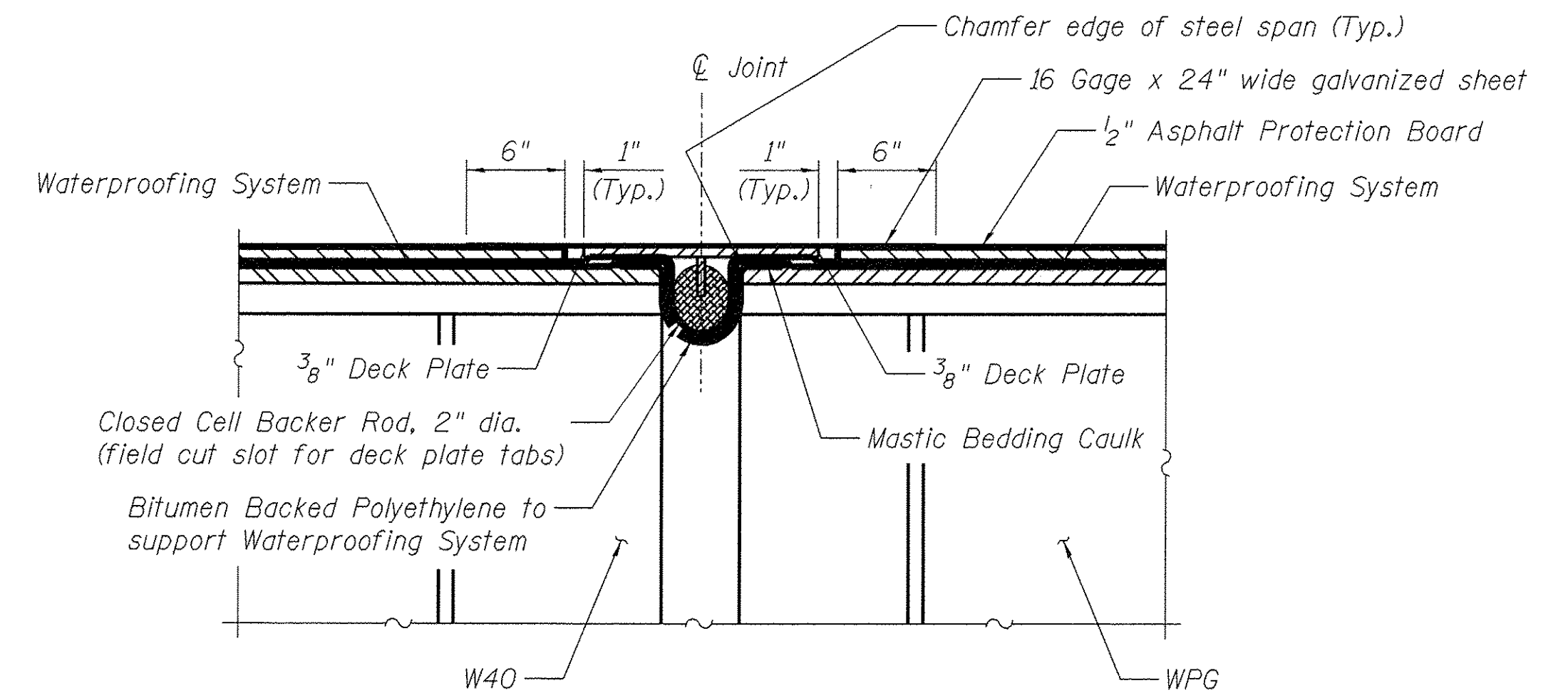
WATERPROOFING PLAN



SECTION B-B (TYP. AT JOINTS)



SECTION D-D



SECTION E-E

- Notes:**
1. Adhere galvanized sheet to asphalt protection on one side of joint only.
 2. Waterproofing System continuous thru joint.

- Notes:**
1. Adhere galvanized sheet to asphalt protection on one side of joint only.
 2. Waterproofing System continuous thru joint.

DESIGNED	5-22-15
DRAWN	5-22-15
REVIEWED	5-29-15

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USER NAME = ande00846	DESIGNED - TDP	REVISD -
PLOT SCALE = 0.1:0000 '1' / 1"	CHECKED - MAF	REVISD -
PLOT DATE = 9/8/2015	DRAWN - GTJ	REVISD -
	CHECKED - MAF	REVISD -

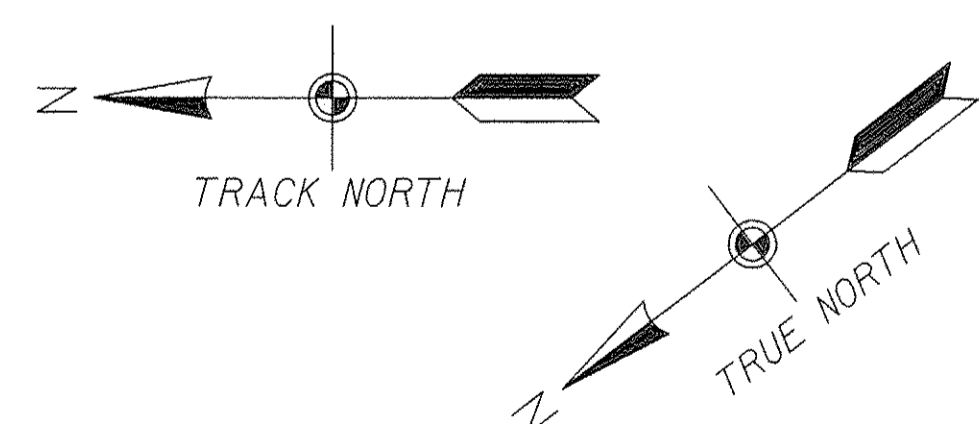
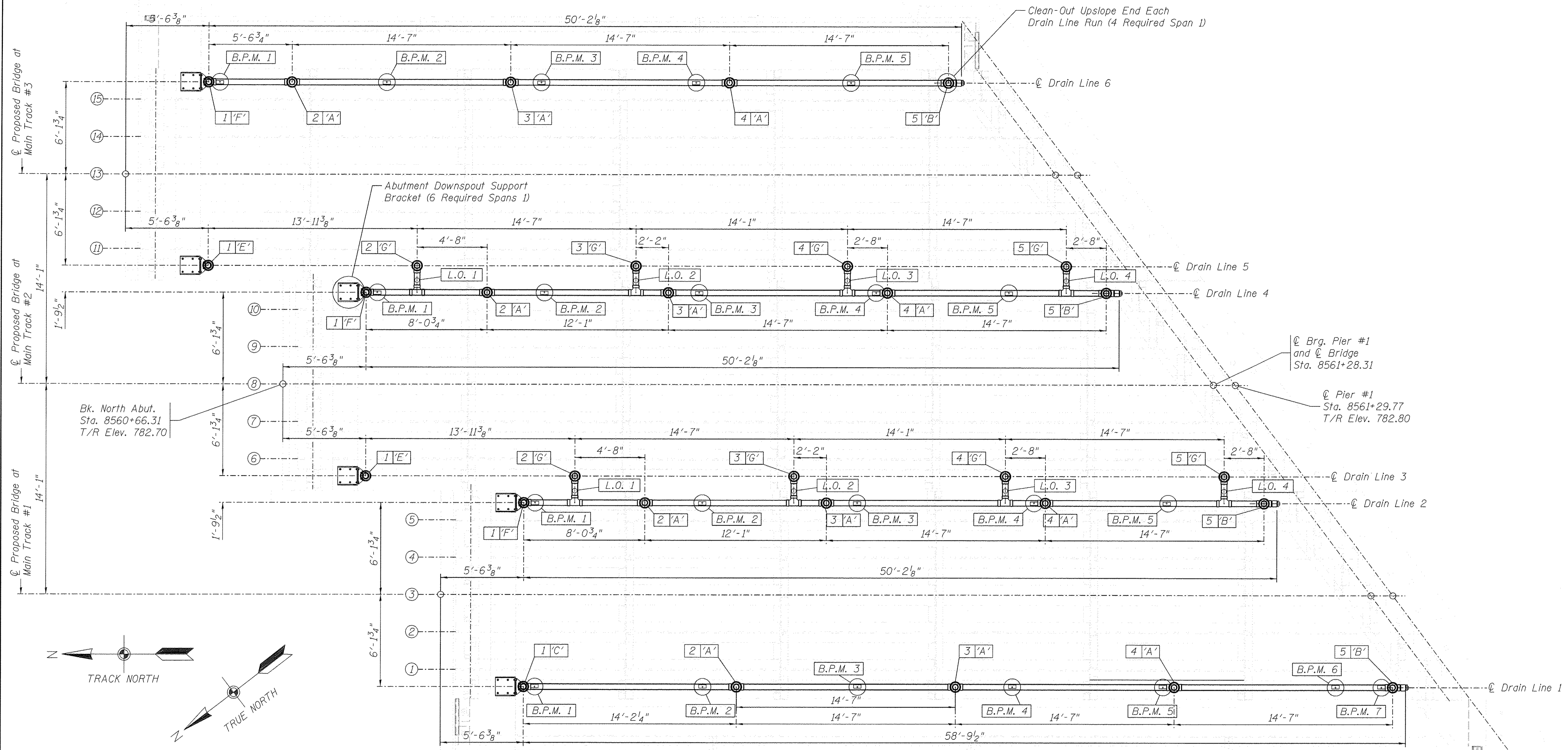
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WATERPROOFING DETAILS
STRUCTURE 048-9928**

SHEET NO. 24 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	104
CONTRACT NO.			89417	

ILLINOIS FED. AID PROJECT



LEGEND:

- Line Fitting Designation Line Fitting Type
- B.P.M. ## Ballast Pan Mounted Vertical Support Bracket
- L.O. ## Lateral Offset Vertical Support Bracket

PLAN VIEW - DECK DRAINAGE - SPAN #1
(Proposed Bridge - Track #1 thru #3)

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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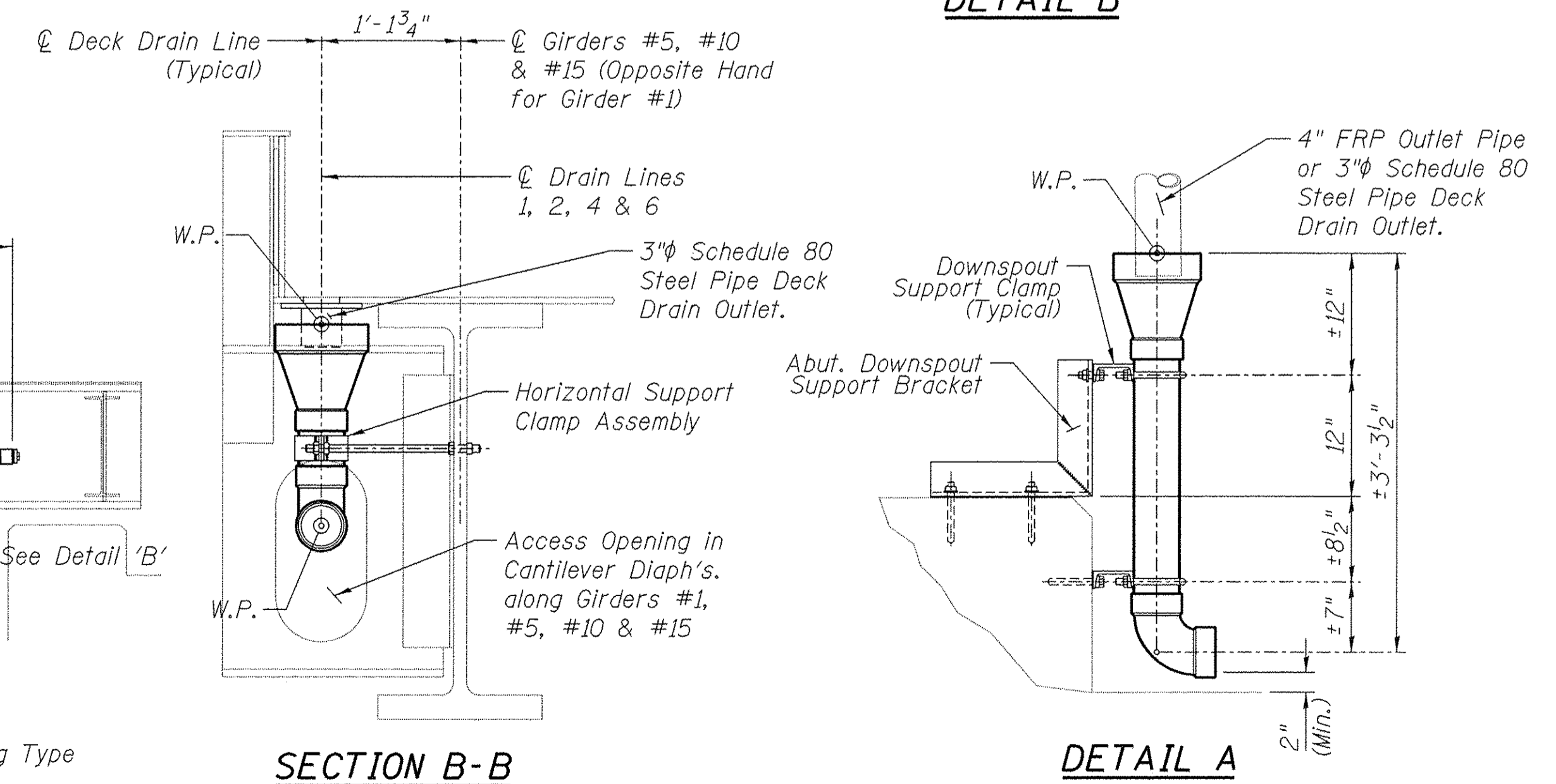
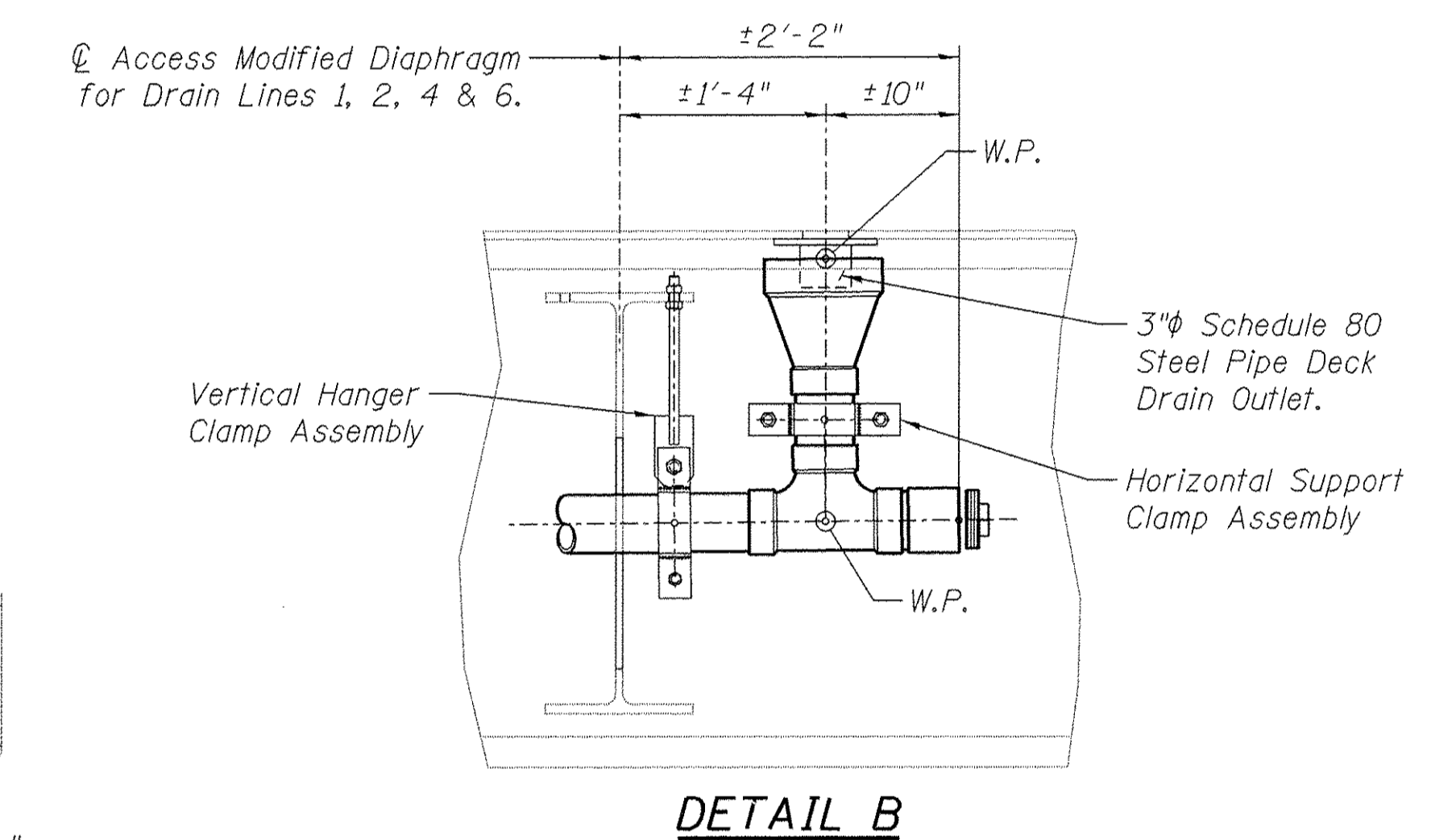
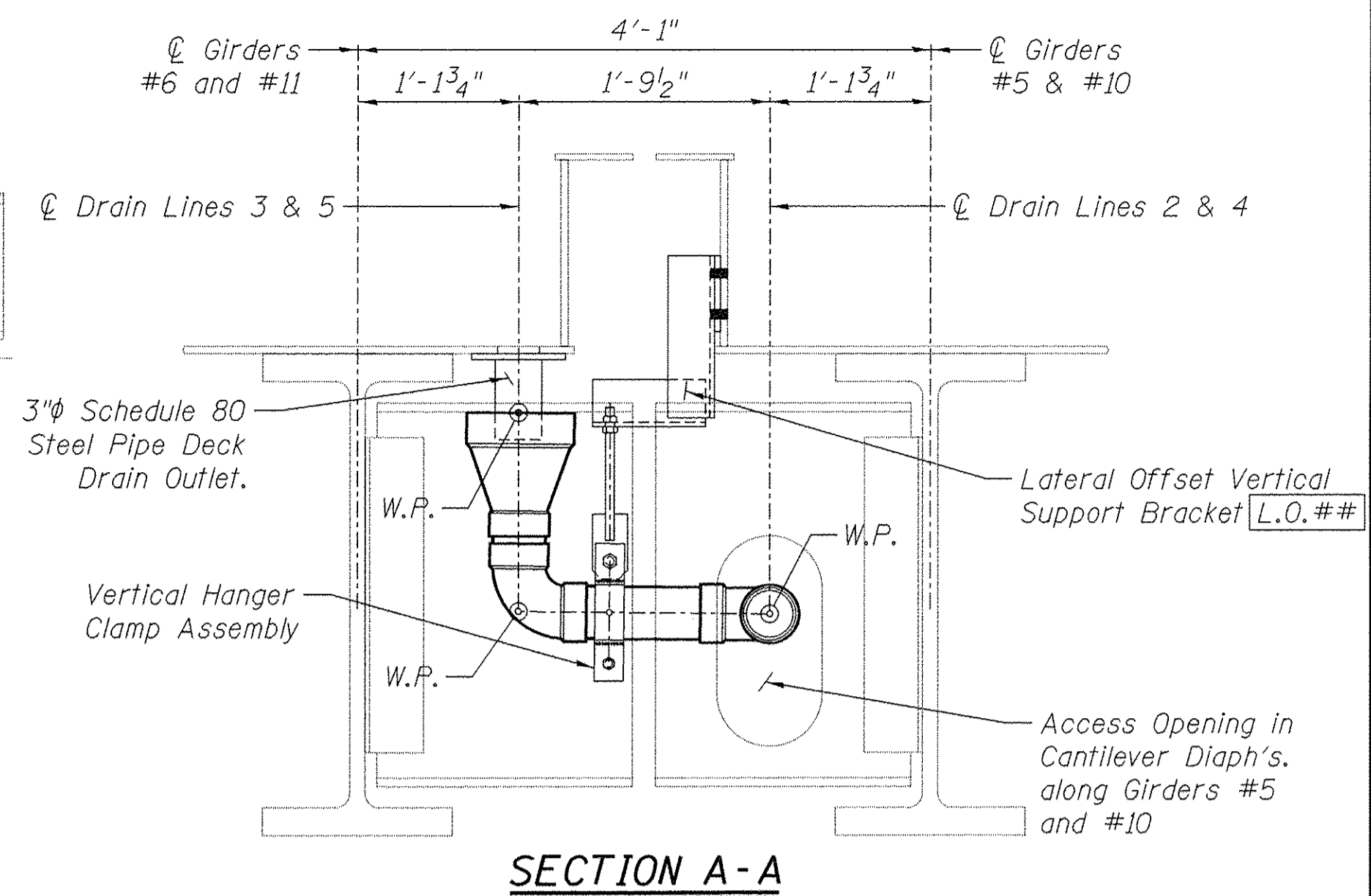
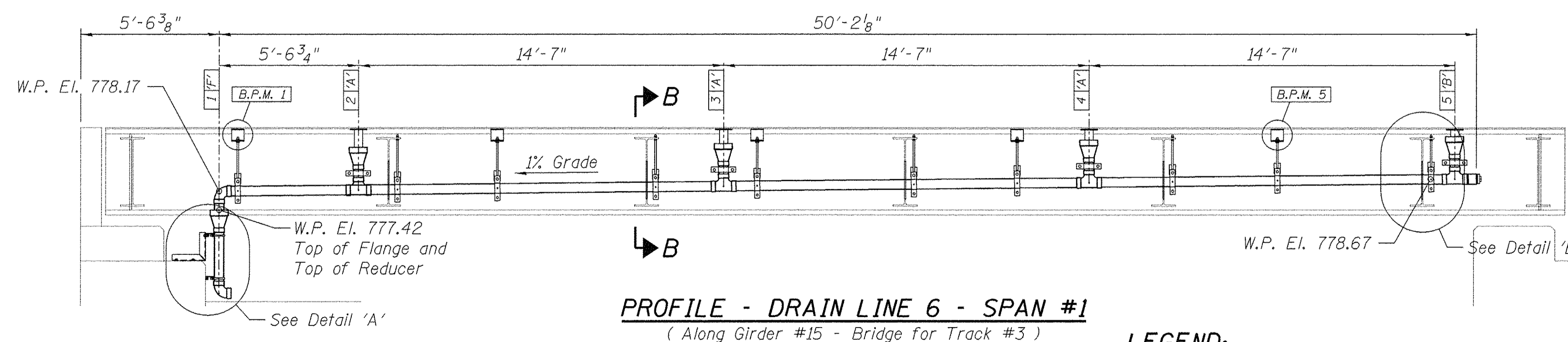
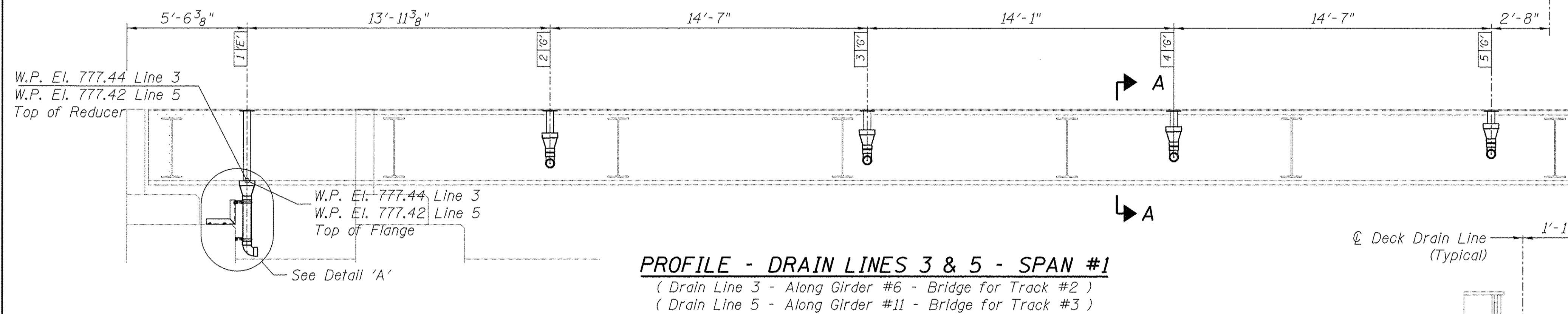
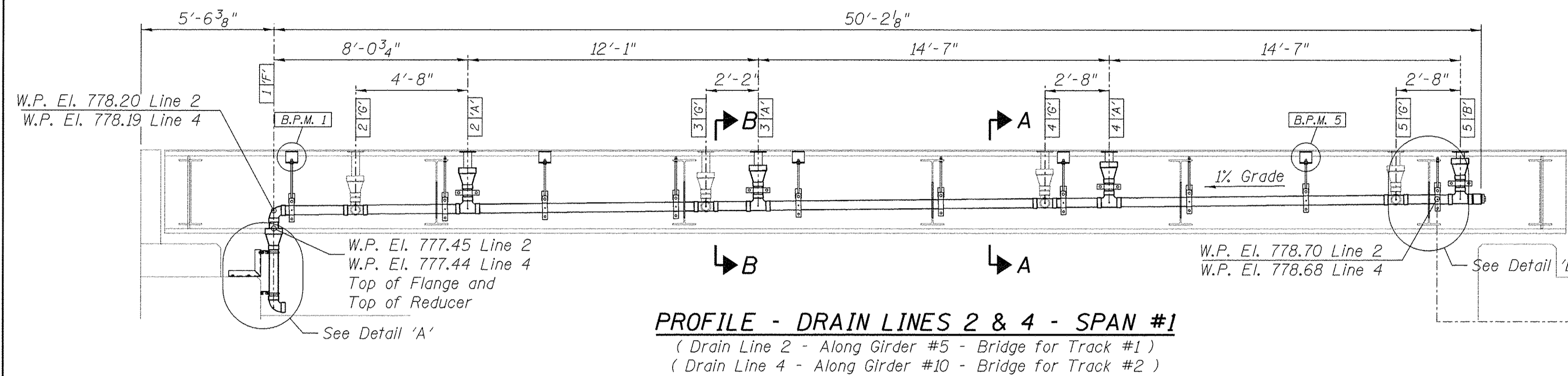
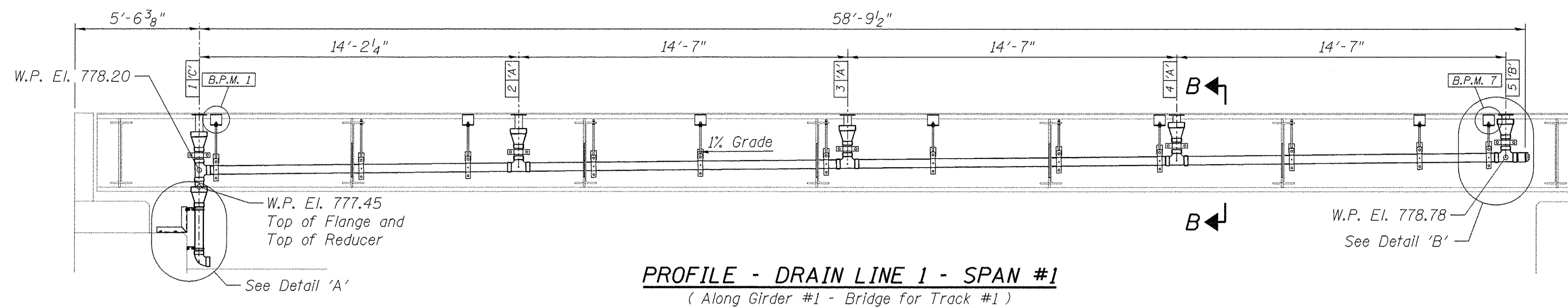
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		CHECKED -	MAF	REVISED -	
PLOT SCALE =	0.083333' / in.	DRAWN -	RAH	REVISED -	
PLOT DATE =	9/8/2015	CHECKED -	MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK DRAINAGE PLAN - SPAN #1
STRUCTURE 048-9928

SHEET NO. 25 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	105
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



LEGEND:

- Line Fitting Designation Line Fitting Type
- B.P.M. ## Ballast Pan Mounted Vertical Support Bracket
- L.O. ## Lateral Offset Vertical Support Bracket

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-23-15

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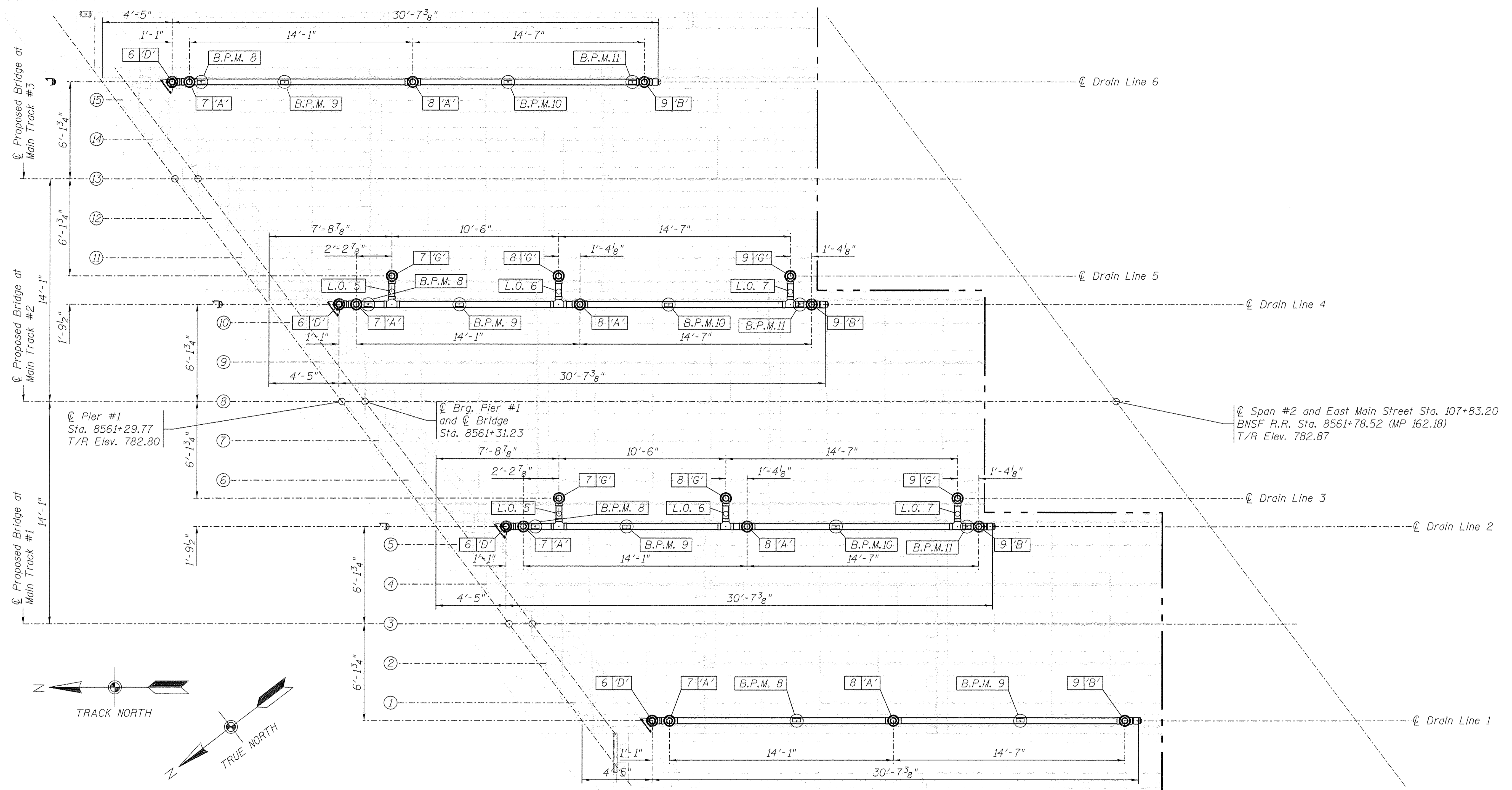
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PLOT DATE	= 9/8/2015	DRAWN	- RAH	REVISION	-
		CHECKED	- MAF	REVISION	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAIN LINE PROFILES - SPAN #1
STRUCTURE 048-9928

SHEET NO. 26 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	106
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



LEGEND:

Line Fitting Designation 6 | D' | Line Fitting Type

B.P.M. ## Ballast Pan Mounted Vertical Support Bracket

L.O. ## Lateral Offset Vertical Support Bracket

PLAN VIEW - DECK DRAINAGE - NORTH HALF SPAN #2

(Proposed Bridge - Track #1 thru #3)

DESIGNED	JFC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-23-15

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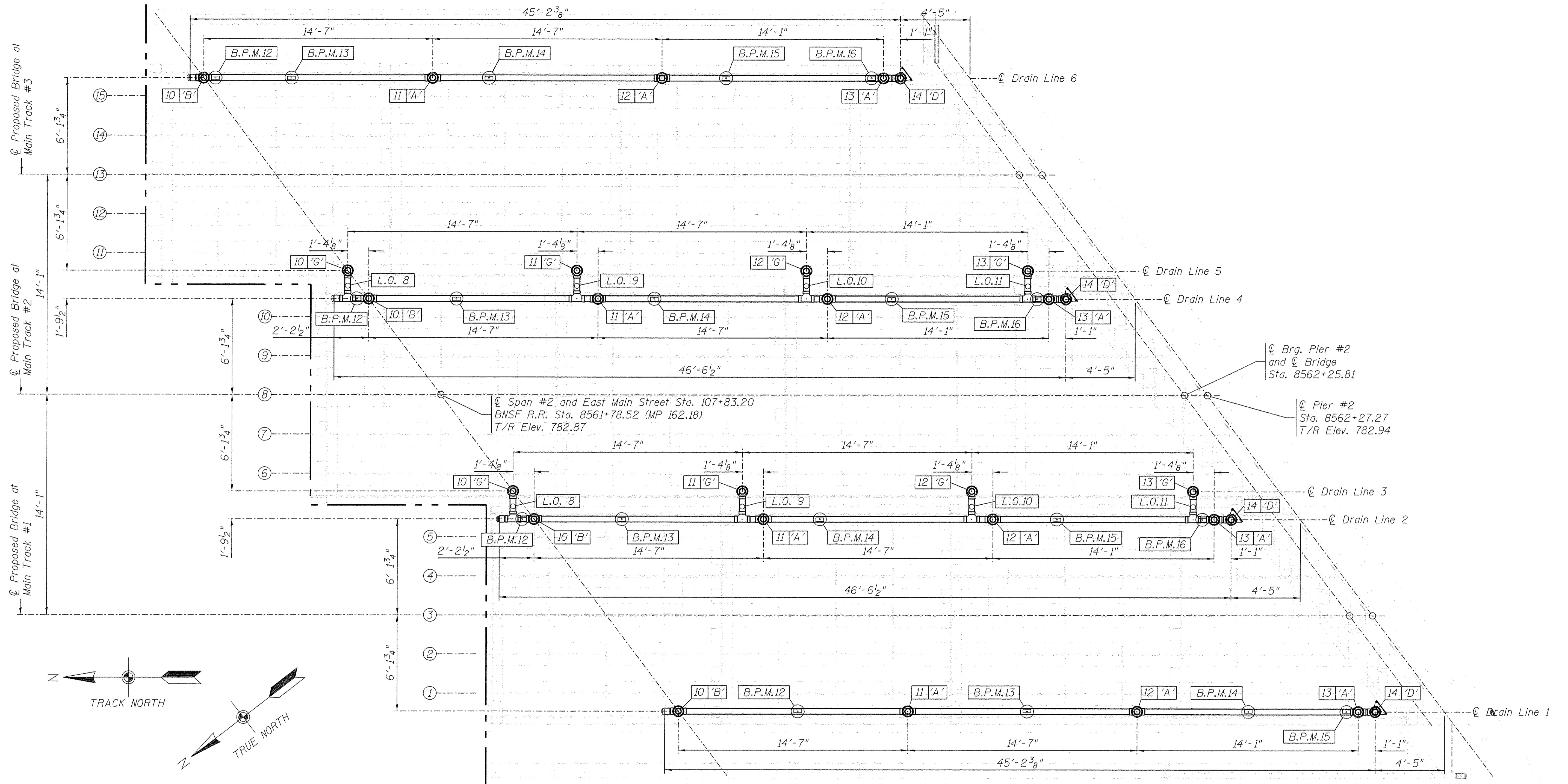
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PLOT SCALE = 0.083333 1/16"	CHECKED - MAF	REVISED -
PLOT DATE = 9/8/2015	DRAWN - RAH	REVISED -
	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK DRAINAGE PLAN - SPAN #2 NORTH HALF
STRUCTURE 048-9928**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	107
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				

SHEET NO. 27 OF 52 SHEETS



PLAN VIEW - DECK DRAINAGE - SOUTH HALF SPAN #2
 (Proposed Bridge - Track #1 thru #3)

LEGEND:

- Line Fitting Designation 10 'B' Line Fitting Type
- B.P.M. ## Ballast Pan Mounted Vertical Support Bracket
- L.O. ## Lateral Offset Vertical Support Bracket

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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USER NAME =	ander00846	DESIGNED -	JEC	REVISED -	
		CHECKED -	MAF	REVISED -	
PLOT SCALE =	0.083333 ' / in.	DRAWN -	RAH	REVISED -	
PLOT DATE =	9/8/2015	CHECKED -	MAF	REVISED -	

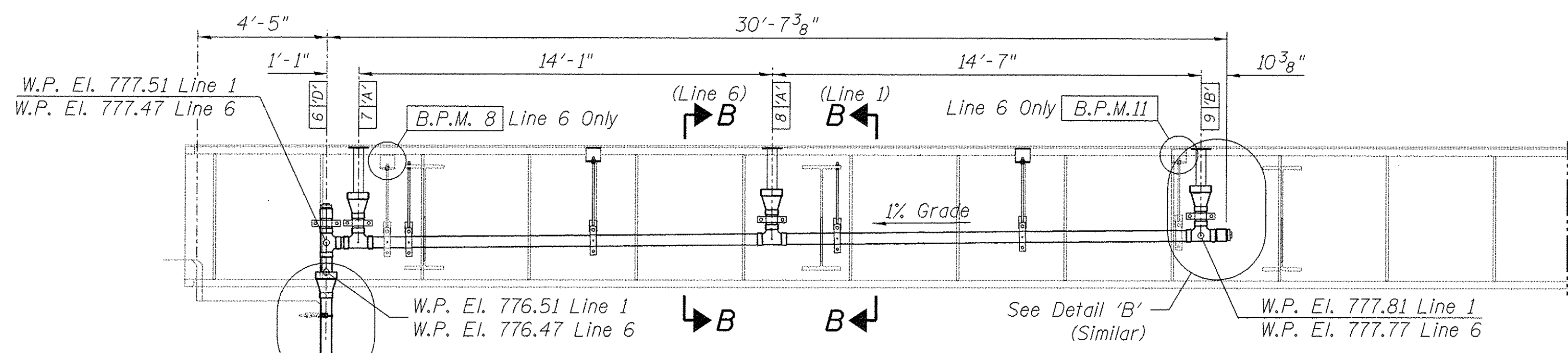
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK DRAINAGE PLAN - SPAN #2 SOUTH HALF
 STRUCTURE 048-9928**

SHEET NO. 28 OF 52 SHEETS

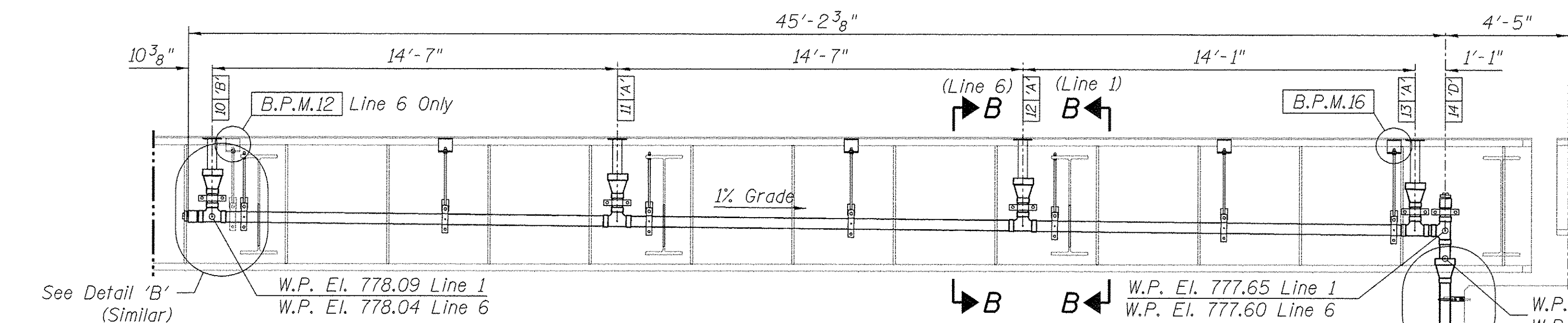
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-G5	KNOX	221	108
CONTRACT NO.			89417	

ILLINOIS FED. AID PROJECT



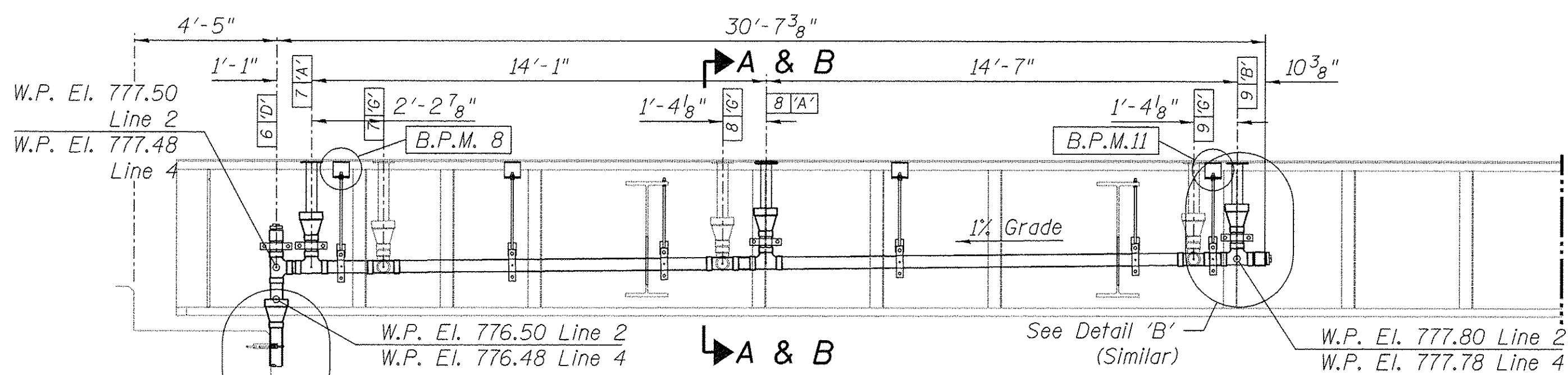
PROFILE - DRAIN LINES 1 & 6 - NORTH HALF - SPAN #2

(Drain Line 1 - Along Girder #1 - Bridge for Track #1)
 (Drain Line 6 - Along Girder #15 - Bridge for Track #3)



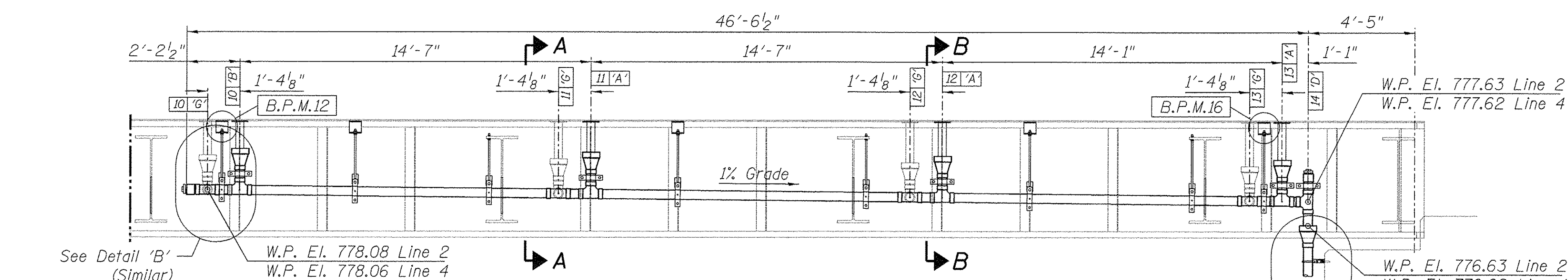
PROFILE - DRAIN LINES 1 & 6 - SOUTH HALF - SPAN #2

(Drain Line 1 - Along Girder #1 - Bridge for Track #1)
 (Drain Line 6 - Along Girder #15 - Bridge for Track #3)



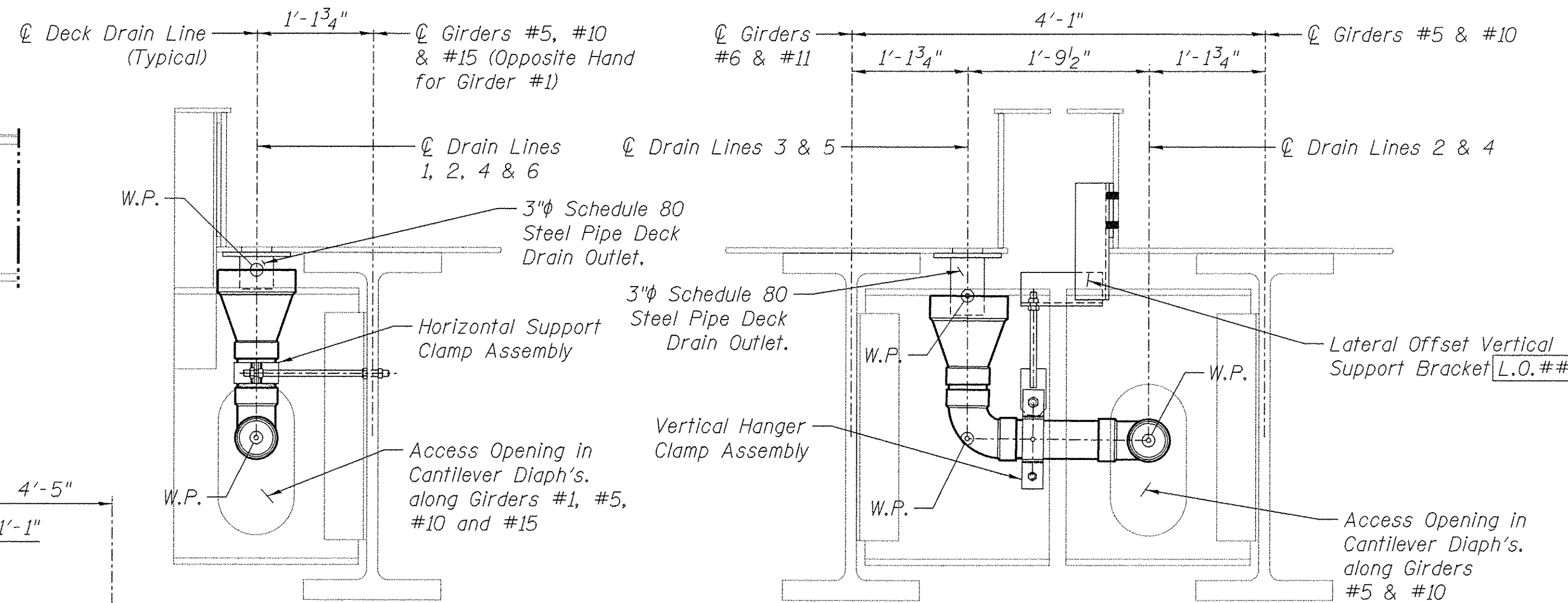
PROFILE - DRAIN LINES 2 & 4 - NORTH HALF - SPAN #2

(Drain Line 2 - Along Girder #5 - Bridge for Track #1)
 (Drain Line 4 - Along Girder #10 - Bridge for Track #2)



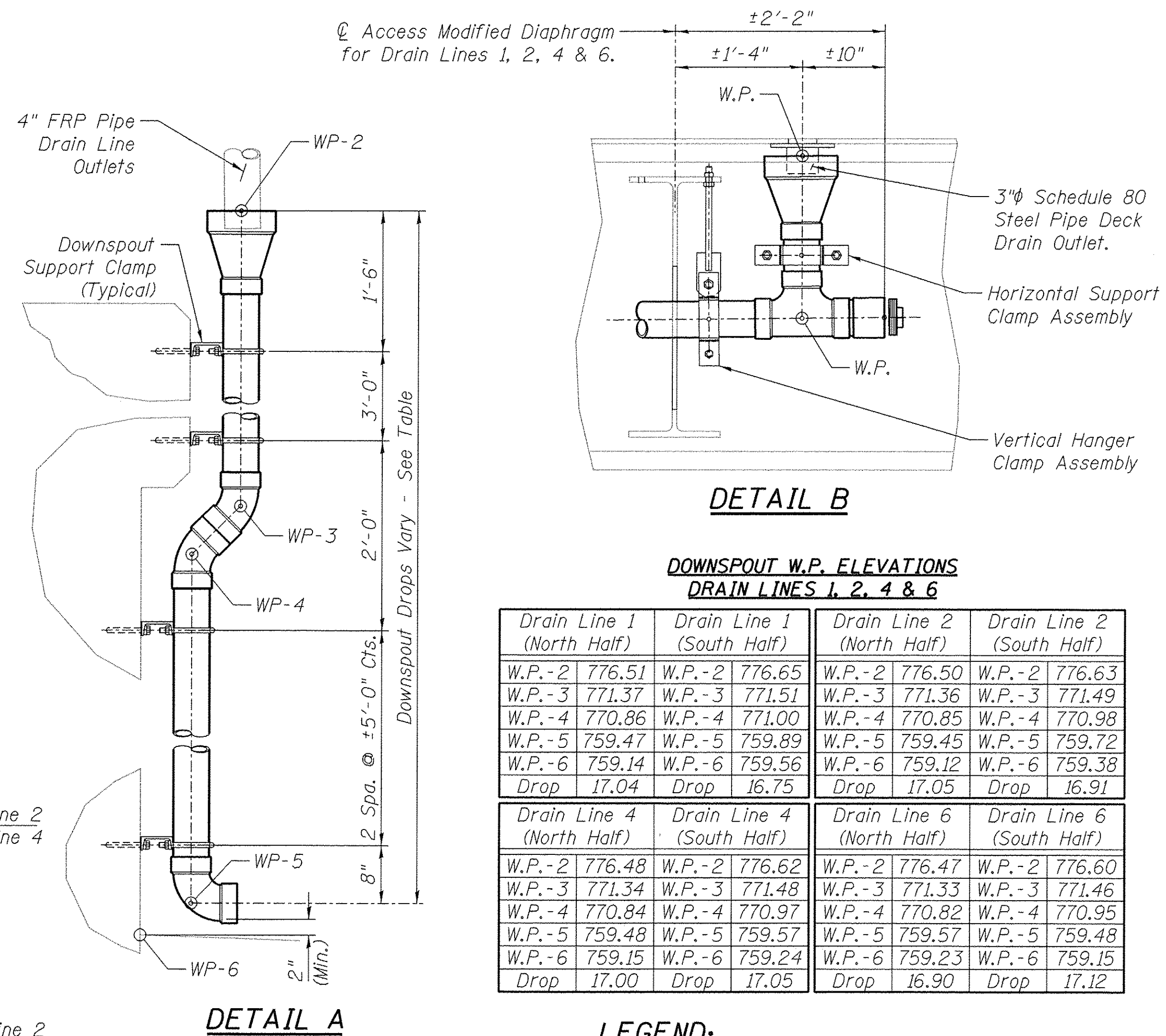
PROFILE - DRAIN LINE 2 & 4 - SOUTH HALF - SPAN #2

(Drain Line 2 - Along Girder #5 - Bridge for Track #1)
 (Drain Line 4 - Along Girder #10 - Bridge for Track #2)



SECTION B-B

SECTION A-A



DETAIL B

**DOWNSPOUT W.P. ELEVATIONS
DRAIN LINES 1, 2, 4 & 6**

Drain Line 1 (North Half)	Drain Line 1 (South Half)	Drain Line 2 (North Half)	Drain Line 2 (South Half)
W.P.-2 776.51	W.P.-2 776.65	W.P.-2 776.50	W.P.-2 776.63
W.P.-3 771.37	W.P.-3 771.51	W.P.-3 771.36	W.P.-3 771.49
W.P.-4 770.86	W.P.-4 771.00	W.P.-4 770.85	W.P.-4 770.98
W.P.-5 759.47	W.P.-5 759.89	W.P.-5 759.45	W.P.-5 759.72
W.P.-6 759.14	W.P.-6 759.56	W.P.-6 759.12	W.P.-6 759.38
Drop 17.04	Drop 16.75	Drop 17.05	Drop 16.91

Drain Line 4 (North Half)	Drain Line 4 (South Half)	Drain Line 6 (North Half)	Drain Line 6 (South Half)
W.P.-2 776.48	W.P.-2 776.62	W.P.-2 776.47	W.P.-2 776.60
W.P.-3 771.34	W.P.-3 771.48	W.P.-3 771.33	W.P.-3 771.46
W.P.-4 770.84	W.P.-4 770.97	W.P.-4 770.82	W.P.-4 770.95
W.P.-5 759.48	W.P.-5 759.57	W.P.-5 759.57	W.P.-5 759.48
W.P.-6 759.15	W.P.-6 759.24	W.P.-6 759.23	W.P.-6 759.15
Drop 17.00	Drop 17.05	Drop 16.90	Drop 17.12

LEGEND:

Line Fitting Designation — Line Fitting Type

B.P.M.## Ballast Pan Mounted Vertical Support Bracket

L.O.## Lateral Offset Vertical Support Bracket

DESIGNED JEC 5-22-15
 DRAWN GTJ 5-22-15
 REVIEWED MAF 5-29-15

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USER NAME = andr00846
 PLOT SCALE = 0.083333 ' / in.
 PLOT DATE = 9/8/2015

DESIGNED - JEC
 CHECKED - MAF
 DRAWN - RAH
 CHECKED - MAF

REVISED -
 REVISED -
 REVISED -
 REVISED -

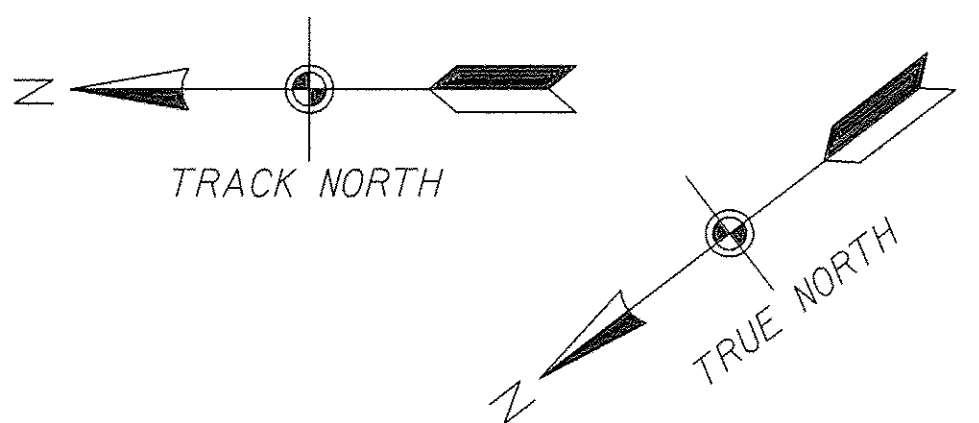
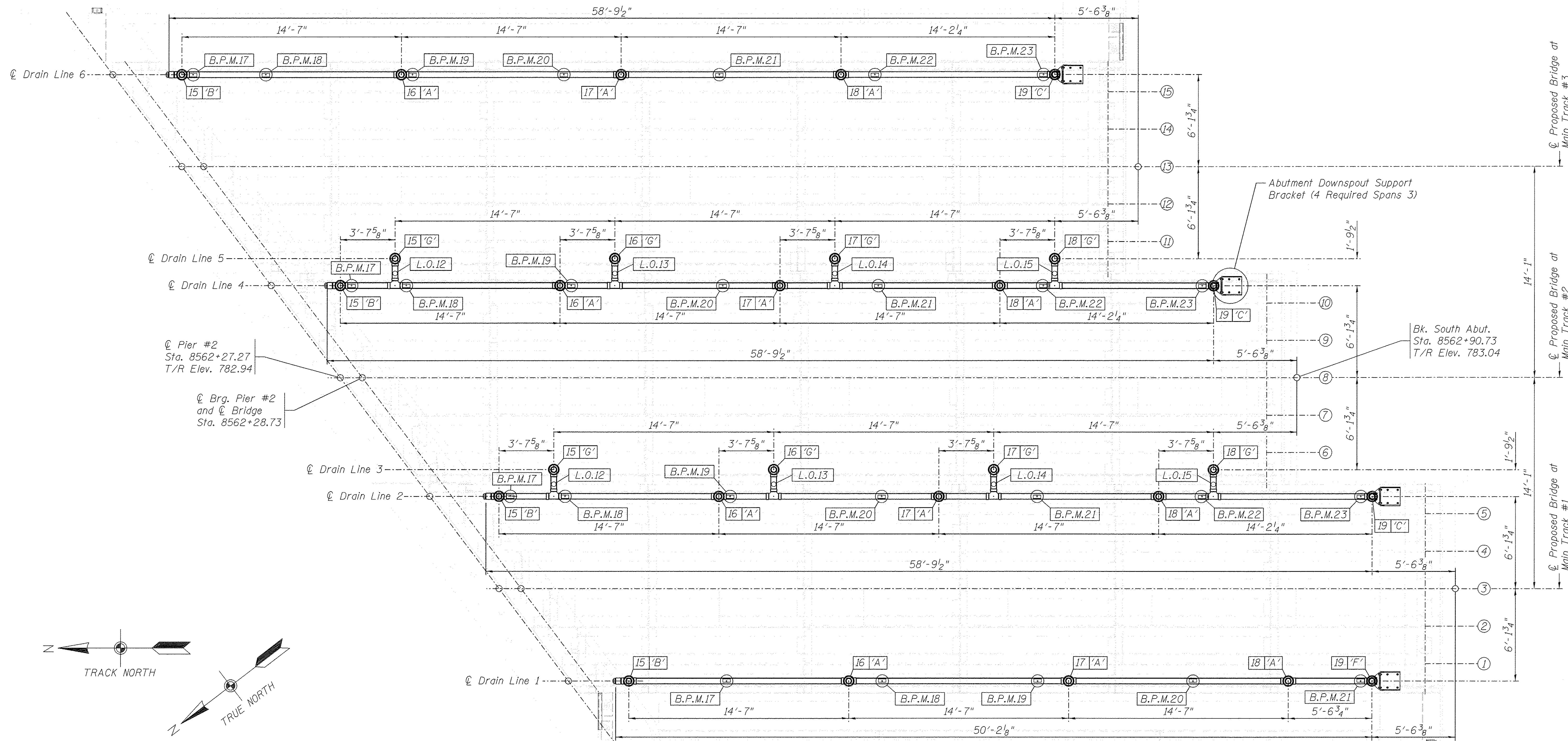
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAIN LINE PROFILES - SPAN #2
STRUCTURE 048-9928**

SHEET NO. 29 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	109

CONTRACT NO. 89417
 ILLINOIS FED. AID PROJECT



LEGEND:

- Line Fitting Designation 15 'B' Line Fitting Type
- B.P.M.## Ballast Pan Mounted Vertical Support Bracket
- L.O.## Lateral Offset Vertical Support Bracket

PLAN VIEW - DECK DRAINAGE - SPAN #3
(Proposed Bridge - Track #1 thru #3)

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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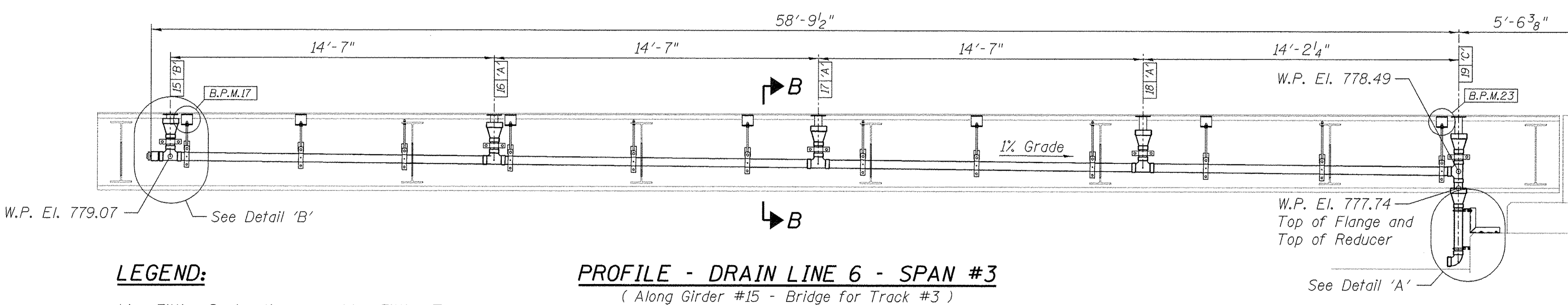
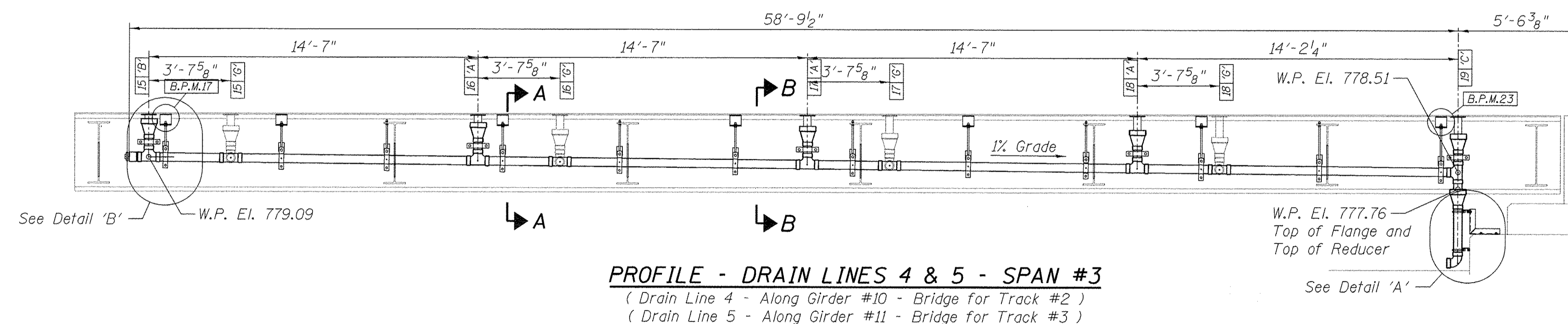
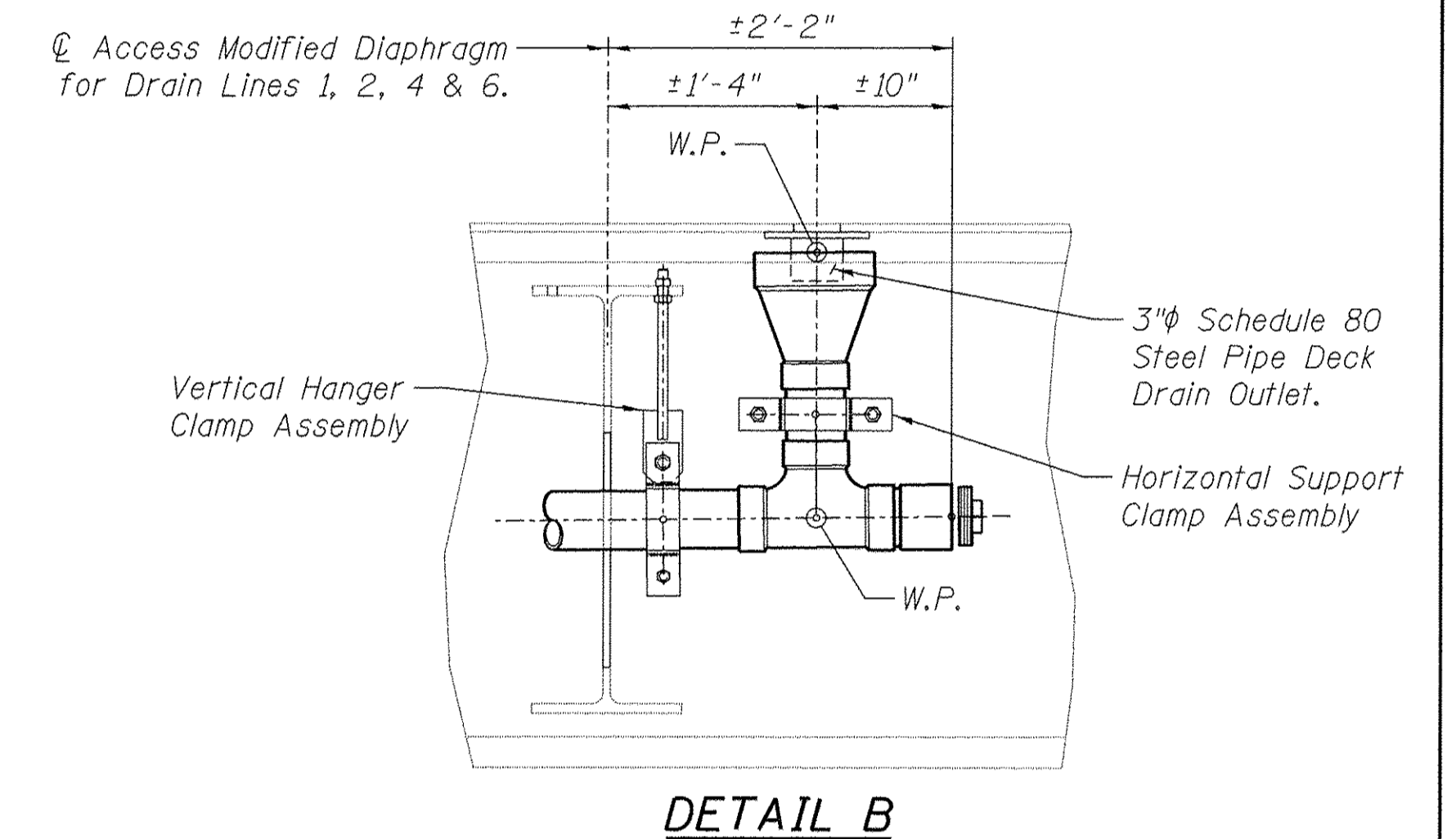
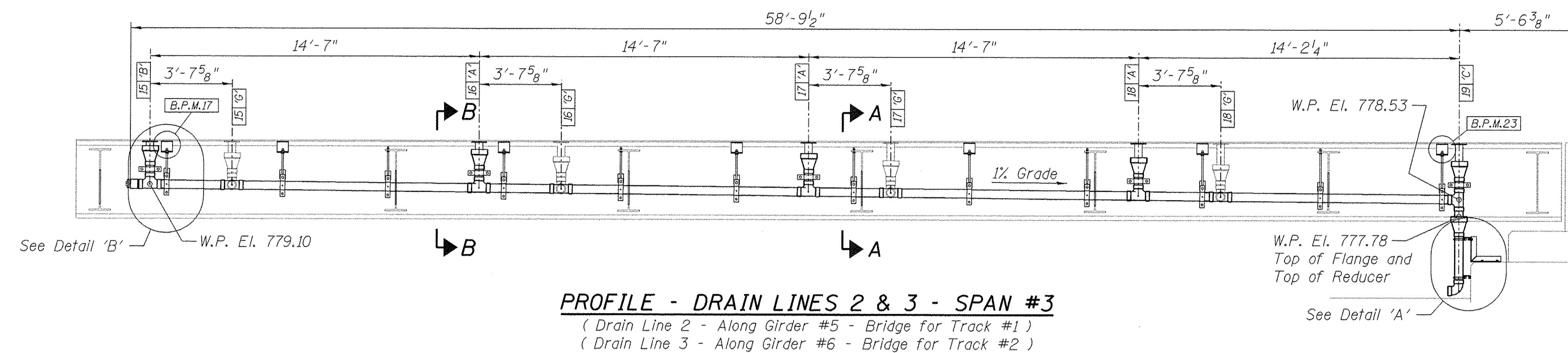
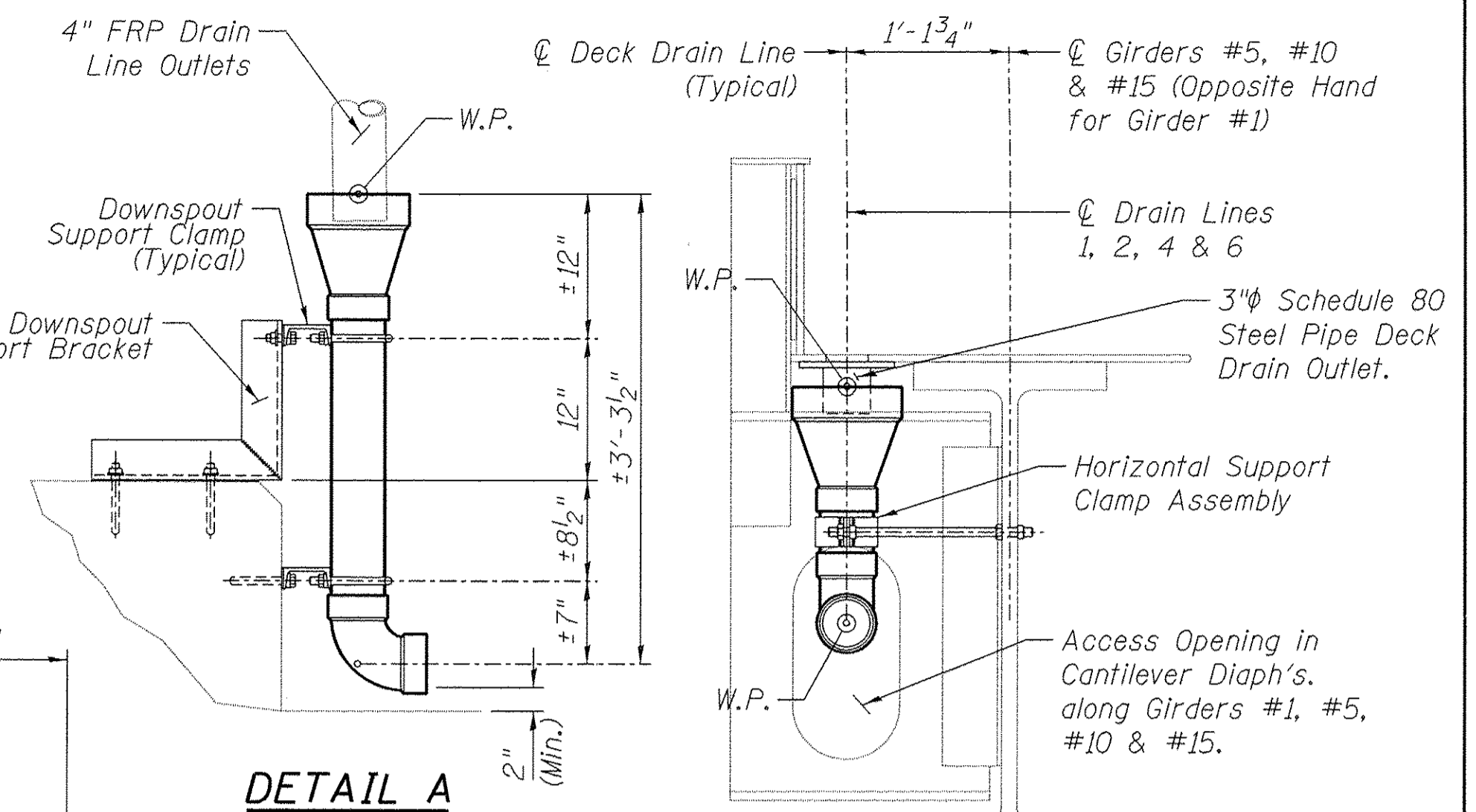
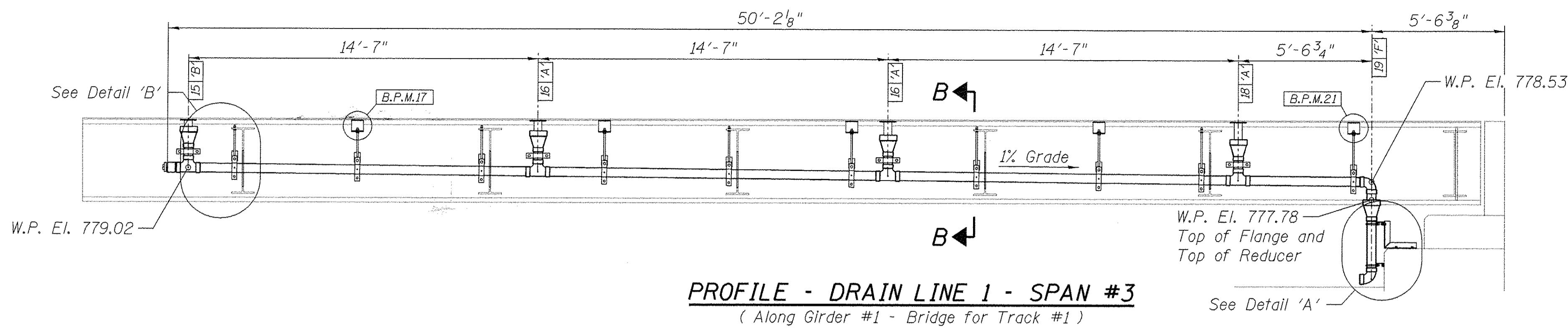
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK DRAINAGE PLAN - SPAN #3
STRUCTURE 048-9928**

SHEET NO. 30 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-G5	KNOX	221	110
CONTRACT NO.			89417	

ILLINOIS FED. AID PROJECT



LEGEND:

Line Fitting Designation — Line Fitting Type

- B.P.M.## Ballast Pan Mounted Vertical Support Bracket
- L.O.## Lateral Offset Vertical Support Bracket

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

PROJECT: \\sp1\svr306.hanson.dom\hanson_projects\Documents\09Jobs\09L0105\CAD-Phase1\Struct\Sheet\048\0105-Deck_Drainage-10

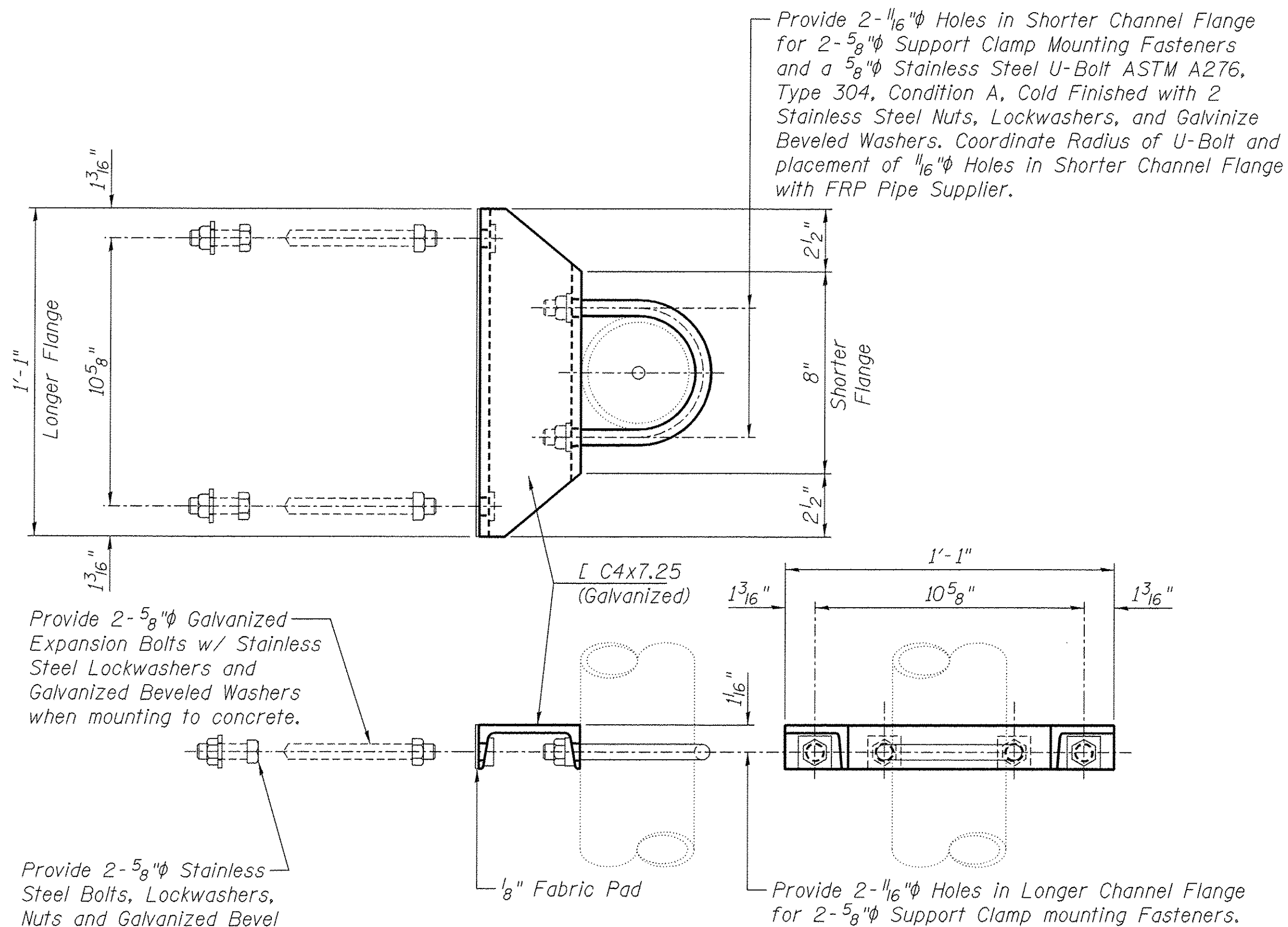
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		CHECKED -	MAF	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

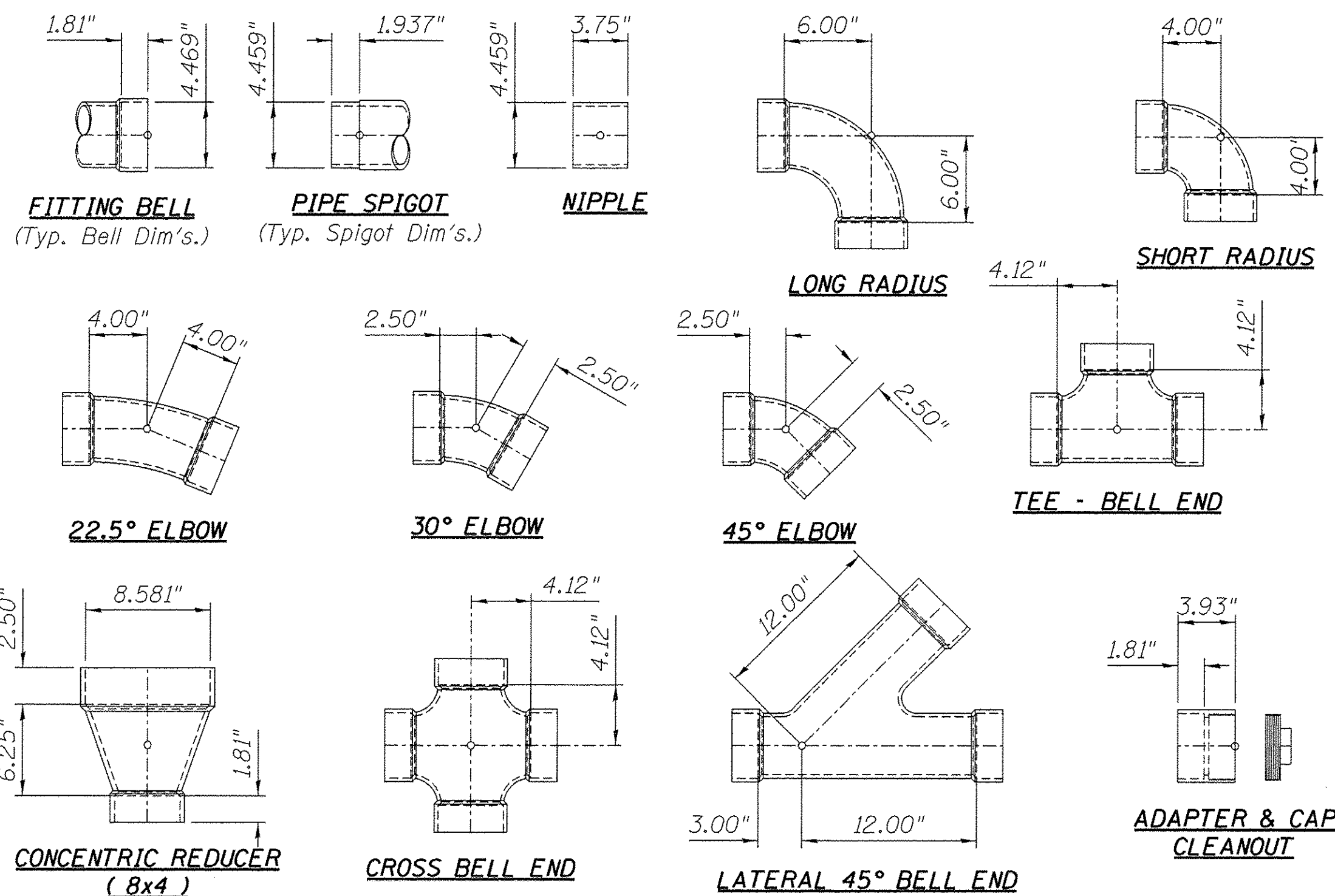
**DRAIN LINE PROFILES - SPAN #3
STRUCTURE 048-9928**

SHEET NO. 31 OF 52 SHEETS

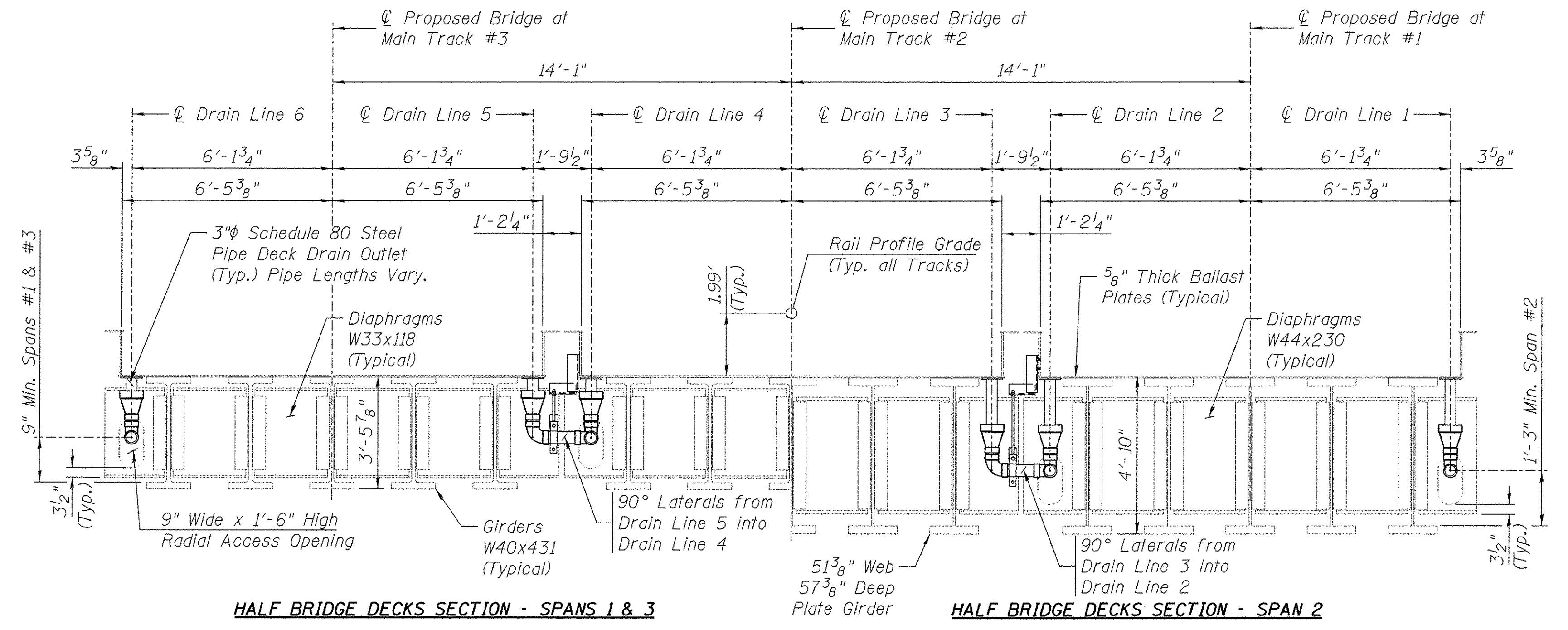
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6800	05-00500-19-GS	KNOX	221	111
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



DOWNSPOUT SUPPORT CLAMP
(60 Required)



4" ϕ FRP BELL & SPIGOT PIPE FITTINGS with STRUCTURAL ADHESIVE WELD BONDED JOINTS

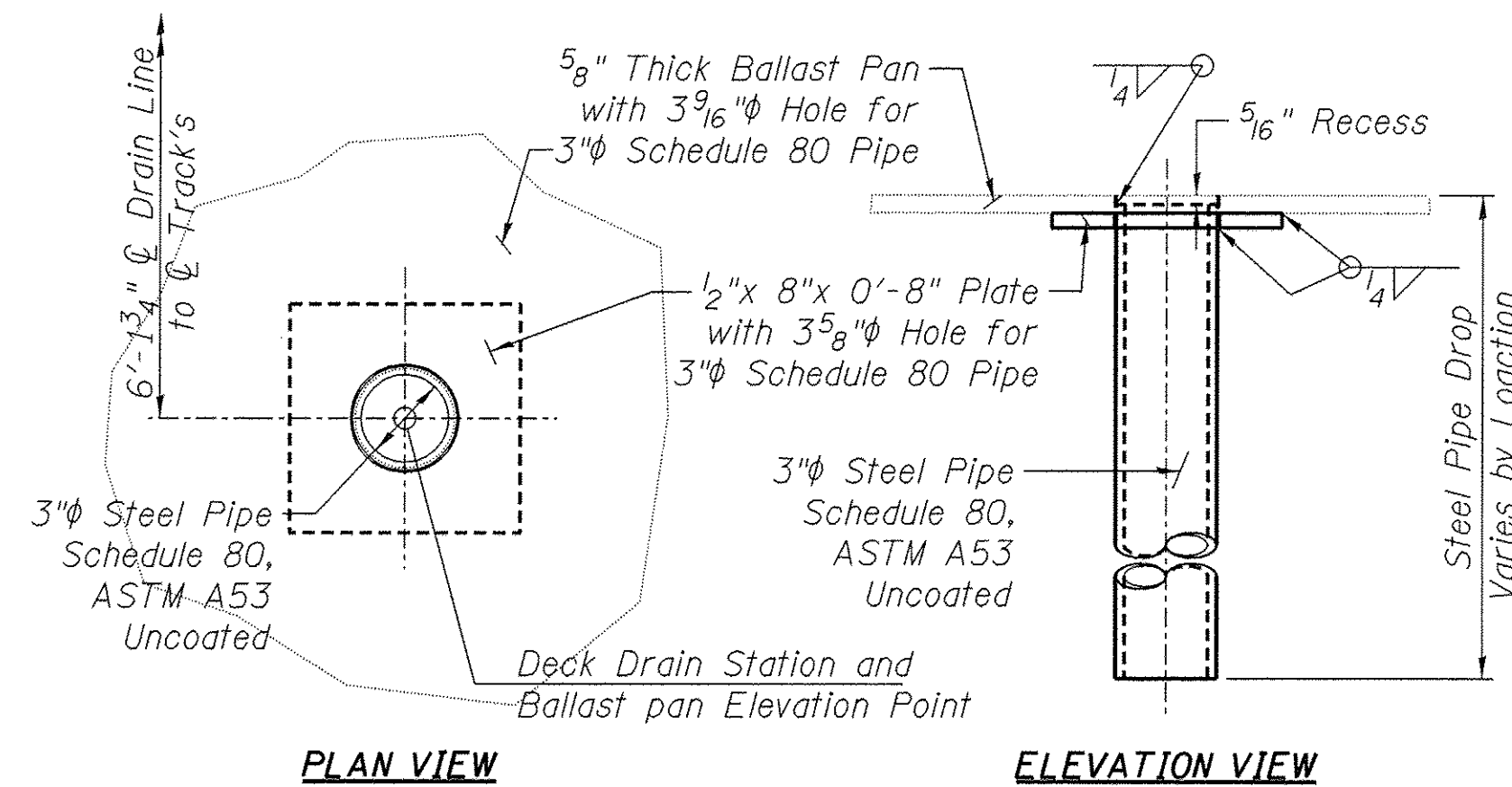


HALF BRIDGE DECKS SECTION - SPANS 1 & 3

HALF BRIDGE DECKS SECTION - SPAN 2

COMBINED DECKS SECTION - SHOWING DRAINAGE LOCATIONS - ALL TRACKS

(Looking Track South - UpStation)

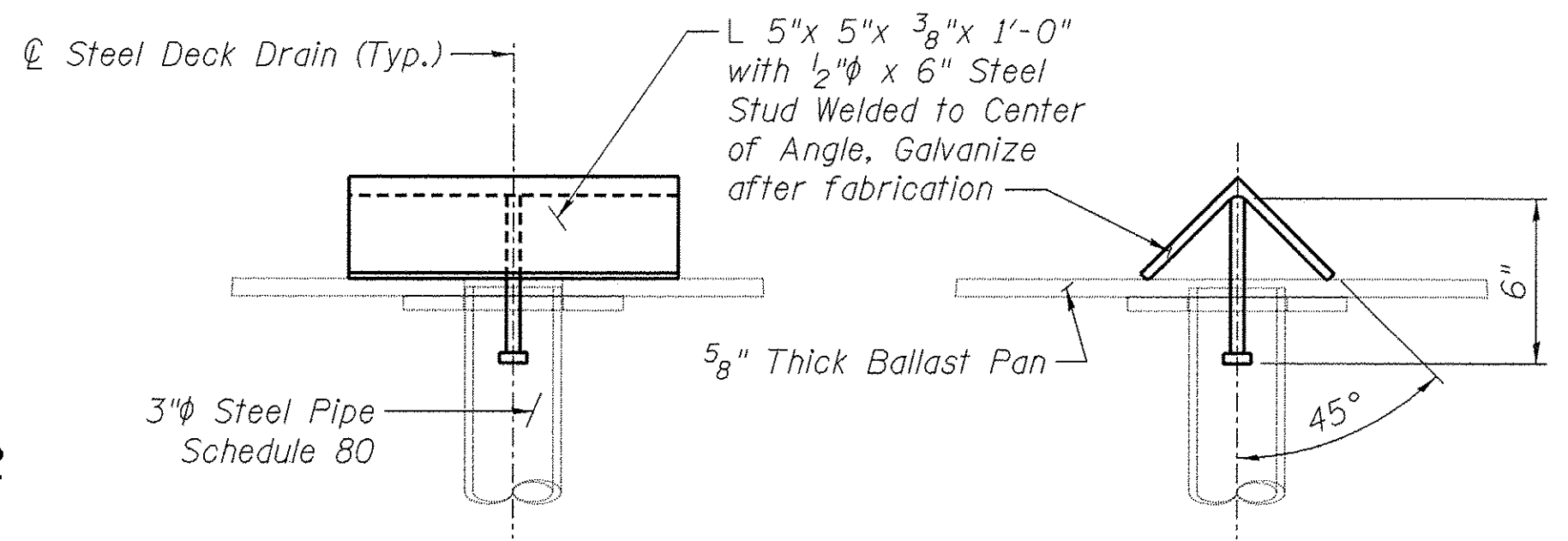


PLAN VIEW

ELEVATION VIEW

STEEL DECK DRAIN DETAILS

(96 Required)



DROP-IN STEEL DRAIN COVER DETAILS

(96 Required)

GENERAL NOTES - BRIDGE DRAINAGE SYSTEM

Pipe, Fittings, Brackets, Clamps, all fastening and mounting hardware, pipe supplier approved weld bond structural adhesive for pipe joints, fabrication and installation shall be included in the cost of "Drainage System", Lump Sum.

Due to the confined installation locations, the pipe fittings shown were used in the development of the Drainage System, and are available domestically.

The Fiberglass Reinforced Pipe (F.R.P.) or (FRP) shall have a 4" Nominal Inside Diameter, meeting the requirements of ASTM D-2996 RTRP with a 30,000 p.s.i. minimum short-time rupture strength hoop tensile stress. The locations of pipe supports shown are maximum spacings, the Contractor shall coordinate with pipe supplier and structural steel fabricator for spacing requirement variations from those shown in the Drainage System.

The steel components used for support brackets and clamps shall meet the requirements of ASTM A36 or ASTM A572.

All pipe hangers, brackets and hardware shall be hot-dipped galvanized after fabrication in accordance with ASTM A-153 unless otherwise noted. All bolts, nuts and washers shall be stainless steel unless otherwise noted. Stainless steel bolts shall conform to the requirements of ASTM A-193, Class I, Grade 8 or 8F, 303 or 304, and stainless steel washers shall conform to ASTM A-240, Type 302 or 304.

The exterior surfaces of fiberglass pipe and fittings shall be cleaned according to Society of Protective Coating's Specification SSPC-SP1 prior to painting and shall be coated with an Engineer approved Munsell color.

DESIGNED	JFC	5-22-15
DRAWN	OTJ	5-22-15
REVIEWED	MAF	5-29-15

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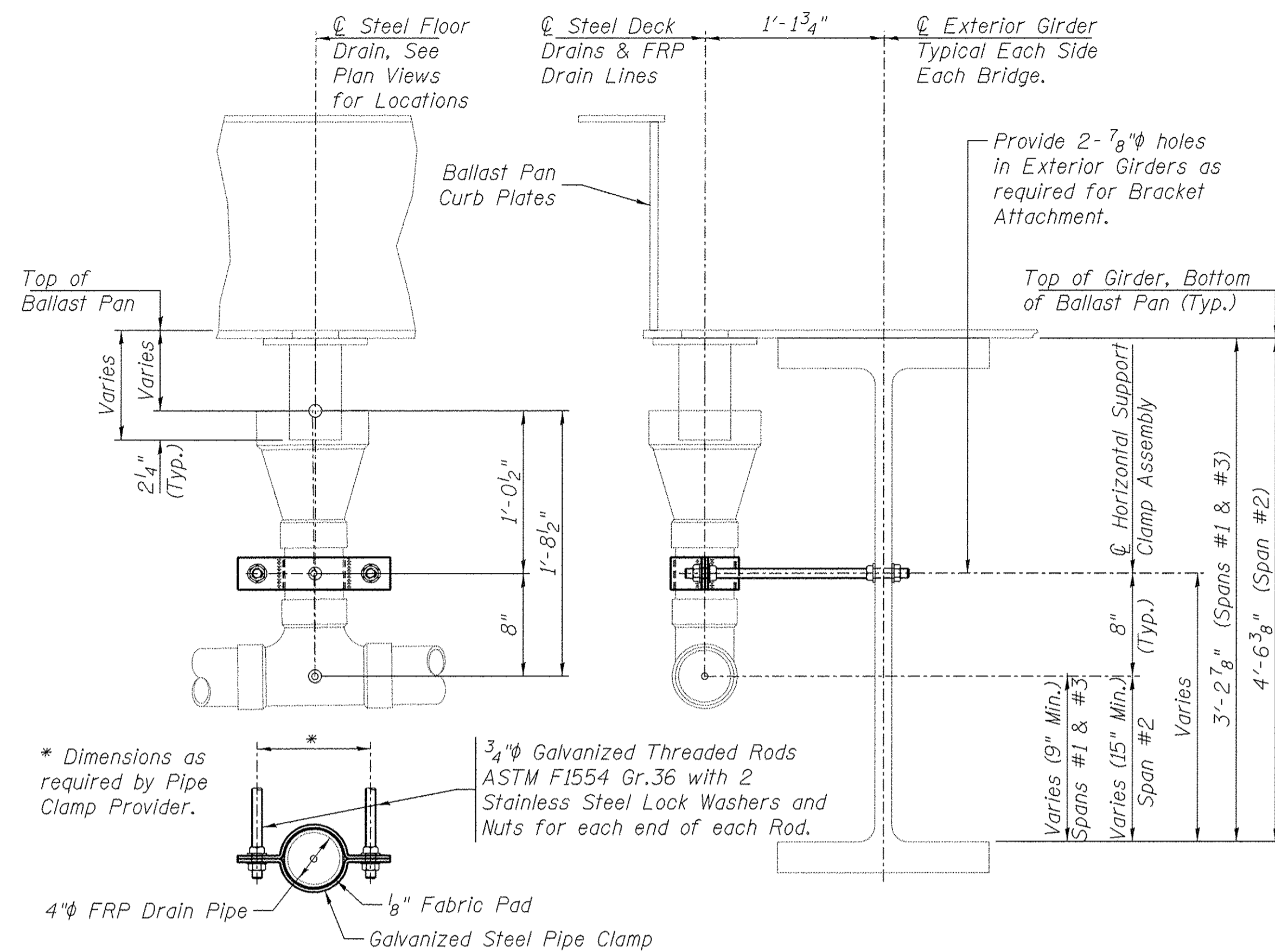
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	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

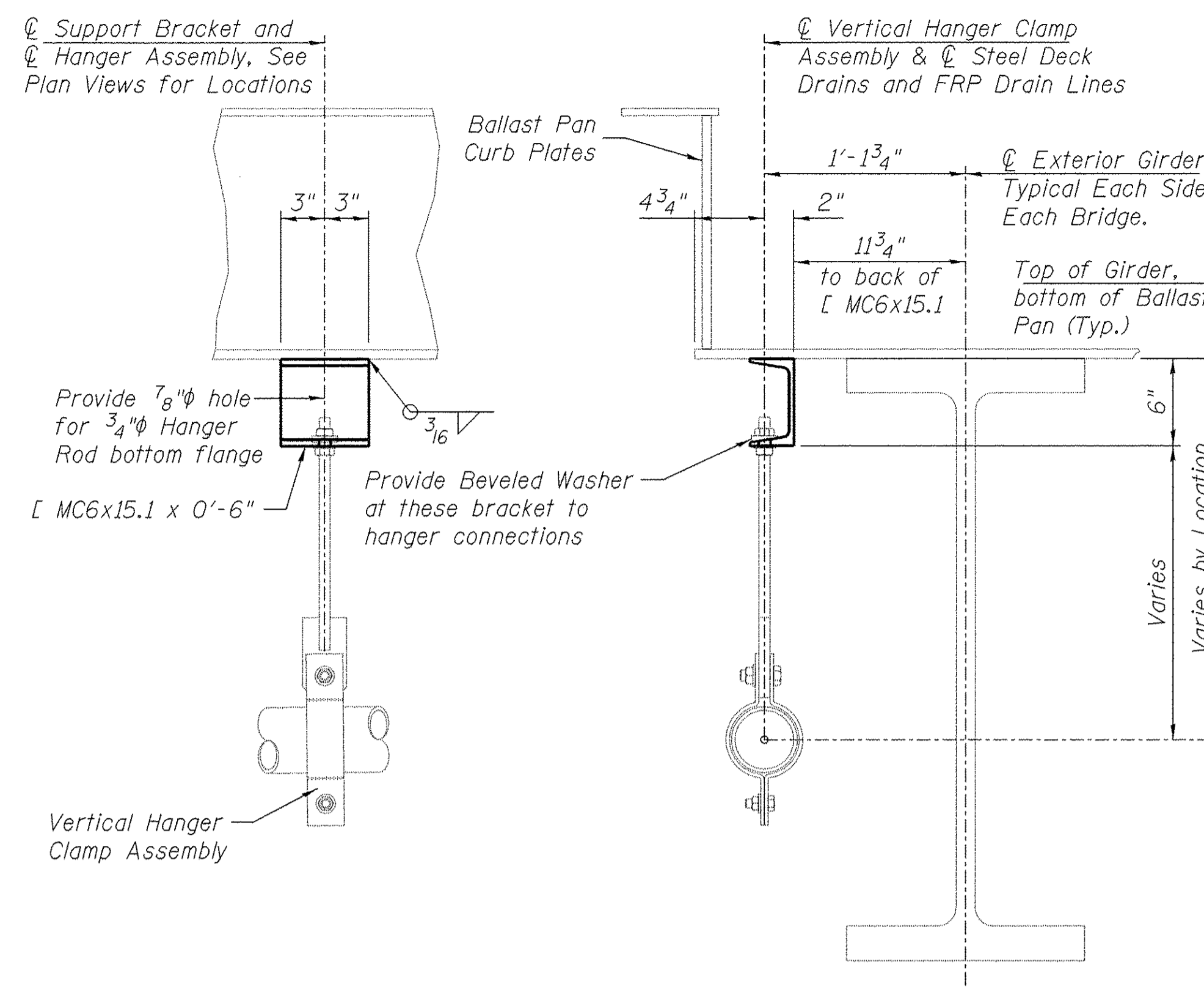
**DECK DRAINAGE SYSTEM DETAILS (SHEET 1 OF 3)
STRUCTURE 048-9928**

SHEET NO. 32 OF 52 SHEETS

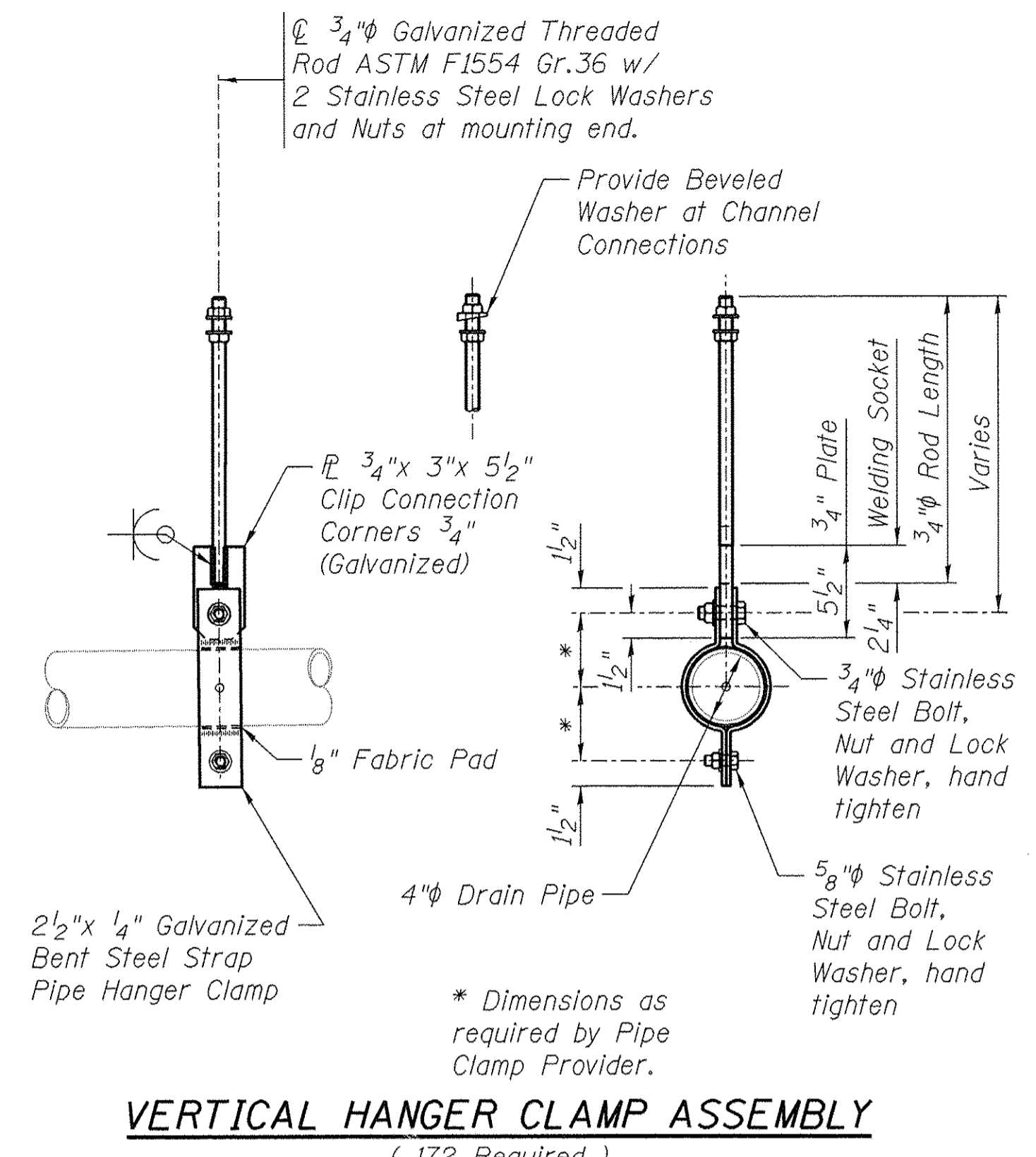
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	112
CONTRACT NO.				89417
ILLINOIS FED. AID PROJECT				



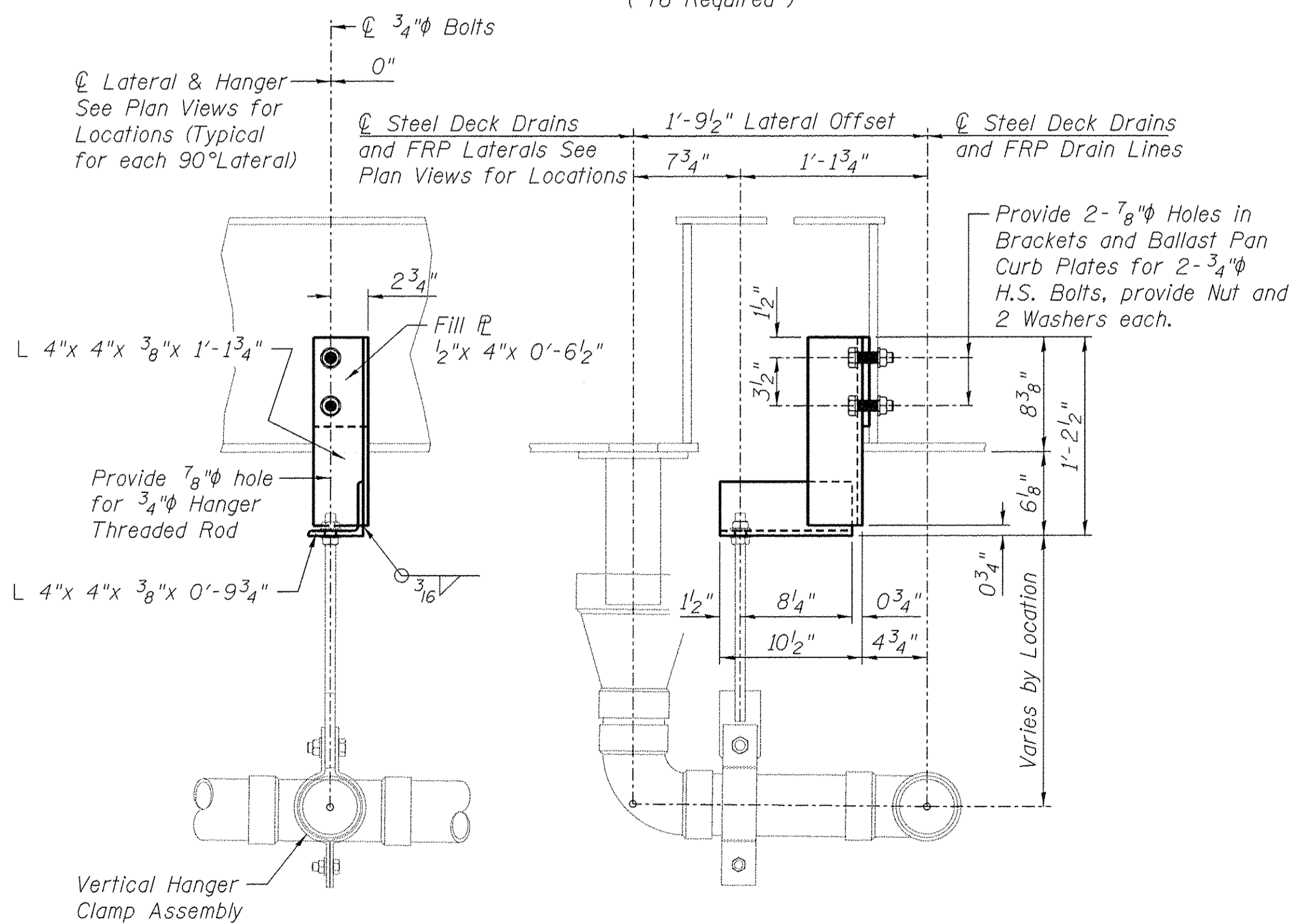
HORIZONTAL SUPPORT CLAMP ASSEMBLY
(76 Required)



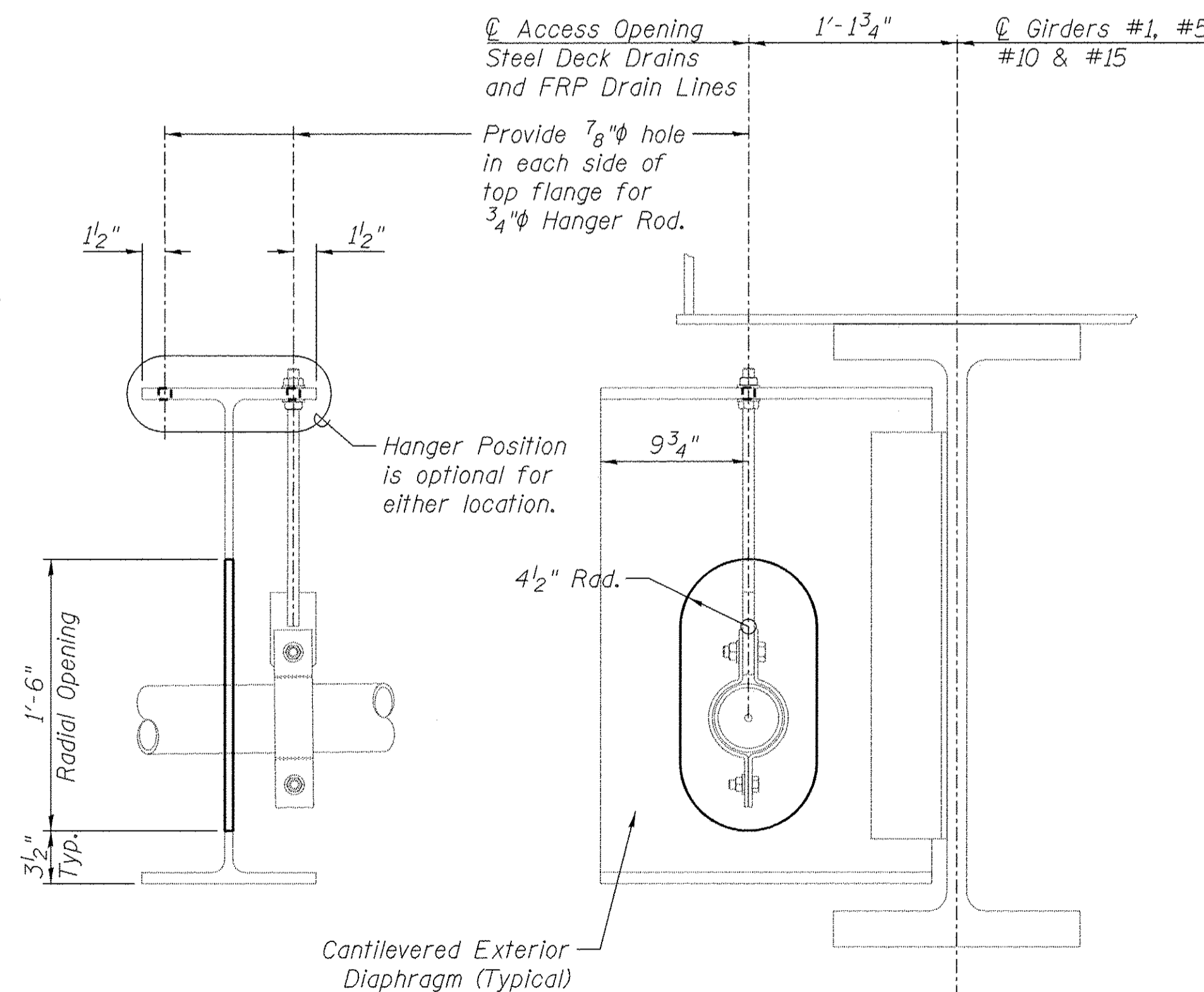
BALLAST PAN MOUNTED (B.P.M.##) VERTICAL SUPPORT BRACKET
(81 Required)



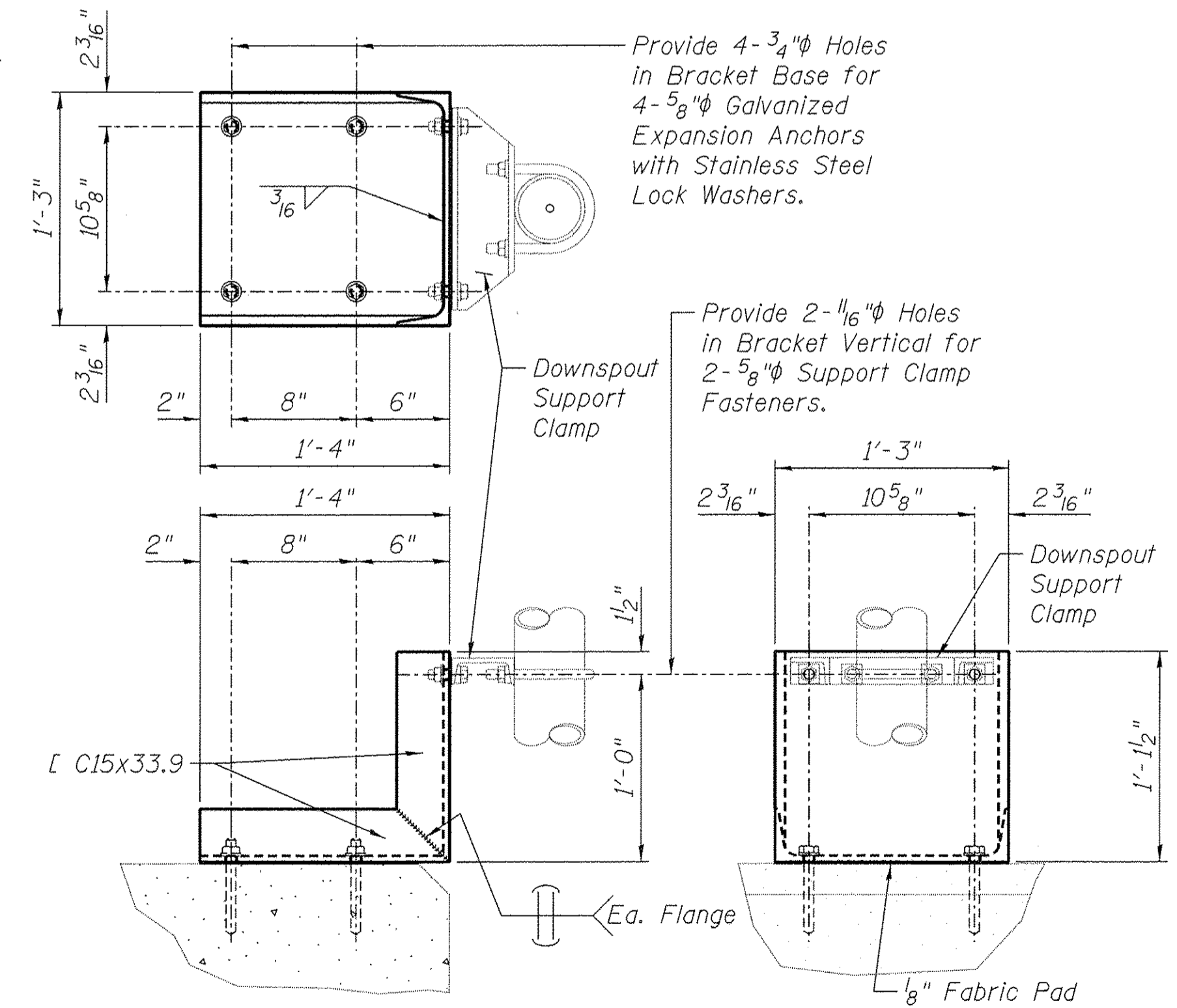
VERTICAL HANGER CLAMP ASSEMBLY
(172 Required)



LATERAL OFFSET (L.O.##) VERTICAL SUPPORT BRACKET
(30 Required)



TYPICAL EXTERIOR DIAPHRAGM ACCESS OPENING
(68 Locations)



ABUTMENT DOWNSPOUT SUPPORT BRACKET
(10 Required)

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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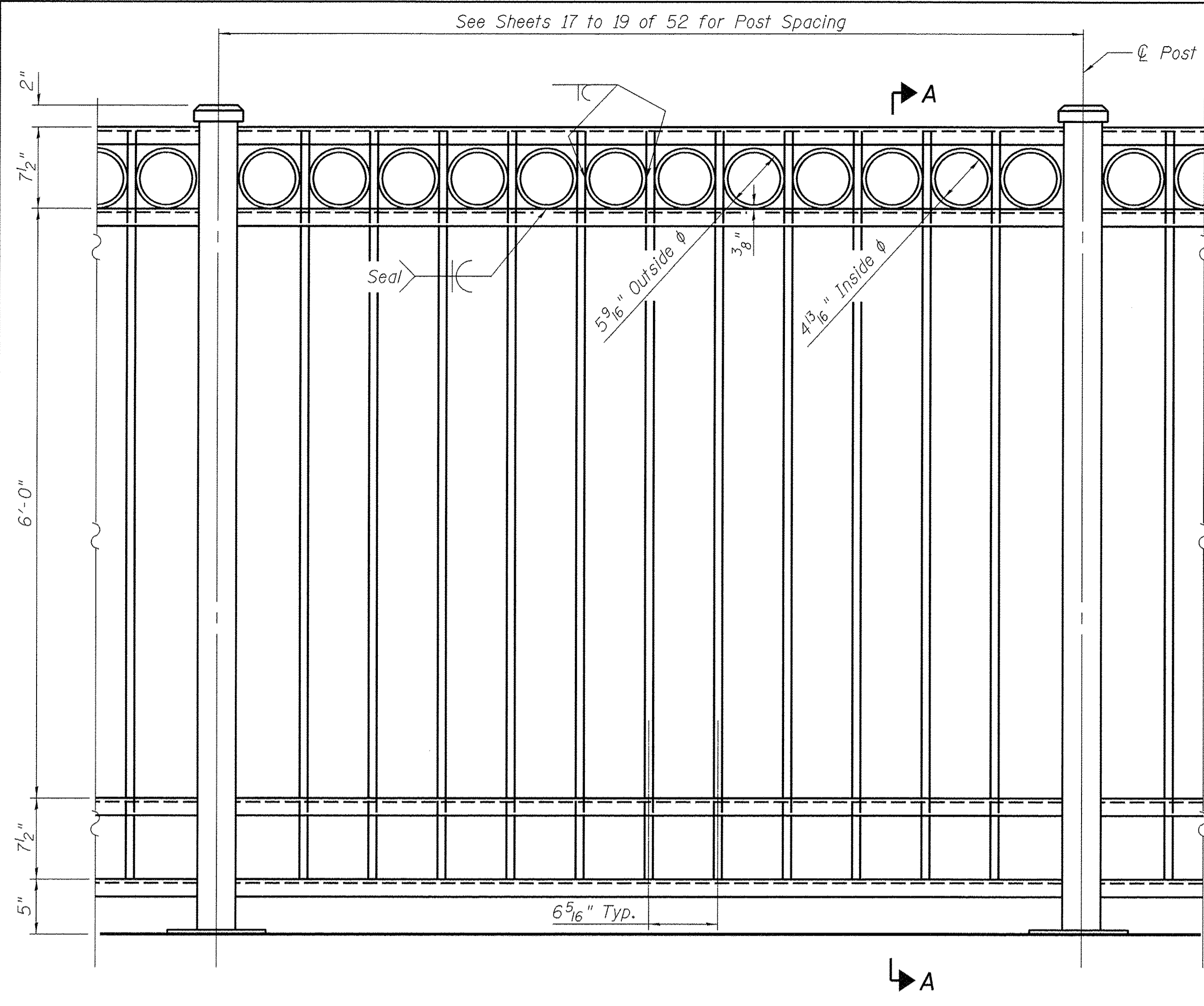
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CHECKED	- MAF	CHECKED	- MAF	REVISED	-
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PLOT DATE	= 9/8/2015	CHECKED	- MAF	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

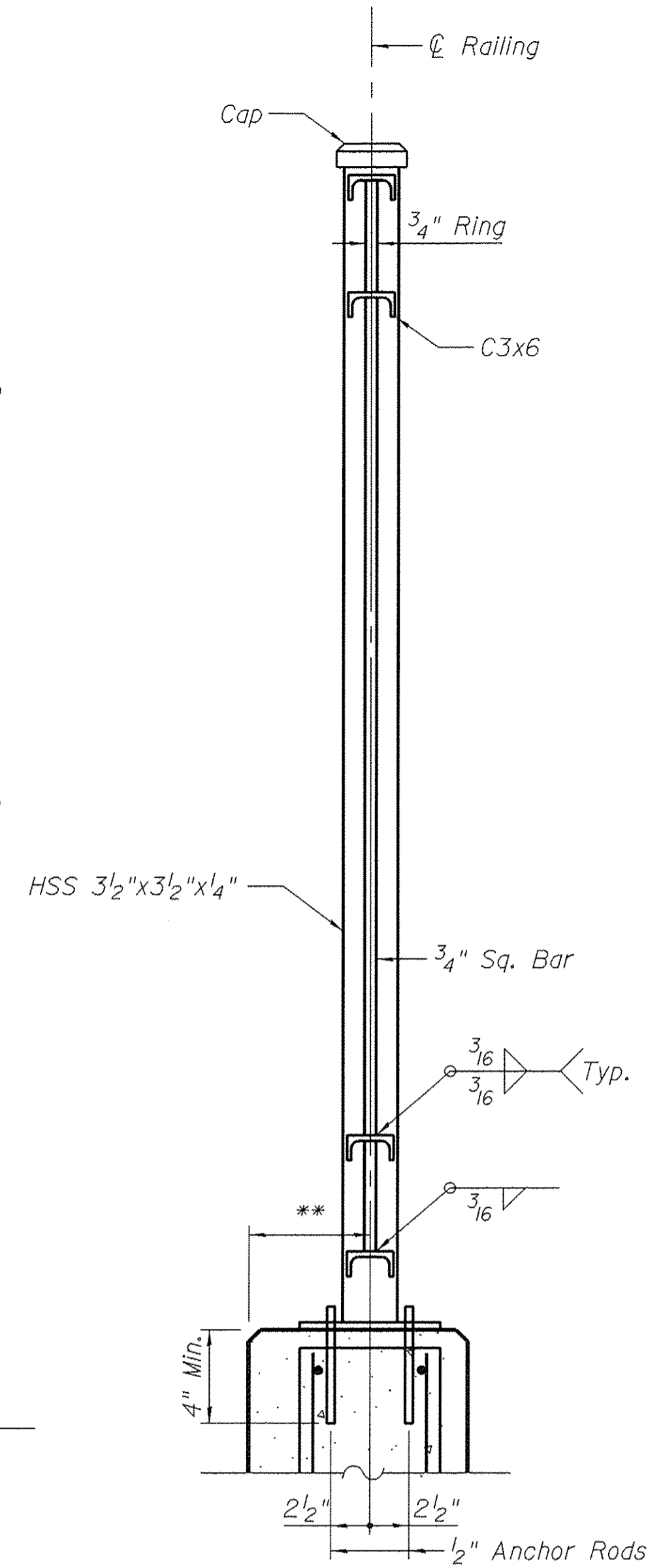
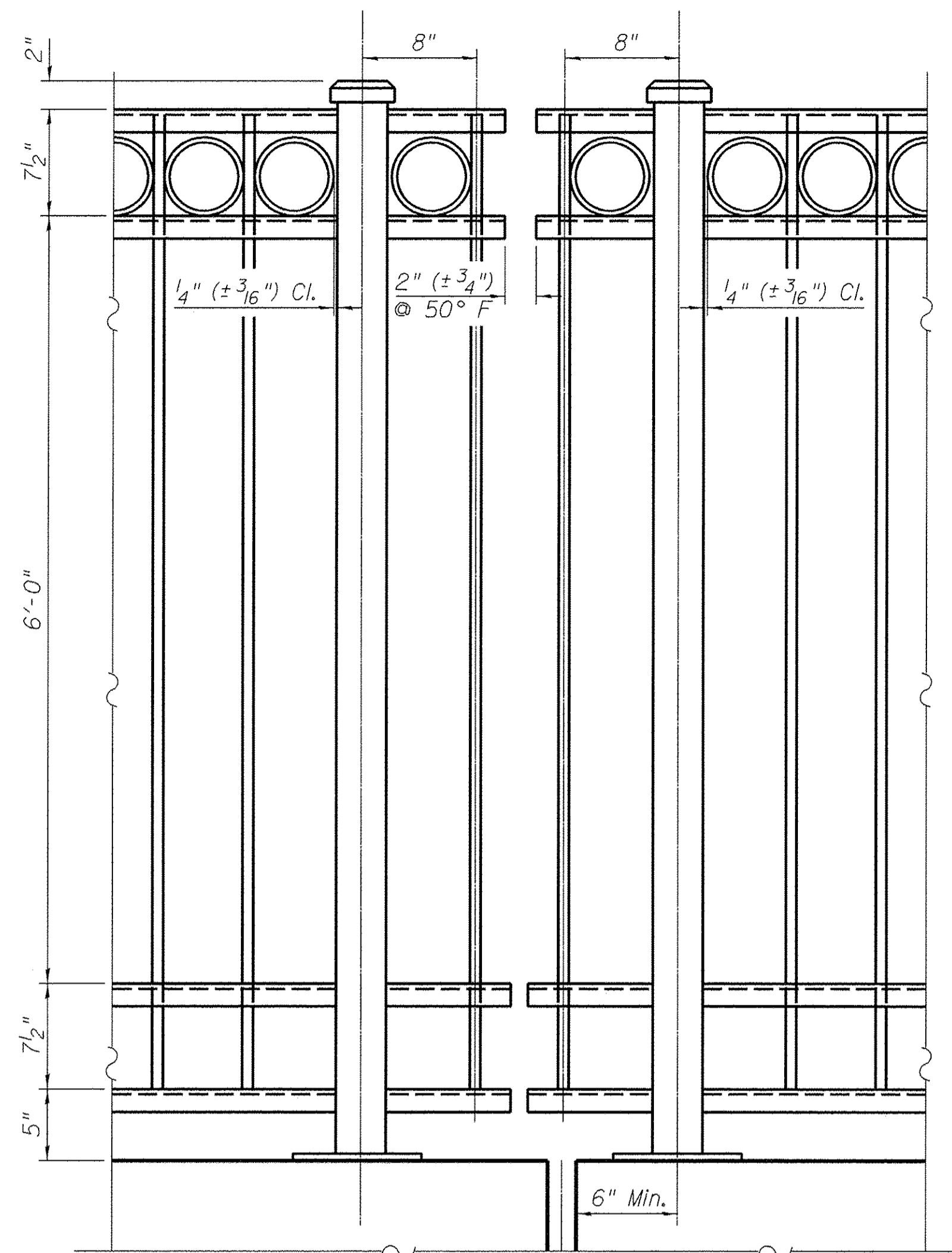
**DECK DRAINAGE SYSTEM DETAILS (SHEET 2 OF 3)
STRUCTURE 048-9928**

SHEET NO. 33 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	113
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



ELEVATION

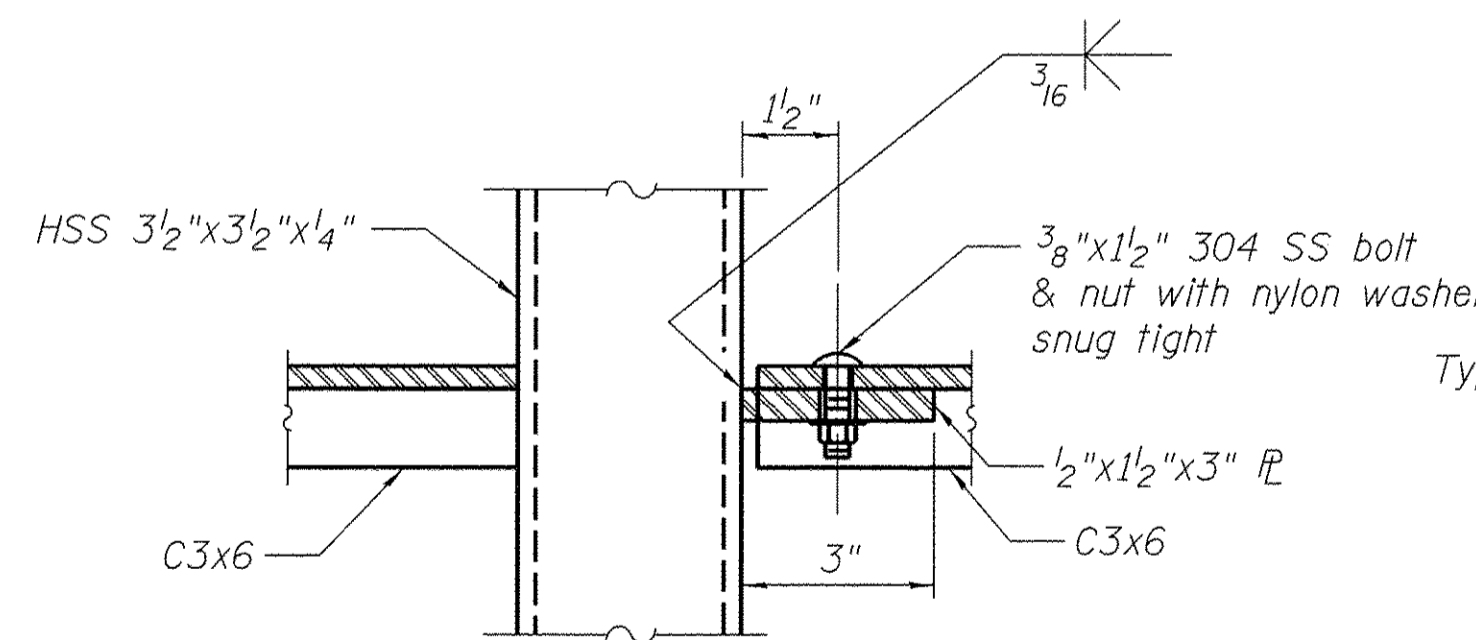


SECTION A-A

** Adjust to fit between reinforcement

NOTES

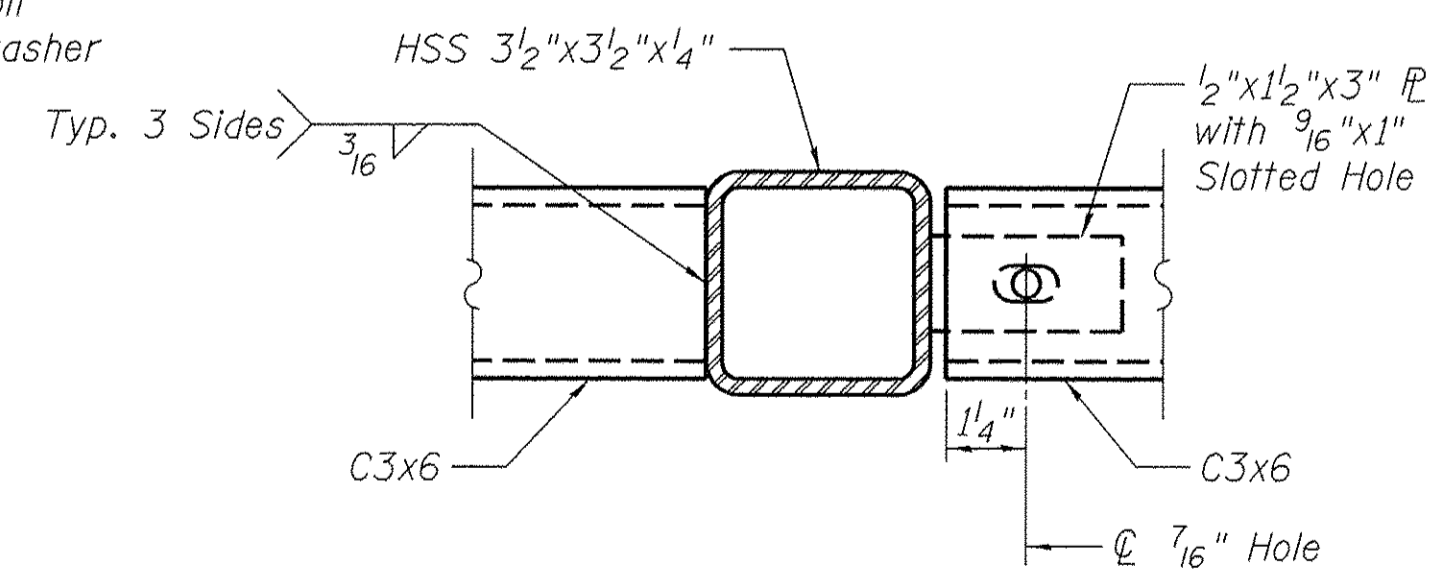
- Hollow structural steel tubing shall conform to the requirements of ASTM Designation A500, Grade B.
- All other steel shapes and plates shall conform to the requirements of AASHTO M270 Grade 36.
- Posts, railings and plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A385. Vent holes for galvanizing shall be placed in the post at locations that will not allow accumulation of moisture in the member. Final finish of members to be per Special Provisions.
- All welds shall be seal-welds and shall be minimum size per AWS Standards unless noted otherwise.
- Provide stainless steel shim plates for each post.
- Anchor rods shall be ASTM F568M galvanized steel all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified.
- Rails are to be installed parallel to the top surface of the parapet, and posts are to be installed plumb and true.
- Post spacings shown on the structure plans are based on the bridge dimensions as shown. Contractor shall verify that the bridge is constructed to the intended lines and grades prior to fabrication. Any adjustments needed to fit the as-constructed bridge shall be at the expense of the Contractor.



SHOP CONNECTION

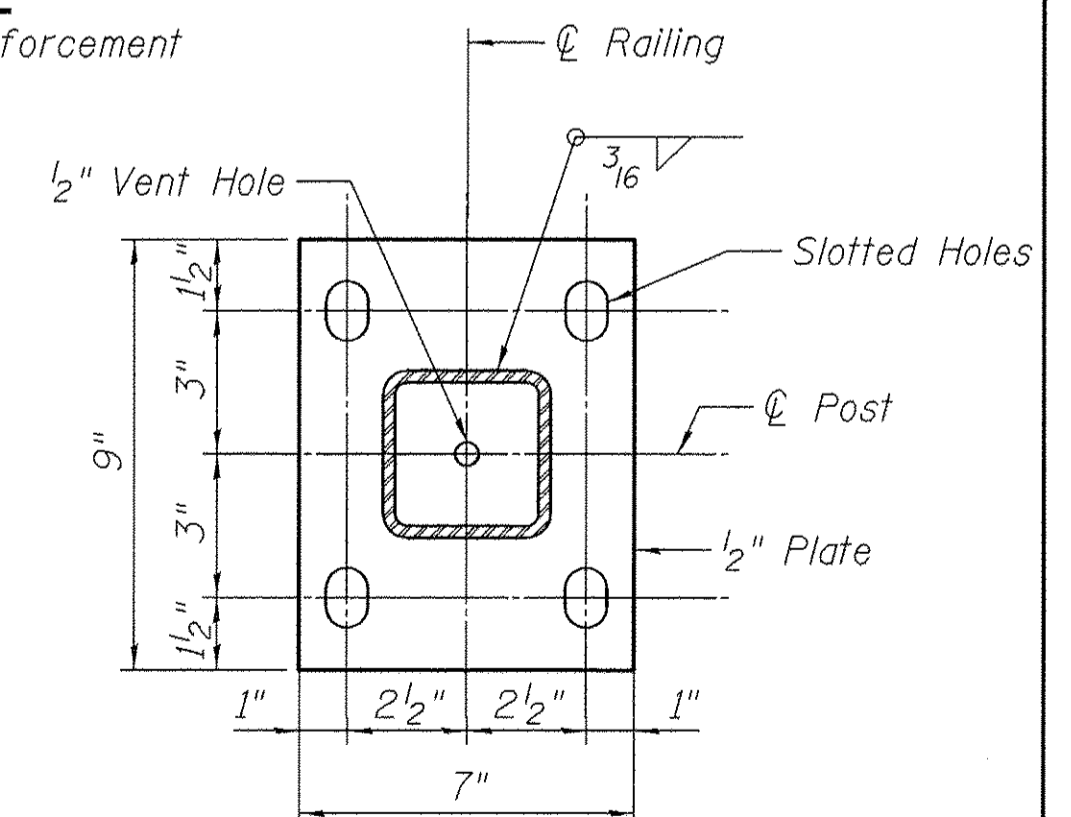
SECTION

FIELD CONNECTION



PLAN

PLAN RAIL TO POST CONNECTION DETAILS



BASE PLATE

BILL OF MATERIAL

Item	Unit	Quantity
Fence (Special)	Foot	446

DESIGNED - JEC
DRAWN - GTJ
REVIEWED - MAF

\\sp1-svr306.hanson.dom\hanson_projects\Documents\09Jobs\091\0105\CAD-PhaseII\Struct\Sheet\048\0105-Fence_Details



USER NAME = andr00846	DESIGNED - JEC	REVISD -
PLOT SCALE = 1.0000 ' / in.	CHECKED - MAF	REVISD -
PLOT DATE = 9/8/2015	DRAWN - GTJ	REVISD -
	CHECKED - MAF	REVISD -

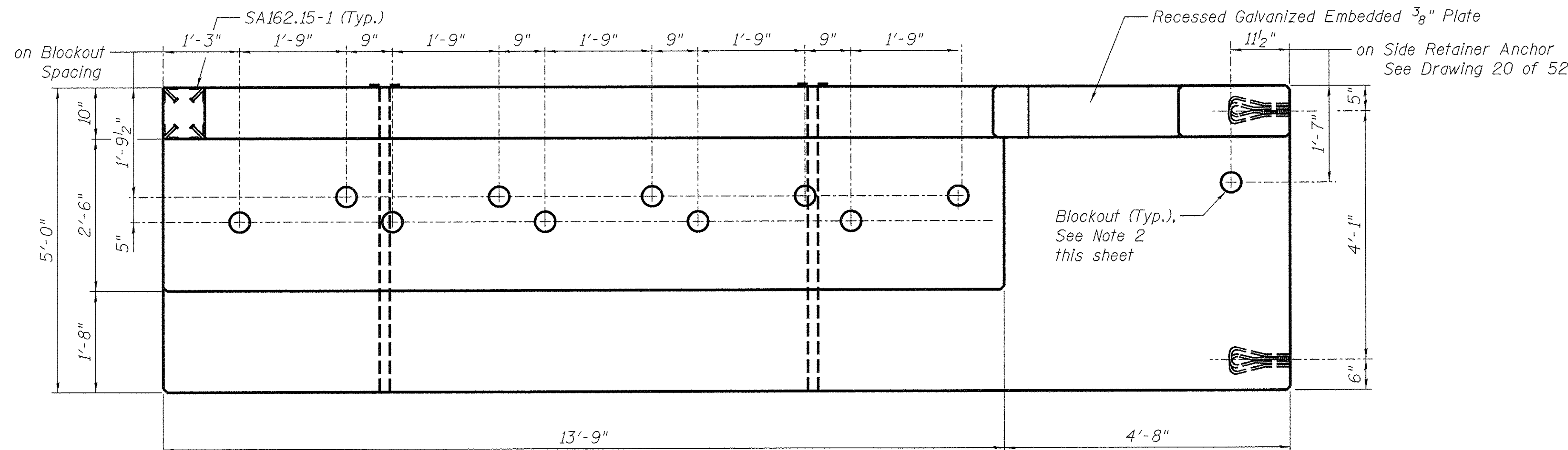
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FENCE DETAILS
STRUCTURE 048-9928**

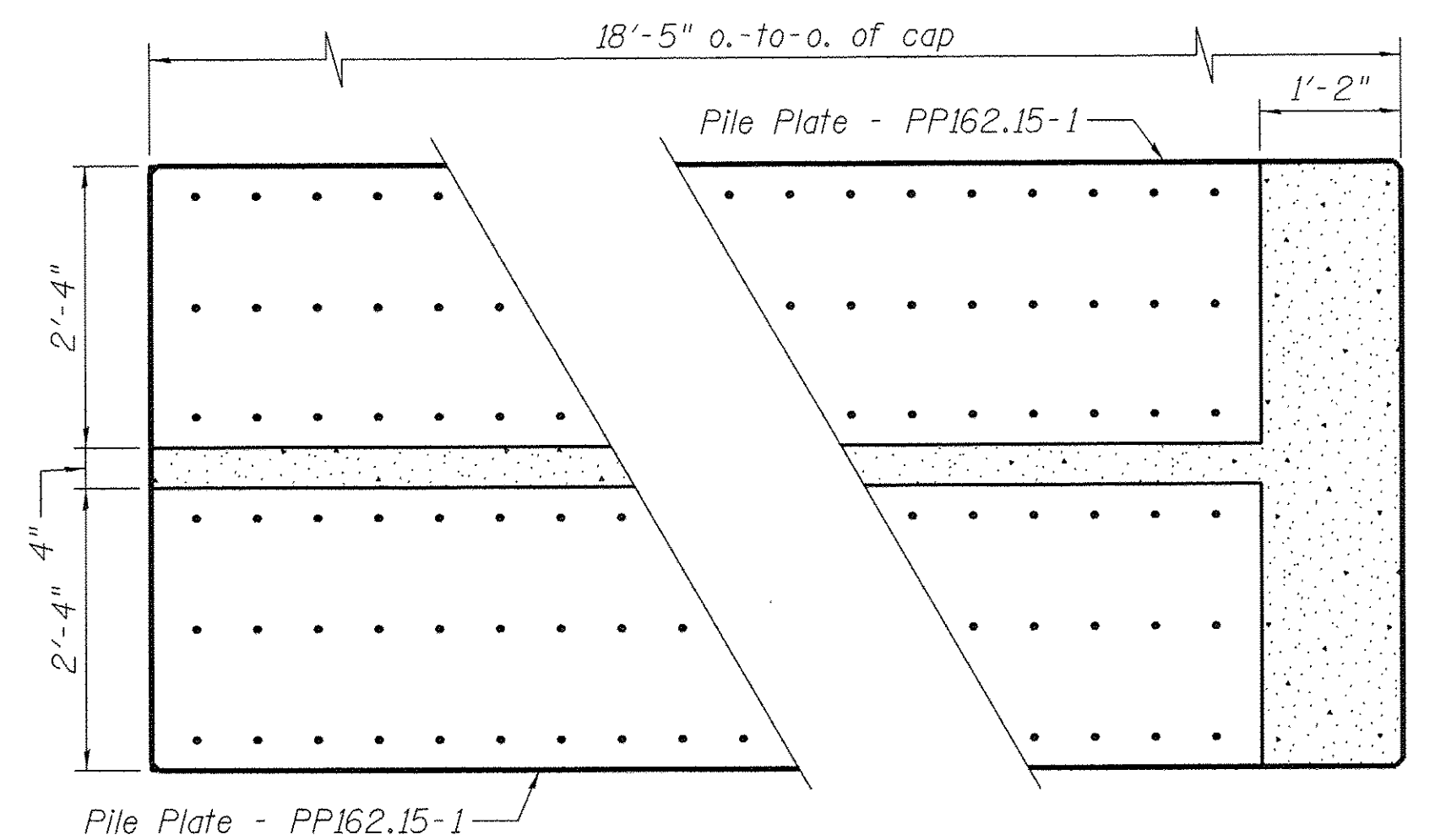
SHEET NO. 35 OF 52 SHEETS

F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 115
				CONTRACT NO. 89417

ILLINOIS FED. AID PROJECT



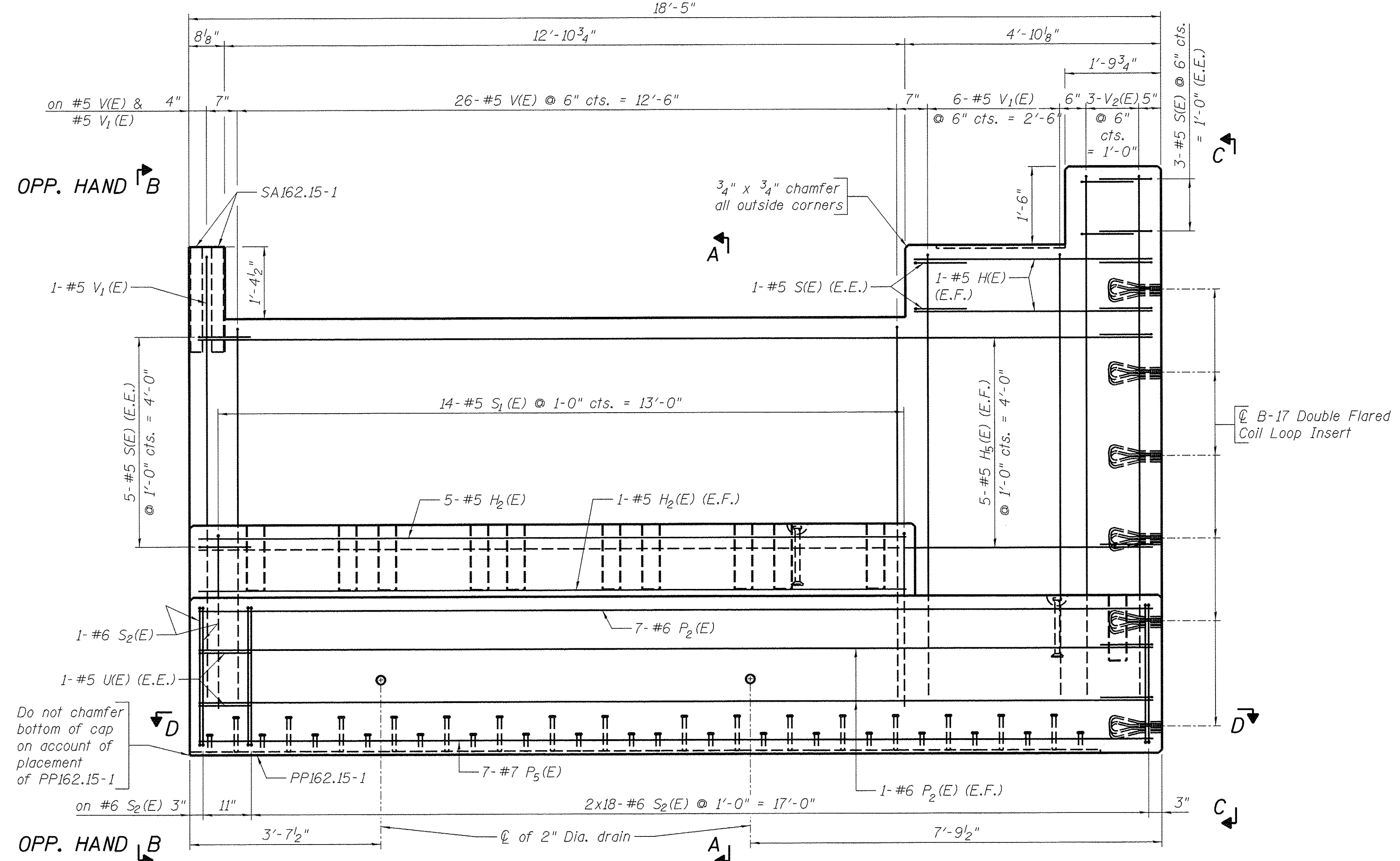
PLAN



SECTION D-D

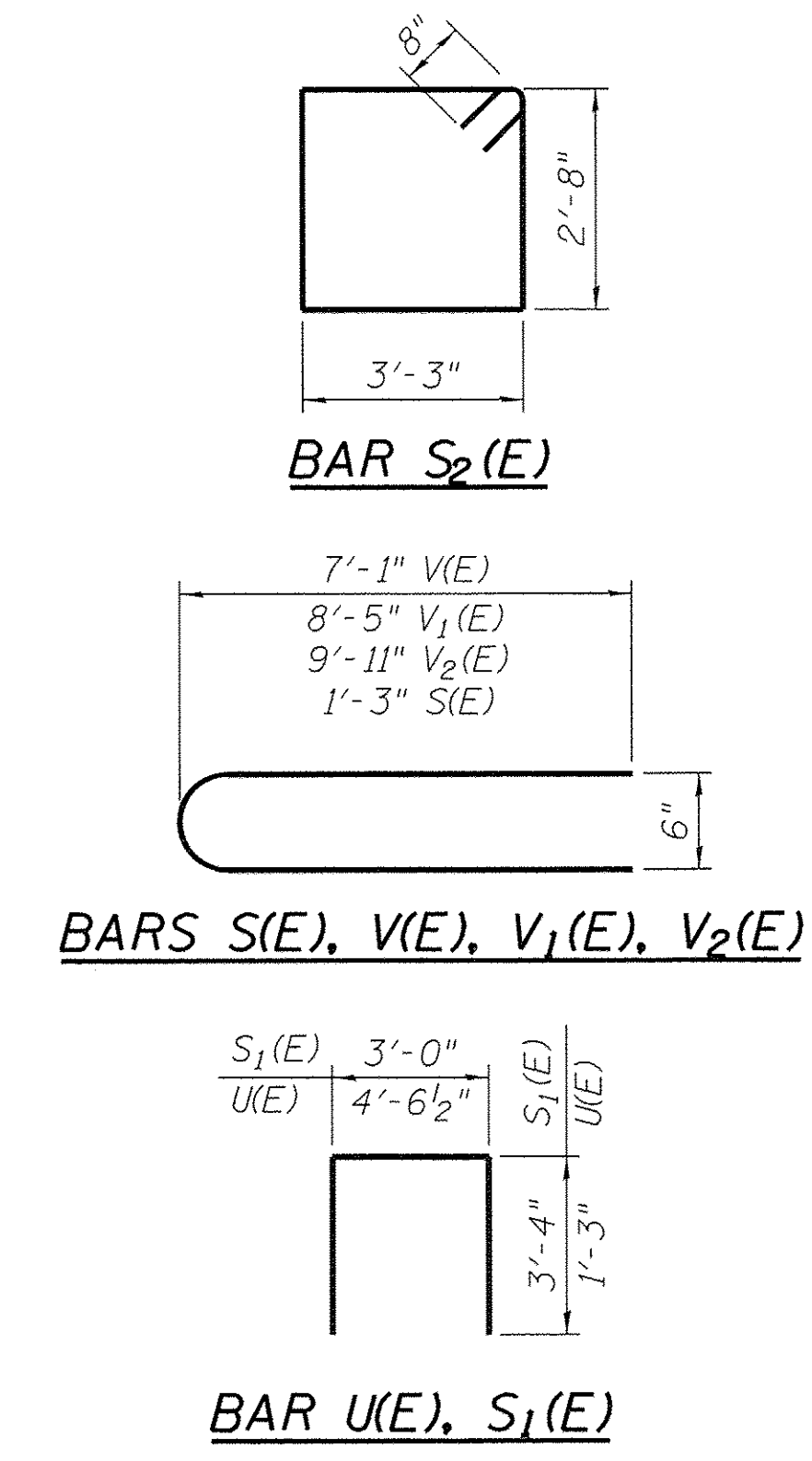
Reinforcement not show for clarity.

- Notes:**
1. See Sheet 42 of 52 for general notes and additional sections.
 2. Blockouts shall be 4" dia. x 1'-3" CMP sleeves with 0.023" (24 gage) minimum thickness embedded in concrete for anchor bolts. Adjust reinforcement as necessary to clear sleeve.
 3. Fabricator shall provide lifting devices.



PRECAST ABUTMENT CAP - PC162.15-1 (2 REQ'D.)

Wt. = 64,400 lbs., Vol. = 15.1 cu. yds., Reinf. Steel = 2,430 lbs.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
H(E)	4	#5	4'-6"	—
H2(E)	7	#5	13'-5"	—
H5(E)	10	#5	18'-1"	—
P2(E)	11	#6	18'-1"	—
P5(E)	7	#7	18'-1"	—
S(E)	20	#5	2'-9"	□
S1(E)	14	#5	9'-8"	□
S2(E)	38	#6	13'-2"	□
U(E)	4	#5	7'-0 1/2"	□
V(E)	26	#5	14'-5"	□
V1(E)	7	#5	17'-1"	□
V2(E)	3	#5	20'-1"	□
STRUCTURAL STEEL				
6	1 1/4" x 12" DAYTON SUPERIOR B-17 DOUBLE FLARED COIL LOOP INSERT 1 1/4" x 12" LONG, 13,500 LBS. SWL (SAFE WORKING LOAD), PLAIN			
2	PILE PLATE PP162.15-1 (SEE DETAIL, SH. 45)			
1	EMBEDDED COVER BEARING PLATE (SEE DETAIL SH. 20)			
4	EMBEDDED ANGLE SA162.15-1 (SEE SHEET SH. 45)			
6	1/4" DIA. X 17" SPIRAL BOLT			

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15



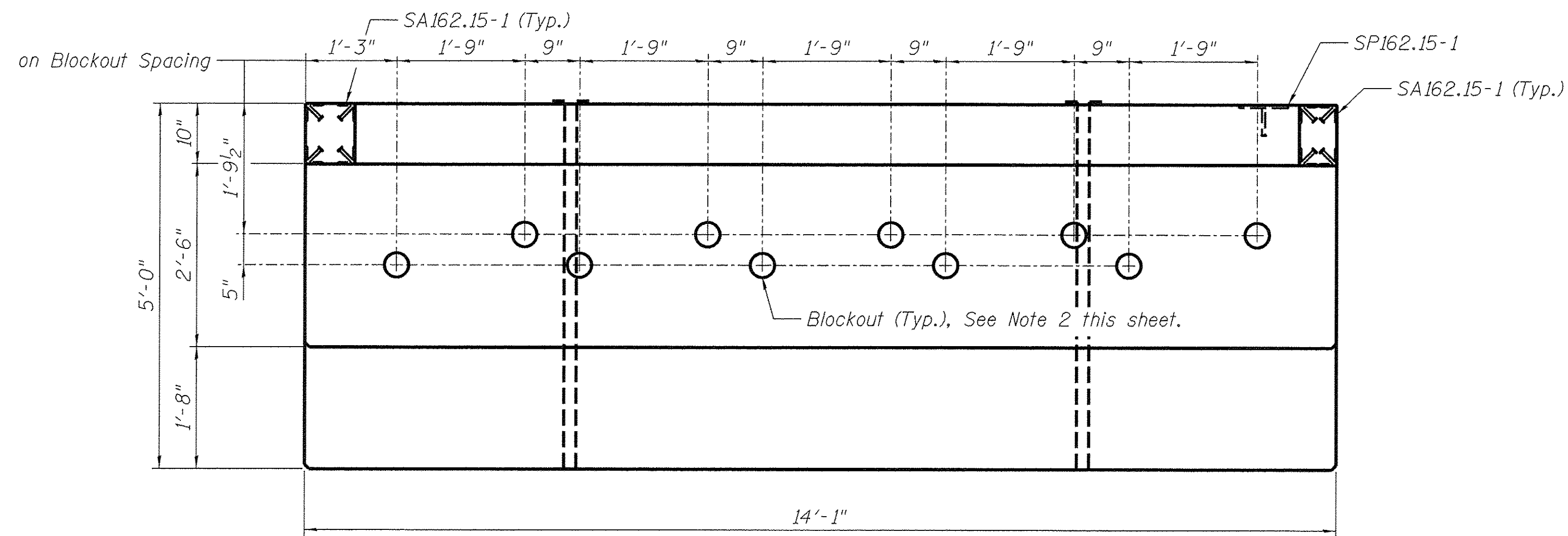
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PLOT DATE = 9/8/2015	DRAWN - GTJ	REVISD -
	CHECKED - MAF	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

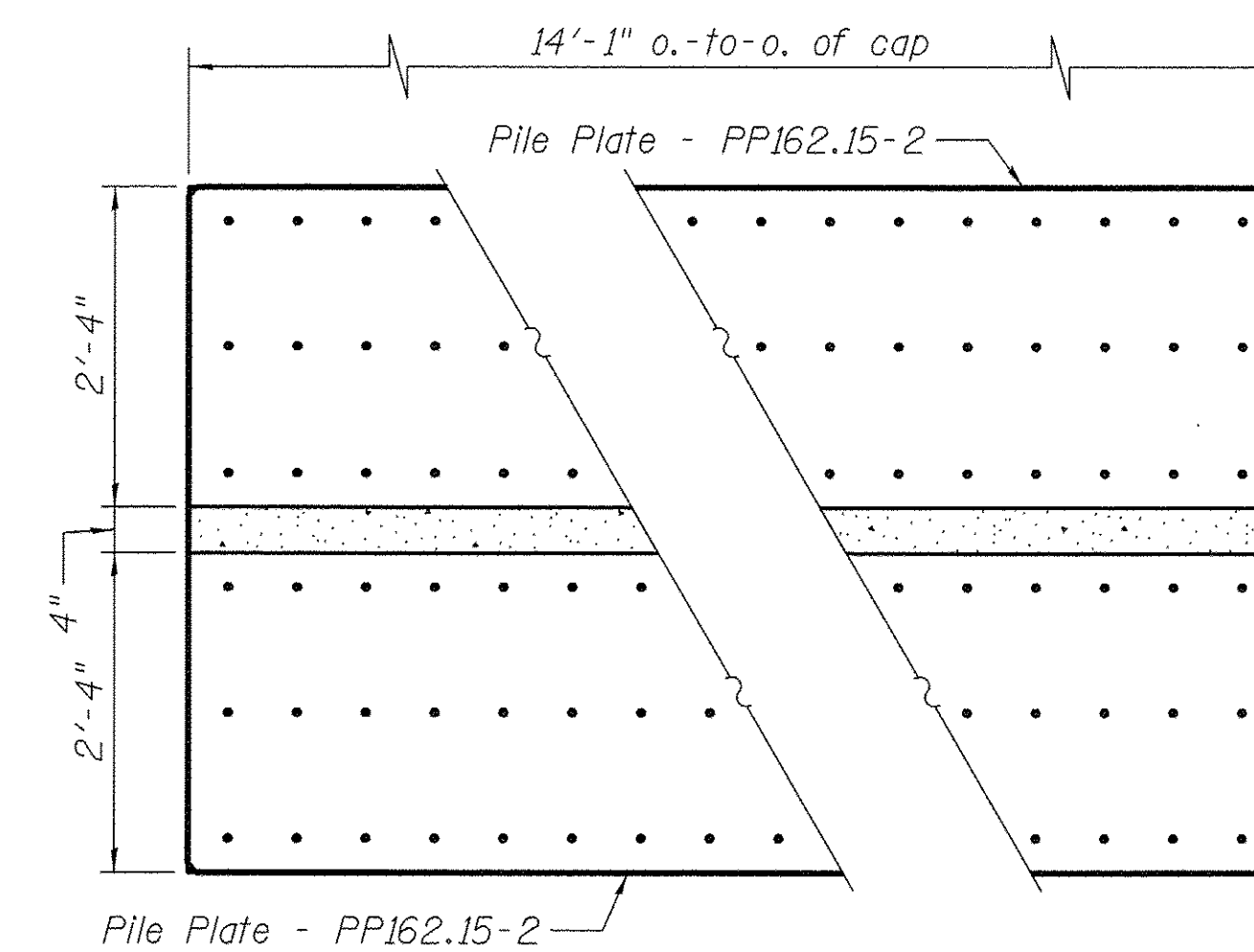
**PRECAST ABUTMENT CAP - PC162.15-1
STRUCTURE 048-9928**

SHEET NO. 36 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	116
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				



PLAN

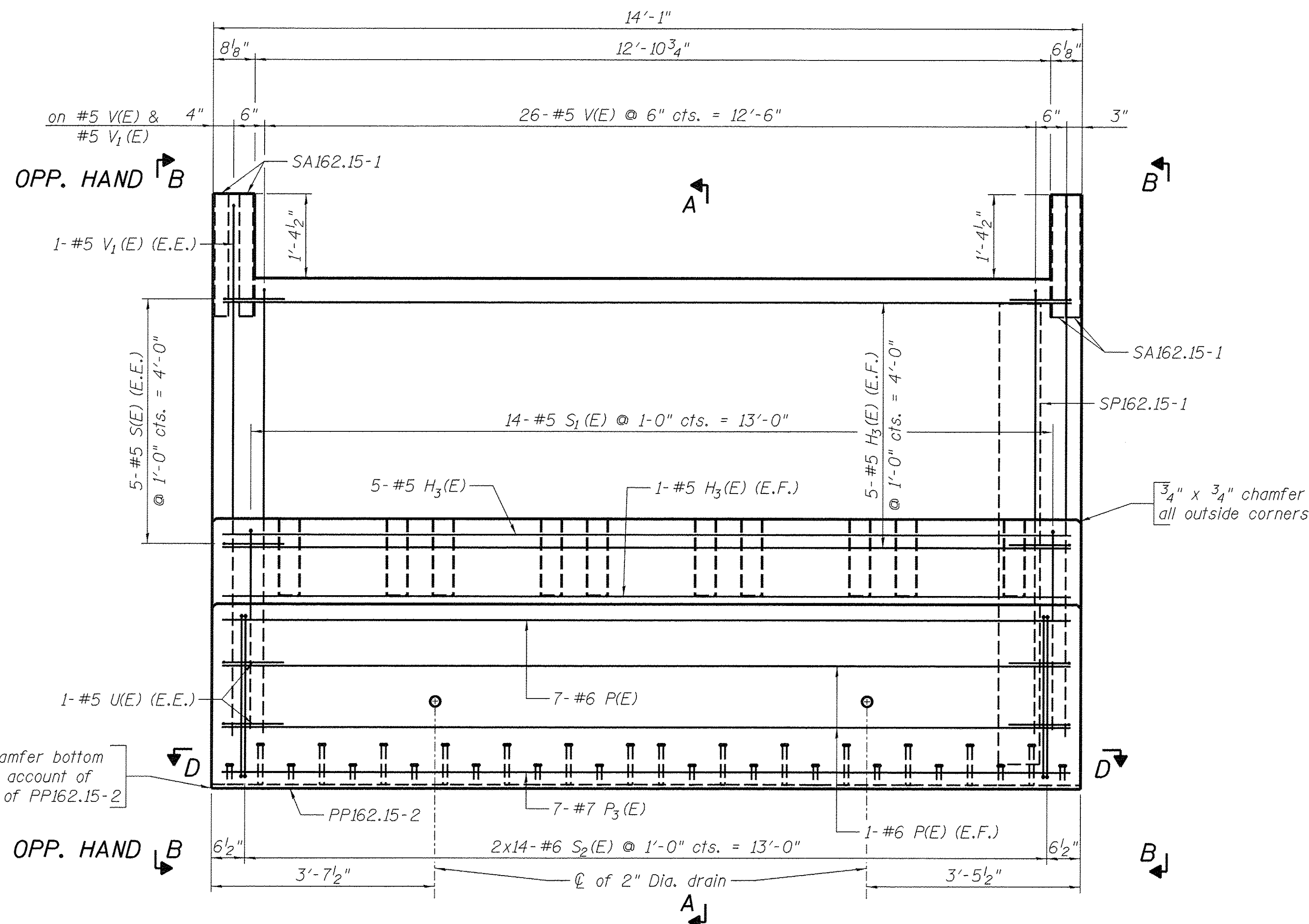


SECTION D-D

Reinforcement not show for clarity.

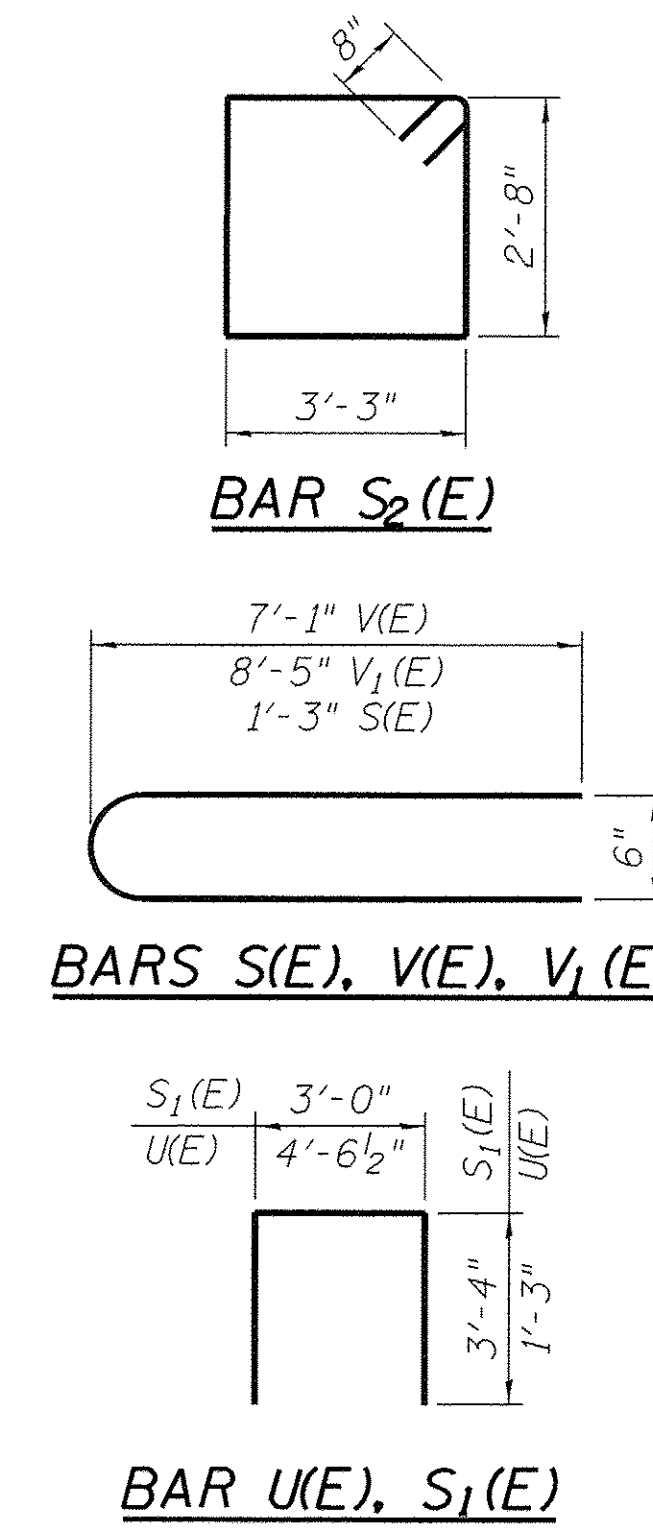
Notes:

1. See Sheet 42 of 52 for general notes and additional sections.
2. Blockouts shall be 4" dia. x 1'-3" CMP sleeves with 0.023" (24 gage) minimum thickness embedded in concrete for anchor bolts. Adjust reinforcement as necessary to clear sleeve.
3. Fabricator shall provide lifting devices.



PRECAST ABUTMENT CAP - PC162.15-2 (2 REQ'D.)

Wt. = 50,500 lbs., Vol. = 11.8 cu. yds., Reinf. Steel = 1,850 lbs.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
H ₃ (E)	17	#5	13'-9"	—
P(E)	11	#6	13'-9"	—
P ₃ (E)	7	#7	13'-9"	—
S(E)	10	#5	2'-9"	□
S ₁ (E)	14	#5	9'-8"	□
S ₂ (E)	28	#6	13'-2"	□
U(E)	4	#5	7'-0 1/2"	□
V(E)	26	#5	14'-5"	—
V ₁ (E)	2	#5	17'-1"	—
STRUCTURAL STEEL				
1	PLATE SPI62.15-1 (SEE DETAIL, SH. 45)			
8	EMBEDDED ANGLE SA162.15-1 (SEE SHEET SH. 45)			
2	PILE PLATE PP162.15-2 (SEE DETAIL, SH. 45)			

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

PROJECT: \\sp1-svr306.hanson.com\hanson_projects\Documents\09Jobs\09L\0105\CAD-PhaseII\Struct\Sheet\048\0105-PreCastAbutCap_PC162.15-2



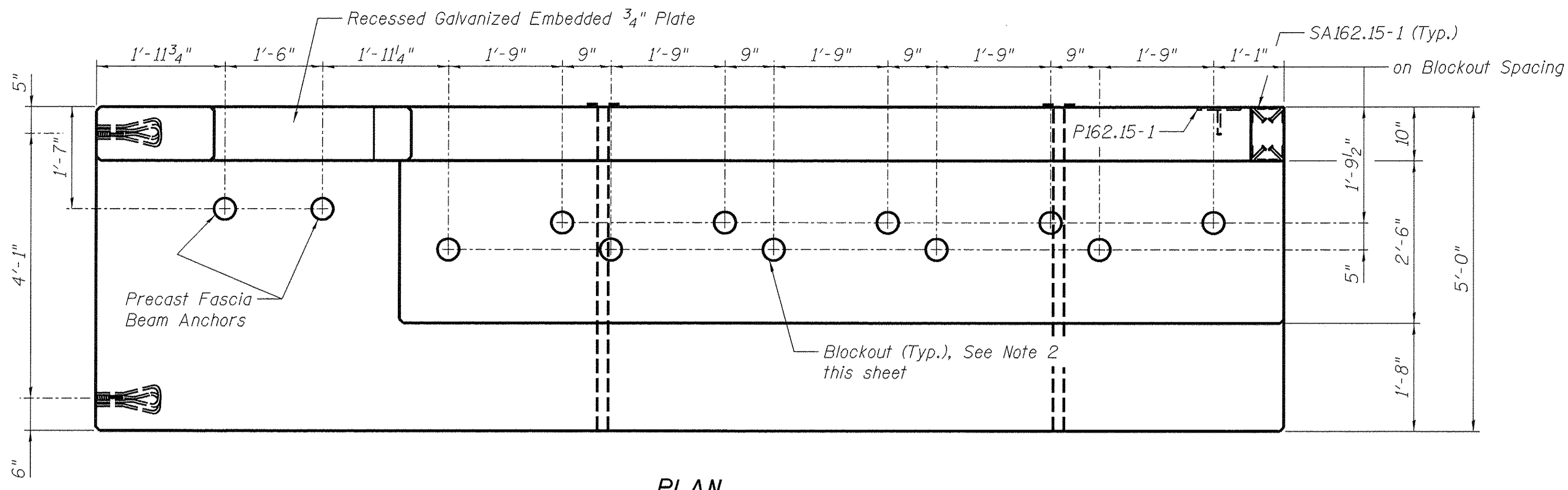
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CHECKED	- MAF	CHECKED	- MAF	REVISED	-
PLOT SCALE	= 1/4" = 1'-0"	DRAWN	- GTJ	REVISED	-
PLOT DATE	= 9/8/2015	CHECKED	- MAF	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

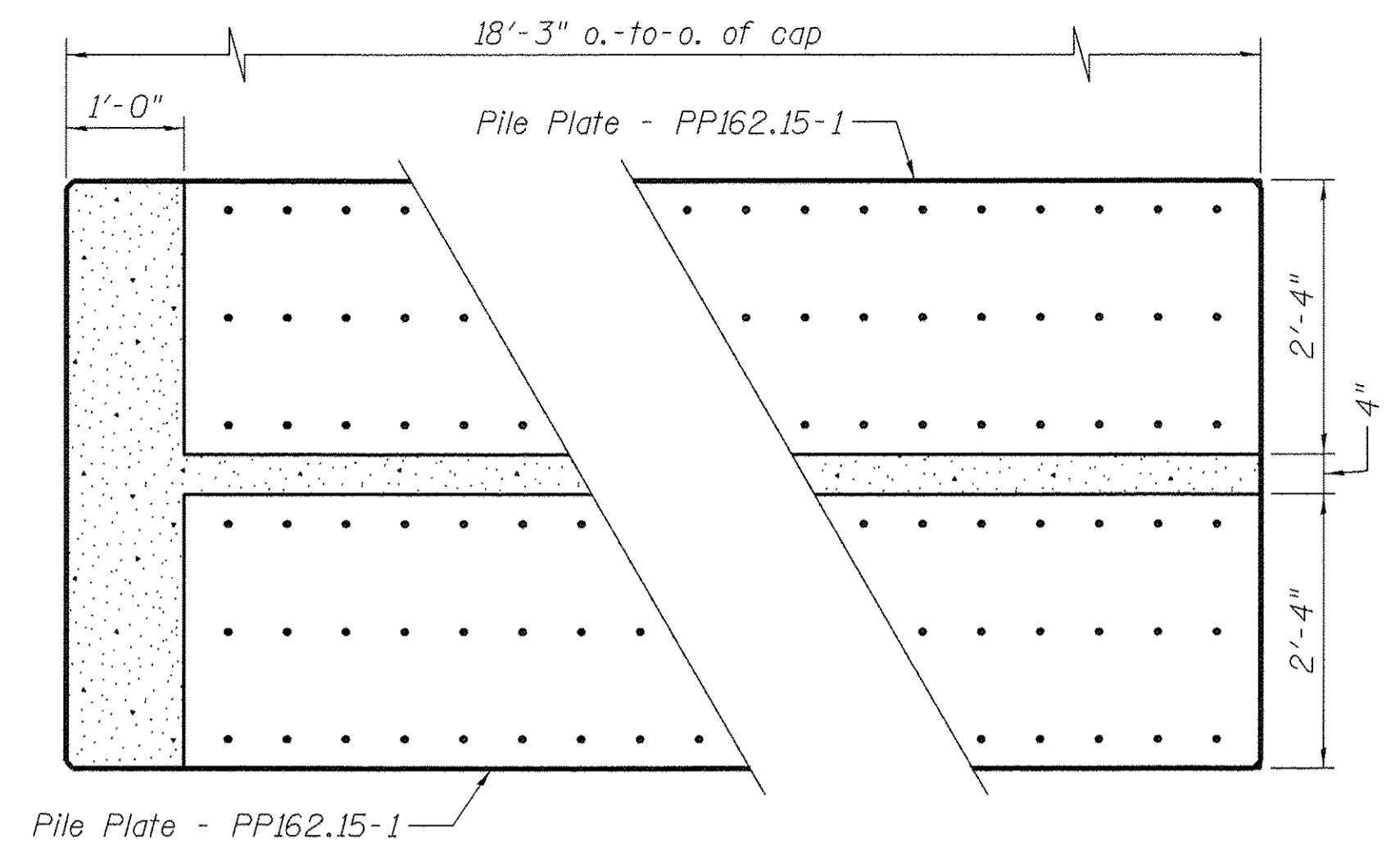
**PRECAST ABUTMENT CAP - PC162.15-2
STRUCTURE 048-9928**

SHEET NO. 37 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	117
CONTRACT NO.				89417
ILLINOIS FED. AID PROJECT				



PLAN

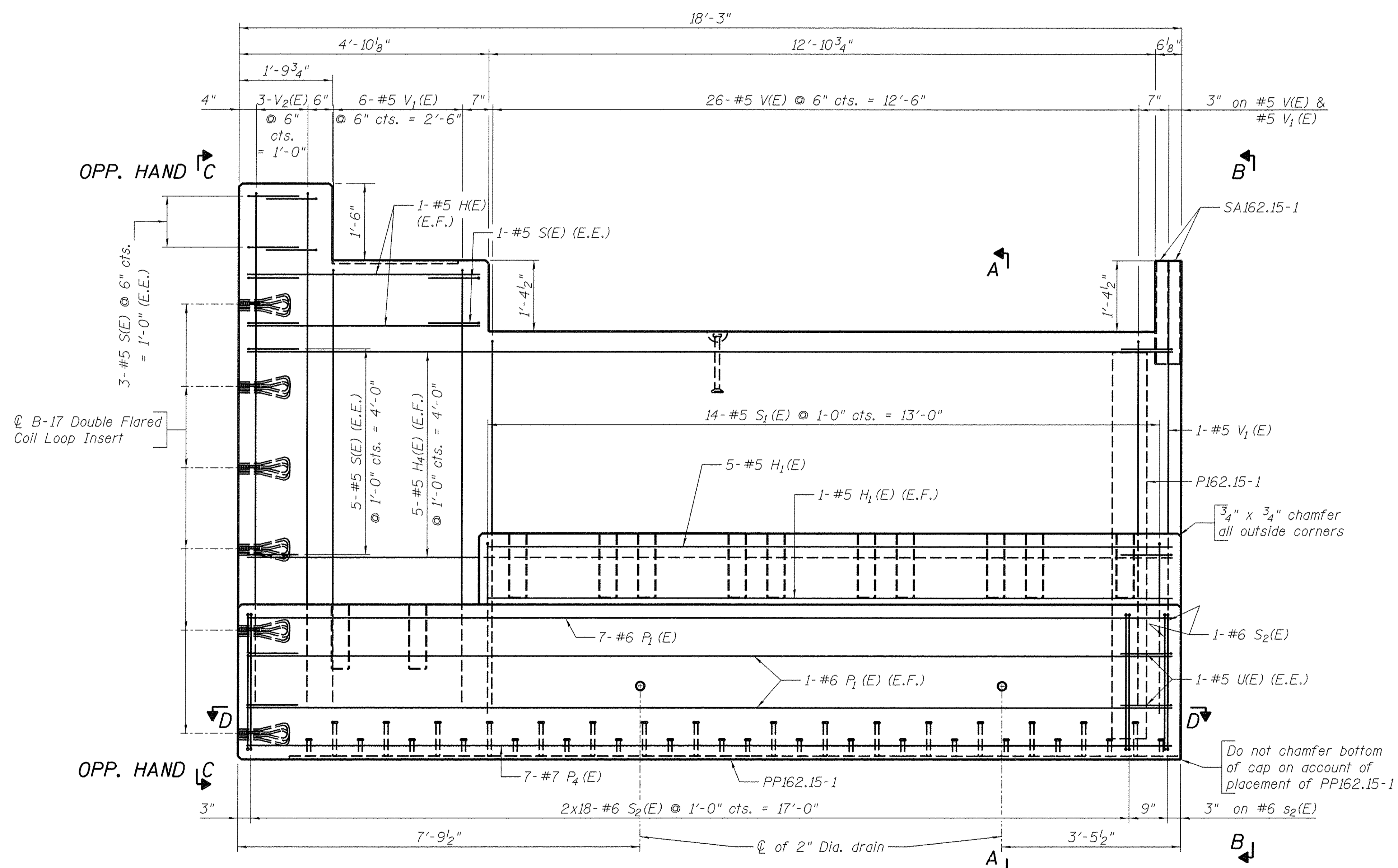


SECTION D-D

Reinforcement not show for clarity.

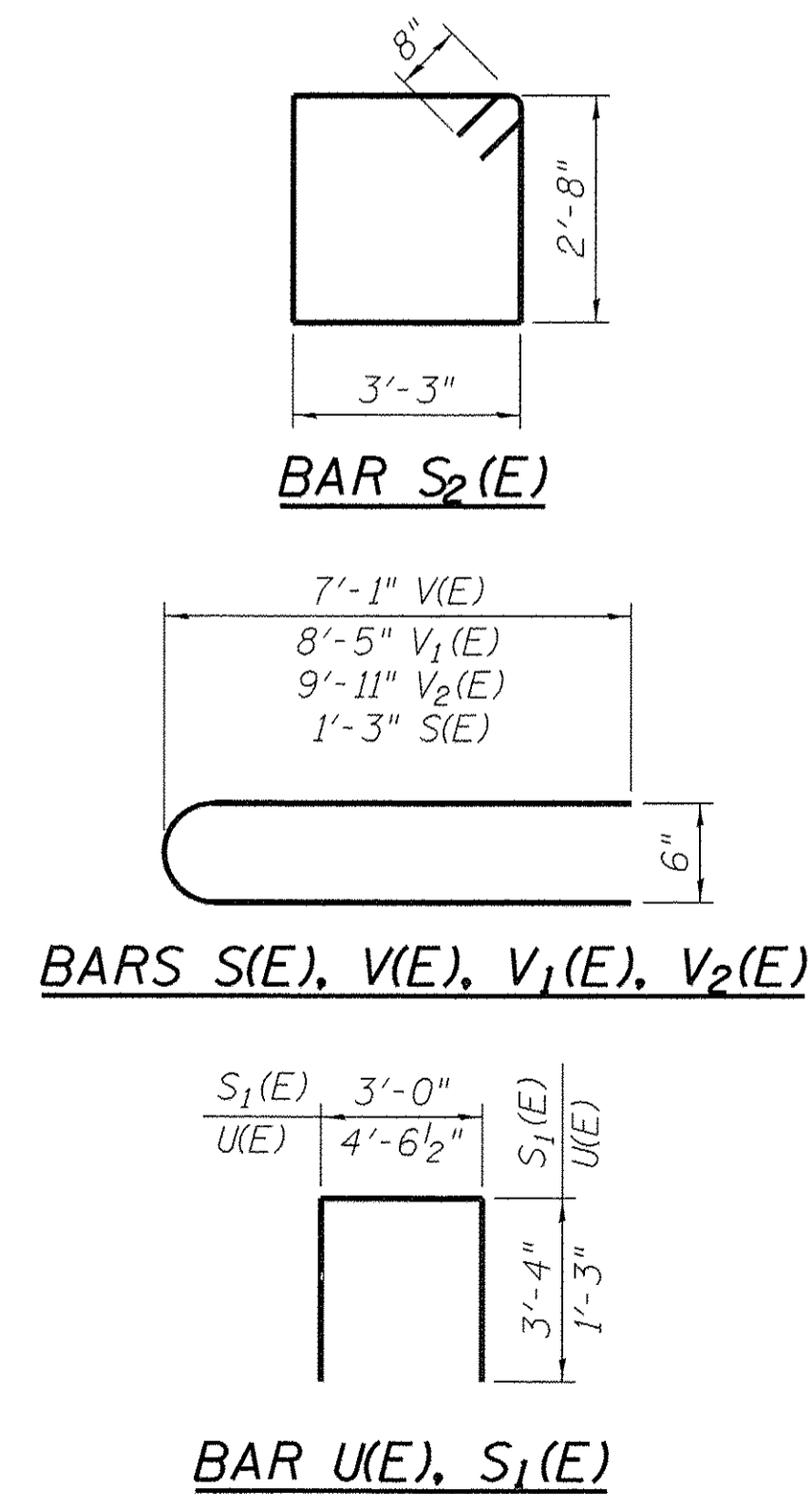
Notes:

- See Sheet 42 of 53 for general notes and additional sections.
- Blockouts shall be 4" dia. x 1'-3" CMP sleeves with 0.023" (24 gage) minimum thickness embedded in concrete for anchor bolts. Adjust reinforcement as necessary to clear sleeve.
- Fabricator shall provide lifting devices.



PRECAST ABUTMENT CAP - PC162.15-3 (2 REQ'D.)

Wt. = 64,000 lbs., Vol. = 15.0 cu. yds., Reinf. Steel = 2,420 lbs.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
H(E)	4	#5	4'-6"	—
H $\frac{1}{2}$ (E)	7	#5	13'-3"	—
H $\frac{1}{4}$ (E)	10	#5	17'-11"	—
P $\frac{1}{2}$ (E)	11	#6	17'-11"	—
P $\frac{1}{4}$ (E)	7	#7	17'-11"	—
S(E)	20	#5	2'-9"	—
S $\frac{1}{2}$ (E)	14	#5	9'-8"	—
S $\frac{1}{2}$ (E)	38	#6	13'-2"	—
U(E)	4	#5	7'-0 $\frac{1}{2}$ "	—
V(E)	26	#5	14'-5"	—
V $\frac{1}{2}$ (E)	7	#5	17'-1"	—
V $\frac{1}{2}$ (E)	3	#5	20'-1"	—
STRUCTURAL STEEL				
6	1 $\frac{1}{4}$ " x 12" DAYTON SUPERIOR B-17 DOUBLE FLARED COIL LOOP INSERT 1 $\frac{1}{4}$ " x 12" LONG, 13,500 LBS. SWL (SAFE WORKING LOAD), PLAIN			
1	PLATE SPI62.15-1 (SEE DETAIL, SH. 45)			
2	PILE PLATE PPI62.15-1 (SEE DETAIL, SH. 45)			
1	EMBEDDED ANCHOR PLATE (SEE DETAIL SH. 20)			
4	EMBEDDED ANGLE SA162.15-1 (SEE SHEET SH. 45)			
6	1 $\frac{1}{4}$ " Dia. x 17" Spiral Bolt			

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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USER NAME	= andr00846
PLOT SCALE	= 1:4,0000 1' = 1/4"
PLOT DATE	= 9/8/2015

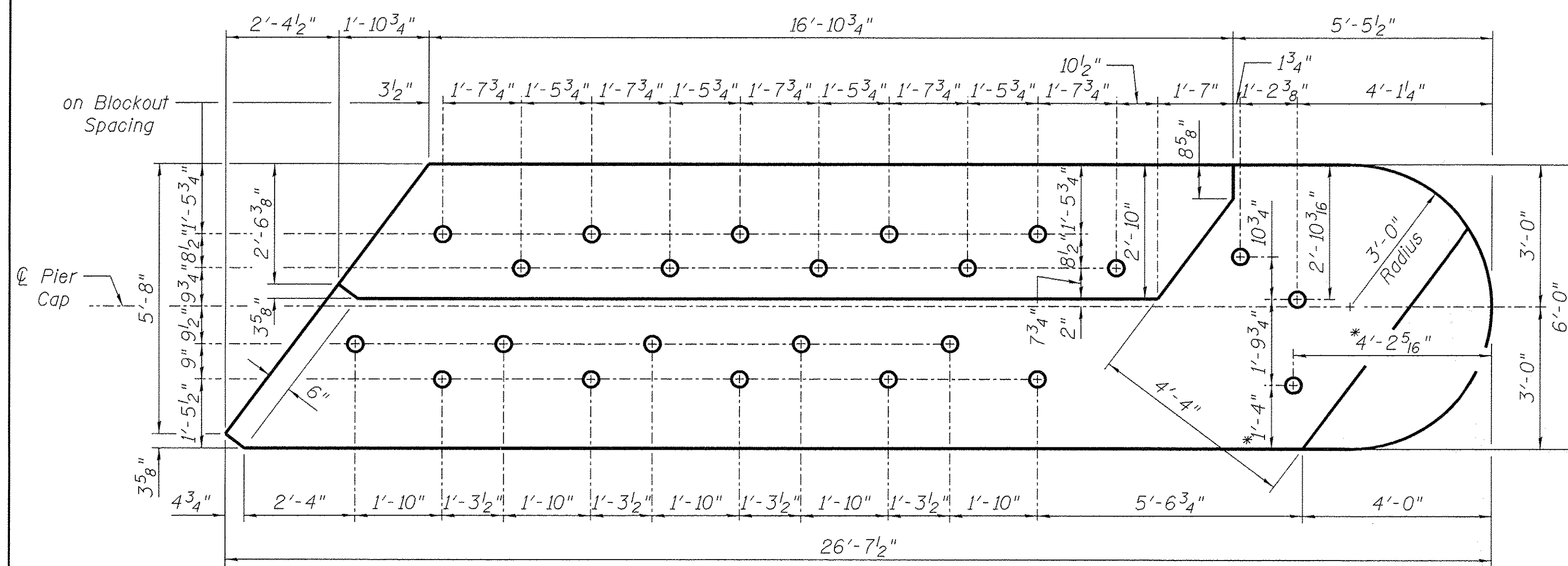
DESIGNED	- JEC	REVISIONS	-
CHECKED	- MAF	REVISIONS	-
DRAWN	- GTJ	REVISIONS	-
CHECKED	- MAF	REVISIONS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST ABUTMENT CAP - PC162.15-3
STRUCTURE 048-9928

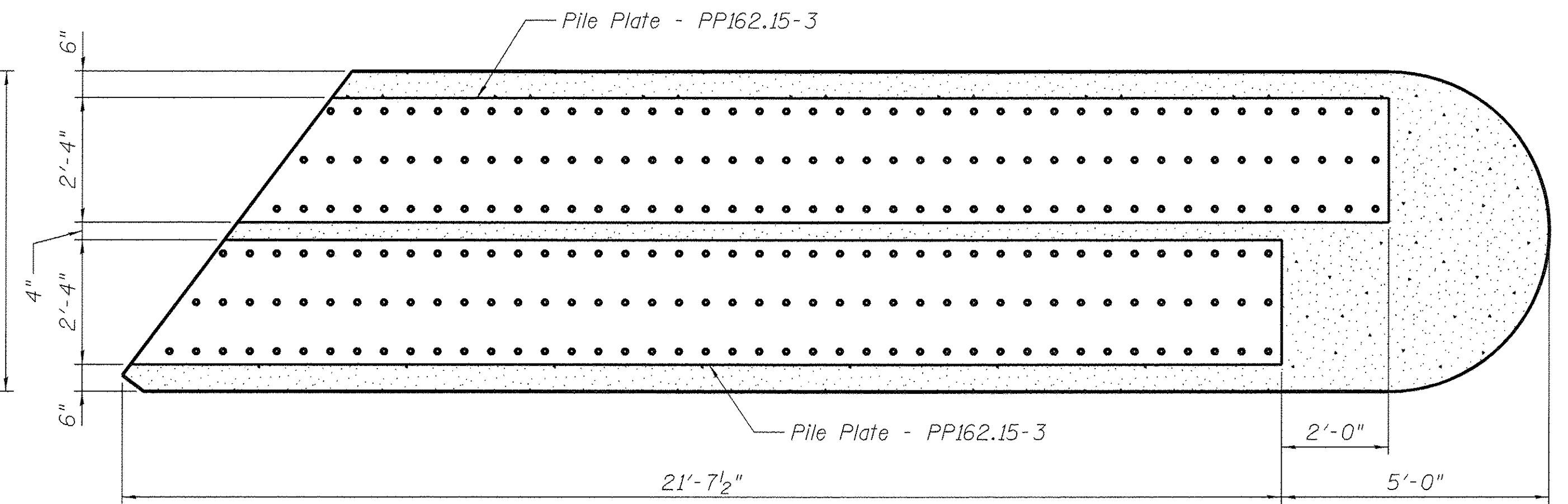
SHEET NO. 38 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	118
CONTRACT NO. 89417			ILLINOIS FED. AID PROJECT	



PLAN - BLOCKOUT LOCATIONS

* Side Retainer Anchor Location
See Drawing 20 of 52

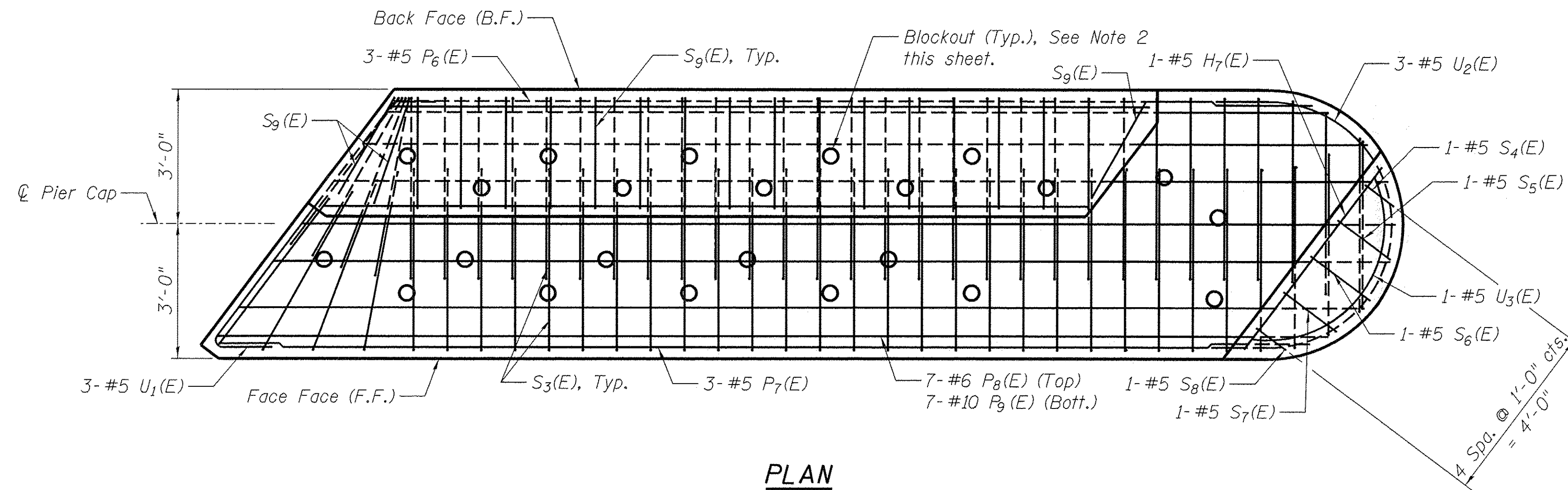


SECTION F-F

Reinforcement not show for clarity.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
H ₆ (E)	7	#5	17'-4"	—
H ₇ (E)	1	#5	5'-2"	—
P ₆ (E)	3	#5	19'-3"	—
P ₇ (E)	3	#5	23'-2"	—
P ₈ (E)	7	#6	24'-10"	—
P ₉ (E)	7	#10	24'-10"	—
S ₃ (E)	66	#6	16'-2"	□
S ₄ (E)	1	#5	3'-5"	U
S ₅ (E)	1	#5	4'-0"	U
S ₆ (E)	1	#5	4'-2"	U
S ₇ (E)	1	#5	3'-11"	U
S ₈ (E)	1	#5	3'-3"	U
S ₉ (E)	19	#5	9'-2"	U
MISCELLANEOUS ITEMS				
2				PILE PLATE PP162.15-3 (SEE DETAIL, SH. 45)

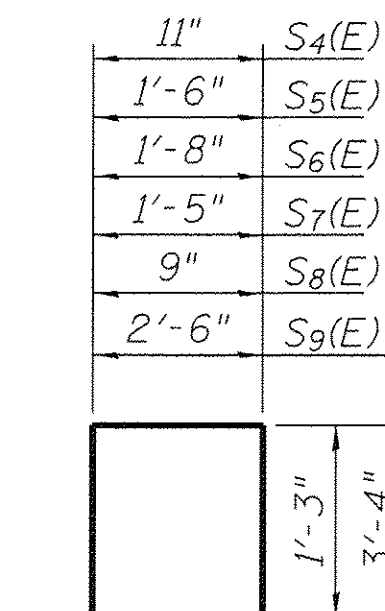


PLAN

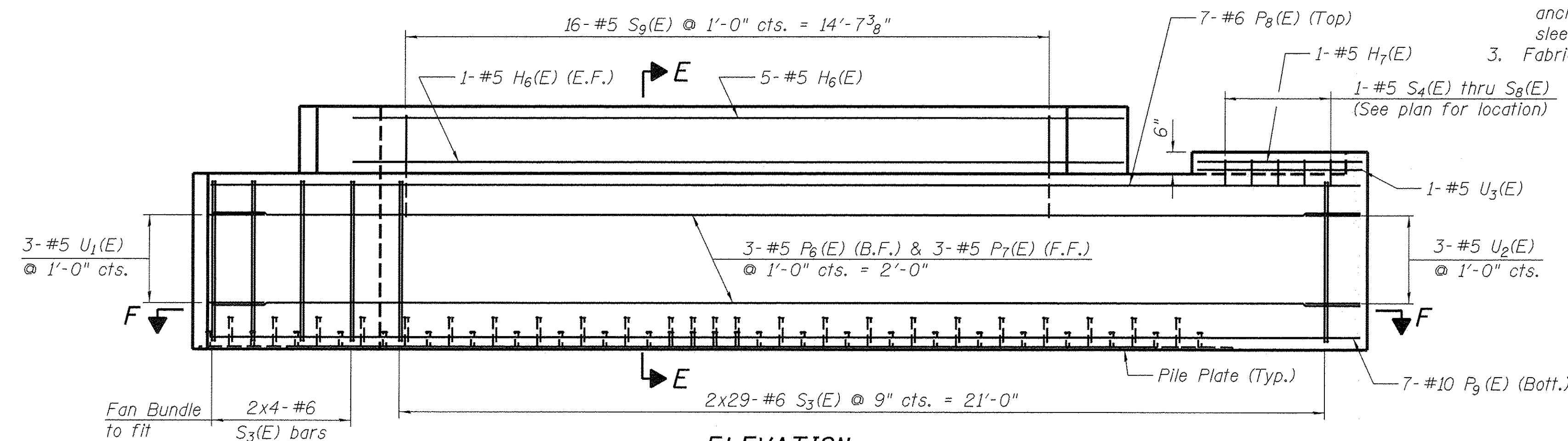
Notes:

- See Sheet 42 of 52 for general notes and Section E-E.
- Blockouts shall be 4" dia. x 1'-3" CMP sleeves with 0.023" (24 gage) minimum thickness embedded in concrete for anchor bolts. Adjust reinforcement as necessary to clear sleeve.
- Fabricator shall provide lifting devices.

BAR S₃(E)



BAR S₄(E), S₅(E), S₆(E), S₇(E), S₈(E), S₉(E)

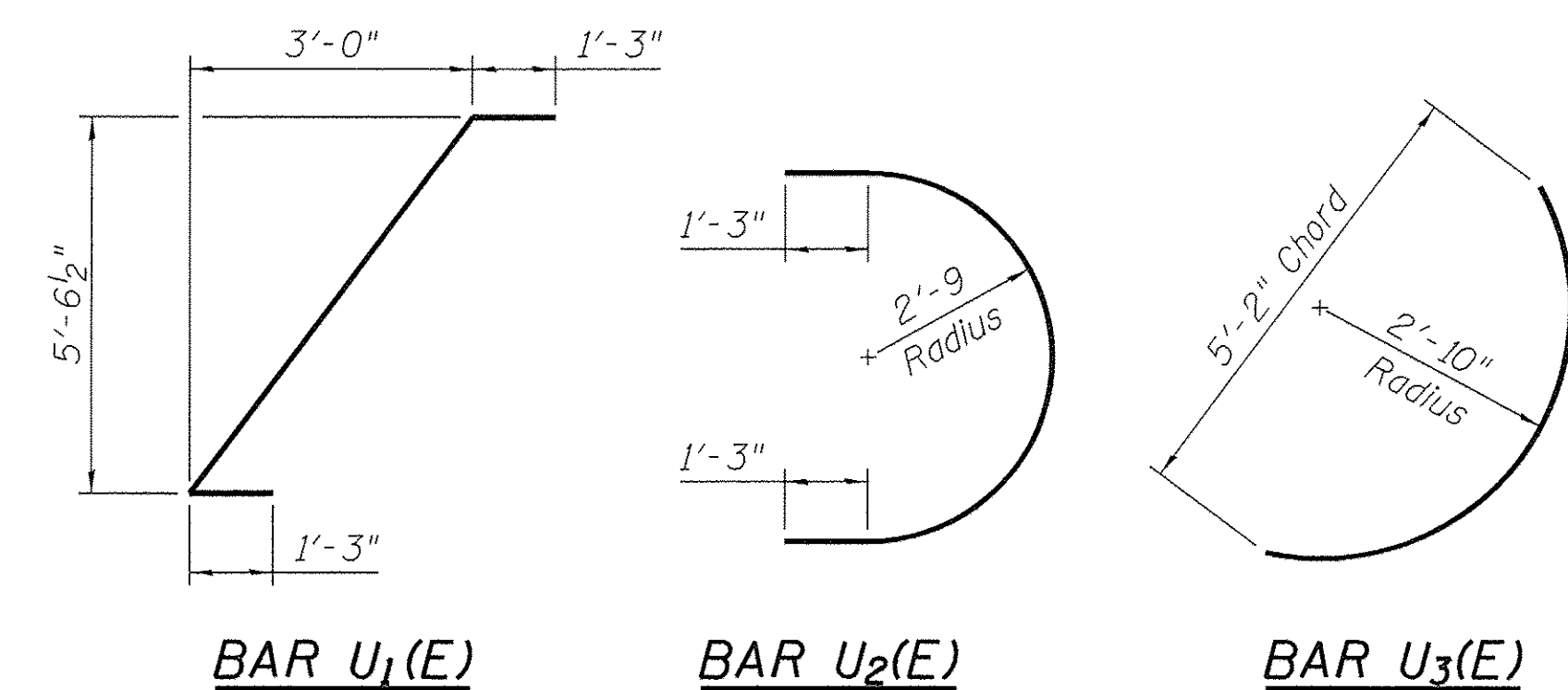


ELEVATION

(Blockouts not shown for clarity)

PRECAST PIER CAP - PC162.15-4 (2 REQ'D.)

Wt. = 99,800 lbs., Vol. = 23.8 cu. yds., Reinf. Steel = 3,150 lbs.



BAR U₁(E)

BAR U₂(E)

BAR U₃(E)

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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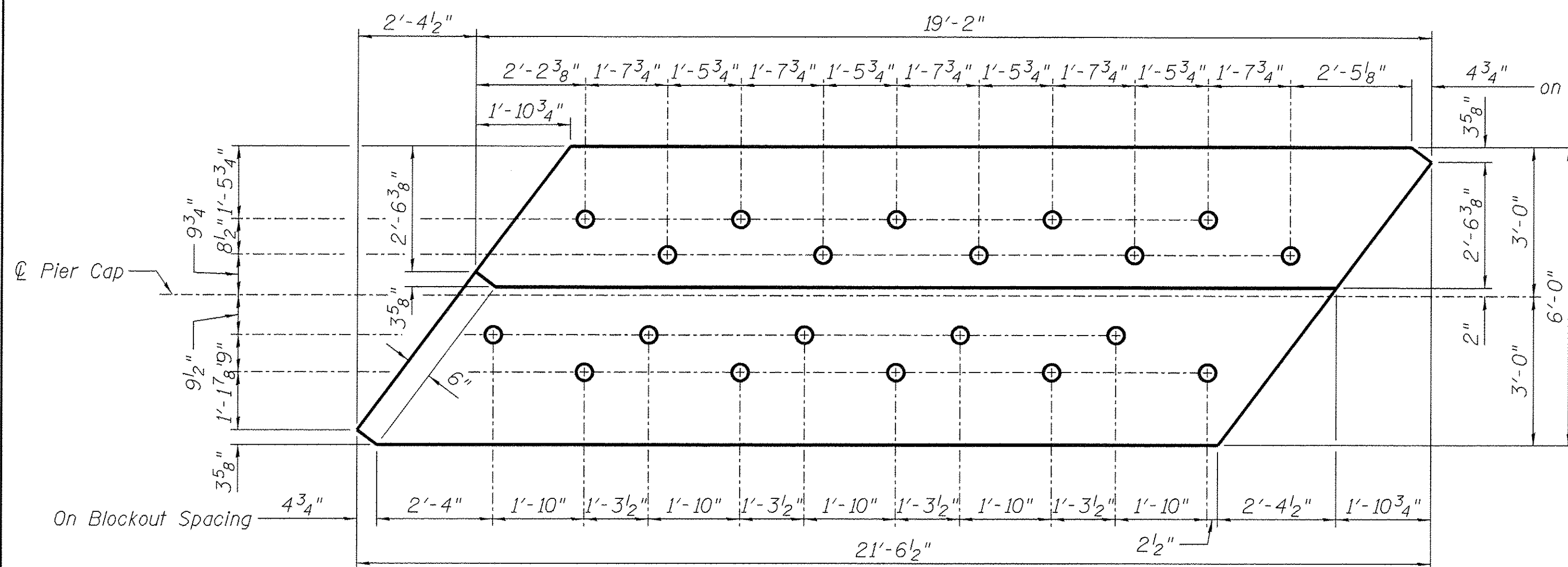
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PLOT SCALE = 2:0.0000 '1' / in.	CHECKED - MAF	REVISED -
PLOT DATE = 9/8/2015	DRAWN - GTJ	REVISED -
	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

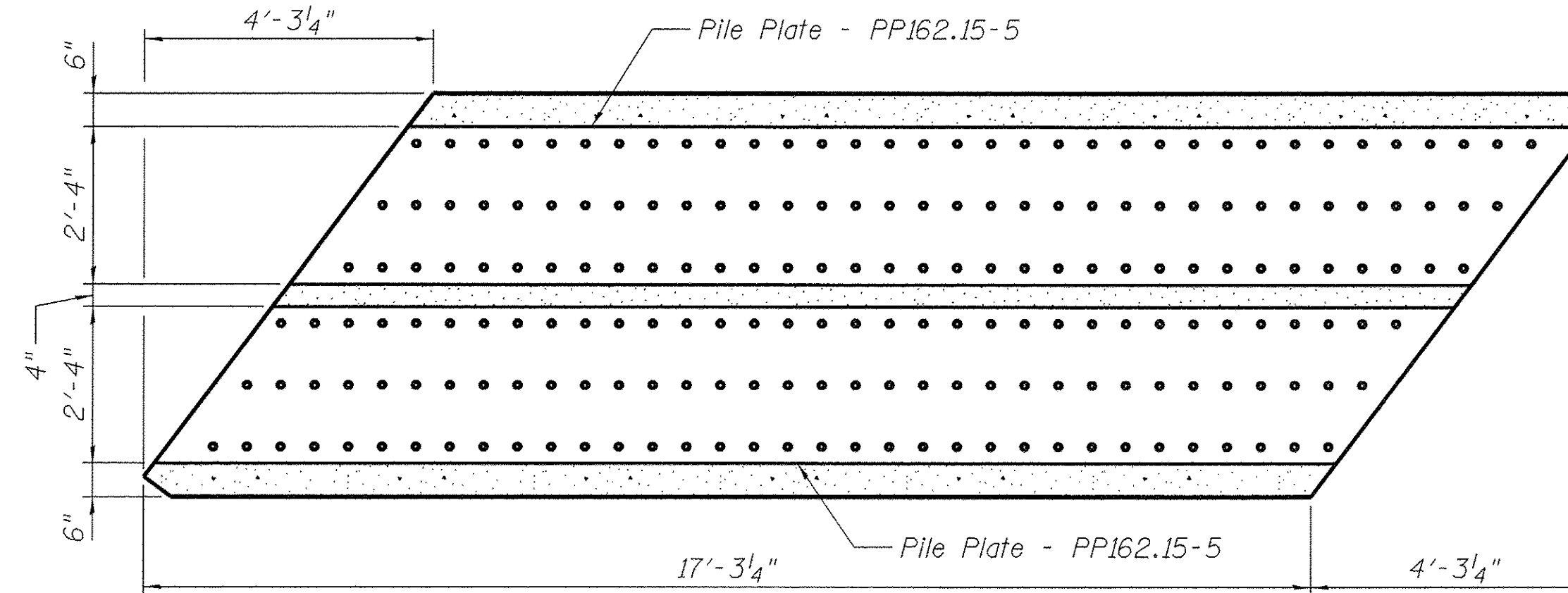
**PRECAST PIER CAP - PC162.15-4
STRUCTURE 048-9928**

SHEET NO. 39 OF 52 SHEETS

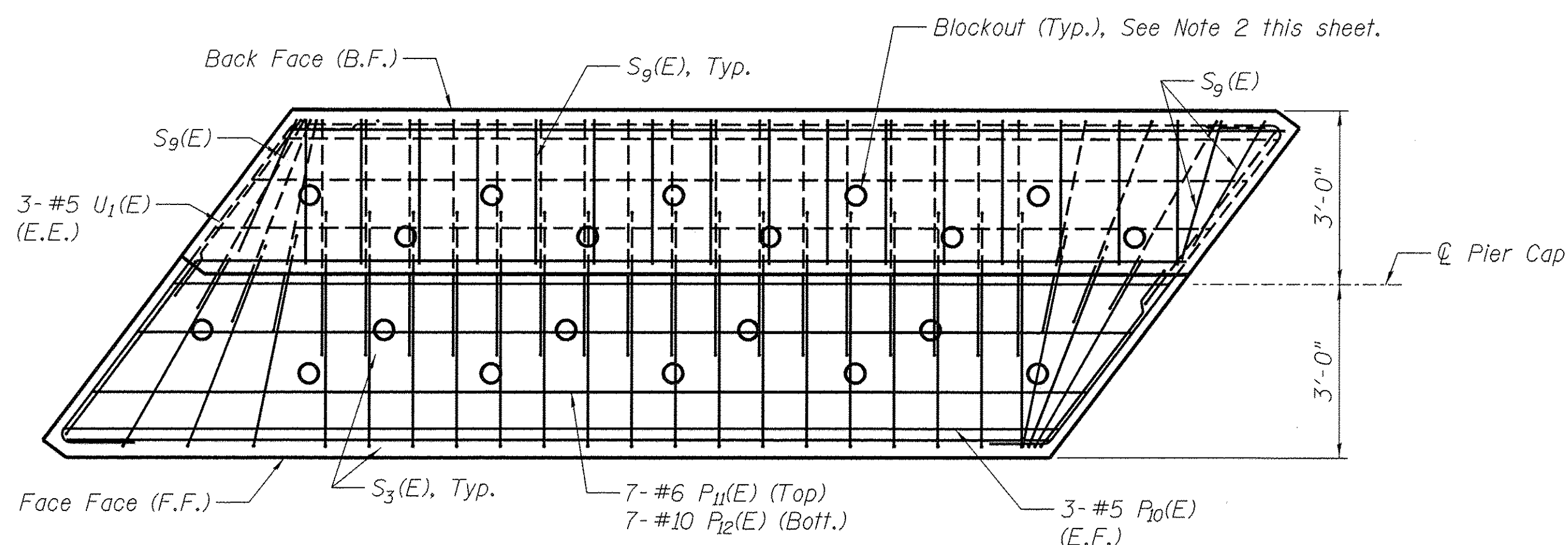
F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 119
			CONTRACT NO. 89417	
ILLINOIS FED. AID PROJECT				



PLAN - BLOCKOUT LOCATIONS



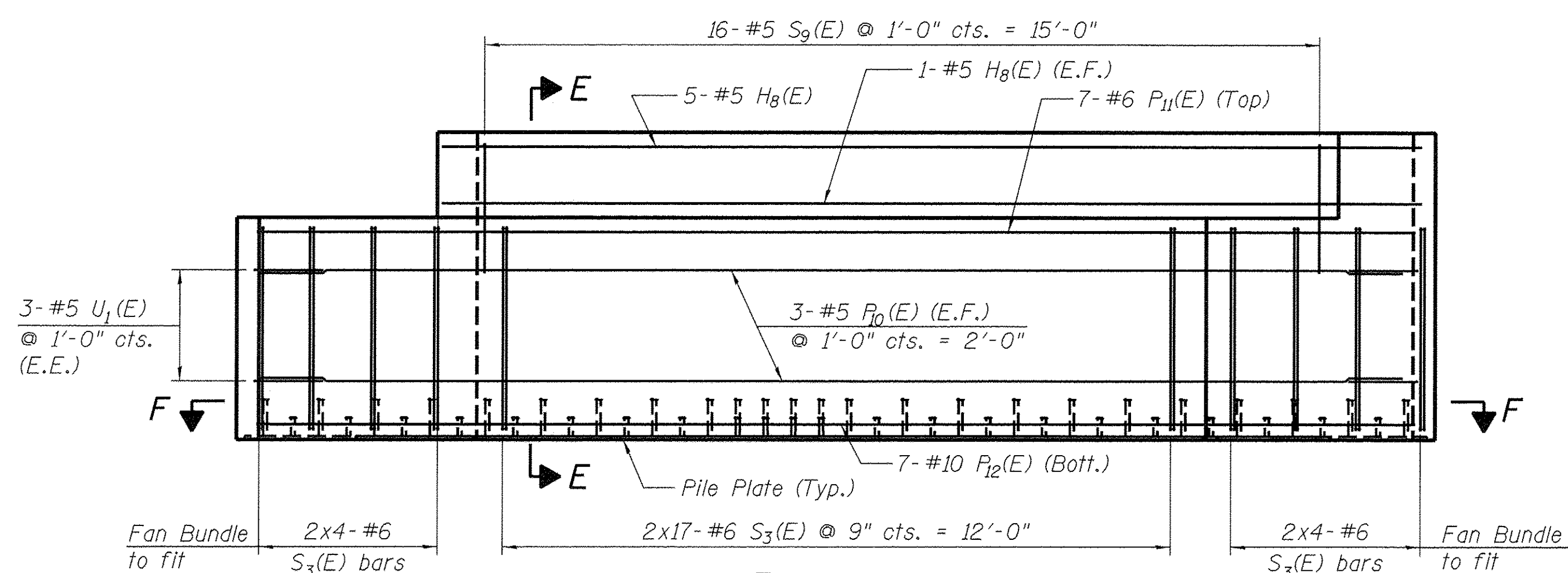
SECTION F-F
Reinforcement not show for clarity.



PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
H _B (E)	7	#5	16'-7"	—
P ₁₀ (E)	6	#5	17'-3"	—
P ₁₁ (E)	7	#6	17'-3"	—
P ₁₂ (E)	7	#10	17'-3"	—
S ₃ (E)	50	#6	16'-2"	⊠
S ₉ (E)	19	#5	9'-2"	⊠
U ₁ (E)	6	#5	8'-10"	⊂
MISCELLANEOUS ITEMS				
2	PILE PLATE PP162.15-5 (SEE DETAIL, SH. 45)			

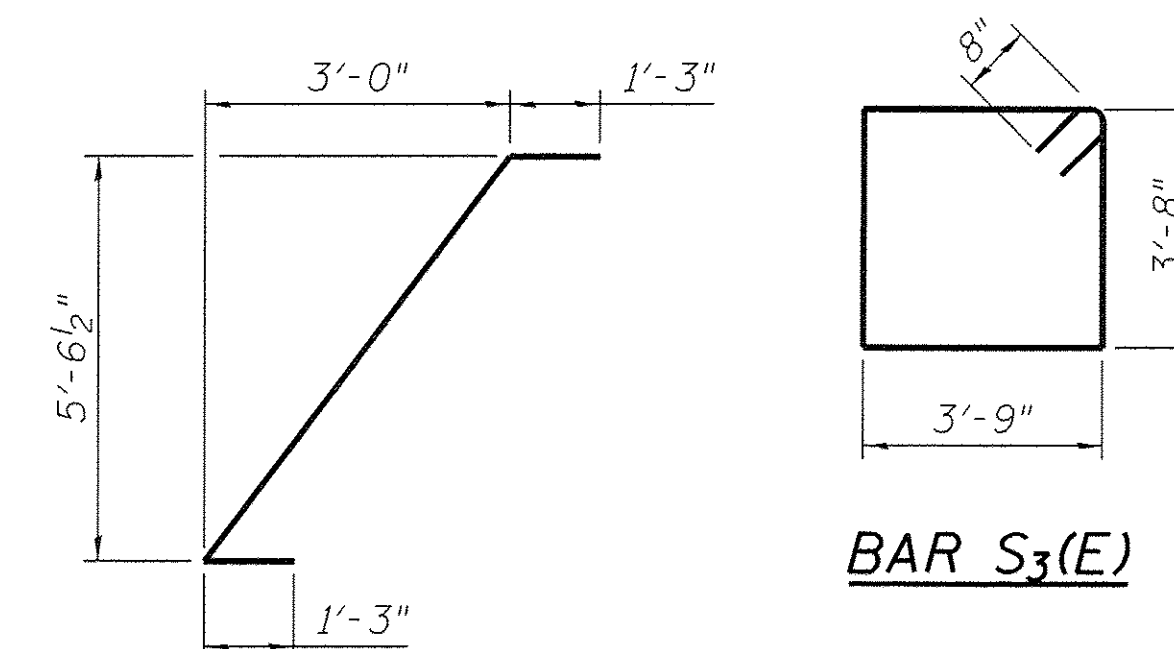


ELEVATION

(Blockouts not shown for clarity)

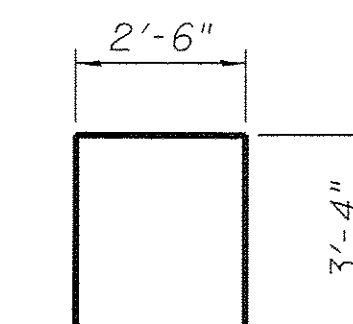
PRECAST PIER CAP - PC162.15-5 (2 REQ'D.)

Wt. = 75,500 lbs., Vol. = 18.0 cu. yds., Reinf. Steel = 2,390 lbs.



BAR S₃(E)

BAR U₁(E)



BAR S₉(E)

Notes:

- See Sheet 42 of 53 for general notes and Section E-E.
- Blockouts shall be 4" dia. x 1'-3" CMP sleeves with 0.023" (24 gage) minimum thickness embedded in concrete for anchor bolts. Adjust reinforcement as necessary to clear sleeve.
- Fabricator shall provide lifting devices.

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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USER NAME	= ande-00846
PLOT SCALE	= 2:0.0000 ' / in.
PLOT DATE	= 9/8/2015

DESIGNED	- JEC
CHECKED	- MAF
DRAWN	- GTJ
CHECKED	- MAF

REVISED	-
REVISED	-
REVISED	-
REVISED	-

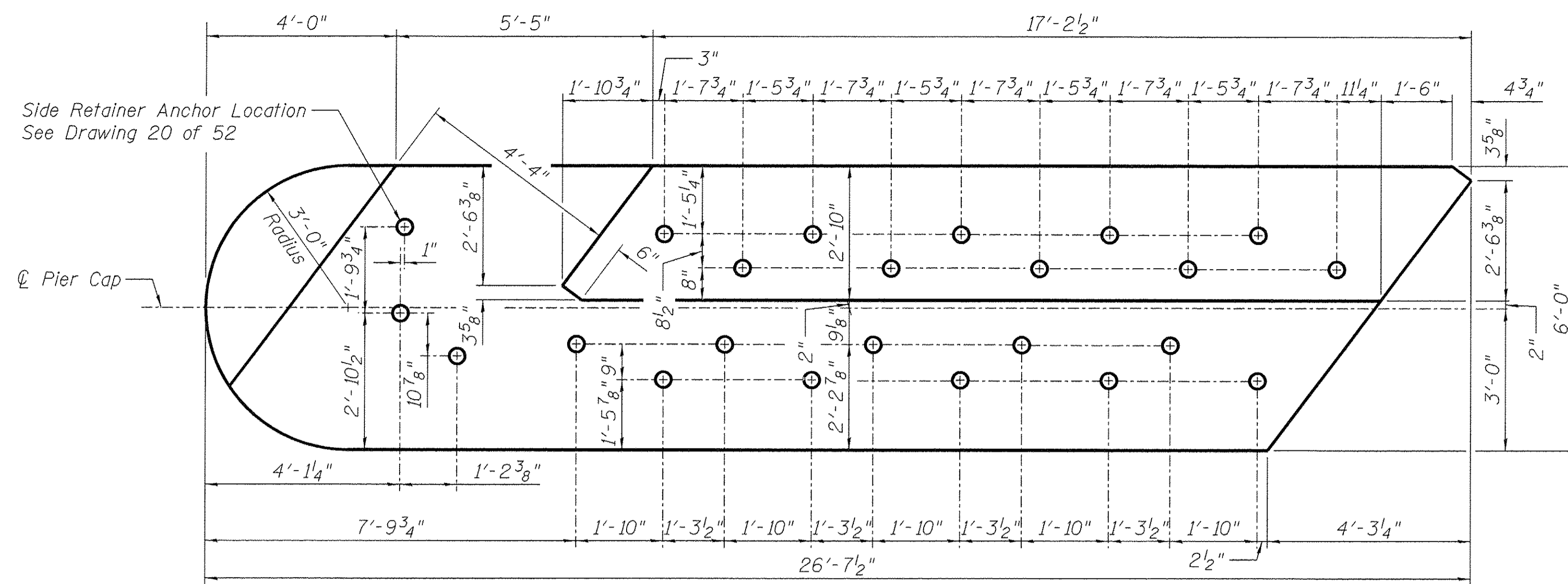
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRECAST PIER CAP - PC162.15-5
STRUCTURE 048-9928**

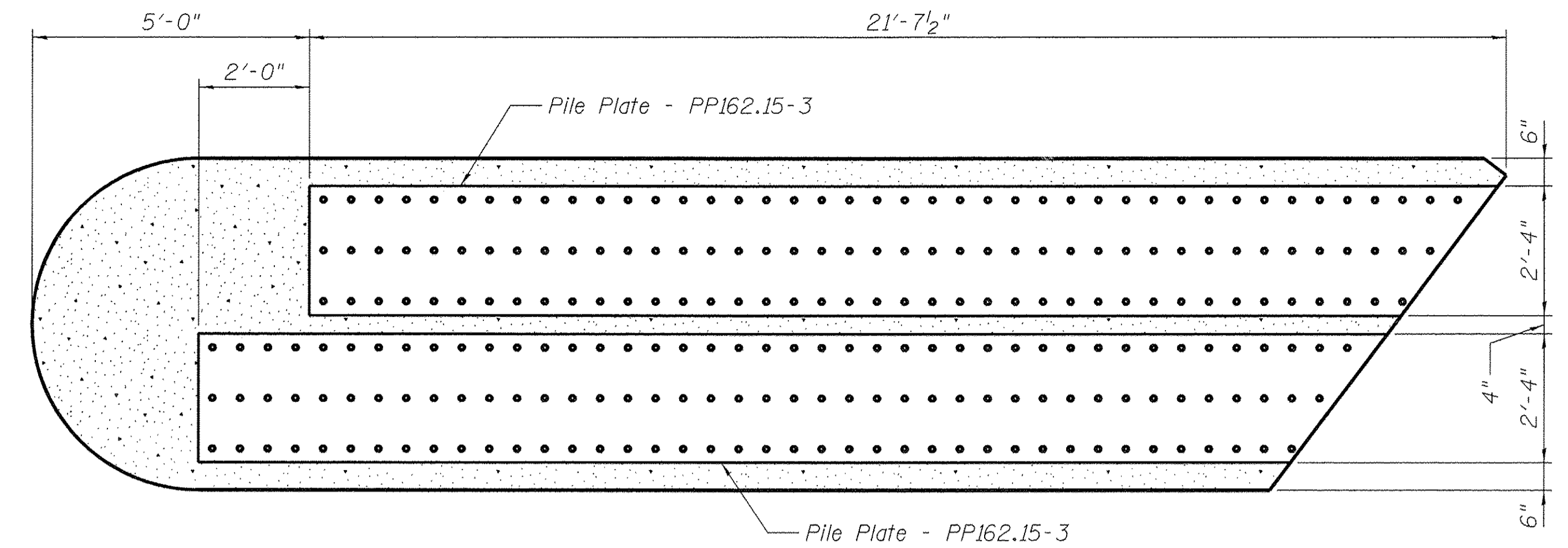
SHEET NO. 40 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	120
CONTRACT NO.			89417	

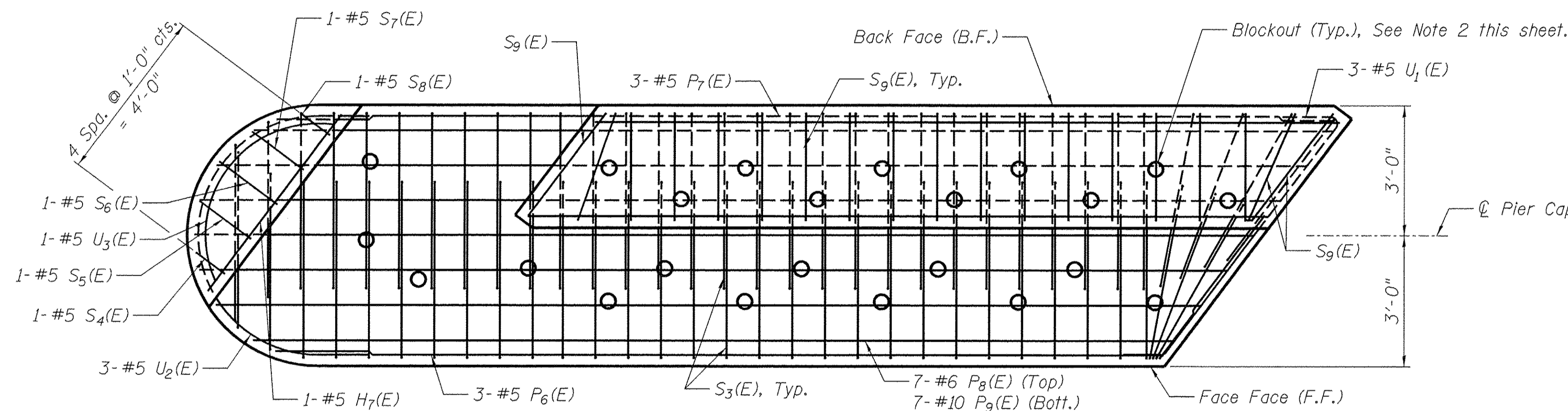
ILLINOIS FED. AID PROJECT



PLAN - BLOCKOUT LOCATIONS

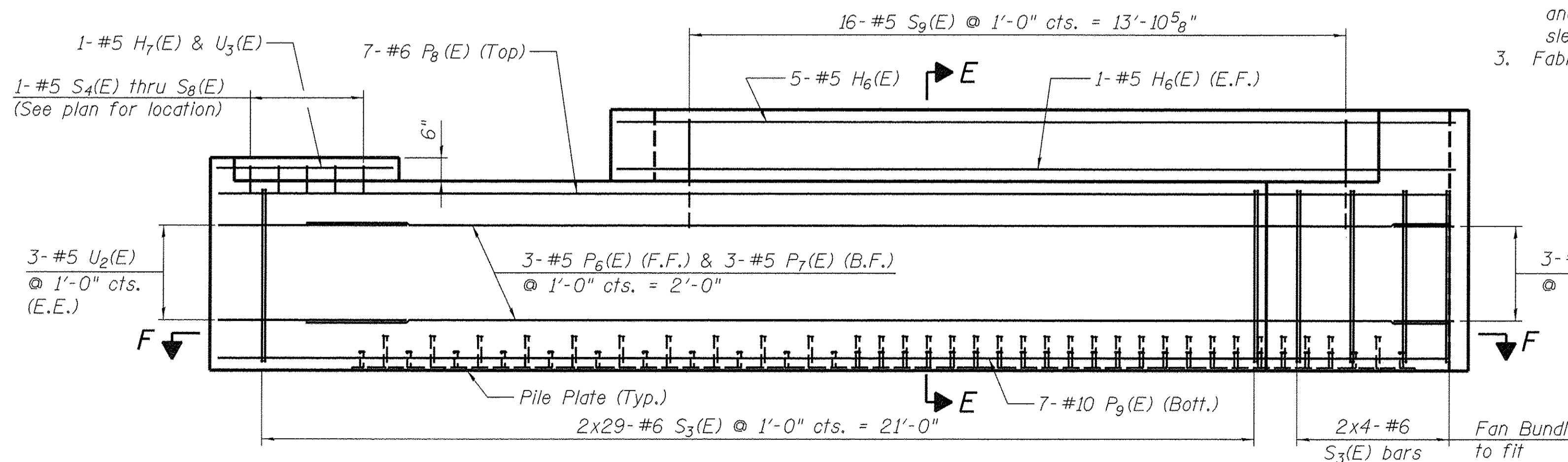


SECTION F-F
Reinforcement not show for clarity.



PLAN

- Notes:
- See Sheet 42 of 53 for general notes and Section E-E.
 - Blockouts shall be 4" dia. x 1'-3" CMP sleeves with 0.023" (24 gage) minimum thickness embedded in concrete for anchor bolts. Adjust reinforcement as necessary to clear sleeve.
 - Fabricator shall provide lifting devices.



ELEVATION

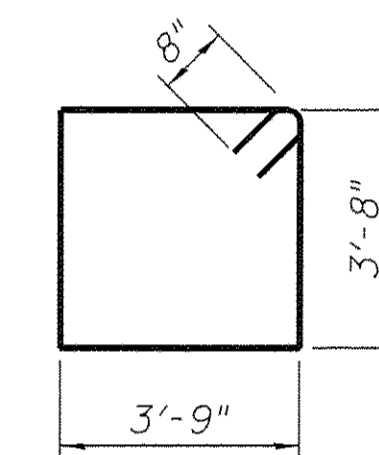
(Blockouts not shown for clarity)

PRECAST PIER CAP - PC162.15-6 (2 REQ'D.)

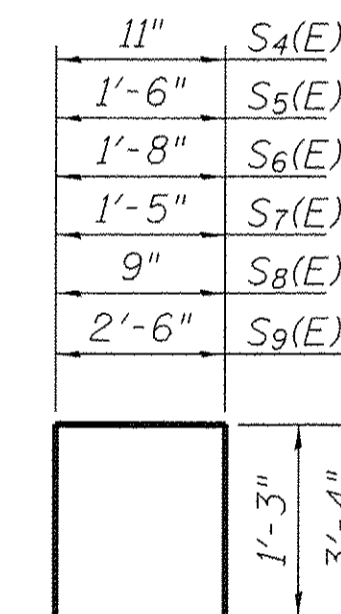
Wt. = 99,800 lbs., Vol. = 23.8 cu. yds., Reinf. Steel = 3,150 lbs.

BILL OF MATERIAL

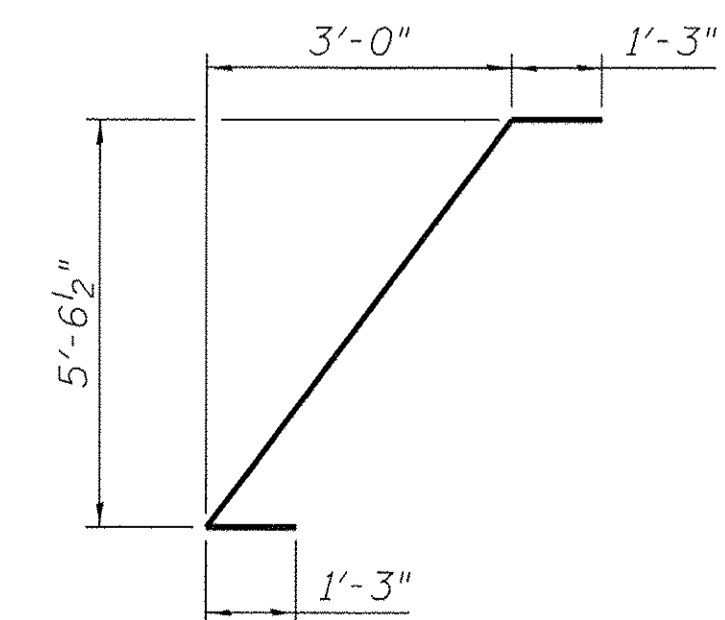
Bar	No.	Size	Length	Shape
H ₆ (E)	7	#5	17'-4"	—
H ₇ (E)	1	#5	4'-6"	—
P ₆ (E)	3	#5	19'-3"	—
P ₇ (E)	3	#5	23'-2"	—
P ₈ (E)	7	#6	24'-10"	—
P ₉ (E)	7	#10	24'-10"	—
S ₃ (E)	66	#6	16'-2"	□
S ₄ (E)	1	#5	3'-5"	□
S ₅ (E)	1	#5	4'-0"	□
S ₆ (E)	1	#5	4'-2"	□
S ₇ (E)	1	#5	3'-11"	□
S ₈ (E)	1	#5	3'-3"	□
S ₉ (E)	19	#5	9'-2"	□
U ₁ (E)	3	#5	8'-10"	⌋
U ₂ (E)	3	#5	11'-3"	⌋
U ₃ (E)	1	#5	6'-6"	⌋
MISCELLANEOUS ITEMS				
2	PILE PLATE PP162.15-3 (SEE DETAIL, SH. 45)			



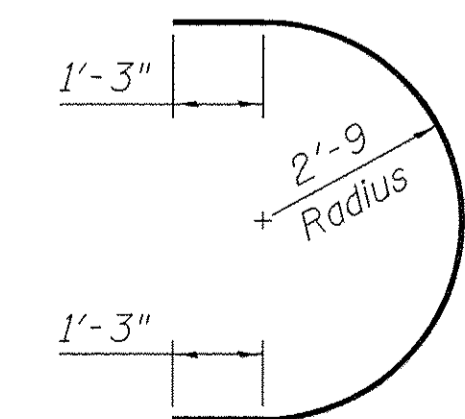
BAR S₃(E)



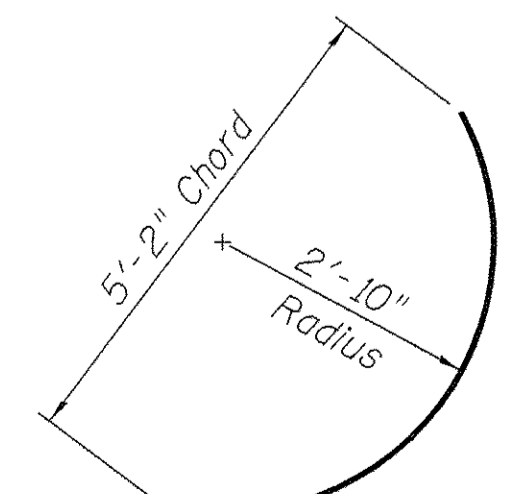
BAR S₄(E), S₅(E), S₆(E),
S₇(E), S₈(E), S₉(E)



BAR U₁(E)



BAR U₂(E)



BAR U₃(E)

DESIGNED - JEC
DRAWN - GTJ
REVIEWED - MAF

PROJECT: I:\s\svr\306.hanson.dom\Hanson Projects\Documents\09Jobs\09L0105\CA0-Phase1\Struct\Sheet\0409L0105-PrecastPierCap.PC162.15-6



USER NAME = andr08846
PLOT SCALE = 2:0.0000 1' = 1/8\"/>

DESIGNED - JEC
CHECKED - MAF
DRAWN - GTJ
CHECKED - MAF

REVISED -
REVISED -
REVISED -
REVISED -

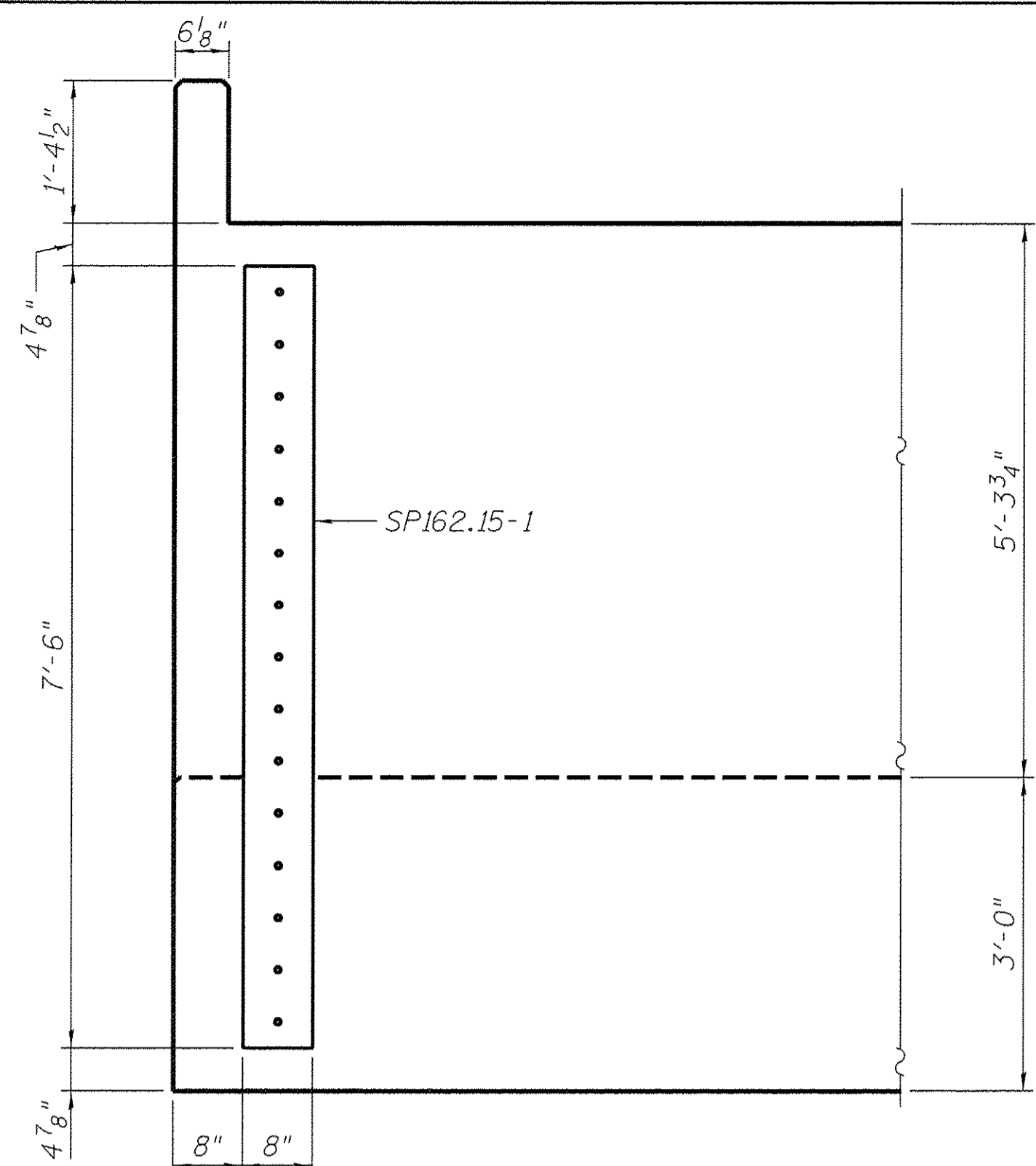
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST PIER CAP - PC162.15-6
STRUCTURE 048-9928

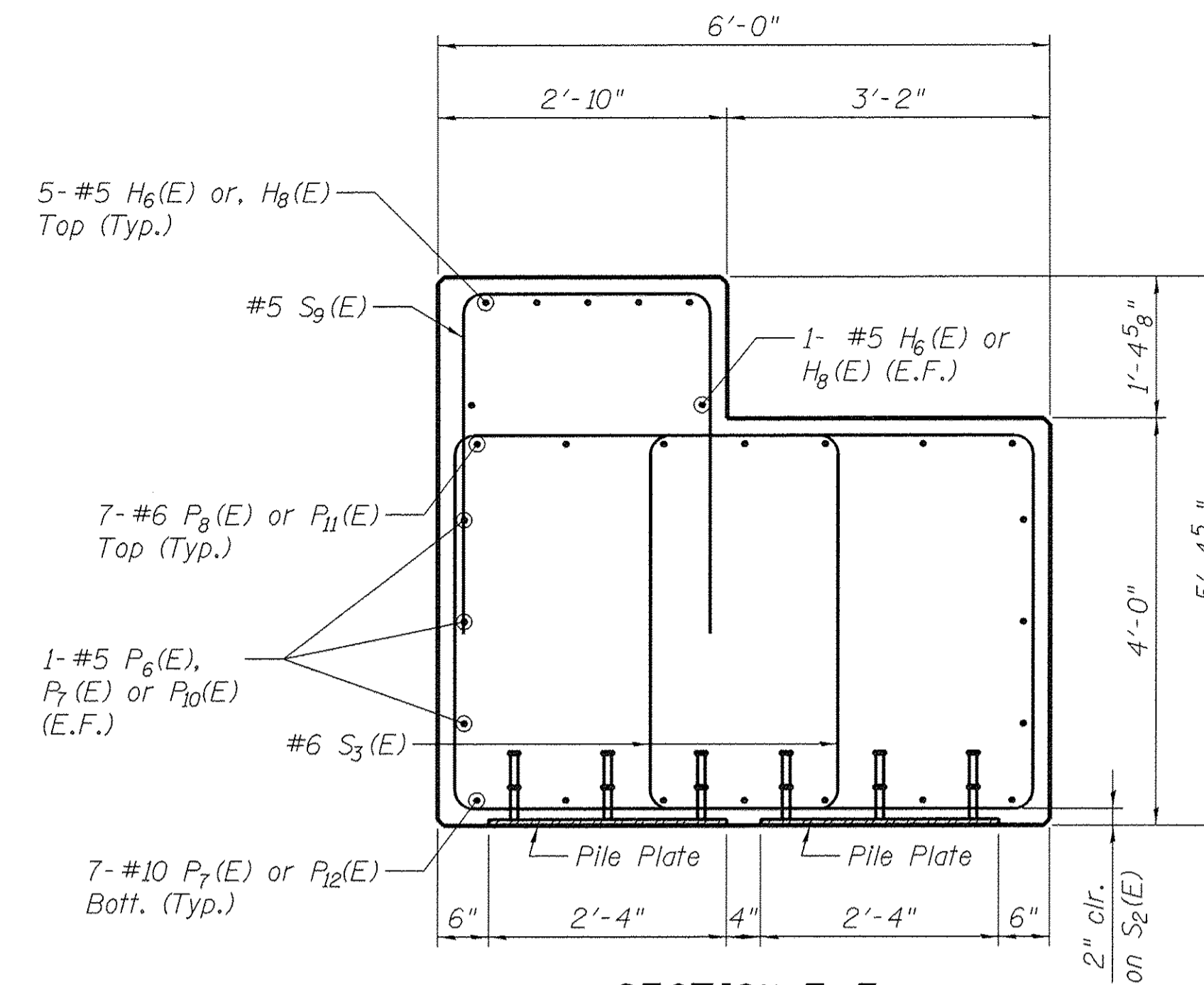
SHEET NO. 41 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	121
CONTRACT NO. 89417				

ILLINOIS FED. AID PROJECT

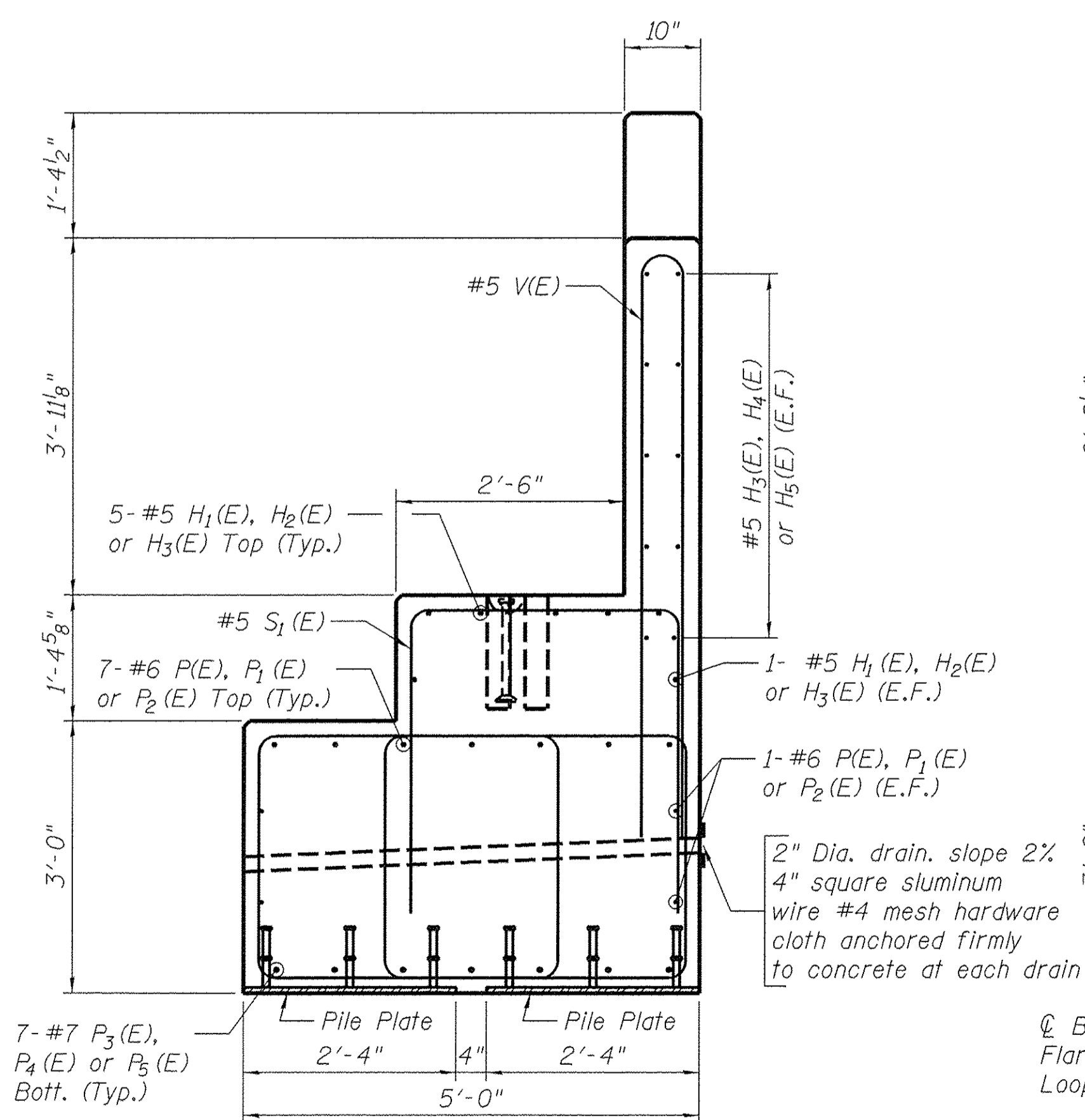


BACK FACE OF PC162.15-2 or -3



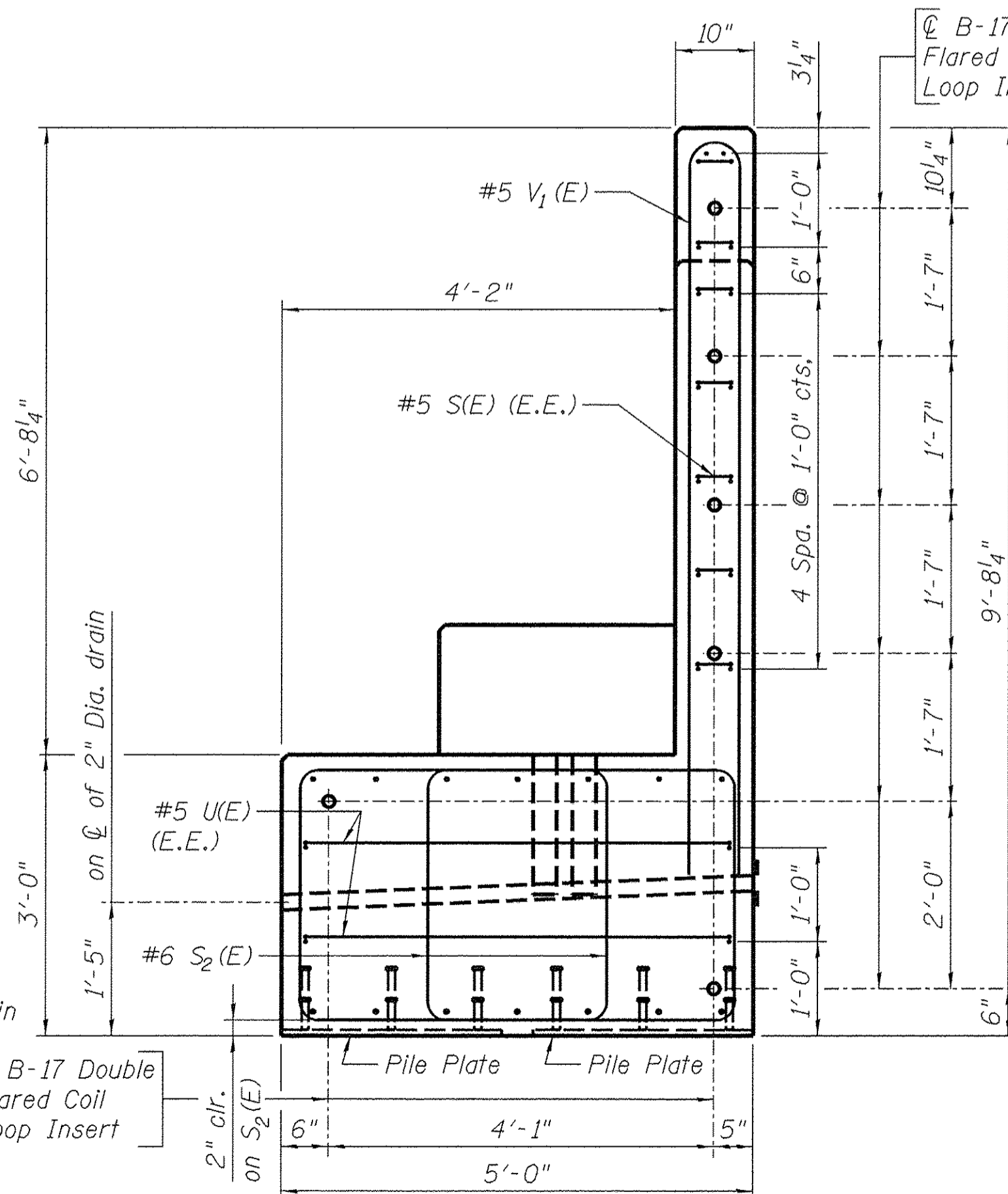
SECTION E-E

For further designation of horizontal bars see elevations of precast members



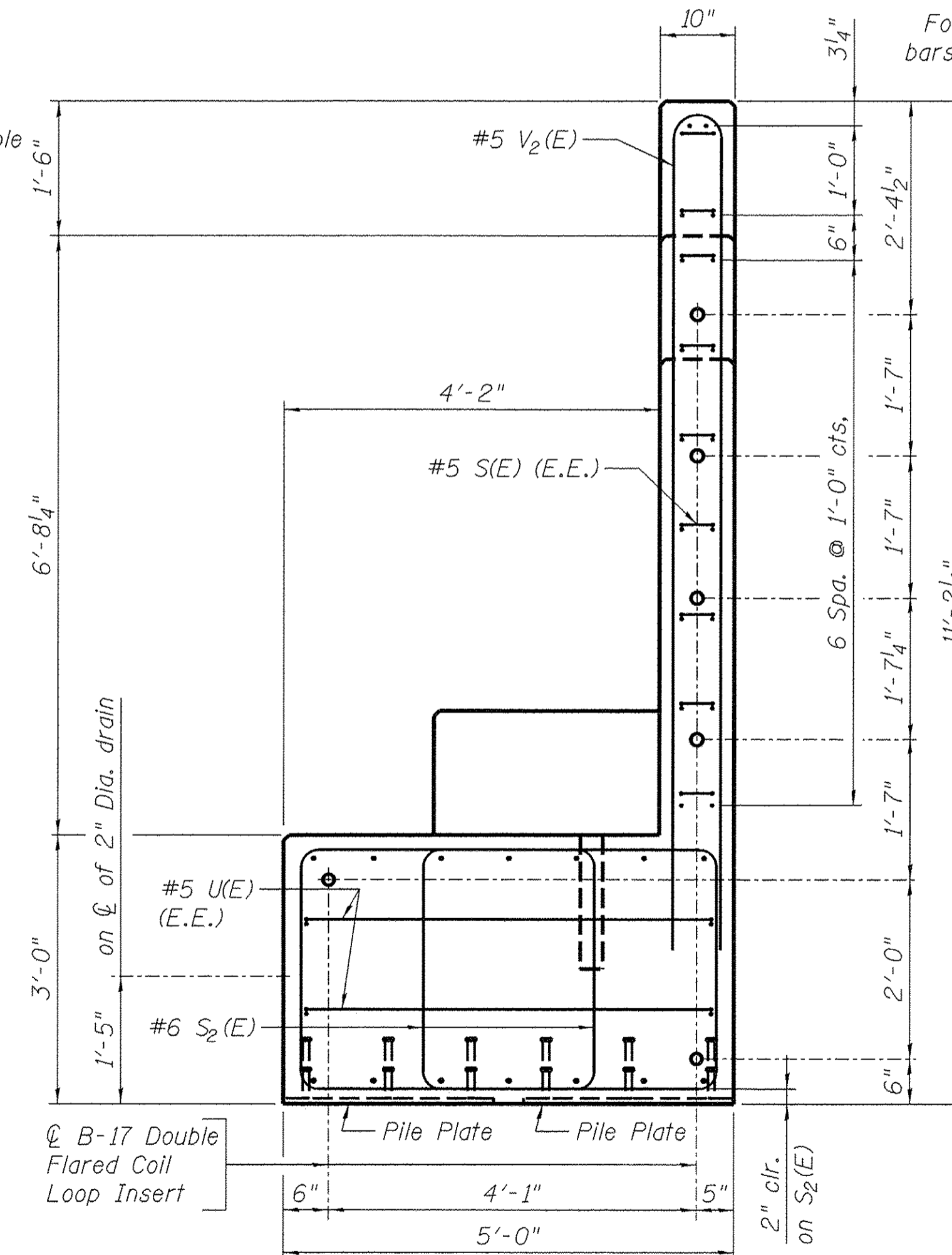
SECTION A-A

For further designation of horizontal bars see elevations of precast members



VIEW B-B

For further designation of horizontal bars see elevations of precast members
B-17 Inserts not required for PC162.15-2



VIEW C-C

For further designation of horizontal bars see elevations of precast members

Notes:
Coil loop inserts are to be Double Flared Type B-17 1 1/2" DIA. x 12" as manufactured by Dayton-Superior or an approved equal and have a Safe Working Load of 13,500 lbs. with a 4 to 1 Safety Factor. The inserts are to be completely recessed with 1/4" dia. x 17" Spiral Bolts attached to the cap for shipment.
The ultimate compressive strength of concrete shall be not less than 4000 p.s.i. in 28 days. Concrete members shall not be removed from the casting bed before the concrete reaches a strength of 2500 p.s.i.
All exposed edges of concrete members shall be chamfered 3/4".
Mild steel reinforcement shall meet the requirements of the current A.S.T.M. designation: A706, Grade 60.
Fabrication of reinforcement shall be in accordance with Chapter 7 of the current C.R.S.I. Manual of Standard Practice.
Steel reinforcement may be moved slightly so as to miss Pile Plates, Embedded Plates or Anchor Bolt locations.
Minimum concrete cover on reinforcement shall be two (2) inches.
Coil loop inserts, spiral bolts and plate washers shall be electro galvanized in conformance with ASTM B-633.

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-23-15

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USER NAME = andr00846

DESIGNED - JEC

CHECKED - MAF

REVIEWED -

PLOT SCALE = 1:4.0000 1' = 1/4"

PLOT DATE = 9/8/2015

DESIGNED - JEC

CHECKED - MAF

REVIEWED -

DRAWN - GTJ

CHECKED - MAF

REVIEWED -

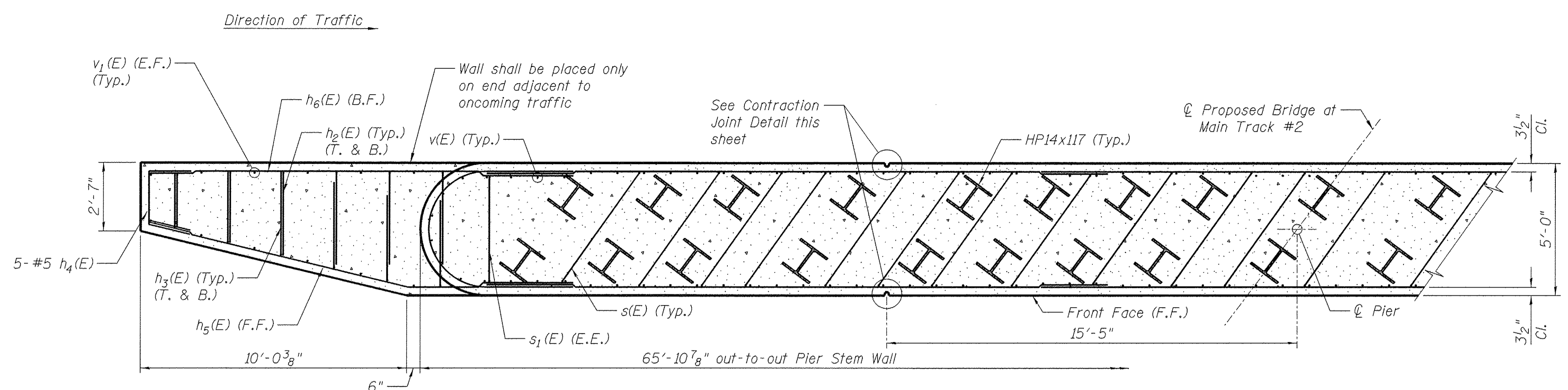
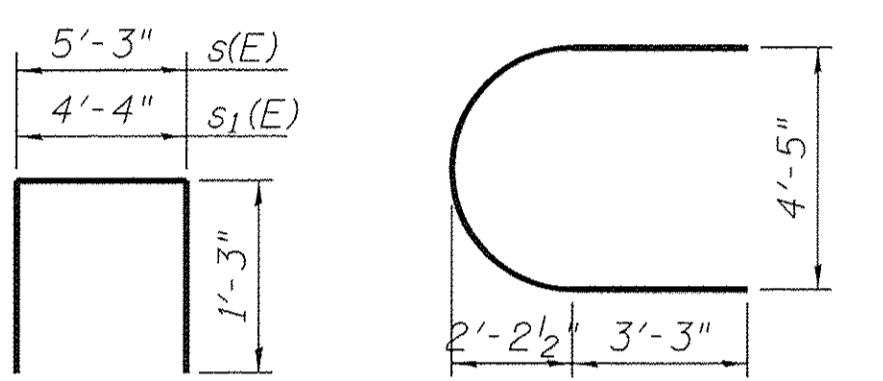
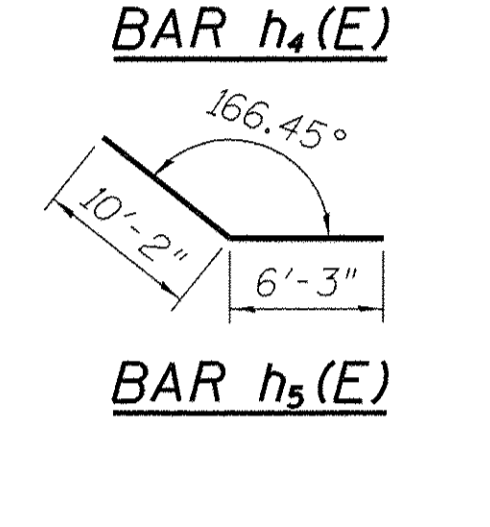
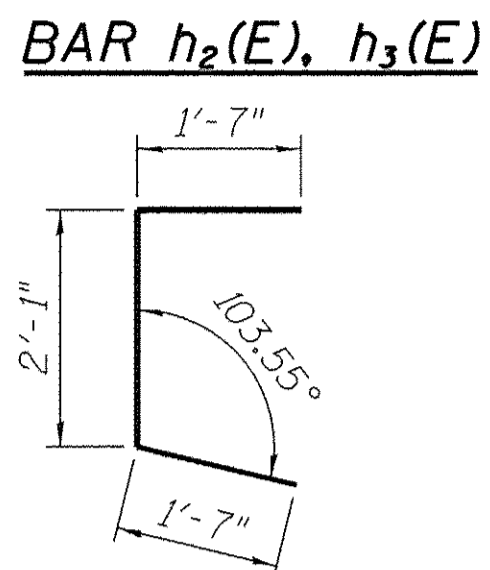
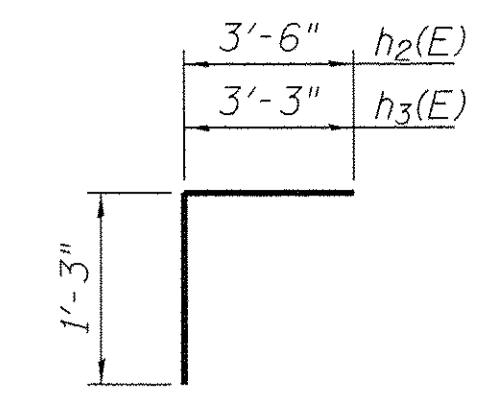
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CAP DETAILS
STRUCTURE 048-9928

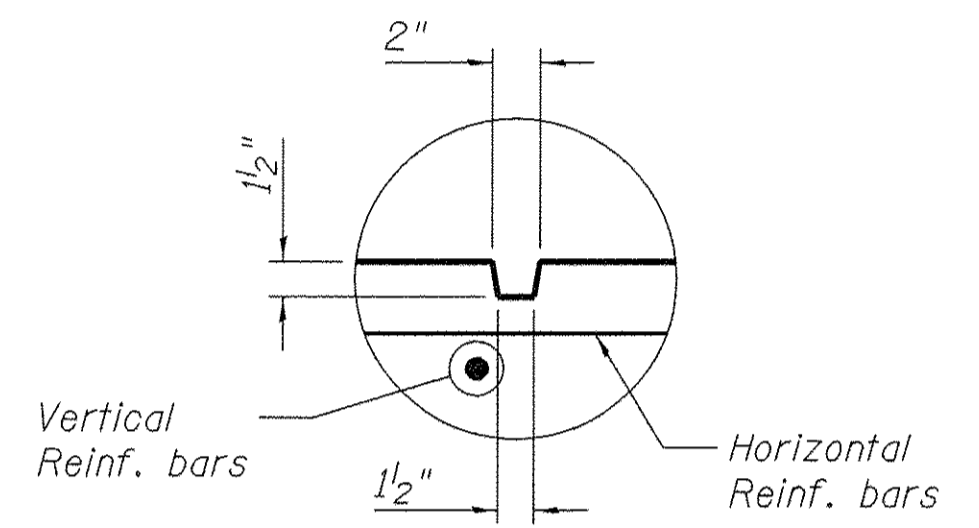
SHEET NO. 42 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	122
CONTRACT NO.				89417
ILLINOIS FED. AID PROJECT				

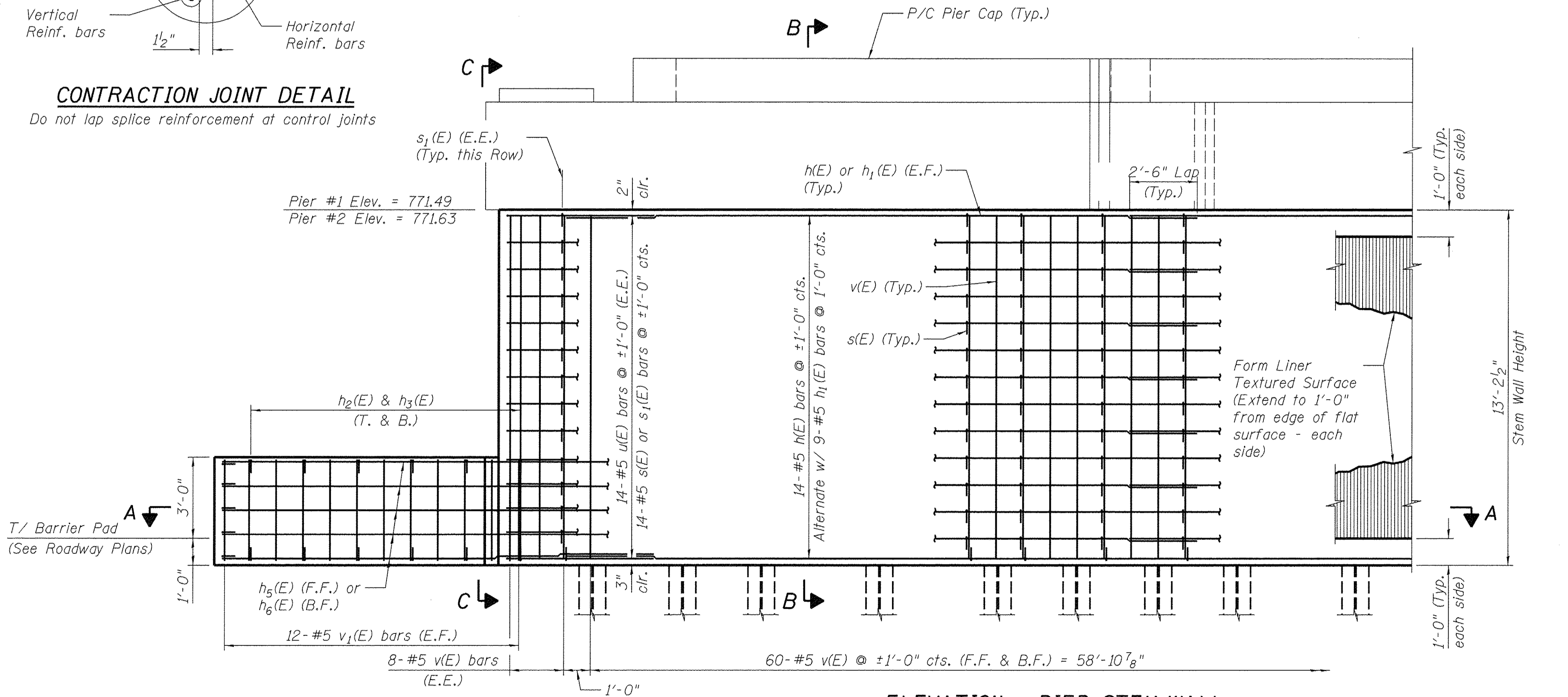
Bar	No.	Size	Length	Shape
h(E)	56	#5	22'-3"	—
h ₁ (E)	56	#5	41'-3"	—
h ₂ (E)	24	#5	4'-9"	┘
h ₃ (E)	24	#5	4'-6"	┘
h ₄ (E)	10	#5	5'-3"	┘
h ₅ (E)	10	#5	16'-5"	┘
h ₆ (E)	10	#5	16'-0"	—
s(E)	616	#5	7'-9"	┘
s ₁ (E)	56	#5	6'-10"	┘
u(E)	56	#5	13'-5"	┘
v(E)	272	#5	12'-9"	—
v ₁ (E)	48	#5	3'-7"	—
Concrete Structures			Cu. Yd.	346.3
Form Liner Textured Surface			Sq. Ft.	2,650
Reinforcement Bars, Epoxy Coated			Pound	14,300



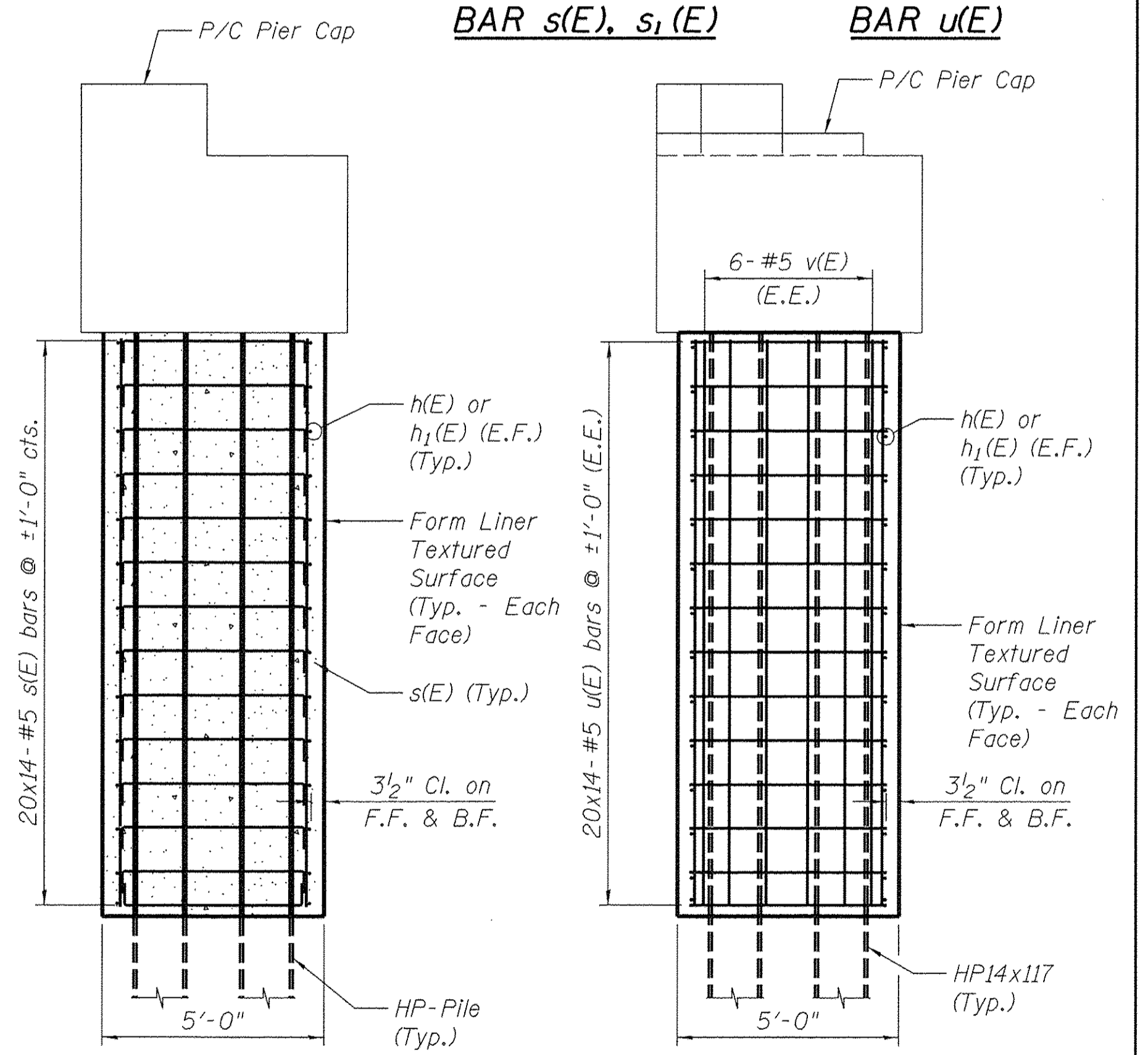
SECTION A-A
(Pier #1 shown, Pier #2 similar)



CONTRACTION JOINT DETAIL
Do not lap splice reinforcement at control joints



ELEVATION - PIER STEM WALL
(Only piles in front face of pier shown for clarity.)



SECTION B-B **SECTION C-C**

- Notes:
- During excavation for roadway, contractor shall install bracing between piles as shown on Sheet 2 of 52.
 - See Special Provision for additional information on the item "Form Liner Textured Surface".

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

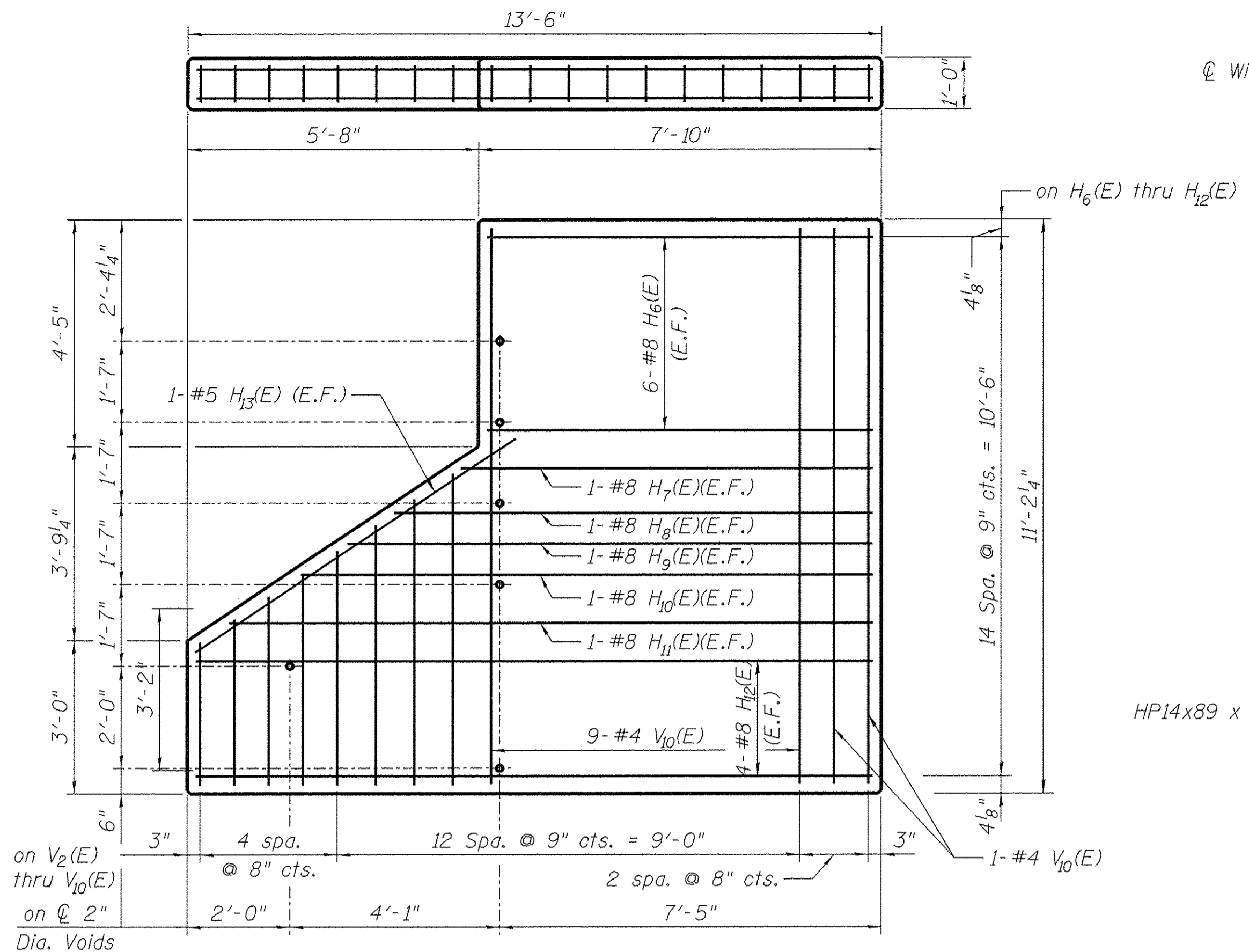
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USER NAME	= ander00846	DESIGNED	= JEC
PLOT SCALE	= 2x8.0000 '1' / 1in.	CHECKED	= MAF
PLOT DATE	= 9/8/2015	DRAWN	= GTJ
		CHECKED	= MAF
		REVISED	=

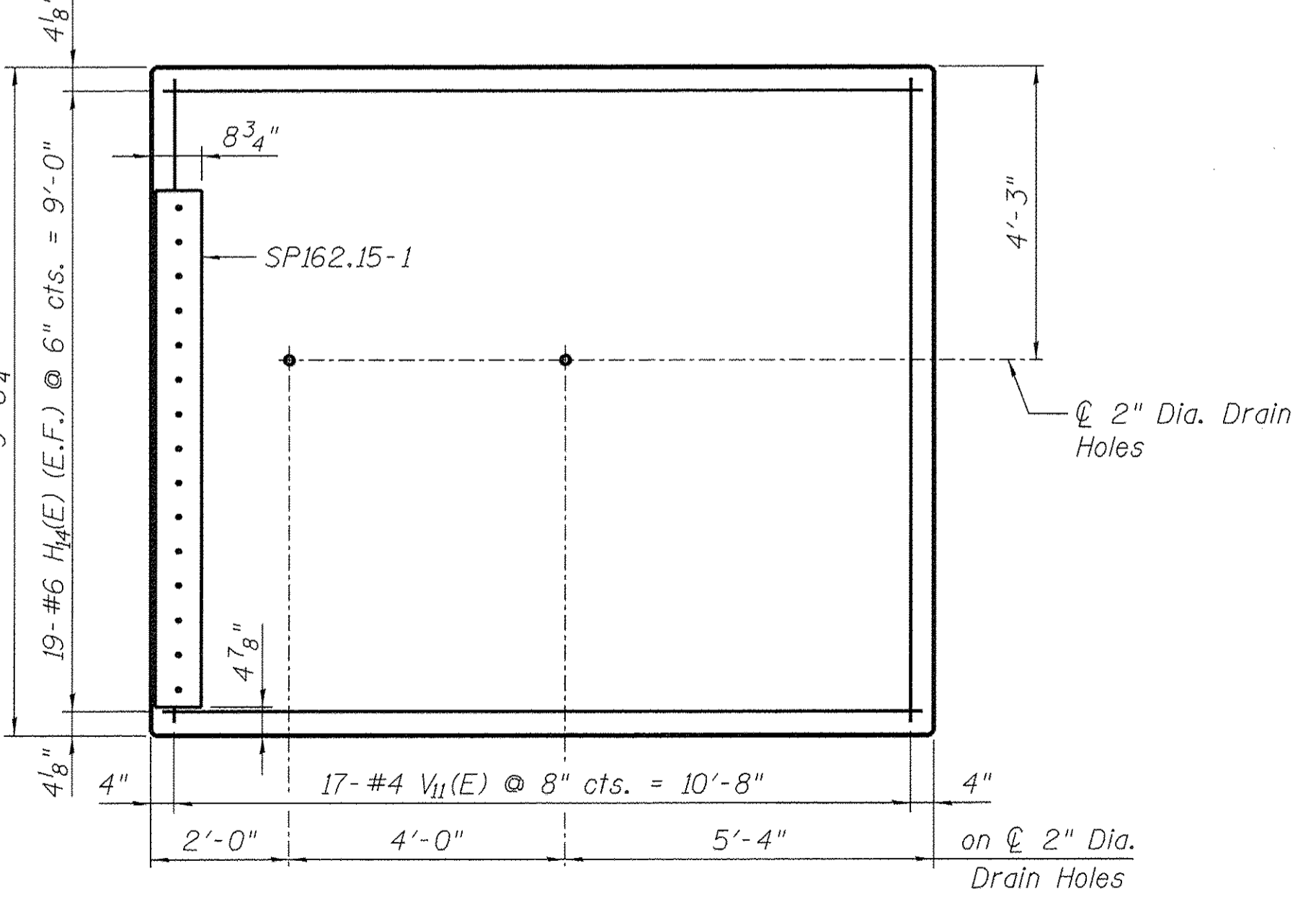
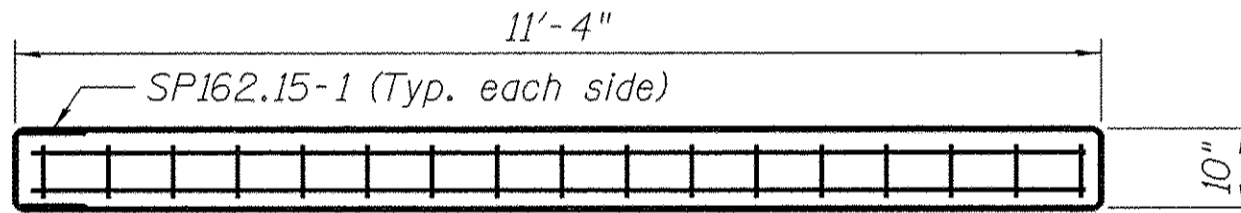
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE PIER STEM WALL DETAILS
STRUCTURE 048-9928

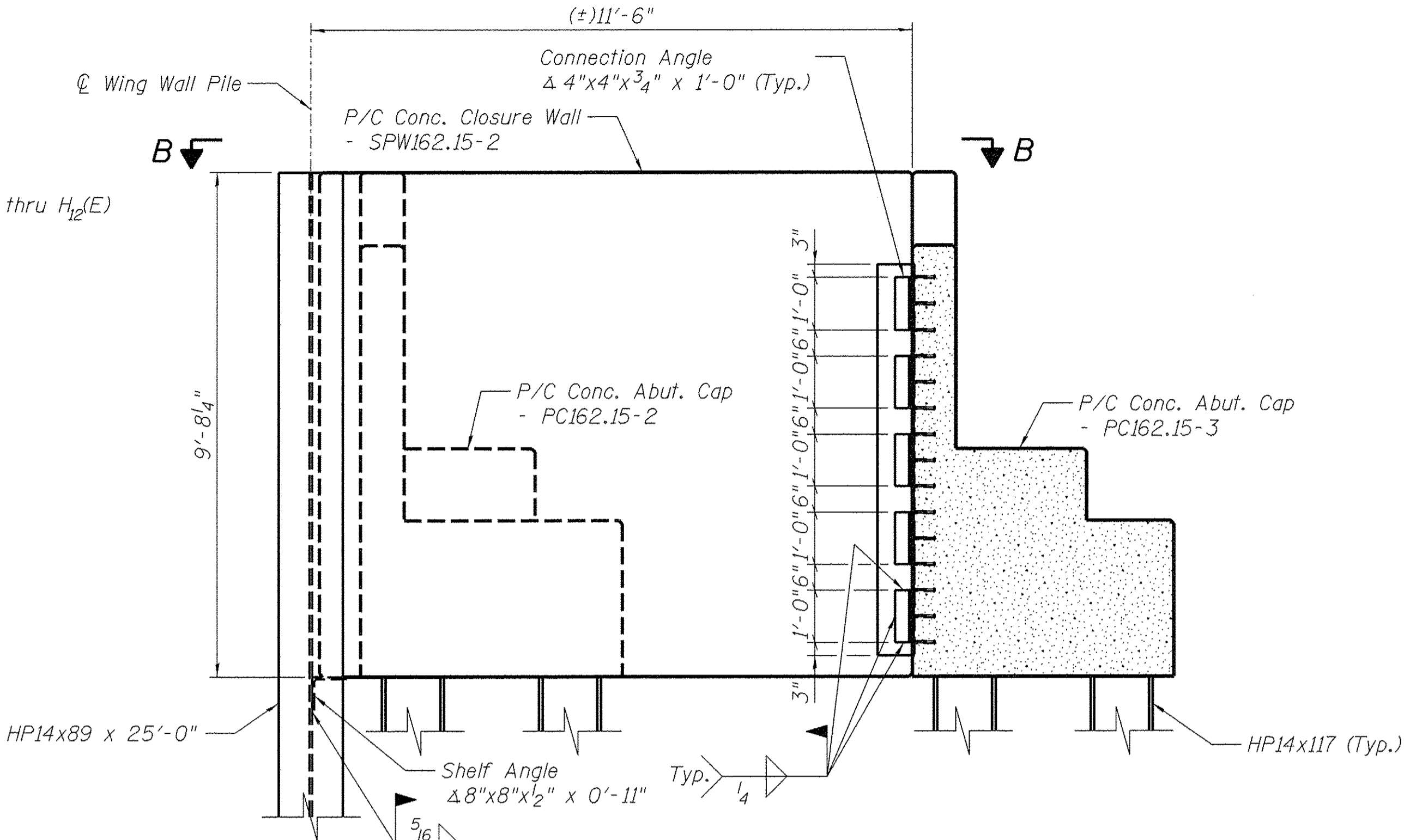
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	123
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



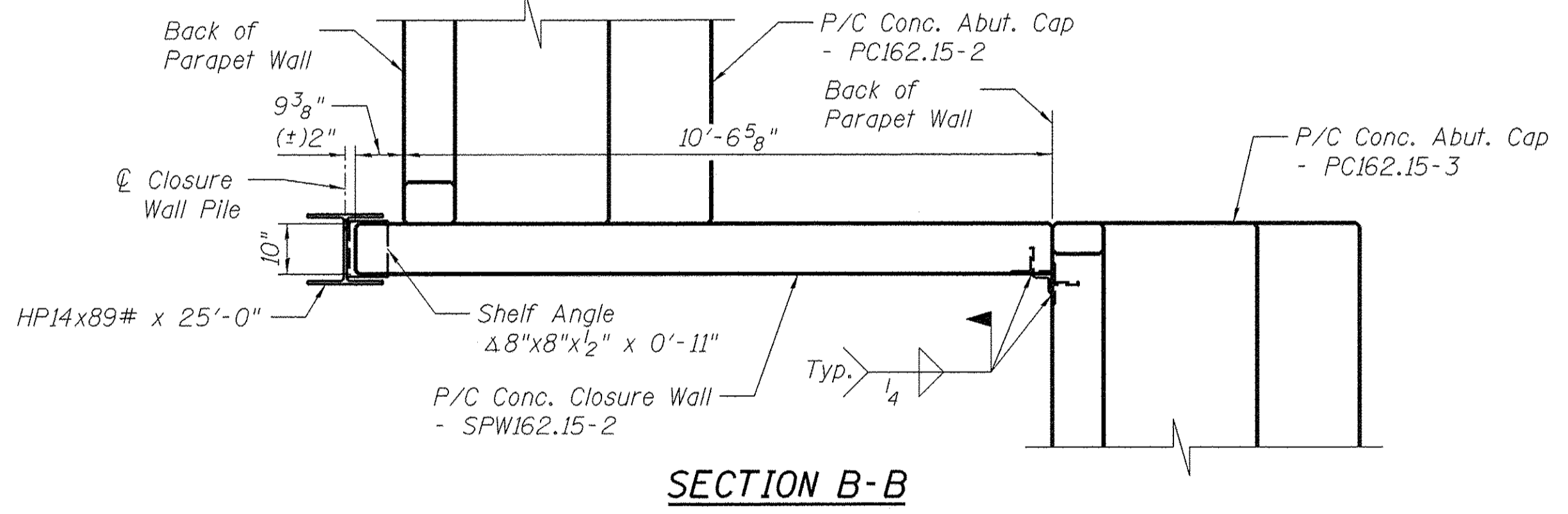
PRECAST WING WALL - SPW162.15-1 (4 REQ'D.)
 Wt. = 17,000 lbs., Vol. = 4.27 cu. yds., Reinf. Steel = 1,020 lbs.



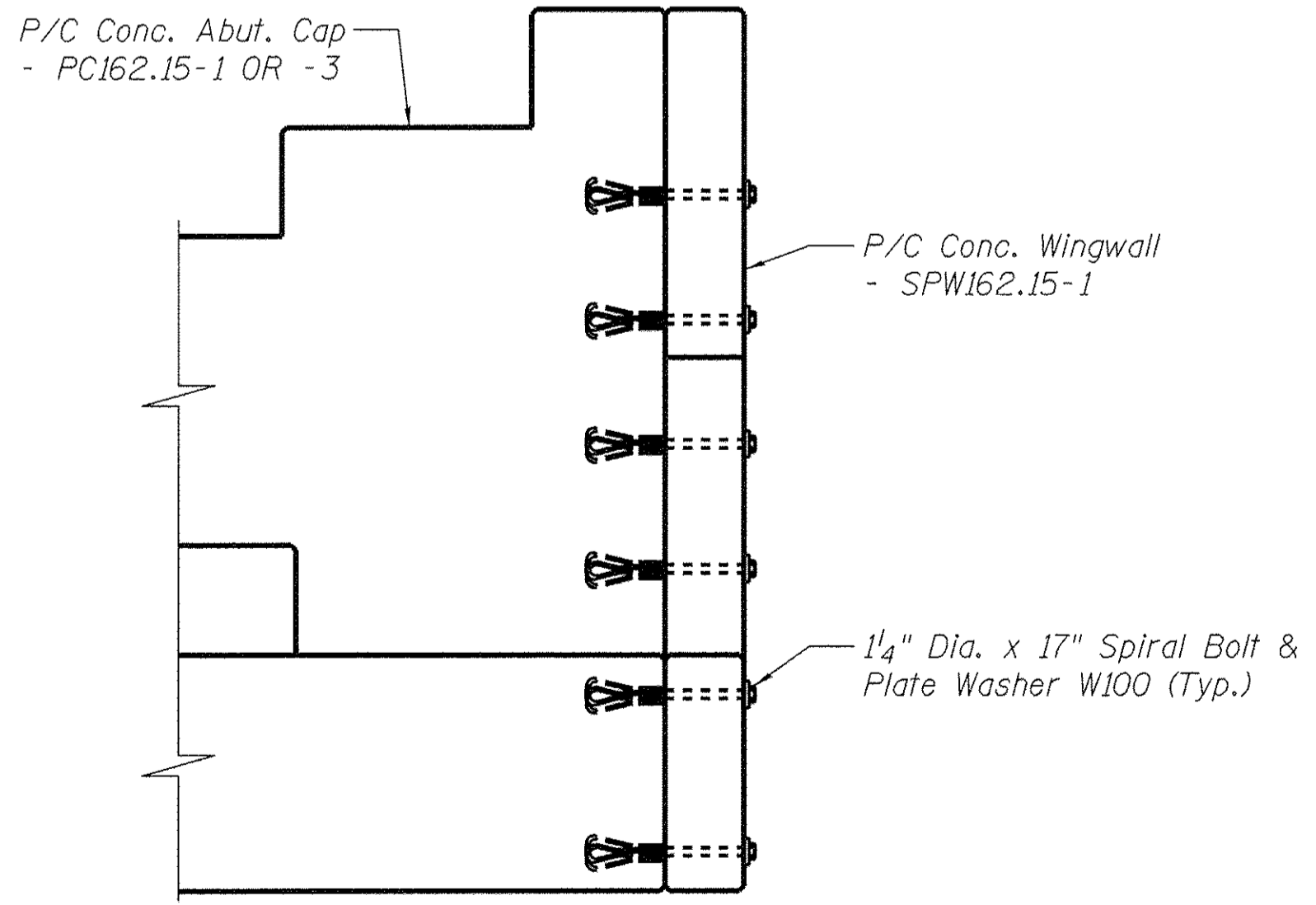
PRECAST CLOSURE WALL - SPW162.15-2 (4 REQ'D.)
 Wt. = 14,300 lbs., Vol. = 3.39 cu. yds., Reinf. Steel = 860 lbs.



SECTION A-A



SECTION B-B



WINGWALL CONNECTION DETAIL

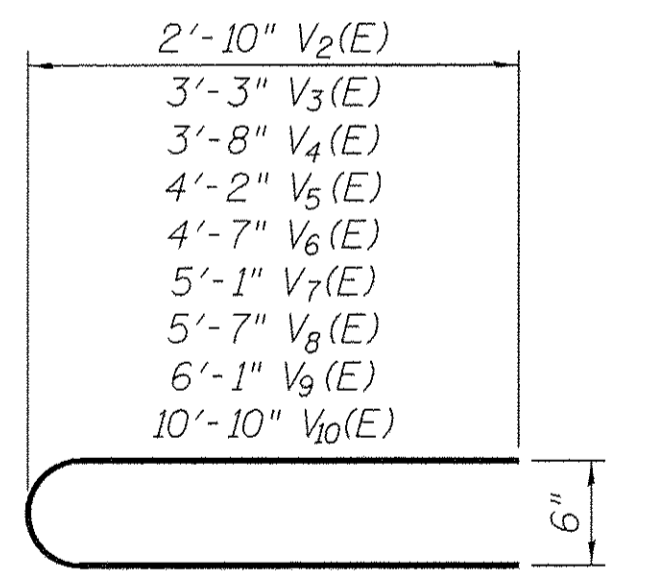
Note:
 Fabricator shall provide lifting devices for SPW162.15-1 and SPW162.15-2.

BILL OF MATERIAL
WINGWALL - SPW162.15-1

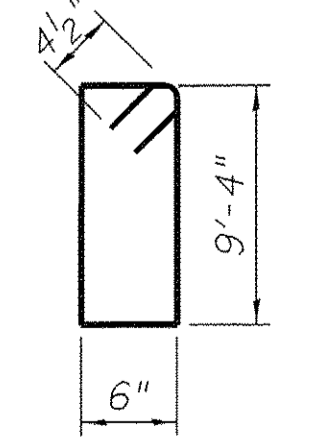
Bar	No.	Size	Length	Shape
H ₆ (E)	12	#8	7'-6"	—
H ₇ (E)	2	#8	8'-0"	—
H ₈ (E)	2	#8	9'-3"	—
H ₉ (E)	2	#8	10'-2"	—
H ₁₀ (E)	2	#8	11'-1"	—
H ₁₁ (E)	2	#8	12'-6"	—
H ₁₂ (E)	8	#8	13'-2"	—
H ₁₃ (E)	2	#5	7'-6"	—
V ₂ (E)	1	#4	6'-0"	—
V ₃ (E)	1	#4	6'-10"	—
V ₄ (E)	1	#4	7'-8"	—
V ₅ (E)	1	#4	8'-8"	—
V ₆ (E)	1	#4	9'-6"	—
V ₇ (E)	1	#4	10'-6"	—
V ₈ (E)	1	#4	11'-6"	—
V ₉ (E)	1	#4	12'-6"	—
V ₁₀ (E)	11	#4	22'-0"	—
MISCELLANEOUS ITEMS				
6	PLATE WASHER, W100 (SEE SHEET 46)			

BILL OF MATERIAL
CLOSURE WALL - SPW162.15-2

Bar	No.	Size	Length	Shape
H ₄ (E)	38	#6	11'-0"	—
V ₁₁ (E)	17	#4	20'-5"	□
MISCELLANEOUS ITEMS				
5	CONNECTION ANGLE, Δ 4" x 4" x 3/4" x 1'-0"			
2	CLOSURE WALL PLATE SP162.15-1 (SEE SHEET 45)			



BARS V₂(E), V₃(E), V₄(E), V₅(E), V₆(E), V₇(E), V₈(E), V₉(E), V₁₀(E)

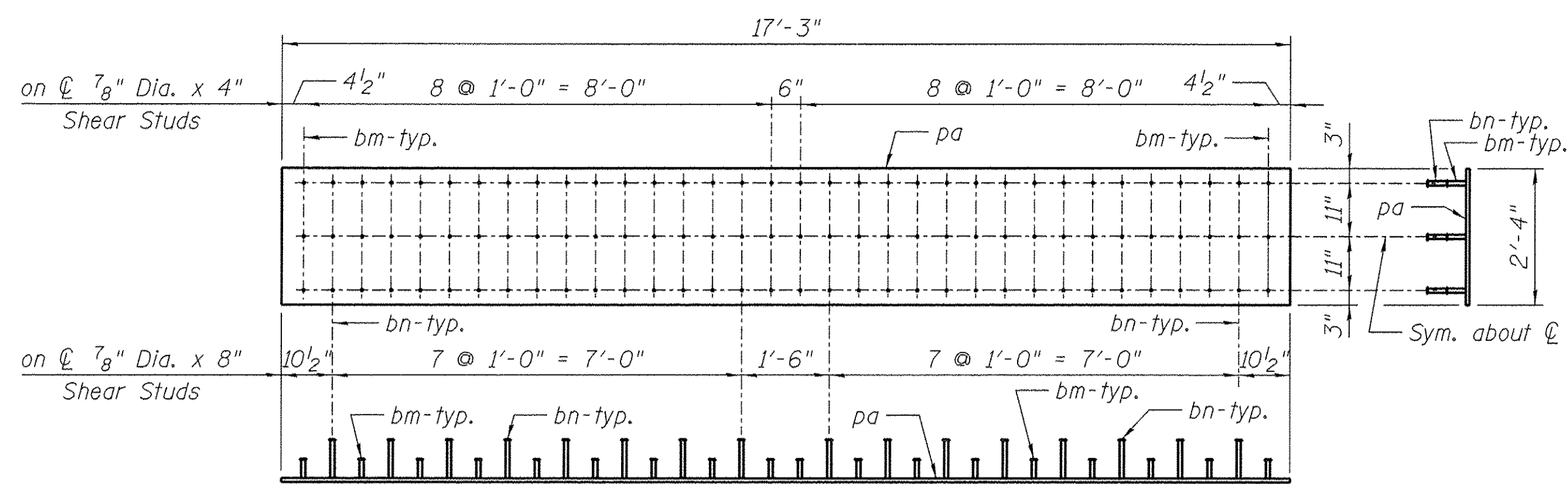


BAR V₁₁(E)

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

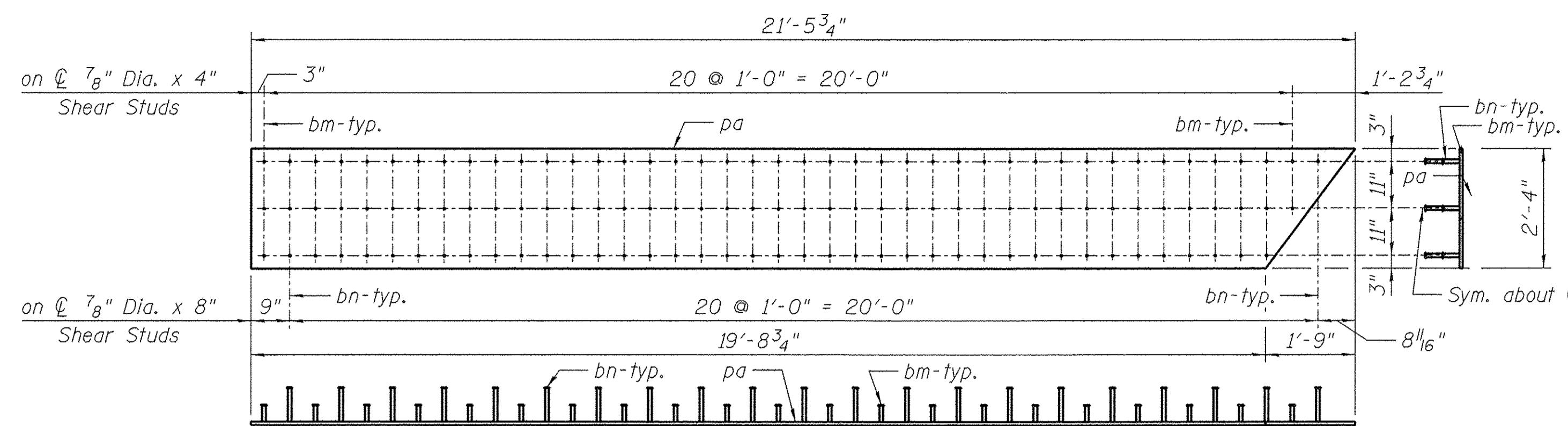
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	USER NAME = andr00846	DESIGNED - JEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRECAST CLOSURE WALL AND WINGWALL DETAILS STRUCTURE 048-9928	F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 124
	PLOT SCALE = 2:0.0000 '1' = 1/8"	DRAWN - GTJ	REVISED -			CONTRACT NO. 89417				
	PLOT DATE = 9/8/2015	CHECKED - MAF	REVISED -			ILLINOIS FED. AID PROJECT				



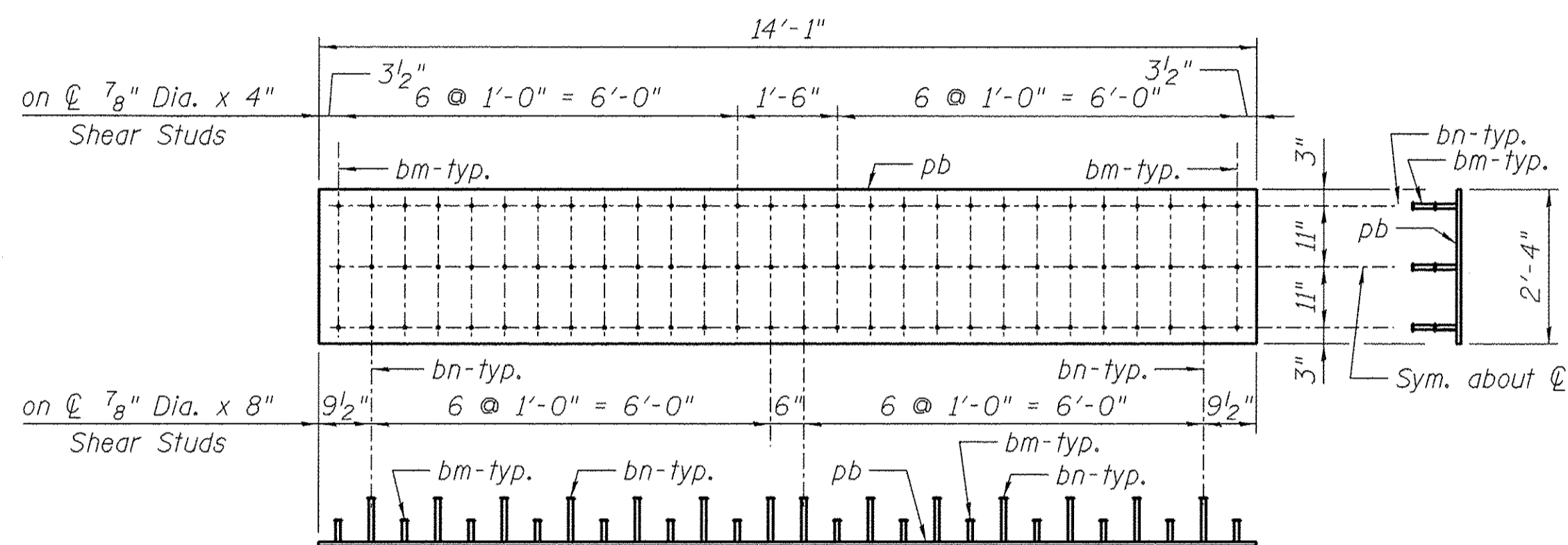
PILE PLATE PPI62.15-1 (8 REQ'D.)

1 - Plate 3/4" x 28" x 17'-3" - pa
 54 - 7/8" Dia. x 4" Shear Studs - bm
 48 - 7/8" Dia. x 8" Shear Studs - bn
 Weight = 1,345 lbs.



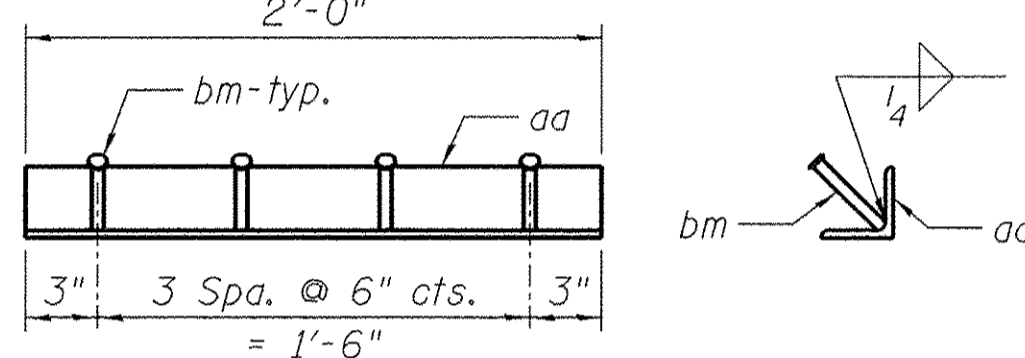
PILE PLATE PPI62.15-3 (8 REQ'D.)

1 - Plate 3/4" x 28" x 21'-5 3/4" - pa
 62 - 7/8" Dia. x 4" Shear Studs - bm
 61 - 7/8" Dia. x 8" Shear Studs - bn
 Weight = 1,650 lbs.



PILE PLATE PPI62.15-2 (4 REQ'D.)

1 - Plate 3/4" x 28" x 14'-1" - pb
 42 - 7/8" Dia. x 4" Shear Studs - bm
 42 - 7/8" Dia. x 8" Shear Studs - bn
 Weight = 1,100 lbs.

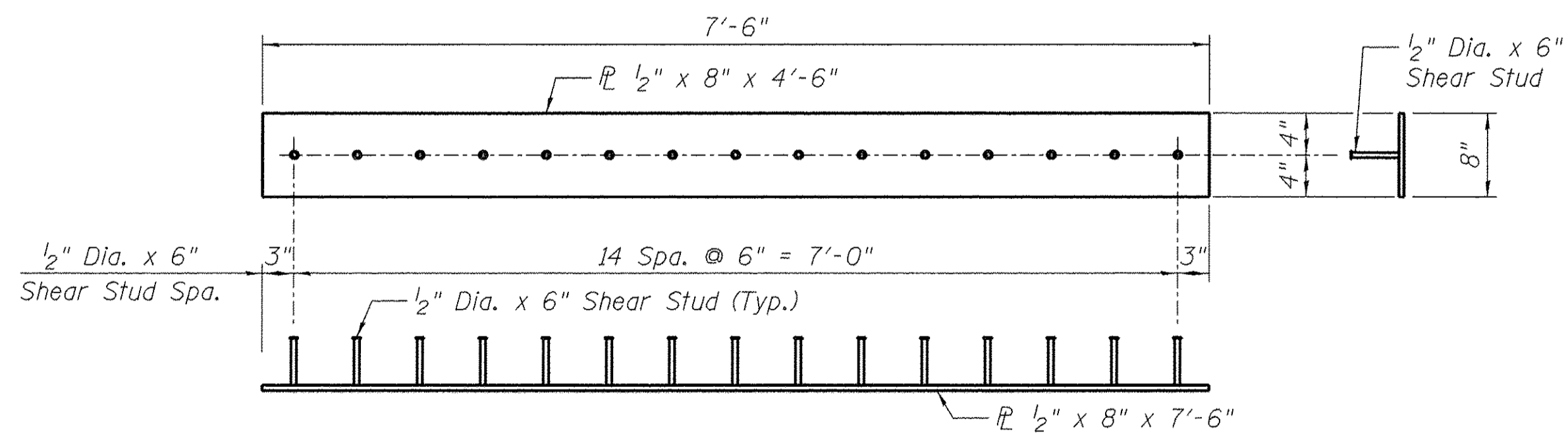


EMBEDDED ANGLE SA162.15-1

1 - Angle 3" x 3" x 5/16" x 2'-0" - aa
 4 - 1/2" Dia. x 3" Shear Studs - bm
 Weight = 13 lbs.

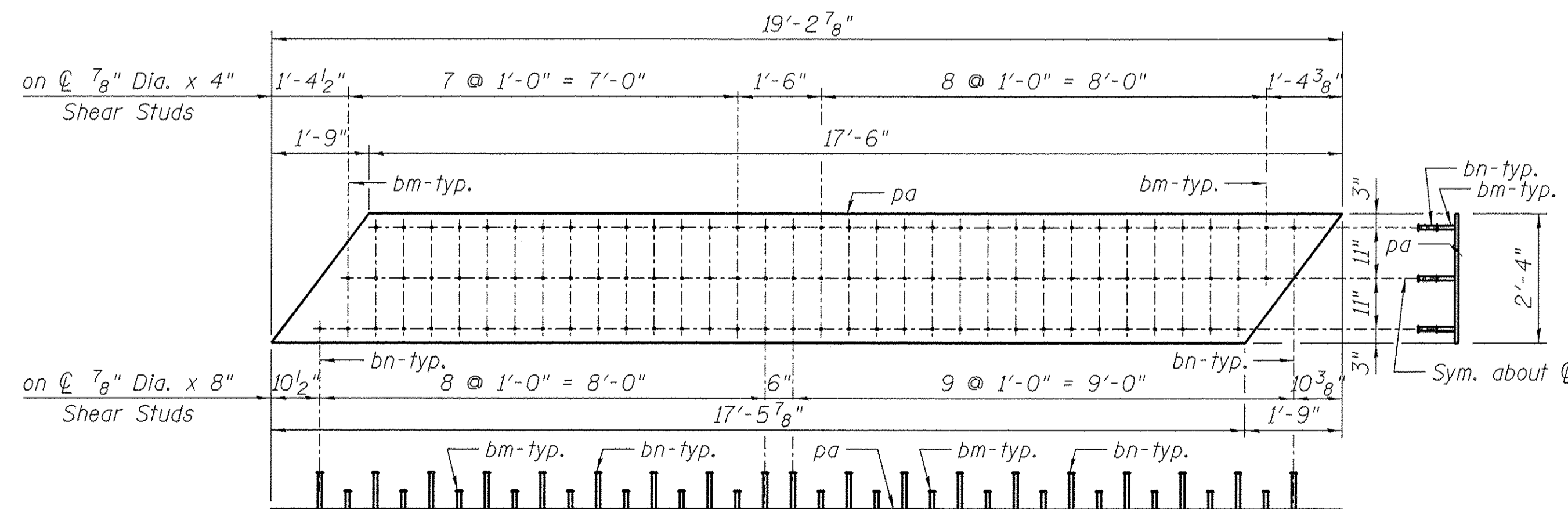
Notes:

Structural Steel plates and bars shall meet the requirements of the current A.S.T.M. designation: A36.
 Shear Connector Studs shall meet the requirements of Section 7 of the current A.W.S. Structural Welding Code D1.1 for Grade 1020 Solid Flux filled Headed Studs.
 Fabrication and Arc Welding of Structural Steel shall be in accordance with the Specifications. Open Holes: As noted. Shop Paint: None.
 Shear Connector Studs shall be automatically end welded with complete fusion in accordance with Section 7 of the current A.W.S. Structural Welding Code D1.1.
 Members noted to be galvanized shall be galvanized after fabrication in accordance with the current A.S.T.M. designation: A123.
 After galvanizing all elements shall be free of fins, abrasions, rough or sharp edges and other surface defects.
 All steel this sheet incidental to the Lump Sum cost of "Precast Concrete Substructure".



CLOSURE WALL PLATE SPI62.15-1 (12 REQ'D.)

8 Req'd. - Mk. SPI62.15-1
 15 - 1/2" Dia. x 6" Shear Studs
 Weight = 108 lbs.



PILE PLATE PPI62.15-5 (4 REQ'D.)

1 - Plate 3/4" x 28" x 19'-2 7/8" - pa
 49 - 7/8" Dia. x 4" Shear Studs - bm
 53 - 7/8" Dia. x 8" Shear Studs - bn
 Weight = 1,402 lbs.

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

pxr\\spi-svr306.hanson.dom\Hanson Projects\Documents\09Jobs\09L0105\CAD-PhaseII\Struct\Sheet\0409L0105-Misc.Details.1



USER NAME	= ande08846
DESIGNED	- JEC
CHECKED	- MAF
DRAWN	- GTJ
CHECKED	- MAF
PLOT SCALE	= 0:1.0000 1" = 1'-0"
PLOT DATE	= 9/8/2015

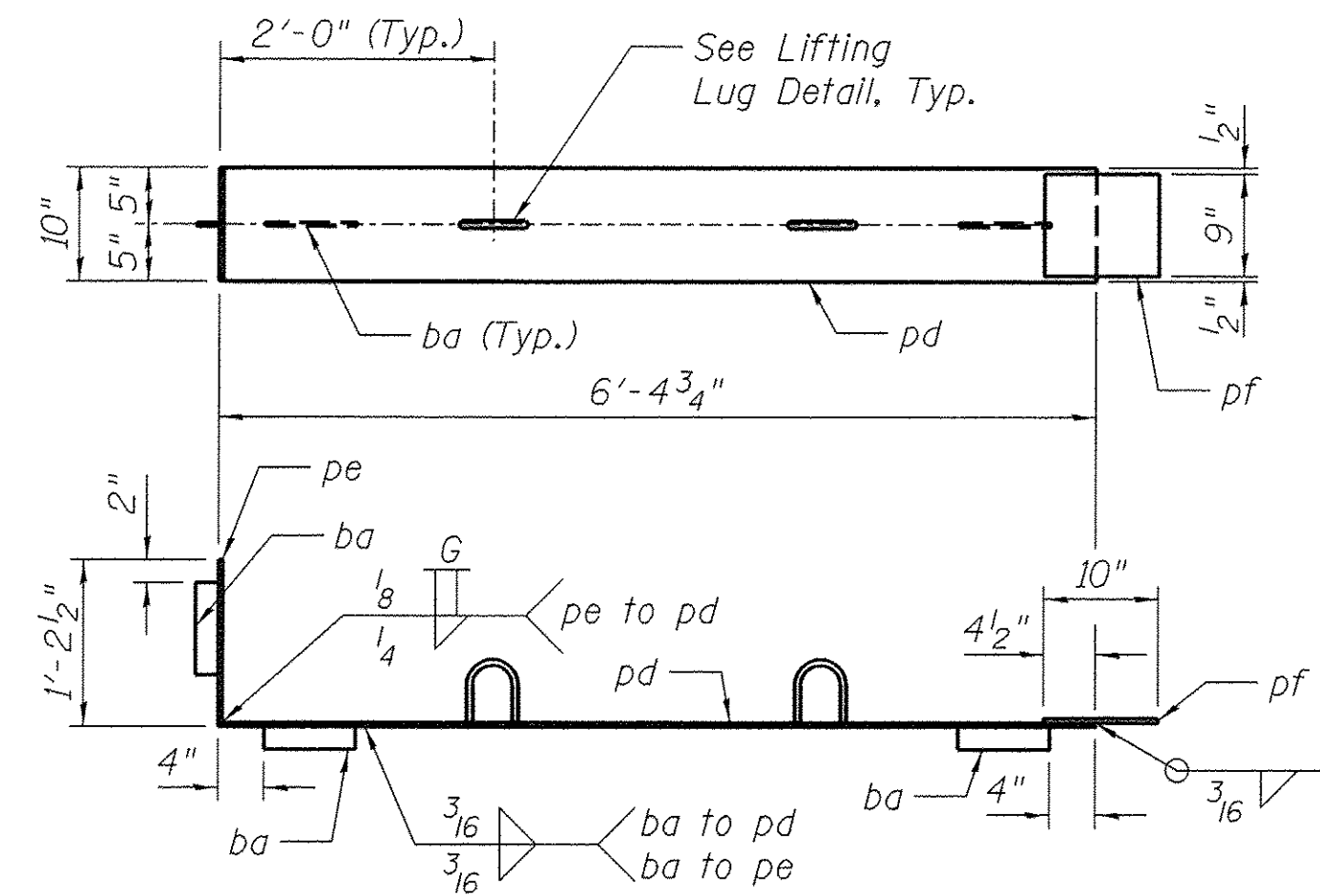
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS STEEL DETAILS (SHEET 1 OF 2)
 STRUCTURE 048-9928

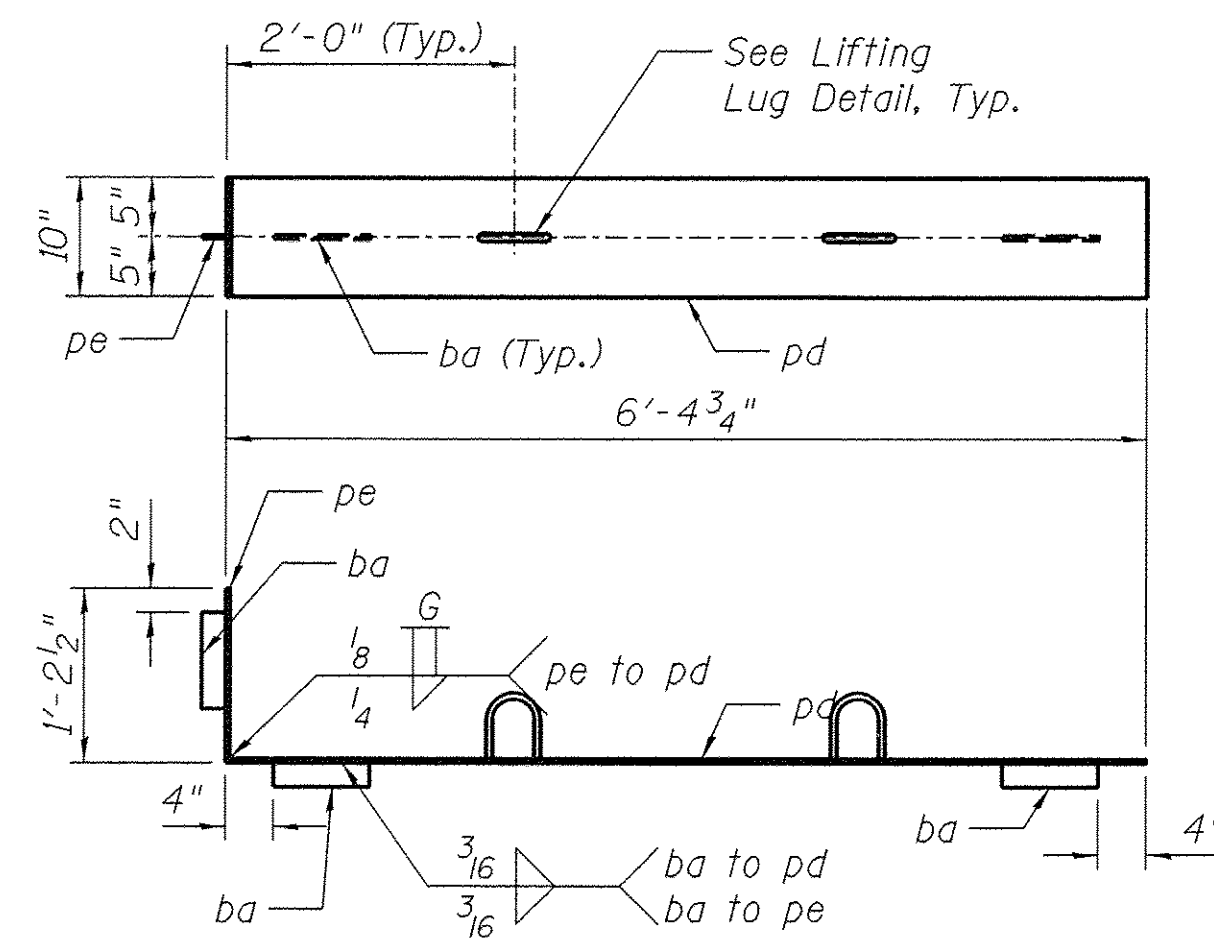
SHEET NO. 45 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	125
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



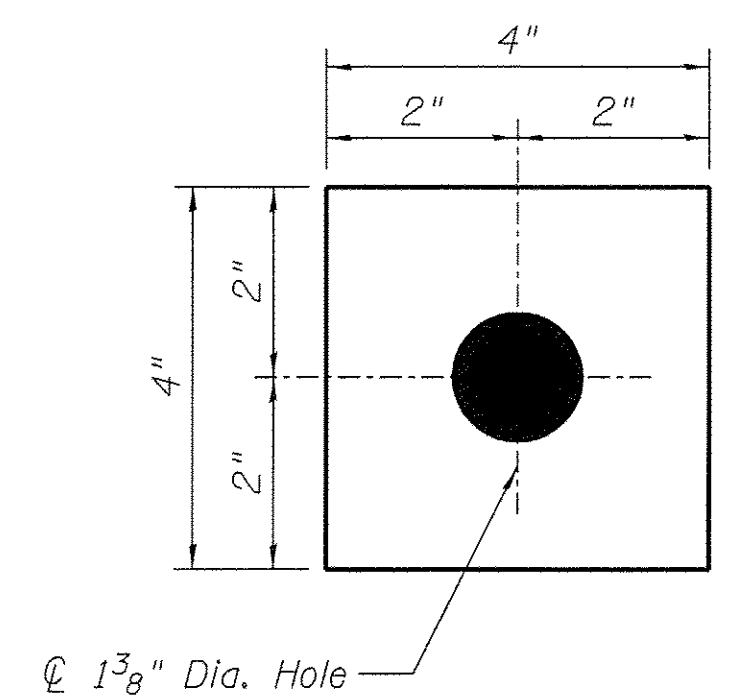
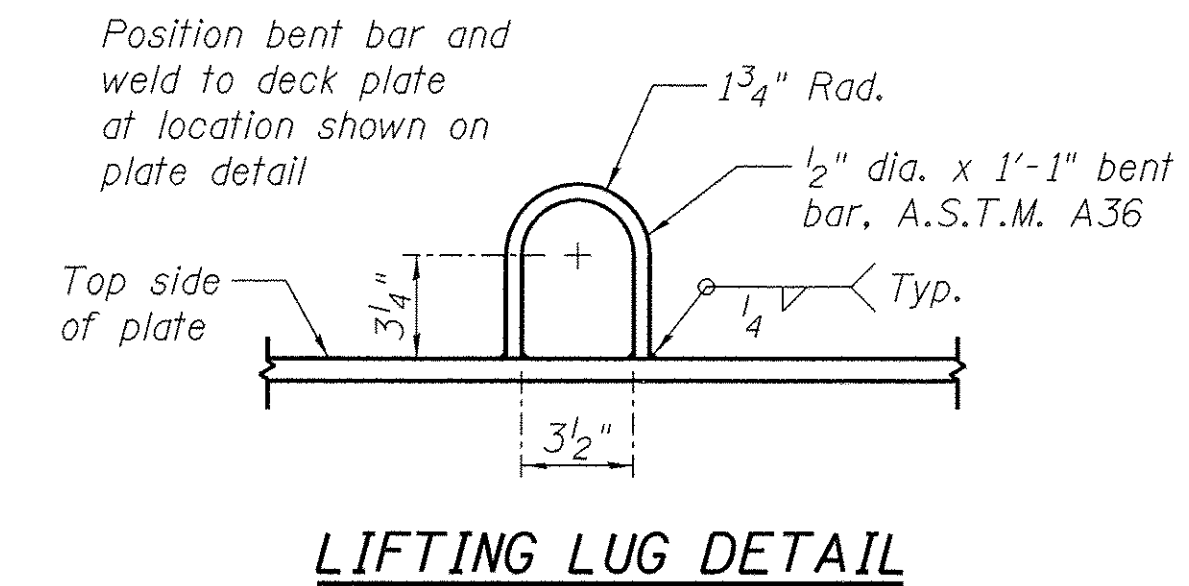
DECK PLATE - SDPI62.15-1 (6 REQ'D)

- 3 - Bars 2" x 3/8" x 0'-8" - ba
- 1 - PL 10" x 3/8" x 6'-4 3/4" - pd
- 1 - PL 10" x 3/8" x 1'-2 1/8" - pe
- 1 - PL 9" x 3/8" x 0'-10" - pf
- 2 - D-Rings
- Weight = 114 lbs.
- Galvanize after fabrication



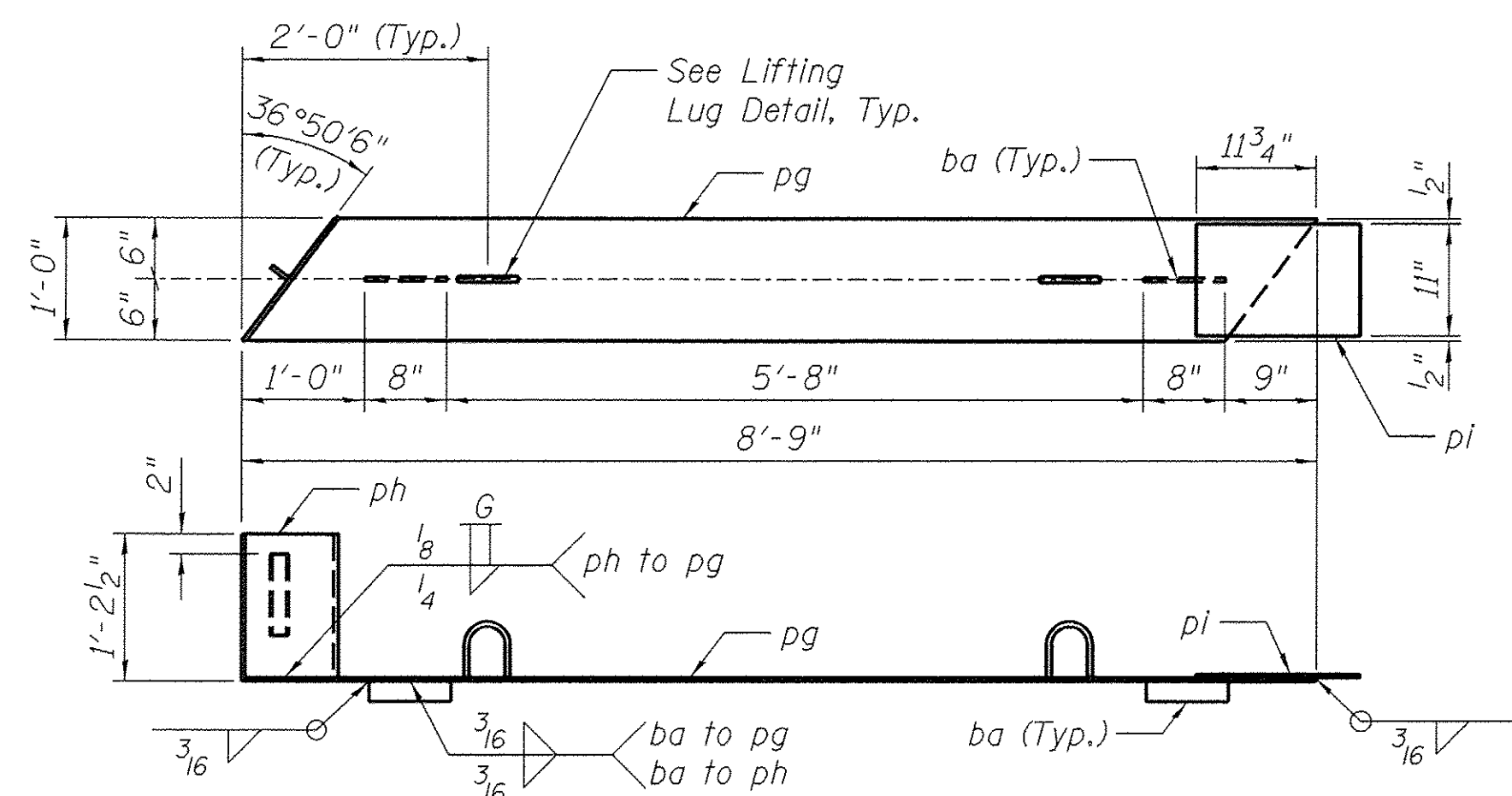
DECK PLATE - SDPI62.15-2 (6 REQ'D)

- 3 - Bars 2" x 3/8" x 0'-8" - ba
- 1 - PL 10" x 3/8" x 6'-4 3/4" - pd
- 1 - PL 10" x 3/8" x 1'-2 1/8" - pe
- 2 - D-Rings
- Weight = 103 lbs.
- Galvanize after fabrication



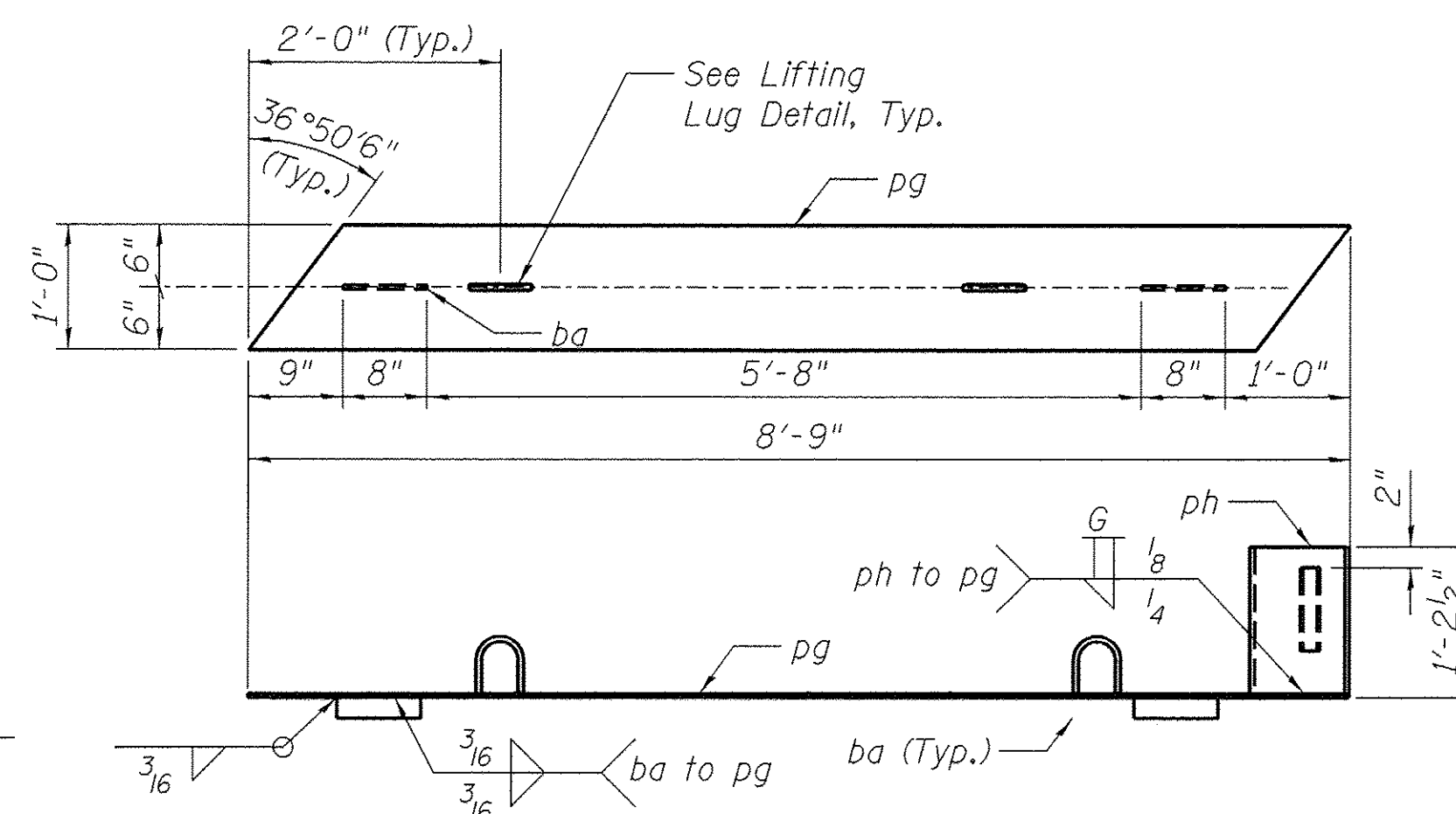
WASHER - W100

- 1 - Bar 4" x 3/4" x 0'-4"
- Weight = 3.4 lbs.
- Galvanize after fabrication



DECK PLATE - SDPI62.15-3 (6 REQ'D)

- 3 - Bars 2" x 3/8" x 0'-8" - ba
- 1 - PL 12" x 3/8" x 8'-9" - pg
- 1 - PL 15 1/4" x 3/8" x 1'-2 1/8" - ph
- 1 - PL 11" x 3/8" x 1'-4" - pi
- 2 - D-Rings
- Weight = 182 lbs.
- Galvanize after fabrication

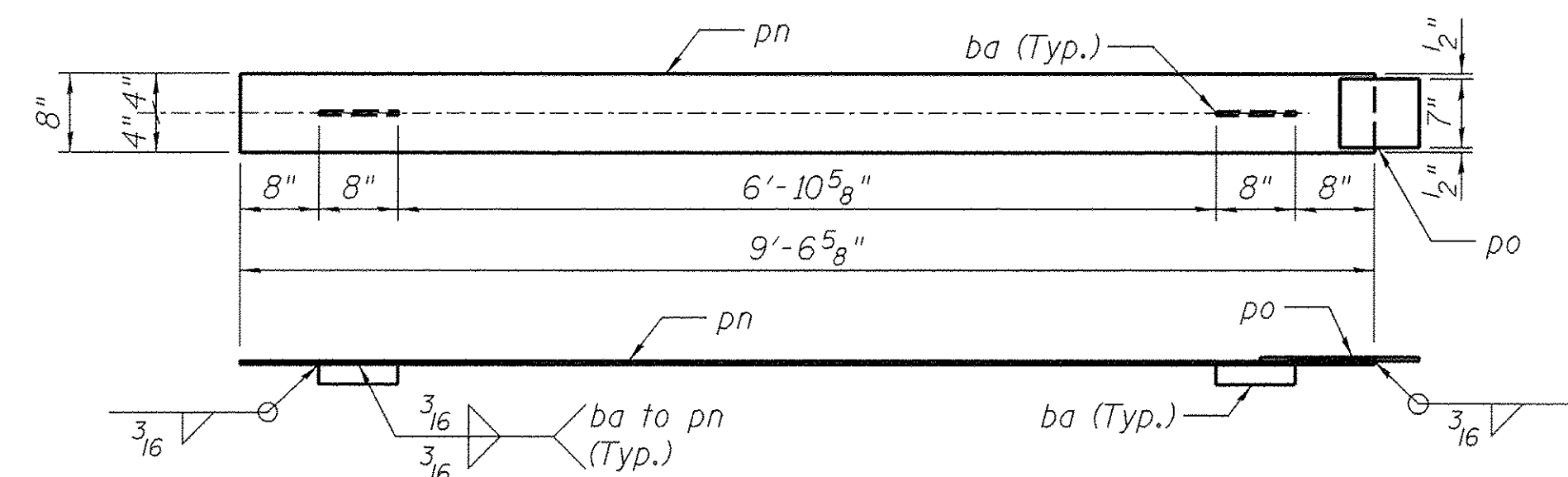


DECK PLATE - SDPI62.15-4 (4 REQ'D)

- 3 - Bars 2" x 3/8" x 0'-8" - ba
- 1 - PL 12" x 3/8" x 8'-9" - pg
- 1 - PL 15 1/4" x 3/8" x 1'-2 1/8" - ph
- 2 - D-Rings
- Weight = 163 lbs.
- Galvanize after fabrication

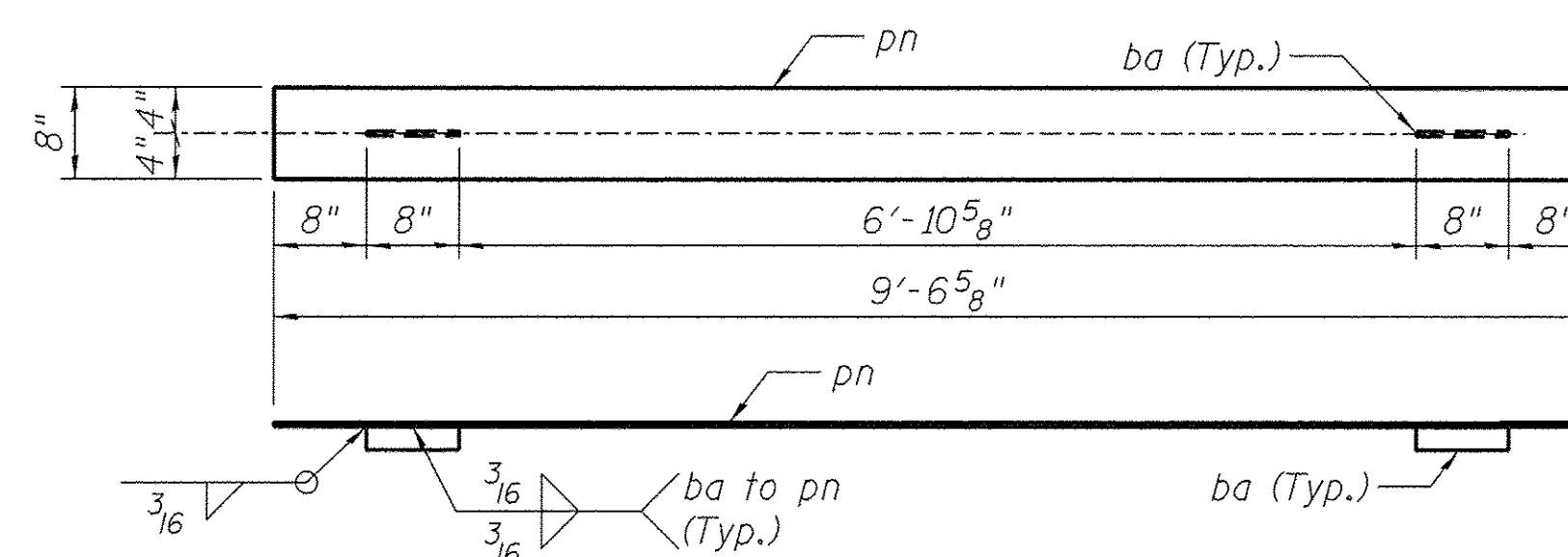
Notes:

- Structural Steel plates and bars shall meet the requirements of the current A.S.T.M. designation: A36.
- Shear Connector Studs shall meet the requirements of Section 7 of the current A.W.S. Structural Welding Code D1.1 for Grade 1020 Solid Flux filled Headed Studs.
- Fabrication and Arc Welding of Structural Steel shall be in accordance with the Specifications. Open Holes: As noted. Shop Paint: None.
- Shear Connector Studs shall be automatically end welded with complete fusion in accordance with Section 7 of the current A.W.S. Structural Welding Code D1.1.
- Members noted to be galvanized shall be galvanized after fabrication in accordance with the current A.S.T.M. designation: A123.
- After galvanizing all elements shall be free of fins, abrasions, rough or sharp edges and other surface defects.
- Cost of Deck Plates and Curb Plates shall be incidental to the Lump Sum cost of "Furnishing and Erecting Structural Steel".
- Cost of Washer W100 shall be incidental to the Lump Sum cost of "Precast Concrete Substructure".



CURB PLATE - SCP162.15-1 (42 REQ'D)

- 2 - Bars 2" x 3/8" x 0'-8" - ba
- 1 - PL 8" x 3/8" x 9'-6 5/8" - pn
- 1 - PL 7" x 3/8" x 1'-4" - po
- Weight = 113 lbs.
- Galvanize after fabrication



CURB PLATE - SCP162.15-2 (2 REQ'D)

- 2 - Bars 2" x 3/8" x 0'-8" - ba
- 1 - PL 8" x 3/8" x 9'-6 5/8" - pn
- Weight = 101 lbs.
- Galvanize after fabrication

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

dw:\sp1-svr\386.hanson.dom\hanson_projects\Documents\09Jobs\09L0105\CAD-PhaseII\Struct\Sheet\0489L0105-Misc_Details_2

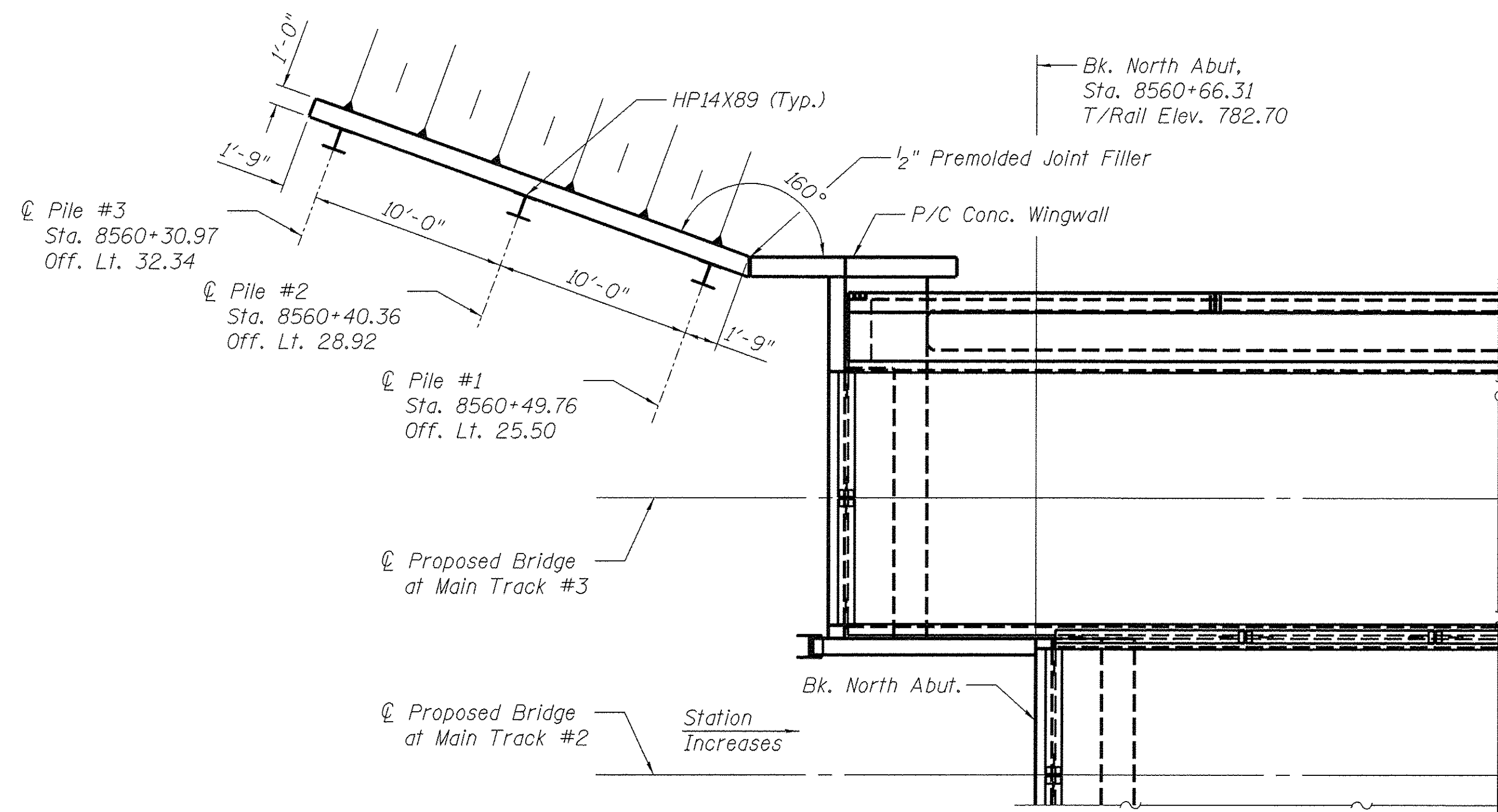
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	CHECKED - MAF	REVISIONS -
PLOT SCALE = 1:4.0000 1" = 16'	DRAWN - GTJ	REVISIONS -
PLOT DATE = 9/8/2015	CHECKED - MAF	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS STEEL DETAILS (SHEET 2 OF 2)
STRUCTURE 048-9928**

SHEET NO. 46 OF 52 SHEETS

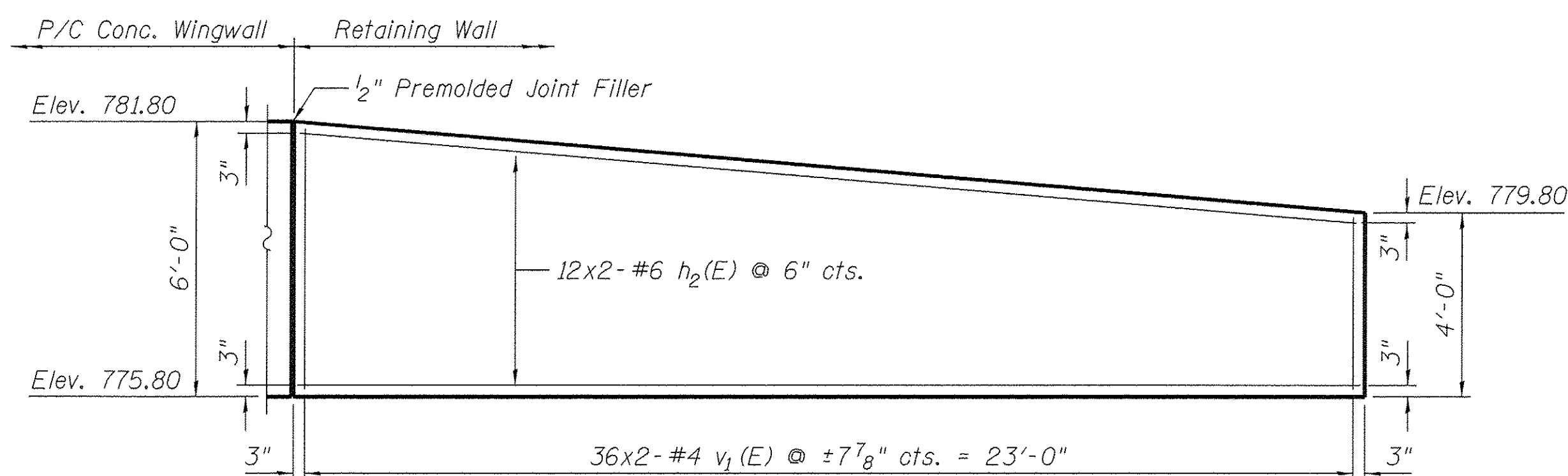
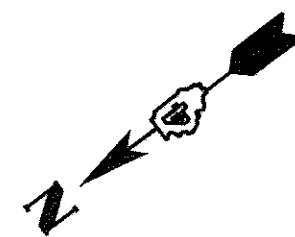
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	126
			CONTRACT NO. 89417	
ILLINOIS FED. AID PROJECT				



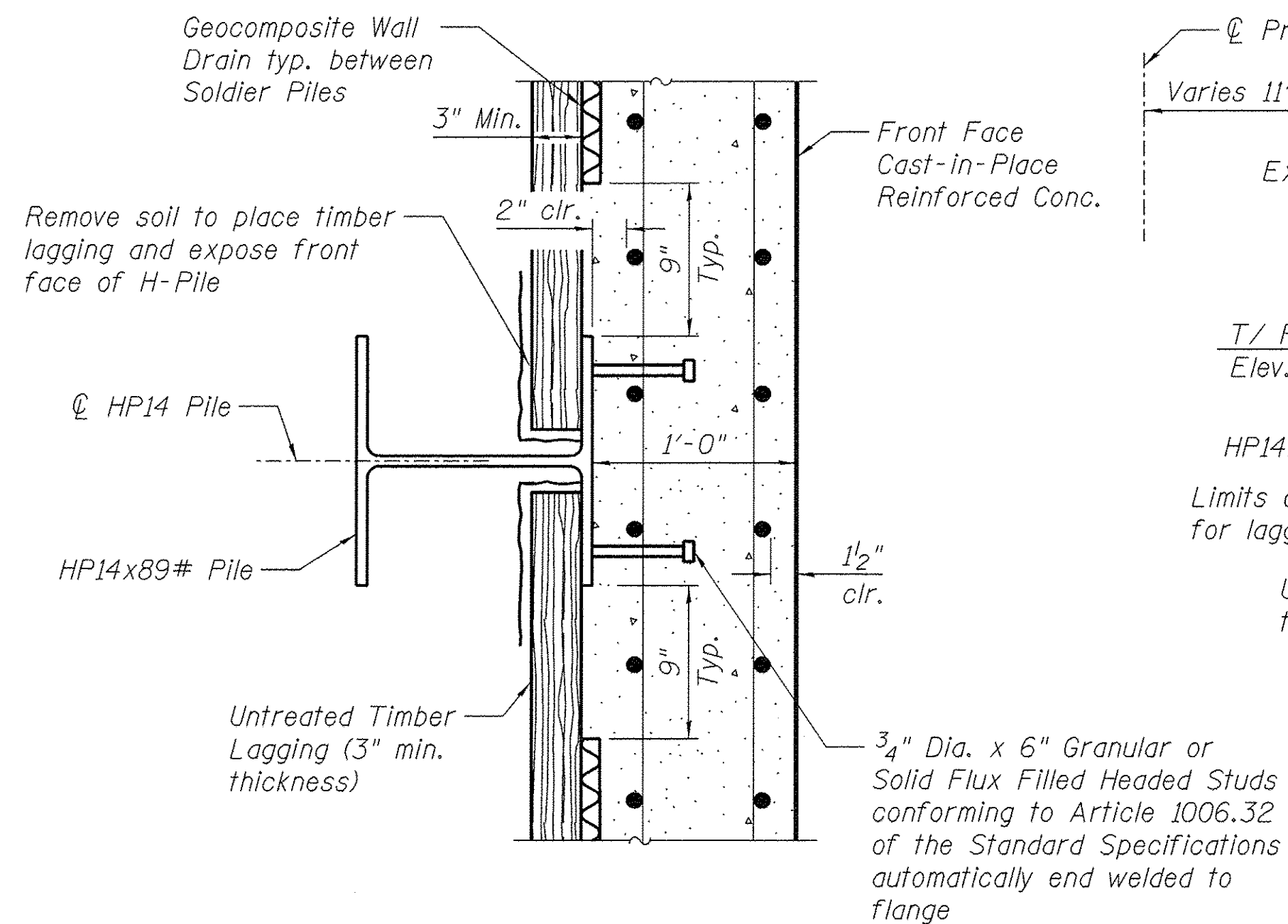
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂ (E)	24	#6	23'-2"	—
v ₁ (E)	72	#4	5'-8"	—
Structure Excavation		Cu. Yd.	20	
Concrete Structures		Cu. Yd.	4.4	
Pipe Underdrain for Structures 4"		Foot	35	
Geocomposite Wall Drain		Sq. Yd.	8	
Reinforcement Bars, Epoxy Coated		Pound	1,110	
Untreated Timber Lagging		Sq. Ft.	80	
Stud Shear Connectors		Each	48	

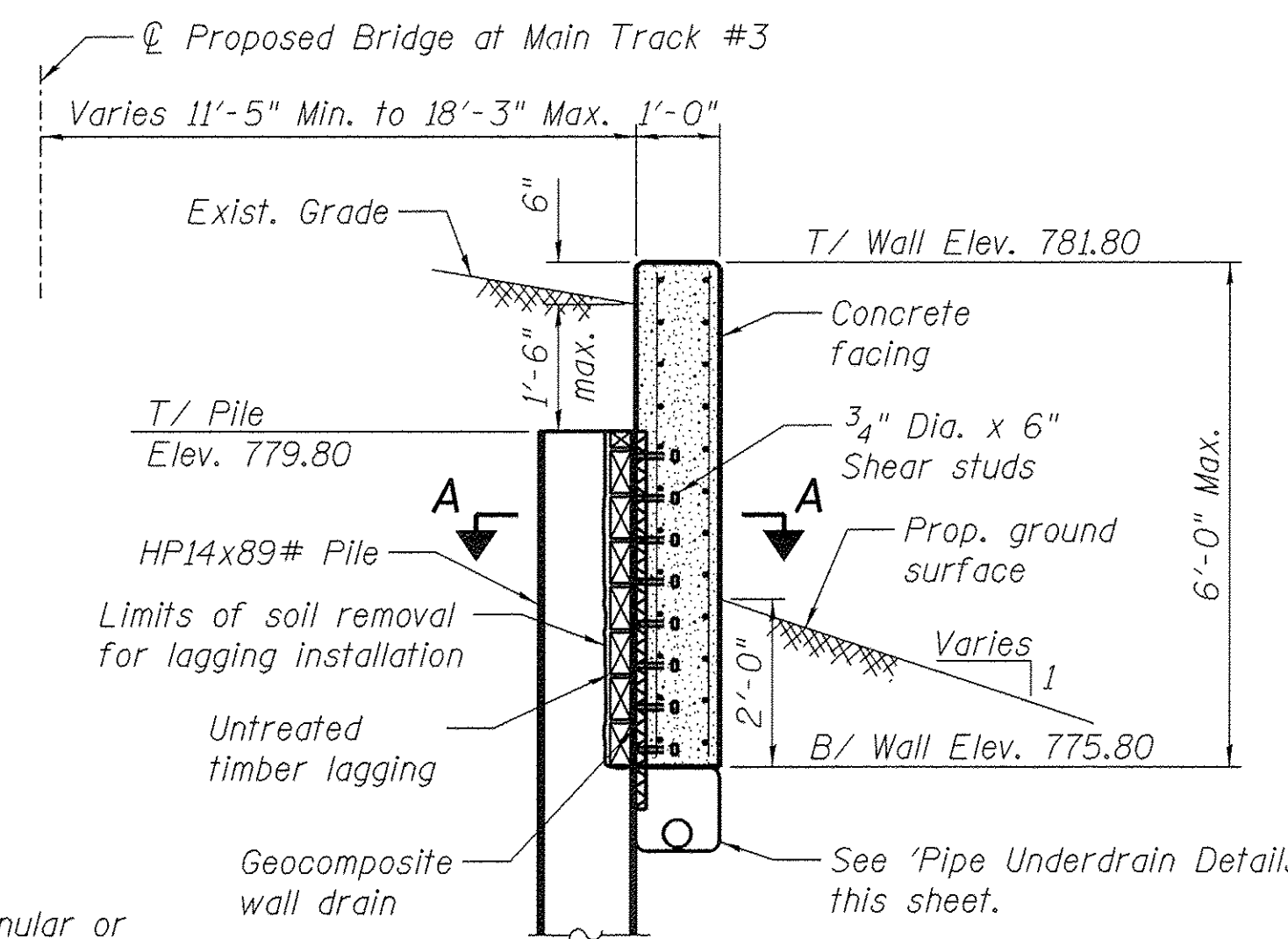
PLAN - RETAINING WALL



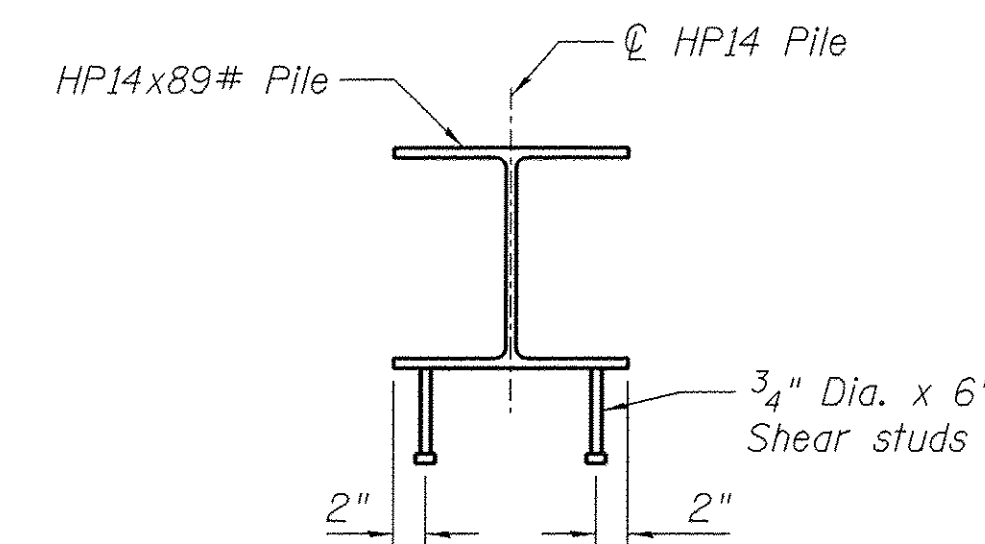
ELEVATION - RETAINING WALL



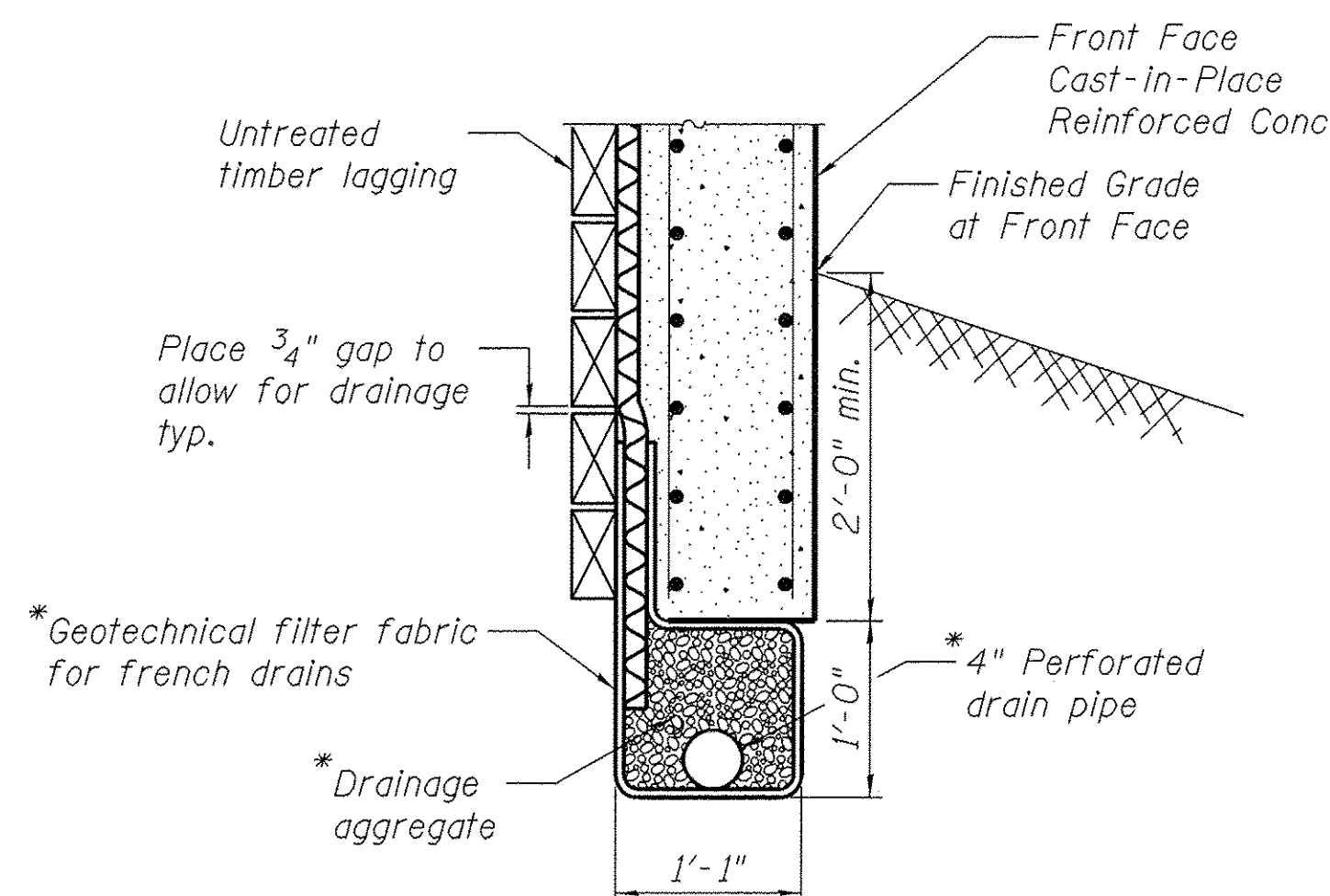
SECTION A-A



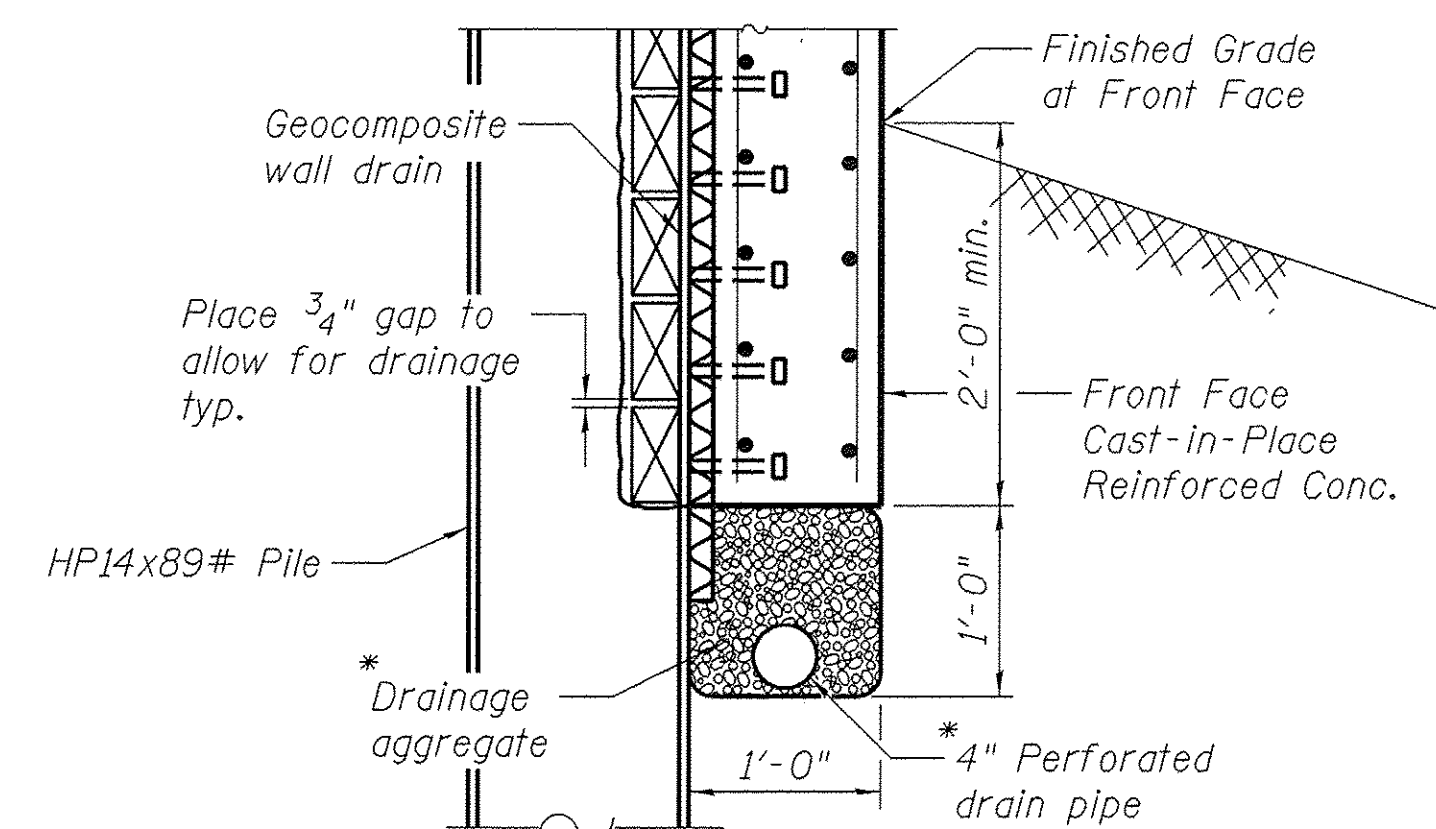
SECTION THRU RETAINING WALL



HP14 PILE DETAIL



BETWEEN PILES



AT HP14 PILES

PIPE UNDERDRAIN DETAILS

* Included in the cost of Pipe Underdrains for Structures

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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USER NAME	= andr-00846
DESIGNED	- JEC
CHECKED	- MAF
DRAWN	- GTJ
CHECKED	- MAF
PLOT SCALE	= 0:1.0000 1' = 1"
PLOT DATE	= 9/8/2015

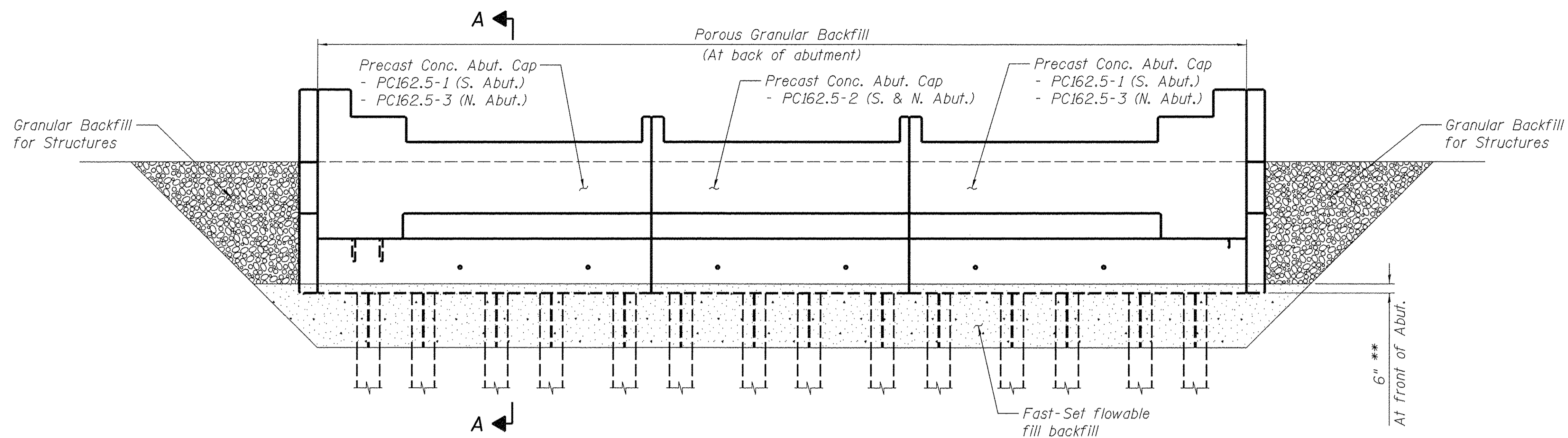
DESIGNED	- JEC	REVISED	-
CHECKED	- MAF	REVISED	-
DRAWN	- GTJ	REVISED	-
CHECKED	- MAF	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS
STRUCTURE 048-9928

SHEET NO. 47 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	127
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking South)

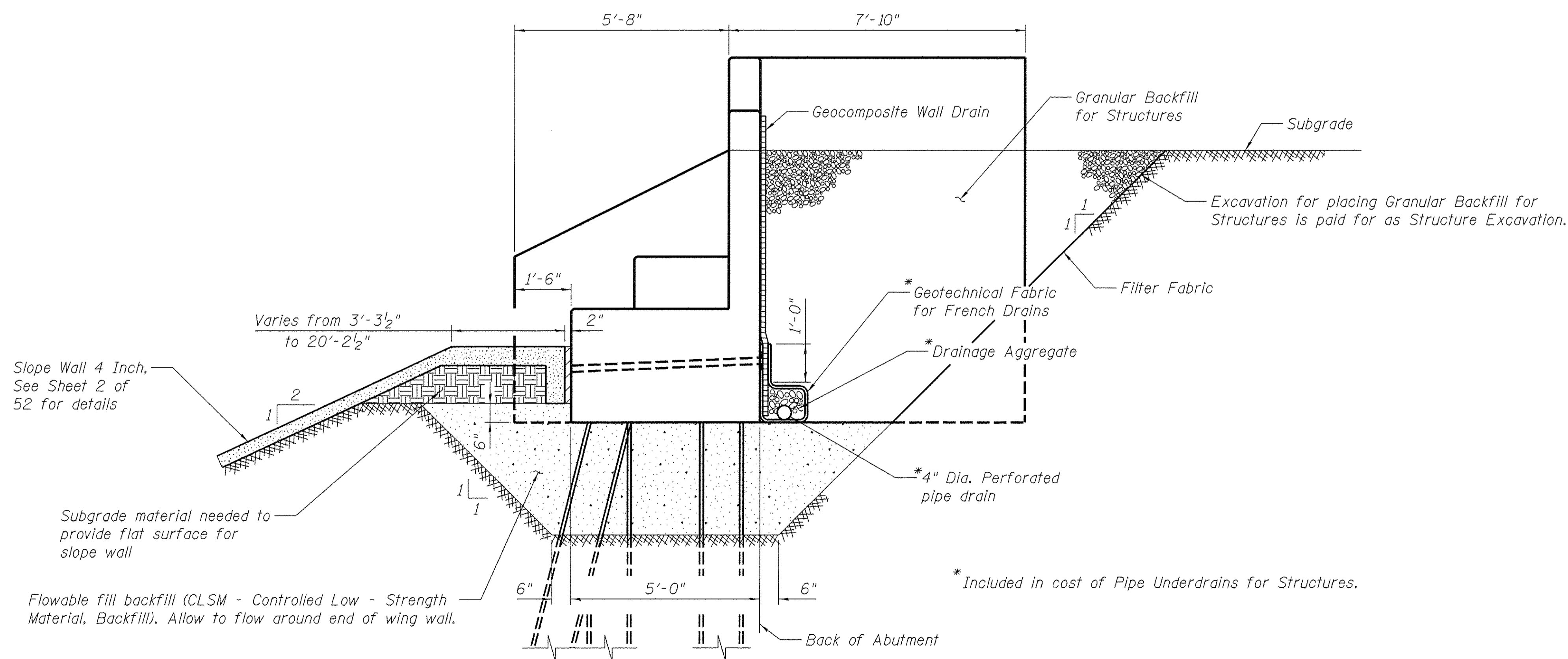
** CLSM shall be flush with bottom of cap at back of Abutment.

BILL OF MATERIAL - STAGE III

ITEM	UNIT	TOTAL
Geocomposite Wall Drain	Sq. Yd.	60
Controlled Low-Strength Material	Cu. Yd.	50
Granular Backfill for Structures	Cu. Yd.	130
Pipe Underdrain for Structures, 4"	Foot	82

BILL OF MATERIAL - STAGE IV

ITEM	UNIT	TOTAL
Geocomposite Wall Drain	Sq. Yd.	110
Controlled Low-Strength Material	Cu. Yd.	70
Granular Backfill for Structures	Cu. Yd.	240
Pipe Underdrain for Structures, 4"	Foot	124



SECTION A-A
(S. Abut. shown, N. Abut. Opp. Hand)

DESIGNED - JEC 5-22-15
DRAWN - GTJ 5-22-15
REVIEWED - MAF 5-29-15

px:\spi-svr\305.hanson.dom\hanson_projects\Documents\09Jobs\09L0105\CAD-Phase1\Struct\Sheet\0409L0105-Abut.Backfill



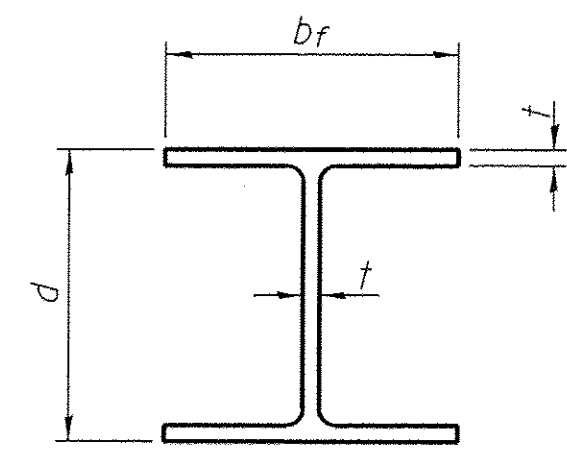
USER NAME = andr00846	DESIGNED - JEC	REVISED -
PLOT SCALE = 4:0.0000 '1' / in.	CHECKED - MAF	REVISED -
PLOT DATE = 9/8/2015	DRAWN - GTJ	REVISED -
	CHECKED - MAF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT BACKFILL DETAILS
STRUCTURE 048-9928

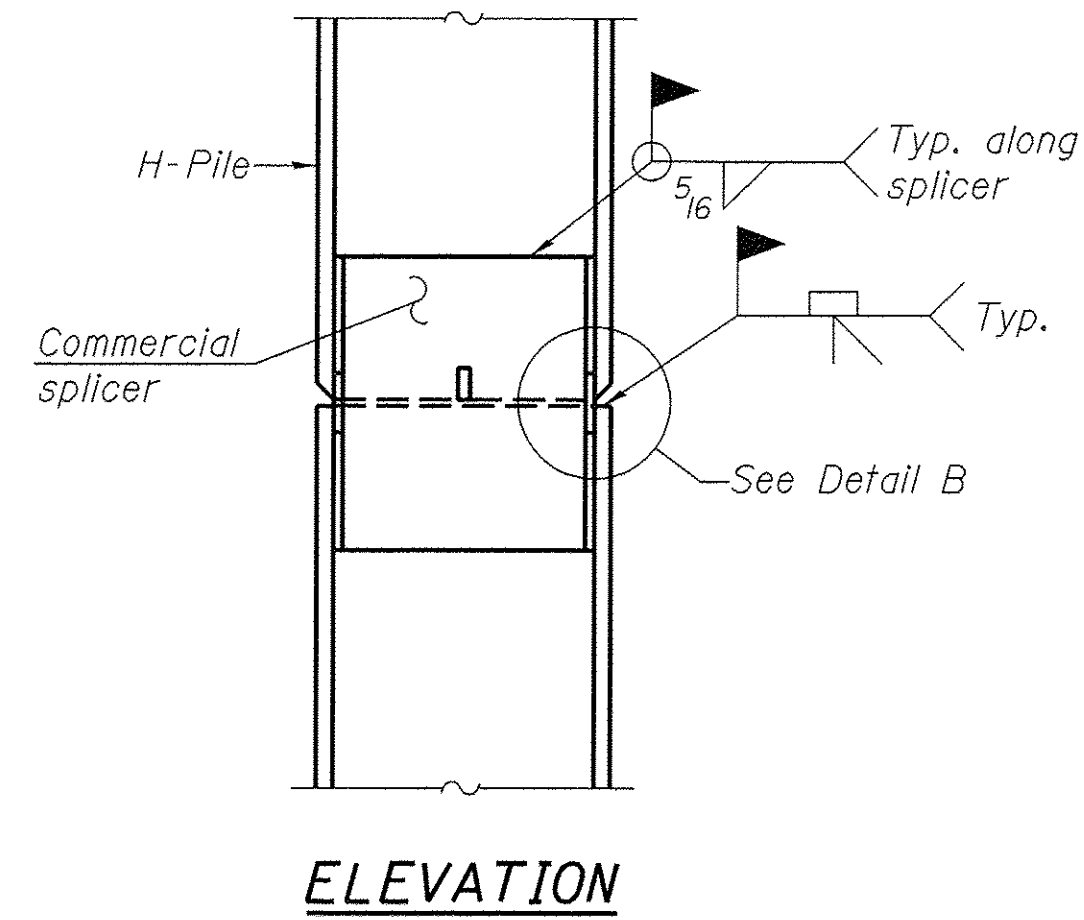
SHEET NO. 48 OF 52 SHEETS

F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 128
CONTRACT NO. 89417				
ILLINOIS FED. AID PROJECT				

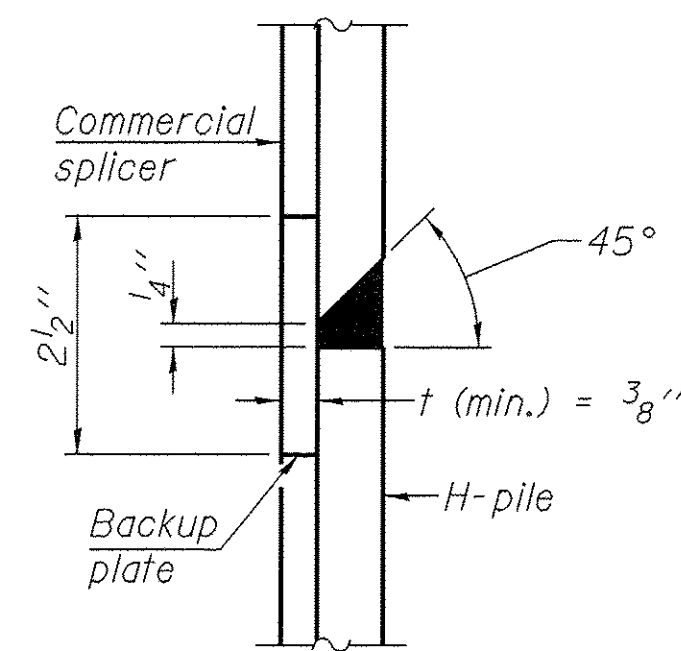


STEEL PILE TABLE

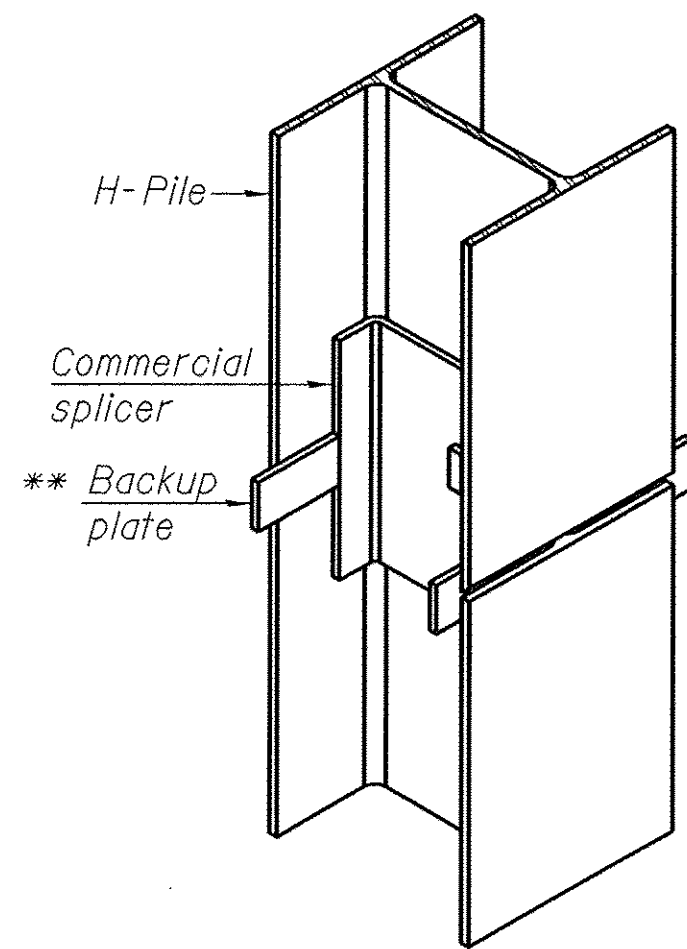
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 ¹ / ₄ "	14 ⁷ / ₈ "	1 ³ / ₁₆ "	30"
x89	13 ⁷ / ₈ "	14 ³ / ₄ "	5 ⁹ / ₈ "	30"



ELEVATION

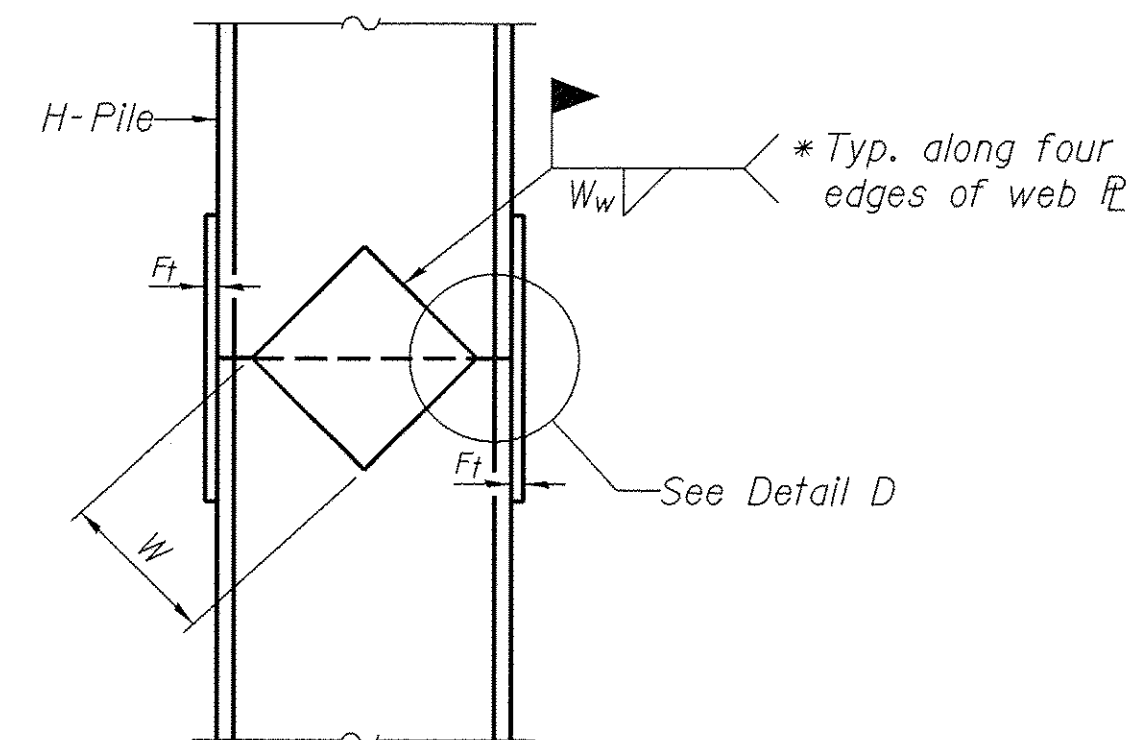


DETAIL "B"

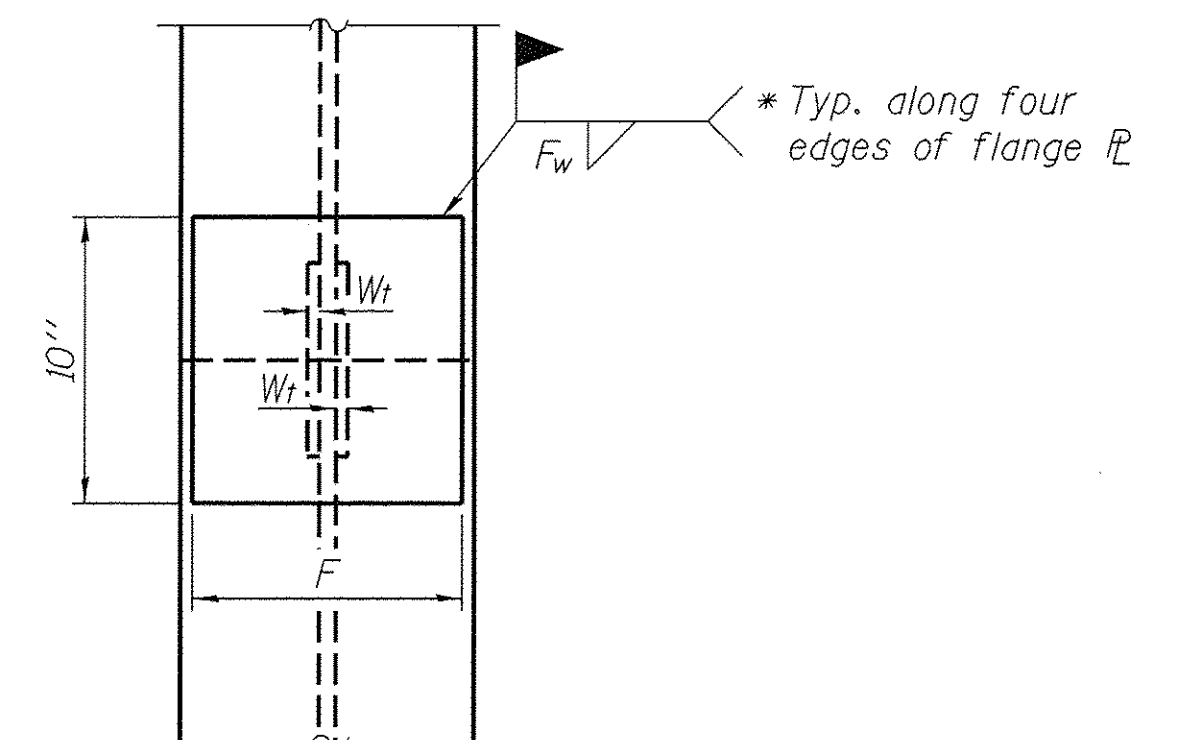


ISOMETRIC VIEW

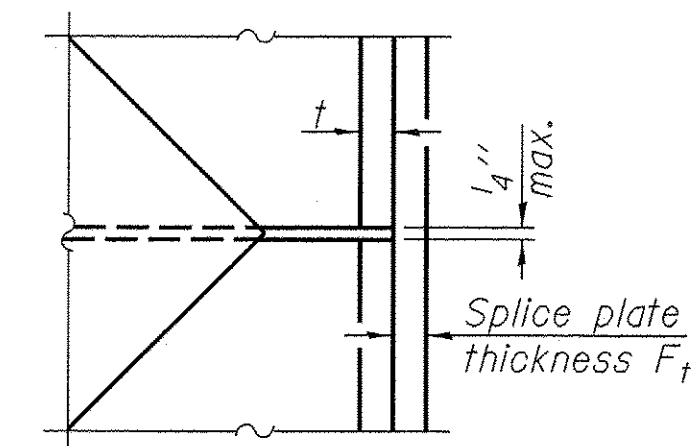
WELDED COMMERCIAL SPLICE



ELEVATION

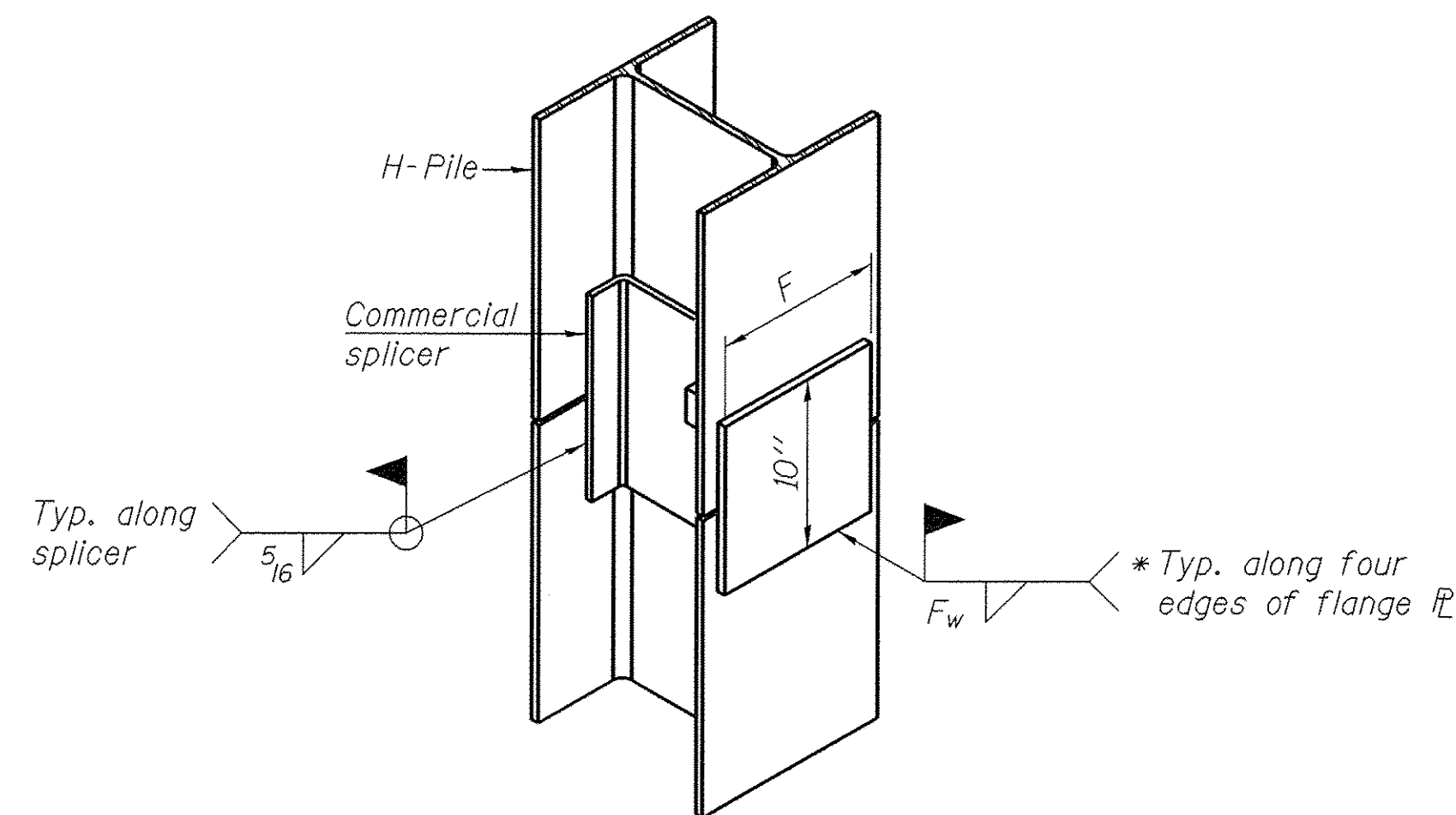


END VIEW



DETAIL D

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 ¹ / ₂ "	1"	7 ⁷ / ₈ "	7 ³ / ₄ "	5 ⁹ / ₈ "	1 ¹ / ₂ "
x89	12 ¹ / ₂ "	3 ³ / ₄ "	11 ¹ / ₁₆ "	7 ³ / ₄ "	5 ⁹ / ₈ "	1 ¹ / ₂ "



ISOMETRIC VIEW

WELDED PLATE FIELD SPLICE

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

DESIGNED - JEC 5-22-15
DRAWN - GTJ 5-22-15
REVIEWED - MAF 5-23-15



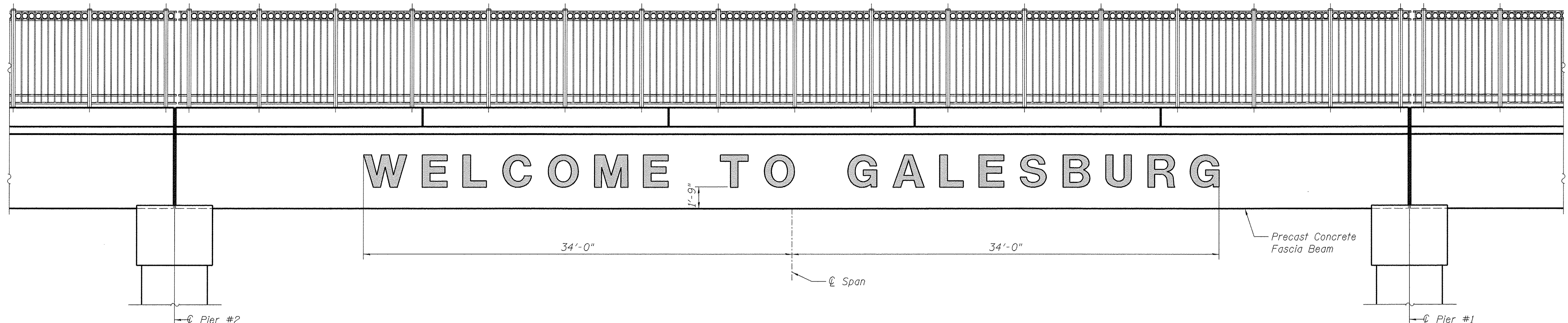
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PLOT SCALE = 0:1.0000 ' = 1"	CHECKED - MAF	REVISED -
PLOT DATE = 9/8/2015	DRAWN - GTJ	REVISED -
	CHECKED - MAF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE 048-9928

SHEET NO. 49 OF 52 SHEETS

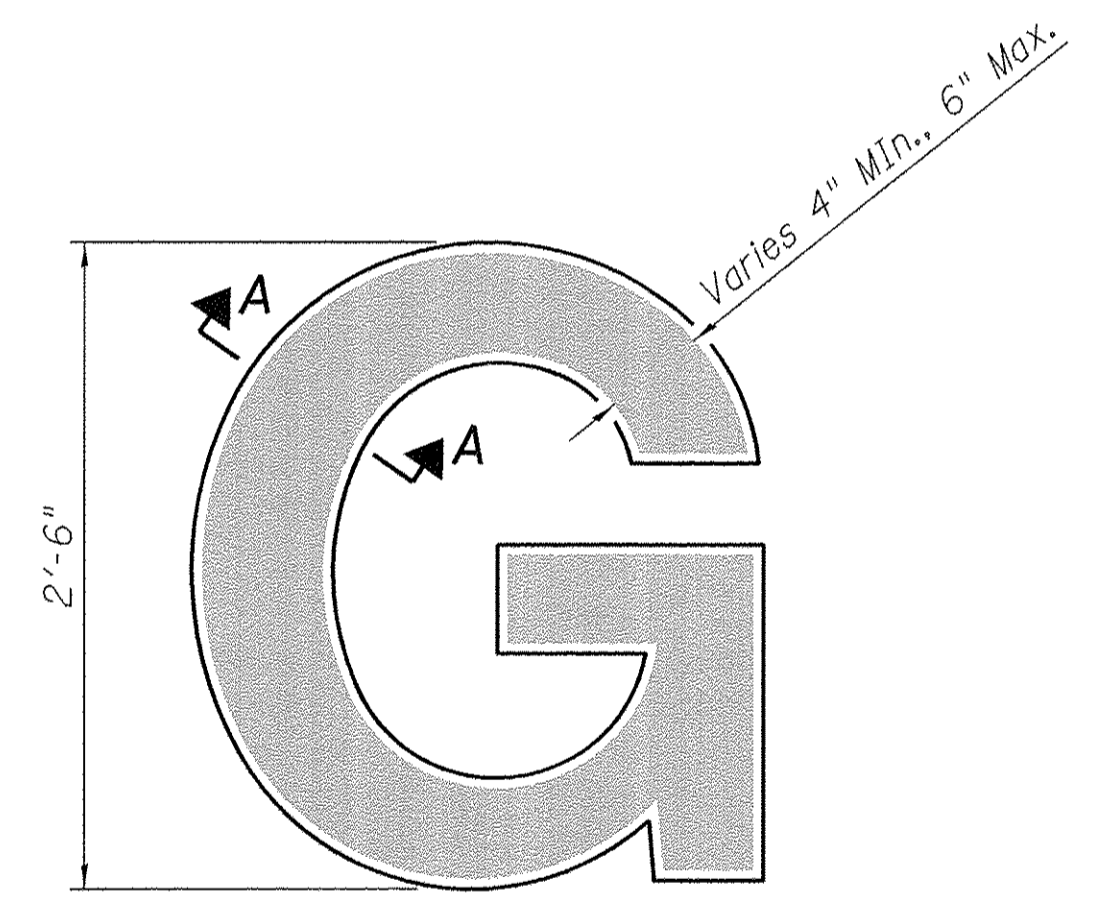
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	129
CONTRACT NO.				89417
ILLINOIS FED. AID PROJECT				



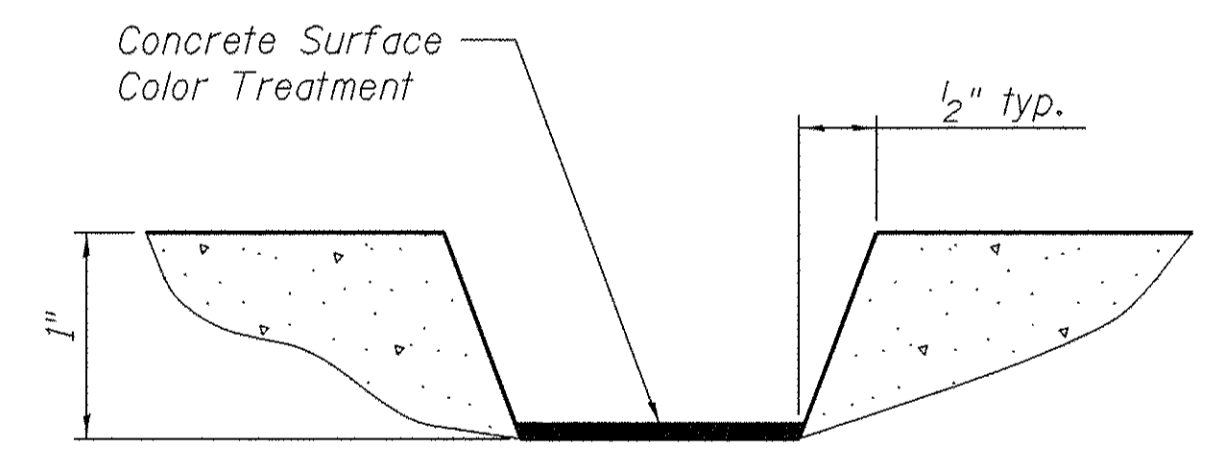
EAST SIDE ELEVATION

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Surface Color Treatment	Sq. Ft.	52



LETTERING DETAIL



SECTION A-A

- Notes:
1. Submit shop plans showing details of lettering prior to fabrication of form liners.
 2. See special provisions for Concrete Surface Color Treatment requirements
 3. Lettering shall be cast with the precast fascia beam and included in the cost of Precast Prestressed Concrete Fascia Beam.

DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

p:\spi-svr\306.hanson.dom\Hanson Projects\Documents\09Jobs\09L0105\CAD-PhaseII\Struct\Sheet\0409L0105-Beam_Aesthetics



USER NAME = ande00846	DESIGNED - JEC	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED - MAF	REVISED -
PLOT DATE = 9/8/2015	DRAWN - GTJ	REVISED -
	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FASCIA BEAM AESTHETIC DETAILS
STRUCTURE 048-9928**

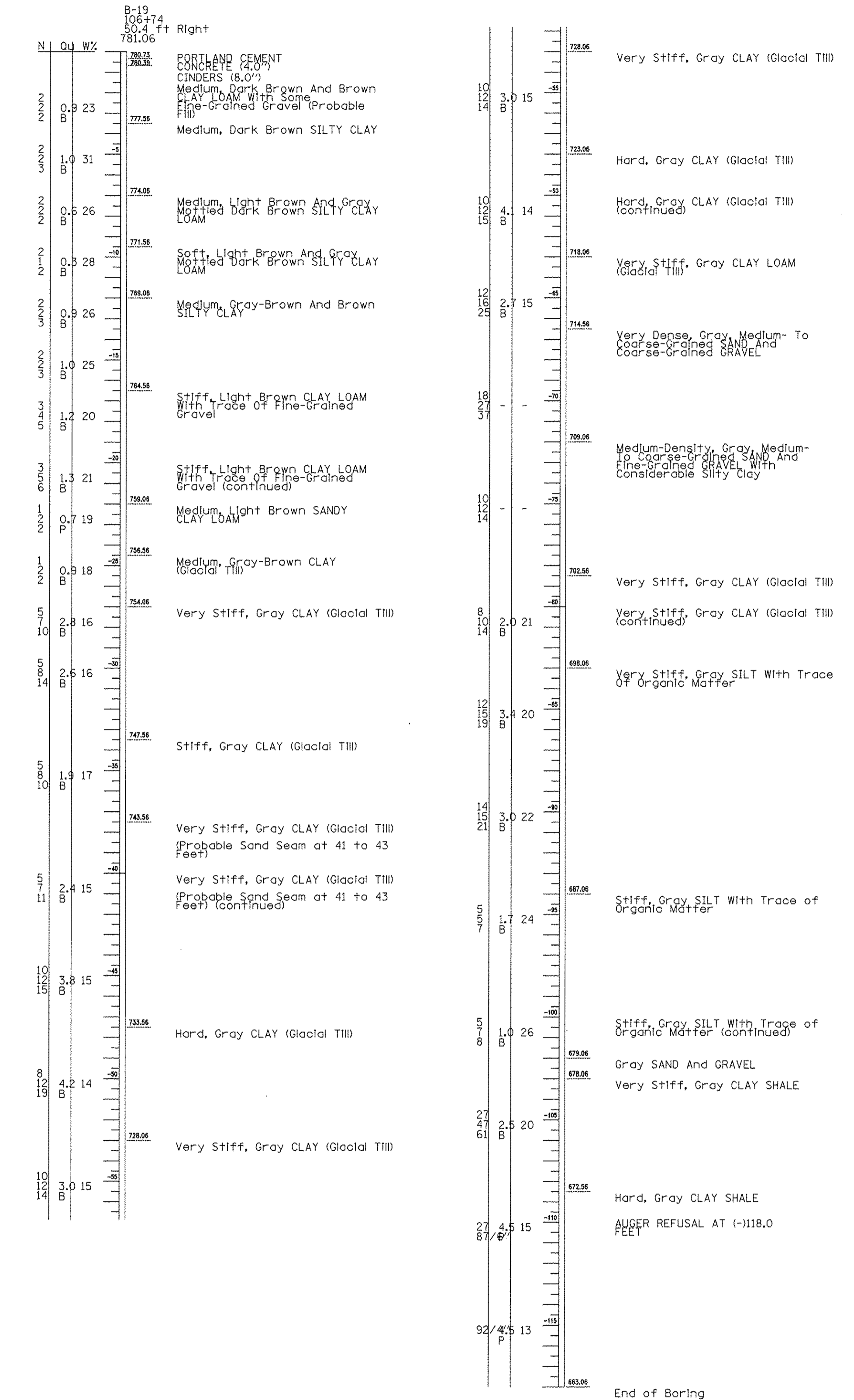
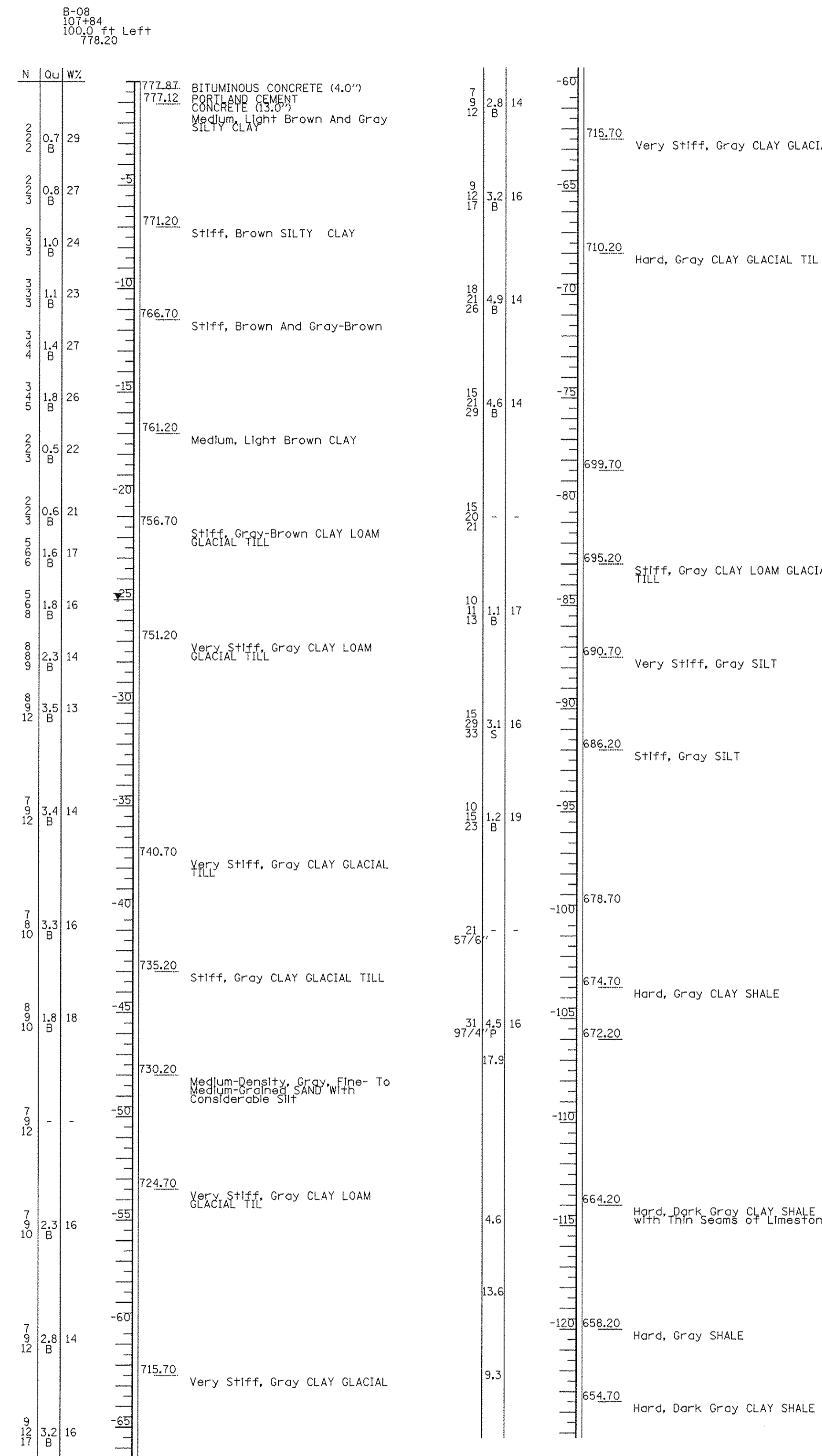
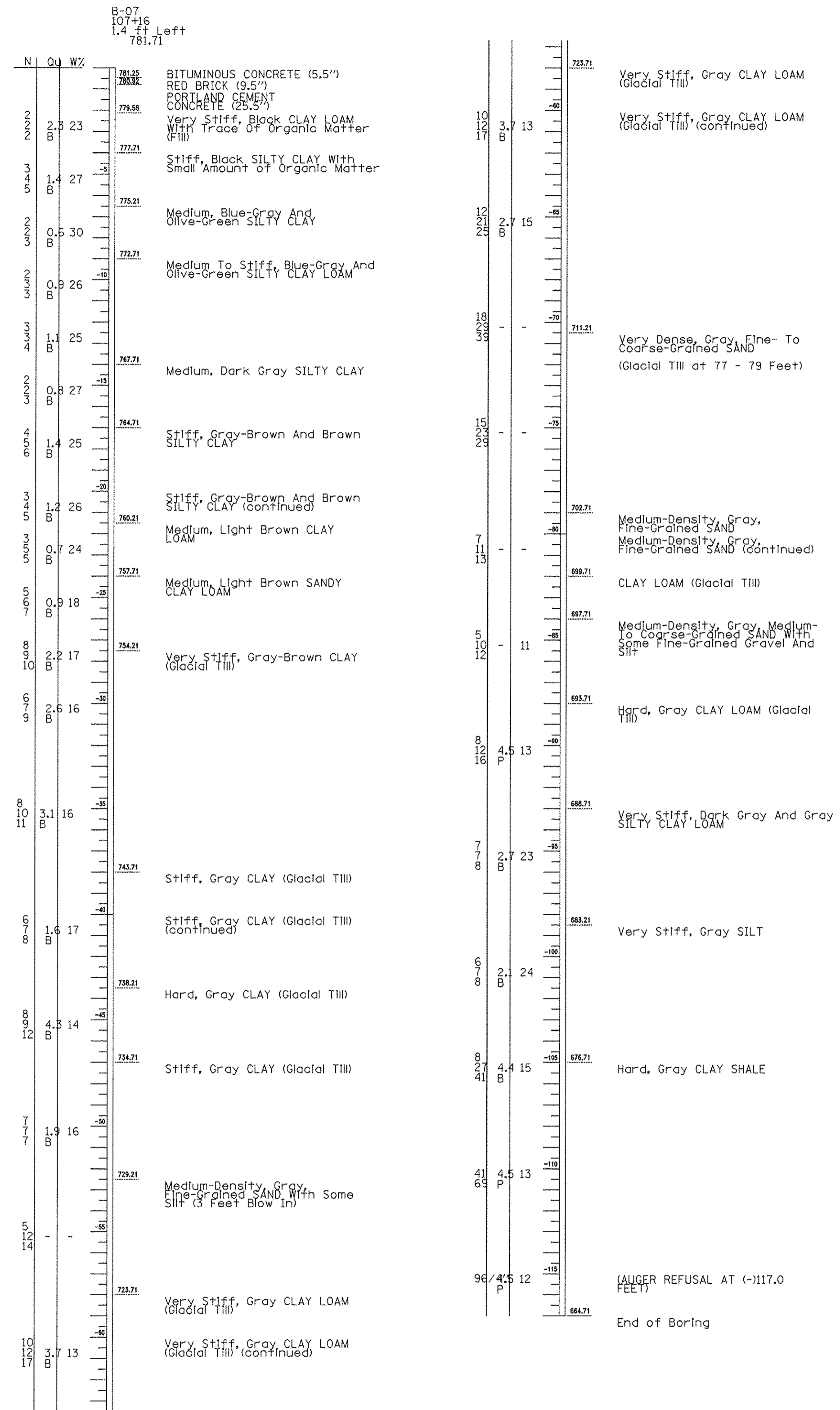
SHEET NO. 50 OF 52 SHEETS

F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 130
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89417	

B-07 BORING LOG

B-08 BORING LOG

B-19 BORING LOG



DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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PLOT DATE = 9/8/2015

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DRAWN - GTJ
CHECKED - MAF

REVISED -
REVISED -
REVISED -
REVISED -

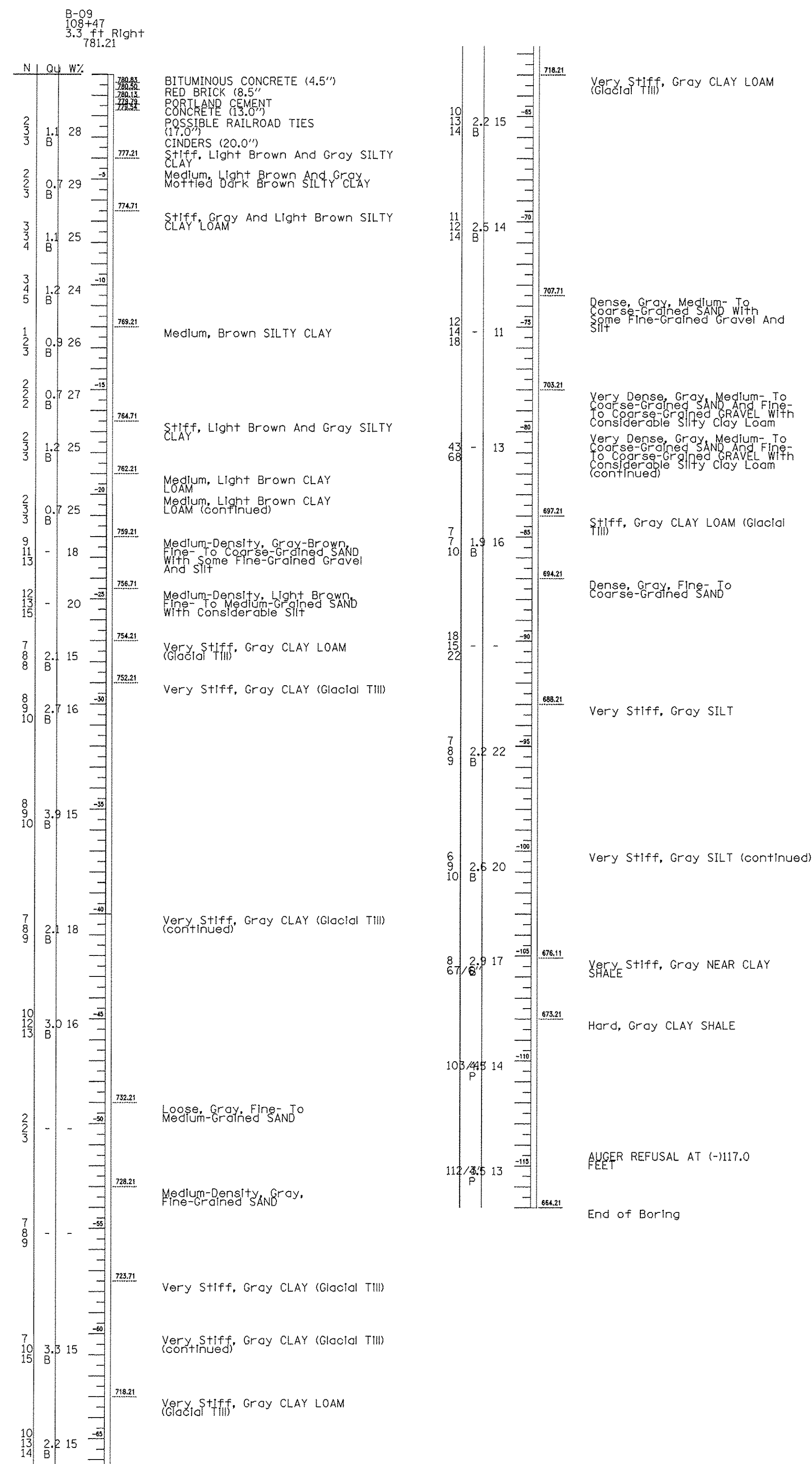
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 1 OF 2)
STRUCTURE 048-9928

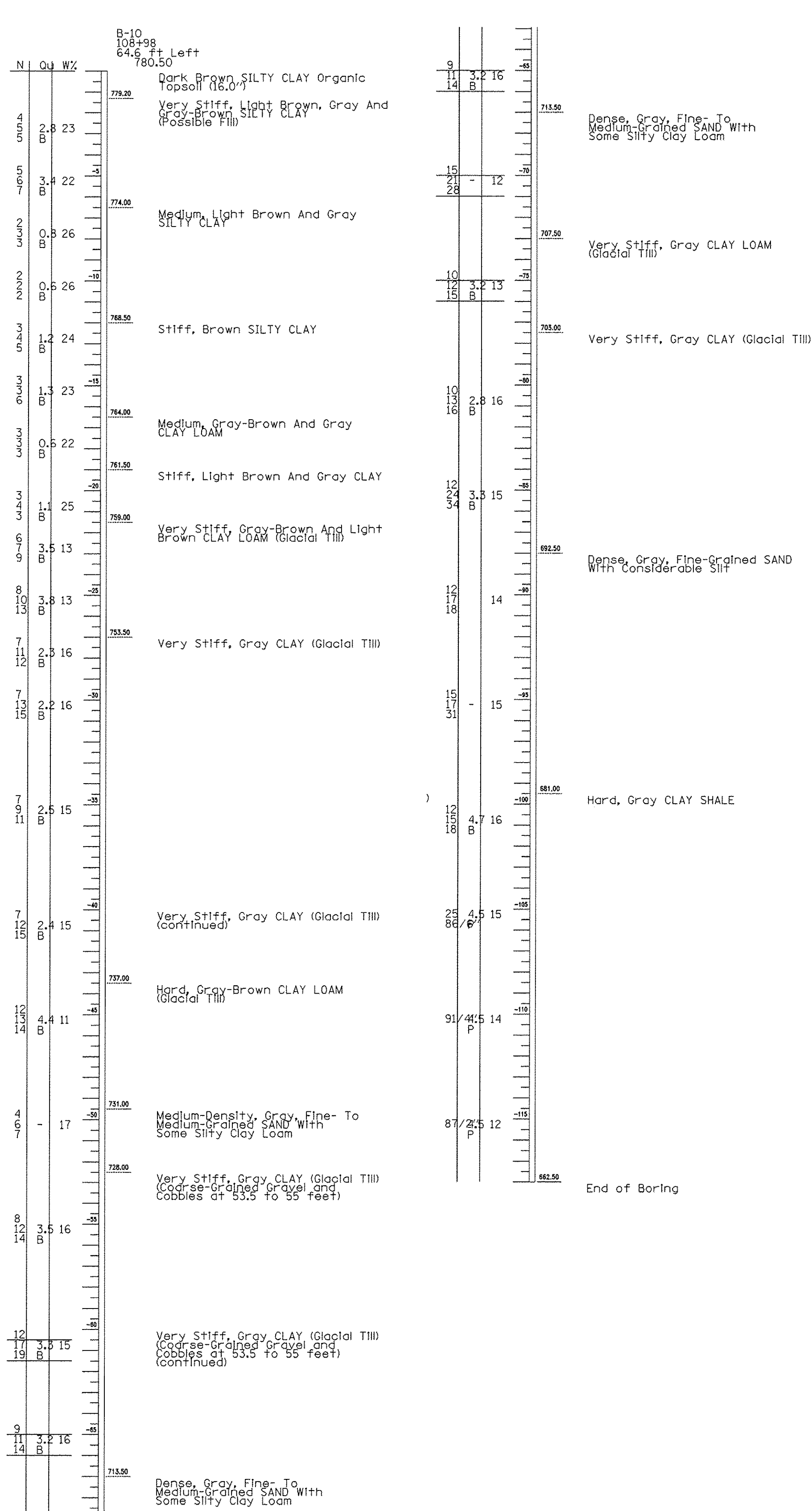
SHEET NO. 51 OF 52 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	131
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				

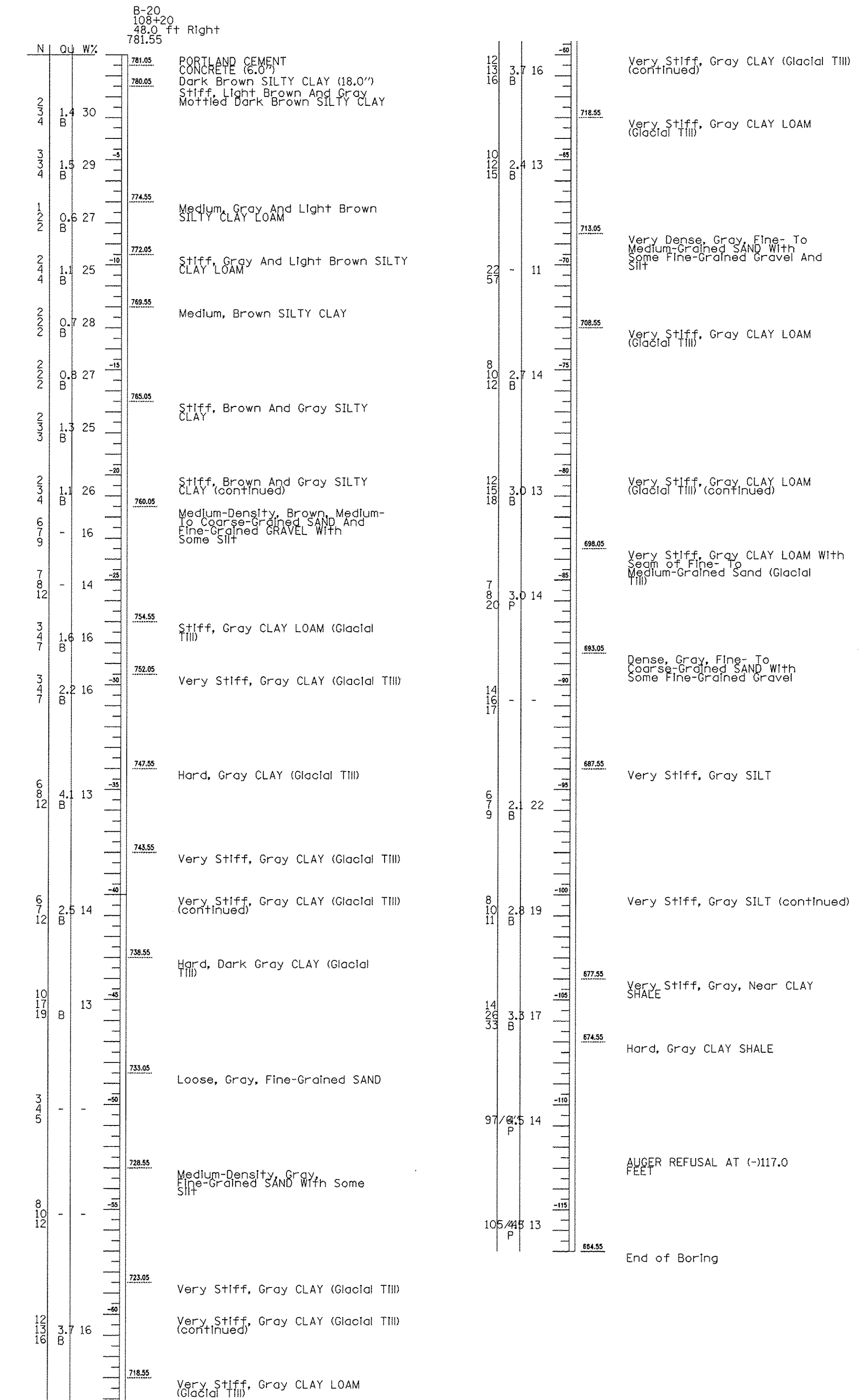
B-09 BORING LOG



B-10 BORING LOG



B-20 BORING LOG



DESIGNED	JEC	5-22-15
DRAWN	GTJ	5-22-15
REVIEWED	MAF	5-29-15

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	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS (SHEET 2 OF 2)
STRUCTURE 048-9928**

F.A.I. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 132
CONTRACT NO. 89417				ILLINOIS FED. AID PROJECT

SHEET NO. 52 OF 52 SHEETS

Benchmark:
 BM#225 - Chiseled square in Northeast corner of abandoned concrete sign foundation at the Northwest corner of E. Main St. and N. Chambers St.
 Elevation = 776.22

Existing Structure: None

Traffic Control:
 Traffic is to be maintained by detouring onto an alternate route.

Salvage: None

Railroad utilities may exist within BNSF right-of-way. Prior to the start of any construction or excavation, utility relocations will have to be coordinated with the BNSF.

STATION 103+30.00 TO 104+90.00
 BUILT 201_ BY
 CITY OF GALESBURG
 FAU RTE 6800 SEC. 05-00500-19-GS
 STRUCTURE NO. 048-8504

NAME PLATE

See Std. 515001
 Locate Name Plate as directed by the Engineer.

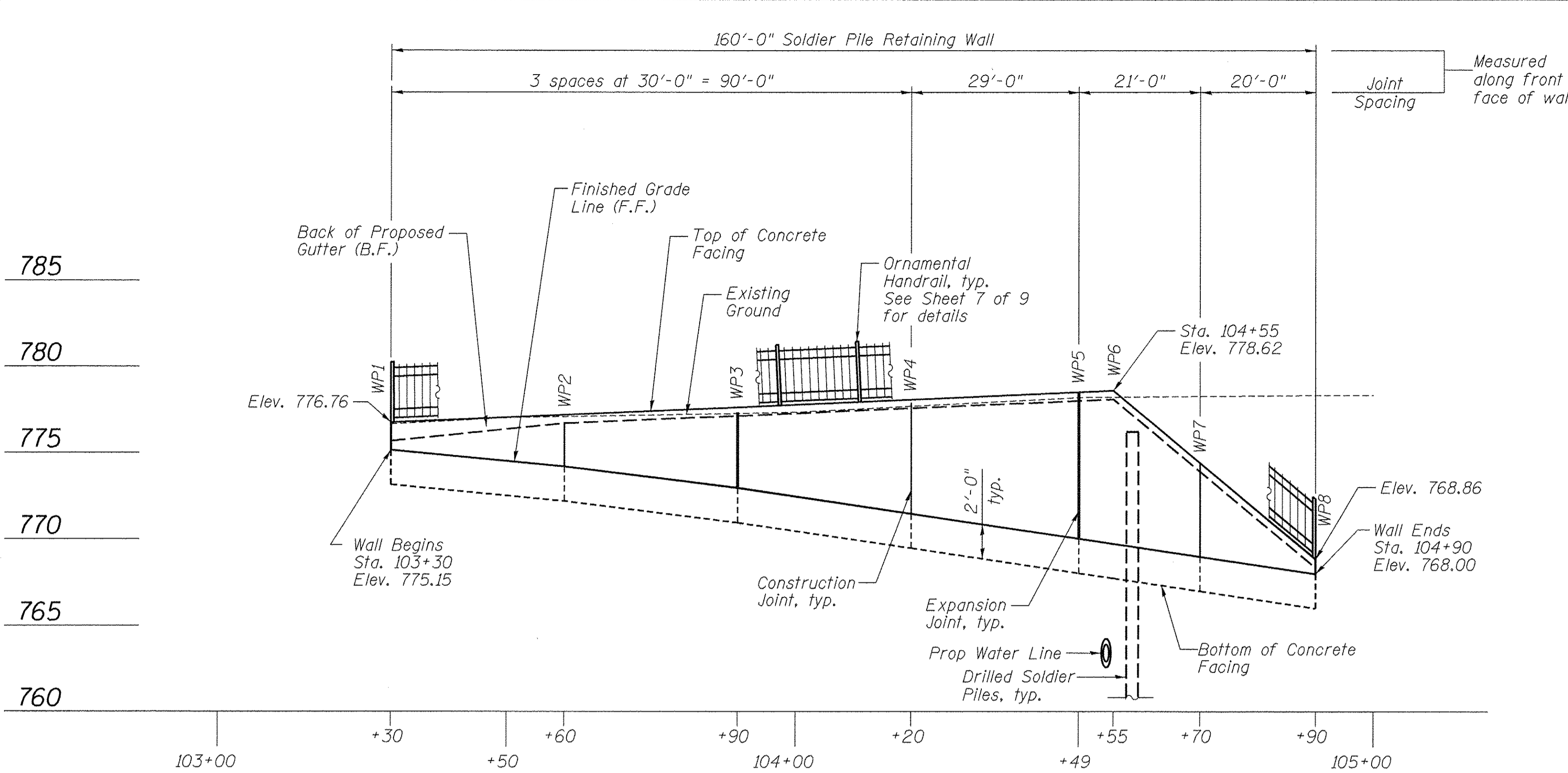
LEGEND

- F.F. Front Face
- B.F. Back Face
- Soil Boring Location
- WP Work Point
- F.G.L. Finished Grade Line
- Proposed Ditch Flow
- Proposed Water Line
- Existing Sanitary Sewer Line
- Existing Water Line
- Existing Electric Line
- Existing Telephone Line
- Existing Gas Line

WORK POINTS AND WALL ELEVATIONS

WP No.	East Main Street	Offset in Feet	Top of C.I.P. Wall Elev.	F.G.L. Elev.	Back of Gutter Elev.
1	103+30.00	47.74	776.76	775.15	775.68
2	103+60.00	47.53	777.21	774.21	776.71
3	103+90.00	47.32	777.65	772.97	777.15
4	104+20.00	47.11	778.10	771.49	777.60
5	104+49.00	46.91	778.53	770.05	778.03
6	104+55.00	46.87	778.62	769.75	778.12
7	104+70.00	46.77	774.43	769.00	773.93
8	104+90.00	46.63	768.86	768.00	768.36

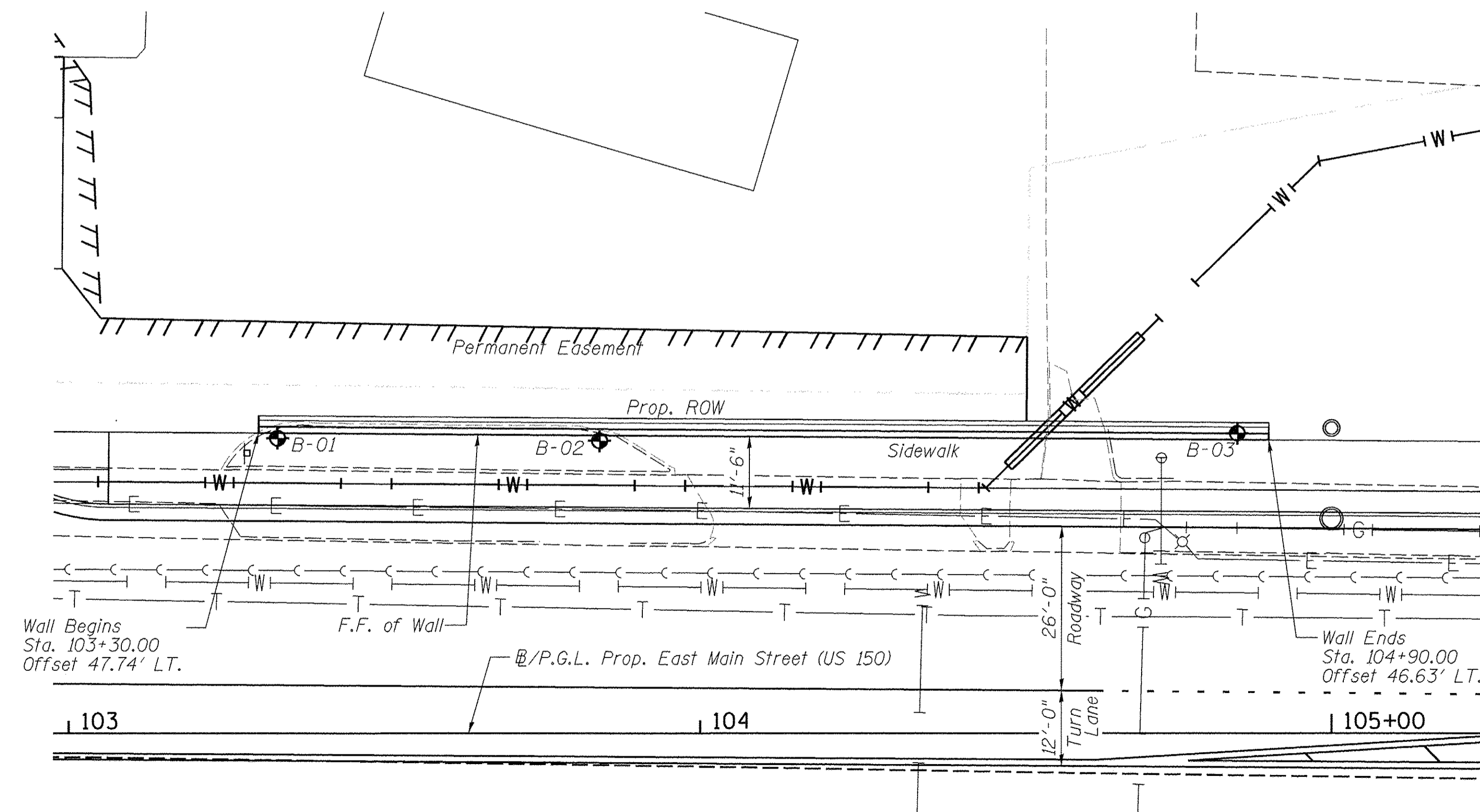
Note:
 All offsets are measured from @/P.G.L. East Main Street to front face of wall.



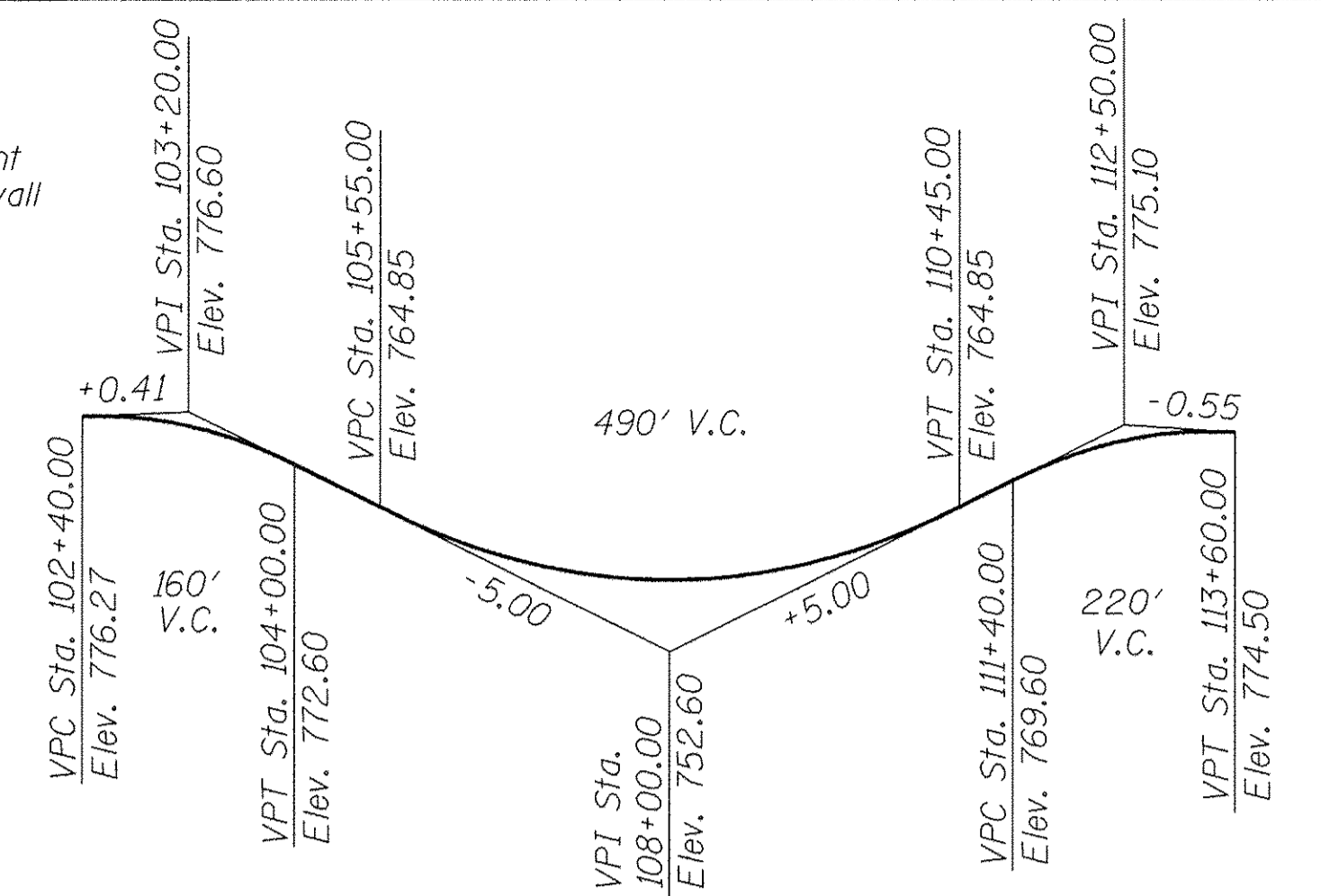
ELEVATION

(Looking at F.F. of Wall)

Note:
 Run top & bottom of C.I.P. wall at a constant slope between working points. (All longitudinal dimensions are measured along front face of wall.)



PLAN



PROFILE EAST MAIN STREET-FAU ROUTE 6800

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes and Total Bill of Material
- 3 Soldier Pile Layout
- 4 C.I.P. Concrete Facing
- 5 Wall Details
- 6 Reinforcement Details
- 7 Ornamental Handrail Details
- 8-9 Boring Logs

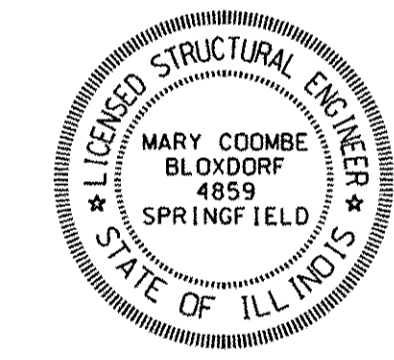
DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
 6th Edition with 2013 Interims

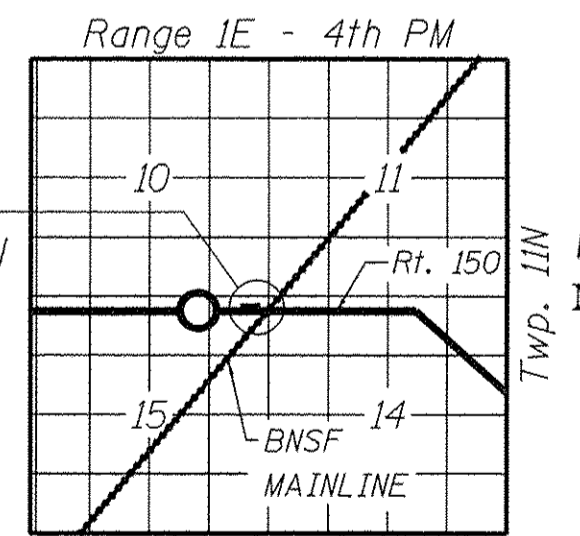
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (Soldier Piles)
 AASHTO M270 Grade 36



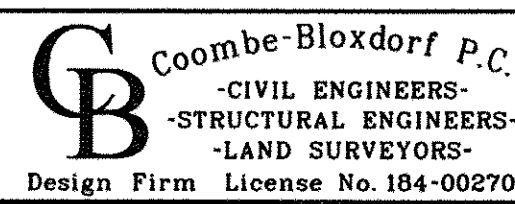
Mary Coombe Bloxdorf
 ILLINOIS STRUCTURAL NO. 4859
 EXPIRES 11/30/16
 DATE: 09/08/15



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
EAST MAIN STREET (US 150)
F.A.U. RT. 6800 SEC. (05-00500-19-GS)
KNOX COUNTY
LT. STA. 103+30.00 TO STA. 104+90.00
STRUCTURE NO. 048-8504

FILE NAME = p:\projects\306\hanson-donahanson_projects\Documents\03\Jobs\03\005\CAD\Phase1\Structure\Coombe-Bloxdorf_Sheet\0488504-89417-001-GPE
 CB PROJECT NO. 11858



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 CHECKED - MCB
 DRAWN - MMY
 CHECKED - MCB
 PLOT SCALE = 1/8" = 1' / 1/4"
 PLOT DATE = 9/8/2015

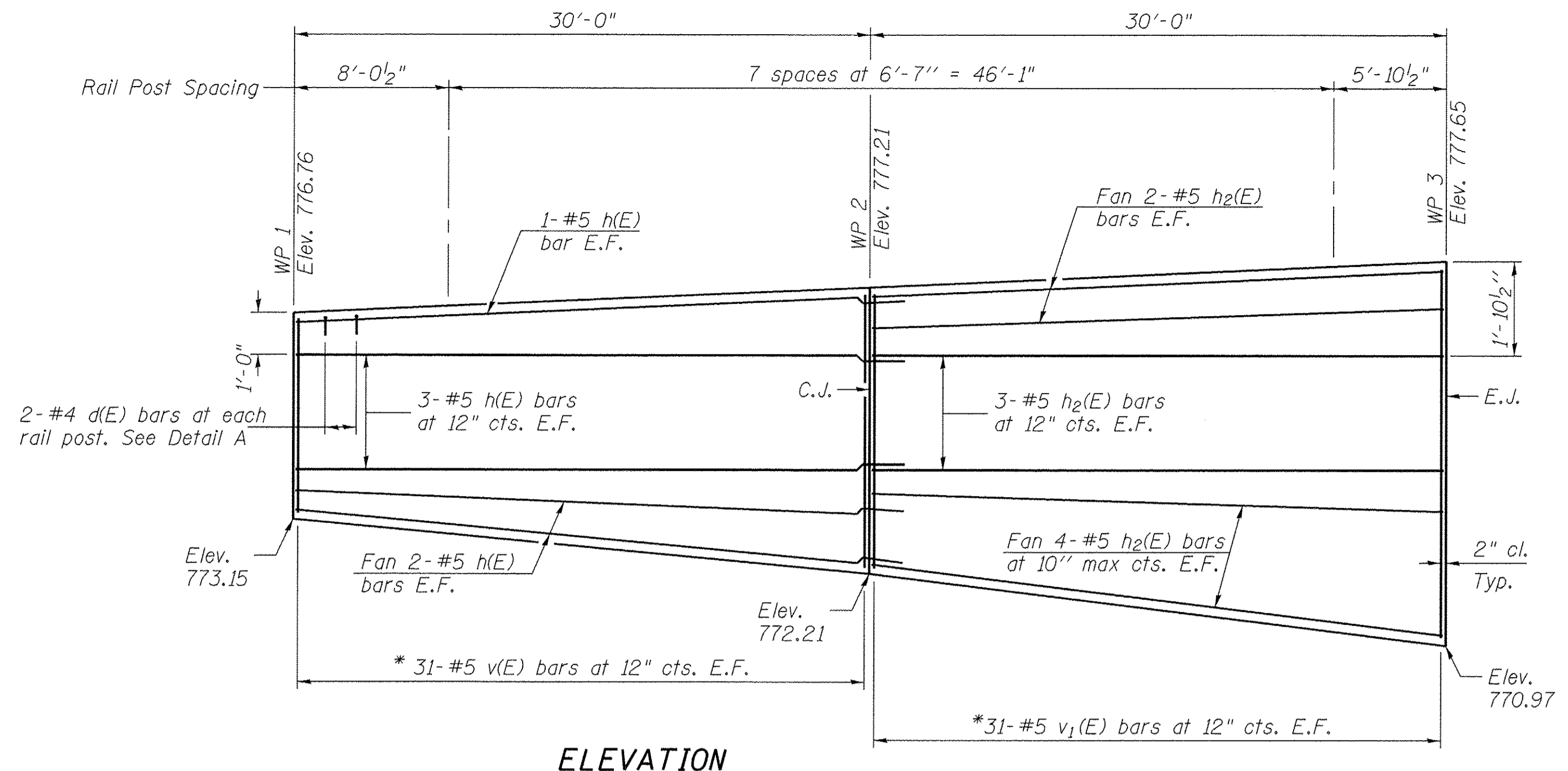
DESIGNED - AMC
 CHECKED - MCB
 DRAWN - MMY
 CHECKED - MCB
 REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
EAST MAIN STREET (US 150)

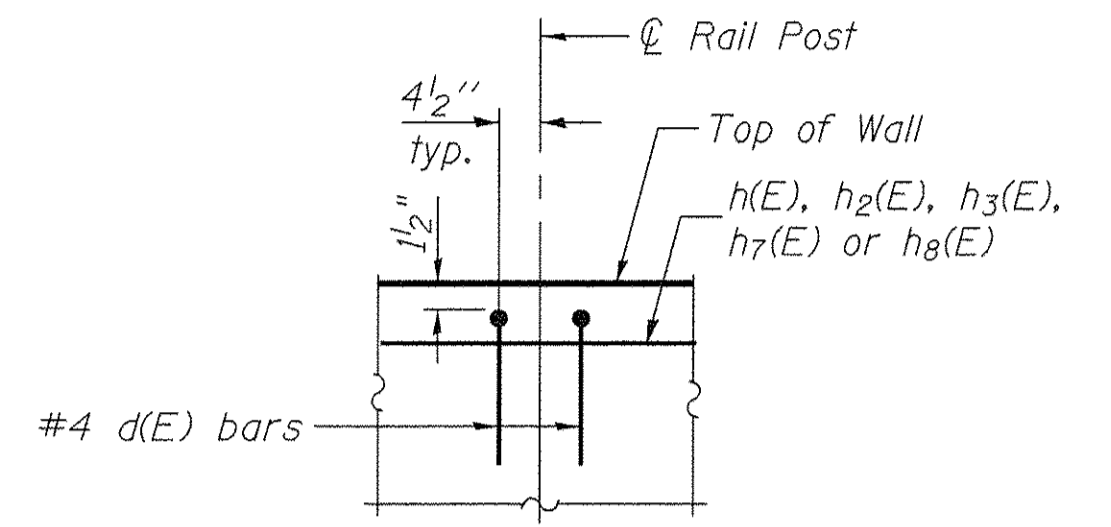
SHEET NO. 1 OF 9 SHEETS

F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 133
CONTRACT NO. 89417			ILLINOIS FED. AID PROJECT	

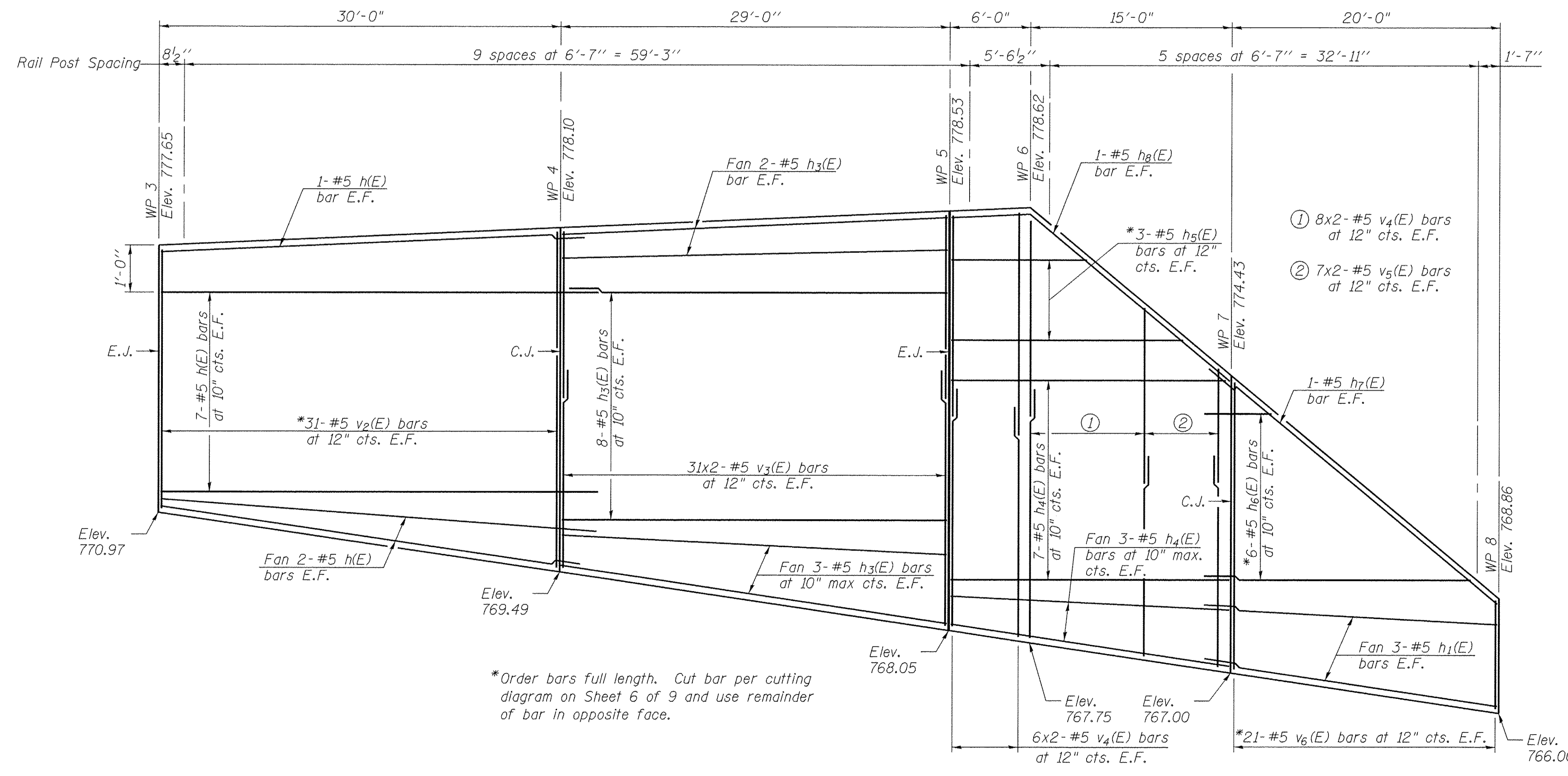


ELEVATION

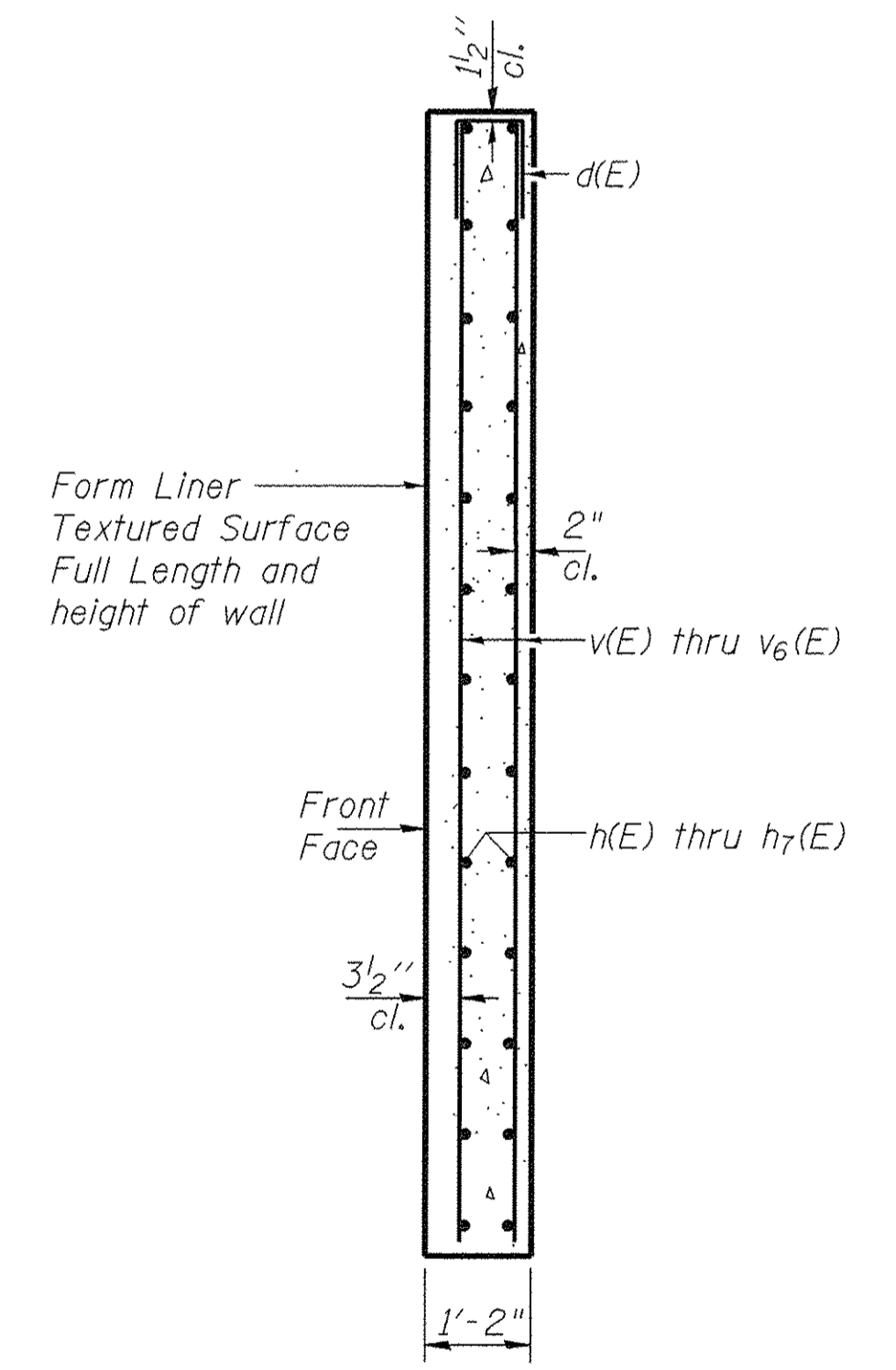
NOTES
 Top and bottom of facing is tangent between working points.
 Bars indicated thus 8 x 2-#5 etc. indicates 8 lines of bars with 2 lengths per line.
 See Sheet 6 of 9 for Bar Details and Bill of Material
 C.J. = Construction Joint
 E.J. = Expansion Joint
 See Sheet 5 of 9 for joint details
 See Sheet 7 of 9 for Handrail Details.



DETAIL "A"



ELEVATION



SECTION THRU FACING

FILE NAME = p:\projects\2006\hanson\dambhansen_projects\documents\03\coba\p\l\0105\c00-phase1\struct\c00me-bloxdorf\sheet\0488504-89417-004-elev
 CB PROJECT NO. 110283

Coombe-Bloxdorf P.C.
 CIVIL ENGINEERS
 STRUCTURAL ENGINEERS
 LAND SURVEYORS
 Design Firm License No. 164-002703

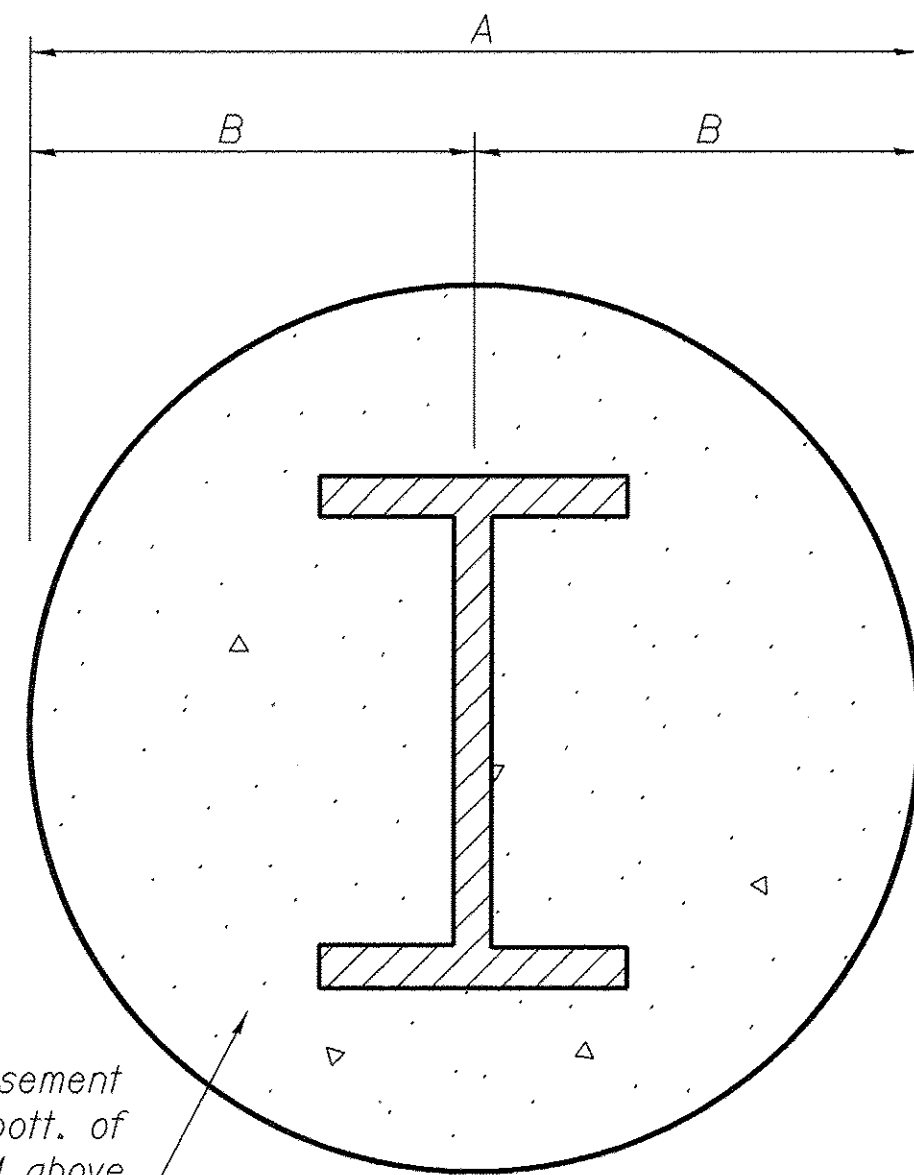
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PLOT DATE = 9/8/2015	DRAWN -	REVISD -
	CHECKED -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**C.I.P. CONCRETE FACING
 STRUCTURE NO. 048-8504**

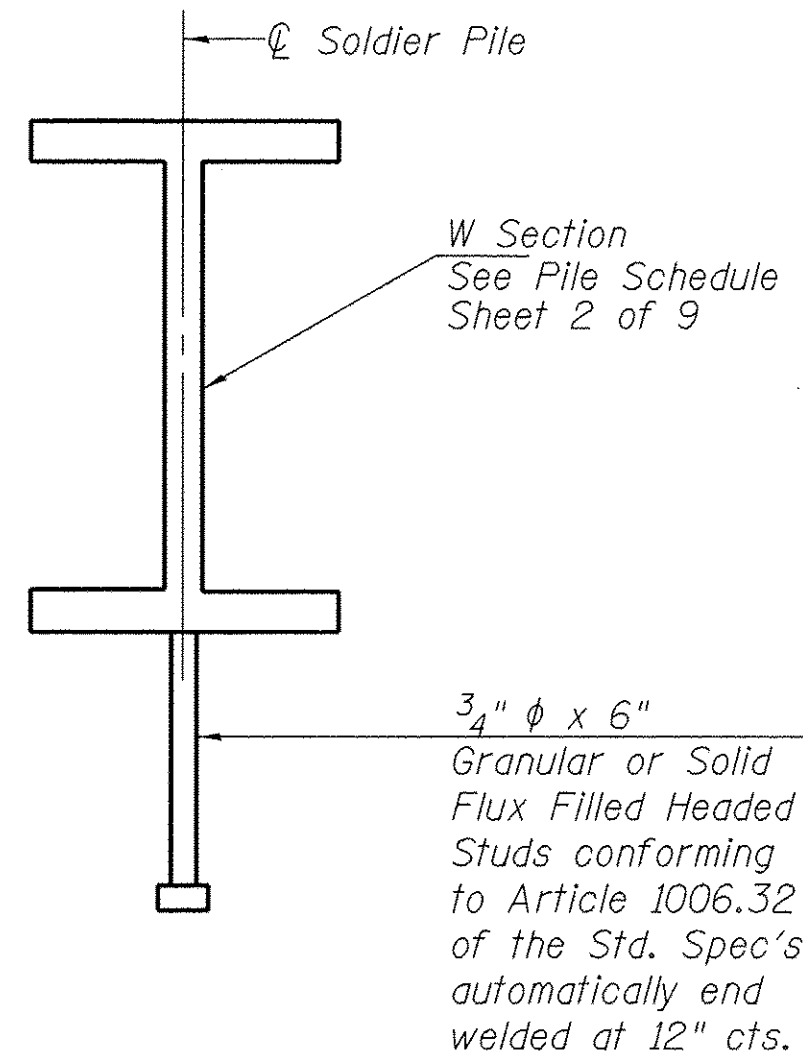
SHEET NO. 4 OF 9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	136
CONTRACT NO. 89417				
ILLINOIS FED. AID PROJECT				



Soldier pile encasement
Concrete below bott. of
wall facing CLSM above
bottom of wall facing
Cost included with
"Drilling and Setting
Soldier Piles (In Soil)"

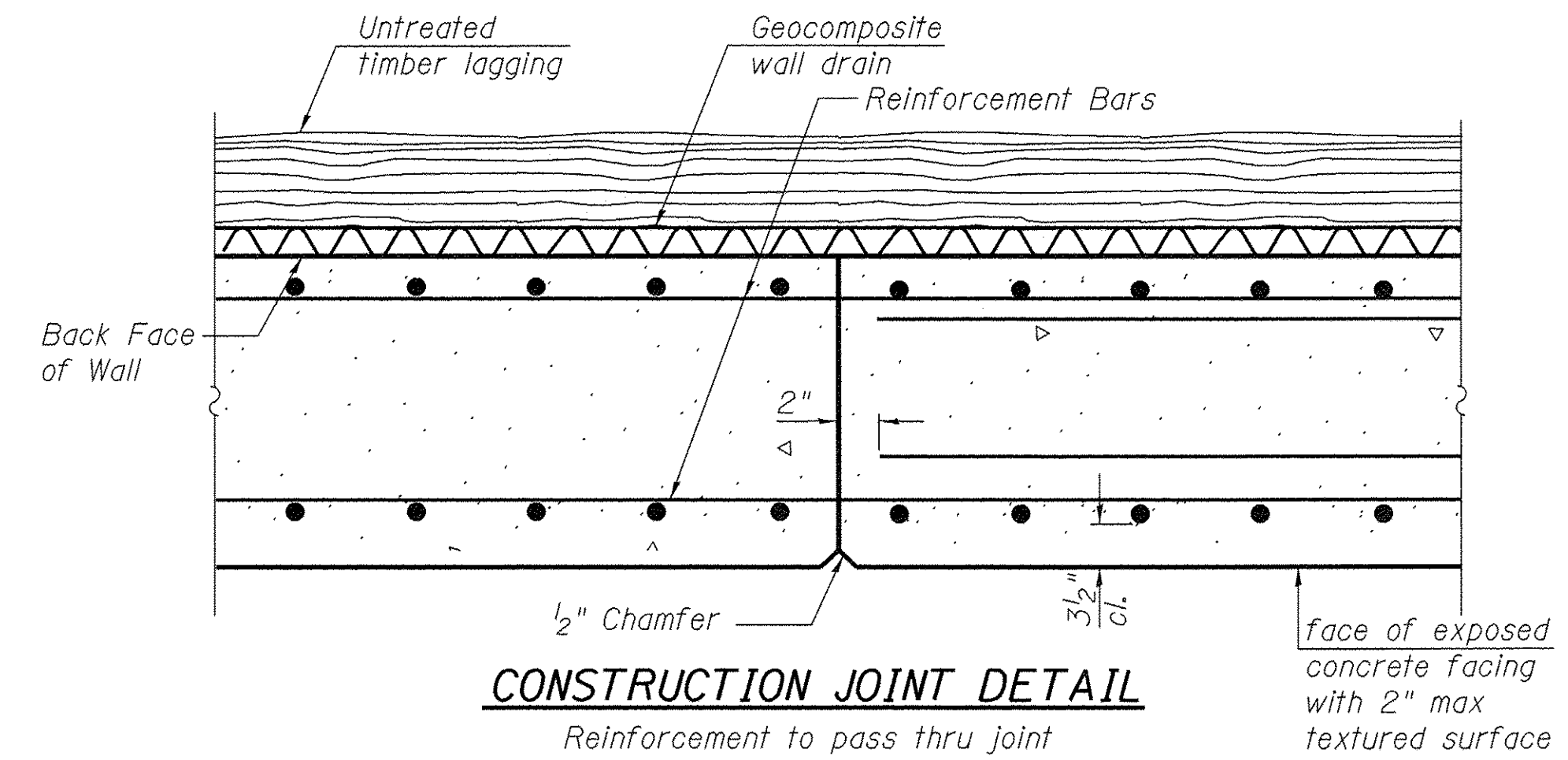
SECTION THRU SOLDIER PILE



SOLDIER PILE DETAIL

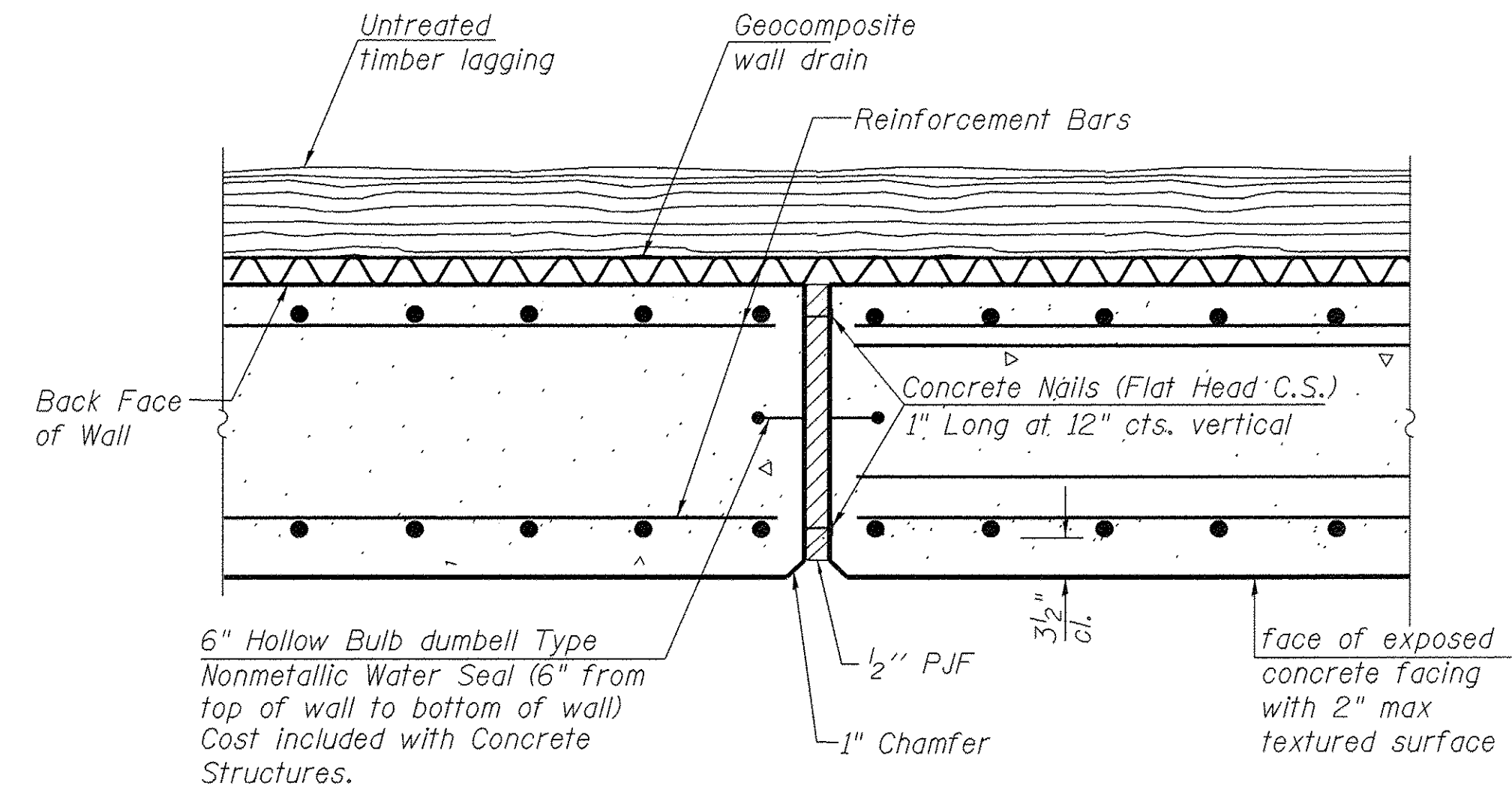
A & B DIMENSIONS

Pile	A	B
W21x68	2'-6"	1'-3"
W24x94	3'-0"	1'-6"



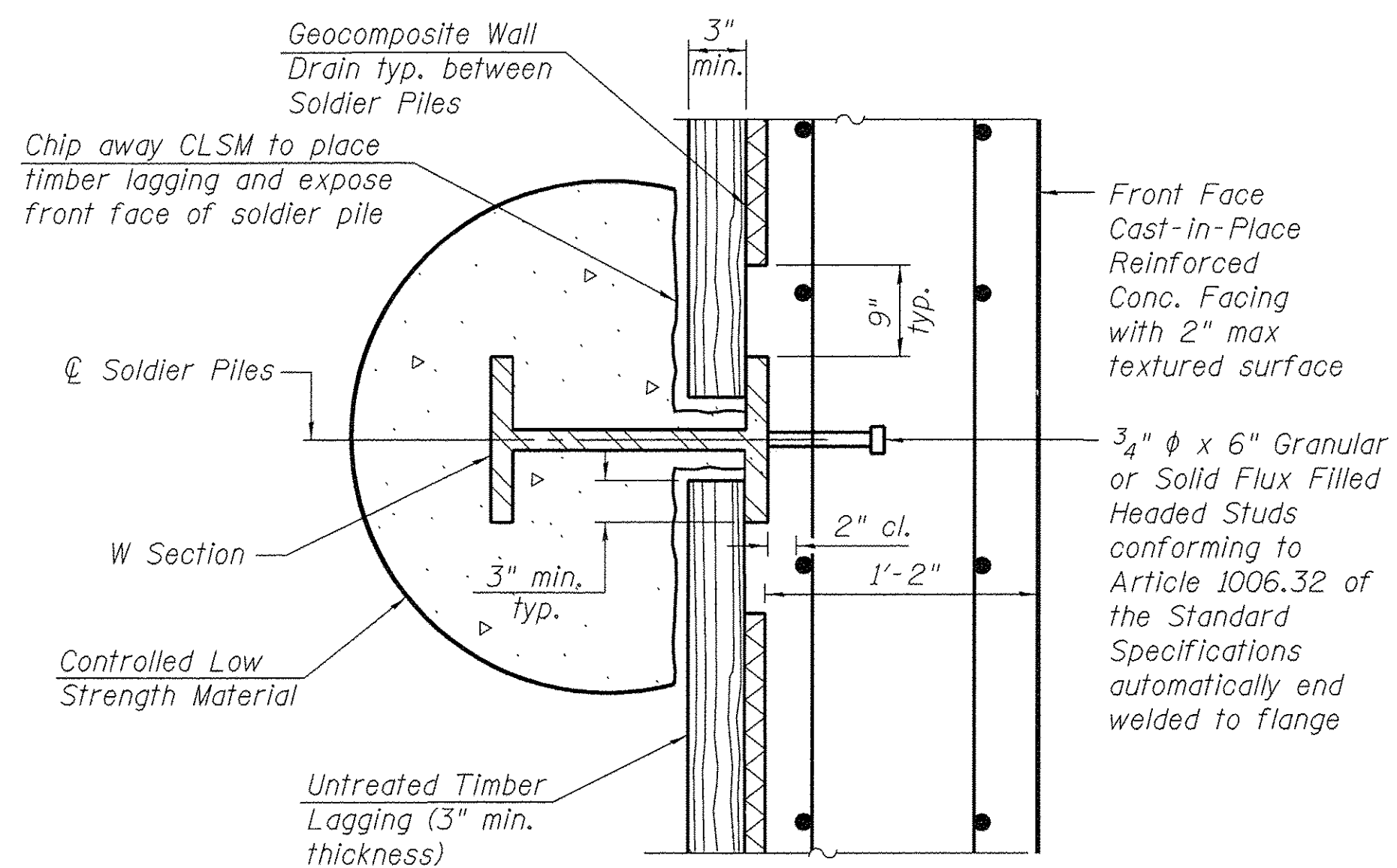
CONSTRUCTION JOINT DETAIL

Reinforcement to pass thru joint

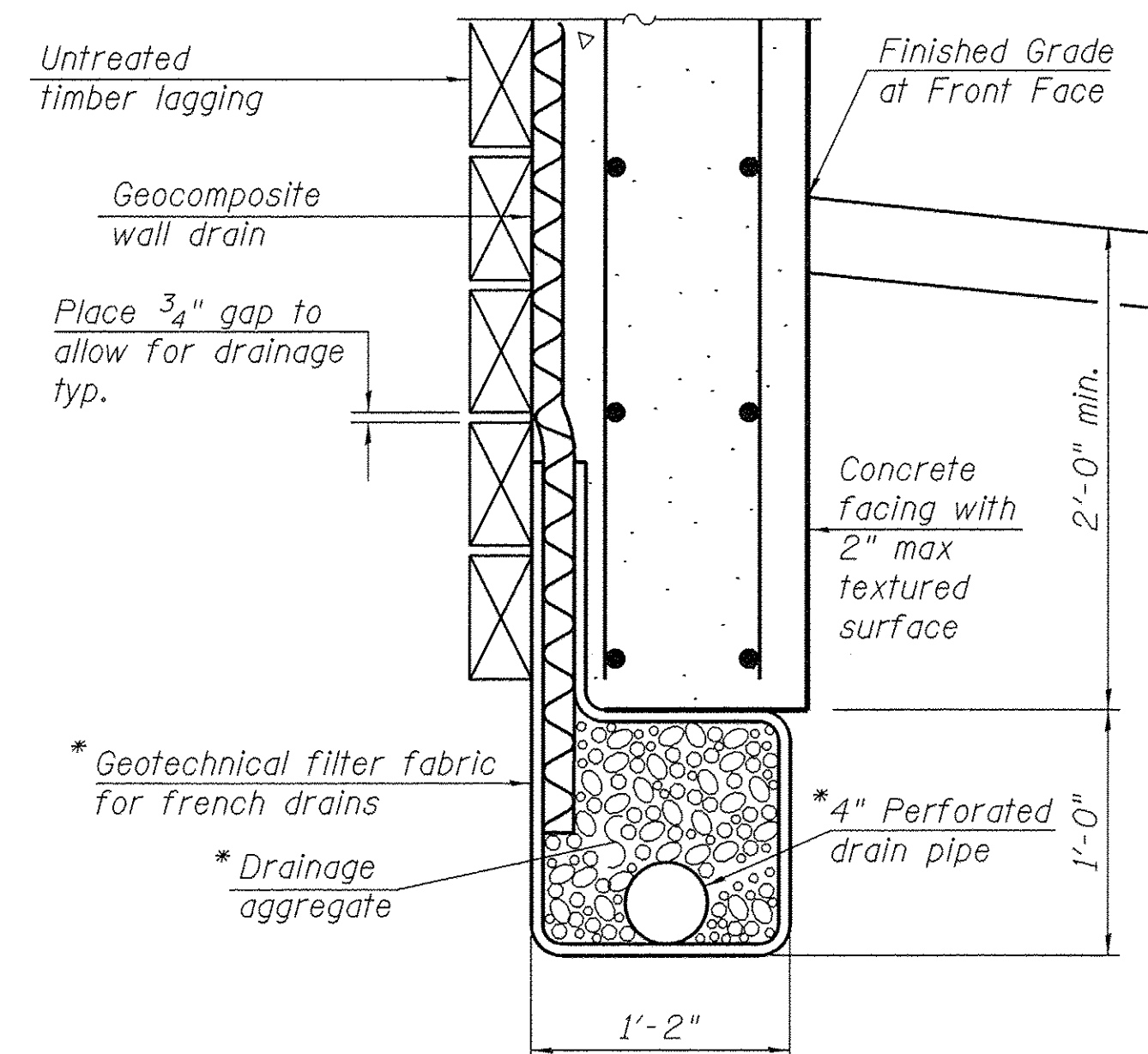


EXPANSION JOINT DETAIL

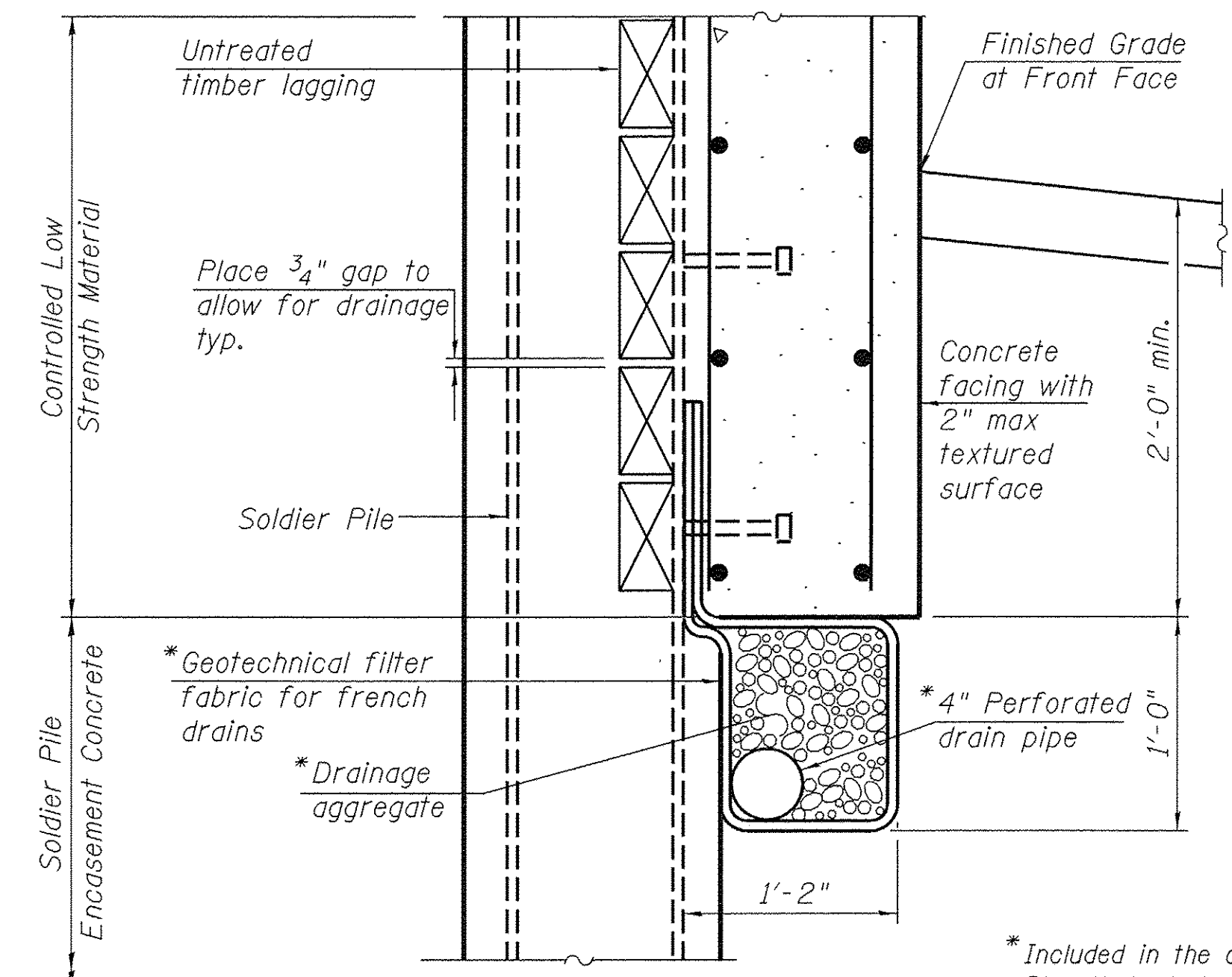
No Reinforcement to pass thru joint



SECTION A-A



BETWEEN SOLDIER PILES



AT SOLDIER PILES

* Included in the cost of
Pipe Underdrains for
Structures

PIPE UNDERDRAIN DETAILS

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PLOT DATE = 9/8/2015
CB PROJECT NO 11858

Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

USER NAME = onder00846
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CHECKED - MCB
DRAWN - MMY
CHECKED - MCB
PLOT SCALE = 0:1 1/4" = 1"
PLOT DATE = 9/8/2015

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REVISED -

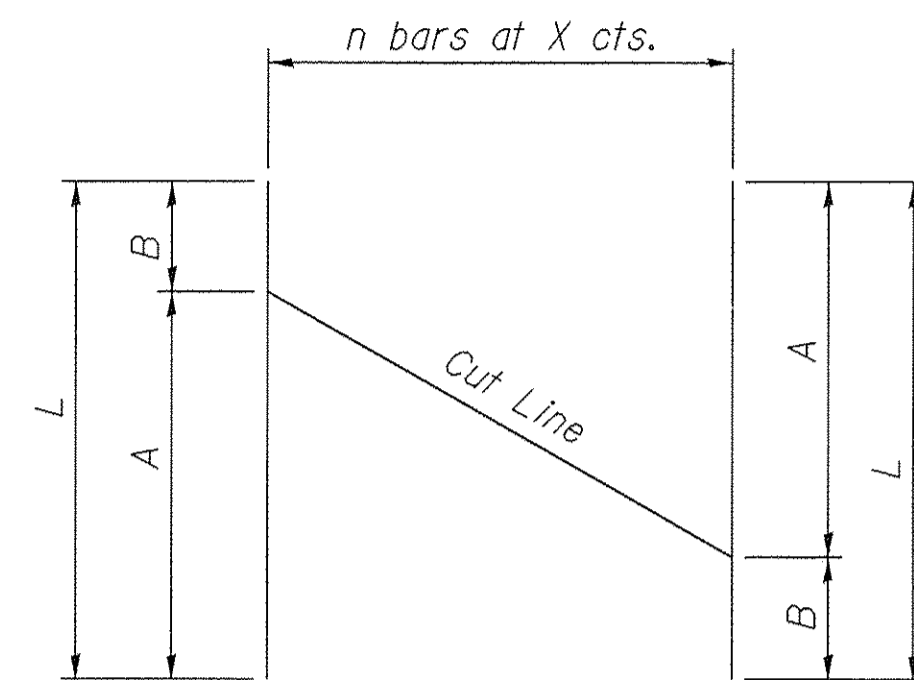
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WALL DETAILS
STRUCTURE NO. 048-8504**

SHEET NO. 5 OF 9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	137
CONTRACT NO. 89417				

ILLINOIS FED. AID PROJECT

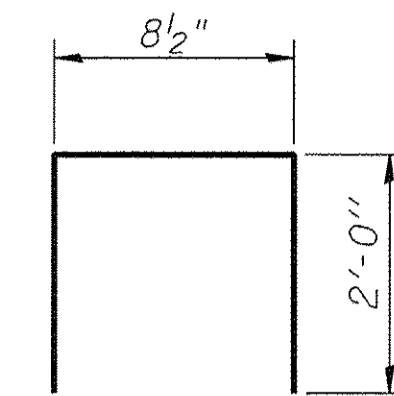


BAR CUTTING DIAGRAM

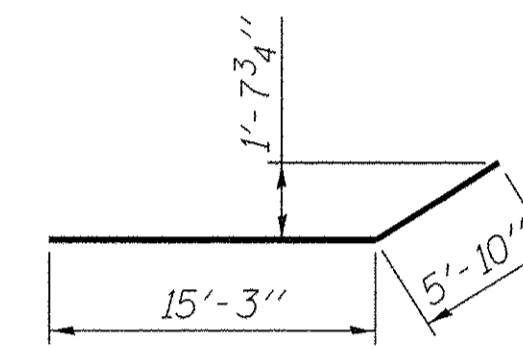
bars $v_1(E)$ thru $v_3(E)$, $v_7(E)$, $h_5(E)$ & $h_6(E)$

BAR CUTTING DIAGRAM SCHEDULE

Bar	A	B	L	n	X
$h_5(E)$	17'-1"	9'-10"	26'-11"	3	12"
$h_6(E)$	21'-0"	6'-0"	27'-0"	6	10"
$v_1(E)$	4'-8"	3'-4"	8'-0"	31	12"
$v_2(E)$	6'-4"	4'-9"	11'-1"	31	12"
$v_3(E)$	8'-3"	6'-5"	14'-8"	31	12"
$v_7(E)$	7'-1"	2'-6"	9'-7"	21	12"



BAR $d(E)$



BAR $h_8(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d(E)$	48	#4	4'-9"	U
$h(E)$	32	#5	33'-3"	—
$h_1(E)$	6	#5	23'-3"	—
$h_2(E)$	18	#5	29'-8"	—
$h_3(E)$	26	#5	28'-8"	—
$h_4(E)$	20	#5	20'-8"	—
$h_5(E)$	3	#5	26'-11"	—
$h_6(E)$	6	#5	27'-0"	—
$h_7(E)$	2	#5	24'-0"	—
$h_8(E)$	2	#5	21'-1"	—
$v(E)$	31	#5	8'-0"	—
$v_1(E)$	31	#5	11'-1"	—
$v_2(E)$	31	#5	14'-8"	—
$v_3(E)$	124	#5	6'-8"	—
$v_4(E)$	56	#5	6'-11"	—
$v_5(E)$	28	#5	6'-0"	—
$v_6(E)$	21	#5	9'-7"	—
Concrete Structures			Cu. Yd.	48.3
Reinforcement Bars, Epoxy Coated			Pound	6260

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 CB PROJECT NO 11058

Coome-Bloxdorf P.C.
 -CIVIL ENGINEERS-
 -STRUCTURAL ENGINEERS-
 -LAND SURVEYORS-
 Design Firm License No. 184-002703

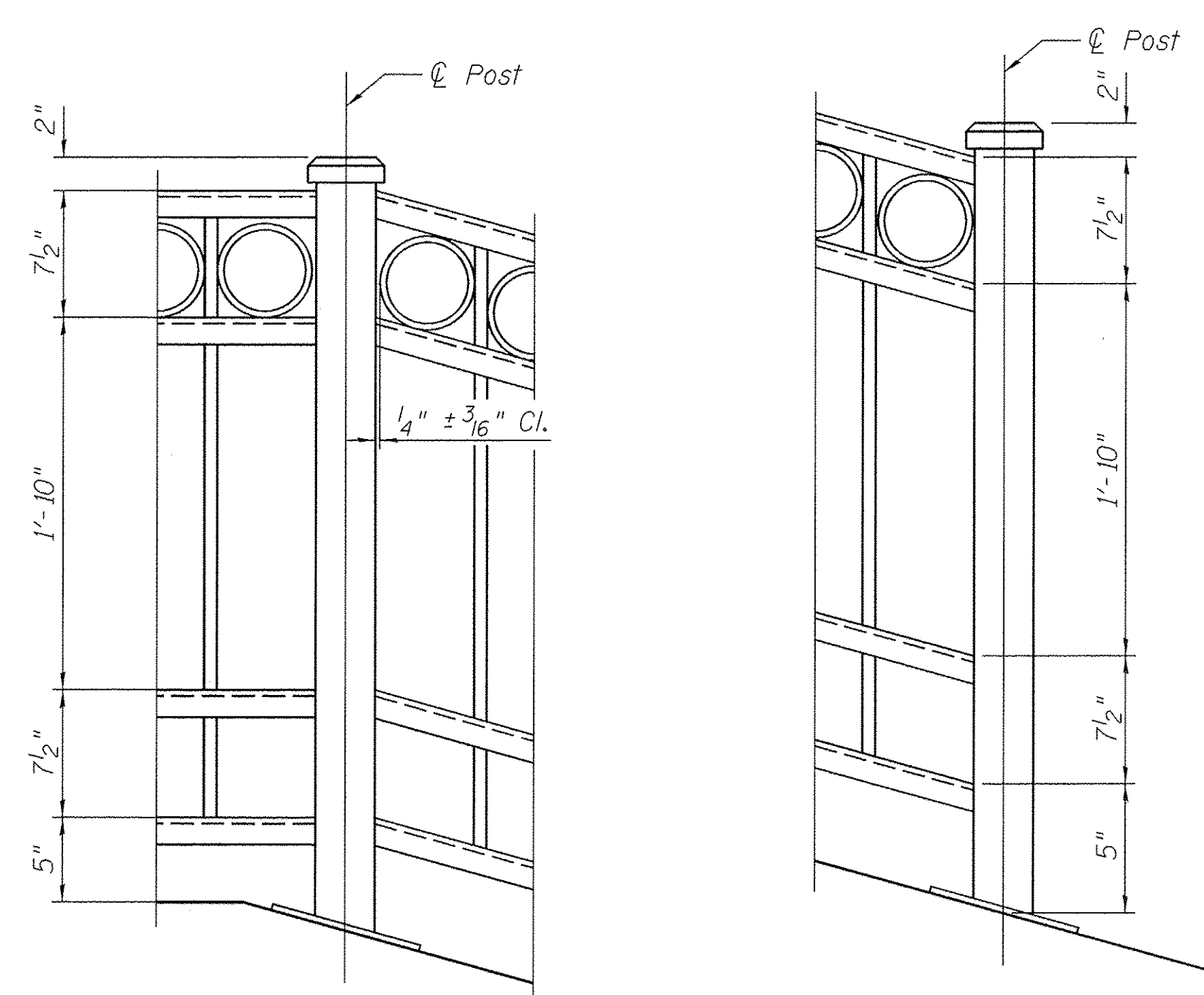
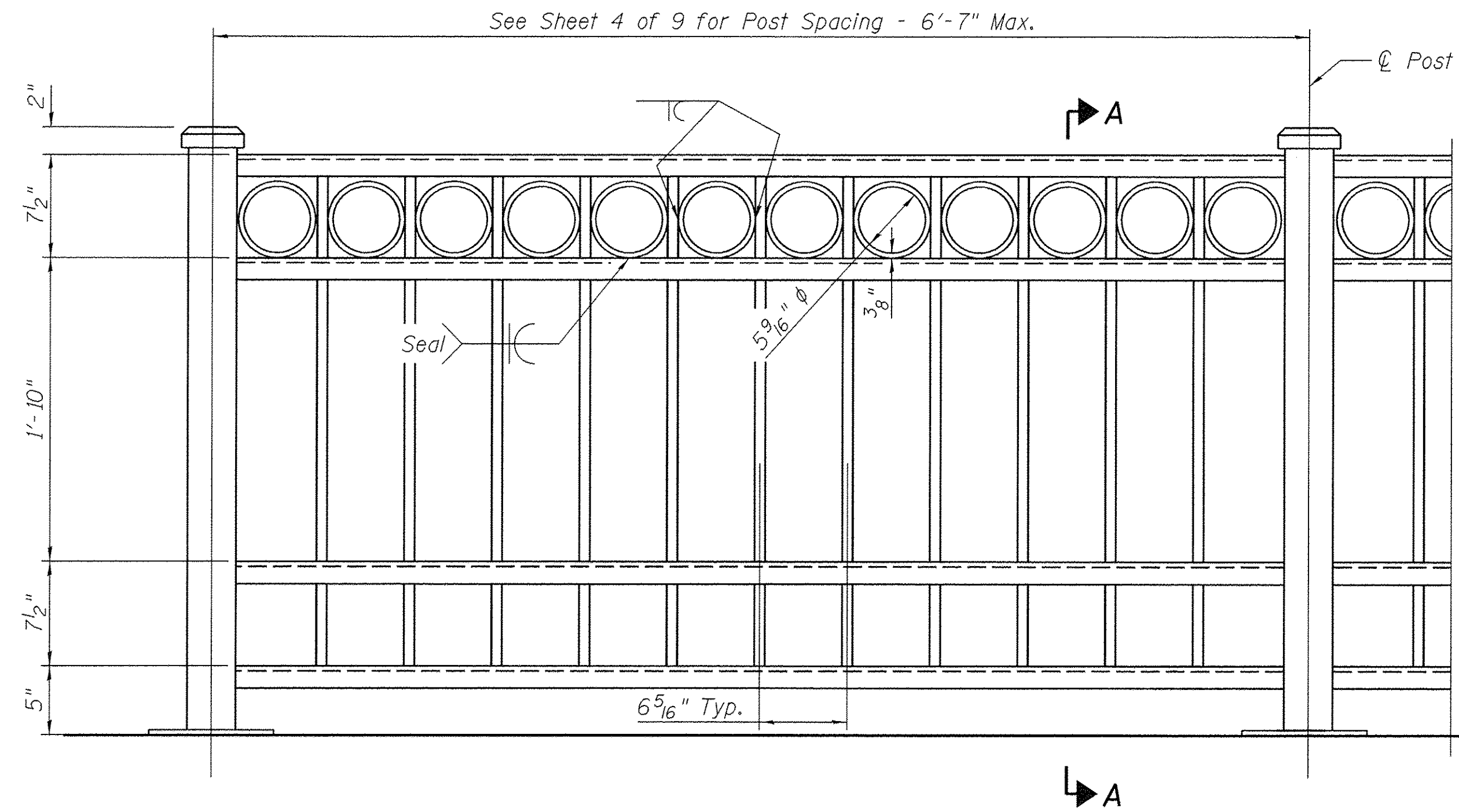
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

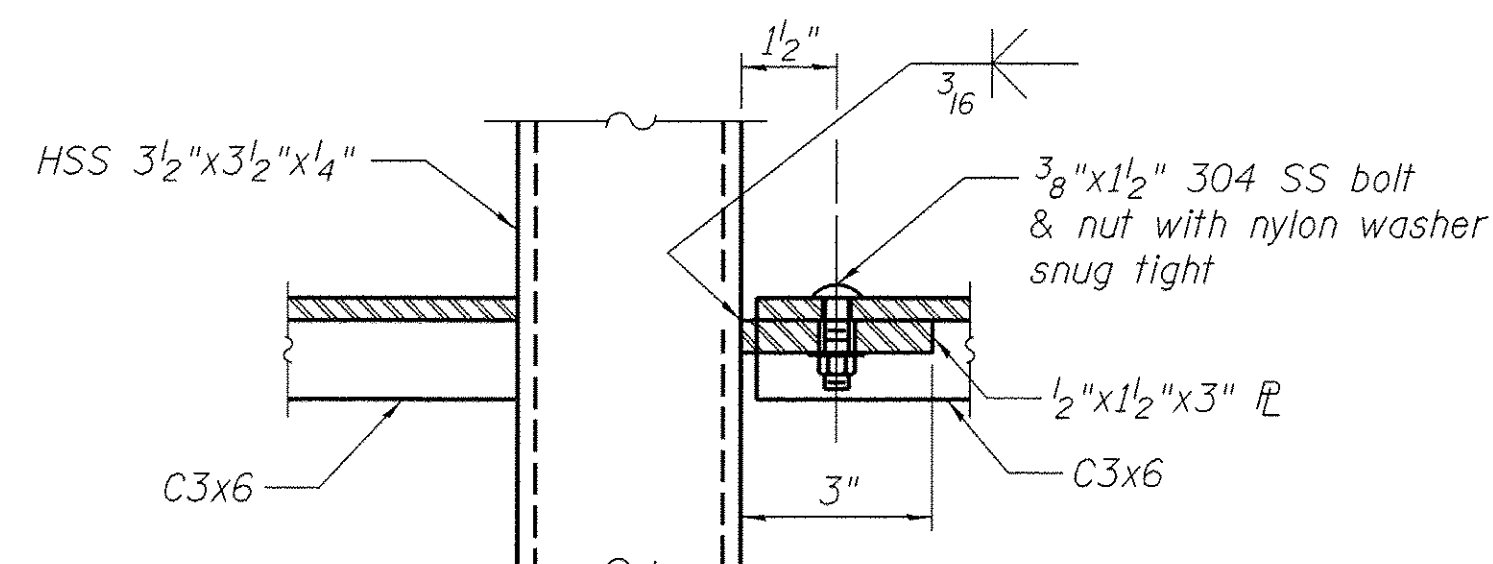
**REINFORCEMENT DETAILS
 STRUCTURE NO. 048-8504**

SHEET NO. 6 OF 9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	138
CONTRACT NO. 89417				
ILLINOIS FED. AID PROJECT				



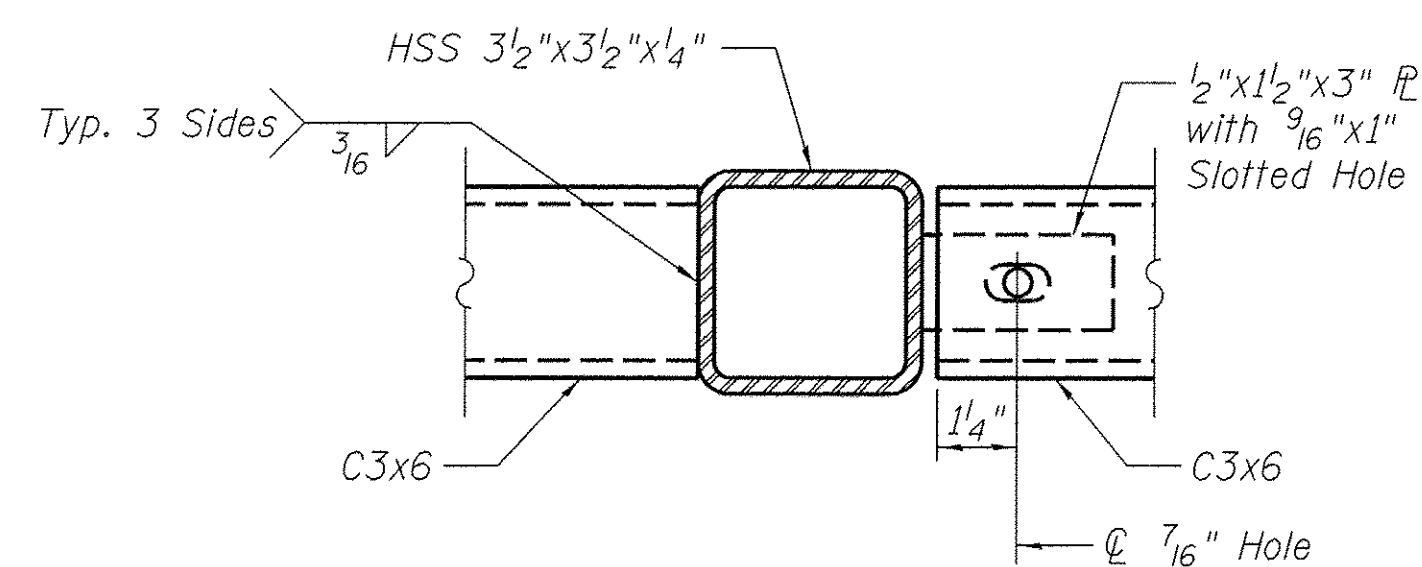
ELEVATION



SHOP CONNECTION

FIELD CONNECTION

SECTION

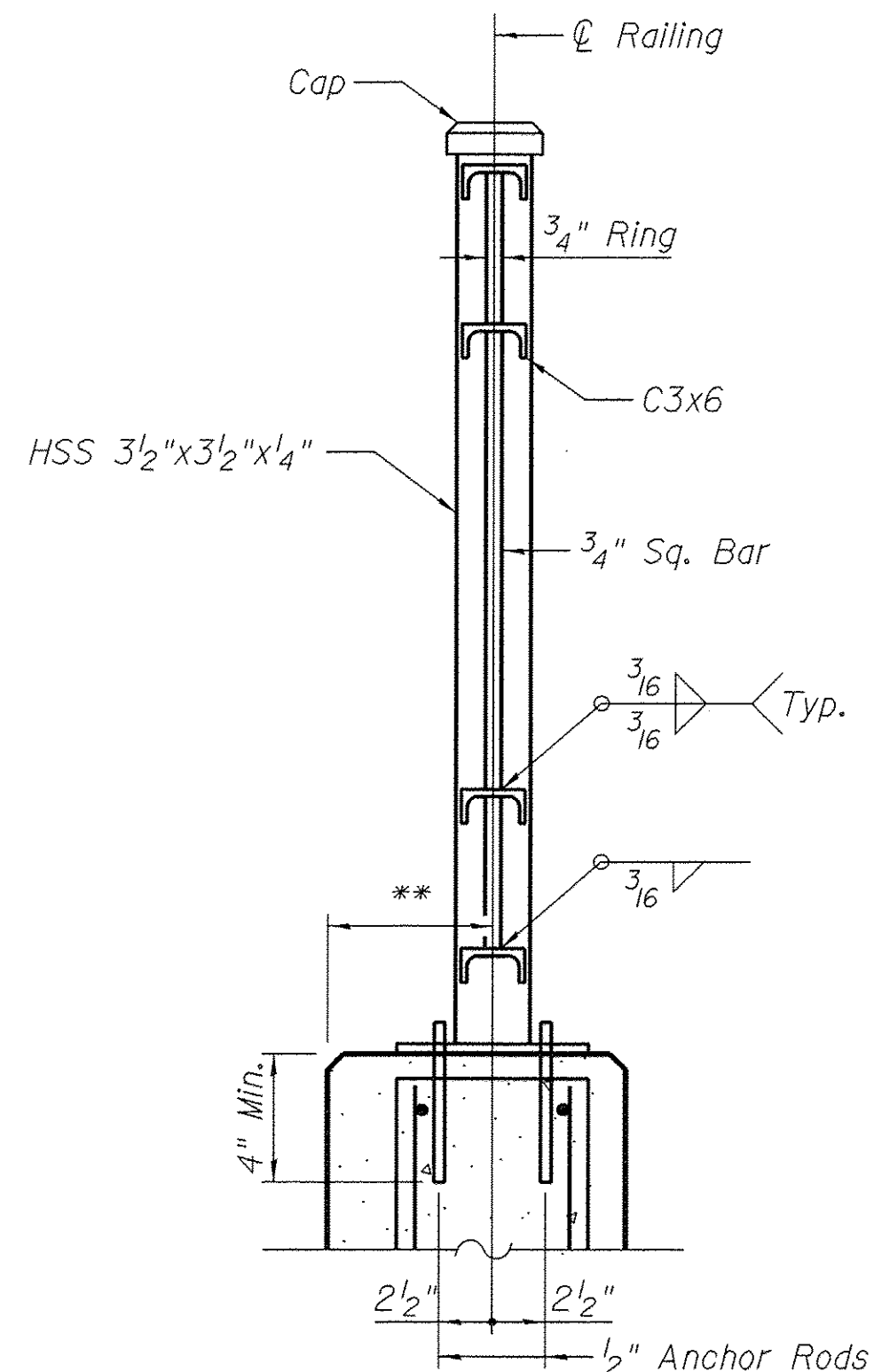


SHOP CONNECTION

FIELD CONNECTION

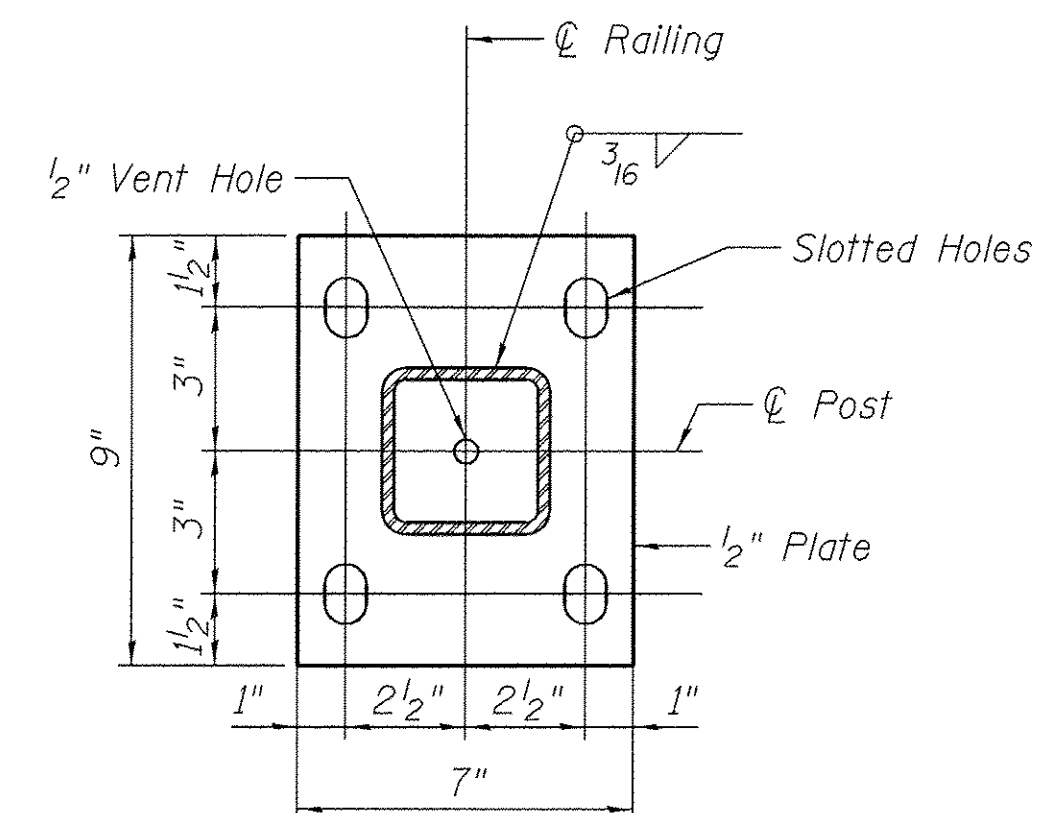
PLAN

RAIL TO POST CONNECTION DETAILS



SECTION A-A

** Adjust to fit between reinforcement



BASE PLATE

NOTES

1. Hollow structural steel tubing shall conform to the requirements of ASTM Designation A500, Grade B.
2. All other steel shapes and plates shall conform to the requirements of AASHTO M270 Grade 36.
3. Posts, railings and plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A385. Vent holes for galvanizing shall be placed in the post at locations that will not allow accumulation of moisture in the member. Final finish of members to be per Special Provisions.
4. All welds shall be seal-welds and shall be minimum size per AWS Standards unless noted otherwise.
6. Provide stainless steel shim plates for each post.
7. Anchor rods shall be ASTM F568M galvanized steel all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified.
8. Rails are to be installed parallel to the top surface of the wall, and posts are to be installed level, plumb and true.
9. Post spacings shown on the structure plans are based on the wall dimensions as shown. Contractor shall verify that the wall is constructed to the intended lines and grades prior to fabrication. Any adjustments needed to fit the as-constructed wall shall be at the expense of the Contractor.

BILL OF MATERIAL

Item	Unit	Quantity
Ornamental Handrail	Foot	160

LAYOUT
DRAWN
REVIEWED



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ORNAMENTAL HANDRAIL DETAILS
STRUCTURE NO. 048-8504**

SHEET NO. 7 OF 9 SHEETS

F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 139
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
Whitney & Associates

SOIL BORING LOG

Page 1 of 2

Date 4/11/13

ROUTE FAP 6800 (US 150) DESCRIPTION East Main Street Under BNSF Railroad LOGGED BY T. Fehl

SECTION 05-00500-19-GS LOCATION Galesburg, SEC. 11, TWP. 11N, RNG. 1E, 4th PM.

COUNTY Knox DRILLING METHOD Hollow-Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	DEPTH H	BULGE W	UCS Qu	MOISTURE S	Surface Water Elev.		DEPTH H	BULGE W	UCS Qu	MOISTURE S
					ft	(ft)				
B-04 105+50 47.2 ft Left Ground Surface Elev. 778.41										
Dark Brown SILTY CLAY Organic Topsoil (15.0")										
					777.16					
Dark Brown SILTY CLAY (20.0")					776.74					
Stiff, Light Brown And Brown SILTY CLAY DD = 94 PCF		4	5	1.7						
		6								
					774.41					
Medium, Gray And Orange-Brown SILTY CLAY LOAM										
					771.91					
Stiff, Gray And Orange-Brown SILTY CLAY LOAM DD = 98 PCF										
					769.41					
Stiff, Light Brown And Gray SILTY CLAY LOAM										
					766.41					
Medium, Brown SILTY CLAY DD = 96 PCF										
					763.91					
Stiff, Brown And Gray-Brown CLAY										
					761.41					
Stiff, Brown And Gray-Brown CLAY LOAM DD = 105 PCF										
					758.91					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Whitney & Associates

SOIL BORING LOG

Page 2 of 2

Date 4/11/13

ROUTE FAP 6800 (US 150) DESCRIPTION East Main Street Under BNSF Railroad LOGGED BY T. Fehl

SECTION 05-00500-19-GS LOCATION Galesburg, SEC. 11, TWP. 11N, RNG. 1E, 4th PM.

COUNTY Knox DRILLING METHOD Hollow-Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	DEPTH H	BULGE W	UCS Qu	MOISTURE S	Surface Water Elev.		DEPTH H	BULGE W	UCS Qu	MOISTURE S
					ft	(ft)				
B-04 105+50 47.2 ft Left Ground Surface Elev. 778.41										
Very Stiff, Gray CLAY LOAM (Glacial Till) (continued)										
					737.41					
End of Boring DD = 122 PCF										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

FILE NAME = C:\Users\domitiahanson\Documents\Projects\Documents\93\Jobs\93\0195\CAD-Phase\IT\Sheet\Coombe-Bloxdorf-Sheet\0188504-89417-009-borings

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

USER NAME = onder02846
PLOT SCALE = 0.083' / in.
PLOT DATE = 9/8/2015

DESIGNED - AMC	REVISED -
CHECKED - MCB	REVISED -
DRAWN - MMY	REVISED -
CHECKED - MCB	REVISED -

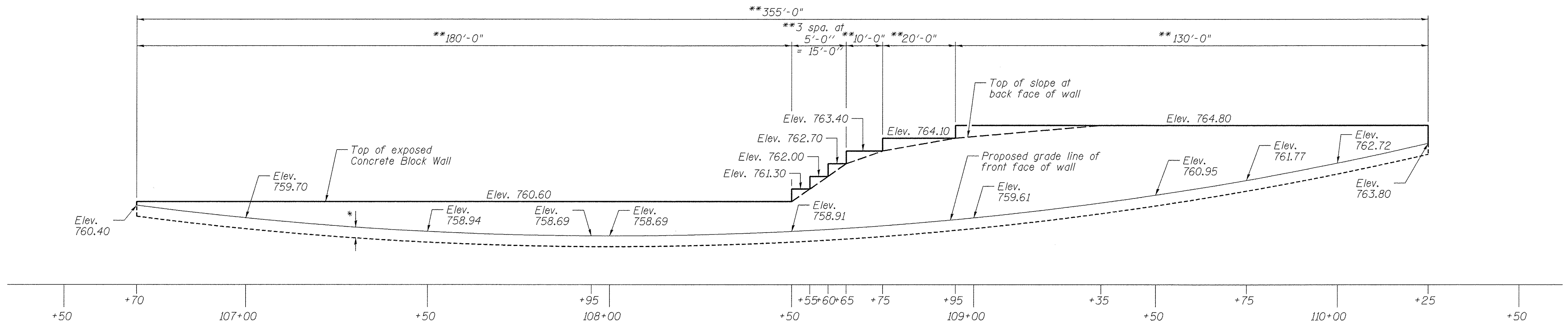
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
STRUCTURE NO. 048-8504**

SHEET NO. 9 OF 9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	141
CONTRACT NO. 89417				
ILLINOIS FED. AID PROJECT				

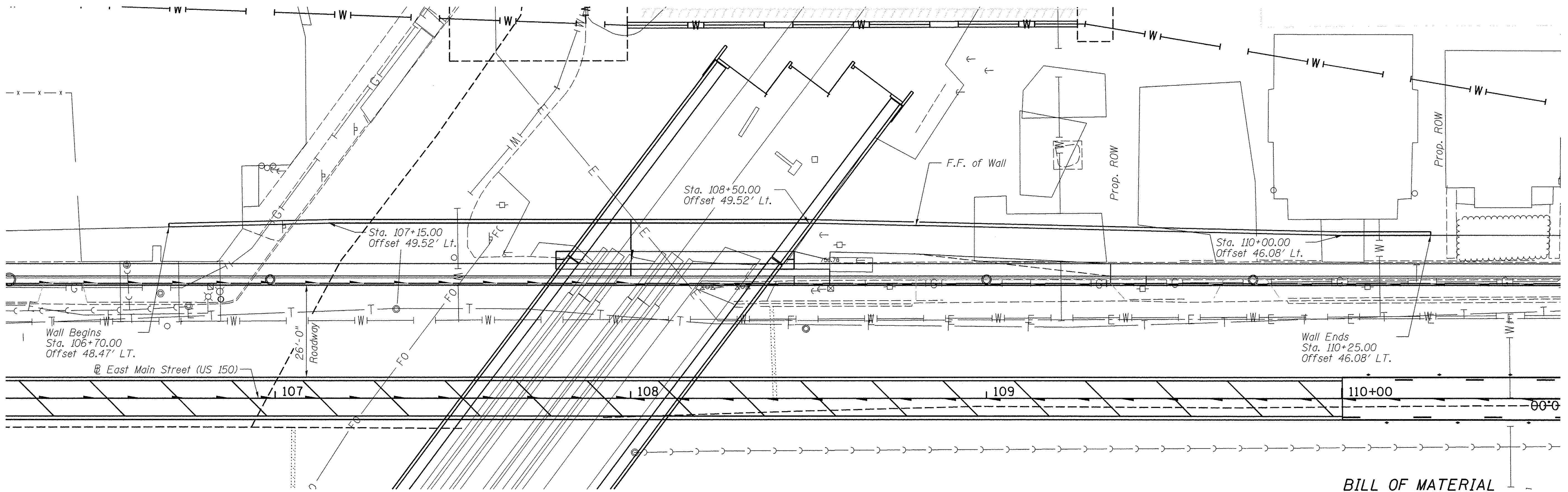
768
766
764
762
760
758
756



ELEVATION
(Looking at F.F. of Wall)

* See Sheet 3 of 3 for leveling base pad detail and concrete alternate.
** Measured along front face of wall at @

Notes:
Wall quantities shown assume the use of a leveling base pad consisting of 4 inches of Compacted Fill and a 1" Concrete slab. Additional materials required for the concrete alternate base pad shown on sheet 3 of 3 are included in the cost of Segmental Concrete Block Wall.
Wall offsets are measured from @ East Main Street (US 150) to front face of wall at the proposed grade line.
See Roadway Plans for excavation and backfill quantities.
Segmental Concrete Block Wall design shall be the responsibility of the Contractor. See Special Provisions.
See Roadway Plan for pipe underdrain outlet.



PLAN

BILL OF MATERIAL

Item	Unit	Total
Segmental Concrete Block Wall	Sq. Ft.	2125
Pipe Underdrains for Structures 4"	Foot	355

FILE NAME = C:\Users\jason.dominionson\Documents\093\Jobs\091\0105\CAD-Phase1\Structure\Coombe-Bloxdorf\Temp\0489417-001-RPE-Ndgn
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 CB PROJECT NO. 10058

Coombe-Bloxdorf P.C.
 - CIVIL ENGINEERS -
 - STRUCTURAL ENGINEERS -
 - LAND SURVEYORS -
 Design Firm License No. 184-002703

USER NAME = andr00846
 PLLOT SCALE = 15.000' / 1" =
 PLOT DATE = 9/8/2015

DESIGNED - AMC
 CHECKED - MCB
 DRAWN - MMY
 CHECKED - MCB

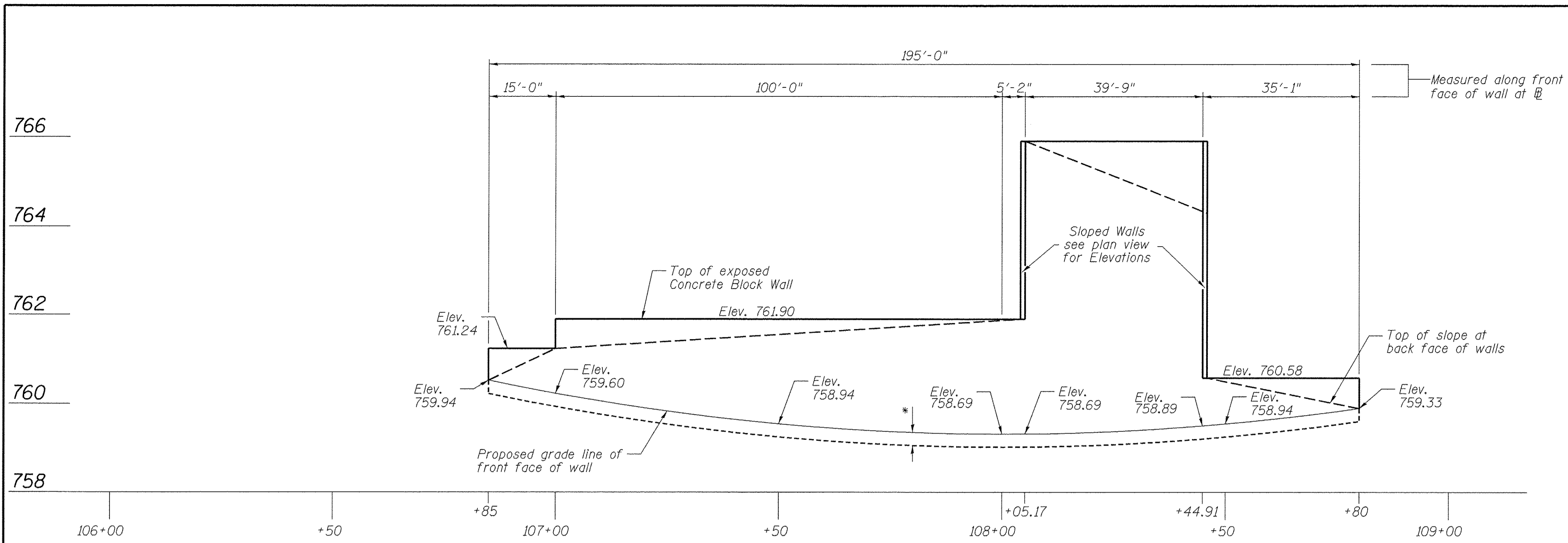
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH SEGMENTAL CONCRETE BLOCK WALL
 EAST MAIN STREET (US 150) - LT. STA. 106 + 25.00 TO 110 + 50.00**

SHEET NO. 1 OF 3 SHEETS

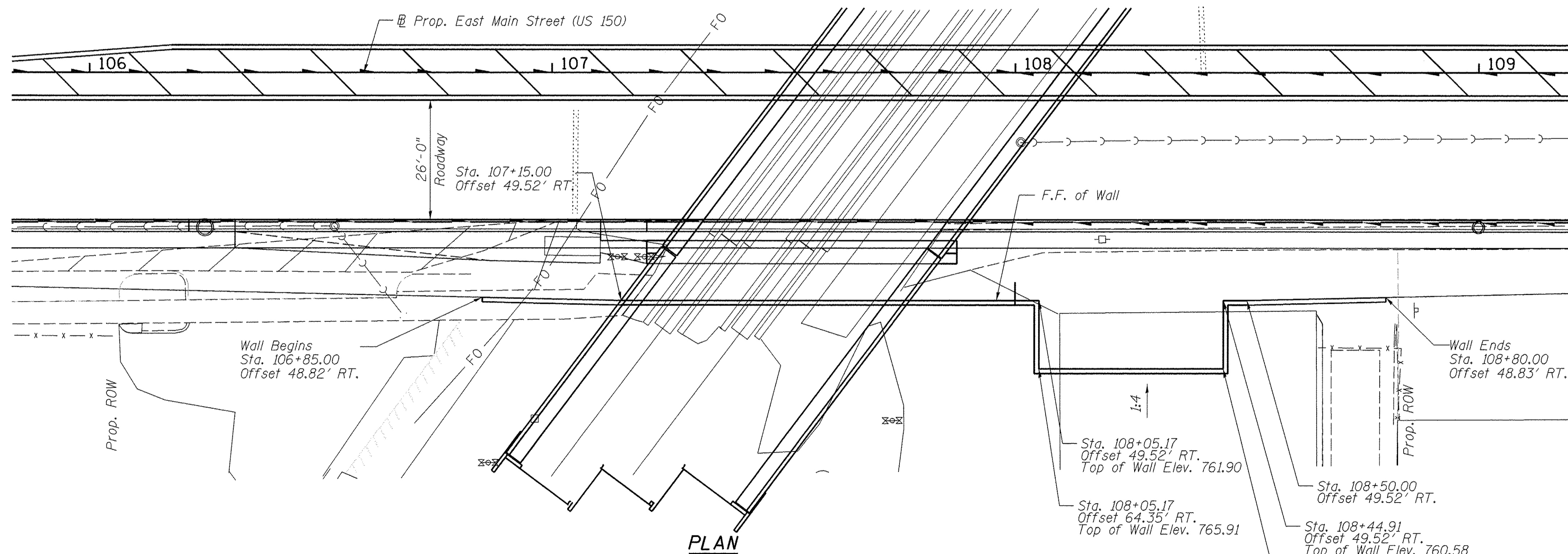
F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 142
CONTRACT NO. 89417				
ILLINOIS FED. AID PROJECT				



* See Sheet 3 of 3 for leveling base pad detail and concrete alternate.

ELEVATION
(Looking at F.F. of Wall)

Notes:
 Wall quantities shown assume the use of a leveling base pad consisting of 4 inches of Compacted Fill and a 1" Concrete slab. Additional materials required for the concrete alternate base pad shown on sheet 3 of 3 are included in the cost of Segmental Concrete Block Wall.
 Wall offsets are measured from East Main Street (US 150) to front face of wall at the proposed grade line.
 See Roadway Plans for excavation and backfill quantities.
 Segmental Concrete Block Wall design shall be the responsibility of the Contractor. See Special Provisions.
 See Roadway Plan for pipe underdrain outlet.



PLAN

BILL OF MATERIAL

Item	Unit	Total
Segmental Concrete Block Wall	Sq. Ft.	1977
Pipe Underdrains for Structures 4"	Foot	225

FILE NAME = C:\Users\hanson\Documents\Projects\Illinois\105\CAD-Phase1\Structure\Coombe-Bloxdorf_Temp\105\105-19-GS-CAD-Phase1\105-19-GS-CAD-Phase1.dwg
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Coombe-Bloxdorf P.C.
 - CIVIL ENGINEERS -
 - STRUCTURAL ENGINEERS -
 - LAND SURVEYORS -
 Design Firm License No. 184-002703

USER NAME = ande-00846
 DESIGNED - AMC
 CHECKED - MCB
 PLOT SCALE = 15.0000' / 1"
 DRAWN - MMY
 PLOT DATE = 9/8/2015
 CHECKED - MCB

DESIGNED - AMC
 CHECKED - MCB
 DRAWN - MMY
 CHECKED - MCB

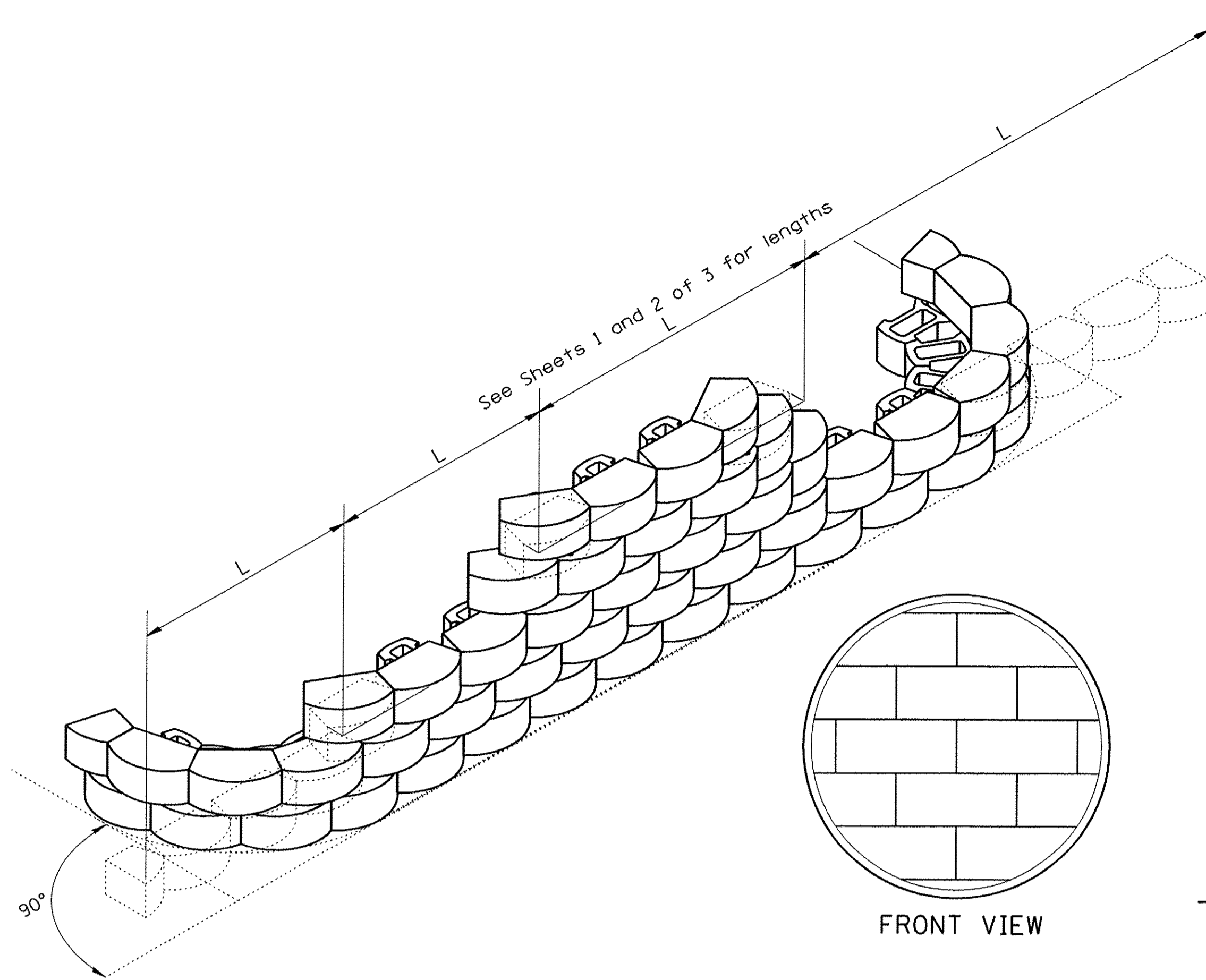
REVISED -
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 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

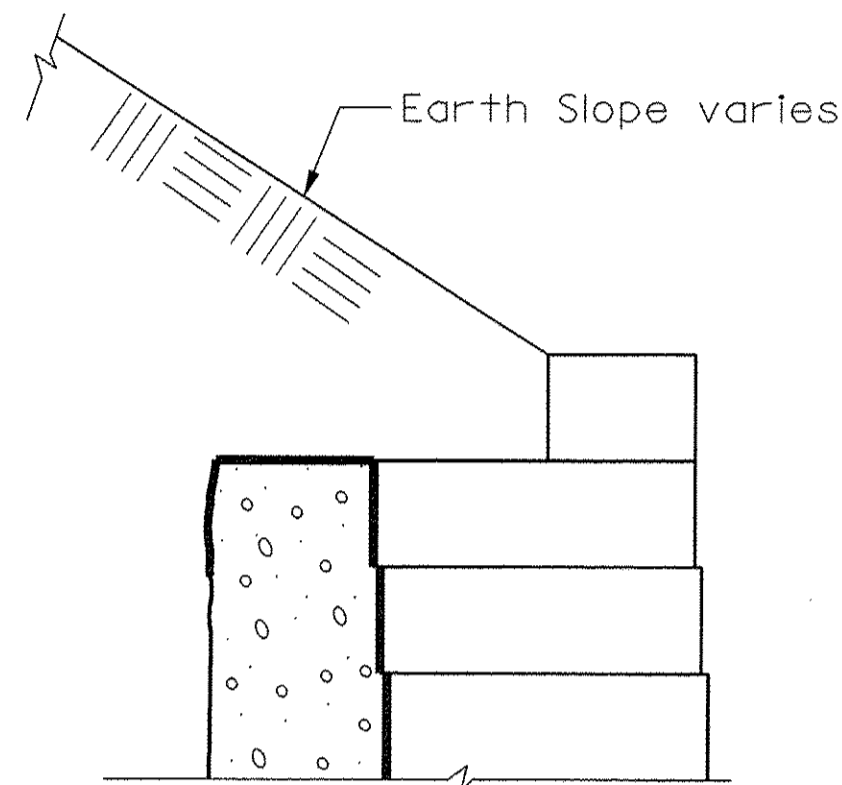
SOUTH SEGMENTAL CONCRETE BLOCK WALL
EAST MAIN STREET (US 150) - RT. STA. 106 + 85.00 TO 108 + 80.00

SHEET NO. 2 OF 3 SHEETS

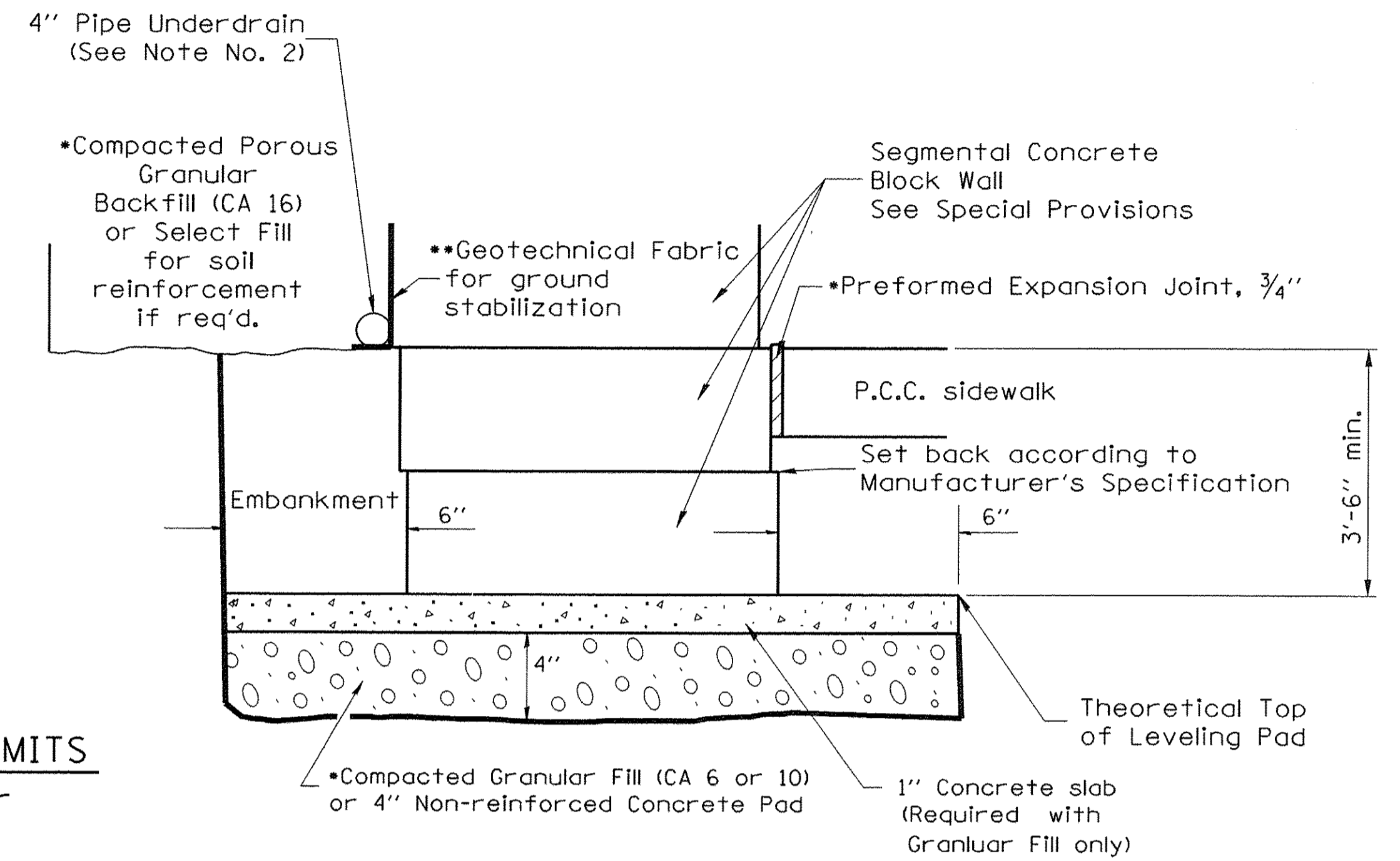
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	143
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				



INSTALLATION OF COURSES IN RUNNING BOND



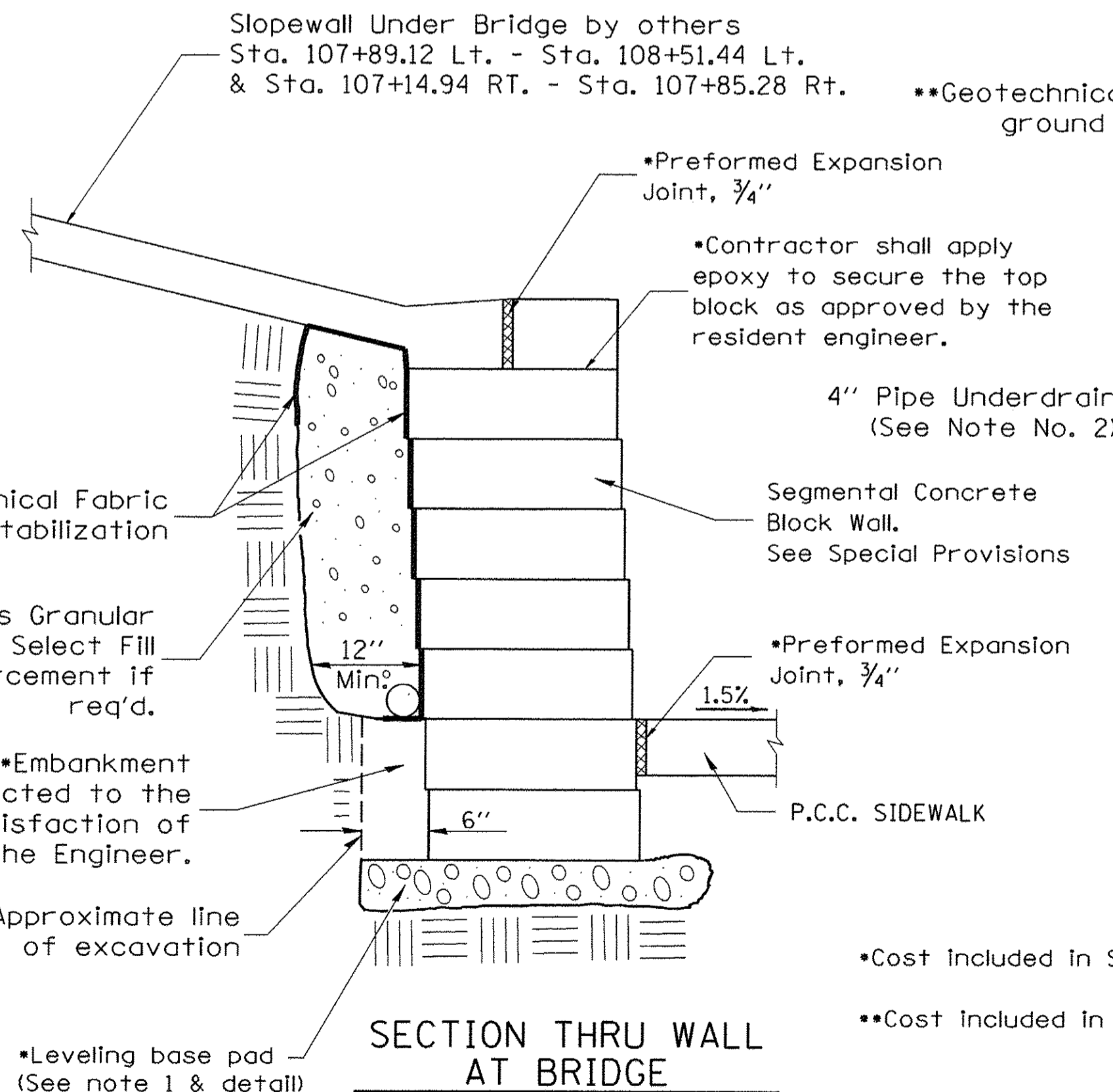
SECTION THRU WALL BEYOND BRIDGE LIMITS
(See Section Thru Wall at Bridge for additional details)



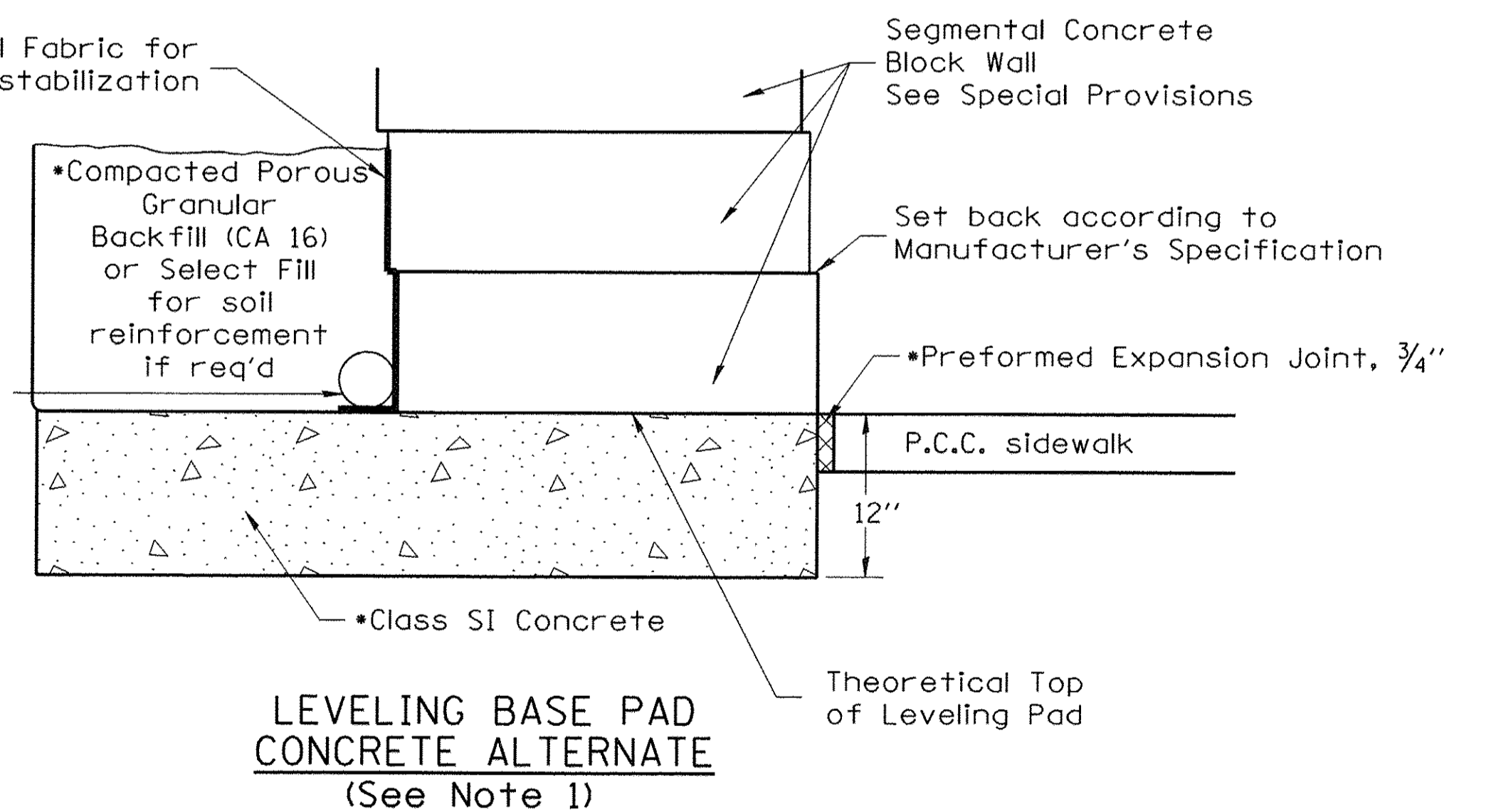
LEVELING BASE PAD DETAIL

NOTES:

- At the Contractor's option the portion of the stone wall below top of sidewalk elevation may be constructed with class SI concrete. The width shall match the width of the segmental block plus the 12" maximum trench.
- 4" Pipe Underdrains shall outlet into inlets or storm sewer.
- Pipe drains and pipe underdrains shall meet the requirements of the applicable portions of section 601 of the Standard Specifications.
- Preformed expansion joint filler shall be placed between the sidewalk and the wall.
- The geotechnical fabric shall meet the requirements of the applicable portions of Sections 210 and 1080 of the Standard Specifications.
- Light pole foundations are located along the walls at the locations shown in the roadway plans. The walls shall be built around the light pole foundations as necessary. Cost included in Segmental Concrete Block Wall.



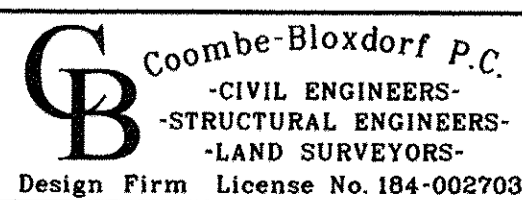
SECTION THRU WALL AT BRIDGE



LEVELING BASE PAD CONCRETE ALTERNATE
(See Note 1)

- Cost Included in Segmental Concrete Block Wall
- Cost Included in Pipe Underdrains for Structures 4"

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 CE PROJECT NO. 11058



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PLOT SCALE = 50.0000' / 1"	CHECKED - MCB	REVISED -
PLOT DATE = 9/8/2015	DRAWN - MMY	REVISED -
	CHECKED - MCB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEGMENTAL CONCRETE BLOCK WALL DETAILS
EAST MAIN STREET (US 150)

SHEET NO. 3 OF 3 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	144
CONTRACT NO. 89417				
[ILLINOIS] FED. AID PROJECT				

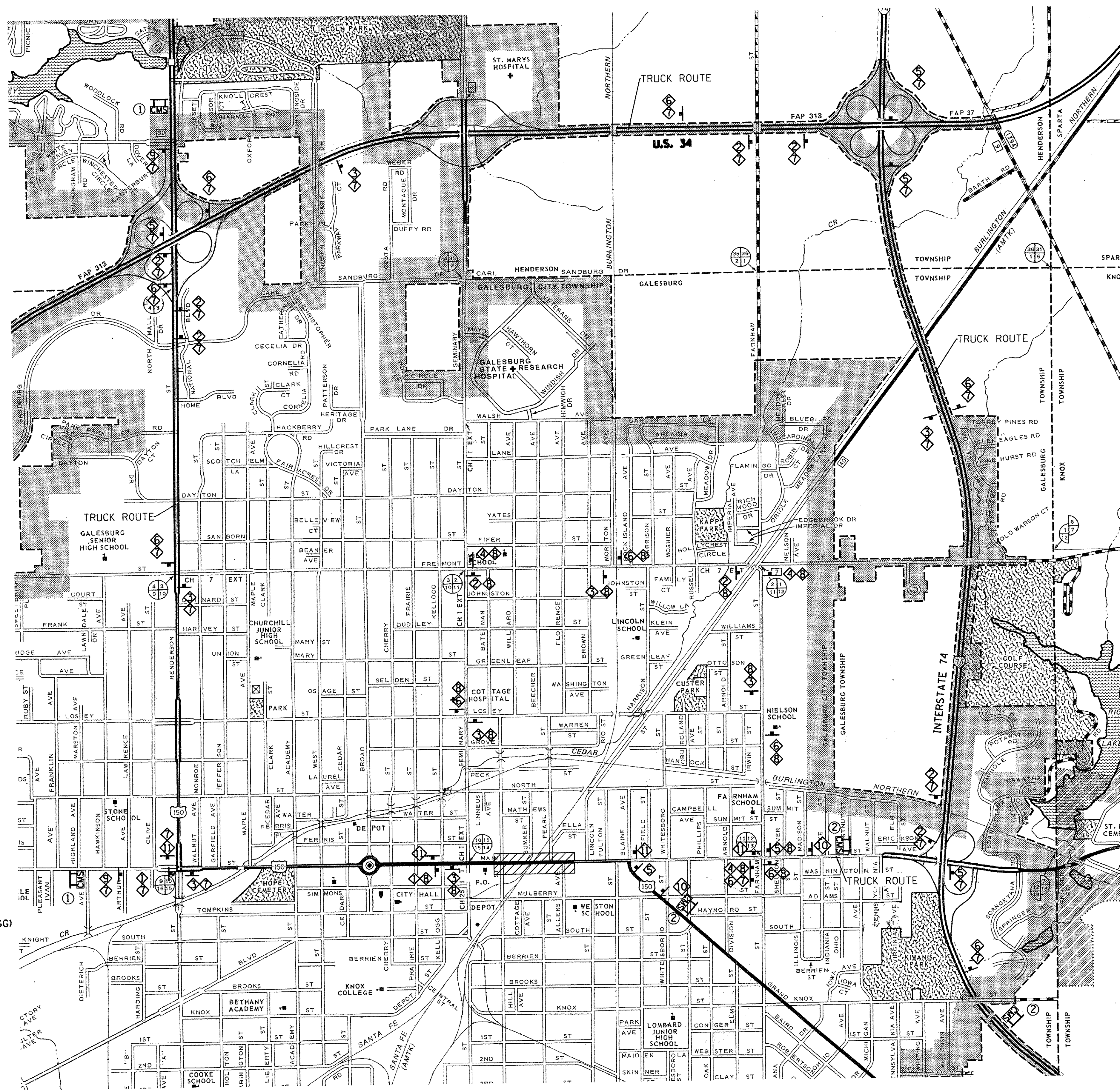
PROJECT: 05-00500-19-GS SECTION 50VB TRUCK DETOUR ROUTE
 DRAWN: ANDREW B. ANDERSON
 CHECKED: ANDREW B. ANDERSON
 DATE: 9/9/2015

DETOUR LEGEND

- ◇ EAST M3-2
- 150 MI-4.3
- ◀ DETOUR M4-10L
- ◇ EAST M3-2
- 150 MI-4.3
- ▶ DETOUR M4-10R
- ◇ EAST M3-2
- 150 MI-4.3
- DETOUR M4-8
- ↑ M6-3
- ◇ WEST M3-4
- 150 MI-4.3
- ◀ DETOUR M4-10L
- ◇ WEST M3-4
- 150 MI-4.3
- ▶ DETOUR M4-10R
- ◇ WEST M3-4
- 150 MI-4.3
- DETOUR M4-8
- ↑ M6-3
- ◇ W11-10
- ◇ NO TRUCKS R5-20

- ◻ CHANGEABLE MESSAGE SIGN
- SIGN COMBINATION
- ▨ WORK ZONE
- LOCAL TRAFFIC ONLY (FARNHAM, FREEMONT, SEMINARY/KELLOGG)
- TRUCK DETOUR ROUTE

- ① CMS TO READ FROM THE NORTH & WEST
CHANGEABLE MESSAGE SIGNS TO READ:
MAIN ST/US-150 CLOSED AT CHAMBERS ST.
USE MARKED DETOUR
- ② CMS TO READ FROM THE EAST & SOUTHEAST
CHANGEABLE MESSAGE SIGNS TO READ:
MAIN ST/US-150 CLOSED AT LINCOLN ST.
USE MARKED DETOUR



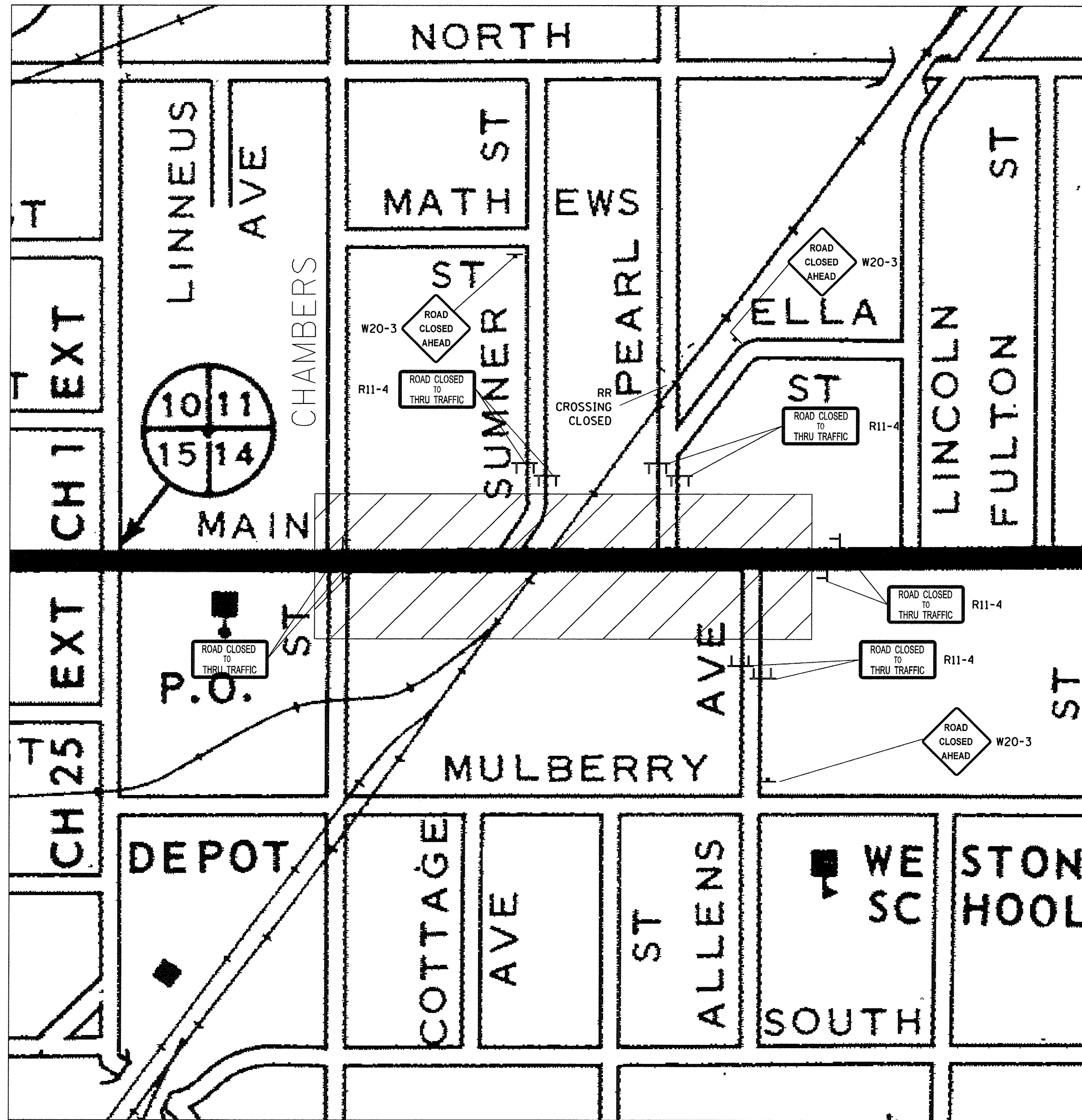
- ◇ EAST M3-2
- 150 MI-4.3
- ◇ DETOUR AHEAD W20-2
- ◇ WEST M3-4
- 150 MI-4.3
- ◇ DETOUR AHEAD W20-2
- ◇ END DETOUR M4-8A

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

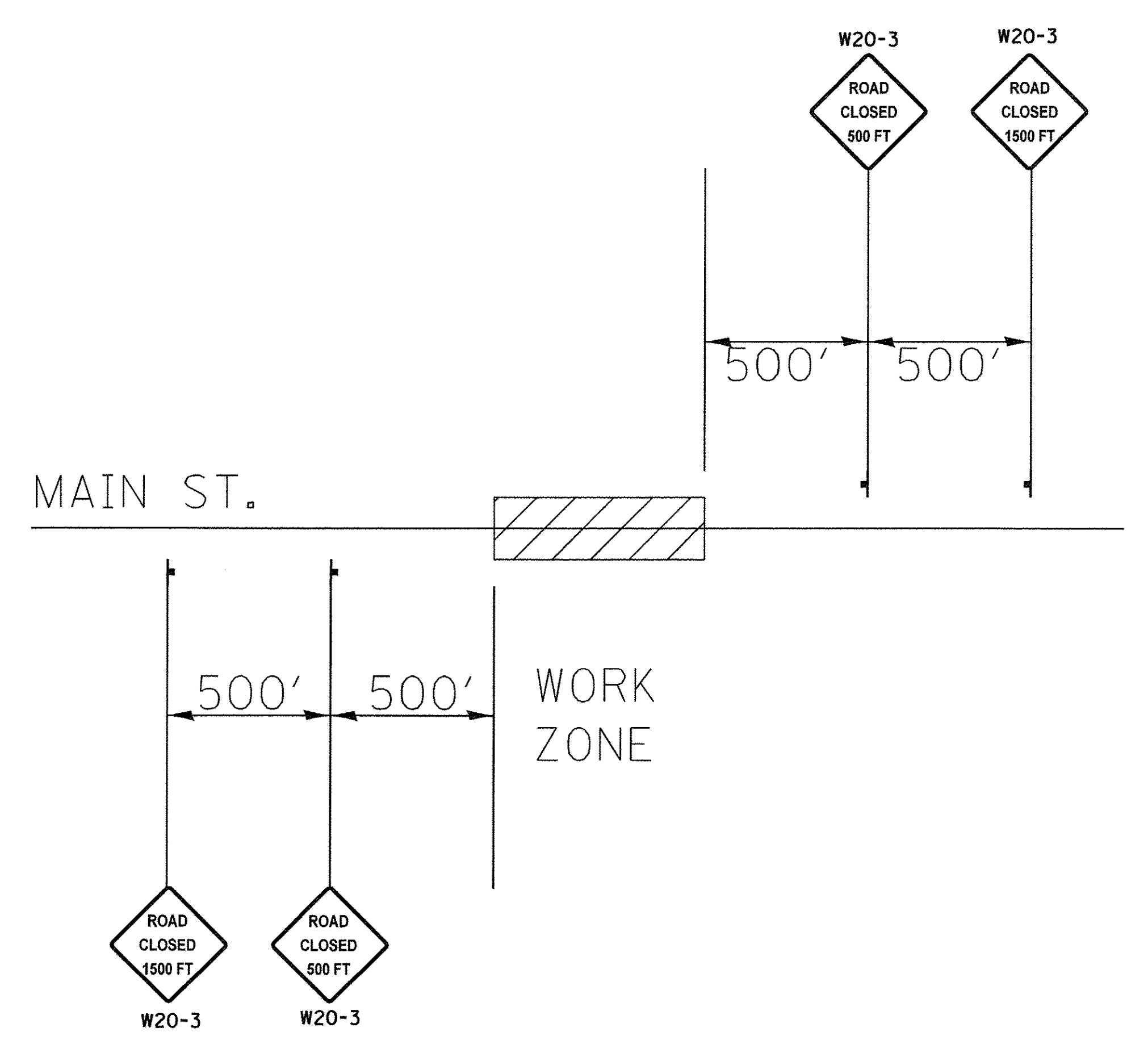
**TRAFFIC CONTROL PLAN
DETOUR SIGNAGE**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	145
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



ADVANCED ROAD CLOSURE SIGNAGE



- LEGEND**
- TT TYPE III BARRICADE
 - + SIGN COMBINATION
 - ▨ WORK ZONE

- NOTES:**
1. ROAD CONSTRUCTION AHEAD AND ROAD CLOSED SIGNS SHALL BE PLACED ACCORDING TO APPLICABLE IDOT STANDARD DETAILS FOR TRAFFIC CONTROL OR AS SHOWN IN THE PLANS. ENSURE THERE ARE NO CONFLICTING SIGN PLACEMENT BETWEEN ADVANCED ROAD CLOSURE SIGNAGE AND DETOUR SIGNAGE.
 2. CHAMBERS ST. AND MAIN ST. INTERSECTION SHALL BE CONSTRUCTED IN STAGES. SEE CONSTRUCTION STAGING PLANS FOR ADDITIONAL DETAILS.

LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME = andr-00846	DESIGNED -	REVISED -
DRAWN -	REVIEWED -	CHECKED -	REVISED -
DATE - 9/9/2015	REVISED -		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN
DETOUR SIGNAGE**

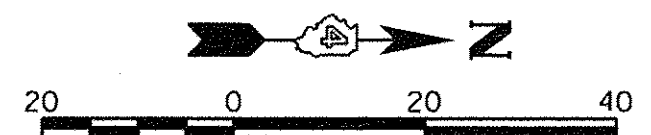
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	146
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MAINTENANCE OF TRAFFIC GENERAL NOTES - ALL STAGES

1. THE STAGING PROCEDURES SHOWN ARE THE SUGGESTED SEQUENCE OF CONSTRUCTION OPERATIONS. IT IS THE CONTRACTORS OPTION TO SUBMIT AN ALTERNATIVE STAGING PLAN TO THE ENGINEER FOR APPROVAL.
2. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND SECTION 701 OF THE STANDARD SPECIFICATIONS.
3. TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES.
4. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES WILL BE REMOVED BY THE CONTRACTOR AFTER THE PROPOSED TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER. ANY SIGNS OR DEVICES LEFT IN PLACE AT THIS TIME ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THIS WORK WILL BE PAID FOR BY THE CONTRACTOR.
5. THE FOLLOWING TRAFFIC CONTROL STANDARDS ARE THE MINIMUM REQUIREMENTS FOR THE TRAFFIC CONTROL FOR THE PROJECT: 701001, 701006, 701101, 701106, 701301, 701311, 701427, 701501, 701602, 701701, 701801, 701901, AND BLR 22-7.
6. TYPE III BARRICADES, DRUMS, AND TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT THE LIMITS OF THE WORK ZONE AS SHOWN ON THE DETOUR SIGNAGE PLAN AND AS REQUIRED BY THE TRAFFIC CONTROL STANDARDS.
7. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS WHEN IN CONFLICT WITH THE PROPOSED TEMPORARY PAVEMENT MARKINGS OR ROAD CLOSURES. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
8. DRUMS SHALL BE EQUIPPED WITH STEADY BURNING LIGHTS AND PLACED AT 20 FOOT CENTERS ON TAPER AND TANGENT SECTIONS.
9. ALL ADVANCED WARNING SIGNS AND TEMPORARY PAVEMENT MARKING SIGNS SHALL BE IN PLACE AND APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY STAGE OF CONSTRUCTION.
10. TRAFFIC CONTROL SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (SPECIAL).
11. ARROW BOARDS ARE REQUIRED FOR LANE CLOSURES AS SHOWN ON THE TRAFFIC CONTROL STANDARDS. ARROW BOARDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
12. THE FURNISHING, INSTALLATION, AND RELOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES, SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STATE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
13. ALL CONFLICTING TRAFFIC SIGNS/SIGNALS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
14. FOR STABILIZATION PURPOSES, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
15. ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION

16. AT 12 CHAMBERS STREET, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN AT ALL TIMES.
17. 515 E. MAIN, STAGE CONSTRUCTION OF THE CHAMBERS ST. ENTRANCE IS REQUIRED BEFORE THE MAIN ST. ENTRANCE IS REMOVED.
18. 476 E. MAIN STREET (SW QUADRANT): THE POSTAL SERVICE MUST MAINTAIN CONTINUOUS ACCESS TO THE FACILITY AS PART OF A FEDERAL MANDATE. INGRESS (THROUGH NORTHERN DRIVEWAY ALONG CHAMBERS STREET) AND EGRESS (THROUGH SOUTHERN DRIVEWAY ALONG CHAMBERS STREET) TO THIS FACILITY MUST BE MAINTAINED AT ALL TIMES. RECONSTRUCTION OF THE NORTHERLY ENTRANCE TO THIS FACILITY IS PROPOSED ALONG CHAMBERS STREET. A MINIMUM OF ONE (1) LANE (9 FOOT MINIMUM) INGRESS THROUGH THIS ENTRANCE IS REQUIRED AT ALL TIMES. THE CONTRACTOR WILL BE ASSESSED A \$10,000/DAY FINE IN CASE OF FAILURE TO MAINTAIN ACCESS TO THIS INGRESS POINT AT ALL TIMES.

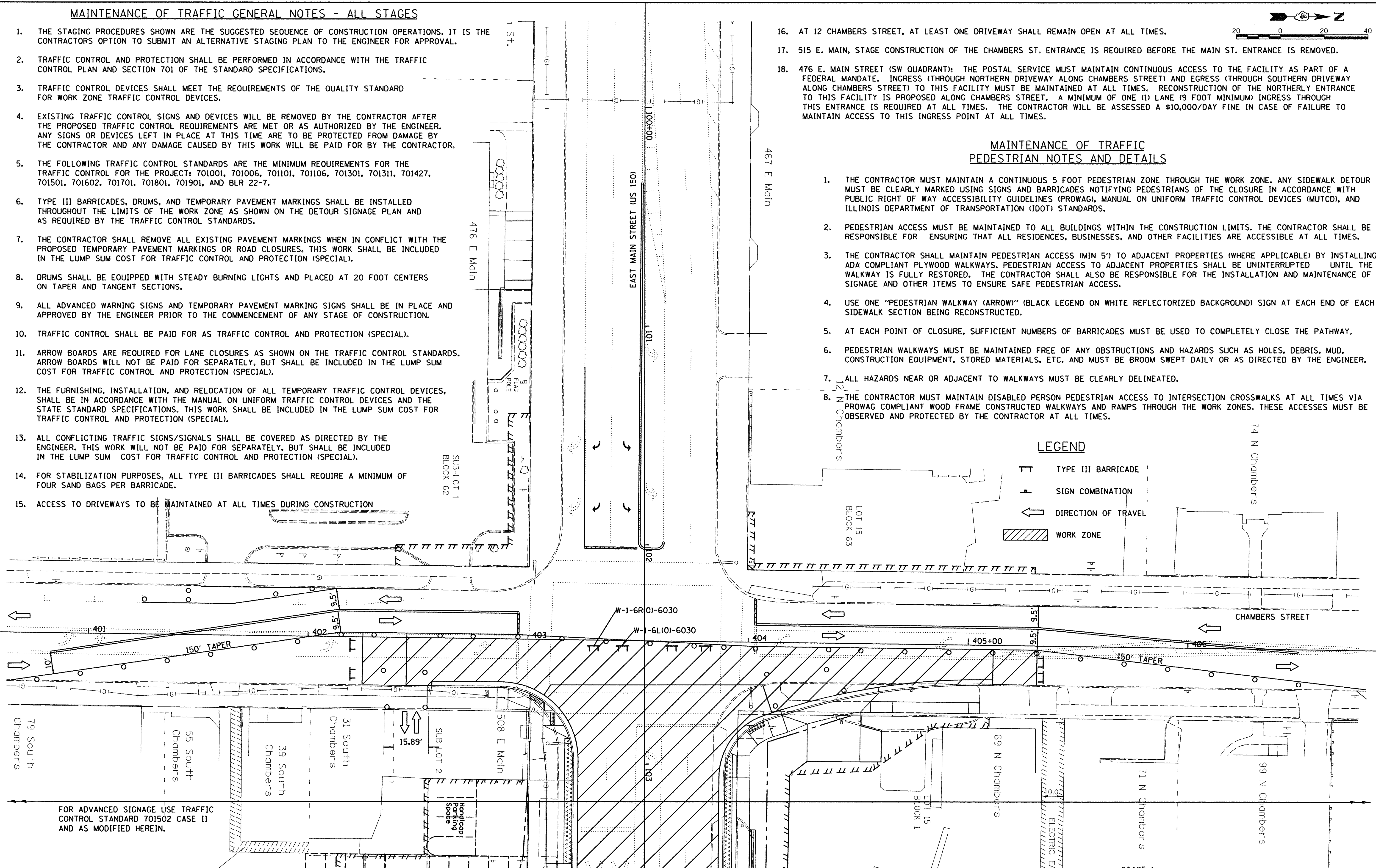


MAINTENANCE OF TRAFFIC PEDESTRIAN NOTES AND DETAILS

1. THE CONTRACTOR MUST MAINTAIN A CONTINUOUS 5 FOOT PEDESTRIAN ZONE THROUGH THE WORK ZONE. ANY SIDEWALK DETOUR MUST BE CLEARLY MARKED USING SIGNS AND BARRICADES NOTIFYING PEDESTRIANS OF THE CLOSURE IN ACCORDANCE WITH PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG), MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARDS.
2. PEDESTRIAN ACCESS MUST BE MAINTAINED TO ALL BUILDINGS WITHIN THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL RESIDENCES, BUSINESSES, AND OTHER FACILITIES ARE ACCESSIBLE AT ALL TIMES.
3. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS (MIN 5') TO ADJACENT PROPERTIES (WHERE APPLICABLE) BY INSTALLING ADA COMPLIANT PLYWOOD WALKWAYS. PEDESTRIAN ACCESS TO ADJACENT PROPERTIES SHALL BE UNINTERRUPTED UNTIL THE WALKWAY IS FULLY RESTORED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SIGNAGE AND OTHER ITEMS TO ENSURE SAFE PEDESTRIAN ACCESS.
4. USE ONE "PEDESTRIAN WALKWAY (ARROW)" (BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND) SIGN AT EACH END OF EACH SIDEWALK SECTION BEING RECONSTRUCTED.
5. AT EACH POINT OF CLOSURE, SUFFICIENT NUMBERS OF BARRICADES MUST BE USED TO COMPLETELY CLOSE THE PATHWAY.
6. PEDESTRIAN WALKWAYS MUST BE MAINTAINED FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC. AND MUST BE BROOM SWEEP DAILY OR AS DIRECTED BY THE ENGINEER.
7. ALL HAZARDS NEAR OR ADJACENT TO WALKWAYS MUST BE CLEARLY DELINEATED.
8. THE CONTRACTOR MUST MAINTAIN DISABLED PERSON PEDESTRIAN ACCESS TO INTERSECTION CROSSWALKS AT ALL TIMES VIA PROWAG COMPLIANT WOOD FRAME CONSTRUCTED WALKWAYS AND RAMPS THROUGH THE WORK ZONES. THESE ACCESSES MUST BE OBSERVED AND PROTECTED BY THE CONTRACTOR AT ALL TIMES.

LEGEND

- TYPE III BARRICADE
- SIGN COMBINATION
- DIRECTION OF TRAVEL
- WORK ZONE



FOR ADVANCED SIGNAGE USE TRAFFIC CONTROL STANDARD 701502 CASE II AND AS MODIFIED HEREIN.

TERRA
ENGINEERING LTD.

LAYOUT	
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REVIEWED	

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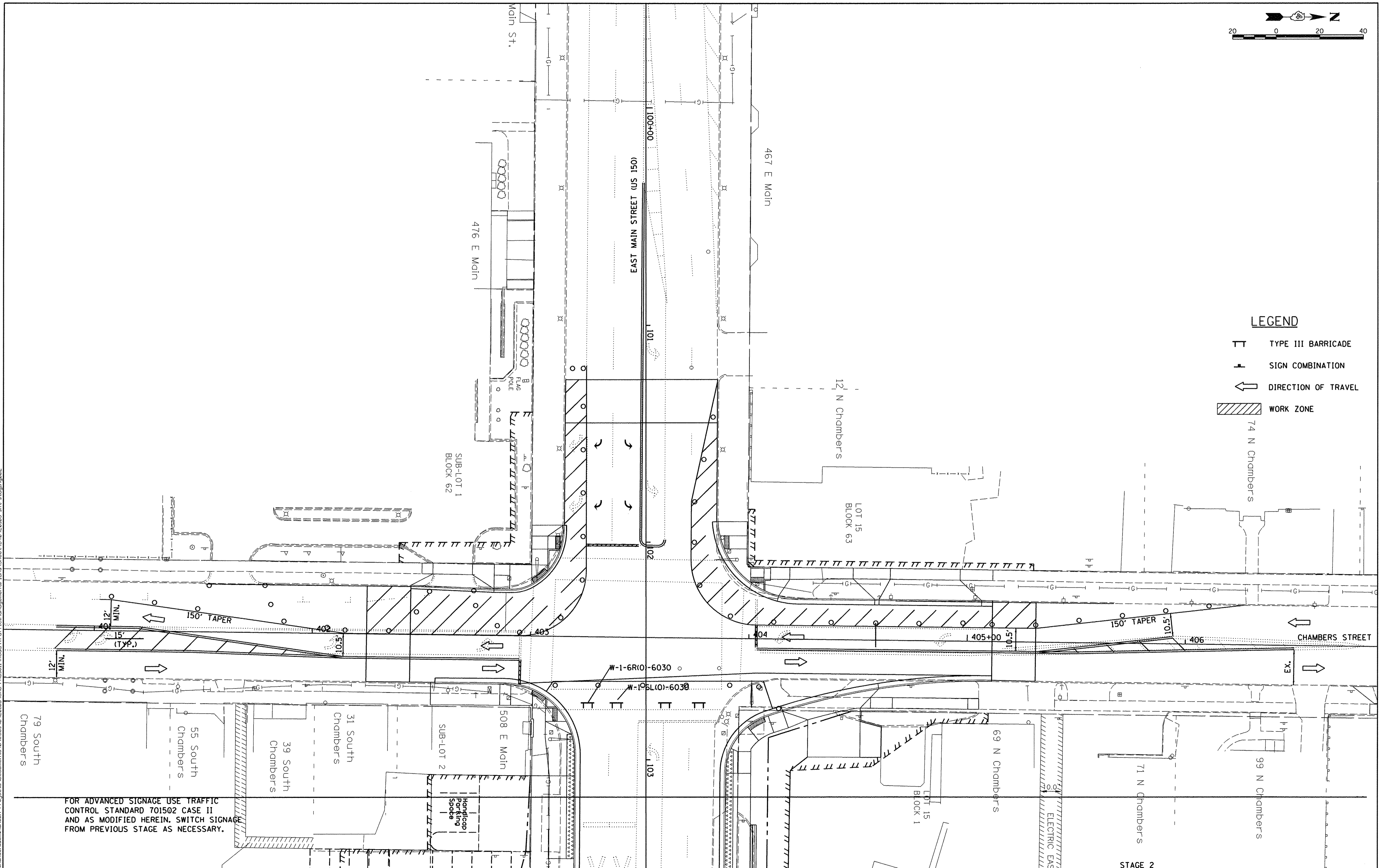
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHAMBERS STREET
CONSTRUCTION STAGING

SCALE: 1"=20'

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	147
	50VB			CONTRACT NO.89417
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



LEGEND

- TYPE III BARRICADE
- SIGN COMBINATION
- DIRECTION OF TRAVEL
- WORK ZONE

FOR ADVANCED SIGNAGE USE TRAFFIC CONTROL STANDARD 701502 CASE II AND AS MODIFIED HEREIN. SWITCH SIGNAGE FROM PREVIOUS STAGE AS NECESSARY.

STAGE 2

FILE NAME =	USER NAME = ander@8846	DESIGNED -	REVISED -
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	PLOT DATE = 9/8/2015	DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CHAMBERS STREET
CONSTRUCTION STAGING**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

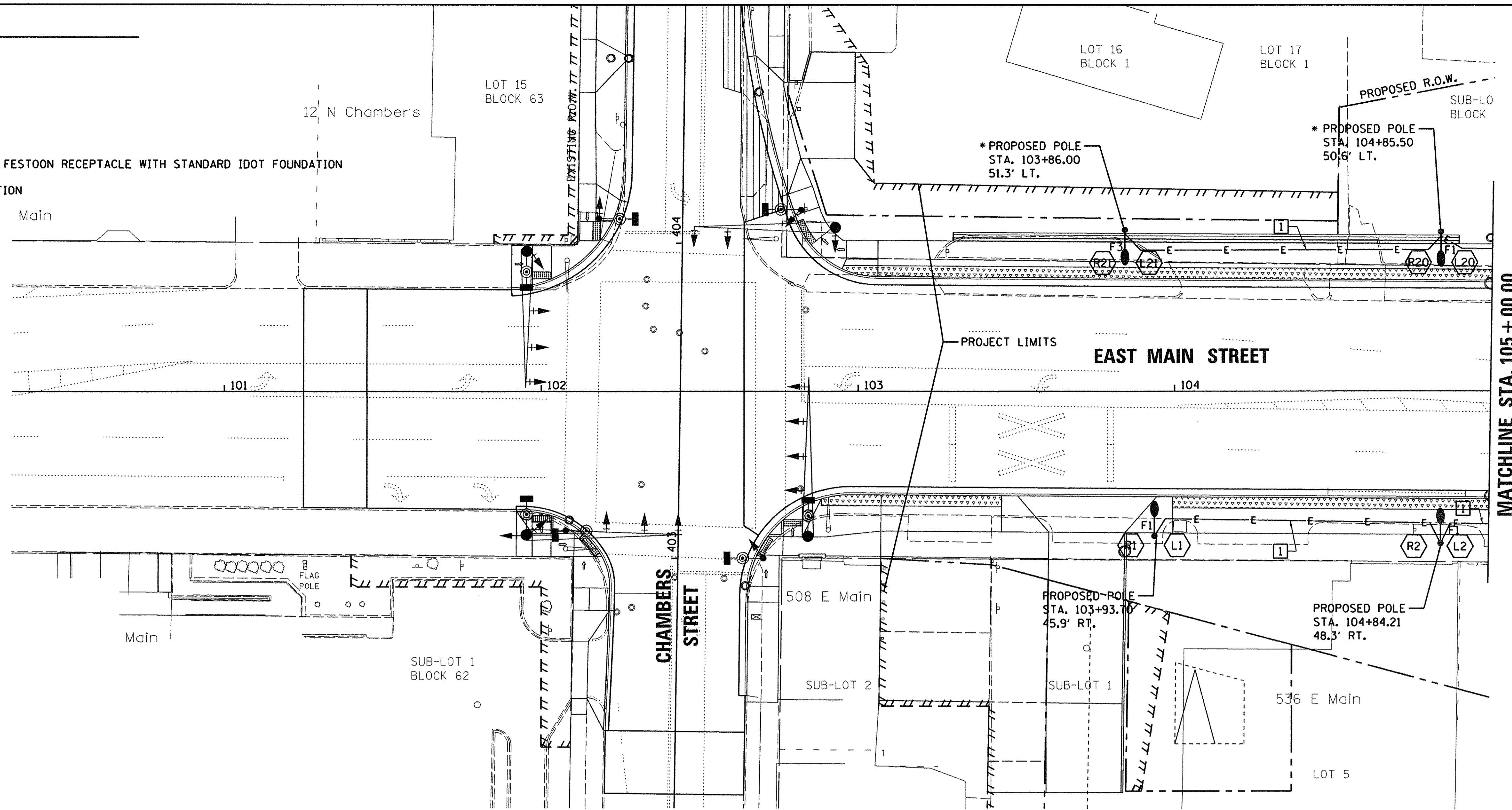
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	148
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LEGEND

- E— PROPOSED UNDERGROUND ELECTRIC LINE
- US— EXISTING UNDERGROUND SECONDARY ELECTRIC
- UP— EXISTING UNDERGROUND PRIMARY ELECTRIC
- - - - E - - - - PROPOSED PARAPET MOUNTED ELECTRIC LINE
- PROPOSED ROADWAY LIGHT POLE/FIXTURE WITH FESTOON RECEPTACLE WITH STANDARD IDOT FOUNDATION
- PROPOSED LIGHTING CONTROLLER WITH FOUNDATION
- EXISTING ROADWAY LIGHT POLE/FIXTURE
- POWER POLE
- PROPOSED JUNCTION BOX
- LIGHTING POLE TAG/SEQUENCE NUMBER
- FESTOON RECEPTACLE TAG/SEQUENCE NUMBER

LIGHTING GENERAL NOTES:

1. UTILIZE 2-POLE FUSE HOLDER WITH SOLID NEUTRAL INPOLE HANDHOLE FOR RECEPTACLE WIRING.



PLAN KEYED NOTES:

- 1 LTG 2*8, #8 GRD, RCPT 2*6, #6 GRD, 2" C. PVC.

* POLES AT 103+86.00 AND 104+85.50 SHALL BE PLACED AFTER THE INSTALLATION OF SOLDIER PILE RETAINING WALL. POLES SHALL BE PLACED DIRECTLY BEHIND (NORTH OF) SOLDIER PILE AT THIS LOCATION. THE TOP OF THE POLE FOUNDATION SHALL BE 1" ABOVE THE TOP OF THE GUTTER BEHIND THE WALL.

LAYOUT	
DRAWN	
REVIEWED	

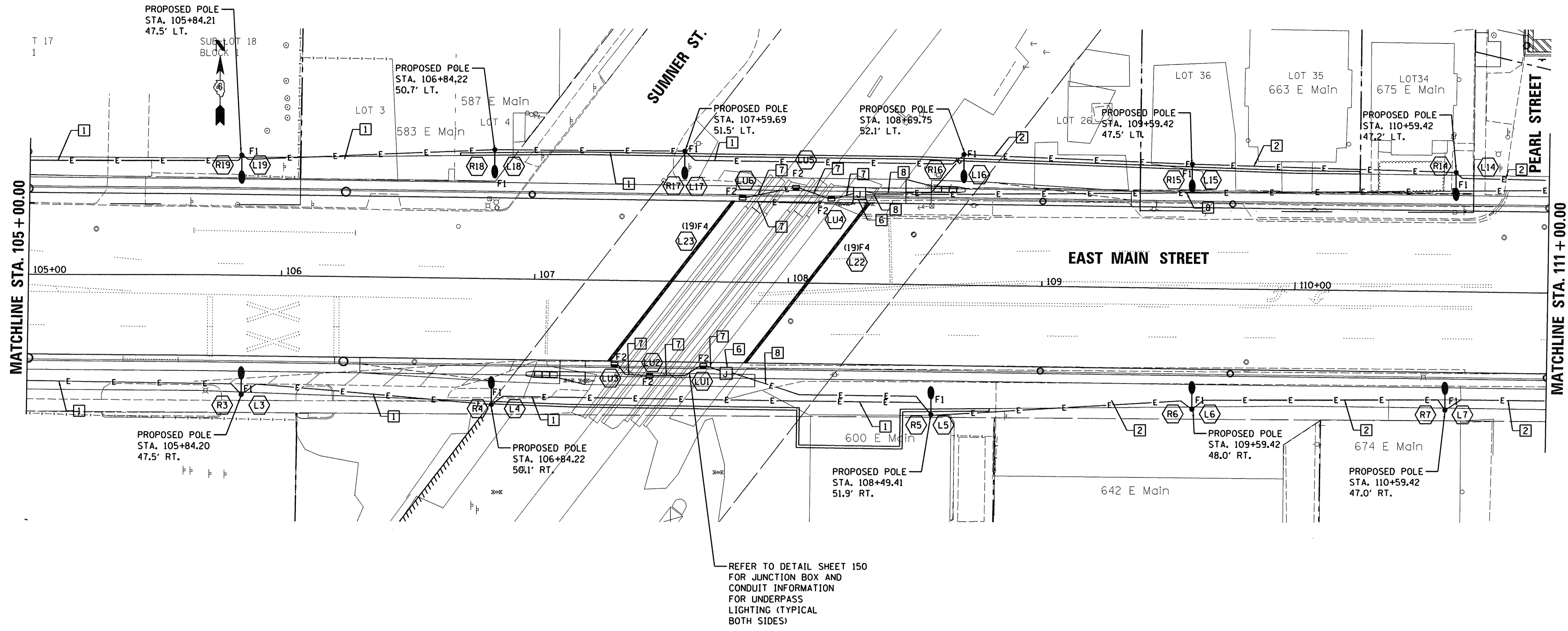
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PLOT DATE = 9/8/2015		DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
LIGHTING PLAN**

SCALE: 1:20 SHEET NO. 1 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	149
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



REFER TO DETAIL SHEET 150 FOR JUNCTION BOX AND CONDUIT INFORMATION FOR UNDERPASS LIGHTING (TYPICAL BOTH SIDES)

LEGEND

- E — PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED ROADWAY LIGHT POLE/FIXTURE WITH FESTOON RECEPTACLE WITH STANDARD IDOT FOUNDATION
- ⊠ PROPOSED LIGHTING CONTROLLER WITH FOUNDATION
- ⊗ EXISTING ROADWAY LIGHT POLE/FIXTURE
- POWER POLE
- Ⓜ PROPOSED JUNCTION BOX
- - - E - - - PROPOSED PARAPET MOUNTED ELECTRIC LINE
- ▬ UNDERPASS LIGHTING
- ▨ BRIDGE DECORATIVE LIGHTING



LIGHTING GENERAL NOTES

1. UTILIZE 2-POLE FUSE HOLDER WITH SOLID NEUTRAL INPOLE HANDHOLE FOR RECEPTACLE WIRING.

PLAN KEYED NOTES:

- 1 LTG 2*8, #8 GRD, RCPT 2*6, #8 GRD, 2"C. PVC.
- 2 LTG 4*8, #8 GRD, RCPT 2*6, #8 GRD, 2"C. PVC.
- 3 LTG 4*8, #8 GRD, RCPT 2*6, #8 GRD, 2"C. PVC.
- 4 LTG 4*8, RCPT 2*6, #6 GRD, 1"C. PVC. COATED GALVANIZED STEEL ATTACHED TO STRUCTURE.
- 5 3" GALVANIZED STEEL UP TO UTILITY POLE WITH 3 #3/0.
- 6 12"x12"x8" JUNCTION BOX MOUNTED ON CONCRETE WALL TO SERVE NEW UNDERPASS LIGHTING BRIDGE FASCIA.
- 7 LTG 2*8, #6 GRD, 1"C, PVC, COATED GALVANIZED STEEL ATTACHED TO STRUCTURE.
- 8 LTG 2*8, #8 GRD, 1"C. PVC.

LAYOUT	
DRAWN	
REVIEWED	

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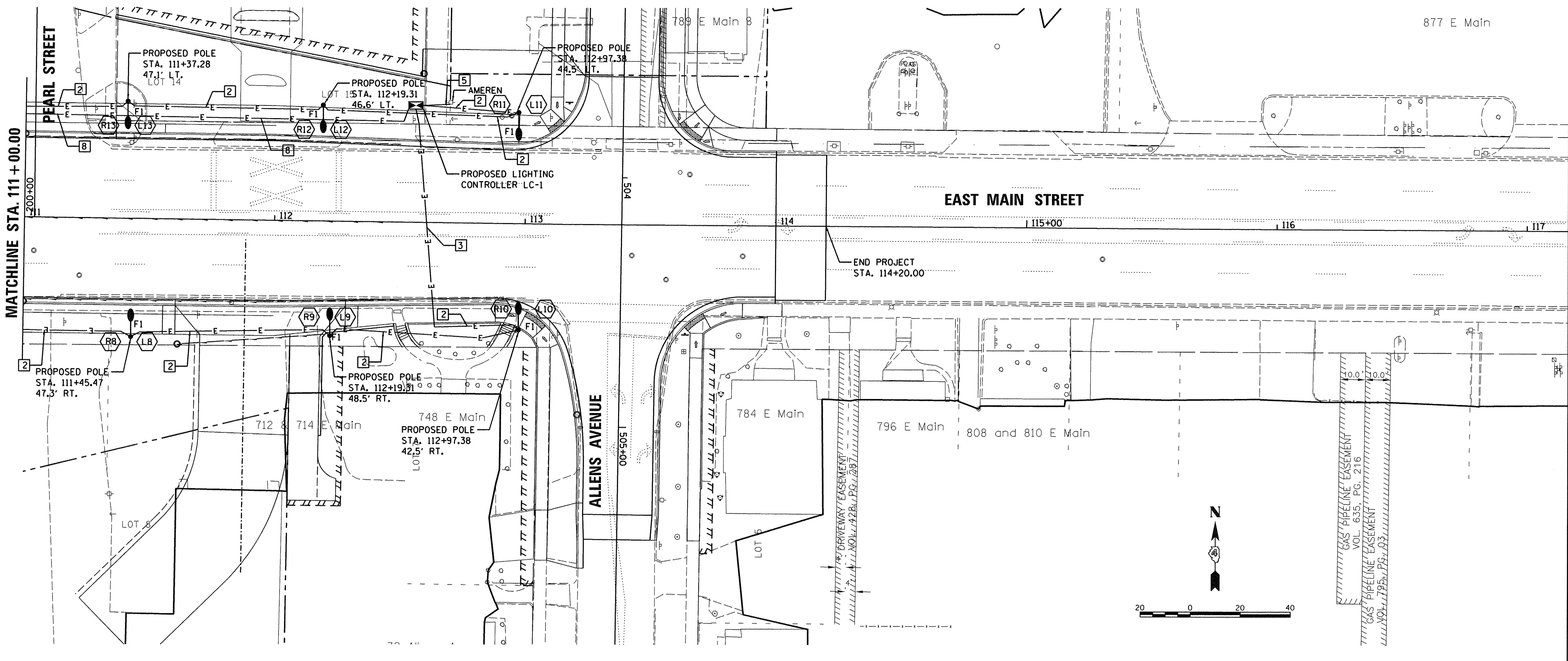
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
LIGHTING PLAN**

SCALE: 1:20 SHEET NO. 2 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	150
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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 PLOT DATE = 9/8/2015



LEGEND

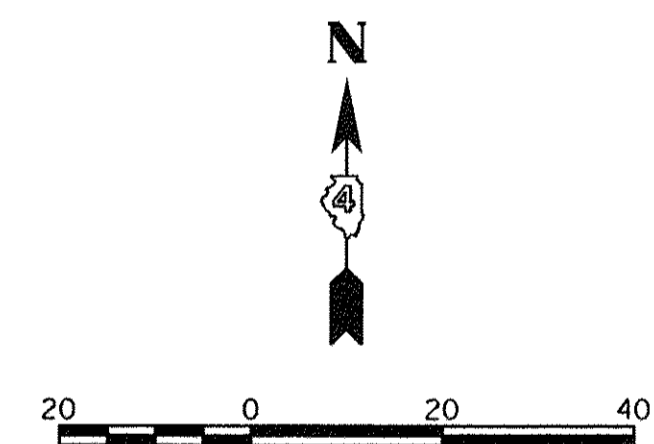
- E----- PROPOSED PARAPET MOUNTED ELECTRIC LINE
- ⦿ PROPOSED ROADWAY LIGHT POLE/FIXTURE WITH FESTOON RECEPTACLE WITH STANDARD IDOT FOUNDATION
- ⊠ PROPOSED LIGHTING CONTROLLER WITH FOUNDATION
- ⊗ EXISTING ROADWAY LIGHT POLE/FIXTURE
- POWER POLE
- E— PROPOSED UNDERGROUND ELECTRIC LINE

LIGHTING GENERAL NOTES

1. UTILIZE 2-POLE FUSE HOLDER WITH SOLID NEUTRAL INPOLE HANDHOLE FOR RECEPTACLE WIRING.

PLAN KEYED NOTES:

- 1 LTG 2*8, #8 GRD, RCPT 2*6, #8 GRD, 2" C. PVC.
- 2 LTG 4*8, #8 GRD, RCPT 2*6, #8 GRD, 2" C. PVC.
- 3 LTG 4*8, #8 GRD, RCPT 2*6, #8 GRD, 2" C. PVC.
- 4 LTG 4*8, RCPT 2*6, #6 GRD, 1" C. PVC. COATED GALVANIZED STEEL ATTACHED TO STRUCTURE.
- 5 3" GALVANIZED STEEL UP TO UTILITY POLE WITH 3 #3/0.
- 6 12"x12"x8" JUNCTION BOX MOUNTED ON CONCRETE WALL TO SERVE NEW UNDERPASS LIGHTING.
- 8 LTG 2*8, #8 GRD, 1" C. PVC.



LAYOUT	
DRAWN	
REVIEWED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
LIGHTING PLAN**

SCALE: 1:20 SHEET NO. 3 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	151
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

PAY ITEM	UNIT	S	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH		1
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT		2092
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT		122
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT		122
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH		4
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH		6
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 8"	EACH		4
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT		4200
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT		6175
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT		6151
LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP (DUAL)	EACH		1
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT		195
UNDERPASS LUMINAIRE (SPECIAL)	EACH	*	6
ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	*	21
LUMINAIRE (SPECIAL)	EACH	*	38

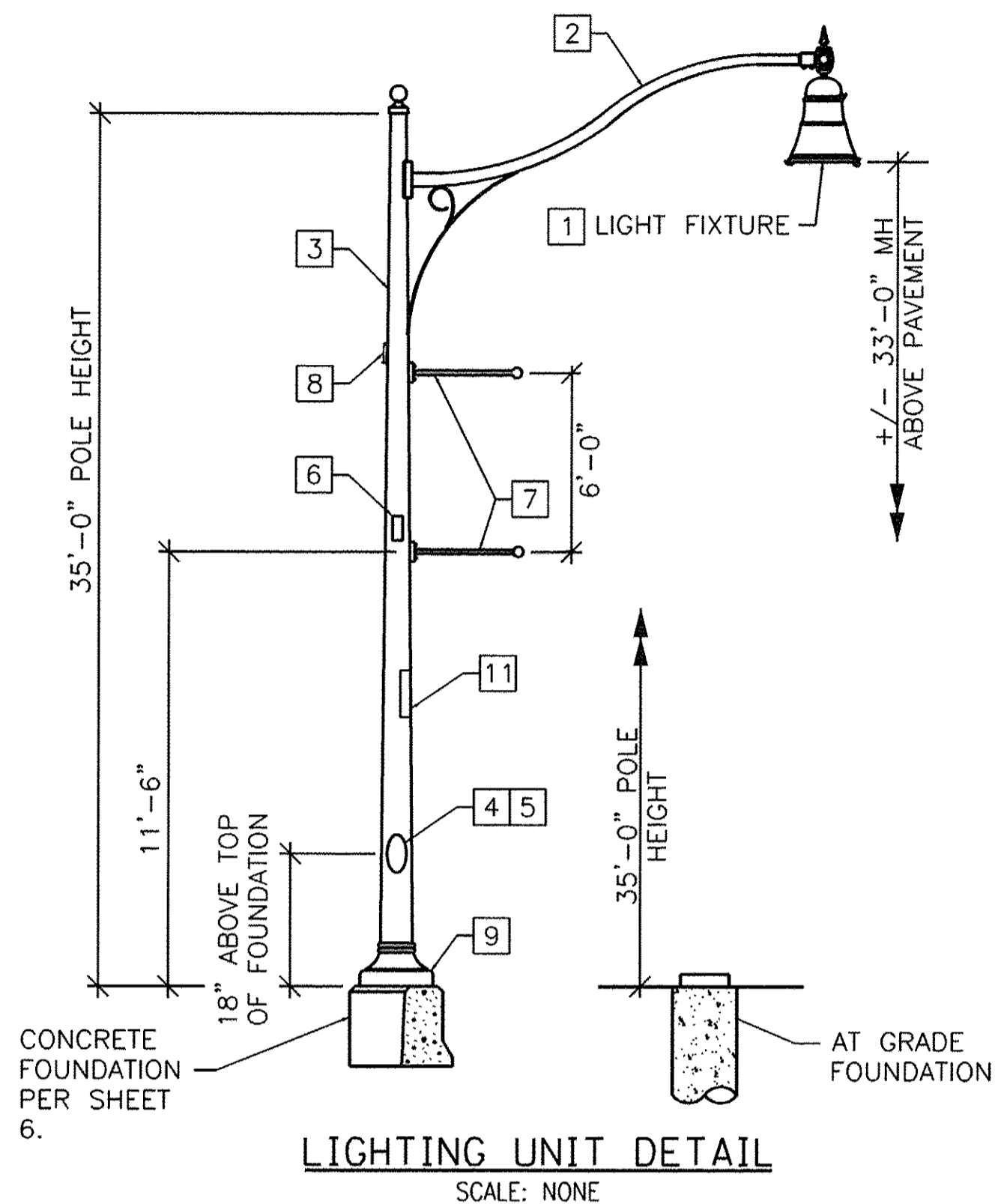
ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE-DECORATIVE ROADWAY LUMINAIRE		
GIVEN CONDITIONS		
ROADWAY DATA:	PAVEMENT WIDTH	24 FT
	NUMBER OF LANES	2 + PATHWAY
	MEDIAN WIDTH	12 FT
	IES SURFACE CLASSIFICATION	R3
	O-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	33 FT
	MAST ARM LENGTH	8 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	13 FT
LUMINAIRE DATA:	LAMP TYPE	160W LED
	LAMP LUMENS	12,890
	IES VERTICAL DISTRIBUTION	
	IES CONTROL OF DISTRIBUTION	
	IES LATERAL DISTRIBUTION	TYPE III
	TOTAL LIGHT LOSS FACTOR	0.684
LAYOUT DATA:	SPACING	100 FT
	CONFIGURATION	OPPOSITE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	-5 FT.
NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.		
PERFORMANCE REQUIREMENTS		
NOTE: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.		
ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (EAVE)	
	UNIFORMITY RATIO, (EAVE/EMIN)	
LUMINANCE:	AVERAGE LUMINANCE: (LAVE)	0.9 Cd/m2
	UNIFORMITY RATIOS: (LAVE/LMIN)	3.0
	(LMAX/LMIN)	6.0
	MAXIMUM VEILING	
	LUMINANCE RATIO: (LV/LAVE)	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE-UNDERPASS LUMINAIRE		
GIVEN CONDITIONS		
ROADWAY DATA:	PAVEMENT WIDTH	24 FT
	NUMBER OF LANES	2 + PATHWAY
	MEDIAN WIDTH	12 FT
	IES SURFACE CLASSIFICATION	R3
	O-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	16 FT
	MAST ARM LENGTH	NA
	POLE SET-BACK FROM EDGE OF PAVEMENT	38.5 FT
LUMINAIRE DATA:	LAMP TYPE	LED
	LAMP LUMENS	11,340
	IES VERTICAL DISTRIBUTION	
	IES CONTROL OF DISTRIBUTION	
	IES LATERAL DISTRIBUTION	TYPE 5
	TOTAL LIGHT LOSS FACTOR	0.684
LAYOUT DATA:	SPACING	35 FT
	CONFIGURATION	OPPOSITE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	-5 FT.
NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.		
PERFORMANCE REQUIREMENTS		
NOTE: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.		
ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (EAVE)	
	UNIFORMITY RATIO, (EAVE/EMIN)	
LUMINANCE:	AVERAGE LUMINANCE: (LAVE)	0.9 Cd/m2
	UNIFORMITY RATIOS: (LAVE/LMIN)	3.0
	(LMAX/LMIN)	6.0
	MAXIMUM VEILING	
	LUMINANCE RATIO: (LV/LAVE)	0.3

LIGHTING FIXTURE SCHEDULE

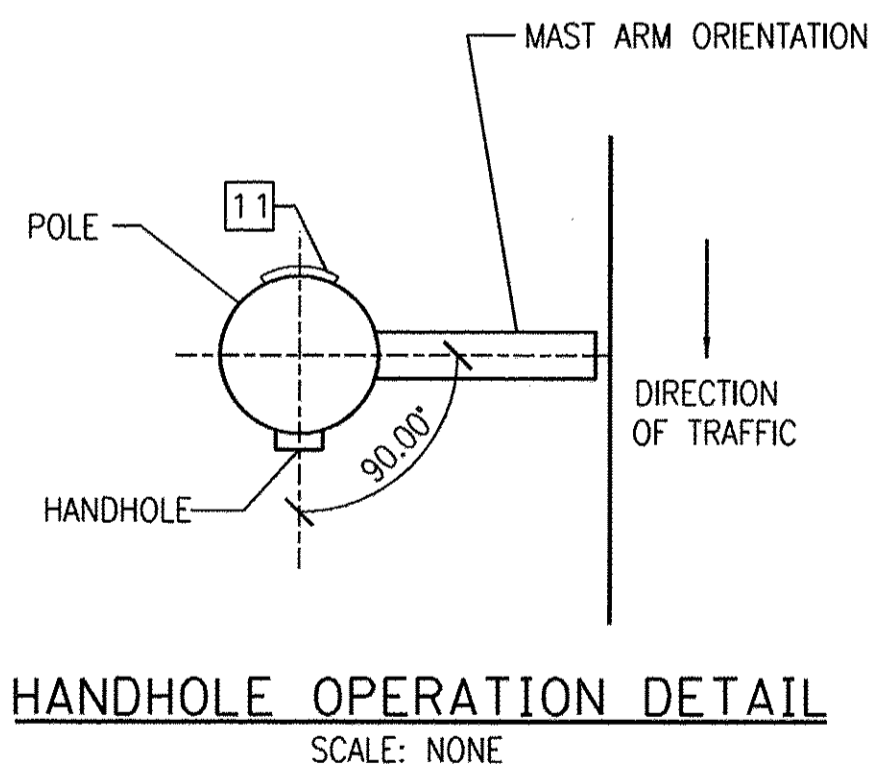
FIXT. TYPE	DESCRIPTION	MANUFACTURER & CATALOG NO.	LAMPS / WATTS	VOLTS	MOUNTING
F1	POLE MOUNTED DECORATIVE HEAD ROADWAY LUMINAIRE, HEAVY GAUGE ALUMINUM HOUSING, FULLY GASKETED FOR WEATHER AND BUG TIGHTNESS, BAKED ON BLACK POLYESTER POWDER COAT FINISH, ANODIZED ALUMINUM TYPE III FULL CUTOFF OPTICS, TEMPERED GLASS LENS, MEDIUM BASE PORCELAIN SOCKET, HPF CWA PULSE START TYPE BALLAST, UL LISTED WET LOCATIONS	STERNBERG: 1-1527RLED/ FG/ HS-B / CAS8 / 3035ARTS-EXT / BCC4 / 10ARC45T3-MDL03 / 1-GFI-IUC / 1-BDBA / VD / BK OR APPROVED EQUAL	LED, 160W	240 (MULTI-TAP BALLAST)	A 35'-0" POLE WITH AN 8'-0" MAST ARM. PROVIDE SINGLE BANNER ARM AND GFCI WEATHERPROOF RECEPTACLE (GFI), FIXTURE MOUNTING HEIGHT 33'-0"
F2	LED UNDERPASS LIGHTING LUMINAIRE, UL LISTED WET LOCATIONS	KENALL / LUXTRAN-DLD 1622-LED SERIES OR APPROVED EQUAL	LED-106 WATT	240 VOLT	MOUNTED AT 16'-0"
F3	POLE MOUNTED DECORATIVE HEAD ROADWAY LUMINAIRE, HEAVY GAUGE ALUMINUM HOUSING, FULLY GASKETED FOR WEATHER AND BUG TIGHTNESS, BAKED ON BLACK POLYESTER POWDER COAT FINISH, ANODIZED ALUMINUM TYPE III FULL CUTOFF OPTICS, TEMPERED GLASS LENS, MEDIUM BASE PORCELAIN SOCKET, HPF CWA PULSE START TYPE BALLAST, UL LISTED WET LOCATIONS	STERNBERG: 1-1527RLED/ FG/ HS-B / CAS8 / 3035ARTS-EXT / BCC4 / 10ARC45T3-MDL03 / 1-GFI-IUC / 1-BDBA / VD / BK OR APPROVED EQUAL	LED, 160W	240 (MULTI-TAP BALLAST)	A 30'-0" POLE WITH AN 8'-0" MAST ARM. PROVIDE SINGLE BANNER ARM AND GFCI WEATHERPROOF RECEPTACLE (GFI), FIXTURE MOUNTING HEIGHT 33'-0"
F4	DECORATIVE BRIDGE LIGHTING	LUMEN PULSE: FIXTURE-LOG RO 240 48 40K 30X60 WAM12 BK NO ETE: LEADER CABLE-LOGLC UL ETE 25 BK OR APPROVED EQUAL	LED	240 VOLT	ARM

FILE NAME =	USER NAME = onder-00846	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST MAIN STREET SUMMARY OF QUANTITIES, LUMINAIRE AND FIXTURE TABLES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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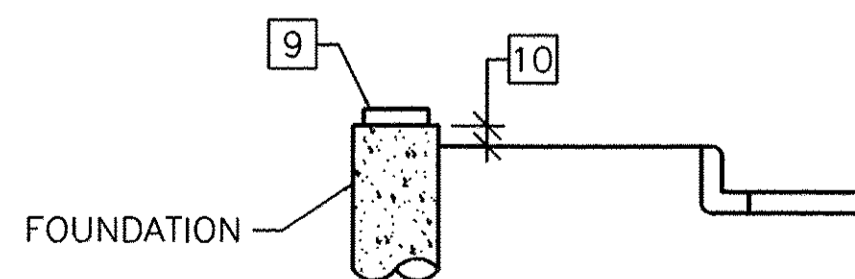


KEYED NOTES:

- 1 LED, VERTICAL MOUNT (DECORATIVE), LUMINAIRE, TYPE III DISTRIBUTION, BLACK FINISH.
- 2 8'-0" DECORATIVE ALUMINUM MAST ARM WITH BLACK GLOSS FINISH.
- 3 ONE PIECE SEAMLESS ROUND TAPERED ALUMINUM POLE WITH BLACK GLOSS FINISH, WALL THICKNESS 0.25".
- 4 4" x 8" HANDHOLE.
- 5 POLES SHALL HAVE A GROUND LUG OPPOSITE HANDHOLE.
- 6 INTERNAL VIBRATION DAMPENER.
- 7 BANNER ARM WITH PLANTER HOOK RECEPTACLE, BLACK GLOSS FINISH. (BANNER 72"x36")
- 8 WEATHERPROOF DUPLEX RECEPTACLE (WEATHER RESISTANT GFI).
- 9 LOW PROFILE BASE COVER (BLACK).
- 10 TOP OF CONCRETE FOUNDATION SHALL BE 1 1/2" ABOVE TOP OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 11 POLE IDENTIFICATION



HANDHOLE OPERATION DETAIL
SCALE: NONE



AT GRADE FOUNDATION DETAIL
SCALE: NONE

NOTE:

UNITS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS CURRENT AT THE TIME THE PROJECT IS ADVERTISED. DESIGN WIND VELOCITY SHALL BE 90 MPH WITH A MINIMUM DESIGN LIFE OF 50 YEARS. IN ADDITION TO THE AASHTO CRITERIA, THE POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION SET FORTH IN ARTICLE 1069.01(O) OF THE STANDARD SPECIFICATIONS FOR A DESIGN LUMINAIRE HAVING AN EPA OF 1.6 SQUARE FT AND MAXIMUM WEIGHT OF 75 LBS INCLUDING ALL ATTACHMENTS.

SEE STANDARD 830001-03 FOR LIGHT POLE BASE AND MOUNTING DETAILS.

SEE STANDARD 821101-01 FOR POLE LUMINAIRE WIRING AND POLE FESTOON OUTLET WIRING.

LAYOUT	
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REVIEWED	

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PLOT DATE = 9/8/2015

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE - 9/9/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

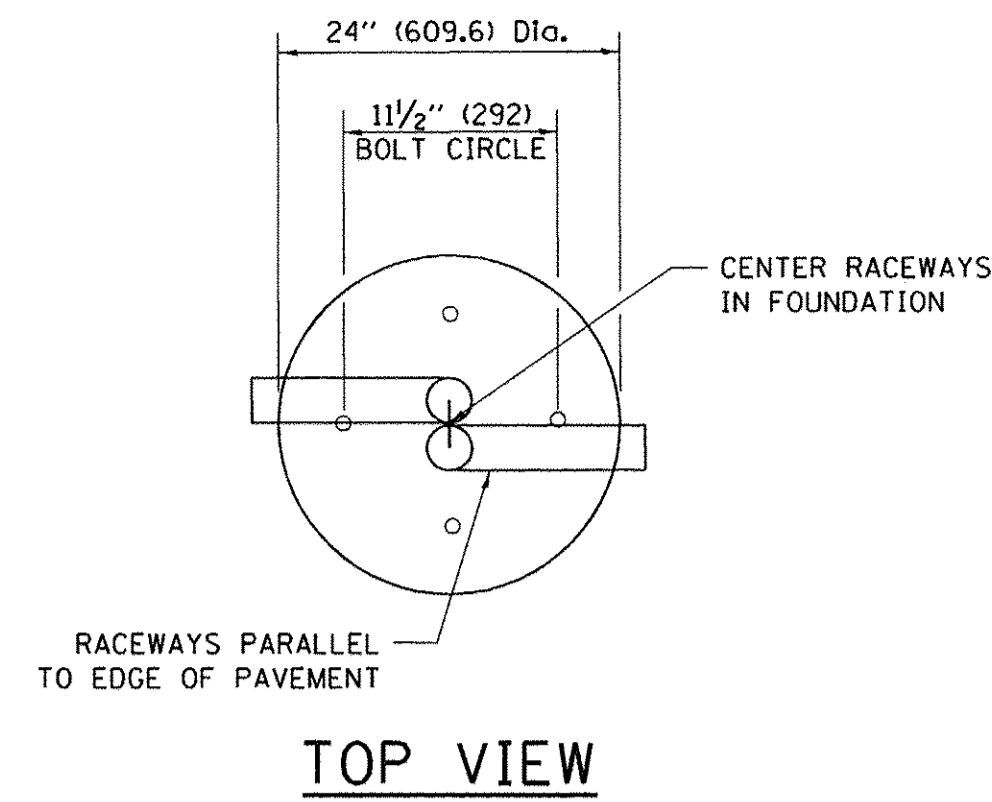
EAST MAIN STREET
LIGHTING DETAIL

SCALE: SHEET NO. 5 OF 11 SHEETS STA. TO STA.

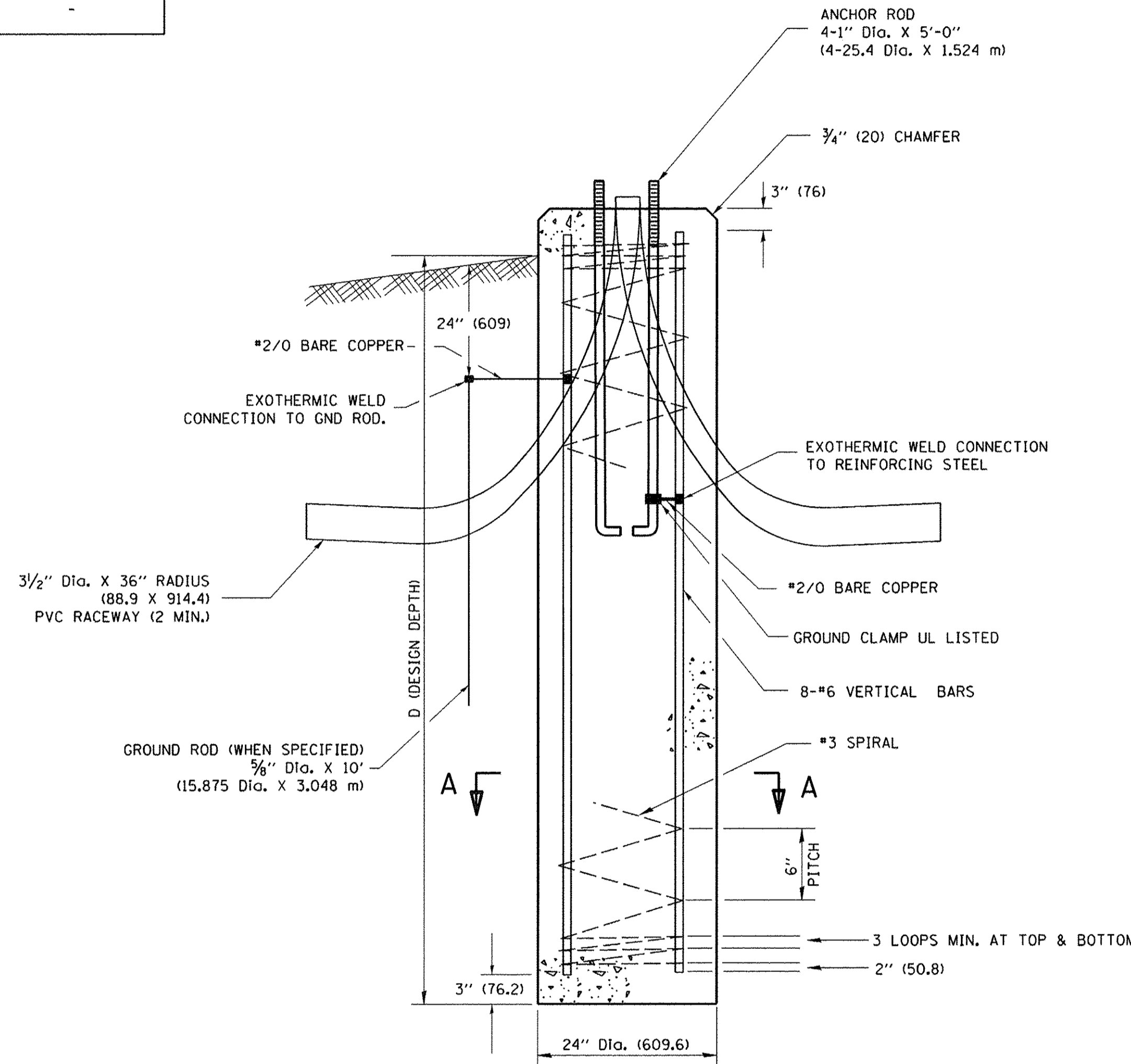
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	153
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

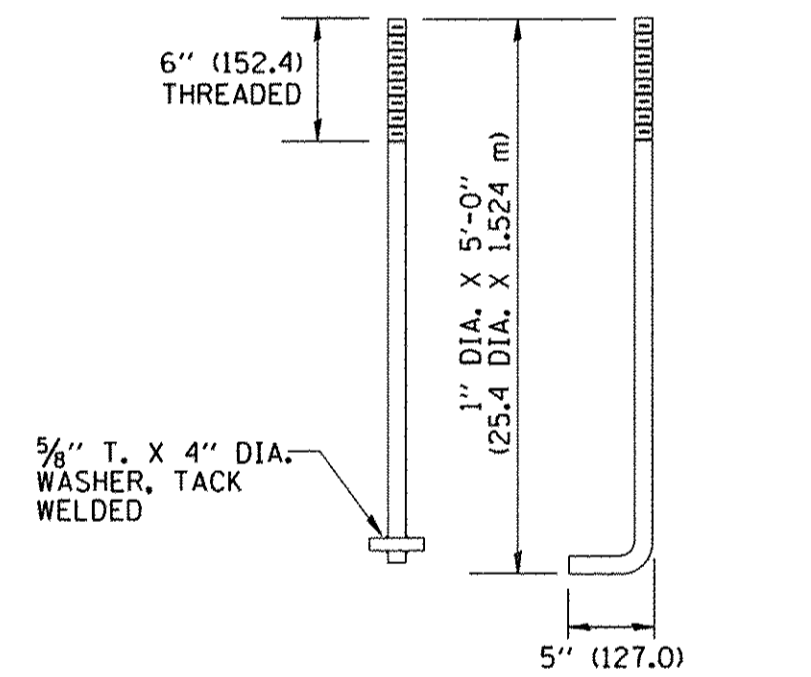
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION		USE FOR LIGHTING POLE TAG #
	SINGLE ARM POLE	TWIN ARM POLE	
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	-	3, 4, 19
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-0" (2.74 m)	-	1, 2, 5-18, 20, 21
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	-	-
LOOSE SAND φ = 34°	9'-6" (2.90 m)	-	-
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	-	-
DENSE SAND φ = 40°	8'-3" (2.51 m)	-	-



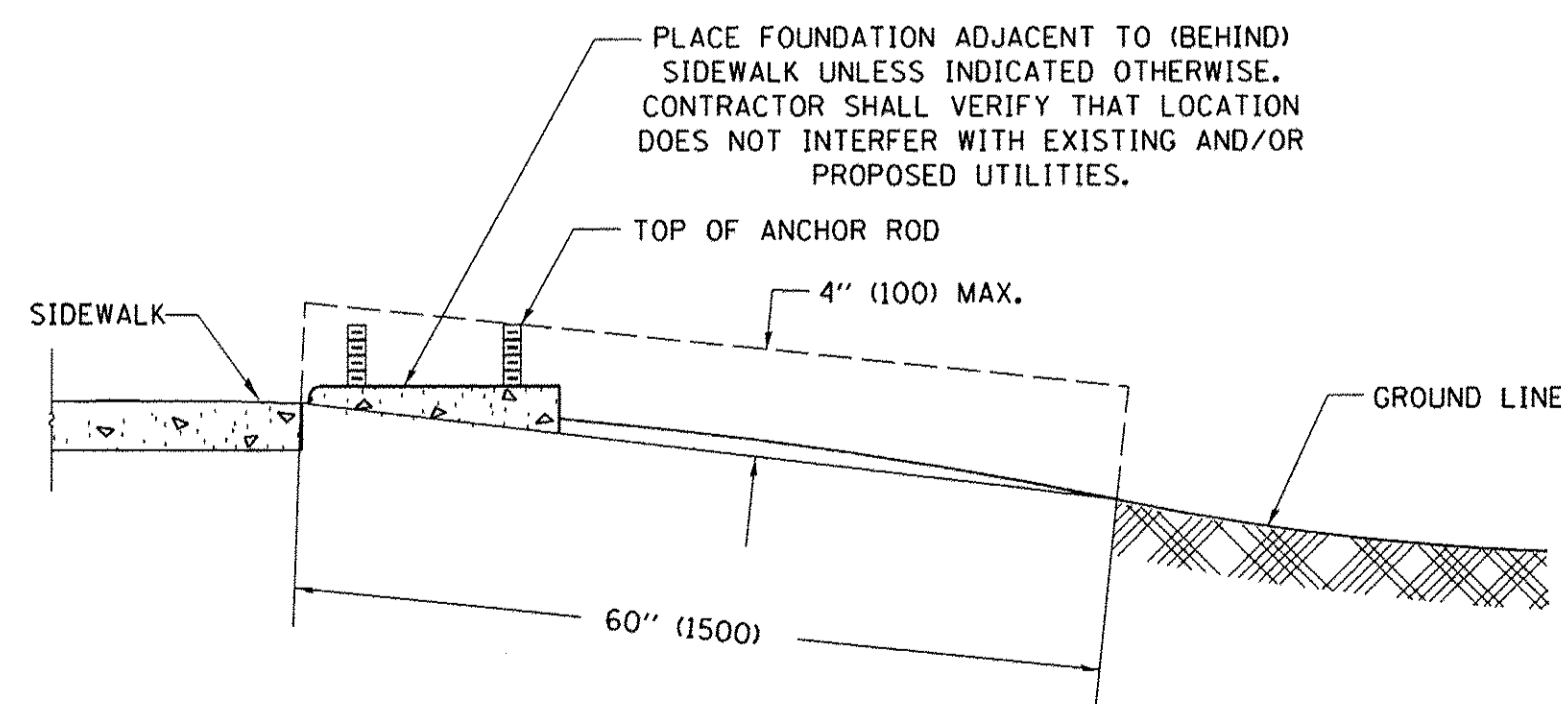
TOP VIEW



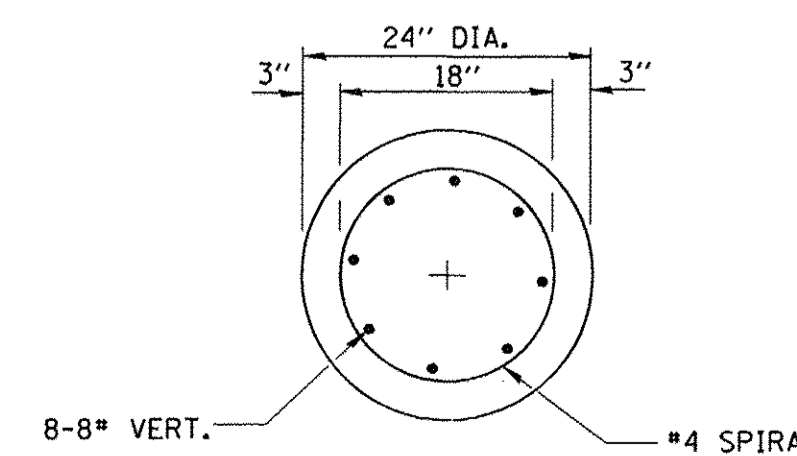
FOUNDATION DETAIL



ANCHOR BOLT DETAIL



FOUNDATION EXTENSION DETAIL

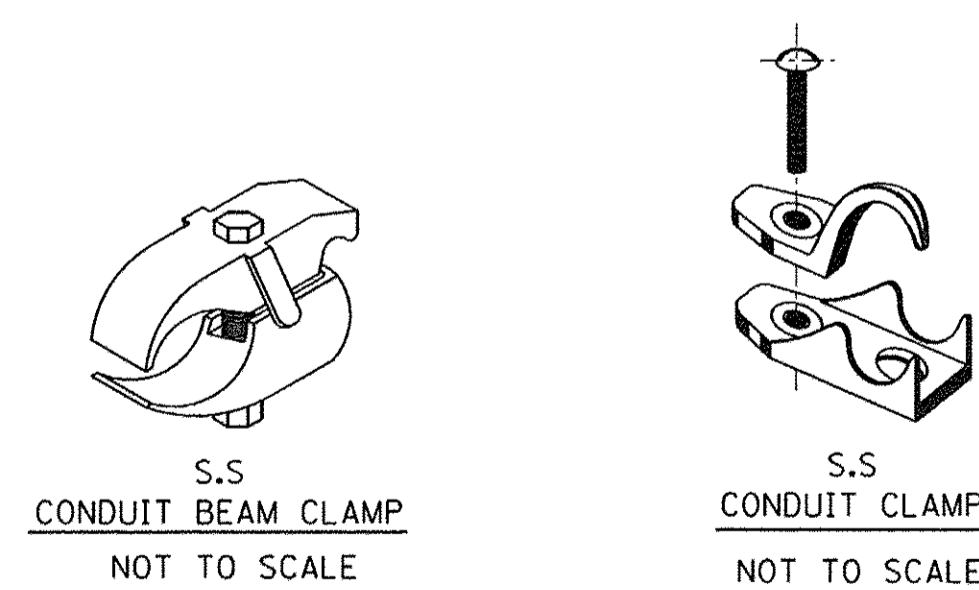
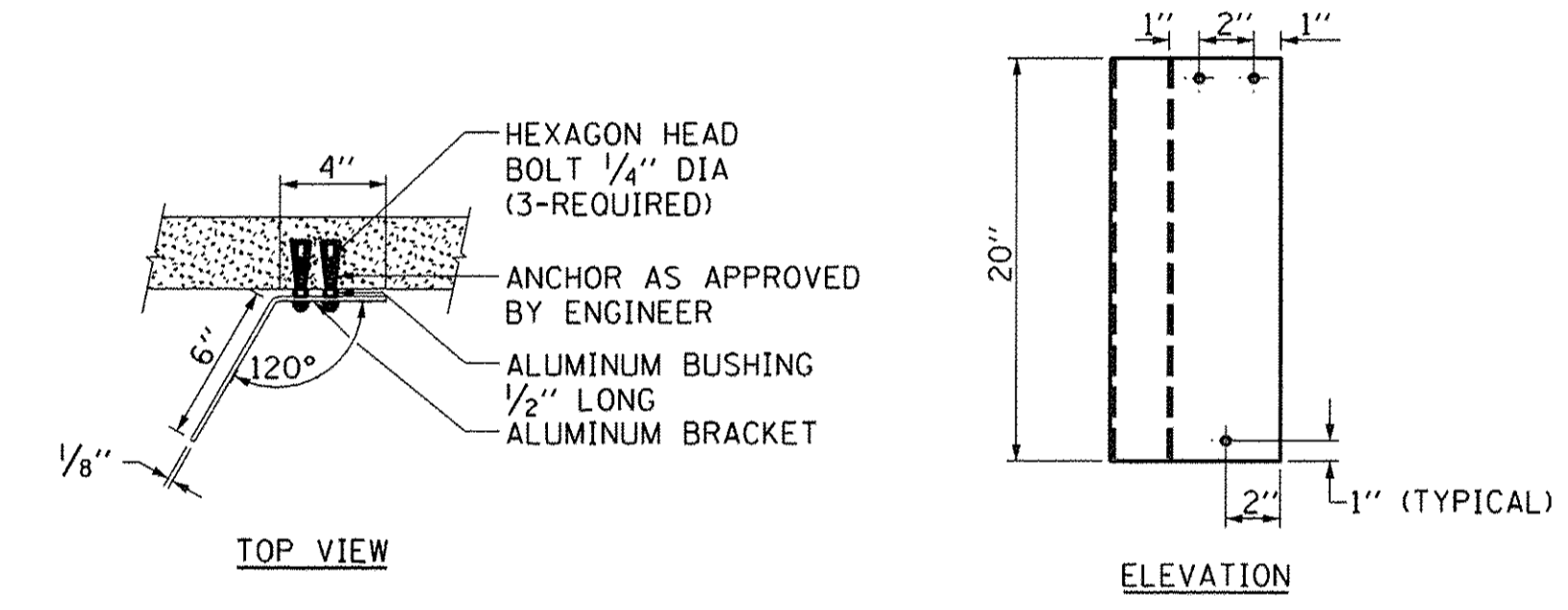
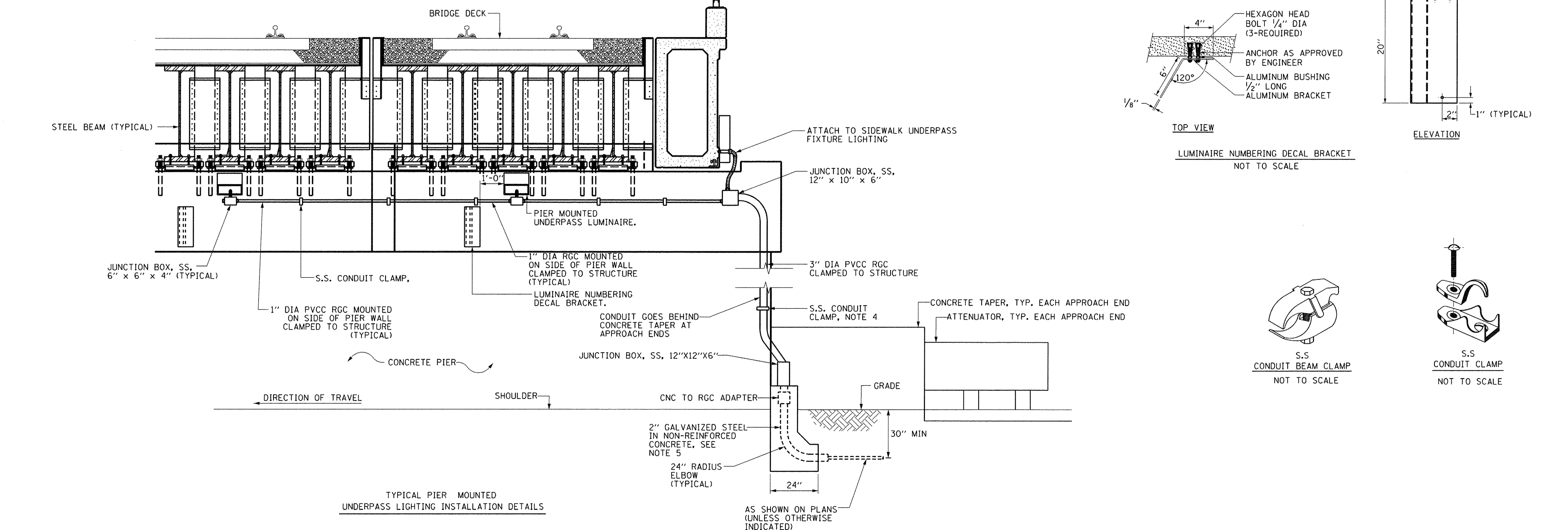
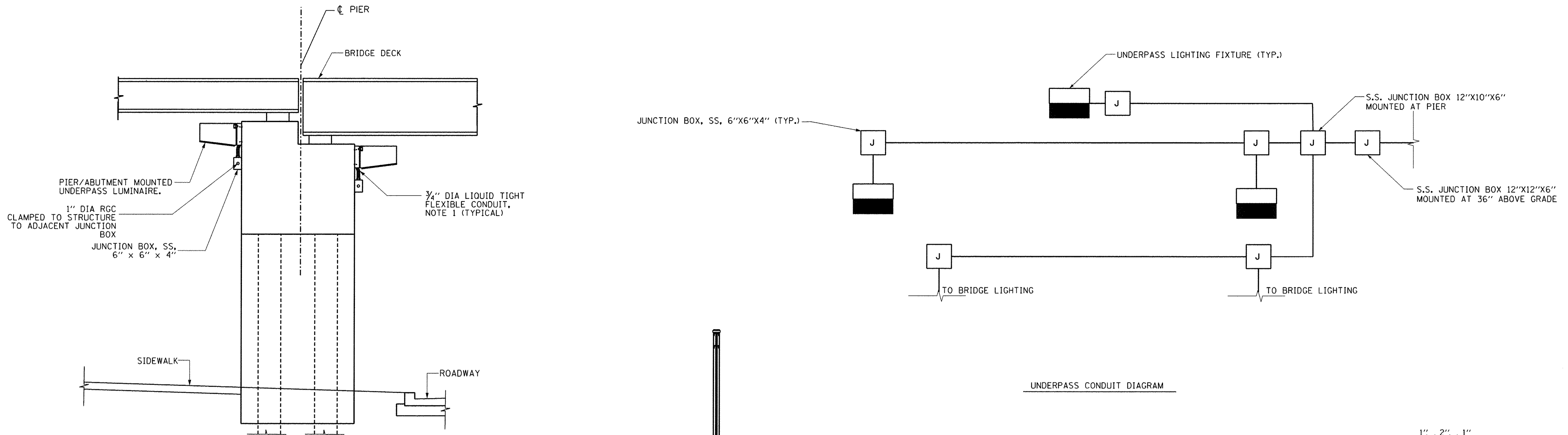


SECTION A-A

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- POLES AT 103+86.00 AND 104+85.50 SHALL BE PLACED AFTER THE INSTALLATION OF SOLDIER PILE RETAINING WALL. POLES SHALL BE PLACED DIRECTLY BEHIND (NORTH OF) SOLDIER PILE AT THIS LOCATION. THE TOP OF THE POLE FOUNDATION SHALL BE 4" ABOVE THE TOP OF THE GUTTER BEHIND THE WALL.

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LAYOUT	
DRAWN	
REVIEWED	

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PLOT DATE = 9/8/2015		DATE - 9/9/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET
LIGHTING DETAIL

SCALE: SHEET NO. 7 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	155
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

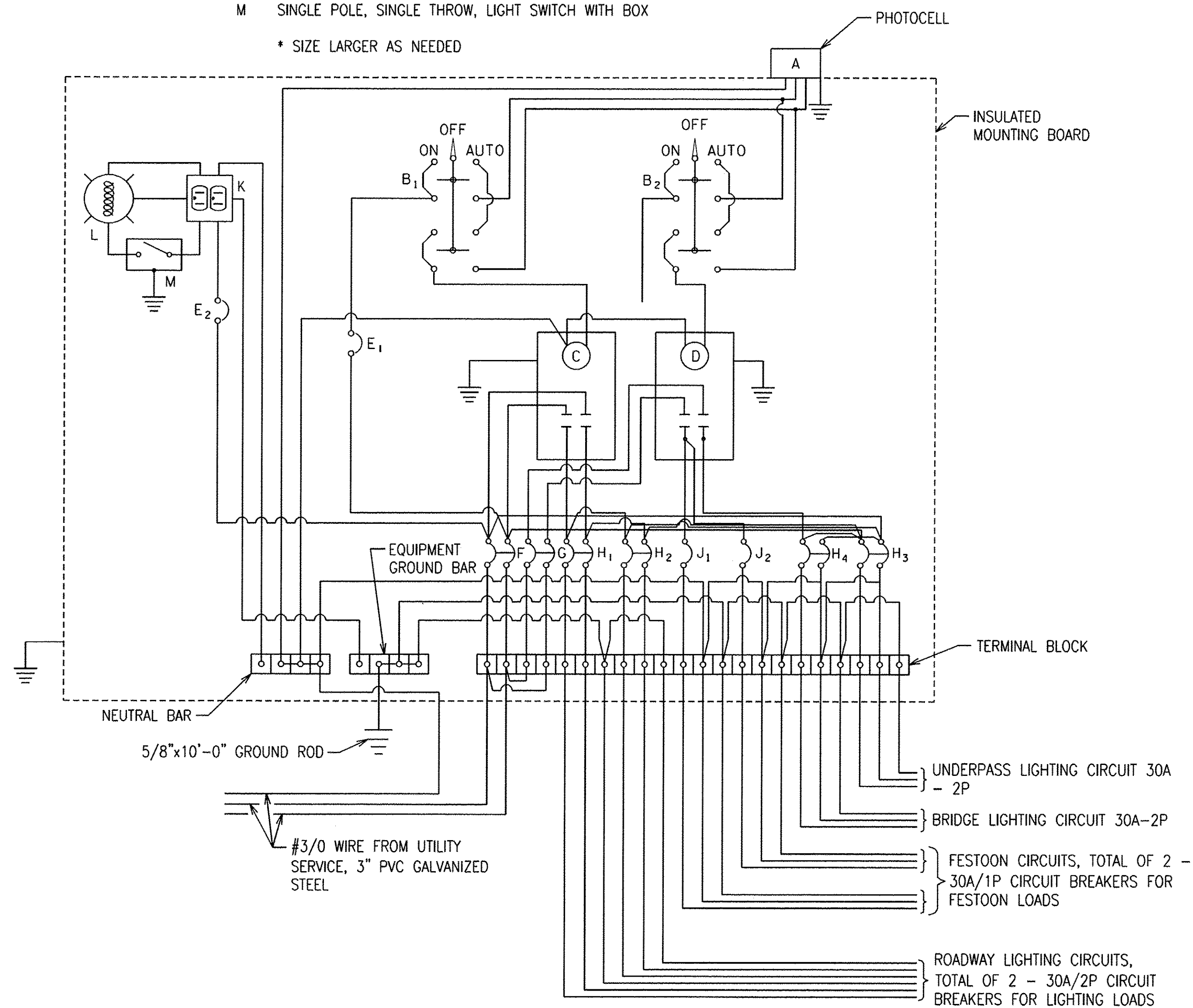
MATERIALS

- A PHOTOCELL FOR HIGHWAY LIGHTING/FESTOON CIRCUITS
 - B₁ } 3 POSITION SELECTOR SWITCH - HAND/OFF/AUTO
 - B₂ }
 - C,D 100 AMP* ELECTRICALLY HELD CONTACTORS
 - E 15 AMP, 1 POLE CIRCUIT BREAKER
 - F 100 AMP*, 2 POLE MAIN CIRCUIT BREAKER
 - G 100 AMP*, 2 POLE MAIN CIRCUIT BREAKER
 - H 30 AMP*, 2 POLE BRANCH CIRCUIT BREAKERS FOR LIGHTING
 - I SURGE ARRESTER
 - J 30 AMP*, 1 POLE CIRCUIT BREAKERS FOR FESTOON RECEPTACLES
 - K GFCI DUPLEX RECEPTACLE WITH BOX
 - L INCANDESCENT LUMINAIRE, ENCLOSED AND GASKETED WITH 100 WATT LAMP AND BOX
 - M SINGLE POLE, SINGLE THROW, LIGHT SWITCH WITH BOX
- * SIZE LARGER AS NEEDED

NOTE

CONTRACTOR C WILL CONTROL LIGHTING CIRCUIT BREAKERS H1, H2, H3, AND H4.

CONTRACTOR D WILL CONTROL FESTOON RECEPTACLES CIRCUIT BREAKERS J1 AND J2.



120/240V SERVICE WIRING DIAGRAM FOR LC-1

SCALE: NONE

LAYOUT	
DRAWN	
REVIEWED	

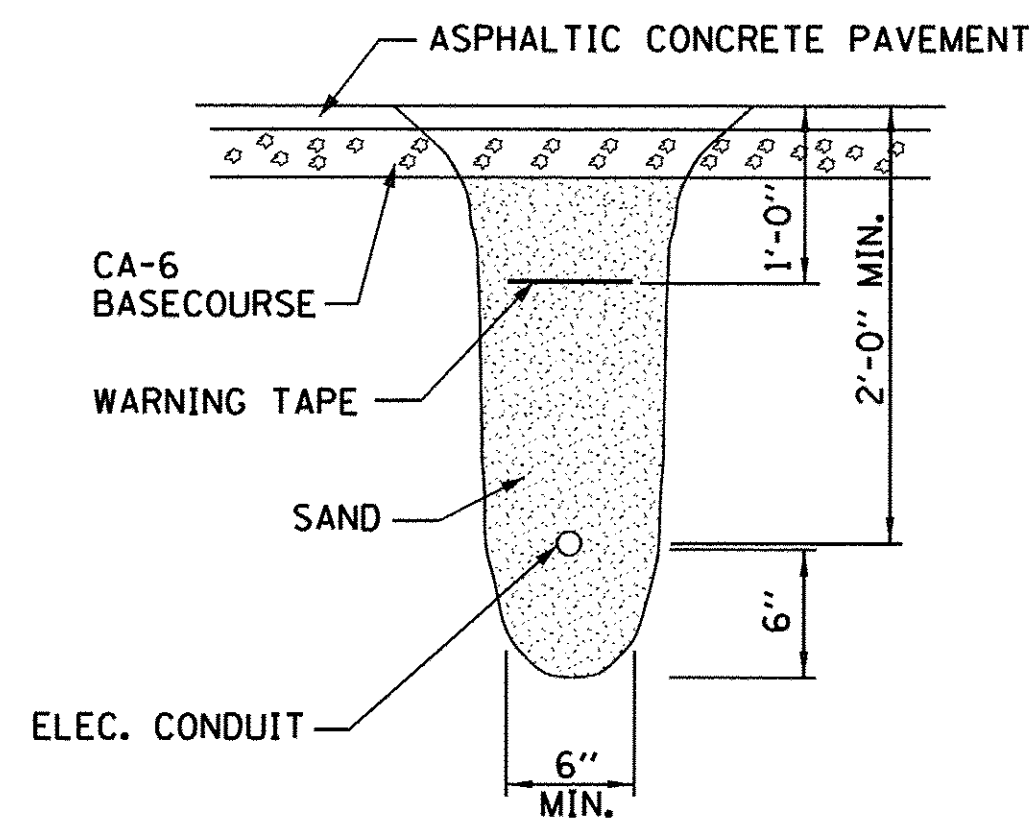
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		DATE - 9/9/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

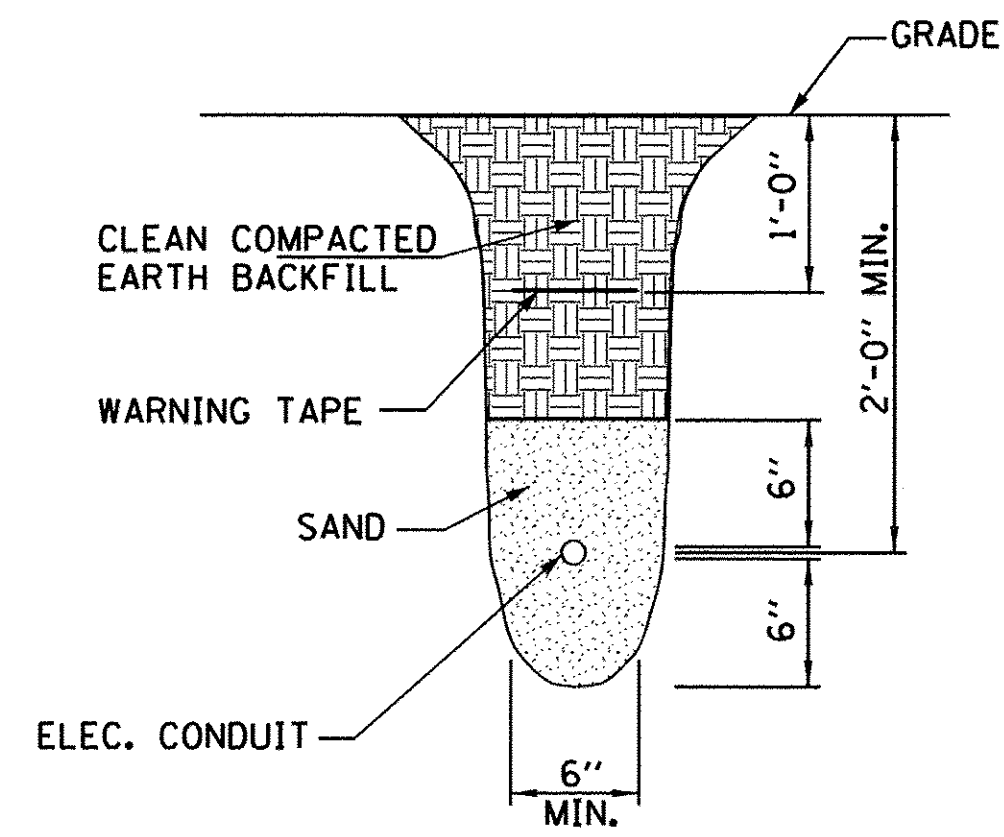
EAST MAIN STREET
LIGHTING DETAIL

SCALE: SHEET NO. 8 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	156
50VB			CONTRACT NO.89417	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



(IN PAVED AREAS)
TRENCH DETAIL
SCALE: NONE



(IN NONPAVED AREAS)
TRENCH DETAIL
SCALE: NONE

LAYOUT	
DRAWN	
REVIEWED	

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 PLOT DATE = 9/8/2015

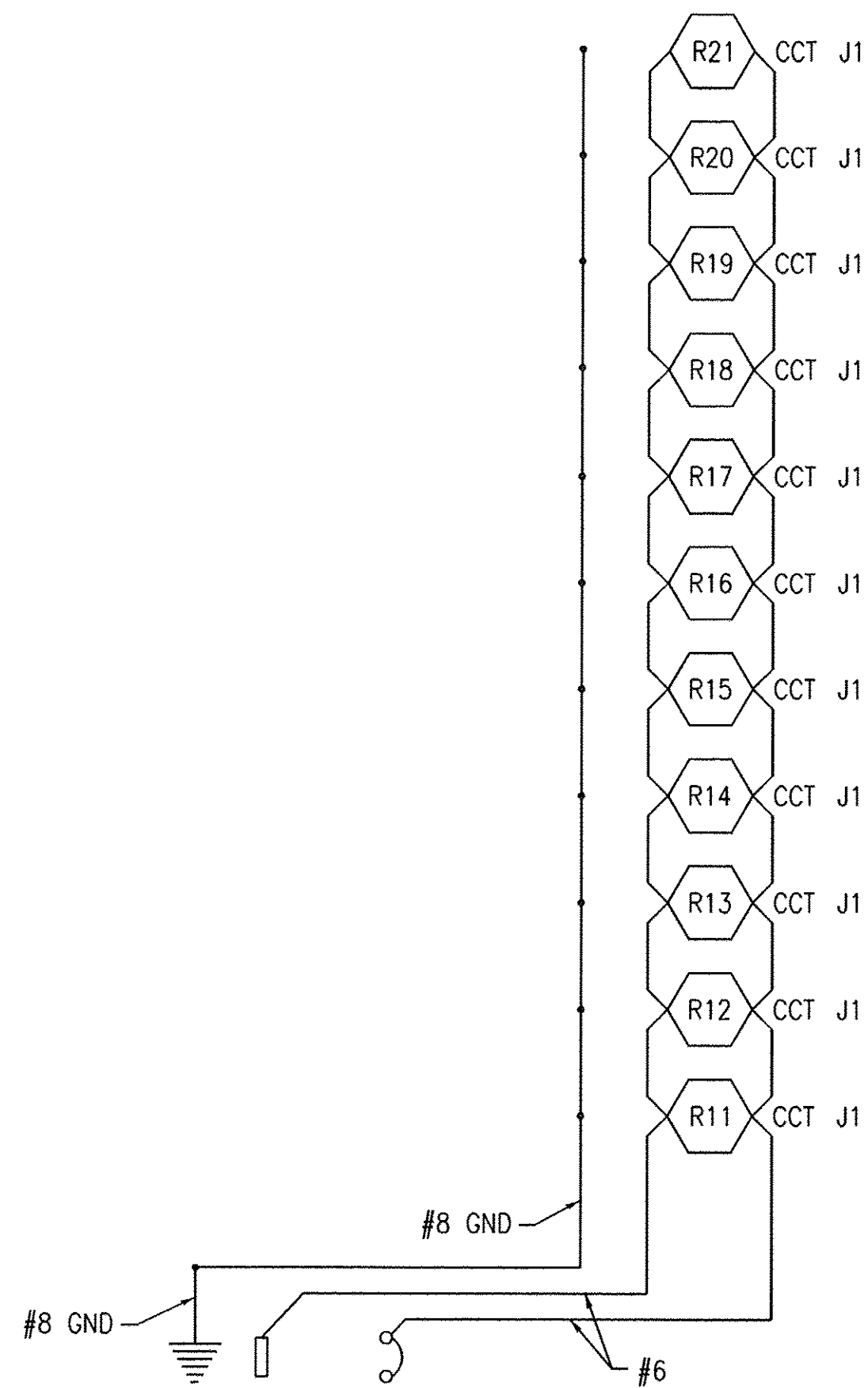
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DRAWN -	REVISD -
CHECKED -	REVISD -
DATE - 9/9/2015	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET
LIGHTING DETAIL

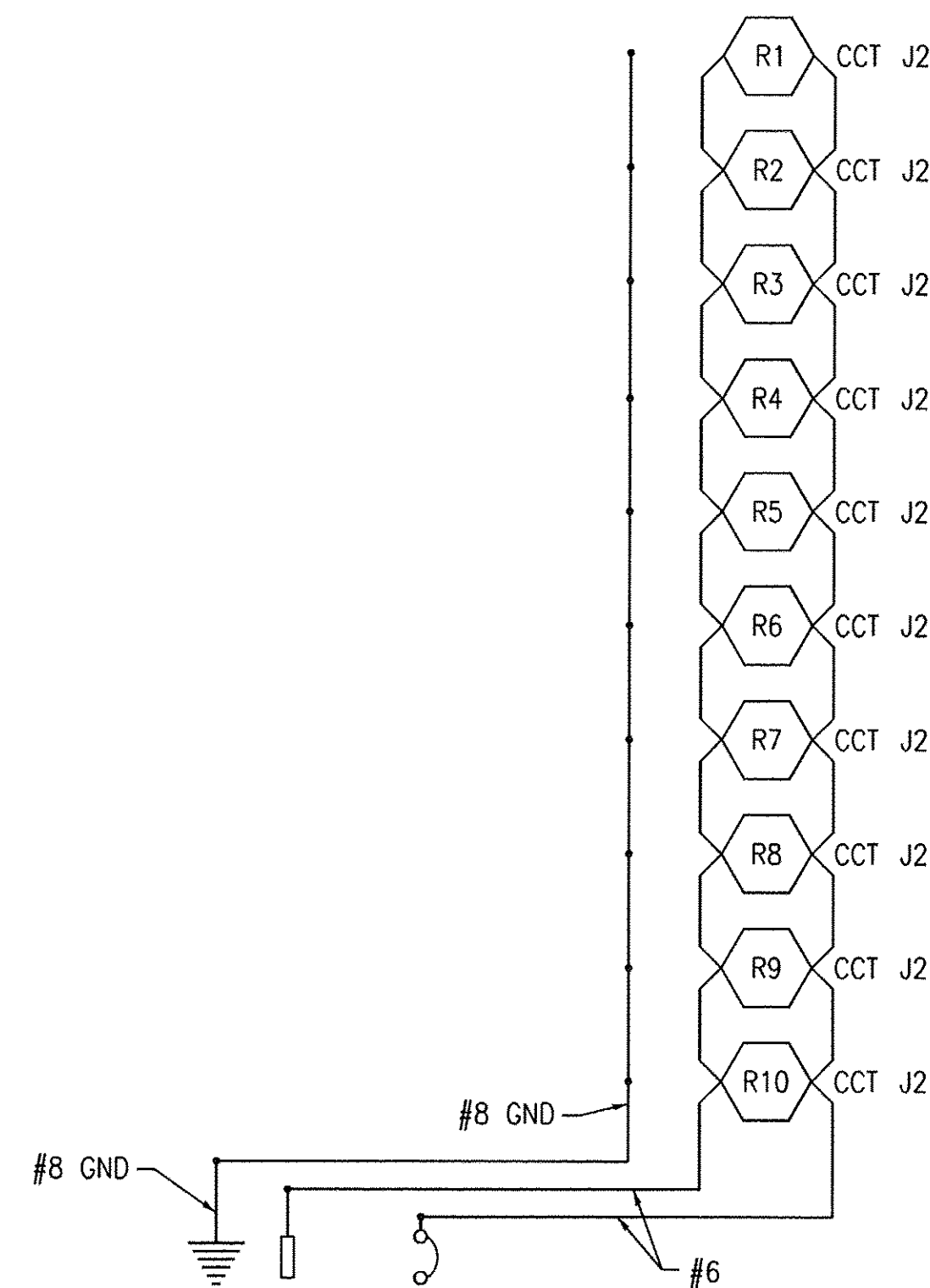
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	157
50VB			CONTRACT NO.89417	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



CONTROLLER LC-1
200 AMP, 120 VOLT, SINGLE PHASE, 2200 VA TOTAL LOAD,
30A, 1-POLE BREAKER

CIRCUIT DIAGRAM -
FESTOON RECEPTACLES (NORTH)
NOT TO SCALE



CONTROLLER LC-1
200 AMP, 120 VOLT, SINGLE PHASE, 2200 VA TOTAL LOAD,
30A, 1-POLE BREAKER

CIRCUIT DIAGRAM -
FESTOON RECEPTACLES (SOUTH)
NOT TO SCALE

NOTE:

ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

LAYOUT	
DRAWN	
REVIEWED	

FILE NAME =	USER NAME = andr-00846	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

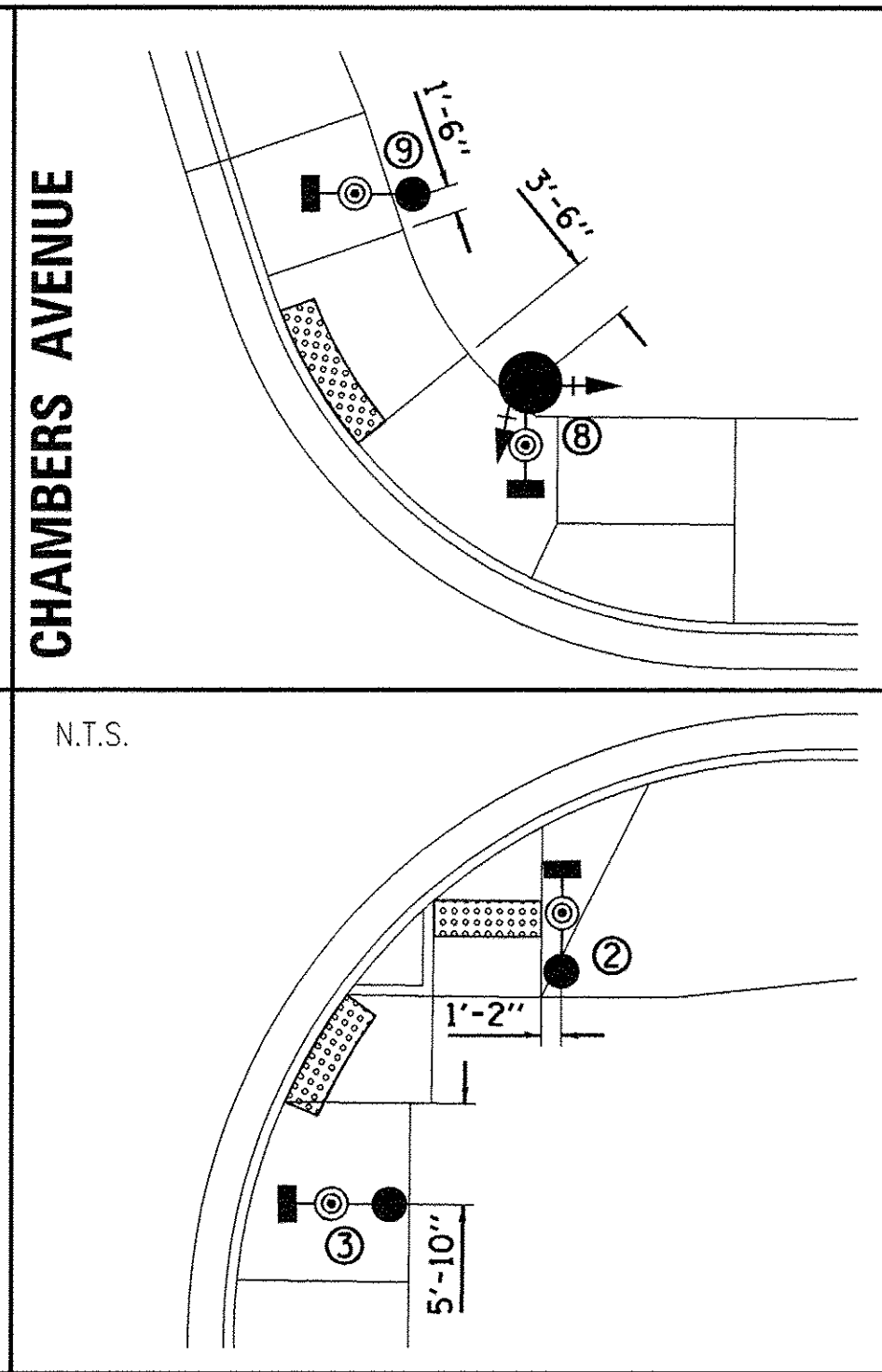
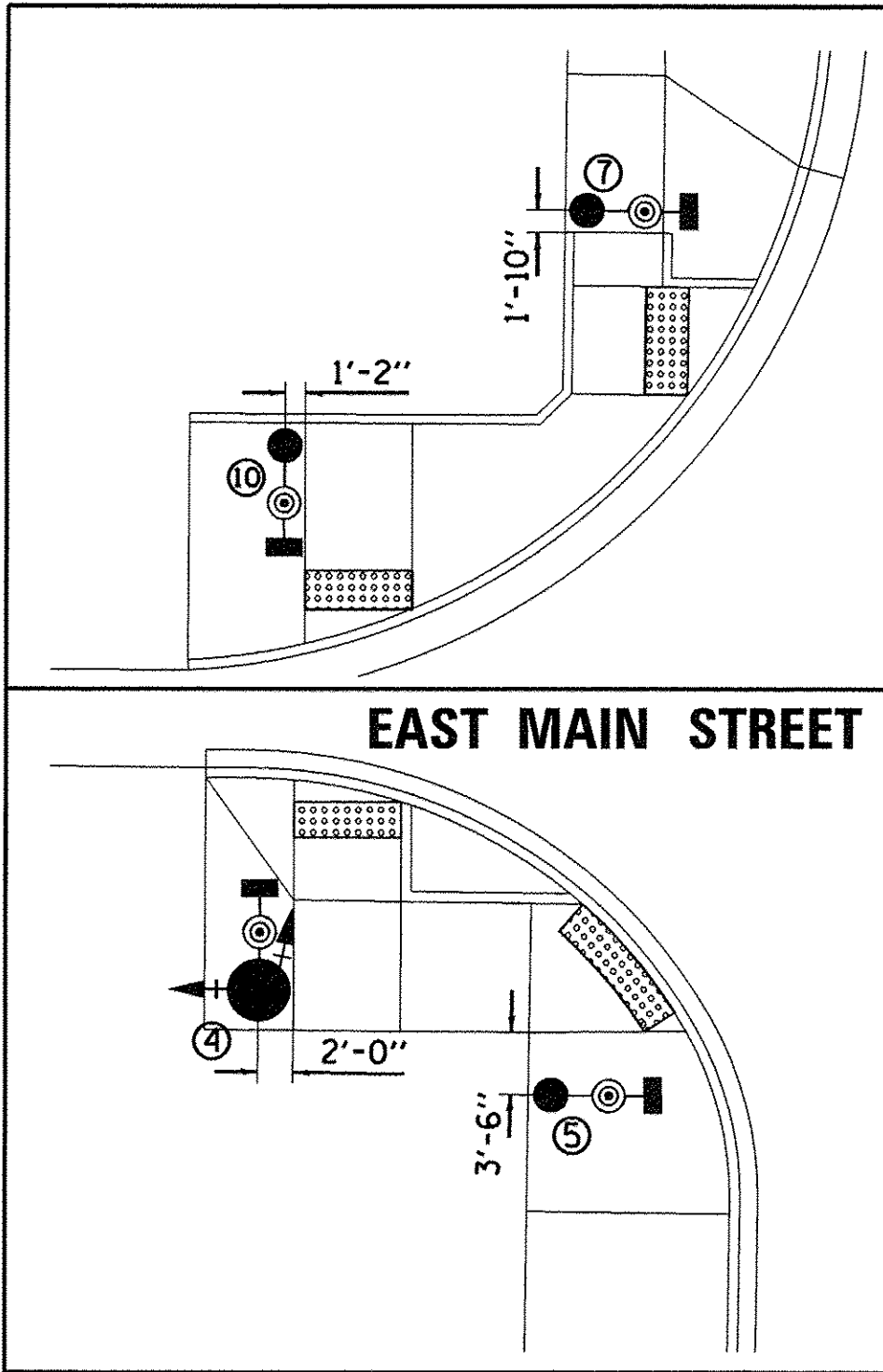
EAST MAIN STREET
LIGHTING DETAIL

SCALE: NONE SHEET NO. 10 OF 11 SHEETS STA. TO STA.

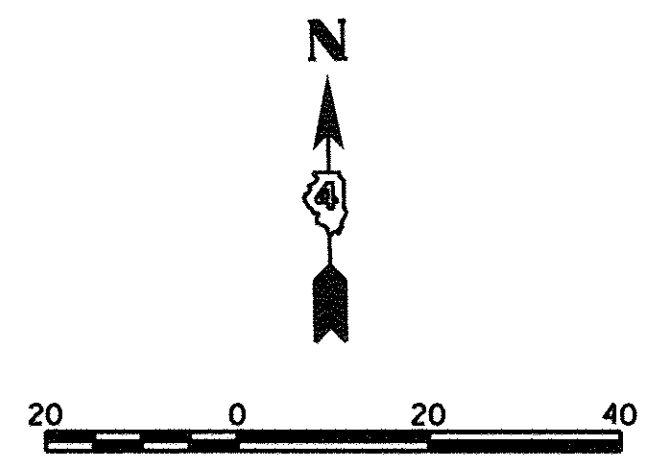
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6800	05-00500-19-GS	KNOX	221	158
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

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 DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 PLOT DATE = 9/8/2015

LAYOUT RLA 2/11/14
 DRAWN MGD 5/27/15
 REVIEWED MPB 5/28/15

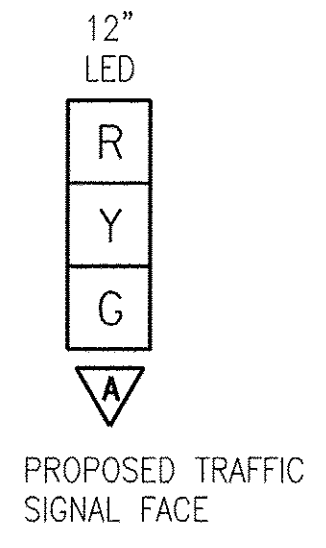
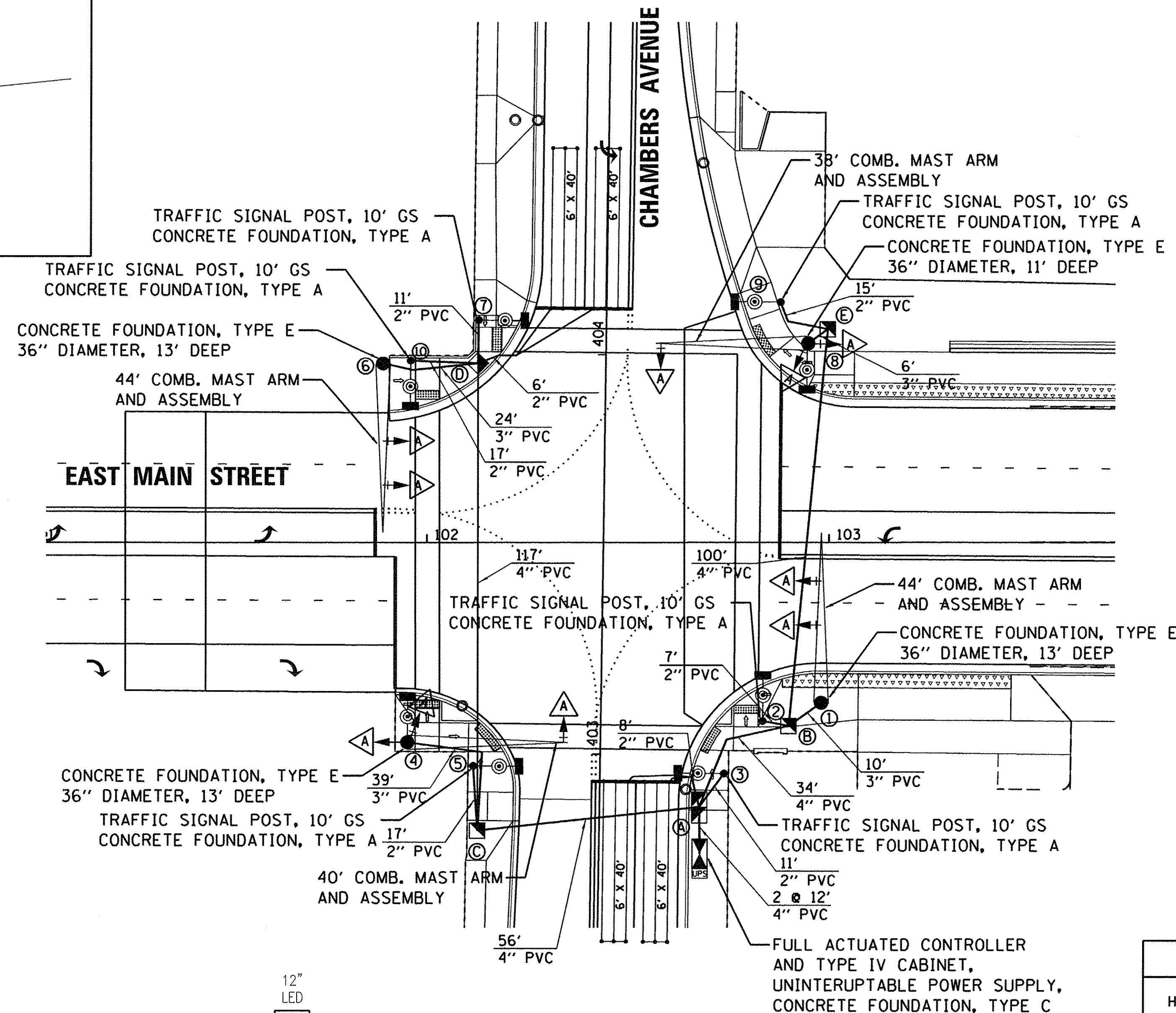


N.T.S.



TRAFFIC SIGNAL PLAN LEGEND

PROPOSED	DESCRIPTION
	SIGNAL HEAD WITH BACKPLATE
	SIGNAL POST
	CONTROLLER
	HANDHOLE
	DOUBLE HANDHOLE
	PEDESTRIAN COUNTDOWN SIGNAL HEAD
	PUSH BUTTON
	CONDUIT
	CONDUIT LENGTH DIAMETER - TYPE (PVC, S=STEEL, F=FIBER DUCT)
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE



HANDHOLE & CONTROLLER REMOVAL		
CONTROL LINE	STATION	OFFSET
MAIN STREET	102+72	63' RT
MAIN STREET	102+88	43' RT
MAIN STREET	102+17	63' RT
MAIN STREET	102+00	40' RT
MAIN STREET	102+04	38' LT
MAIN STREET	102+19	51' LT
MAIN STREET	102+67	52' LT
MAIN STREET	102+80	42' LT
MAIN STREET	102+88	36' LT
MAIN STREET	102+68	72' RT

NOTES:
 1. ALL EXISTING HANDHOLES SHOWN SHALL BE REMOVED. REMOVAL WILL BE FOR EACH AND WILL INCLUDE ANY CONDUIT, WIRING, OR SPLICING NECESSARY TO RECONNECT THE EXISTING LIGHTING SYSTEM.

MAST ARM POLES & POSTS			
POLE I.D.	CONTROL LINE	STATION	OFFSET
①	MAIN STREET	102+98	40' RT
②	MAIN STREET	102+84	45' RT
③	MAIN STREET	102+74	58' RT
④	MAIN STREET	101+95	50' RT
⑤	MAIN STREET	102+12	56' RT
⑥	MAIN STREET	101+89	45' LT
⑦	MAIN STREET	102+13	56' LT
⑧	MAIN STREET	102+95	50' LT
⑨	MAIN STREET	102+88	60' LT
⑩	MAIN STREET	101+96	46' LT

HANDHOLES AND CONTROLLER			
HANDHOLE I.D.	CONTROL LINE	STATION	OFFSET
A	MAIN STREET	102+68	66' RT
B	MAIN STREET	102+90	46' RT
C	MAIN STREET	102+13	72' RT
D	MAIN STREET	102+13	45' LT
E	MAIN STREET	103+00	53' LT
F	MAIN STREET	102+68	78' RT

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET AND CHAMBERS STREET
 SIGNAL PLAN**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 160
50VB		CONTRACT NO. 89417		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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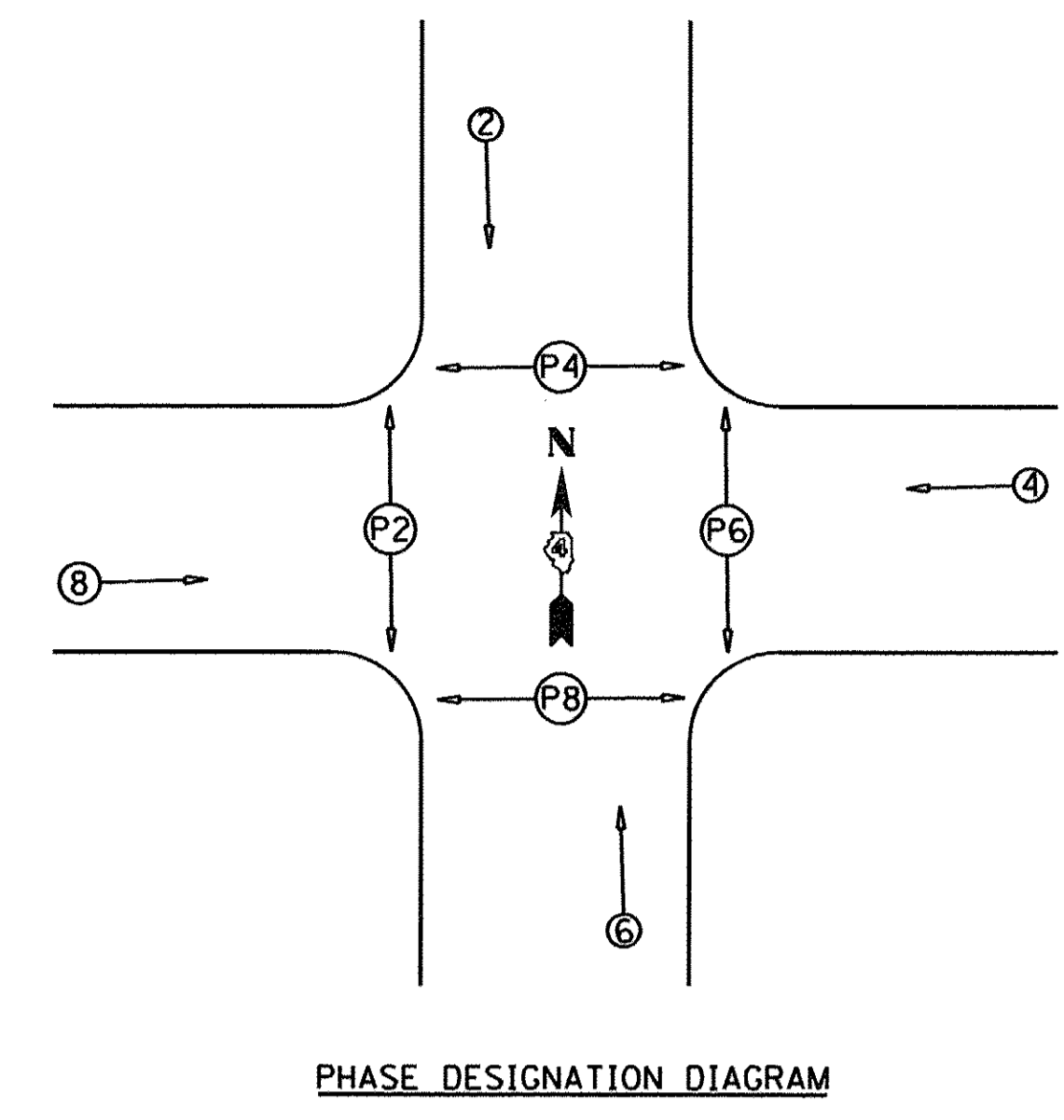
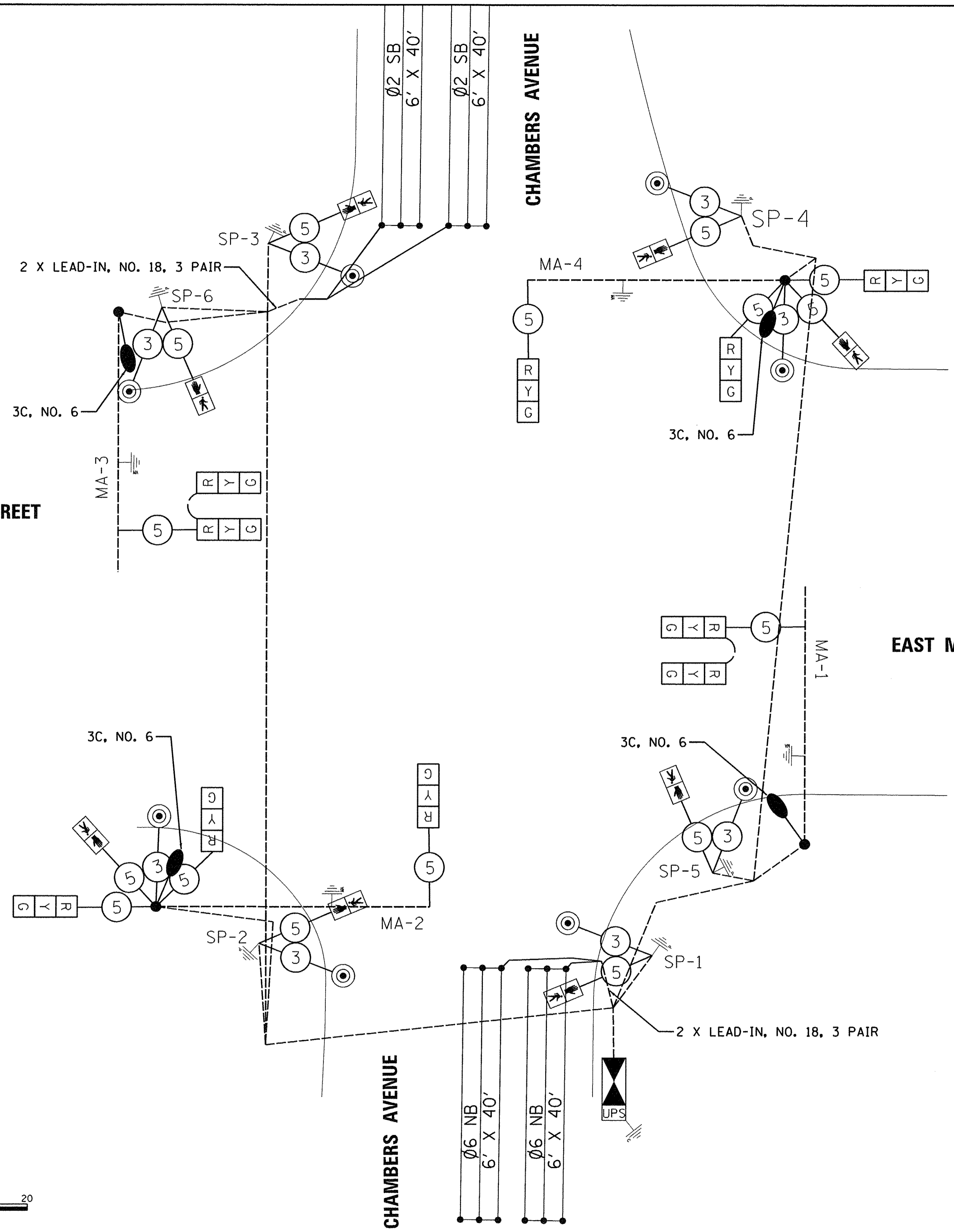
LAYOUT	RLA	2/11/14
DRAWN	MGD	5/27/15
REVIEWED	MPB	5/28/15



EAST MAIN STREET

CHAMBERS AVENUE

EAST MAIN STREET



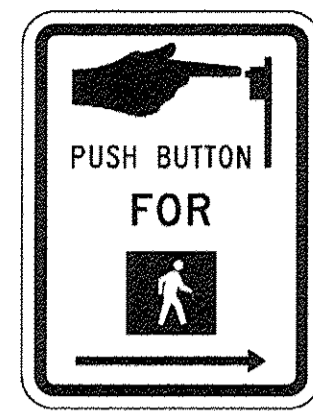
TRAFFIC SIGNAL WIRING DIAGRAM LEGEND

PROPOSED	DESCRIPTION
	ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS
	SIGNAL FACE WITH BACKPLATE
	DIRECTIONAL SIGNAL SECTION
	12" SIGNAL SECTION
FYA	FLASHING YELLOW ARROW
	WALK/DON'T WALK SECTION + COUNT DOWN
	GROUND WIRE (POLE)
	GROUND WIRE (MAST ARM)
	PEDESTRIAN PUSHBUTTON
	CONDUIT
	GROUND WIRE (CONTROLLER)
	LUMINAIRE
	GROUND WIRE (HANDHOLE)

TRAFFIC SIGNAL GENERAL NOTES

- ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
- ALL PEDESTRIAN SECTIONS SHALL HAVE 16" LENSES WITH A MAN/HAND OVERLAY AND COUNTDOWN TIMER.
- THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER. THE SIGNAL HEADS SHALL MAINTAIN A 16' MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
- THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES. LEFT TURN SIGNAL HEADS MAY BE MOVED 1 FOOT TO ALLOW FOR LINE OF SIGHT FOR APPROACHING VEHICLES.
- ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.
- ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
- ALL PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
- HANDHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
- ALL CABLES #14 UNLESS OTHERWISE NOTED.
- THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
- THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
- ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH OR IN AN INDIRECT ROUTE BETWEEN STRUCTURES TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
- ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, SERVICE RISERS, EXPOSED METALLIC CONDUITS, AND PHOTOCCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
- DRILLING HOLES THROUGH EXISTING CURB AND GUTTER, INSERTING CONDUIT AND FILLING WITH APPROVED SEALER FOR DETECTOR LOOPS SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
- THE LENGTH OF DETECTOR LOOP CABLE FROM CURB TO THE HANDHOLE SHALL BE INCLUDED IN THE DETECTOR LOOP QUANTITY.
- LOOPS IN THE SAME LANE SHALL BE WOUND ALTERNATELY CLOCKWISE AND COUNTER CLOCKWISE.
- THE CONDUITS SHOWN CONNECTING THE BACK OF CURB TO THE ROADSIDE HANDHOLE SHALL CONTAIN ONLY DETECTOR LOOP CABLE.
- A 3/8" DIAMETER CONTINUOUS POLYESTER RODENT RESISTANT PULL TAPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER.

FILE NAME =	USER NAME = dows00878	DESIGNED - RLA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST MAIN STREET AND CHAMBERS STREET CABLE PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os:\pwise_work\do_not_delete\0273754\04	9L0105-shr-ta-002.dgn	DRAWN - MGD	REVISED -		6800	05-00500-19-GS	KNOX	221	161			
	PLOT SCALE = 10.0000' / 1"	CHECKED - MPB	REVISED -		50VB			CONTRACT NO.89417				
	PLOT DATE = 9/8/2015	DATE - 9/9/2015	REVISED -		SCALE: 1"=10'	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

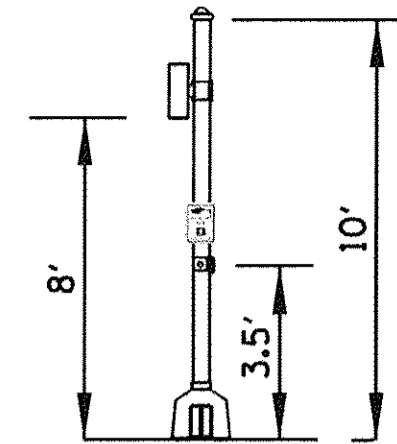


4 LEFT AND 4 RIGHT REQUIRED
 PEDESTRIAN PUSH BUTTON SIGN
 TYPE R10-3 (L OR R)

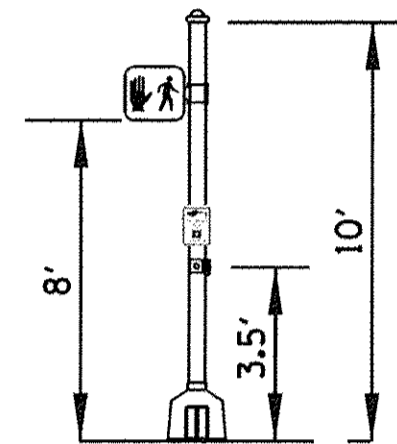
9" X 12"
PEDESTRIAN CROSSING
SIGN DETAIL
 (NOT TO SCALE)

TYPE B SHEETING REQUIRED-
 MOUNT ONE SIGN WITH EACH
 PEDESTRIAN PUSH-BUTTON.

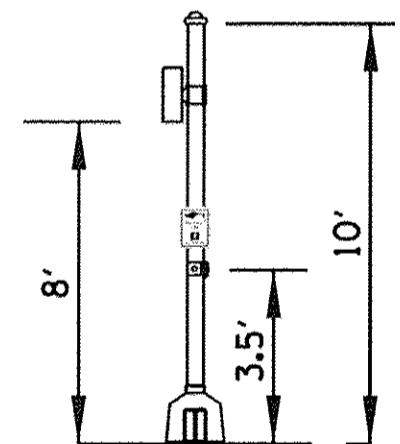
COLORS
 LEGEND-BLACK
 BACKGROUND-WHITE
 SIGNAL-GREEN



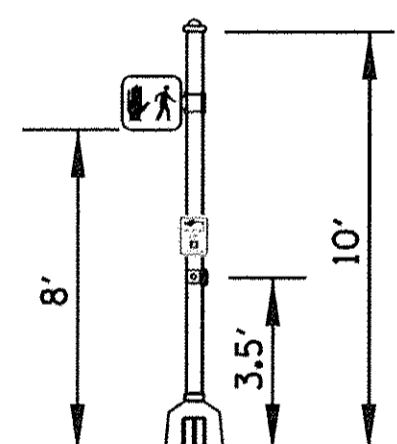
SP-1
 SOUTHEAST CORNER
 SIGNAL POST
 NTS



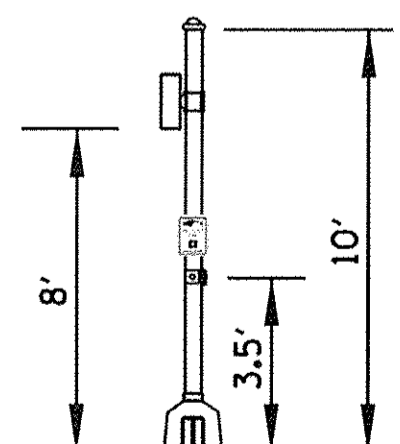
SP-2
 SOUTHWEST CORNER
 PEDESTRIAN SIGNAL POST
 NTS



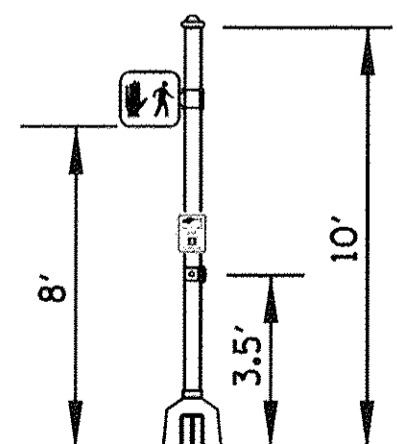
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 NORTHWEST CORNER
 SIGNAL POST
 NTS



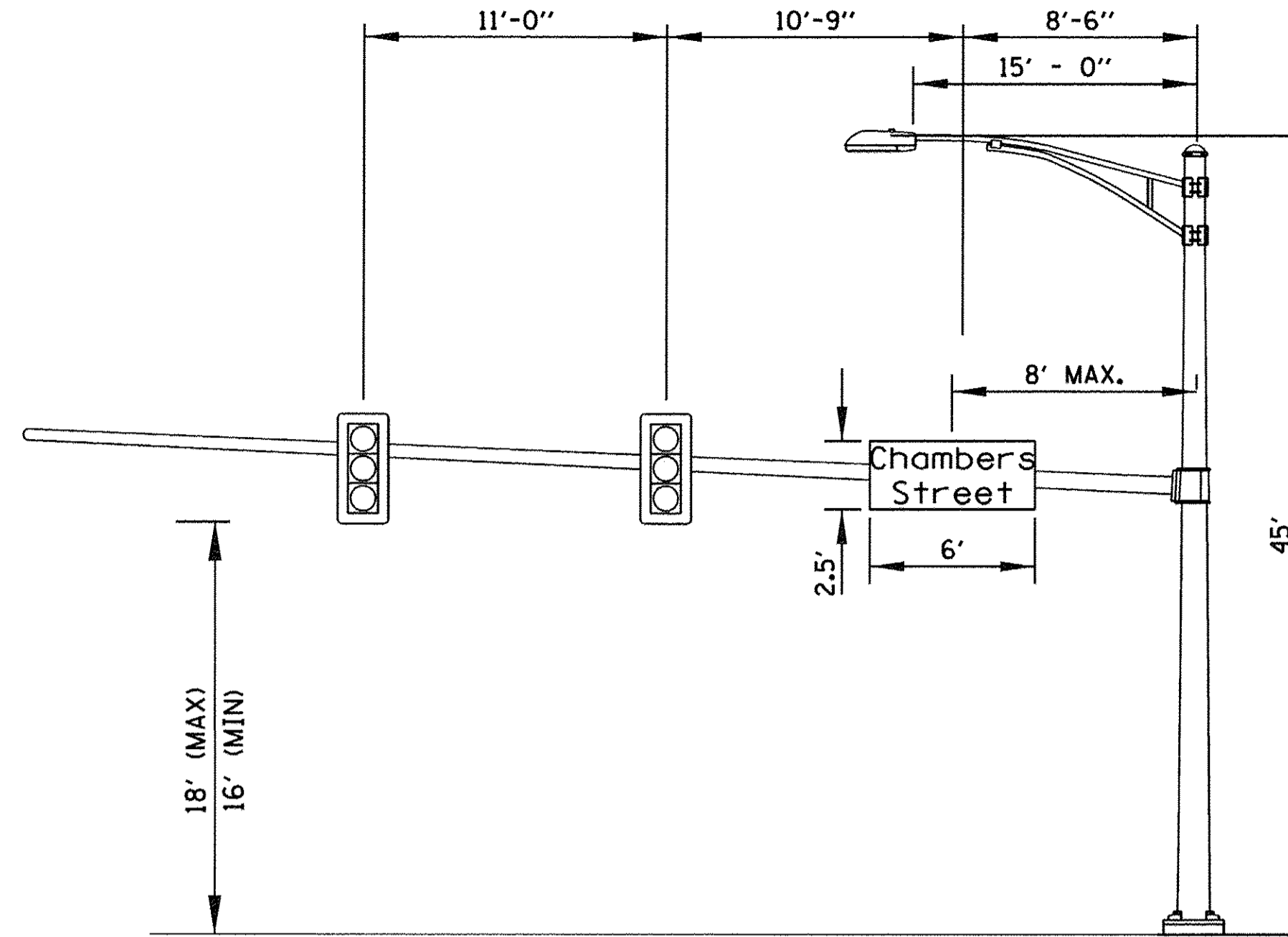
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 NORTHEAST CORNER
 PEDESTRIAN SIGNAL POST
 NTS



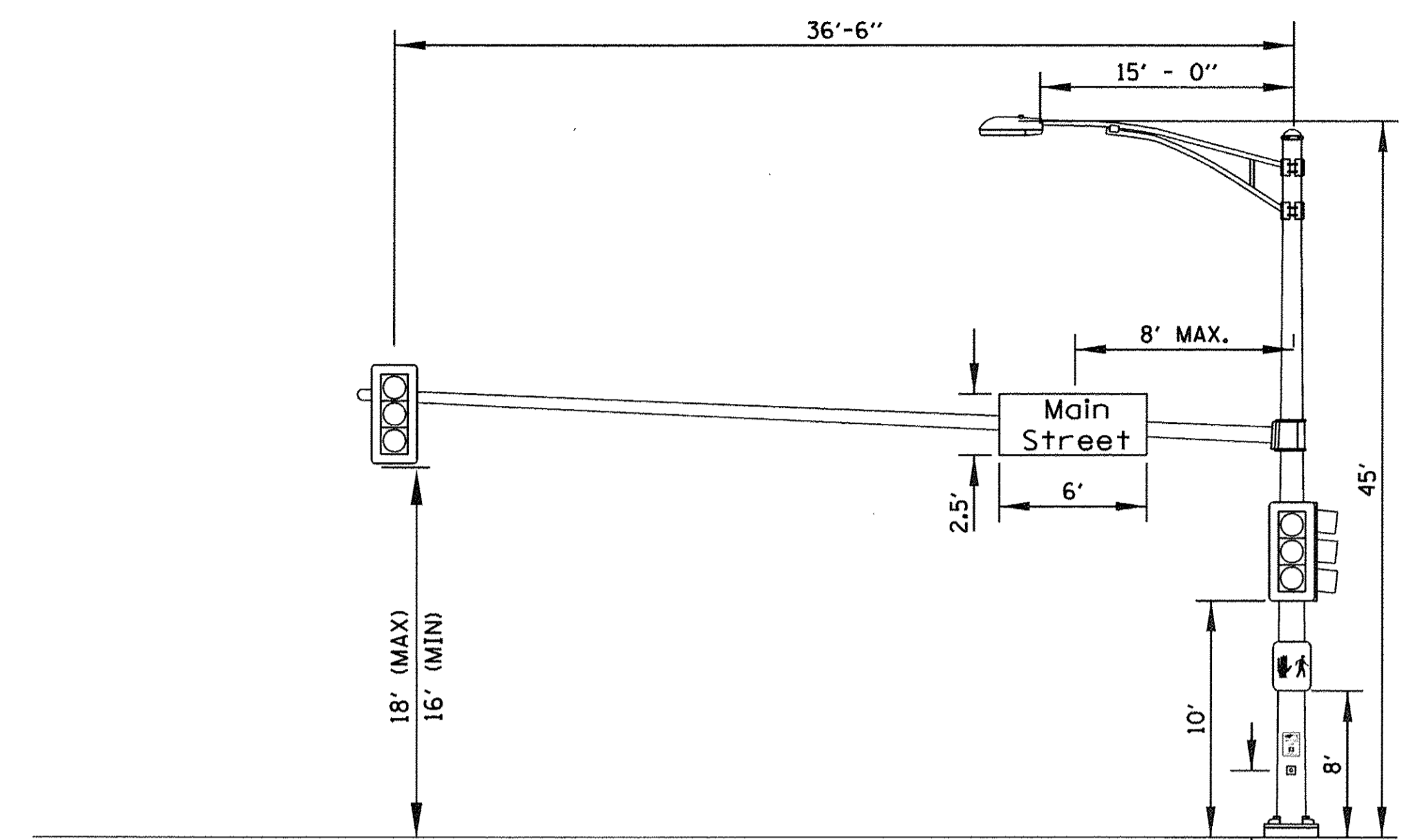
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 SOUTHEAST CORNER
 PEDESTRIAN SIGNAL POST
 NTS



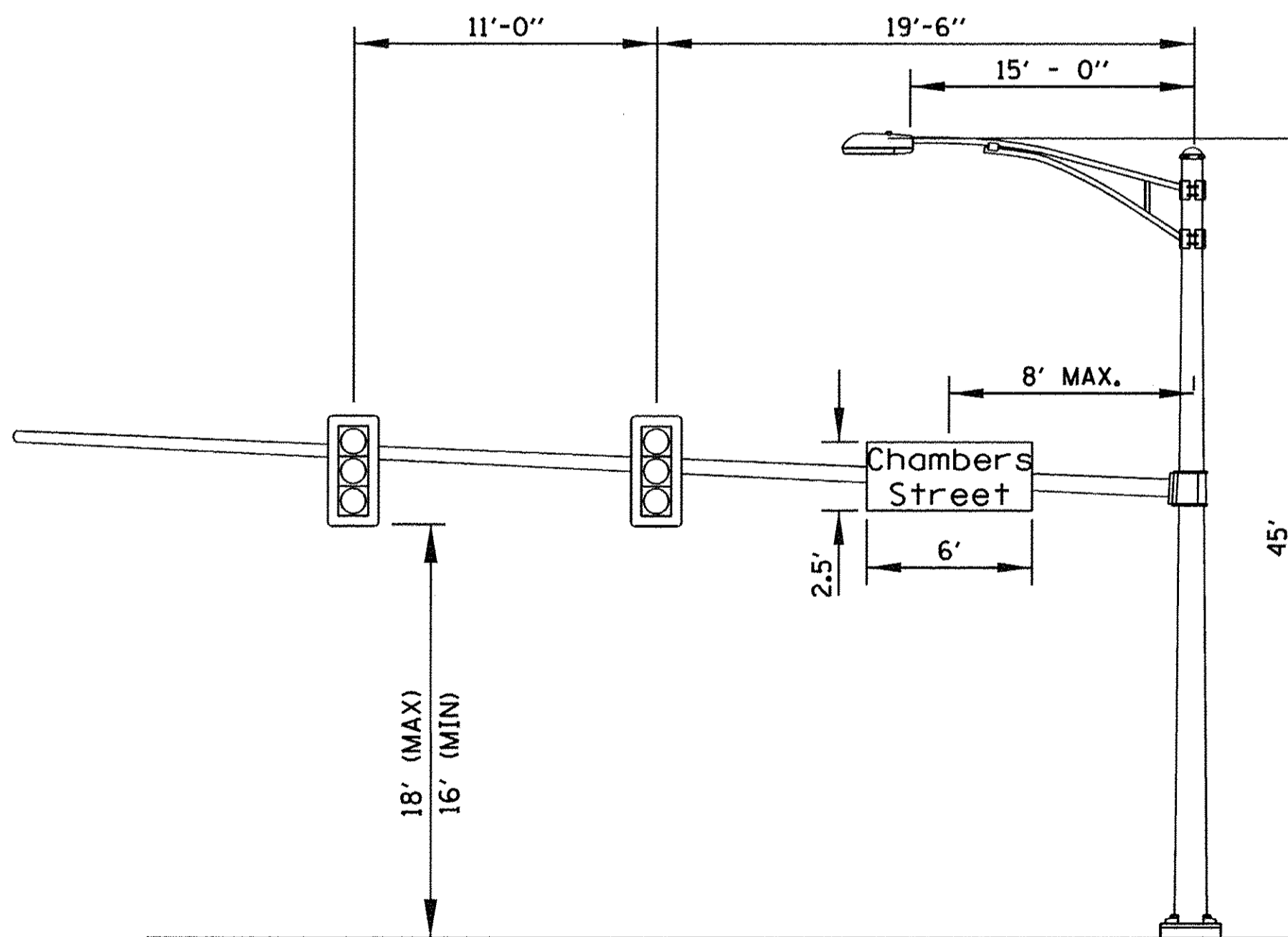
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 NORTHWEST CORNER
 PEDESTRIAN SIGNAL POST
 NTS



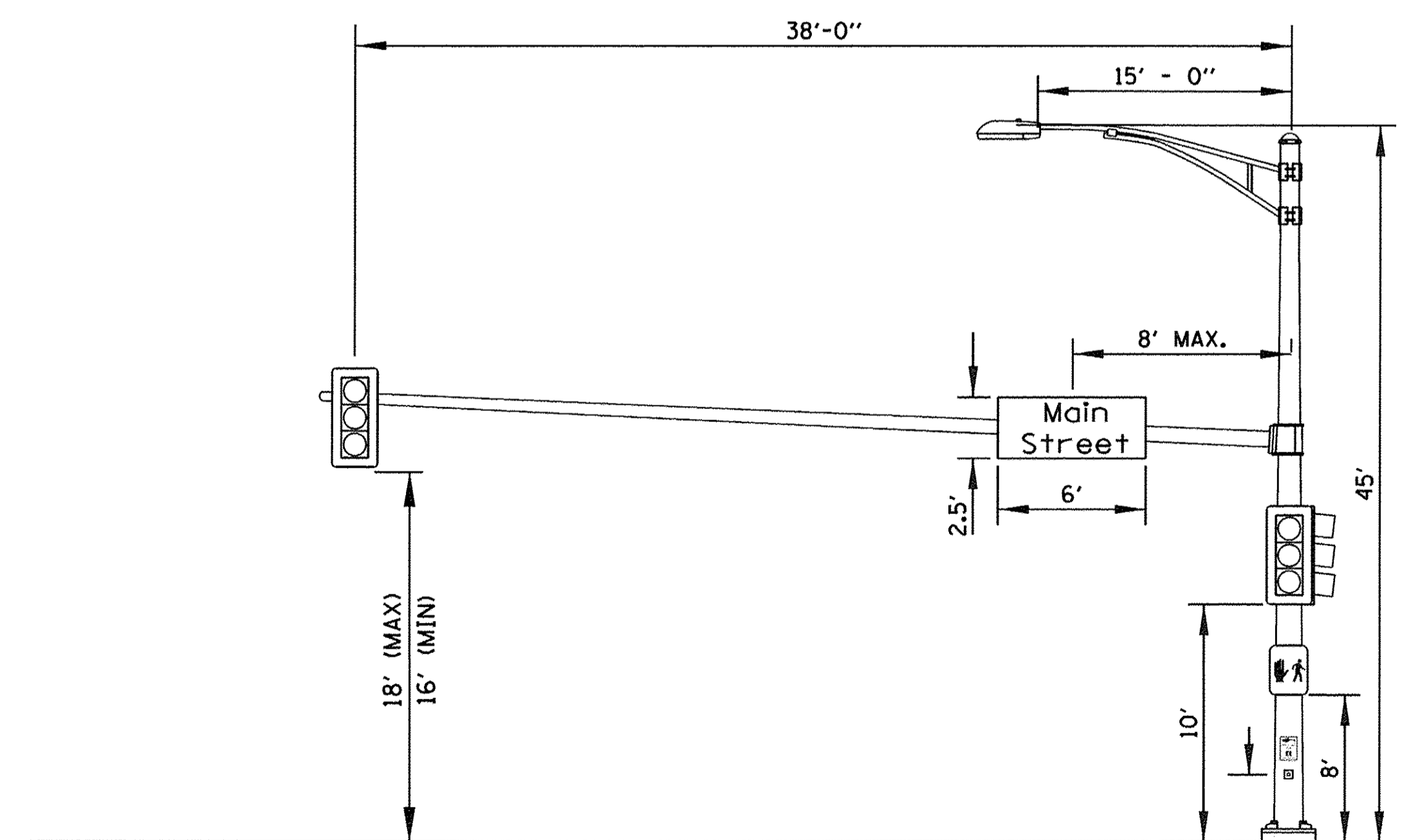
MA-1
 MAIN STREET AND CHAMBERS STREET
 EASTBOUND MAIN STREET
 NTS



MA-2
 MAIN STREET AND CHAMBERS STREET
 SOUTHBOUND CHAMBERS STREET
 NTS



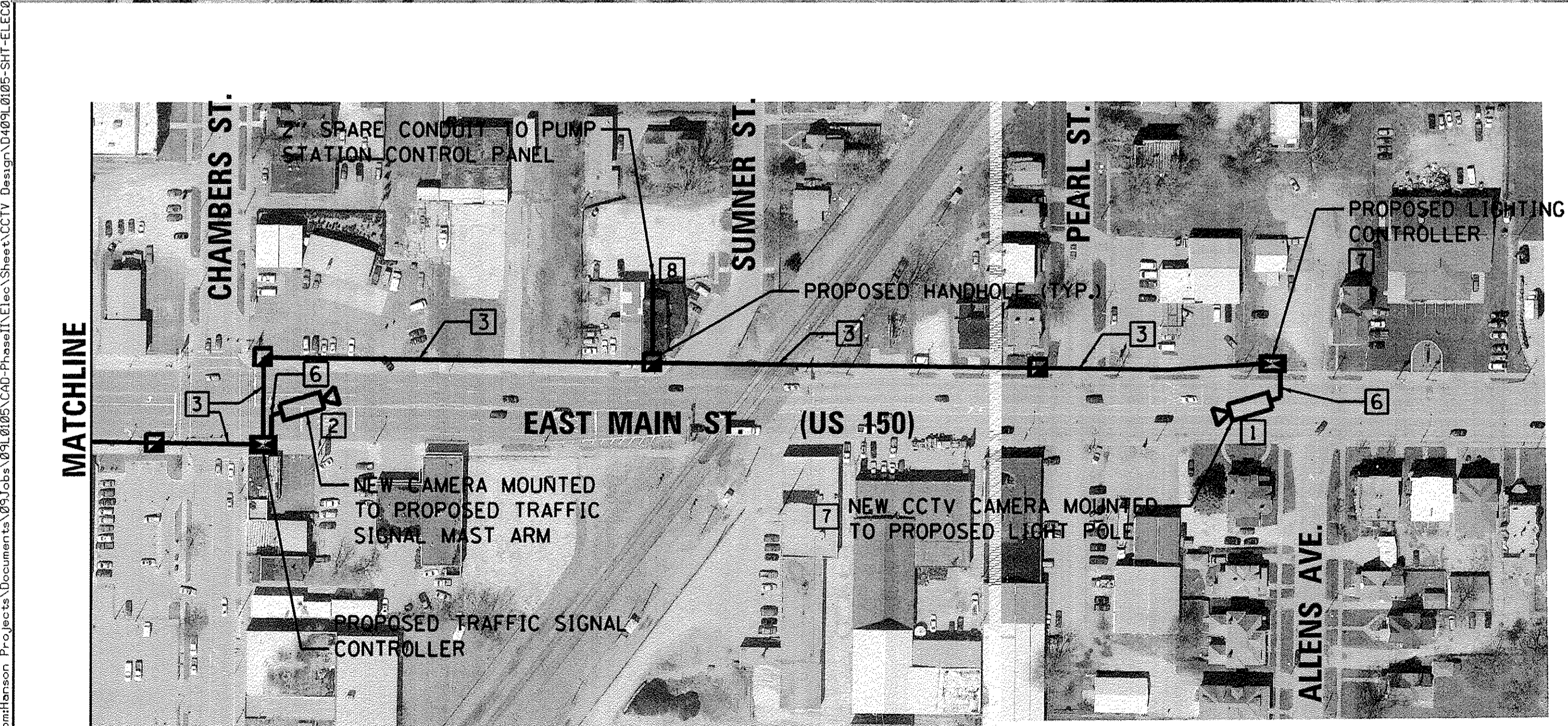
MA-3
 MAIN STREET AND CHAMBERS STREET
 WESTBOUND MAIN STREET
 NTS



MA-4
 MAIN STREET AND CHAMBERS STREET
 NORTHBOUND CHAMBERS STREET
 NTS

LAYOUT	RLA	2/11/14
DRAWN	MGD	5/27/15
REVIEWED	MPB	5/28/15

FILE NAME =	USER NAME = dawso0878	DESIGNED - RLA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST MAIN STREET AND CHAMBERS STREET MAST ARM LOADING DIAGRAM	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Plot Date = 9/8/2015	DATE = 9/9/2015	CHECKED - MPB	REVISED -			50VB	CONTRACT NO.89417			
		DATE = 9/9/2015	REVISED -			SCALE: N/A		SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

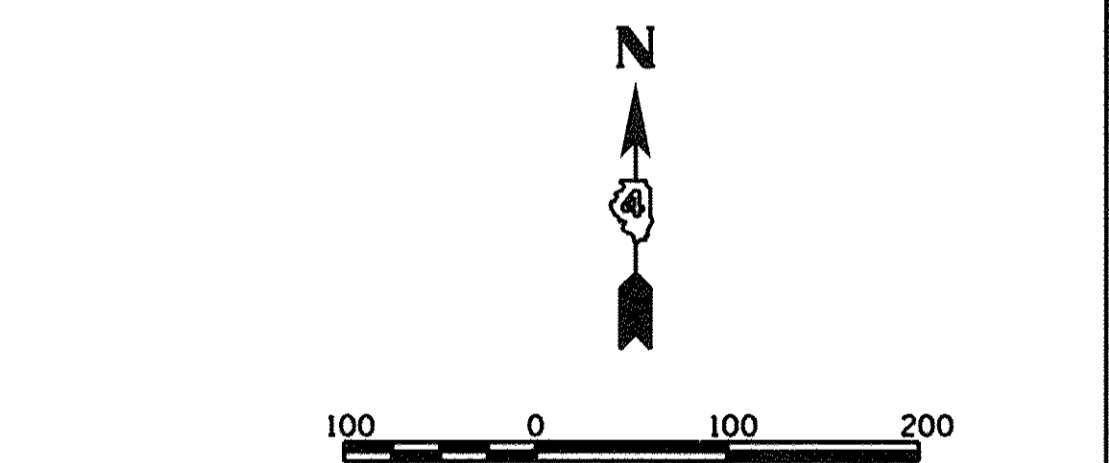


GENERAL NOTES:

1. CABLE DISTANCE FROM PEDESTAL MOUNTED EQUIPMENT CABINET TO CAMERA CANNOT EXCEED 295 FEET.

KEYED NOTES:

- 1 SEE CCTV DOME CAMERA INSTALLATION DETAIL ON SHEET E-4.
- 2 SEE CCTV DOME CAMERA INSTALLATION DETAIL ON SHEET E-5.
- 3 ROUTE 2-2" CONDUITS IN TRENCH FROM ALLENS AVENUE AND EAST MAIN STREET INTERSECTION TO CHAMBERS STREET AND EAST MAIN STREET INTERSECTION AS SHOWN. PROVIDE A HYBRID 12 STRAND 62.5/125 MULTIMODE AND 24 STRAND SINGLE MODE FIBER OPTIC CABLE IN 1-2" SCHEDULE 40 PVC CONDUIT AND THE SECOND CONDUIT WILL BE SPARE. SEE SPECIAL PROVISIONS FOR FIBER OPTIC CABLE REQUIREMENTS.
- 4 BORE 2-2" CONDUITS FROM CHAMBERS AVENUE AND EAST MAIN STREET INTERSECTION TO EXISTING HANDHOLE AT THE SIMMONS STREET AND CEDAR STREET INTERSECTION AS SHOWN. PROVIDE A HYBRID 12 STRAND 62.5/125 MULTIMODE AND 24 STRAND SINGLE MODE FIBER OPTIC CABLE IN 1-2" SCHEDULE 40 PVC CONDUIT AND THE SECOND CONDUIT WILL BE SPARE. SEE SPECIAL PROVISIONS FOR FIBER OPTIC CABLE REQUIREMENTS.
- 5 DRILL EXISTING HANDHOLE FOR NEW FIBER OPTIC CABLE INSERTION. FUSION SPLICE 6 STRANDS OF SINGLE MODE NEW FIBER OPTIC CABLE WITH 6 STRANDS OF EXISTING SINGLE MODE FIBER OPTIC CABLE AT THE EXISTING HANDHOLE AT THE SIMMONS STREET AND CEDAR STREET INTERSECTION TO MAKE A COMPLETE OPTICAL PATH BETWEEN CITY HALL AND THE NEW CAMERA LOCATIONS.
- 6 ROUTE SHIELDED CAT. 5E ETHERNET CABLE IN 1" SCHEDULE 40 PVC CONDUIT.
- 7 REFER TO ALLENS AVENUE AND EAST MAIN STREET ROADWAY LIGHTING PLAN FOR LOCATION.



KEYED NOTES (CONTINUED):

- 8 REFER TO ELECTRICAL SHEET "ELECTRICAL SERVICE AND GENERATOR SITE PLAN" FOR LOCATION.
- 9 EXISTING 2-2" SCHEDULE 40 PVC CONDUITS. ONE CONDUIT CONTAINS EXISTING HYBRID 12 STRAND 62.5/125 MULTIMODE AND 24 STRAND SINGLE MODE FIBER OPTIC CABLE AND THE SECOND CONDUIT IS A SPARE.
- 10 EXISTING HANDHOLE.
- 11 UTILIZE EXISTING SINGLE MODE FIBER TO COMPLETE THE OPTICAL PATH BETWEEN THE HANDHOLE AT SIMMONS STREET AND CEDAR STREET TO CITY HALL.

LAYOUT	AJT	6/11/15
DRAWN	AJT	7/7/15
REVIEWED	RON	7/8/15

FILE NAME =	USER NAME = anderson46	DESIGNED -	AJT	REVISED -	
PROJECT =	PROJECT =	DRAWN -	AJT	REVISED -	
PLOT SCALE = 100.0000' / 1" =		CHECKED -	RON	REVISED -	
PLOT DATE = 9/8/2015		DATE -	9/9/2015	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EAST MAIN STREET CCTV CAMERA SYSTEM SITE PLAN			
SCALE: 1"=100'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	163
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CCTV CAMERA SYSTEM BILL OF MATERIALS		
ITEM DESCRIPTION DESIGNATION	ITEM QUANTITY	
	UNITS	QUANTITY
CLOSED CIRCUIT TELEVISION DOME CAMERA	EA	2
SUPPORT EQUIPMENT AND MAINTENANCE	L SUM	1
CAT 5 ETHERNET CABLE	FOOT	500
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	2
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5000
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	300
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	10000
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	10
FIBER OPTIC FUSION SPLICE	EACH	18

LAYOUT	AJT	6/11/15
DRAWN	AJT	7/7/15
REVIEWED	RDN	7/8/15

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 DESIGNED - AJT
 DRAWN - AJT
 CHECKED - RDN
 DATE - 9/9/2015
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 9/8/2015

DESIGNED - AJT	REVISED -
DRAWN - AJT	REVISED -
CHECKED - RDN	REVISED -
DATE - 9/9/2015	REVISED -

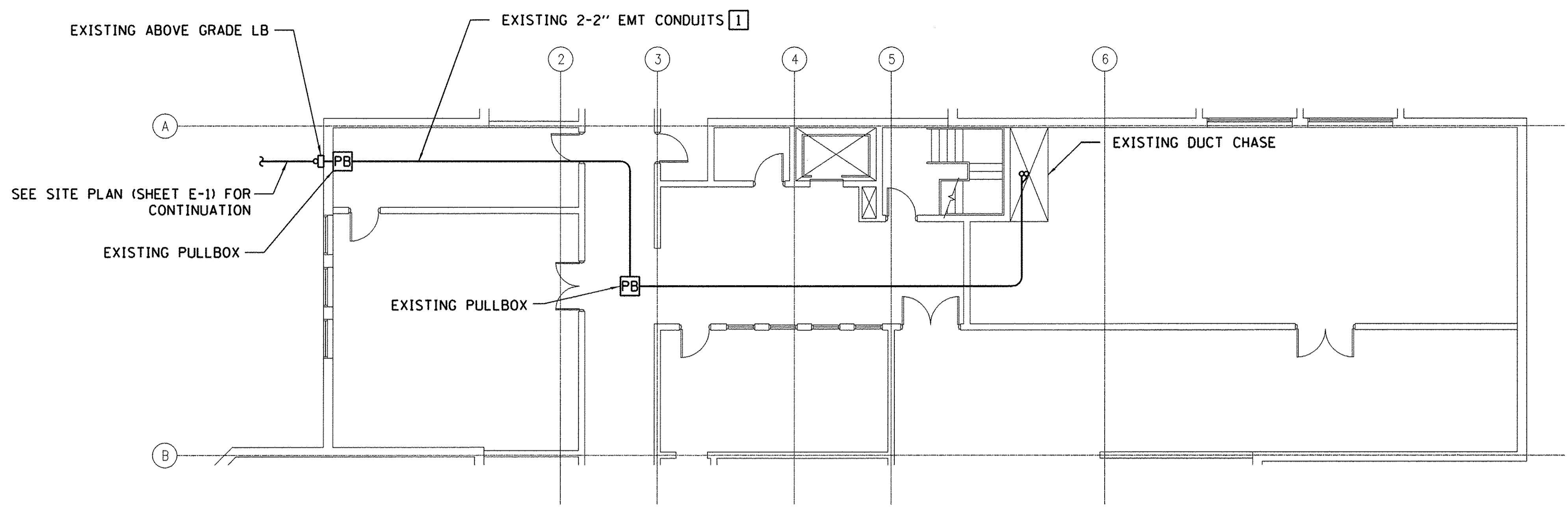
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
 CCTV CAMERA SYSTEM BILL OF MATERIALS**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

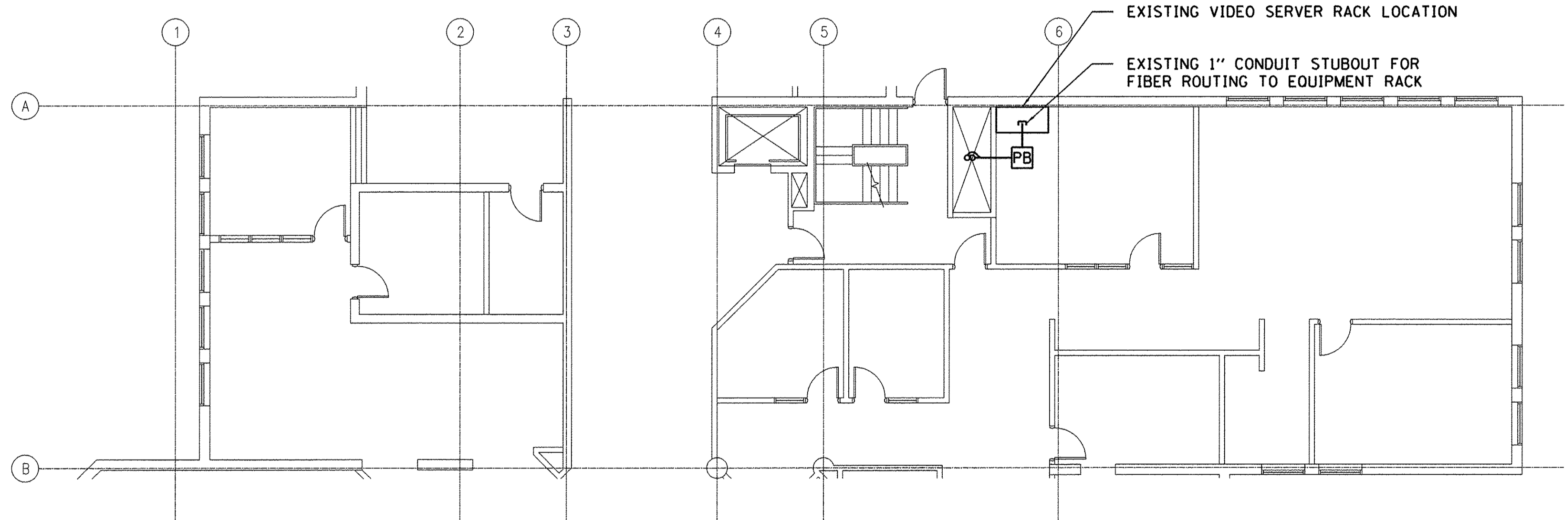
SHEET IS FOR REFERENCE ONLY SHOWING EXISTING FIBER ROUTING. NO NEW WORK IS REQUIRED ON THIS SHEET.



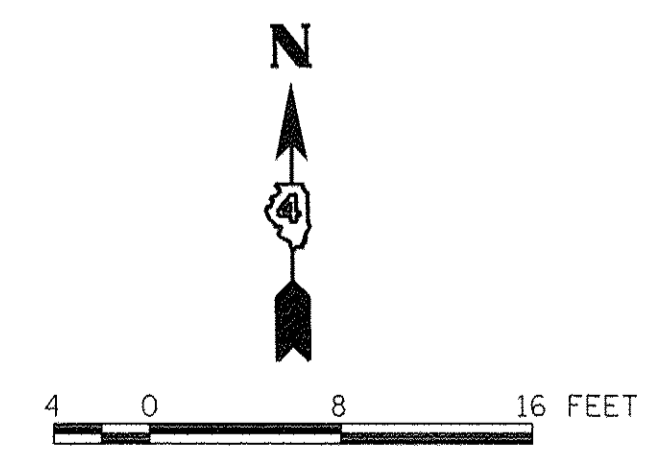
BASEMENT FLOOR EXISTING PLAN

KEYED NOTES:
1 1 EXISTING CONDUIT CONTAINS EXISTING HYBRID 12 STRAND 62.5/125 MULTIMODE AND EXISTING 24 STRAND SINGLE MODE FIBER OPTIC CABLE IN 1" UNI-DUCT. THE SECOND EXISTING CONDUIT IS SPARE.

FOR INFORMATION ONLY



FIRST FLOOR EXISTING PLAN



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LAYOUT	AJT	6/11/15
DRAWN	AJT	7/7/15
REVIEWED	RDN	7/8/15

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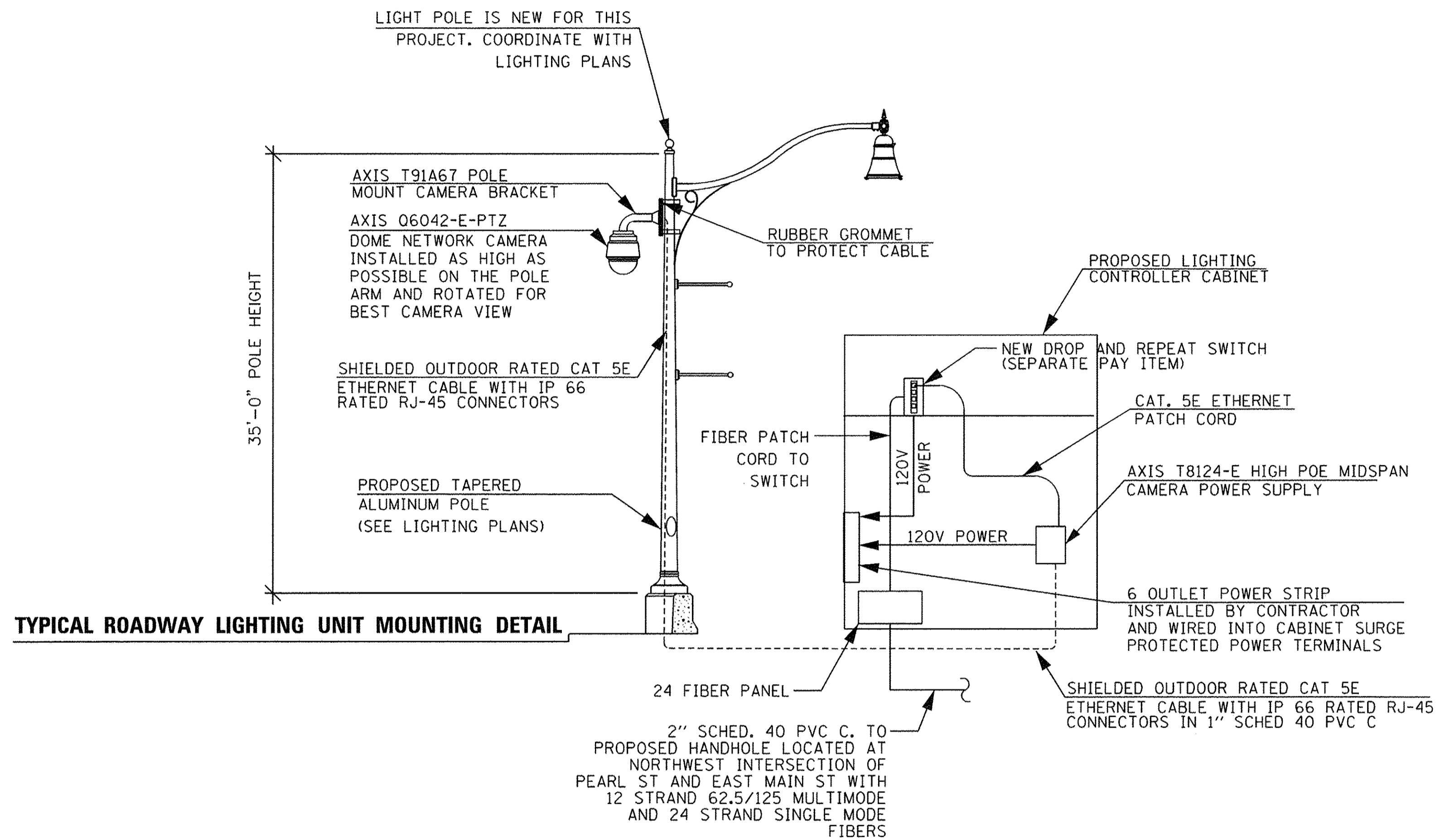
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
 EXISTING CITY HALL VIDEO PLANS**

SCALE: 1/8"=1'-0" SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	165
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

E-3



NOTES:

1. THE DEPARTMENT WILL PROGRAM THE CCTV CAMERAS PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL INSPECT AND TEST THE CAT 5E ETHERNET CABLE PRIOR TO INSTALLATION.
3. THE DEPARTMENT WILL CONNECT THE PROPOSED CCTV CAMERAS TO THE ITS NETWORK AND INTEGRATE THEM INTO THE EXISTING ITS VIDEO SUBSYSTEM.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A POWER STRIP WITH INTEGRAL SURGE SUPPRESSION IN EACH CABINET FOR CAMERA POWER. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE CCTV DOME CAMERA.
5. TERMINATE 12 SINGLE MODE FIBERS AND 12 MULTIMODE FIBERS IN PROPOSED LIGHTING CONTROLLER CABINET WITH ST CONNECTIONS. SPLICE REMAINING 12 SINGLE MODE FIBERS CONTINUOUS.

ALLENS AVENUE AND EAST MAIN STREET INTERSECTION
 SCALE: NONE

LAYOUT	AJT	6/11/15
DRAWN	AJT	7/7/15
REVIEWED	RDN	7/8/15

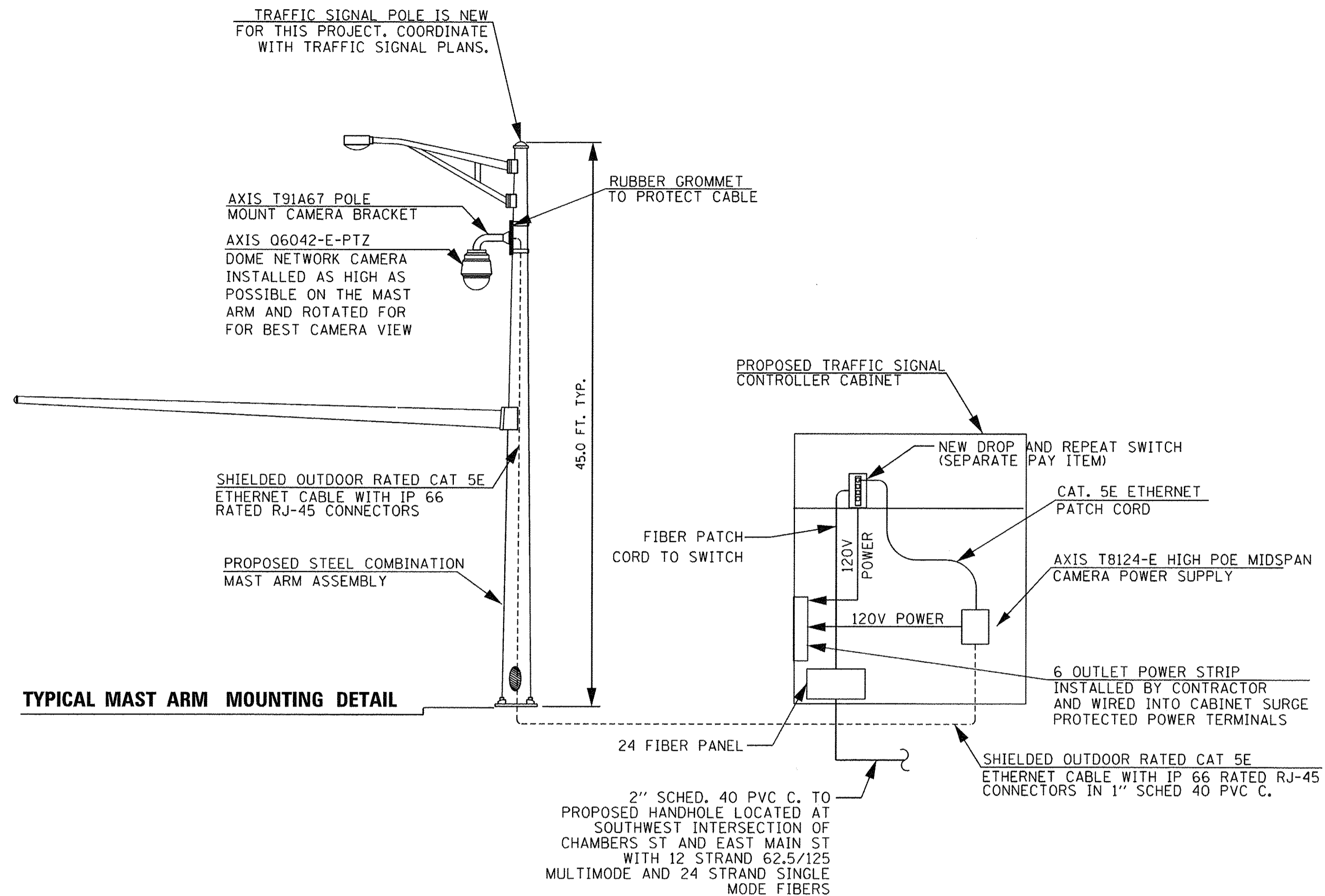
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PLOT DATE = 9/8/2015		DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
 CCTV DOME CAMERA INSTALLATION DETAIL 1**

SCALE: 1/8"=1'-0" SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	166
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

1. THE DEPARTMENT WILL PROGRAM THE CCTV CAMERAS PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL INSPECT AND TEST THE CAT 5E ETHERNET CABLE PRIOR TO INSTALLATION.
3. THE DEPARTMENT WILL CONNECT THE PROPOSED CCTV CAMERAS TO THE ITS NETWORK AND INTEGRATE THEM INTO THE EXISTING ITS VIDEO SUBSYSTEM.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A POWER STRIP WITH INTEGRAL SURGE SUPPRESSION IN EACH TRAFFIC SIGNAL CONTROLLER CABINET FOR CAMERA POWER. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE CCTV DOME CAMERA.
5. TERMINATE 12 SINGLE MODE FIBERS AND 12 MULTIMODE FIBERS IN PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET WITH ST CONNECTORS. SPLICE REMAINING 12 SINGLE MODE FIBERS CONTINUOUS.

CHAMBERS STREET AND EAST MAIN STREET INTERSECTION

SCALE: NONE

LAYOUT	AJT	6/11/15
DRAWN	AJT	7/7/15
REVIEWED	RDN	7/8/15

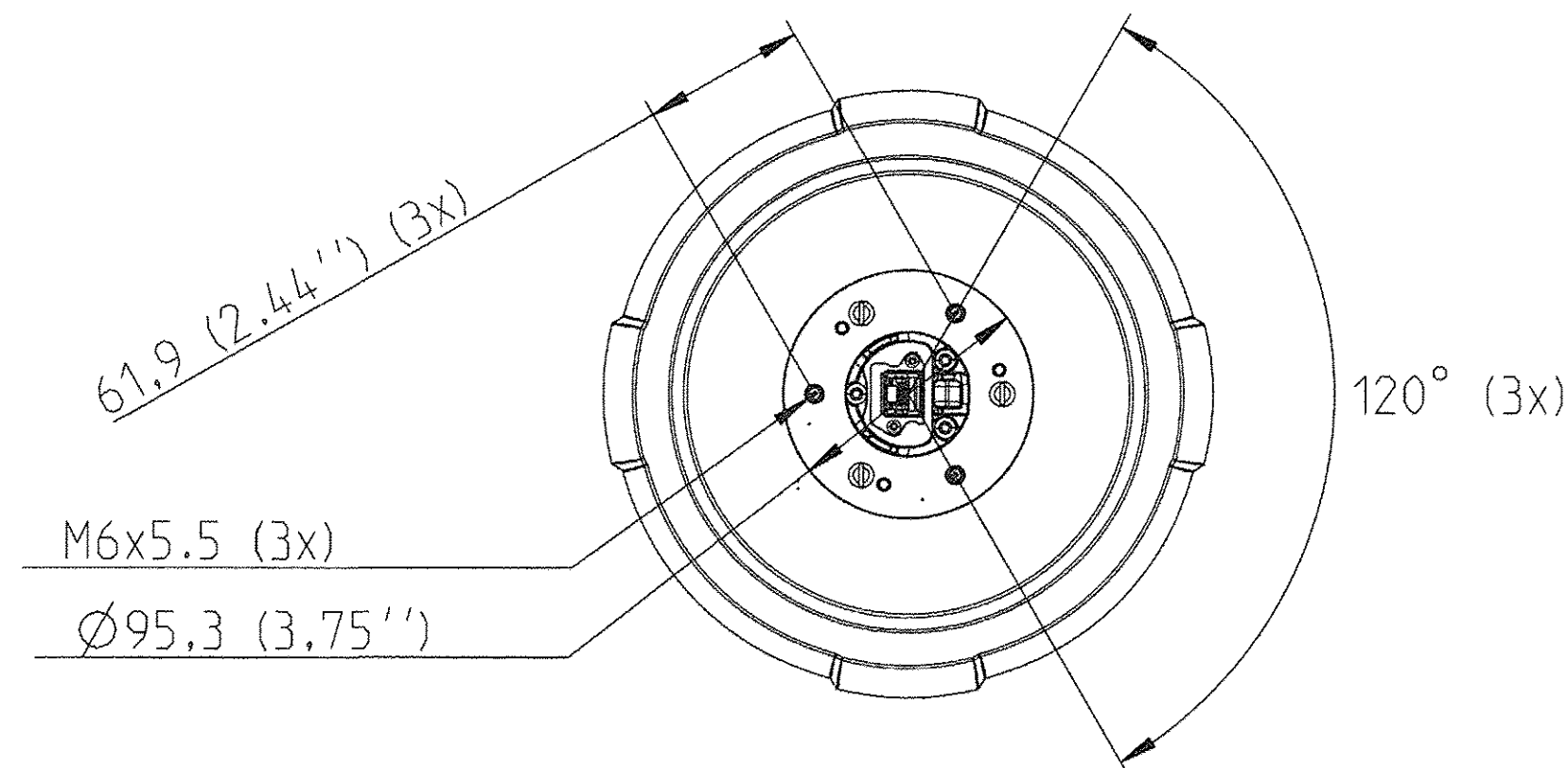
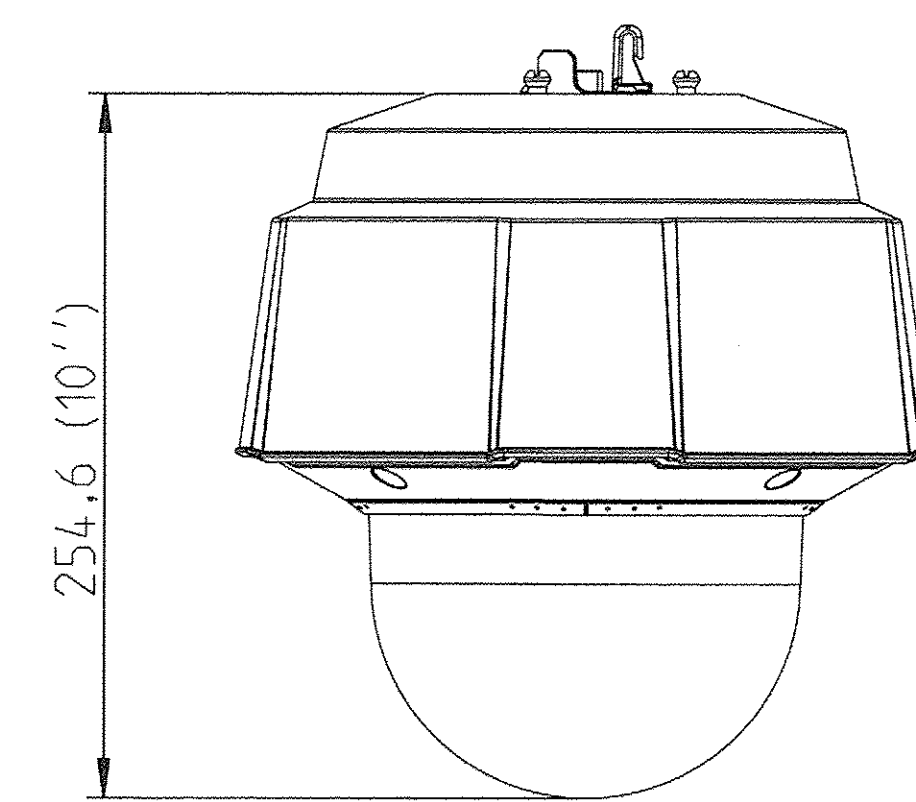
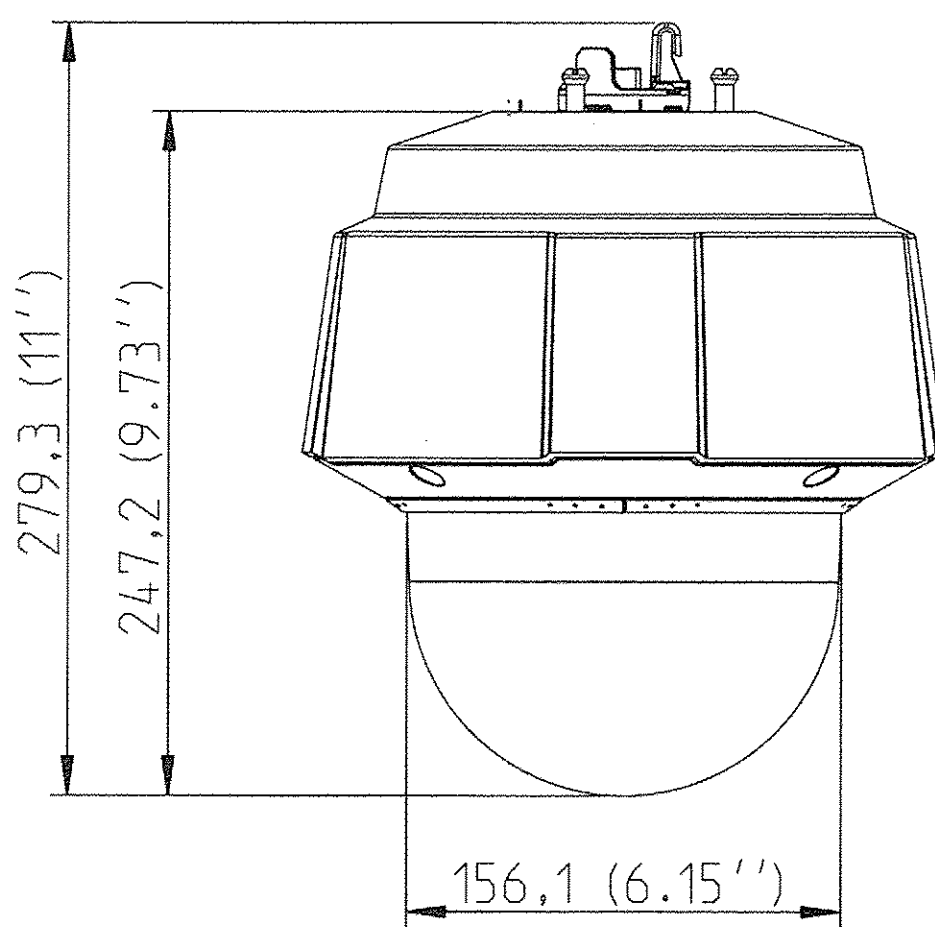
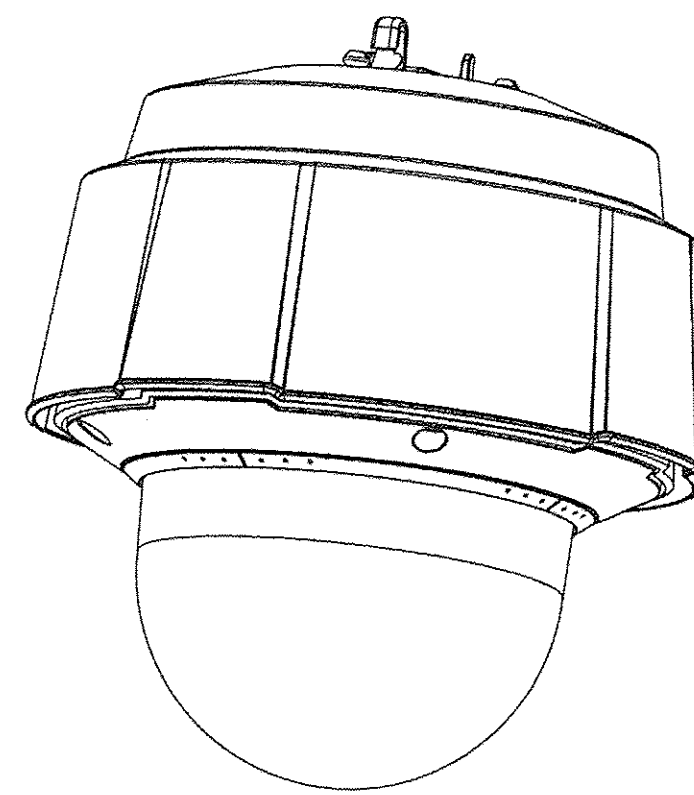
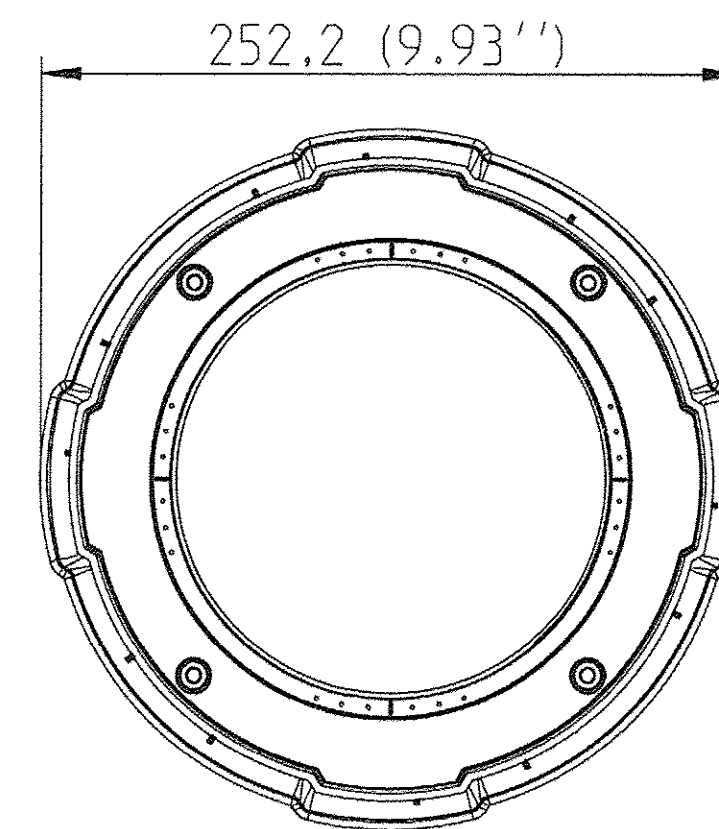
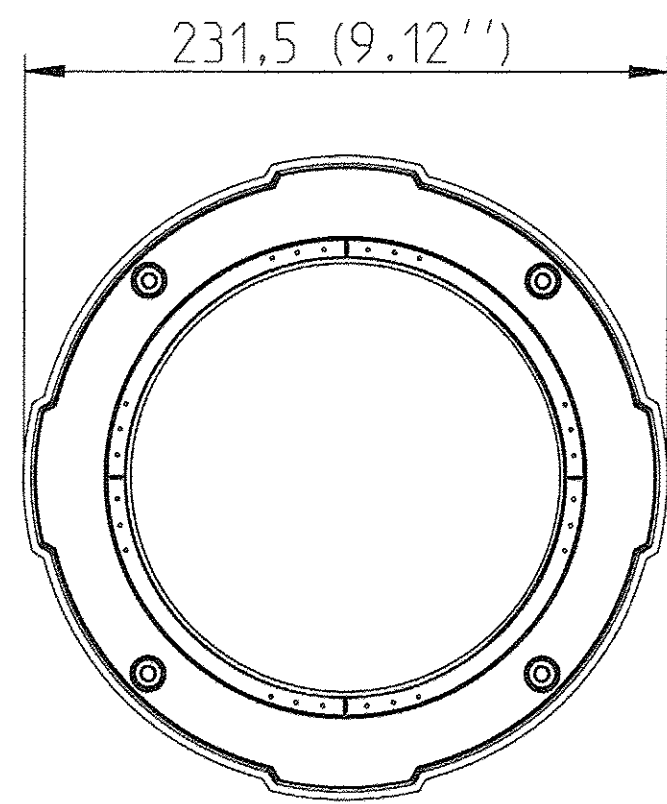
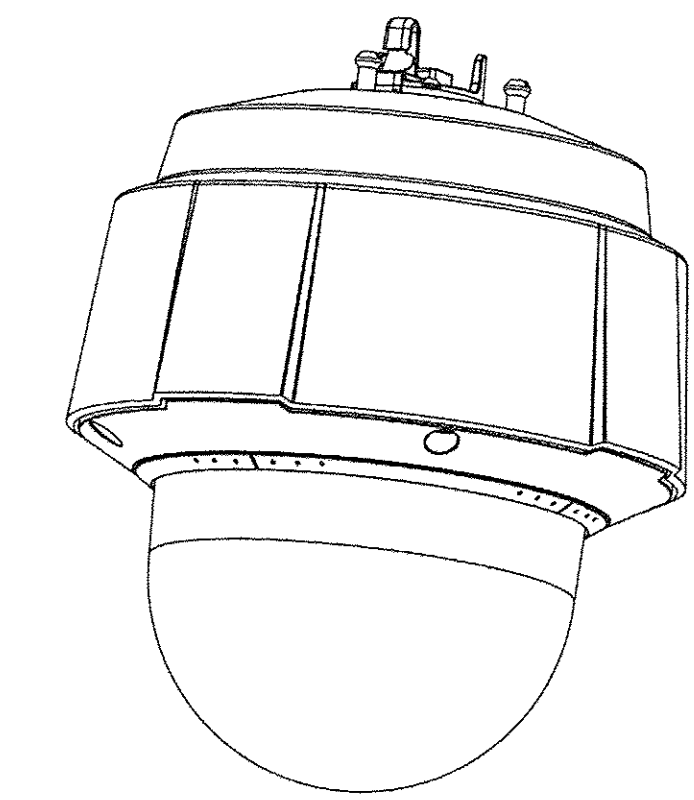
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PLOT DATE = 9/8/2015		DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
 CCTV DOME CAMERA INSTALLATION DETAIL 2**

SCALE: 1/8"=1'-0" SHEET NO. OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-CS	KNOX	221	167
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

AXIS Q6042-E PTZ Dome Network Camera



LAYOUT	AJT	6/11/15
DRAWN	AJT	7/7/15
REVIEWED	RDN	7/8/15

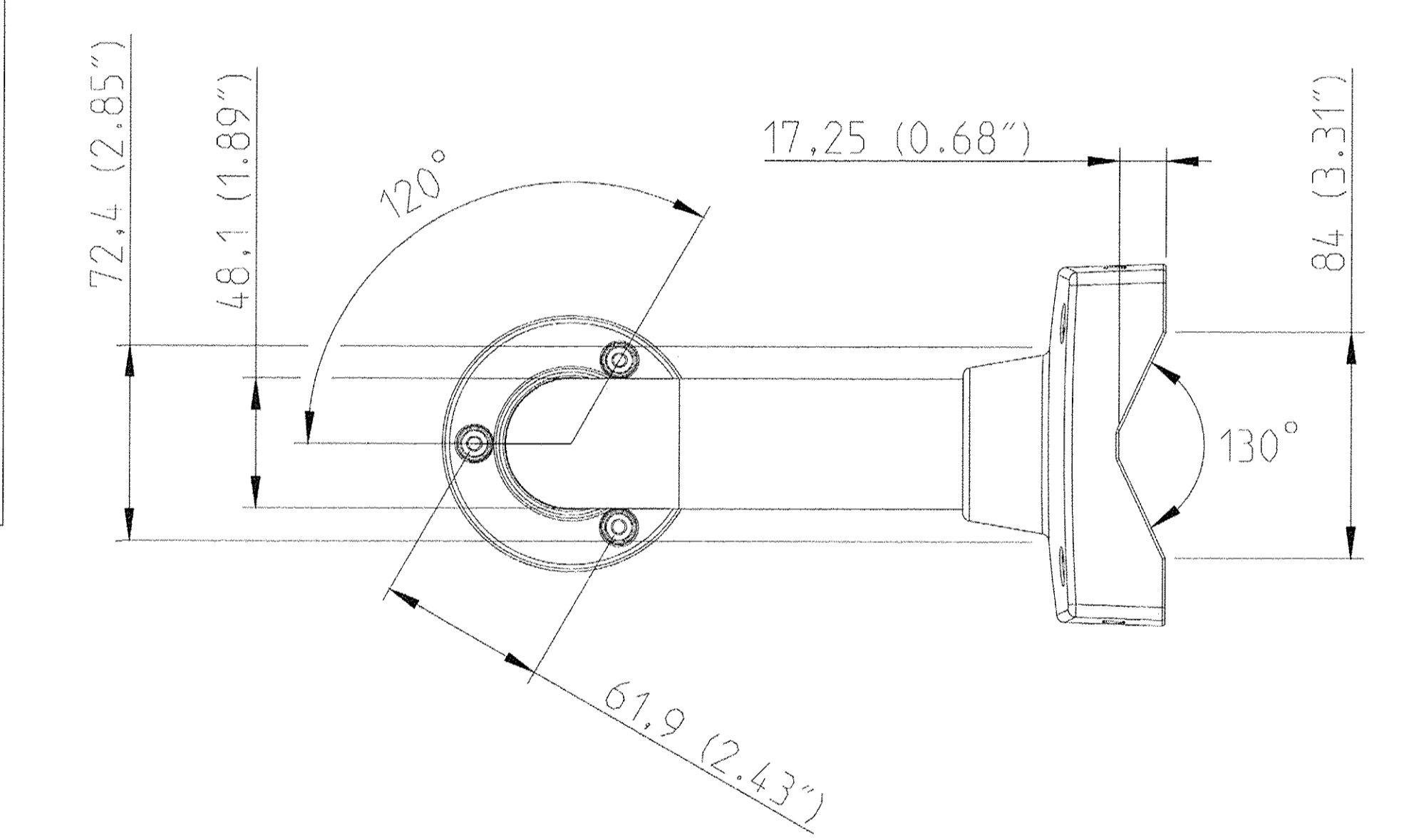
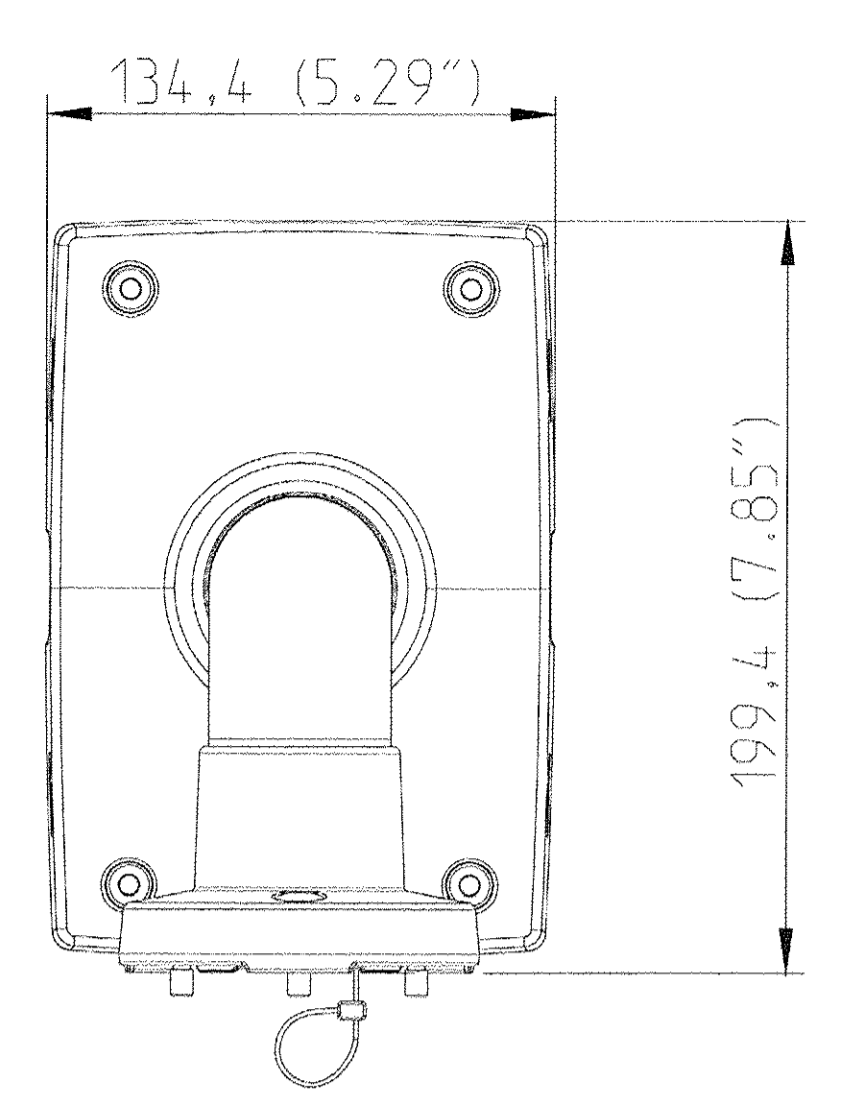
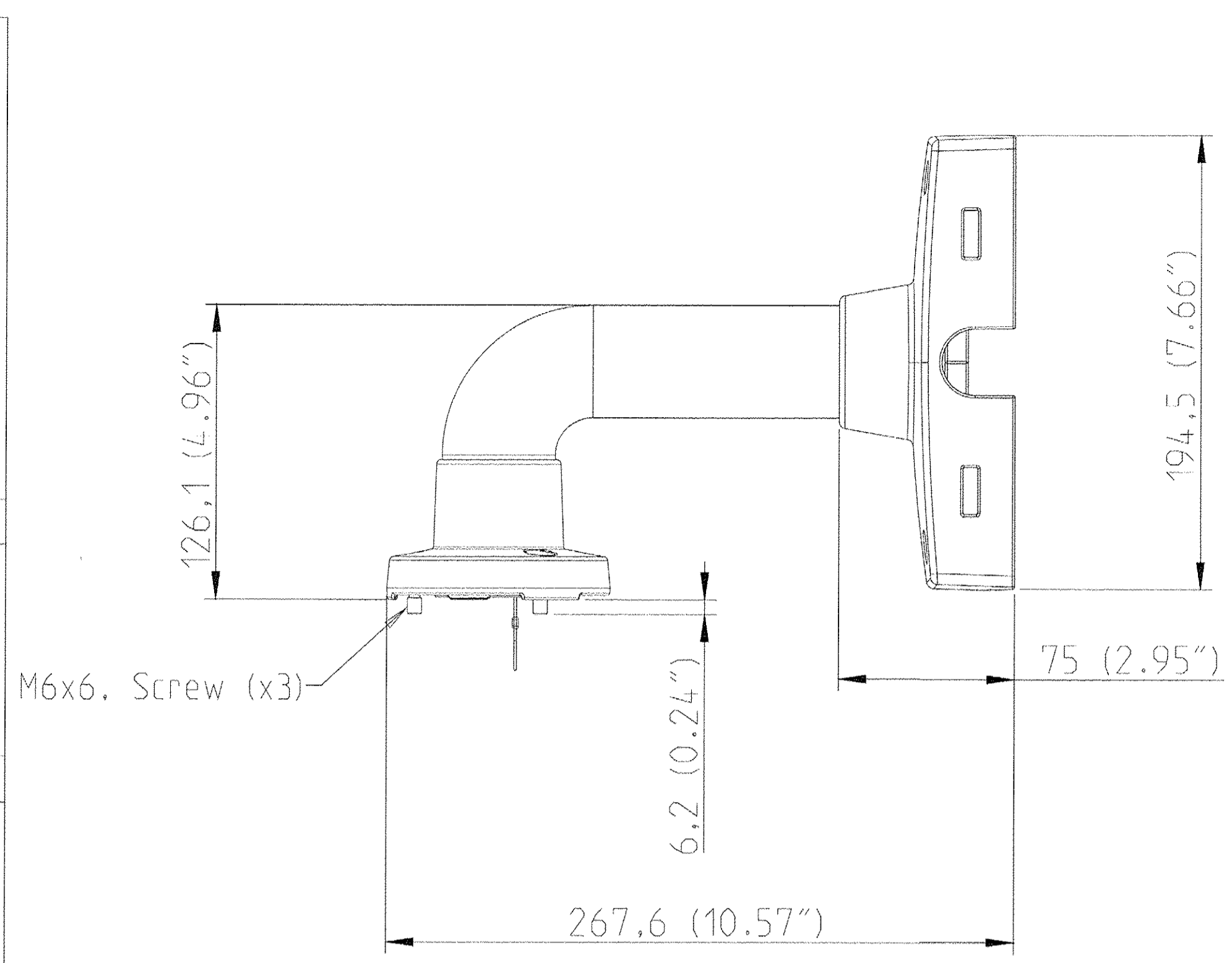
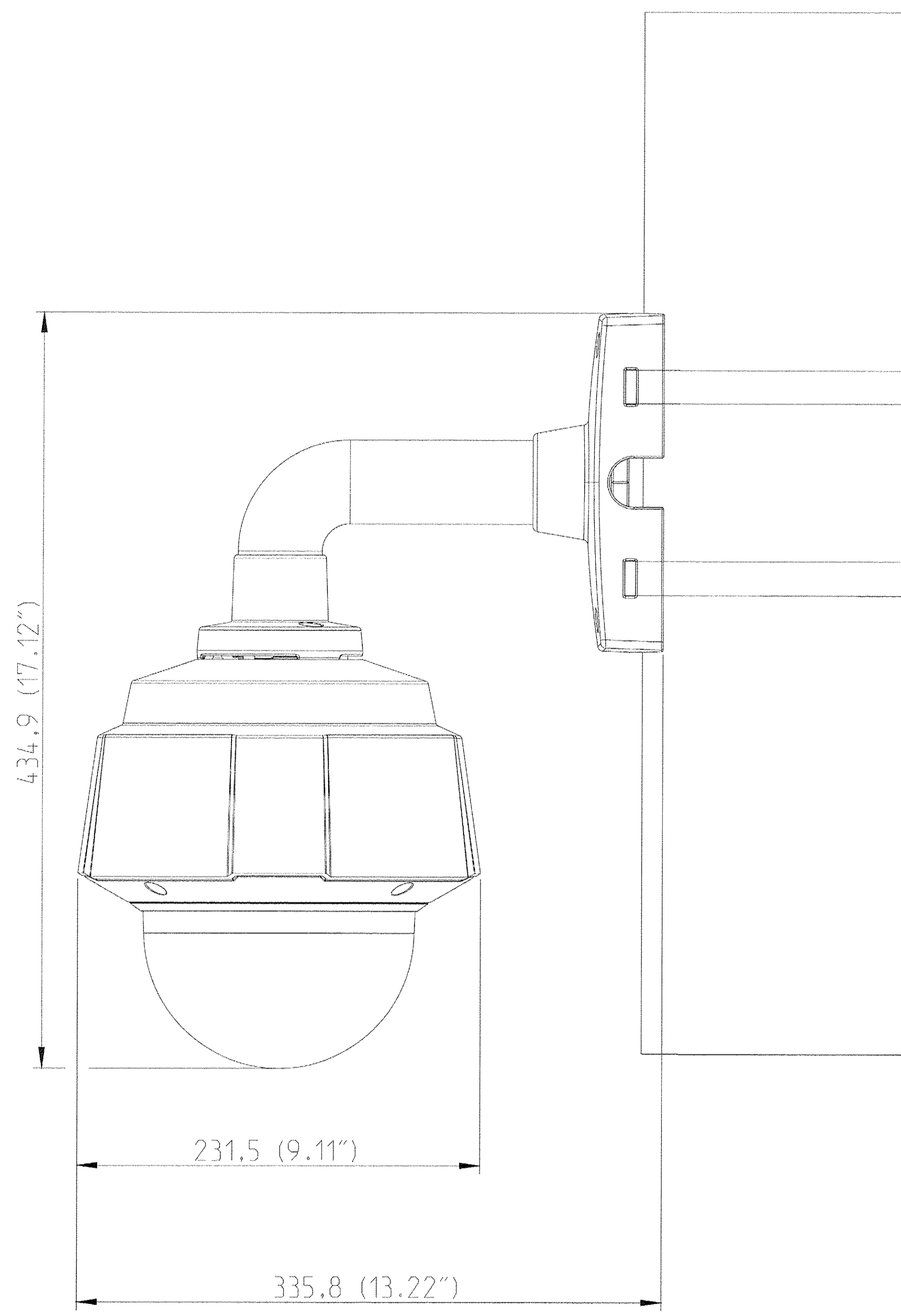
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

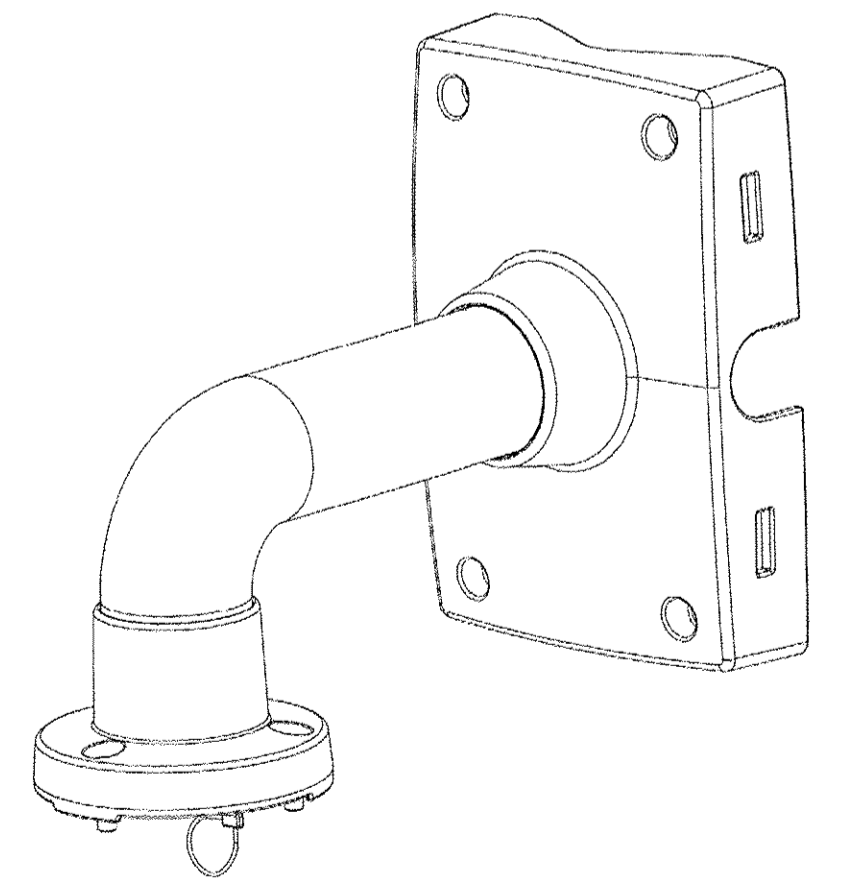
EAST MAIN STREET			
CCTV DOME CAMERA DETAIL			
SCALE: 1/8"=1'-0"	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	168
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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FOR INFORMATION ONLY



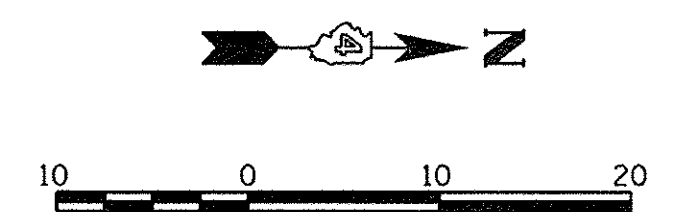
AXIS T91A67 MOUNT POLE - Accessories



LAYOUT	AJT	6/11/15
DRAWN	AJT	7/7/15
REVIEWED	RDN	7/8/15

FILE NAME =	USER NAME = ender00846	DESIGNED - AJT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST MAIN STREET CCTV DOME CAMERA POLE MOUNTING BRACKET DETAIL			F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 169
DRAWN - AJT	REVIEWED - RDN	CHECKED - RDN	REVISED -		SCALE: 1/8"=1'-0"	SHEET NO.	OF SHEETS	STA.	TO STA.	50VB CONTRACT NO.89417		
PLOT SCALE = 96.0000 / 1 in.	DATE - 9/9/2015	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
PLOT DATE = 9/8/2015	REVISED -	REVISED -	REVISED -		E-7							

**PRELIMINARY
NOT FOR CONSTRUCTION**



SUB-LOT
BLOCK 62

2-CENTER CURVE INFORMATION
R1 = 30'
R2 = 20'
O/S = 5.0'

EAST MAIN STREET

CHAMBERS AVENUE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET AND CHAMBERS STREET
INTERSECTION DETAIL**

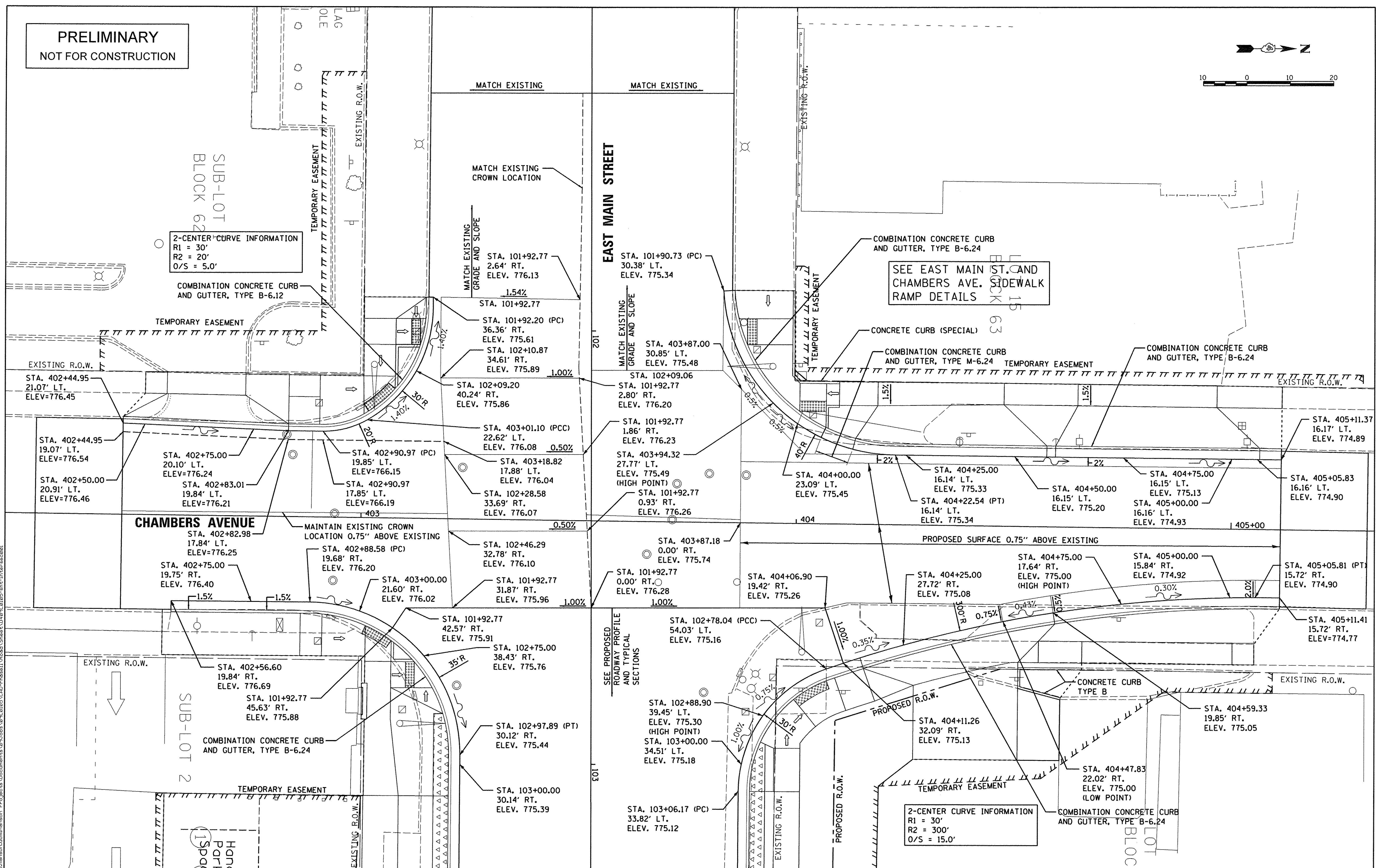
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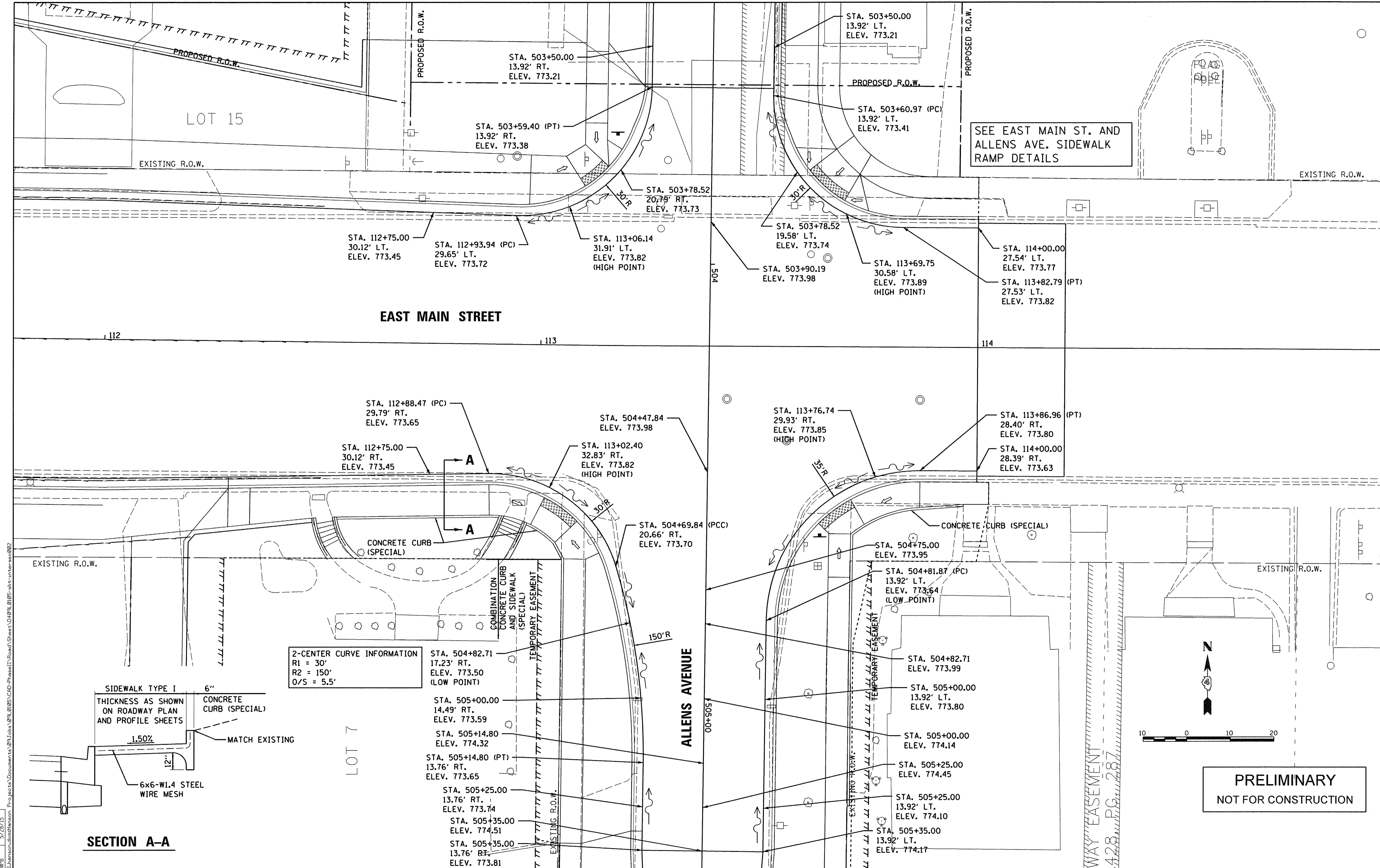
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DRAWN	5/27/15
REVIEWED	5/28/15

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		MPB	

SCALE: 1"=10'	SHEET NO.	OF SHEETS	STA.	TO STA.
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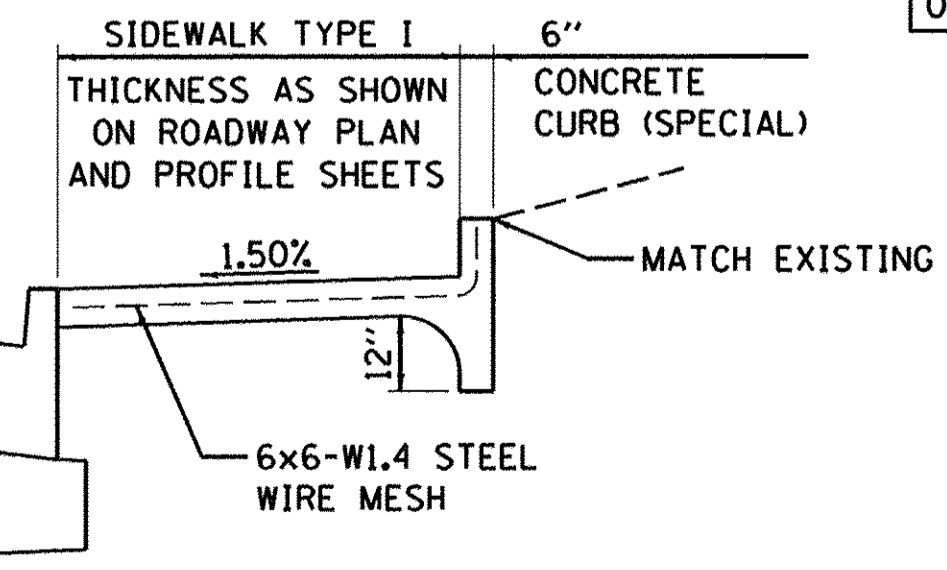
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6800	05-00500-19-GS	KNOX	221	170
50VB		CONTRACT NO. 89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





SEE EAST MAIN ST. AND ALLENS AVE. SIDEWALK RAMP DETAILS

2-CENTER CURVE INFORMATION
 R1 = 30'
 R2 = 150'
 O/S = 5.5'



SECTION A-A

PRELIMINARY
 NOT FOR CONSTRUCTION

RLA	2/11/14
MGD	5/27/15
MPB	5/28/15
REVIEWED	

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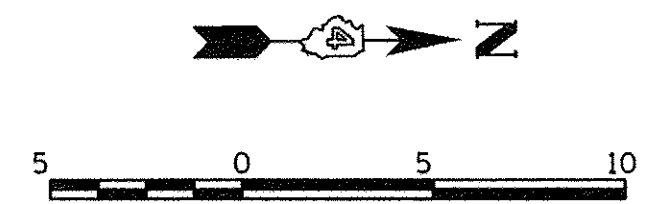
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET AND ALLENS AVENUE
INTERSECTION DETAIL

SCALE: 1"=10'
 SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

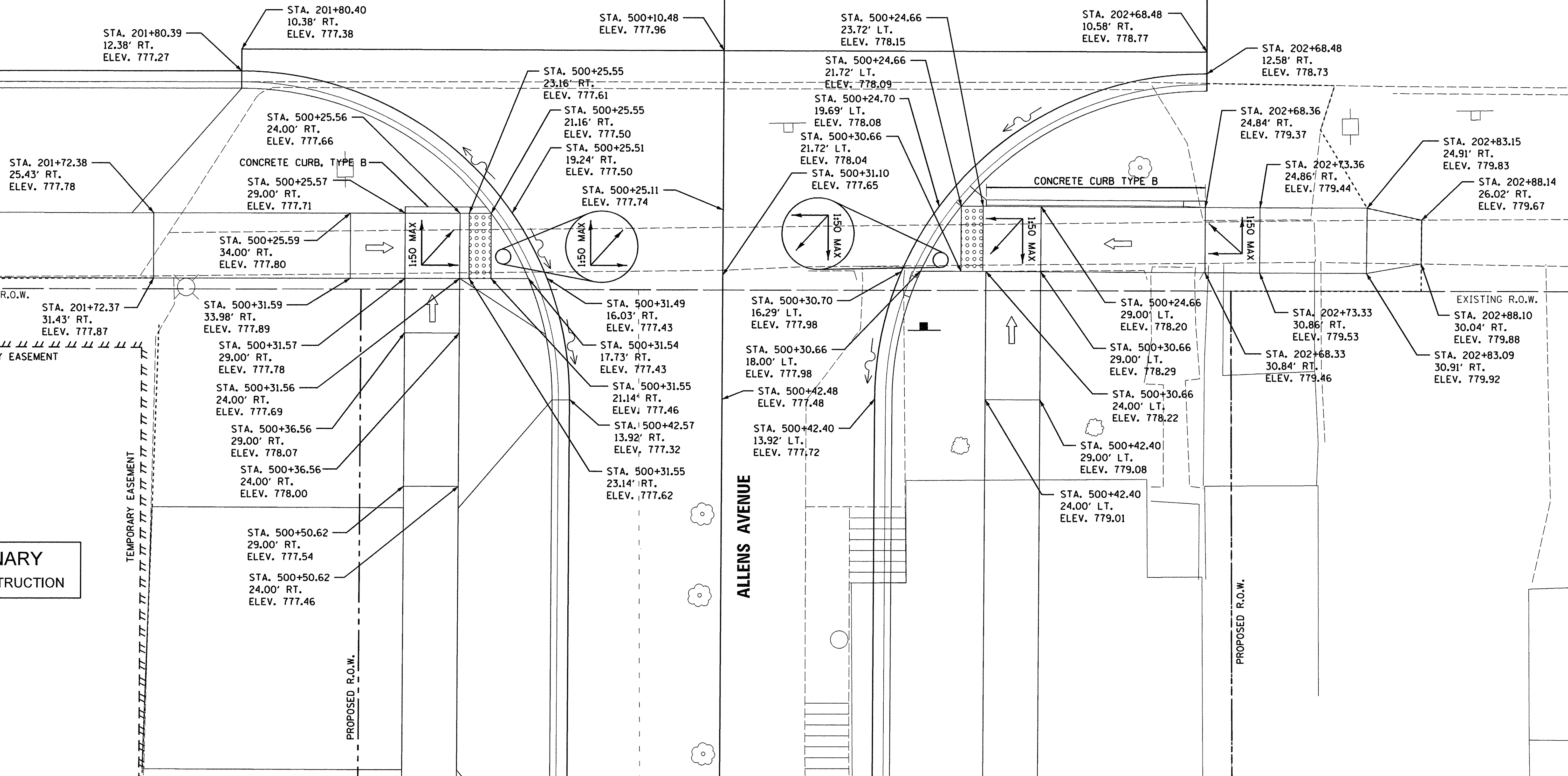
PEARL STREET



202

203

500+00



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PRELIMINARY
 NOT FOR CONSTRUCTION

LAYOUT	PLA	2/11/14
DRAWN	MGD	5/27/15
REVIEWED	MPB	5/28/15

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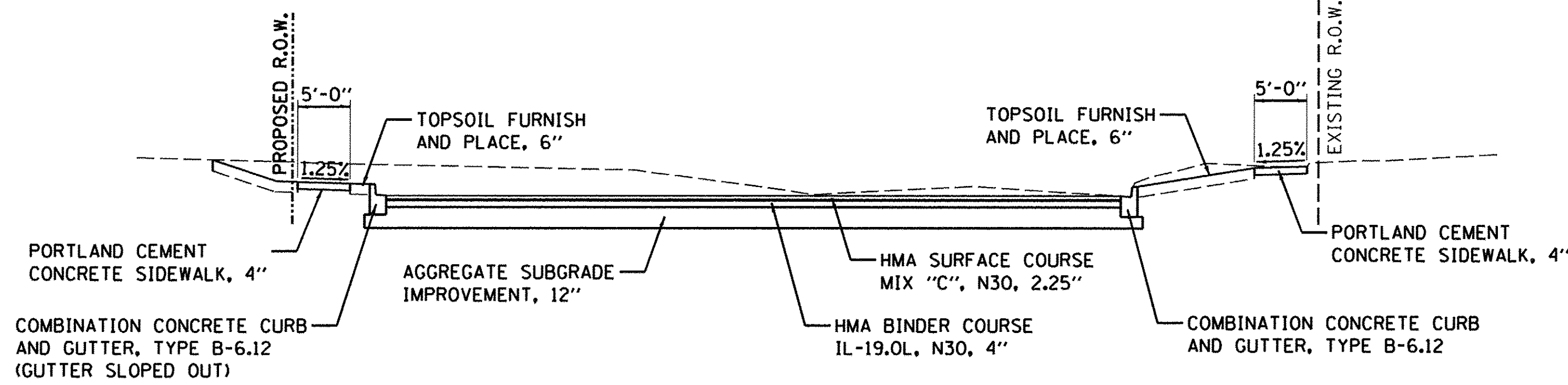
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET AND ALLENS AVENUE
INTERSECTION DETAIL

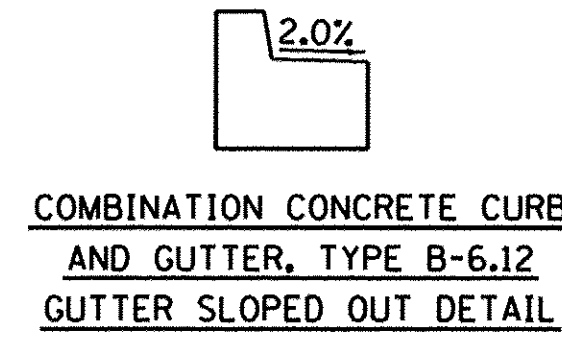
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50VB		CONTRACT NO. 89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.

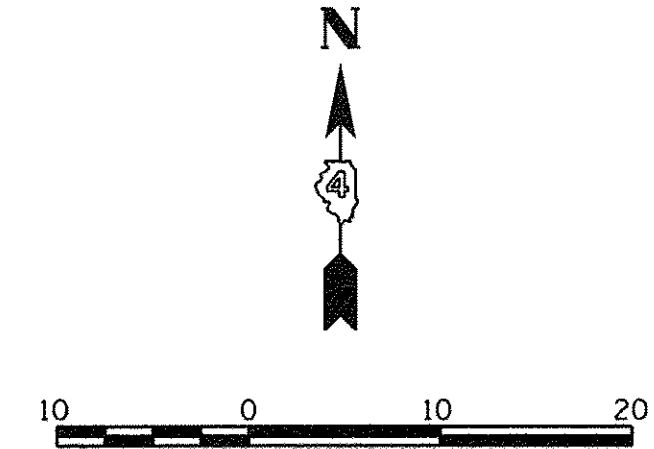
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					N	S	E	W
S111	107+65.30	129.22	LT	778.19	775.00			



SECTION A-A

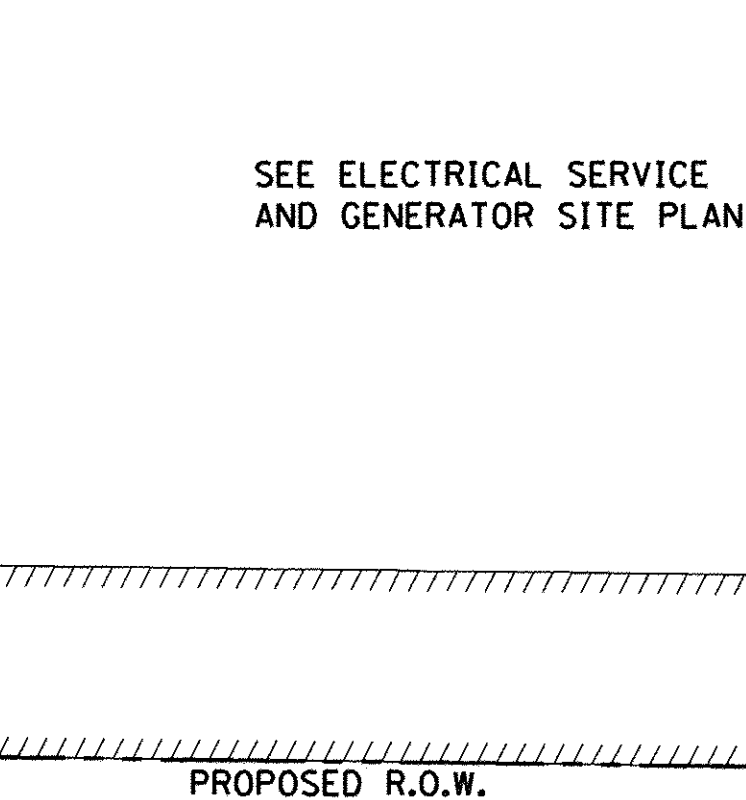
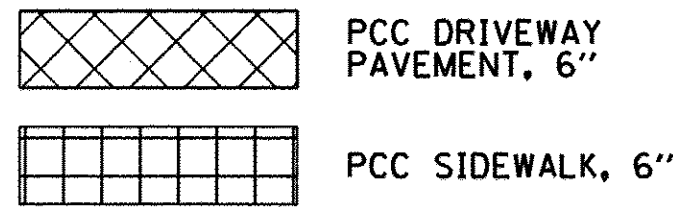


SUMNER STREET



**PRELIMINARY
NOT FOR CONSTRUCTION**

LEGEND - DRIVEWAYS



SEE ELECTRICAL SERVICE AND GENERATOR SITE PLAN

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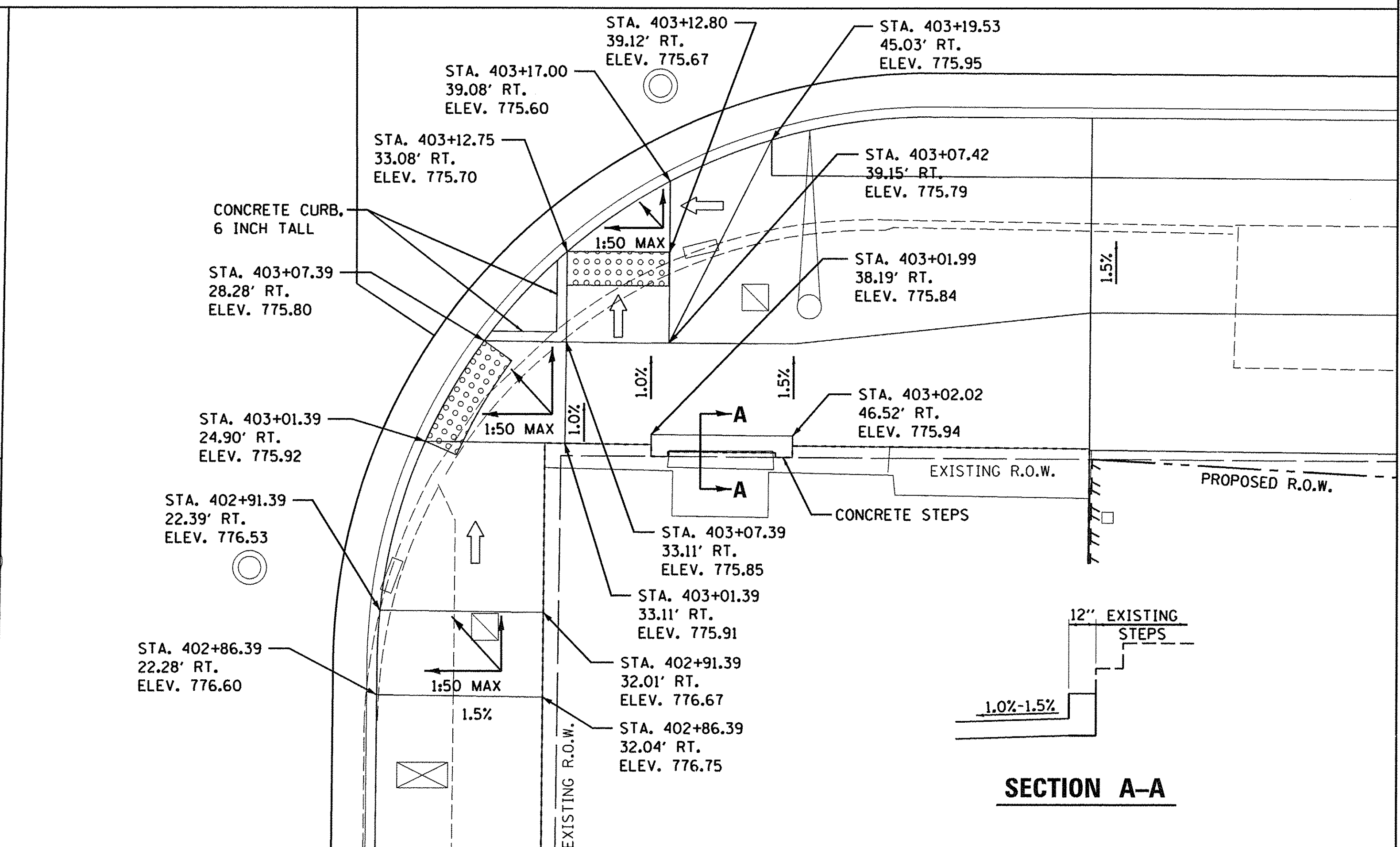
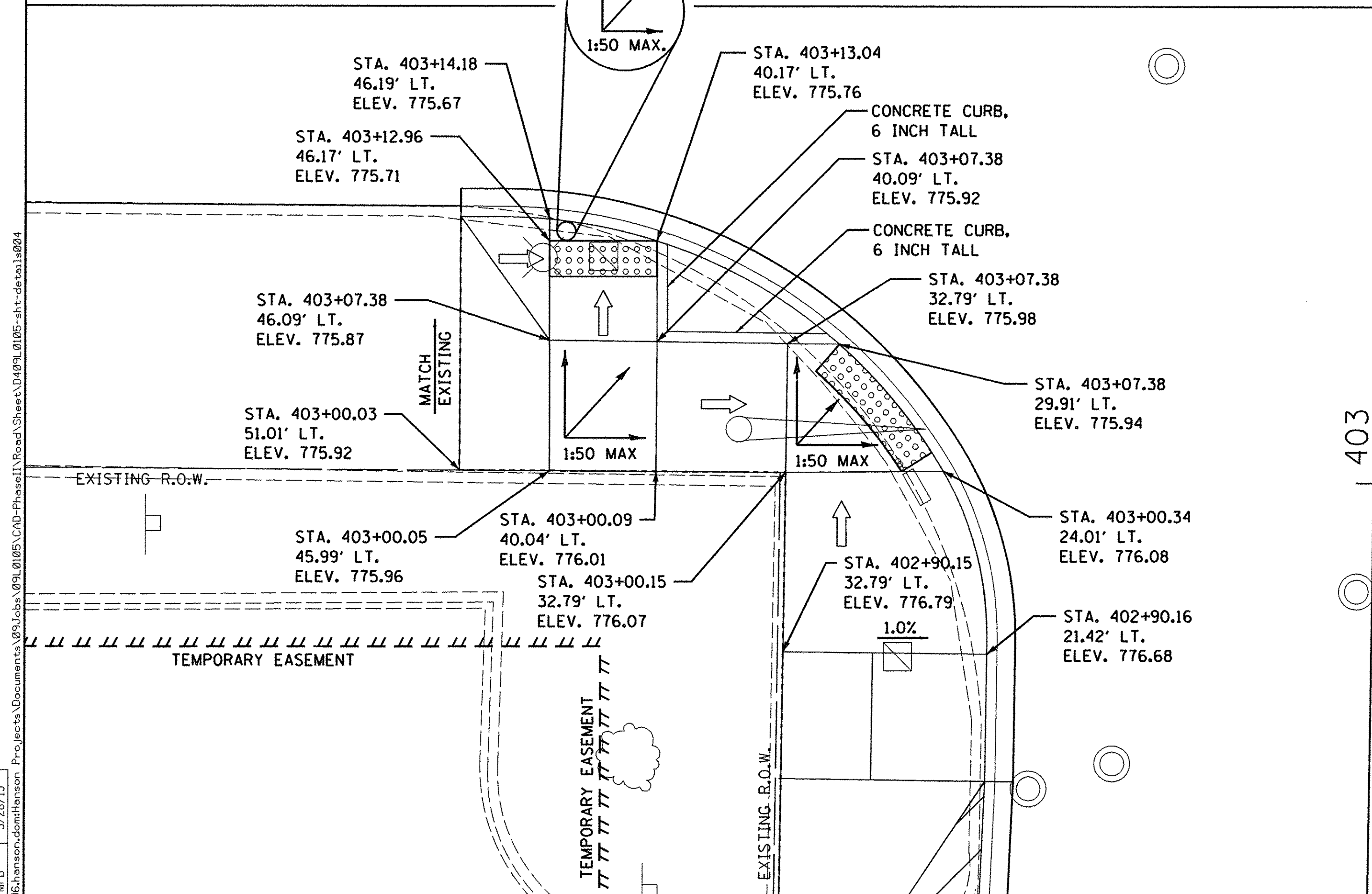
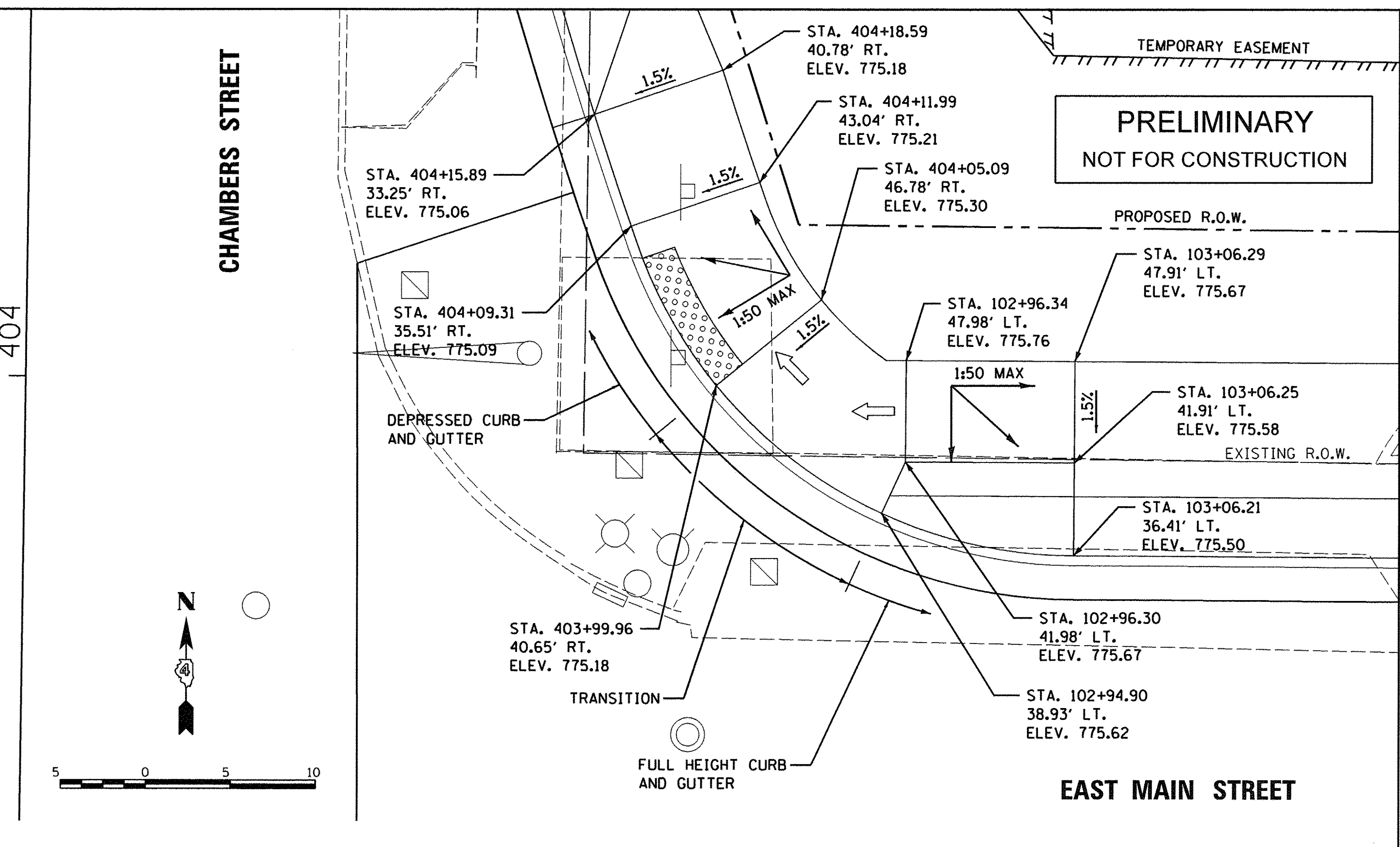
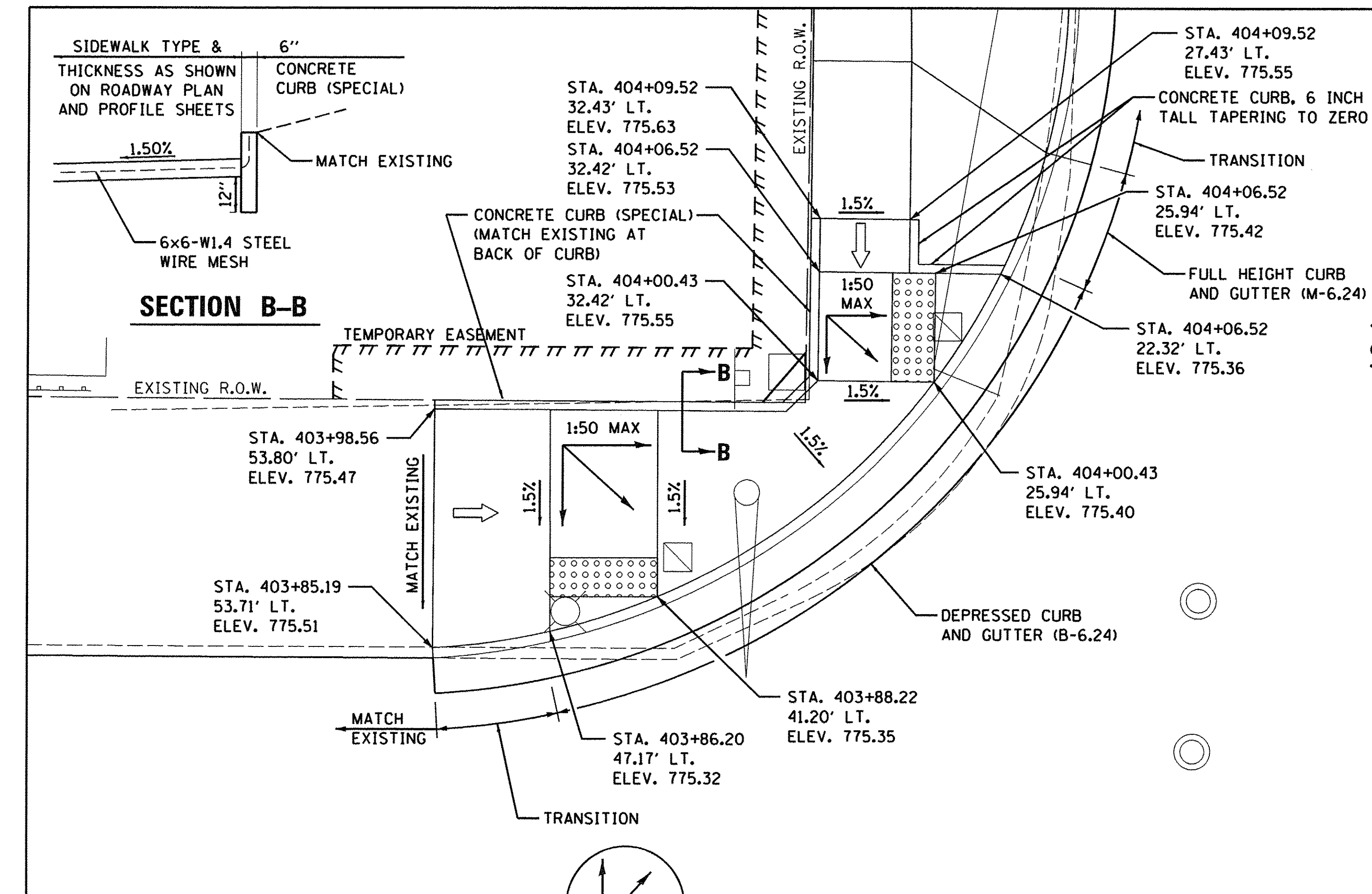
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DRAWN	5/27/15
REVIEWED	5/28/15
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DESIGNED	- RLA
DRAWN	- MGD
CHECKED	- MPB
DATE	- 9/8/2015
DESIGNED	-
REVISÉD	-
REVISÉD	-
REVISÉD	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMNER STREET
CUL-DE-SAC DETAIL**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	173
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PRELIMINARY
 NOT FOR CONSTRUCTION

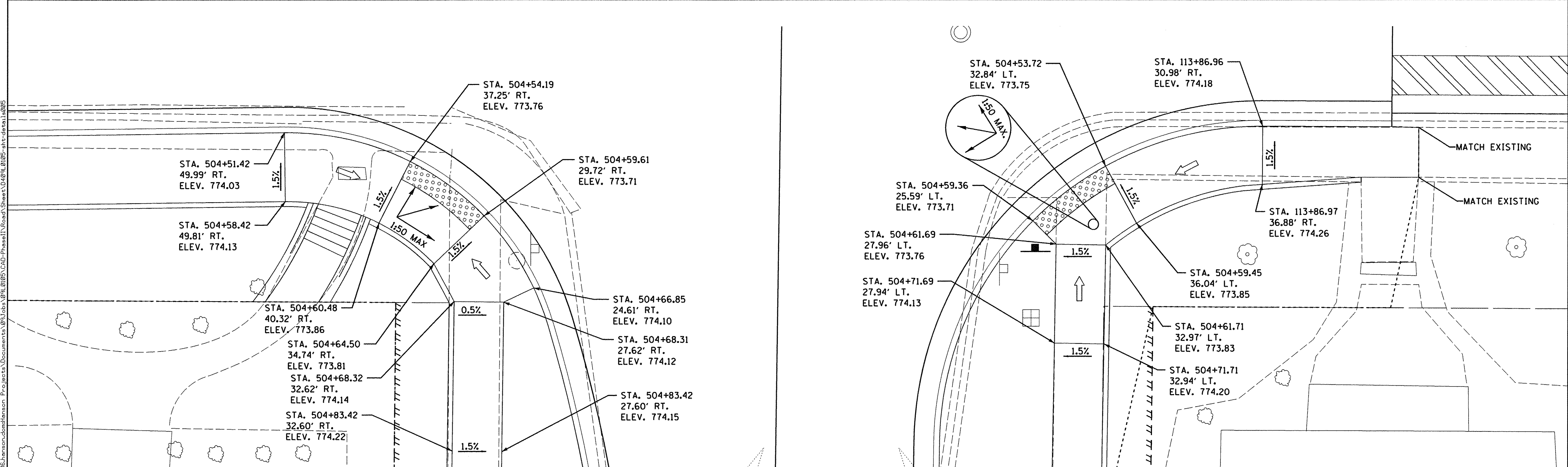
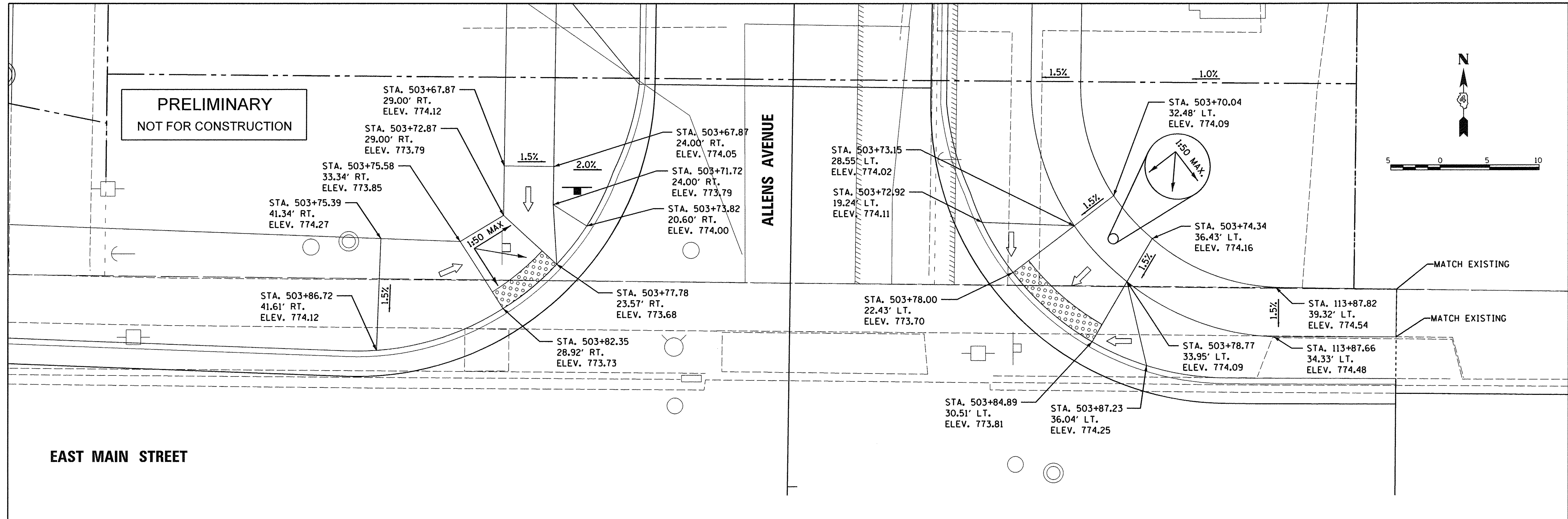
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DRAWN	MPB	5/27/15
REVIEWED	MPB	5/28/15

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PLOT SCALE = 5.0000' / 1"		CHECKED - MPB	REVISED -
PLOT DATE = 9/8/2015		DATE - 9/9/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET AND CHAMBERS STREET			
SIDEWALK RAMP DETAILS			
SCALE: 1"=5'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	174
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LAYOUT	2/11/14
DRAWN	5/27/15
REVIEWED	5/28/15

FILE NAME =	USER NAME = andr00846	DESIGNED - RLA	REVISED -
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PLOT DATE = 9/9/2015		DATE - 9/9/2015	REVISED -

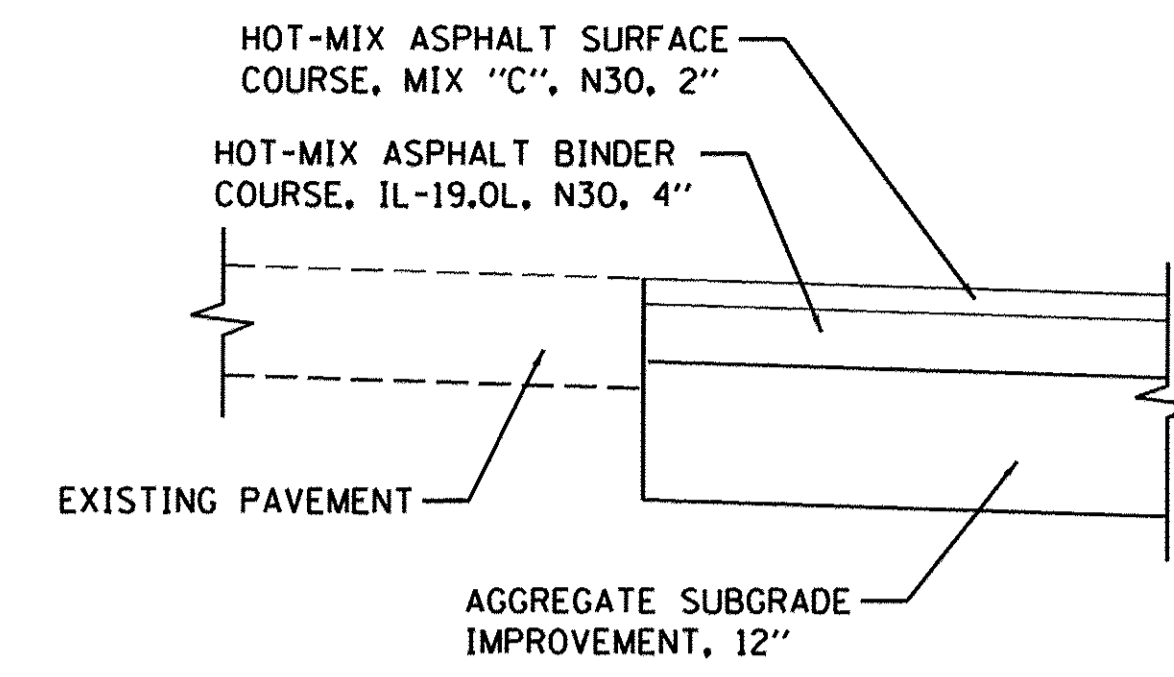
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET AND ALLENS AVENUE
 SIDEWALK RAMP DETAILS**

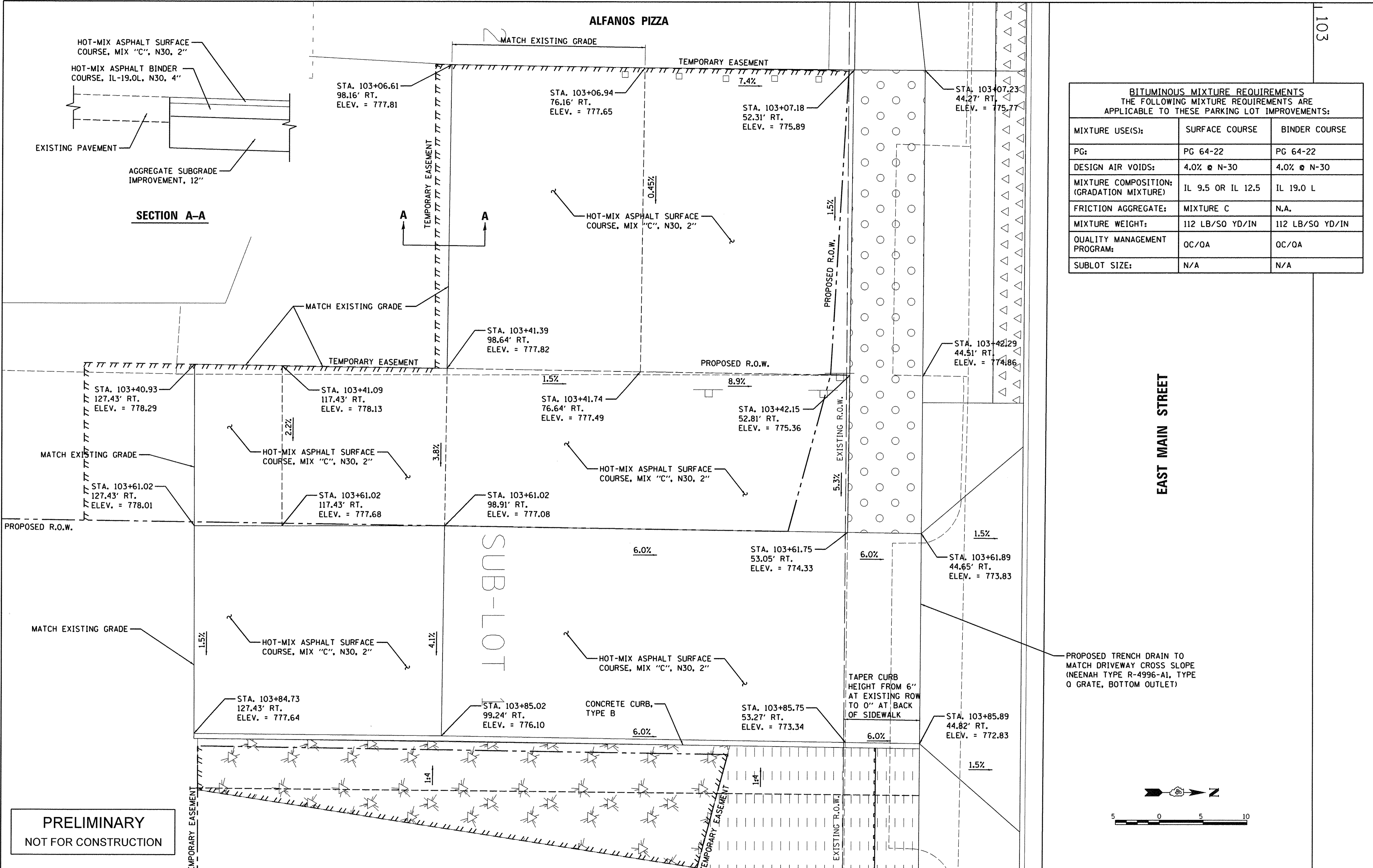
SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	175
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BITUMINOUS MIXTURE REQUIREMENTS THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THESE PARKING LOT IMPROVEMENTS:		
MIXTURE USE(S):	SURFACE COURSE	BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N-30	4.0% @ N-30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR IL 12.5	IL 19.0 L
FRICTION AGGREGATE:	MIXTURE C	N.A.
MIXTURE WEIGHT:	112 LB/SO YD/IN	112 LB/SO YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/OA	QC/OA
SUBLOT SIZE:	N/A	N/A



SECTION A-A



**PRELIMINARY
NOT FOR CONSTRUCTION**



RLA	2/11/14
MGD	5/27/15
MPB	5/28/15

FILE NAME =	USER NAME = andr00846	DESIGNED - RLA	REVISED -
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		CHECKED - MPB	REVISED -
		DATE - 9/9/2015	REVISED -

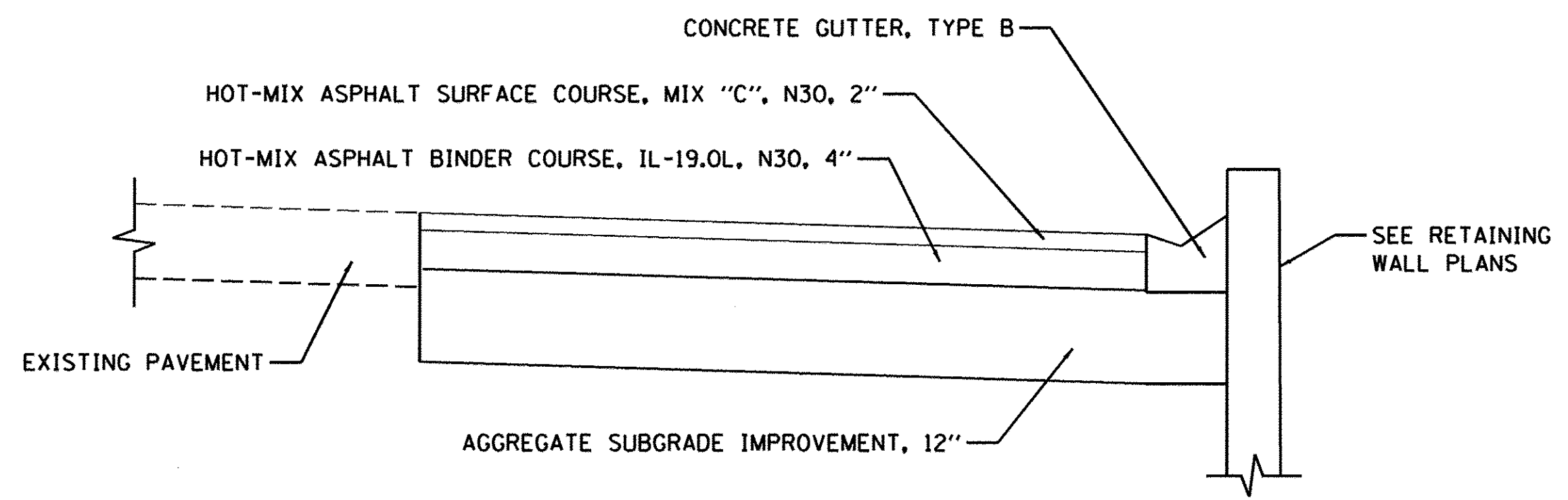
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SITE LAYOUT AND GRADING DETAILS
508 EAST MAIN STREET**

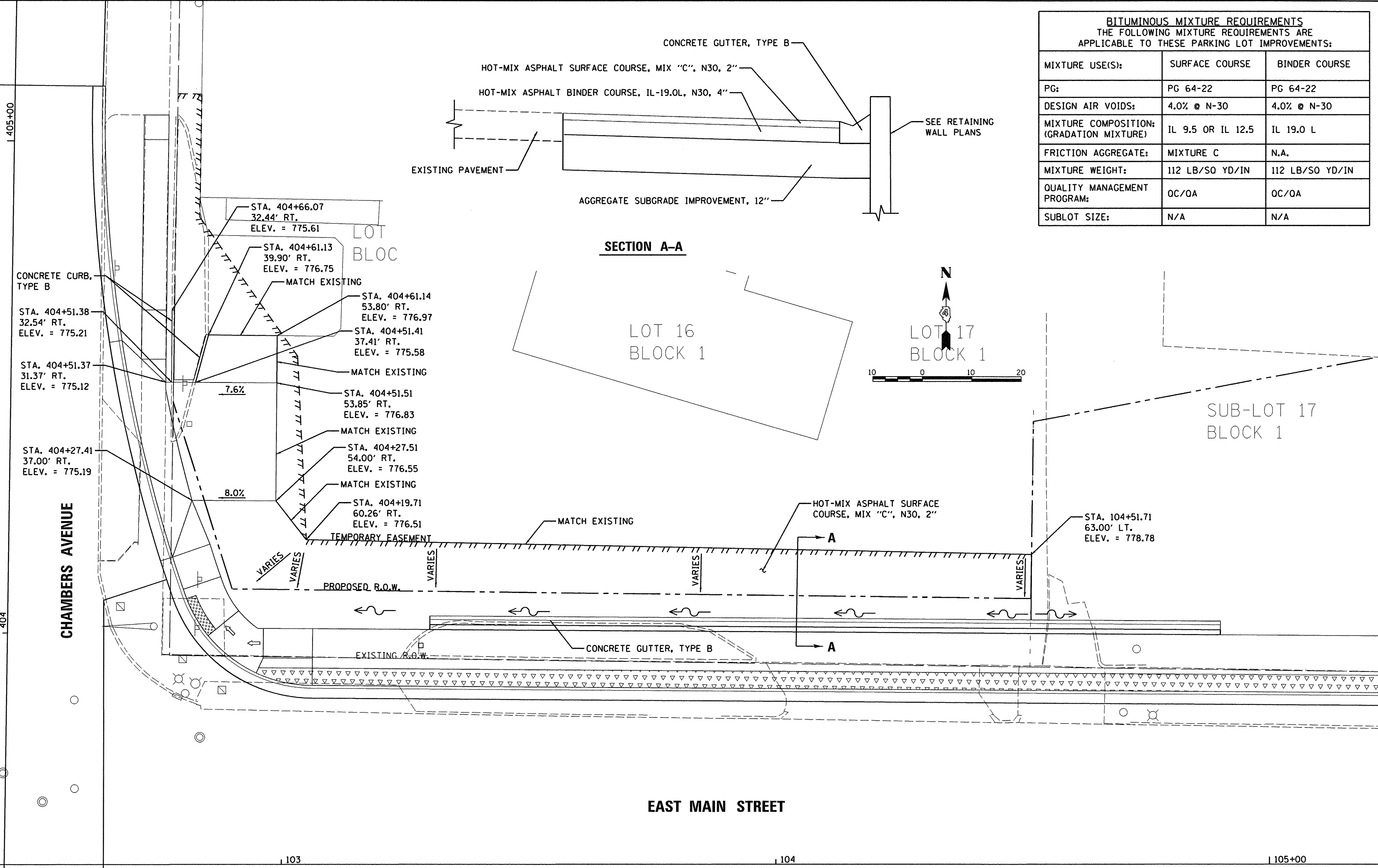
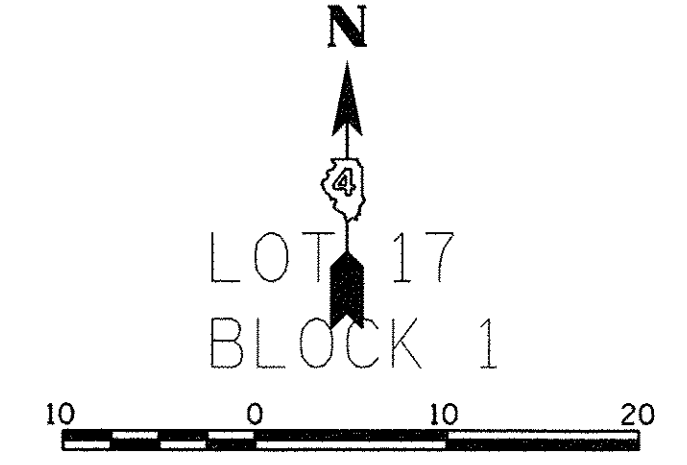
SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	176
	50VB		CONTRACT NO.89417	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BITUMINOUS MIXTURE REQUIREMENTS THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THESE PARKING LOT IMPROVEMENTS:		
MIXTURE USE(S):	SURFACE COURSE	BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N-30	4.0% @ N-30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR IL 12.5	IL 19.0 L
FRICITION AGGREGATE:	MIXTURE C	N.A.
MIXTURE WEIGHT:	112 LB/SO YD/IN	112 LB/SO YD/IN
QUALITY MANAGEMENT PROGRAM:	OC/OA	OC/OA
SUBLOT SIZE:	N/A	N/A



SECTION A-A



- STA. 404+66.07
32.44' RT.
ELEV. = 775.61
- STA. 404+61.13
39.90' RT.
ELEV. = 776.75
- STA. 404+61.14
53.80' RT.
ELEV. = 776.97
- STA. 404+51.41
37.41' RT.
ELEV. = 775.58
- STA. 404+51.51
53.85' RT.
ELEV. = 776.83
- STA. 404+27.51
54.00' RT.
ELEV. = 776.55
- STA. 404+19.71
60.26' RT.
ELEV. = 776.51
- STA. 404+51.38
32.54' RT.
ELEV. = 775.21
- STA. 404+51.37
31.37' RT.
ELEV. = 775.12
- STA. 404+27.41
37.00' RT.
ELEV. = 775.19
- STA. 104+51.71
63.00' LT.
ELEV. = 778.78

PRELIMINARY
NOT FOR CONSTRUCTION

LAYOUT	RLA	2/11/14
DRAWN	MGD	5/27/15
REVIEWED	MPB	5/28/15

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PLOT DATE = 9/8/2015		DATE - 9/9/2015	REVISED -

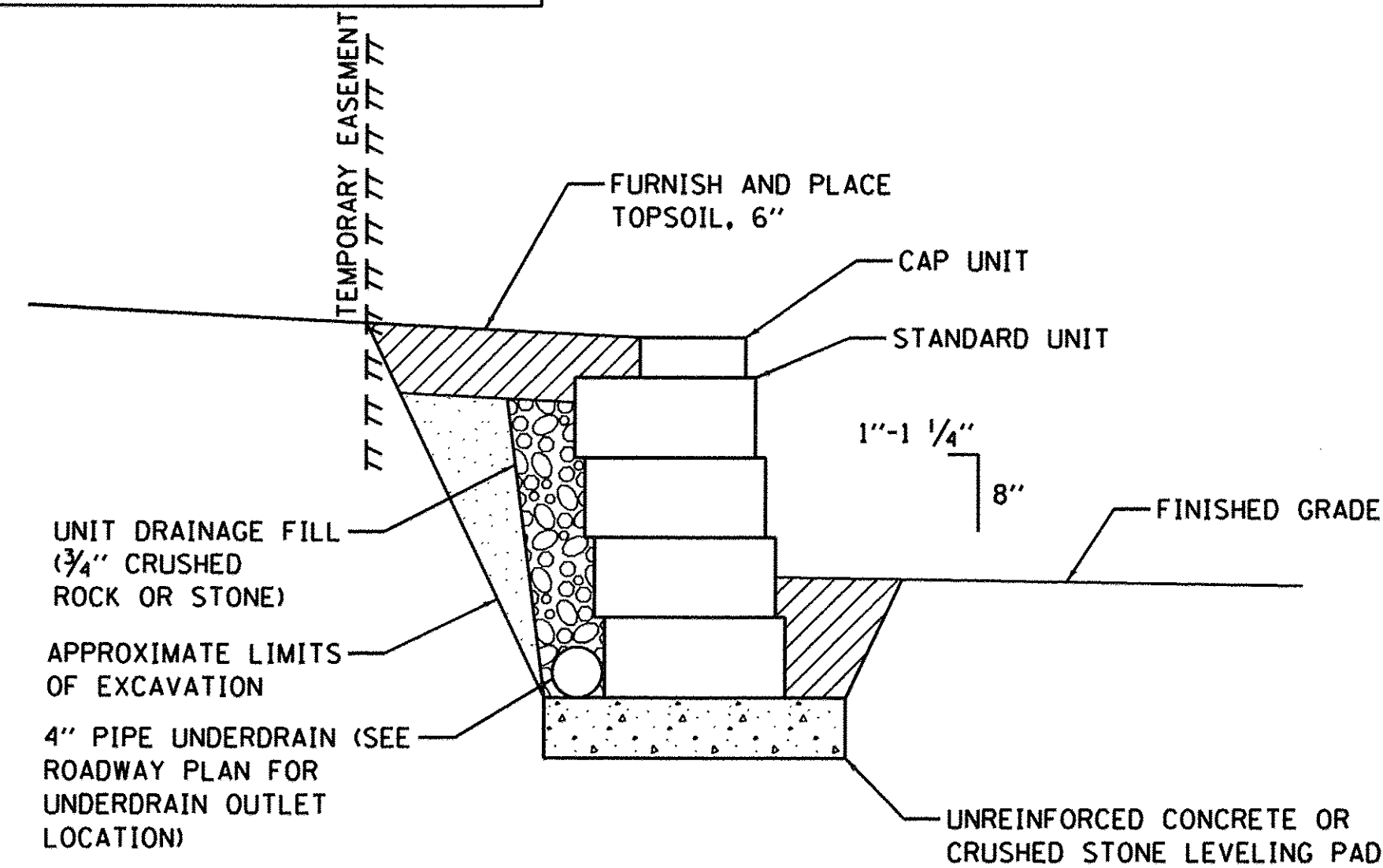
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SITE LAYOUT AND GRADING DETAILS
515 EAST MAIN STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	177
	50VB		CONTRACT NO. 89417	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.

PRELIMINARY
NOT FOR CONSTRUCTION



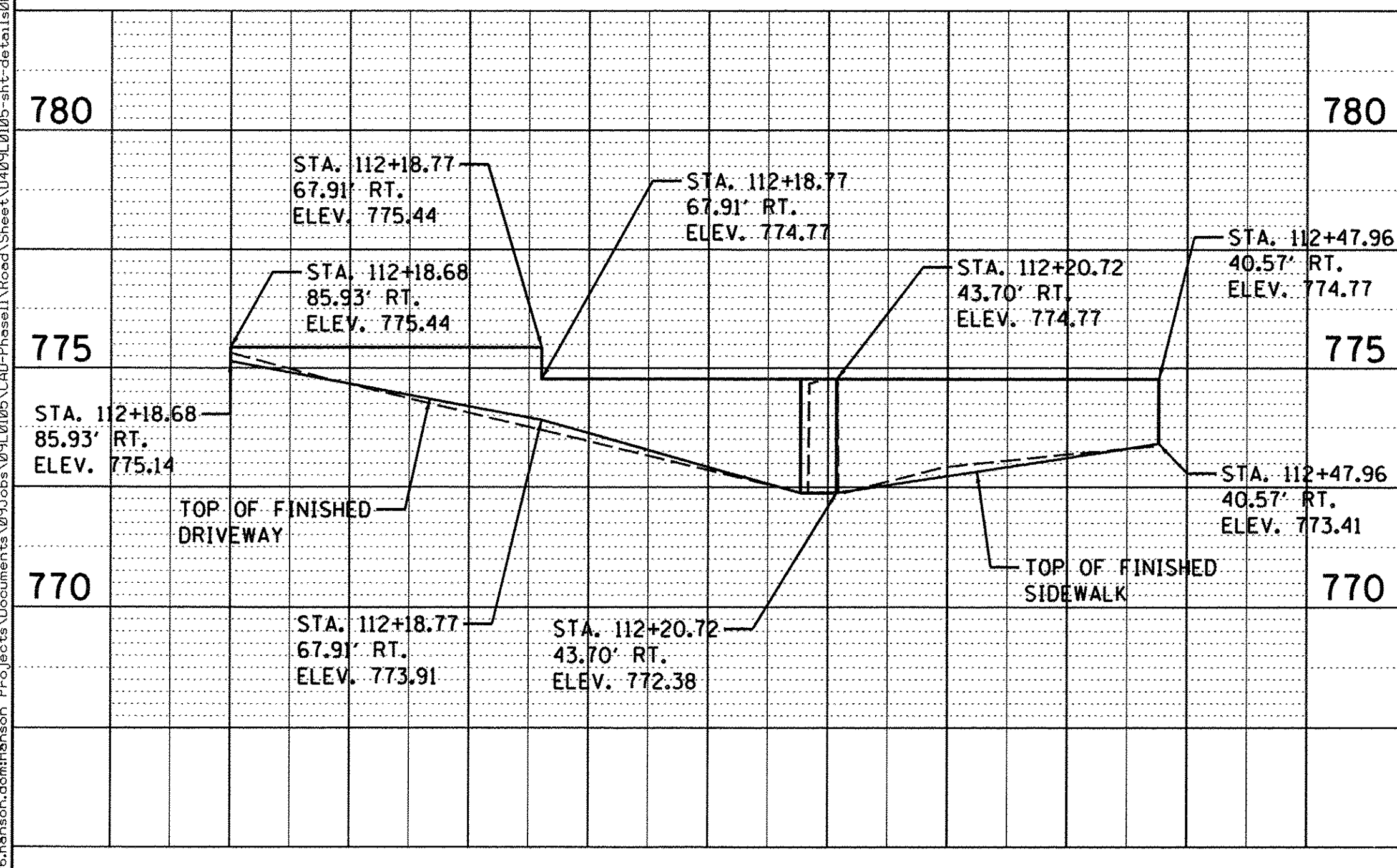
SECTION A-A
SEGMENTAL CONCRETE
BLOCK WALL DETAIL

(SEE IDOT DIST 4
STANDARD DETAIL 660101-D4)

BILL OF MATERIAL

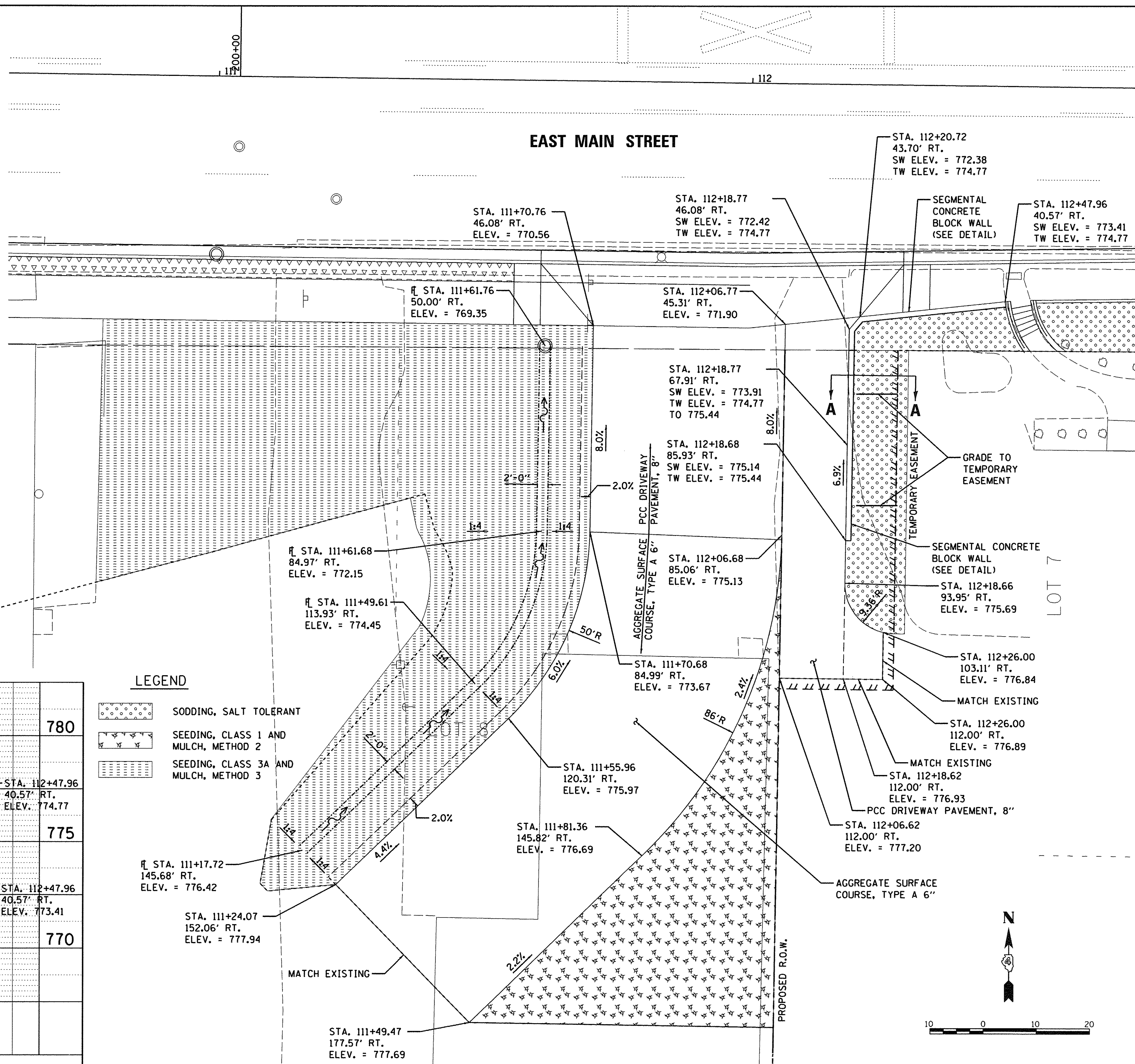
ITEM	UNIT	TOTAL
SEGMENTAL CONCRETE BLOCK WALL	SO. FT.	110
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	128

SEGMENTAL CONCRETE BLOCK WALL PROFILE



LEGEND

- SODDING, SALT TOLERANT
- SEEDING, CLASS 1 AND MULCH, METHOD 2
- SEEDING, CLASS 3A AND MULCH, METHOD 3



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SITE LAYOUT, GRADING, AND WALL DETAILS
712 AND 748 EAST MAIN STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	178
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.

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LAYOUT	RLA	2/11/14
DRAWN	MGD	5/27/15
REVIEWED	MPB	5/28/15

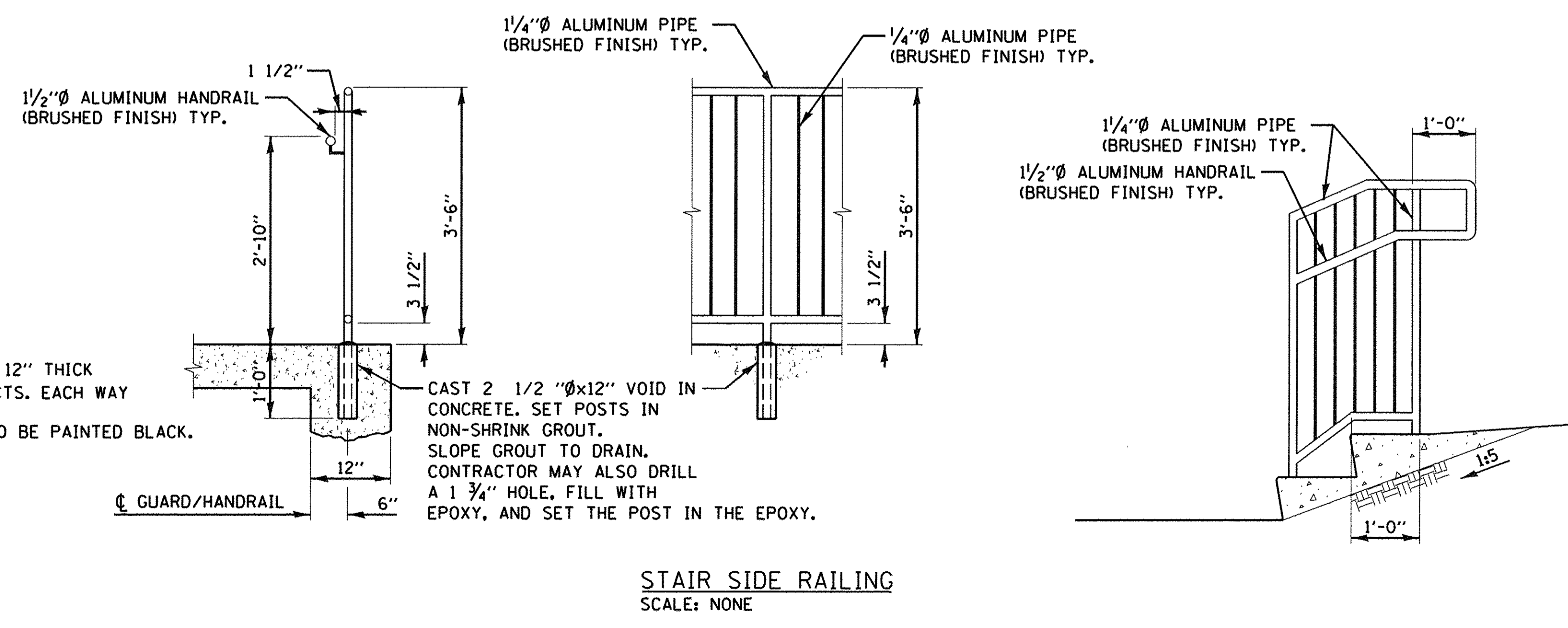
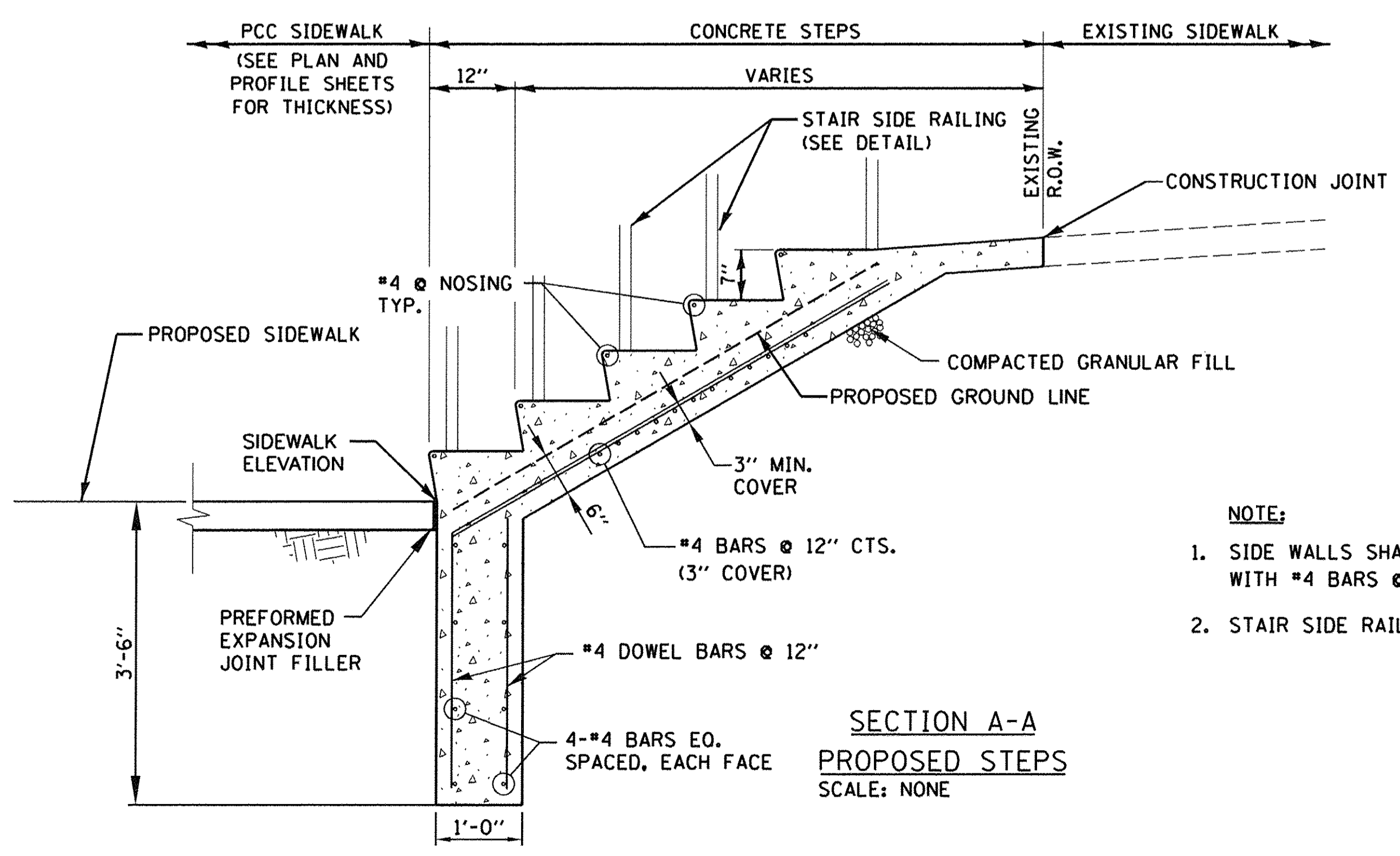
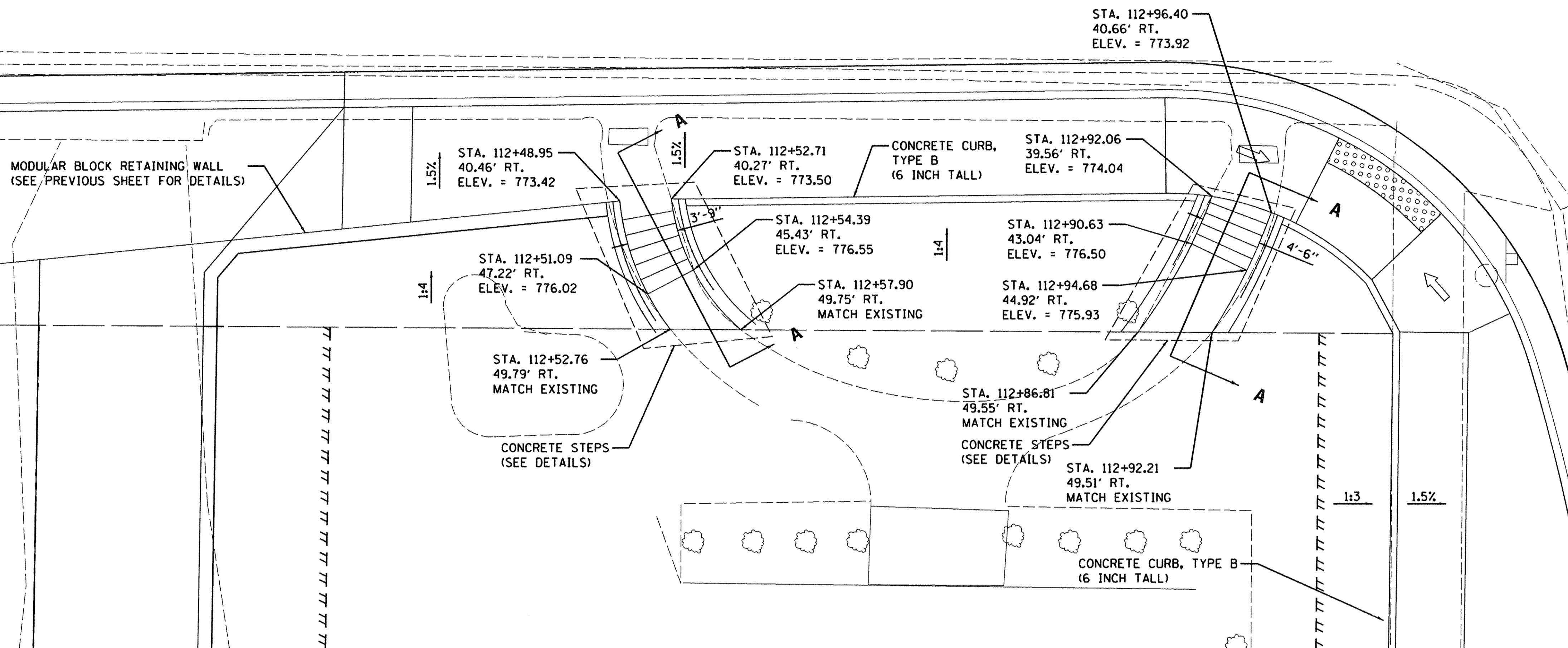
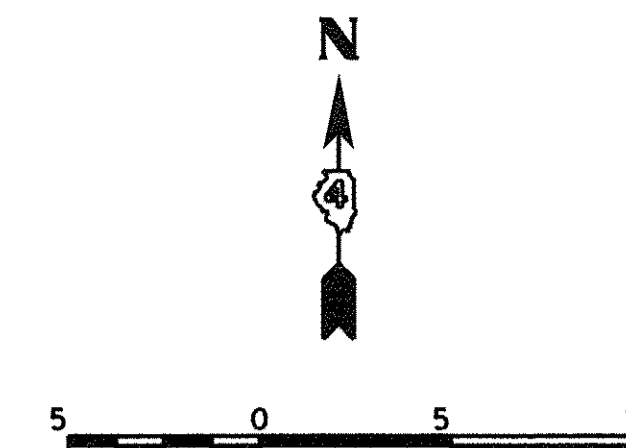
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 DRAWN - MGD
 CHECKED - MPB
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PROJECT NAME =
 PROJECT NO. =
 PLOT SCALE = 10,0000' / 1 in.
 DATE = 9/9/2015

DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

EAST MAIN STREET



- NOTE:**
- SIDE WALLS SHALL BE 12" THICK WITH #4 BARS @ 12" CTS. EACH WAY
 - STAIR SIDE RAILING TO BE PAINTED BLACK.

CAST 2 1/2" Øx12" VOID IN CONCRETE. SET POSTS IN NON-SHRINK GROUT. SLOPE GROUT TO DRAIN. CONTRACTOR MAY ALSO DRILL A 1 3/4" HOLE, FILL WITH EPOXY, AND SET THE POST IN THE EPOXY.

LAYOUT	RLA	2/11/14
DRAWN	MCD	5/21/15
REVIEWED	MPB	5/28/15

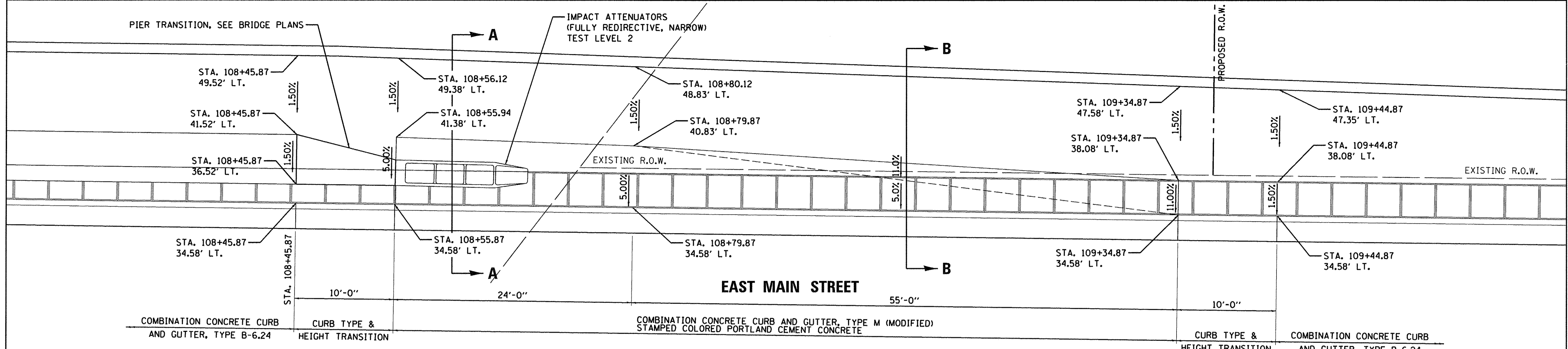
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		DATE - 9/9/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SITE LAYOUT, GRADING, AND STAIR DETAILS
748 EAST MAIN STREET

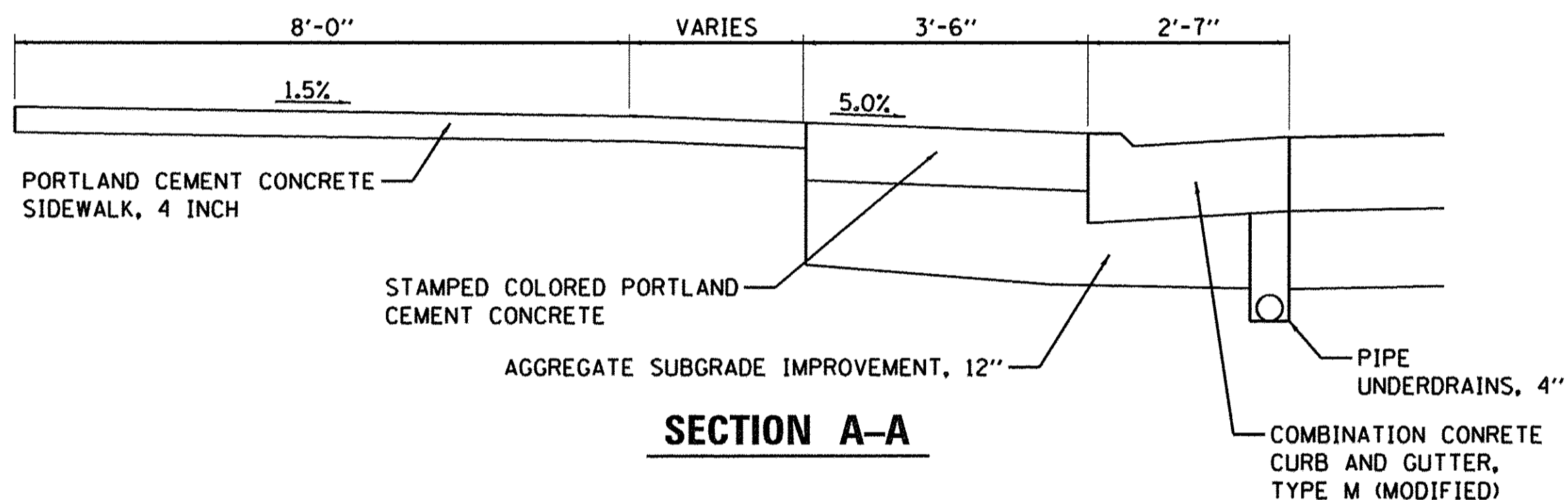
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	179
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.



WESTBOUND IMPACT ATTENUATOR LAYOUT

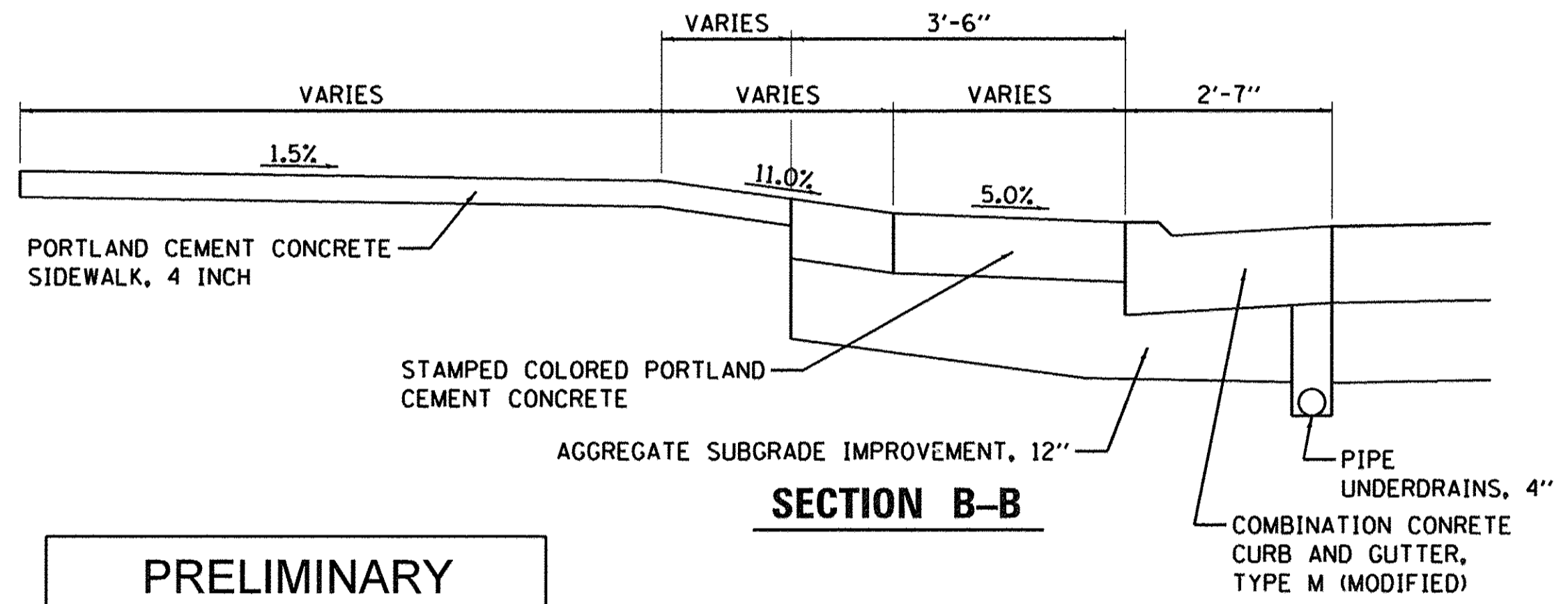
STA. 108+45.83 TO STA. 109+44.86



SECTION A-A

NOTES:

- SEE EAST MAIN STREET MISCELLANEOUS DETAILS SHEET FOR THE FOLLOWING DETAILS:
 - COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED)
 - PATTERN FOR STAMPED COLORED SIDEWALK AND PAVEMENT

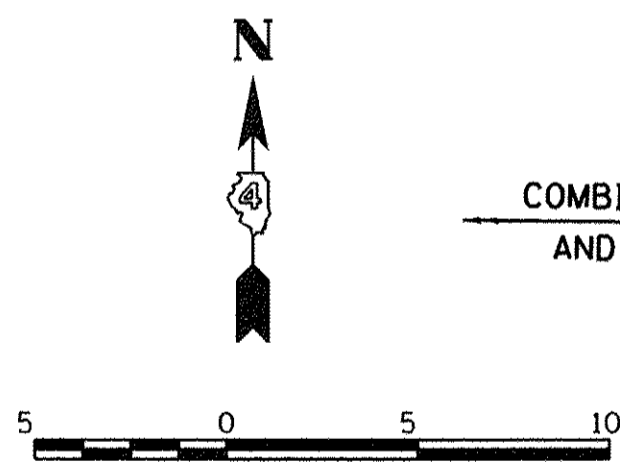
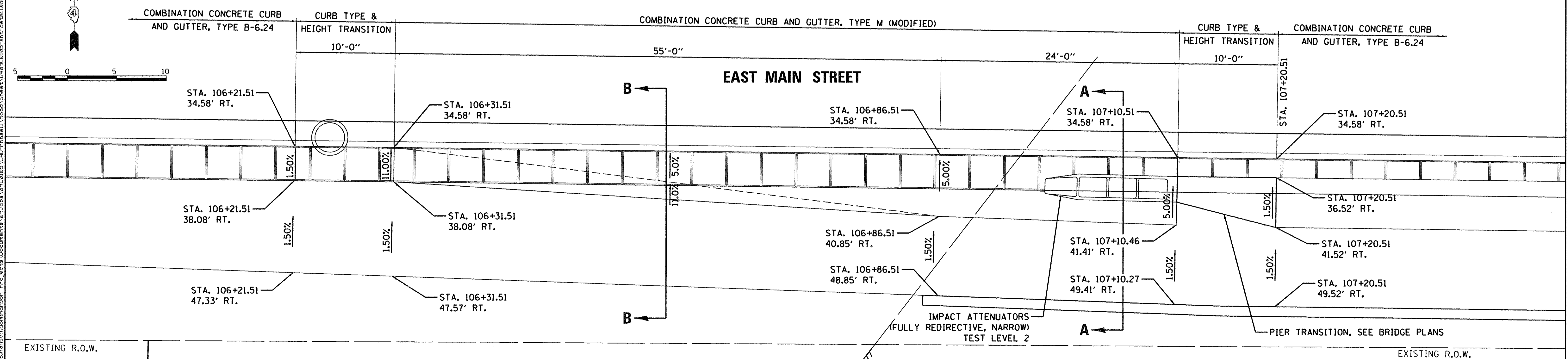


SECTION B-B

**PRELIMINARY
NOT FOR CONSTRUCTION**

EASTBOUND IMPACT ATTENUATOR LAYOUT

STA. 106+21.49 TO STA. 107+20.51



LAYOUT	RLA	2/11/14
DRAWN	MGD	5/27/15
REVIEWED	MPB	5/28/15

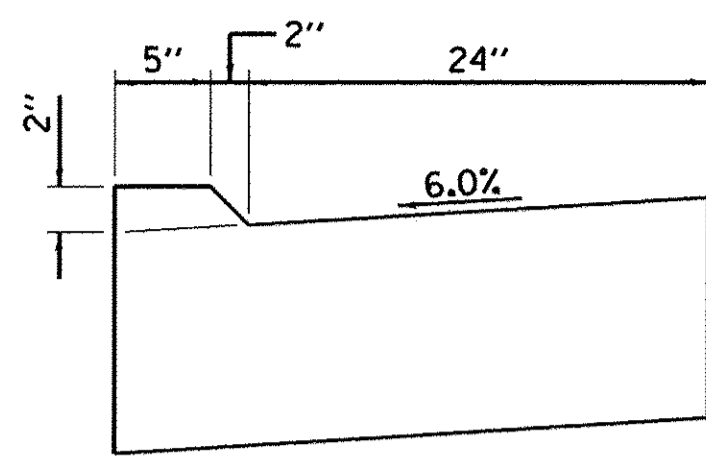
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	PLOT DATE = 9/8/2015	DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

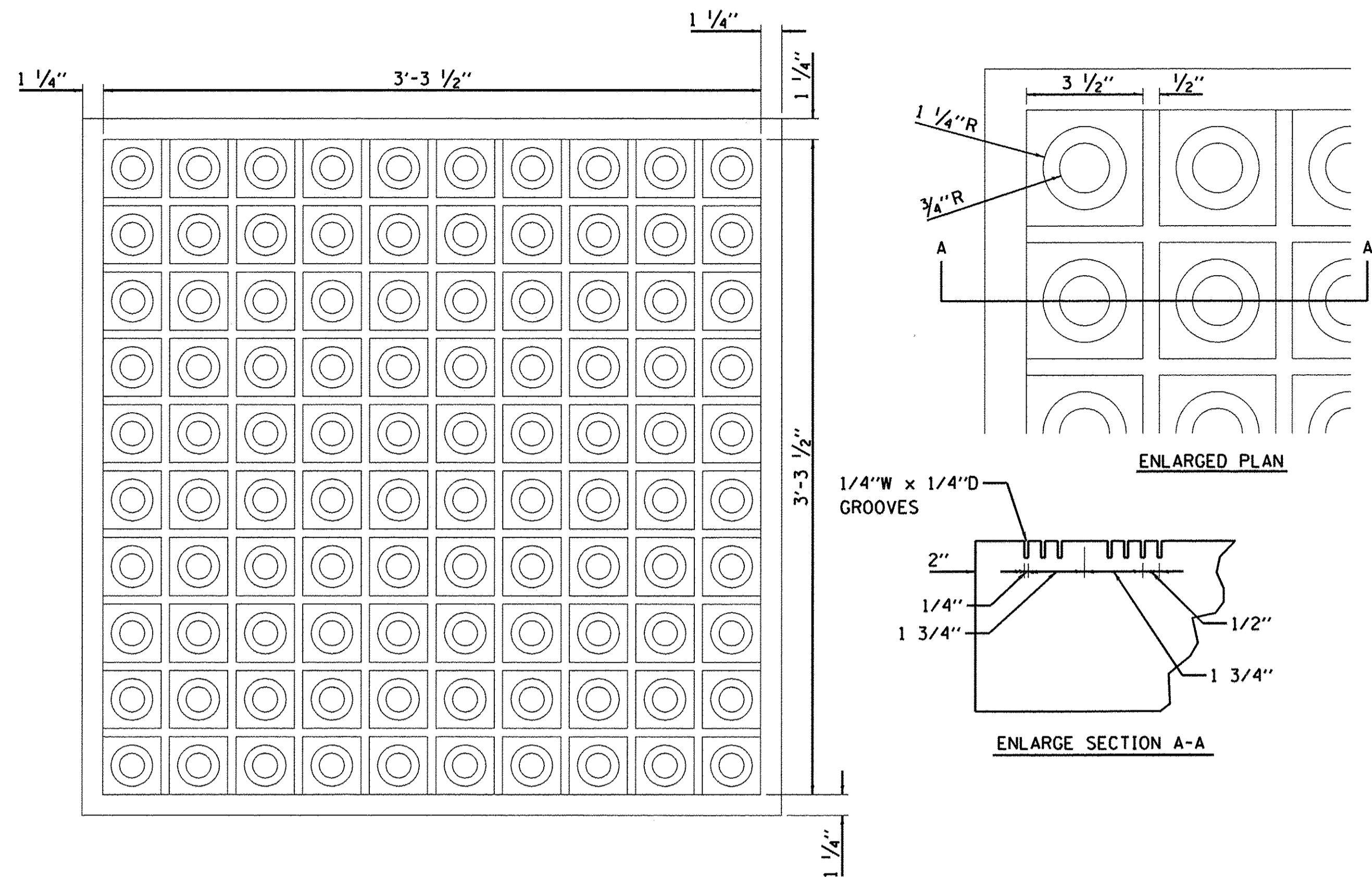
**EAST MAIN STREET
IMPACT ATTENUATOR LAYOUT**

SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	180
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



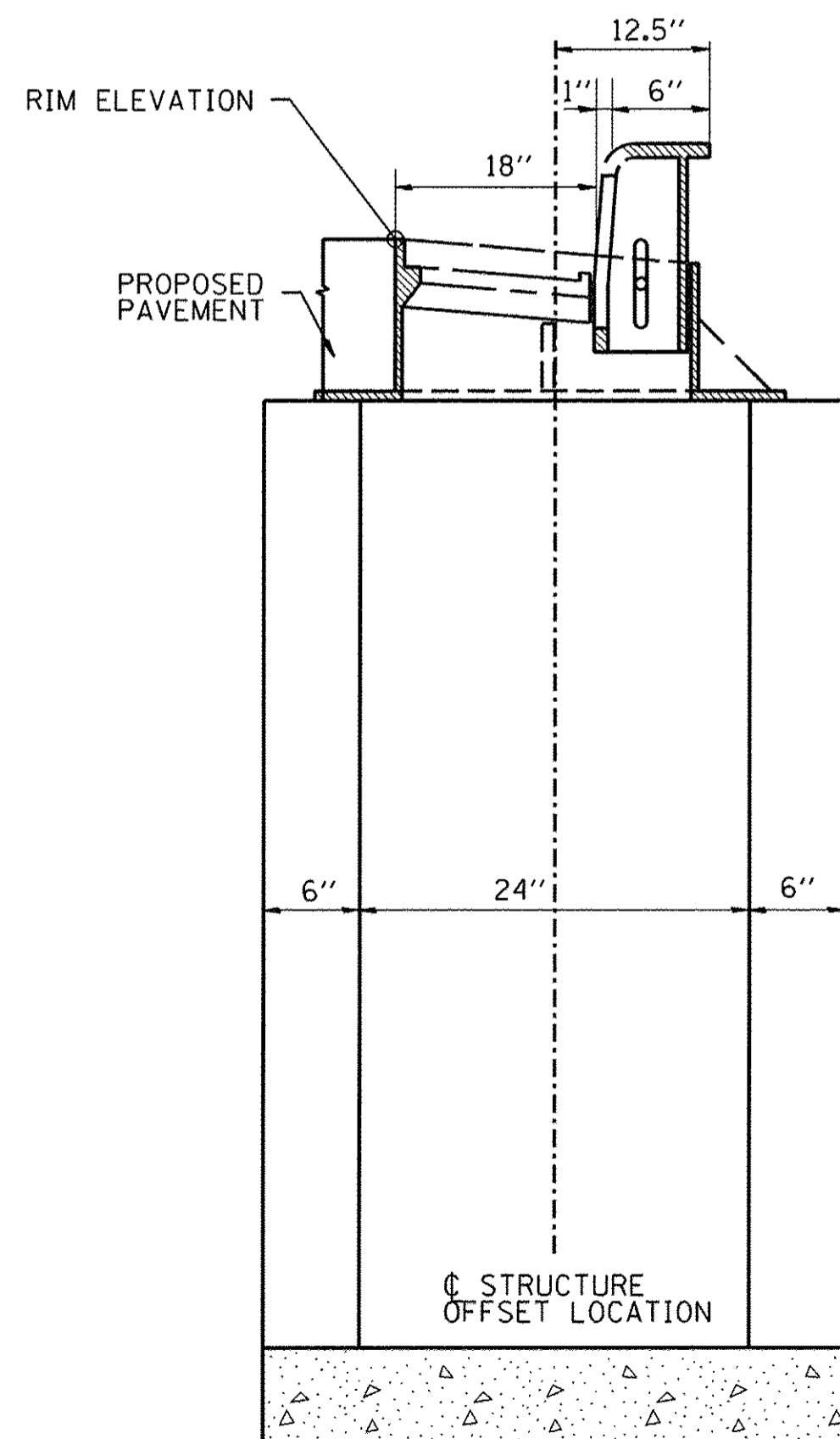
COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED)



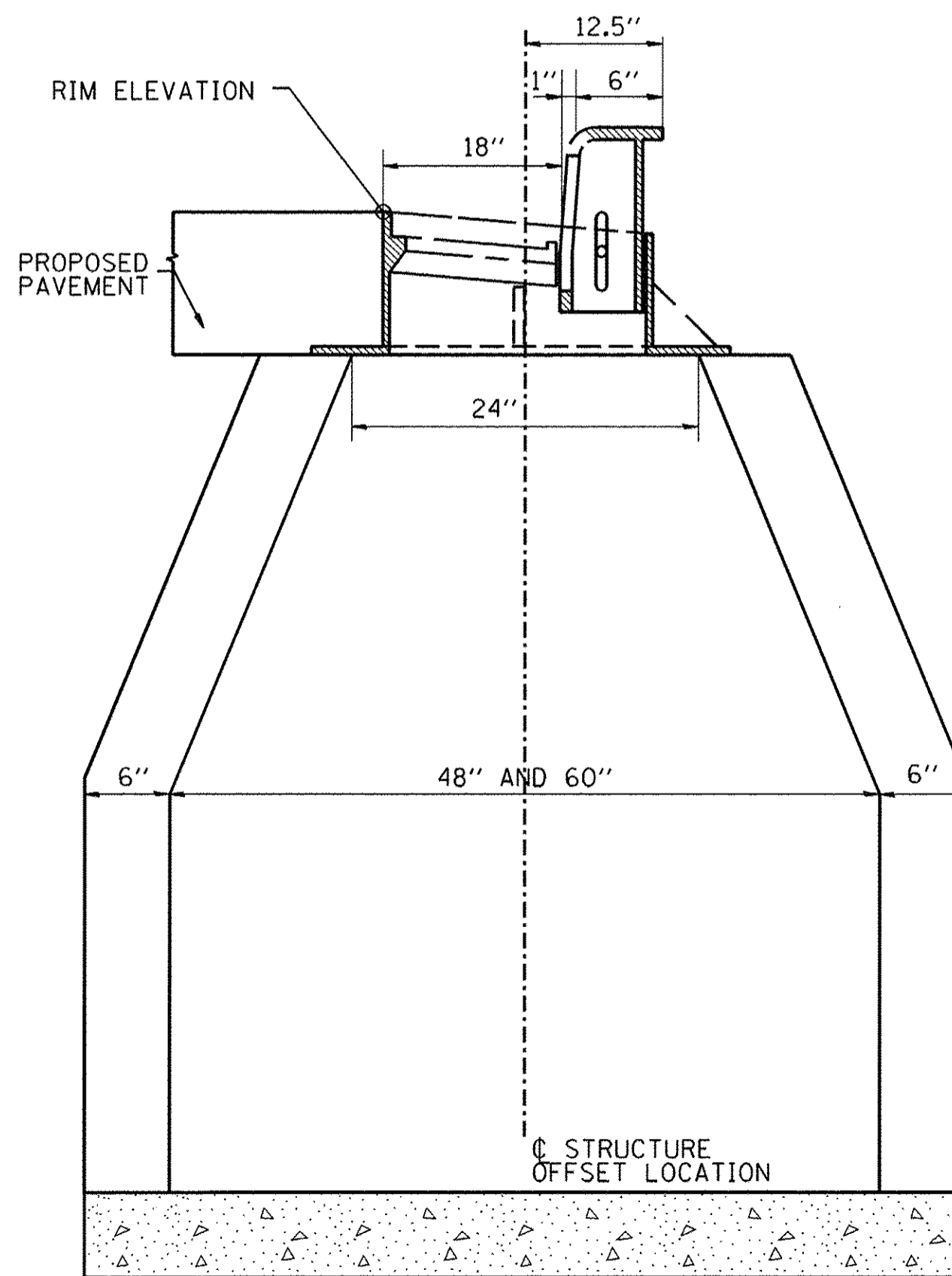
**STAMPED COLORED PCC SIDEWALK, 5 INCH
 STAMPED COLORED PORTLAND CEMENT CONCRETE**

NOTES:

- GROOVES TO BE FORMED USING LATEX MAT PRESSED INTO WET CONCRETE. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND SAMPLE INSTALLATION. SAMPLE TO BE NO SMALLER THAN TWO (2) ADJACENT 3.5 SQ. FT. SECTIONS (3.5' x 7' TOTAL AREA). LOCATION OF SAMPLE INSTALLATION TO BE DETERMINED BY RESIDENT ENGINEER. SAMPLE TO BE APPROVED BY RESIDENT ENGINEER.



INLET, TYPE A & B



MANHOLE, TYPE A

LAYOUT	RLA	2/11/14
DRAWN	MGD	5/27/15
REVIEWED	MPB	5/28/15

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USER NAME = nder-00846
 PLOT SCALE = 5.0000' / in.
 PLOT DATE = 9/8/2015

DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

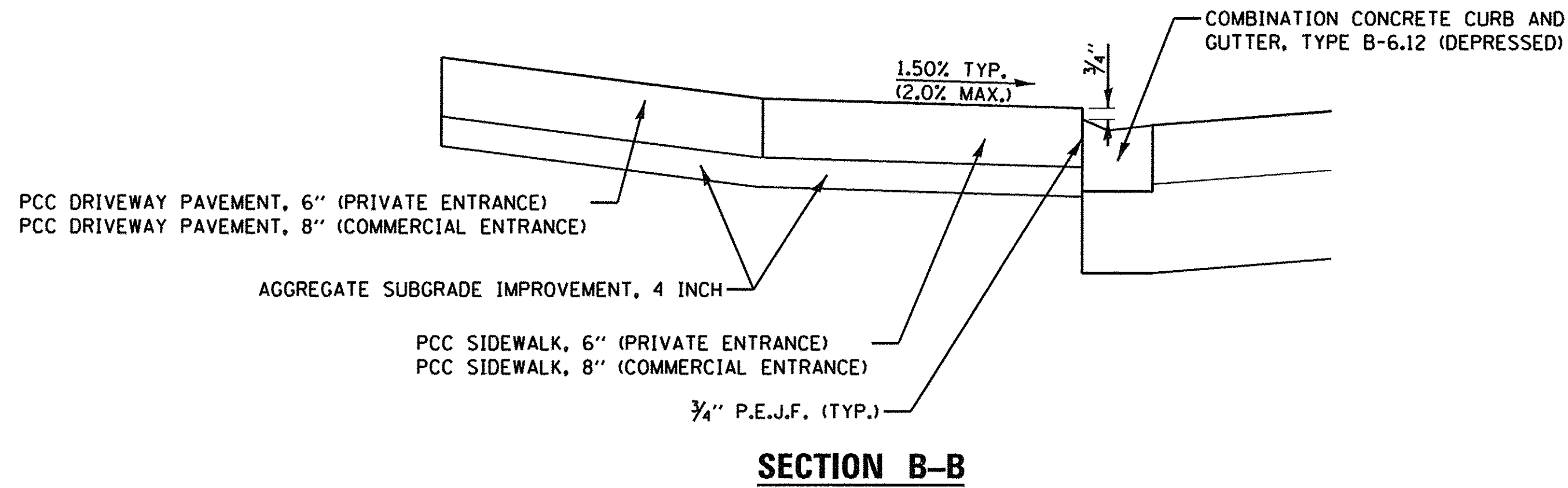
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
 MISCELLANEOUS DETAILS**

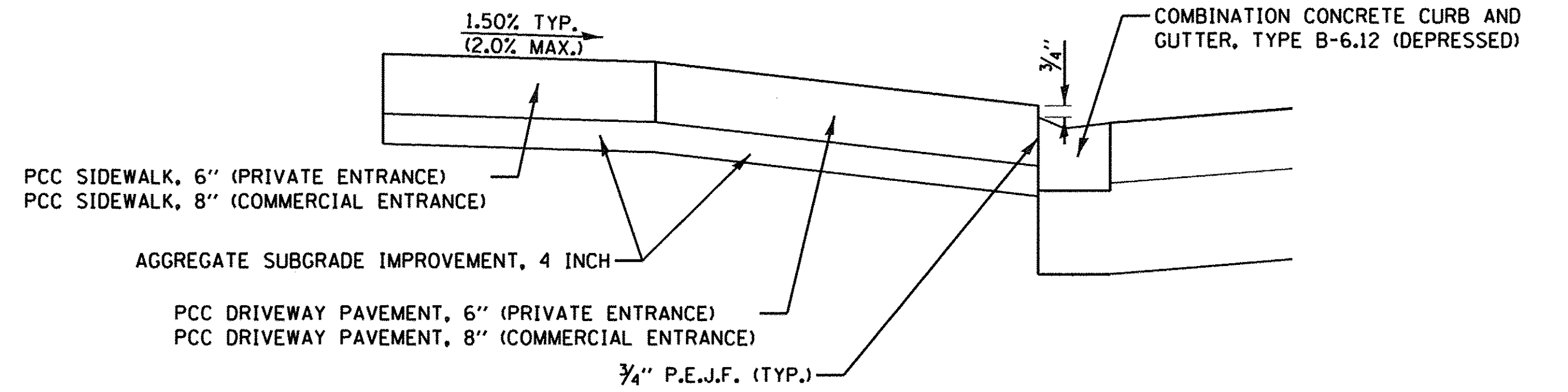
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50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

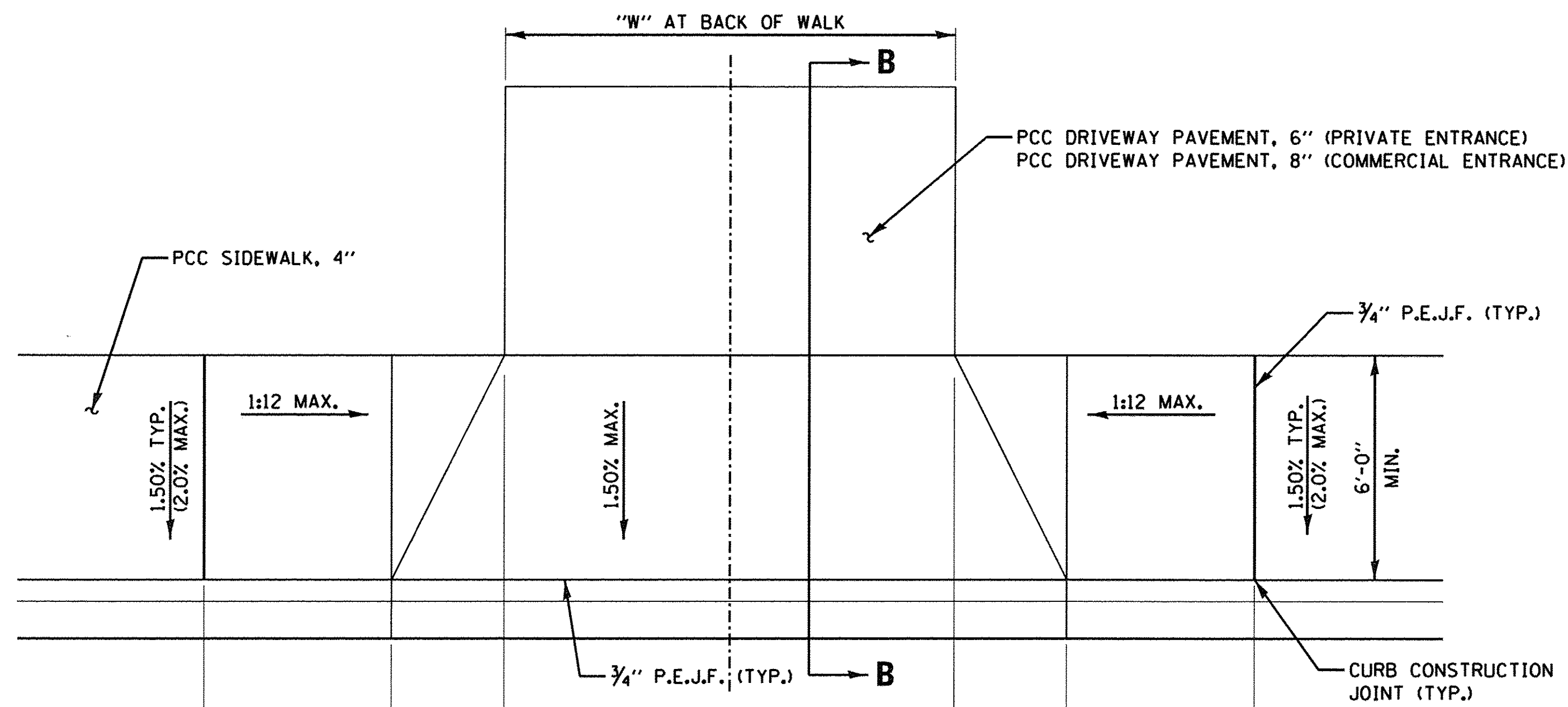
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 NOT FOR CONSTRUCTION**



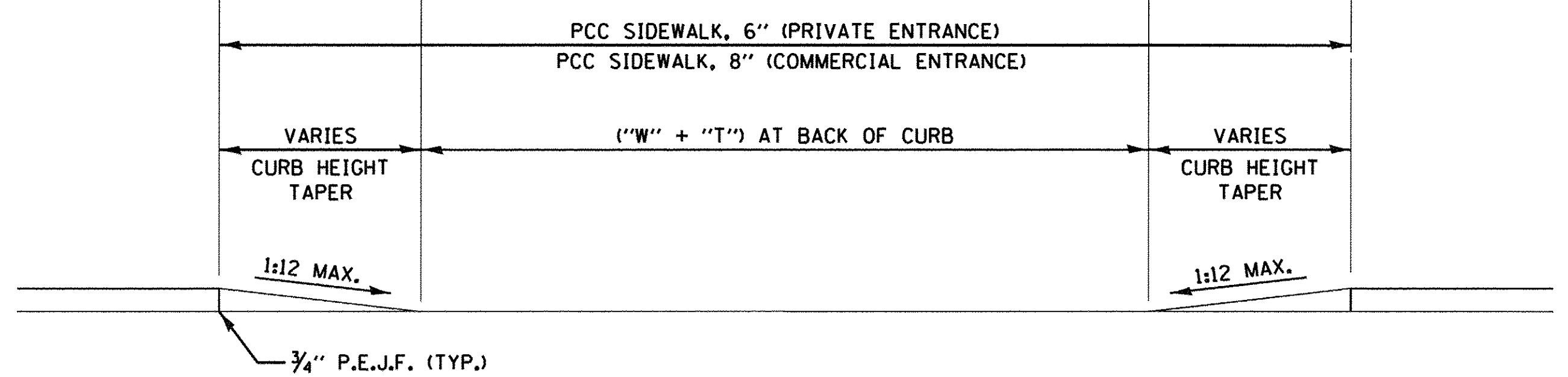
SECTION B-B



SECTION A-A

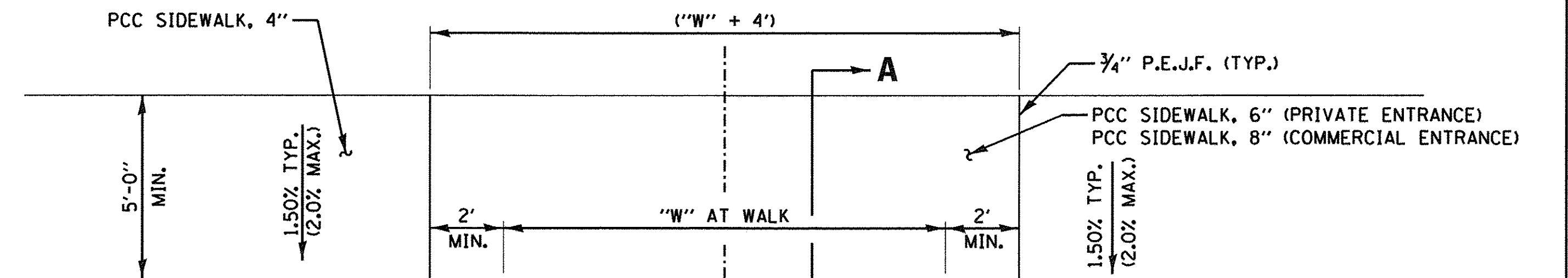


PLAN VIEW

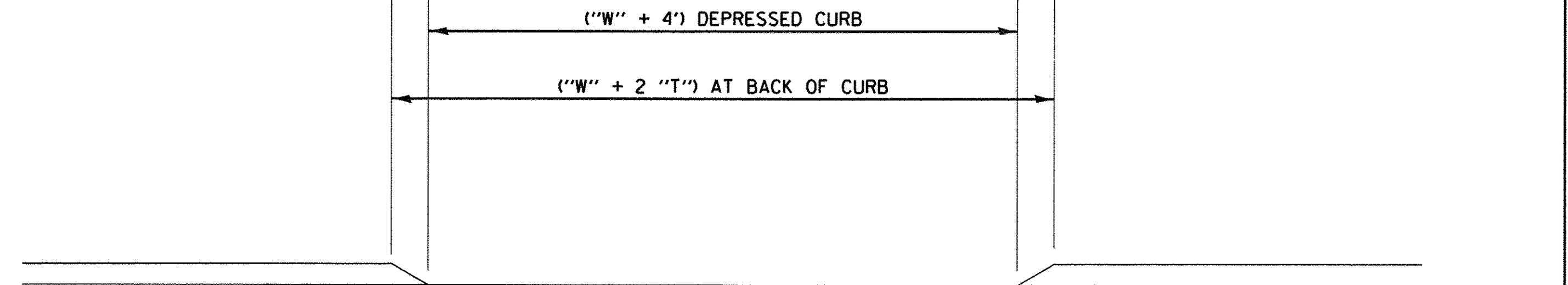


PROFILE VIEW

ENTRANCE WITH CURBLINE SIDEWALK



PLAN VIEW



PROFILE VIEW

ENTRANCE WITH SEPARATED SIDEWALK

ENTRANCE WIDTH AND TAPER VALUES			
	ENTRANCE WIDTH	ENTRANCE TAPER	ENTRANCE/SIDEWALK THICKNESS
	"W"	"T"	
PRIVATE ENTRANCE	12'	3'	6"
COMMERCIAL ENTRANCE	24'	10'	8"

ENTRANCE TYPICAL DETAILS

FILE NAME =	USER NAME = andr-00846	DESIGNED - RLA	REVISED -
c:\pwise_work\do_not_delete\0273754\049\0105-sht-details003.dgn		DRAWN - MGD	REVISED -
PLOT SCALE = 5.0000' / 1"		CHECKED - MPB	REVISED -
PLOT DATE = 9/8/2015		DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

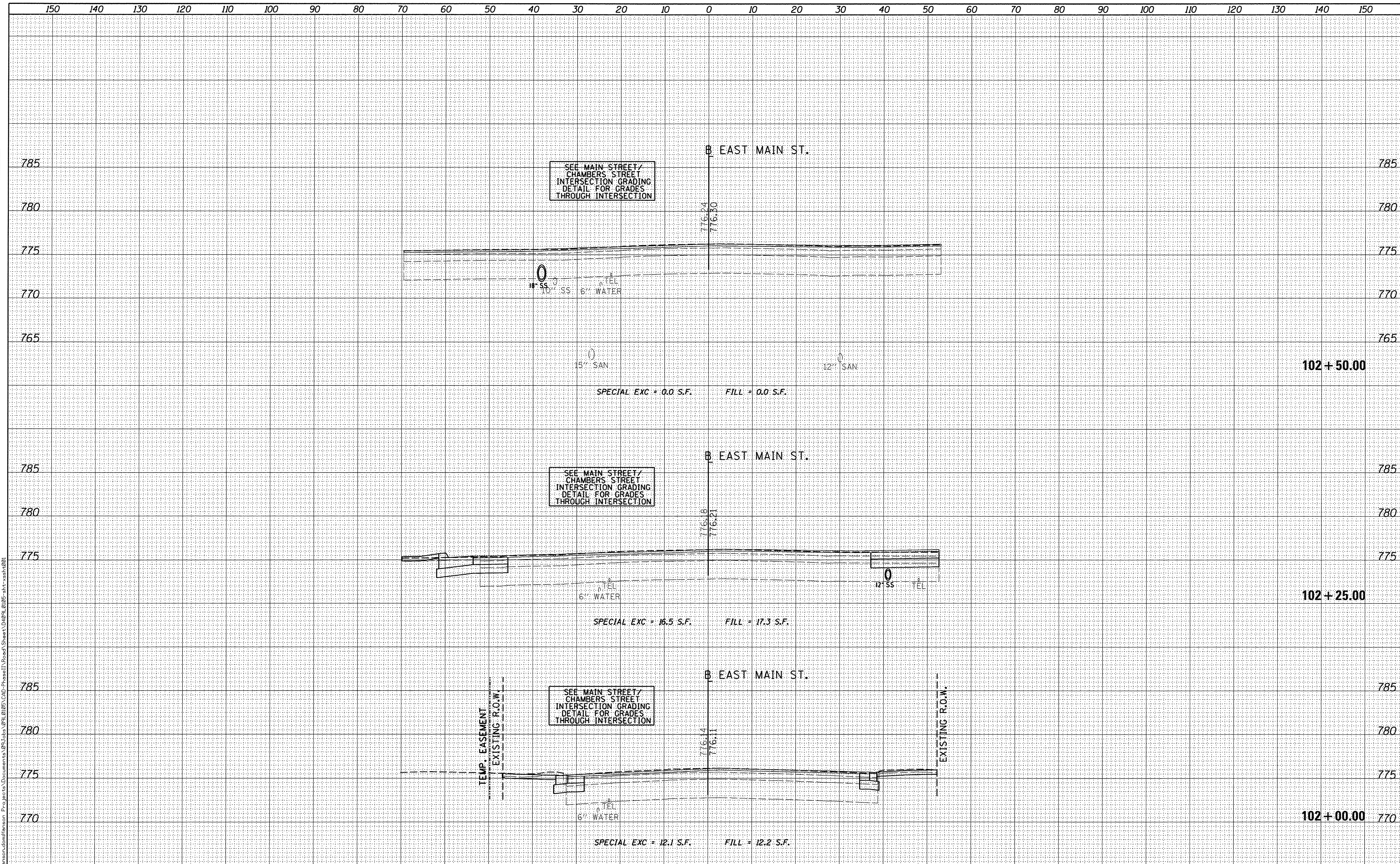
EAST MAIN STREET DRIVEWAY TYPICAL DETAIL			
SCALE: N/A	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	182
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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



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



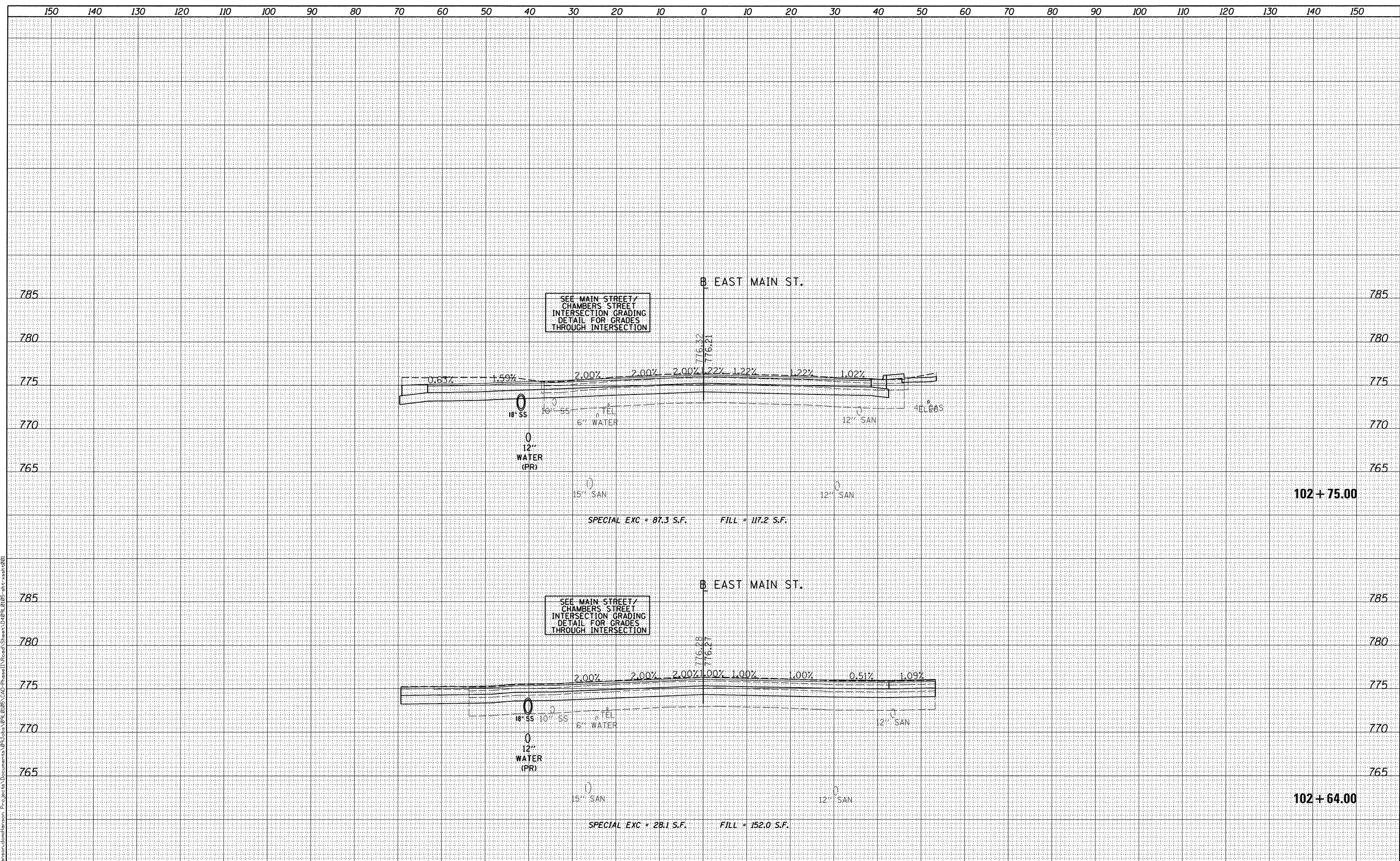
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PLOT DATE = 9/9/2015	DATE - 9/9/2015	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 1"=10' SHEET OF SHEETS STA. 102+00.00 TO STA.

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

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

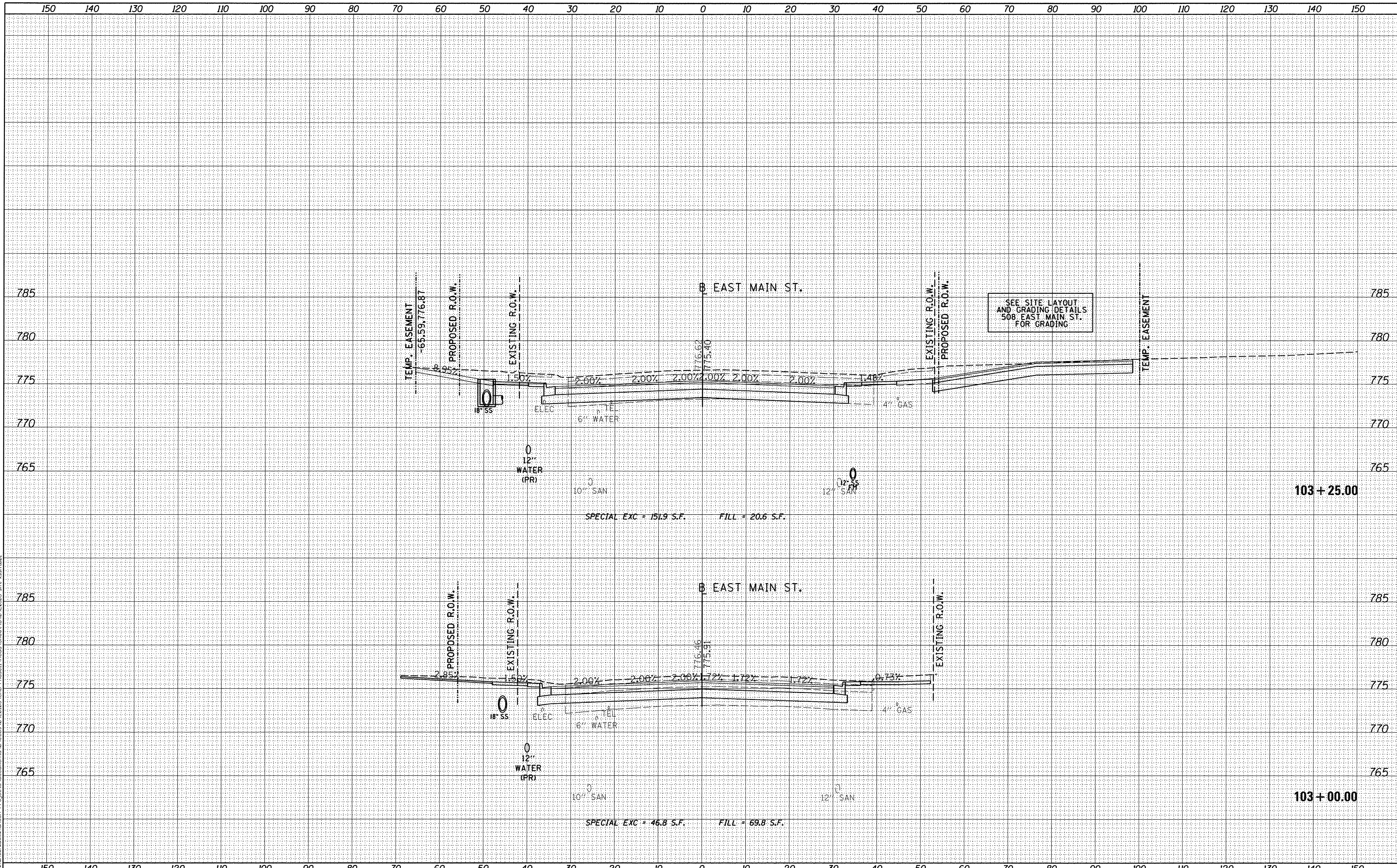


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DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



SEE SITE LAYOUT AND GRADING DETAILS 508 EAST MAIN ST. FOR GRADING

FILE NAME -
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USER NAME = andr-02846	DESIGNED - RLA	REVISED -
sh-t-xssht001.dgn	DRAWN - MGD	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - MPB	REVISED -
PLOT DATE = 9/8/2015	DATE - 9/9/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET
CROSS SECTIONS

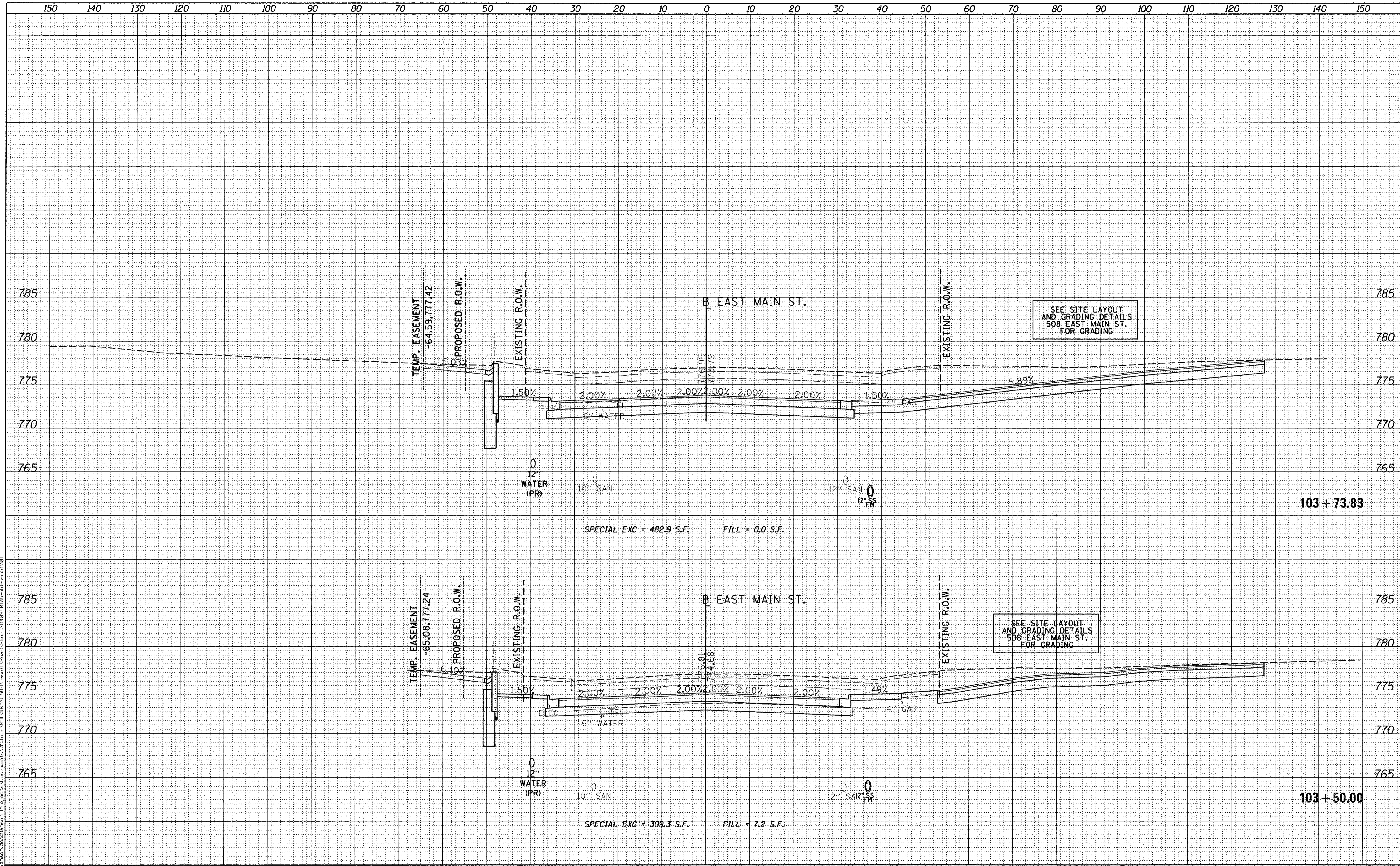
SCALE: 1"=10'
 SHEET OF SHEETS STA. TO STA. 103+25.00

F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 186
50VB			CONTRACT NO. 89417	
ILLINOIS FED. AID PROJECT				

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



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



FILE NAME =
 c:\pwise_work\do_not_delete\0273754\0409L0105

USER NAME = andr00846
 sht-xsht001.dgn
 PLOT SCALE = 1/8"=1'-0"
 PLOT DATE = 9/8/2015

DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

REVISED -
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
 CROSS SECTIONS**

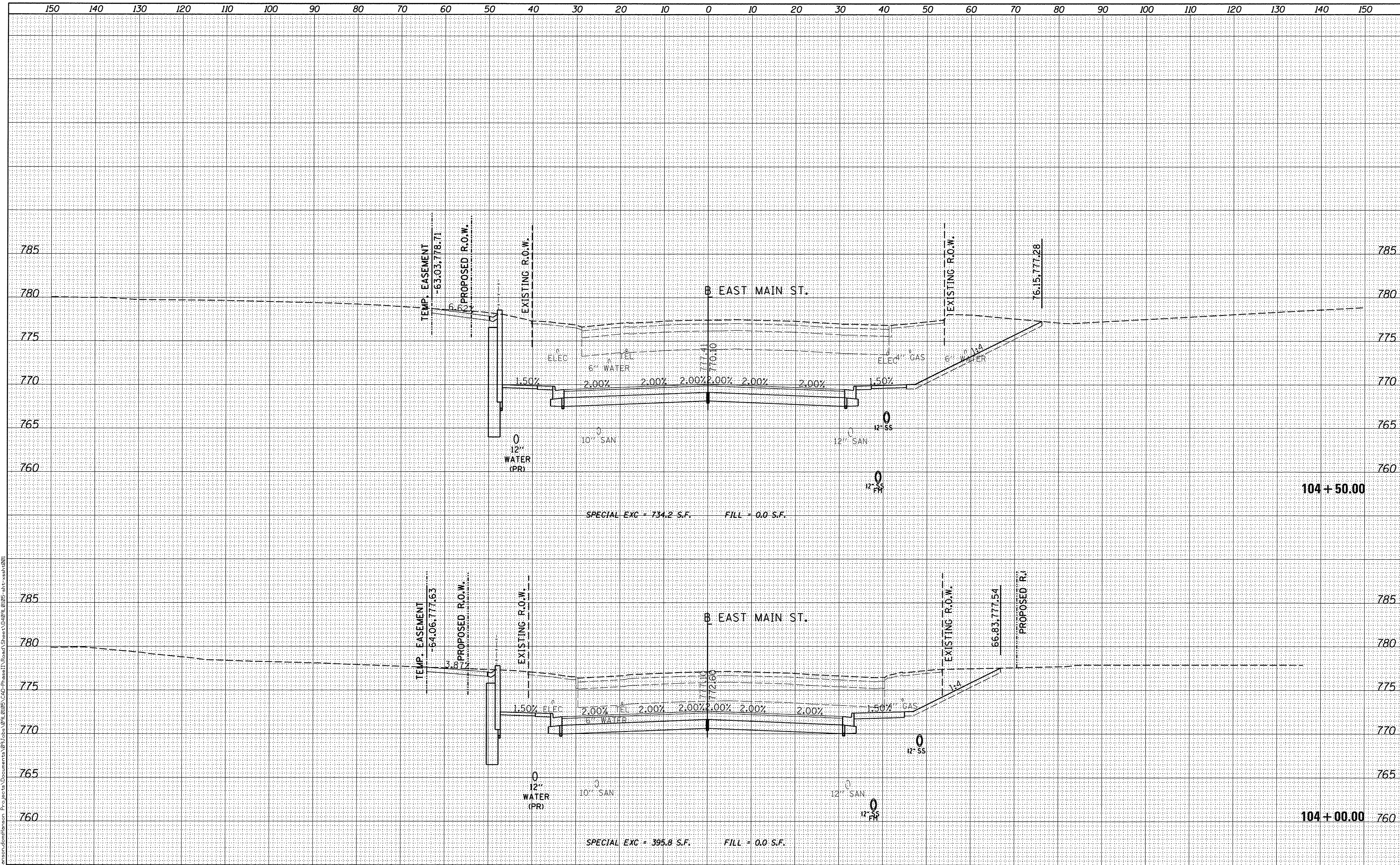
SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	187
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

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



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

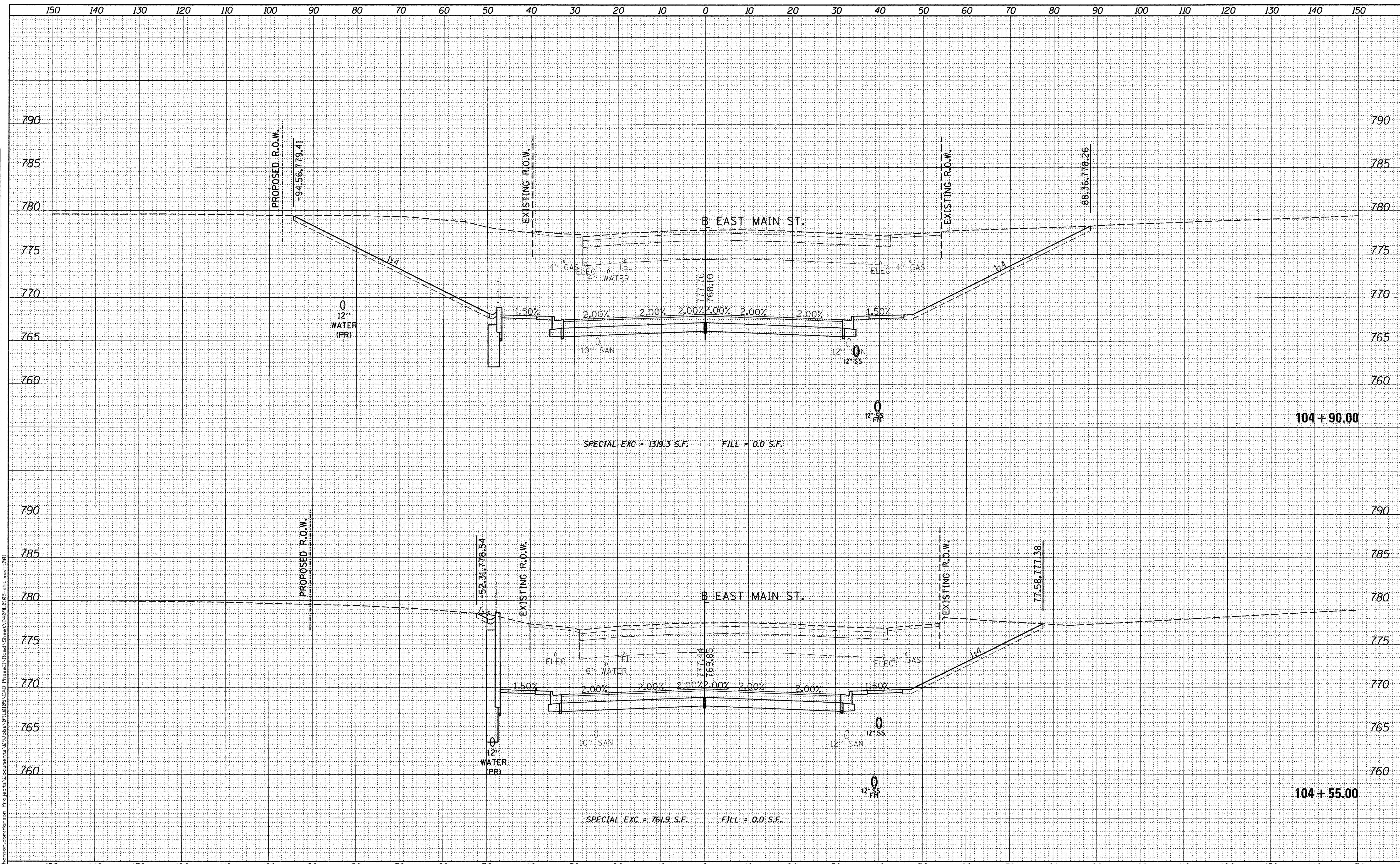


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PROJECT WORK	sh-t-xsh-t001.dgn	DRAWN - MGD	REVISED -			6800	05-00500-19-GS	KNOX	221	188
PLOT SCALE = 1/8"=1'-0"		CHECKED - MPB	REVISED -			50VB		CONTRACT NO.89417		
PLOT DATE = 9/8/2015		DATE - 9/9/2015	REVISED -			SCALE: 1"=10'		SHEET OF SHEETS		STA. 104+00.00 TO STA.

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



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

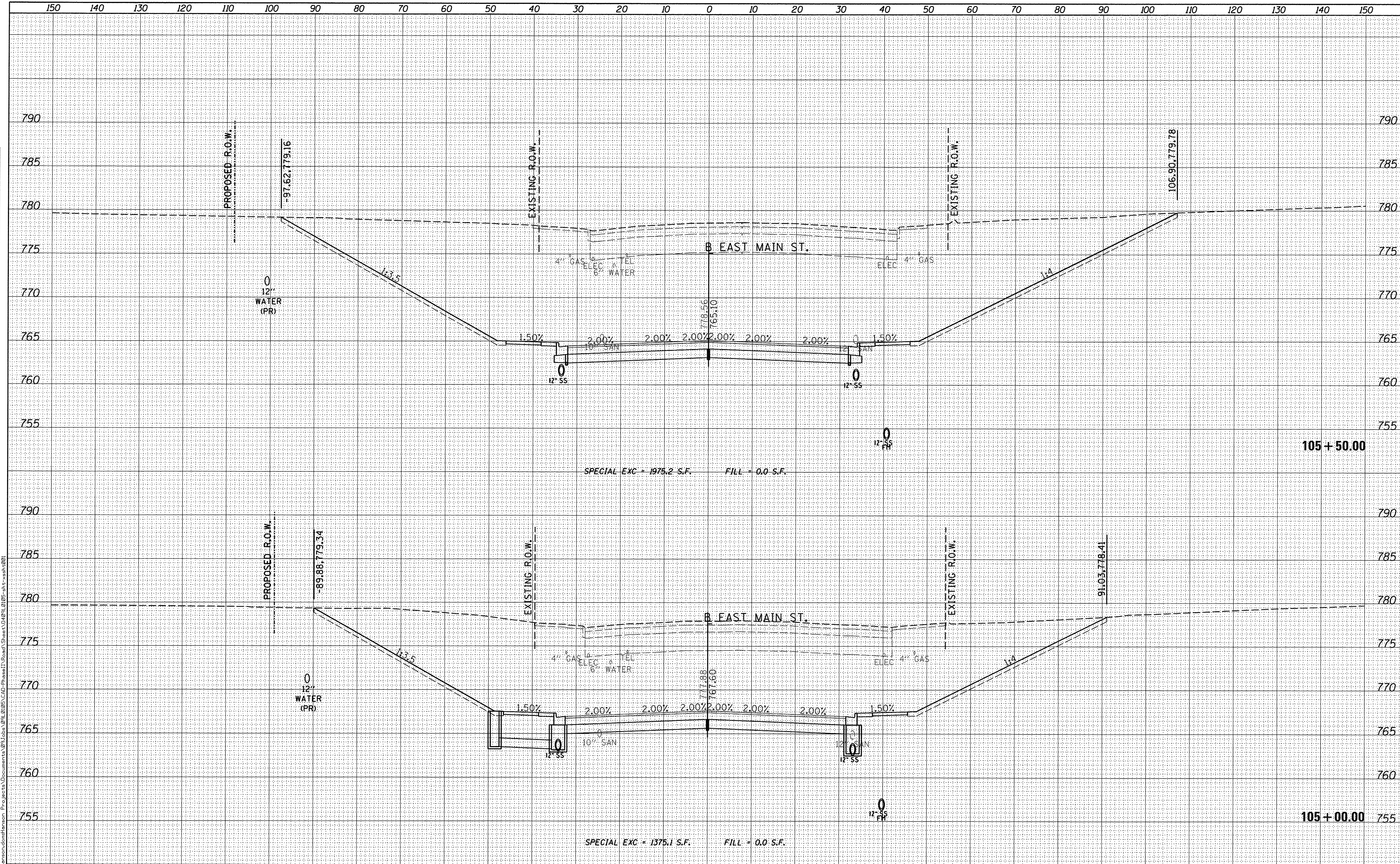


FILE NAME =	USER NAME = andr00846	DESIGNED - RLA	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST MAIN STREET CROSS SECTIONS	F.A.U. RTE. 6800	SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 221	SHEET NO. 189		
CONTRACT NO. 89417	SCALE: 1"=10'	SHEET	OF SHEETS			STA.	TO STA.	ILLINOIS FED. AID PROJECT				
DESIGNED - RLA	DRAWN - MGD	CHECKED - MPB	REVISIONS -									
DATE - 9/9/2015												

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



DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME =
 USER NAME = andr00846
 DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
 CROSS SECTIONS**

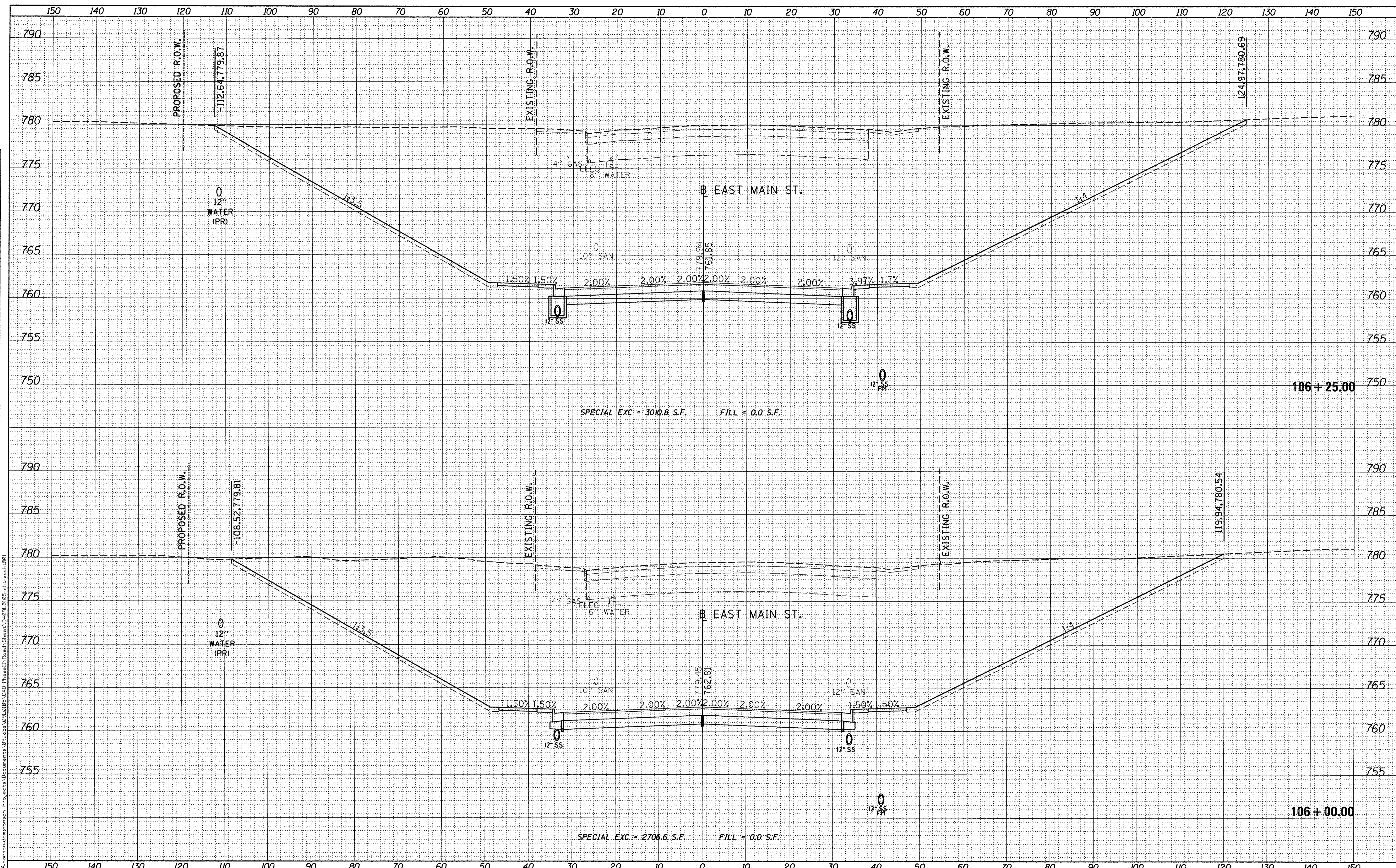
SCALE: 1"=10'
 SHEET OF SHEETS STA. 105+00.00 TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	190
50VB			CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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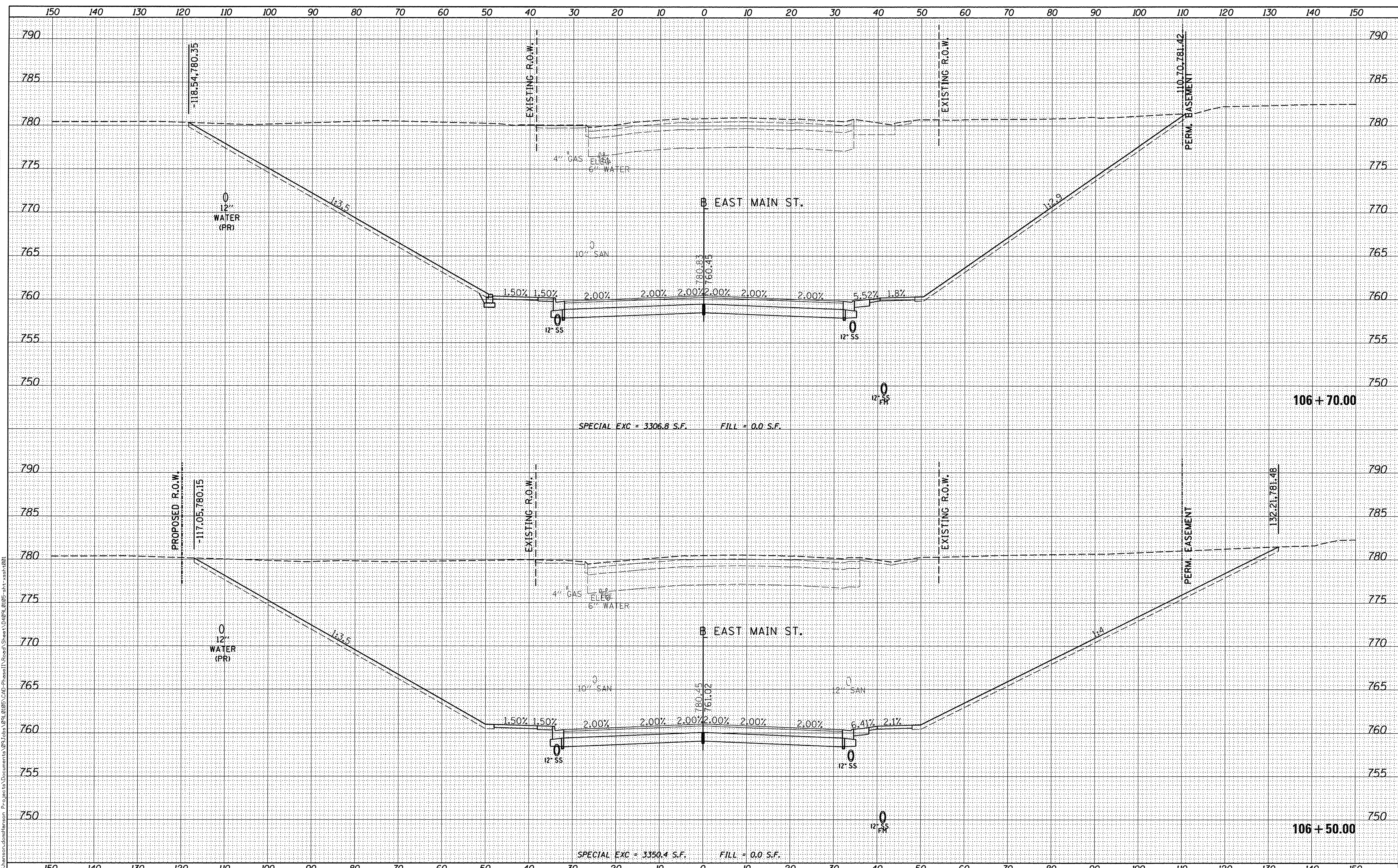


FILE NAME =	USER NAME = andr00046	DESIGNED - RLA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST MAIN STREET CROSS SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwise_work\do_not_delete\d0273754\14049L0105	shht-xsht001.dgn	DRAWN - MGD	REVISED -			6800	05-00500-19-GS	KNOX	221	191
Default	PLOT DATE = 9/8/2015	CHECKED - MPB	REVISED -			50VB		CONTRACT NO.89417		
		DATE - 9/9/2015	REVISED -			ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
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TEMPLATE	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
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FILE NAME =
 USER NAME = andr00846
 DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

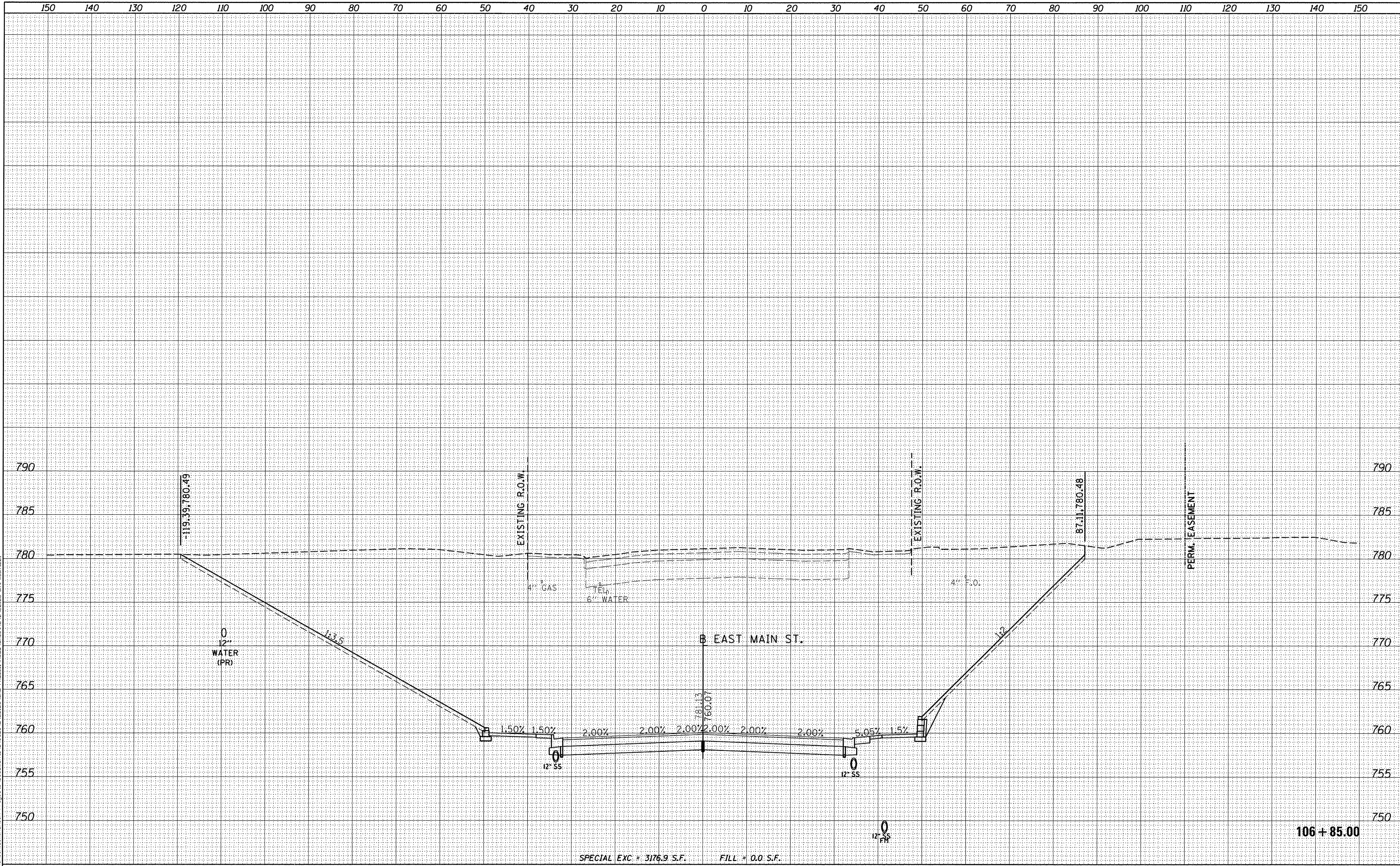
EAST MAIN STREET
CROSS SECTIONS
 SCALE: 1"=10'
 SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	192
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
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AREAS CHECKED	



ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
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AREAS CHECKED	



FILE NAME =
 USER NAME = andr00846
 DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

REVISIONS
 REVISED -
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 REVISED -

SPECIAL EXC. = 3176.9 S.F.
 FILL = 0.0 S.F.

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET
 CROSS SECTIONS**

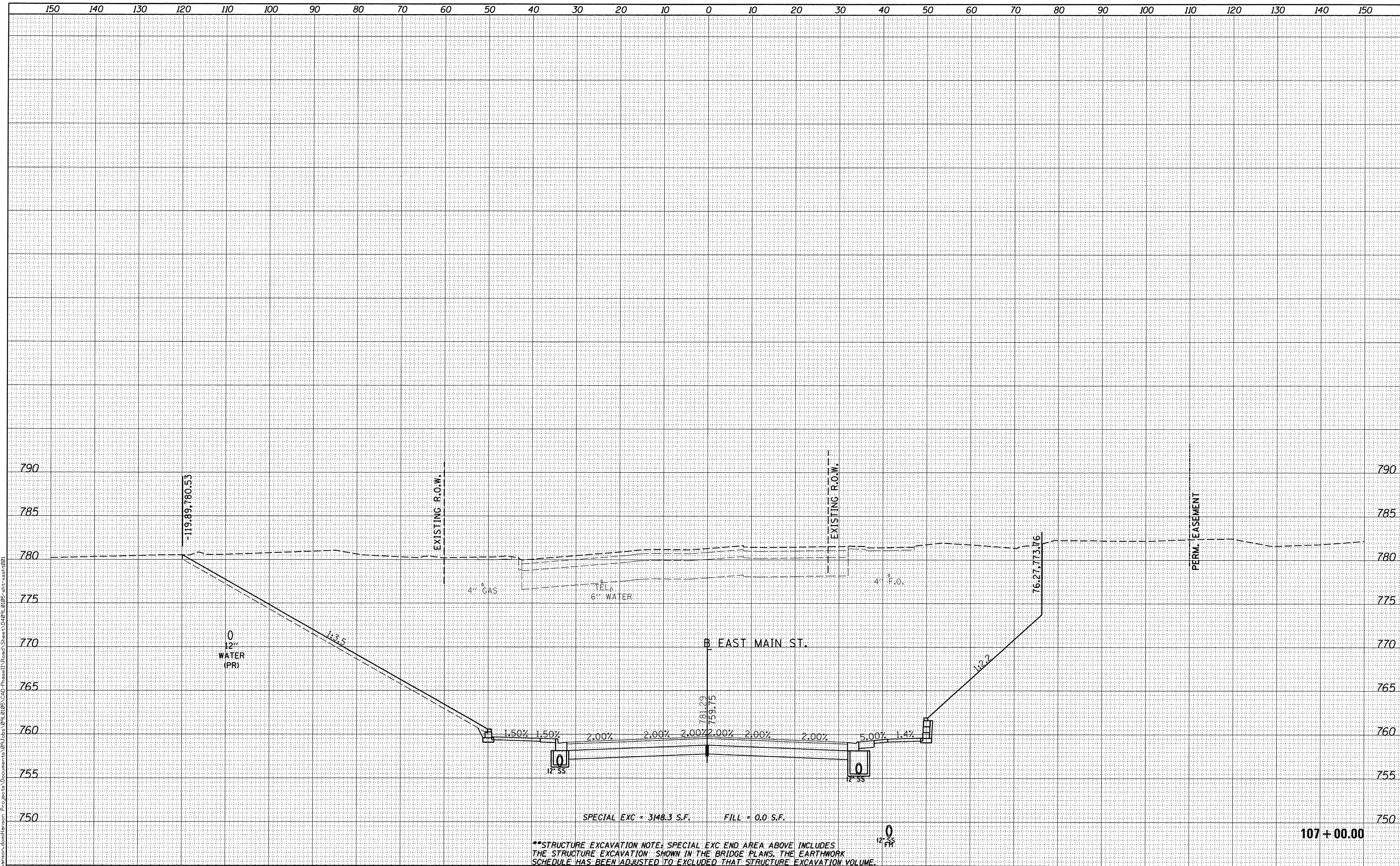
SCALE: 1"=10' SHEET OF SHEETS STA. 106+85.00 TO STA. 106+85.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	193
50VB			CONTRACT NO. 89417	
ILLINOIS FED. AID PROJECT				

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



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



SPECIAL EXC = 3148.3 S.F. FILL = 0.0 S.F.

****STRUCTURE EXCAVATION NOTE: SPECIAL EXC END AREA ABOVE INCLUDES THE STRUCTURE EXCAVATION SHOWN IN THE BRIDGE PLANS. THE EARTHWORK SCHEDULE HAS BEEN ADJUSTED TO EXCLUDE THAT STRUCTURE EXCAVATION VOLUME.****

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Default	PLOT DATE = 9/8/2015

DESIGNED - RLA	REVISED -
DRAWN - MGD	REVISED -
CHECKED - MPB	REVISED -
DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

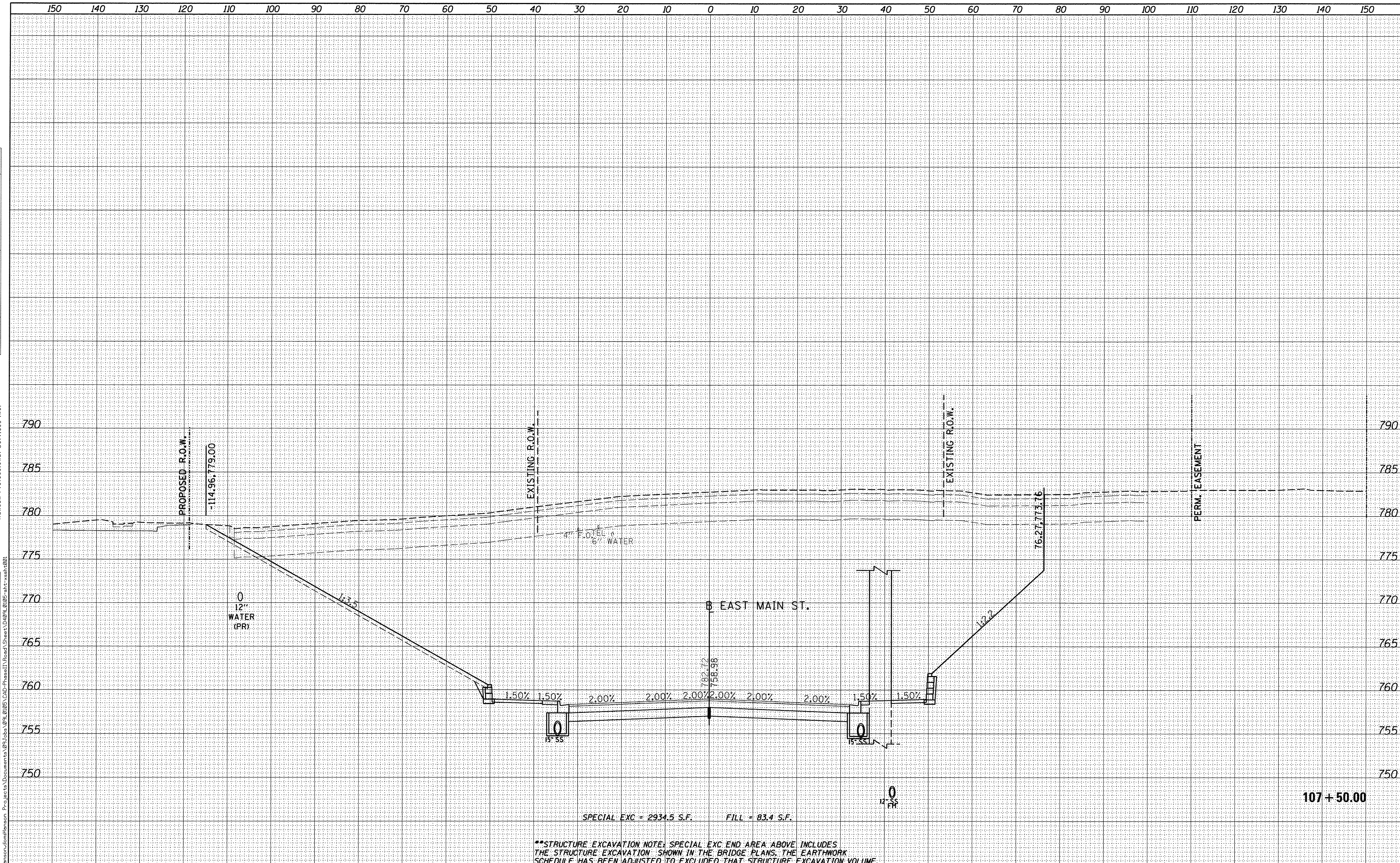
EAST MAIN STREET CROSS SECTIONS	
SCALE: 1"=10'	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	194
50VB			CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
NOTE BOOK	BY
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SURVEYED	
TEMPLATE	
AREAS CHECKED	



ORIGINAL SURVEY	DATE
NOTE BOOK	BY
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SURVEYED	
TEMPLATE	
AREAS CHECKED	



FILE NAME =	USER NAME = andr00846	DESIGNED - RLA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST MAIN STREET CROSS SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwise_work\do_not_delete\0273754\0409L0105	shht-xshht001.dgn	DRAWN - MGD	REVISED -			6800	05-00500-19-GS	KNOX	221	195
PLOT SCALE = 10.0000' / in.	CHECKED - MPB	REVISED -	REVISED -			50VB	CONTRACT NO.89417			
PLOT DATE = 9/8/2015	DATE - 9/9/2015	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

**STRUCTURE EXCAVATION NOTE: SPECIAL EXC END AREA ABOVE INCLUDES THE STRUCTURE EXCAVATION SHOWN IN THE BRIDGE PLANS. THE EARTHWORK SCHEDULE HAS BEEN ADJUSTED TO EXCLUDE THAT STRUCTURE EXCAVATION VOLUME.

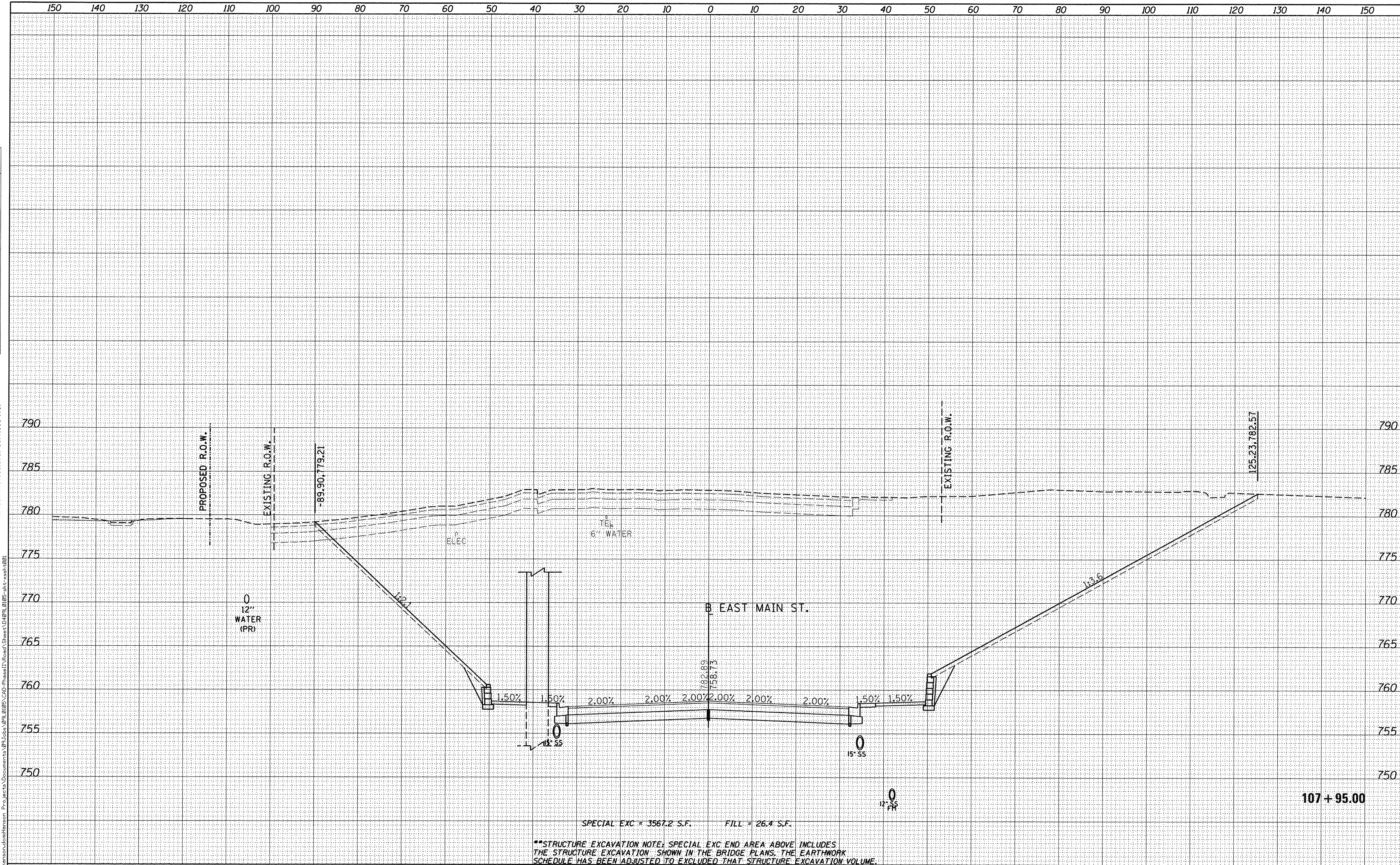
SPECIAL EXC = 2934.5 S.F. FILL = 83.4 S.F.

107 + 50.00

DATE	
BY	
FINAL SURVEY	
NOTED SURVEY	
NOTE BOOK	
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AREAS CHECKED	

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DATE	
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ORIGINAL SURVEY	
NOTED SURVEY	
NOTE BOOK	
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AREAS CHECKED	



FILE NAME =
 USER NAME = ander00846
 DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

REVISIONS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET
CROSS SECTIONS
 SCALE: 1"=10'
 SHEET OF SHEETS STA. 107+95.00 TO STA. 107+95.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-G5	KNOX	221	196
50VB			CONTRACT NO. 89417	
ILLINOIS FED. AID PROJECT				

**STRUCTURE EXCAVATION NOTE: SPECIAL EXC END AREA ABOVE INCLUDES THE STRUCTURE EXCAVATION SHOWN IN THE BRIDGE PLANS. THE EARTHWORK SCHEDULE HAS BEEN ADJUSTED TO EXCLUDE THAT STRUCTURE EXCAVATION VOLUME.

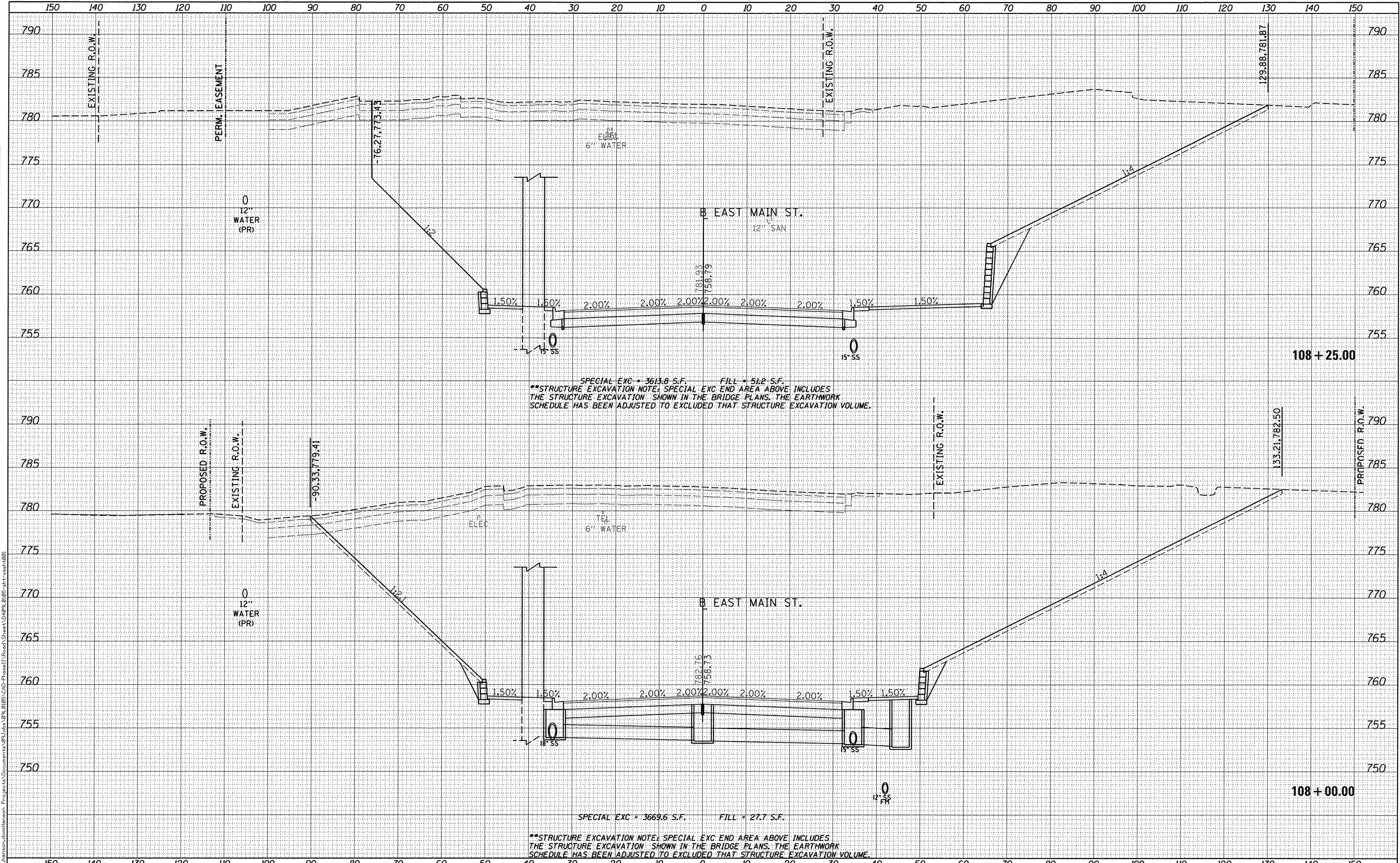
SPECIAL EXC = 3567.2 S.F. FILL = 26.4 S.F.

107+95.00

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
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SPECIAL EXC = 3613.8 S.F. FILL = 51.2 S.F.
 **STRUCTURE EXCAVATION NOTE: SPECIAL EXC END AREA ABOVE INCLUDES THE STRUCTURE EXCAVATION SHOWN IN THE BRIDGE PLANS. THE EARTHWORK SCHEDULE HAS BEEN ADJUSTED TO EXCLUDE THAT STRUCTURE EXCAVATION VOLUME.

SPECIAL EXC = 3669.6 S.F. FILL = 27.7 S.F.
 **STRUCTURE EXCAVATION NOTE: SPECIAL EXC END AREA ABOVE INCLUDES THE STRUCTURE EXCAVATION SHOWN IN THE BRIDGE PLANS. THE EARTHWORK SCHEDULE HAS BEEN ADJUSTED TO EXCLUDE THAT STRUCTURE EXCAVATION VOLUME.

FILE NAME =
 USER NAME = andr00846
 DESIGNED - RLA
 DRAWN - MGD
 CHECKED - MPB
 DATE - 9/9/2015

REVISIONS
 REVISION NO. DESCRIPTION
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'
 SHEET OF SHEETS STA. TO STA.

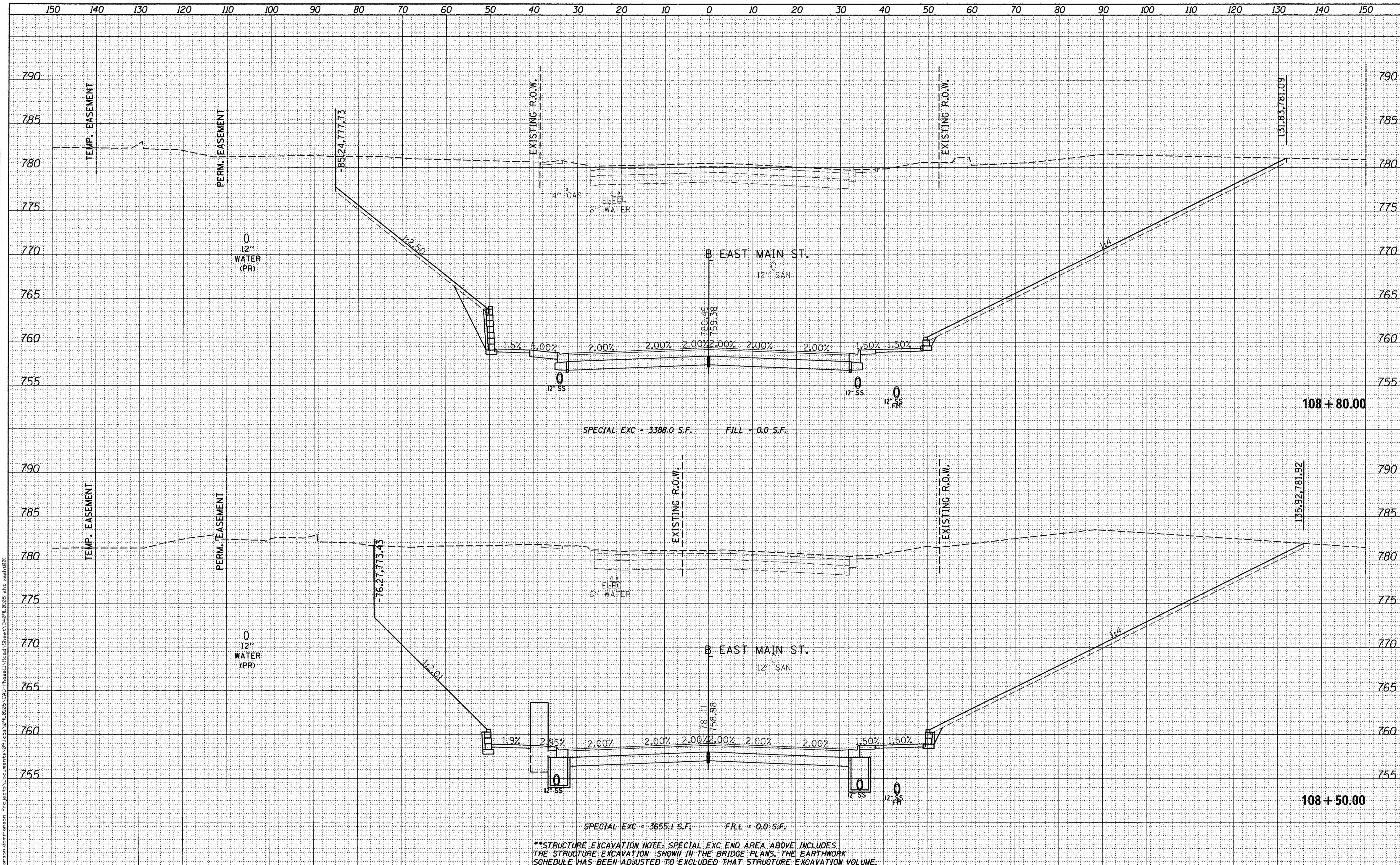
EAST MAIN STREET
 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	197
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
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TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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**STRUCTURE EXCAVATION NOTE: SPECIAL EXC END AREA ABOVE INCLUDES THE STRUCTURE EXCAVATION SHOWN IN THE BRIDGE PLANS. THE EARTHWORK SCHEDULE HAS BEEN ADJUSTED TO EXCLUDE THAT STRUCTURE EXCAVATION VOLUME.

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 PLOT SCALE = 10,0000 / 1 in.
 PLOT DATE = 9/8/2015

DESIGNED - RLA	REVISED -
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CHECKED - MPB	REVISED -
DATE - 9/9/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET
 CROSS SECTIONS

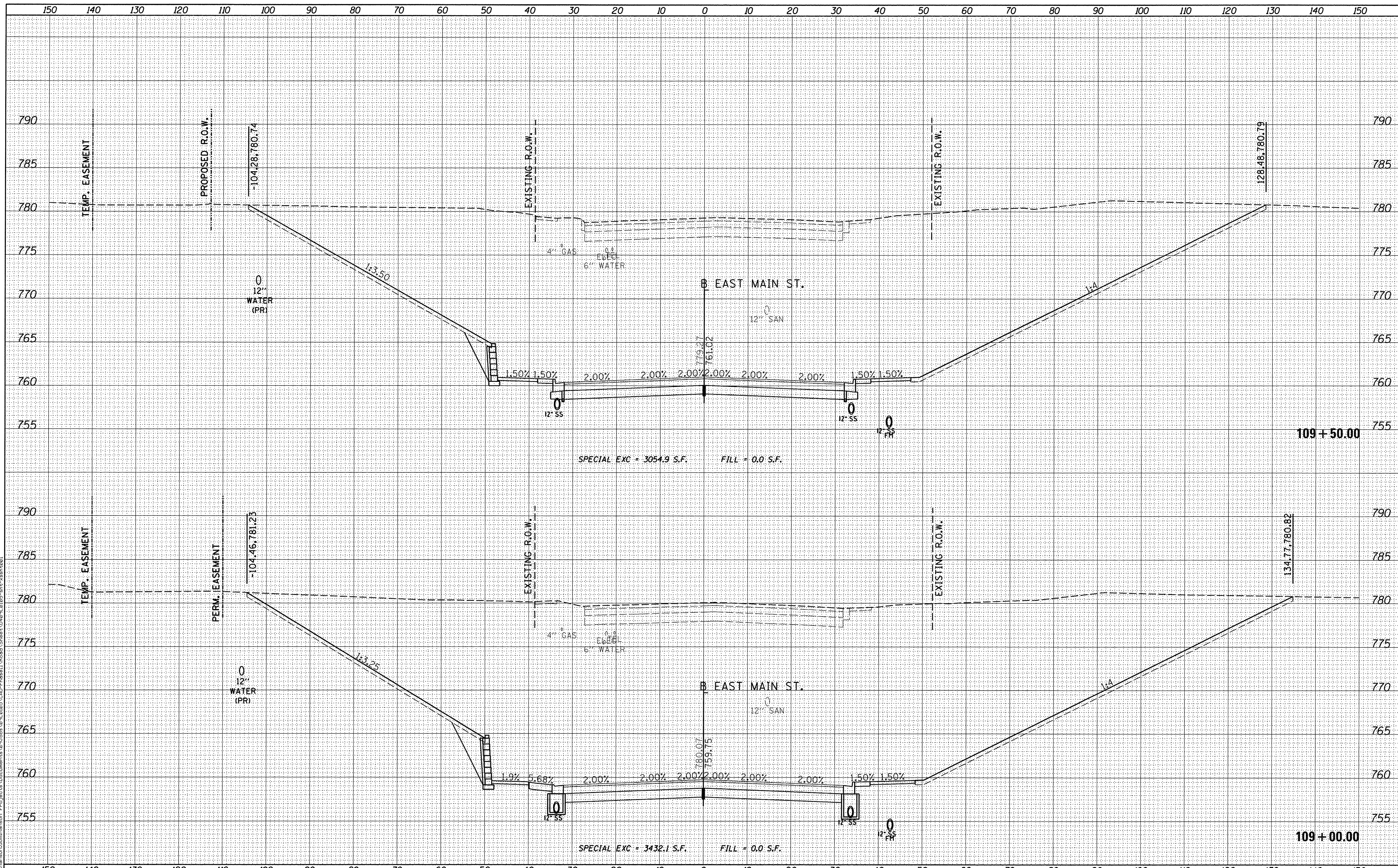
SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	198
50VB			CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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FILE NAME =
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USER NAME = andr-00846
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 PLOT DATE = 9/9/2015

DESIGNED - RLA
 DRAWN - MGD
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 DATE - 9/9/2015

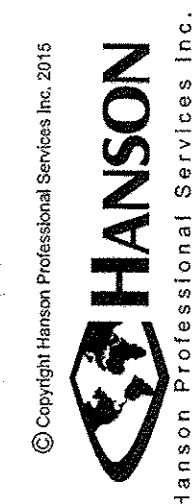
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

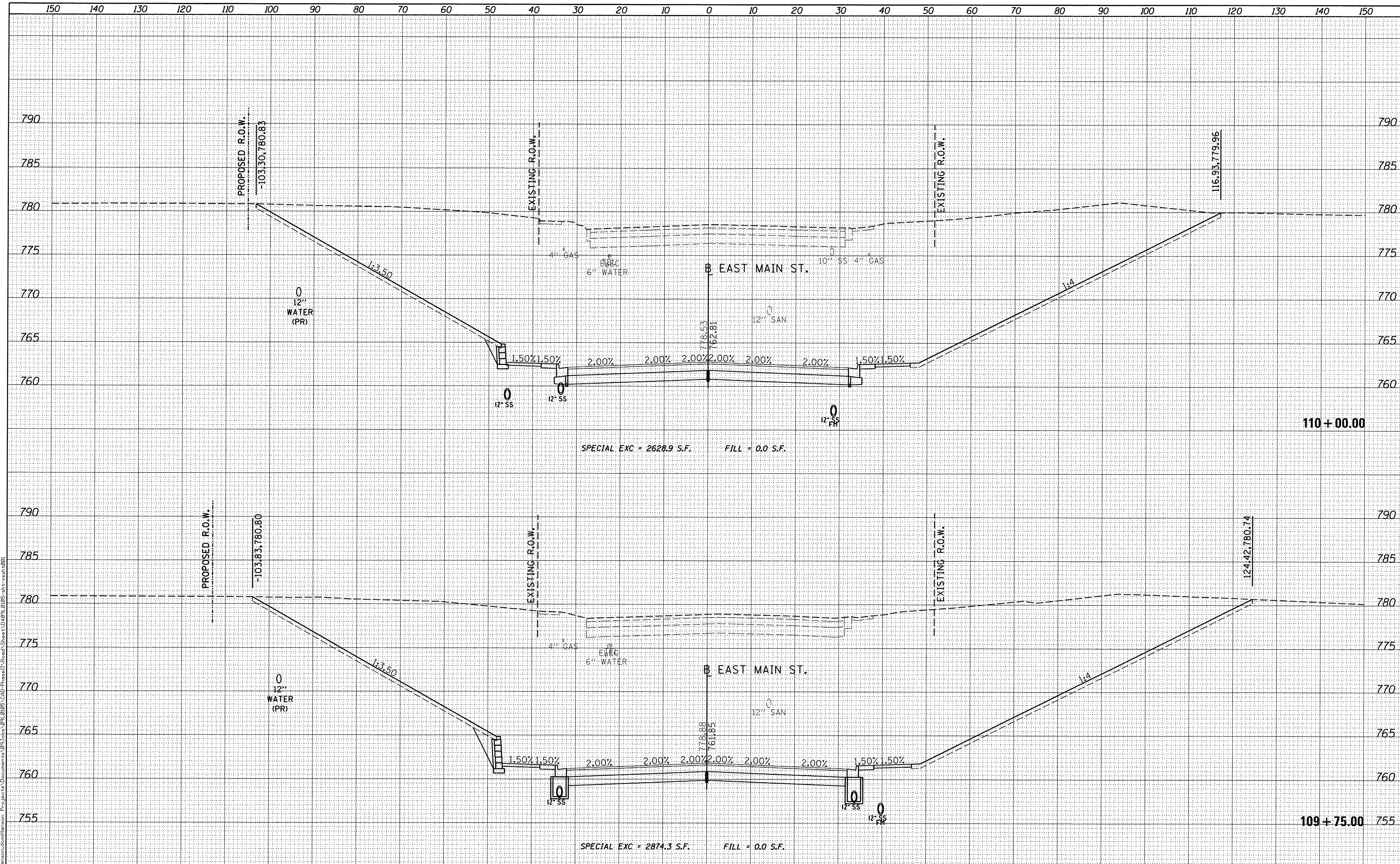
EAST MAIN STREET
CROSS SECTIONS
 SCALE: 1"=10'
 SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	199
50VB			CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
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DATE	
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ORIGINAL SURVEY	SURVEYED
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FILE NAME =	USER NAME = andr00846	DESIGNED - RLA	REVISED -
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	PLOT SCALE = 10.0000' / 1"	CHECKED - MPB	REVISED -
Default	PLOT DATE = 9/8/2015	DATE - 9/9/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET
CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 109+75.00 TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	221	200
	50VB		CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				