

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

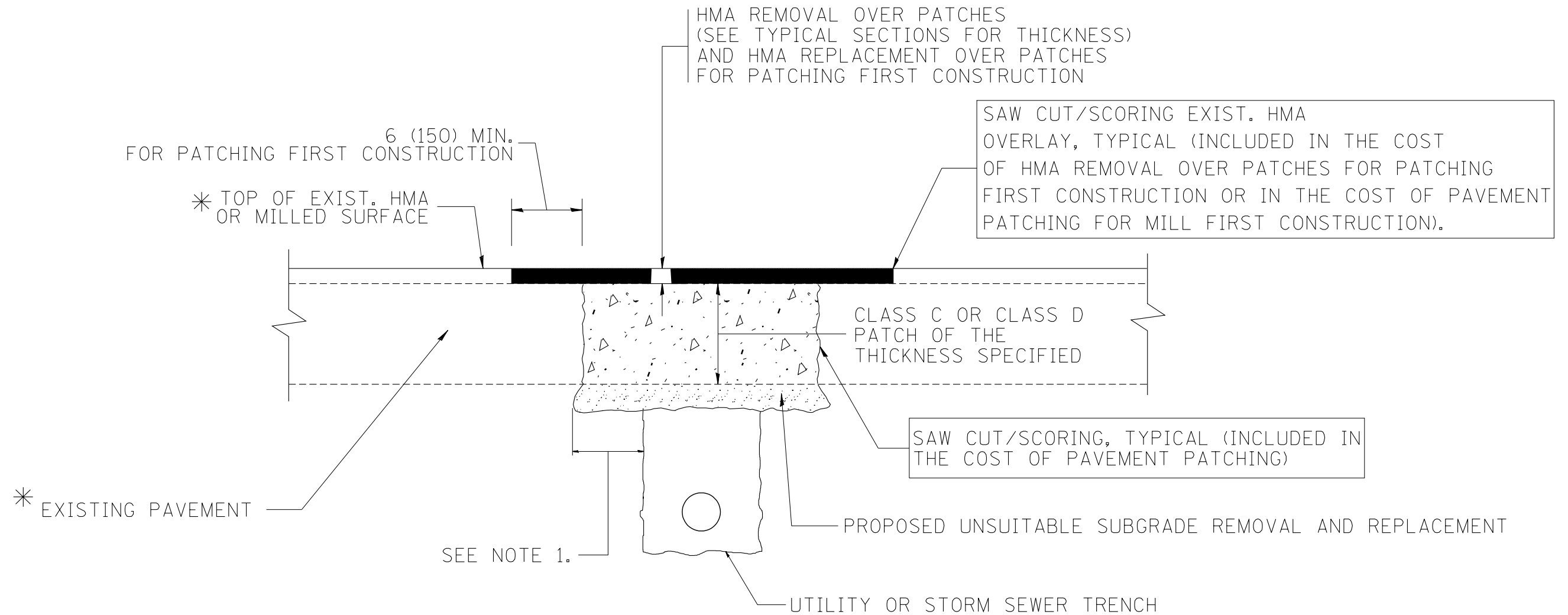
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	PLOT SCALE = 1/8" = 1' / m	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	201
BD600-03 (BD-8)		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

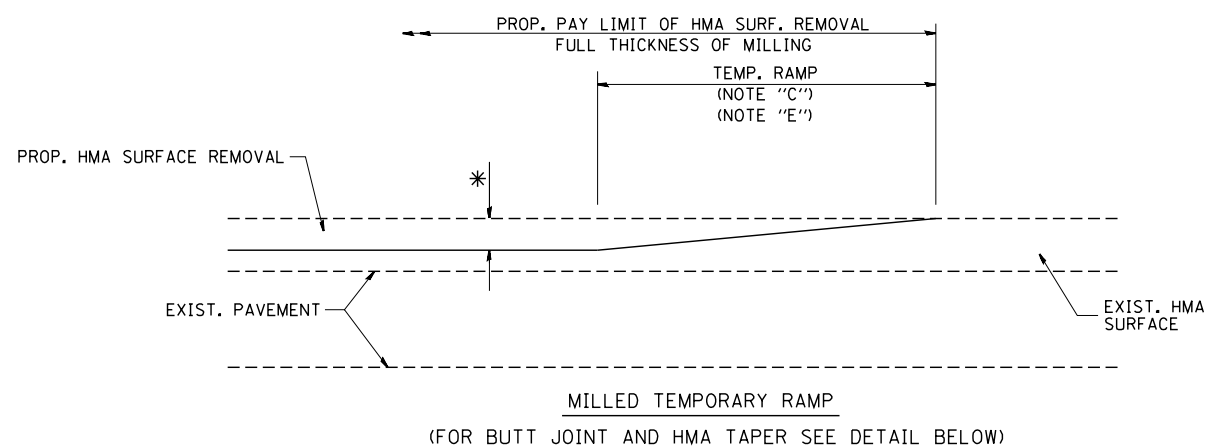
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

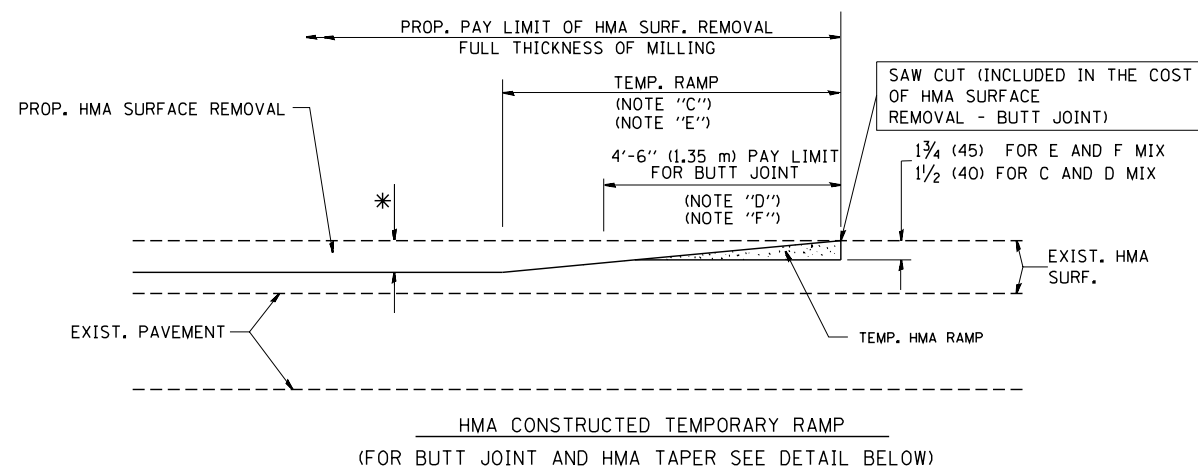
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 202
BD400-04 (BD-22)			CONTRACT NO. 60X61	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

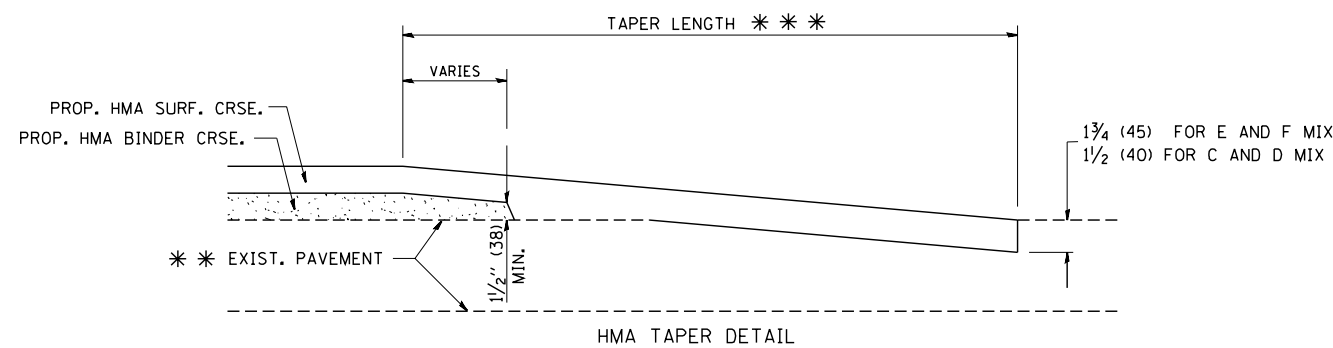
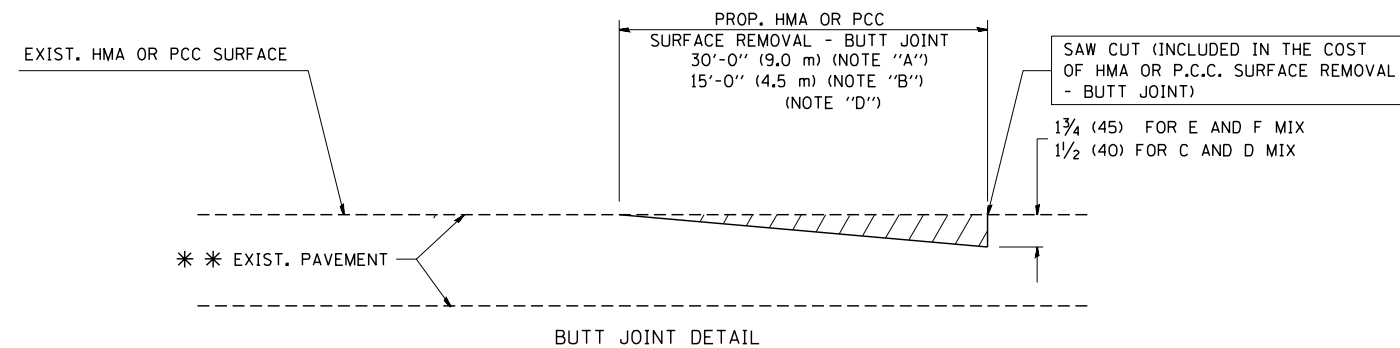


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

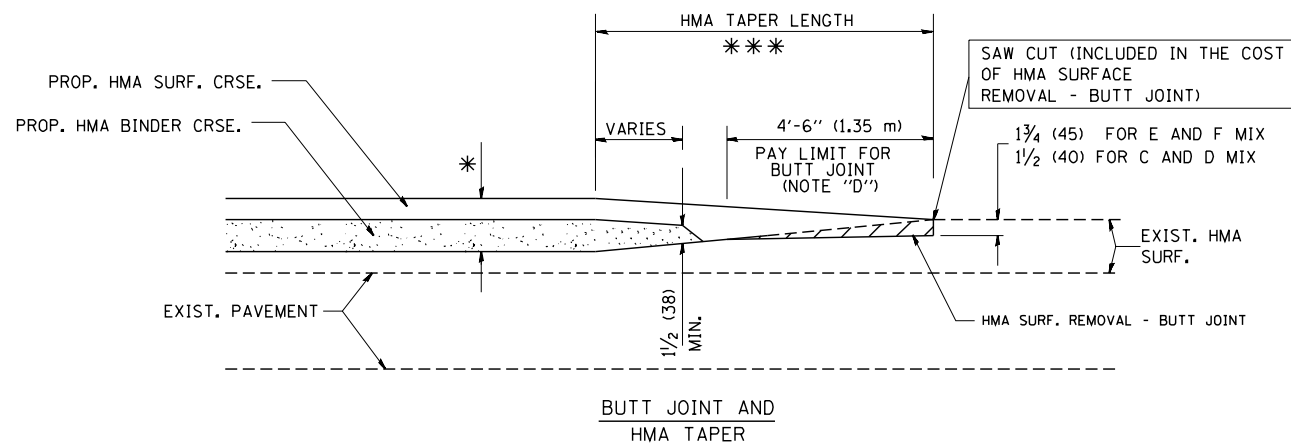
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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USER NAME = gaglianobt
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 06-13-90

REVISED - R. SHAH 10-25-94
REVISED - A. ABBAS 03-21-97
REVISED - M. GOMEZ 04-06-01
REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

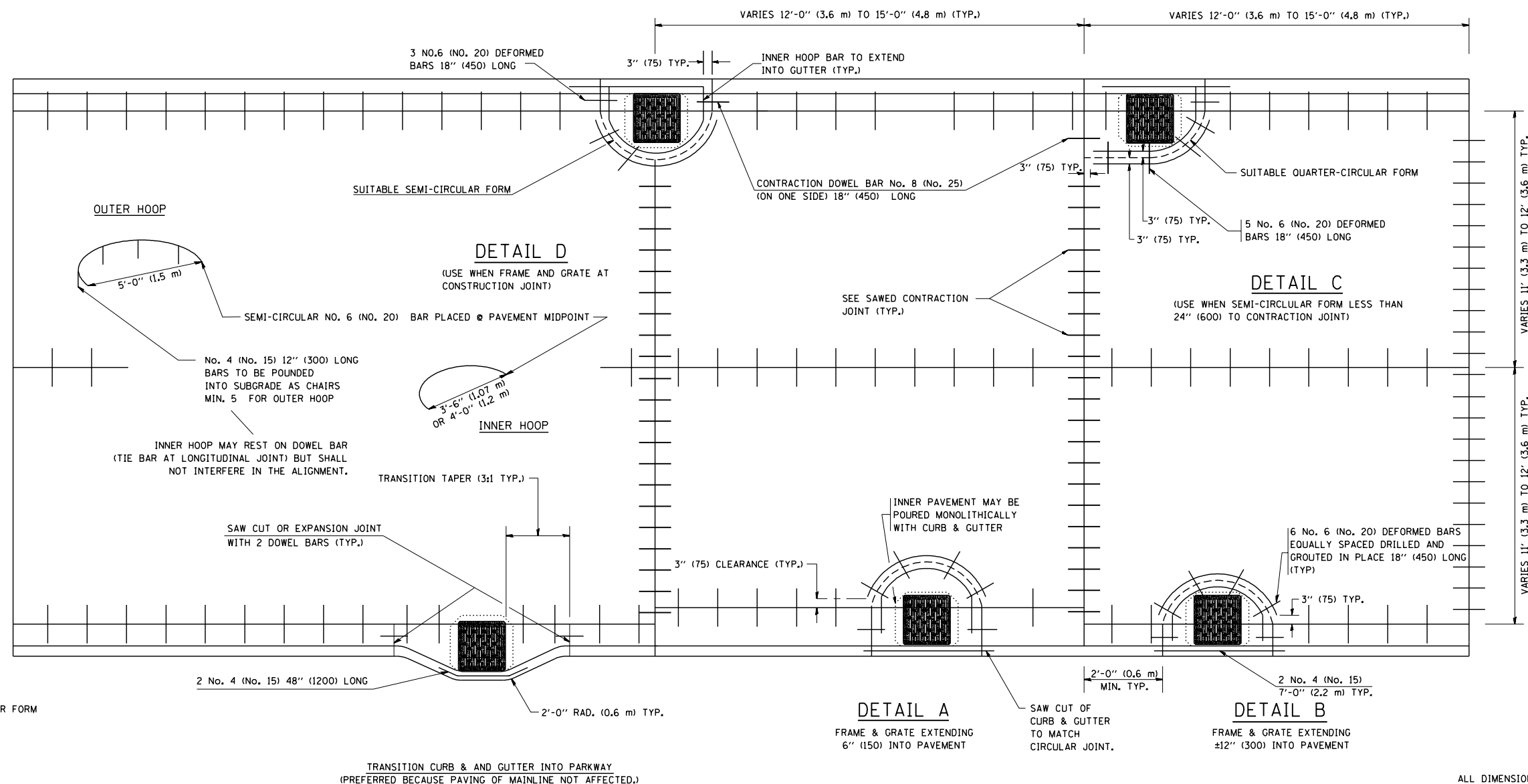
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90/94/290	2013-077R	COOK	317	203
BD400-05 BD32			CONTRACT NO. 60X61	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

NOTES :

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



LEGEND:

- CASTING
- SUITABLE SEMI-CIRCULAR FORM

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

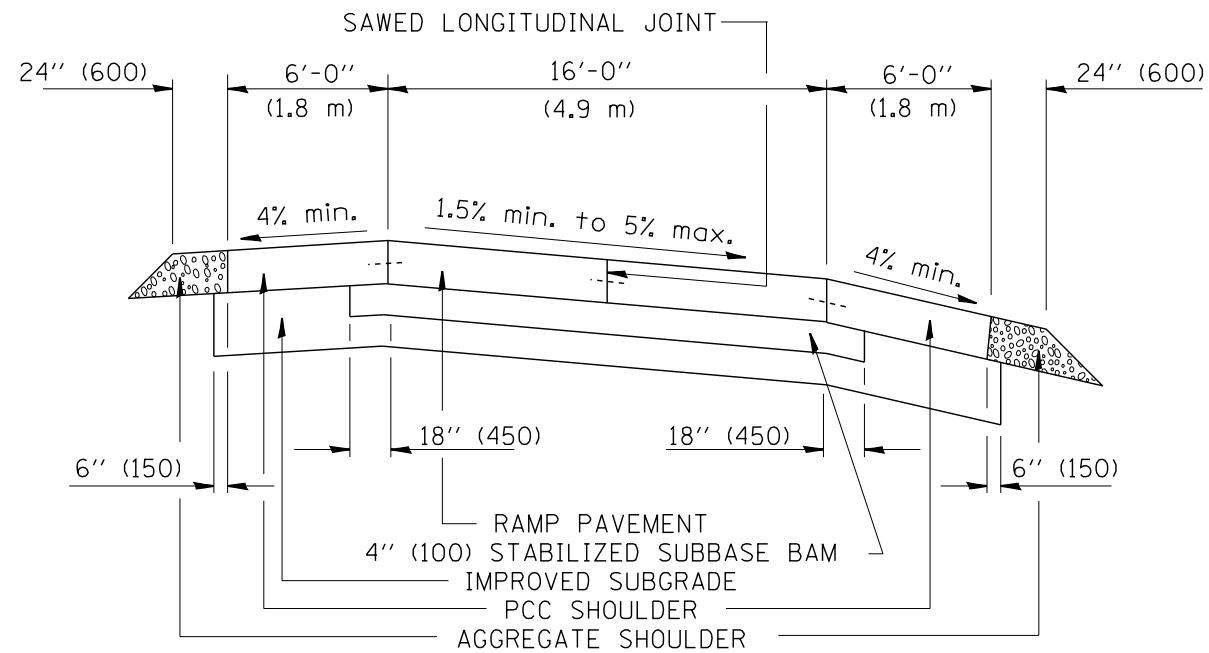
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		DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00
	PLOT SCALE = 50.0000' / IN.	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02
	PLOT DATE = 1/4/2008	DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PCC PAVEMENT ROUNDOUTS AT
CURB AND GUTTER

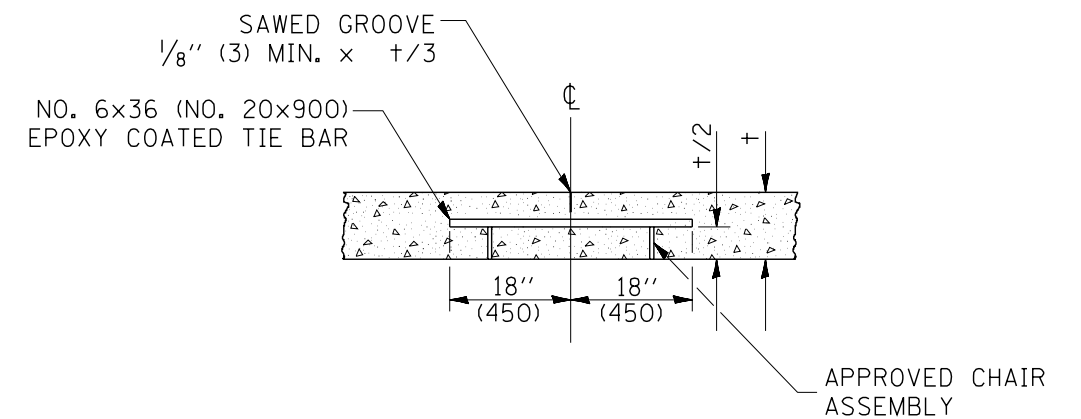
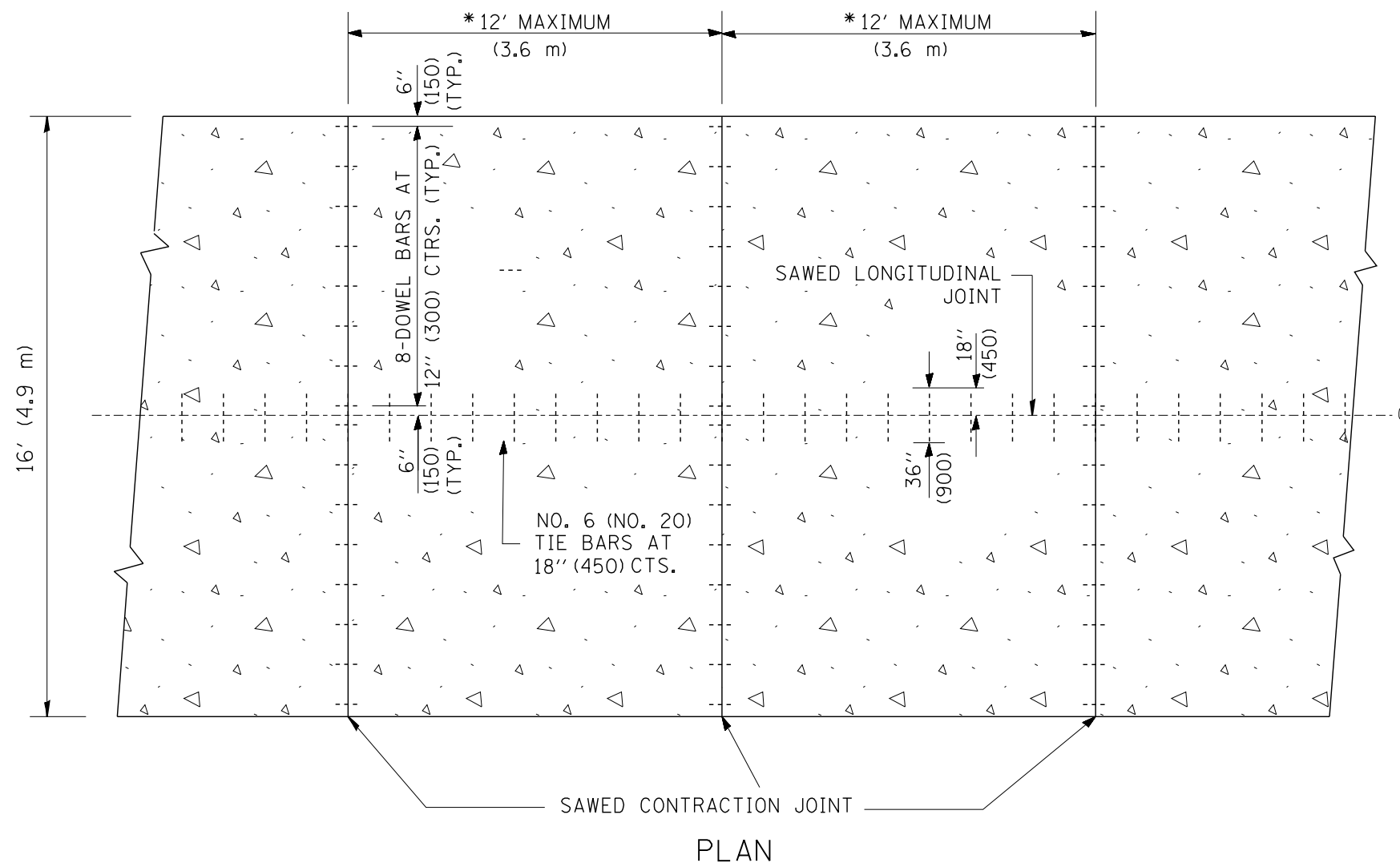
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 204
BD-48			CONTRACT NO. 60X61	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

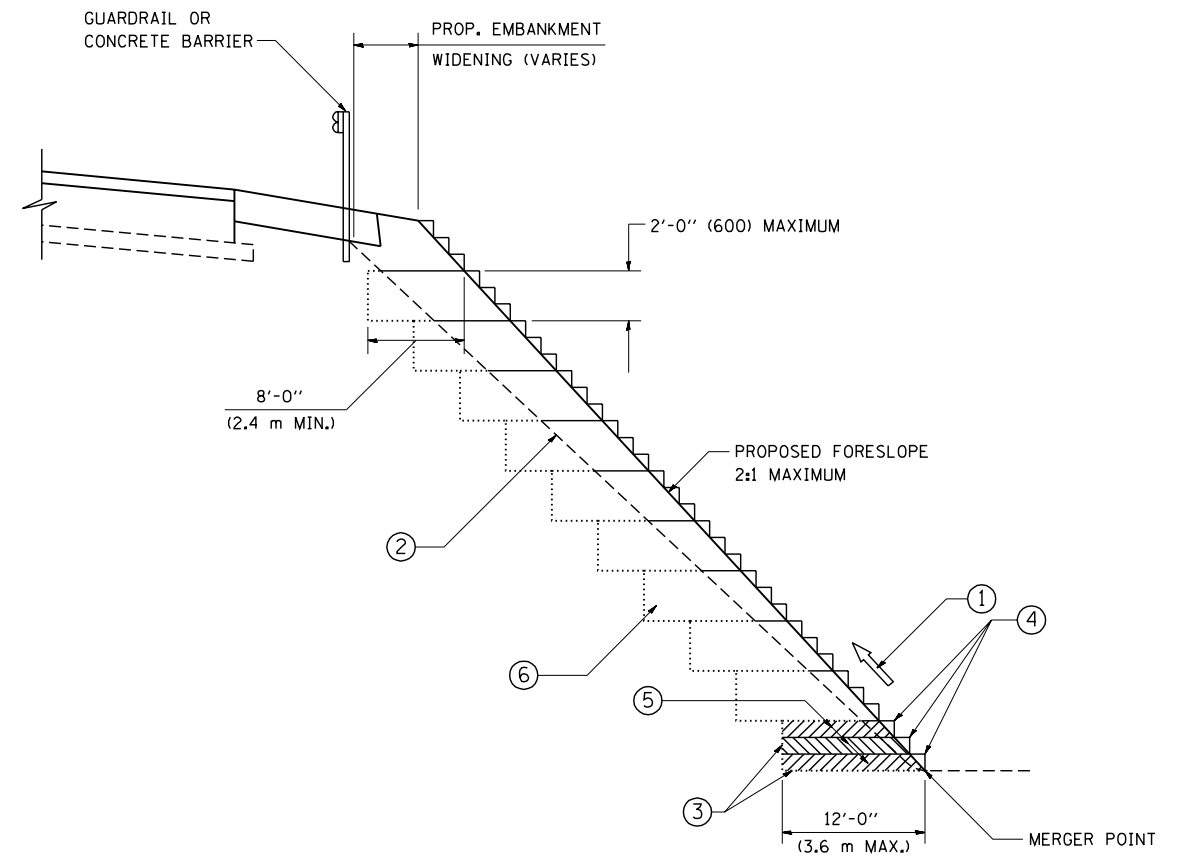
1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) RAMPS AT 12' (3.6 m).
2. ALL BARS TO BE EPOXY COATED.



SAWED LONGITUDINAL JOINT

ALL DIMENSIONS ARE IN INCHES
(MILLIMETERS) UNLESS OTHERWISE NOTED

FILE NAME = W:\diststd\22x34\bd49.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL FOR CENTERLINE SAW CUT 16' (4.9 m) AND VARIABLE JOINTED PCC PAVEMENT FOR RAMPS	F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 205		
PLOT SCALE = 50.0000' / IN.	CHECKED - A. ABBAS	DRAWN - TOM MATOUSEK	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60X61		
PLOT DATE = 1/4/2008	DATE - 10-18-02	NO. 6 (NO. 20) TIE BARS AT 18" (450) CTS.	REVISED -			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).

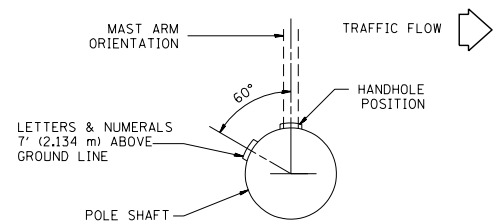
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN - CADD	REVISED -
		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

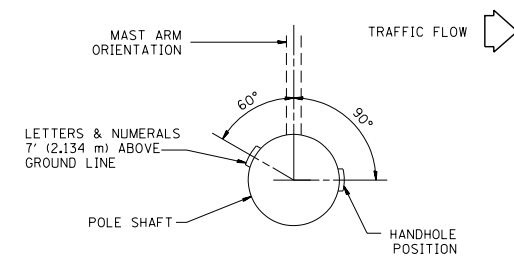
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL			
FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

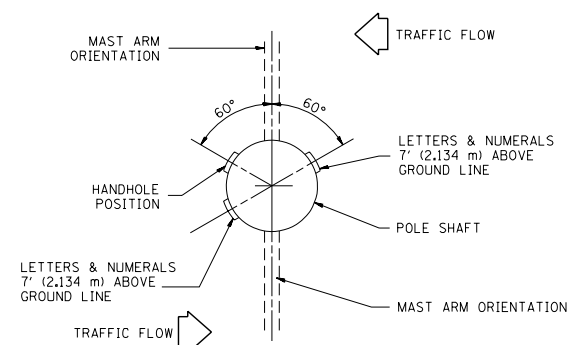
F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 206
BD-51			CONTRACT NO. 60X61	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



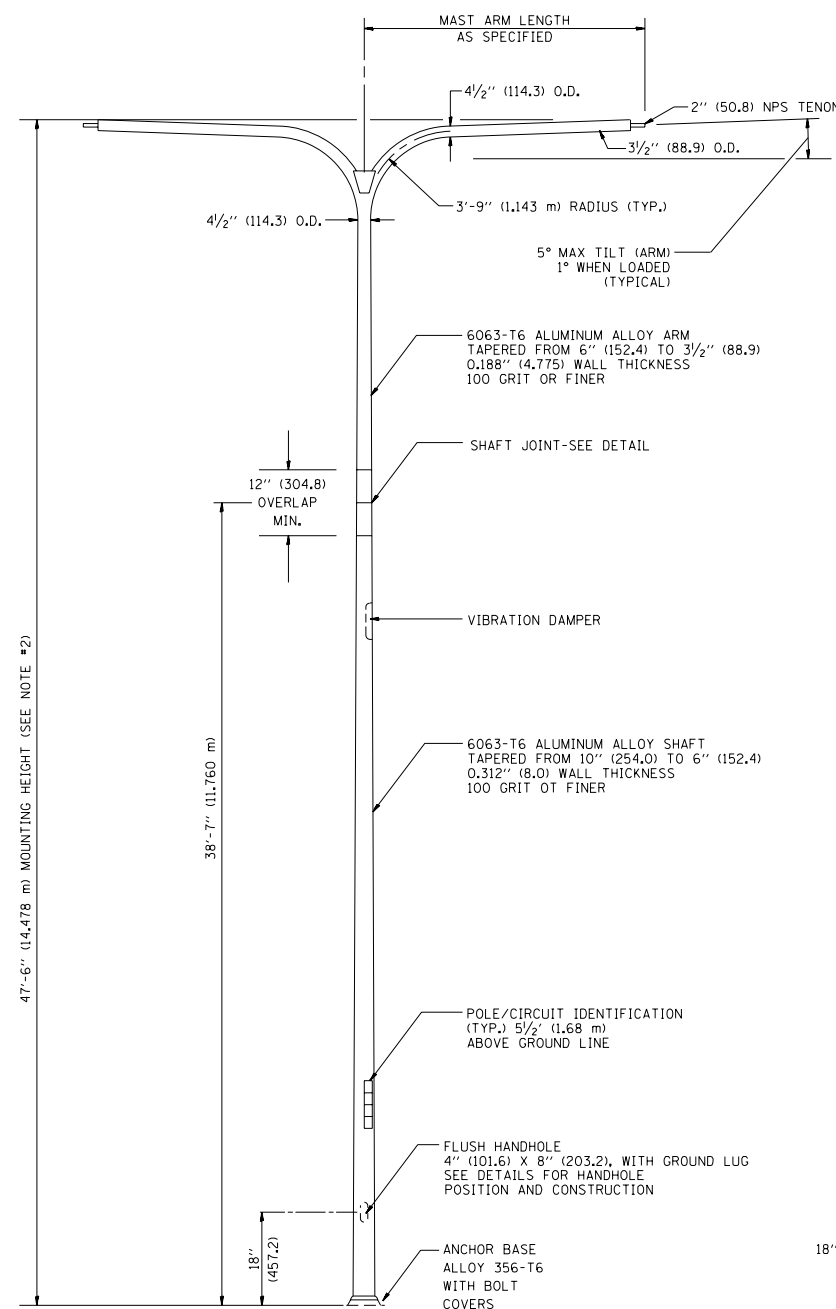
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



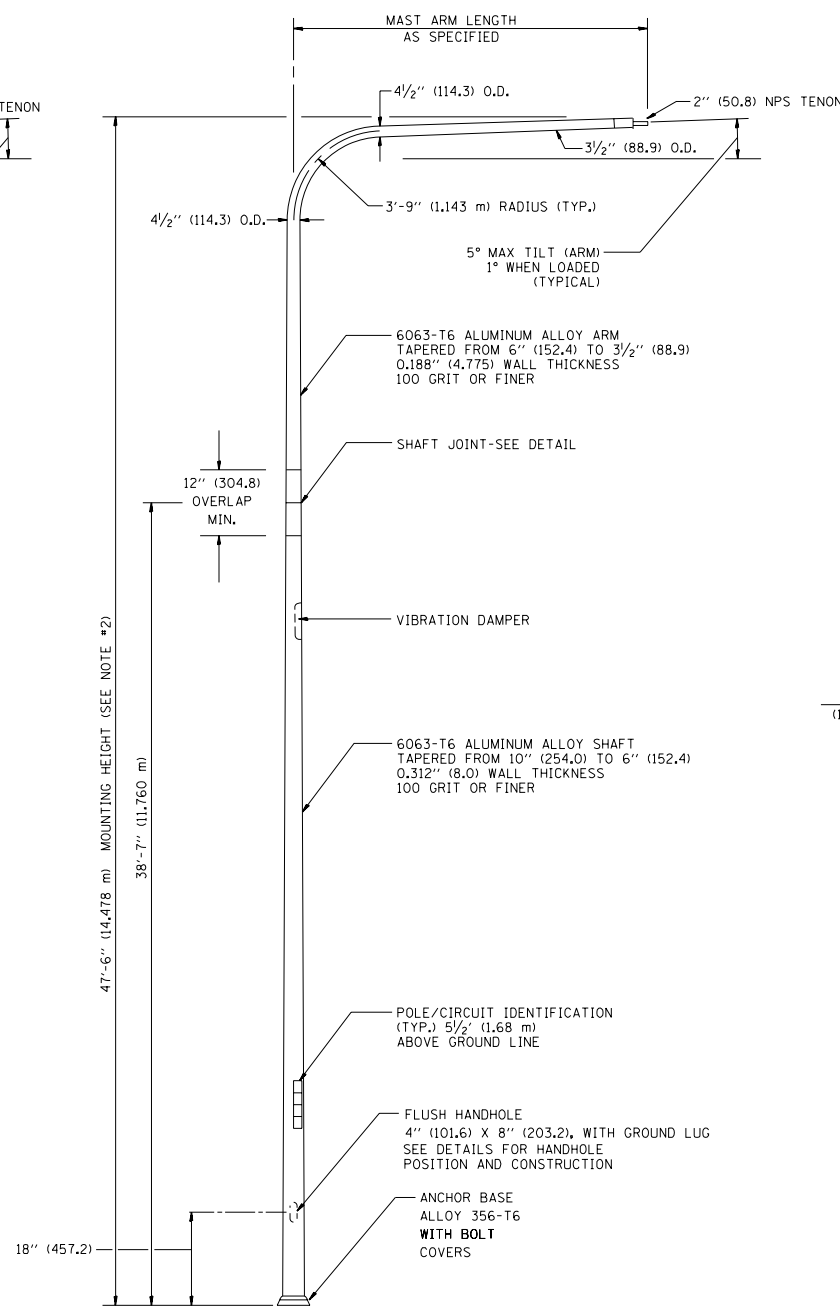
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

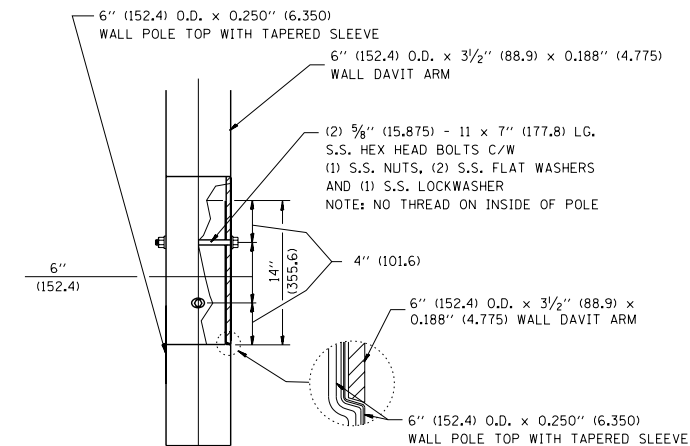


TWIN ARM POLE

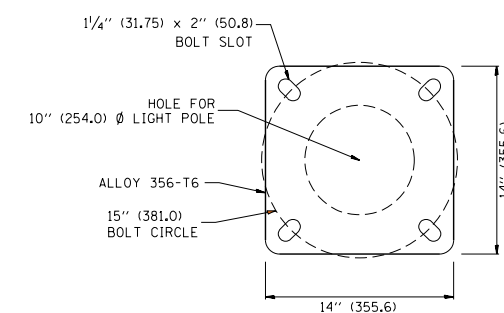


SINGLE ARM POLE

- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

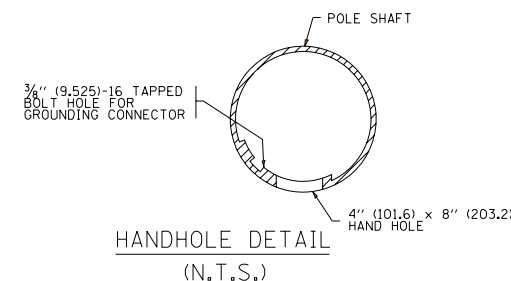


DAVIT ARM CONNECTION
[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL

(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



HANDHOLE DETAIL
(N.T.S.)

FILE NAME =	USER NAME = leysa	DESIGNED -	REVISED - D. DREW 05-07-92
ca:\pw_work\pwidot\leysa\d0108315\be410.dgn		DRAWN - LEY	REVISED - R. TOMSONS 09-06-00
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. TOMSONS 09-02-03
	PLOT DATE = 4/4/2013	DATE -	REVISED - R. TOMSONS 01-18-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

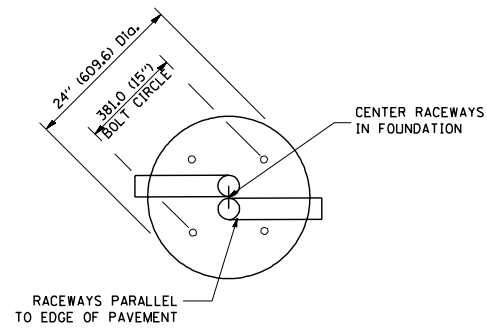
DAVIT LIGHT POLE
47'-6" (14.478 m) MOUNTING HEIGHT

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

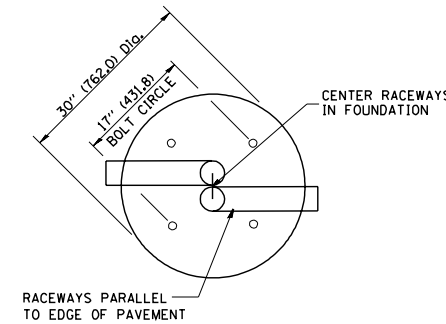
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	207
BE-410		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O _u = 0.75 TON/SQ.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O _u = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



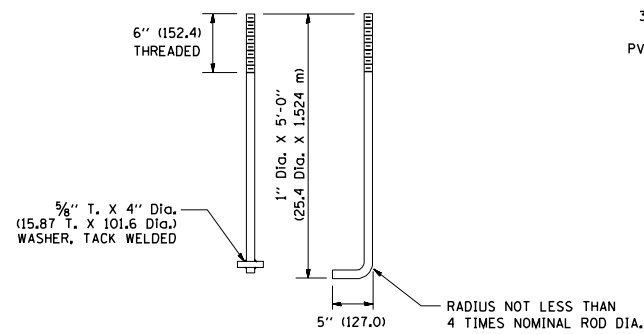
TOP VIEW



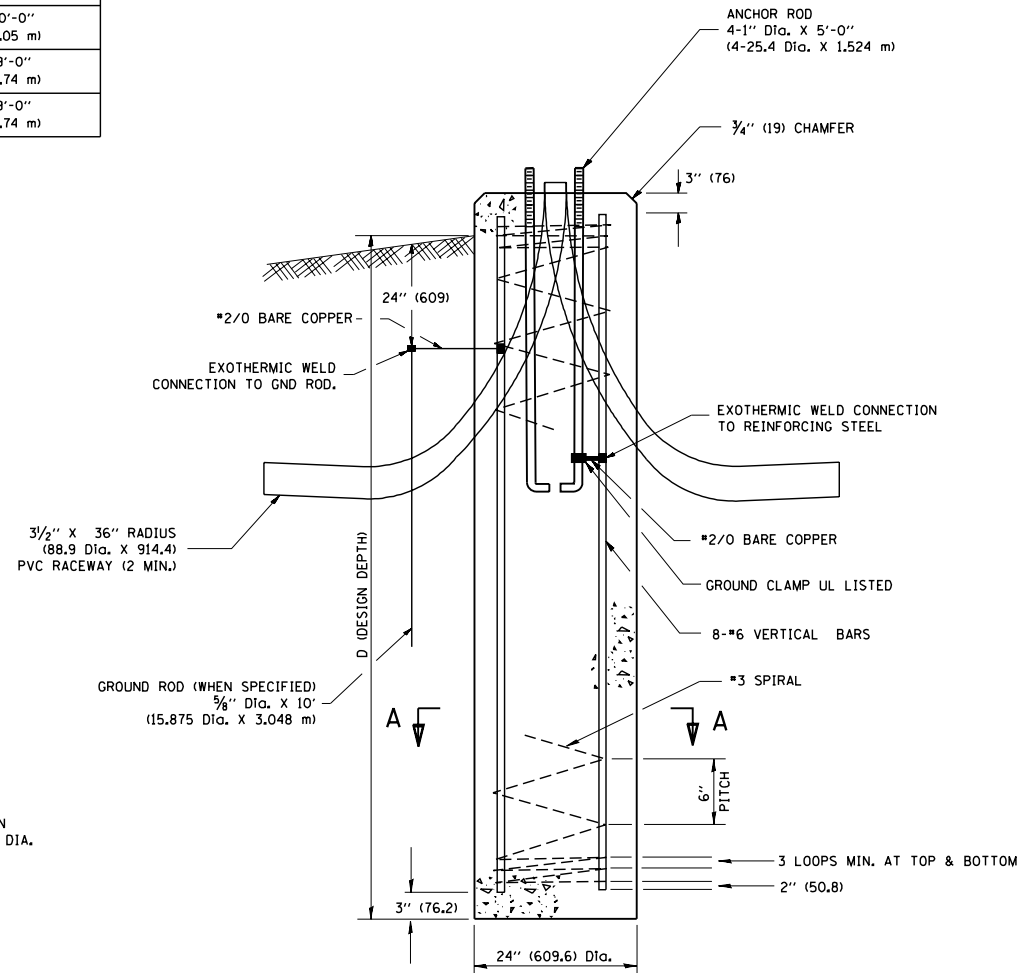
TOP VIEW

NOTES

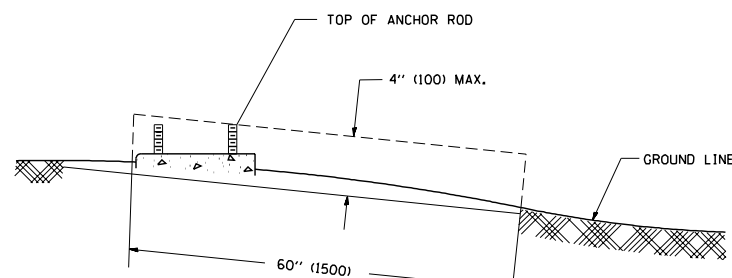
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION,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



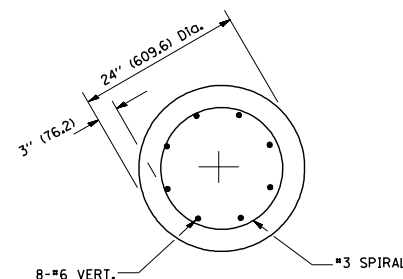
ANCHOR ROD DETAIL



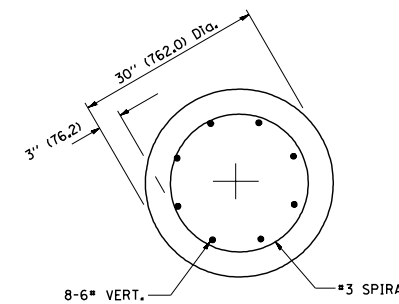
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

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USER NAME = gaglianob
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008

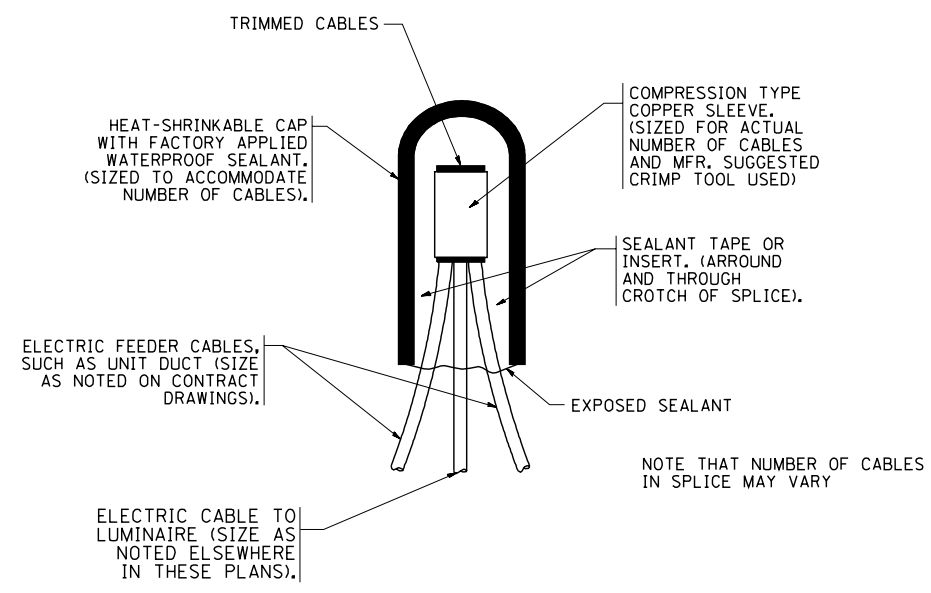
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DRAWN -
CHECKED -
DATE -

REVISED - 04-22-02
REVISED -
REVISED -
REVISED -

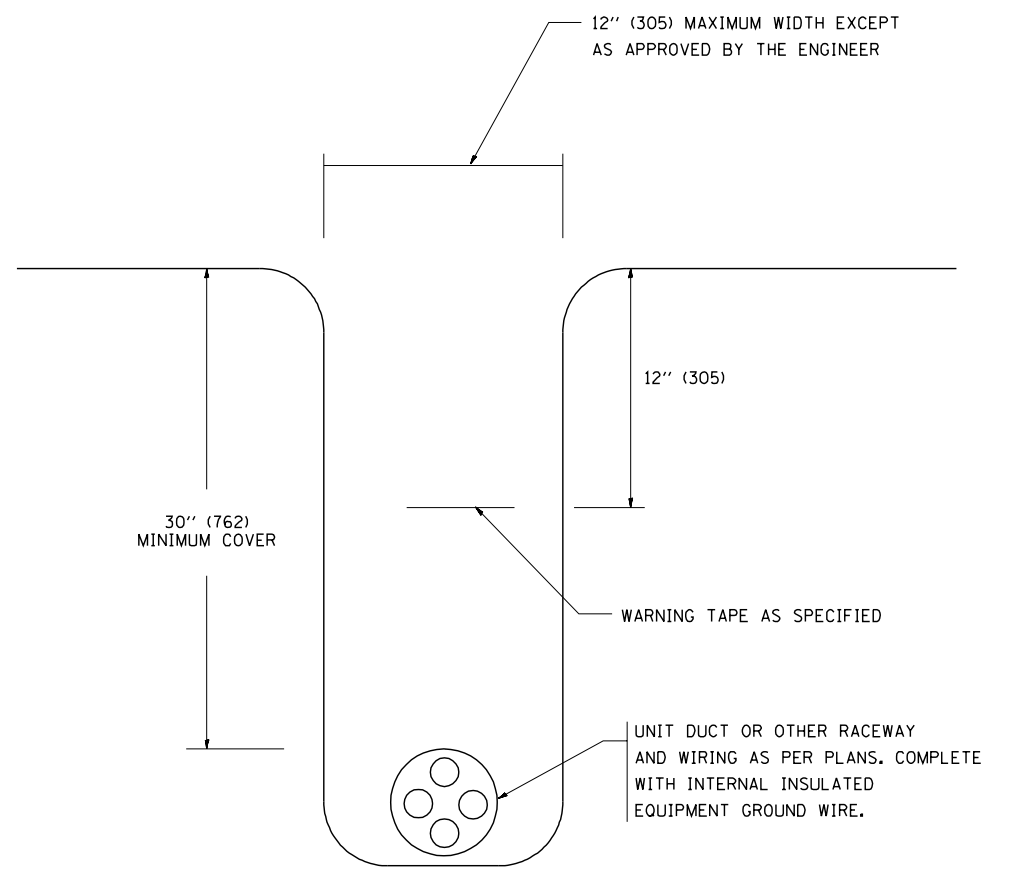
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47' 12" (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

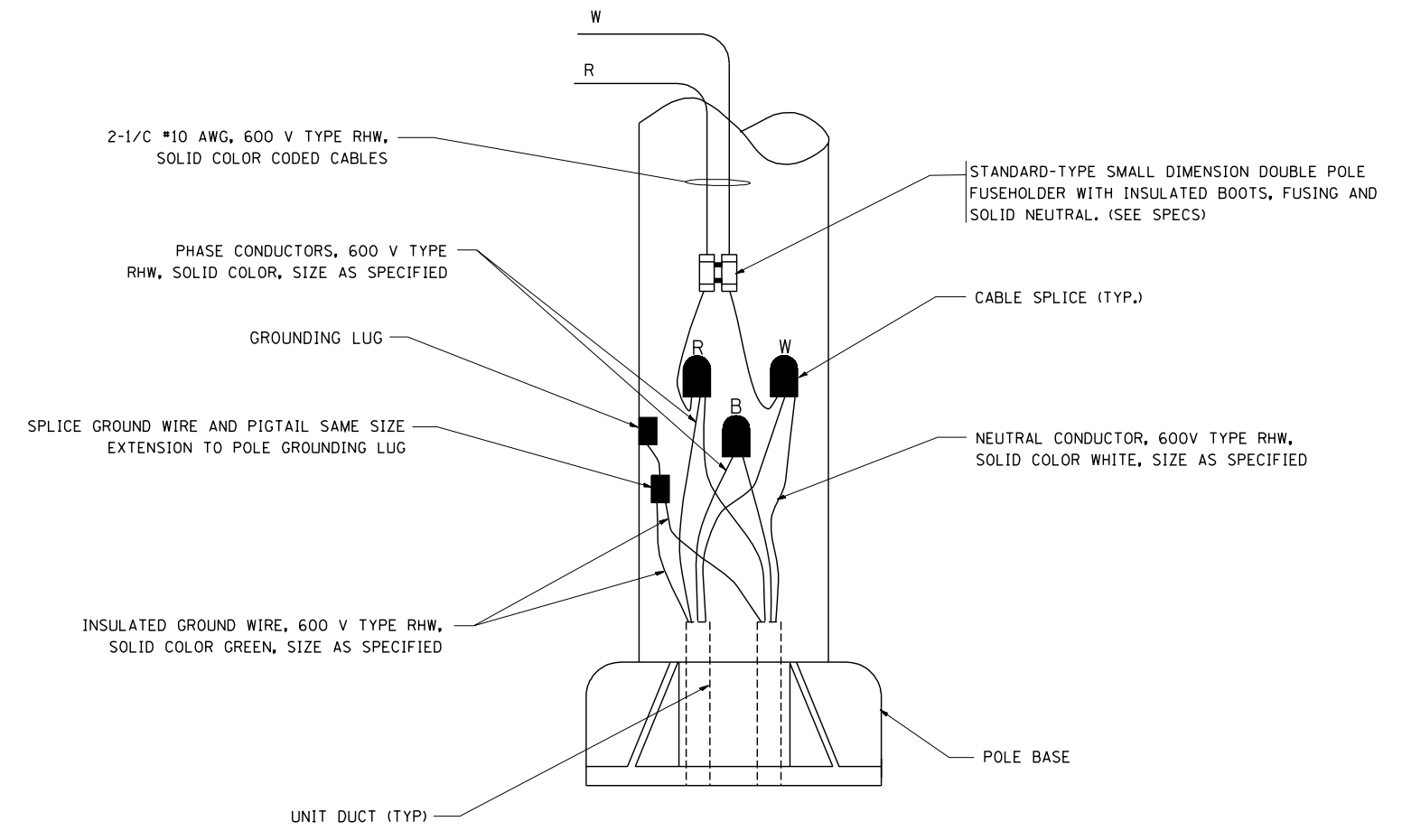
F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 208
BE-301		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



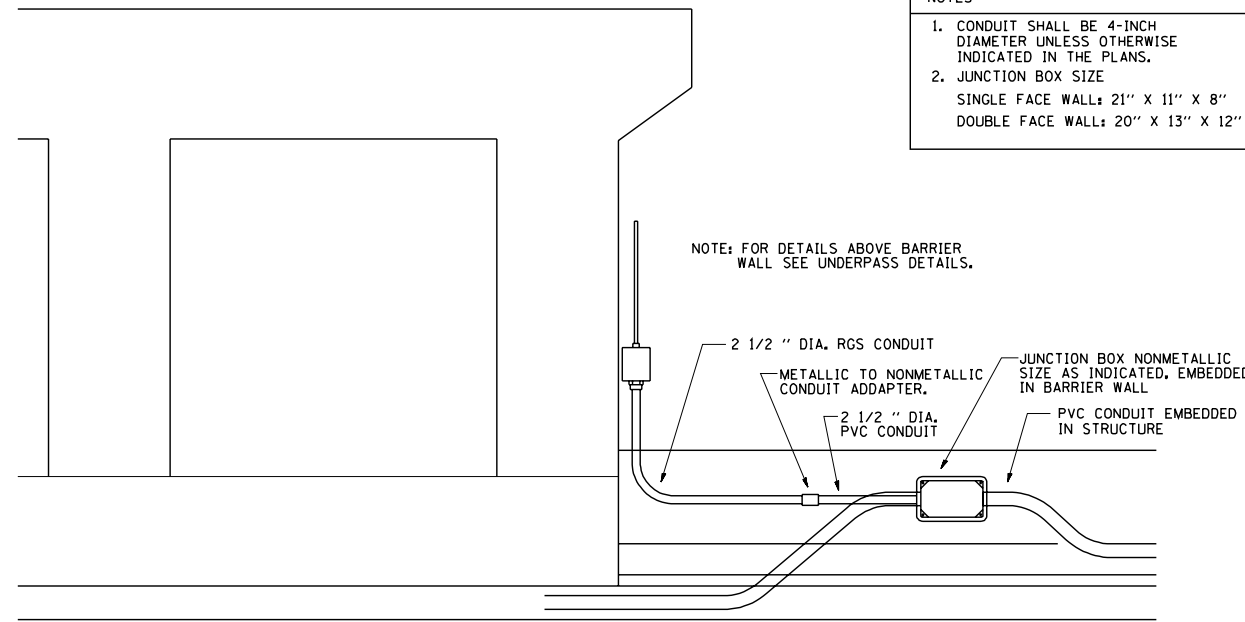
TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

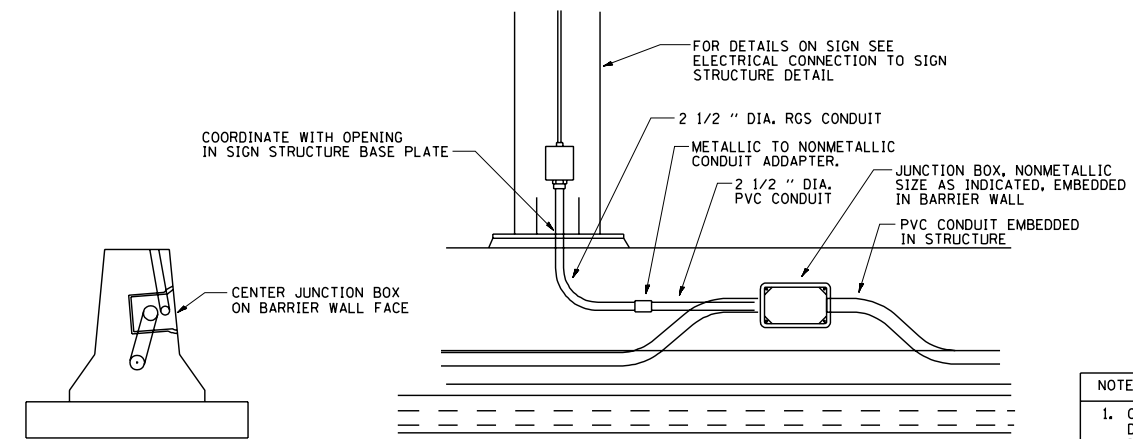


NOTES

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"

NOTE: FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

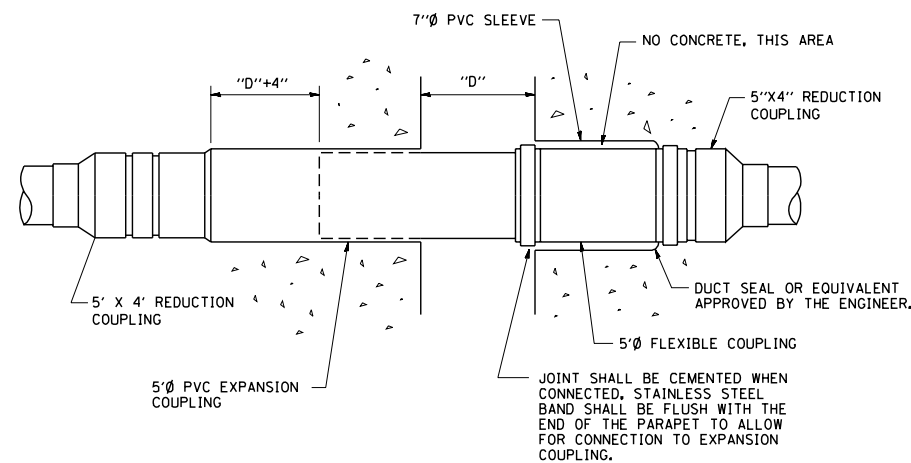
ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING



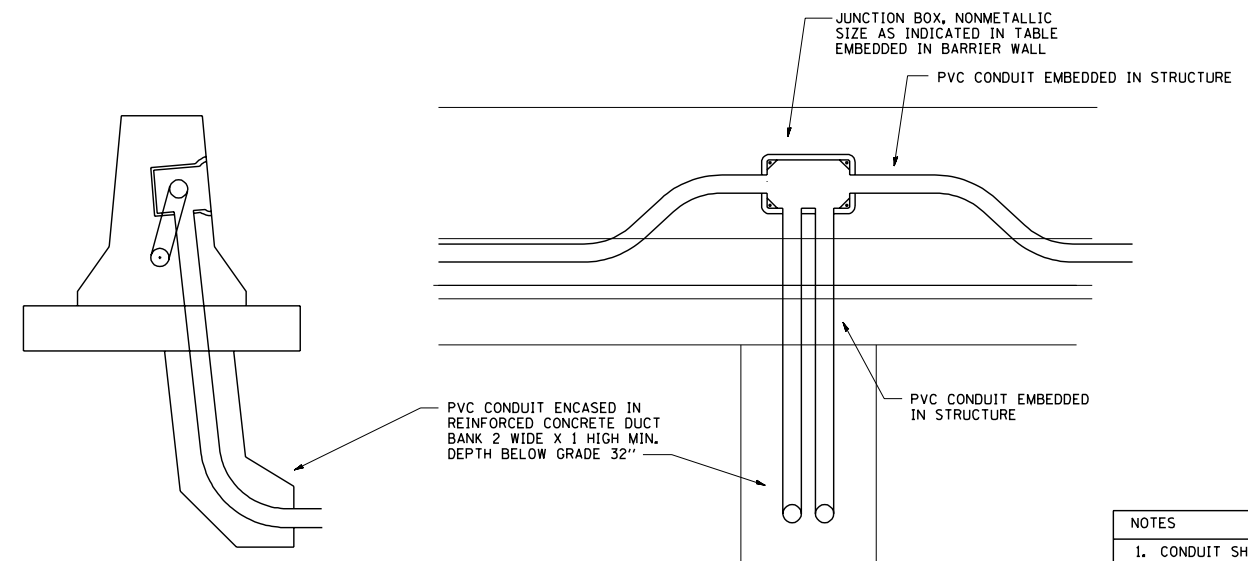
NOTES

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"

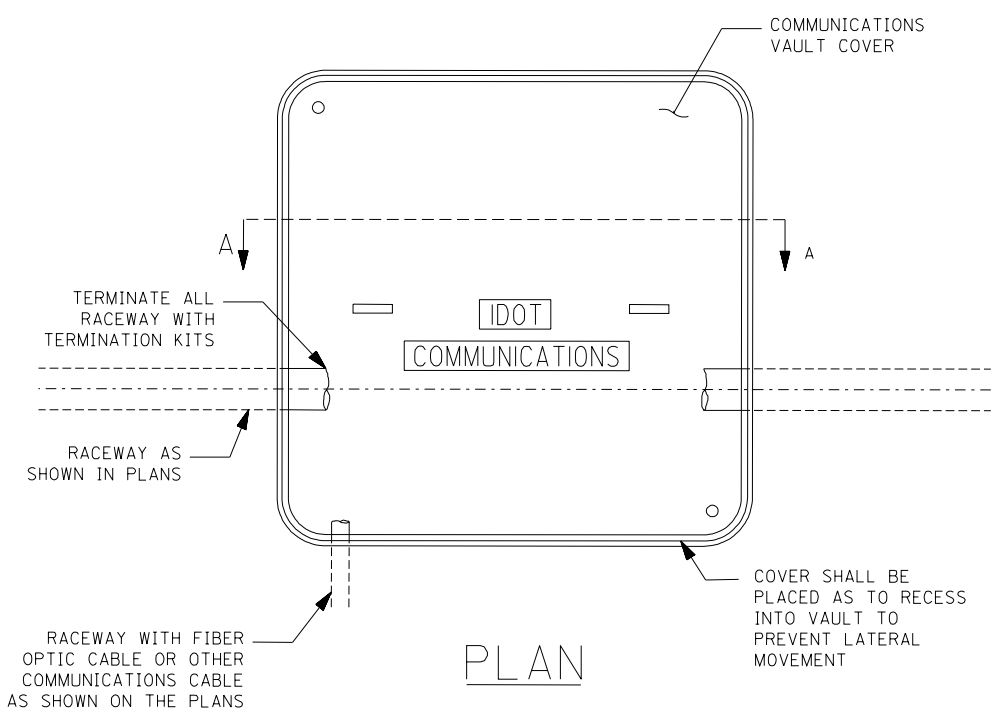
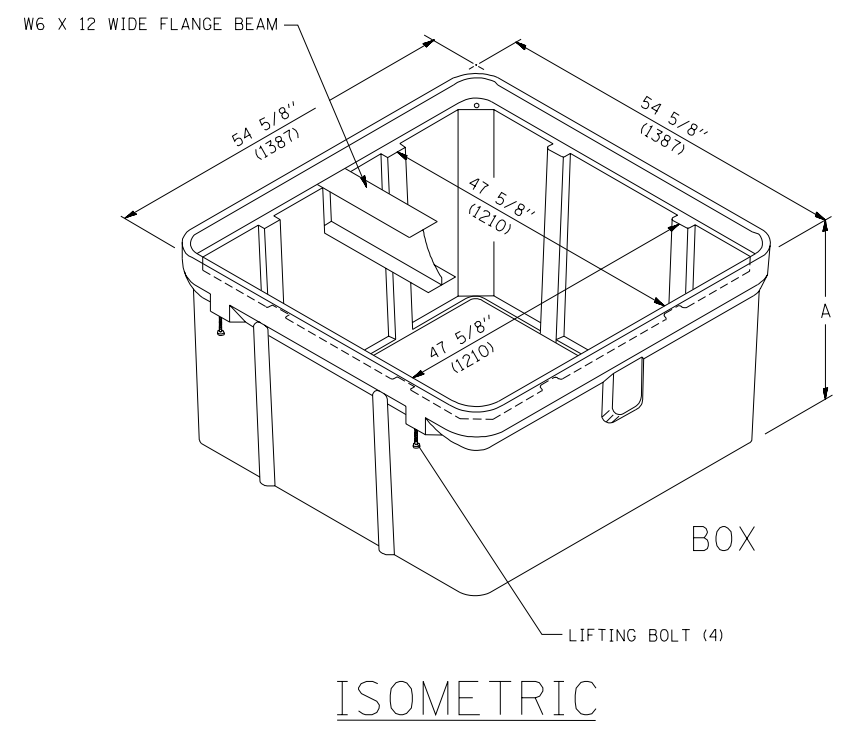
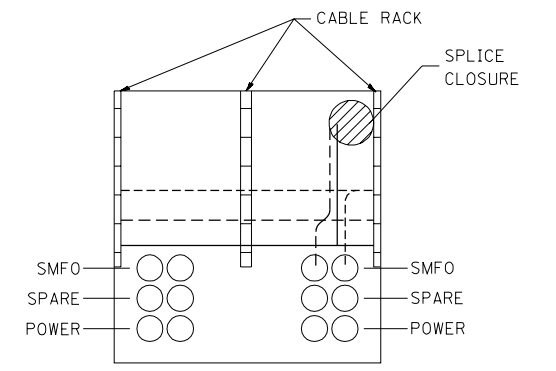
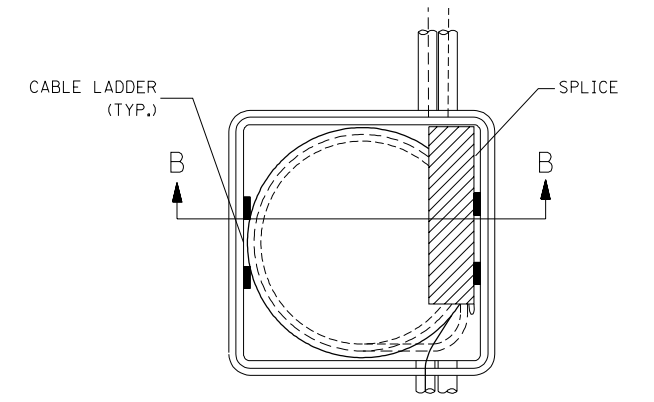
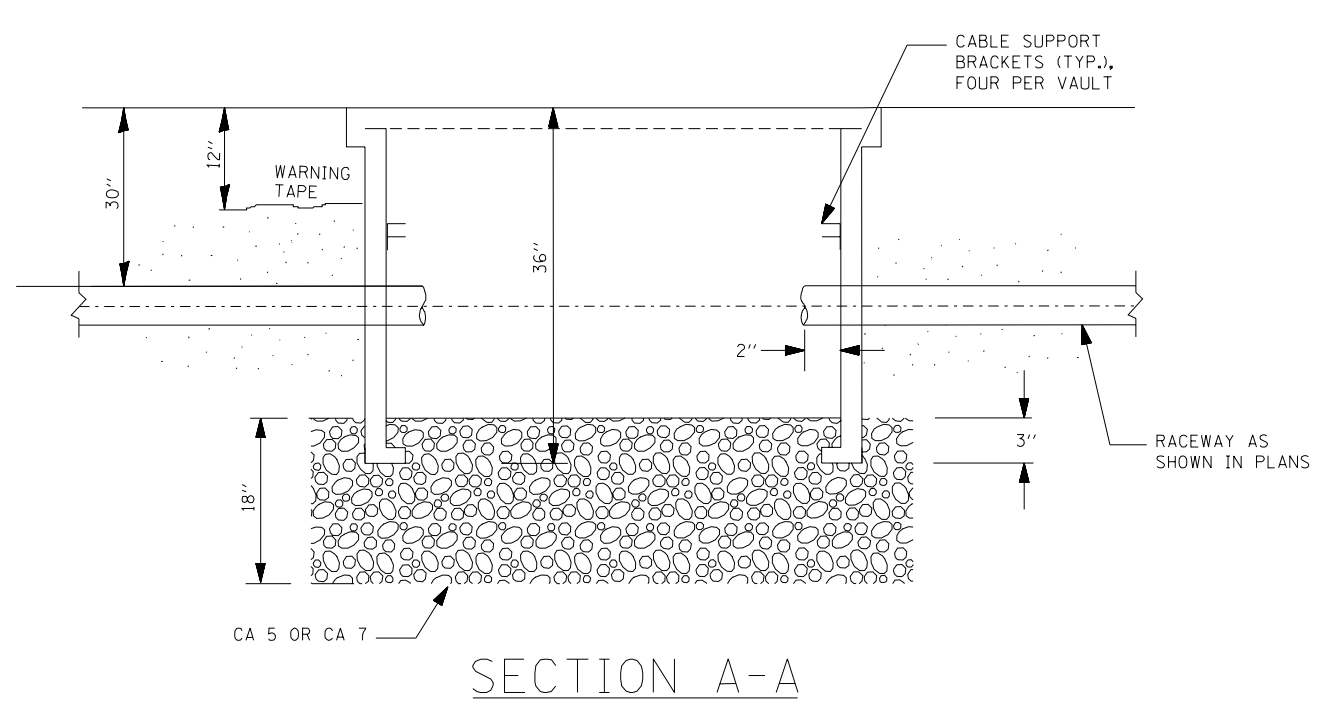
ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL

FILE NAME = be703.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED - REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 2/5/2009	DATE - 01-20-2009	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

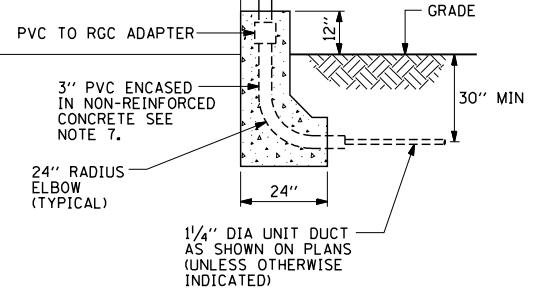
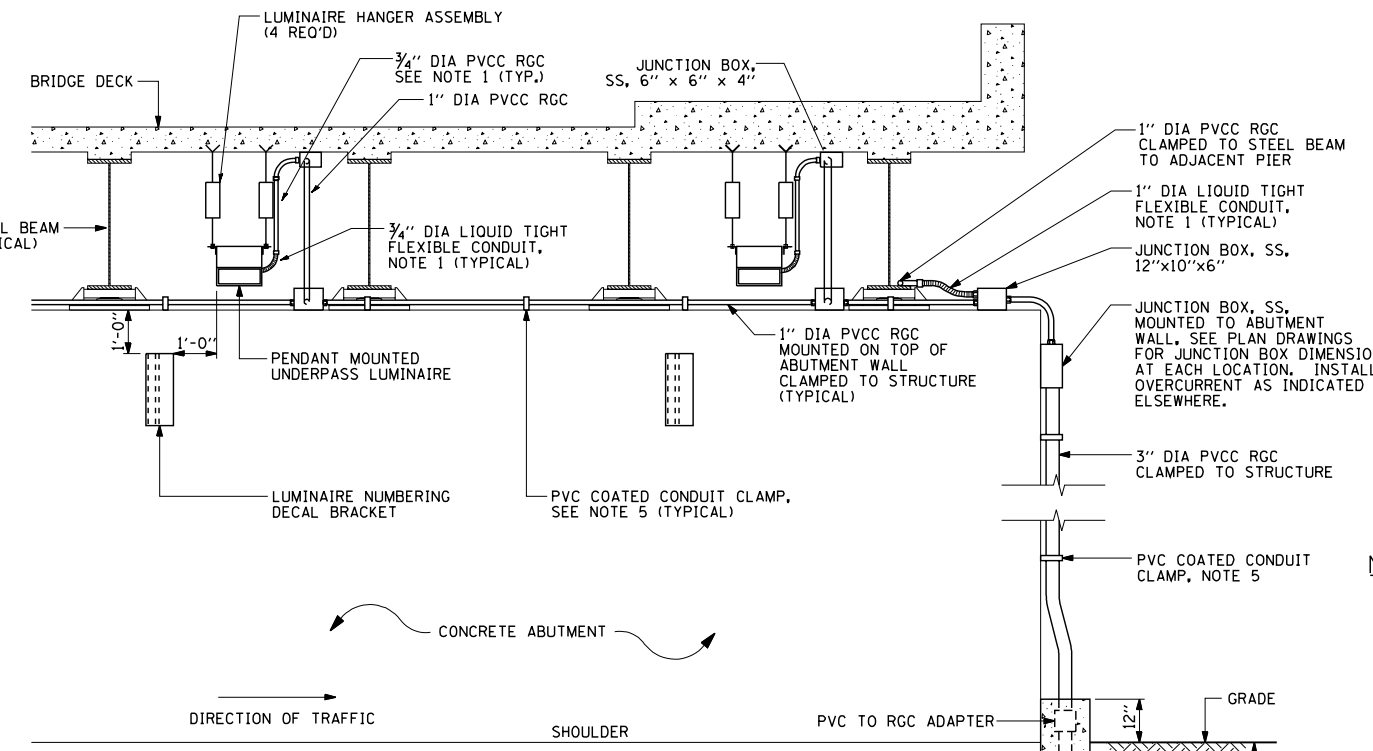
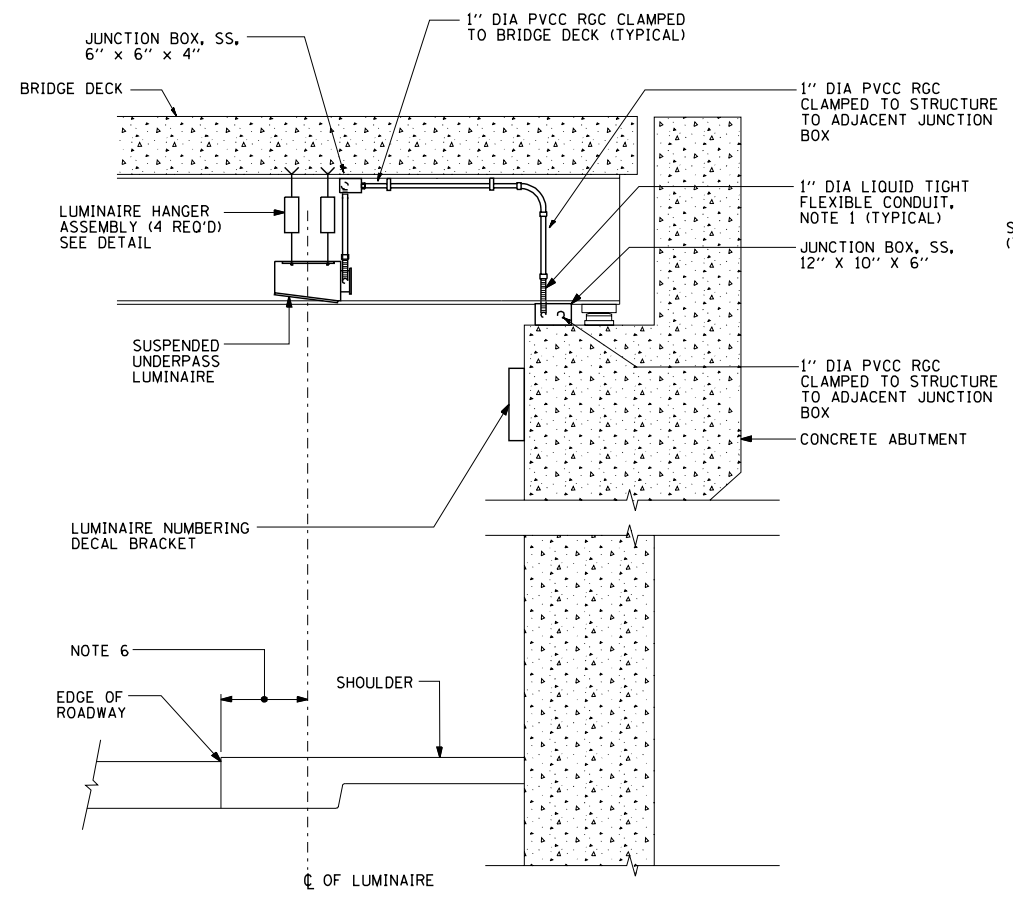
MISCELLANEOUS ELECTRICAL DETAILS, SHEET B			
J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 211
BE-703		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

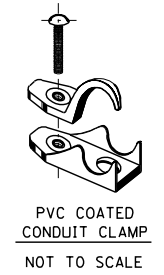
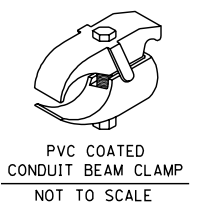
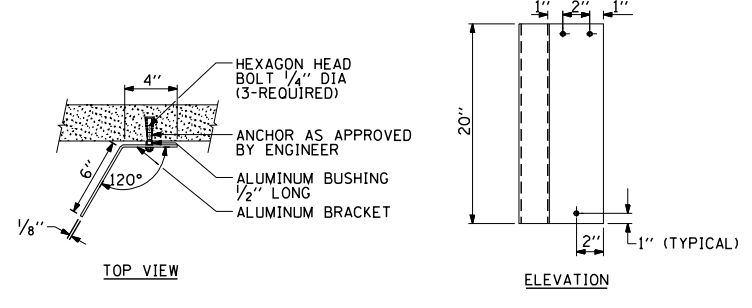
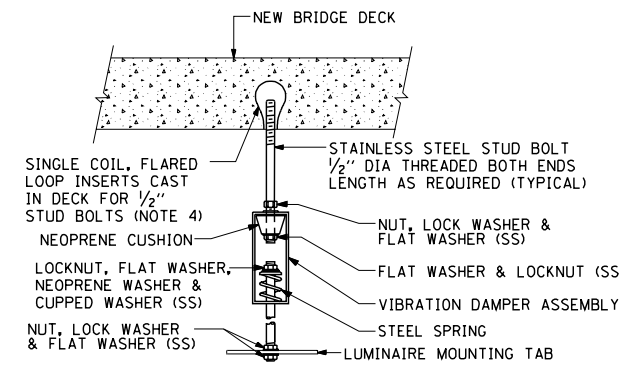
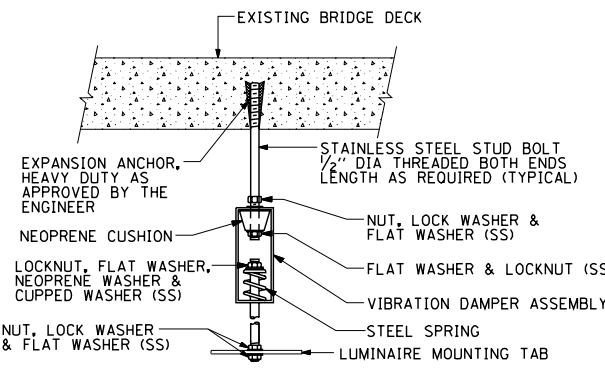


- NOTES:**
1. BOX SHALL HAVE AN OPEN BASE.
 2. COVER SHALL WITHSTAND A 22,500/33,750 DESIGN/TEST LOADING AND SHALL LOCK.
 3. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
 5. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

FILE NAME =	USER NAME = leysa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMMUNICATIONS VAULT, COMPOSITE CONCRETE				F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pwork\pwidot\LEYSAd0108315\be705.dgn		DRAWN -	REVISED -		90/94/290	2013-077R	COOK	317	212				
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -			BE-705				CONTRACT NO. 60X61				
PLOT DATE = 3/29/2010	DATE - 03-22-10	REVISED -			SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN, PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS.
 - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

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USER NAME = gaglanobt
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 PLOT DATE = 1/4/2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

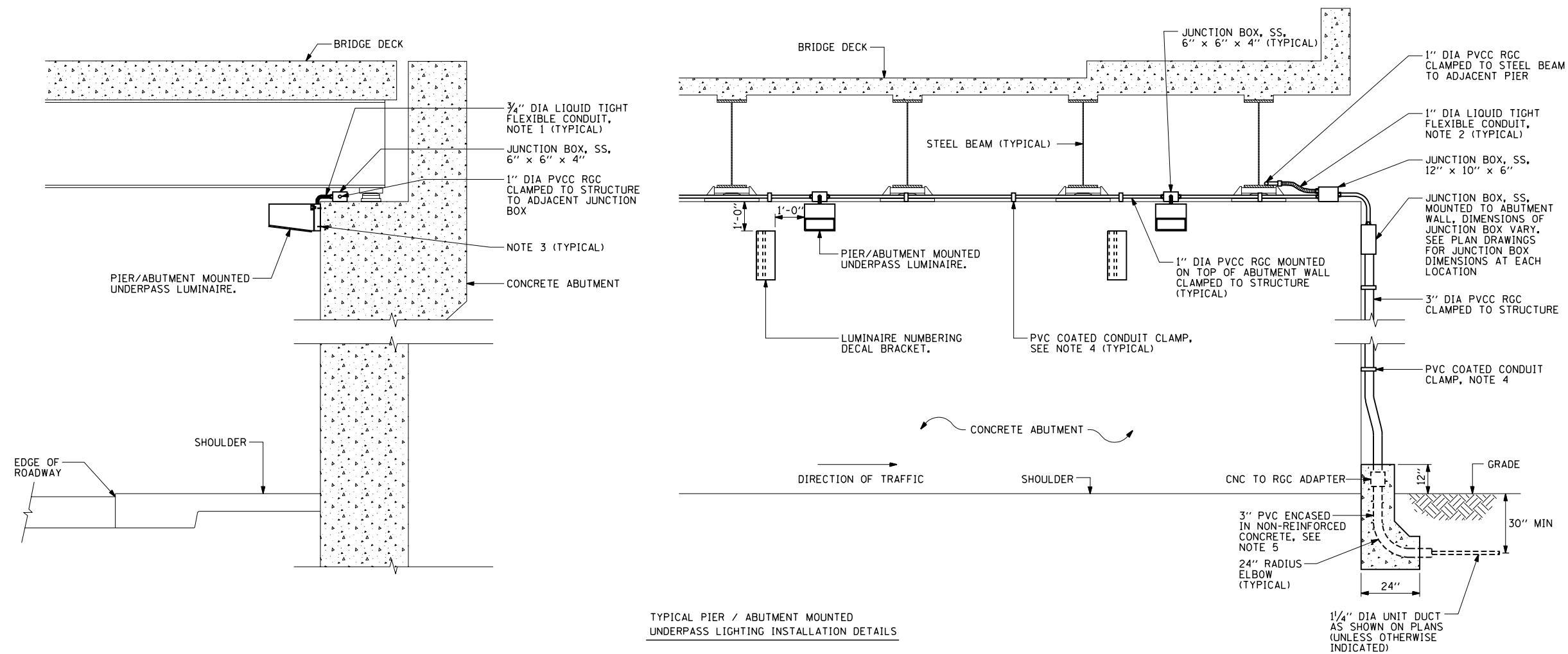
REVISED - 12-12-05
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

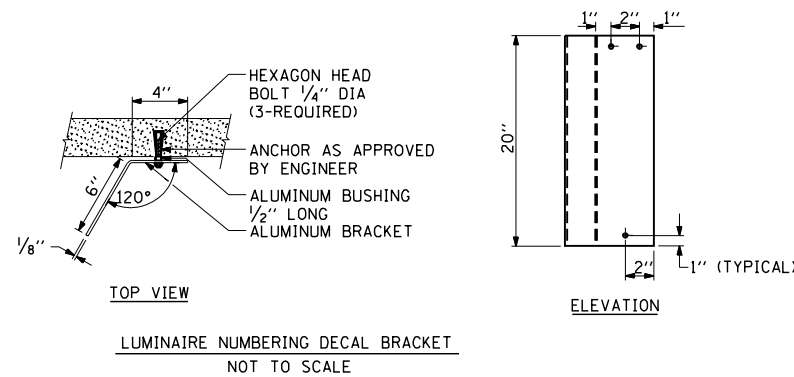
**SUSPENDED MOUNT UNDERPASS
 LUMINAIRE INSTALLATION DETAILS**

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

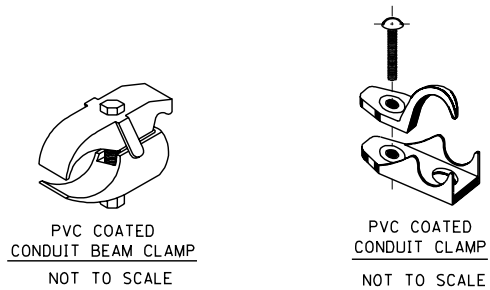
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	213
BE-900		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL PIER / ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS



LUMINAIRE NUMBERING DECAL BRACKET NOT TO SCALE



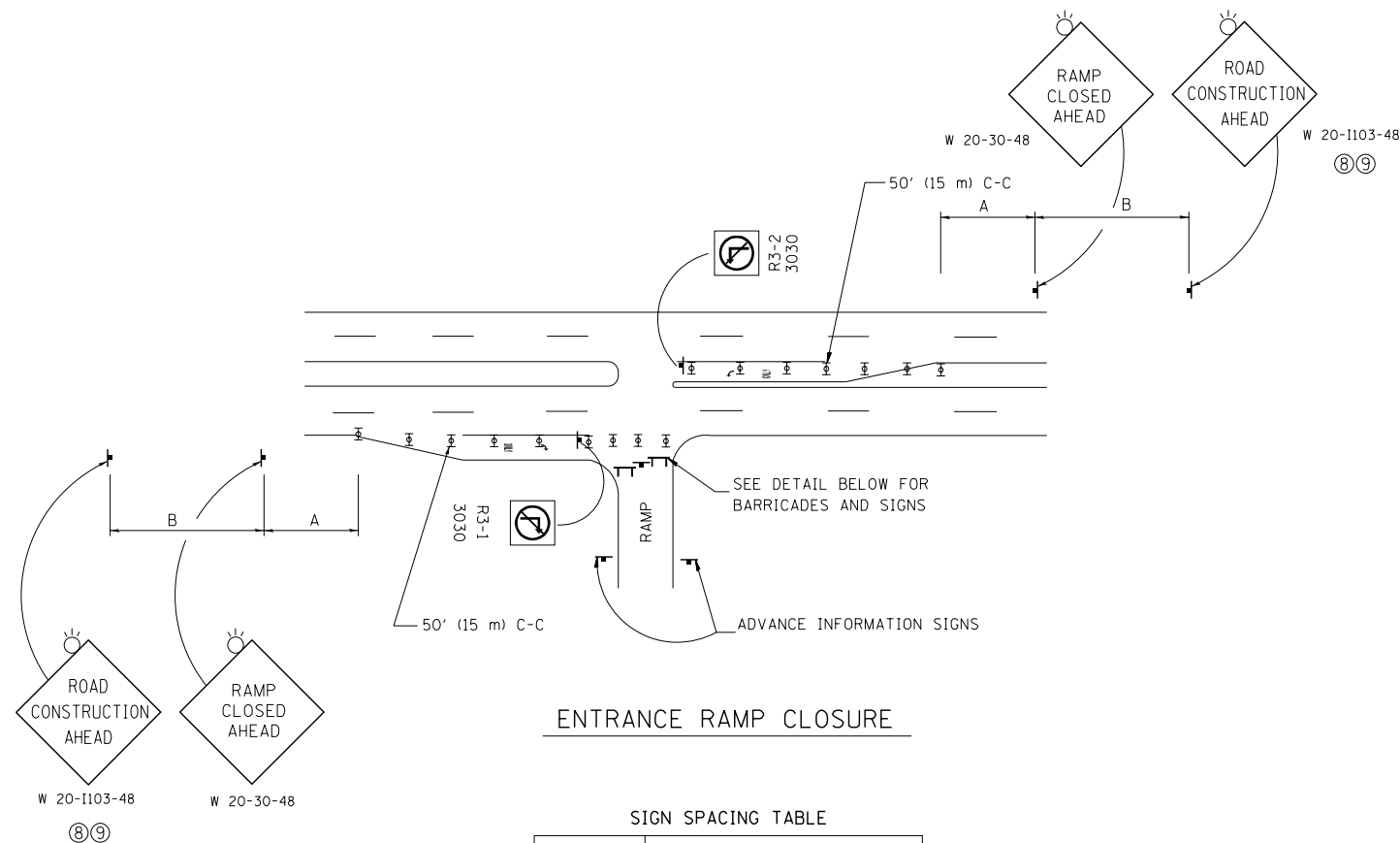
PVC COATED CONDUIT BEAM CLAMP NOT TO SCALE

PVC COATED CONDUIT CLAMP NOT TO SCALE

NOTES:

- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE 3/4" DIA. RIGID STEEL CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
- UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

FILE NAME = W:\diststd\22x34\be902.dgn	USER NAME = gaglianob	DESIGNED - DRAWN -	REVISED - 01-25-05 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER /ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS			F.A. RTE. 90194/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 214
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-902		CONTRACT NO. 60X61	
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

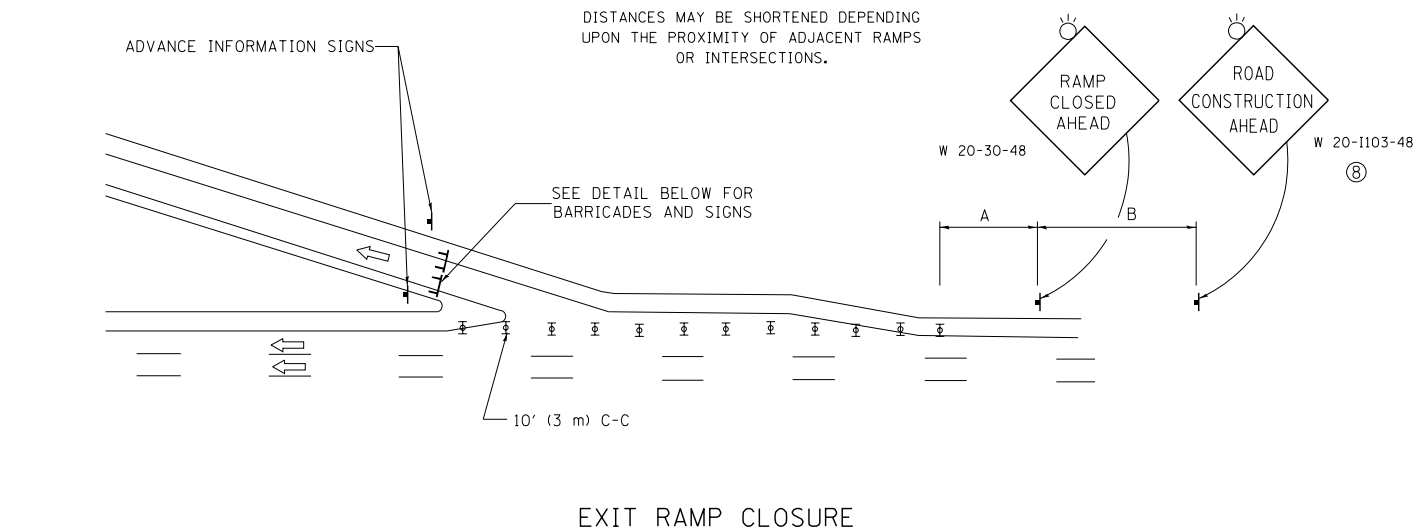


ENTRANCE RAMP CLOSURE

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)

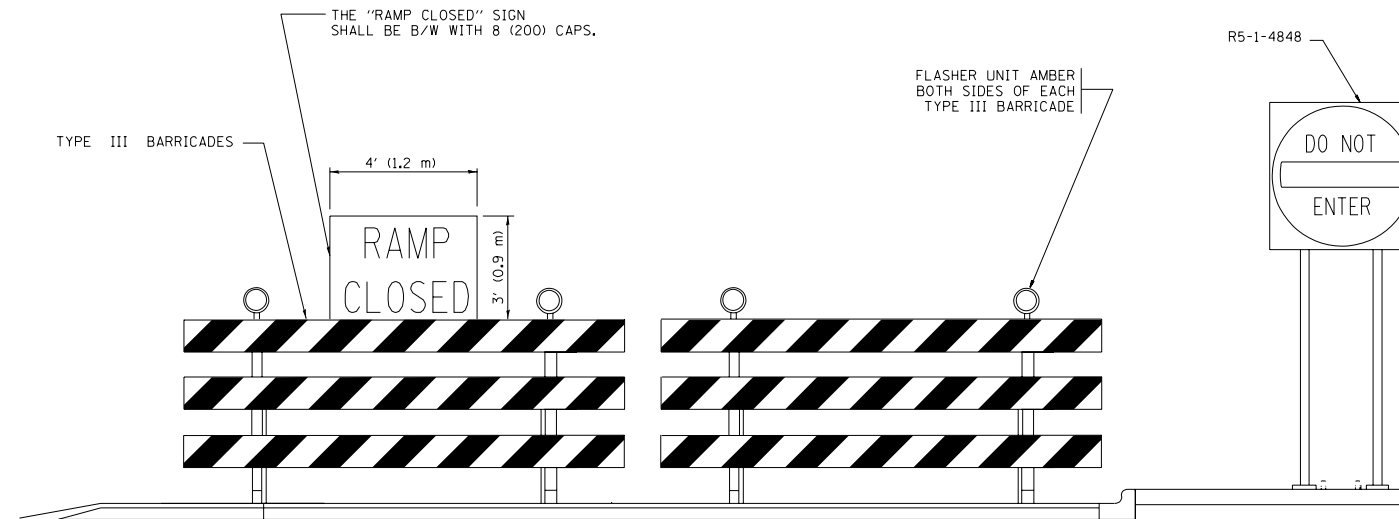
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

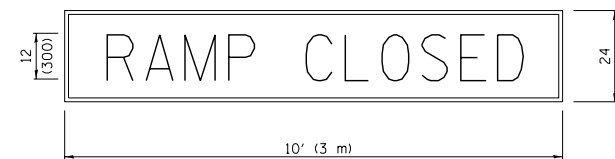
SYMBOLS

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

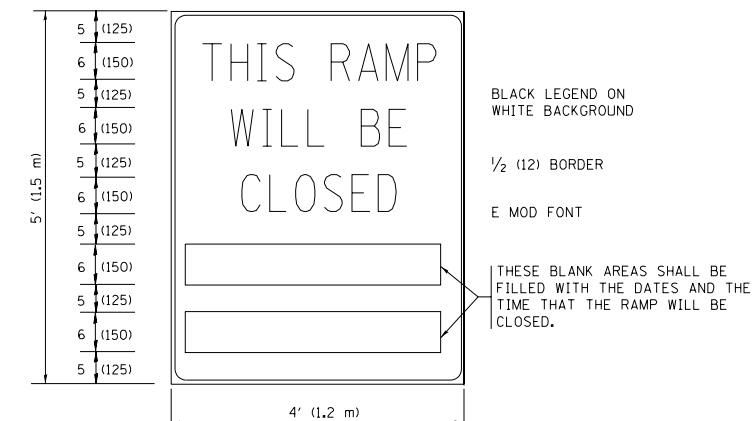
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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.

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	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13

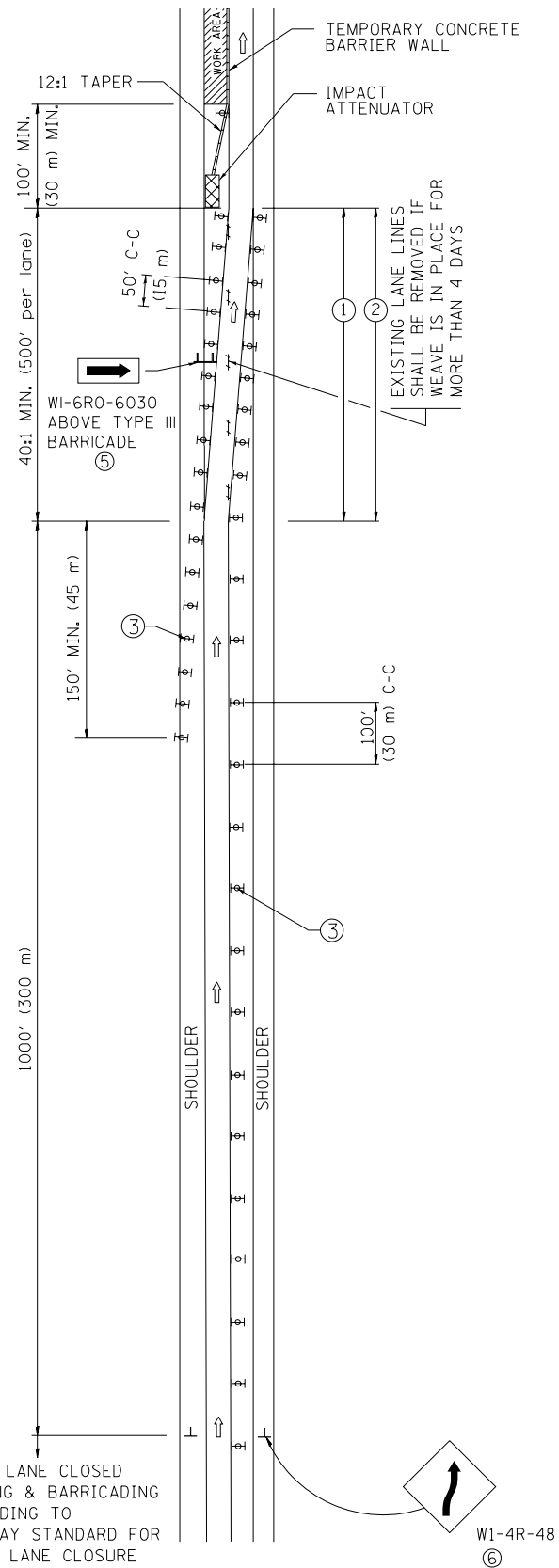
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

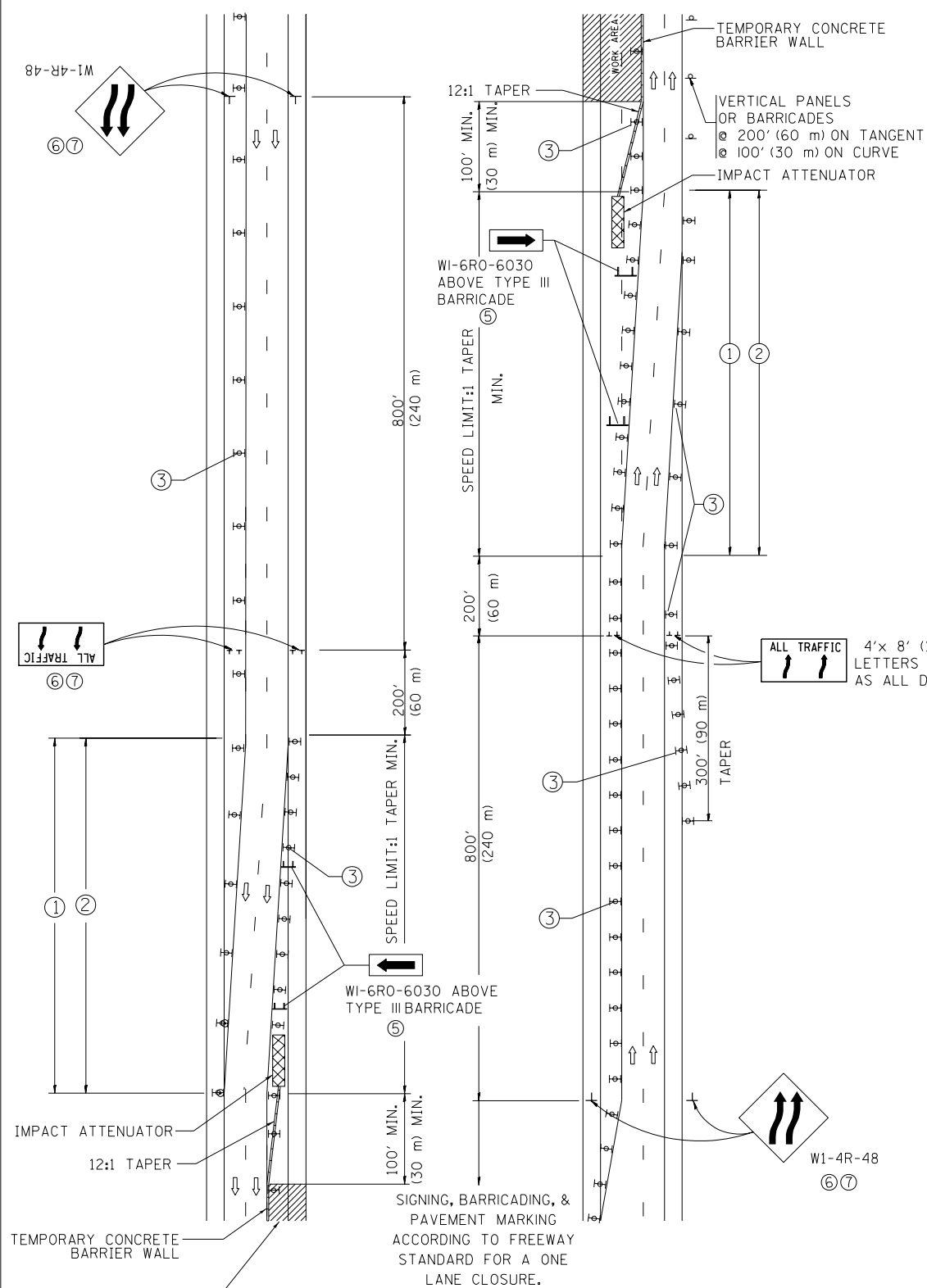
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 215
TC-08		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

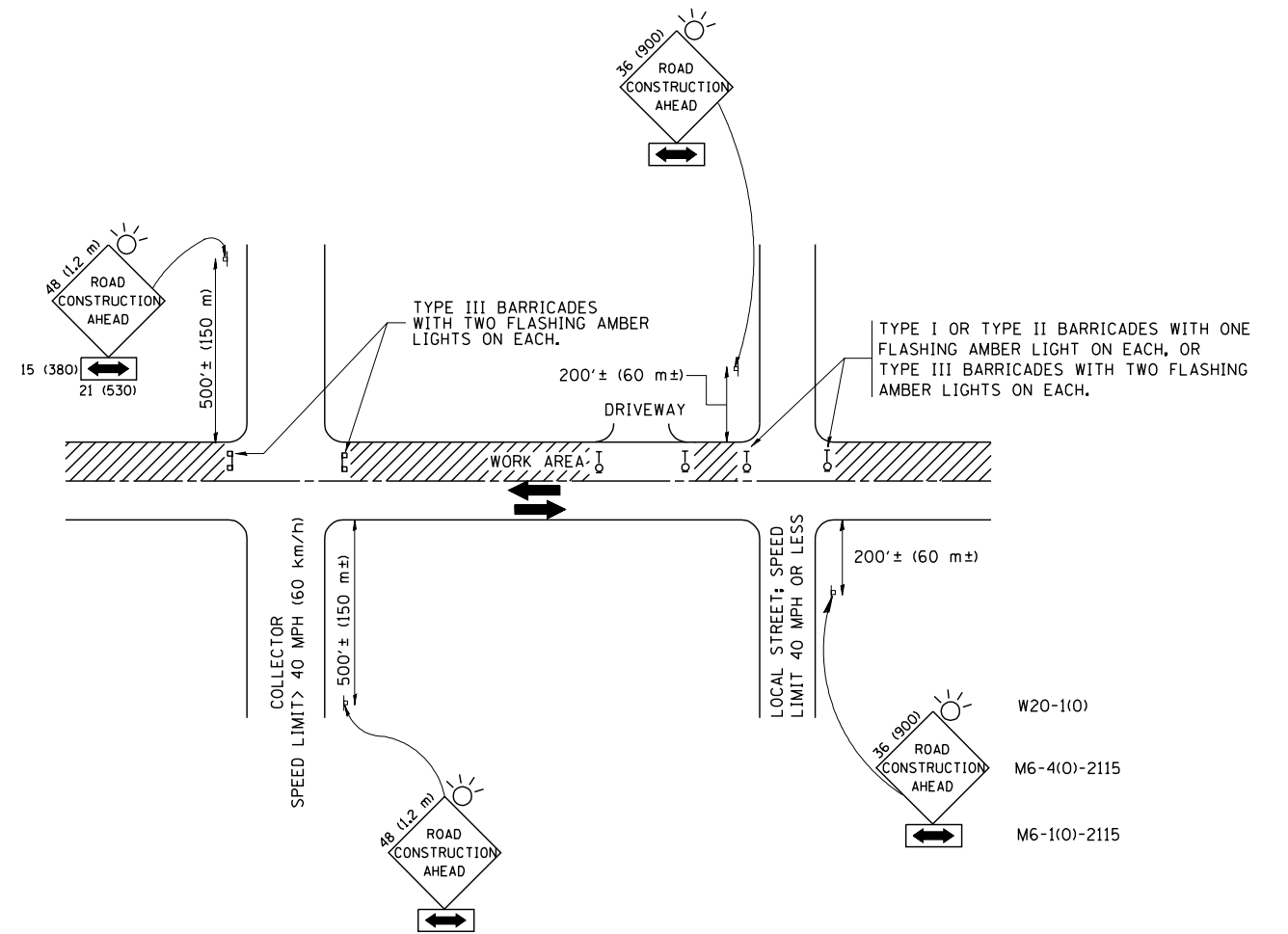
SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ┆ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊞ TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- ▬ TEMPORARY CONCRETE BARRIER WALL
- ⊞ IMPACT ATTENUATOR
- ⬠ W1-4R-48 (6)
- ⬠ W24-1-48 (7)

4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\pwork\footemj\d0108315\tc09.dgn		DRAWN -	REVISED - SPB 01-07			90/94/290	2013-077R	COOK	317	216	
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - SPB 12-09			TC-09		CONTRACT NO. 60X61			
	PLOT DATE = 7/1/2013	DATE - 02-87	REVISED - MD 06-13			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



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.

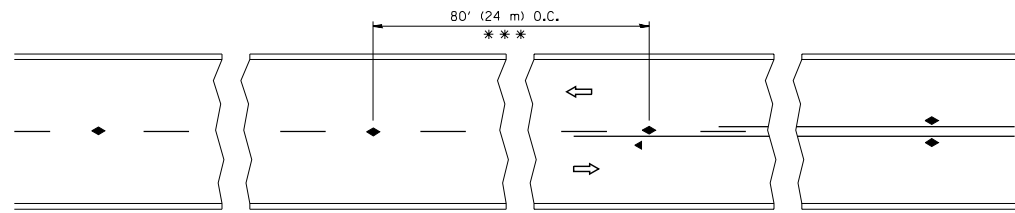
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

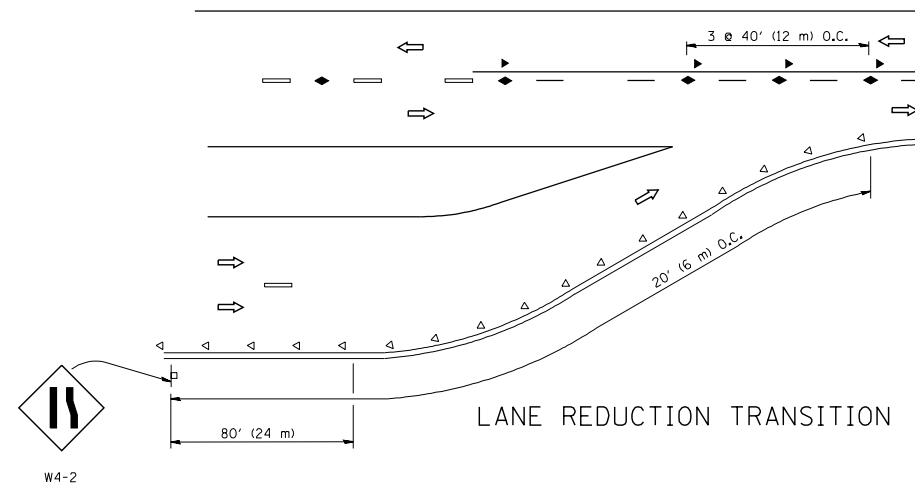
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 217
TC-10			CONTRACT NO. 60X61	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

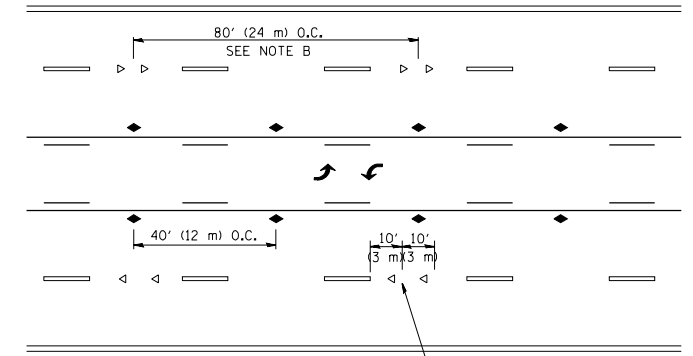


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

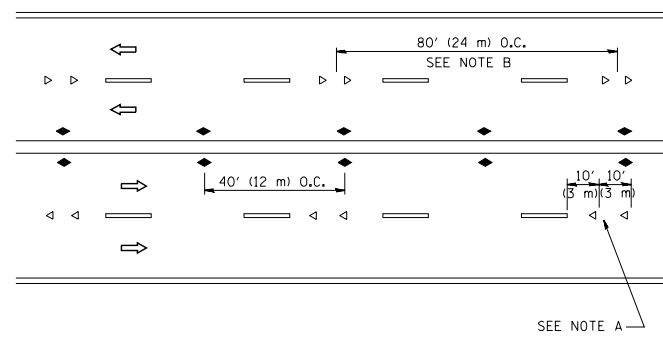
TWO-LANE/TWO-WAY



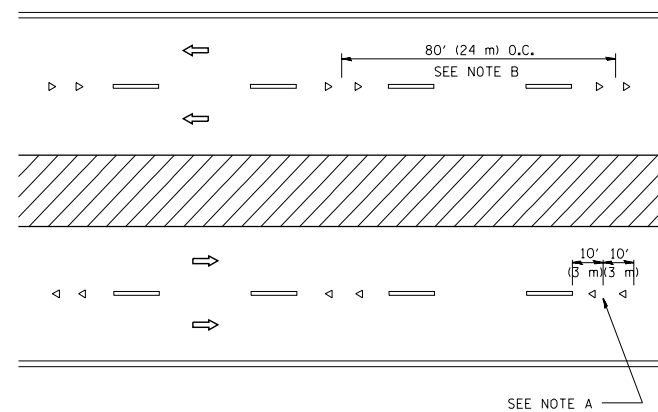
LANE REDUCTION TRANSITION



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

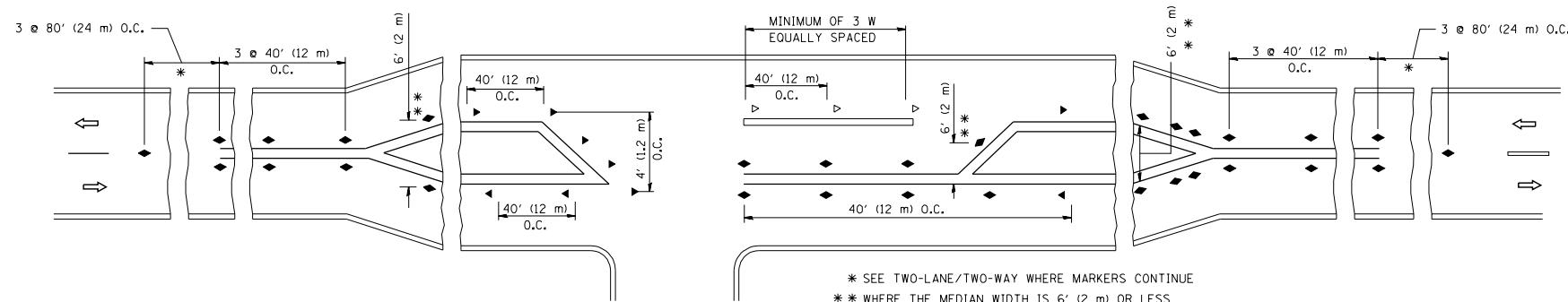
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



LEFT TURN

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

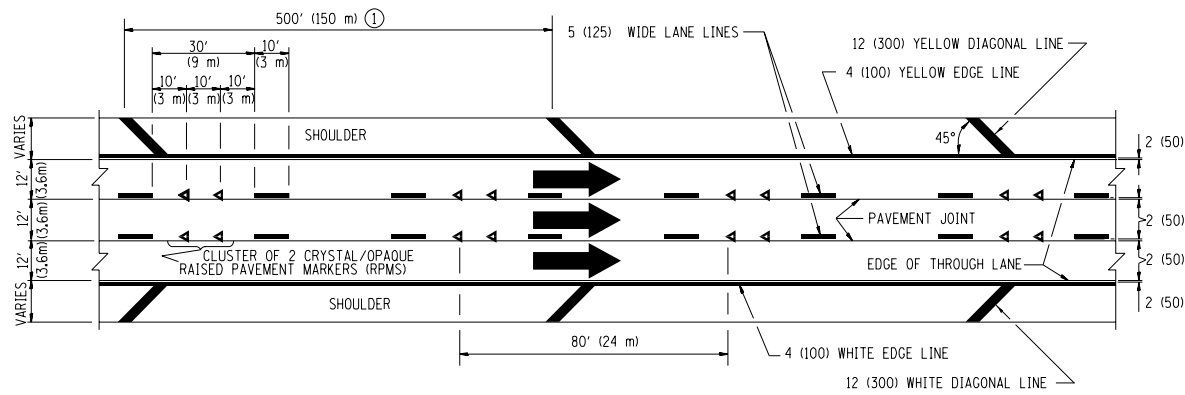
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

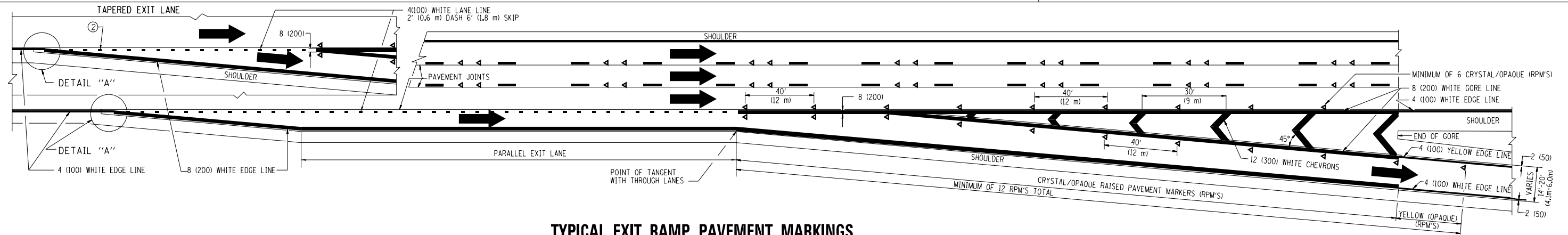
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	218
TC-11		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



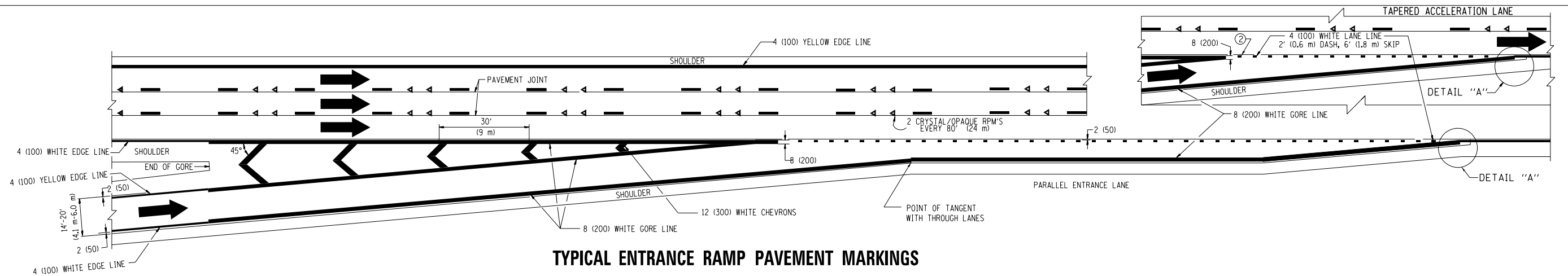
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

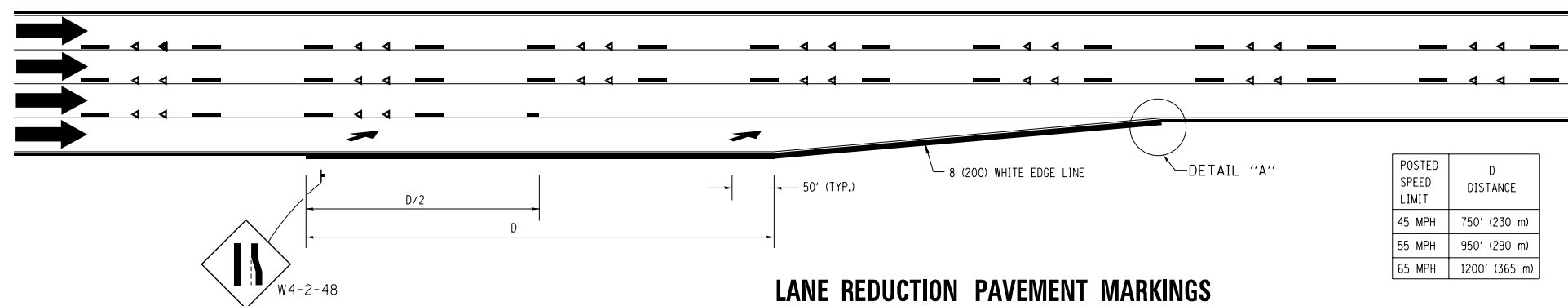
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE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



TYPICAL EXIT RAMP PAVEMENT MARKINGS

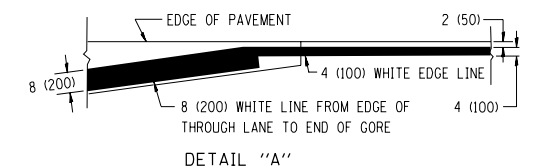


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



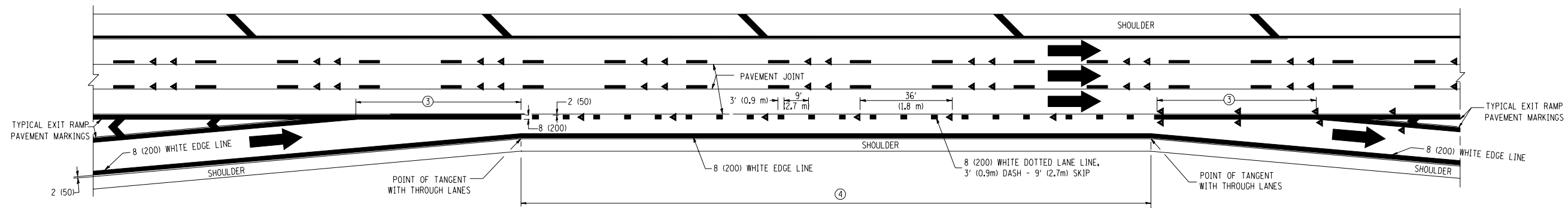
LANE REDUCTION PAVEMENT MARKINGS

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

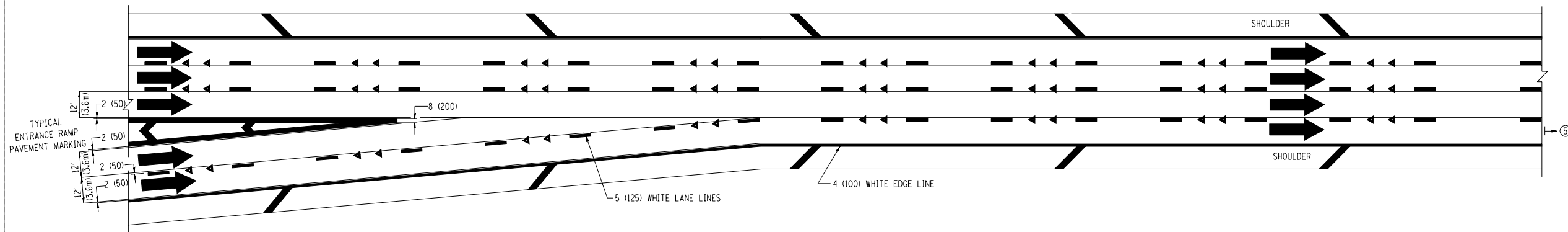


NOTES:

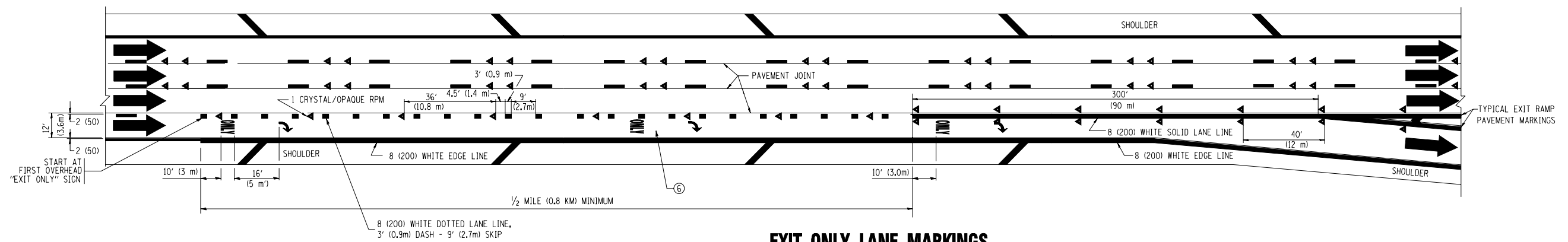
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT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



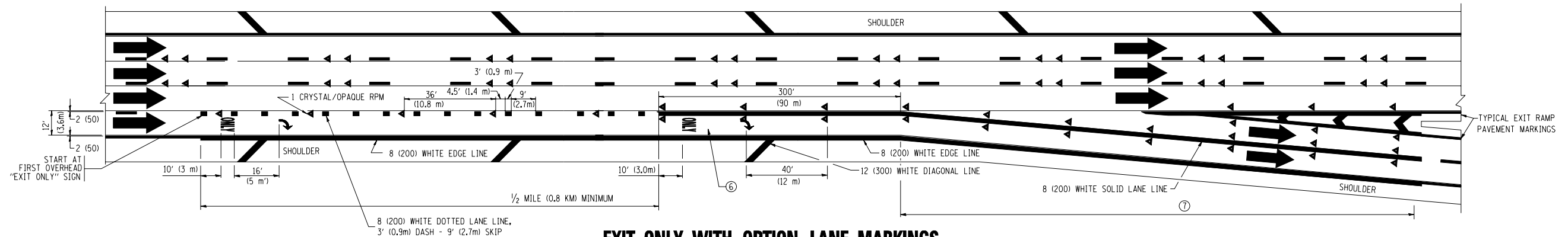
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

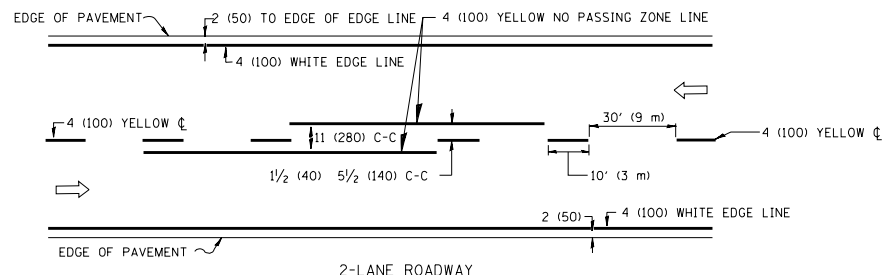
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND 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 = l1eyso	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
et\pw_work\PWIDOT\LEISA\d0108315\c12.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

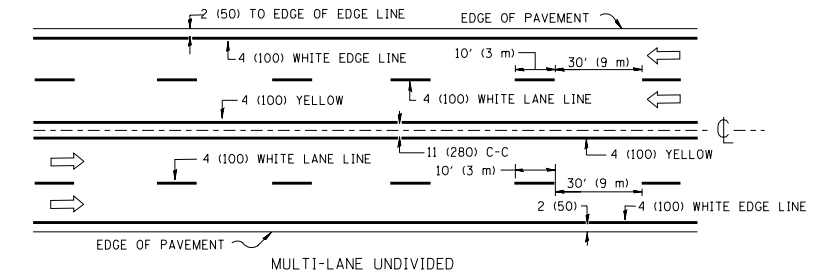
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

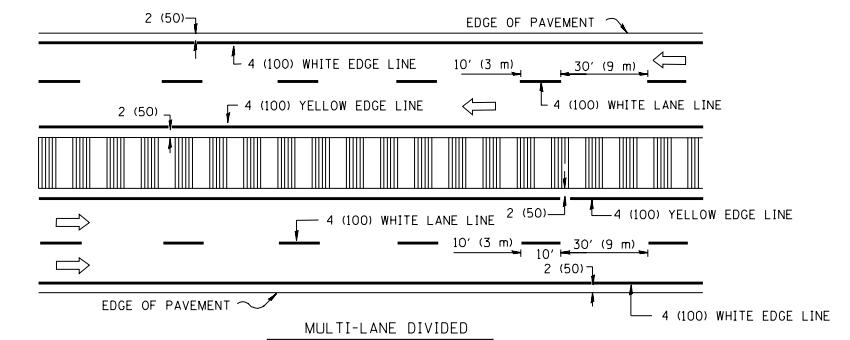
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	220
TC-12		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY



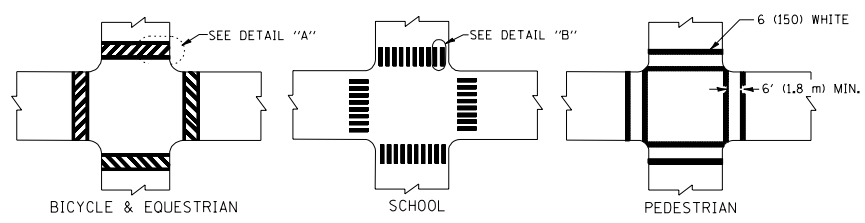
MULTI-LANE UNDIVIDED



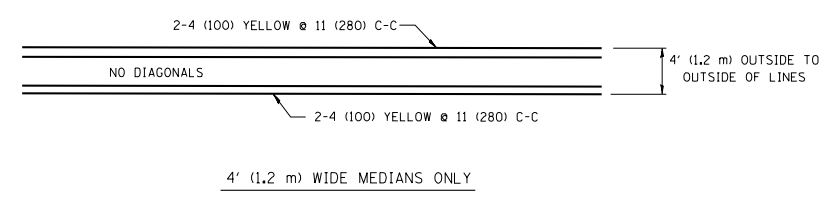
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

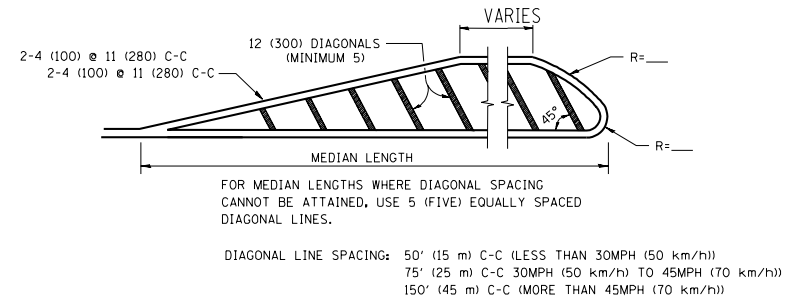
TYPICAL LANE AND EDGE LINE MARKING



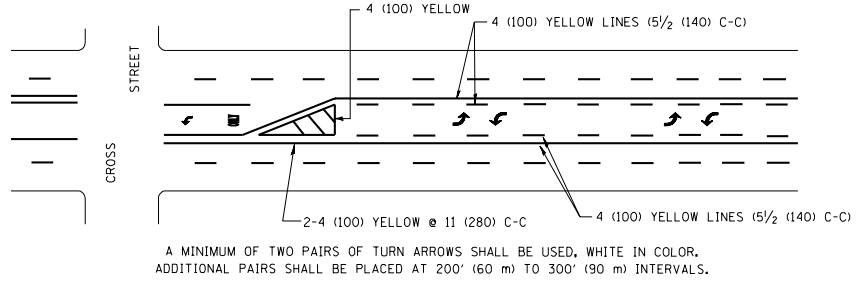
TYPICAL CROSSWALK MARKING



4' (1.2 m) WIDE MEDIANS ONLY



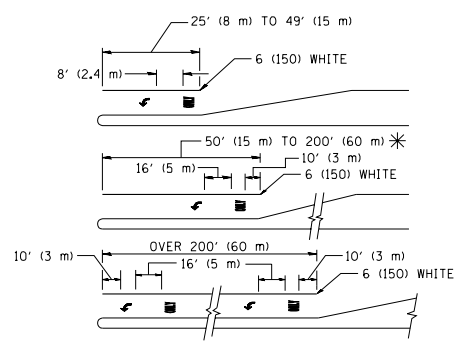
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

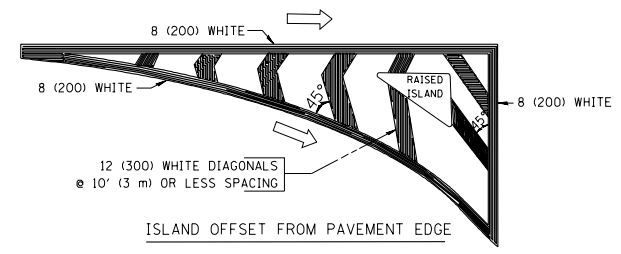


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

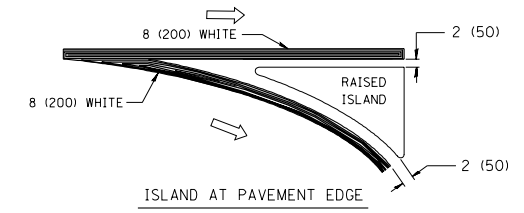
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE AREA OF: "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

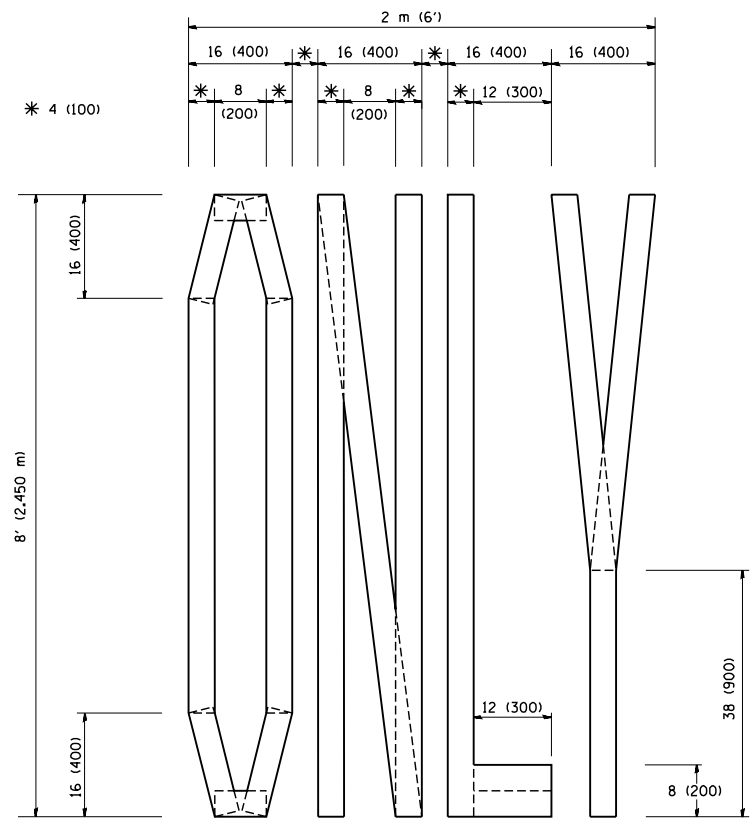
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

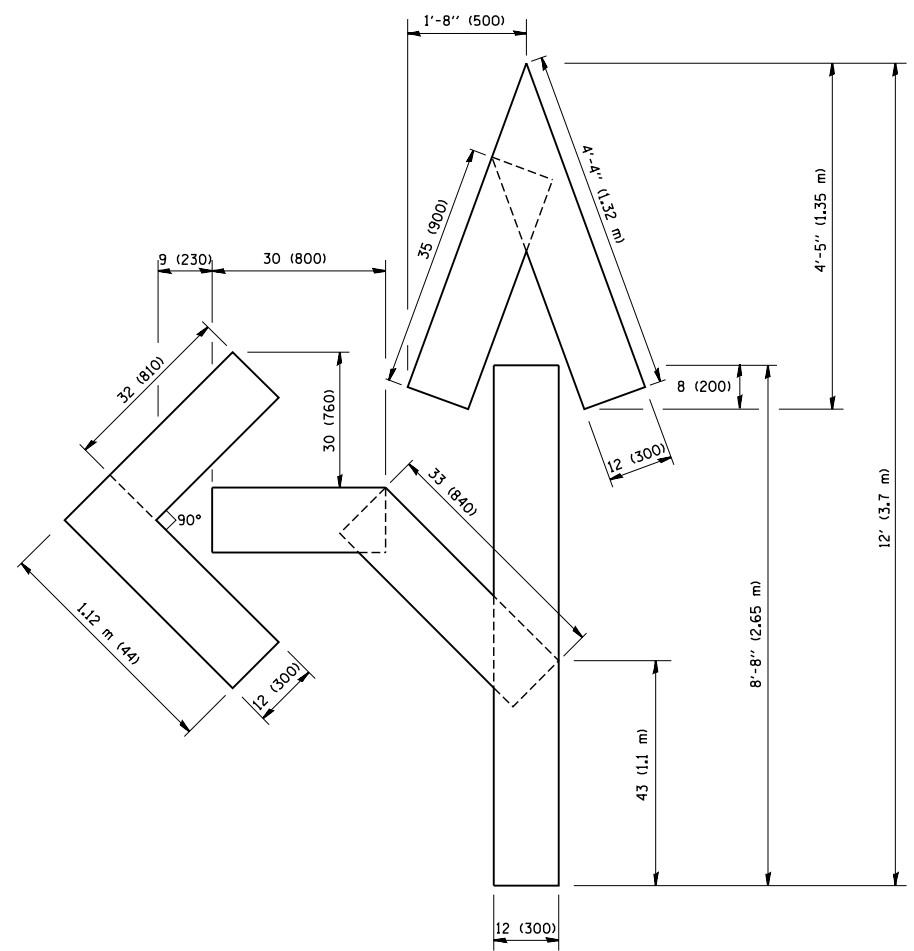
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	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

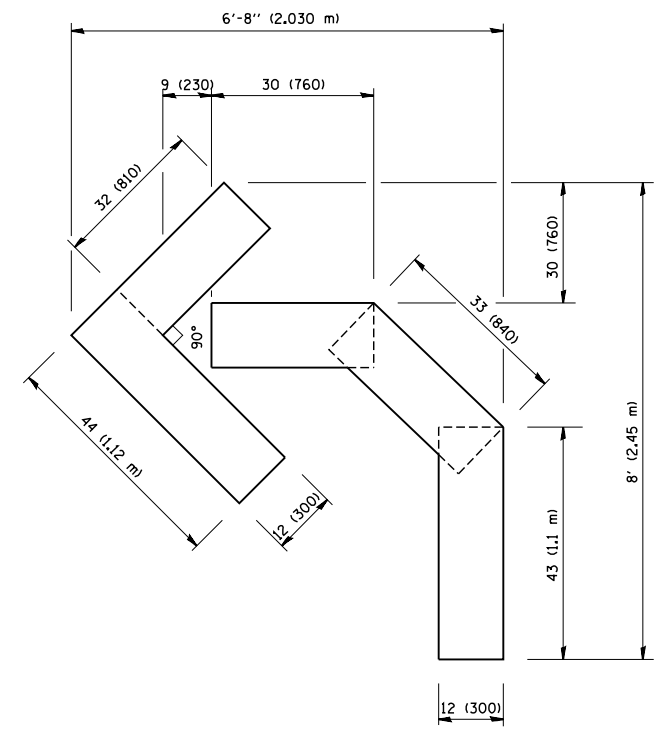
DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		90/94/290	2013-077R	COOK	317	221
SCALE: NONE		TC-13		CONTRACT NO. 60X61		
SHEET NO. 1 OF 1 SHEETS		STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = W:\diststd\22x34\tc16.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

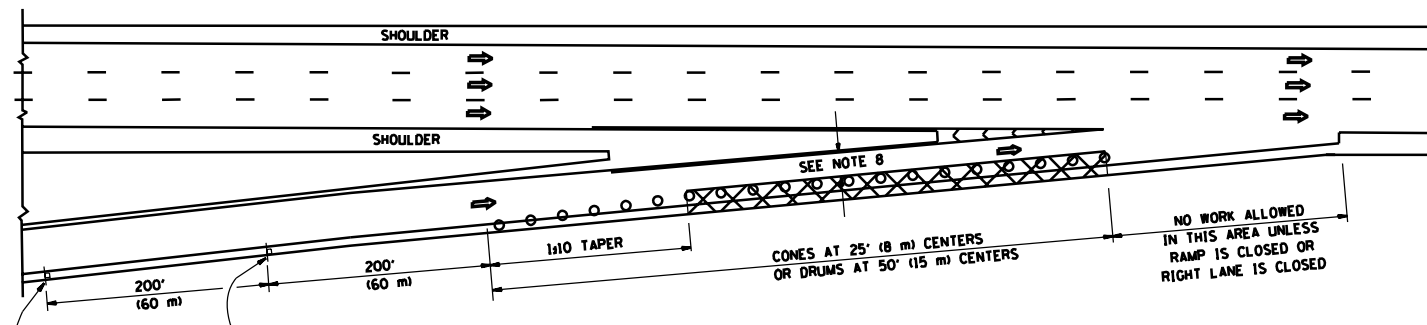
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

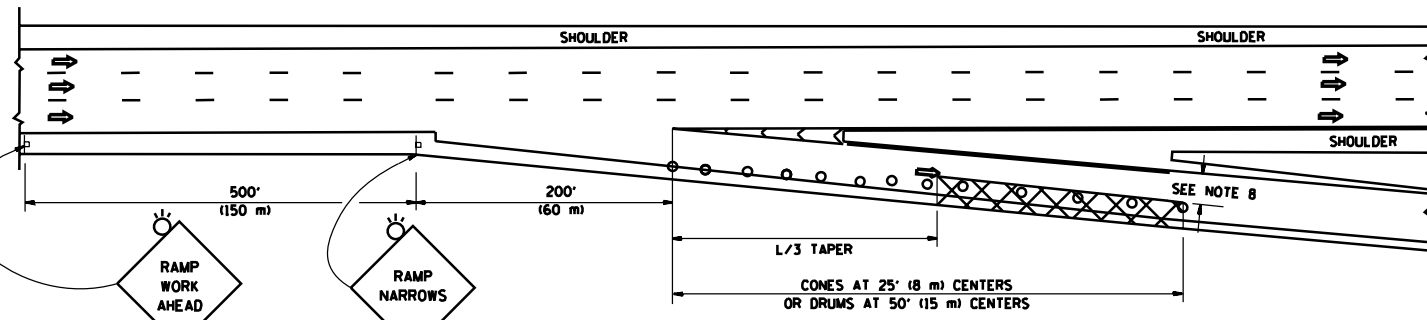
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	222
TC-16		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

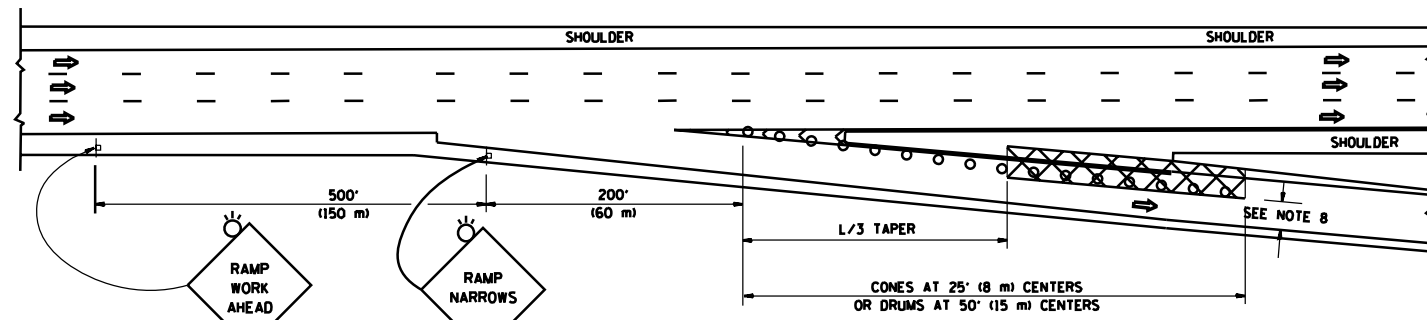
SHOULDER CLOSURE DETAILS



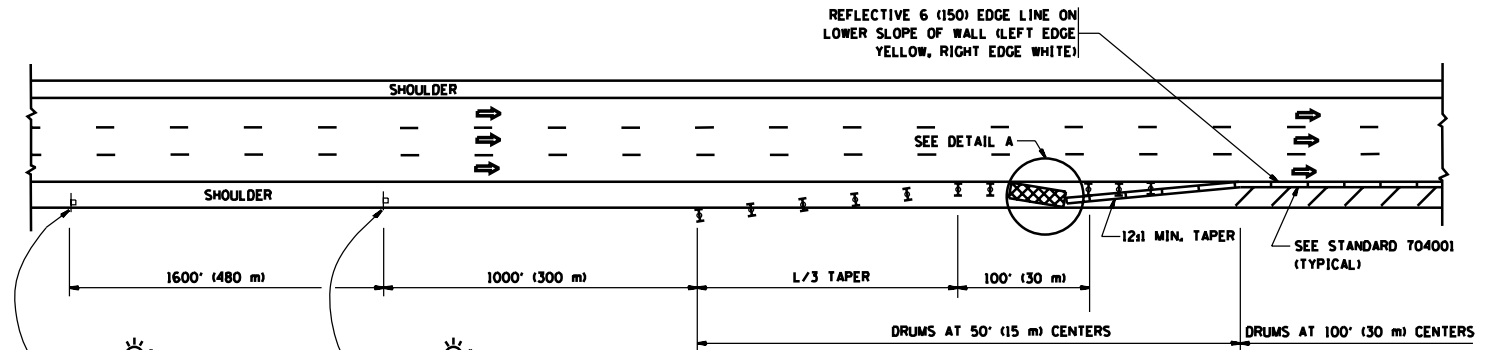
TYPICAL ENTRANCE RAMP



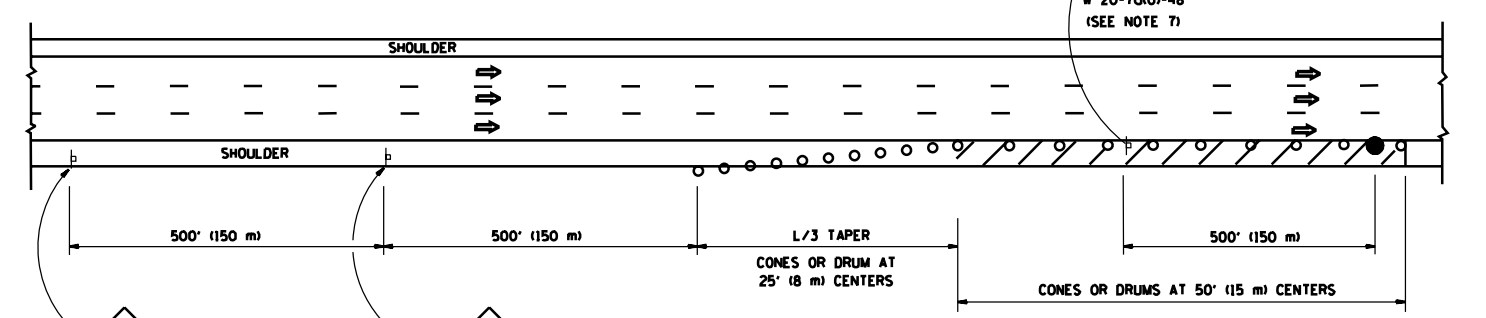
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



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.

SYMBOLS

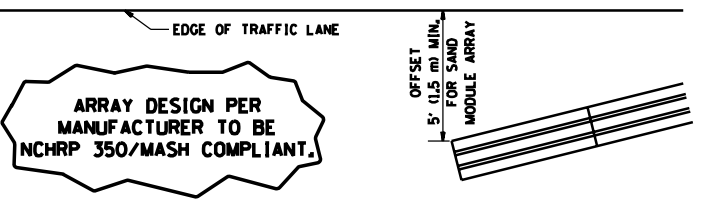
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L = 0.65(WKS)$ $L = (WKS)$
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT 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.



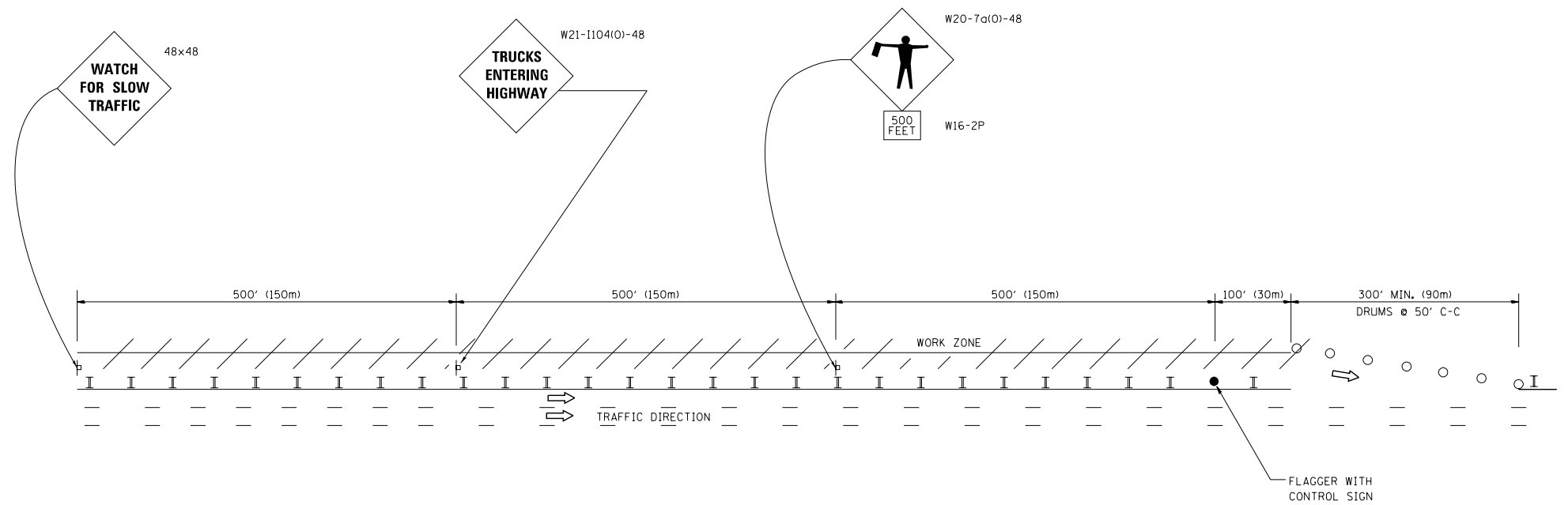
DETAIL "A" IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)

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

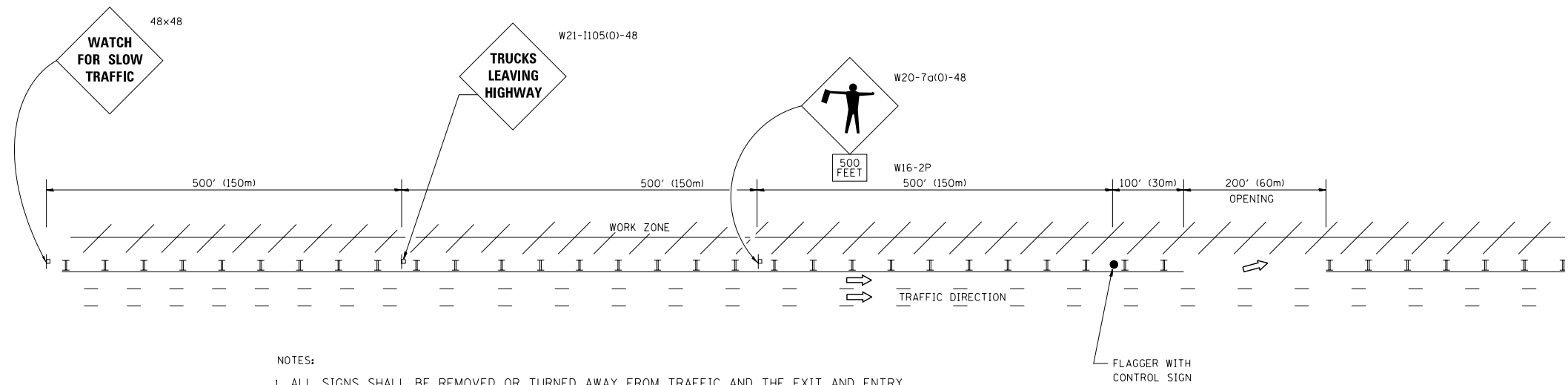
FILE NAME :	USER NAME = leysa	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\work\p\dot\leysa\d0108315\c17.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		90/94/290	2013-077R	COOK	317	223			
		CHECKED -	REVISED - S.P.B. 12-09		TC-17							
		DATE - 11-96	REVISED - M.D. 06-13									
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. 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	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\pwidot\footemj\d0108315\tc18.dgn		DRAWN -	REVISED - S.P.B. 01-07			90/94/290	2013-077R	COOK	317	224
		CHECKED -	REVISED - S.P.B. 12-09			TC-18		CONTRACT NO. 60X61		
		DATE -	REVISED - M.D. 06-13			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

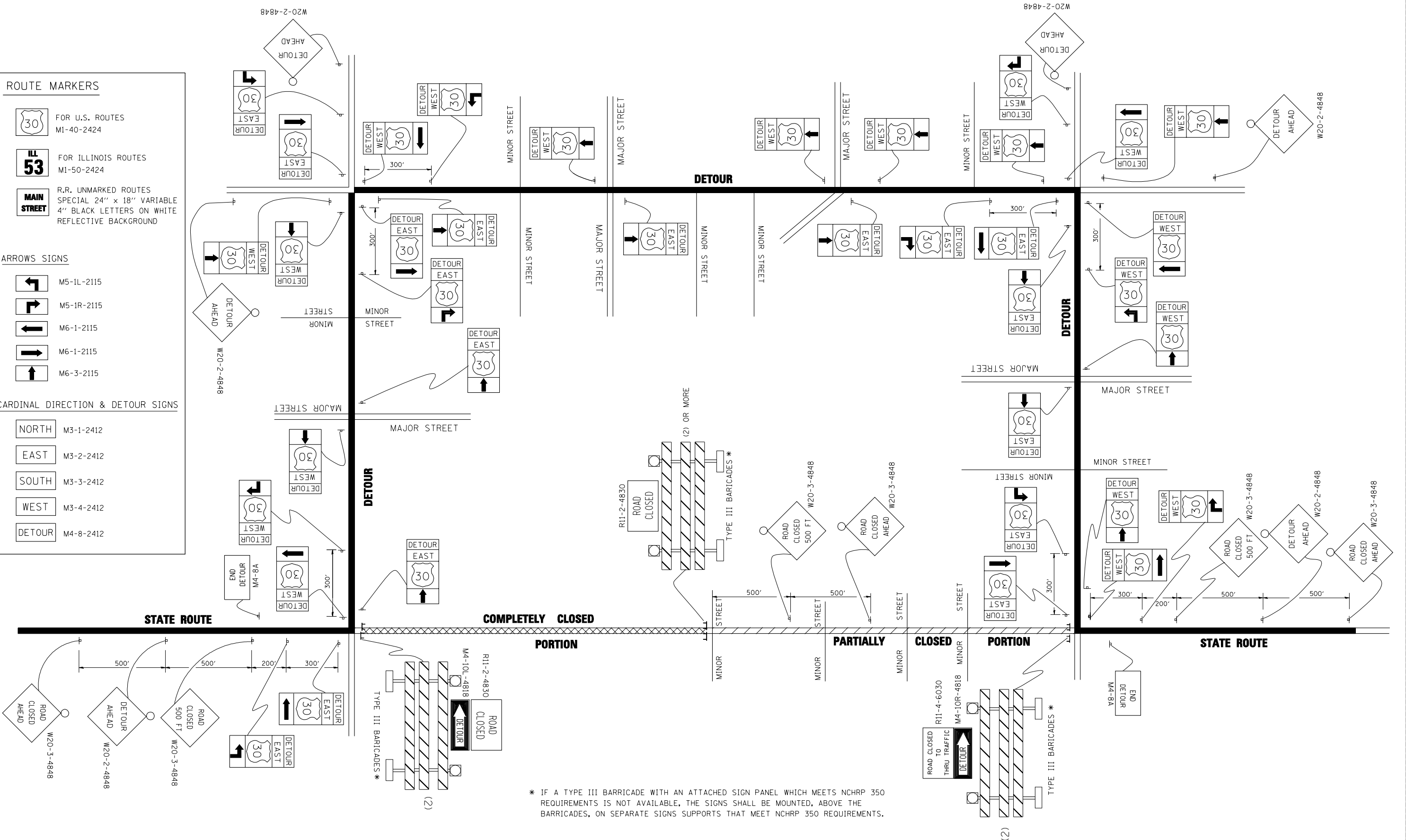
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



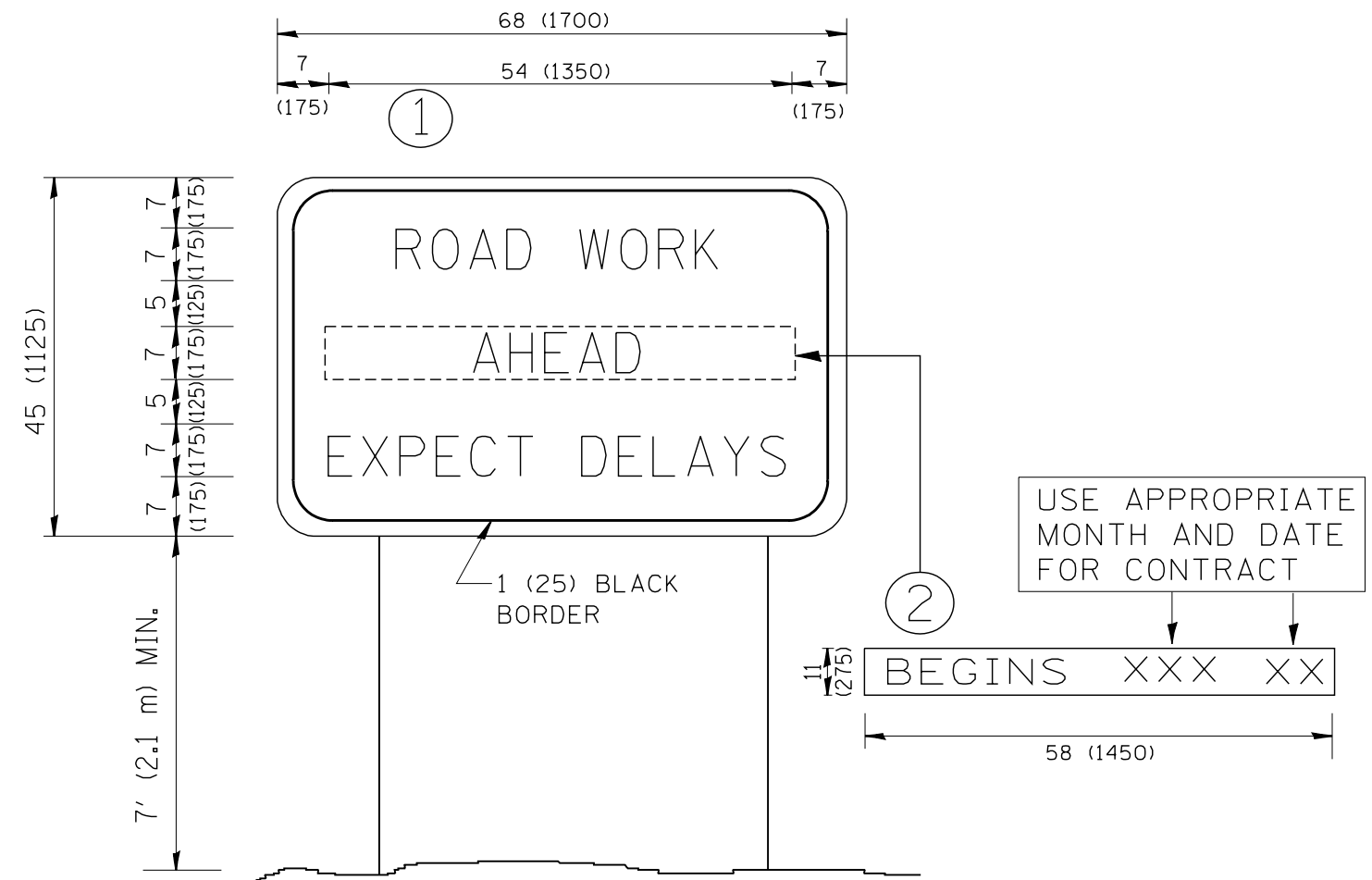
* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
ct:\pw_work\PWIDOT\DRIVAKOSGN\d0108315\421.dgn		DRAWN -	REVISED - R. BORO 09-14-09
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 225
TC-21		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

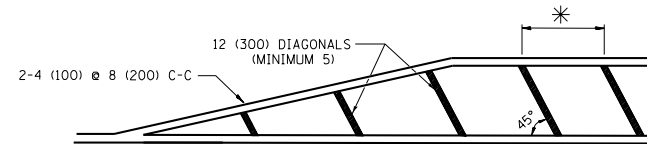
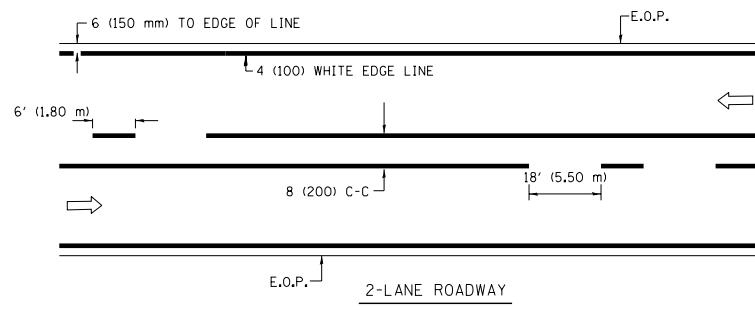
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W:\diststd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

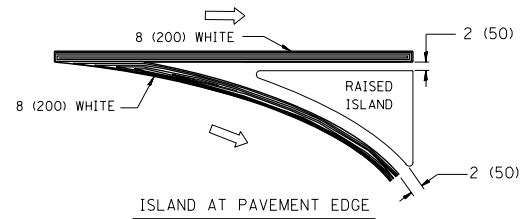
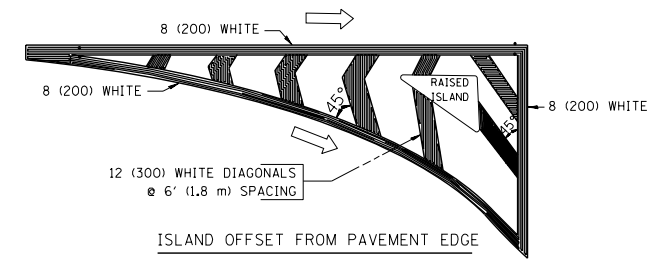
**ARTERIAL ROAD
INFORMATION SIGN**

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

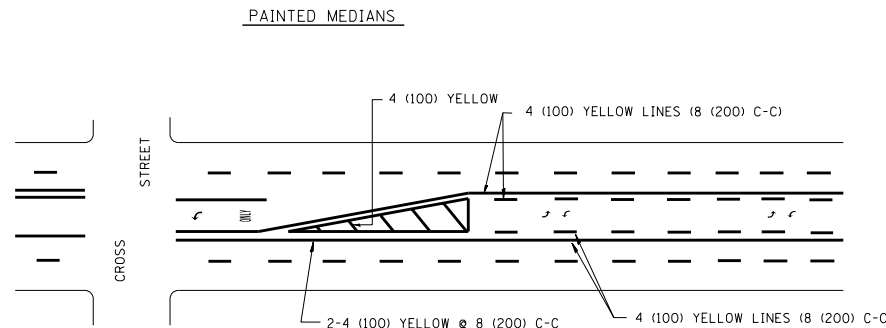
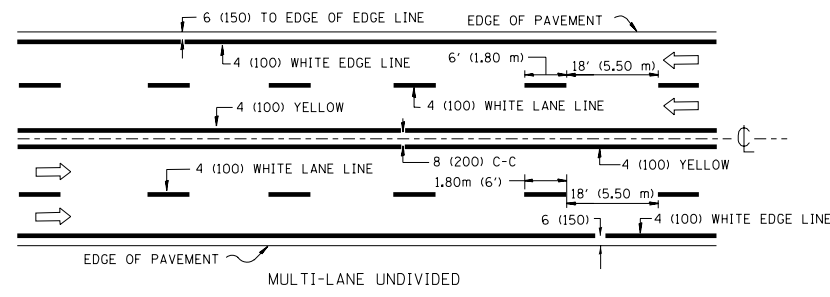
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	226
TC-22		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



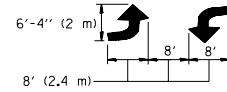
* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 * DIAGONAL LINE SPACING: 20' (6.1 m) C-C



TYPICAL ISLAND MARKING

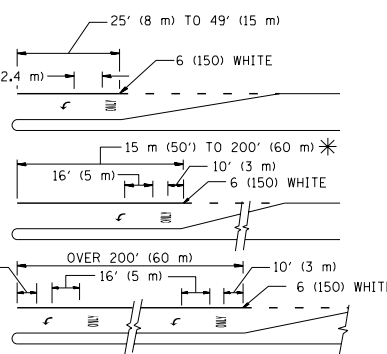
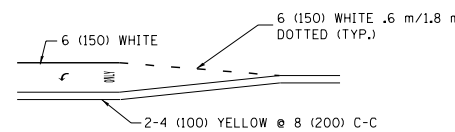
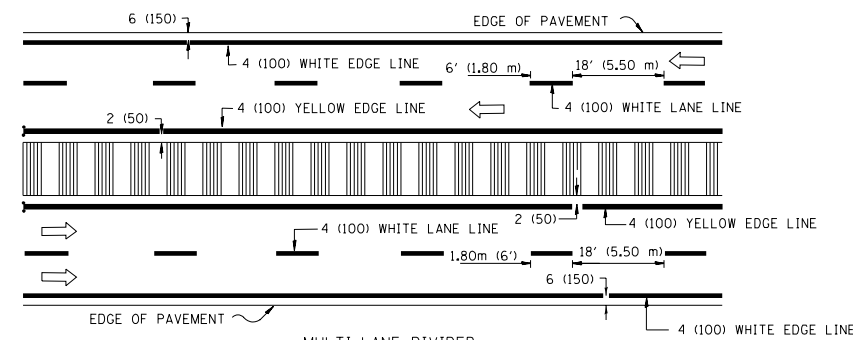


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.8 SQ. FT. (1.47 m²) ONLY AREA = 22.9 SQ. FT. (2.13 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

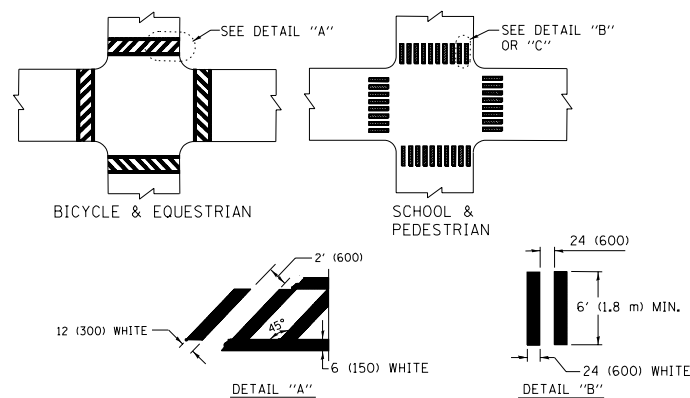
TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)

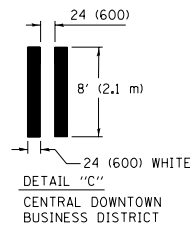
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



DETAIL "C"
CENTRAL DOWNTOWN BUSINESS DISTRICT

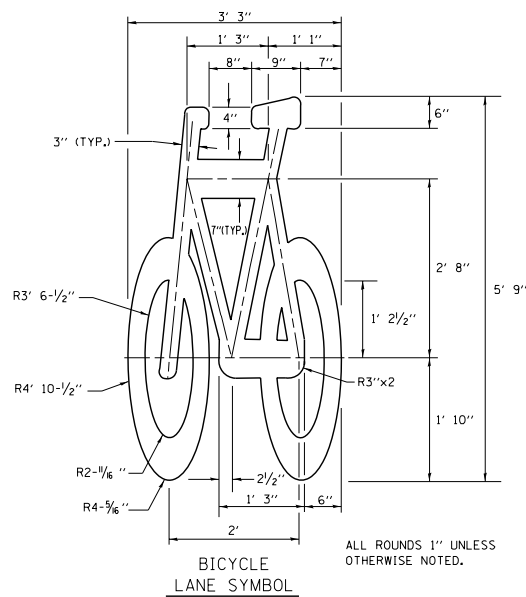
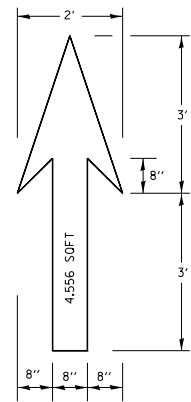
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	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/1/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.

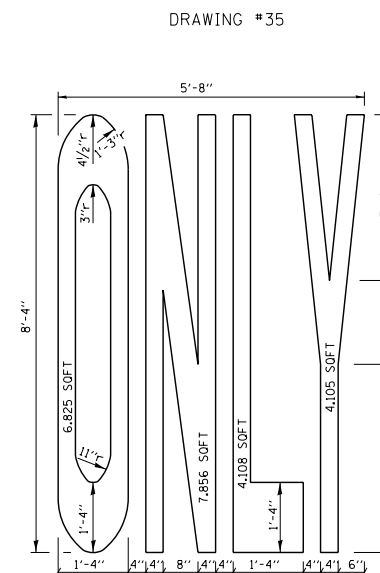
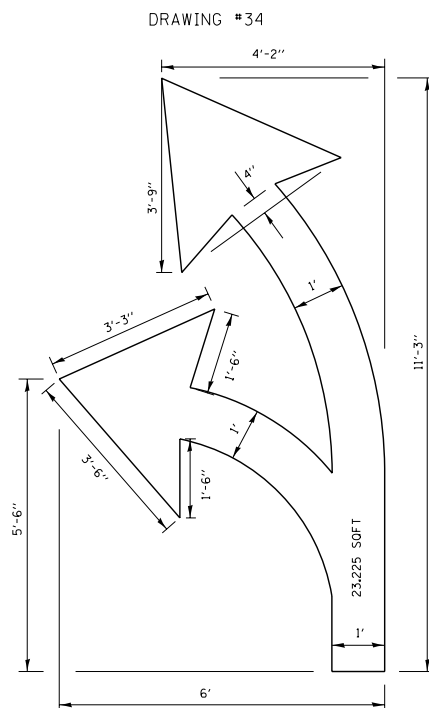
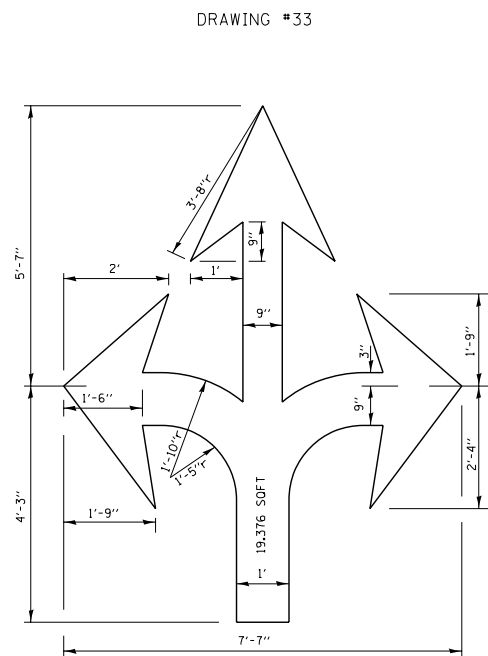
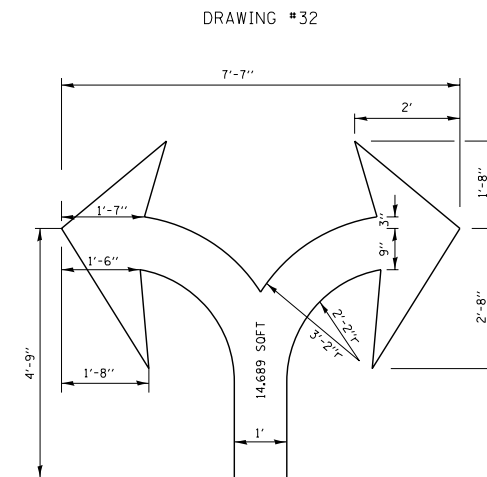
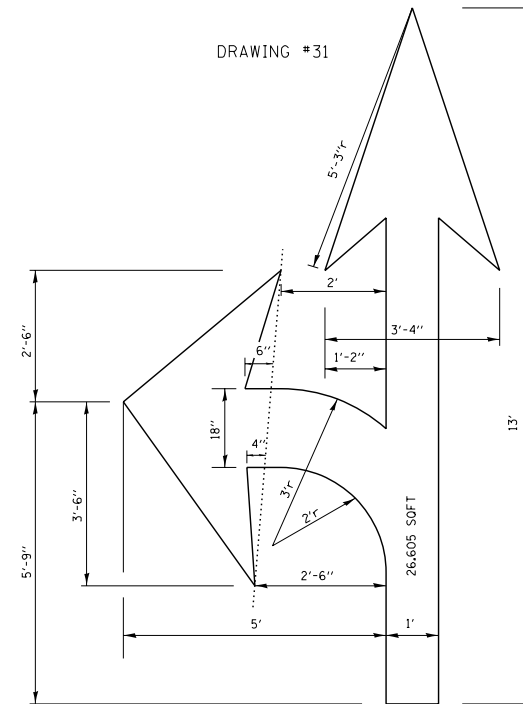
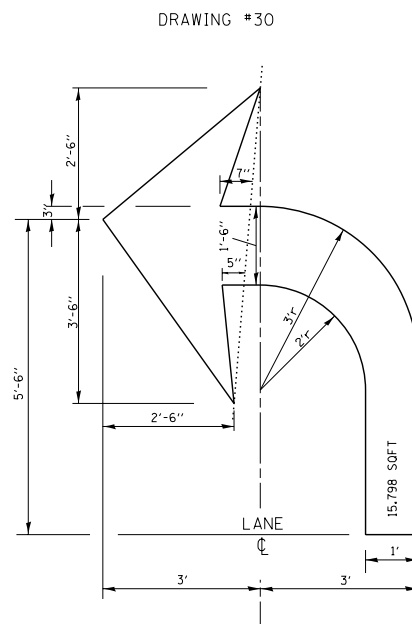
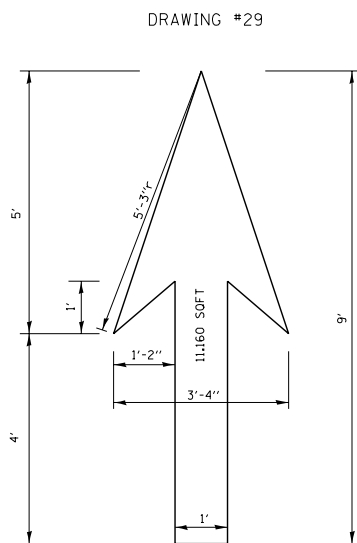
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	227
TC-24		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:

- 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- 2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28



NOTE:
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

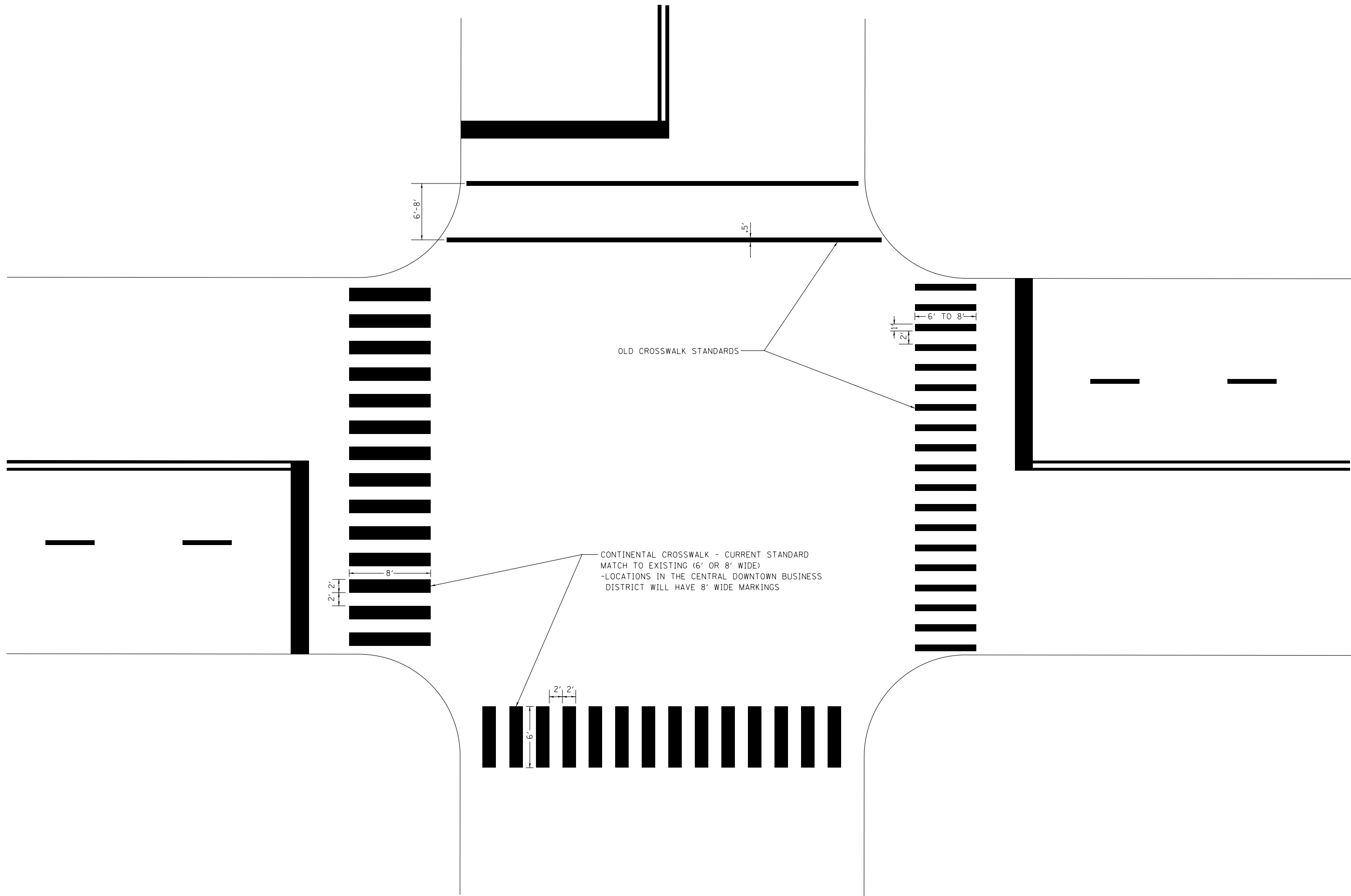
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	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/29/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/04/290	2013-077R	COOK	317	228
TC-24		CONTRACT NO. 60X61		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



OLD CROSSWALK STANDARDS

CONTINENTAL CROSSWALK - CURRENT STANDARD
 MATCH TO EXISTING (6' OR 8' WIDE)
 -LOCATIONS IN THE CENTRAL DOWNTOWN BUSINESS
 DISTRICT WILL HAVE 8' WIDE MARKINGS

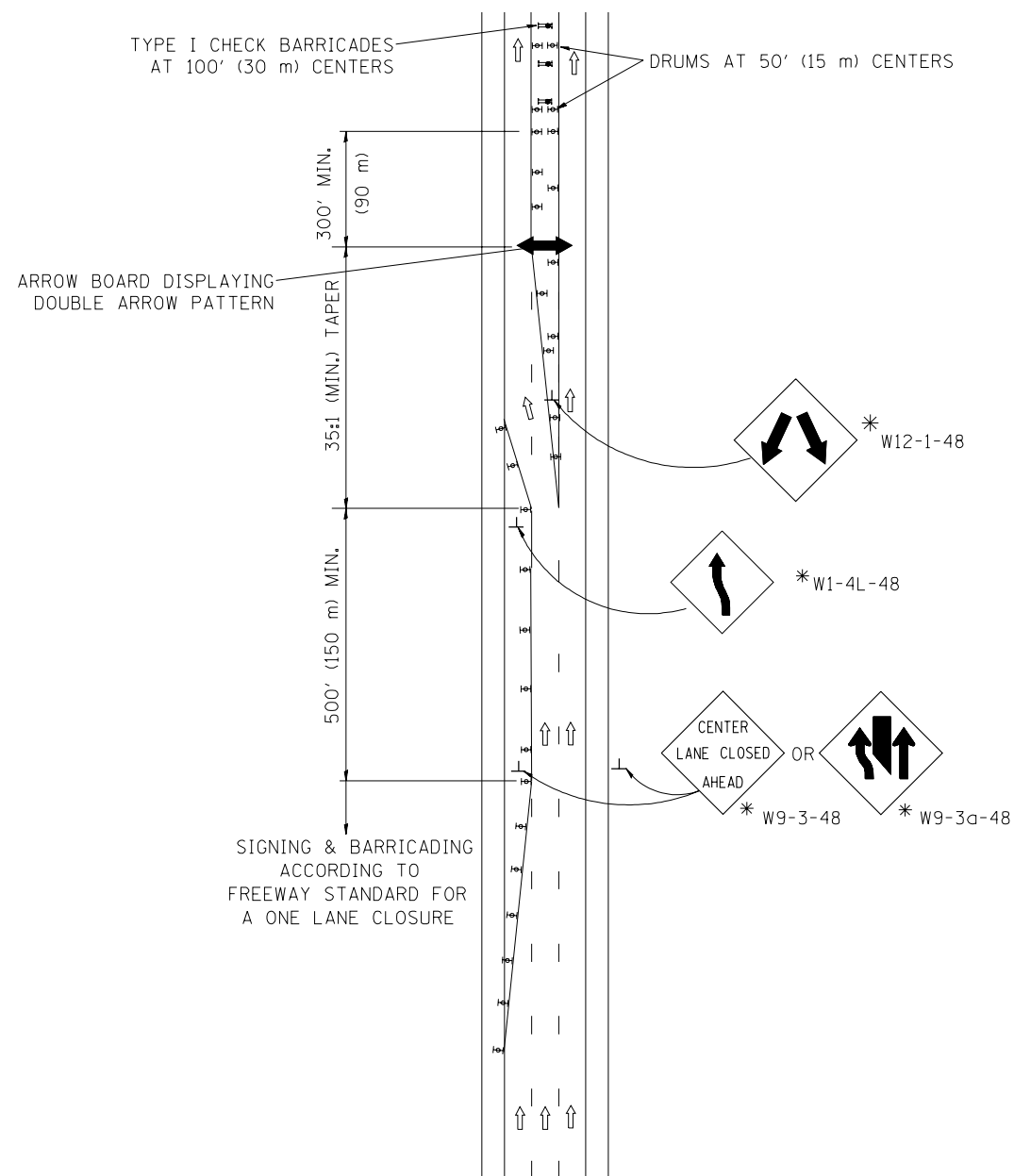
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

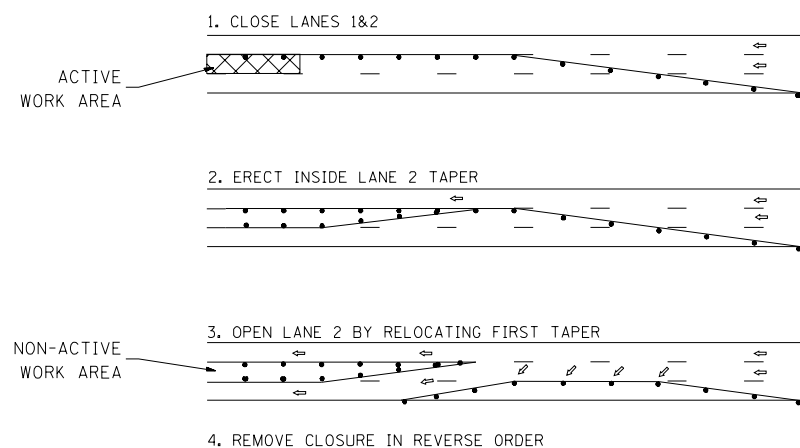
CITY OF CHICAGO			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	229
TC-24			CONTRACT NO. 60X61	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CENTER LANE CLOSURE



INSTALLATION SEQUENCE

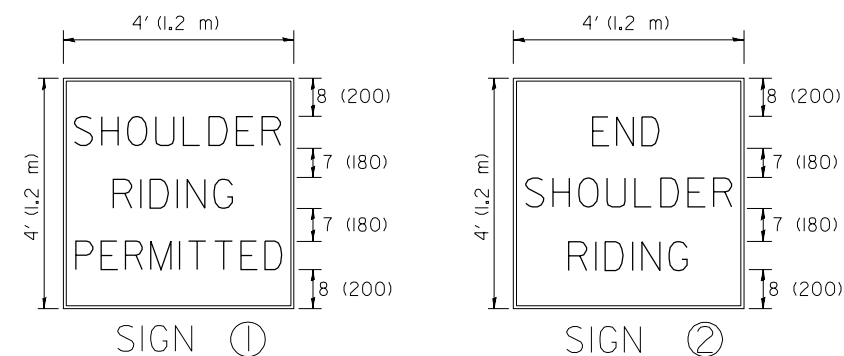
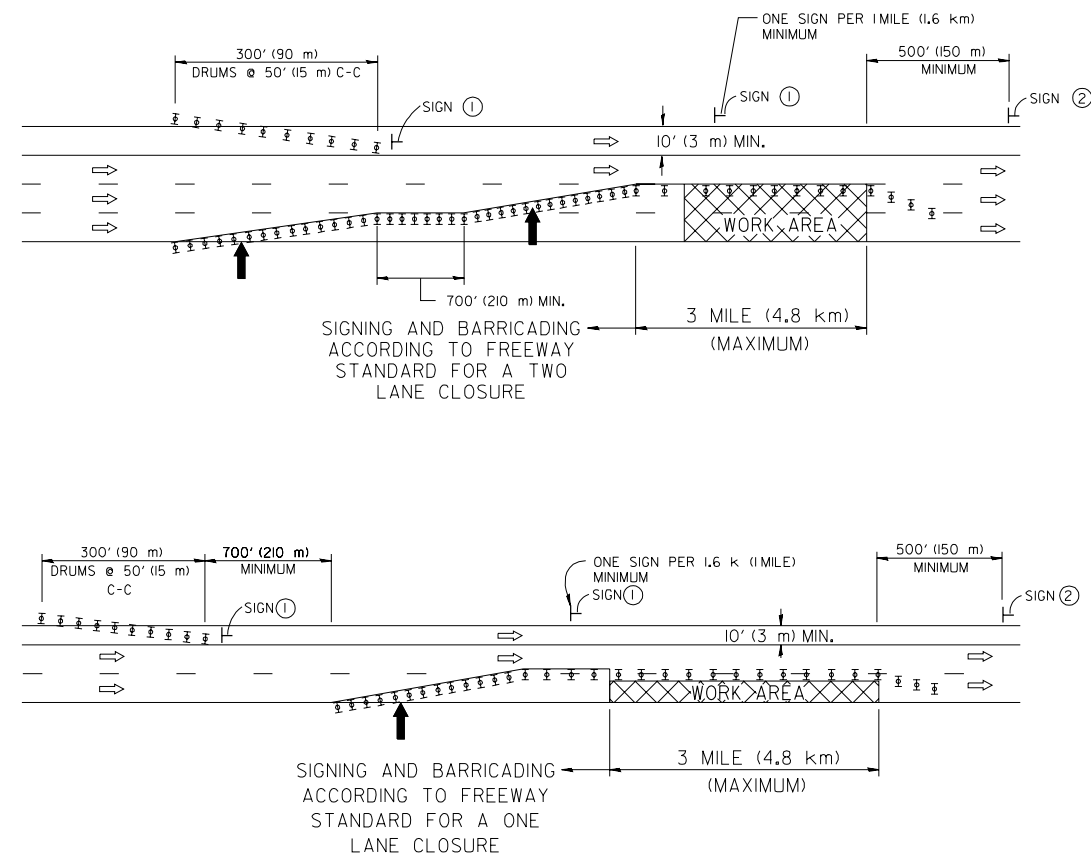


NOTES

1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➡ ARROWBOARD
- ▣ ACTIVE WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT *
- ⊥ TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME = W:\diststd\22x34\tc25.dgn	USER NAME = lryso	DESIGNED -	REVISED - J.A.F. 04-03
		DRAWN -	REVISED - S.P.B. 01-07
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - S.P.B. 12-09
	PLOT DATE = 1/26/2010	DATE -	REVISED -

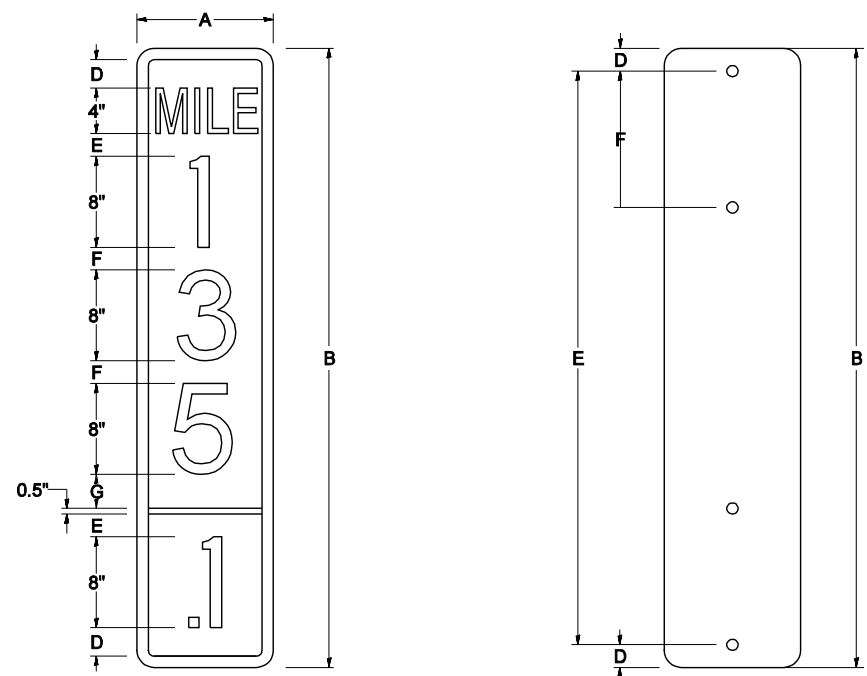
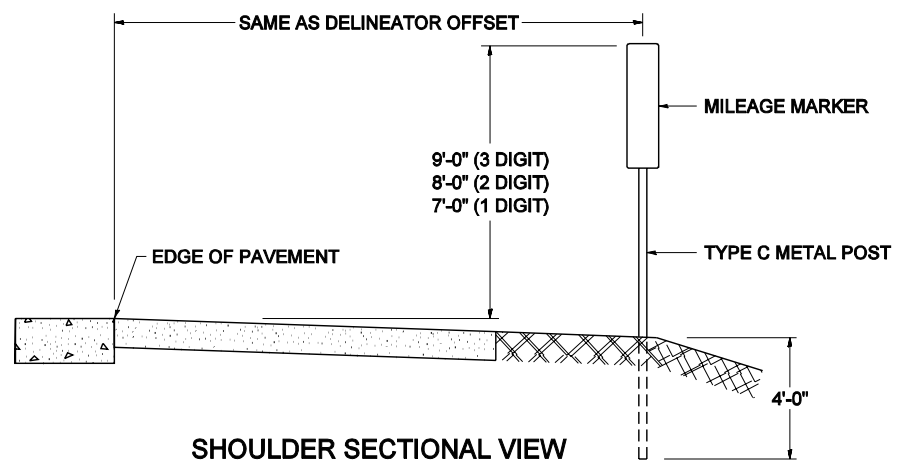
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
CENTER LANE CLOSURE SHOULDER LANE

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

F.A. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 230
TC-25			CONTRACT NO. 60X61	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STANDARD DESIGN FOR MILE POST

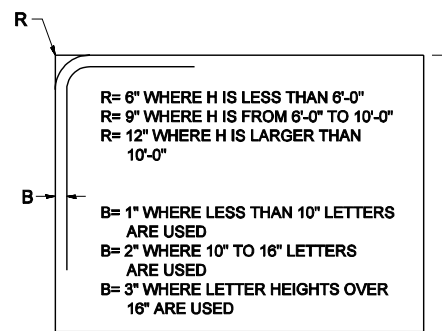


SIGN SIZE	DIMENSIONS						
	A	B	C	D	E	F	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	3

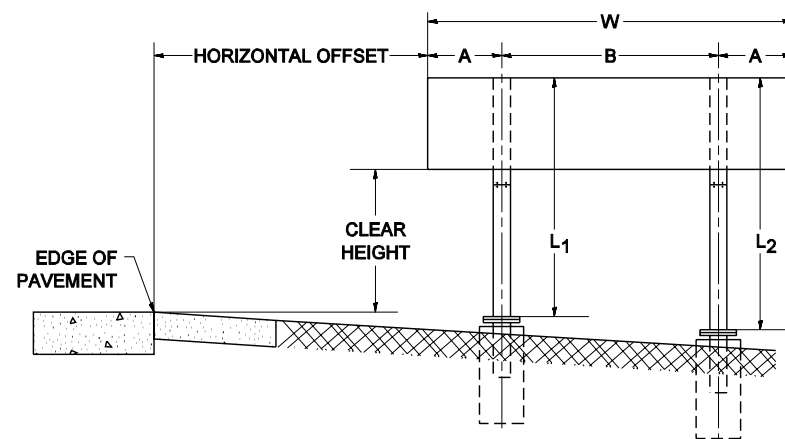
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES					BLANK STD.	
	LINES						
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

BORDER AND RADIUS LAYOUT



MAJOR GUIDE SIGN LAYOUT

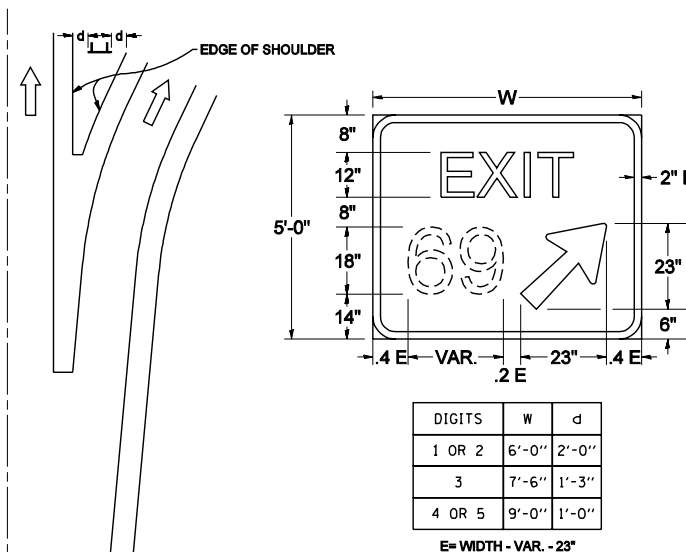


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

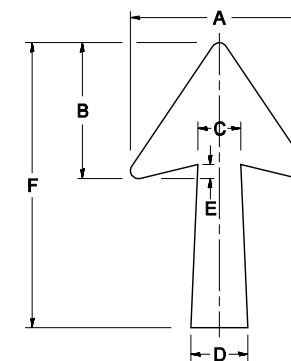
"L1 IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT."

"A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

GORE SIGNS

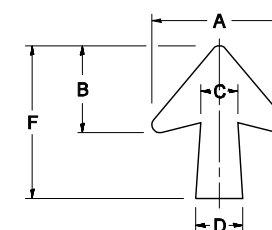


STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



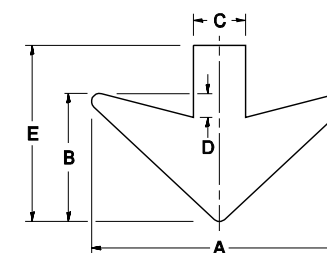
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 1/8	15 1/8	11 3/8	3 3/4	5	1 1/2	2 1/4	1 1/8
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	2 9/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	35 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 3/8	3 3/8		18 1/4	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS

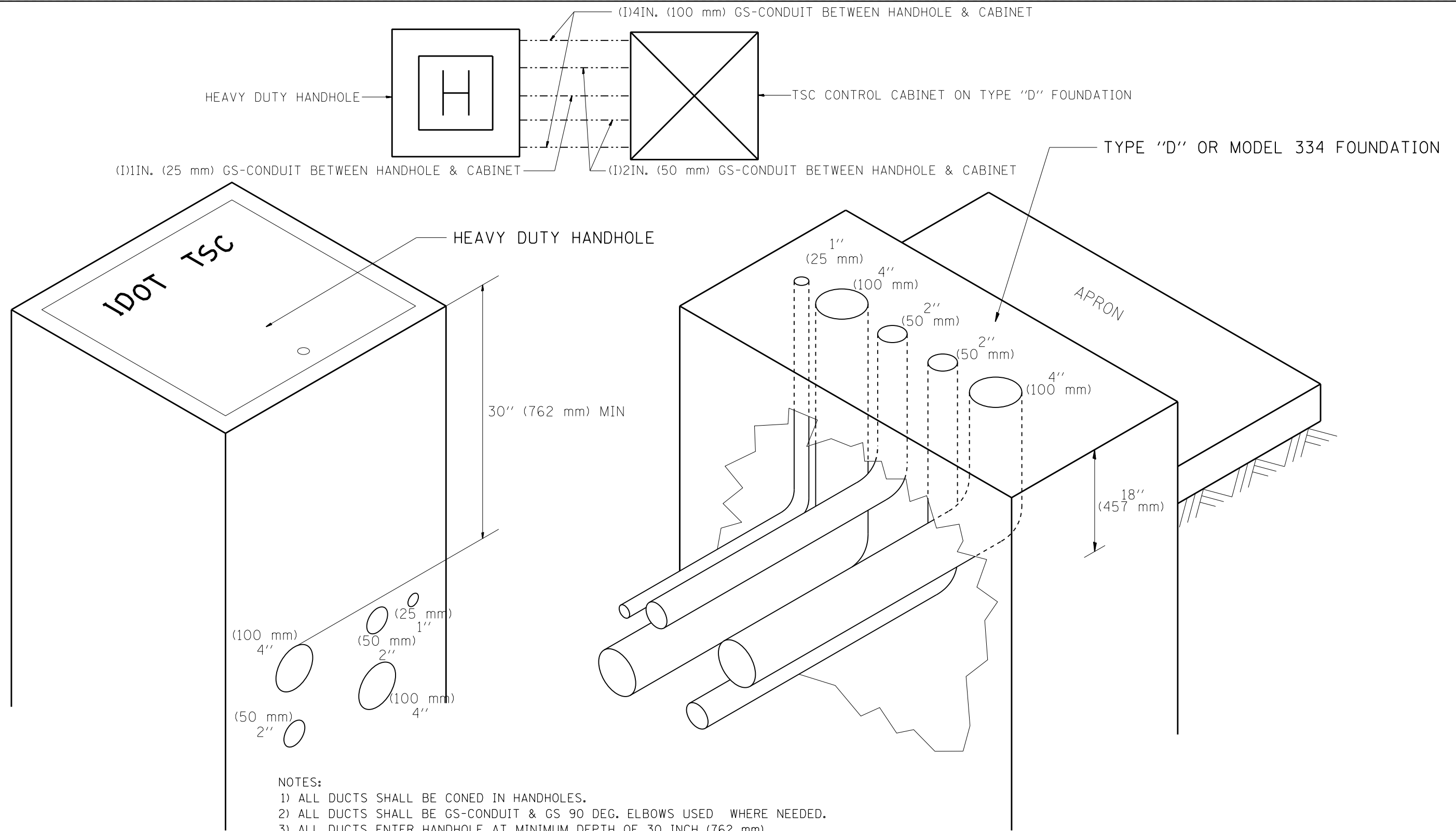


ARROW SYMBOL	A	B	C	D	E	F	R
17 1/4 x 14 1/4	14 1/4	9 3/8	3 3/8	4 1/2	1 1/2	17 1/4	3/4
20 1/4 x 17 1/4	17 1/4	11 3/4	4 3/8	5 5/8	1 1/2	20 1/4	
25 x 21 1/8	21 1/8	14 1/4	5	6 3/4	1 3/4	25	1
9 5/8 x 8 1/8	8 1/8	5 1/8	2 3/8	2 3/8		9 5/8	1/2

DOWN ARROWS



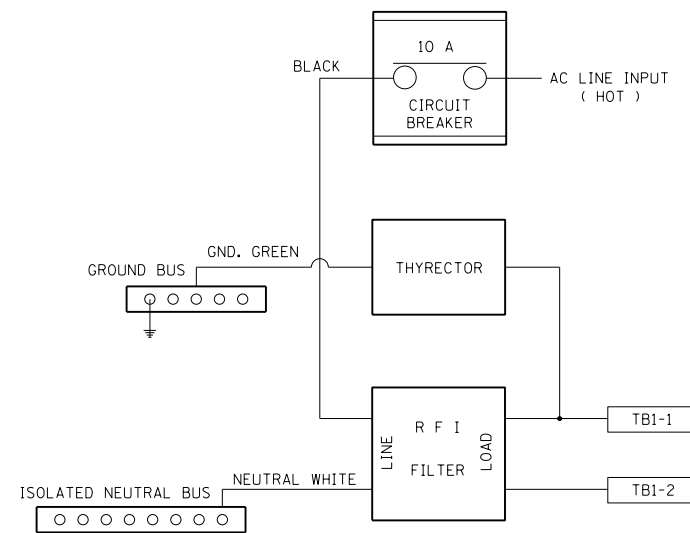
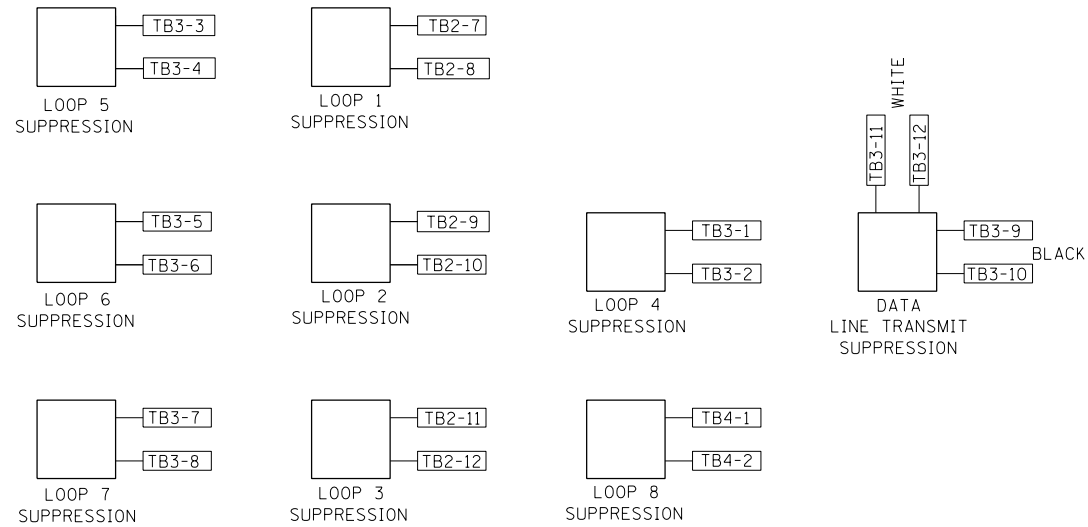
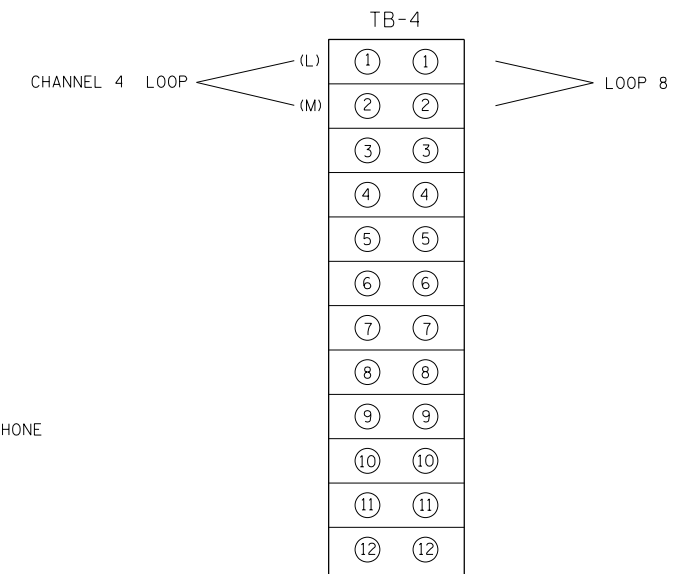
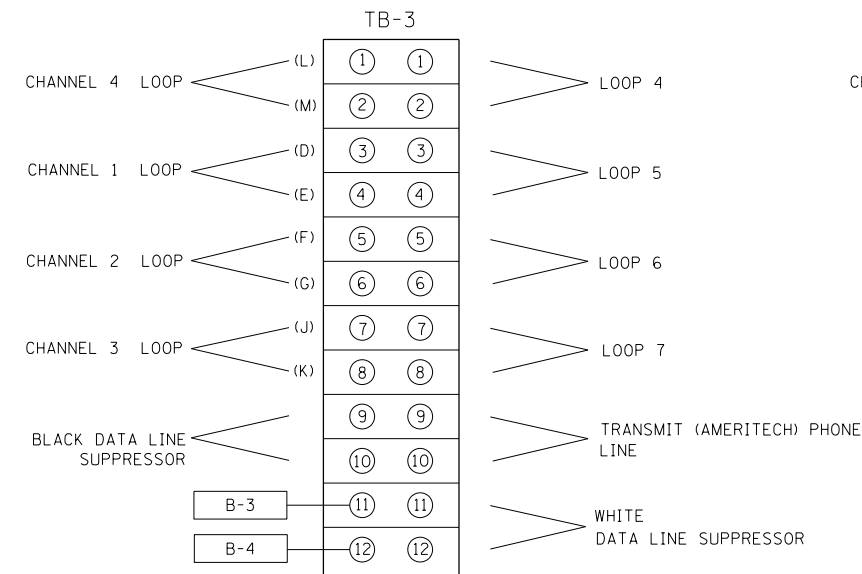
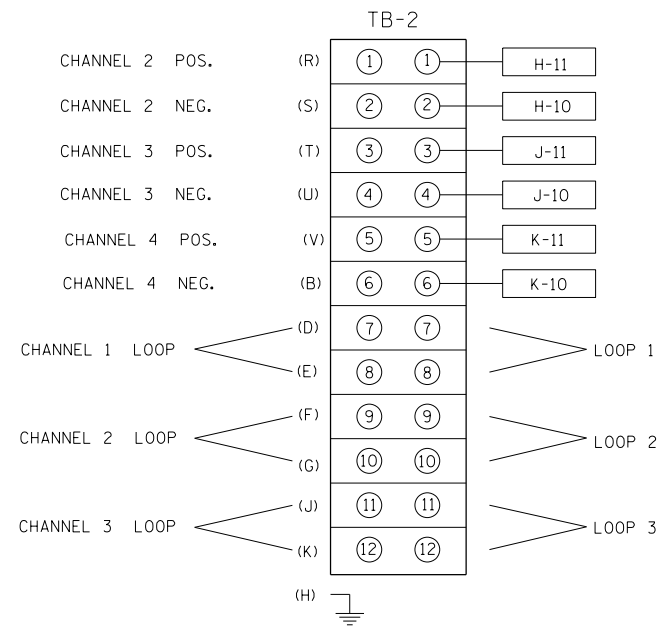
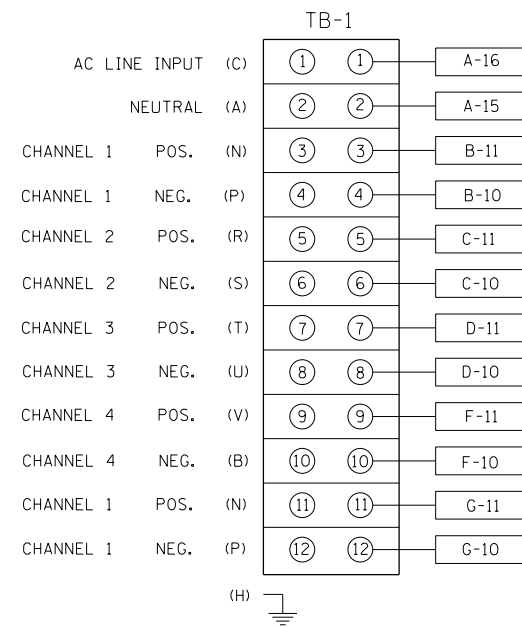
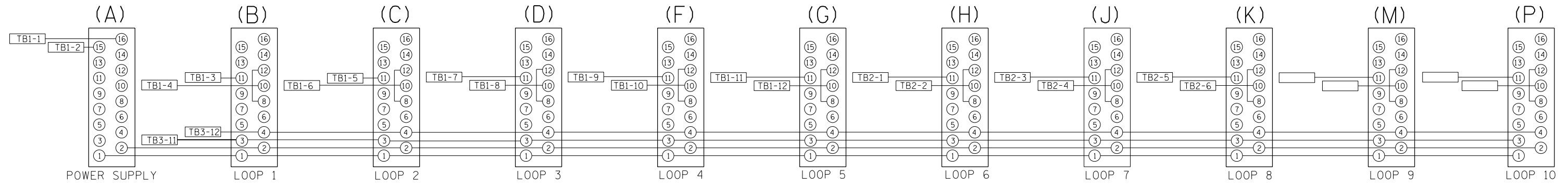
ARROW SYMBOL	A	B	C	D	E	R
16 1/2 x 24	24	12	5	1 1/2	16 1/2	3/4
22 x 32	32	16	6 1/2	3	22	1

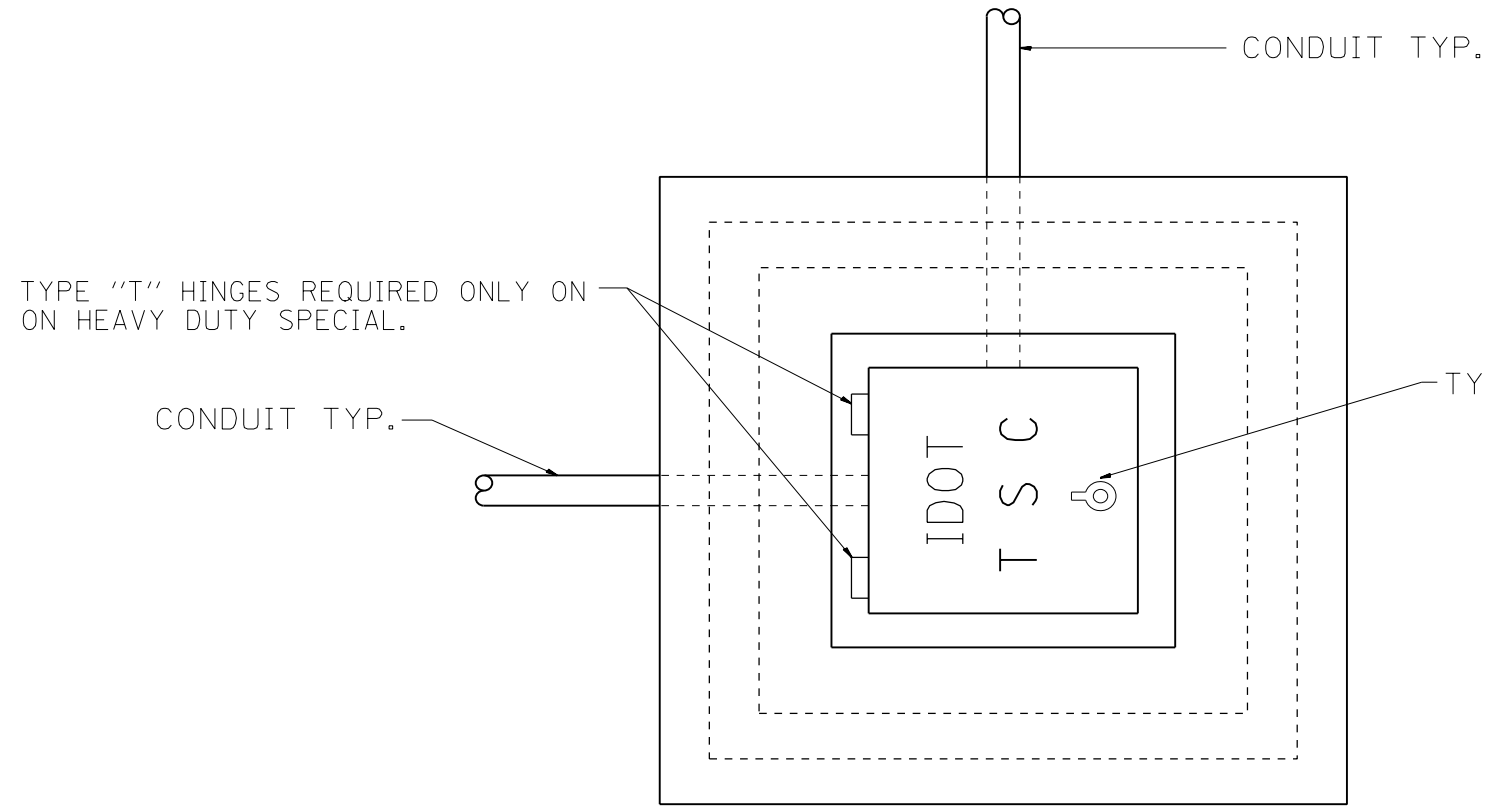


- NOTES:
- 1) ALL DUCTS SHALL BE CONED IN HANDHOLES.
 - 2) ALL DUCTS SHALL BE GS-CONDUIT & GS 90 DEG. ELBOWS USED WHERE NEEDED.
 - 3) ALL DUCTS ENTER HANDHOLE AT MINIMUM DEPTH OF 30 INCH (762 mm)
 - 4) ALL HANDHOLE COVERS SHALL READ "IDOT TSC".
 - 5) ALL CABINET HANDHOLES SHALL BE HEAVY DUTY.
 - 6) DUCTS SHALL BE CENTERED IN CABINET FOUNDATION/HANDHOLE AS SHOWN.
 - 7) CONDUITS SHALL BE SPACED 305 mm (1 FOOT) CENTER TO CENTER IN HEAVY DUTY HANDHOLE.
 - 8) INSTALL 3/4" X 10' (20 mm X 3 m) COPPER CLAD STEEL GROUND ROD IN HDHH PROVIDED AS CABINET PAD. EXOTHERMIC WELD CONNECTION FROM GROUND ROD TO #6 GROUND WIRE INSULATED (GREEN).
 - 9) BOND ALL GSC CONDUITS IN CABINET FOUNDATION.
 - 10) INSTALL #6 GROUND WIRE IN 1IN. (25 mm) GSC FROM HANDHOLE TO CABINET.
 - 11) TYPE "D" FOUNDATION SHALL BE 18" FROM TOP OF FOUNDATION TO FINISHED GRADE.

FILE NAME =	USER NAME = myersc	DESIGNED - R.L.	REVISED - 09/96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	CABINET - HANDHOLE CONDUIT DETAIL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\388039-pwintl.ecomonline.local\PWAE	COM\Documents\01 Americas\Transportation\400000\Drawn Circle\0111111111\000.CAD\016.Elec	DRAWN	REVISED - 04/99			90/94/290	2013-077R	COOK	317	232
Default	PLOT SCALE = 50.0000 ' / in.	CHECKED - R.L.	REVISED - 07/2010	SCALE: NONE SHEET OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	PLOT DATE = 10/13/2014	DATE - 06/05/95				CONTRACT NO. 60X61				

BACK VIEW OF TONE RACK



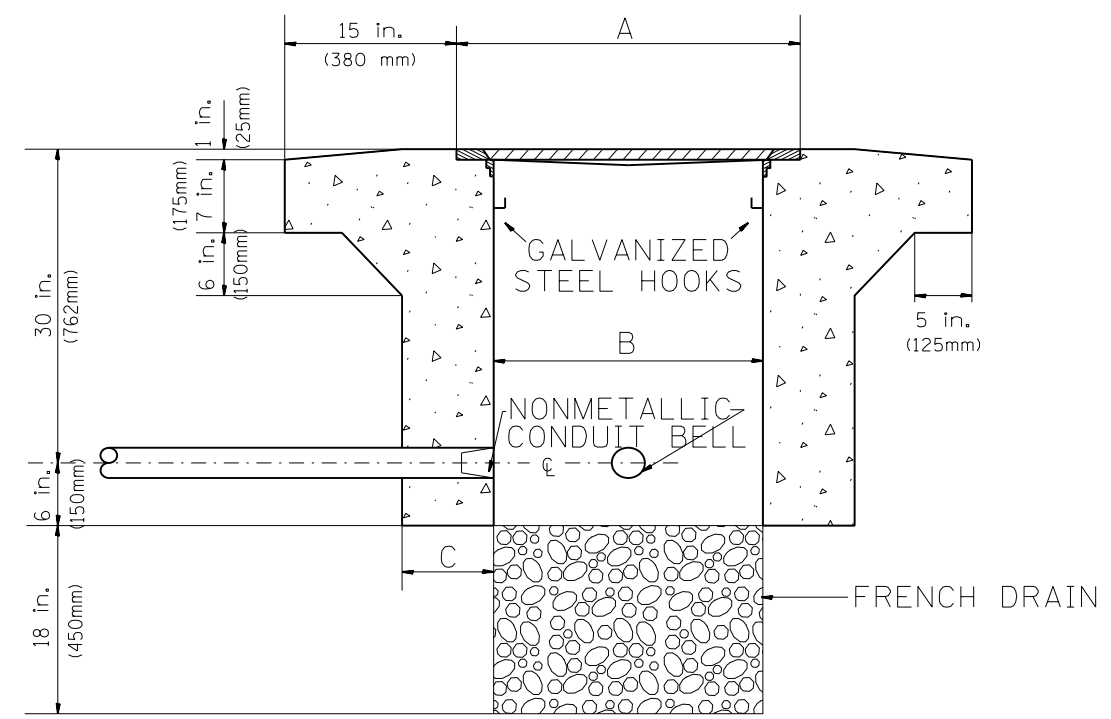


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

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

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



ELEVATION

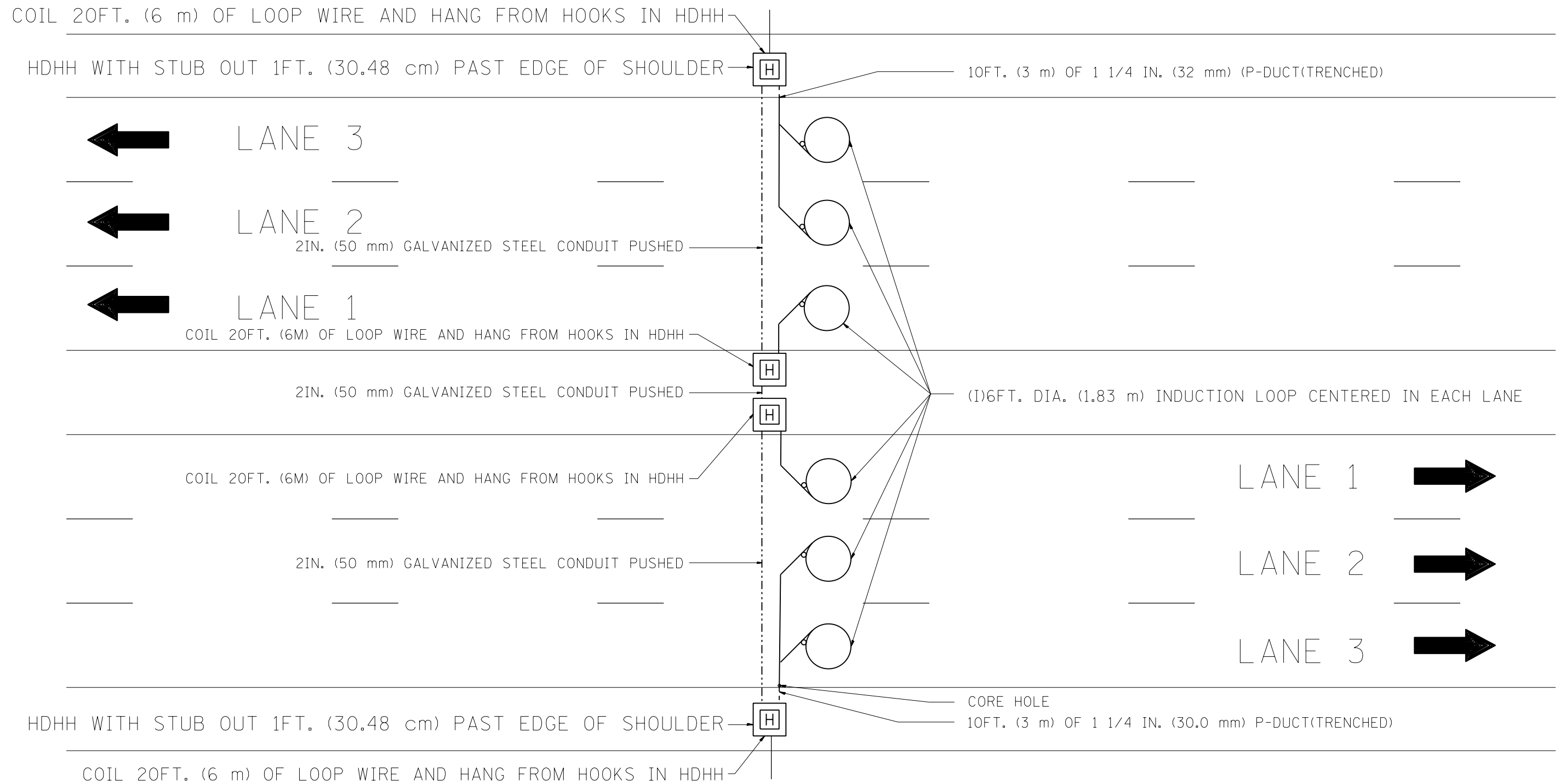
HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

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

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

PC CONCRETE - HEAVY DUTY HAND HOLE

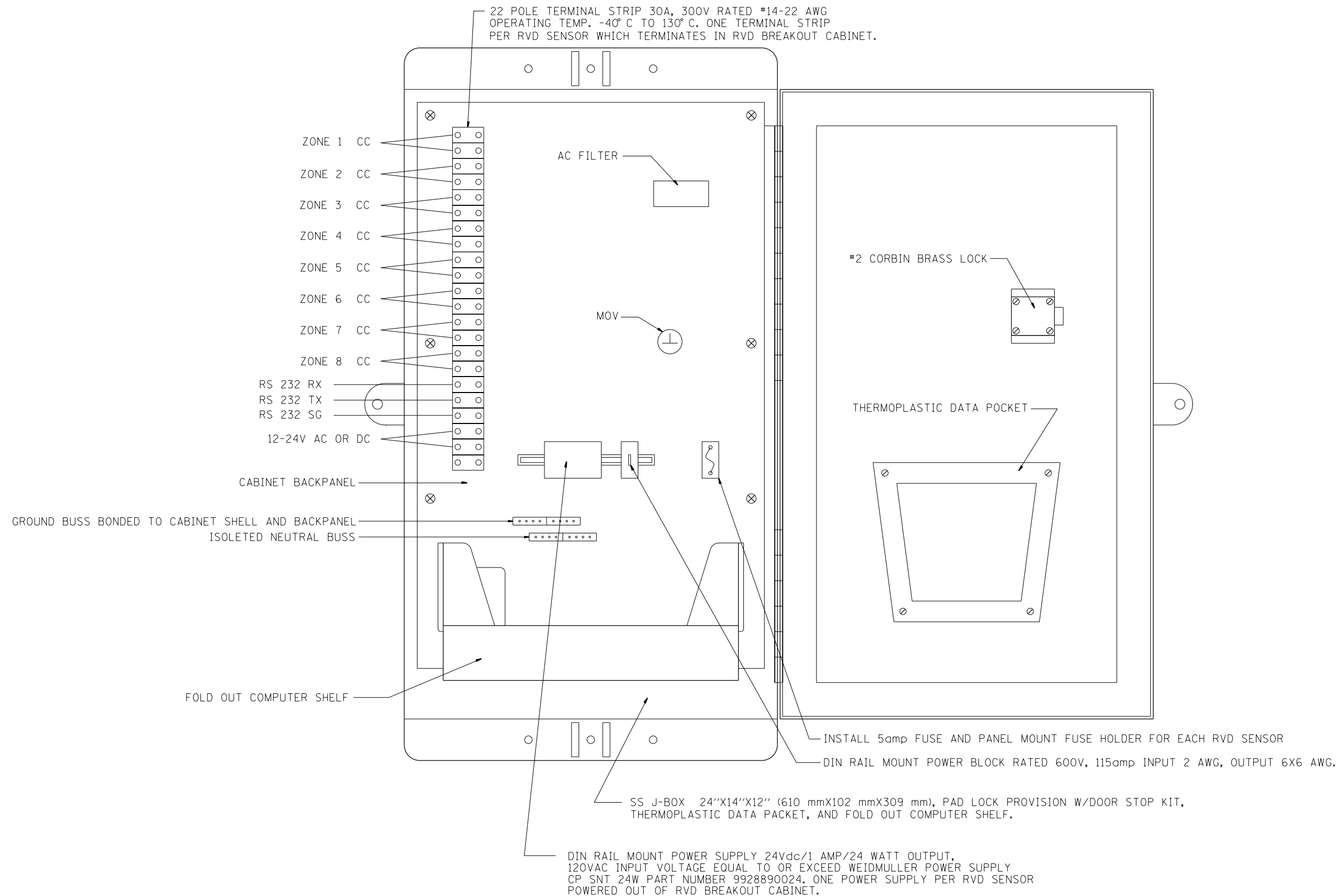
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pw:\388039-pwintl.eecomonline.local\PWAE	C:\00\Documents\01 Americas\Transportation\	DRAWN Circle\Pho\11\000.CAD\016.Elec	REVISED TSC\TYP400*4-44-55.dgn		SCALE: NONE	SHEET	OF SHEETS	STA.	TO STA.	90/94/290	2013-077R	COOK	317	234
Default	PLOT SCALE = 50.0000' / in.	CHECKED - R.L.	REVISED -								CONTRACT NO. 60X61			
	PLOT DATE = 10/13/2014	DATE - 09/11/96	REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP. IT SHALL NOT BE MEASURED FOR PAYMENT.

FILE NAME =	USER NAME = myersc	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	3 LANE COUNT STATION (DIFFERENT DIRECTIONS)		F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\388039-pwintl.ecomonline.local\PWAE	COM00\Documents\01 Americas\Transportation\400000\Drawn Circle\Photo\11\000.CAD\016.Elec	REVISION	REVISED -				90/94/290	2013-077R	COOK	317	235
Default	PLOT SCALE = 50.0000' / in.	CHECKED - J.G.	REVISED -				CONTRACT NO. 60X61				
	PLOT DATE = 10/13/2014	DATE - 12-02-2010	REVISED -	SCALE: NONE	SHEET	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



NOTES:

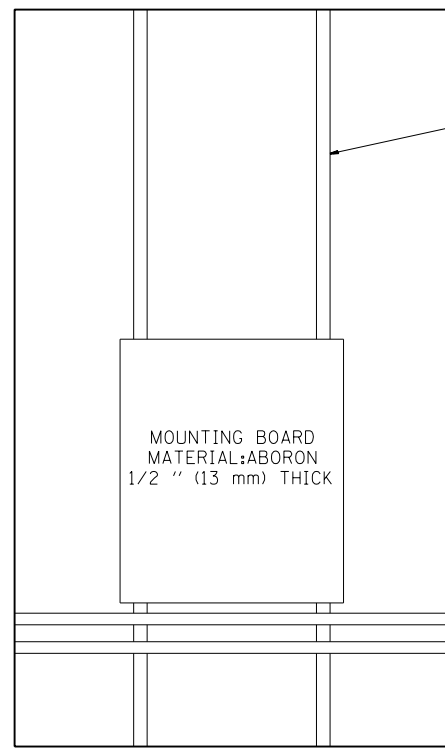
- 1.- CONTRACTOR SHALL INSTALL 3-1C*6 EPR POWER CABLE BETWEEN RVD BREAKOUT CABINET AND SURV. CABINET. CONTRACTOR SHALL INSTALL A SEPARATE 10amp CIRCUIT BREAKER FOR EACH RVD BREAKOUT CABINET POWERED FROM SURV. CABINET.
- 2.- CONTRACTOR SHALL INSTALL 1-6C*19 TW, SH, TELEPHONE CABLE WHICH MEETS PE-54 REA RUS SPECIFICATIONS TO CARRY CONTACT CLOSURES TO SURVEILLANCE CABINET. NO MORE THAN TWO SEPARATE ZONE CONTACT CLOSURES PER ONE 6C*19 CABLE ASSEMBLY.
- 3- INSTALL 6 FOOT (1.83 m) -RS 232 SERIAL CORD W/DB 9 (FEMALE END) FOR LAP TOP INTERFACE FOR SENSOR SETUP AND MAINTENANCE.

FILE NAME =	USER NAME = myersc	DESIGNED - R.L.	REVISED -
pw:\388039-pwintl.ecomonline.local\PWAE	COM\00\Documents\01 Americas\Transportation\	DRAWN Circle\Pho\000.CAD\016.Elec	REVISED TSC\TYP400*4-44-55.dgn
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	PLOT DATE = 10/13/2014	DATE - 10/31/07	REVISED -

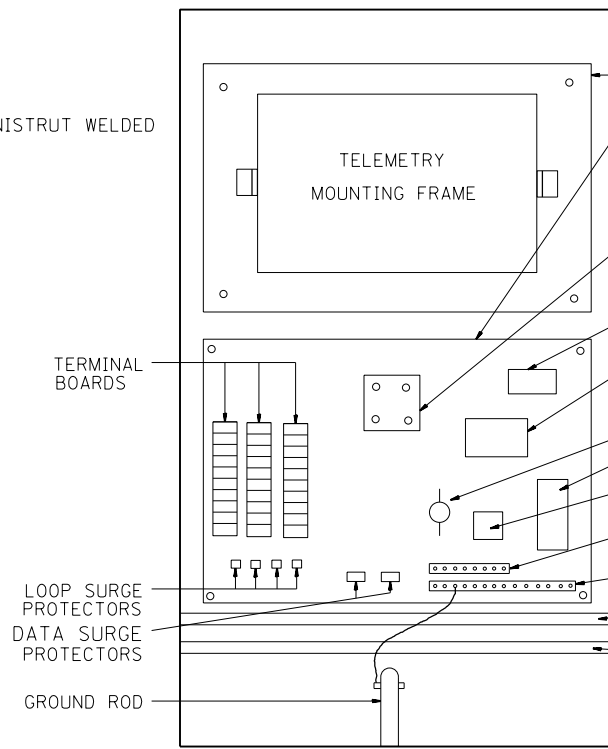
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER**

RVD BREAKOUT CABINET TYPICAL	
SCALE: NONE	SHEET OF SHEETS STA. TO STA.

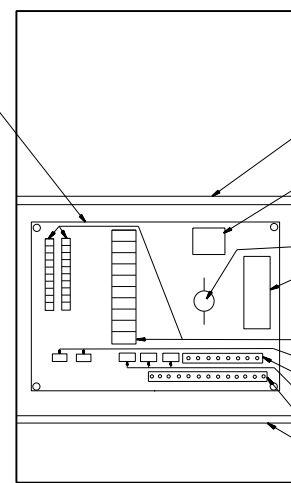
F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	236
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



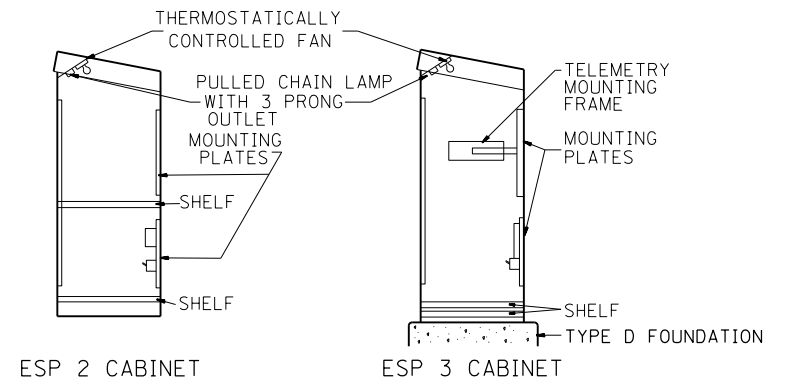
SIDE VIEW ESP 3 & 4 CABINET



ESP 3 CABINET



ESP 2 CABINET



ESP 2 CABINET

ESP 3 CABINET

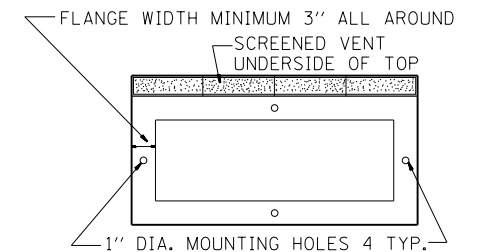
PROFILE VIEWS

NOTE: MOUNTING PLATES TO BE MOUNTED TO BACK PANEL OF CABINET

TYPICAL CABINET INTERIORS
STANDARD TRAFFIC SYSTEMS CENTER CABINETS

MINIMUM DIMENSIONS INSIDE

TYPE	HEIGHT (IN-mm)	WIDTH (IN-mm)	DEPTH (IN-mm)	THICKNESS (IN-mm)	MATERIAL
ESP1	22.5" (571.5 mm)	14.25" (361.95mm)	9.75" (247.65mm)	3/16" (4.76mm)	FABRICATED ALUMINUM
ESP2	36" (914.4mm)	20" (508.0mm)	15" (381.0mm)	73/16" (4.76mm)	FABRICATED ALUMINUM
ESP3	49.5" (1.26 m)	30" (762.0mm)	17" (431.8mm)	3/16" (4.76mm)	FABRICATED ALUMINUM
ESP4	55" (1.4 m)	44" (1.12 m)	26" (660.4mm)	3/16" (4.76mm)	FABRICATED ALUMINUM



1" DIA. MOUNTING HOLES 4 TYP.
BOTTOM VIEW MOUNTING PATTERN

NOTES:

- CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION T637 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". THE FINAL COAT SHALL BE (X) IN COLOR. THE INTERIOR SHALL BE PAINTED WHITE. SIGNAL POSTS AND HEADS TO BE FEDERAL YELLOW 89-19(MAUTZ).
- CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION T400 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
- ALL CABINETS WHICH ARE SERVICED BY 117 VOLTS A.C. POWER SHALL BE EQUIPPED WITH A 10 AMP CIRCUIT BREAKER, A.C. R.F.I. LINE FILTERING SURGE PROTECTOR, VARISTOR, DATA SURGE AND LOOP SURGE PROTECTORS AS INCIDENTAL TO THE COST OF THE CABINET. CMS CABINETS TYPE IV SHALL HAVE A 60 AMP. CIRCUIT BREAKER MINIMUM.
- ESP 2/3/4 CABINETS SHALL BE FITTED WITH A THERMOSTATICALLY CONTROLLED FAN. IT SHALL BE MOUNTED AT THE TOP OF THE CABINET. THE FAN SHALL BE CAPABLE OF OPERATING AT 130 CPM AT 160' (48.8 m) OF STATIC WATER PRESSURE. A PORCLAIN BASED PULL CHAIN FIXTURE WITH 3 PRONG OUTLET SHALL ALSO BE PROVIDED.
- RAMP METERING ESP 3 TYPE CABINETS SHALL ALSO BE EQUIPPED WITH A LOAD RELAY AND 2 CIRCUIT FLASHER. LAMPS, FAN, LOAD RELAY, AND 2 CIRCUIT FLASHER SHALL BE INCIDENTAL TO THE COST OF THE CABINET
- INCIDENTAL TO THE COST OF EACH CABINET THE CONTRACTOR SHALL CONSTRUCT A 5 INCH (130mm) PCC SIDEWALK OF A RECTANGULAR AREA 3 FEET (915 mm) BY 4 FEET (1.25 m) IMMEDIATELY ADJACENT TO THE CABINET FOUNDATION ON THE SAME SIDE OF THE FOUNDATION AS THE CABINET DOOR TO PROVIDE FOOTING DURING INSTALLATION AND MAINTENANCE.
- ANCHOR BOLTS FOR PEDESTAL AND BASE MOUNTED CABINETS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- ALL CABINETS SHALL HAVE TERMINAL BLOCKS AND SHELVES AS SHOWN. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE CABINET. THE DOOR SHALL BE FURNISHED WITH A GASKET THAT SHALL FORM A WEATHER TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE HINGES SHALL BE CONTINUOUS AND BOLTED TO THE CABINET AND DOOR UTILIZING 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGES WILL BE MADE OF STAINLESS STEEL WITH A 0.25 INCH (6.35 mm) DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER PROOF.
- THE LATCHING MECHANISM SHALL BE A 3 POINT DRAW ROLLER TYPE. THE CENTER CATCH AND PUSHRODS SHALL BE EITHER CADMIUM OR ZINC PLATED, TYPE II CLASS I. PUSHRODS WILL BE TURNED EDGEWISE AT THE OUTWARD SUPPORTS AND SHALL BE 0.25 INCH (6.35 mm) BY 0.75 INCH (19.05 mm). MINIMUM. ROLLERS SHALL HAVE A MINIMUM DIAMETER OF 0.875 INCH (22.22 mm) AND WILL BE MADE OF NYLON. THE CENTER CATCH SHALL BE FABRICATED FROM 0.14 INCH (3.55 mm) STEEL, MINIMUM. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION. AN OPERATING HANDLE SHALL BE FURNISHED WITH EACH LOCK. THE HANDLE WILL BE STAINLESS STEEL WITH A 0.75 INCH (19.05 mm) DIAMETER SHANK.
- THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
- CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS.
- ALL FIELD CABINETS SHALL BE FITTED WITH BRASS LOCKS.
- ESP TYPE 2 & 3 CABINETS FITTED WITH TWO SHELVES AS SHOWN.
- POST TOP MOUNTED CABINETS, SHALL HAVE A 0.25 INCH (6.3 mm) BOTTOM OF CABINET WELDED.
- THE CONTROL CABINET SHALL BE SET PLUMB ON THE FOUNDATION AND FASTENED TO THE ANCHOR BOLTS WITH NUTS AND WASHERS. FLAT WASHERS SHALL BE INSTALLED BELOW AND ABOVE THE BASE PLATE OF THE CONTROL CABINET. LOCKWASHERS SHALL BE INSTALLED ON TOP OF THE TOP FLAT WASHER.

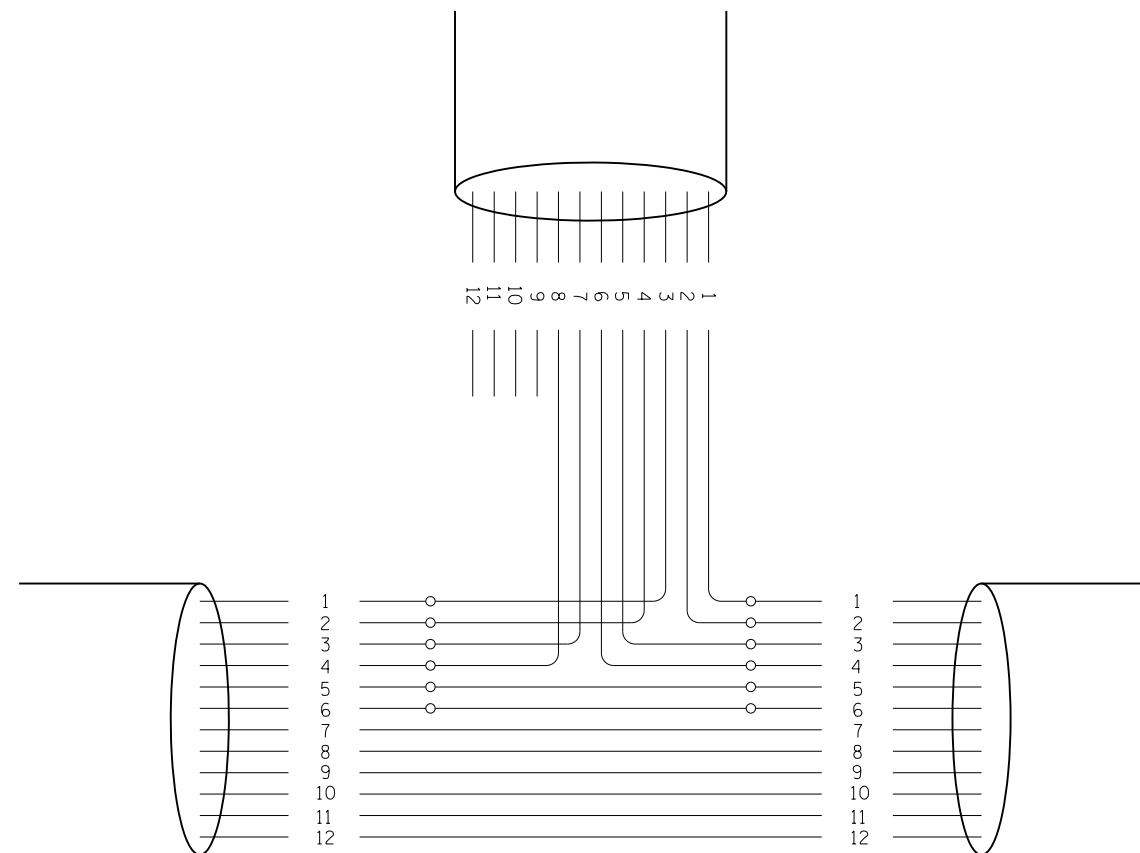
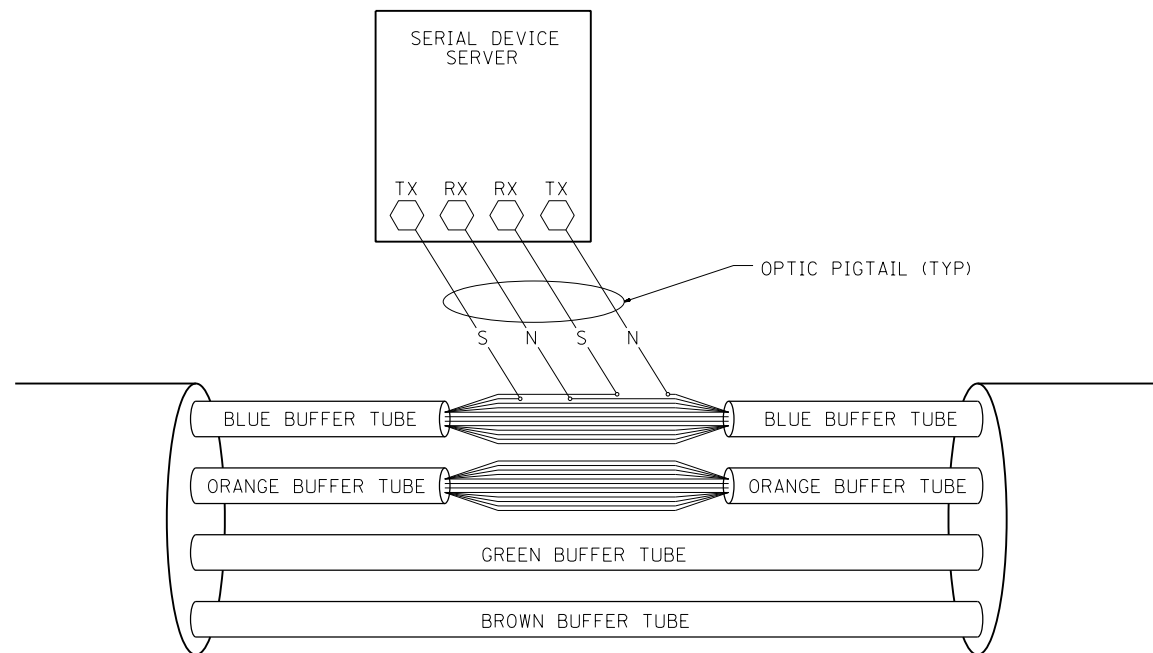
(X)

- | | |
|------------------|---------------------|
| EDENS | WALNUT * |
| KENNEDY | BLUE STREAK ** |
| EISENHOWER | CARIBBEAN BLUE * |
| I-290/IL53/I-355 | POST OFFICE BLUE ** |
| RYAN | YELLOW STONE II ** |
| I-55 | MEDIUM BRONZE * |
| I-57 | RED BARON ** |
| CAL-KING | BLUE STREAK ** |
| LAKE SHORE DR. | GREEN * |
| I-80 | STATUARY BRONZE ** |

ALL RAMP METERING CABINETS LIME GREEN ***. ALL POSTS, T.S. HEADS AND SERVICES WILL BE PAINTED FEDERAL YELLOW.
* MORTON POWDER PAINT COLOR OR EQUIVALENT.
** O'BRIEN POWDER PAINT COLOR OR EQUIVALENT.
*** BENJAMIN MOORE ENAMEL COLOR OR EQUIVALENT.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONFORMING TO COLOR REQUIREMENTS

FILE NAME =	USER NAME = myersc	DESIGNED - R.L.	REVISED - 12/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	CABINET DETAIL SHEET	F.A.I. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\388039-pwintl.eocomonline.local\PAE\COM\Documents\01 Americas\Transportation\44-55-44-55.dgn	DESIGNED - R.L.	REVISED - 02/98	90/94/290			2013-077R	COOK	317	237	
Default	PLOT SCALE = 50.0000' / in.	CHECKED - R.L.	REVISED - 03/99			CONTRACT NO. 60X61		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



PHYSICAL SPLICE DETAILS (TYP)
(NOT TO SCALE)

FIBERS		FUNCTION	APPLICATION DESCRIPTION
FIBER NO.	COLOR CODE		
1	BLUE	IN TX	DATA CIRCUIT
2	ORANGE	IN RX	
3	GREEN	OUT RX	
4	BROWN	OUT TX	
5	SLATE	IN TX	DMS
6	WHITE	IN RX	
7	RED	OUT RX	
8	BLACK	OUT TX	
9	YELLOW	IN TX	CCTV
10	VIOLET	IN TX	
11	ROSE	OUT RX	
12	AQUA	OUT TX	

NOTE:

1.- THIS DIAGRAM IS PROVIDED FOR ILLUSTRATION PURPOSES ONLY AND DEPICTS A TYPICAL FIBER OPTIC SPLICE.

FILE NAME = C:\d06010\155TSC400.DGN	USER NAME = myersc	DESIGNED - J.G.	REVISED - 03/04/2010
pw:\388039-pwintl.eocom\lne.local\pwae	C:\Documents\01 Americas\Transportation\400	DRAWN - Circle\Phd\11\000.CAD\016.Elec	REVISED - 11/14/09
Default	PLOT SCALE = 50.0000' / in.	CHECKED - J.G.	REVISED -
	PLOT DATE = 10/13/2014	DATE - 12/29/09	REVISED -

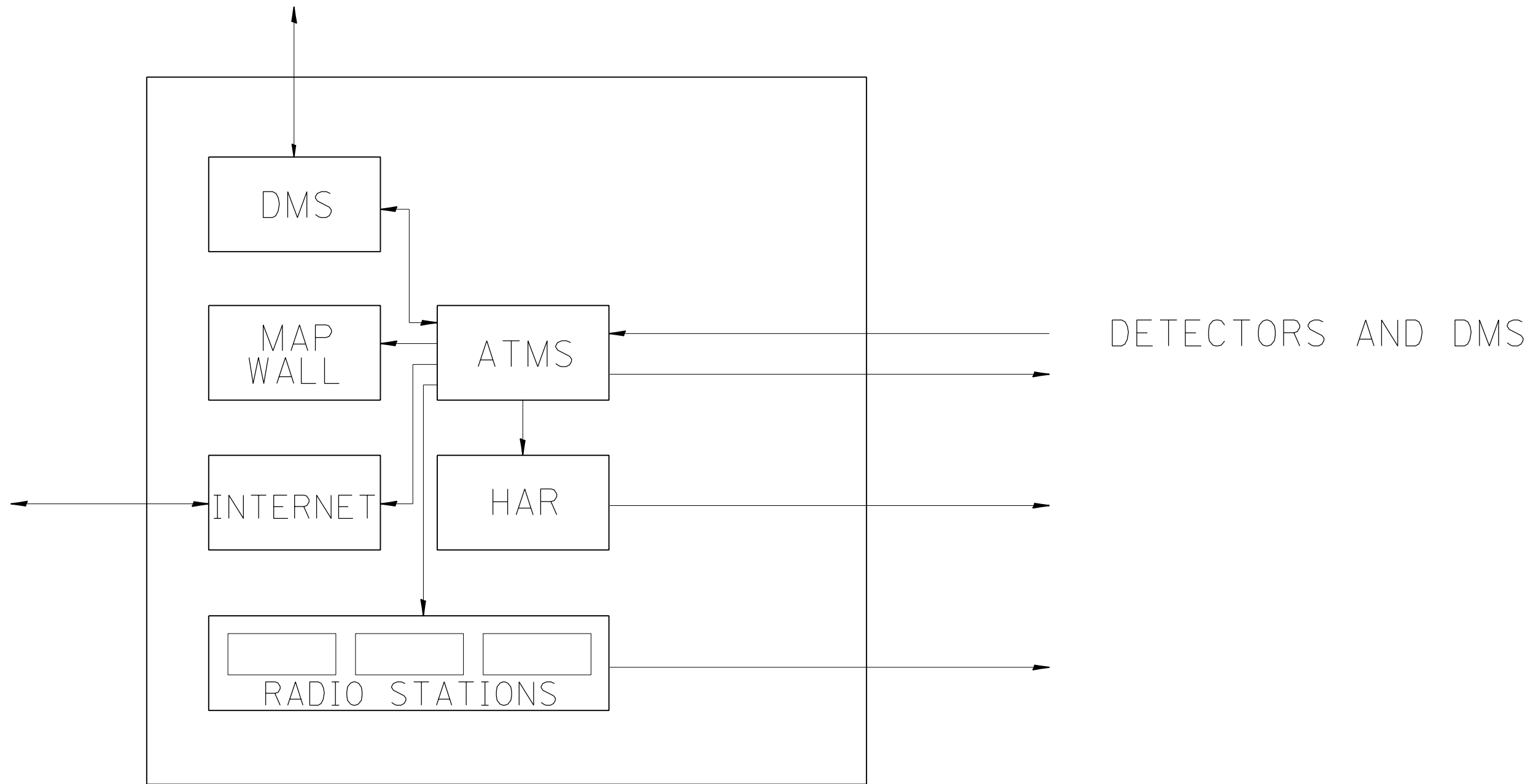
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC
SPLICING TYPICAL

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	238
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#41)



TSC

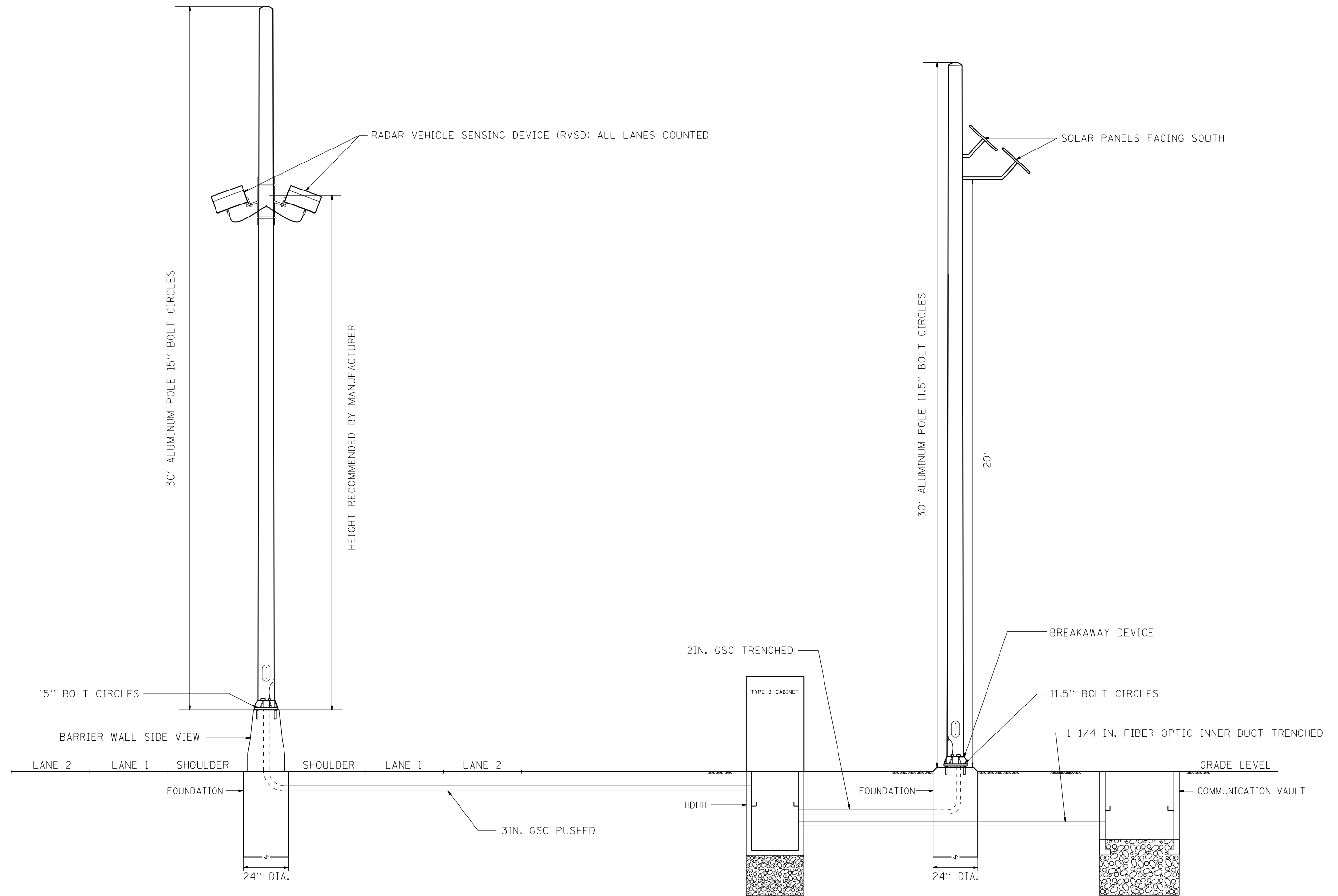
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Default	PLOT SCALE = 50.0000' / in.	CHECKED - J.G.	REVISED -
	PLOT DATE = 10/13/2014	DATE - 01/07/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

SCALE: NONE		SHEET	OF	SHEETS	STA.	TO	STA.
TSC ATMS							

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	239
CONTRACT NO. 60X61				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#43)



FILE NAME = C:\nd\06010\155TSC400.DGN	USER NAME = myersc	DESIGNED - J.G.	REVISED -
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	PLOT DATE = 10/13/2014	DATE - 08-25-2010	REVISED -

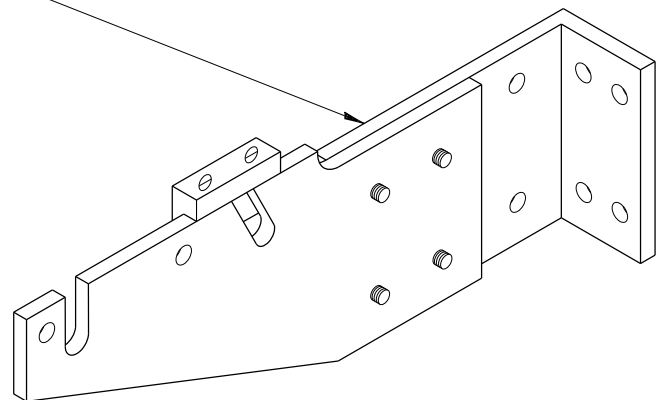
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

RVSD ROAD WAY LAYOUT

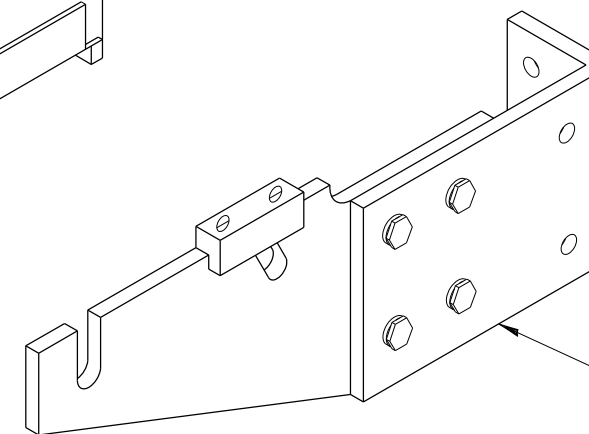
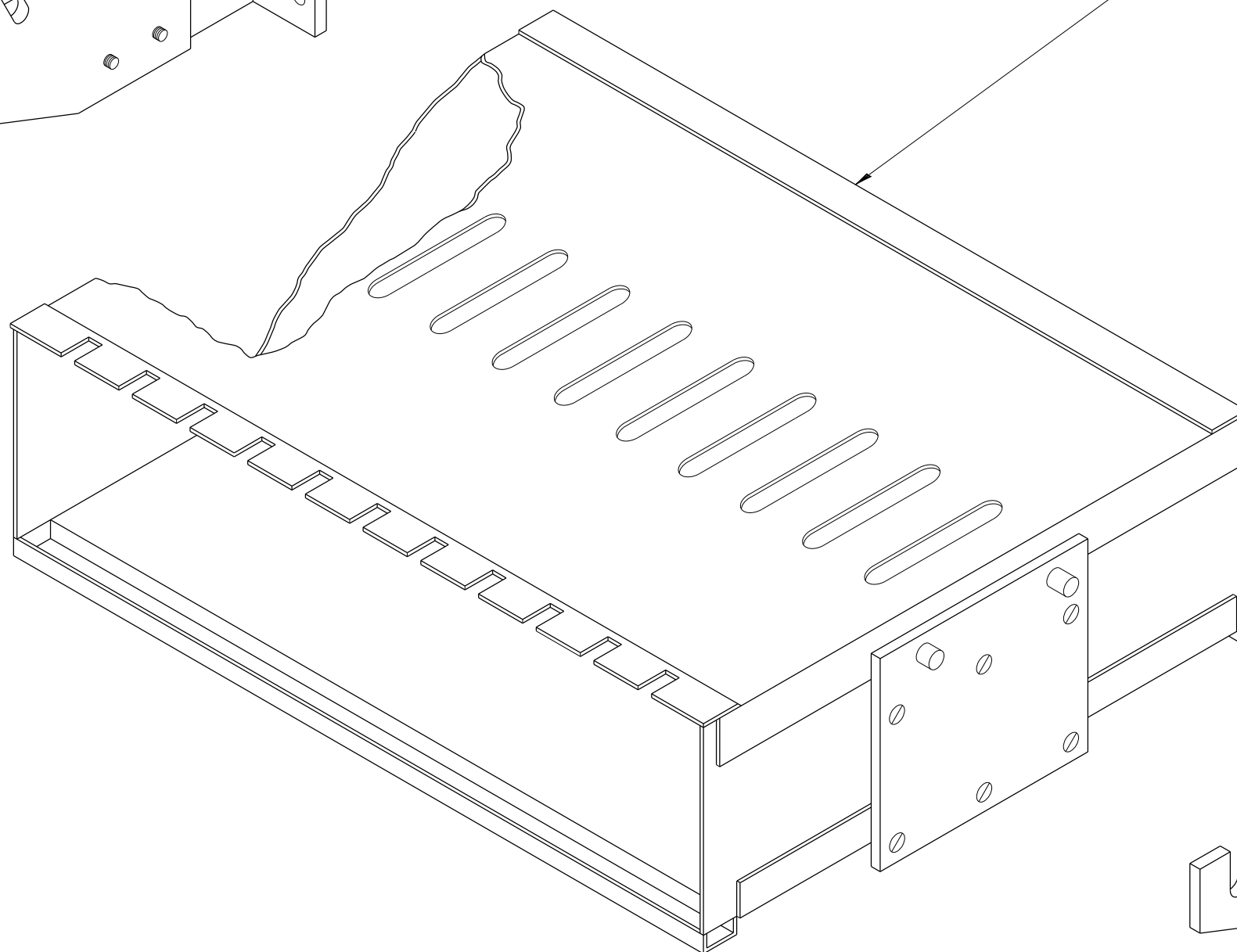
SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	240
CONTRACT NO. 60X61				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CRADLE



II MODULE MOUNTING FRAME
(FOR II TYPE "A" PLUG-IN TYPE TONE MODULES)



CRADLE

NOTE:

TYPE "A" TONE MODULES ARE PLUG
IN UNIT MEASURING 5-7/32" (132.55 mm) X 1.5" (38.1 mm) X 13-3/4" (349.25 mm)

FILE NAME =	USER NAME = myersc	DESIGNED - R.L.	REVISED - 06/94
pw:\388039-pwintl.ecomonline.local\PWAE	COM\Documents\01 Americas\Transportation\	DRAWN Circle\Photo\11-000.CAD\016.Elec	REVISED - 06/94
Default	PLOT SCALE = 50.0000' / in.	CHECKED - R.L.	REVISED -
	PLOT DATE = 10/13/2014	DATE - 06/21/94	REVISED -

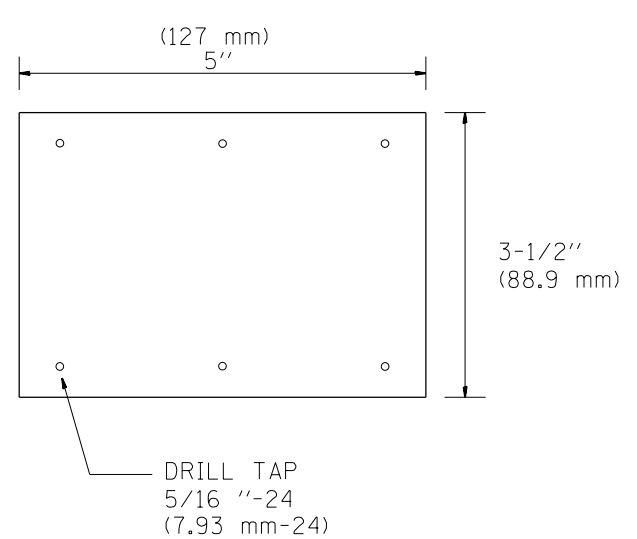
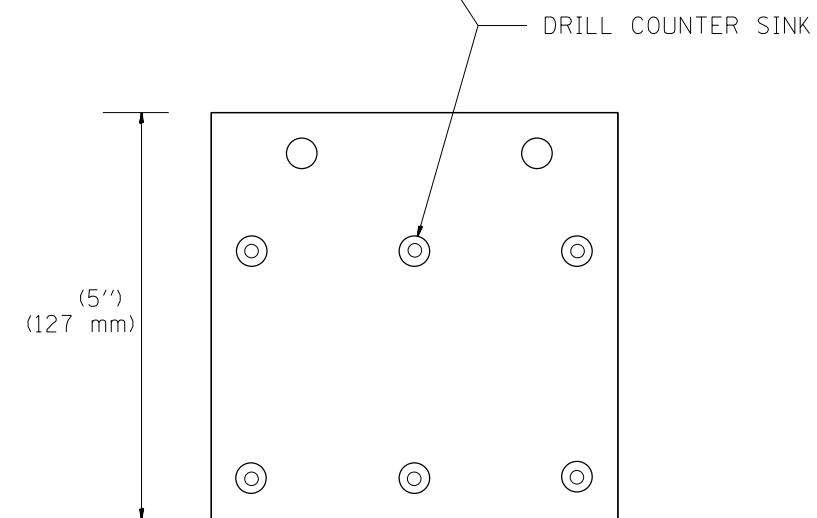
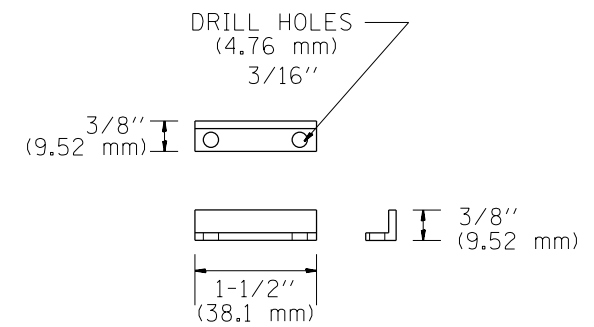
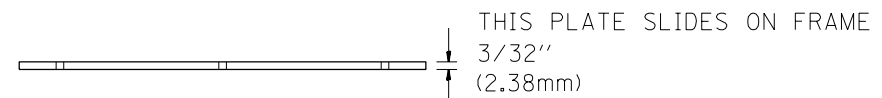
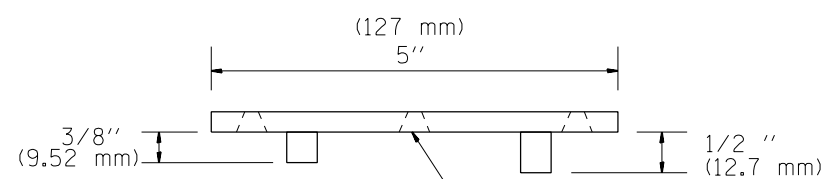
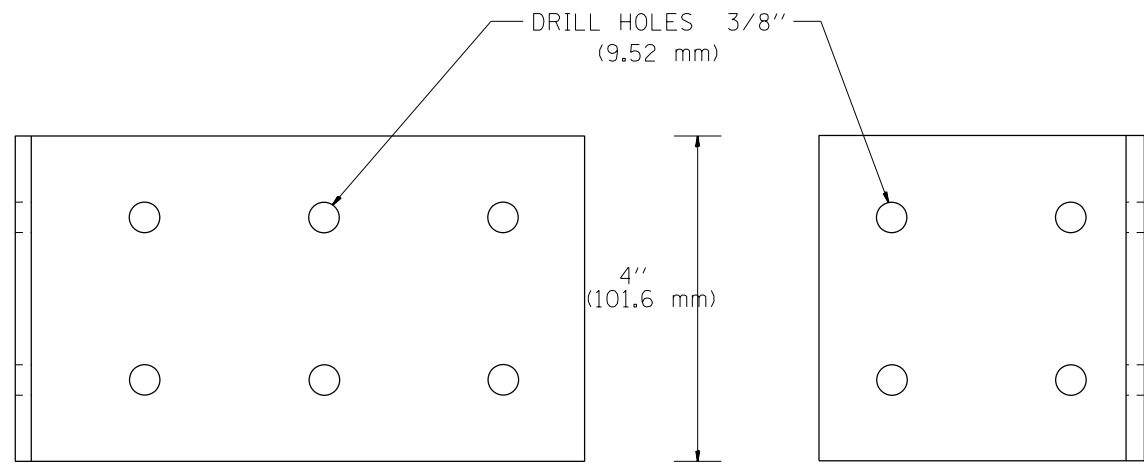
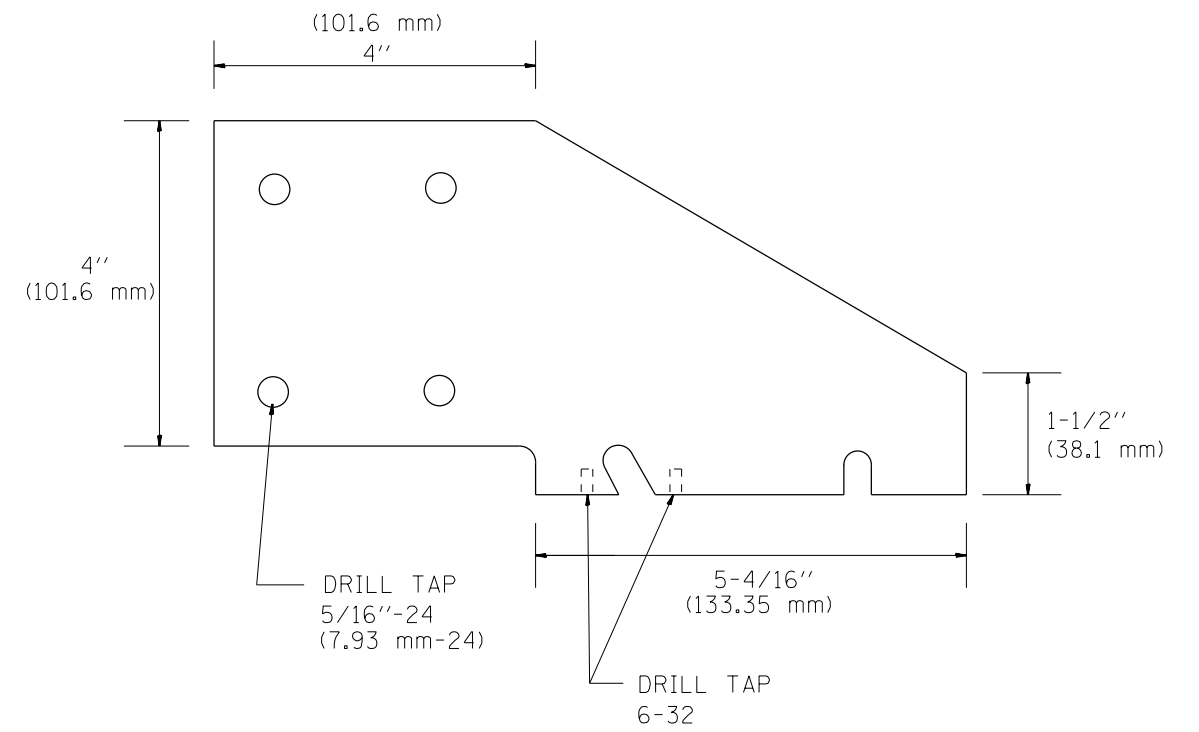
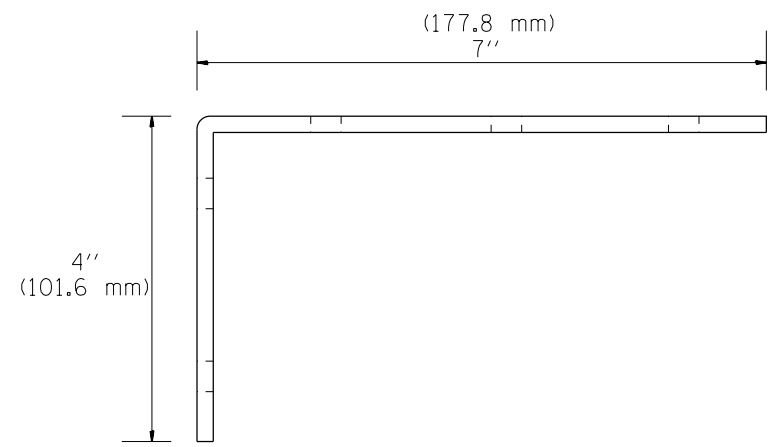
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIELD MOUNTING FRAME
WITH CRADLE ASSEMBLY

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	241
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#6)



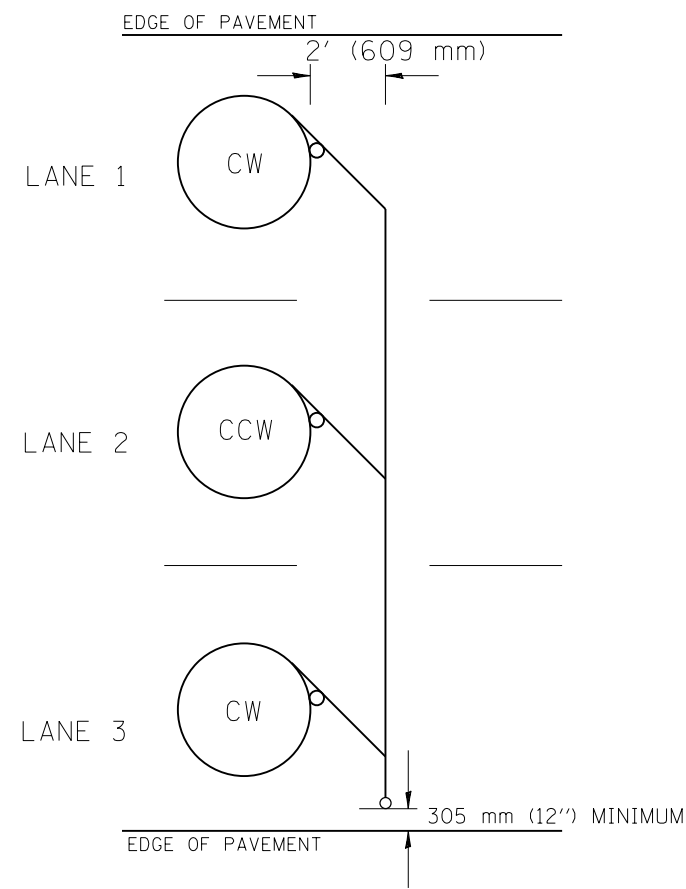
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pw:\388039-pwintl.ecomonline.local\PWAE	C:\00\Documents\01 Americas\Transportation\400000\000\CAD\016.Elec	DRAWN Circle\Photo\11\000.CAD\016.Elec	REVISED TSCTY\94004-44-55.dgn
Default	PLOT SCALE = 50.0000 / in.	CHECKED - R.L.	REVISED -
	PLOT DATE = 10/13/2014	DATE - 06/21/94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

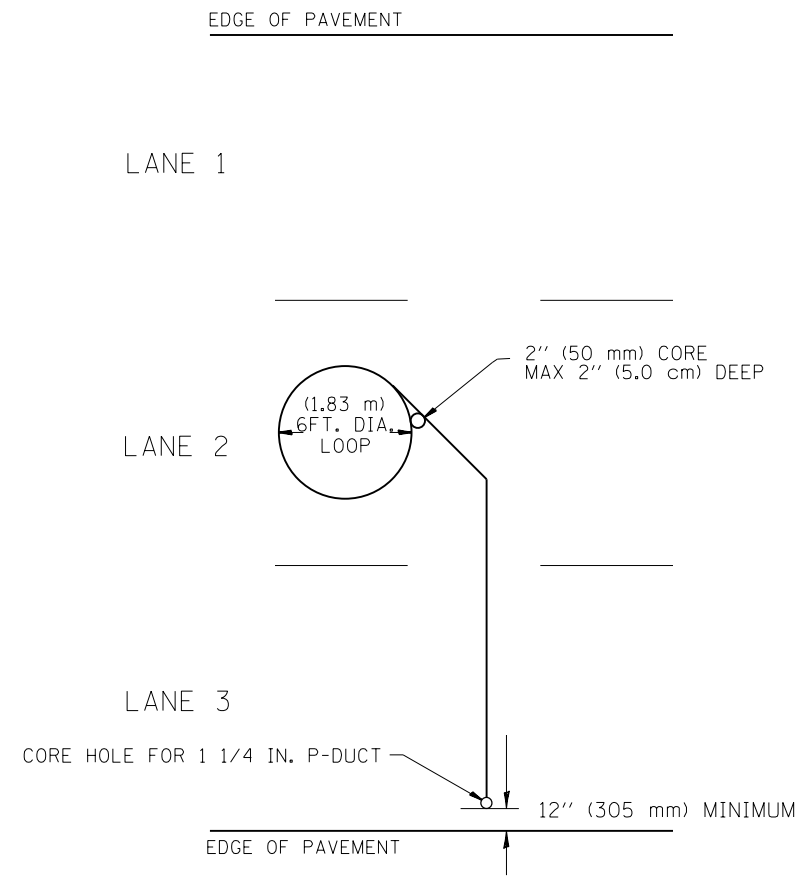
FIELD CRADLE ASSEMBLY			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	242
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

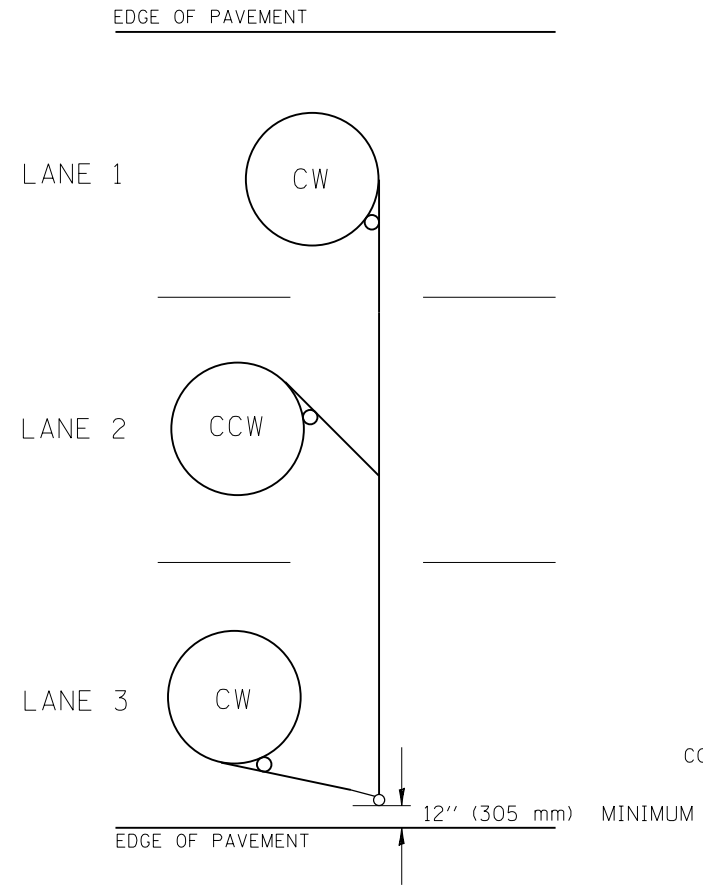
TRAFFIC SYSTEMS CENTER (TY-1TSC-400#7)



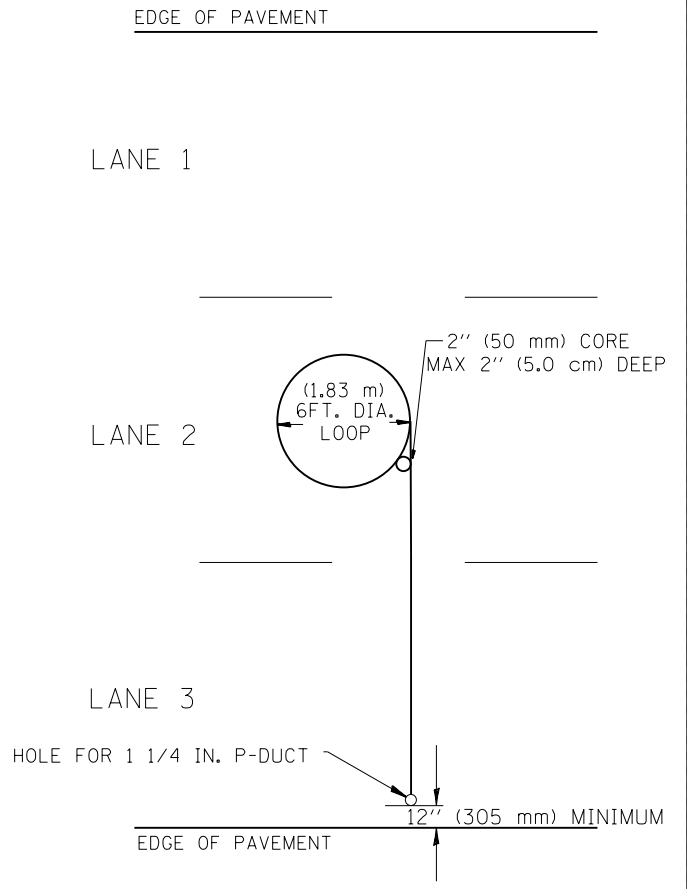
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



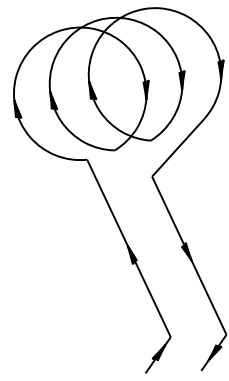
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



WIRING DETAILS

NOTES

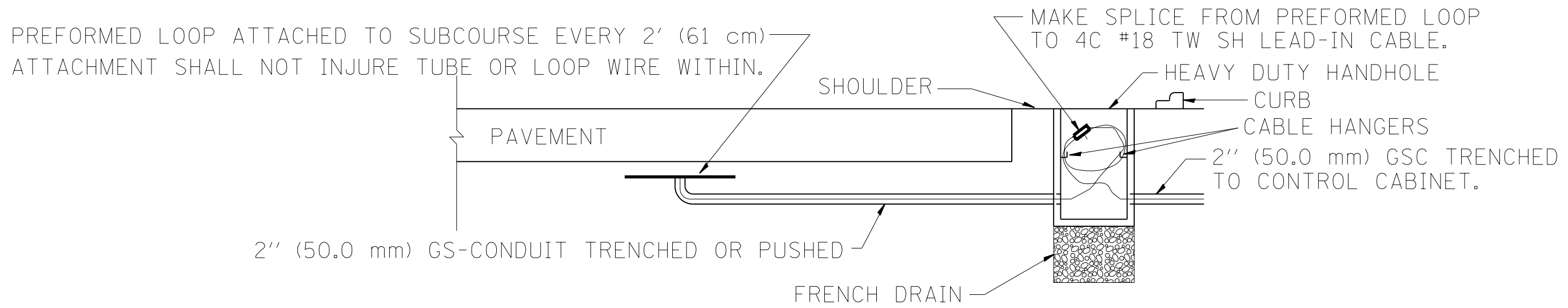
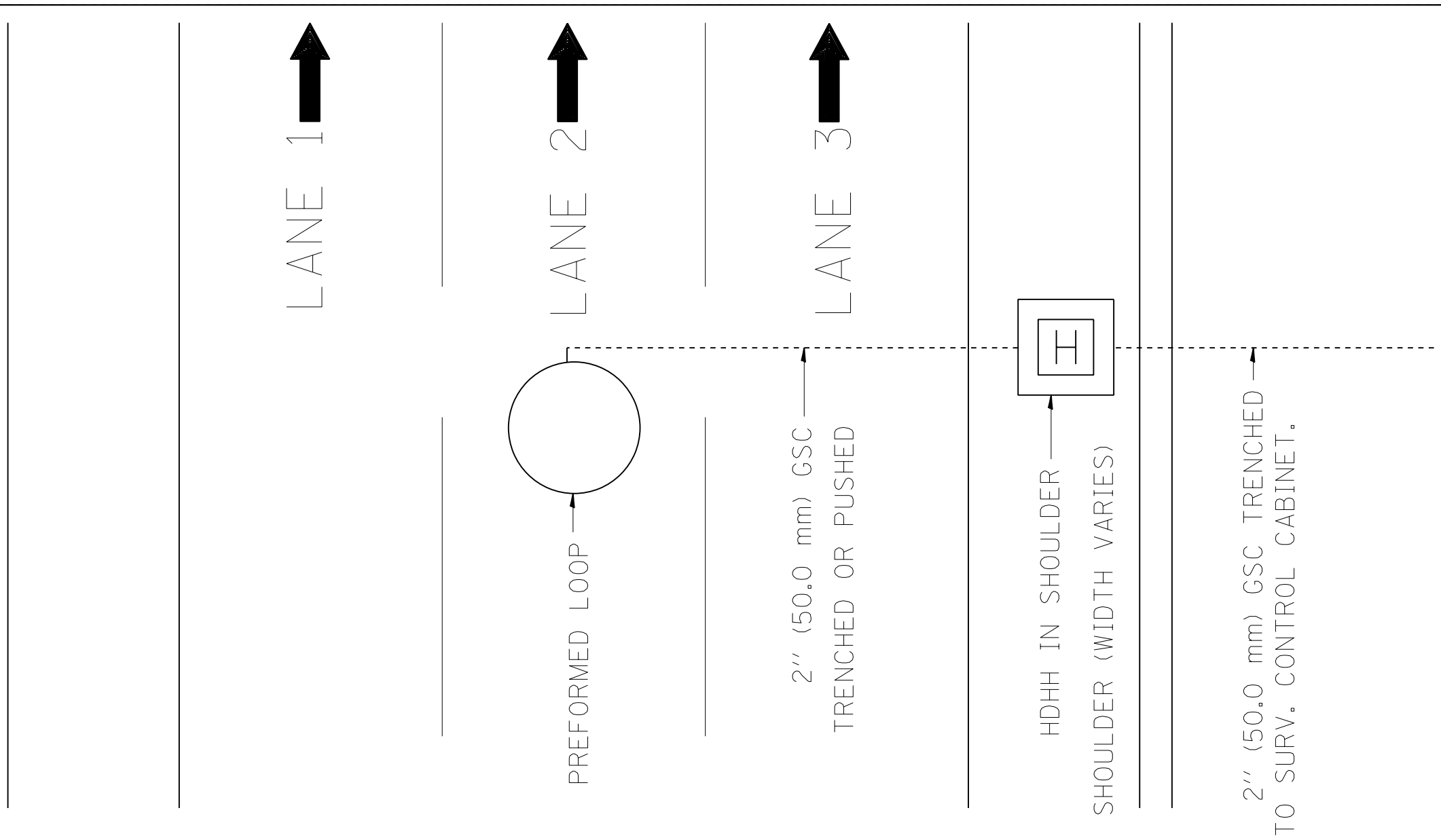
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

FILE NAME =	USER NAME = myersc	DESIGNED - R.L.	REVISED - 6/94
pw:\388039-pwintl\ecomonline.local\pwaec\000\Documents\01 Americas\Transportation\4000\Drawn Circle\PHD\11\000\CAD\016.Elec\REVISED\TY-1TSC-418#12346.dgn		CHECKED - R.L.	REVISED - R.L. 03/2011
	PLOT SCALE = 50.0000' / in.	DATE - 6-22-94	REVISED -
	PLOT DATE = 10/13/2014		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

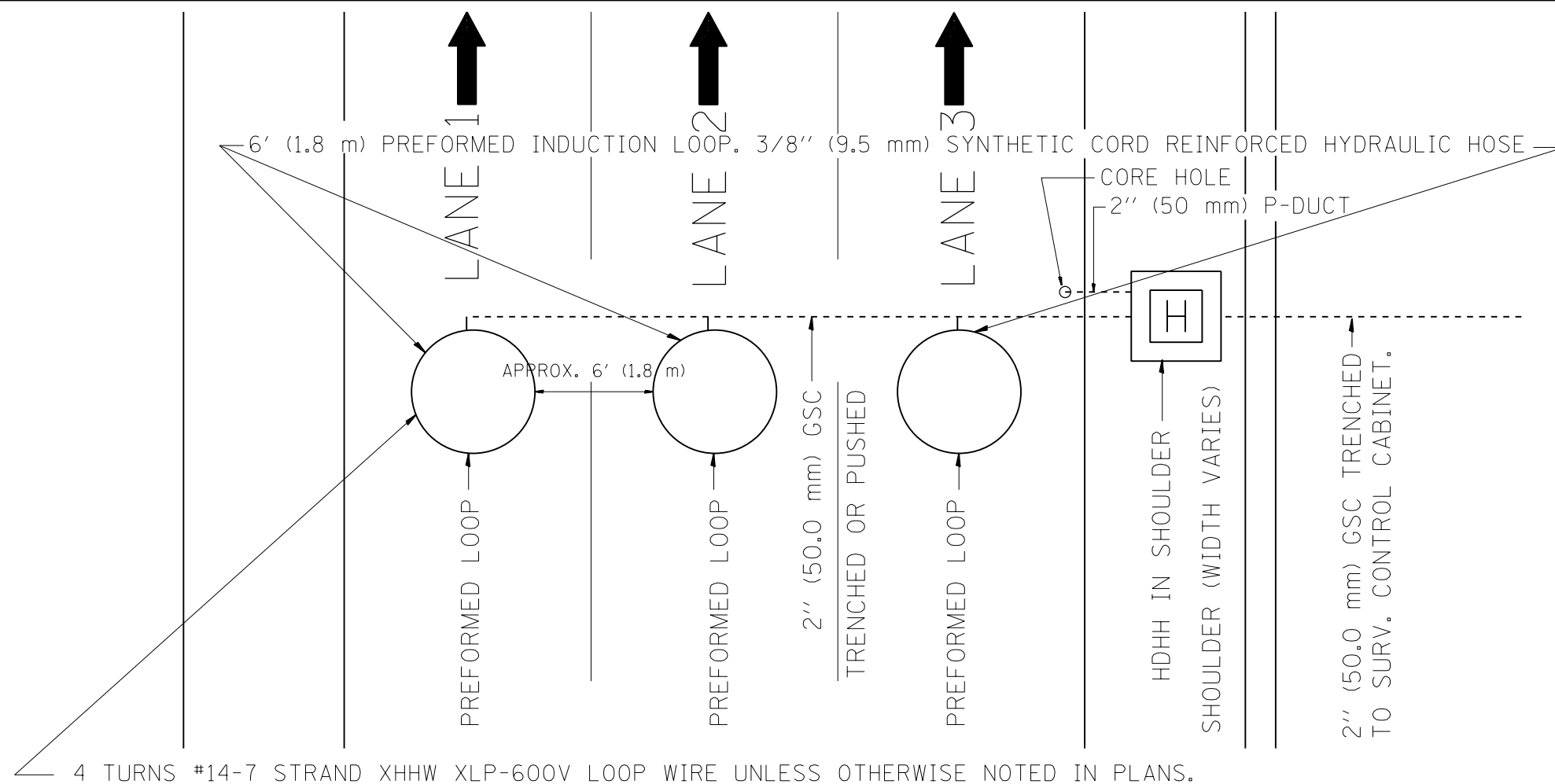
EXISTING ROUND LOOP INSTALLATION			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	243
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

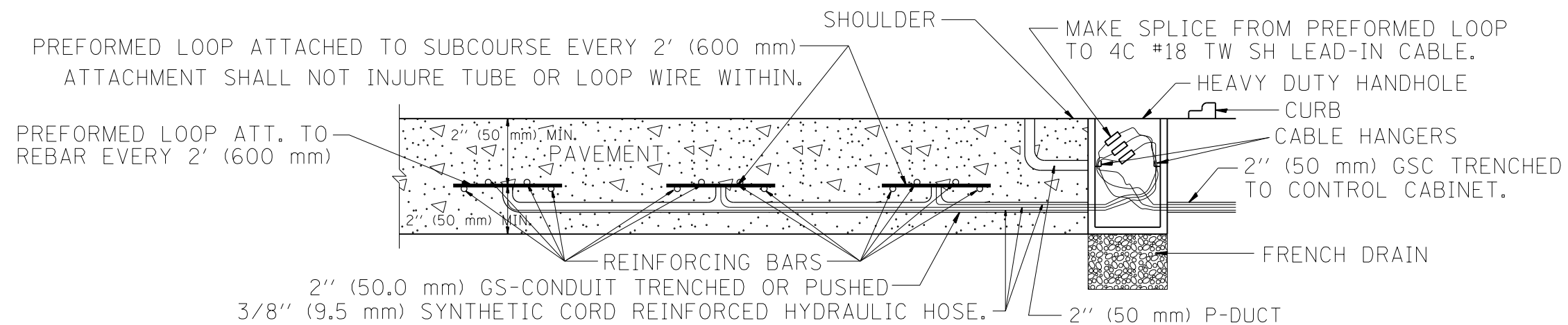


FILE NAME =	USER NAME = myersc	DESIGNED - R.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PREFORMED LOOP TYPICAL INSTALLATION NON-BRIDGE DECK APPLICATION			F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
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Default	PLOT SCALE = 50.0000' / in.	CHECKED - R.L.	REVISED -								CONTRACT NO. 60X61					
	PLOT DATE = 10/13/2014	DATE - 03/18/02	REVISED -								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#10)



TYPICAL 3 LANE COUNT STATION IN NEW CONCRETE PAVEMENT



LOOP INSTALLATION IN NEW CONCRETE PAVEMENT

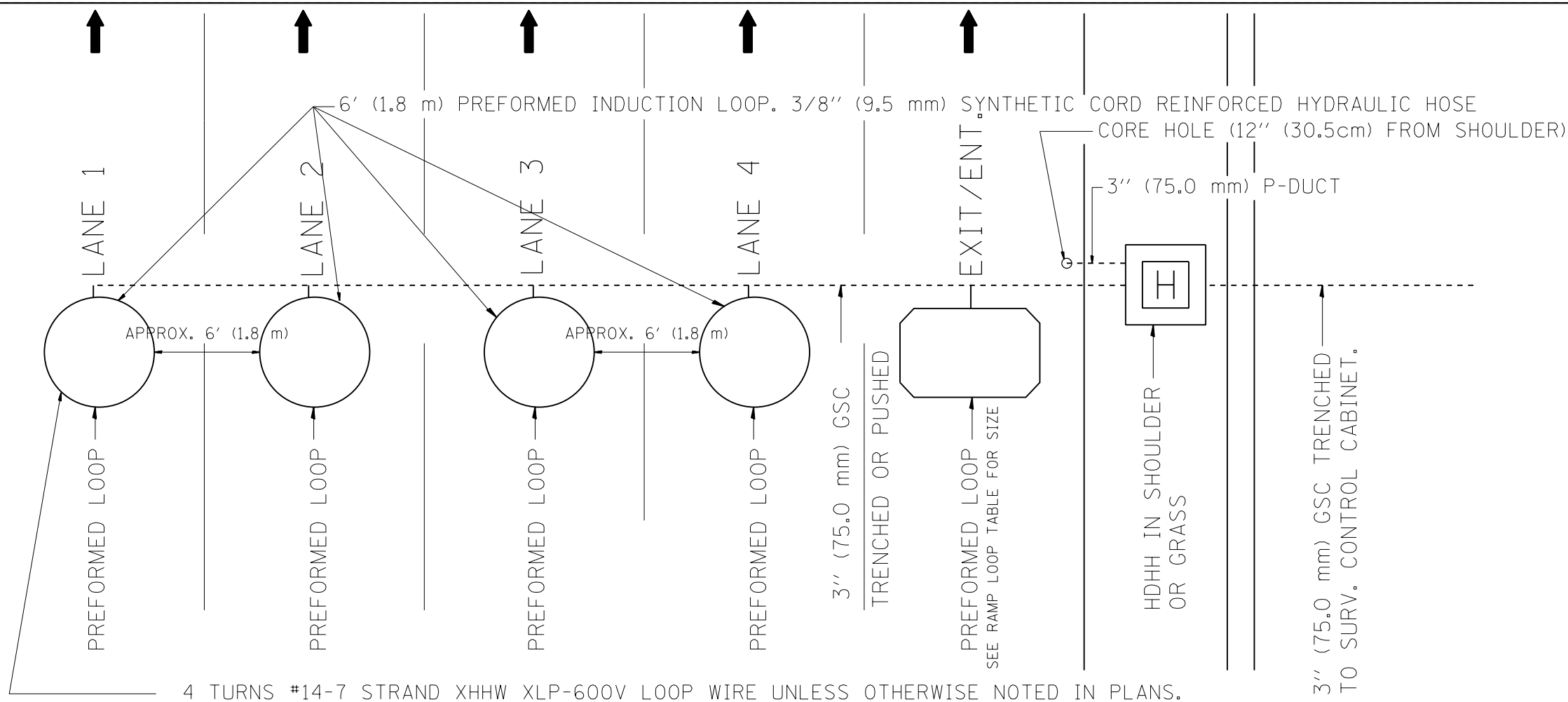
NOTES:

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.
- 4.- FOR LANES 1 AND 3 WRAP LOOPS CLOCKWISE, FOR LANE 2 WRAP LOOP COUNTER CLOCKWISE.
- 5.- FOR COUNT STATIONS WHICH HAVE MORE THAN 3 LANES, A 3" (75 mm) GSC SHALL BE USED.
- 6.- COREHOLE SHALL BE FILLED WITH DUCT SEAL. JOINT SEALER (OZ GEDNEY DOZSEAL 230 OR BETTER) SHALL BE ADDED AFTER DUCT SEAL.

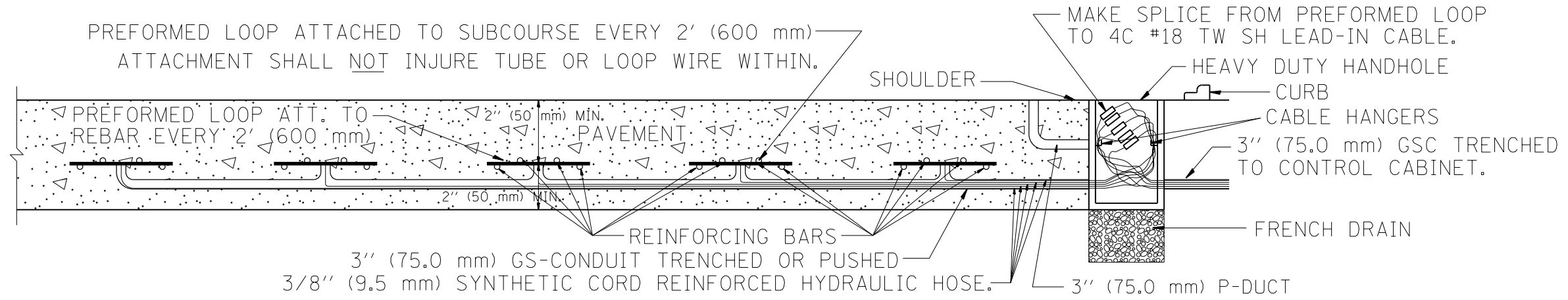
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Default	PLOT SCALE = 50.0000' / in.	CHECKED - J.G.	REVISED -
	PLOT DATE = 10/13/2014	DATE - 06/22/04	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

PREFORMED LOOP TYPICAL INSTALLATION NEW CONCRETE PAVEMENT		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET	OF	SHEETS	STA.	TO	STA.
		90/94/290	2013-077R	COOK	317	245
		CONTRACT NO. 60X61				
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TYPICAL 5 LANE COUNT STATION IN NEW CONCRETE PAVEMENT

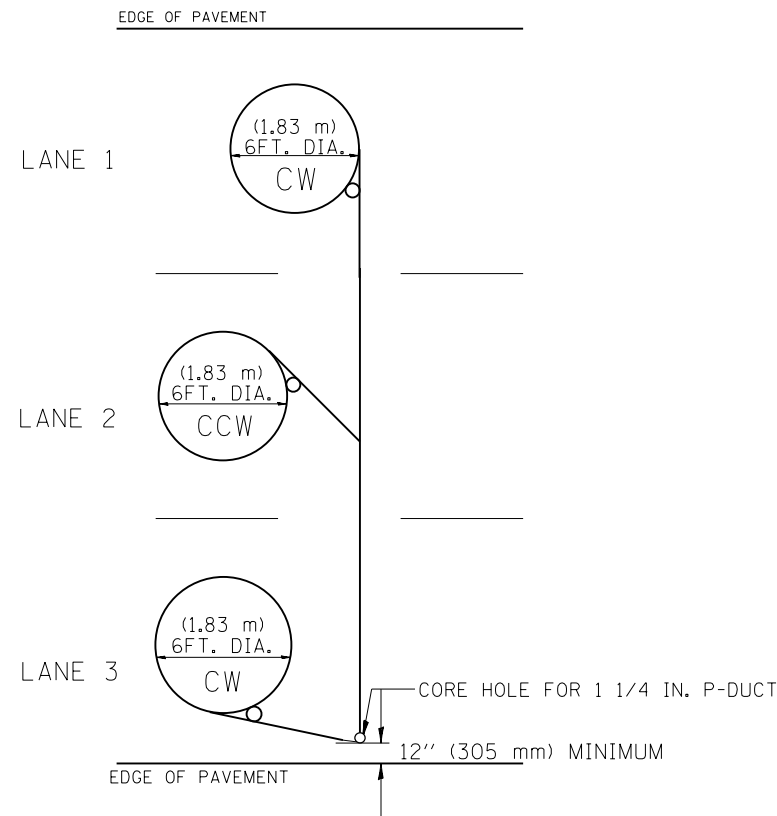


LOOP INSTALLATION IN NEW CONCRETE PAVEMENT

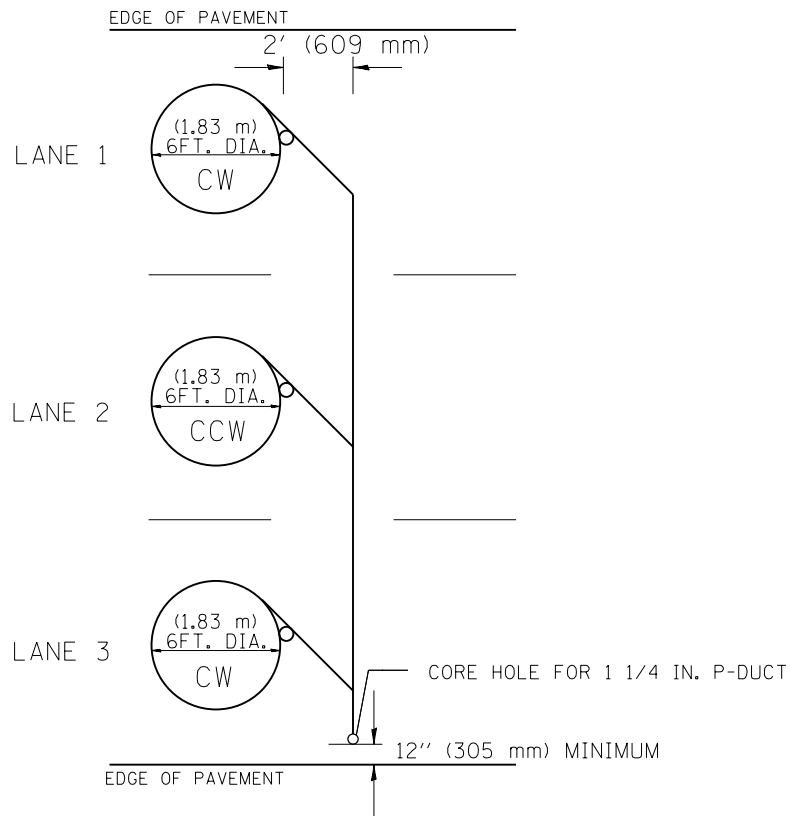
NOTES:

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.
- 4.- FOR LANES 1 AND 3 WRAP LOOPS CLOCKWISE, FOR LANE 2 AND 4 WRAP LOOP COUNTER CLOCKWISE.
- 5.- FOR COUNT STATIONS WHICH HAVE MORE THAN 3 LANES, A 3" (75 mm) GSC SHALL BE USED.
- 6.- COREHOLE SHALL BE FILLED WITH DUCT SEAL. JOINT SEALER (OZ GEDNEY DOZSEAL 230 OR BETTER) SHALL BE ADDED AFTER DUCT SEAL.

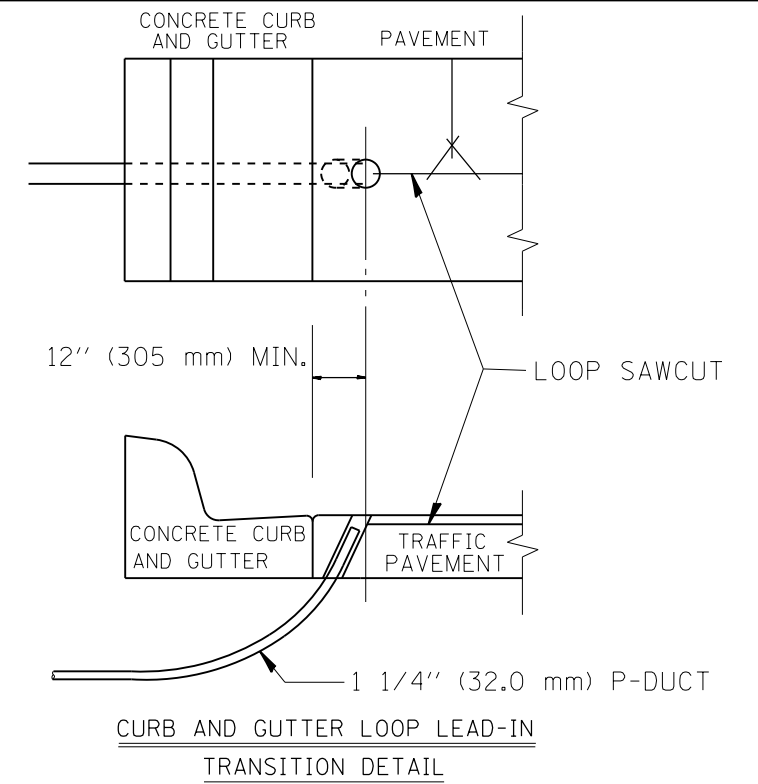
FILE NAME =	USER NAME = myersc	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PREFORMED LOOP (5 LANES) TYPICAL INSTALLATION NEW CONCRETE PAVEMENT	F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\388039-pwintl\ecomonline.local\PWAE	COM00\Documents\01 Americas\Transportation\	DRAWN Circle\Phd\MI\000.CAD\016.Elec	REVISED -			90/94/290	2013-077R	COOK	317	246
Default	PLOT SCALE = 50.0000' / in.	CHECKED - J.G.	REVISED -			CONTRACT NO. 60X61		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



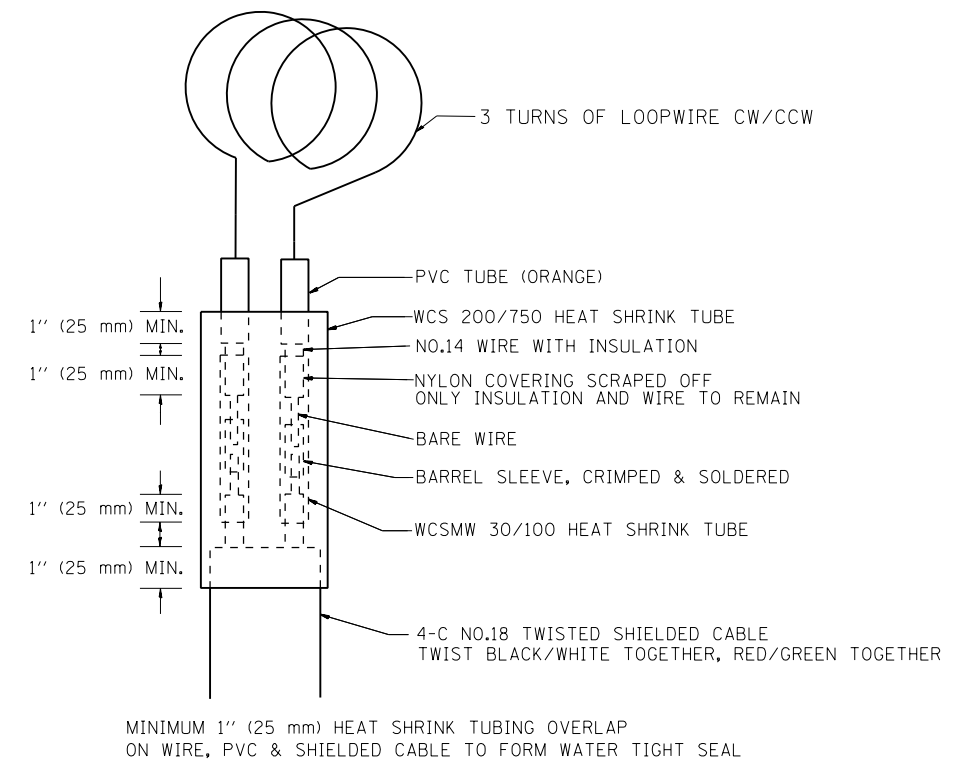
TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



CURB AND GUTTER LOOP LEAD-IN
TRANSITION DETAIL

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.



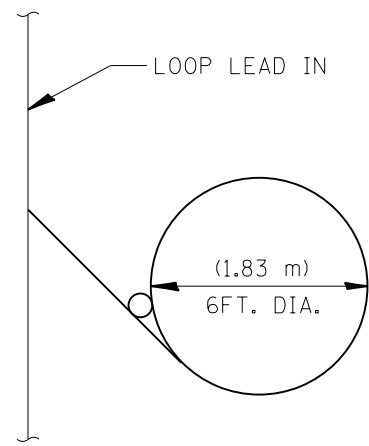
LOOP SPLICING REQUIREMENTS

FILE NAME =	USER NAME = myersc	DESIGNED - R.L.	REVISED - 6/94
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	PLOT SCALE = 50.0000' / in.	CHECKED - R.L.	REVISED - R.L. 03/2011
	PLOT DATE = 10/13/2014	DATE - 6-22-94	REVISED -

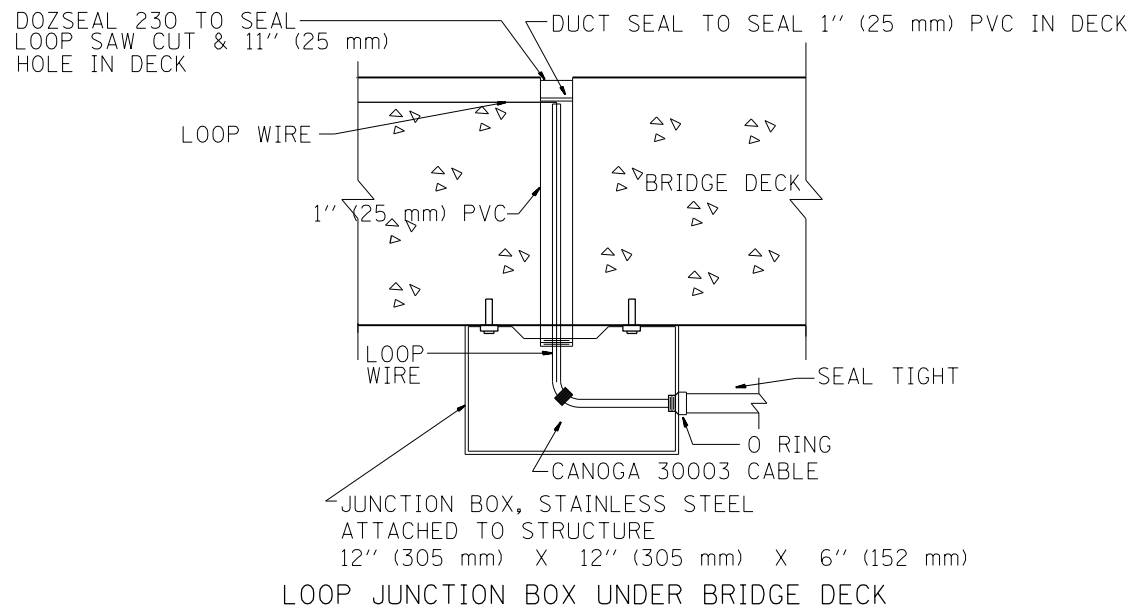
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.
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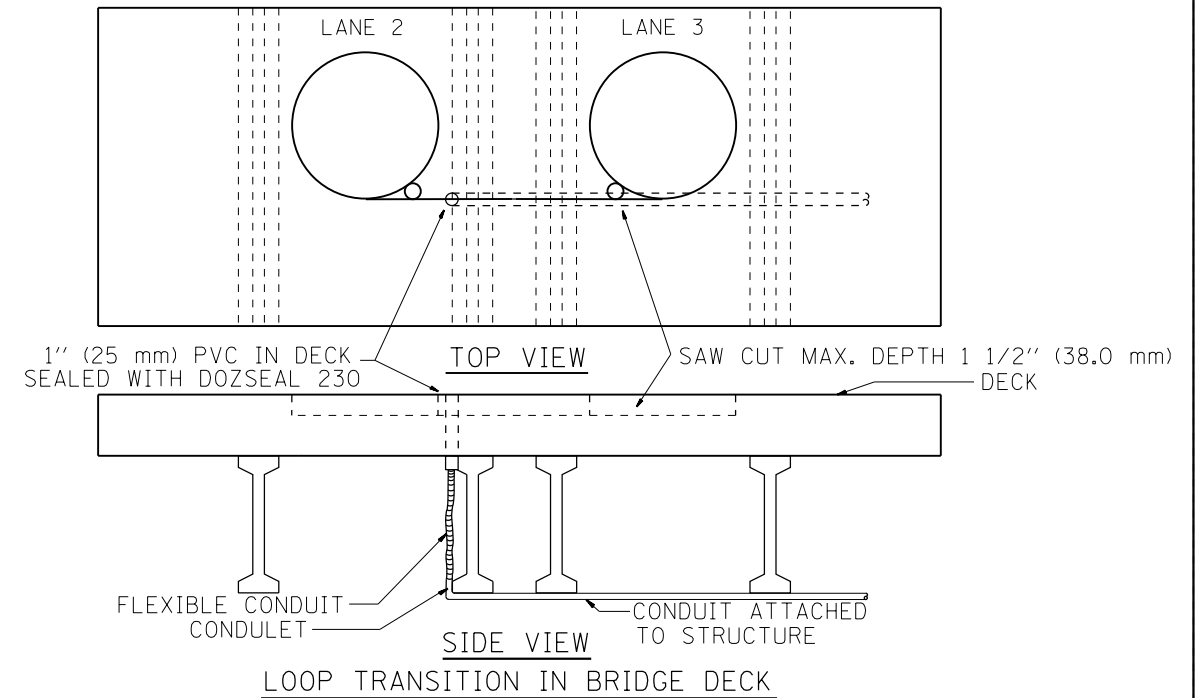
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	247
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



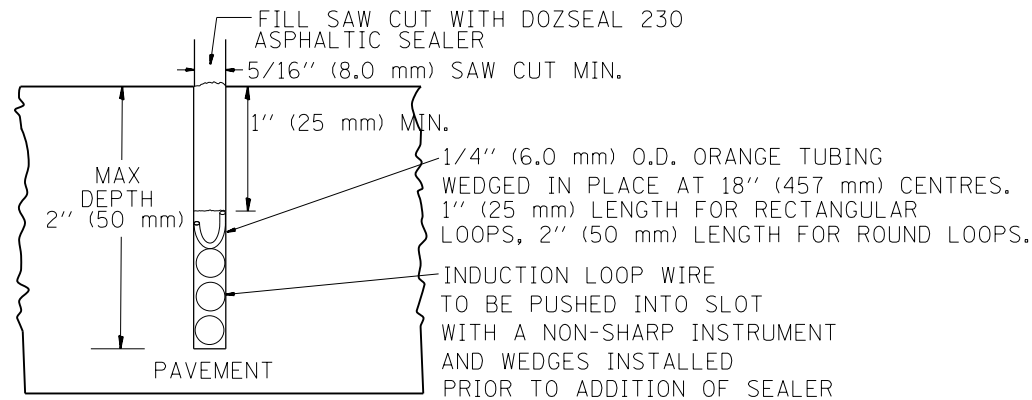
TYPICAL LOOP SAWCUT LAYOUT



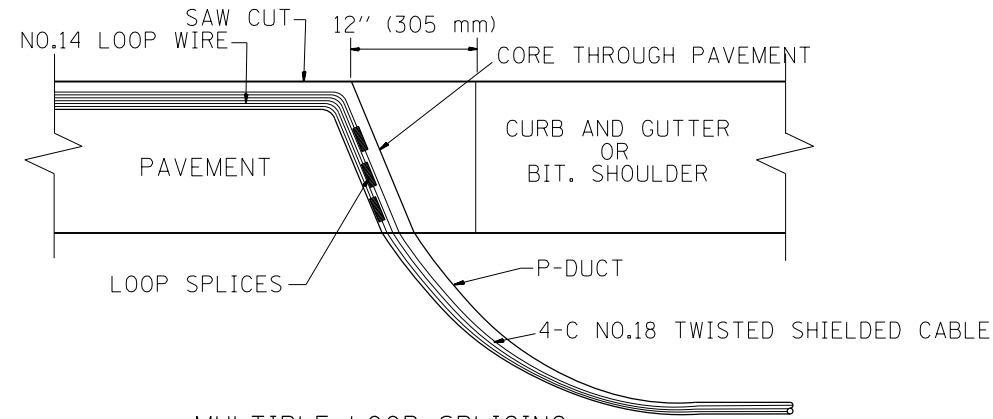
LOOP JUNCTION BOX UNDER BRIDGE DECK



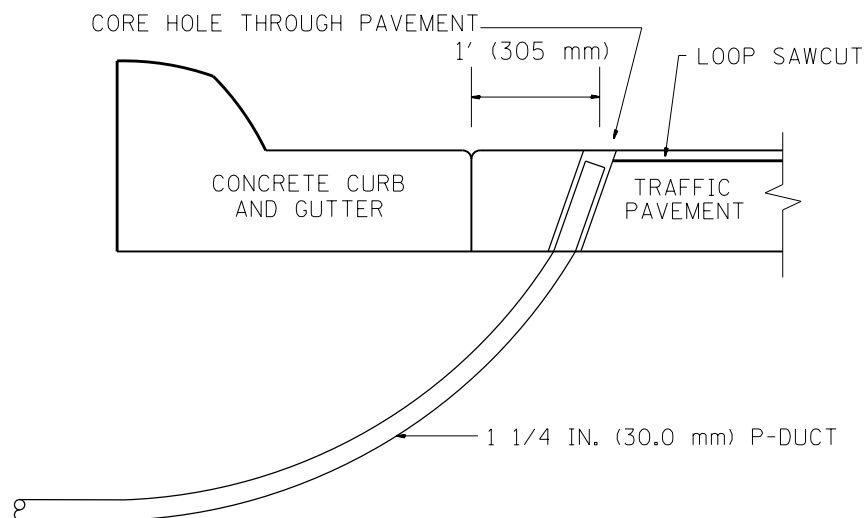
LOOP TRANSITION IN BRIDGE DECK



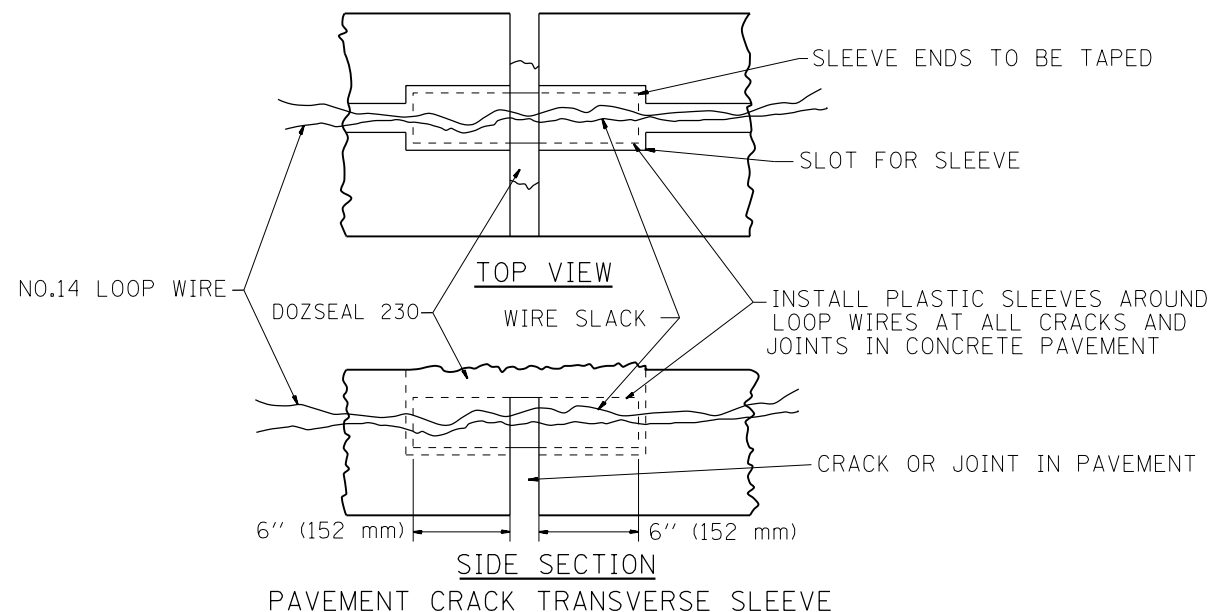
LOOP CROSS SECTION IN PAVEMENT



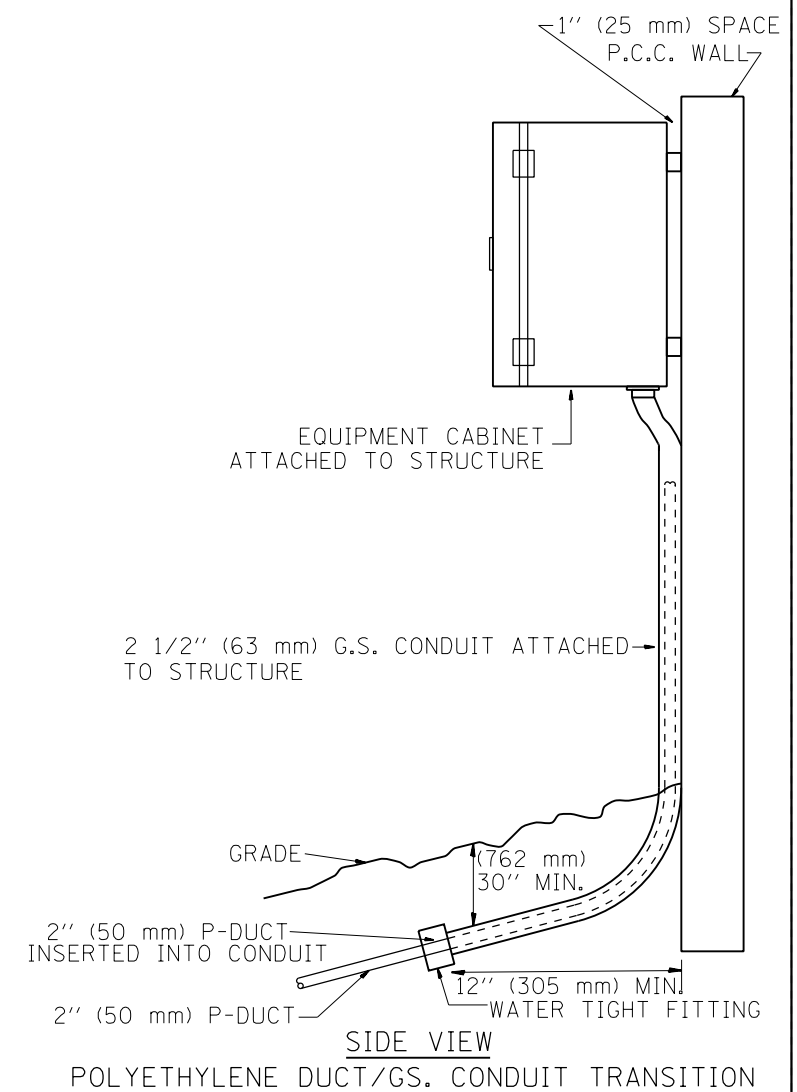
MULTIPLE LOOP SPLICING



SIDE SECTION LOOP LEAD-IN TRANSITION DETAIL



PAVEMENT CRACK TRANSVERSE SLEEVE



POLYETHYLENE DUCT/GS. CONDUIT TRANSITION

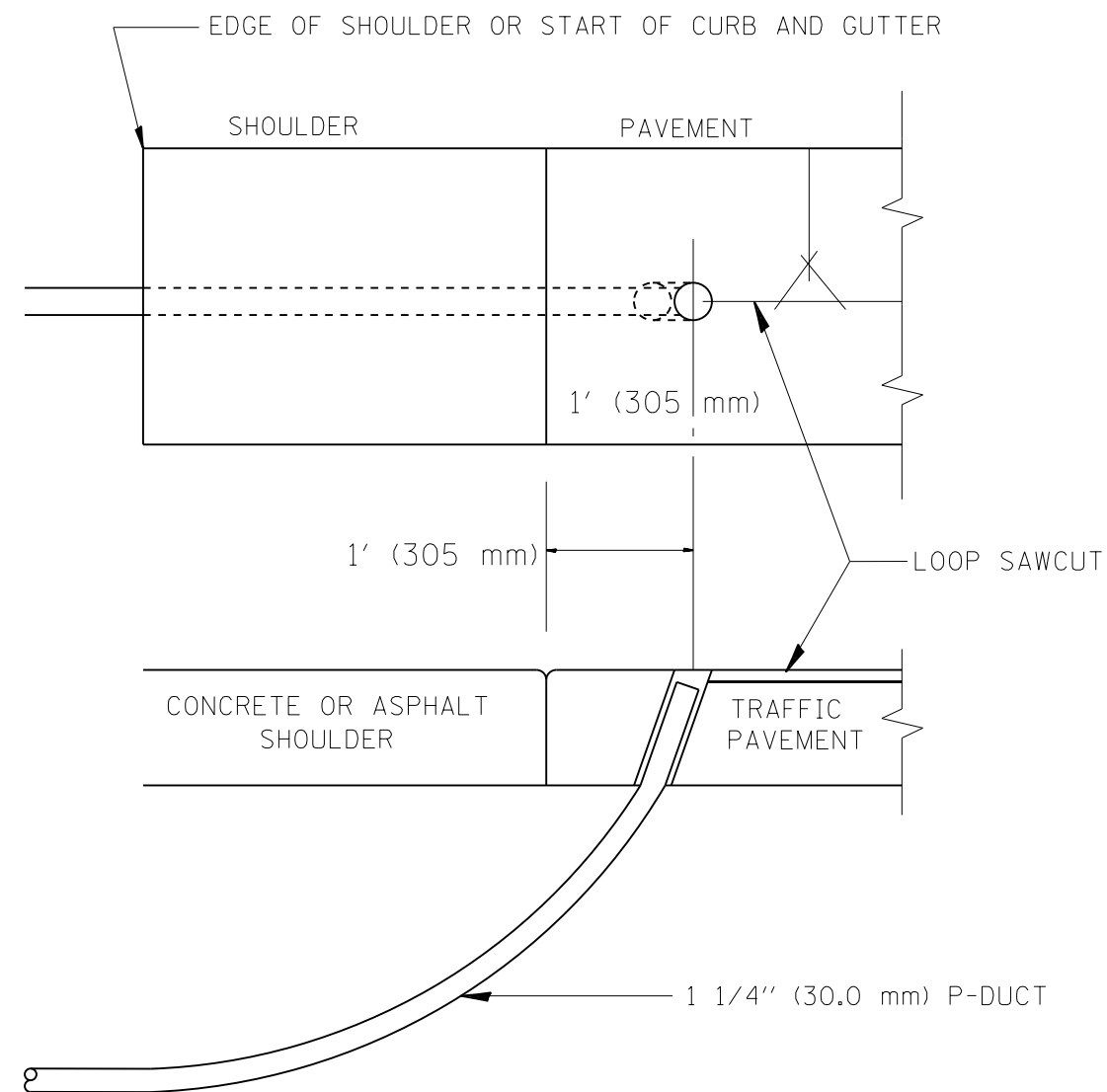
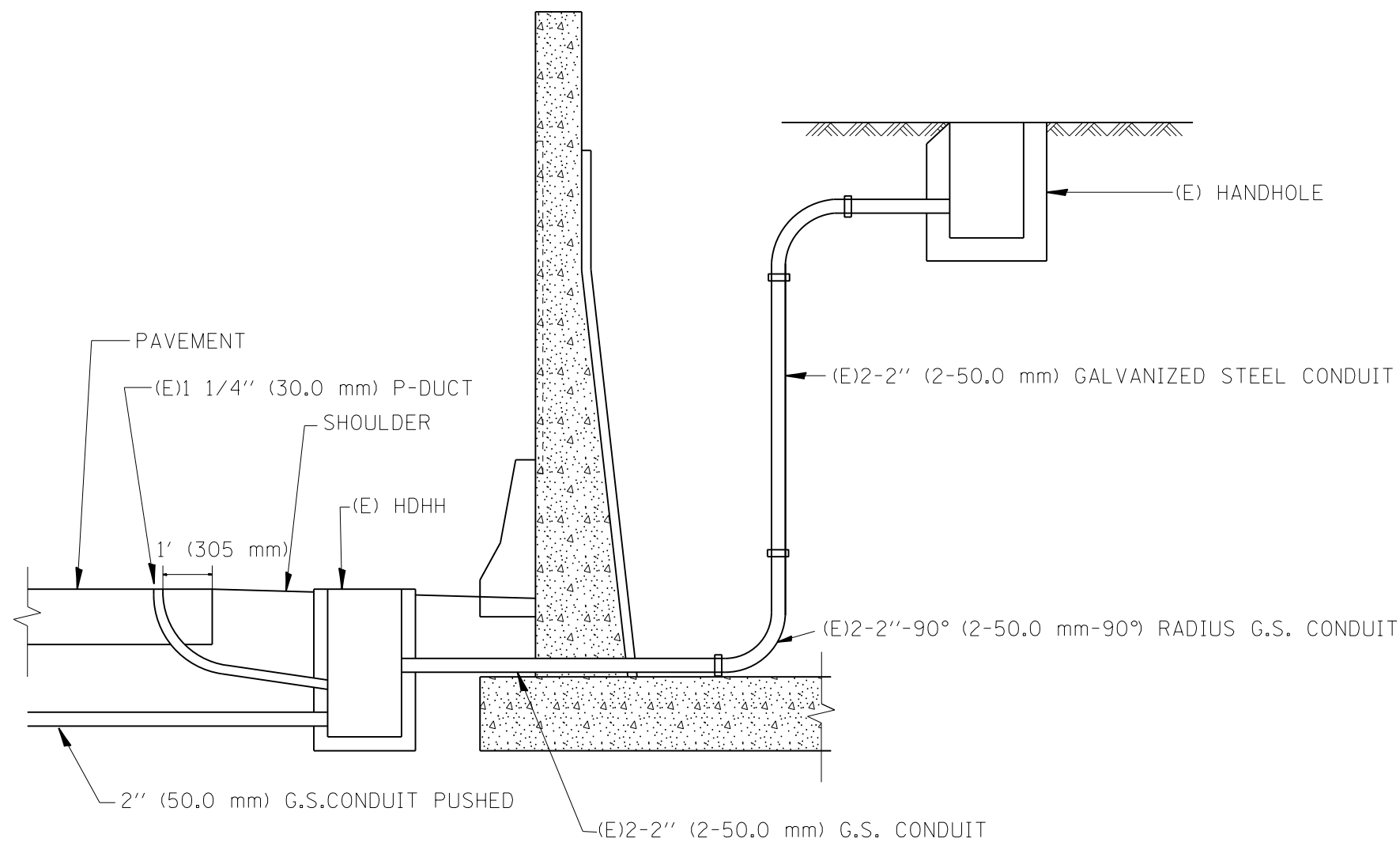
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		DATE - 06/22/94	REVISED - 10/96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

LOOP, CONDUIT & DUCT
INSTALLATION DETAILS

SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.I. R.E. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 248
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SHOULDER LOOP LEAD-IN
TRANSITION DETAIL

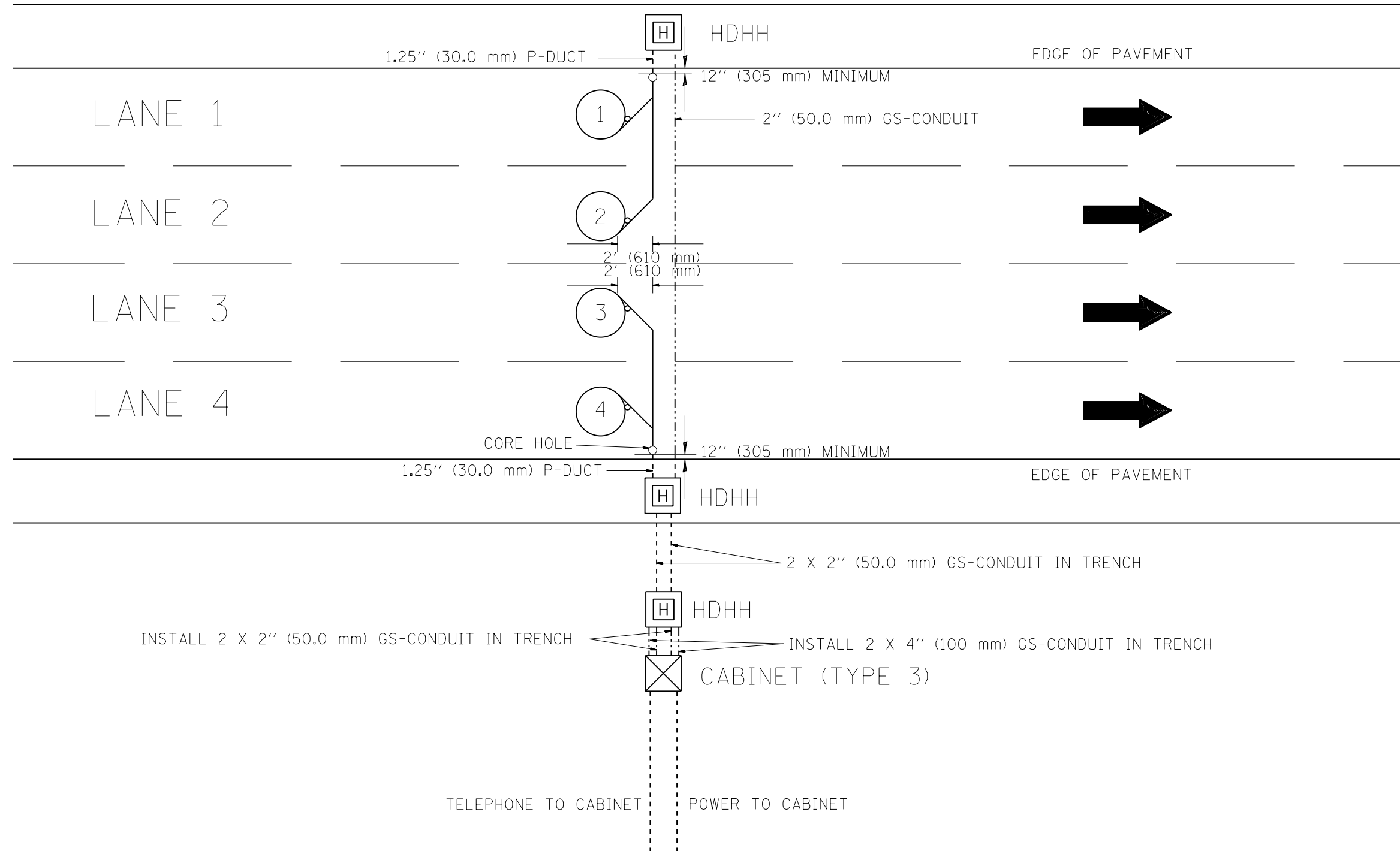
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	PLOT DATE = 10/13/2014	DATE - 6-22-94	REVISED - 10/96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

TYPICAL INDUCTION LOOP LEAD-IN TRANSITION DIAGRAMS			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	249
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NOTE: ALL MAIN LINE LOOPS ARE ROUND 6' DIA. (1.83 m)



NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

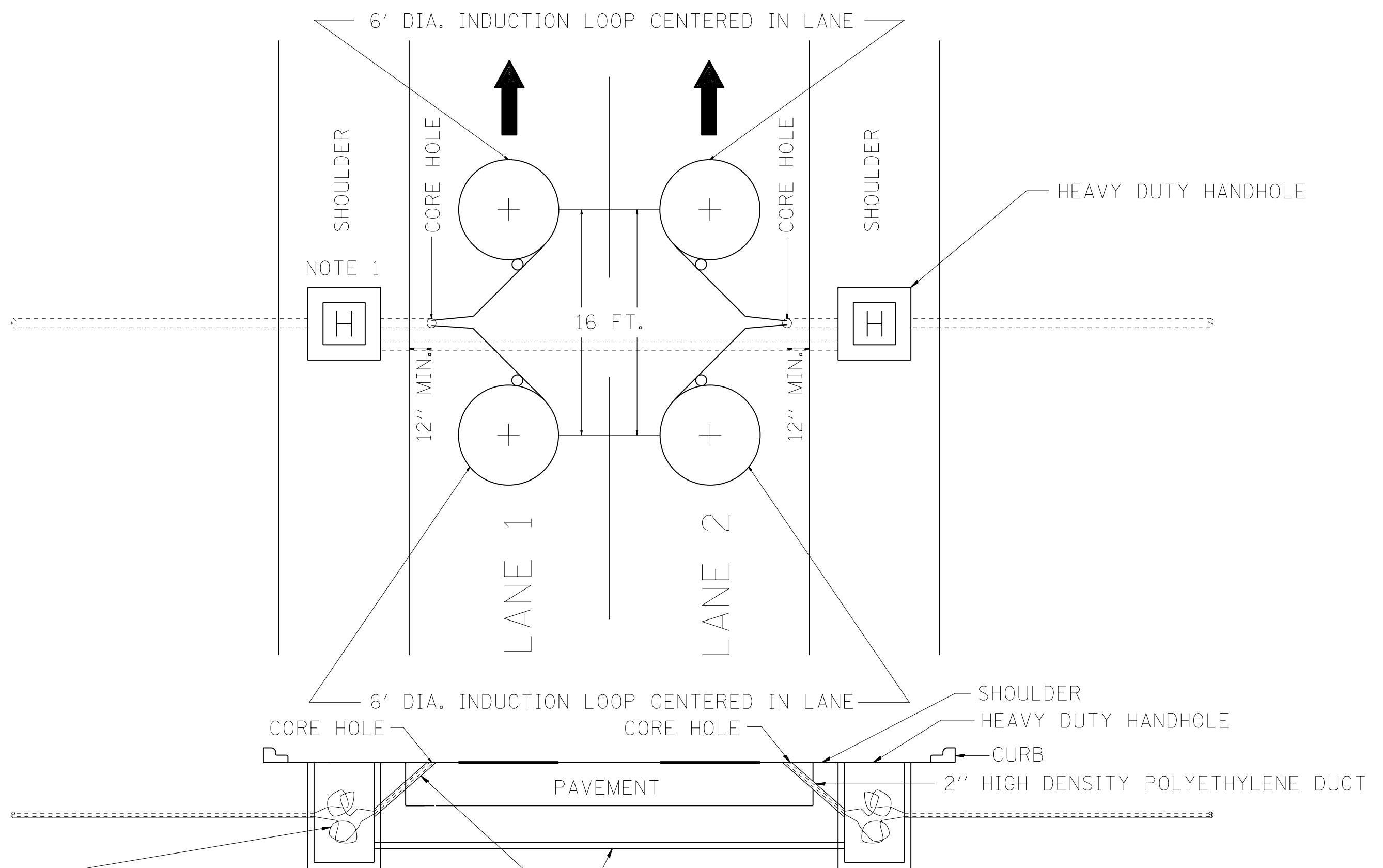
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	PLOT DATE = 10/13/2014	DATE - 6-27-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

NEW CONSTRUCTION ROUND INDUCTION LOOP TYPICAL INSTALLATION			
SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	250
CONTRACT NO. 60X61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#6)

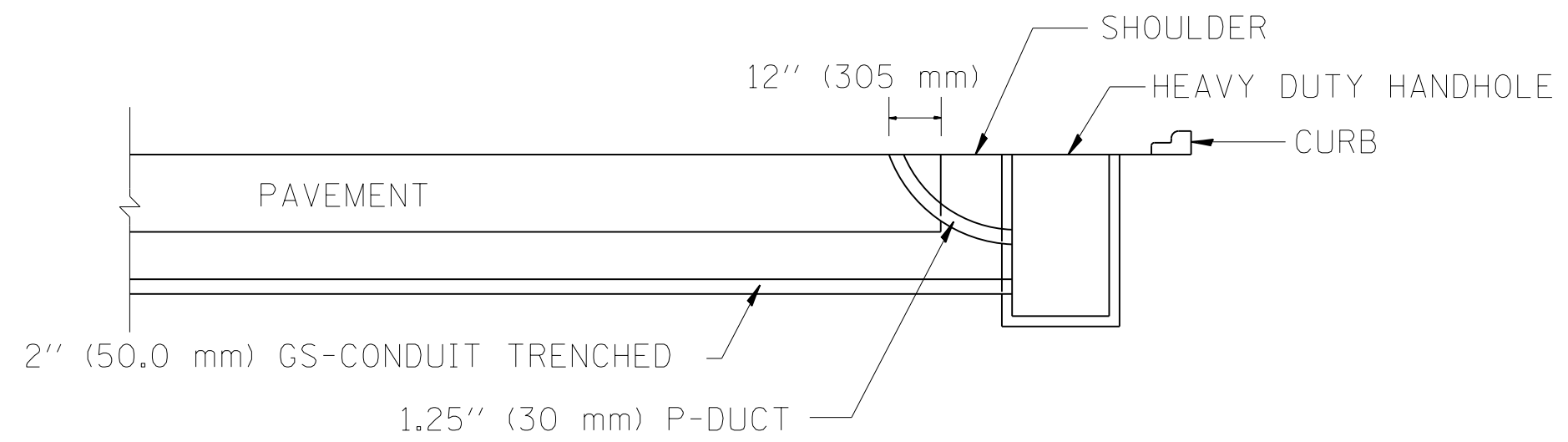
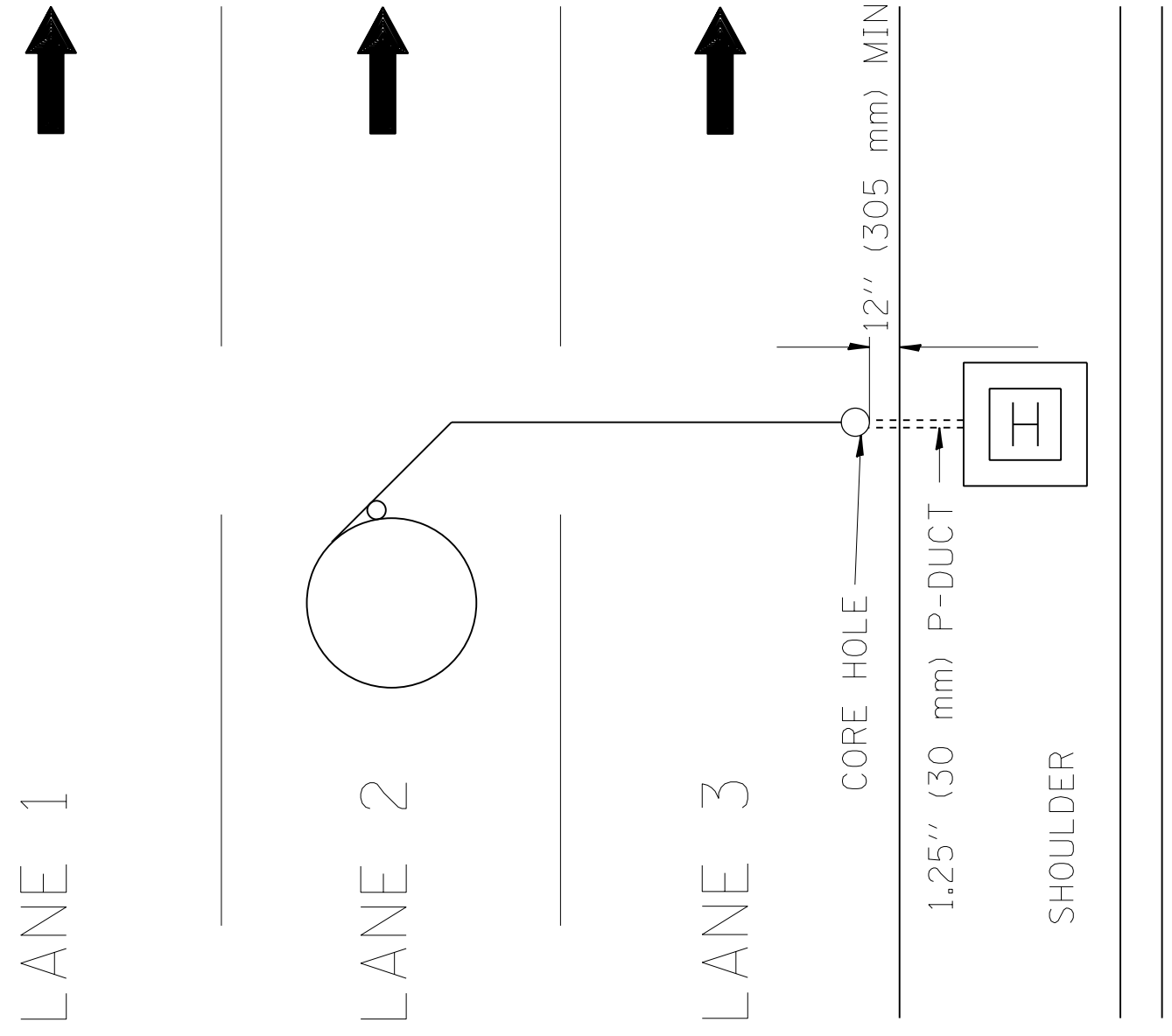


LOOP WIRE IF > 150FT. TO CABINET SPLICE
4C #18 TWISTED SHIELDED TO LOOP WIRE.

2" GALVANIZED STEEL CONDUIT PUSHED OR DIRECTIONAL BORED
2" HIGH DENSITY POLYETHYLENE DUCT

NOTE 1: IF HDHH NOT POSSIBLE THEN LANE 1 LOOPS USE SAME CORE HOLE AS LANE 2 LOOPS. IN THE OTHER DIRECTION,
LANE 2 LOOPS WILL USE SAME CORE HOLE AS LANE 1 LOOPS.

FILE NAME =	USER NAME = myersc	DESIGNED - J.G.	REVISED - 07/27/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TRAFFIC SURVEILLANCE 2 LANE SPEED, COUNT, CLASSIFICATION STATION		F.A.I. R.T.E. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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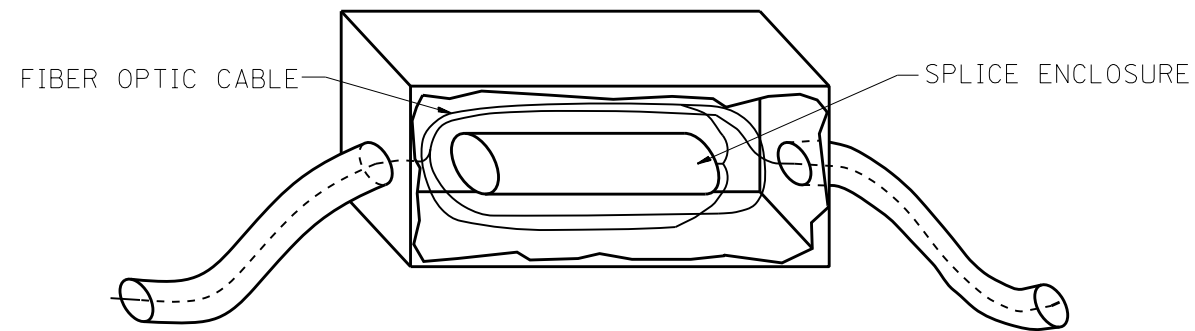
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	PLOT DATE = 10/13/2014	DATE - 11/7/95	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

DIVE HOLE DUCT SYSTEM

SCALE: NONE SHEET OF SHEETS STA. TO STA.

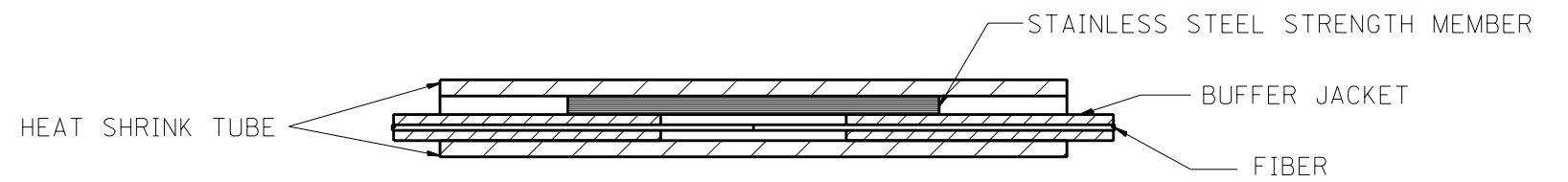
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90/94/290	2013-077R	COOK	317	252
CONTRACT NO. 60X61				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



FIBER OPTIC CABLE

SPLICE ENCLOSURE

JUNCTION BOX DETAIL



HEAT SHRINK TUBE

STAINLESS STEEL STRENGTH MEMBER

BUFFER JACKET

FIBER

FIBER SPLICE DETAIL

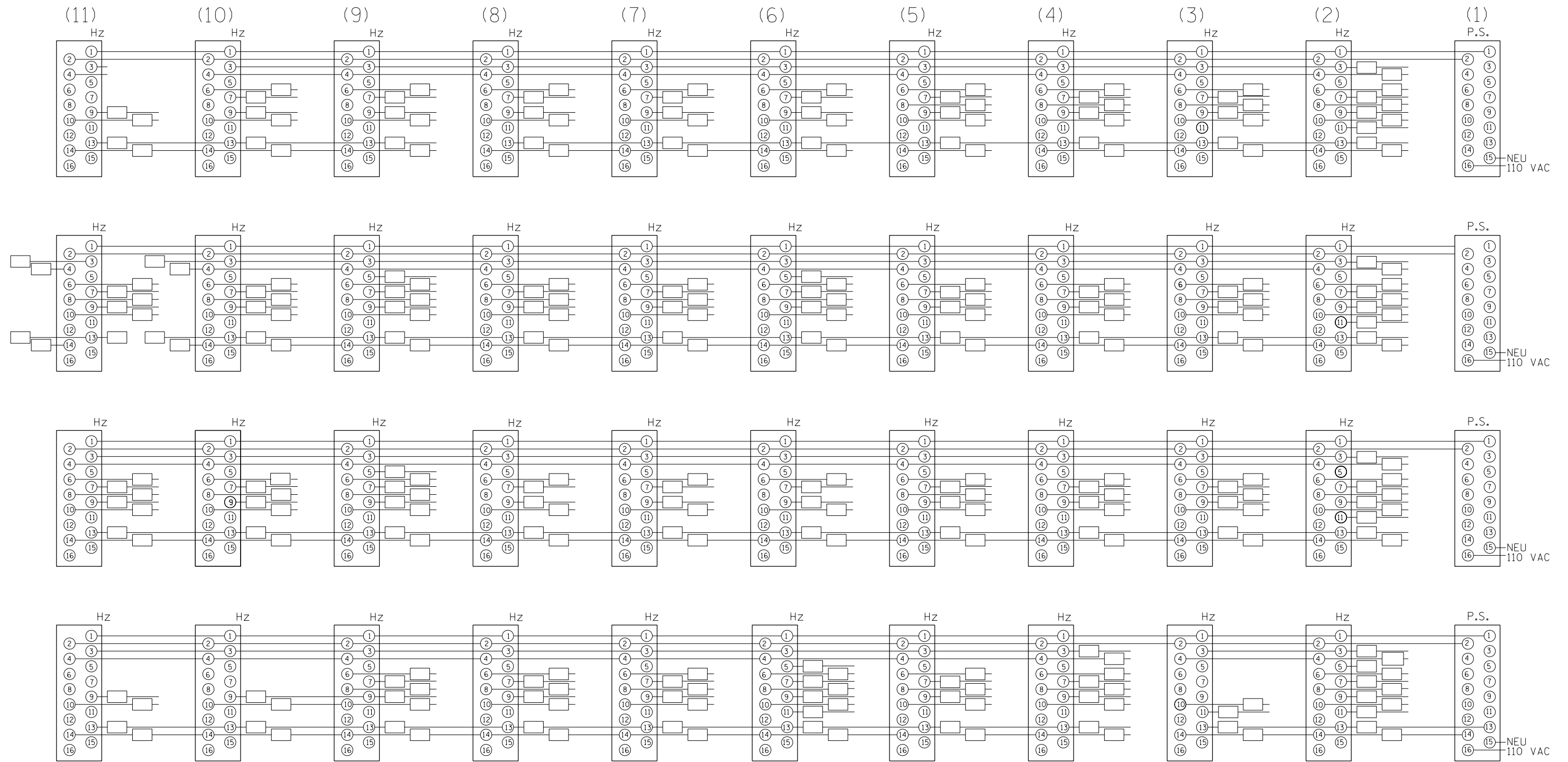
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	PLOT DATE = 10/13/2014	DATE - 04/26/93	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC
WIRING DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 253
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
CONTRACT NO. 60X61				



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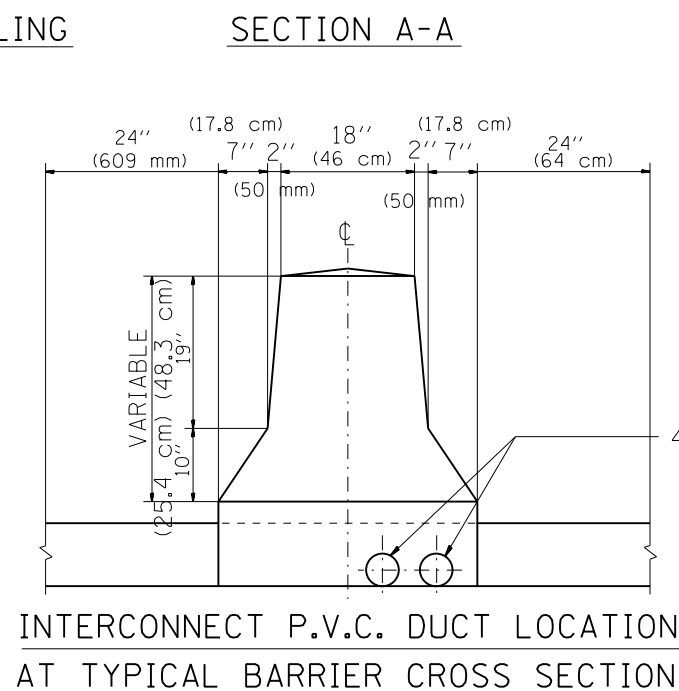
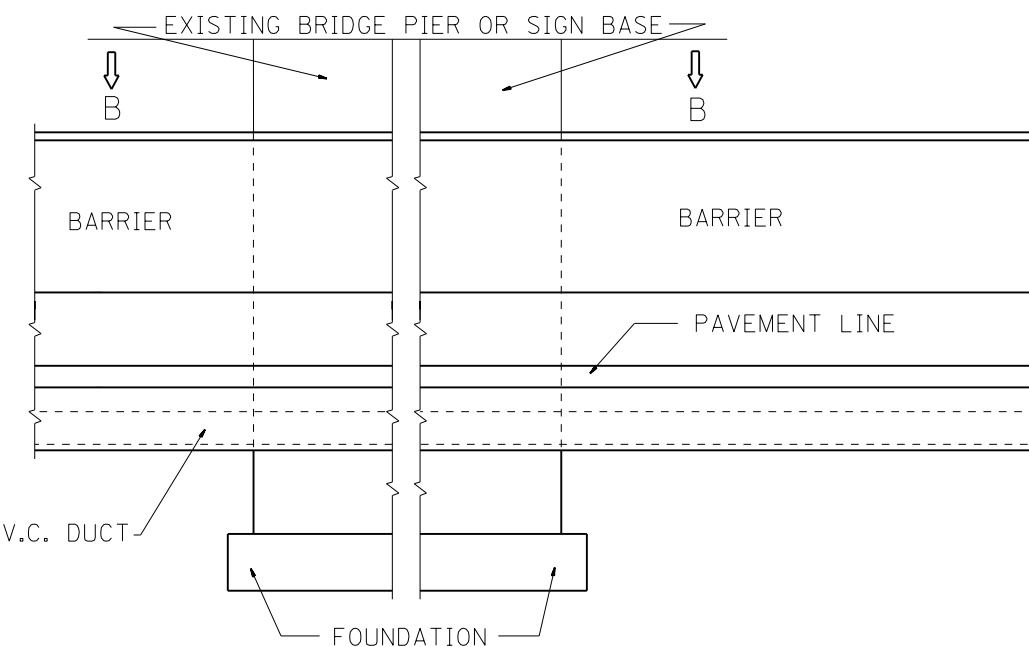
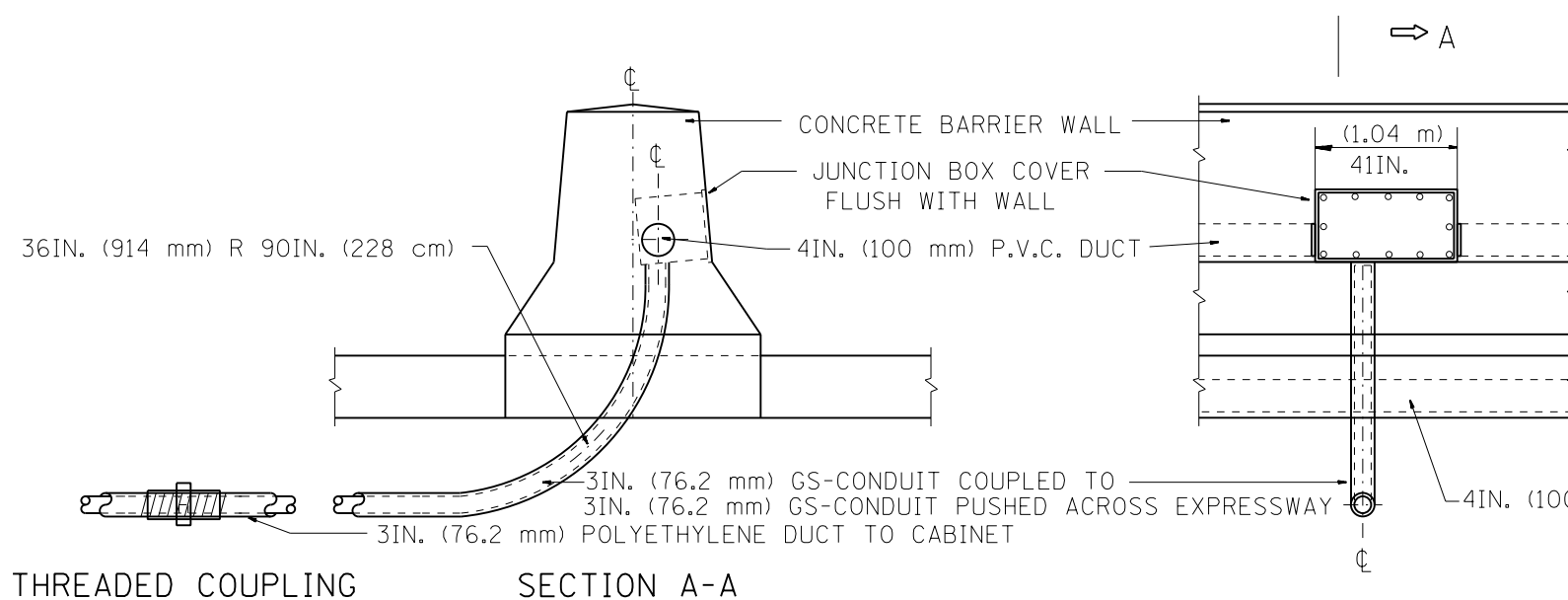
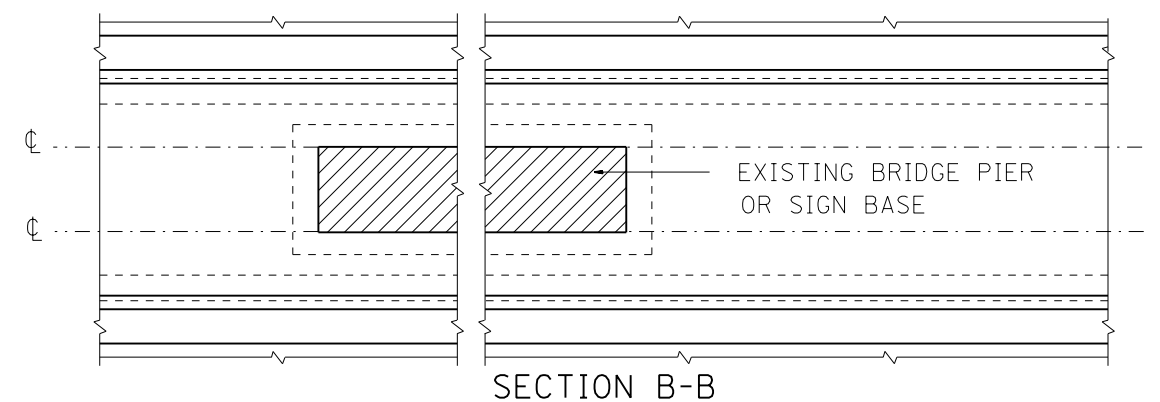
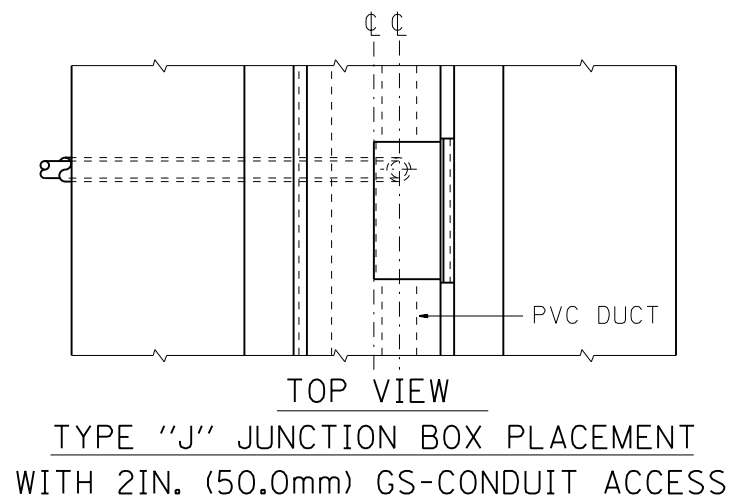
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

TONE ENCLOSURE
(BUILDING)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	254
CONTRACT NO. 60X61				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

TRAFFIC SYSTEMS CENTER (TY-1TSC-663#14)



FRONT VIEW (SEE NOTE NO. 1)
TYPE "J" JUNCTION BOX PLACEMENT
WITH 2IN. (50.0 mm) GS-CONDUIT ACCESS

FRONT VIEW
BARRIER WALL AT BRIDGE PIER
P.V.C. DUCT PLACEMENT

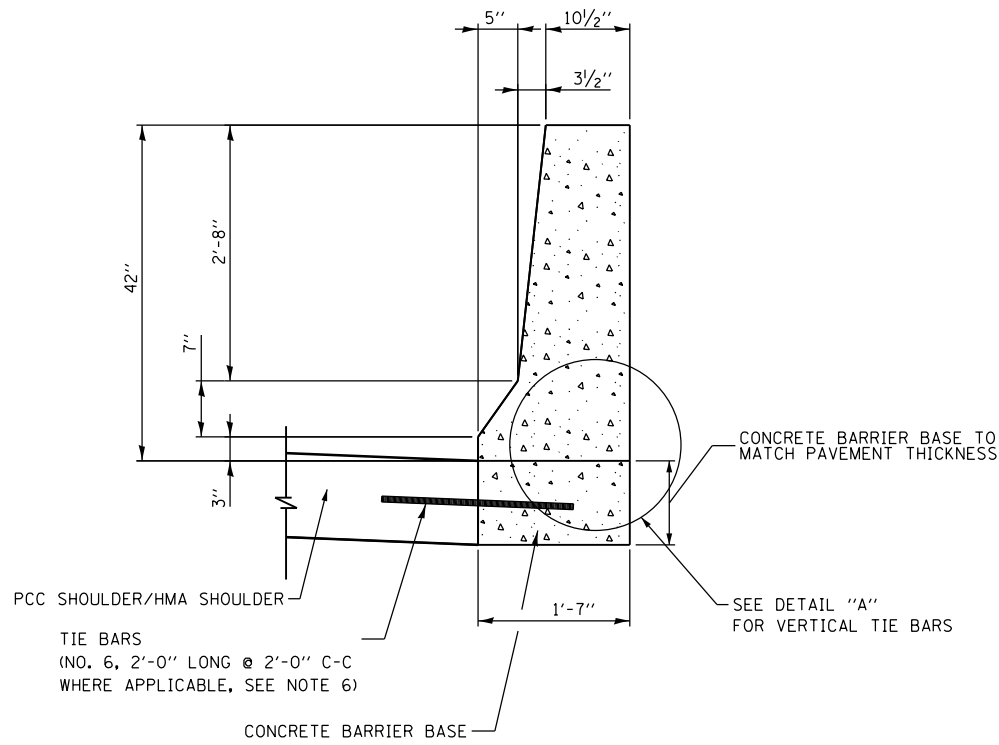
BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15FT. (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J" AND FOR A SMOOTH TRANSITION OF 4IN. (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

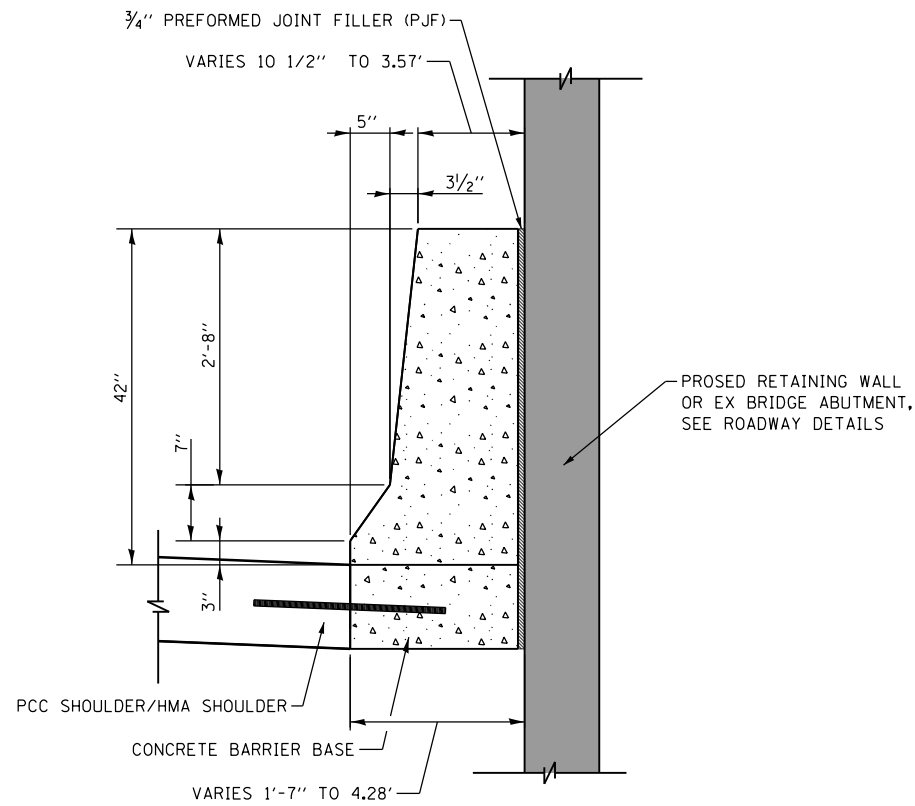
TYPE "J" JUNCTION BOX & P.V.C. DUCT PLACEMENT		F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. TO STA.		CONTRACT NO. 60X61				

FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
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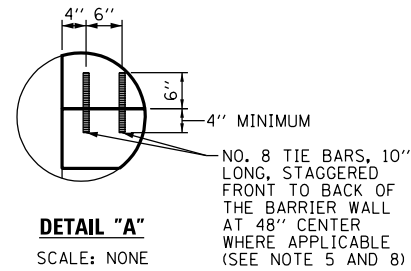
**DETAILS OF CONCRETE BARRIER,
SINGLE FACE, 42 INCH HEIGHT**

SCALE: NONE



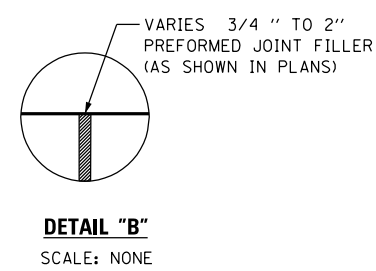
**DETAILS OF CONCRETE BARRIER, VARIABLE CROSS SECTION,
42 INCH HEIGHT AT PROPOSED STRUCTURE**

SCALE: NONE



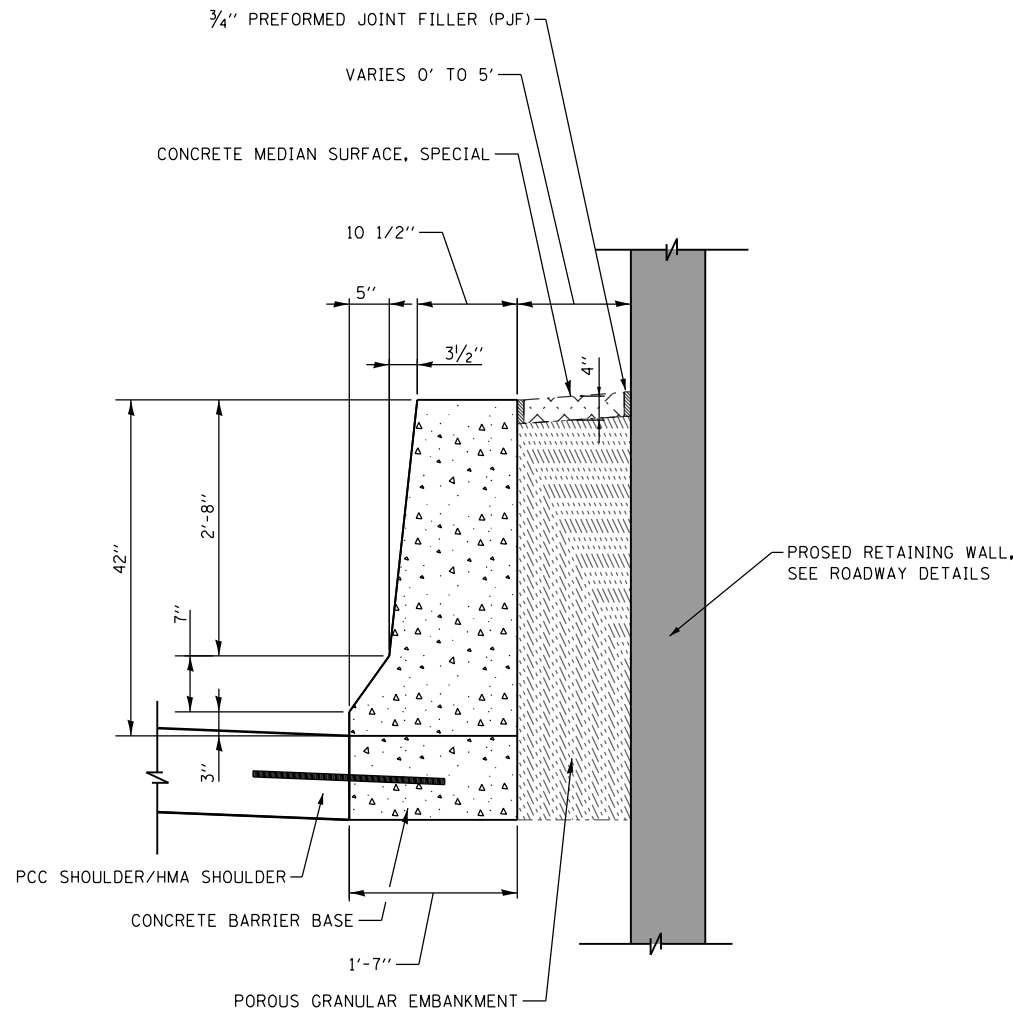
DETAIL "A"

SCALE: NONE



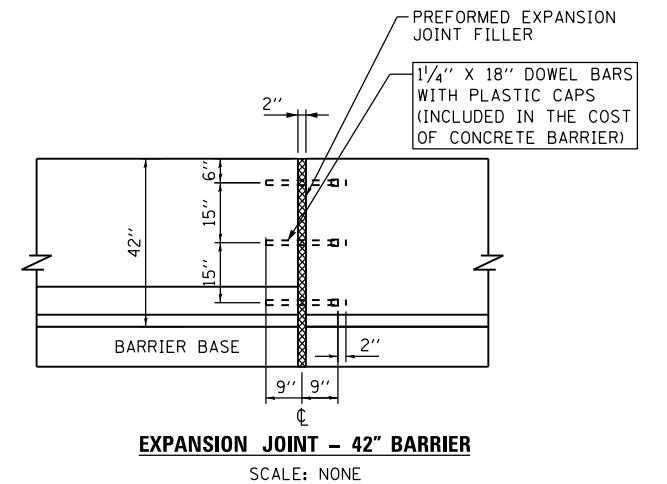
DETAIL "B"

SCALE: NONE



**DETAILS OF CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT AT PROPOSED STRUCTURE**

SCALE: NONE



EXPANSION JOINT - 42" BARRIER

SCALE: NONE

NOTES:

- EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER AND SHALL MEET AASHTO DESIGNATION M-33.
- ALL WORK AND MATERIALS DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
- PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF OF CONCRETE BARRIER OR CONCRETE BARRIER TRANSITION.
- JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
- TWO VERTICAL EPOXY COATED, NO. 8 TIE BARS, 10' LONG, SHALL BE PLACED STAGGERED FRONT TO BACK OF THE BARRIER WALL AT 48" CENTERS ALONG THE CONCRETE BARRIER TRANSITION. TIE BARS SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER TRANSITION.
- HORIZONTAL TIE BARS SHALL BE NO. 6 EPOXY COATED, 24" LONG, 24" C-C AND SHALL BE INCLUDED IN THE COST OF THE BARRIER BASE. HORIZONTAL TIE BARS ARE REQUIRED WHEN PAVEMENT IS PCC.
- EXPANSION JOINTS SHALL BE CONSTRUCTED IN BARRIER WALL AT MAXIMUM JOINT SPACING OF 90 FEET.
- VERTICAL TIE BARS ARE REQUIRED WHEN CONCRETE BARRIER AND CONCRETE BARRIER BASE ARE NOT POURED MONOLITHICALLY.

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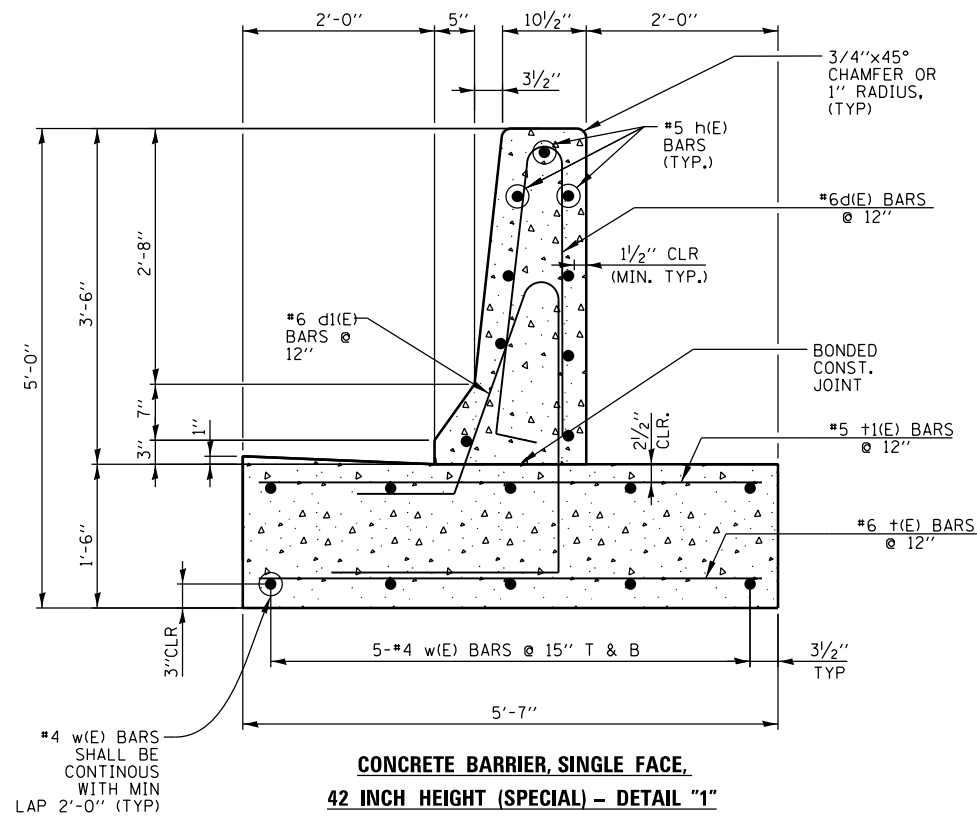
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS - CONCRETE BARRIERS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	256
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

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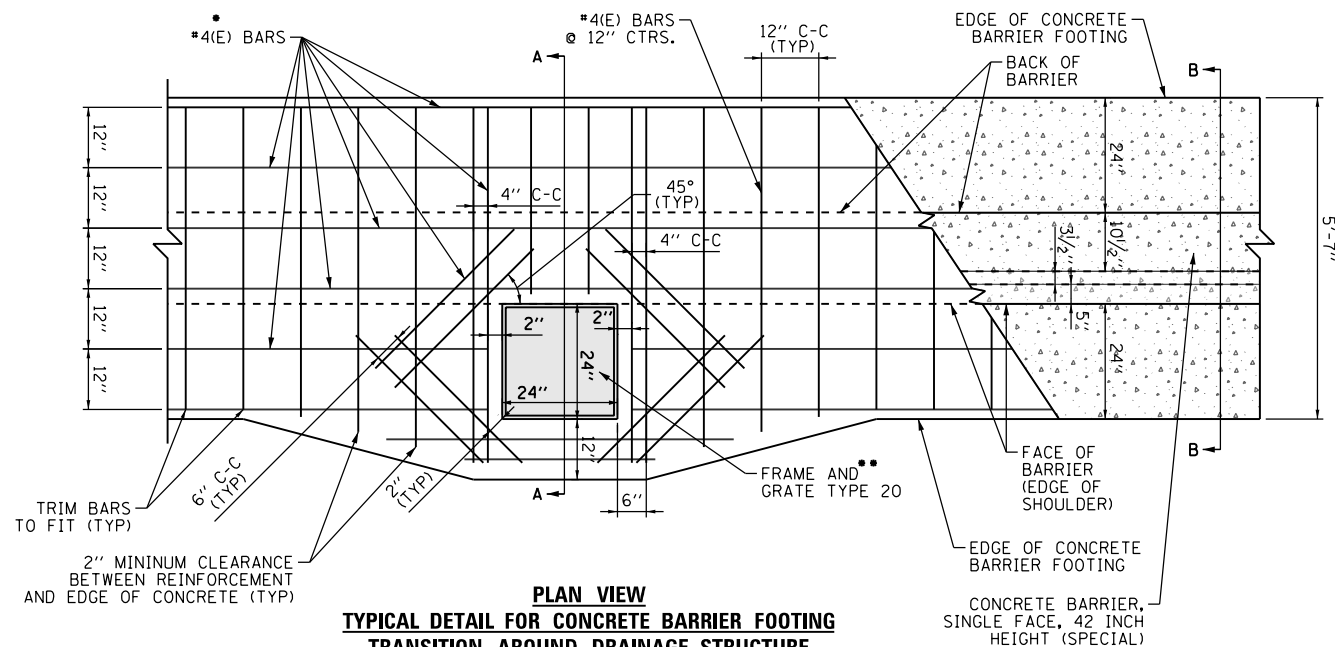


**CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT (SPECIAL) - DETAIL "1"**

SCALE: NONE
PAID FOR AS CONCRETE BARRIER,
SINGLE FACE, 42 INCH HEIGHT (SPECIAL)

NOTES:

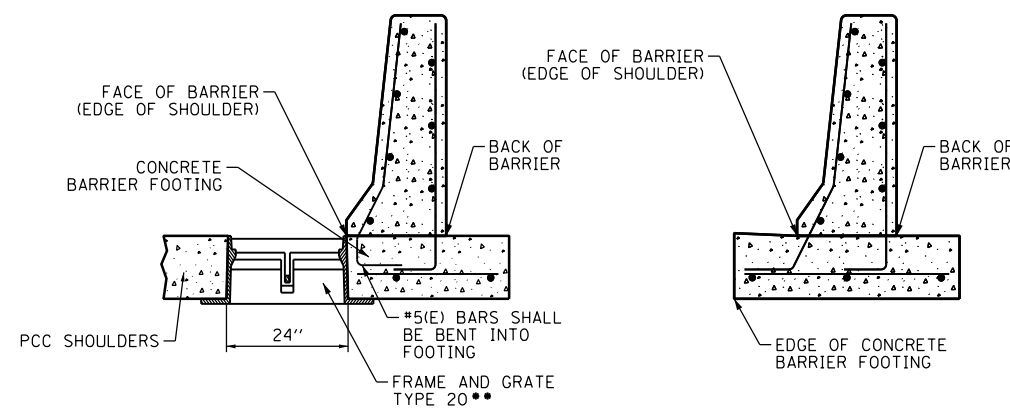
1. EXPANSION JOINTS SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER AND SHALL MEET AASHTO DESIGNATION M-33, SEE SHEET NO. 256 FOR DETAILS.
2. ALL WORK AND MATERIALS DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
3. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
4. EXPANSION JOINTS SHALL BE CONSTRUCTED IN BARRIER WALL AT MAXIMUM JOINT SPACING OF 90 FEET.
5. TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
6. 1" DEEP CONTRACTION JOINT SHALL BE CONSTRUCTED IN BOTH THE REINFORCED CONCRETE BARRIER WALL AND BASE.
7. THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SWAING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
8. REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
9. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
10. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.



**PLAN VIEW
TYPICAL DETAIL FOR CONCRETE BARRIER FOOTING
TRANSITION AROUND DRAINAGE STRUCTURE**

SCALE: NONE

- #4(E) BARS ARE TO BE USED FOR ALL REINFORCEMENT IN THE CONCRETE BARRIER FOOTING.
- SEE PLANS FOR DRAINAGE STRUCTURE DETAILS AND LOCATIONS.
- THE COST OF REINFORCEMENT AND FOOTING TRANSITION SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL).



**SECTION A-A
CONCRETE BARRIER, SINGLE FACE, 42 INCH
HEIGHT (SPECIAL) AT DRAINAGE STRUCTURE**

SCALE: NONE

- 2" MINIMUM CLEARANCE BETWEEN REINFORCEMENT AND EDGE OF CONCRETE.

**SECTION B-B
CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT (SPECIAL)**

SCALE: NONE

- 2" MINIMUM CLEARANCE BETWEEN REINFORCEMENT AND EDGE OF CONCRETE.



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 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 12/2/2014

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 CHECKED - DBM
 DATE - 12/05/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

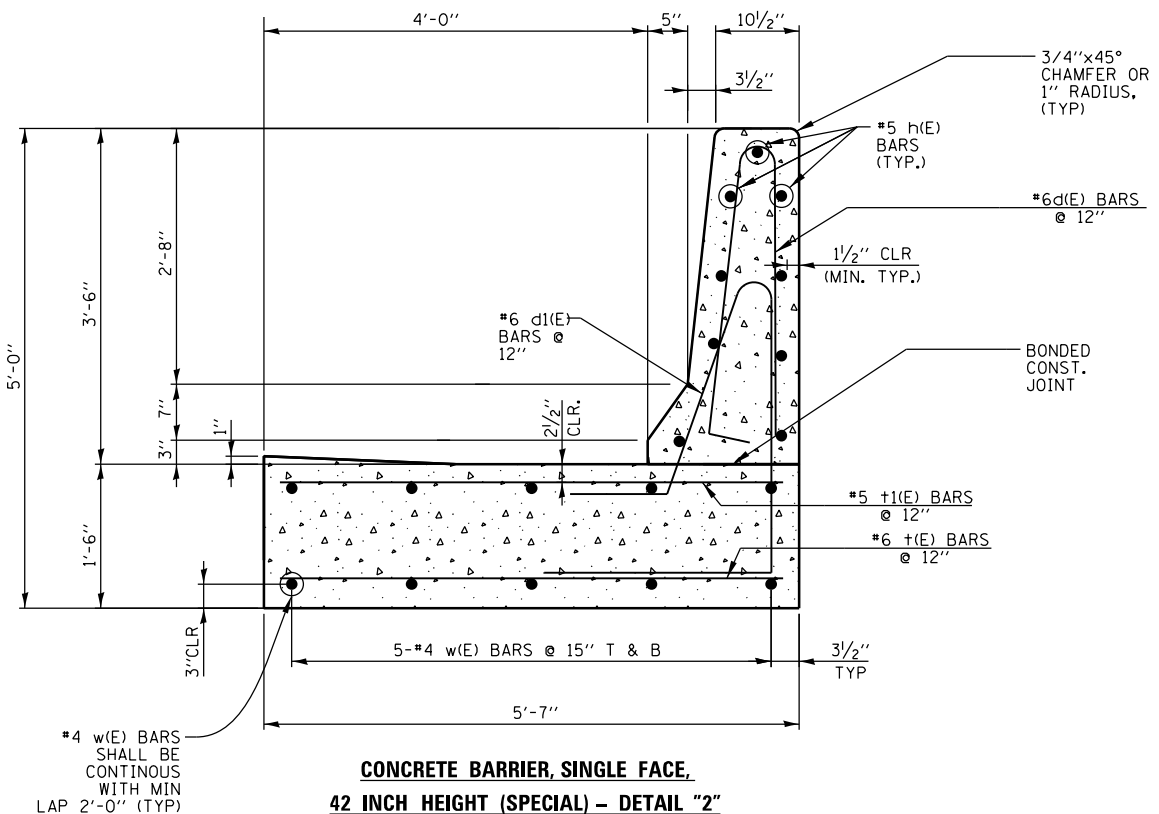
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS - CONCRETE BARRIER,
 SINGLE FACE, 42 INCH HEIGHT (SPECIAL) - DETAIL "1"

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	256A
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

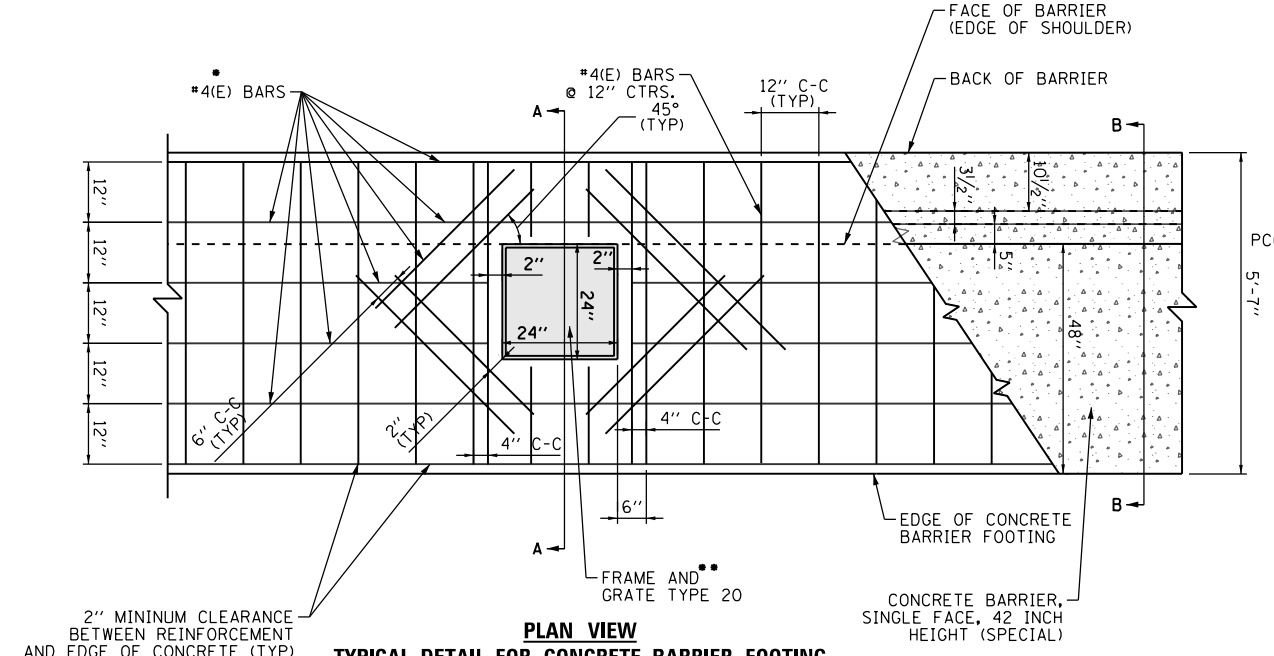
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CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL) - DETAIL "2"

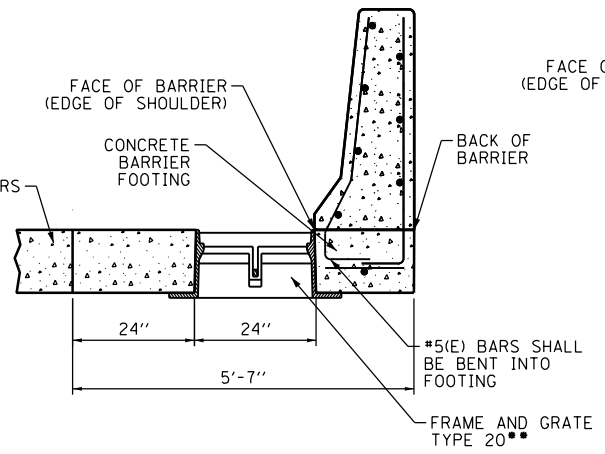
SCALE: NONE
PAID FOR AS CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)

- NOTES:**
- EXPANSION JOINTS SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER AND SHALL MEET AASHTO DESIGNATION M-33, SEE SHEET NO. 256 FOR DETAILS.
 - ALL WORK AND MATERIALS DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
 - JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
 - EXPANSION JOINTS SHALL BE CONSTRUCTED IN BARRIER WALL AT MAXIMUM JOINT SPACING OF 90 FEET.
 - TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
 - 1" DEEP CONTRACTION JOINT SHALL BE CONSTRUCTED IN BOTH THE REINFORCED CONCRETE BARRIER WALL AND BASE.
 - THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SWAING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
 - REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
 - REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
 - REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.



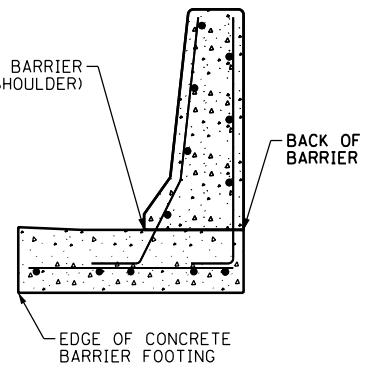
PLAN VIEW TYPICAL DETAIL FOR CONCRETE BARRIER FOOTING TRANSITION AROUND DRAINAGE STRUCTURE

- SCALE: NONE
- #4(E) BARS ARE TO BE USED FOR ALL REINFORCEMENT IN THE CONCRETE BARRIER FOOTING.
 - SEE PLANS FOR DRAINAGE STRUCTURE DETAILS AND LOCATIONS.
 - THE COST OF REINFORCEMENT AND FOOTING TRANSITION SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL).



SECTION A-A CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL) AT DRAINAGE STRUCTURE

- SCALE: NONE
- 2" MINIMUM CLEARANCE BETWEEN REINFORCEMENT AND EDGE OF CONCRETE.



SECTION B-B CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)

- SCALE: NONE
- 2" MINIMUM CLEARANCE BETWEEN REINFORCEMENT AND EDGE OF CONCRETE.

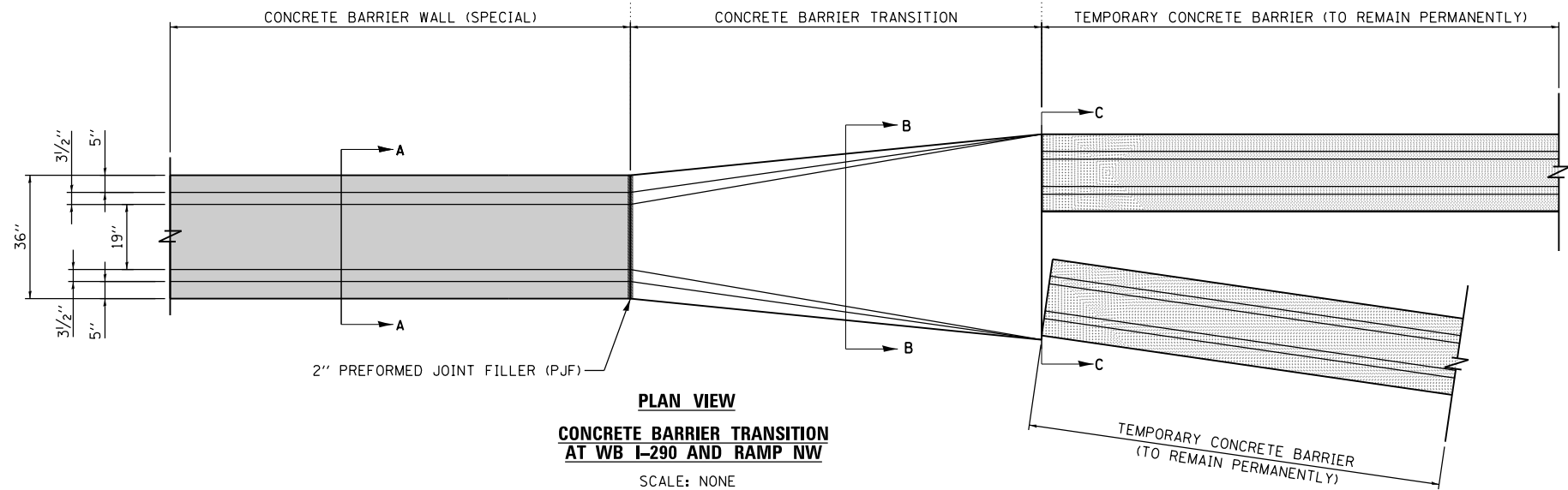
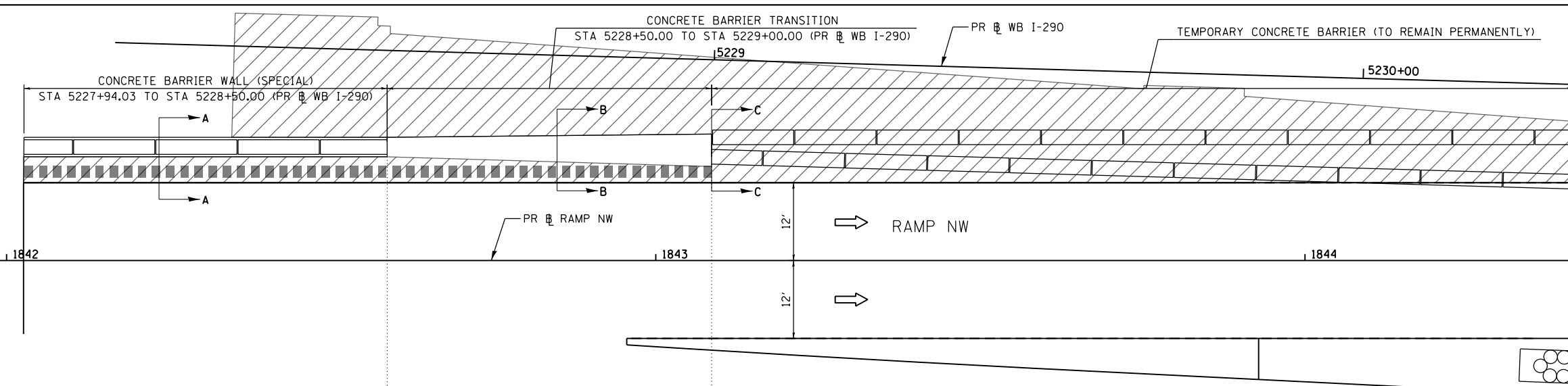


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PLOT DATE = 12/2/2014	DATE - 12/05/14	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

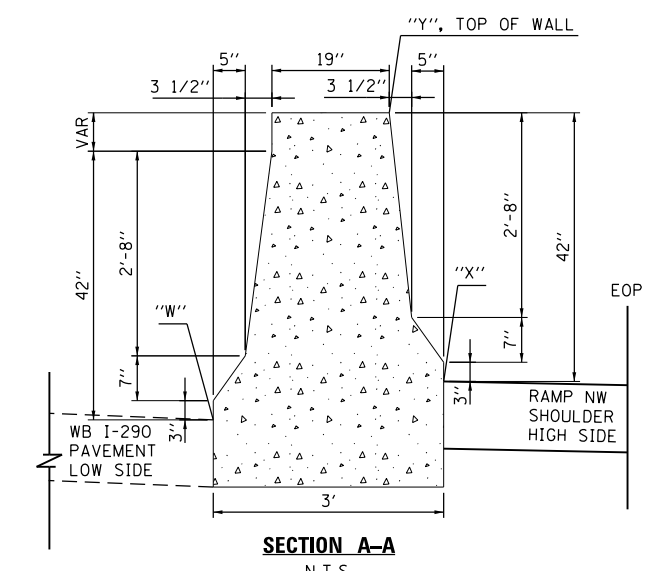
ROADWAY DETAILS - CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL) - DETAIL "2"			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	256B
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

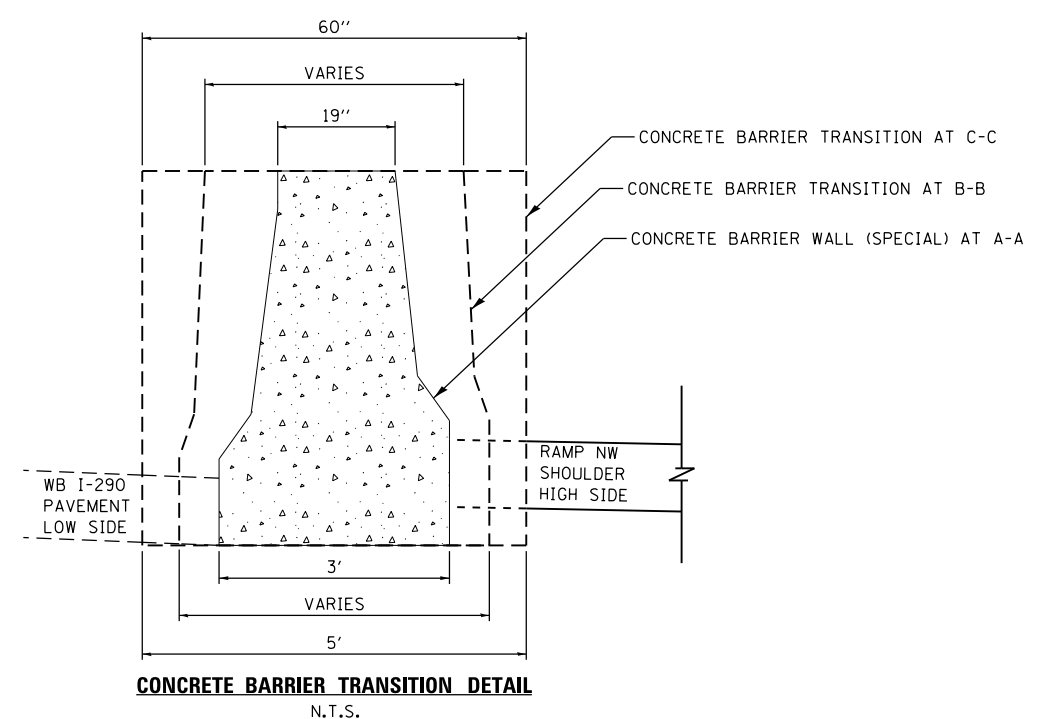


PLAN VIEW
CONCRETE BARRIER TRANSITION
AT WB I-290 AND RAMP NW
 SCALE: NONE

CONCRETE BARRIER WALL (SPECIAL) DETAILS					
STA RAMP NW	W		X		Y = TOP OF WALL
	ELEV.	O/S	ELEV.	O/S	ELEV.
1842+02.61	577.30	-19.00	578.55	-16.00	582.05
1842+05.00	577.30	-19.00	578.51	-16.00	582.01
1842+10.00	577.32	-19.00	578.41	-16.00	581.91
1842+15.00	577.34	-19.00	578.33	-16.00	581.83
1842+20.00	577.35	-19.00	578.25	-16.00	581.75
1842+25.00	577.37	-19.00	578.18	-16.00	581.68
1842+30.00	577.38	-19.00	578.12	-16.00	581.62
1842+35.00	577.39	-19.00	578.06	-16.00	581.56
1842+40.00	577.40	-19.00	578.02	-16.00	581.52
1842+45.00	577.41	-19.00	577.98	-16.00	581.48
1842+50.00	577.43	-19.00	577.95	-16.00	581.45
1842+55.00	577.47	-19.00	577.92	-16.00	581.42
1842+58.64	577.51	-19.00	577.91	-16.00	581.41



SECTION A-A
 N.T.S.



CONCRETE BARRIER TRANSITION DETAIL
 N.T.S.

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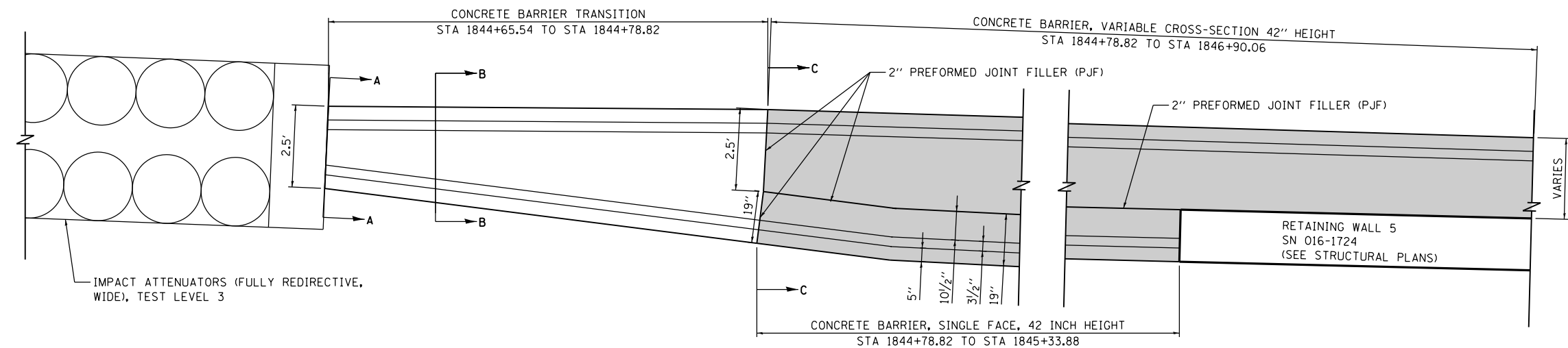
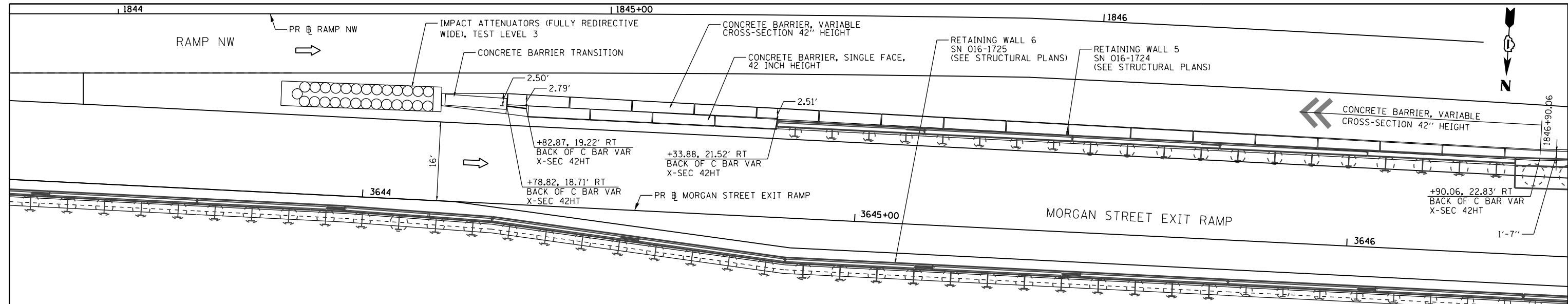
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

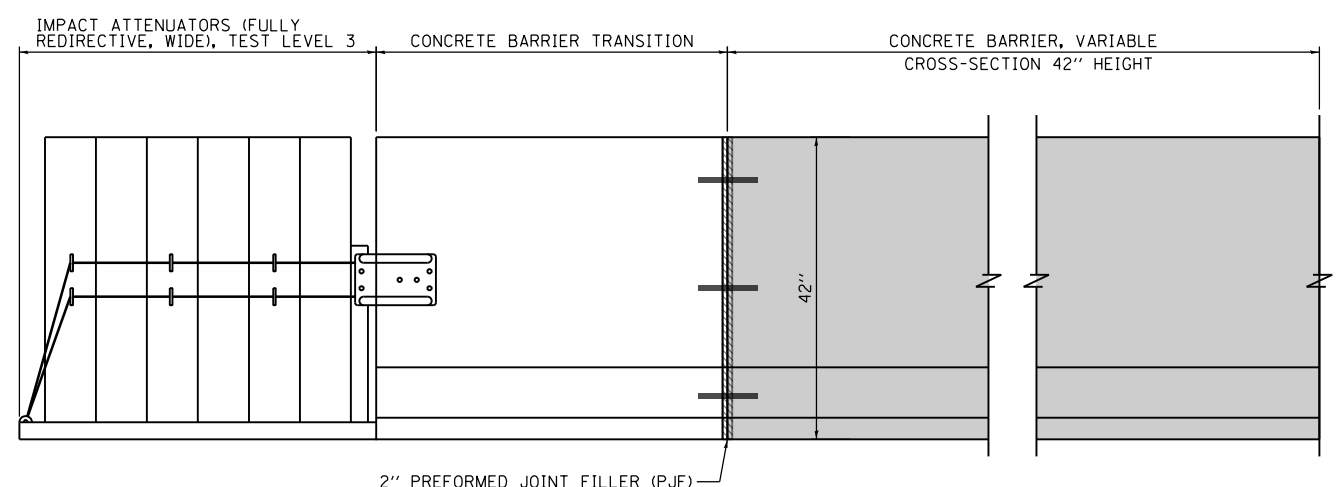
ROADWAY DETAILS - CONCRETE BARRIER TRANSITION AT WB I-290

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

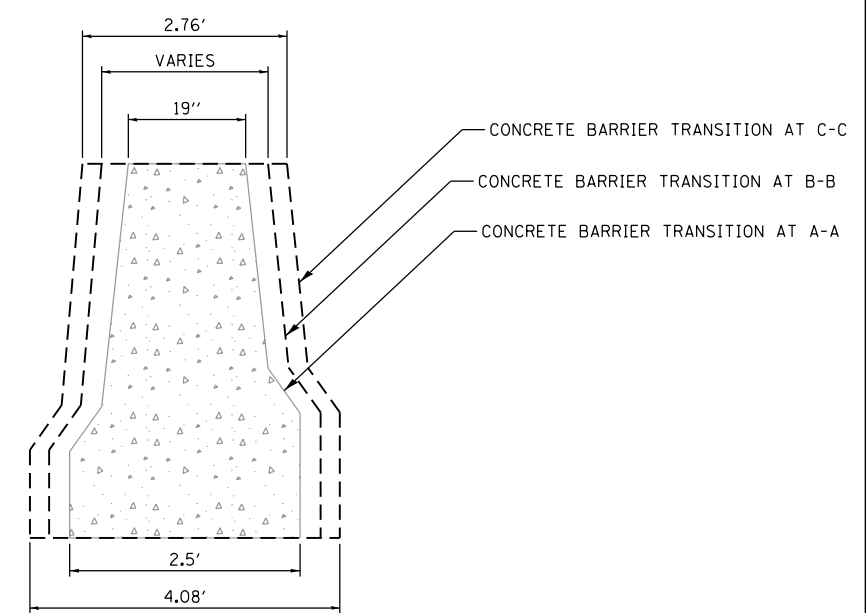
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CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				



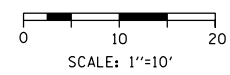
PLAN VIEW
CONCRETE BARRIER TRANSITION
AT MORGAN STREET EXIT RAMP
AND RW 5 (SN 016-1724)
 SCALE: NONE



ELEVATION VIEW
CONCRETE BARRIER TRANSITION
AT MORGAN STREET EXIT RAMP
AND RW 5 (SN 016-1724)
 SCALE: NONE



CONCRETE BARRIER TRANSITION DETAIL
 SCALE: NONE



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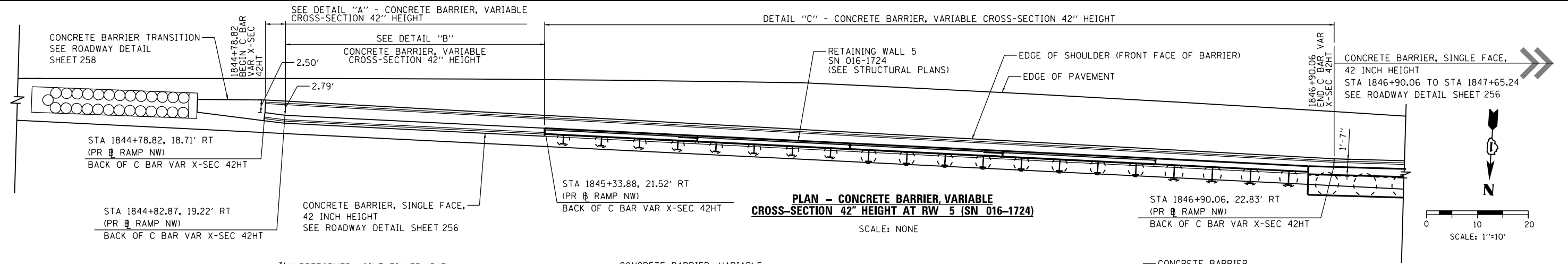
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

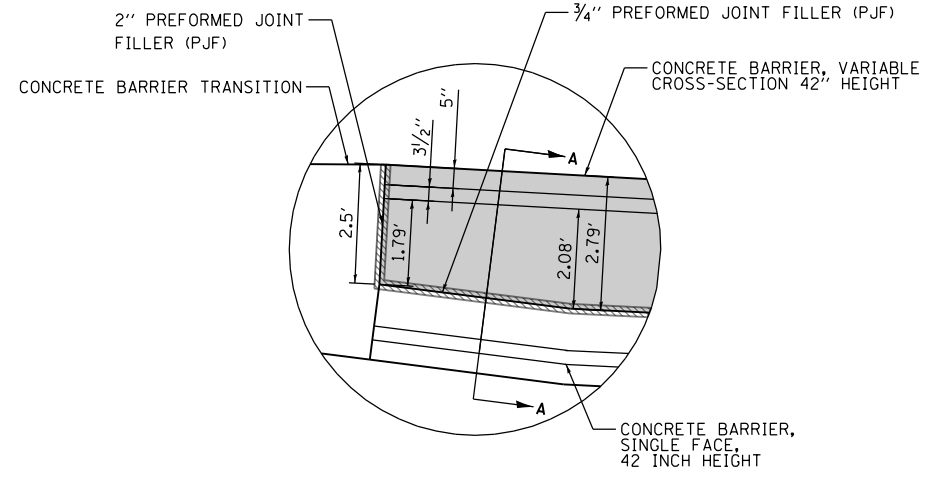
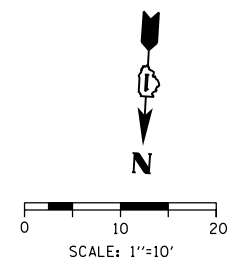
ROADWAY DETAILS - CONCRETE BARRIER TRANSITION AT RW 5

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

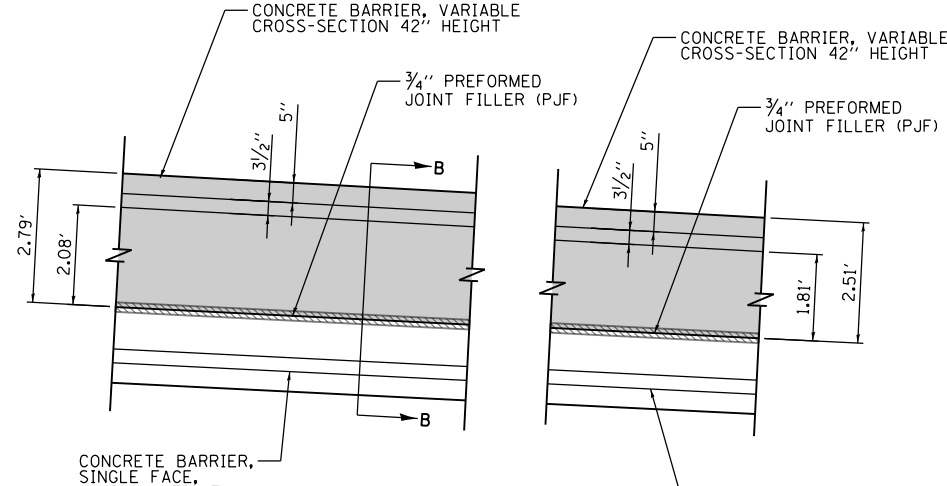
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	258
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				



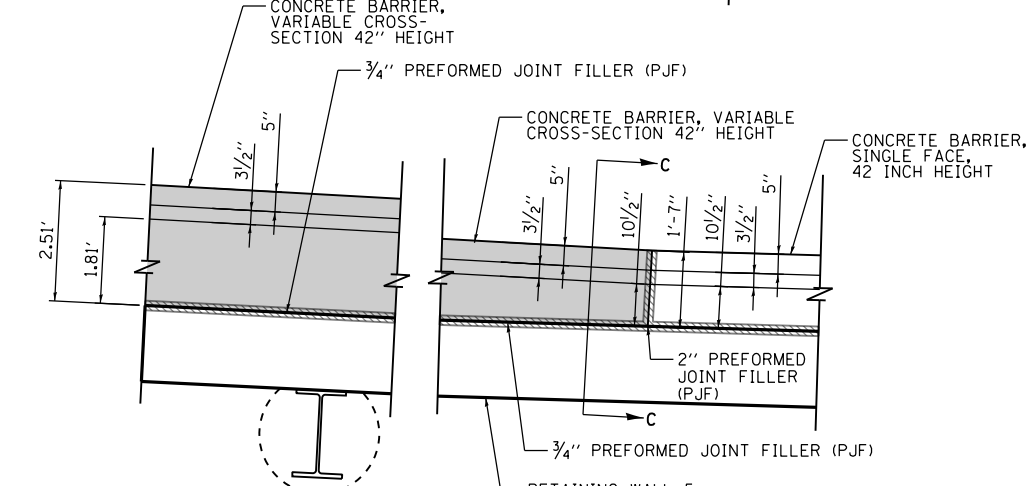
PLAN - CONCRETE BARRIER, VARIABLE CROSS-SECTION 42" HEIGHT AT RW 5 (SN 016-1724)
SCALE: NONE



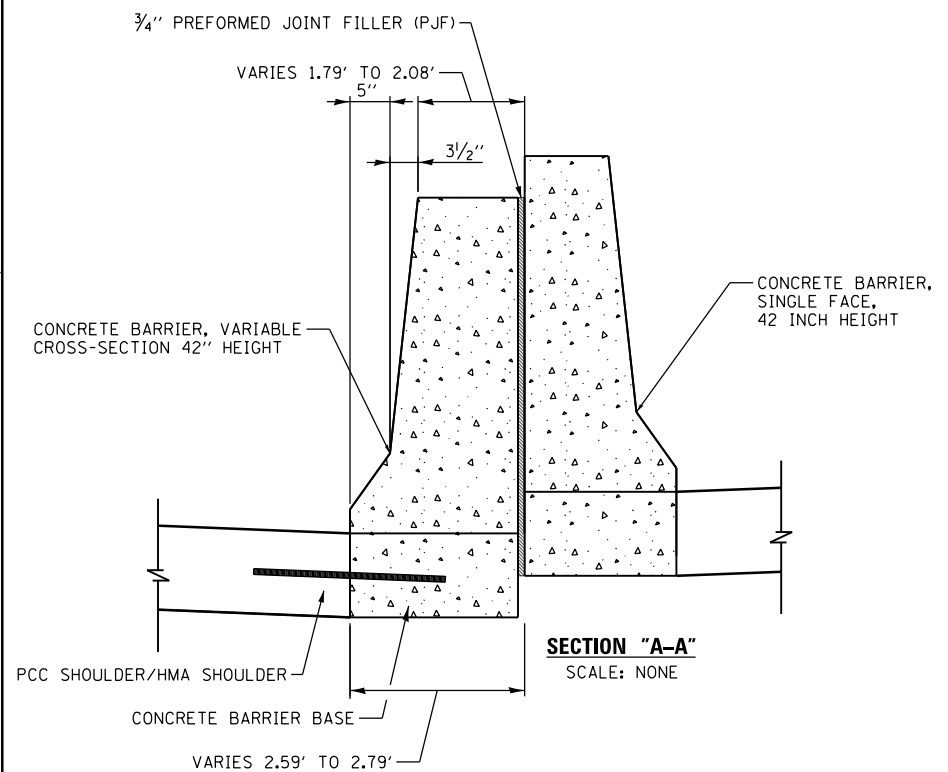
DETAIL "A"
CONCRETE BARRIER, VARIABLE CROSS-SECTION 42" HEIGHT
STA 1844 + 78.82 TO STA 1844 + 82.75
SCALE: NONE



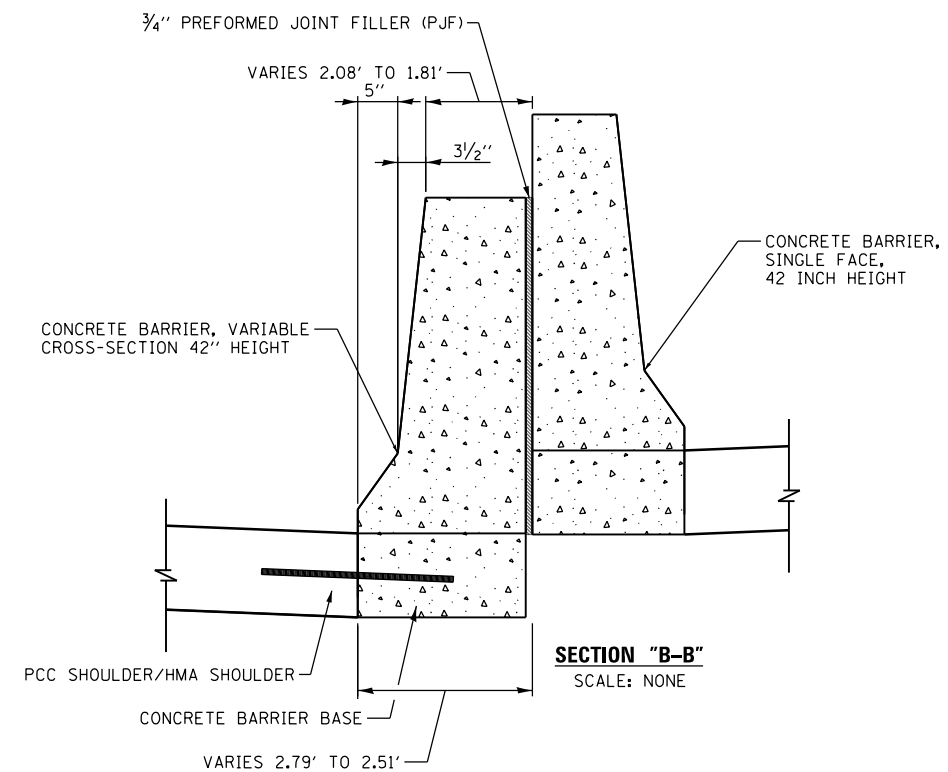
DETAIL "B"
CONCRETE BARRIER, VARIABLE CROSS-SECTION 42" HEIGHT
STA 1844 + 82.75 TO STA 1845 + 33.88
SCALE: NONE



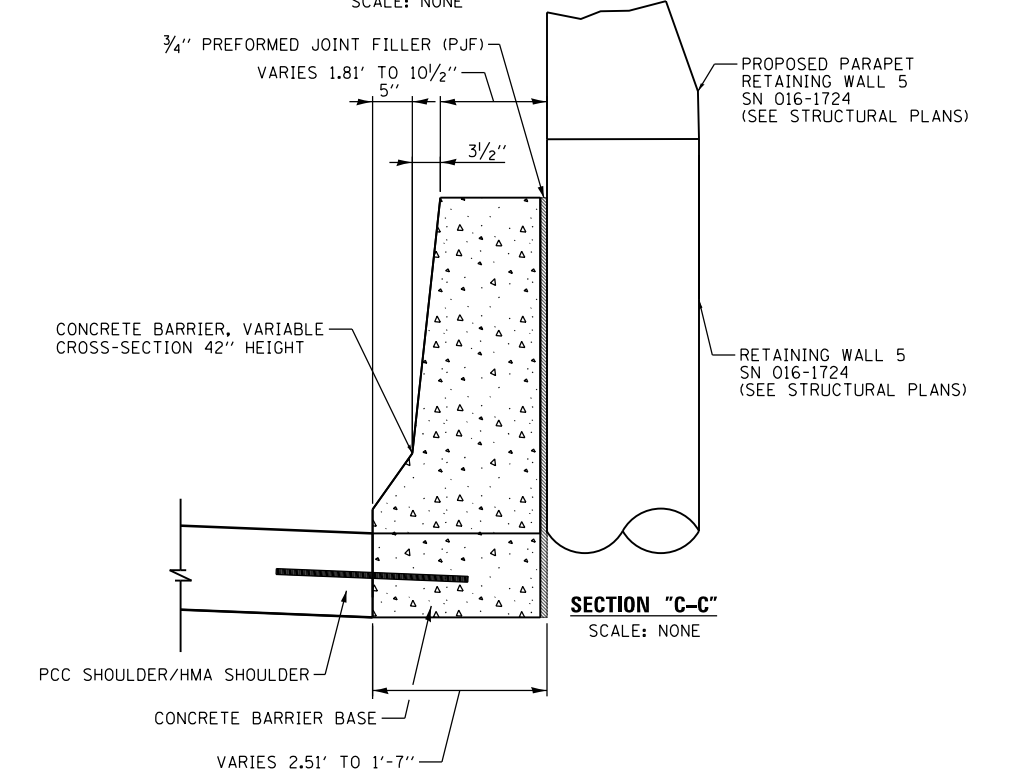
DETAIL "C"
CONCRETE BARRIER, VARIABLE CROSS-SECTION 42" HEIGHT
STA 1845 + 33.88 TO STA STA 1846 + 90.06
SCALE: NONE



SECTION "A-A"
SCALE: NONE



SECTION "B-B"
SCALE: NONE



SECTION "C-C"
SCALE: NONE



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

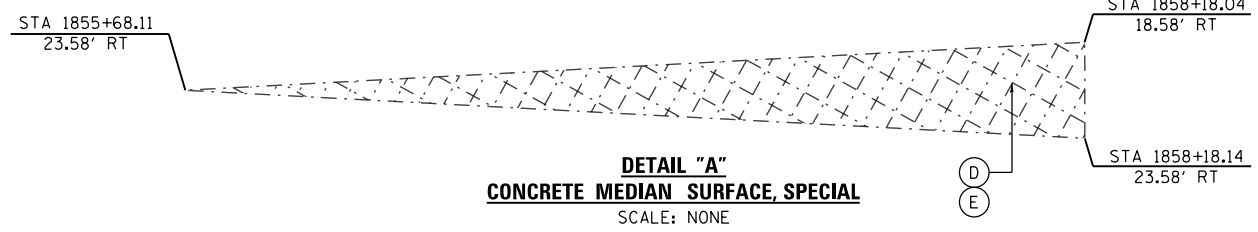
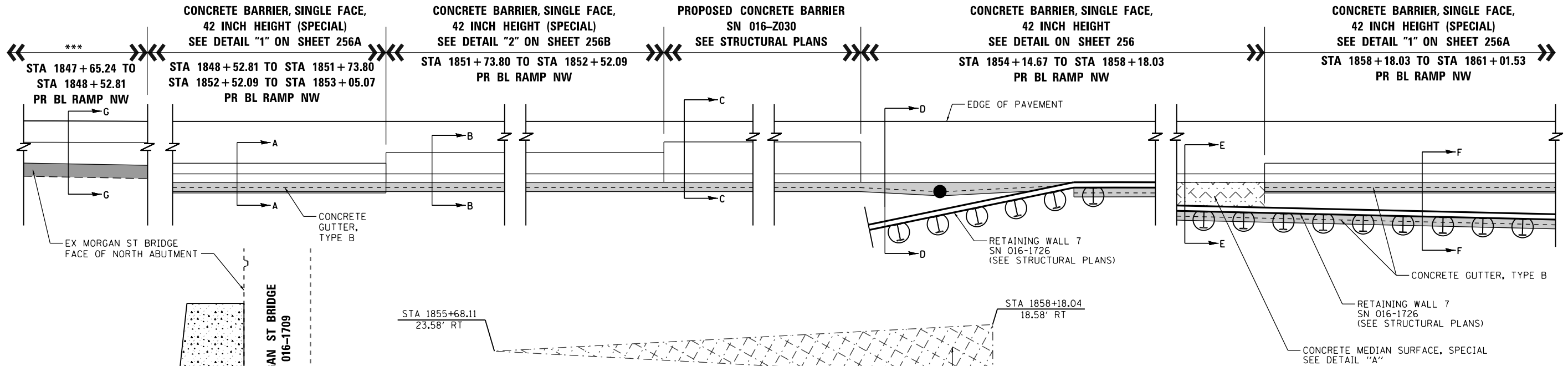
**ROADWAY DETAIL - CONCRETE BARRIER,
VARIABLE CROSS-SECTION 42" HEIGHT**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	259
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

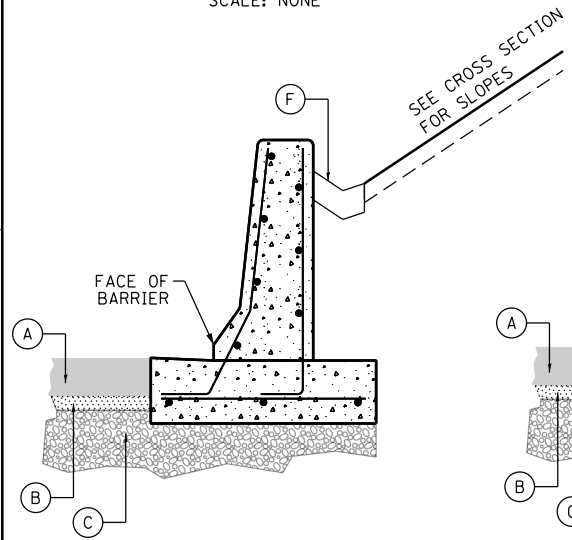
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*** CONCRETE BARRIER, VARIABLE
CROSS-SECTION 42" HEIGHT
SEE DETAIL ON SHEET 256

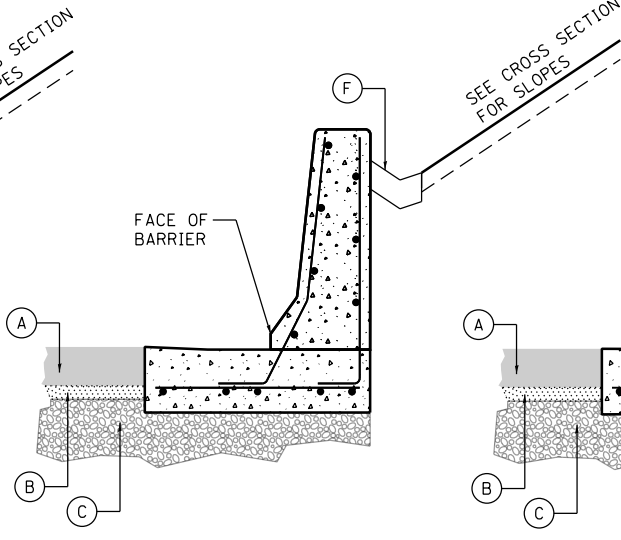


- LEGEND:**
- (A) PORTLAND CEMENT CONCRETE SHOULDERS 11"
 - (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
 - (C) AGGREGATE SUBGRADE IMPROVEMENT 24"
 - (D) CONCRETE MEDIAN SURFACE, SPECIAL
 - (E) POROUS GRANULAR EMBANKMENT
 - (F) CONCRETE GUTTER, TYPE B

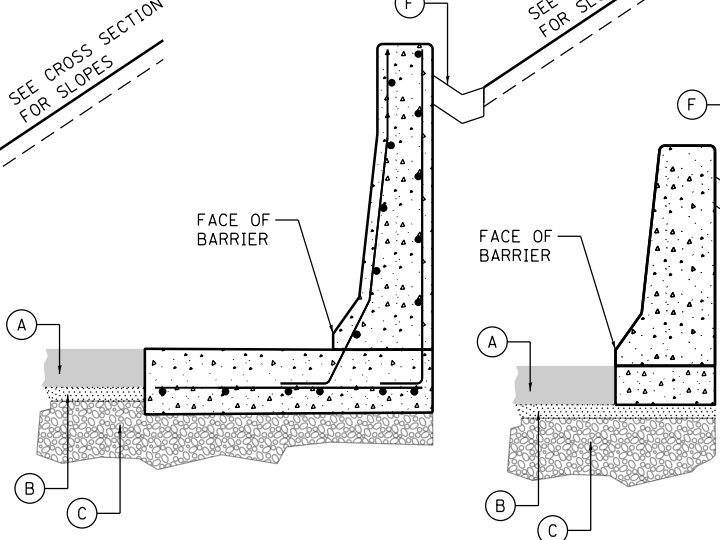
SECTION G-G
CONCRETE BARRIER, VARIABLE
CROSS-SECTION 42" HEIGHT
SCALE: NONE



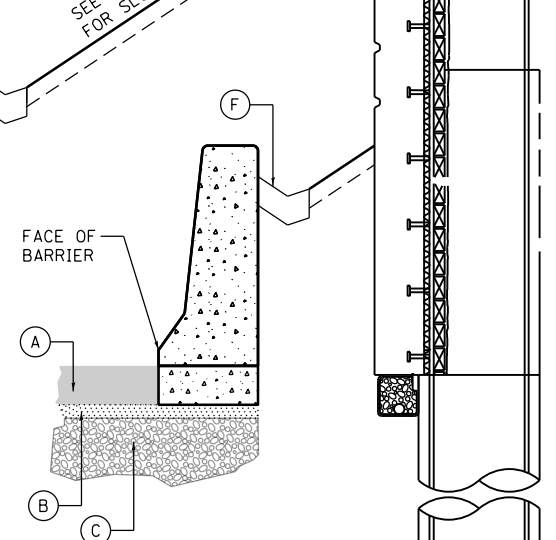
SECTION A-A
CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT (SPECIAL) - DETAIL "1"
SCALE: NONE



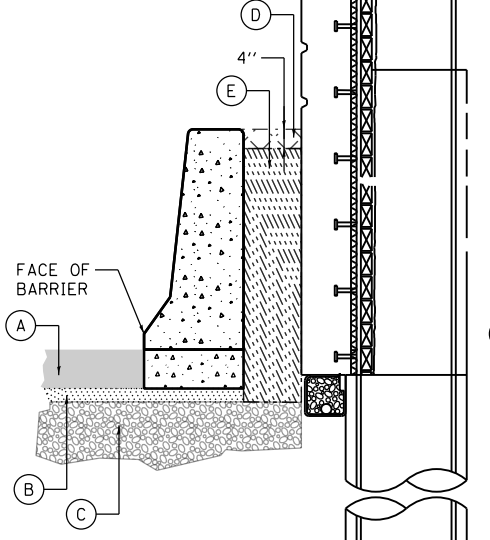
SECTION B-B
CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT (SPECIAL) - DETAIL "2"
SCALE: NONE



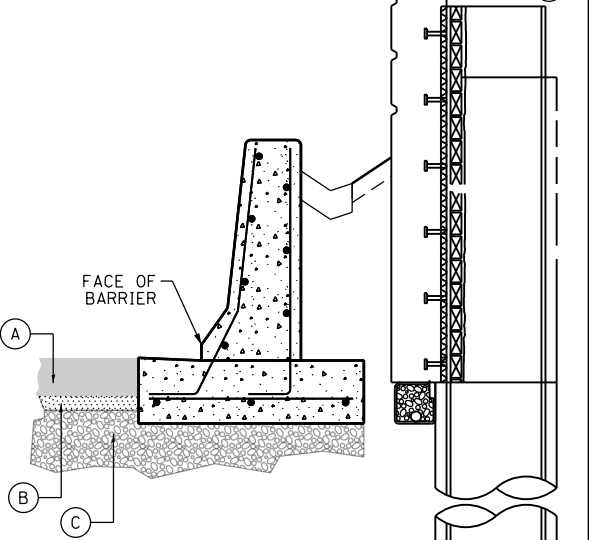
SECTION C-C
PROPOSED CONCRETE BARRIER
SN 016-2030
SCALE: NONE



SECTION D-D
CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT
SCALE: NONE



SECTION E-E
CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT
SCALE: NONE



SECTION F-F
CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT (SPECIAL) - DETAIL "1"
SCALE: NONE

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DATE - 12/05/14

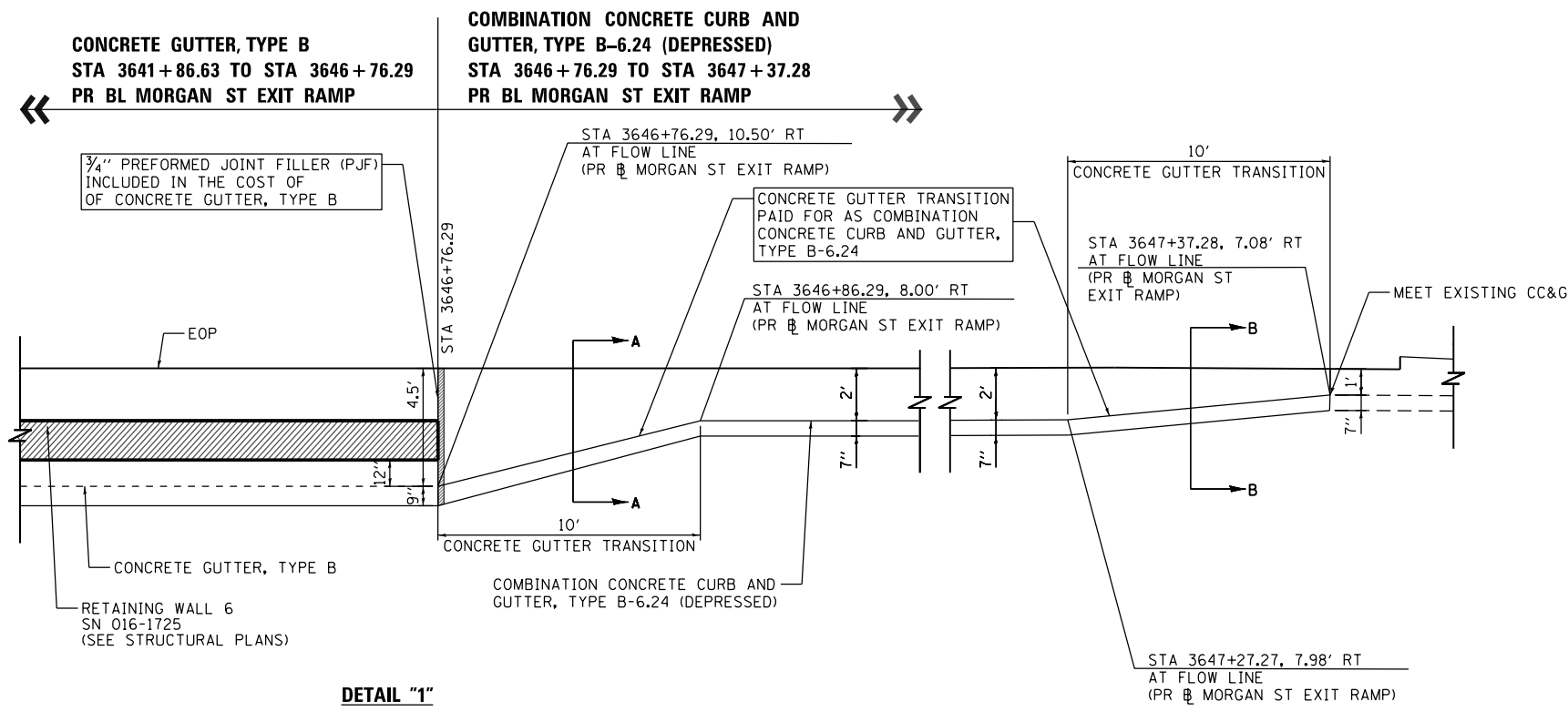
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

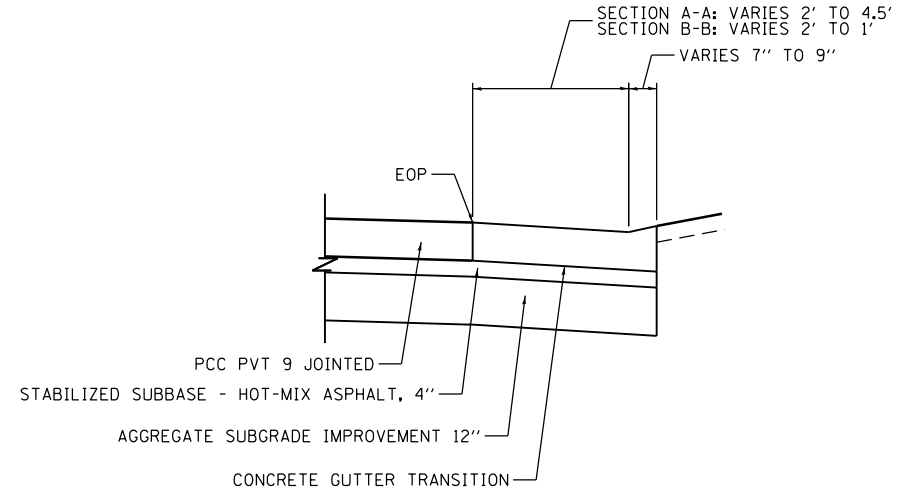
ROADWAY DETAILS - CONCRETE BARRIER LIMITS
FROM MORGAN STREET TO RACINE AVENUE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	259A
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

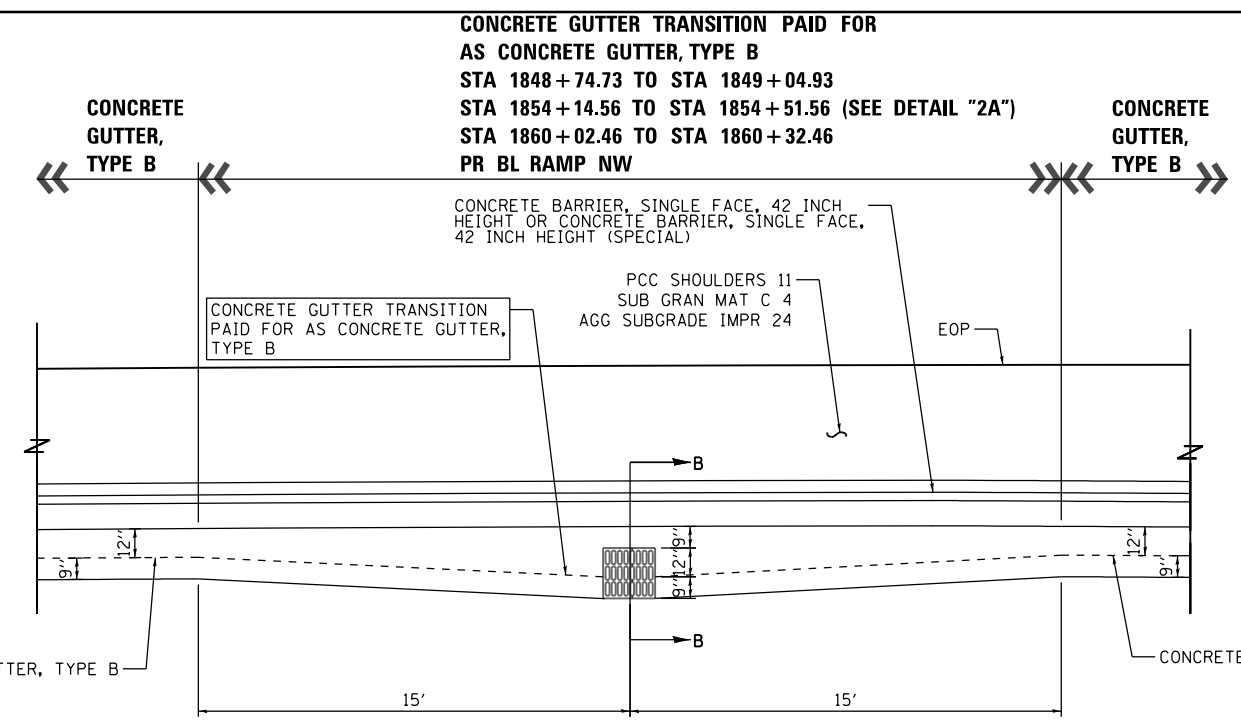


DETAIL "1"
CONCRETE GUTTER TRANSITION
PLAN VIEW
SCALE: NONE

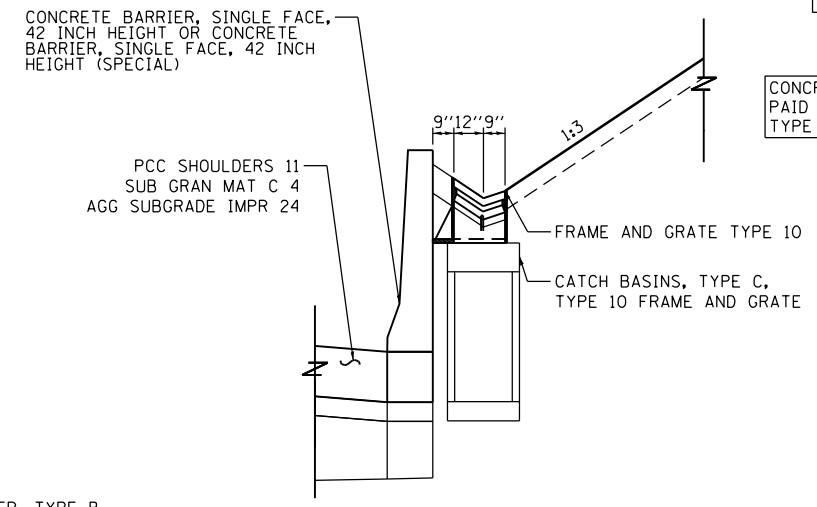


SECTIONS A-A AND B-B
SCALE: NONE

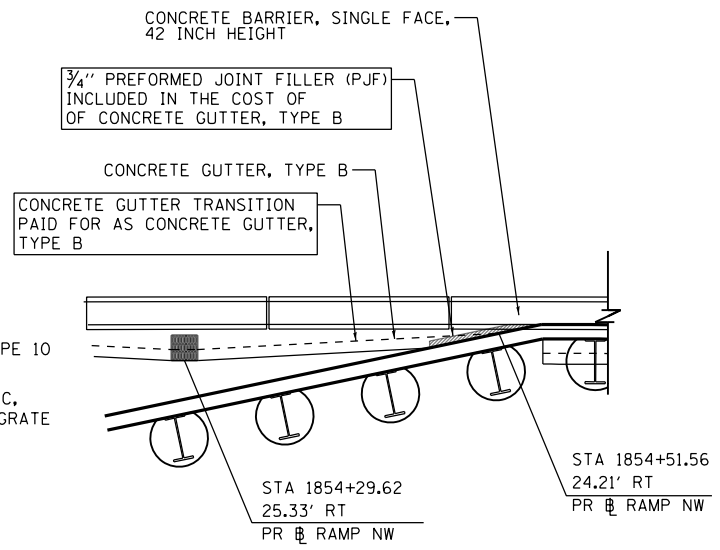
CONCRETE GUTTER TRANSITION DETAIL "1"



DETAIL "2"
CONCRETE GUTTER TRANSITION
PLAN VIEW
SCALE: NONE



SECTION "B-B"
CONCRETE GUTTER TRANSITION
PLAN VIEW
SCALE: NONE



DETAIL "2A"
CONCRETE GUTTER TRANSITION
PLAN VIEW
SCALE: NONE

CONCRETE GUTTER TRANSITION DETAIL "2"

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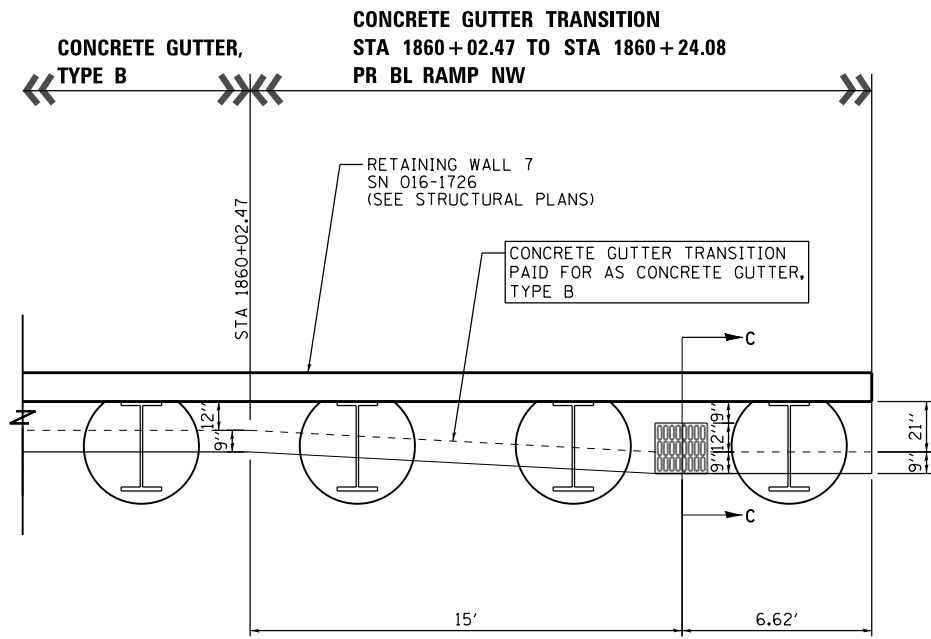
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CHECKED - DBM
DATE - 12/05/14

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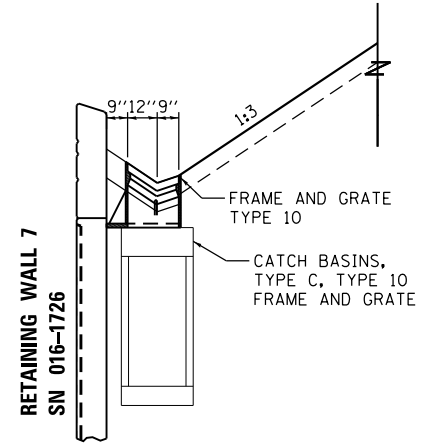
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS - CONCRETE GUTTER TRANSITION
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

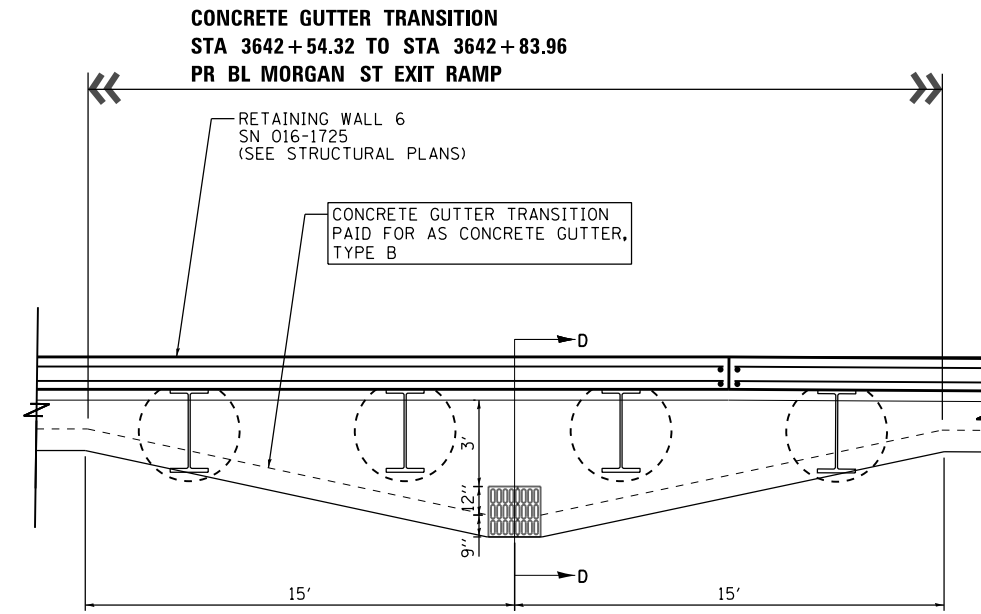
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	260
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				



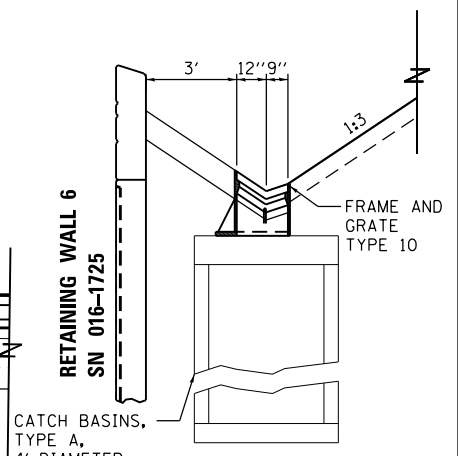
DETAIL "3"
CONCRETE GUTTER TRANSITION
PLAN VIEW
 SCALE: NONE



SECTION "C-C"
CONCRETE GUTTER TRANSITION
PLAN VIEW
 SCALE: NONE

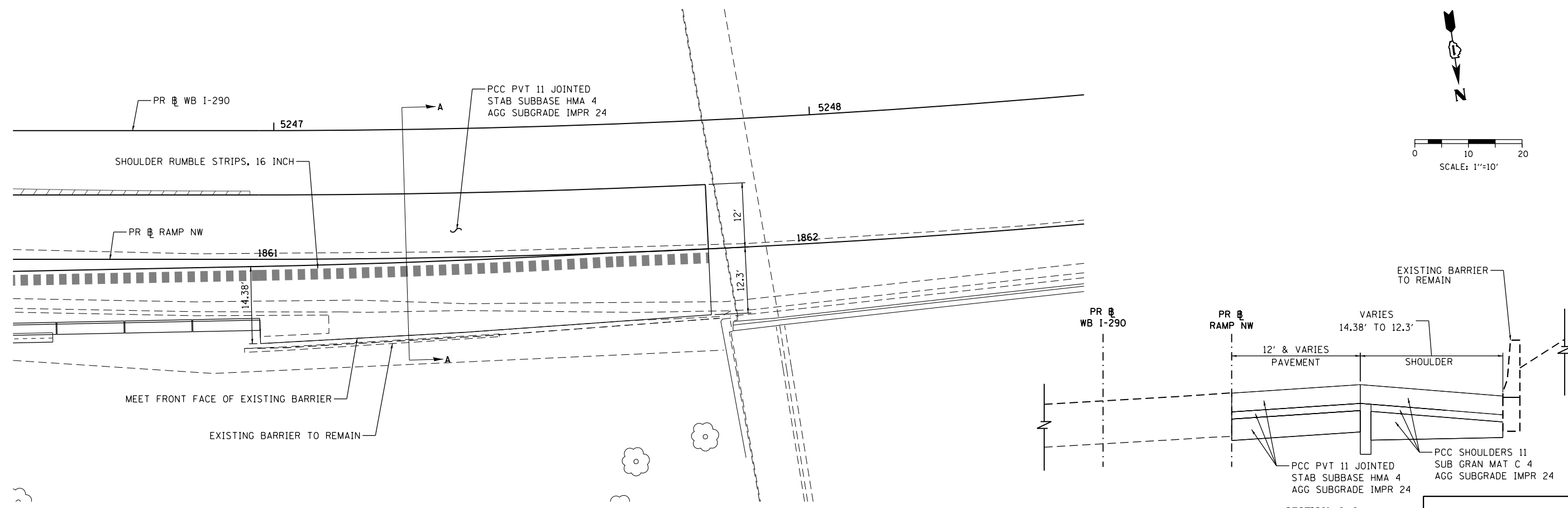


DETAIL "4"
CONCRETE GUTTER TRANSITION
PLAN VIEW
 SCALE: NONE



SECTION "D-D"
CONCRETE GUTTER TRANSITION
PLAN VIEW
 SCALE: NONE

CONCRETE GUTTER
TRANSITION DETAIL "3"



SECTION A-A
 SCALE: NONE

SHOULDER TRANSITION
AT EXISTING BARRIER

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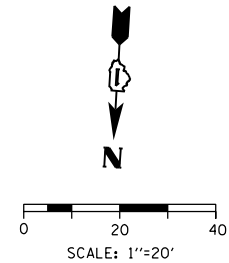
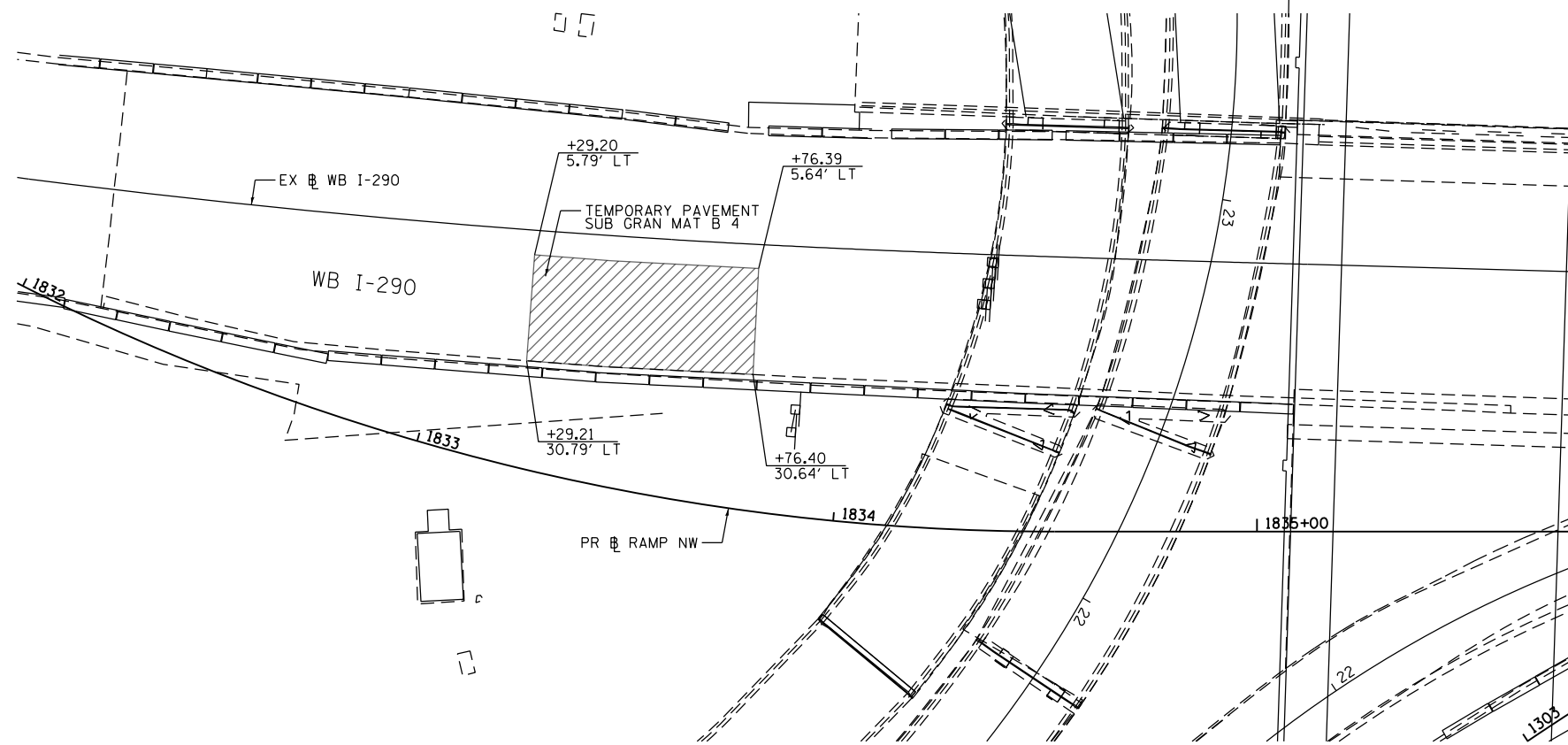
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CHECKED - DBM	REVISED -
DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS - CONCRETE GUTTER TRANSITION
AND SHOULDER TRANSITION

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

F.A.I. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 261
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

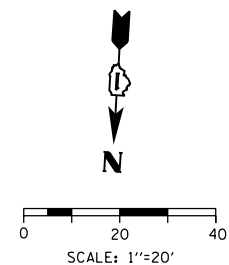
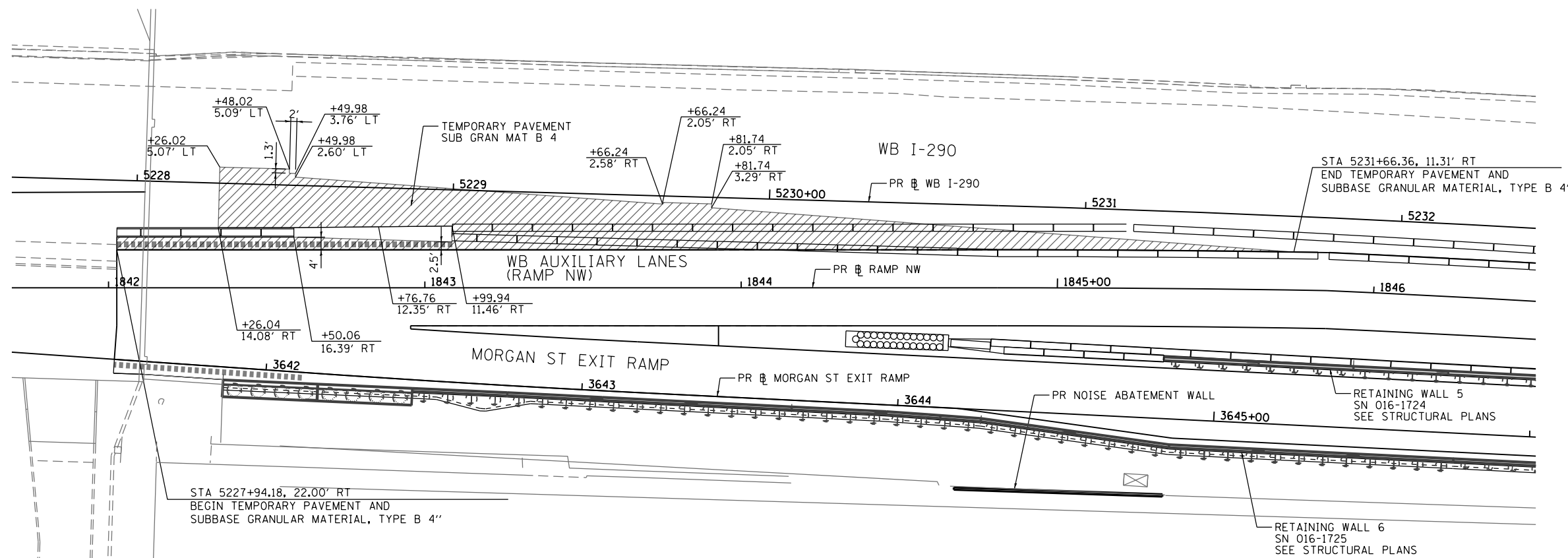


TEMPORARY PAVEMENT DETAIL "A"
WB I-290

EX WB I-290
SCALE: NONE

TEMPORARY PAVEMENT
SUB GRAN MAT B 4
SEE SHEET 23
FOR TEMPORARY PAVEMENT DETAIL

**TEMPORARY PAVEMENT
DETAIL "A"**



TEMPORARY PAVEMENT DETAIL "B"
WB I-290

PR WB I-290
SCALE: NONE

TEMPORARY PAVEMENT
SUB GRAN MAT B 4
SEE SHEET 23
FOR TEMPORARY PAVEMENT DETAIL

**TEMPORARY PAVEMENT
DETAIL "B"**

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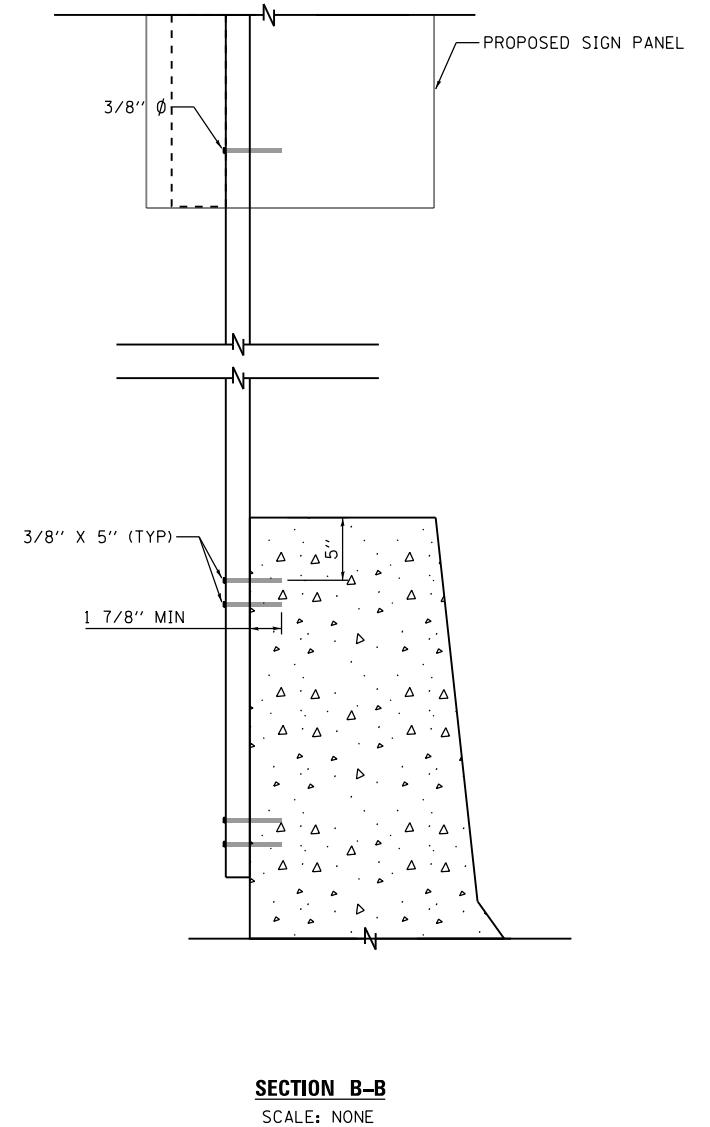
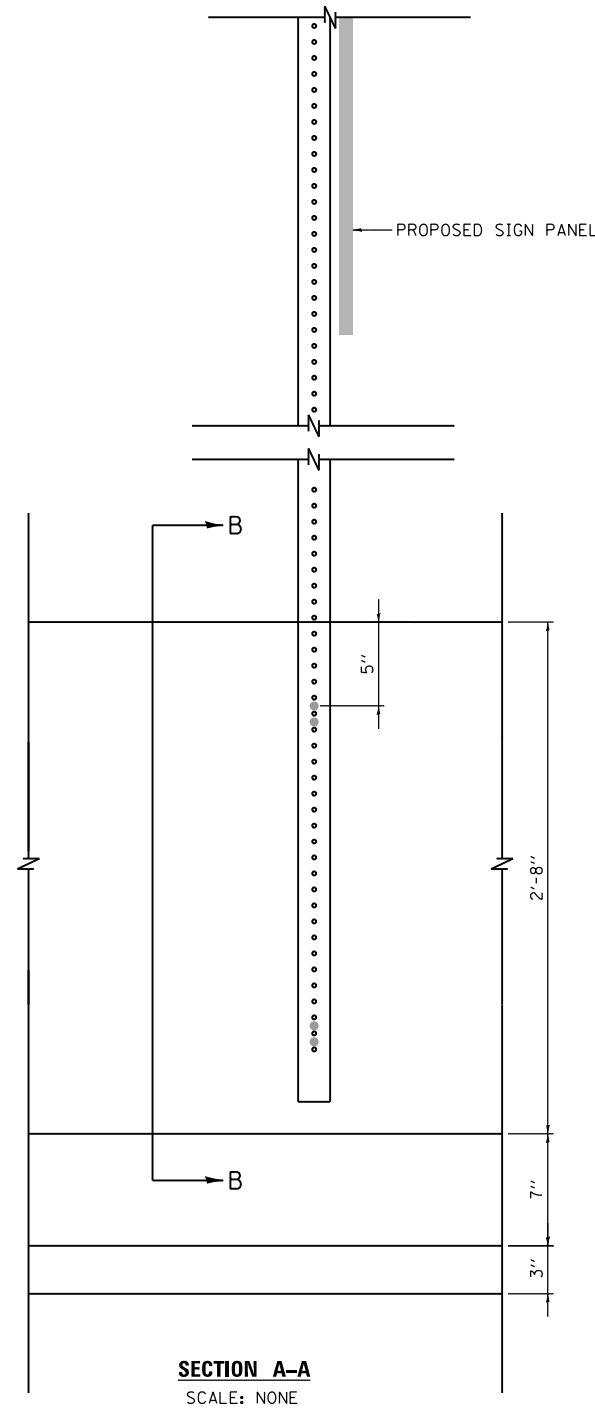
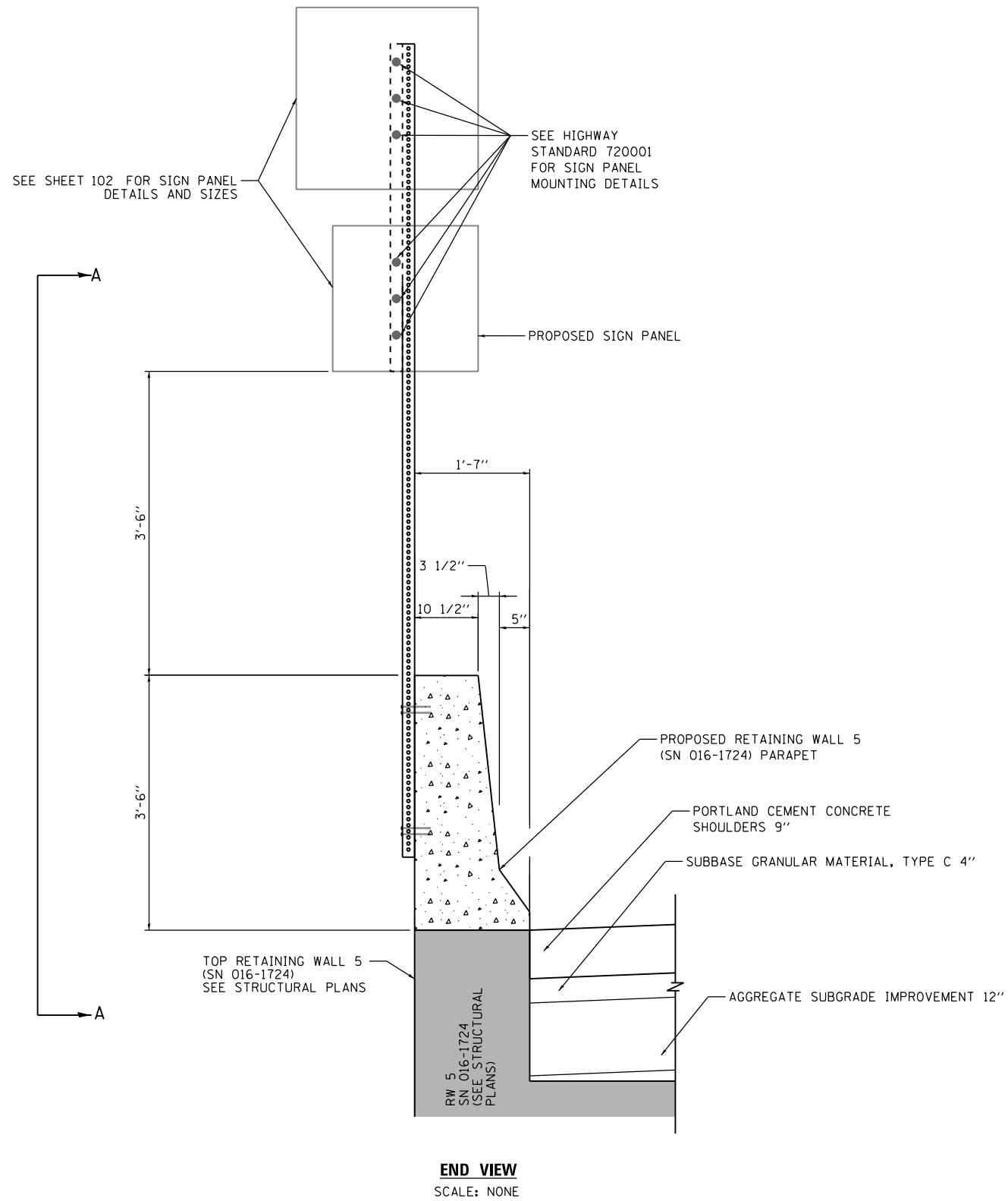
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS - TEMPORARY PAVEMENT LAYOUT

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	262
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

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D160X61-shd-Detail-08.dgn
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 PLOT DATE = 12/3/2014

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 CHECKED - DBM
 DATE - 12/05/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

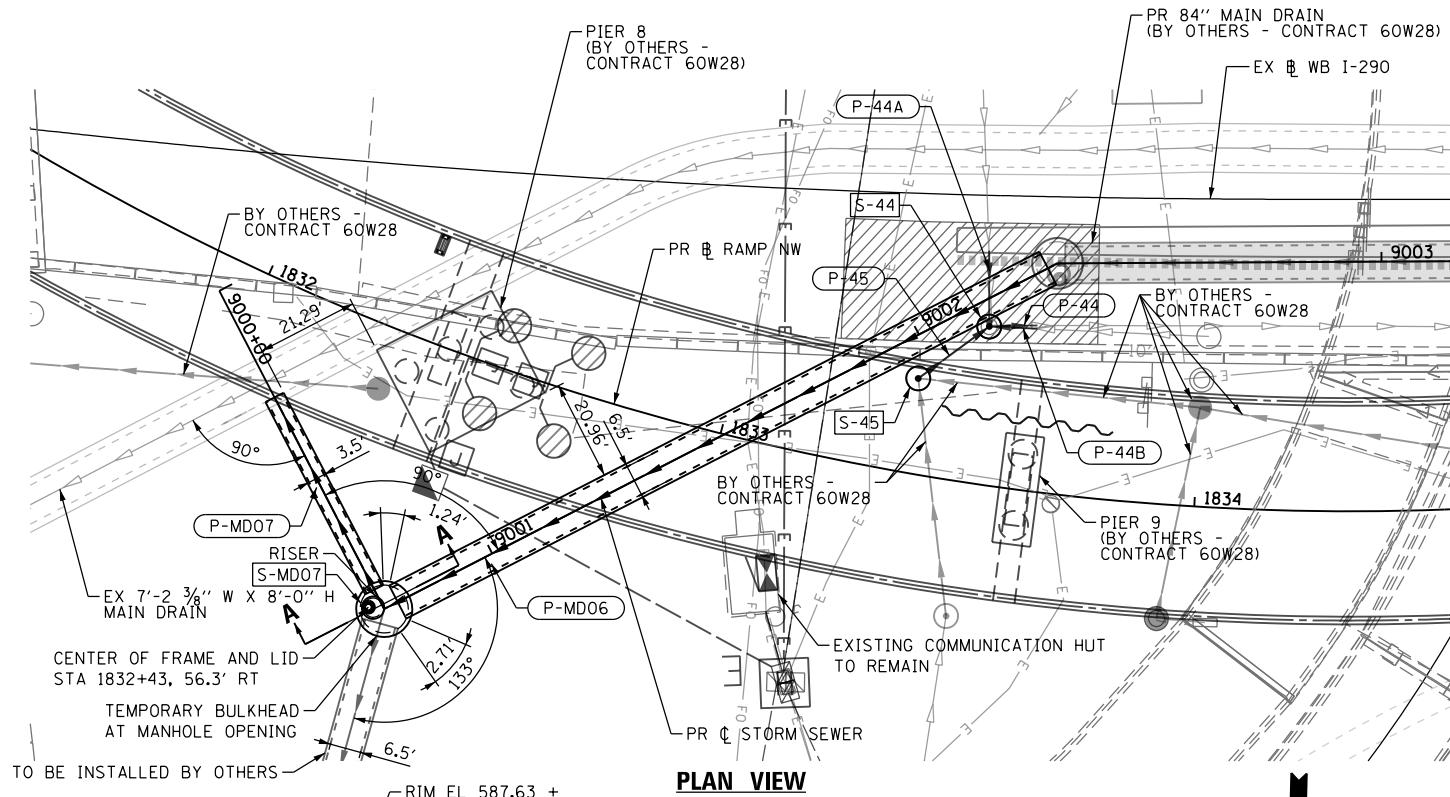
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS - WALL MOUNTED SIGN BASE DETAIL
FOR TELESCOPING STEEL SIGN SUPPORT (SPECIAL)

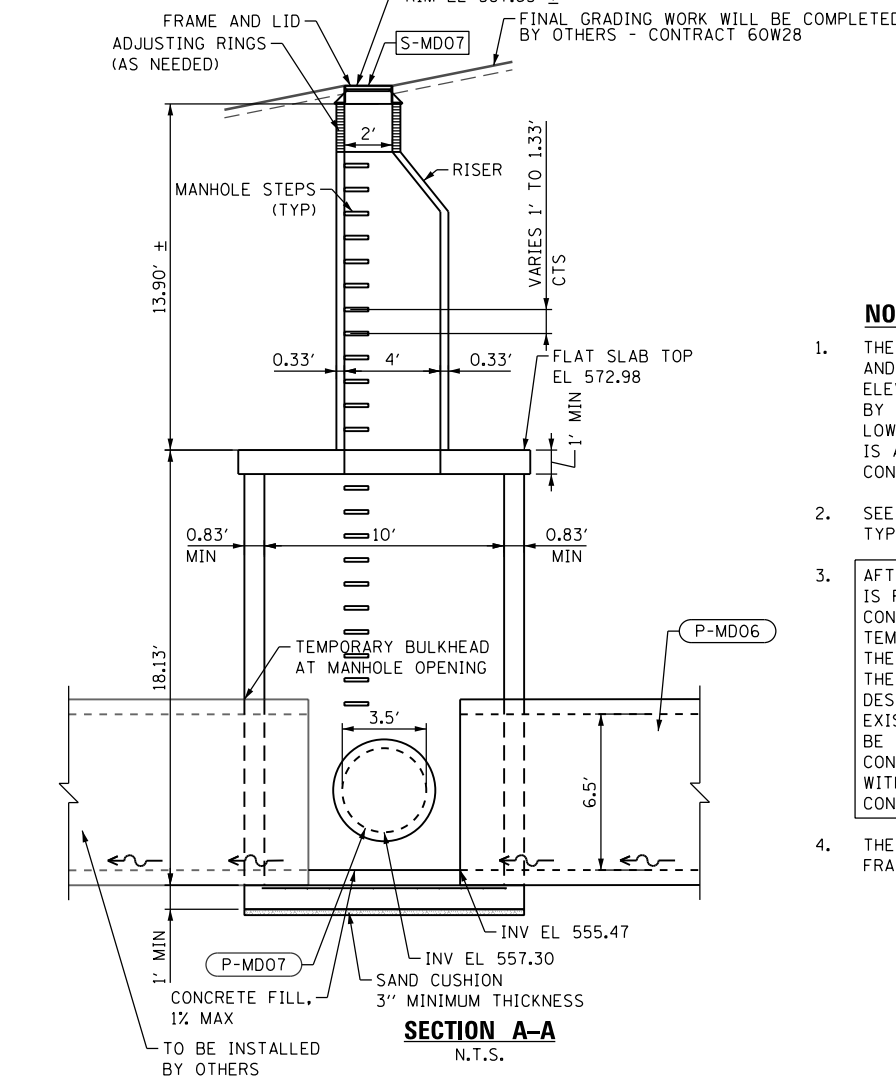
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	262A
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

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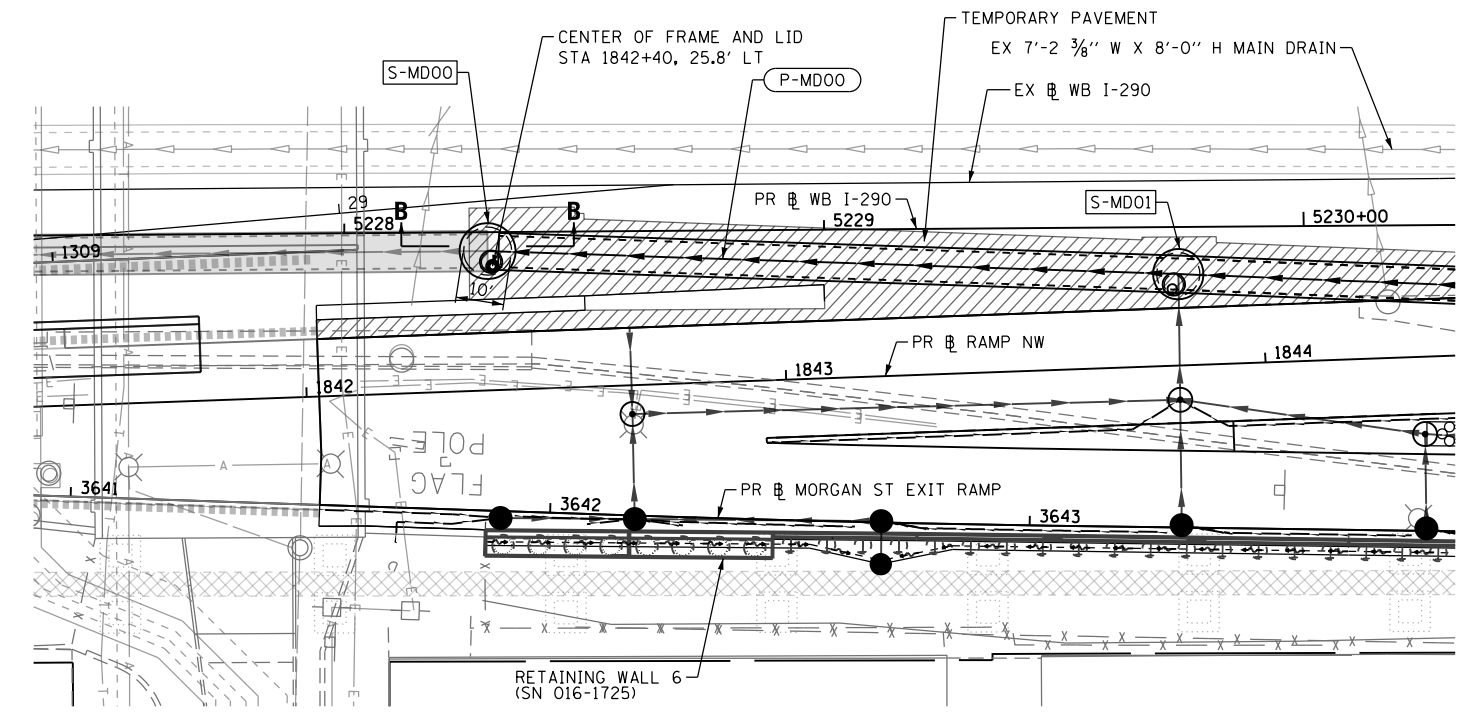
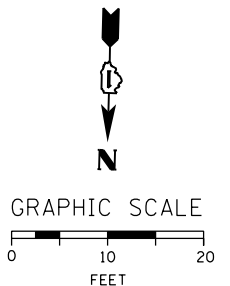
PLAN VIEW



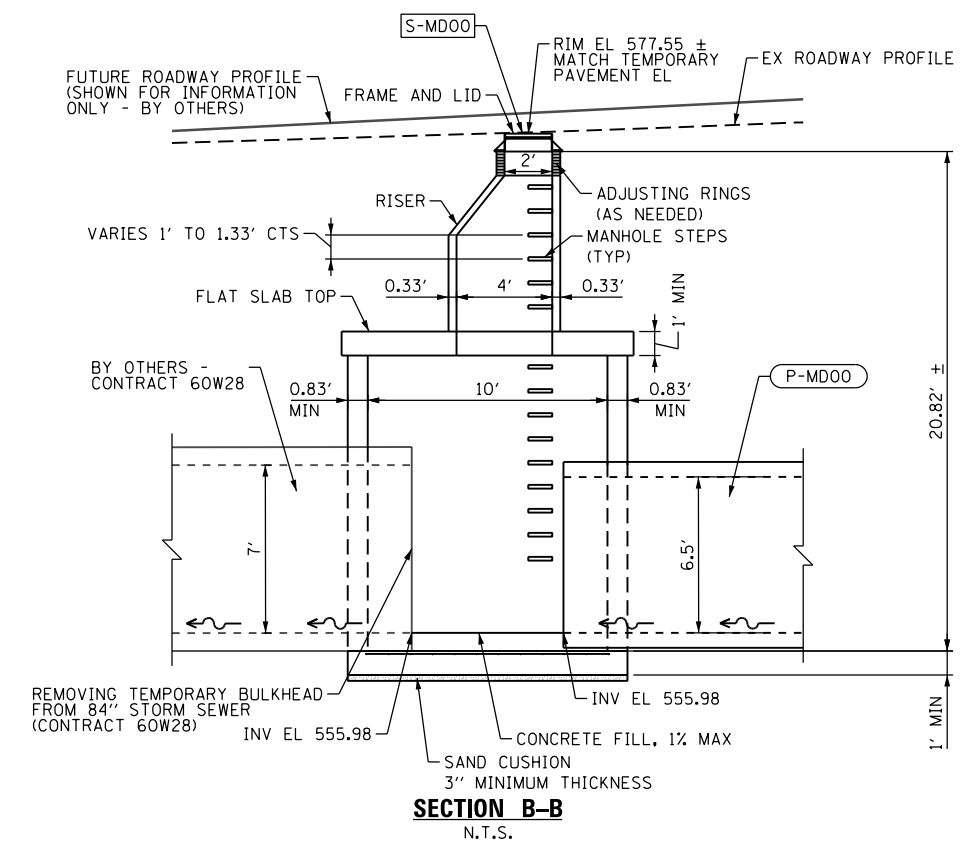
SECTION A-A
N.T.S.

NOTES:

1. THE EXCAVATION FOR THE INSTALLATION OF THE MANHOLE AND ADJACENT STORM SEWER SHALL BE BACKFILLED TO AN ELEVATION LOWER THAN EXISTING GROUND. PROPOSED GRADING BY OTHERS, UNDER CONTRACT 60W28, WILL RESULT IN A LOWER GRADE THAN EXISTING. THE PROPOSED RIM ELEVATION IS AT THE PROPOSED FINAL GRADE UNDER CONTRACT 60W28. CONTRACTOR COOPERATION IS REQUIRED.
2. SEE SPECIAL PROVISIONS "MANHOLES, TYPE A, 10'-DIAMETER, TYPE 1 FRAME, CLOSED LID" FOR ADDITIONAL INFORMATION.
3. AFTER THE MANHOLE IS INSTALLED AND THE 42" STORM SEWER IS FULLY CONNECTED TO THE EXISTING MAIN DRAIN, THE CONTRACTOR SHALL INSTALL SANDBAGS OR UTILIZE OTHER TEMPORARY MEASURES TO BLOCK WATER FROM ENTERING INTO THE PROPOSED STORM SEWER FROM THE EXISTING MAIN DRAIN. THE SANDBAGS OR OTHER MEASURES MUST BE ARRANGED AND DESIGNED TO SUFFICIENTLY RESIST 15' OF WATER FROM THE EXISTING MAIN DRAIN. THE TEMPORARY MEASURES SHALL NOT BE REMOVED UNTIL ALL PROPOSED MAIN DRAIN SEWER UNDER THIS CONTRACT AND CONTRACT 60W28 IS COMPLETED AND ACCEPTED WITH BULKHEADS REMOVED. THIS WORK IS INCIDENTAL TO THE CONTRACT.
4. THE CONTRACTOR SHALL ROTATE THE RISER AND PLACE THE FRAME AND LID AS SHOWN ON THE PLANS.



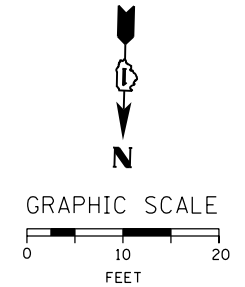
PLAN VIEW



SECTION B-B
N.T.S.

NOTES:

1. THE MANHOLE SHALL BE DESIGNED TO ALLOW FOR FUTURE ADJUSTMENTS. (THE FUTURE RIM ELEVATION WILL BE 578.34 ± - FOR INFORMATION ONLY.)
2. SEE SPECIAL PROVISIONS "MANHOLES, TYPE A, 10'-DIAMETER, TYPE 1 FRAME, CLOSED LID" FOR ADDITIONAL INFORMATION.
3. THE CONTRACTOR SHALL ROTATE THE RISER AND PLACE THE FRAME AND LID AS SHOWN ON THE PLANS.
4. THE RIM ELEVATION OF THE PROPOSED MANHOLES MAY NEED FIELD ADJUSTMENTS WITHIN THE TEMPORARY PAVEMENT LIMITS BASED ON FIELD CONDITIONS. THE COST OF THE ADJUSTMENT SHALL BE INCLUDED IN THE COST OF MANHOLES.



D160X61-shr-Drain-Detail-01
USER NAME = ChiuA
PLOT SCALE = 40.0000' / in.
PLOT DATE = 12/4/2014

DESIGNED - AFC
DRAWN - AFC
CHECKED - E E Y
DATE - 12/05/14

REVISED -
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REVISED -

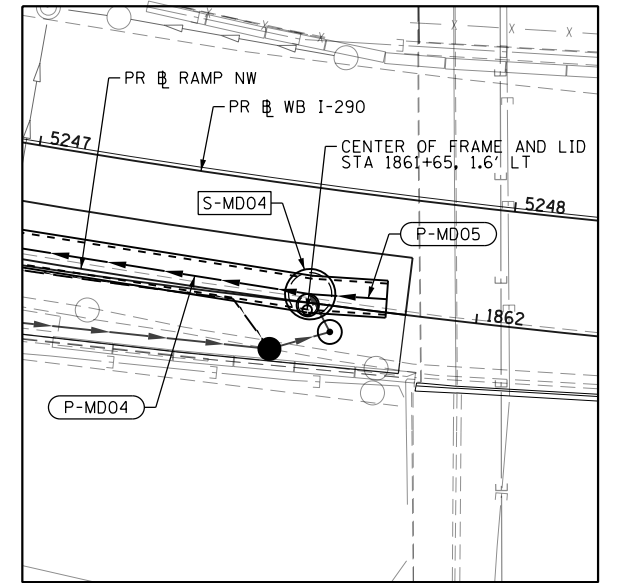
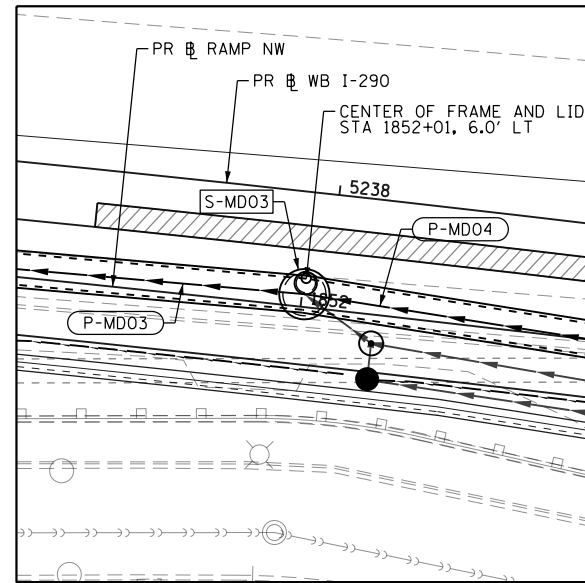
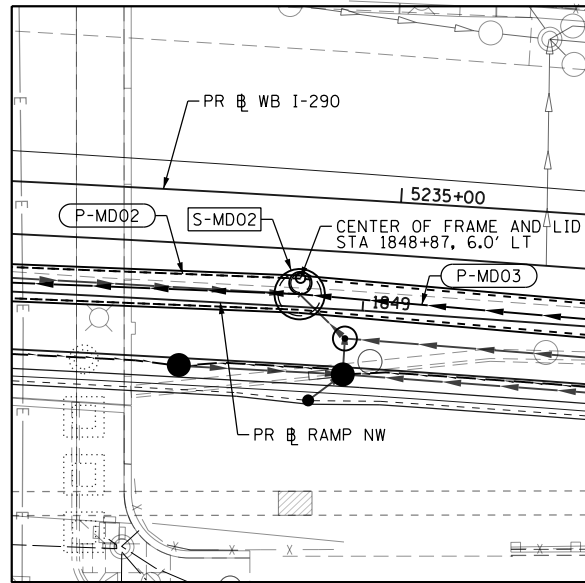
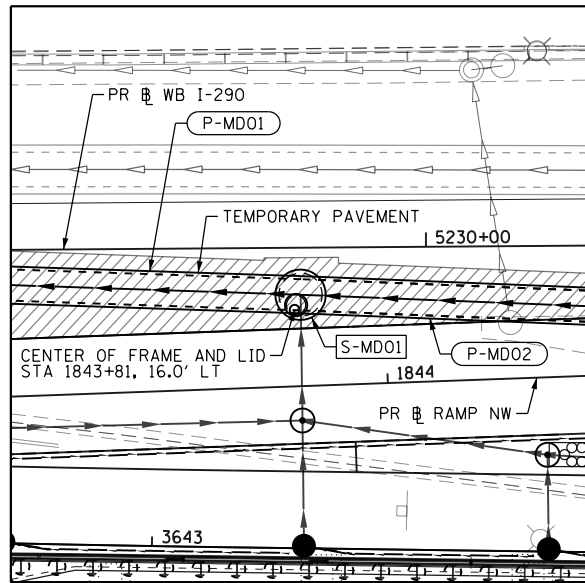
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
MANHOLE TYPE A, 10'-DIAMETER

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. TO STA.

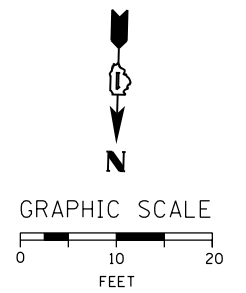
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	263
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

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NOTE:

1. THE CONTRACTOR SHALL ROTATE THE RISER AND PLACE THE FRAME AND LID AS SHOWN ON THE PLANS.
2. THE RIM ELEVATION OF THE PROPOSED MANHOLES MAY NEED FIELD ADJUSTMENTS WITHIN THE TEMPORARY PAVEMENT LIMITS BASED ON FIELD CONDITIONS. THE COST OF THE ADJUSTMENT SHALL BE INCLUDED IN THE COST OF MANHOLES.



D160X61-shd-Drain-Detail-01A
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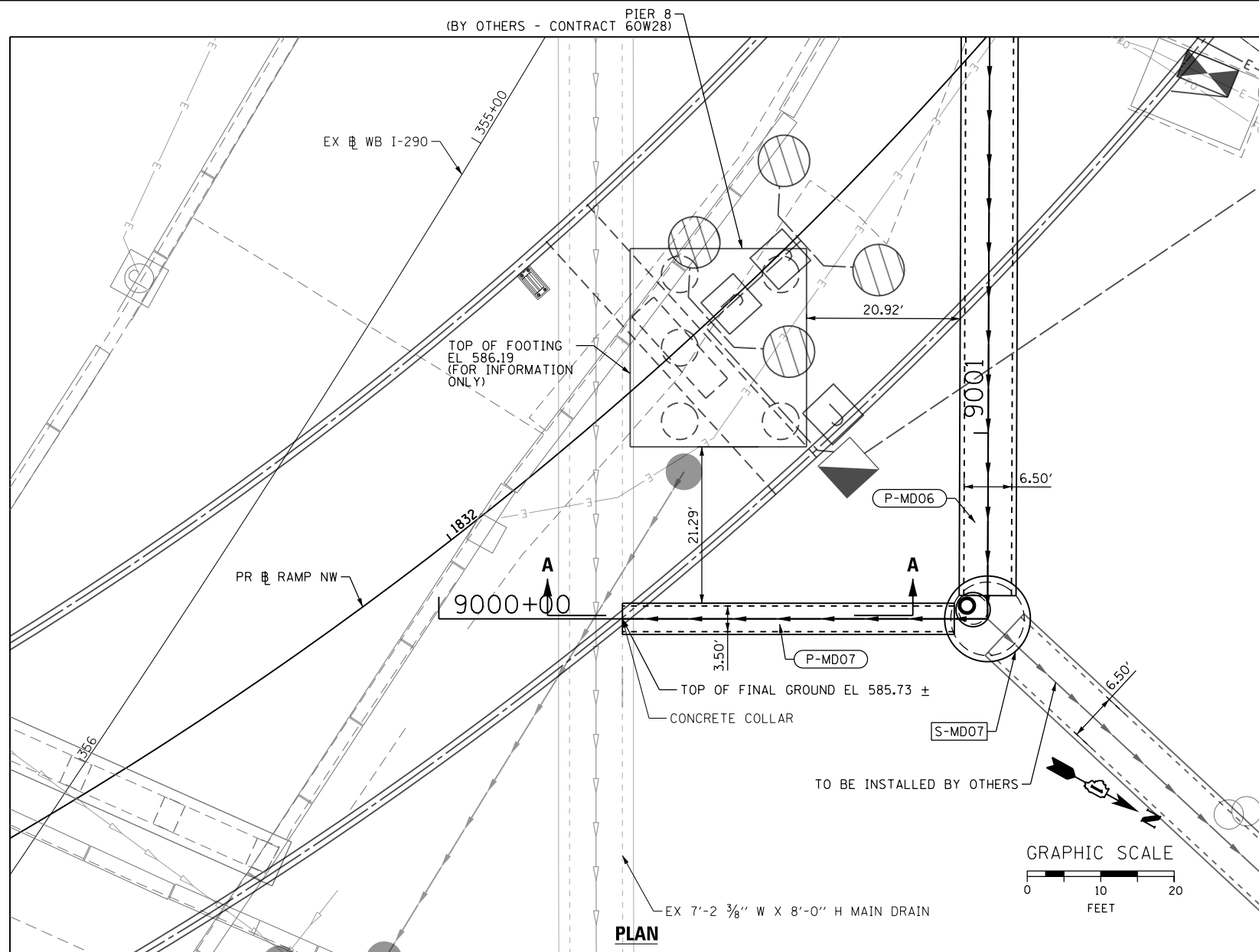
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
 MANHOLES - FRAME AND LID

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

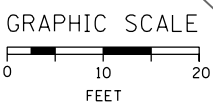
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	264
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

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NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY TOP AND BOTTOM ELEVATION OF THE EXISTING 7'- 2 3/8" W X 8'-0" H MAIN DRAIN.
2. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE SHALL BE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY VARIATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN, INSTALLATION AND REMOVAL OF TEMPORARY STRUCTURES REQUIRED TO PERFORM THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES THAT MUST REMAIN IN SERVICE. SUBMIT DESIGN AND DETAILS, SEALED AND SIGNED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. THE DESIGN AND DETAILS SHALL AVOID ANY IMPACTS AND PROVIDE PROTECTION TO THE FOOTING AND DRILLED SHAFTS OF PIER 8 AS IDENTIFIED ON THE PLANS. ALL TEMPORARY STRUCTURES OR TEMPORARY SUPPORT OF EXISTING UTILITIES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONCRETE COLLAR AND/OR PROPOSED STORM SEWER CONNECTING TO THE EXISTING MAIN DRAIN VIA THE CONCRETE COLLAR.
4. THE EXISTING MAIN DRAIN SHALL BE IN SERVICE DURING CONSTRUCTION AND THE CONTRACTOR SHALL DIVERT FLOW FROM THE MAIN DRAIN. THE EXISTING MAIN DRAIN MAY HAVE SIGNIFICANT FLOWS AND IS HIGHLY WEATHER DEPENDENT. TEMPORARY PUMPING, FLOW DIVERSION, OR OTHER METHODS SHALL BE CONSIDERED FOR DIVERTING FLOW OF THE EXISTING MAIN DRAIN. THIS WORK IS INCIDENTAL TO THE CONTRACT.
5. THE CONTRACTOR SHALL SAW CUT THE EXISTING MAIN DRAIN TO ALLOW CONNECTION OF THE PROPOSED STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO THE EXISTING MAIN DRAIN. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING MAIN DRAIN SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTORS' OWN EXPENSE AND TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
6. ALL CONSTRUCTION DEBRIS IN THE EXISTING MAIN DRAIN SHALL BE CAREFULLY CLEARED AND CLEANED AND CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. THE COST OF CLEARING AND CLEANING OF DEBRIS WILL BE INCLUDED IN THE COST OF CONCRETE COLLAR.
7. THE CONTRACTOR MAY ACCESS THE EXISTING MAIN DRAIN FROM ACCESS MANHOLE #2 AS SHOWN ON SHEET NO.86 OR JUNCTION STRUCTURE ACCESS MANHOLE AS SHOWN ON SHEET NO. 89 .
8. THE CONCRETE COLLAR AND PROPOSED 42" STORM SEWER OUTLET PIPE SHALL BE FORMED TO MATCH THE EXISTING MAIN DRAIN. THE FLOW LINE SHALL BE CONSISTENT FROM THE PROPOSED PIPE INTO THE MAIN DRAIN.
9. CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH F'C OF 4000 PSI.
10. ALL REINFORCING BARS SHALL BE EPOXY COATED AND CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.
11. UNLESS OTHERWISE SHOWN, THE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
A. CONCRETE CAST AGAINST PERMANENTLY EXPOSE EARTH: 3"
B. ALL OTHER REINFORCING BARS: 2"
12. THE EXCAVATION FOR THE INSTALLATION OF THE MANHOLE AND ADJACENT SEWER SHALL BE BACKFILLED TO AN ELEVATION LOWER THAN EXISTING GROUND. PROPOSED GRADING BY OTHERS, UNDER CONTRACT 60W28, WILL RESULT IN A LOWER FINAL GRADE THAN EXISTING. CONTRACTOR COOPERATION IS REQUIRED.

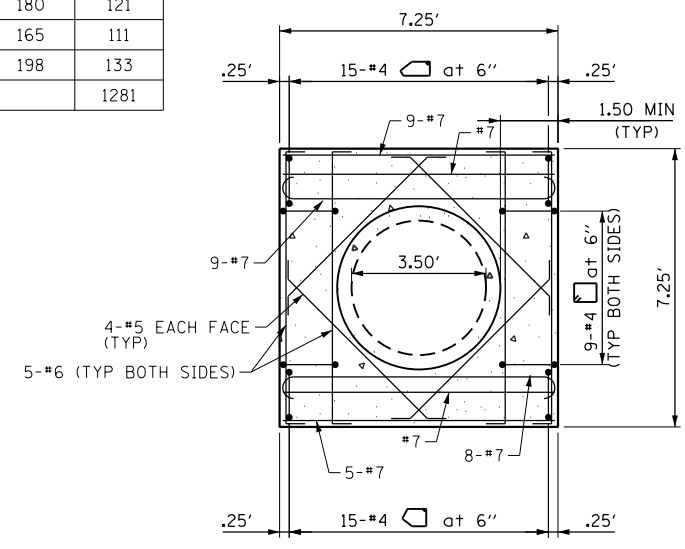
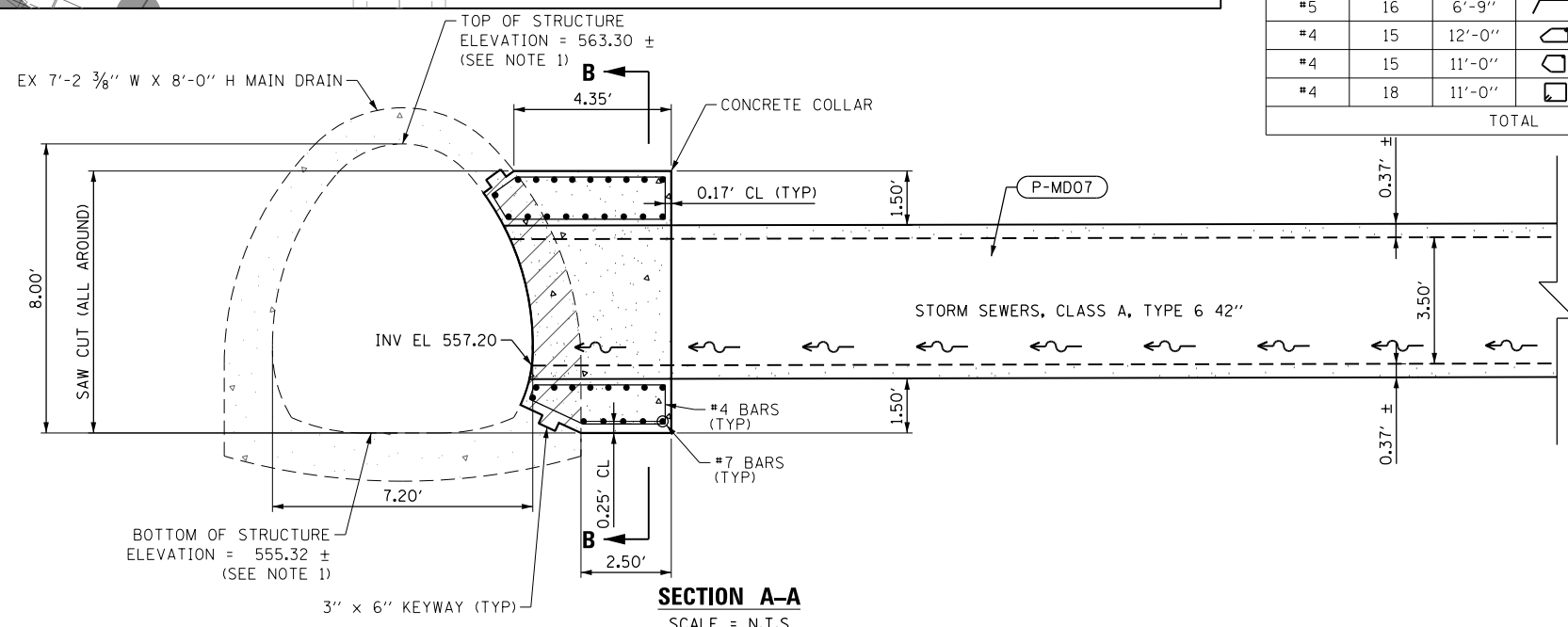


REINFORCEMENT BARS, EPOXY COATED

SIZE	NO.	LENGTH (FT)	SHAPE	WEIGHT (LBS/FT)	TOTAL LENGTH (FT)	TOTAL WEIGHT (LBS)
#7	16	7'-0"	—	2.044	112	229
#7	17	8'-8"	⌋	2.044	148	303
#6	20	9'-0"	⌋	1.502	180	271
#5	16	6'-9"	⌋	1.043	108	113
#4	15	12'-0"	⌋	0.668	180	121
#4	15	11'-0"	⌋	0.668	165	111
#4	18	11'-0"	⌋	0.668	198	133
TOTAL					1281	1281

TOTAL BILL OF MATERIALS

	TOTAL	UNIT
CONCRETE COLLAR	6.5	CU YD
REINFORCEMENT BARS, EPOXY COATED	1281	POUND



D160X61-shr-Drain-Detail-02.dgn
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 PLOT SCALE = 10.0000 "/>

DESIGNED - DD
 DRAWN - AFC
 CHECKED - BMR
 DATE - 10/17/14

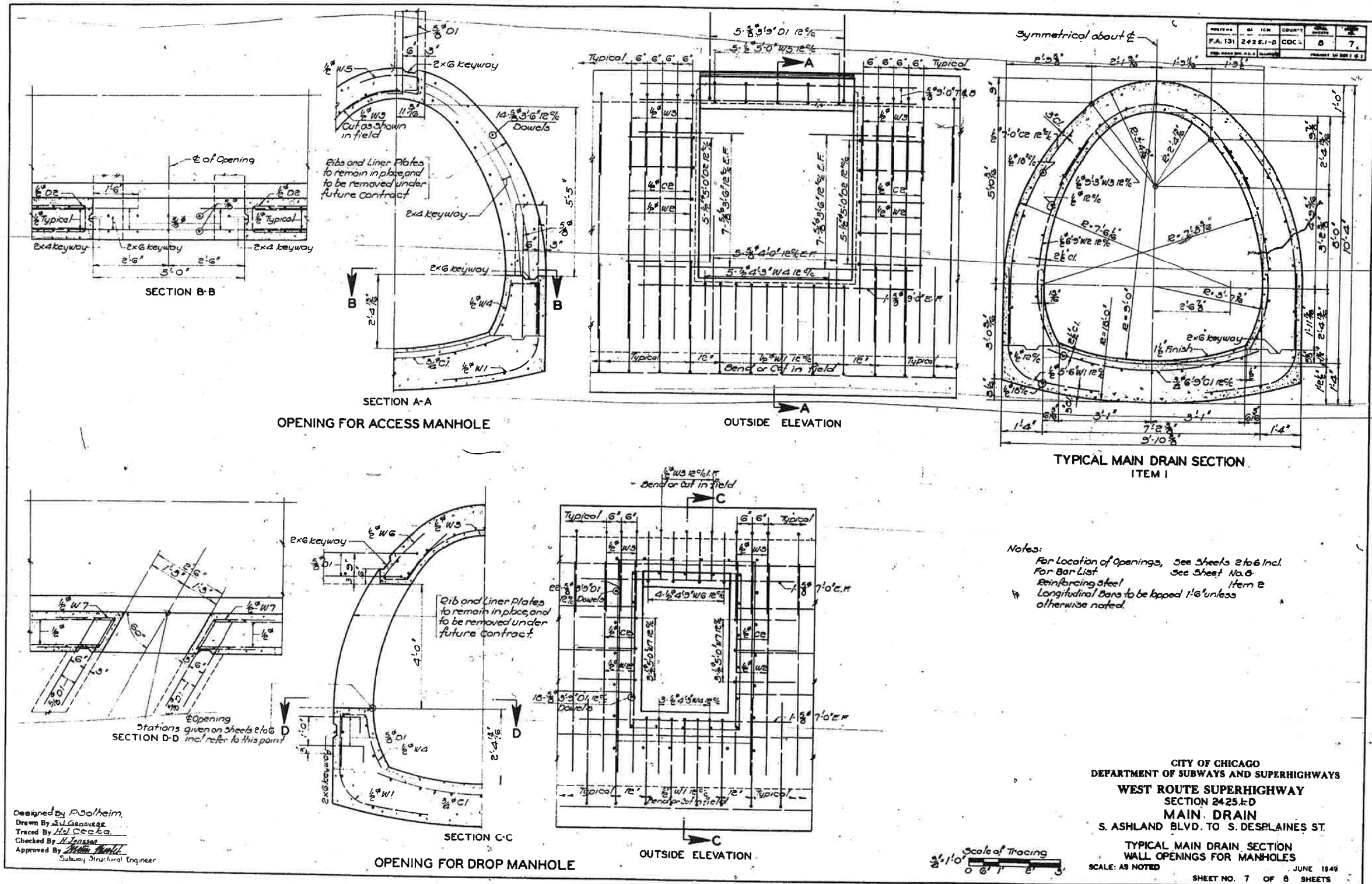
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAIL
 CONCRETE COLLAR FOR EXISTING MAIN DRAIN AND PROPOSED PIPE
 SCALE: N.T.S SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. R.T.E. 90/94/290
 SECTION 2013-077R
 COUNTY COOK
 TOTAL SHEETS 317
 SHEET NO. 265
 CONTRACT NO. 60X61
 ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



Notes:
 For Location of Openings, See Sheets 2 to 6 Incl.
 For Bar List See Sheet No. 8
 Reinforcing steel
 Longitudinal Bars to be lapped 1'-6" unless
 otherwise noted.

CITY OF CHICAGO
 DEPARTMENT OF SUBWAYS AND SUPERHIGHWAYS
 WEST ROUTE SUPERHIGHWAY
 SECTION 2425+D
 MAIN DRAIN
 S. ASHLAND BLVD. TO S. DESPLAINES ST.
 TYPICAL MAIN DRAIN SECTION
 WALL OPENINGS FOR MANHOLES
 SCALE: AS NOTED
 JUNE 1949
 SHEET NO. 7 OF 8 SHEETS

Designed by Poolheim,
 Drawn by J.J. Geavette
 Traced by H.J. Costa
 Checked by H. Johnson
 Approved by [Signature]
 Subway Structural Engineer

FILE PATH = F:\WORK\Cable Interchange\60X61_Aux_Lane\Printing\20141015-60X61-Final\0160X61-shd-Drain-Ex-MD-Detail-01.dgn



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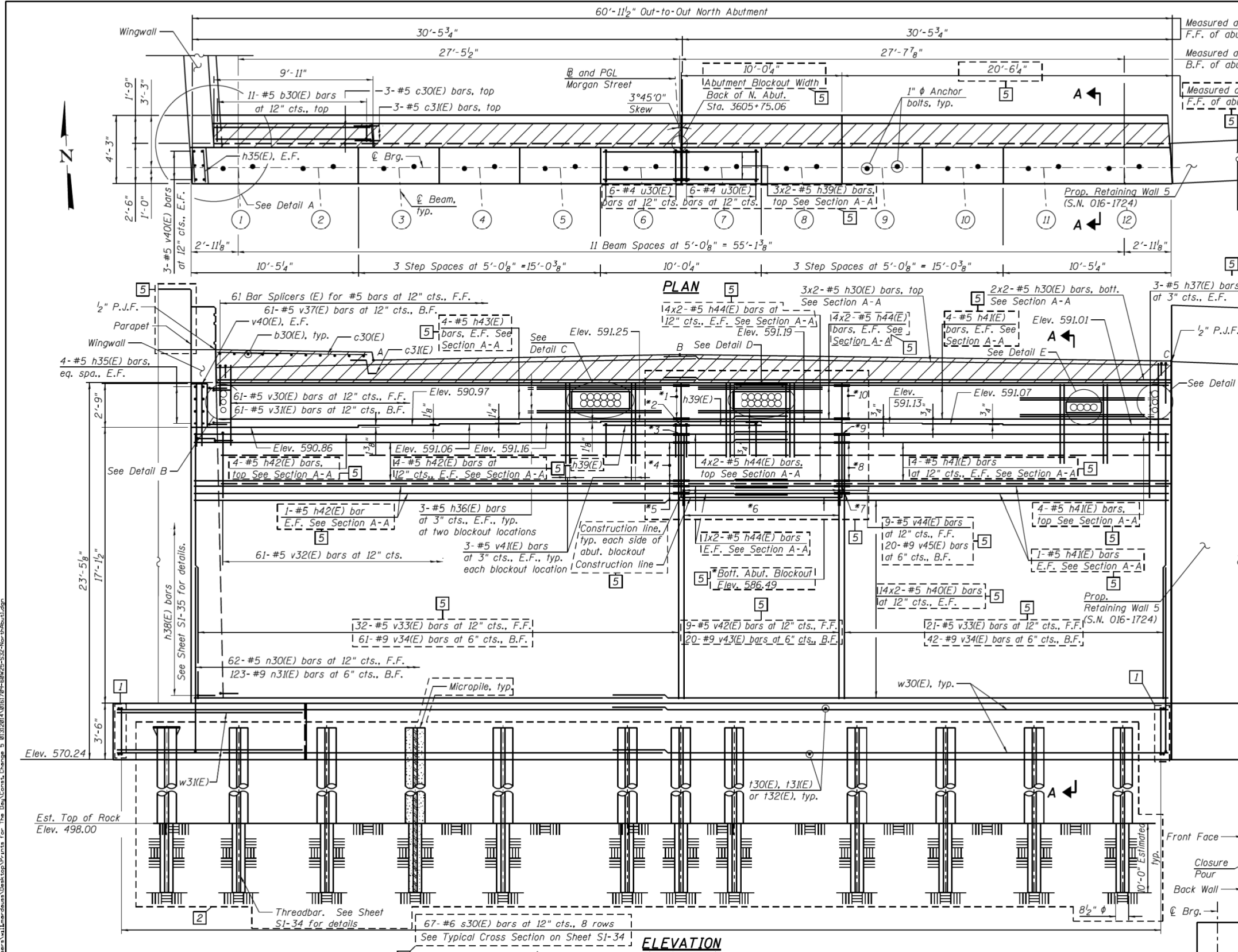
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DATE - 10/17/14	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

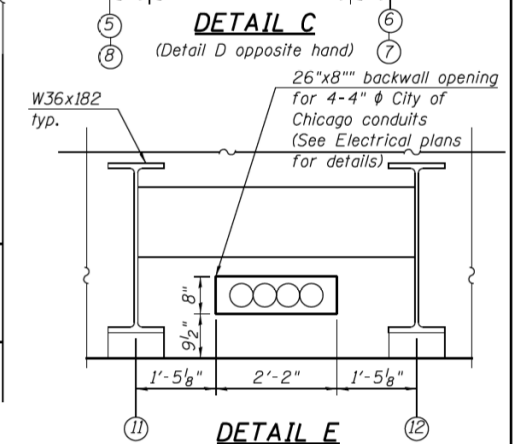
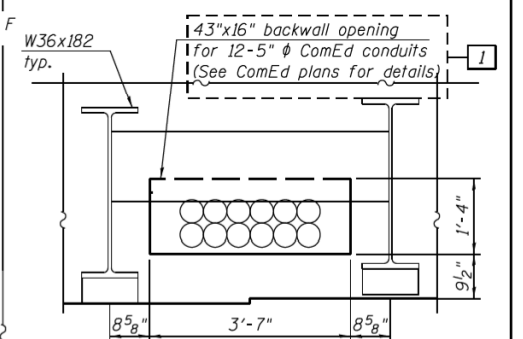
EXISTING MAIN DRAIN TYPICAL SECTION PLAN
 SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	266
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY
DESIGN DRAWING MAY NOT REFLECT AS-BUILT CONDITIONS**



- NOTES:**
1. For Section A-A, see Sheet S1-34.
 2. For Details A, B and F, see Sheet S1-33.
 3. For wingwall reinforcement and details, see Sheet S1-35.
 4. For anchor bolt layout plan, see Sheet S1-25.
 5. For location of ITS, lighting and City of Chicago conduits, see lighting plans. The Contractor shall coordinate the locations of ComEd conduits with the ComEd plans and ComEd Contractor.
- 1 4 Bar Splicers (E) for #5 h43(E)/h44(E) bars, E.F.
 2 3 Bar Splicers (E) for #5 h39(E) bars, top
 3 4 Bar Splicers (E) for #5 h42(E)/h44(E) bars, top
 4 4 Bar Splicers (E) for #5 h42(E)/h44(E) bars, E.F.
 5 2 Bar Splicers (E) for #5 h42(E)/h44(E) bars, E.F.
 6 9 Bar Splicers (E) for #5 v42(E)/v44(E) bars, F.F.
 7 20 Bar Splicers (E) for #9 v43(E)/v45(E) bars, B.F.
 8 2 Bar Splicers (E) for #5 h41(E)/h44(E) bars, E.F.
 9 4 Bar Splicers (E) for #5 h41(E)/h44(E) bars, E.F.
 10 4 Bar Splicers (E) for #5 h41(E)/h44(E) bars, top
- *Bottom of abutment blackout elevations are to be coordinated with the ϕ of the reveal, see Sheet S1-36



TOP OF BACKWALL (CLOSURE POUR) ELEVATIONS

POINTS	FRONT FACE	BACK FACE
A - West Curb Line	595.13	595.07
B - Crown	595.48	595.42
C - E. Edge of Abut.	595.08	595.02

HBM 4415 WEST HARRISON ST. SUITE 231 NILES, IL 60562 PHONE: (708) 238-0900 FAX: (708) 238-0901	@161709-60W25-532-Nor Abut.dgn USER NAME = wallmardeuss PLOT SCALE = 6/8" = 1' = 1/4" PLOT DATE = 1/30/2014	DESIGNED - MI, MAF DRAWN - LAB, MAF CHECKED - MI, MI, WM DATE - 6/17/2013	REVISED - 07/19/2013 MI, JJS REVISED - 08/30/2013 MI, JJS REVISED - 12/16/2013 DF REVISED - 01/31/2014 MI, WM	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT PLAN AND ELEVATION STRUCTURE NO. 016-1709	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 176 CONTRACT NO. 60W25
	Entire sheet revised (Looking North)				SCALE: SHEET S1-32 OF 51 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT



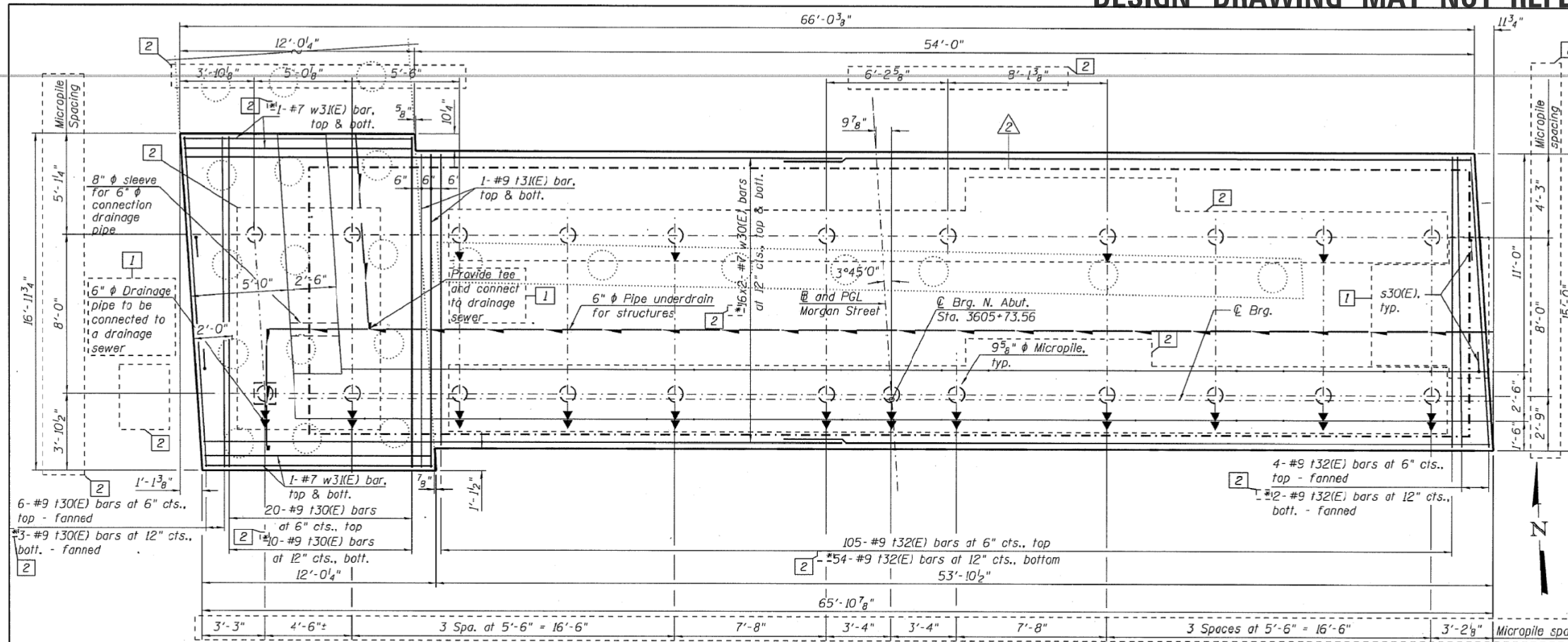
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

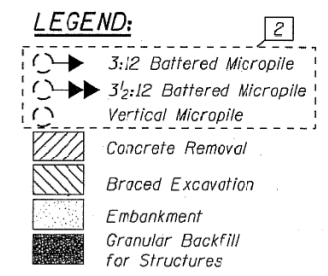
EXISTING MORGAN STREET BRIDGE PLANS SN 016-1709 (FOR INFORMATION ONLY)	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.
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F.A.I. RTE. 90/94/290 SECTION 2013-077R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 267 CONTRACT NO. 60X61 ILLINOIS FED. AID PROJECT

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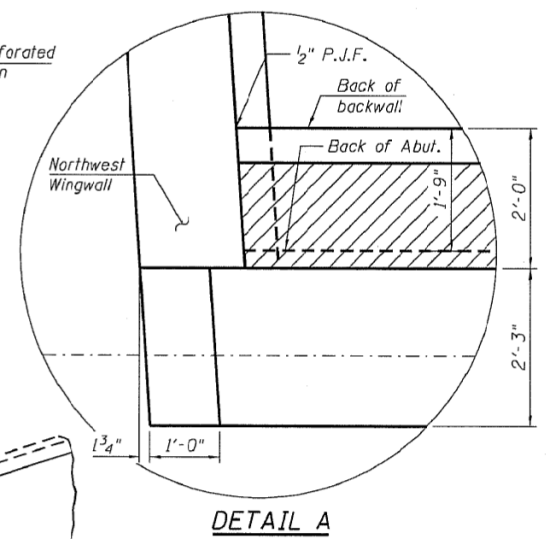
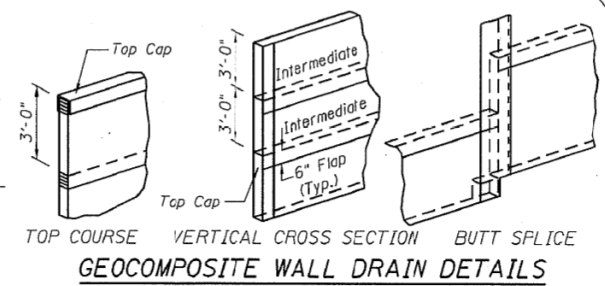
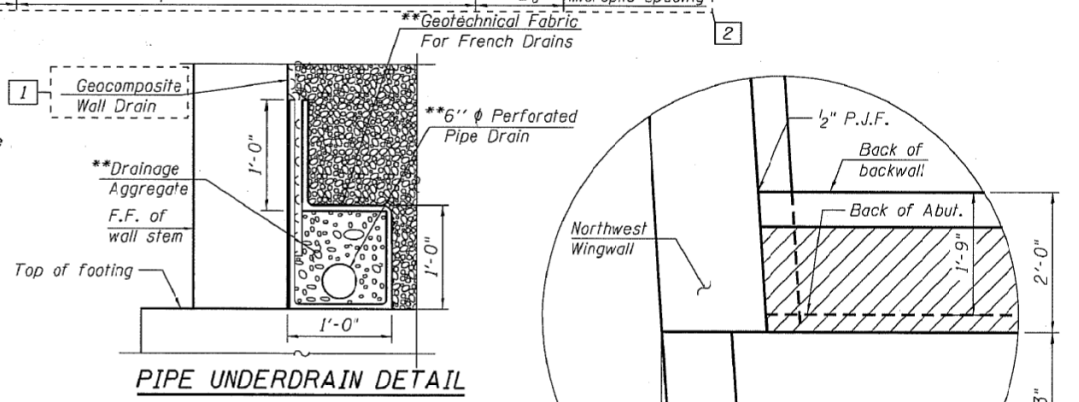
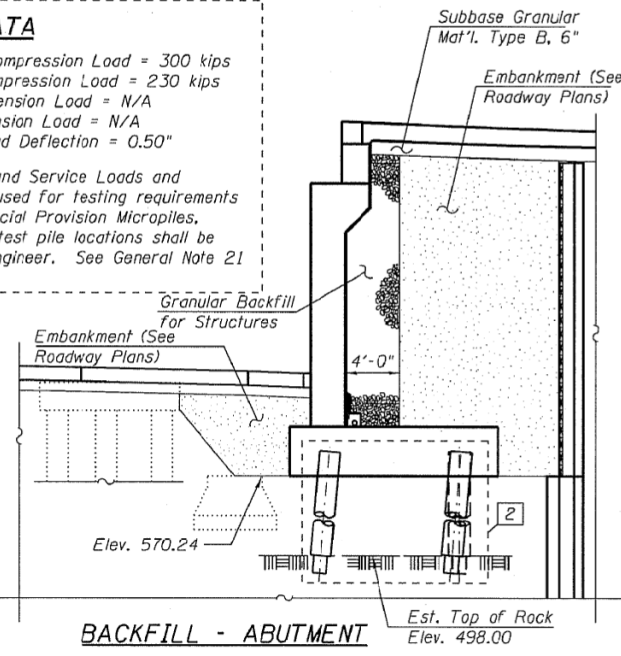
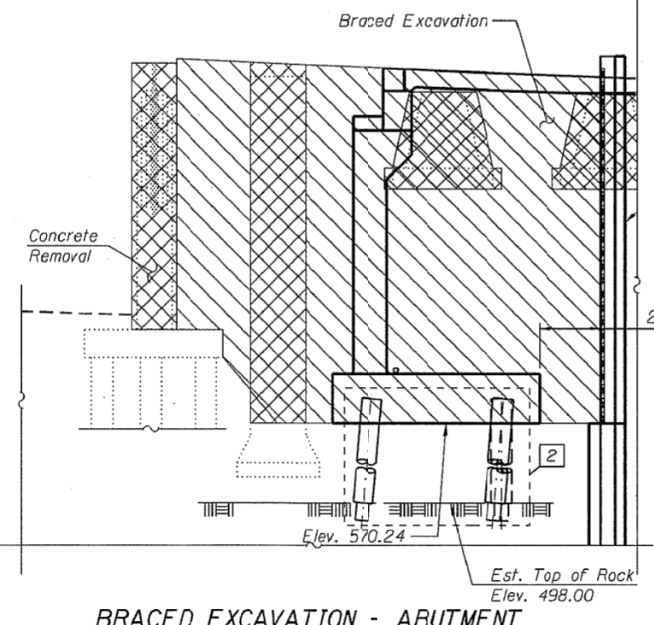
- NOTES:**
1. Reinforcement bars designated (E) shall be epoxy coated.
 2. Bars noted thus 3x2-#5 indicates 3 lines of bars with 2 bars per line.
 3. Driving piles and temporary sheet piling are not allowed.
 4. For Bill of Materials, see Sheet SI-34.
 5. For existing pile removal details, see Sheet SI-09.
 6. Space footing reinforcement to miss micropiles.
 7. For wingwall braced excavation and backfill details, see Sheet SI-35.



MICROPILE DATA

Maximum Factored Compression Load = 300 kips
 Maximum Service Compression Load = 230 kips
 Maximum Factored Tension Load = N/A
 Maximum Service Tension Load = N/A
 Maximum Service Load Deflection = 0.50"

Note: The Factored and Service Loads and deflections shall be used for testing requirements according to the Special Provision Micropiles, Special. The proof test pile locations shall be determined by the Engineer. See General Note 21 on Sheet SI-03.



HBM ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	#161789-68W25-533-NorAbut2.dgn USER NAME = willmarclass PLOT SCALE = #SCALE# PLOT DATE = #DATE#	DESIGNED - MI, MAF DRAWN - LAB, MAF CHECKED - MAI, MI, WM DATE - 6/17/2013	REVISIONS: 07/19/2013 MI, LAB 07/30/2013 MI, LAB 08/30/2013 MI, LAB 12/16/2013 DF
	Entire sheet revised		
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
	NORTH ABUTMENT FOOTING PLAN AND SECTIONS STRUCTURE NO. 016-1709		

SCALE: SHEET 51-33 OF 51 SHEETS STA. TO STA.	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 177 CONTRACT NO. 60W25
ILLINOIS FED. AID PROJECT	



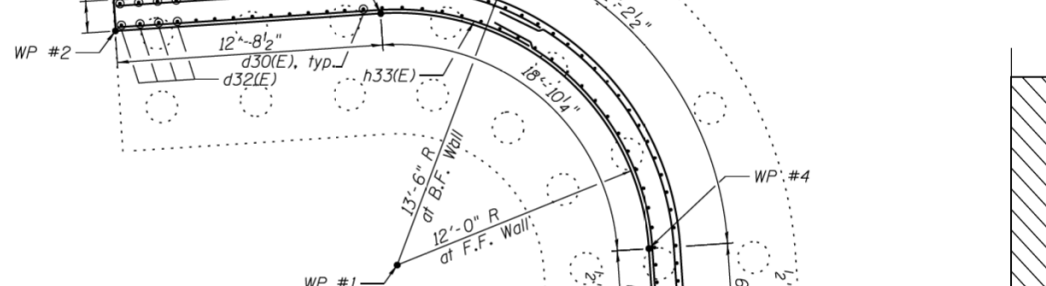
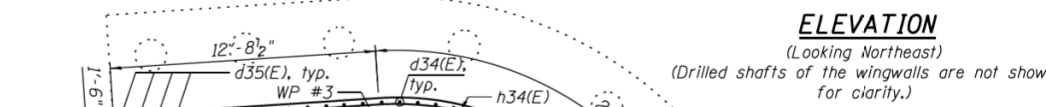
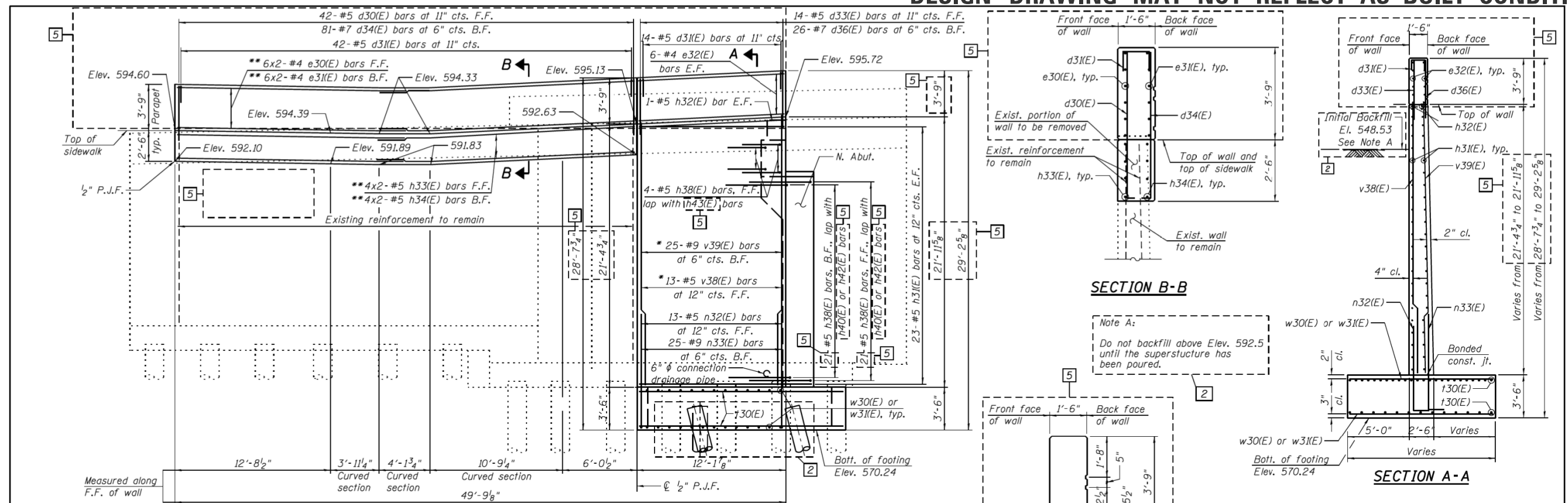
D160X61-sht-Abuilt-02.dgn USER NAME = pimsarno PLOT SCALE = 2.0000' / in. PLOT DATE = 12/4/2014	DESIGNED - OPS DRAWN - OPS CHECKED - DBM DATE - 12/05/14	REVISED - REVISED - REVISED - REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	EXISTING MORGAN STREET BRIDGE PLANS SN 016-1709 (FOR INFORMATION ONLY)
ILLINOIS FED. AID PROJECT	

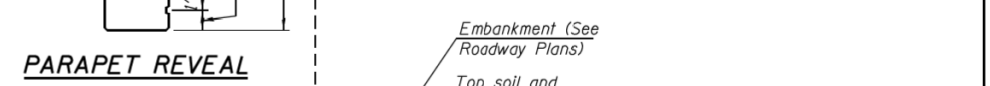
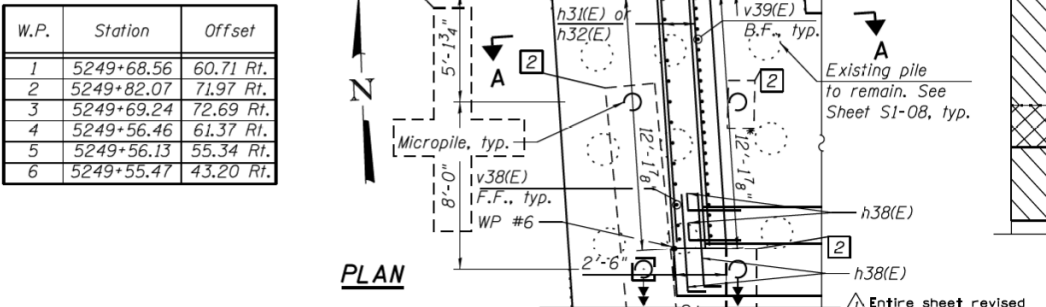
F.A.I. RTE. 90/94/290 SECTION 2013-077R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 268 CONTRACT NO. 60X61
ILLINOIS FED. AID PROJECT

**FOR INFORMATION ONLY
DESIGN DRAWING MAY NOT REFLECT AS-BUILT CONDITIONS**



WORKING POINT TABLE
(Stations and offsets measured from proposed W.B. I-290)

W.P.	Station	Offset
1	5249+68.56	60.71 Rt.
2	5249+82.07	71.97 Rt.
3	5249+69.24	72.69 Rt.
4	5249+56.46	61.37 Rt.
5	5249+56.13	55.34 Rt.
6	5249+55.47	43.20 Rt.



LEGEND:

	Concrete Removal
	Braced Excavation
	Granular Backfill for Structures
	Embankment

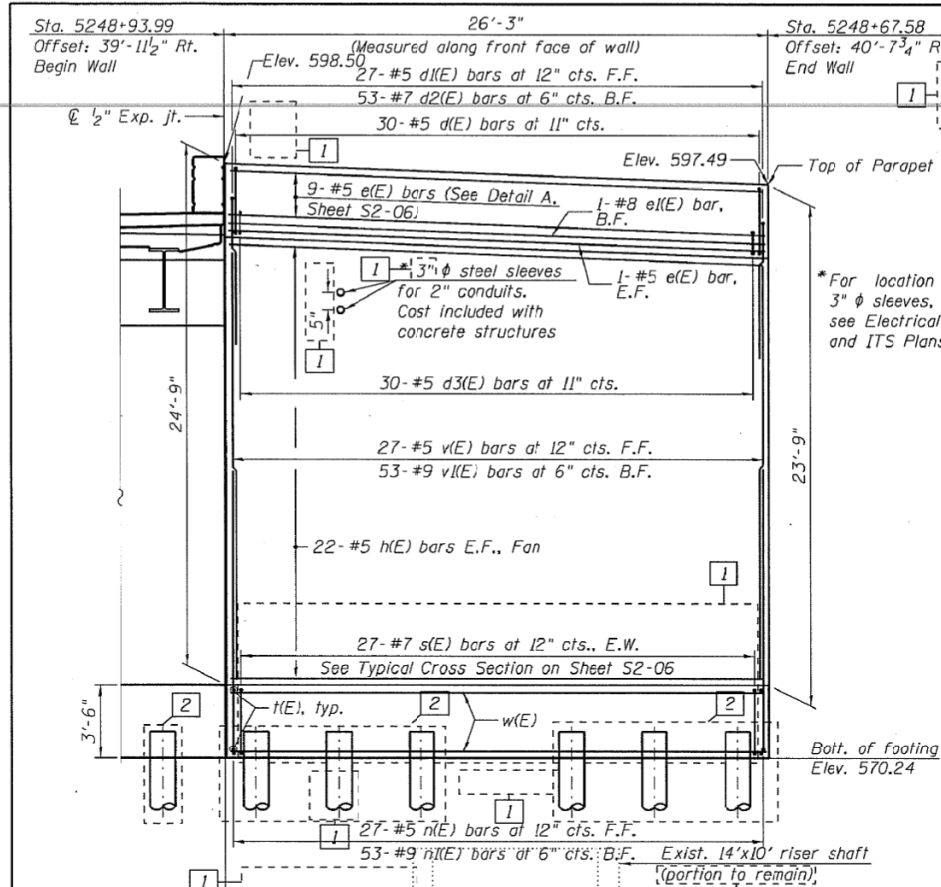
- NOTES:**
- Reinforcement bars designated (E) shall be epoxy coated.
 - Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 bars per line.
 - For drilled shaft details and Bill of Materials, see Sheet SI-34.
 - Concrete required for parapet shall be included with Concrete Superstructure.
 - For geocomposite wall drain details, and pipe underdrain detail, see Sheet SI-33.
 - For reveal details, see Sheet SI-36.

HBM 4415 WEST HARRISON ST. SUITE 231 HELLGROVE, IL 60152 PHONE: (708) 238-0900 FAX: (708) 238-0901	@161709-60W25-535-Nor Abutment.dgn USER NAME = wallmardeuss PLOT SCALE = 8x8 1/2" / 1"	DESIGNED - MI, MAF DRAWN - LAB, MAF CHECKED - MAI, MI, WM DATE - 6/17/2013	REVISED - 07/19/2013 MI, LAB REVISED - 12/16/2013 DF REVISED - 01/31/2014 MI, LAB REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT WINGWALLS STRUCTURE NO. 016-1709	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 179
	PLOT DATE = 1/30/2014	ENTIRE SHEET REVISED	SCALE: SHEET S1-35 OF 51 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60W25	ILLINOIS FED. AID PROJECT

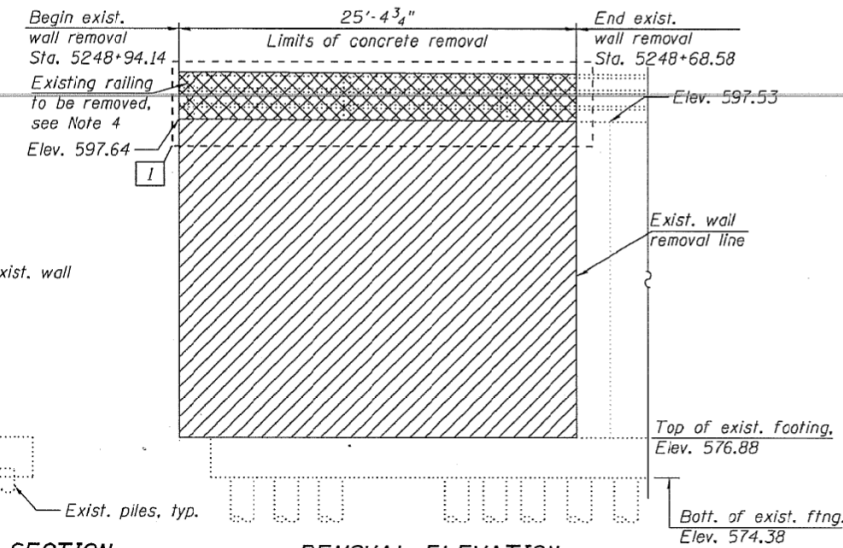
AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-1700 FAX: (312) 373-6800	D160X61-sht-AsBuilt-04.dgn USER NAME = pimsarno PLOT SCALE = 2.0000' / 1"	DESIGNED - OPS DRAWN - OPS CHECKED - DBM DATE - 12/05/14	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING MORGAN STREET BRIDGE PLANS SN 016-1709 (FOR INFORMATION ONLY)	F.A.I. RTE. 90/94/290 SECTION 2013-077R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 268B
	PLOT DATE = 12/4/2014	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60X61	ILLINOIS FED. AID PROJECT	

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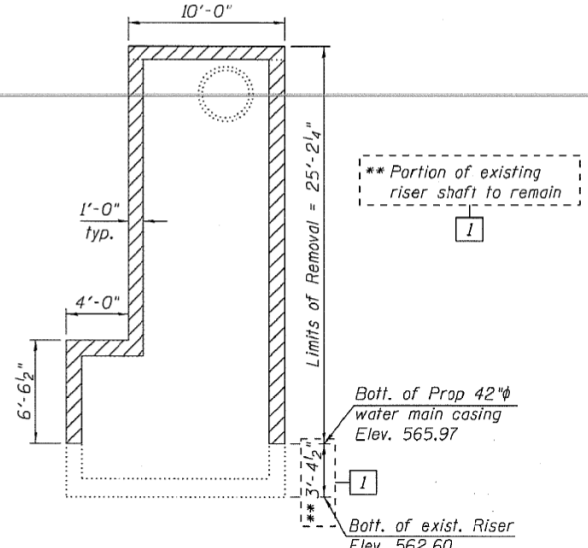
**FOR INFORMATION ONLY
DESIGN DRAWING MAY NOT REFLECT AS-BUILT CONDITIONS**



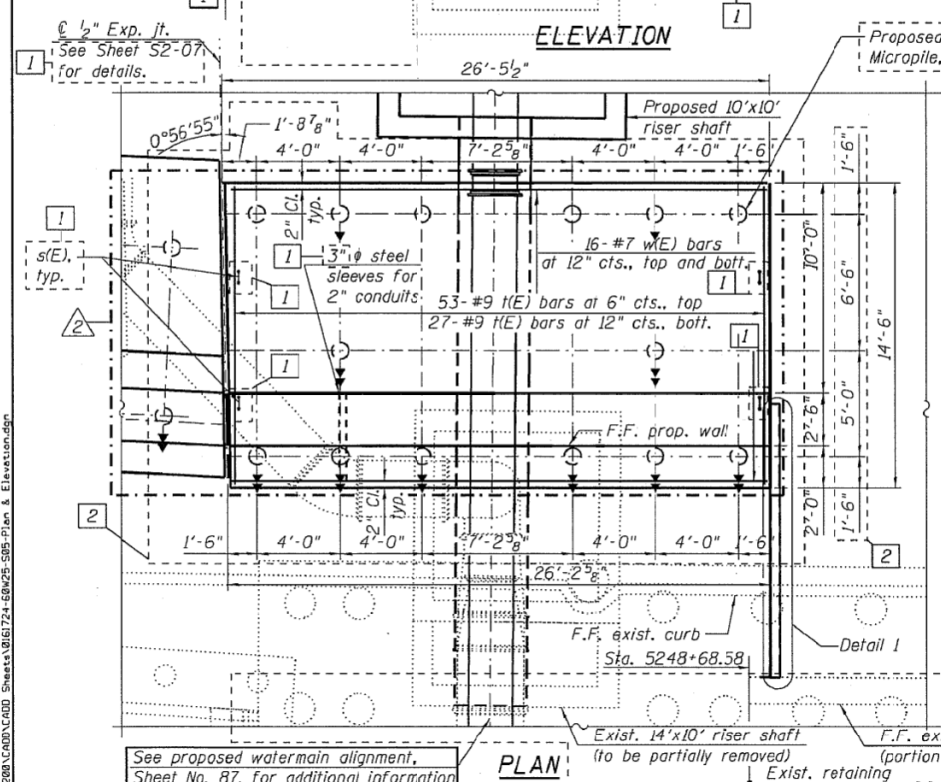
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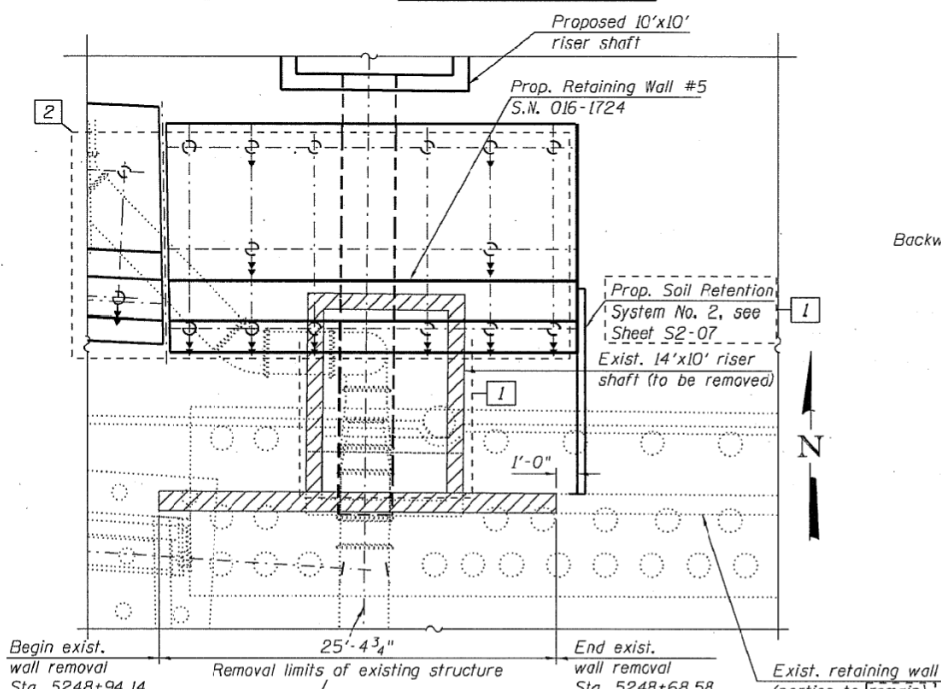
REMOVAL ELEVATION



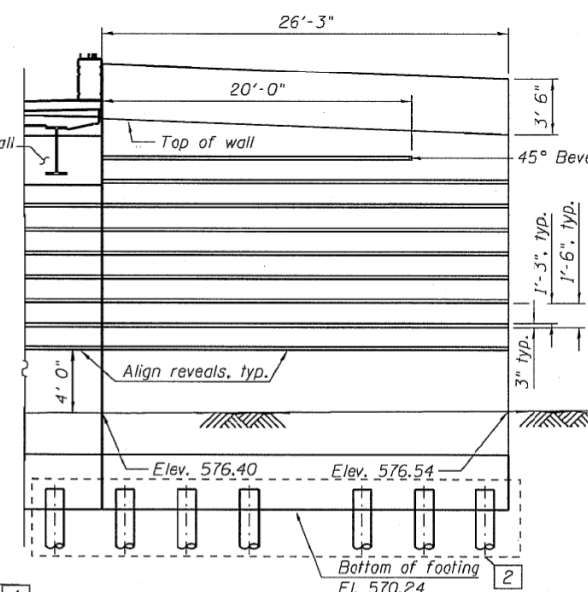
**EXIST. RISER SHAFT
REMOVAL ELEVATION**



ELEVATION



REMOVAL PLAN



ARCHITECTURAL ELEVATION

NOTES:

1. For sections, details, lap splices and bill of material. See Sheet S2-06.
2. All existing piles are 18" ϕ concrete piles.
3. For Detail 1, Soil Retention System (No. 2), See Sheet S2-07.
4. Cost for removal of existing railing shall be included with "Concrete Removal".
5. Existing footings and portions of existing piles to be removed in a future contract.
6. See Sheet S2-02 for additional micropile requirements.

SCOPE OF WORK FOR RETAINING WALL 5:

1. Remove portion of the wall stem interfering with the riser shaft construction as shown on the Removal Plan and Removal Elevation.
2. Construct the wall, micropiles, footing stem and parapet.
3. Backfill as shown on Sheet S2-07.
4. Apply Protective Coat per limits shown on the Typical Wall Section on Sheet S2-06.
5. The remainder of the wall stem, footing and portion of piles interfering with the new future contracts construction will be included in a future contract.
6. The 3" x 1 3/4" reveal will not be paid separately and shall be included in the cost of the pay item "Concrete Structures".

LEGEND:

- B.F. - denotes Back Face
- E.F. - denotes Each Face
- F.F. - denotes Front Face
- 3:12 Battered Micropile
- 3:12 Battered Micropile
- Vertical Micropile
- Concrete Removal
- Existing Railing Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	CU YD	68.0

DESIGNED - MI, MAF, JJS	REVISOR - MI, WM
DRAWN - JJS, MAF	REVISOR - MI, LAB
CHECKED - MAL, MI, LAB	REVISOR - MI, JJS
DATE - 6/17/2013	REVISOR - MI, DF

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WALL PLAN & ELEVATION, REM. PLAN & ELEVATION, & REVEAL DETAILS
RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT**

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 200
CONTRACT NO. 60W25				ILLINOIS FED. AID PROJECT



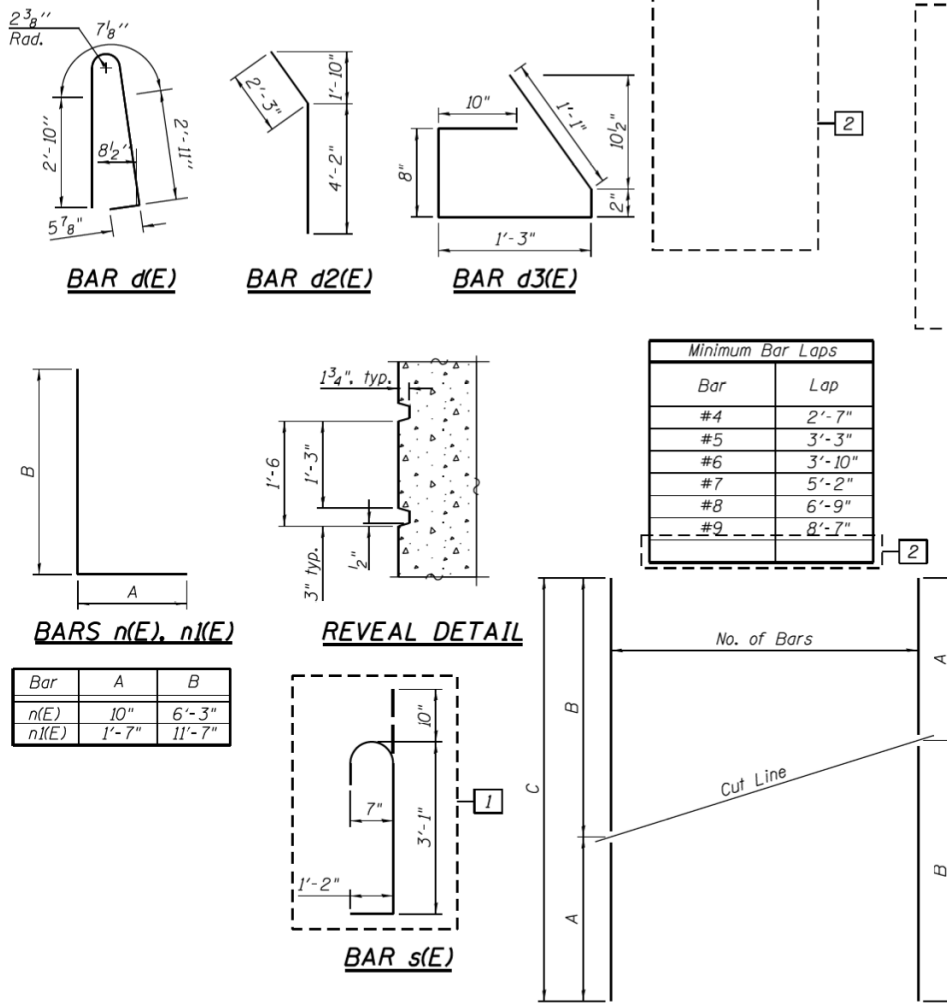
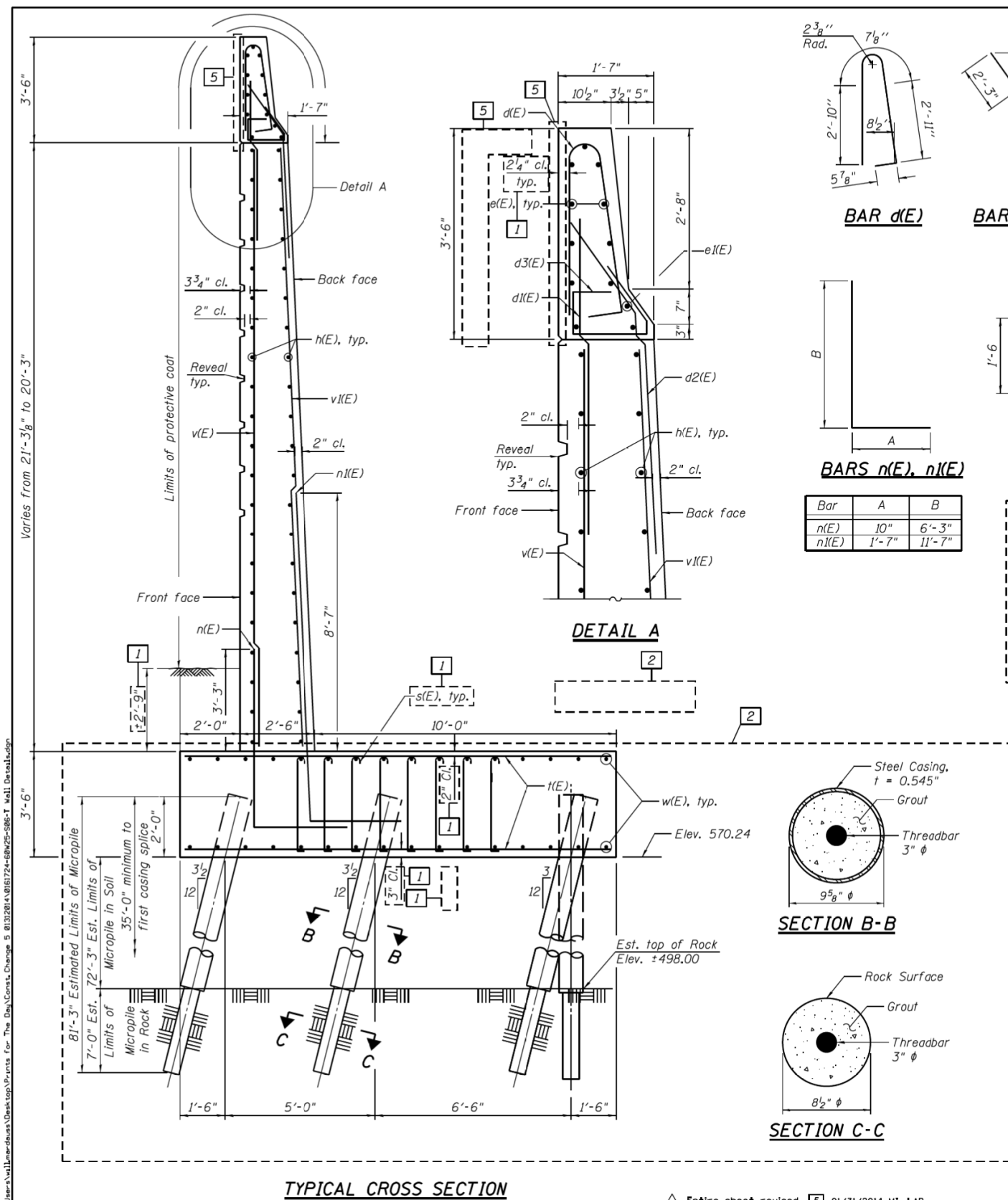
DESIGNED - OPS	REVISOR -
DRAWN - OPS	REVISOR -
CHECKED - DBM	REVISOR -
DATE - 12/05/14	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING RETAINING WALL 5 PLANS SN 016-1724
STA 5233+58.14 TO STA 5233+84.58 (FOR INFORMATION ONLY)**

F.A.I. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 268C
CONTRACT NO. 60X61				ILLINOIS FED. AID PROJECT

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Bar	No.	Size	Length	Shape
d(E)	30	#5	6'-10"	⌒
d1(E)	27	#5	6'-6"	—
d2(E)	53	#7	6'-5"	⌒
d3(E)	30	#5	4'-0"	⌒
e(E)	11	#5	25'-11"	—
e1(E)	1	#8	25'-11"	—
h(E)	44	#5	25'-11"	—
n(E)	27	#5	7'-1"	⌒
n1(E)	53	#9	13'-2"	⌒
s(E)	216	#7	5'-1"	⌒
t(E)	80	#9	14'-2"	—
v(E)	14	#5	40'-8"	—
v1(E)	27	#9	40'-8"	—
w(E)	32	#7	25'-11"	—
Concrete Structures			CU YD	93.9
Protective Coat			SQ YD	83
Micropiles, Special			EACH	14
Reinforcement Bars, Epoxy Coated			POUND	17,470

Bar	No. of Sets Req'd	No. of Bars Per Set	A	B	C
v(E)	1	14	19'-9"	20'-11"	40'-8"
v1(E)	1	27	19'-9"	20'-11"	40'-8"

Notes:

HBM HILLTOP GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HELLSBRO, IL 60152 PHONE: (708) 238-0900 FAX: (708) 238-0901	@161724-60W25-506-T Wall Details.dgn USER NAME = wallmaradauss PLOT SCALE = 4.000' / in. PLOT DATE = 1/30/2014	DESIGNED - MI, MAF, JJS DRAWN - JJS, MAF CHECKED - MAI, MI, LAB DATE - 6/17/2013	REVISED - 07/19/2013 MI, WM REVISED - 07/30/2013 MI, LAB REVISED - 08/19/2013 MI, JJS REVISED - 12/16/2013 SF	Entire sheet revised 5 01/31/2014 MI, LAB
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
	SECTIONS, DETAILS AND BILL OF MATERIAL RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT			
	SCALE: SHEET S2-06 OF 12 SHEETS STA. TO STA.			

D160X61-sht-AsBuilt-06.dgn USER NAME = pimsarno PLOT SCALE = 2.0000' / in. PLOT DATE = 12/4/2014	DESIGNED - OPS DRAWN - OPS CHECKED - DBM DATE - 12/05/14	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING RETAINING WALL 5 PLANS SN 016-1724
 STA 5233 + 58.14 TO STA 5233 + 84.58 (FOR INFORMATION ONLY)**

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

F.A.I. RTE. 90/94/290	SECTION 2013-077R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 268D
CONTRACT NO. 60X25				ILLINOIS FED. AID PROJECT

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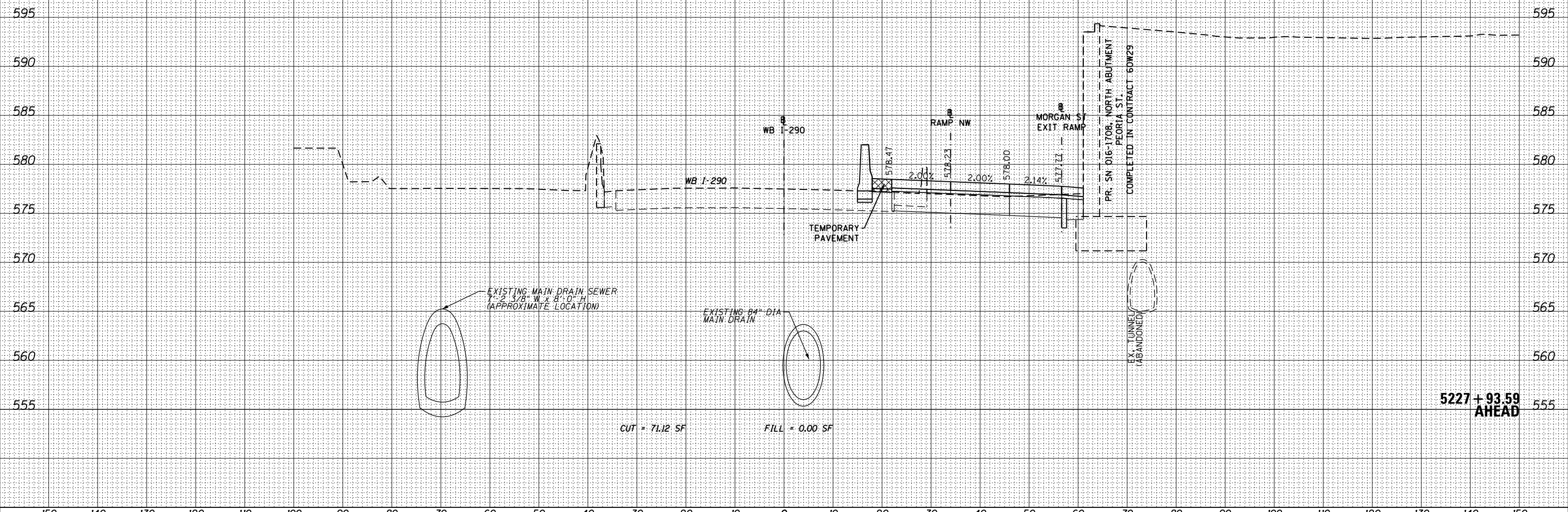
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NOTES:
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PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1:5V,1:10H		SHEET 01 OF 49 SHEETS		STA. 5227+93.59 TO STA. 5227+93.59	
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CROSS SECTIONS
 WB I-290 AUXILIARY LANE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	269
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

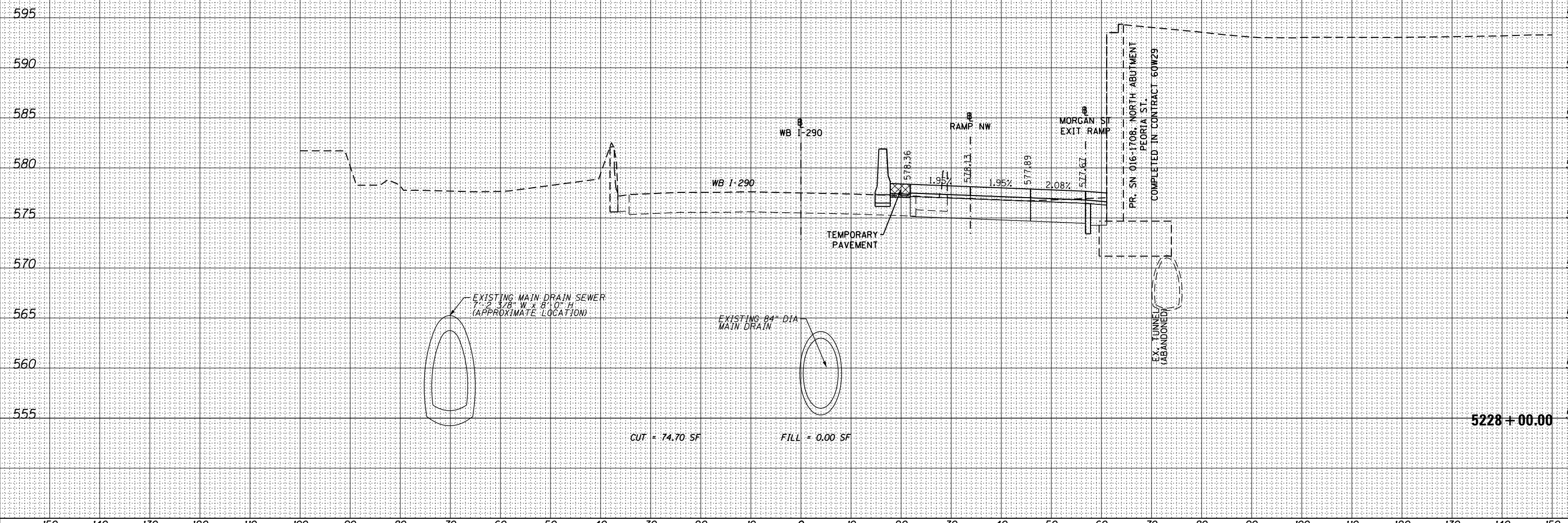
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V,1:10H SHEET 02 OF 49 SHEETS STA. 5228+00.00 TO STA. 5228+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	270
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

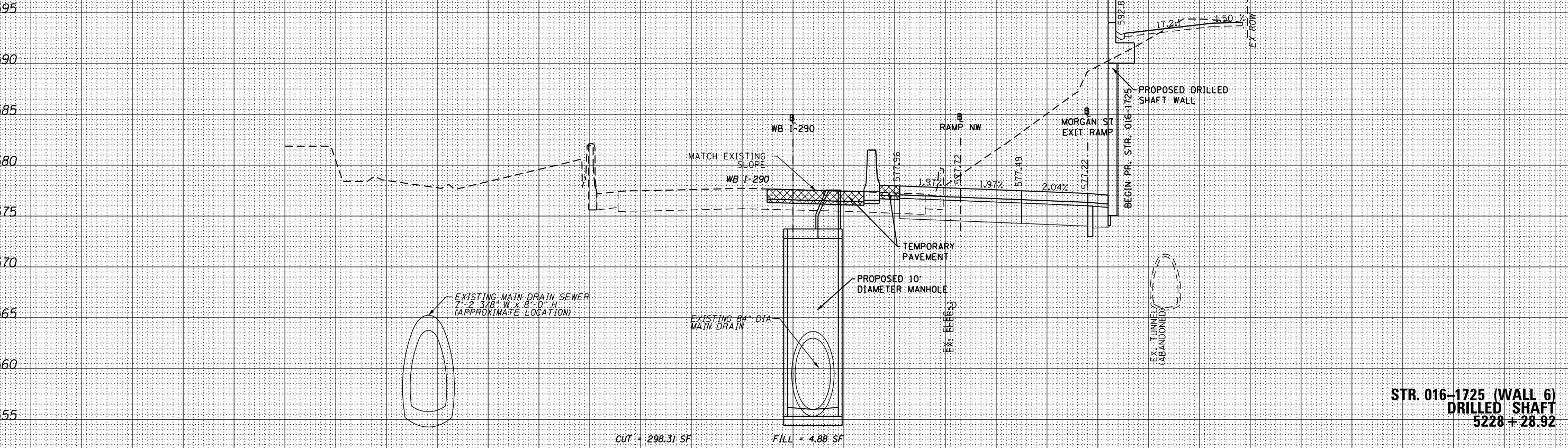
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**STR. 016-1725 (WALL 6)
 DRILLED SHAFT
 5228 + 28.92**



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 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 WB I-290 AUXILIARY LANE**
 SCALE: 1:5V, 1:10H SHEET 03 OF 49 SHEETS STA. 5228+28.94 TO STA. 5228+28.94

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	271
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

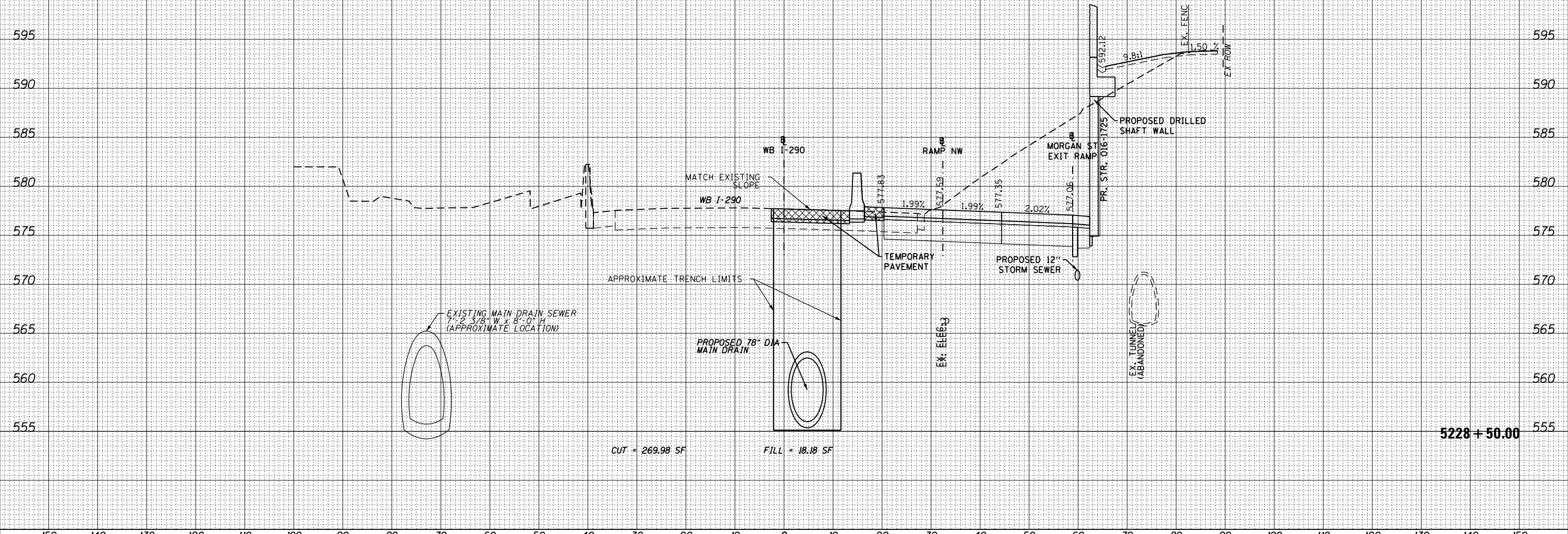
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5228 + 50.00



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 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE

SCALE: 1:5V, 1:10H SHEET 04 OF 49 SHEETS STA. 5228+50.00 TO STA. 5228+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	272
CONTRACT NO. 60X61				

ILLINOIS FED. AID PROJECT

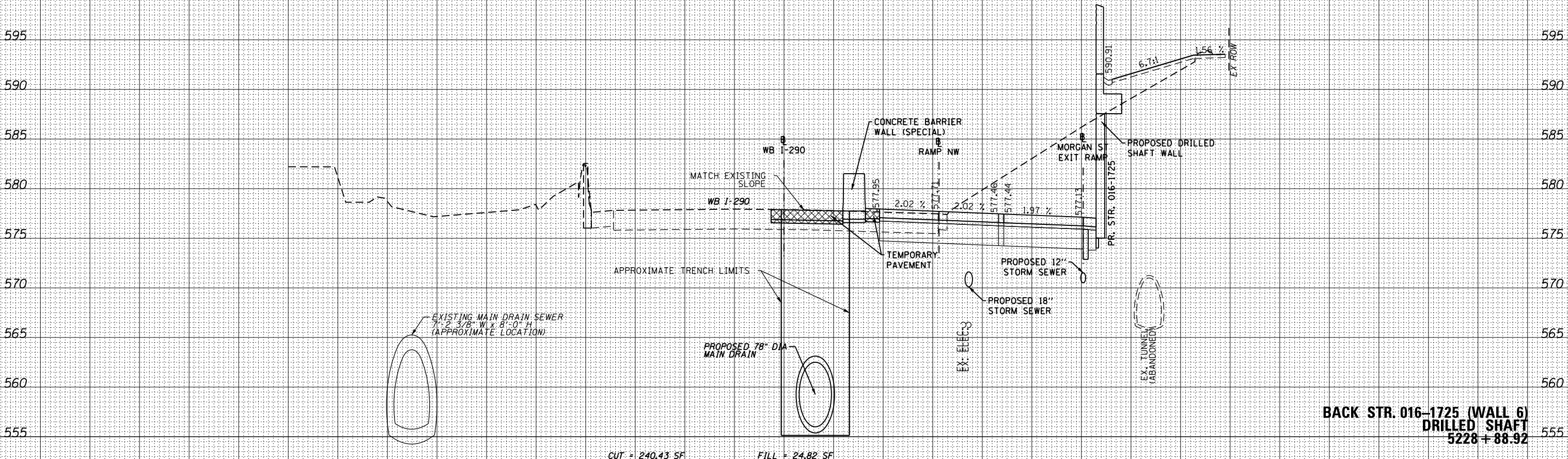
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NOTES:
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**BACK STR. 016-1725 (WALL 6)
 DRILLED SHAFT
 5228 + 88.92**



D160X61-SHT-XS-Aux-Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 WB I-290 AUXILIARY LANE**
 SCALE: 1:5V, 1:10H SHEET 05 OF 49 SHEETS STA. 5228+88.80 TO STA. 5228+88.80

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	273
CONTRACT NO. 60X61				ILLINOIS FED. AID PROJECT

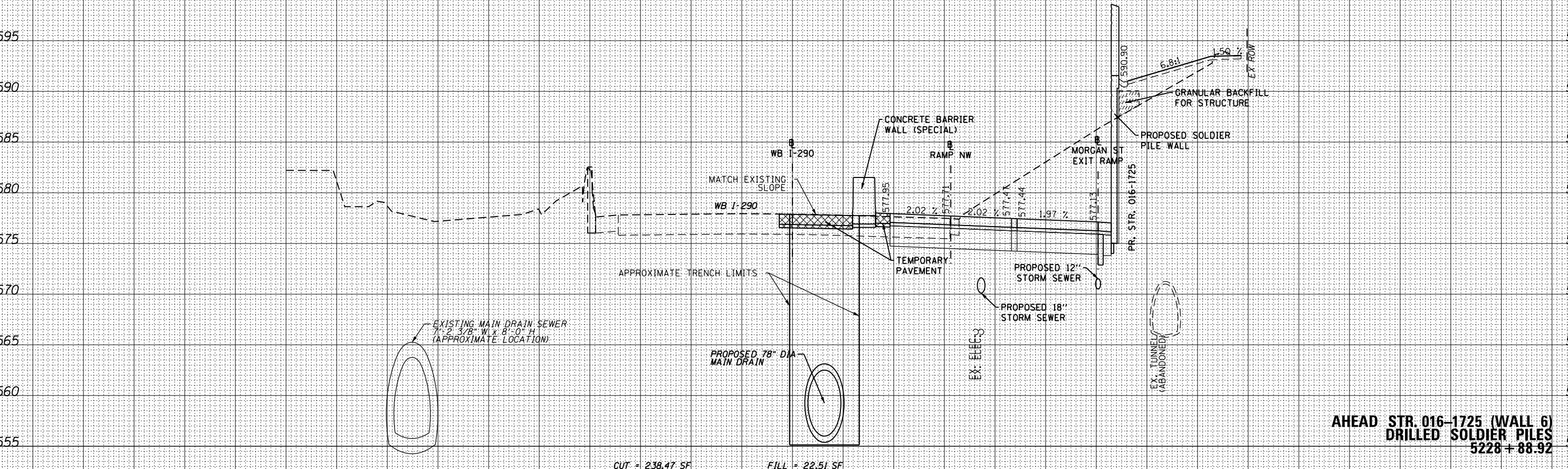
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NOTES:
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**AHEAD STR. 016-1725 (WALL 6)
DRILLED SOLDIER PILES
5228 + 88.92**



D160X61-SHT-XS-Aux-Lane.dgn
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PLOT SCALE = 10.0000' / in.
PLOT DATE = 10/17/2014

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DRAWN - SDH
CHECKED - DBM
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
WB I-290 AUXILIARY LANE**

SCALE: 1:5V,1:10H SHEET 06 OF 49 SHEETS STA. 5228+88.90 TO STA. 5228+88.90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	274
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

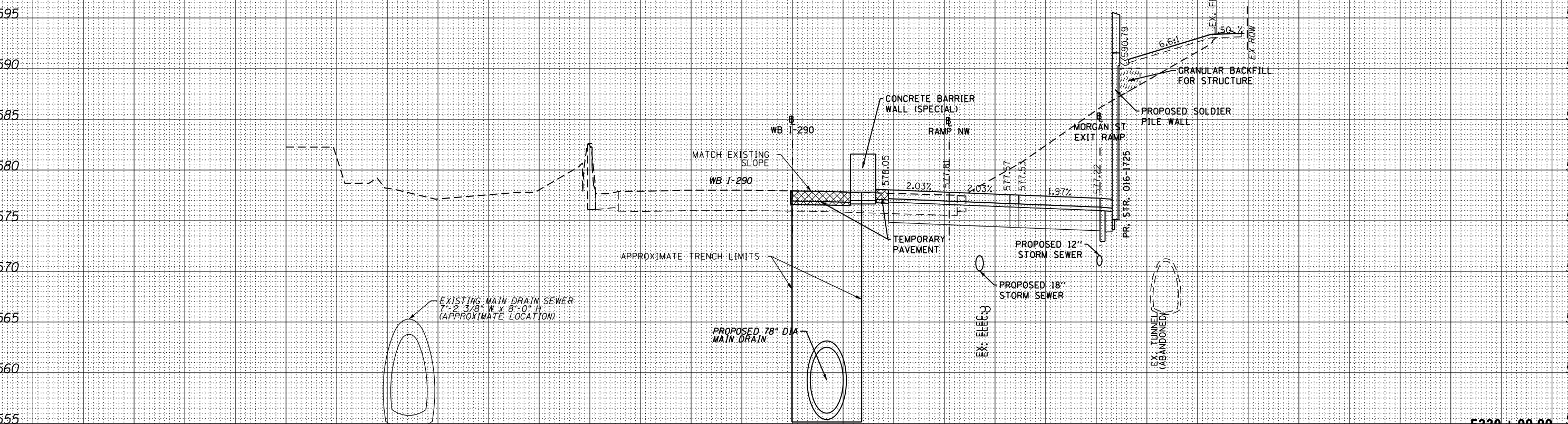
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NOTES:
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D160X61-SHT-XS-Aux.Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V,1:10H
 SHEET 07 OF 49 SHEETS
 STA. 5229+00.00 TO STA. 5229+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	275
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

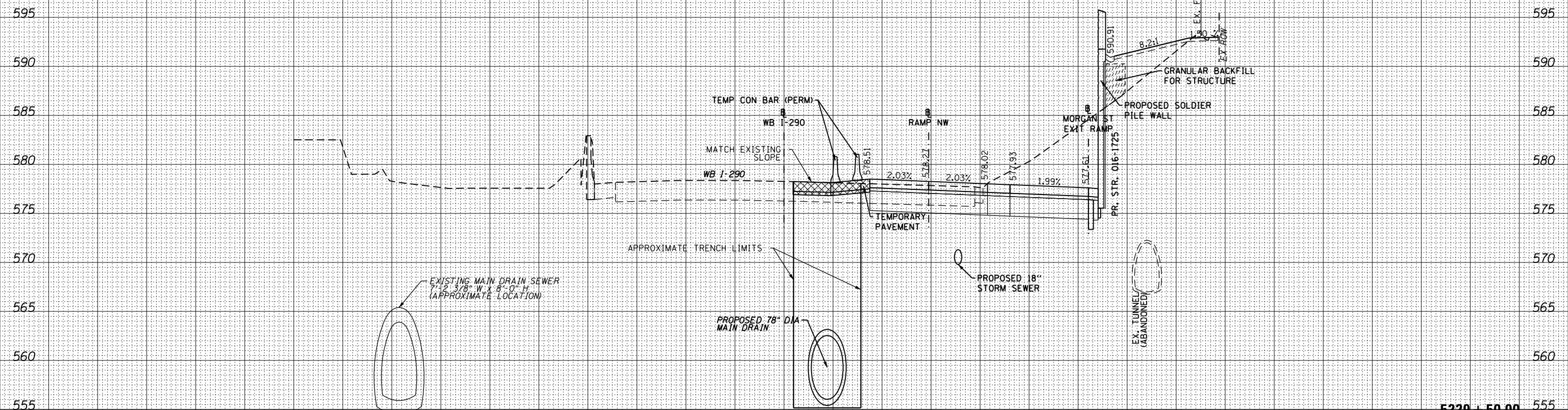
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	BY	SURVEYED
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		TEMPLATE
		AREAS CHECKED
		NO.

DATE	BY	SURVEYED
		PLOTTED
		TEMPLATE
		AREAS CHECKED
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CUT = 159.04 SF FILL = 25.30 SF

5229 + 50.00



D160X61-SHT-XS-Aux-Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V, 1:10H SHEET 08 OF 49 SHEETS STA. 5229+50.00 TO STA. 5229+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	276
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

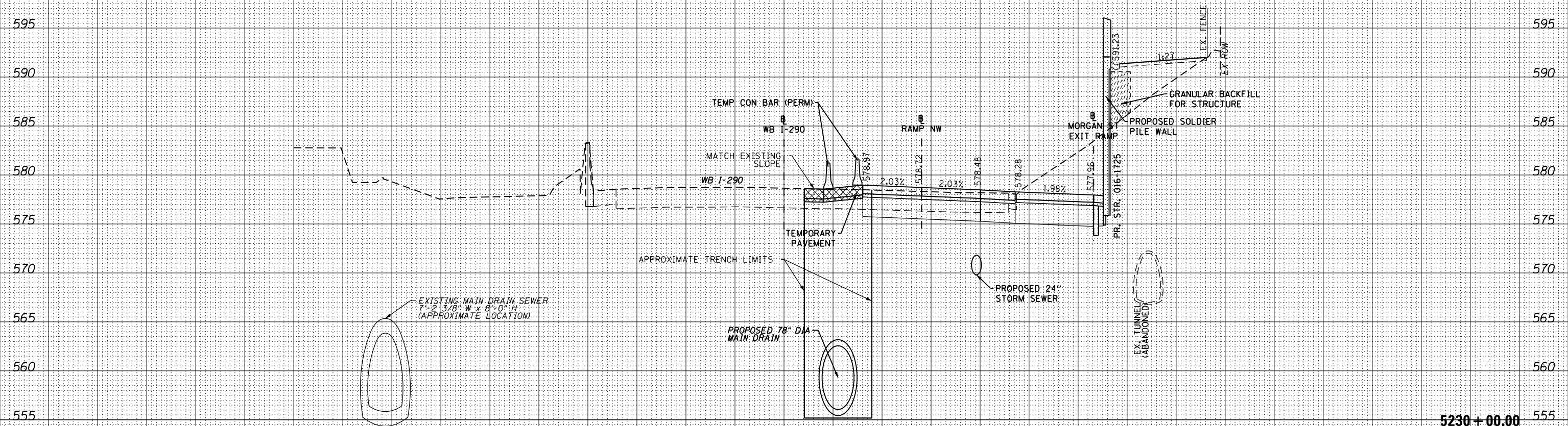
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

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CUT = 120.90 SF FILL = 34.43 SF

5230 + 00.00



D160X61-SHT-XS-Aux.Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1:5V, 1:10H		SHEET 09 OF 49 SHEETS		STA. 5230+00.00 TO STA. 5230+00.00	
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CROSS SECTIONS
 WB I-290 AUXILIARY LANE

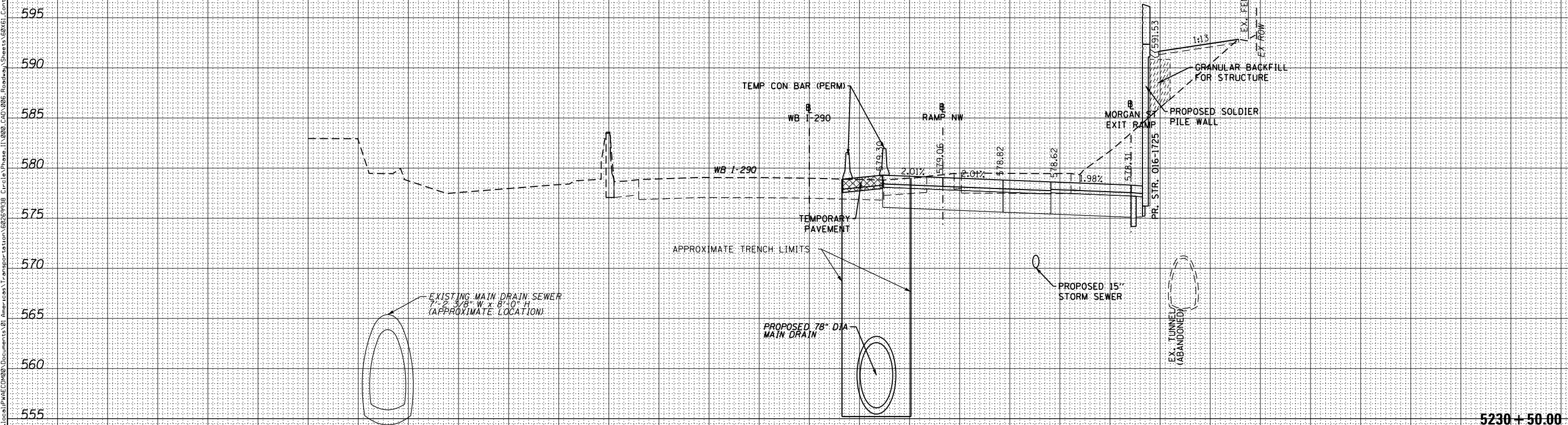
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	277
CONTRACT NO. 60X61				ILLINOIS FED. AID PROJECT

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

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



D160X61-SHT-XS-Aux.Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	278
CONTRACT NO. 60X61				

SCALE: 1:5V, 1:10H SHEET 10 OF 49 SHEETS STA. 5230+50.00 TO STA. 5230+50.00

ILLINOIS FED. AID PROJECT

5230 + 50.00

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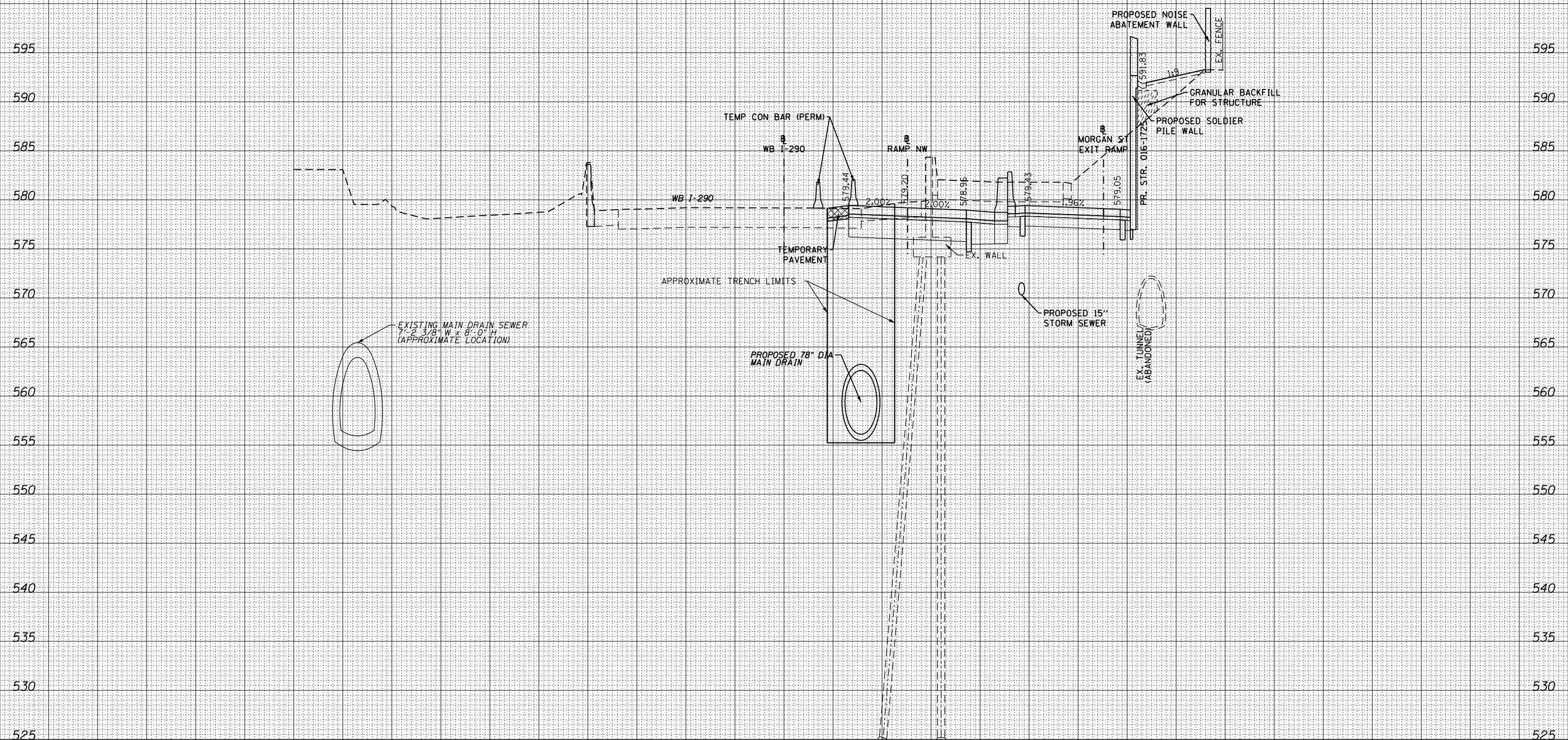
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
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CUT = 260.63 SF FILL = 14.22 SF

5231 + 00.00



D160X61-SHT-XS-Aux-Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000 / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE

SCALE: 1:5V,1:10H SHEET 11 OF 49 SHEETS STA. 5231+00.00 TO STA. 5231+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	279
				CONTRACT NO. 60X61
ILLINOIS FED. AID PROJECT				

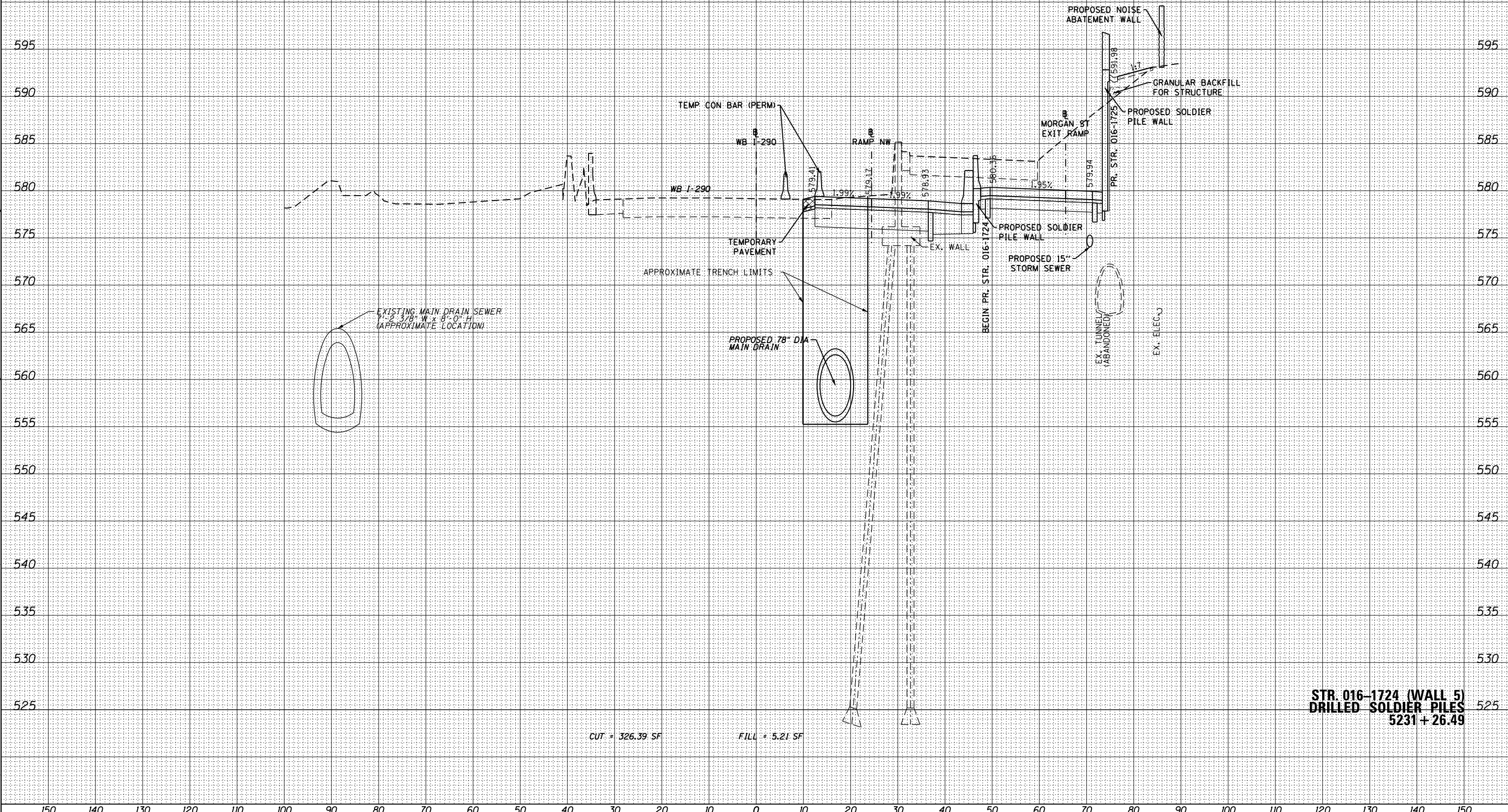
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NOTES:
EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

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CUT = 326.39 SF FILL = 5.21 SF

**STR. 016-1724 (WALL 5)
DRILLED SOLDIER PILES
5231 + 26.49**



D160X61-SHT-XS-Aux-Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
WB I-290 AUXILIARY LANE	
SCALE: 1:5V,1:10H	SHEET 12 OF 49 SHEETS
STA. 5231+26.49 TO STA. 5231+26.49	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	280
				CONTRACT NO. 60X61
ILLINOIS FED. AID PROJECT				

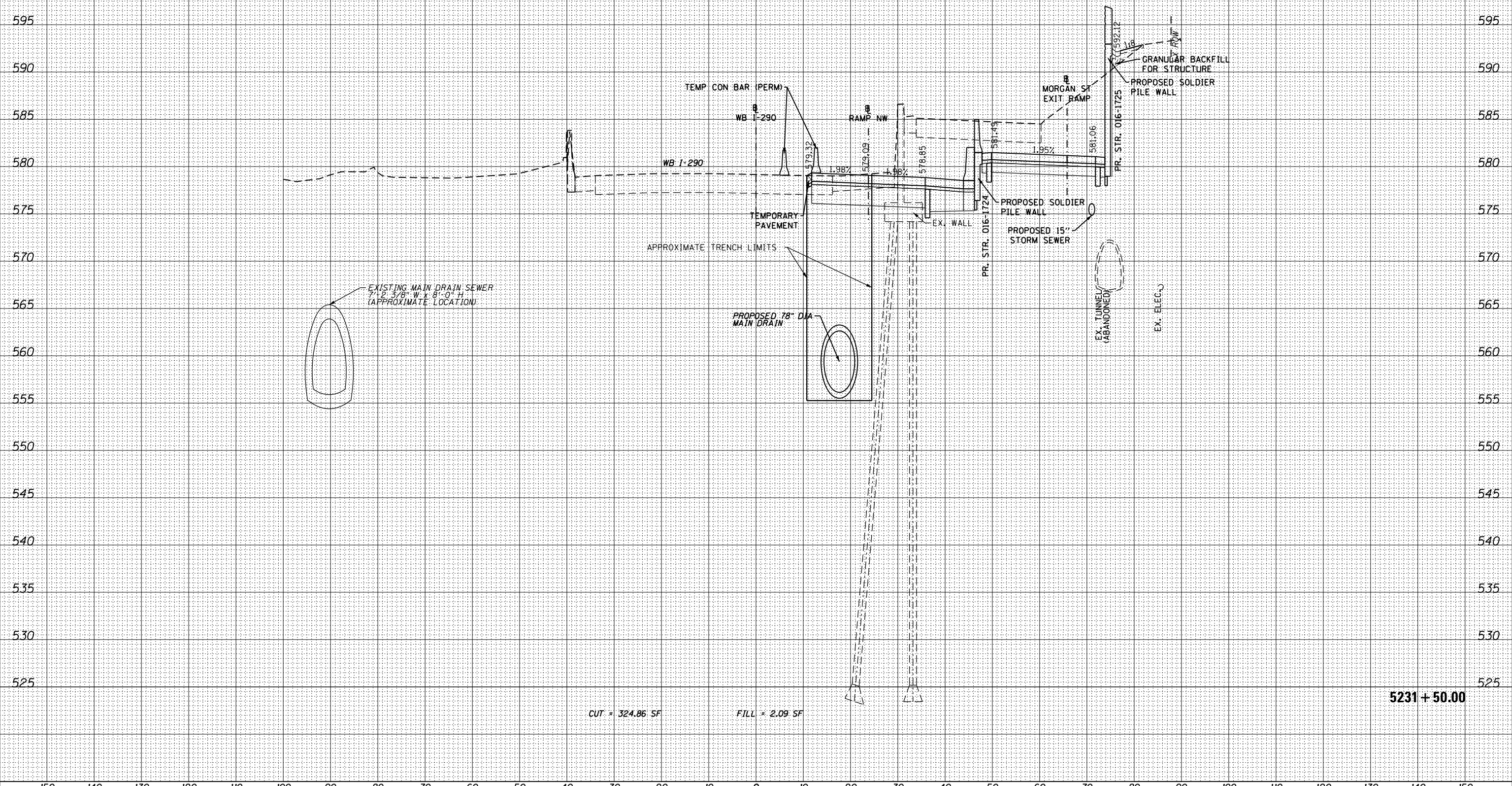
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

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CUT = 324.86 SF FILL = 2.09 SF

5231 + 50.00



D160X61-SHT-XS-Aux-Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000 / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE

SCALE: 1:5V, 1:10H SHEET 13 OF 49 SHEETS STA. 5231+50.00 TO STA. 5231+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	281
CONTRACT NO. 60X61				

ILLINOIS FED. AID PROJECT

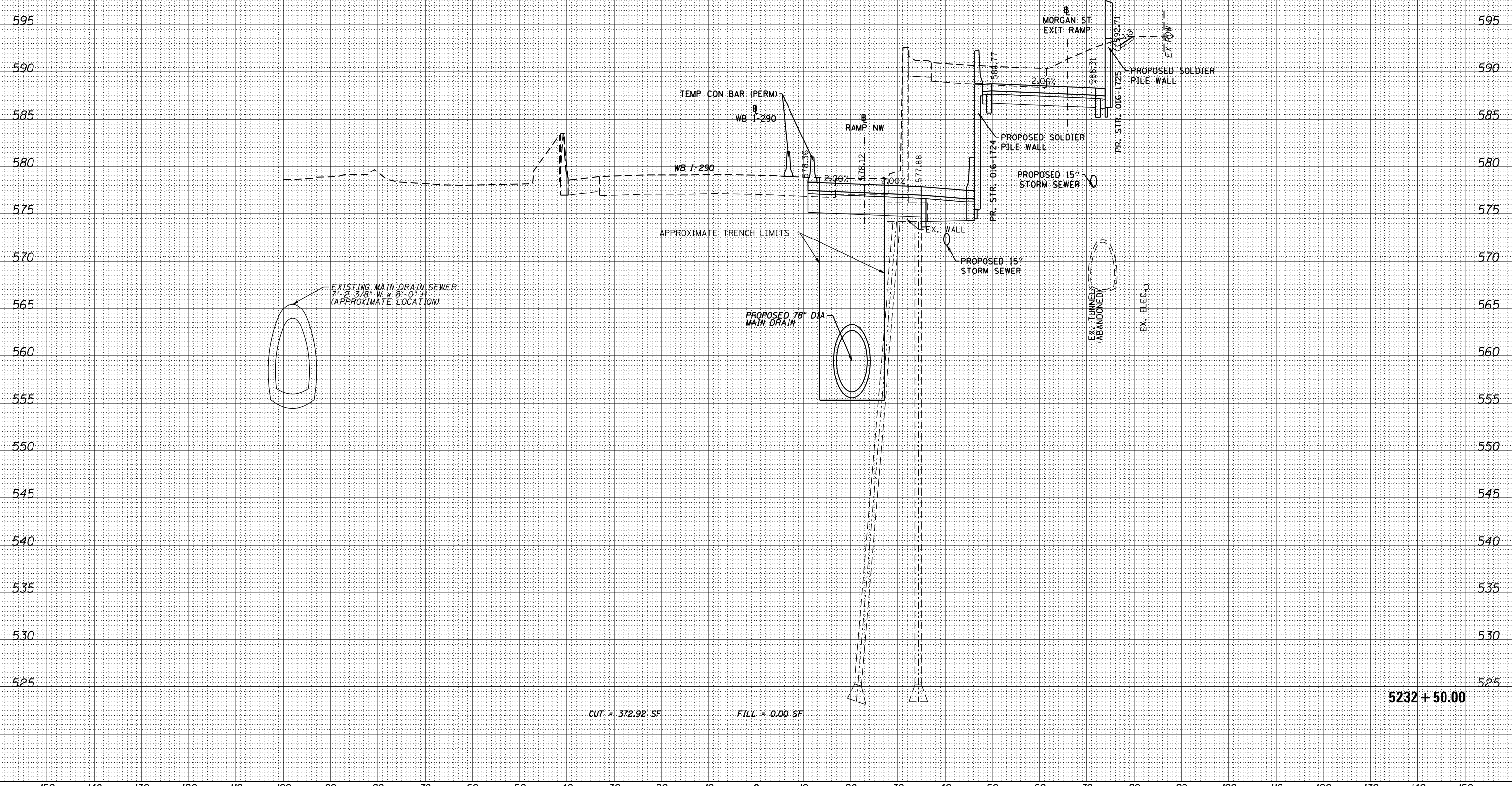
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
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DATE	
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ORIGINAL SURVEY	
NOTED SURVEY	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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NOTE BOOK	
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USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V,1:10H SHEET 15 OF 49 SHEETS STA. 5232+50.00 TO STA. 5232+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	283
				CONTRACT NO. 60X61
ILLINOIS FED. AID PROJECT				

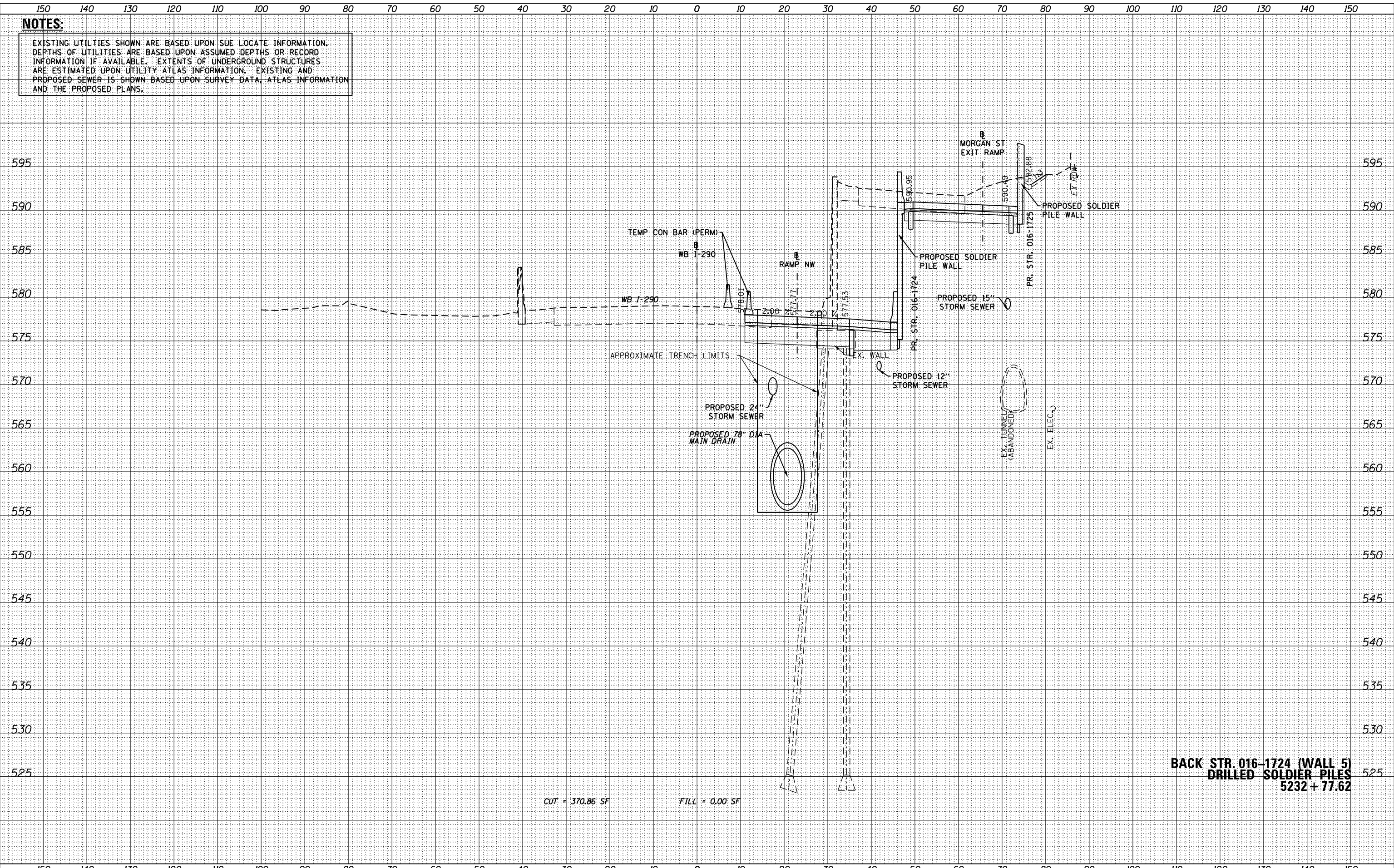
5232 + 50.00

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
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FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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CUT = 370.86 SF FILL = 0.00 SF

**BACK STR. 016-1724 (WALL 5)
 DRILLED SOLDIER PILES
 5232 + 77.62**



D160X61-SHT-XS-Aux.Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
WB I-290 AUXILIARY LANE	
SCALE: 1:5V,1:10H	SHEET 16 OF 49 SHEETS
STA. 5232+77.65 TO STA. 5232+77.65	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	284
				CONTRACT NO. 60X61
ILLINOIS FED. AID PROJECT				

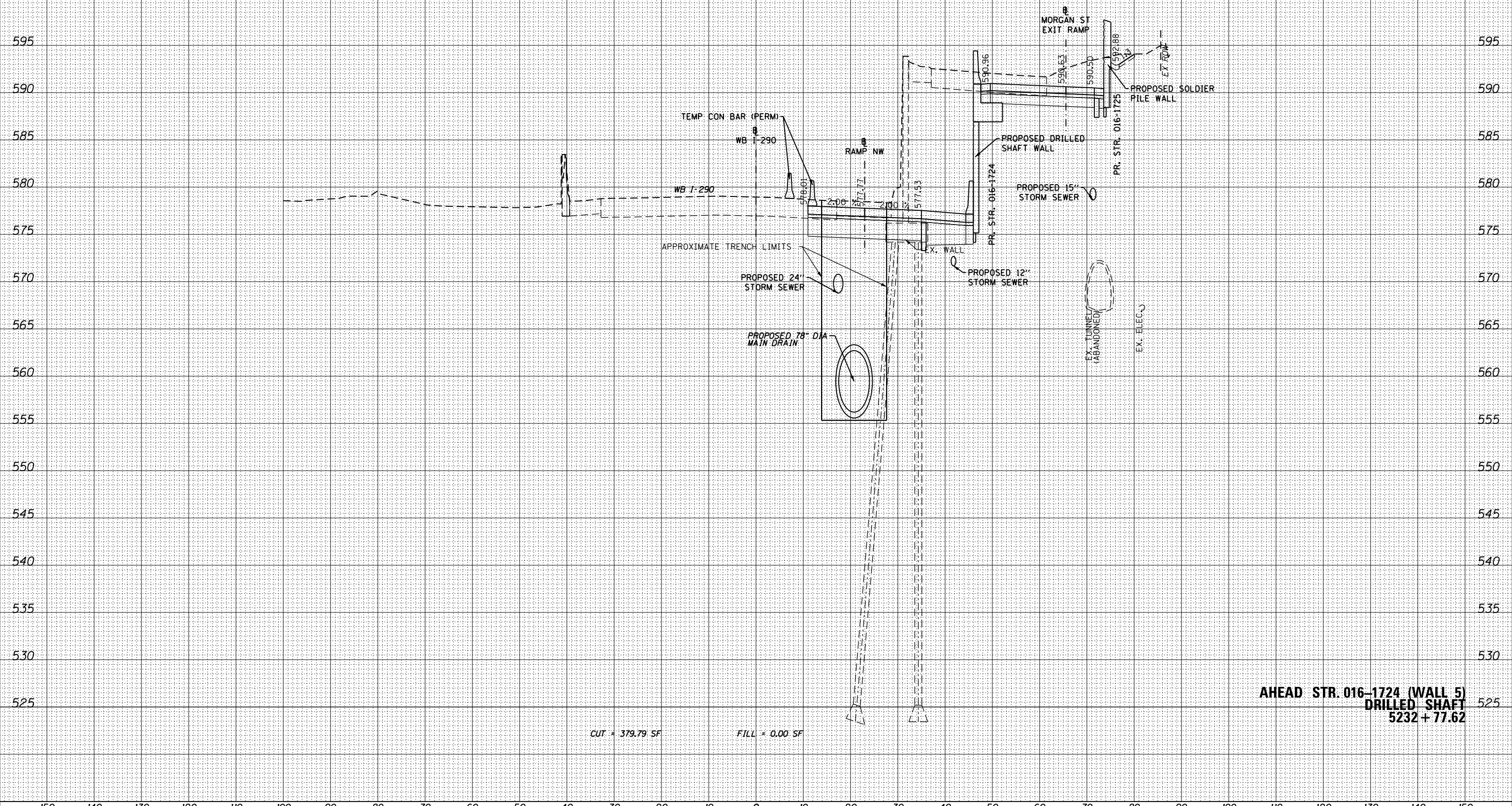
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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CUT = 379.79 SF FILL = 0.00 SF

**AHEAD STR. 016-1724 (WALL 5)
 DRILLED SHAFT
 5232 + 77.62**



D160X61-SHT-XS-Aux.Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

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

**CROSS SECTIONS
 WB I-290 AUXILIARY LANE**
 SCALE: 1:5V,1:10H SHEET 17 OF 49 SHEETS STA. 5232+77.85 TO STA. 5232+77.85

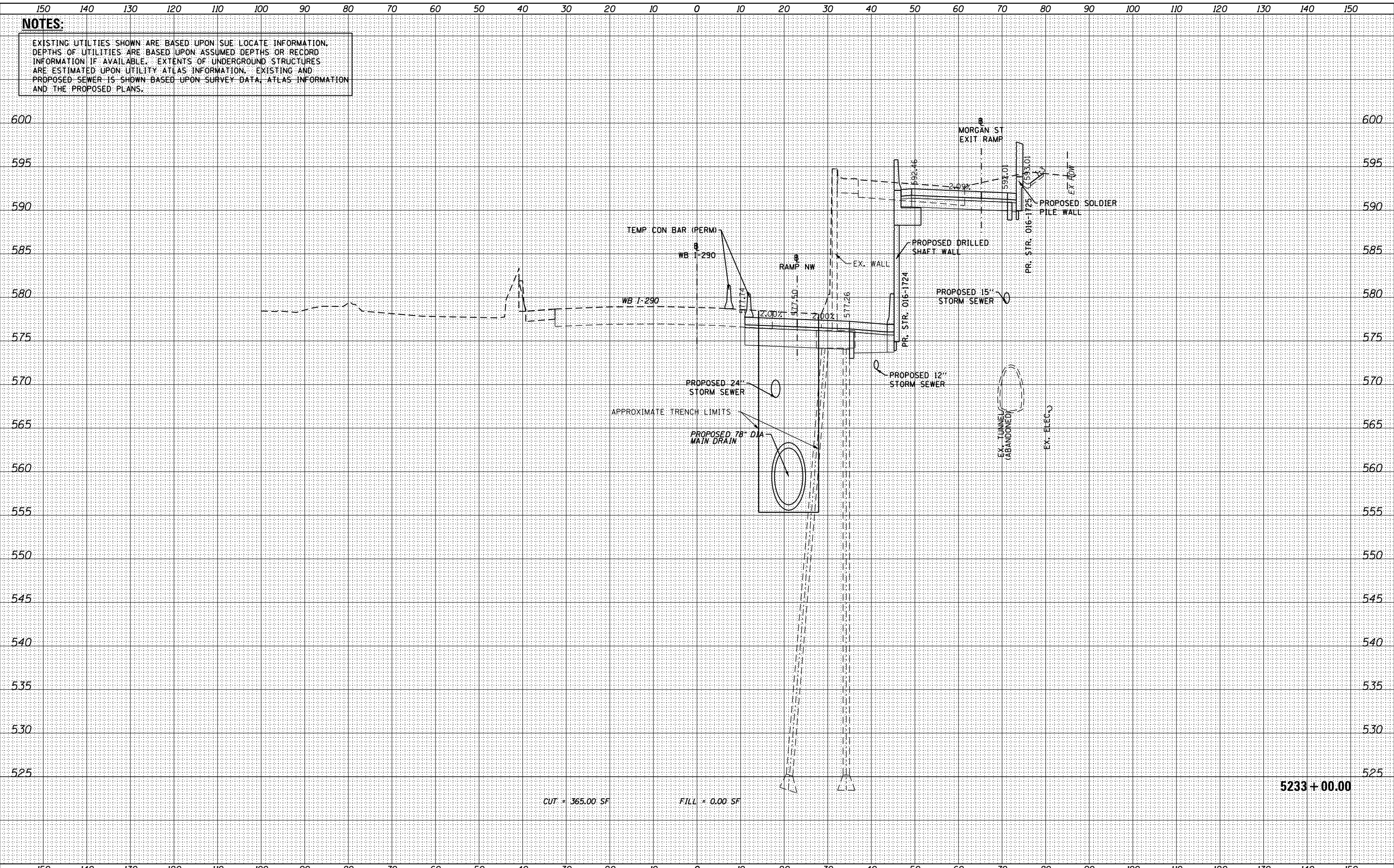
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	285
				CONTRACT NO. 60X61
ILLINOIS FED. AID PROJECT				

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

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CUT = 365.00 SF FILL = 0.00 SF

5233 + 00.00



D160X61-SHT-XS-Aux.Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
WB I-290 AUXILIARY LANE	
SCALE: 1:5V,1:10H	SHEET 18 OF 49 SHEETS
STA. 5233+00.00 TO STA. 5233+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	286
CONTRACT NO. 60X61				ILLINOIS FED. AID PROJECT

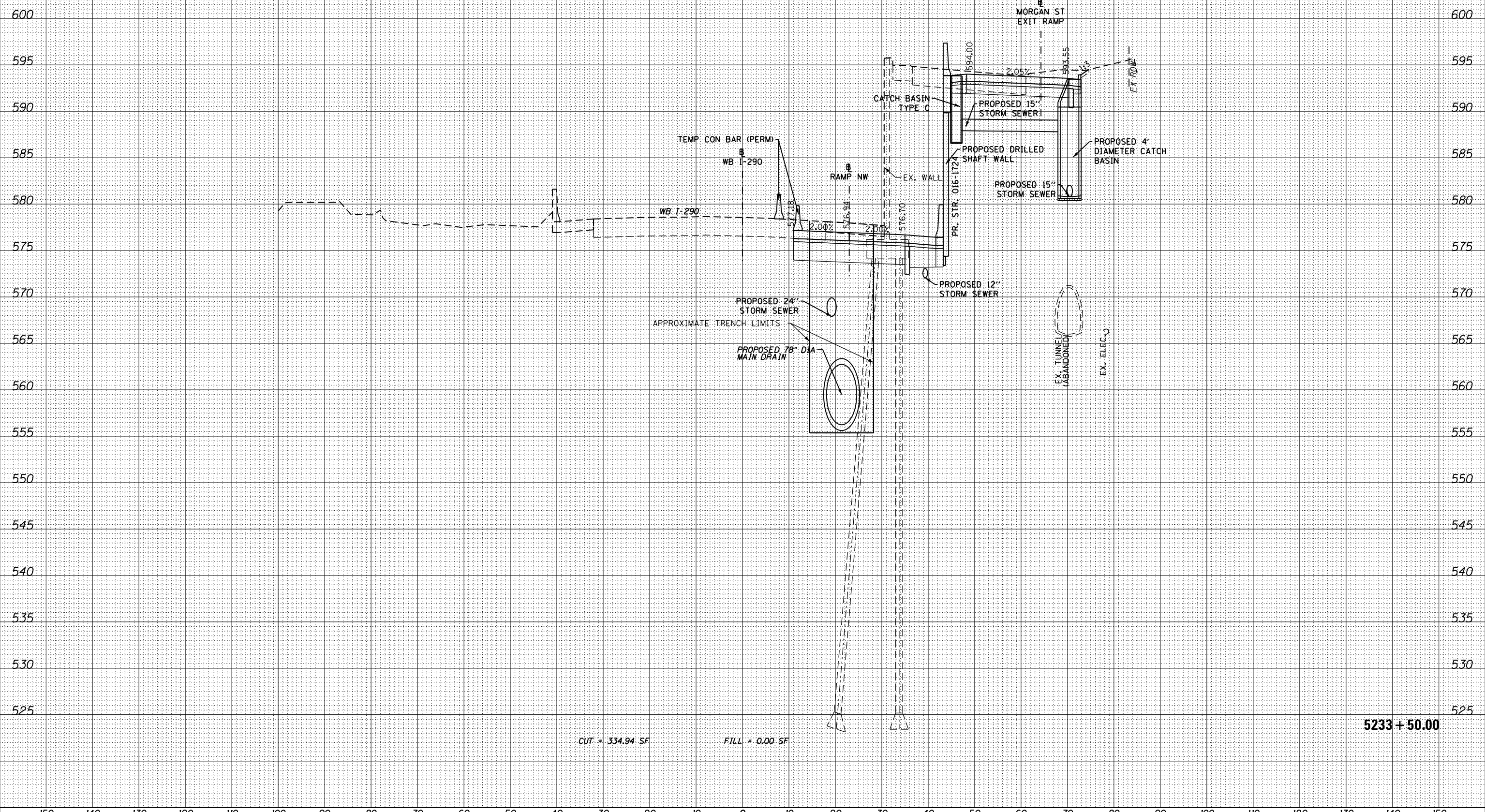
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

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CUT = 334.94 SF FILL = 0.00 SF

5233 + 50.00



D160X61-SHT-XS-Aux.Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000 / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V,1:10H SHEET 20 OF 49 SHEETS STA. 5233+50.00 TO STA. 5233+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	288
CONTRACT NO. 60X61				ILLINOIS FED. AID PROJECT

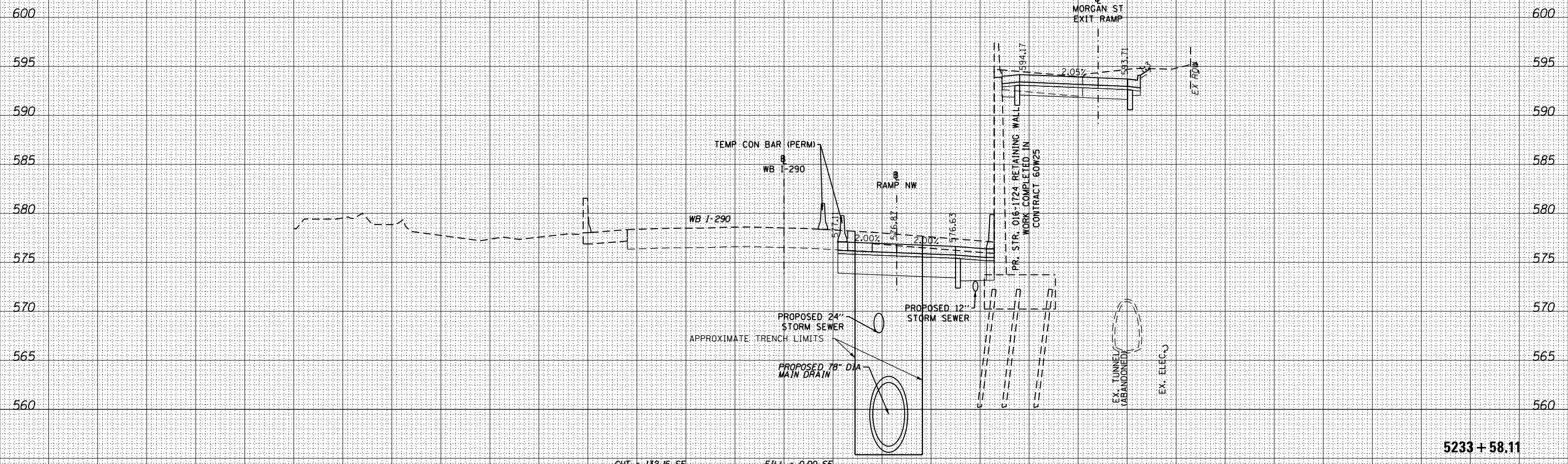
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
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DATE	BY	SURVEYED
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		TEMPLATE
		AREAS CHECKED
		NO.

DATE	BY	ORIGINAL
		SURVEY
		PLOTTED
		TEMPLATE
		AREAS CHECKED
		NO.

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CUT = 132.16 SF FILL = 0.00 SF

5233+58.11



D160X61-SHT-XS-Aux.Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V,1:10H SHEET 21 OF 49 SHEETS STA. 5233+58.11 TO STA. 5233+58.11

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	289
CONTRACT NO. 60X61				

ILLINOIS FED. AID PROJECT

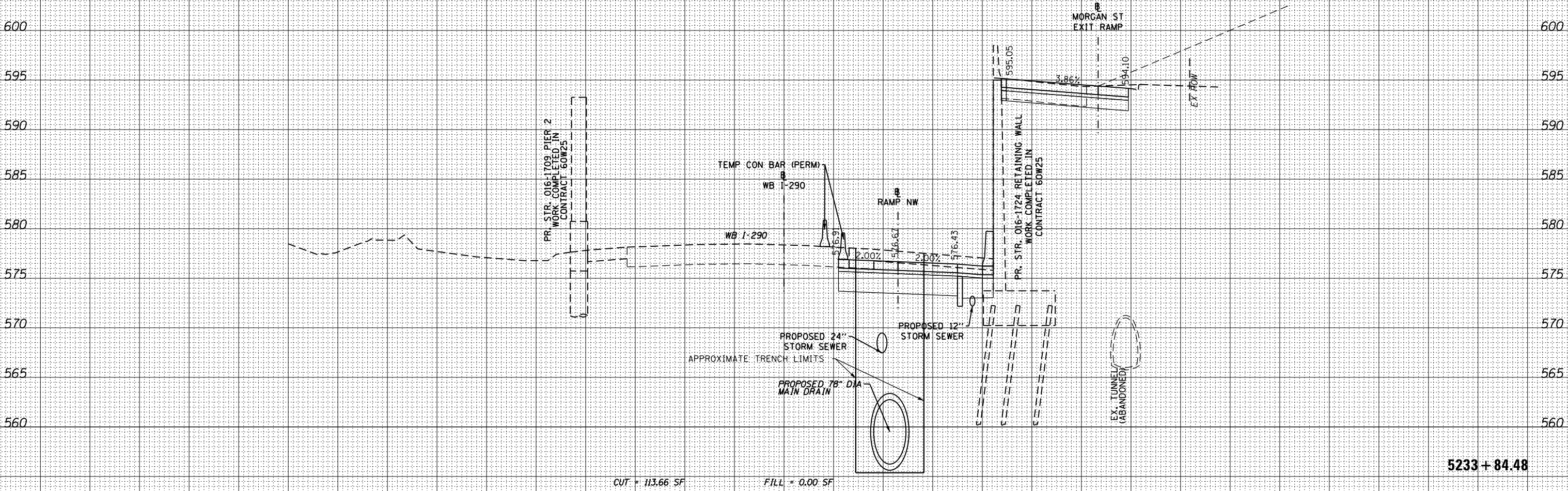
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

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

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

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D160X61-SHT-XS-Aux.Lane.dgn
 USER NAME = hollsd
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

REVISED -
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 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V,1:10H SHEET 22 OF 49 SHEETS STA. 5233+84.48 TO STA. 5233+84.48

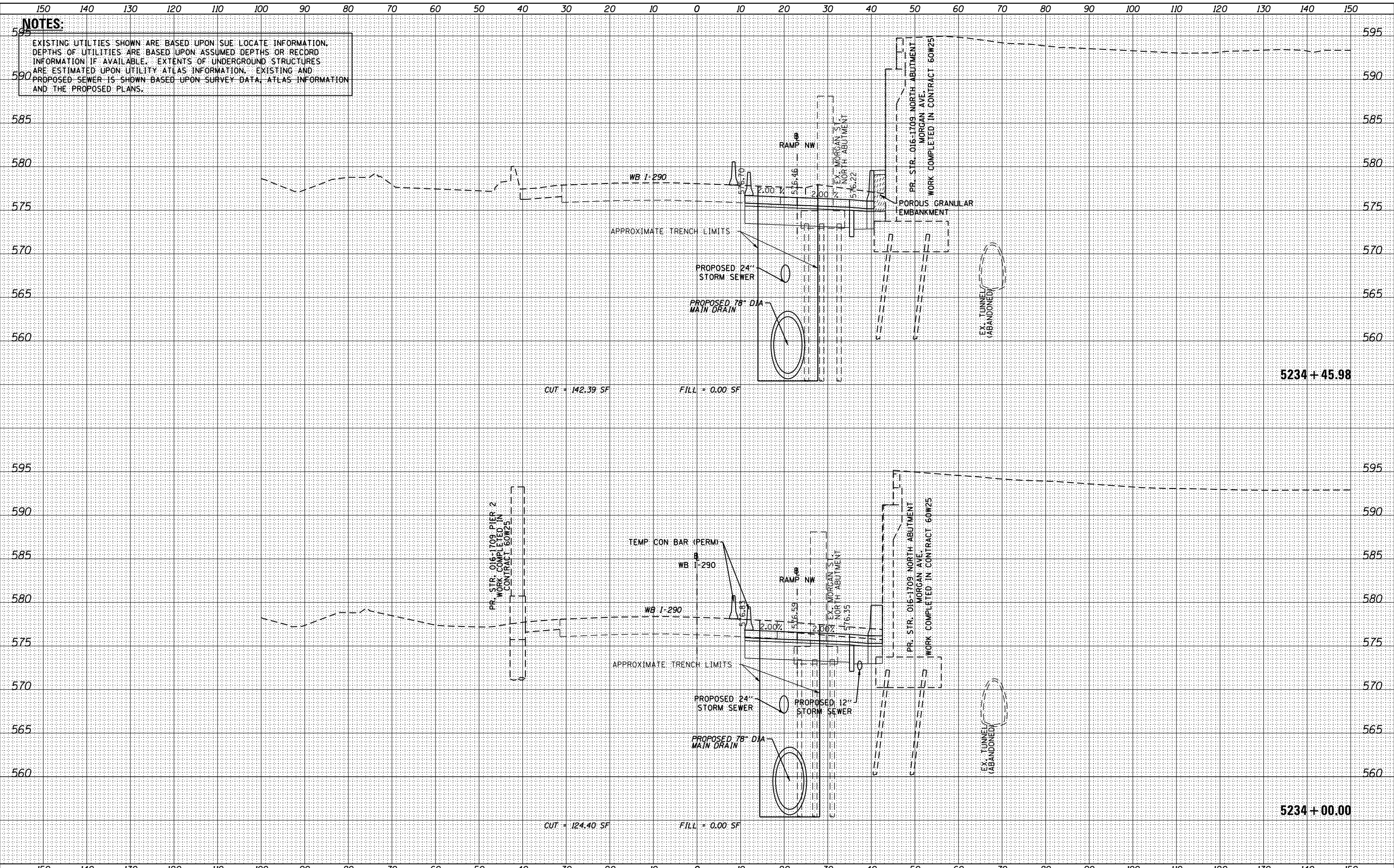
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	290
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
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FINAL SURVEY	
NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
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SURVEYED	
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D160X61-SHT-XS-Aux.Lane.dgn
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 PLOT SCALE = 10.0000 / in.
 PLOT DATE = 10/17/2014

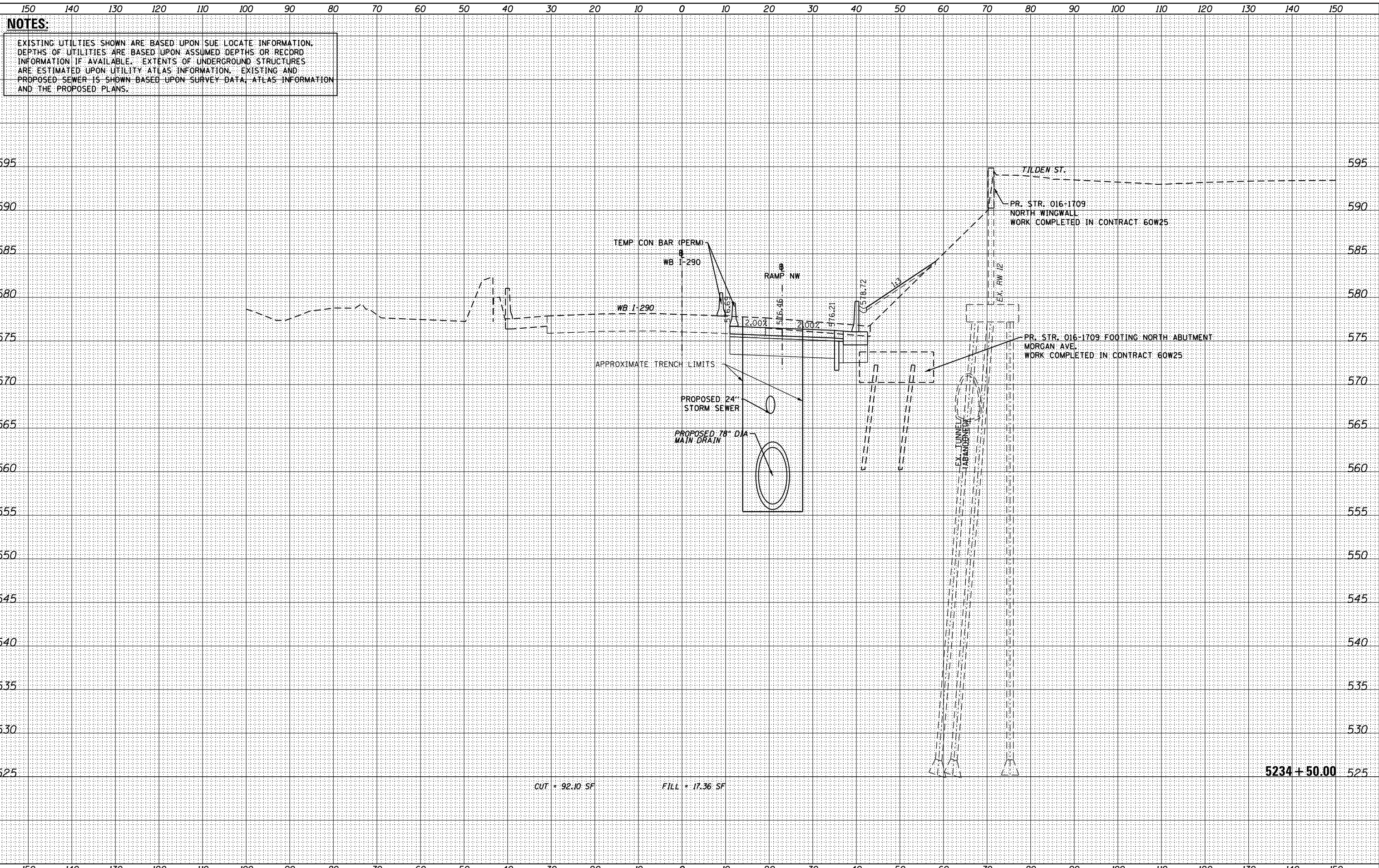
DESIGNED - SDH
 DRAWN - SDH
 CHECKED - DBM
 DATE - 10/17/14

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V,1:10H
 SHEET 23 OF 49 SHEETS
 STA. 5234+00.00 TO STA. 5234+45.98

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	291
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION.
 DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
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ORIGINAL SURVEY	
SURVEYED	
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TEMPLATE	
AREAS	
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D160X61-SHT-XS-Aux.Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
WB I-290 AUXILIARY LANE			
SCALE: 1:5V,1:10H	SHEET 24	OF 49 SHEETS	STA. 5234+50.00 TO STA. 5234+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	292
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

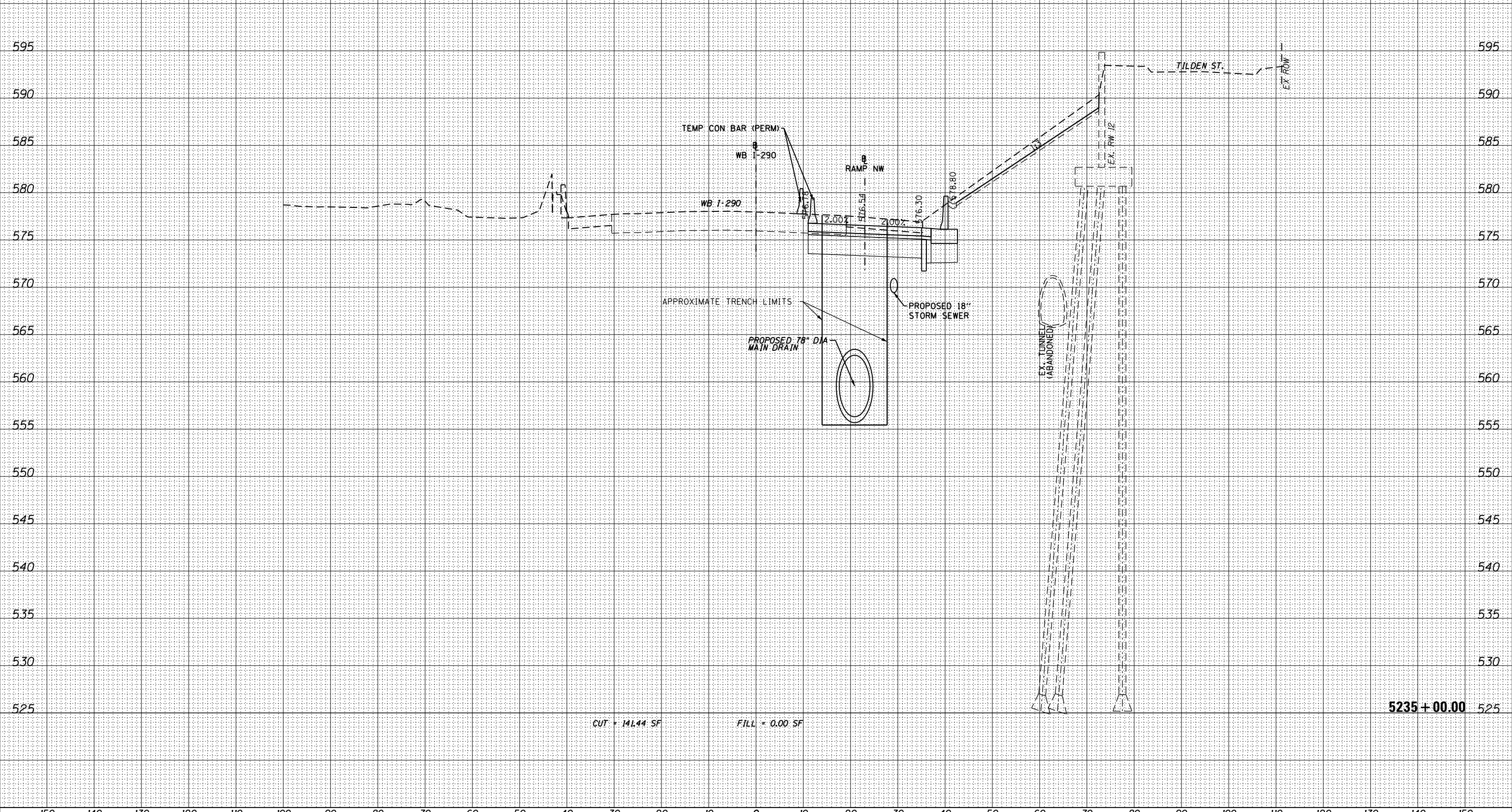
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
BY	
FINISHED SURVEY	
NOTED SURVEY	
PLOTTED SURVEY	
TEMPLATE SURVEY	
AREAS CHECKED SURVEY	
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DATE	
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ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED SURVEY	
TEMPLATE SURVEY	
AREAS CHECKED SURVEY	
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CUT = 141.44 SF FILL = 0.00 SF

5235 + 00.00



D160X61-SHT-XS-Aux.Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS WB I-290 AUXILIARY LANE	
SCALE: 1:5V, 1:10H	SHEET 25 OF 49 SHEETS
STA. 5235+00.00 TO STA. 5235+00.00	

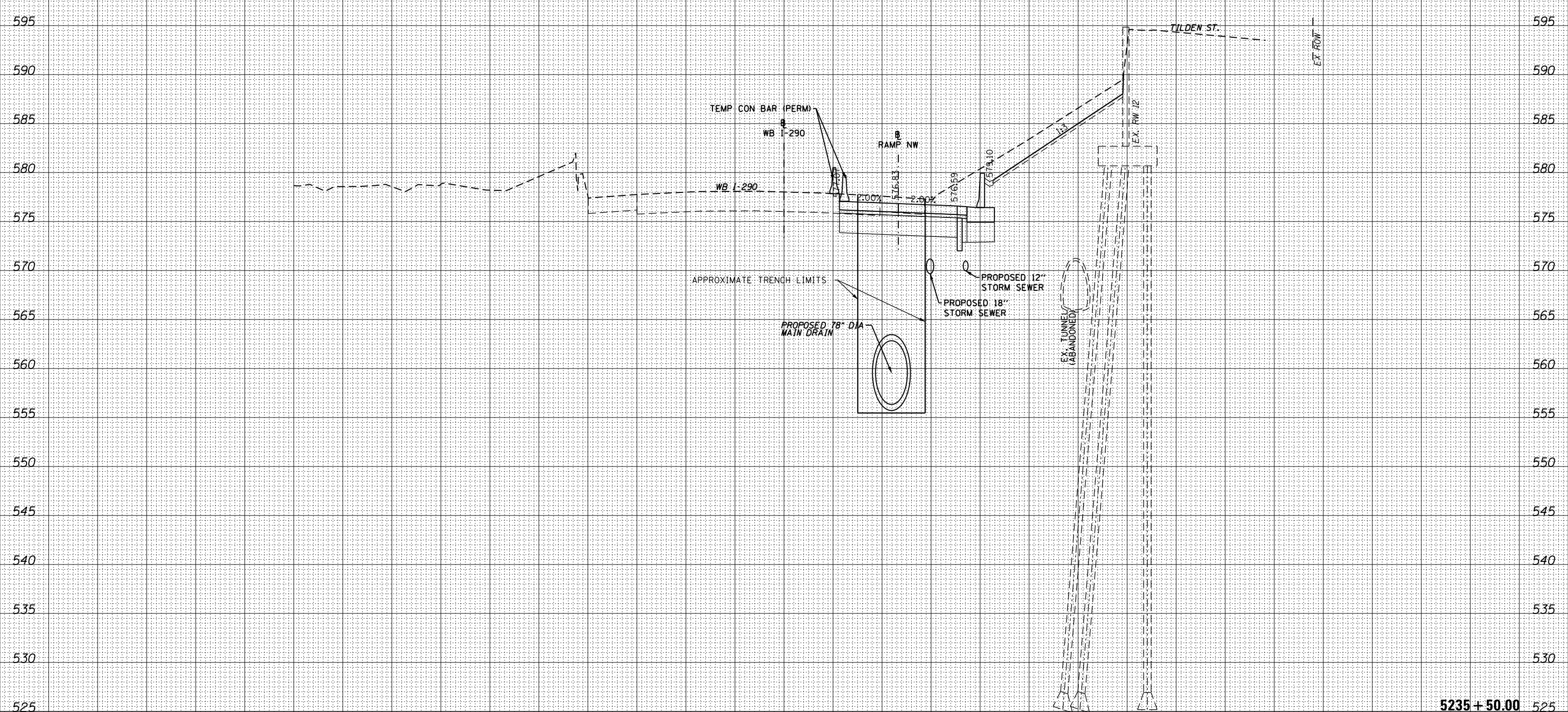
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	293
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

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

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



CUT = 169.70 SF FILL = 0.00 SF

5235 + 50.00



D160X61-SHT-XS-Aux.Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
WB I-290 AUXILIARY LANE	
SCALE: 1:5V, 1:10H	SHEET 26 OF 49 SHEETS
STA. 5235+50.00 TO STA. 5235+50.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	294
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

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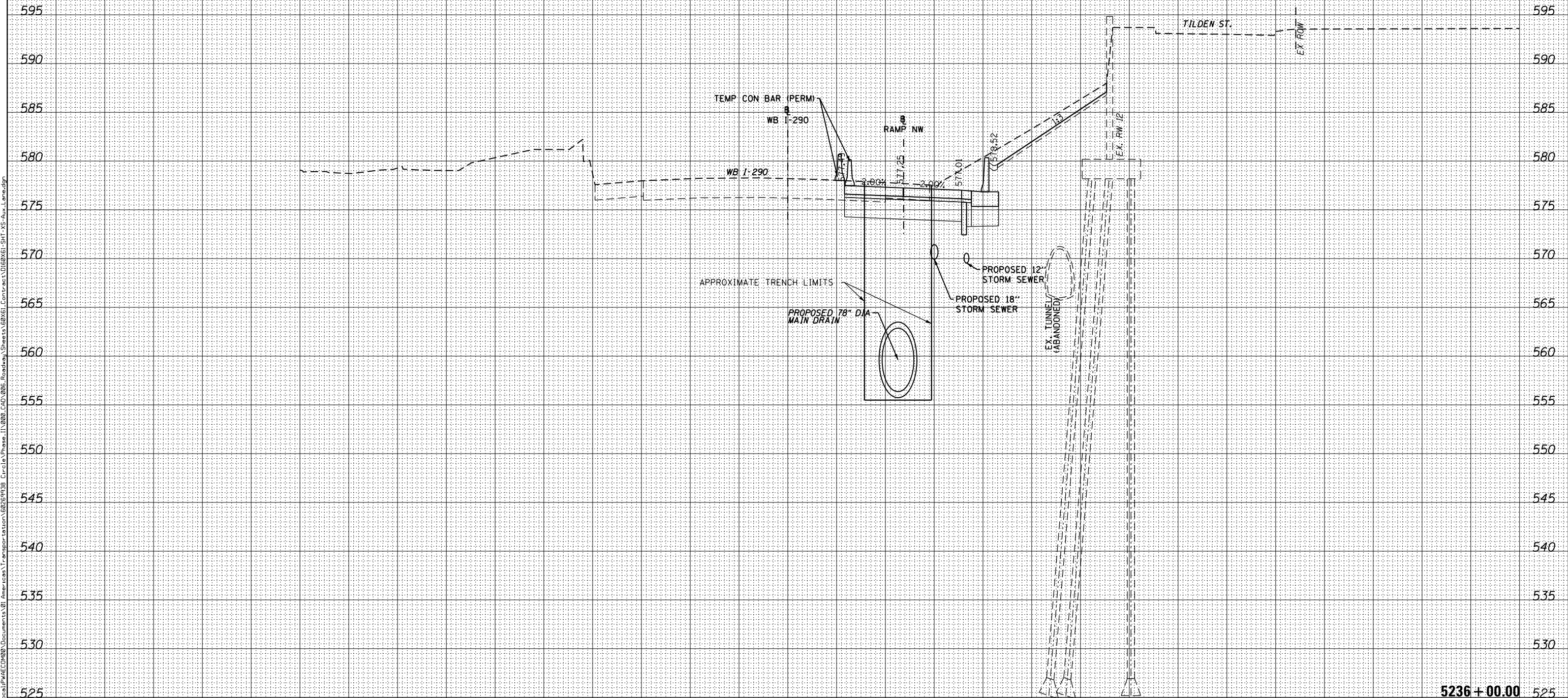
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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DATE	
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ORIGINAL SURVEY	
SURVEYED	
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CUT = 143.32 SF FILL = 0.00 SF

5236 + 00.00



D160X61-SHT-XS-Aux.Lane.dwg	DESIGNED - SDH	REVISED -
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PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
WB I-290 AUXILIARY LANE	
SCALE: 1:5V, 1:10H	SHEET 27 OF 49 SHEETS
STA. 5236+00.00 TO STA. 5236+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	295
CONTRACT NO. 60X61				
ILLINOIS FED. AID PROJECT				

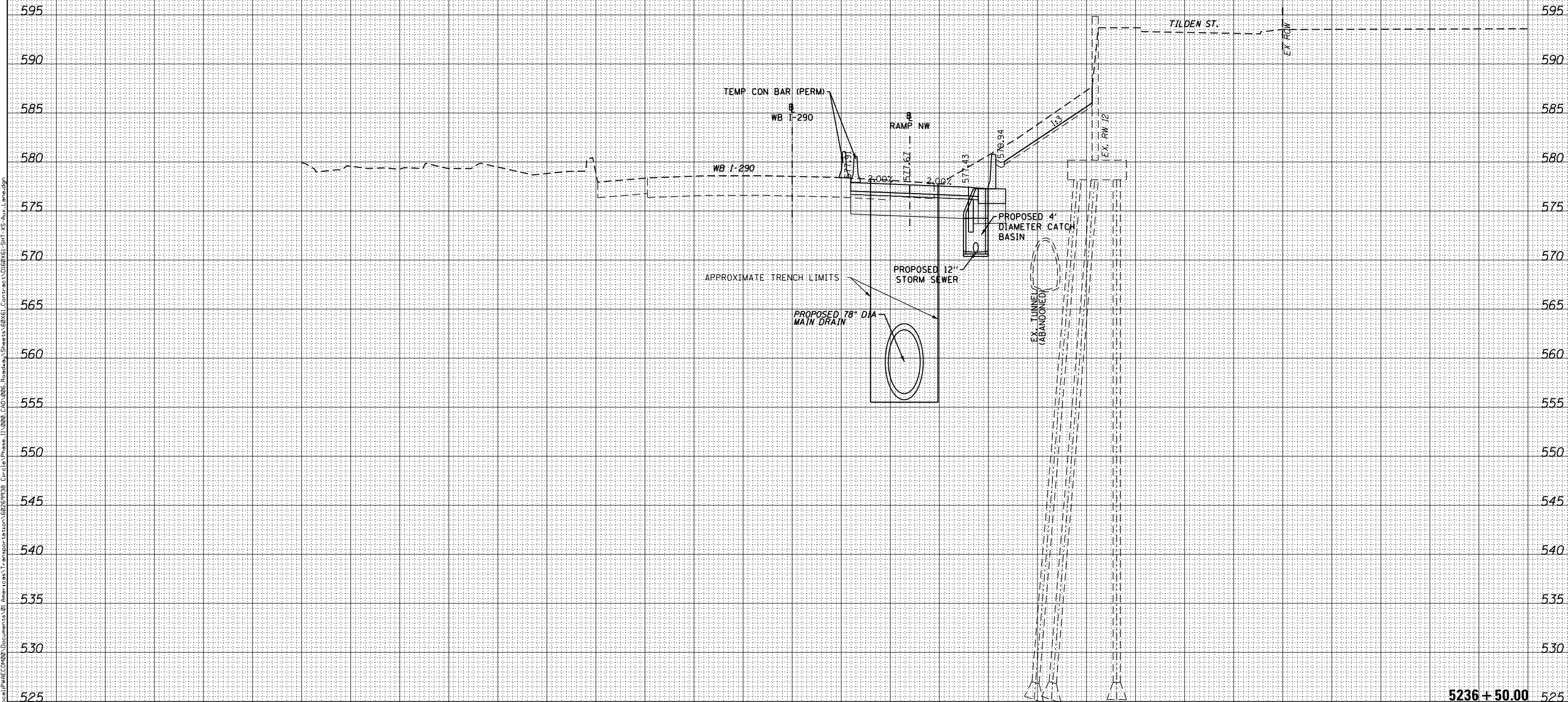
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION.
 DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD
 INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES
 ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND
 PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION
 AND THE PROPOSED PLANS.

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
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TEMPLATE	
AREAS CHECKED	
NO.	

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CUT = 141.63 SF FILL = 0.00 SF



D160X61-SHT-XS-Aux.Lane.dgn	DESIGNED - SDH	REVISED -
USER NAME = hollsd	DRAWN - SDH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/17/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB I-290 AUXILIARY LANE
 SCALE: 1:5V, 1:10H SHEET 28 OF 49 SHEETS STA. 5236+50.00 TO STA. 5236+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	296
				CONTRACT NO. 60X61
ILLINOIS FED. AID PROJECT				

