

**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:\spi-svr\305.hanson\dom\hanson Projects\Documents\09Jobs\09L0105\CA0-Phase1\Struct\Sheet\0489L0105-Anchor Bolt Layout Plan

USER NAME	= andr00846	DESIGNED	- TDP	REVISED	-
		CHECKED	- MAF	REVISED	-
PLOT SCALE	= 4:0.0000 '1" =	DRAWN	- GTJ	REVISED	-
PLOT DATE	= 11/13/2015	CHECKED	- MAF	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ANCHOR BOLT AND BEARING LAYOUT PLAN**  
**STRUCTURE 048-9928**

SHEET NO. 21 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-65	KNOX	216	101
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. 105 with A563 GR DH heavy hex nut and standard washer.

All Bearing Plates and Hardware shall be galvanized after fabrication in accordance with the current A.S.T.M. designation: A123.

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 breakout 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.

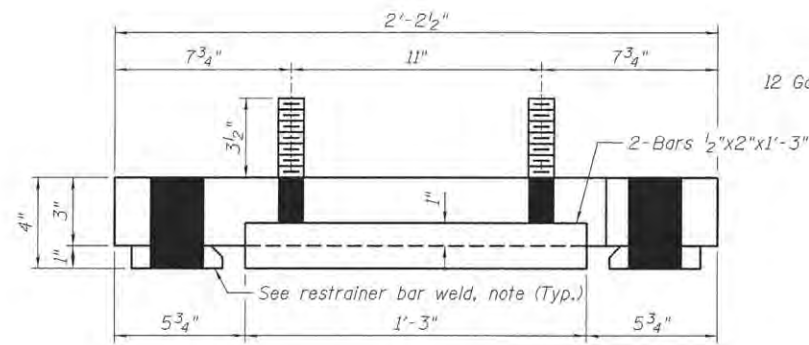
Laminated neoprene bearing pads shall be in accordance with A.R.E.M.A. Chapter 15.

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.

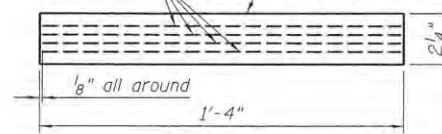
Clean top and bottom surfaces of neoprene bearing pads with methyl ethyl ketone to remove all traces of mold release agents. When mating surfaces are clean and dry, Class B Gel Type Epoxy shall be applied to a 5 mil thickness on the areas of the bridge seat where neoprene bearing pads are to be placed, 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 manufactures directions, shall be spread on the entire top area of bearing pads to a thickness of approximately 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.

Bearing Pads, Plates and Fasteners are included in the cost of Furnishing and Erecting Structural Steel.

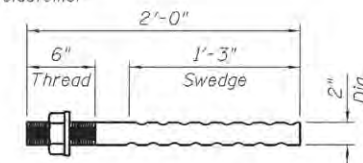


12 Gage Steel Sheet (4 Req'd.)  
3 internal layers of 3/8" elastomer between cover layers of 3/8" elastomer (60 durometer)



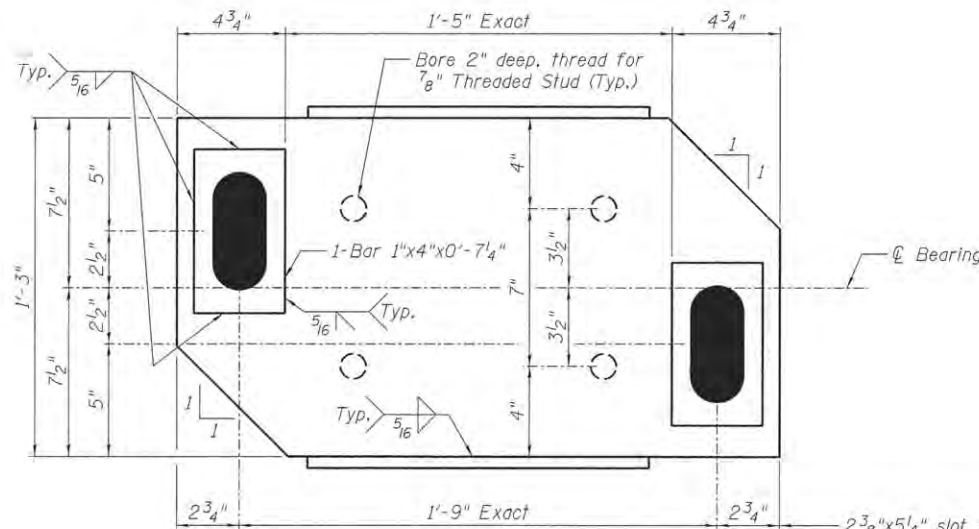
**BEARING PAD**

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



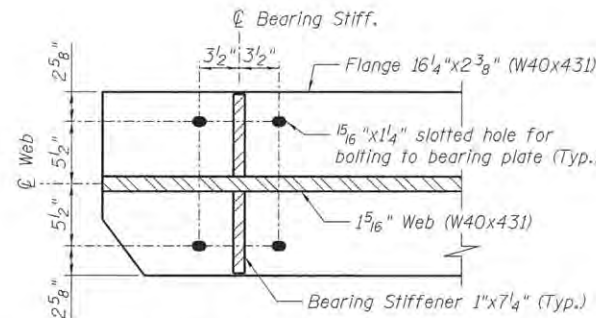
**ANCHOR BOLT**

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

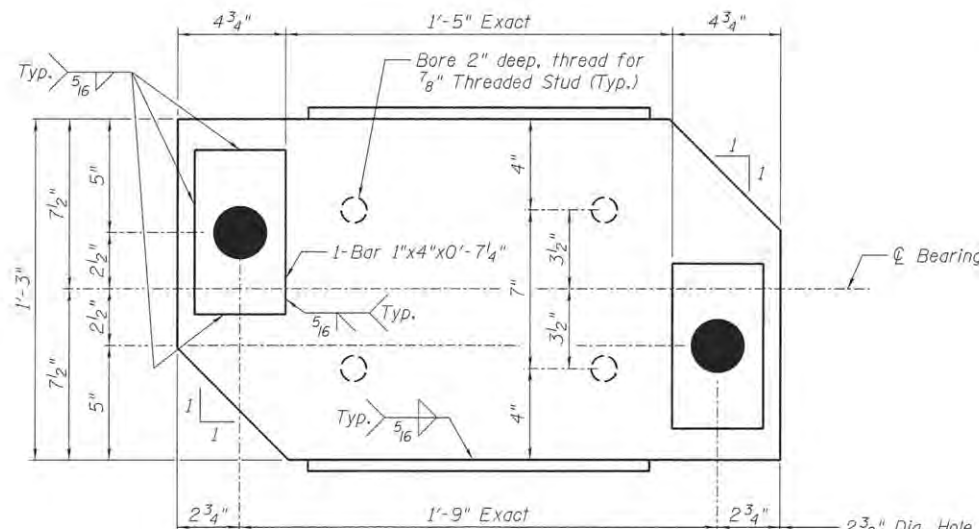


**EXPANSION BEARING PLATE DETAIL**

(Bottom side of plate shown)



**DETAIL - W40 BEAM BOTTOM FLANGE AT BEARING**

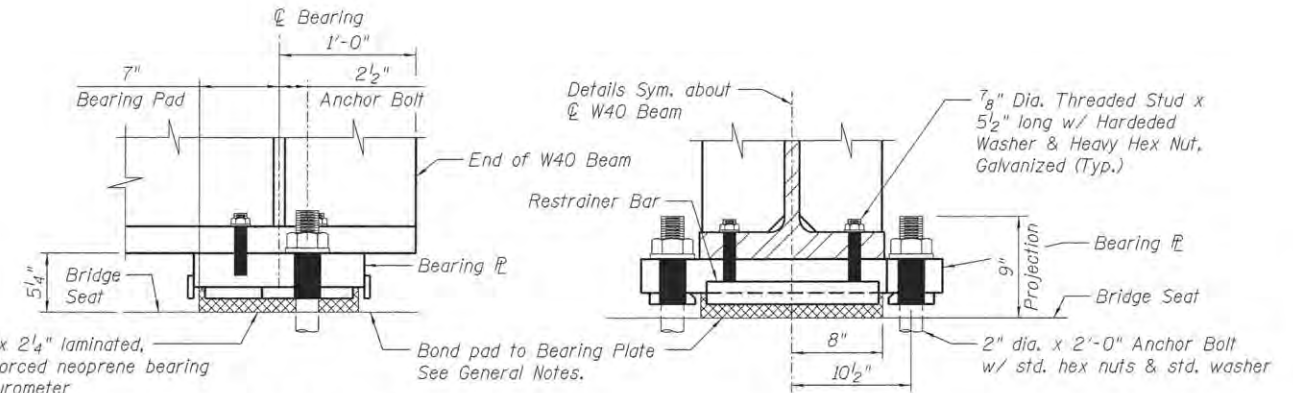


**FIXED BEARING PLATE DETAIL**

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

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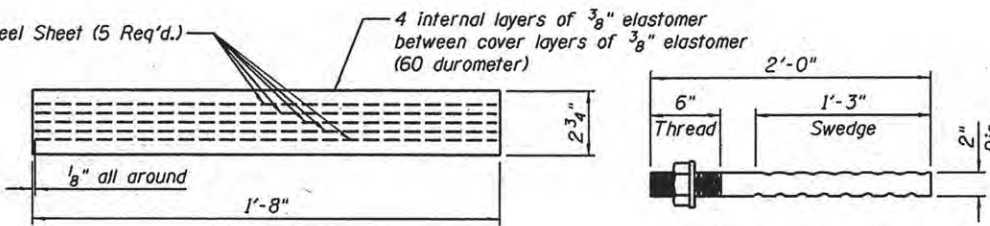
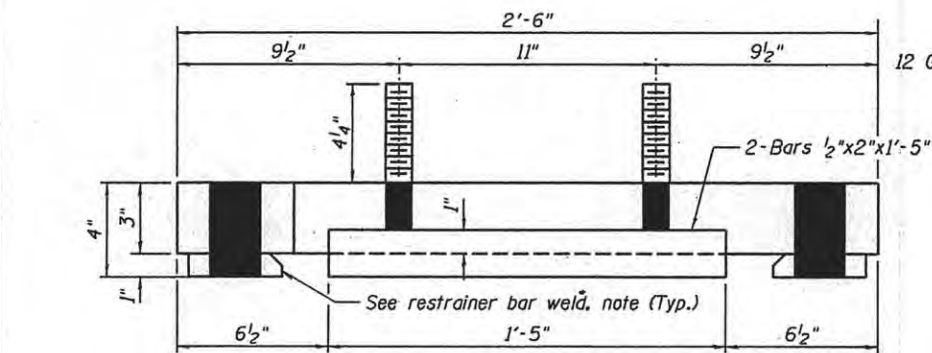
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PLOT SCALE = 0:4.0000 1' = 1/4"	CHECKED - MAF	REVISED -
PLOT DATE = 11/13/2015	DRAWN - GTJ	REVISED -
	CHECKED - MAF	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 22 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	102
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				

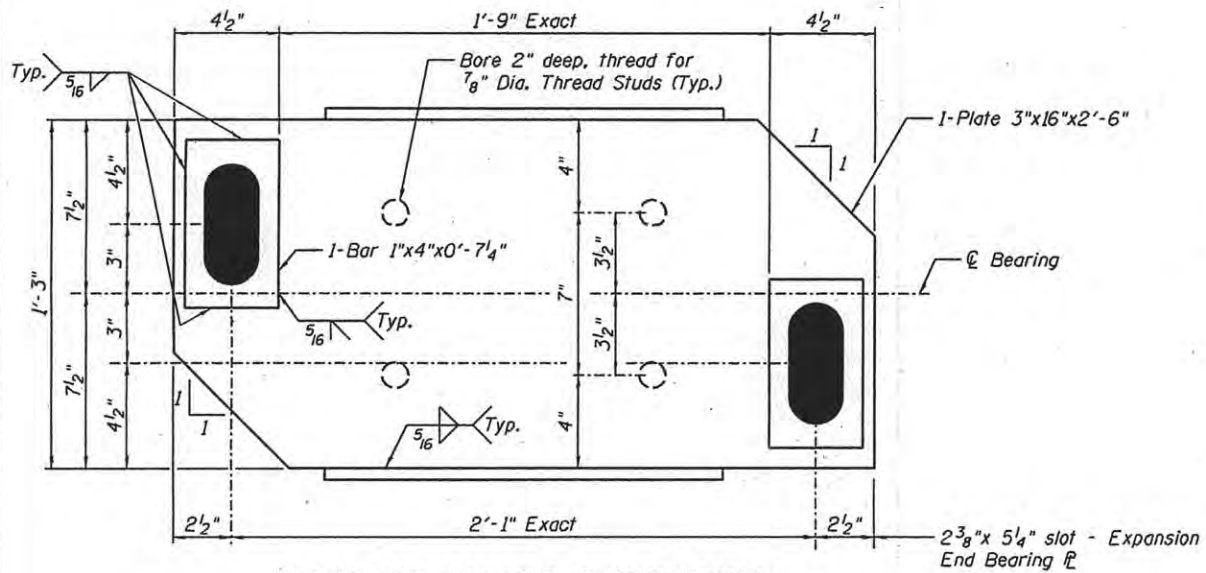


**BEARING PAD**

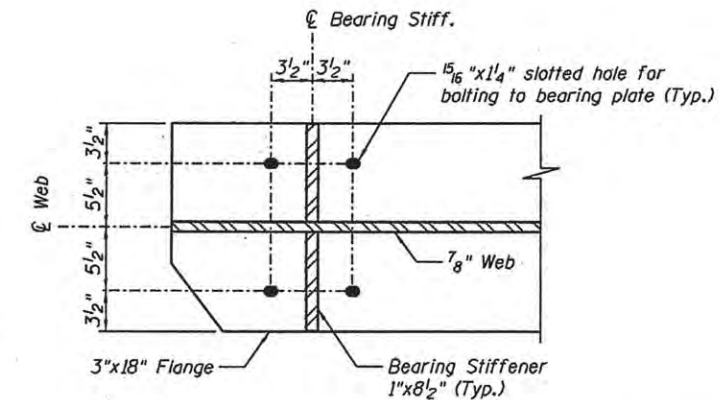
20" x 14" x 2 3/4" laminated, steel reinforced neoprene bearing pad 60 durometer 30 req'd.

**ANCHOR BOLT**

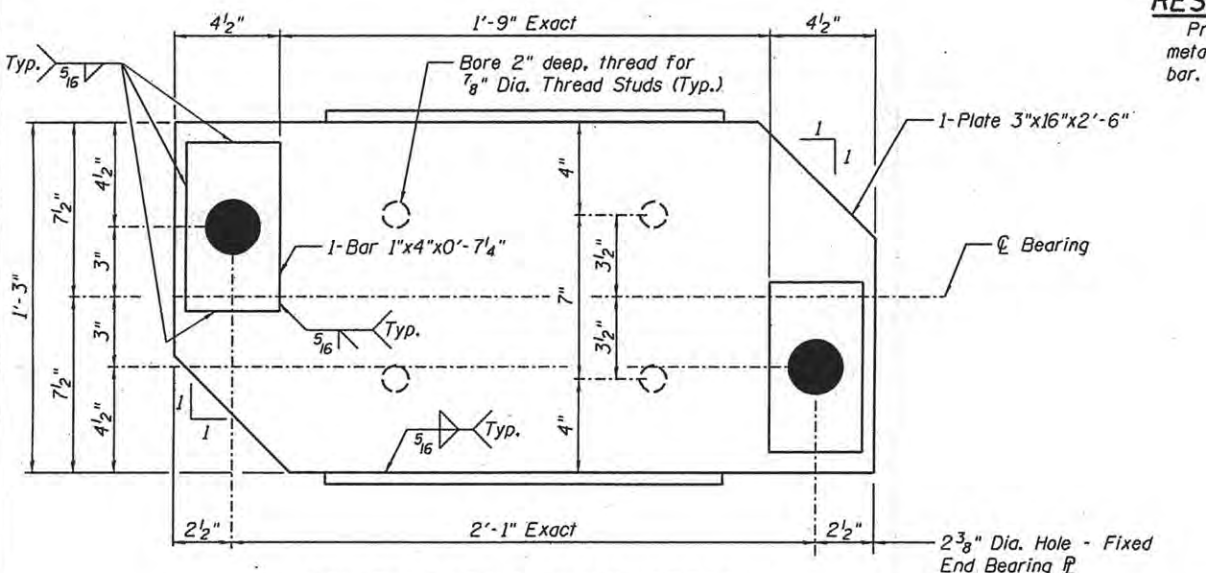
ASTM F1554, Gr. 105  
1-Bar 2" Dia. x 2'-0"  
1-Std. Hex Nut, 2" Dia.  
1-Std. Washer, 2 3/8" Dia. hole  
Galvanize after fabrication



**EXPANSION BEARING PLATE DETAIL**  
(Bottom side of plate shown)



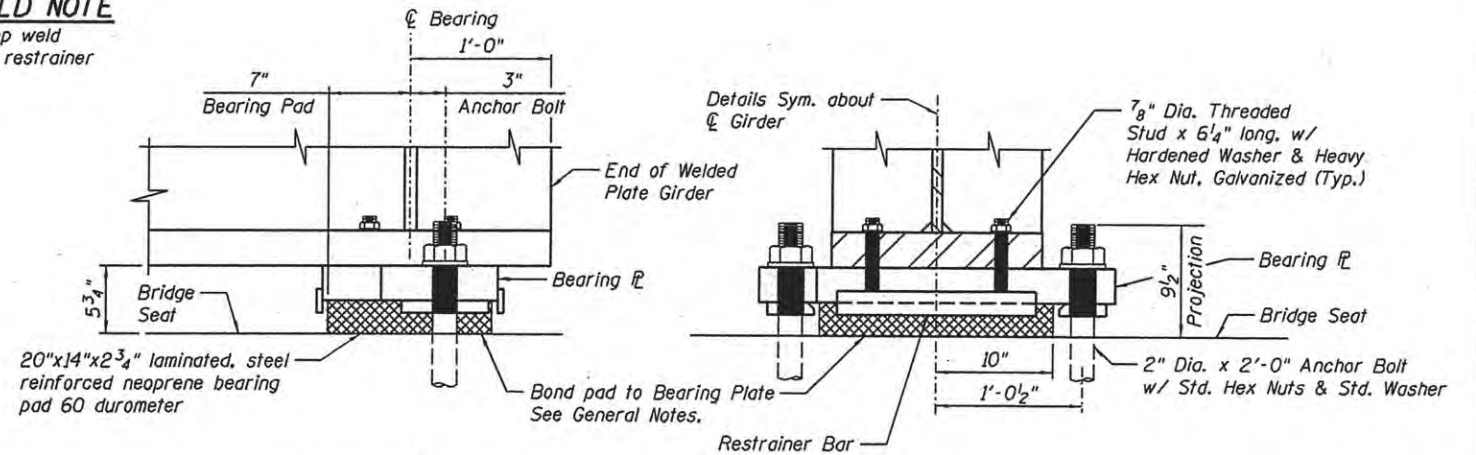
**DETAIL - GIRDER BOTTOM FLANGE AT BEARING**



**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**

**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.

All Bearing Plates and Hardware shall be galvanized after fabrication in accordance with the current A.S.T.M. designation: A123.

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.

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

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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 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.

Bearing Pads, Plates and Fasteners are included in the cost of Furnishing and Erecting Structural Steel.

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

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USER NAME	Jerrin00313
DESIGNED	TDP
CHECKED	MAF
PLOT SCALE	0:8.0000 1' = 1/8"
PLOT DATE	1/15/2016
DESIGNED	TDP
CHECKED	MAF

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS - SPAN #2  
STRUCTURE 048-9928

SHEET NO. 23 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	103
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				

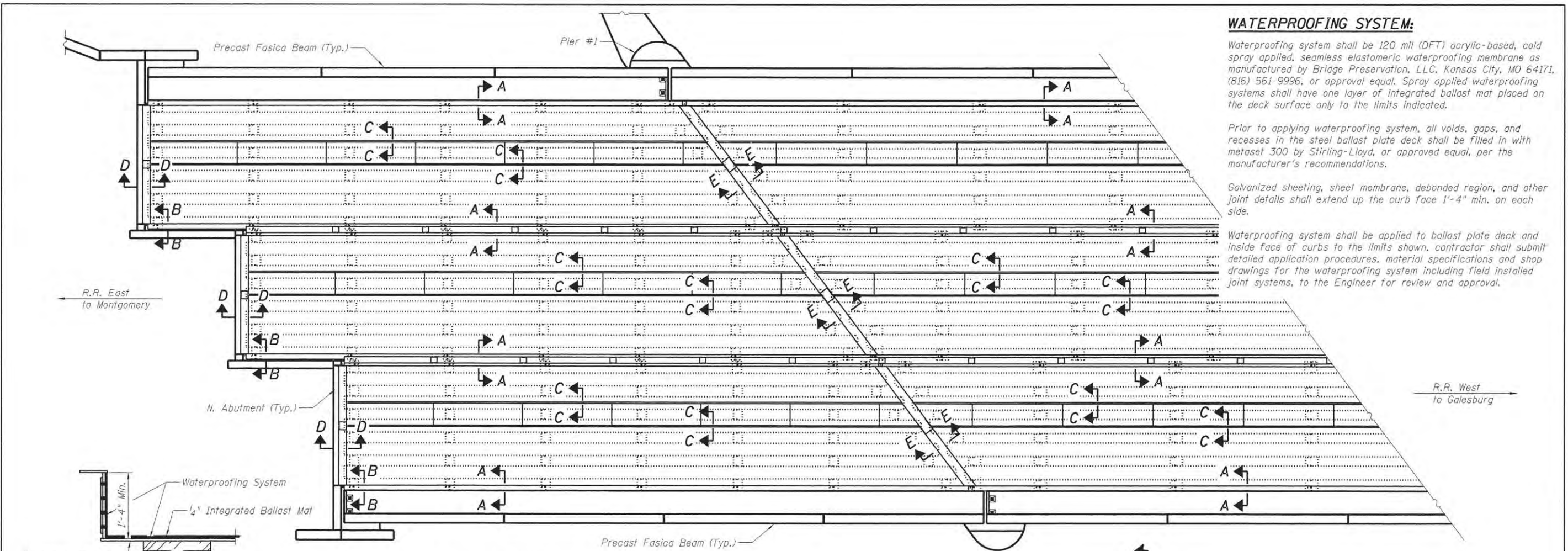
**WATERPROOFING SYSTEM:**

Waterproofing system shall be 120 mil (DFT) acrylic-based, cold spray applied, seamless elastomeric waterproofing membrane as manufactured by Bridge Preservation, LLC, Kansas City, MO 64171, (816) 561-9996, or approval equal. Spray applied waterproofing systems shall have one layer of integrated ballast mat 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 by Stirling-Lloyd, or approved equal, 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.

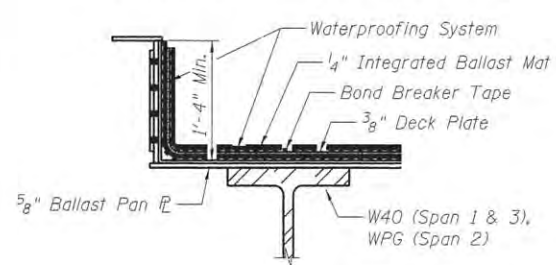


**BILL OF MATERIAL**

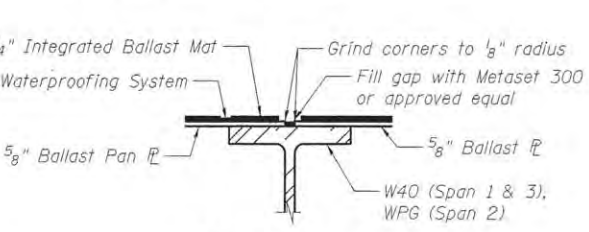
ITEM	UNIT	TOTAL
Membrane Waterproofing	Sq. Yd.	10,480

**WATERPROOFING PLAN**

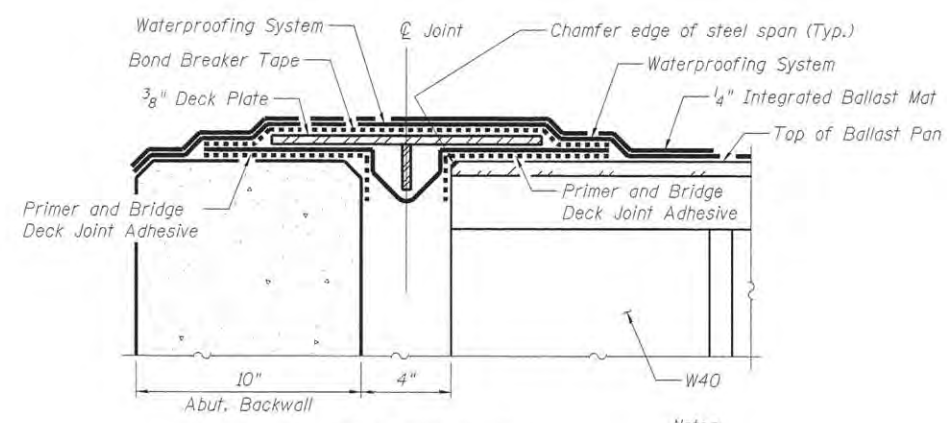
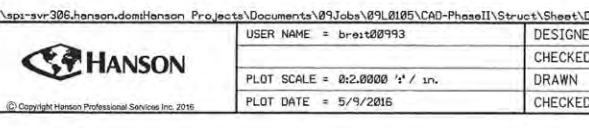
**SECTION A-A (TYP. AT CURBS)**



**SECTION B-B (TYP. AT JOINTS)**

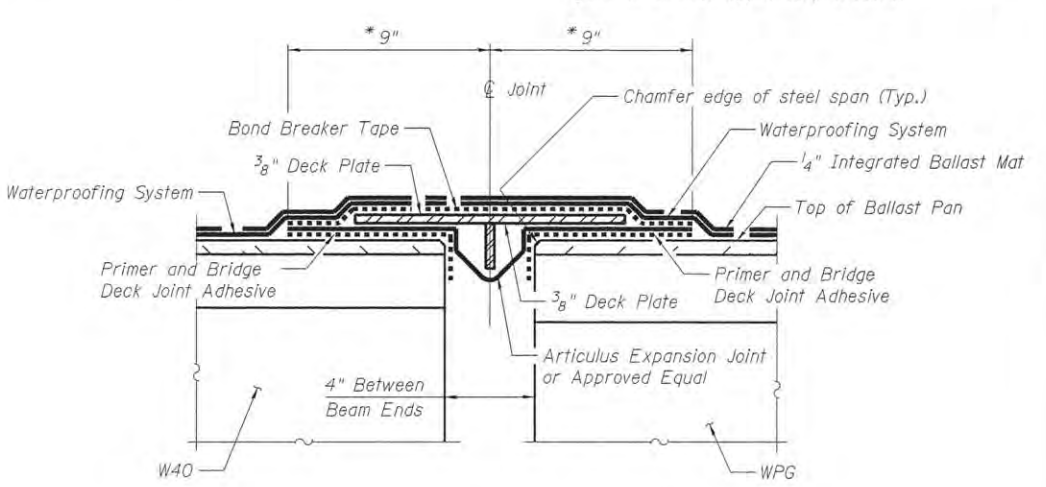


**SECTION C-C**



**SECTION D-D**

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



**SECTION E-E**

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

\*Waterproofing system shall be debanded 9" from each joint center by using debonding tape at the joint or another approved procedure.

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

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USER NAME = brest0993	DESIGNED - TDP	REVISION
PLOT SCALE = 8:2,000 1/4" = 1'-0"	CHECKED - MAF	REVISION -
PLOT DATE = 5/9/2016	DRAWN - GTJ	REVISION -
	CHECKED - MAF	REVISION -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

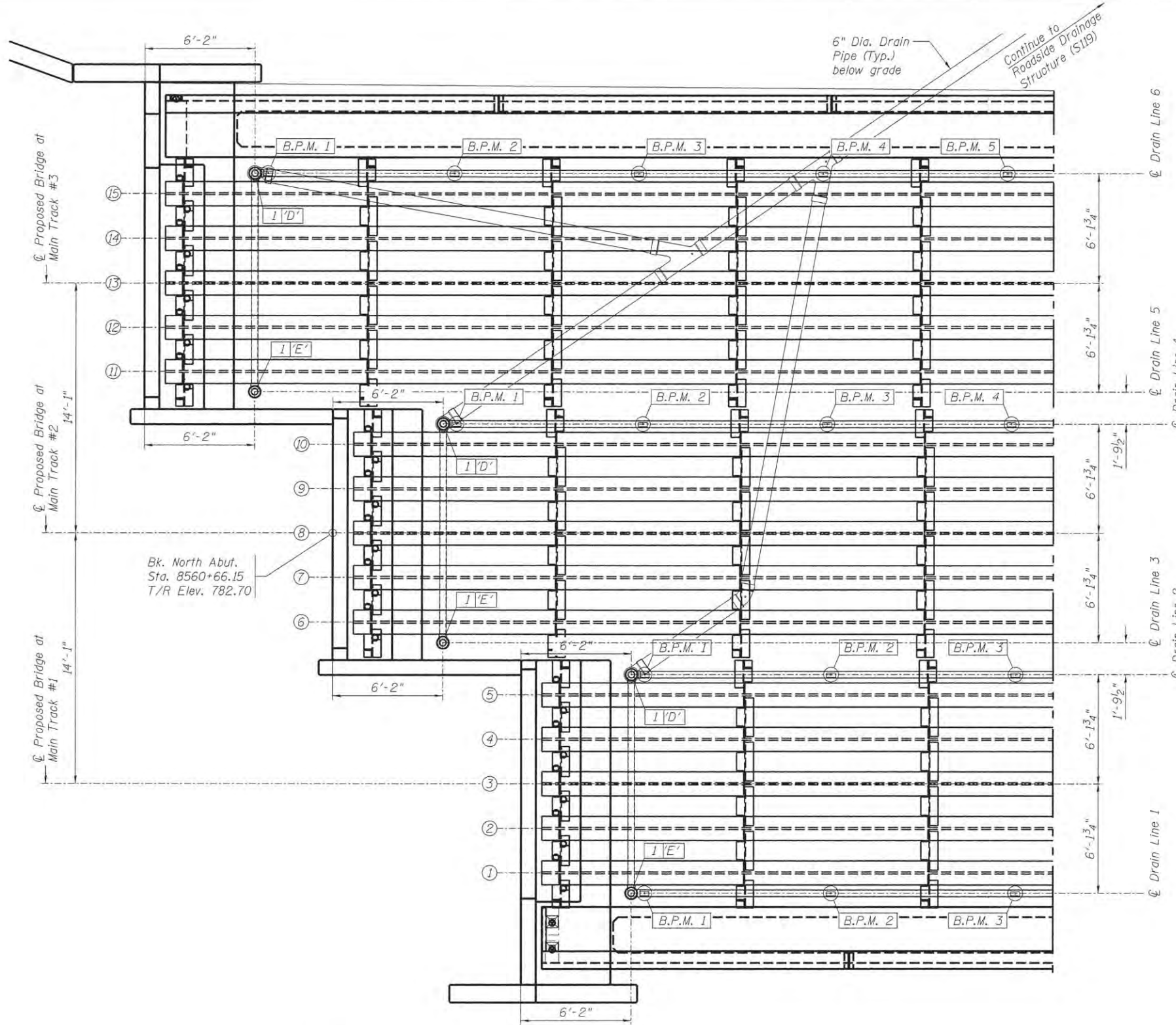
**WATERPROOFING DETAILS  
 STRUCTURE 048-9928**

SHEET NO. 24 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-G5	KNOX	216	104
ILLINOIS FED. AID PROJECT				CONTRACT NO. 89417

R.R. East  
to Montgomery

R.R. West  
to Galesburg



**NOTES:**

1. All piping, fittings, support brackets, inserts, bolts and any other material required on the bridge and to run the system to Roadside Drainage Structures Inlet shall be included in the lump sum cost of "Drainage System".
2. Drainage System above grade shall have a minimum slope of 1% and a maximum of 8%.
3. All piping underground shall be buried a minimum of 3'-6".
4. Runs of pipe shall be supported at spacings not exceeding those recommended by the manufacturer of the pipe.
5. See Sheets 28 to 30 for additional notes and details.
6. Provide Flexible Coupling at joint between Spans #1 and #2.

**LEGEND:**

Line Fitting Designation — Line Fitting Type  
I'E'  
B.P.M.# Ballast Pan Mounted 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

ps:\spi-svr\306.hanson.dom\hanson\_projects\Documents\09.Jobs\09L0105\CA0-Phase1\Struct\Sheet\0409L0105-Deck\_Drainage-4



USER NAME = andr0046	DESIGNED - JEC	REVISED -
PLOT SCALE = 0.083333 ' / in.	CHECKED - MAF	REVISED -
PLOT DATE = 11/13/2015	DRAWN - RAH	REVISED -
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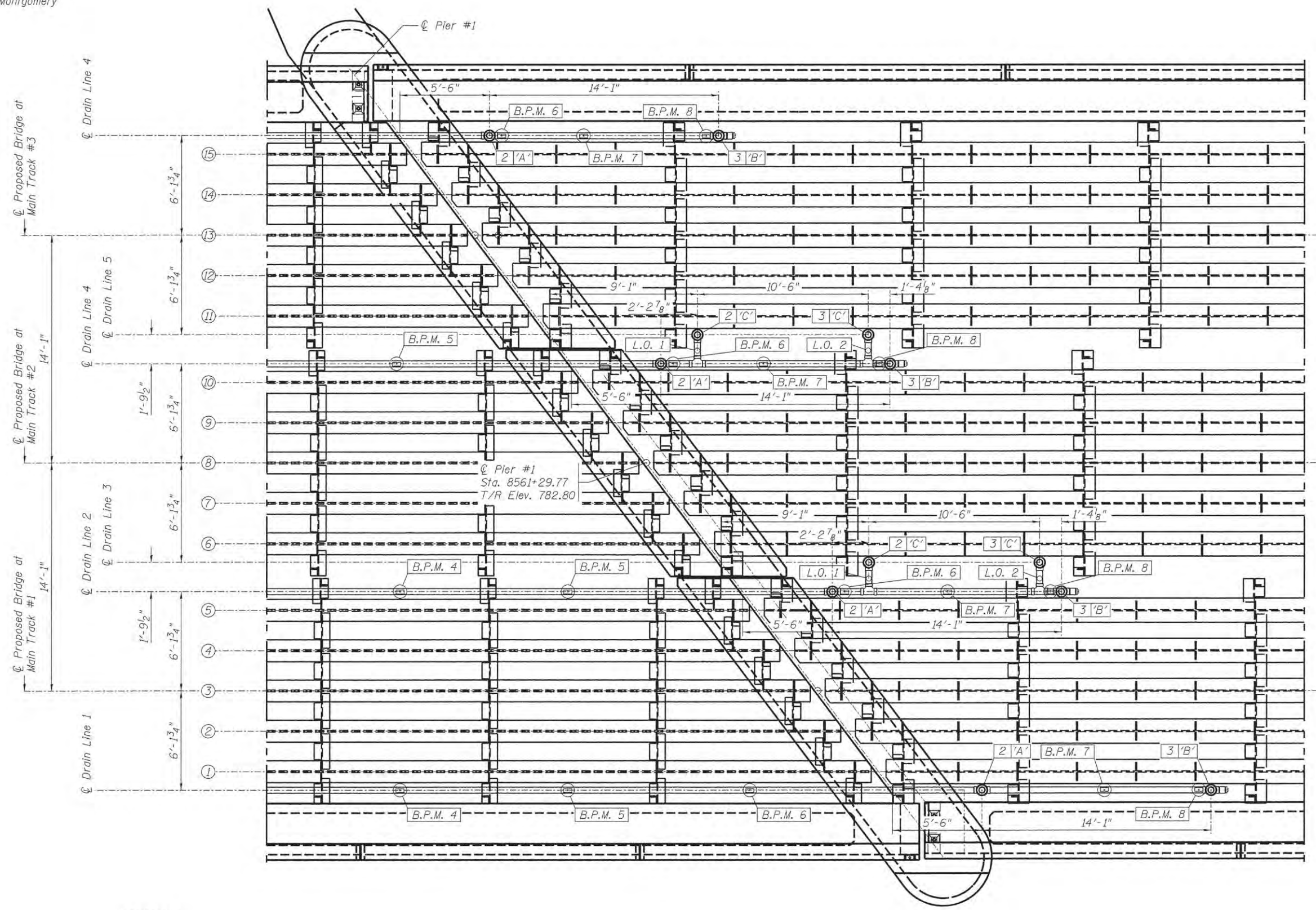
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DECK DRAINAGE PLAN - SPAN #1**  
**STRUCTURE 048-9928**  
 SHEET NO. 25 OF 48 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	105
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				

R.R. East  
to Montgomery

R.R. West  
to Galesburg



**NOTES:**

1. All piping, fittings, support brackets, inserts, bolts and any other material required on the bridge and to run the system to Roadside Drainage Structures inlet shall be included in the lump sum cost of "Drainage System".
2. Drainage System above grade shall have a minimum slope of 1% and a maximum of 8%.
3. All piping underground shall be buried a minimum of 3'-6".
4. Runs of pipe shall be supported at spacings not exceeding those recommended by the manufacturer of the pipe.
5. See Sheets 28 to 30 for additional notes and details.
6. Provide Flexible Coupling at joint between Spans #1 and #2.

**LEGEND:**

- Line Fitting Designation 2 'A' Line Fitting Type
- B.P.M. ## Ballast Pan Mounted Vertical Support Bracket
- L.O. ## Lateral Offset Vertical Support Bracket



**PLAN VIEW - DECK DRAINAGE - SPAN #2**  
(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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USER NAME = ande-00846	DESIGNED - JEC	REVISED -
PLOT SCALE = 0.083333 ' / in.	CHECKED - MAF	REVISED -
PLOT DATE = 11/13/2015	DRAWN - RAH	REVISED -
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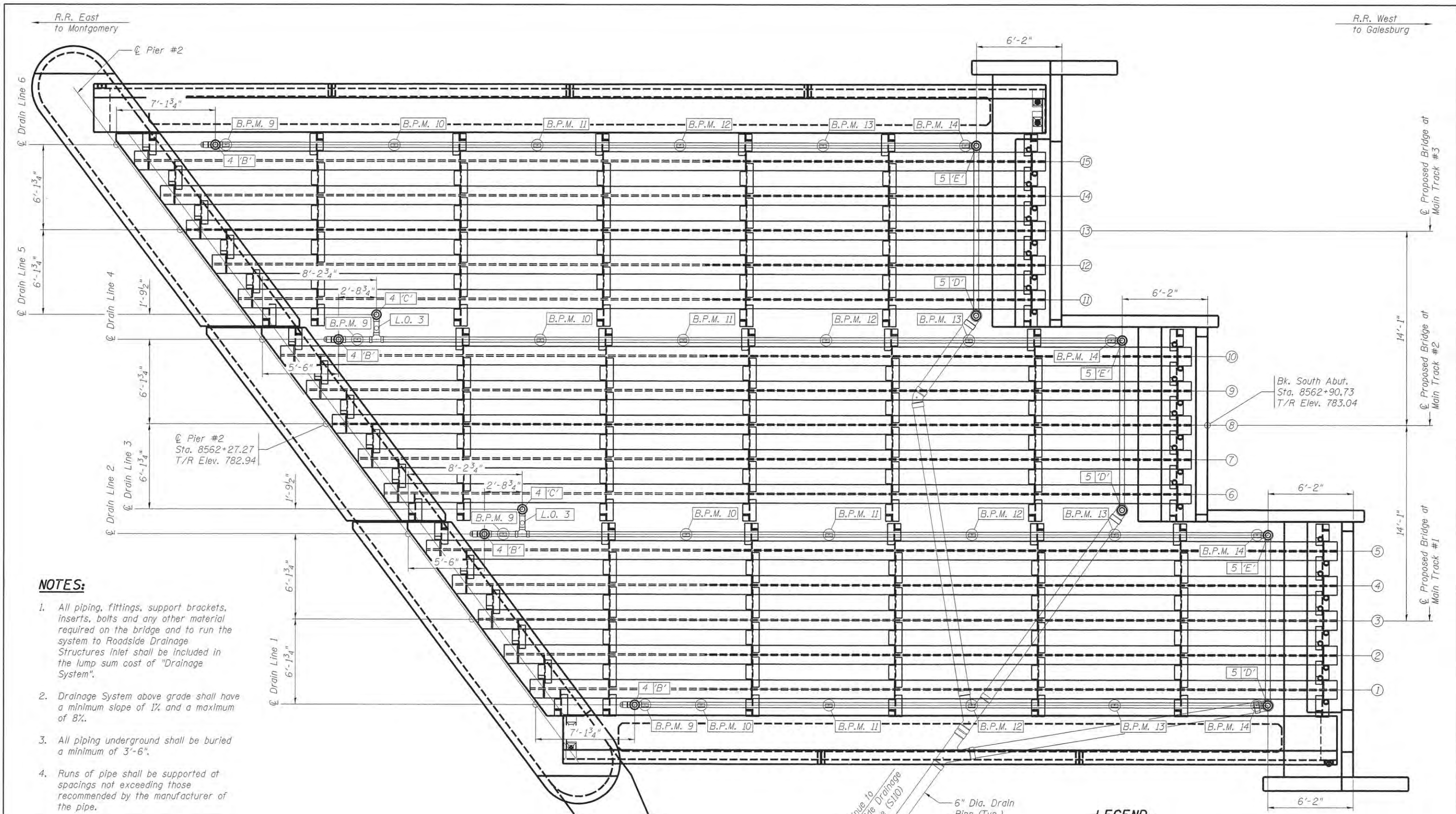
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DECK DRAINAGE PLAN - SPAN #2**  
**STRUCTURE 048-9928**  
SHEET NO. 26 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	106
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



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**NOTES:**

1. All piping, fittings, support brackets, inserts, bolts and any other material required on the bridge and to run the system to Roadside Drainage Structures Inlet shall be included in the lump sum cost of "Drainage System".
2. Drainage System above grade shall have a minimum slope of 1% and a maximum of 8%.
3. All piping underground shall be buried a minimum of 3'-6".
4. Runs of pipe shall be supported at spacings not exceeding those recommended by the manufacturer of the pipe.
5. See Sheets 28 to 30 for additional notes and details.
6. Provide Flexible Coupling at joint between Spans #2 and #3.

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

**LEGEND:**

- Line Fitting Designation 4 | 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 =	brext0993	DESIGNED -	JEC	REVISED	
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PLLOT DATE =	5/9/2016	DRAWN -	RAH	REVISED -	
		CHECKED -	MAF	REVISED -	

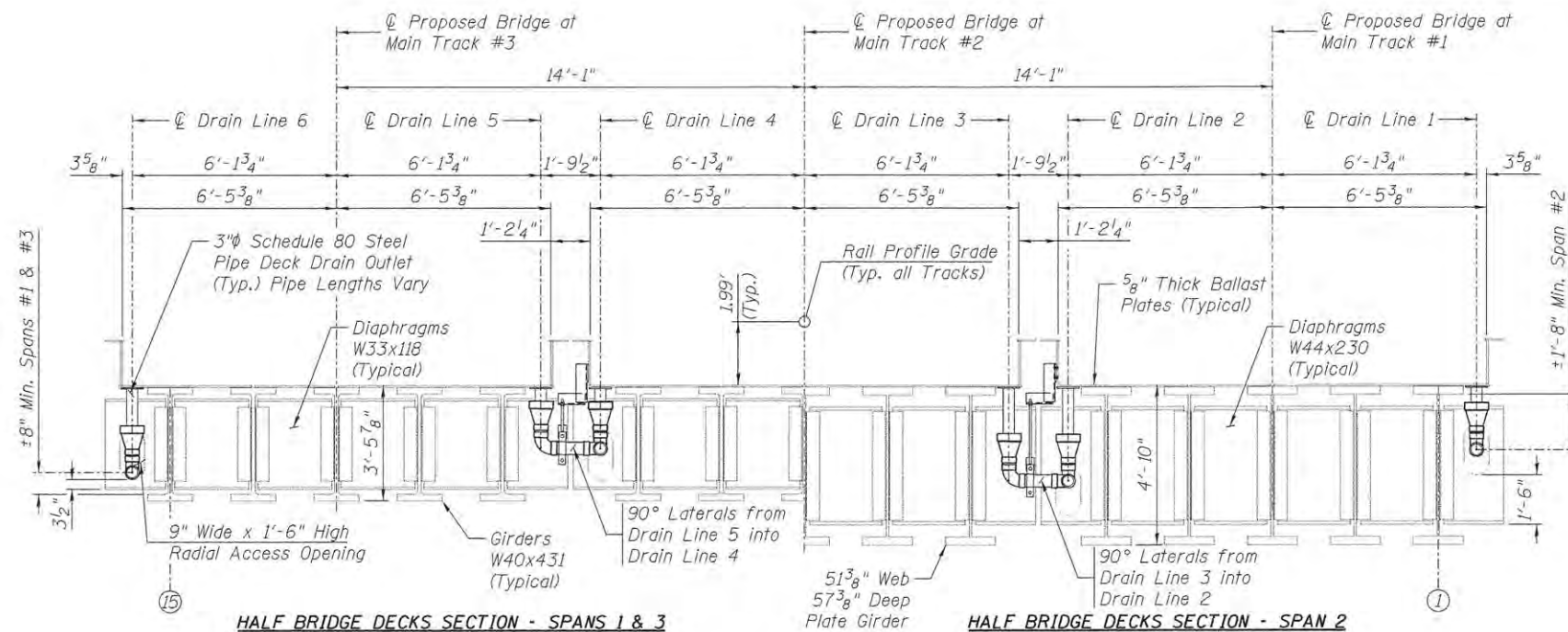
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

SHEET NO. 27 OF 48 SHEETS

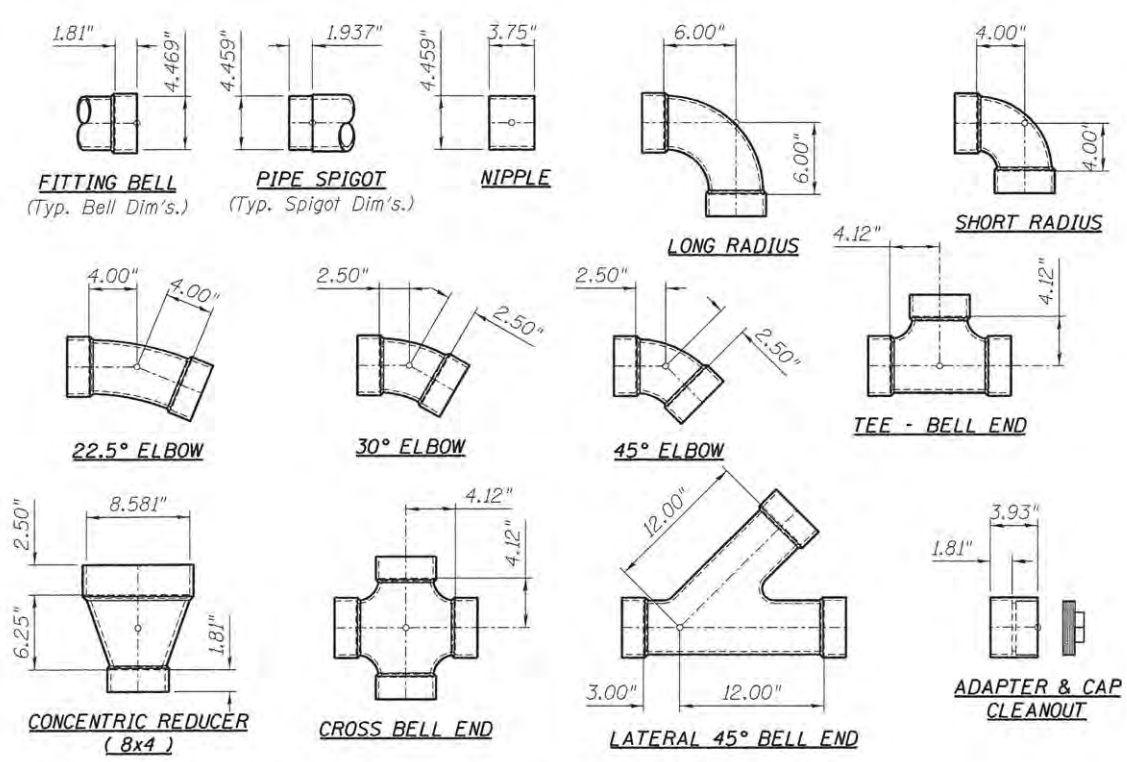
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	107
CONTRACT NO. 89417				

ILLINOIS FED. AID PROJECT

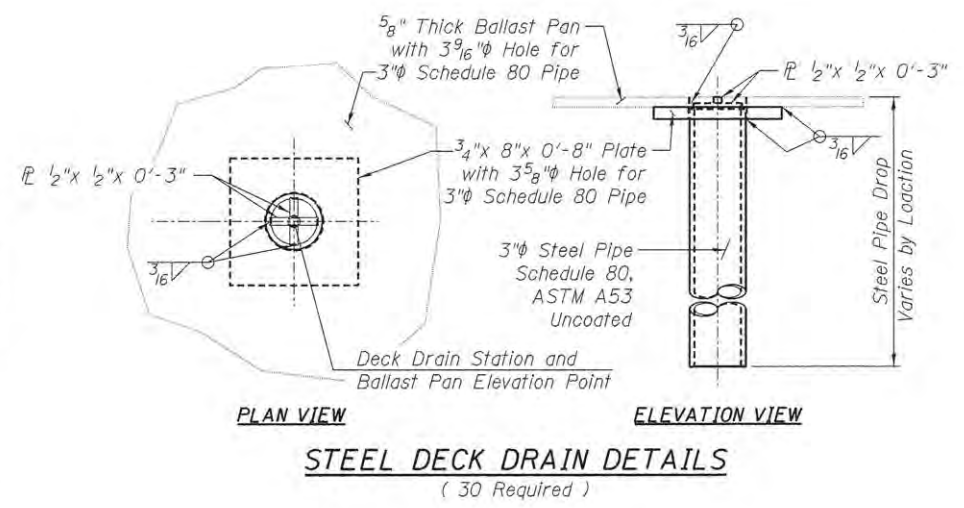


HALF BRIDGE DECKS SECTION - SPANS 1 & 3  
 HALF BRIDGE DECKS SECTION - SPAN 2

COMBINED DECKS SECTION - SHOWING DRAINAGE LOCATIONS - ALL TRACKS  
 ( Looking Track South - UpStation )



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



PLAN VIEW  
 ELEVATION VIEW  
 STEEL DECK DRAIN DETAILS  
 ( 30 Required )

**GENERAL NOTES - BRIDGE DRAINAGE SYSTEM**

Pipe, Fittings, Brackets, Clamps, all fastening and mounting hardware, pipe supplier approved weld 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.

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-SPI prior to painting and shall be coated with an Engineer approved Munsell color.

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

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USER NAME	= ande-00846
DESIGNED	- JEC
CHECKED	- MAF
PLOT SCALE	= 0.003333' / 1"
DRAWN	- RAH
REVIEWED	- MAF
PLOT DATE	= 11/13/2015
CHECKED	- MAF
REVIEWED	-
REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 28 OF 48 SHEETS

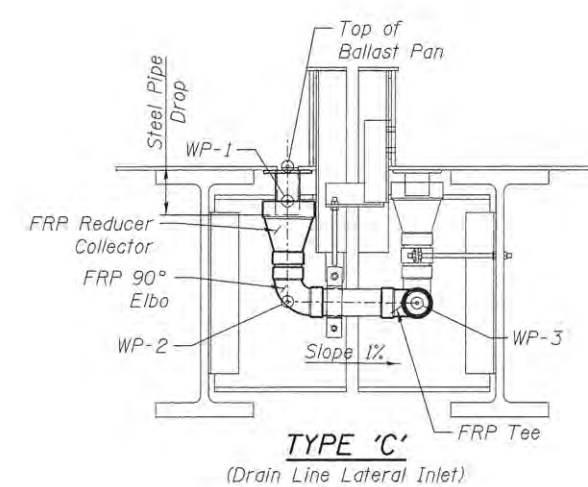
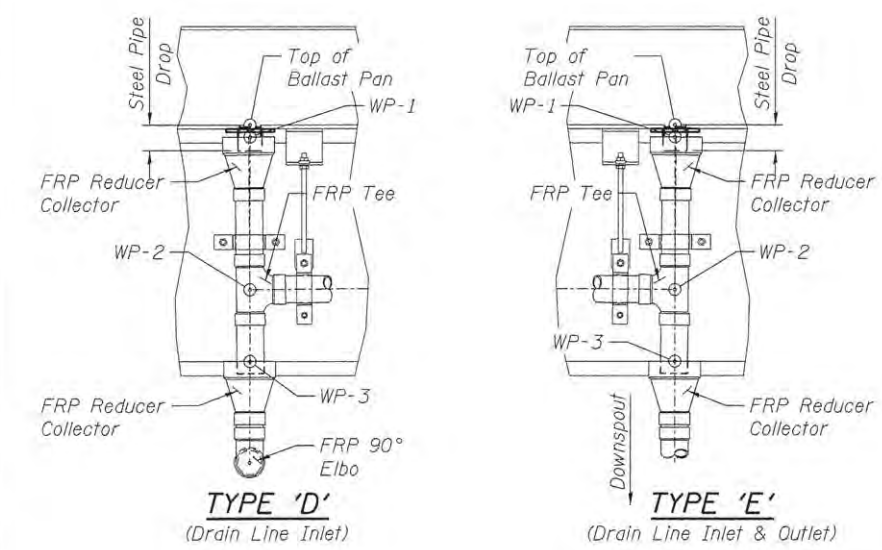
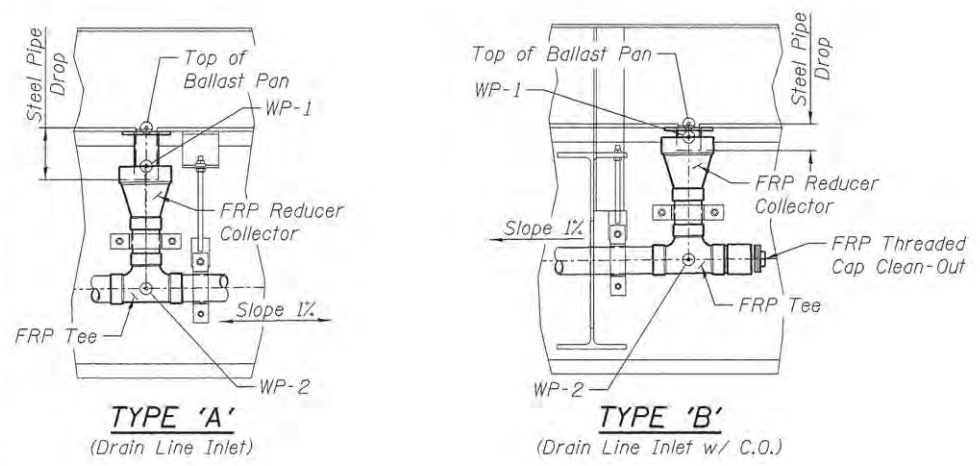
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	108
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				



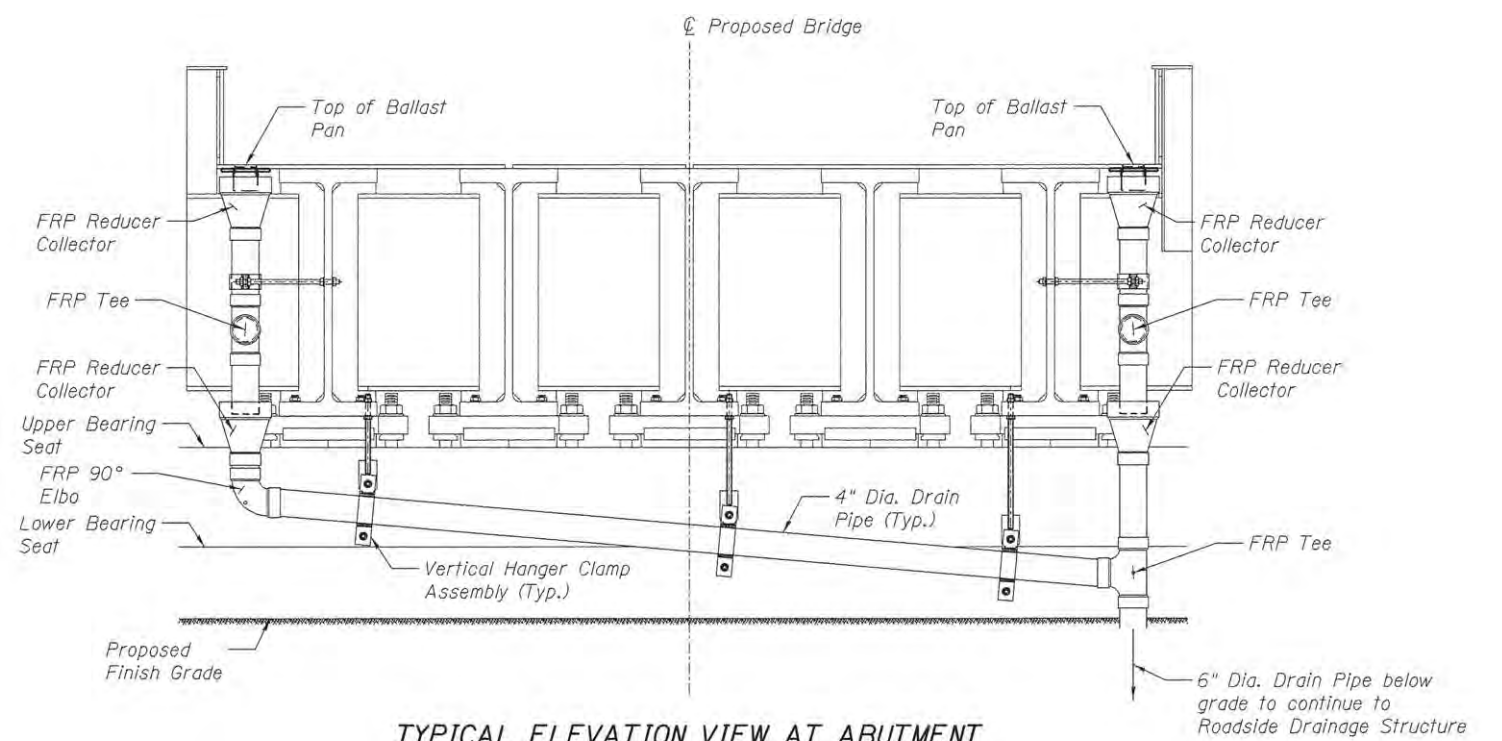
Copyright Hanson Professional Services Inc.







Note:  
For Length Calculations the Steel Pipe Deck Drains extend 2 1/4" below the W.P. on the FRP Reducer Collectors (Typical).



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

\\sp1-svr306.hanson.dom\hanson\_projects\09\Jobs\09\0105\CAD-PhaseII\Struct\Sheet\048-Deck\_Drainage-3

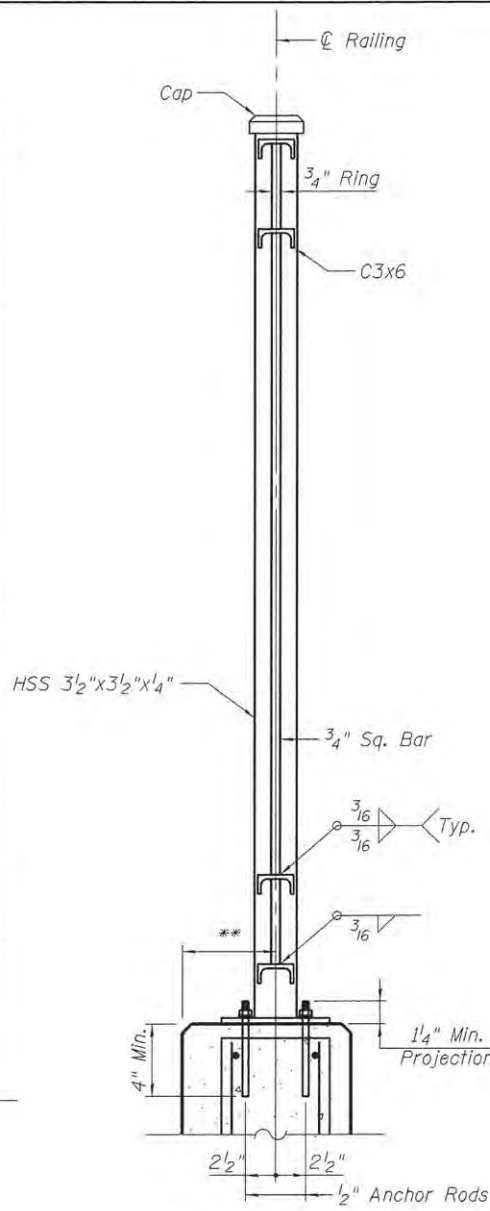
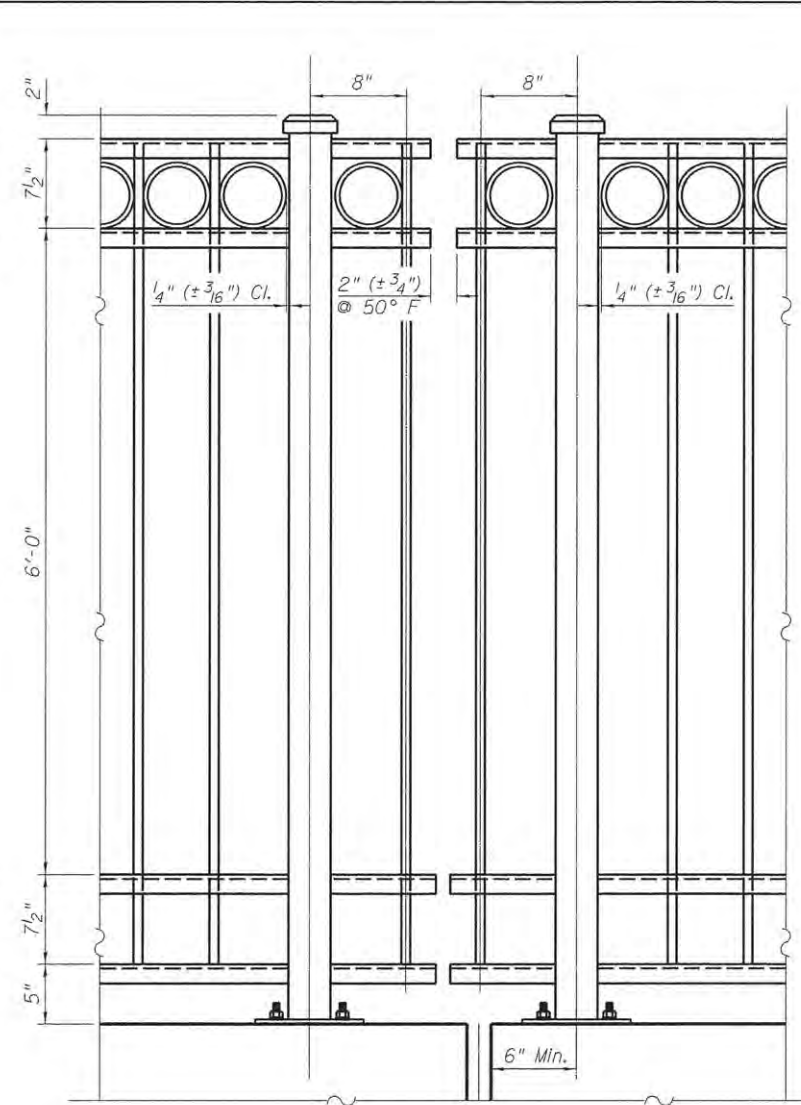
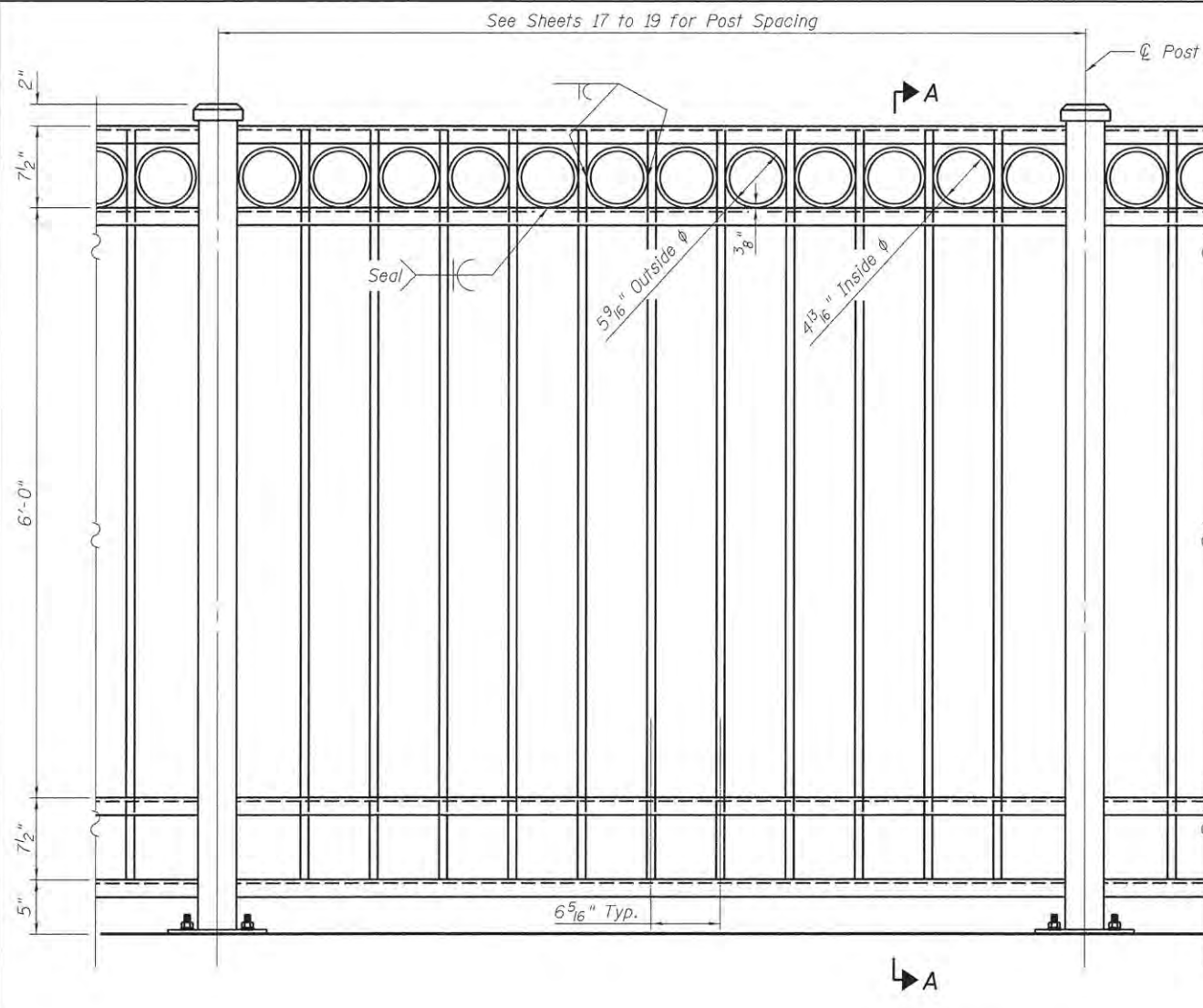


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		CHECKED -	MAF	REVISED -	
PLOT SCALE =	0.083333 1/ in.	DRAWN -	RAH	REVISED -	
PLOT DATE =	11/13/2015	CHECKED -	MAF	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK DRAINAGE SYSTEM DETAILS (SHEET 3 OF 3)**  
**STRUCTURE 048-9928**  
SHEET NO. 30 OF 48 SHEETS

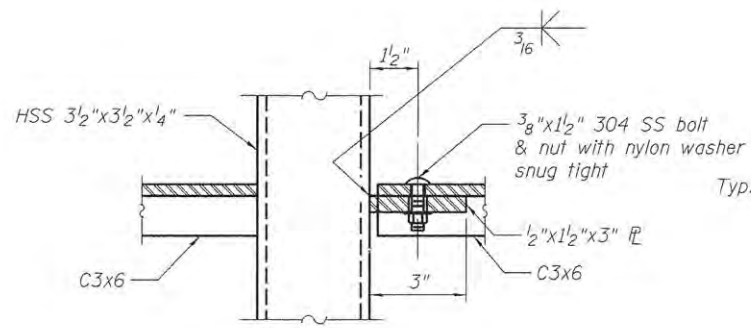
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	110
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				



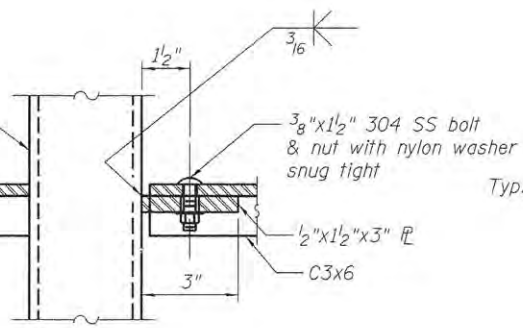
**ELEVATION**

**NOTES**

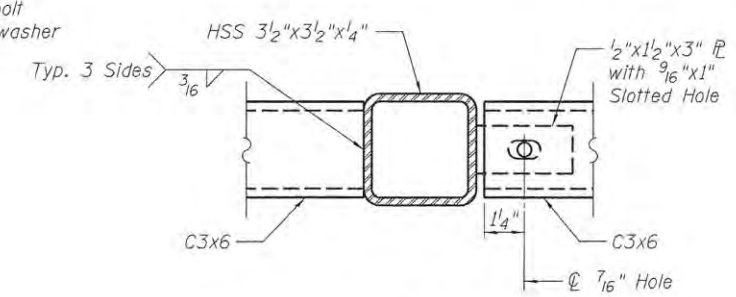
- Hollow structural steel tubing shall conform to the requirements of ASTM Designation A500, Grade B and 3/4" dia. rings shall be ASTM Designation A53.
- All other steel shapes and plates shall conform to the requirements of AASHTO M270 Grade 36.
- Posts, railings and plates shall be galvanized after 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 F1554M 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.
- Lock washers shall be ASTM F352 Stainless Steel.
- Hex nuts shall be ASTM F594 Stainless Steel.



**SHOP CONNECTION**

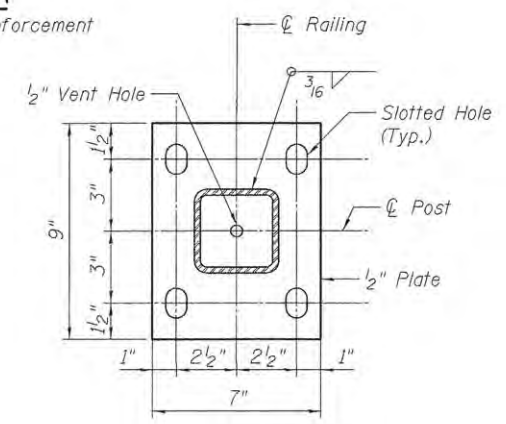


**FIELD CONNECTION**



**PLAN**

**PLAN RAIL TO POST CONNECTION DETAILS**



**BASE PLATE**

**BILL OF MATERIAL**

Item	Unit	Quantity
Fence (Special)	Foot	446

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

Path: \\spi-svr206.hanson.dom\hanson\_projects\documents\09\jobs\09\0105\CAD-Phase1\Struct\Sheet\0409\0105-Fence\_Details

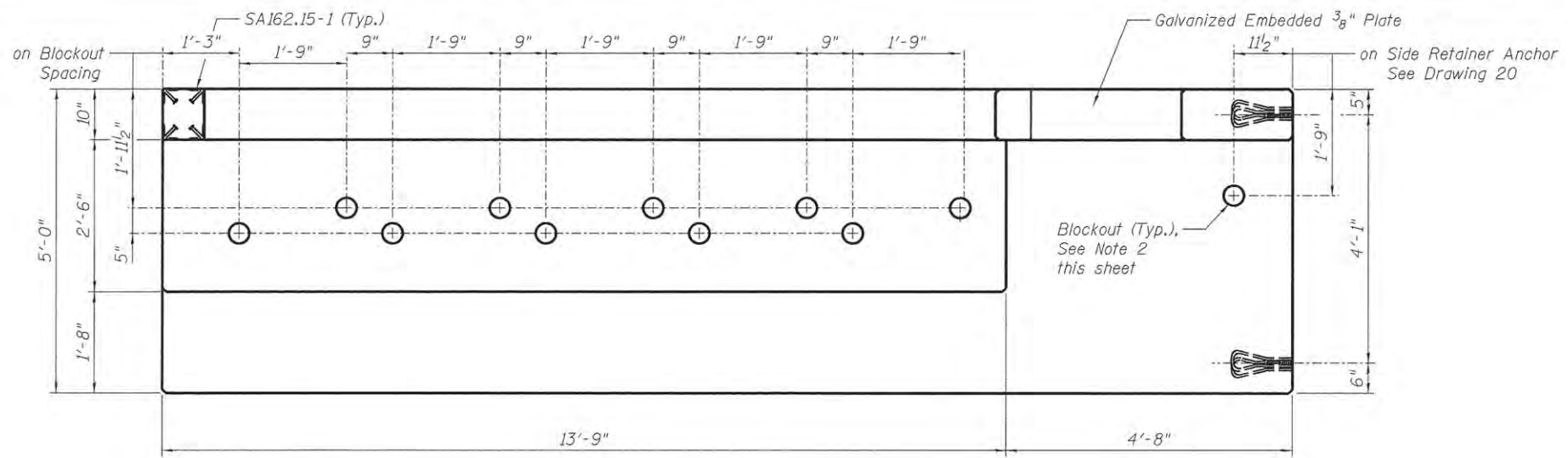


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PLOT DATE = 11/13/2015	DRAWN - GTJ	REVISION -
	CHECKED - MAF	REVISION -

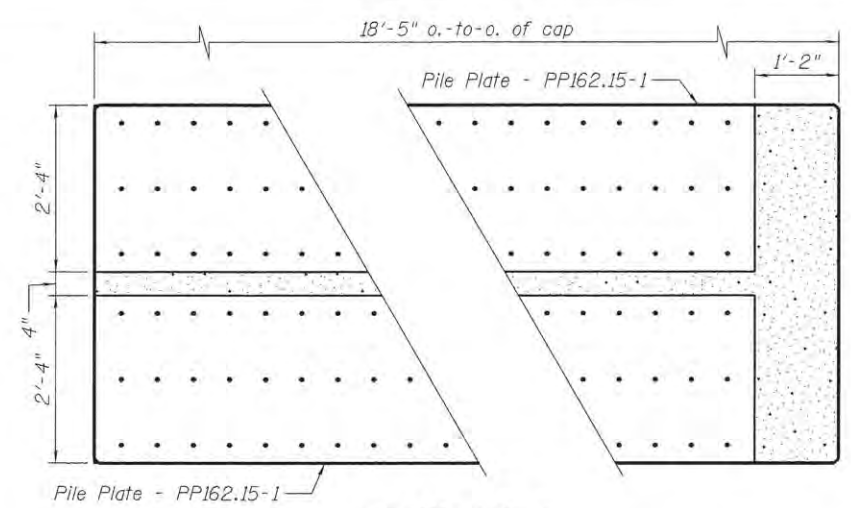
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FENCE DETAILS  
 STRUCTURE 048-9928**  
 SHEET NO. 31 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	111
CONTRACT NO. 89417				
ILLINOIS FED. AID PROJECT				

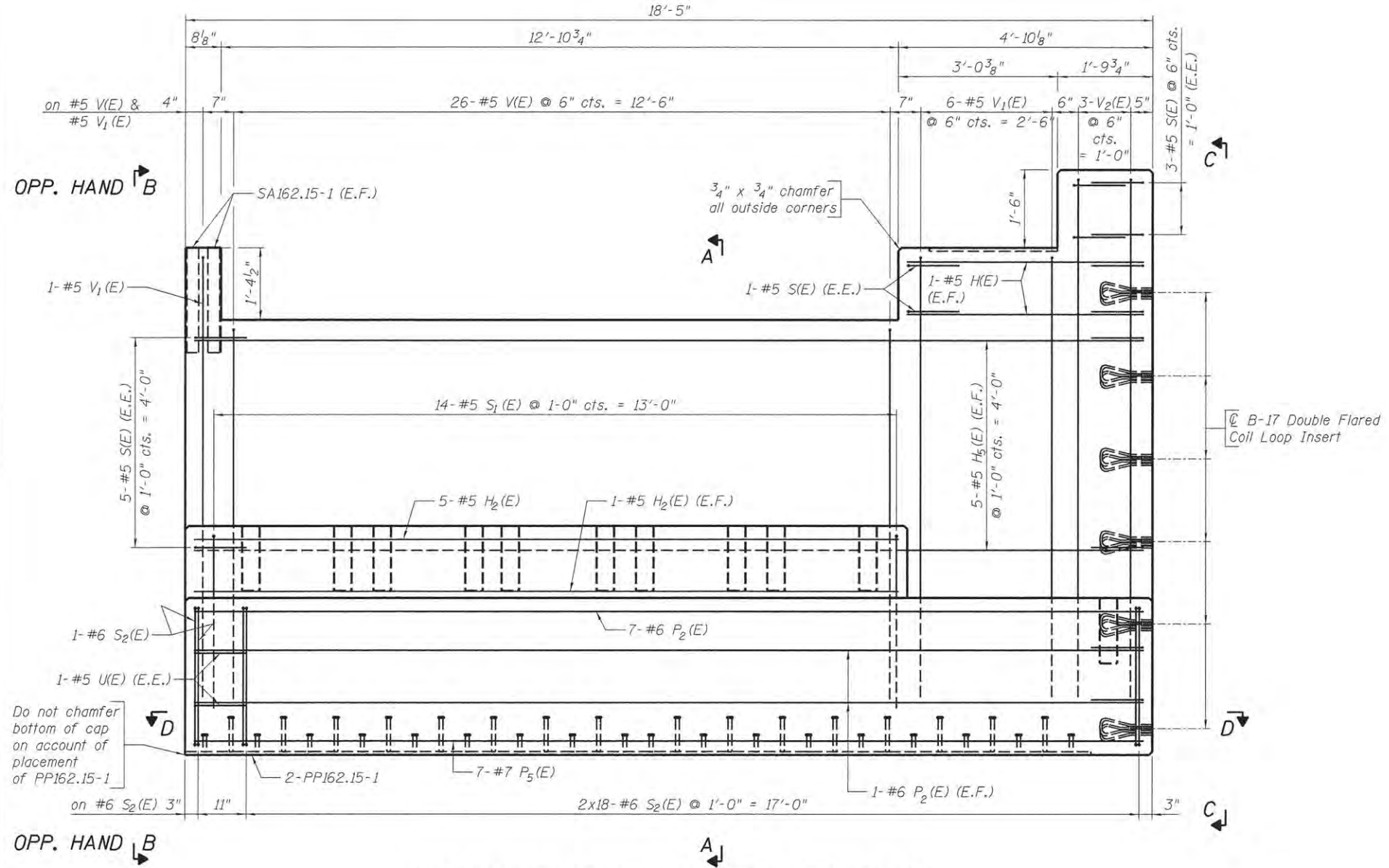


**PLAN**



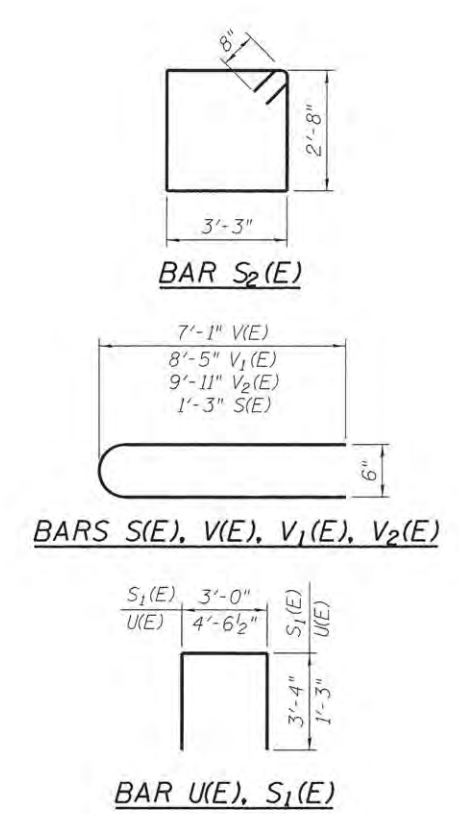
**SECTION D-D**  
Reinforcement not shown for clarity

- Notes:**
1. See Sheet 38 for general notes, Section A-A and Views B-B & C-C.
  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.
  4. E.F. denotes Each Face, B.F. denotes Back Face, F.F. denotes Front Face, E.E. denotes Each End.



**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"	—
H <sub>2</sub> (E)	7	#5	13'-5"	—
H <sub>3</sub> (E)	10	#5	18'-1"	—
P <sub>2</sub> (E)	11	#6	18'-1"	—
P <sub>5</sub> (E)	7	#7	18'-1"	—
S(E)	20	#5	2'-9"	□
S <sub>1</sub> (E)	14	#5	9'-8"	□
S <sub>2</sub> (E)	38	#6	13'-2"	□
U(E)	4	#5	7'-0 1/2"	□
V(E)	26	#5	14'-5"	□
V <sub>1</sub> (E)	7	#5	17'-1"	□
V <sub>2</sub> (E)	3	#5	20'-1"	□
STRUCTURAL STEEL				
8	1 1/4" x 12" DAYTON SUPERIOR B-17 DOUBLE FLARED COIL LOOP INSERT 1 1/4" x 12" LONG, 13,500 LB. SWL (SAFE WORKING LOAD), PLAIN			
2	PILE PLATE PP162.15-1 (SEE DETAIL, SH. 41)			
1	EMBEDDED COVER BEARING PLATE (SEE DETAIL SH. 20)			
4	EMBEDDED ANGLE SA162.15-1 (SEE DETAIL SH. 41)			
6	1 1/4" DIA. x 17" SPIRAL BOLT			

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

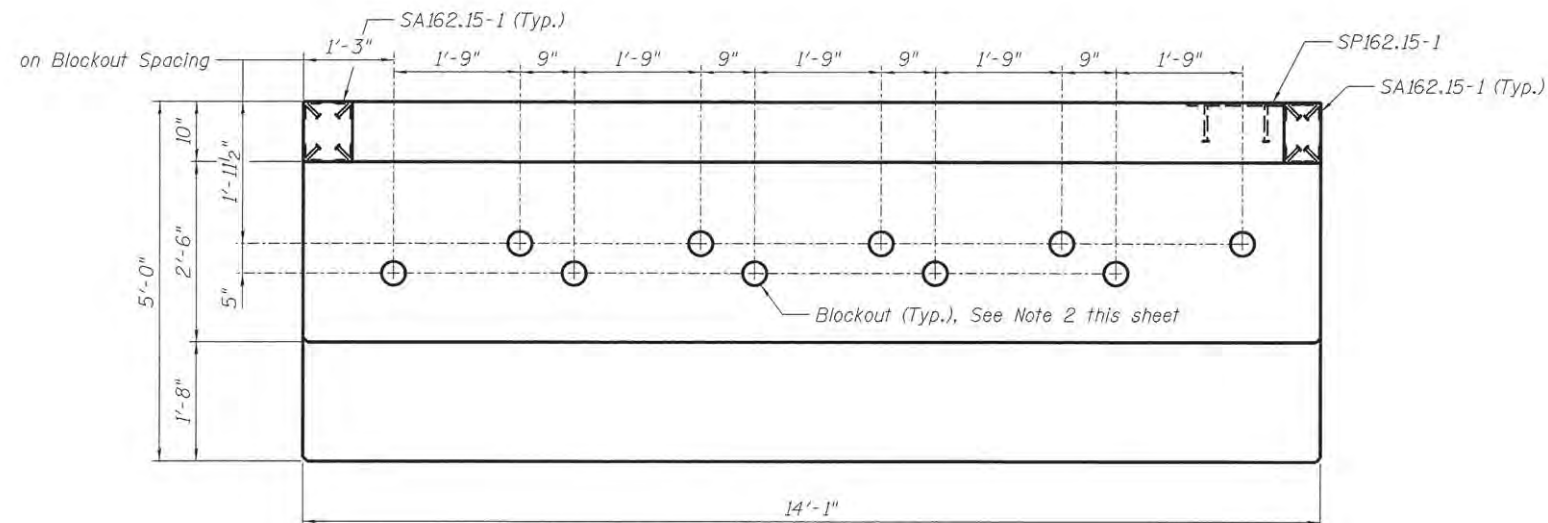
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PLLOT DATE = 11/13/2015	DRAWN - GTJ	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

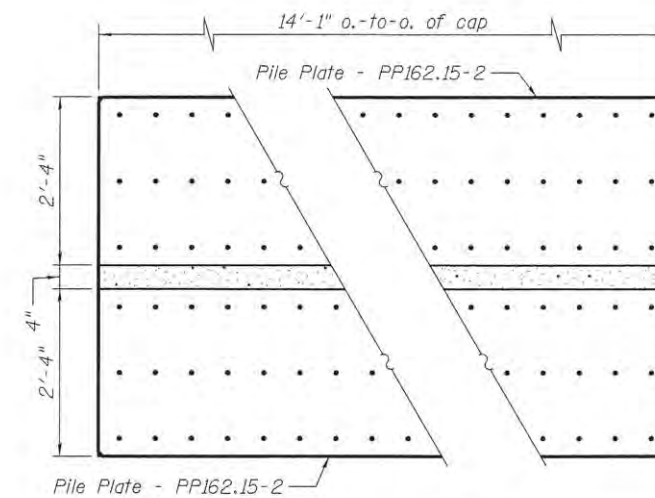
**PRECAST ABUTMENT CAP - PC162.15-1  
STRUCTURE 048-9928**

SHEET NO. 32 OF 48 SHEETS

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



**PLAN**

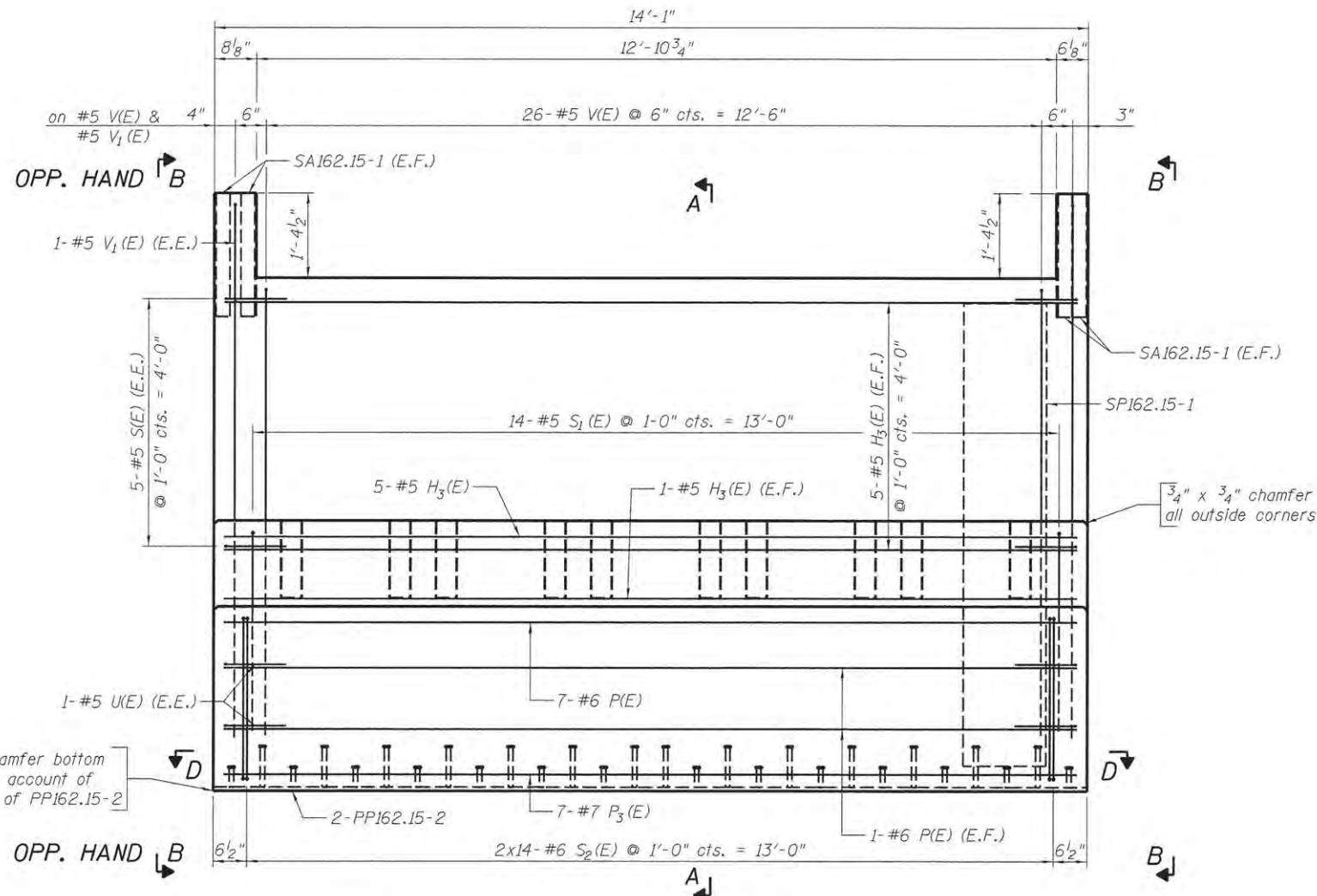


**SECTION D-D**

Reinforcement not shown for clarity

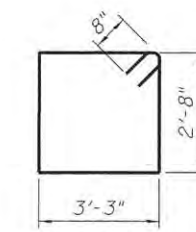
**Notes:**

1. See Sheet 38 for general notes, Section A-A and Views B-B & C-C.
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.
4. E.F. denotes Each Face, B.F. denotes Back Face, F.F. denotes Front Face, E.E. denotes Each End.

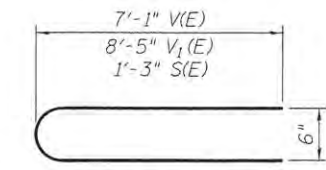


**PRECAST ABUTMENT CAP - PC162.15-2 (2 REQ'D.)**

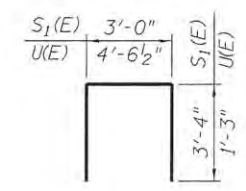
Wt. = 50,500 lbs., Vol. = 11.8 cu. yds., Reinf. Steel = 1,850 lbs.



**BAR S<sub>2</sub>(E)**



**BARS S(E), V(E), V<sub>1</sub>(E)**



**BAR U(E), S<sub>1</sub>(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
H <sub>3</sub> (E)	17	#5	13'-9"	—
P(E)	11	#6	13'-9"	—
P <sub>3</sub> (E)	7	#7	13'-9"	—
S(E)	10	#5	2'-9"	U
S <sub>1</sub> (E)	14	#5	9'-8"	U
S <sub>2</sub> (E)	28	#6	13'-2"	□
U(E)	4	#5	7'-0 1/2"	U
V(E)	26	#5	14'-5"	—
V <sub>1</sub> (E)	2	#5	17'-1"	—
STRUCTURAL STEEL				
1	PLATE SP162.15-1 (SEE DETAIL, SH. 41)			
8	EMBEDDED ANGLE SA162.15-1 (SEE DETAIL SH. 41)			
2	PILE PLATE PP162.15-2 (SEE DETAIL SH. 41)			

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"=1'-0"  
 PLOT DATE = 11/13/2015

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

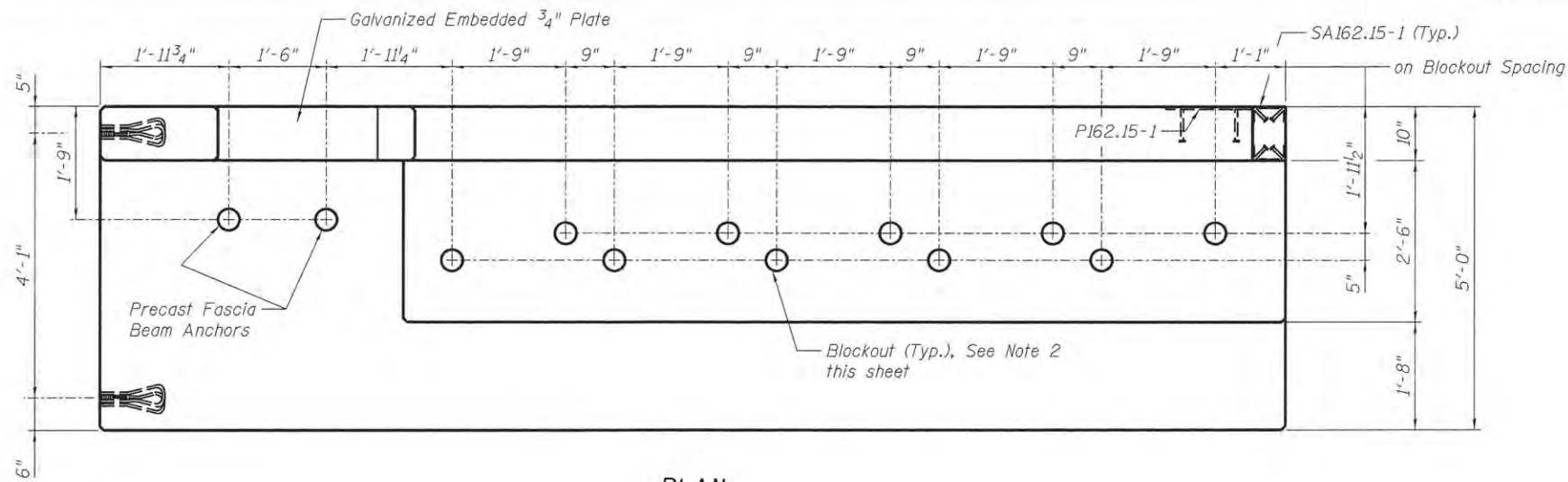
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 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

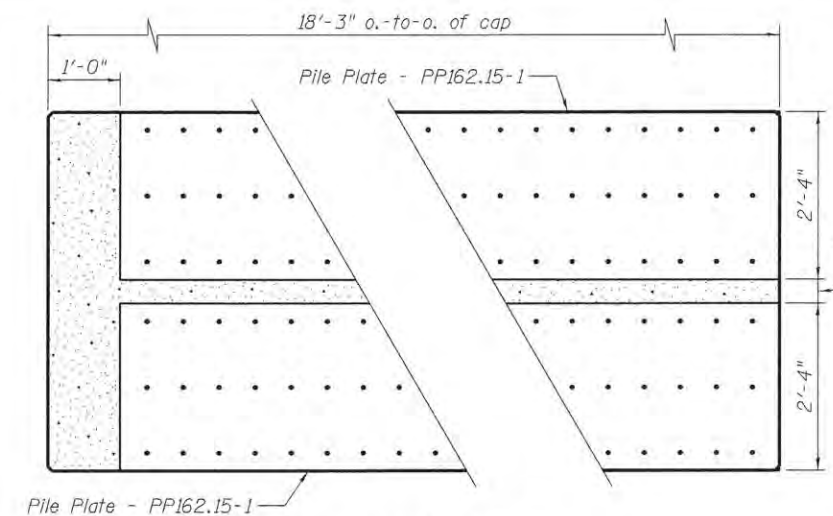
**PRECAST ABUTMENT CAP - PC162.15-2  
 STRUCTURE 048-9928**

SHEET NO. 33 OF 48 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	113
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				



PLAN

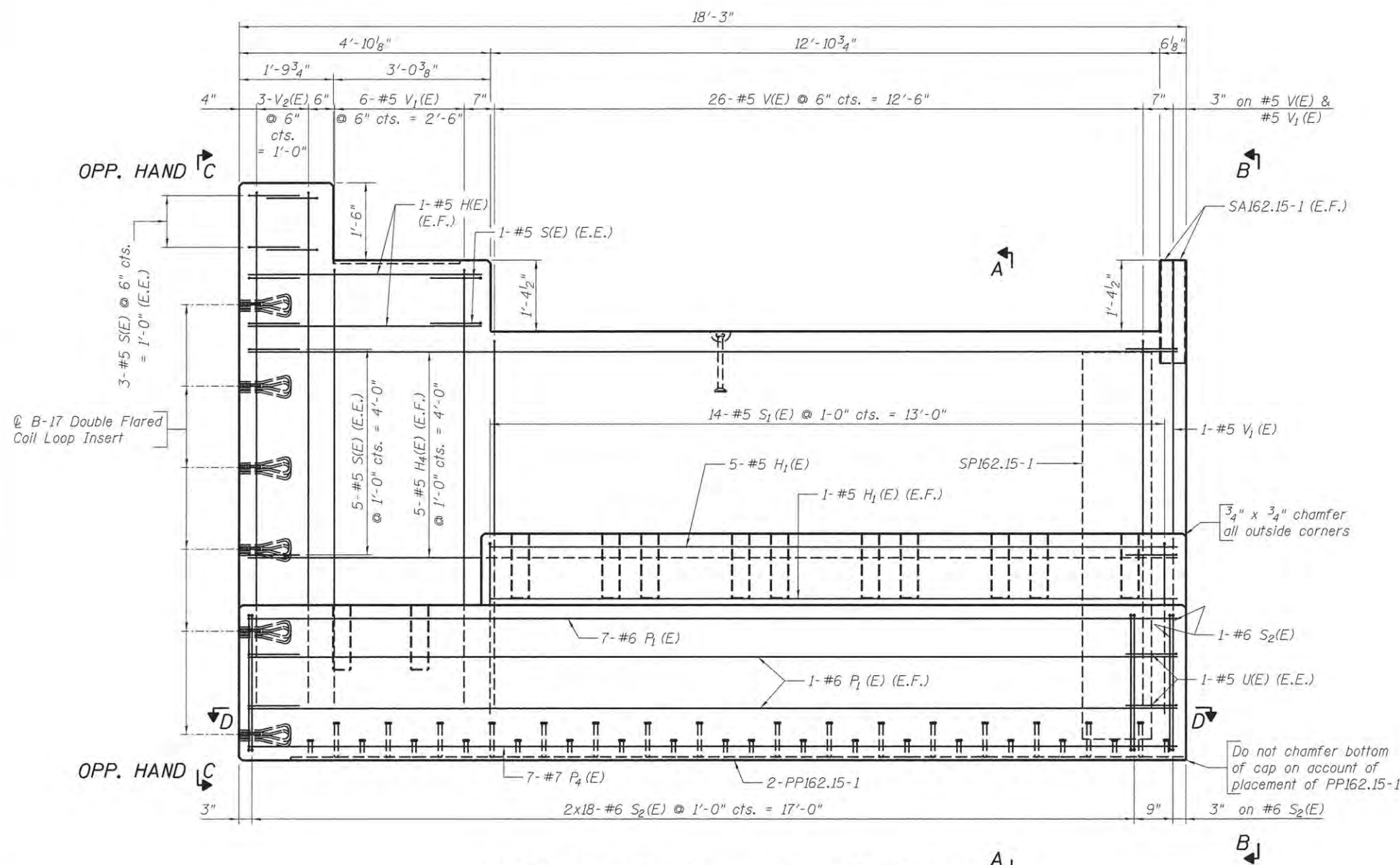


SECTION D-D

Reinforcement not shown for clarity

Notes:

1. See Sheet 38 for general notes, Section A-A and Views B-B & C-C.
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.
4. E.F. denotes Each Face, B.F. denotes Back Face, F.F. denotes Front Face, E.E. denotes Each End.



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

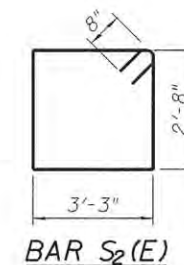
Wt. = 64,000 lbs., Vol. = 15.0 cu. yds., Reinf. Steel = 2,420 lbs.

BILL OF MATERIAL

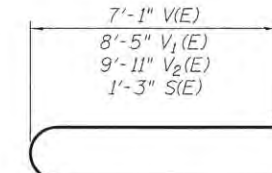
Bar	No.	Size	Length	Shape
H(E)	4	#5	4'-6"	—
H1(E)	7	#5	13'-3"	—
H4(E)	10	#5	17'-11"	—
P1(E)	11	#6	17'-11"	—
P4(E)	7	#7	17'-11"	—
S(E)	20	#5	2'-9"	□
S1(E)	14	#5	9'-8"	□
S2(E)	38	#6	13'-2"	□
U(E)	4	#5	7'-0 1/2"	□
V(E)	26	#5	14'-5"	□
V1(E)	7	#5	17'-1"	□
V2(E)	3	#5	20'-1"	□

STRUCTURAL STEEL

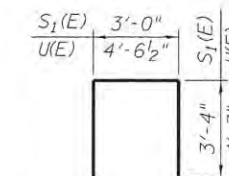
8	1 1/4" x 12" DAYTON SUPERIOR B-17 DOUBLE FLARED COIL LOOP INSERT 1 1/4" x 12" LONG, 13,500 LB. SWL (SAFE WORKING LOAD), PLAIN
1	PLATE SPI62.15-1 (SEE DETAIL, SH. 41)
2	PILE PLATE PP162.15-1 (SEE DETAIL, SH. 41)
1	EMBEDDED ANCHOR PLATE (SEE DETAIL SH. 20)
4	EMBEDDED ANGLE SA162.15-1 (SEE DETAIL SH. 41)
6	1 1/4" DIA. X 17" SPIRAL BOLT



BAR S2(E)



BARS S(E), V(E), V1(E), V2(E)



BAR U(E), S1(E)

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



USER NAME	= andr00846
PLOT SCALE	= 1/4"=1'-0"
PLOT DATE	= 11/13/2015

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

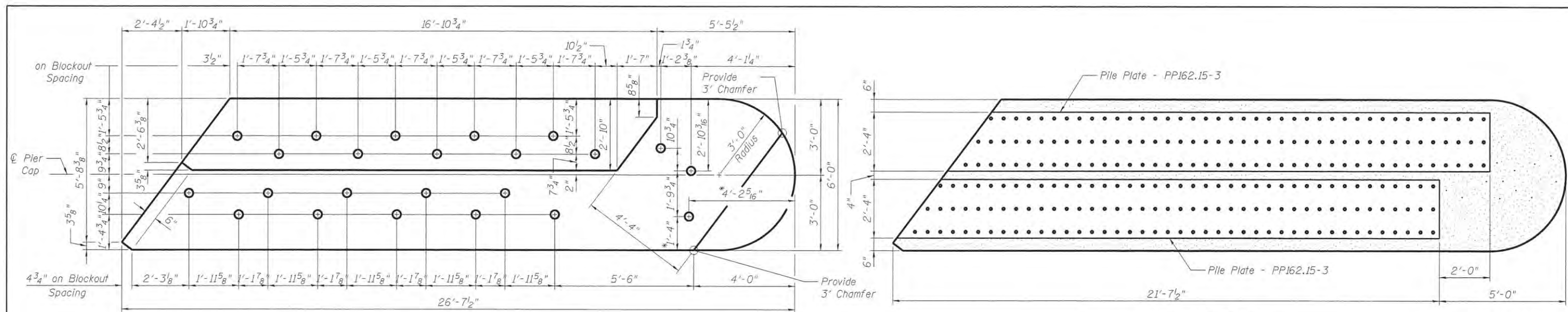
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REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 34 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-G5	KNOX	216	114
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				

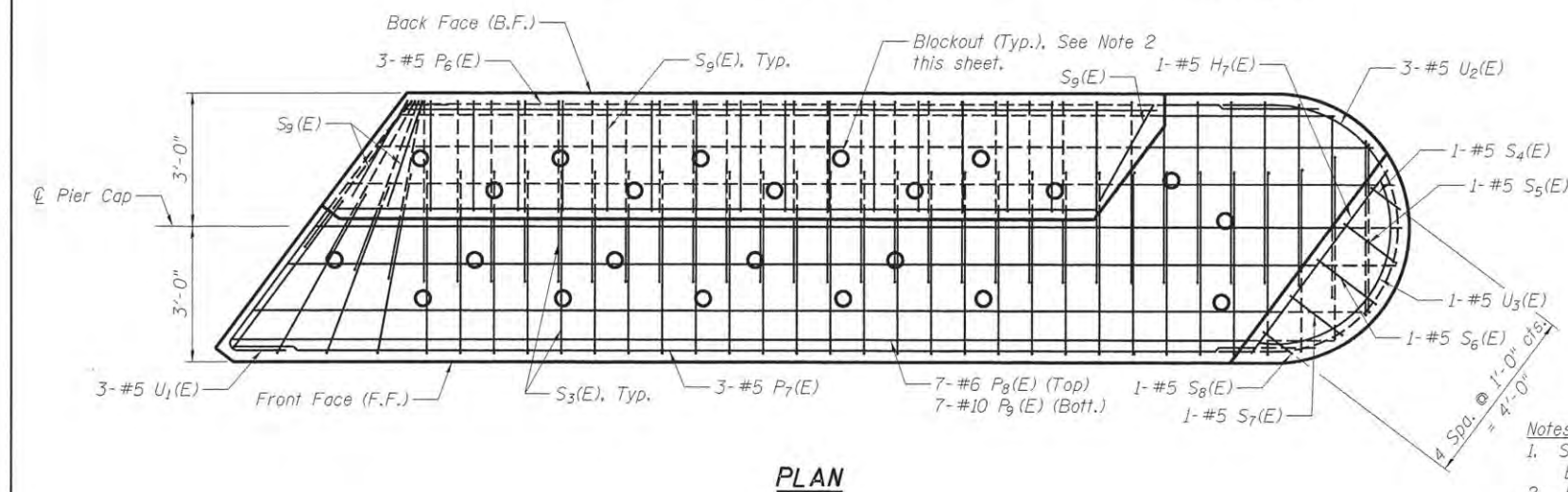


**PLAN - BLOCKOUT LOCATIONS**

\* Side Retainer Anchor Location  
See Drawing 20

**SECTION F-F**

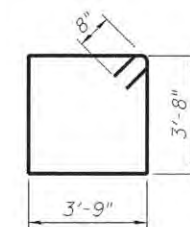
Reinforcement not shown for clarity



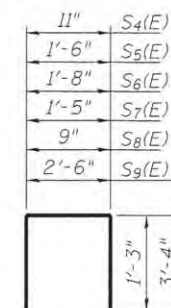
**PLAN**

Notes:

- See Sheet 38 for general notes, Section A-A and Views B-B & C-C.
- 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.
- E.F. denotes Each Face, B.F. denotes Back Face, F.F. denotes Front Face, E.E. denotes Each End.



**BAR S3(E)**



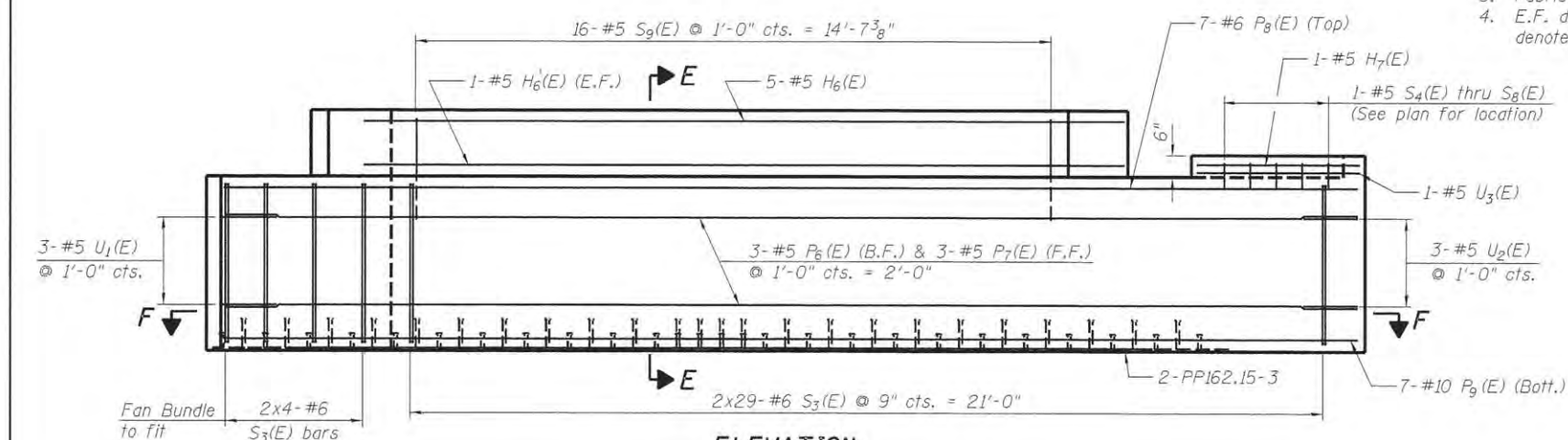
**BAR S4(E), S5(E), S6(E), S7(E), S8(E), S9(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
H6(E)	7	#5	17'-4"	—
H7(E)	1	#5	5'-2"	—
P6(E)	3	#5	19'-3"	—
P7(E)	3	#5	23'-2"	—
P8(E)	7	#6	24'-10"	—
P9(E)	7	#10	24'-10"	—

S3(E)	66	#6	16'-2"	□
S4(E)	1	#5	3'-5"	U
S5(E)	1	#5	4'-0"	U
S6(E)	1	#5	4'-2"	U
S7(E)	1	#5	3'-11"	U
S8(E)	1	#5	3'-3"	U
S9(E)	19	#5	9'-2"	U
U1(E)	3	#5	8'-10"	C
U2(E)	3	#5	11'-3"	C
U3(E)	1	#5	6'-6"	C

STRUCTURAL STEEL				
2			PILE PLATE PP162.15-3 (SEE DETAIL, SH. 41)	

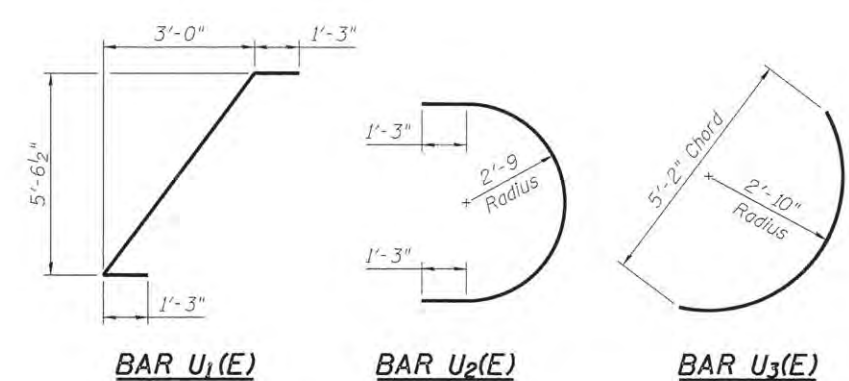


**ELEVATION**

(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	5-23-15

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USER NAME	= brent00993
PLOT SCALE	= 4:0.0000 '1' / in.
PLOT DATE	= 5/9/2016

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

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REVISED	-
REVISED	-
REVISED	-

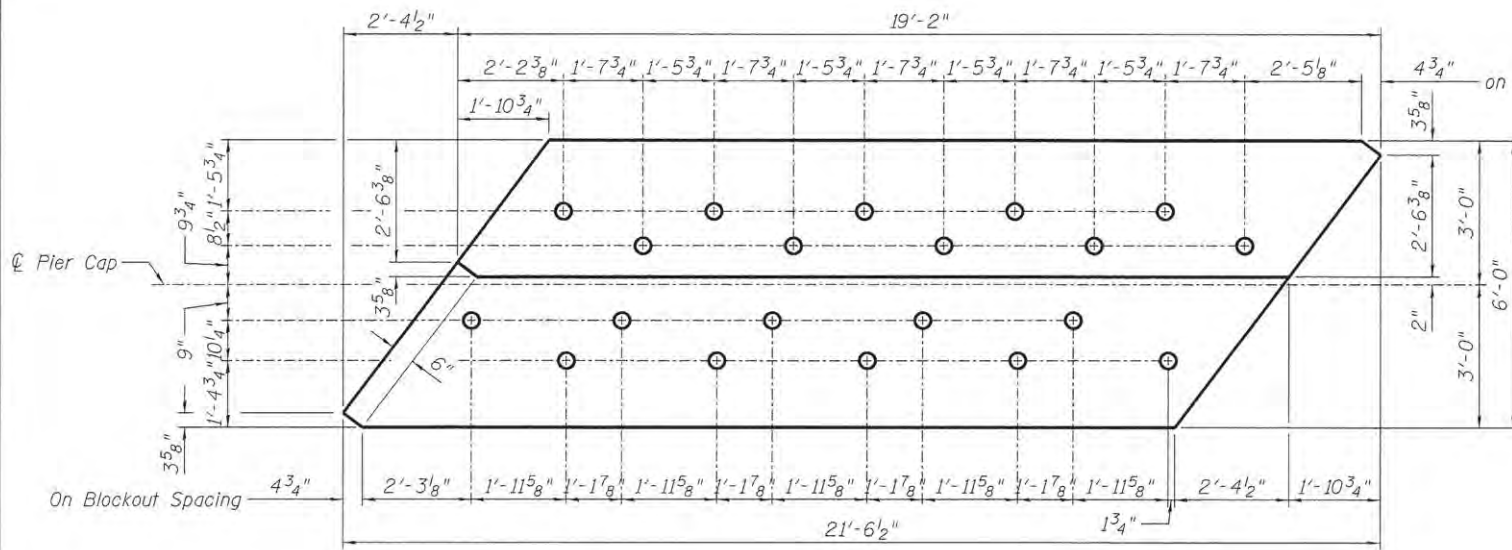
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

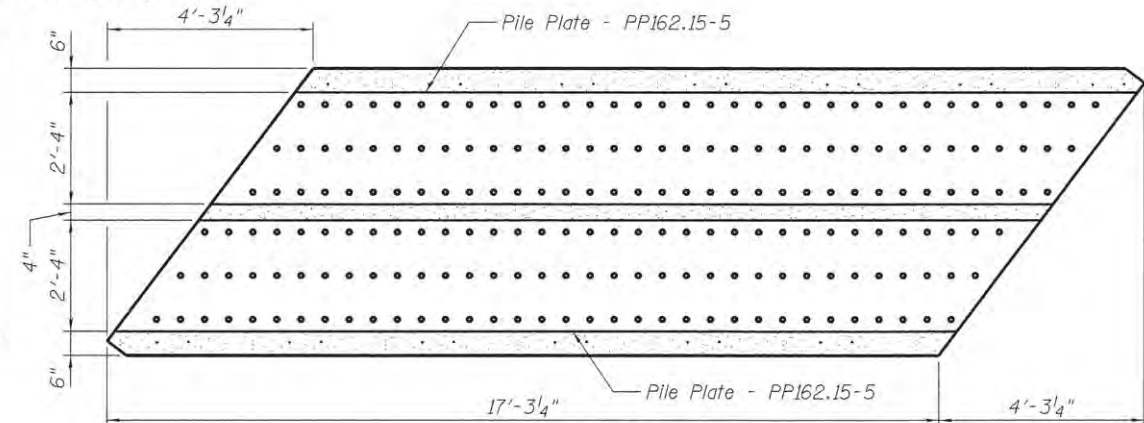
SHEET NO. 35 OF 48 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	115
CONTRACT NO. 89417				

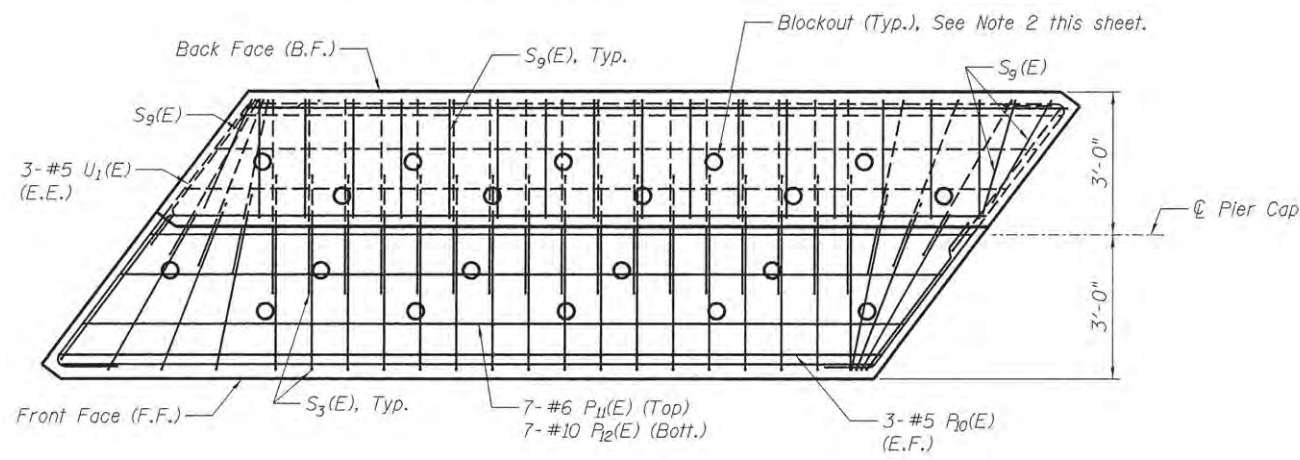
ILLINOIS FED. AID PROJECT



PLAN - BLOCKOUT LOCATIONS



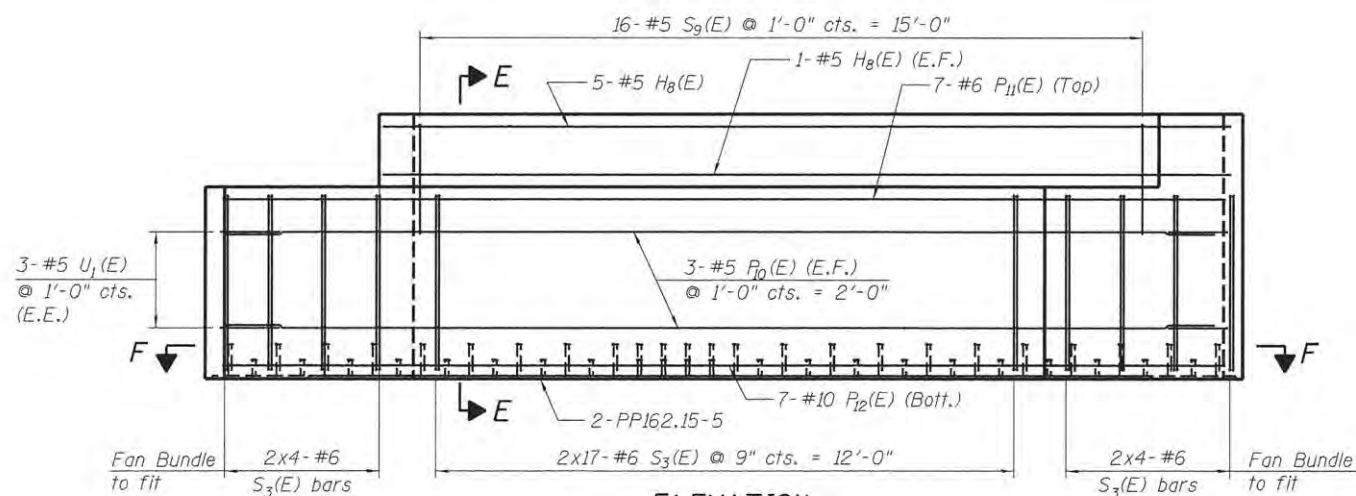
SECTION F-F  
Reinforcement not shown for clarity



PLAN

BILL OF MATERIAL

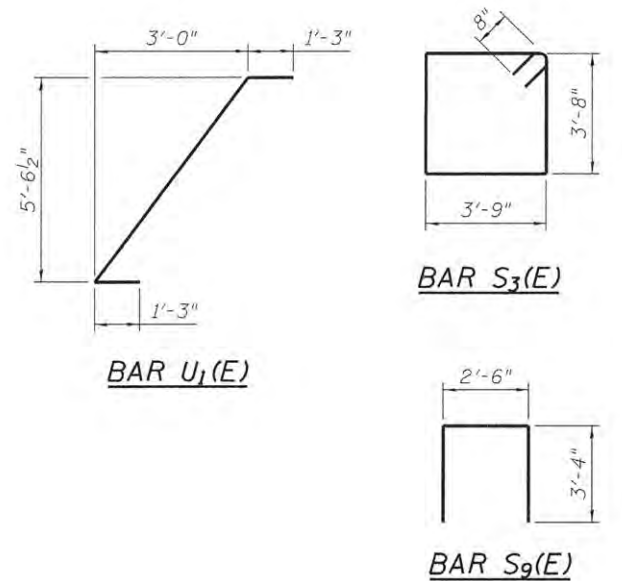
Bar	No.	Size	Length	Shape
H <sub>8</sub> (E)	7	#5	16'-7"	—
P <sub>10</sub> (E)	6	#5	17'-3"	—
P <sub>11</sub> (E)	7	#6	17'-3"	—
P <sub>12</sub> (E)	7	#10	17'-3"	—
S <sub>3</sub> (E)	50	#6	16'-2"	□
S <sub>9</sub> (E)	19	#5	9'-2"	□
U <sub>1</sub> (E)	6	#5	8'-10"	⊂
STRUCTURAL STEEL				
2	PILE PLATE PP162.15-5 (SEE DETAIL, SH. 41)			



ELEVATION

PRECAST PIER CAP - PC162.15-5 (2 REQ'D.)  
Wt. = 75,500 lbs., Vol. = 18.0 cu. yds., Reinf. Steel = 2,390 lbs.

- Notes:
- See Sheet 38 for general notes, Section A-A and Views B-B & C-C.
  - 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.
  - E.F. denotes Each Face, B.F. denotes Back Face, F.F. denotes Front Face, E.E. denotes Each End.



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

prj\\spi-svr306.hanson.dom\hanson\_projects\Documents\09Jobs\09L0105\CAD-Phase1\Struct\Sheet\0409L0105-PreCastPierCap.PC162.15-5



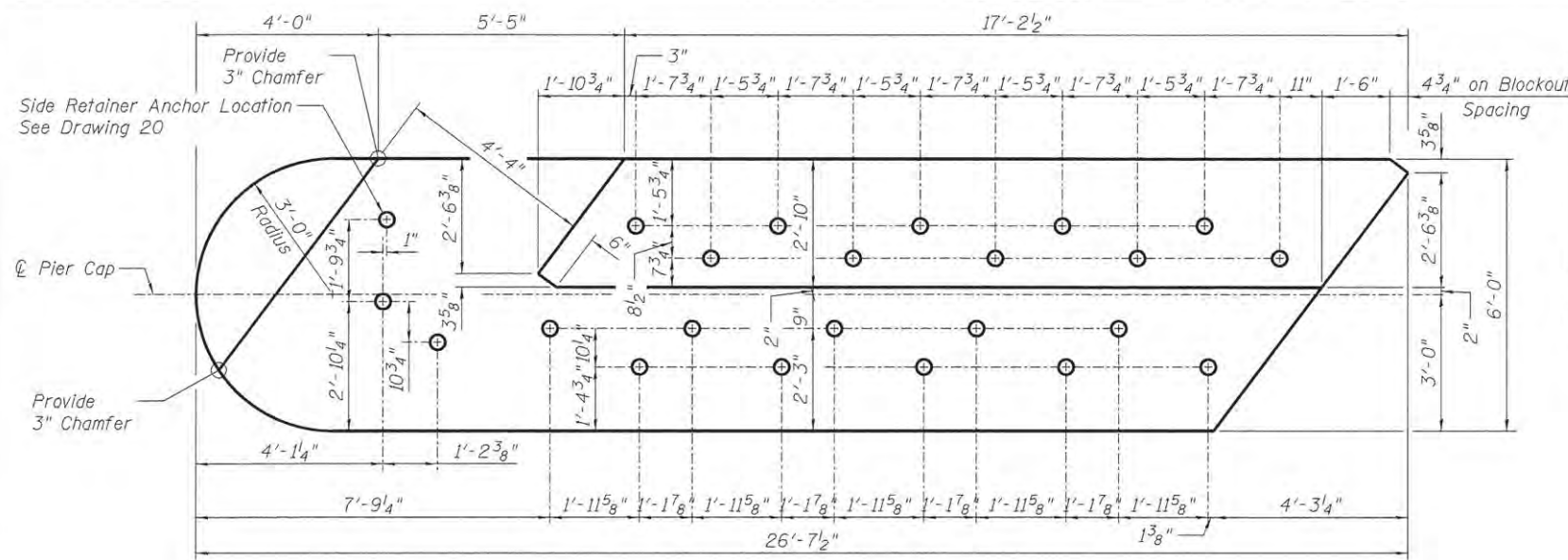
USER NAME = andr-00846	DESIGNED - JEC	REVISD -
PLOT SCALE = 2:0.0000 '1' / in.	CHECKED - MAF	REVISD -
PLOT DATE = 11/13/2015	DRAWN - GTJ	REVISD -
	CHECKED - MAF	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

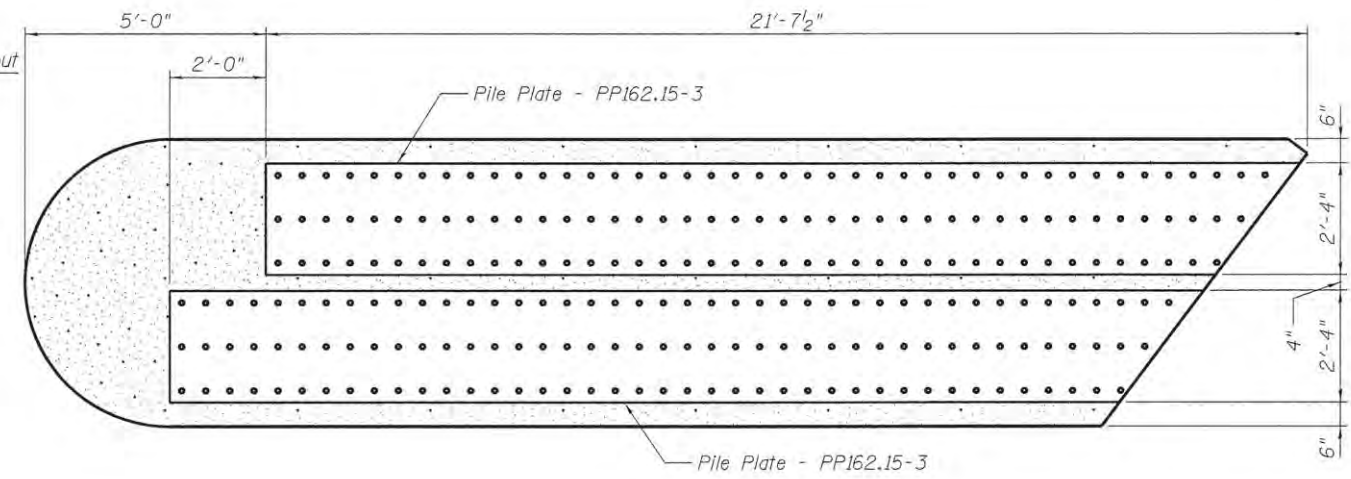
PRECAST PIER CAP - PC162.15-5  
STRUCTURE 048-9928  
SHEET NO. 36 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	116
			CONTRACT NO. 89417	
ILLINOIS FED. AID PROJECT				

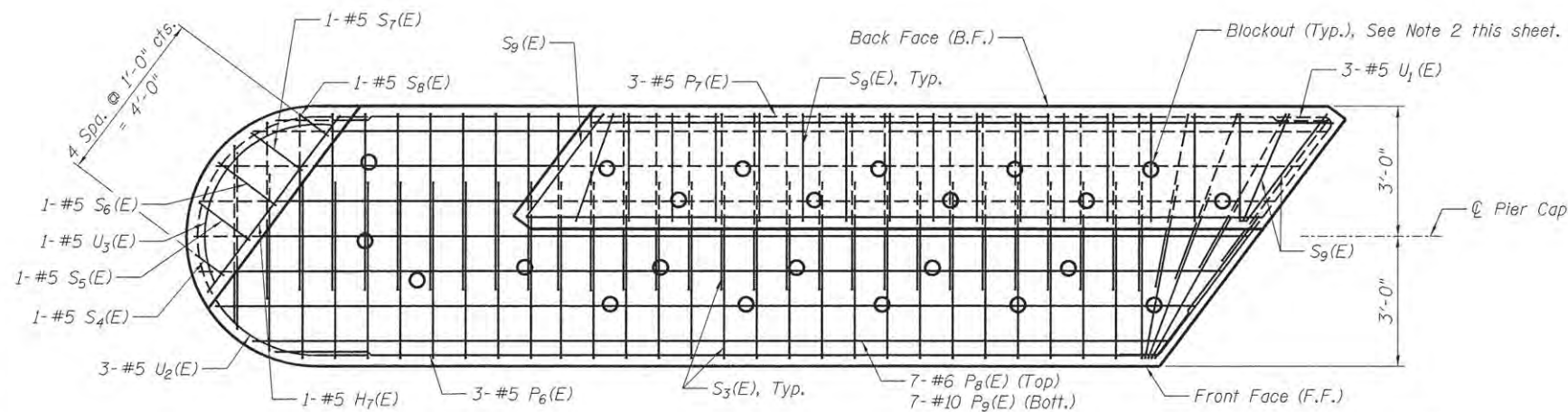




PLAN - BLOCKOUT LOCATIONS



SECTION F-F  
Reinforcement not shown for clarity



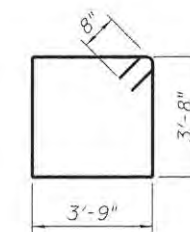
PLAN

Notes:

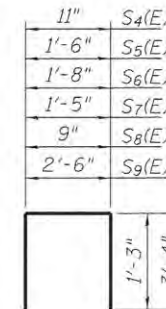
- See Sheet 38 for general notes, Section A-A and Views B-B & C-C.
- Blockouts shall be 4" dia. x 1'-3" CMP sleeves with 0.023" (24 gage) minimum thickness embedded in concrete for anchor bolts. Adjust reinforcement as necessary to clear sleeve.
- Fabricator shall provide lifting devices.
- E.F. denotes Each Face, B.F. denotes Back Face, F.F. denotes Front Face, E.E. denotes Each End.

BILL OF MATERIAL

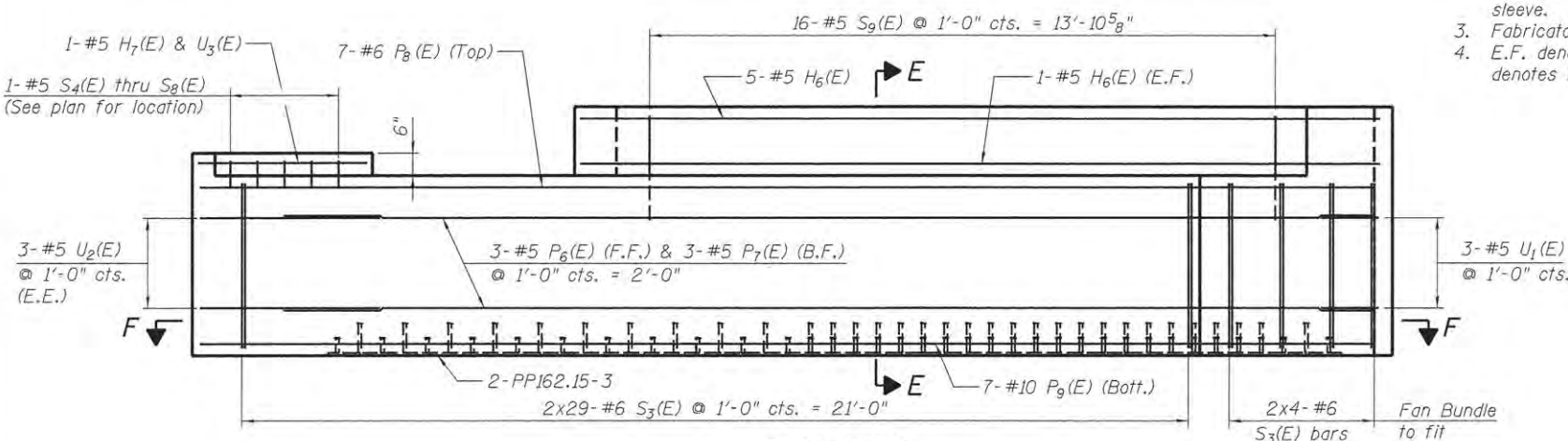
Bar	No.	Size	Length	Shape
H6(E)	7	#5	17'-4"	—
H7(E)	1	#5	4'-6"	—
P6(E)	3	#5	19'-3"	—
P7(E)	3	#5	23'-2"	—
P8(E)	7	#6	24'-10"	—
P9(E)	7	#10	24'-10"	—
S3(E)	66	#6	16'-2"	□
S4(E)	1	#5	3'-5"	U
S5(E)	1	#5	4'-0"	U
S6(E)	1	#5	4'-2"	U
S7(E)	1	#5	3'-11"	U
S8(E)	1	#5	3'-3"	U
S9(E)	19	#5	9'-2"	U
U1(E)	3	#5	8'-10"	C
U2(E)	3	#5	11'-3"	C
U3(E)	1	#5	6'-6"	C
STRUCTURAL STEEL				
2	PILE PLATE PPI62.15-3 (SEE DETAIL, SH. 41)			



BAR S3(E)



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

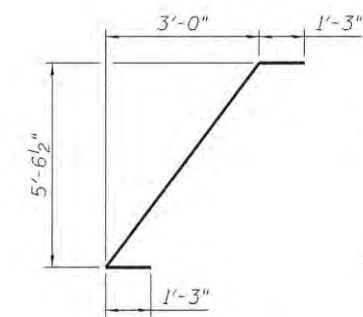


ELEVATION

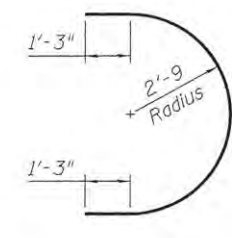
(Blockouts not shown for clarity)

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

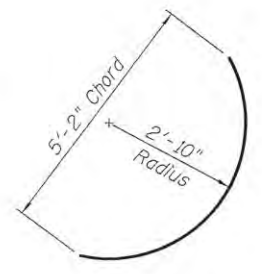
Wt. = 99,800 lbs., Vol. = 23.8 cu. yds., Reinf. Steel = 3,150 lbs.



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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USER NAME	= andr08846
DESIGNED	- JEC
CHECKED	- MAF
DRAWN	- GTJ
REVIEWED	- MAF
PLOT SCALE	= 2x0.0000 '1' / 1"
PLOT DATE	= 11/13/2015

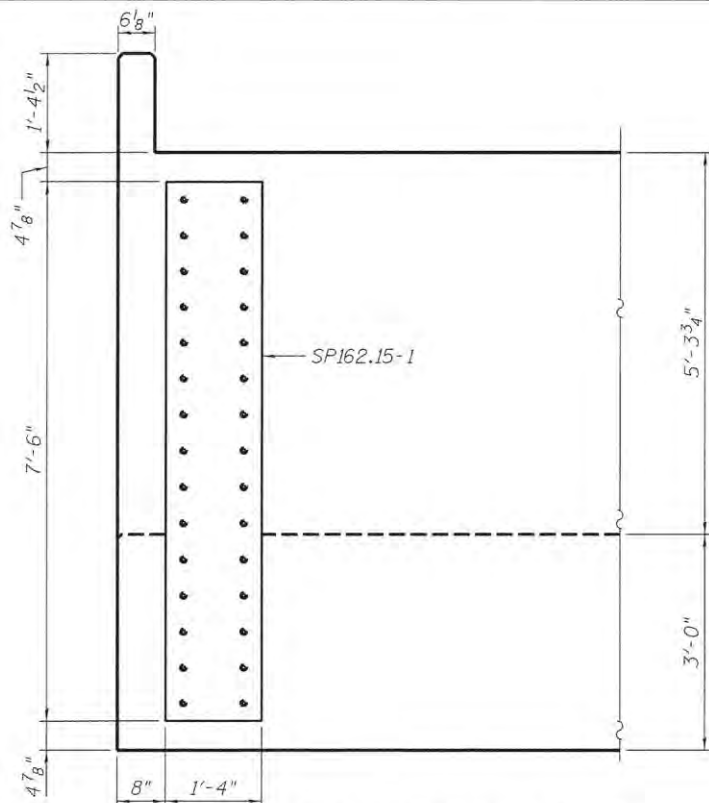
DESIGNED	- JEC	REVISED	-
CHECKED	- MAF	REVISED	-
DRAWN	- GTJ	REVISED	-
CHECKED	- MAF	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

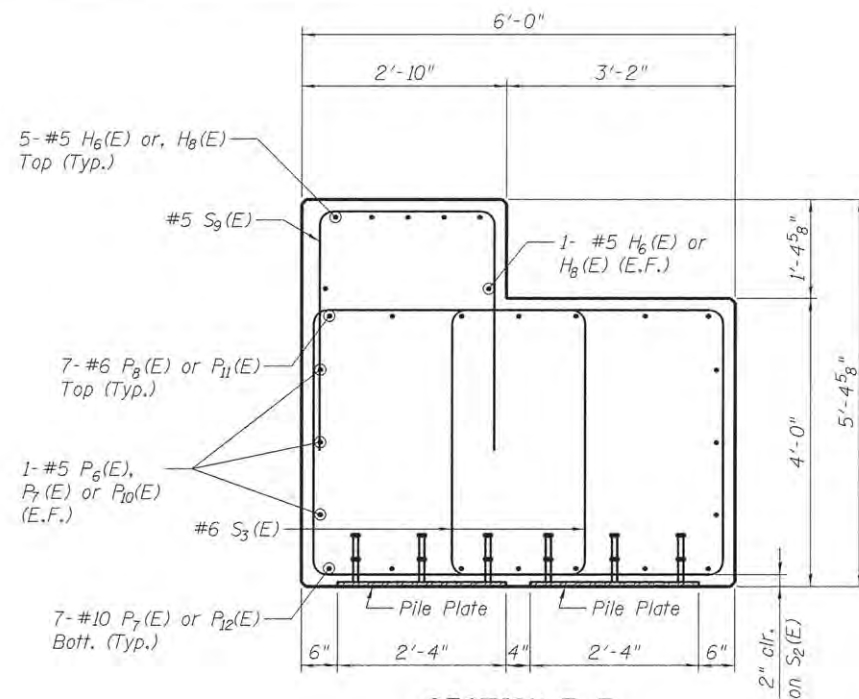
PRECAST PIER CAP - PC162.15-6  
STRUCTURE 048-9928

SHEET NO. 37 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	117
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				

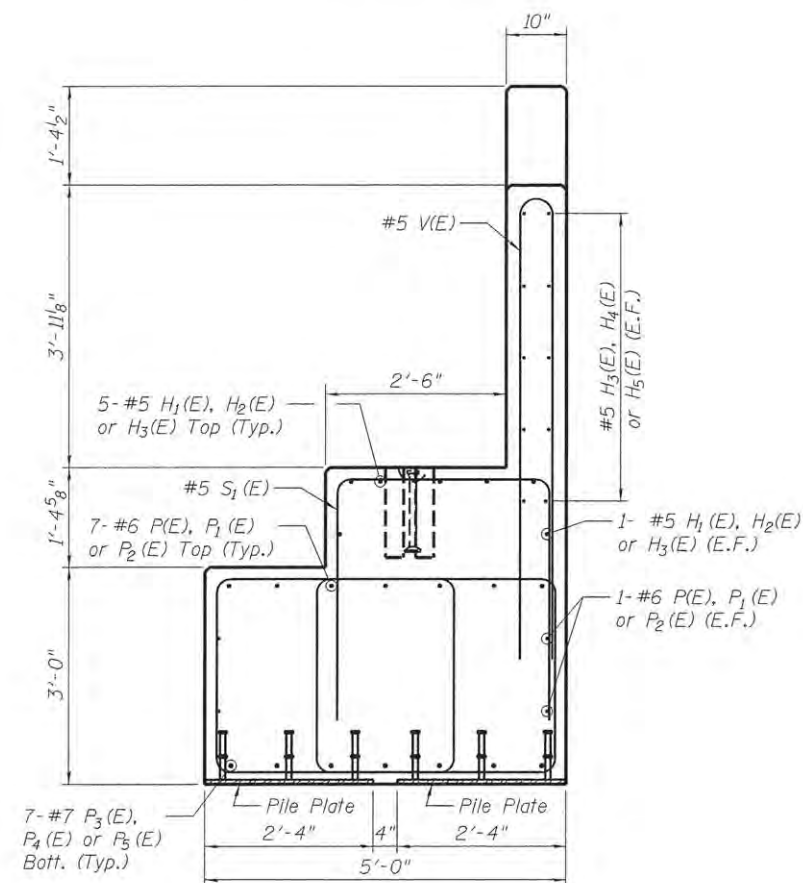


BACK FACE OF PC162.15-2 or -3



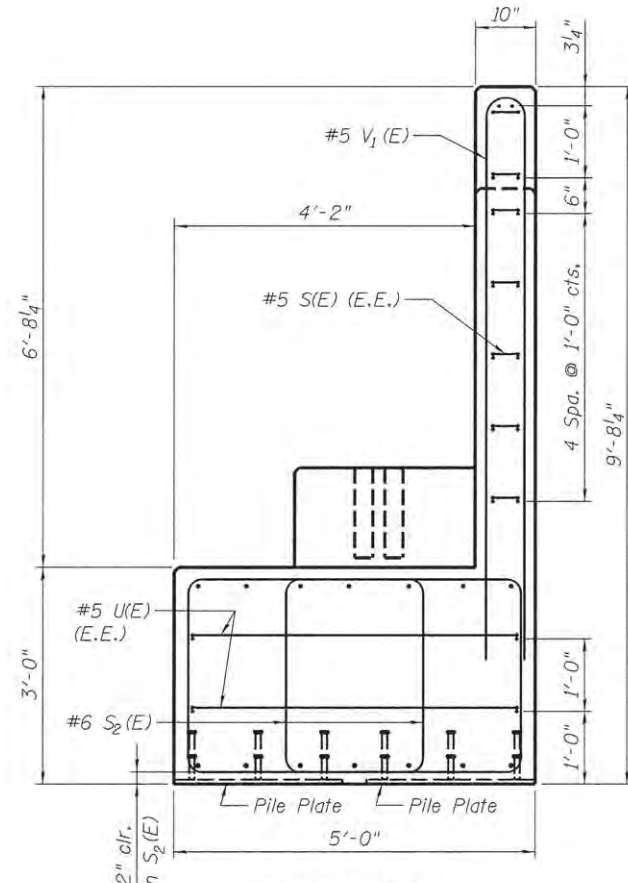
SECTION E-E

For further designation of horizontal bars see elevations of precast members



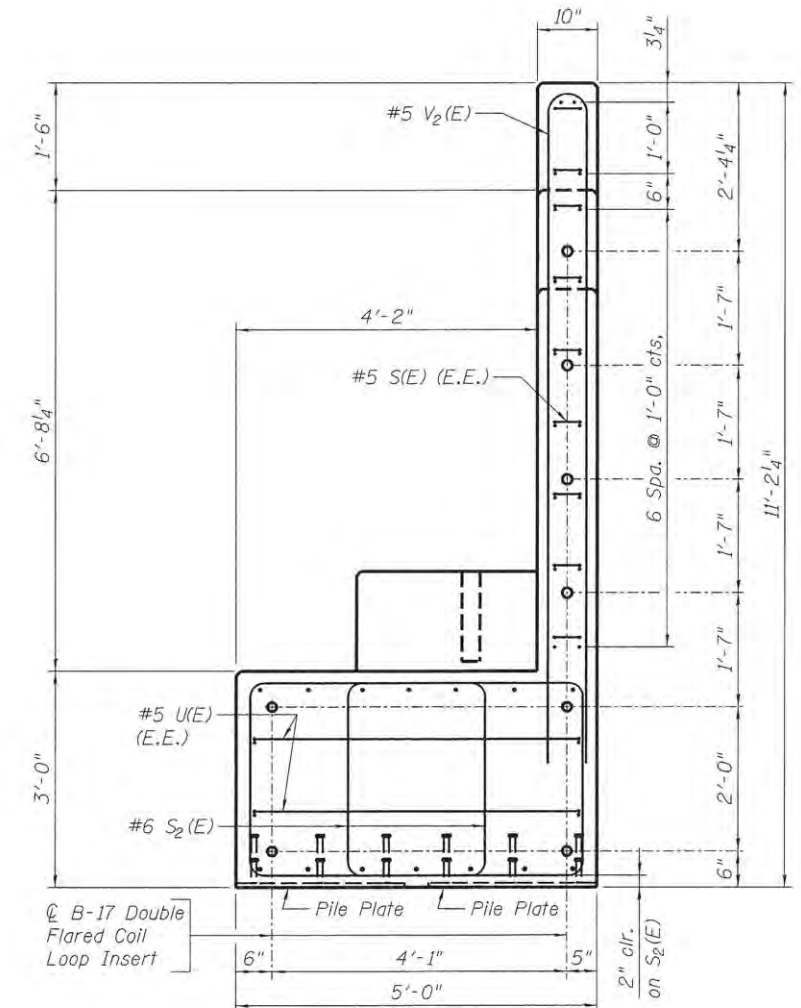
SECTION A-A

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  
Parapet Angles SA162.15-1 not shown for clarity



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 lb. 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	5-29-15

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USER NAME	= andar00846	DESIGNED	- JEC	REVISED	-
		CHECKED	- MAF	REVISED	-
PLOT SCALE	= 1/4"=1'-0"	DRAWN	- GTJ	REVISED	-
PLOT DATE	= 11/13/2015	CHECKED	- MAF	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

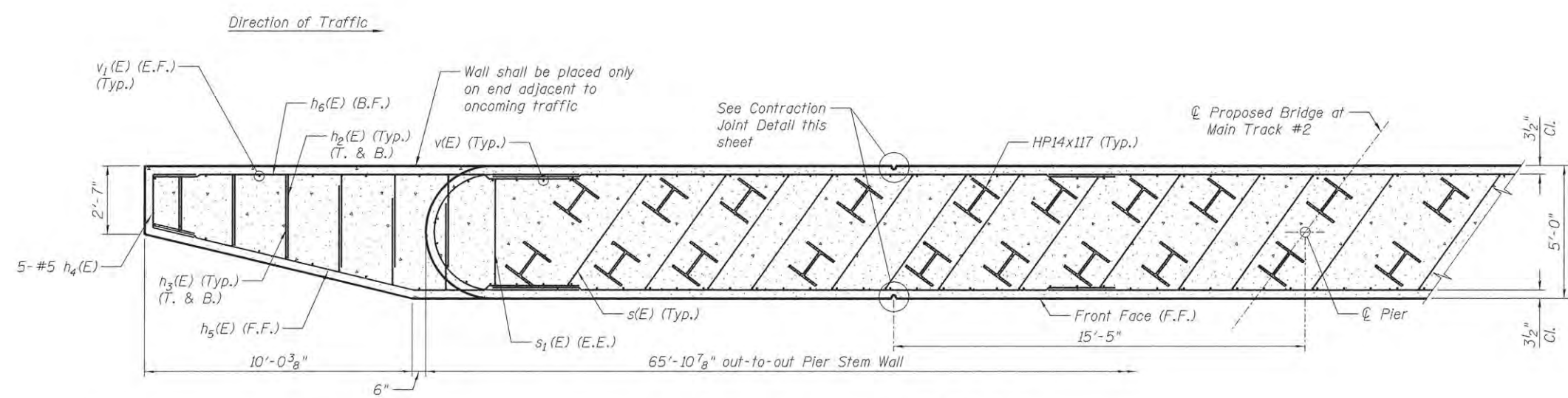
PRECAST CAP DETAILS  
STRUCTURE 048-9928

SHEET NO. 38 OF 48 SHEETS

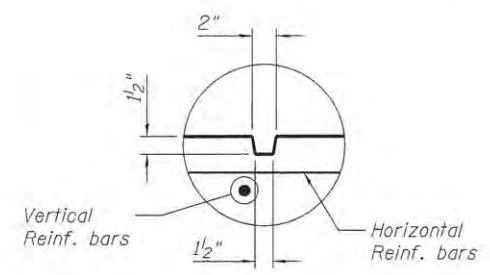
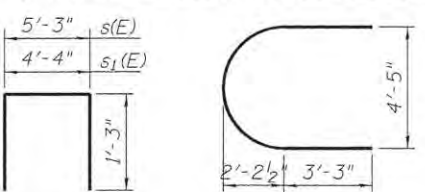
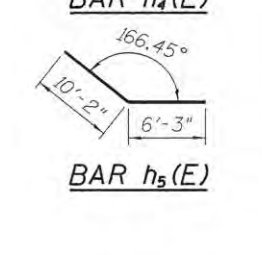
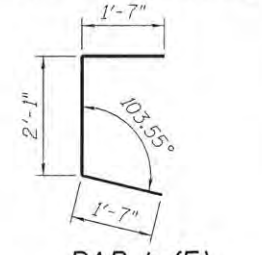
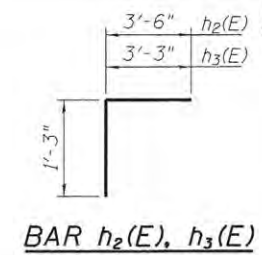
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	118
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL - TWO WALLS**

Bar	No.	Size	Length	Shape
h(E)	56	#5	22'-3"	—
h <sub>1</sub> (E)	56	#5	41'-3"	—
h <sub>2</sub> (E)	24	#5	4'-9"	┌┐
h <sub>3</sub> (E)	24	#5	4'-6"	┌┐
h <sub>4</sub> (E)	10	#5	5'-3"	┌┐
h <sub>5</sub> (E)	10	#5	16'-5"	┌┐
h <sub>6</sub> (E)	10	#5	16'-0"	┌┐
s(E)	616	#5	7'-9"	┌┐
s <sub>1</sub> (E)	56	#5	6'-10"	┌┐
u(E)	56	#5	13'-5"	┌┐
v(E)	272	#5	12'-9"	—
v <sub>1</sub> (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	



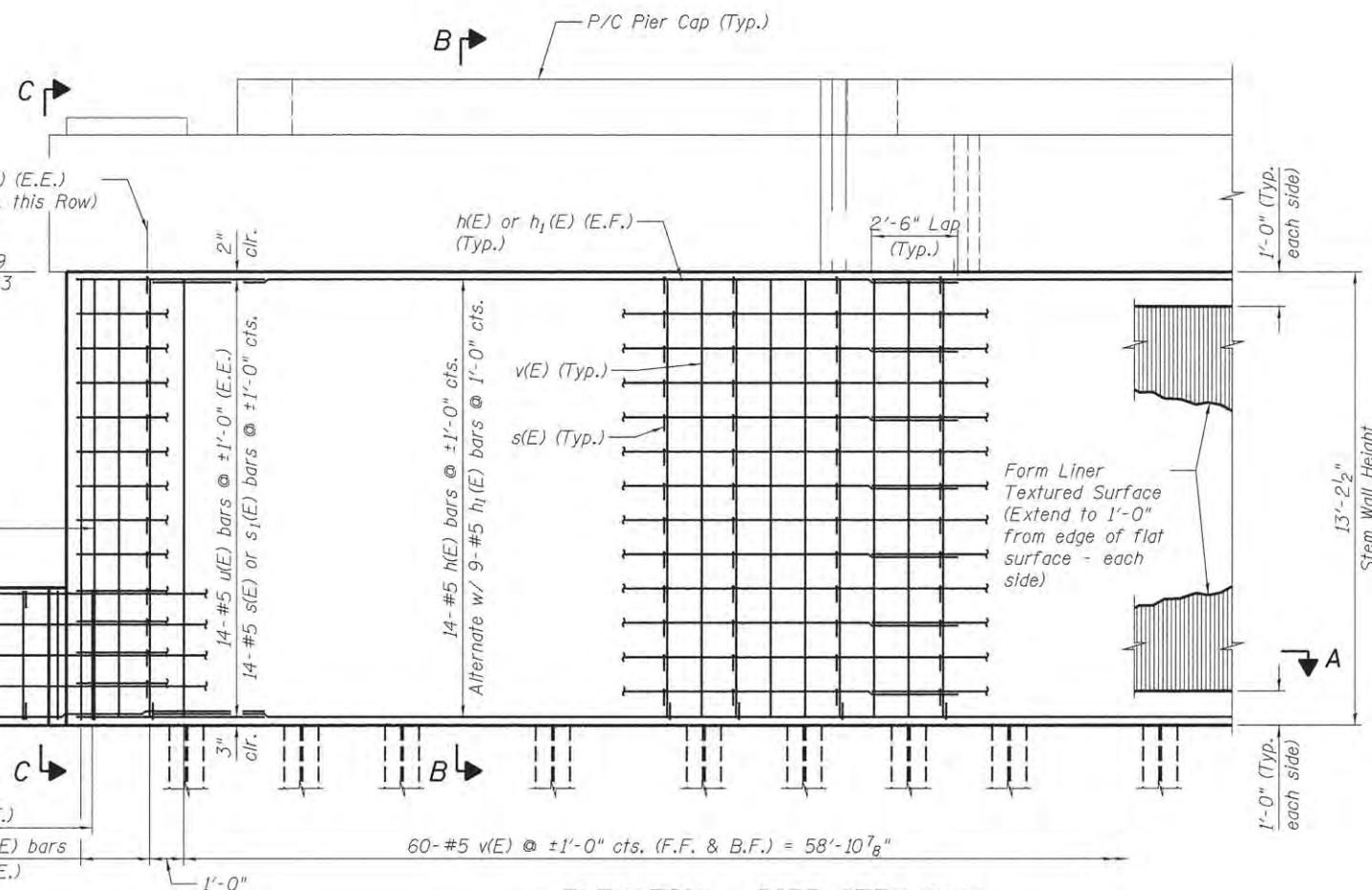
**SECTION A-A**  
(Pier #1 shown, Pier #2 similar)



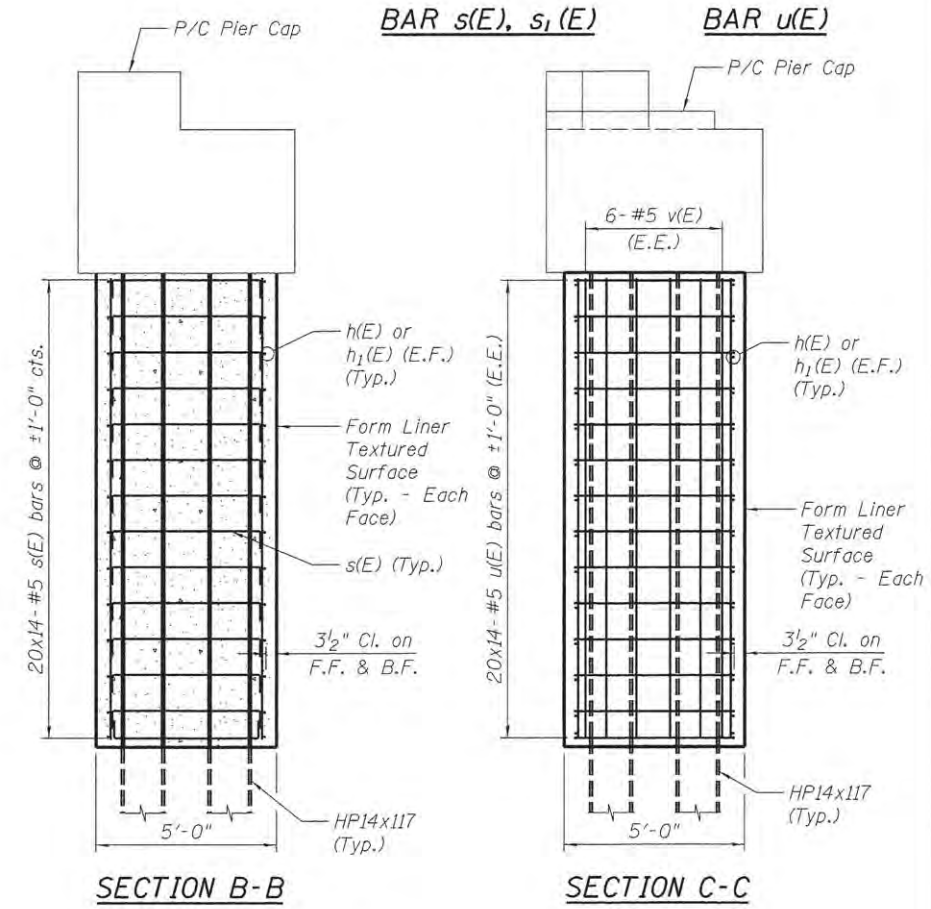
**CONTRACTION JOINT DETAIL**

Do not lap splice reinforcement at control joints

Pier #1 Elev. = 771.49  
Pier #2 Elev. = 771.63



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



**SECTION B-B**

**SECTION C-C**

- Notes:**
1. During excavation for roadway, contractor shall install bracing between piles as shown on Sheet 2.
  2. 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

PROJECT: s:\svr\306.hanson.dom\hanson\_projects\documents\09\jobs\09\l0105\cad-phase1\struct\sheet\0489\0105-pier\_stem\_wall

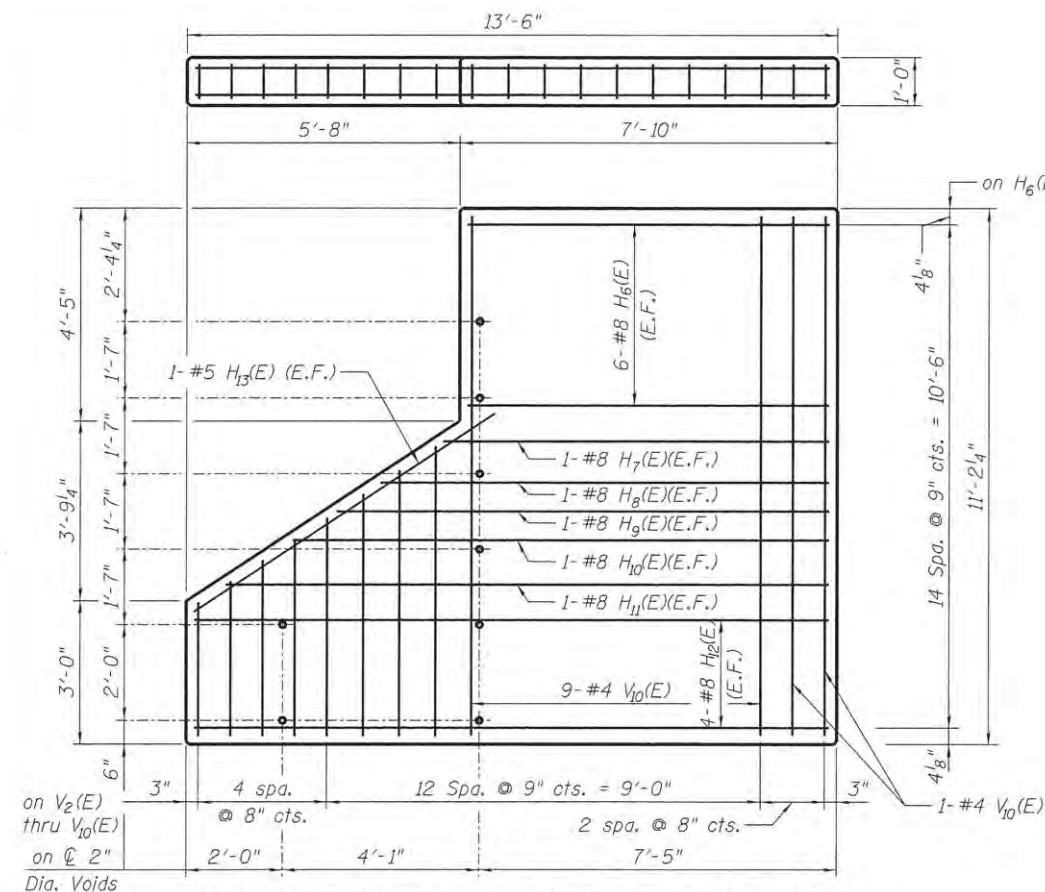
USER NAME	= ande-00846	DESIGNED	= JEC	REVISED	=
CHECKED	= MAF	REVISED	=		
DRAWN	= GTJ	REVISED	=		
CHECKED	= MAF	REVISED	=		
PLOT SCALE	= 2:8.0000 ' = 1" in.				
PLOT DATE	= 11/13/2015				

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

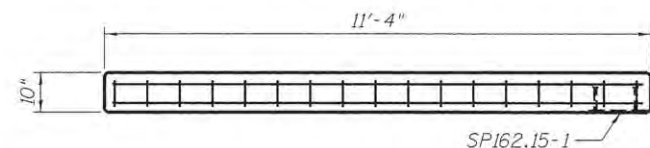
SHEET NO. 39 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	119
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				

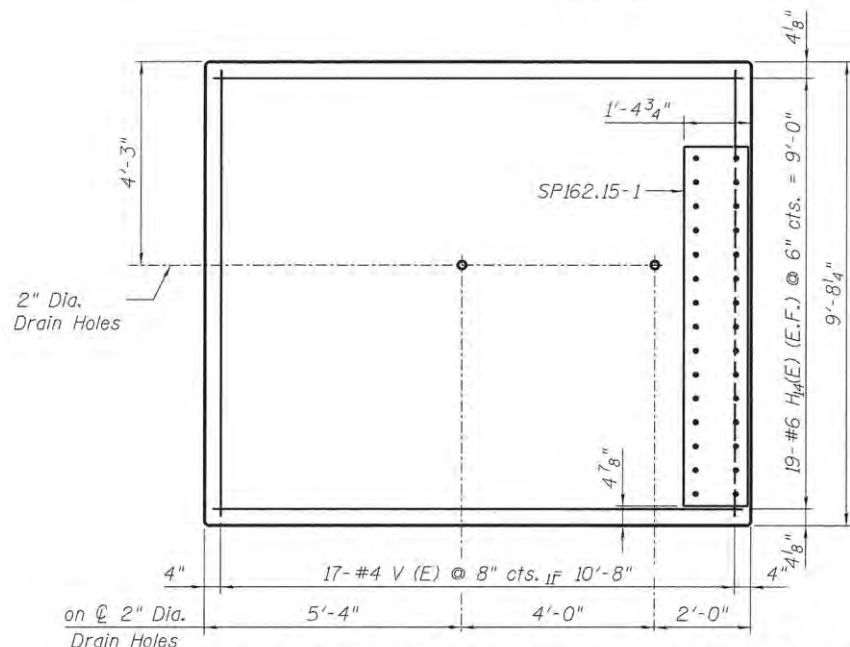


**PRECAST WING WALL - SPW162.15-1 (4 REQ'D.)**

Wt. = 17,000 lbs., Vol. = 4.27 cu. yds., Reinf. Steel = 1,020 lbs.

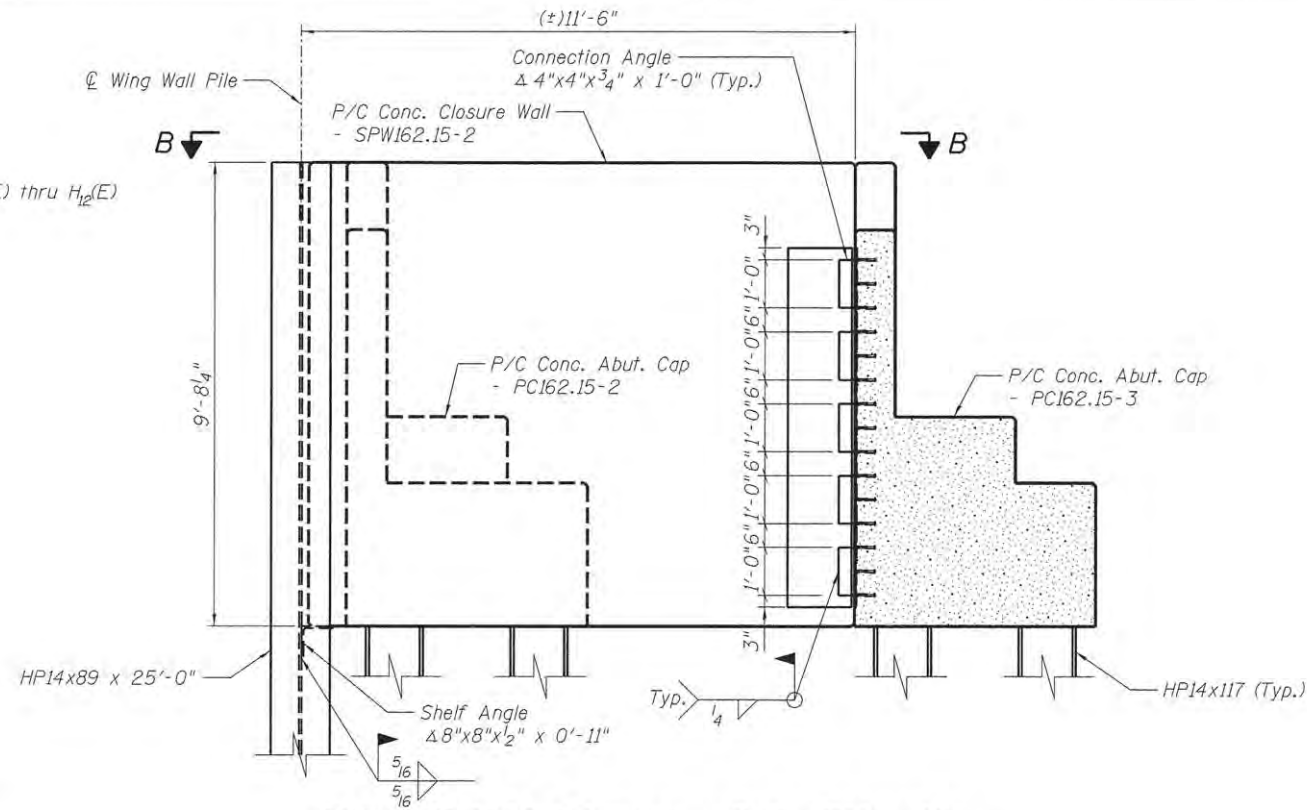


SPI62.15-1

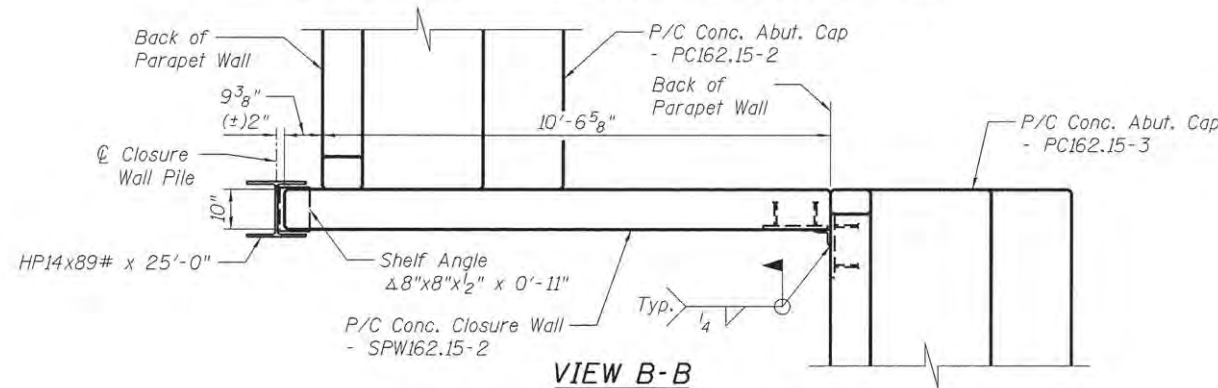


**PRECAST CLOSURE WALL - SPW162.15-2 (4 REQ'D.)**

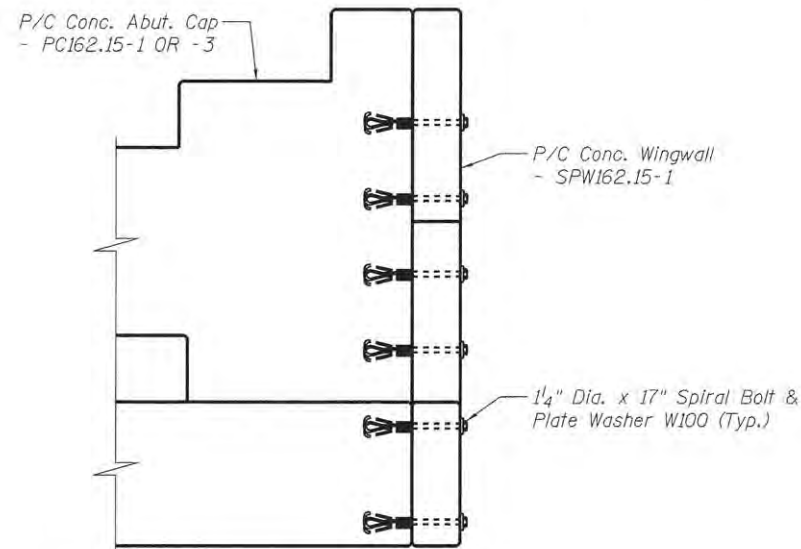
Wt. = 14,400 lbs., Vol. = 3.39 cu. yds., Reinf. Steel = 860 lbs.



**PRECAST CLOSURE WALL - ELEVATION VIEW**



**VIEW B-B**



**WINGWALL CONNECTION DETAIL**

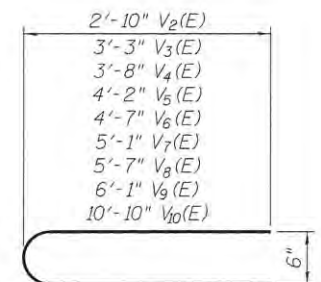
Note:  
Fabricator shall provide lifting devices for SPW162.15-1 and SPW162.15-2

**BILL OF MATERIAL  
WINGWALL - SPW162.15-1**

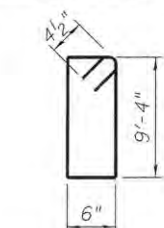
Bar	No.	Size	Length	Shape
H <sub>6</sub> (E)	12	#8	7'-6"	—
H <sub>7</sub> (E)	2	#8	8'-0"	—
H <sub>8</sub> (E)	2	#8	9'-3"	—
H <sub>9</sub> (E)	2	#8	10'-2"	—
H <sub>10</sub> (E)	2	#8	11'-1"	—
H <sub>11</sub> (E)	2	#8	12'-6"	—
H <sub>12</sub> (E)	8	#8	13'-2"	—
H <sub>13</sub> (E)	2	#5	7'-6"	—
V <sub>2</sub> (E)	1	#4	6'-0"	⊏
V <sub>3</sub> (E)	1	#4	6'-10"	⊏
V <sub>4</sub> (E)	1	#4	7'-8"	⊏
V <sub>5</sub> (E)	1	#4	8'-8"	⊏
V <sub>6</sub> (E)	1	#4	9'-6"	⊏
V <sub>7</sub> (E)	1	#4	10'-6"	⊏
V <sub>8</sub> (E)	1	#4	11'-6"	⊏
V <sub>9</sub> (E)	1	#4	12'-6"	⊏
V <sub>10</sub> (E)	11	#4	22'-0"	⊏
STRUCTURAL STEEL				
8	PLATE WASHER, W100 (SEE DETAIL SHEET 42) (SHIP LOOSE)			

**BILL OF MATERIAL  
CLOSURE WALL - SPW162.15-2**

Bar	No.	Size	Length	Shape
H <sub>14</sub> (E)	38	#6	11'-0"	—
V <sub>11</sub> (E)	17	#4	20'-5"	⊏
STRUCTURAL STEEL				
5	CONNECTION ANGLE, 4"x4"x3/4"x1'-0" (SHIP LOOSE)			
2	CLOSURE WALL PLATE SPI62.15-1 (SEE DETAIL SHEET 41)			



**BARS V<sub>2</sub>(E), V<sub>3</sub>(E), V<sub>4</sub>(E), V<sub>5</sub>(E), V<sub>6</sub>(E), V<sub>7</sub>(E), V<sub>8</sub>(E), V<sub>9</sub>(E), V<sub>10</sub>(E)**



**BAR V<sub>11</sub>(E)**

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

per:\spi-svr\386.hanson.dom\hanson\_projects\documents\09jobs\091015\CAO-PhaseII\Struct\Sheet\04891015-PreCastClosureWall.Wingwall\_Details



USER NAME	= andr-00846
DESIGNED	- JEC
CHECKED	- MAF
DRAWN	- GTJ
CHECKED	- MAF
PLOT SCALE	= 2x0.0000 '1' / 1/8"
PLOT DATE	= 11/13/2015

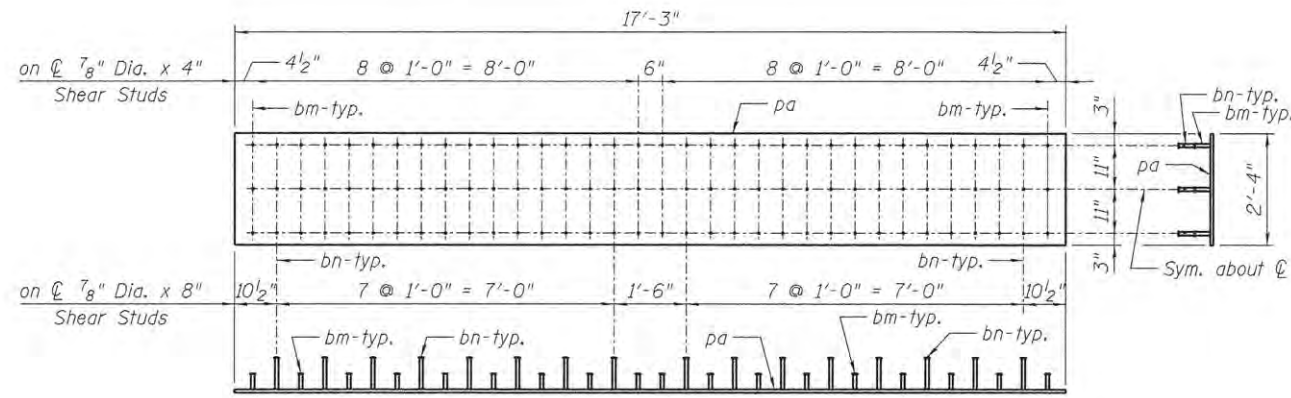
REVISION	-
REVISION	-
REVISION	-
REVISION	-
REVISION	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRECAST CLOSURE WALL AND WINGWALL DETAILS  
STRUCTURE 048-9928**

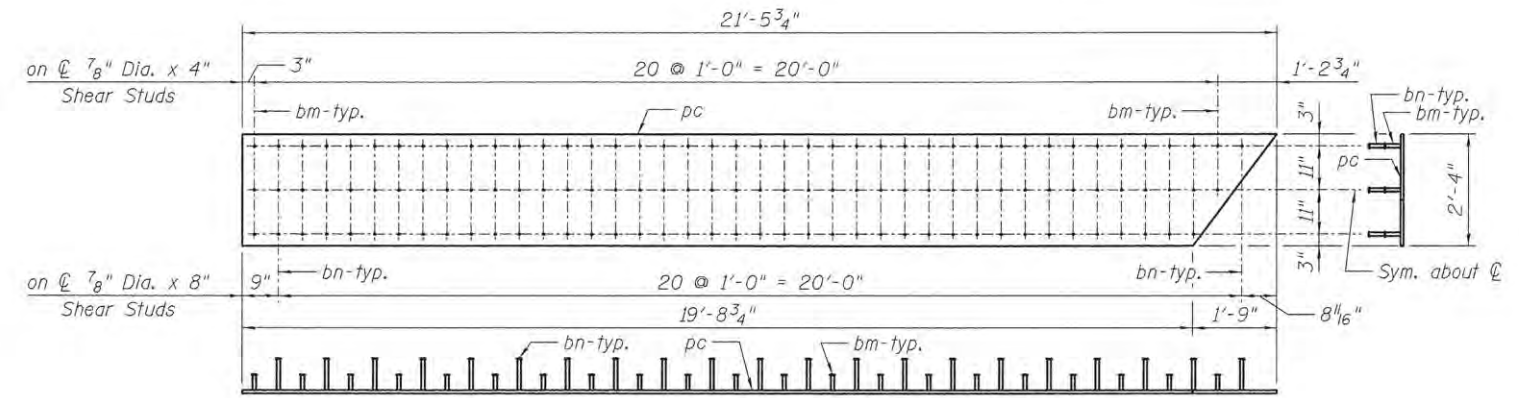
SHEET NO. 40 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	120
CONTRACT NO.				89417
ILLINOIS FED. AID PROJECT				



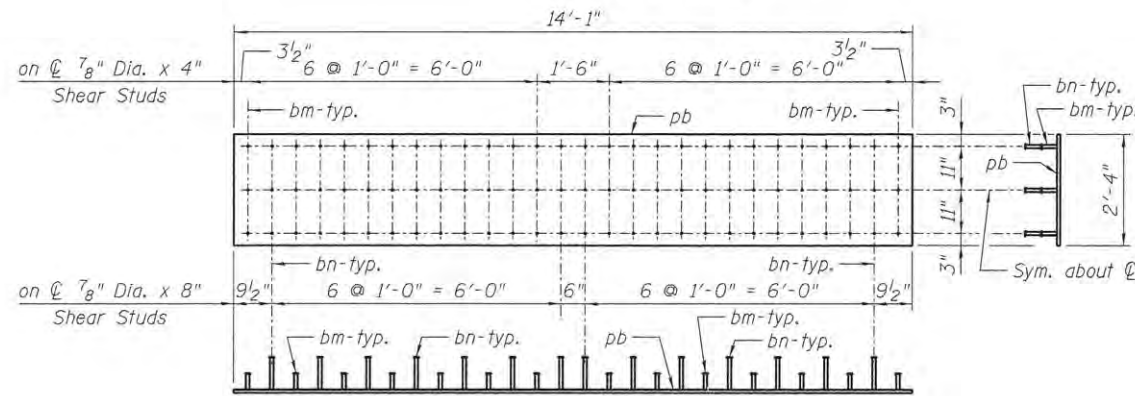
**PILE PLATE PPI62.15-1 (8 REQ'D.)**

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



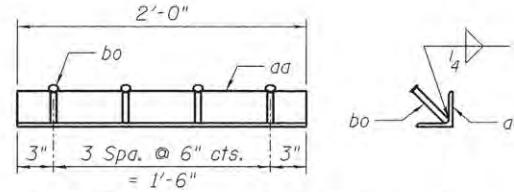
**PILE PLATE PPI62.15-3 (8 REQ'D.)**

1 - Plate  $\frac{3}{4}$ " x 28" x 21'-5 3/4" - pc  
 62 -  $\frac{7}{8}$ " Dia. x 4" Shear Studs - bm  
 61 -  $\frac{7}{8}$ " Dia. x 8" Shear Studs - bn  
 Weight = 1,650 lbs.



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

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



**EMBEDDED ANGLE SA162.15-1**

1 - Angle 3" x 3" x  $\frac{5}{16}$ " x 2'-0" - aa  
 4 -  $\frac{1}{2}$ " Dia. x 3" Shear Studs - bo  
 Weight = 13 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.

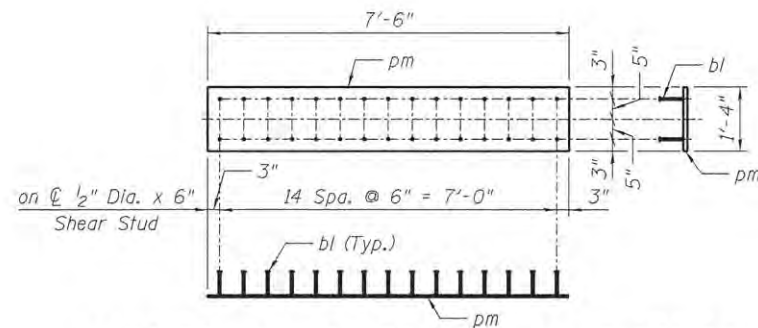
Fabrication and Arc Welding of Structural Steel shall be in accordance with the Specifications. Open Holes: As noted. Shop Paint: None.

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.

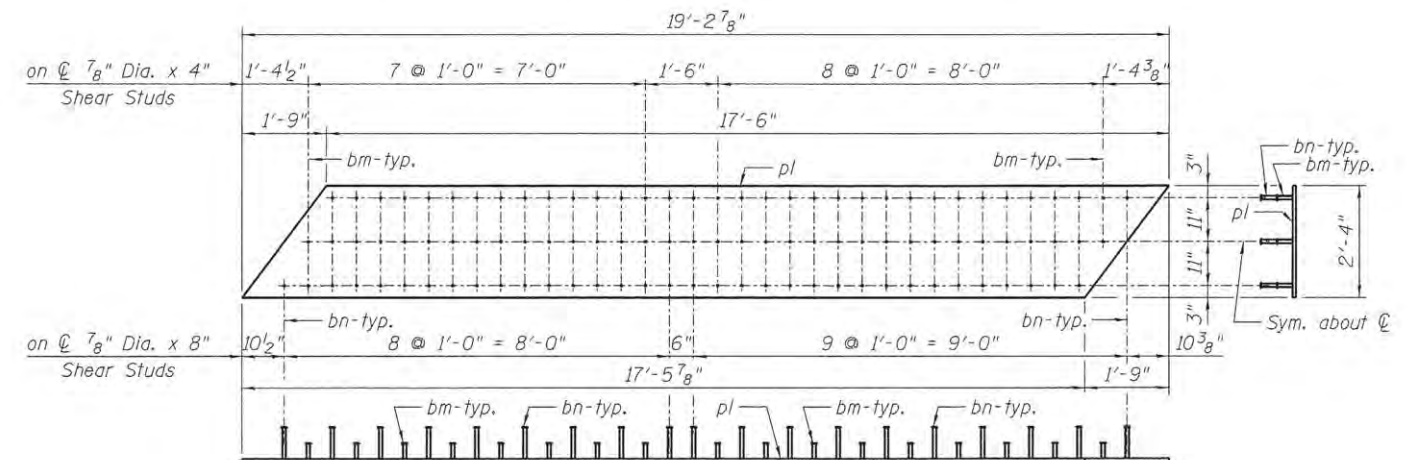
After galvanizing, all elements shall be free of fins, abrasions, rough or sharp edges and other surface defects.

All steel this sheet included in the Lump Sum cost of "Precast Concrete Substructure".



**CLOSURE WALL PLATE SPI62.15-1 (8 REQ'D.)**

8 Req'd. - Mk. SPI62.15-1  
 1 - Plate  $\frac{1}{2}$ " x 7'-6" - pm  
 30 -  $\frac{1}{2}$ " Dia. x 6" Shear Studs - bl  
 Weight = 216 lbs.



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

1 - Plate  $\frac{3}{4}$ " x 28" x 19'-2 7/8" - pl  
 49 -  $\frac{7}{8}$ " Dia. x 4" Shear Studs - bm  
 53 -  $\frac{7}{8}$ " 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

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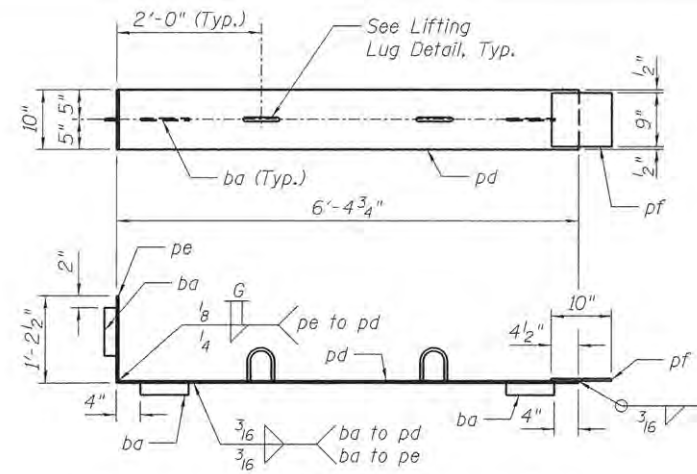
USER NAME	= ande-00846	DESIGNED	- JEC	REVISED	-
PLOT SCALE	= 0:1.0000 1' / 1/8"	CHECKED	- MAF	REVISED	-
PLOT DATE	= 11/13/2015	DRAWN	- GTJ	REVISED	-
		CHECKED	- MAF	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

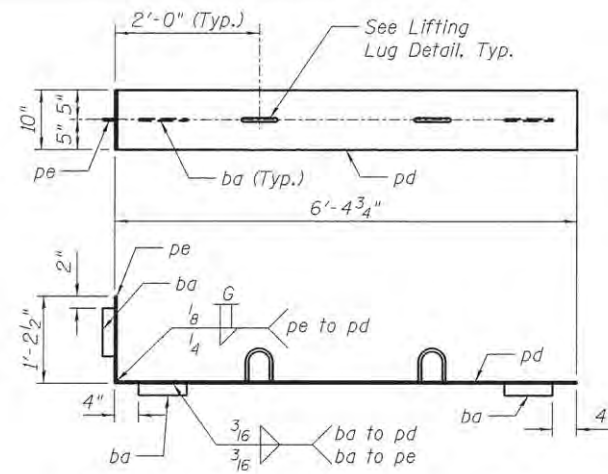
SHEET NO. 41 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	121
CONTRACT NO.			89417	
ILLINOIS FED. AID PROJECT				



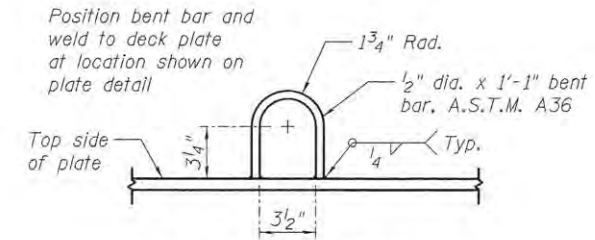
**DECK PLATE - SDPI62.15-1 (6 REQ'D.)**

- 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 1/2" - pe
- 1 - PL 9" x 3/8" x 0'-10" - pf
- 2 - D-Ring Lifting Lug
- Weight = 114 lbs.
- Galvanize after fabrication

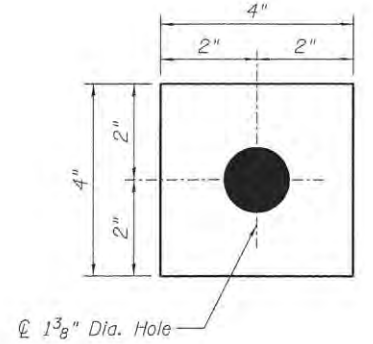


**DECK PLATE - SDPI62.15-2 (6 REQ'D.)**

- 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 1/2" - pe
- 2 - D-Ring Lifting Lug
- Weight = 103 lbs.
- Galvanize after fabrication



**LIFTING LUG DETAIL**



**WASHER - W100**

- 1 - Bar 4" x 3/4" x 0'-4"
- Weight = 3.4 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.

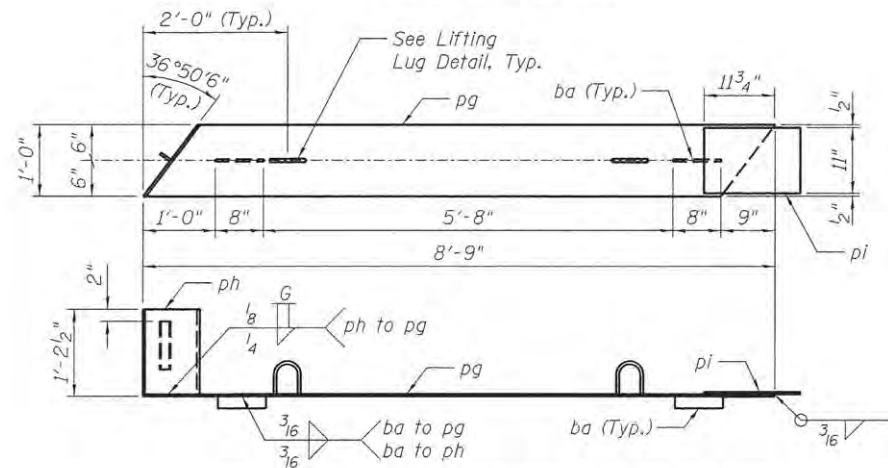
Fabrication and Arc Welding of Structural Steel shall be in accordance with the Specifications. Open Holes: As noted. Shop Paint: None.

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.

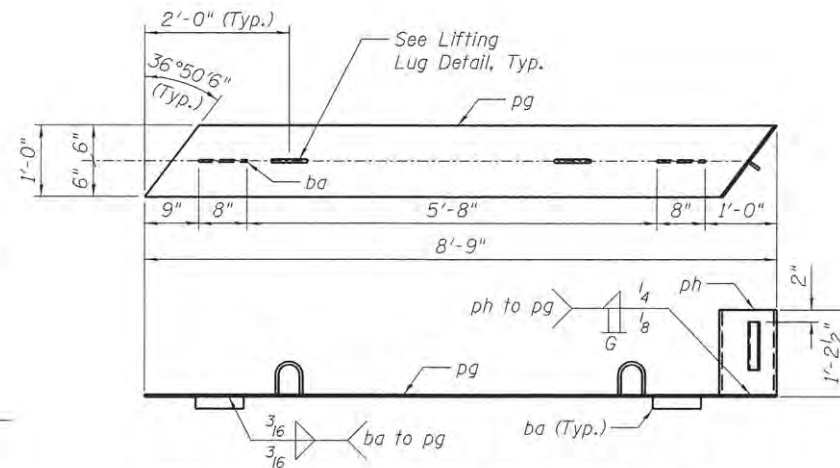
Cost of Deck Plates and Curb Plates shall be included in the Lump Sum cost of "Furnishing and Erecting Structural Steel".

Cost of Washer W100 shall be included in the Lump Sum cost of "Precast Concrete Substructure".



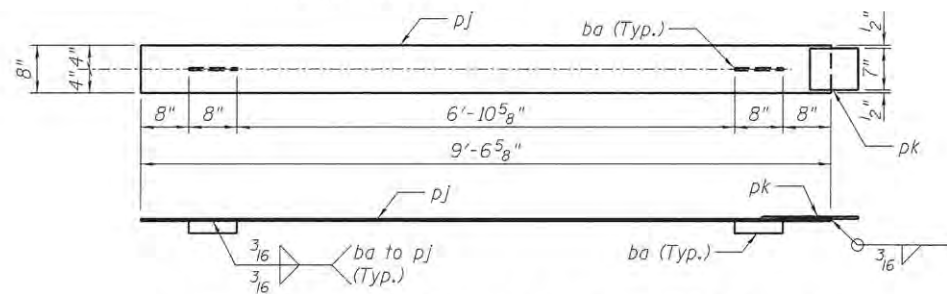
**DECK PLATE - SDPI62.15-3 (6 REQ'D.)**

- 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 1/2" - ph
- 1 - PL 11" x 3/8" x 1'-4" - pi
- 2 - D-Ring Lifting Lug
- Weight = 182 lbs.
- Galvanize after fabrication



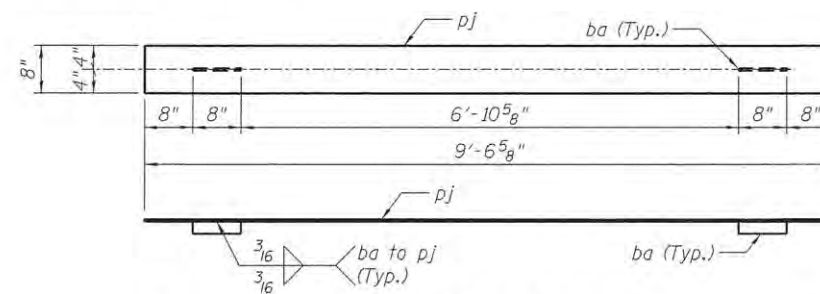
**DECK PLATE - SDPI62.15-4 (6 REQ'D.)**

- 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 1/2" - ph
- 2 - D-Ring Lifting Lug
- Weight = 163 lbs.
- Galvanize after fabrication



**CURB CLOSURE 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" - pj
- 1 - PL 7" x 3/8" x 1'-4" - pk
- Weight = 113 lbs.
- Galvanize after fabrication



**CURB CLOSURE 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" - pj
- Weight = 101 lbs.
- Galvanize after fabrication

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

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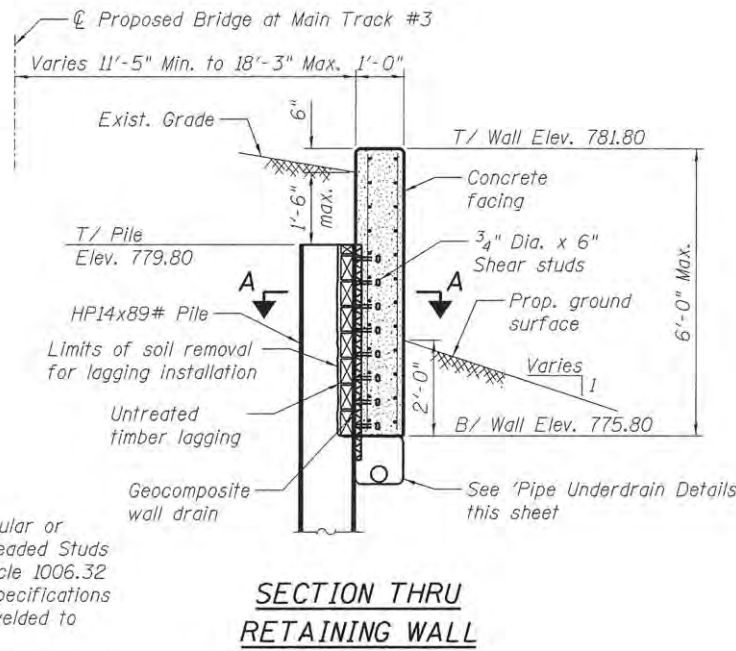
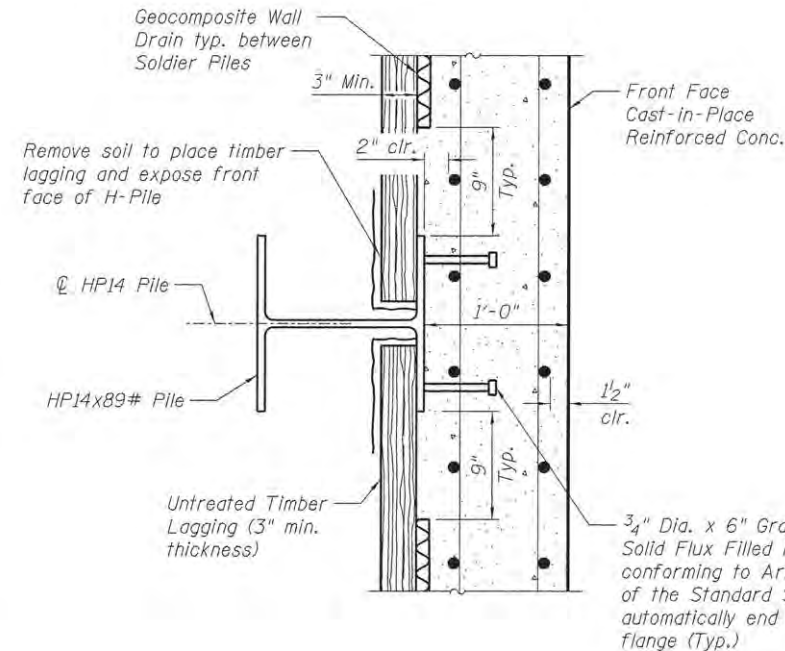
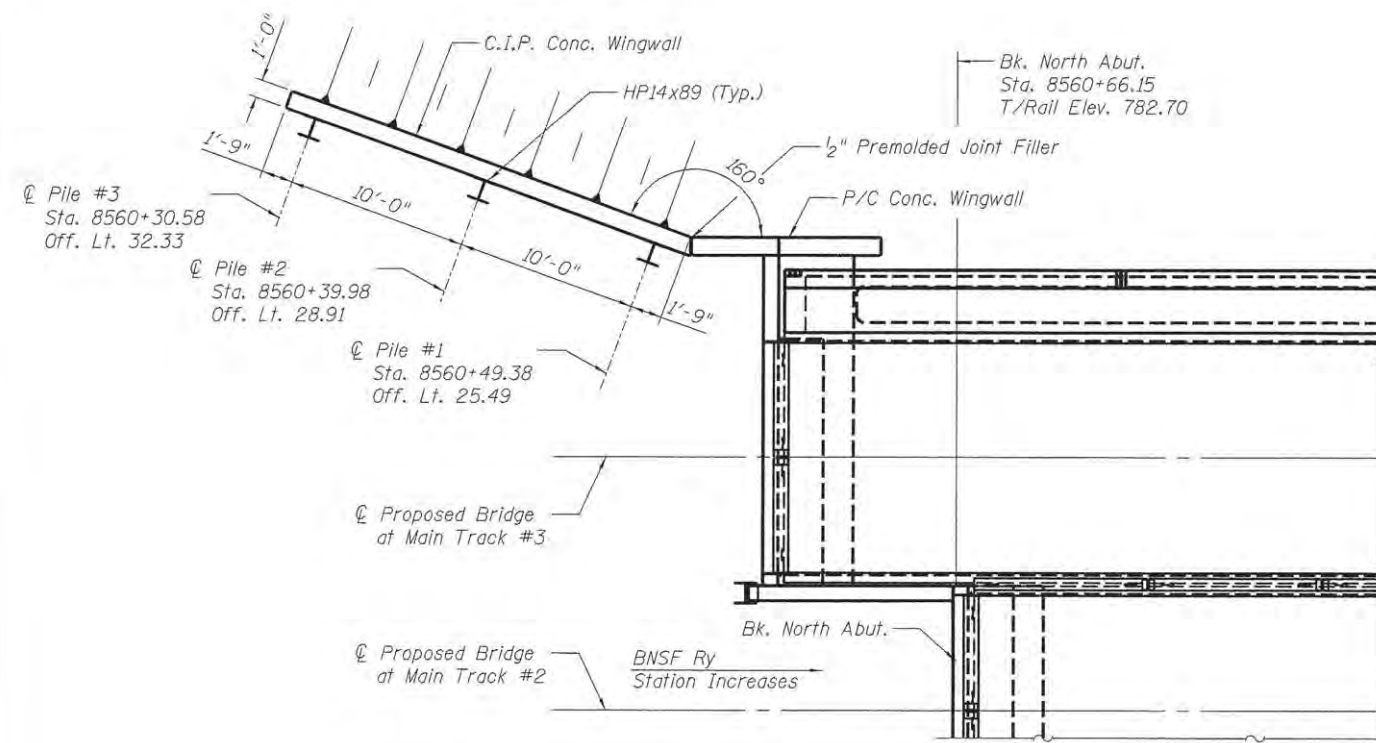
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PLOT SCALE = 1:4.0000 '1' = 1"	CHECKED - MAF	REVISD -
PLOT DATE = 11/13/2015	DRAWN - GTJ	REVISD -
	CHECKED - MAF	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 42 OF 48 SHEETS

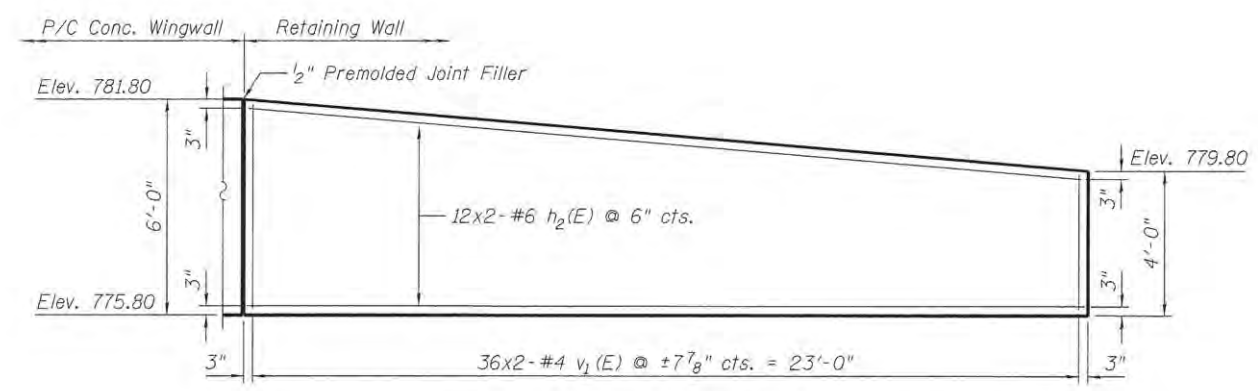
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	122
			CONTRACT NO. 89417	
ILLINOIS FED. AID PROJECT				



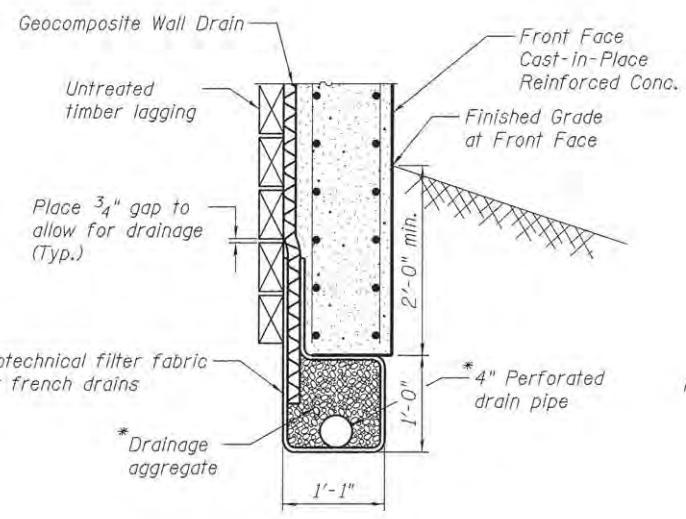
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>2</sub> (E)	24	#6	23'-2"	—
v <sub>1</sub> (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.	10	
Reinforcement Bars, Epoxy Coated		Pound	1,110	
Untreated Timber Lagging		Sq. Ft.	80	
Stud Shear Connectors		Each	48	

**PLAN - RETAINING WALL**

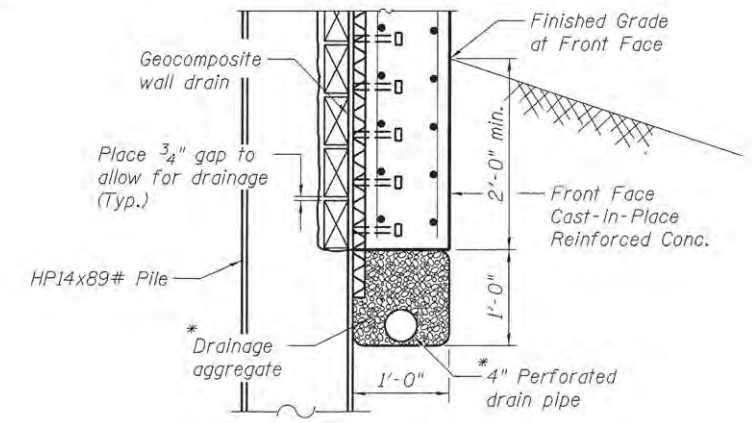


**ELEVATION - RETAINING WALL**



**BETWEEN PILES**

\* Included in the cost of Pipe Underdrains for Structures.



**AT HP14 PILES**

\* Included in the cost of Pipe Underdrains for Structures

**PIPE UNDERDRAIN DETAILS**

Underdrain to be outlet onto the slope with a Rodent Shield as detailed on sheet 44. Included in cost of Pipe Underdrain for Structures.

DESIGNED: JEC  
DRAWN: GTJ  
REVIEWED: MAF

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USER NAME = andr00846	DESIGNED - JEC	REVISED -
PLOT SCALE = 0:1.0000 1" = 10'	CHECKED - MAF	REVISED -
PLOT DATE = 11/13/2015	DRAWN - GTJ	REVISED -
	CHECKED - MAF	REVISED -

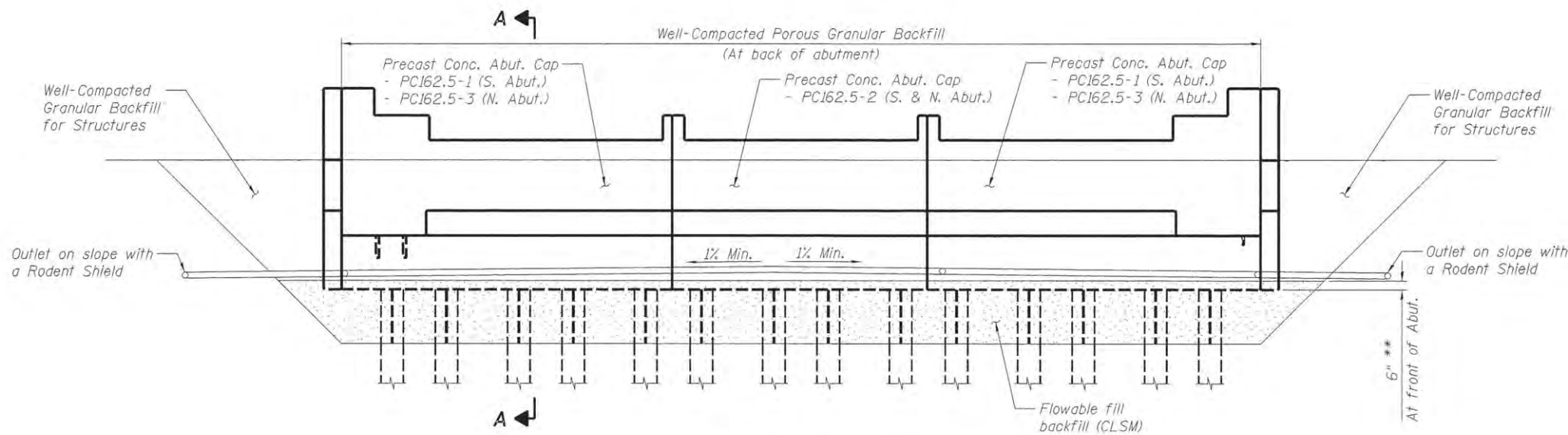
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL DETAILS  
STRUCTURE 048-9928**

SHEET NO. 43 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-G5	KNOX	216	123
CONTRACT NO.			89417	

ILLINOIS FED. AID PROJECT



**ELEVATION**  
(Looking South)

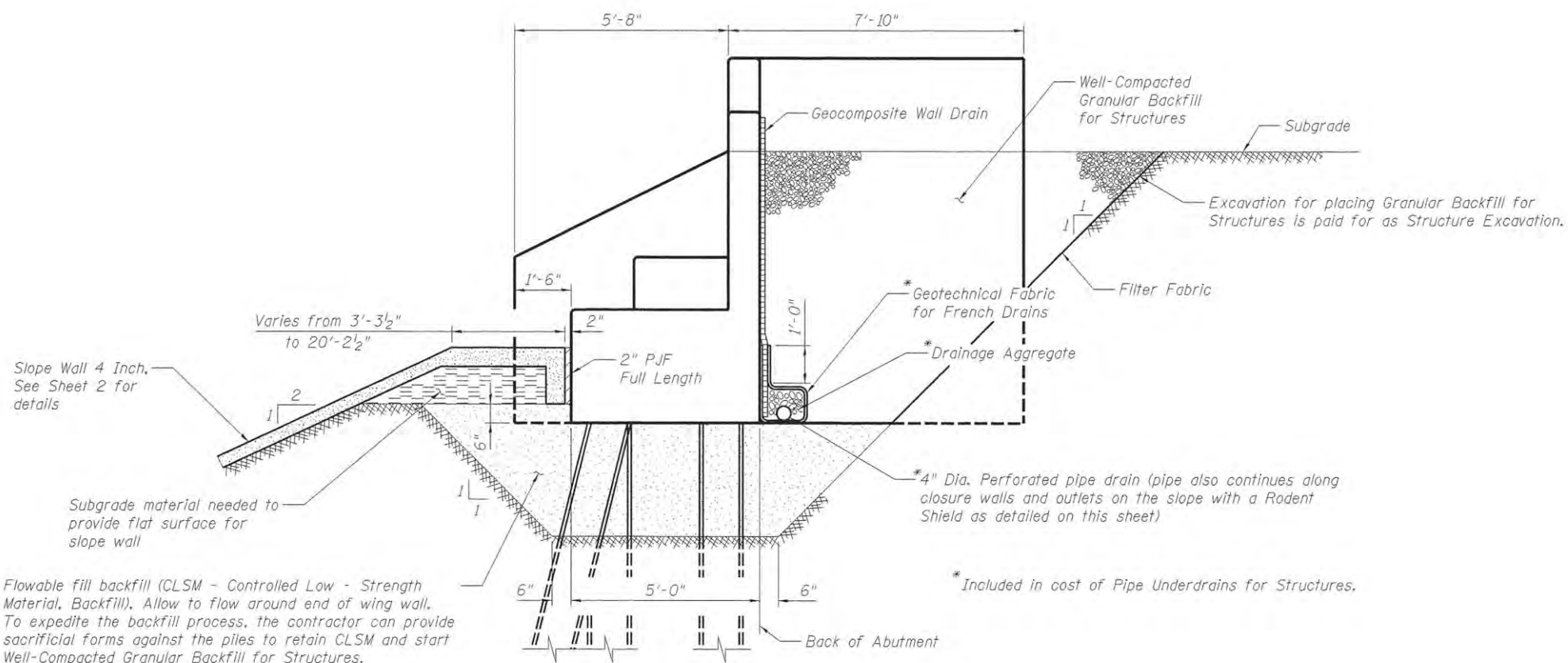
\*\* CLSM shall be flush with bottom of cap at back of Abutment

**BILL OF MATERIAL - STAGE III**

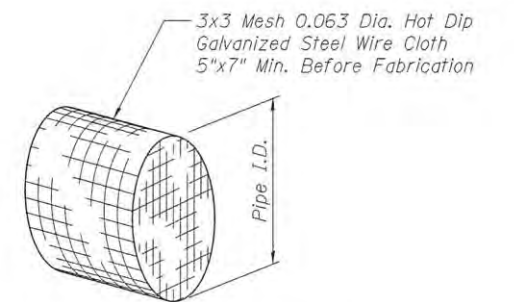
ITEM	UNIT	TOTAL
Geocomposite Wall Drain	Sq. Yd.	60
Controlled Low-Strength Material	Cu. Yd.	50
Granular Backfill for Structures	Cu. Yd.	130
Pipe Underdrain for Structures, 4"	Foot	82

**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)



**DETAIL OF RODENT SHIELD**  
1 Req'd. each outlet onto slope location. Included in cost of Pipe Underdrain for Structures.

Flowable fill backfill (CLSM - Controlled Low - Strength Material, Backfill). Allow to flow around end of wing wall. To expedite the backfill process, the contractor can provide sacrificial forms against the piles to retain CLSM and start Well-Compacted Granular Backfill for Structures.

It is anticipated that the CLSM mix shall be adjusted to expedite setup time. Mix shall be submitted for review and approval. In the event of slow setup, contractor shall be responsible for alternate means to begin backfilling, process to meet closure window schedule.

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

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USER NAME = brest00993	DESIGNED - JEC	REVISED
PLOT SCALE = 8:0.0000 '1' / in.	CHECKED - MAF	REVISED -
PLOT DATE = 5/9/2016	DRAWN - GTJ	REVISED -
	CHECKED - MAF	REVISED -

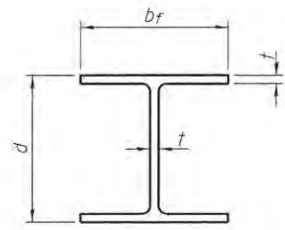
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ABUTMENT BACKFILL DETAILS**  
**STRUCTURE 048-9928**

SHEET NO. 44 OF 48 SHEETS

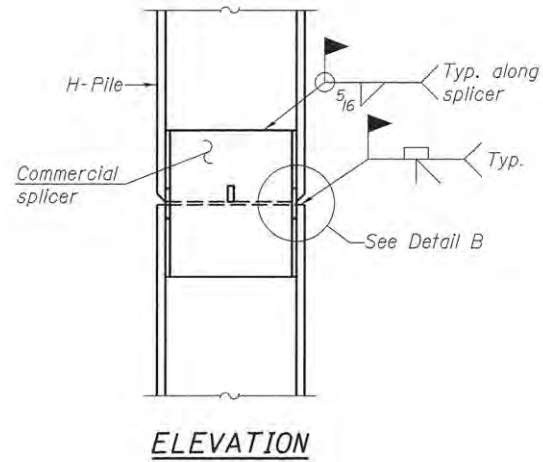
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	124
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				



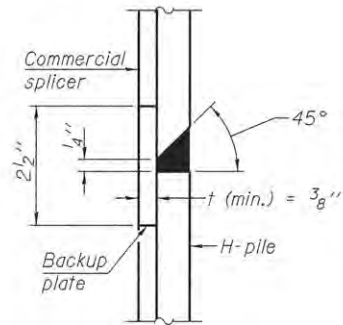


**STEEL PILE TABLE**

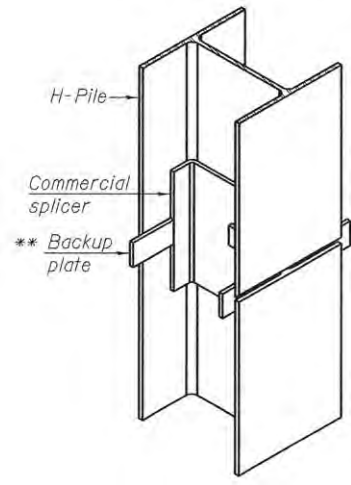
Designation	Depth d	Flange width bf	Web and Flange thickness t
HP 14x117	14 1/4"	14 7/8"	13/16"
x89	13 7/8"	14 3/4"	5/8"



**ELEVATION**

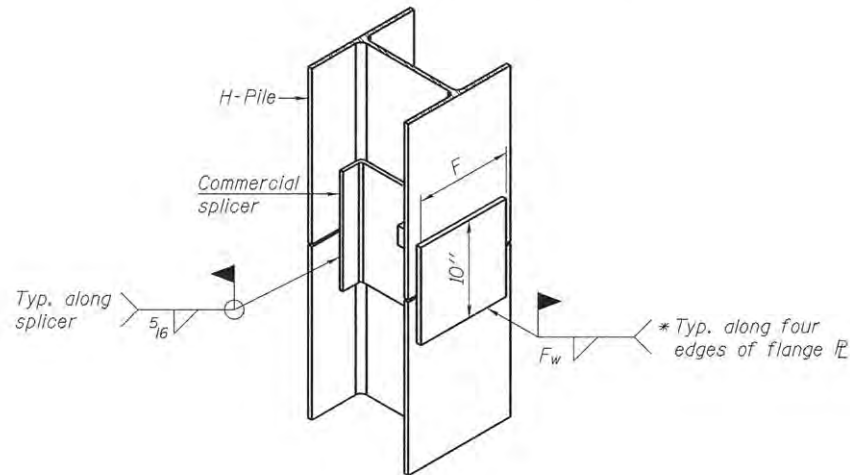


**DETAIL "B"**



**ISOMETRIC VIEW**

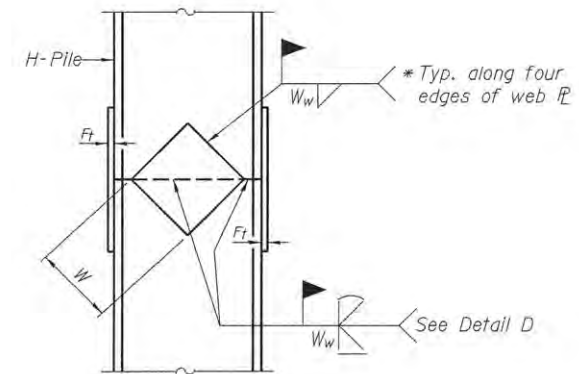
**WELDED COMMERCIAL SPLICE**



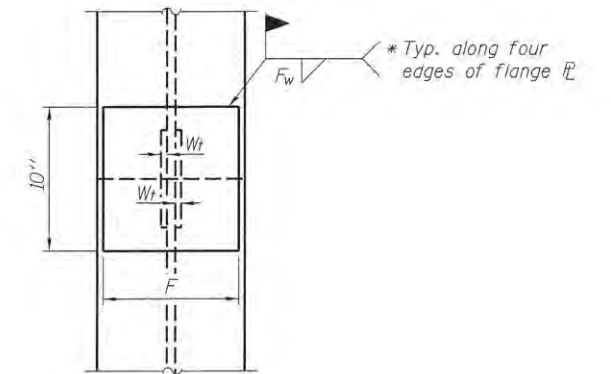
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

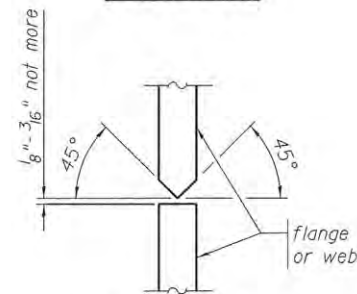
- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.



**ELEVATION**



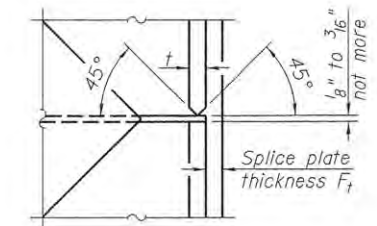
**END VIEW**



**DETAIL D**

Before reinforcing plates are installed, grind the weld contours which will be covered by the reinforcing plates.

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"



**WELDED PLATE FIELD SPLICE**

Notes:

- The steel H-piles shall be according to AASHTO M270 Grade 50.
- Pile splice shall be located a minimum 15 feet below groundline.

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



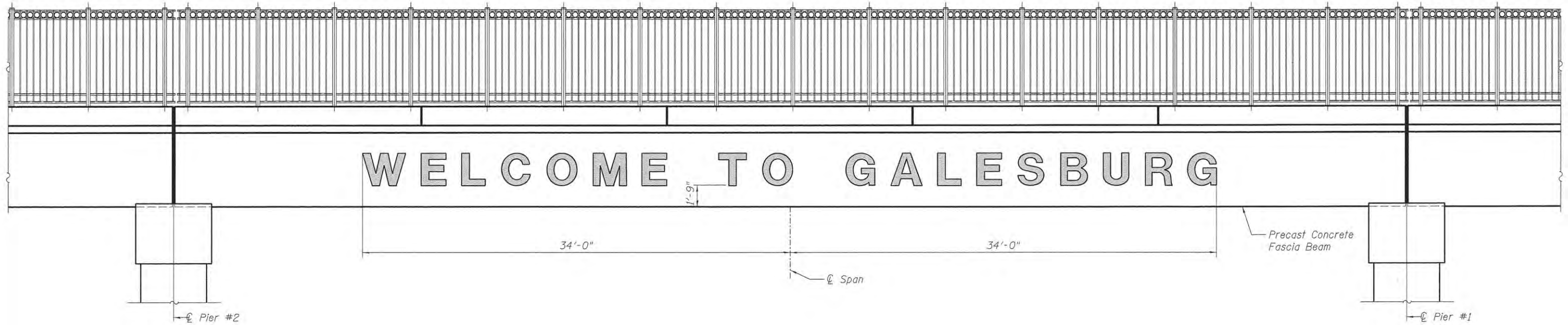
1-27-12

USER NAME = andr-00846	DESIGNED - JEC	REVISED -
PLOT SCALE = 0:1.0000 ' = 1 in.	CHECKED - MAF	REVISED -
PLOT DATE = 11/13/2015	DRAWN - GTJ	REVISED -
	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS  
STRUCTURE 048-9928**  
SHEET NO. 45 OF 48 SHEETS

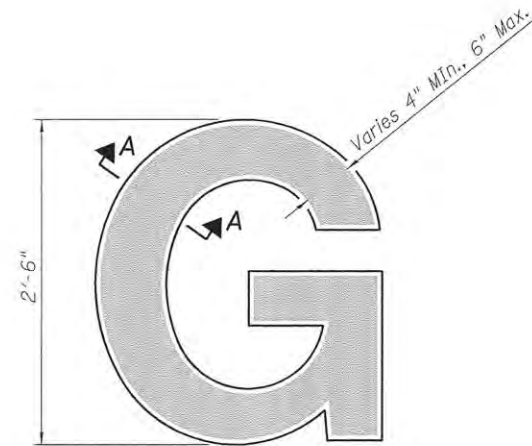
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	125
				CONTRACT NO. 89417
[ILLINOIS] FED. AID PROJECT				



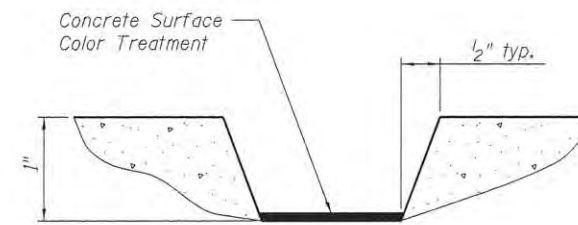
EAST SIDE ELEVATION

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	5-23-15

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USER NAME = andr00846	DESIGNED - JEC	REVISED -
	CHECKED - MAF	REVISED -
PLOT SCALE = 1:2000 ' / in.	DRAWN - GTJ	REVISED -
PLOT DATE = 11/13/2015	CHECKED - MAF	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

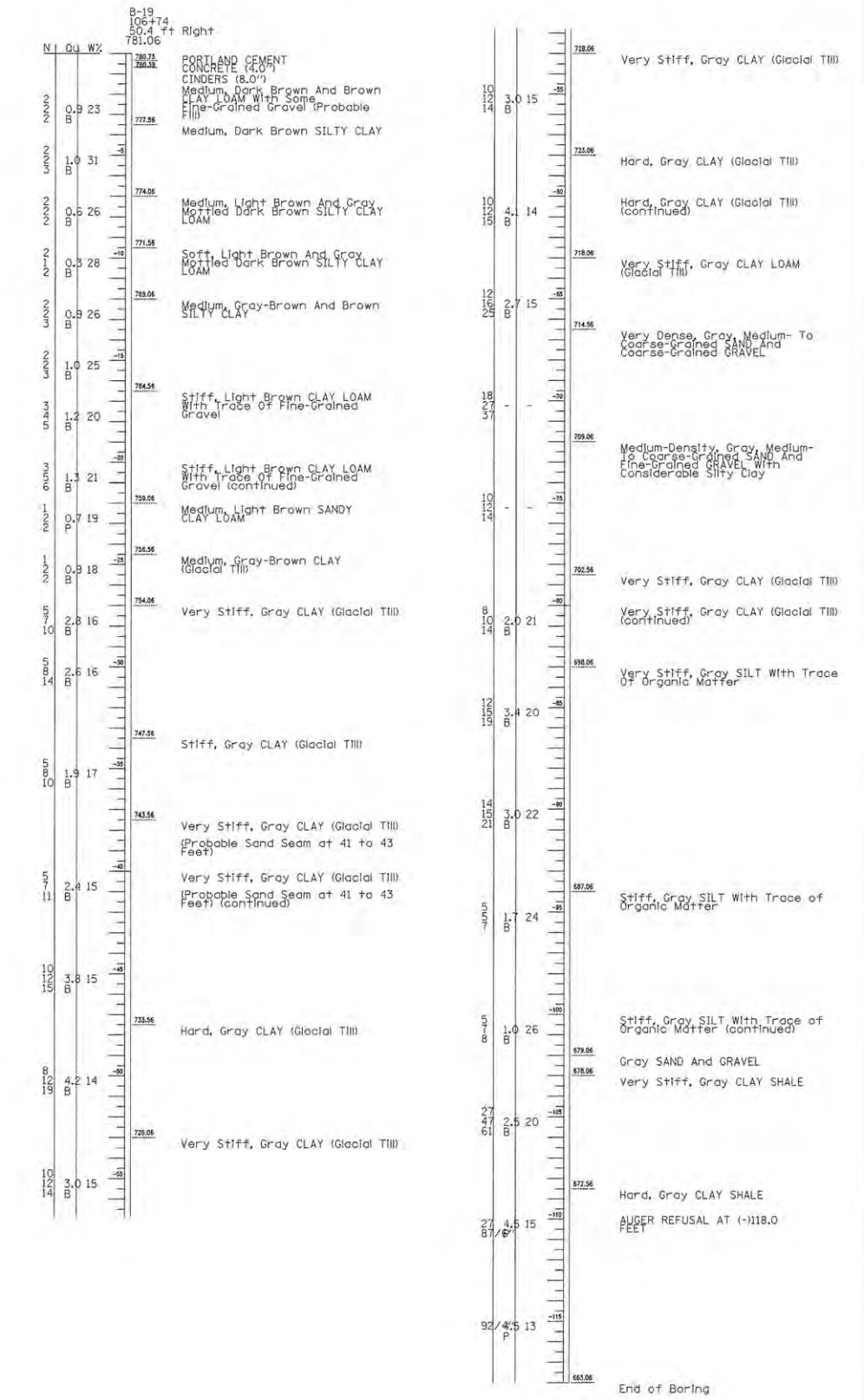
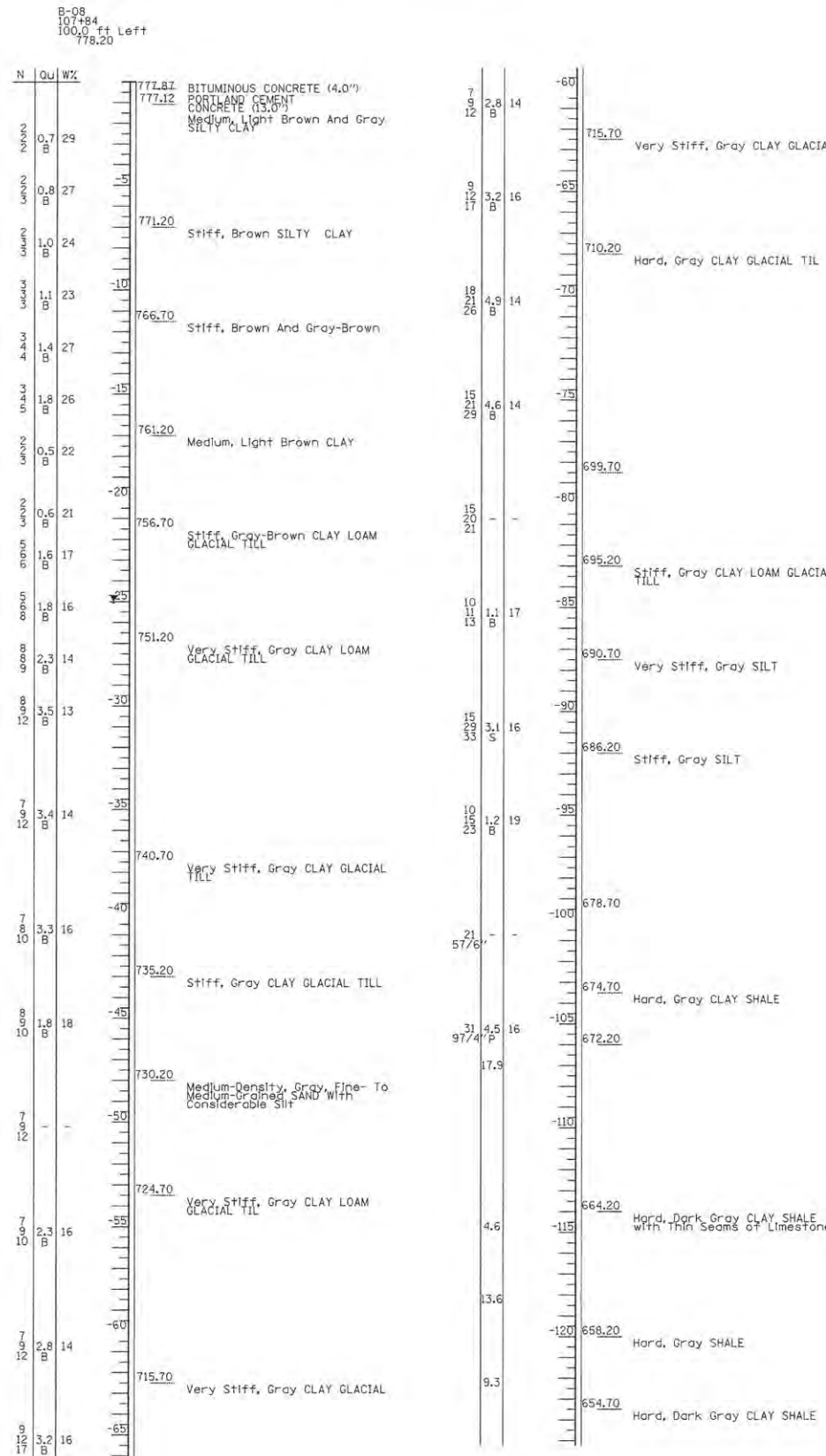
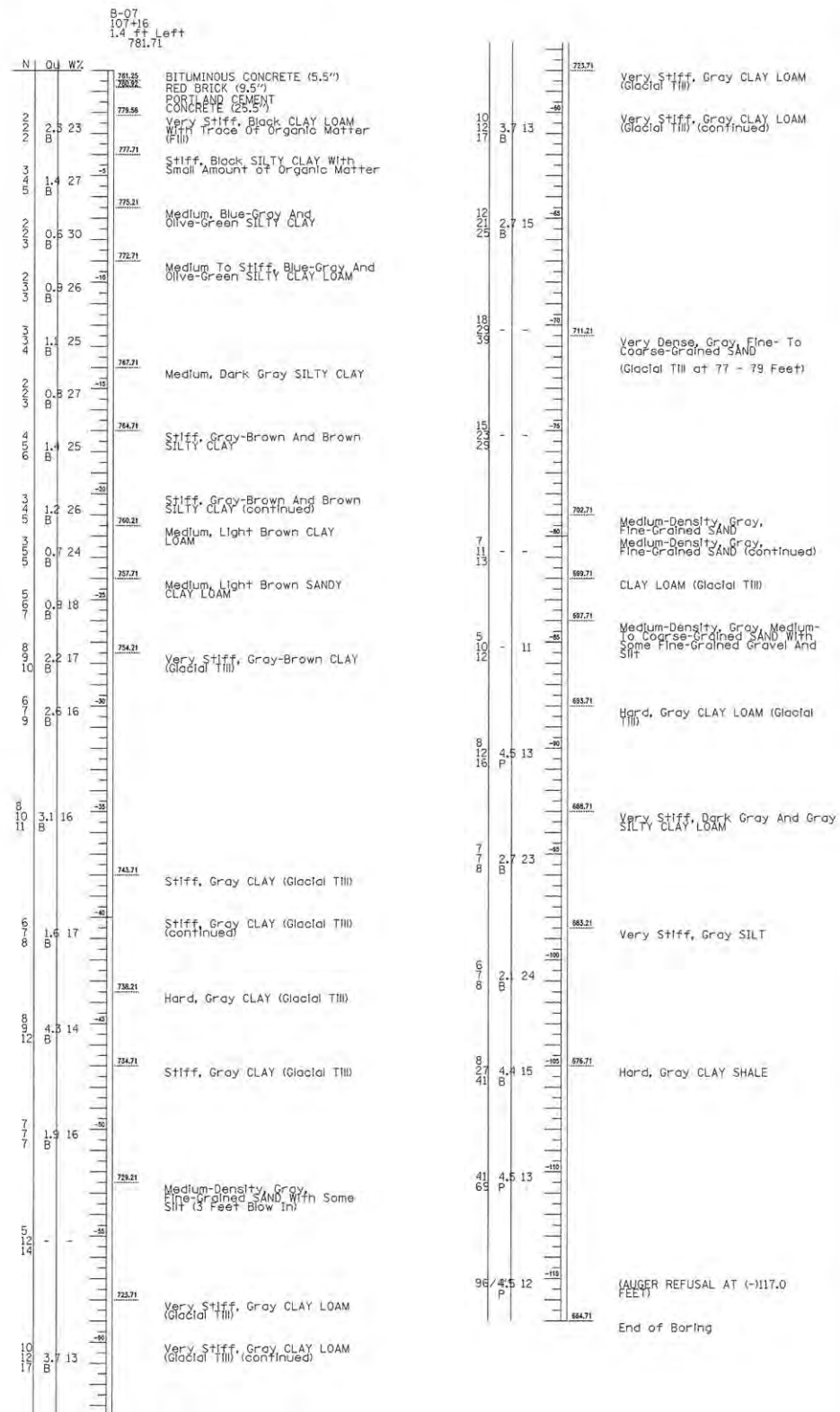
SHEET NO. 46 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	126
				CONTRACT NO. 89417
[ILLINOIS] FED. AID PROJECT				

**B-07 BORING LOG**

**B-08 BORING LOG**

**B-19 BORING LOG**



Note:  
See Sheet 1 for location of borings.

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

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USER NAME = ande00846	DESIGNED - JEC	REVISD -
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PLOT DATE = 11/13/2015	DRAWN - GTJ	REVISD -
	CHECKED - MAF	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

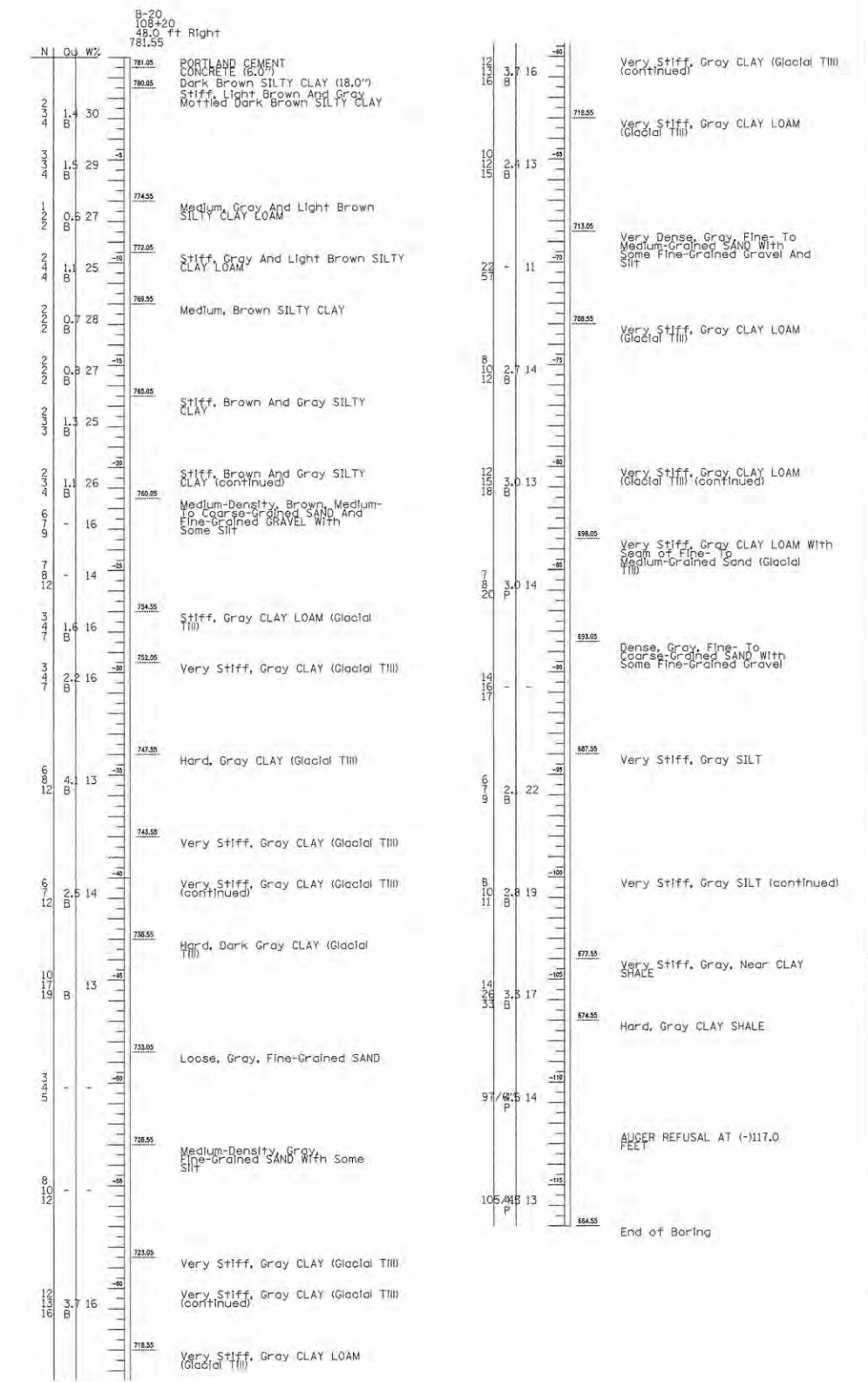
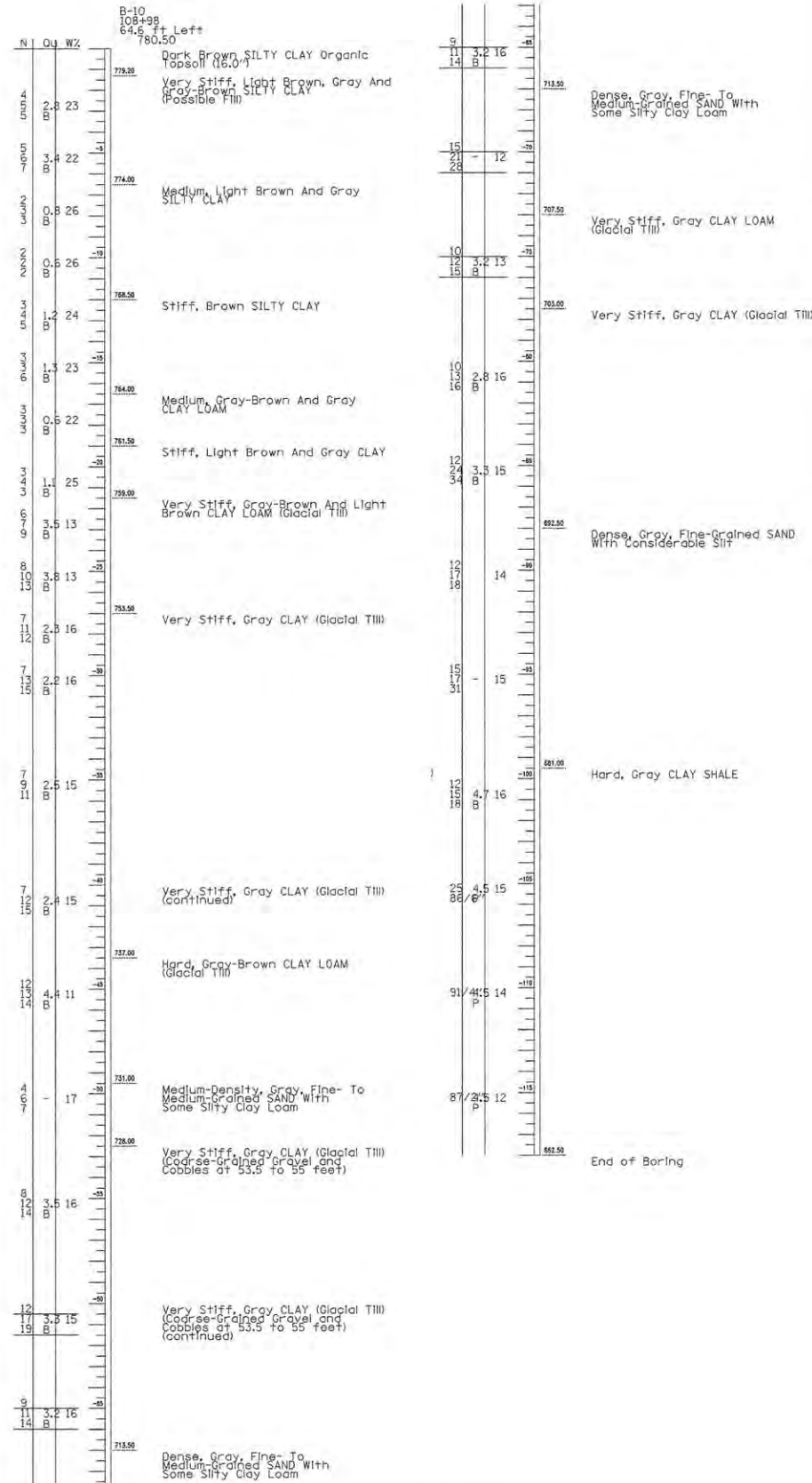
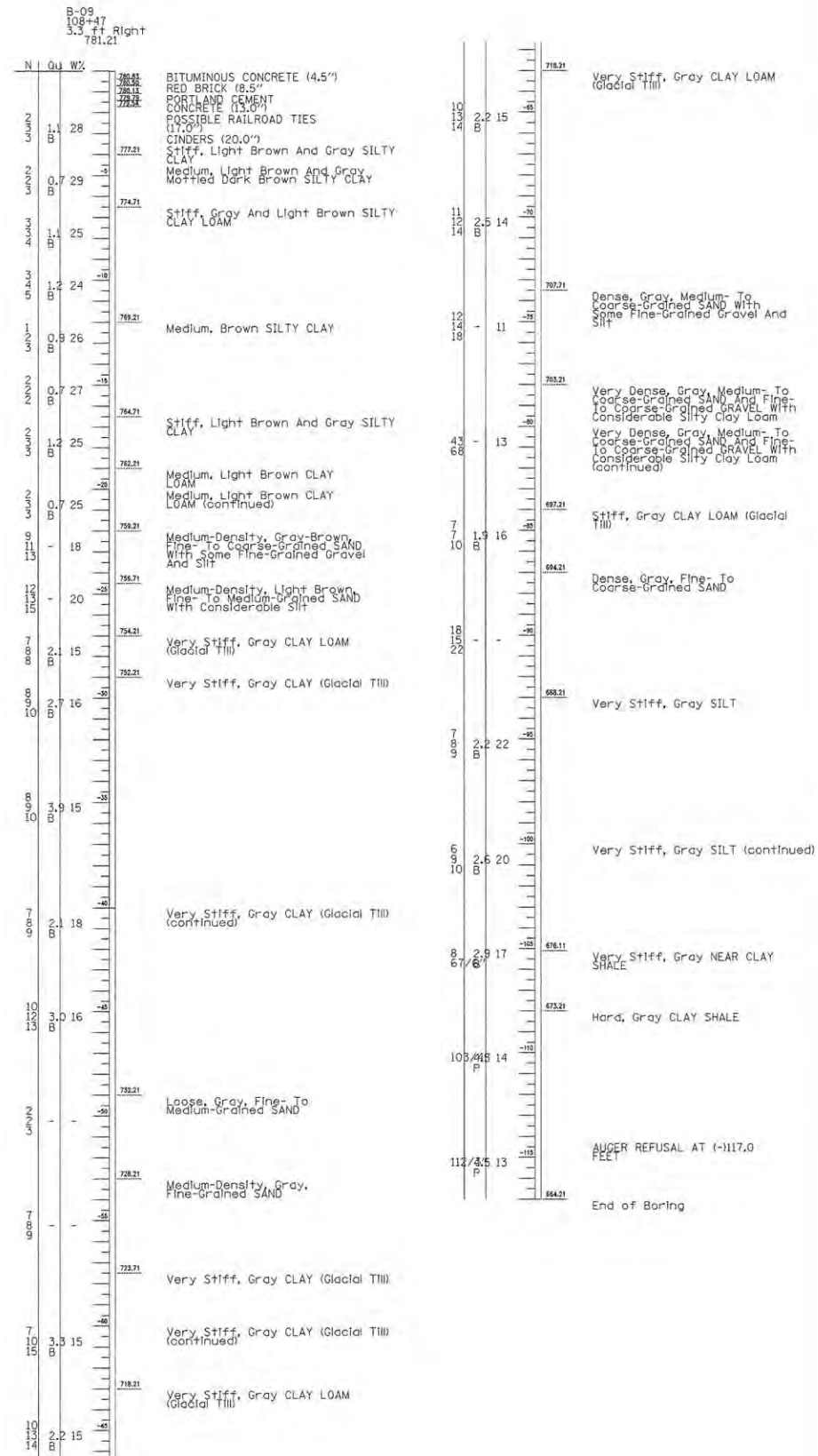
BORING LOGS (SHEET 1 OF 2)  
STRUCTURE 048-9928  
SHEET NO. 47 OF 48 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-0050-19-GS	KNOX	216	127
CONTRACT NO. 89417				
ILLINOIS FED. AID PROJECT				

**B-09 BORING LOG**

**B-10 BORING LOG**

**B-20 BORING LOG**



*Note:*  
See Sheet 1 for location of borings.

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	REVIEWED -	MAF	REVISI	-
PLOT SCALE =	1:80000 '1' = 1/8"	DRAWN -	GTJ	REVISED -	-
PLOT DATE =	11/13/2015	CHECKED -	MAF	REVISED -	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6R00	05-00500-19-GS	KNOX	216	128
CONTRACT NO.				89417
ILLINOIS FED. AID PROJECT				

SHEET NO. 48 OF 48 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 Structures: None

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

Salvages: 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 2011 BY  
 CITY OF GALLSBURG  
 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.

**LIGHTING**

Location	Offset
Sta 103+84.27	51.28' LT
Sta 104+84.26	50.58' LT

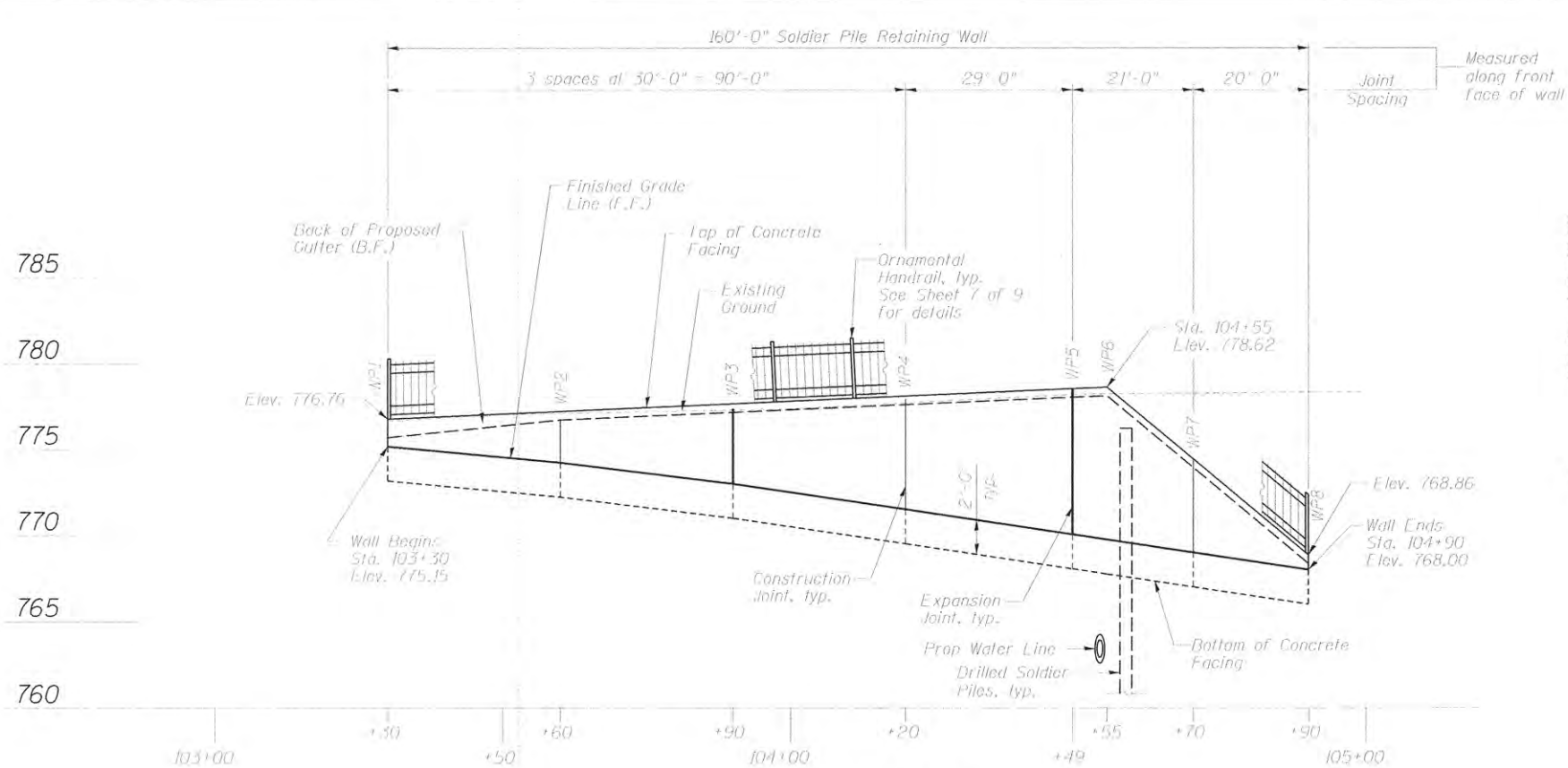
**LEGEND**

- F.F. Front Face
- B.F. Back Face
- SB 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

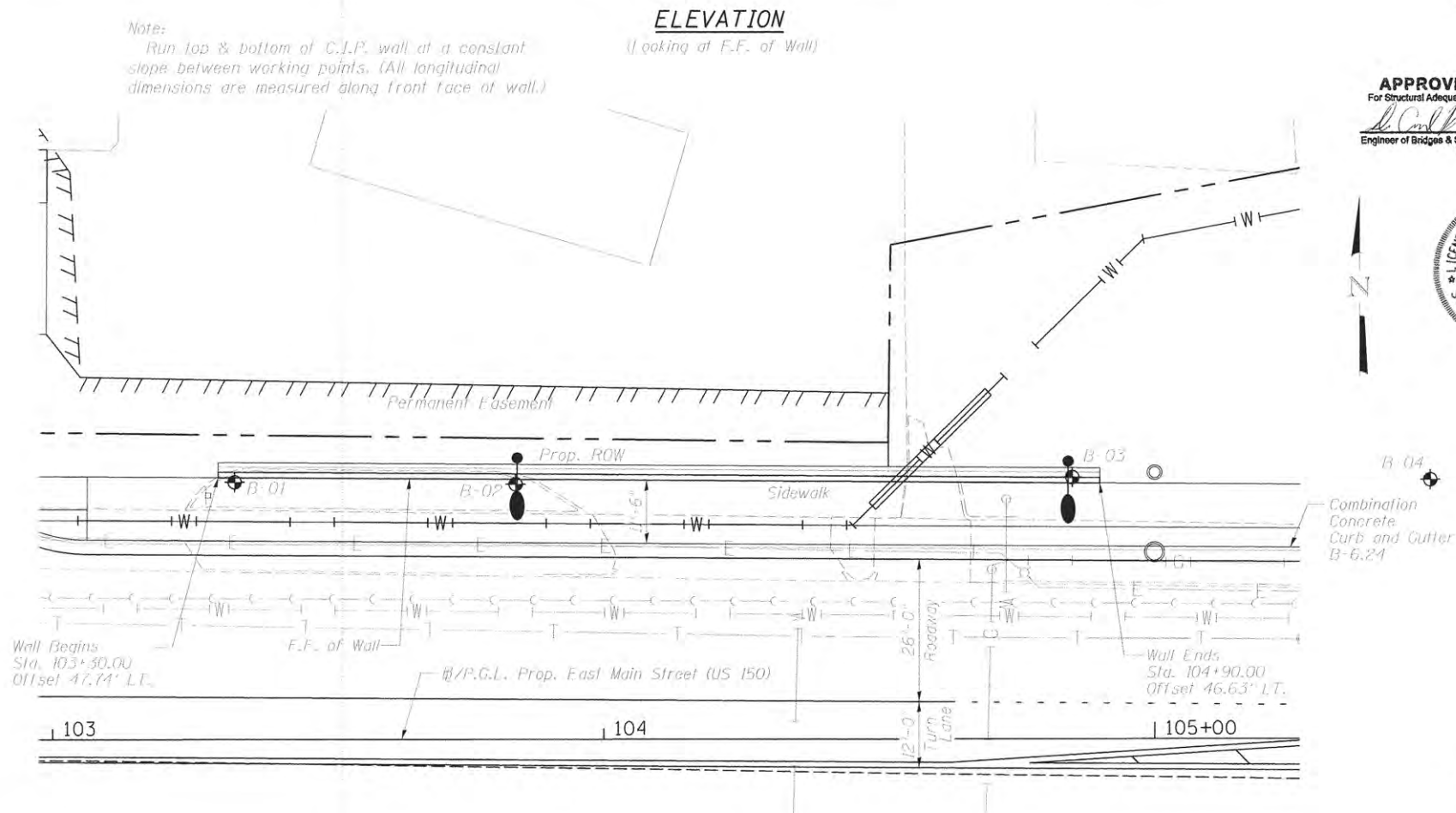
**WORK POINTS AND WALL ELEVATIONS**

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	774.13	769.00	773.93
8	104+90.00	46.63	768.86	768.00	768.36

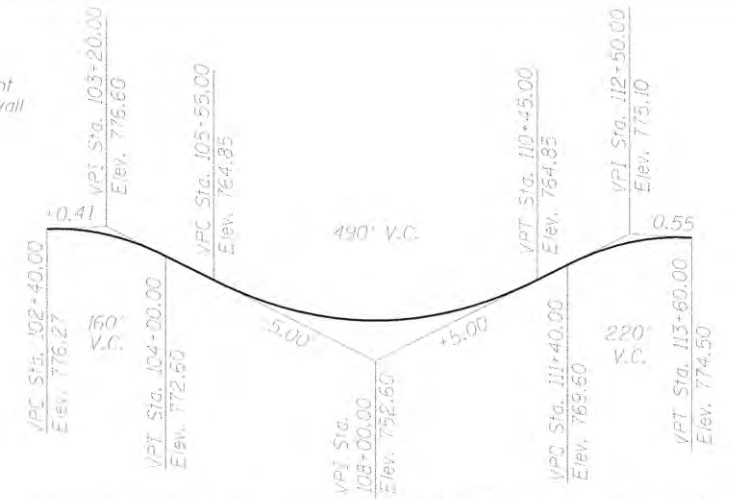
Note:  
 All offsets are measured from P.G.L. East Main Street to front face of wall.



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**

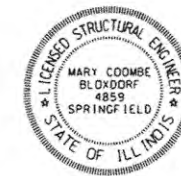
2012 AASHTO LRFD Bridge Design Specifications  
 6th Edition with 2013 Interims

**DESIGN STRESSES**

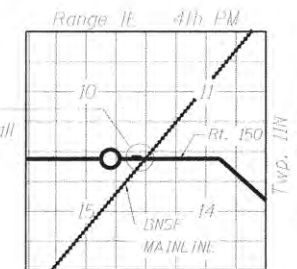
**FIELD UNITS**

- $f'_c = 3,500$  psi
- $f_y = 60,000$  psi (Reinforcement)
- $f_y = 36,000$  psi (Soldier Piles)
- AASHTO M270 Grade 36

APPROVED  
 For Structural Adequacy Only  
 D. Carl Krueger  
 Engineer of Bridges & Structures



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



**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**

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

USER NAME: jacob@00846  
 PROJECT: 05-00500-19-GS  
 DATE: 11/16/2015

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

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 9 SHEETS

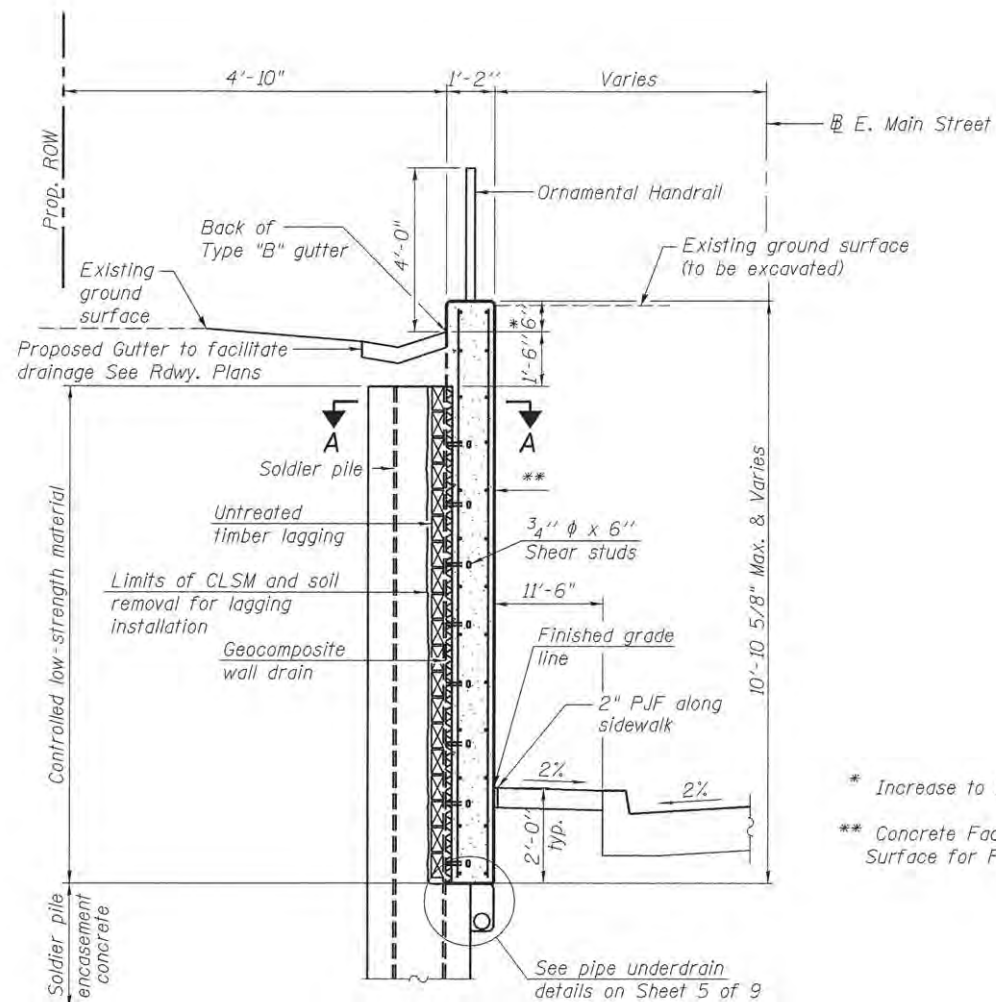
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6800	05-00500-19-GS	KNOX	216	129

CONTRACT NO. 89417  
 ILLINOIS FED. AID PROJECT

**PILE SCHEDULE**

Soldier Pile No.	Size	Station	Offset	Top of Pile Elevation	Bottom of Pile Elevation	Pile Length	No. of Studs Per Pile
1	W21x68	103+34.00	49.76	774.32	757.32	17	2
2	W21x68	103+45.00	49.69	774.69	756.69	18	2
3	W21x68	103+56.00	49.61	775.07	757.07	18	3
4	W21x68	103+64.00	49.55	775.26	754.26	21	3
5	W21x68	103+75.00	49.48	775.43	751.43	24	4
6	W24x94	103+86.00	49.53	775.59	743.59	32	5
7	W21x68	103+93.75	49.34	775.71	748.71	27	5
8	W21x68	104+01.25	49.29	775.82	748.82	27	5
9	W21x68	104+08.75	49.24	775.93	746.93	29	6
10	W21x68	104+16.25	49.19	776.04	745.04	31	6
11	W24x94	104+24.75	49.26	776.17	741.17	35	7
12	W24x94	104+34.50	49.19	776.31	740.31	36	8
13	W24x94	104+44.25	49.12	776.46	738.46	38	8
14	W24x94	104+50.50	49.08	776.55	737.55	39	9
15	W24x94	104+60.00	49.01	775.22	739.22	36	8
16	W24x94	104+66.67	48.97	773.36	738.36	35	6
17	W21x68	104+74.50	48.78	771.18	746.18	25	5
18	W24x94	104+85.50	48.84	768.11	743.11	25	2

Offsets are from  $\text{E}$  Proposed East Main St. to  $\text{C}$  Pile



**SECTION THRU SOLDIER PILE WALL**

Sta. 103+10 to 104+90 (Looking East)  
See Sheet 5 of 9 for Section A-A

**SEQUENCE OF CONSTRUCTION**

1. Drill shaft excavation for Soldier Piles to the elevation shown on the plans and set soldier piles in excavation.
2. Place soldier pile encasement concrete to the bottom of facing elevation at each pile location. Place Controlled Low Strength Material (CLSM) to the elevation of the top of pile at each pile location.
3. Excavation in front of the wall will proceed to the bottom of the facing by installing timber lagging downward according to the Special Provision for the Drilled Soldier Pile Retaining Wall.
4. Once the excavation is complete the cast in place facing shall be installed.

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.  
Existing ground at the east end of the wall shall be graded to the top of pile elevations before drilling the shafts for the soldier piles. Cost is included with Drilling and Setting Soldier Piles (In Soil).  
See Roadway Plans for Form Liner Textured Surface.

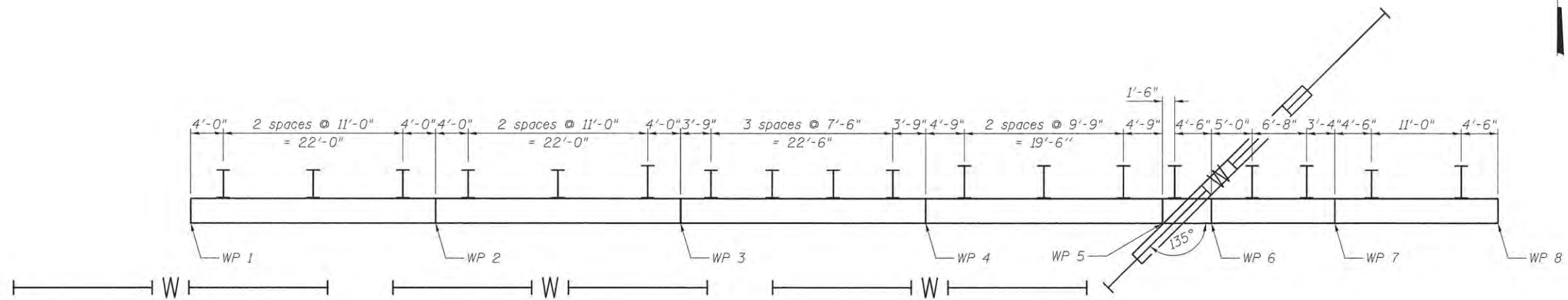
\* Increase to 1'-1" at West End of Wall

\*\* Concrete Facing with Form Liner Textured Surface for Full Height of Wall

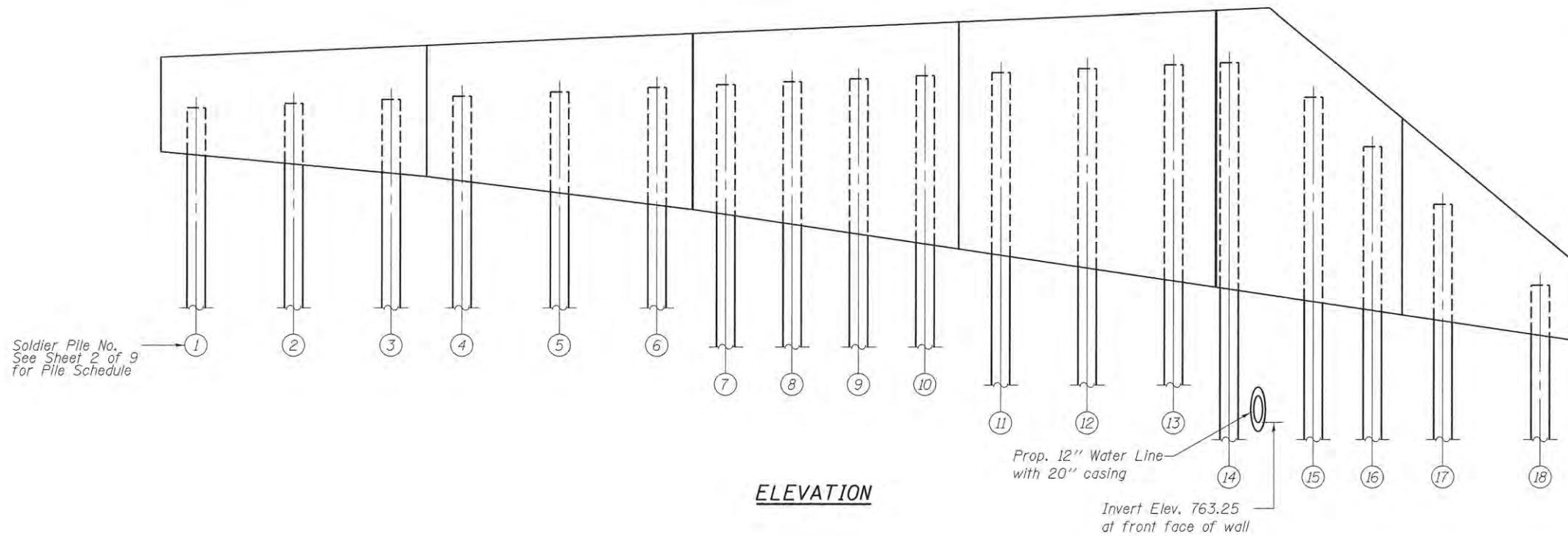
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	148
Furnishing Soldier Piles (W Section)	Foot	505
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	3058
Concrete Structures	Cu. Yd.	48.3
Pipe Underdrains for Structures 4"	Foot	160
Geocomposite Wall Drain	Sq. Yd.	70
Concrete Sealer	Sq. Ft.	795
Reinforcement Bars, Epoxy Coated	Lbs.	6260
Untreated Timber Lagging	Sq. Ft.	749
Name Plates	Each	1
Stud Shear Connectors	Each	94
Ornamental Handrail	Foot	160
Form Liner Textured Surface	Sq. Ft.	1114

FILE NAME = C:\Users\jsh36\Documents\Projects\Illinois\Structure\Combe-Bloxdorf\Sheets\048-8504-89417-002-genr-notes



**PLAN**  
(showing pile spacing)



**ELEVATION**

**Notes:**  
The proposed water line shall be in place before drilling the holes for the soldier piles. It is the Contractor's responsibility to ensure that the construction methods and equipment required for wall construction will not interfere with the water line. Cost included with Drilling and Setting Soldier Piles (In Soil).  
See Sheet 2 of 9 for Soldier Pile Wall Sequence of Construction.

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PROJECT NO. 11958

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

USER NAME = andr00846  
DESIGNED - AMC  
CHECKED - MCB  
DRAWN - MMY  
PLOT SCALE = 8,000 1 / in.  
PLOT DATE = 11/13/2015

DESIGNED - AMC  
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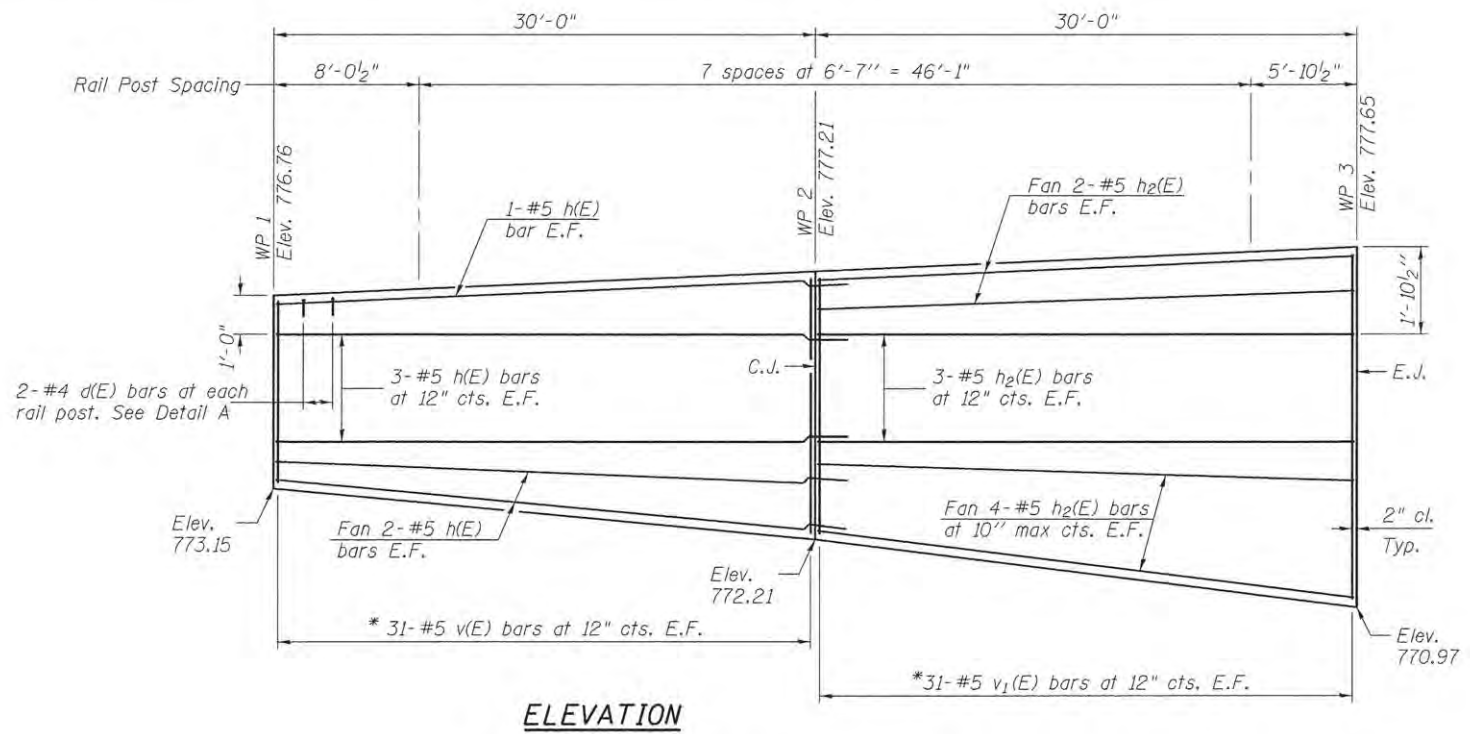
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOLDIER PILE LAYOUT  
STRUCTURE NO. 048-8504**

SHEET NO. 3 OF 9 SHEETS

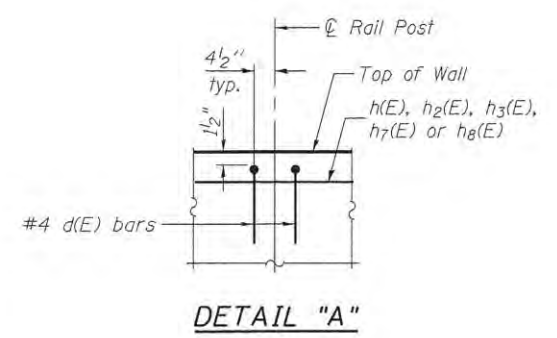
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CONTRACT NO. 89417				
(ILLINOIS) FED. AID PROJECT				



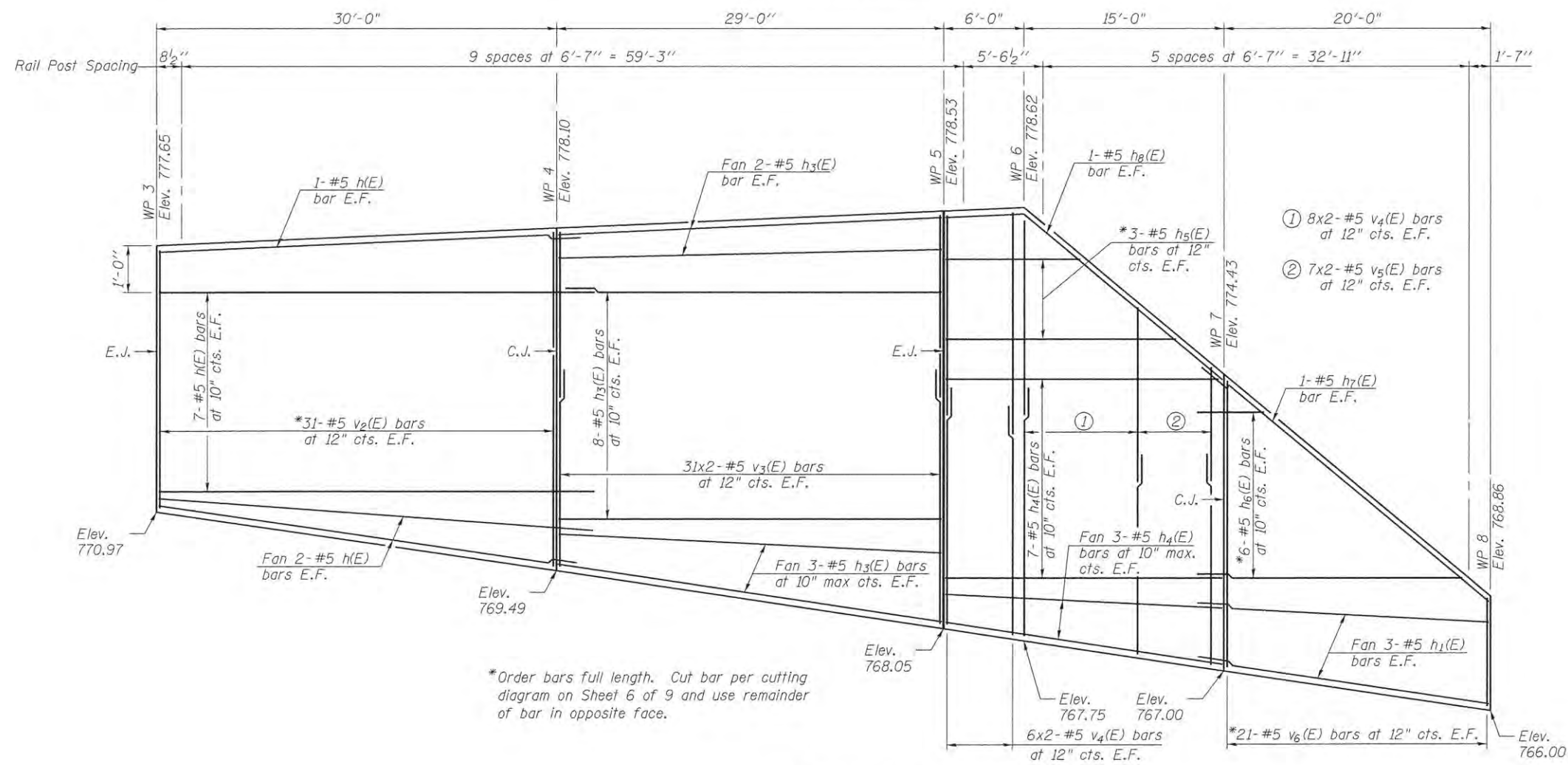
**ELEVATION**

**MIN. BAR LAP**  
#5 bar = 2'-11"

**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.

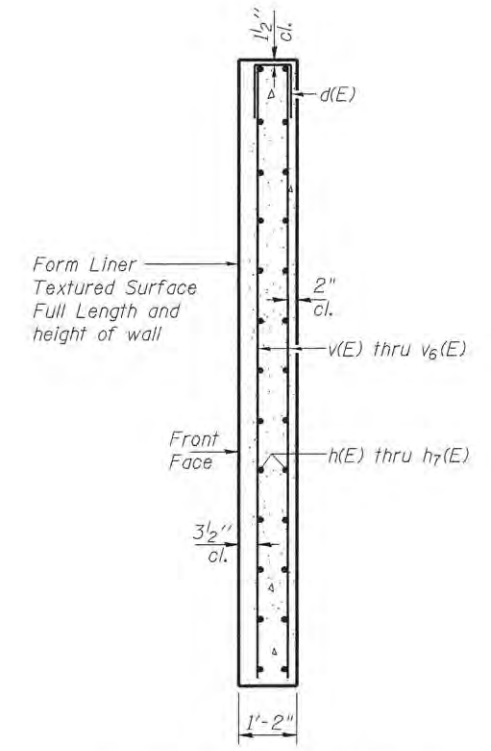


**DETAIL "A"**



**ELEVATION**

\*Order bars full length. Cut bar per cutting diagram on Sheet 6 of 9 and use remainder of bar in opposite face.



**SECTION THRU FACING**

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 CB PROJECT NO 11858

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

USER NAME = andr02846	DESIGNED -	REVISD -
PLOT SCALE = 5/4.000 1/4" = 1/4"	CHECKED -	REVISD -
PLOT DATE = 11/13/2015	DRAWN -	REVISD -
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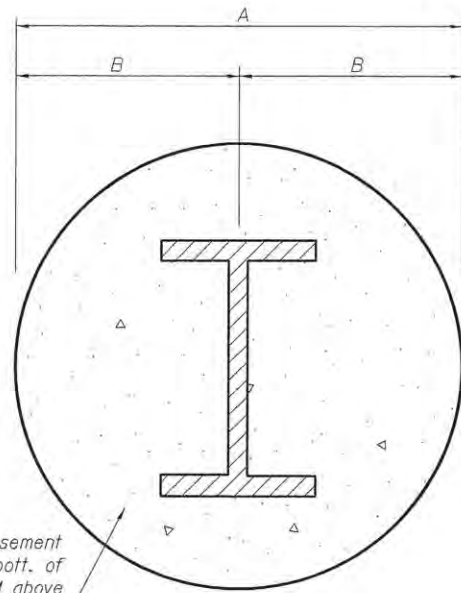
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

SHEET NO. 4 OF 9 SHEETS

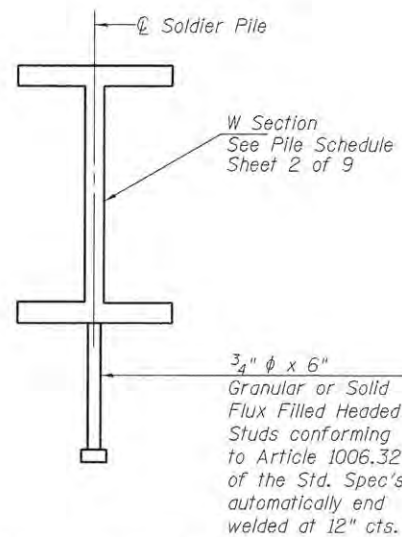
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6800	05-00500-19-GS	KNOX	216	132
CONTRACT NO. 89417			ILLINOIS FED. AID PROJECT	





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

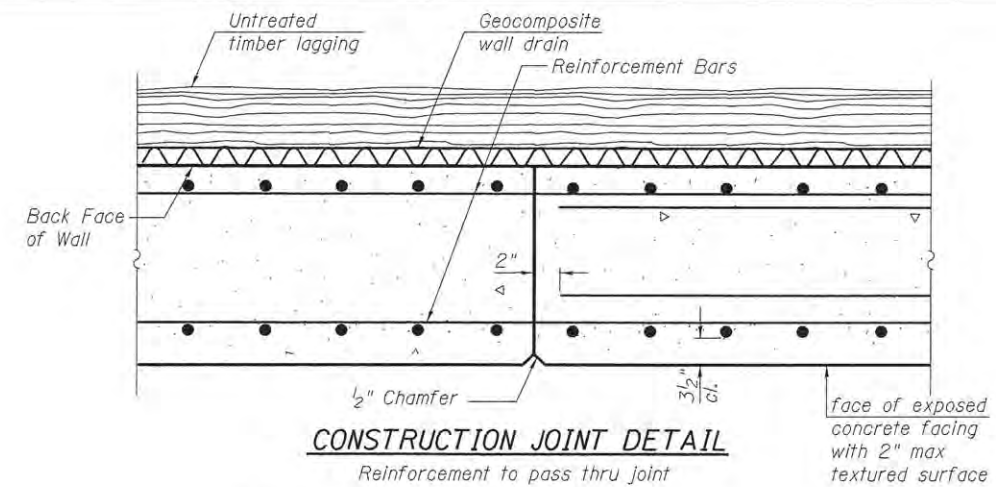
**SECTION THRU SOLDIER PILE**



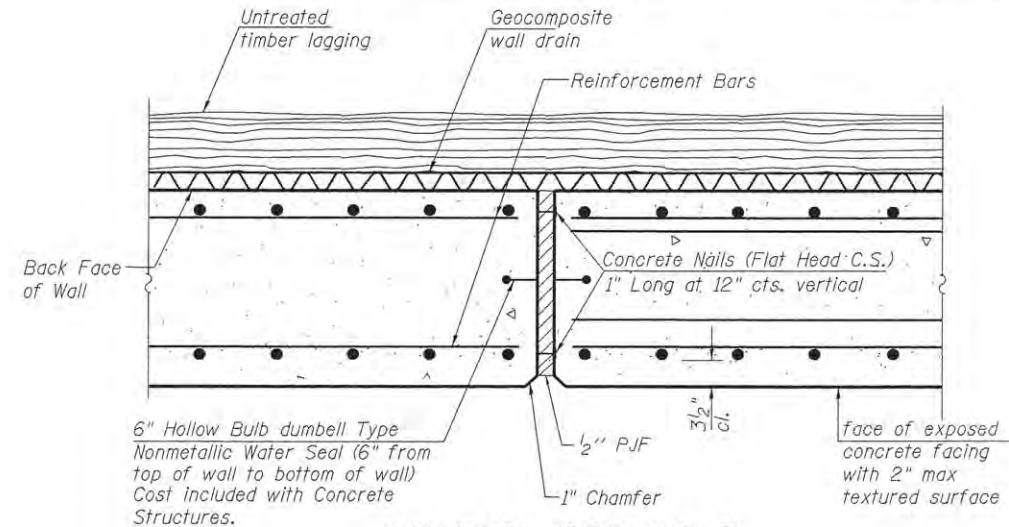
**SOLDIER PILE DETAIL**

**A & B DIMENSIONS**

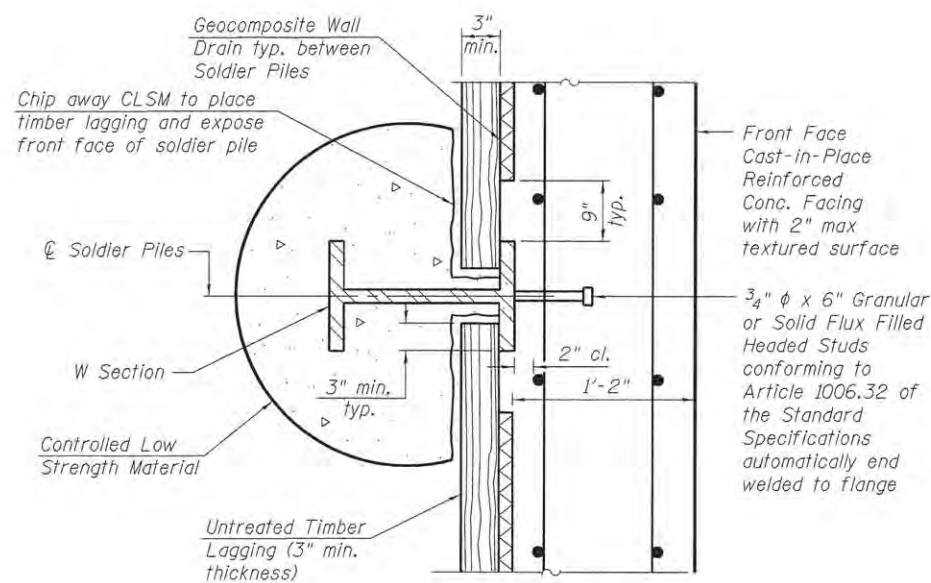
Pile	A	B
W21x68	2'-6"	1'-3"
W24x94	3'-0"	1'-6"



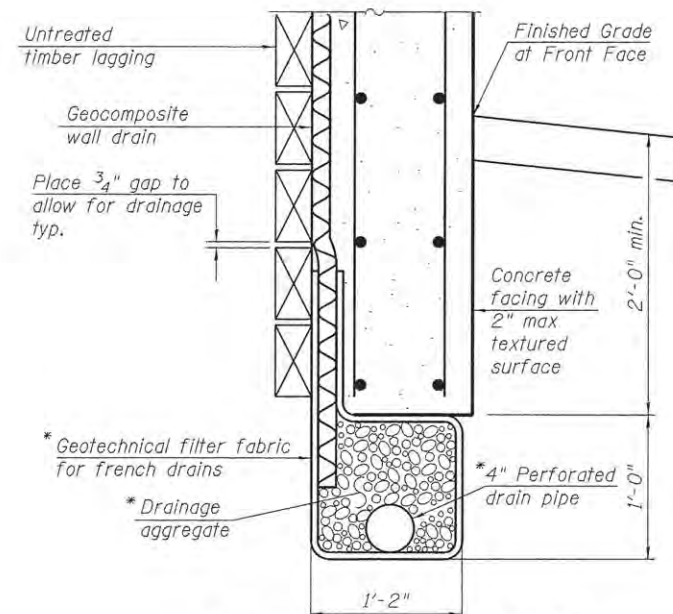
**CONSTRUCTION JOINT DETAIL**



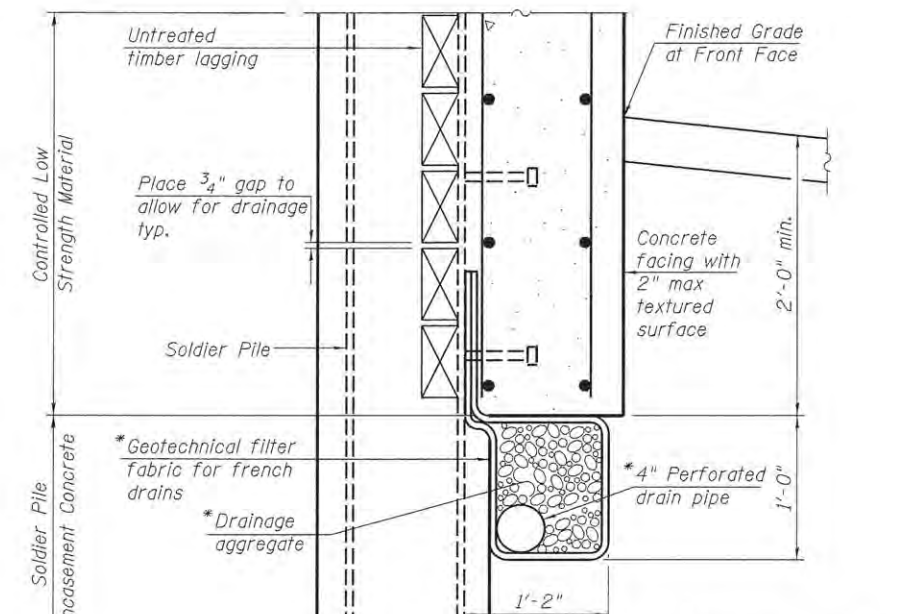
**EXPANSION JOINT DETAIL**



**SECTION A-A**



**BETWEEN SOLDIER PILES**

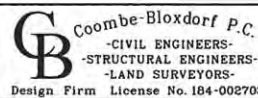


**AT SOLDIER PILES**

**PIPE UNDERDRAIN DETAILS**

\* Included in the cost of Pipe Underdrains for Structures

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 PLOT DATE = 11/13/2015

DESIGNED - AMC  
 CHECKED - MCB  
 DRAWN - MMY  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

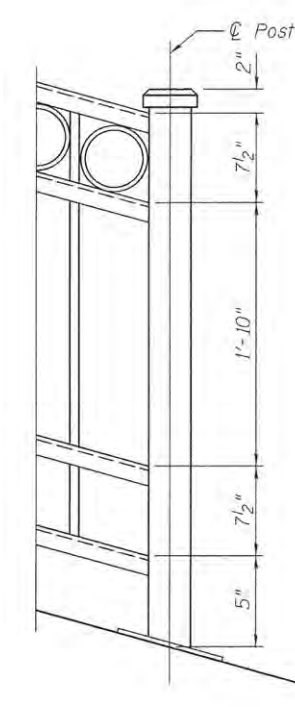
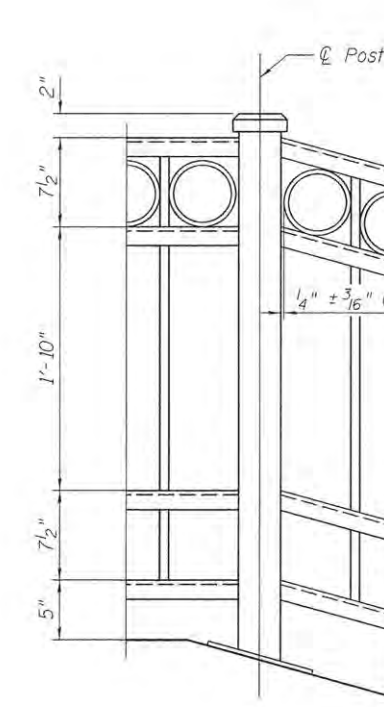
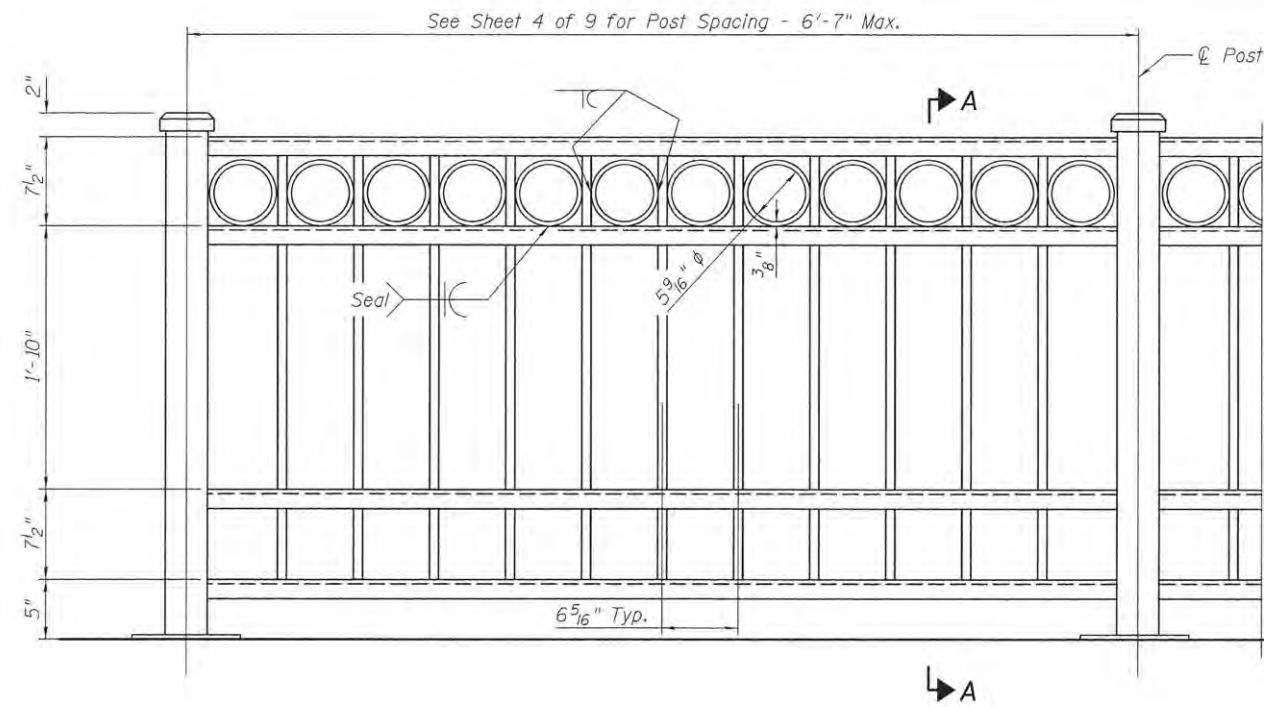
WALL DETAILS  
 STRUCTURE NO. 048-8504

SHEET NO. 5 OF 9 SHEETS

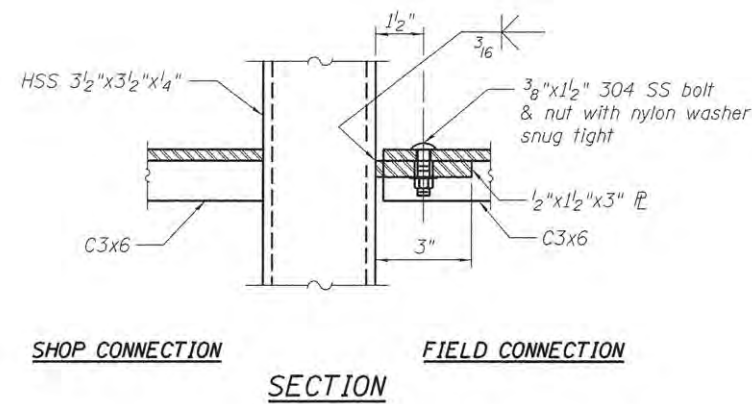
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CONTRACT NO. 89417				

ILLINOIS FED. AID PROJECT





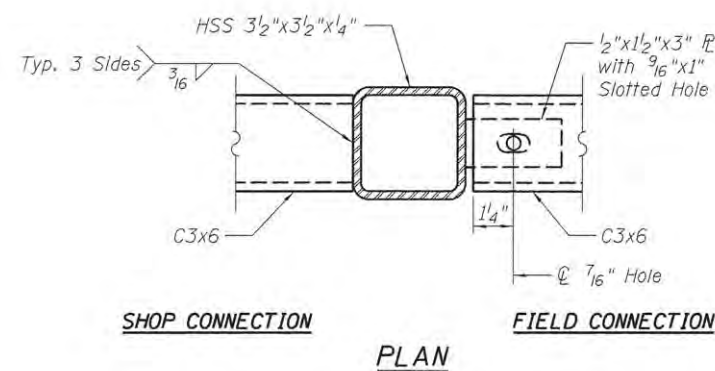
**ELEVATION**



**SHOP CONNECTION**

**FIELD CONNECTION**

**SECTION**

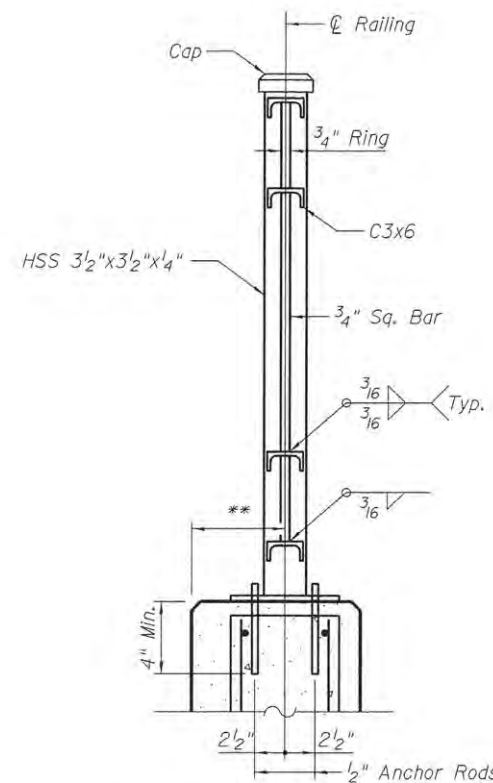


**SHOP CONNECTION**

**FIELD CONNECTION**

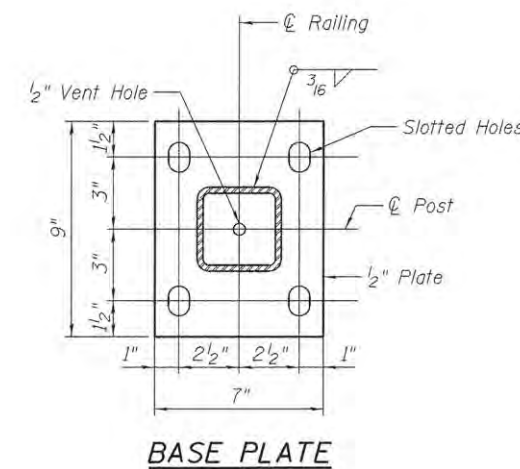
**PLAN**

**RAIL TO POST CONNECTION DETAILS**



**SECTION A-A**

\*\* Adjust to fit between reinforcement



**BASE PLATE**

**NOTES**

- 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 wall, and posts are to be installed level, plumb and true.
- 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**

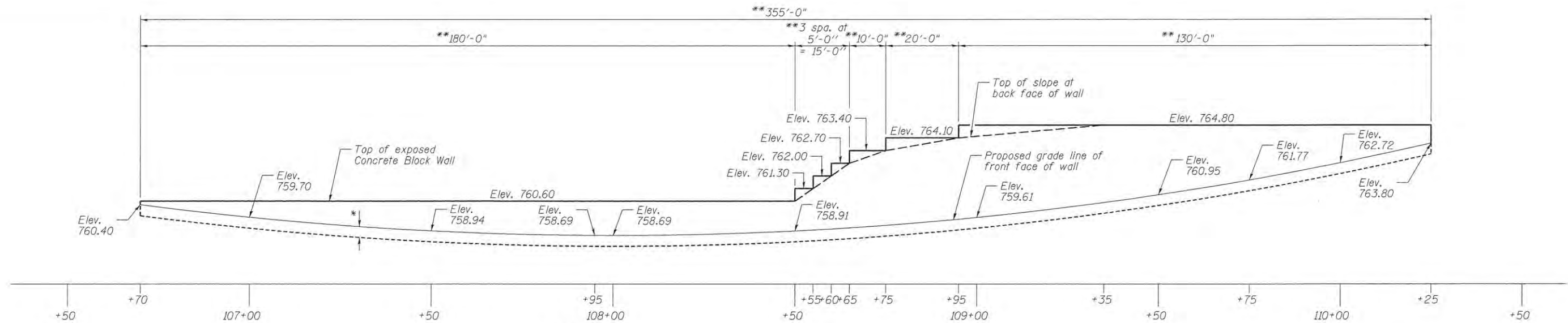
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				





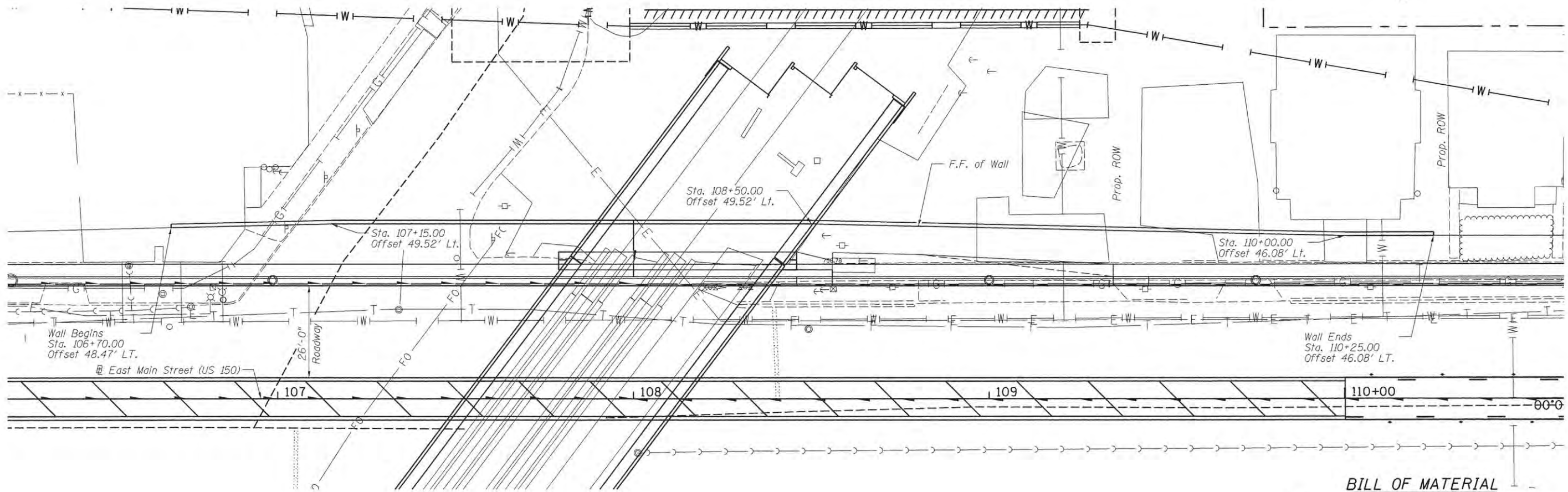
768  
766  
764  
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760  
758  
756



**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  $\square$

**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  $\square$  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

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CB PROJECT NO. 11868

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

USER NAME = ande-00846  
DESIGNED - AMC  
CHECKED - MCB  
DRAWN - MMY  
CHECKED - MCB  
PLOT SCALE = 15.000" / 1"  
PLOT DATE = 11/17/2015

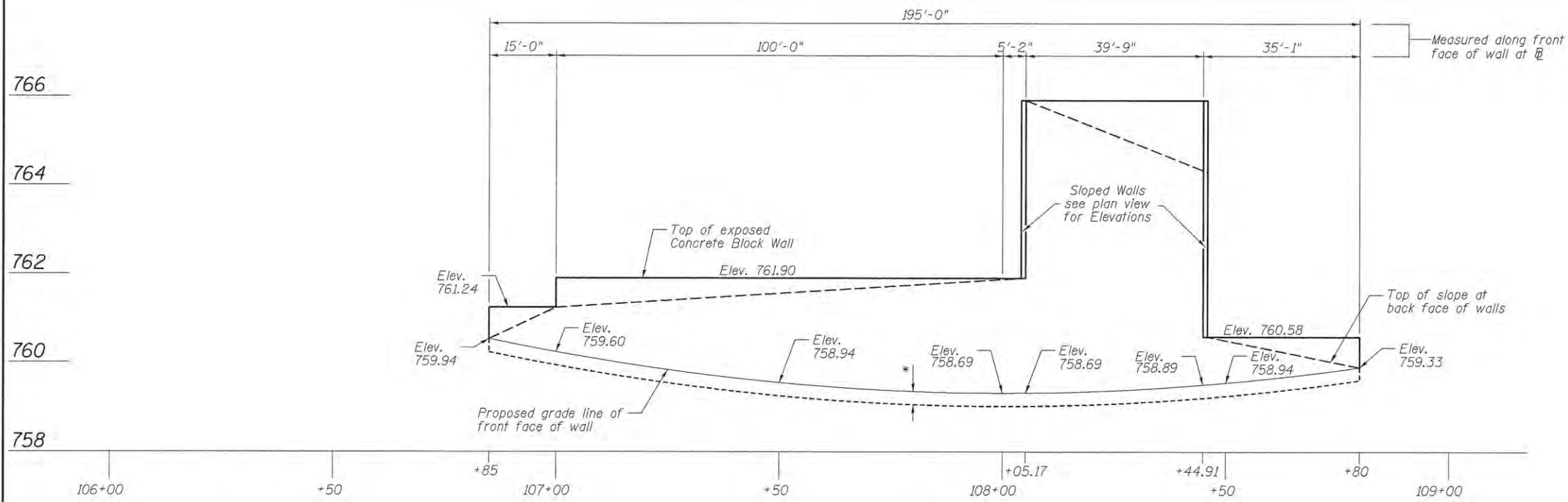
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REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**NORTH SEGMENTAL CONCRETE BLOCK WALL  
EAST MAIN STREET (US 150) - LT. STA. 106 + 70.00 TO 110 + 25.00**

SHEET NO. 1 OF 3 SHEETS

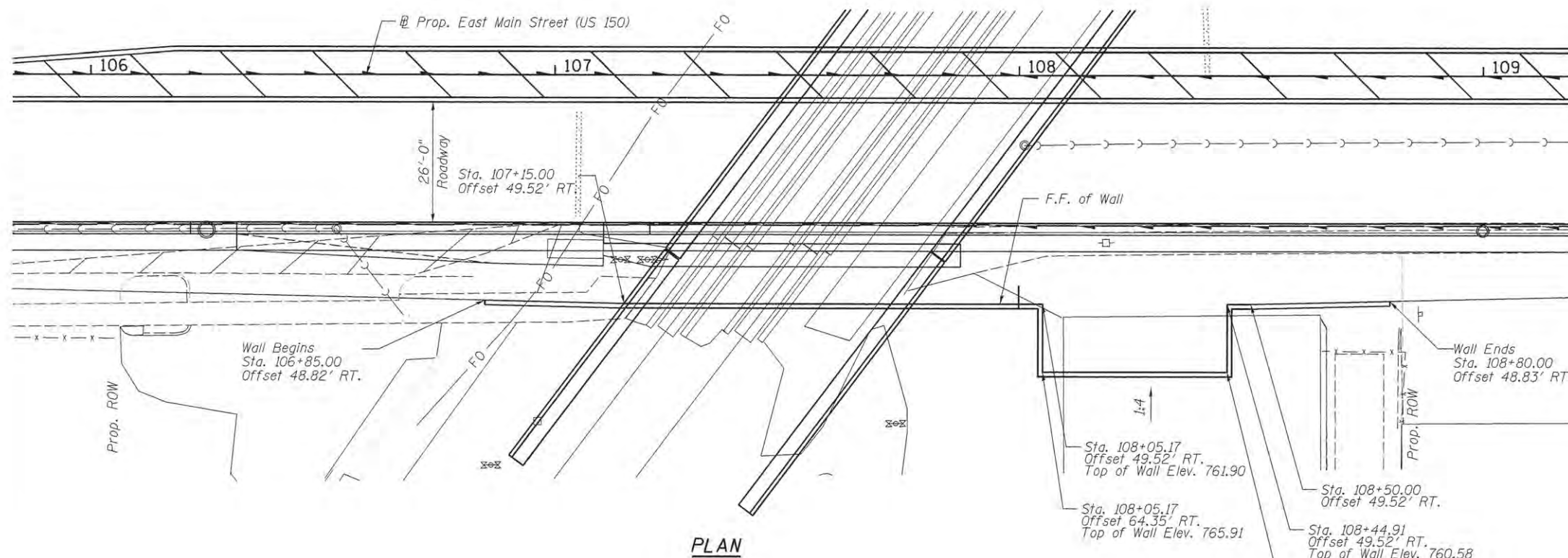
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	138
				CONTRACT NO. 89417
ILLINOIS FED. AID PROJECT				



\* 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

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 PROJECT NO. 11668

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

USER NAME = andr00846  
 PLOT SCALE = 15.000' / in.  
 PLOT DATE = 11/13/2015

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

REVISED -  
 REVISED -  
 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	216	139

CONTRACT NO. 89417

ILLINOIS FED. AID PROJECT





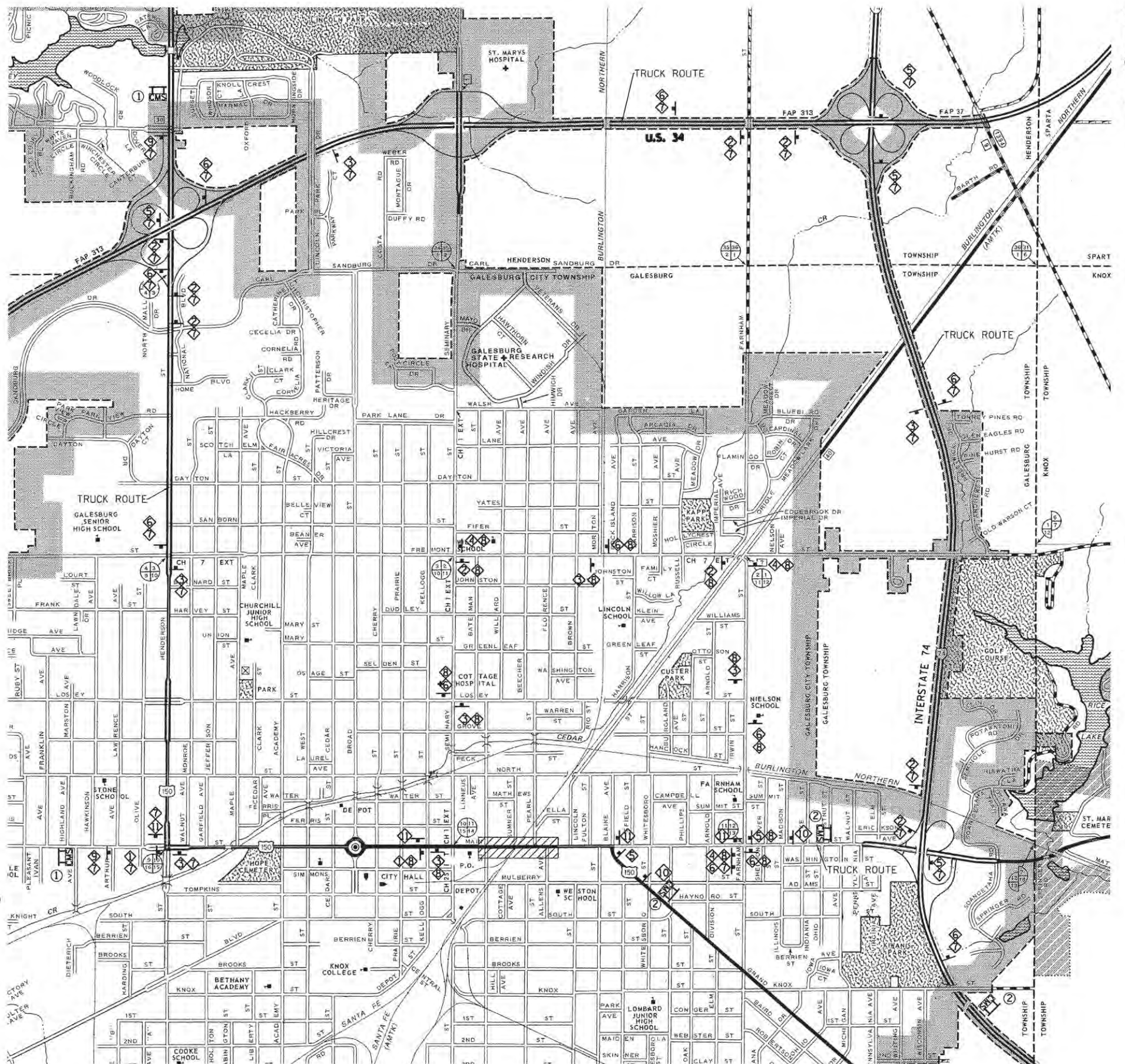
**DETOUR LEGEND**

- ◊ 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 R5-2a

- ◻ 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



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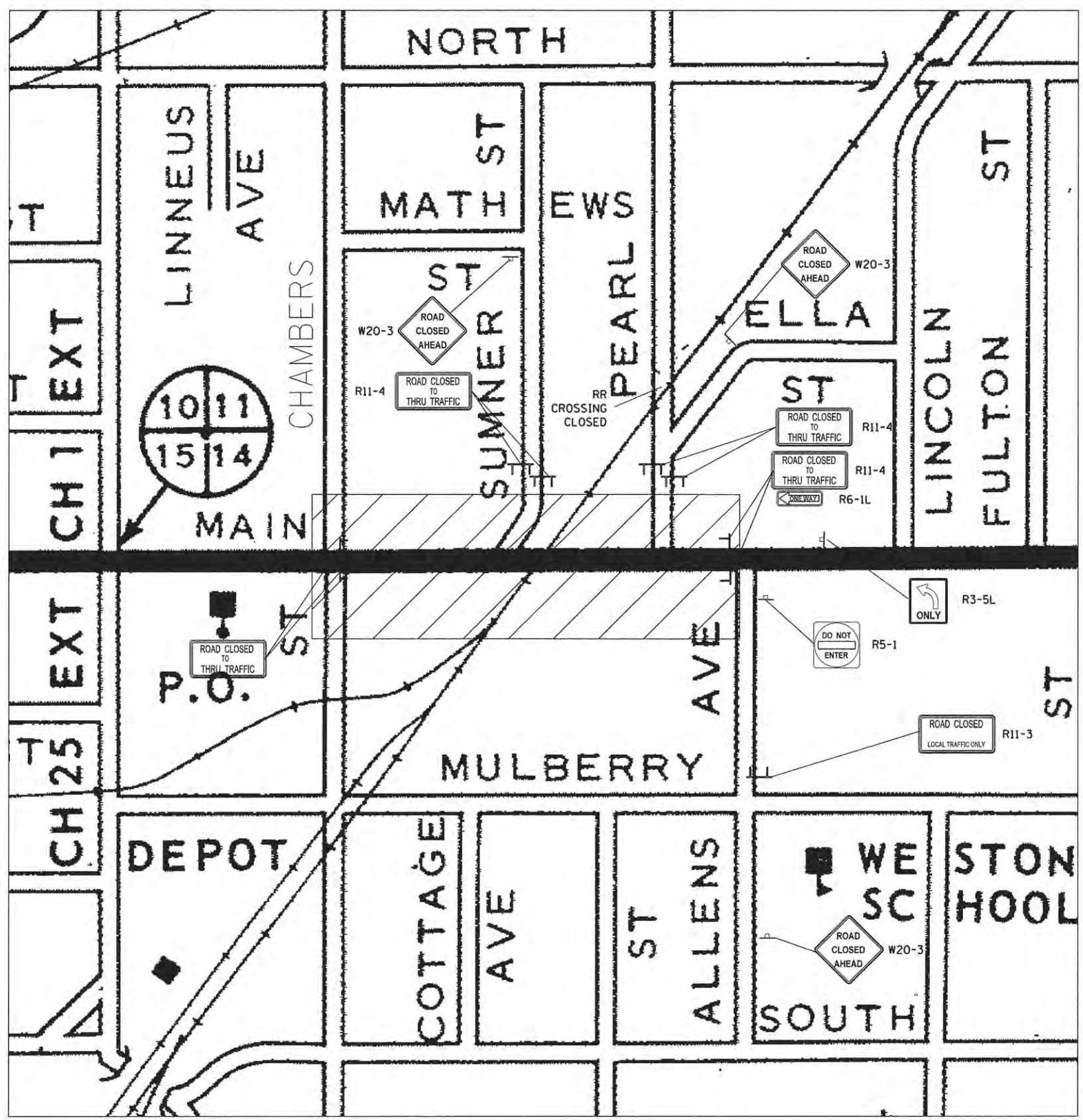
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN  
 DETOUR SIGNAGE**

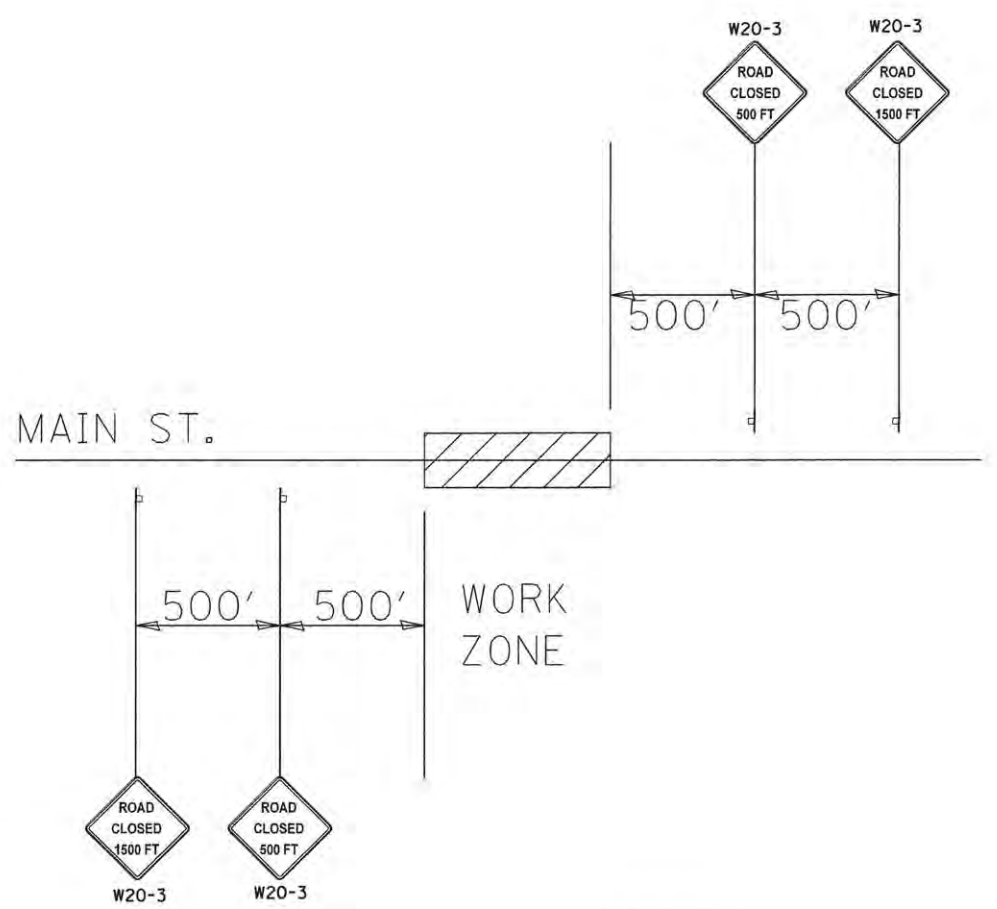
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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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.
3. THE INTERSECTION OF MAIN STREET AND ALLENS AVENUE SHALL BE CONSTRUCTED UNDER TRAFFIC, ONE LANE OF SOUTHBOUND TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL SCHEDULE THE WORK ACCORDINGLY.

LAYOUT	
DRAWN	
REVIEWED	

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN  
DETOUR SIGNAGE

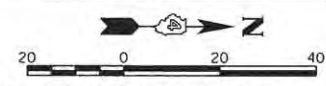
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	142
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

**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

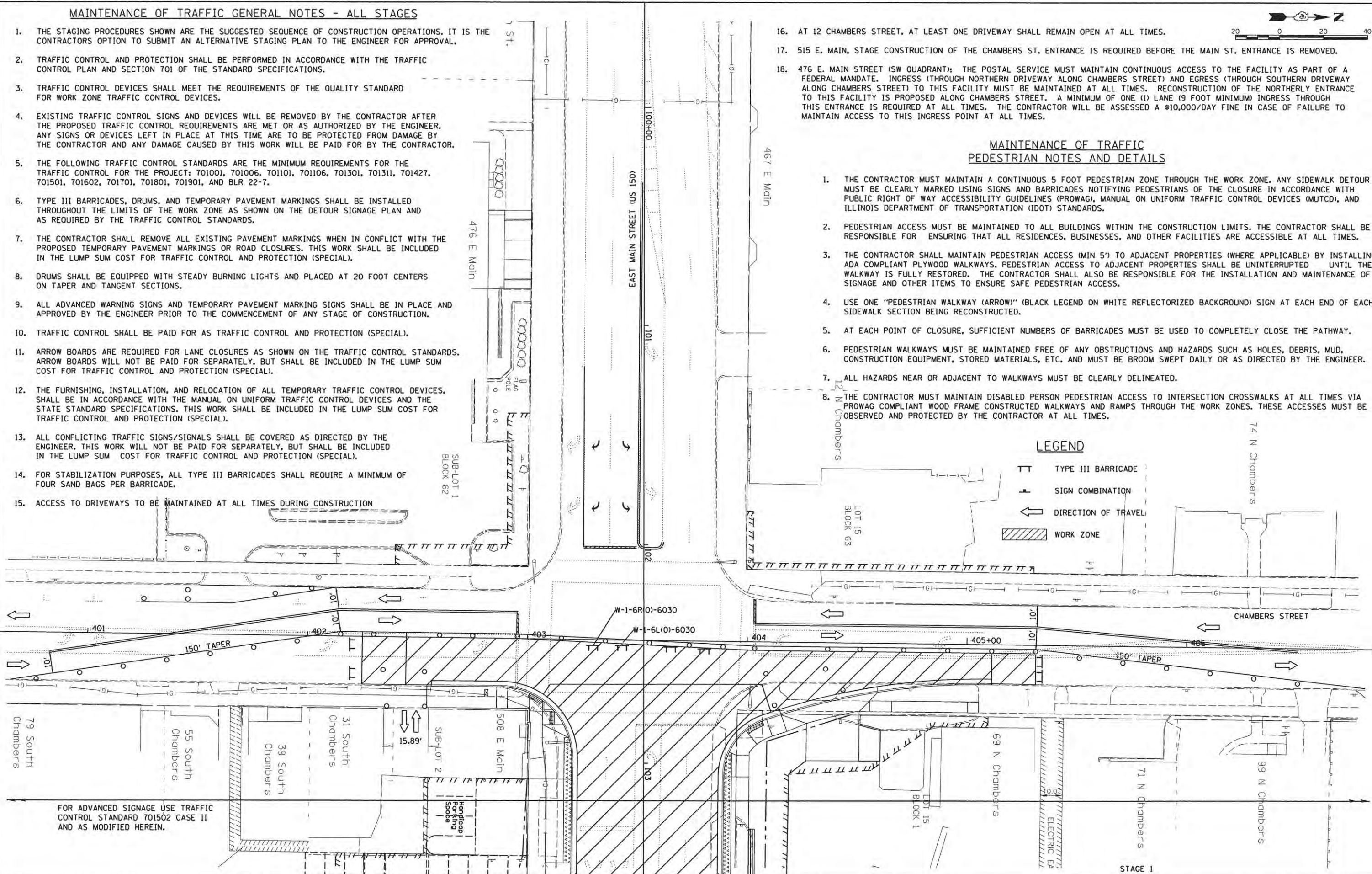
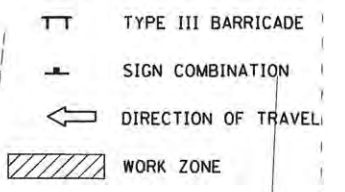
16. AT 12 CHAMBERS STREET, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN AT ALL TIMES.
17. 515 E. MAIN, STAGE CONSTRUCTION OF THE CHAMBERS ST. ENTRANCE IS REQUIRED BEFORE THE MAIN ST. ENTRANCE IS REMOVED.
18. 476 E. MAIN STREET (SW QUADRANT): THE POSTAL SERVICE MUST MAINTAIN CONTINUOUS ACCESS TO THE FACILITY 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**



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



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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

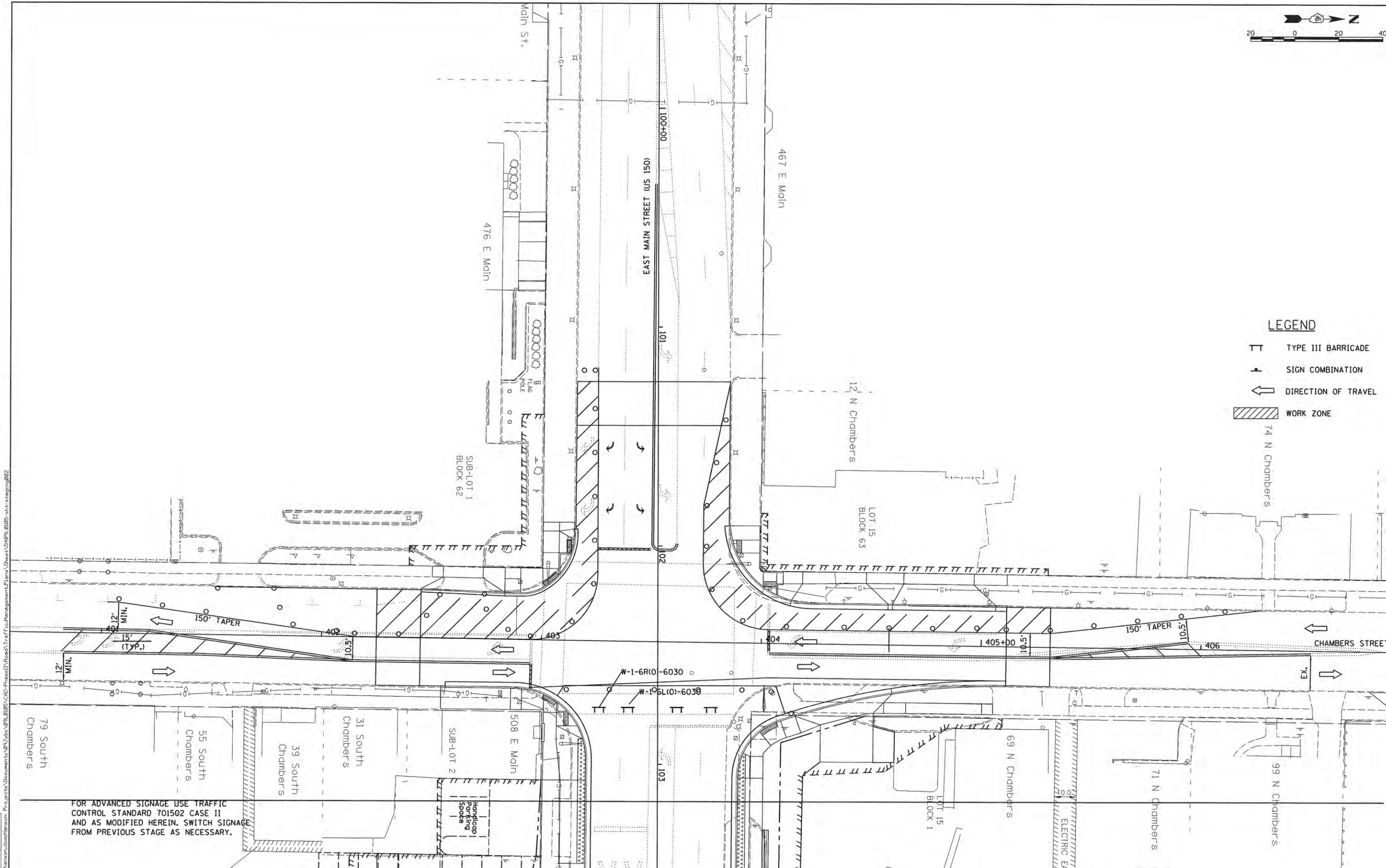
**CHAMBERS STREET CONSTRUCTION STAGING**

SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	143
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**LEGEND**

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



STAGE 2

LAYOUT	
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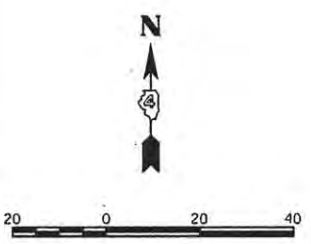
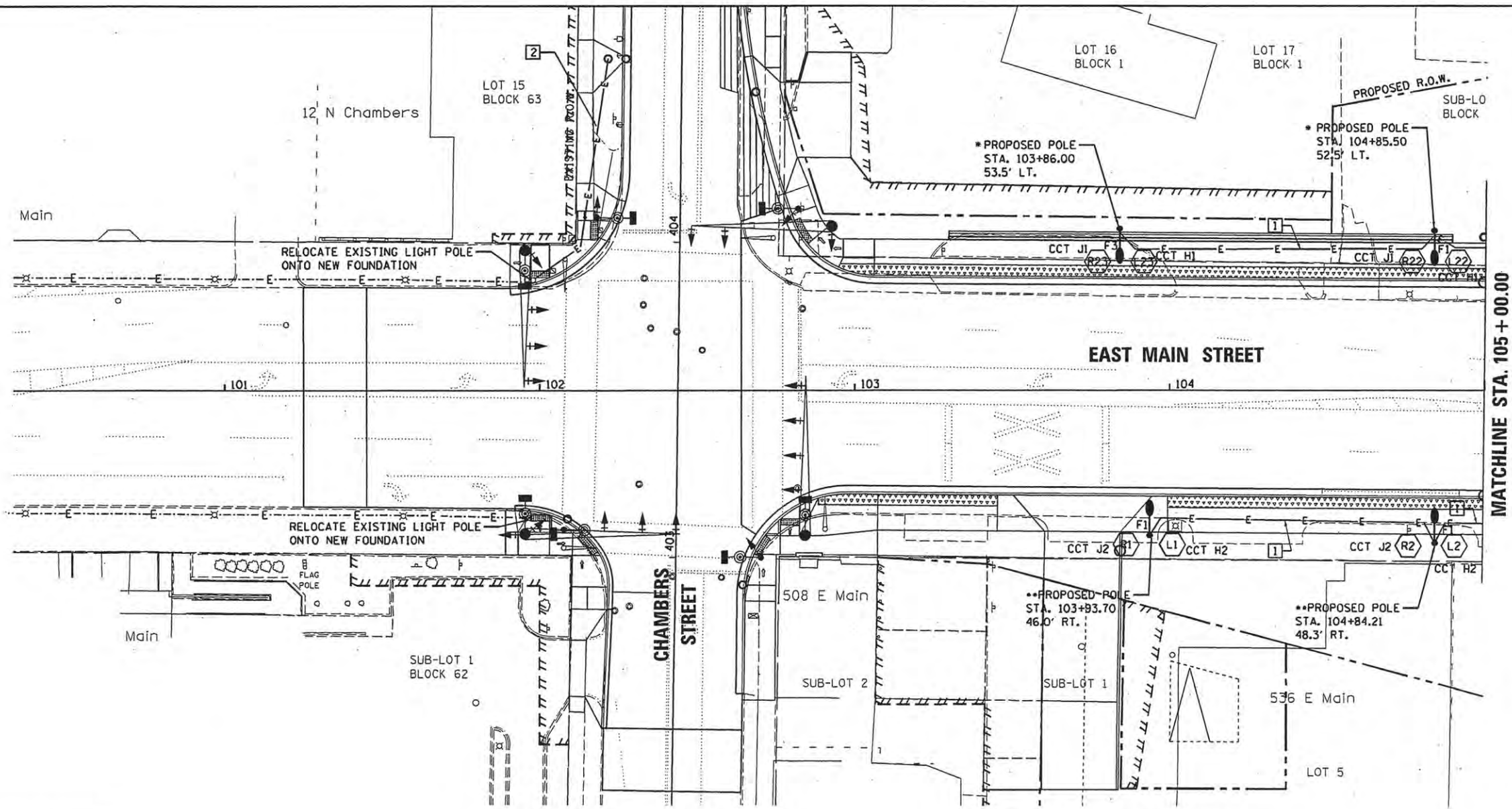
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DATE - 9/9/2015	REVISED -

**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	216	144
	50VB			CONTRACT NO.89417
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**LEGEND**

- E— PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AND TYPE AS INDICATED
- - -E- - - PROPOSED CONDUIT ATTACHED TO STRUCTURE, SIZE AND TYPE AS INDICATED
- ⊕ PROPOSED ORNAMENTAL LIGHT UNIT, COMPLETE
- ⊞ PROPOSED LIGHTING CONTROLLER WITH FOUNDATION
- ⊞ EXISTING ROADWAY LIGHT POLE/FIXTURE
- ⊕ PROPOSED ELECTRIC SERVICE INSTALLATION, 100A, 120/240V, SINGLE PHASE
- ⊞ PROPOSED JUNCTION BOX
- LX LIGHTING POLE TAG/SEQUENCE NUMBER
- RX FESTOON RECEPTACLE TAG/SEQUENCE NUMBER
- LUX UNDERPASS LUMINAIRE TAG/SEQUENCE NUMBER
- LBX DECORATIVE BRIDGE LUMINAIRE TAG/SEQUENCE NUMBER
- - -E- - - EXISTING ELECTRICAL CABLE IN CONDUIT

- PLAN KEYED NOTES:**
- 1 LTG 2\*8, \*8 GRD, RCPT 2\*6, 2"C. PVC.
  - 2 LTG 2\*8, \*8 GRD, 1"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 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. GROUNDING RODS SHALL BE AWAY FROM WALL.
- \*\* POLE SHALL BE PLACED DIRECTLY BEHIND PROPOSED SIDE WALK. CONTRACTOR SHALL COORDINATE FOUNDATION WITH SIDEWALK LAYOUT.

- LIGHTING GENERAL NOTES:**
1. UTILIZE 2-POLE FUSE HOLDER WITH SOLID NEUTRAL INPOLE HANDHOLE FOR RECEPTACLE WIRING.

LAYOUT	
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REVIEWED	

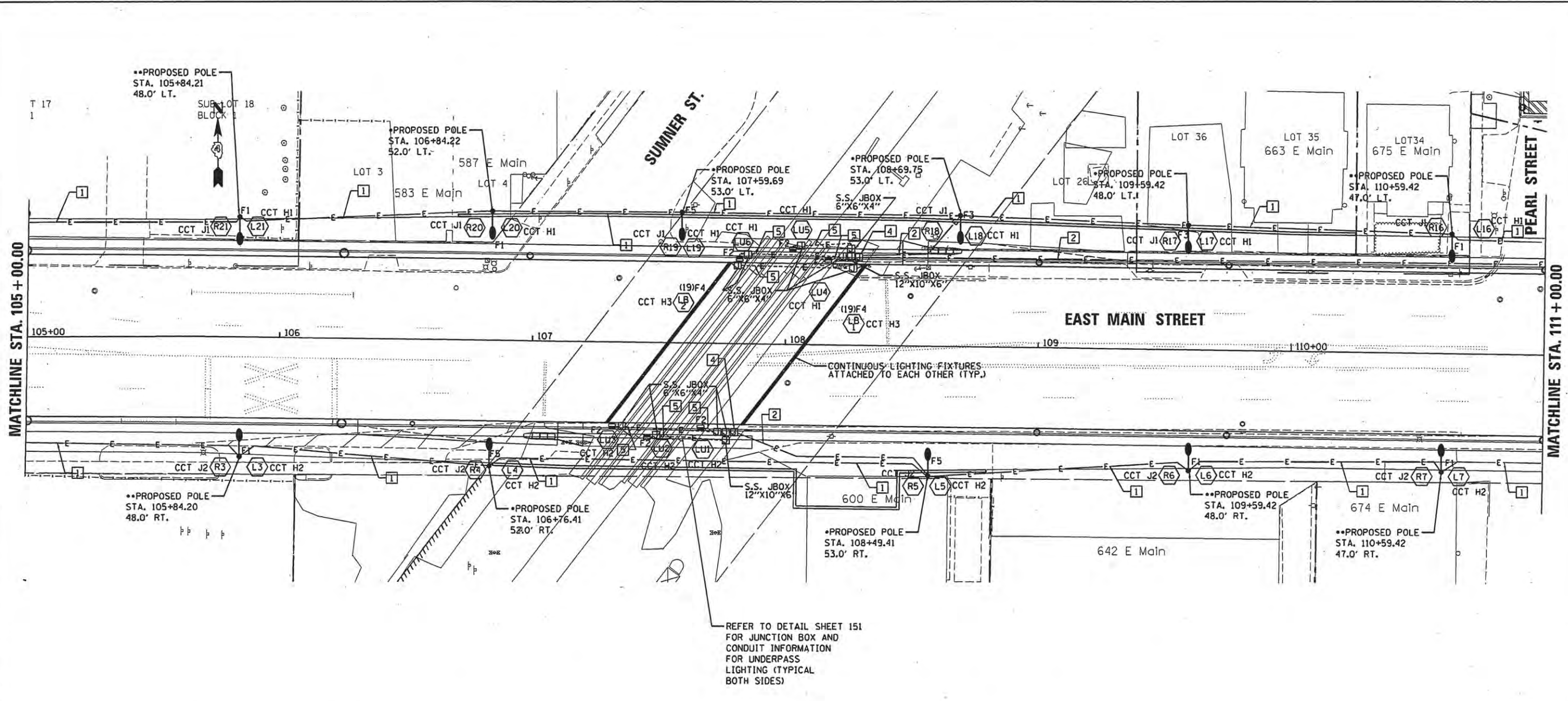
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET  
LIGHTING PLAN**

SCALE: 1:20 SHEET NO. 1 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	145
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**LEGEND**

- E — PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AND TYPE AS INDICATED
- ☉ PROPOSED ORNAMENTAL LIGHT UNIT, COMPLETE
- ☒ PROPOSED LIGHTING CONTROLLER WITH FOUNDATION
- ⊕ PROPOSED ELECTRIC SERVICE INSTALLATION, 100A, 120/240V, SINGLE PHASE
- J PROPOSED JUNCTION BOX
- - - - - PROPOSED CONDUIT ATTACHED TO STRUCTURE, SIZE AND TYPE AS INDICATED
- ▭ UNDERPASS LUMINAIRE
- ▨ BRIDGE DECORATIVE LIGHTING
- LX LIGHTING POLE TAG/SEQUENCE NUMBER
- RX FESTOON RECEPTACLE TAG/SEQUENCE NUMBER
- LUX UNDERPASS LUMINAIRE TAG/SEQUENCE NUMBER
- LP DECORATIVE BRIDGE LUMINAIRE TAG/SEQUENCE NUMBER

**PLAN KEYED NOTES:**

- 1 LTG 2\*8, \*8 GRD, RCPT 2\*6, 2"C. PVC.
- 2 LTG 2\*8, \*8 GRD, 1" PVC.
- 4 12"x12"x6" JUNCTION BOX MOUNTED ON PIER WALL TO SERVE NEW UNDERPASS LIGHTING BRIDGE FASCIA.
- 5 LTG 2\*8, \*8 GRD, 1"C. GALVANIZED STEEL ATTACHED TO STRUCTURE.

**LIGHTING GENERAL NOTES**

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

\* POLE SHALL BE PLACED DIRECTLY BEHIND PROPOSED SEGMENTAL CONCRETE WALL. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SCHEDULE WITH THE WALL CONSTRUCTION.

\*\* POLE SHALL BE PLACED DIRECTLY BEHIND PROPOSED SIDE WALK. CONTRACTOR SHALL COORDINATE FOUNDATION WITH SIDEWALK LAYOUT.



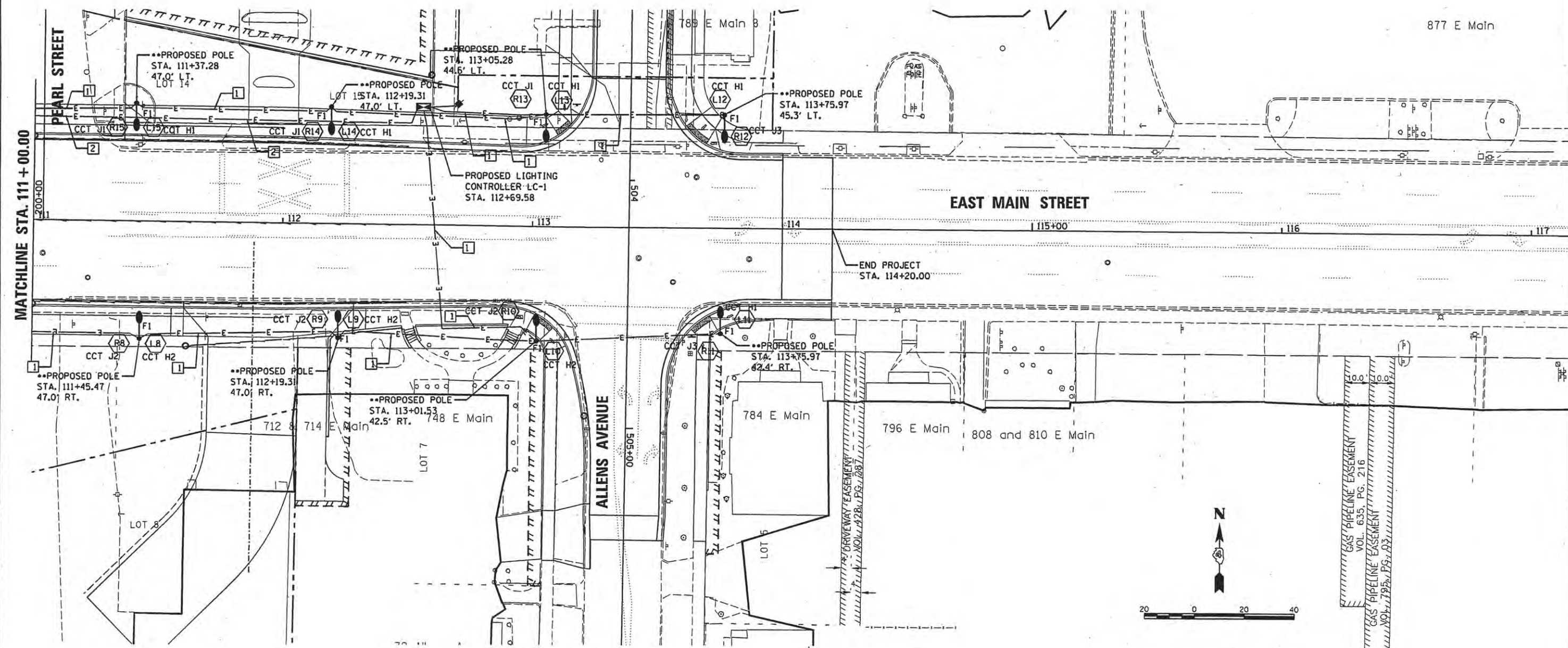
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET  
LIGHTING PLAN**

SCALE: 1:20 SHEET NO. 2 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	146
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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	PLOT DATE = 11/23/2015	DATE - 9/9/2015	REVISED -



**LEGEND**

- E----- PROPOSED CONDUIT ATTACHED TO STRUCTURE, SIZE AND TYPE AS INDICATED
- ☉ PROPOSED ORNAMENTAL LIGHT UNIT, COMPLETE
- ☒ PROPOSED LIGHTING CONTROLLER WITH FOUNDATION
- PROPOSED ELECTRIC SERVICE INSTALLATION, 100A, 120/240V, SINGLE PHASE
- E— PROPOSED ELECTRIC CABLE IN CONDUIT, SIZE AND TYPE AS INDICATED
- ⓧ LX LIGHTING POLE TAG/SEQUENCE NUMBER
- ⓧ RX FESTOON RECEPTACLE TAG/SEQUENCE NUMBER
- ⓧ LUX UNDERPASS LUMINAIRE TAG/SEQUENCE NUMBER
- ⓧ LPX DECORATIVE BRIDGE LUMINAIRE TAG/SEQUENCE NUMBER

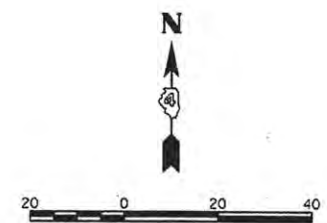
**LIGHTING GENERAL NOTES**

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

••POLE SHALL BE PLACED DIRECTLY BEHIND PROPOSED SIDE WALK.  
CONTRACTOR SHALL COORDINATE FOUNDATION WITH SIDEWALK LAYOUT.



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET  
LIGHTING PLAN**

SCALE: 1/20 SHEET NO. 3 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	147
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE-COMBINATION LIGHTING LUMINAIRE

GIVEN CONDITIONS

ROADWAY DATA:	PAVEMENT WIDTH	24 FT
	NUMBER OF LANES	2
	MEDIAN WIDTH	12 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	45 FT
	MAST ARM LENGTH	15 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	VARIES
LUMINAIRE DATA:	LAMP TYPE	LED
	LAMP LUMENS	21,000
	IES VERTICAL DISTRIBUTION	SHORT
	IES CONTROL OF DISTRIBUTION	CUTOFF
	IES LATERAL DISTRIBUTION	TYPE III
	TOTAL LIGHT LOSS FACTOR	0.684
LAYOUT DATA:	SPACING CONFIGURATION	4 QUADS OF INTERSECTION 4 FIXTURES MOUNTED TO COMB. TRAFFIC SIGNAL/LIGHT POLES
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	VARIES 2' TO 5'

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)	2.2 fc
	UNIFORMITY RATIO, (EAVE/EMIN)	3.0
LUMINANCE:	AVERAGE LUMINANCE: (LAVE)	0.9 Cd/m2
	UNIFORMITY RATIOS: (LAVE/LMIN)	3.0
	(LMAX/LMIN)	5.0
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	0.30

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE-DECORATIVE ROADWAY LUMINAIRE

GIVEN CONDITIONS

ROADWAY DATA:	PAVEMENT WIDTH	24 FT
	NUMBER OF LANES	2
	MEDIAN WIDTH	12 FT
	IES SURFACE CLASSIFICATION	R3
	Q-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 CONFIGURATION	100 FT 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)	5.0
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	0.30

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE-UNDERPASS LUMINAIRE

GIVEN CONDITIONS

ROADWAY DATA:	PAVEMENT WIDTH	24 FT
	NUMBER OF LANES	2
	MEDIAN WIDTH	12 FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	16 FT
	MAST ARM LENGTH	NA
	POLE SET-BACK FROM EDGE OF PAVEMENT	5.0 FT
LUMINAIRE DATA:	LAMP TYPE	LED
	LAMP LUMENS	11,340
	IES VERTICAL DISTRIBUTION	
	IES CONTROL OF DISTRIBUTION	
	IES LATERAL DISTRIBUTION	TYPE IV
	TOTAL LIGHT LOSS FACTOR	0.684
LAYOUT DATA:	SPACING CONFIGURATION	35 FT 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)	5.0
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	0.30

SUMMARY OF QUANTITIES

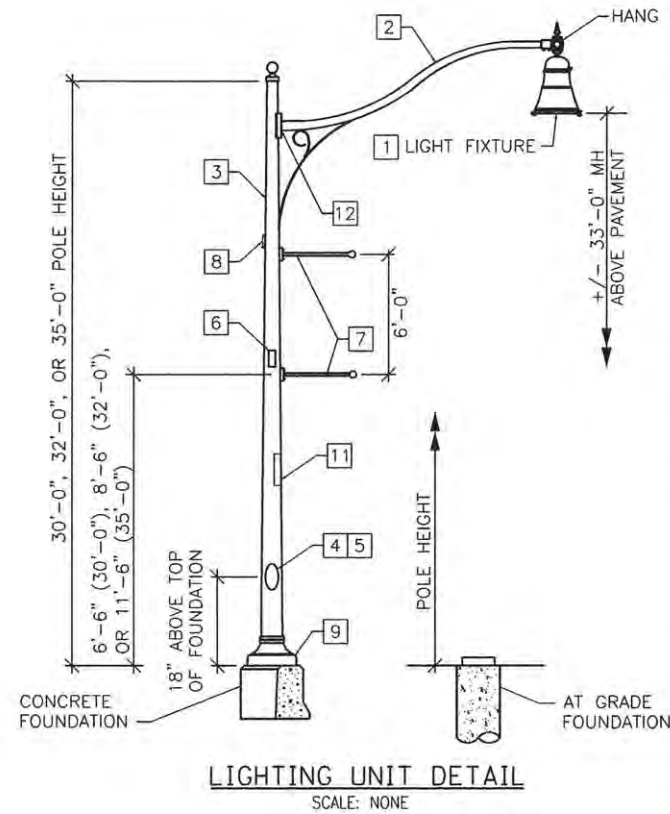
PAY ITEM	UNIT	S	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH		1
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT		624
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT		2171
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT		319
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH		10
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH		2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH		2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT		8358
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT		6200
LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP (DUAL)	EACH		1
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT		244
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., STAINLESS STEEL	FOOT		30
UNDERPASS LUMINAIRE (SPECIAL)	EACH	*	6
ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	*	23
LUMINAIRE (SPECIAL)	EACH	*	38

\*INDICATES SPECIAL PROVISION

LIGHTING FIXTURE SCHEDULE

FIXT. TYPE	DESCRIPTION	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, UL LISTED WET LOCATIONS	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).
F2	LED UNDERPASS LIGHTING LUMINAIRE, UL LISTED WET LOCATIONS	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, UL LISTED WET LOCATIONS	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).
F4	DECORATIVE BRIDGE LIGHTING	LED	240 VOLT	ARM
F5	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, UL LISTED WET LOCATIONS	LED, 160W	240 (MULTI-TAP BALLAST)	A 32'-0" POLE WITH AN 8'-0" MAST ARM. PROVIDE SINGLE BANNER ARM AND GFCI WEATHERPROOF RECEPTACLE (GFI).





**KEYED NOTES:**

- 1 LED, VERTICAL MOUNT (DECORATIVE), LUMINAIRE, TYPE III DISTRIBUTION, BLACK FINISH.
- 2 8'-0" DECORATIVE ALUMINUM MAST ARM WITH BLACK GLOSS FINISH, 3/16" WALL THICKNESS ALUMINUM LUMINAIRE ARM.
- 3 ONE PIECE SEAMLESS ROUND TAPERED (8" BASE DIA. TO 4.5" TOP DIA.) 6063-T6 GRADE 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 GF) WITHIN USE COVER.
- 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 AT 7'-0" ABOVE GROUND LEVEL.
- 12 ARM SECURED TO POLE BY (4) 1/2"-13 STAINLESS STEEL BOLTS.

**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 POLES SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION SET FORTH IN ARTICLE 1069.01(g) 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.

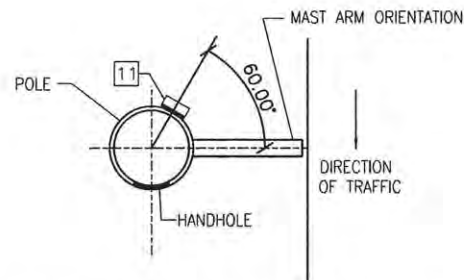
SEE STANDARD 830001-03 FOR LIGHT POLE BASE AND MOUNTING DETAILS.

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

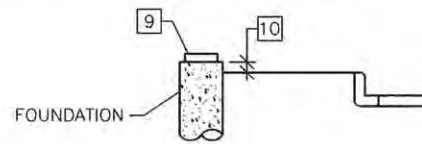
SEE STANDARD 720001-01 FOR POLE IDENTIFICATION BANDING TO POLE.

VOIDS IN LIGHT POLE BASE SHALL BE SEALED TO PREVENT RODENT ENTRY.

PROVIDE BREAKAWAY DEVICES WHERE REQUIRED.



**HANDHOLE ORIENTATION DETAIL**  
SCALE: NONE



**AT GRADE FOUNDATION DETAIL**  
SCALE: NONE

LAYOUT	
DRAWN	
REVIEWED	

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

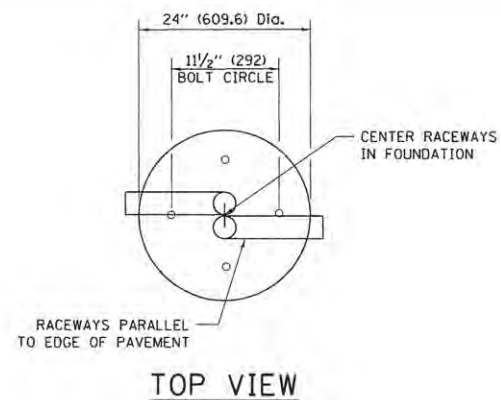
**EAST MAIN STREET**  
**LIGHTING DETAIL**

SCALE: SHEET NO. 5 OF 10 SHEETS STA. TO STA.

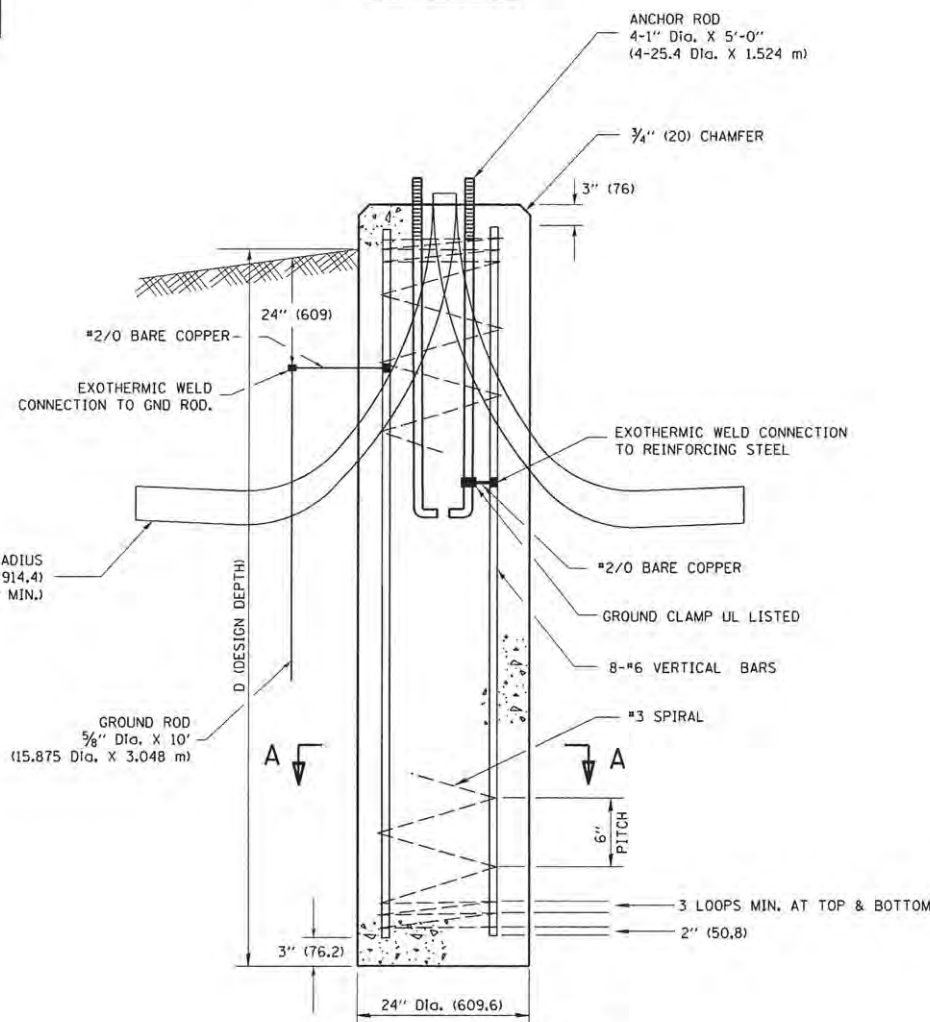
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6800	05-00500-19-GS	KNOX	216	149
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

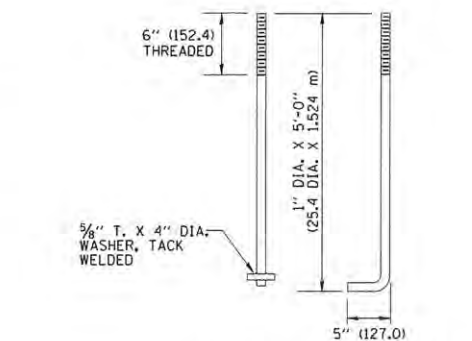
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION		USE FOR LIGHTING POLE TAG #
	SINGLE ARM POLE	TWIN ARM POLE	
SOFT CLAY O <sub>u</sub> = 0.375 TON/SO. FT.	11'-0" (3.35 m)	-	3, 4, 19
MEDIUM CLAY O <sub>u</sub> = 0.75 TON/SO. FT.	9'-0" (2.74 m)	-	1, 2, 5-18, 20, 21, 24-25
STIFF CLAY O <sub>u</sub> = 1.50 TON/SO. 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)	-	-



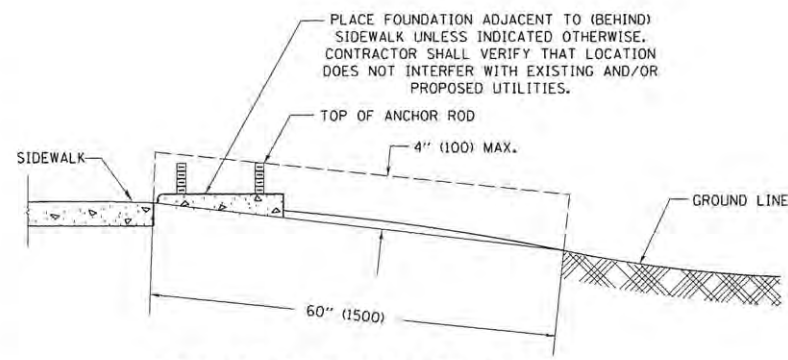
**TOP VIEW**



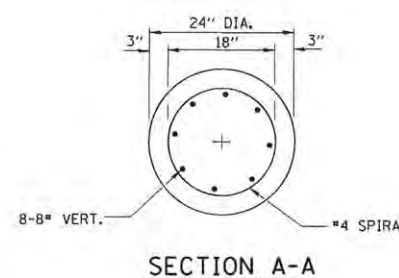
**FOUNDATION DETAIL**



**ANCHOR BOLT DETAIL**



**FOUNDATION EXTENSION DETAIL**

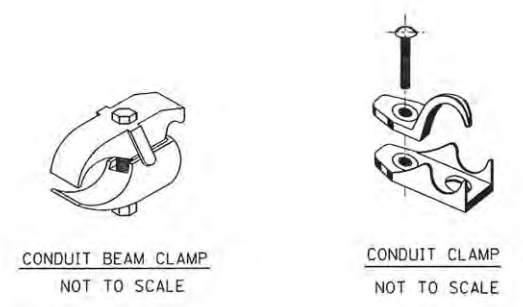
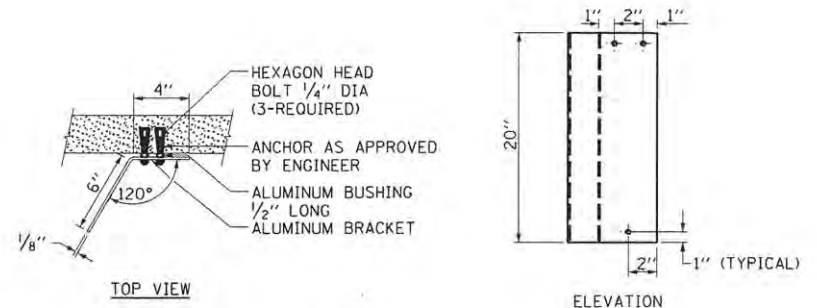
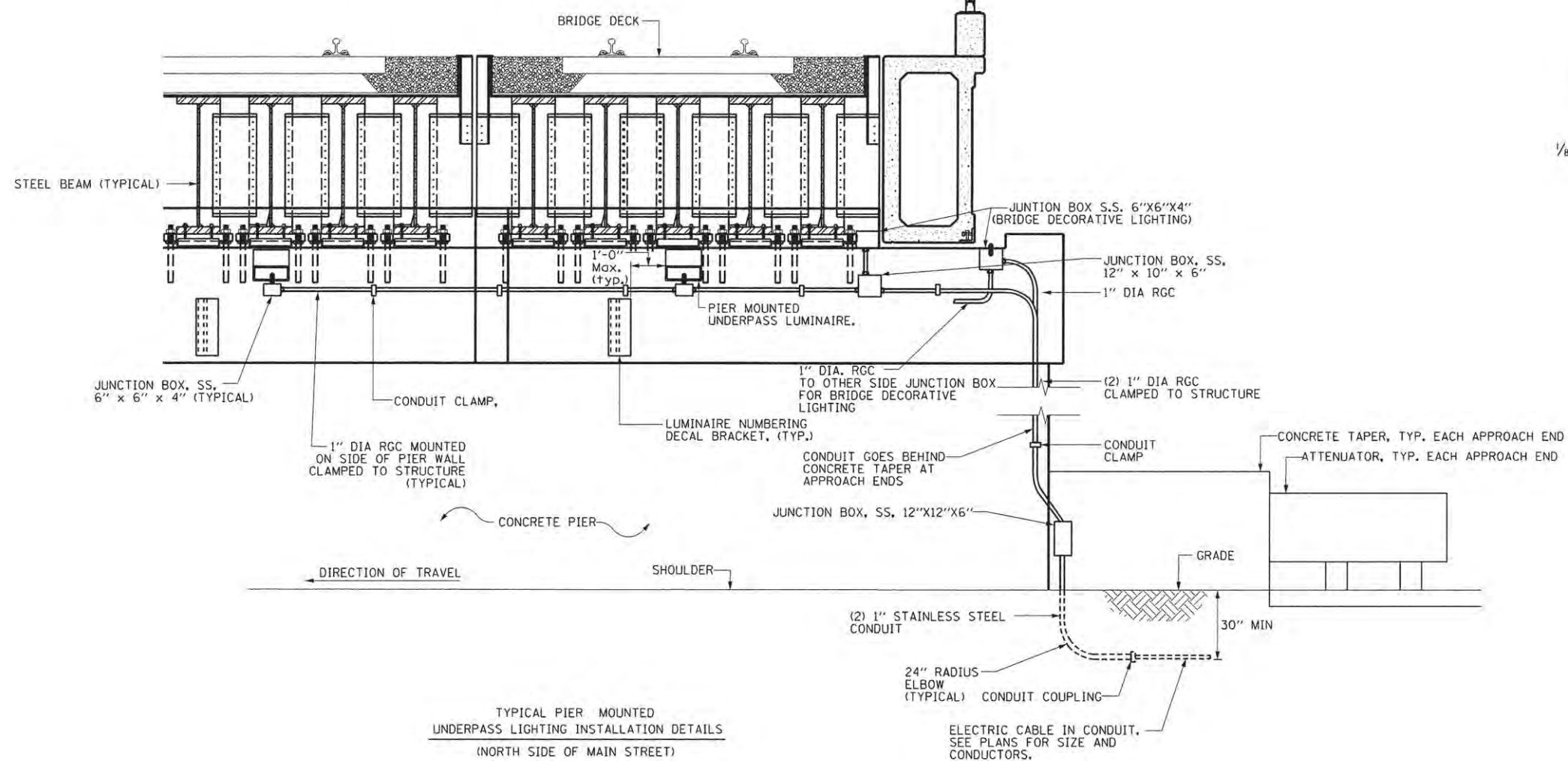
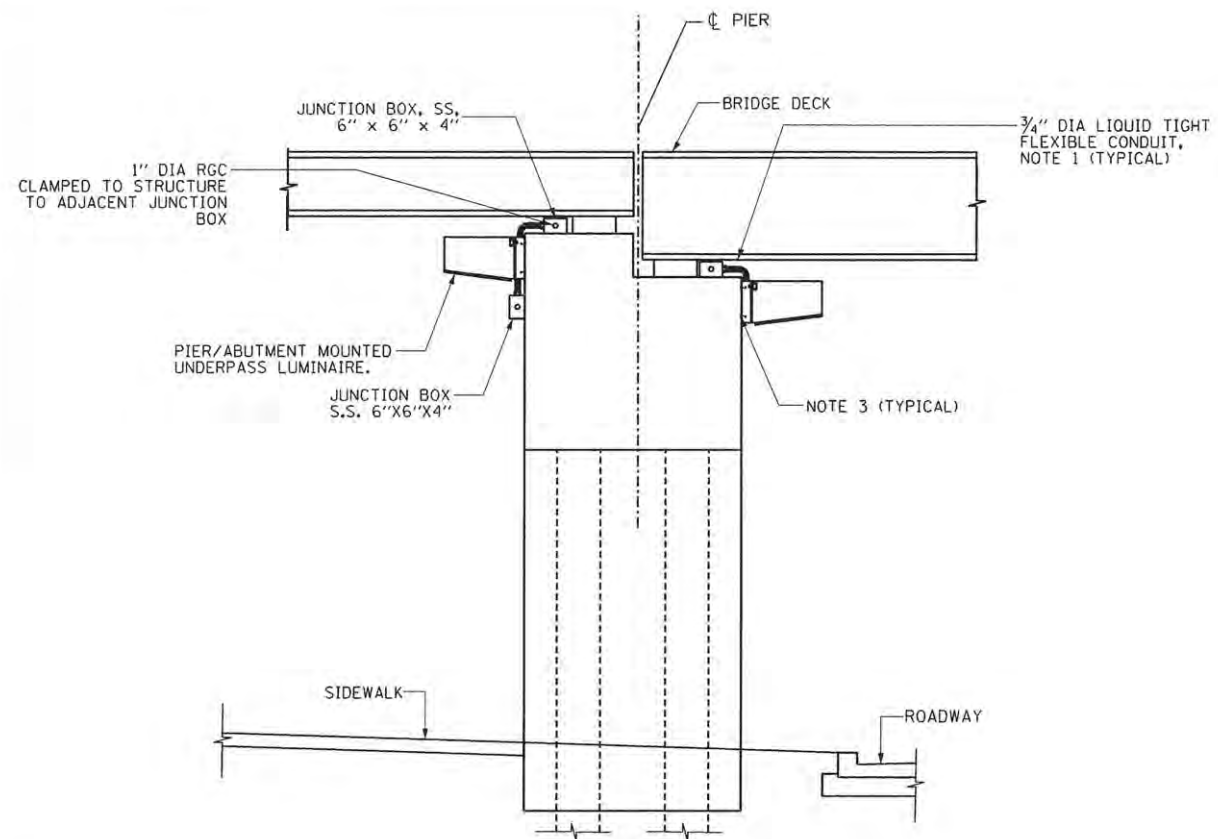


**SECTION A-A**

**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.





TYPICAL PIER MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS (NORTH SIDE OF MAIN STREET)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET  
LIGHTING DETAIL

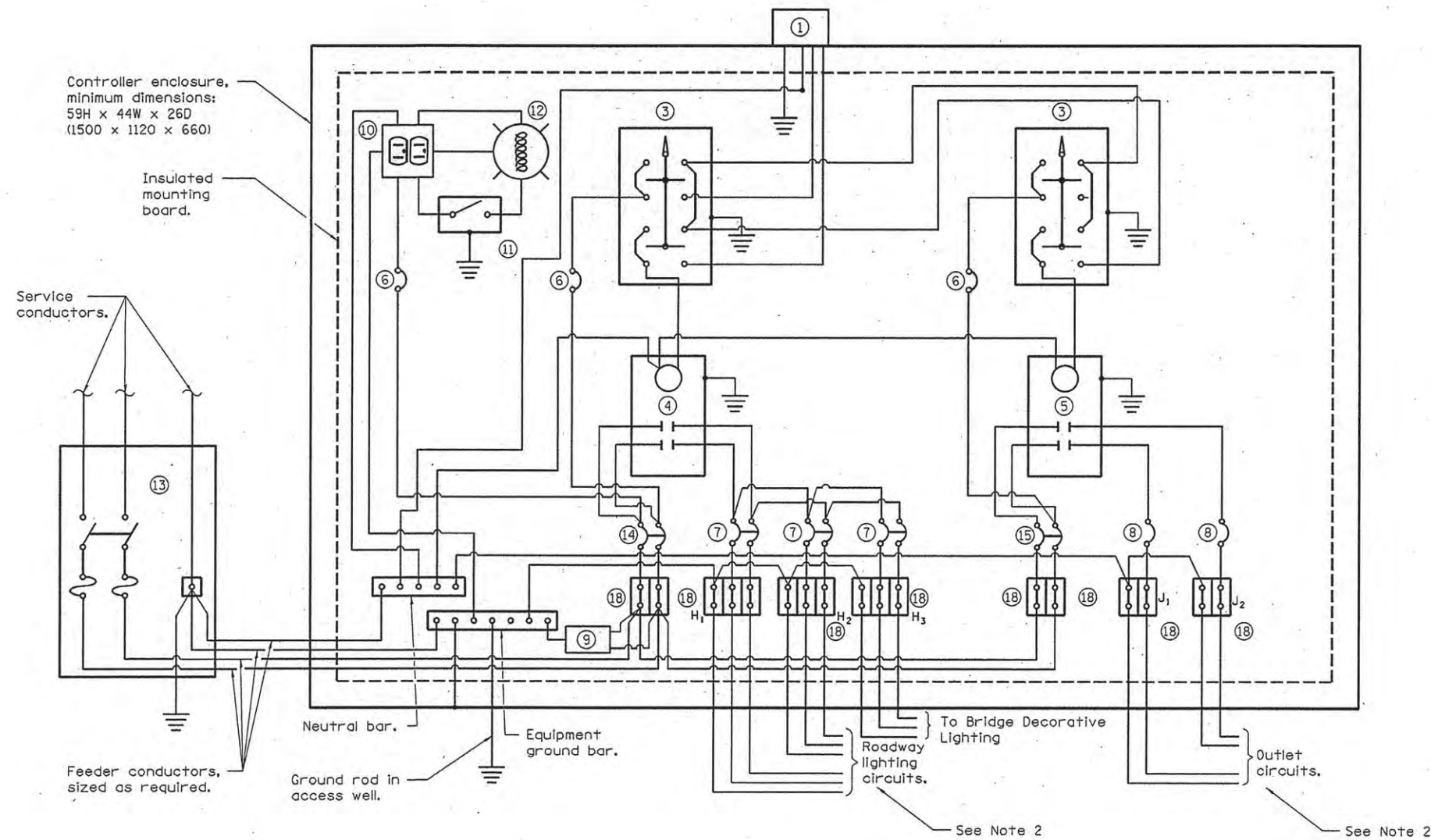
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	151
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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PLOT DATE = 11/13/2015			

SCALE: SHEET NO. 7 OF 10 SHEETS STA. TO STA.

LAYOUT	
DRAWN	
REVIEWED	

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





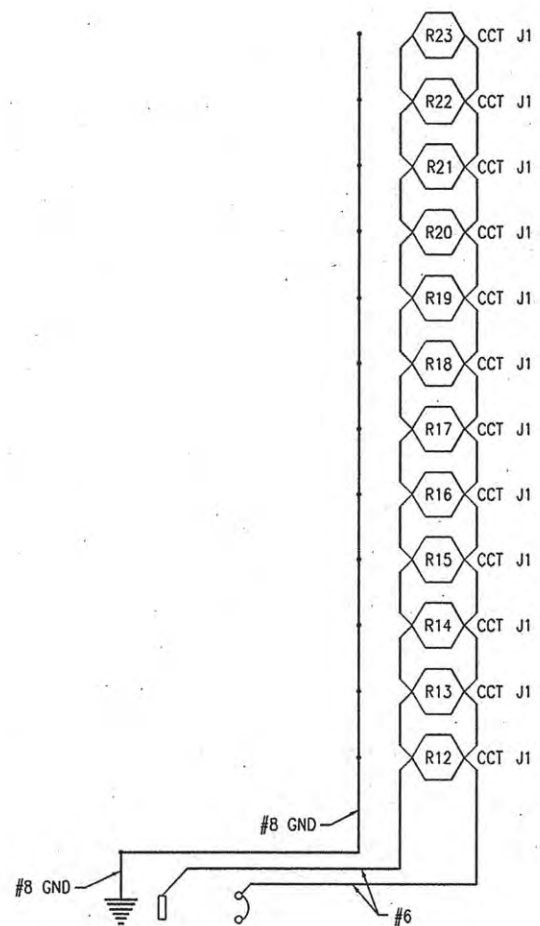
- ① Photocell with integral surge arrester for roadway lighting.
  - ③ HAND-OFF-AUTO selector switch.
  - ④ 60 amp\*, electrically held contactor.
  - ⑤ 60 amp\*, electrically held contactor.
  - ⑥ 15 amp, 1-pole circuit breaker.
  - ⑦ 20 amp\*, 2-pole circuit breaker (two spares required but not shown).
  - ⑧ 30 amp\*, single-pole circuit breaker (two shown, quantity as required).
  - ⑨ Surge arrester.
  - ⑩ GFCI duplex receptacle.
  - ⑪ Single-pole, single-throw switch.
  - ⑫ Incandescent luminaire, enclosed and gasketed with 100 watt lamp.
  - ⑬ Service disconnect switch - 2-pole, 3-wire, 100 amp\*, fused at 100 amp\*, solid neutral in NEMA 4X enclosure having lockable external handle.
  - ⑭ 60 amp\*, 2-pole circuit breaker.
  - ⑮ 30 amp\*, 2-pole circuit breaker.
  - ⑯ Terminal block sized for conductors as shown on plans.
- \* Size larger as needed.

Notes  
 1. See Highway Standard 826001-01 for Electric Service Installation, Anchor Rod, Foundation, and Lighting Controller details.  
 2. One lighting circuit and one receptacle circuit will be grouped in the same conduit with one equipment grounding conductor per conduit.

**120240 SERVICE WIRING DIAGRAM FOR LC-1**  
 SCALE: NONE

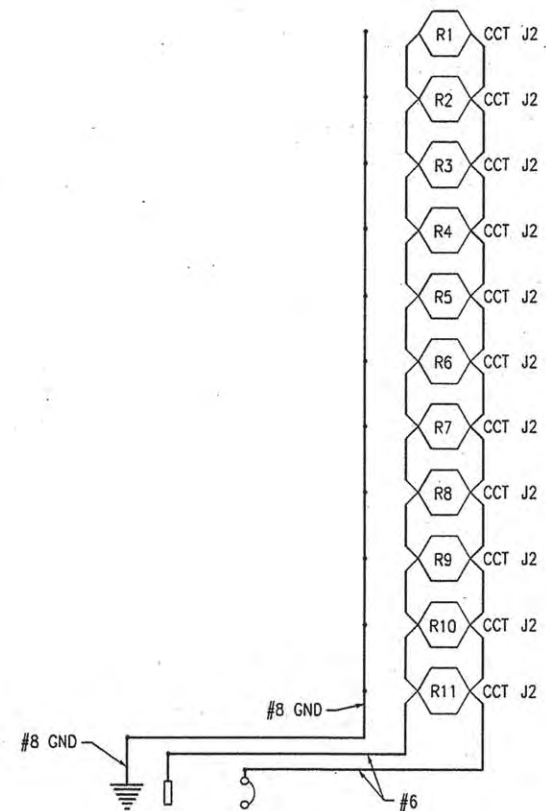
LEGEND

-  LX LIGHTING POLE TAG/SEQUENCE NUMBER
-  RX FESTOON RECEPTACLE TAG/SEQUENCE NUMBER
-  LUX UNDERPASS LUMINAIRE TAG/SEQUENCE NUMBER
-  LBX DECORATIVE BRIDGE LUMINAIRE TAG/SEQUENCE NUMBER



CONTROLLER LC-1  
200 AMP, 120 VOLT, SINGLE PHASE, 720 VA TOTAL LOAD,  
30A, 1-POLE BREAKER

**CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (NORTH)**  
NOT TO SCALE



CONTROLLER LC-1  
200 AMP, 120 VOLT, SINGLE PHASE, 660 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	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

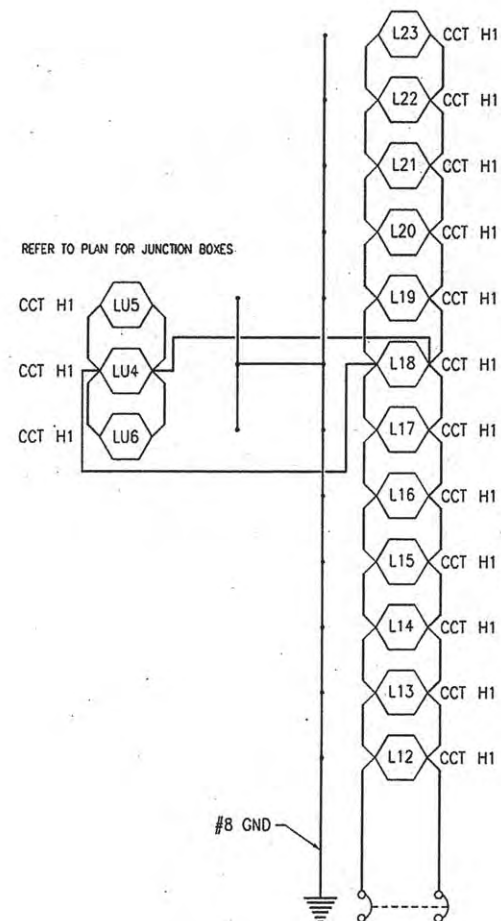
**EAST MAIN STREET  
LIGHTING DETAIL**

SCALE: NONE SHEET NO. 9 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	153
50VB			CONTRACT NO.89417	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

LEGEND

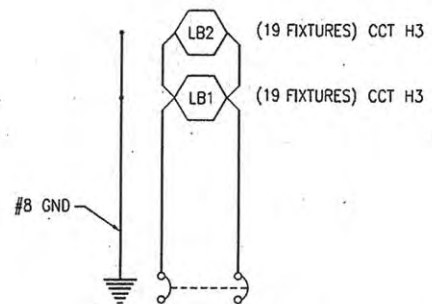
- LX LIGHTING POLE TAG/SEQUENCE NUMBER
- RX FESTOON RECEPTACLE TAG/SEQUENCE NUMBER
- LUX UNDERPASS LUMINAIRE TAG/SEQUENCE NUMBER
- LBX DECORATIVE BRIDGE LUMINAIRE TAG/SEQUENCE NUMBER



CONTROLLER LC-1  
200 AMP, 240 VOLT, SINGLE PHASE, 3198 VA TOTAL LOAD,  
20A, 2-POLE BREAKER,  
ALL CONDUCTOR #8 (UNO)

CIRCUIT DIAGRAM - LIGHTS (NORTH)

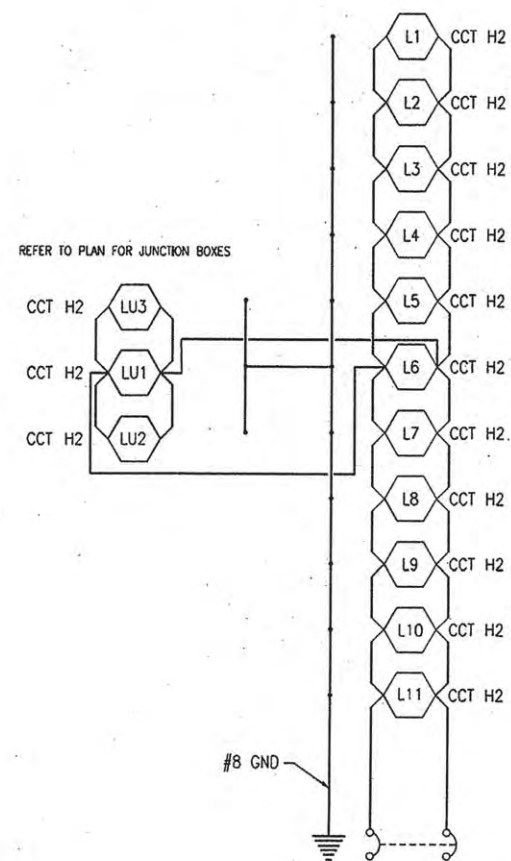
NOT TO SCALE



CONTROLLER LC-1  
200 AMP, 240 VOLT, SINGLE PHASE, 1824 VA TOTAL LOAD,  
20A, 2-POLE BREAKER,  
ALL CONDUCTOR #8 (UNO)

CIRCUIT DIAGRAM - DECORATIVE LIGHTS

NOT TO SCALE



CONTROLLER LC-1  
200 AMP, 240 VOLT, SINGLE PHASE, 2078 VA TOTAL LOAD,  
20A, 2-POLE BREAKER,  
ALL CONDUCTOR #8 (UNO)

CIRCUIT DIAGRAM - LIGHTS (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.



PROJECT: C:\pwwork\work\do\_not\_delete\0273657\04\09\0105-shl-light010.dgn  
 USER: brest00993  
 DATE: 9/9/2015  
 PLOT DATE: 11/23/2015

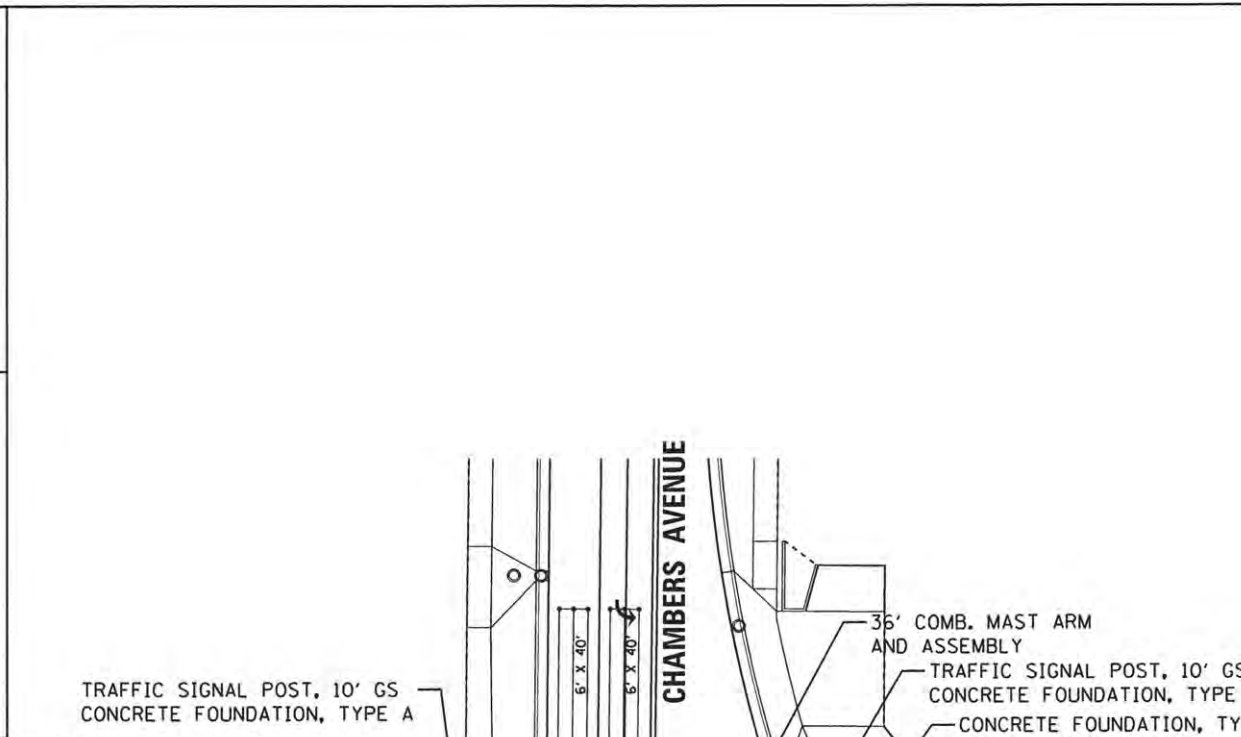
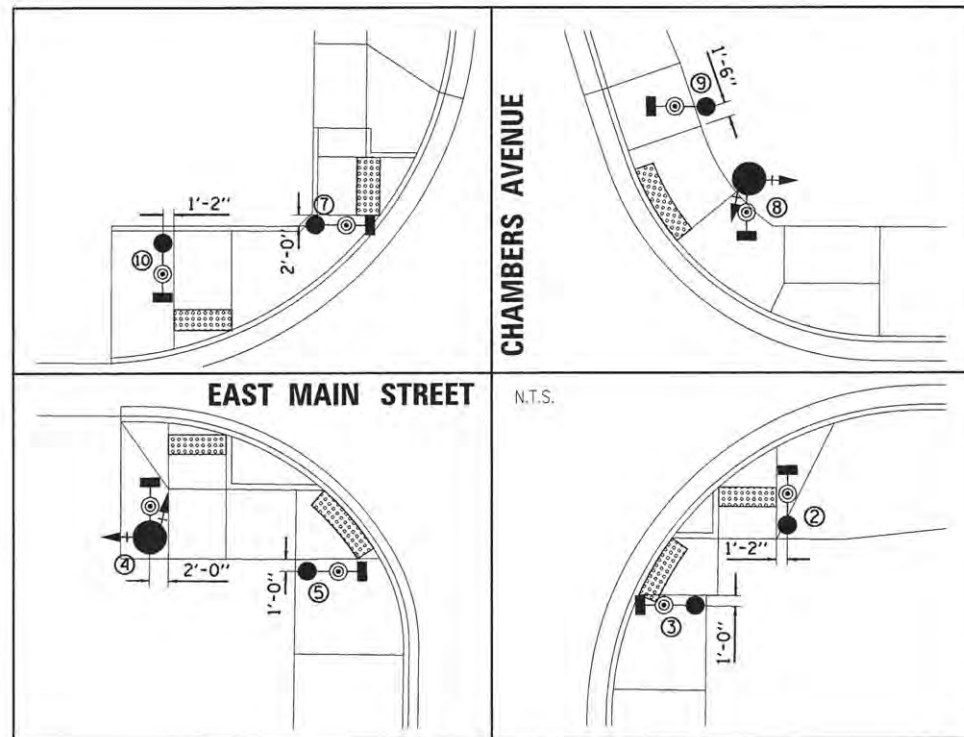
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DESIGNED BY =	DRAWN -	CHECKED -	REVISED -
DATE = 9/9/2015	DATE = 9/9/2015	REVISED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET  
LIGHTING DETAIL

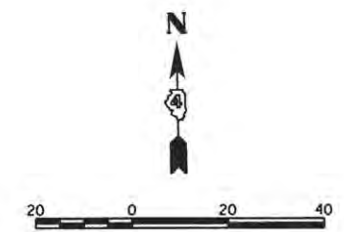
SCALE: SHEET NO. 10 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	154
SOVB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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.

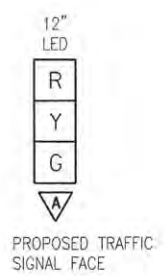


MAST ARM POLES & POSTS			
POLE I.D.	CONTROL LINE	STATION	OFFSET
①	MAIN STREET	102+98	40' RT
②	MAIN STREET	102+84	45' RT
③	MAIN STREET	102+74	53' RT
④	MAIN STREET	101+95	50' RT
⑤	MAIN STREET	102+12	53' RT
⑥	MAIN STREET	101+89	45' LT
⑦	MAIN STREET	102+11	47' LT
⑧	MAIN STREET	102+93	53' LT
⑨	MAIN STREET	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
⊠	MAIN STREET	102+68	78' RT

**TRAFFIC SIGNAL PLAN LEGEND**

<b>PROPOSED</b>	<b>DESCRIPTION</b>
	SIGNAL HEAD WITH BACKPLATE
	SIGNAL POST
	CONTROLLER
	HANDHOLE
	DOUBLE HANDHOLE
	PEDESTRIAN COUNTDOWN SIGNAL HEAD
	PUSH BUTTON
	CONDUIT
	CONDUIT
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE



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

FILE NAME =	USER NAME = andar-00846	DESIGNED - RLA	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

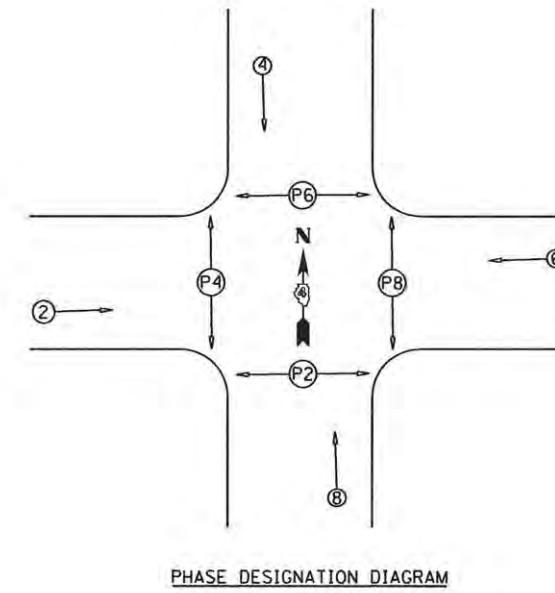
**EAST MAIN STREET AND CHAMBERS STREET**  
**SIGNAL PLAN**

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

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

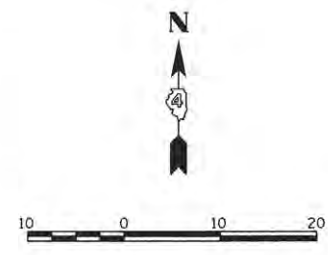
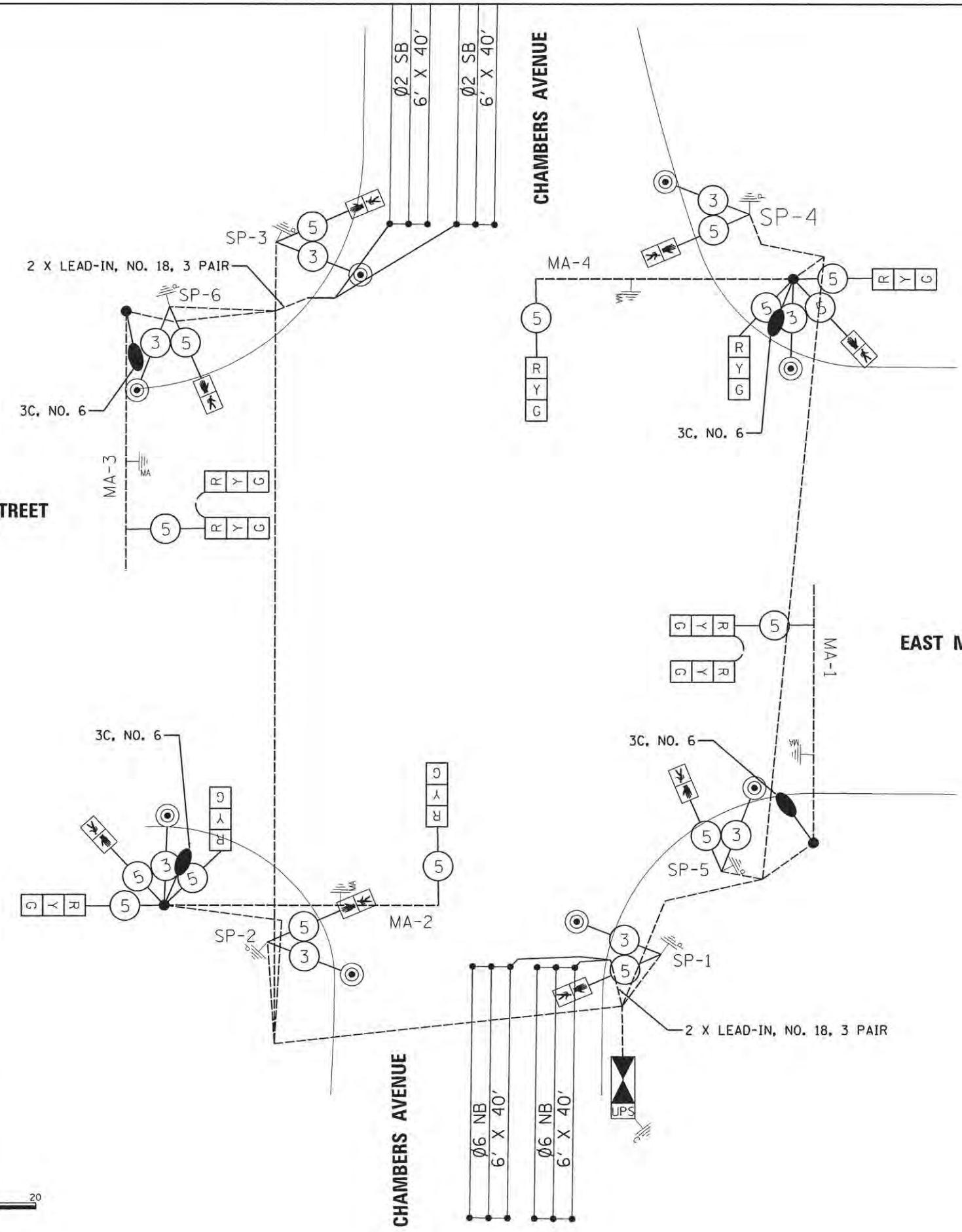
**TRAFFIC SIGNAL WIRING DIAGRAM LEGEND**

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**

1. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
2. ALL PEDESTRIAN SECTIONS SHALL HAVE 16" LENSES WITH A MAN/HAND OVERLAY AND COUNTDOWN TIMER.
3. 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.
4. 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.
5. ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.
6. ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
7. ALL PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
8. HANDHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
9. ALL CABLES #14 UNLESS OTHERWISE NOTED.
10. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
11. 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.
12. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
13. 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.
14. 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.
15. 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.
16. 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.
17. THE LENGTH OF DETECTOR LOOP CABLE FROM CURB TO THE HANDHOLE SHALL BE INCLUDED IN THE DETECTOR LOOP QUANTITY.
18. LOOPS IN THE SAME LANE SHALL BE WOUND ALTERNATELY CLOCKWISE AND COUNTER CLOCKWISE.
19. THE CONDUITS SHOWN CONNECTING THE BACK OF CURB TO THE ROADSIDE HANDHOLE SHALL CONTAIN ONLY DETECTOR LOOP CABLE.
20. 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.



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

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET AND CHAMBERS STREET  
 CABLE PLAN**

SCALE: 1"=10'	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	156
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





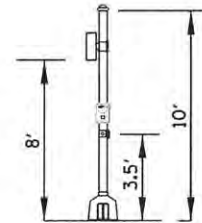
4 LEFT AND 4 RIGHT REQUIRED

PEDESTRIAN PUSH BUTTON SIGN  
TYPE R10-3 (L OR R)

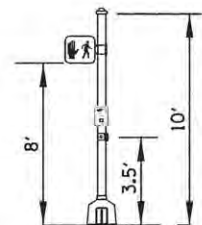
9" X 12"  
**PEDESTRIAN CROSSING  
SIGN DETAIL**  
(NOT TO SCALE)

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

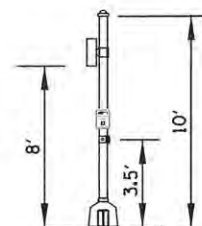
COLORS  
LEGEND-BLACK  
BACKGROUND-WHITE  
SIGNAL-GREEN



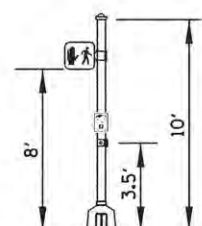
SP-1  
SOUTHEAST CORNER  
SIGNAL POST  
NTS



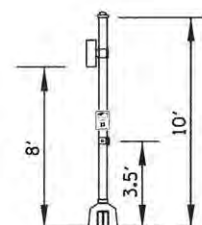
SP-2  
SOUTHWEST CORNER  
PEDESTRIAN SIGNAL POST  
NTS



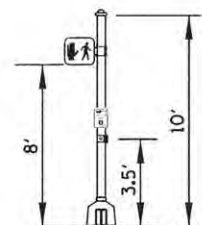
SP-3  
NORTHWEST CORNER  
SIGNAL POST  
NTS



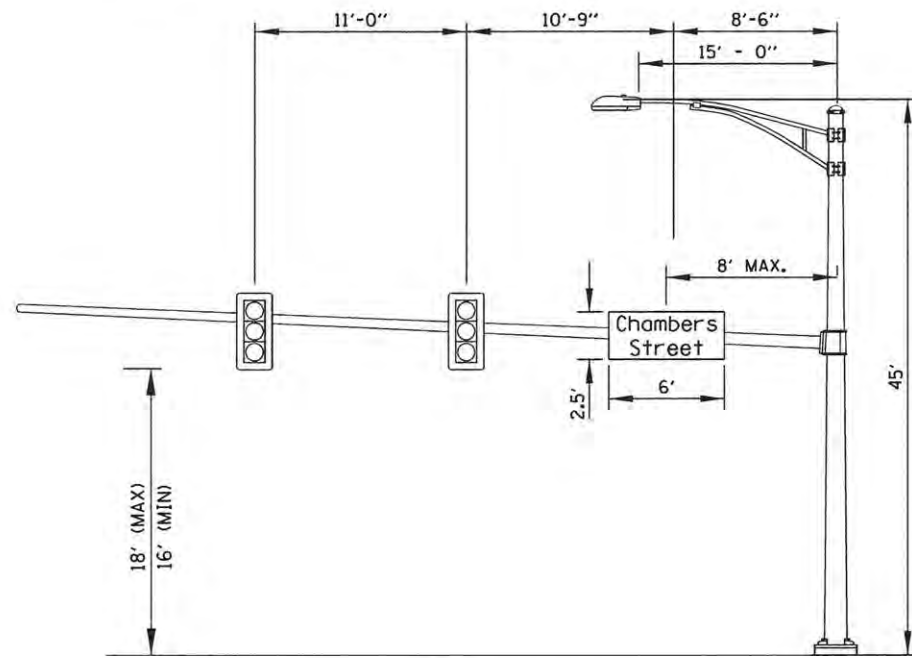
SP-4  
NORTHEAST CORNER  
PEDESTRIAN SIGNAL POST  
NTS



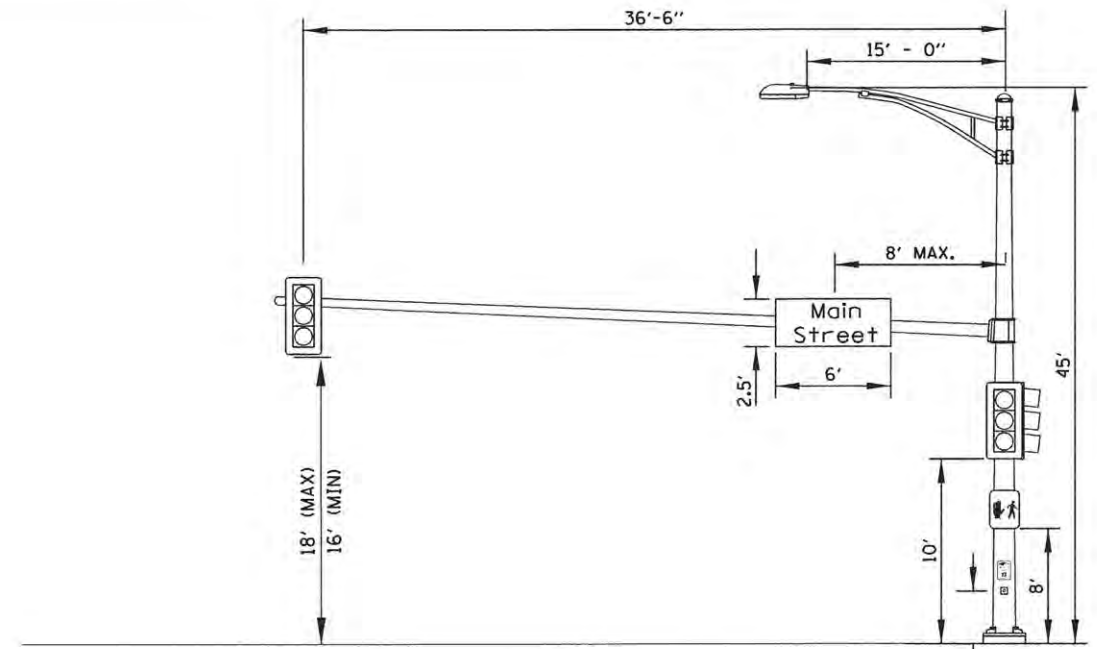
SP-5  
SOUTHEAST CORNER  
PEDESTRIAN SIGNAL POST  
NTS



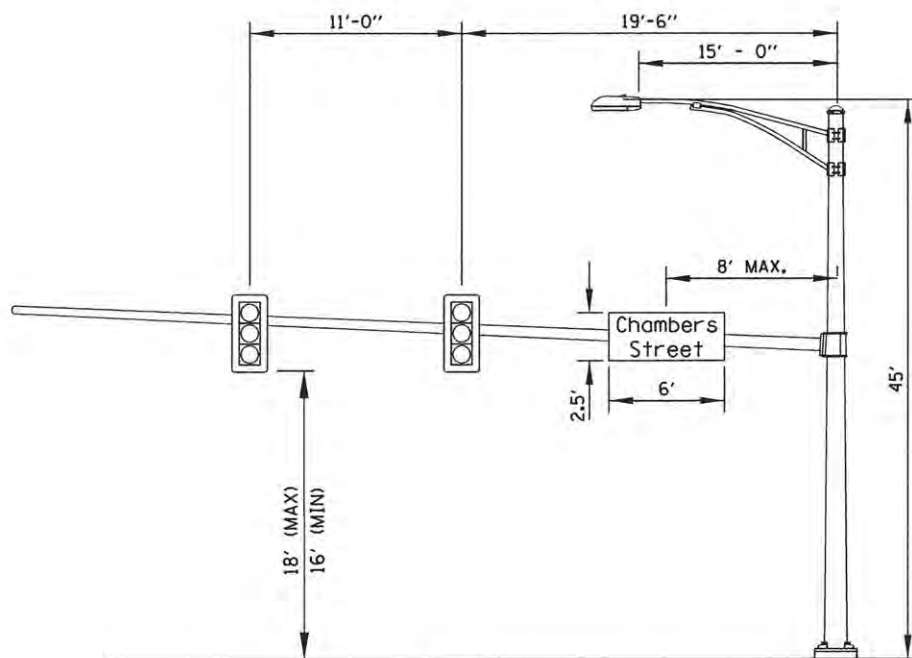
SP-6  
NORTHWEST CORNER  
PEDESTRIAN SIGNAL POST  
NTS



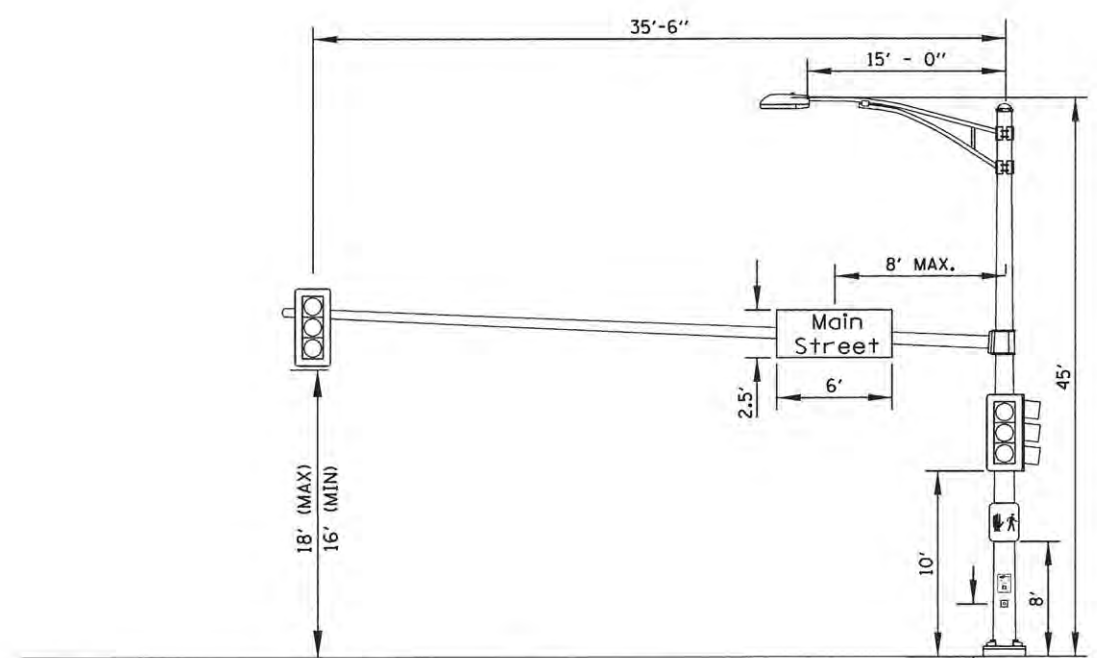
MA-1  
MAIN STREET AND CHAMBERS STREET  
EASTBOUND MAIN STREET  
NTS



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

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CHECKED - MPB  
DATE - 9/9/2015

REVISED -  
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

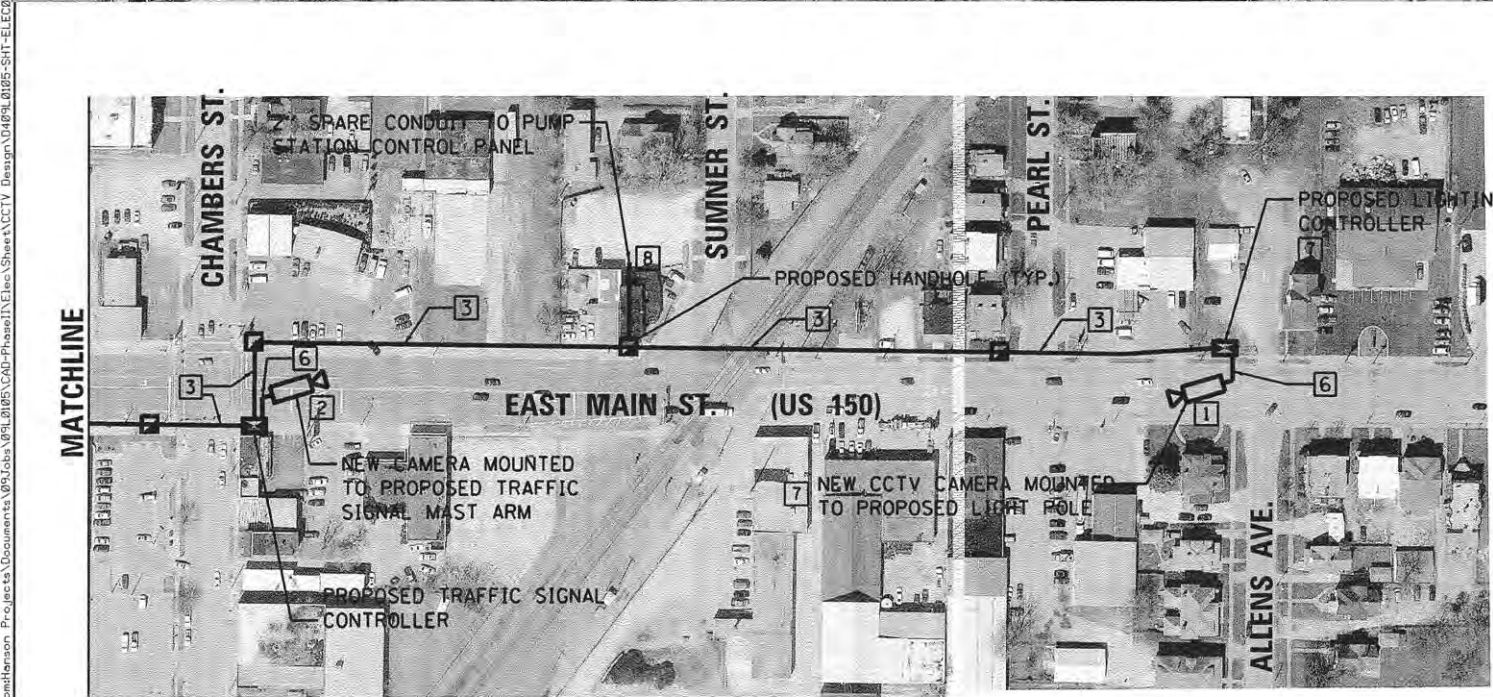
**EAST MAIN STREET AND CHAMBERS STREET  
MAST ARM LOADING DIAGRAM**

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	216	157
	50VB		CONTRACT NO.89417	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



MATCHLINE



MATCHLINE

**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 1-2" CONDUIT FROM CHAMBERS AVENUE AND EAST MAIN STREET INTERSECTION TO EXISTING MANHOLE AT THE SIMMONS STREET AND KELLOGG 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 MANHOLE 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 KELLOGG 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.

N

**KEYED NOTES (CONTINUED):**

- 8 REFER TO ELECTRICAL SHEET "ELECTRICAL SERVICE AND GENERATOR SITE PLAN" FOR LOCATION.
- 9 EXISTING MANHOLE.
- 10 ARMORED 72 STRAND, SINGLE MODE, GEL FREE, LOOSE TUB, CORNING FIBER IS LOCATED IN THE EXISTING CONDUIT ALONG SIMMONS STREET BETWEEN CEDAR STREET AND KELLOGG STREET.

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

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET  
 CCTV CAMERA SYSTEM SITE PLAN**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	158
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		[ILLINOIS] FED. AID PROJECT		

SCALE: 1"=100' SHEET NO. OF SHEETS STA. TO STA.

CCTV CAMERA SYSTEM BILL OF MATERIALS			
IDOT CODE	ITEM DESCRIPTION DESIGNATION	ITEM QUANTITY	
		UNITS	QUANTITY
X0323898	CLOSED CIRCUIT TELEVISION DOME CAMERA	EA	2
X0323923	SUPPORT EQUIPMENT AND MAINTENANCE	L SUM	1
X0326812	CAT 5 ETHERNET CABLE	FOOT	500
X8710050	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	2
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3500
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	300
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	5000
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	6
X8710071	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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PLOT DATE = 11/13/2015		DATE - 9/9/2015	REVISED -

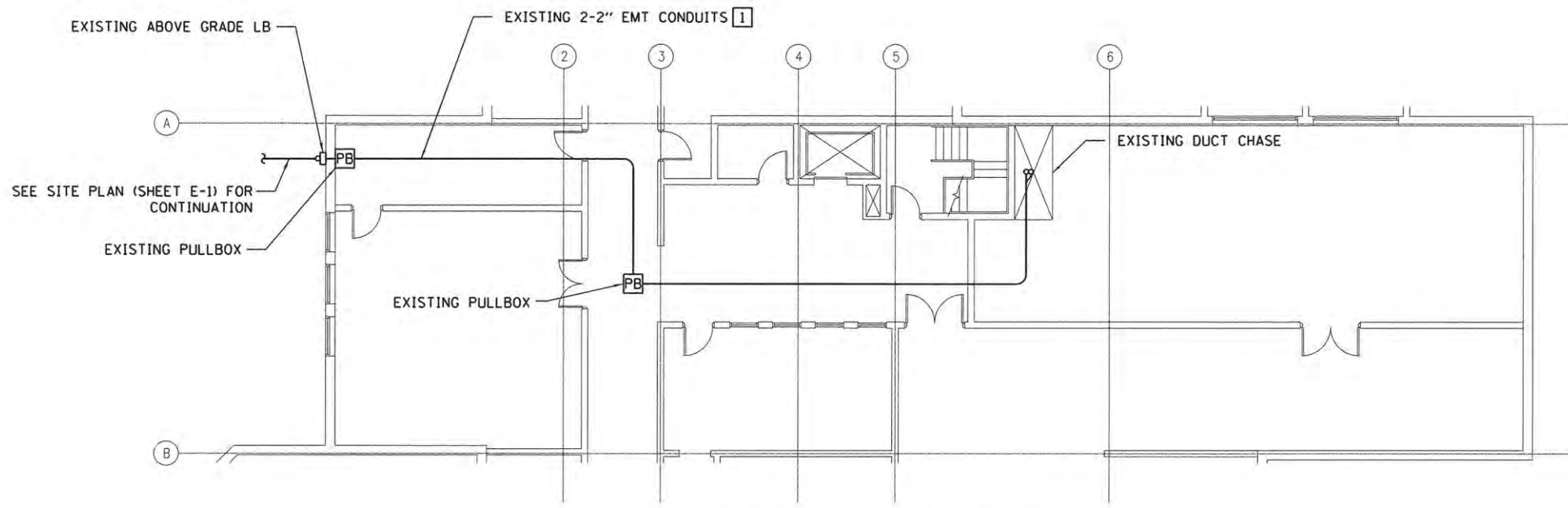
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**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.
6800	05-00500-19-GS	KNOX	216	159
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

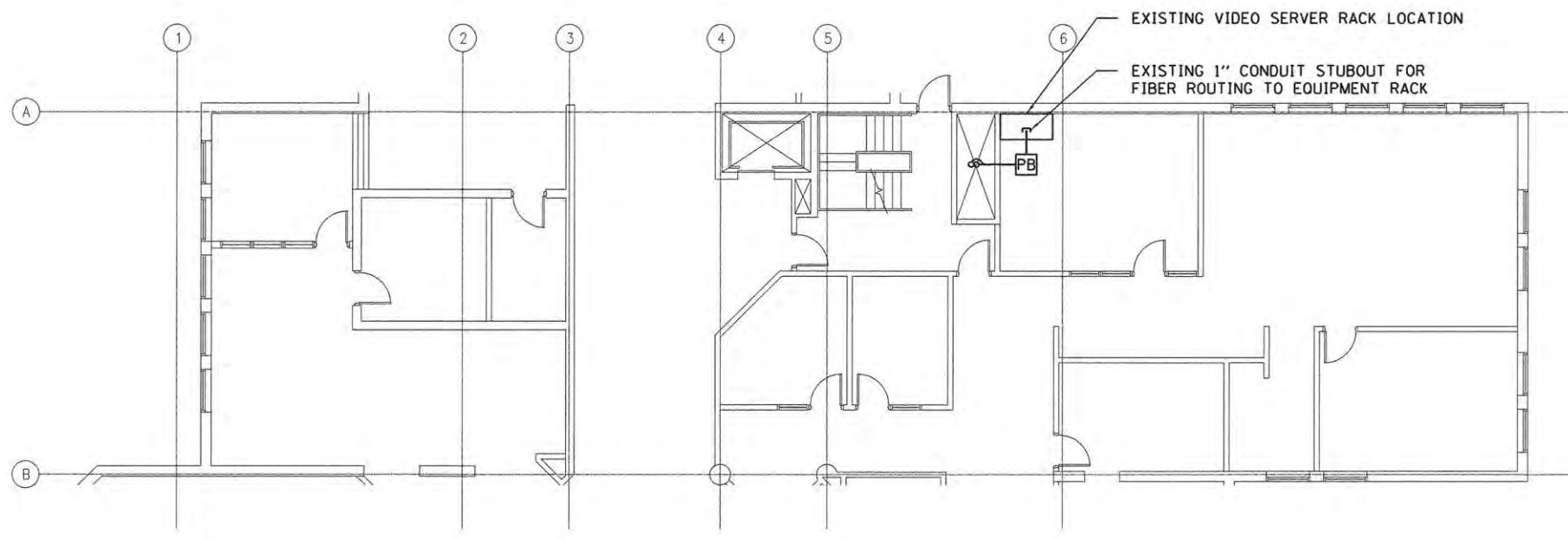
**SHEET IS FOR REFERENCE ONLY SHOWING EXISTING FIBER ROUTING. NO NEW WORK IS REQUIRED ON THIS SHEET.**



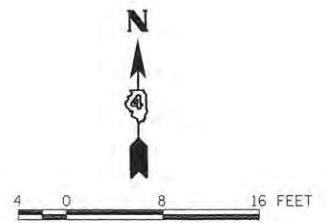
**BASEMENT FLOOR EXISTING PLAN**

**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**



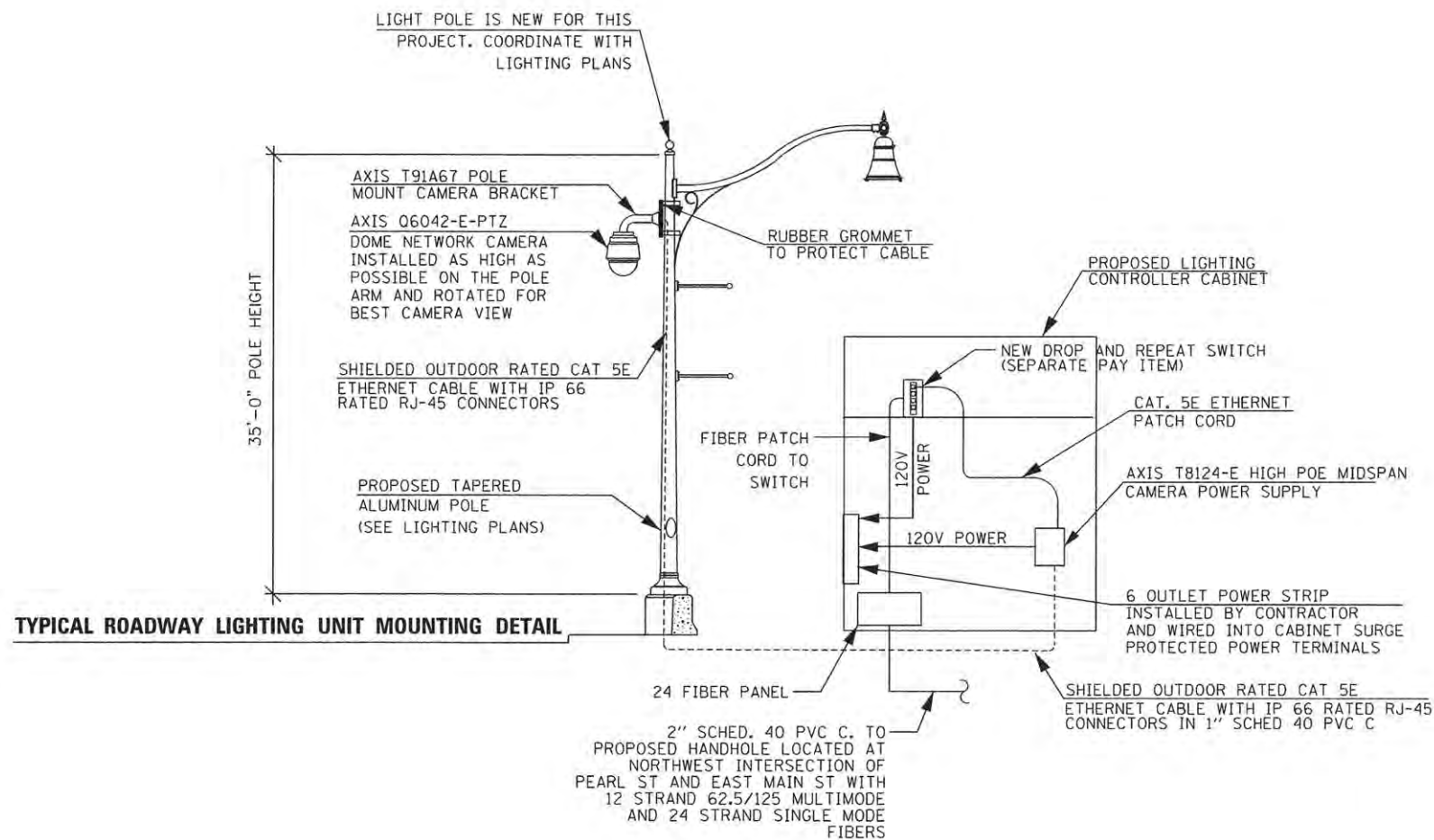
**FIRST FLOOR EXISTING PLAN**



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**HANSON**  
 Hanson Professional Services Inc.

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 CHECKED - RDN  
 DATE - 9/9/2015  
 PLOT SCALE = 96.0000' / 1" IN.  
 PLOT DATE = 11/13/2015

LAYOUT DRAWN REVIEWED		6/11/15 AJT RDN	EAST MAIN STREET EXISTING CITY HALL VIDEO PLANS				F.A.U. RTE. 6800		SECTION 05-00500-19-GS	COUNTY KNOX	TOTAL SHEETS 216	SHEET NO. 160
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			SCALE: 1/8" = 1'-0"	SHEET NO.	OF SHEETS	STA.	TO STA.	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 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

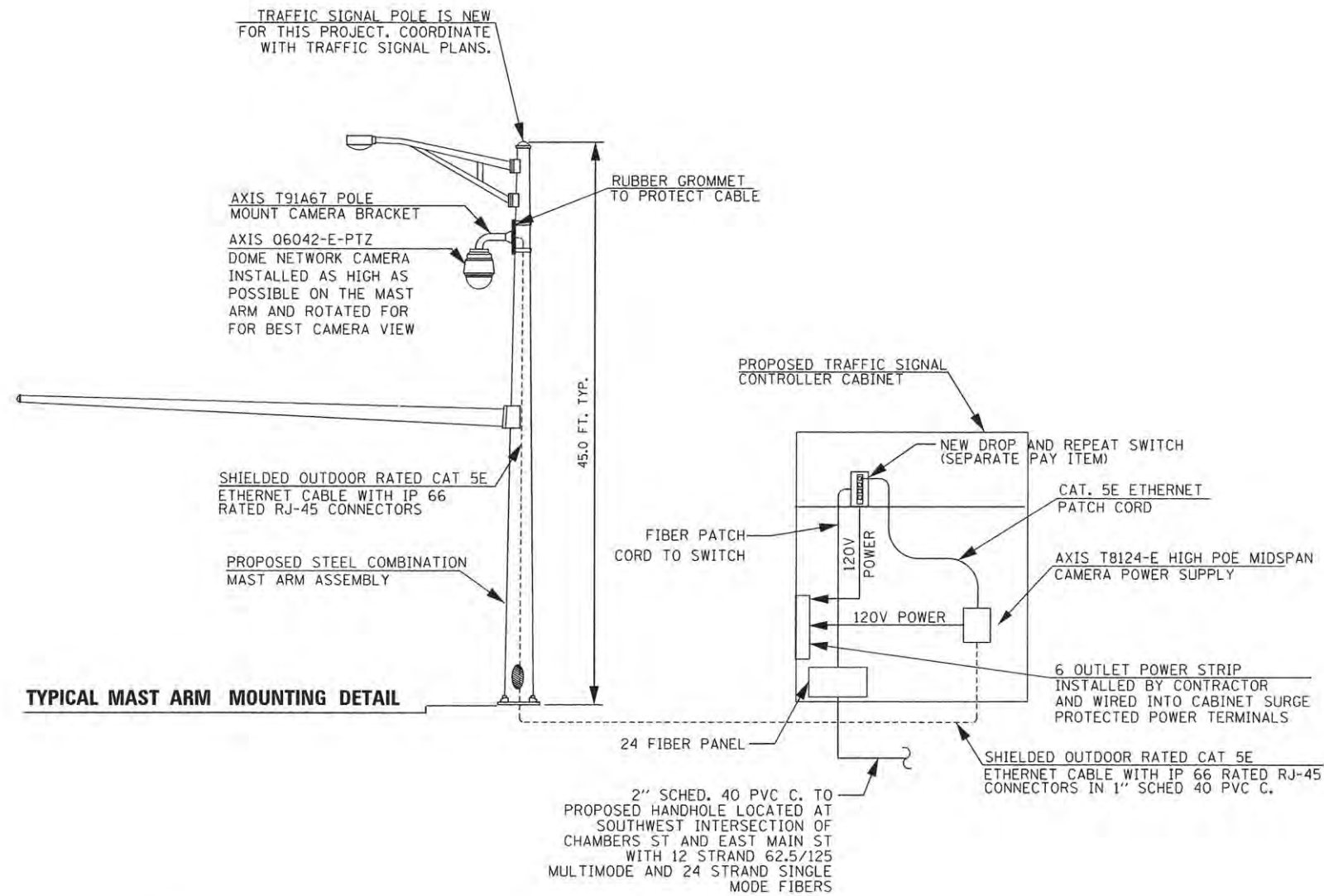
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	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -

**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	216	161
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

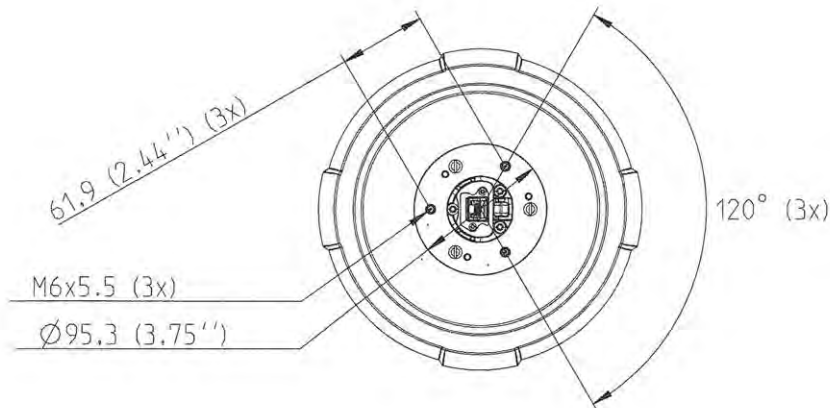
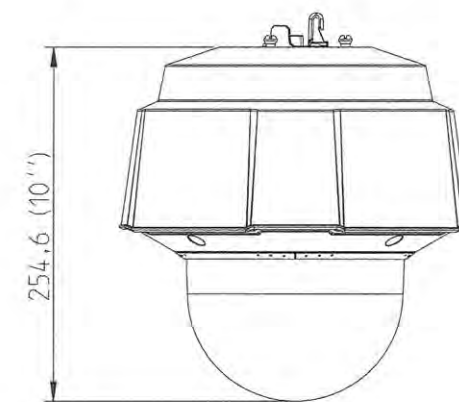
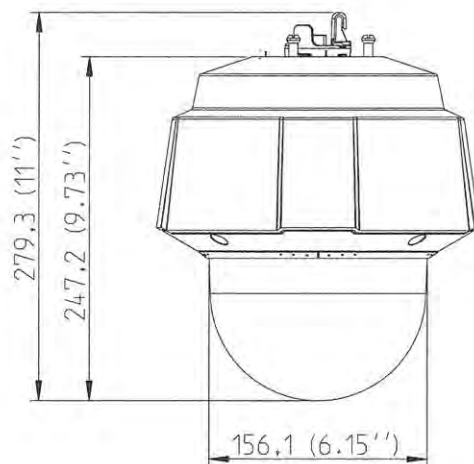
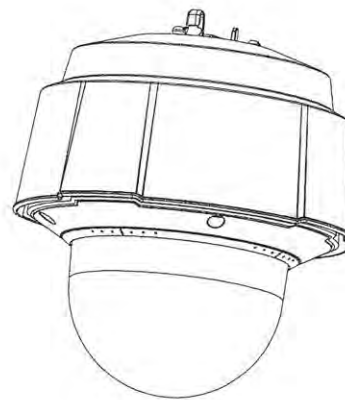
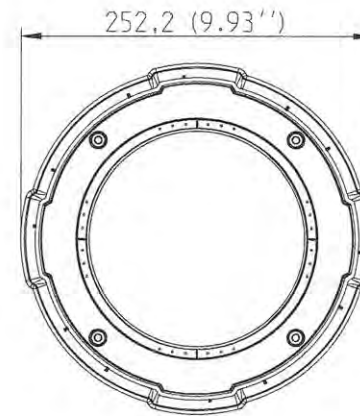
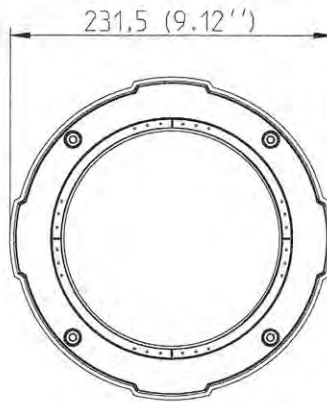
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PLOT DATE = 11/13/2015		DATE - 9/9/2015	REVISED -

**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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	162
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

# AXIS Q6042-E PTZ Dome Network Camera



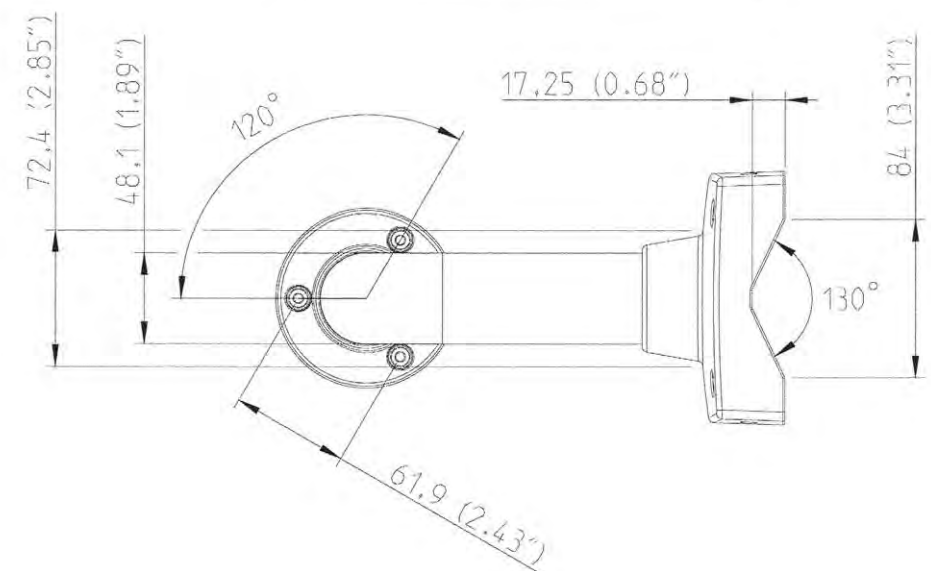
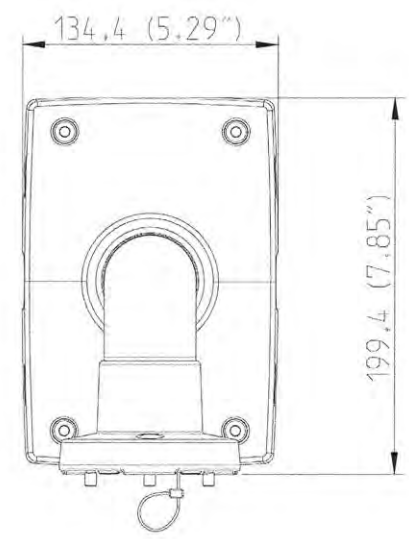
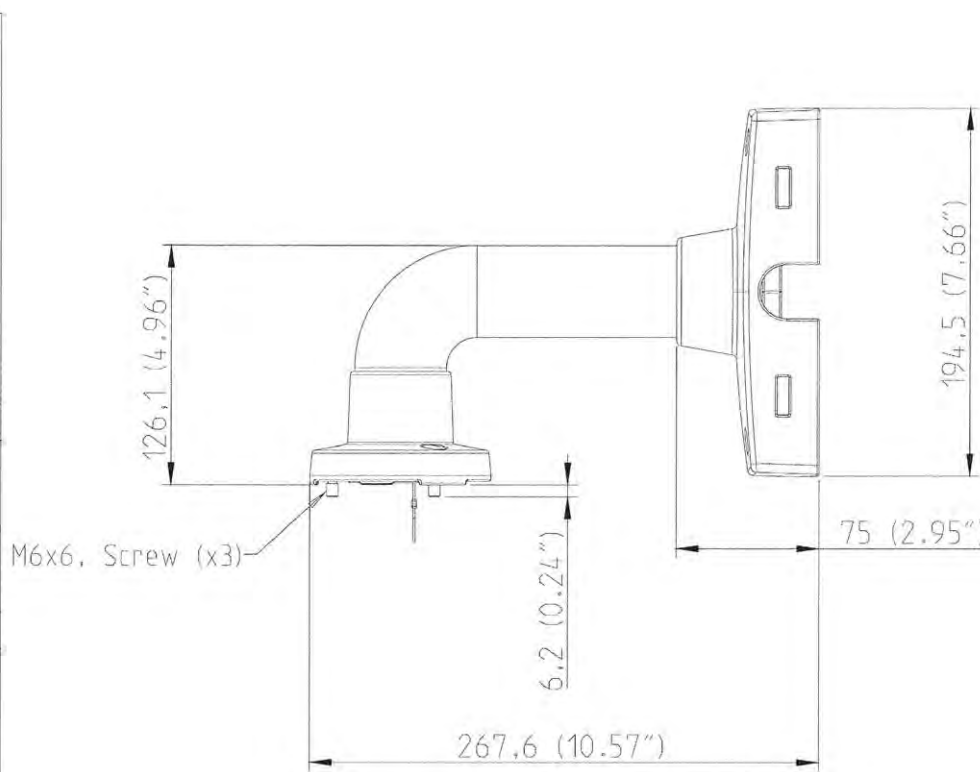
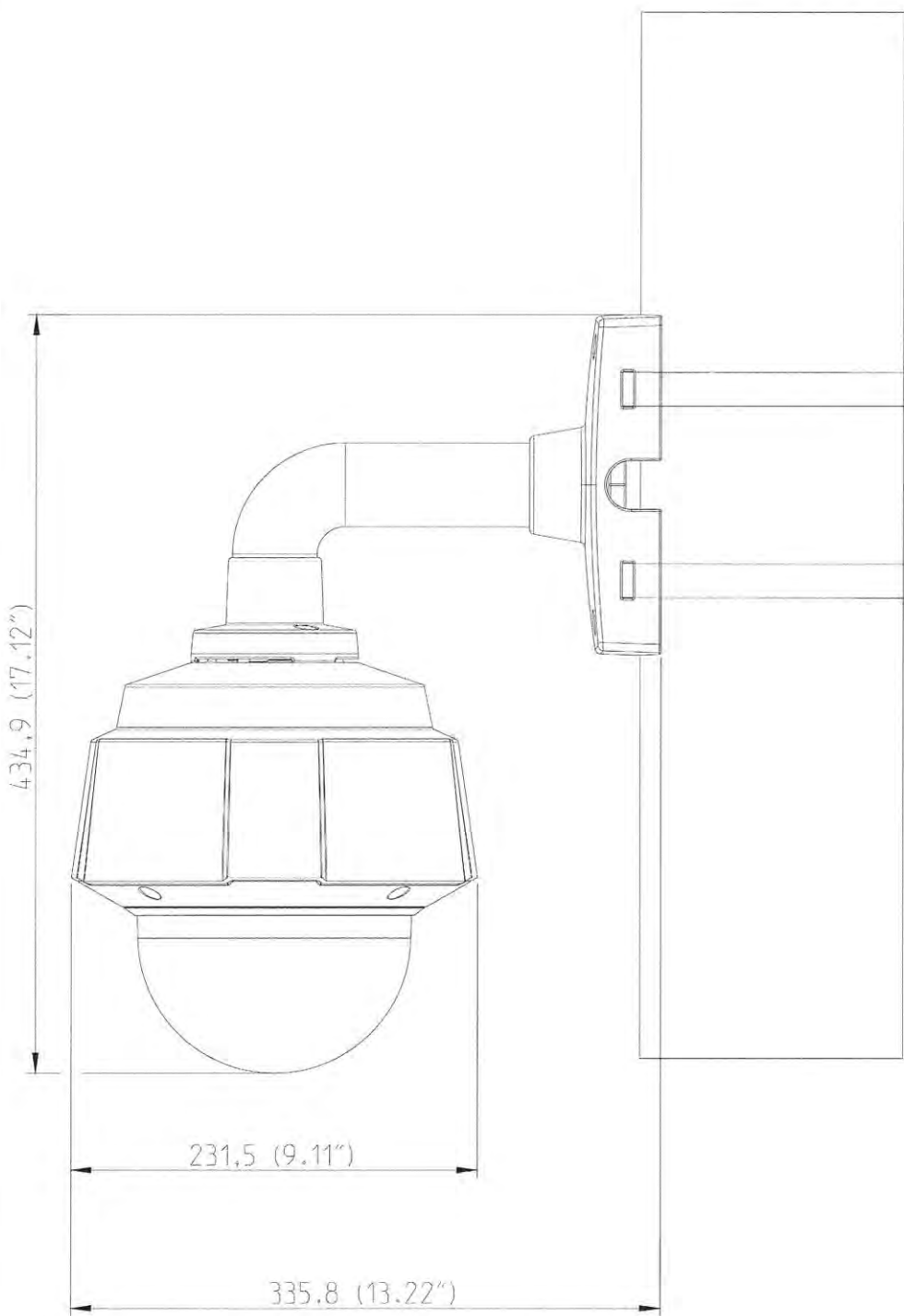
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REVIEWED	RON	7/8/15

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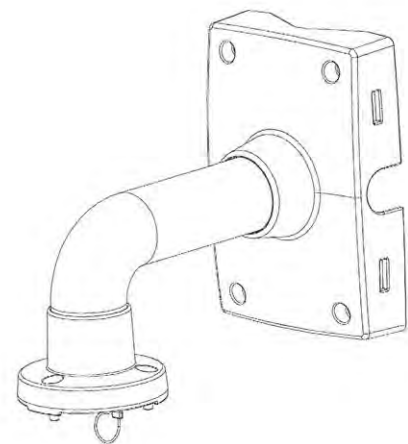
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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	216	163
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY



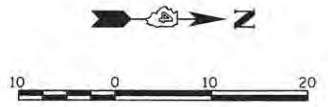
# AXIS T91A67 MOUNT POLE - Accessories



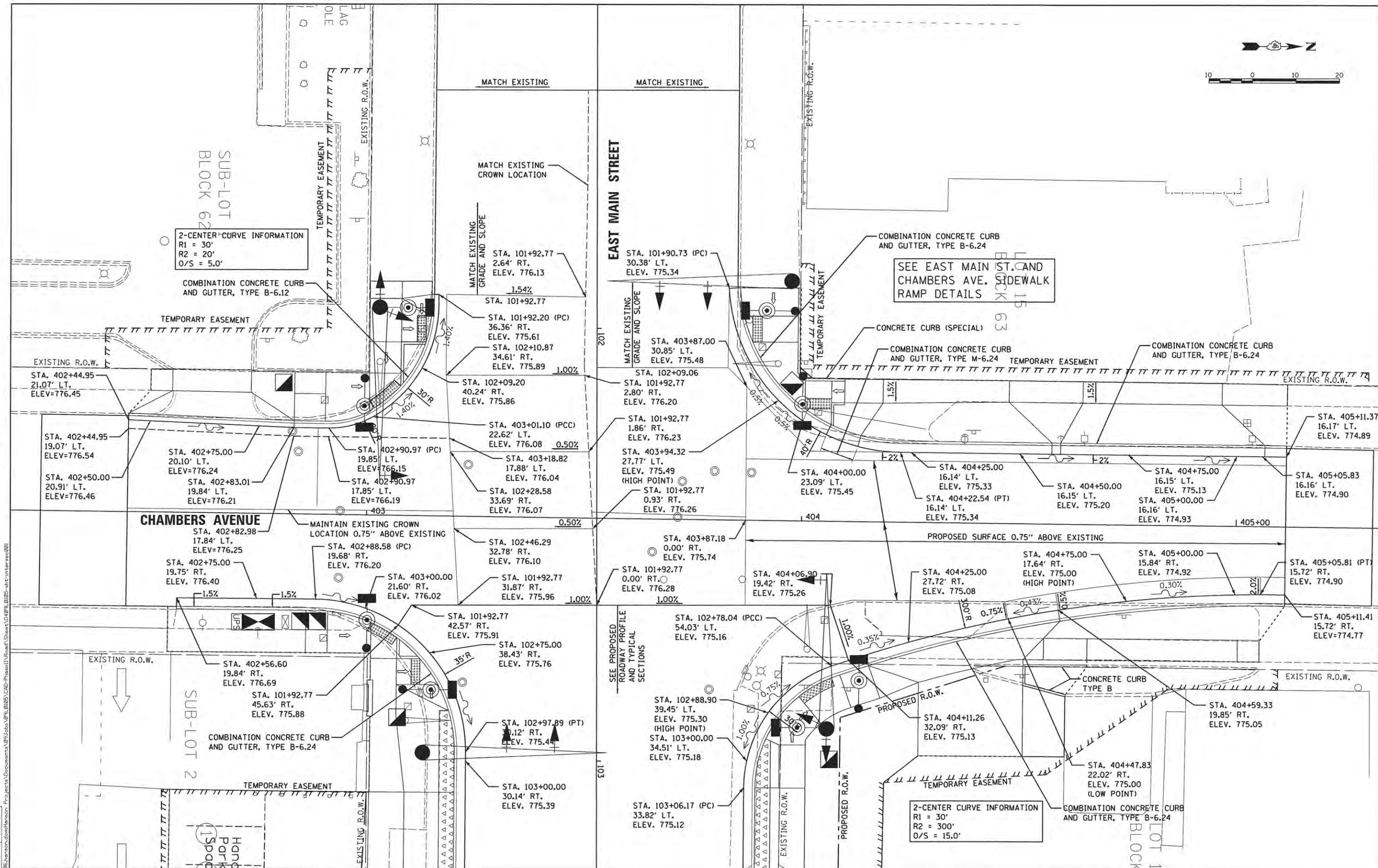
LAYOUT	6/11/15
DRAWN	7/7/15
REVIEWED	7/8/15

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 216	SHEET NO. 164	E-7
SCALE: 1/8"=1'-0"	SHEET NO. OF SHEETS STA. TO STA.	50VB		CONTRACT NO.89417		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	





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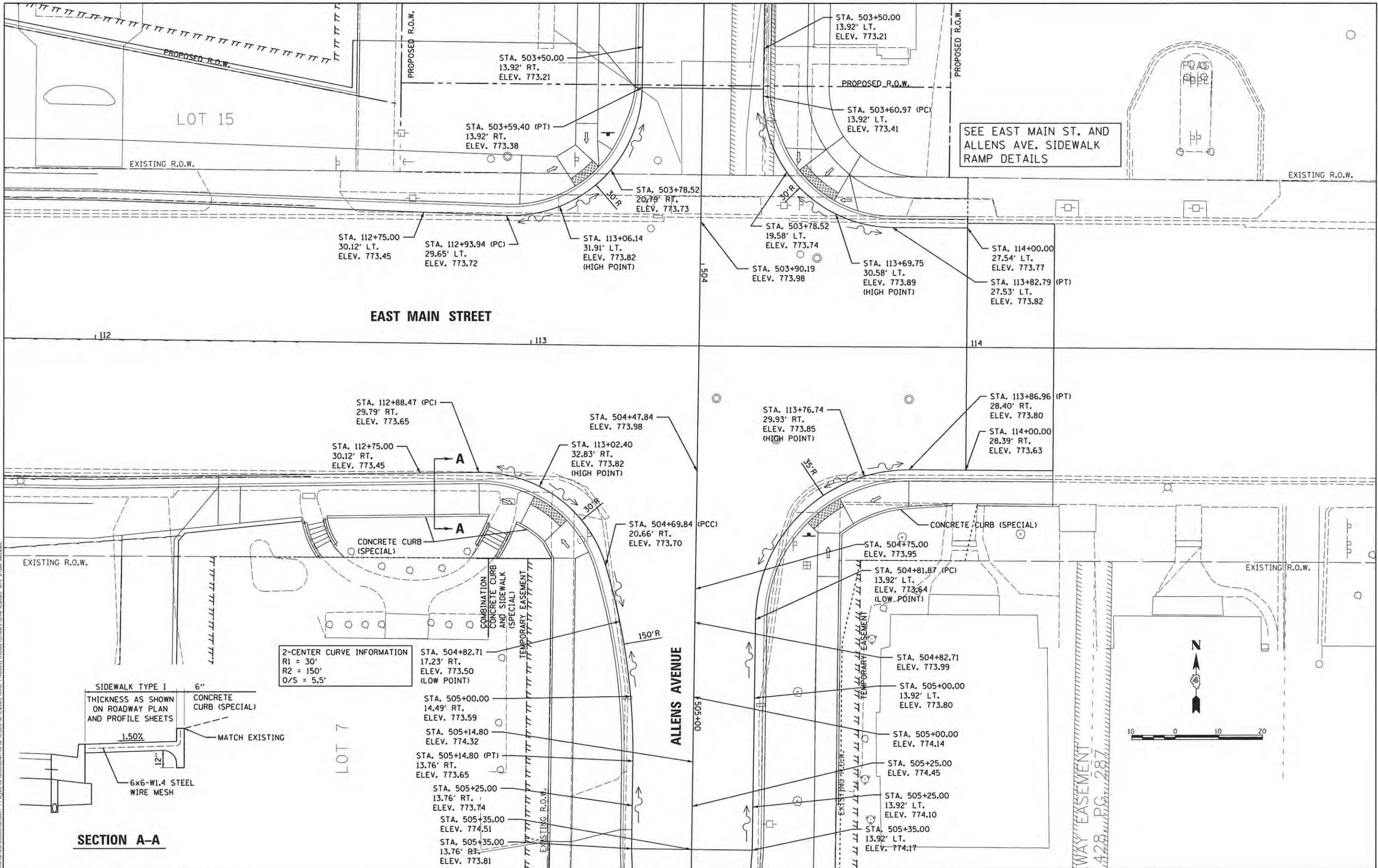
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CHECKED - MPB	REVISOR -
DATE - 9/9/2015	REVISOR -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

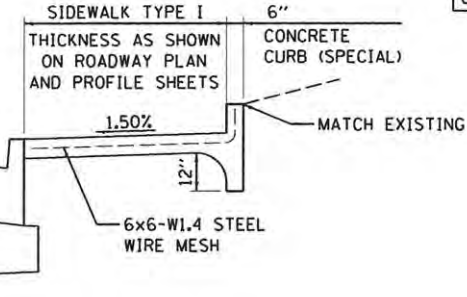
**EAST MAIN STREET AND CHAMBERS STREET**  
**INTERSECTION DETAIL**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	165
SOVB		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**

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

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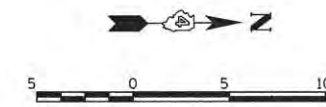
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

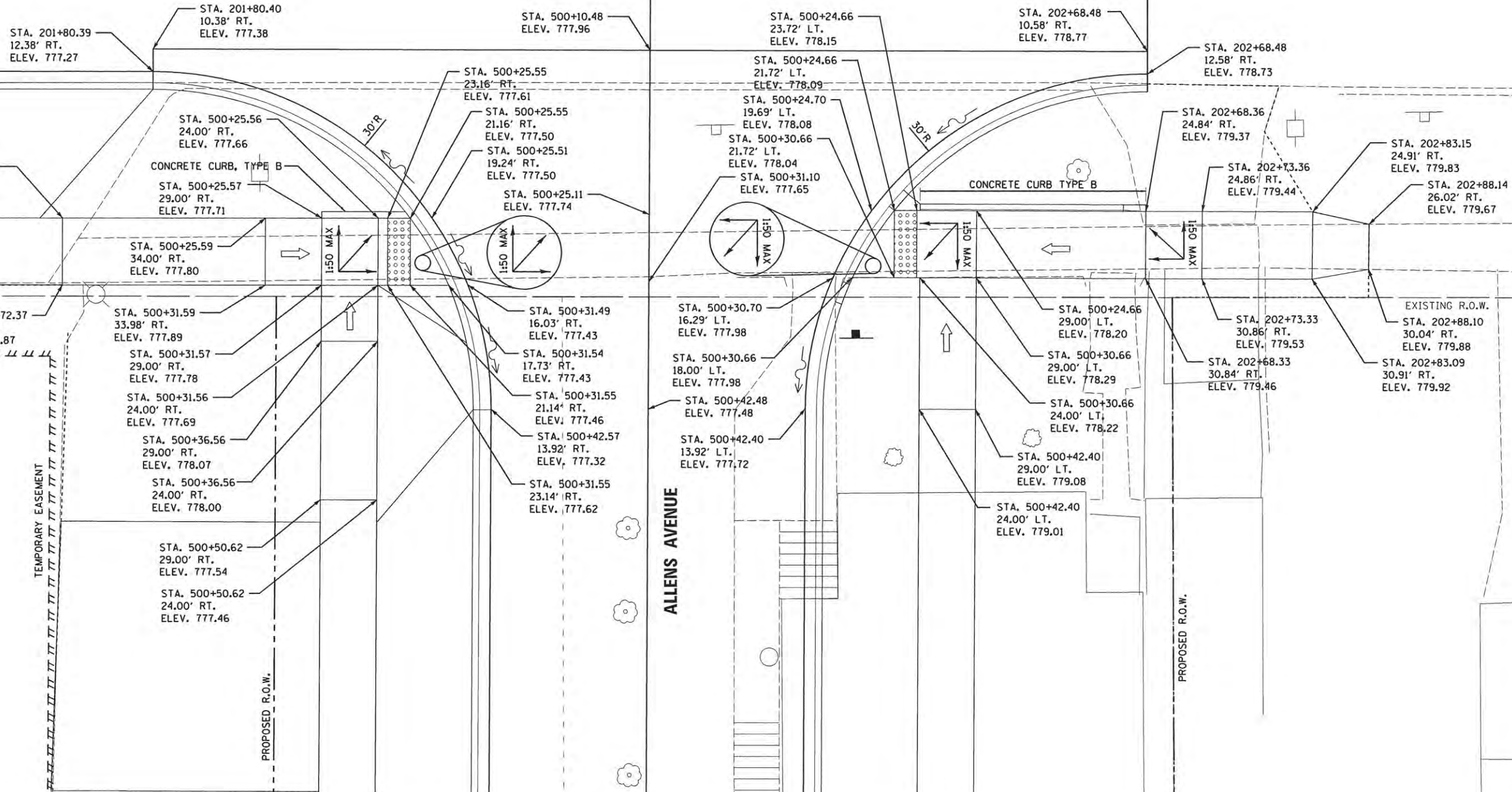
PEARL STREET



202

203

00+005



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

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

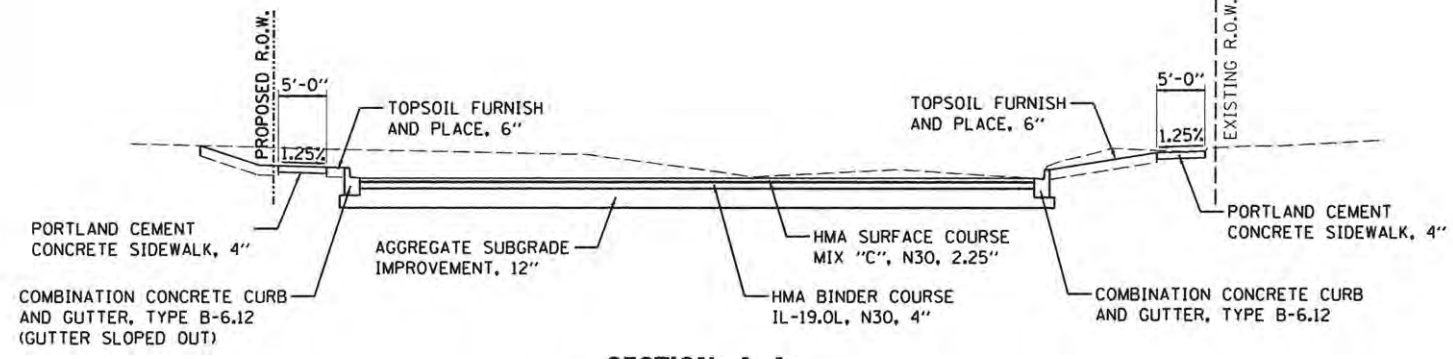
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET AND ALLENS AVENUE  
INTERSECTION DETAIL**

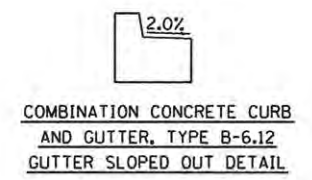
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	167
50VB		CONTRACT NO. 89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

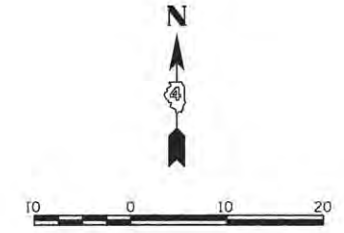
STRUCTURE NUMBER	STATION	OFFSET	TYPE	RIM INVERT ELEVATIONS				
				ELEVATION	N	S	E	W
S111	107+65.30	129.22 LT	INLET, TYPE A, TYPE 11 FRAME AND GRATE	778.19	775.00			



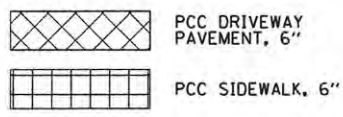
**SECTION A-A**



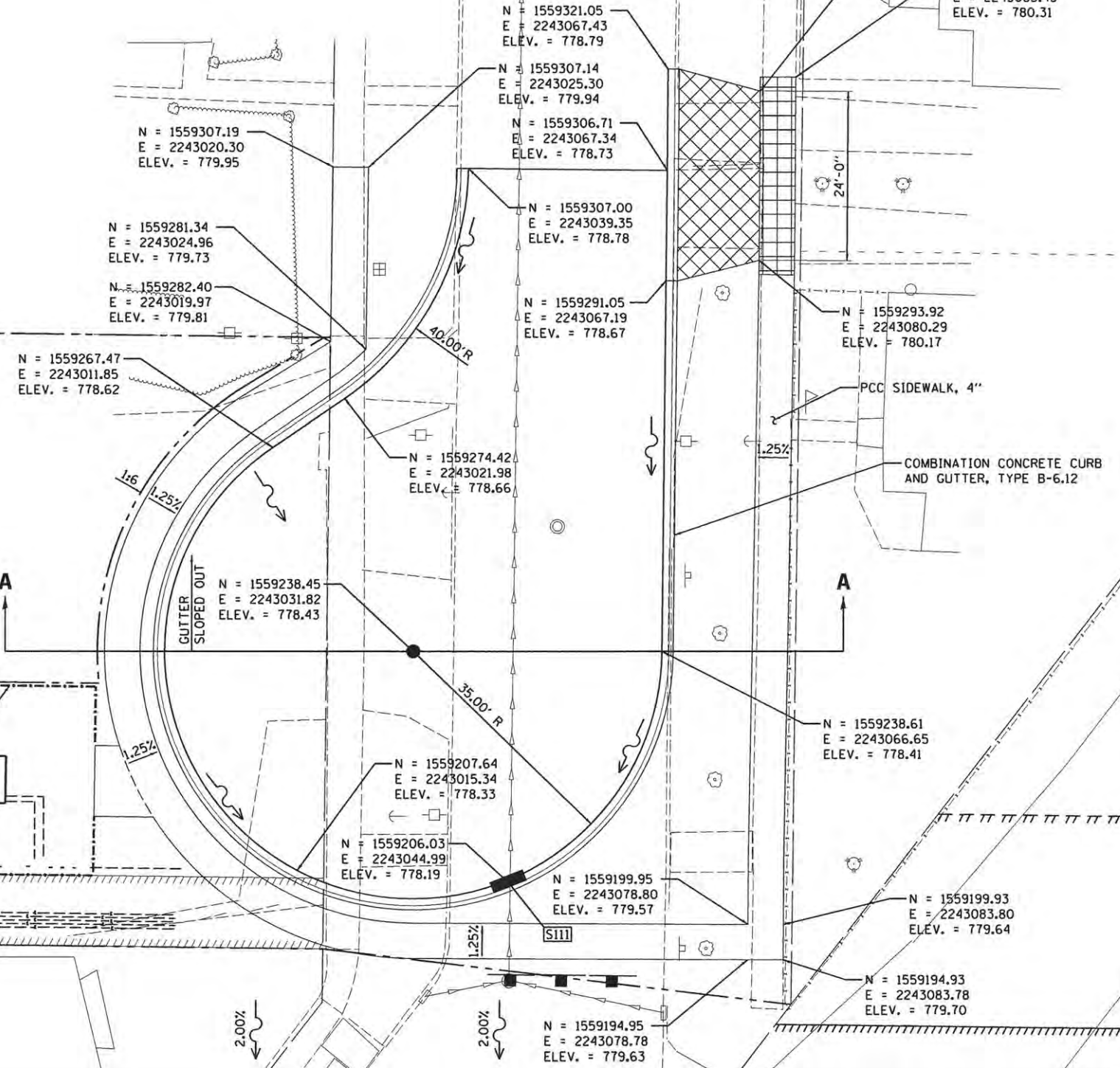
**SUMNER STREET**



**LEGEND - DRIVEWAYS**



SEE ELECTRICAL SERVICE AND GENERATOR SITE PLAN



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

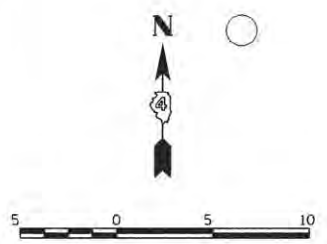
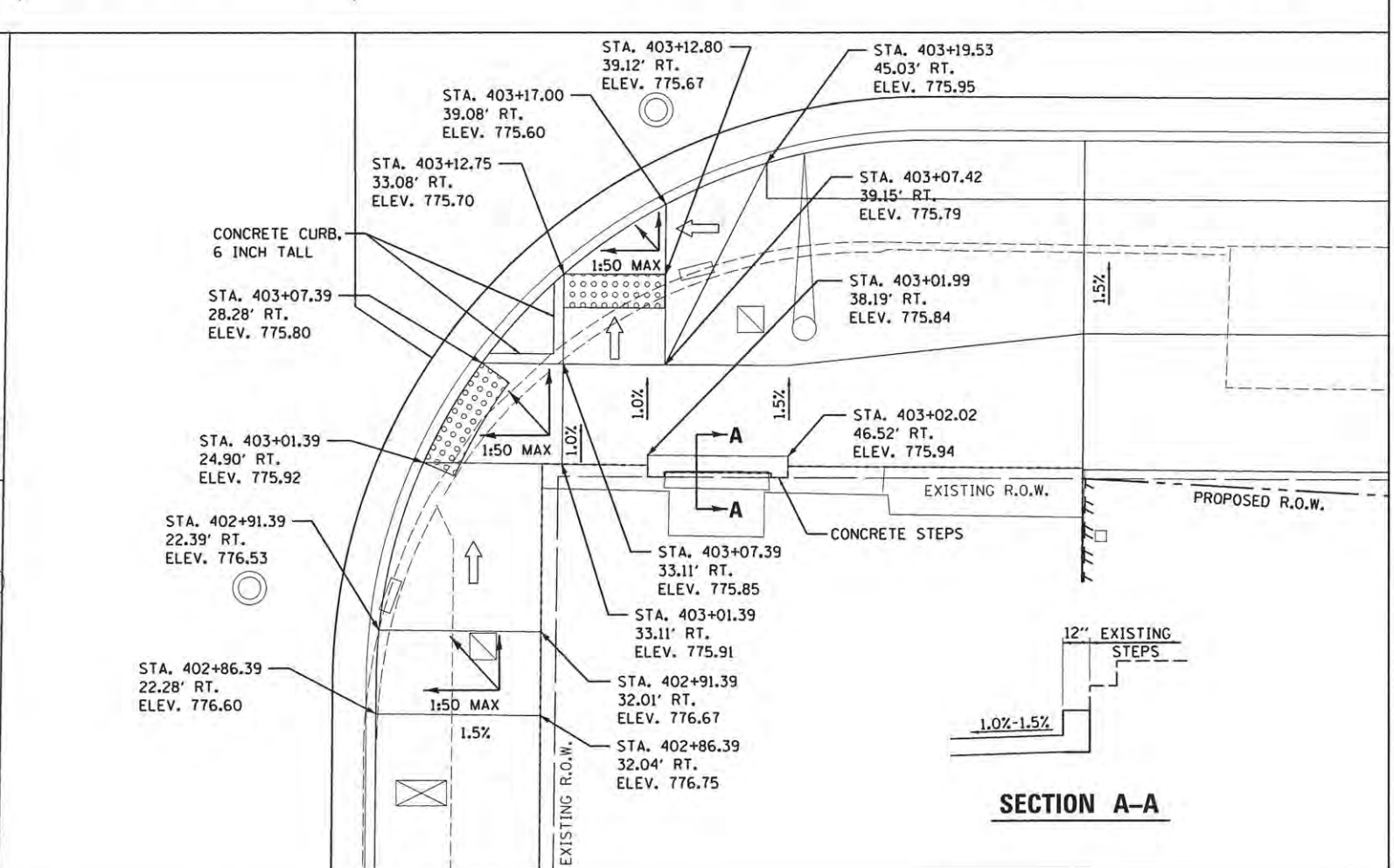
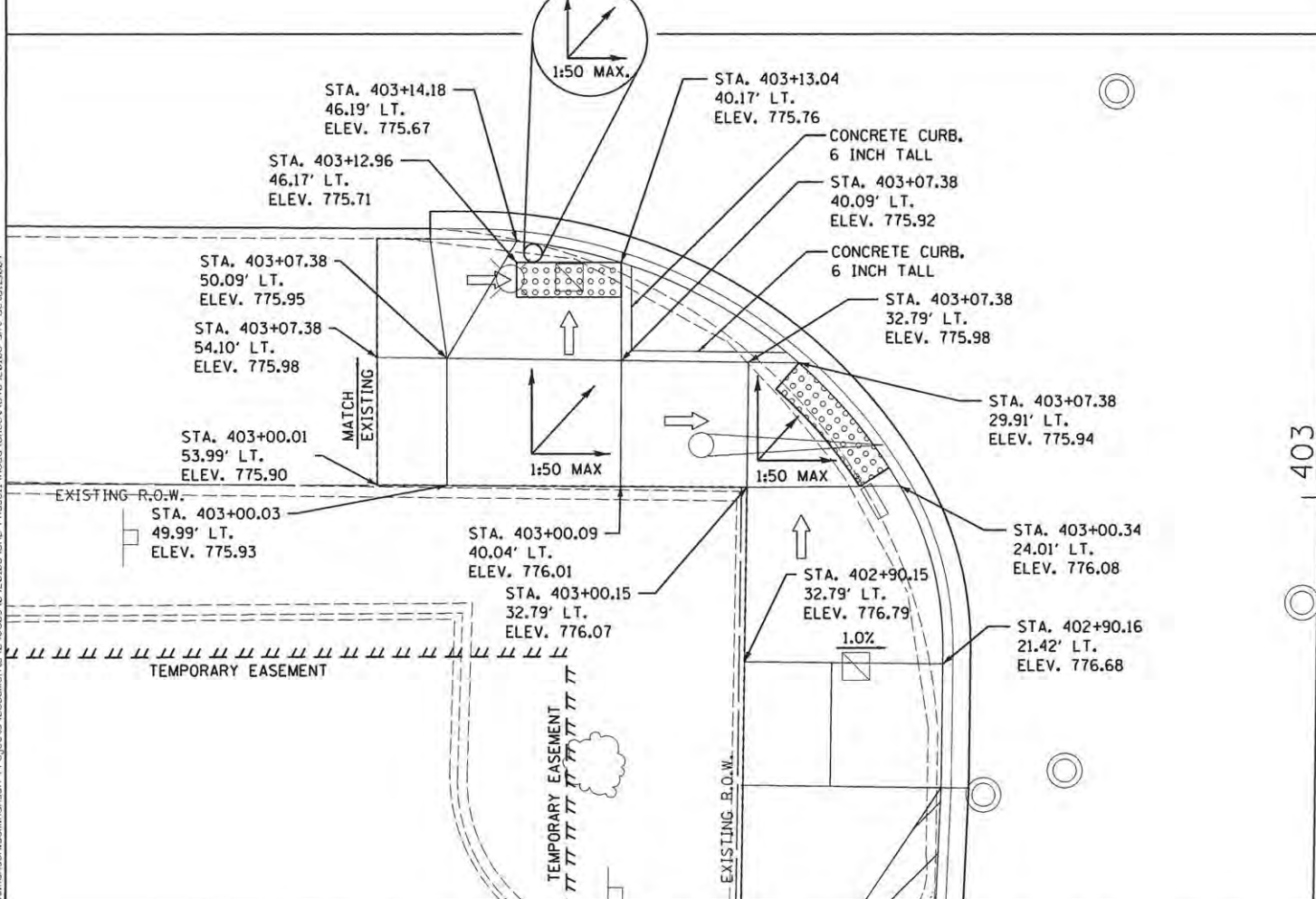
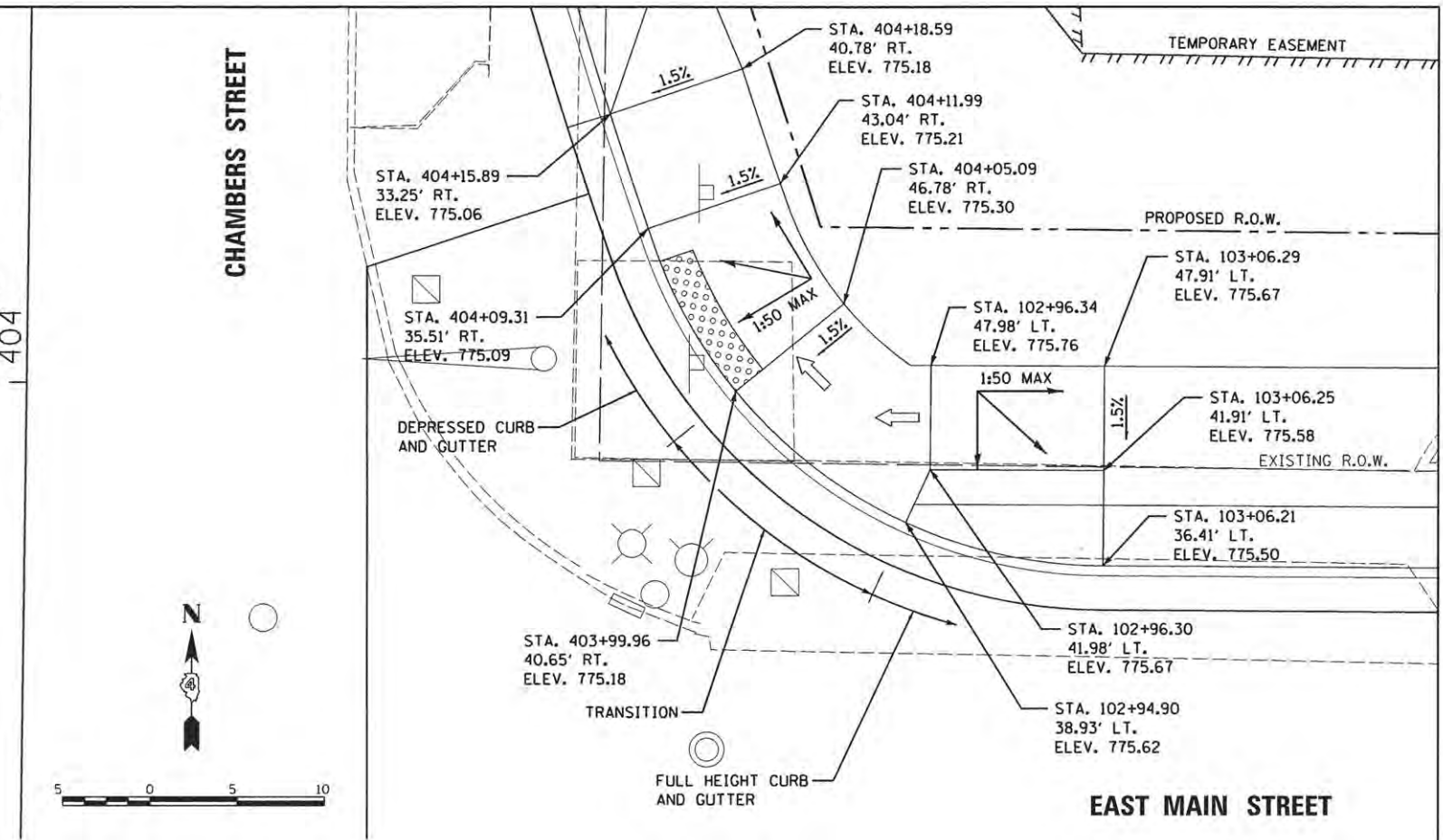
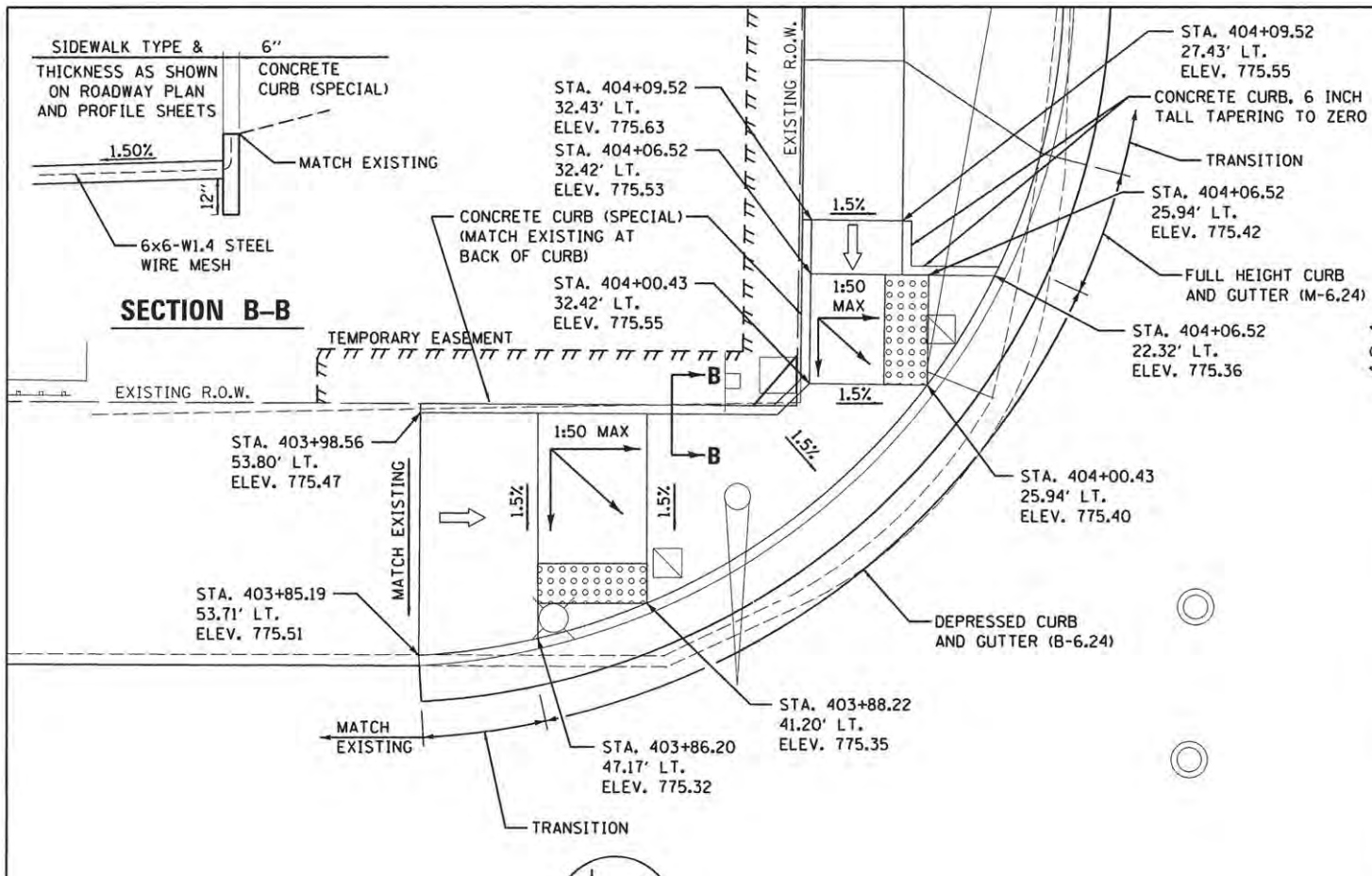
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		CHECKED - MPB	REVISED -
		DATE - 9/9/2015	REVISED -

**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	216	168
50VB		CONTRACT NO. 89417		
FED. ROAD DIST. NO.      [ILLINOIS] FED. AID PROJECT				



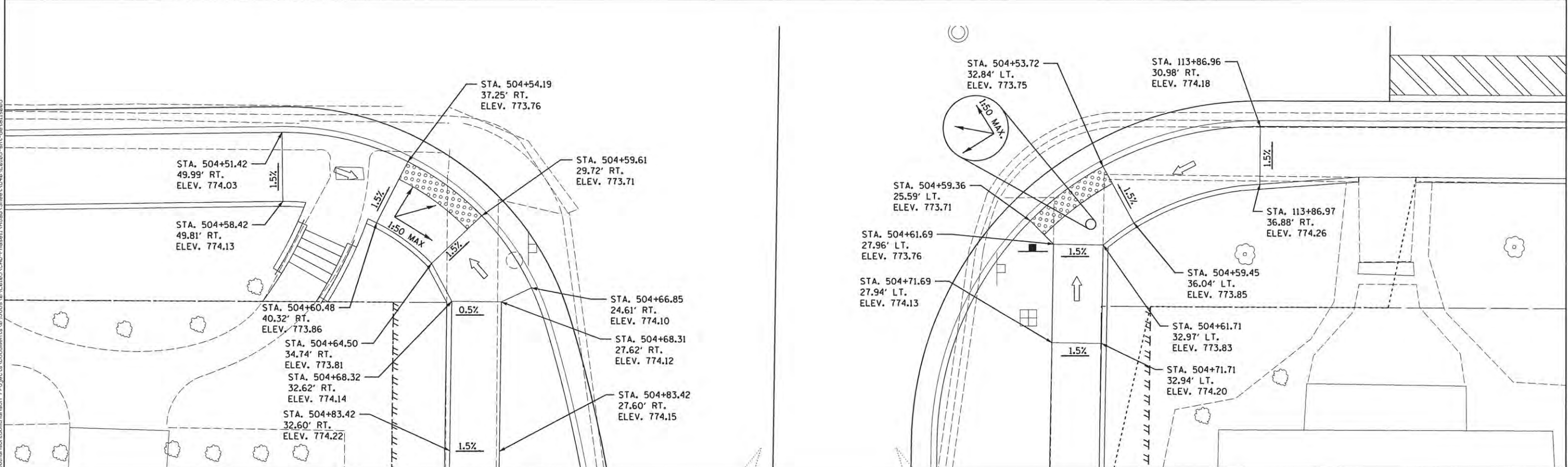
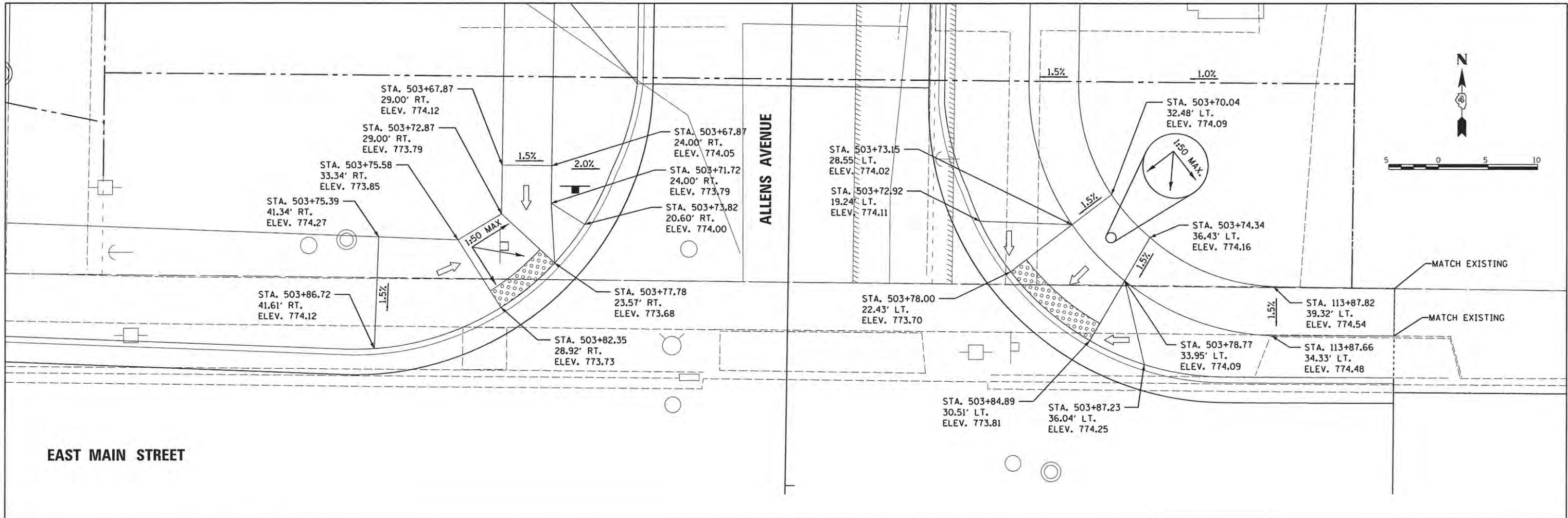
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DRAWN	5/27/15
REVIEWED	5/28/15

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EAST MAIN STREET AND CHAMBERS STREET          SIDEWALK RAMP DETAILS</b>	
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	216	169
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

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	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

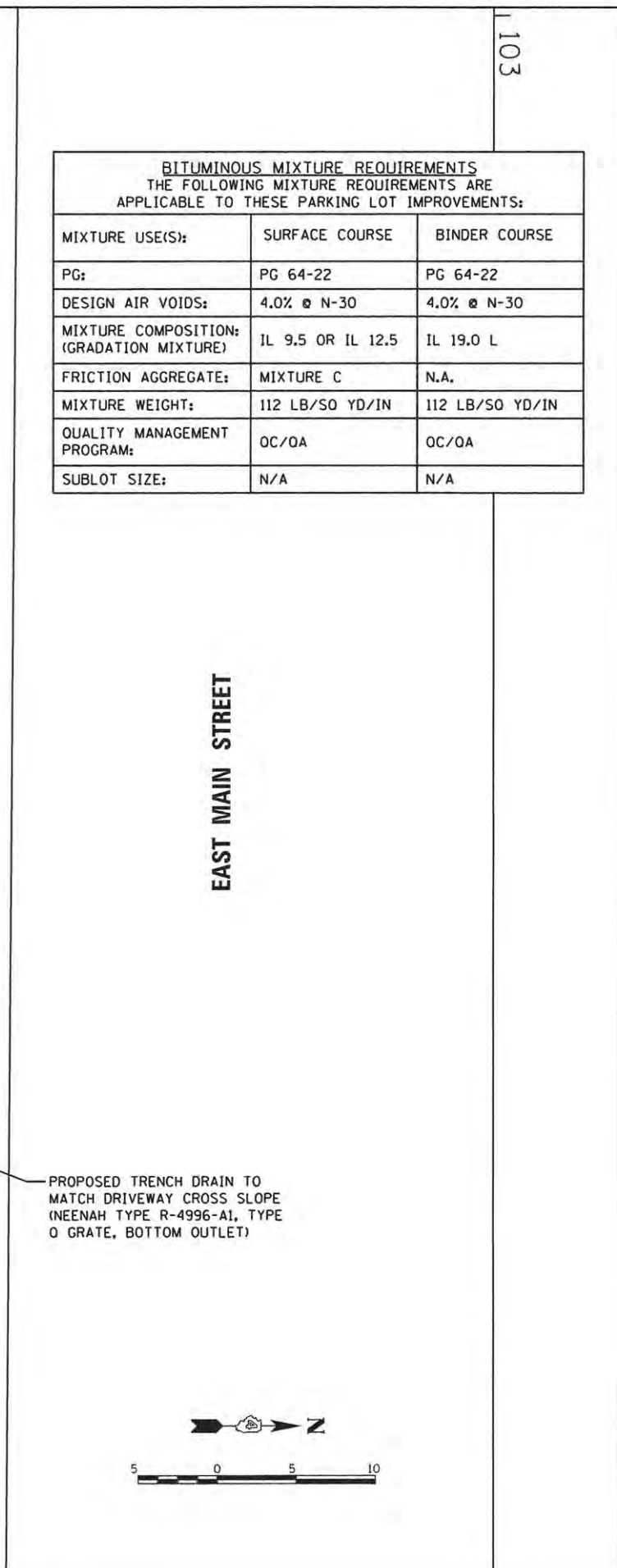
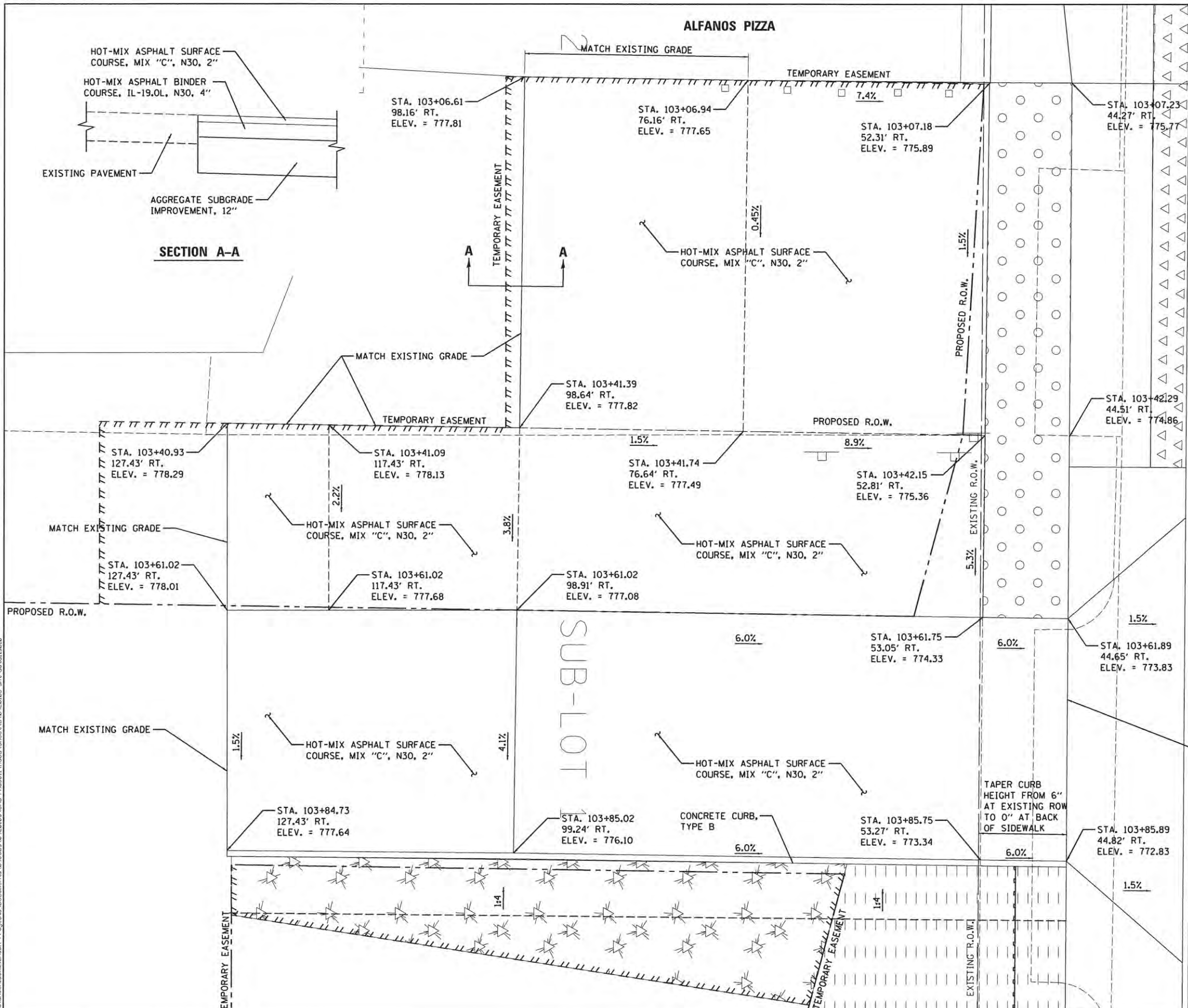
SCALE: 1"=5'

SHEET NO. OF SHEETS STA. TO STA.

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

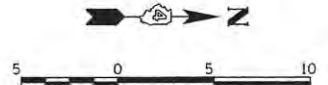
**BITUMINOUS MIXTURE REQUIREMENTS**  
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THESE PARKING LOT IMPROVEMENTS:

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:	OC/OA	OC/OA
SUBLOT SIZE:	N/A	N/A



**EAST MAIN STREET**

PROPOSED TRENCH DRAIN TO MATCH DRIVEWAY CROSS SLOPE (NEENAH TYPE R-4996-A1, TYPE O GRATE, BOTTOM OUTLET)



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

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PLOT DATE = 11/13/2015		DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

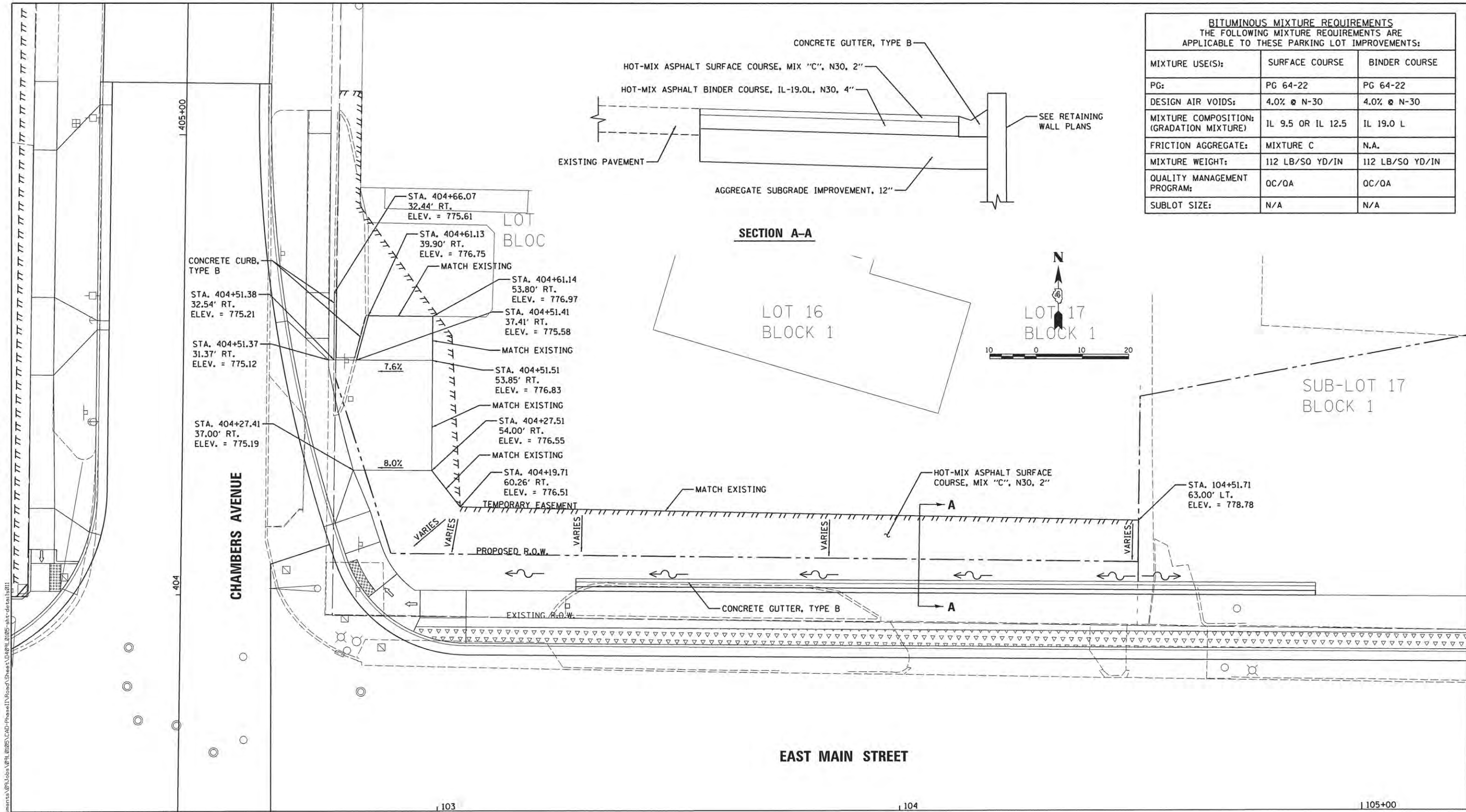
**SITE LAYOUT AND GRADING DETAILS  
508 EAST MAIN STREET**

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

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

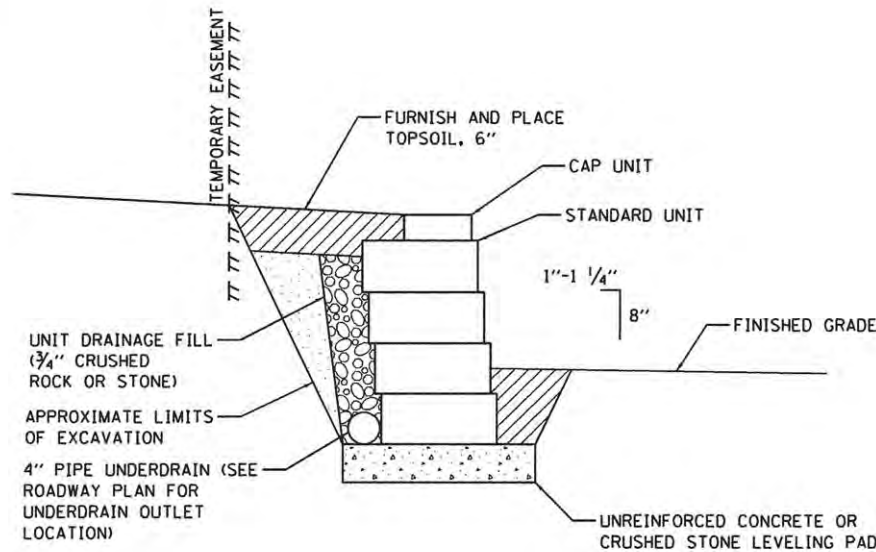
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 MGD  
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 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -  
 DATE - 9/9/2015  
 REVISED -  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SITE LAYOUT AND GRADING DETAILS  
 515 EAST MAIN STREET  
 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 216 172  
 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



LAYOUT DRAWN REVIEWED 2/11/14 5/27/15 5/28/15 RLA MGD MPB	FILE NAME = c:\pwise_work\do_not_delete\0273754\04910105-shd-detailed.dgn USER NAME = andr-00046 DESIGNED - RLA DRAWN - MGD CHECKED - MPB PLOT DATE = 11/13/2015	REVISED - REVISED - REVISED - REVISED - DATE - 9/9/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SITE LAYOUT AND GRADING DETAILS 515 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 216 172 50VB CONTRACT NO.89417 FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT
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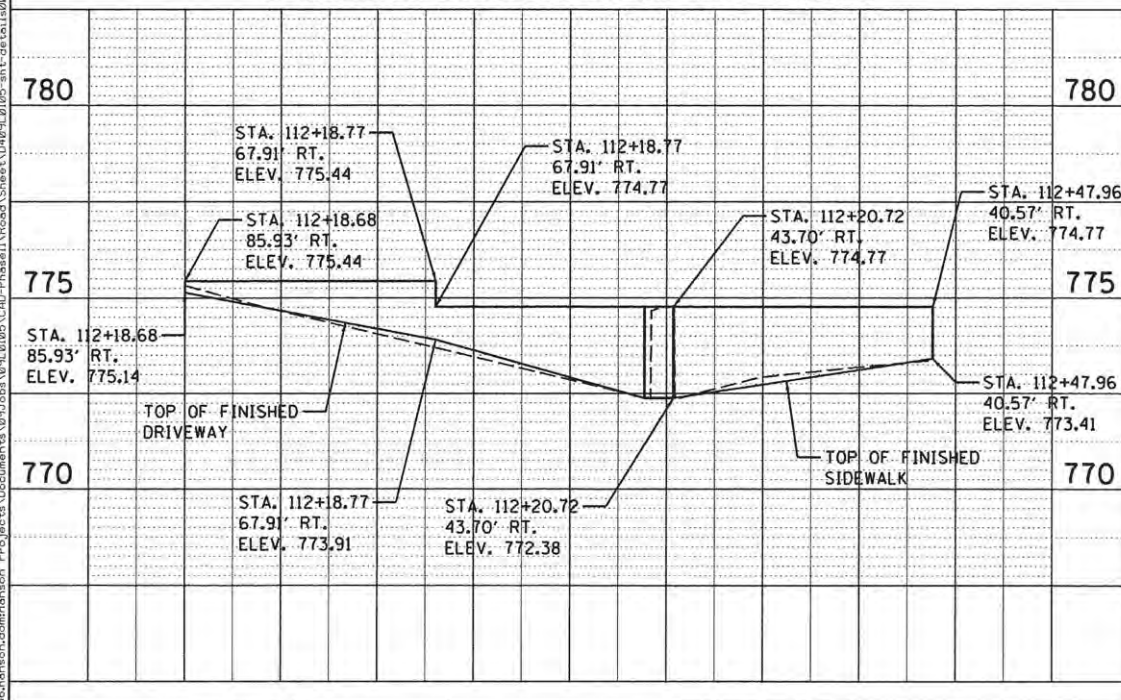
**SECTION A-A  
SEGMENTAL CONCRETE  
BLOCK WALL DETAIL**

(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

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LAYOUT 2/11/14  
DRAWN 5/27/15  
REVIEWED MPB 5/28/15  
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CHECKED - MPB  
PLOT DATE = 11/13/2015  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

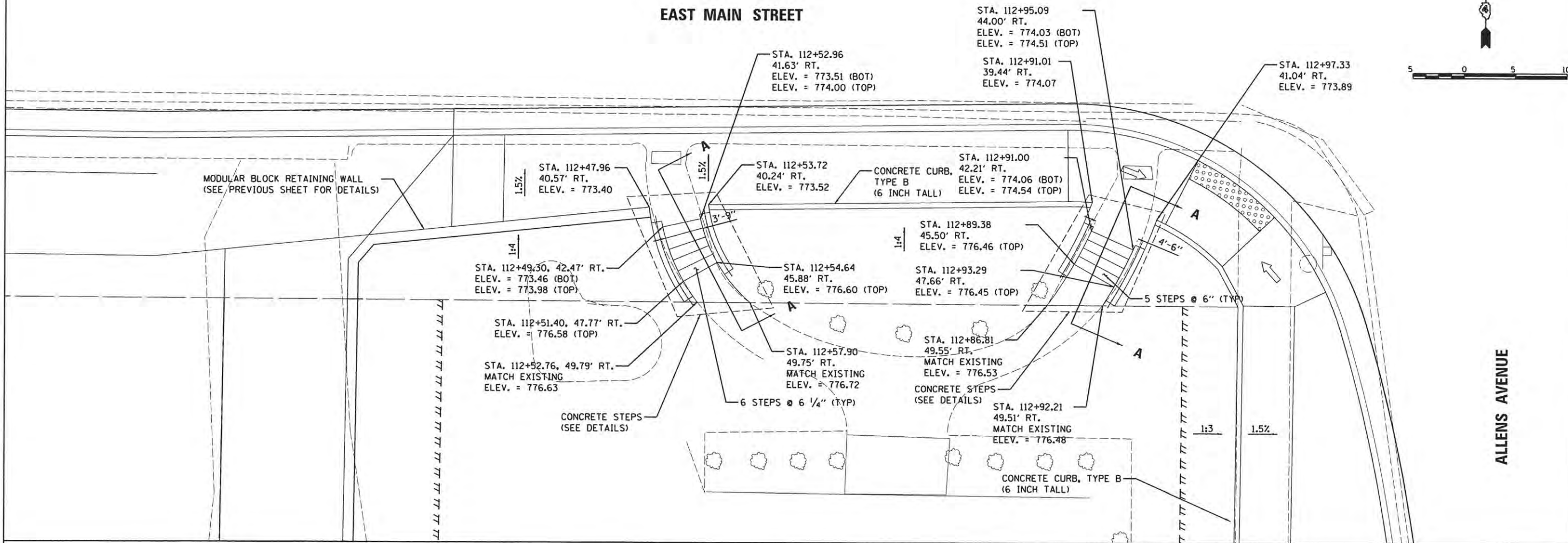
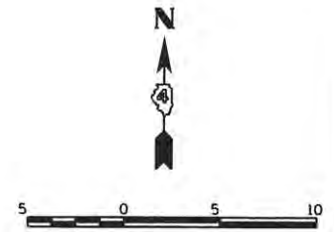
**SITE LAYOUT, GRADING, AND WALL DETAILS  
712 AND 748 EAST MAIN STREET**

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

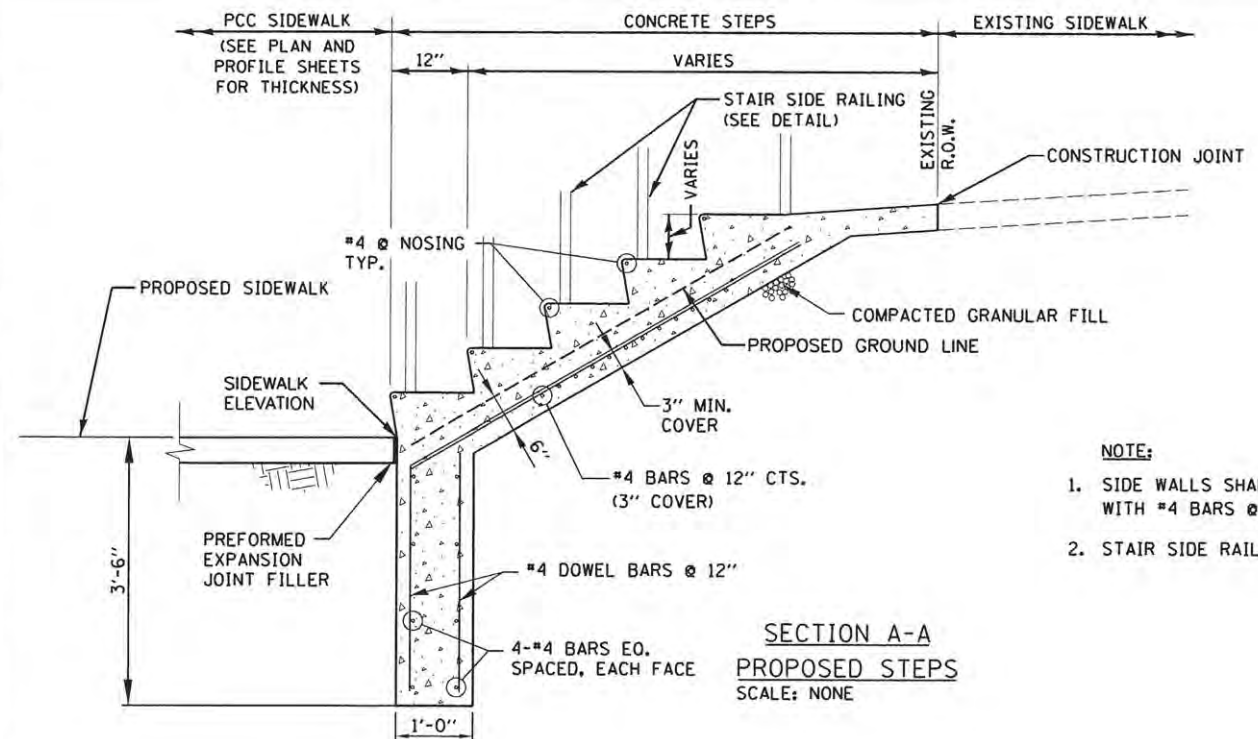
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50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



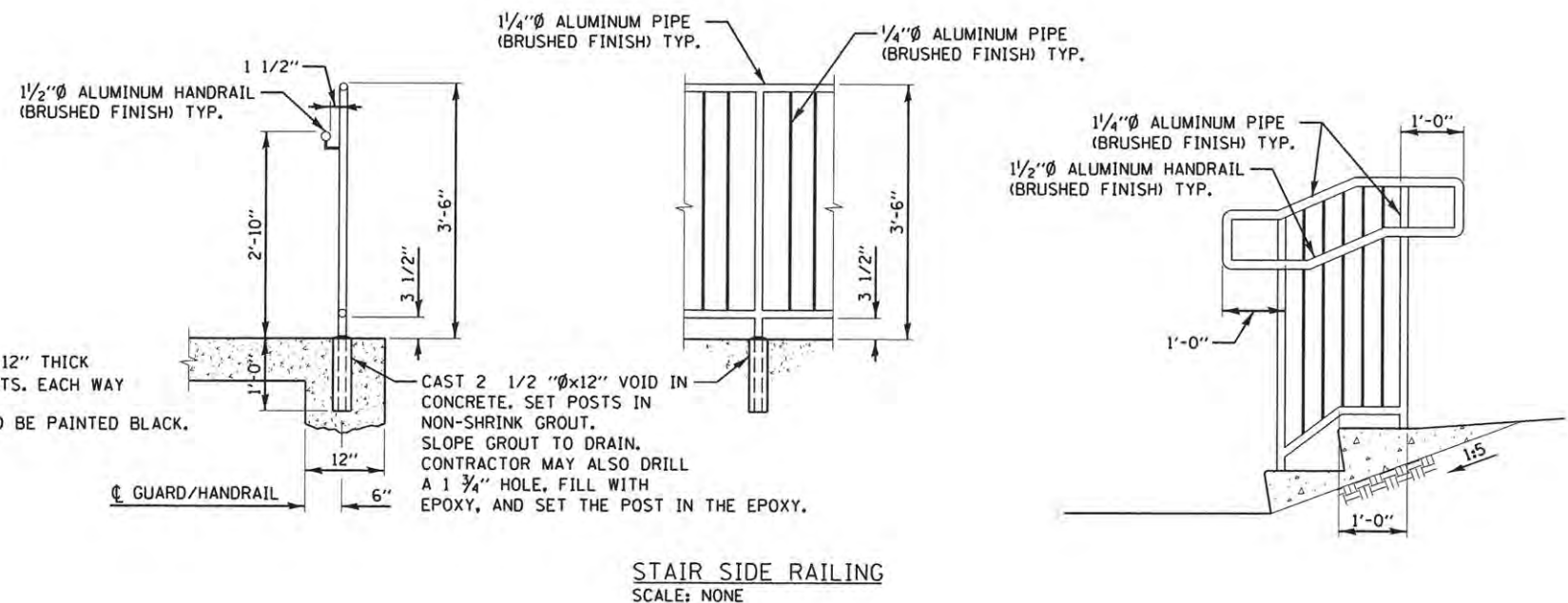
**EAST MAIN STREET**



**ALLENS AVENUE**



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



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

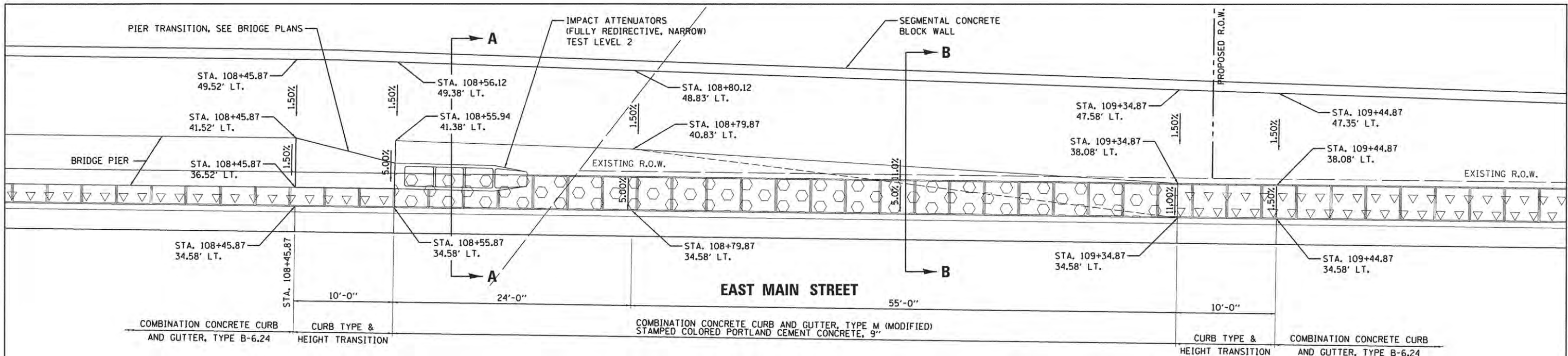
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PLOT DATE = 11/13/2015	DATE -	9/9/2015	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

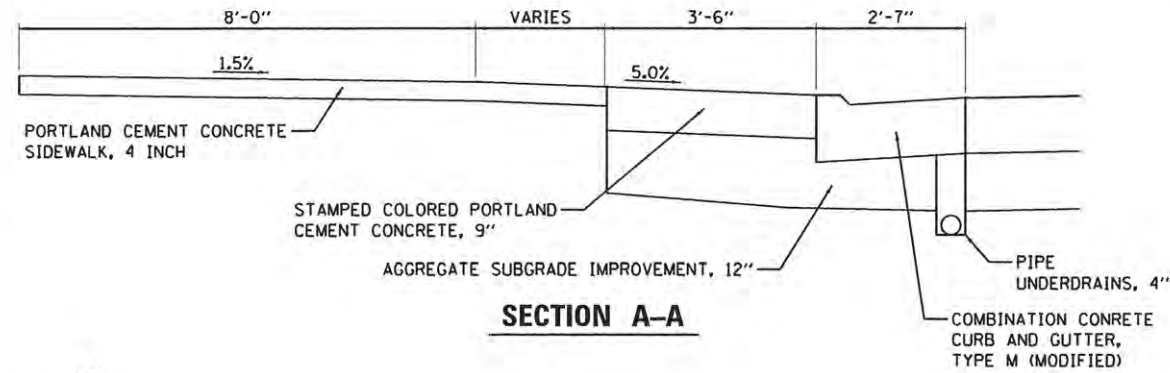
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6800	05-00500-19-GS	KNOX	216	174
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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



**WESTBOUND IMPACT ATTENUATOR LAYOUT**

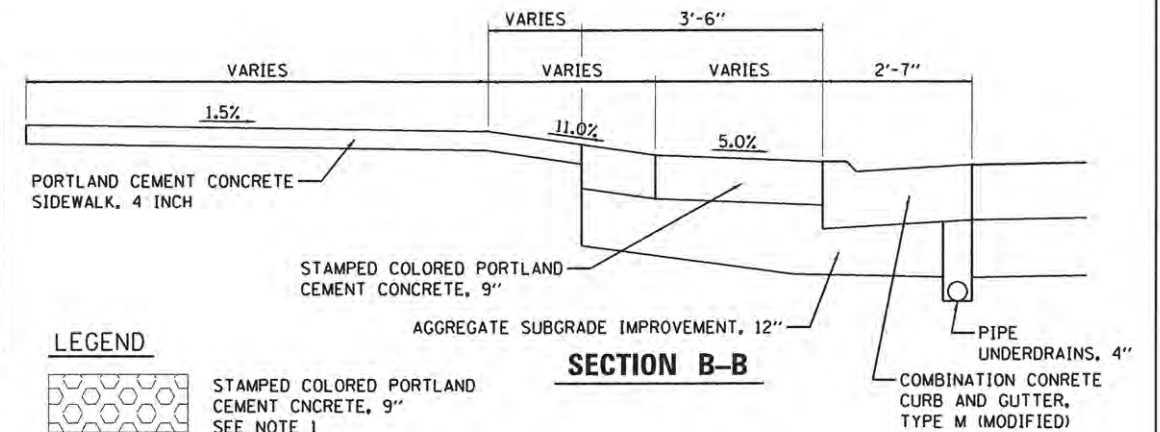
STA. 108+45.83 TO STA. 109+44.86



**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



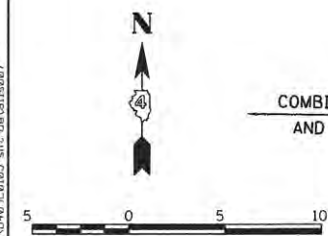
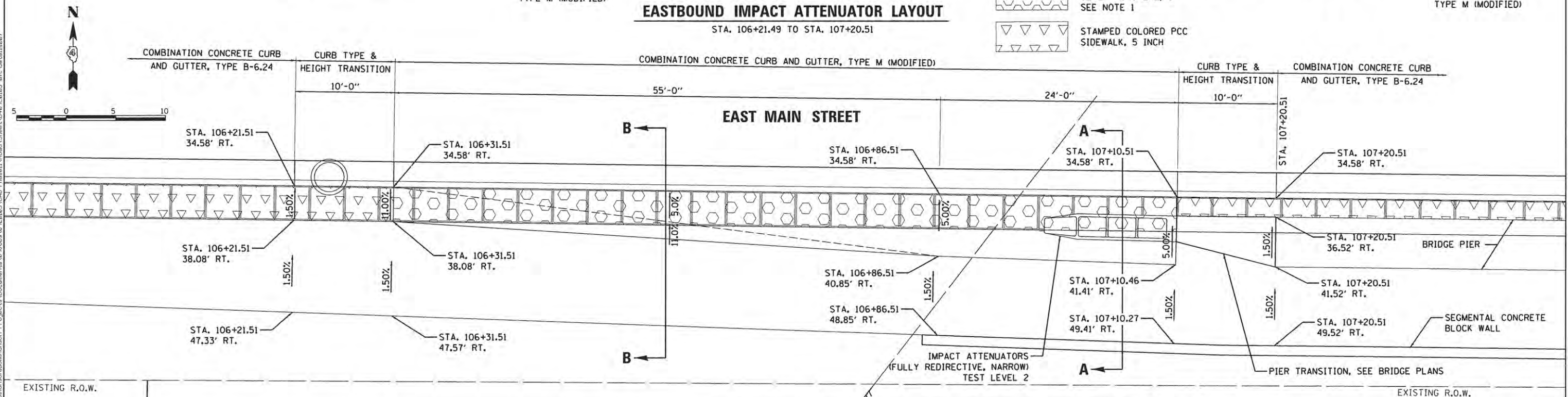
**SECTION B-B**

**LEGEND**

- STAMPED COLORED PORTLAND CEMENT CONCRETE, 9" SEE NOTE 1
- STAMPED COLORED PCC SIDEWALK, 5 INCH

**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

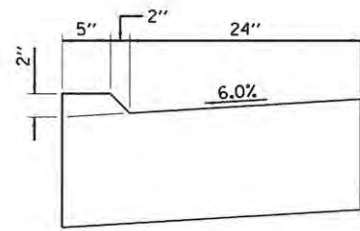
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

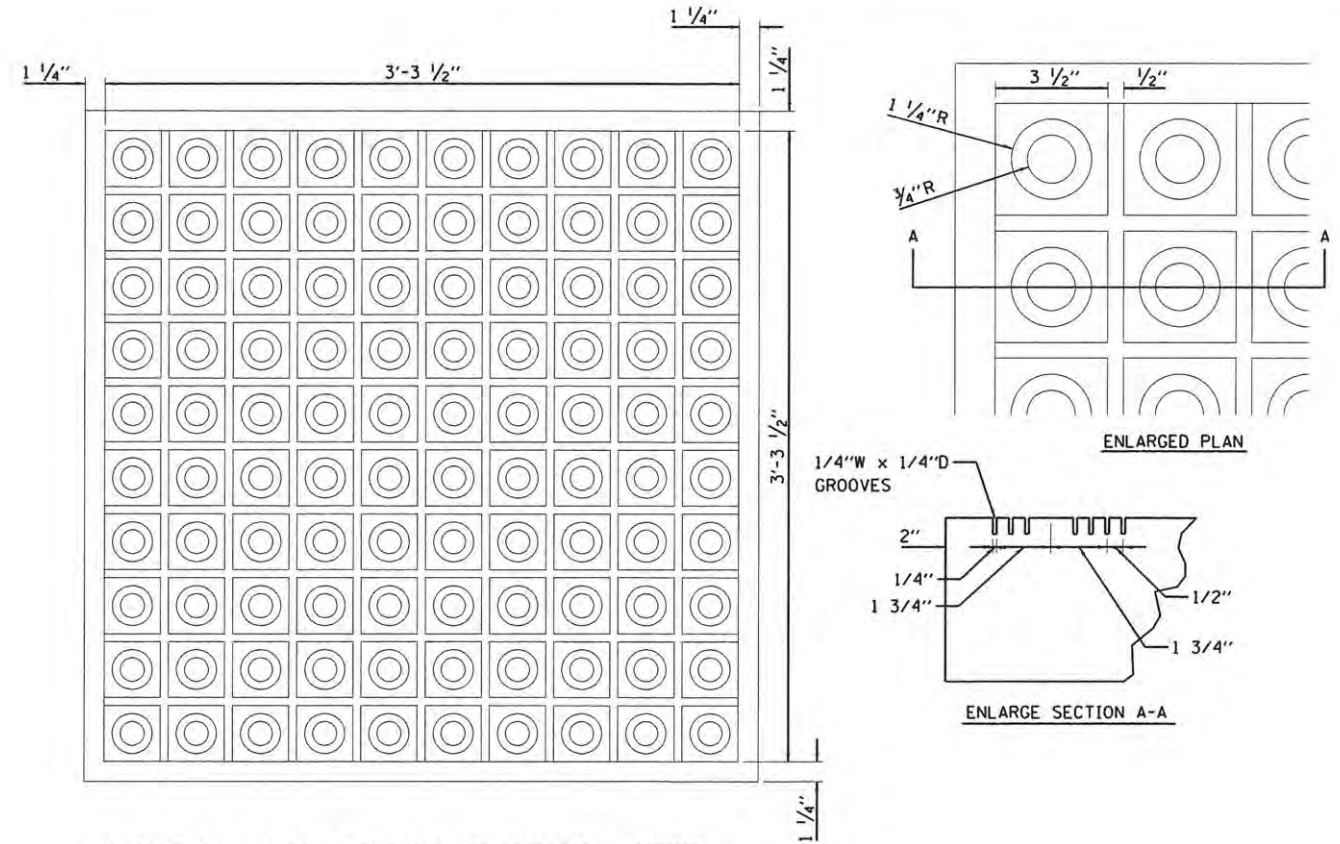
**EAST MAIN STREET  
 IMPACT ATTENUATOR LAYOUT**

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

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



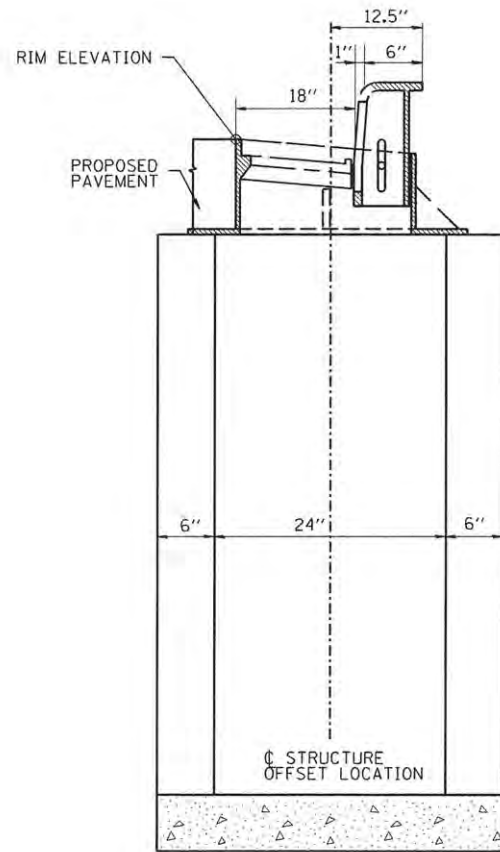
**COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED)**



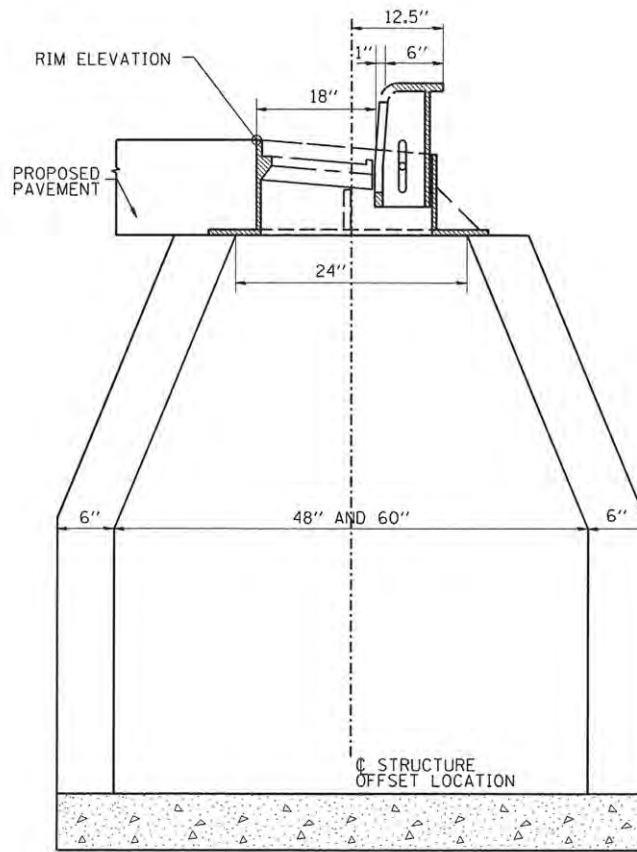
**STAMPED COLORED PCC SIDEWALK, 5 INCH  
STAMPED COLORED PORTLAND CEMENT CONCRETE, 9"**

**NOTES:**

1. 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**

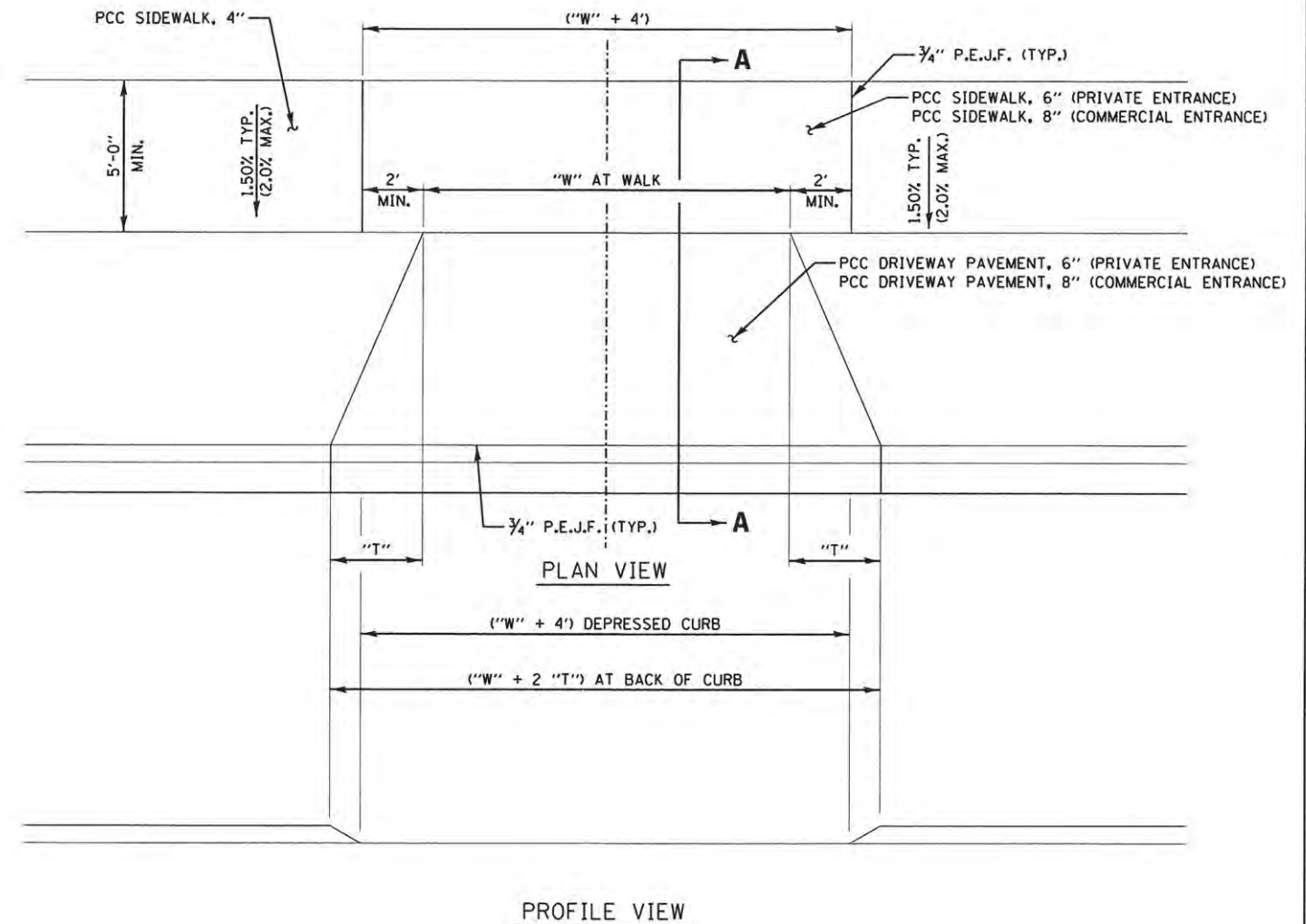
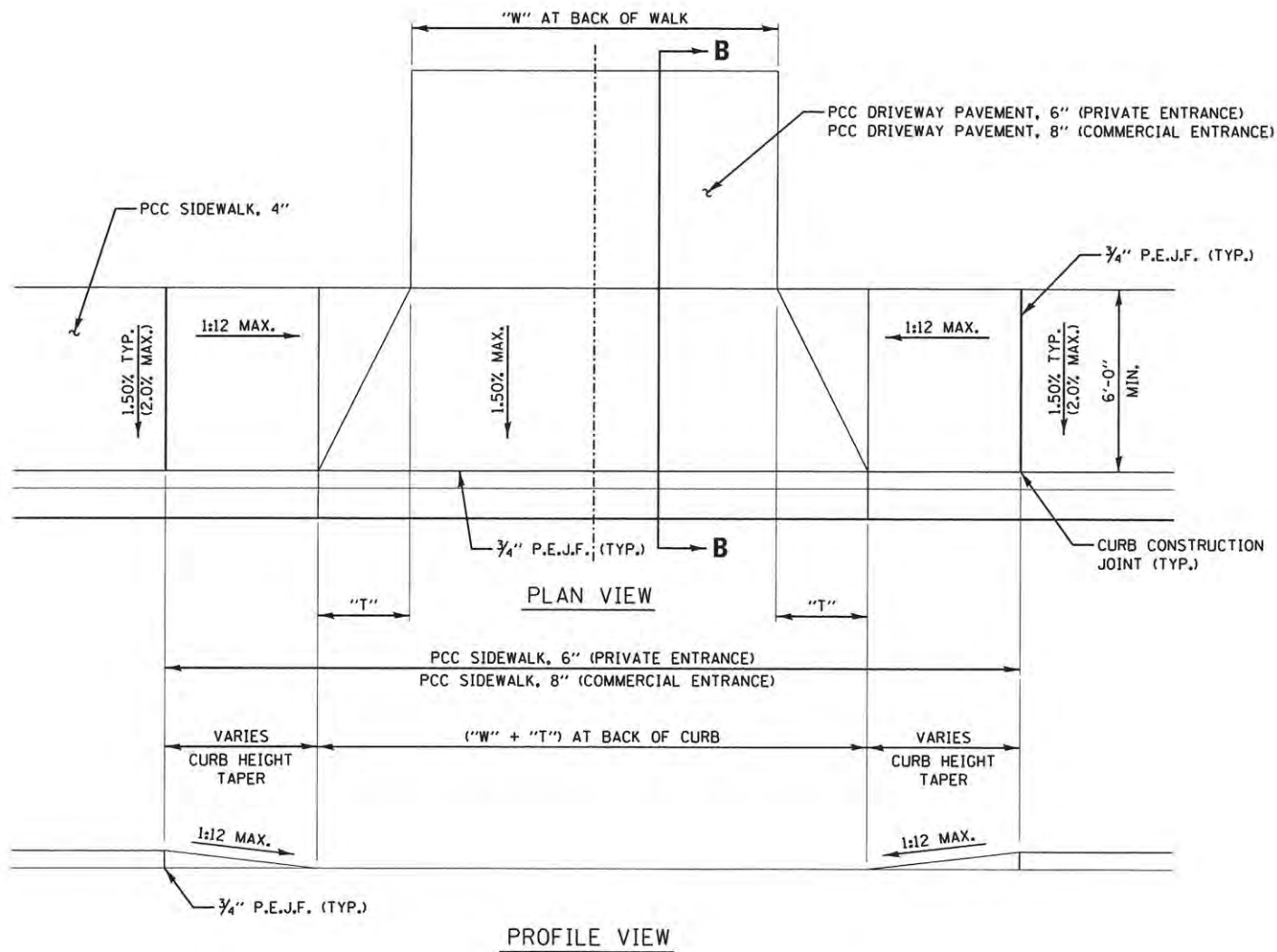
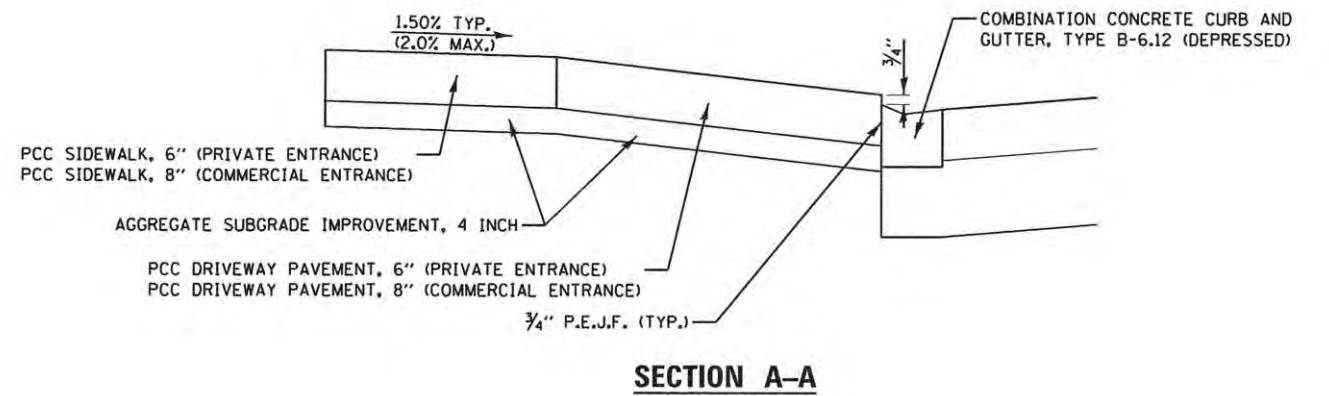
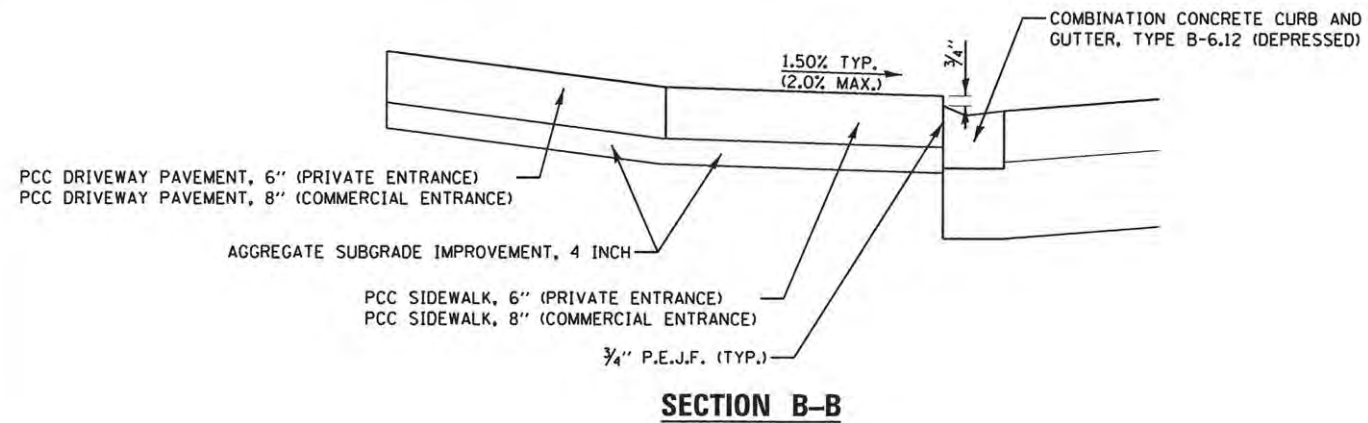


**MANHOLE, TYPE A**

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

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CHECKED - MPB  
DATE - 9/9/2015  
REVISOR -  
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REVISOR -  
REVISION -  
PLOT SCALE = 5.0000 ' / 1 in.  
PLOT DATE = 11/13/2015

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	176
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



**ENTRANCE WITH CURBLINE SIDEWALK**

**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**

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

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

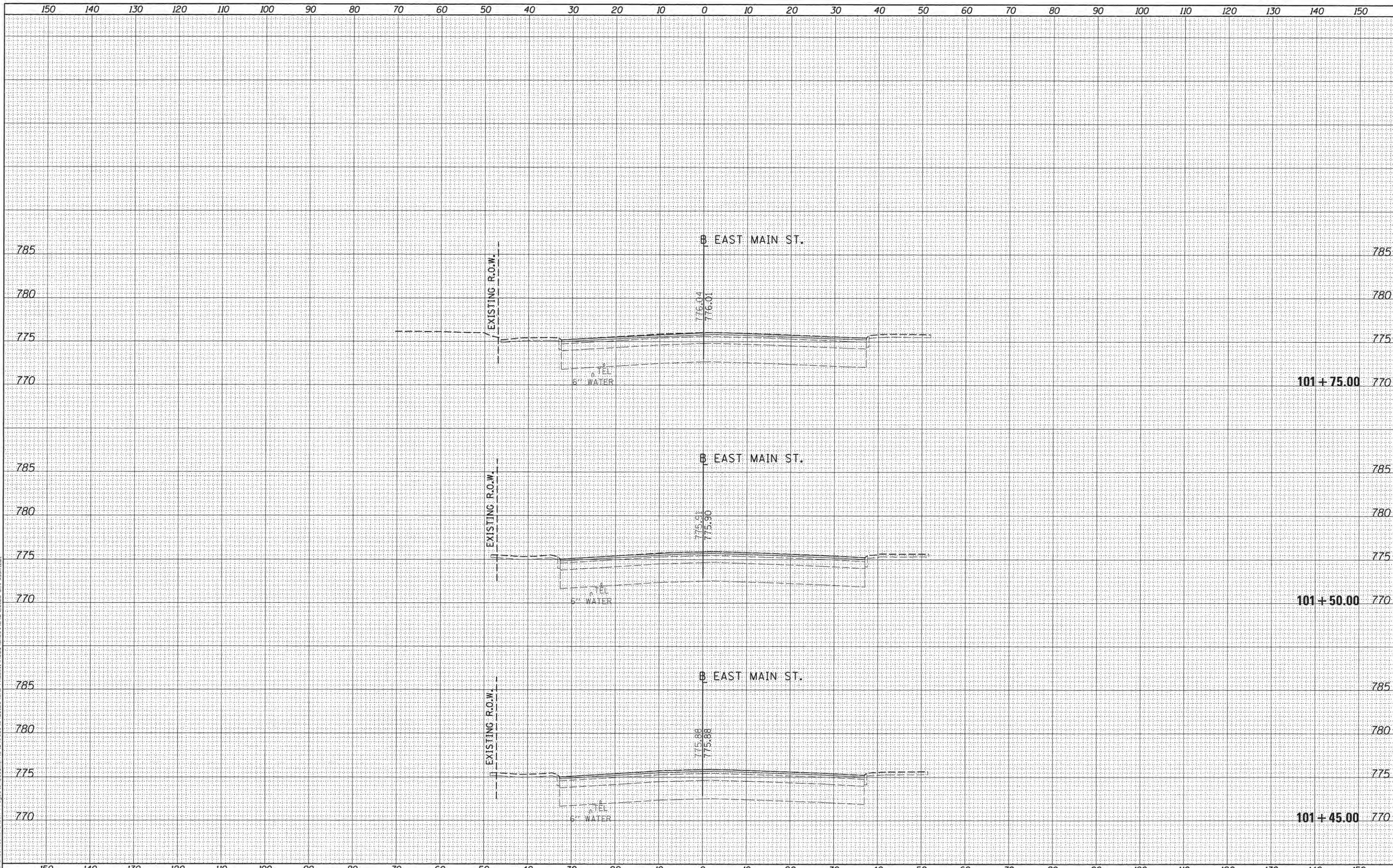
<b>EAST MAIN STREET          DRIVEWAY TYPICAL DETAIL</b>			
SCALE: N/A	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	177
50VB		CONTRACT NO.89417		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
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NO.	



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ORIGINAL SURVEY	
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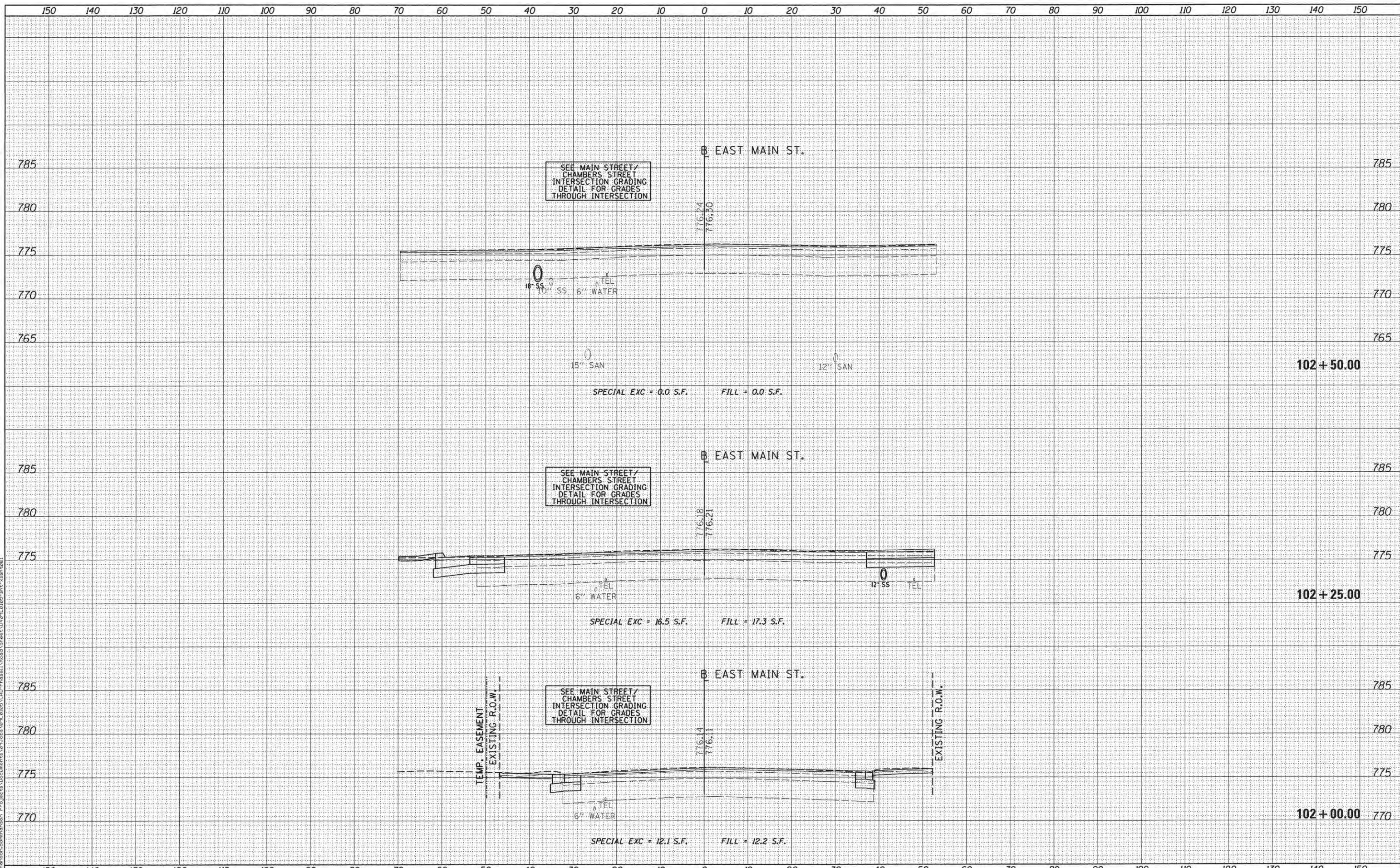


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	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: 1"=10'	SHEET	OF	SHEETS	STA. 101+45.00	TO STA. 101+75.00			

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BY	
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BY	
ORIGINAL SURVEY	
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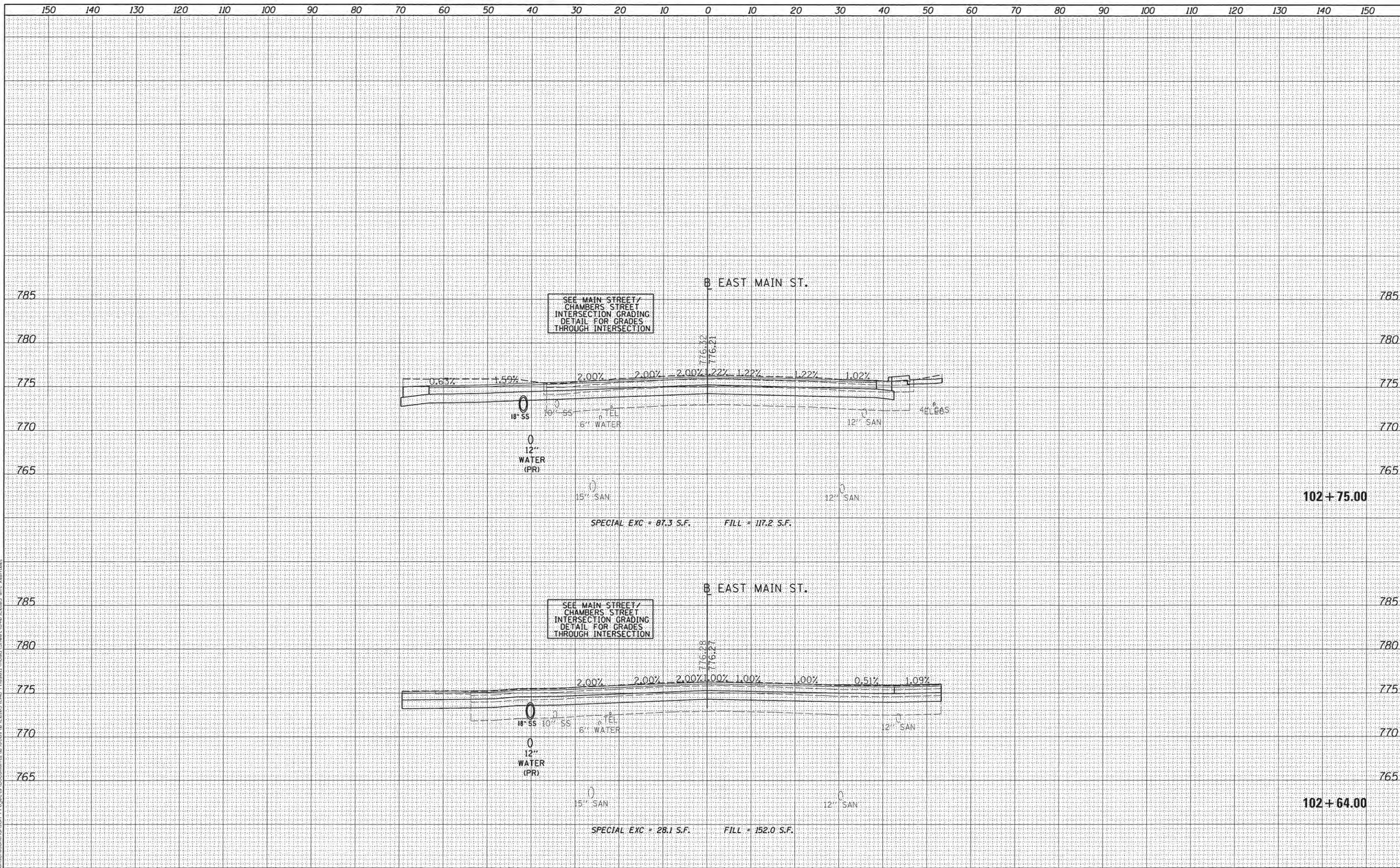
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	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -			SCALE: 1"=10'		SHEET OF SHEETS		STA. 102+00.00 TO STA.

ILLINOIS FED. AID PROJECT

DATE	
BY	
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FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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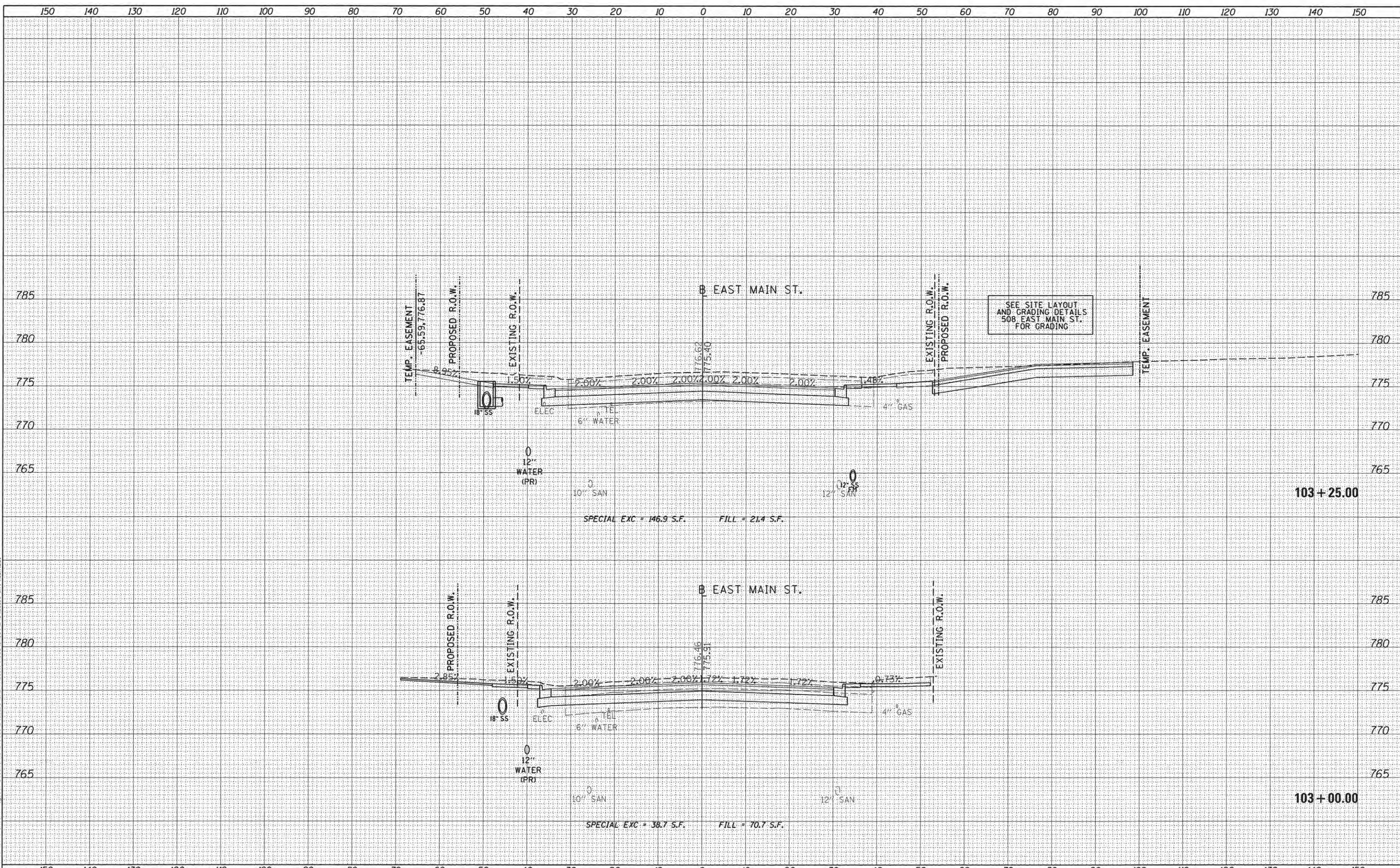
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FINAL SURVEY	
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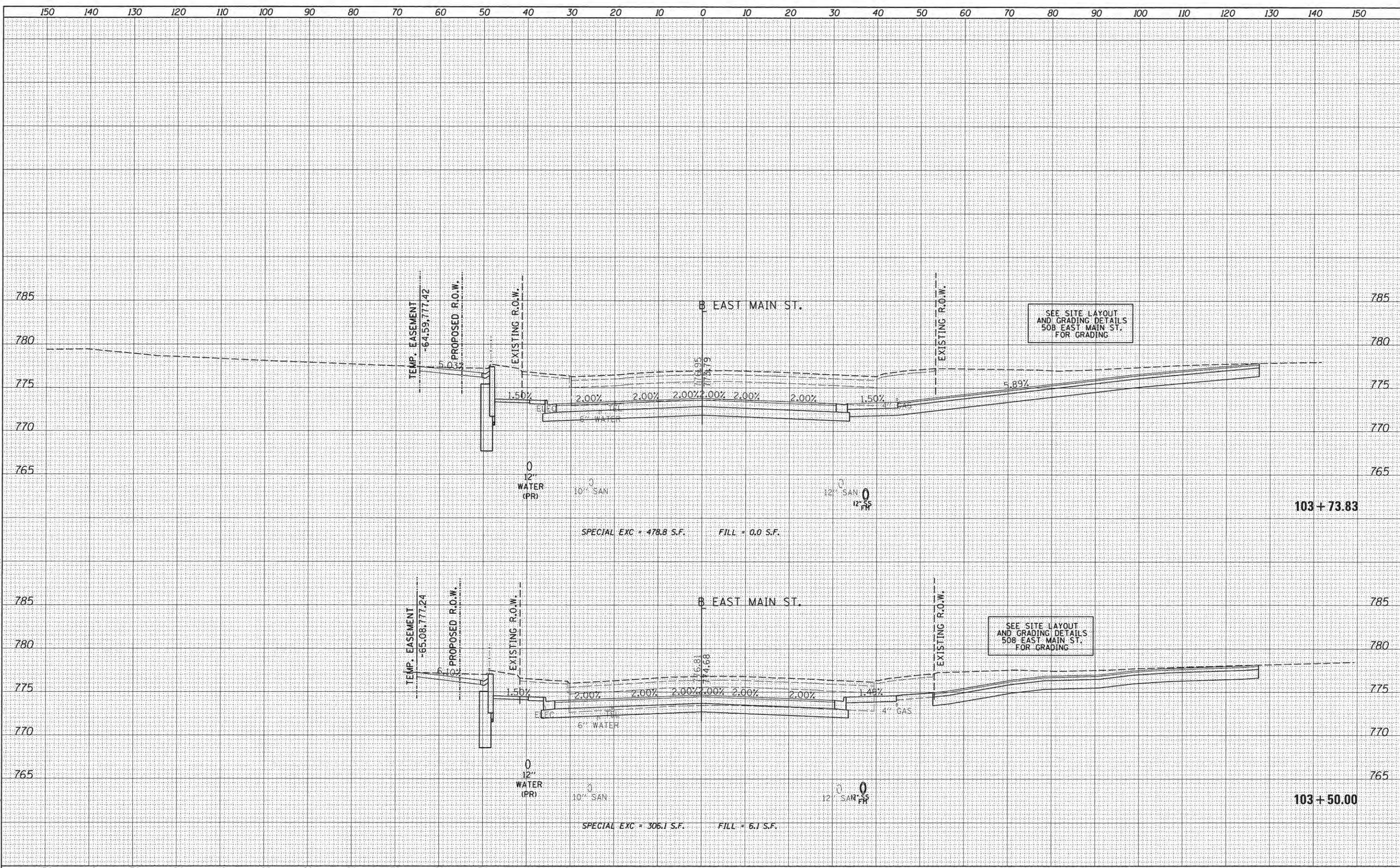


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DATE	
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SURVEYED	
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NOTE BOOK	
AREAS CHECKED	



DATE	
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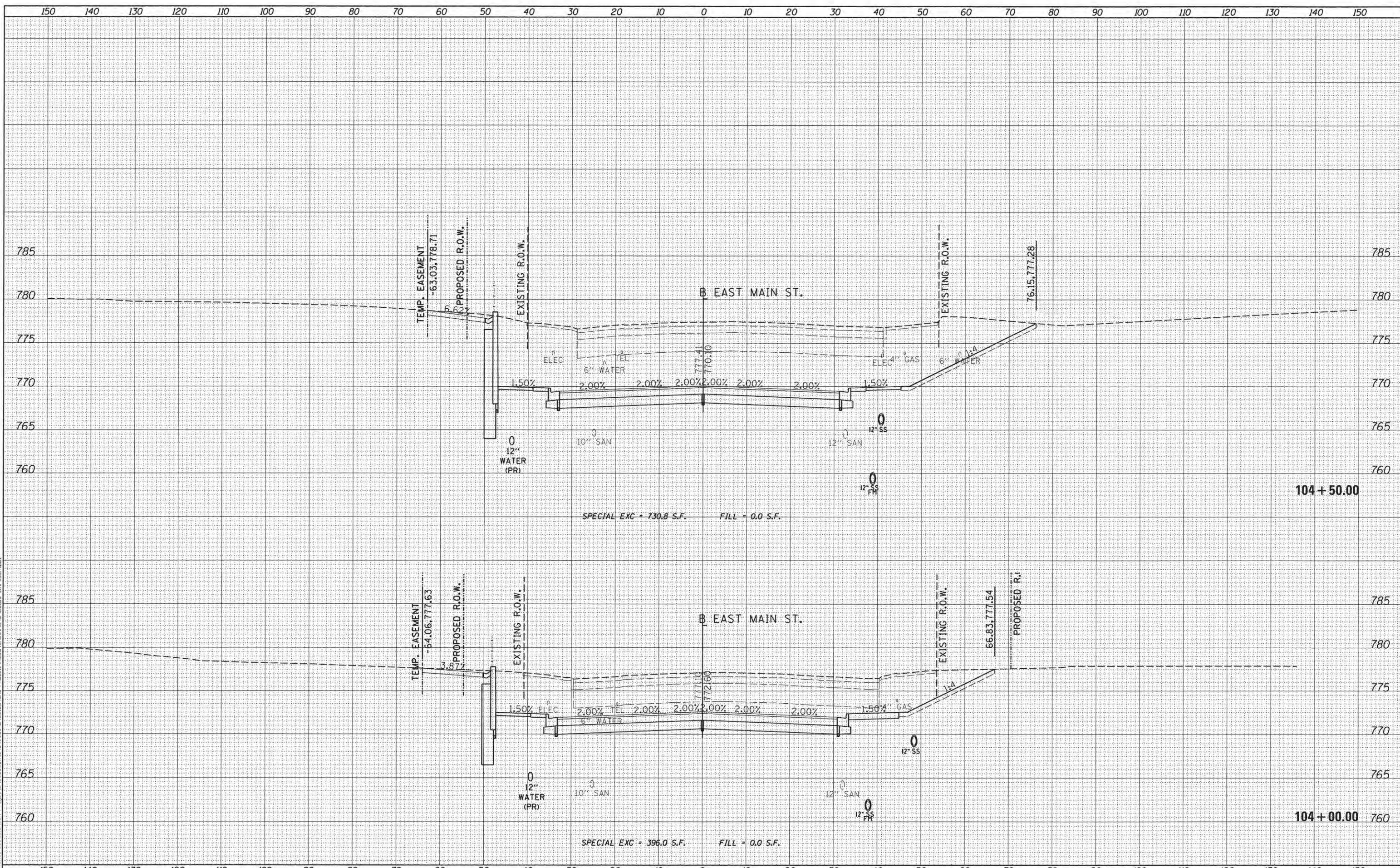


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					SCALE: 1"=10'	SHEET	OF	SHEETS	STA.	TO	STA.
ILLINOIS FED. AID PROJECT											

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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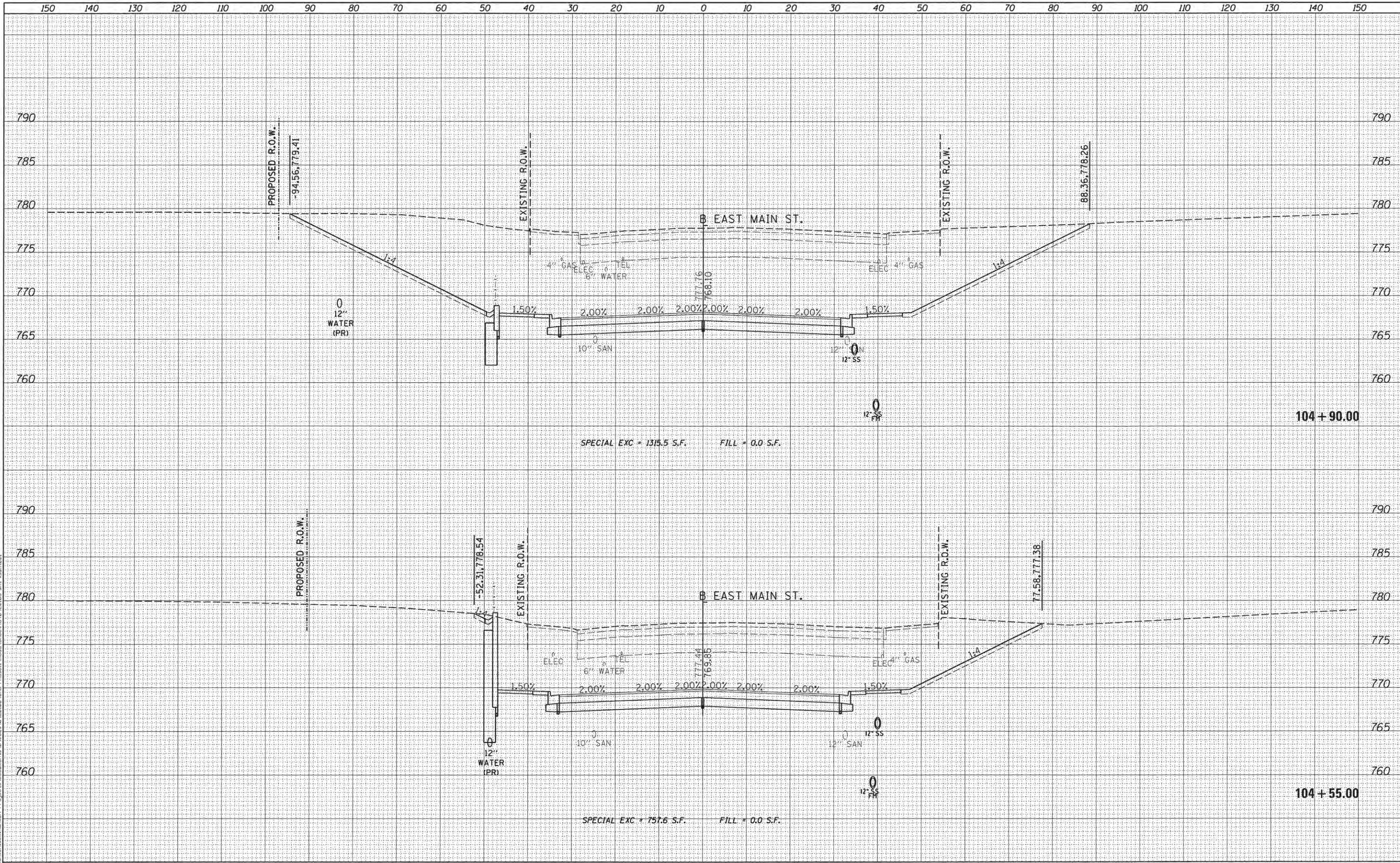
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	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 1"=10' SHEET OF SHEETS STA. 104+00.00 TO STA.

BY	DATE
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

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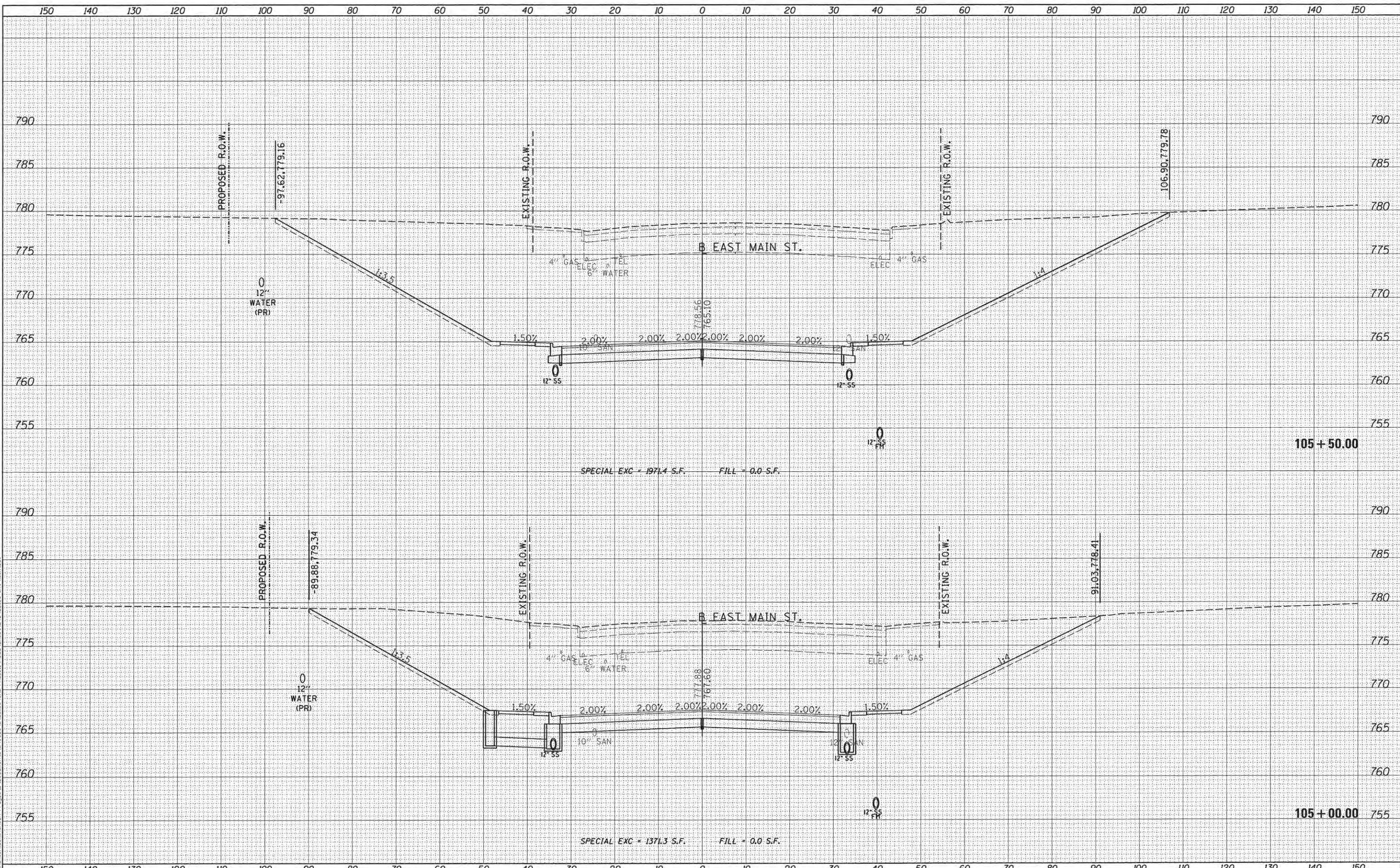


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	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -									

DATE	
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SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME =  
 USER NAME = andr-00846  
 DESIGNED - RLA  
 DRAWN - MGD  
 CHECKED - MPB  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

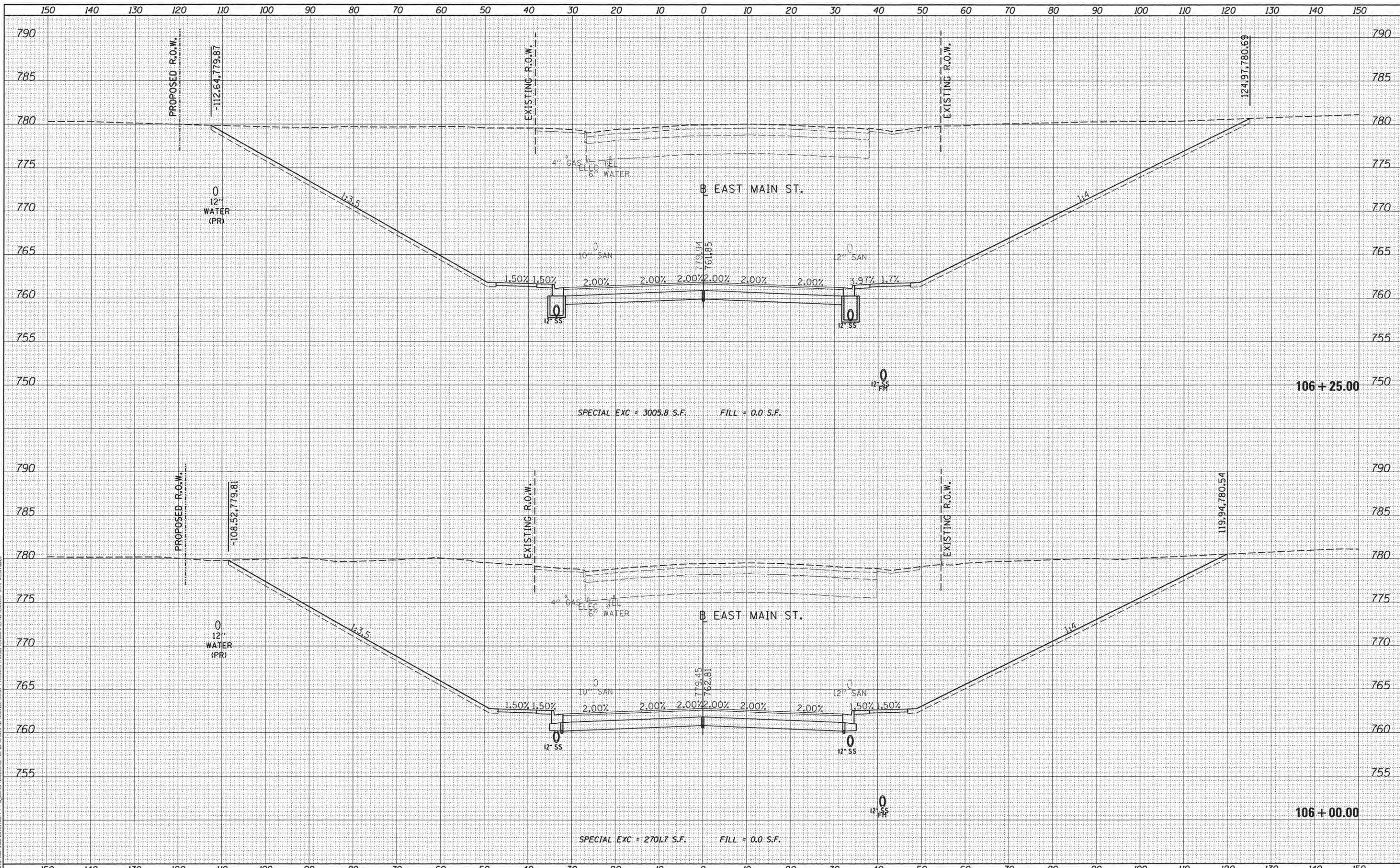
**EAST MAIN STREET  
 CROSS SECTIONS**  
 SCALE: 1"=10'  
 SHEET OF SHEETS STA. 105+00.00 TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	185
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET  
CROSS SECTIONS**

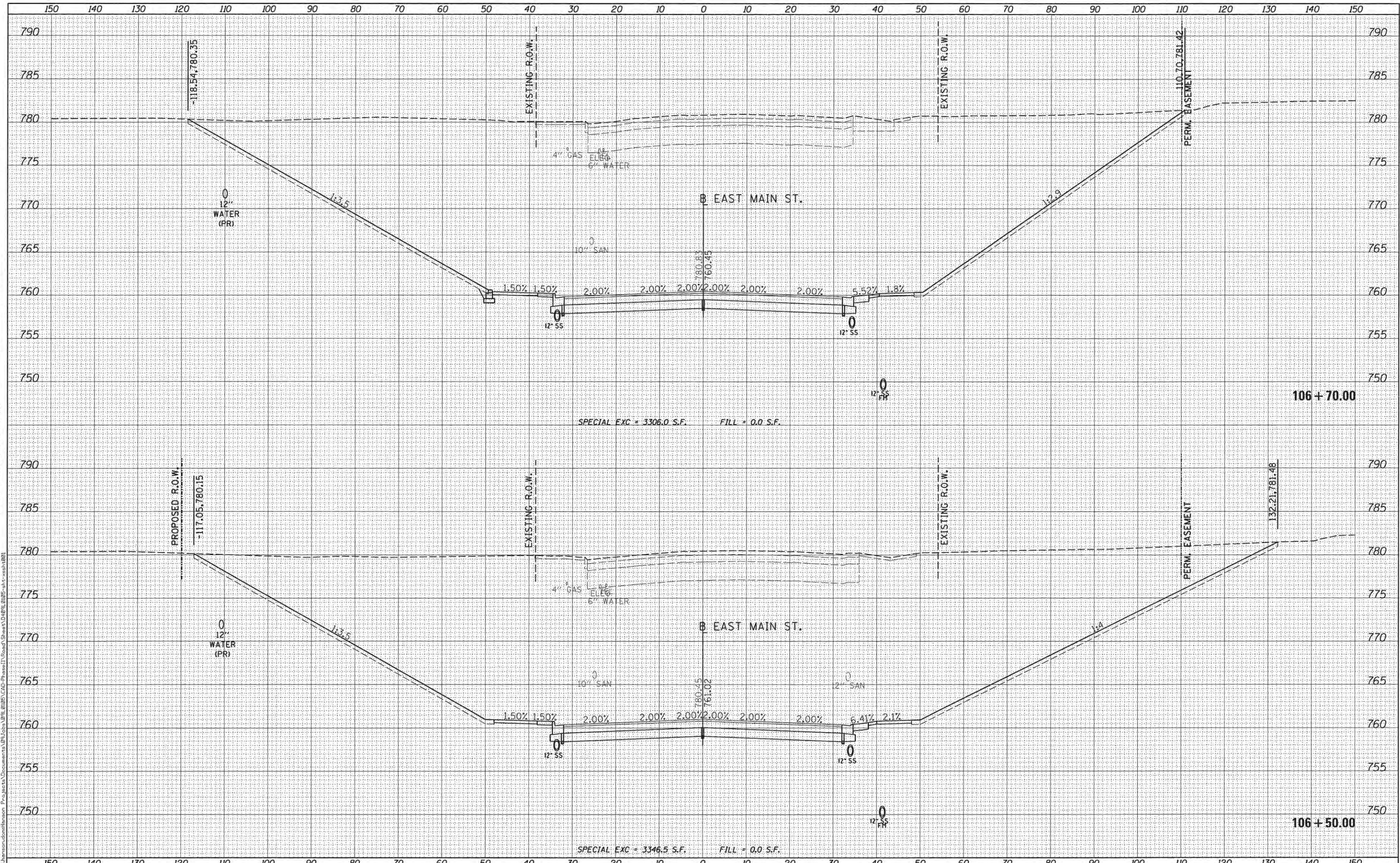
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

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



DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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 PLOT DATE = 11/13/2015

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

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

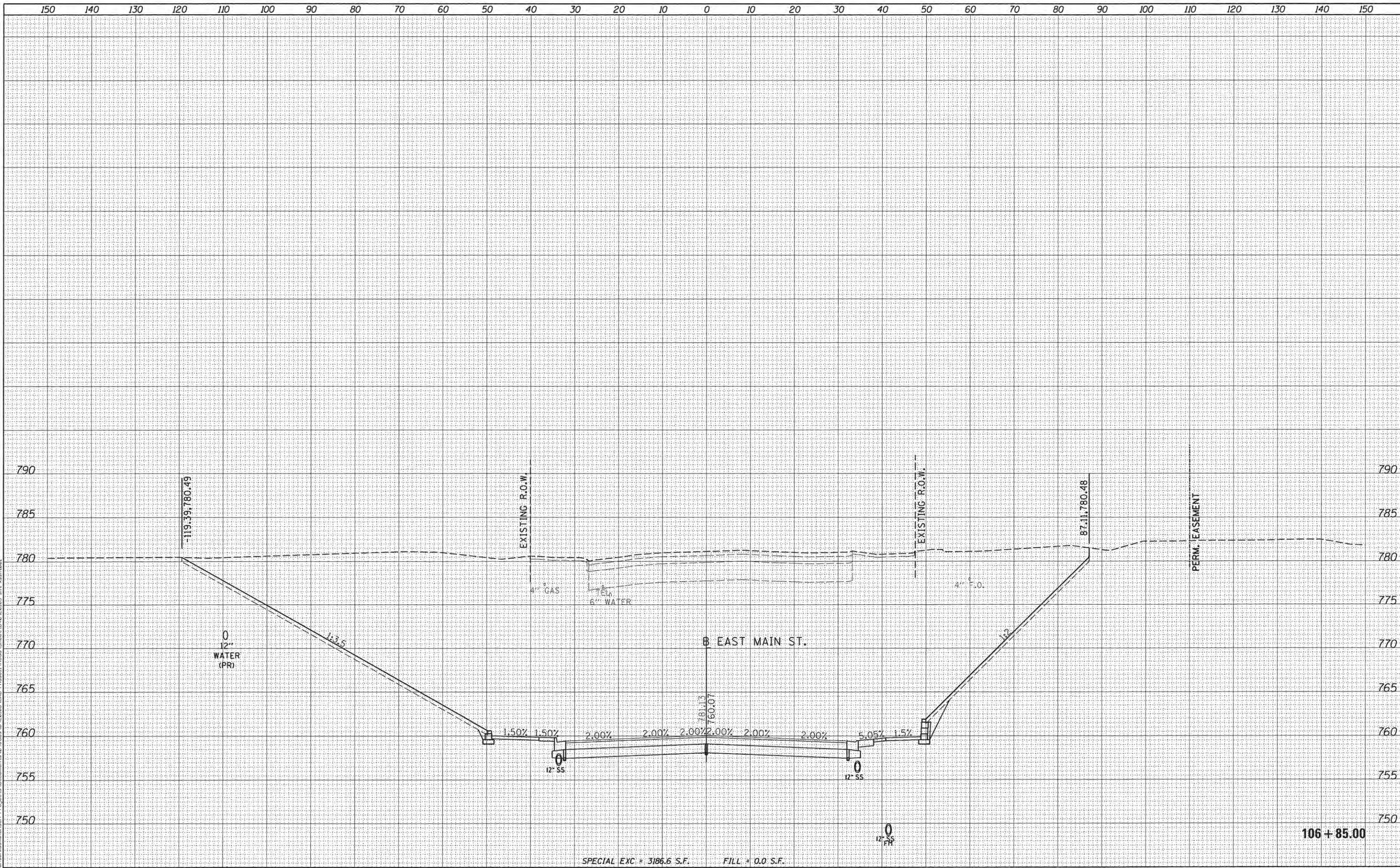
**EAST MAIN STREET  
 CROSS SECTIONS**  
 SCALE: 1"=10'  
 SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	187
	50VB		CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				

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



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



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Default	Default

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. 106+85.00    TO    STA. 106+85.00

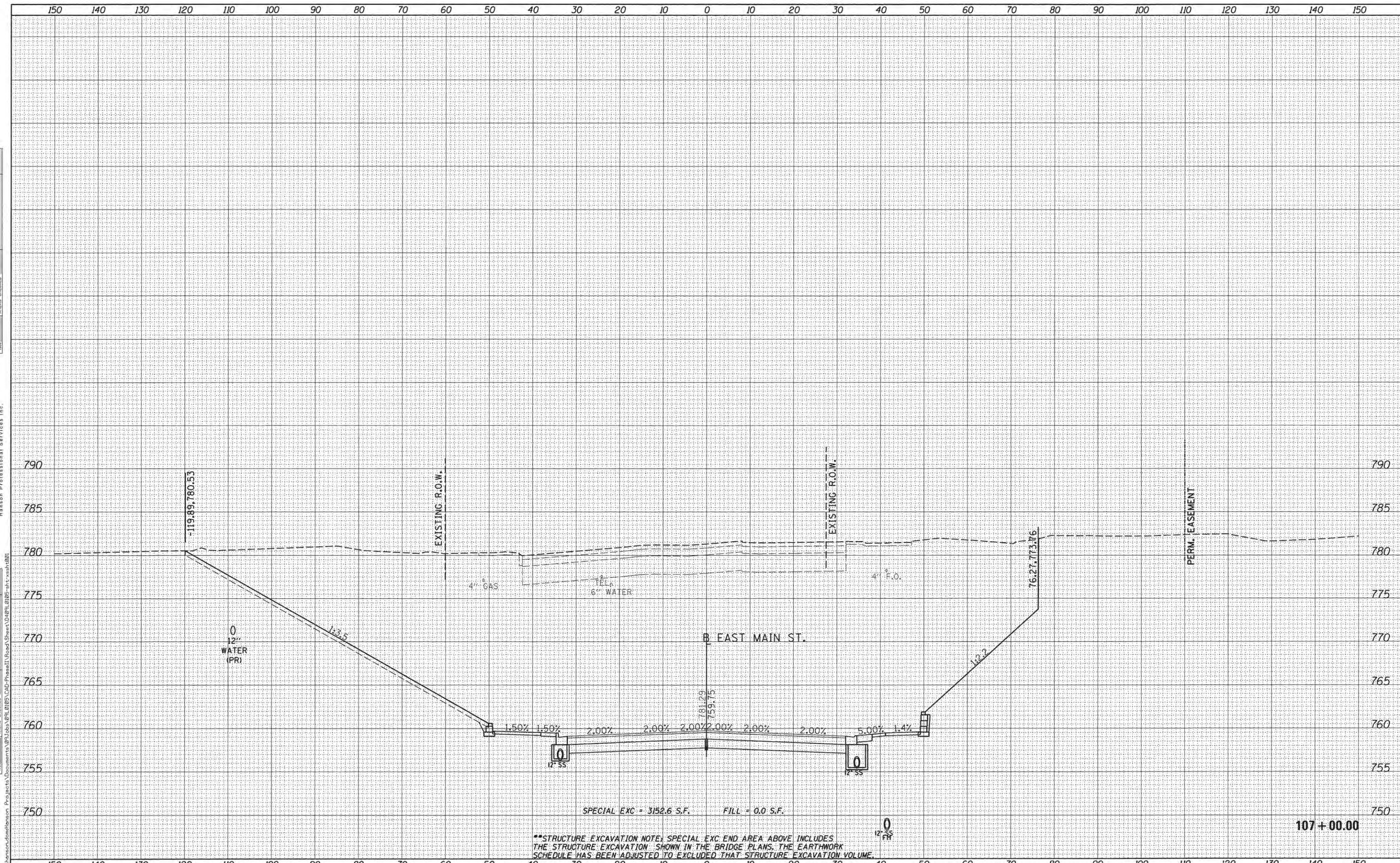
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	188
	50VB			CONTRACT NO.89417
ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

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DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



\*\*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 DATE = 11/13/2015

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

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

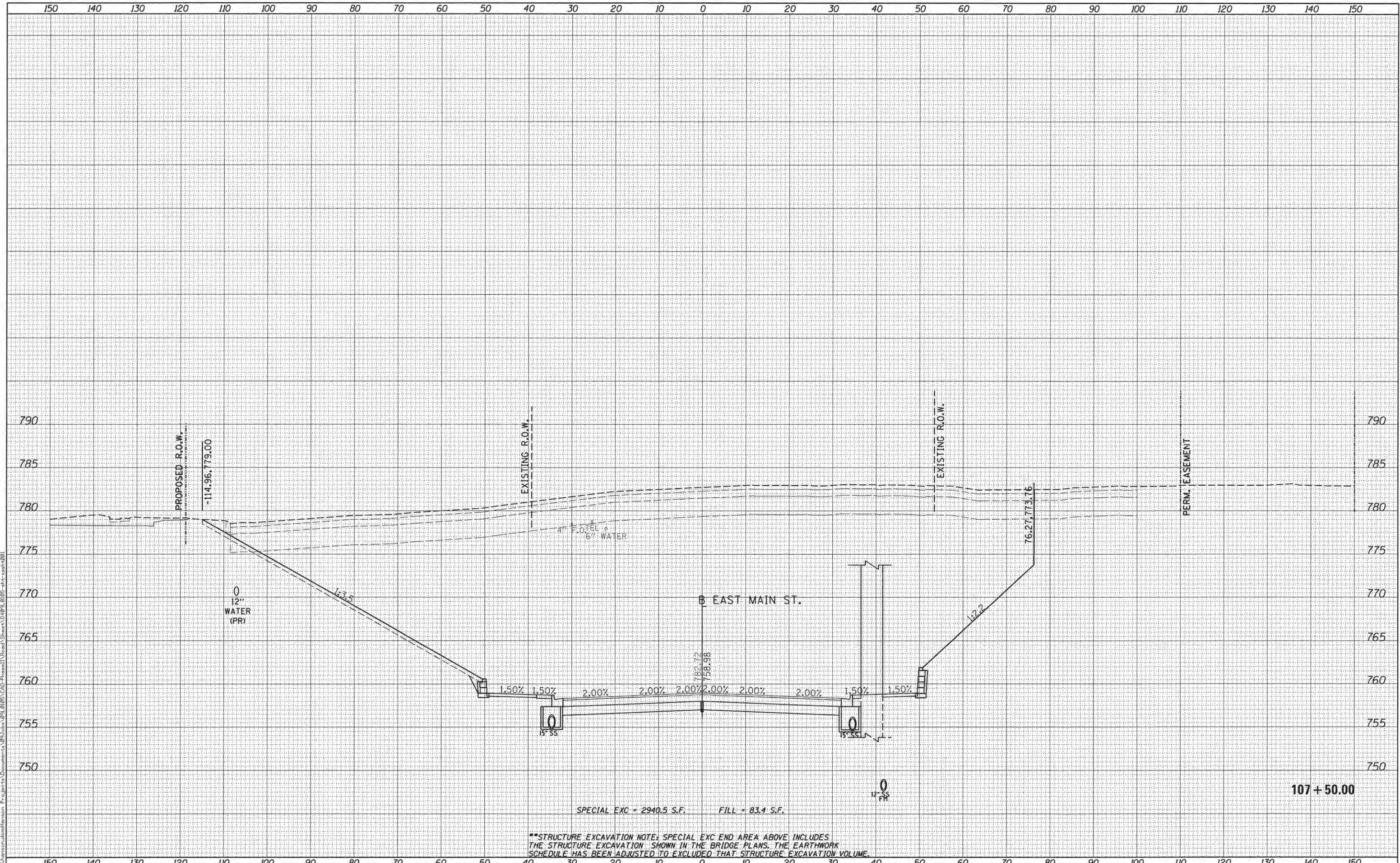
**EAST MAIN STREET  
 CROSS SECTIONS**  
 SCALE: 1"=10'  
 SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	189
	50VB		CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
SCALE	
AREAS CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
SCALE	
AREAS CHECKED	
NO.	



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PLOT DATE = 11/13/2015	DATE - 9/9/2015

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

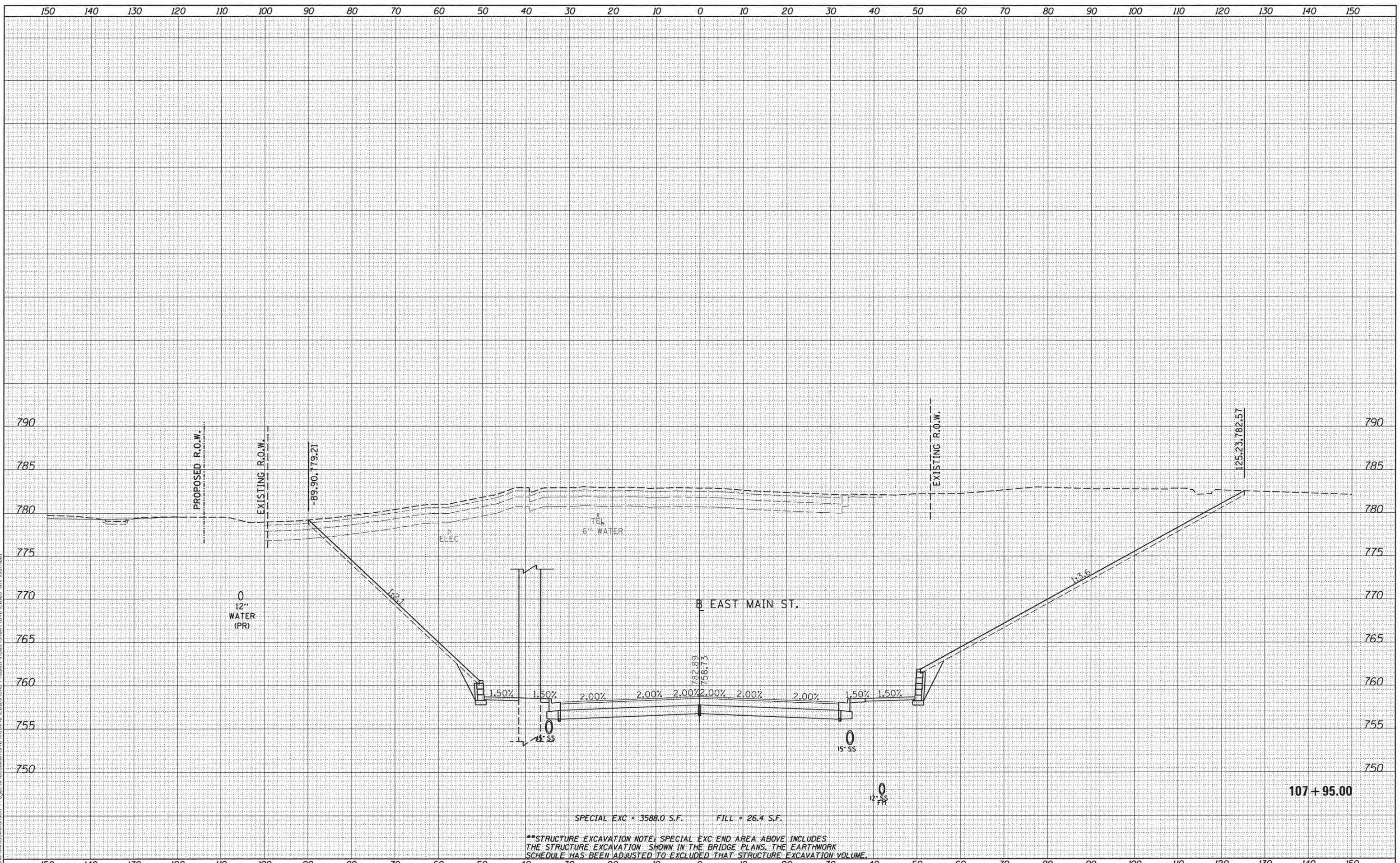
**EAST MAIN STREET  
CROSS SECTIONS**

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	216	190
	50VB			CONTRACT NO.89417
ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO.	
FINN	
SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL	
SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



SPECIAL EXC = 3588.0 S.F. FILL = 26.4 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
c:\pwise_work\do_not_delete\273754\040\0105	shh-xssh001.dgn
Default	PLOT DATE = 11/13/2015

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

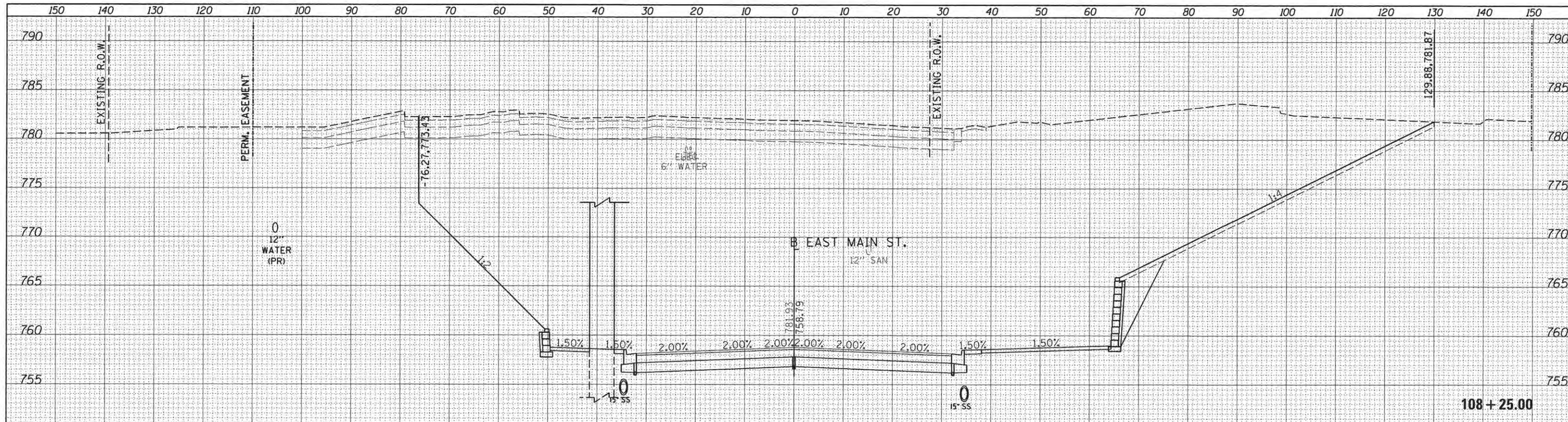
STATE OF ILLINOIS	EAST MAIN STREET
DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS
SCALE: 1"=10'	SHEET OF SHEETS
STA. 107+95.00 TO STA. 107+95.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	191
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

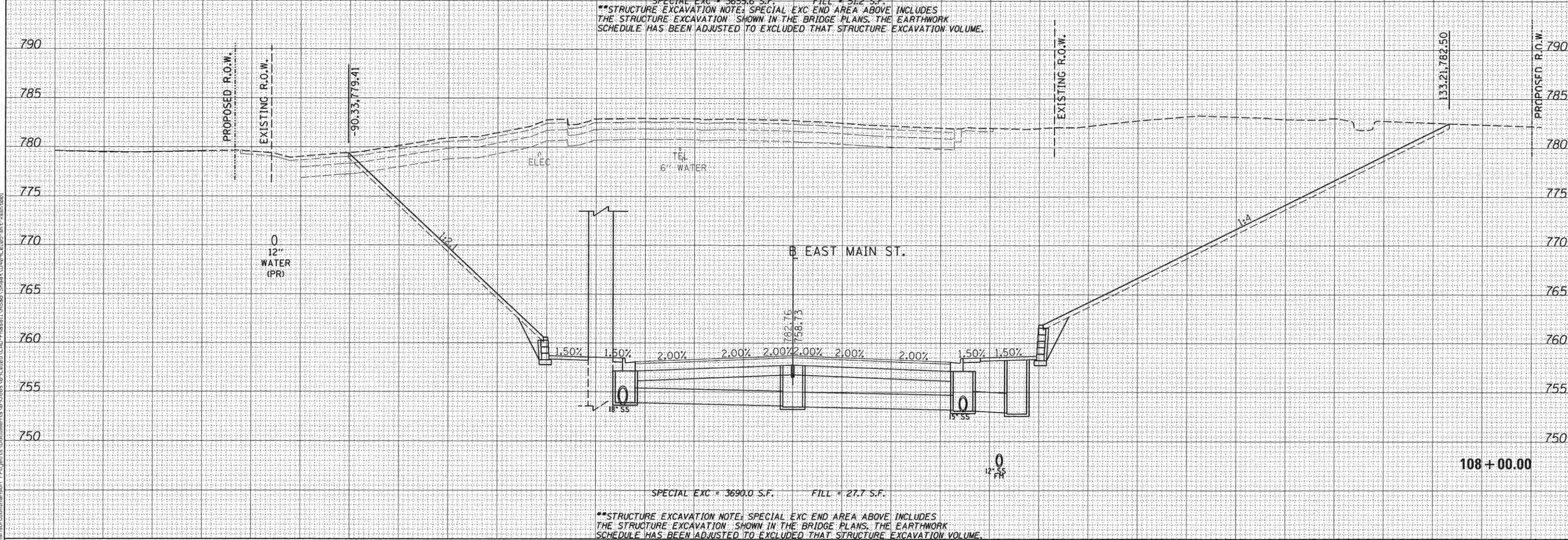
DATE	
BY	
FILED	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
FILED	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



SPECIAL EXC = 3655.6 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 = 3690.0 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	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>EAST MAIN STREET</b> <b>CROSS SECTIONS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwise_work\do_not_delete\0273754\10409L0105	sht-xsst001.dgn	DRAWN - MGD	REVISED -			6800	05-00500-19-GS	KNOX	216	192
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	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -			ILLINOIS FED. AID PROJECT				

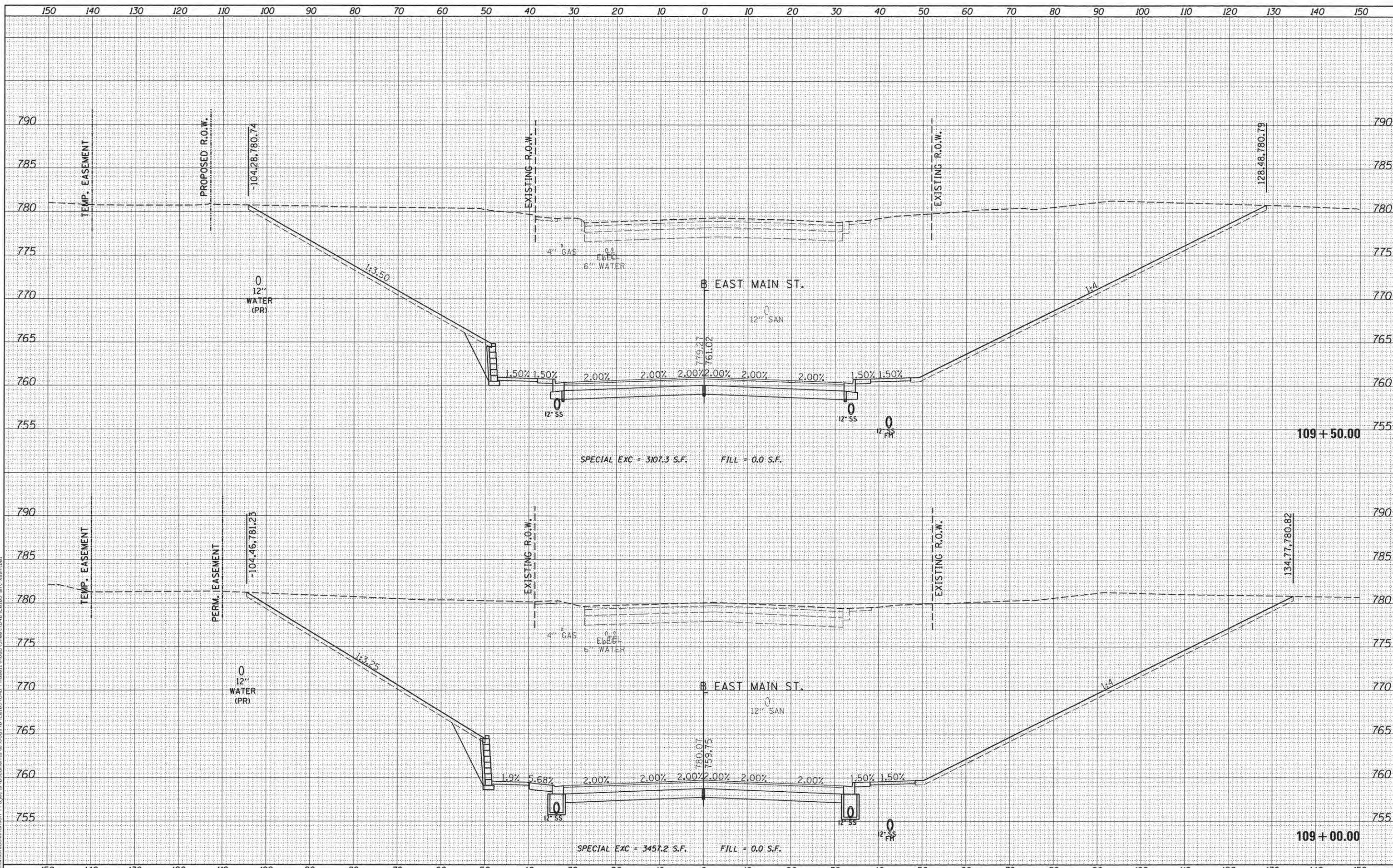
SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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

REVISIED -  
 REVISIED -  
 REVISIED -  
 REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET  
 CROSS SECTIONS**

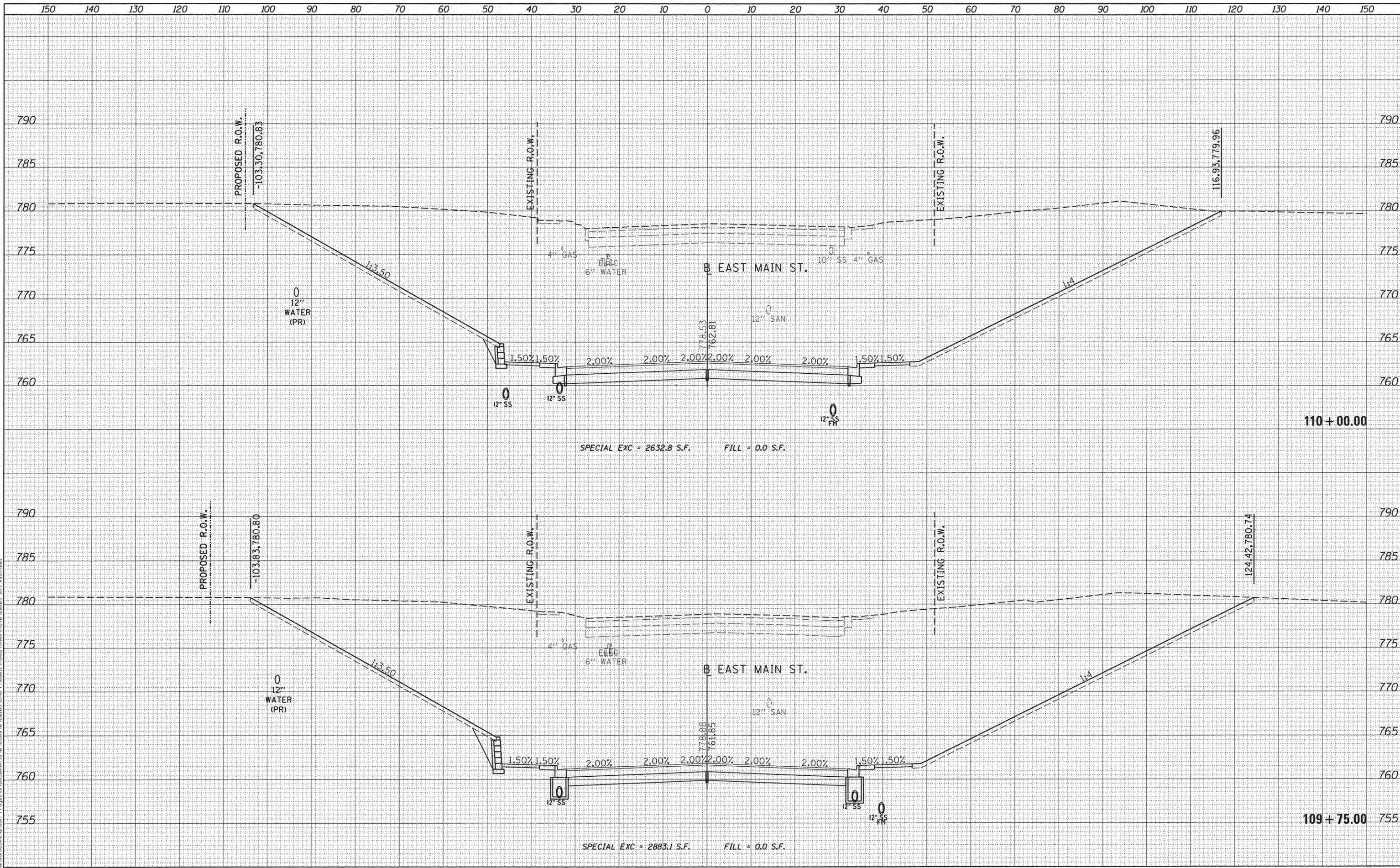
SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	194
	50VB		CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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 PLOT DATE = 11/13/2015

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

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

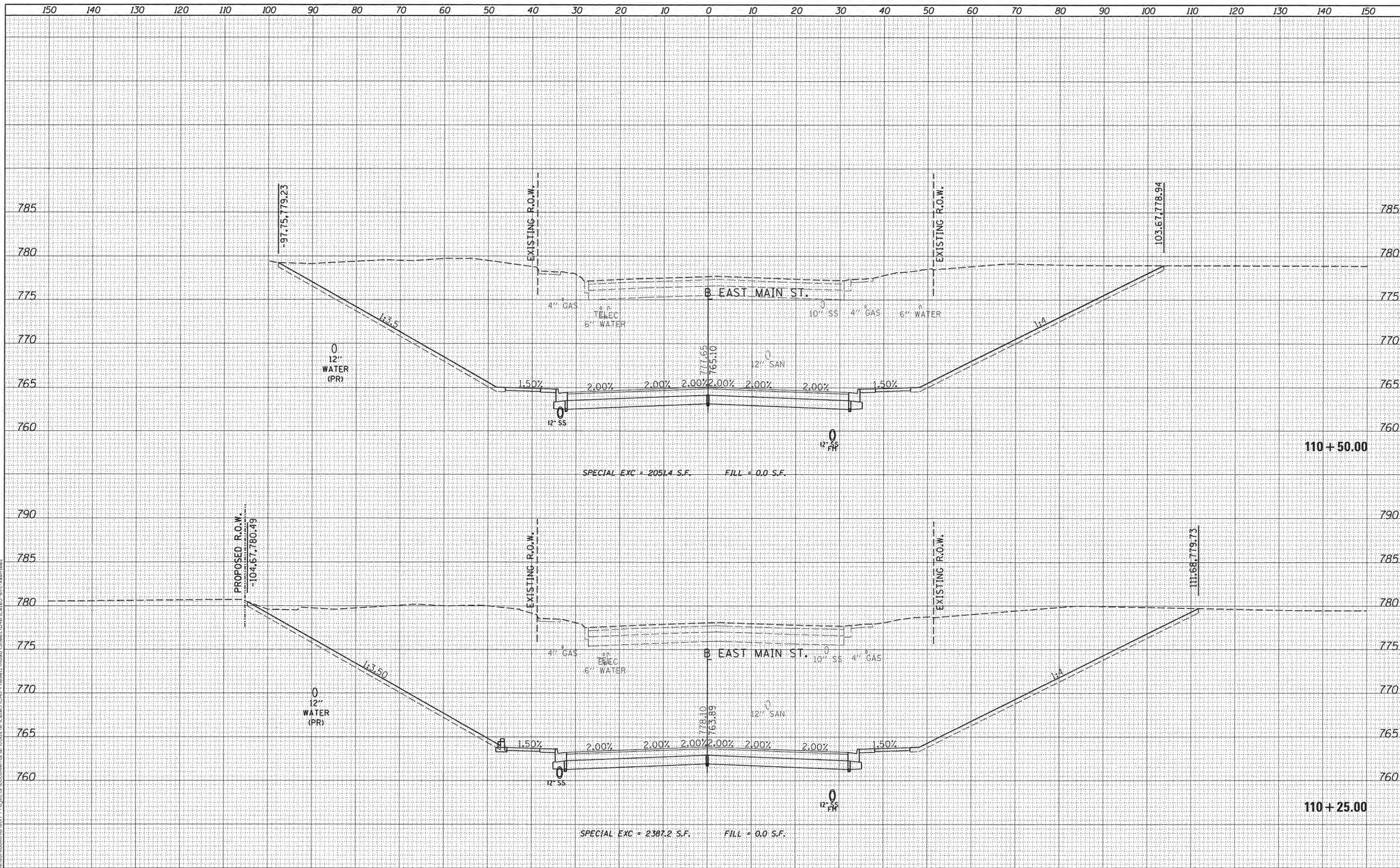
**EAST MAIN STREET  
 CROSS SECTIONS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	195
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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 PLOT DATE = 11/13/2015

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

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

**EAST MAIN STREET  
 CROSS SECTIONS**

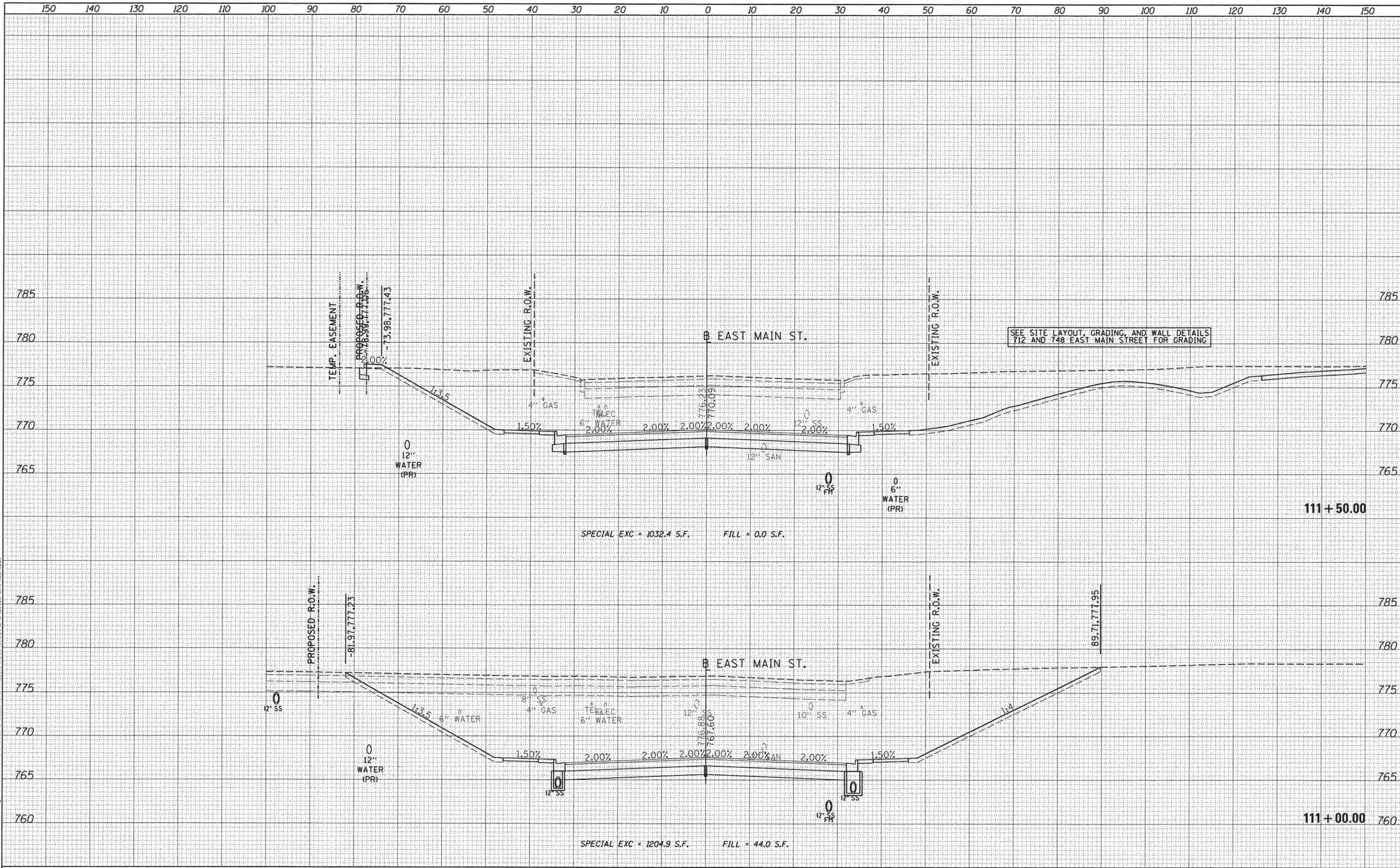
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	196
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME =  
 USER NAME = andr-00846  
 DESIGNED - RLA  
 DRAWN - MGD  
 CHECKED - MPB  
 DATE - 9/9/2015

REVISIONS  
 REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EAST MAIN STREET  
 CROSS SECTIONS

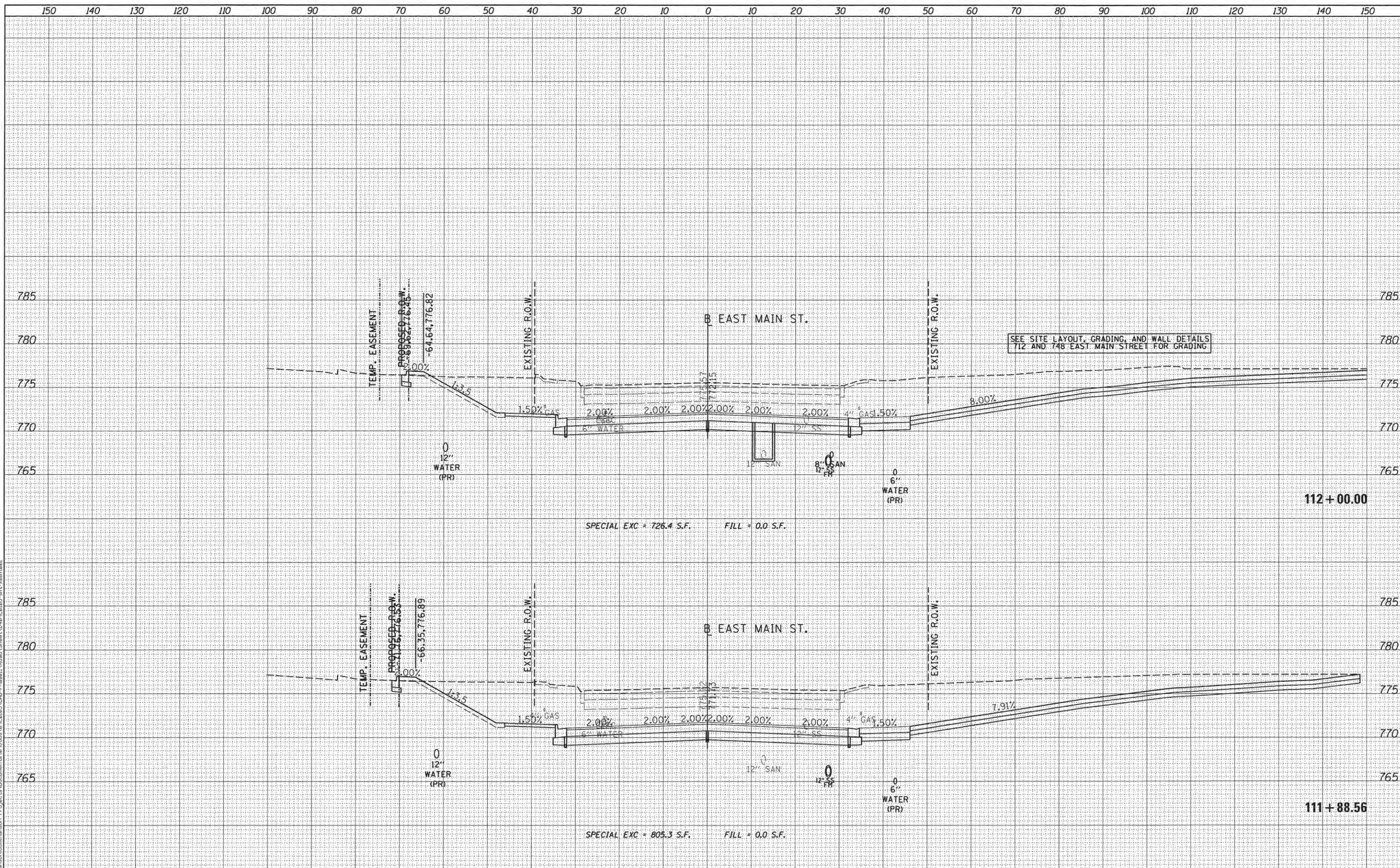
SCALE: 1"=10'  
 SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	197
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET**  
**CROSS SECTIONS**

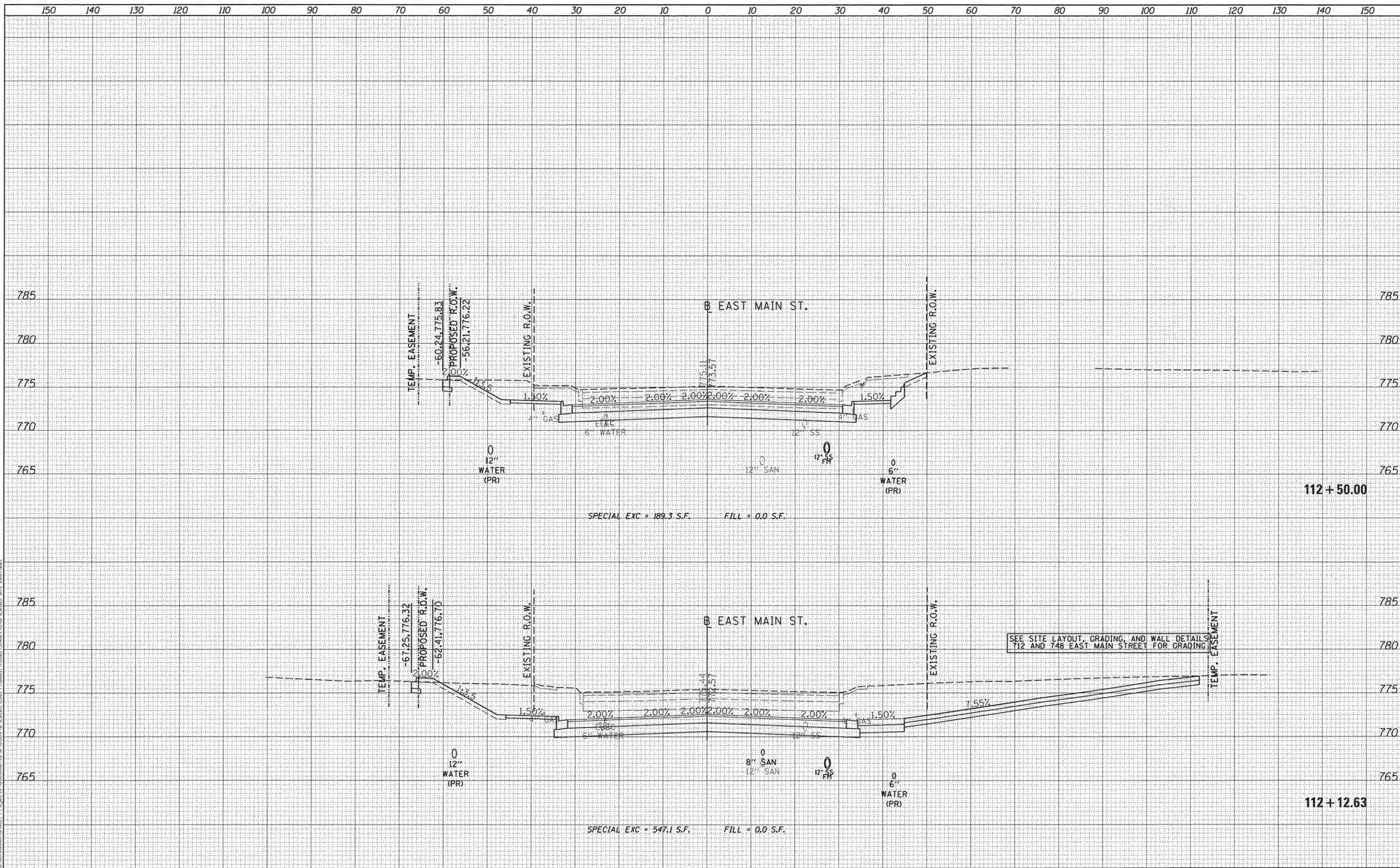
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	198
50VB			CONTRACT NO.89417	
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	



DATE	
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ORIGINAL SURVEY	
SURVEYED	
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NOTE BOOK	
AREAS CHECKED	



FILE NAME =  
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 DRAWN - MGD  
 CHECKED - MPB  
 DATE - 9/9/2015

REVISIONS  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST MAIN STREET  
 CROSS SECTIONS**

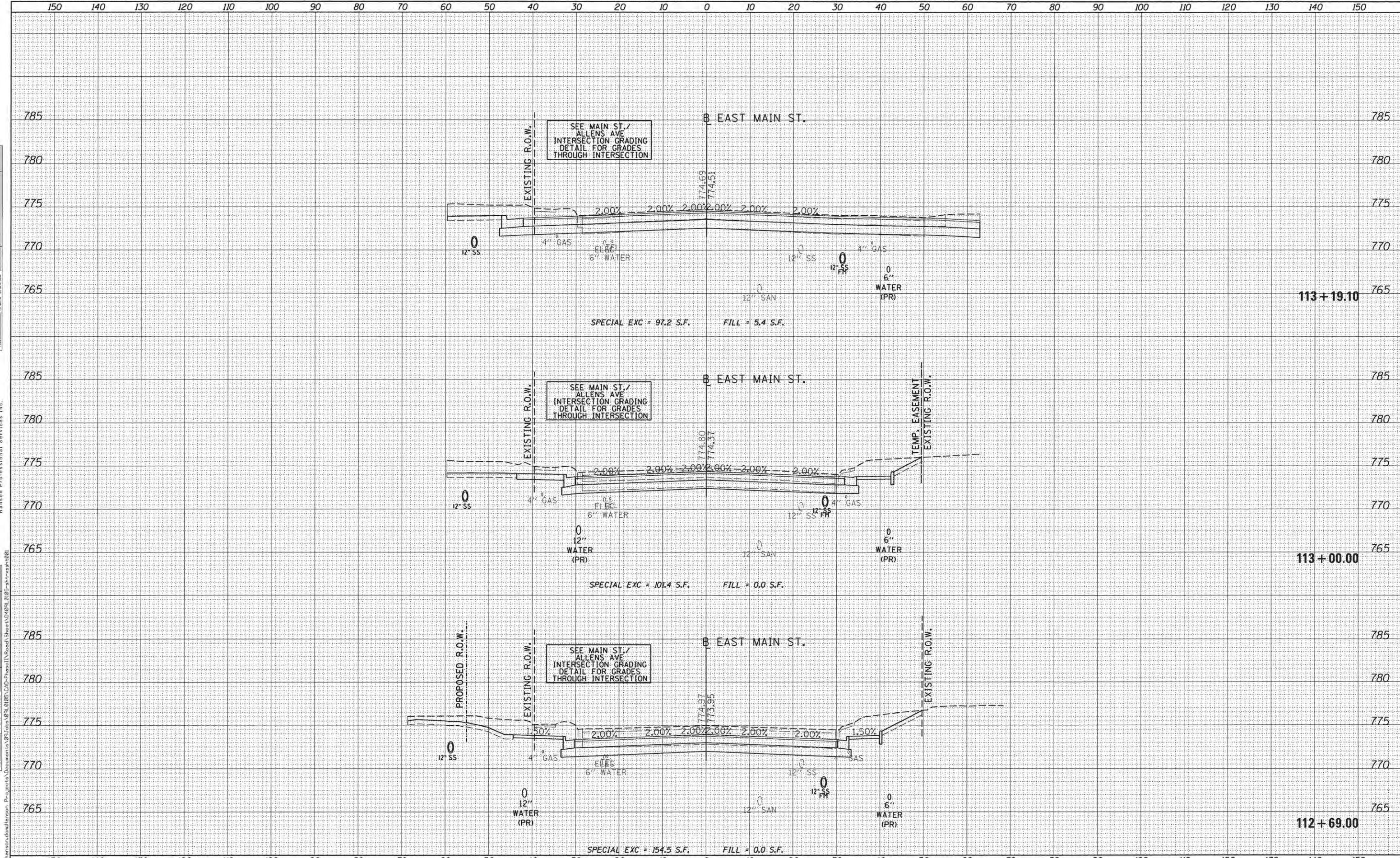
SCALE: 1"=10'  
 SHEET OF SHEETS STA. 112+12.63 TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6800	05-00500-19-GS	KNOX	216	199
50VB		CONTRACT NO.89417		
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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AREAS CHECKED	

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DATE	
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NO.	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME =	USER NAME = andr00846	DESIGNED - RLA	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>EAST MAIN STREET</b> <b>CROSS SECTIONS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE = 10.0000' / 1"	CHECKED - MPB	REVISED -			50VB	CONTRACT NO.89417		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 11/13/2015	DATE - 9/9/2015	REVISED -			SCALE: 1"=10'	SHEET	OF	SHEETS	STA.	TO STA.113+19.10