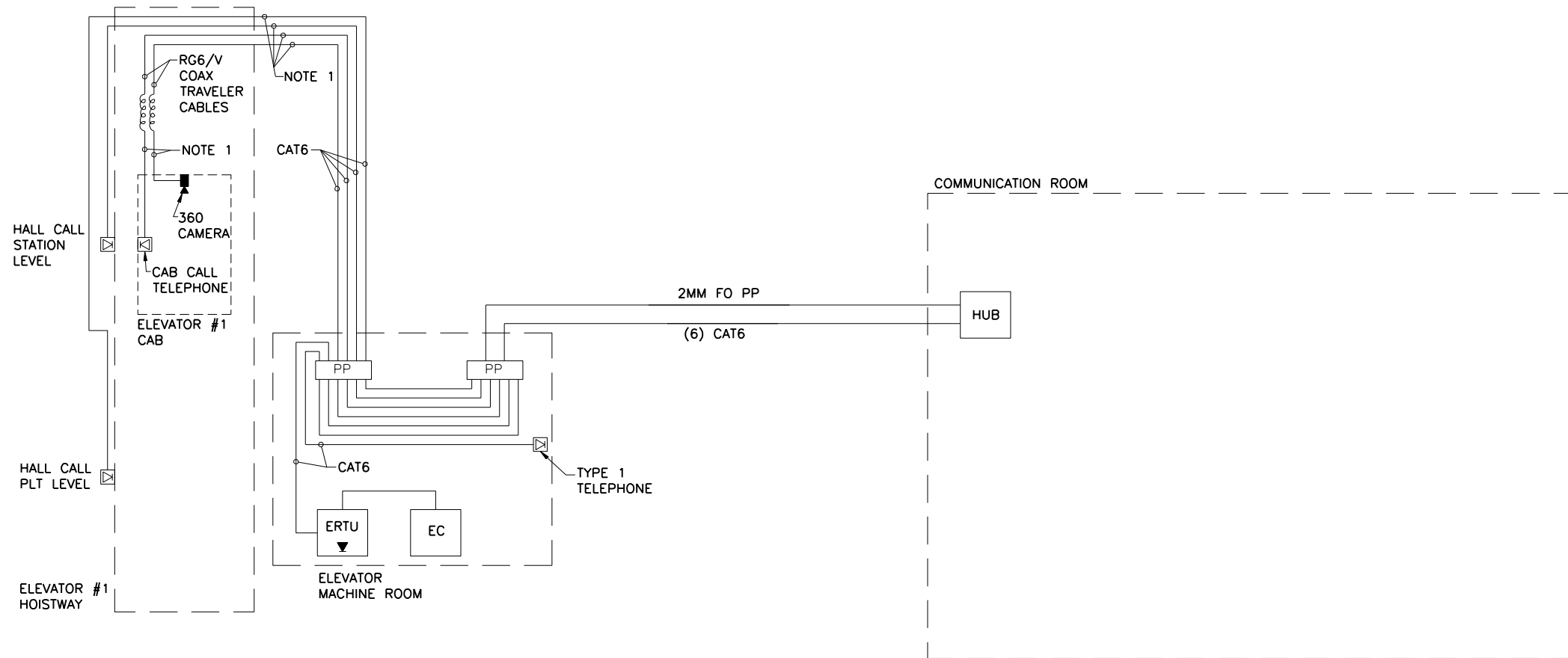


**NOTES:**

1. FURNISH AND INSTALL CAT6 TO RG6/V COAX CONVERTER BOX.



1 ELEVATOR SYSTEM ONE LINE DIAGRAM

A

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**TranSystems**

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PLOT DATE = 12/17/2013	CHECKED -	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

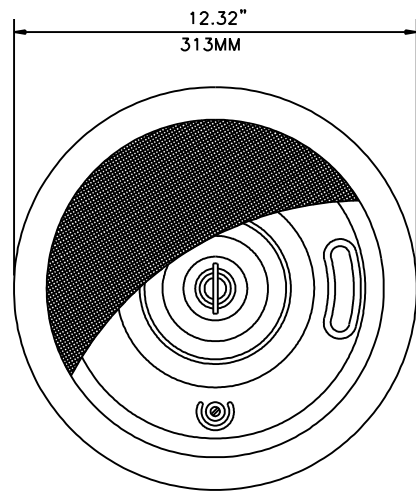
**PEORIA STREET STATION COMMUNICATION  
COMMUNICATION ELEVATOR SYSTEM ONE LINE DIAGRAM**

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

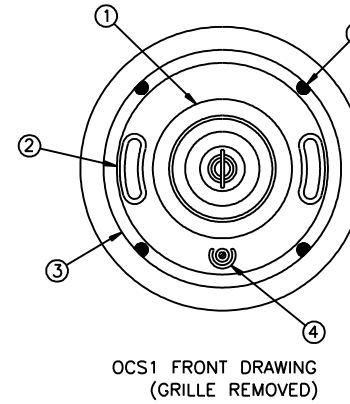
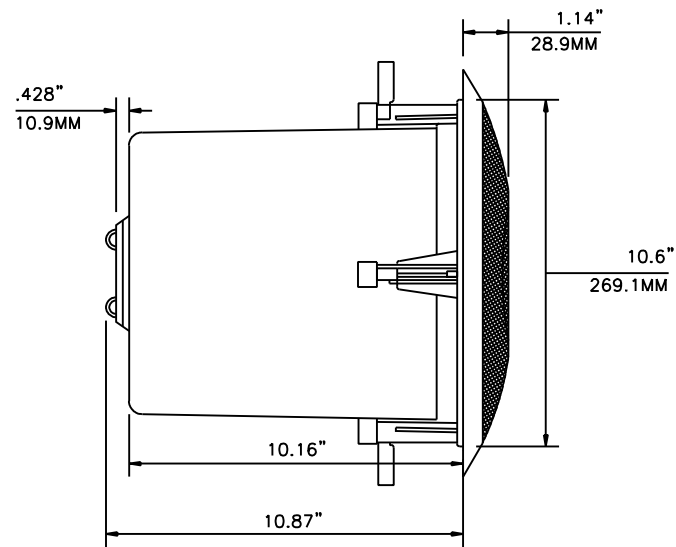
SHEET NO. T-300OF 117 SHEETS

ILLINOIS FED. AID PROJECT

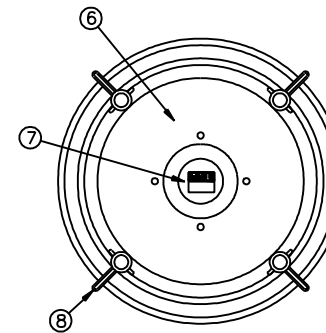
3:57:38 PM 301-60W29.dgn



(GRILLE SHOWN PARTIALLY REMOVED)



OCS1 FRONT DRAWING  
(GRILLE REMOVED)



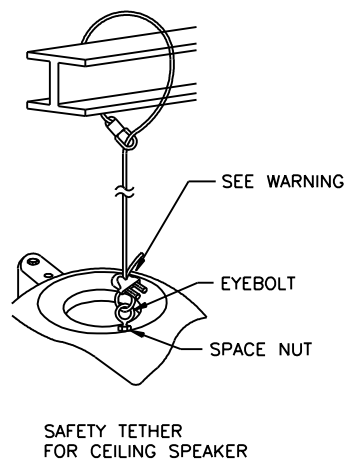
OCS1 REAR DRAWING

**NOTE:**

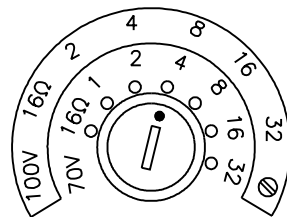
1. TAMPER PROOF HARDWARE TO BE USED TO SECURE THE INSTALLATION OF ALL SPEAKER ASSEMBLES.

**1 TYPE - 2 CEILING SPEAKER RECESSED MOUNT**  
NTS

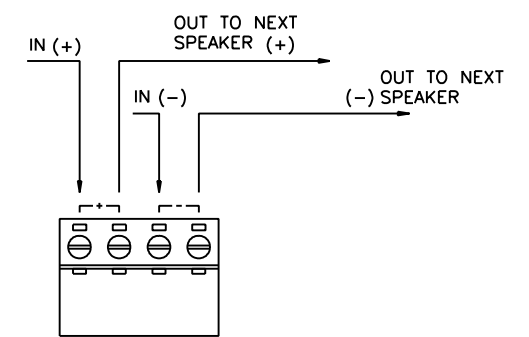
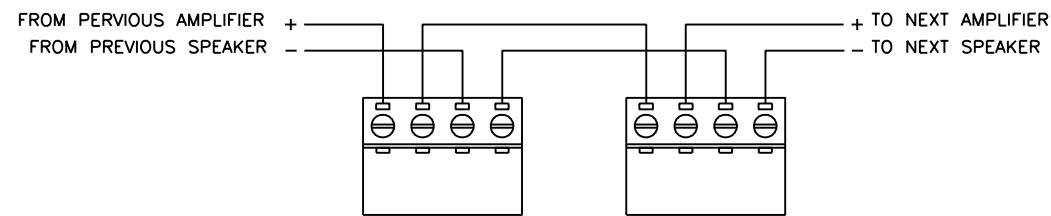
**2 TYPE 2 - SPEAKER DETAIL**  
NTS



SEE WARNING  
EYEBOLT  
SPACE NUT  
SAFETY TETHER FOR CEILING SPEAKER



**4 TYPE 2 - SPEAKER TAP**  
NTS



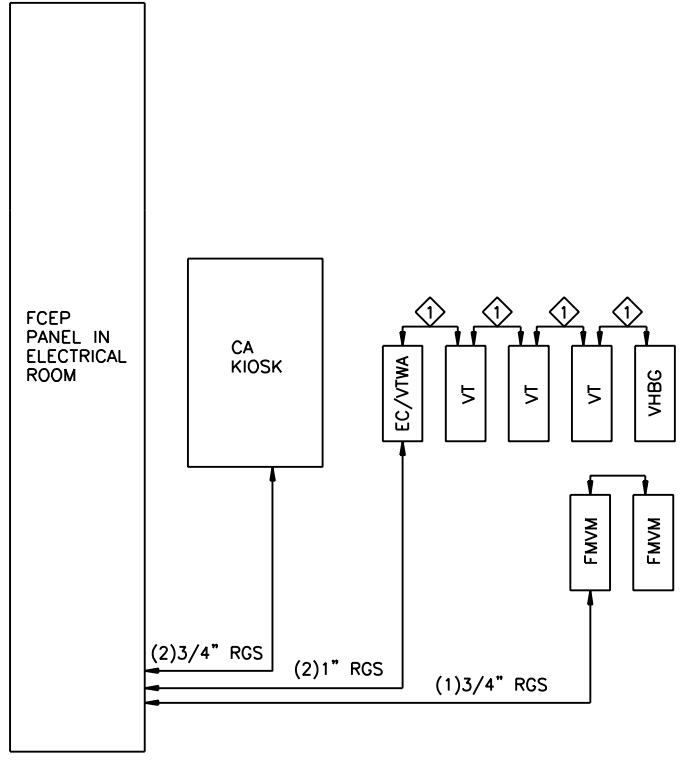
**3 SAFETY TETHER DETAIL**  
NTS

**5 TYPE 2 - SPEAKER CONNECTION**  
NTS

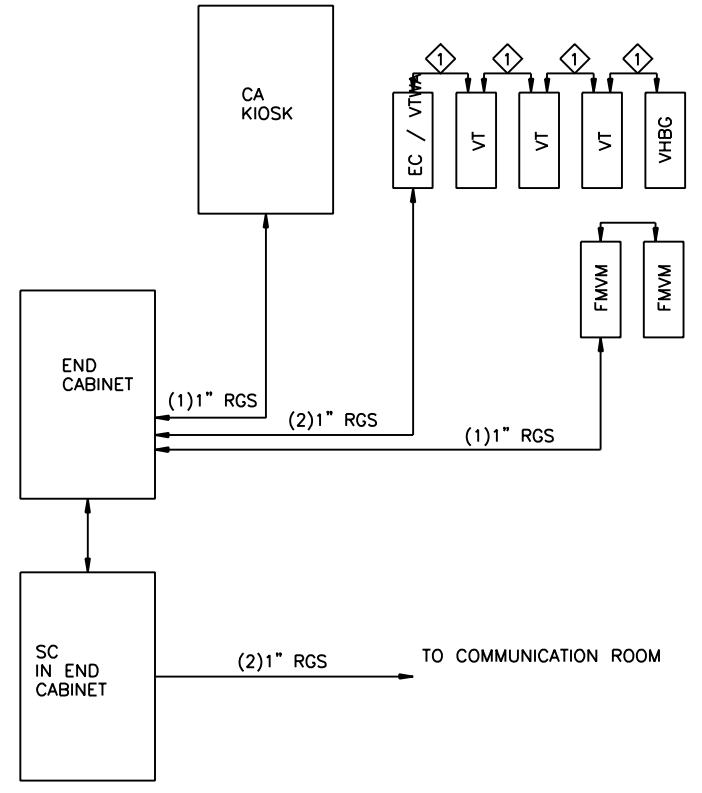
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	CHECKED -	REVISED - 12/18/2013
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PLOT DATE = 12/17/2013	CHECKED -	REVISED -

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



**1** REVENUE EQUIPMENT ELECTRICAL POWER DIAGRAM  
NTS



**2** REVENUE EQUIPMENT COMMUNICATION DIAGRAM  
NTS

**KEYED NOTES:**

1 OVERHEAD CONDUIT AND WIRING PART OF THE FARE EQUIPMENT PACKAGE.

**NOTES:**

1. ALL CONDUITS TO ENTER FROM THE EQUIPMENT BOTTOM.
2. ALL DATA CABLES TO BE CATGEORY-6 UTP 4-PR.
3. ELECTRICAL CONTRACTOR TO PULL ALL POWER AND DATA CABLES BEFORE INSTALLATION AND TO PROVIDE 15' EXTRA LENGTH AT EACH STUB UP OR JUNCTION BOX.
4. SEE ELECTRICAL PLANS FOR REVENUE EQUIPMENT POWER REQUIREMENTS.
5. ALL POWER CIRCUITS TO REVENUE EQUIPMENT TO INCLUDE SEPARATE NEUTRAL WIRE FOR EACH CIRCUIT.
6. ALL CONDUIT TO BE ROUTED UNDER FLOOR SLAB, TYP.

**LEGEND:**

- EC - END CABINET
- FMVM - FARE MEDIA VENDING MACHINE (VENTRA)
- SC - STATION CONTROLLER
- TEX - TURNSTYLE, EXIT ONLY
- VHBC - VENTRA HIGH BARRIER GATE
- VT - VENTRA TURNSTYLE
- VTWA - VENTRA TURNSTYLE, WHEELCHAIR ACCESSIBLE



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PLOT DATE = 12/17/2013	CHECKED -	REVISED -

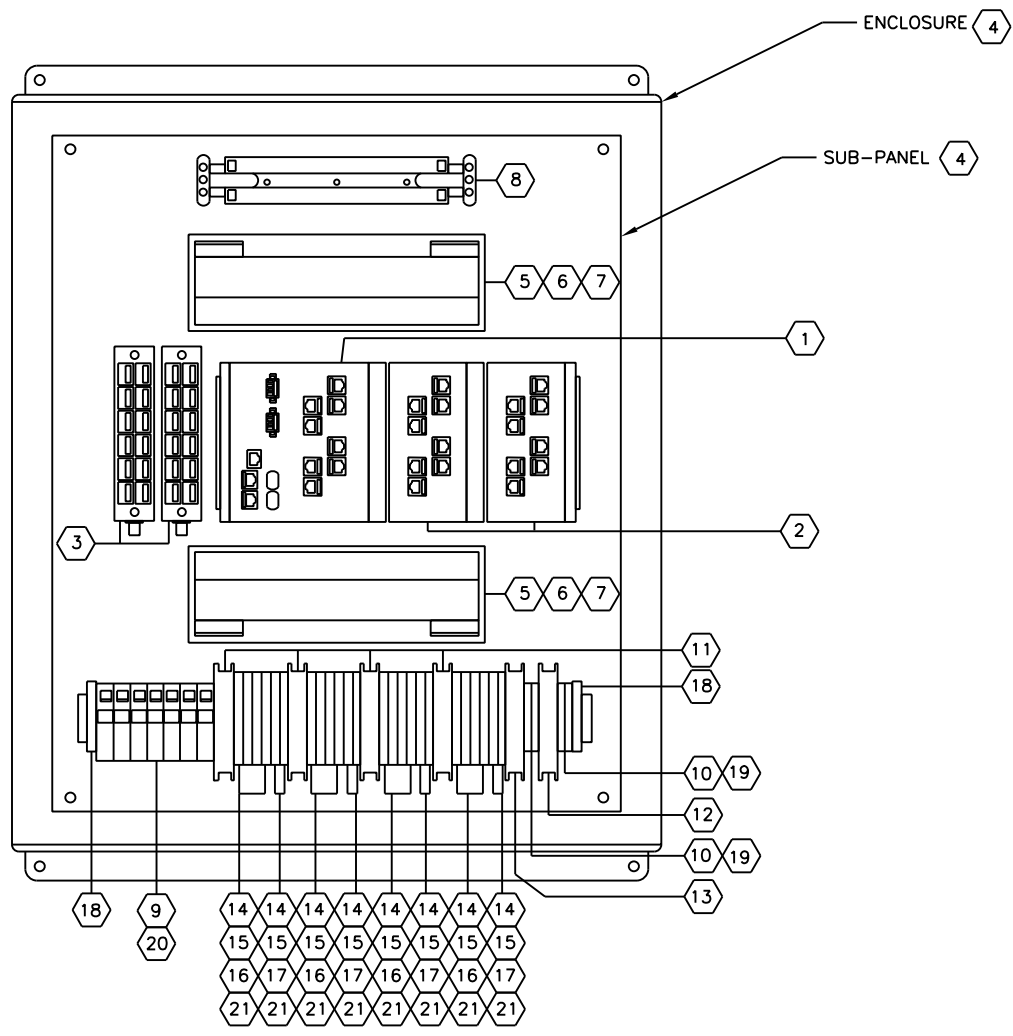
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PEORIA STREET STATION  
COMMUNICATION FARE CONTROL SYSTEM ONE LINE DIAGRAMS**

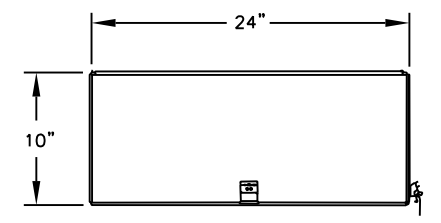
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	303
CONTRACT NO.			60W29	
ILLINOIS FED. AID PROJECT				

SHEET NO. T-3020F 117 SHEETS

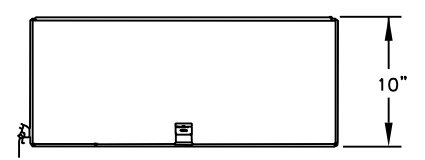
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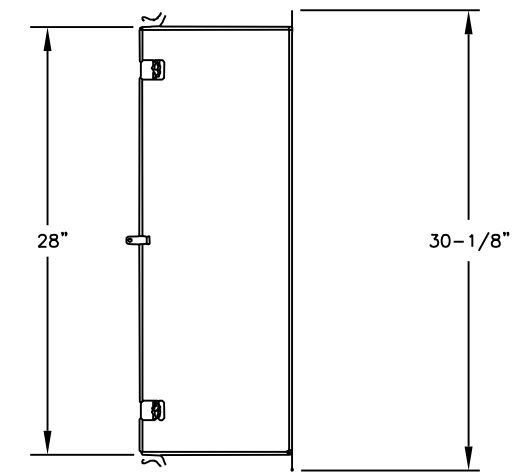
1 HUB - FRONT VIEW COMPONENTS  
SCALE: NOT TO SCALE



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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STATE OF ILLINOIS  
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PEORIA STREET STATION  
COMMUNICATION STANDARD DETAILS COMMUNICATION HUB

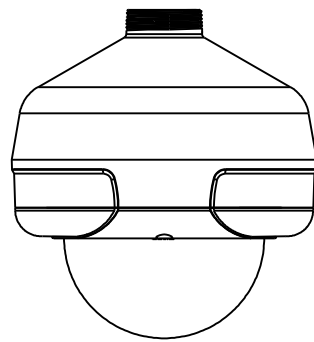
PRELIMINARY NOT FOR CONSTRUCTION				
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			60W29	
ILLINOIS FED. AID PROJECT				

1:21:57 PM 3/04/2013

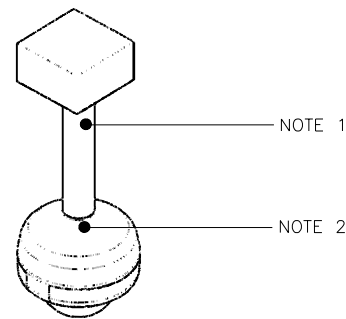


**NOTES:**

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



**1** FIXED CAMERA - PENDANT MOUNT  
SCALE NTS




**2** FIXED CAMERA - PENDANT DETAIL  
SCALE NTS



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PLOT DATE = 12/17/2013	CHECKED -	REVISED

**STATE OF ILLINOIS  
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**PEORIA STREET STATION  
COMMUNICATION CCTV CAMERA DETAILS**

SHEET NO. T-304 OF 117 SHEETS

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

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3:59:57 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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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

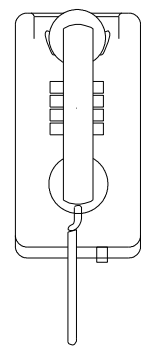
SHEET NO. 115 OF 117 SHEETS

PRELIMINARY NOT FOR CONSTRUCTION

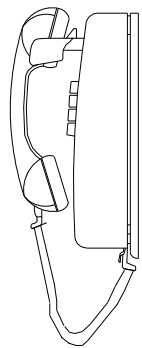
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	306
CONTRACT NO.			60W29	
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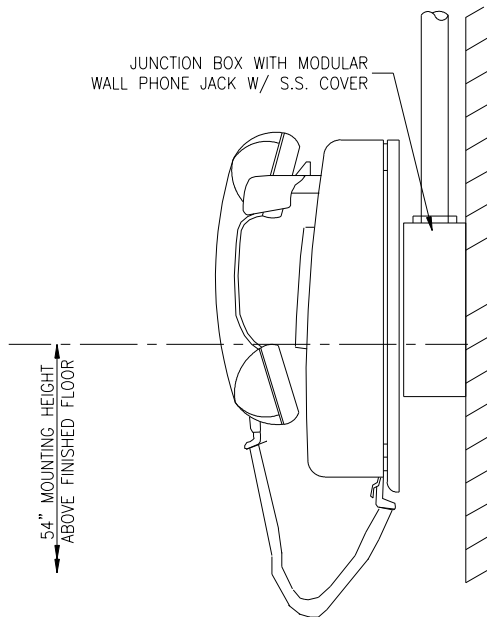
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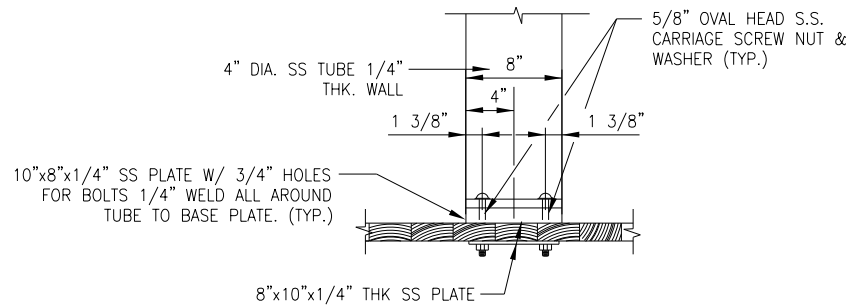
FRONT VIEW



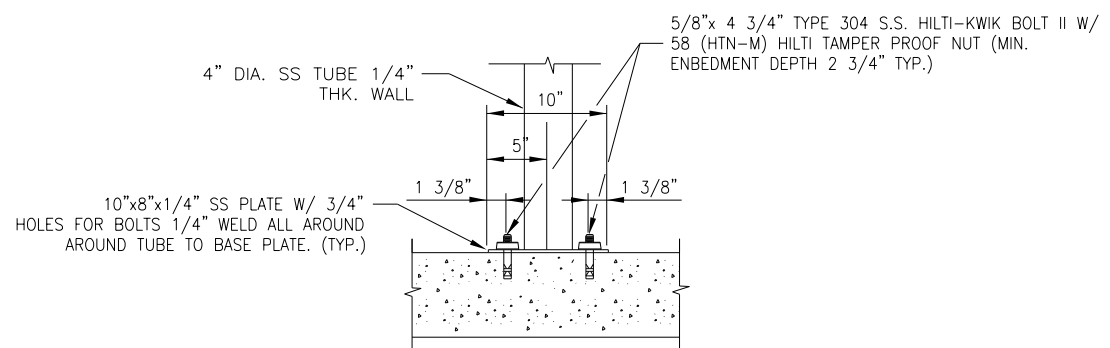
SIDE VIEW



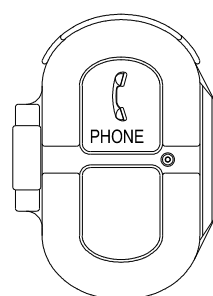
**1 TYPE 1 - INDOOR TELEPHONE WALL INSTALLATION**  
SCALE: NTS



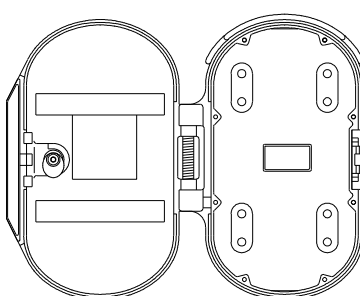
**2 STAND ALONE PHONE WOOD INSTALLATION**  
SCALE: NTS



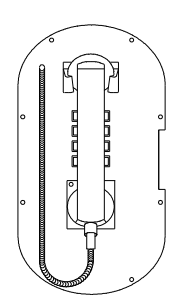
**3 STAND ALONE PHONE CONCRETE INSTALLATION**  
SCALE: NTS



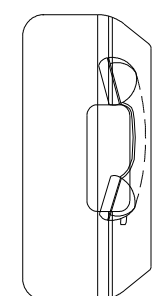
FRONT VIEW



OPEN VIEW

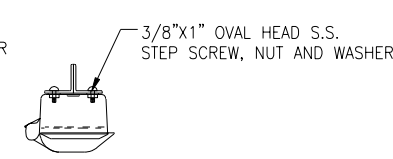
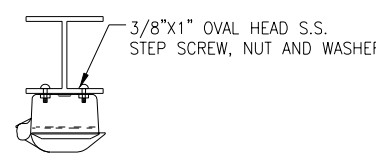
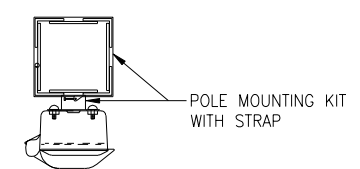
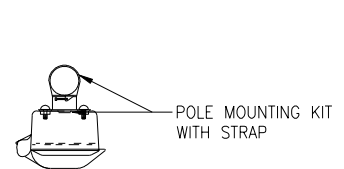


FRONT PANEL



SIDE VIEW

**4 TYPE 2 - OUTDOOR TELEPHONE**  
SCALE: NTS



**5 TYPE 2 - OUTDOOR TELEPHONE INSTALLATION**  
SCALE: NTS

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PLOT DATE = 12/17/2013	CHECKED -	REVISED -

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DEPARTMENT OF TRANSPORTATION

PEORIA STREET STATION  
COMMUNICATION EQUIPMENT DETAILS PART 1  
SHEET NO. T-4010F 117 SHEETS

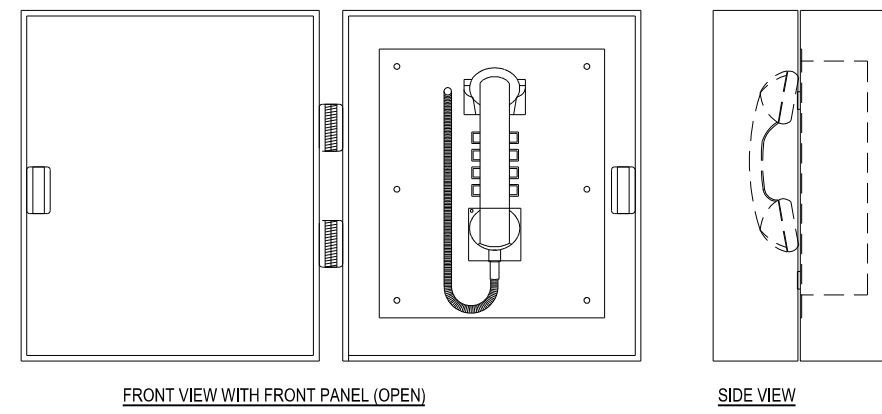
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2090	2013-011R	COOK	356	307
CONTRACT NO.			60W29	

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4:01:19 PM 307-60W29.dgn

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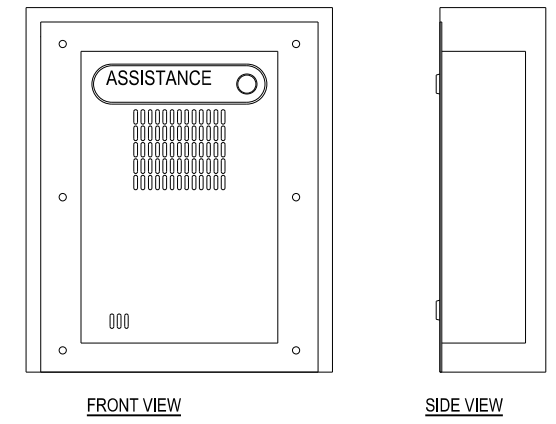
**NOTES:**  
 1. SIGN DETAIL LOCATED ABOVE HELP POINT TELEPHONE  
 \*UNLESS NOTED OTHERWISE\*.



FRONT VIEW WITH FRONT PANEL (OPEN)

SIDE VIEW

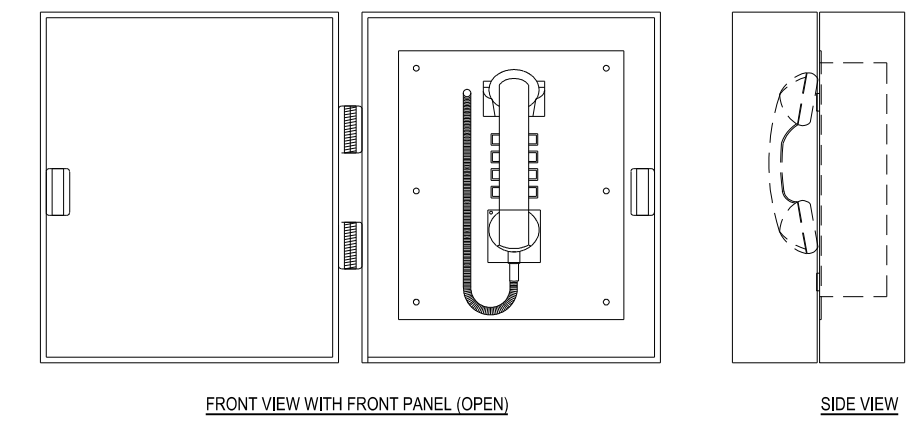
1 TYPE 4 - HELP POINT TELEPHONE  
 NTS



FRONT VIEW

SIDE VIEW

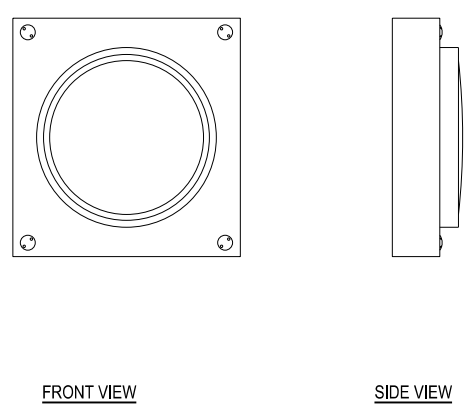
2 TYPE 4 - CUSTOMER ASSISTANCE INTERCOM  
 NTS



FRONT VIEW WITH FRONT PANEL (OPEN)

SIDE VIEW

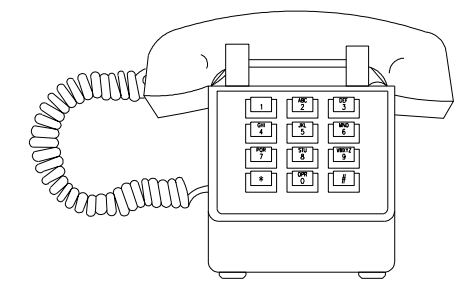
3 TYPE 5 - FARE AREA TELEPHONE  
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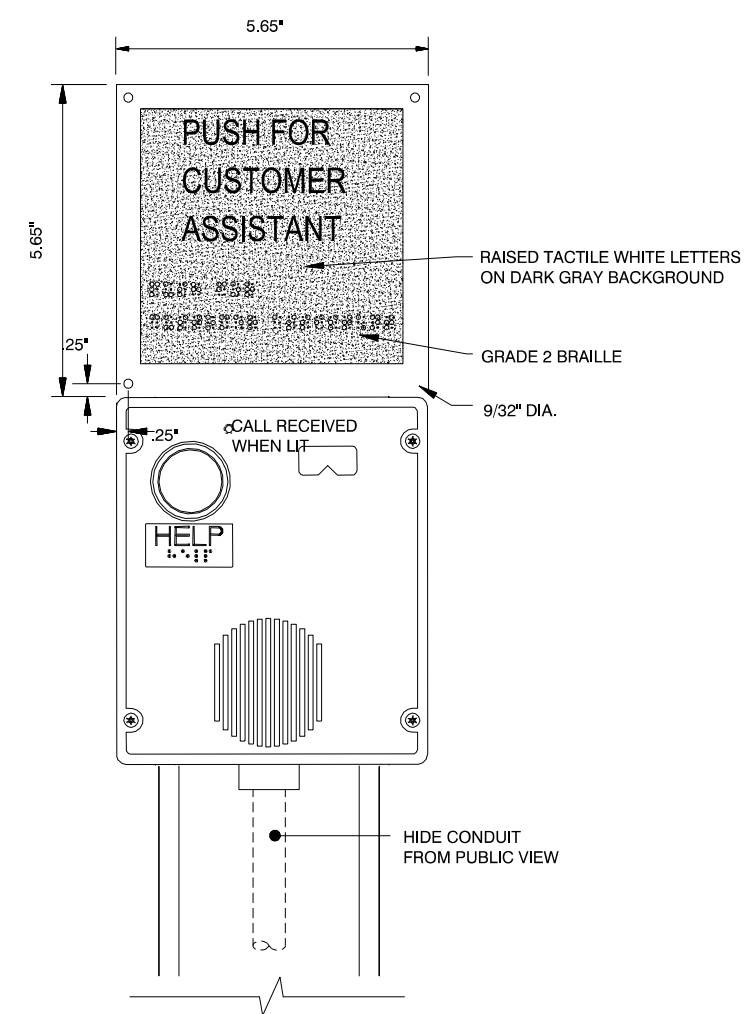
FRONT VIEW

SIDE VIEW

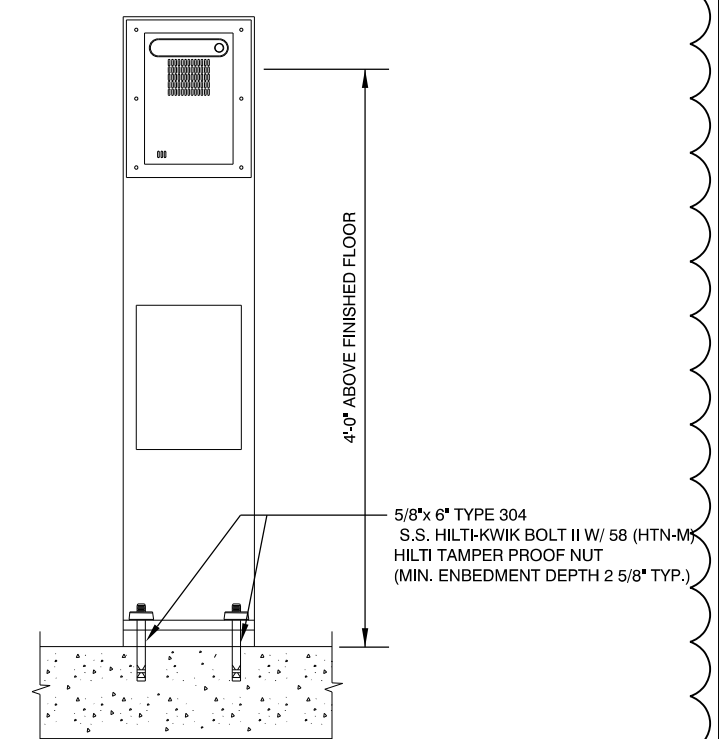
4 CUSTOMER ASSISTANCE BUTTON  
 NTS



5 TYPE 3 - INDOOR TELEPHONE  
 NTS



6 TYPE 4 - HELP POINT TELEPHONE INSTALLATION  
 NTS



7 TYPE 4 - CUSTOMER ASSIST STATION CONCRETE  
 INSTALLATION  
 NTS

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PLOT SCALE = 2.0000 / in.	DRAWN -	REVISED -
PLOT DATE = 12/17/2013	CHECKED -	REVISED -

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

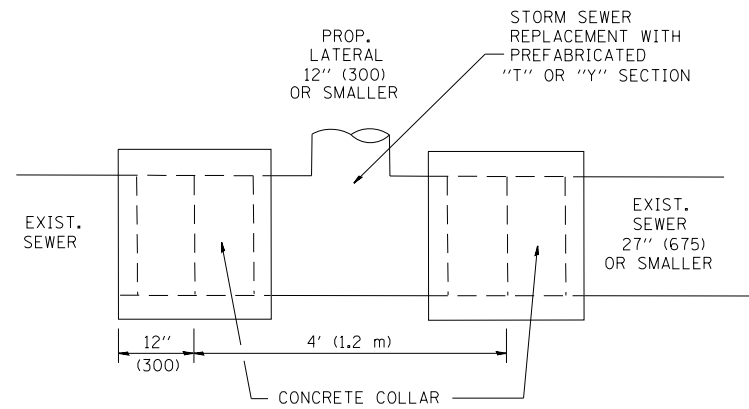
**PEORIA STREET STATION**  
**COMMUNICATION EQUIPMENT DETAILS PART 2**

SHEET NO. T-402F 117 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	308
CONTRACT NO.			60W29	

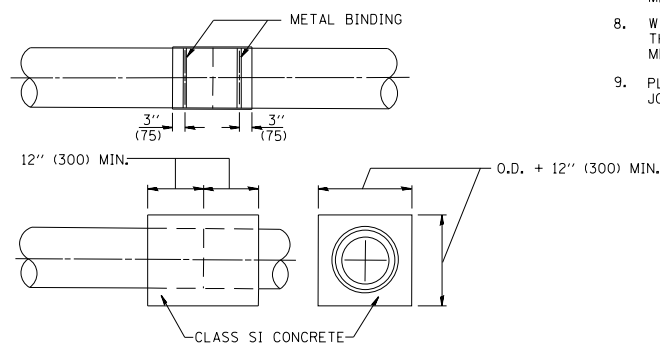
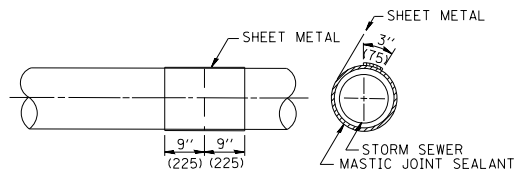
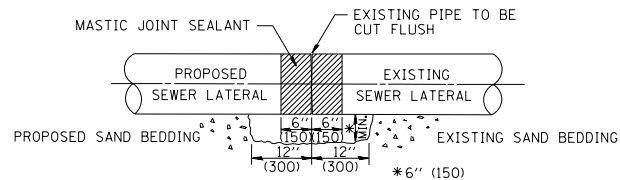
ILLINOIS FED. AID PROJECT

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DETAIL "A"

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



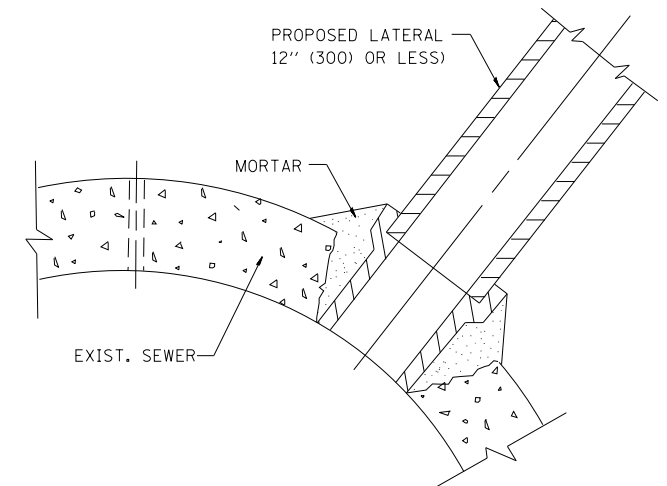
DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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

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

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

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

GENERAL

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

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

BASIS OF PAYMENT

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

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

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

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

FILE NAME =	USER NAME = BAWtor	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
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

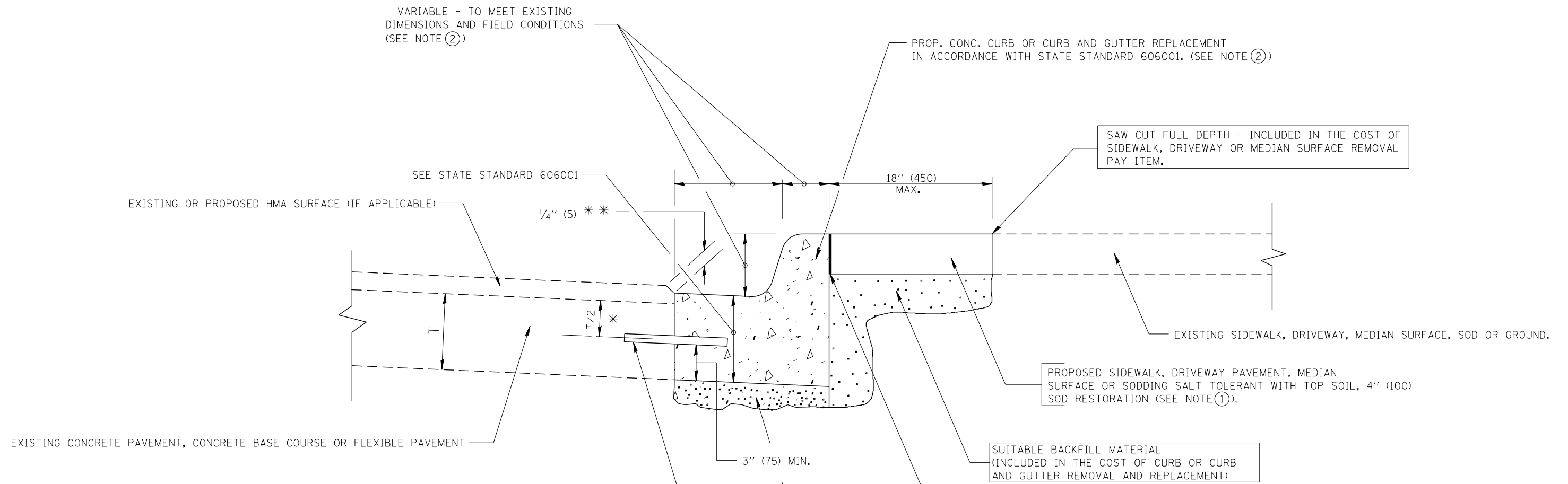
DISTRICT 1 STANDARD DETAILS  
BD-07

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				







- \* 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.

FILE NAME =	USER NAME = BAWtor.t	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 STANDARD DETAILS BD-24</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\388039\pwin\l\ecom\l\ne\local\PAE\COM\Documents\01 Americas\Transportation\606001\000\006\Road\606001\60W29\Contract\BAS606022310701\Detail-04.dgn						•	2013-011R	COOK	356	312
PLOT SCALE = 100.000' / in.						REMOVED	BD600-06 (BD-24)	CONTRACT NO. 60W29		
PLOT DATE = 10/28/2013				CHECKED -	REVISED - M. GOMEZ 01-22-01	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				DATE - 03-11-94	REVISED - R. BORO 12-15-09	• 90/94/290				



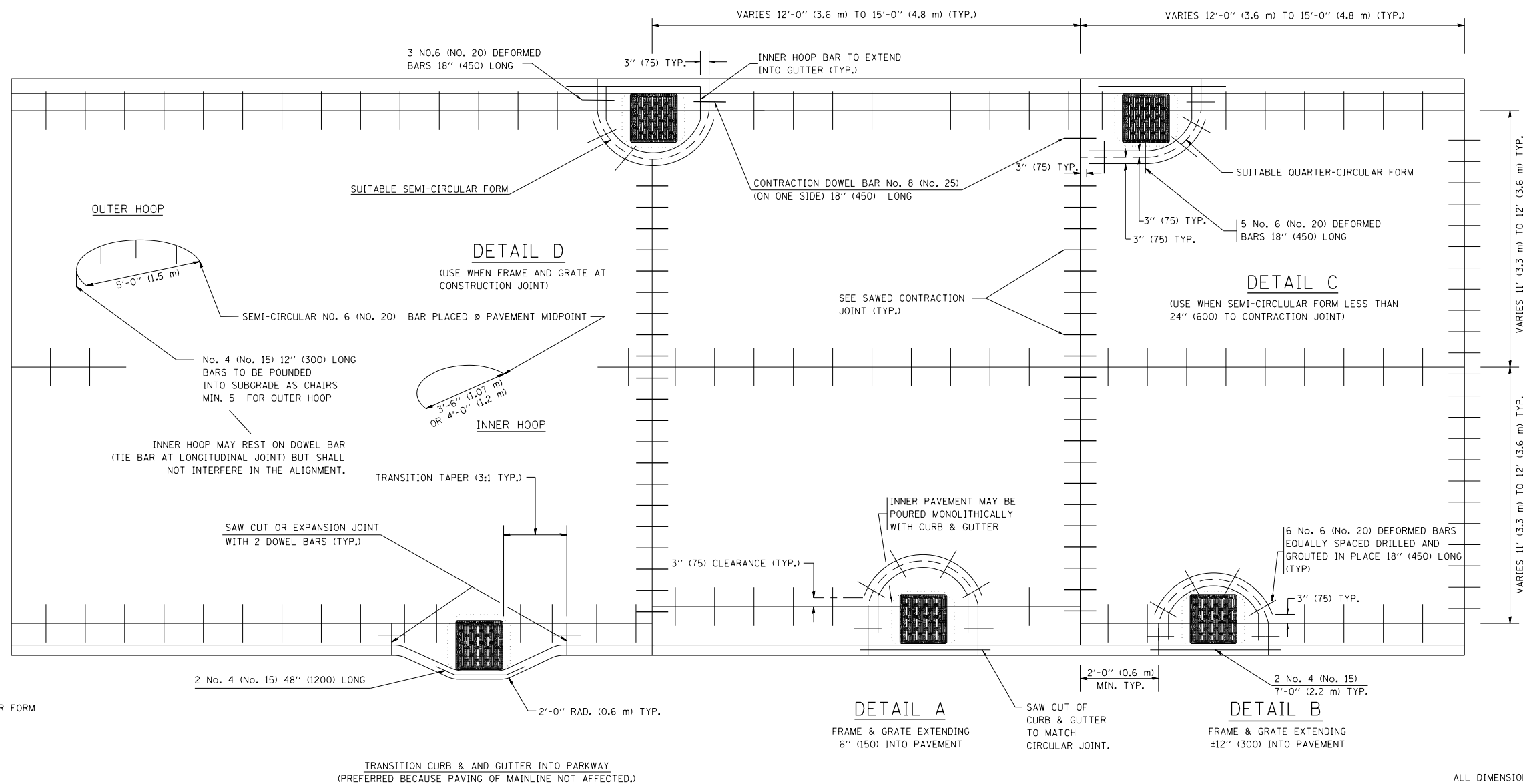


FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

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.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

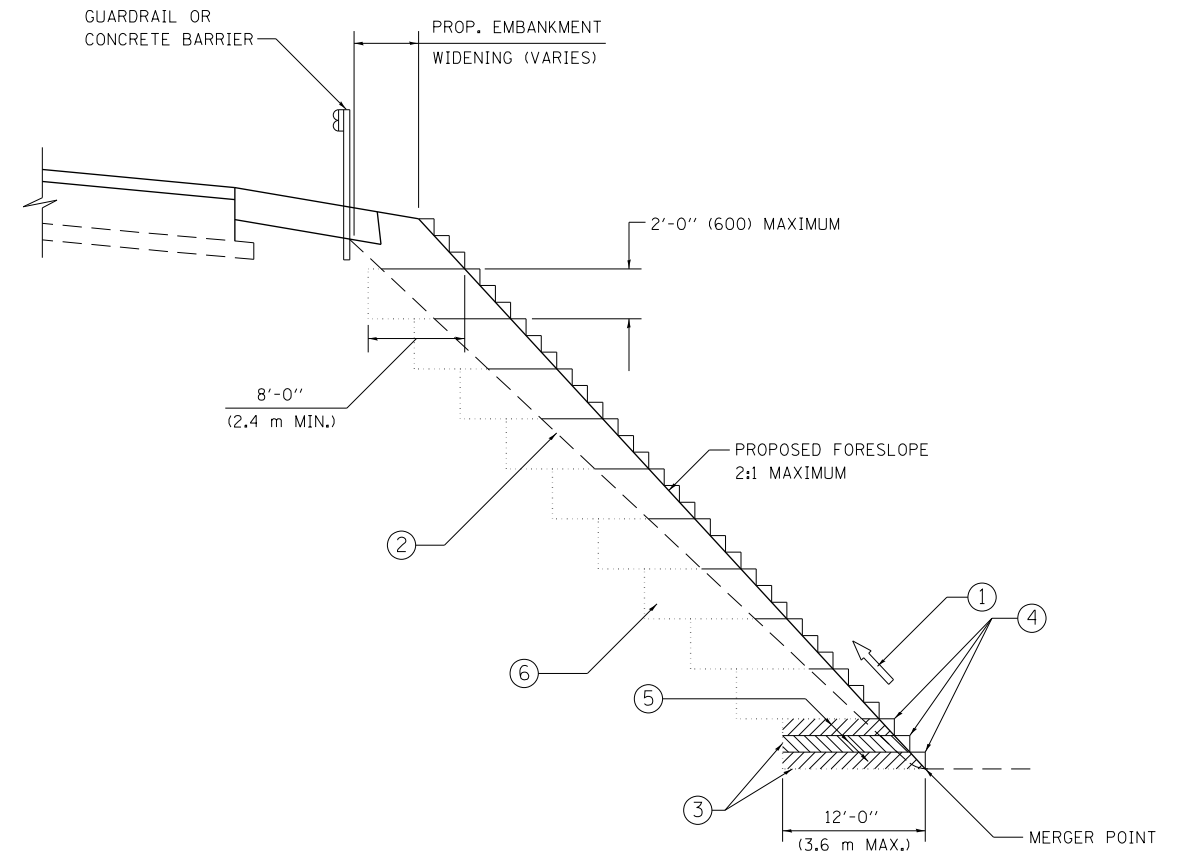
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pw:\388039\pwin\l.eacom\online.local\pwaecom\Documents\01 Americas\Transportation\00 DRAWN Circle\Photo\MI\WD\0506.Road\DESIGNED\60W29.CMAA\US610102H001\Detail-06.dgn		CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02
		DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS  
BD-48

SCALE: NONE SHEET NO. 6 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	356	314
BD-48			CONTRACT NO. 60W29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL BENCHING DETAIL  
FOR EMBANKMENT

NOTES:

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

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

FILE NAME =	USER NAME = BAWtor.t	DESIGNED -	REVISED -
pw:\388039-pwintl.aecom\lne.local\PWAE\COM\Documents\01 Americas\Transportation\60W29\60W29-011R\60W29-011R-000-CAD\006-Road\60W29-Contract\0160W29-SHT-DI\Detail-07.dgn		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

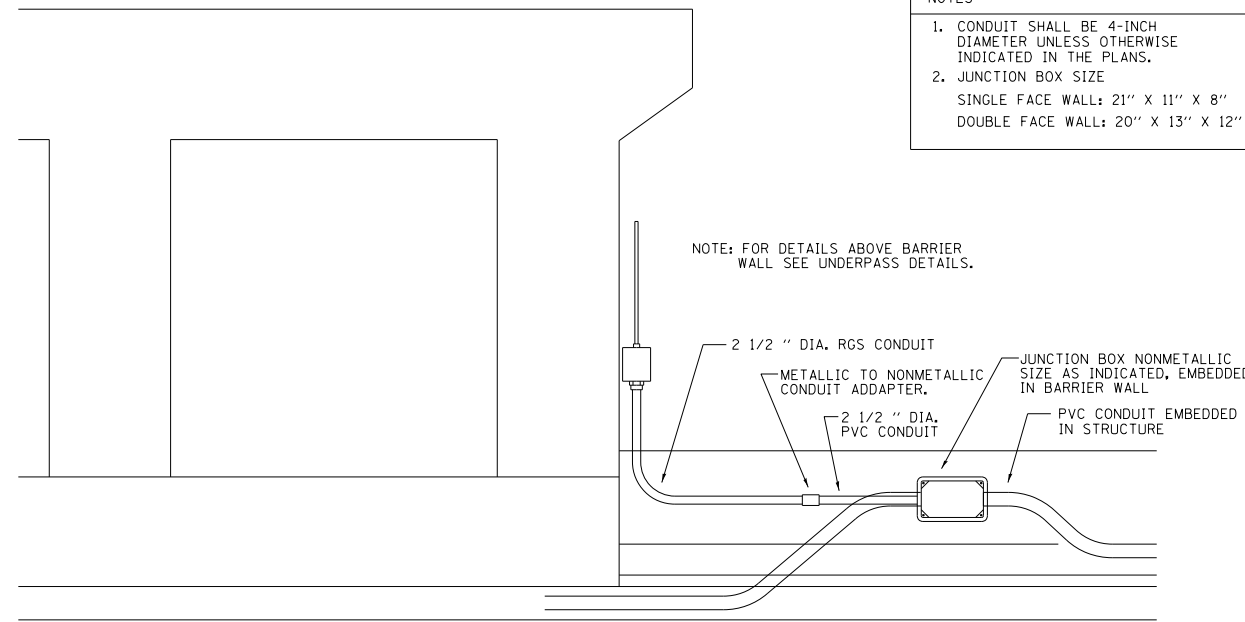
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS  
BD-51

SCALE: NONE SHEET NO. 7 OF 22 SHEETS STA. TO STA.

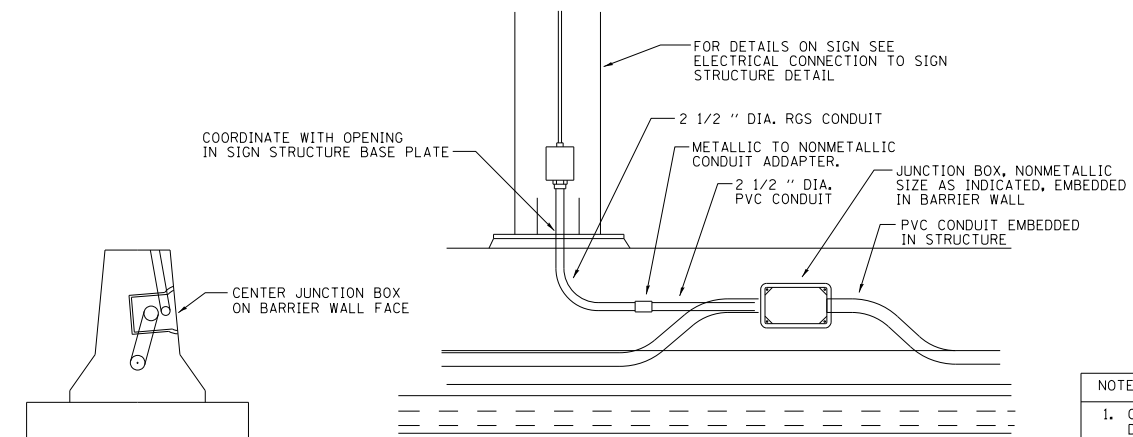
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•	2013-011R	COOK	356	315
BD-51			CONTRACT NO. 60W29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





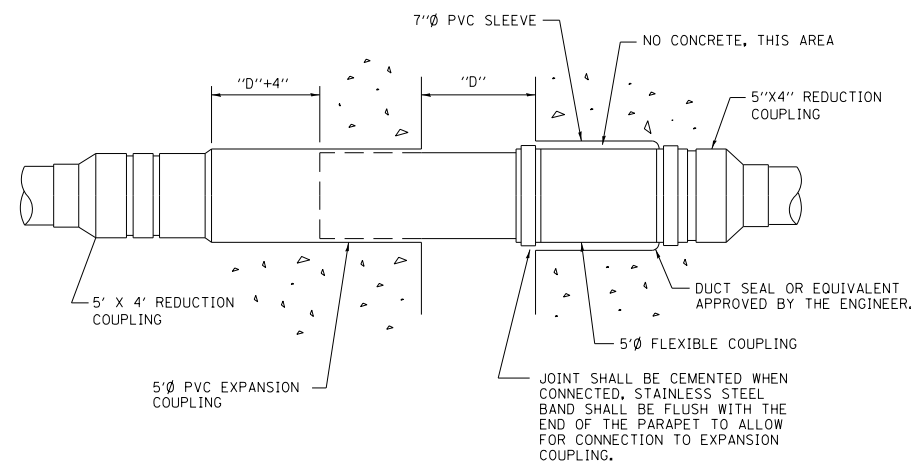
- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BWD  
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

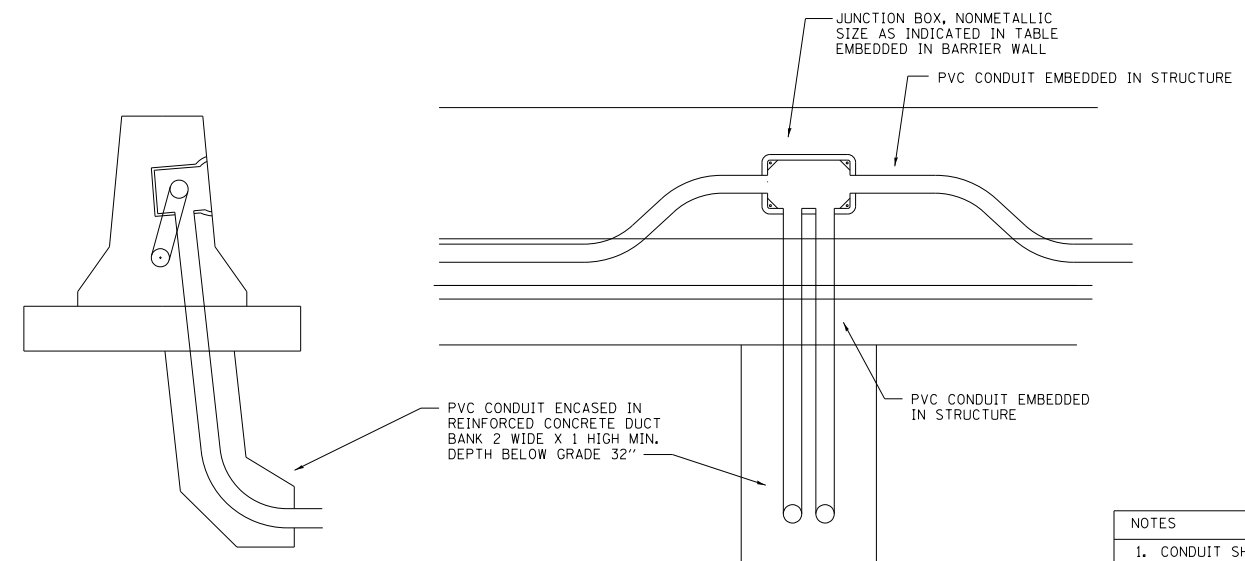


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

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



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



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

ED - BW  
JUNCTION BOX EMBEDDED IN BARRIER WALL

FILE NAME = D160W29-SHT-D1-Detail-09.dgn	USER NAME = BAW:ort	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/28/2013	DATE - 01-20-2009	REVISED -

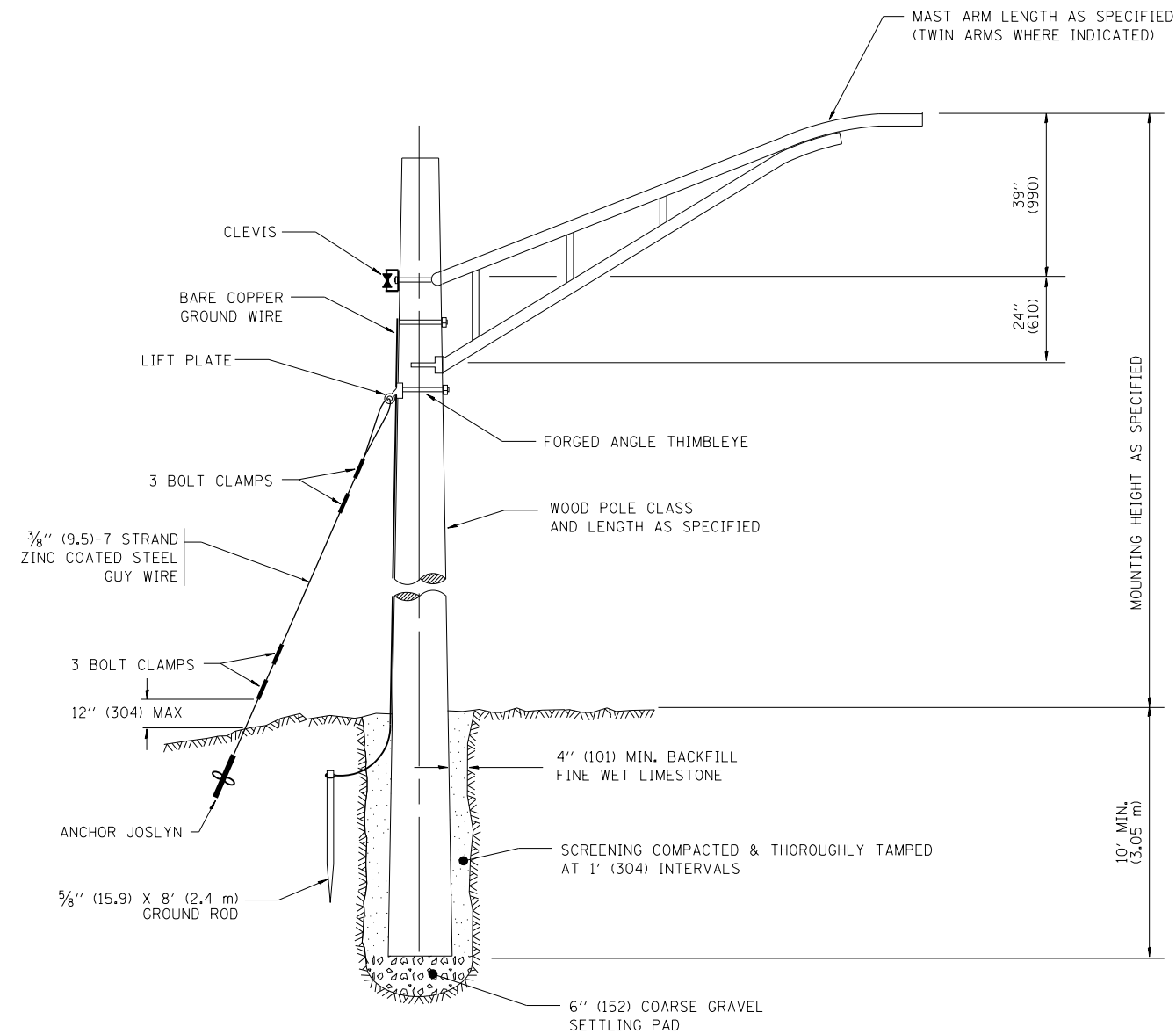
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS  
BE-703

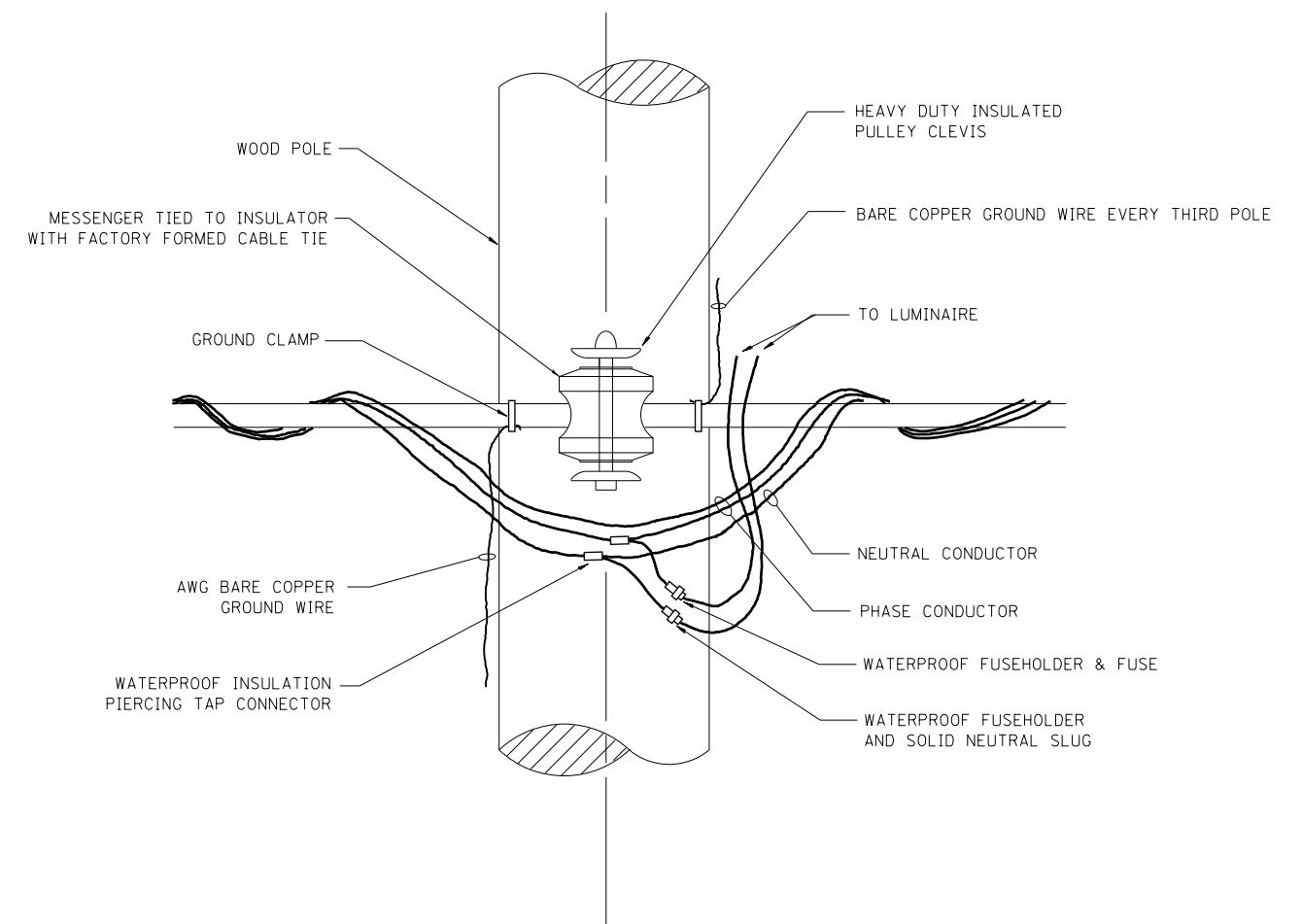
SCALE: NONE SHEET NO. 9 OF 22 SHEETS STA. TO STA.

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				





TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

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

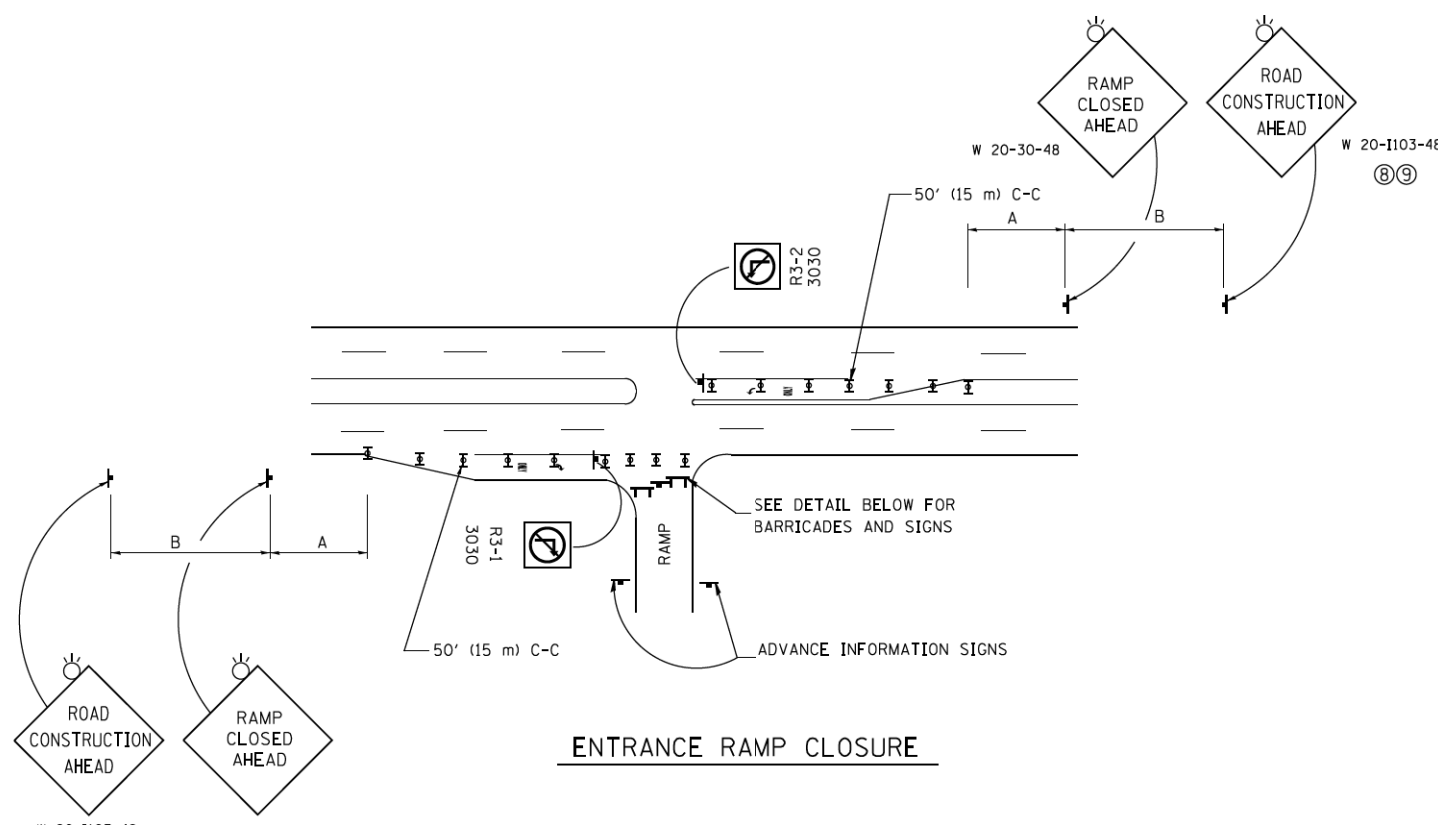
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PLOT SCALE = 100.000' / in.					CHECKED -	REVISED -	SCALE: NONE	SHEET NO. 11 OF 22 SHEETS	STA.	TO STA.	2013-011R	COOK	356	319
PLOT DATE = 10/28/2013					DATE -	REVISED -	CONTRACT NO. 60W29							
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT														
90/94/290														









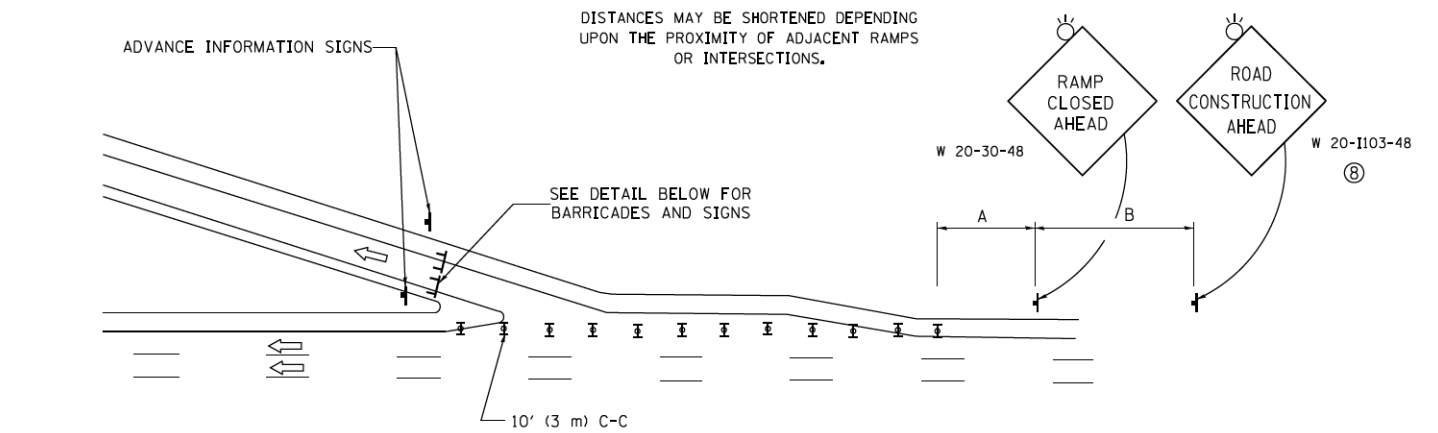


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

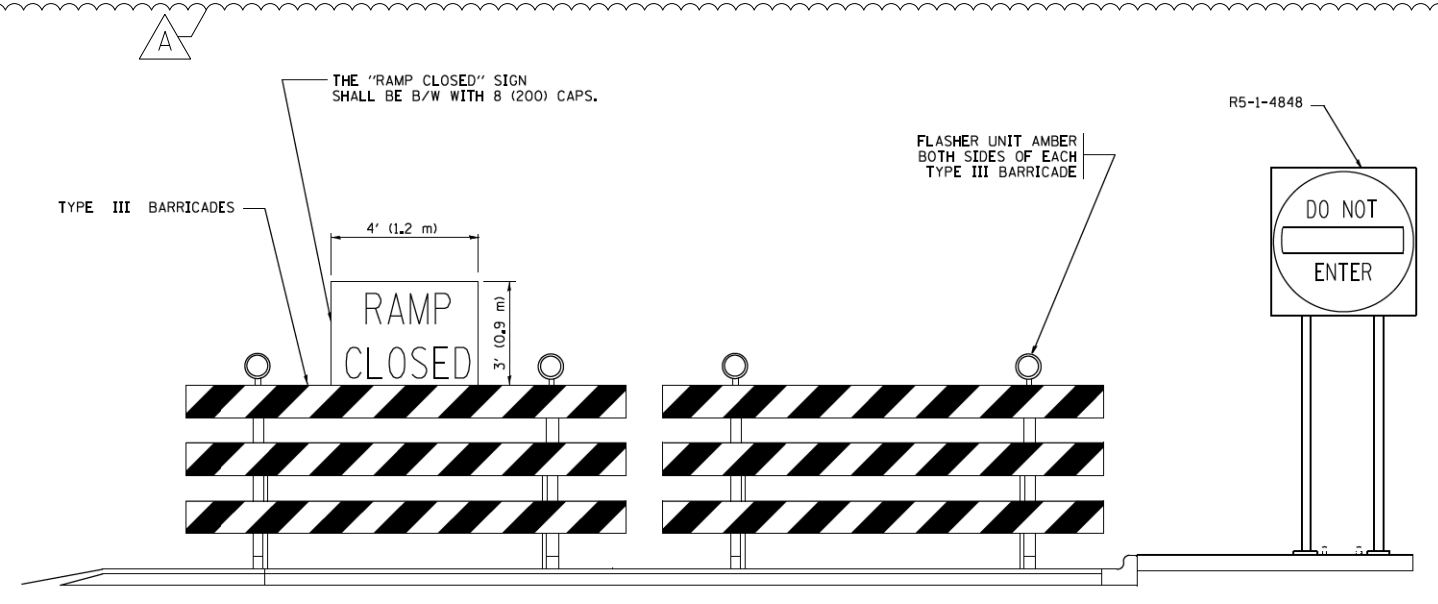
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

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

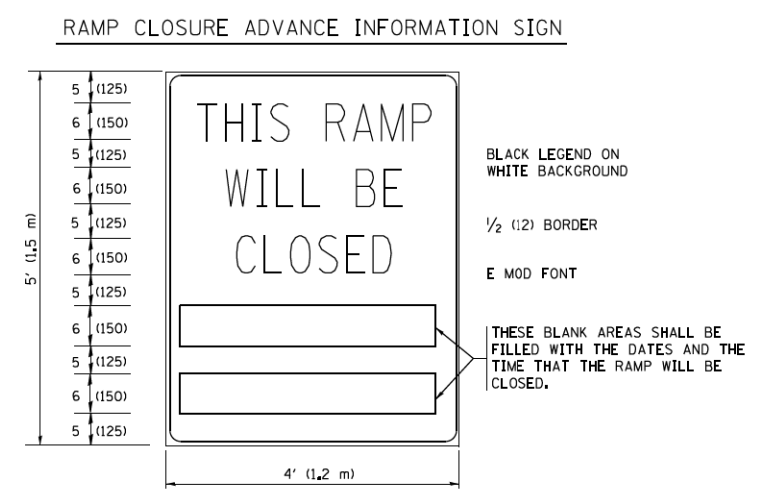
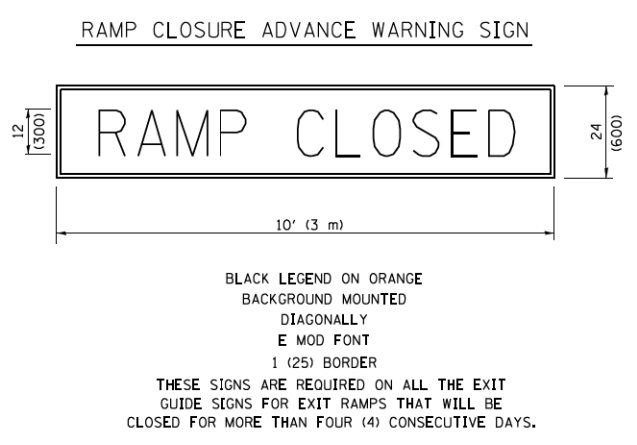


**EXIT RAMP CLOSURE**

- SYMBOLS**
- ⊓ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



**DETAIL FOR REQUIRED BARRICADES & SIGNS**



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.  
 THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② 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, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

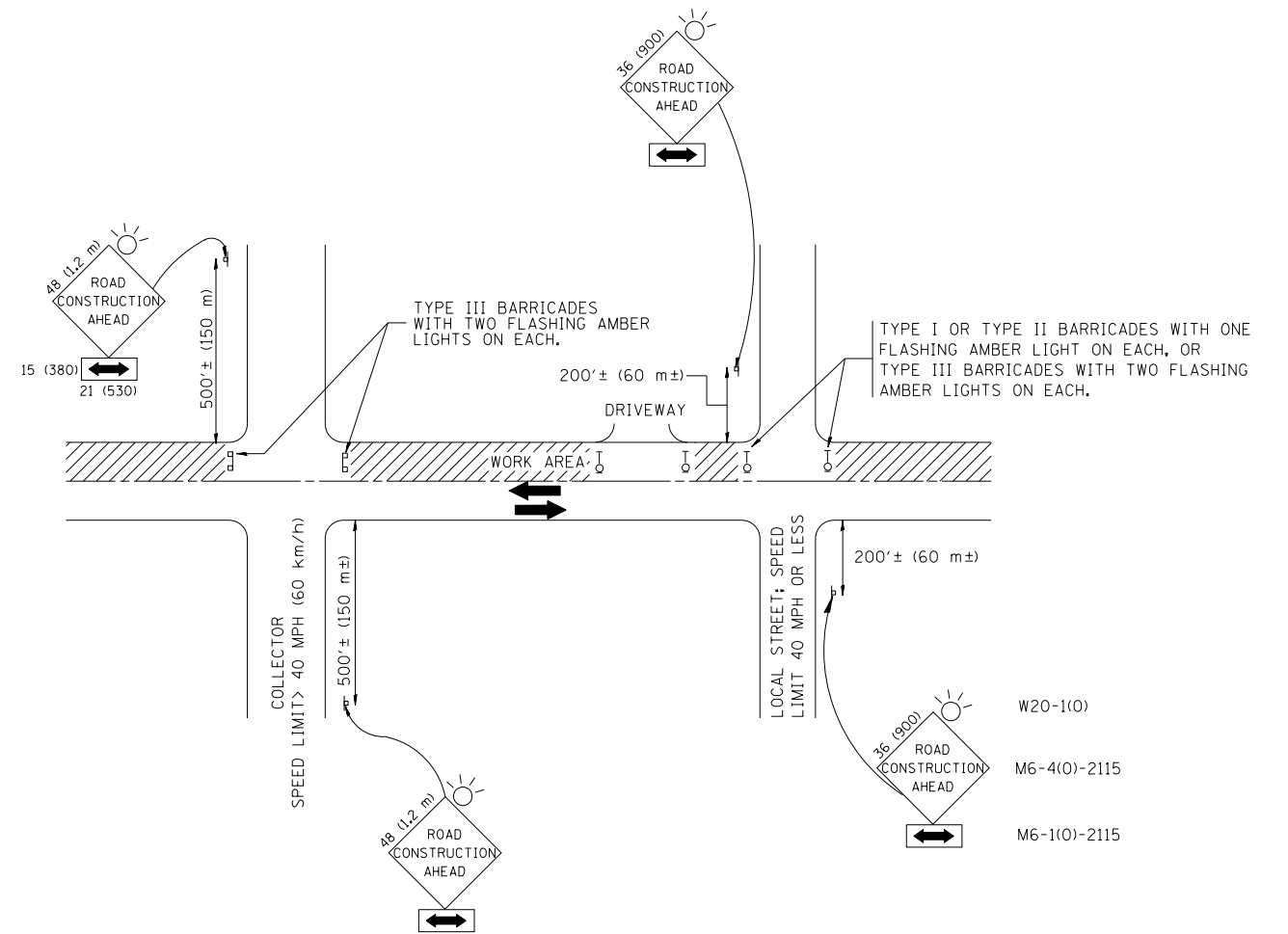
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ENTRANCE AND EXIT RAMP CLOSURE DETAILS</b>	DRAWN -	REVISED - SPB 01-07	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED - SPB 12-09			356	323		
		DATE - 02-83	REVISED - MD 06-13			CONTRACT NO. 60W29			
						FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT			

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

F.A. RTE. SECTION COUNTY COOK 90/94/290





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.

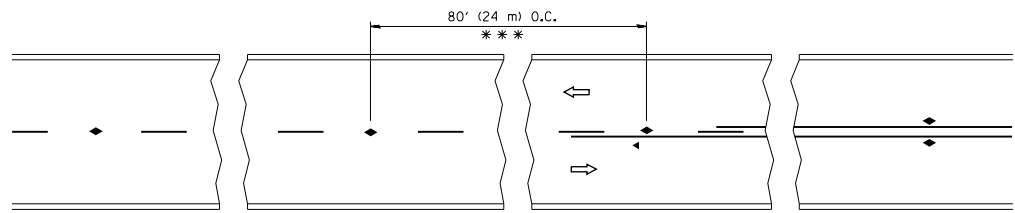
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PLOT SCALE = 100.000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96	
PLOT DATE = 10/28/2013	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS  
TC-10

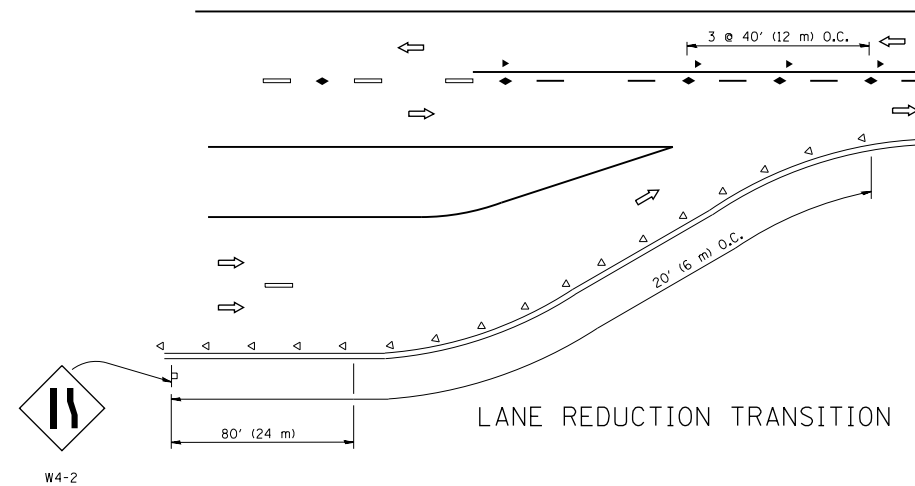
SCALE: NONE SHEET NO. 17 OF 22 SHEETS STA. TO STA.

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

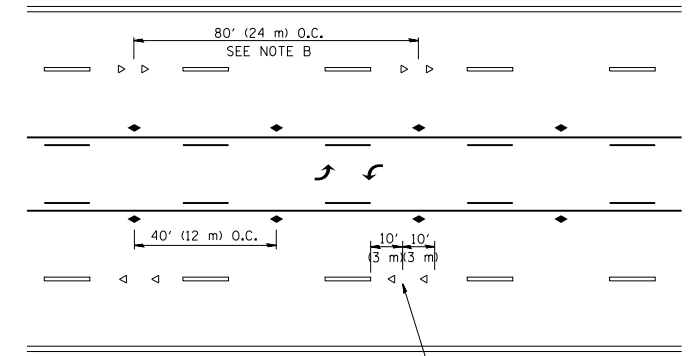


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

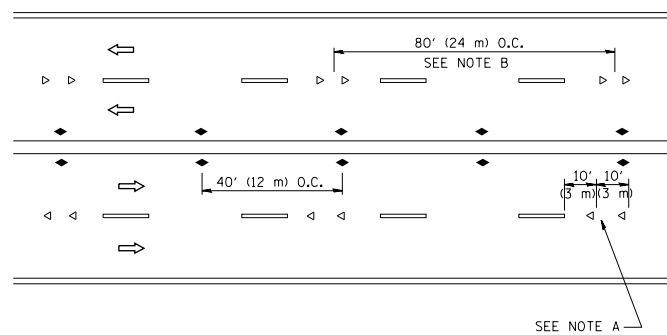
TWO-LANE/TWO-WAY



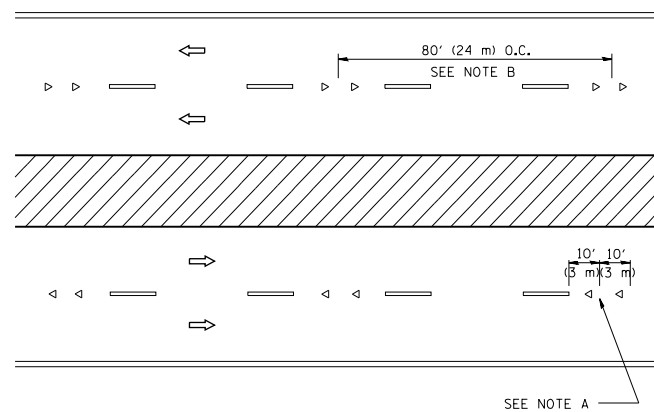
LANE REDUCTION TRANSITION



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

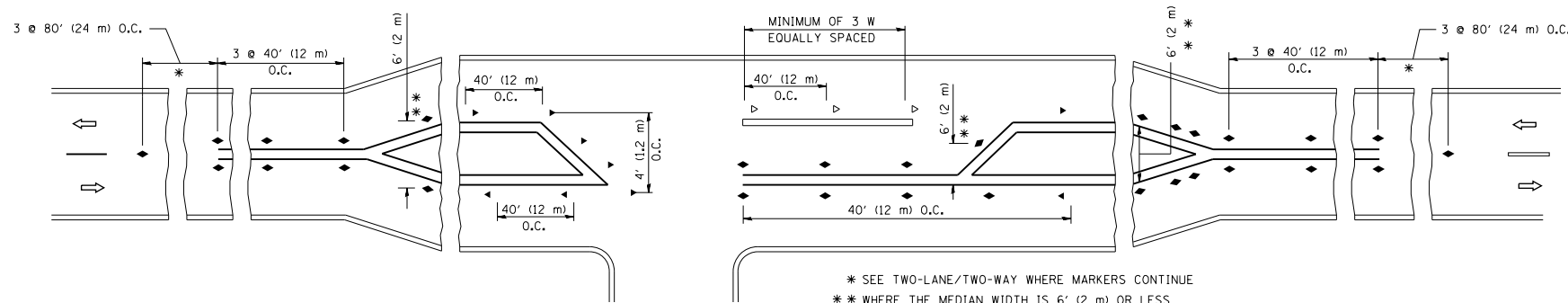
- YELLOW STRIPE
- WHITE STRIPE
- ◄ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

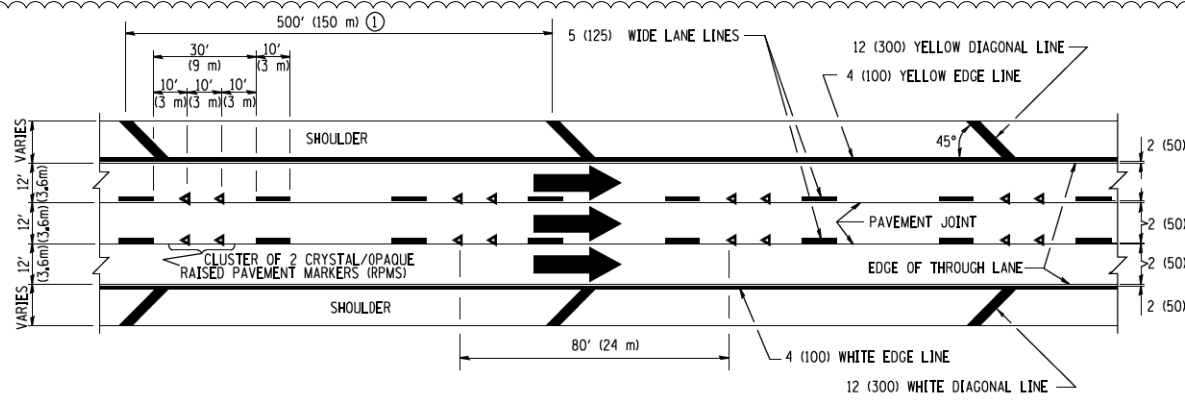
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	PLOT SCALE = 100.000' / in.	DATE -	REVISED - C. JUCIUS 09-09-09
	PLOT DATE = 10/28/2013		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS  
 TC-11

SCALE: NONE SHEET NO. 18 OF 22 SHEETS STA. TO STA.

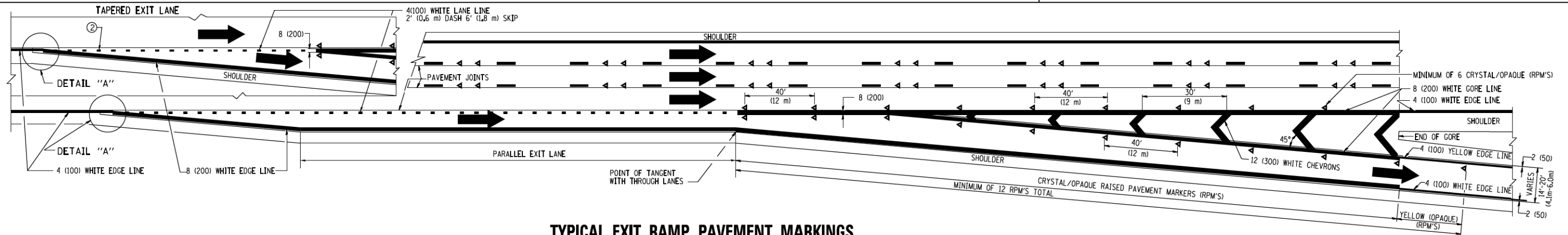
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2013-01R	COOK	356	326
TC-11		CONTRACT NO. 60W29		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
• 90/94/290				



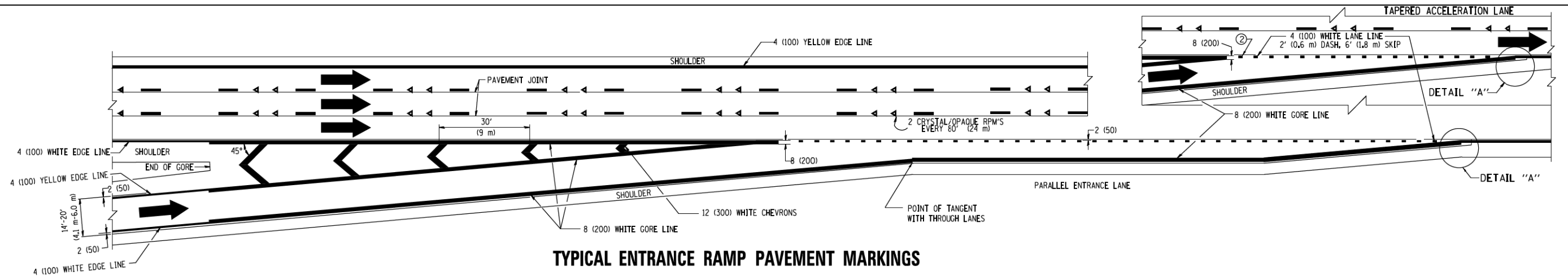
**TYPICAL EDGE LINES & LANE LINES**

**PAVEMENT MARKING MATERIALS**

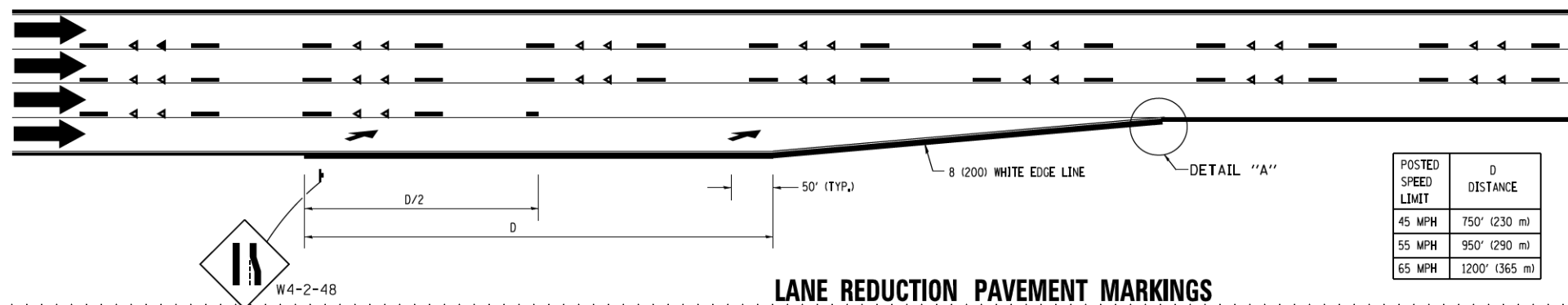
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



**TYPICAL EXIT RAMP PAVEMENT MARKINGS**

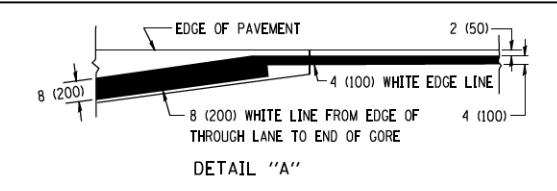


**TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS**

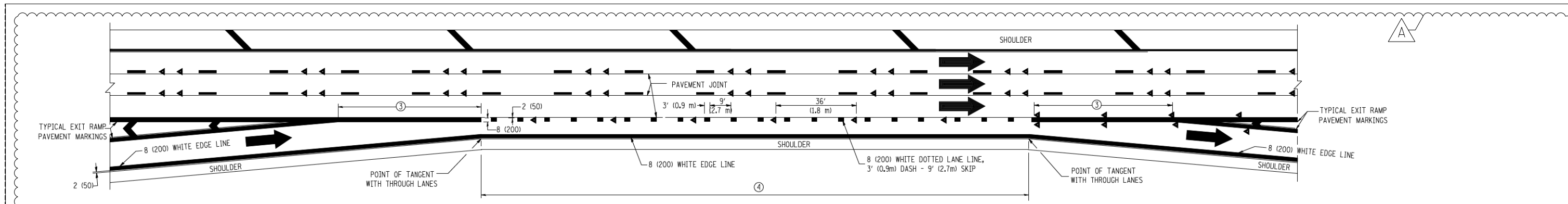


**LANE REDUCTION PAVEMENT MARKINGS**

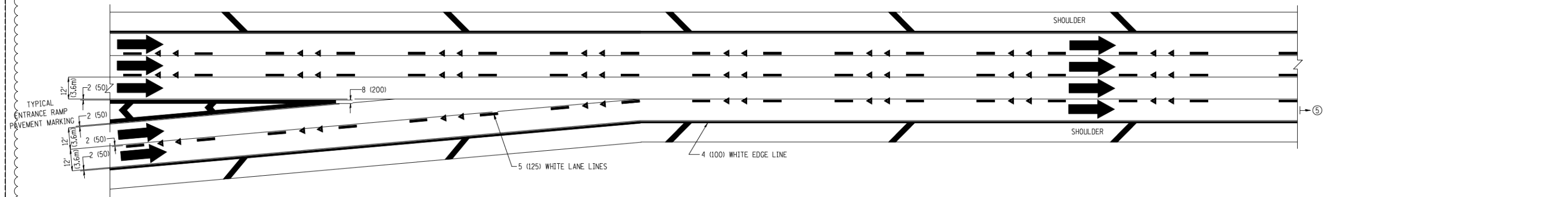
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



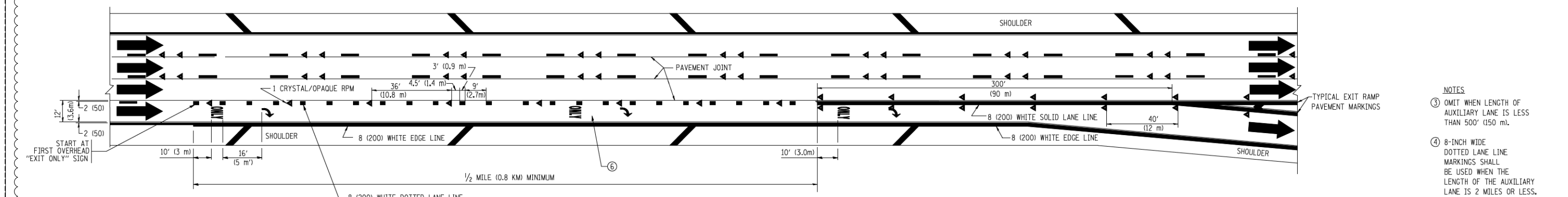
- NOTES:**
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
  - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED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



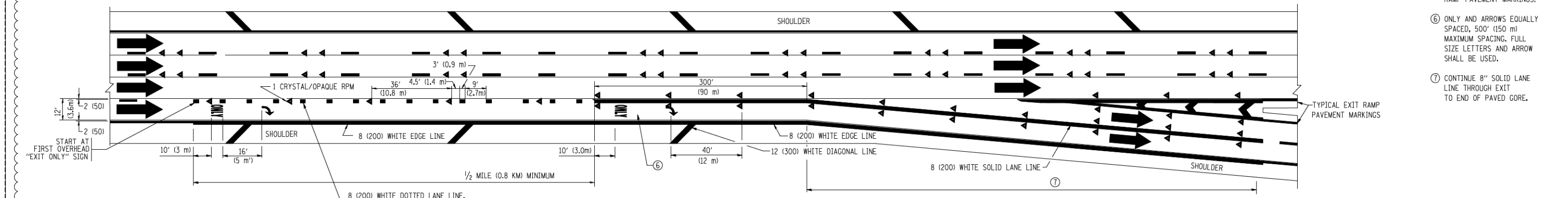
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
  - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME =	USER NAME = lrysa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
ct:\pw\work\PIWIDOT\LEYSAd0108315\to12.dgn		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

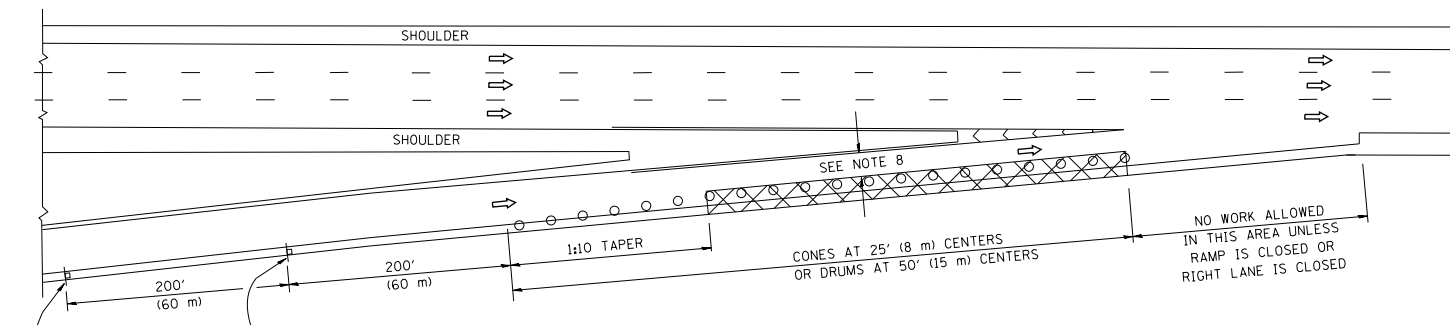
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS</b>			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

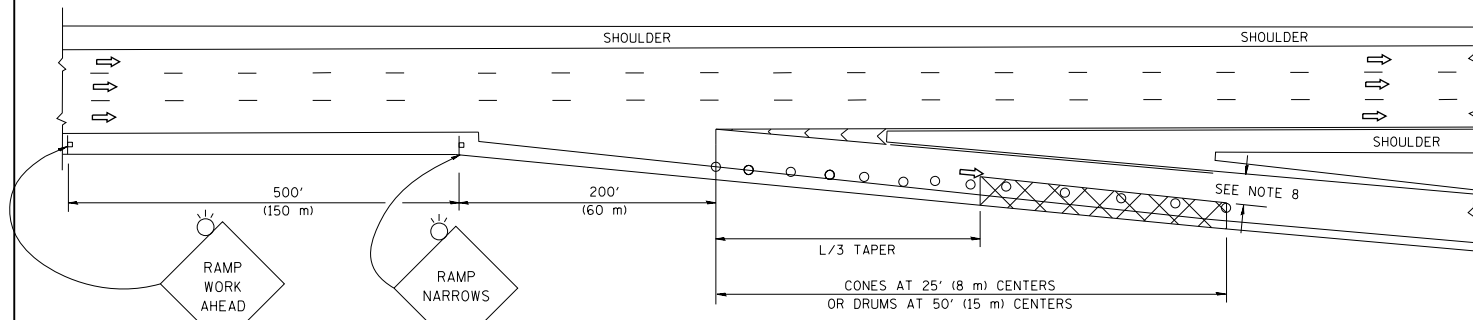
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	356	328
<b>TC-12</b>		CONTRACT NO. 60W29		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



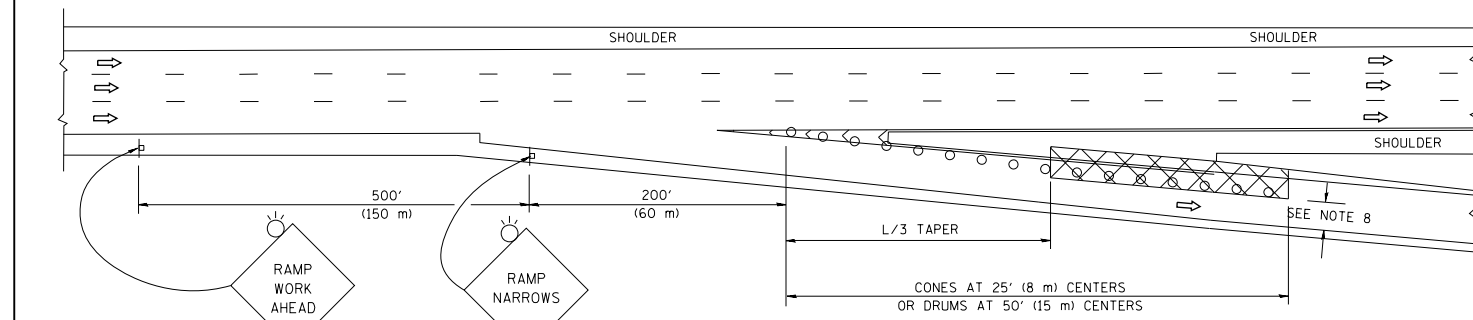
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

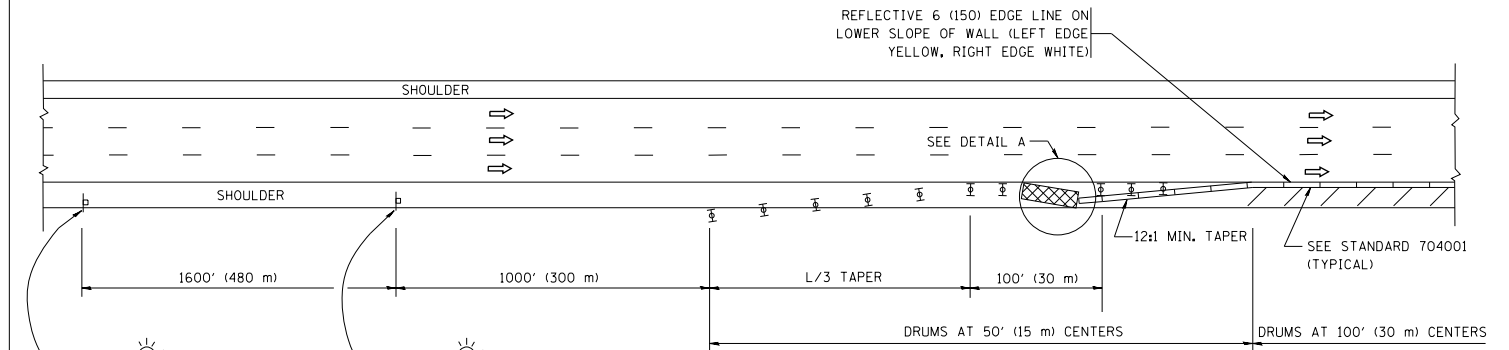
SYMBOLS

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

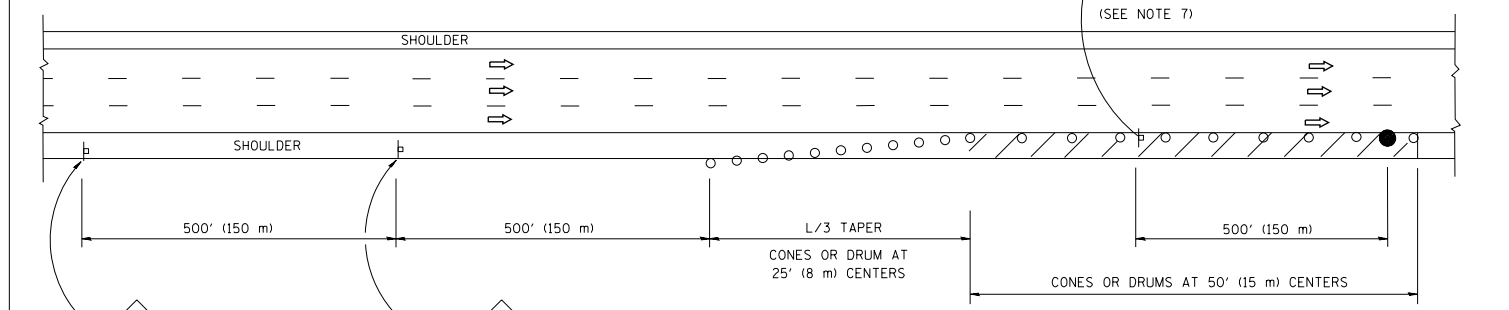
GENERAL NOTES

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.

SHOULDER CLOSURE DETAILS

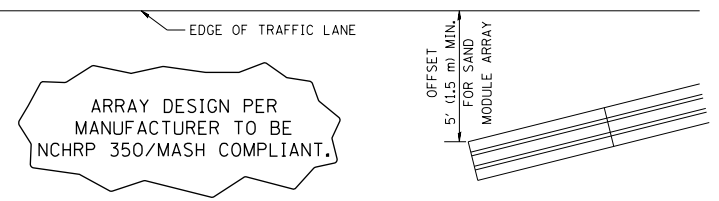


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH 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)

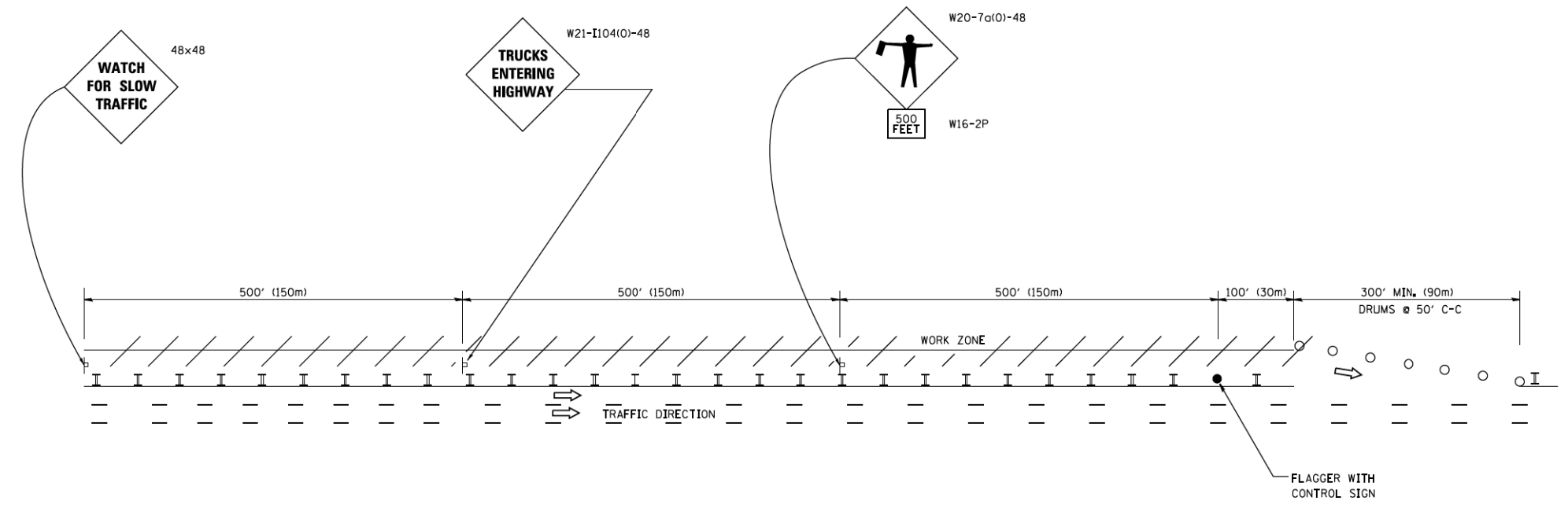
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL 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 ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12" MIN. WIDTH TANGENT SECTION  
 16" MIN. WIDTH CURVE SECTION

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

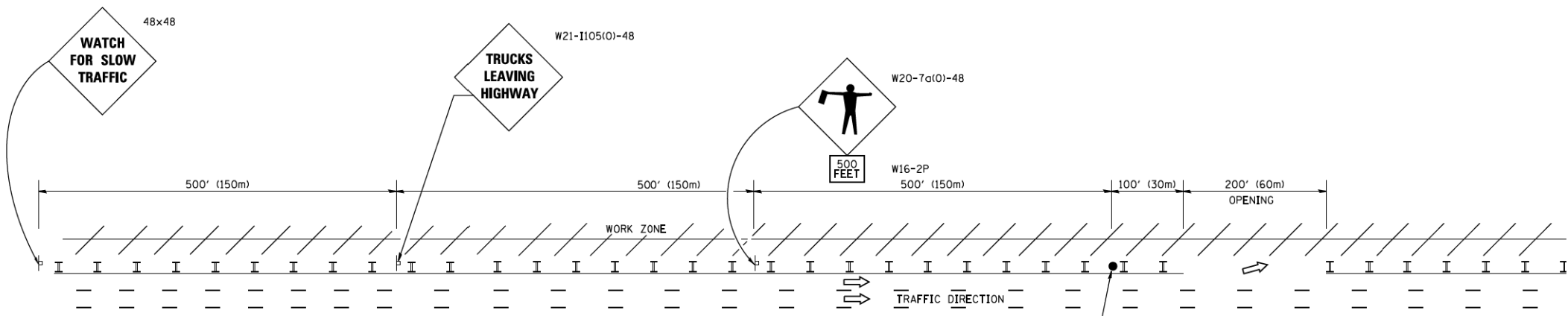
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		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2013-011R	COOK	356	329	
		CHECKED -	REVISED - S.P.B. 12-09						TC-17				
		DATE - 11-96	REVISED - M.D. 06-13						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT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

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



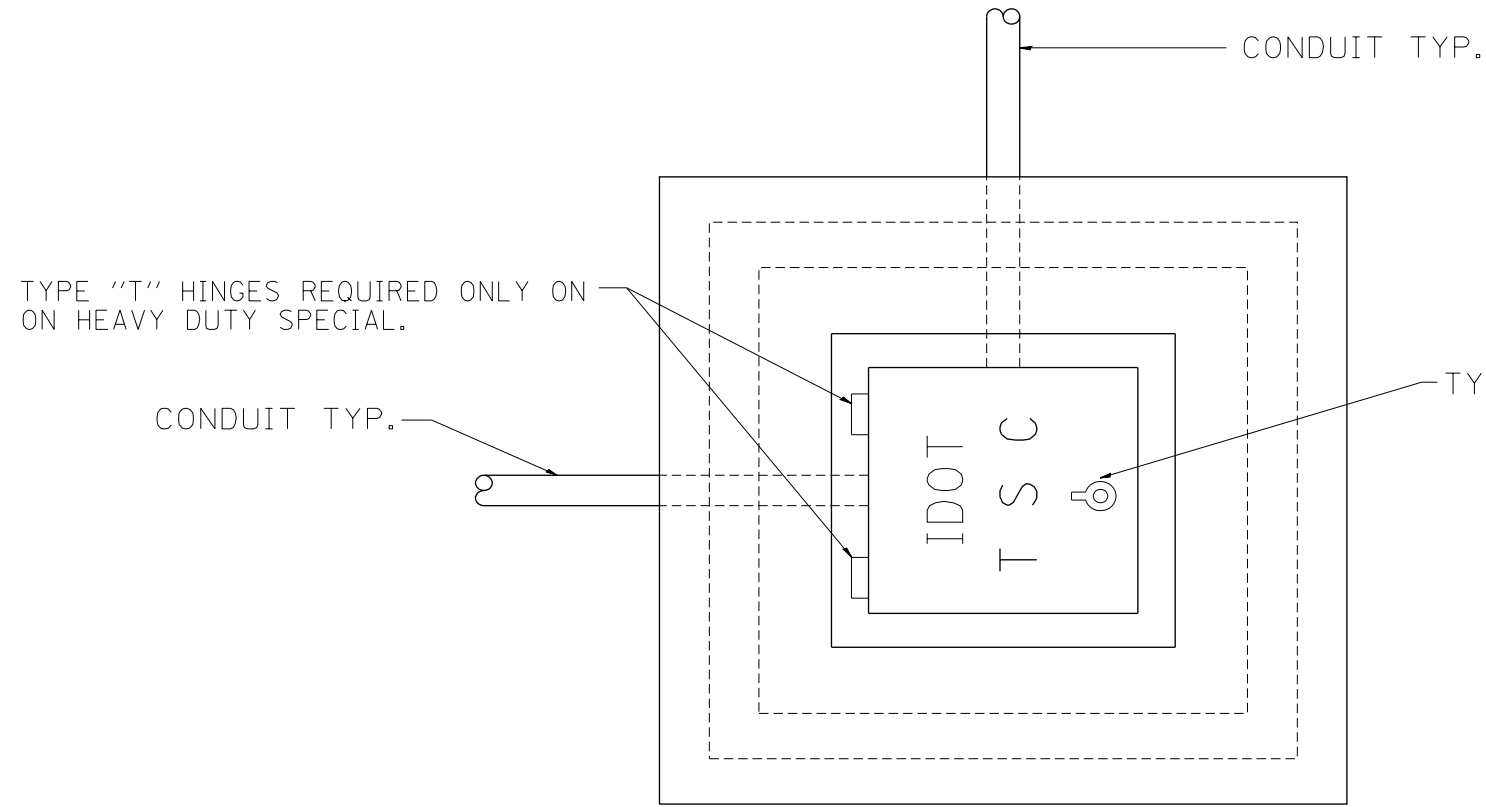
NOTES:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAY/EXPRESSWAYS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\pwork\footemj\d0108315\tcl18.dgn		DRAWN -	REVISED - S.P.B. 01-07				2013-01R	COOK	356	330	
	PLOT SCALE = 50.000' / 1in.	CHECKED -	REVISED - S.P.B. 12-09			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60W29	
	PLOT DATE = 7/8/2013	DATE -	REVISED - M.D. 06-13							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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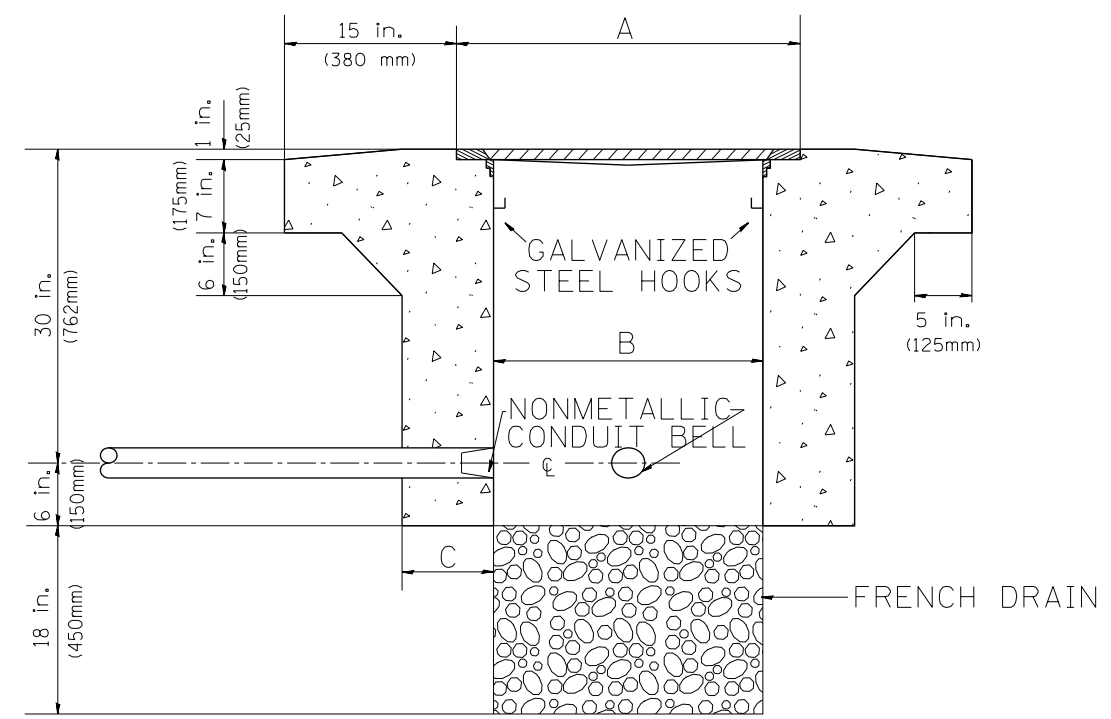


PLAN

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

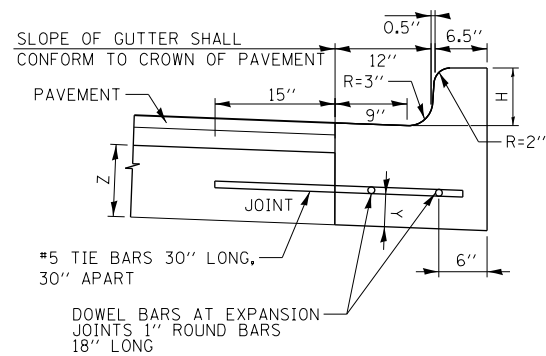
HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

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

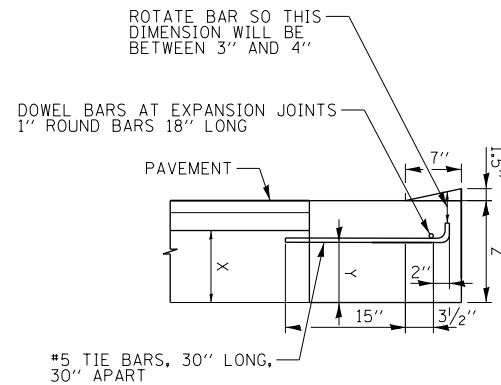
(FRAME AND COVER 405 LBS. (184 Kg. (405))

PC CONCRETE - HEAVY DUTY HAND HOLE

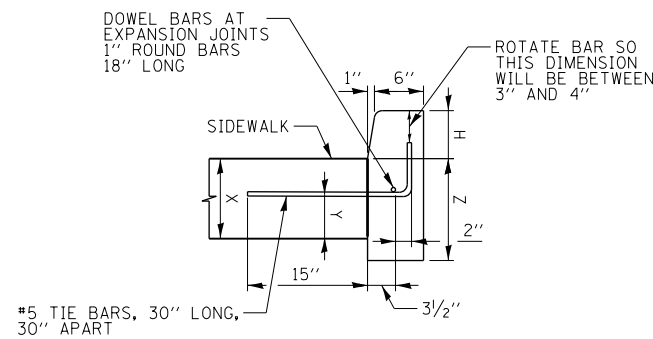
FILE NAME = D160W29-sht-ITS-04	USER NAME = BAW:ort	DESIGNED - R.L.	REVISED - 04/97	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> TRAFFIC SYSTEMS CENTER	<b>IDOT TRAFFIC SYSTEMS CENTER STANDARD DRAWINGS</b> <b>TY-1TSC-400#15</b>	F.A.I. RTE. = 90/94/290	SECTION = 2013-01R	COUNTY = COOK	TOTAL SHEETS = 356	SHEET NO. = 331		
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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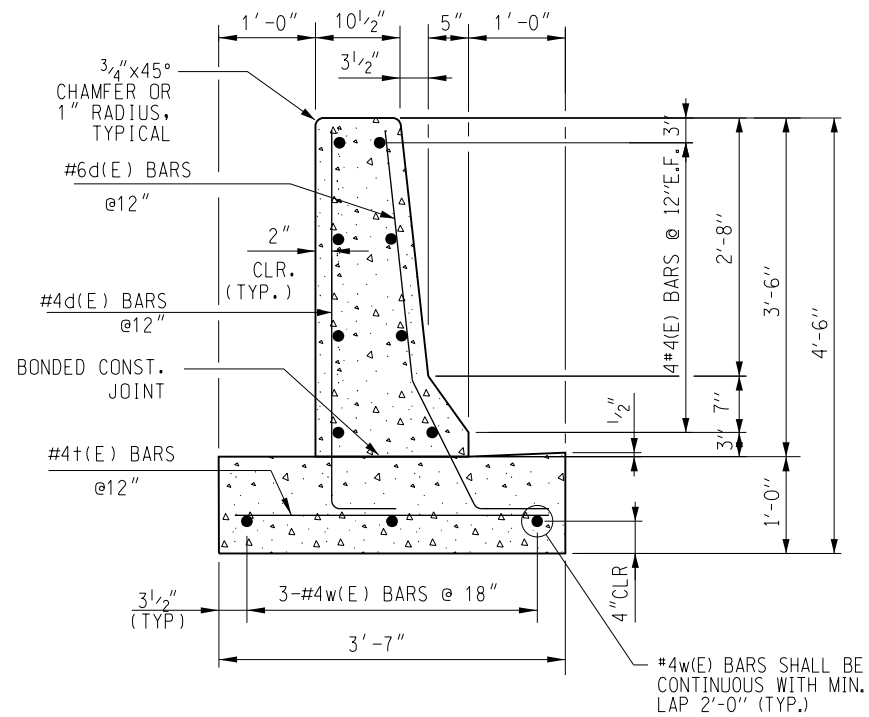
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

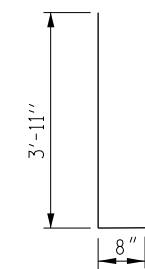
ROADWAY DETAILS			
COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT) AND CONCRETE CURB, TYPE B (SPECIAL) (CDOT)			
SCALE: NONE	SHEET 1	OF 5 SHEETS	STA. TO STA.

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				

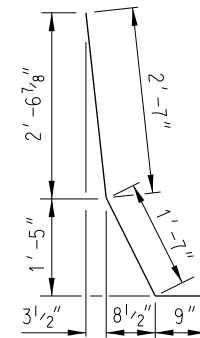
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**CONCRETE BARRIER WALL (SPECIAL)**



**#4d(E) BAR**

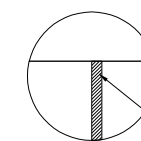


**#6d(E) BAR**

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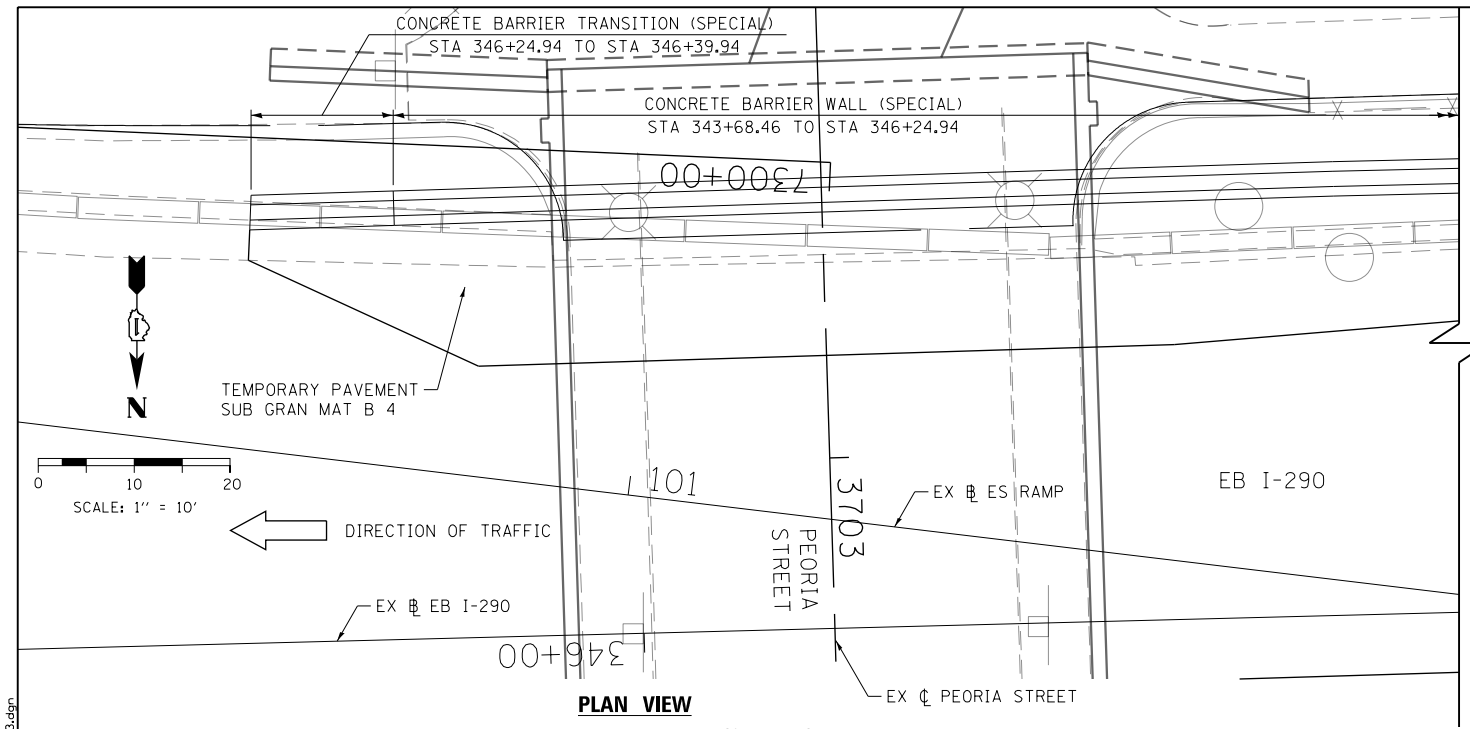
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

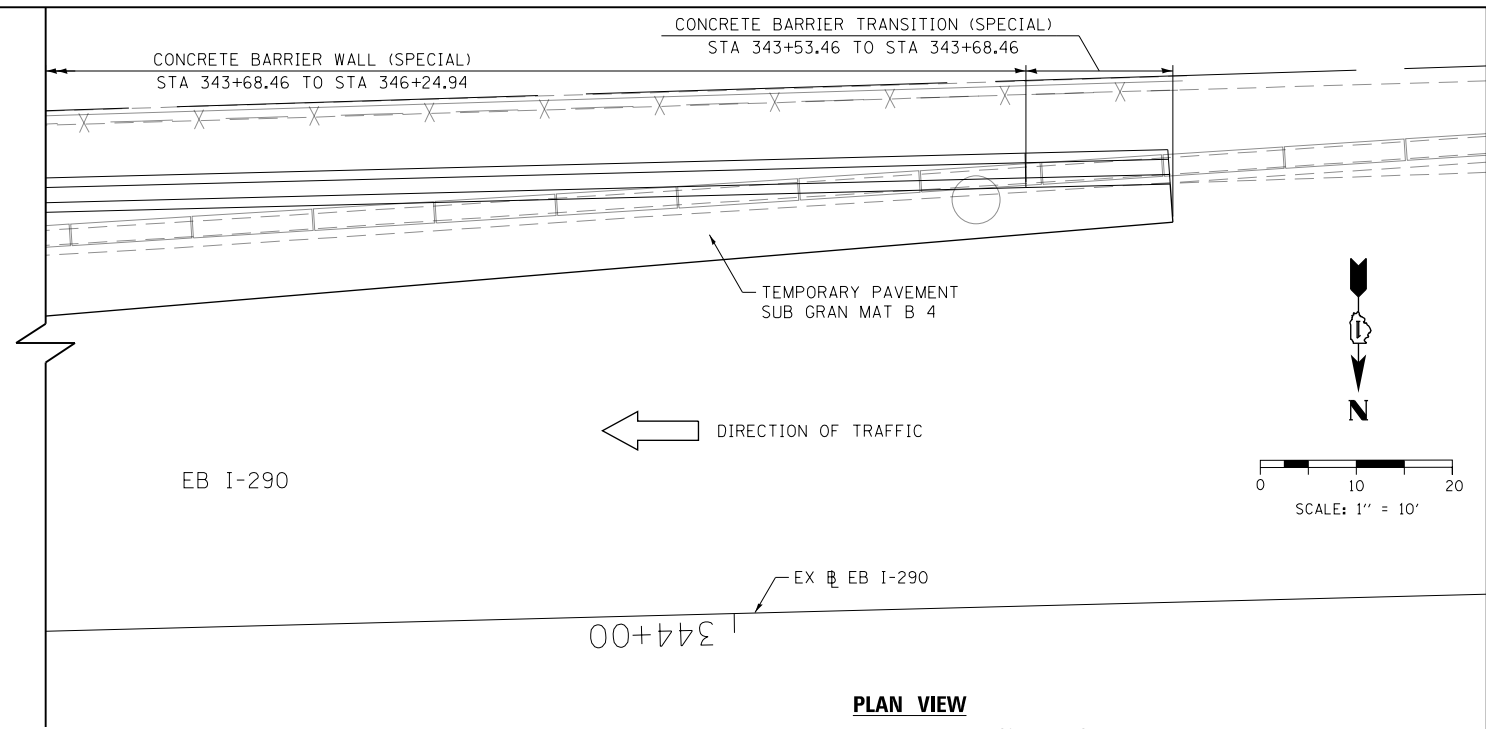
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	333
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	

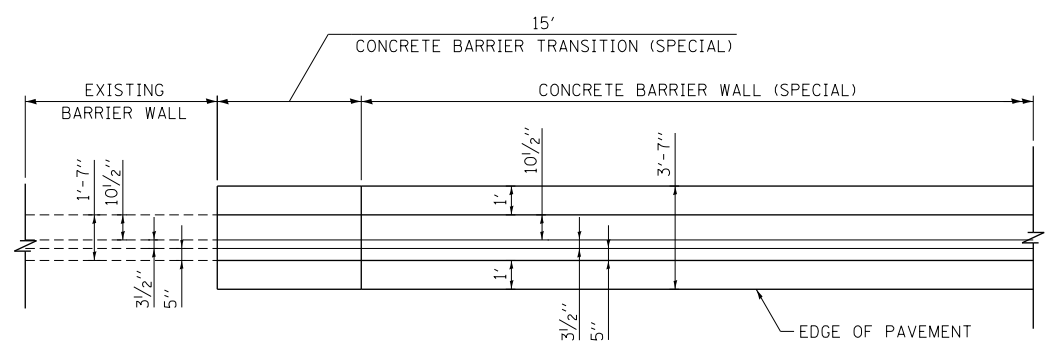
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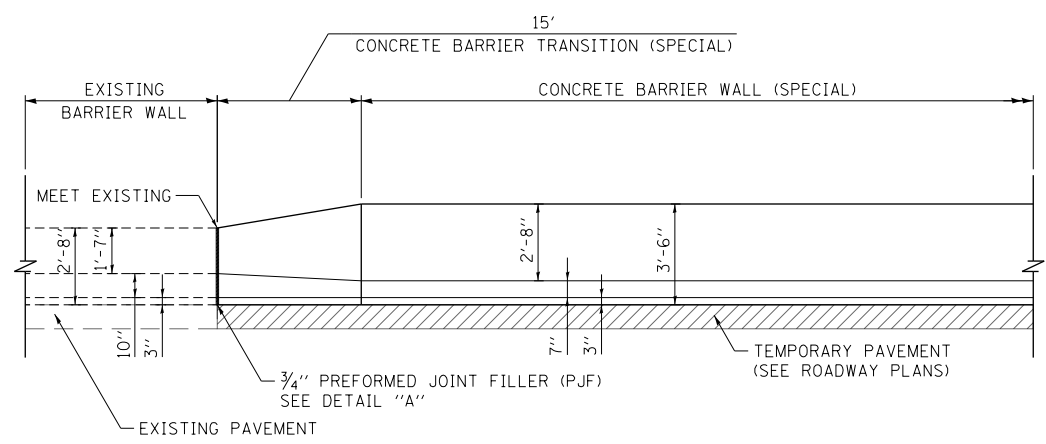
**PLAN VIEW  
CONCRETE BARRIER WALL (SPECIAL)  
AT EB I-290**



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



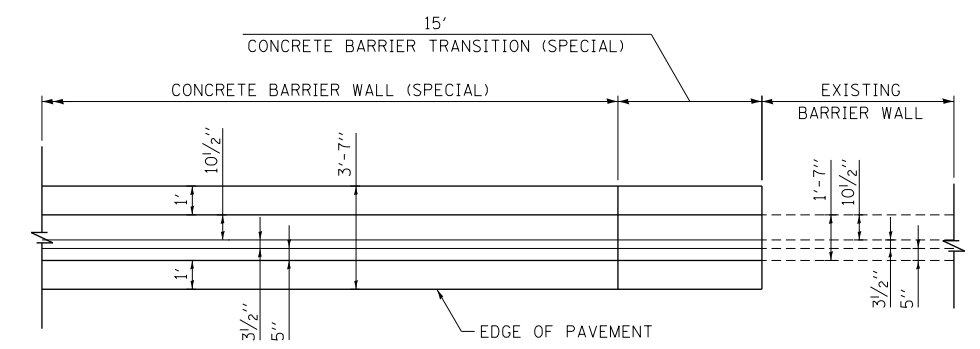
**PLAN VIEW  
N.T.S.**



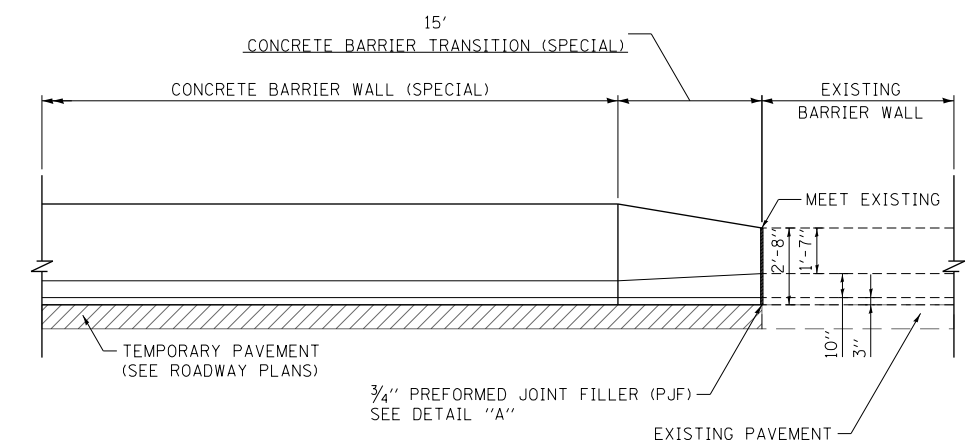
**ELEVATION VIEW  
N.T.S.**

**NOTES:**

1. EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER SHALL MEET AASHTO DESIGNATION M-33.
2. ALL WORK DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
3. PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION.
4. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
5. 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.
6. 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.
7. SEE ROADWAY DETAILS SHEETS 1 AND 2 FOR ADDITIONAL DETAILS.
8. SEE TYPICAL SECTION SHEET 3 FOR TEMPORARY PAVEMENT DETAILS.



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



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



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DATE - 10/30/2013

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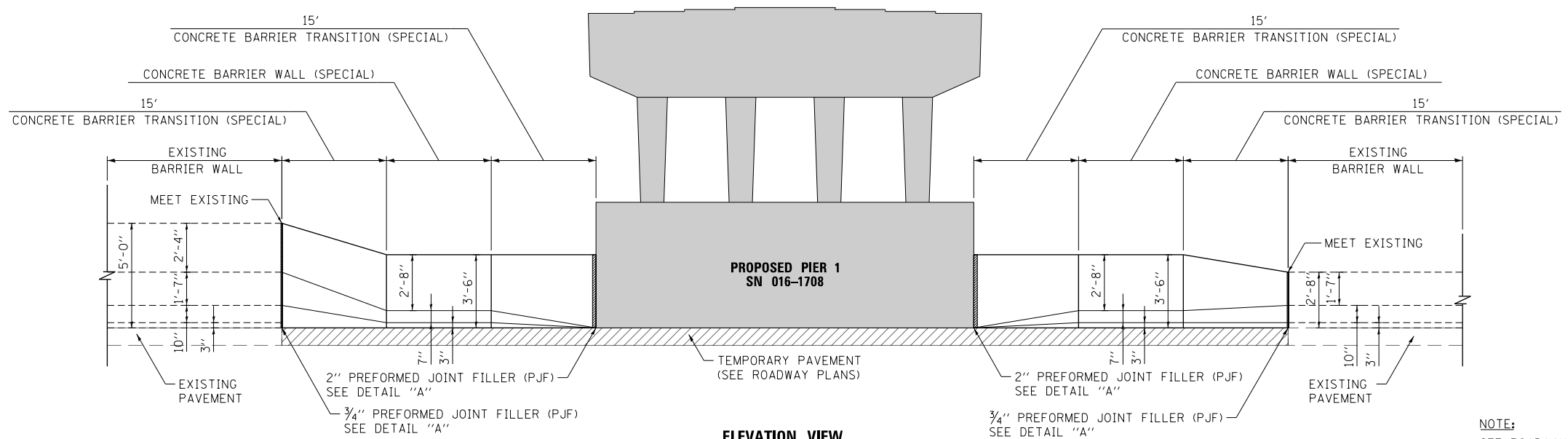
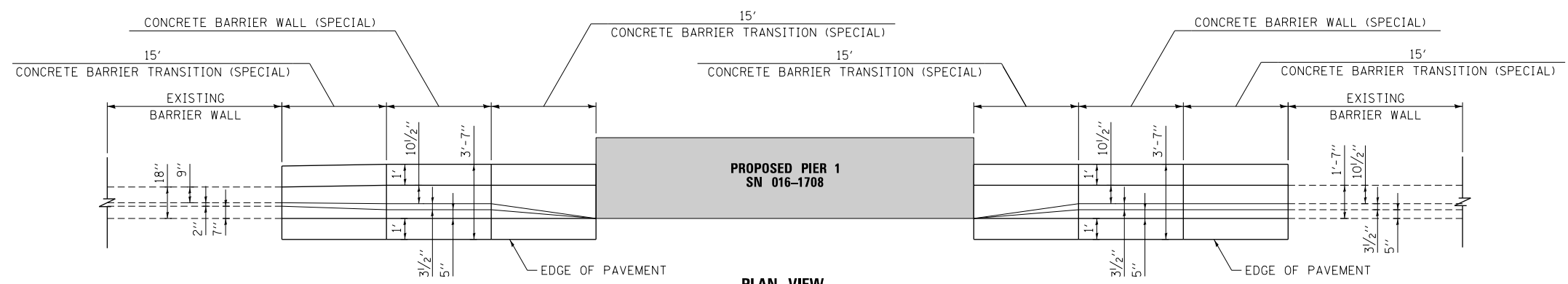
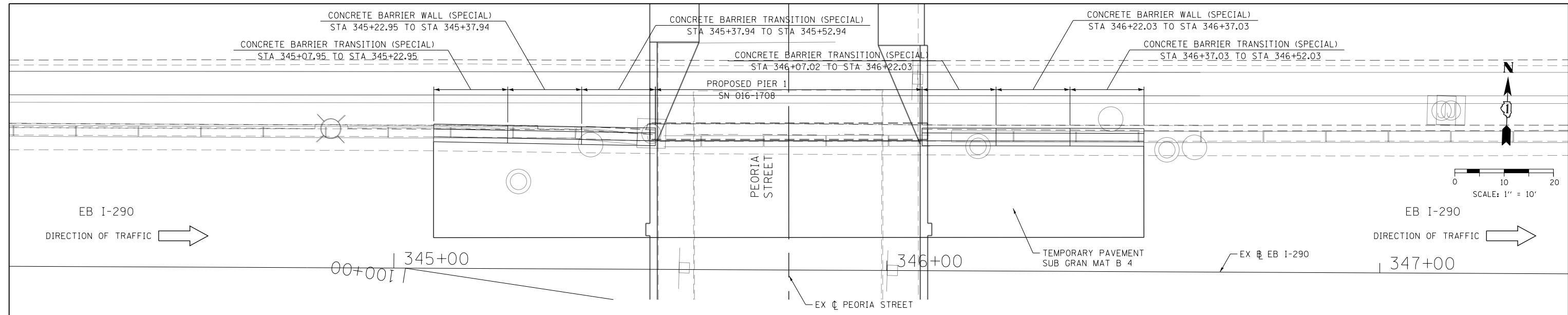
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS**

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

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

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**NOTE:**  
 SEE ROADWAY DETAILS SHEET 1 FOR ADDITIONAL NOTES.

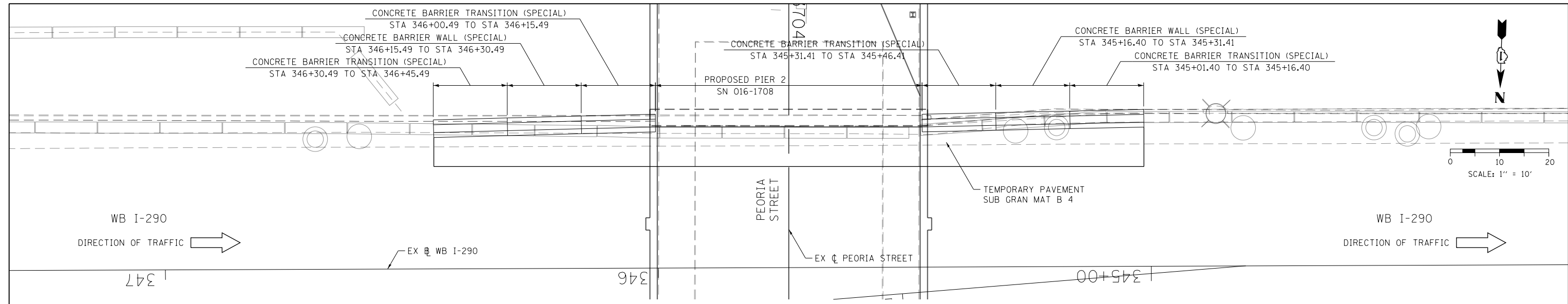


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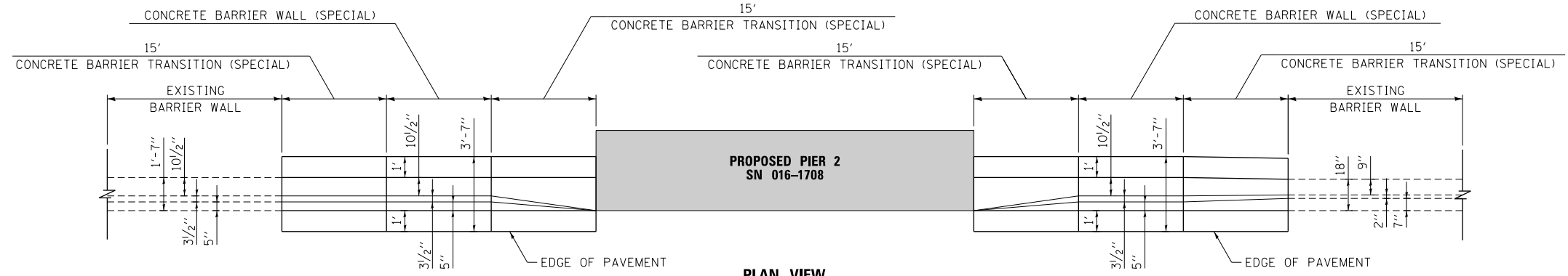
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY DETAILS</b>			
SCALE: NONE	SHEET 4	OF 5 SHEETS	STA. TO STA.

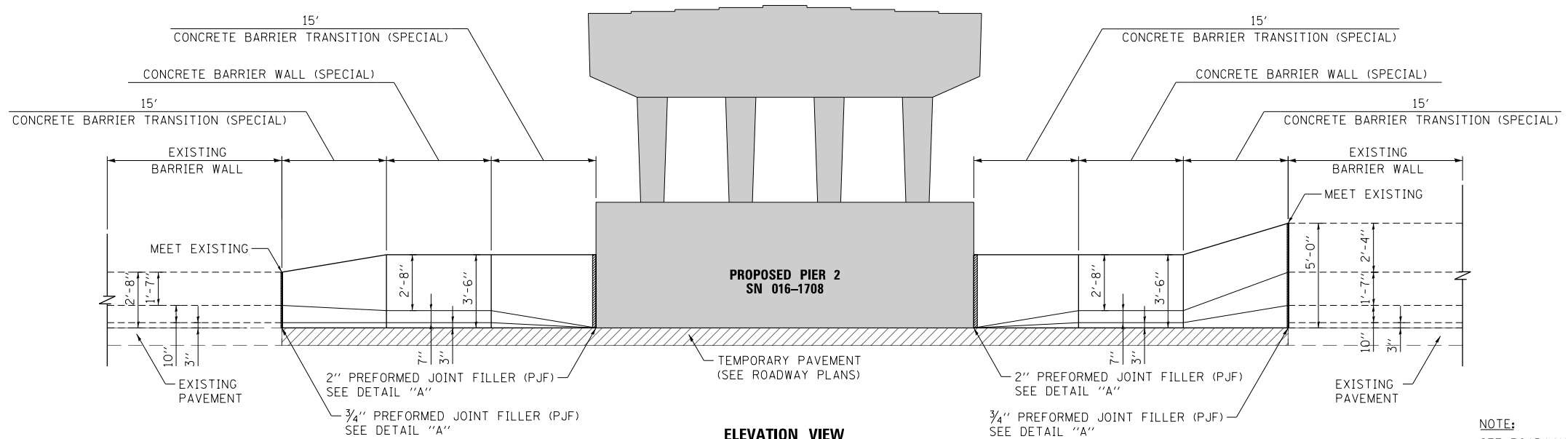
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	335
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				



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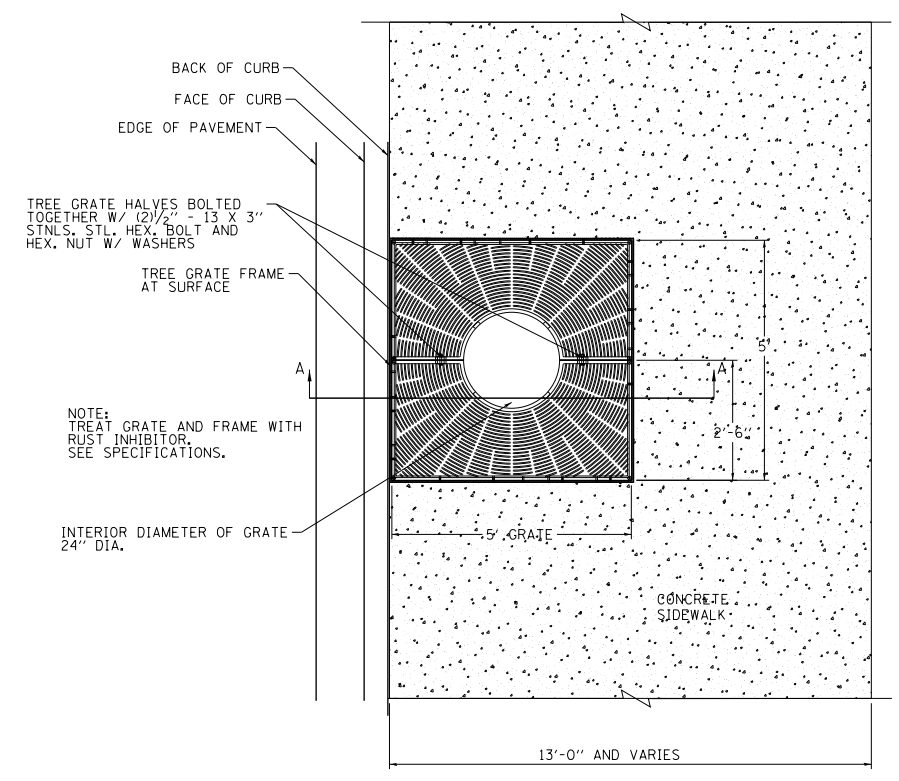
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY DETAILS</b>			
SCALE: NONE	SHEET 5	OF 5 SHEETS	STA. TO STA.

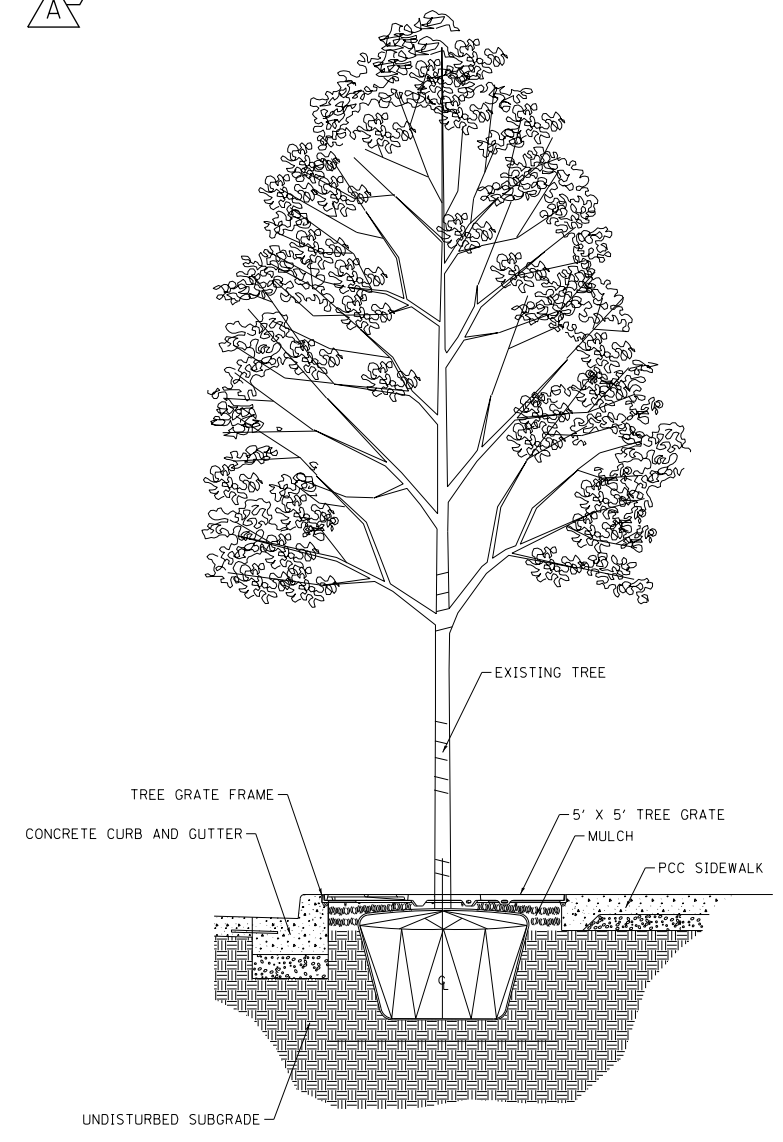
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90/94/290	2013-011R	COOK	356	336
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	



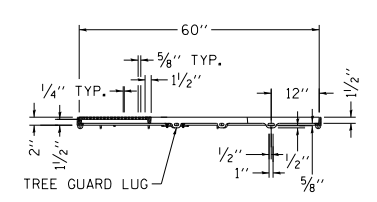
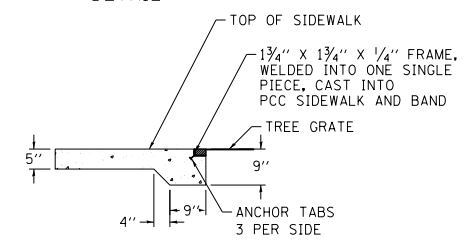
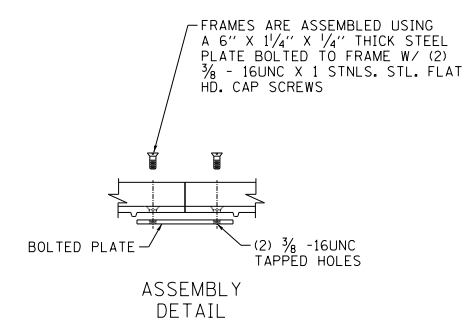
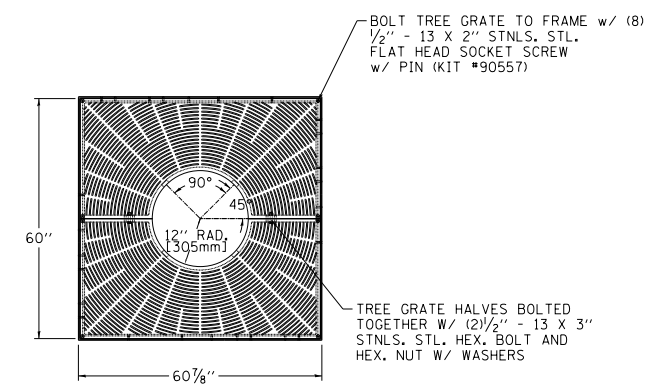
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PLAN VIEW - TREE GRATE



SECTION A-A'



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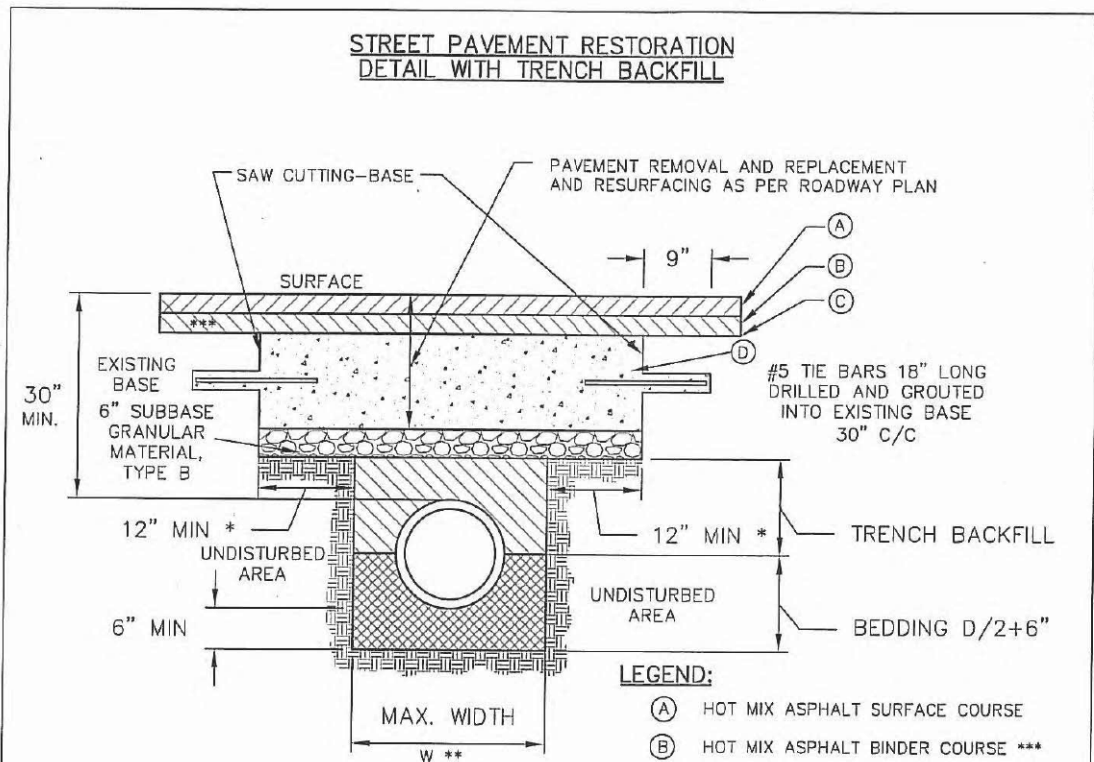
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS  
TREE GRATES

SCALE: NONE SHEET 5A OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	336A
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)

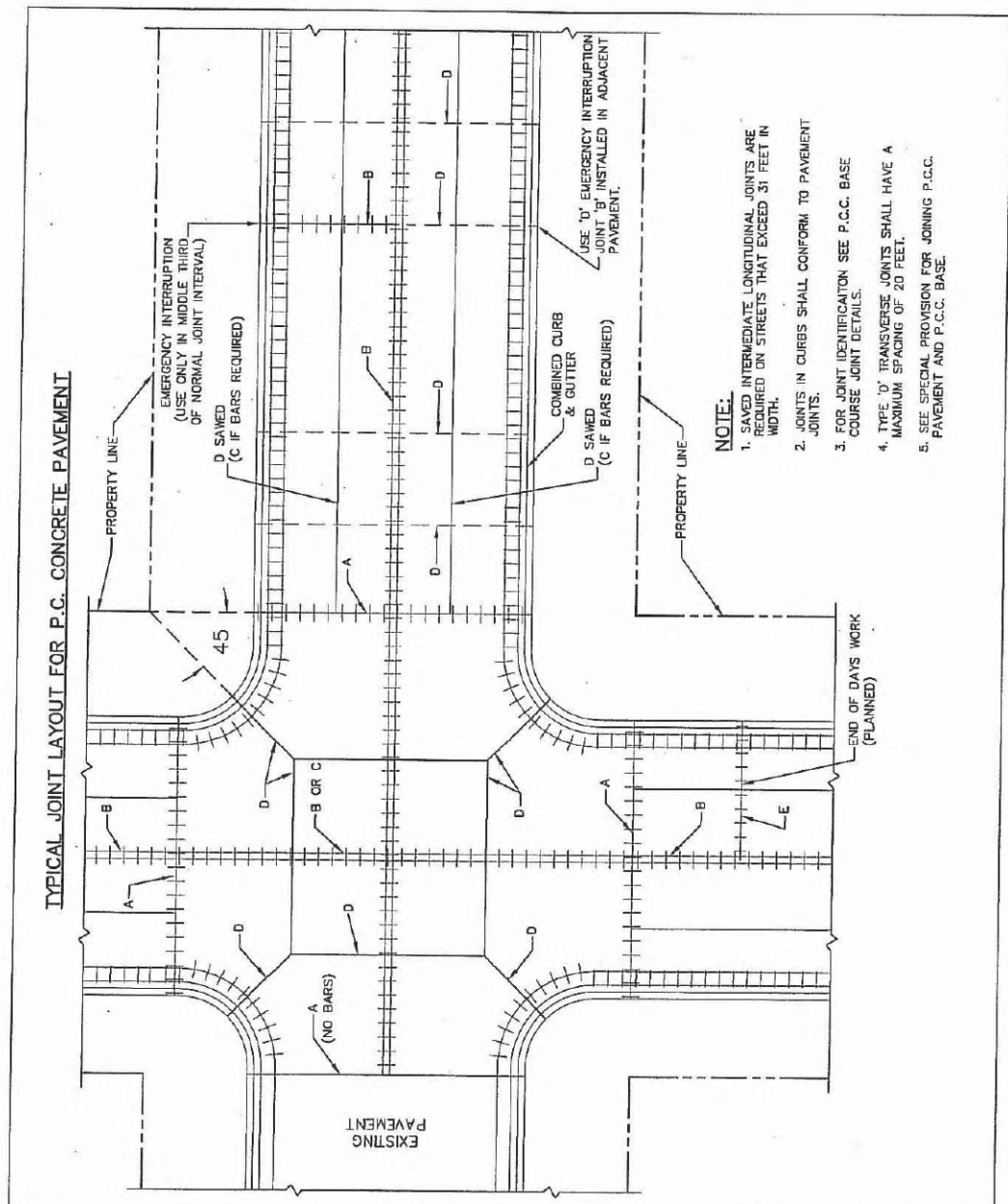
\*\*  $W = 9" + O.D. + 9"$ , WHEN TRENCH DEPTH  $\leq 5$  FT.  
 $W = 18" + O.D. + 18"$ , WHEN TRENCH DEPTH  $> 5$  FT.

\*\*\* 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.

<b>CDOT</b> 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. SAVED 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.

<b>CDOT</b> 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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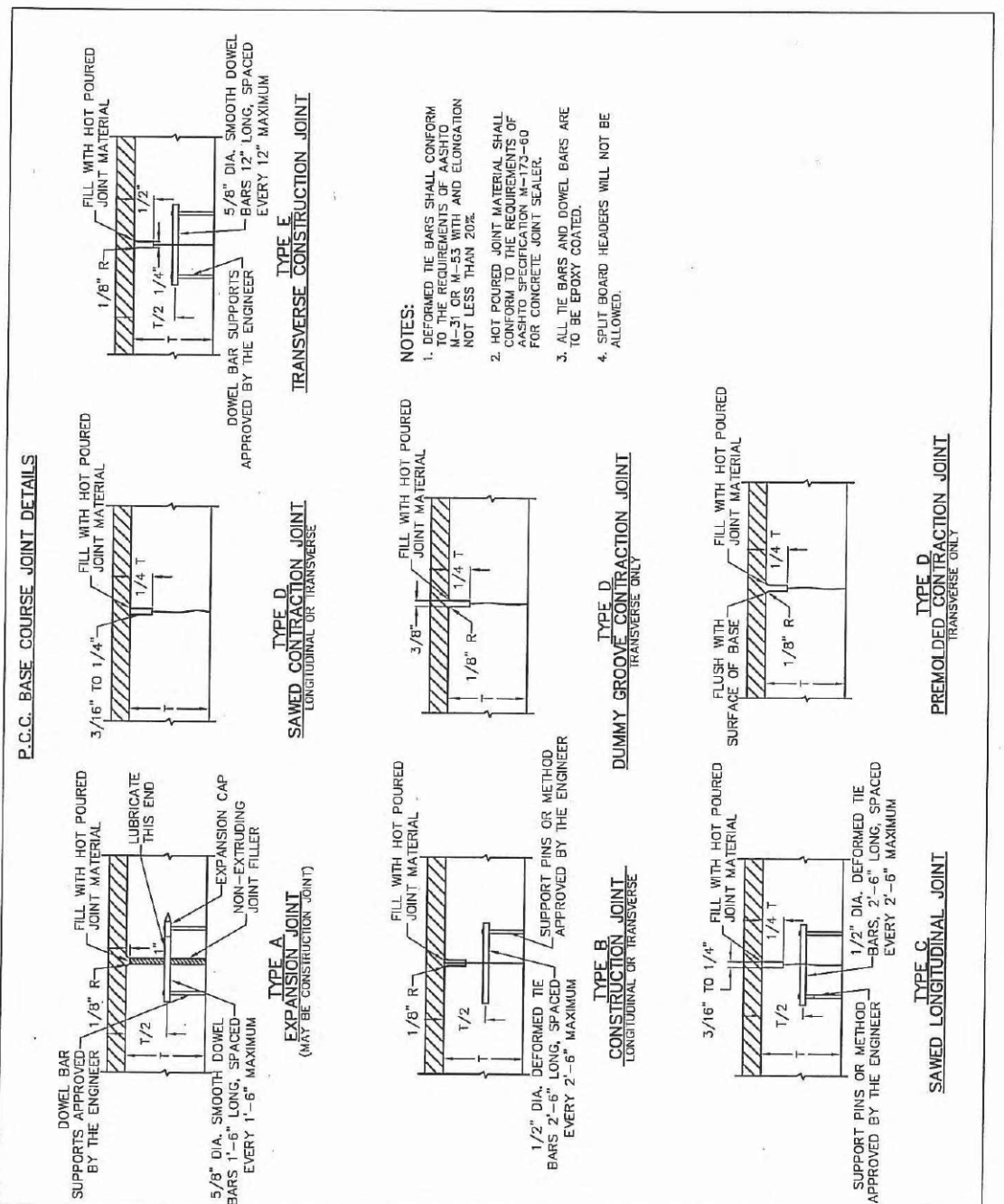
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**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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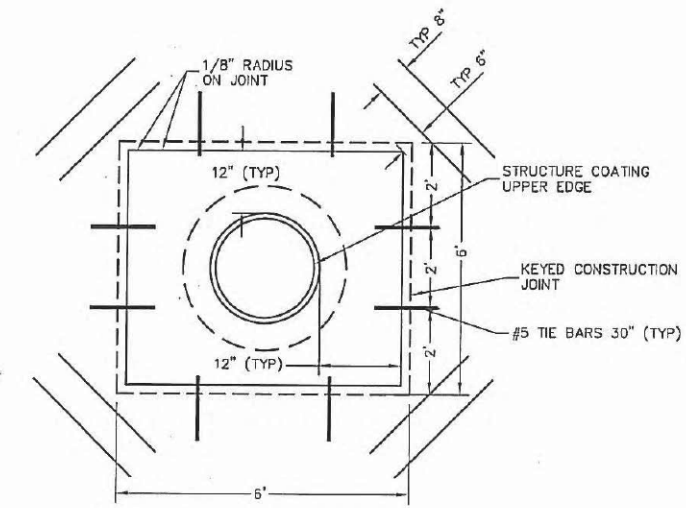


- NOTES:**
1. DEFORMED TIE BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 WITH AN ELONGATION NOT LESS THAN 20%.
  2. HOT POURED JOINT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-173-80 FOR CONCRETE JOINT SEALER.
  3. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY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

 CHICAGO DEPARTMENT OF TRANSPORTATION	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.



DETAIL OF BOX IN PAVEMENT

**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 (O) SIDE (S) OF THE BOX. THIS ADJUSTMENT WILL BE ALLOWED ONLY WHEN THE DISTANCE BETWEEN THE SIDE OF THE STANDARD ISOLATION BOX AND IMMOVABLE JOINT IS 18" OR LESS.

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

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

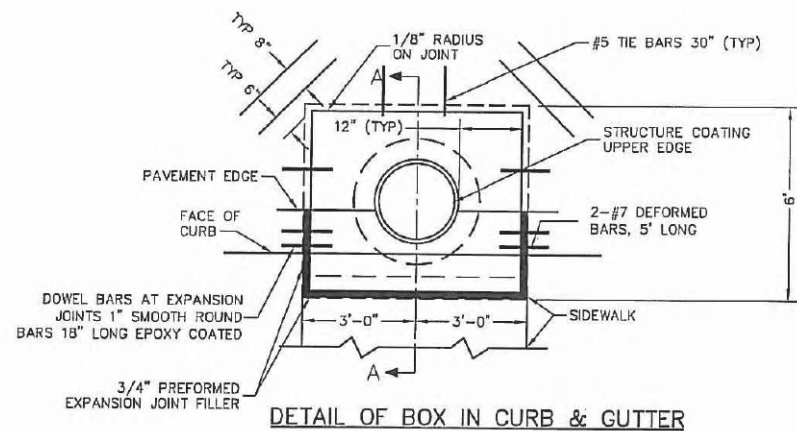
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION  
STANDARD CONSTRUCTION DETAILS A-2-3C & A-2-12A  
SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

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				

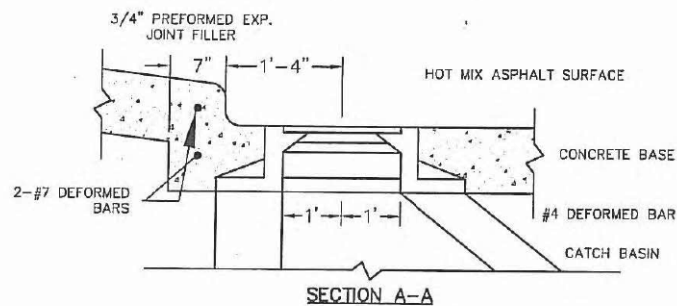
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**DETAIL OF STRUCTURE CASTING ISOLATION BOX FOR P.C.C. PAVEMENT AND BASE COURSE**



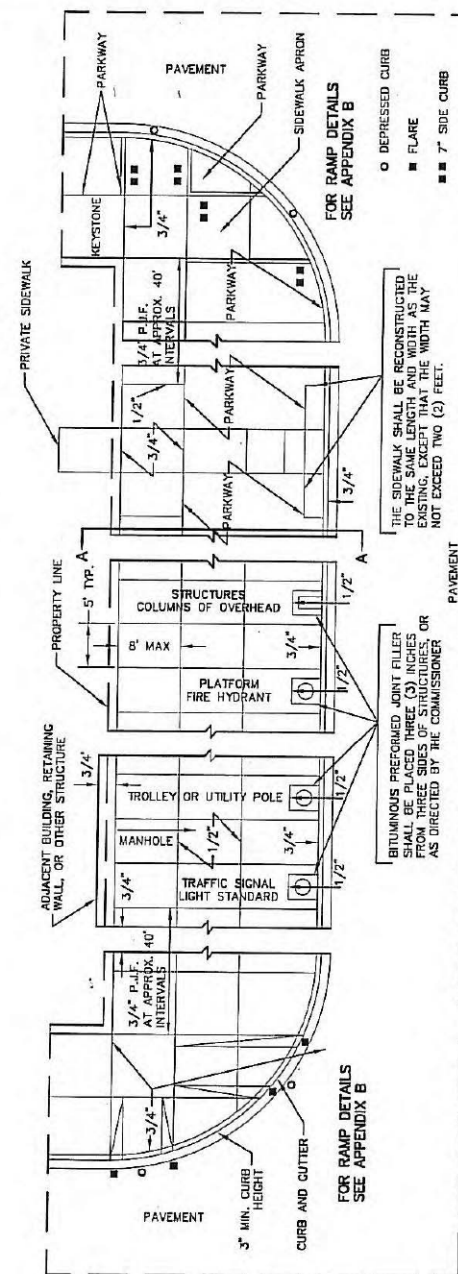
**NOTES:**

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.

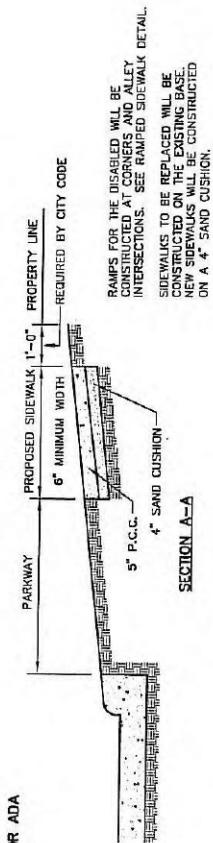


DATE	REVISION	CITY OF CHICAGO		
-	-	DETAILS OF STRUCTURE CASTING ISOLATION BOX FOR P.C.C. PAVEMENT AND BASE COURSE		
DATE	SHEET	DRAWN BY		
12/22/06	A-2-12B	CDOT		

**DETAILS OF PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION**



SEE APPENDIX B FOR ADA REQUIREMENTS FOR SIDEWALKS.



\* THE 1/2" AND 3/4" DIMENSIONS REFER TO THE THICKNESS OF THE BITUMINOUS PREFORMED JOINT FILLER REQUIRED AT THE VARIOUS LOCATIONS.



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



D160W29-Sht-CDOT-DETAIL-03.dgn	DESIGNED -	CDOT	REVISED -	
USER NAME = BAW1tor.t	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**

<b>CHICAGO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DETAILS A-2-12B &amp; A-3-2</b>			
SCALE: NONE	SHEET 3 OF 4 SHEETS	STA. TO STA.	

F.A.I. R.T.E. 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

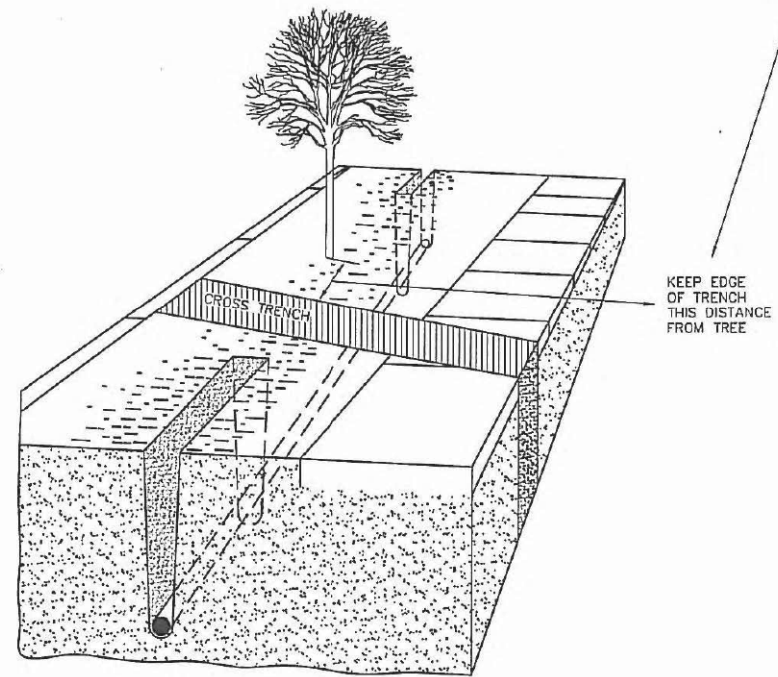


DIAGRAM ILLUSTRATING THE USE OF SOIL AUGERS IN THE PRESENCE OF TREES.

	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 CURB OR SIDEWALK, THE ENCRUSCHMENT 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 PLACED 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 APPROX 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.



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

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D160W29-Sht-CDOT-DETAIL-04.dgn	DESIGNED - CDOT	REVISED -
USER NAME = BAW1tor-t	DRAWN - CDOT	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - CDOT	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

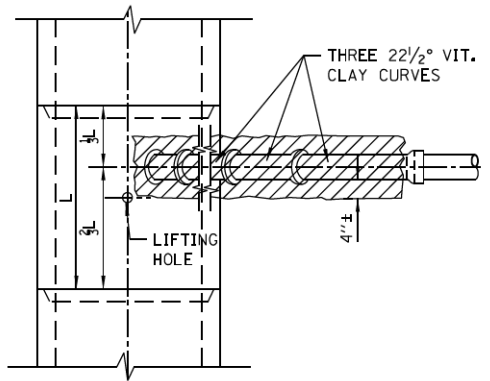
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

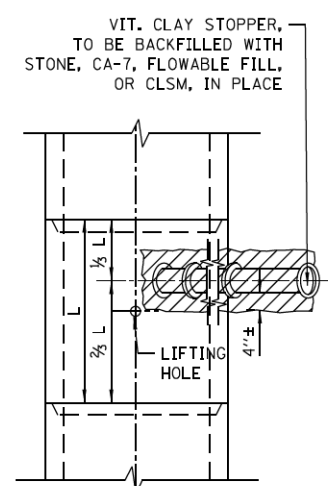
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F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	340
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

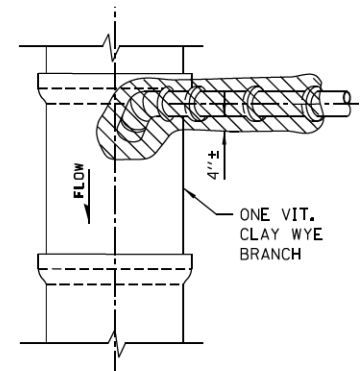




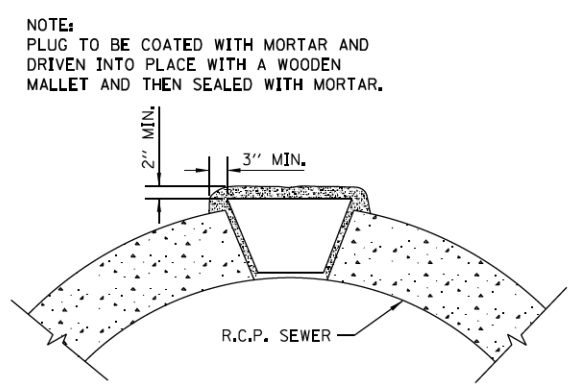
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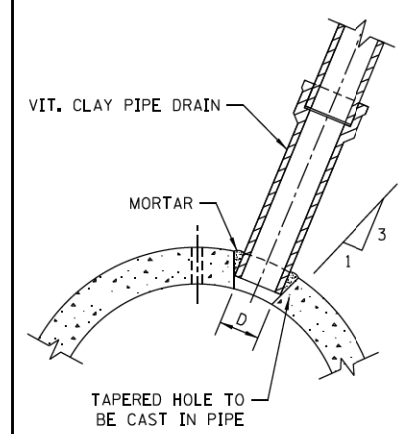
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PLAN

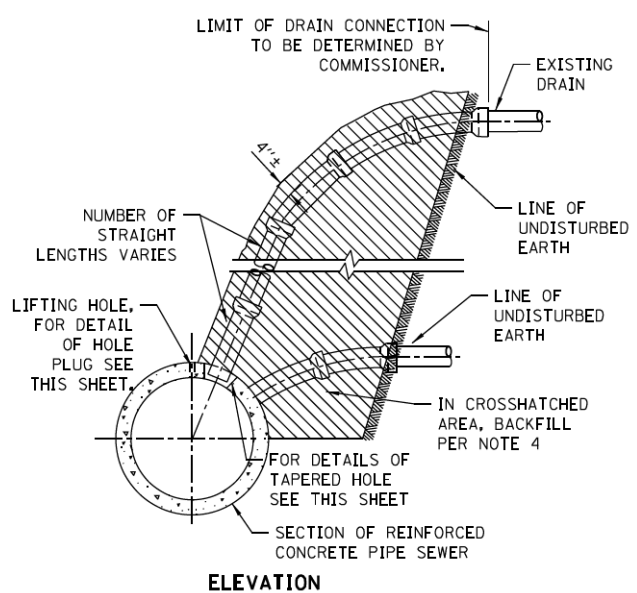


LIFTING HOLE PLUG DETAIL FOR CONCRETE PIPE

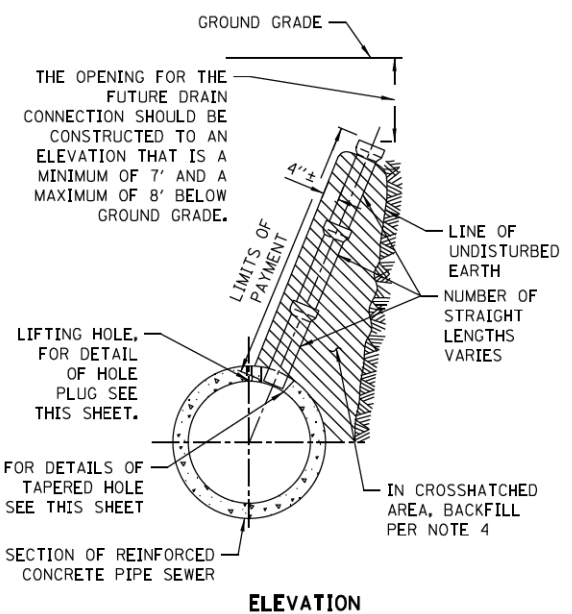


DETAIL OF TAPERED HOLE

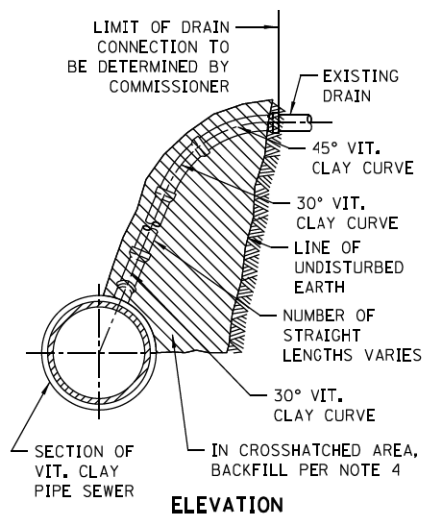
SIZE OF DRAIN	"D"
6"	6 7/8"
8"	9 1/8"
10"	11 1/8"
12"	13 1/2"
15"	17"
18"	20 1/4"
21"	23 3/8"
24"	27 1/4"



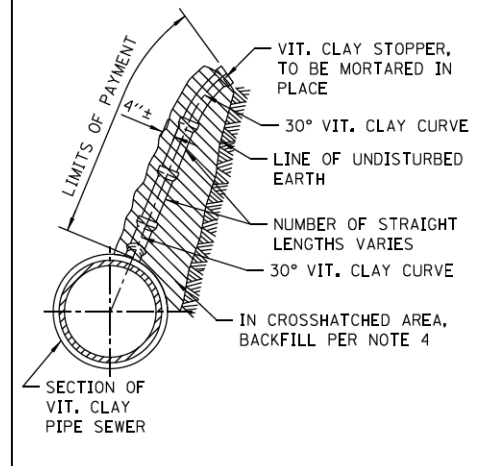
TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



TYPICAL DRAIN STACKS FOR FUTURE USE

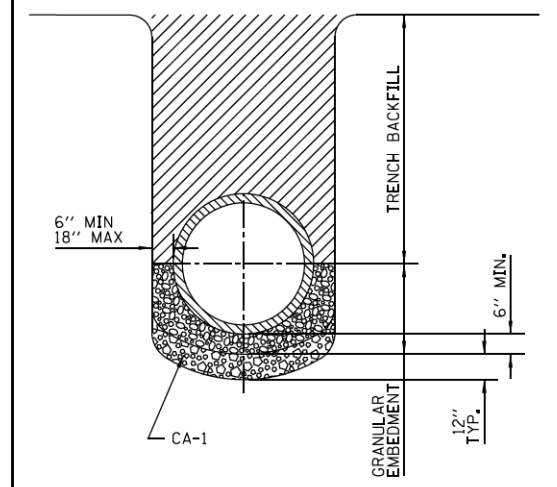


TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



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	
VITRIFIED CLAY PIPE DRAIN CONNECTIONS	
DRAWN	SIZE
CHECKED	NO.
REVIEWED	NO.
PN	

A.1
OF
PN

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USER NAME = BAW1tor1	DRAWN - CDWM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - CDWM	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/30/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

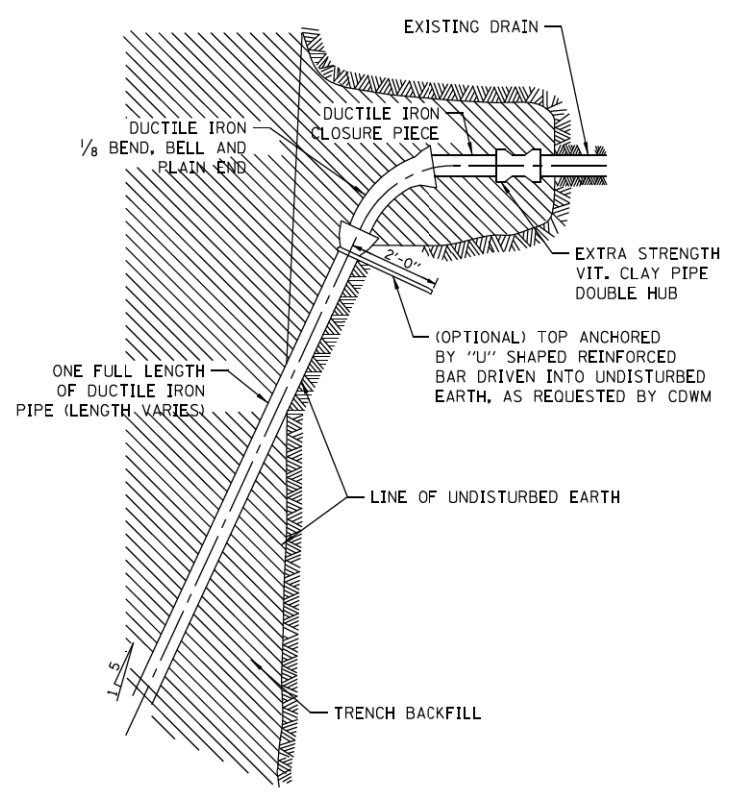
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT  
STANDARD DETAILS A.1

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

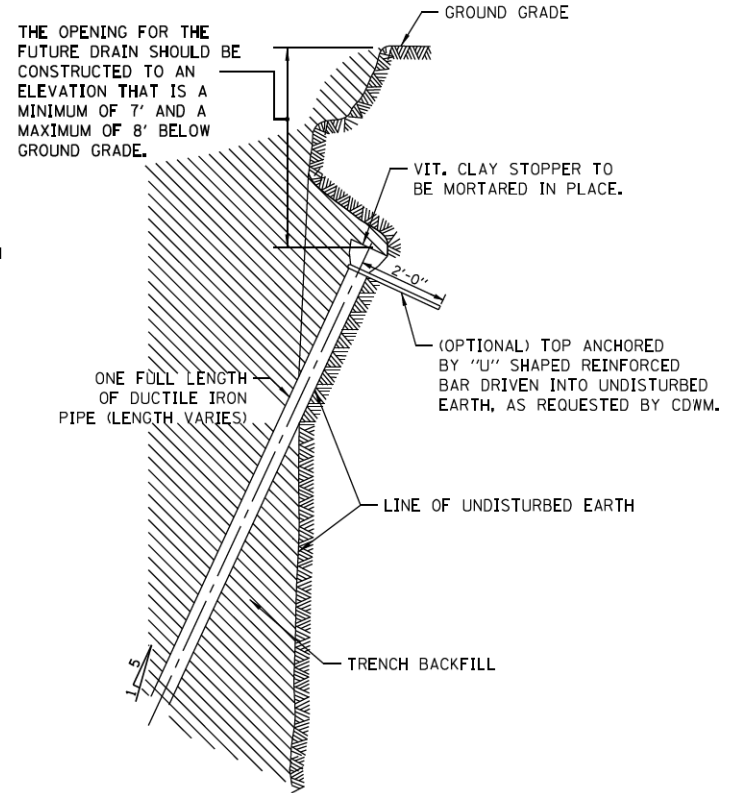


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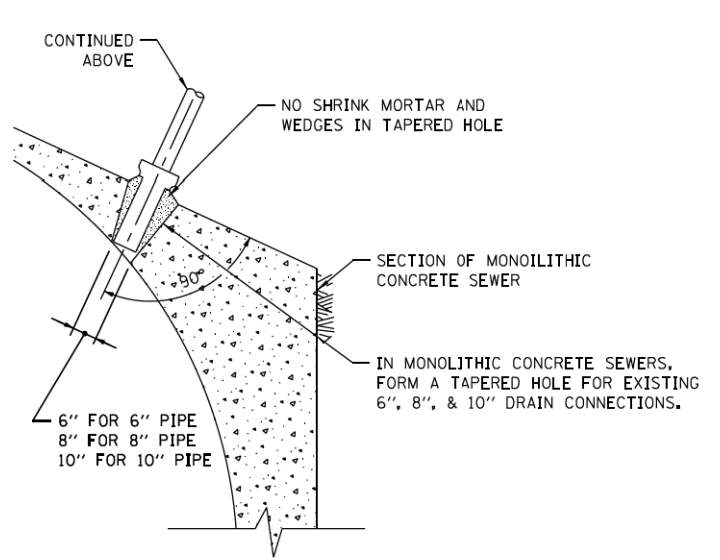
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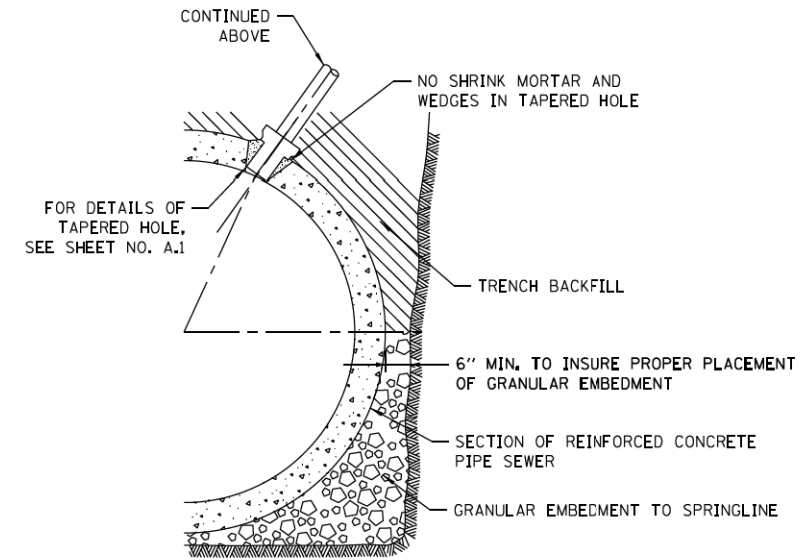
TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



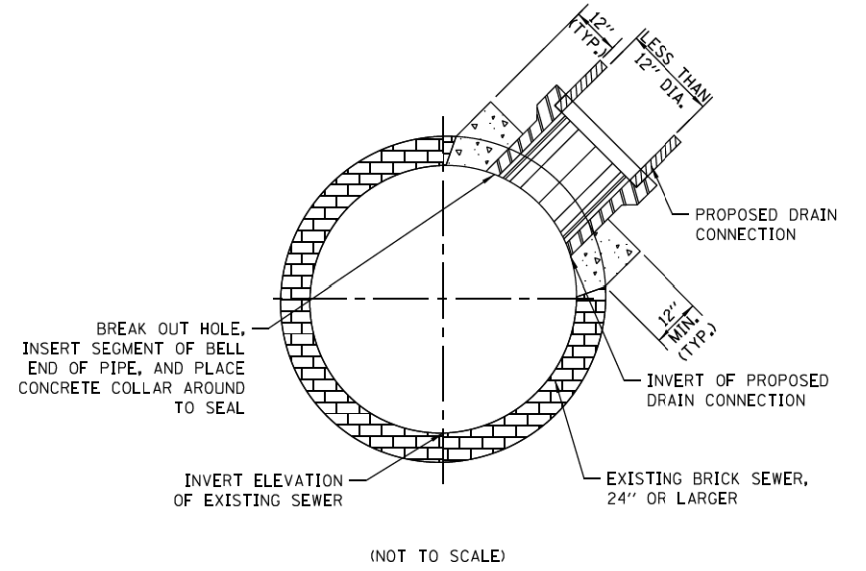
TYPICAL DRAIN STACKS FOR FUTURE USE



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

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PLOT SCALE = 2.0000' / in.	CHECKED - CDWM	REVISED -
PLOT DATE = 12/19/2013	DATE - 10/30/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	

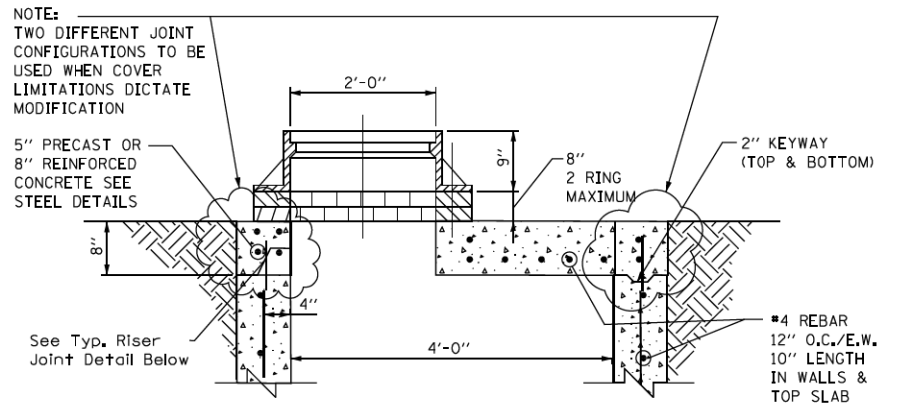
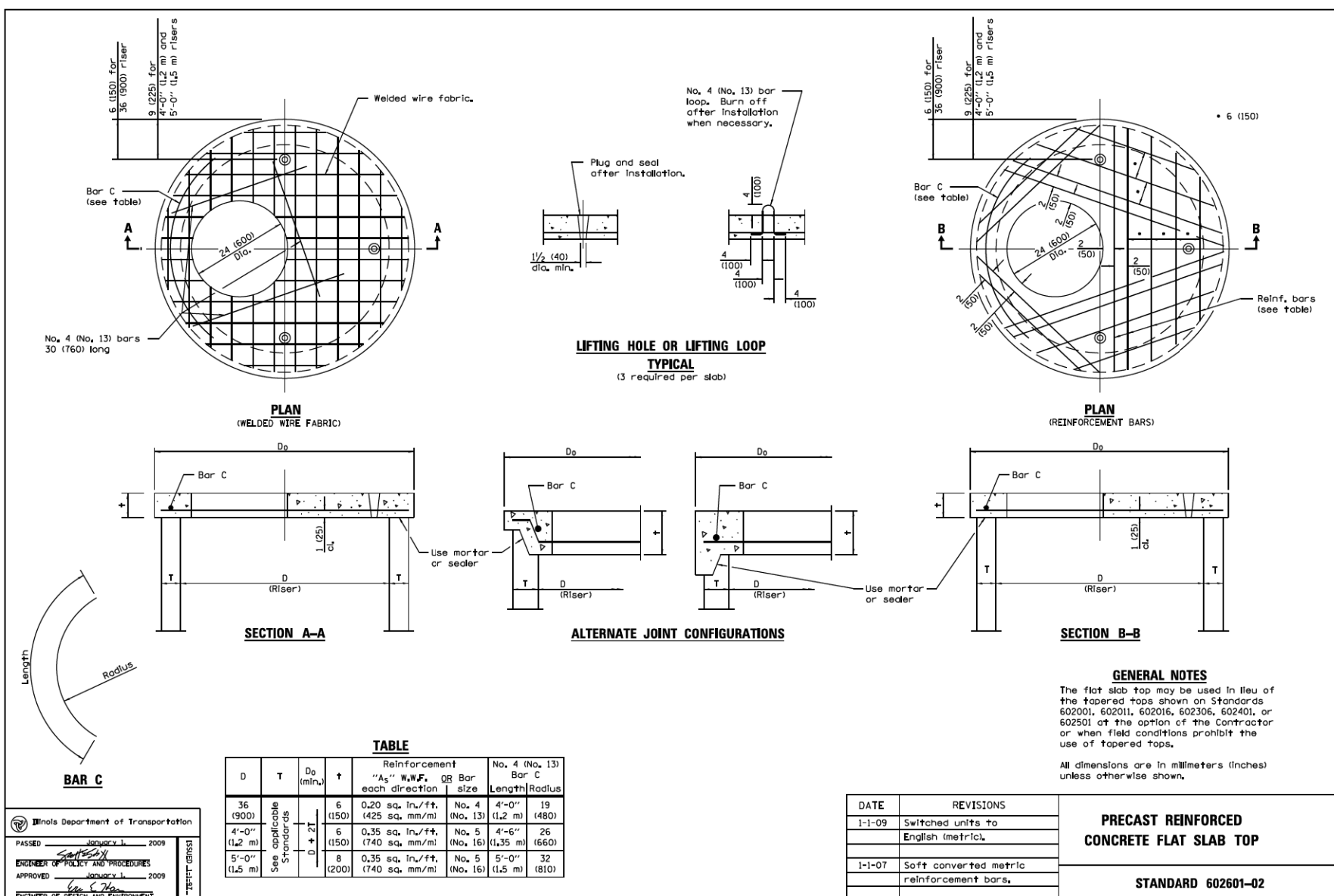
CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES			
DUCTILE IRON PIPE DRAIN CONNECTIONS			
F.A.I. RTE. 90/94/290	SECTION 2013-011R	COUNTY COOK	TOTAL SHEETS 356 SHEET NO. 342
CONTRACT NO. 60W29			

DRAWN	SOB	A.2
DESIGNED		
CHECKED		
REVIEWED		

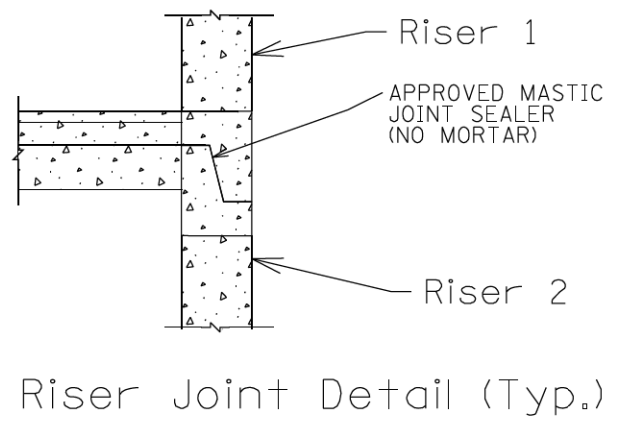




# SPECIAL DRAINAGE STRUCTURES FOR PUBLIC STREETS AND ALLEYS



**STANDARD FLAT TOP SLAB FOR CATCH BASINS**



**NOTE:**  
 FLAT TOP SLAB CAN ONLY BE USED WITH WRITTEN PERMISSION FROM CDWM.

Illinois Department of Transportation  
 PASSED January 1, 2009  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2009  
 ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-09	Switched units to English metric.
1-1-07	Soft converted metric reinforcement bars.

**PRECAST REINFORCED CONCRETE FLAT SLAB TOP**  
**STANDARD 602601-02**

STANDARD REVISIONS	
DATE	DESCRIPTION
12/21/11	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DRAWN (DESIGNED) CHECKED	DATE
FLAT TOP SLAB DETAILS		PN	A.8

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PLOT SCALE = 2.0000' / in.	CHECKED - CDWM	REVISED -
PLOT DATE = 12/19/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

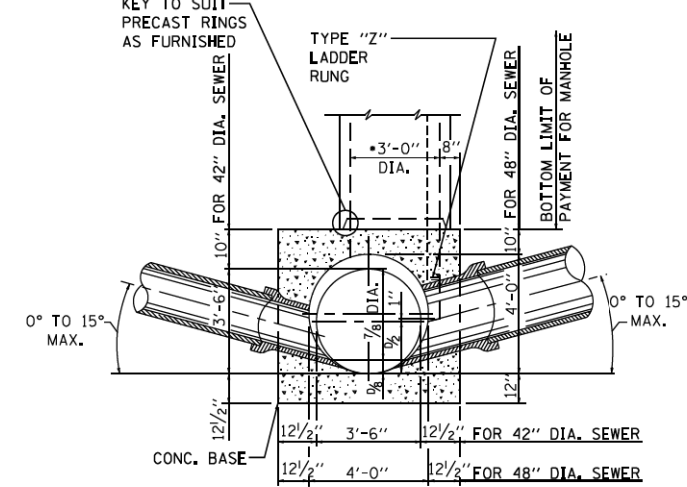
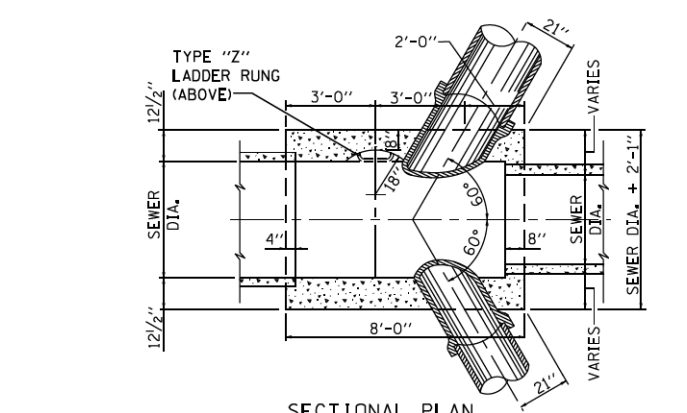
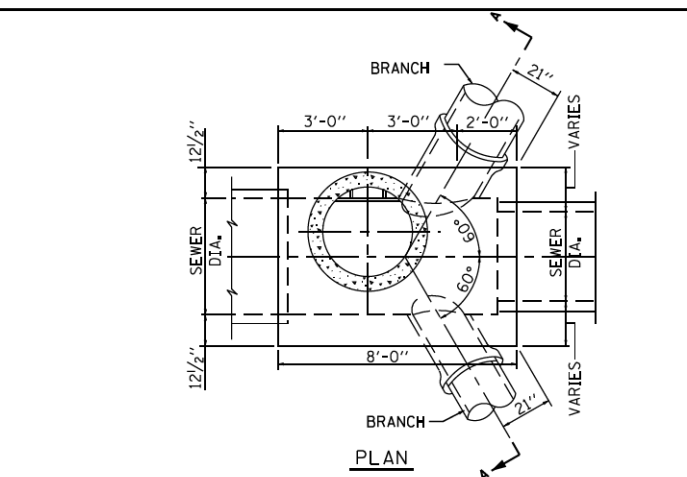
**CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT STANDARD DETAILS A.8**

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90/94/290	2013-011R	COOK	356	344

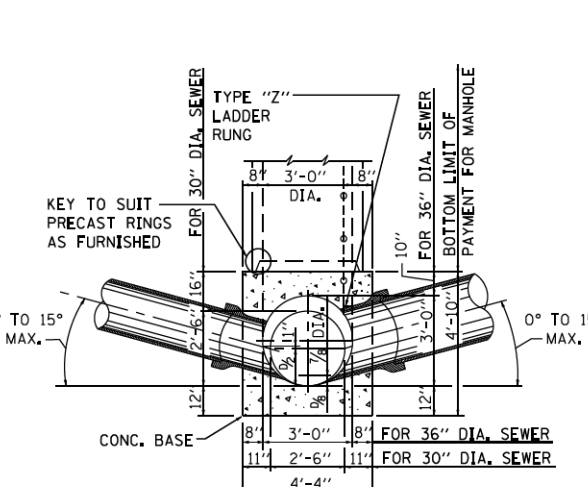
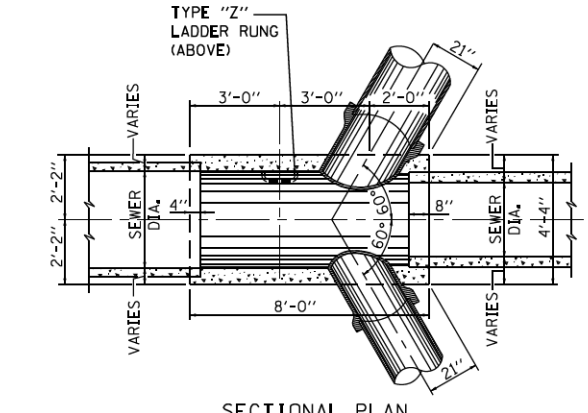
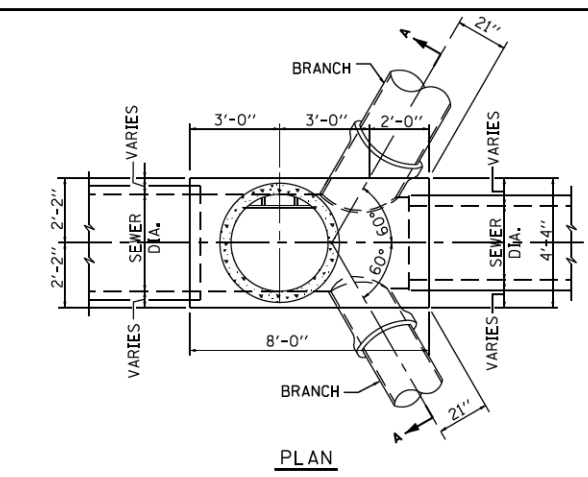
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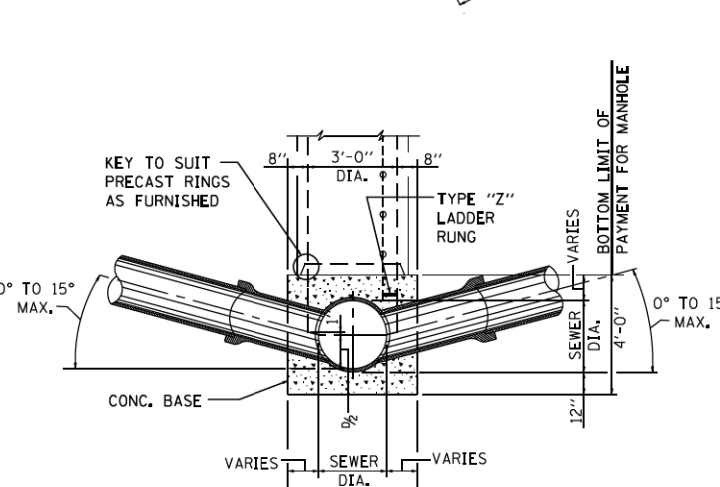
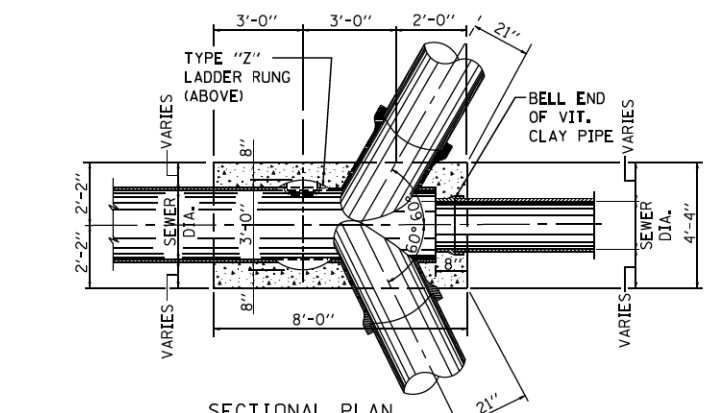
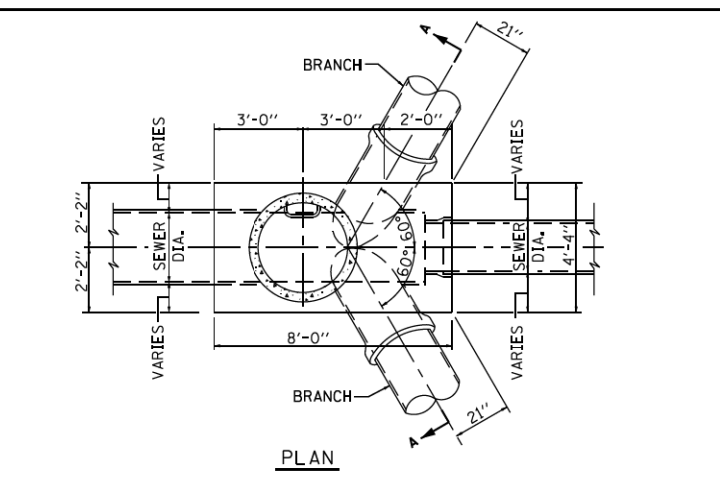
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 12/18/2013



**SECTION A-A**  
**TYPE "B" MANHOLE**  
**FOR SEWERS 48" DIA. & 42" DIA.**

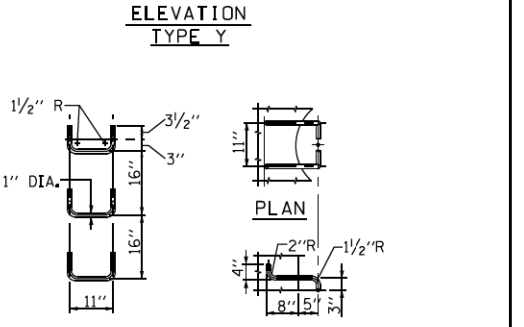
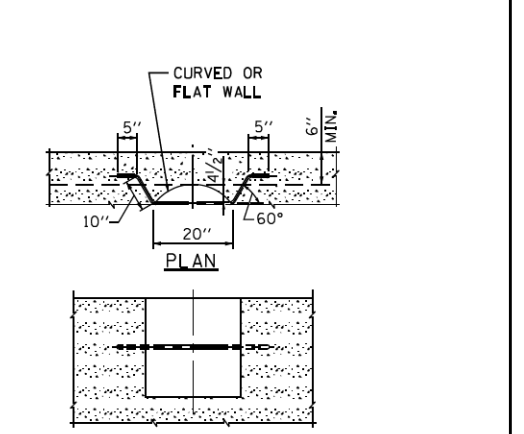
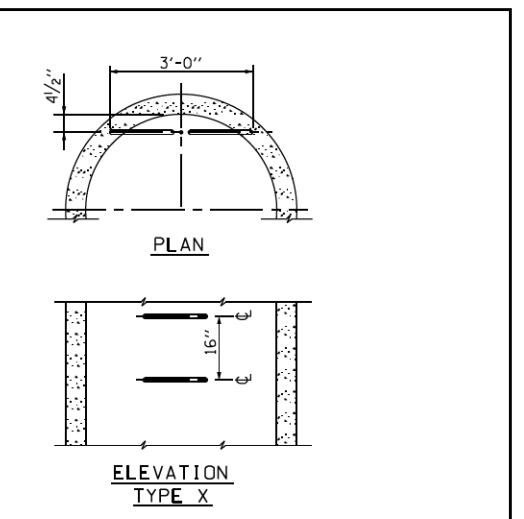


**SECTION A-A**  
**TYPE "B" MANHOLE**  
**FOR SEWERS 36" DIA. & 30" DIA.**



**SECTION A-A**  
**TYPE "B" MANHOLE**  
**FOR SEWERS 24" DIA. & SMALLER**

**NOTES FOR TYPE "B" MANHOLES:**  
 STUBS IN MANHOLE BASES TO BE PAID FOR AS PART OF THE ITEMS ..... OR ITEMS .....  
 FOR REINFORCEMENT STEEL DETAILS OF MANHOLE BASE SEE SHEET NO. ....



**STANDARD LADDER RUNGS**  
 ALL LADDER RUNGS MUST BE ALUMINUM AS SPECIFIED IN THE SPECIFICATIONS, RUNGS MUST BE 1" DIAMETER OR OF A SHAPE HAVING AN EQUIVALENT CROSS-SECTIONAL AREA.

STANDARD REVISIONS	
DATE	DESCRIPTION
12/01/09	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DRAWN	DATE	SHEET NO.
TYPE "B" MANHOLE				A.9

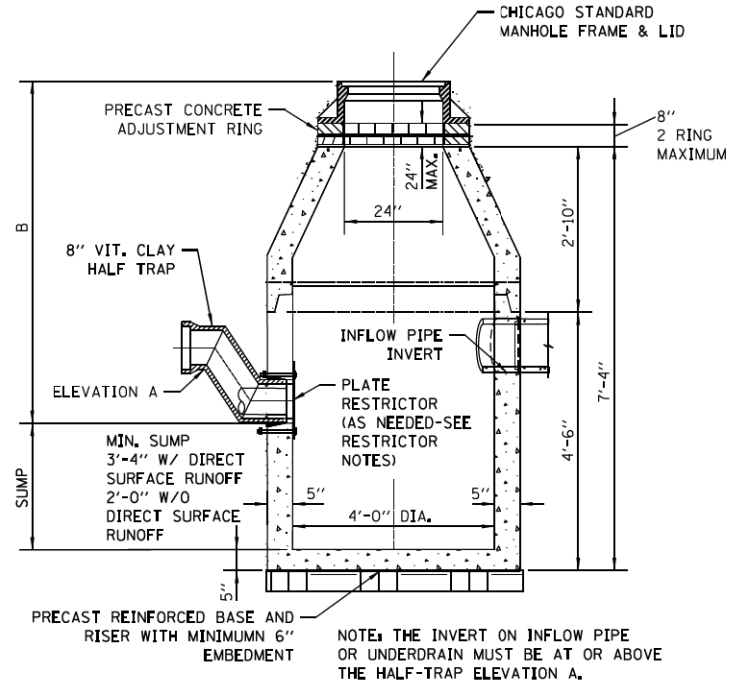
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PLOT SCALE = 2.0000' / in.	CHECKED - CDWM	REVISED -
PLOT DATE = 12/19/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

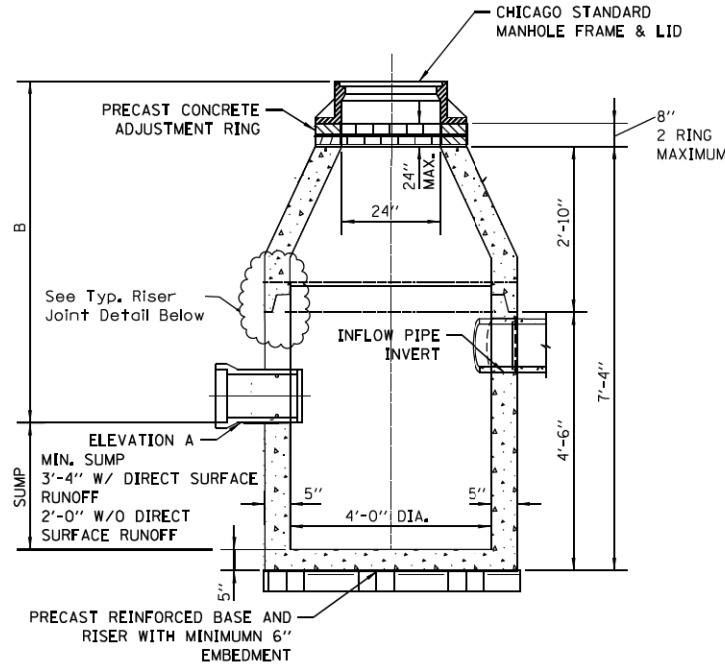
**CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT  
STANDARD DETAILS A.9**  
 SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	345
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

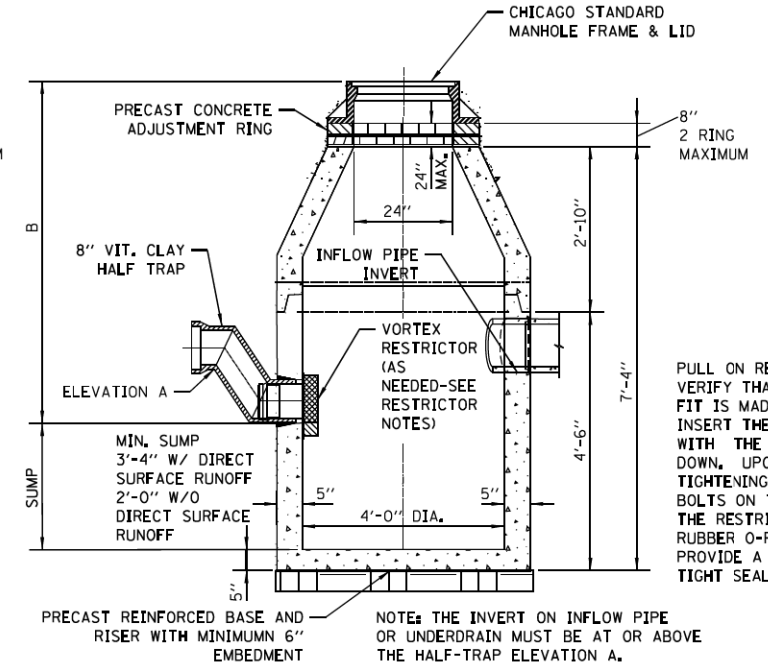
# STANDARD DRAINAGE STRUCTURES FOR PRIVATE DEVELOPMENT



**PLATE RESTRICTOR CATCH BASIN  
CONICAL SECTION  
N.T.S.**

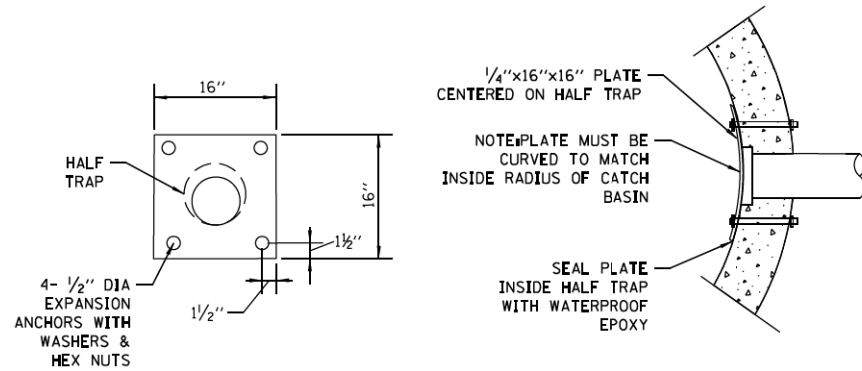


**STANDARD CATCH BASIN  
CONICAL SECTION  
N.T.S.**



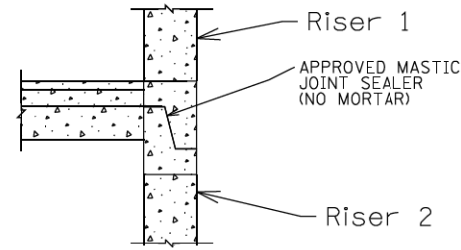
**VORTEX RESTRICTOR CATCH BASIN  
CONICAL SECTION  
N.T.S.**

PULL ON RESTRICTOR TO VERIFY THAT A TIGHT FIT IS MADE. INSERT THE RESTRICTOR WITH THE OPENING DOWN, UPON TIGHTENING OF THE 2 BOLTS ON THE FACE OF THE RESTRICTOR, THE RUBBER O-RINGS WILL PROVIDE A WATER-TIGHT SEAL.



**NOTES:**

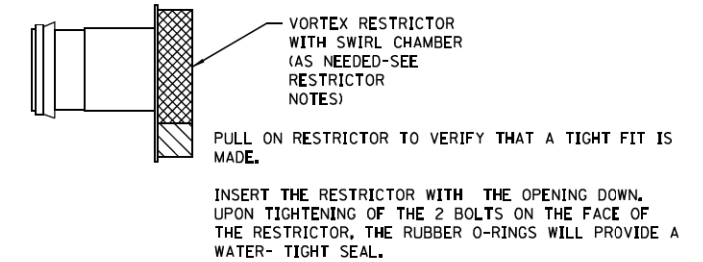
1. THE RESTRICTOR MUST BE INSTALLED IN CATCH BASINS OR MANHOLES WITH 2' MIN. SUMPS.
2. PLATE AND FASTENERS MUST BE FABRICATED IN STAINLESS STEEL, DUCTILE IRON, OR EQUIVALENT WATERPROOF/WEATHER PROOF MATERIALS.
3. MIN. ORIFICE SIZE= 2.5" DIA.
4. IF B < 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.



**Riser Joint Detail (Typ.)**

**GENERAL NOTES:**

1. CATCH BASIN TO CATCH BASIN CONNECTIONS ARE ALLOWED IN PRIVATE SITES & ALLEYS. ONLY THE DOWNSTREAM CATCH BASIN IS REQUIRED TO HAVE A HALF-TRAP.
2. IF B < 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.
3. INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF THE DEPT OF WATER MANAGEMENT- ENGINEERING SERVICES, SEWER SECTION, AND THE DEPT. OF BUILDINGS STORMWATER REVIEWER.



**NOTES:**

1. IF B < 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.
2. THE RESTRICTORS CAN BE OBTAINED FROM DWM CENTRAL DISTRICT AT 3901 S. ASHLAND AVE. THE CONTRACTOR SHOULD ARRANGE FOR PICK UP BY CONTACTING 312-747-1177 (7AM TO 3PM, M-F)

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES	DRAWN DESIGNED CHECKED	SUB CHECKED
DATE	DESCRIPTION					
12/09/10	APPROVED PLAN	30		DRAINAGE STRUCTURE DETAILS PRIVATE DEVELOPMENT	PN	A.13
		60				
		75				
		90				
		100				
		BULLETIN				

G:\BCH\12\0137\CDOT\Standards\2013-08-07 CDWM Standards from AECOM Anna\CDWM\_Details.cel  
 12/18/2013  
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D160W29-Sht-CDWM-05A.dgn	DESIGNED - CDWM	REVISED - 12/18/2013
USER NAME = BAW1tor1	DRAWN - CDWM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - CDWM	REVISED -
PLOT DATE = 12/19/2013	DATE - 10/30/2013	REVISED -

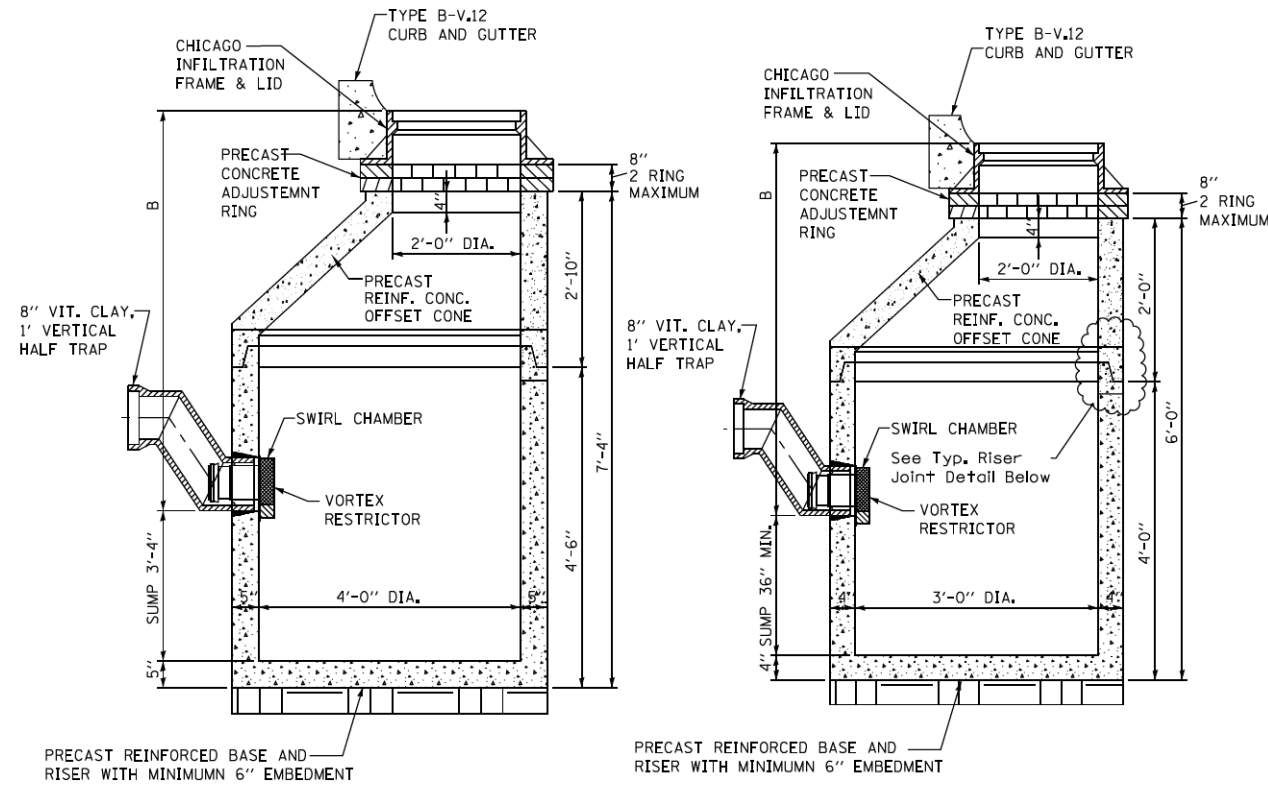
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT  
STANDARD DETAILS A.13**

SCALE: NONE SHEET 5A OF 6 SHEETS STA. TO STA.

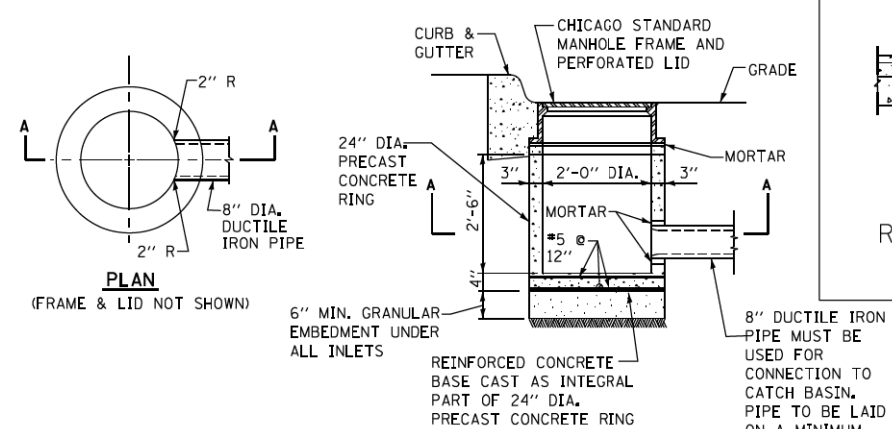
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	345A
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	

## STANDARD DRAINAGE STRUCTURES FOR PUBLIC STREETS

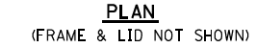


**STANDARD CATCH BASIN-4' DIA.**

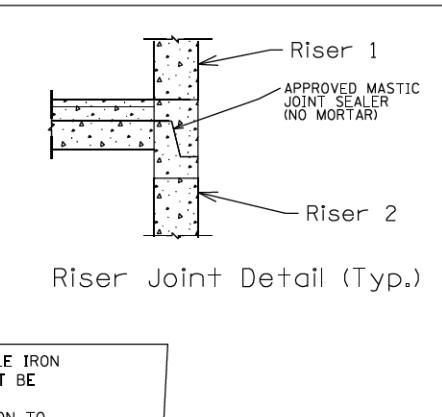
**STANDARD CATCH BASIN-3' DIA.**



**STANDARD INLET-2' DIA.**



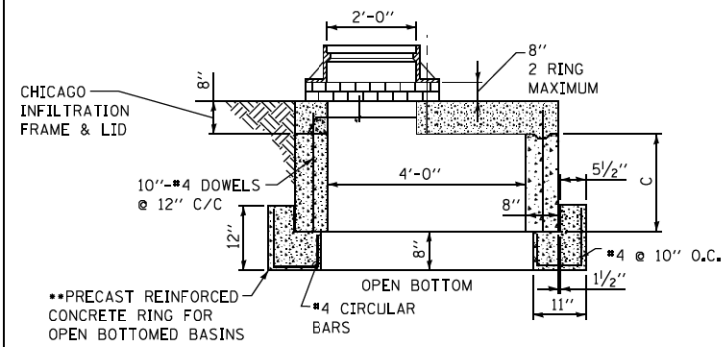
**NOTE:**  
INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF DWM SEWER ENGINEER OR FIELD INSPECTOR.



Riser Joint Detail (Typ.)

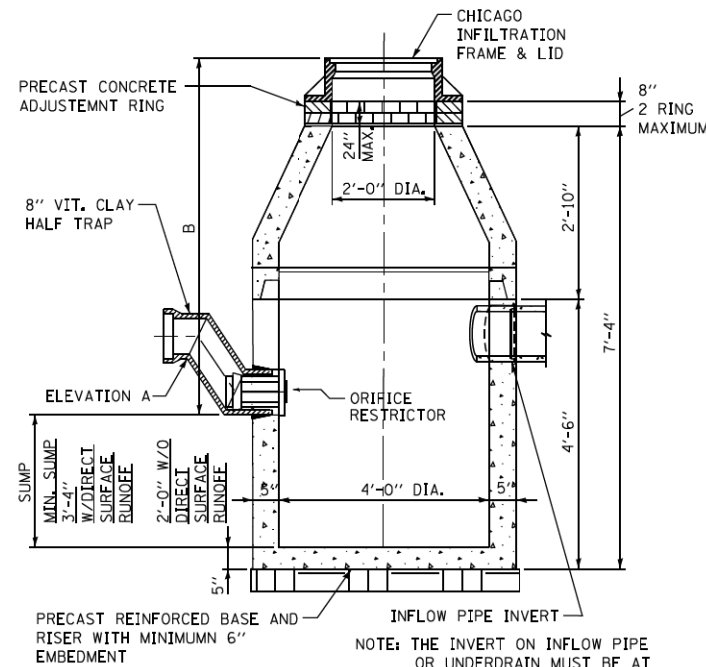
- NOTES:**
- FOR ANY DRAIN TILE CONNECTION, THE WATER TABLE MUST BE AT LEAST 3.5 FEET BELOW ELEVATION A.
  - PVC UNDERDRAINS MUST BE 4" MINIMUM DIAMETER, (6" RECOMMENDED) AND MUST BE WRAPPED IN GEOTECH FABRIC.

## STANDARD DRAINAGE STRUCTURES FOR PUBLIC ALLEYS



**GREEN ALLEY OPEN BOTTOM CATCH BASIN**

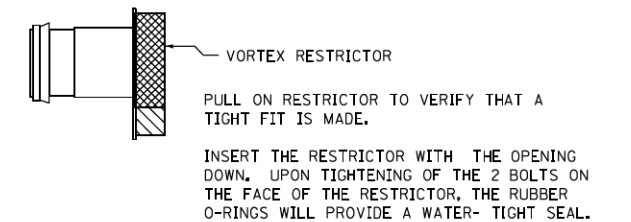
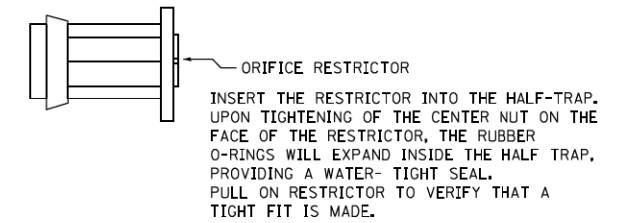
- TO BE USED IF STANDARD CONE WITH REQUIRED SUMP DEPTH INSTALLATION IS IMPOSSIBLE.
- IF FLAT TOP SLAB CATCH BASIN IS USED IN AN OPEN BOTTOM APPLICATION, THE FOLLOWING CRITERIA MUST BE FOLLOWED:
    - "C" MUST BE A MINIMUM OF 3 FEET.
    - PROVIDE A MINIMUM AGGREGATE BASE OF 1.0 FEET BELOW PRECAST REINFORCED CONCRETE RING.
    - GEOTECH FABRIC MUST BE PLACED ON SIDES AND BOTTOM OF AGGREGATE SURROUNDING BASIN.
    - AGGREGATE BASE MUST PROVIDE ADEQUATE STORMWATER STORAGE CAPACITY PER THE APPROVED/PERMITTED PLANS.



**CATCH BASIN-ORIFICE RESTRICTOR**

N.T.S.

## DRAINAGE STRUCTURES RESTRICTORS



- GENERAL NOTES:**
- CATCH BASIN TO CATCH BASIN CONNECTIONS ARE ALLOWED IN PRIVATE SITES & ALLEYS. ONLY THE DOWNSTREAM CATCH BASIN IS REQUIRED TO HAVE A HALF-TRAP.
  - IF B < 4 FEET, THEN USE A DUCTILE IRON PIPE HALF TRAP AND FLAT TOP SLAB CATCH BASIN AS NECESSARY.
  - INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF DWM FIELD INSPECTOR.

- RESTRICTOR NOTES:**
- THE DWM'S RAIN BLOCKER RESTRICTOR PROGRAM MUST BE MAINTAINED WITH ANY ROADWAY IMPROVEMENT.
- THE DESIGN OF ANY ROADWAY IMPROVEMENT MUST CONSIDER LIMITING THE NUMBER OF CATCH BASINS TO THE EXTENT PRACTICAL. THE NUMBER OF EXISTING STRUCTURES SHOULD NOT BE INCREASED.
- THE RESTRICTORS CAN BE OBTAINED FROM DWM CENTRAL DISTRICT AT 3901 S. ASHLAND AVE. THE CONTRACTOR SHOULD ARRANGE FOR PICK UP BY CONTACTING 312-747-1177 (7AM TO 3PM, M-F)

FLOW RESTRICTORS MUST BE INSTALLED IN ALL CATCH BASINS OUTSIDE OF THE CENTRAL BUSINESS DISTRICT. RESTRICTORS MUST NOT BE INSTALLED IN CATCH BASINS IN CLOSE PROXIMITY TO VIADUCT AREAS, BUS STOPS, OR EMERGENCY ENTRANCES. THE DWM MUST APPROVE THE NON-INSTALLATION OR REMOVAL OF ANY RESTRICTOR. REQUIREMENTS FOR RESTRICTOR INSTALLATION ARE AS FOLLOWS:

- ARTERIAL STREETS: 3-INCH ORIFICE RESTRICTOR
- BUS ROUTES: 3-INCH ORIFICE RESTRICTOR
- RESIDENTIAL STREETS: 3-INCH VORTEX RESTRICTOR
- ALLEYS: 3-INCH ORIFICE RESTRICTOR IN THE LAST CB.
- CLOSED LIDS ARE REQUIRED ON ALL MANHOLES EXCEPT AT INTERSECTIONS WHERE A PERFORATED LID SHALL BE USED.

STANDARD REVISIONS	
DATE	DESCRIPTION
11/21/11	REVISED

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO				DRAWN	DATE
DEPARTMENT OF WATER MANAGEMENT				DESIGNED	
BUREAU OF ENGINEERING SERVICES				CHECKED	
DRAINAGE STRUCTURE DETAILS				REVIEWED	
				<b>A.16</b>	
				OF	
				PN	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT  
STANDARD DETAILS A.16**

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	346
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				

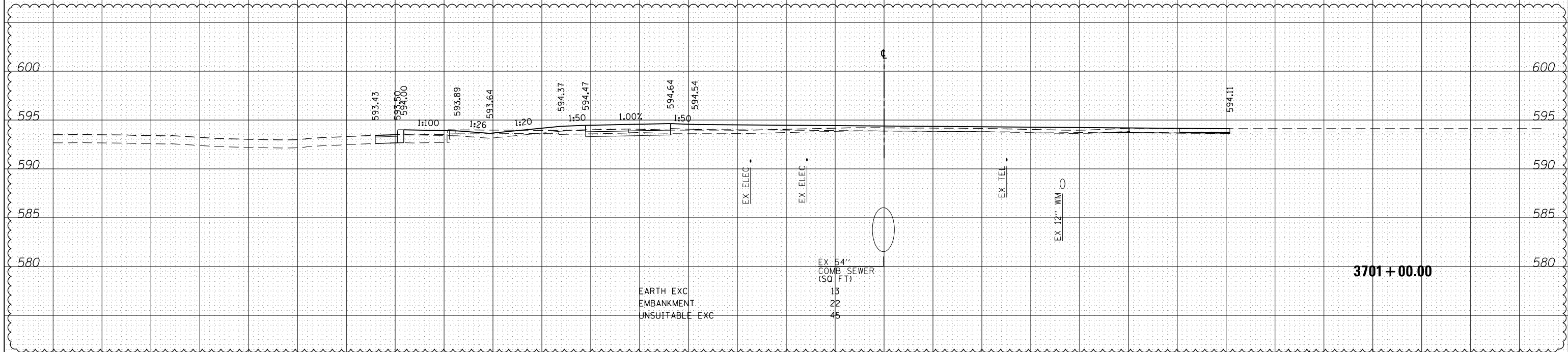
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USER NAME	DESIGNED	REVISIONS
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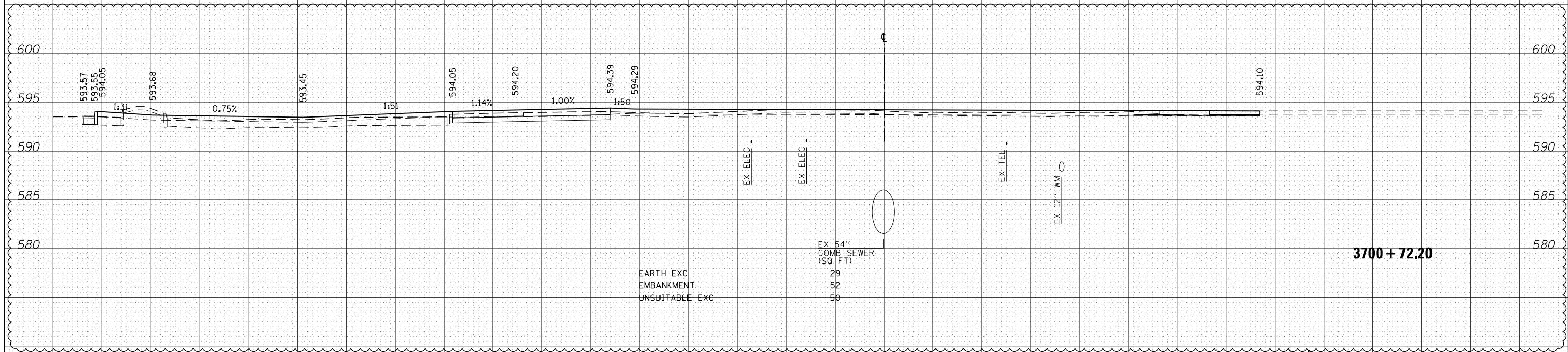


**NOTES:**  
 1. EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.

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



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



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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/19/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

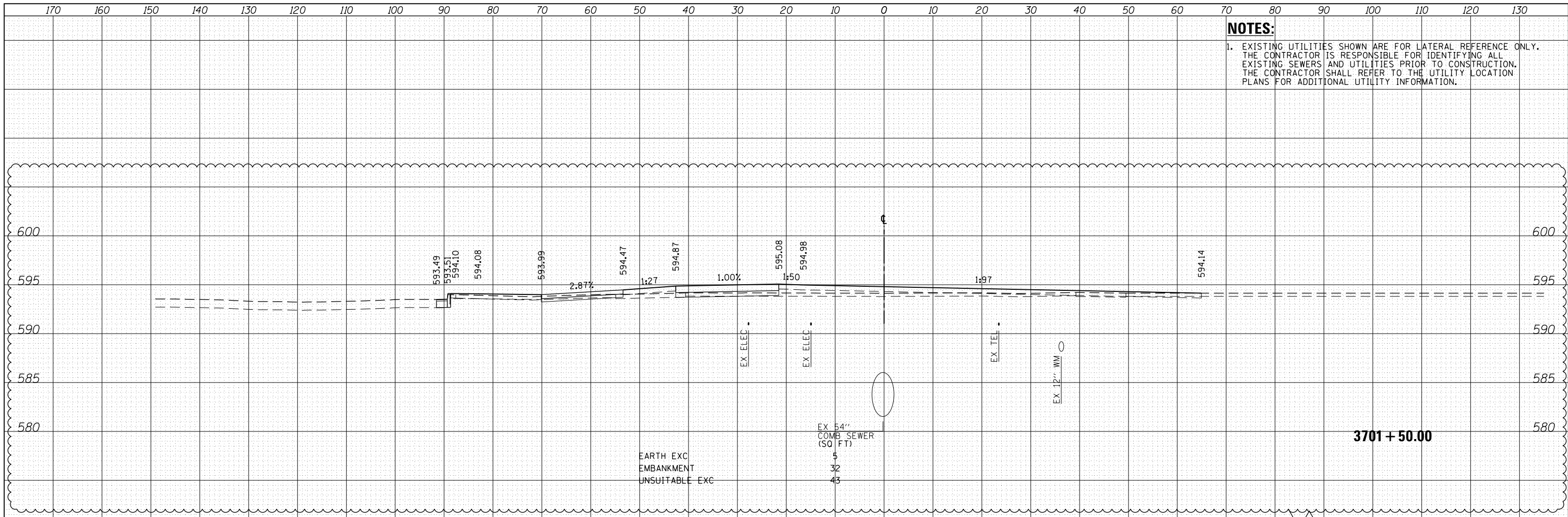
**CROSS SECTIONS  
 PEORIA STREET STAGE 2**

SCALE: 10:H 5:V SHEET 2 OF 10 SHEETS STA. 3700+72.20 TO STA. 3701+00.00

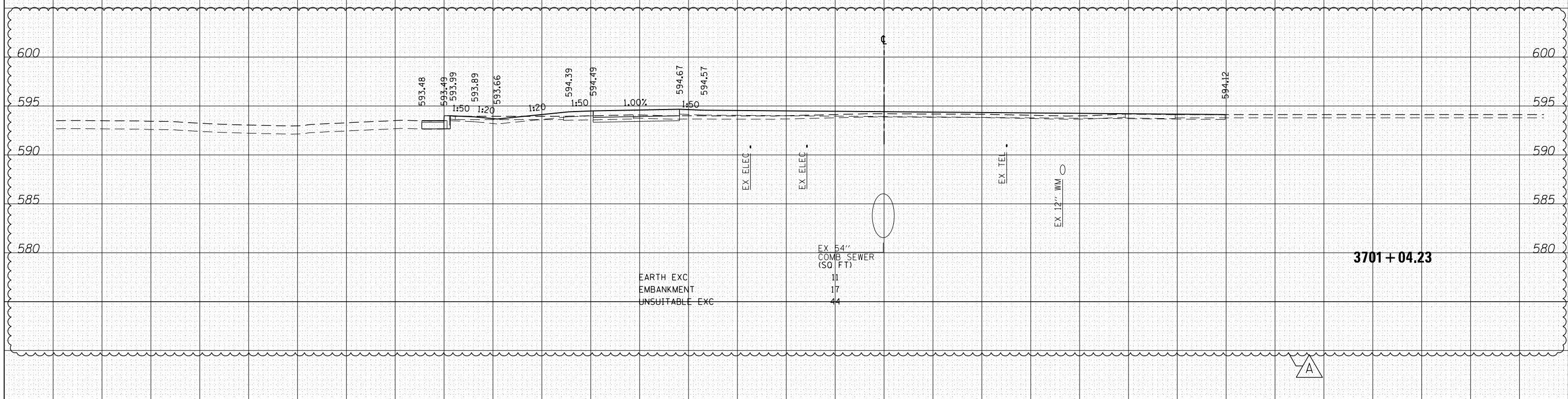
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	348
				CONTRACT NO. 60W29

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



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



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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/19/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

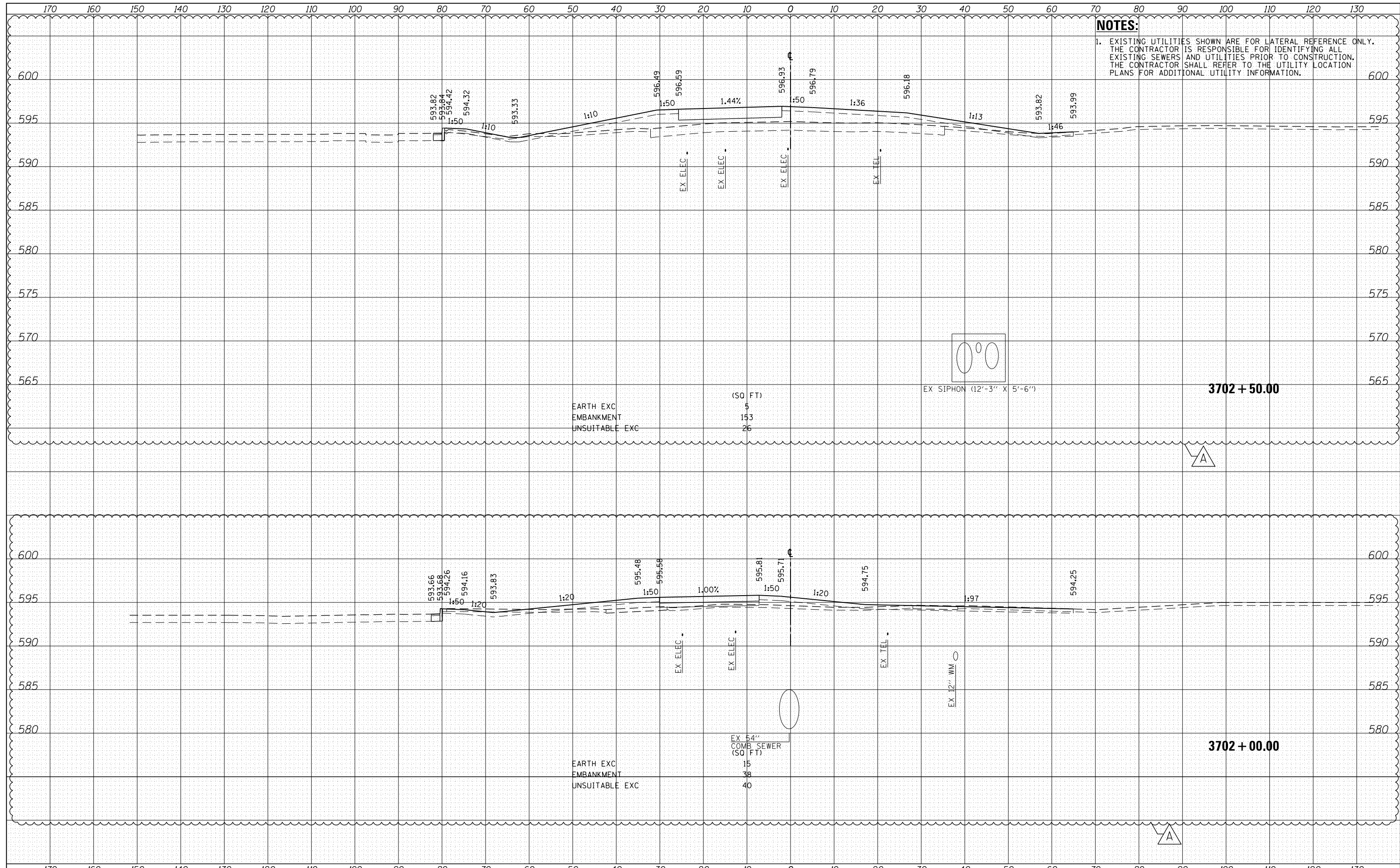
<b>CROSS SECTIONS    PEORIA STREET STAGE 2</b>	
SCALE: 10:H 5:V	SHEET 3 OF 10 SHEETS
STA. 3701+04.23 TO STA. 3701+50.00	

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	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/19/2013	DATE - 10/30/2013	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 PEORIA STREET STAGE 2**

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

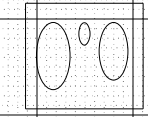
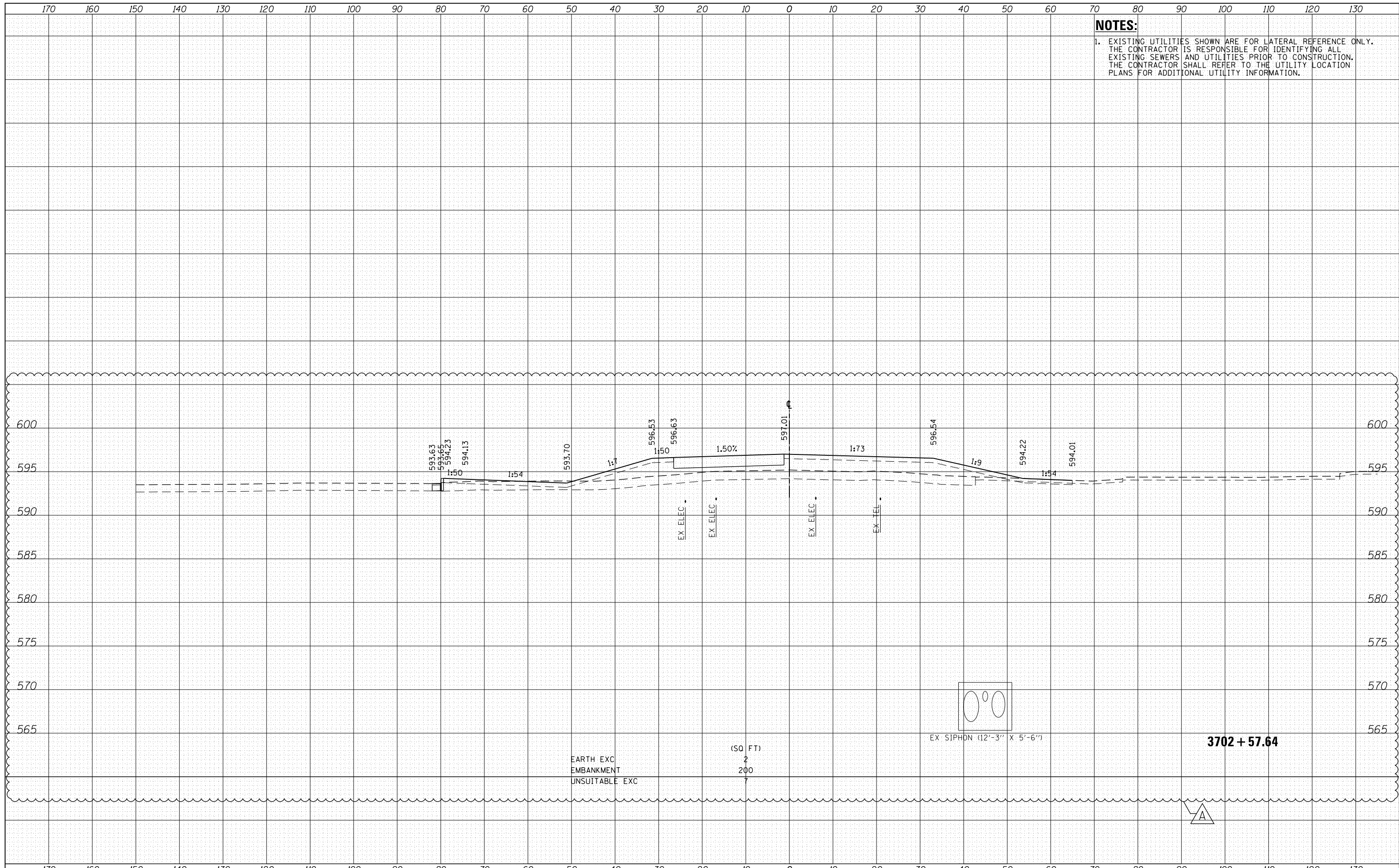
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	356	350
CONTRACT NO. 60W29				
ILLINOIS FED. AID PROJECT				



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

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



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

EARTH EXC  
 EMBANKMENT  
 UNSUITABLE EXC

(SQ. FT)  
 2  
 200  
 7

3702 + 57.64



D160W29-Sht-XS-01.dgn	DESIGNED - JLW	REVISED - A 12/13/2013
USER NAME = BAW:tor t	DRAWN - KAL	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/19/2013	DATE - 10/30/2013	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 PEORIA STREET STAGE 2

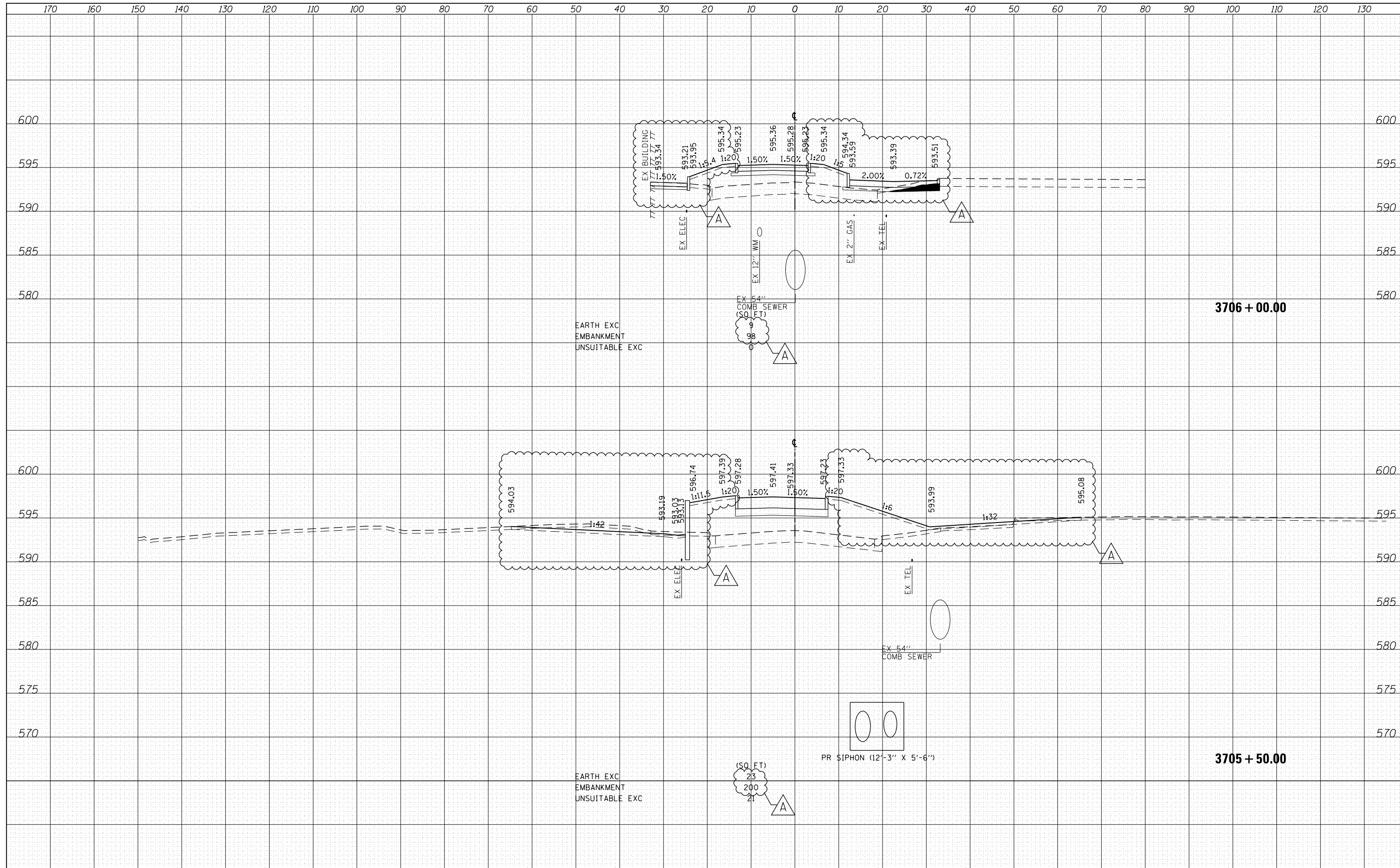
SCALE: 10:H 5:V SHEET 5 OF 10 SHEETS STA. 3702+57.64 TO STA. 3702+57.64

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	



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

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



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

600  
595  
590  
585  
580  
600  
595  
590  
585  
580  
575  
570

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

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PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 12/19/2013	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				







