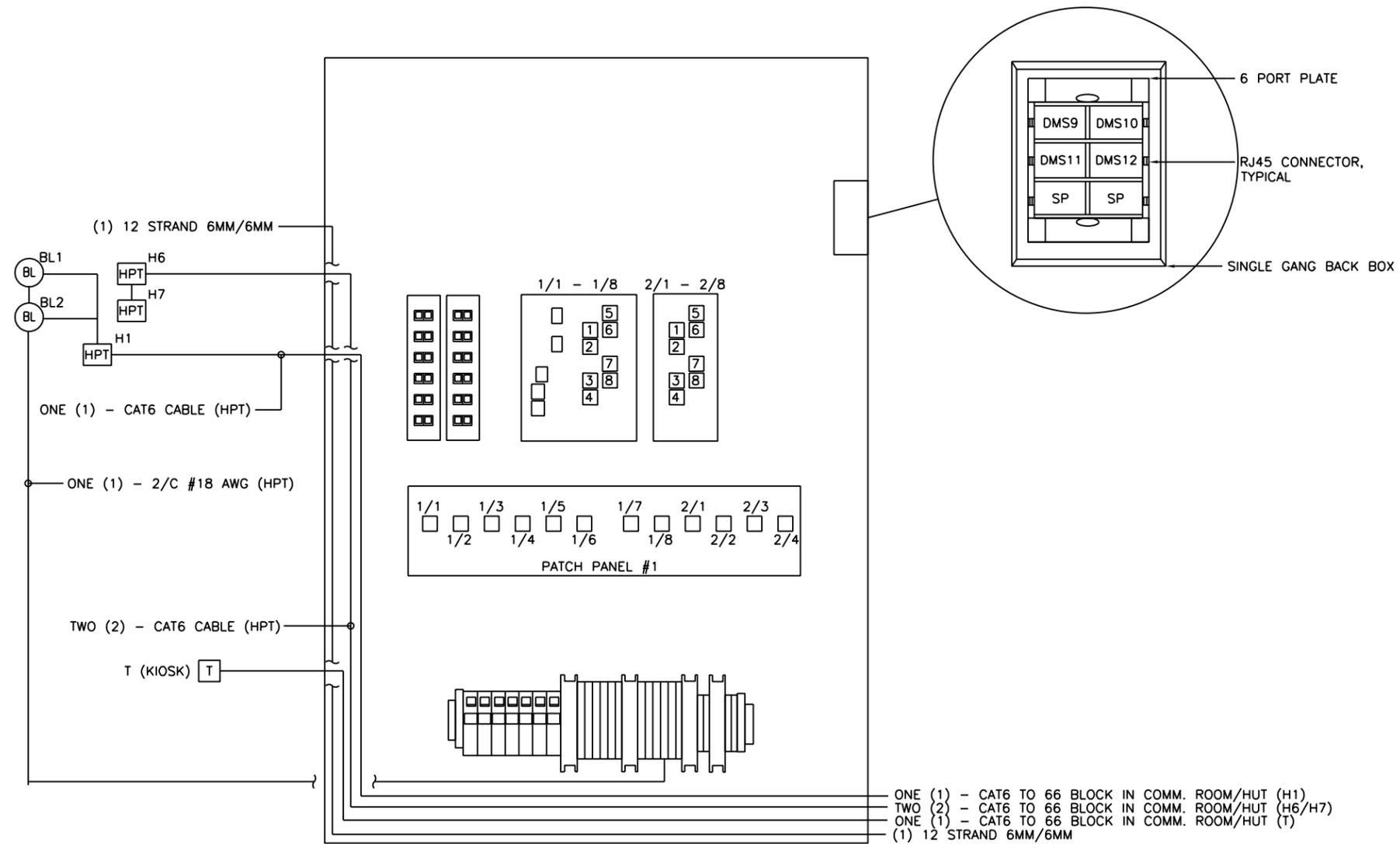


NOTES:

1. ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN.
2. REFER TO COMMUNICATION EQUIPMENT SCHEDULE FOR PORT ASSIGNMENTS.



- ONE (1) - CAT6 TO 66 BLOCK IN COMM. ROOM/HUT (H1)
- TWO (2) - CAT6 TO 66 BLOCK IN COMM. ROOM/HUT (H6/H7)
- ONE (1) - CAT6 TO 66 BLOCK IN COMM. ROOM/HUT (T)
- (1) 12 STRAND 6MM/6MM

1 HUB1 EXISTING HUB BOX DETAIL
HUB4-UIC-HALSTED PLATFORM INB TYPE 2

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DEPARTMENT OF TRANSPORTATION

PEORIA STREET STATION
COMMUNICATION EXISTING HUB DETAILS PART 1

SHEET NO. 110 OF 117 SHEETS

PRELIMINARY NOT FOR CONSTRUCTION

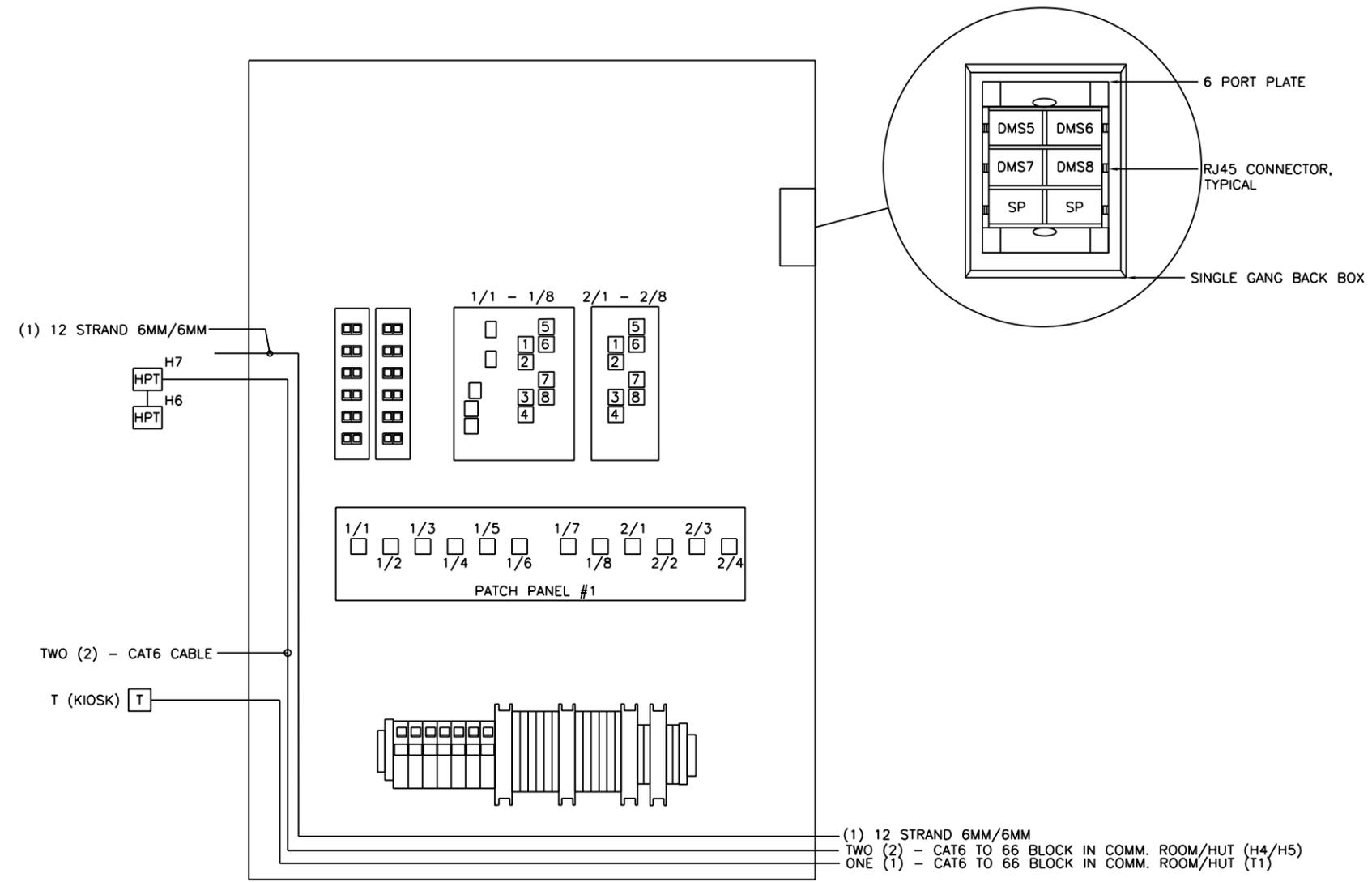
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	301
CONTRACT NO.			60W29	

ILLINOIS FED. AID PROJECT

9:09:51 PM 301-60W29.dgn

NOTES:

1. ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN.
2. REFER TO COMMUNICATION EQUIPMENT SCHEDULE FOR PORT ASSIGNMENTS.



1 HUB2 EXISTING HUB BOX DETAIL
HUB4-UIC-HALSTED PLATFORM OTB TYPE 2

(1) 12 STRAND 6MM/6MM
TWO (2) - CAT6 TO 66 BLOCK IN COMM. ROOM/HUT (H4/H5)
ONE (1) - CAT6 TO 66 BLOCK IN COMM. ROOM/HUT (T1)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEORIA STREET STATION
COMMUNICATION EXISTING HUB DETAILS PART 2**

SHEET NO. 111 OF 117 SHEETS

FOR INFORMATION ONLY

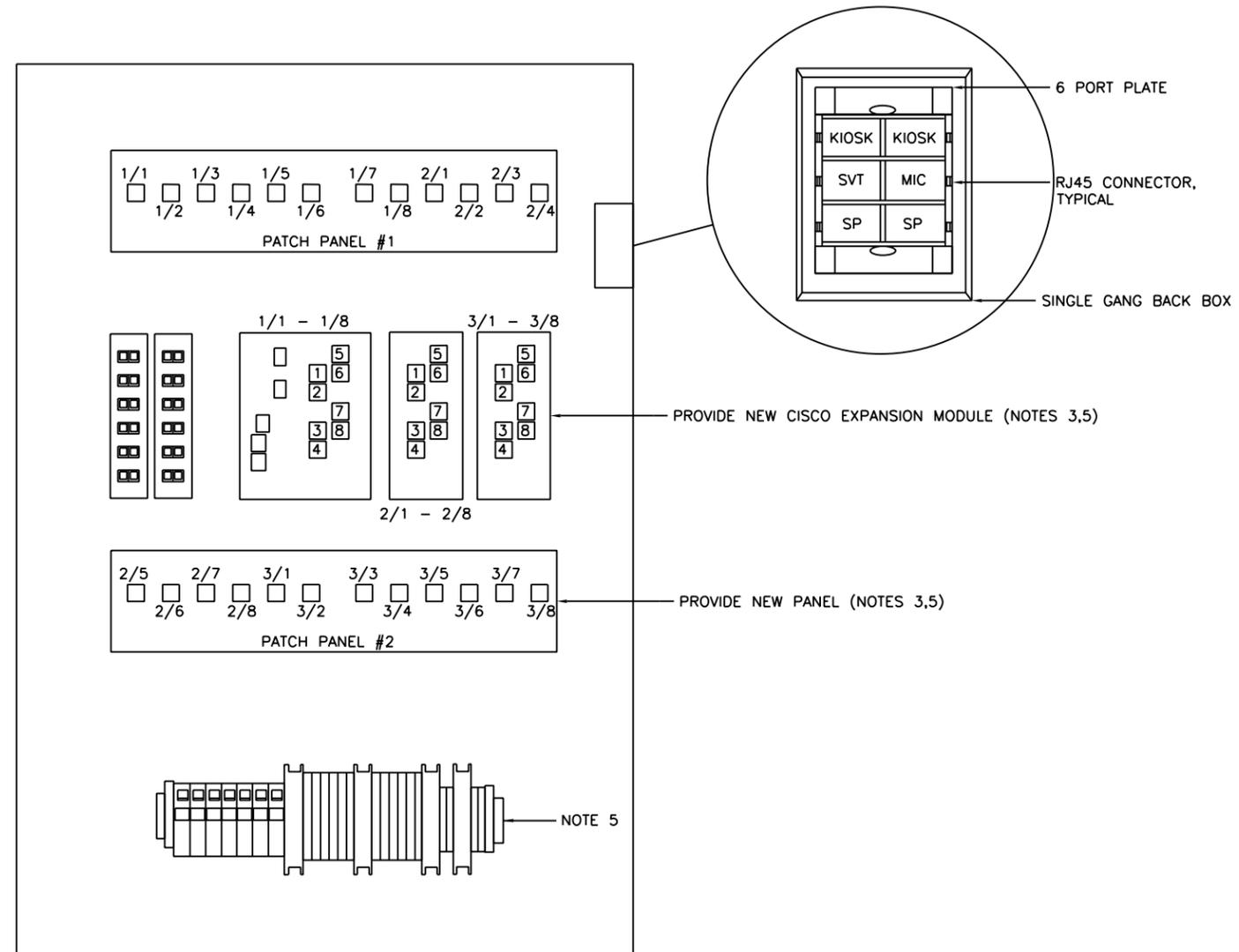
PRELIMINARY NOT FOR CONSTRUCTION

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	302
CONTRACT NO.			60W29	
ILLINOIS FED. AID PROJECT				

14:21:13 PM 302-60W29.dgn

NOTES:

1. EXISTING DEVICES ARE IN LIGHT AND NEW OR RELOCATED DEVICES ARE BOLD.
2. REFER TO COMMUNICATION EQUIPMENT SCHEDULE FOR PORT ASSIGNMENTS.
3. REFER TO SHEET 304 STANDARD COMMUNICATION HUB FOR EQUIPMENT REQUIREMENTS.
4. PROVIDE TEMPORARY HUB PANEL AS NEEDED. MOUNT TEMP PANEL AT PLATFORM LEVEL NEXT TO WEST HUB PANEL.
5. PROVIDE NEW HUB 4 PANEL AND LOCATED IN NEW COMMUNICATIONS ROOM. PROVIDED ADDITIONAL DEVICES AS SHOWN.



1 HUB4 EXISTING HUB BOX DETAIL
HUB4-UIC-HALSTED PEORIA STATION TYPE 2



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

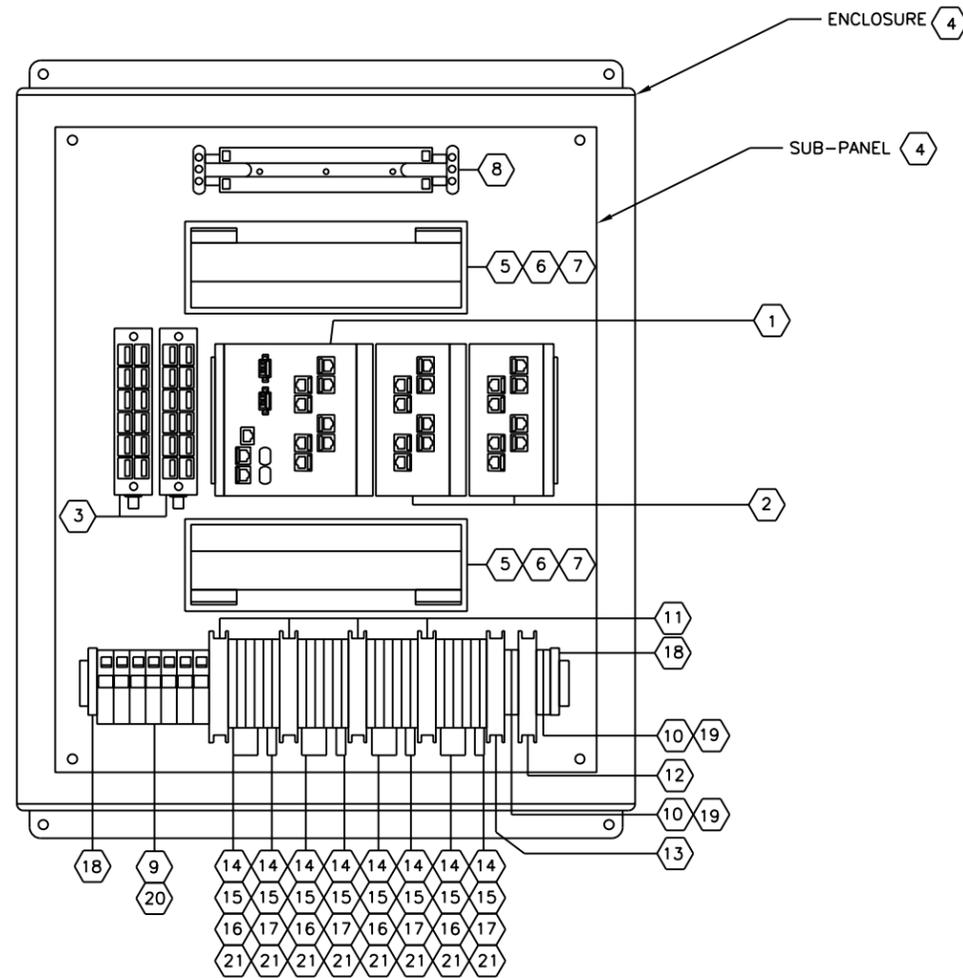
**PEORIA STREET STATION
COMMUNICATION EXISTING HUB DETAILS PART 3**

SHEET NO. 112 OF 117 SHEETS

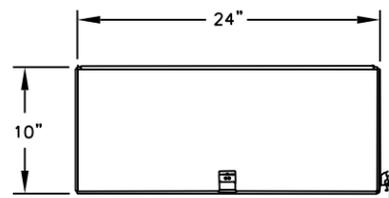
PRELIMINARY NOT FOR CONSTRUCTION

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	303
CONTRACT NO.			60W29	
ILLINOIS FED. AID PROJECT				

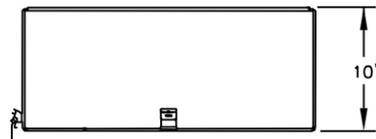
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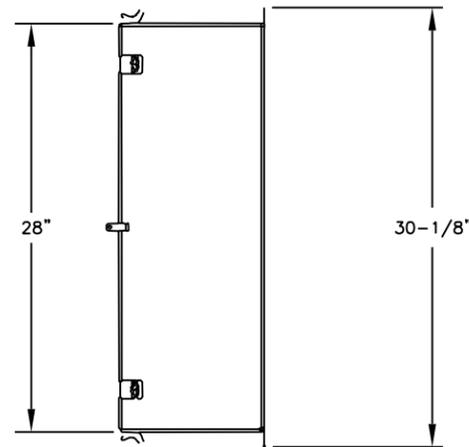
1 HUB - FRONT VIEW COMPONENTS
SCALE: NOT TO SCALE



3 HUB - TOP VIEW
SCALE: NOT TO SCALE



4 HUB - BOTTOM VIEW
SCALE: NOT TO SCALE



5 HUB - SIDE VIEW
SCALE: NOT TO SCALE

ITEM ID	MANUFACTURER	PART NUMBER	ITEM	QUANTITY
1	CISCO	IE-3000-8TC	8-PORT INDUSTRIAL ETHERNET SWITCH WITH RUGGED GbE MM SX SFP, LC CONNECTOR	1
2	CISCO	IE-3000-8TM	8-PORT ETHERNET SWITCH EXPANSION MODULE	2
3	CORNING	SPH-120TS-12E7H	OPTITIP 12 STRAND MM SC SINGLE PANEL HOUSING	2
4	J&A SHEET METAL		24" X 28" X 10" ENCLOSURE NEMA 4 STAINLESS TYPE 304 12 GAUGE -HINGED DOOR WITH LOCKING HASP -WELDED STUDS AND PLATE INSERT -MOUNTING TABS	1
5	LEVITON	492B0-QP0	12 PORT PATCH BLOCK	2
6	LEVITON	61110-RE6	CAT6 QUICKPORTS - BLACK	22
7	LEVITON	61110-RR6	CAT6 QUICKPORTS - RED	2
8	LEVITON	41AW1-50	50 PAIR TYPE 110 TERMINATION BLOCK	1
9	ALLEN-BRADLEY	1492-J35	TERMINAL BLOCK W/ 1492-M7X12 MARKER AS REQUIRED	8
10	ALLEN-BRADLEY	1492-J4	TERMINAL BLOCK W/ 1492-M7X12 MARKER AS REQUIRED	4
11	ALLEN-BRADLEY	1489-A1C200	20A CIRCUIT BREAKER	4
12	ALLEN-BRADLEY	1489-A1C100	10A CIRCUIT BREAKER	1
13	ALLEN-BRADLEY	1489-A1C030	3A CIRCUIT BREAKER	1
14	ALLEN-BRADLEY	1492-JD3FB	FUSE AND FEED THROUGH TB W/ 1492-MR6XB AND M6X5 MARKERS AS REQUIRED	24
15	ALLEN-BRADLEY	1492-SJ8A-3	3 POLE JUMPER	8
16	BUSSMANN	GMA-3	3A FUSE	16
17	BUSSMANN	GMA-4	4A FUSE	8
18	ALLEN-BRADLEY	1492-EAJ35	TB END ANCHOR	2
19	ALLEN-BRADLEY	1492-EBJ3	END BARRIERS	8
20	ALLEN-BRADLEY	1492-EBJ16	END BARRIERS	2
21	ALLEN-BRADLEY	1492-EBJD3FB	END BARRIERS	24
22			CAT6 PATCH CABLES 12" - BLACK	22
23			CAT6 PATCH CABLES 12" - RED	2
24			FIBER PATCH CABLE (MM-SC-LC) - 1 METER DUPLEX	2

2 HUB - MATERIAL SCHEDULE
SCALE: NOT TO SCALE



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DEPARTMENT OF TRANSPORTATION

PEORIA STREET STATION
COMMUNICATION STANDARD DETAILS COMMUNICATION HUB

SHEET NO. 113 OF 117 SHEETS

PRELIMINARY NOT FOR CONSTRUCTION

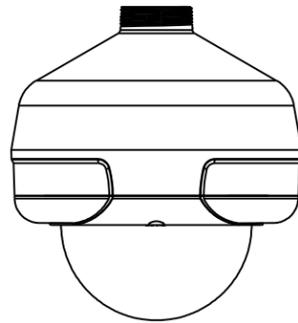
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	304
CONTRACT NO.			60W29	

ILLINOIS FED. AID PROJECT

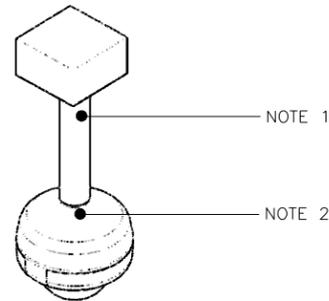
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NOTES:

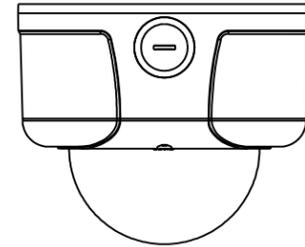
1. GRS CONDUIT 1 1/2".
2. PENDANT MOUNT.



1 FIXED CAMERA - PENDANT MOUNT
SCALE NTS



2 FIXED CAMERA - PENDANT DETAIL
SCALE NTS



3 FIXED CAMERA - SURFACE MOUNT
SCALE NTS



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEORIA STREET STATION
COMMUNICATION CCTV CAMERA DETAILS**

SHEET NO. 114 OF 117 SHEETS

PRELIMINARY NOT FOR CONSTRUCTION

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	305
CONTRACT NO.			60W29	
ILLINOIS FED. AID PROJECT				

14:22:17 PM 305-60W29.dgn

EQUIPMENT WIRING REQUIREMENT SCHEDULE

DEVICE	QTY/CRITERIA		COMM CABLE	TO	POWER CABLE	TO
	PLATFORM	STATION				
CCTV CAMERAS	SEE DWGS		(1) CAT-6 EACH	NEAREST HUB	2/C #14 AWG	NEAREST HUB
PA SPEAKERS	SEE DWGS		(1) 2/C #16 AWG PER PA SPEAKER CIRCUIT	COMM HUT/ROOM		
PA AMBIENT NOISE SENSOR (NS)	1 PER PA ZONE		(1) 3 PAIR SHIELDED #22 AWG CABLE	COMM HUT/ROOM		
TYPE I TELEPHONE		1 PER EQUIPMENT ROOM	(1) CAT-6 EACH	COMM HUT/ROOM WALL FIELD		
TYPE II TELEPHONE	1 EACH DIRECTION ON PLATFORM AT 8 CAR MARKER		(1) CAT-6 EACH	COMM HUT/ROOM WALL FIELD		
DAS	IF APPLICABLE		(1) CAT -6 EACH FACE (OR (2) CAT-6 PER DOUBLE FACE)	NEAREST COMM HUB	20A/1P CIRCUIT EACH FACE	ELECT ROOM NORMAL POWER
DMS (SINGLE FACE)	8 SINGLE FACE (2 SINGLE FACE BACK TO-BACK, EACH DIRECTION) AT 1/4 AND 3/4 PLATFORM, PERPENDICULAR TO THE TRACKS	2 SINGLE FACE BACK-TO-BACK, VIEWABLE FROM PAID AND UNPAID AREA	(1) CAT-6 EACH FACE	NEAREST HUB/COMM. ROOM	10A/1P CIRCUIT FOR EACH SET OF 2 DMS	COMM HUT RELIABLE POWER
HPT - TYPE IV TELEPHONE	1 AT 1/2 PLATFORM	1 IN PAID AREA, 1 IN UNPAID AREA	(1) CAT-6 EACH	NEAREST HUB/VOICE PATCH	2/C #18 AWG	COMM HUT
BLUE LIGHT FOR HPT	1 PER DIRECTION AT PLATFORM EDGE	1 PER STATION			2/C #18 AWG	NEAREST HUB
HPT TO BLUE LIGHT			(1) 2/C #18 AWG PER BLUE LIGHT	HPT		
WAP - DA	1 AT EACH END OF PLATFORM		(1) CAT-6 EACH	NEAREST HUB	2/C #14 AWG	NEAREST HUB
WAP - OMNI		1 AT CURB LANE OF STOREFRONT	(1) CAT-6 EACH	NEAREST HUB	2/C #14 AWG	NEAREST HUB
ISIGN (TOUCHSCREEN)		1	(1) CAT-6 EACH	NEAREST HUB	20A/1P CIRCUIT EACH	COMM HUT/ROOM
HUB - TYPE 3M	AS NEEDED		(1) 12-STRAND MM FIBER OPTIC, (3) CAT-6	COMM HUT/ROOM	8-#8'S / 2-#14 AWG	COMM HUT/ROOM
HUB - TYPE 4M	AS NEEDED		(1) 12-STRAND MM FIBER OPTIC, (3) CAT-6 (1) 25-PR CAT-5E FOR STATION HUB	COMM HUT/ROOM	8-#8'S / 2-#14 AWG	COMM HUT/ROOM
CA KIOSK	QTY AT CA KIOSK					
SVT(SEcurity VIDEO TERMINAL)	1 PER CA BOOTH		(1) CAT-6 EACH	COMM HUT/ROOM PASS THRU HUB		
i. VGA EXTENDERS-APANTEC PART NUMBER TSE-1-Eu AND TSE-1Ru .ii TX-CONNECTS TO .ii. TX-CONNECTS TO TELESTE ATI-4670 IN COMM ROOM/HUT iii. RX-VGA/USB/AUDIO CABLE CONNECTED TO SVT MONITOR IN KIOSK	1 PER CA BOOTH		(1) CAT-6 EACH	COMM HUT PASS THRU HUB	20A/1P CIRCUIT EACH	BEST SOURCE
TYPE III TELEPHONE	1 PER CA BOOTH		(1) CAT-6 EACH	COMM HUT PASS THRU HUB		
MICROPHONE	1 PER CA BOOTH		(1) CAT-6 EACH	COMM HUT PASS THRU HUB		
DATA			(1) CAT-6 DATA/(1) CAT-6 SPARE/ (1) 6SM/6MM FO CABLE	NEAREST HUB		



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PLOT DATE = 10/28/2013	CHECKED -	REVISED

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DEPARTMENT OF TRANSPORTATION**

**PEORIA STREET STATION
COMMUNICATION EQUIPMENT WIRING REQUIREMENT SCHEDULE**

SHEET NO. 115 OF 117 SHEETS

PRELIMINARY NOT FOR CONSTRUCTION

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	306
CONTRACT NO.			60W29	
ILLINOIS FED. AID PROJECT				

14:22:35 PM 306-60W29.dgn

EQUIPMENT SCHEDULE

DEVICE	DEVICE NUMBER	HUB NUMBER	PORT NUMBER	IP ADDRESS	MAKE/MODEL	MOUNT TYPE	MOUNT HEIGHT	LENS	LOCATION	NEW	EXISTING	EXISTING TO REPLACE	REMARKS
FIXED CAMERA	CAM01	HUB1	Fo1/1	10.106.116.188	IEE-20DN	N/A	N/A	N/A	INBOUND PLATFORM		X		
FIXED CAMERA	CAM02	HUB1	Fo1/2	10.106.116.187	IEE-20DN	N/A	N/A	N/A	INBOUND PLATFORM		X		
FIXED CAMERA	CAM03	HUB1	Fo1/3	10.106.116.186	IEE-20DN	N/A	N/A	N/A	INBOUND PLATFORM		X		
FIXED CAMERA	CAM04	HUB2	Fo1/1	10.106.116.185	IEE-20DN	N/A	N/A	N/A	INBOUND PLATFORM		X		
FIXED CAMERA	CAM05	HUB2	Fo1/2	10.106.116.184	IEE-20DN	N/A	N/A	N/A	INBOUND PLATFORM		X		
FIXED CAMERA	CAM06	HUB2	Fo1/3	10.106.116.183	IEE-20DN	N/A	N/A	N/A	OUTBOUND PLATFORM		X		
FIXED CAMERA	CAM07	HUB2	Fo1/7	10.106.116.182	IEE-20DN	N/A	N/A	N/A	OUTBOUND PLATFORM		X		
FIXED CAMERA	CAM08	HUB2	Fo1/5	10.106.116.181	IEE-20DN	N/A	N/A	N/A	OUTBOUND PLATFORM		X		
FIXED CAMERA	CAM09	HUB1	Fo1/4	10.106.116.180	IEE-20DN	N/A	N/A	N/A	OUTBOUND PLATFORM		X		
FIXED CAMERA	CAM10	HUB1	Fo1/5	10.106.116.179	IEE-20DN	N/A	N/A	N/A	OUTBOUND PLATFORM		X		
FIXED CAMERA	CAM11	HUB1	Fo1/6	10.106.116.178	IEE-20DN	N/A	N/A	N/A	WEST WALKWAY		X		
FIXED CAMERA	CAM16	HUB4	Fo1/1	10.106.116.173	IEE-20DN	N/A	N/A	N/A	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM17	HUB4	Fo1/2	10.106.116.172	IEE-20DN	N/A	N/A	N/A	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM18	HUB4	Fo1/3	10.106.116.171	IEE-20DN	N/A	N/A	N/A	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM19	HUB4	Fo1/4	10.106.116.170	IEE-20DN	N/A	N/A	N/A	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM20	HUB4	Fo1/5	10.106.116.169	IEE-20DN	CEILING	100"	2.8	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM21	HUB4	Fo1/6	10.106.116.168	IEE-20DN	CEILING	100"	2.8	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM22	HUB4	Fo1/7	10.106.116.167	IEE-20DN	CEILING	100"	2.8	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM23	HUB4	Fo1/8	10.106.116.166	IEE-20DN	N/A	N/A	N/A	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM36	HUB4	Fo2/1	10.106.116.TBD	IEE-20DN	CEILING	100"	2.8	STATION (PEORIA)	X			
FIXED CAMERA	CAM37	HUB4	Fo2/2	10.106.116.TBD	IEE-20DN	CEILING	100"	2.8	PLATFORM ELEVATOR	X			
FIXED CAMERA	CAM27	HUB2	Fo2/1	10.106.116.162	IEE-20DN	CEILING	100"	2.8	PLATFORM STAIRS			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM28	HUB2	Fo2/2	10.106.116.161	IEE-20DN	CEILING	100"	2.8	PLATFORM STAIRS			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM29	HUB2	Fo2/3	10.106.116.160	IEE-20DN	CEILING	100"	2.8	PLATFORM STAIRS			X	LOCATED AS SHOWN ON DWGS
FIXED CAMERA	CAM31	HUB1	Fo1/8	10.106.116.158	IEE-20DN	CEILING	100"	2.8	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
PTZ CAMERA	CAM32	HUB2	Fo2/6	10.106.116.157	D5118	N/A	N/A	N/A	OUTBOUND PLATFORM		X		
PTZ CAMERA	CAM33	HUB1	Fo1/7	10.106.116.156	D5118	N/A	N/A	N/A	INBOUND PLATFORM		X		
CISCO IEM3000-8FM EXPANSION MODULES	HUB4	INSIDE HUB4	8	N/A	N/A	INSIDE HUB4	N/A	N/A	STATION (PEORIA)	X			
DIGITAL MESSAGE SYSTEM	D1	HUB1	Fo2/1	10.106.114.194	GDS	BRACKET	103"	N/A	INBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D2	HUB1	Fo2/2	10.106.114.195	GDS	BRACKET	103"	N/A	INBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D3	HUB1	Fo2/3	10.106.114.196	GDS	BRACKET	103"	N/A	INBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D4	HUB1	Fo2/4	10.106.114.197	GDS	BRACKET	103"	N/A	INBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D5	HUB2	Fo2/5	10.106.114.198	GDS	BRACKET	103"	N/A	OUTBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D6	HUB2	Fo2/6	10.106.114.199	GDS	BRACKET	103"	N/A	OUTBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D7	HUB2	Fo2/7	10.106.114.200	GDS	BRACKET	103"	N/A	OUTBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D8	HUB2	Fo2/8	10.106.114.201	GDS	BRACKET	103"	N/A	OUTBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D9	HUB1	Fo2/5	10.106.114.202	GDS	BRACKET	103"	N/A	INBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D10	HUB1	Fo2/6	10.106.114.203	GDS	BRACKET	103"	N/A	INBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D11	HUB1	Fo2/7	10.106.114.204	GDS	BRACKET	103"	N/A	INBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D12	HUB1	Fo2/8	10.106.114.205	GDS	BRACKET	103"	N/A	INBOUND PLATFORM		X		
DIGITAL MESSAGE SYSTEM	D15	HUB4	Fo2/2	10.106.114.208	GDS	BRACKET	103"	N/A	STATION (PEORIA)		X		RELOCATE AS SHOWN ON DWGS
DIGITAL MESSAGE SYSTEM	D16	HUB4	Fo2/3	10.106.114.209	GDS	BRACKET	103"	N/A	STATION (PEORIA)		X		RELOCATE AS SHOWN ON DWGS



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PLOT DATE = 10/28/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEORIA STREET STATION
COMMUNICATION EQUIPMENT SCHEDULE PART 1**

SHEET NO. 116 OF 117 SHEETS

PRELIMINARY NOT FOR CONSTRUCTION

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	307
CONTRACT NO.			60W29	
ILLINOIS FED. AID PROJECT				

14:22:56 PM 307-60W29.dgn

EQUIPMENT SCHEDULE (CONTINUED)

DEVICE	DEVICE NUMBER	HUB NUMBER	PORT NUMBER	IP ADDRESS	MAKE/MODEL	MOUNT TYPE	MOUNT HEIGHT	LENS	LOCATION	NEW	EXISTING	EXISTING TO REPLACE	REMARKS
ISIGN	1-2	HUB4	Fo2/4	FUTURE	FUTURE	FLOOR			STATION (PEORIA)	X			
SECURITY VIDEO TERMINAL	SVT	HUB4	Fo2/5	N/A	LITEMAX/SLKD1954	DESK	TBD	N/A	STATION (PEORIA)		X		RELOCATE AS SHOWN ON DWGS
DIGITAL MESSAGE SYSTEM	MI	HUB4	Fo2/6	N/A	TBD	DESK	TBD	N/A	STATION (PEORIA)		X		RELOCATE AS SHOWN ON DWGS
HELP POINT TELEPHONE	H1	COMM ROOM	PS SYS. 66 BLK.	N/A	GAI-TRONICS 393AL-001	COLUMN	48"	N/A	INBOUND PLATFORM		X		
HELP POINT TELEPHONE	H4	COMM ROOM	PS SYS. 66 BLK.	N/A	GAI-TRONICS 393AL-001	WALL	48"	N/A	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
HELP POINT TELEPHONE	H5	COMM ROOM	PS SYS. 66 BLK.	N/A	GAI-TRONICS 393AL-001	WALL	48"	N/A	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
BLUE LIGHT	BL1	H1	N/A	N/A	TOMAR 500L-1228-B	CEILING	100"	N/A	INBOUND PLATFORM		X		
BLUE LIGHT	BL2	H1	N/A	N/A	TOMAR 500L-1228-B	CEILING	100"	N/A	OUTBOUND		X		
BLUE LIGHT	BL4	H4/H5	N/A	N/A	TOMAR 500L-1228-B	CEILING	100"	N/A	STATION (PEORIA)			X	LOCATED AS SHOWN ON DWGS
SPEAKERS INBOUND	A/B	IED	PA SYSTEM	N/A	BOGEN /A2T	CANOPY	N/A	N/A	INBOUND PLATFORM		34		
SPEAKERS OUTBOUND	C/D	IED	PA SYSTEM	N/A	BOGEN /A2T	CANOPY	N/A	N/A	OUTBOUND PLATFORM		34		
SPEAKERS STATION	F	IED	PA SYSTEM	N/A	BOGEN /A2T	CEILING	N/A	N/A	STATION (PEORIA)	7			LOCATED AS SHOWN ON DWGS
NOISE SENSOR N1	N1	IED	N/A	N/A	IED/212	N/A	N/A	N/A	INBOUND PLATFORM		2		
NOISE SENSOR N2	N2	IED	N/A	N/A	IED/212	N/A	N/A	N/A	OUTBOUND PLATFORM		2		
NOISE SENSOR N4	N4	IED	N/A	N/A	IED/212	N/A	N/A	N/A	STATION (PEORIA)			1	LOCATED AS SHOWN ON DWGS



3940 West Touhy Avenue, Suite 210, Niles, IL 60714
Phone: 847-647-9999 • Fax: 847-647-4719



USER NAME = habit	DESIGNED -	REVISED
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PLOT SCALE = 2.0000 / in.	DRAWN -	REVISED
PLOT DATE = 10/28/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

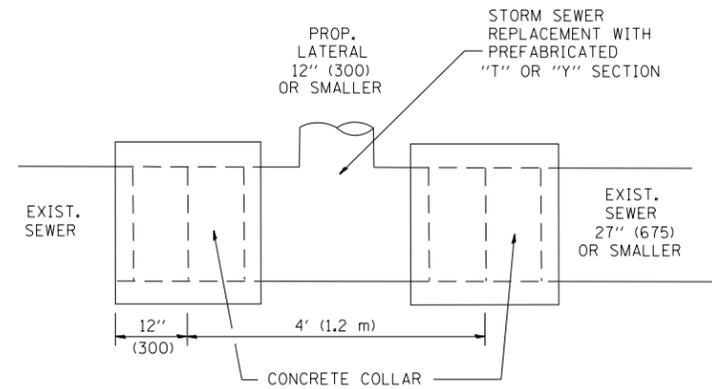
**PEORIA STREET STATION
COMMUNICATION EQUIPMENT SCHEDULE PART 2**

SHEET NO. 117 OF 117 SHEETS

PRELIMINARY NOT FOR CONSTRUCTION

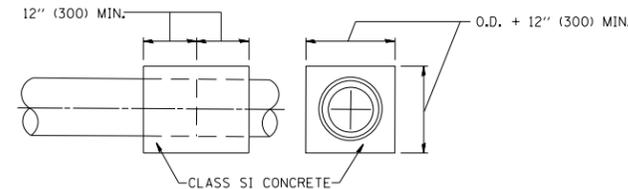
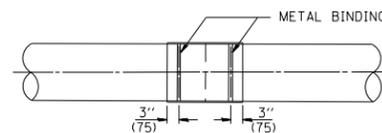
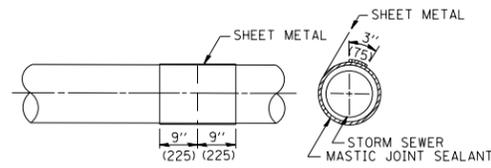
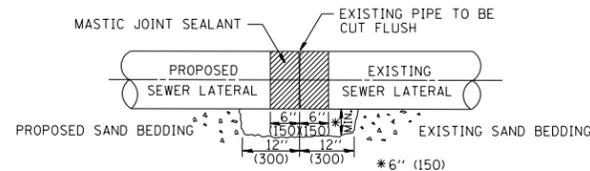
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2090	2013-011R	COOK	356	308
CONTRACT NO.			60W29	
ILLINOIS FED. AID PROJECT				

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DETAIL "A"

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



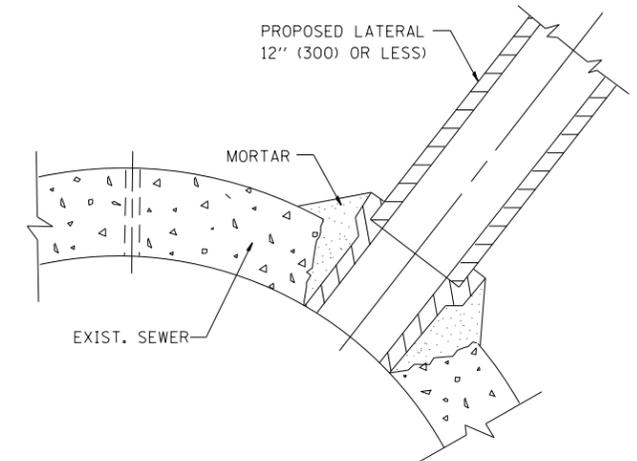
DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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

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



DETAIL "C"

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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

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

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

GENERAL

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

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

BASIS OF PAYMENT

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

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

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

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

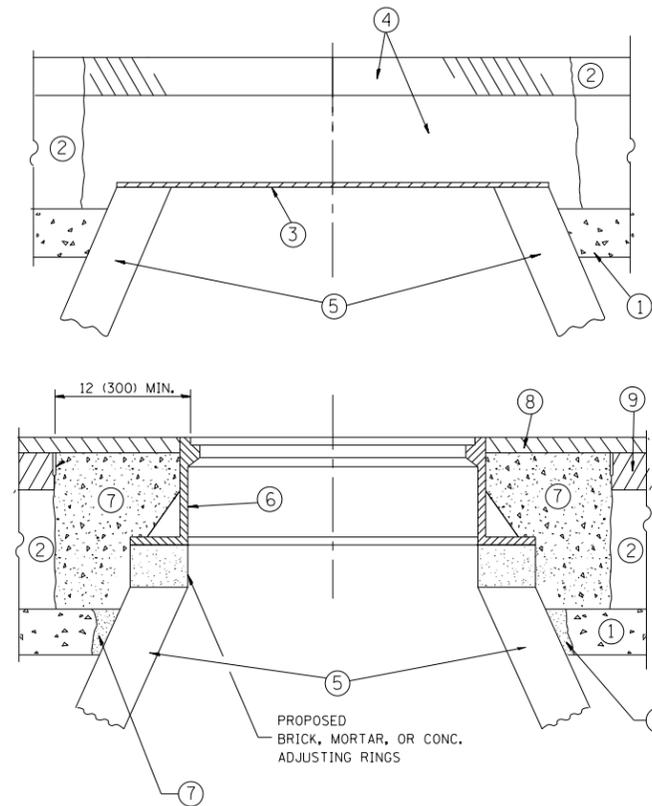
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PLOT SCALE = 100.000' / in.		CHECKED -	REVISED - R. SHAH 10-25-94
PLOT DATE = 10/28/2013		DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
BD-07

SCALE: NONE SHEET NO. 1 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	356	309
BD500-01 (BD-7)			CONTRACT NO. 60W29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

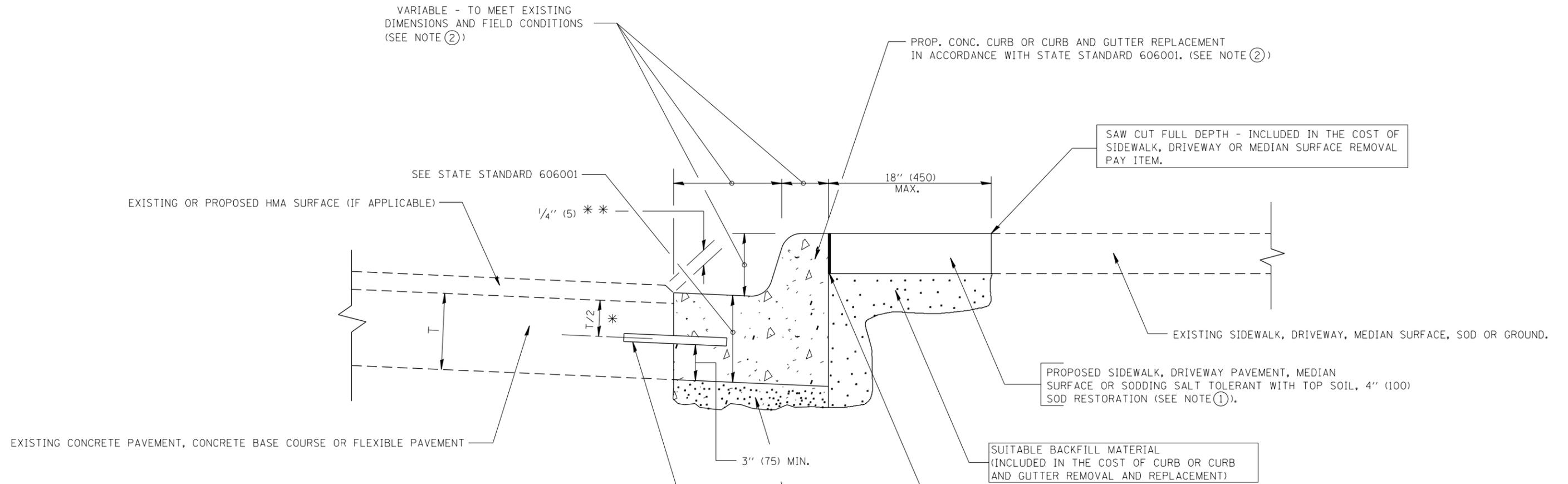
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	PLOT SCALE = 1/8" = 1'-0"	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 STANDARD DETAILS
BD-08**

SCALE: NONE SHEET NO. 2 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	356	310
BD600-03 (BD-8)		CONTRACT NO. 60W29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
 - * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.
- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
 - ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
 - ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
 - ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
 - ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)
- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

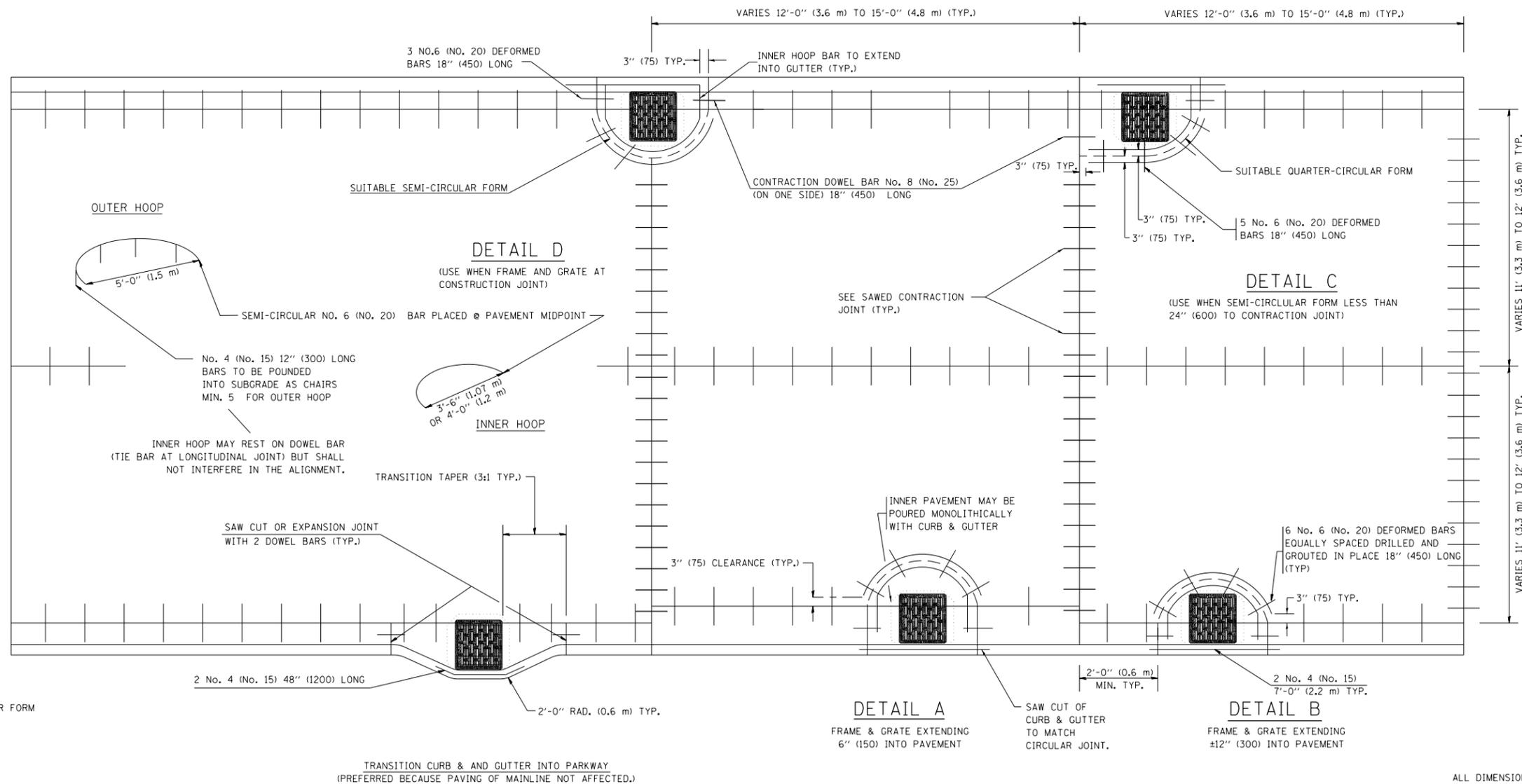
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				SCALE: NONE		SHEET NO. 4 OF 22 SHEETS		STA.		TO STA.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT											

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

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

NOTES :

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



LEGEND:

- CASTING
- - - - - SUITABLE SEMI-CIRCULAR FORM

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

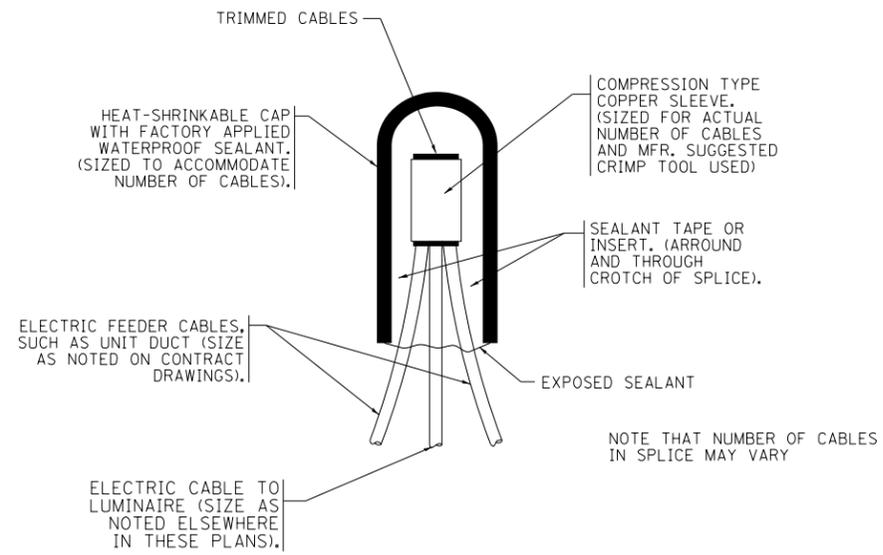
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		DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
BD-48

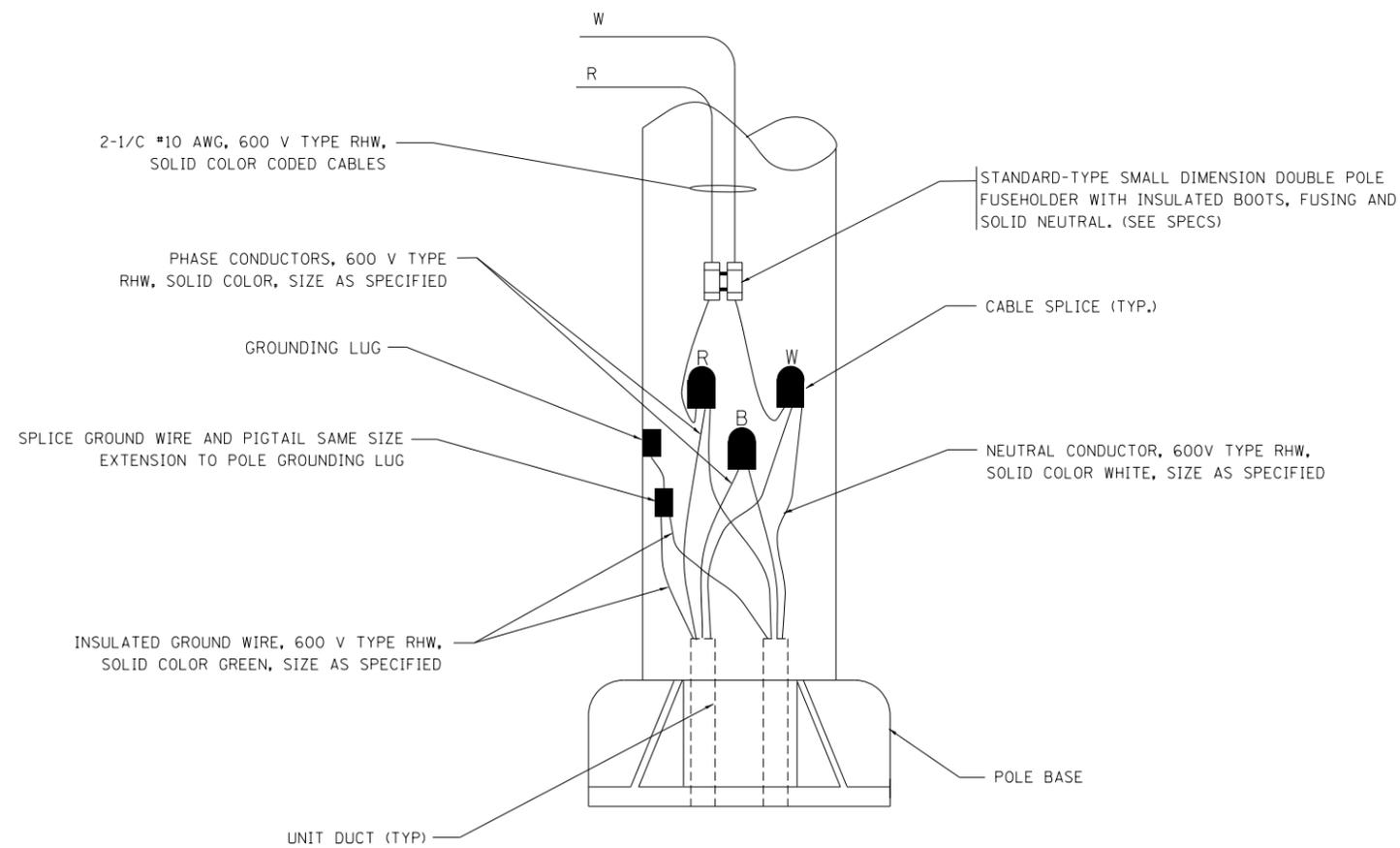
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD-48			CONTRACT NO. 60W29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



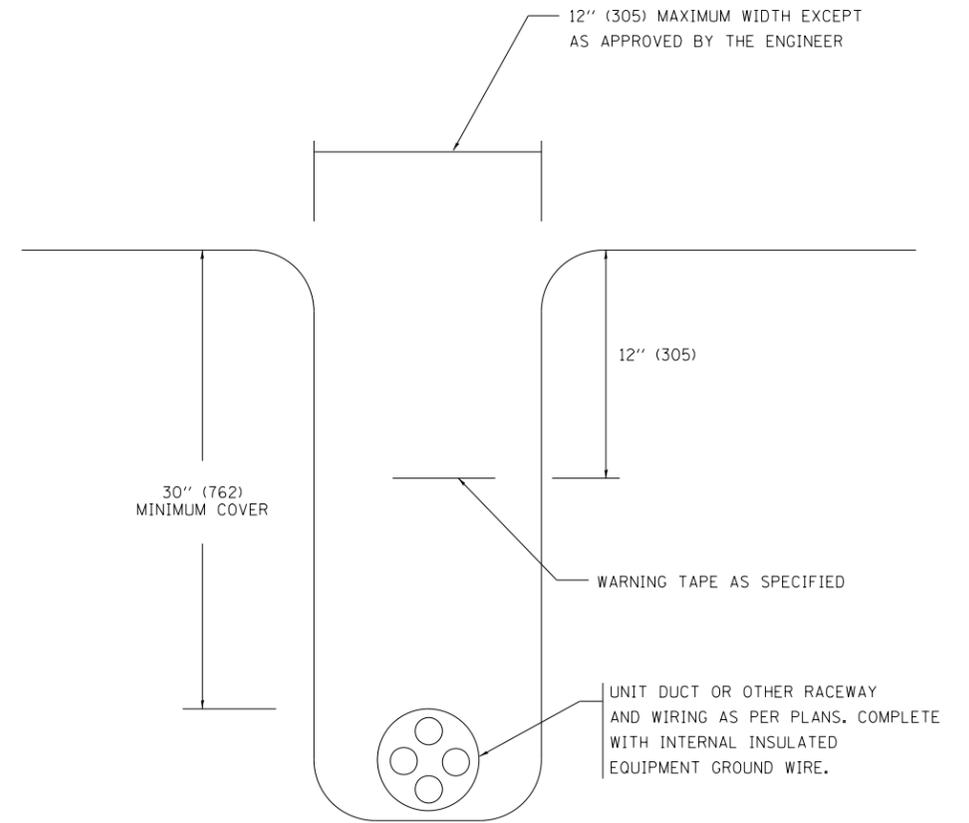
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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PLOT DATE = 10/28/2013			

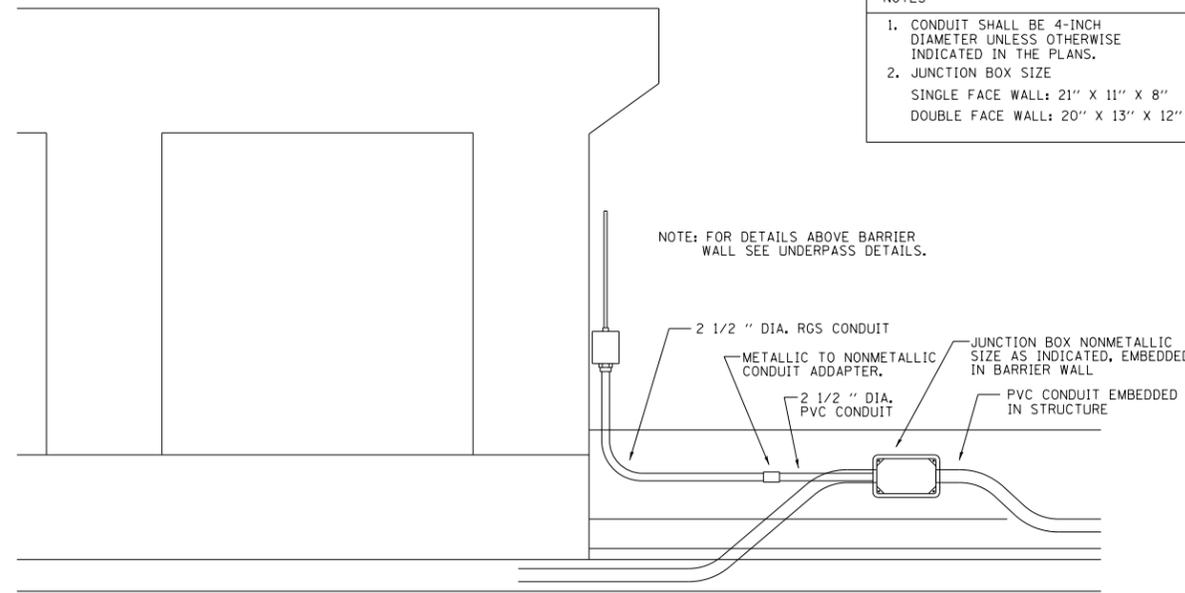
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
BE-702

SCALE: NONE SHEET NO. 8 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	356	316
BE-702		CONTRACT NO. 60W29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

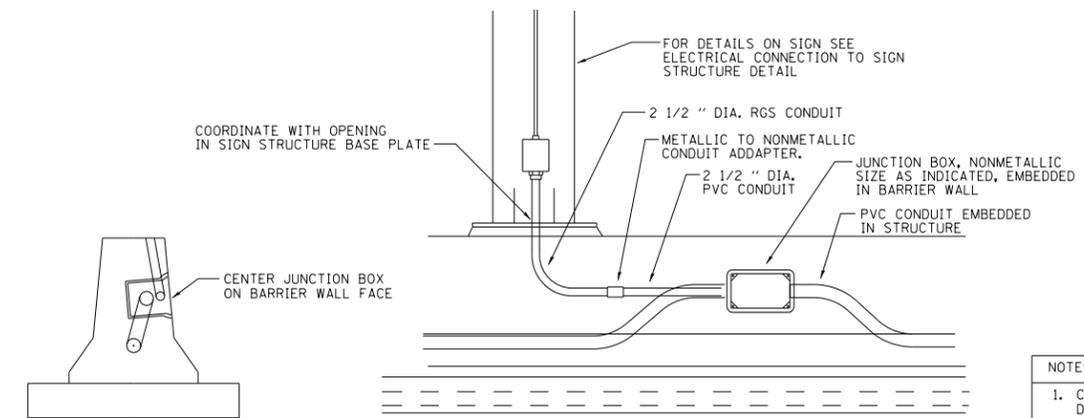
90/94/290



ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

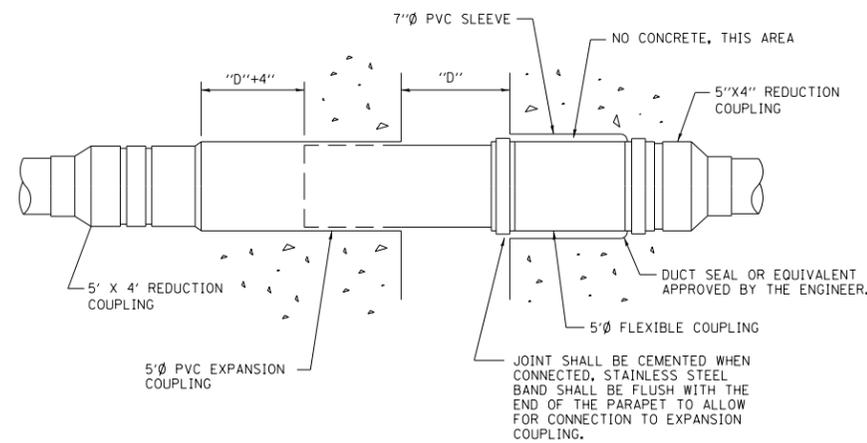
NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

NOTE: FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

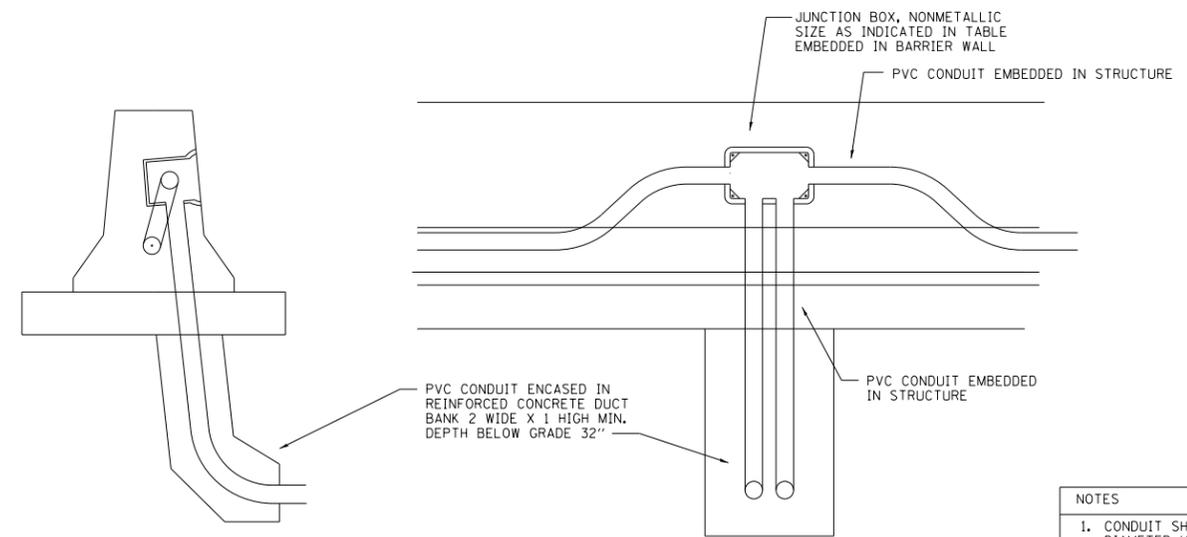


ED - SGN
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING

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



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



ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL

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

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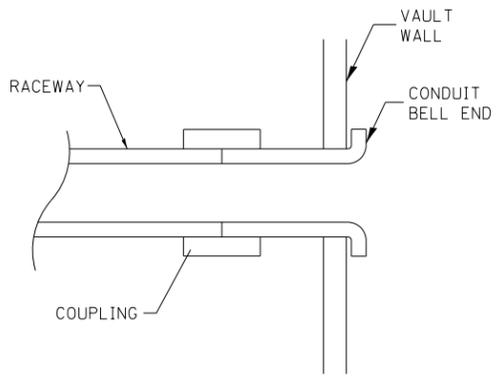
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
BE-703

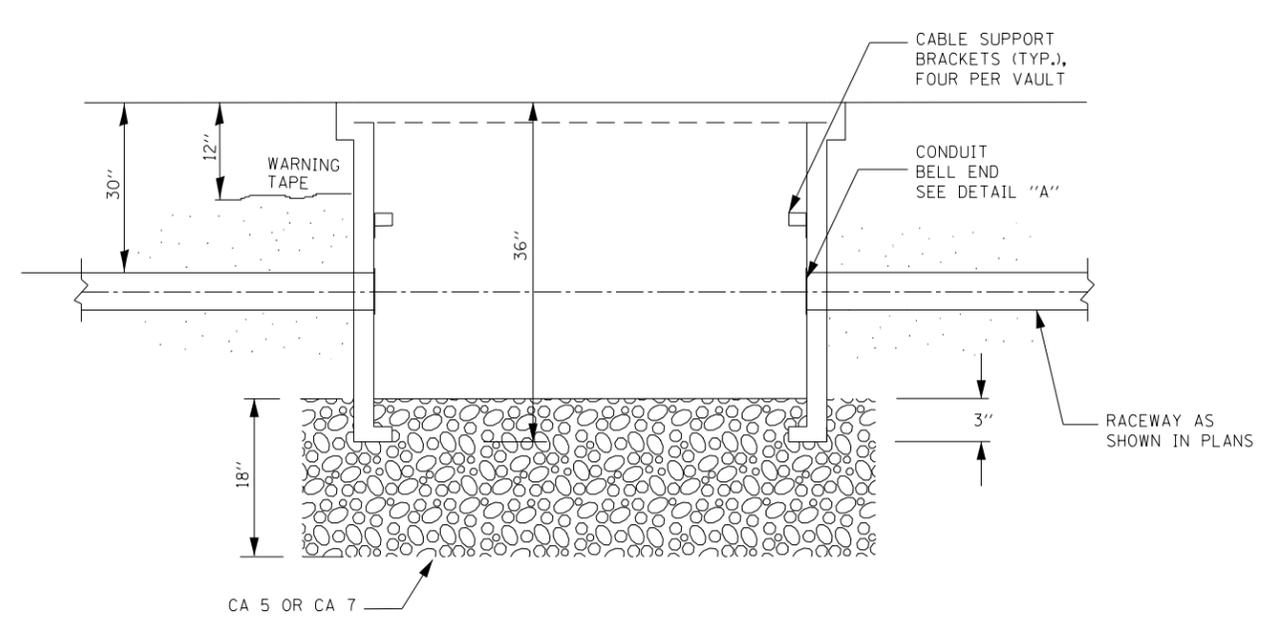
SCALE: NONE SHEET NO. 9 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	356	317
BE-703			CONTRACT NO. 60W29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
90/94/290				

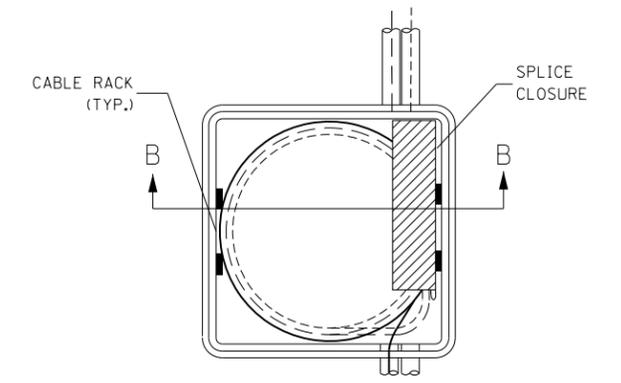
COMMUNICATIONS VAULT LOAD RATINGS			
COMPONENT	ANSI TIER	LOADING	
		DESIGN	TEST
BOX	22	22,500 lbs.	37,750 lbs.
COVER	22	22,500 lbs.	37,750 lbs.



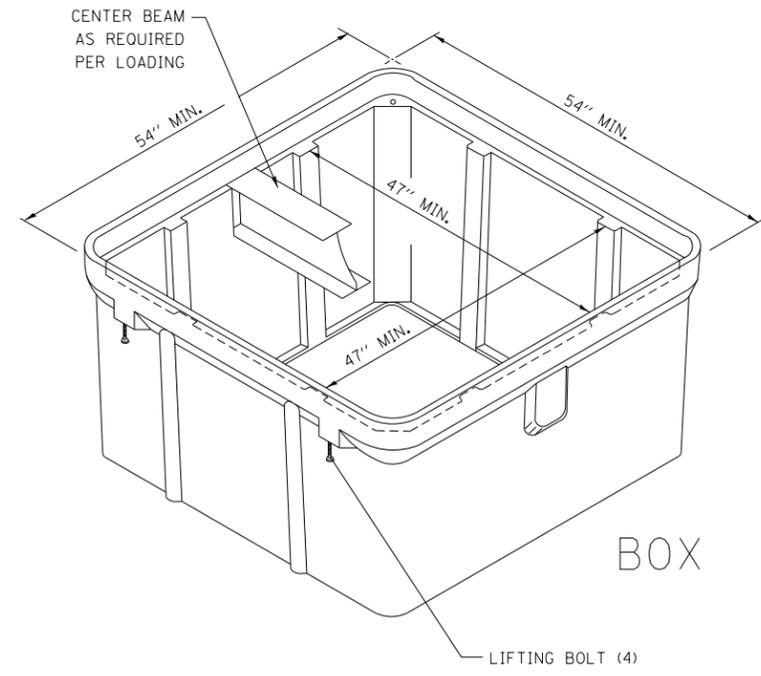
DETAIL A



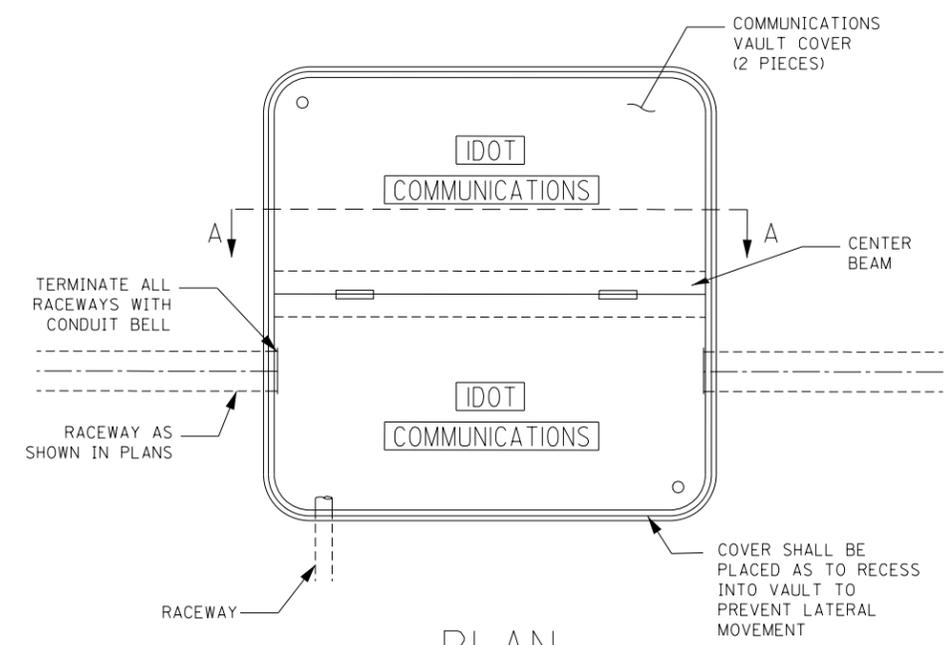
SECTION A-A



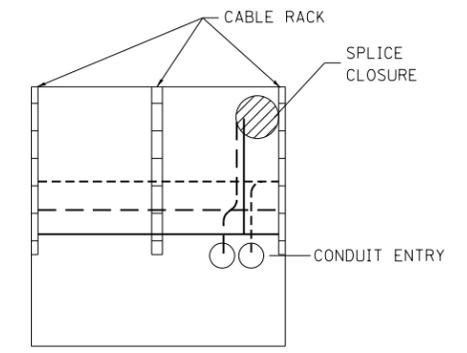
TOP VIEW



ISOMETRIC



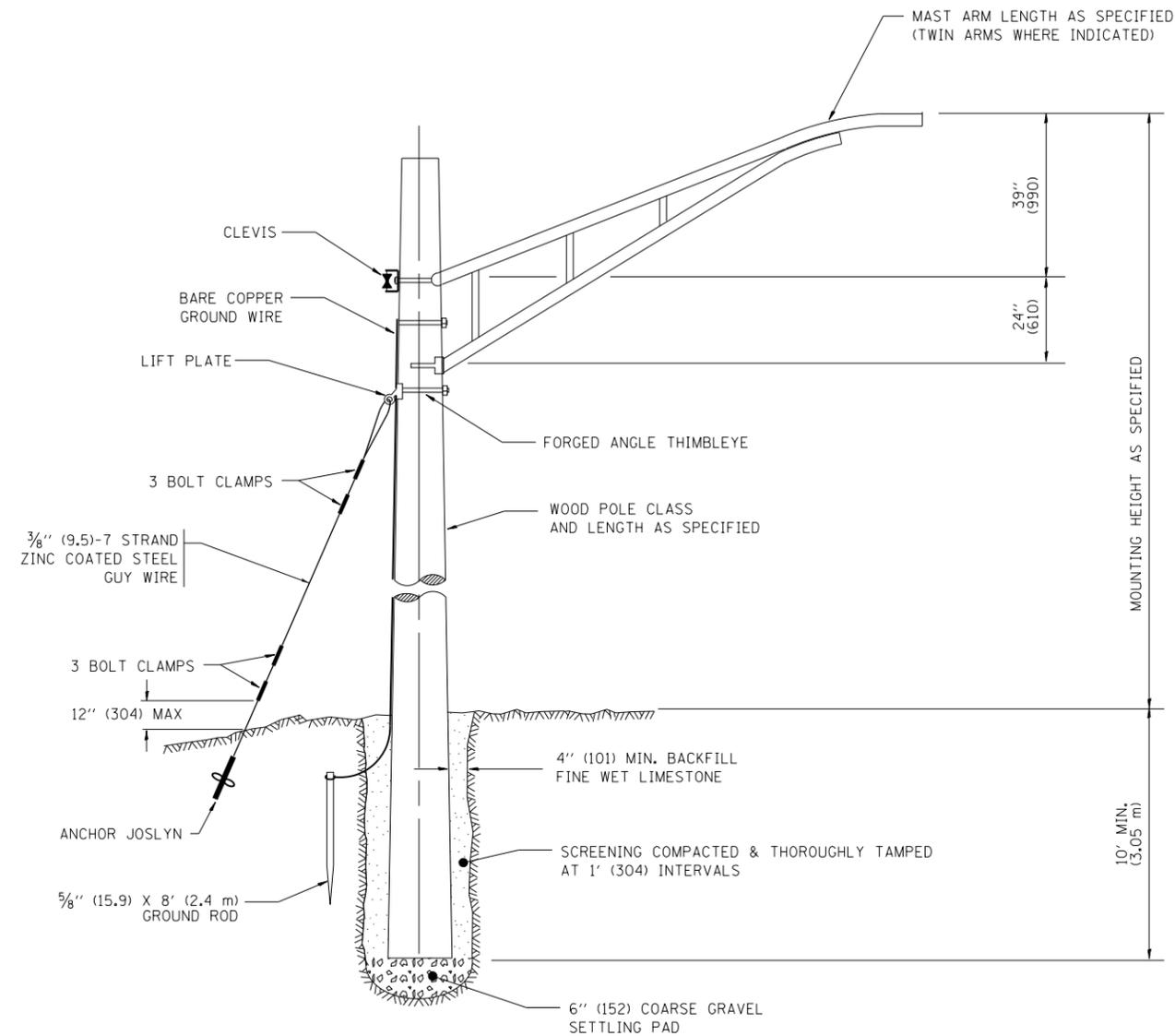
PLAN



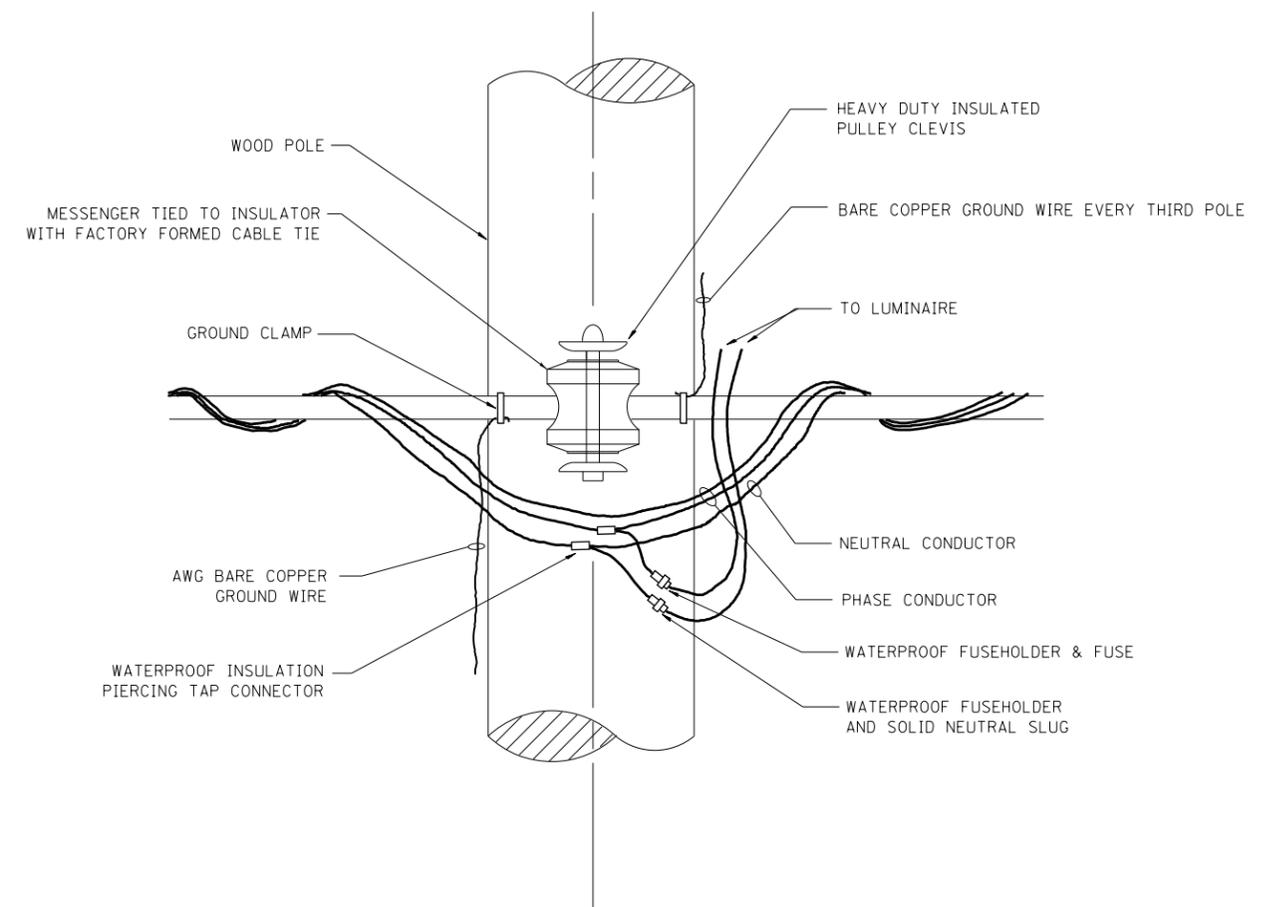
SECTION B-B

NOTES:

1. BOX SHALL HAVE AN OPEN BASE.
2. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
3. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
4. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.



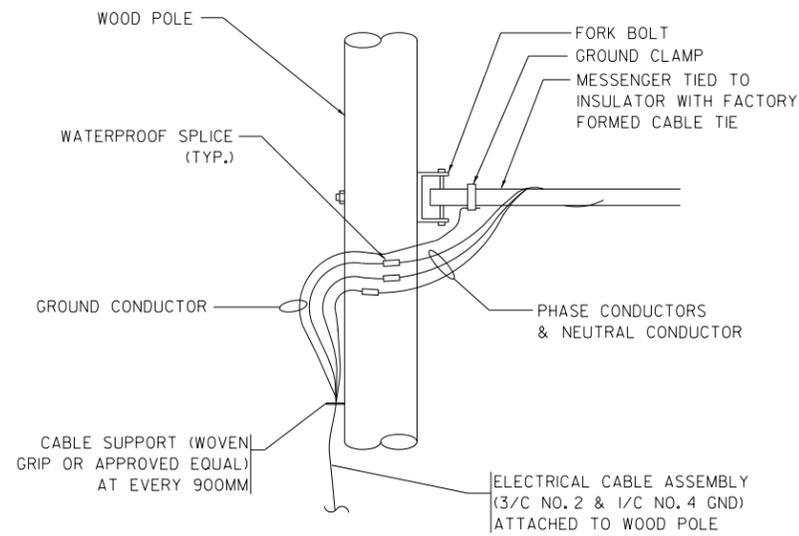
TEMPORARY LIGHT POLE DETAIL



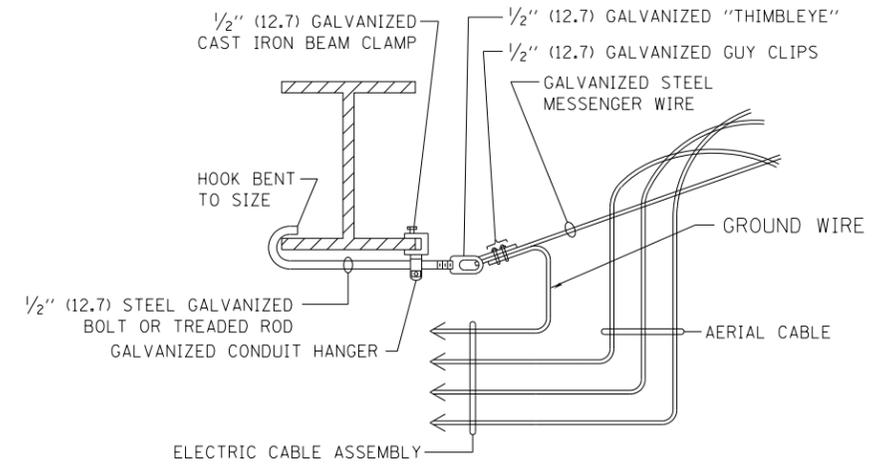
TEMPORARY LIGHT POLE ATTACHMENT DETAIL

- NOTES:
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME =	USER NAME = BAWtor	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD DETAILS BE-800			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 100.000' / in.					CHECKED -	REVISED -	SCALE: NONE	SHEET NO. 11 OF 22 SHEETS	STA.	TO STA.	2013-011R	COOK	356	319
PLOT DATE = 10/28/2013					DATE -	REVISED -	CONTRACT NO. 60W29							
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT														
90/94/290														



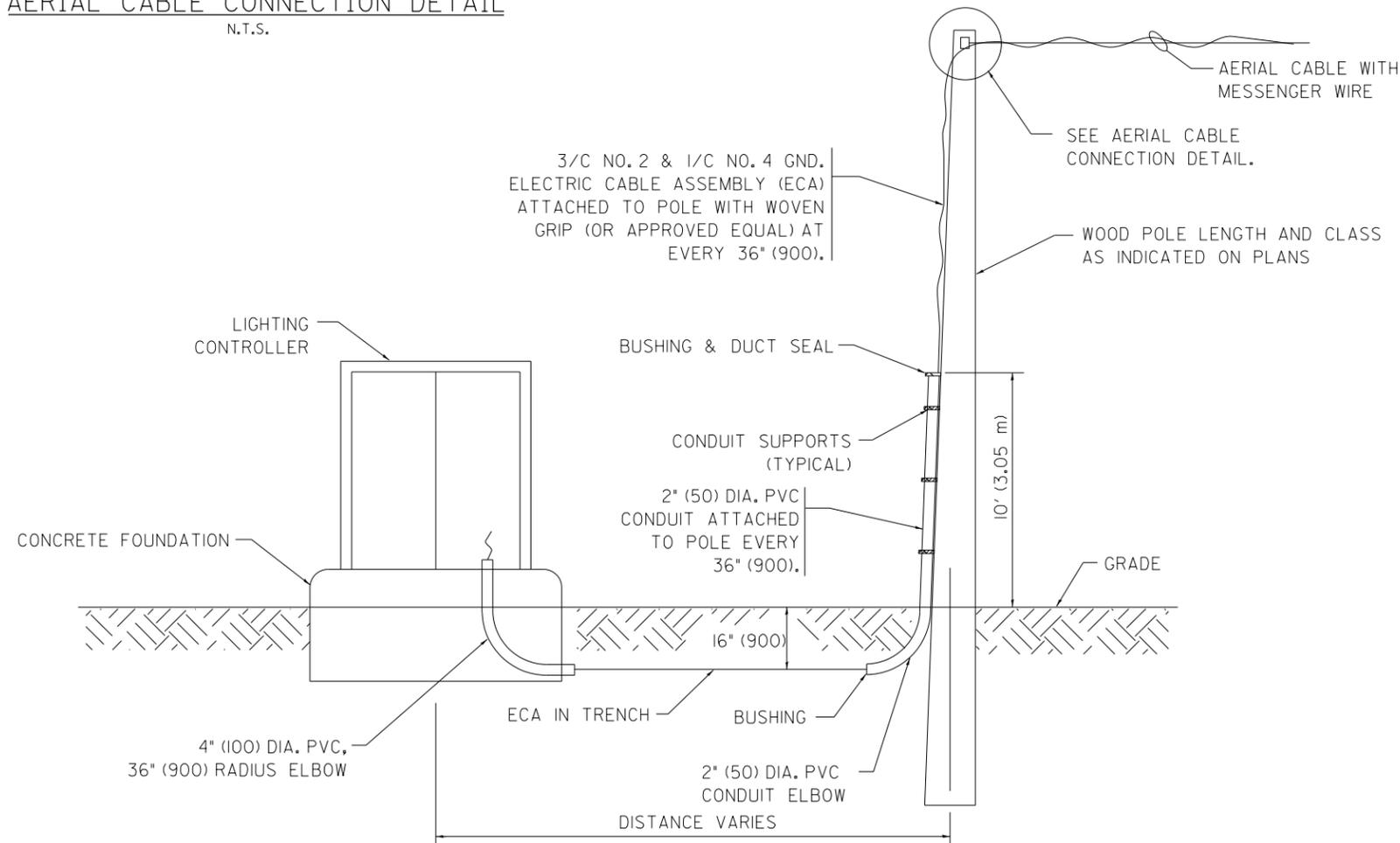
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

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



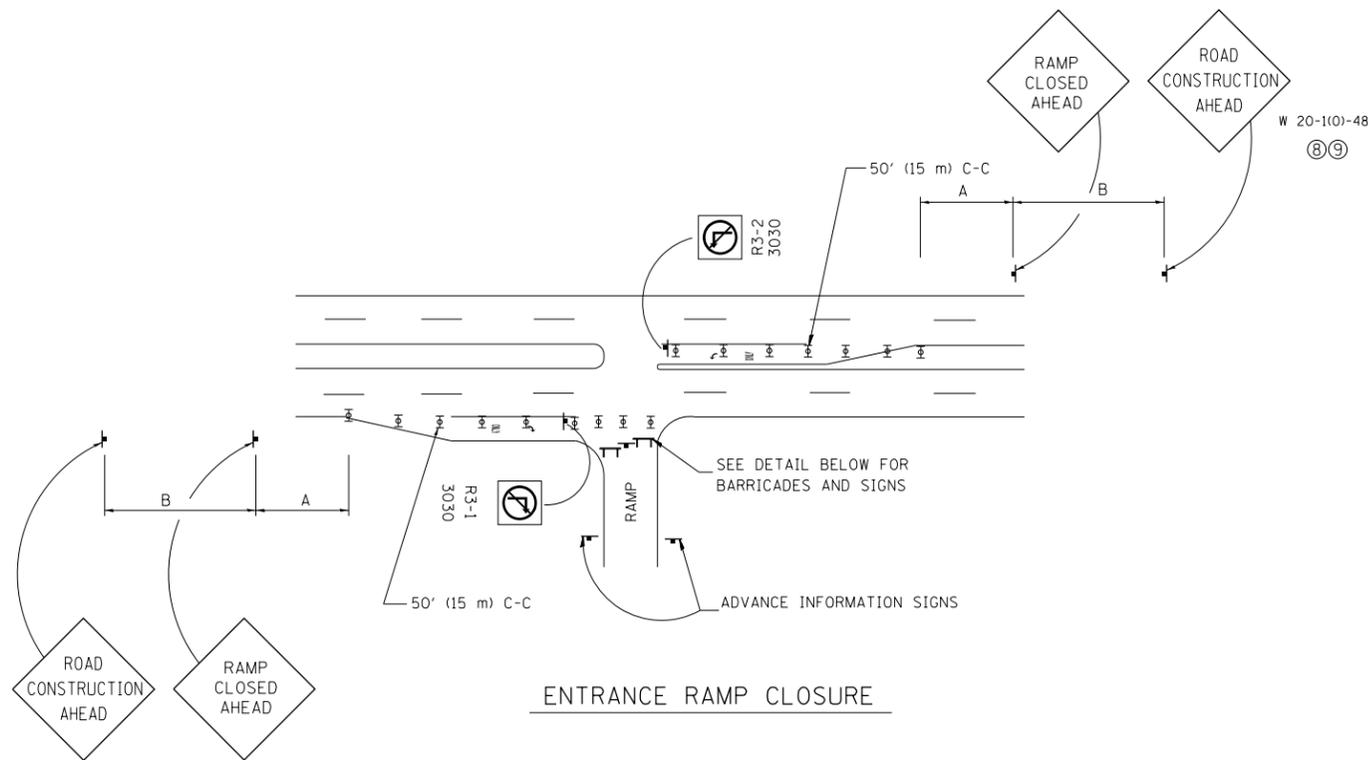
WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

FILE NAME =	USER NAME = BAWtor	DESIGNED -	REVISED - 08-08-03
C:\Users\Bawtor\Documents\Illinois Transportation\60W29\60W29-011R\CAD\006\Road\60W29-011R\60W29-011R-SHT-D1-12.dgn		CHECKED -	REVISED -
PLOT SCALE = 100.000' / in.		DATE -	REVISED -
PLOT DATE = 10/28/2013			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT 1 STANDARD DETAILS			
BE-801			
SCALE: NONE	SHEET NO. 12 OF 22 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	356	320
	BE-801	CONTRACT NO. 60W29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• 90/94/290				



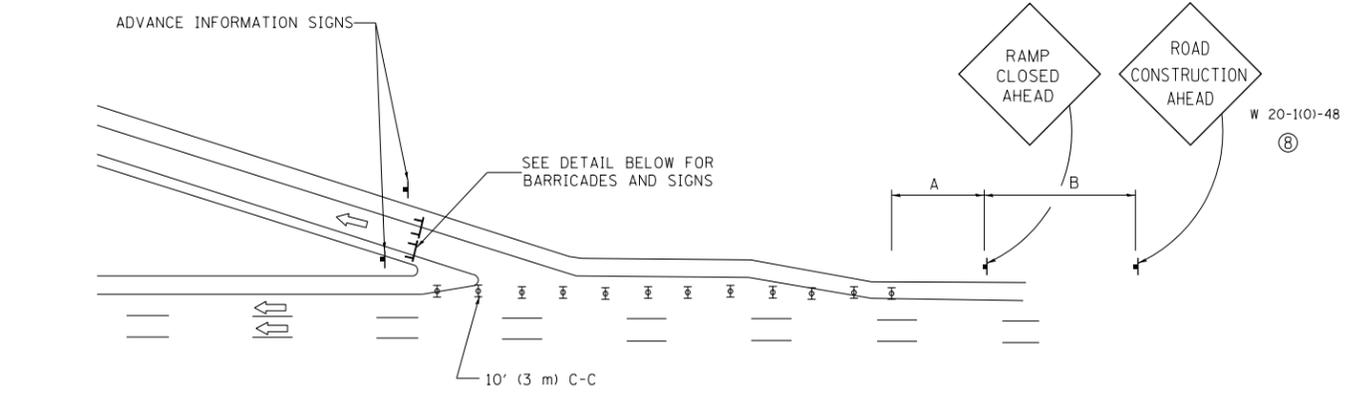
ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

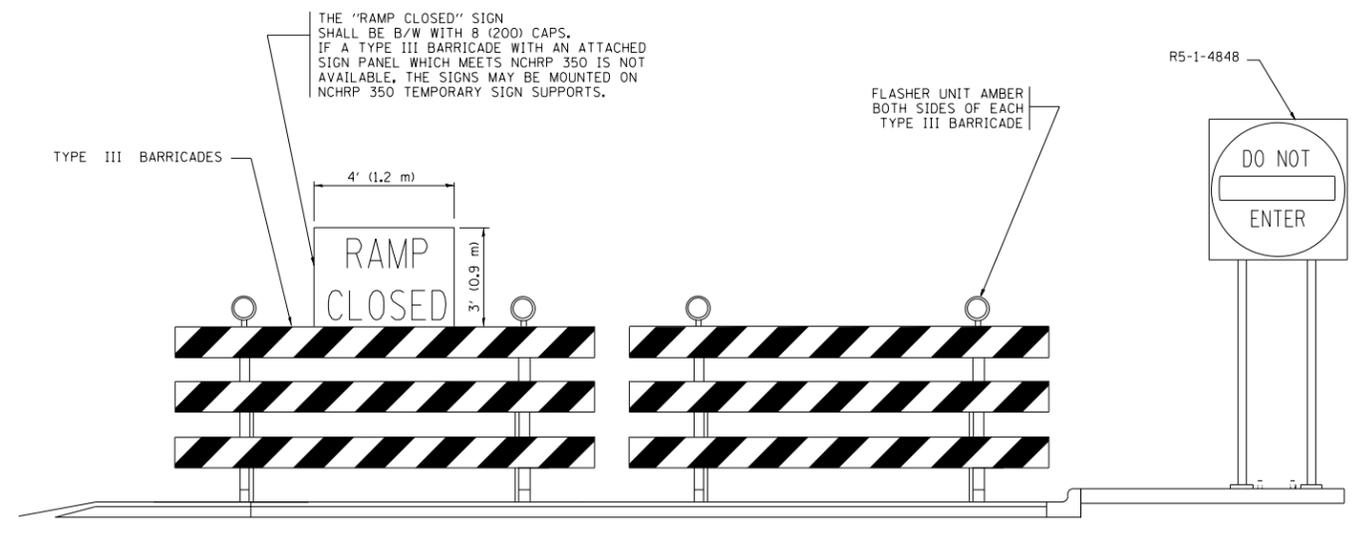
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

W 20-1(0)-48
⑧⑨

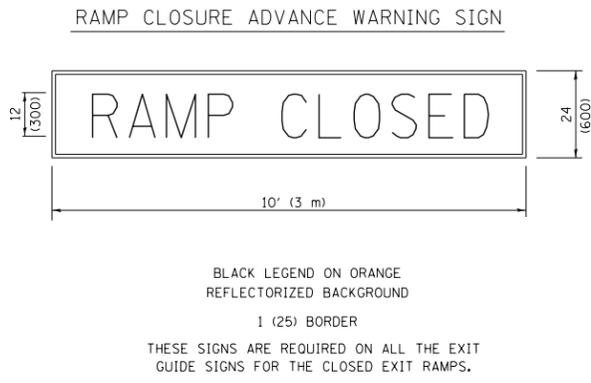


EXIT RAMP CLOSURE

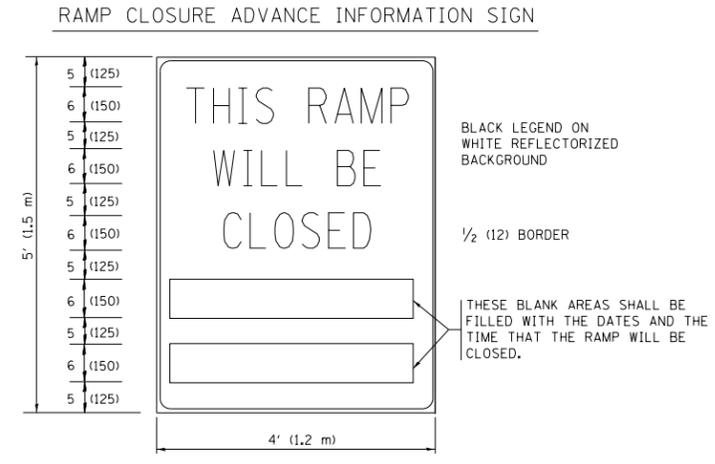
- SYMBOLS**
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ⊏ TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.



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

GENERAL NOTES:

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

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

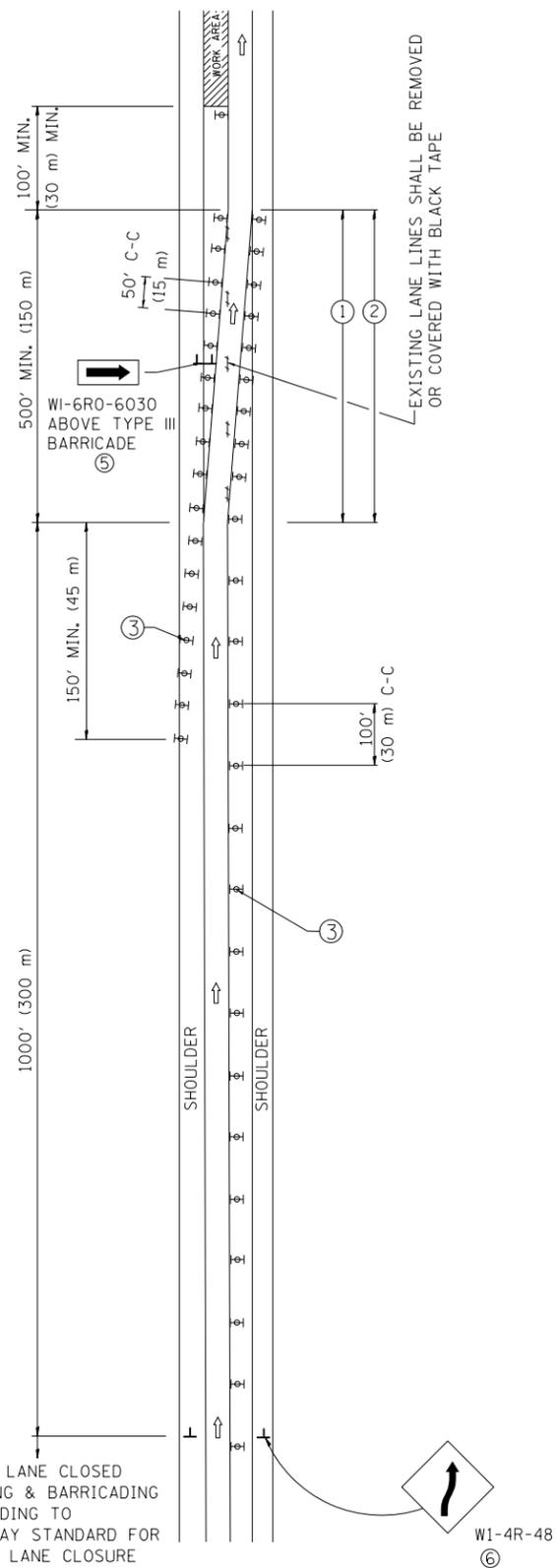
FILE NAME =	USER NAME = BAWtort	DESIGNED - DWS	REVISED - DWS/JAF 12-02
PLOT SCALE = 1/8" = 1' / in.		CHECKED -	REVISED - SPB 01-07
PLOT DATE = 10/28/2013		DATE - 02-83	REVISED - SPB 12-09

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

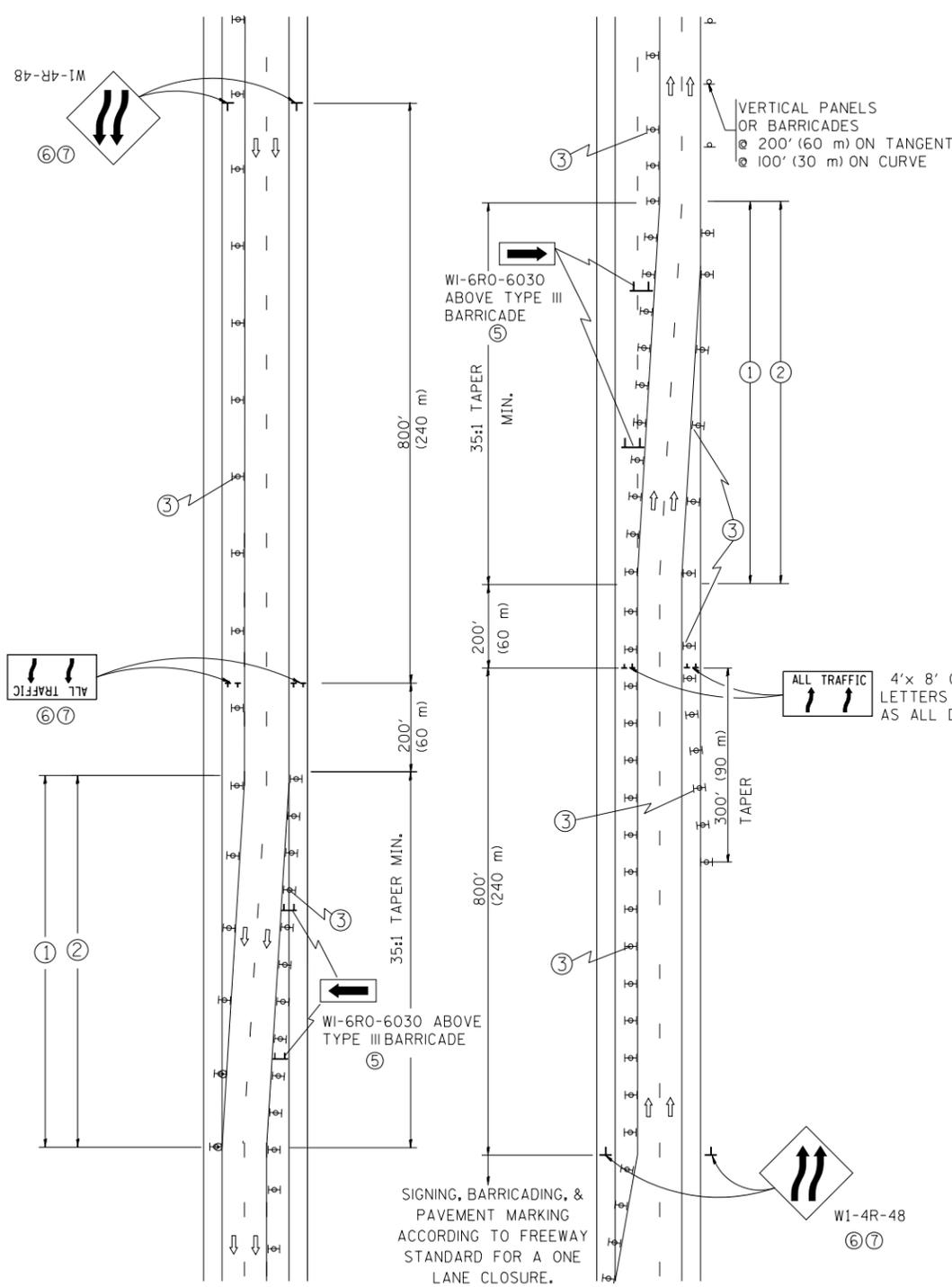
DISTRICT 1 STANDARD DETAILS			
TC-08			
SCALE: NONE	SHEET NO. 15 OF 22 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	356	323
TC-08			CONTRACT NO. 60W29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



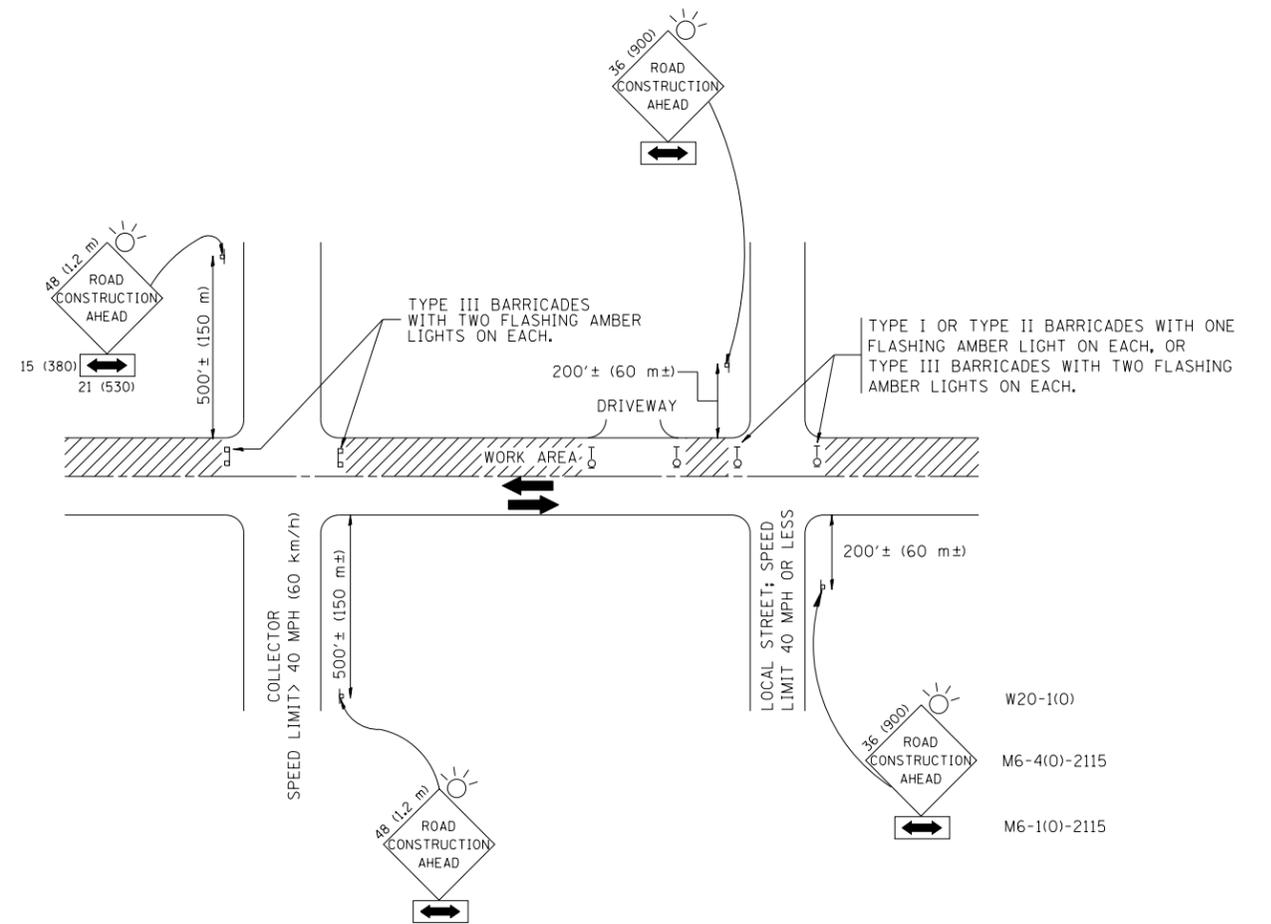
- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
 - WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
 - THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

W24-1-48
⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

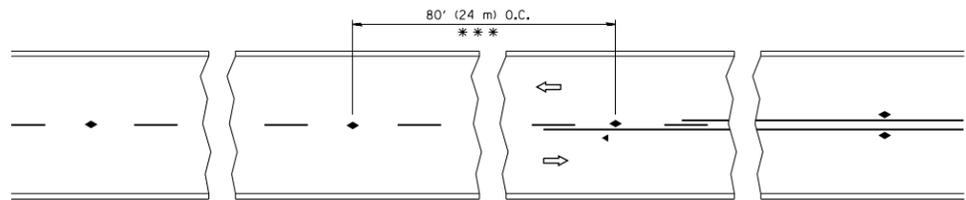
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pw:\388039-pwintl\ecomonline\local\PWAE	COM00\Documents\01 Americas\Transportation\606	PHASE II Circle\Phase II\000.CAD\006.Road	60W29
	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 10/28/2013	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
TC-10

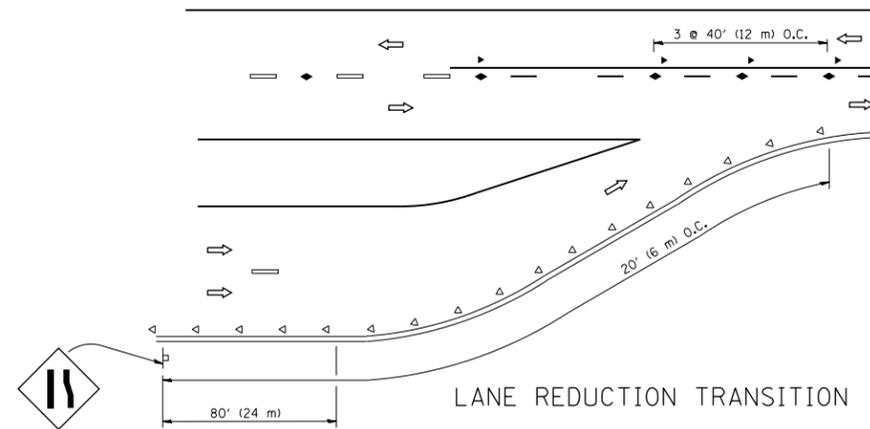
SCALE: NONE SHEET NO. 17 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2013-011R	COOK	356	325
TC-10			CONTRACT NO. 60W29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• 90/94/290				

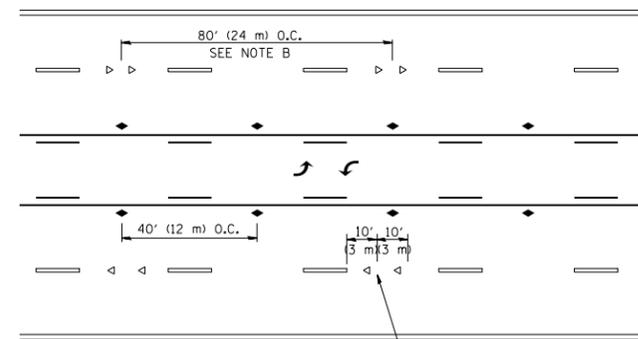


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

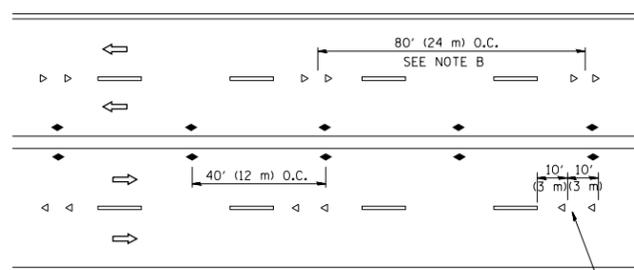
TWO-LANE/TWO-WAY



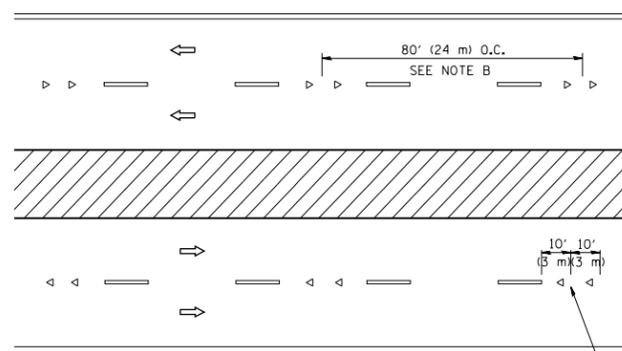
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

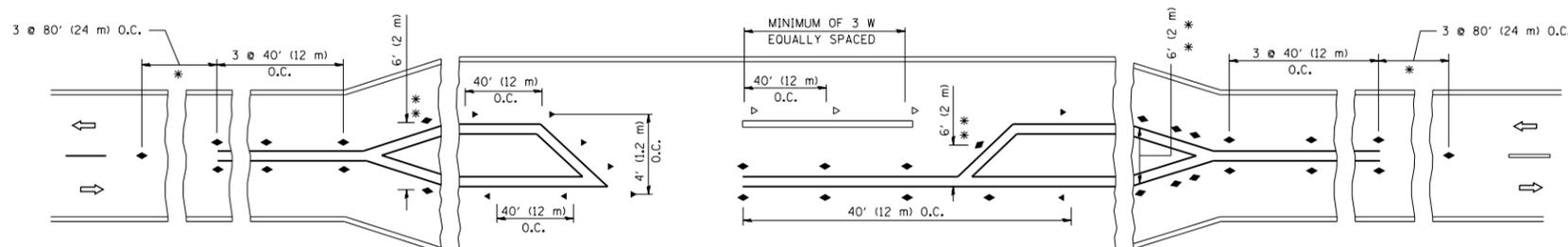
- YELLOW STRIPE
- WHITE STRIPE
- ◄ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



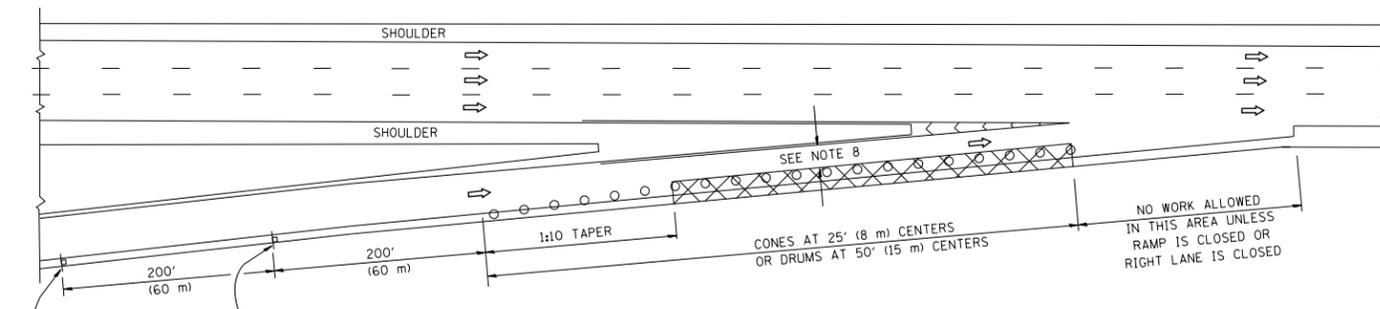
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

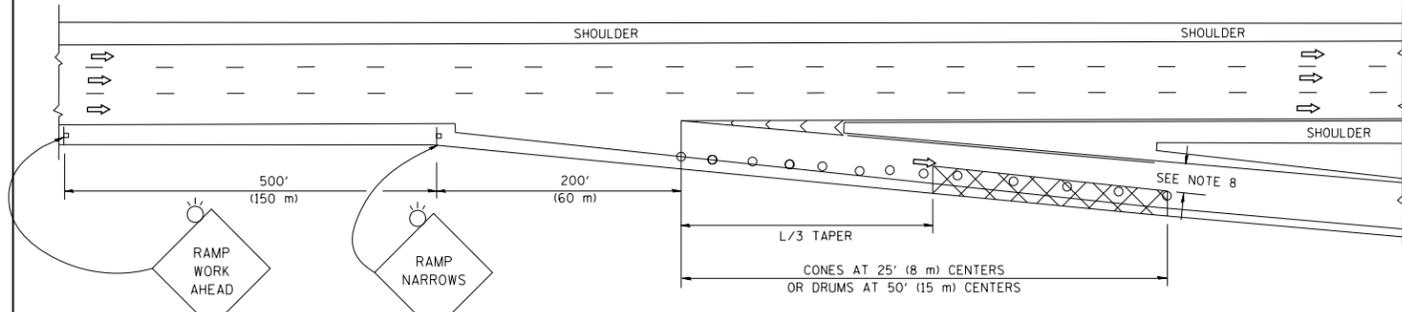
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = BAWtor.t	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD DETAILS TC-11			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.000' / in.					CHECKED -	REVISED - T. RAMMACHER 01-06-00	TC-11		2013-01R	COOK	356	326
PLOT DATE = 10/28/2013					DATE -	REVISED - C. JUCIUS 09-09-09	CONTRACT NO. 60W29		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			
					SCALE: NONE	SHEET NO. 18 OF 22 SHEETS	STA.	TO STA.		90/94/290		

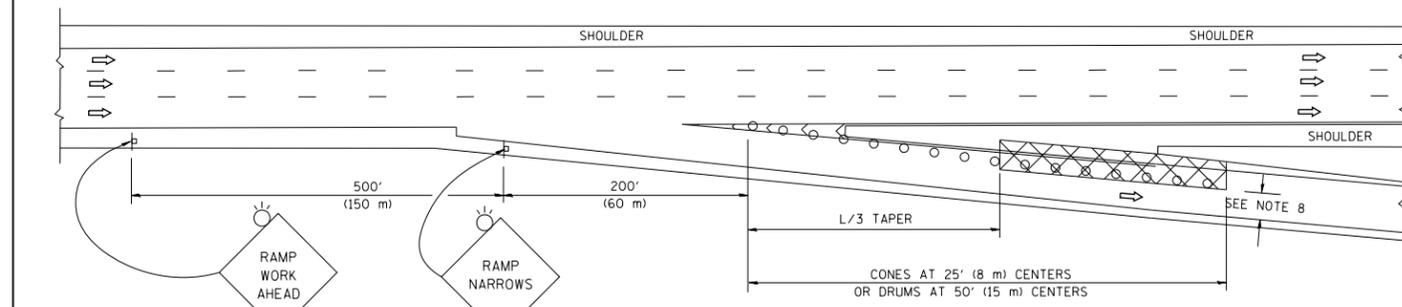
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

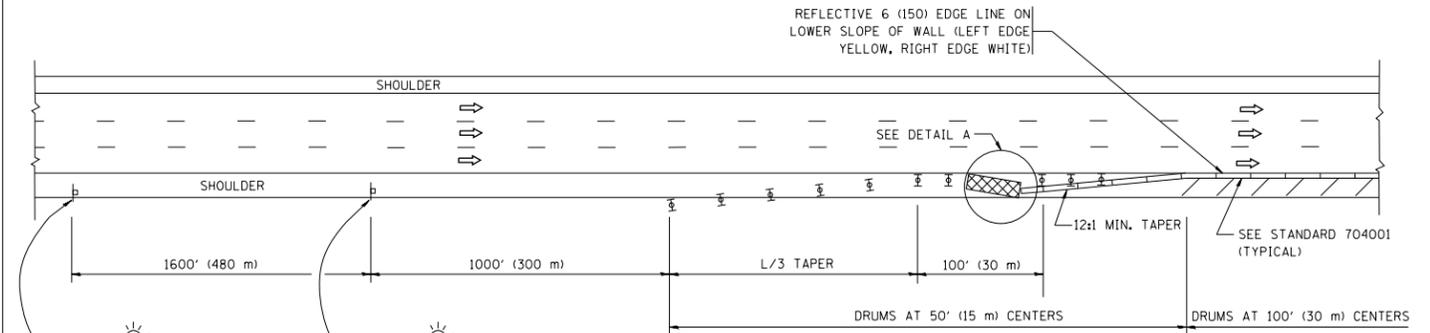
SYMBOLS

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

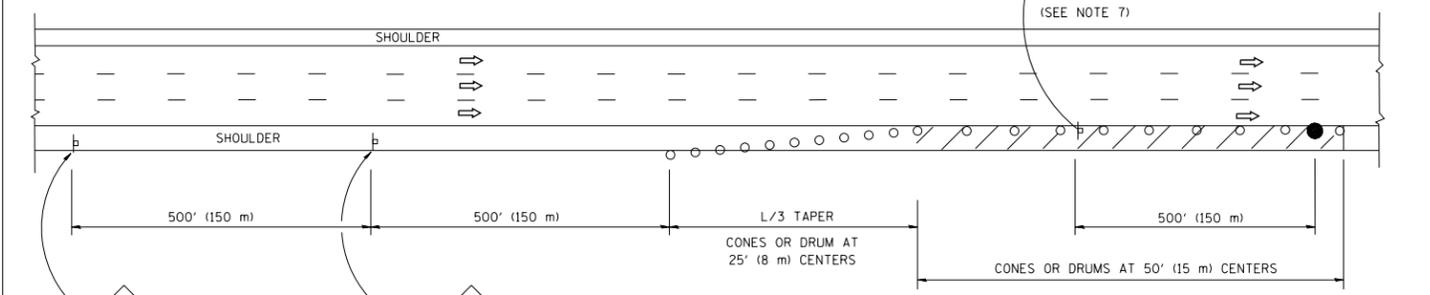
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 SPEED LIMIT FORMULAS
 45 mph (80 km/h) METRIC ENGLISH
 OR GREATER: L=0.65(W)(S) L=(W)(S)
 W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12" MIN. WIDTH TANGENT SECTION
 16" MIN. WIDTH CURVE SECTION

SHOULDER CLOSURE DETAILS

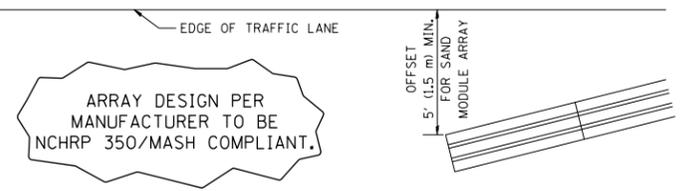


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



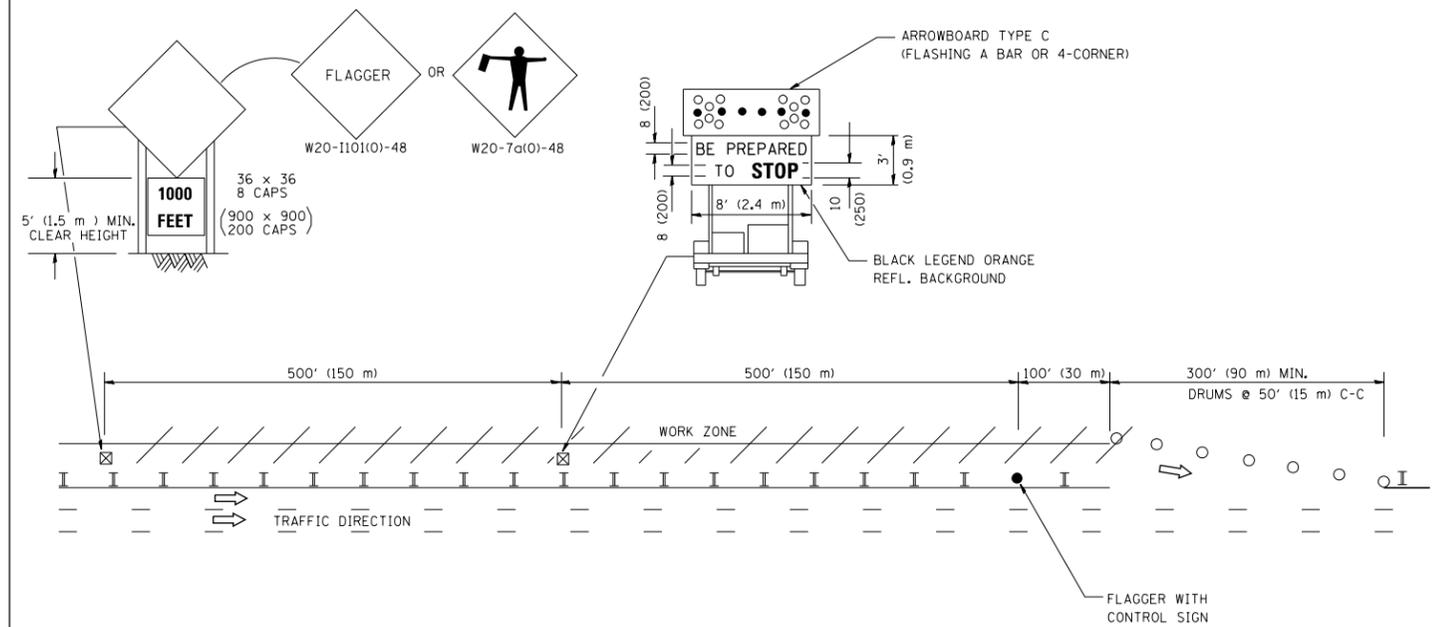
DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

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

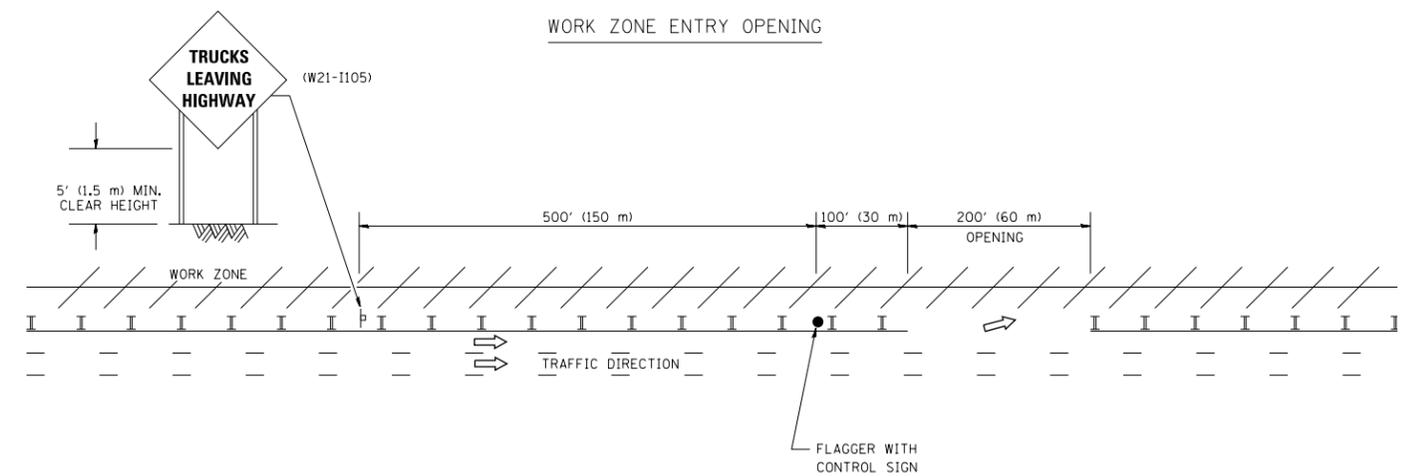
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	PLOT SCALE = 50.0000' / in.	DRAWN - D.W.S.	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2013-011R	COOK	356	329
	PLOT DATE = 7/1/2013	CHECKED -	REVISED - S.P.B. 12-09						TC-17		CONTRACT NO. 60W29	
		DATE - 11-96	REVISED - M.D. 06-13						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = BAWtor.t	DESIGNED -	REVISED - J.A.F. 04-03
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		DATE -	REVISED - S.P.B. 12-09

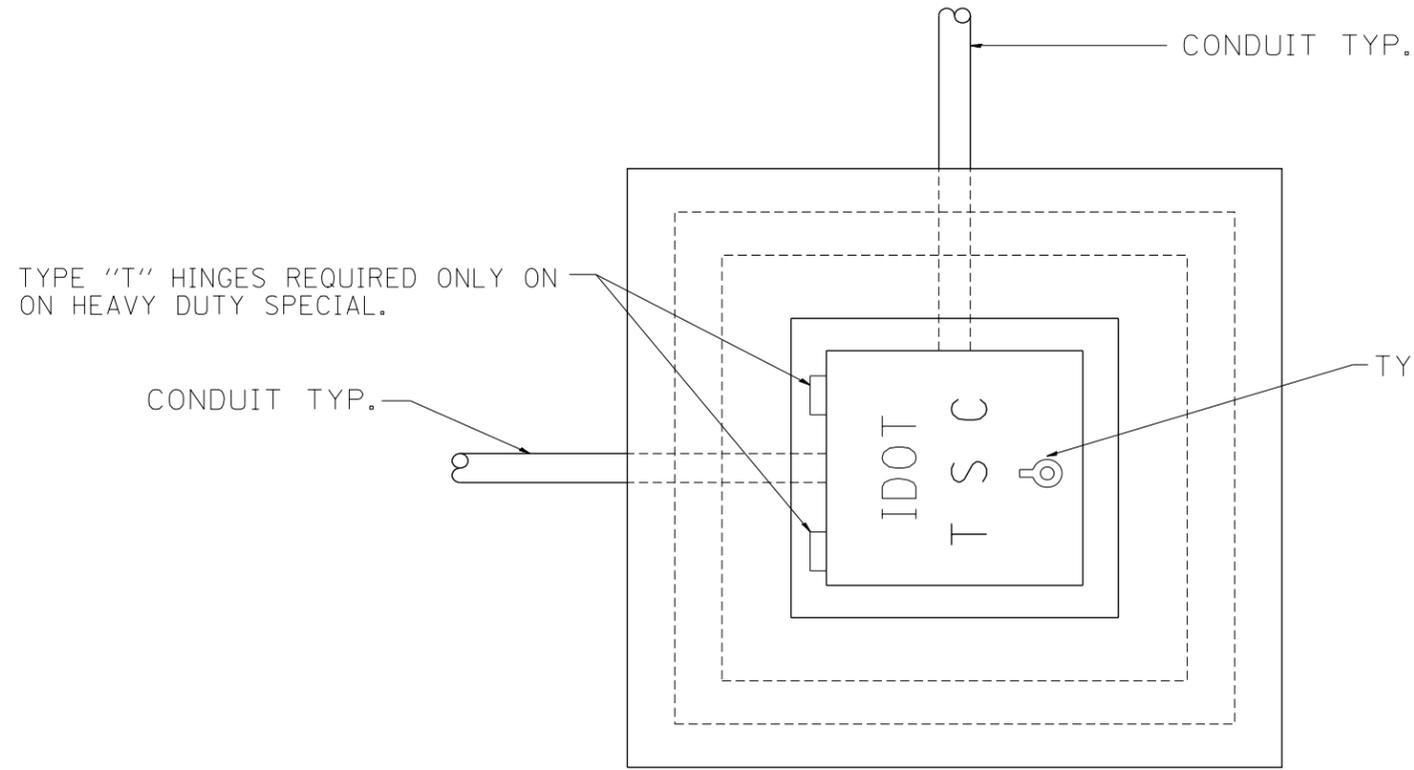
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
TC-18

SCALE: NONE SHEET NO. 22 OF 22 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-01R	COOK	356	330
TC-18			CONTRACT NO. 60W29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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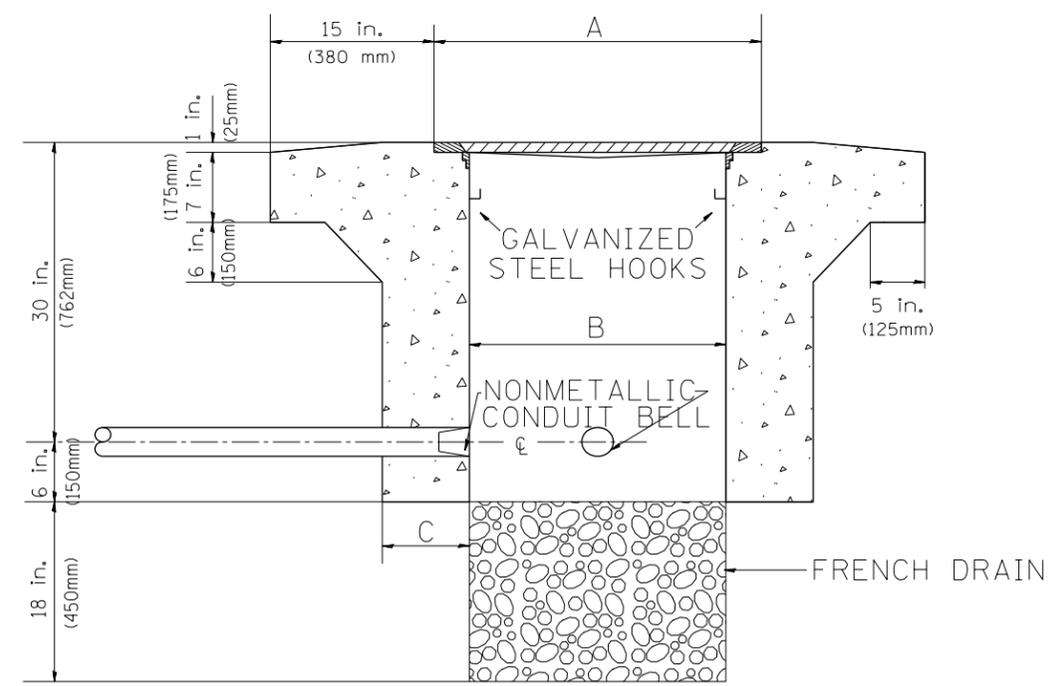


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

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

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



ELEVATION

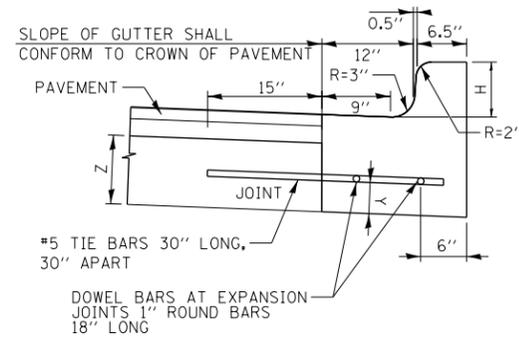
HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

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

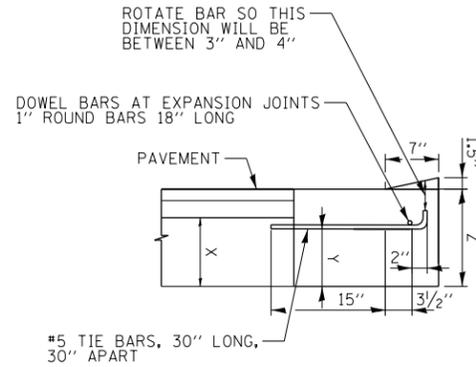
(FRAME AND COVER 405 LBS. (184 Kg. (405))

PC CONCRETE - HEAVY DUTY HAND HOLE

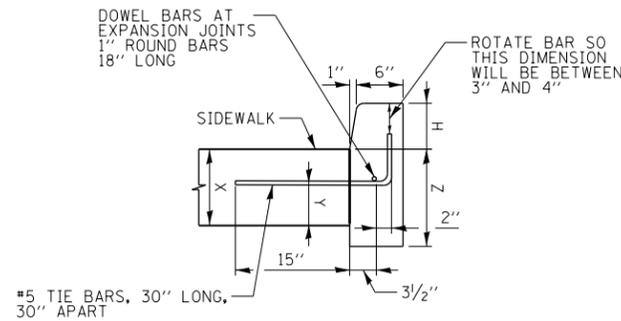
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PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED -	SCALE: NO SCALE			SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 10/28/2013	DATE - 09/11/96	REVISED -	CONTRACT NO. 60W29									
TRAFFIC SYSTEMS CENTER (TY-1TSC-400#15)												



**COMBINATION CURB AND GUTTER
TYPE B V.12 (CDOT)**



DEPRESSED CURB



BARRIER CURB

CONCRETE CURB, TYPE B (SPECIAL) (CDOT)

**DETAILS OF CONCRETE CURB, TYPE B (SPECIAL) (CDOT) AND
COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT)**

DEPRESSED CURB & GUTTER

DEPRESSED CURB AND GUTTER AND TRANSITIONS BETWEEN BARRIER CURB WILL BE PAID FOR UNDER THE ADJACENT CURB ITEM. DEPRESSED CURB AND MOUNTABLE GUTTER MUST MEET CDOT ADA STANDARDS.

JOINTS IN CURB, COMBINED CURB AND GUTTER

TRANSVERSE JOINTS OF A TYPE SIMILAR TO THAT USED IN THE ADJACENT PAVEMENT SHALL BE INSTALLED IN THE CURB, GUTTER AND COMBINED CURB & GUTTER IN PROLONGATION WITH THE JOINTS IN THE PAVEMENT. THE DETAILS OF THE TRANSVERSE JOINTS IN THE CURB, GUTTER AND COMBINED CURB & GUTTER SHALL BE APPROVED BY THE ENGINEER. CURB, GUTTER OR COMBINED CURB AND GUTTER IS CONSTRUCTED ADJACENT TO A FLEXIBLE BASE PAVEMENT, 1" THICK EXPANSION JOINTS COMPOSED OF BITUMINOUS PREFORMED JOINT FILLER SHALL BE INSTALLED IN THE CURB AND/OR GUTTER AT POINTS OF CURVATURE AND AT CONSTRUCTION JOINTS. CONTRACTION JOINTS SHALL ALSO BE PLACED BETWEEN THESE EXPANSION JOINTS AT DISTANCES NOT EXCEEDING 20 FEET. ALL TIE BARS SHALL BE DEFORMED - ALL DOWEL BARS SHALL BE SMOOTH. ALL TIE BARS AND DOWEL BARS TO BE EPOXY COATED.

JOINTS IN CURB, COMBINED CURB AND GUTTER

THE COST OF ALL JOINTS, INCLUDING LABOR, FURNISH AND PLACING OF STEEL, JOINT FILLER, SEALANT, AND ALL OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURB, TYPE B (SPECIAL) (CDOT), AND COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT) ITEMS. SAWCUTTING AND FURNISHING AND INSTALLING CURB ANCHORS, DOWELS, AND TIE BARS SHALL ALSO BE INCIDENTAL TO THESE ITEMS.

NOTE:

- H = VARIABLE, MINIMUM 3" AND NOT TO EXCEED 9" (SEE PLANS)
- X = THICKNESS OF PAVEMENT
- Y = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT OR CONCRETE BASE
- Z = 10" OR THICKNESS OF PAVEMENT - WHICHEVER IS GREATER

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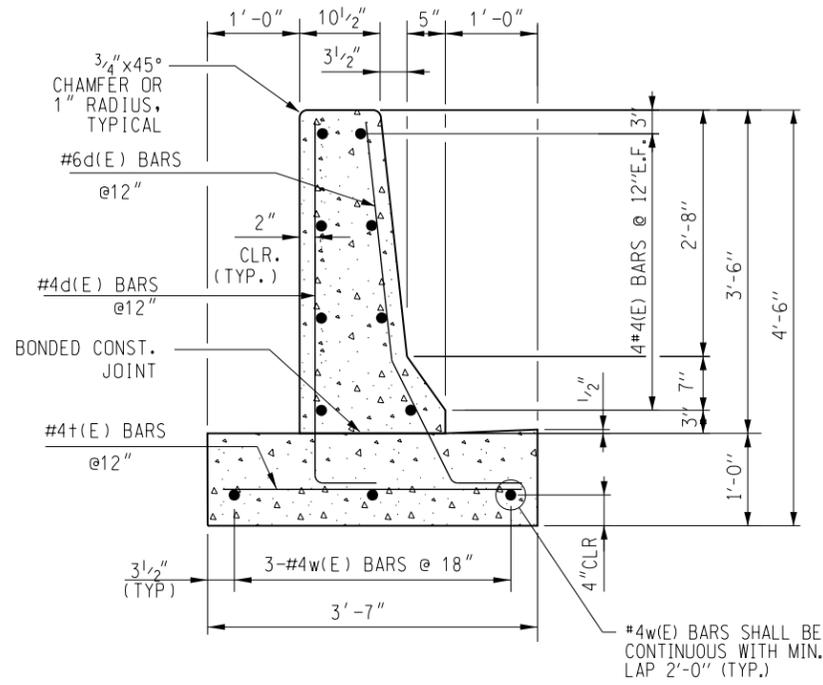
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

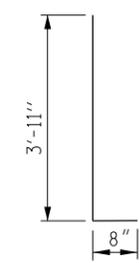
ROADWAY DETAILS			
COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT) AND CONCRETE CURB, TYPE B (SPECIAL) (CDOT)			
SCALE: NONE	SHEET 1	OF 5 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	332
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	

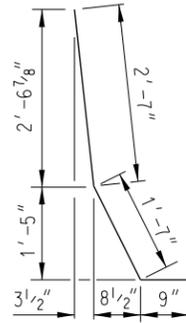
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CONCRETE BARRIER WALL (SPECIAL)



#4d(E) BAR

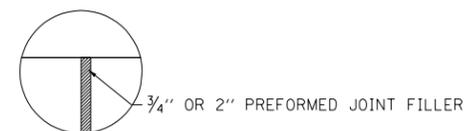


#6d(E) BAR

BENDING DIAGRAMS

NOTES:

1. TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
2. 1" DEEP CONTRACTION JOINTS SHALL BE CONSTRUCTED IN BOTH THE REINFORCED CONCRETE BARRIER WALL AND BASE.
3. THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SAWING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
4. REINFORCING BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
5. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
6. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
7. BARRIER SHALL BE USED WITH ALL NEW CONSTRUCTION, OR RECONSTRUCTION OF EXISTING BARRIERS.



DETAIL "A"



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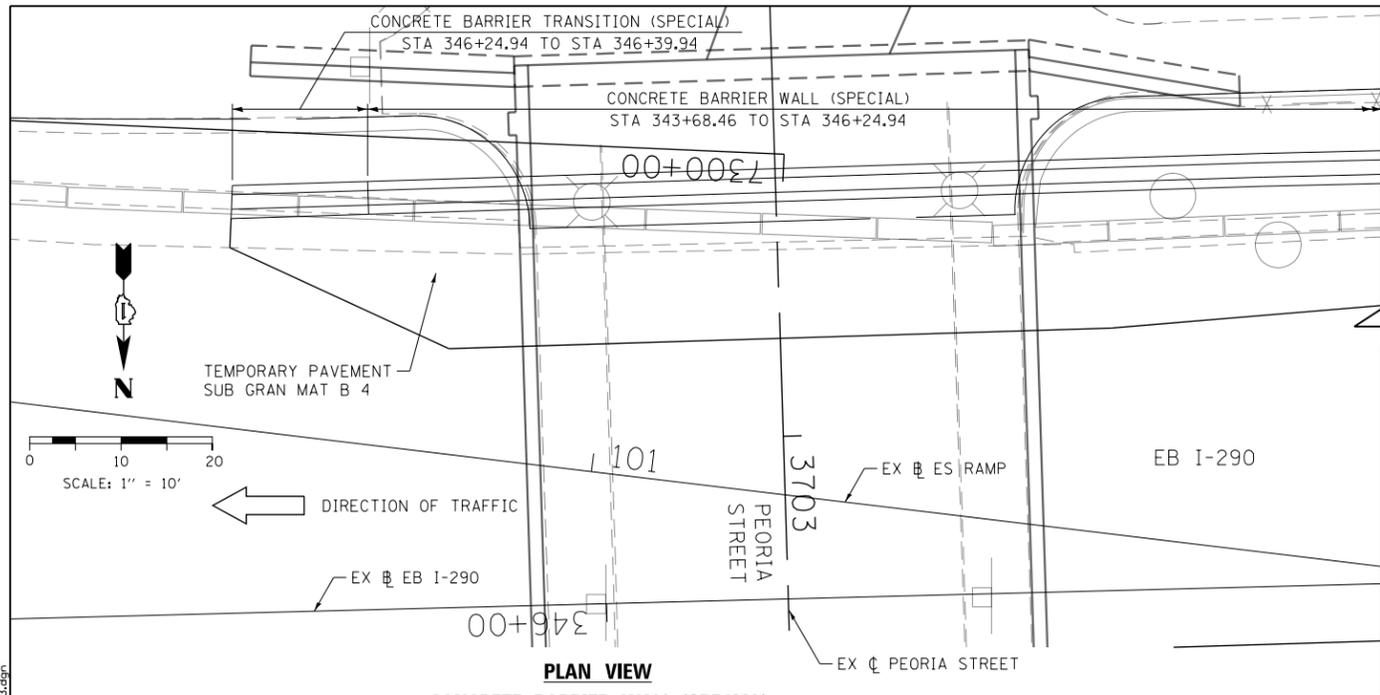
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS
CONCRETE BARRIER WALL (SPECIAL)**

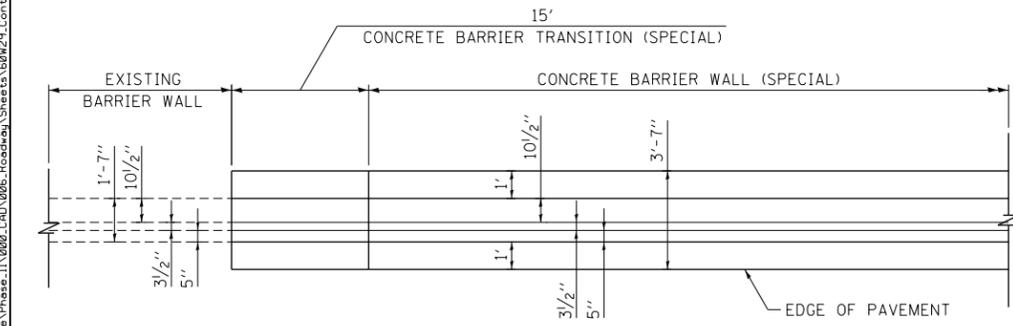
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	333
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	

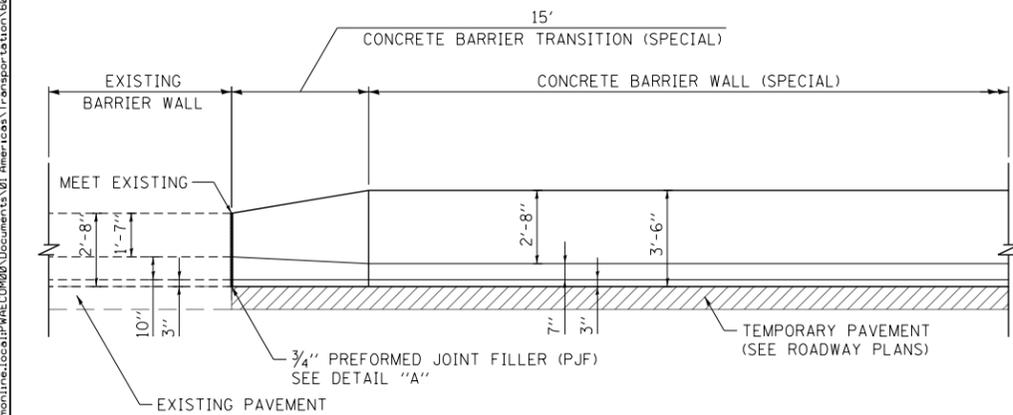
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PLAN VIEW
CONCRETE BARRIER WALL (SPECIAL)
AT EB I-290



PLAN VIEW
N.T.S.



ELEVATION VIEW
N.T.S.



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PLOT SCALE = 20.0000' / in.
PLOT DATE = 10/28/2013

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DRAWN - XXX
CHECKED - XXX
DATE - 10/30/2013

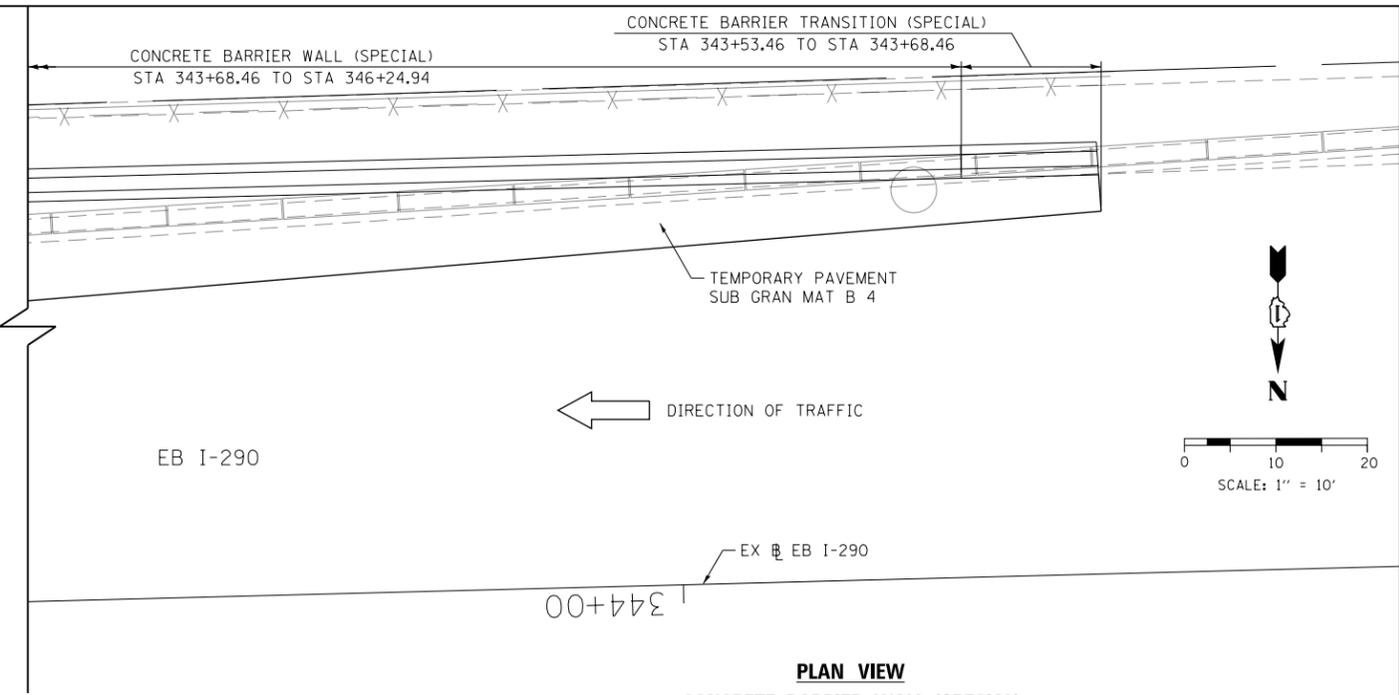
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

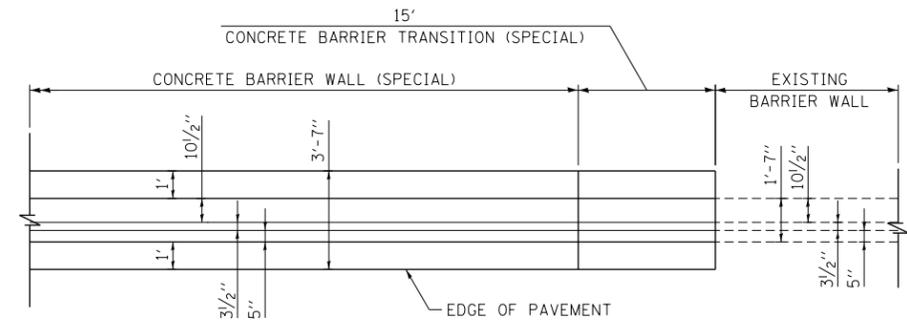
ROADWAY DETAILS

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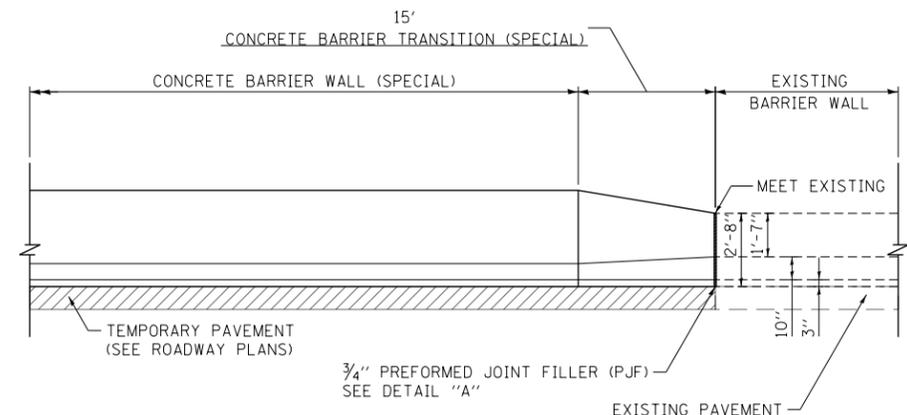
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	334
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	



PLAN VIEW
CONCRETE BARRIER WALL (SPECIAL)
AT EB I-290



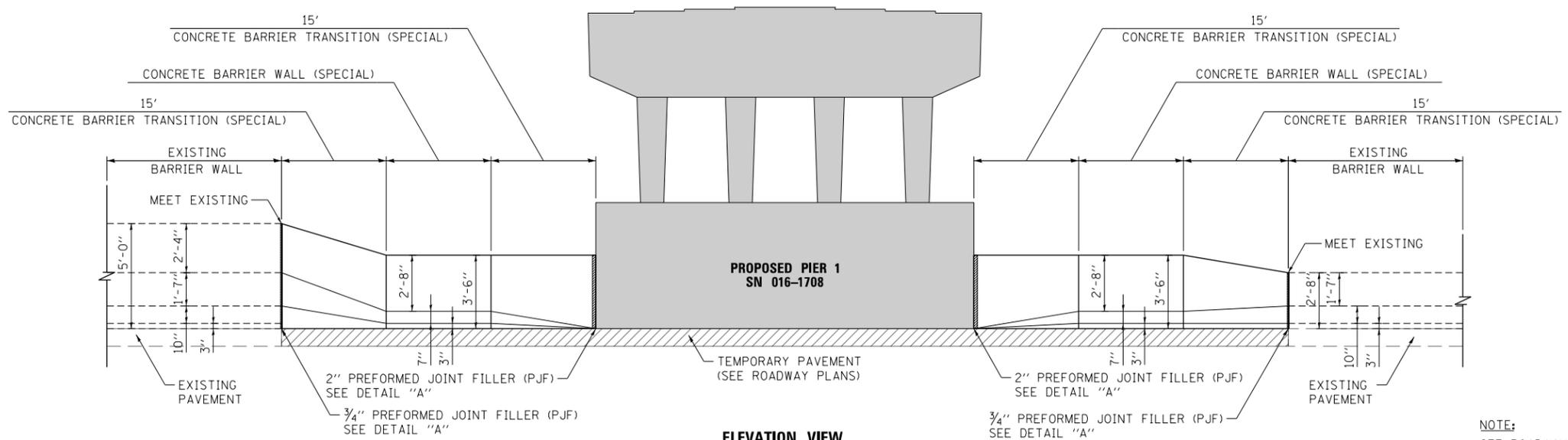
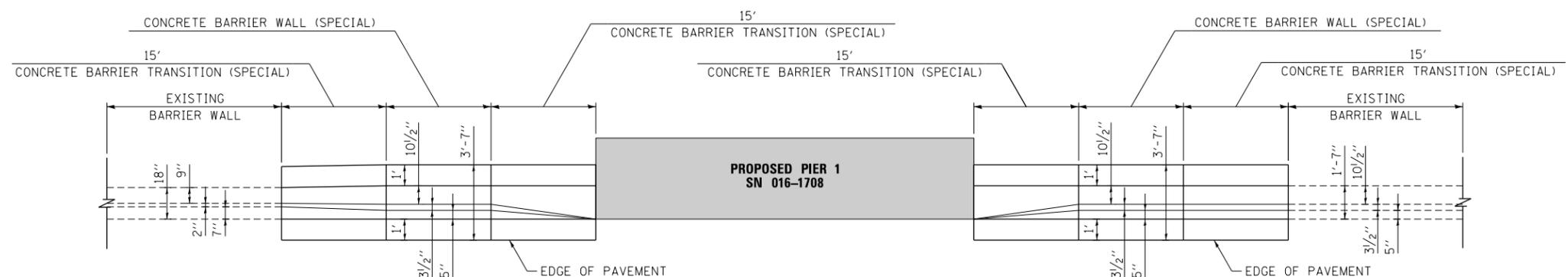
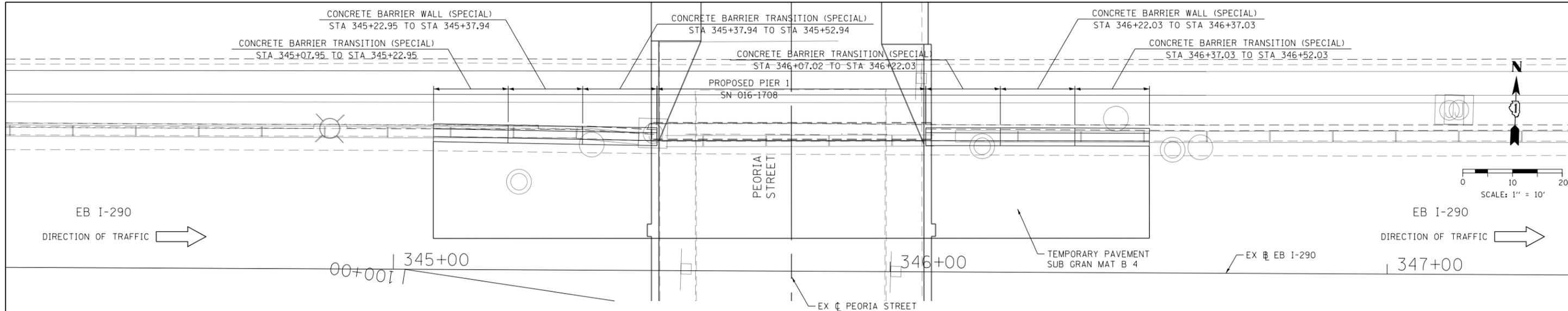
PLAN VIEW
N.T.S.



ELEVATION VIEW
N.T.S.

NOTES:

- EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER SHALL MEET AASHTO DESIGNATION M-33.
- ALL WORK DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
- PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION.
- JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
- TWO VERTICAL EPOXY COATED, NO. 8 TIE BARS, 10" LONG, SHALL BE PLACED STAGGERED FRONT TO BACK OF THE BARRIER WALL AT 48" CENTERS ALONG THE CONCRETE BARRIER TRANSITION. TIE BARS SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER TRANSITION.
- HORIZONTAL TIE BARS SHALL BE NO. 6 EPOXY COATED, 24" LONG, 24" C-C AND SHALL BE INCLUDED IN THE COST OF THE BARRIER BASE.
- SEE ROADWAY DETAILS SHEETS 1 AND 2 FOR ADDITIONAL DETAILS.
- SEE TYPICAL SECTION SHEET 3 FOR TEMPORARY PAVEMENT DETAILS.



NOTE:
 SEE ROADWAY DETAILS SHEET 1 FOR ADDITIONAL NOTES.

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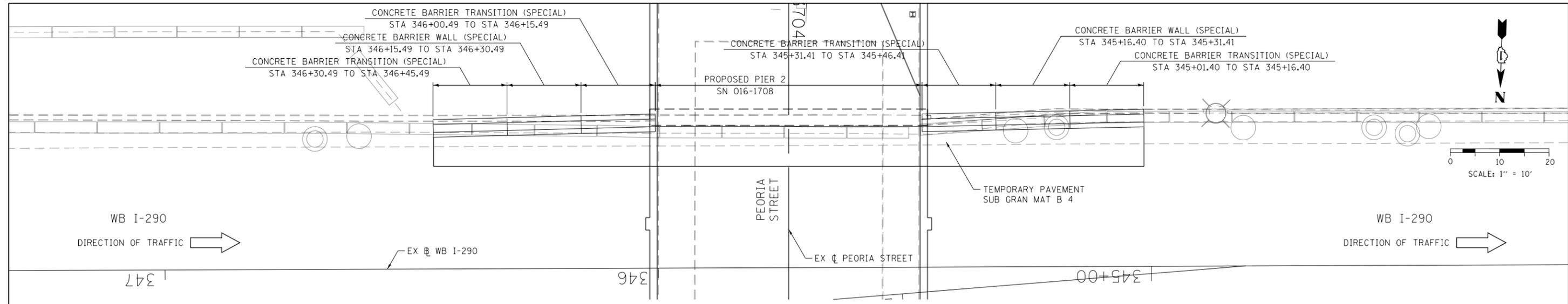


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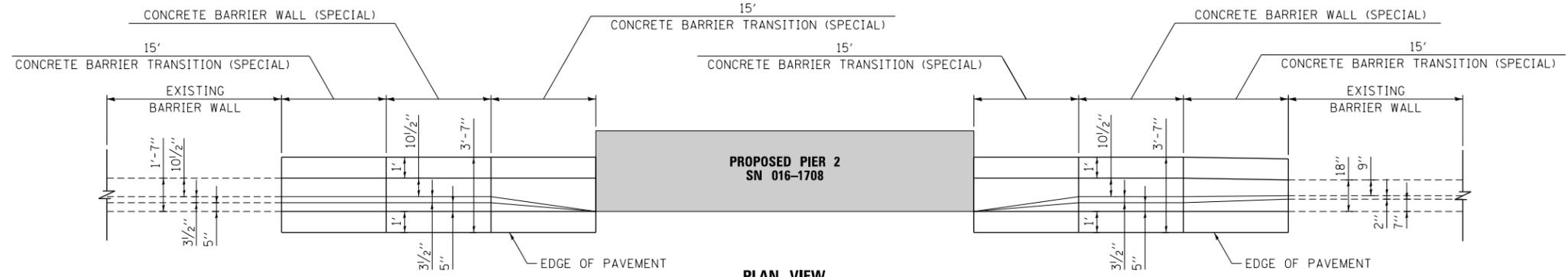
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS			
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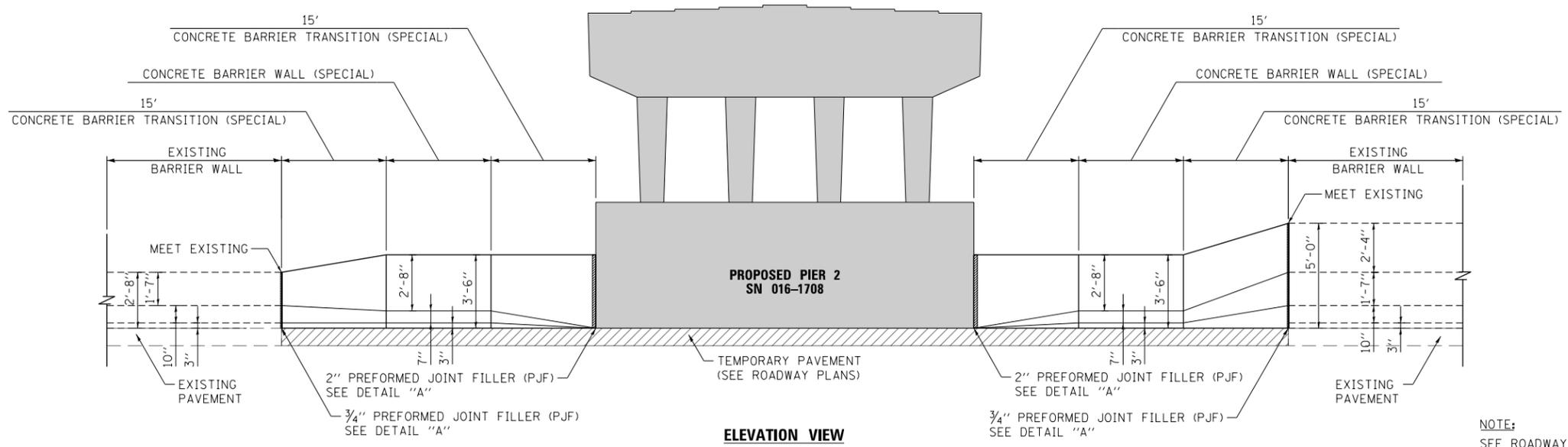
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90/94/290	2013-011R	COOK	356	335
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				



**PLAN VIEW
CONCRETE BARRIER WALL (SPECIAL)
AT WB I-290**



**PLAN VIEW
N.T.S.**



**ELEVATION VIEW
N.T.S.**

NOTE:
SEE ROADWAY DETAILS SHEET 1 FOR ADDITIONAL NOTES.

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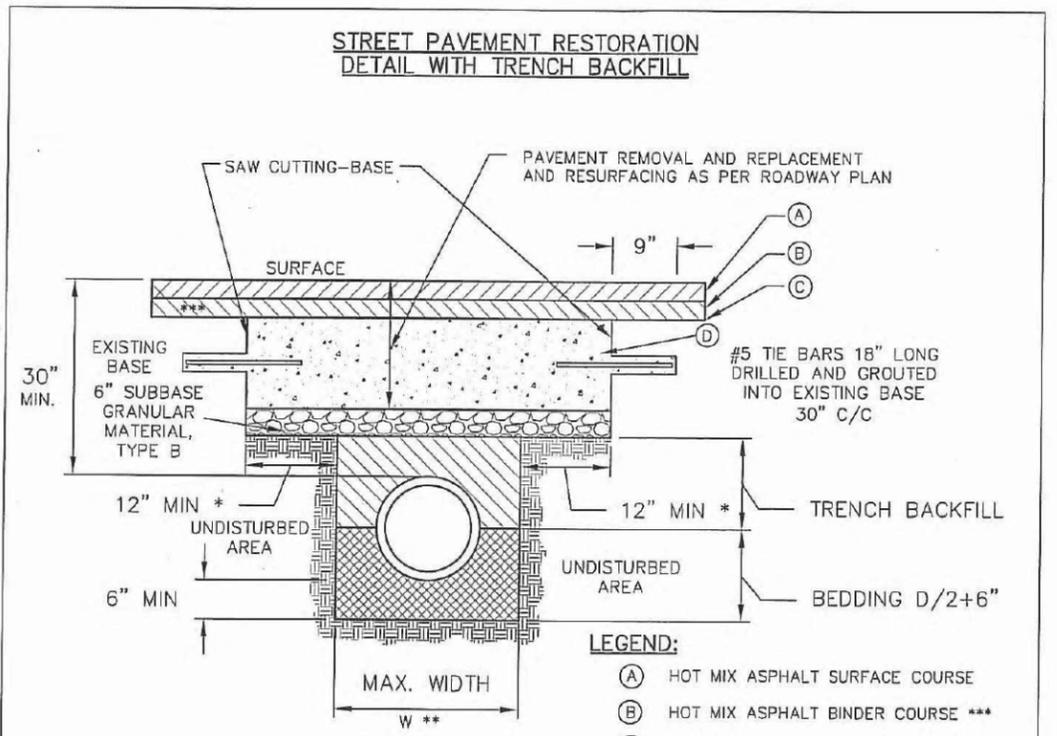
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS			
SCALE: NONE	SHEET 5	OF 5 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	336
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

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- LEGEND:**
- (A) HOT MIX ASPHALT SURFACE COURSE
 - (B) HOT MIX ASPHALT BINDER COURSE ***
 - (C) BITUMINOUS MATERIAL & AGGREGATE (PRIME COAT)
 - (D) P.C. CONCRETE BASE COURSE

* PAVEMENT SHALL BE REMOVED TO NEAREST CONSTRUCTION JOINT IF TRENCH EDGE IS 2' OR LESS FROM JOINT. (OR AS REQUIRED BY THE COMMISSIONER)

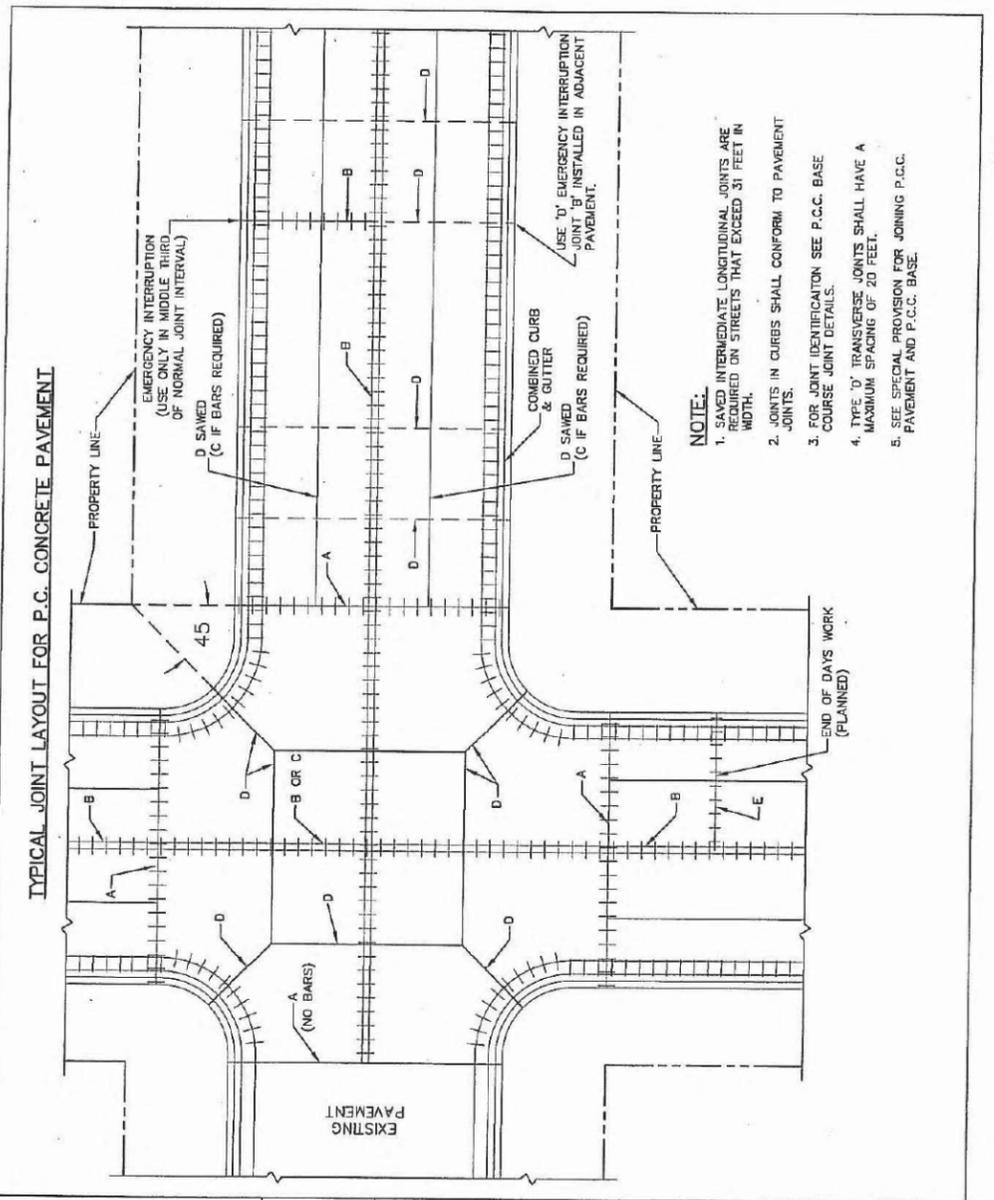
** W = 9" + O.D. + 9", WHEN TRENCH DEPTH ≤ 5 FT.
W = 18" + O.D. + 18", WHEN TRENCH DEPTH > 5 FT.

*** FOR PATCHES LESS THAN 6 FT. WIDE OR AREA LESS THAN 200 SQ. FT., HOT MIX ASPHALT BINDER COURSE MAY BE ELIMINATED PROVIDED THE P.C.C. BASE COURSE THICKNESS IS INCREASED PROPORTIONALLY.

NOTE: ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED (INCIDENTAL).

- NOTES:**
1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 9" OR MORE INCHES. FOR CONCRETE STREETS THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING 1'-0" OVERLAP) AND FINISHED AS REQUIRED IN SSRBC.
 2. ALL EXISTING PAVEMENTS SHALL BE SAW CUT 1'-0" ON EITHER SIDE OF THE TRENCH OR PAVEMENT OPENING. UNDER NO CIRCUMSTANCES SHOULD EXISTING PAVEMENT, WHICH HAS BEEN UNDERMINED OR OTHERWISE DISTURBED, BE LEFT IN PLACE AND NOT RESTORED.
 3. ALL STREET PAVEMENT WILL REQUIRE PLACEMENT OF #5 TIE BARS, 18 INCHES LONG DRILLED AND GROUTED (NON SHRINK) AT 30" CENTERS ON ALL SIDES. A MINIMUM OF TWO TIE BARS WILL BE REQUIRED ON EACH SIDE OF SAW CUT BOUNDARIES.

CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	-	-	STREET PAVEMENT RESTORATION DETAIL WITH TRENCH BACKFILL		
	DATE	SHEET	DRAWN BY		
	12/12/06	A-2-2A	CDOT		



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

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

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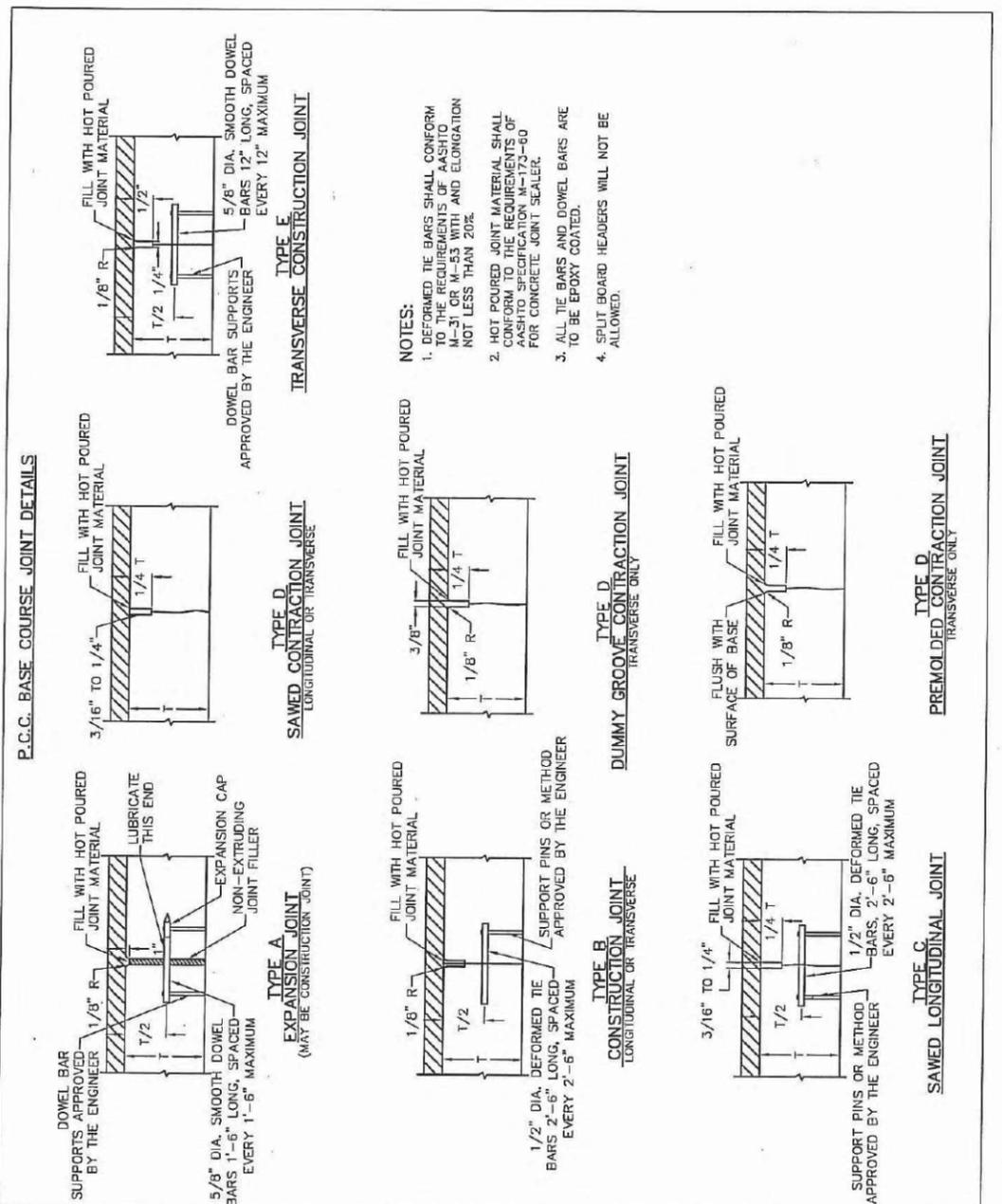
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION
STANDARD CONSTRUCTION DETAILS A-2-2A & A-2-23A

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	337
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

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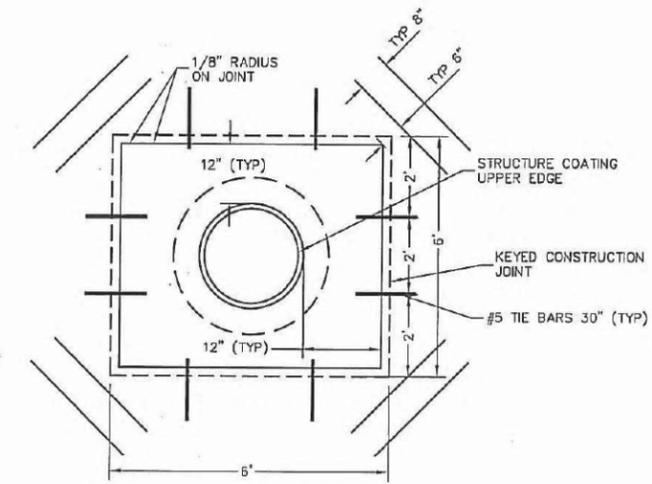


- NOTES:**
1. DEFORMED TIE BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 WITH AN ELONGATION NOT LESS THAN 20%.
 2. HOT POURED JOINT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-173-80 FOR CONCRETE JOINT SEALER.
 3. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED.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

	DATE	REVISION	CITY OF CHICAGO		
	-	-	P.C.C. BASE COURSE JOINT DETAILS		
	DATE	SHEET	DRAWN BY		
	12/27/06	A-2-3C	CDOT		

DETAIL OF STRUCTURE CASTING ISOLATION BOX FOR P.C.C. PAVEMENT AND P.C.C. BASE COURSE

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



SPECIAL CONDITIONS:

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

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

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

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

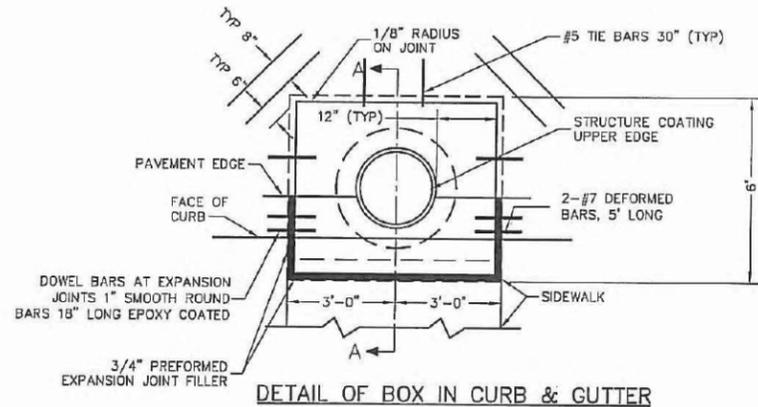
CHICAGO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DETAILS A-2-3C & A-2-12A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	338
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

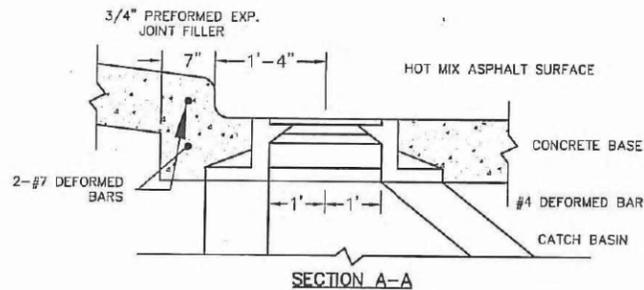
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DETAIL OF STRUCTURE CASTING ISOLATION BOX FOR P.C.C. PAVEMENT AND BASE COURSE



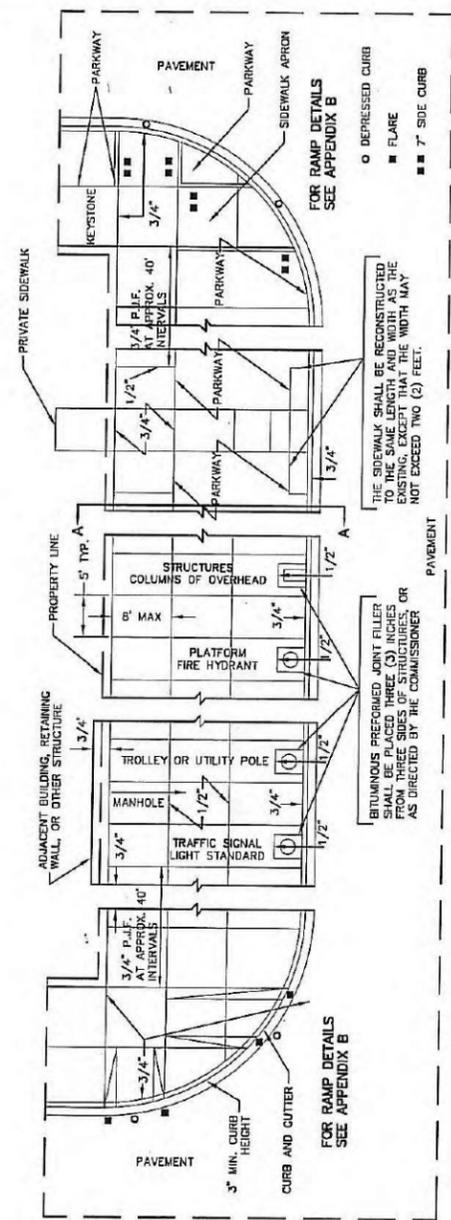
NOTES:

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



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

DETAILS OF PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION



DATE	REVISION	CITY OF CHICAGO		
-	-	P.C. CONCRETE SIDEWALK JOINT DETAILS		
12/22/06		DATE	SHEET A-3-2	DRAWN BY CDOT



D160W29-Sht-CDOT-DETAIL-03.dgn	DESIGNED - CDOT	REVISED -
USER NAME = BAW1tor1	DRAWN - CDOT	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - CDOT	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DETAILS A-2-12B & A-3-2

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-011R	COUNTY COOK	TOTAL SHEETS 356	SHEET NO. 339
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	

**SPECIFICATIONS FOR TUNNELING OR TRENCHING NEAR TREES FOR THE
INSTALLATION OF UNDERGROUND UTILITY SERVICES**

TREE DIAMETER	DISTANCE OF TUNNEL FROM TREE TRUNK	DISTANCE OF OPEN BYPASS TRENCH FROM TREE TRUNK
INCHES	FEET	FEET
2	2	3
3	3	5
6	5*	10
12	6*	12
18	7*	14
24+	8*	16

* DEPENDENT ON PARKWAY WIDTH

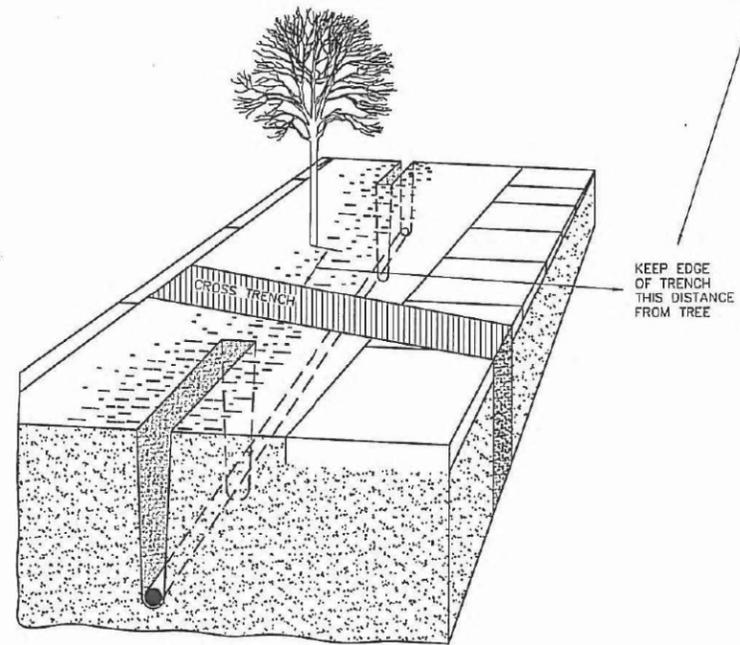


DIAGRAM ILLUSTRATING THE USE OF SOIL AUGERS IN THE PRESENCE OF TREES.

CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	—	—	TRENCH GUIDELINES ADJACENT TO TREES		
	DATE	SHEET	DRAWN BY		
	01/11/2007	A-5-3	CDOT		

GENERAL NOTES

- TEMPORARY WALKWAY MAY ENCRUSCH ON AN EXISTING PARKING LANE. IF THE ENCRUSCHMENT IS NEAR A DRIVEWAY OR SIDEWALK, THE DRIVEWAY SHALL BE CLOSED IN ACCORDANCE WITH APPROPRIATE LANE CLOSURE DETAILS PERMIT REQUIRED.
- THE SIDEWALK CLOSED / USE OTHER SIDE SIGN SHALL BE PLACED AT THE NEAREST CROSSWALK OR INTERSECTION TO EACH END OF THE CLOSURE. WHEN THE CLOSURE OCCURS AT A CORNER, THE SIGNS SHALL BE ERRECTED AT THE CORNER. THE SIGNS SHALL BE ERRECTED AT THE ENDS OF THE CLOSURE. THE SIDEWALK CLOSED SIGNS SHALL BE USED AT THE ENDS OF THE TYPICAL CLOSURES.
- ALL WALKWAYS SHALL BE CLEARLY IDENTIFIED, PROTECTED FROM MOTOR VEHICLE TRAFFIC AND FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC.
- ALL HAZARDS (DITCHES, TRENCHES, EXCAVATIONS, ETC.) NEAR OR ADJACENT TO WALKWAYS SHALL BE ALREADY DELINEATED.
- TYPE III BARRIADOS AND R11-2-4000 SIGNS SHALL BE POSITIONED AS SHOWN IN ROAD CLOSED TO ALL TRAFFIC DETAIL ON HIGHWAY STANDARD 229E.
- WHEN THE POSTED SPEED LIMIT IS 35 M.P.H. OR MORE, ALL WARNING SIGNS SHALL HAVE A MINIMUM DIMENSION OF 48 IN. OR MORE. WHEN THE POSTED SPEED LIMIT IS 30 M.P.H. OR LESS, ALL WARNING SIGNS SHALL HAVE A MINIMUM DIMENSION OF 36 IN. BY 36 IN.
- WHEN THE EXISTING PEDESTRIAN ACCESS ROUTE IS BLOCKED BY CONSTRUCTION, ALTERATION, MAINTENANCE, OR OTHER TEMPORARY CONDITIONS, AN ALTERNATE PEDESTRIAN ACCESS ROUTE COMPLYING TO THE REQUIREMENTS OF THE ADA SHALL BE PROVIDED. THE ALTERNATE ROUTE SHALL BE AS IDENTIFIED IN THE PERMIT, IF FEASIBLE WITH APPROXIM 6' ADA STANDARDS SHALL BE MAINTAINED.
- BARRIADOS WITHIN THE PEDESTRIAN ACCESS ROUTE SHALL HAVE A SOLID CONTINUOUS BOTTOM RAIL BETWEEN 4' AND 12' IN HEIGHT.

SYMBOLS

- WORK AREA
- CONCRETE BARRIER WALL MUST BE INSTALLED WITH TERMINAL SECTION.
- SIGN ON PORTABLE OR PERMANENT SUPPORT.
- BARRIADOS OR DRAIN WITH FLASHING LIGHT.

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

DATE	REVISION	CITY OF CHICAGO		
—	—	CROSSWALK AND SIDEWALK CLOSURE		
DATE	SHEET	DRAWN BY		
01/23/07	A-6-11	CDOT		



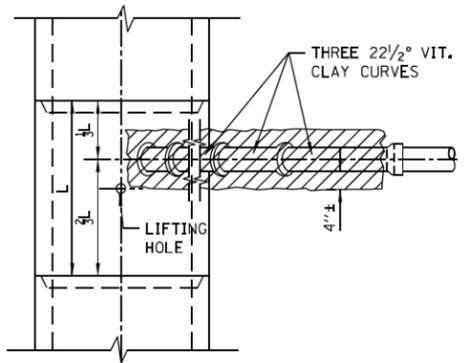
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PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

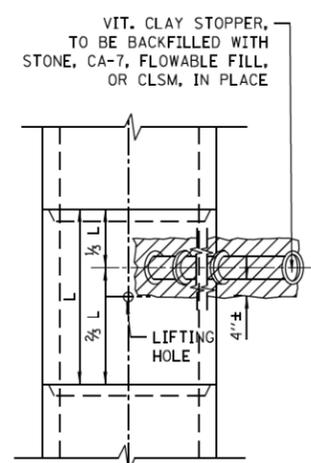
**CHICAGO DEPARTMENT OF TRANSPORTATION
STANDARD CONSTRUCTION DETAILS A-5-3 & A-6-11**

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

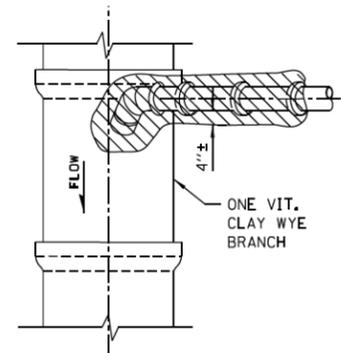
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	340
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				



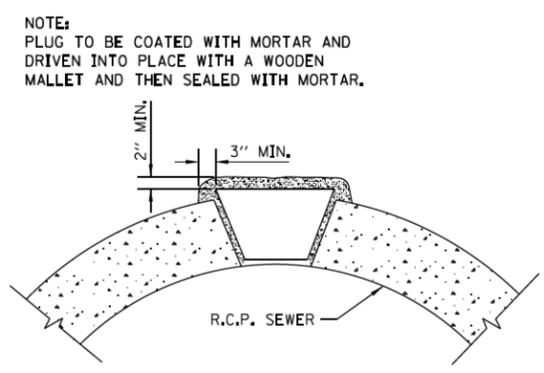
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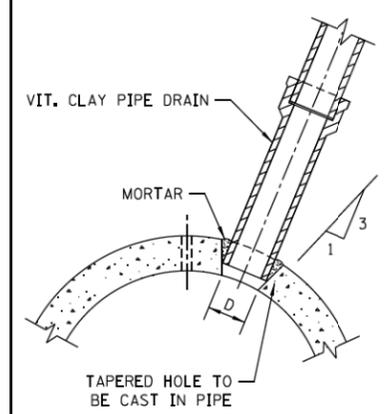
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PLAN

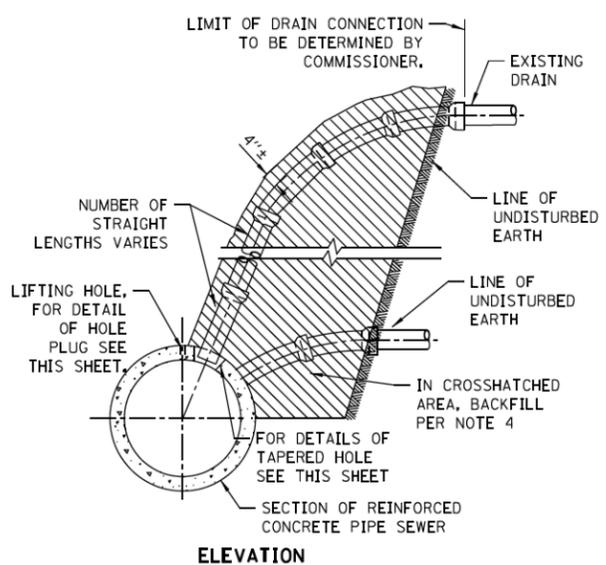


LIFTING HOLE PLUG DETAIL FOR CONCRETE PIPE

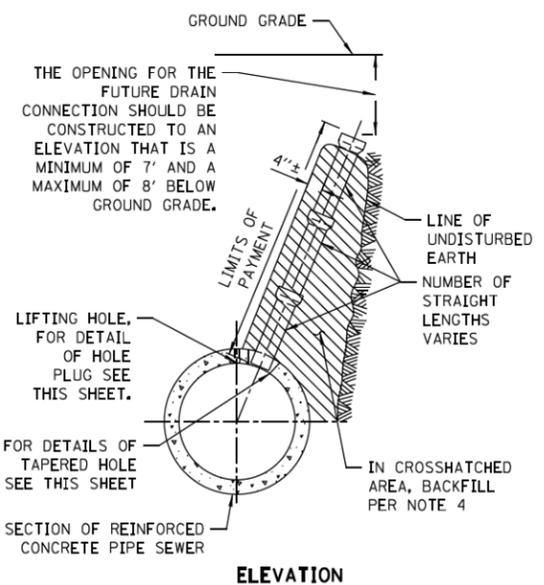


DETAIL OF TAPERED HOLE

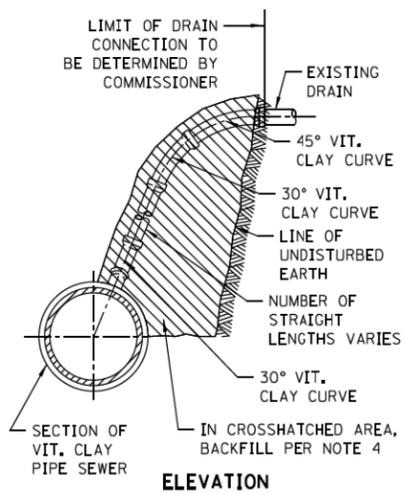
SIZE OF DRAIN	"D"
6"	6 7/8"
8"	9 1/8"
10"	11 1/8"
12"	13 1/2"
15"	17"
18"	20 1/4"
21"	23 3/8"
24"	27 1/4"



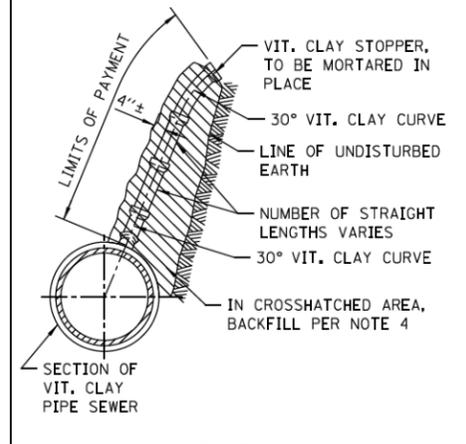
TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



TYPICAL DRAIN STACKS FOR FUTURE USE

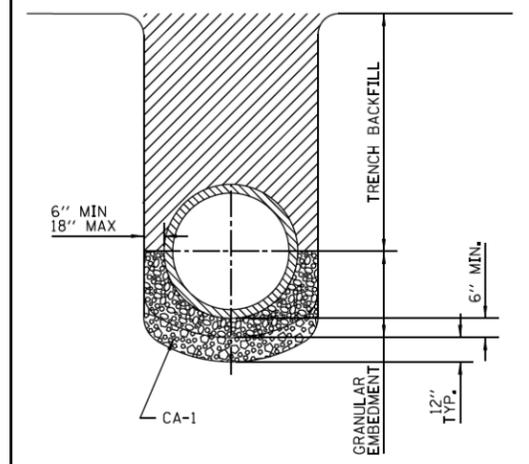


TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



TYPICAL DRAIN STACKS FOR FUTURE USE

NOTE: GRANULAR MATERIAL WILL BE USED AS BEDDING FOR ALL PIPE SEWERS: SEE SPECIFICATIONS, BOOK 3,



DETAIL OF GRANULAR EMBEDMENT AND STABILIZATION FOR PIPE SEWERS

NOTES: FOR STABILIZATION OF TRENCH BOTTOM AND PROVISIONS RELATING TO TRENCH BOX SUPPORT SEE SPECIFICATIONS, BOOK 3

- NOTES:
1. ALL DRAIN CONNECTION JOINTS MUST BE MADE AS SPECIFIED IN SPECIFICATIONS..
 2. FOR DUCTILE IRON PIPE DRAIN CONNECTIONS SEE SHEET NO. A.2.
 3. FOR ALL GRANULAR EMBANKMENT, USE CA-7 OR CA-11
 4. FOR BACKFILL OF MATCHED SUPPORT AREAS, USE CONCRETE, CA-11, FLOWABLE FILL, OR CLSM.

STANDARD REVISIONS	
DATE	DESCRIPTION
6/25/10	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

DRAWN: SBE
DESIGNED: SBE
CHECKED: SBE
REVIEWED: SBE

A.1

OF

PN



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USER NAME = BAW1tor1	DRAWN - CDWM	REVISED -
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PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

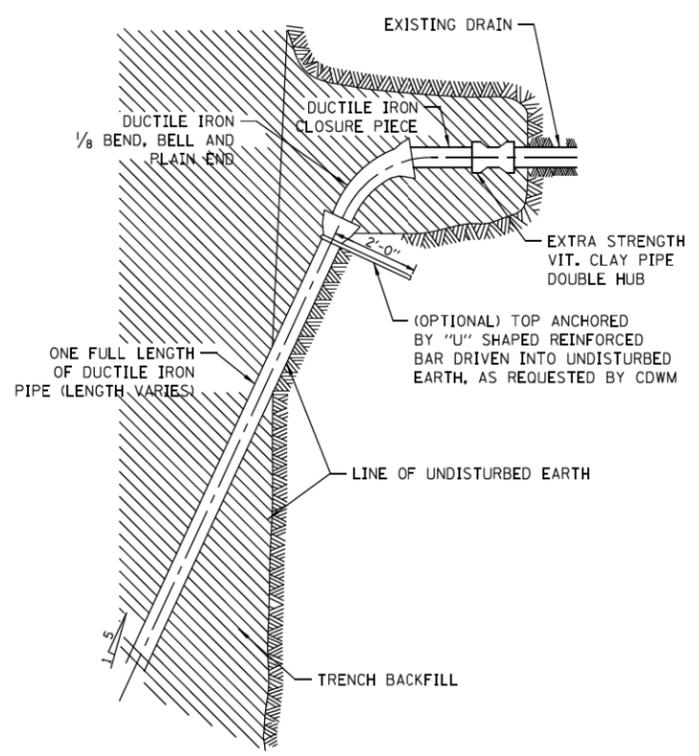
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS A.1

SCALE: NONE SHEET 1 OF 6 SHEETS STA. TO STA.

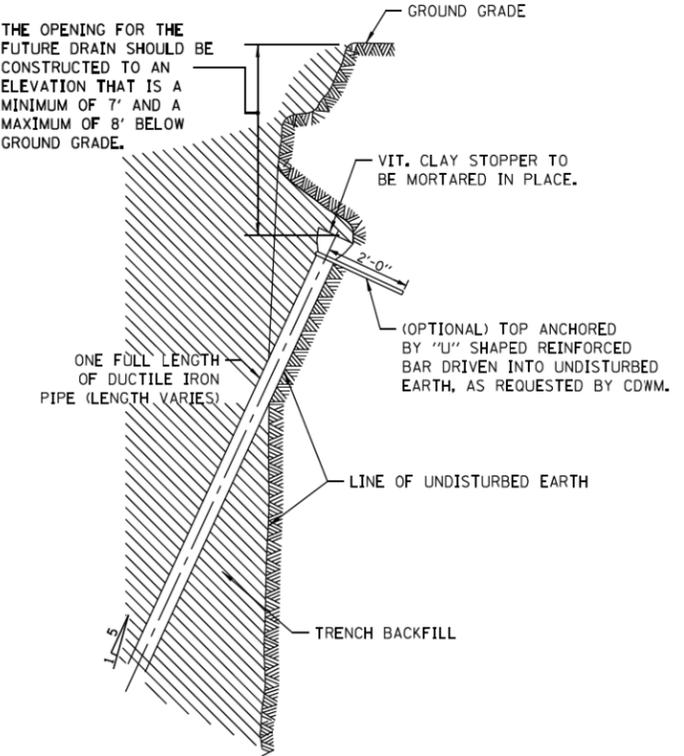
F.A.I. RTE. 90/94/290	SECTION 2013-011R	COUNTY COOK	TOTAL SHEETS 356	SHEET NO. 341
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W29	

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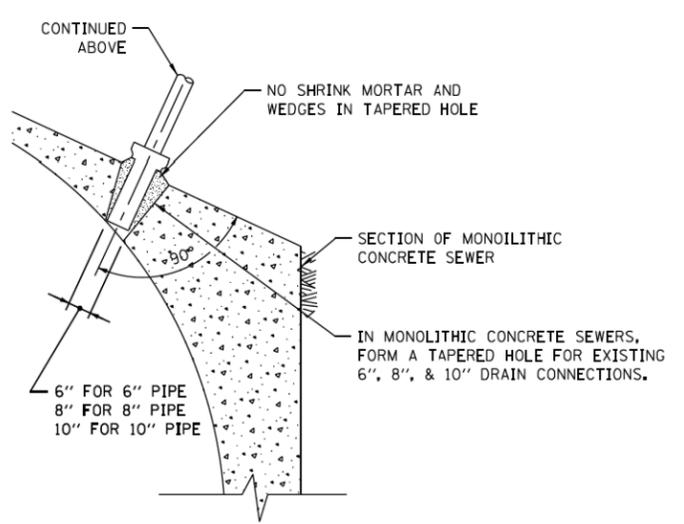
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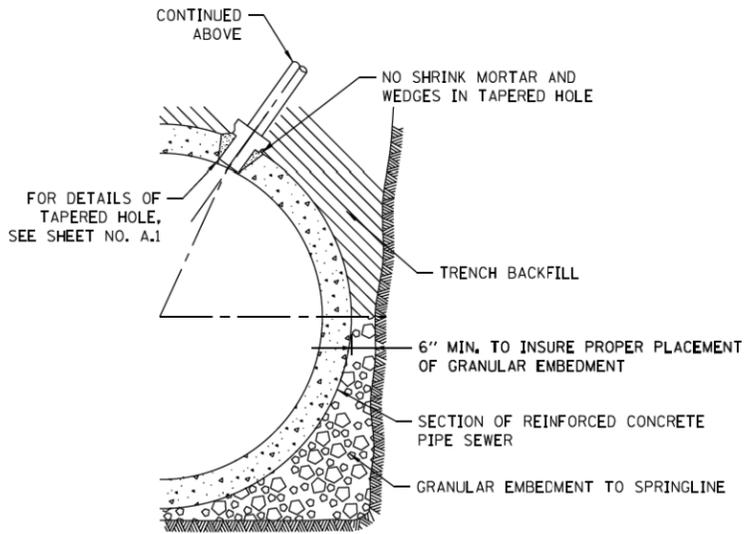
TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



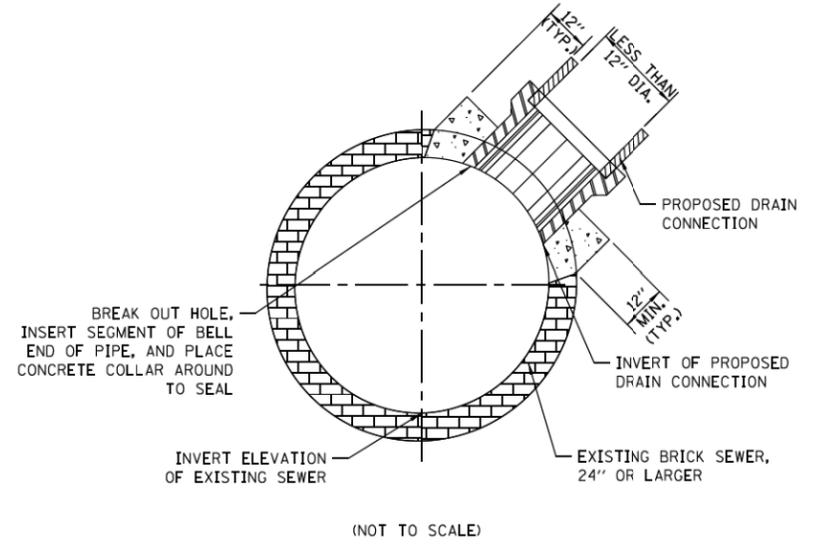
TYPICAL DRAIN STACKS FOR FUTURE USE



FOR MONOLITHIC CONCRETE SEWERS



FOR REINFORCED CONCRETE PIPE SEWERS



FOR BRICK SEWERS

- NOTES:**
- DUCTILE IRON PIPE MUST BE BELL END WITH PUSH-ON JOINTS CONFORMING TO ANSI SPECIFICATIONS A21.51 WITH CLASS 52 THICKNESS.
 - CONNECTIONS AND STACKS SHOWN MUST BE USED FOR 6", 8", & 10" DRAINS ONLY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE USE OF DUCTILE IRON DRAIN CONNECTIONS AND STACKS.
 - FOR VITRIFIED CLAY PIPE DRAIN CONNECTION AND DRAIN STACK CONSTRUCTION, SEE SHEET NO. A.1.
 - FOR ALL GRANULAR EMBANKMENT, USE CA-7 OR CA11.

DUCTILE IRON PIPE DRAIN CONNECTIONS

BRICK SEWER DRAIN CONNECTIONS

STANDARD REVISIONS	
DATE	DESCRIPTION
06/25/10	APPROVED PLAN
12/17/12	REVISION

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	

CITY OF CHICAGO	
DEPARTMENT OF WATER MANAGEMENT	
BUREAU OF ENGINEERING SERVICES	
DUCTILE IRON PIPE DRAIN CONNECTIONS	

DRAWN	SOB	A.2
DESIGNED		
CHECKED		
REVIEWED		OF
PN		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS A.3
SCALE: NONE SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	342
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS A.6**

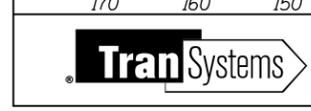
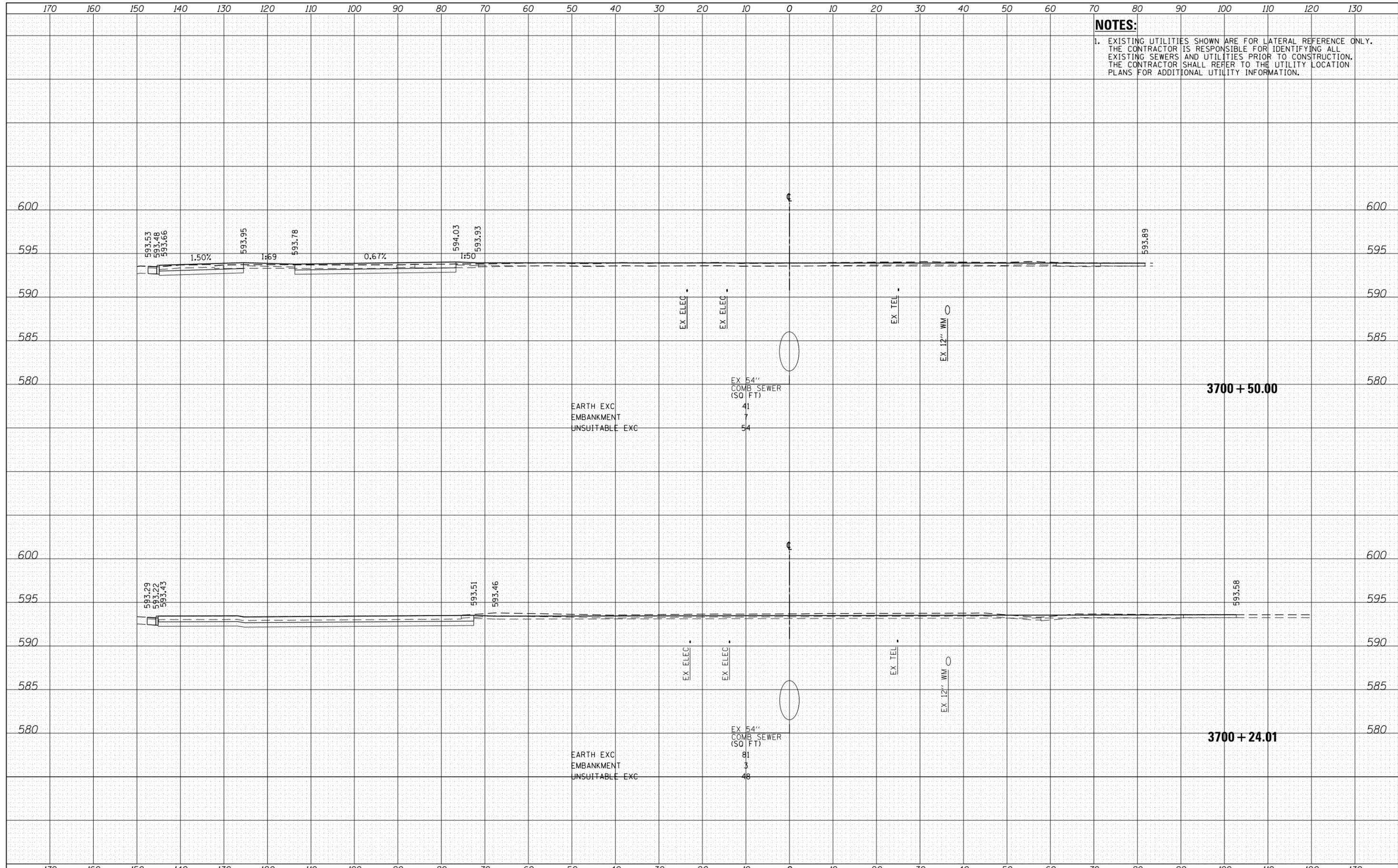
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-01R	COOK	356	345
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W29	

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

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

NOTES:
 1. EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

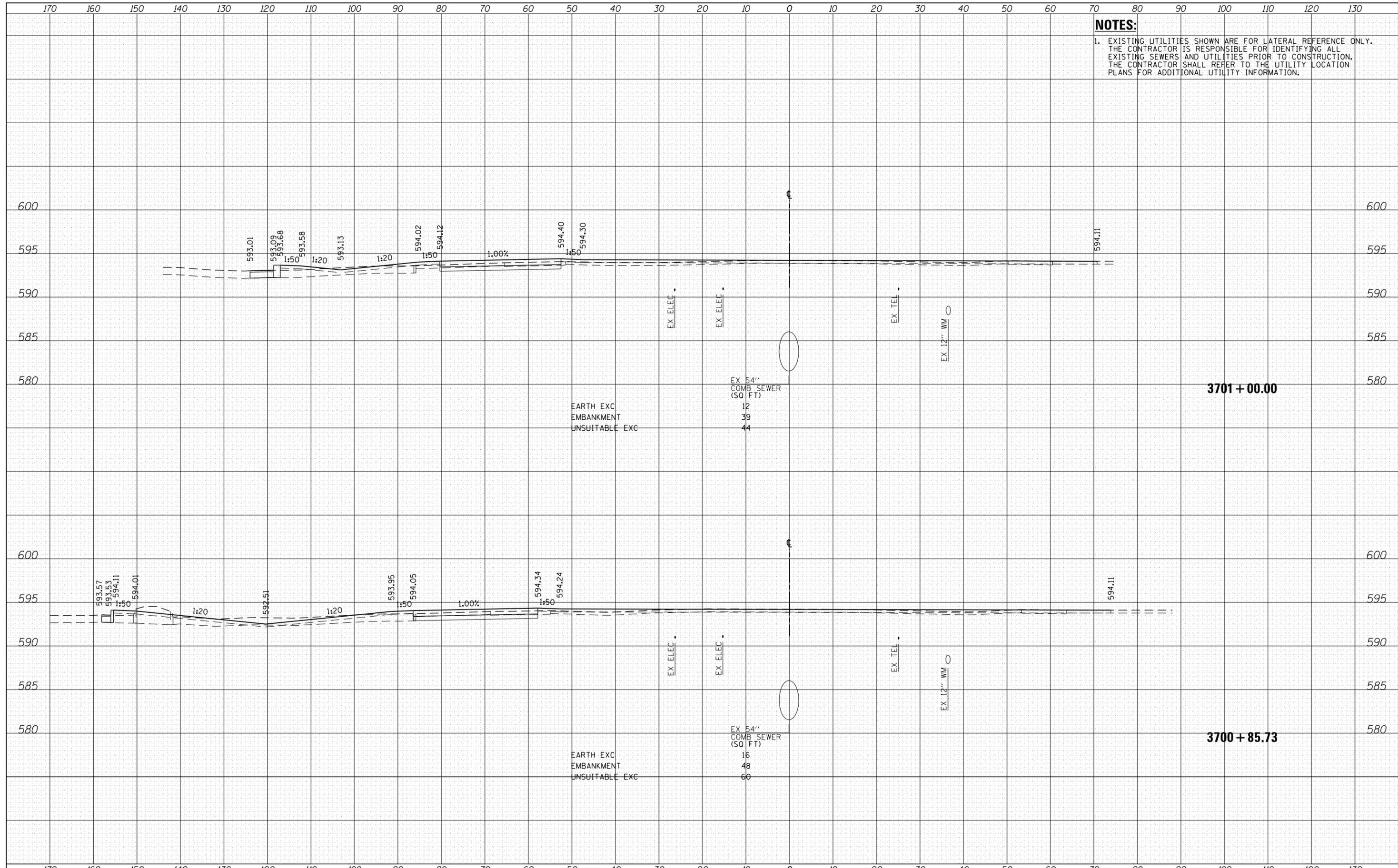
CROSS SECTIONS PEORIA STREET STAGE 1			
SCALE: 10:H 5:V	SHEET 1 OF 10 SHEETS	STA. 3700+24.01 TO STA. 3700+50.00	

F.A.I. RTE. 90/94/290	SECTION 2013-011R	COUNTY COOK	TOTAL SHEETS 356	SHEET NO. 347
CONTRACT NO. 60W29				ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 PEORIA STREET STAGE 1**

SCALE: 10:H 5:V SHEET 2 OF 10 SHEETS STA. 3700+85.73 TO STA. 3701+00.00

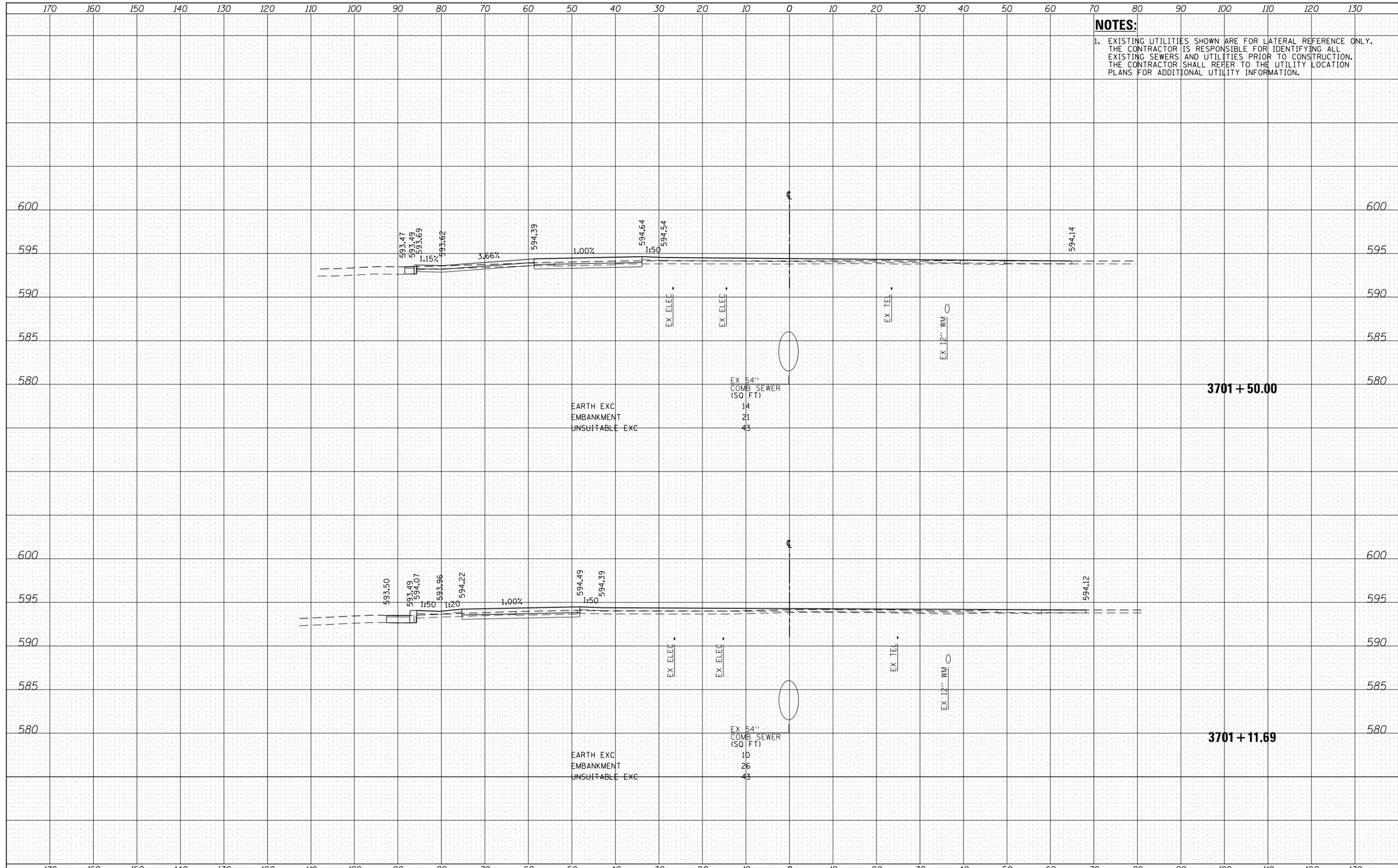
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	348
				CONTRACT NO. 60W29

ILLINOIS FED. AID PROJECT

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

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

NOTES:
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PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 PEORIA STREET STAGE 1**

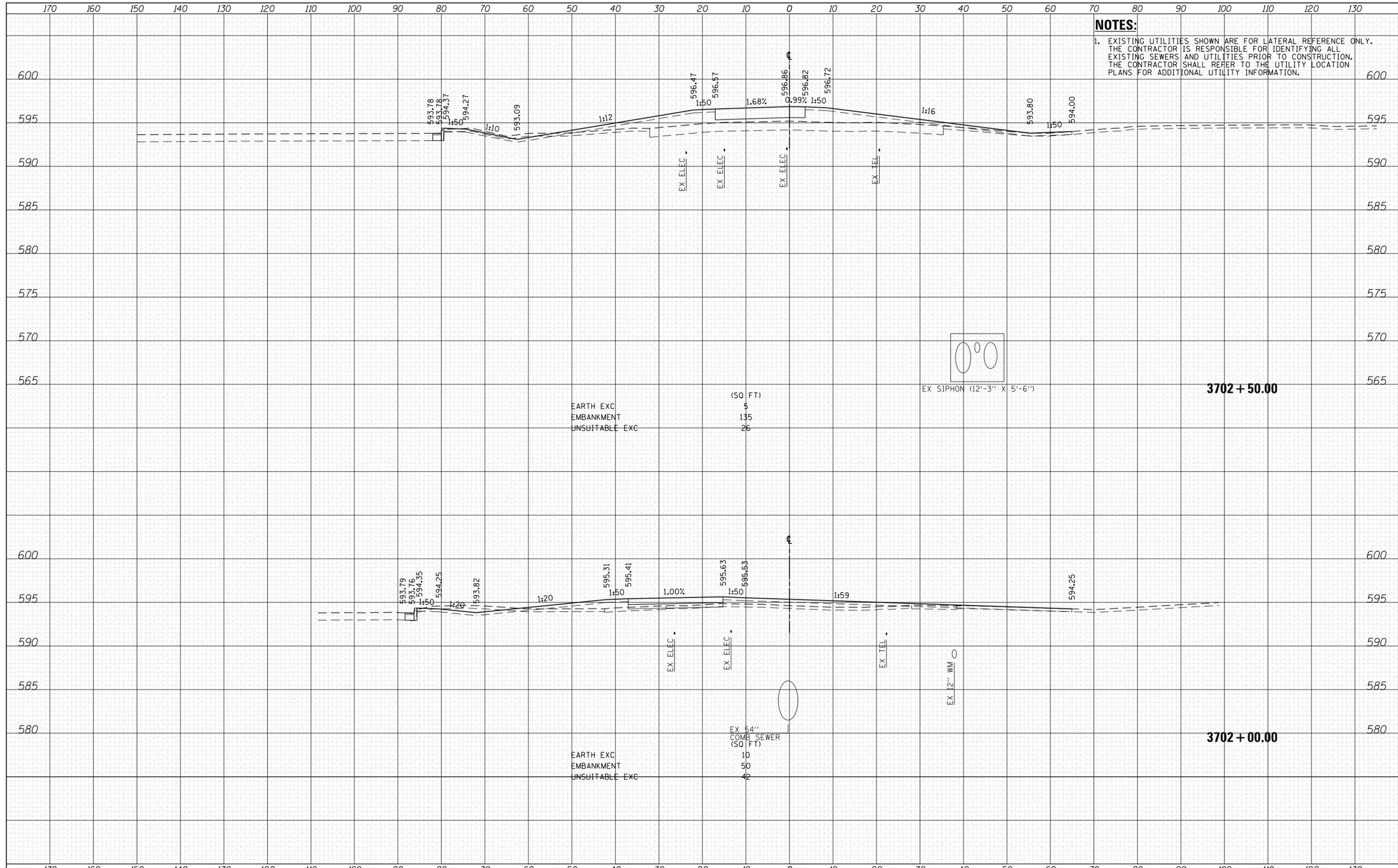
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	349
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

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

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

NOTES:
 1. EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.



D:\60W29-Sht-XS-01.dgn	DESIGNED - JLV	REVISED -
USER NAME = BAW1tor.t	DRAWN - KAL	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 PEORIA STREET STAGE 1**

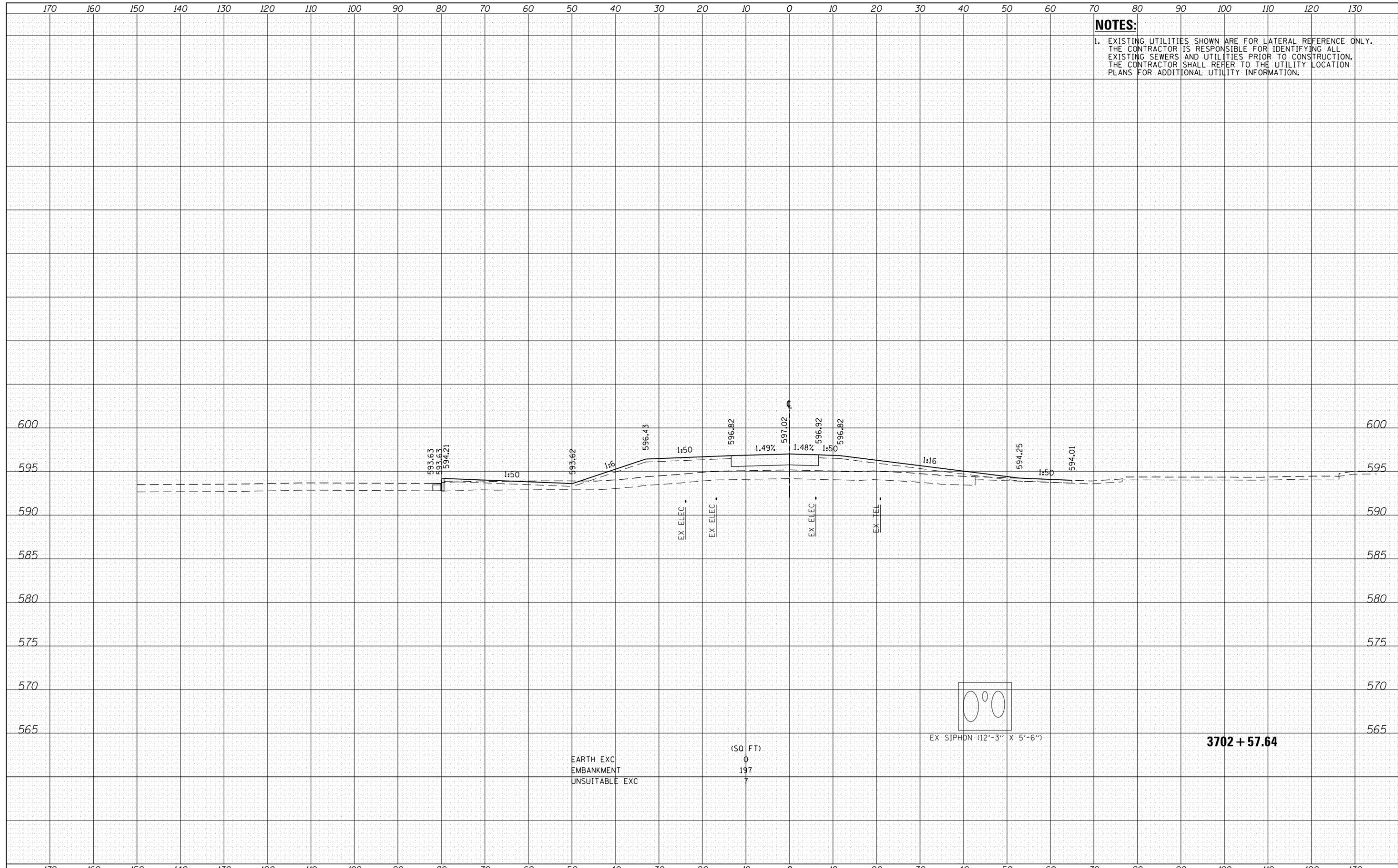
SCALE: 10'H 5'V SHEET 4 OF 10 SHEETS STA. 3702+00.00 TO STA. 3702+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	350
			CONTRACT NO. 60W29	
ILLINOIS FED. AID PROJECT				

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

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

NOTES:
 1. EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.



D160W29-Sht-XS-01.dgn	DESIGNED - JLK	REVISED -
USER NAME = BAW:tor t	DRAWN - KAL	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 PEORIA STREET STAGE 1**

SCALE: 10:H 5:V SHEET 5 OF 10 SHEETS STA. 3702+57.64 TO STA. 3702+57.64

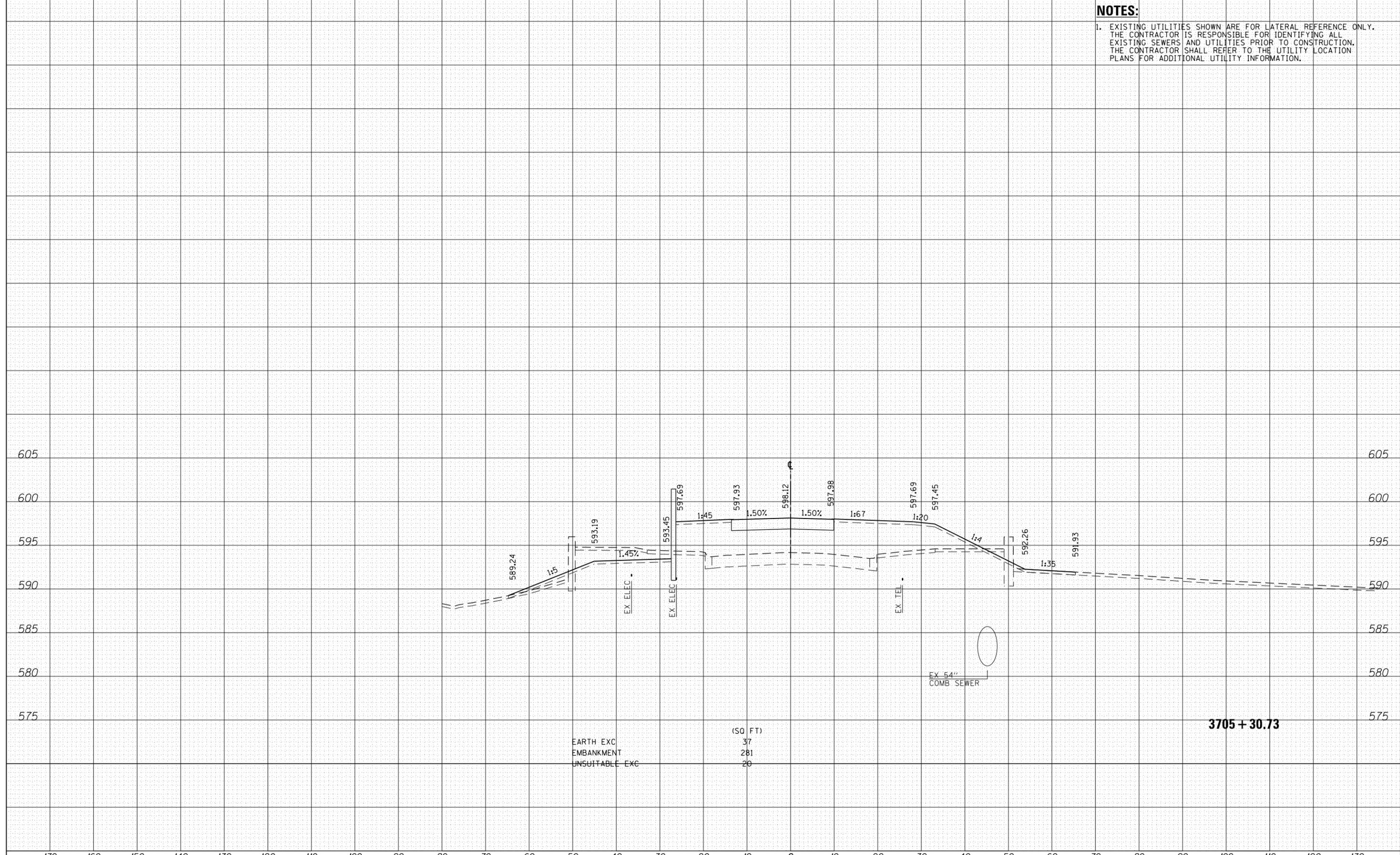
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	351
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

NOTES:
 1. EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.

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

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



(SQ FT)
 EARTH EXC 37
 EMBANKMENT 281
 UNSUITABLE EXC 20

3705 + 30.73



D160W29-Sht-XS-01.dgn	DESIGNED - JLW	REVISED -
USER NAME = BAW1tor1	DRAWN - KAL	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

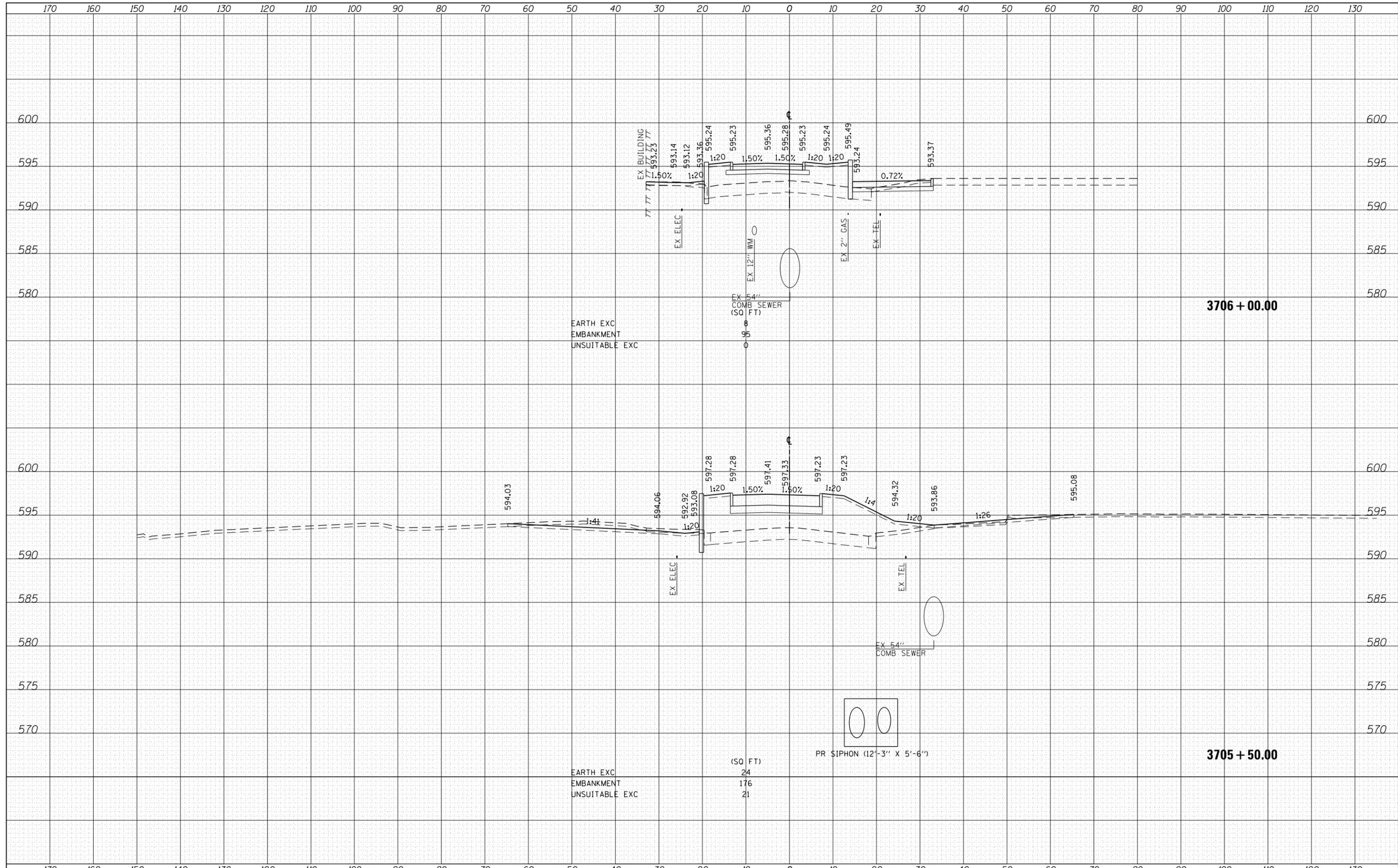
**CROSS SECTIONS
 PEORIA STREET STAGE 1**

SCALE: 10:H 5:V SHEET 6 OF 10 SHEETS STA. 3705+30.73 TO STA. 3705+30.73

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	352
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

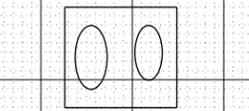
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



EARTH EXC
EMBANKMENT
UNSUITABLE EXC

EARTH EXC
EMBANKMENT
UNSUITABLE EXC

(SQ FT)
24
176
21



PR SIPHON (12'-3" X 5'-6")

3706 + 00.00

3705 + 50.00



D:\60W29-Sht-XS-01.dgn	DESIGNED - JLJ	REVISED -
USER NAME = BAWtor t	DRAWN - KAL	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

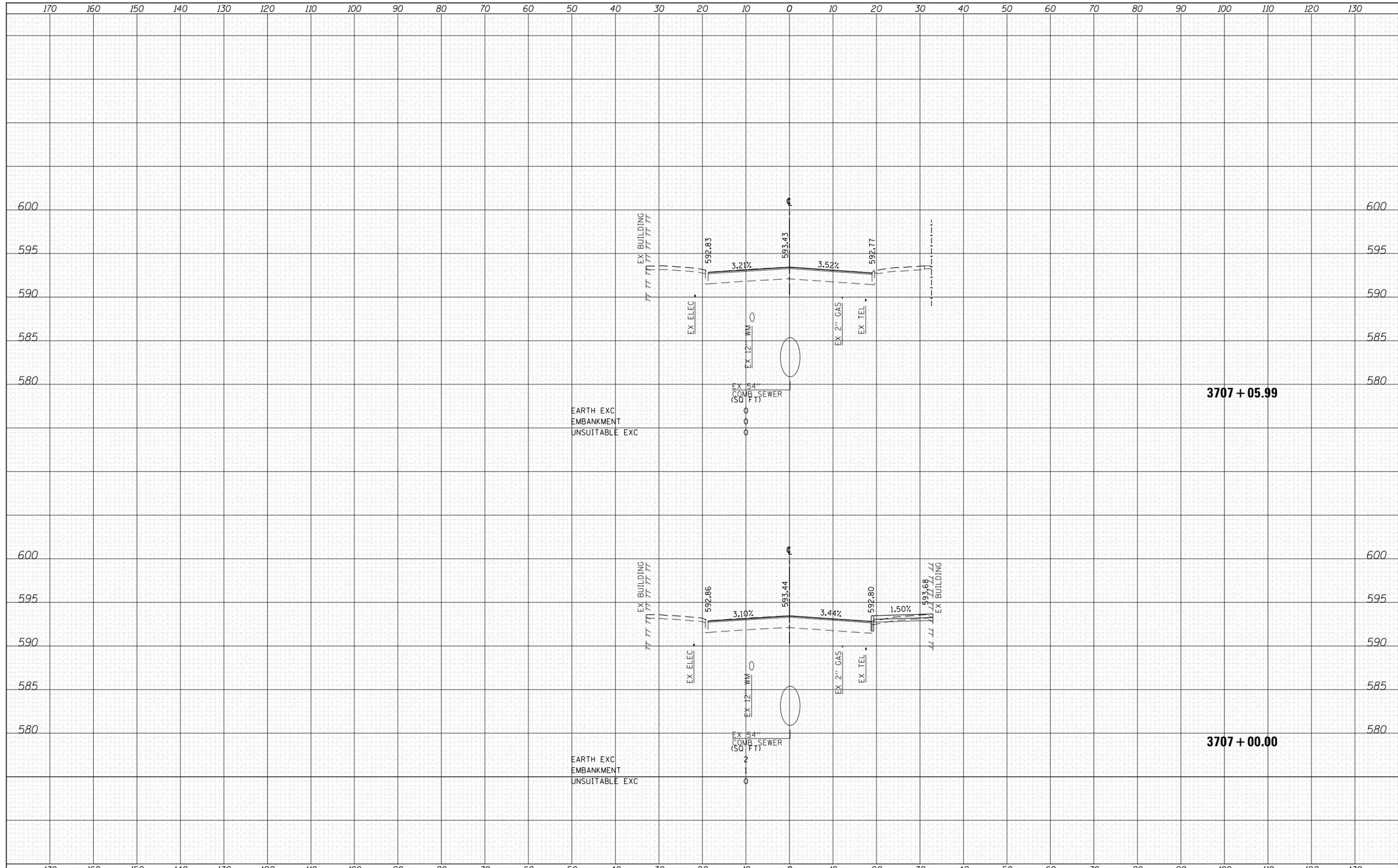
**CROSS SECTIONS
PEORIA STREET STAGE 1**

SCALE: 10'H 5'V SHEET 7 OF 10 SHEETS STA. 3705+50.00 TO STA. 3706+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	353
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

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

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



D160W29-Sht-XS-01.dgn	DESIGNED - JLK	REVISED -
USER NAME = BAW1tor.t	DRAWN - KAL	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

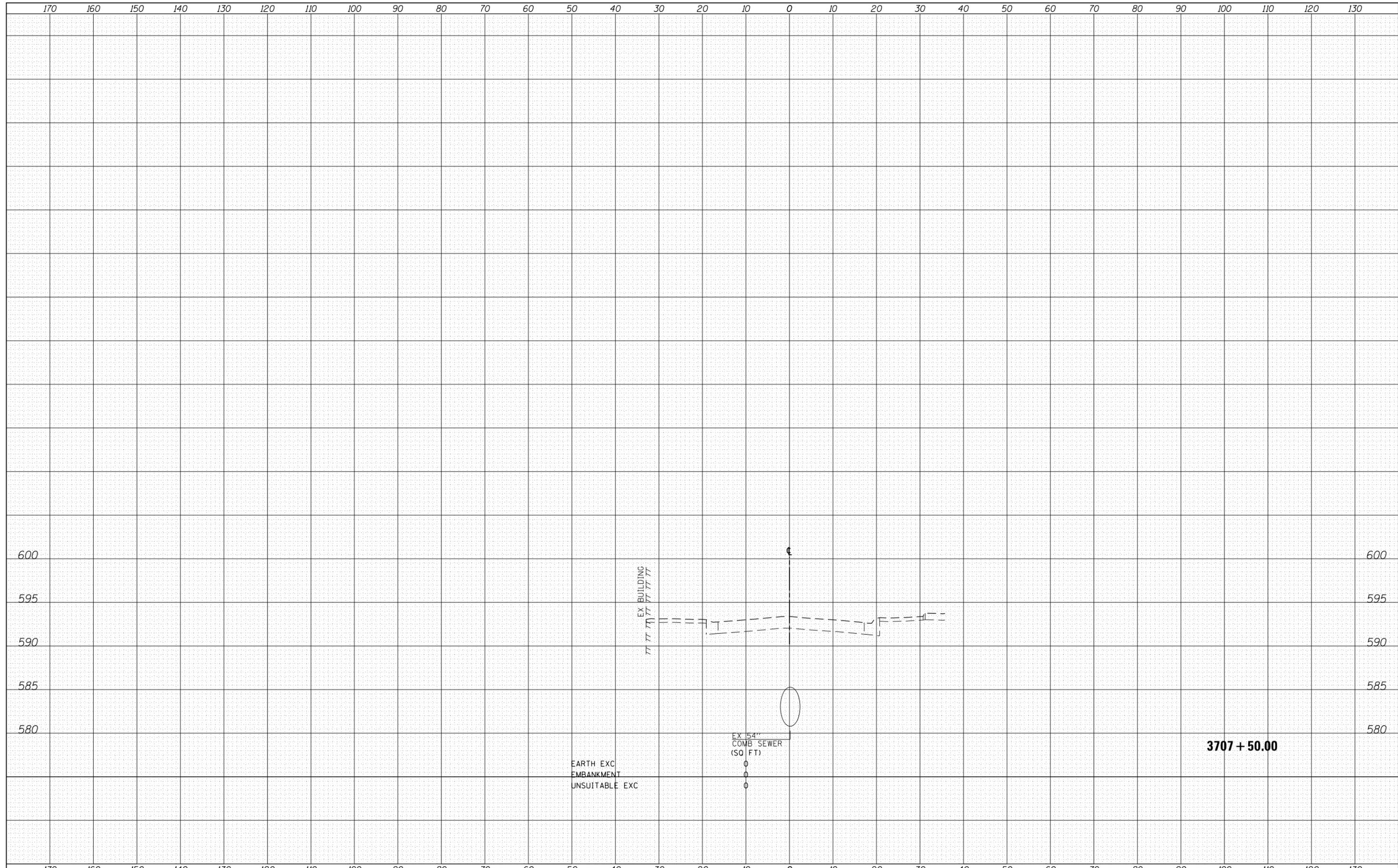
**CROSS SECTIONS
PEORIA STREET STAGE 1**

SCALE: 10:H 5:V SHEET 9 OF 10 SHEETS STA. 3707+00.00 TO STA. 3707+05.99

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	355
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

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

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



EARTH EXC
EMBANKMENT
UNSUITABLE EXC

EX 54"
COMB SEWER
(SQ FT)

3707 + 50.00



D160W29-Sht-XS-01.dgn
USER NAME = BAWtor t
PLOT SCALE = 20.0000' / in.
PLOT DATE = 10/28/2013

DESIGNED - JLK
DRAWN - KAL
CHECKED - JMG
DATE - 10/30/2013

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
PEORIA STREET STAGE 1**

SCALE: 10:H 5:V SHEET 10 OF 10 SHEETS STA. 3707+50.00 TO STA. 3707+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	356
CONTRACT NO. 60W29				

ILLINOIS FED. AID PROJECT