

09-19-14 LETTING ITEM 011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	173	1
ILLINOIS CONTRACT NO. 60W77			* 173 & 20 = 193	

D-91-191-10



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

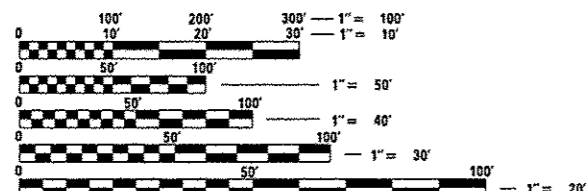
THIS PROJECT IS LOCATED
IN THE VILLAGE OF SUMMIT

TRAFFIC DATA:

IL 171
2008 ADT = 41,800
2030 ADT = 42,000
DESIGN SPEED = 50 MPH
POSTED SPEED = 50 MPH
FUNCTIONAL CLASSIFICATION = STRATEGIC REGIONAL ARTERIAL (SRA)

I-55 (FAI 55)
2012 ADT = 143,995
DESIGN SPEED = 70 MPH
POSTED SPEED = 55 MPH
FUNCTIONAL CLASSIFICATION = INTERSTATE

FAP ROUTE 373 (IL ROUTE 171 (SB))
SB IL 171 & SB IL 171 RAMP TO NB I-55 OVER
I-55 (STEVENSON EXPRESSWAY)
SECTION: (0707-608 & 611)HB-B
BRIDGE REPLACEMENT
PROJECT: ACNHPP-0373 (029)
COOK COUNTY
C-91-370-13

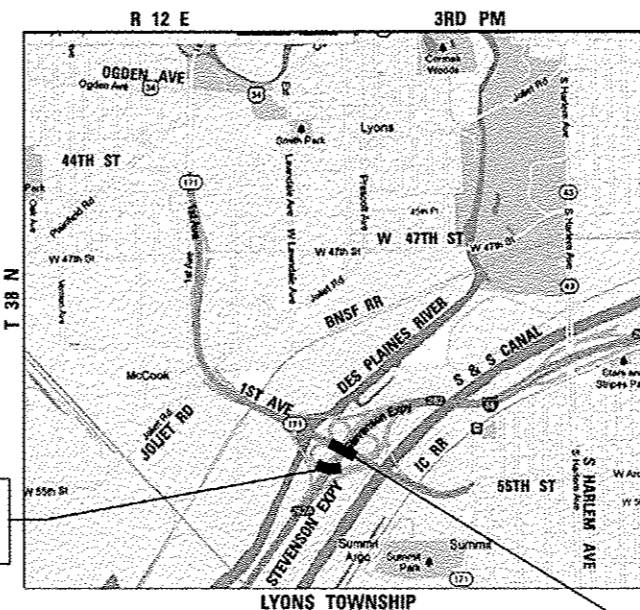


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: RAJENDRA C. SHAH, P.E. (847) 705-4555

CONTRACT NO. 60W77



LOCATION MAP

SCALE: NOT TO SCALE

GROSS LENGTH = 1058.77 FT = 0.20 MILE (SN 016-1510 & SN 016-1512)
NET LENGTH = 1058.77 FT = 0.20 MILE (SN 016-1510 & SN 016-1512)



KURT J. NAUS
081-006574
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
EXPIRATION DATE 11-30-2014
DATE: 6/23/14

JOANN M. MAJEWSKI
82-045674
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
EXPIRATION DATE 11-30-15
DATE: 6/23/14

SN 016-1510
SB IL 171 OVER I-55
(STA 39+06.08 TO STA 44+22.78)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED June 17, 2014
John D. Baranzelli, P.E., Jr.
acting DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Aug 15, 2014
Orner Osman, P.E., Jr.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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engineers · scientists · planners
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Chicago, Illinois 60601
312-565-0450 Job No. 10093

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DISTRICT 1 DETAILS

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TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING

STATE STANDARDS


STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREA OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-10	BRIDGE APPROACH CONNECTOR PAVEMENT
421001-02	BAR REINFORCEMENT FOR CRC PAVEMENT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
483001-04	PCC SHOULDER
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN TYPE A
602301-04	INLET TYPE A
602401-03	MANHOLE TYPE A
604001-03	FRAME AND LIDS TYPE 1
604006-04	FRAME AND GRATE TYPE 3
610001-06	SHOULDER INLET WITH CURB
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
637006-03	CONCRETE BARRIER, DOUBLE FACE 42IN HEIGHT
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER

HOT-MIX ASPHALT REQUIREMENTS

MIXTURE TYPE	THICKNESS	VOIDS @ N _{DES}	OMP
SB IL 171 BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) STABILIZED SUB-BASE, HOT-MIX ASPHALT (STABILIZED SUBBASE) (HMA BINDER IL-19mm)	4"	3% @ 50 Gyr	QC/OA
RAMP E BRIDGE APPROACH PAVEMENT CONNECTOR (HMA) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5) HOT-MIX ASPHALT BASE COURSE, 10 3/4" (HMA BINDER IL-19mm) (4 LIFTS)	2" 2 1/4" MIN.	4% @ 90 Gyr 4% @ 70 Gyr	QC/OA QC/OA
RAMP E SHOULDERS - BRIDGE APPROACH PAVEMENT CONNECTOR (HMA) HOT-MIX ASPHALT SHOULDER, 12 3/4" (HMA BINDER IL-19mm) (5 LIFTS)	2 1/4" MIN.	4% @ 50 Gyr	QC/OA
I-55 CD ROAD PAVEMENT HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL-9.5) HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 3 1/2"	1 1/2" 2 1/4" MIN.	4% @ 70 Gyr 4% @ 70 Gyr	QC/OA QC/OA
I-55 MAINLINE AND CD ROAD SHOULDERS HOT-MIX ASPHALT SHOULDER, 15" (HMA BINDER IL-19mm) (6 LIFTS)	2 1/4" MIN.	4% @ 70 Gyr	QC/OA

NOTE 1

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURES IS 112 LBS/SD YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG - 76 - 22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 - 22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.


FILE NAME =	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS & HMA REQUIREMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...General\0168477-ehi-index.dgn	DRAWN - TMB	REVISED -				373	10707-608 & 611HB-B	COOK	177	2
USER NAME = sbionk	CHECKED - JMM	REVISED -				CONTRACT NO. 60W77				
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE: N.T.S.						SHEET 1 OF 1 SHEETS		STA. TO STA.		

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF MCCOOK, LYONS AND SUMMIT.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL SWEEP AND CLEAN THE PAVEMENT SURFACE, PER ARTICLE 107.15 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTING AND ORDERING OF MATERIALS.
8. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 AND EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
9. THE RESIDENT ENGINEER SHALL CONTACT JOE ERKERT, AREA TRAFFIC FIELD ENGINEER, AT (224) 217-8632, A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
10. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROPERTY.
11. 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
12. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
13. THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WAS DEVELOPED FROM PREVIOUS PLANOMETRICS AND AERIAL PHOTOGRAPHY FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. ALIGNMENT TIES HAVE BEEN ESTABLISHED FOR THE IL 171 BASELINE. THEREFORE, ALL ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS. ALIGNMENTS ARE BASELINES.
14. VERTICAL BARRICADES WILL REMAIN IN PLACE ALONG THE EDGES OF PAVEMENT AS SHOWN IN THE SUGGESTED MOT PLANS UNTIL THE SURFACE COURSE AND PROPOSED PAVEMENT MARKING EDGE LINES HAVE BEEN COMPLETED.
15. DRAINAGE ADJUSTMENT, CLEANING OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
16. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH REVISED TRAFFIC PATTERNS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PAVEMENT MARKING REMOVAL.
17. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)" AS SHOWN IN THE PLANS.
18. SAWCUTTING PAVEMENT SHALL BE INCLUDED IN THE COST OF VARIOUS PAVEMENT PAY ITEMS.
19. CONTACT IDOT EMC AT 773-287-7600 TO LOCATE IDOT ELECTRICAL FACILITIES WITHIN THE CONTRACT LIMITS.
20. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS, PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) and USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11.0.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
21. THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRDCC) HAS MANY FACILITIES LOCATED WITHIN THE PROJECT LIMITS. THESE FACILITIES SHALL BE LOCATED PRIOR TO BEGINNING OF WORK. MINIMUM HORIZONTAL/VERTICAL CLEARANCE OF TWO FEET SHALL BE MAINTAINED BETWEEN MWRDCC SEWERS AND ANY PROPOSED WORK. MWRDCC PERSONNEL SHALL HAVE 24 HOUR-A-DAY UNRESTRICTED ACCESS TO ALL MWRDCC FACILITIES. NO ACCESS HATCHES AND MANHOLE COVERS ON MWRDCC STRUCTURES AND MANHOLES WITHIN THE PROJECT LIMITS SHALL BE BURIED OR COVERED. NO DEBRIS SHALL ENTER MWRDCC STRUCTURES, SEWERS OR FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL MWRDCC FACILITIES FROM ALL CONSTRUCTION OPERATIONS AND EQUIPMENT. FOR ANY QUESTIONS REGARDING ACCESS TO MWRDCC FACILITIES OR FIELD LOCATION, CONTACT MR. RAJIO BASARIA, SENIOR CIVIL ENGINEER, AT (708) 588-0480. THE CONTRACTOR SHALL COORDINATE WITH THE MWRDCC MAINTENANCE AND OPERATION DEPARTMENT PRIOR TO BEGINNING ANY WORK NEAR THE MWRDCC RAILROAD LINE NORTH OF THE SANITARY AND SHIP CANAL. CONTACT MR. DANIEL COLLINS, SUPERVISING CIVIL ENGINEER, AT (708) 588-4300.

COMMITMENTS

1. THE NAVIGATIONAL LIGHTS LOCATED ON THE UNDERSIDE OF THE IL 171 BRIDGES OVER THE SANITARY AND SHIP CANAL (SN 016-0487 AND SN 016-0486) MUST REMAIN IN SERVICE DURING CONSTRUCTION.
2. THE COAST GUARD WILL NEED TO APPROVE ANY WORK BELOW THE LOW STEEL OF THE IL 171 BRIDGES OVER THE SHIP AND SANITARY CANAL.

FILE NAME =	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & COMMITMENTS	F.A.P. RATE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...ND162W77-ahg-general notes.dgn	DRAWN - TMB	REVISED -				373	10T07-608 & 611HB-B	COOK	177	3
USER NAME = tpienk	CHECKED - JMM	REVISED -				CONTRACT NO. 60W77				
DATE = 6/23/2014	DATE - 6/23/2014	REVISED -				ILLINOIS FED. AID PROJECT				
PLOT DATE = 6/23/2014						SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	45	45						
20101000	TEMPORARY FENCE	FOOT	542	542						
20200100	EARTH EXCAVATION	CU YD	1318	1318						
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	654	654						
20400800	FURNISHED EXCAVATION	CU YD	24,097	24,097						
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	193	193						
28000305	TEMPORARY DITCH CHECKS	FOOT	100	100						
28000315	AGGREGATE DITCH CHECKS	TON	88	88						
28000400	PERIMETER EROSION BARRIER	FOOT	1602	1602						
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	6824	6824						
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3037	3037						
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	15	15						
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	10	10						
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	89	89						

• SPECIALTY ITEM

FILE NAME =	DESIGNED - AAA	REVISED -
...General\0160477-shs-SC0-01.dgn	DRAWN - TMB	REVISED -
USER NAME = tblonk	CHECKED - JMM	REVISED -
PLOT DATE = 6/27/2014	DATE - 6/23/2014	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES


SCALE: N.T.S. SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	10707-608 & 611MB-B	COOK	177	4
CONTRACT NO. GOW77			ILLINOIS FED. AID PROJECT	

Rev.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN	
42001300	PROTECTIVE COAT	SO YD	2198	2198						
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SO YD	1281	1281						
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	744	744						
44000100	PAVEMENT REMOVAL	SO YD	307	307						
44001980	CONCRETE BARRIER REMOVAL	FOOT	677	677						
44004250	PAVED SHOULDER REMOVAL	SO YD	3103	3103						
48101202	AGGREGATE SHOULDERS, TYPE B	CU YD	14	14						
48203057	HOT-MIX ASPHALT SHOULDERS, 15"	SO YD	2693	2693						
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1					
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1				
50105220	PIPE CULVERT REMOVAL	FOOT	121	121						
50157300	PROTECTIVE SHIELD	SO YD	2078		1,137	941				
50200100	STRUCTURE EXCAVATION	CU YD	2227		1,518	709				
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	472			472				

• SPECIALTY ITEM


FILE NAME : ...General\0168W77-141-500-02.dgn	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				P.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME : tblank	DRAWN - TMB	REVISED -							373	10707-608 & 611HB-B	COOK	177	5
PLOT DATE : 6/27/2014	CHECKED - JMM	REVISED -			SCALE: N.T.S.	SHEET 2 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 60W77		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN
50300225	CONCRETE STRUCTURE	CU YD	803.2		427.8	375.4			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	958.5		512.7	445.8			
50300260	BRIDGE DECK GROOVING	SQ YD	2972		1,849	1,123			
50300280	CONCRETE ENCASEMENT	CU YD	9.0		5.2	3.8			
50300285	FORM LINER TEXTURED SURFACE	SQ FT	694		306	388			
50300300	PROTECTIVE COAT	SQ YD	3729		2,197	1,532			
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1.00		0.49	0.51			
50500505	STUD SHEAR CONNECTORS	EACH	14,037		8,505	5,532			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	379,270		201,620	177,650			
50800515	BAR SPLICERS	EACH	80			80			
51100100	SLOPE WALL 4 INCH	SQ YD	397		246	151			
51201600	FURNISHING STEEL PILES HP12X53	FOOT	5652		2,644	3,008			
51202305	DRIVING PILES	FOOT	5652		2,644	3,008			
51203600	TEST PILE STEEL HP12X53	EACH	8		4	4			

* SPECIALTY ITEM


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				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN
51204650	PILE SHOES	EACH	134		72	62			
51500100	NAME PLATES	EACH	2		1	1			
52000110	PREFORMED JOINT STRIP SEAL	FOOT	201		118	83			
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	21		21				
52100510	ANCHOR BOLTS, 3/4"	EACH	48			48			
52100520	ANCHOR BOLTS, 1"	EACH	16			16			
52100530	ANCHOR BOLTS, 1 1/4"	EACH	42		42				
52100540	ANCHOR BOLTS, 1 1/2"	EACH	14		14				
54215547	METAL END SECTIONS 12"	EACH	8						8
58700300	CONCRETE SEALER	SO FT	11359		5,894	5,465			
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	122		60	62			
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8						8
60105000	PIPE DRAINS, CORRUGATED STEEL OR ALUMINUM ALLOY 12"	FOOT	320						320
60107700	PIPE UNDERDRAINS 6"	FOOT	383						383

* SPECIALTY ITEM

FILE NAME =	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = tblank	DRAWN - TMB	REVISED -							373	10707-608 & 611HB-8	COOK	177	7
PLOT DATE = 6/27/2014	CHECKED - JMM	REVISED -			SCALE: N.T.S. SHEET 4 OF 10 SHEETS STA. TO STA.				CONTRACT NO. 60W77				
DATE - 6/23/2014	REVISOR -	REVISED -			ILLINOIS FED. AID PROJECT								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN	
60200305	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 3 FRAME AND GRATE	EACH	2							2
60218300	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2							2
60235610	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	EACH	16							16
60500040	REMOVING MANHOLES	EACH	2							2
60500050	REMOVING CATCH BASINS	EACH	2							2
60500060	REMOVING INLETS	EACH	16							16
60900515	CONCRETE THRUST BLOCKS	EACH	8							8
61000225	TYPE F INLET BOX, STANDARD 610001	EACH	8							8
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	437.5				437.5			
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1				1			
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	5				5			
63200310	GUARDRAIL REMOVAL	FOOT	1274				1274			
63700275	CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT	FOOT	522	522						
63700805	CONCRETE BARRIER TRANSITION	FOOT	90	90						

• SPECIALTY ITEM

FILE NAME =	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = tbiernk	DRAWN - TMB	REVISED -							373	10701-608 & 611HS-8	COOK	177	8
PLOT DATE = 6/27/2014	CHECKED - JMM	REVISED -			SCALE: N.T.S. SHEET 5 OF 10 SHEETS STA. TO STA.				CONTRACT NO. 60W77				
	DATE - 6/23/2014	REVISED -					ILLINOIS FED. AID PROJECT						

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY	S.N. 016-1510	S.N. 016-1512	SAFETY	SIGN STRUCTURES	DRAINAGE
				0004 URBAN	0011 URBAN	0011 URBAN	0021 URBAN	0040 URBAN	0044 URBAN
63700900	CONCRETE BARRIER BASE	FOOT	522	522					
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	766	766					
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3	3					
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	13	13					
67100100	MOBILIZATION	L SUM	1	1					
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	32	32					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	791	791					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	5600	5600					
70600330	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	7	7					
72000300	SIGN PANEL - TYPE 3	SO FT	195					195	
72400330	REMOVE SIGN PANEL - TYPE 3	SO FT	195				195		
73304000	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	16					16	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2141				2141		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	150				150		

* SPECIALTY ITEM

FILE NAME =	DESIGNED - AAA	REVISED -
...General\0162077\shk-500-86.dgn	DRAWN - TMB	REVISED -
USER NAME = telenk	CHECKED - JMM	REVISED -
PLOT DATE = 6/27/2014	DATE - 6/23/2014	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 6 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	10707-608 & 6111HB-B	COOK	177	9
CONTRACT NO. 60W??			ILLINOIS FED. AID PROJECT	

Rev.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	591				591		
78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	977				977		
78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	34				34		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4				4		
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	14				14		
78200530	BARRIER WALL MARKERS, TYPE C	EACH	241				241		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1920				1920		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11				11		
81025400	CONDUIT ENCASED, REINFORCED CONCRETE, 4" DIA., PVC 1 WIDE X 1 HIGH	FOOT	500				500		
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	2500				2500		
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA	FOOT	150				150		
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	150				150		
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	441				441		
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	200				200		


* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN
81100705	CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	20				20		
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	280				280		
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"	EACH	2				2		
81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	20				20		
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"X12"X6"	EACH	7				7		
81300800	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X12"X6"	EACH	2				2		
81400200	HEAVY-DUTY HANDHOLE	EACH	6				6		
81603081	UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	325				325		
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1730				1730		
81800190	AERIAL CABLE, 2-1/C NO. 2 WITH MESSENGER WIRE	FOOT	2500				2500		
82107200	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	10				10		
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	20				20		
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	7				7		
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2				2		

• SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	150				150			
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	5				5			
89500510	CABINET HOUSING EQUIPMENT REMOVAL	EACH	1				1			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6500				6500			
89502380	REMOVE EXISTING HANDHOLE	EACH	2				2			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3				3			
Z0004552	APPROACH SLAB REMOVAL	SQ YD	250	250						
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	101	101						
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1						
Z0020800	EROSION CONTROL CURB	FOOT	240							240
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	280	280						
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	13				13			
Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	3904		1,898	2,006				
Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	383							383

• SPECIALTY ITEM

FILE NAME =	DESIGNED - AAA	REVISED -	 engineers - scientists - planners	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...General\0162077-ah-500-09.dgn	DRAWN - TMB	REVISED -						373	10707-608 & 6111HB-B	COOK	177	12				
USER NAME = tblank	CHECKED - JMM	REVISED -		SCALE: N.T.S. SHEET 9 OF 10 SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT CONTRACT NO. 60W77								
PLOT DATE = 6/27/2014	DATE - 6/23/2014	REVISED -														

Rev.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY 0004 URBAN	S.N. 016-1510 0011 URBAN	S.N. 016-1512 0011 URBAN	SAFETY 0021 URBAN	SIGN STRUCTURES 0040 URBAN	DRAINAGE 0044 URBAN
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	172		88	84			
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	5052		2,344	2,708			
Ø Z0076600	TRAINEES	HOUR	1000	1000					
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000					
• X0322247	MAINTENANCE OF EXISTING TRAFFIC SURVEILLANCE	L SUM	1				1		
• X0322441	DIGITAL LOOP DETECTOR SENSOR UNIT (4 CHANNEL)	EACH	1				1		
• X0322442	TONE EQUIPMENT - 3 FREQUENCY RECEIVER PROGRAMMABLE	EACH	4				4		
• X0322443	TONE EQUIPMENT - 3 FREQUENCY TRANSMITTER PROGRAMMABLE	EACH	4				4		
• X0322444	TONE EQUIPMENT - POWER SUPPLY	EACH	2				2		
• X0322445	TONE EQUIPMENT - MOUNTING FRAME	EACH	1				1		
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	3	3					
X0323149	TEMPORARY MECHANICALLY STABILIZED EARTH RETAINING WALL	SO FT	336		336				
• X0323898	CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	3				3		
• X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	3				3		

• SPECIALTY ITEM

Ø 0042

FILE NAME =	DESIGNED - AAA	REVISED -
...General\0168777-sht-500-18.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 6/27/2014	DATE - 6/23/2014	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)H8-B	COOK	177	13
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

Rev.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	
				ROADWAY	S.N. 016-1510	S.N. 016-1512	SAFETY	SIGN STRUCTURES	DRAINAGE	
				0005 URBAN	0014 URBAN	0014 URBAN	0021 URBAN	0040 URBAN	0044 URBAN	
X0323957	FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	4				4			
X0325040	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	2500				2500			
X0325349	TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY)	FOOT	425	425						
X0327236	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	1				1			
X0326461	CLOSED CIRCUIT TELEVISION EQUIPMENT, FIBER OPTIC DISTRIBUTION	EACH	3				3			
X0327261	CABINET HOUSING EQUIPMENT, TYPE IV	EACH	1				1			
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	140	140						
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	382		382					
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	3,276		3,276					
X5210100	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 150K	EACH	4			4				
X5210120	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 250K	EACH	4			4				
X5210130	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 300K	EACH	4			4				
X5210340	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED - 500K	EACH	4			4				
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	179		111	68				
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1						

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• SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	
				ROADWAY	S.N. 016-1510	S.N. 016-1512	SAFETY	SIGN STRUCTURES	DRAINAGE	
				0005 URBAN	0014 URBAN	0014 URBAN	0021 URBAN	0040 URBAN	0044 URBAN	
X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	2398	2398						
X8040310	ELECTRIC SERVICE DISCONNECT	EACH	2				2			
X8710027	FIBER OPTIC CABLE, 4 FIBERS, SINGLE MODE	FOOT	300				300			
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	5000				5000			
X8730249	ELECTRIC CABLE IN CONDUIT, NO. 19 6/C	FOOT	750				750			
X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 4/C, TWISTED, SHIELDED	FOOT	1100				1100			
X8850102	INDUCTION LOOP	FOOT	40				40			
XX006821	CONCRETE TRUCK WASHOUT	L SUM	1				1			
X0328502	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, GALVANIZED STEEL, 50' MOUNTING HEIGHT	EACH	2				2			
X0325500	STAINLESS STEEL JUNCTION BOX TYPE "J" INSTALL ONLY	EACH	4				4			
87000785	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V(XLP-TYPE TC) 2/C NO. 2 AND NO.6 GRND	FOOT	1500				1500			
X0327965	ELECTRIC CABLE NO. 19, 50 PAIR	FOOT	5500				5500			
X0329965	TEMPORARY WOOD POLE, 50 FT, CLASS 4	L SUM	1				1			

* SPECIALTY ITEM

FILE NAME	DESIGNED -	REVISED -
...General\080777-shr-500-12.dgn	DRAWN -	REVISED -
USER NAME - jmojwsk	CHECKED -	REVISED -
PLOT DATE - 6/23/2014	DATE - 6/23/2014	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

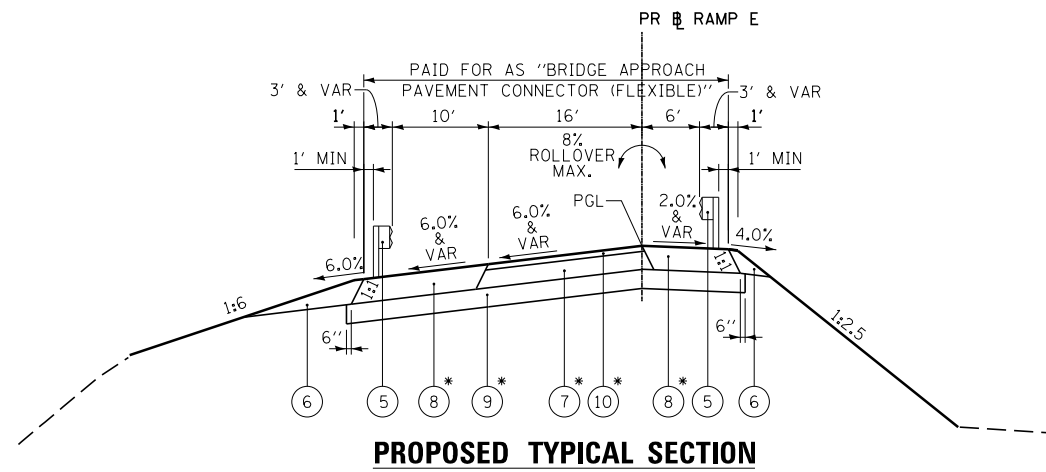
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.P. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	10707-608 & 611HB-B	COOK	177	136
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

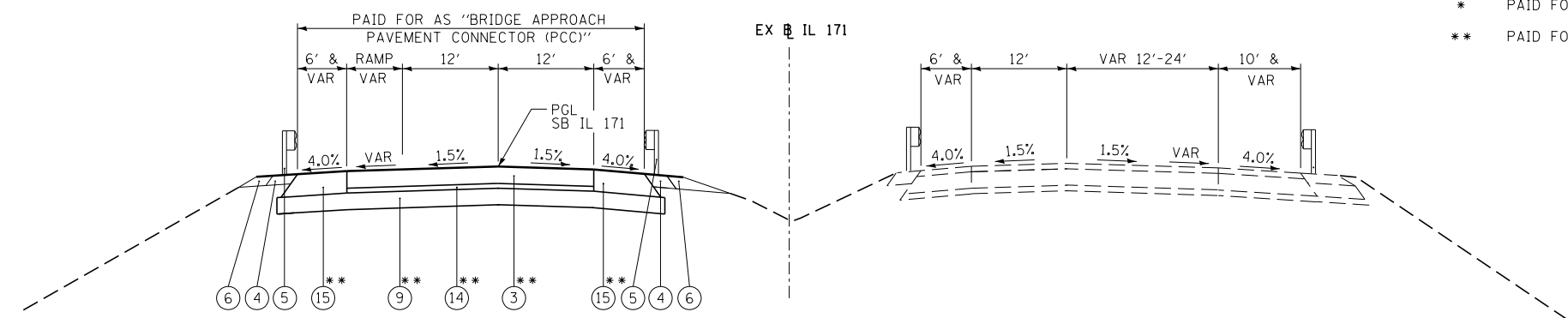
Rev.

12



**PROPOSED TYPICAL SECTION
RAMP E**

BRIDGE APPROACH CONNECTOR FROM STA 212+63.43 TO STA 213+63.43
 BRIDGE OMISSION FROM STA 213+63.43 TO STA 217+05.53
 BRIDGE APPROACH CONNECTOR FROM STA 217+05.53 TO STA 218+05.53
 SE SHOULDER TRANSITION IN FROM STA 211+39.43 TO STA 212+63.43
 SE TRANSITION OUT FROM STA 216+83.98 TO STA 218+48.98



**PROPOSED TYPICAL SECTION
IL 171**

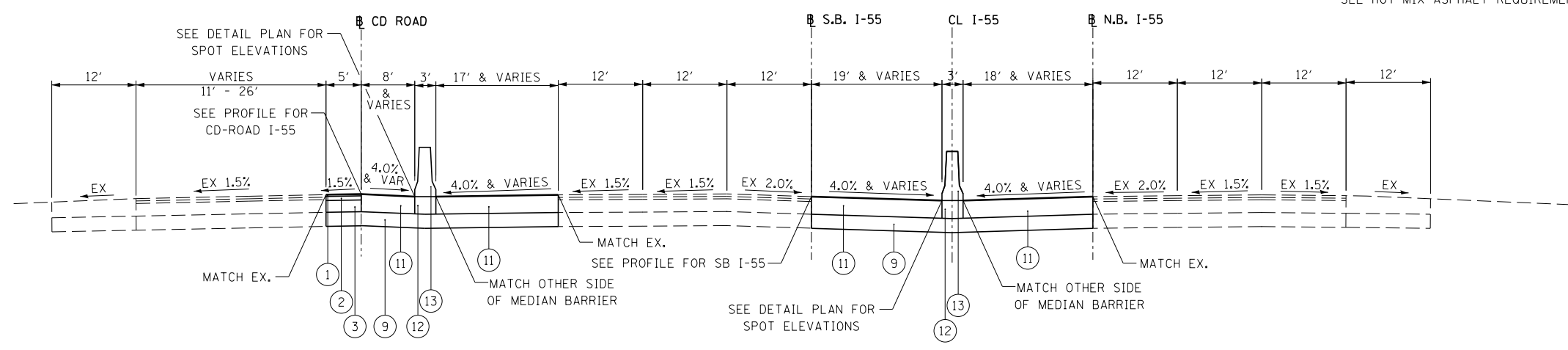
BRIDGE APPROACH CONNECTOR FROM STA 39+06.08 TO STA 40+06.08
 BRIDGE OMISSION FROM STA 40+06.08 TO STA 43+22.78
 BRIDGE APPROACH CONNECTOR FROM STA 43+22.78 TO STA 44+22.78

LEGEND:

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 3"
- ** ③ PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED), 10"
- ④ HMA STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
- ⑤ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑥ AGGREGATE SHOULDERS, TYPE B, 6"
- * ⑦ HOT-MIX ASPHALT BASE COURSE, 10 3/4"
- * ⑧ HOT-MIX ASPHALT SHOULDERS, 12 3/4"
- ** & * ⑨ AGGREGATE SUBGRADE IMPROVEMENT 12"
- * ⑩ HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL-9.5), 2"
- ⑪ HOT-MIX ASPHALT, SHOULDERS, 15"
- ⑫ CONCRETE BARRIER BASE
- ⑬ CONCRETE BARRIER, DOUBLE FACE, 42" HEIGHT
- ** ⑭ STABILIZED SUBBASE HOT-MIX ASPHALT, 4"
- ** ⑮ PORTLAND CEMENT CONCRETE SHOULDERS 14"
- * PAID FOR AS "BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)"
- ** PAID FOR AS "BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)"

NOTES:

SEE BRIDGE PLANS FOR BRIDGE DECK CROSS SECTIONS
 SEE HOT-MIX ASPHALT REQUIREMENT ON SHEET 2



**PROPOSED TYPICAL SECTION
I-55**

FROM STA 310+04.62 TO STA 313+03.36
 FROM STA 316+24.66 TO STA 318+12.75

FILE NAME = ... \D160W77-typr-ompe-i55-01.dgn	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = toddblank	DRAWN - TMB	REVISED -						373	(0707-608 & 611)HB-B	COOK	177	14
PLOT DATE = 8/7/2014	CHECKED - JMM	REVISED -			SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.					CONTRACT NO. 60W77		
DATE - 6/23/2014	REVISI -	REVISED -			ILLINOIS FED. AID PROJECT							

PAVEMENT SCHEDULE

LOCATION			30300112	40603085	40603340	42000501	42001300	42001420	42001430	48101202	48203057	Z0005216	X4060110
AGGREGATE SUBGRADE IMPROVEMENT 12"			HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	PROTECTIVE COAT	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	AGGREGATE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS, 15"	HOT-MIX ASPHALT STABILIZATION 6" AT SPBGR	BITUMINOUS MATERIALS (PRIME COAT)	
ROAD	START STRCT	END STRCT	SQ YD	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD	CU YD	SQ YD	SQ YD	POUND
IL 171	016-0486	016-1510				625	625.03					34	
IL 171	016-1510	016-0483				356	655.58			11.213		67	
RAMP E	016-1026	016-1512							402.93	2.51			
RAMP E	016-1512	END PROJ							340.25				
I-55	016-1510	016-1512	3037	15	10	89					2693		140
TOTAL			3037	15	10	89	981	1281	744	14	2693	101	140

DRAINAGE SCHEDULE

LOCATION			60100060	60107700	60200305	60218300	60235610	60500040	60500050	60500060	61000225
CONCRETE HEADWALLS FOR PIPE DRAINS			PIPE UNDERDRAIN S 6"	CATCH BASINS, TYPE A, 4'- DIAMETER, TYPE 3	MANHOLES, TYPE A, 4'- DIAMETER, TYPE 1 FRAME, OPEN LID	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	REMOVING MANHOLES	REMOVING CATCH BASINS	REMOVING INLETS	TYPE F INLET BOX, STANDARD 610001	
ROAD	STRUCTURE		EACH	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	
I-55	016-1512		4	195		10				10	
I-55	016-1510		4	188	2	2	6	2	2.00	6	
IL-171	016-1512										4
IL-171	016-1510										4
TOTAL			8	383	2	2	16	2	2	16	8

MOT SCHEDULE

LOCATION	SIDE	FROM STA	TO STA	70301000	70400100	70600330	78100200	78200530	78300100	78300200	X7030040
				WORK ZONE PAVEMENT MARKING REMOVAL	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY- REDIRECTIVE, NARROW), TEST LEVEL 3	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	BARRIER WALL MARKERS, TYPE C	PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH
				(SQ FT)	(FOOT)	(EACH)	(EACH)	(EACH)	(SQ FT)	(EACH)	(FOOT)
I-55	CD ROAD/SB	310+11.95	320+50.65	791	2825	4	14	113	1920	11	2398
I-55	SB/NB	310+48.39	319+95.55		2775	3		111			
TOTAL				791	5600	7	14	224	1920	11	2398

CONCRETE BARRIER SCHEDULE

LOCATION	FROM STA	TO STA	42001300	63700275	63700805	63700900	64300260	78200530	X0325349
			PROTECTIVE COAT	CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT	CONCRETE BARRIER TRANSITION	CONCRETE BARRIER BASE	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	BARRIER WALL MARKERS, TYPE C	TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY)
			SQ YD	FOOT	FOOT	FOOT	EACH	(EACH)	FOOT
I-55 (CD ROAD/SB)	310+04.62	312+94.22	520.48	223	30	223			
I-55 (SB/NB)	311+08.28	313+03.36	291.75	125	30	125			
I-55 (CD ROAD/SB)	316+28.08	317+99.90	183.71	78.71	15	78.71	1	6	150
I-55 (SB/NB)	316+24.66	318+12.75	220.68	94.55	15	94.55	2	11	275
TOTAL			1217	522	90	522	3	17	425

REMOVAL SCHEDULE

LOCATION			44000100	44001980	44004250
PAVEMENT REMOVAL			CONCRETE BARRIER REMOVAL	PAVED SHOULDER REMOVAL	
ROAD	START STRCT	END STRCT	SQ YD	FOOT	SQ YD
IL 171	016-0486	016-1510	0		0
IL 171	016-1510	016-0483	0		0
RAMP E	016-1026	016-1512	183		254
RAMP E	016-1512	END PROJ	35		118
I-55	016-1512	016-1510	89	677	2730
TOTAL			307	677	3103

EROSION CONTROL SCHEDULE

LOCATION			20101000	28000250	28000315	28000400	28001100
TEMPORARY FENCE			TEMPORARY EROSION CONTROL SEEDING	AGGREGATE DITCH CHECKS	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL BLANKET	
ROAD	START STRCT	END STRCT	FOOT	POUND	TON	FOOT	SQ YD
IL 171	016-0486	016-1510		26.1	0	321	1265
IL 171	016-1510	016-0483	542	16.3	0	321	789
RAMP E	016-1026	016-1512		107.9	44	480	2733
RAMP E	016-1512	END PROJECT		42.1	44	480	2037
TOTAL			542	193	88	1602	6824

PAVEMENT MARKING SCHEDULE

LOCATION			78000200			78000400	78005110			78005140	78005150	78100100			
			THERMOPLASTIC PAVEMENT MARKING - LINE 4"			THERMOPLASTIC PAVEMENT MARKING - LINE 6"	EPOXY PAVEMENT MARKING - LINE 4"			EPOXY PAVEMENT MARKING - LINE 8"	EPOXY PAVEMENT MARKING - LINE 12"	RAISED REFLECTIVE PAVEMENT MARKER			
			YELLOW LINE	WHITE LINE	WHITE 2' DASH 6' SKIP	WHITE 2' DASH 6' SKIP	YELLOW LINE	WHITE 2' DASH 6' SKIP	WHITE 10' DASH 30' SKIP	FOOT	FOOT	EACH			
SB IL 171	39+05.06	44+23.80								439	42	110	977	34	
RAMP E	212+63.41	218+05.70	540	540											
I-55	310+04	318+12.75	911		150	150									4
TOTAL			1451	540	150	150	439	42	110	977	34	4			

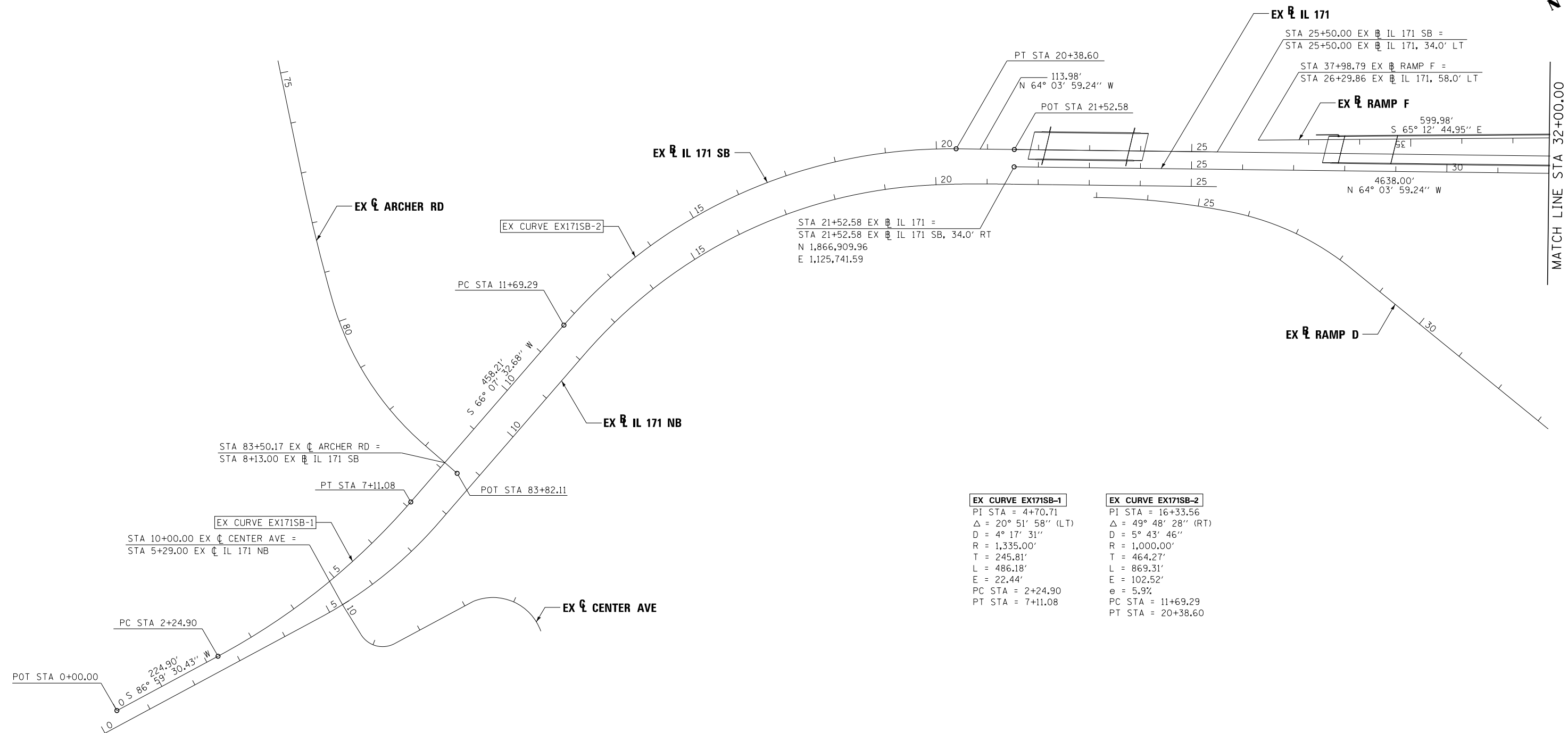
EARTHWORK SCHEDULE

LOCATION	20200100	20201200
EARTH EXCAVATION	EXCAVATION VOLUME TO BE USED IN EMBANKMENT, ADJUSTED FOR 15% SHRINKAGE	EMBANKMENT VOLUME
(CU YD)	(CU YD)	(CU YD)
SN 016-1510	767	652
RAMP E/SN 016-1512	551	468
TOTAL		1,318

Pay Item 20400800 - Furnished Excavation = 24,097 CU YD

GUARDRAIL SCHEDULE

LOCATION		63000001	63100070	63100085	63200310
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS		TRAFFIC BARRIER TERMINAL, TYPE 5	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL REMOVAL	
STRUCTURE NUMBER	QUADRANT	FOOT	EACH	EACH	FOOT
SN 016-1510	SW	0	0	1	24
	NE	87.5	0	1	127
	NW	87.5	0	1	118
SN 016-1512	NW	75	0	1	245
	NE	0	0	0	245
	SE	75	1	0	258
TOTAL		437.5	1	5	1274



EX CURVE EX171SB-1	EX CURVE EX171SB-2
PI STA = 4+70.71	PI STA = 16+33.56
$\Delta = 20^\circ 51' 58''$ (LT)	$\Delta = 49^\circ 48' 28''$ (RT)
D = 4° 17' 31"	D = 5° 43' 46"
R = 1,335.00'	R = 1,000.00'
T = 245.81'	T = 464.27'
L = 486.18'	L = 869.31'
E = 22.44'	E = 102.52'
PC STA = 2+24.90	PC STA = 11+69.29
PT STA = 7+11.08	PT STA = 20+38.60

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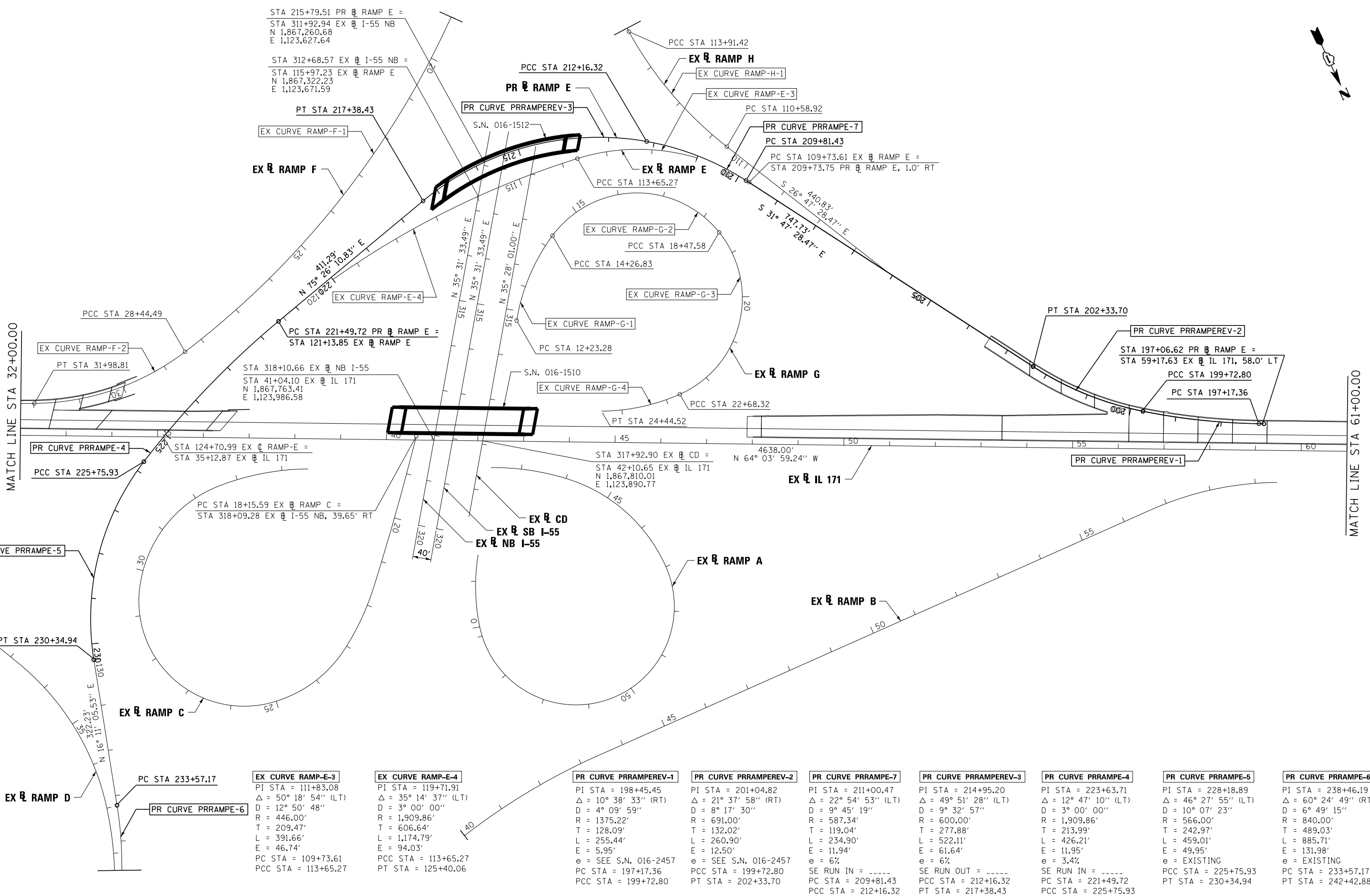


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN

SCALE: 1"=100' SHEET 1 OF 4 SHEETS STA. 0+00.00 TO STA. 32+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 & 611HB-B	COOK	177	16
CONTRACT NO. 60W77				ILLINOIS FED. AID PROJECT



STA 215+79.51 PR \square RAMP E =
 STA 311+92.94 EX \square I-55 NB
 N 1,867,260.68
 E 1,123,627.64

STA 312+68.57 EX \square I-55 NB =
 STA 115+97.23 EX \square RAMP E
 N 1,867,322.23
 E 1,123,671.59

PT STA 217+38.43
 EX CURVE RAMP-F-1

PC STA 221+49.72 PR \square RAMP E =
 STA 121+13.85 EX \square RAMP E

PC STA 221+49.72 PR \square RAMP E =
 STA 121+13.85 EX \square RAMP E

STA 318+10.66 EX \square NB I-55
 STA 41+04.10 EX \square IL 171
 N 1,867,763.41
 E 1,123,986.58

PC STA 18+15.59 EX \square RAMP C =
 STA 318+09.28 EX \square I-55 NB, 39.65' RT

PC STA 233+57.17
 EX CURVE RAMP-E-3
 PI STA = 111+83.08
 Δ = 50° 18' 54" (LT)
 D = 12° 50' 48"
 R = 446.00'
 T = 209.47'
 L = 391.66'
 E = 46.74'
 PC STA = 109+73.61
 PCC STA = 113+65.27

EX CURVE RAMP-E-4
 EX CURVE RAMP-E-3
 EX CURVE RAMP-E-2
 EX CURVE RAMP-E-1

EX CURVE RAMP-G-1
 EX CURVE RAMP-G-2
 EX CURVE RAMP-G-3
 EX CURVE RAMP-G-4

PR CURVE PRRAMPEV-1
 PR CURVE PRRAMPEV-2
 PR CURVE PRRAMPEV-3
 PR CURVE PRRAMPEV-4
 PR CURVE PRRAMPEV-5

PR CURVE PRRAMPE-1
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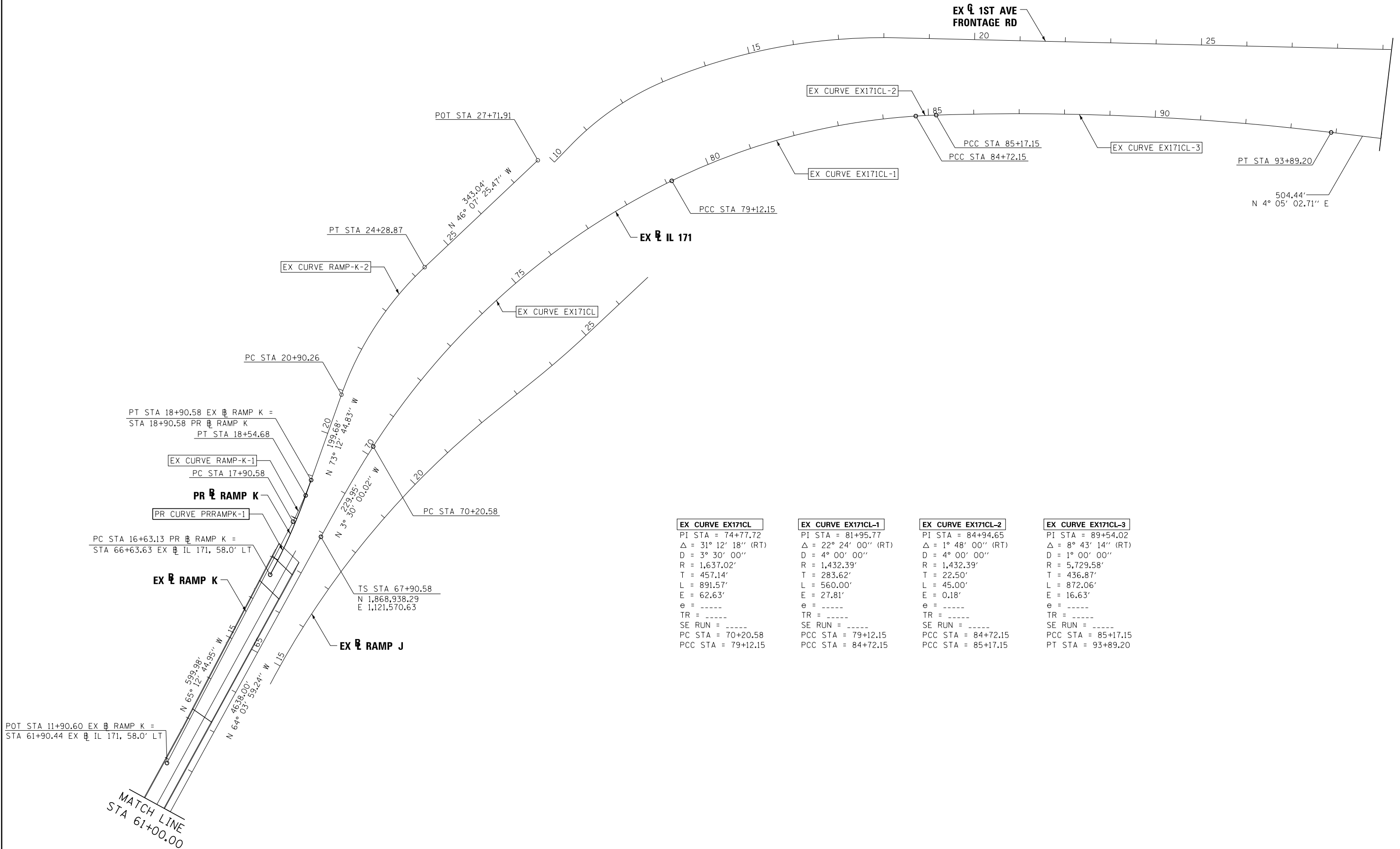
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN

SCALE: 1"=100' SHEET 2 OF 4 SHEETS STA. 32+00.00 TO STA. 61+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	17
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				

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EX CURVE EX171CL
 PI STA = 74+77.72
 $\Delta = 31^\circ 12' 18''$ (RT)
 $D = 3^\circ 30' 00''$
 $R = 1,637.02'$
 $T = 457.14'$
 $L = 891.57'$
 $E = 62.63'$
 $e = \text{-----}$
 $TR = \text{-----}$
 $SE RUN = \text{-----}$
 PC STA = 70+20.58
 PCC STA = 79+12.15

EX CURVE EX171CL-1
 PI STA = 81+95.77
 $\Delta = 22^\circ 24' 00''$ (RT)
 $D = 4^\circ 00' 00''$
 $R = 1,432.39'$
 $T = 283.62'$
 $L = 560.00'$
 $E = 27.81'$
 $e = \text{-----}$
 $TR = \text{-----}$
 $SE RUN = \text{-----}$
 PCC STA = 79+12.15
 PCC STA = 84+72.15

EX CURVE EX171CL-2
 PI STA = 84+94.65
 $\Delta = 1^\circ 48' 00''$ (RT)
 $D = 4^\circ 00' 00''$
 $R = 1,432.39'$
 $T = 22.50'$
 $L = 45.00'$
 $E = 0.18'$
 $e = \text{-----}$
 $TR = \text{-----}$
 $SE RUN = \text{-----}$
 PCC STA = 84+72.15
 PCC STA = 85+17.15

EX CURVE EX171CL-3
 PI STA = 89+54.02
 $\Delta = 8^\circ 43' 14''$ (RT)
 $D = 1^\circ 00' 00''$
 $R = 5,729.58'$
 $T = 436.87'$
 $L = 872.06'$
 $E = 16.63'$
 $e = \text{-----}$
 $TR = \text{-----}$
 $SE RUN = \text{-----}$
 PCC STA = 85+17.15
 PT STA = 93+89.20

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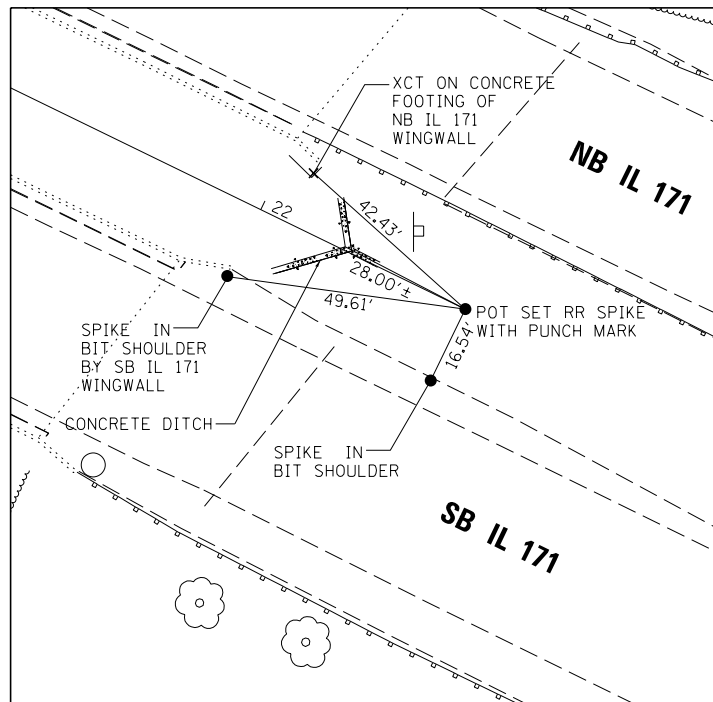


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT PLAN

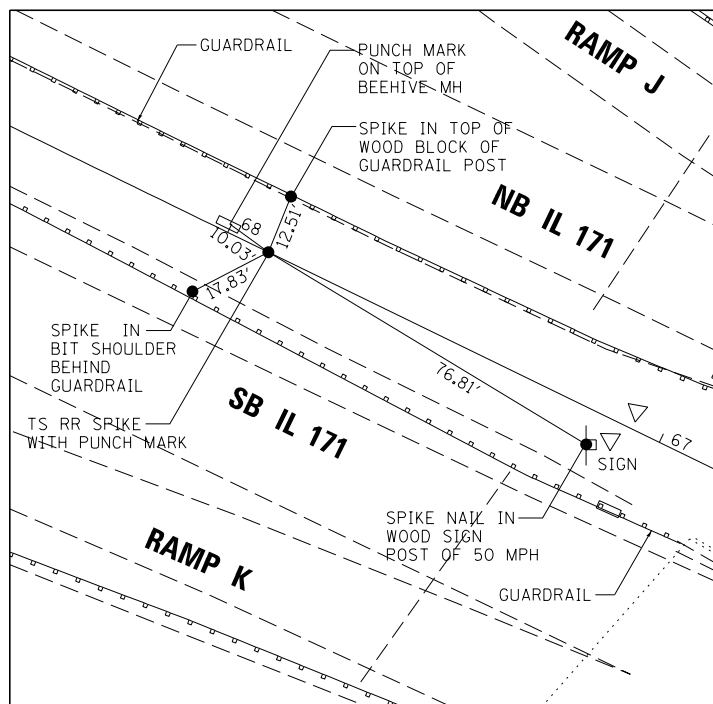
SCALE: 1"=100' SHEET 3 OF 4 SHEETS STA. 61+00.00 TO STA. 95+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	18
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	



POT STA 21+52.58

SET RR SPIKE
WITH PUNCH MARK
N 1866909.96
E 1125741.59



TS STA 67+90.58

SET RR SPIKE
WITH PUNCH MARK
N 1868938.29
E 1121570.63

COORDINATE DATA			
STATION	NORTHING	EASTING	REMARKS
111+83.08	1,867,368.84	1,123,232.98	PI EX CURVE RAMP-E-3
109+73.61	1,867,546.88	1,123,122.63	PC EX CURVE RAMP-E-3
113+65.27	1,867,340.08	1,123,440.46	PCC EX CURVE RAMP-E-3
119+71.91	1,867,256.76	1,124,041.36	PI EX CURVE RAMP-E-4
125+40.06	1,867,535.47	1,124,580.19	PT EX CURVE RAMP-E-4
198+45.45	1,868,443.65	1,122,455.16	PI PR CURVE PRRAMPEREV-1
197+17.36	1,868,499.66	1,122,339.97	PC PR CURVE PRRAMPEREV-1
199+72.80	1,868,367.32	1,122,558.02	PCC PR CURVE PRRAMPEREV-1/PRRAMPEREV-2
201+04.82	1,868,288.65	1,122,664.05	PI PR CURVE PRRAMPEREV-2
202+33.70	1,868,176.44	1,122,733.60	PT PR CURVE PRRAMPEREV-2
211+00.47	1,867,439.71	1,123,190.23	PI PR CURVE PRRAMPE-7
209+81.43	1,867,540.89	1,123,127.52	PC PR CURVE PRRAMPE-7
212+16.32	1,867,370.93	1,123,287.39	PCC PR CURVE PRRAMPE-7/PRRAMPEREV-3
214+95.20	1,867,209.80	1,123,515.01	PI PR CURVE PRRAMPEREV-3
217+38.43	1,867,279.92	1,123,784.93	PT PR CURVE PRRAMPEREV-3
223+63.71	1,867,437.15	1,124,390.12	PI PR CURVE PRRAMPE-4
221+49.72	1,867,383.34	1,124,183.00	PC PR CURVE PRRAMPE-4
225+75.93	1,867,535.47	1,124,580.19	PCC PR CURVE PRRAMPE-4/PRRAMPEREV-5
228+18.90	1,867,647.09	1,124,796.00	PI PR CURVE PRRAMPE-5
230+34.94	1,867,880.43	1,124,863.73	PT PR CURVE PRRAMPE-5
238+46.19	1,868,659.54	1,125,089.85	PI PR CURVE PRRAMPE-6
233+57.17	1,868,189.89	1,124,953.54	PC PR CURVE PRRAMPE-6
242+42.88	1,868,772.88	1,125,565.56	PT PR CURVE PRRAMPE-6

BENCHMARKS

- CHISLED SQUARE ON SW CORNER OF SB IL 171 BRIDGE WINGWALL OVER IC RR EL 629.33
- CHISLED SQUARE ON SE CORNER OF SW WINGWALL OF SN 016-0486 BRIDGE ON LOWEST LEVEL EL 628.20
- CHISLED SQUARE ON WINGWALL ON NE CORNER OF NB IL 171 BRIDGE WALL OVER SANITARY AND SHIP CANAL EL 625.62
- CHISLED SQUARE ON SW CORNER OF SB IL 171 BRIDGE WINGWALL OVER DES PLAINES RIVER EL 622.14
- CHISLED SQUARE ON NE CORNER OF NB IL 171 BRIDGE WALL OVER BNSF RR EL 640.61
- CHISLED SQUARE ON NW CORNER OF SB IL 171 BRIDGE WALL OVER 47TH ST EL 635.53

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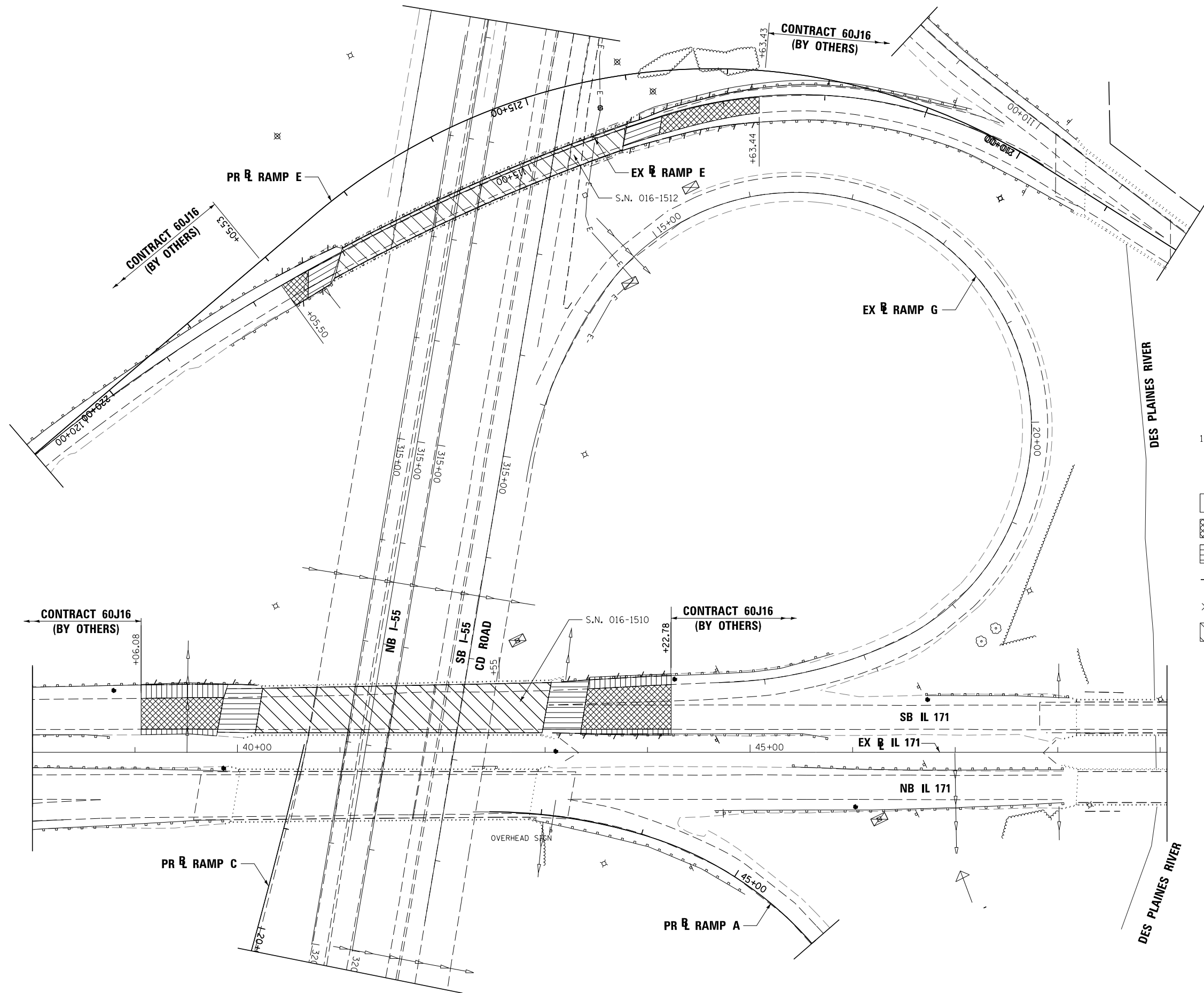


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES, BENCHMARKS
& COORDINATE TABLE

SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.

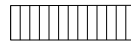

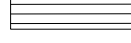
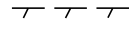
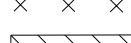
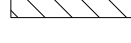

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 & 611JHB-B	COOK	177	19
CONTRACT NO. 60W77				ILLINOIS FED. AID PROJECT



NOTE:

1. TRAFFIC BARRIER TERMINAL REMOVALS SHALL BE INCLUDED WITH GUARDRAIL REMOVALS

LEGEND:

-  PAVED SHOULDER REMOVAL (RAMP E)
-  PAVEMENT REMOVAL (RAMP E)
-  APPROACH SLAB REMOVAL
-  REMOVE STEEL PLATE BEAM GUARDRAIL
-  CONCRETE BARRIER REMOVAL
-  REMOVAL OF EXISTING STRUCTURES
-  TREE REMOVAL (6 TO 15 UNITS DIAMETER)

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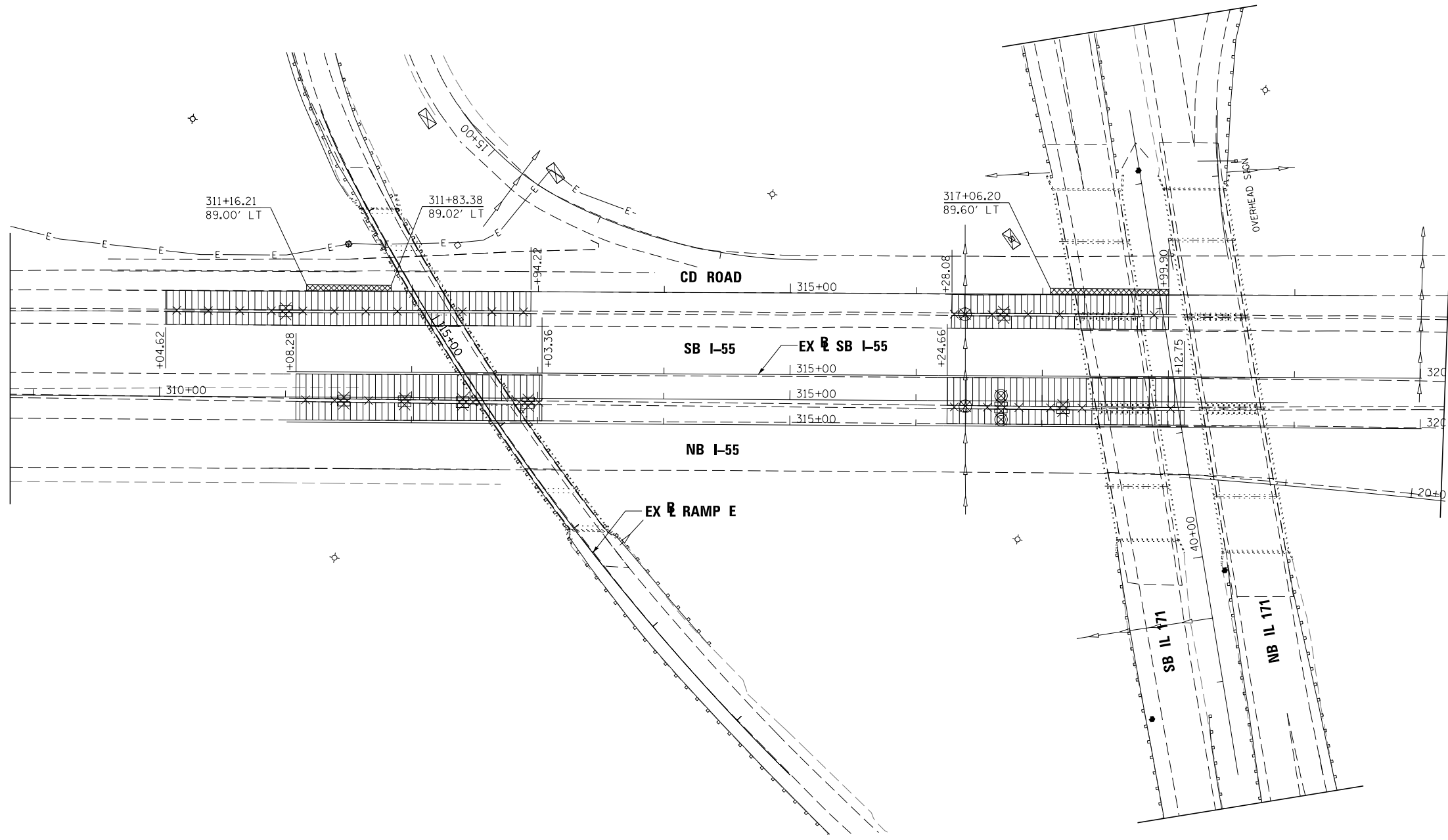
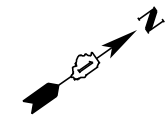


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
SB IL 171 & RAMP E

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.



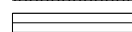
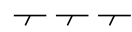




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	20
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	



NOTE

ALL STATIONS ARE TAKEN OFF THE EX Q I-55

LEGEND:

-  PAVED SHOULDER REMOVAL
-  PAVEMENT REMOVAL
-  APPROACH SLAB REMOVAL
-  REMOVE STEEL PLATE BEAM GUARDRAIL
-  CONCRETE BARRIER REMOVAL & PIPE UNDERDRAIN REMOVAL
-  MANHOLE REMOVAL
-  CATCH BASIN REMOVAL
-  INLET REMOVAL

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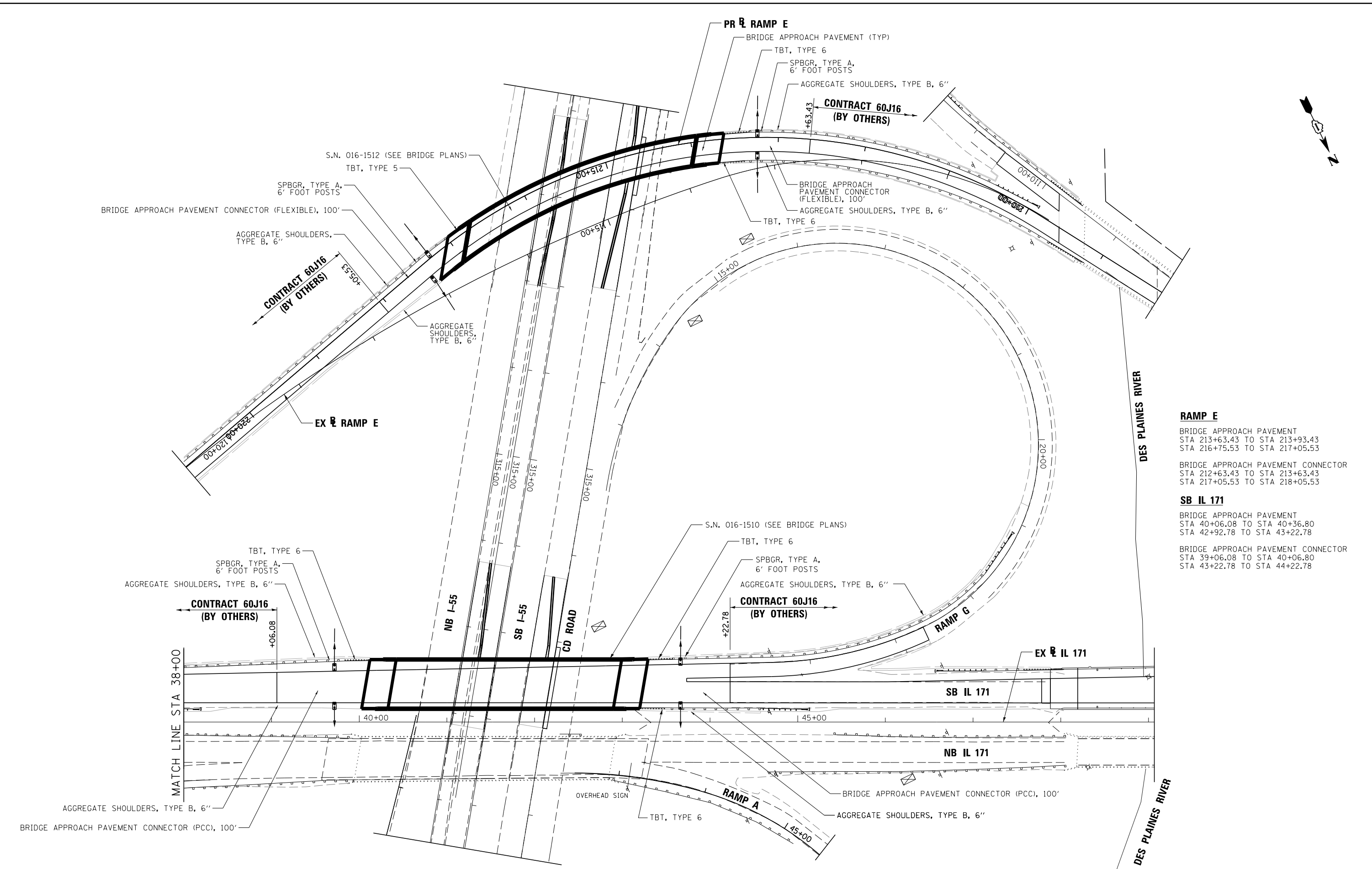


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
I-55**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 & 611HB-B	COOK	177	21
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				



RAMP E
BRIDGE APPROACH PAVEMENT STA 213+63.43 TO STA 213+93.43 STA 216+75.53 TO STA 217+05.53
BRIDGE APPROACH PAVEMENT CONNECTOR STA 212+63.43 TO STA 213+63.43 STA 217+05.53 TO STA 218+05.53
SB IL 171
BRIDGE APPROACH PAVEMENT STA 40+06.08 TO STA 40+36.80 STA 42+92.78 TO STA 43+22.78
BRIDGE APPROACH PAVEMENT CONNECTOR STA 39+06.08 TO STA 40+06.80 STA 43+22.78 TO STA 44+22.78

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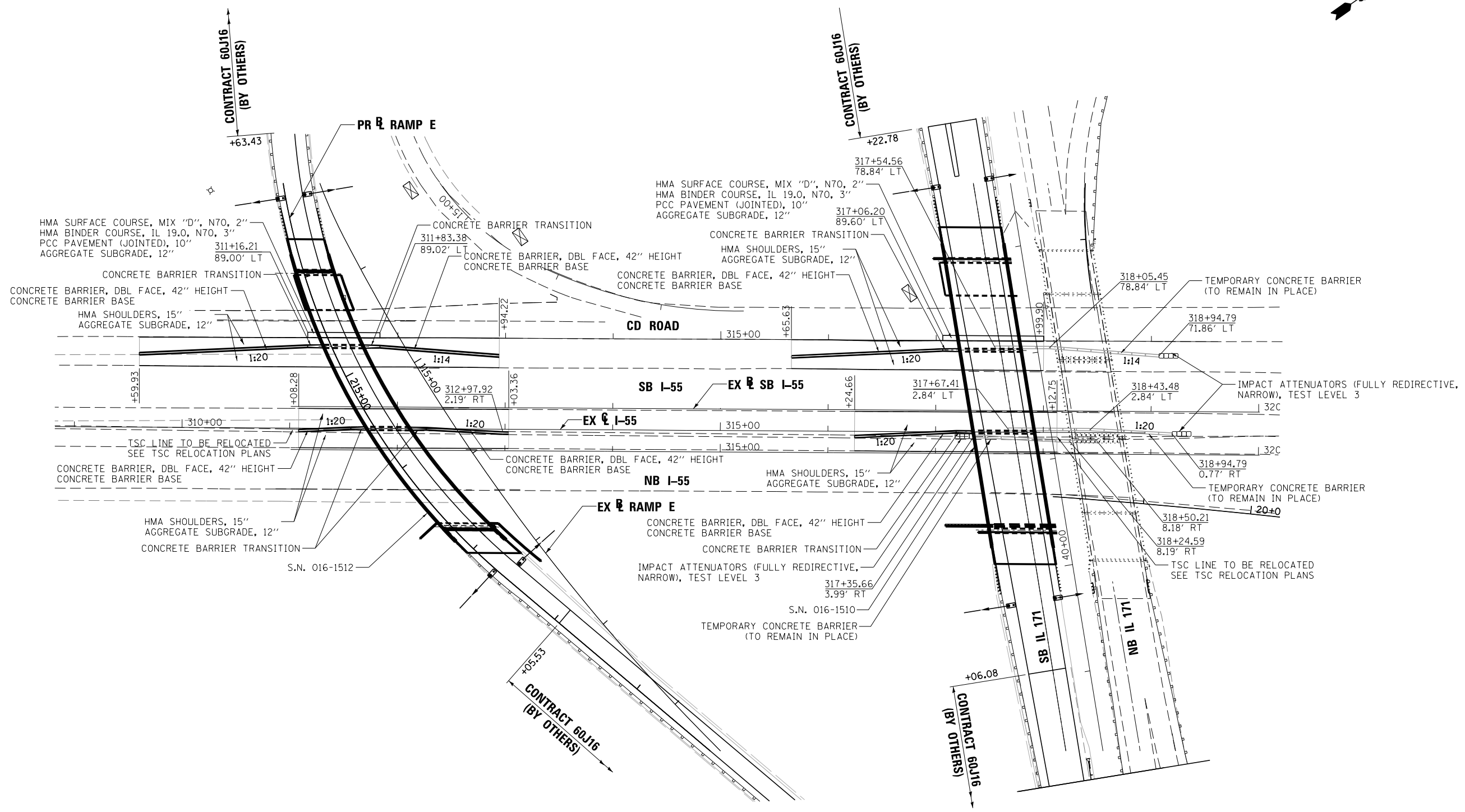
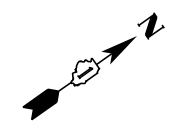


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
SB IL 171 & RAMP E

SCALE: 1"=50' SHEET 1 OF 5 SHEETS STA. TO STA.

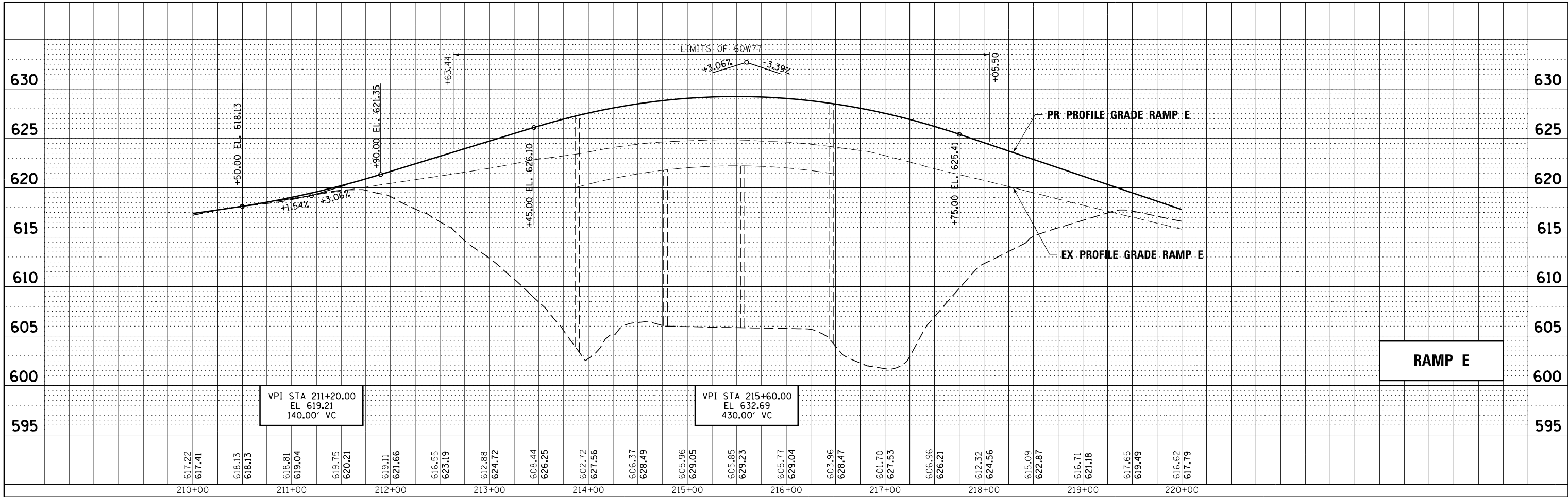
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	22
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				



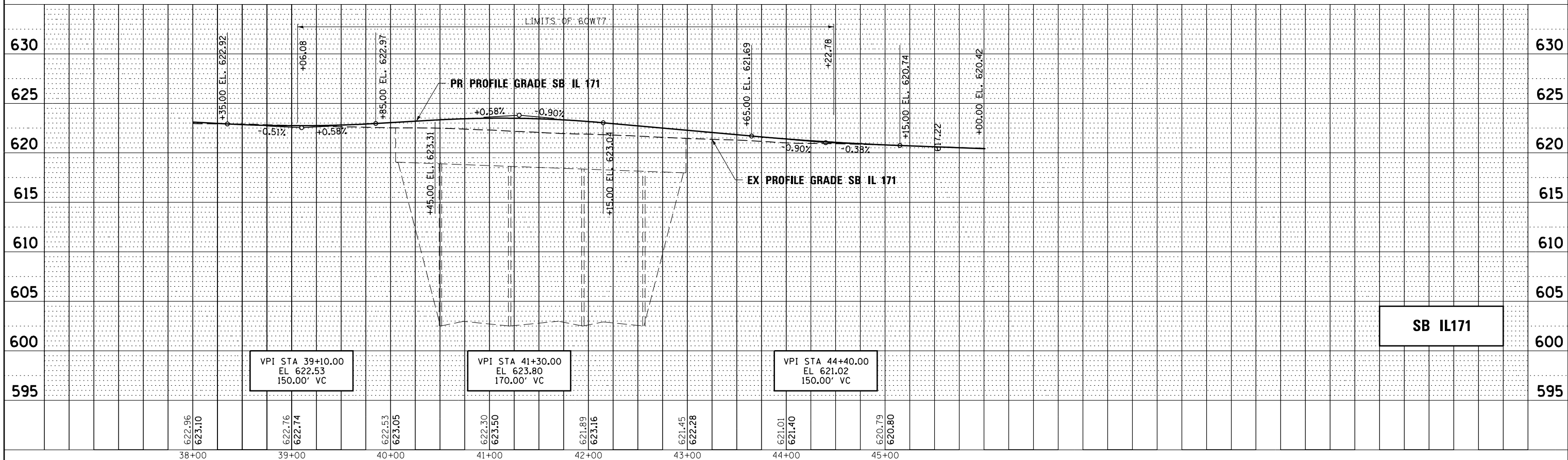
NOTE:
ALL STATIONS ARE TAKEN OFF THE EX Q I-55

FILE NAME = ...\\D160W77-shr-pln-155.dgn	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN I-55			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = toddblank	DRAWN - TMB	REVISED -								373	(0707-608 & 611)HB-B	COOK	177	23
PLOT DATE = 8/7/2014	CHECKED - JMM	REVISED -		SCALE: 1"=50'					SHEET 2 OF 5 SHEETS		CONTRACT NO. 60W77			
DATE - 6/23/2014	REVISOR -	REVISED -		STA. TO STA.					ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	CHECKED	
	FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	
	NOTATIONS CHECKED	



FILE NAME =	DESIGNED - AAA	REVISED -
...\\D162W77-sht-prof-SB-E.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -



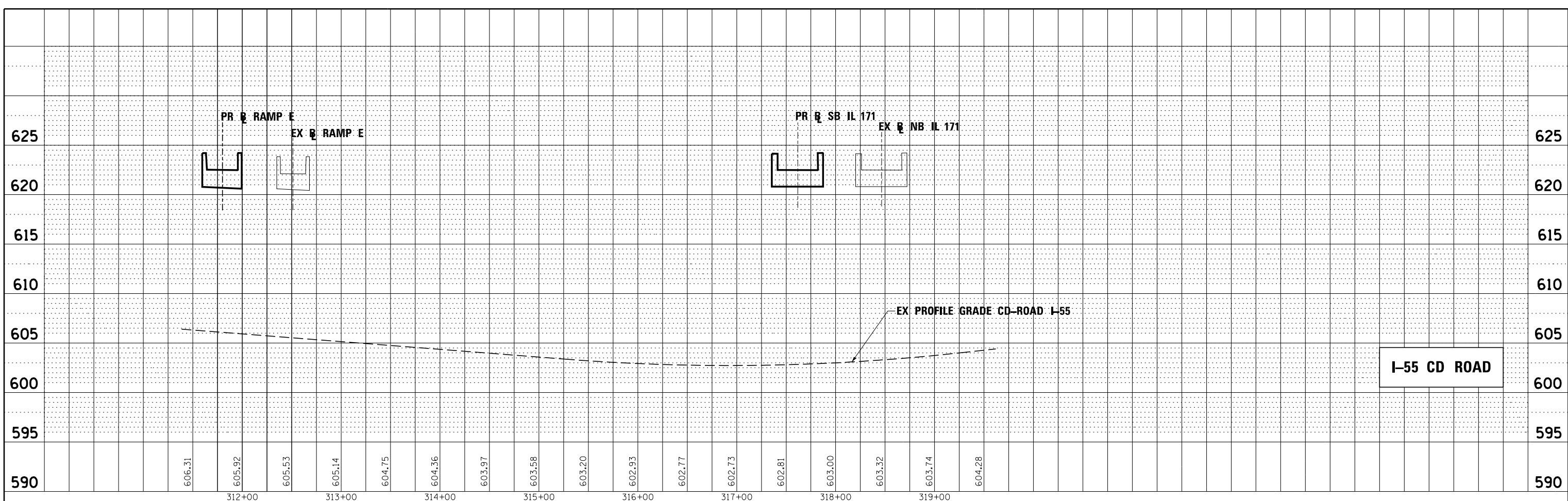
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE
SB IL 171 & RAMP E

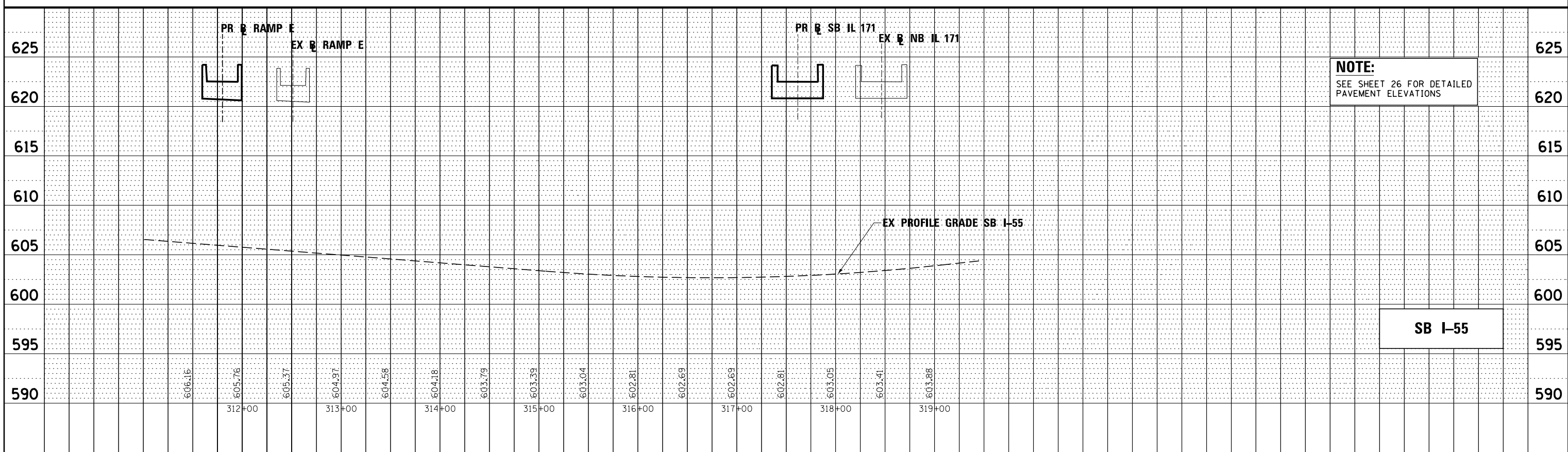
SCALE: SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	24
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO.	
	CHECKED	
	FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	
	NOTATIS	
	CHKD	
	NO.	



NOTE:
SEE SHEET 26 FOR DETAILED
PAVEMENT ELEVATIONS

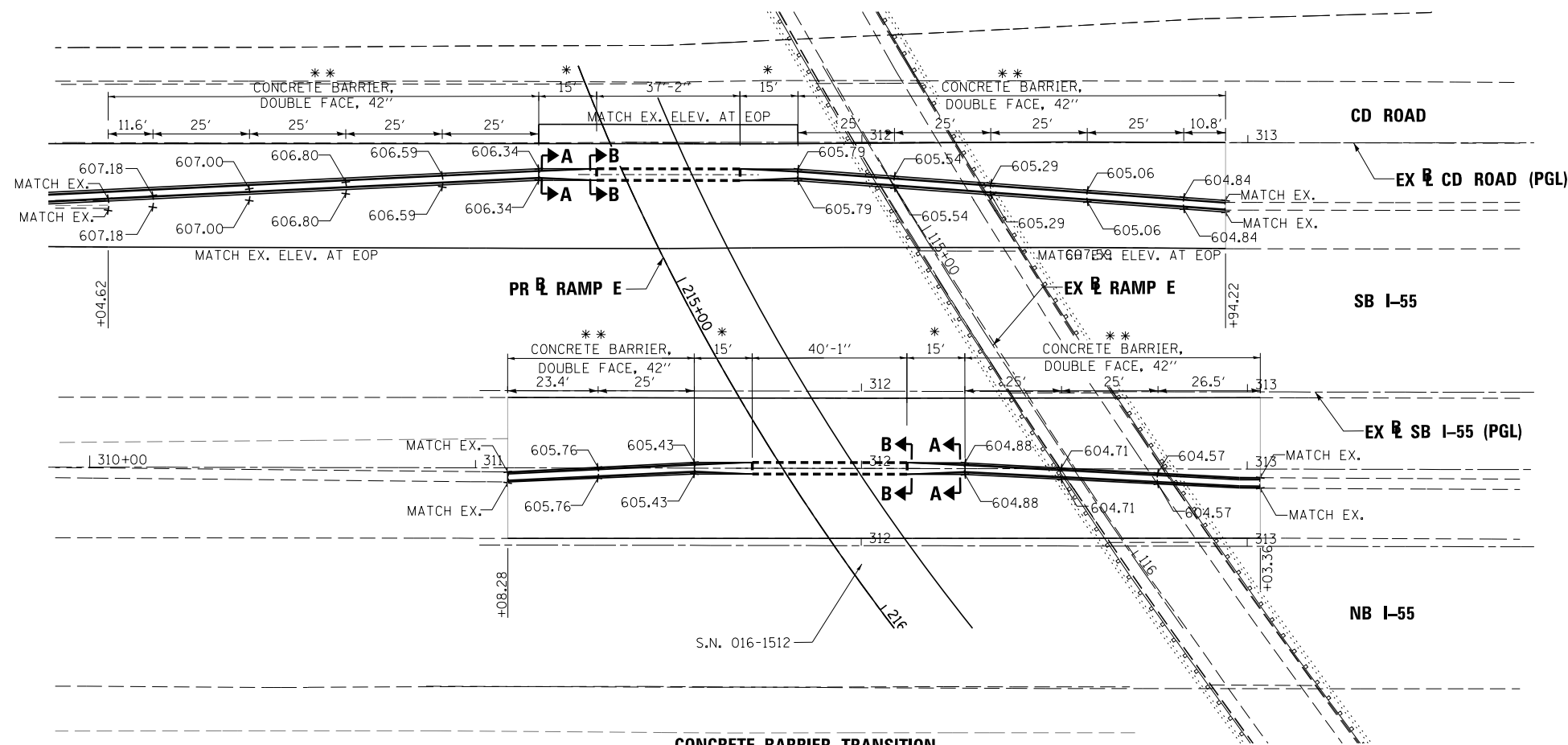
FILE NAME -	DESIGNED - AAA	REVISED -
...\\D162W77-shr-prof-i55.dgn	DRAWN - TMB	REVISED -
USER NAME = agibson	CHECKED - JMM	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -



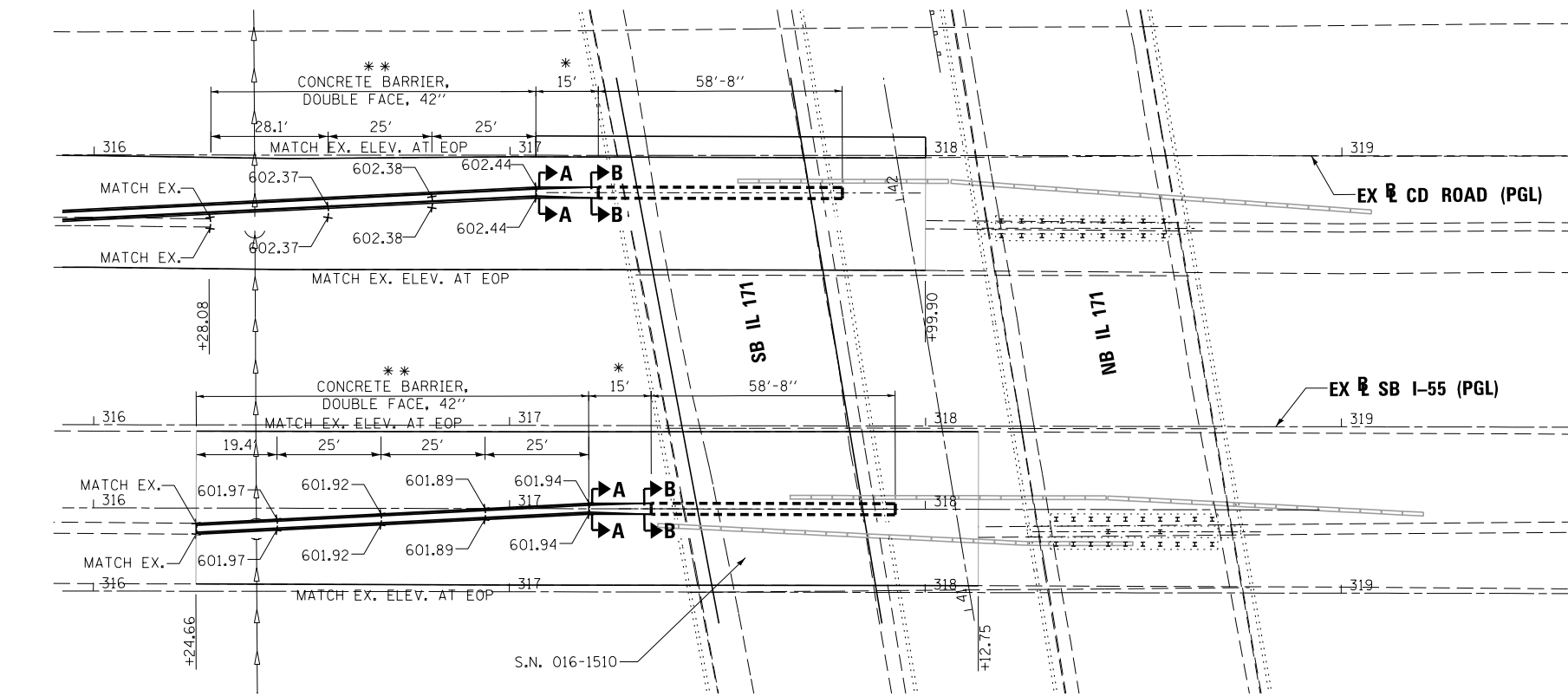
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE	
SB I-55 AND CD ROAD	
SCALE:	SHEET NO. 4 OF 5 SHEETS STA. TO STA.

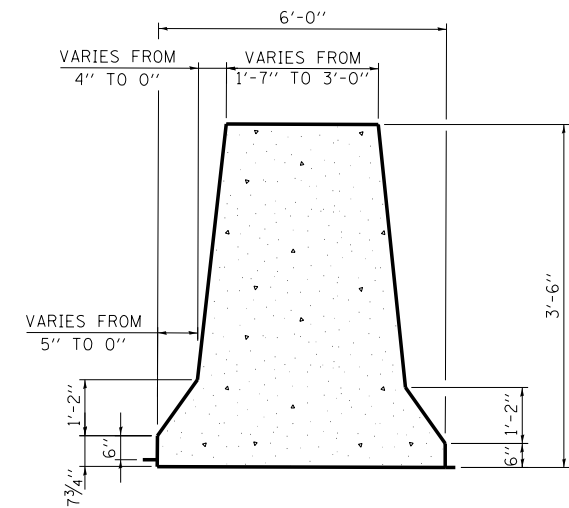
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	25
				CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT				



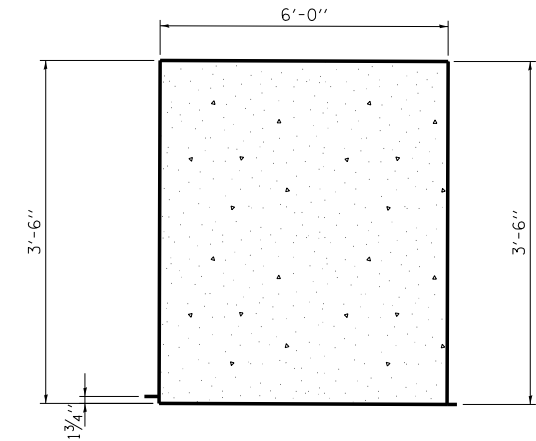
**CONCRETE BARRIER TRANSITION
AND DETAILED SHOULDER ELEVATIONS**



**CONCRETE BARRIER TRANSITION
AND DETAILED SHOULDER ELEVATIONS**



SECTION A-A
CONCRETE BARRIER TRANSITION



SECTION B-B
CONCRETE BARRIER TRANSITION

SCHEDULE:

CONCRETE BARRIER TRANSITION STATION RANGES:

STRUCTURE	SIDE	FROM STA	TO STA
SN 016-1510	N	317+06.23	317+21.23
SN 016-1510	S	317+19.08	317+34.08
SN 016-1512	N	311+16.24	311+31.24
SN 016-1512	N	311+68.41	311+83.41
SN 016-1512	S	311+56.71	311+71.71
SN 016-1512	S	312+11.82	312+26.82

ALL STATIONS ARE BASED ON I-55 CL.

NOTES:

1. PREFORMED JOINT FILLER (1") SHALL BE PLACED AT BOTH ENDS OF EACH CONCRETE BARRIER TRANSITION SEGMENTS. COST OF PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER TRANSITION.
 2. FOR ANCHORING METHODS SEE STANDARD 637006-03.
 3. SEE SHEET 25 FOR PROFILES.
- * CONCRETE BARRIER TRANSITION
- ** WIDTH OF THE EXISTING PIERS AT I-55 VARY ALONG THE HEIGHT OF THE PIERS. CONCRETE BARRIER TRANSITION SEGMENTS SHALL TRANSITION TO MATCH EXISTING PIER SECTIONS. CONTRACTOR SHALL MATCH PIER IN THE FIELD.

FILE NAME =	DESIGNED - AAA	REVISED -
...N0160W77-det:155-01.dgn	DRAWN - TMB	REVISED -
USER NAME = toddblank	CHECKED - JMM	REVISED -
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS
I-55**

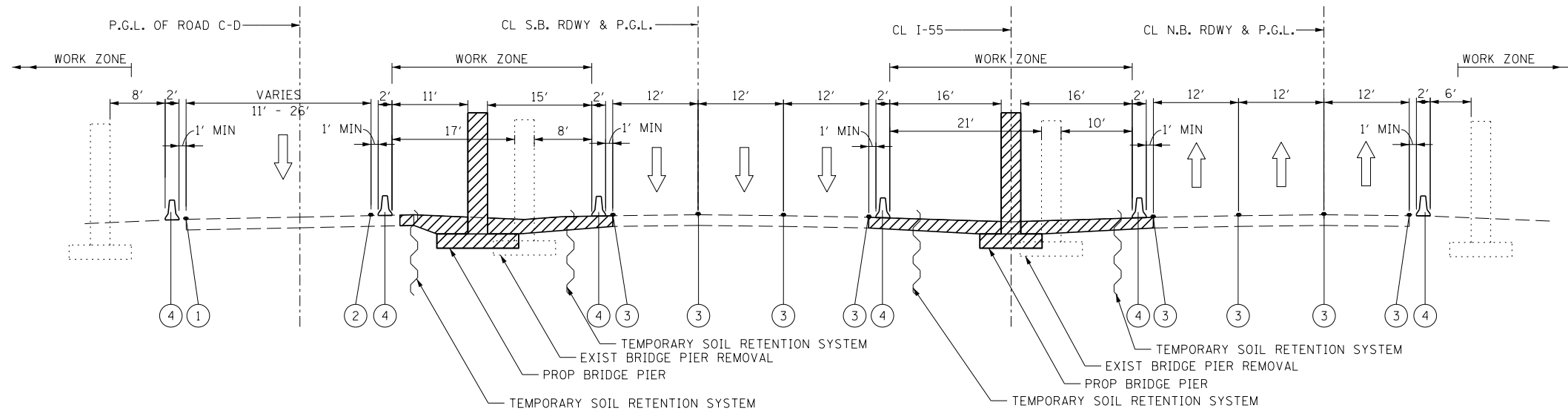
SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	10707-608 & 611HB-B	COOK	177	26
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LANE CONFIGURATION ON I-55, WITH THE SHOULDER CLOSURES AS SPECIFIED IN THE PLANS.
2. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, VERTICAL PANELS, TYPE III BARRICADES, DRUMS, OR TYPE II BARRICADES, ALL TEMPORARY CONCRETE BARRIERS AND PROTECTION NECESSARY FOR THE MAINTENANCE OF TRAFFIC, OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL CONTACT THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 AND THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 847-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
4. THE CONTRACTOR SHALL INSTALL AND MAINTAIN PROPOSED AND TEMPORARY DRAINAGE SYSTEMS, AND EROSION CONTROL THROUGHOUT STAGE CONSTRUCTION DURING THE DURATION OF THE PROJECT.
5. 4 INCH SOLID WHITE PAVEMENT MARKING LINES SHALL BE USED TO DEFINE EDGE LINE WHERE CURB AND GUTTER DOES NOT EXIST. WET REFLECTIVE TEMPORARY TAPE TYPE III SHALL BE USED FOR I-55 MOT.
6. 12 INCH SOLID YELLOW PAVEMENT MARKING LINES ARE TO BE USED FOR TEMPORARY MEDIAN DIAGONAL LINES AT LOCATIONS AS SHOWN ON THE PLANS.
7. ALL TYPE II BARRICADES, DRUMS, AND VERTICAL PANELS SHALL BE EQUIPPED WITH BI-DIRECTIONAL STEADY BURNING LIGHTS.
8. ALL TYPE II BARRICADES, VERTICAL PANELS, AND DRUMS SHALL BE SPACED AT 50 FEET CENTER TO CENTER THROUGHOUT THE WORK ZONE, EXCEPT IN TAPER AREAS, GORE AREAS, AND ALONG CORNER RADII, WHERE THEY SHALL BE SPACED AT 25 FEET CENTER TO CENTER.
9. TEMPORARY CONCRETE BARRIERS SHALL BE EQUIPPED WITH TYPE "C" REFLECTORS AT 20' CENTERS.
10. ALL CONSTRUCTION WARNING SIGNS SHALL BE BLACK LEGEND ON ORANGE BACKGROUND.
11. ALL CONSTRUCTION WARNING SIGN DIMENSIONS SHALL BE 48" X 48".
12. ALL "ROAD CONSTRUCTION AHEAD" WARNING SIGNS (W20-1103(O)-48) SHALL BE EQUIPPED WITH HIGH INTENSITY FLASHING LIGHTS.
13. THE CONTRACTOR SHALL INSTALL AND COVER ALL TEMPORARY SIGNING BEFORE EXISTING SIGNS ARE REMOVED.
14. THE CONTRACTOR SHALL INSTALL AND COVER ALL PERMANENT SIGNING BEFORE TEMPORARY SIGNS ARE REMOVED.
15. EXISTING TRAFFIC SIGNS IN CONFLICT WITH STAGING SHALL BE REMOVED, RELOCATED OR COVERED AS SHOWN ON THE PLANS.
16. DIRECTION INDICATOR BARRICADES SHALL BE USED AT TAPER LOCATIONS AS DIRECTED BY THE ENGINEER.
17. EPOXY PAVEMENT MARKINGS SHALL BE USED ON IL 171 AT THE END OF THIS CONTRACT FOR MOT OF CONTRACTS (60W77 & 60W78).
18. ANY ADDITIONAL TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, DRUMS, VERTICAL PANELS, SIGNS, ETC. REQUIRED FOR THE MAINTENANCE OF TRAFFIC AT THE SIDE ROADS AND ENTRANCES SHALL BE INCLUDED IN THE LUMP SUM CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION, EXPRESSWAY.
19. TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER REMOVAL IS INCLUDED IN THE CONTRACT UNIT PRICE OF "TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER".
20. THE CONTRACTOR SHALL COORDINATE ALL THE WORK IN THIS CONTRACT WITH CONTRACT 60J16, AND COORDINATE THE TIMING AND SIGNING OF ALL THE RAMP CLOSURES AND DETOURS THAT ARE PART OF CONTRACT 60J16.
21. ALL THE DETOUR SIGNAGE INCLUDING THE OVERHEAD SIGN MODIFICATIONS ARE PAID FOR IN CONTRACT 60J16, UNLESS OTHERWISE SPECIFIED.
22. TEMPORARY CONCRETE BARRIER IS REQUIRED TO BE PINNED IF THE EDGE OF THE TRAVELLED WAY IS WITHIN 3'-6" OF THE BARRIER. THE COST OF PINNING THE TEMPORARY BARRIER IS INCLUDED IN THE CONTRACT UNIT PRICE OF TEMPORARY CONCRETE BARRIER.
23. THE CONTRACTOR SHALL CONTACT PACE 2 WEEKS PRIOR TO I-55 MEDIAN SHOULDER CLOSURES.

FILE NAME =	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGING NOTES AND SEQUENCING	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...\\DI60W77-sh-t-stagingnotes.dgn	DRAWN - TMB	REVISED -				373	(0707-608 & 611)HB-B	COOK	177	27	
USER NAME = toddblank	CHECKED - JMM	REVISED -				CONTRACT NO. 60W77					
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -				ILLINOIS FED. AID PROJECT					
						SCALE: N.T.S.	SHEET 1 OF 8 SHEETS	STA.	TO STA.		



- LEGEND**
- ① WET REFLECTIVE TEMPORARY TAPE, TYPE III - 6 INCH (WHITE)
 - ② WET REFLECTIVE TEMPORARY TAPE, TYPE III - 6 INCH (YELLOW)
 - ③ EXISTING PAVEMENT MARKING
 - ④ TEMPORARY CONCRETE BARRIER
 - ▨ WORK AREA

I-55 UNDER STRUCTURES
016-1510 & 016-1512
 FROM STA 307+81.26 TO STA 322+22.51

FILE NAME =	DESIGNED - AAA	REVISED -
... \D160W77-shr-MOT-extyp-stg1-01.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -













STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

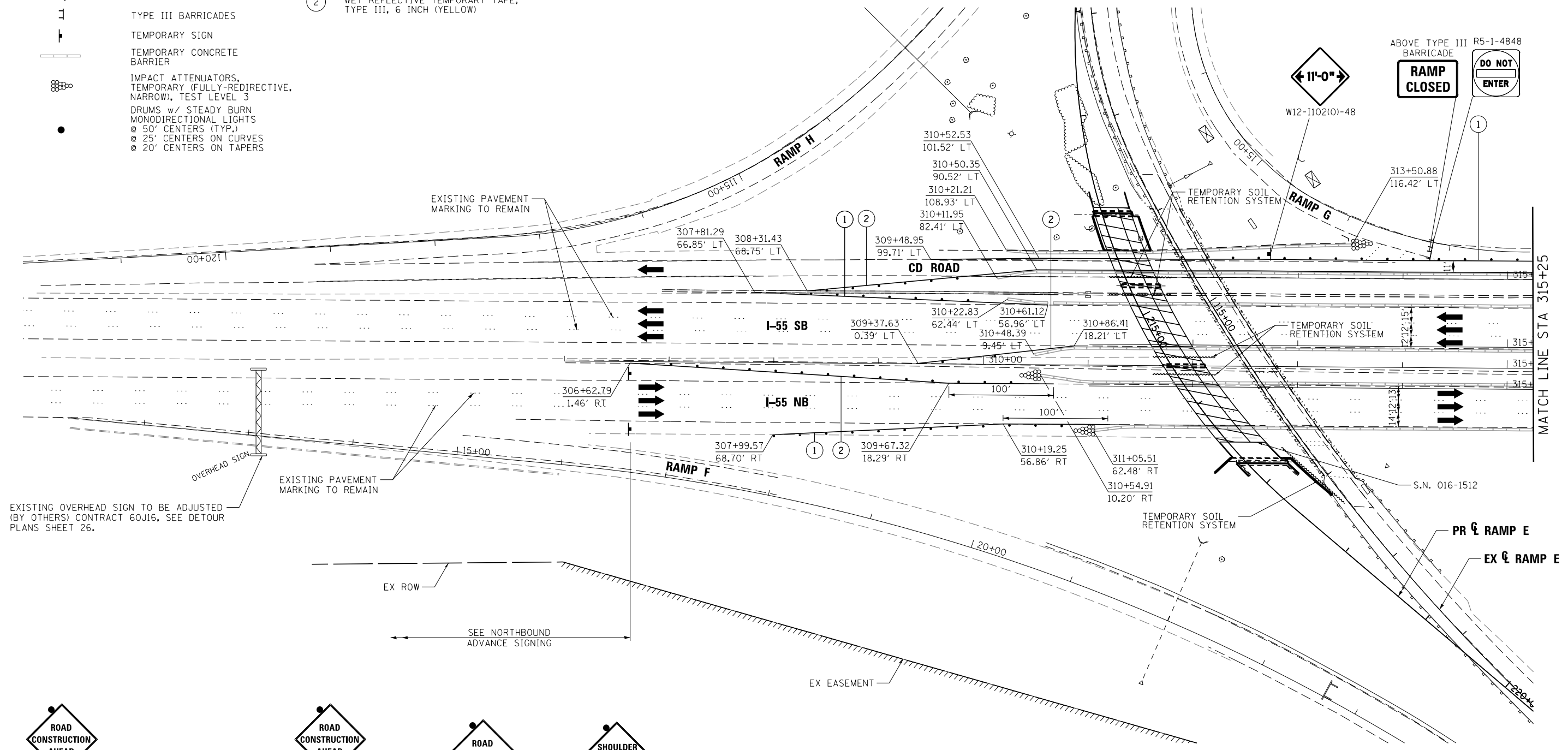
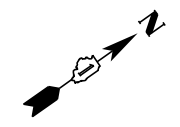
MAINTENANCE OF TRAFFIC	
I-55 TYPICAL SECTION	
SCALE: N.T.S.	SHEET 2 OF 8 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 & 611HB-B	COOK	177	28
				CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT				

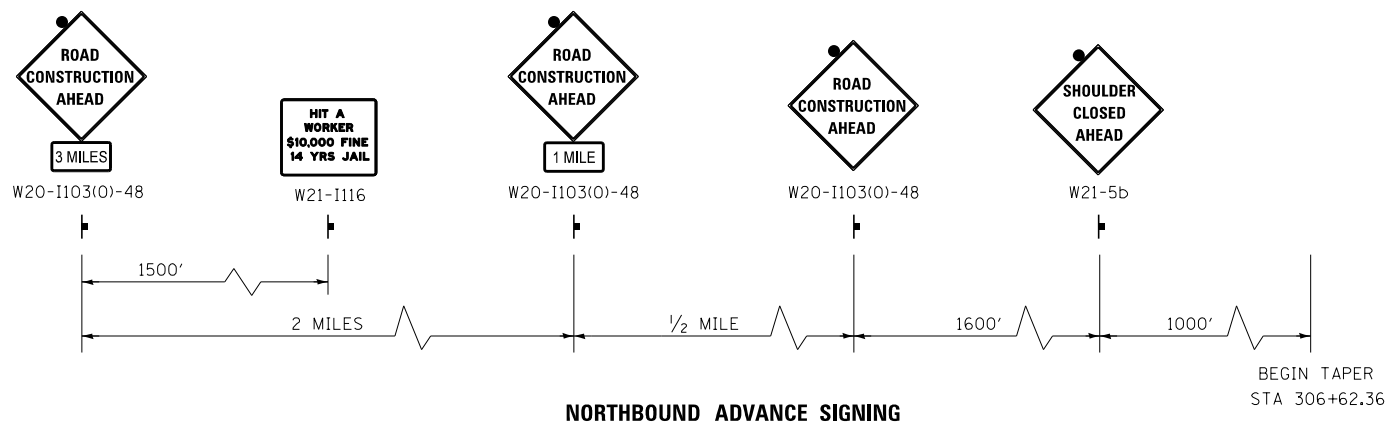
LEGEND

-  WORK AREA
-  TRAFFIC LANE
-  TYPE III BARRICADES
-  TEMPORARY SIGN
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATORS, TEMPORARY (FULLY-REDIRECTIVE, NARROW), TEST LEVEL 3
-  DRUMS w/ STEADY BURN MONODIRECTIONAL LIGHTS
-  @ 50' CENTERS (TYP.)
-  @ 25' CENTERS ON CURVES
-  @ 20' CENTERS ON TAPERS


- ① WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH (WHITE)
- ② WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH (YELLOW)



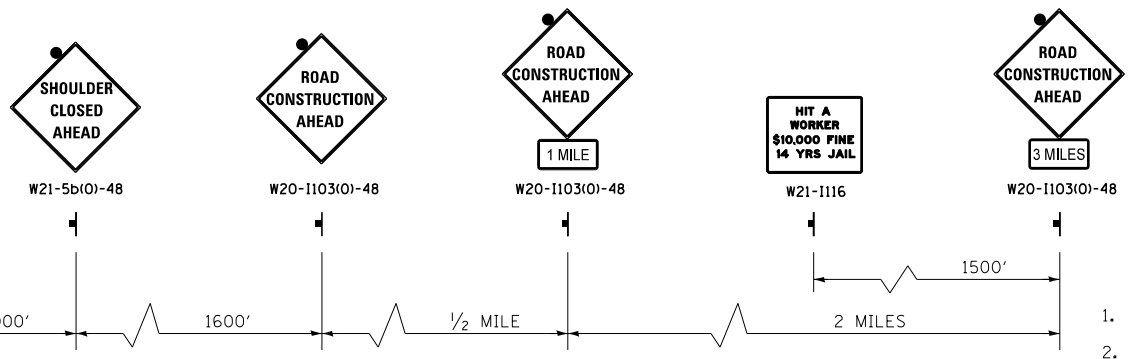
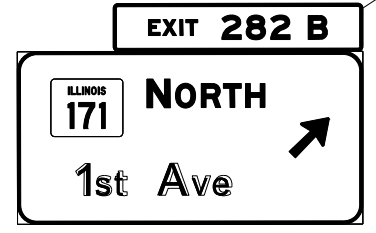
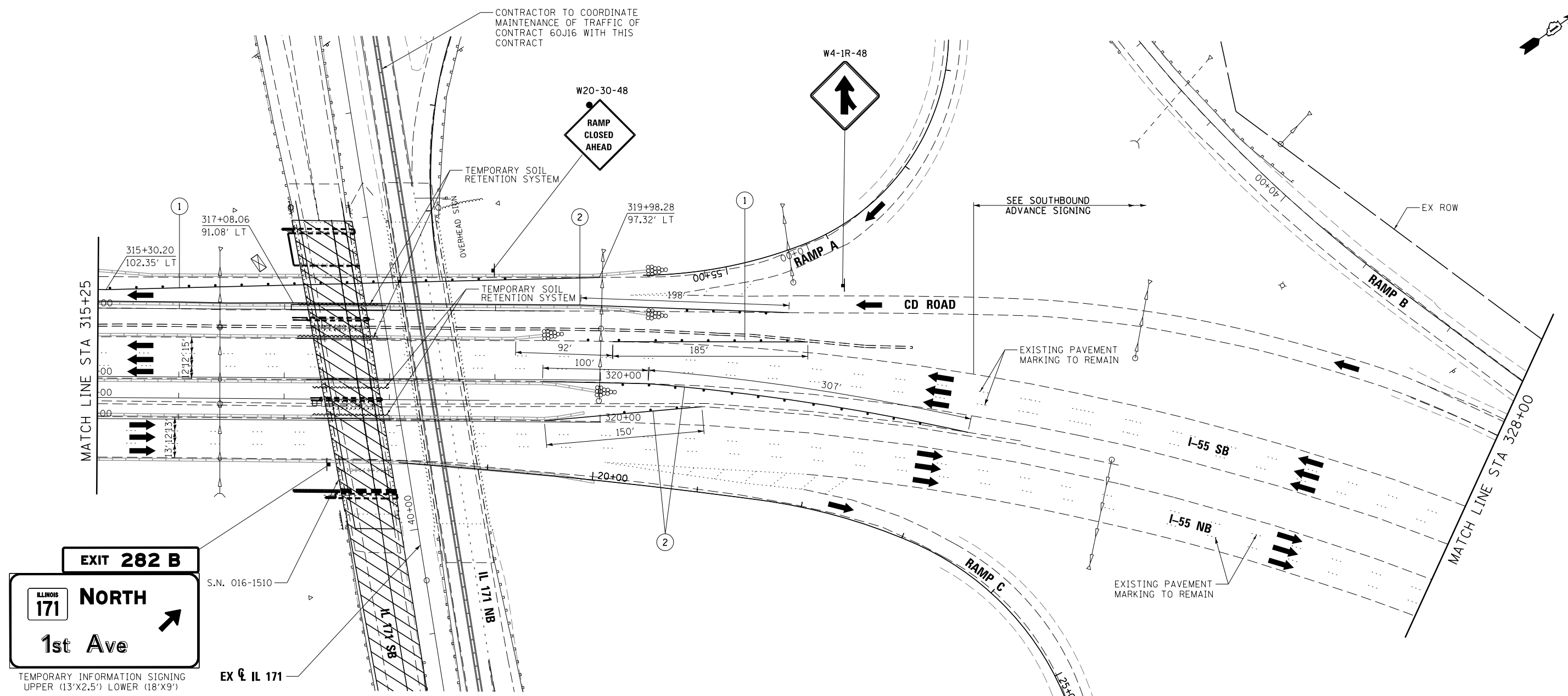
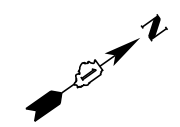
EXISTING OVERHEAD SIGN TO BE ADJUSTED (BY OTHERS) CONTRACT 60J16, SEE DETOUR PLANS SHEET 26.



- NOTES:**
1. ALL SIGNS TO BE INSTALLED ON BOTH RIGHT AND LEFT SHOULDERS.
 2. ALL SIGNAGE TO BE CO-ORDINATED WITH CONTRACT 60J16.
 3. ALL THE TRAFFIC THAT ACCESSES THE CD-ROAD DURING CONSTRUCTION IS WIDTH RESTRICTED, BASED ON THE WIDTH RESTRICTION ON NB IL-171 DURING CONTRACT 60J16.

FILE NAME =	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC I-55 AND IL 171	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \MOT\DI60777-sht-155-st1-01.dgn	DRAWN - TMB	REVISED -				373	(0707-608 & 611)HB-B	COOK	177	29
USER NAME = tblank	CHECKED - JMM	REVISED -				CONTRACT NO. 60W77				
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -				ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET 3 OF 8 SHEETS STA. TO STA.



SOUTHBOUND ADVANCE SIGNING

NOTES:

1. ALL SIGNS TO BE INSTALLED ON BOTH RIGHT AND LEFT SHOULDERS.
2. ALL SIGNAGE TO BE CO-ORDINATED WITH CONTRACT 60J16.
3. ALL THE TRAFFIC THAT ACCESSES THE CD-ROAD DURING CONSTRUCTION IS WIDTH RESTRICTED, BASED ON THE WIDTH RESTRICTION ON NB IL-171 DURING CONTRACT 60J16.

LEGEND

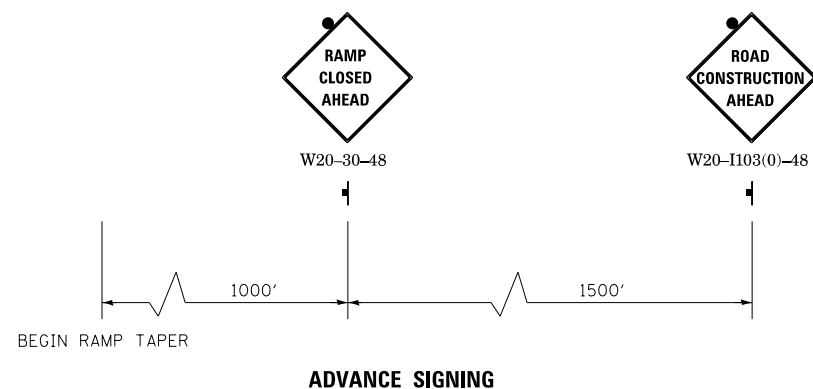
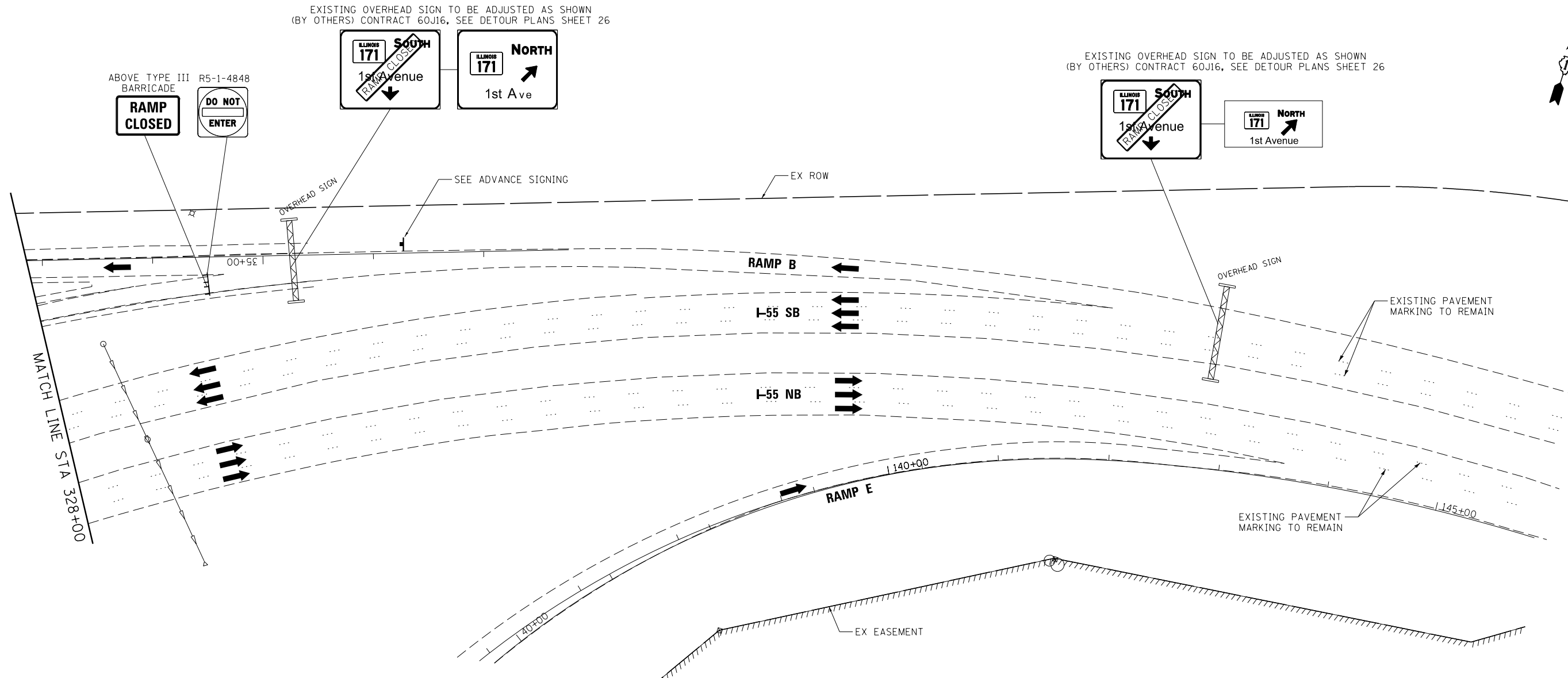
- WORK AREA
- TRAFFIC LANE
- TYPE III BARRICADES
- TEMPORARY SIGN
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (FULLY-REDIRECTIVE, NARROW), TEST LEVEL 3
- DRUMS w/ STEADY BURN MONODIRECTIONAL LIGHTS @ 50' CENTERS (TYP.) @ 25' CENTERS ON CURVES @ 20' CENTERS ON TAPERS

- ① WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH (WHITE)
- ② WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH (YELLOW)

FILE NAME = ... \MOT\DI60W77-sht-155-stl-02.dgn	DESIGNED - AAA	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC I-55 AND IL 171			F.A.P. RTE. 373	SECTION 0707-608 & 611HB-B	COUNTY COOK	TOTAL SHEETS 177	SHEET NO. 30		
USER NAME = tblank	CHECKED - JMM	REVISED -						CONTRACT NO. 60W77						
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -			SCALE: 1"=50'			SHEET 4 OF 8 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

EXISTING OVERHEAD SIGN TO BE ADJUSTED AS SHOWN
(BY OTHERS) CONTRACT 60J16, SEE DETOUR PLANS SHEET 26

EXISTING OVERHEAD SIGN TO BE ADJUSTED AS SHOWN
(BY OTHERS) CONTRACT 60J16, SEE DETOUR PLANS SHEET 26



NOTES:

1. ALL SIGNS TO BE INSTALLED ON BOTH RIGHT AND LEFT SHOULDERS.
2. ALL SIGNAGE TO BE CO-ORDINATED WITH CONTRACT 60J16.
3. ALL OTHER EXISTING OVERHEAD SIGNS TO THE EAST TO BE ADJUSTED BY OTHERS) CONTRACT 60J16, SEE DETOUR PLANS SHEET 26.

LEGEND

- WORK AREA
 - TRAFFIC LANE
 - TYPE III BARRICADES
 - TEMPORARY SIGN
 - TEMPORARY CONCRETE BARRIER
 - IMPACT ATTENUATORS, TEMPORARY (FULLY-REDIRECTIVE, NARROW), TEST LEVEL 3
 - DRUMS w/ STEADY BURN MONODIRECTIONAL LIGHTS
 - o 50' CENTERS (TYP.)
 - o 25' CENTERS ON CURVES
 - o 20' CENTERS ON TAPERS
- ① WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH (WHITE)
 ② WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH (YELLOW)

FILE NAME =	DESIGNED - AAA	REVISED -
... \MOT\DI60W77-sht-155-st1-03.dgn	DRAWN - TMB	REVISED -
USER NAME = agibson	CHECKED - JMM	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

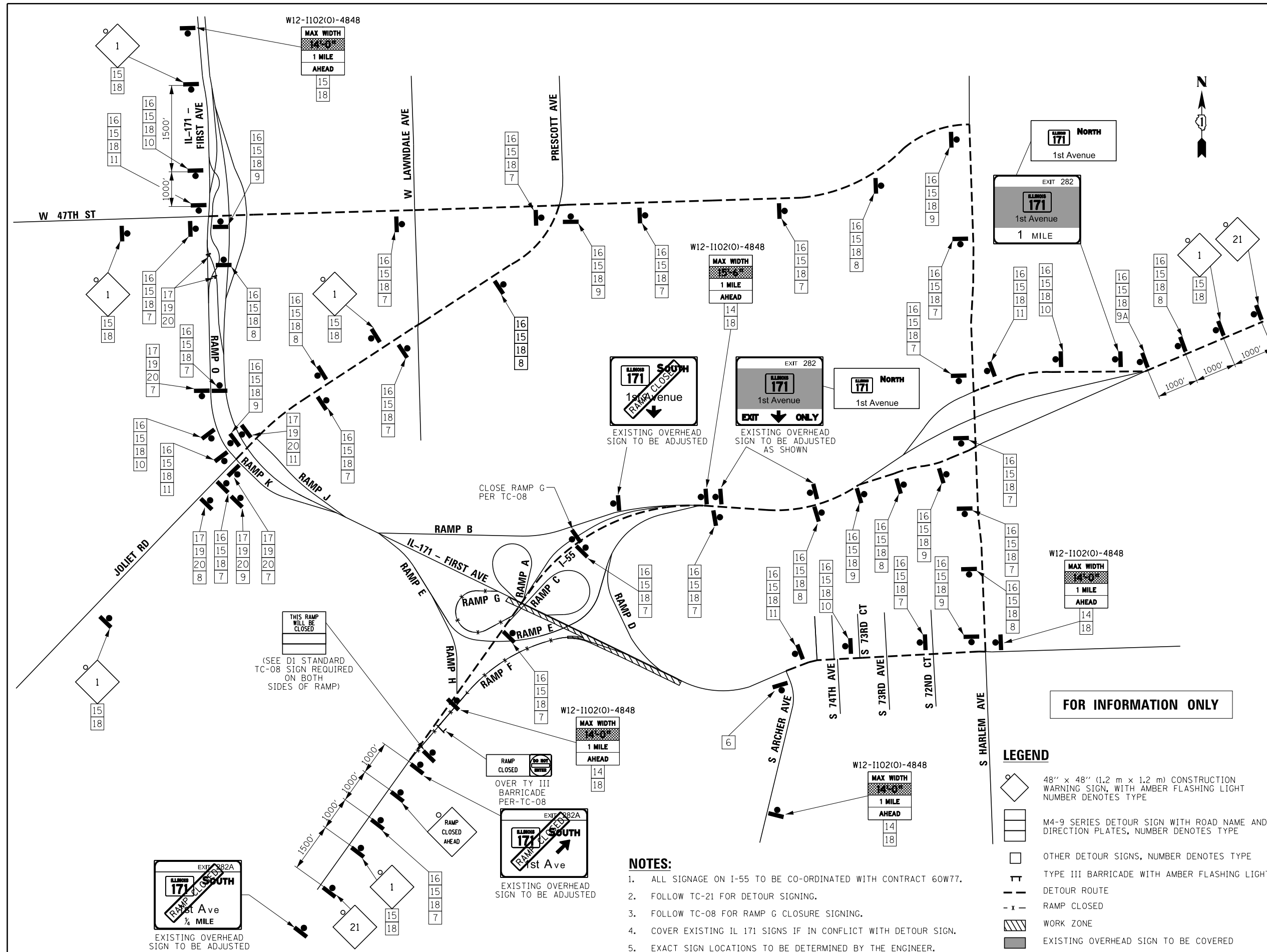
MAINTENANCE OF TRAFFIC
I-55 AND IL 171

SCALE: 1"=50' SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	31
				CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT				

SCHEDULE OF SIGNS

SIGN NUMBER	SIGN TYPE	DESCRIPTION
1	DETOUR AHEAD	W20-2 (0) 48
2	EXIT CLOSED	E5-2a-4836
3	ROAD CLOSED	R11-4 6030
4	DETOUR	M4-10 (0) 4818
5	DETOUR	M4-10 (0) 4818
6	END DETOUR	M4-8a (0) 2418
7	UP	M6-3 2115
8	RIGHT	M5-1R 2115
9	RIGHT	M6-1R 2115
9A	RIGHT	M6-2R 2115
10	LEFT	M5-1L 2115
11	LEFT	M6-1L 2115
12	NO LEFT TURN	R3-2 30"x30"
13	NO RIGHT TURN	R3-2 30"x30"
14	NORTH	M3-2 (0) 2412
15	SOUTH	M3-4 (0) 2412
16	DETOUR	M1-7 2412
17	TO	R2-1-1212
18	ILLINOIS 171	M1-5-4536
19	SHIELD 55	M1-1-3636
20	ONLY	M4-5-3618
21	ROAD CONSTRUCTION AHEAD	W20-1103-48



- NOTES:**
1. ALL SIGNAGE ON I-55 TO BE CO-ORDINATED WITH CONTRACT 60W77.
 2. FOLLOW TC-21 FOR DETOUR SIGNING.
 3. FOLLOW TC-08 FOR RAMP G CLOSURE SIGNING.
 4. COVER EXISTING IL 171 SIGNS IF IN CONFLICT WITH DETOUR SIGN.
 5. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

FILE NAME =	DESIGNED - AAA	REVISED -
... \MOT\DI60W77-Detour-1a.dgn	DRAWN - TMB	REVISED -
USER NAME = toddblank	CHECKED - JMM	REVISED -
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

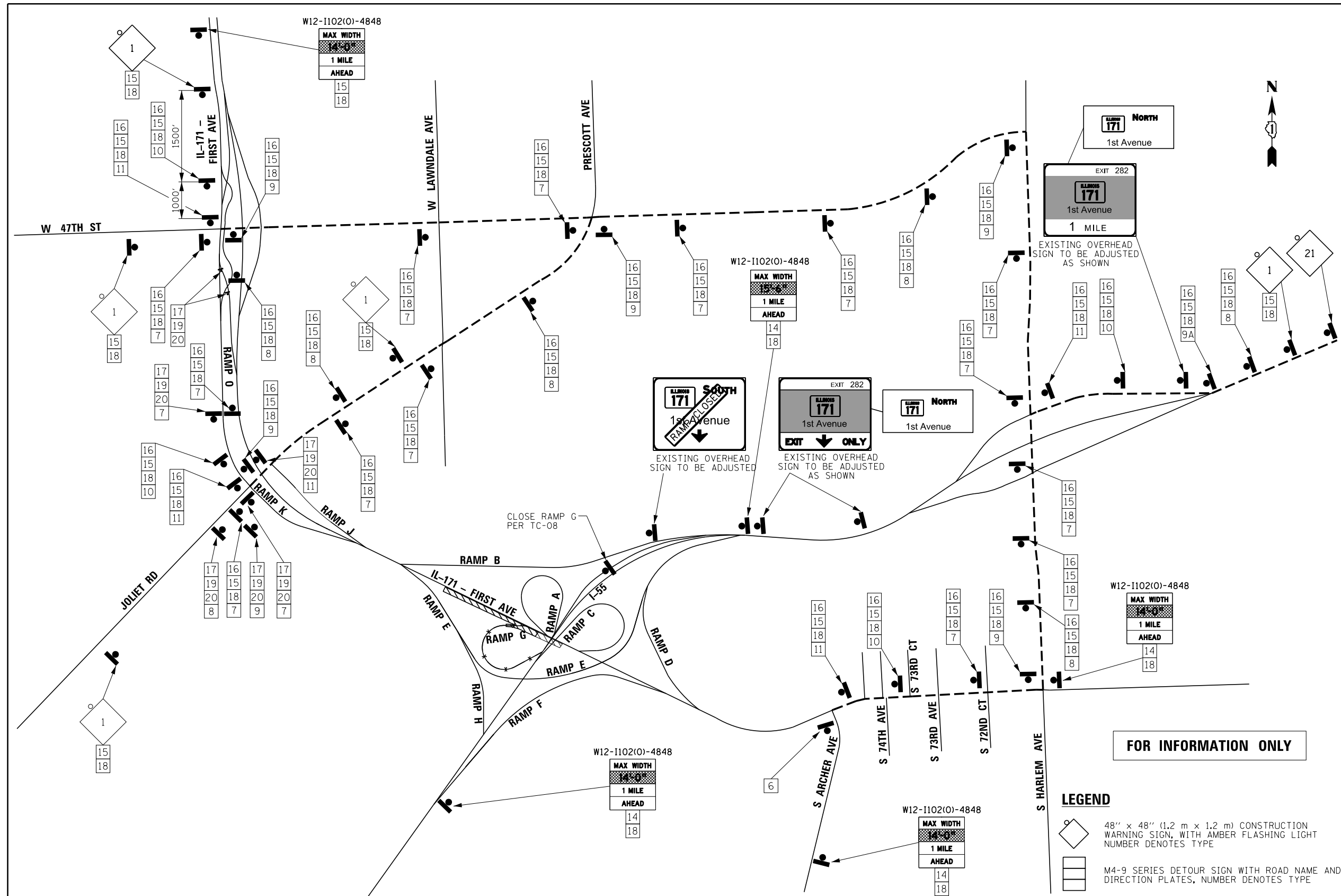
RAMP F & RAMP G DETOUR

SCALE: N.T.S. SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	32
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF SIGNS

SIGN NUMBER	SIGN TYPE
1	DETOUR AHEAD W20-2 (0) 48
2	EXIT CLOSED E5-2a-4836
3	ROAD CLOSED R11-4 6030
4	DETOUR M4-10 (0) 4818
5	DETOUR M4-10 (0) 4818
6	END DETOUR M4-8a (0) 2418
7	↑ M6-3 2115
8	↗ M5-1R 2115
9	→ M6-1R 2115
9A	↘ M6-2R 2115
10	↖ M5-1L 2115
11	← M6-1L 2115
12	⊘ R3-2 30"x30"
13	⊘ R3-2 30"x30"
14	NORTH M3-2 (0) 2412
15	SOUTH M3-4 (0) 2412
16	DETOUR M1-7 2412
17	TO R2-1-1212
18	ILLINOIS 171 M1-5-4536
19	SHIELD 55 M1-1-3636
20	ONLY M4-5-3618
21	ROAD CONSTRUCTION AHEAD W20-1103-48



- NOTES:**
1. ALL SIGNAGE ON I-55 TO BE CO-ORDINATED WITH CONTRACT 60W77
 2. FOLLOW TC-21 FOR DETOUR SIGNING
 3. FOLLOW TC-08 FOR RAMP G CLOSURE SIGNING
 4. COVER EXISTING IL 171 SIGNS IF IN CONFLICT WITH DETOUR SIGN
 5. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER

- LEGEND**
- ◇ 48" x 48" (1.2 m x 1.2 m) CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT NUMBER DENOTES TYPE
 - M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES, NUMBER DENOTES TYPE
 - OTHER DETOUR SIGNS, NUMBER DENOTES TYPE
 - ⊥ TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
 - - - DETOUR ROUTE
 - x - RAMP CLOSED
 - ▨ WORK ZONE
 - EXISTING OVERHEAD SIGN TO BE COVERED

FOR INFORMATION ONLY

FILE NAME =	DESIGNED - AAA	REVISED -
... \MOT\DI60W77-Detour-1b.dgn	DRAWN - TMB	REVISED -
USER NAME = toddblank	CHECKED - JMM	REVISED -
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

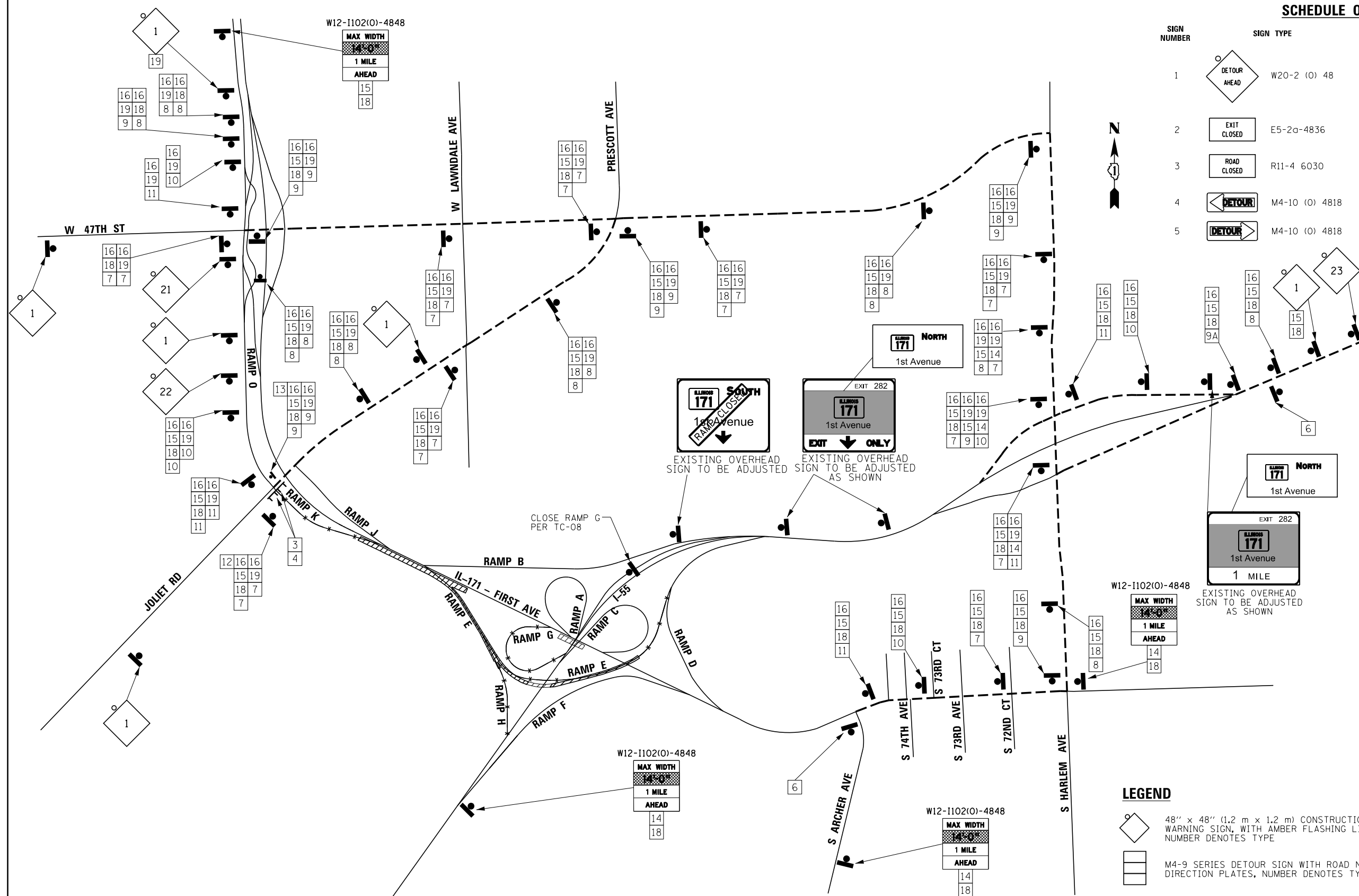
RAMP G DETOUR

SCALE: N.T.S. SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	33
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF SIGNS

SIGN NUMBER	SIGN TYPE	SIGN NUMBER	SIGN TYPE
1	DETOUR AHEAD	6	END DETOUR
2	EXIT CLOSED	7	↑
3	ROAD CLOSED	8	↗
4	← DETOUR	9	→
5	DETOUR →	9A	↖
		10	↙
		11	←
		12	⊘
		13	⊘
		14	NORTH
		15	SOUTH
		16	DETOUR
		17	TO
		18	ILLINOIS 171
		19	55
		20	ONLY
		21	ROAD CLOSED AHEAD
		22	ROAD CLOSED 500 ft
		23	ROAD CONSTRUCTION AHEAD



- NOTES:**
- ALL SIGNAGE ON I-55 TO BE CO-ORDINATED WITH CONTRACT 60W77
 - FOLLOW TC-21 FOR DETOUR SIGNING
 - FOLLOW TC-08 FOR RAMP G CLOSURE SIGNING
 - COVER EXISTING IL 171 SIGNS IF IN CONFLICT WITH DETOUR SIGN
 - EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER

LEGEND

- 48" x 48" (1.2 m x 1.2 m) CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT NUMBER DENOTES TYPE
- M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES, NUMBER DENOTES TYPE
- OTHER DETOUR SIGNS, NUMBER DENOTES TYPE
- TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
- DETOUR ROUTE
- RAMP CLOSED
- WORK ZONE
- EXISTING OVERHEAD SIGN TO BE COVERED



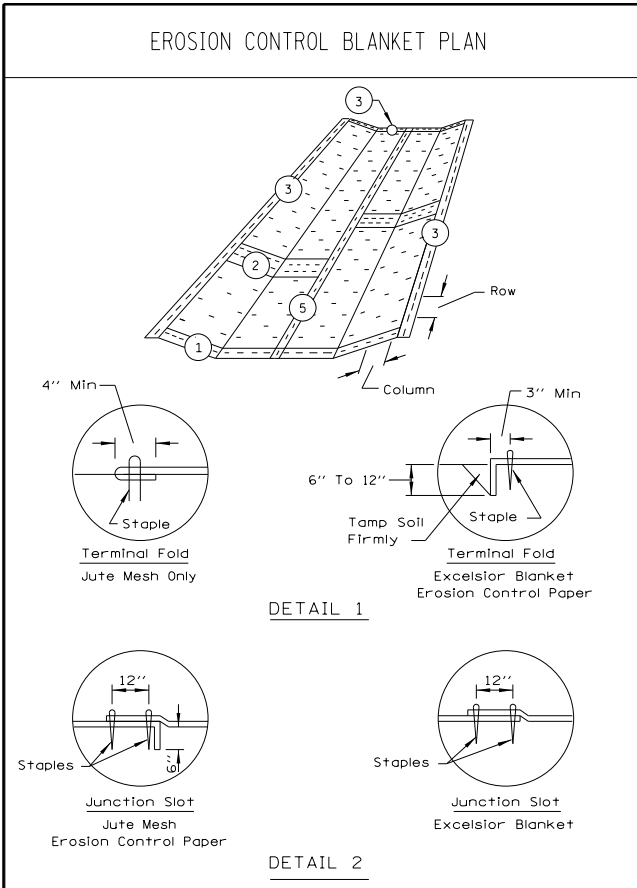
GENERAL NOTES

1. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
2. ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
3. ALL DAMAGE TO CITY, COUNTY OR STATE OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRICAL CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
4. EXCEPT WHERE MODIFIED BY THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS OR THE DETAILS IN THE PLANS, ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2014; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY 1996 FIFTH EDITION; THE "DETAILS" IN THE PLANS; AND THE "SPECIAL PROVISIONS" IN THE CONTRACT DOCUMENTS.
5. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT STANDARDS.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. COPIES OF AVAILABLE GEOTECHNICAL INFORMATION ARE AVAILABLE FROM IDOT FOR REVIEW AND INFORMATION.
7. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
8. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, MUNICIPALITIES AND COOK COUNTY.
9. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY, COUNTY OR STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
10. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
11. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. STATIONS ARE SHOWN FOR REFERENCE ONLY.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
13. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS AT THE DIRECTION OF THE ENGINEER. THIS WORK IS INCIDENTAL TO THE CONTRACT.
15. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AT THE DIRECTION OF THE PERMITTING AGENCIES. THIS WORK IS INCIDENTAL TO THE CONTRACT.
16. CLEARING SHALL BE DONE TO THE CONSTRUCTION LIMITS OF THE PROJECT. SEE SECTION 201.01(A) OF THE STANDARD SPECIFICATIONS. CLEARING WILL NOT BE MEASURED FOR PAYMENT.

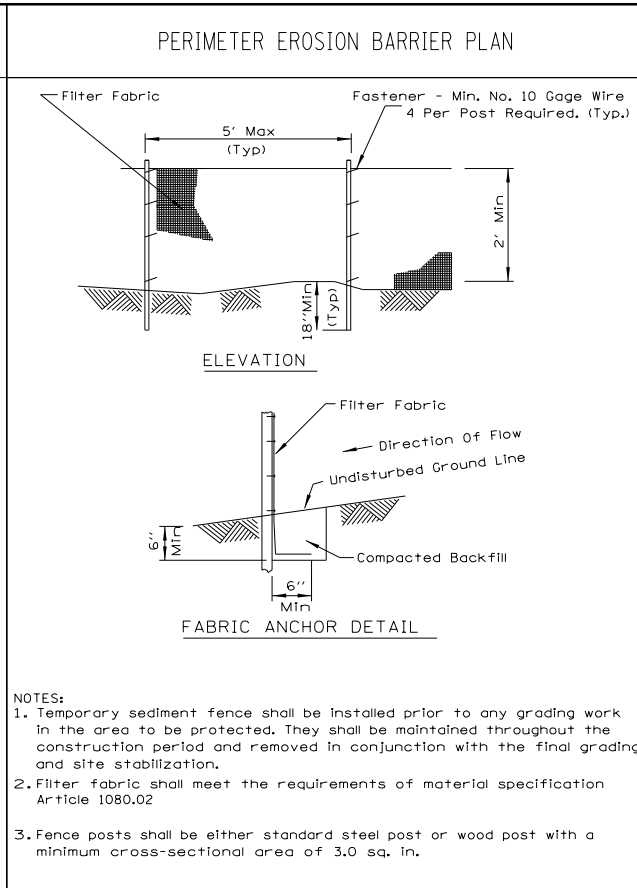
EROSION CONTROL GENERAL NOTES

1. THE CONSTRUCTION LIMITS WILL BE STAKED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. PAYMENT FOR THIS WORK WILL BE INCLUDED WITHIN THE ITEM CONSTRUCTION LAYOUT, L.S. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
2. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.
3. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE ILLINOIS URBAN MANUAL LATEST UPDATE.
4. THE WILL-SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (WSCSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
6. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS), A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR ACCEPTANCE.
7. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE REGULATORY AUTHORITIES. THESE ADDITIONAL ITEMS ARE INCIDENTAL TO THE CONTRACT.
8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURE IS PROHIBITED.
9. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.
10. PERIMETER EROSION CONTROL BARRIER SHALL BE ERECTED ADJACENT TO TEMPORARY CONSTRUCTION FENCE IN SELECTED LOCATIONS. THE RESIDENT ENGINEER SHALL HAVE FINAL DETERMINATION OF THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION CONTROL BARRIER.
11. COMPLETED SLOPES (SECTION OF ROAD EMBANKMENT) SHALL BE SEEDED AND BLANKETED AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
12. CLEANING OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT POSSIBLE.
13. REFER TO STORM WATER POLLUTION PREVENTION PLAN FOR INSPECTION AND MAINTENANCE SCHEDULES, AND SEQUENCE OF ACTIVITIES.
14. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUN OFF. LEAKY EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

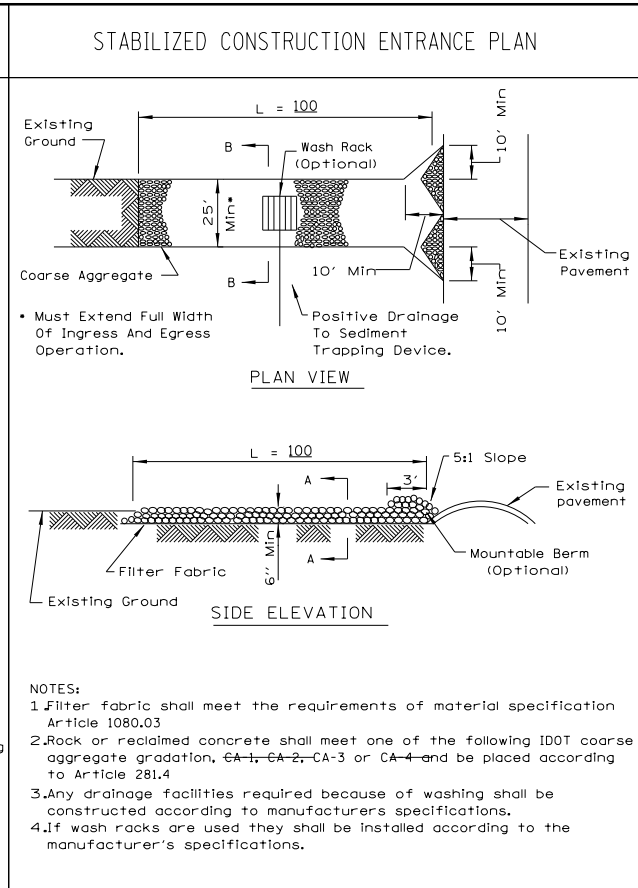
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... \D160W77-sh-t-es-GenNotes-De-t-01.dgn	DRAWN - TMB	REVISED -						373	(0707-608 & 611)HB-B	COOK	177	35
USER NAME = agibson	CHECKED - JMM	REVISED -			CONTRACT NO. 60W77							
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -			SCALE: N.T.S.	SHEET 1 OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			



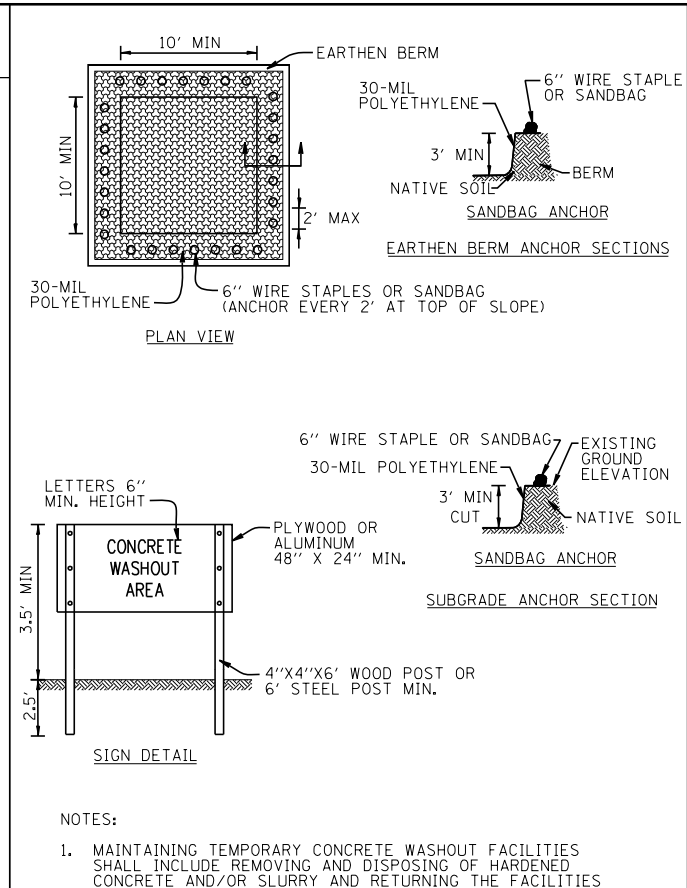
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DESIGNED MSK		SHEET 1 OF 2
CHECKED JWW		DATE 5-24-94
APPROVED		



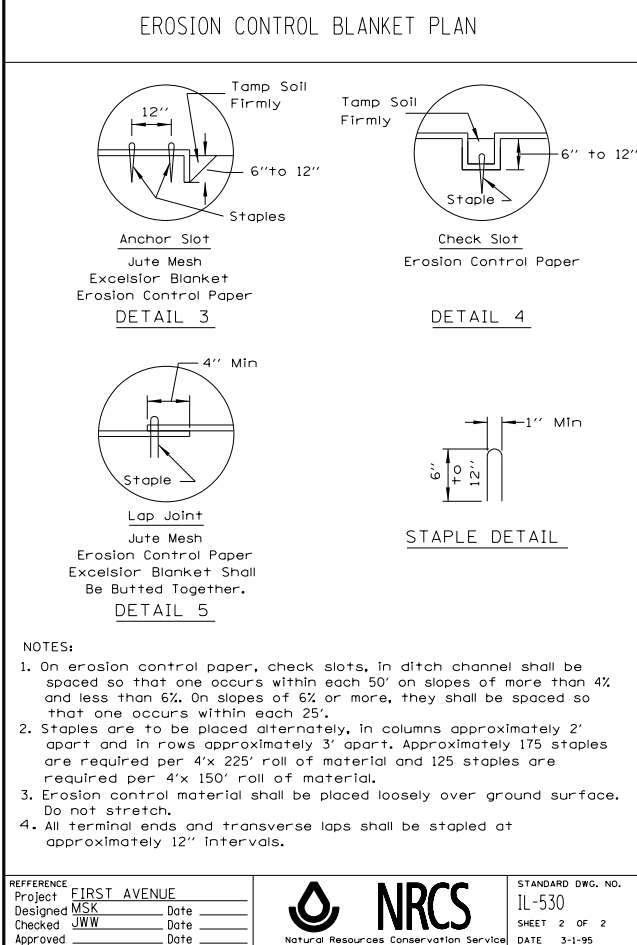
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APPROVED		



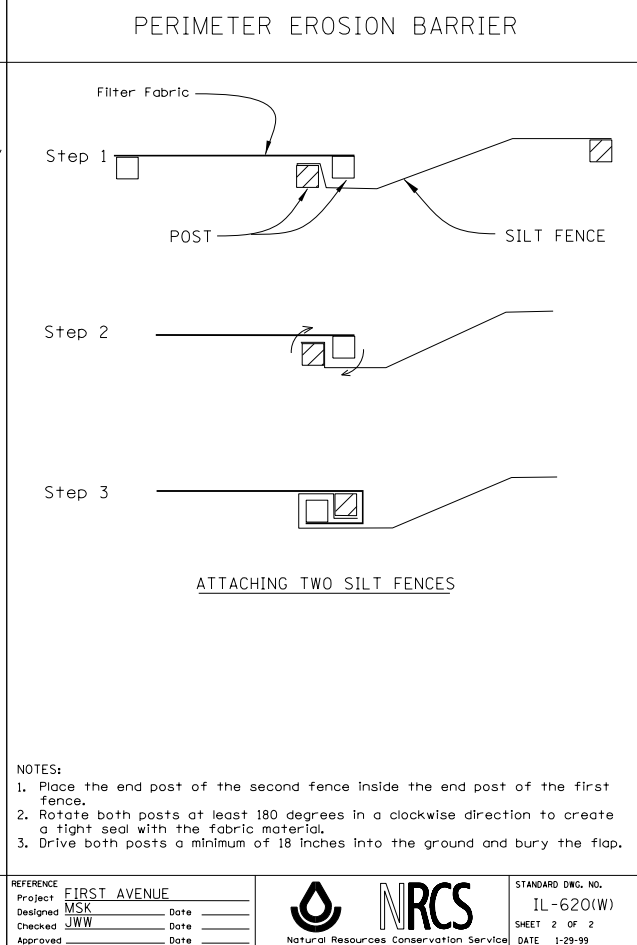
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DESIGNED MSK		SHEET 1 OF 2
CHECKED JWW		DATE 8-18-94
APPROVED		



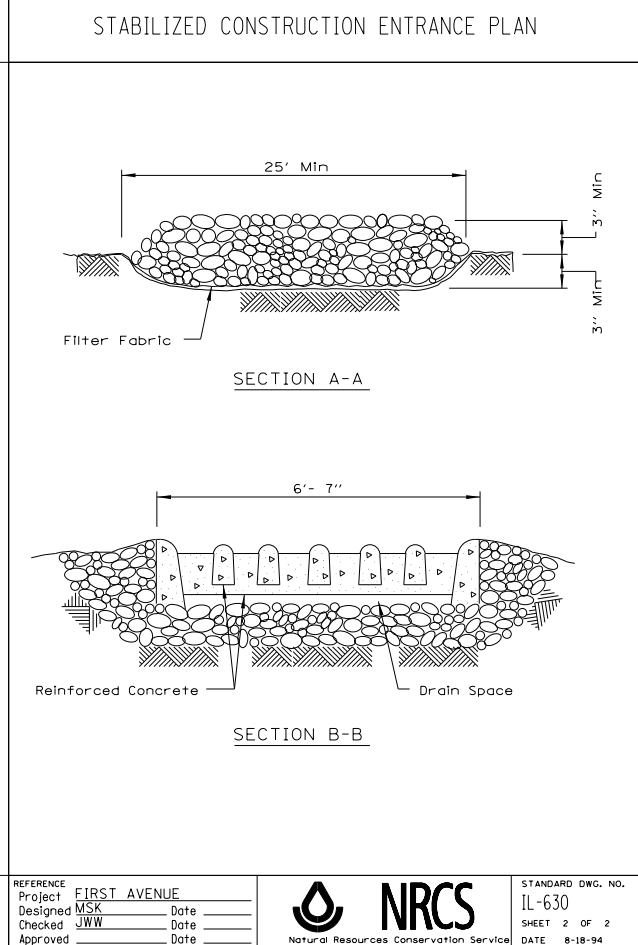
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APPROVED		



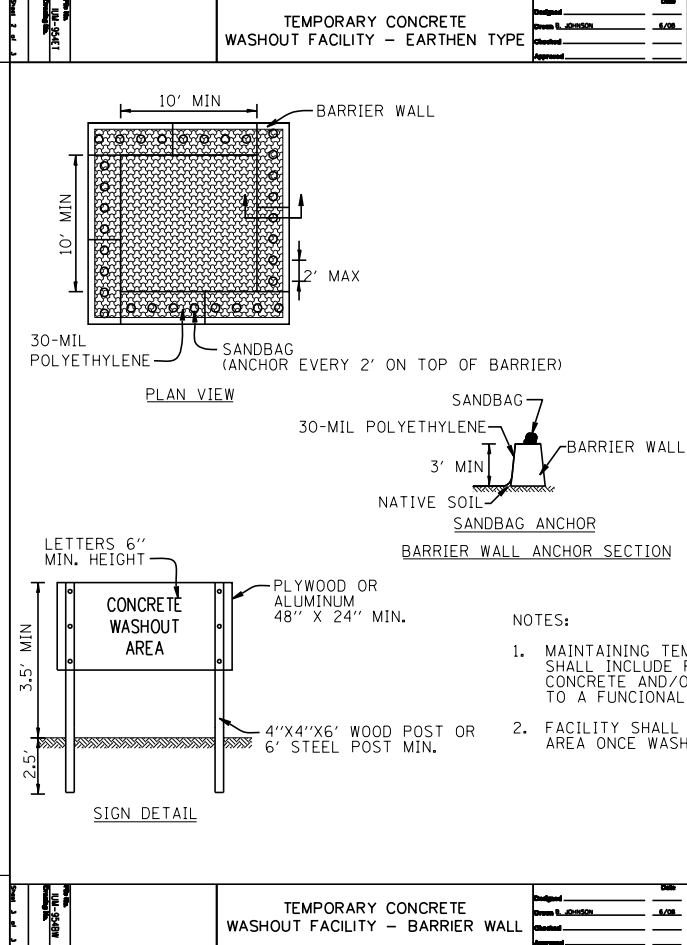
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DESIGNED MSK		SHEET 2 OF 2
CHECKED JWW		DATE 3-1-95
APPROVED		



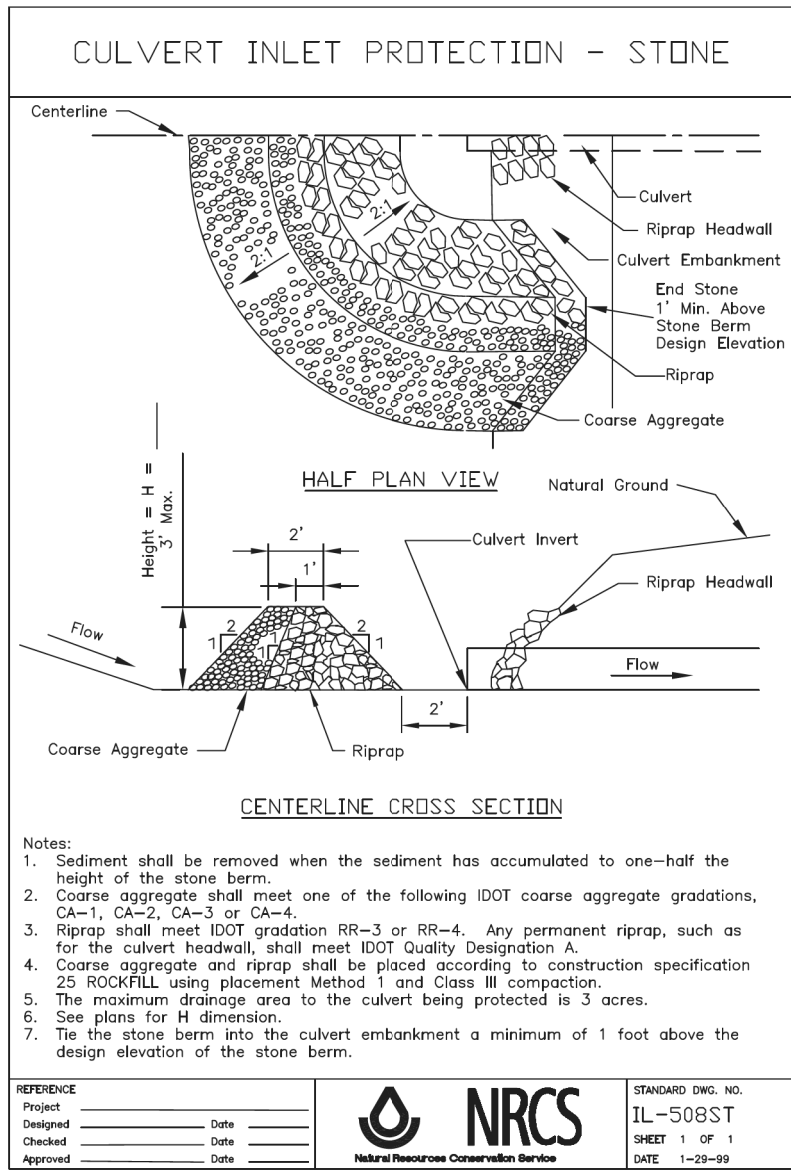
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DESIGNED MSK		SHEET 2 OF 2
CHECKED JWW		DATE 1-29-99
APPROVED		



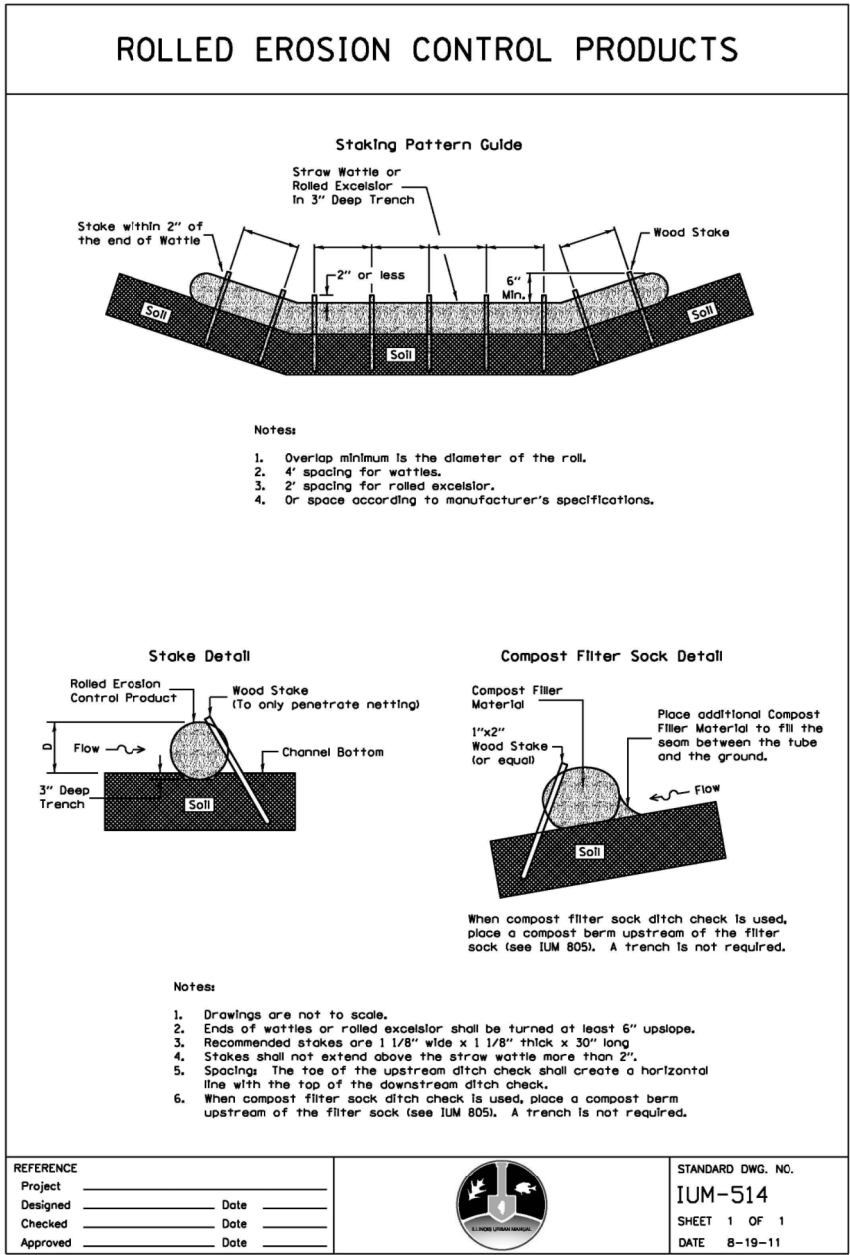
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DESIGNED MSK		SHEET 2 OF 2
CHECKED JWW		DATE 8-18-94
APPROVED		



REFERENCE PROJECT FIRST AVENUE		STANDARD DWG. NO. IL-630
DESIGNED MSK		SHEET 2 OF 2
CHECKED JWW		DATE 8-18-94
APPROVED		



NOTE:
CULVERT INLET PROTECTION-STONE SHALL BE PAID FOR AS AGGREGATE DITCH CHECK



NOTE:
ROLLED EROSION CONTROL PRODUCTS SHALL BE PAID FOR AS PERIMETER EROSION BARRIER (ROLLED EXCELSIOR)

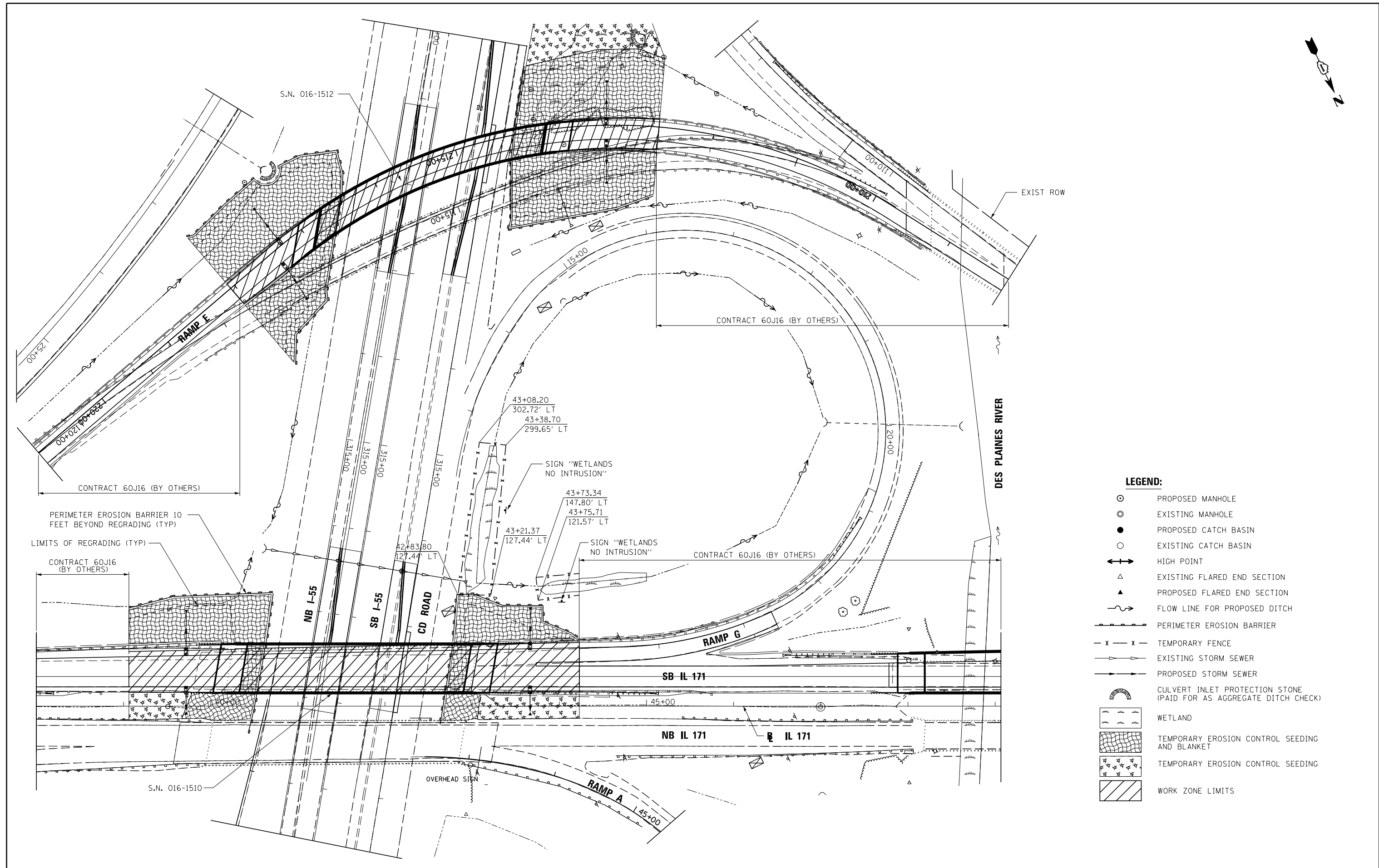
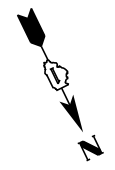
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USER NAME = agtbson	CHECKED - JMM	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL DETAILS			
SCALE: N.T.S.	SHEET 3 OF 4 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	37
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				



FILE NAME =	DESIGNED - AAA	REVISED -
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PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -

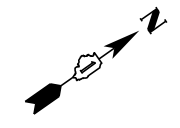
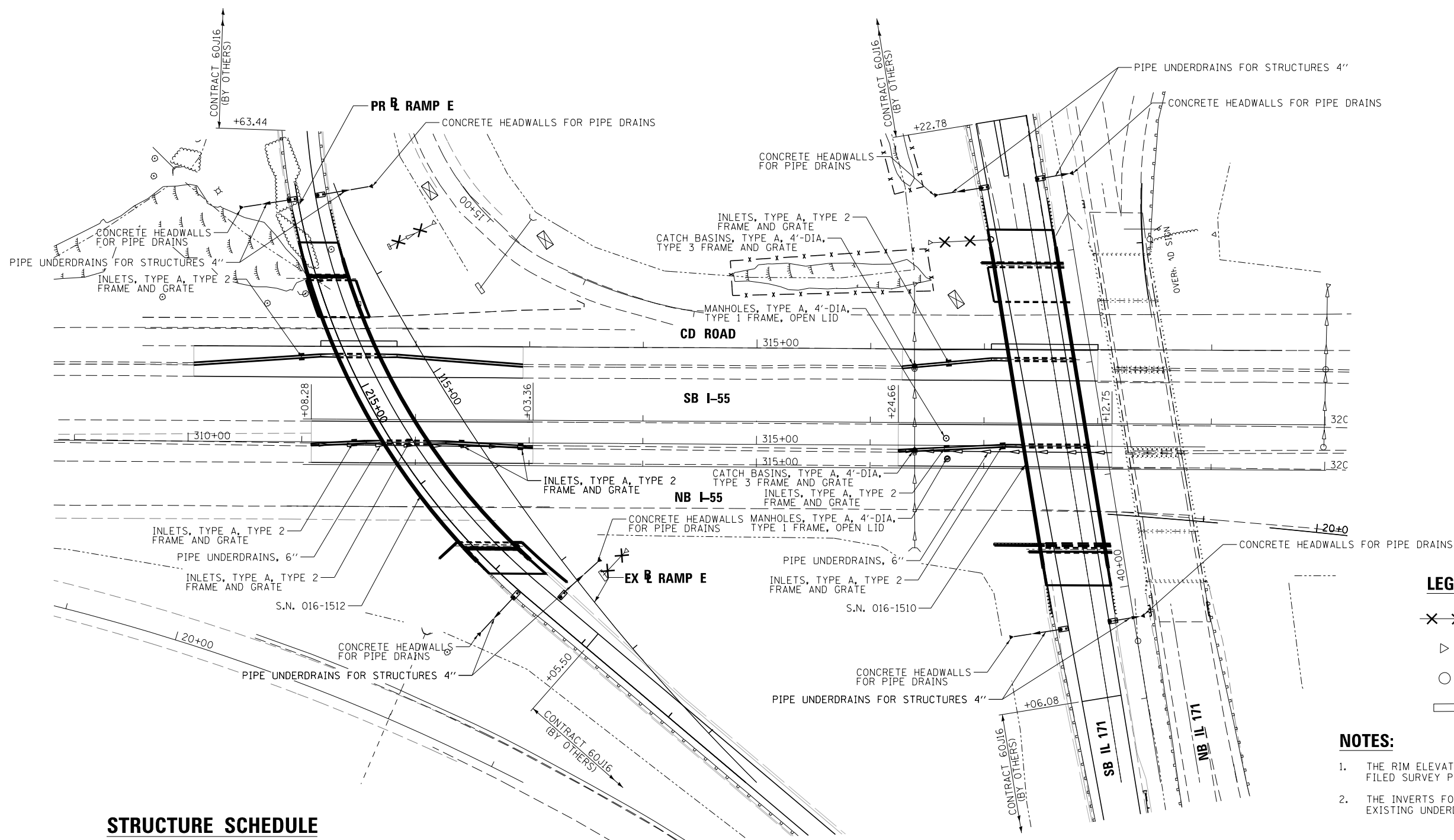


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL
SB IL 171 & RAMP E**

SCALE: 1"=50' SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	38
				CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT				



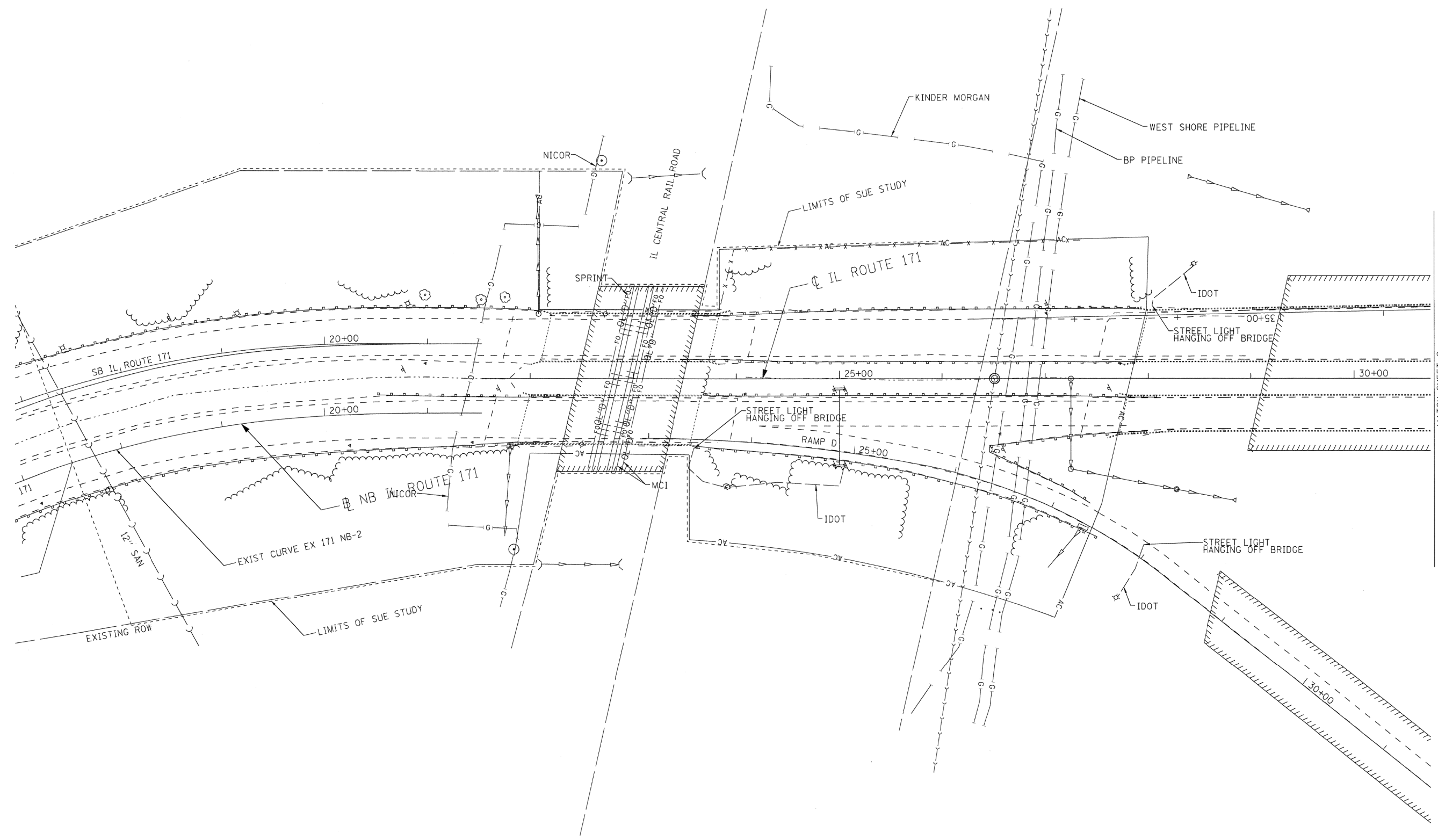
- LEGEND:**
- ✕ ✕ PIPE CULVERT REMOVAL
 - ▷ HEADWALL REMOVAL
 - REMOVAL CATCH BASINS
 - REMOVAL INLETS

- NOTES:**
1. THE RIM ELEVATIONS WERE INTERPOLATED FROM FILED SURVEY POINTS.
 2. THE INVERTS FOR THE CONNECTIONS TO THE EXISTING UNDERDRAINS ARE TO BE FIELD VERIFIED.

STRUCTURE SCHEDULE

LOCATION	STRUCTURE	PAY ITEM NO	STA	OFFSET	RIM/HEADWALL ELEV.
IL-171	CONCRETE HEADWALLS FOR PIPE DRAINS	60100060	39+72.03	-106.73	606.11
IL-171	CONCRETE HEADWALLS FOR PIPE DRAINS	60100060	39+71.89	6.08	618.31
IL-171	CONCRETE HEADWALLS FOR PIPE DRAINS	60100060	43+66.65	-109.6	602.51
IL-171	CONCRETE HEADWALLS FOR PIPE DRAINS	60100060	43+66.52	6.8	619.08
IL-171	TYPE F INLET BOX, STANDARD 610001	61000225	39+71.71	-18.82	622.46
IL-171	TYPE F INLET BOX, STANDARD 610001	61000225	39+71.71	-62.59	622.12
IL-171	TYPE F INLET BOX, STANDARD 610001	61000225	43+66.34	-68.92	620.17
IL-171	TYPE F INLET BOX, STANDARD 610001	61000225	43+66.34	-18.96	621.12
RAMP E	CONCRETE HEADWALLS FOR PIPE DRAINS	60100060	213+23.02	47.67	608.55
RAMP E	CONCRETE HEADWALLS FOR PIPE DRAINS	60100060	213+24.81	-63.26	617.71
RAMP E	CONCRETE HEADWALLS FOR PIPE DRAINS	60100060	217+26.94	49.31	608.22
RAMP E	CONCRETE HEADWALLS FOR PIPE DRAINS	60100060	217+58.96	-63.8	606.94
RAMP E	TYPE F INLET BOX, STANDARD 610001	61000225	213+23.94	4.83	625.75
RAMP E	TYPE F INLET BOX, STANDARD 610001	61000225	213+24.36	-20.43	624.24
RAMP E	TYPE F INLET BOX, STANDARD 610001	61000225	217+28.15	5.19	627.04
RAMP E	TYPE F INLET BOX, STANDARD 610001	61000225	217+59.52	-21.81	624.61
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	316+68.64	-74.63	602.37
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	316+68.99	-70.29	602.37

LOCATION	STRUCTURE	PAY ITEM NO	STA	OFFSET	RIM/HEADWALL ELEV.
I-55	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	60200305	316+38.67	-69.63	602.35
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	310+99.70	-72.52	606.52
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	310+99.37	-77.17	606.52
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	311+46.15	-1.81	605.54
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	311+46.30	2.80	605.54
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	311+94.50	-2.37	605.13
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	311+94.43	2.33	605.13
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	312+40.65	-1.62	604.80
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	312+40.42	2.98	604.80
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	312+92.53	1.08	604.50
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	312+92.32	5.47	604.50
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	316+67.36	0.53	601.92
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	316+67.59	4.85	601.92
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	317+16.54	-2.03	601.94
I-55	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	60235610	317+16.69	2.26	601.94
I-55	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	60200305	316+36.17	4.35	601.98
I-55	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	60218300	316+66.90	-6.26	602.15
I-55	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	60218300	316+67.93	11.71	602.14



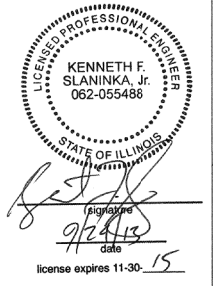
MATCH SHEET 2

---	A	STREET LIGHT
---	A	AERIAL
---	0	UNKNOWN
---	0	OIL
---	CTV	CABLE TV
---	T	TELEPHONE
---	G	GAS
---	E	ELECTRIC
---	W	WATER
---	FO	FORCE MAIN
---	FO	FIBER OPTIC
---		END OF INFORMATION
⊙		TBE TEST HOLE

UTILITY OWNERS	
AT&T	= TELEPHONE
BP	= PIPELINE
COM-ED	= ELECTRIC
IDOT	= ELECTRIC
KINDER MORGAN	= PIPELINE
MWRD	= WATER
NICOR	= GAS
UNITE	= FIBER OPTIC
VILLAGE OF McCOOK	= WATER
WEST SHORE	= PIPELINE

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's "B" SUE field investigation was performed 7/13/13 through 9/13/13. Changes to utilities after 9/13/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510524
SUE Plan Page: 1 of 12

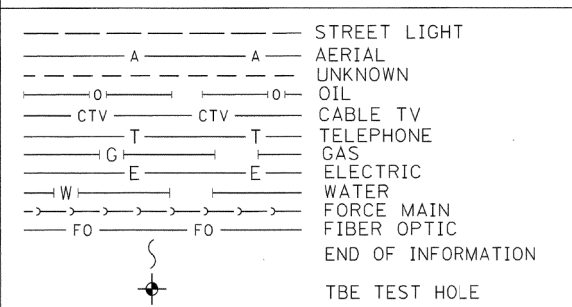
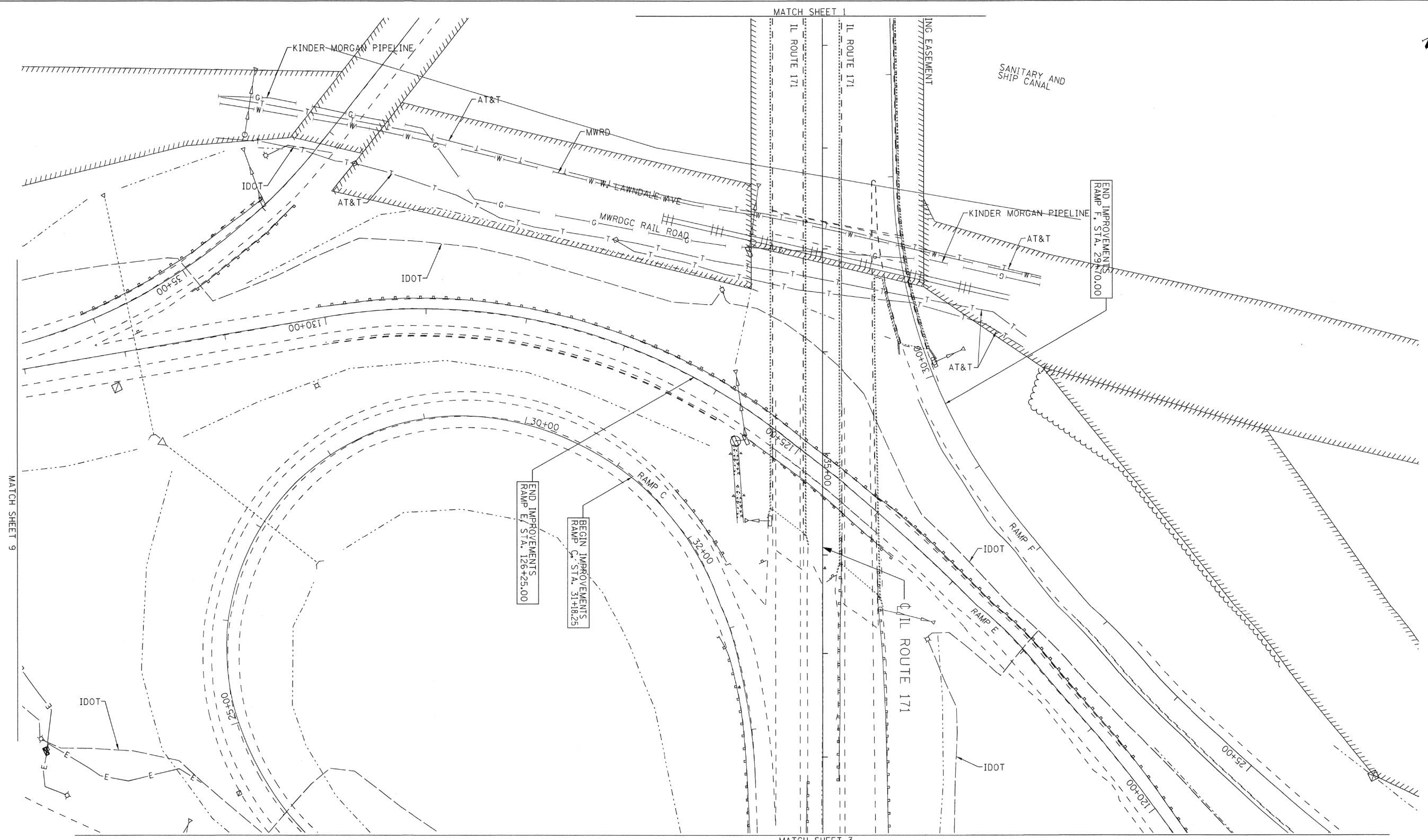
Utility Quality Level "A": Visually Verified Test Hole
Utility Quality Level "B": Designating/non Visually Verified Test Hole
Utility Quality Level "C": Research with Survey
Utility Quality Level "D": Records Research

DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/20/13	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois**

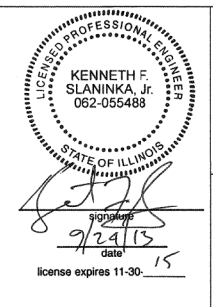
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(110707 & 611)HB-B	Cook	177	40
Contract No. 60W77				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No.				



UTILITY OWNERS	
AT&T	= TELEPHONE
BP	= PIPELINE
COM-ED	= ELECTRIC
IDOT	= ELECTRIC
KINDER MORGAN	= PIPELINE
MWRD	= WATER
NICOR	= GAS
UNITE	= FIBER OPTIC
VILLAGE OF MCCOOK	= WATER
WEST SHORE	= PIPELINE

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510524
SUE Plan Page: 2 of 12

Utility Quality Level "A":	Visually Verified Test Hole
Utility Quality Level "B":	Designating/non Visually Verified Test Hole
Utility Quality Level "C":	Research with Survey
Utility Quality Level "D":	Records Research

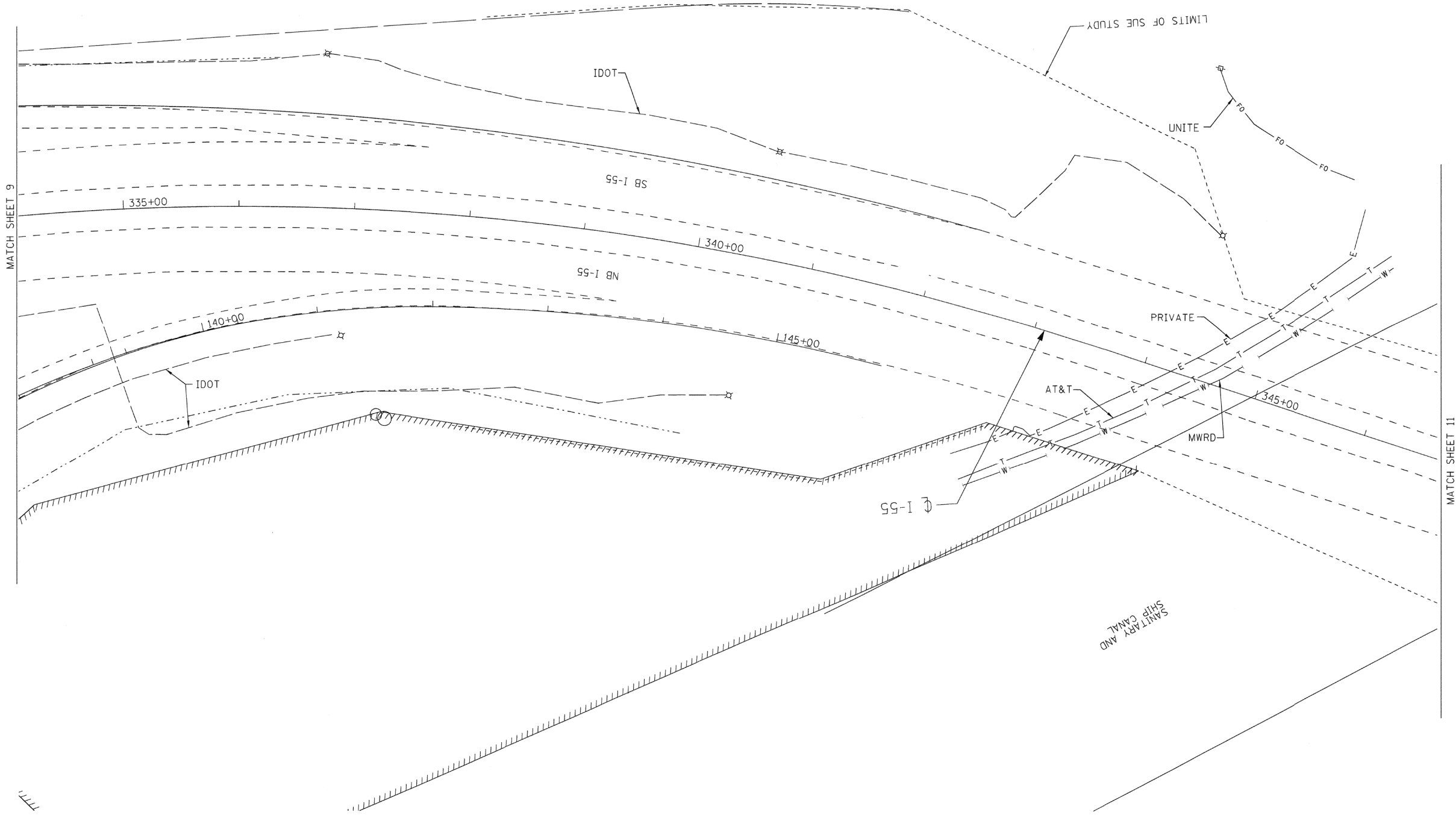
DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/20/13	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	110707 & 611118-B	Cook	177	41

Contract No. 60W77	
FED. ROAD DIST. No.	ILLINOIS IDOT Project No.

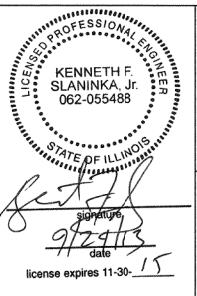
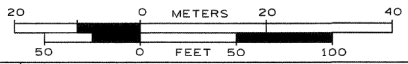


— A — A —	STREET LIGHT
— 0 — 0 —	AERIAL UNKNOWN
— CTV — CTV —	OIL
— T — T —	CABLE TV
— G — G —	TELEPHONE
— E — E —	GAS
— W — W —	ELECTRIC
—>>>—>>>—>>>—>>>—	FORCE MAIN
— FO — FO —	FIBER OPTIC
⊙	END OF INFORMATION
⊙	TBE TEST HOLE

UTILITY OWNERS	
AT&T = TELEPHONE	
BP = PIPELINE	
COM-ED = ELECTRIC	
IDOT = ELECTRIC	
KINDER MORGAN = PIPELINE	
MWRD = WATER	
NICOR = GAS	
UNITE = FIBER OPTIC	
VILLAGE OF McCOOK = WATER	
WEST SHORE = PIPELINE	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's "B" SUE field investigation was performed 7/13/13 through 9/13/13. Changes to utilities after 9/13/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510524
SUE Plan Page: 10 of 12

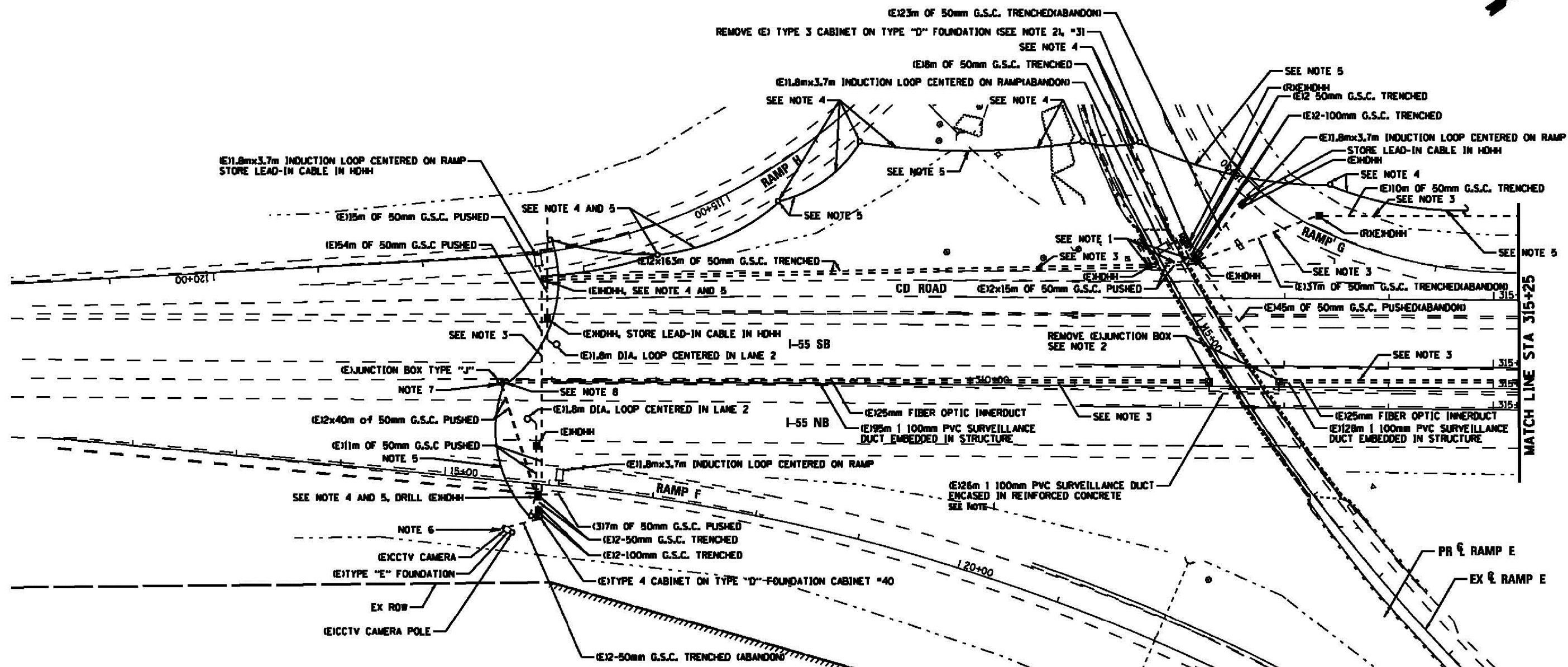
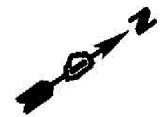
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED JP	REVISED
DRAWN KLC	REVISED
CHECKED KFS	REVISED
DATE 9/20/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois

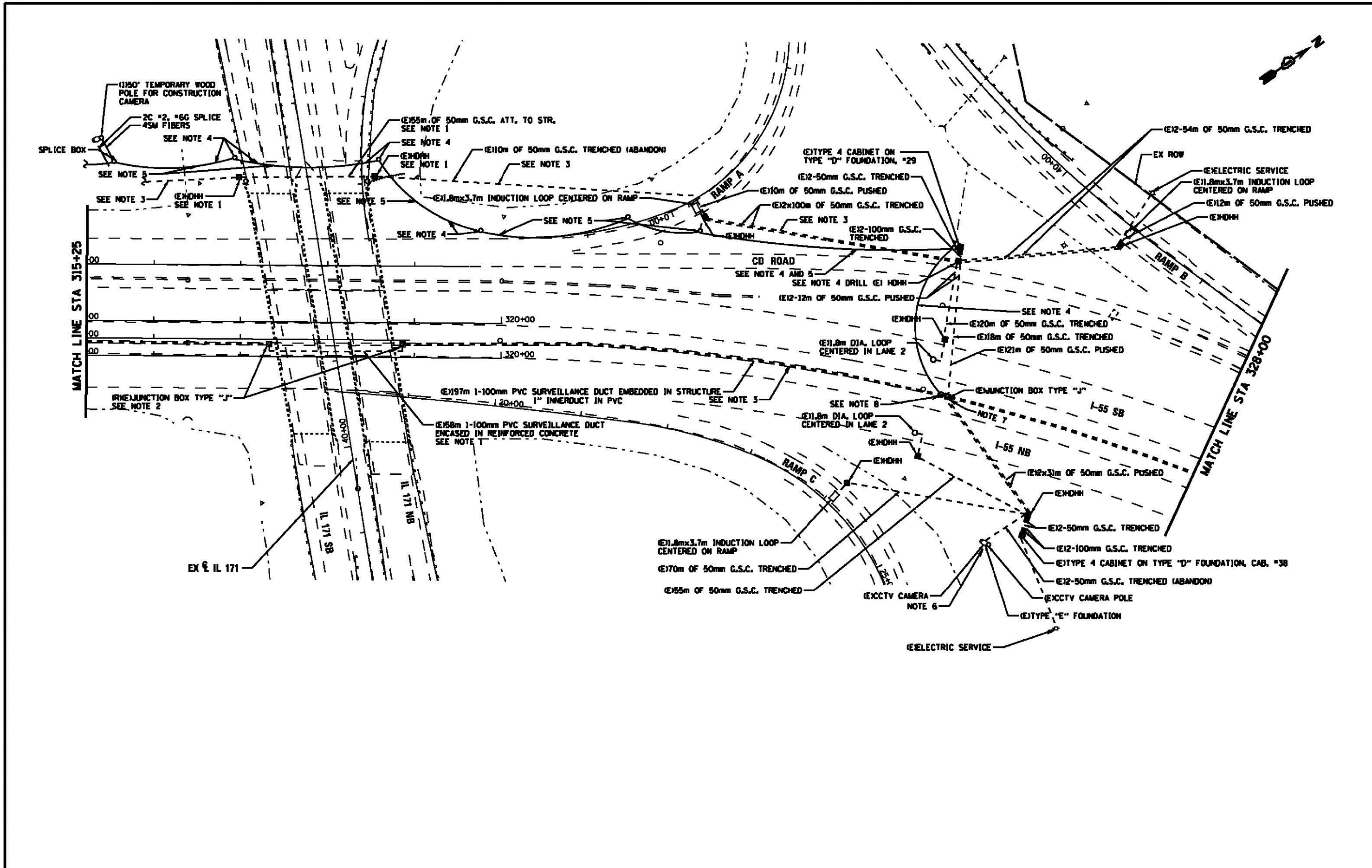
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	110707 & 610708-B	Cook	177	42
Contract No. 60W77				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No.				



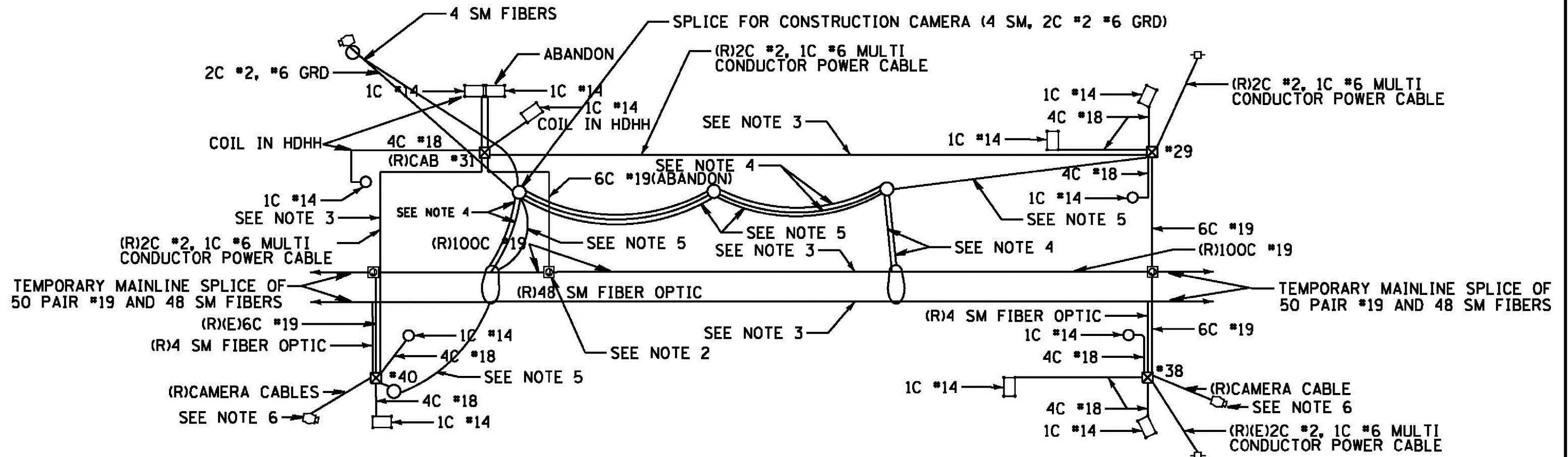
NOTES:

1. ABANDON HDH'S, CONDUIT ATT TO STRUCTURE, CONDUIT PUSHED, REINFORCED CONCRETE.
2. J BOXES AND CAB 31 (WITH ELECTRONICS) SHALL BECOME PROPERTY OF THE STATE SEND TO ADDRESS IN NOTE 6.
3. REMOVE 2C*2, 1C*6G, 100C*19, 48SM FIBER, 6C *19, 4 SM FIBERS INNERDUCT. DISPOSAL OR SALVAGE SHALL BE APPROVED BY ENGINEER. THEY SHALL NOT BE RE-USED FOR THESE CONTRACTS.
4. THE CONTRACTOR SHALL INSTALL TEMPORARY SOFT, WOOD POLES, TEMPORARY NEW 48 SM FIBERS, TEMPORARY NEW 2C *2W *6G, TEMPORARY NEW 6C *19, TEMPORARY NO 50 PAIR *19, @ LOCATIONS THAT WILL NOT INTERFERE CONTRACTOR OPERATIONS. DRILLING HDH'S INCLUDED IN PRICE FOR TEMPORARY WOOD POLES.
5. INSTALL 2C*2, 1C*6 GROUND ON POLES, SHALL BE CONTINUOUS FROM CABINET 29 TO 40.
6. REMOVE CAMERA AND SEND TO TSC ATTN ROY LAWSON 445 HARRISON ST, OAK PARK IL 60304. REMOVE CCTV CAMERA POLE. CONTRACTOR SHALL DISPOSE OR SALVAGE AS APPROVED BY ENGINEER. REMOVE TYPE "E" FOUNDATION.
7. SPLICE 50 PAIR *19 CABLE, SPLICE 48 SM FIBER 4SM, 6C *19. PROTECT "J-BOX".
8. REMOVE 10FT. OF BARRIER WALL FOR TEMPORARY WOOD POLE.
9. THE INSTALLATIONS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. RAMP H, E, AND G AND SB LANE 2 WILL NOT BE IN OPERATION.
10. INSTALLATION AND REMOVAL OF TEMPORARY WOOD POLES INCLUDED IN WOOD POLE PAY ITEM.
11. BARRIER WALL REMOVAL SHALL BE INCLUDED IN THE BRIDGE DEMOLITION.
12. AERIAL FIBER OPTIC CABLE IS INCLUDED IN THE FIBER OPTIC CABLE SPECIAL PROVISION.
13. AERIAL 50 PAIR NO. 19, 50 PAIR IS INCLUDED IN THE ELECTRIC CABLE NO. 19, 50 PAIR PAY ITEM.
14. REMOVAL OF INNERDUCT SHALL BE INCLUDED IN REMOVE ELECTRIC CABLE FROM CONDUIT PAY ITEM.

FILE NAME *	DESIGNED - J.C.	REVISED - REVISION 2, J.C. 6-10-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		TSC REMOVAL/TEMPORARY PLAN		F.A.P. RTL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE#	DRAWN - G.A.L.	REVISED - REVISION 3, J.C. 7-23-14					373	10707-608 & 611#B-B	COOK	177	43
USER NAME * NUMBER	CHECKED - J.C.	REVISED -	SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 60777		ILLINOIS FPD, AND PROJECT				
PLOT DATE * NUMBER	DATE - 6/23/2014	REVISED -									

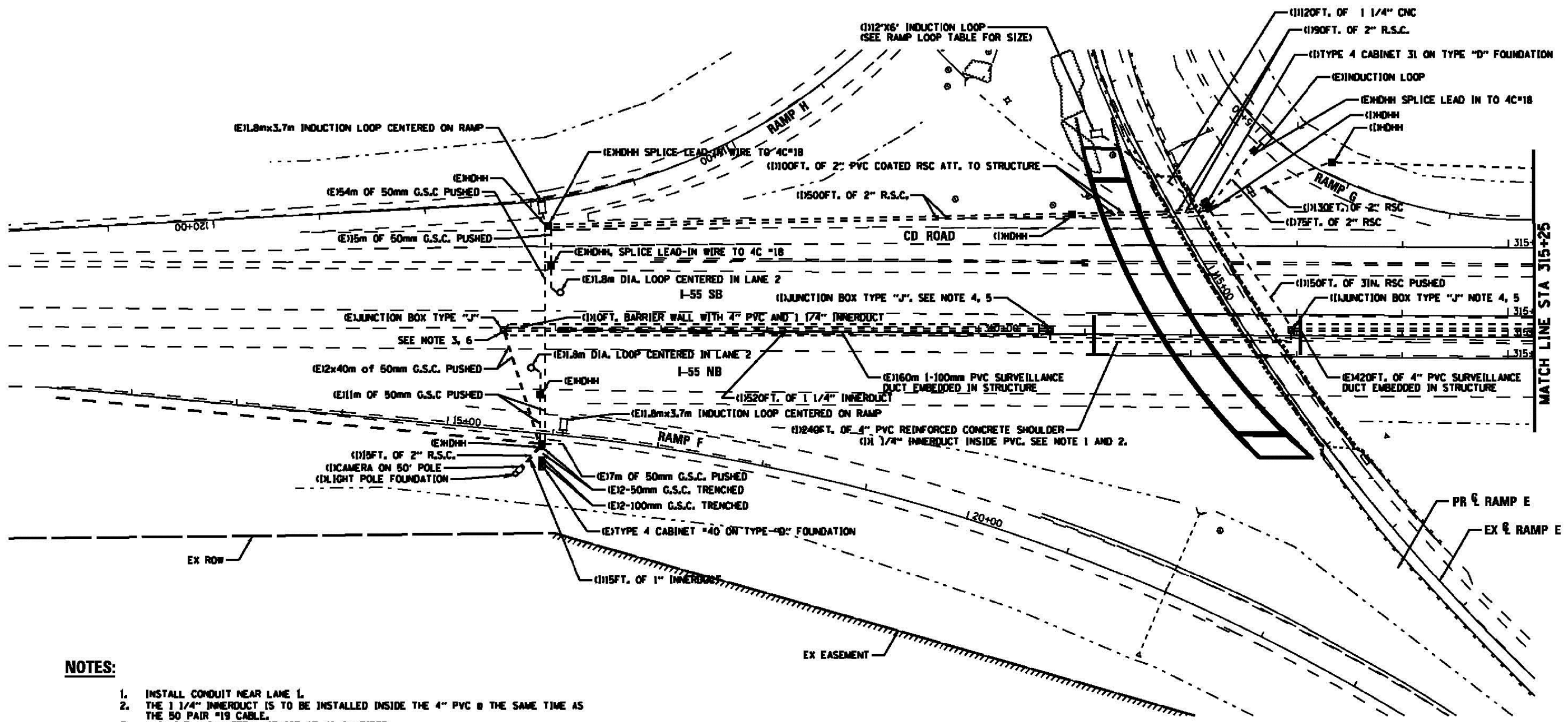


FILE NAME *	DESIGNED - J.G.	REVISED - REVISED NO. 6-10-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TSC REMOVAL/TEMPORARY PLAN	F.A.P. RTL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pe_mork\prido1\m2ag\0630686\0180477-	DRWING-Rel-pln-02.dgn	REVISED -			375	0707-608 & 6114-B	COOK	177	44	
USER NAME * m2ag	CHECKED - J.G.	REVISED -			CONTRACT NO. 60777					
PLOT DATE * 7/23/2014	DATE - 6/12/2014	REVISED -			ILLINOIS TSC AND PROJECT					
					SHEET	OF	SHEETS	STA.	TO STA.	



TEMPORARY WIRING DIAGRAM RTE. 171 INTERCHANGE

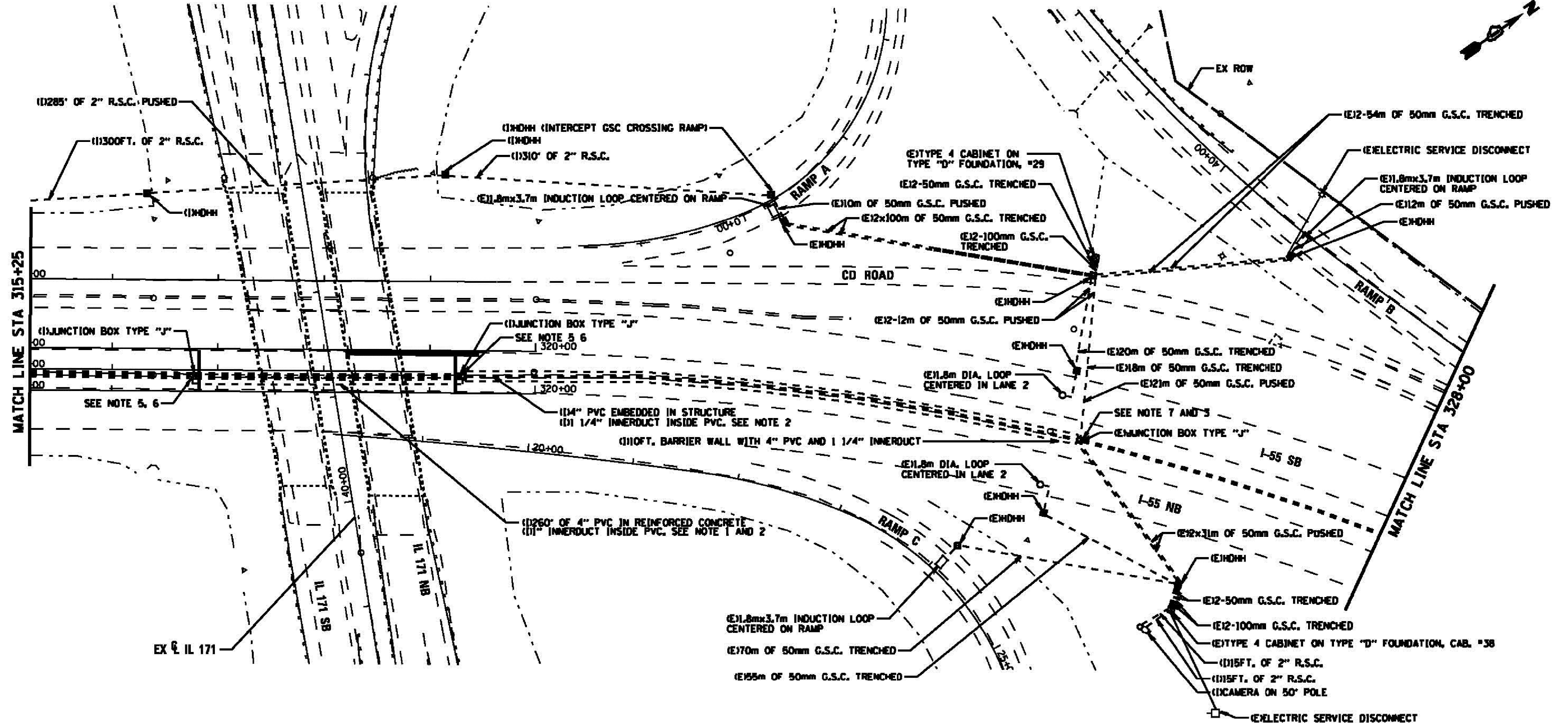
FILE NAME *	DESIGNED - J.C.	REVISED - REVISION #5, 6, 10, 11		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TSC REMOVAL/TEMPORARY PLAN	F.A.P. RTE. 373	SECTION 10707-606 & 611MB-B	COUNTY COOK	TOTAL SHEETS 177	SHEET NO. 45
WFILE#	DRAWN - G.M.	REVISED -								
USER NAME * SUBDIR	CHECKED - J.C.	REVISED -								
PLOT DATE * DATE	DATE - 6/12/2014	REVISED -								
						SHEET 0F SHEETS STA. TO STA.	ILLINOIS TOL. AND PROJECT			
CONTRACT NO. 60W77										



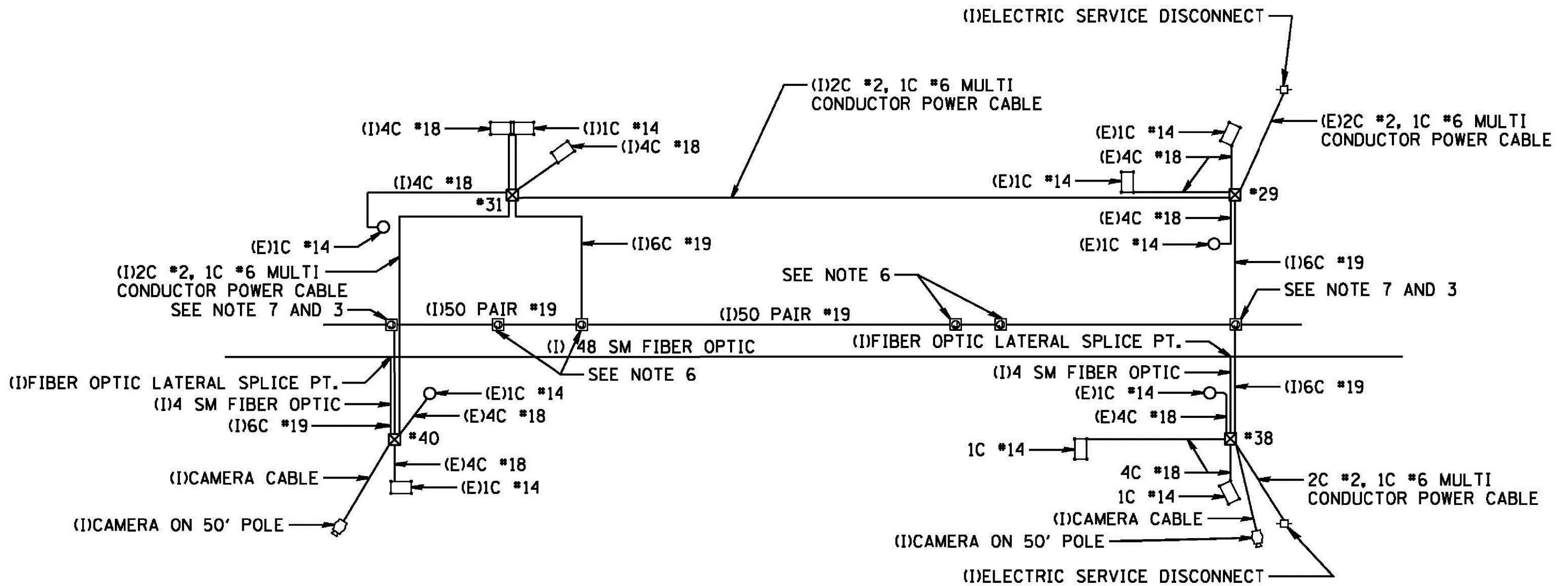
NOTES:

1. INSTALL CONDUIT NEAR LANE 1.
2. THE 1/4" INNERDUCT IS TO BE INSTALLED INSIDE THE 4" PVC @ THE SAME TIME AS THE 50 PAIR #19 CABLE.
3. MAINLINE AND LATERAL SPLICE OF 48 SM FIBER.
4. INSTALL J BOX USING ONE FROM STATE STOCK.
5. NO MAINLINE SPLICE OF 50 PAIR #19 OR 48 SM FIBERS.
6. MAINLINE SPLICE OF 50 PAIR #19.
7. REMOVE TEMPORARY POLES AND CABLES AFTER NEW CABLES HAVE BEEN INSTALLED AND TESTED TO THE SATISFACTION OF THE ENGINEER.
8. INSTALLATION OF BARRIER WALL SHALL BE INCLUDED IN THE INSTALLATION OF THE BRIDGE.
9. 2C #2 WITH #6 GROUND SHALL BE ACCORDING TO ARTICLE B16.
10. FIBER OPTIC TESTING SHALL BE DONE FROM WILLOW SPRINGS RD. TO DAN RAYN.
11. TO MINIMIZE OUTAGES, WORK THAT WILL AFFECT DATA TRANSFER SHALL BE DONE ON WEEK DAYS BETWEEN 10:00 PM AND 5:00 AM, AND WEEKENDS.

FILE NAME *	DESIGNED - J.G.	REVISED - REVISION 2, J.G., 6-10-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PERMANENT TSC PLAN		F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME * meazg	CHECKED - J.G.	REVISED -		373	10707-608 & 611WB-B	COOK	177	46		
PLOT DATE * 7/23/2014	DATE - 6/16/2014	REVISED -		SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 60777				



FILE NAME *	DESIGNED - J.C.	REVISION 2, J.C. 6-10-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PERMANENT TSC PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
WFILE#	DRAWN - G.M.	REVISION -					373	10707-608 & 611WB-B	COOK	177	47
USER NAME * NUMBER	CHECKED - J.C.	REVISION -					CONTRACT NO. 60W77				
DATE	DATE - 6/17/2014	REVISION -					ILLINOIS TOL. AND PROJECT				
PLOT DATE * NUMBER	DATE -	REVISION -					SHEET	OF	SHEETS	STA.	TO

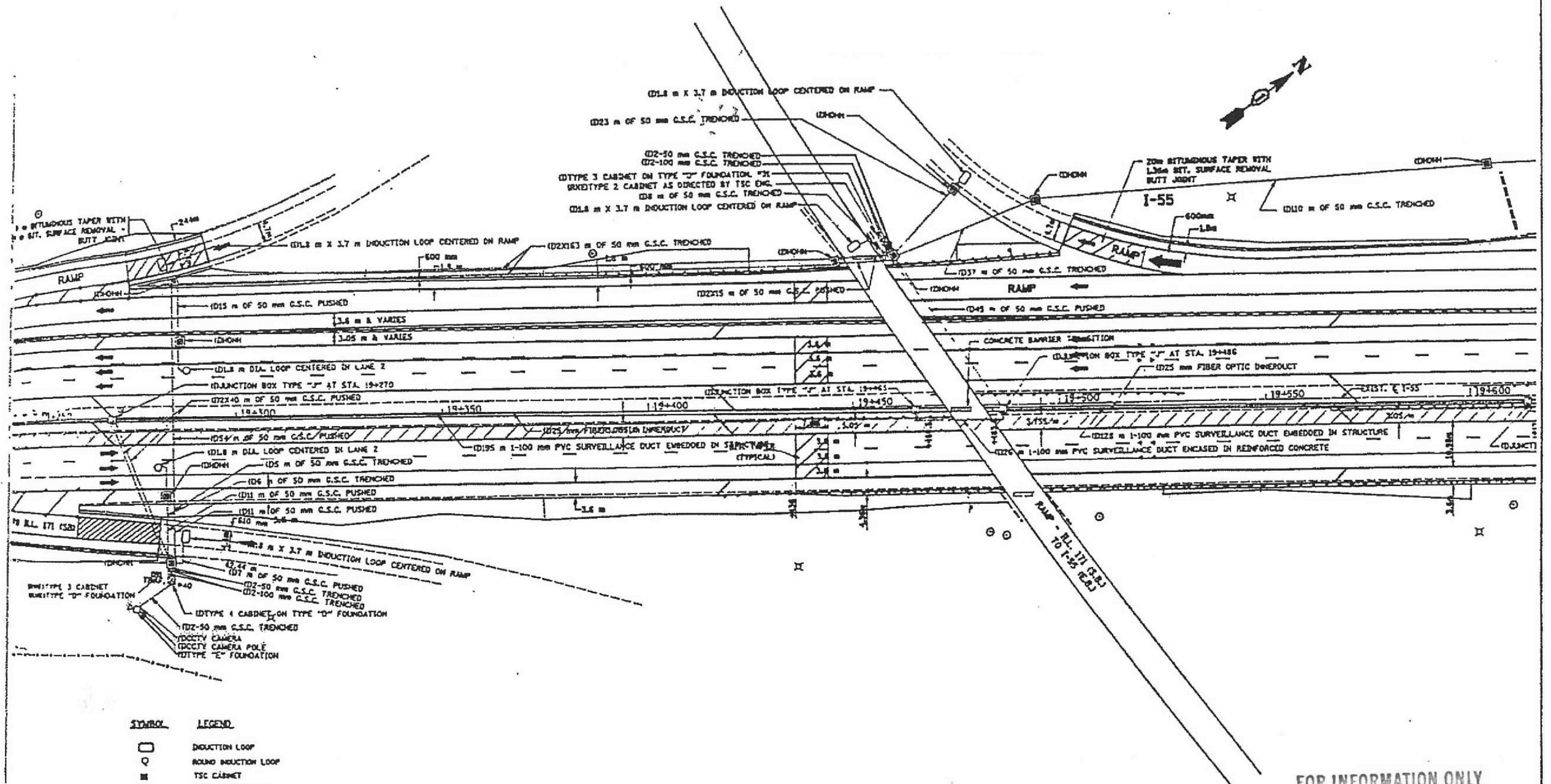


WIRING DIAGRAM RTE. 171 INTERCHANGE

FILE NAME *	DESIGNED - J.G.	REVISED - REVISION 2, J.G. 6-10-14		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PERMANENT TSC PLAN	F.A.P. RTE. 373	SECTION 10707-606 & 611WB-B	COUNTY COOK	TOTAL SHEETS 177	SHEET NO. 48
USER NAME * SUBDRW	CHECKED - J.G.	REVISED -								
PLOT DATE * DATE	DATE - 6/17/2014	REVISED -								
						SHEET 07 OF SHEETS STA. TO	ILLINOIS TOL. AID PROJECT CONTRACT NO. 60W77			

4th Location inped
 10' OFF SHOULDER (RAMP)
 100' East of EXISTING Controller
 29 1/2' OFF HIGHWAY NMN 2

90404-448, ETC. 0711.21 RS-1				
F.A. RTD.	SECTION	COUNTY	TOTL SHEETS	SHEET NO.
15		COOK	570	490
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FUEL AND PROJECT				



SYMBOL	LEGEND
□	INDUCTION LOOP
○	ROUND INDUCTION LOOP
■	TSC CABINET
○	TELEPHONE SERVICE
○	SERVICE INSTALLATION
□	JUNCTION BOX
■	HEAVY DUTY HAND HOLE
—	POLYETHYLENE DUCT
—	GALVANIZED STEEL CONDUIT
○	EXISTING
○	PROPOSED
○	INSTALL
○	REMOVE

- NOTES:
- 1- ALL J-BOXES SHALL FACE SOUTH LOCATED IN MEDIAN PARAPET OF EB LANES.
 - 2- JUNCTION BOXES TYPE "J" SHALL BE INSTALLED PER PLAN AND AT 157' IN 1500' INTERVALS MINIMUM.
 - 3- CONTACT TSC ENGINEER PRIOR TO REMOVAL OF EXISTING CABINETS (1708124-2145).
 - 4- 1000 #19 TELECOMMUNICATION CABLE SHALL ONLY BE SPLICED IN BARRIER WALL JUNCTION BOXES OR IN SURVEILLANCE CABINETS. IN AREAS WHERE CONDUITS RUN THROUGH EB RIGHT SHOULDER AND HEAVY DUTY HAND HOLE SPECIALS 1000 #19 CABLES SHALL BE PULLED CONTIGUOUS FROM CABINET TO CABINET, NO SPLICES WILL BE ALLOWED IN HAND HOLES.
 - 5- 48 SM FIBER OPTIC CABLE SHALL BE ORDERED AND PULLED IN MAXIMUM CABLE LENGTHS. ONLY SELECTIVE MIDSPAN CABLE SPLICES SHALL BE ALLOWED BETWEEN 48 SM FIBER AND 4 SM FIBER CABLES.
 - 6- FINAL CTTY LOCATIONS SHALL BE DETERMINED BY BUCKET SURVEY. LOCATIONS SHOWN ON PLANS ARE FOR INFORMATION ONLY. FINAL LOCATIONS MAY VARY FROM LOCATIONS SHOWN.
 - 7- CABINET FOUNDATION/CONCRETE PAD SHALL BE A MONOLITHIC POUR.
 - 8- CONTRACTOR SHALL CONTACT TSC ENGINEER PRIOR TO INDUCTION LOOP REPLACEMENT (1708124-2145).

FOR INFORMATION ONLY

1ST AVE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER
 I-55 STEVENSON
 28
 SCALE: 1:500
 DATE: 3-99
 DRAWN BY: G.J.L.
 CHECKED BY: B.L.

1017 Location - Is there Grade Changes?

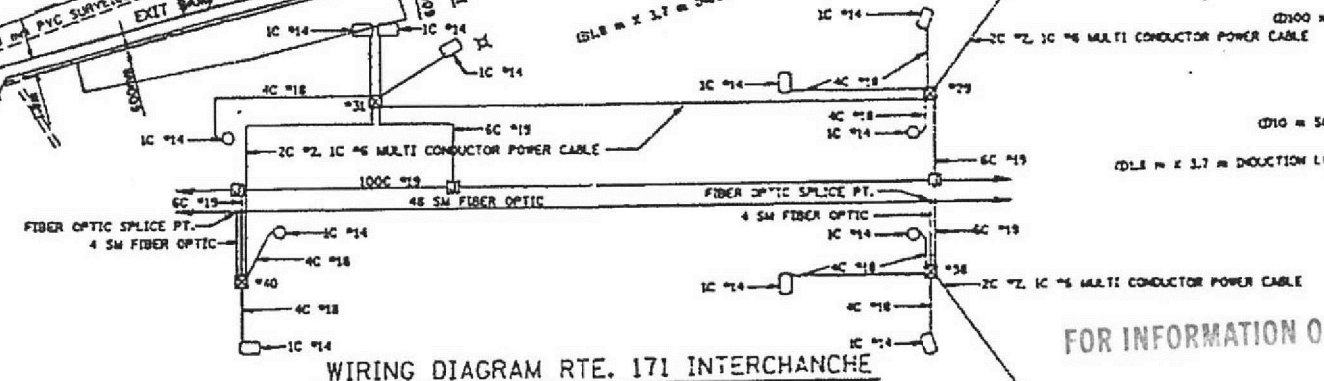
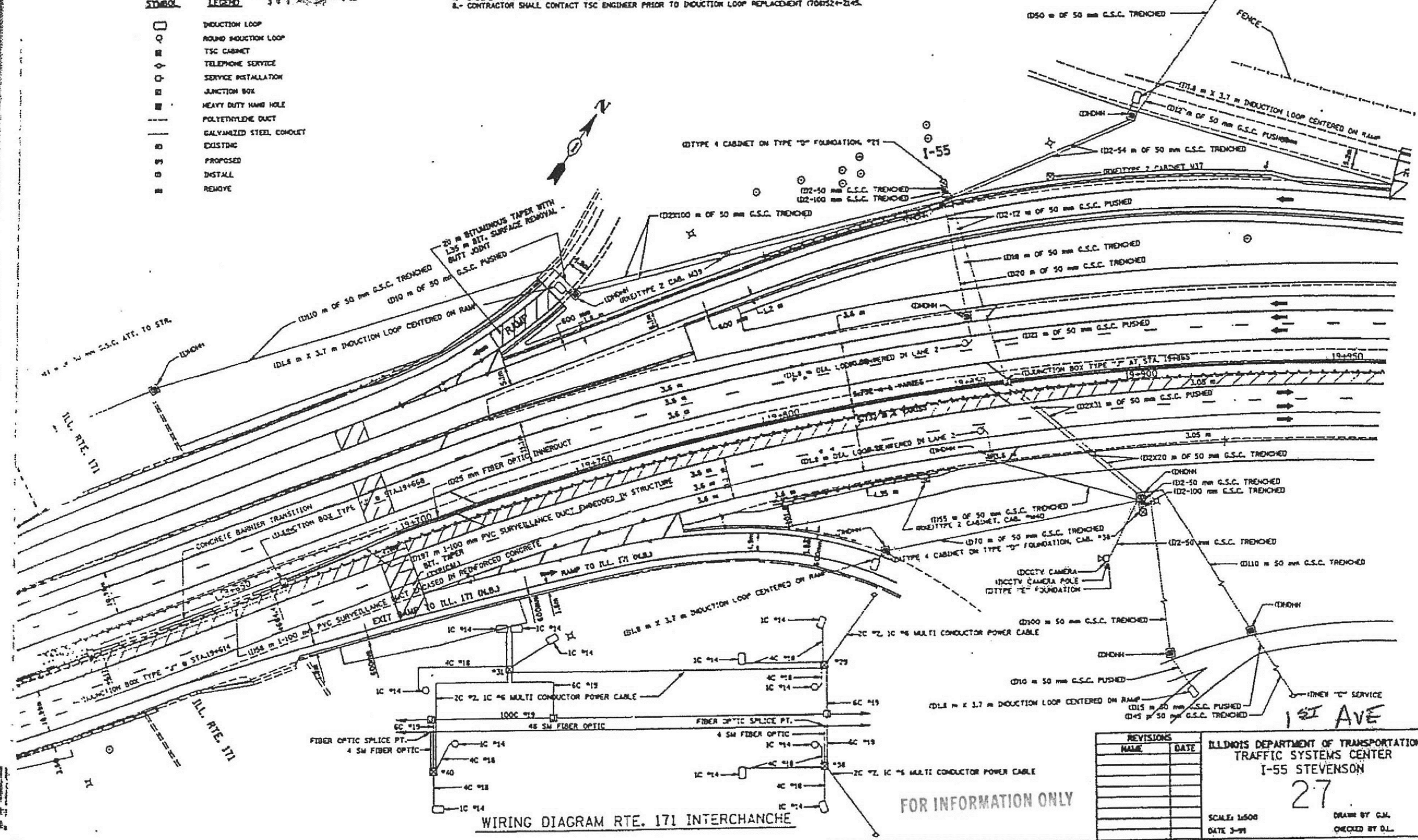
- Cabinet put back near existing
 - Camera 100' EAST 10' off shoulder From the top of NCD 2
 ~1995 etc

HD404-840, ETC. 0711.2) RS-1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
SS			278
STA.	TO STA.		421
PER. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

- NOTES:
- 1- ALL J-BOXES SHALL FACE SOUTH LOCATED IN MEDIAN PARAPET OF EB LANES.
 - 2- JUNCTION BOXES TYPE "F" SHALL BE INSTALLED PER PLAN AND AT 457 M (1500') INTERVALS MINIMUM.
 - 3- CONTACT TSC ENGINEER PRIOR TO REMOVAL OF EXISTING CABINETS (70R524-2145).
 - 4- 1000 #19 TELECOMMUNICATION CABLE SHALL ONLY BE SPLICED IN BARRIER WALL JUNCTION BOXES OR IN SURVEILLANCE CABINETS. IN AREAS WHERE CONDUITS RUN THROUGH EB RIGHT SHOULDER AND HEAVY DUTY HOLE SPECIALS 1000 #19 CABLES SHALL BE PULLED CONTINUOUS FROM CABINET TO CABINET. NO SPLICES WILL BE ALLOWED IN HOLE HOLES.
 - 5- 48 SM FIBER OPTIC CABLE SHALL BE ORDERED AND PULLED IN MAXIMUM CABLE LENGTHS. ONLY SELECTIVE WIDSPAN CABLE SPLICES SHALL BE ALLOWED BETWEEN 48 SM FIBER AND 4 SM FIBER CABLES.
 - 6- FINAL CCTV LOCATIONS SHALL BE DETERMINED BY BUCKET SURVEY. LOCATIONS SHOWN ON PLANS ARE FOR INFORMATION ONLY.
 - 7- CABINET FOUNDATION/SHIM CABINET PAD SHALL BE A MONOLITHIC POUR.
 - 8- CONTRACTOR SHALL CONTACT TSC ENGINEER PRIOR TO INDUCTION LOOP REPLACEMENT (70R524-2145).

- SYMBOL LEGEND
- INDUCTION LOOP
 - ROUND INDUCTION LOOP
 - TSC CABINET
 - ◇ TELEPHONE SERVICE
 - SERVICE INSTALLATION
 - JUNCTION BOX
 - HEAVY DUTY HOLE
 - POLYETHYLENE DUCT
 - GALVANIZED STEEL CONDUIT
 - EXISTING
 - PROPOSED
 - INSTALL
 - REMOVE



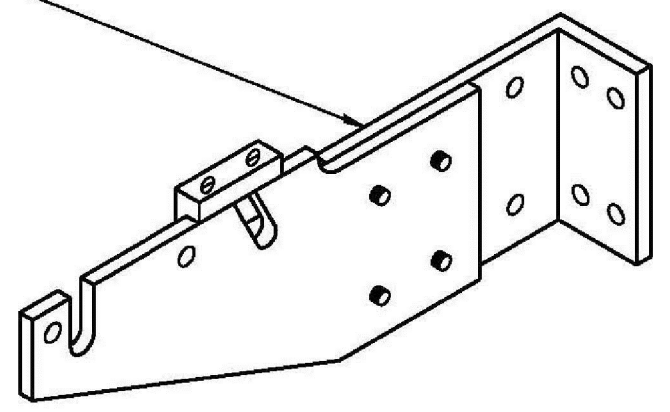
WIRING DIAGRAM RTE. 171 INTERCHANGE

FOR INFORMATION ONLY

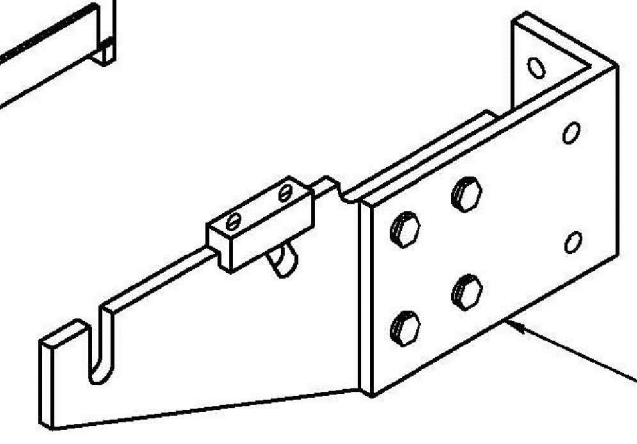
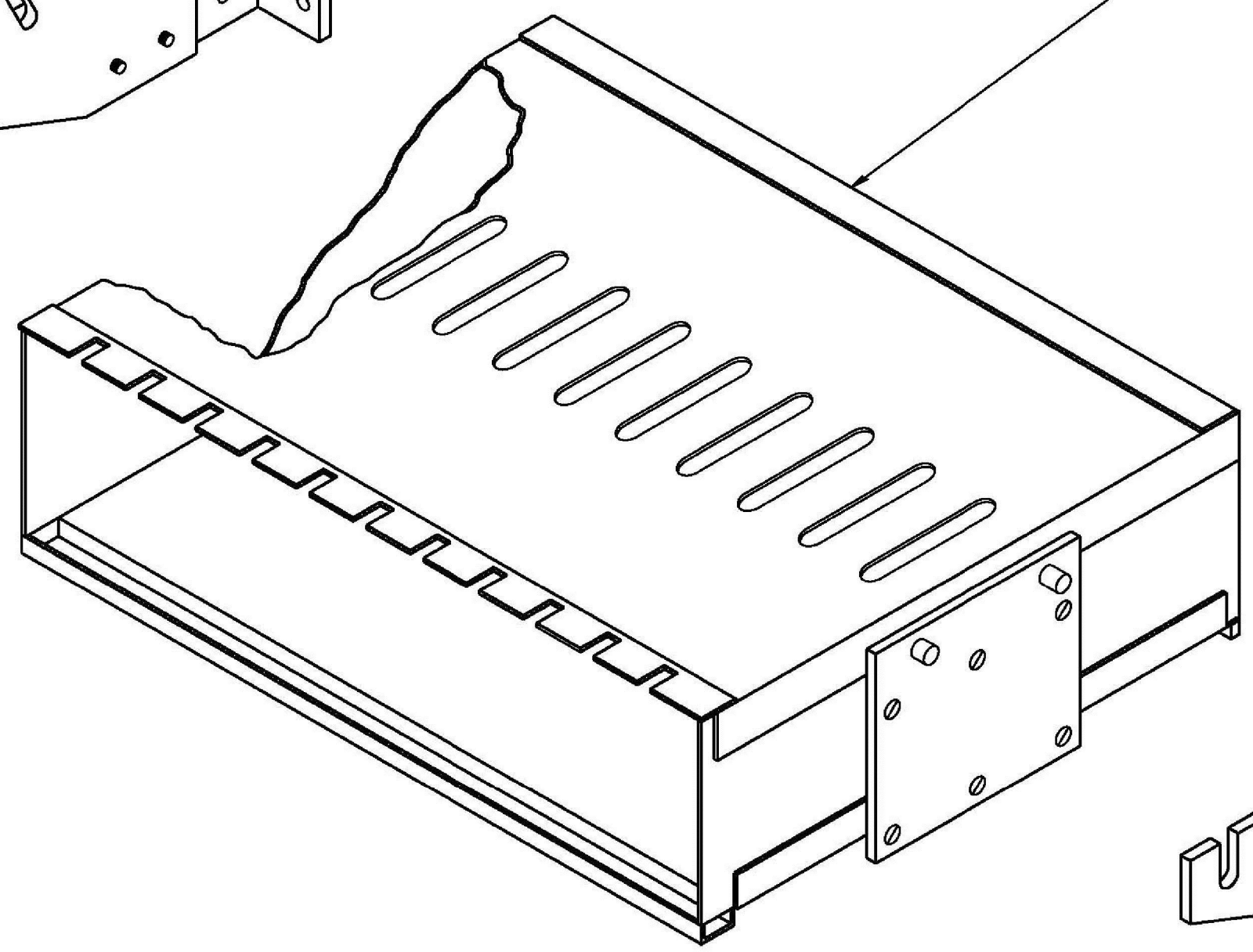
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER
 I-55 STEVENSON
 27
 SCALE: 1/8"=1'-0"
 DATE: 3-91
 DRAWN BY: C.J.L.
 CHECKED BY: D.L.

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 * mseg	DESIGNED - R.L.	REVISED - 05/94
ca\poc\work\poc\dos\mseg\09267541\TSC1Y.dgn		DRAWN - G.M.	REVISED - 09/96
Default	PLOT SCALE * 1/8"=1'-0" / in.	CHECKED - R.L.	REVISED -
	PLOT DATE * 6/2/2014	DATE - 05/21/94	REVISED -

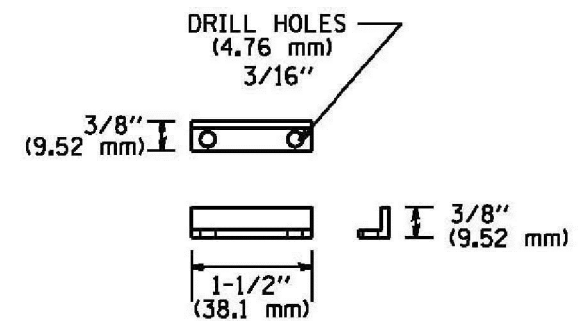
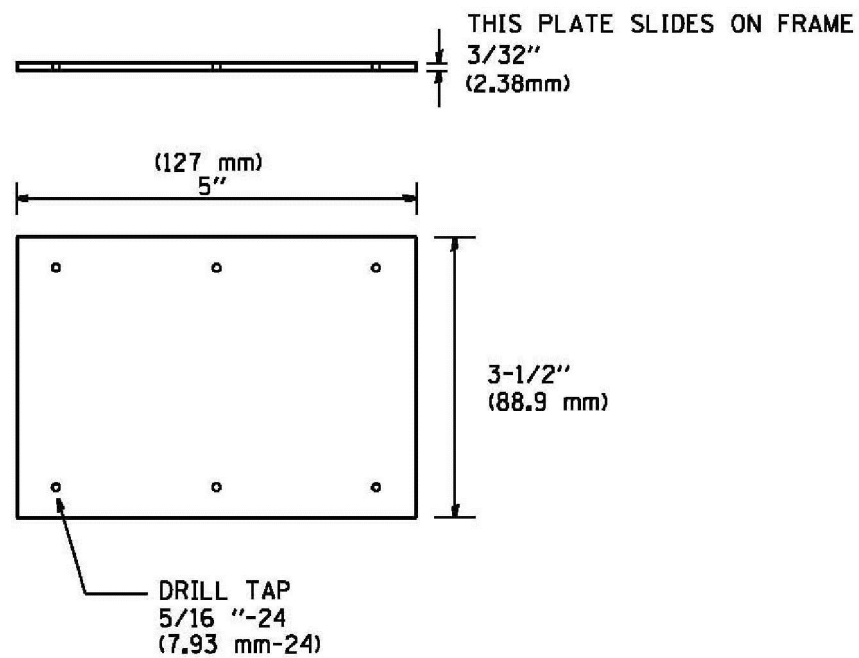
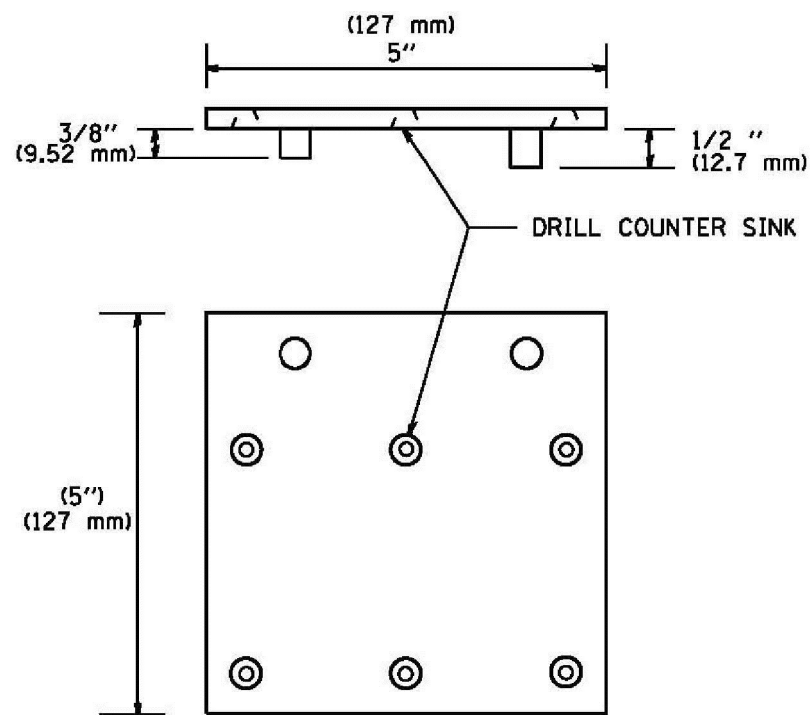
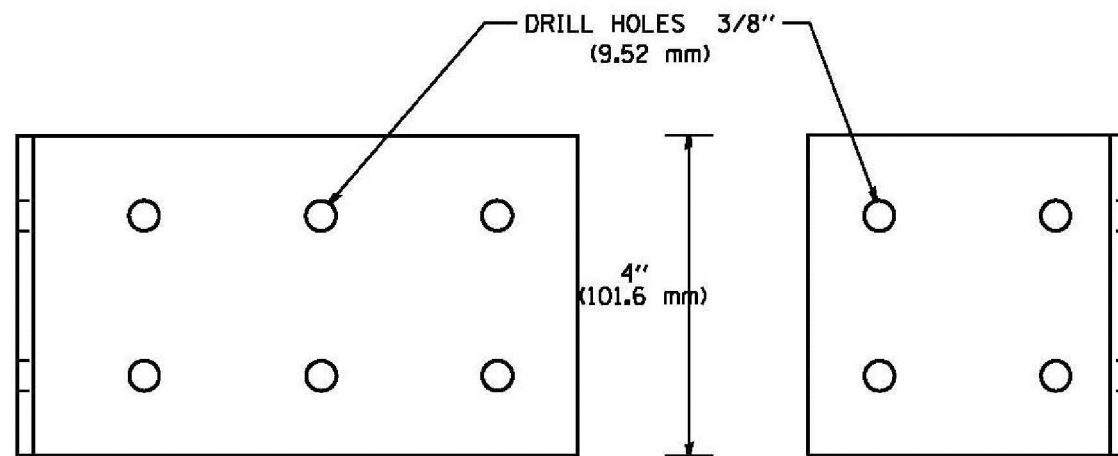
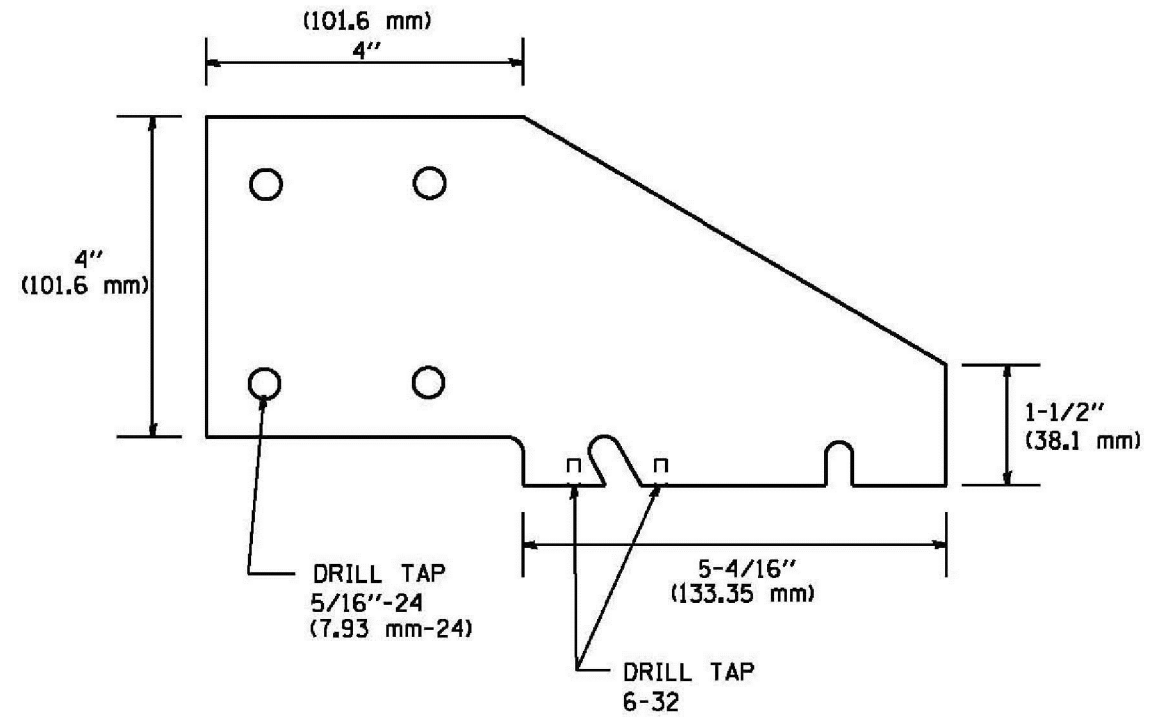
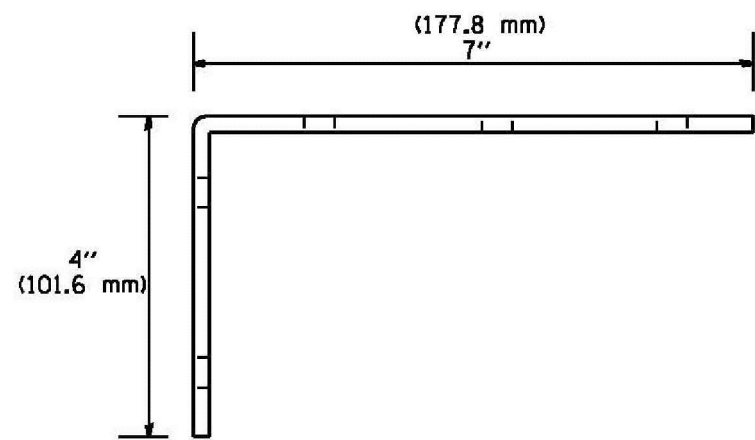
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIELD MOUNTING FRAME
WITH CRADLE ASSEMBLY

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			177	50a
FED. ROAD DIST. NO. (ILLINOIS FED. AID PROJECT)			CONTRACT NO.	

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



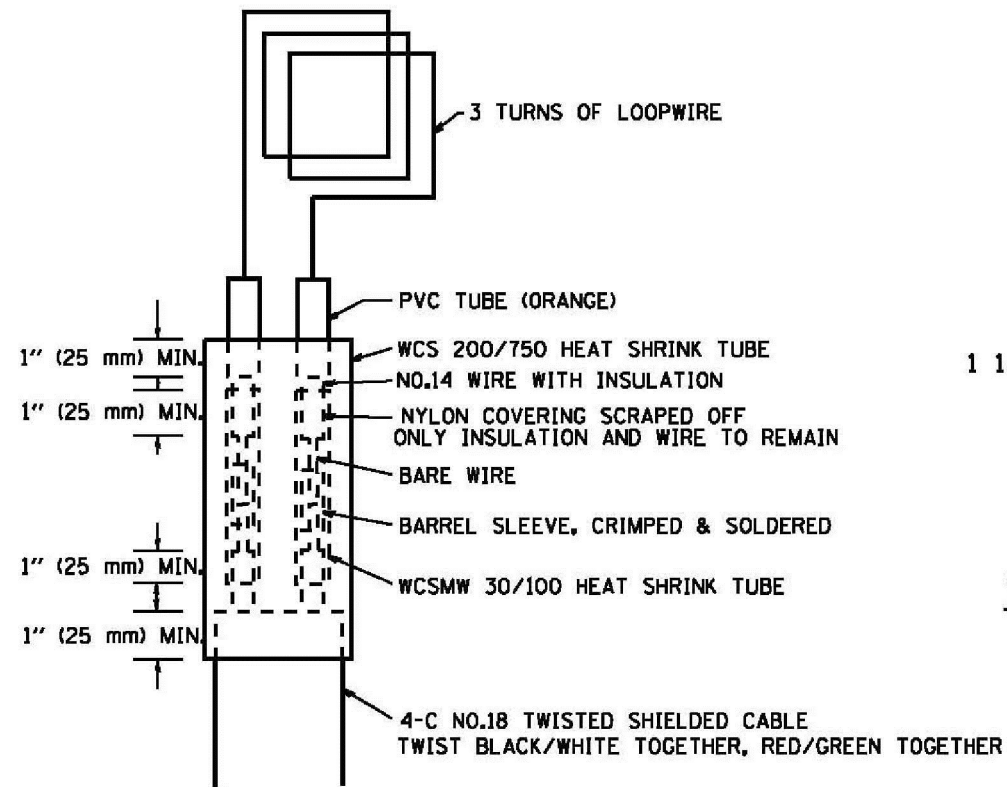
FILE NAME *	USER NAME * mseg	DESIGNED - RL	REVISED - 06/14
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Default	PLOT SCALE * 1/8"=1" / in.	CHECKED - RL	REVISED -
	PLOT DATE * 6/2/2014	DATE - 06/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			177	506
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

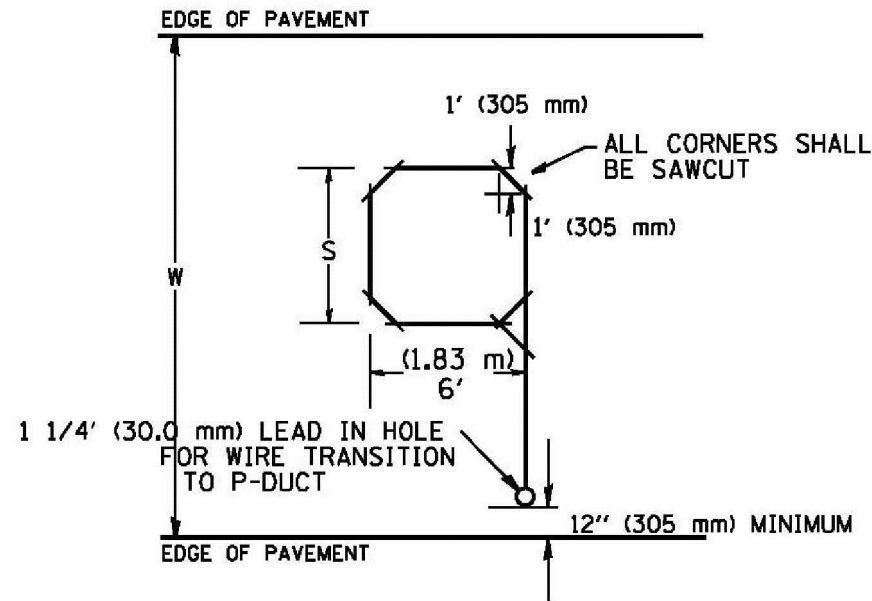
TRAFFIC SYSTEMS CENTER (TY-1TSC-400*7)



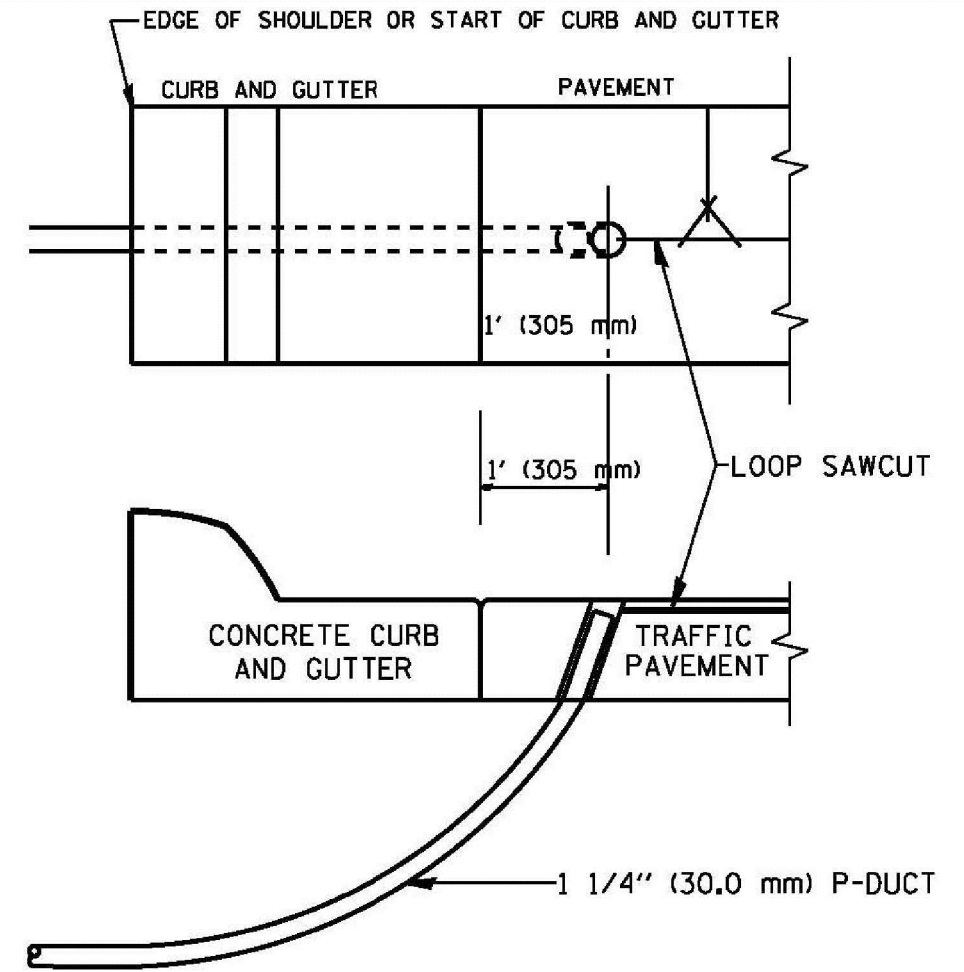
MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

LOOP SPLICING REQUIREMENTS

WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMPS



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 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 * mseg	DESIGNED - R.L.	REVISED - 6/94
ca\poc\work\poc\mseg\09267541\TSC1Y.dgn		DRAWN - G.M.	REVISED - 11/95
Default	PLOT SCALE * 1/8"=1'-0"	CHECKED - R.L.	REVISED - 05/96
	PLOT DATE * 6/2/2014	DATE - 6-22-94	REVISED - 10/96

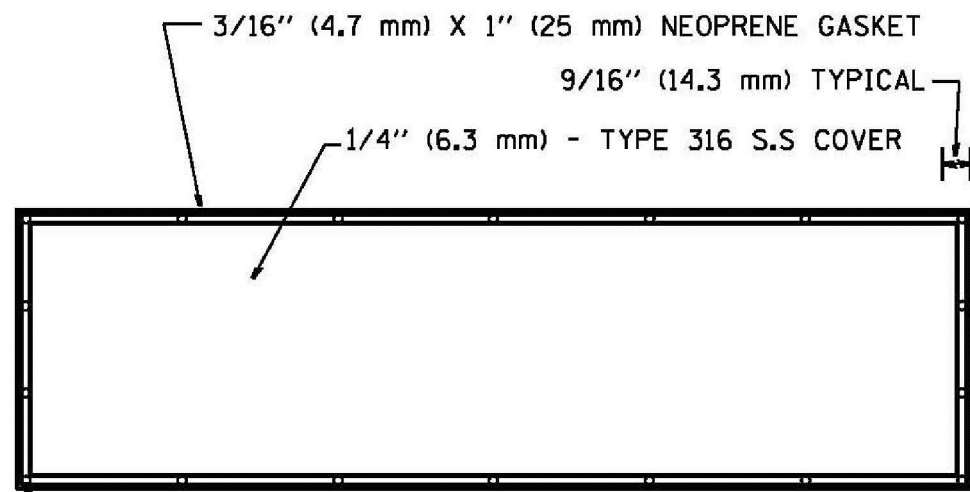
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

RECTANGULAR INDUCTION LOOP
TYPICAL

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			177	50c
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

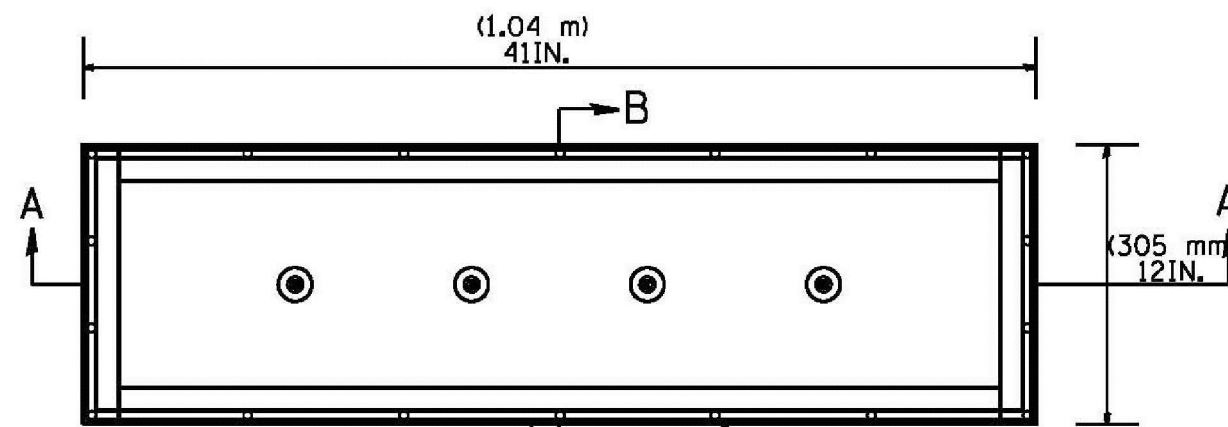
TRAFFIC SYSTEMS CENTER (TY-1TSC-418#3)



DRILL AND COUNTERSINK TOP OF COVER FOR
3/8" (9.5 mm) 16 X 3/4" (19 mm)
FLAT HEAD STAINLESS STEEL SLOTTED SCREWS

BACK VIEW

STAINLESS STEEL COVER WITH NEOPRENE GASKET



2.625 IN. (67 mm) DIA. FOR
2 IN. (50.0 mm) GS-CONDUIT

3/8 IN. (9.5 mm)-16 TAP

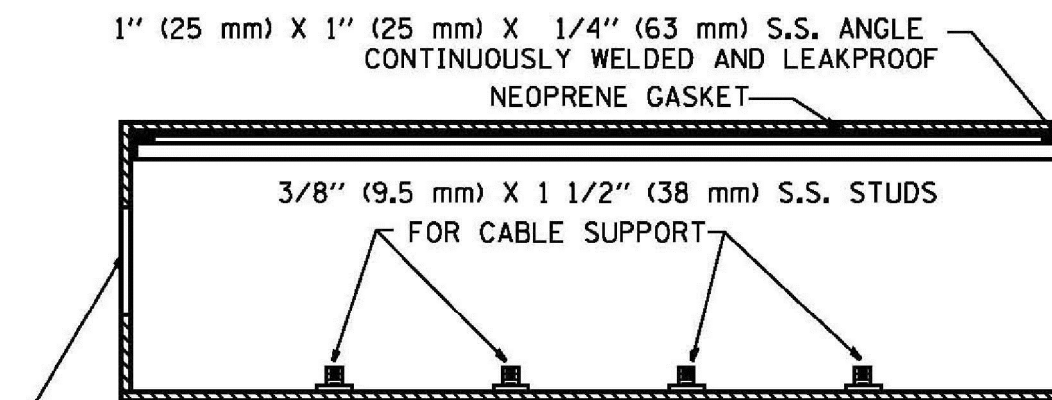
TOP VIEW

STAINLESS STEEL JUNCTION BOX TYPE "J"



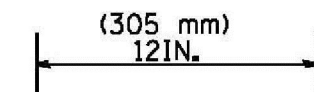
SIDE VIEW

STAINLESS STEEL COVER



4.625" (117 mm) DIA.
FOR 4" (100 mm) PVC DUCT

SIDE VIEW SECTION A-A



WELDED SEAMS (TYP.)
2.625 IN. (67 mm) DIA. HOLE

SIDE VIEW SECTION B-B

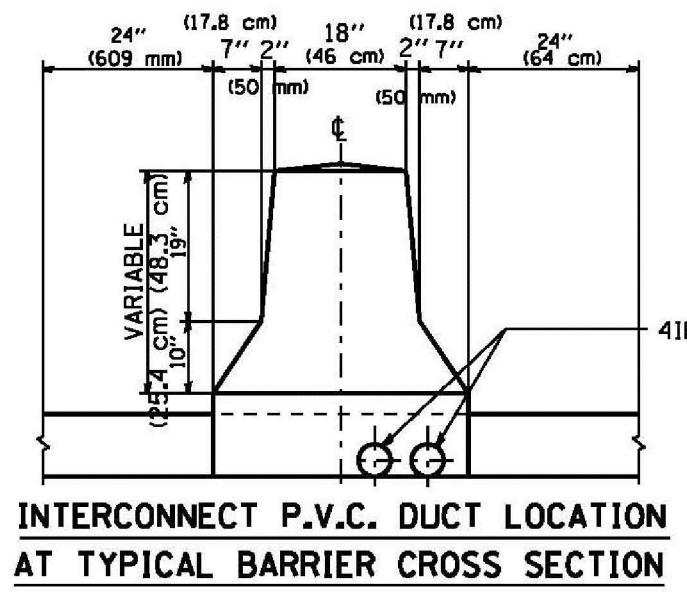
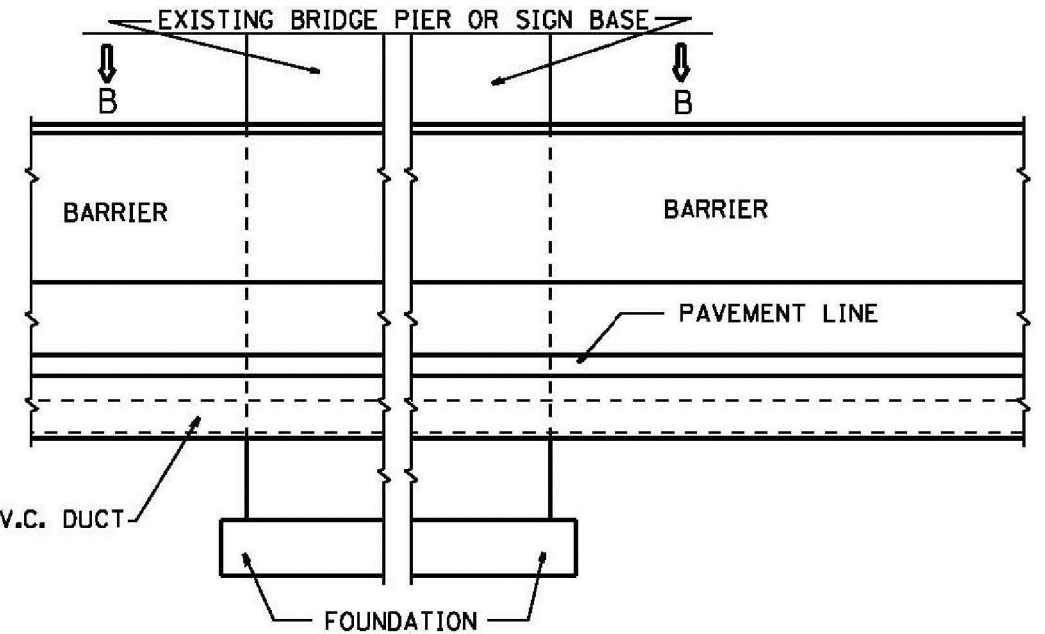
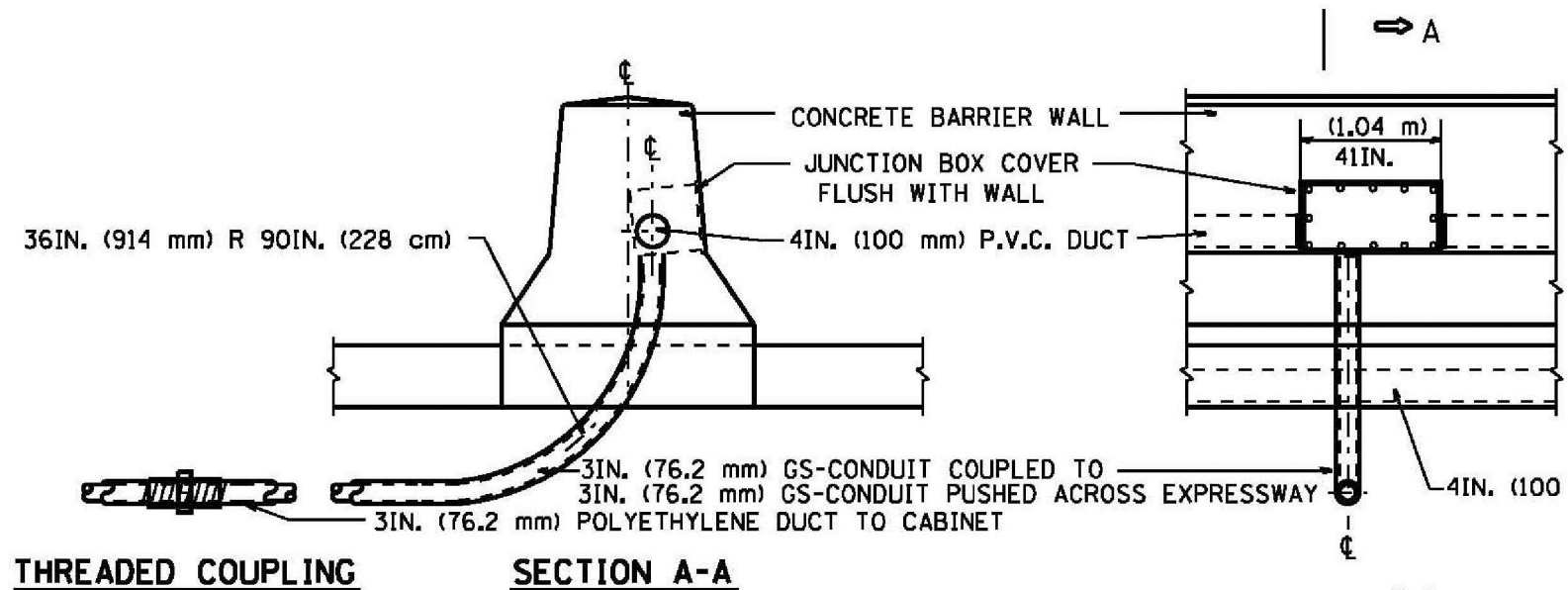
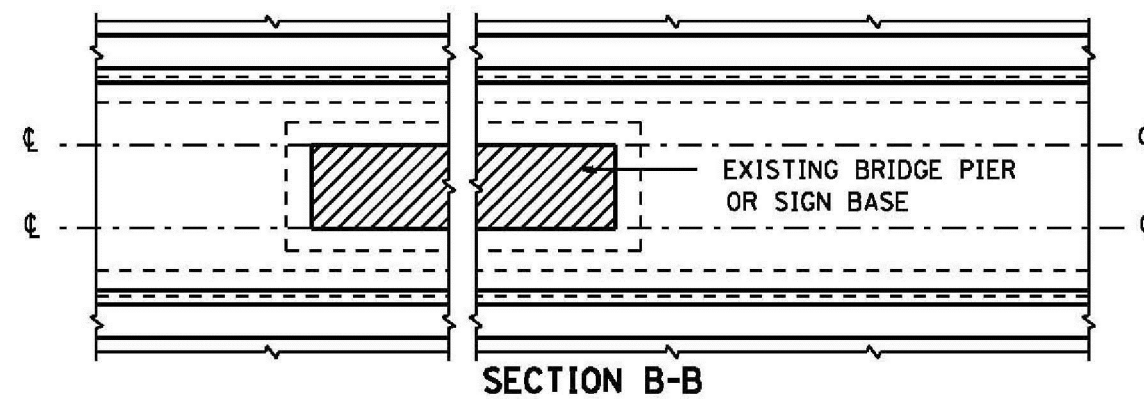
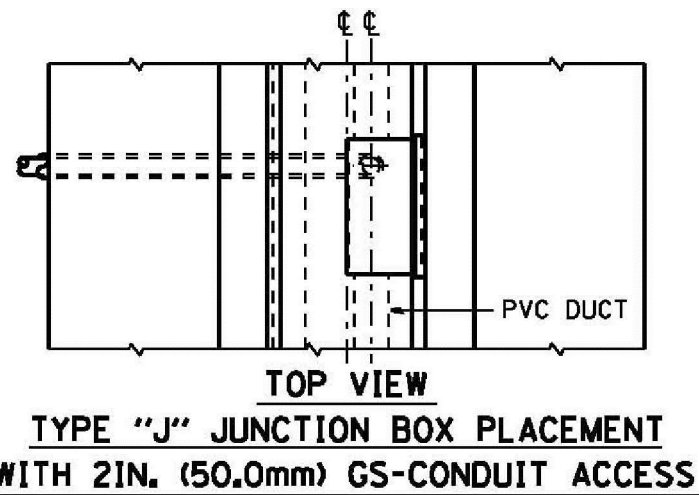
NOTE:

JUNCTION BOX TO BE CONSTRUCTED OF
1/4 IN. (6.3 mm) TYPE 316 STAINLESS STEEL
ALL WELDS SHALL BE CONTINUOUS AND LEAKPROOF
ALL COVERS SHALL BE UNIVERSAL IN FIT.

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.

FILE NAME *	USER NAME * mscg	DESIGNED - R.L.	REVISED - 06/14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	CONCRETE BARRIER WALL JUNCTION BOX TYPE "J"	SCALE: NONE	SHEET OF SHEETS STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\poc\work\p10101\mscg\08267541\TSC1YP.dgn	DRAWN - G.M.	REVISED - 10/16								177	504	
Default	CHECKED - R.L.	REVISED -										
	DATE - 06/22/14	REVISED -										

TRAFFIC SYSTEMS CENTER (TY-1TSC-663*1)

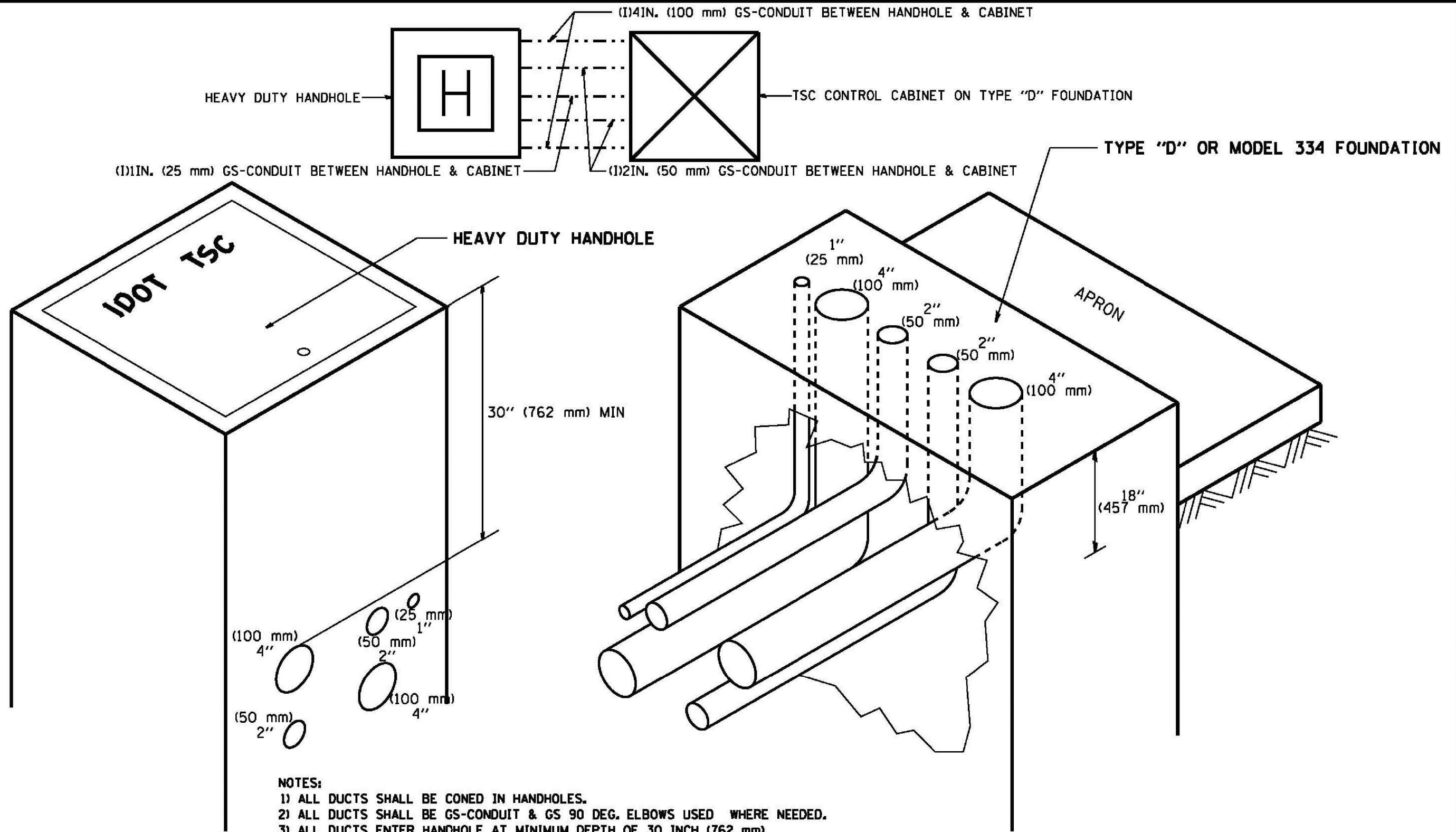


TYPE "J" JUNCTION BOX PLACEMENT WITH 2IN. (50.0 mm) GS-CONDUIT ACCESS
 (SEE NOTE NO. 1)

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.

FILE NAME *	USER NAME * mseg	DESIGNED - R.L.	REVISED - 05/14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TYPE "J" JUNCTION BOX & P.V.C. DUCT PLACEMENT	SCALE: NONE	SHEET OF SHEETS STA. TO STA.	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLT SCALE * 1/8"=1'-0" / in.	DRAWN - G.M.	REVISED - 10/16					177	506			
	PLOT DATE * 6/2/2014	CHECKED - R.L.	REVISED -					CONTRACT NO.				
		DATE - 06/22/14	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- 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 1 IN. (25 mm) GSC FROM HANDHOLE TO CABINET.
 - 11) TYPE "D" FOUNDATION SHALL BE 18" FROM TOP OF FOUNDATION TO FINISHED GRADE.

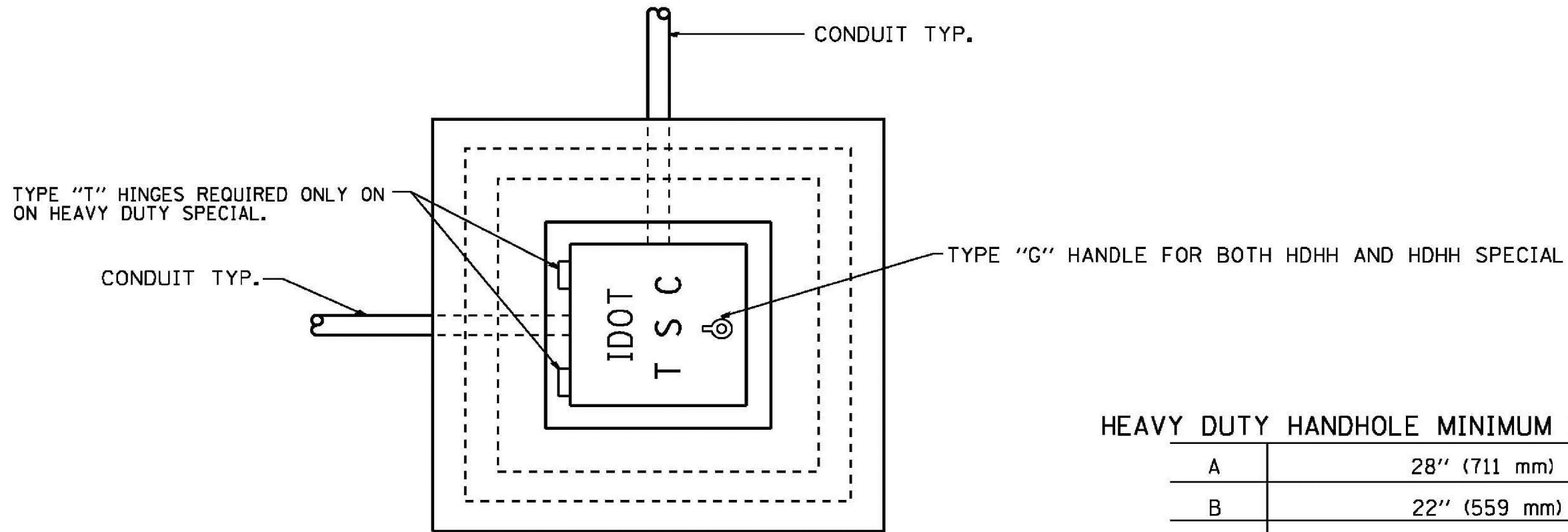
FILE NAME *	USER NAME * mseg	DESIGNED - R.L.	REVISED - 09/98
ca:\pwork\p\idot\mseg\09087541\TSC1Y.dgn		DRAWN - G.M.	REVISED - 03/99
Default	PLOT SCALE * 1/8"=1'-0" / in.	CHECKED - R.L.	REVISED - 04/99
	PLOT DATE * 6/2/2014	DATE - 06/05/98	REVISED - 07/2010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

CABINET - HANDHOLE CONDUIT DETAIL		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET OF	SHEETS STA.	TO STA.	CONTRACT NO.		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			177	501
CONTRACT NO.				

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#11)



PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

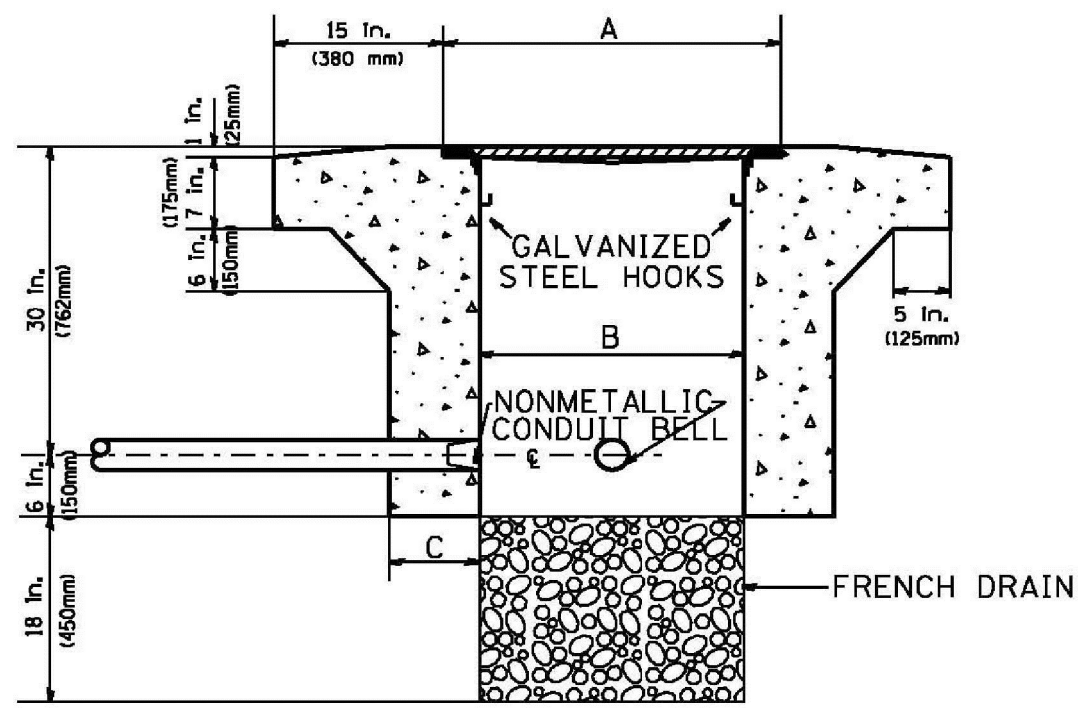
A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

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

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

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

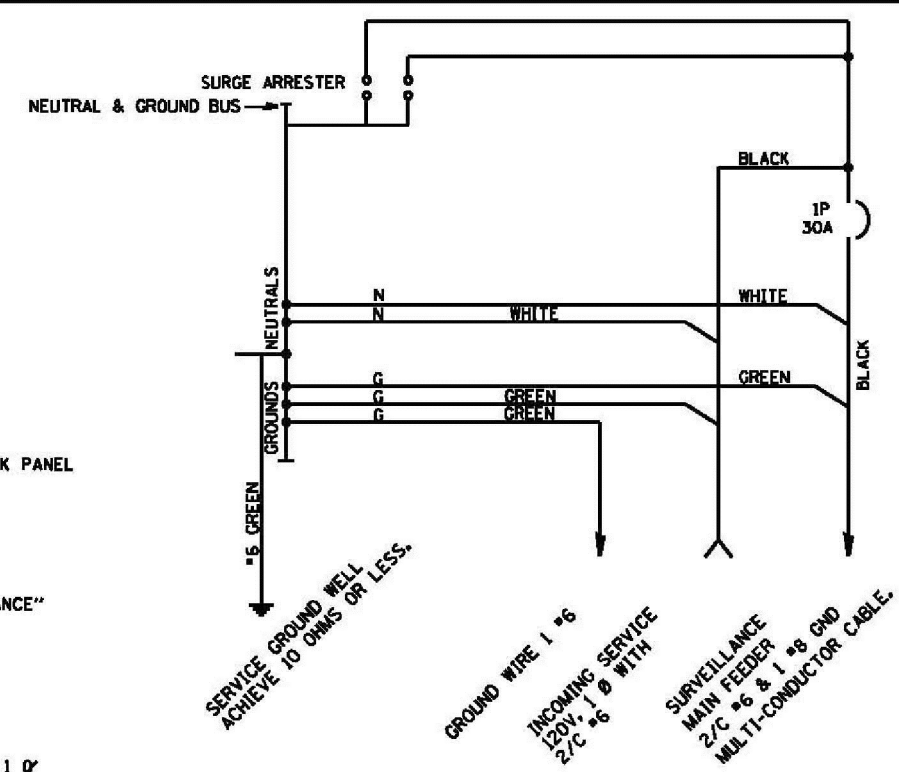
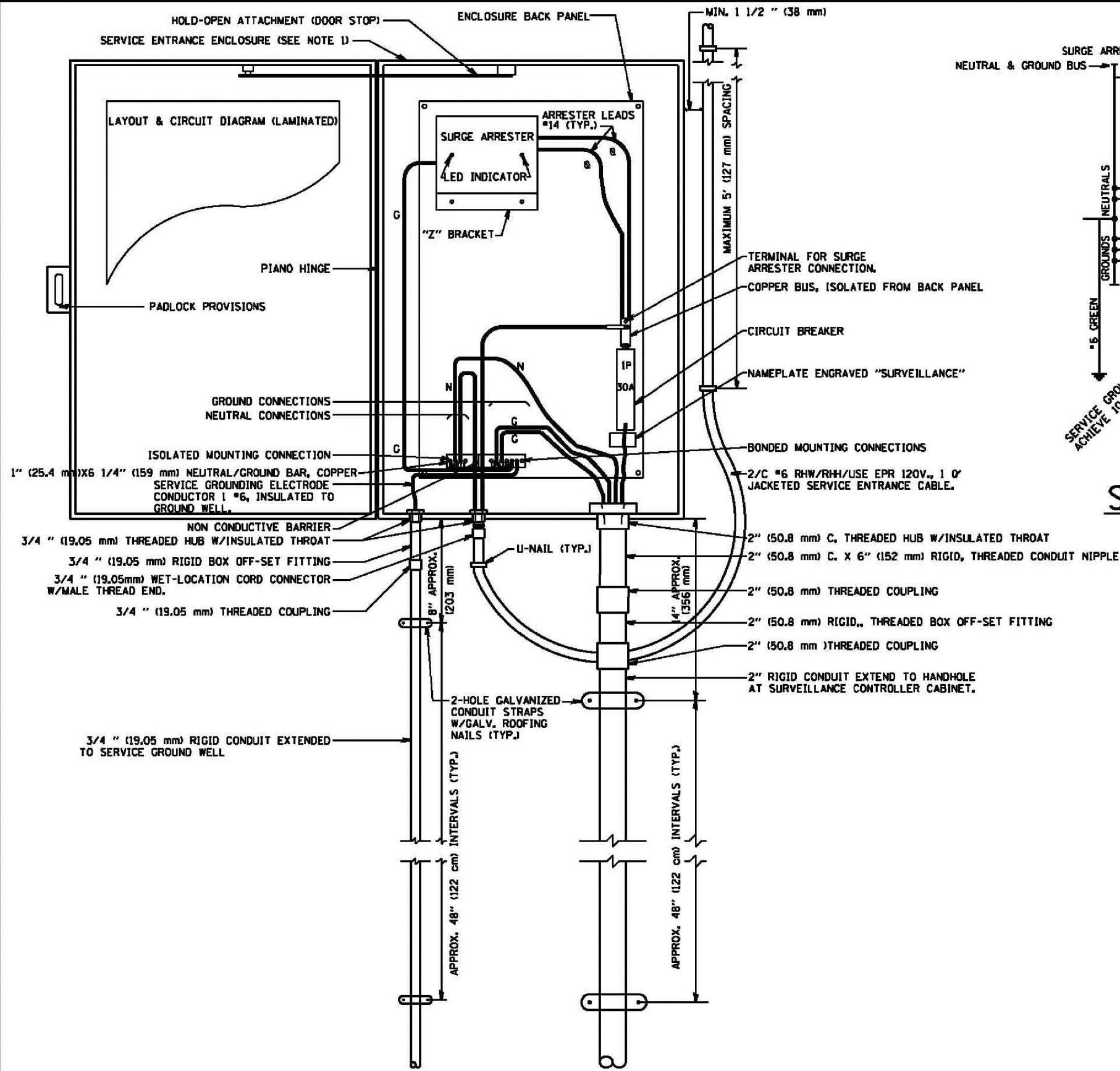
(FRAME AND COVER 405 LBS. (184 Kg. (405))



ELEVATION

PC CONCRETE - HEAVY DUTY HAND HOLE

FILE NAME *	USER NAME * mscg	DESIGNED - R.L.	REvised - 04/17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PC CONCRETE - HEAVY DUTY HAND HOLE	SCALE: NONE	SHEET OF SHEETS STA. TO STA.	FA	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwork\pc\idot\mcszg\09267541\TSC1Y.dgn	PLot SCALE * 1/8"=1'-0" / in.	DRAWN - G.M.	REvised -								177	50g
Default	PLot DATE * 6/2/2014	CHECKED - R.L.	REvised -					CONTRACT NO.				
		DATE - 04/11/16	REvised -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



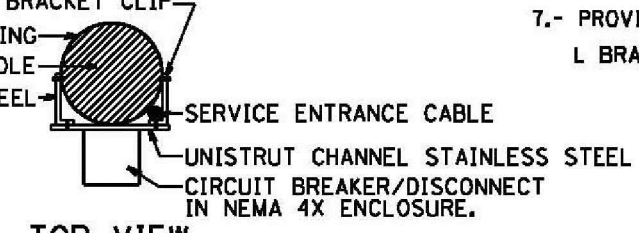
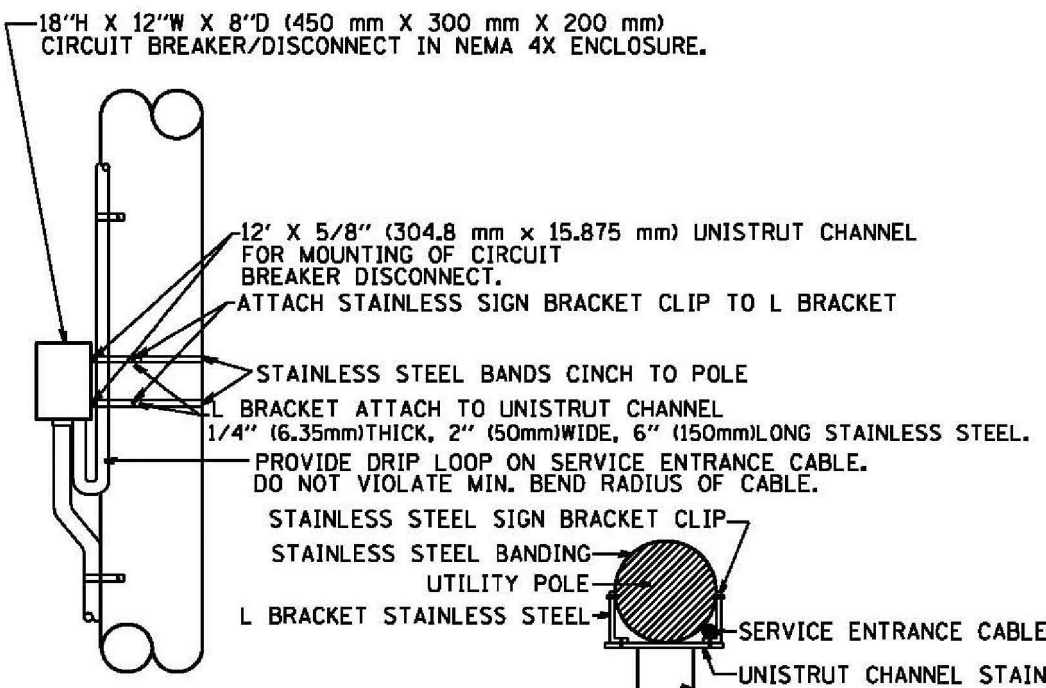
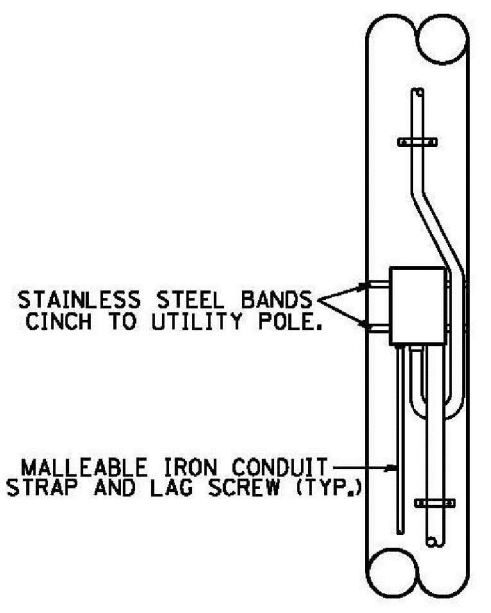
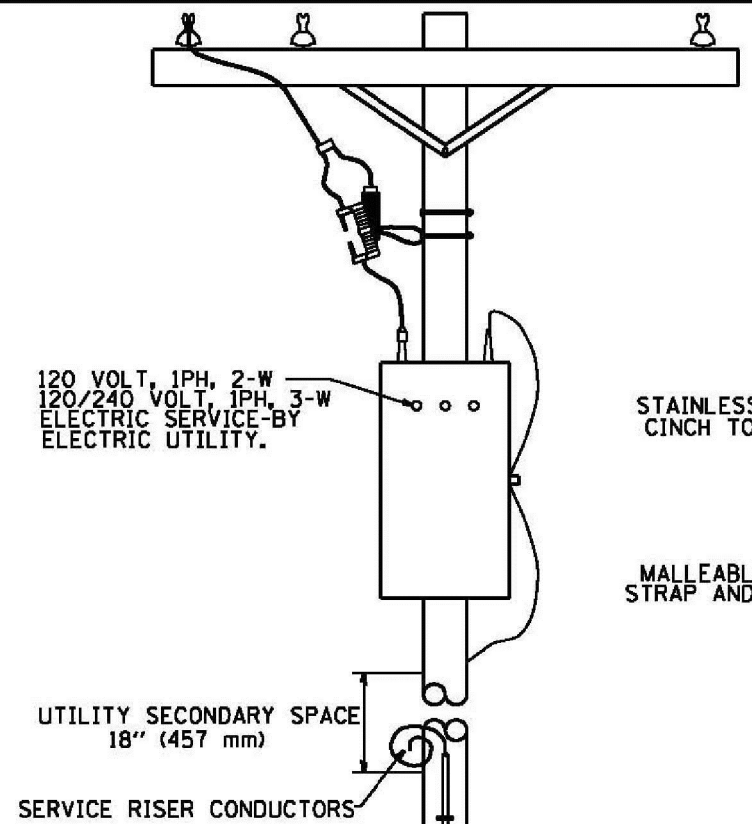
- NOTES:**
- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED, WHERE 120-VOLT SERVICE IS INDICATED, SERVICE DROP CABLE SHALL BE INSTALLED ACCORDINGLY AND LIGHTING MAIN FEEDER CABLE SHALL BE OMITTED.
 - THE ELECTRIC SERVICE BOX SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" (305 mm) X 18" (457 mm) X 8" (203 mm), WITH PIANO HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS, DOOR STOP KIT AND STEEL BACK PANEL, HOFFMAN CATALOG A-16H120BSSGLP/A-16P2/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
 - THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LABELED, SUITABLE FOR USE AS SERVICE EQUIPMENT.
 - CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 - THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF >3600 JOULES OR BETTER AT 8/20 MICROSECONDS, RATED -40 TO 65 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV 230L065XST OR APPROVED EQUAL. SURGE PROTECTOR SHALL BE WIRED FOR 120 V SERVICE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.
 - BUS BARS, CONNECTORS AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS.
 - THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN, THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE.
 - A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE AFFIXED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 - A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 - PROVIDE ON LAYOUT AND CIRCUIT DIAGRAM A BILL OF MATERIALS USED WITH CATALOG NUMBERS.
 - REFER TO T.S.C. TYPICAL DRAWING TY-1TSC-400*20 FOR POLE MOUNTED DISCONNECT MOUNTING DETAILS.

FILE NAME *	USER NAME * mseg	DESIGNED - R.L.	REVISED - 03/01/99
ca:\pwork\poides\mseg\09267541\TSC1Y.dgn		DRAWN - D.M.	REVISED - 03/28/99
Default	PLOT SCALE * 1/8"=1'-0" / in.	CHECKED - R.L.	REVISED - 04/99
	PLOT DATE * 6/2/2014	DATE - 02/24/99	REVISED - 04/12/99 Δ

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

DISTRICT 1		F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SURVEILLANCE POLE-MOUNTED					177	501
ELECTRIC SERVICE BOX DETAIL		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO.	
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400*19)



FRONT VIEW

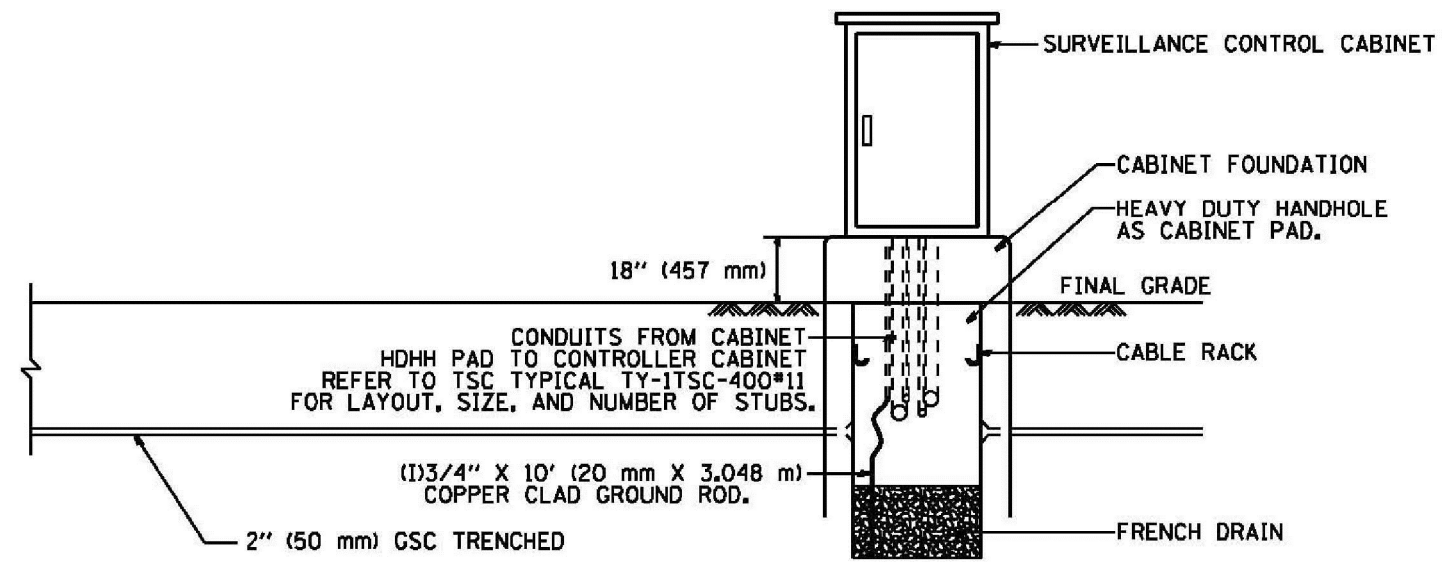
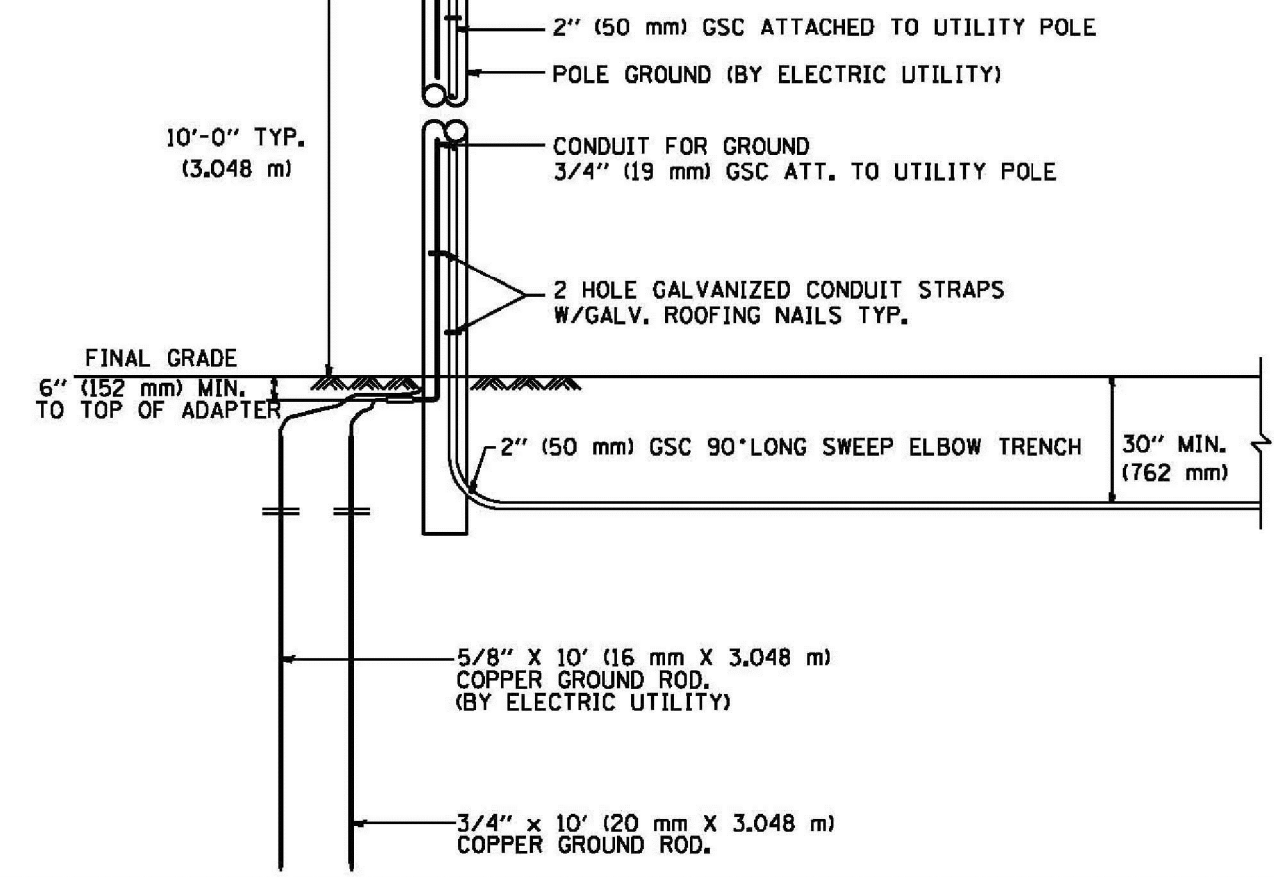
SIDE VIEW

TOP VIEW

NTS
DISCONNECT MOUNTING DETAIL

NOTES:

- 1.- ALL CONDUIT BUSHINGS SHALL HAVE AN ISOLATED THROAT.
- 2.- PROVIDE HEAT SHRINK BOOT AT THE TOP OF THE SERVICE ENTRANCE CABLE FOR MOISTURE PROOFING.
- 3.- ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC UNLESS OTHERWISE NOTED.
- 4.- ATTACH INCOMING ELECTRIC SERVICE CABLE TO UTILITY POLE EVERY 5 FEET USING INSULATED U-NAIL.
- 5.- PROVIDE CABLE RACK IN HANDHOLES.
- 6.- ALL CONDUCTORS SHALL BE COPPER.
- 7.- PROVIDE STAINLESS STEEL HARDWARE TO ATTACH L BRACKETS TO UNISTRUT AND TO SIGN HANGER.



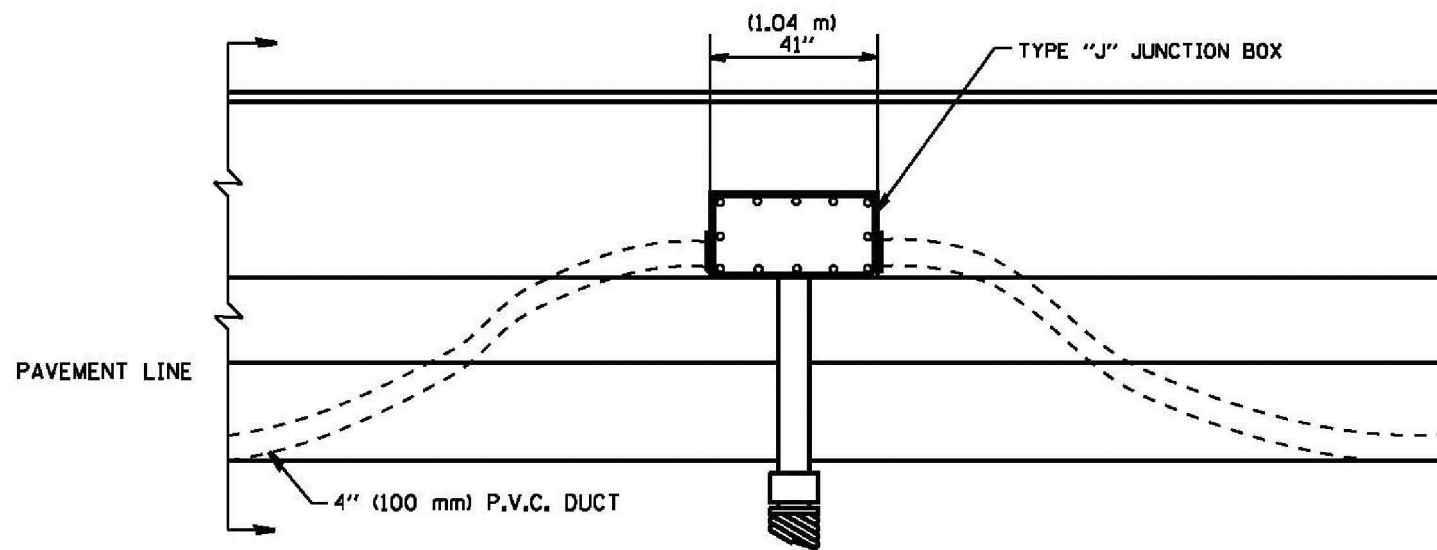
FILE NAME *	USER NAME * mseg	DESIGNED - RL	REVISED -
ca\poc\work\poc\mseg\09267541\TSC1Y.dgn		DRAWN - G.M.	REVISED -
Default	PLOT SCALE * 1/8"=1'-0" / in.	CHECKED - RL	REVISED -
	PLOT DATE * 6/2/2014	DATE - 03/28/99	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

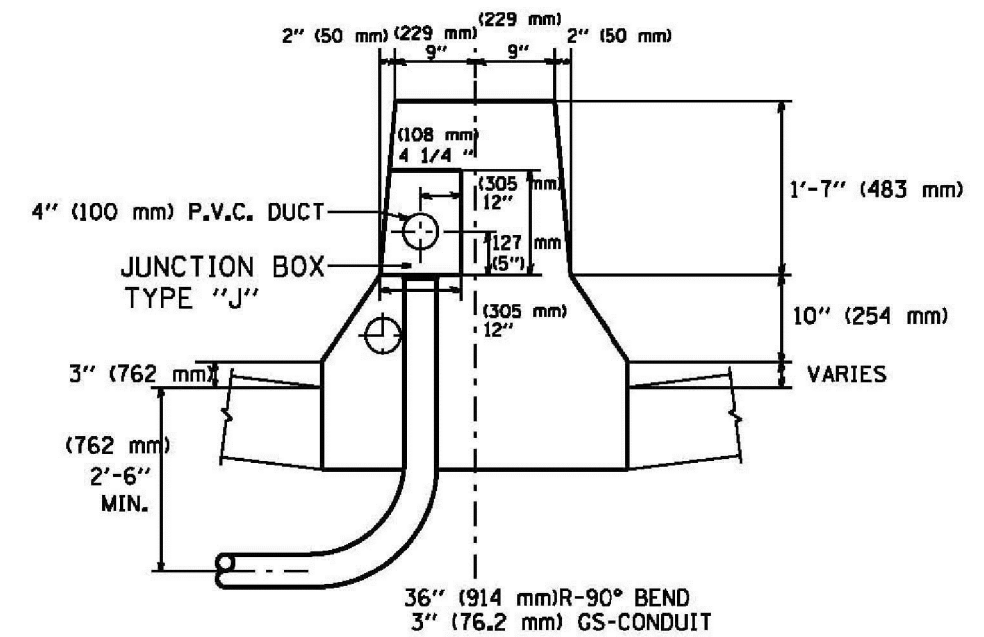
POLE MOUNTED DISCONNECT MOUNTING DETAILS			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			177	50
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

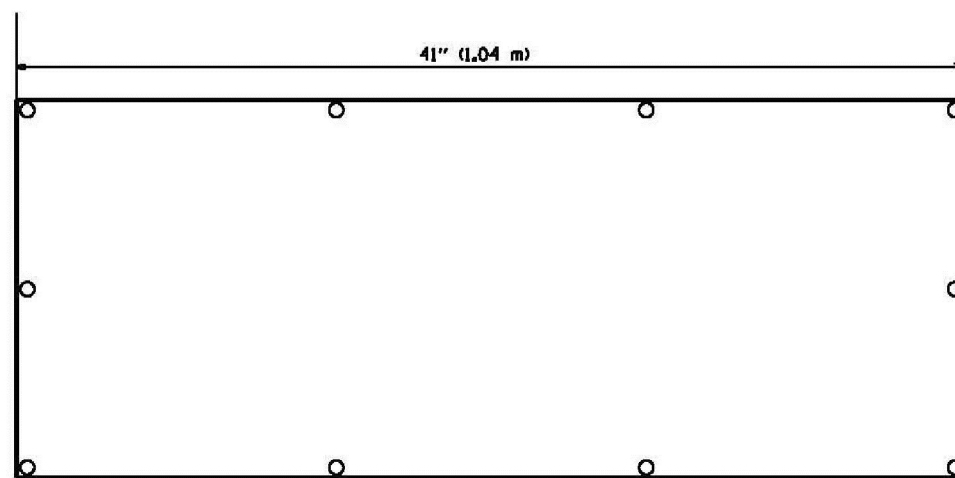
TRAFFIC SYSTEMS CENTER (TY-1TSC-400*20)



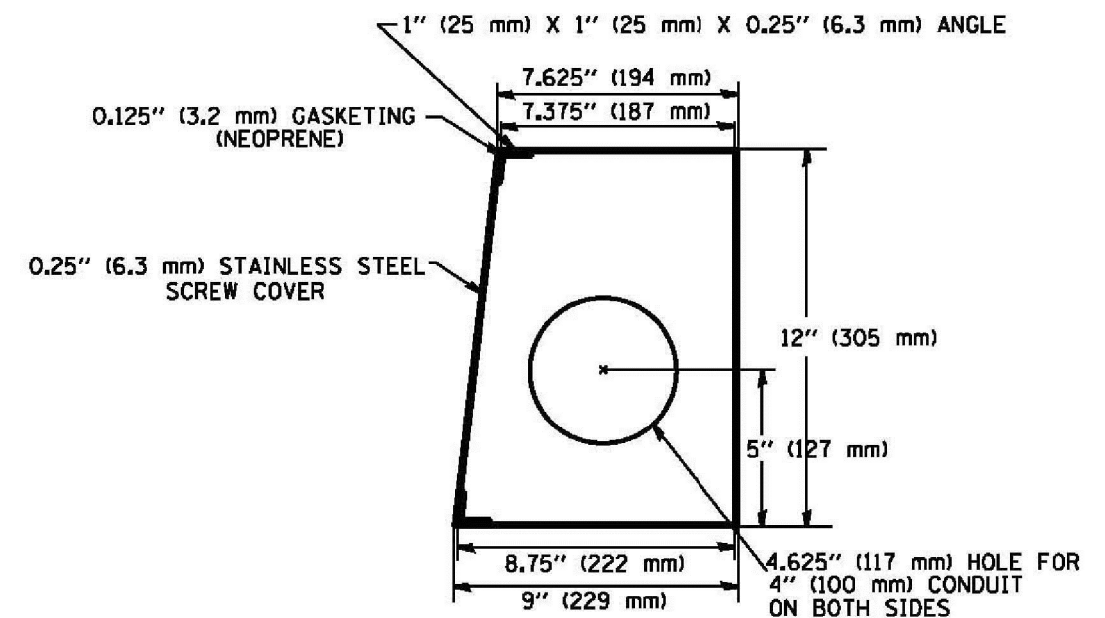
**ELEVATION
BARRIER WALL DUCT DETAIL**



DOUBLE FACED BARRIER WALL



FRONT VIEW



**SIDE VIEW
JUNCTION BOX TYPE "J"**

ALL WELDS SHALL BE CONTINUOUS AND LEAK PROOF
BOX AND COVER SHALL BE 0.25" (6.4 mm) TYPE 316 STAINLESS STEEL

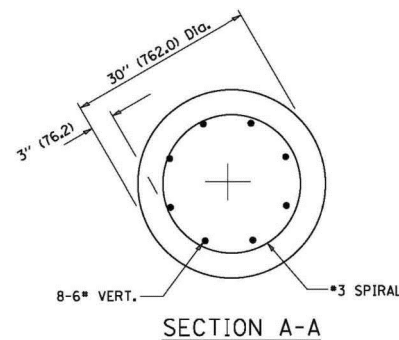
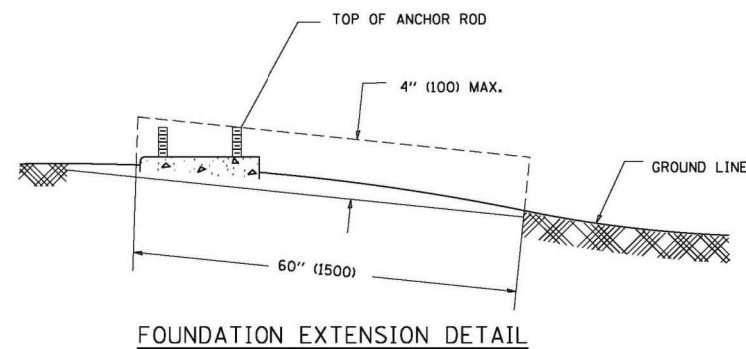
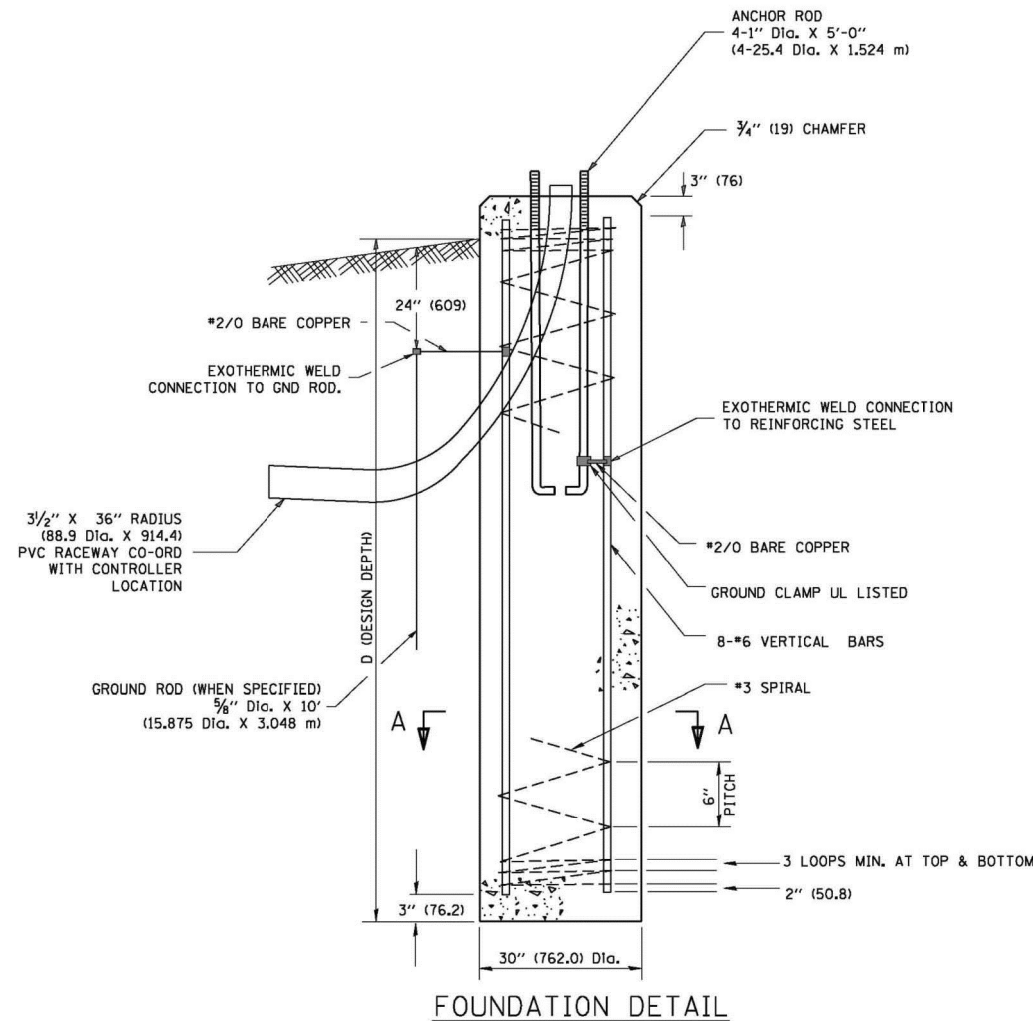
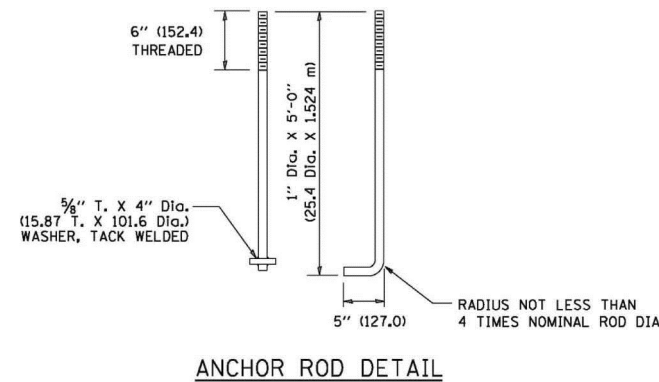
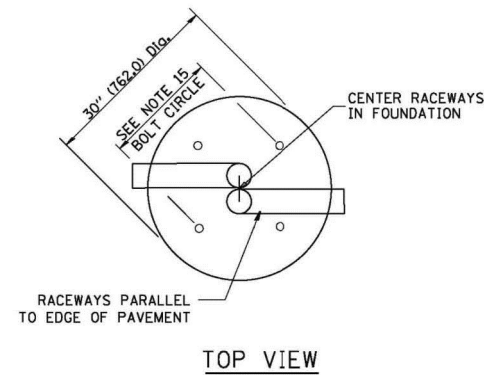
BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15' (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J"
AND FOR A SMOOTH TRANSITION OF 4" (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

FILE NAME *	USER NAME * mseg	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	JUNCTION BOX "TYPE J" IN DOUBLE FACED BARRIER WALL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ca\poc\work\poc\dot\mseg\040807541\TSC1Y.dgn		DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	177	506
Default		CHECKED - J.G.	REVISED -											
		DATE - 04-19-05	REVISED -											

TRAFFIC SYSTEMS CENTER (TY-1TSC-400*30)

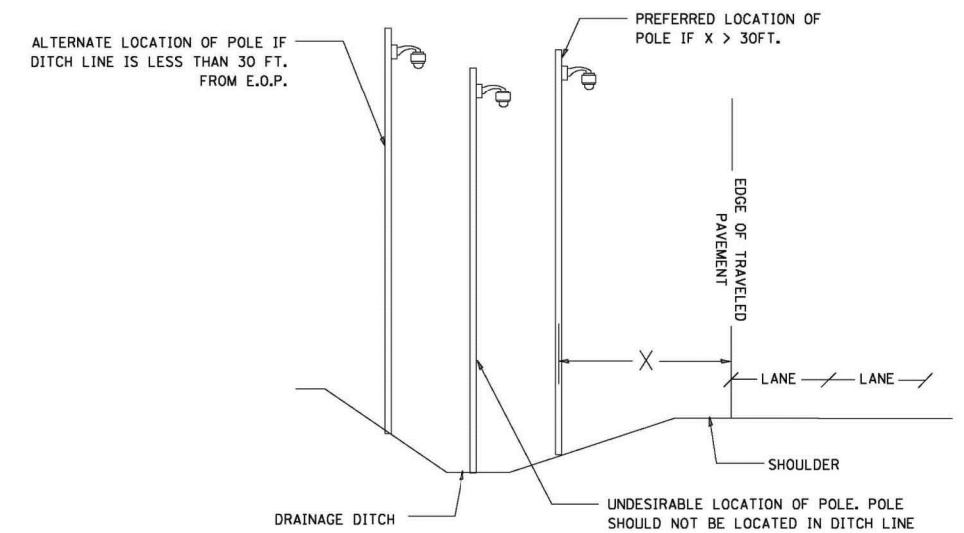
CCTV CAMERA POLE FOUNDATION DEPTH TABLE

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)

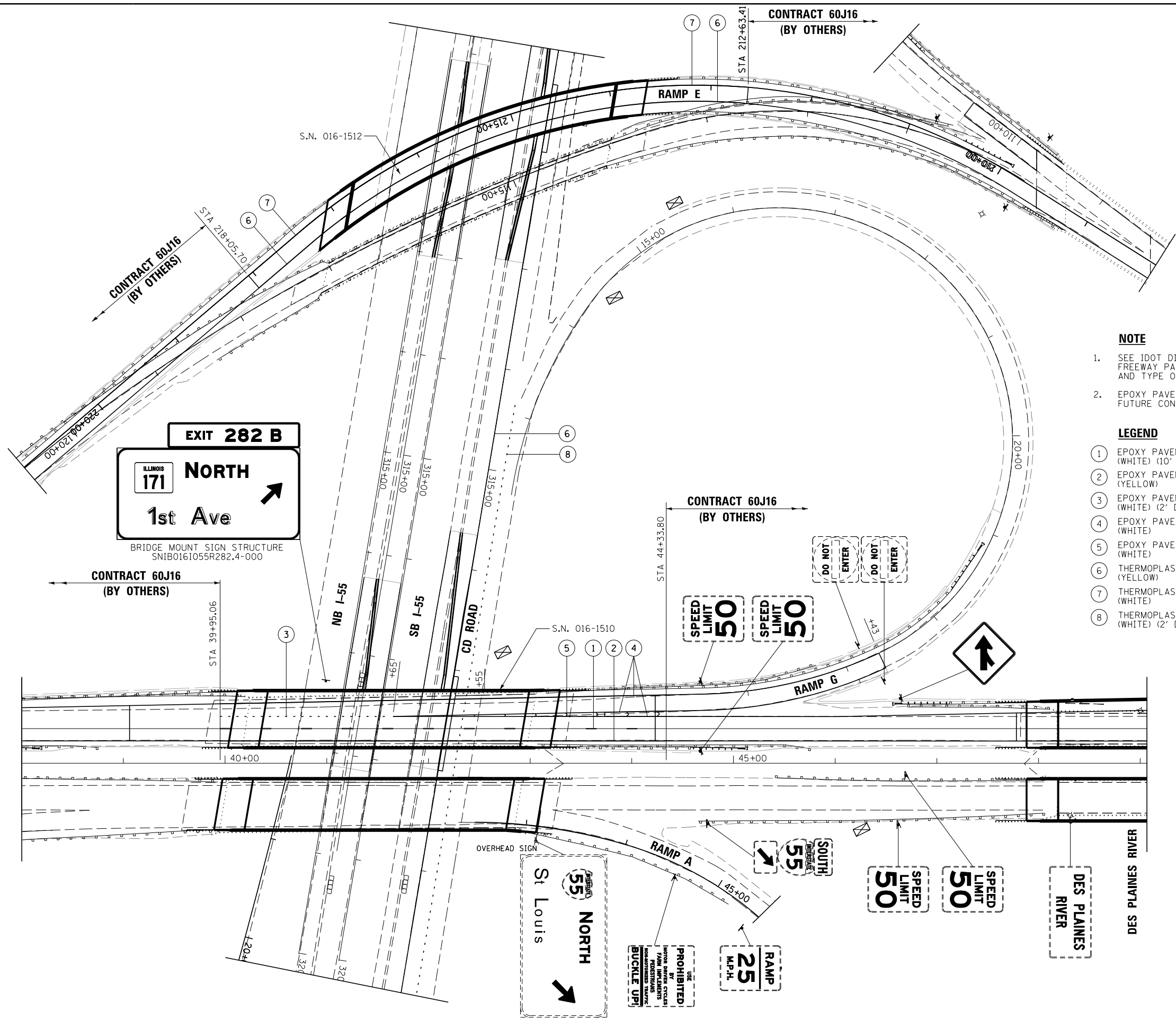
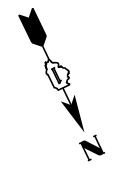


NOTES

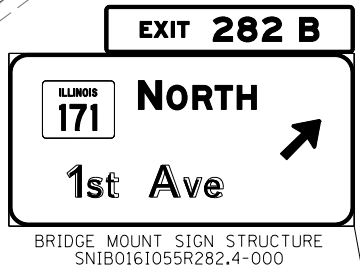
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, 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 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- ANCHOR ROD BOLT CIRCLE TO BE COORDINATED WITH CAMERA STRUCTURE



FILE NAME =	USER NAME = footemj	DESIGNED - TOMSONS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV CAMERA STRUCTURE FOUNDATION 50' (15 - 24m) MOUNTING HEIGHT			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pw\work\p\idat\footemj\d0108315\bel1001.dgn		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-1001	CONTRACT NO.	177	50m
PLOT SCALE = 50.0001" / in.		CHECKED -	REVISED -									
PLOT DATE = 4/3/2013		DATE - 03-11-13	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT		



- NOTE**
- SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS
 - EPOXY PAVEMENT MARKINGS TO BE USED FOR MOT IN FUTURE CONTRACTS 60W75 & 60W78.
- LEGEND**
- ① EPOXY PAVEMENT MARKING - LINE 4" (WHITE) (10' DASH, 30' SKIP)
 - ② EPOXY PAVEMENT MARKING - LINE 4" (YELLOW)
 - ③ EPOXY PAVEMENT MARKING - LINE 4" (WHITE) (2' DASH, 6' SKIP)
 - ④ EPOXY PAVEMENT MARKING - LINE 8" (WHITE)
 - ⑤ EPOXY PAVEMENT MARKING - LINE 12" (WHITE)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
 - ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (2' DASH, 6' SKIP)



FILE NAME =	DESIGNED - AAA	REVISED -
... \D160W77-sh1-IL171-SB-rampE-pmk-01.dgn	DRAWN - TMB	REVISED -
USER NAME = toddblank	CHECKED - JMM	REVISED -
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
SB IL 171 & RAMP E**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	51
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") ②

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

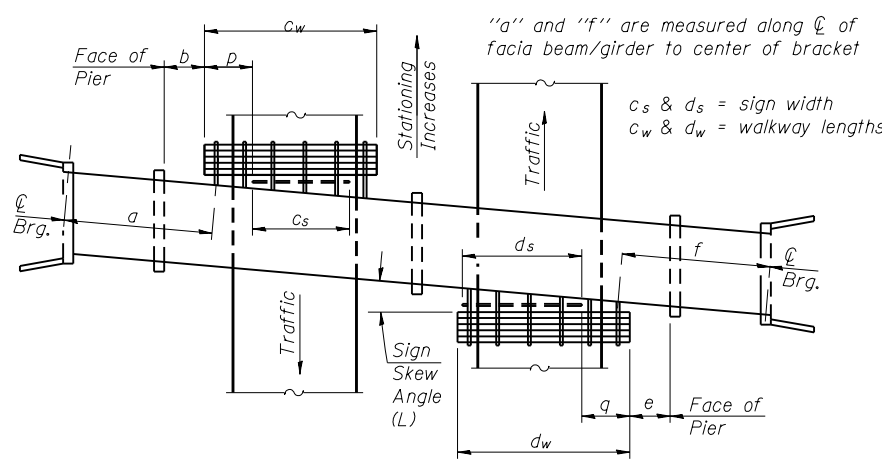
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

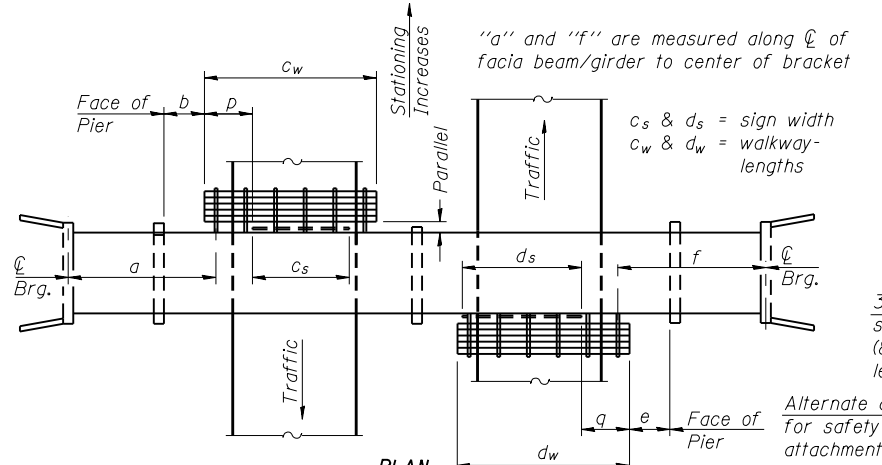
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

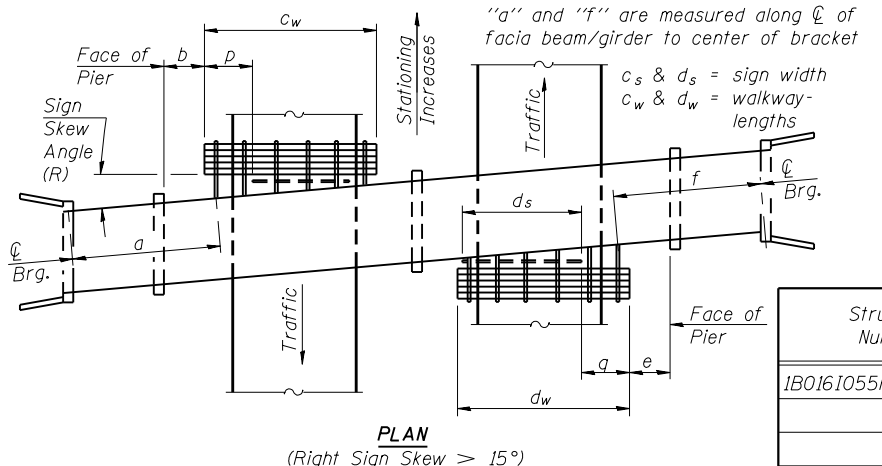
- ① Bracket spacing $g \leq 6'-0"$, max. Spacing shall be uniform if possible but may vary $\pm 6"$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- ② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- ③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- ④ If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.



PLAN
(Left Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)

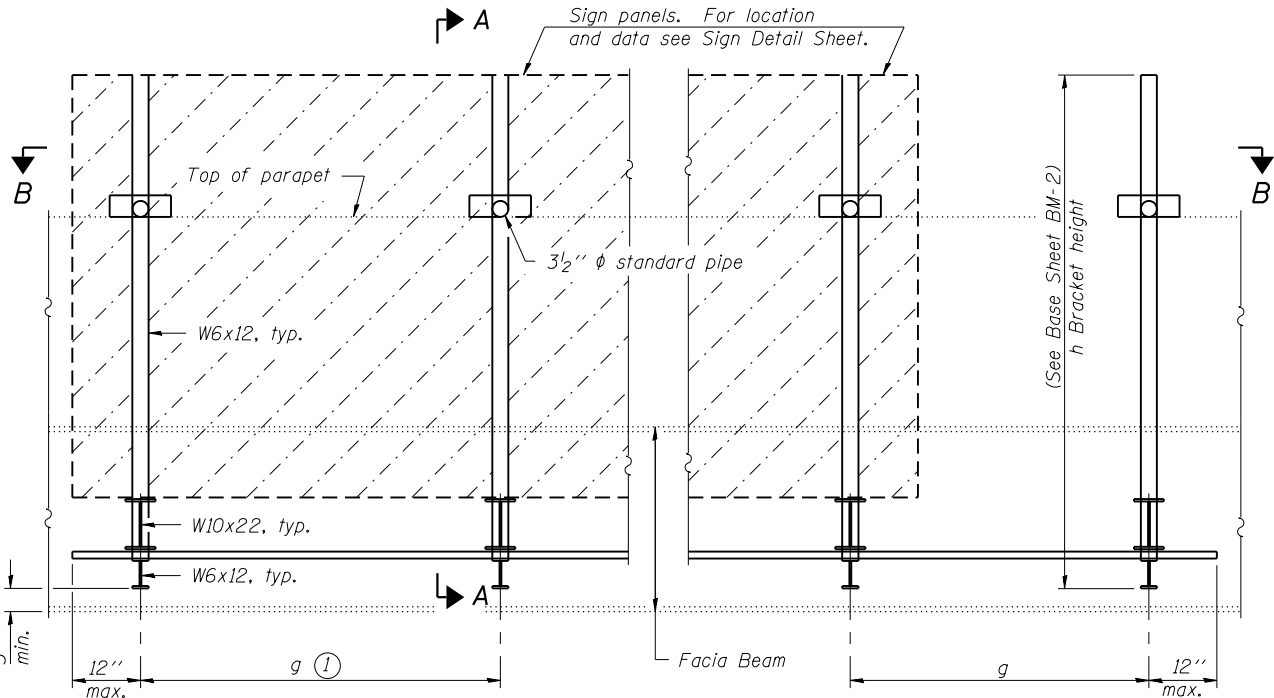


PLAN
(For Sign Skew $\leq 15^\circ$, all brackets constant)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)

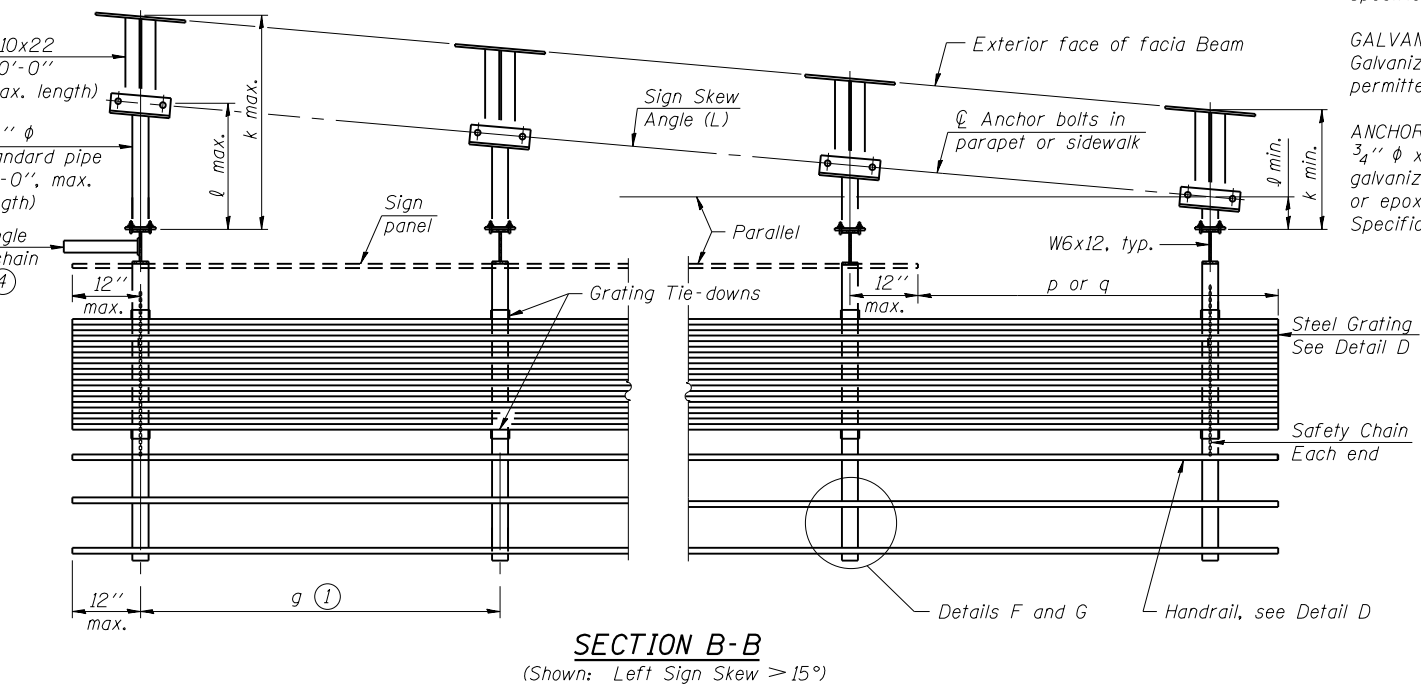


PLAN
(Right Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT.



TYPICAL FRONT ELEVATION
(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B
(Shown: Left Sign Skew > 15°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c _s	c _w	d _s	d _w	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndl. Lengths (c _w + d _w)
1B0161055R282.4-000	9°35'33" (R)	41+24.39	016-1510	SB IL-171					18.0'			33.60'	5.33'	4			

Dimensions a, b, e, f & g may vary as approved by the Engineer, see ①.
When c_w < c_s and/or d_w < d_s, use alternate brackets without walkway supports where applicable, see ③.

TOTAL BILL OF MATERIAL

③ OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	*16.0
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* Limit of payment is based on the center-to-center length between end brackets.

BM-1 6-1-12



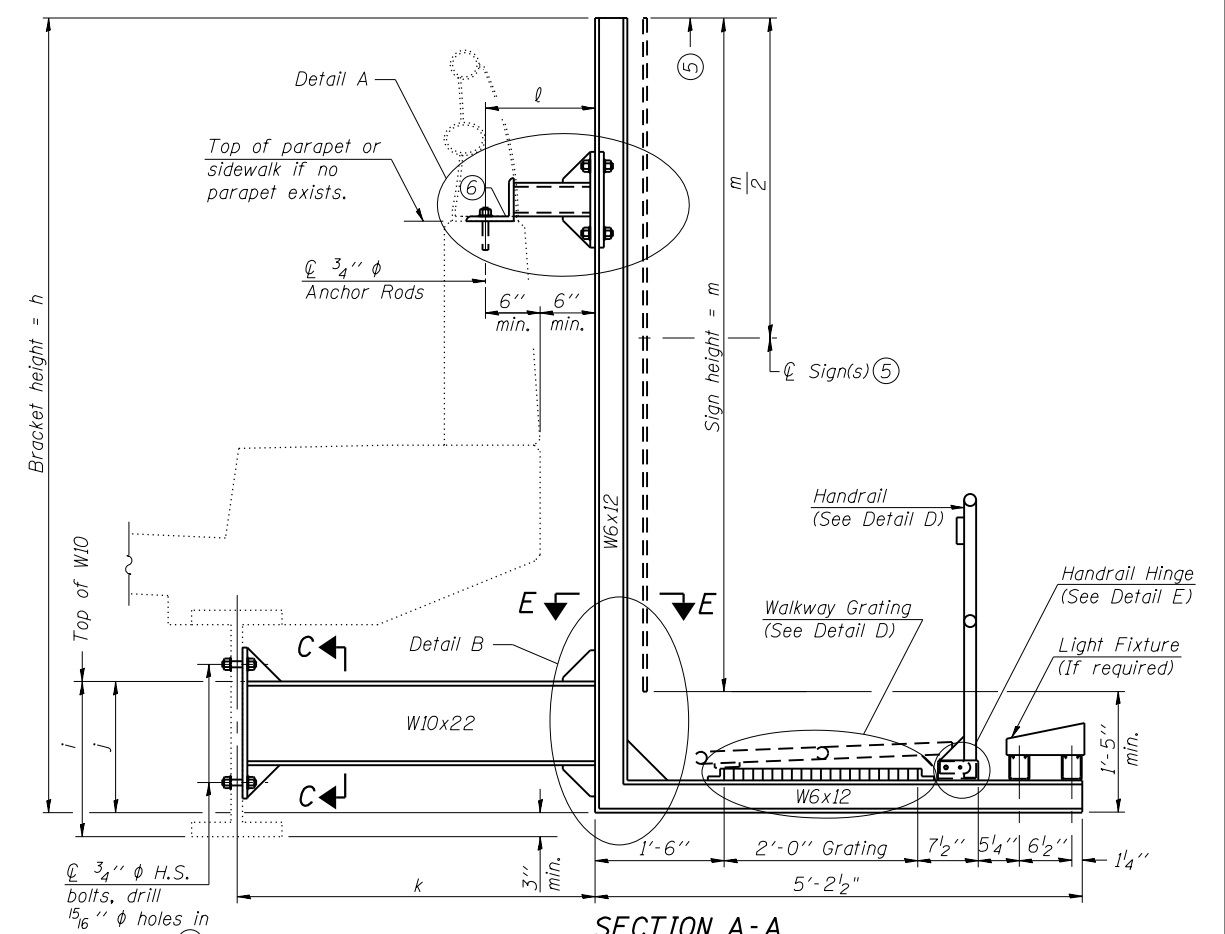
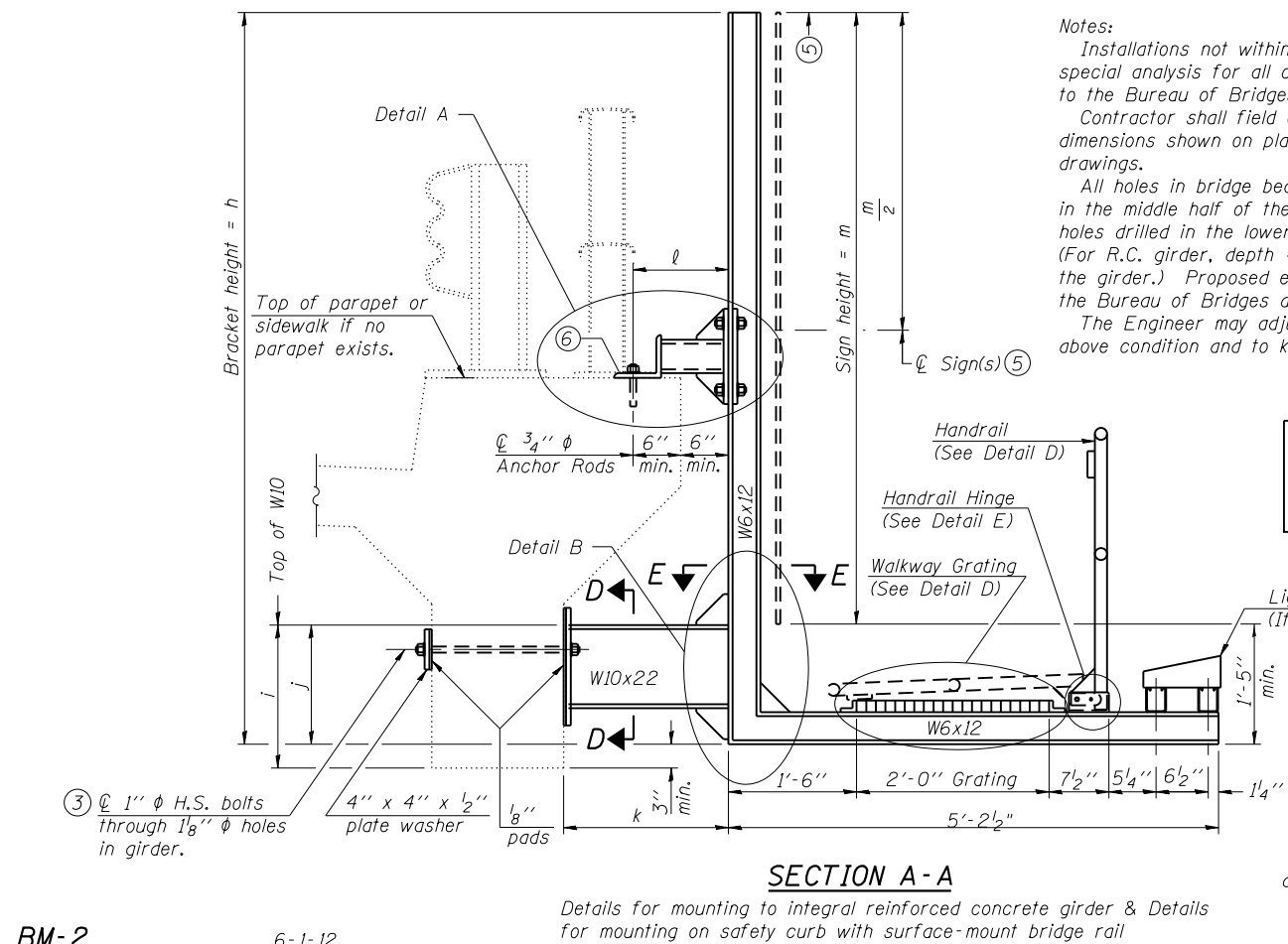
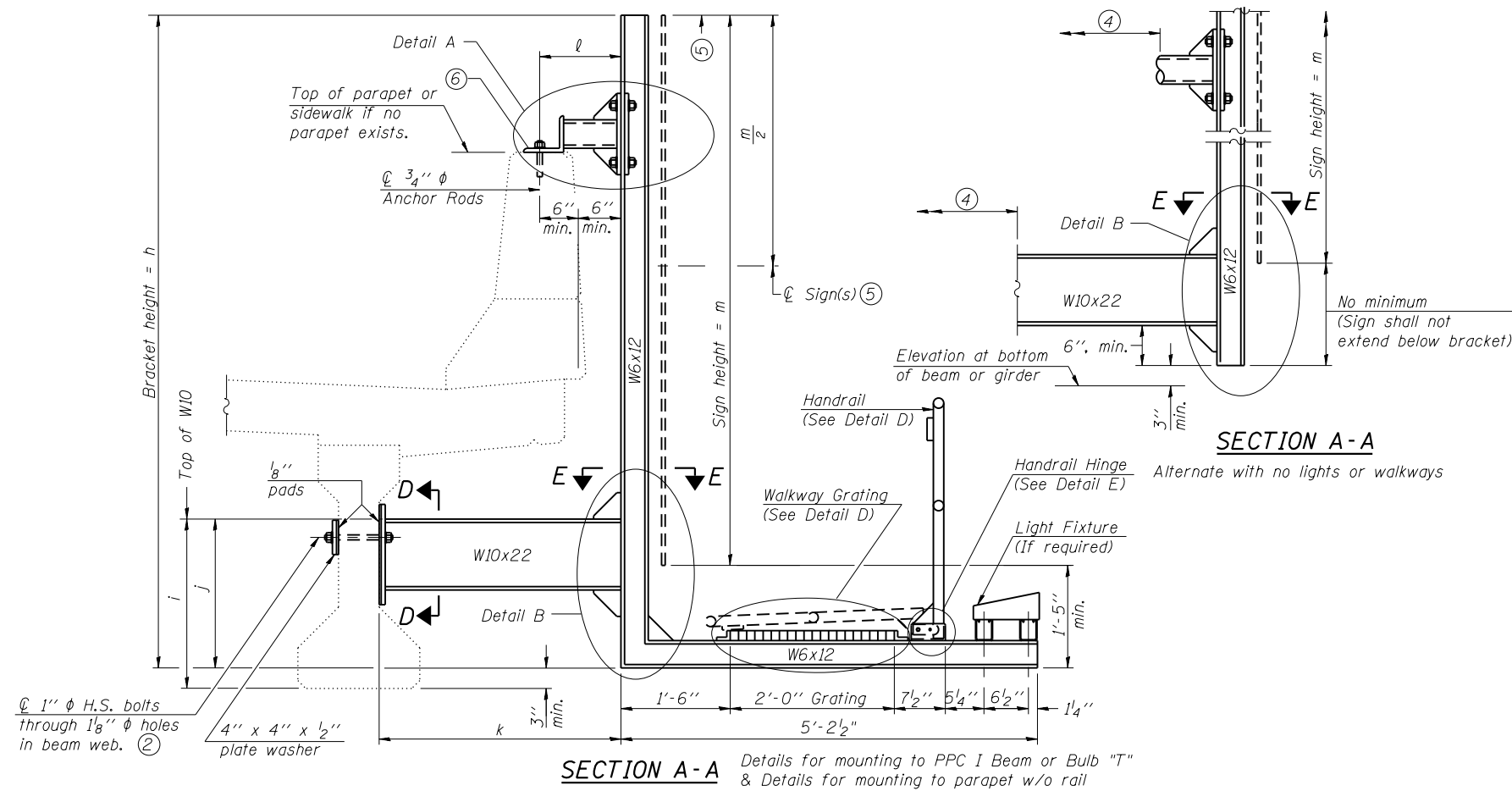
USER NAME =	DESIGNED - JJA	REVISED -
FILE NAME =	CHECKED - TBP	REVISED -
PLOT SCALE =	DRAWN - RPW	REVISED -
PLOT DATE = 06/23/2014	CHECKED - TBP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

SHEET NO. 1 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	10707-608&611HB-B	COOK	177	53
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				



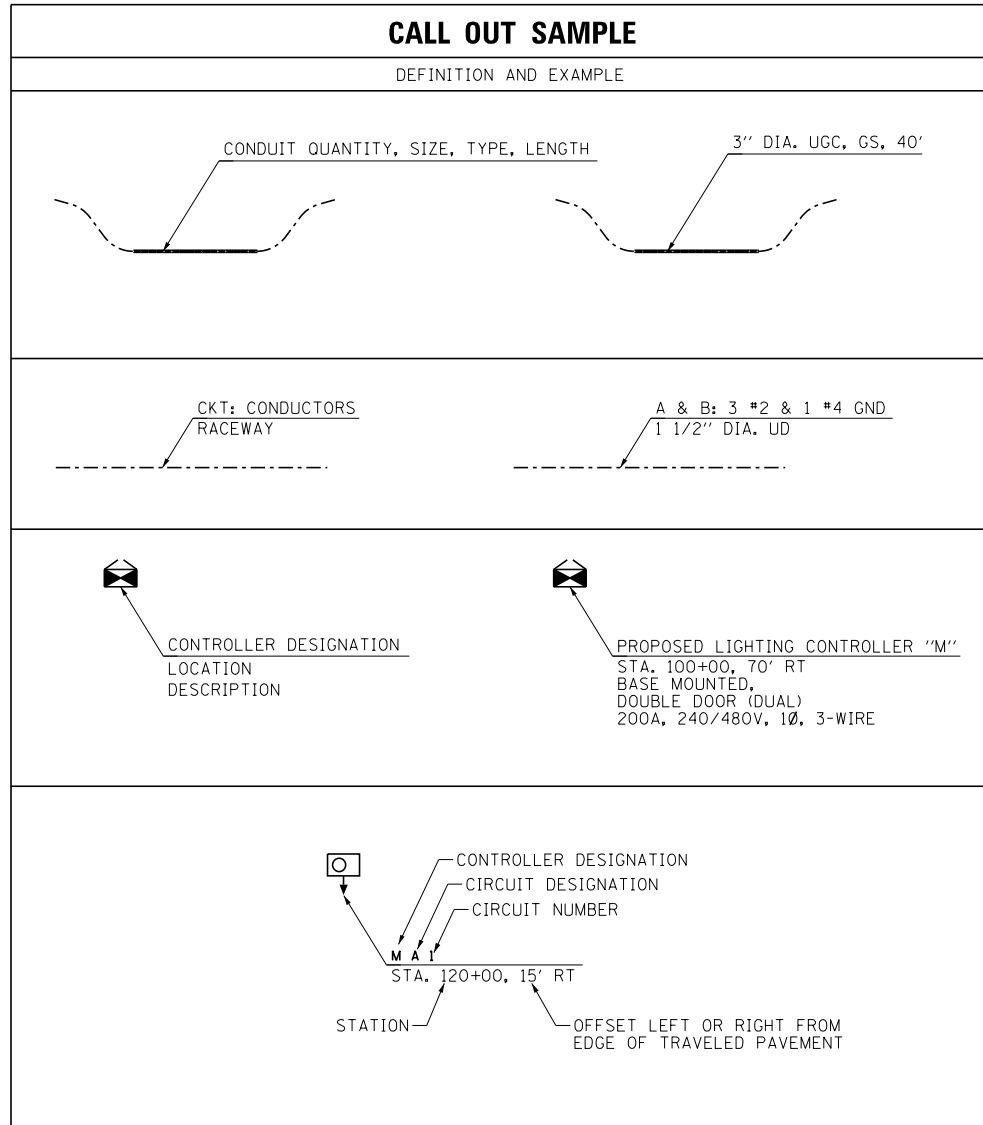
Notes:
 Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.
 All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.
 The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

- ① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- ② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- ③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- ④ For attachment details of 3/2" pipe and W10x22, see other sections as applicable.
- ⑤ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- ⑥ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
IB0161055R282.4-000	41+24.39	10'-0"	2'-1 1/2"	1'-10 1/2"	3'-10 1/2"	1'-0"	9'-0"

USER NAME =	DESIGNED - JJA	REVISED -
FILE NAME =	CHECKED - TBP	REVISED -
PLOT SCALE =	DRAWN - RPW	REVISED -
PLOT DATE = 06/23/2014	CHECKED - TBP	REVISED -

LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING HIGH MAST LIGHTING TOWER UNIT 750W HPS LUMINAIRES, ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
	EXISTING BASE MOUNTED LIGHTING CONTROLLER
	EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED
	EXISTING ELECTRIC UTILITY POLE
	EXISTING JUNCTION BOX
	EXISTING JUNCTION BOX TO BE REMOVED
	EXISTING CONDUIT TO BE REMOVED
	EXISTING CONDUIT TO REMAIN
	EXISTING LIGHT POLE
	EXISTING SIGN LIGHTING
	EXISTING SIGN LIGHTING TO BE REMOVED
	PROPOSED UNDERPASS LUMINAIRE, PIER MOUNT, 100W HPS TYPE M-C-IV
	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN EXPOSED OR EMBEDDED CONDUIT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED
	ELECTRIC GROUND ROD



ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AC	ALTERNATING CABLE
A/C	AERIAL CABLE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSANGER WIRE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SS	STAINLESS STEEL
STA.	STATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUIT, GALVANIZED STEEL
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFN	LIQUID TIGHT FLEXIBLE NON-METALLIC

INDEX OF DRAWINGS:

DRAWING NO.	TITLE
1	LEGEND, ABBREVIATIONS, GENERAL NOTES & INDEX OF DRAWINGS
2	SCHEDULE OF QUANTITIES
3	EXISTING UNDERDECK LIGHTING REMOVAL PLAN
4	PROPOSED UNDERDECK LIGHTING S.B. IL171 OVER I-55
5	LIGHTING CONTROLLER "M" WIRING DIAGRAM
6	LIGHTING CONTROLLER "N" WIRING DIAGRAM
7	CONDUIT TRANSITION DETAILS

IDOT-D1 STANDARDS:

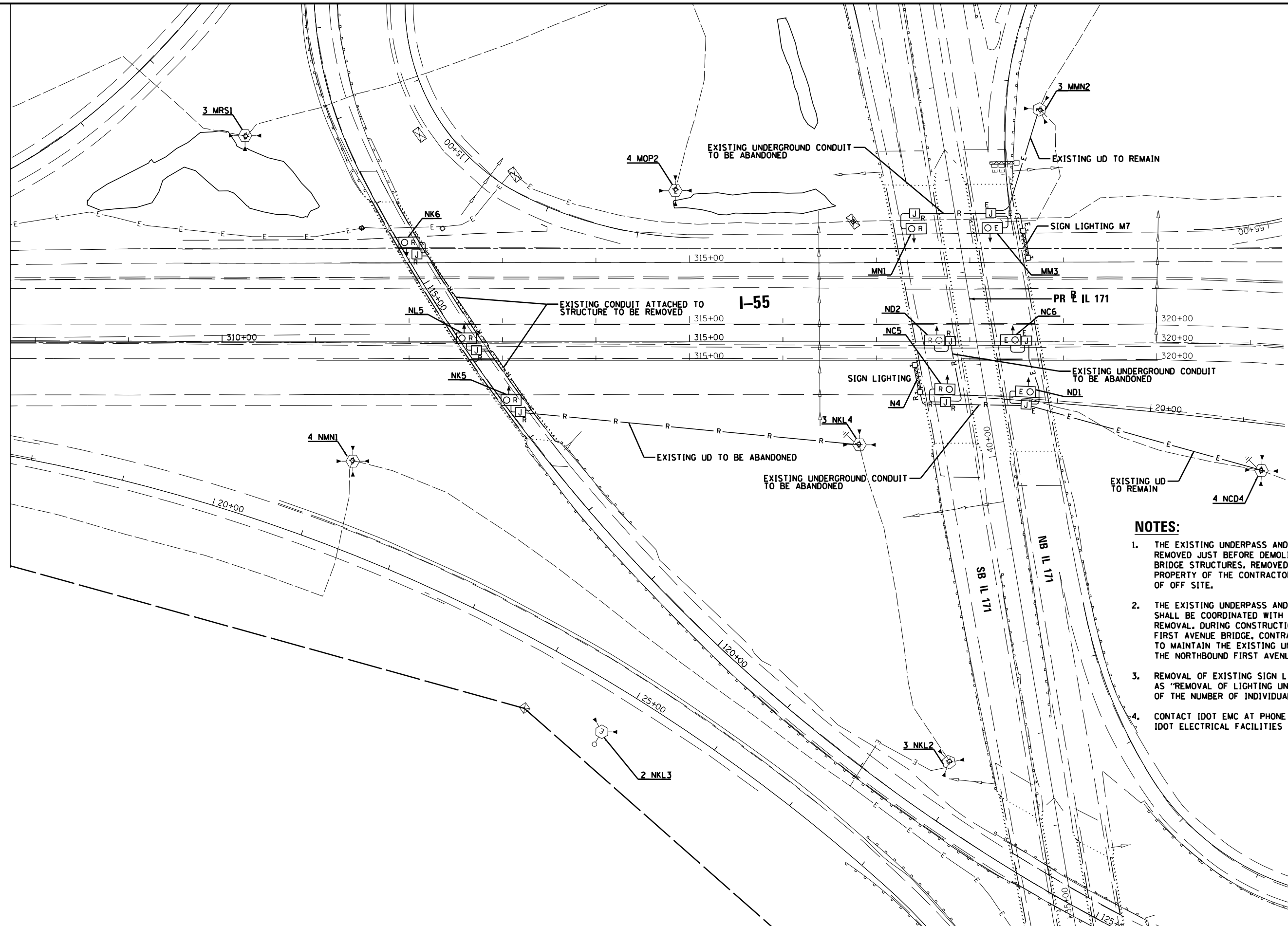
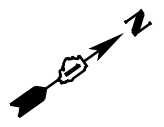
DRAWING NO.	STANDARD NO.	TITLE
8	BE-702	MISCELLANEOUS ELECTRICAL DETAILS SHEET A
9	BE-703	MISCELLANEOUS ELECTRICAL DETAILS SHEET B
10	BE-902	PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS

GENERAL NOTES:

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS, AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- CONTRACTOR SHALL INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT STRUCTURE JOINTS AS NEEDED PER IDOT-D1 STANDARD DRAWING NO. BE-703 AT NO ADDITIONAL COST.
- CABLE IN CONDUIT OR UNIT DUCT MARKED TO BE ABANDONED SHALL BE REMOVED. COST OF CABLE REMOVAL SHALL BE INCLUDED IN "REMOVAL OF LIGHTING UNIT, NO SALVAGE." THE CONTRACTOR SHALL CALL NEIL THAKKAR AT (708) 524-2145 TO TRANSFER THE MAINTENANCE PRIOR TO ANY WORK PERFORMED ON LIGHTING.
- THE CONTRACTOR SHALL TAKE CONTROL AND MAINTAIN CIRCUITS "O" AND "P" ON CONTROLLER "M". SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL TAKE CONTROL AND MAINTAIN CIRCUITS "K" AND "L" ON CONTROLLER "N". SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

SCHEDULE OF QUANTITIES

SP	DESCRIPTION	UNIT	TOTAL QUANTITY
*	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	441
*	CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	20
	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	280
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	2
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	7
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	2
*	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	325
*	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1730
*	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	10
	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	7
*	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	13



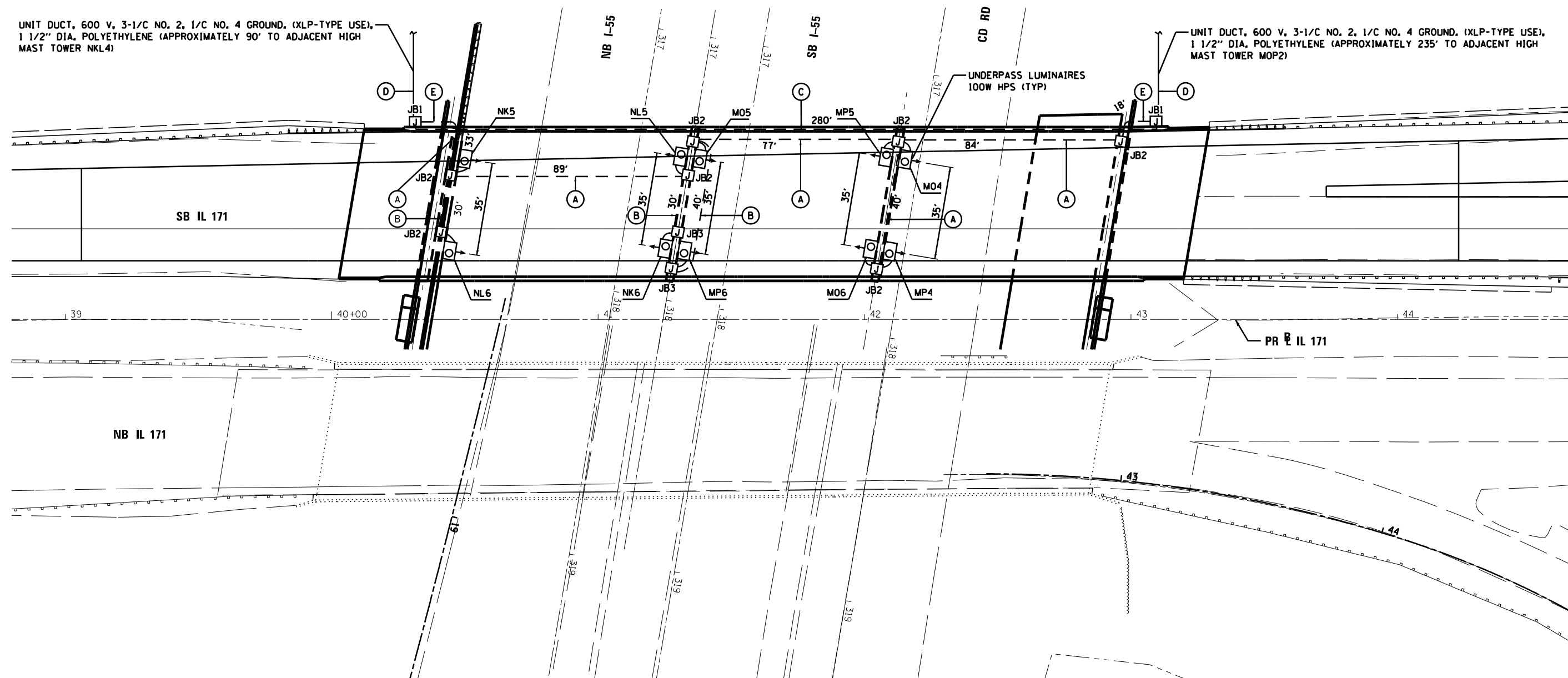
NOTES:

1. THE EXISTING UNDERPASS AND SIGN LIGHTING SHALL BE REMOVED JUST BEFORE DEMOLITION OF THE EXISTING BRIDGE STRUCTURES. REMOVED ITEMS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE.
2. THE EXISTING UNDERPASS AND SIGN LIGHTING REMOVAL SHALL BE COORDINATED WITH THE BRIDGE STRUCTURE REMOVAL. DURING CONSTRUCTION OF THE SOUTHBOUND FIRST AVENUE BRIDGE, CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE EXISTING UNDERPASS LIGHTING UNDER THE NORTHBOUND FIRST AVENUE BRIDGE.
3. REMOVAL OF EXISTING SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.
4. CONTACT IDOT EMC AT PHONE #773.287.7600 TO LOCATE IDOT ELECTRICAL FACILITIES WITHIN THE CONTRACT LIMITS.

FILE NAME =	DESIGNED - GRR	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING UNDERDECK LIGHTING		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \D160W77-shr-IL171-Exr-Light-DeStrNo. 016-151	DRAWN - JW	REVISED -			373	(0707-608 & 611)HB-B	COOK	177	58		
USER NAME = jworthington	CHECKED - GHT	REVISED -			REMOVAL PLAN		CONTRACT NO. 60W77				
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -			SCALE: SHEET 3 OF 10 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				

UNIT DUCT, 600 V, 3-1/C NO. 2, 1/C NO. 4 GROUND. (XLP-TYPE USE),
1 1/2" DIA. POLYETHYLENE (APPROXIMATELY 90° TO ADJACENT HIGH
MAST TOWER NKL4)

UNIT DUCT, 600 V, 3-1/C NO. 2, 1/C NO. 4 GROUND. (XLP-TYPE USE),
1 1/2" DIA. POLYETHYLENE (APPROXIMATELY 235° TO ADJACENT HIGH
MAST TOWER MOP2)



LEGEND

- (A) CONDUIT ATTACHED TO STRUCTURE, 1" DIA. PVCC RGC WITH 3-1/C NO. 10 AND 1/C NO. 10 GND.
- (B) CONDUIT ATTACHED TO STRUCTURE, 1" DIA. PVCC RGC WITH 2-1/C NO. 10 AND 1/C NO. 10 GND.
- (C) CONDUIT EMBEDDED IN STRUCTURE, 2" DIA. PVC (EMPTY)
- (D) CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA. PVCC RGC WITH UNIT DUCT AS NOTED ON PLANS (FOR TRANSITION TO UNDERGROUND) - 10'
- (E) UNDERGROUND CONDUIT, 1" DIA. PVCC RGC WITH 3-1/C NO. 10 AND 1/C NO. 10 GND (CONDUIT PAID FOR AS ATTACHED TO STRUCTURE)
- JB1 JUNCTION BOX, STAINLESS STEEL, 18"x12"x6", ATTACHED TO PARAPET
- JB2 JUNCTION BOX, STAINLESS STEEL, 12"x12"x6", ATTACHED TO ABUTMENT AND TOP OF PIER CAP
- JB3 JUNCTION BOX, STAINLESS STEEL, 6"x6"x4", ATTACHED TO TOP OF PIER CAP

NOTE:

1. UNDERPASS LUMINAIRES SHALL BE MOUNTED TO THE FACE OF PIERS, EXCEPT FOR THE TWO LUMINAIRES AT THE SOUTH ABUTMENT WHICH SHALL BE MOUNTED TO THE FACE OF THE RETAINING WALL COPING.
2. THE DISTANCES SHOWN BETWEEN THE UNDERPASS LUMINAIRE IS MEASURED FROM CENTER OF LUMINAIRES.
3. THE CABLE SPLICES AT THE JUNCTION BOX SHALL BE DONE ACCORDING TO THE SPLICING DETAIL SHOWN ON IDOT-D1 STANDARD DETAIL DRAWING NO. BE-702 PROVIDE DOUBLE POLE FUSE HOLDERS WITH 5 AMP FUSE AND SOLID NEUTRAL.
4. UNDERPASS LUMINAIRES SHALL BE INSTALLED AS SHOWN ON IDOT-D1 STANDARDS DRAWING NO. BE-902. SEE THIS DETAIL FOR FURTHER INFORMATION ON CONDUIT ROUTING AND INSTALLATION.
5. AT ALL LOCATIONS WHERE EXPANSION/DEFLECTION CAN OCCUR IN CONDUIT ATTACHED TO STRUCTURE AND FOR CONNECTION TO LUMINAIRES THE CONTRACTOR SHALL UTILIZE LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT.

FILE NAME =	DESIGNED - GRR	REVISED -
... \D160W77-shr-IL171-prLight-DeStr-No. 016-1510	DRAWN - JW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -

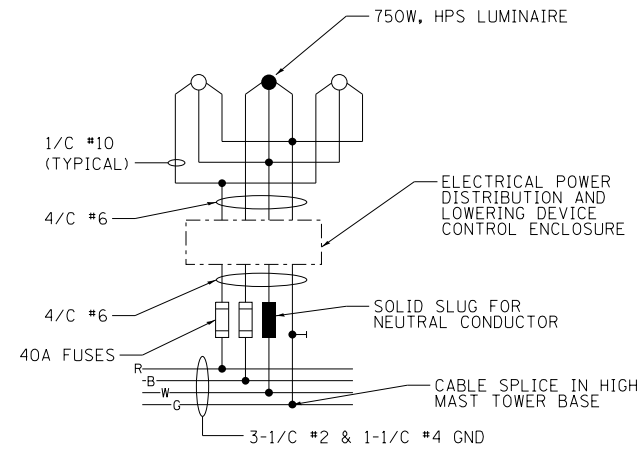


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

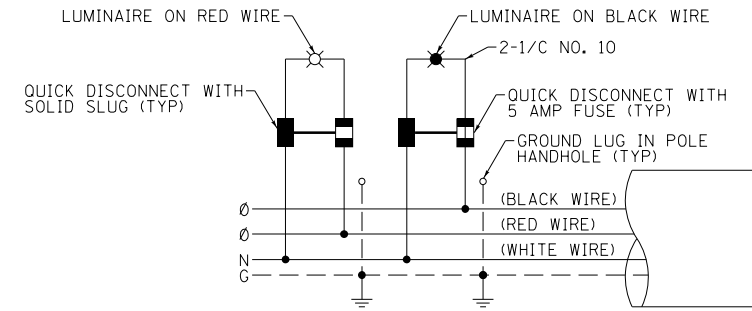
PROPOSED UNDERDECK LIGHTING
S.B. IL 171 OVER I-55

SCALE: SHEET 4 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)H-B	COOK	177	59
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60W77

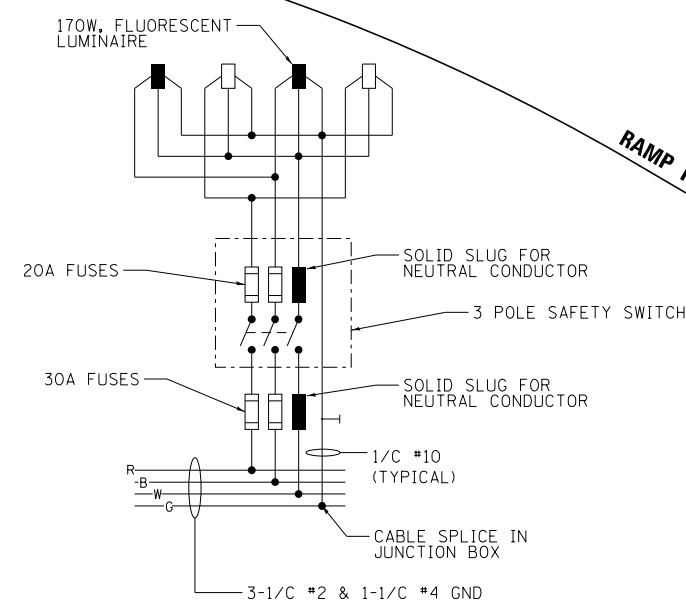
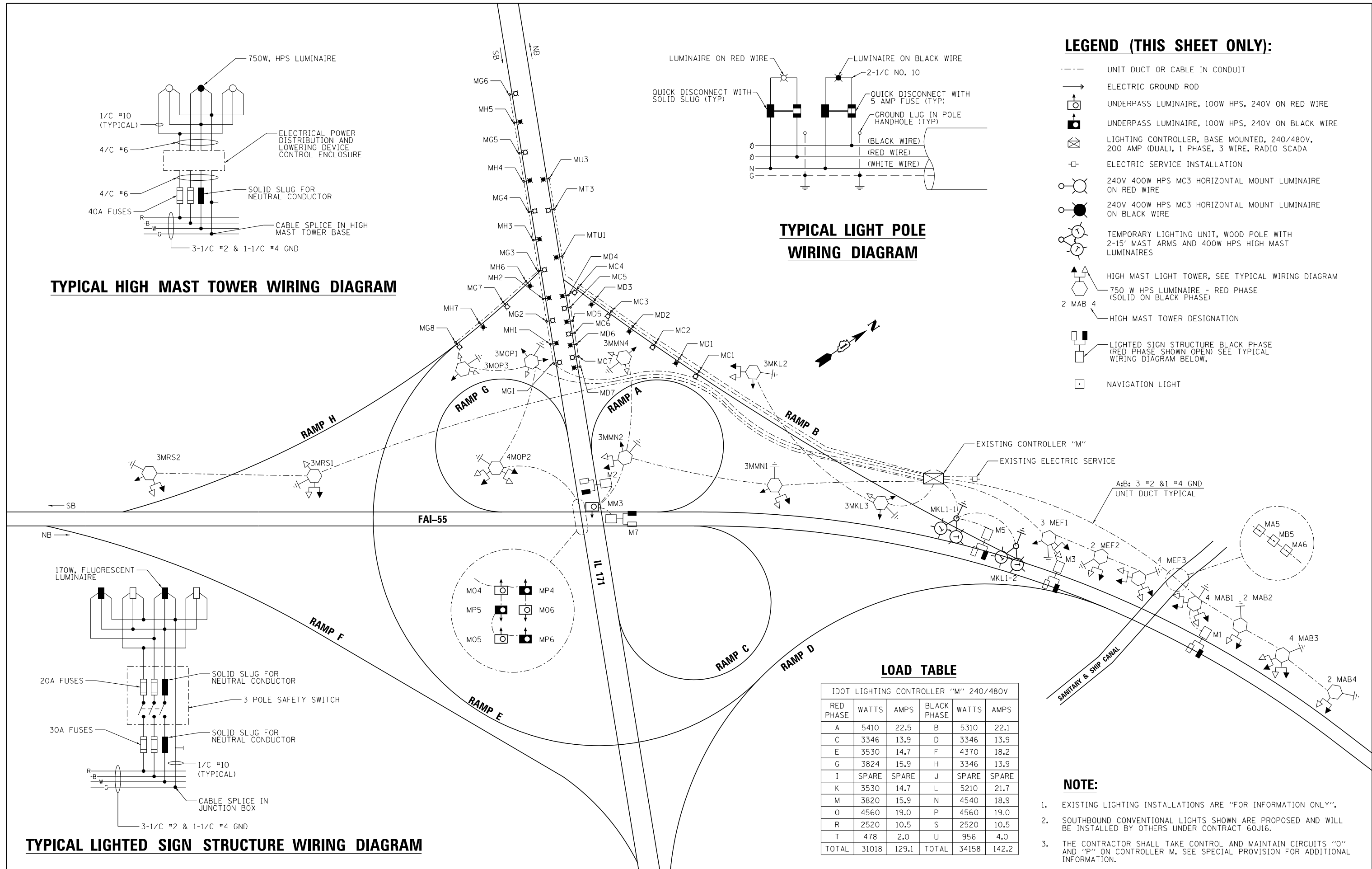


TYPICAL HIGH MAST TOWER WIRING DIAGRAM



TYPICAL LIGHT POLE WIRING DIAGRAM

- LEGEND (THIS SHEET ONLY):**
- UNIT DUCT OR CABLE IN CONDUIT
 - ⊥ ELECTRIC GROUND ROD
 - ⊠ UNDERPASS LUMINAIRE, 100W HPS, 240V ON RED WIRE
 - ⊠ UNDERPASS LUMINAIRE, 100W HPS, 240V ON BLACK WIRE
 - ⊠ LIGHTING CONTROLLER, BASE MOUNTED, 240/480V, 200 AMP (DUAL), 1 PHASE, 3 WIRE, RADIO SCADA
 - ⊠ ELECTRIC SERVICE INSTALLATION
 - 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON RED WIRE
 - 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON BLACK WIRE
 - TEMPORARY LIGHTING UNIT, WOOD POLE WITH 2-15' MAST ARMS AND 400W HPS HIGH MAST LUMINAIRES
 - ⊠ HIGH MAST LIGHT TOWER, SEE TYPICAL WIRING DIAGRAM
 - 750 W HPS LUMINAIRE - RED PHASE (SOLID ON BLACK PHASE)
 - ⊠ HIGH MAST TOWER DESIGNATION
 - ⊠ LIGHTED SIGN STRUCTURE BLACK PHASE (RED PHASE SHOWN OPEN) SEE TYPICAL WIRING DIAGRAM BELOW,
 - ⊠ NAVIGATION LIGHT



TYPICAL LIGHTED SIGN STRUCTURE WIRING DIAGRAM

LOAD TABLE

IDOT LIGHTING CONTROLLER "M" 240/480V					
RED PHASE	WATTS	AMPS	BLACK PHASE	WATTS	AMPS
A	5410	22.5	B	5310	22.1
C	3346	13.9	D	3346	13.9
E	3530	14.7	F	4370	18.2
G	3824	15.9	H	3346	13.9
I	SPARE	SPARE	J	SPARE	SPARE
K	3530	14.7	L	5210	21.7
M	3820	15.9	N	4540	18.9
O	4560	19.0	P	4560	19.0
R	2520	10.5	S	2520	10.5
T	478	2.0	U	956	4.0
TOTAL	31018	129.1	TOTAL	34158	142.2

- NOTE:**
- EXISTING LIGHTING INSTALLATIONS ARE "FOR INFORMATION ONLY".
 - SOUTHBOUND CONVENTIONAL LIGHTS SHOWN ARE PROPOSED AND WILL BE INSTALLED BY OTHERS UNDER CONTRACT 60J16.
 - THE CONTRACTOR SHALL TAKE CONTROL AND MAINTAIN CIRCUITS "O" AND "P" ON CONTROLLER M. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W77-sh-1L171-wiring-01.dgn	DRAWN - JW	REVISED -
USER NAME = aelesy	CHECKED - GHT	REVISED -
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -

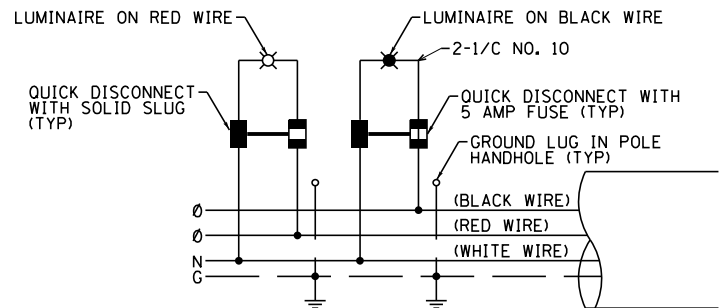


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

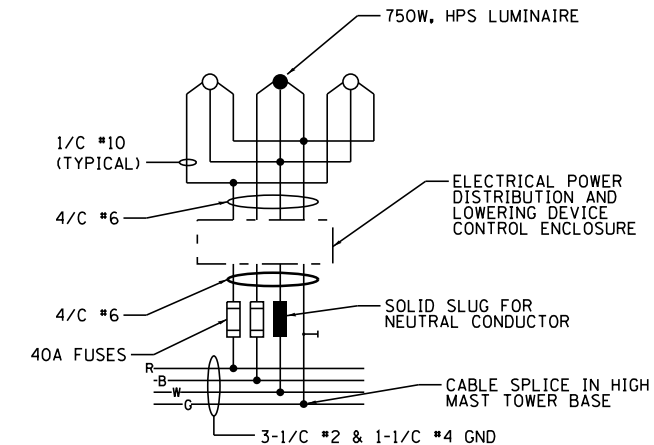
LIGHTING CONTROLLER
"M" WIRING DIAGRAM

SCALE: SHEET 5 OF 10 SHEETS STA. TO STA.

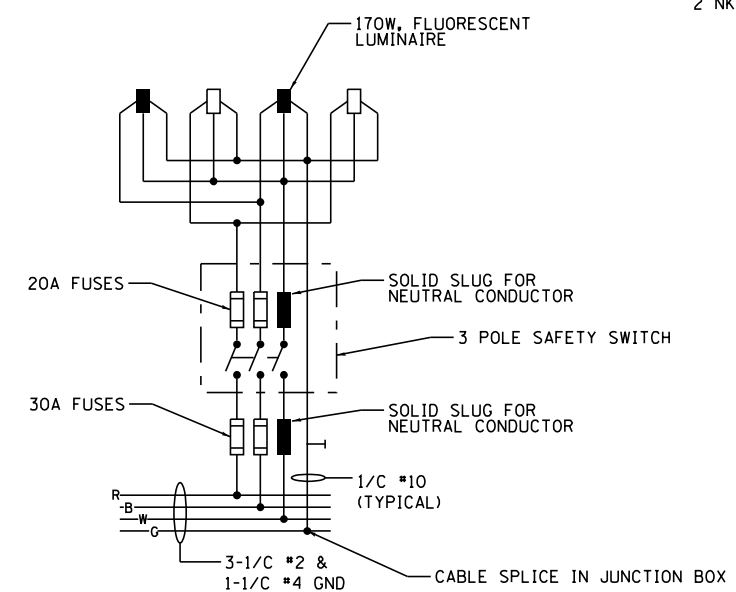
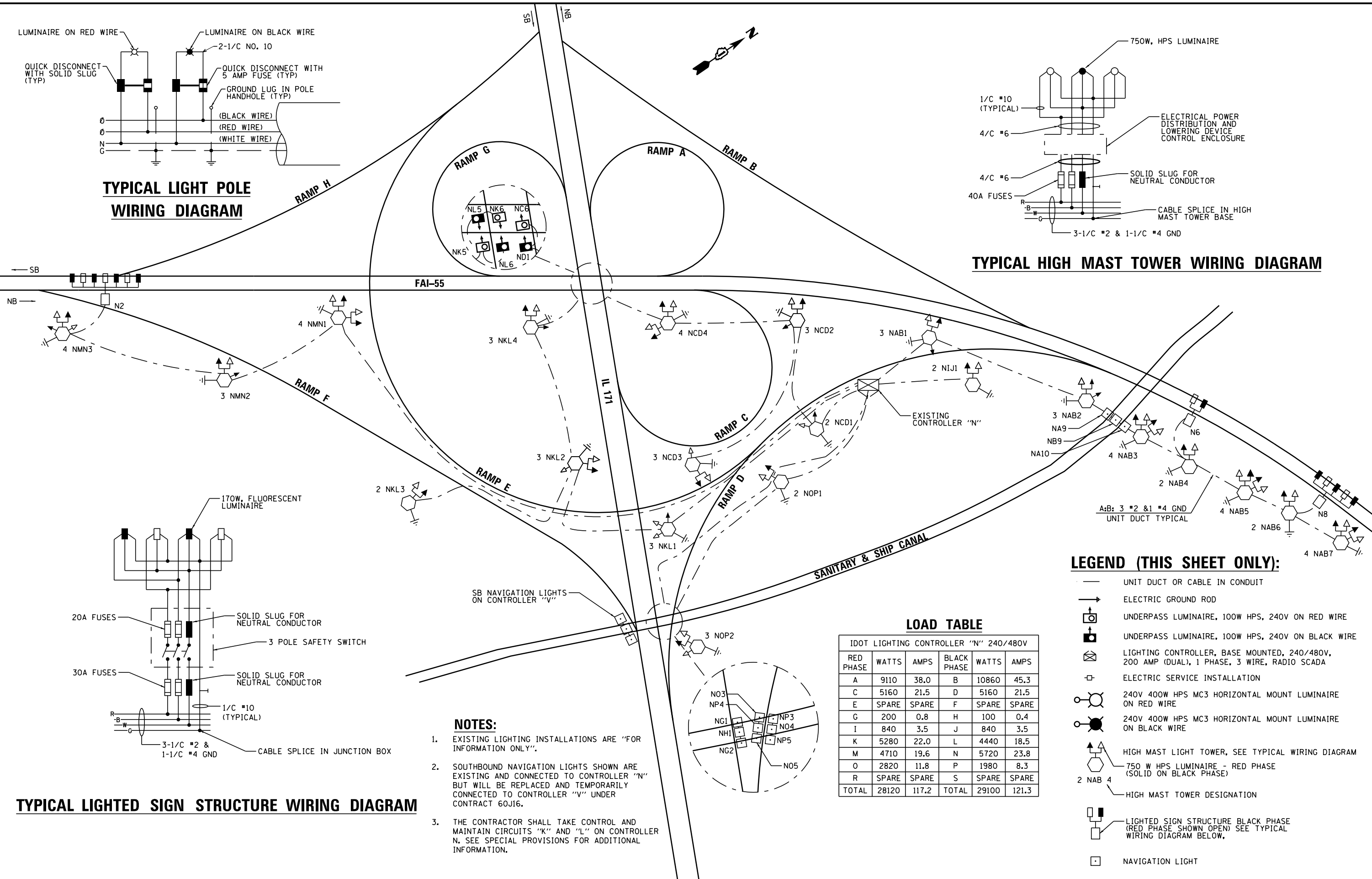
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	60
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				



TYPICAL LIGHT POLE WIRING DIAGRAM



TYPICAL HIGH MAST TOWER WIRING DIAGRAM



TYPICAL LIGHTED SIGN STRUCTURE WIRING DIAGRAM

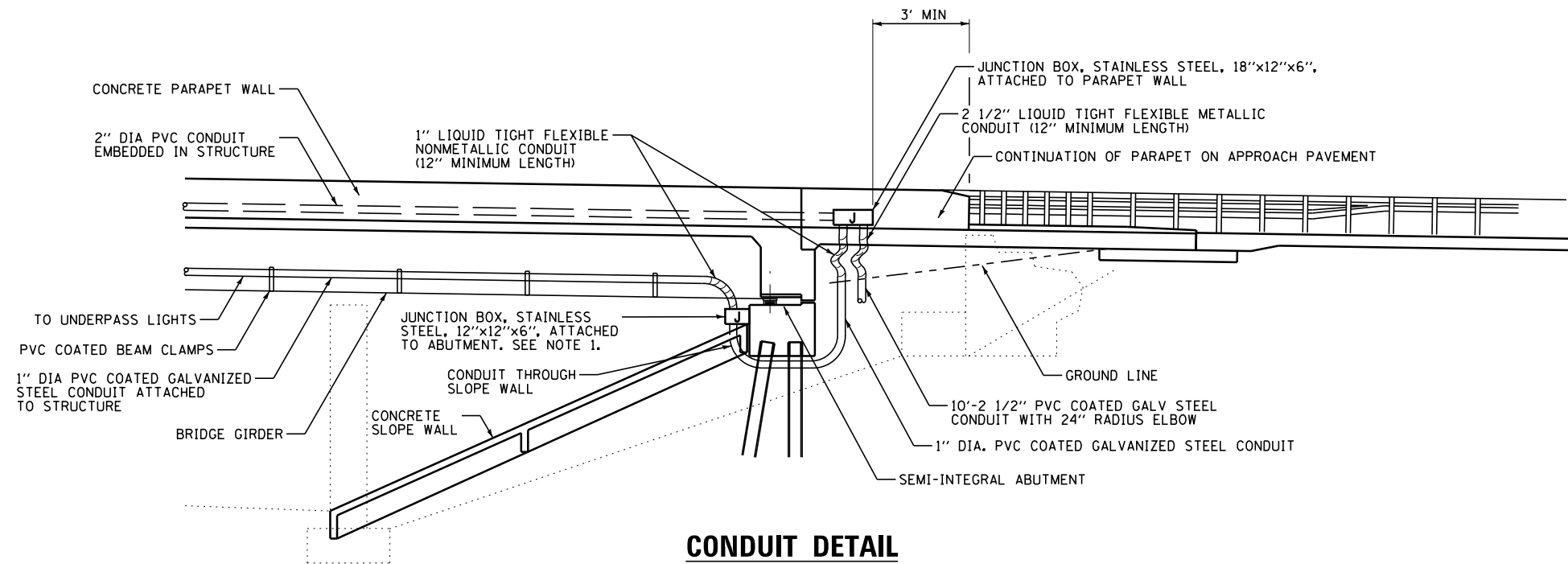
- NOTES:**
- EXISTING LIGHTING INSTALLATIONS ARE "FOR INFORMATION ONLY".
 - SOUTHBOUND NAVIGATION LIGHTS SHOWN ARE EXISTING AND CONNECTED TO CONTROLLER "N" BUT WILL BE REPLACED AND TEMPORARILY CONNECTED TO CONTROLLER "V" UNDER CONTRACT 60J16.
 - THE CONTRACTOR SHALL TAKE CONTROL AND MAINTAIN CIRCUITS "K" AND "L" ON CONTROLLER N. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

LOAD TABLE

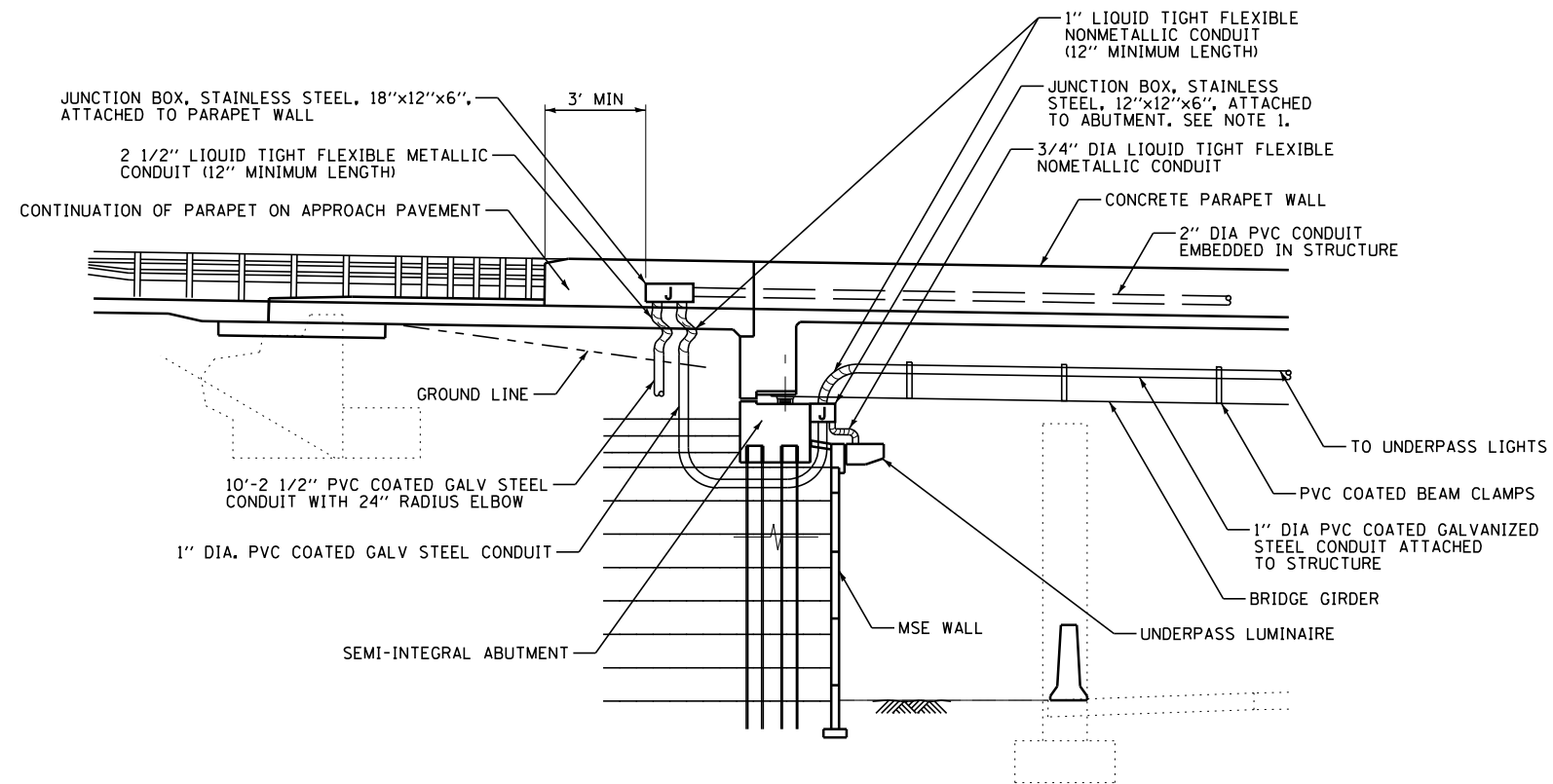
IDOT LIGHTING CONTROLLER "N" 240/480V

RED PHASE	WATTS	AMPS	BLACK PHASE	WATTS	AMPS
A	9110	38.0	B	10860	45.3
C	5160	21.5	D	5160	21.5
E	SPARE	SPARE	F	SPARE	SPARE
G	200	0.8	H	100	0.4
I	840	3.5	J	840	3.5
K	5280	22.0	L	4440	18.5
M	4710	19.6	N	5720	23.8
O	2820	11.8	P	1980	8.3
R	SPARE	SPARE	S	SPARE	SPARE
TOTAL	28120	117.2	TOTAL	29100	121.3

- LEGEND (THIS SHEET ONLY):**
- UNIT DUCT OR CABLE IN CONDUIT
 - ELECTRIC GROUND ROD
 - UNDERPASS LUMINAIRE, 100W HPS, 240V ON RED WIRE
 - UNDERPASS LUMINAIRE, 100W HPS, 240V ON BLACK WIRE
 - LIGHTING CONTROLLER, BASE MOUNTED, 240/480V, 200 AMP (DUAL), 1 PHASE, 3 WIRE, RADIO SCADA
 - ELECTRIC SERVICE INSTALLATION
 - 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON RED WIRE
 - 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON BLACK WIRE
 - HIGH MAST LIGHT TOWER, SEE TYPICAL WIRING DIAGRAM
 - 750 W HPS LUMINAIRE - RED PHASE (SOLID ON BLACK PHASE)
 - HIGH MAST TOWER DESIGNATION
 - LIGHTED SIGN STRUCTURE BLACK PHASE (RED PHASE SHOWN OPEN) SEE TYPICAL WIRING DIAGRAM BELOW.
 - NAVIGATION LIGHT



CONDUIT DETAIL
(NORTH ABUTMENT)



CONDUIT DETAIL
(SOUTH ABUTMENT)

NOTE:

- JUNCTION BOX SHALL BE MOUNTED TO STAINLESS STEEL CHANNELS TO ENSURE JUNCTION BOX IS A MINIMUM OF 1" OFF OF SLOPE WALL.

FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W77-shr-1L171-conduit-detail-SB-XX.dwg	DRAWN - JW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/23/2014	DATE - 6/23/2014	REVISED -

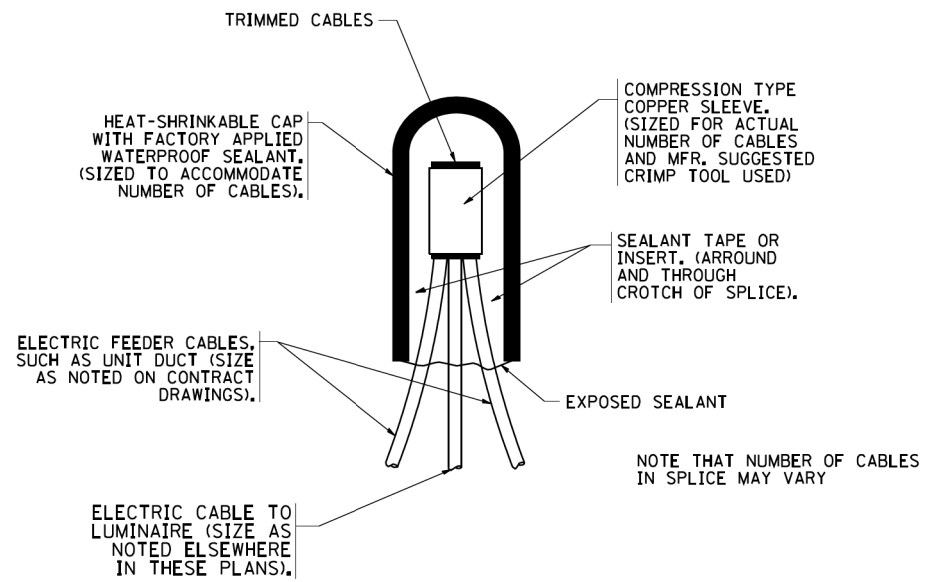


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT TRANSITION DETAILS

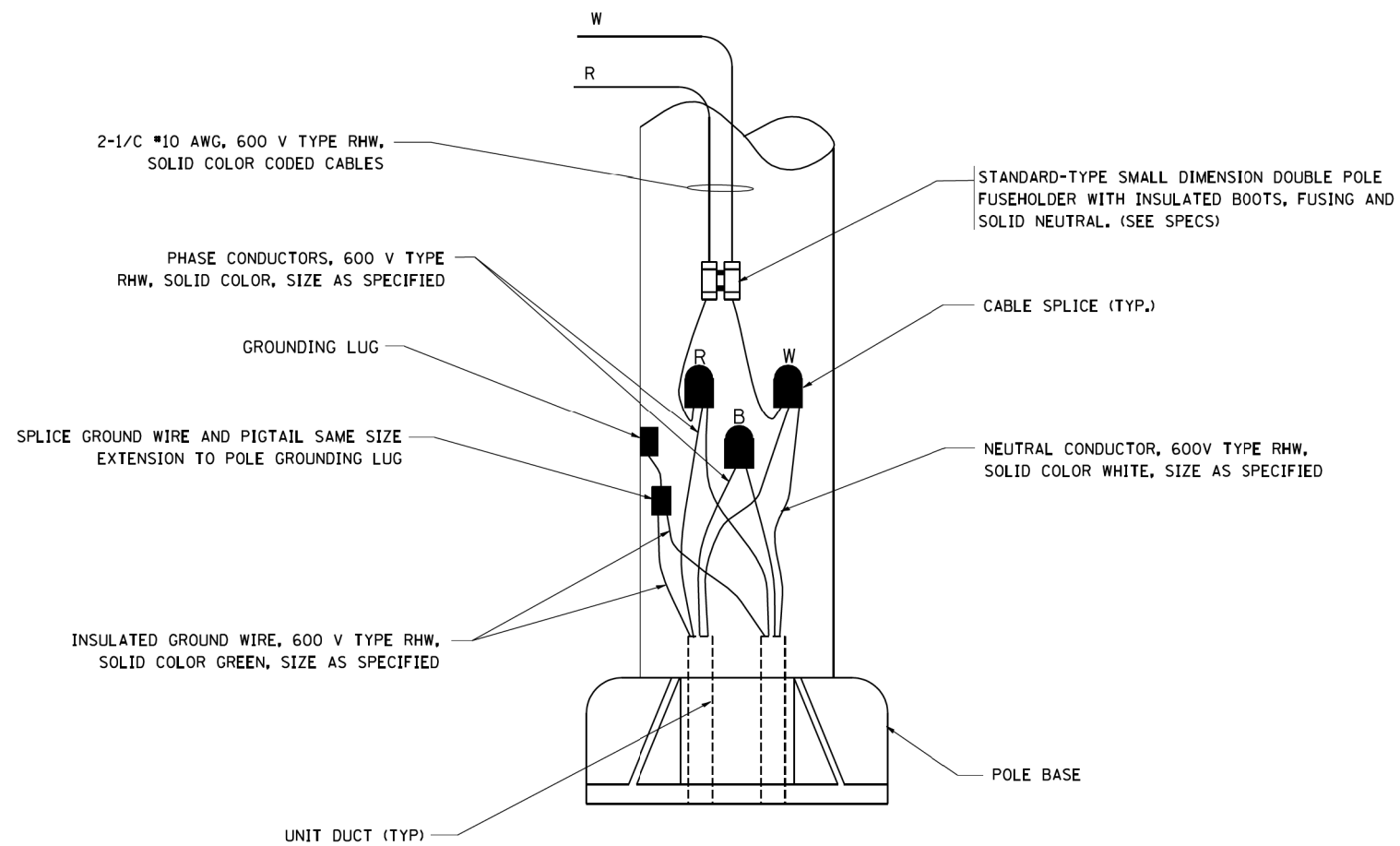
SCALE: SHEET 7 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608 & 611)HB-B	COOK	177	62
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	



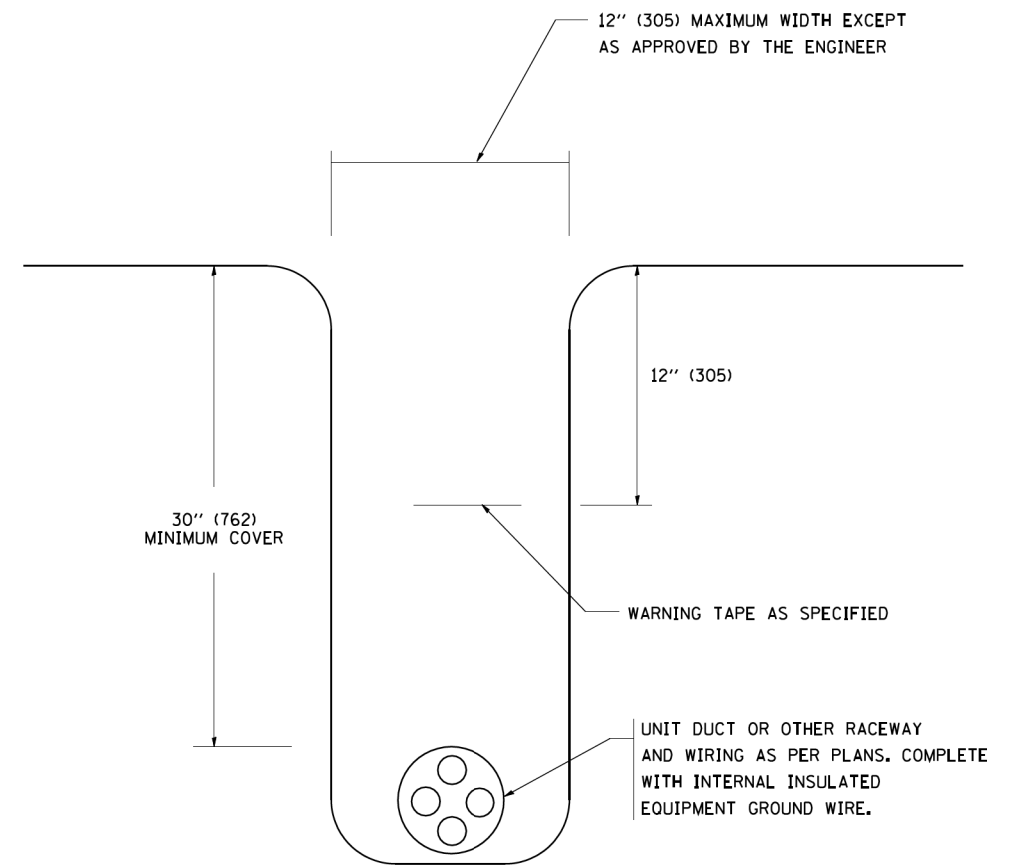
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

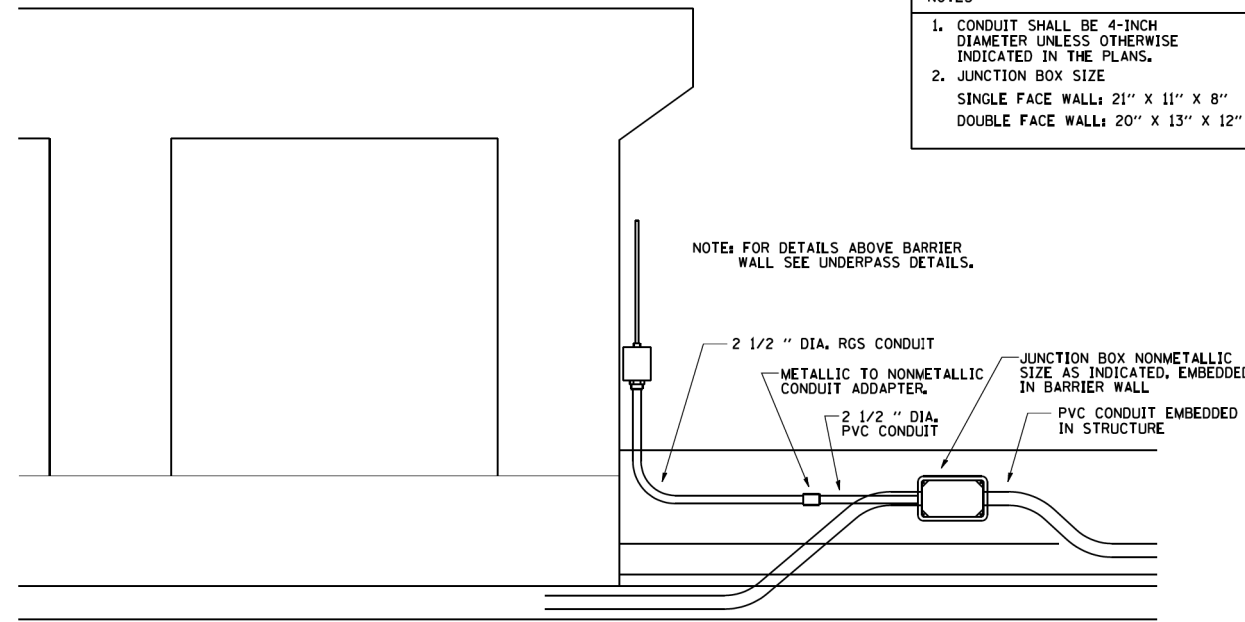
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

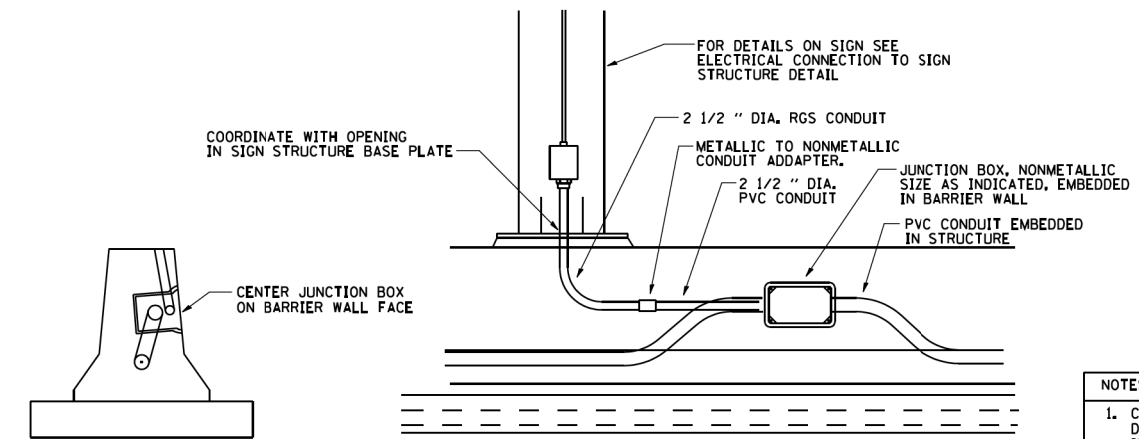
N.T.S.

FILE NAME = W:\diststd\22x34\be702.dgn	USER NAME = gegl1enobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000 ' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	(0707-608&611)HB-B	COOK	177	63	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -						BE-702				
		DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 60W77



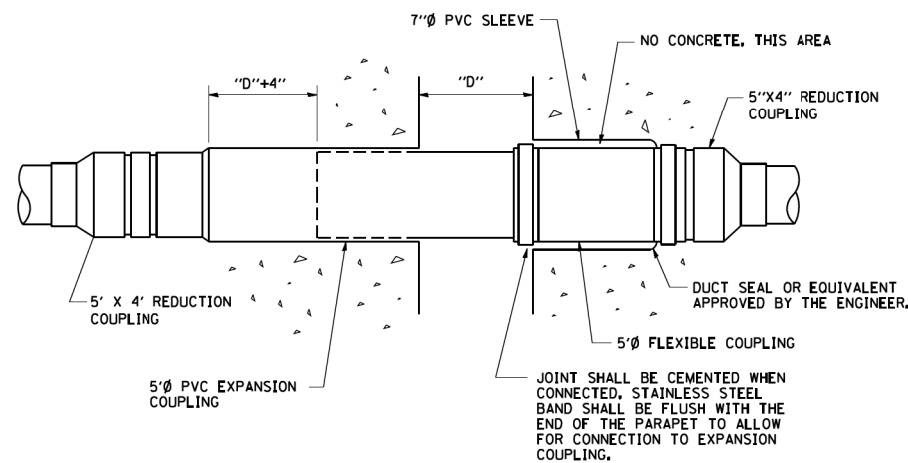
- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

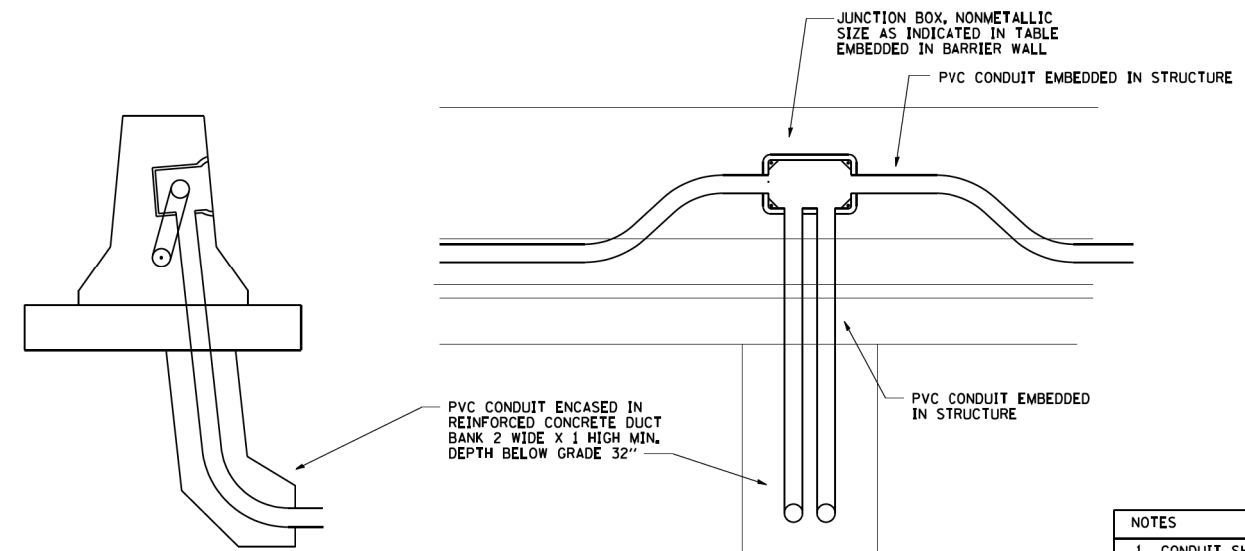


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

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



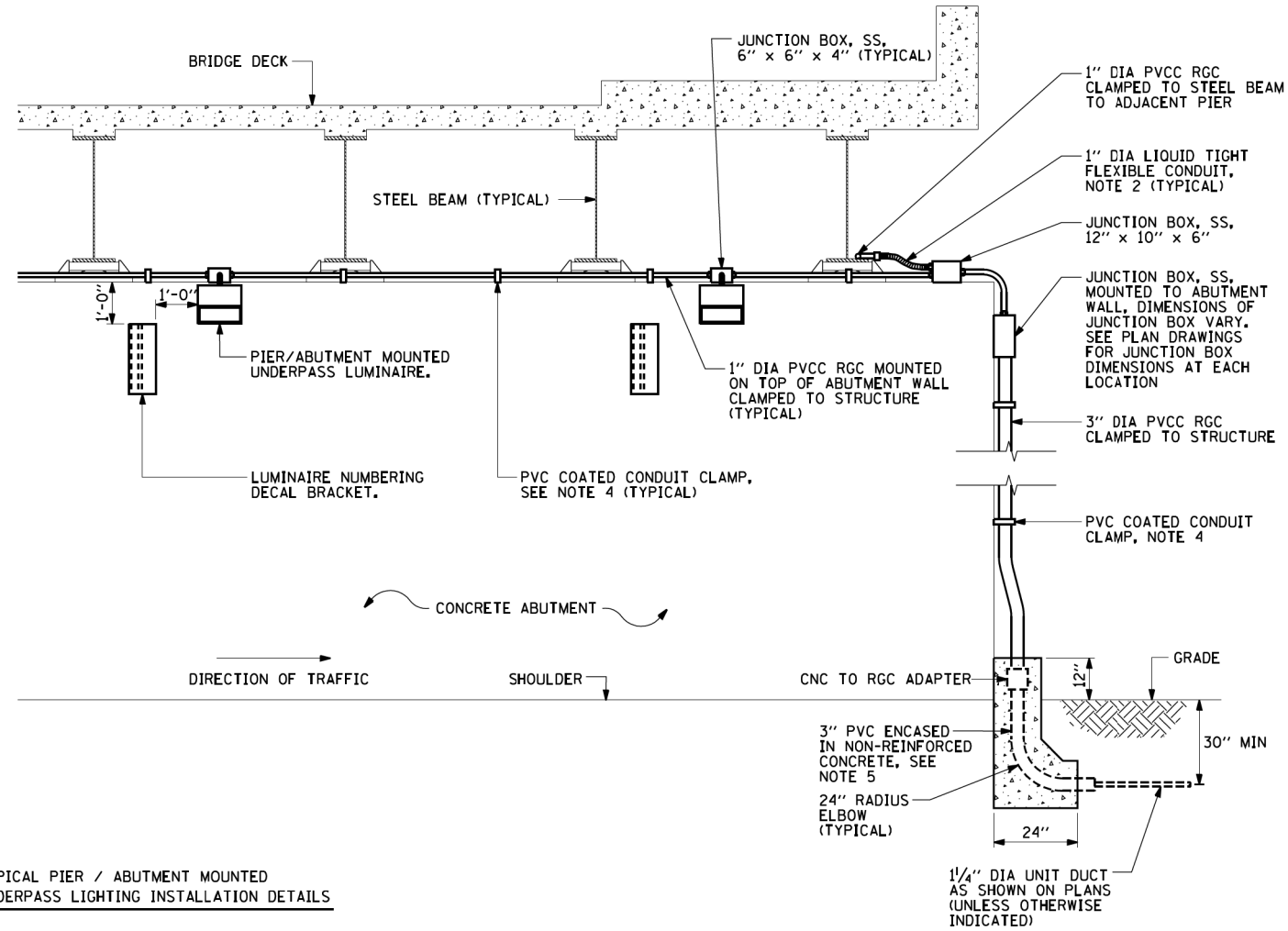
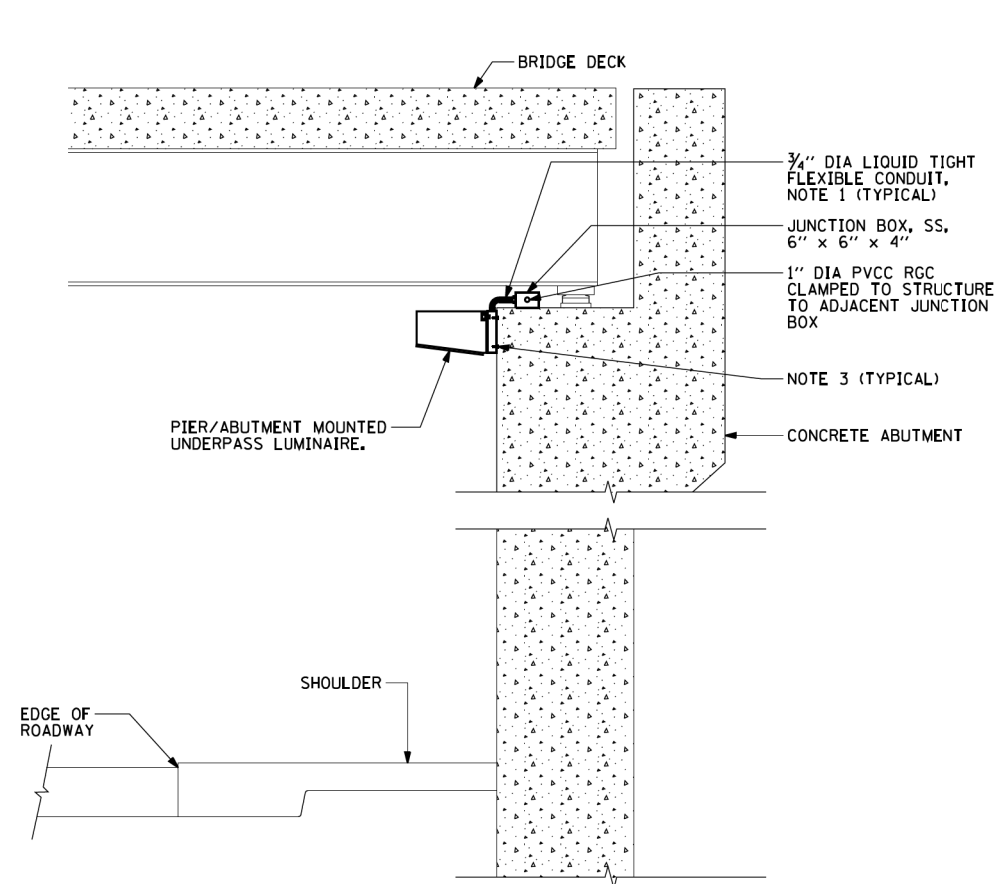
INSTALLATION OF CONDUIT
IN BRIDGE PARAPET EXPANSION JOINT
(N.T.S.)



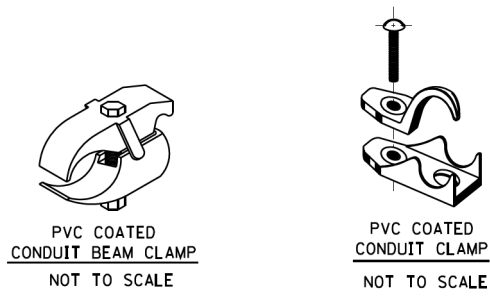
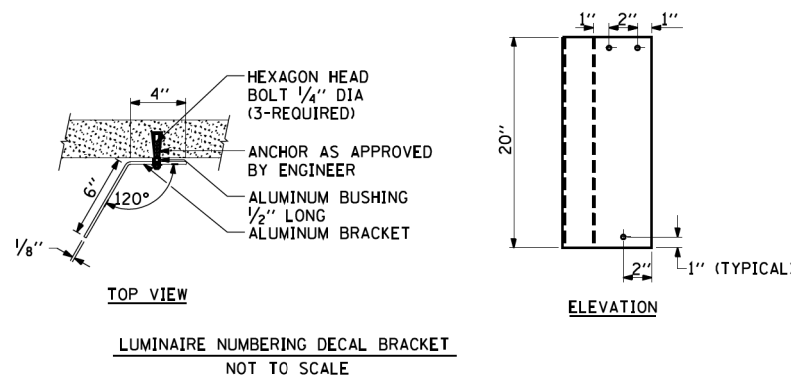
- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL

FILE NAME = be703.dgn	USER NAME = geglennob	DESIGNED -	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			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	0707-608&611HB-B	COOK	177	64
		CHECKED -	REVISED -								BE-703	CONTRACT NO. 60W77		
		DATE - 01-20-2009	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



TYPICAL PIER / ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS



- 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 = gaglienobt
 PLOT SCALE = 50.000' / IN.
 PLOT DATE = 1/4/2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED - 01-25-05
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER / ABUTMENT MOUNTED UNDERPASS
 LUMINAIRE INSTALLATION DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(0707-608&611)HB-B	COOK	177	65
BE-902		CONTRACT NO. 60W77		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- Fasteners shall be ASTM A325 Type I, hot-dipped galvanized bolts. Bolts 7/8" diameter, holes 15/16" diameter, unless otherwise noted. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
- Calculated weight of Structural Steel = 367,010 lbs.
M270 Grade 36: 35,390 lbs.
M270 Grade 50: 331,620 lbs.
- All new structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
- Girders have bearing stiffeners and connection plates as required by design. Additional stiffeners may be added at the Contractor's expense as necessary to prevent distortion of the girders during galvanizing. The Contractor shall coordinate with the fabricator and the galvanizer to determine if additional stiffeners are necessary, and where these should be placed. Any proposed changes shall be submitted to the Engineer for approval prior to making any changes.
- Temporary stiffener angles shall be bolted to each side of the splice ends of each girder segment to prevent distortion during galvanizing. Temporary stiffener angles shall bolt or fit tight against top & bottom flanges and include spacer tubes to minimize damage to galvanizing during removal. Cost included with Furn. & Erect. Structural Steel.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06 (b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior girder at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the piers, abutments and MSE wall.
 - South Abutment - Bearing Seats, front face of Abutment and front face of Wingwalls.
 - MSE Wall - front face of MSE Wall, front face and top of Coping and top of Coping seal.
 - Pier 1 - All exposed concrete surfaces starting from 3'-0" above top of footing.
 - Pier 2 - All exposed concrete surfaces starting from 4'-0" above top of footing.
- The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Areas of the existing bridge have permanent protective shield in place. If any part of the existing permanent protective shield system is to be re-used as temporary protective shield, the Contractor shall submit design calculations to the Engineer proving the system meets the requirements of Article 501.03 of the Standard Specifications. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. Removal of the existing protective shield is included with Removal of Existing Structures.
- Existing substructures to be removed to bottom of footing. Cost included with Removal of Existing Structures.

INDEX OF SHEETS

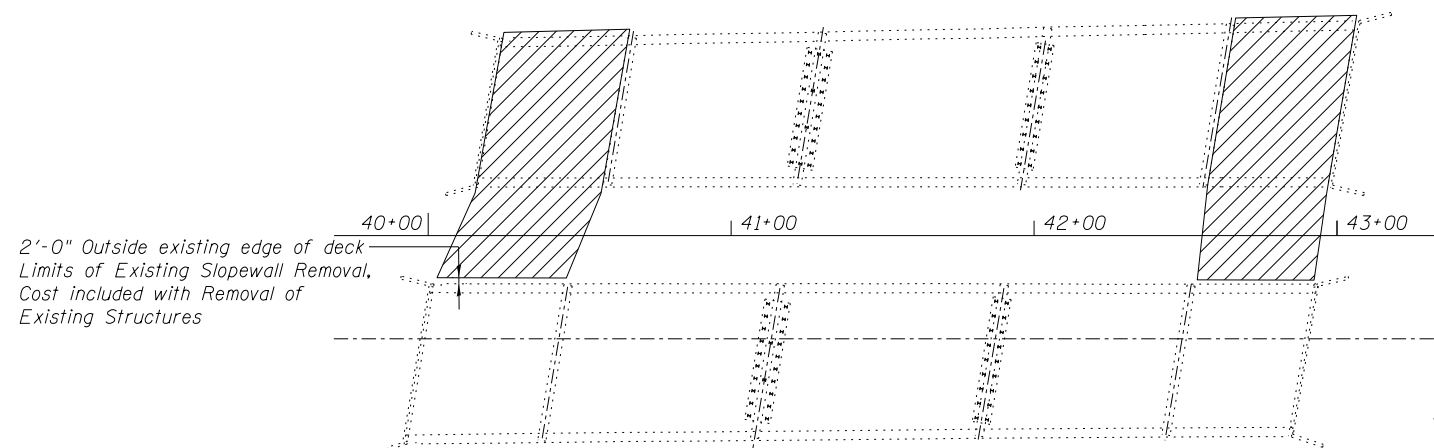
SA1	General Plan and Elevation
SA2	General Notes, Bill of Material and Index of Sheets
SA3	General Details
SA4	Foundation Layout
SA5	Temporary Soil Retention System
SA6	Top of Slab Elevations Plan
SA7	Top of Slab Elevations (1 of 3)
SA8	Top of Slab Elevations (2 of 3)
SA9	Top of Slab Elevations (3 of 3)
SA10	Top of South Approach Slab Elevations
SA11	Top of North Approach Slab Elevations
SA12	Deck Reinforcement Plan
SA13	Deck Cross Section and Details
SA14	Parapet Details
SA15	Superstructure Details
SA16	Concrete Parapet Slipforming Option
SA17	South Precast Approach Slab Plan
SA18	South Precast Approach Slab Details (1 of 3)
SA19	South Precast Approach Slab Details (2 of 3)
SA20	South Precast Approach Slab Details (3 of 3)
SA21	North Precast Approach Slab Plan
SA22	North Precast Approach Slab Details (1 of 3)
SA23	North Precast Approach Slab Details (2 of 3)
SA24	North Precast Approach Slab Details (3 of 3)
SA25	Framing Plan
SA26	Girder Elevation
SA27	Structural Steel Details (1 of 2)
SA28	Structural Steel Details (2 of 2)
SA29	Bearing Details
SA30	South Abutment Details
SA31	North Abutment Details
SA32	South Abutment MSE Wall
SA33	South Abutment MSE Wall Details
SA34	Pier 1 Details
SA35	Pier 2 Details
SA36	Pier 1 & 2 Bar Lists
SA37	HP Pile Details
SA38	Soil Boring Logs (1 of 6)
SA39	Soil Boring Logs (2 of 6)
SA40	Soil Boring Logs (3 of 6)
SA41	Soil Boring Logs (4 of 6)
SA42	Soil Boring Logs (5 of 6)
SA43	Soil Boring Logs (6 of 6)

For existing bridge plans, see Sheets SAX1 thru SAX8, immediately following Sheet SA43.

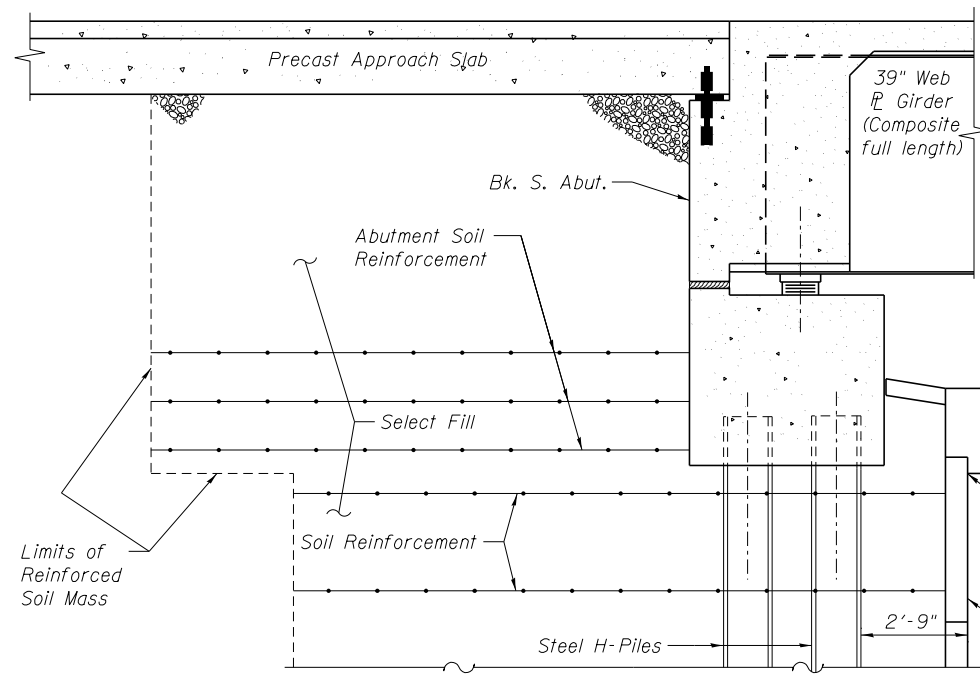
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
* Removal of Existing Structures No. 1	Each	1	-	1
Protective Shield	Sq Yd	1,137	-	1,137
Structure Excavation	Cu Yd	-	1,518	1,518
Concrete Structures	Cu Yd	-	427.8	427.8
Concrete Superstructure	Cu Yd	512.7	-	512.7
Bridge Deck Grooving	Sq Yd	1,849	-	1,849
Concrete Encasement	Cu Yd	-	5.2	5.2
Form Liner Textured Surface	Sq Ft	-	306	306
Protective Coat	Sq Yd	2,197	-	2,197
Furnishing and Erecting Structural Steel	L Sum	0.49	-	0.49
Stud Shear Connectors	Each	8,505	-	8,505
Reinforcement Bars, Epoxy Coated	Pound	142,310	59,310	201,620
Slope Wall 4 Inch	Sq Yd	-	246	246
Furnishing Steel Piles HP12x53	Foot	-	2,644	2,644
Driving Piles	Foot	-	2,644	2,644
Test Pile Steel HP12x53	Each	-	4	4
Pile Shoes	Each	-	72	72
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	118	-	118
Elastomeric Bearing Assembly, Type I	Each	21	-	21
Anchor Bolts, 1 1/4"	Each	-	42	42
Anchor Bolts, 1 1/2"	Each	-	14	14
Concrete Sealer	Sq Ft	-	5,894	5,894
Geocomposite Wall Drain	Sq Yd	-	60	60
Temporary Mechanically Stabilized Earth Retaining Wall	Sq Ft	-	336	336
Concrete Wearing Surface, 5"	Sq Yd	382	-	382
Precast Bridge Approach Slab	Sq Ft	3,276	-	3,276
Granular Backfill For Structures	Cu Yd	-	111	111
Mechanically Stabilized Earth Retaining Wall	Sq Ft	-	1,898	1,898
Pipe Underdrains For Structures 4"	Foot	-	88	88
Temporary Soil Retention System	Sq Ft	-	2,344	2,344

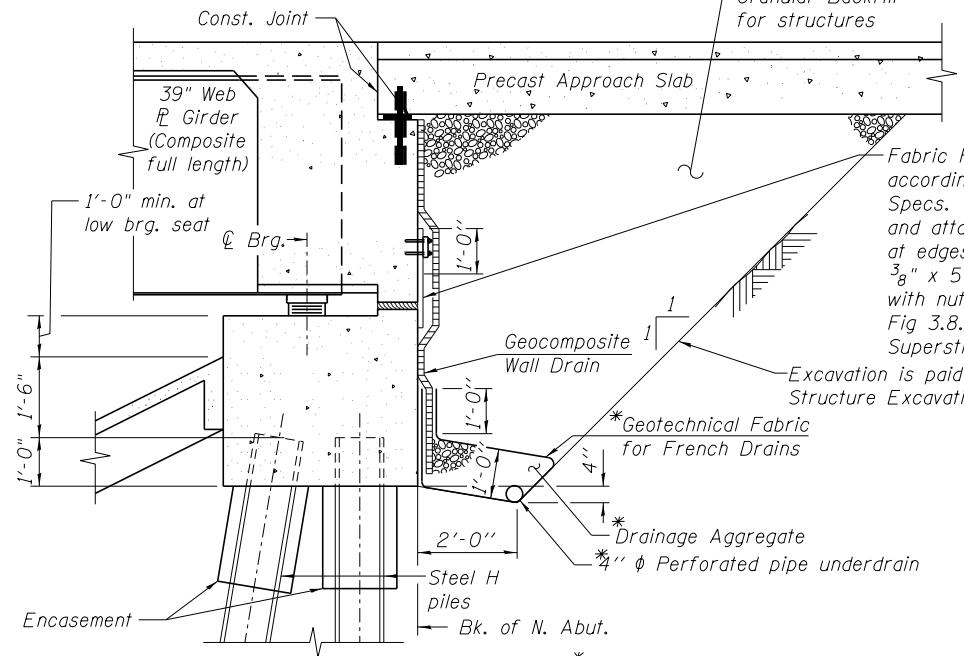
* Includes removal of existing protective shield located between each girder - full length of bridge.



REMOVAL LIMITS OF EXISTING SLOPEWALL



SECTION THRU SOUTH ABUTMENT
(Horiz. Dim. @ Rt. L's)

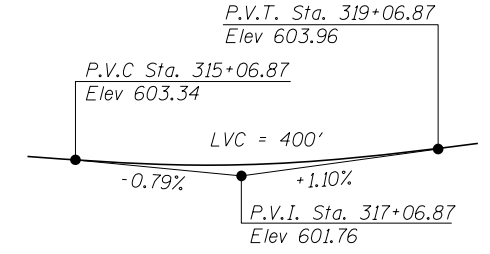


SECTION THRU NORTH ABUTMENT
(Horiz. Dim. @ Rt. L's)

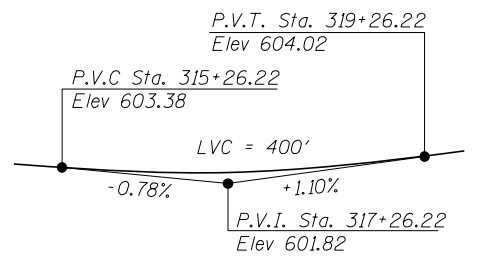
Fabric Reinforced Elastomeric Mat according to Section 1028 of the Std. Specs. Fabric mat shall be 24" wide and attached full width and vertically at edges to the abutment cap with a 3/8" x 5" steel plate and 1/2" φ studs with nuts and washers at 12" cts. See Fig 3.8.4-2. Cost included with Concrete Superstructure.

* Included in the cost of Pipe Underdrains for Structures (see Special Provisions).

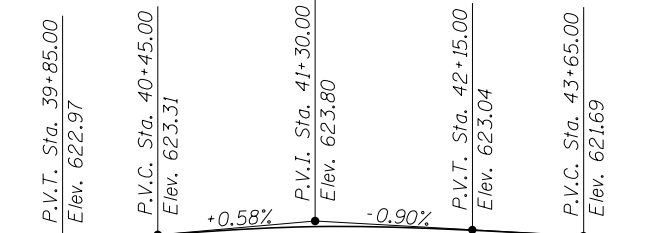
Note:
All drainage system components shall slope away from the IL-171 and extend parallel to the abutment back wall until 2'-0" from the end of the west wingwall. The pipe shall extend until intersecting the side slope. The pipes shall drain into a concrete headwall. (See article 601.05 of the Standard Specifications and Highway Standard 601101).



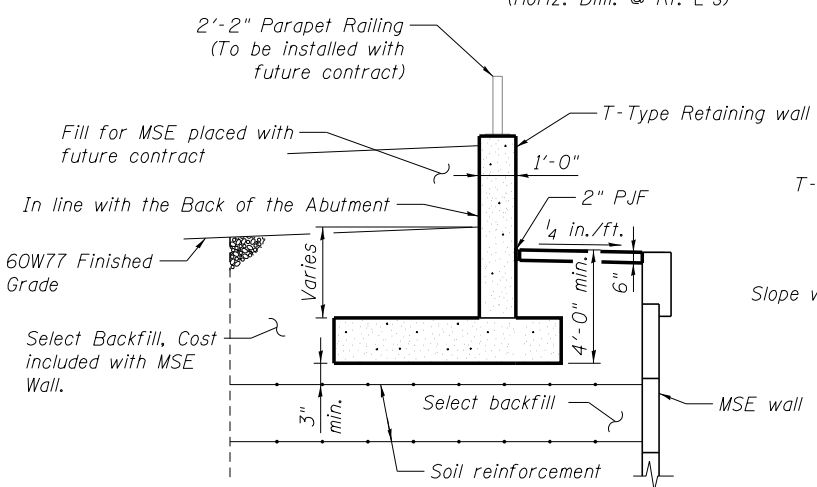
PROFILE GRADE NB & SB I-55
(Along Median Edge of Pavement)



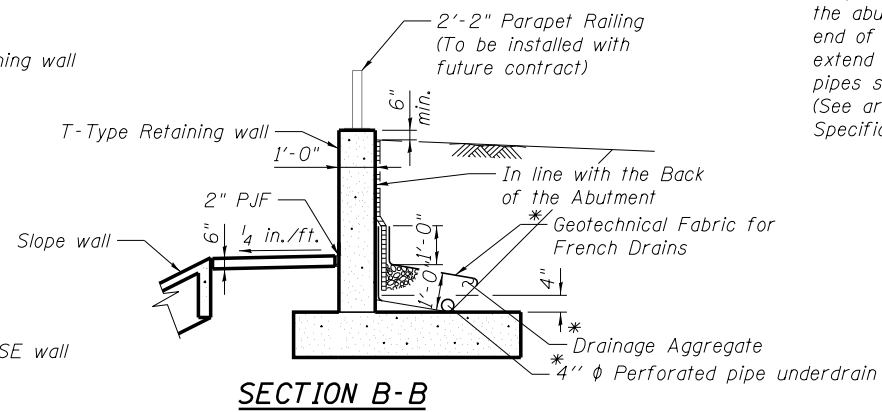
PROFILE GRADE CD ROAD
(Along Edge of Pavement)



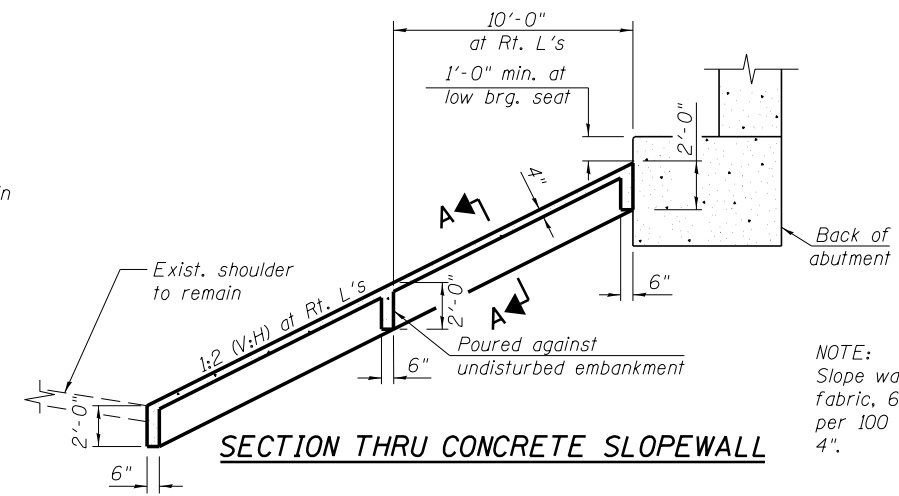
PROFILE GRADE SB IL-171
(Along SB IL-171)



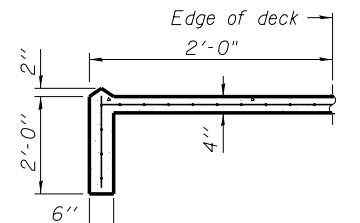
SECTION C-C



SECTION B-B

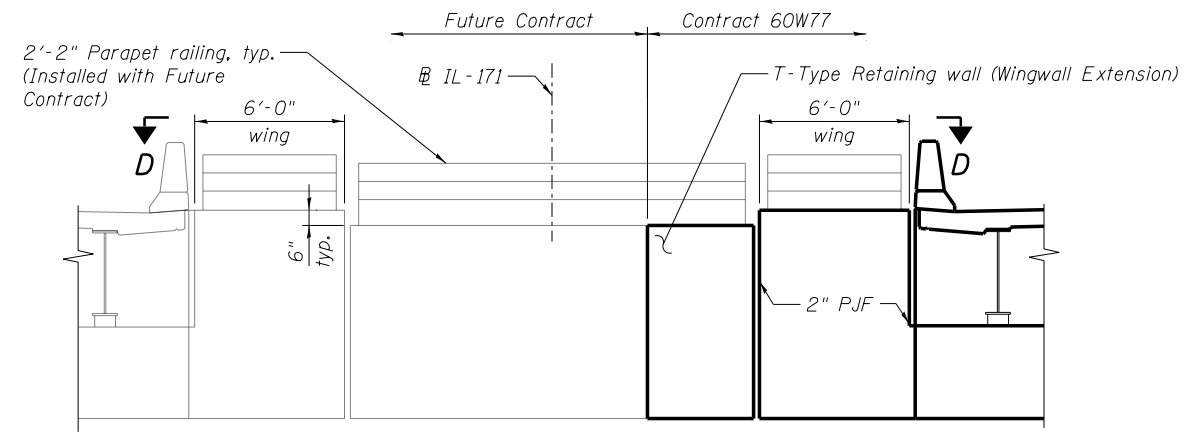


SECTION THRU CONCRETE SLOPEWALL

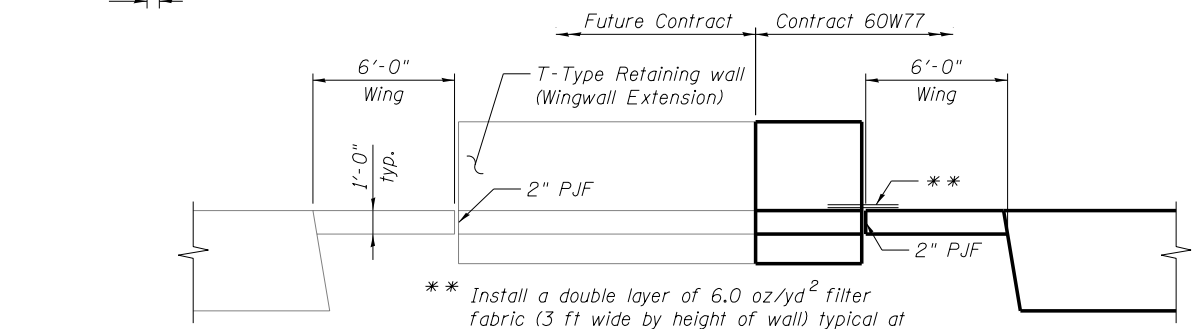


SECTION A-A

NOTE:
Slope wall shall be reinforced with welded wire fabric, 6" x 6" W4.0 x W4.0, weight 58 lbs. per 100 sq. ft. Cost included with Slope Wall 4".



WINGWALL AND RETAINING WALL ELEVATION
(South Abutment shown, North Abutment similar, opposite hand)



** Install a double layer of 6.0 oz/yd² filter fabric (3 ft wide by height of wall) typical at joints, cost included with Concrete Structures.

VIEW D-D



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

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0161510.60W77.003.GDeta1.s.dgn

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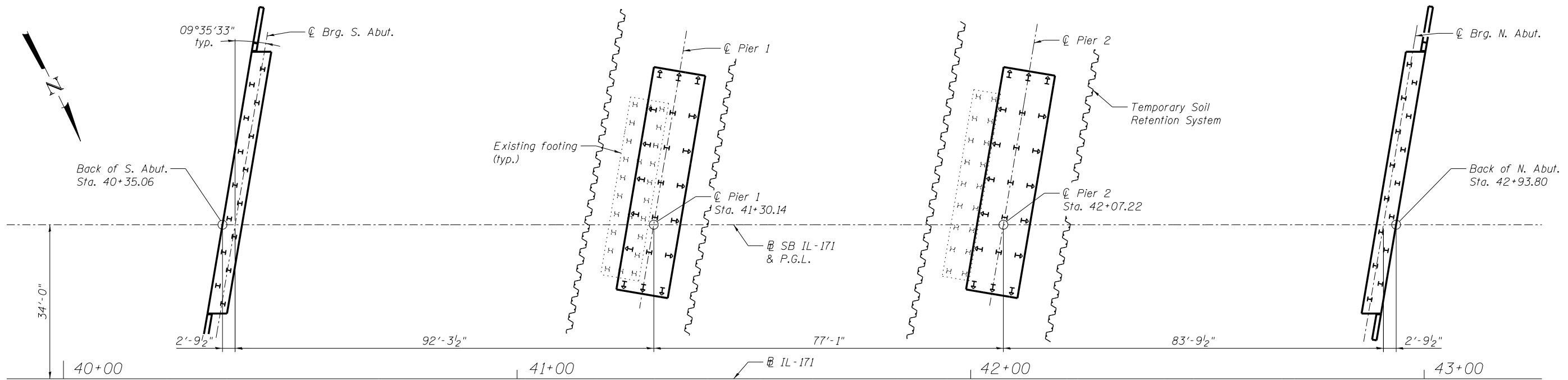
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DETAILS
STRUCTURE NO. 016-1510**

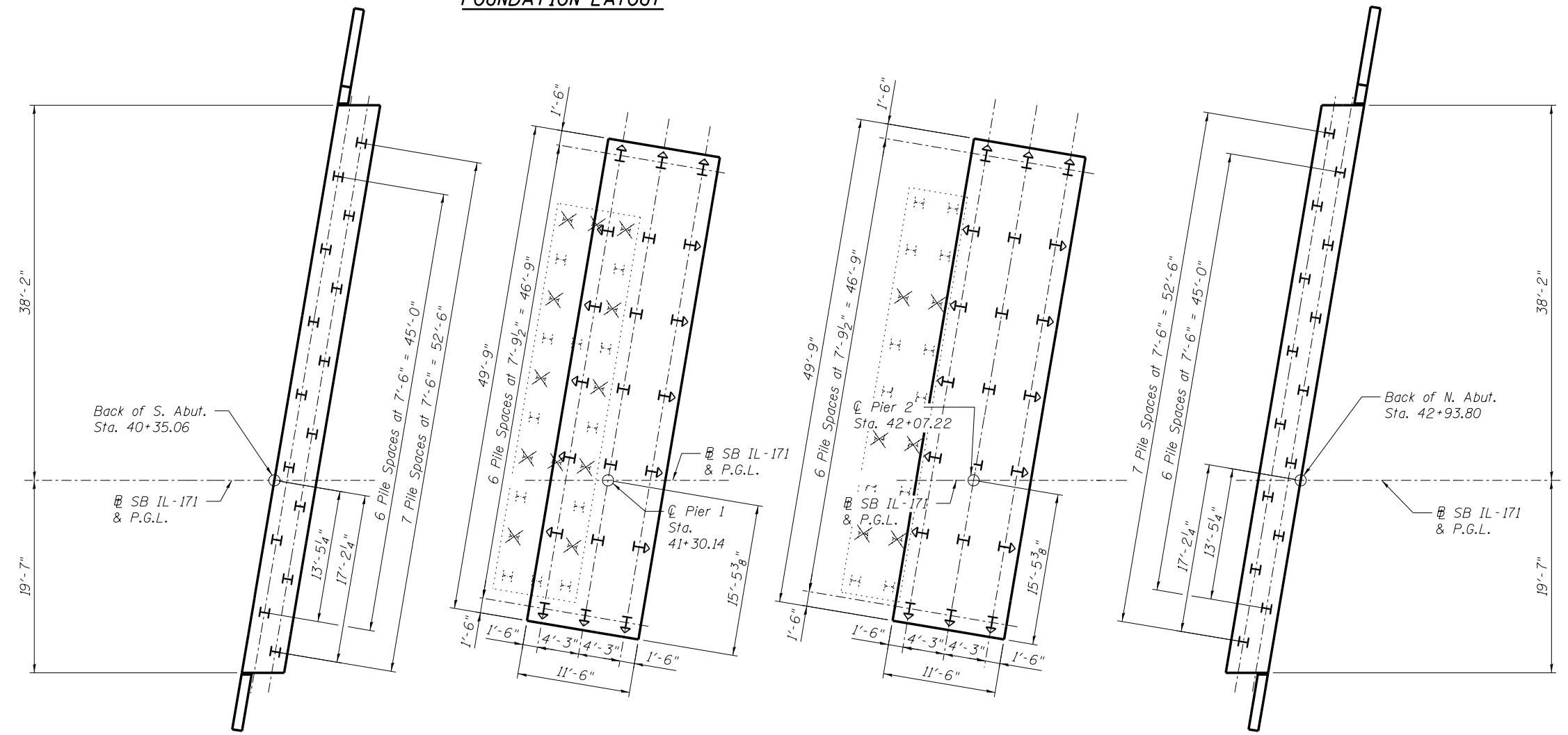
SHEET NO. SA3 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	68
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

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FOUNDATION LAYOUT



SOUTH ABUTMENT

PIER 1

PIER 2

NORTH ABUTMENT

FOUNDATION LAYOUT

Existing pile to be extracted. Holes created shall be filled with sand prior to driving proposed pile. Cost to be included with Removal of Existing Structures. (12 at Pier 1; 6 at Pier 2)



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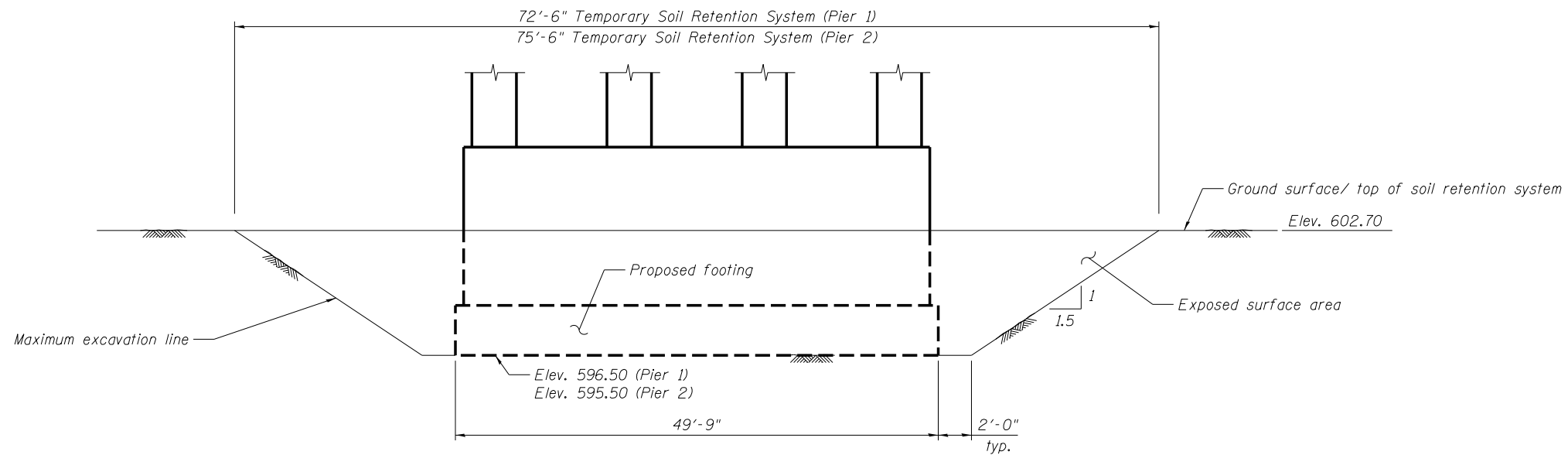
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		CHECKED - KWS/JHG	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FOUNDATION LAYOUT
STRUCTURE NO. 016-1510**

SHEET NO. SA4 OF SA43 SHEETS

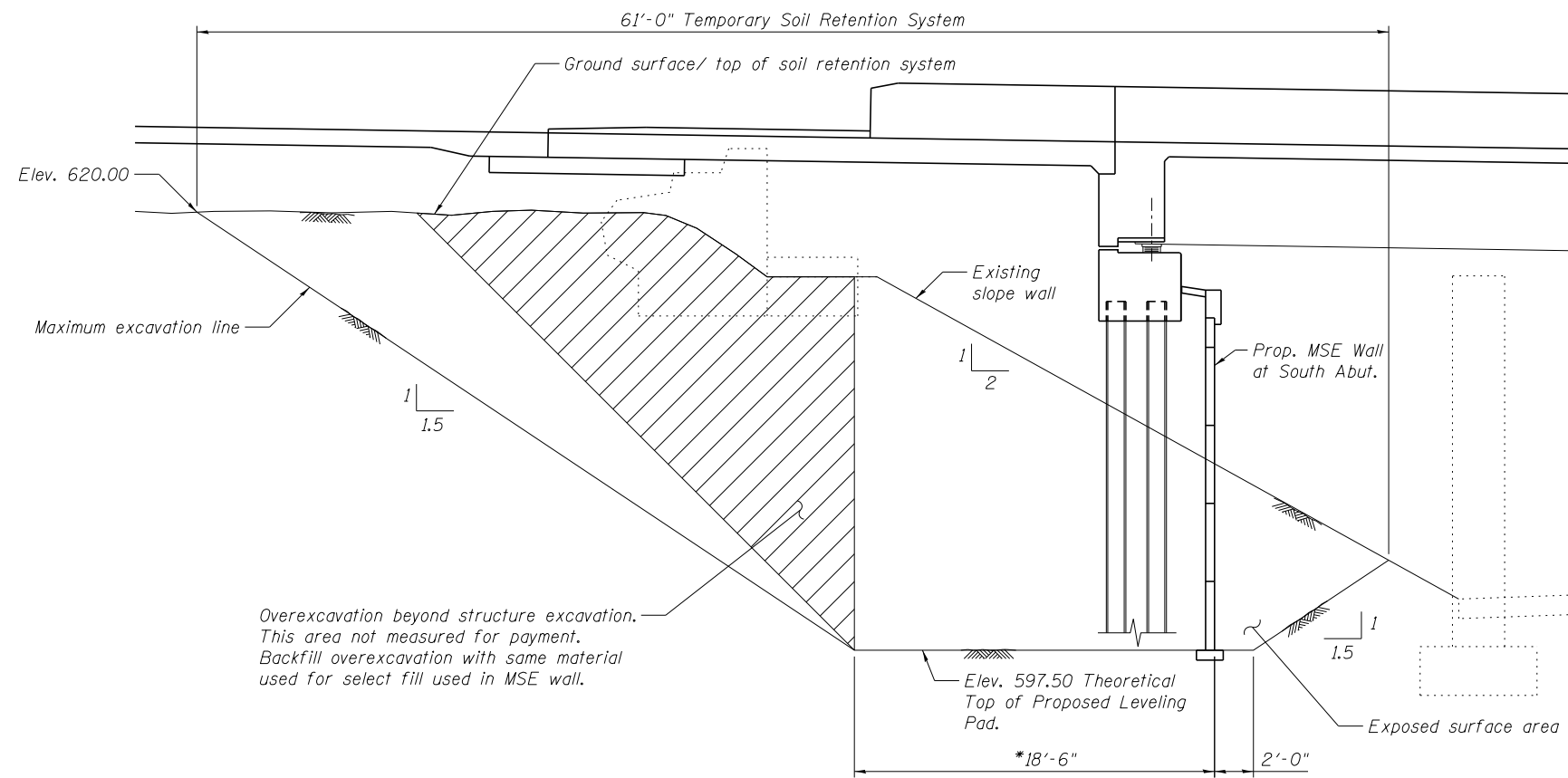
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	69
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	



PIER TEMPORARY SOIL RETENTION

NOTE:

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



Overexcavation beyond structure excavation. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.

* Limits of Temporary MSE Wall based on the length of 0.70x"H" for permanent MSE Wall. To be verified with MSE Wall supplier shop drawings.

MSE WALL TEMPORARY SOIL RETENTION

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq. Ft.	2344



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205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-965-0450 Job No. 10093

FILE NAME =
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PLOT DATE = 6/23/2014

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CHECKED - KWS

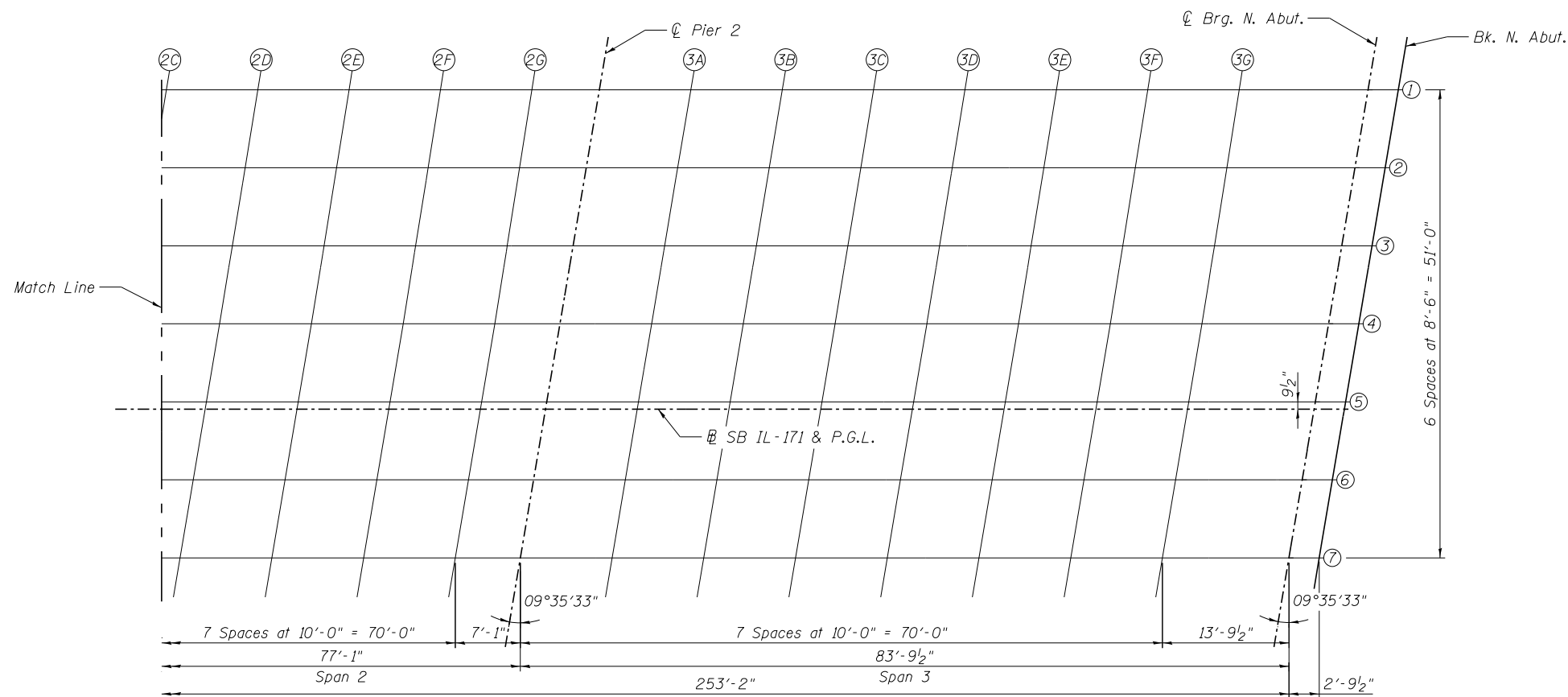
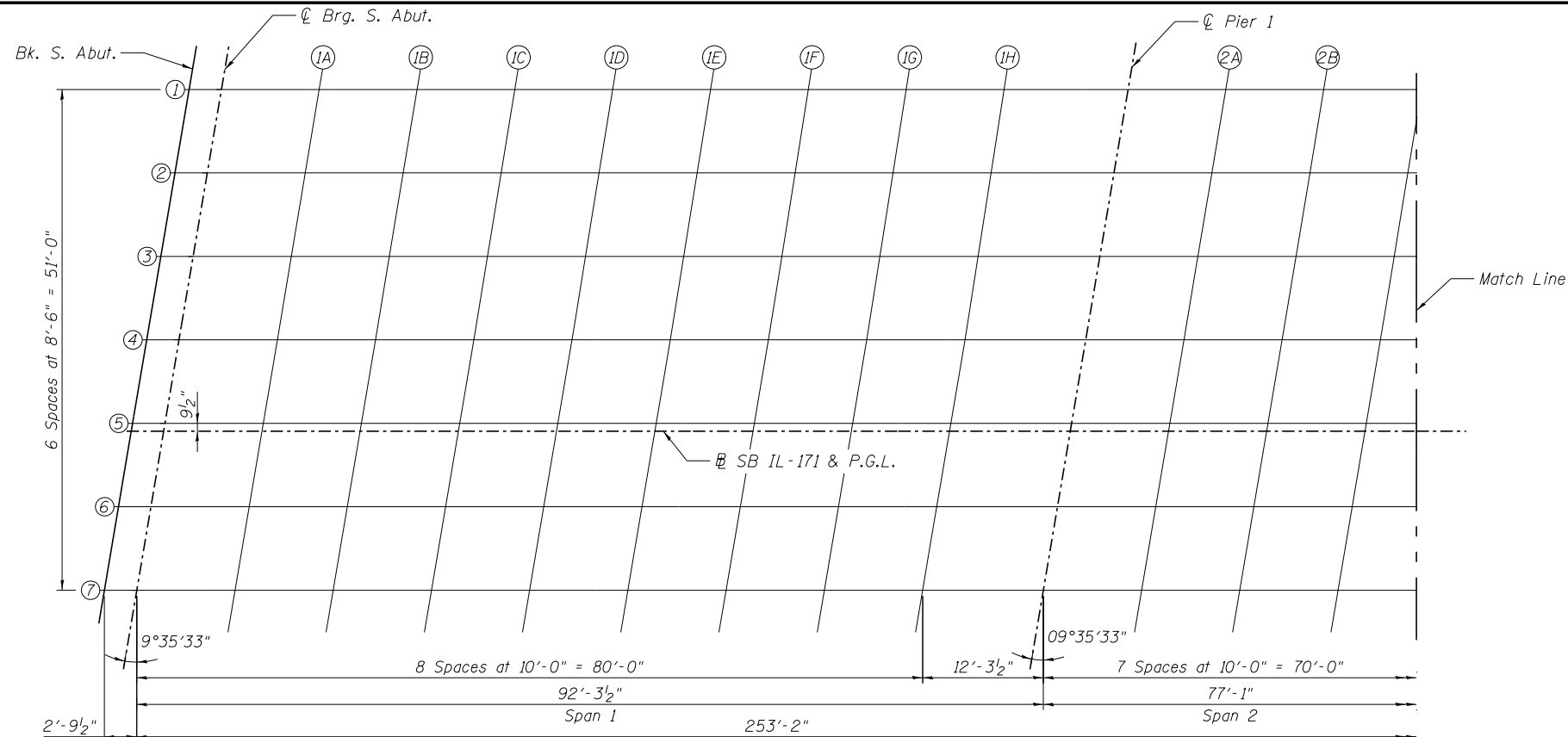
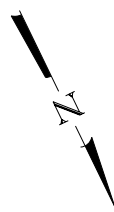
REVISED -
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REVISED -

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DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 016-1510

SHEET NO. SA5 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	70
CONTRACT NO. 60W77				ILLINOIS FED. AID PROJECT



PLAN



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Chicago, Illinois 60601
312-565-0450 Job No. 10093

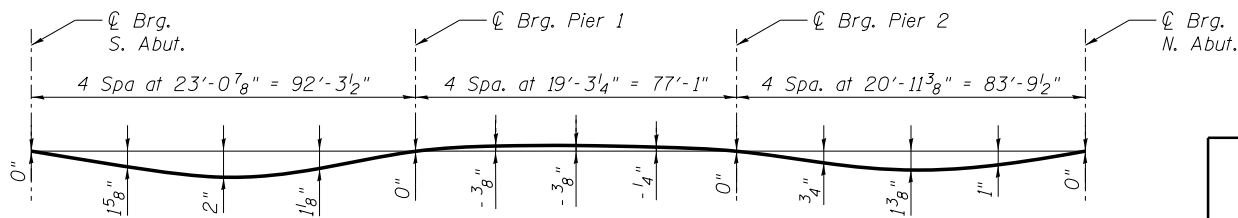
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	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - SLV	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS PLAN
STRUCTURE NO. 016-1510**

SHEET NO. SA6 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	71
				CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT				

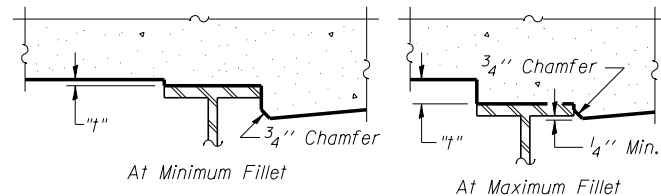


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown herein and on sheets SA8 & SA9. Negative values indicate an upward deflection.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown herein, and on sheet SA6. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown herein, and on sheets SA8 & SA9, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	40+40.94	-34.79	622.65	622.65
☉ Brg. S. Abut.	40+43.73	-34.79	622.66	622.66
1A	40+53.73	-34.79	622.72	622.79
1B	40+63.73	-34.79	622.76	622.88
1C	40+73.73	-34.79	622.80	622.96
1D	40+83.73	-34.79	622.83	623.00
1E	40+93.73	-34.79	622.85	623.01
1F	41+03.73	-34.79	622.86	623.00
1G	41+13.73	-34.79	622.86	622.96
1H	41+23.73	-34.79	622.86	622.90
☉ Brg. Pier 1	41+36.02	-34.79	622.84	622.84
2A	41+46.02	-34.79	622.81	622.79
2B	41+56.02	-34.79	622.78	622.75
2C	41+66.02	-34.79	622.74	622.71
2D	41+76.02	-34.79	622.68	622.66
2E	41+86.02	-34.79	622.62	622.60
2F	41+96.02	-34.79	622.55	622.53
2G	42+06.02	-34.79	622.48	622.47
☉ Brg. Pier 2	42+13.10	-34.79	622.42	622.42
3A	42+23.10	-34.79	622.33	622.36
3B	42+33.10	-34.79	622.24	622.30
3C	42+43.10	-34.79	622.15	622.24
3D	42+53.10	-34.79	622.06	622.17
3E	42+63.10	-34.79	621.97	622.08
3F	42+73.10	-34.79	621.88	621.97
3G	42+83.10	-34.79	621.79	621.85
☉ Brg. N. Abut.	42+96.89	-34.79	621.66	621.66
Bk. N. Abut.	42+99.68	-34.79	621.64	621.64

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	40+39.50	-26.29	622.81	622.81
☉ Brg. S. Abut.	40+42.29	-26.29	622.83	622.83
1A	40+52.29	-26.29	622.88	622.95
1B	40+62.29	-26.29	622.93	623.05
1C	40+72.29	-26.29	622.97	623.12
1D	40+82.29	-26.29	623.00	623.17
1E	40+92.29	-26.29	623.02	623.18
1F	41+02.29	-26.29	623.03	623.17
1G	41+12.29	-26.29	623.03	623.13
1H	41+22.29	-26.29	623.03	623.08
☉ Brg. Pier 1	41+34.58	-26.29	623.01	623.01
2A	41+44.58	-26.29	622.99	622.97
2B	41+54.58	-26.29	622.95	622.93
2C	41+64.58	-26.29	622.91	622.89
2D	41+74.58	-26.29	622.86	622.84
2E	41+84.58	-26.29	622.80	622.78
2F	41+94.58	-26.29	622.73	622.71
2G	42+04.58	-26.29	622.66	622.65
☉ Brg. Pier 2	42+11.66	-26.29	622.60	622.60
3A	42+21.66	-26.29	622.51	622.54
3B	42+31.66	-26.29	622.42	622.48
3C	42+41.66	-26.29	622.33	622.42
3D	42+51.66	-26.29	622.24	622.35
3E	42+61.66	-26.29	622.15	622.26
3F	42+71.66	-26.29	622.06	622.15
3G	42+81.66	-26.29	621.97	622.03
☉ Brg. N. Abut.	42+95.45	-26.29	621.85	621.85
Bk. N. Abut.	42+98.24	-26.29	621.82	621.82

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	72
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	40+38.07	-17.79	622.97	622.97
☉ Brg. S. Abut.	40+40.86	-17.79	622.99	622.99
1A	40+50.86	-17.79	623.04	623.11
1B	40+60.86	-17.79	623.09	623.21
1C	40+70.86	-17.79	623.13	623.29
1D	40+80.86	-17.79	623.16	623.34
1E	40+90.86	-17.79	623.19	623.35
1F	41+00.86	-17.79	623.20	623.33
1G	41+10.86	-17.79	623.20	623.30
1H	41+20.86	-17.79	623.20	623.25
☉ Brg. Pier 1	41+33.15	-17.79	623.18	623.18
2A	41+43.15	-17.79	623.16	623.14
2B	41+53.15	-17.79	623.13	623.10
2C	41+63.15	-17.79	623.09	623.06
2D	41+73.15	-17.79	623.04	623.01
2E	41+83.15	-17.79	622.98	622.96
2F	41+93.15	-17.79	622.92	622.89
2G	42+03.15	-17.79	622.84	622.83
☉ Brg. Pier 2	42+10.23	-17.79	622.78	622.78
3A	42+20.23	-17.79	622.69	622.72
3B	42+30.23	-17.79	622.60	622.66
3C	42+40.23	-17.79	622.51	622.61
3D	42+50.23	-17.79	622.42	622.53
3E	42+60.23	-17.79	622.33	622.45
3F	42+70.23	-17.79	622.24	622.34
3G	42+80.23	-17.79	622.15	622.21
☉ Brg. N. Abut.	42+94.02	-17.79	622.03	622.03
Bk. N. Abut.	42+96.81	-17.79	622.00	622.00

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	40+36.63	-9.29	623.12	623.12
☉ Brg. S. Abut.	40+39.42	-9.29	623.14	623.14
1A	40+49.42	-9.29	623.19	623.26
1B	40+59.42	-9.29	623.24	623.36
1C	40+69.42	-9.29	623.28	623.44
1D	40+79.42	-9.29	623.32	623.49
1E	40+89.42	-9.29	623.34	623.50
1F	40+99.42	-9.29	623.35	623.49
1G	41+09.42	-9.29	623.36	623.45
1H	41+19.42	-9.29	623.36	623.41
☉ Brg. Pier 1	41+31.71	-9.29	623.34	623.34
2A	41+41.71	-9.29	623.32	623.30
2B	41+51.71	-9.29	623.29	623.26
2C	41+61.71	-9.29	623.25	623.23
2D	41+71.71	-9.29	623.20	623.18
2E	41+81.71	-9.29	623.15	623.12
2F	41+91.71	-9.29	623.08	623.06
2G	42+01.71	-9.29	623.01	623.00
☉ Brg. Pier 2	42+08.79	-9.29	622.95	622.95
3A	42+18.79	-9.29	622.86	622.89
3B	42+28.79	-9.29	622.77	622.83
3C	42+38.79	-9.29	622.68	622.78
3D	42+48.79	-9.29	622.59	622.70
3E	42+58.79	-9.29	622.50	622.62
3F	42+68.79	-9.29	622.41	622.51
3G	42+78.79	-9.29	622.32	622.38
☉ Brg. N. Abut.	42+92.58	-9.29	622.20	622.20
Bk. N. Abut.	42+95.37	-9.29	622.17	622.17

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	40+35.19	-0.79	623.24	623.24
☉ Brg. S. Abut.	40+37.98	-0.79	623.25	623.25
1A	40+47.98	-0.79	623.31	623.38
1B	40+57.98	-0.79	623.36	623.48
1C	40+67.98	-0.79	623.41	623.56
1D	40+77.98	-0.79	623.44	623.61
1E	40+87.98	-0.79	623.46	623.63
1F	40+97.98	-0.79	623.48	623.62
1G	41+07.98	-0.79	623.49	623.58
1H	41+17.98	-0.79	623.49	623.53
☉ Brg. Pier 1	41+30.27	-0.79	623.47	623.47
2A	41+40.27	-0.79	623.45	623.43
2B	41+50.27	-0.79	623.42	623.40
2C	41+60.27	-0.79	623.39	623.36
2D	41+70.27	-0.79	623.34	623.31
2E	41+80.27	-0.79	623.28	623.26
2F	41+90.27	-0.79	623.22	623.20
2G	42+00.27	-0.79	623.15	623.14
☉ Brg. Pier 2	42+07.35	-0.79	623.09	623.09
3A	42+17.35	-0.79	623.00	623.03
3B	42+27.35	-0.79	622.91	622.97
3C	42+37.35	-0.79	622.82	622.92
3D	42+47.35	-0.79	622.73	622.84
3E	42+57.35	-0.79	622.64	622.76
3F	42+67.35	-0.79	622.55	622.65
3G	42+77.35	-0.79	622.46	622.52
☉ Brg. N. Abut.	42+91.14	-0.79	622.34	622.34
Bk. N. Abut.	42+93.93	-0.79	622.31	622.31



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FILE NAME =	USER NAME = ksnider	DESIGNED - KWS	REVISED -
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	PLOT DATE = 6/23/2014	CHECKED - SLV	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS (2 OF 3)
STRUCTURE NO. 016-1510**

SHEET NO. SA8 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	73
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

SB IL-171 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	40+35.06	0.00	623.25	623.25
☉ Brg. S. Abut.	40+37.85	0.00	623.27	623.27
IA	40+47.85	0.00	623.32	623.39
IB	40+57.85	0.00	623.37	623.49
IC	40+67.85	0.00	623.42	623.57
ID	40+77.85	0.00	623.45	623.62
IE	40+87.85	0.00	623.48	623.64
IF	40+97.85	0.00	623.49	623.63
IG	41+07.85	0.00	623.50	623.59
IH	41+17.85	0.00	623.50	623.55
☉ Brg. Pier 1	41+30.14	0.00	623.49	623.49
2A	41+40.14	0.00	623.46	623.44
2B	41+50.14	0.00	623.44	623.41
2C	41+60.14	0.00	623.40	623.37
2D	41+70.14	0.00	623.35	623.33
2E	41+80.14	0.00	623.30	623.27
2F	41+90.14	0.00	623.23	623.21
2G	42+00.14	0.00	623.16	623.15
☉ Brg. Pier 2	42+07.22	0.00	623.10	623.10
3A	42+17.22	0.00	623.02	623.05
3B	42+27.22	0.00	622.93	622.99
3C	42+37.22	0.00	622.84	622.93
3D	42+47.22	0.00	622.75	622.85
3E	42+57.22	0.00	622.66	622.77
3F	42+67.22	0.00	622.57	622.66
3G	42+77.22	0.00	622.48	622.54
☉ Brg. N. Abut.	42+91.01	0.00	622.35	622.35
Bk. N. Abut.	42+93.80	0.00	622.33	622.33

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	40+33.76	7.71	623.13	623.13
☉ Brg. S. Abut.	40+36.55	7.71	623.14	623.14
IA	40+46.55	7.71	623.20	623.27
IB	40+56.55	7.71	623.25	623.37
IC	40+66.55	7.71	623.30	623.45
ID	40+76.55	7.71	623.33	623.50
IE	40+86.55	7.71	623.36	623.52
IF	40+96.55	7.71	623.37	623.51
IG	41+06.55	7.71	623.38	623.48
IH	41+16.55	7.71	623.38	623.43
☉ Brg. Pier 1	41+28.84	7.71	623.37	623.37
2A	41+38.84	7.71	623.35	623.33
2B	41+48.84	7.71	623.32	623.30
2C	41+58.84	7.71	623.29	623.26
2D	41+68.84	7.71	623.24	623.22
2E	41+78.84	7.71	623.19	623.16
2F	41+88.84	7.71	623.13	623.10
2G	41+98.84	7.71	623.05	623.04
☉ Brg. Pier 2	42+05.92	7.71	623.00	623.00
3A	42+15.92	7.71	622.91	622.94
3B	42+25.92	7.71	622.82	622.88
3C	42+35.92	7.71	622.73	622.82
3D	42+45.92	7.71	622.64	622.75
3E	42+55.92	7.71	622.55	622.67
3F	42+65.92	7.71	622.46	622.55
3G	42+75.92	7.71	622.37	622.43
☉ Brg. N. Abut.	42+89.71	7.71	622.25	622.25
Bk. N. Abut.	42+92.50	7.71	622.22	622.22

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	40+32.32	16.21	622.97	622.97
☉ Brg. S. Abut.	40+35.11	16.21	622.99	622.99
IA	40+45.11	16.21	623.04	623.11
IB	40+55.11	16.21	623.10	623.22
IC	40+65.11	16.21	623.14	623.30
ID	40+75.11	16.21	623.18	623.35
IE	40+85.11	16.21	623.21	623.37
IF	40+95.11	16.21	623.22	623.36
IG	41+05.11	16.21	623.23	623.33
IH	41+15.11	16.21	623.24	623.28
☉ Brg. Pier 1	41+27.40	16.21	623.23	623.23
2A	41+37.40	16.21	623.21	623.19
2B	41+47.40	16.21	623.18	623.15
2C	41+57.40	16.21	623.14	623.12
2D	41+67.40	16.21	623.10	623.07
2E	41+77.40	16.21	623.05	623.02
2F	41+87.40	16.21	622.99	622.97
2G	41+97.40	16.21	622.92	622.91
☉ Brg. Pier 2	42+04.48	16.21	622.86	622.86
3A	42+14.48	16.21	622.78	622.81
3B	42+24.48	16.21	622.69	622.75
3C	42+34.48	16.21	622.60	622.69
3D	42+44.48	16.21	622.51	622.61
3E	42+54.48	16.21	622.42	622.53
3F	42+64.48	16.21	622.33	622.42
3G	42+74.48	16.21	622.24	622.30
☉ Brg. N. Abut.	42+88.27	16.21	622.11	622.11
Bk. N. Abut.	42+91.06	16.21	622.09	622.09



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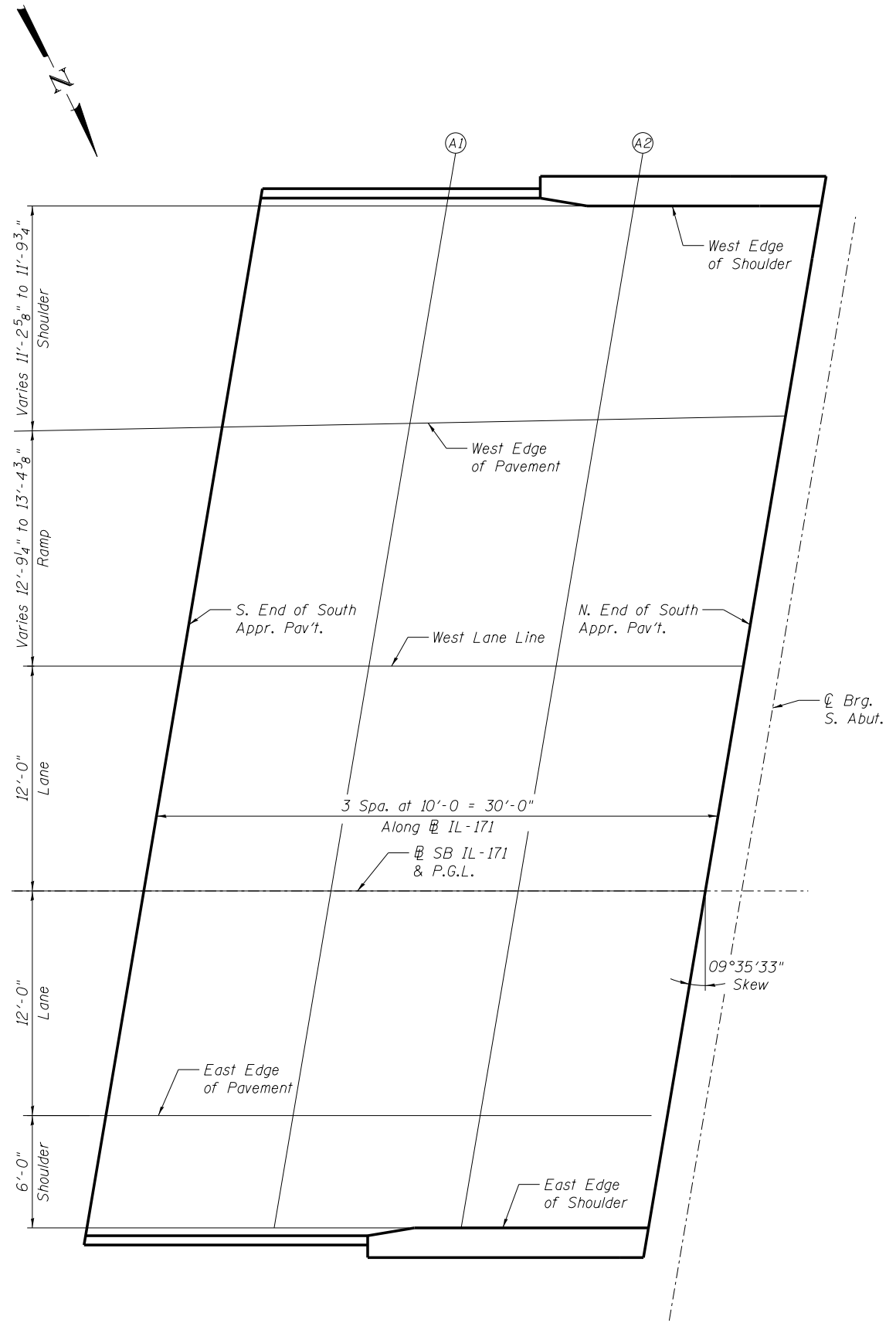
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS (3 OF 3)
STRUCTURE NO. 016-1510**

SHEET NO. SA9 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	74
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	



PLAN
South Approach



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		CHECKED - SLV	REVISED -

STATE OF ILLINOIS
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TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-1510

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Pav't.	40+12.26	-36.58	622.45
A1	40+22.26	-36.58	622.50
A2	40+32.26	-36.58	622.56
N. End of South Appr. Pav't.	40+42.26	-36.58	622.62

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Pav't.	40+10.26	-24.77	622.67
A1	40+20.29	-24.97	622.72
A2	40+30.33	-25.17	622.78
N. End of South Appr. Pav't.	40+40.36	-25.36	622.83

WEST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Pav't.	40+08.10	-12.00	622.91
A1	40+18.10	-12.00	622.97
A2	40+28.10	-12.00	623.03
N. End of South Appr. Pav't.	40+38.10	-12.00	623.09

SB IL-171 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Pav't.	40+06.08	0.00	623.08
A1	40+16.08	0.00	623.14
A2	40+26.08	0.00	623.20
N. End of South Appr. Pav't.	40+36.08	0.00	623.26

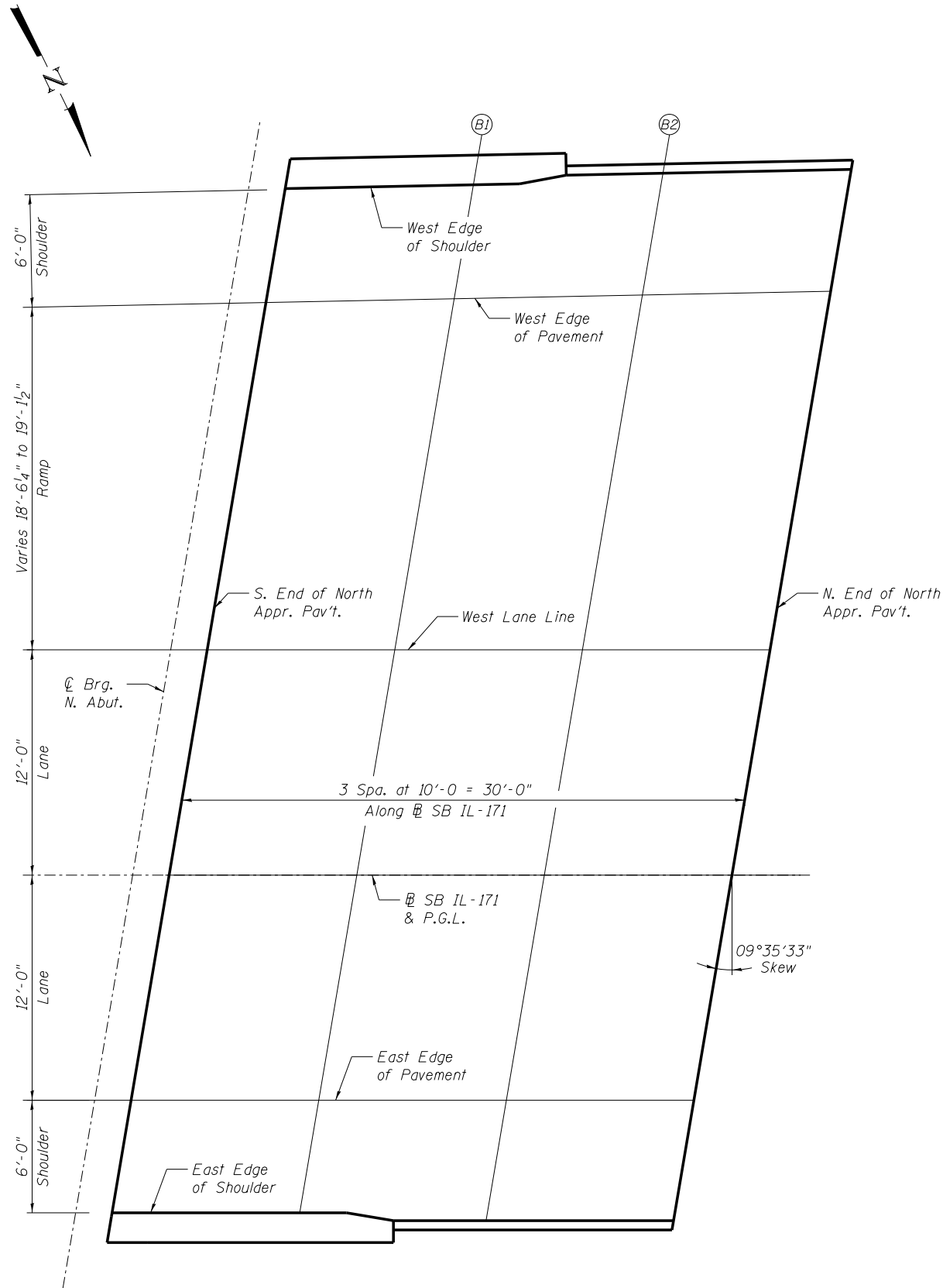
EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Pav't.	40+04.05	12.00	622.89
A1	40+14.05	12.00	622.95
A2	40+24.05	12.00	623.01
N. End of South Appr. Pav't.	40+34.05	12.00	623.06

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Pav't.	40+03.03	18.00	622.76
A1	40+13.03	18.00	622.82
A2	40+23.03	18.00	622.88
N. End of South Appr. Pav't.	40+33.03	18.00	622.94

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PLAN
North Approach

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Pav't.	42+98.97	-36.58	621.61
B1	43+09.00	-36.77	621.51
B2	43+19.03	-36.96	621.42
N. End of North Appr. Pav't.	43+29.06	-37.15	621.33

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Pav't.	42+97.94	-30.53	621.74
B1	43+07.98	-30.73	621.64
B2	43+18.01	-30.93	621.55
N. End of North Appr. Pav't.	43+28.04	-31.12	621.46

WEST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Pav't.	42+94.81	-12.00	622.14
B1	43+04.81	-12.00	622.05
B2	43+14.81	-12.00	621.96
N. End of North Appr. Pav't.	43+24.81	-12.00	621.87

SB IL-171 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Pav't.	42+92.78	0.00	622.33
B1	43+02.78	0.00	622.24
B2	43+12.78	0.00	622.15
N. End of North Appr. Pav't.	43+22.78	0.00	622.06

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Pav't.	42+90.76	12.00	622.17
B1	43+00.76	12.00	622.08
B2	43+10.76	12.00	621.99
N. End of North Appr. Pav't.	43+20.76	12.00	621.90

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Pav't.	42+89.74	18.00	622.06
B1	42+99.74	18.00	621.97
B2	43+09.74	18.00	621.88
N. End of North Appr. Pav't.	43+19.74	18.00	621.79



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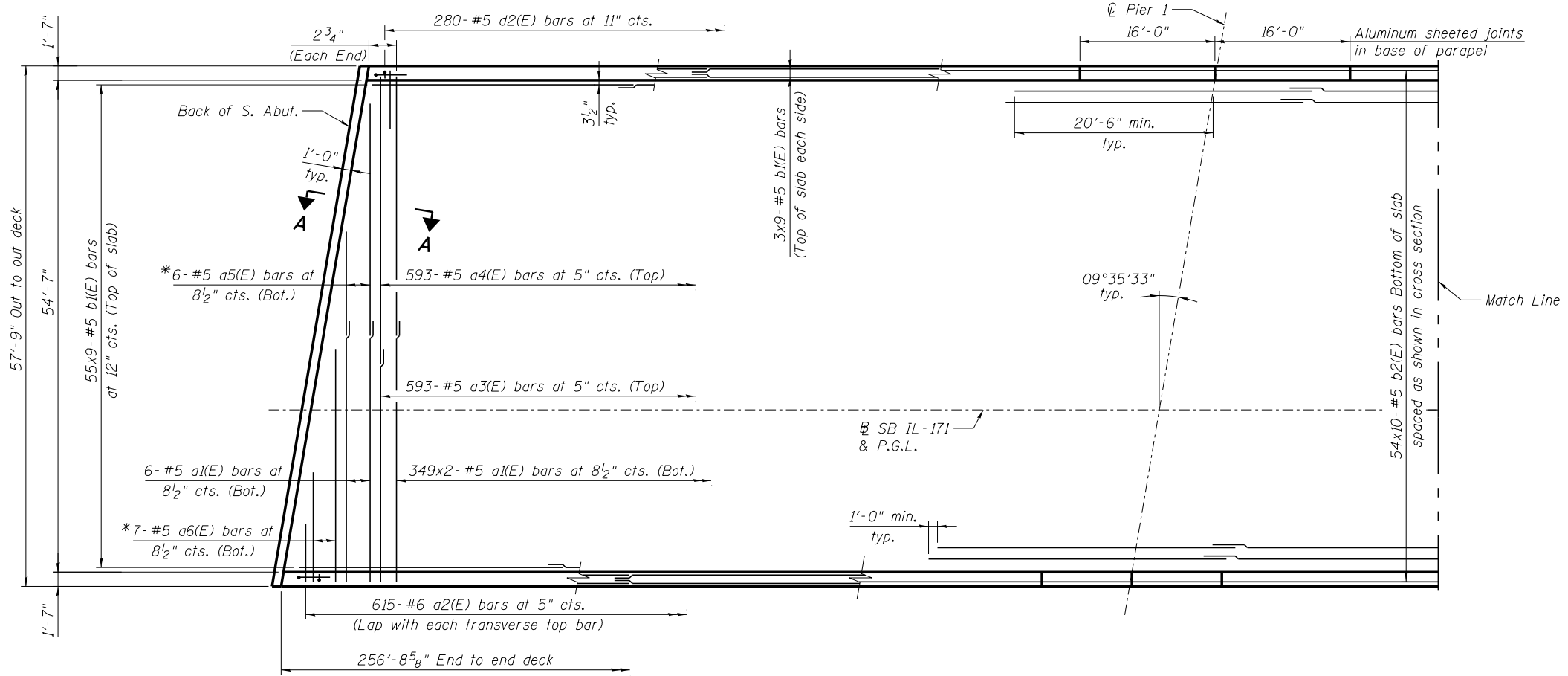
STATE OF ILLINOIS
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TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-1510

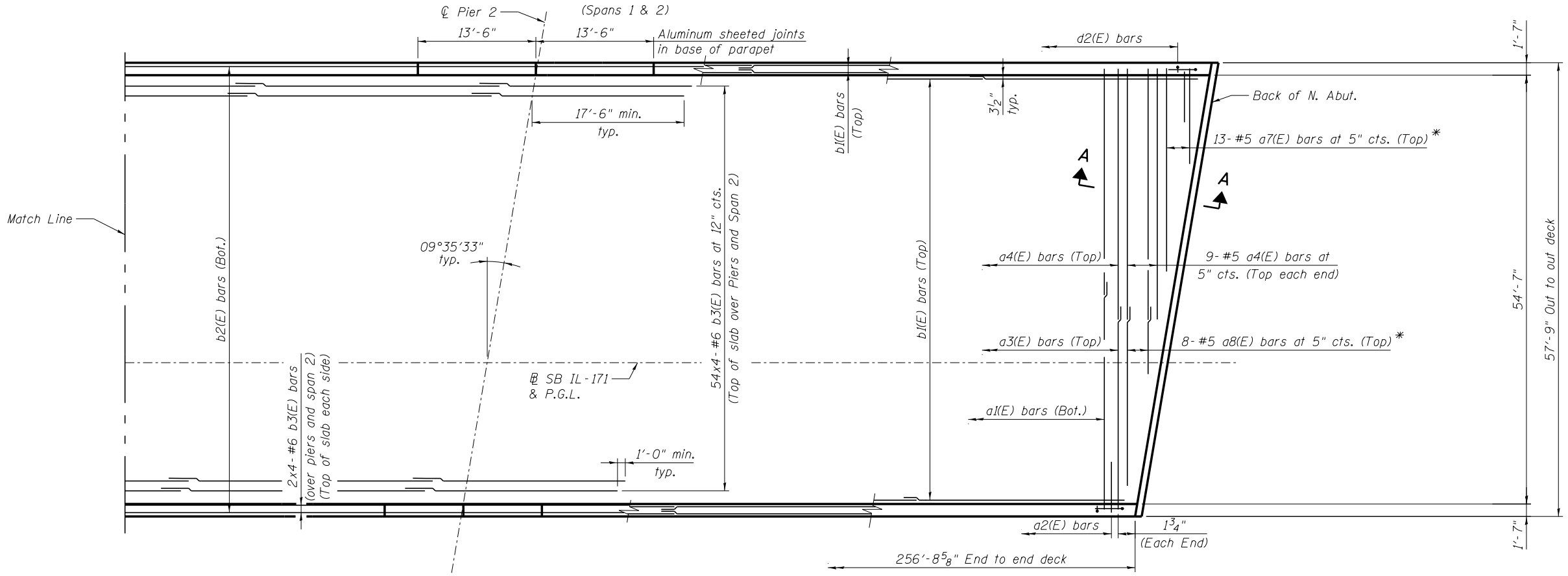
SHEET NO. SA11 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				

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PLAN
(Spans 1 & 2)



PLAN
(Spans 2 & 3)

NOTES:

1. See sheet SA15 for superstructure details and Bill of Materials.
2. See sheet SA13 for Deck Cross Section
3. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
4. See sheet SA14 for parapet reinforcement.

MINIMUM BAR LAP

(Slab)
#5 bar = 3'-3"
#6 bar = 3'-10"

* Order a5(E) thru a8(E) bars full length. Cut to fit skew and use remainder of bars on opposite end.



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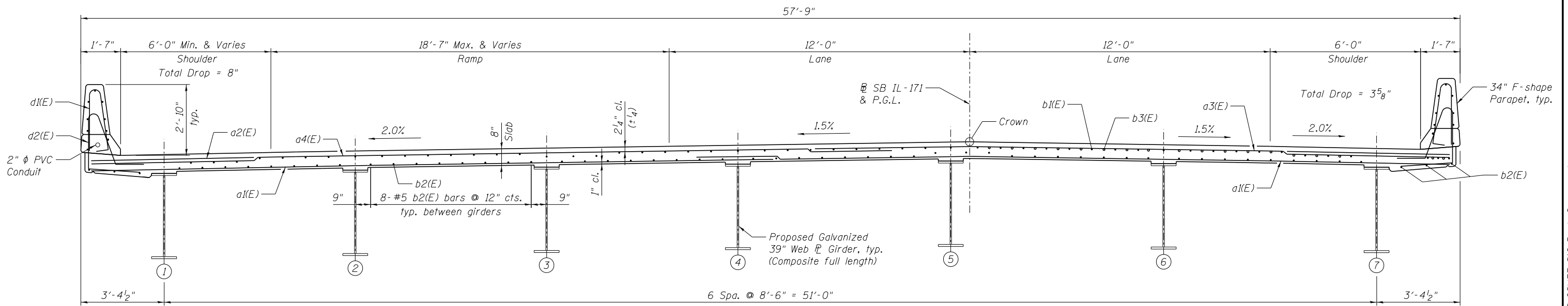
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REINFORCEMENT PLAN
STRUCTURE NO. 016-1510

SHEET NO. SA12 OF SA43 SHEETS

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CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

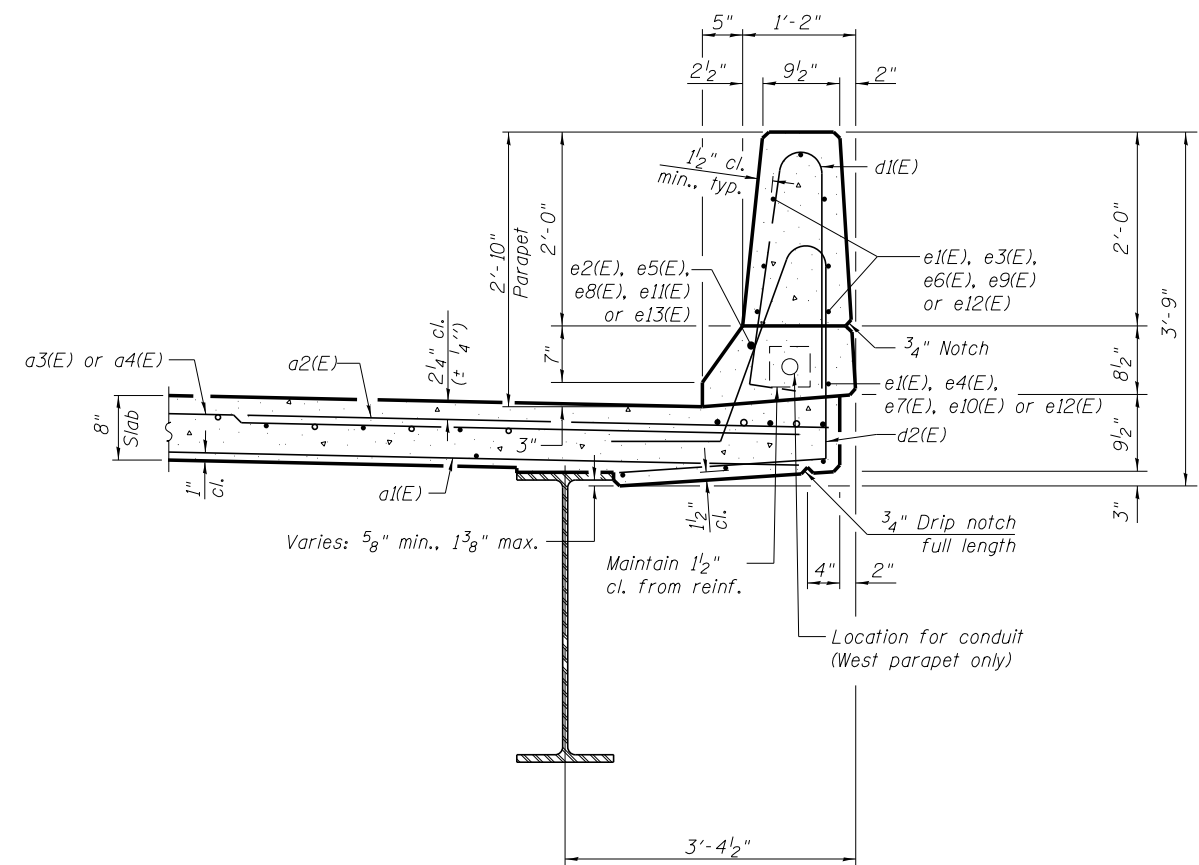
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NEAR MIDSPAN

DECK CROSS SECTION
(Looking North)

NEAR PIER



SECTION THRU EAST PARAPET
(West parapet similar)

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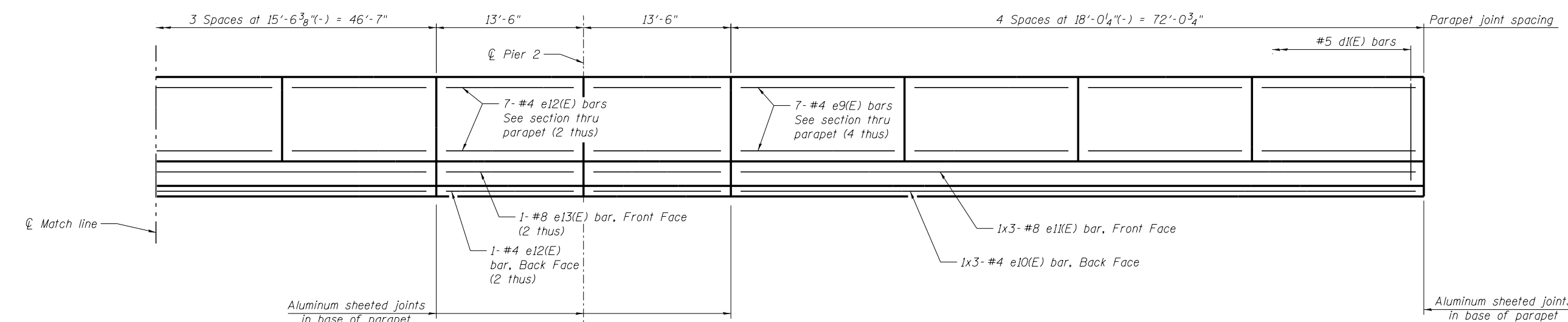
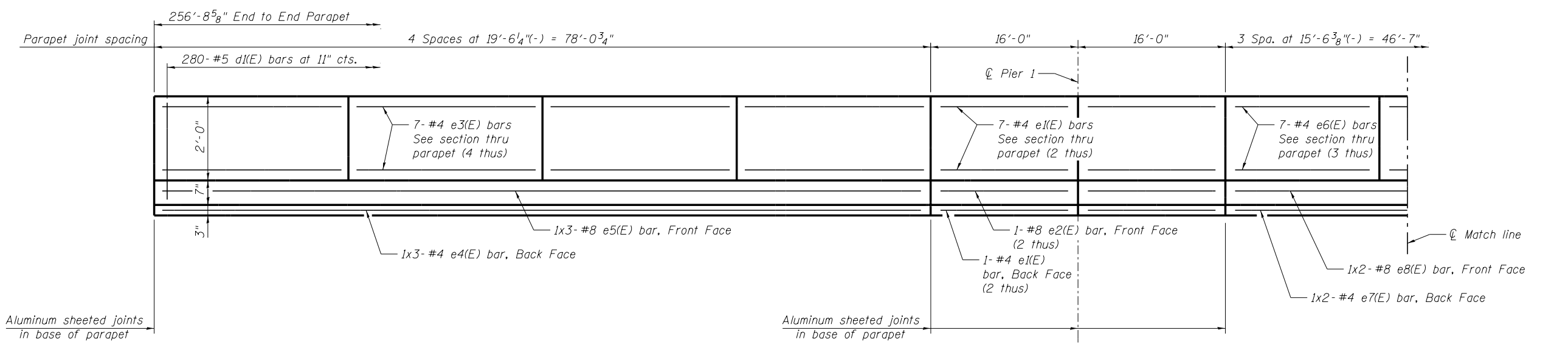
STATE OF ILLINOIS
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DECK CROSS SECTION AND DETAILS
STRUCTURE NO. 016-1510

SHEET NO. SA13 OF SA43 SHEETS

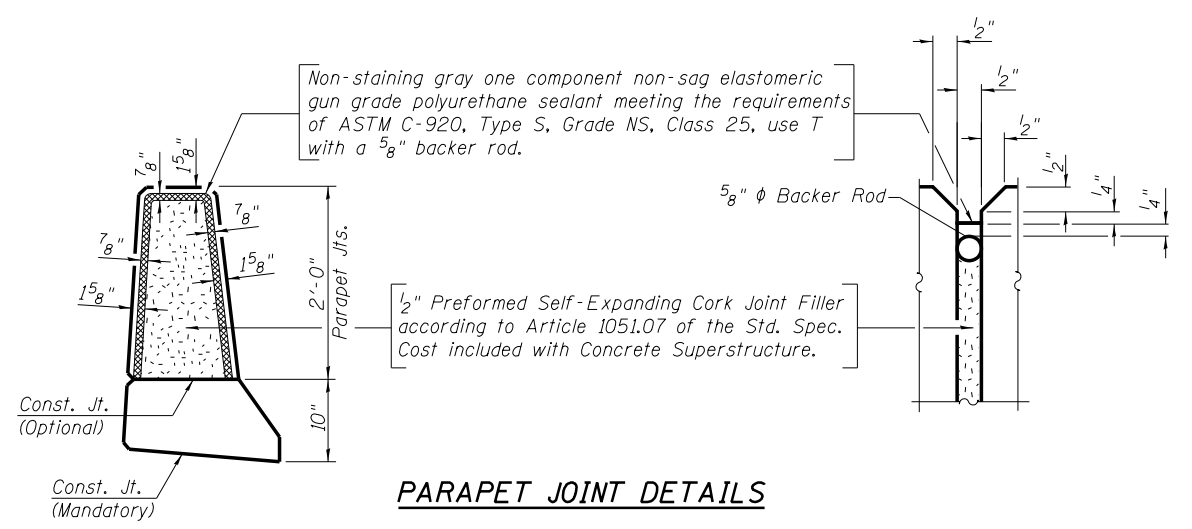
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INSIDE ELEVATION OF PARAPET
(West parapet shown, east parapet similar)

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



PARAPET JOINT DETAILS

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PARAPET DETAILS
STRUCTURE NO. 016-1510

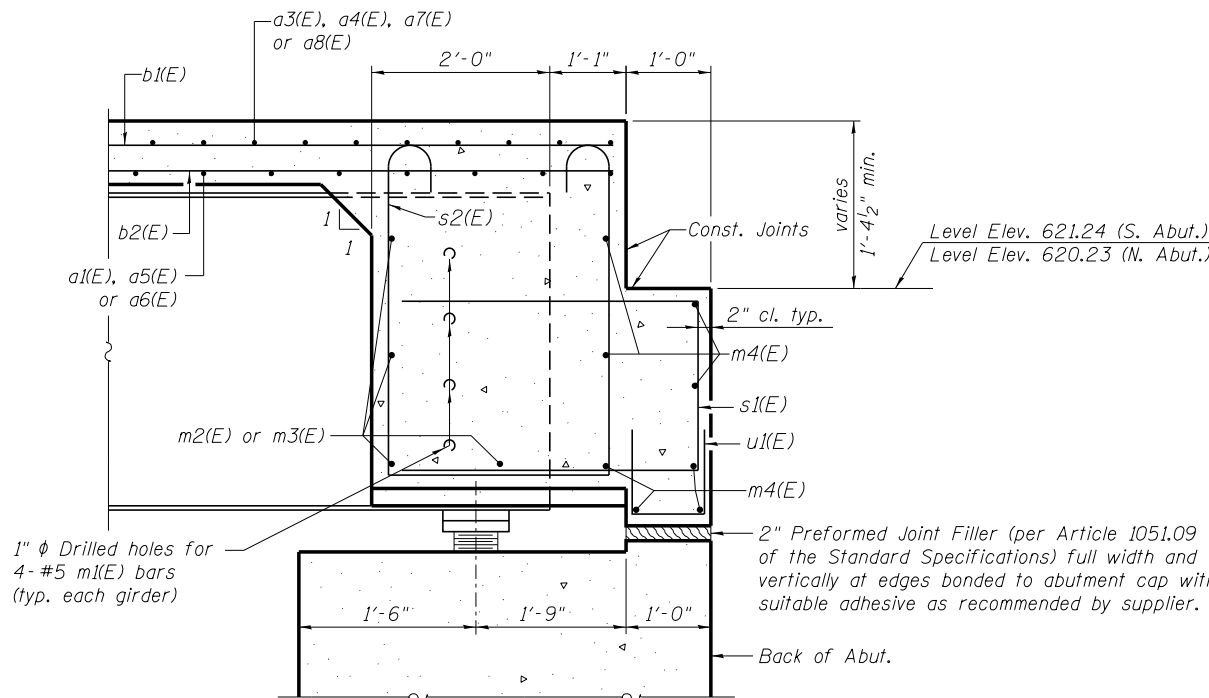
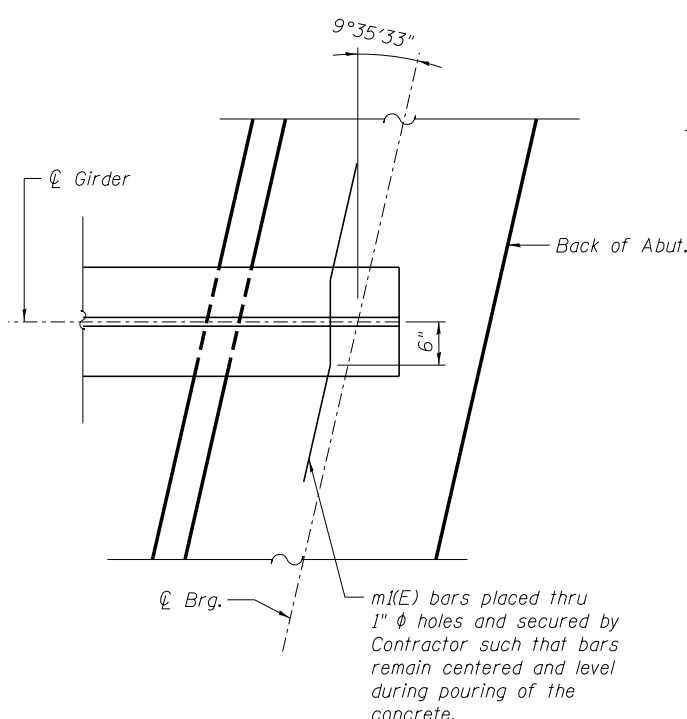
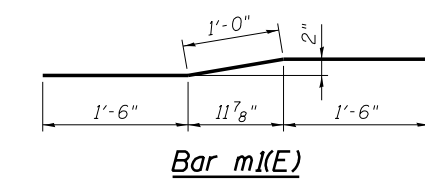
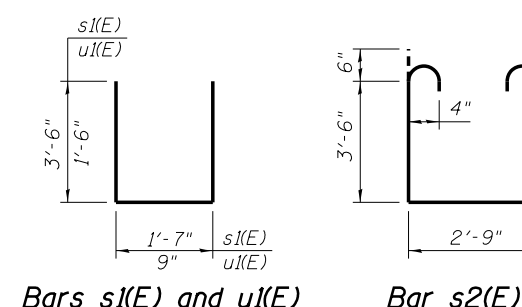
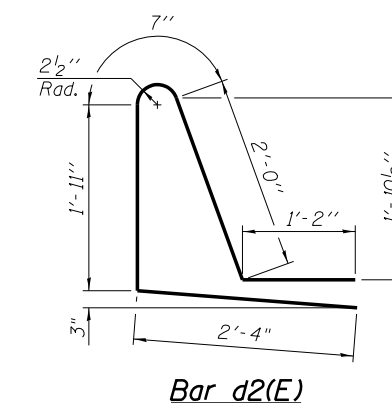
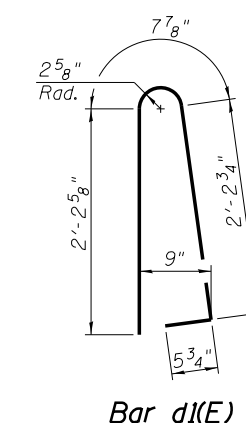
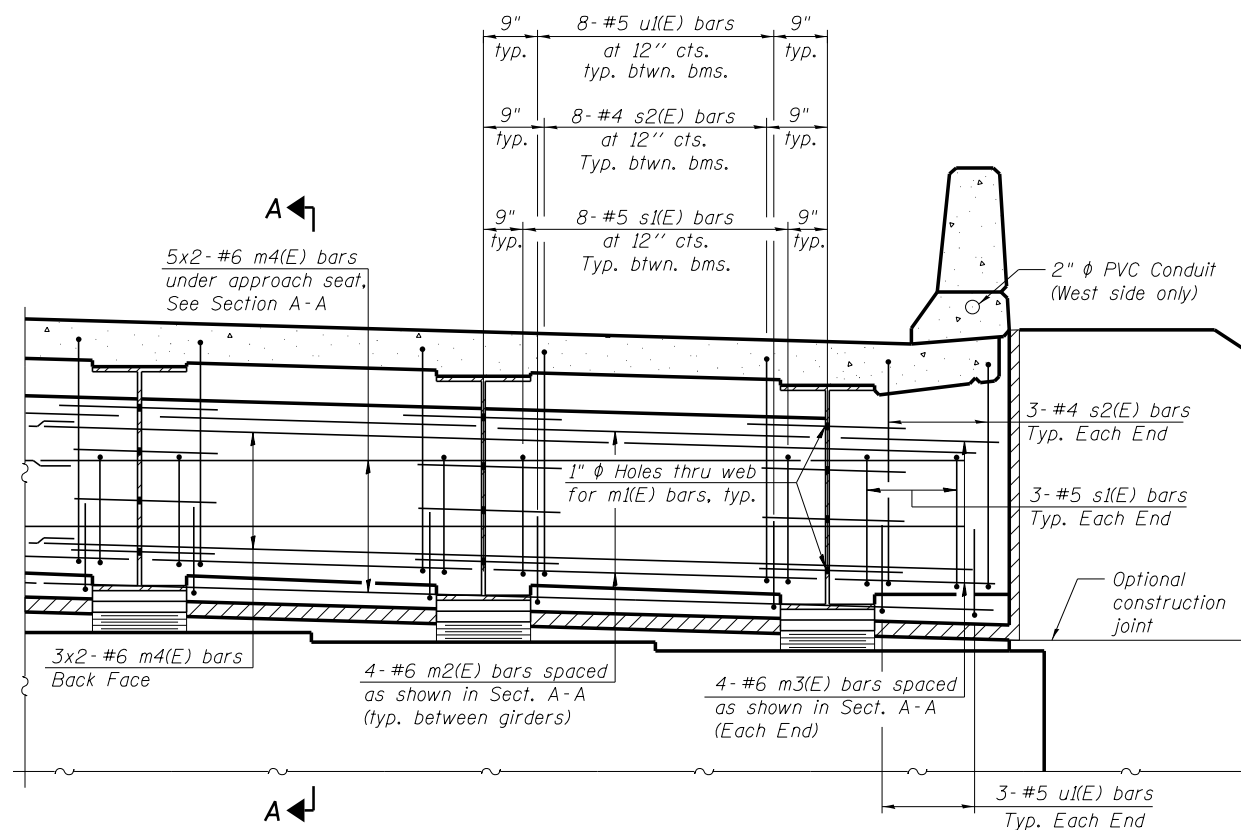
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				CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT				

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**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	710	#5	30'-3"	—
a2(E)	1230	#6	6'-6"	—
a3(E)	593	#5	26'-0"	—
a4(E)	611	#5	34'-6"	—
a5(E)	6	#5	32'-2"	—
a6(E)	7	#5	31'-8"	—
a7(E)	13	#5	35'-7"	—
a8(E)	8	#5	29'-9"	—
b1(E)	549	#5	31'-6"	—
b2(E)	540	#5	28'-9"	—
b3(E)	232	#6	32'-2"	—
d1(E)	560	#5	5'-7"	⌒
d2(E)	560	#5	8'-0"	⌒
e1(E)	32	#4	15'-8"	—
e2(E)	4	#8	15'-8"	—
e3(E)	56	#4	19'-2"	—
e4(E)	6	#4	27'-4"	—
e5(E)	6	#8	29'-5"	—
e6(E)	42	#4	15'-2"	—
e7(E)	4	#4	24'-2"	—
e8(E)	4	#8	25'-9"	—
e9(E)	56	#4	17'-8"	—
e10(E)	6	#4	25'-4"	—
e11(E)	6	#8	27'-5"	—
e12(E)	32	#4	13'-2"	—
e13(E)	4	#8	13'-2"	—
m1(E)	56	#5	4'-0"	⌒
m2(E)	48	#6	8'-3"	—
m3(E)	16	#6	3'-0"	—
m4(E)	32	#6	30'-11"	—
s1(E)	108	#5	8'-7"	⌒
s2(E)	108	#4	10'-9"	⌒
u1(E)	108	#5	3'-9"	⌒
Concrete Superstructure			Cu. Yd.	504.9
Reinforcement Bars, Epoxy Coated			Pound	135,760



SECTION A-A
Dimensions at right angles to abutment, except as shown.

MIN. BAR LAP
#6 bar = 3'-4"

- NOTES:**
- Concrete in diaphragm is included with Concrete Superstructure.
 - The s1(E) and s2(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



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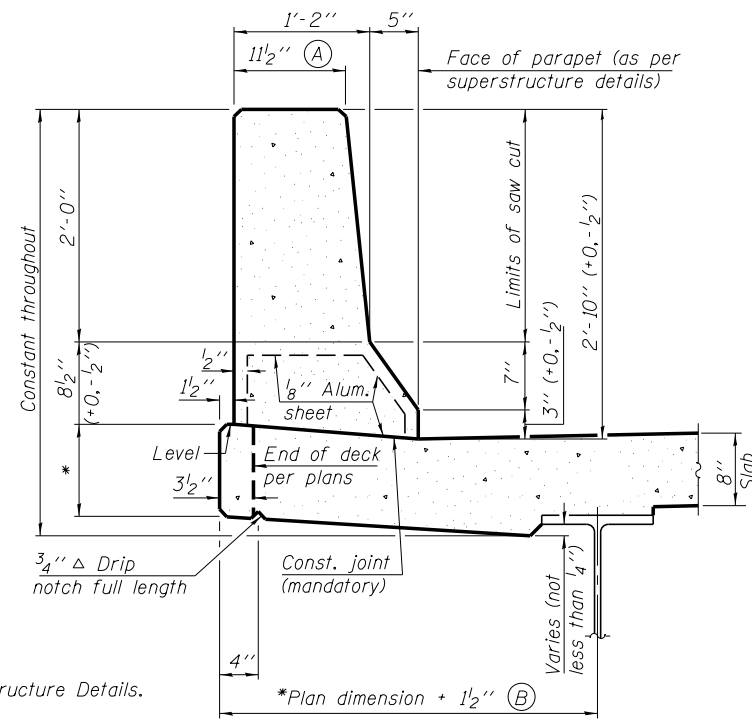
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**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 016-1510**
SHEET NO. SA15 OF SA43 SHEETS

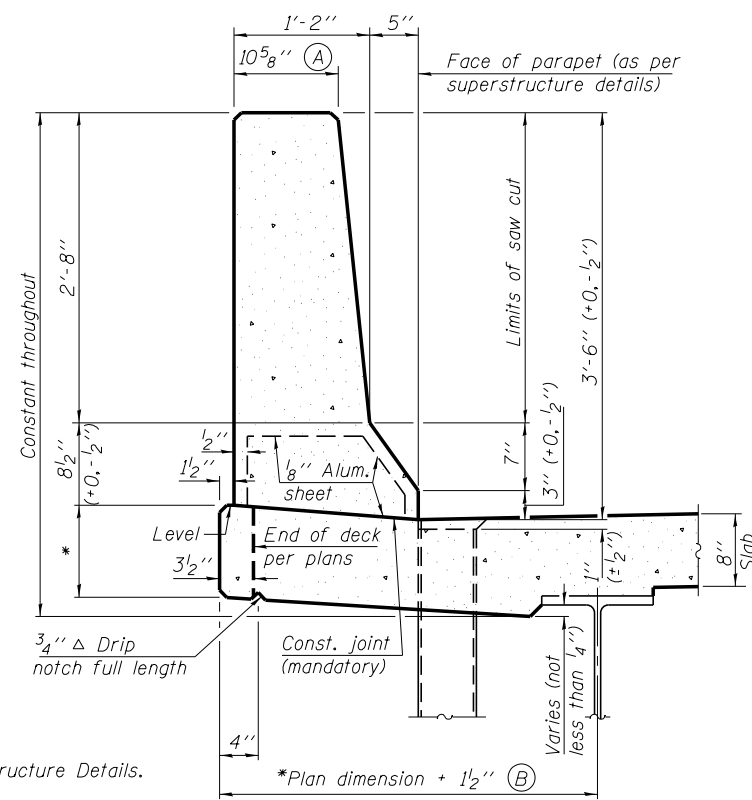
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CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

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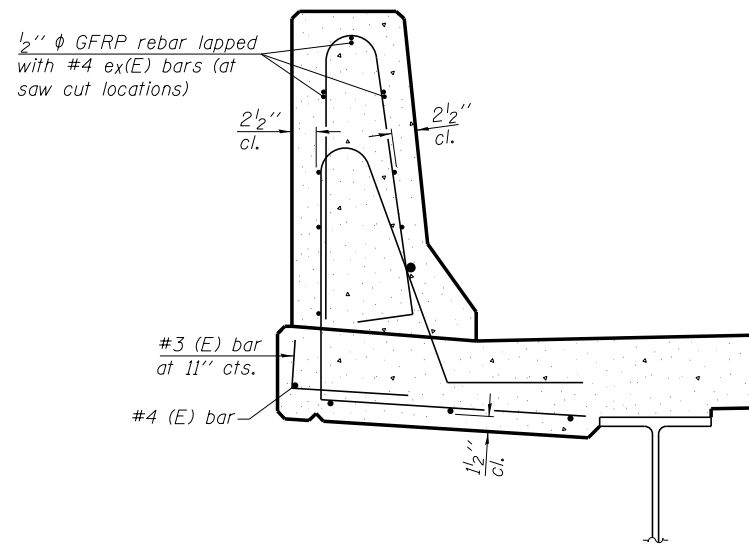
34" F SHAPE PARAPET SECTION
(Showing dimensions)

*See Superstructure Details.



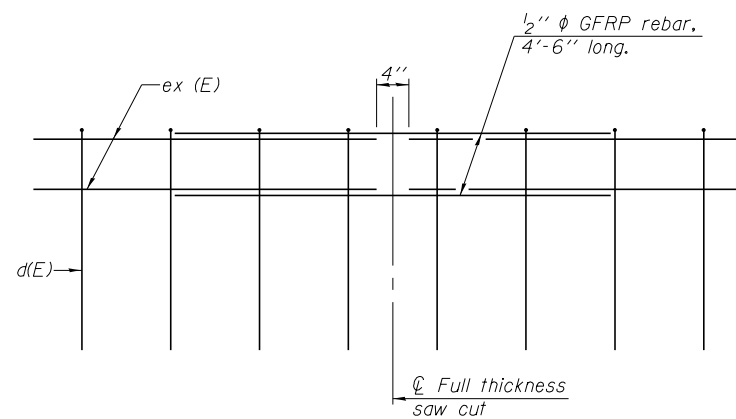
42" F SHAPE PARAPET SECTION
(Showing dimensions)

*See Superstructure Details.



SECTION

(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

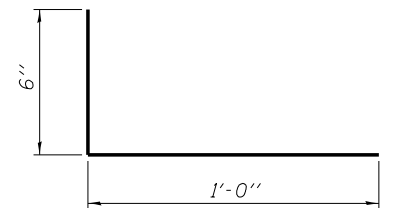


GFRP REBAR STIFFENING DETAIL

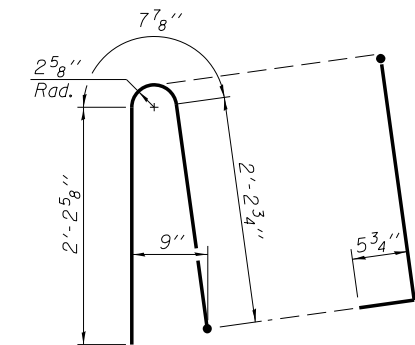
(Place as shown in parapet section at each parapet joint location.)

GENERAL NOTES

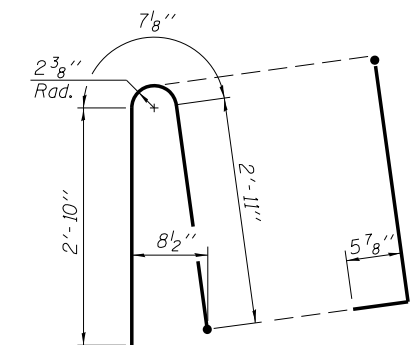
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet.
Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.
Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



ALTERNATE BAR d(E)
(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)
(For 42" parapet when conduit is present)



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SFP 34-42

8-16-12

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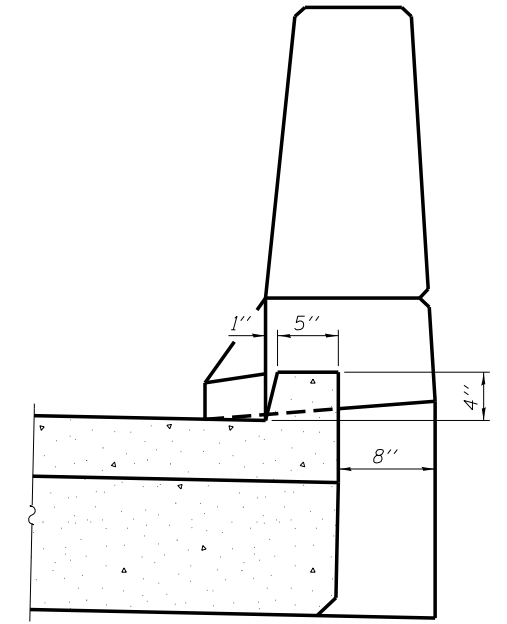
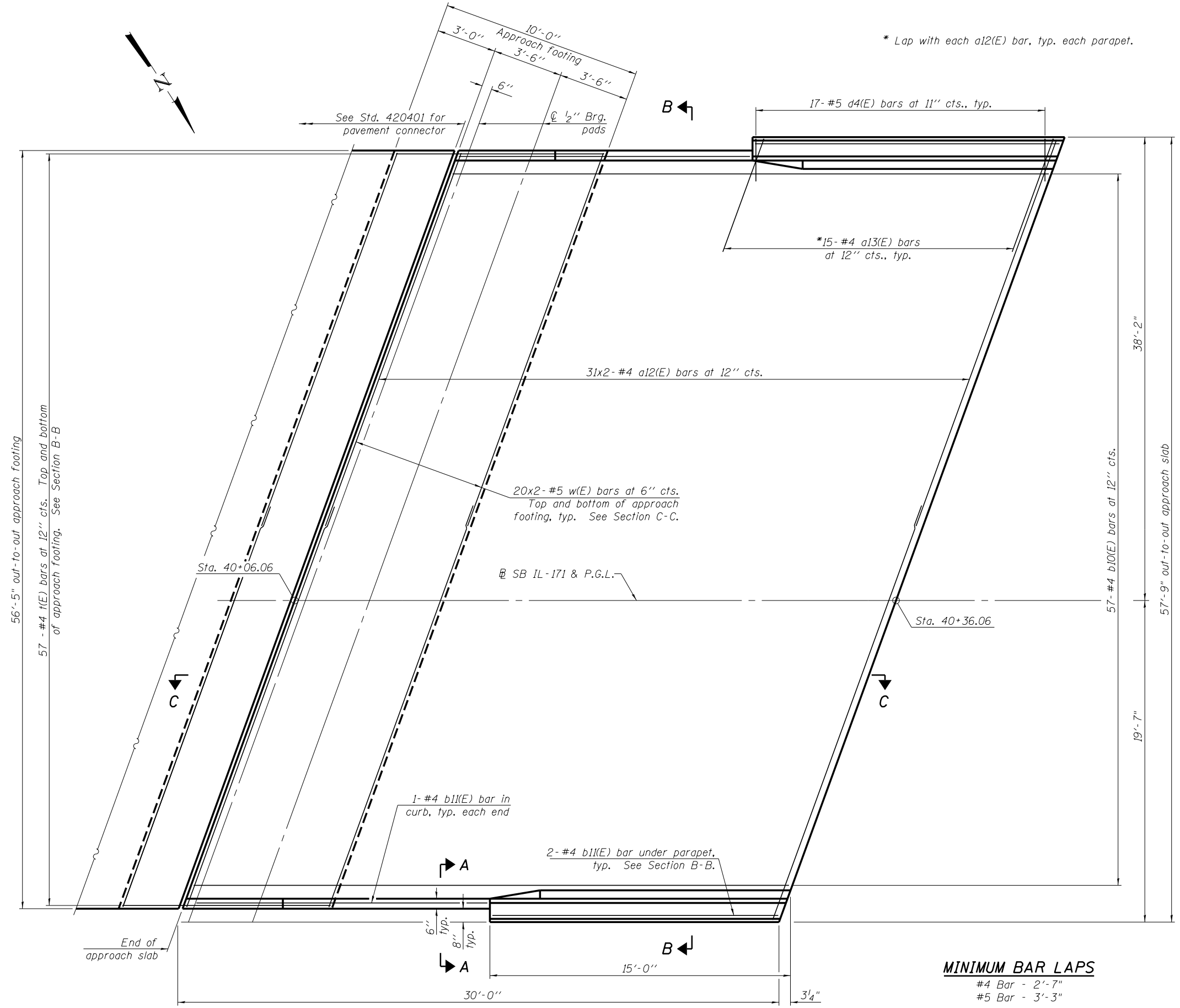
**CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 016-1510**

SHEET NO. SA16 OF SA43 SHEETS

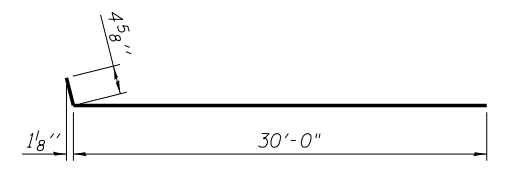
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373	(0707-608&611)HB-B	COOK	177	81
				CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT				



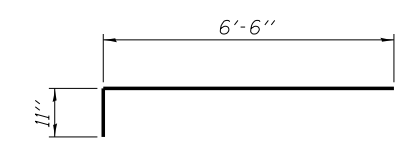
* Lap with each a12(E) bar, typ. each parapet.



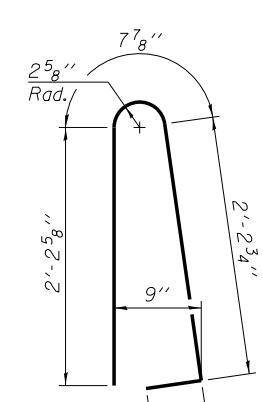
SECTION A-A



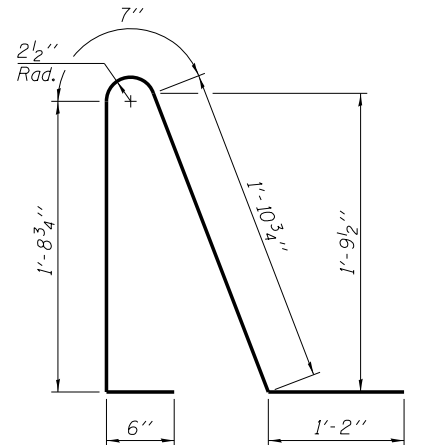
BAR a12(E)



BAR a13(E)



BAR d3(E)



BAR d4(E)

MINIMUM BAR LAPS

- #4 Bar - 2'-7"
- #5 Bar - 3'-3"

PLAN
(Showing Wearing Surface)



Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

FILE NAME =	USER NAME = ksnider	DESIGNED - SLV	REVISED -
0161510.60W77.017_SApproach_Plan.dgn		CHECKED - JHG	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

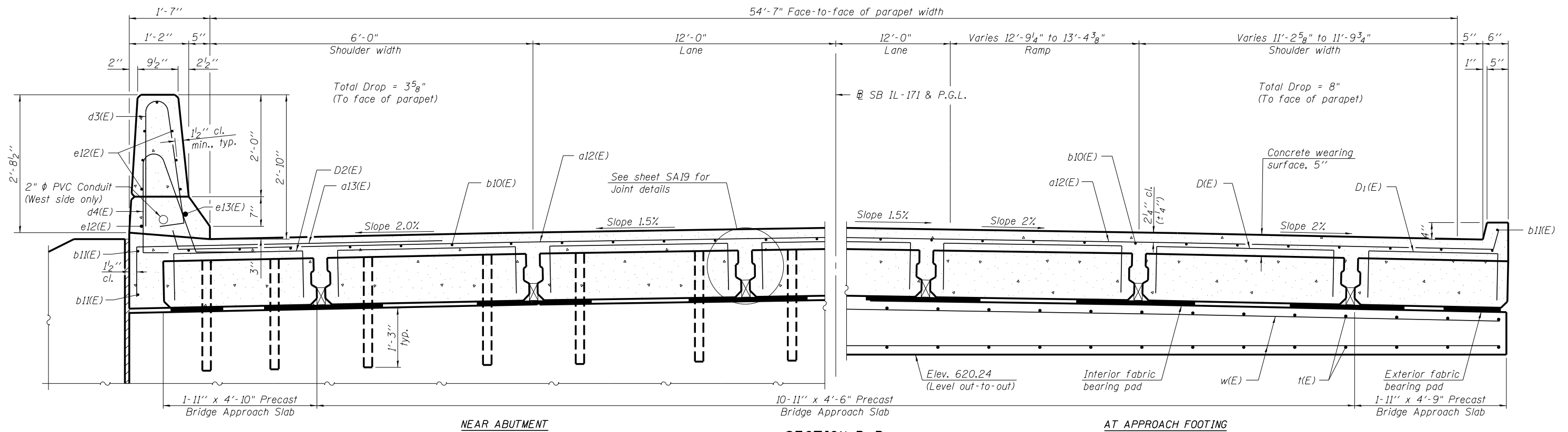
SOUTH PRECAST APPROACH SLAB PLAN
STRUCTURE NO. 016-1510

(Sheet 1 of 4)

SHEET NO. SA17 OF SA43 SHEETS

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CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

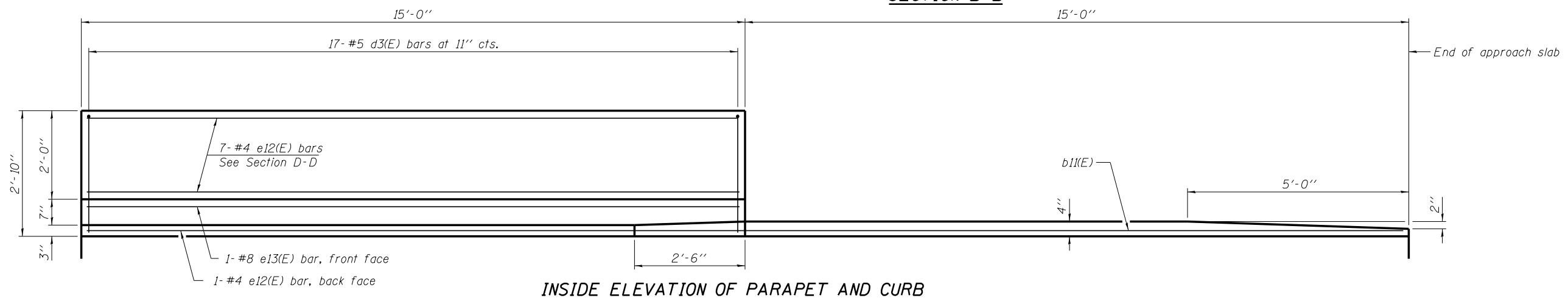
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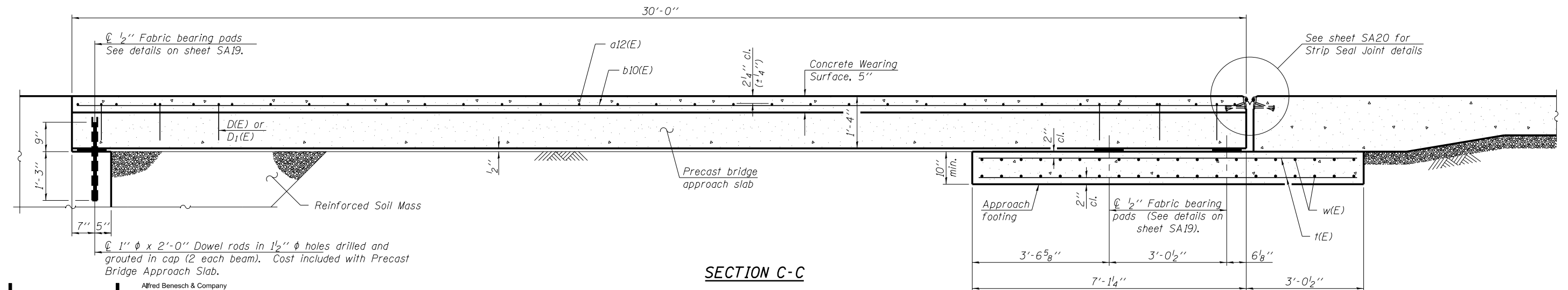
NEAR ABUTMENT

SECTION B-B

AT APPROACH FOOTING



INSIDE ELEVATION OF PARAPET AND CURB



SECTION C-C

(Sheet 2 of 4)

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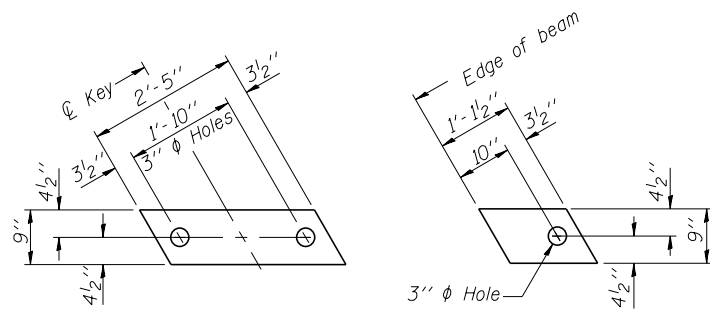
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STATE OF ILLINOIS
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SOUTH PRECAST APPROACH SLAB DETAILS (1 OF 3)
STRUCTURE NO. 016-1510

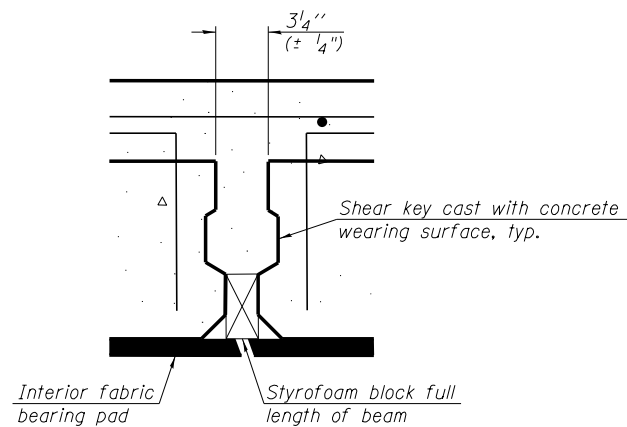
SHEET NO. SA18 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

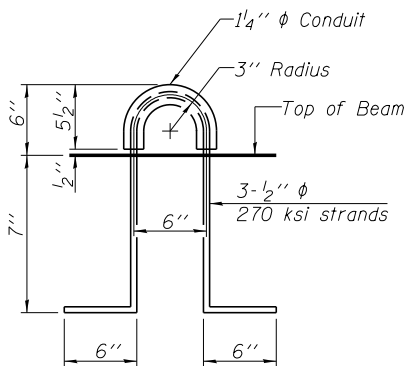


INTERIOR **EXTERIOR**
FABRIC BEARING PAD

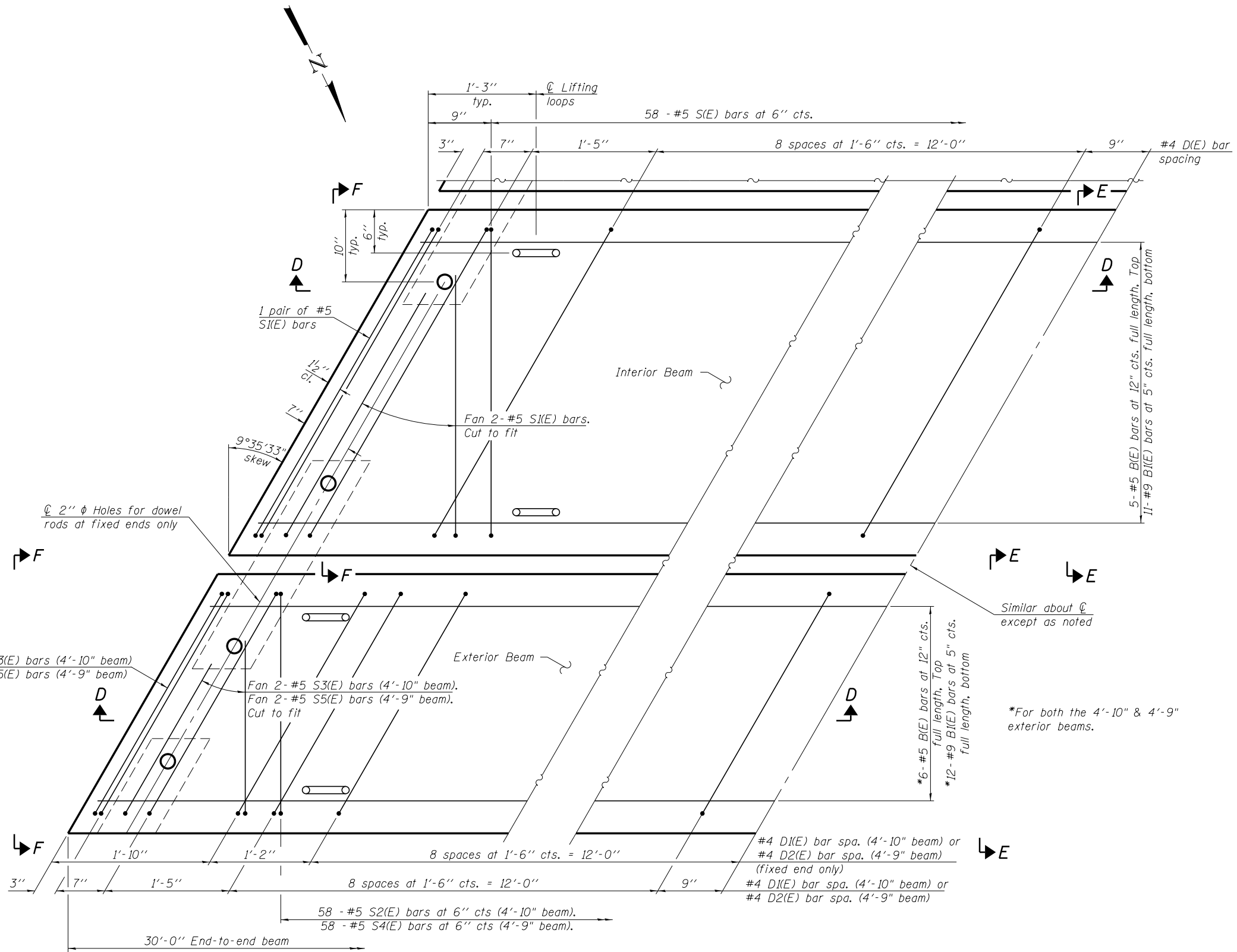
Notes:
All bearing pads shall be 1/2" thick.
Omit holes for fabric bearing pads at approach slab footing end of beams.
Expansion bearing pad shall be bonded to the approach slab footing.



SECTION THRU SHEAR KEY JOINT



LIFTING LOOP DETAIL



PLAN VIEW

(showing precast bridge approach beams)

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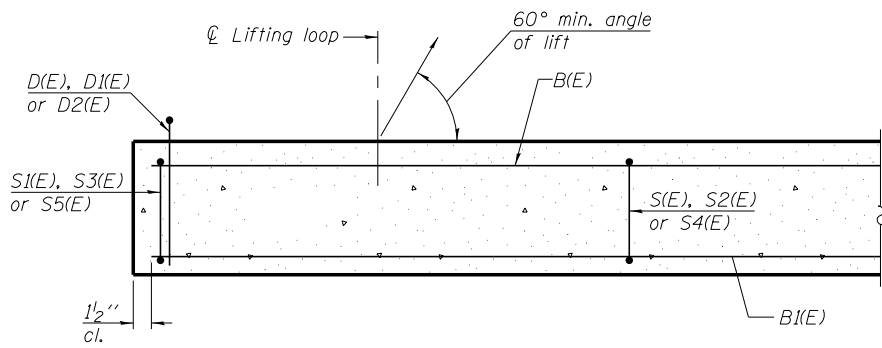
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

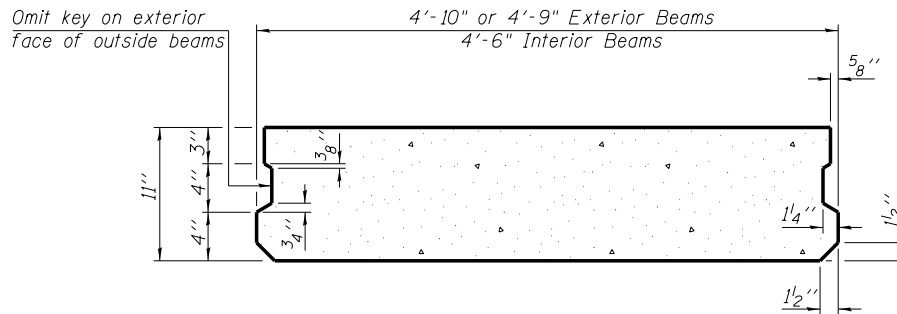
SOUTH PRECAST APPROACH SLAB DETAILS (2 OF 3)
STRUCTURE NO. 016-1510

SHEET NO. SA19 OF SA43 SHEETS

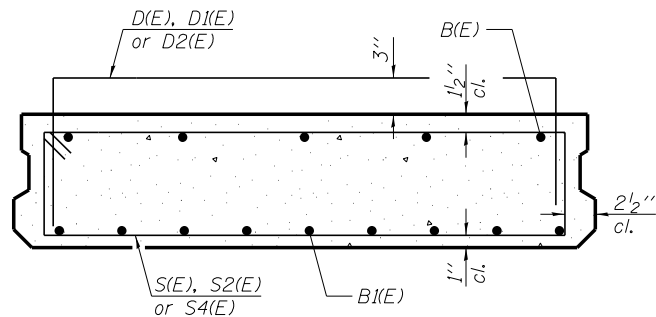
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	84
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	



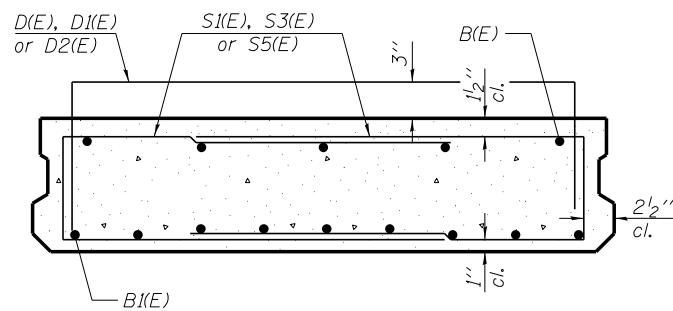
SECTION D-D



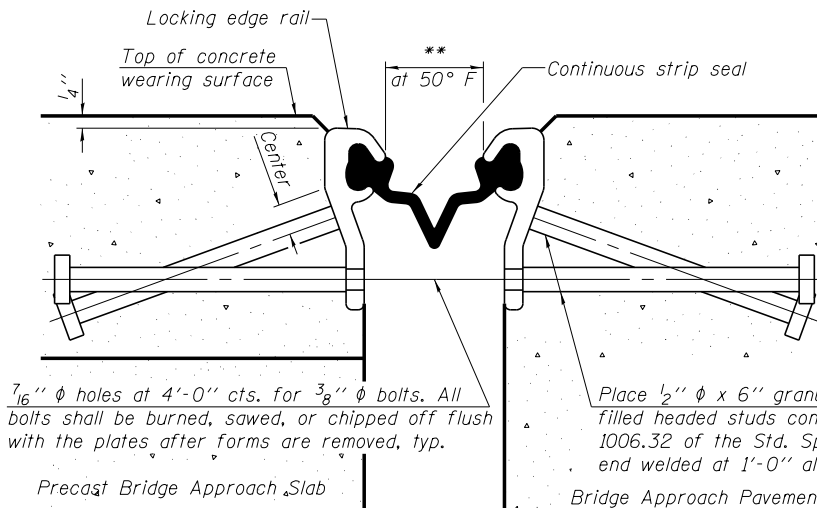
SECTION E-E
(Showing dimensions)



SECTION E-E
(Showing reinforcement)



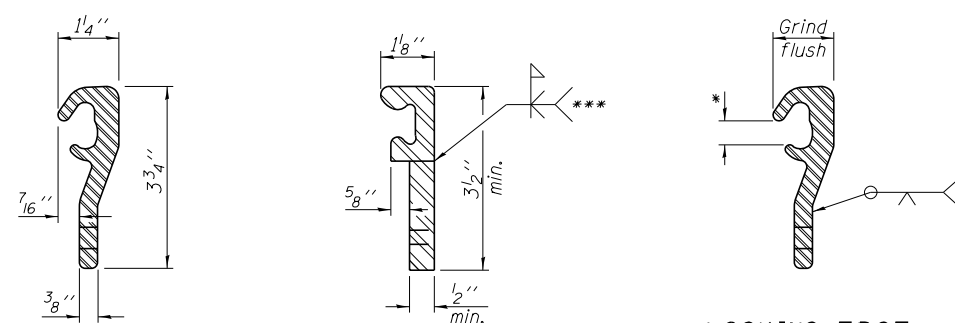
VIEW F-F
(Showing reinforcement)



SECTION THRU STRIP SEAL JOINT
(at rt. angles)

7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place 1/2" ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.



ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAIL SPLICE

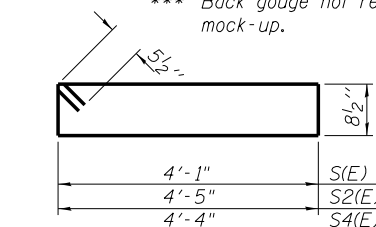
Rolled rail shown, welded rail similar.

LOCKING EDGE RAIL

* Omit weld at seal opening.

** The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1 1/2" for installation purposes.

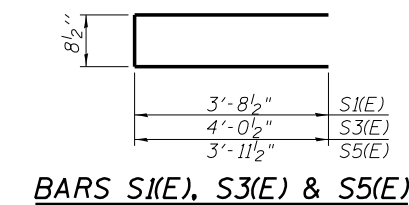
*** Back gouge not required if complete joint penetration is verified by mock-up.



BARS S(E), S2(E) & S4(E)

BAR LIST EACH INTERIOR BEAM
(For information only)

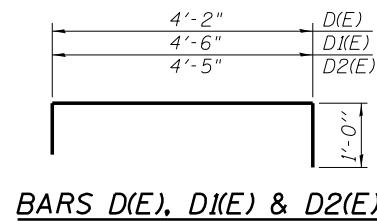
Bar	No.	Size	Length	Shape
B(E)	5	#5	29'-8"	—
B1(E)	11	#9	29'-8"	—
D(E)	22	#4	6'-2"	□
S(E)	58	#5	10'-6"	□
S1(E)	8	#5	8'-2"	□



BARS S1(E), S3(E) & S5(E)

BAR LIST 4'-10" EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	12	#9	29'-8"	—
D1(E)	32	#4	6'-6"	□
S2(E)	58	#5	11'-2"	□
S3(E)	8	#5	8'-10"	□



BARS D(E), D1(E) & D2(E)

BAR LIST 4'-9" EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	12	#9	29'-8"	—
D2(E)	32	#4	6'-5"	□
S4(E)	58	#5	11'-0"	□
S5(E)	8	#5	8'-8"	□

Notes:

The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and as amended by the Special Provision for Concrete Deck Beams, and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.

Cast-in-place substitution of Precast Bridge Approach Slab is not allowed. Parapet concrete shall be paid for as Concrete Superstructure.

Parapet and wearing surface reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.

Approach footing concrete shall be paid for as Concrete Structures.

The top surface of precast bridge approach slabs shall be roughened to a depth of 1/4" according to the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."

After precast bridge approach slab has been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and allowed to cure fully prior to grouting the longitudinal shear keys.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.

A minimum 2 1/2" ϕ lifting pins shall be used to engage the lifting loops during handling.

Compressive strength of precast concrete, f'c shall be 6,000 psi.

For additional parapet details, see sheet SA14.

Any concrete poured monolithically with the wearing surface, such as curbs, will not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5".

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The strip seal shall extend 6" beyond the edge of the approach slab on each end. The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue.

Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

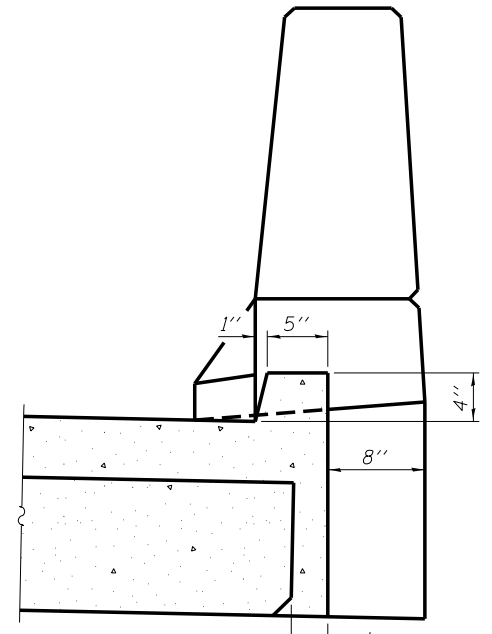
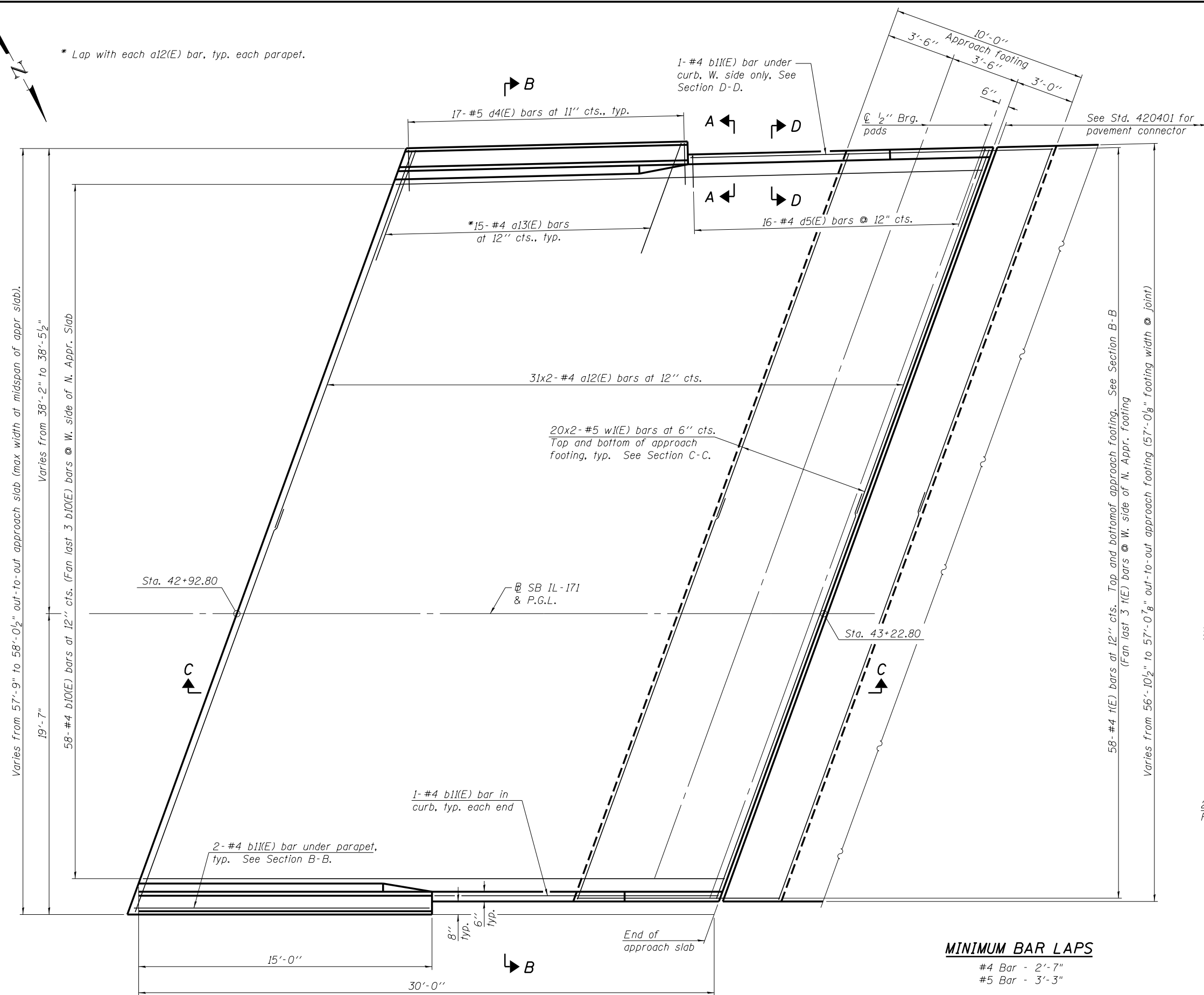
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant

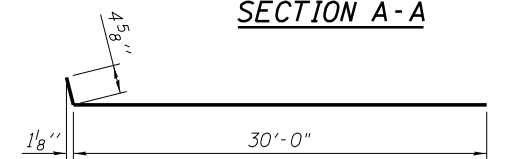
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a12(E)	62	#4	30'-5"	—	
a13(E)	30	#4	7'-5"	—	
b10(E)	57	#4	29'-8"	—	
b11(E)	6	#4	14'-8"	—	
d3(E)	34	#5	5'-7"	□	
d4(E)	34	#5	5'-11"	□	
e12(E)	16	#4	14'-8"	—	
e13(E)	2	#8	14'-8"	—	
f(E)	57	#4	9'-8"	—	
w(E)	80	#5	30'-0"	—	
Concrete Superstructure				Cu. Yd.	3.9
Concrete Structures				Cu. Yd.	24.5
Reinforcement Bars, Epoxy Coated				Pound	6,120
Precast Bridge Approach Slab				Sq. Ft.	1638
Concrete Wearing Surface, 5"				Sq. Yd.	191
Preformed Joint Strip Seal				Foot	59

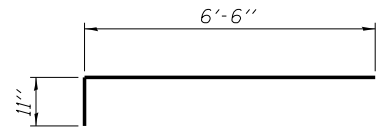
* Lap with each a12(E) bar, typ. each parapet.



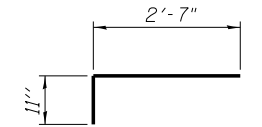
SECTION A-A



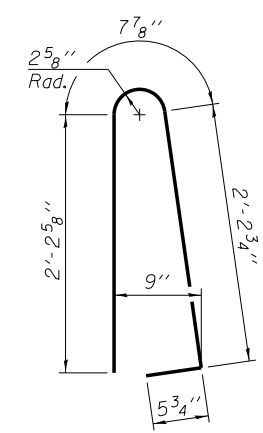
BAR a12(E)



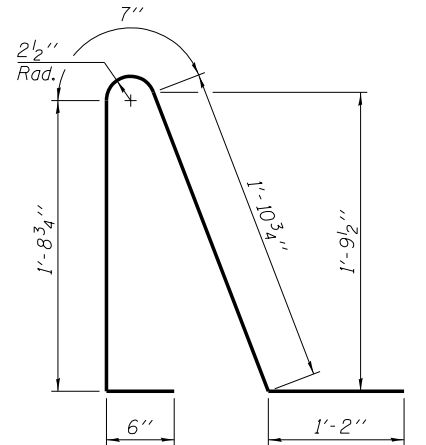
BAR a13(E)



BAR d5(E)



BAR d3(E)



BAR d4(E)

MINIMUM BAR LAPS

- #4 Bar - 2'-7"
- #5 Bar - 3'-3"

PLAN
(Showing wearing surface)

(Sheet 1 of 4)



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205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

FILE NAME = 0161510.60W77.021.NApproach_Plan.dgn

USER NAME = ksnyder
DESIGNED - SLV
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DRAWN - SLV
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REVISD -
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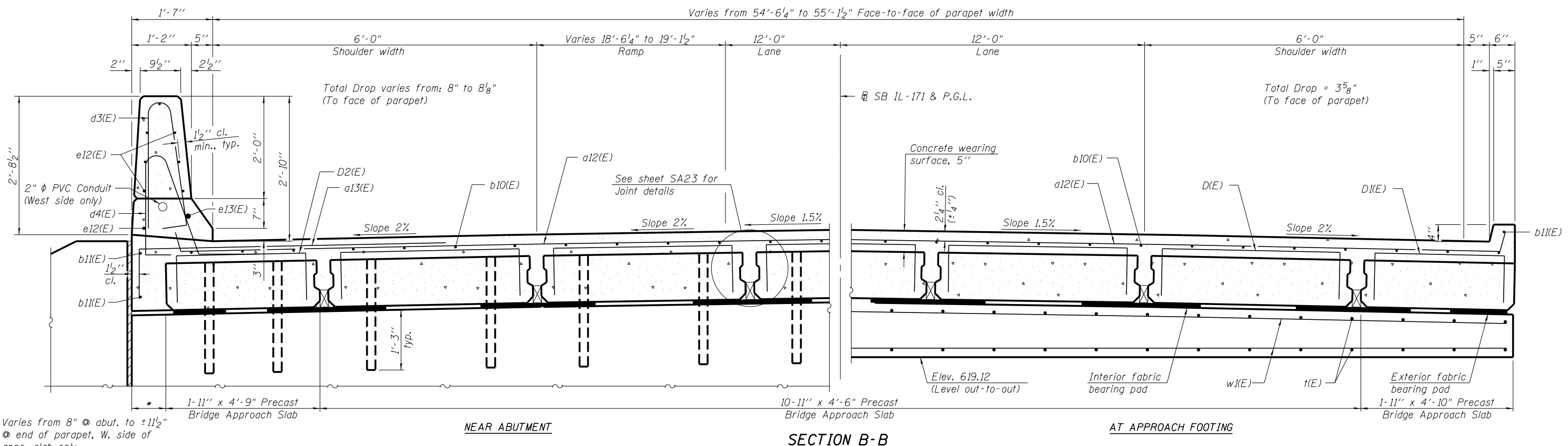
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH PRECAST APPROACH SLAB PLAN
STRUCTURE NO. 016-1510

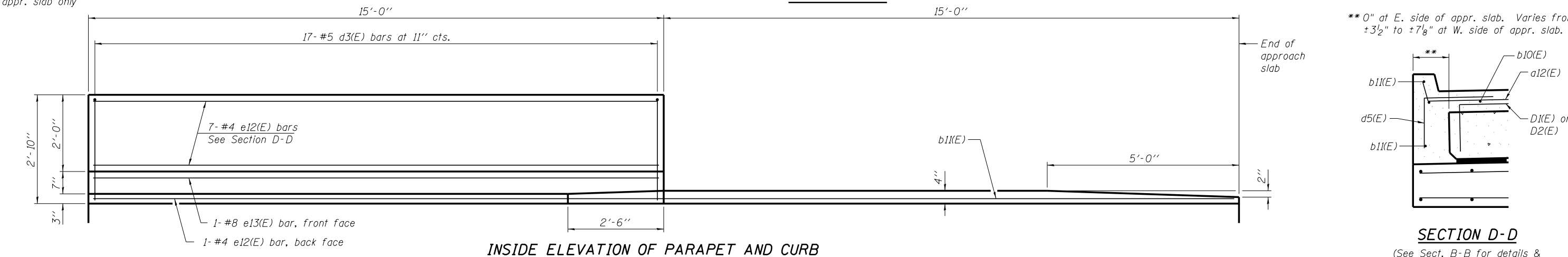
SHEET NO. SA21 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

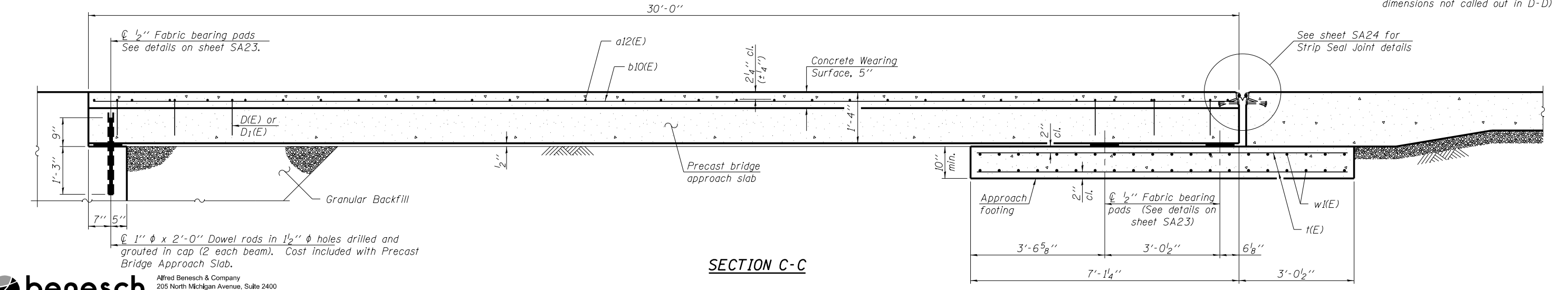
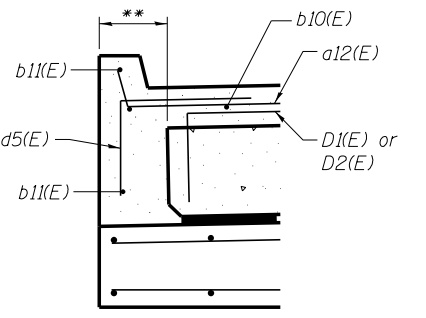
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*Varies from 8" @ abut. to ±11 1/2" @ end of parapet, W. side of appr. slab only



**0" at E. side of appr. slab. Varies from ±3 1/2" to ±7 1/8" at W. side of appr. slab.



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FILE NAME =	USER NAME = ksnyder	DESIGNED - SLV	REVISED -
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STATE OF ILLINOIS
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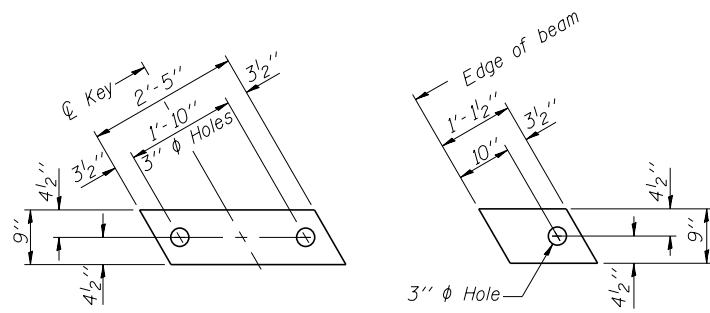
NORTH PRECAST APPROACH SLAB DETAILS (1 OF 3)
STRUCTURE NO. 016-1510

(Sheet 2 of 4)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

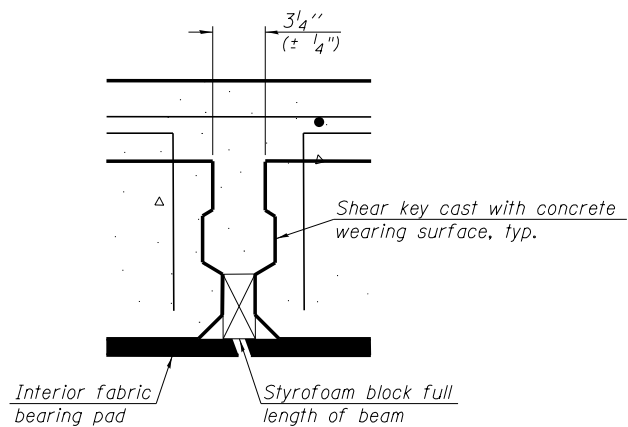
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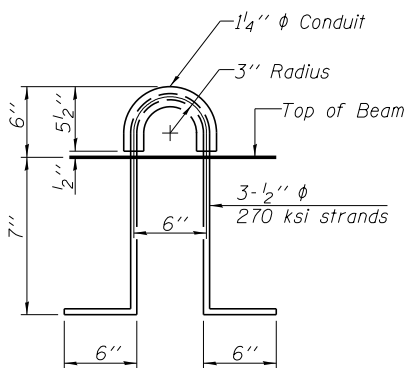


INTERIOR **EXTERIOR**
FABRIC BEARING PAD

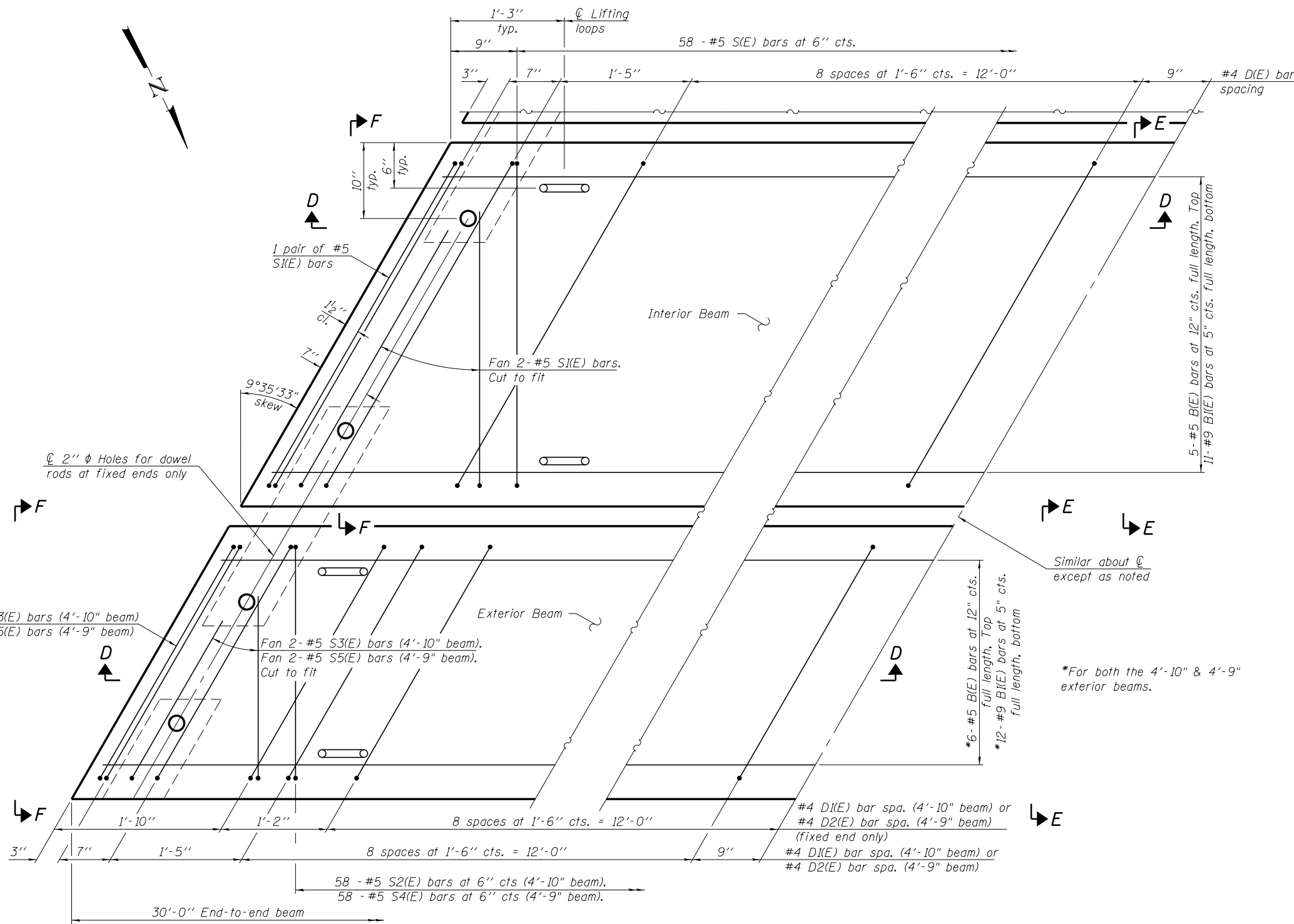
Notes:
All bearing pads shall be 1/2" thick.
Omit holes for fabric bearing pads at approach slab footing end of beams.
Expansion bearing pad shall be bonded to the approach slab footing.



SECTION THRU SHEAR KEY JOINT



LIFTING LOOP DETAIL



PLAN VIEW

(showing precast bridge approach beams)

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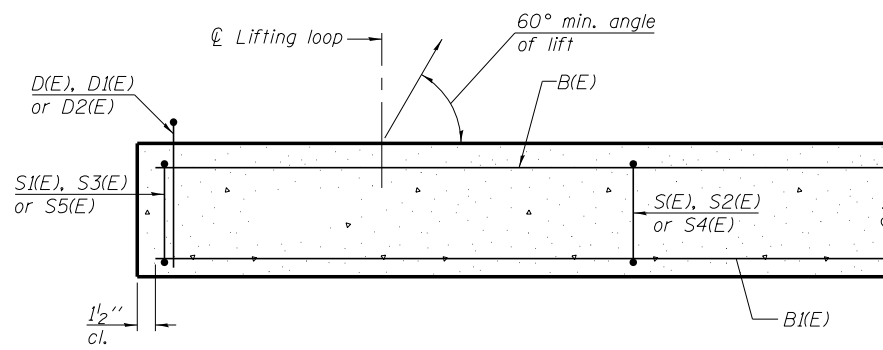
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

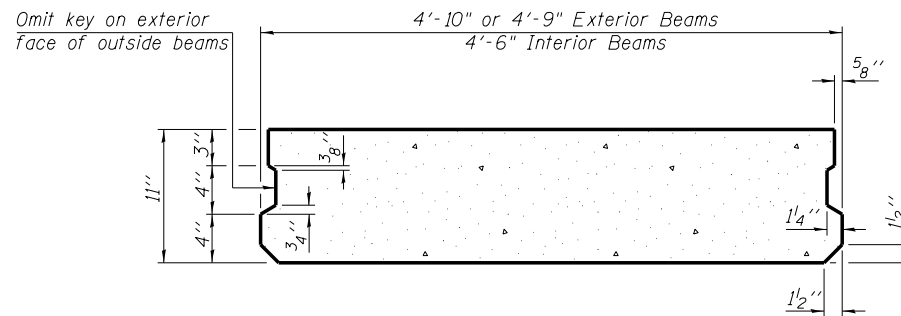
NORTH PRECAST APPROACH SLAB DETAILS (2 OF 3)
STRUCTURE NO. 016-1510

SHEET NO. SA23 OF SA43 SHEETS

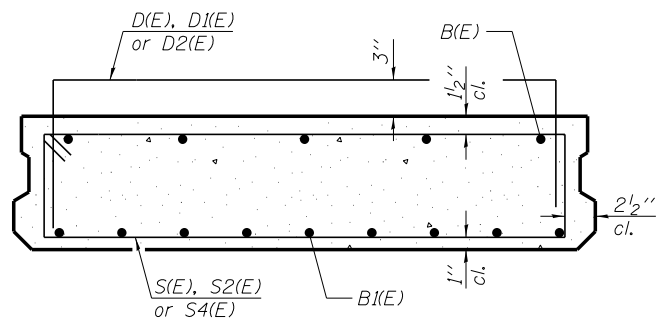
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CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	



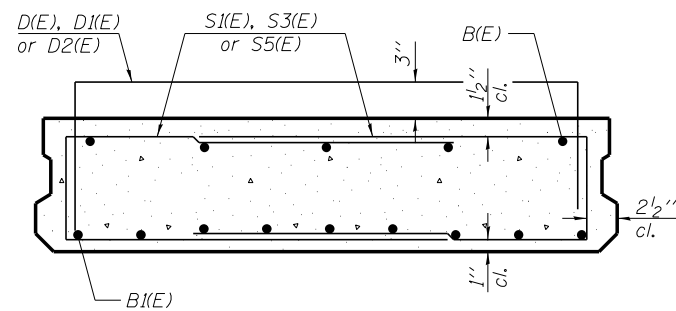
SECTION D-D



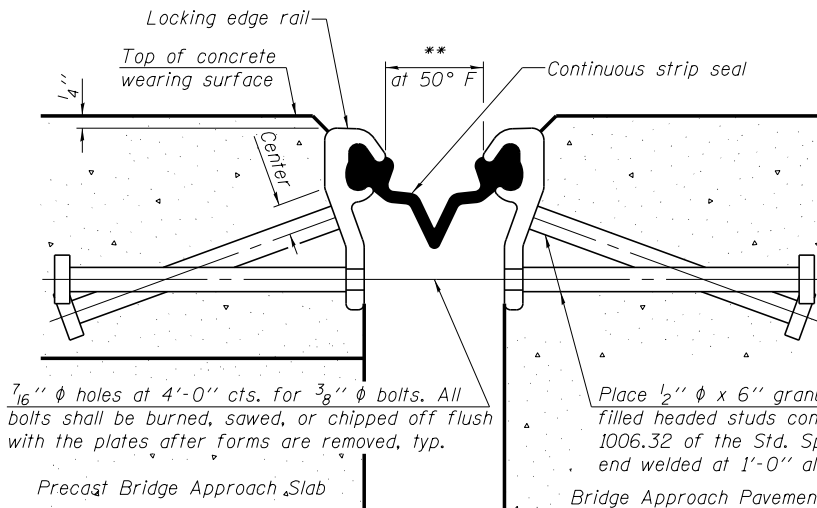
SECTION E-E
(Showing dimensions)



SECTION E-E
(Showing reinforcement)



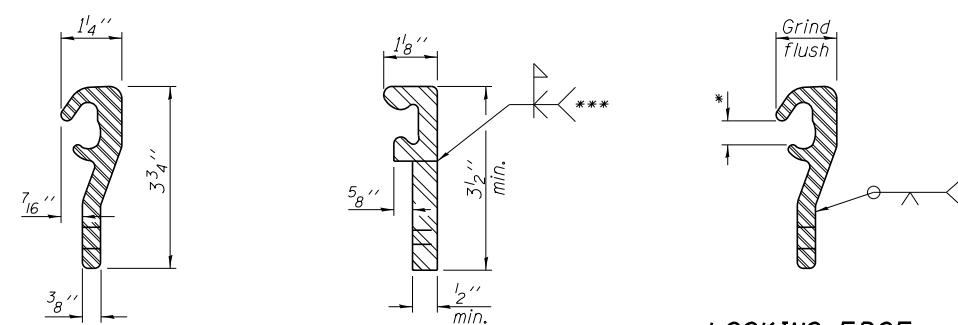
VIEW F-F
(Showing reinforcement)



SECTION THRU STRIP SEAL JOINT
(at rt. angles)

7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

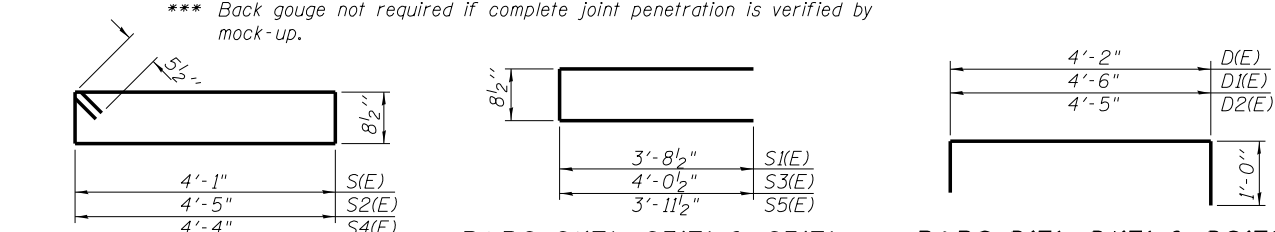
Place 1/2" ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.



LOCKING EDGE RAIL SPLICE
Rolled rail shown, welded rail similar.

LOCKING EDGE RAIL

- * Omit weld at seal opening.
- ** The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1 1/2" for installation purposes.
- *** Back gouge not required if complete joint penetration is verified by mock-up.



BARS S(E), S2(E) & S4(E) **BARS S1(E), S3(E) & S5(E)** **BARS D(E), D1(E) & D2(E)**

BAR LIST EACH INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	5	#5	29'-8"	—
B1(E)	11	#9	29'-8"	—
D(E)	22	#4	6'-2"	□
S(E)	58	#5	10'-6"	□
S1(E)	8	#5	8'-2"	□

BAR LIST 4'-10" EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	12	#9	29'-8"	—
D1(E)	32	#4	6'-6"	□
S2(E)	58	#5	11'-2"	□
S3(E)	8	#5	8'-10"	□

BAR LIST 4'-9" EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	12	#9	29'-8"	—
D2(E)	32	#4	6'-5"	□
S4(E)	58	#5	11'-0"	□
S5(E)	8	#5	8'-8"	□

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a12(E)	62	#4	30'-5"	—
a13(E)	30	#4	7'-5"	□
b10(E)	58	#4	29'-8"	—
b11(E)	7	#4	14'-8"	—
d3(E)	34	#5	5'-7"	□
d4(E)	34	#5	5'-11"	□
d5(E)	16	#4	3'-6"	□
e12(E)	16	#4	14'-8"	—
e13(E)	2	#8	14'-8"	—
f(E)	58	#4	9'-8"	—
w1(E)	80	#5	30'-6"	—
Concrete Superstructure			Cu. Yd.	3.9
Concrete Structures			Cu. Yd.	26.6
Reinforcement Bars, Epoxy Coated			Pound	6,230
Precast Bridge Approach Slab			Sq. Ft.	1638
Concrete Wearing Surface, 5"			Sq. Yd.	191
Preformed Joint Strip Seal			Foot	59

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Chicago, Illinois 60601
312-565-0450 Job No. 10093

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STATE OF ILLINOIS
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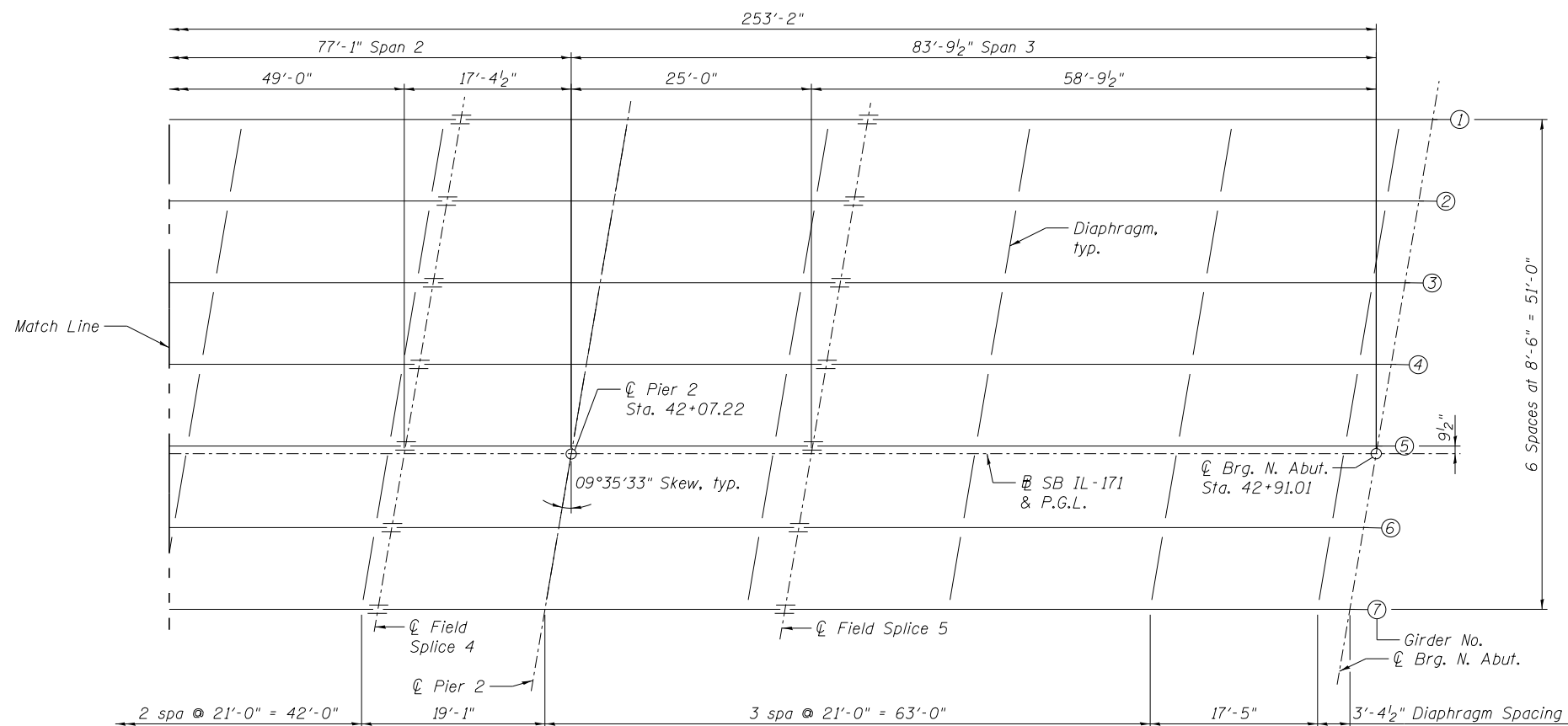
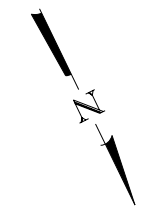
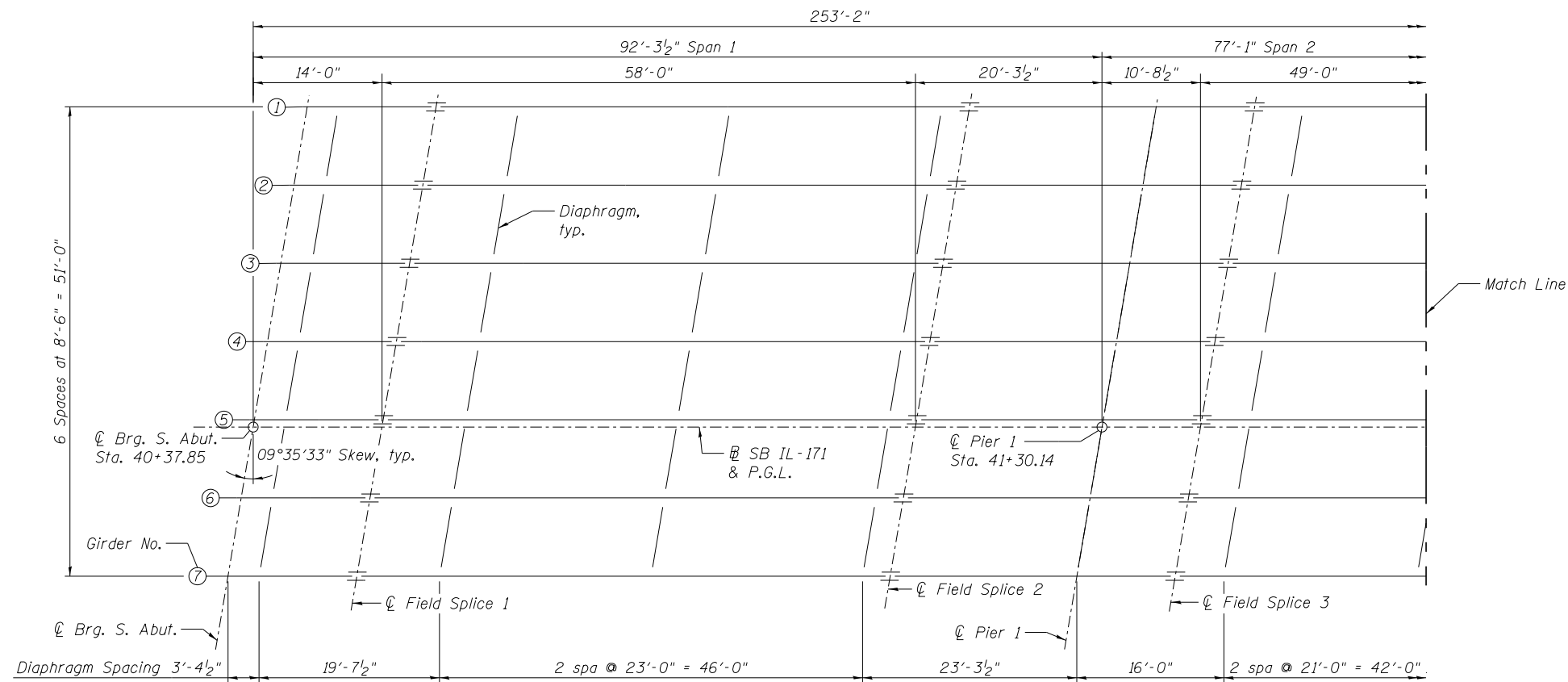
NORTH PRECAST APPROACH SLAB DETAILS (3 OF 3)
STRUCTURE NO. 016-1510

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	89
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

(Sheet 4 of 4)

SHEET NO. SA24 OF SA43 SHEETS

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FRAMING PLAN

NOTE:
 All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



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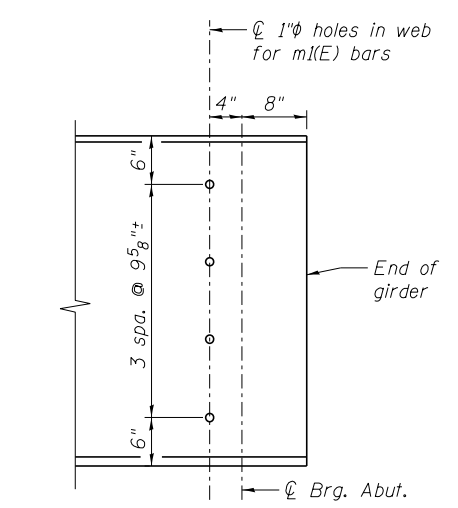
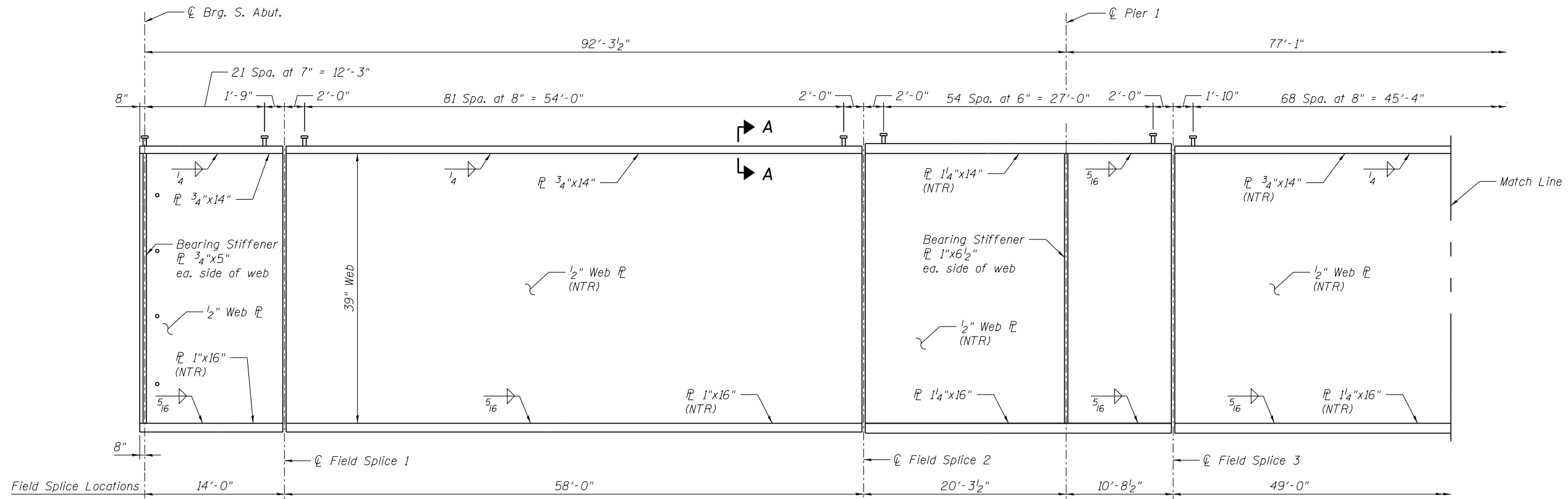
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

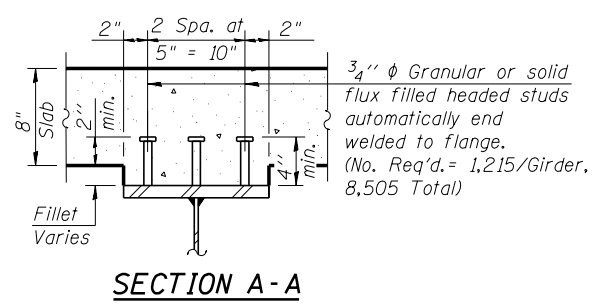
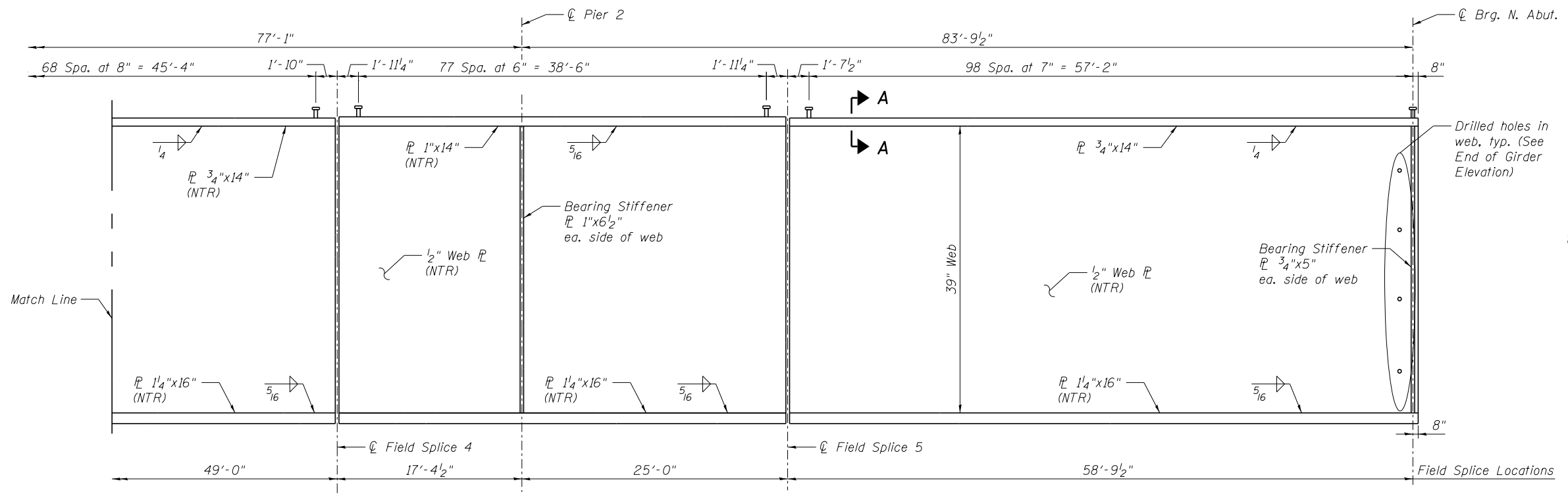
**FRAMING PLAN
 STRUCTURE NO. 016-1510**

SHEET NO. SA25 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	90
CONTRACT NO. 60W77				
ILLINOIS FED. AID PROJECT				



GIRDER ELEVATION
 "NTR" denotes plates to which notch toughness requirements are applicable.



GIRDER ELEVATION
 "NTR" denotes plates to which notch toughness requirements are applicable.

- NOTES:**
- All flange plates, web plates and bearing stiffeners shall be AASHTO M270 Grade 50 steel.
 - Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

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	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - KWS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER ELEVATION
STRUCTURE NO. 016-1510

SHEET NO. SA26 OF SA43 SHEETS

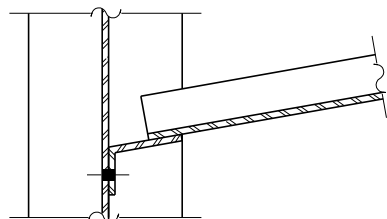
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	91
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

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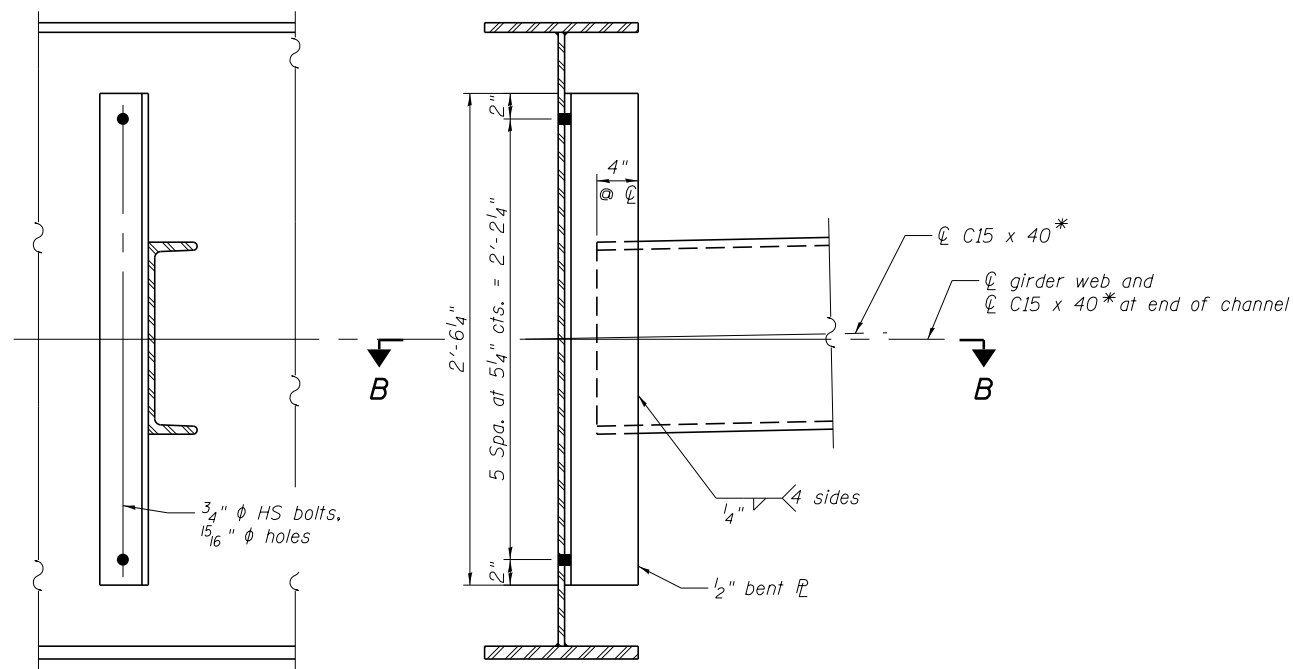
SPLICE TABLE

Splice Location	Top Flange			A	B	No. Bolts
	Outer Flange \bar{r}	Inner Flange \bar{r}	Fill \bar{r}			
Field Splice 1	\bar{r} 1/2"x14"x1'-7 1/2"	2- \bar{r} 1/2"x6 1/4"x1'-7 1/2"	N/A	2	6"	24
Field Splice 2	\bar{r} 1/2"x14"x2'-1 1/2"	2- \bar{r} 1/2"x6 1/4"x2'-1 1/2"	\bar{r} 1/2"x14"x1'-0 5/8"	3	9"	32
Field Splice 3	\bar{r} 1/2"x14"x2'-1 1/2"	2- \bar{r} 1/2"x6 1/4"x2'-1 1/2"	\bar{r} 1/2"x14"x1'-0 5/8"	3	9"	32
Field Splice 4	\bar{r} 1/2"x14"x1'-7 1/2"	2- \bar{r} 1/2"x6 1/4"x1'-7 1/2"	\bar{r} 1/4"x14"x9 5/8"	2	6"	24
Field Splice 5	\bar{r} 1/2"x14"x1'-7 1/2"	2- \bar{r} 1/2"x6 1/4"x1'-7 1/2"	\bar{r} 1/4"x14"x9 5/8"	2	6"	24

Splice Location	Bottom Flange			Web						
	Outer Flange \bar{r}	Inner Flange \bar{r}	Fill \bar{r}	A	B	No. Bolts	Web Splice \bar{r}	C	D	No. Bolts
Field Splice 1	\bar{r} 5/8"x16"x2'-7 1/2"	2- \bar{r} 5/8"x7 1/4"x2'-7 1/2"	N/A	4	1'-0"	40	\bar{r} 3/8"x19 1/2"x3'-0 1/2"	2	6"	72
Field Splice 2	\bar{r} 1/2"x16"x2'-7 1/2"	2- \bar{r} 1/2"x7 1/4"x2'-7 1/2"	\bar{r} 1/4"x16"x1'-3 5/8"	4	1'-0"	40	\bar{r} 3/8"x13 1/2"x3'-0 1/2"	1	3"	48
Field Splice 3	\bar{r} 5/8"x16"x3'-1 1/2"	2- \bar{r} 5/8"x7 1/4"x3'-1 1/2"	N/A	5	1'-3"	48	\bar{r} 3/8"x19 1/2"x3'-0 1/2"	2	6"	72
Field Splice 4	\bar{r} 3/4"x16"x2'-7 1/2"	2- \bar{r} 3/4"x7 1/4"x2'-7 1/2"	N/A	4	1'-0"	40	\bar{r} 3/8"x13 1/2"x3'-0 1/2"	1	3"	48
Field Splice 5	\bar{r} 3/4"x16"x2'-7 1/2"	2- \bar{r} 3/4"x7 1/4"x2'-7 1/2"	N/A	4	1'-0"	40	\bar{r} 3/8"x13 1/2"x3'-0 1/2"	1	3"	48

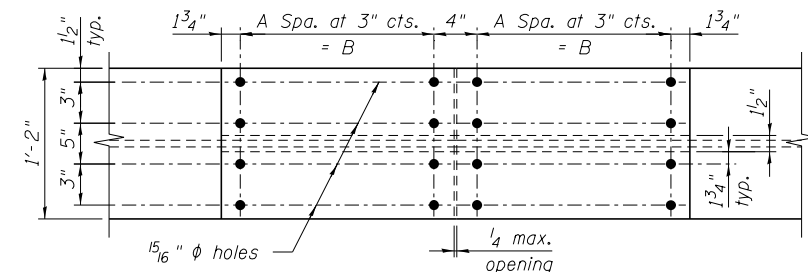


SECTION B-B

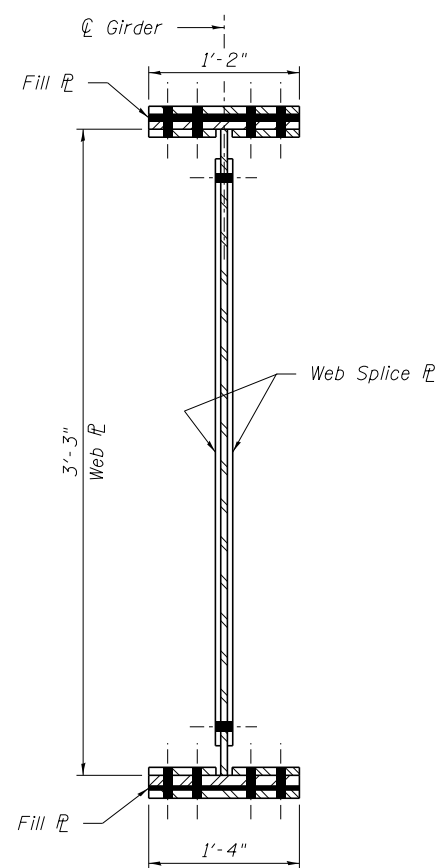


INTERIOR DIAPHRAGM

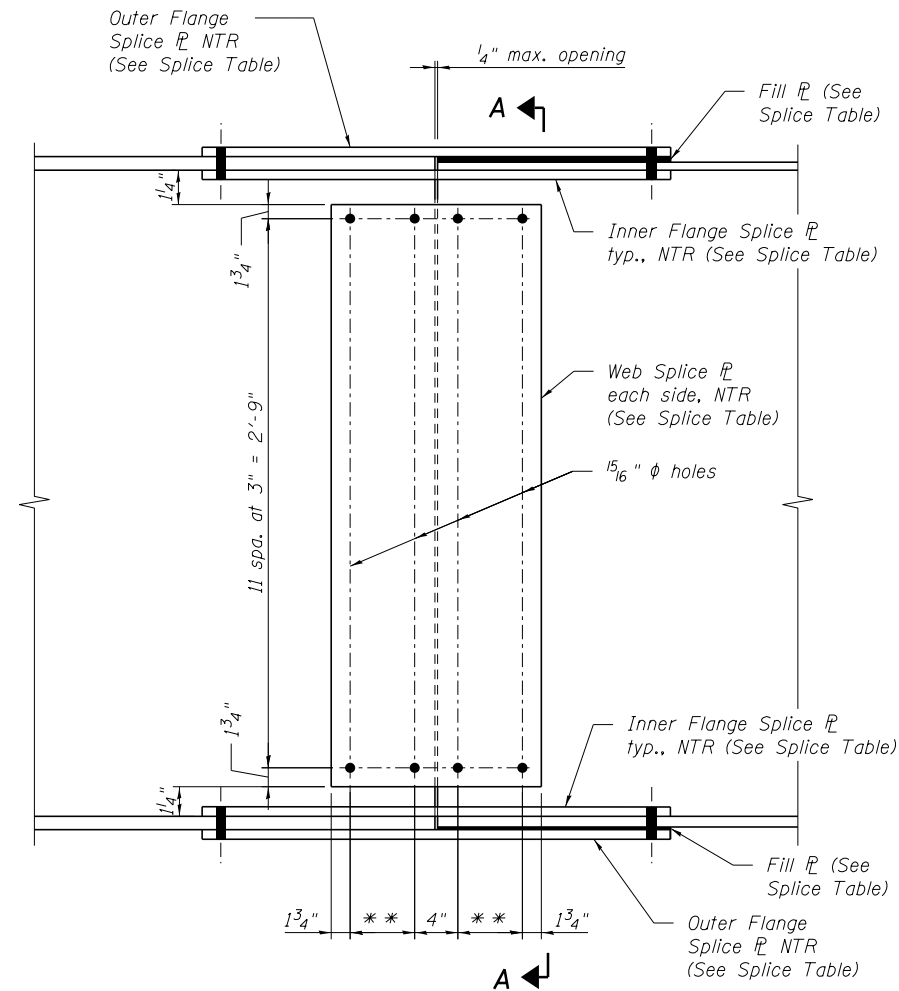
Note:
Two hardened washers required for each set of oversized holes.
* C15 x 50 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15 x 40 section.
The alternate, if utilized, shall be provided at no extra cost to the Department.



TOP FLANGE SPLICE

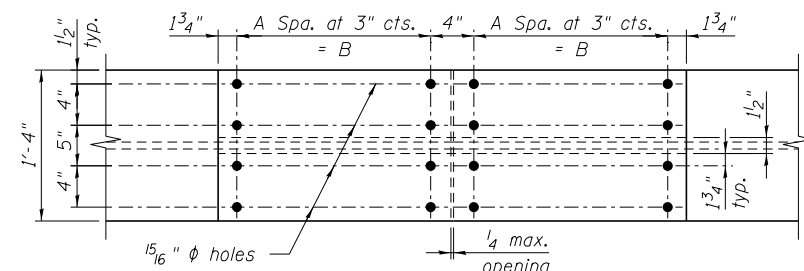


SECTION A-A



ELEVATION - FIELD SPLICE

** C spa. at 3" cts. = D



BOTTOM FLANGE SPLICE



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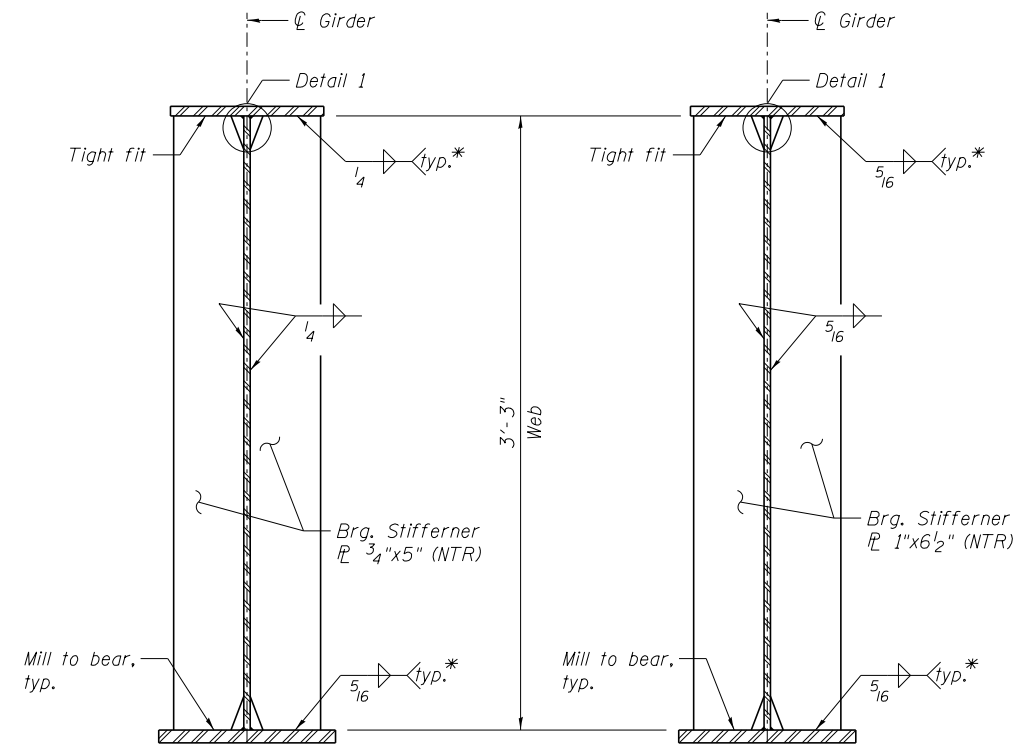
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	PLOT DATE = 6/23/2014	DRAWN - KMS	REVISED -
		CHECKED - KWS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS (1 OF 2)
STRUCTURE NO. 016-1510**

SHEET NO. SA27 OF SA43 SHEETS

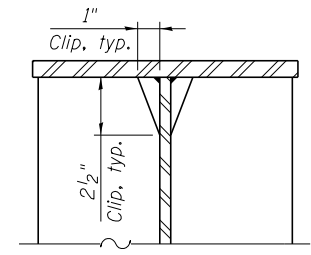
F.A.P. RTE. 373	SECTION (0707-608&611)HB-B	COUNTY COOK	TOTAL SHEETS 177	SHEET NO. 92
CONTRACT NO. 60W77				ILLINOIS FED. AID PROJECT



BEARING STIFFENER AT ABUTMENTS

BEARING STIFFENER AT PIERS

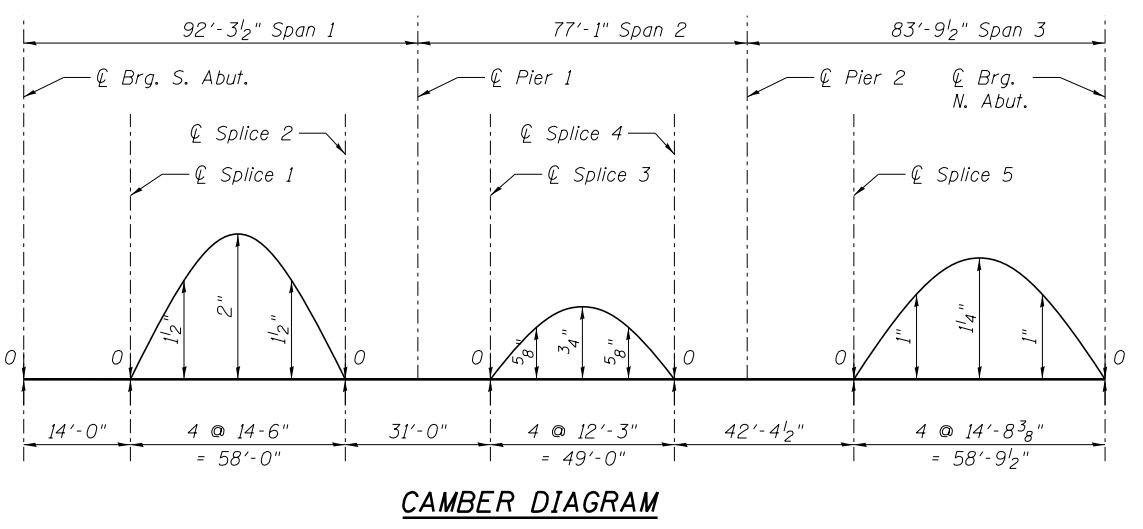
* Terminate weld 1/4" from outside edges of stiffener flange



DETAIL 1
(Typical top & bottom flanges)

TOP OF WEB ELEVATIONS
(For fabrication only)

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7
☉ Brg. S. Abut.	621.81	621.97	622.13	622.28	622.40	622.29	622.13
Splice 1	621.99	622.16	622.32	622.47	622.59	622.48	622.32
Splice 2	622.07	622.24	622.41	622.57	622.70	622.59	622.44
☉ Brg. Pier 1	621.95	622.13	622.30	622.46	622.59	622.49	622.34
Splice 3	621.89	622.06	622.24	622.40	622.53	622.43	622.28
Splice 4	621.66	621.84	622.02	622.18	622.32	622.23	622.09
☉ Brg. Pier 2	621.56	621.74	621.92	622.09	622.23	622.13	622.00
Splice 5	621.42	621.60	621.78	621.95	622.09	622.00	621.86
☉ Brg. N. Abut.	620.81	620.99	621.17	621.34	621.48	621.39	621.26



INTERIOR GIRDER MOMENT TABLE						
	0.4 Span 1	Pier 1	0.5 Span 2	Pier 2	0.6 Span 3	
I_s	(in ⁴)	12752	17620	13971	15895	13971
$I_c(n)$	(in ⁴)	34942	41098	39950	40526	39950
$I_c(3n)$	(in ⁴)	25886	30758	29034	29917	29034
$I_c(cr)$	(in ⁴)	-----	22613	-----	21304	-----
S_s	(in ³)	705	887	828	861	828
$S_c(n)$	(in ³)	977	1154	1141	1148	1141
$S_c(3n)$	(in ³)	903	1070	1057	1063	1057
$S_c(cr)$	(in ³)	-----	971	-----	957	-----
DC1	(k/')	1.066	1.112	1.083	1.098	1.083
M _{DC1}	(k)	736	-896	16	-686	639
DC2	(k/')	0.129	0.129	0.129	0.129	0.129
M _{DC2}	(k)	90	-105	3	-80	77
DW	(k/')	0.389	0.389	0.389	0.389	0.389
M _{DW}	(k)	271	-317	9	-243	231
M _{ϕ + IM}	(k)	1329	-1272	890	-1111	1206
M _u (Strength I)	(k)	3765	-3953	1595	-3266	3352
ϕ _r M _n	(k)	4731	4529	5522	4492	5522
f _s DC1	(ksi)	12.5	-12.1	0.2	-9.6	9.3
f _s DC2	(ksi)	1.2	-1.3	0.0	-1.0	0.9
f _s DW	(ksi)	3.6	-3.9	0.1	-3.0	2.6
f _s (ϕ + IM)	(ksi)	16.3	-15.7	9.4	-13.9	12.7
f _s (Service II)	(ksi)	38.5	-37.8	12.5	-31.7	29.2
0.95R _h F _{yr}	(ksi)	47.5	47.5	47.5	47.5	47.5
f _s (Total)(Strength I)	(ksi)	-----	-----	-----	-----	-----
ϕ _r F _n	(ksi)	-----	-----	-----	-----	-----
V _r	(k)	57.3	63.0	52.9	66.1	55.3

INTERIOR GIRDER REACTION TABLE					
	S. Abut.	Pier 1	Pier 2	N. Abut.	
R _{DC1}	(k)	82.7	104.7	93.1	80.3
R _{DC2}	(k)	4.8	12.4	11.0	4.4
R _{DW}	(k)	14.5	37.4	33.2	13.4
R _{ϕ + IM}	(k)	95.6	155.0	143.2	93.6
R _{Total}	(k)	197.6	309.5	280.5	191.7

** Reaction also includes approach slab and concrete diaphragm.

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{ϕ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ϕ + IM}

ϕ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.

f_s (ϕ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{ϕ + IM} / S_{c(n)} or M_{DW} / S_{c(cr)} as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (ϕ + IM)

0.95R_hF_{yr}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (ϕ + IM)

ϕ_rF_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_r: Maximum factored shear range in span computed according to Article 6.10.10.



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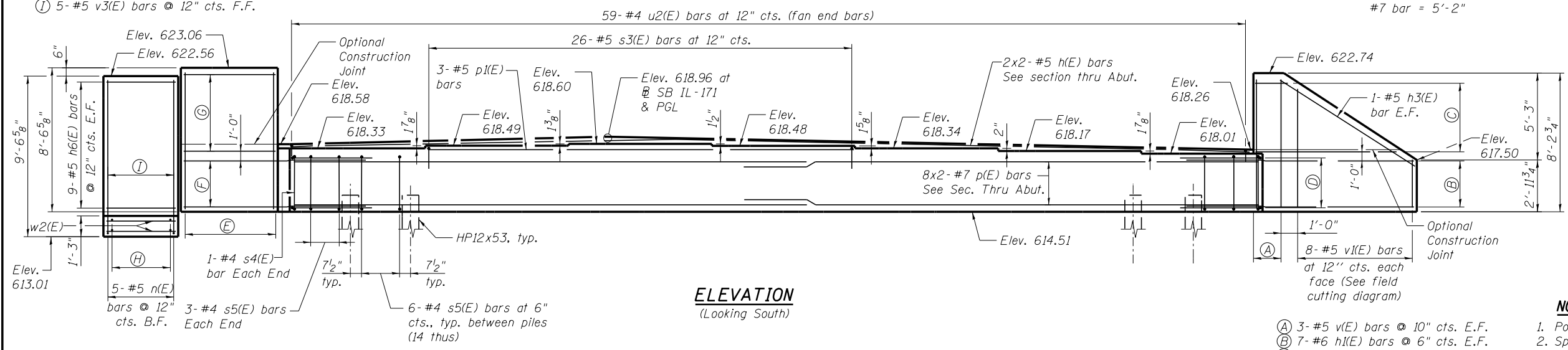
STRUCTURAL STEEL DETAILS (2 OF 2)
STRUCTURE NO. 016-1510

SHEET NO. SA28 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	93
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

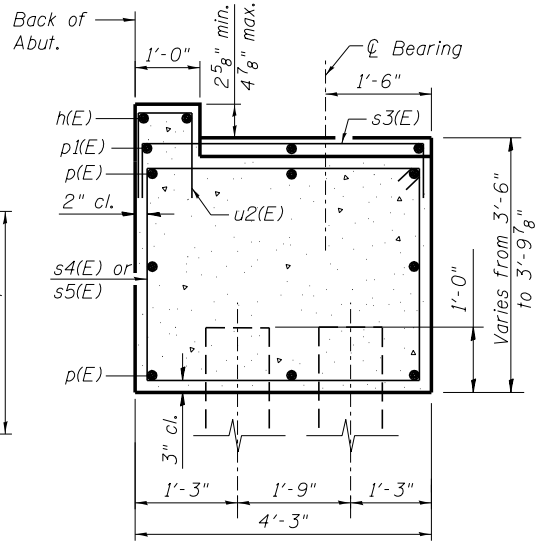
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- Ⓕ 7-#5 v2(E) bars @ 12" cts. E.F.
- Ⓖ 7-#5 h4(E) bars @ 6" cts. E.F.
- Ⓒ 5-#5 h5(E) bars @ 12" cts. E.F.
- Ⓗ 5-#5 t2(E) bars @ 12" cts. top and bott.
- Ⓘ 5-#5 v3(E) bars @ 12" cts. F.F.



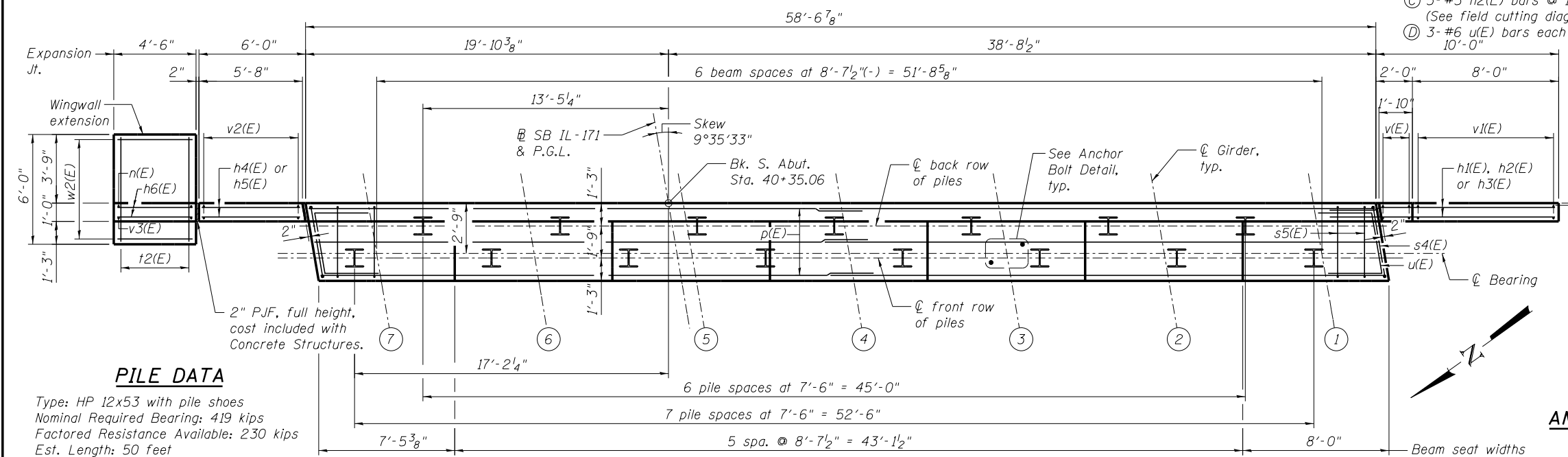
ELEVATION
(Looking South)

MINIMUM BAR LAP
#5 bar = 3'-3"
#7 bar = 5'-2"



SEC. THRU ABUT.

- NOTES:**
1. Pour steps monolithically with cap.
 2. Space reinforcement to miss anchor bolts.
 3. For details of piles, see sheet SA37
 4. Ashlar Limestone Pattern (with natural concrete color) shall be applied to the entire front face of the wingwalls and wingwall extension. Paid for as Form Liner Textured Surface.

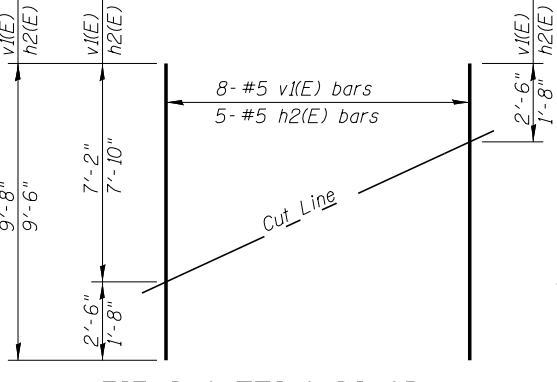
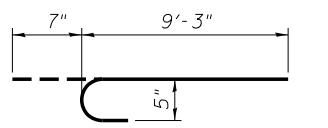


PLAN

PILE DATA

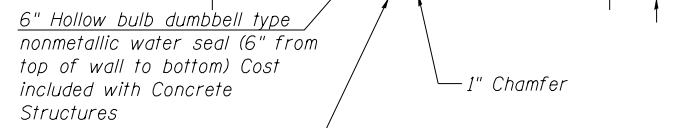
Type: HP 12x53 with pile shoes
Nominal Required Bearing: 419 kips
Factored Resistance Available: 230 kips
Est. Length: 50 feet
No. Production Piles: 14
No. Test Piles: 1

ANCHOR BOLT LAYOUT

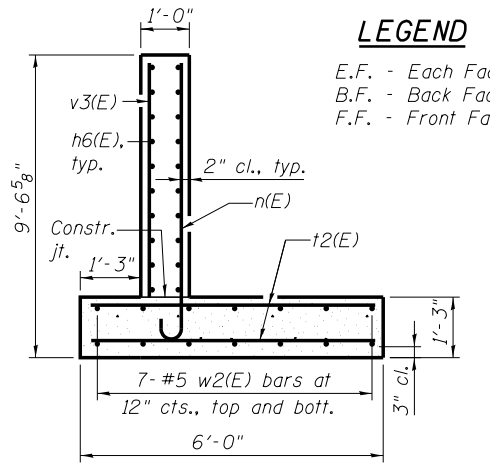


FIELD CUTTING DIAGRAM

Order v1(E) & h2(E) bars full length. Cut as shown and use remainder of bars in opposite face.



EXPANSION JOINT DETAIL

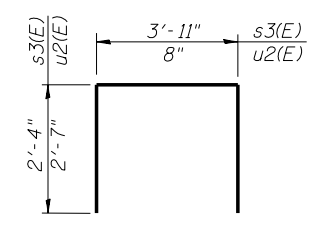


SECT. THRU WINGWALL EXTENSION

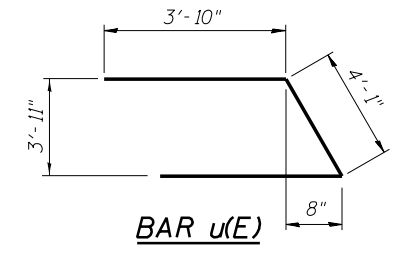
Maximum applied service bearing pressure = $Q_{max} = 1.8$ ksf

LEGEND

- E.F. - Each Face
- B.F. - Back Face
- F.F. - Front Face

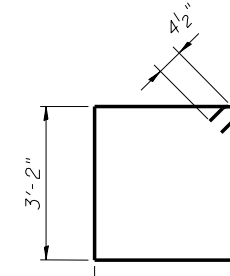


BARS s3(E) & u2(E)



BAR u(E)

BAR n(E)



BARS s4(E) & s5(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	4	#5	31'-0"	
h1(E)	14	#6	13'-10"	
h2(E)	5	#5	9'-6"	
h3(E)	2	#5	9'-5"	
h4(E)	14	#5	9'-3"	
h5(E)	10	#5	5'-6"	
h6(E)	18	#5	4'-2"	
n(E)	6	#5	9'-10"	
p(E)	16	#7	31'-11"	
p1(E)	3	#5	25'-6"	
s3(E)	26	#5	8'-7"	
s4(E)	2	#4	15'-3"	
s5(E)	90	#4	14'-11"	
t2(E)	10	#5	5'-8"	
u(E)	6	#6	11'-9"	
u2(E)	59	#4	5'-10"	
v(E)	6	#5	7'-10"	
v1(E)	8	#5	9'-8"	
v2(E)	14	#5	8'-3"	
v3(E)	5	#5	8'-2"	
w2(E)	14	#5	4'-2"	
Pile Shoes				
Concrete Structures	Each		15	
Reinforcement Bars, Epoxy Coated	Cu. Yd.		42.9	
Furnishing Steel	Pound		3,850	
Piles HP12x53	Foot		700	
Driving Piles	Foot		700	
Test Pile Steel HP12x53	Each		1	
Form Liner Textured Surface	Sq. Ft.		152	
Concrete Sealer	Sq. Ft.		562	

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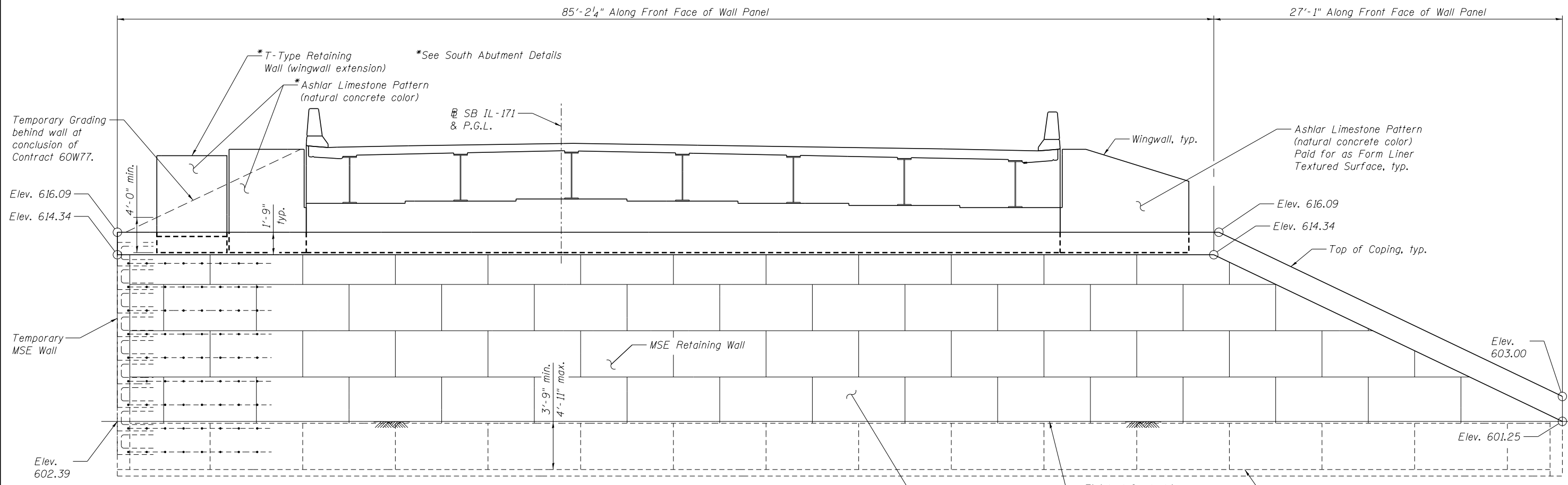
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PLOT DATE = 6/23/2014	CHECKED - KWS	DRAWN - SLV	REvised -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 016-1510
SHEET NO. SA30 OF SA43 SHEETS

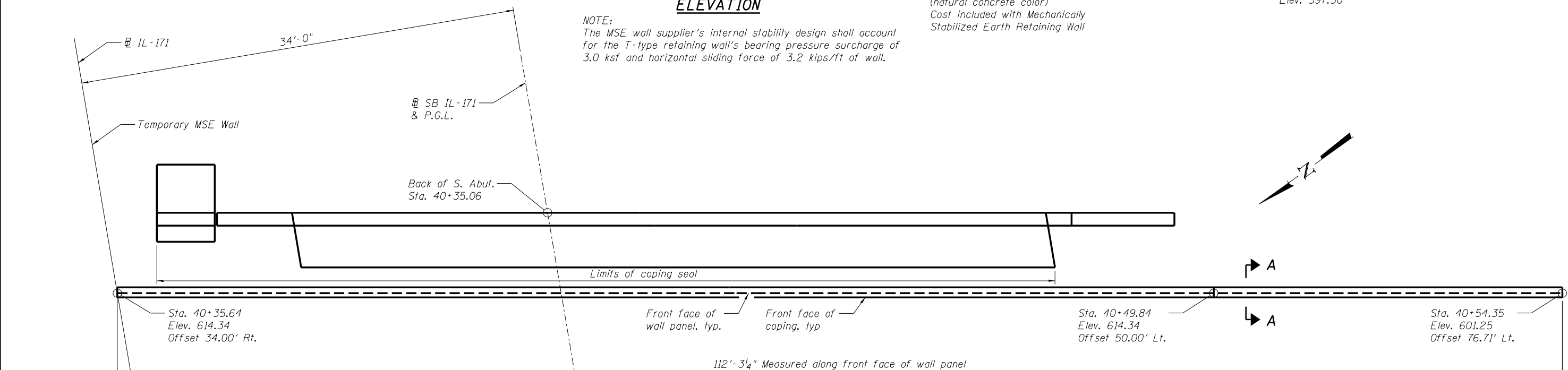
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				CONTRACT NO. 60W77
ILLINOIS FED. AID PROJECT				

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ELEVATION

NOTE:
The MSE wall supplier's internal stability design shall account for the T-type retaining wall's bearing pressure surcharge of 3.0 ksf and horizontal sliding force of 3.2 kips/ft of wall.



PLAN

NOTES:
1. See sheet SA33 for Section A-A.
2. MSE Wall stations and offsets are measured from the @ SB IL-171 to the front face of precast panels.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	1103
Temporary Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	336
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	1898
Concrete Sealer	Sq. Ft.	2146

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

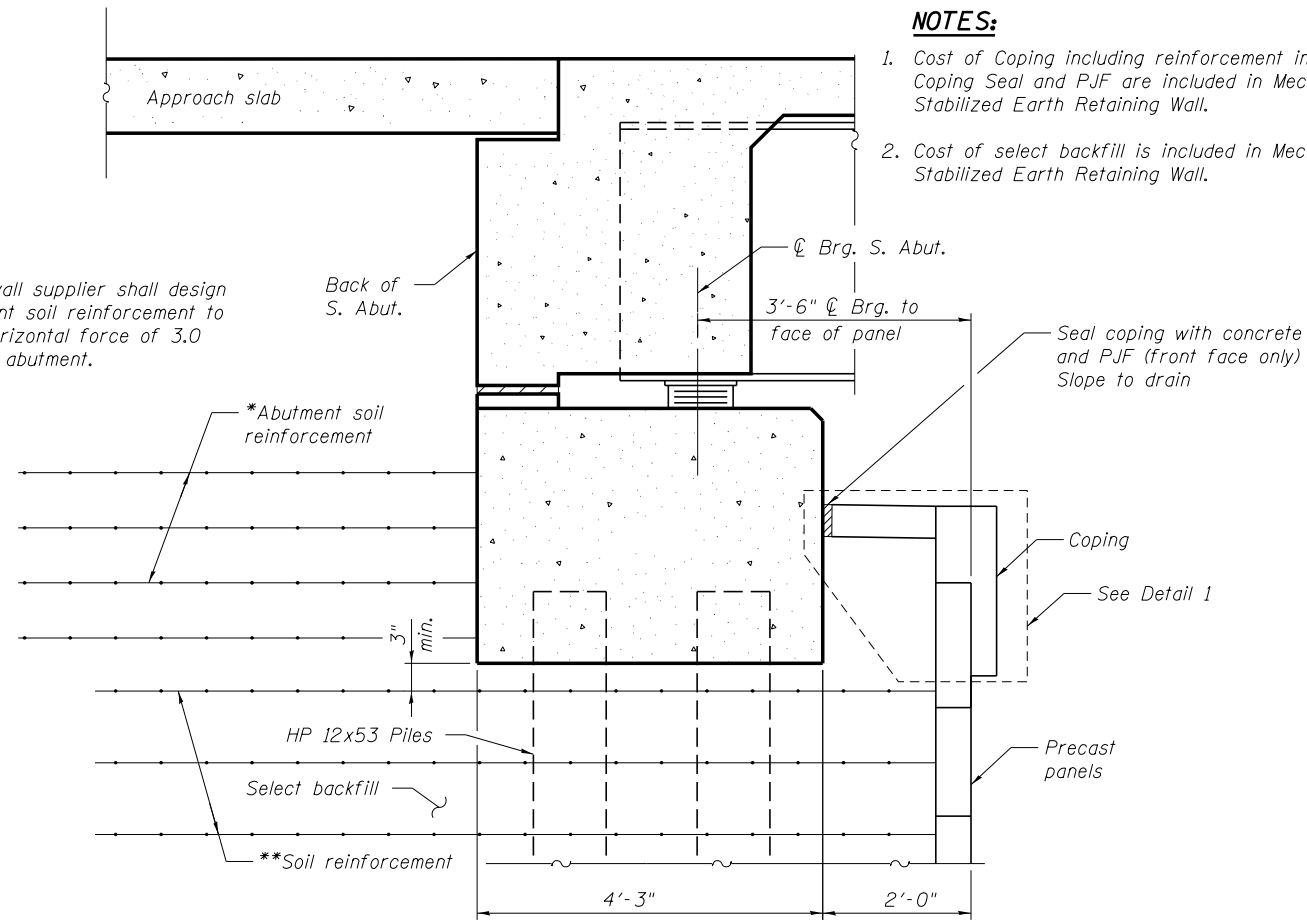
SOUTH ABUTMENT MSE WALL
STRUCTURE NO. 016-1510

SHEET NO. SA32 OF SA43 SHEETS

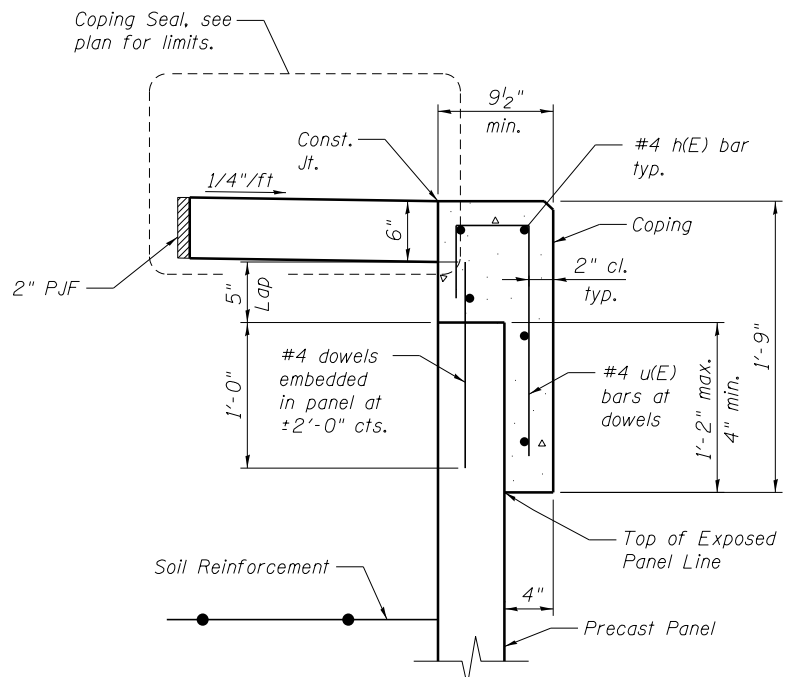
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373	(0707-608&611)HB-B	COOK	177	97
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

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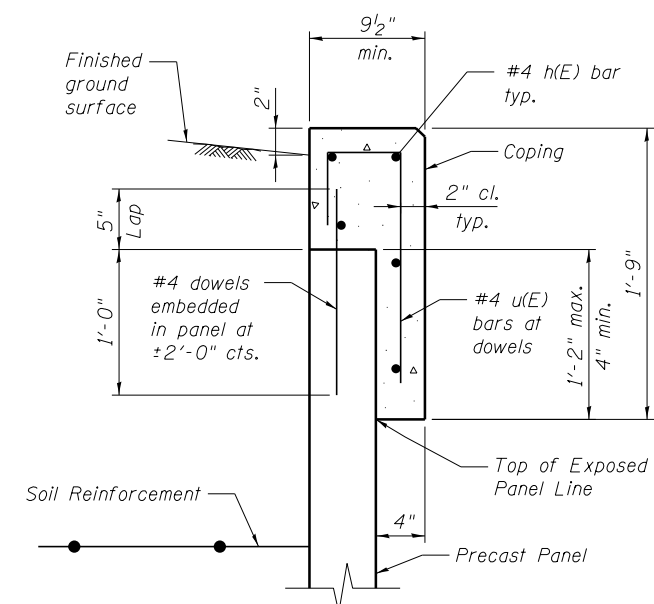
* The MSE wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 3.0 kips/ft. of abutment.



SECTION THRU SOUTH ABUTMENT
(Horiz. Dim. @ Rt. L's)



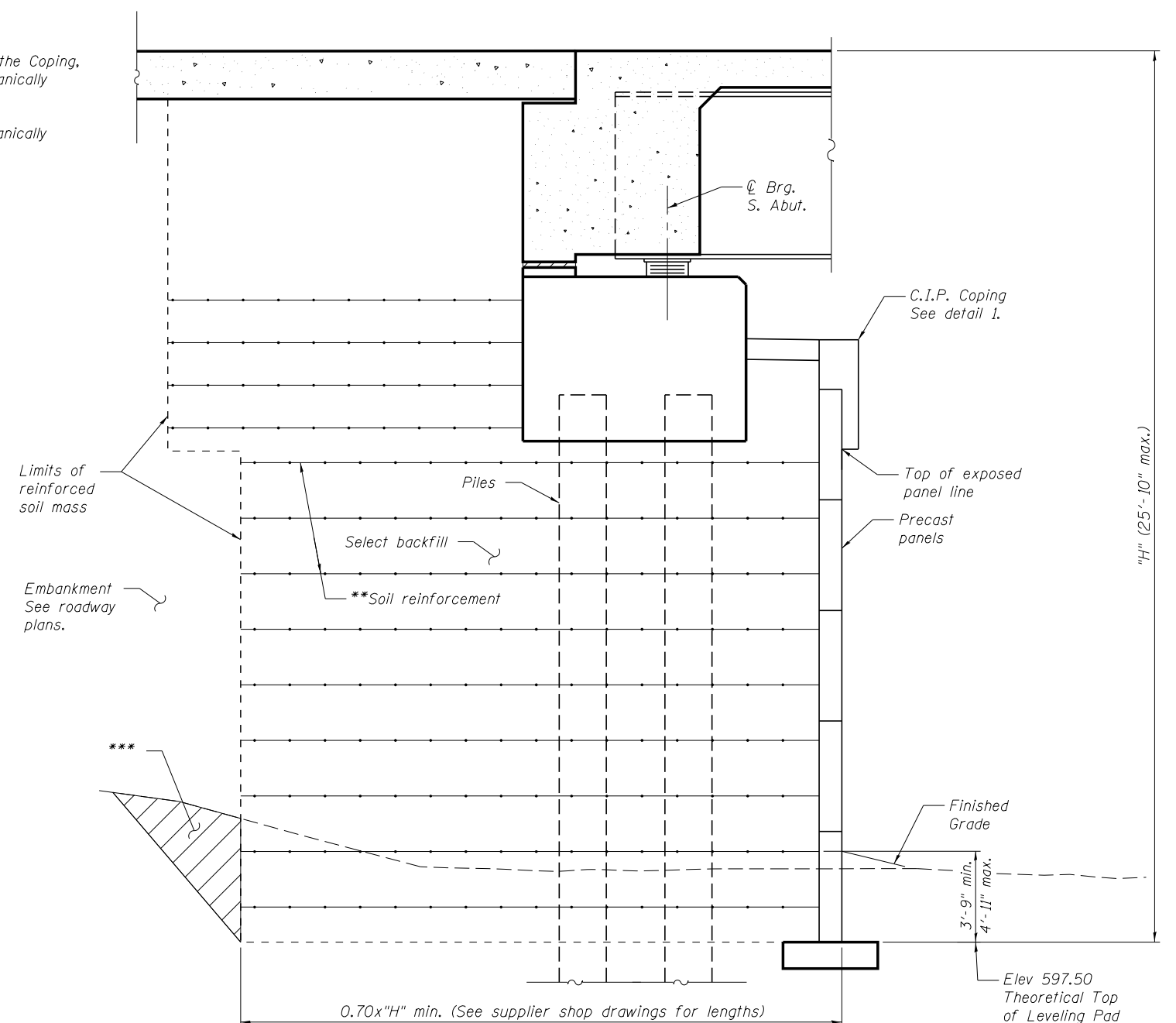
DETAIL 1
(Typical in front of S. Abut.)



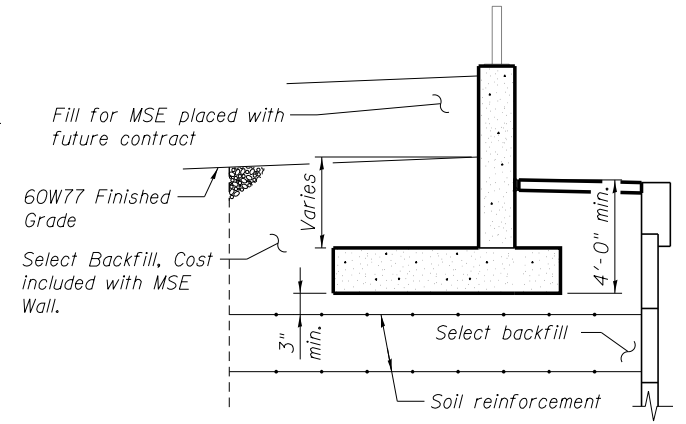
SECTION A-A

MINIMUM BAR LAP
(Coping)
#4 h(E) bar = 2'-0"

- NOTES:**
1. Cost of Coping including reinforcement in the Coping, Coping Seal and PJF are included in Mechanically Stabilized Earth Retaining Wall.
 2. Cost of select backfill is included in Mechanically Stabilized Earth Retaining Wall.



TYPICAL MSE WALL SECTION AT SOUTH ABUTMENT
(Horiz. Dim. @ Rt. L's)



SECTION THRU RETAINING WALL AT SOUTH ABUTMENT

- ** Cutting or bending of soil reinforcement beyond approved manufacturer's limits to miss piles is not permitted. Connecting soil reinforcement to piles or wrapping around piles is also not permitted. Special detailing and provisions for accommodating pile conflicts shall be included in the Submittals for Mechanically Stabilized Earth Retaining Walls.
- *** Overexcavation beyond structure excavation. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.

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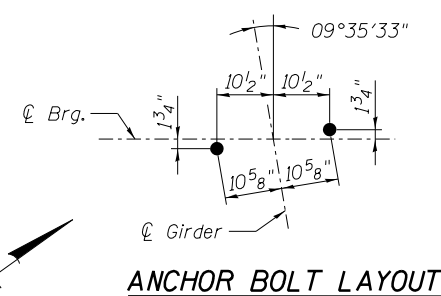
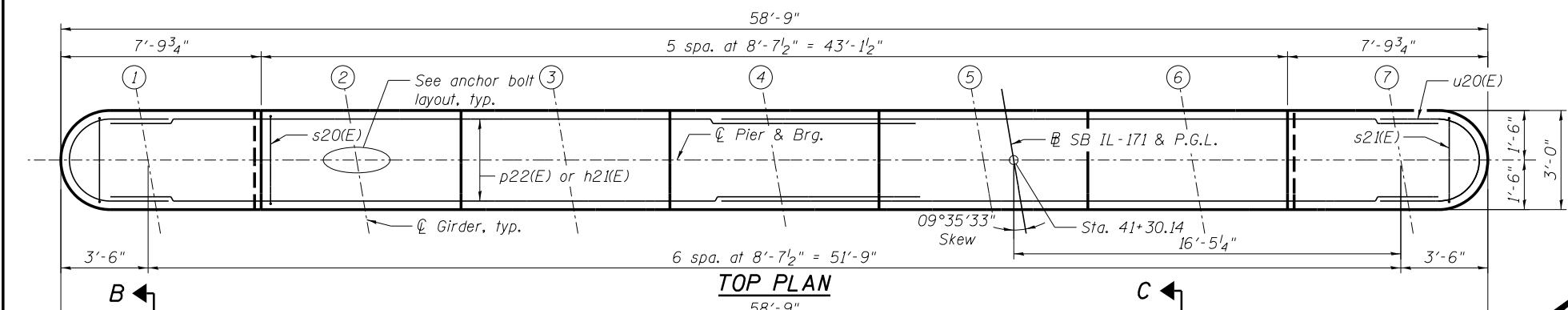
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DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT MSE WALL DETAILS
STRUCTURE NO. 016-1510
SHEET NO. SA33 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	98
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

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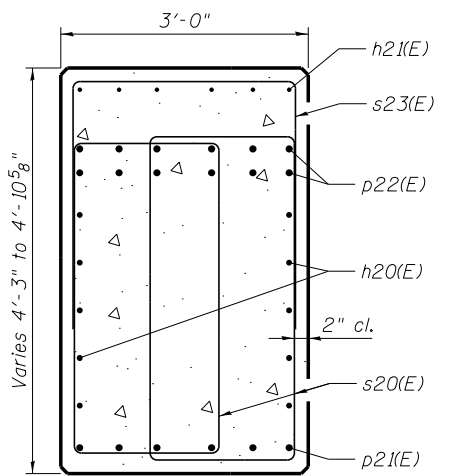
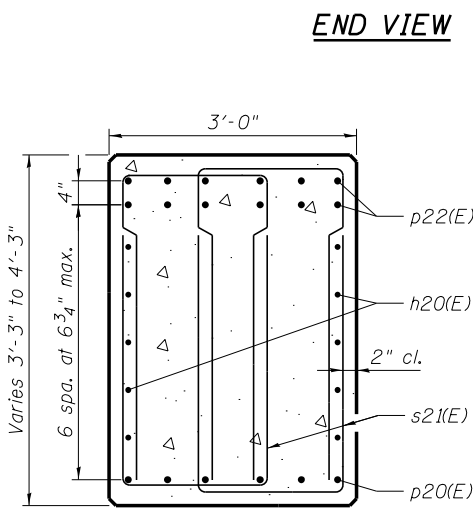
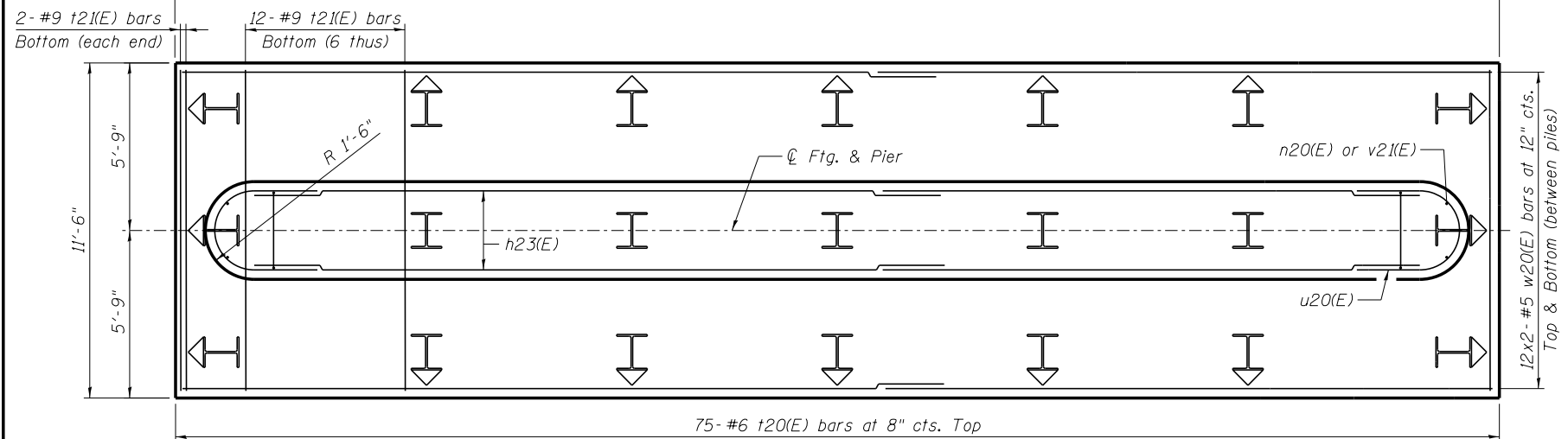
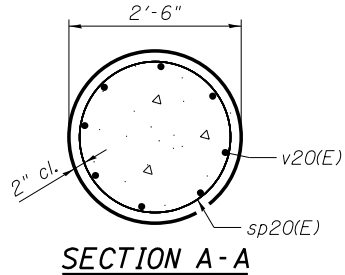
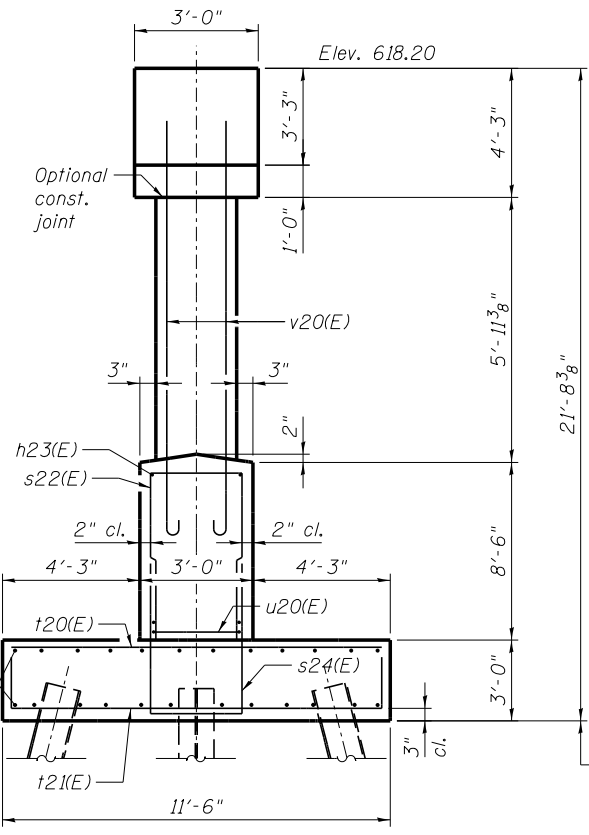
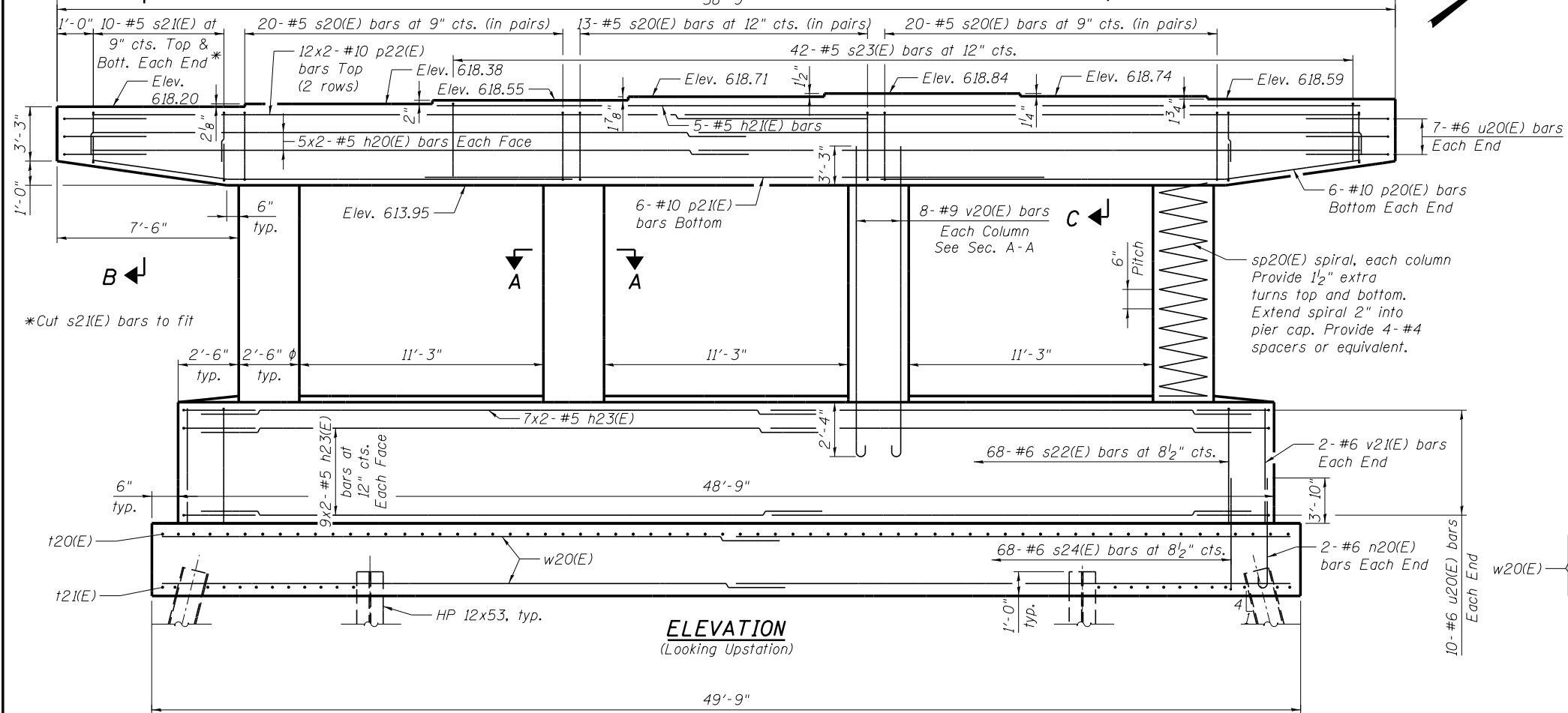
- NOTES:**
1. Space reinforcement in cap to miss anchor bolts.
 2. Pour steps monolithically with cap.
 3. For details of piles, see sheet SA37.
 4. See foundation plan, sheet SA4, for pile layout.
 5. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PILE DATA

Type: HP 12x53 with pile shoes
 Nominal Required Bearing: 418 kips
 Factored Resistance Available: 230 kips
 Est. Length: 33'
 No. Production Piles: 20
 No. Test Piles: 1

MINIMUM BAR LAPS

#5 Bar - 3'-8"
 #10 Bar - 12'-4"



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FOOTING PLAN

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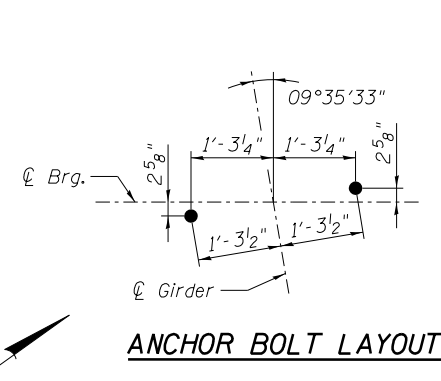
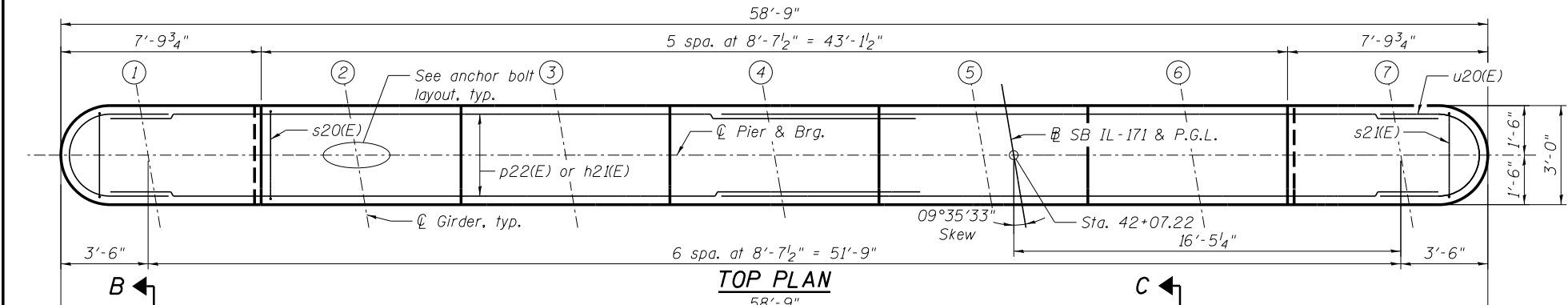
**PIER 1 DETAILS
 STRUCTURE NO. 016-1510**

SHEET NO. SA34 OF SA43 SHEETS

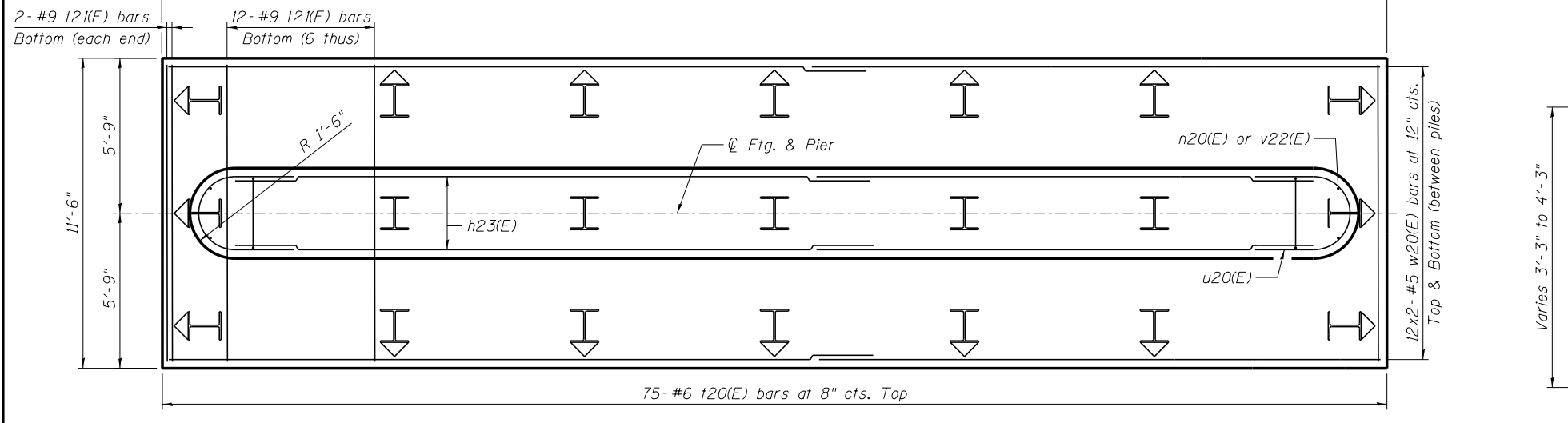
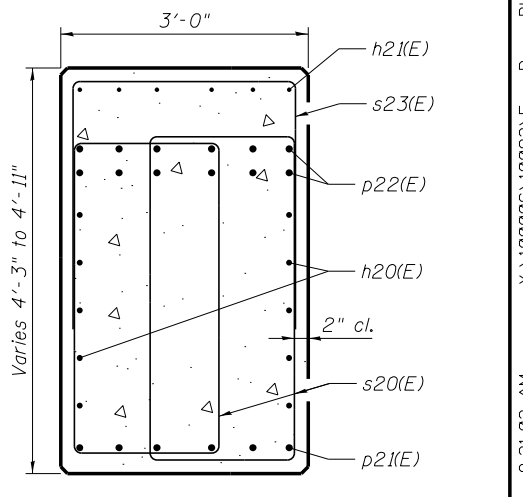
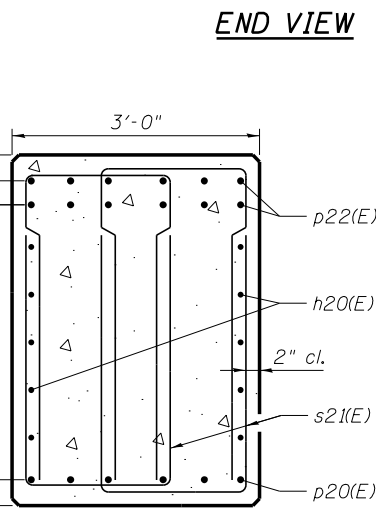
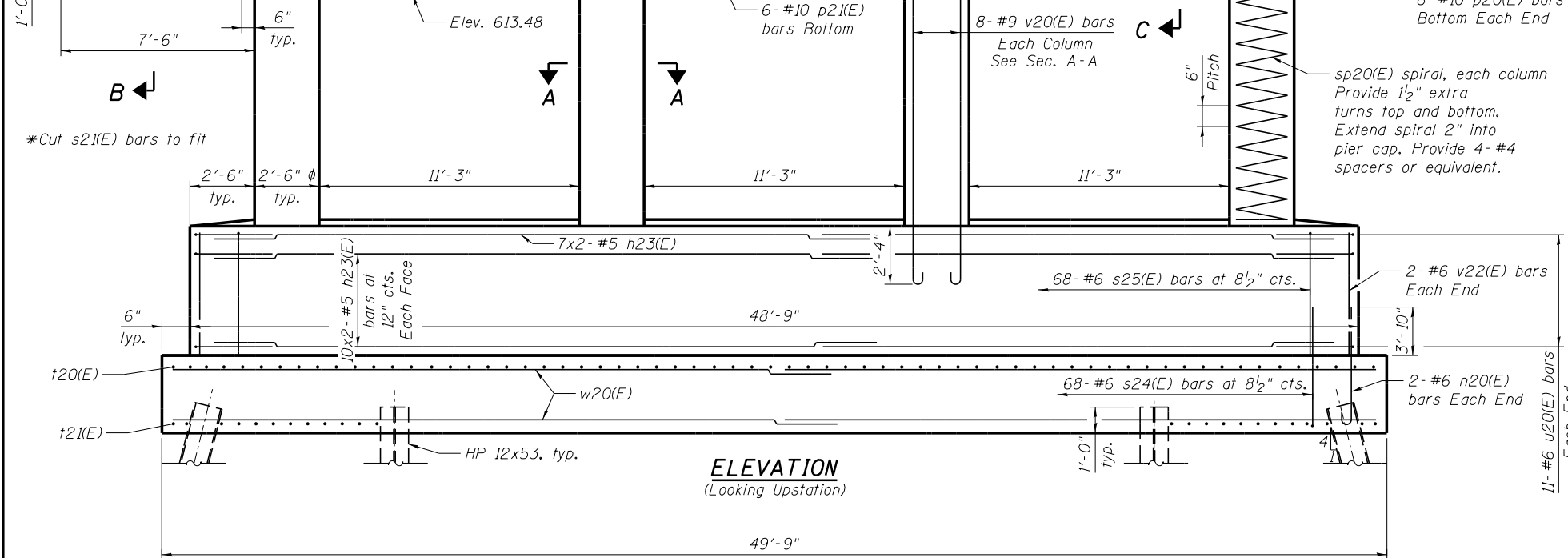
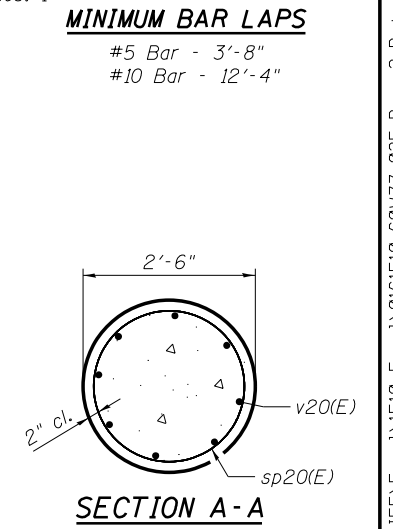
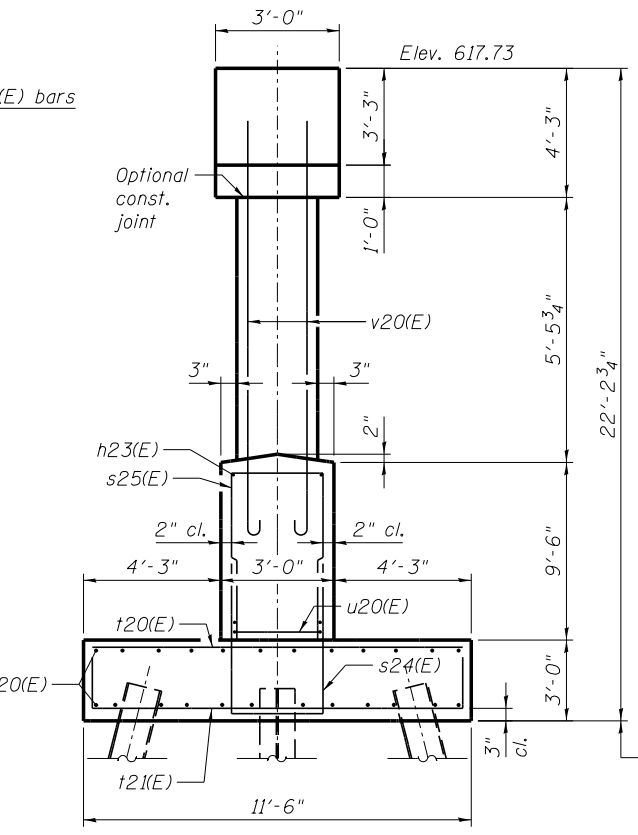
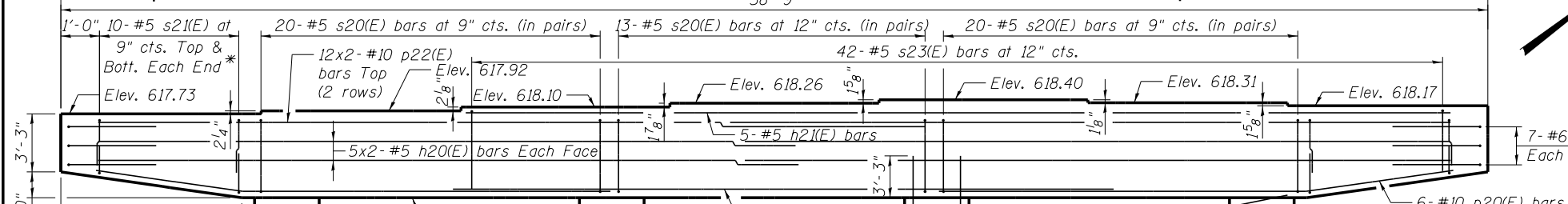
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	99
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

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- NOTES:**
1. Space reinforcement in cap to miss anchor bolts.
 2. Pour steps monolithically with cap.
 3. For details of piles, see sheet SA37.
 4. See foundation plan, sheet SA4, for pile layout.
 5. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



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FOOTING PLAN

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**PIER 2 DETAILS
STRUCTURE NO. 016-1510**

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PLOT SCALE =
PLOT DATE = 7/21/2014

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CHECKED - JHG
DRAWN - KMS
CHECKED - JHG

REVISED -
REVISED -
REVISED -
REVISED -

SHEET NO. SA35 OF SA43 SHEETS

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