

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	* 74	1
		BLINDS	CONTRACT NO. 60R80	

\* 74 + 2 = 76 TOTAL SHEETS

D-91-213-12



# PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 3509: SHERIDAN ROAD  
OVER RAVINES

- 1) SN 016-0617, 2) SN 016-0618, 3) SN 016-0619 & LAKE COOK ROAD RAVINE
- SN 016-0616

SECTION: 2011-217-BR  
PROJECT NO.: STP-IKG2(493)  
BRIDGE DECK OVERLAY & REPAIR  
COOK COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

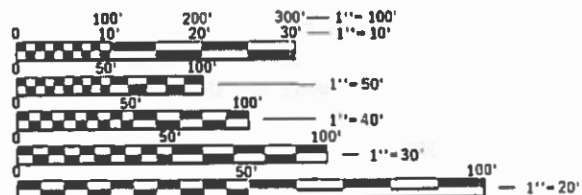
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION  
URBAN ARTERIAL

- 2014 ADT (SN 016-0616) = 3500
- 2017 ADT (SN 016-0617) = 3450
- 2017 ADT (SN 016-0618) = 3450
- 2014 ADT (SN 016-0619) = 3550

SPEED LIMIT: 30 MPH & 35 MPH (POSTED)  
FUNCTIONAL CLASS: MAJOR COLLECTOR

THIS PROJECT IS LOCATED IN THE  
VILLAGE OF GLENCOE AND IN THE  
CITY OF HIGHLAND PARK



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 MANAGER: FAWAD AQUEEL, PE, PTOE (847) 705-4247

CONTRACT NO. 60R80

PROPOSED IMPROVEMENT  
SN 016-0616  
BEGIN STA. = 134+60.00  
END STA. = 142+68.00

C-91-213-12

PROPOSED IMPROVEMENT  
SN 016-0618  
BEGIN STA. = 81+36.50  
END STA. = 85+52.50

PROPOSED IMPROVEMENT  
SN 016-0617  
BEGIN STA. = 100+50.00  
END STA. = 105+80.00



NEW TRIER TOWNSHIP  
LOCATION MAP

GROSS LENGTH = 758.33 FT. = 0.144 MILE  
NET LENGTH = 758.33 FT. = 0.144 MILE

PROPOSED IMPROVEMENT  
SN 016-0619  
BEGIN STA. = 45+16.50  
END STA. = 47+66.50



STEPHEN E. ALSBURY, S.E. P.E.  
DATE: 3/14/2019  
EXP. 11/30/2020  
SHEETS: 15-17, 22-63



THOMAS P. PAOLICCHI, P.E.  
DATE: 3/14/2019  
EXP. 11/30/2019  
SHEETS: 7-14, 18-21, 64

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 18 2019  
Anthony J. Douglas / AS  
REGIONAL ENGINEER  
May 19 2019  
E.A. ETK  
ENGINEER OF DESIGN AND ENVIRONMENT  
May 19 2019  
Paul E. Chaf  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 3

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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STATE STANDARDS

STANDARD NO.	DESCRIPTION
701006-05	OFF-RD OPERATIONS, 2L, 2W 15' TO 24' FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATION DAY ONLY
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS AND MARKERS)
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES - ROADWAY

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE LOCAL MUNICIPALITY.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- WHEN MILLED PAVEMENT IS OPENED TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH "BUTT JOINT AND HOT- MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREA.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), 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 STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- THE ENGINEER SHALL CONTACT DON CHIARUGI, TRAFFIC FIELD ENGINEER, AT DON.CHIARUGI@ILLINOIS.GOV A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE "ADVANCE WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE SPECIAL PROVISIONS FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM DISTRICT 1 BRIDGE INSPECTORS.
- SAW CUTTING OF PAVEMENTS, SHOULDERS, ETC., SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. THE COST OF SAW CUTTING REMOVAL ITEMS SHALL BE INCLUDED IN THE UNIT PRICES OF THESE ITEMS.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATION. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATION SHALL NOT CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

GENERAL NOTES - TRAFFIC CONTROL & PROTECTION

- STAGING PROCEDURES PRESENTED ARE THE SUGGESTED SEQUENCE OF OPERATIONS. THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE STAGING PROPOSAL TO THE ENGINEER FOR HIS APPROVAL.
- TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO HOURS FROM THE TIME OF NOTIFICATION.
- ALL TEMPORARY PAVEMENT MARKINGS PROPOSED WITHIN THE WORK AREA SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION PHASE CHANGE.

COMMITMENTS

- NO COMMITMENTS



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PLOT DATE = 4/23/2019	DATE - 03/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	2
			CONTRACT NO. 60R80	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY URBAN 0047	BRIDGE 016-0616 0047	BRIDGE 016-0617 0047	BRIDGE 016-0618 0047	BRIDGE 016-0619 0047	HIGHWAY LIGHTING URBAN 0047
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1430		160	520	450	300	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	240		240				
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	561			187	187	187	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	336		40	120	105	71	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	10			10			
44201353	CLASS C PATCHES, TYPE II, 10 INCH	SQ YD	375			251		124	
44201357	CLASS C PATCHES, TYPE III, 10 INCH	SQ YD	200				200		
50102400	CONCRETE REMOVAL	CU YD	54.9		7.5	20.2	21.9	5.3	
50300100	FLOOR DRAINS	EACH	40			12	24	4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	59.2		8.0	22.4	23.0	5.8	
50300260	BRIDGE DECK GROOVING	SQ YD	1578		436	582	401	159	
50300300	PROTECTIVE COAT	SQ YD	2403		690	872	596	245	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	12320		2830	6710	1290	1490	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5970		900	2850	1480	740	

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	DATE - 3/12/19	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	3
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY URBAN 0047	BRIDGE 016-0616 0047	BRIDGE 016-0617 0047	BRIDGE 016-0618 0047	BRIDGE 016-0619 0047	HIGHWAY LIGHTING URBAN 0047
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
50800515	BAR SPLICERS	EACH	14		14				
52000110	PREFORMED JOINT STRIP SEAL	FOOT	274		46	114	76	38	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	7		7				
52100520	ANCHOR BOLTS, 1"	EACH	14		14				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	10			10			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	15		4	4	4	3	
67100100	MOBILIZATION	L SUM	1		0.25	0.25	0.25	0.25	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	124	124					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	41	41					
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	1730	1730					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	250	250					
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1					
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1					

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	4
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				

					ROADWAY URBAN 0047	BRIDGE 016-0616 0047	BRIDGE 016-0617 0047	BRIDGE 016-0618 0047	BRIDGE 016-0619 0047	HIGHWAY LIGHTING URBAN 0047
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
*	7800200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4885	4885					
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1955	1955					
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	70	46	6	10	6	2	
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	28	28					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	70	46	6	10	6	2	
*	81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	1000						1000
*	82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4						4
*	83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	4						4
*	84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	6						6
*	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1						1
*	X0323002	TEMPORARY ELECTRIC SERVICE CONNECTION	EACH	1						1
*	X0323003	TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1						1
*	X0326133	TEMPORARY WOOD POLE, 45 FEET, CLASS 5	EACH	2						2
	X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	72		72				

\* = SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	5
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY URBAN 0047	BRIDGE 016-0616 0047	BRIDGE 016-0617 0047	BRIDGE 016-0618 0047	BRIDGE 016-0619 0047	HIGHWAY LIGHTING URBAN 0047
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2843		1246	706	557	334	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		0.25	0.25	0.25	0.25	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	7		7				
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	11080		1780	6570	1240	1490	
Z0001905	STRUCTURAL STEEL REPAIR	POUND	19310		1470	5590	11500	750	
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	1599		451	579	407	162	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1599		451	579	407	162	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	403		64	291	22	26	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	3			2		1	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	20			11	4	5	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4					
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4						4
* Z0033040	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL	EACH	1						1
Z0041895	POLYMER CONCRETE	CU FT	4.2		1.6	1.3		1.3	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	8						8
X2300022	STONE PARAPET REPAIR	CU FT	46			27		19	

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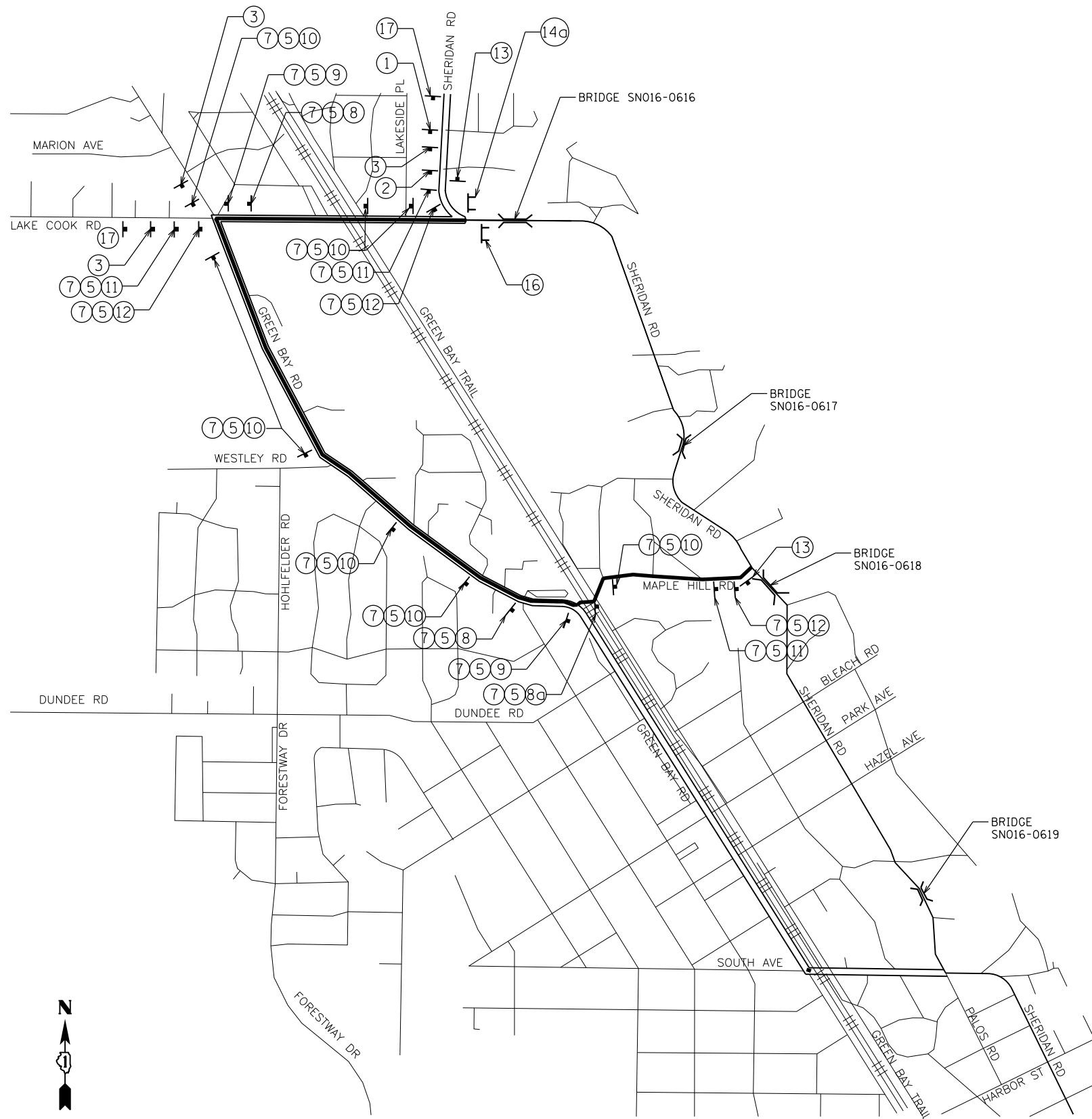
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	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	6
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



**SIGN LEGEND**

①		W20-3 48 X 48	⑧		M4-9 24 X 30
②		W20-3(0) 48 X 48	⑨		M4-9 24 X 30
③		W20-2 48 X 48	⑩		M4-9 24 X 30
④	NOT USED		⑪		M4-9 24 X 30
⑤		24 x 18 MINIMUM 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND (SPECIAL)	⑫		M4-9 24 X 30
⑥		M3-1 24 X 12	⑬		M4-8A 24 X 18
⑦		M3-3 24 X 12	⑭		R11-4 60 X 30 (ON TYPE III BARRICADE)
⑧a		M4-9 24 X 30	⑭a		R11-2 48 X 30 (ON TYPE III BARRICADE)
			⑮		M4-10L 48 X 18 (ON TYPE III BARRICADE)
			⑯		R11-2 48 X 30 (ON TYPE III BARRICADE)
			⑰		24 x 18 MINIMUM 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND (SPECIAL)

**SYMBOL LEGEND**

- DETOUR SIGN
- DETOUR ROUTE (TRAFFIC)
- TYPE III BARRICADE

**NOTES**

1. REFER TO DETAIL TC-21 FOR ADDITIONAL INFORMATION.
2. THIS IS A ONE WAY DETOUR RESTRICTING EB SHERIDAN ROAD TRAFFIC. ALL EB TRAFFIC WILL BE DETOURED TO NB SHERIDAN ROAD.

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PLOT DATE = 3/22/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

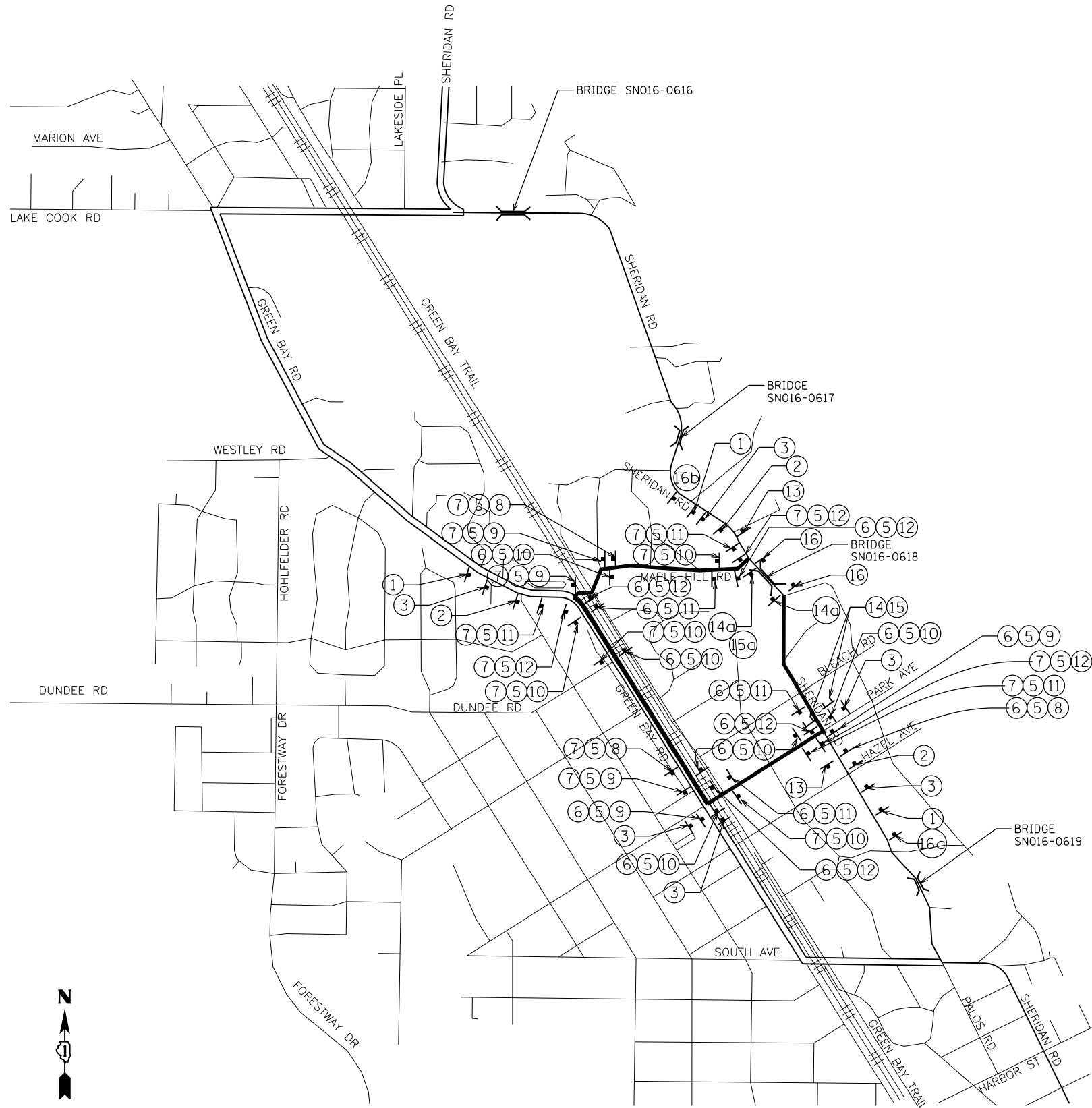
**SHERIDAN DETOUR PLAN  
BRIDGE SN016-0616 DETOUR**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	7
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				







**SIGN LEGEND**

①		W20-3 48 X 48	⑧		M4-9 24 X 30
②		W20-3(0) 48 X 48	⑨		M4-9 24 X 30
③		W20-2 48 X 48	⑩		M4-9 24 X 30
④		NOT USED	⑪		M4-9 24 X 30
⑤		24 x 18 MINIMUM 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND (SPECIAL)	⑫		M4-9 24 X 30
⑥		M3-1 24 X 12	⑬		M4-8A 24 X 18
⑦		M3-3 24 X 12	⑭		R11-4 60 X 30 (ON TYPE III BARRICADE)
			⑭a		R11-2 48 X 30 (ON TYPE III BARRICADE)
			⑮		M4-10L 48 X 18 (ON TYPE III BARRICADE)
			⑮a		M4-10R 48 X 18 (ON TYPE III BARRICADE)
			⑯		R11-2 48 X 30 (ON TYPE III BARRICADE)
			⑯a		24 x 18 MINIMUM 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND (SPECIAL)
			⑯b		24 x 18 MINIMUM 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND (SPECIAL)

**SYMBOL LEGEND**

- DETOUR SIGN
- DETOUR ROUTE (TRAFFIC)
- TYPE III BARRICADE

**NOTES**

1. REFER TO DETAIL TC-21 FOR ADDITIONAL INFORMATION.

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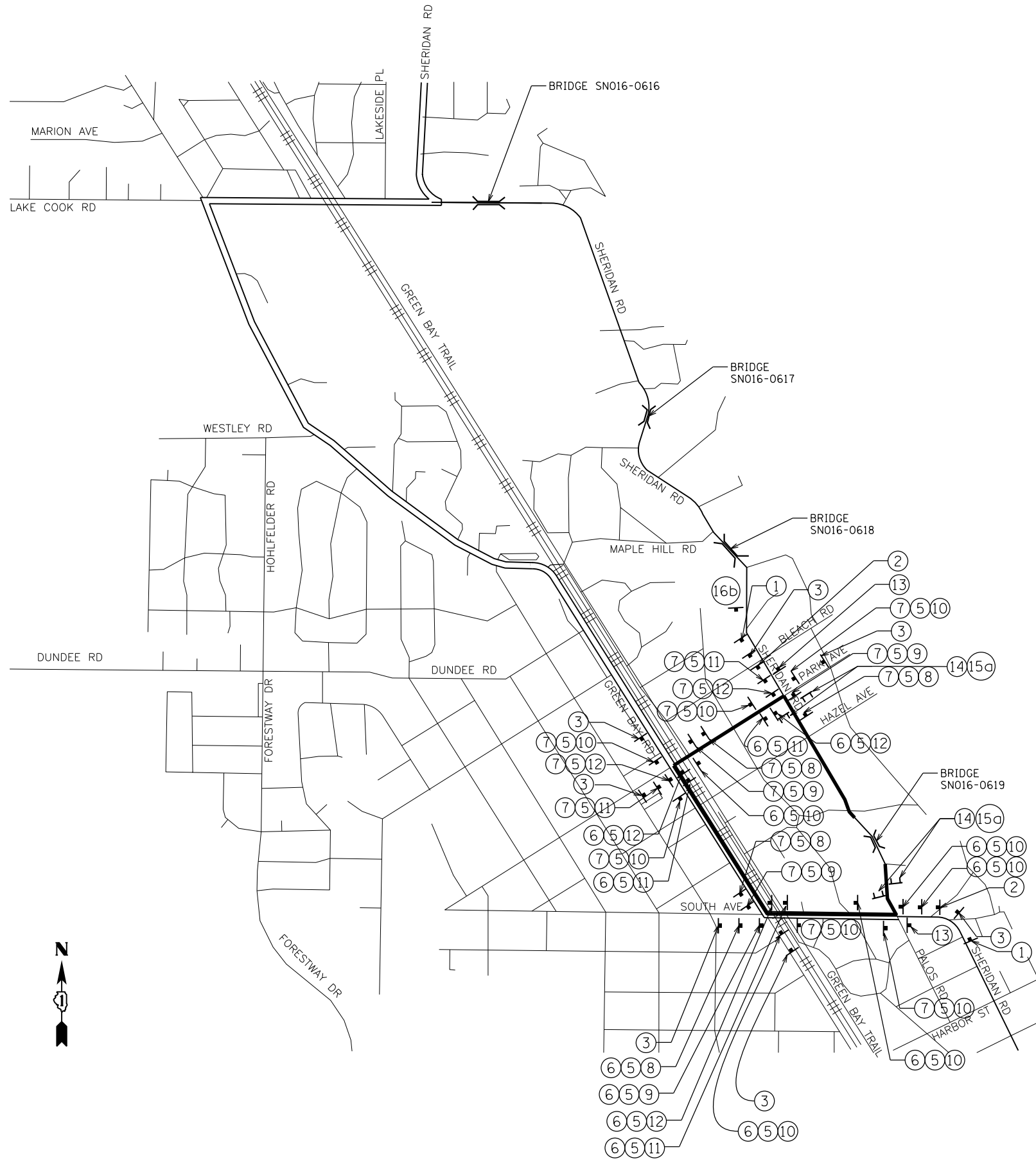
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PLOT DATE = 3/22/2019	CHECKED - TP	REVISED -
	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHERIDAN DETOUR PLAN  
BRIDGE SN016-0618 DETOUR**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	9
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



**SIGN LEGEND**

①		W20-3 48 X 48	⑧		M4-9 24 X 30
②		W20-3(0) 48 X 48	⑨		M4-9 24 X 30
③		W20-2 48 X 48	⑩		M4-9 24 X 30
④		NOT USED	⑪		M4-9 24 X 30
⑤		24 x 18 MINIMUM 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND (SPECIAL)	⑫		M4-9 24 X 30
⑥		M3-1 24 X 12	⑬		M4-8A 24 X 18
⑦		M3-3 24 X 12	⑭		R11-4 60 X 30 (ON TYPE III BARRICADE)
			⑭a		R11-2 48 X 30 (ON TYPE III BARRICADE)
			⑮		M4-10L 48 X 18 (ON TYPE III BARRICADE)
			⑮a		M4-10R 48 X 18 (ON TYPE III BARRICADE)
			⑯		R11-2 48 X 30 (ON TYPE III BARRICADE)
			⑯a		24 x 18 MINIMUM 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND (SPECIAL)
			⑯b		24 x 18 MINIMUM 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND (SPECIAL)

**SYMBOL LEGEND**

- DETOUR SIGN
- DETOUR ROUTE (TRAFFIC)
- TYPE III BARRICADE

**NOTES**

1. REFER TO DETAIL TC-21 FOR ADDITIONAL INFORMATION.

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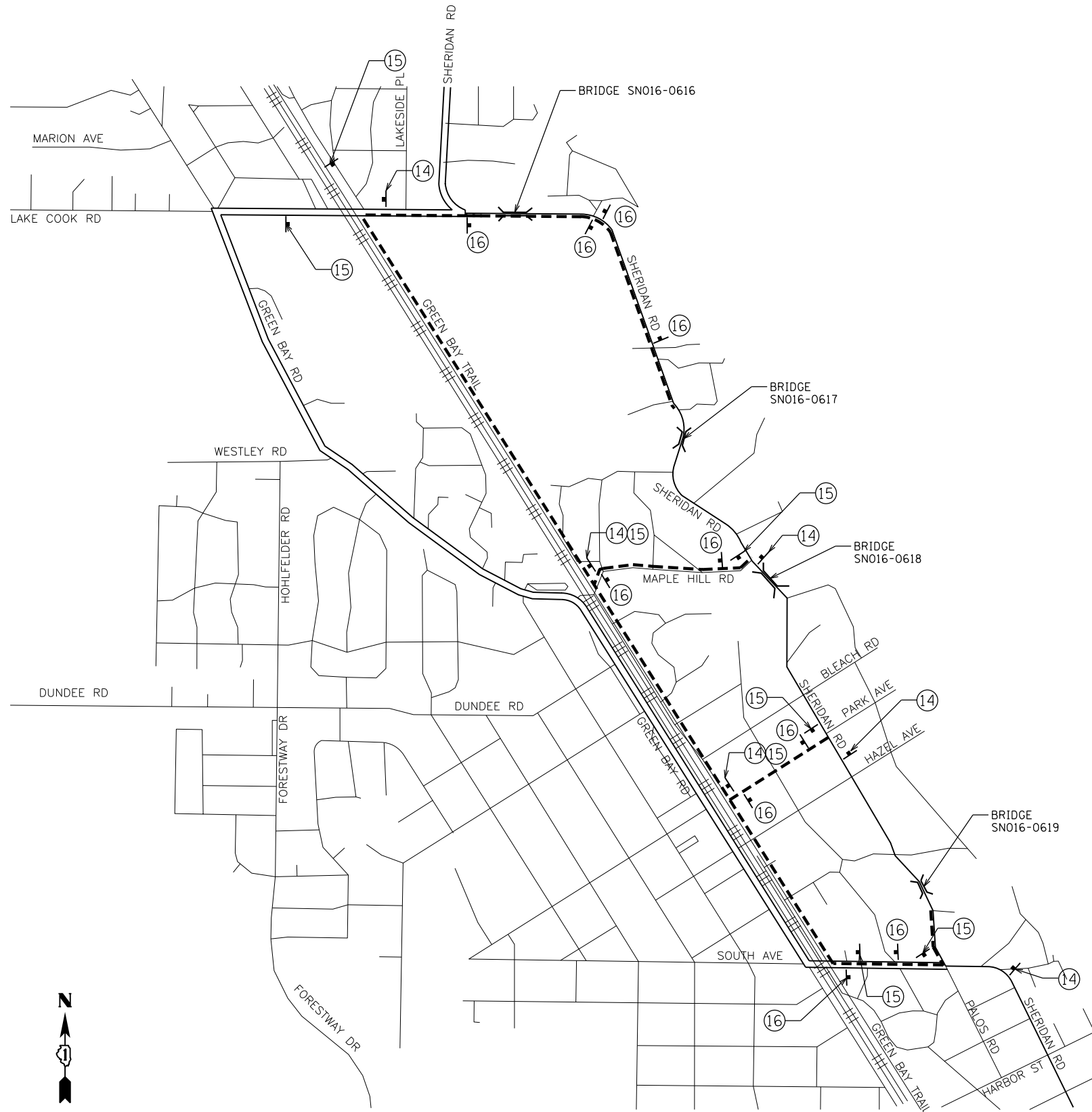
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	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**SHERIDAN DETOUR PLAN  
BRIDGE SN016-0619 DETOUR**

SCALE: NONE SHEET OF SHEETS STA. TO STA.



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	10
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



**SIGN LEGEND**

- ⑭  M4-9c 30 X 24
- ⑮  M4-9c 30 X 24
- ⑯  R4-11 30 X 30

**SYMBOL LEGEND**

-  DETOUR SIGN
-  DETOUR ROUTE (BIKE)

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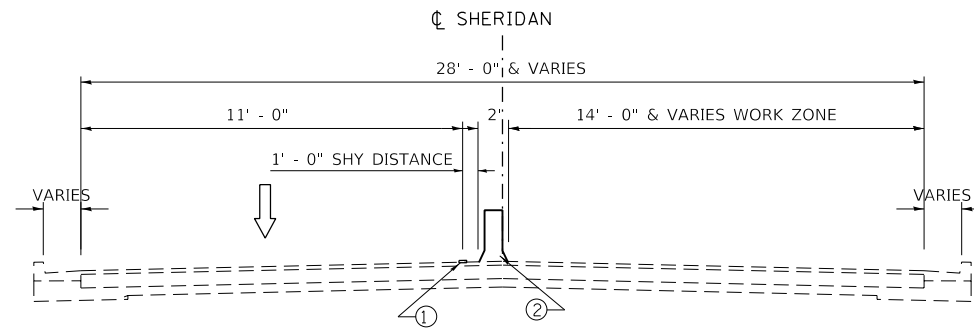
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHERIDAN DETOUR PLAN  
BIKE DETOUR**

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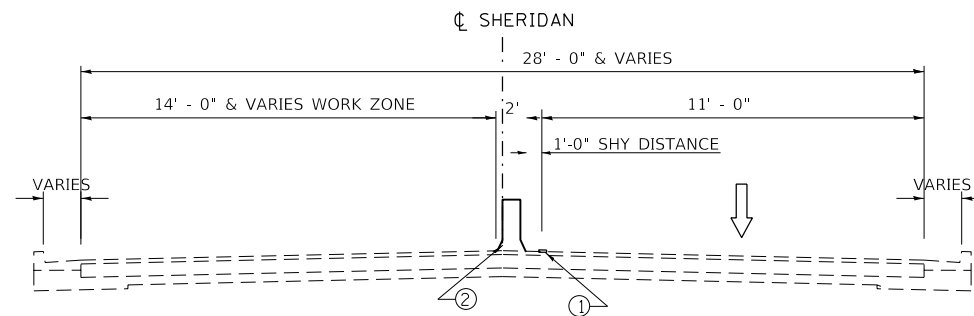
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	11
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



**STAGE 1 TYPICAL SECTION**

(LOOKING EAST)

STA. 137+58 TO STA. 138+28.42  
 AND  
 STA. 139+46.79 TO STA. 140+23.54  
 STA. 138+28.42 TO STA. 139+46.79 (SEE BRIDGE  
 PLANS FOR TYPICAL SECTION)



**STAGE 2 TYPICAL SECTION**

(LOOKING EAST)

STA. 137+78.42 TO STA. 138+28.42  
 AND  
 STA. 139+46.79 TO STA. 140+23.40  
 STA. 138+28.42 TO STA. 139+46.79 (SEE BRIDGE  
 PLANS FOR TYPICAL SECTION)

**LEGEND:**

- ① PAVEMENT MARKING TAPE, TYPE IV, 4"
- ② TEMPORARY CONCRETE BARRIER WALL
- ⇨ TRAFFIC DIRECTION

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
BRIDGE APPROACH OVERLAY AND BUTT JOINT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm), 1-3/4"	4% @ 70 Gyr.	QC/QA

1. THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ 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 IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

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	DATE - 3/12/19	REVISED -

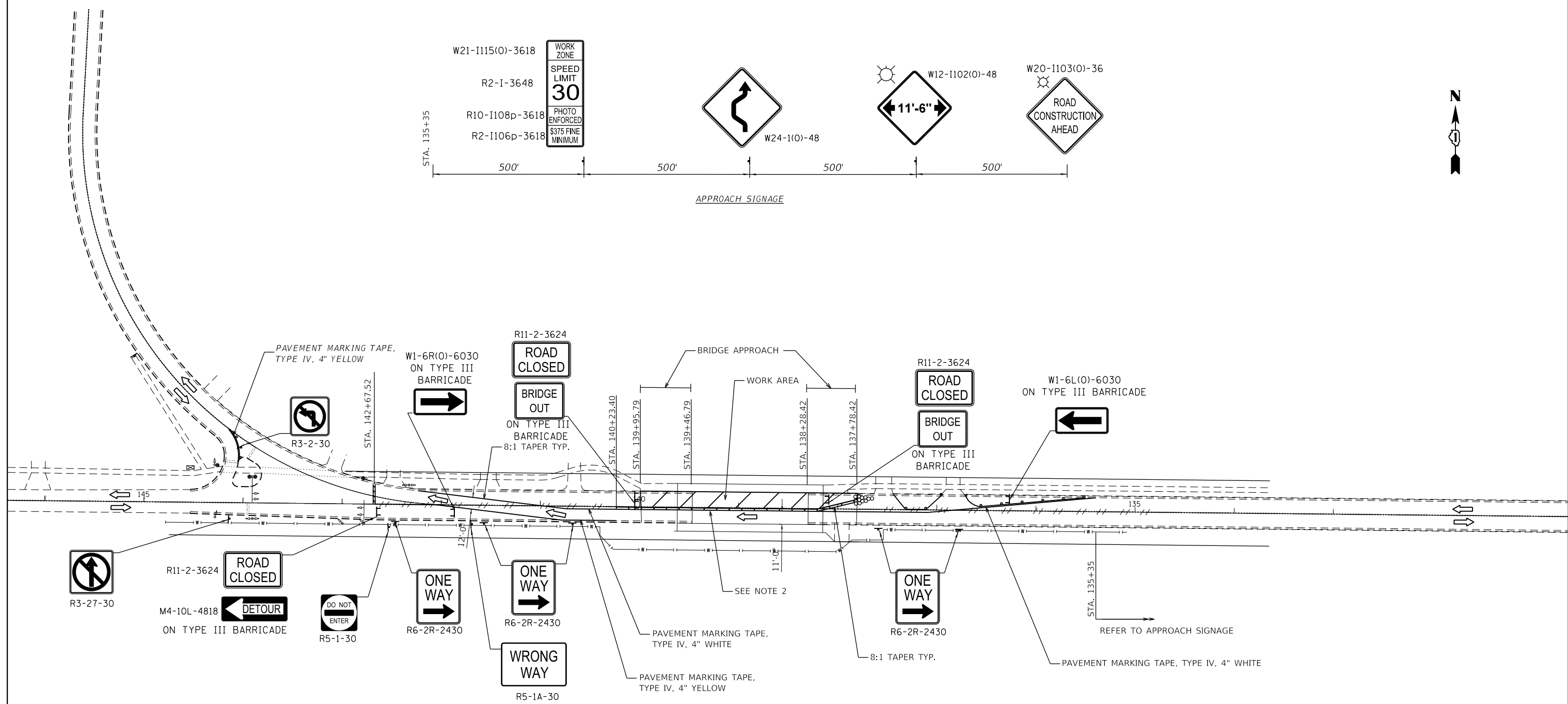
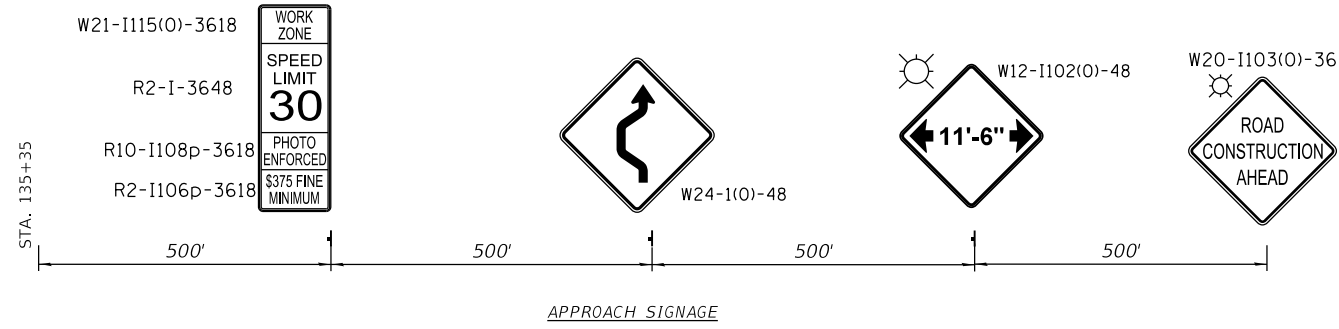
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STR. NO 016-0616 SEG. MAINTENANCE OF TRAFFIC  
 STAGING SECTIONS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	12
CONTRACT NO. 60R80				
ILLINOIS		FED. AID PROJECT		





- EXISTING PAVT MARKING REMOVAL
- ⊗ IMPACT ATTENUATORS, RELOCATE (FULL REDIRECTIVE, NARROW), TEST LEVEL 2
- ┆ TYPE III BARRICADE
- DRUM WITH STEADYBURN MONODIRECTIONAL LIGHT (SPACED AT 25' C-C)
- ┆ APPROACH SIGNAGE
- ▬ TEMP. CONC. BARR. WALL
- ➔ TRAFFIC FLOW DIRECTION

- NOTES:
- CONTRACTOR WILL COORDINATE WITH PROPERTY OWNERS ON NORTH SIDE OF SHERIDAN ROAD (WITHIN THE WORK ZONE) TO ENSURE THEY HAVE SAFE INGRESS/EGRESS AT ALL TIMES WHILE THE MOT IS IN PLACE.
  - CONTRACTOR SHALL REMOVE TEMPORARY CONCRETE BARRIER WALL ONCE THE BRIDGE JOINT WORK IS COMPLETED, SO THE BRIDGE DECK SCRAIFICATION AND OVERLAY WORK CAN BE PERFORMED. DRUMS SHALL BE USED IN PLACE OF THE TEMPORARY BARRIER WALL.

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PLOT SCALE = 100.0000' / in.	CHECKED - TP	REVISED -
PLOT DATE = 3/22/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STR. NO 016-0616 SEG. MAINTENANCE OF TRAFFIC  
STAGE 2**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	14
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				

**Combination Concrete Curb and Gutter B-6.12**  
 Lt. Sta. 105+06.40 to Lt. Sta. 105+16.40 = 10 Foot

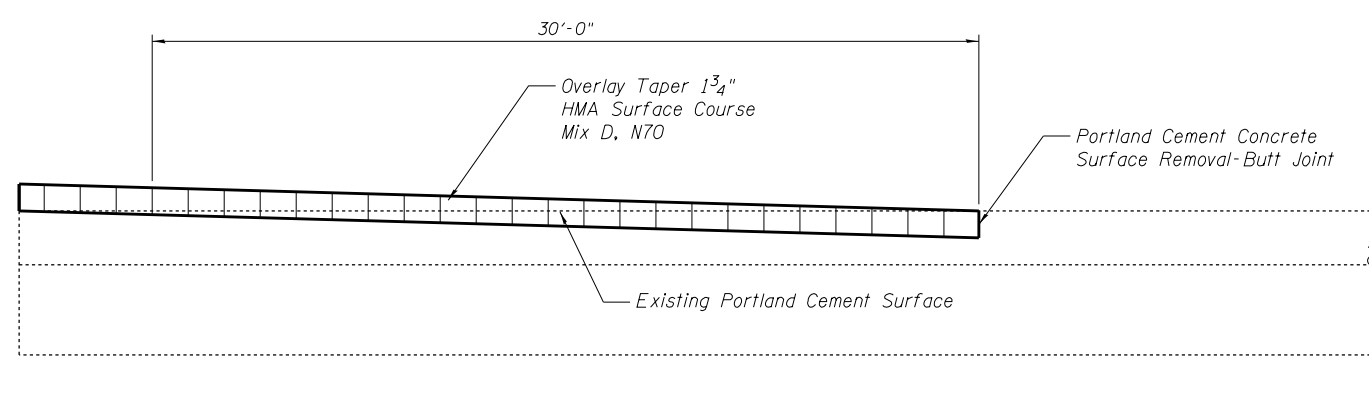
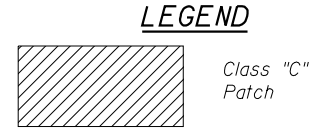
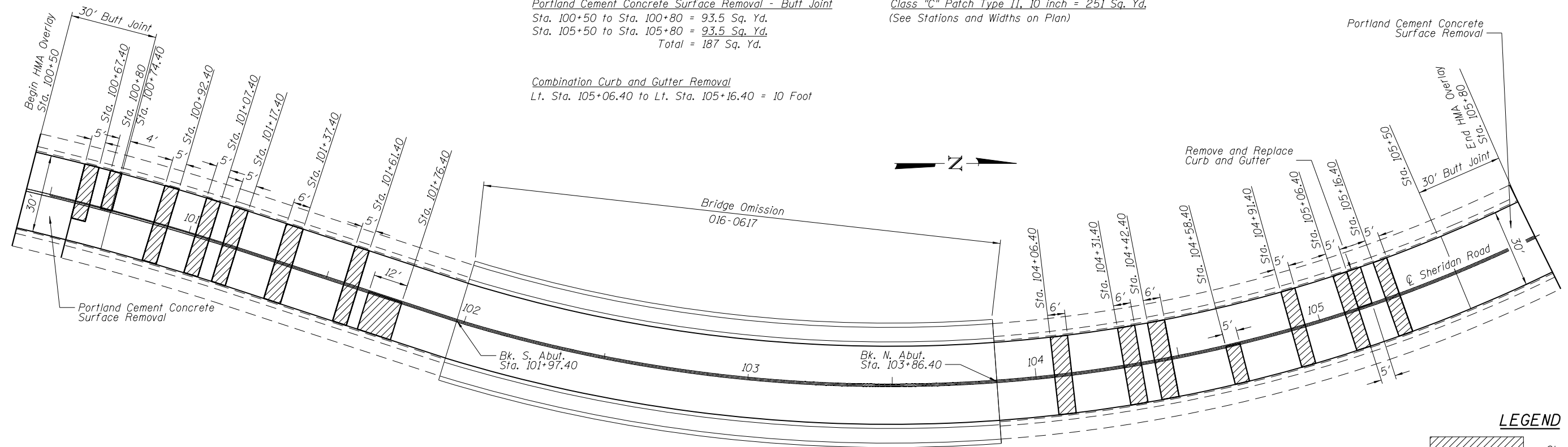
**Bituminous Material Tack Coat**  
 Sta. 100+50 to Sta. 101+97.40 = 260 Lbs.  
 Sta. 103+86.40 to Sta. 105+80 = 260 Lbs.  
 Total = 520 Lbs.

**Hot-Mix Surface Course Mix "D" N 70**  
 Sta. 100+50 to Sta. 101+97.40 = 60 Ton  
 Sta. 103+86.40 to Sta. 105+80 = 60 Ton  
 Total = 120 Ton

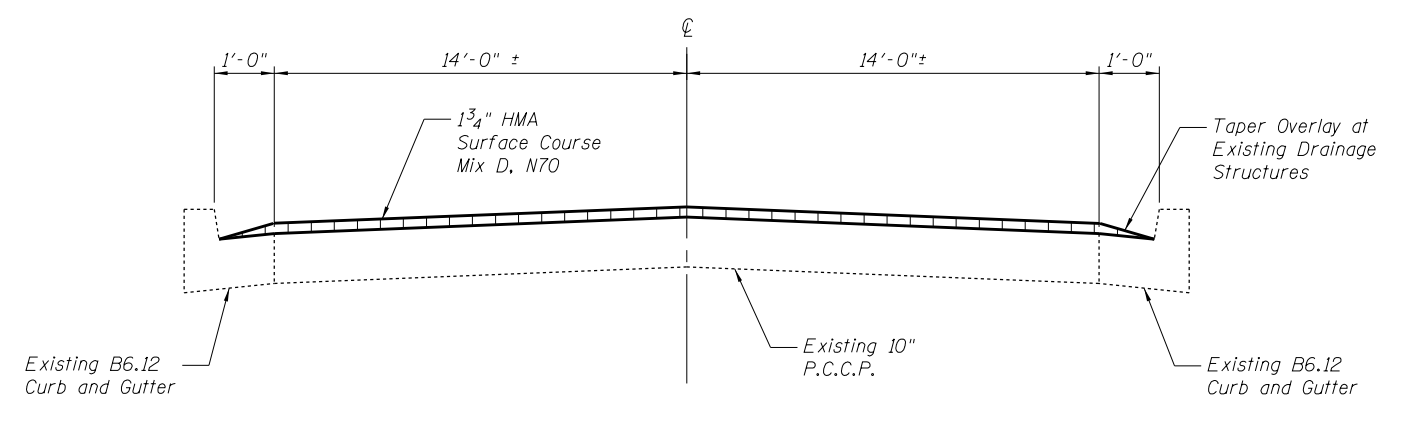
**Portland Cement Concrete Surface Removal - Butt Joint**  
 Sta. 100+50 to Sta. 100+80 = 93.5 Sq. Yd.  
 Sta. 105+50 to Sta. 105+80 = 93.5 Sq. Yd.  
 Total = 187 Sq. Yd.

**Class "C" Patch Type II, 10 inch = 251 Sq. Yd.**  
 (See Stations and Widths on Plan)

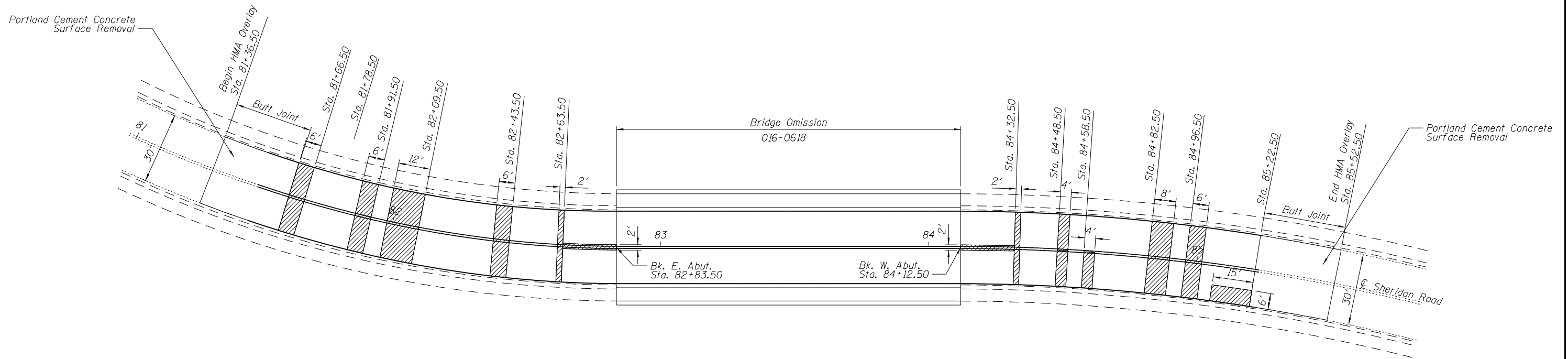
**Combination Curb and Gutter Removal**  
 Lt. Sta. 105+06.40 to Lt. Sta. 105+16.40 = 10 Foot



**DETAIL OF BUTT JOINTS**



**TYPICAL CROSS SECTION**

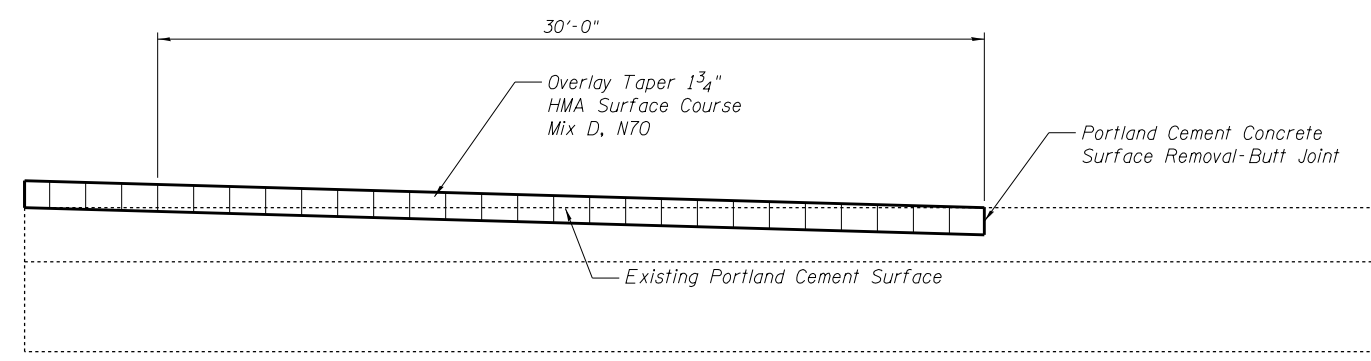
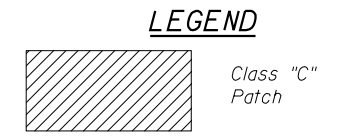


Bituminous Material Tack Coat  
 Sta. 81+36.50 to Sta. 82+83.50 = 225 Lbs.  
 Sta. 84+12.50 to Sta. 85+52.50 = 225 Lbs.  
 Total = 450 Lbs.

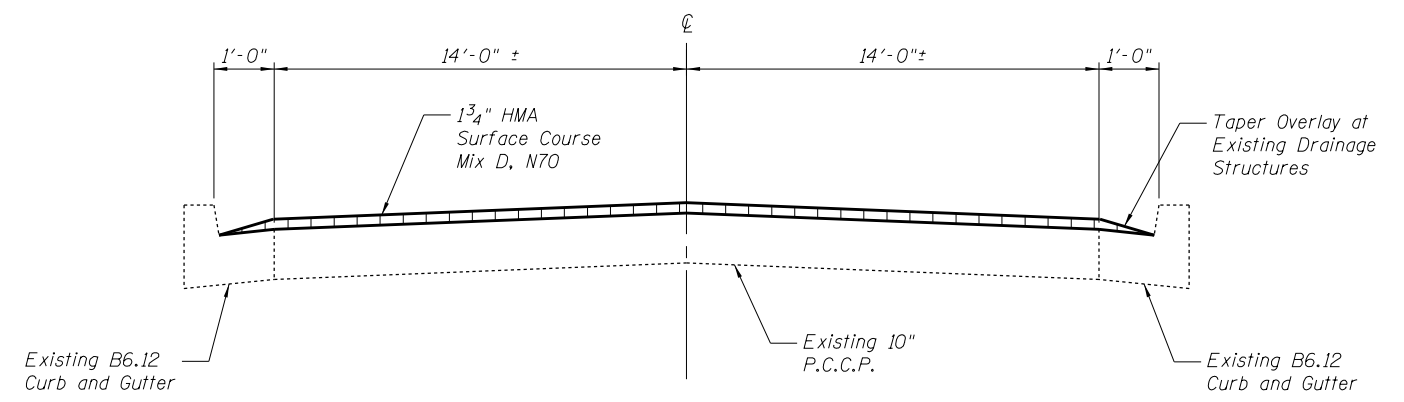
Hot-Mix Surface Course Mix "D" N 70  
 Sta. 81+36.50 to Sta. 82+83.50 = 54 Ton  
 Sta. 84+12.50 to Sta. 85+52.50 = 51 Ton  
 Total = 105 Ton

Portland Cement Concrete Surface Removal - Butt Joint  
 Sta. 81+36.50 to Sta. 81+66.50 = 93.5 Sq. Yd.  
 Sta. 85+22.50 to Sta. 85+52.50 = 93.5 Sq. Yd.  
 Total = 187 Sq. Yd.

Class "C" Patch Type III, 10 inch = 200 Sq. Yd.  
 (See Stations and Widths on Plan)



**DETAIL OF BUTT JOINTS**



**TYPICAL CROSS SECTION**



9901 S. Western Ave.  
 Chicago, IL 60643  
 Ph. 773-881-4788  
 F: 773.239.3728

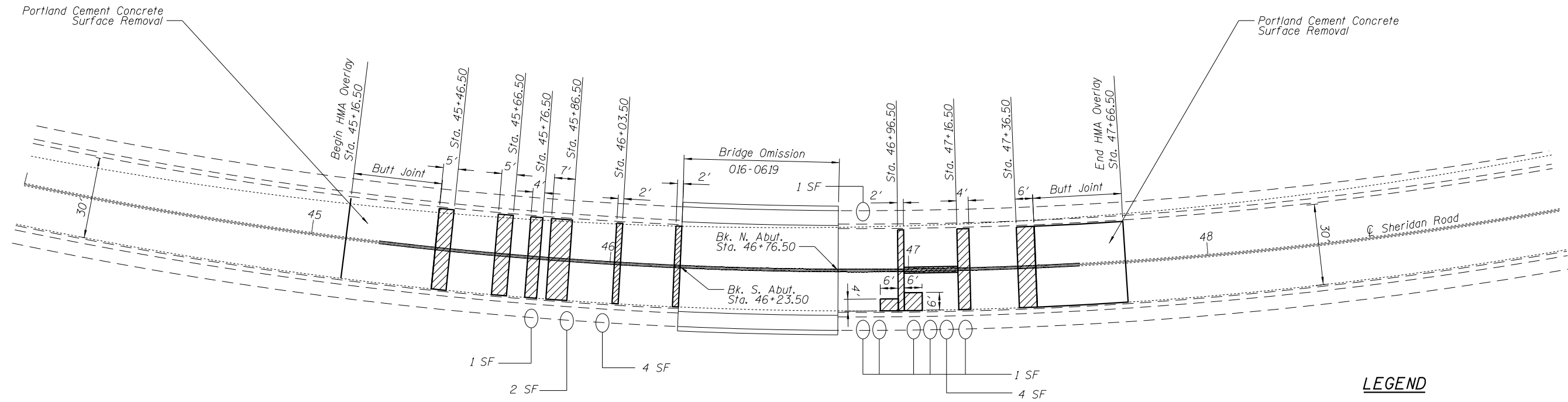
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CHECKED	SEA	REVISED	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**APPROACH ROAD PATCHING AND HMA OVERLAY  
 STRUCTURE NO. 016-0618**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	16
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



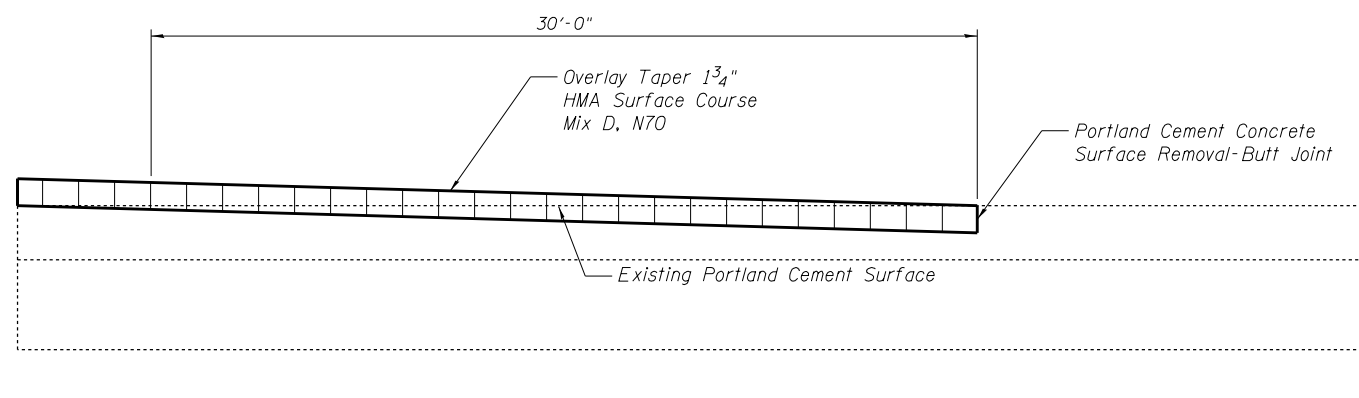
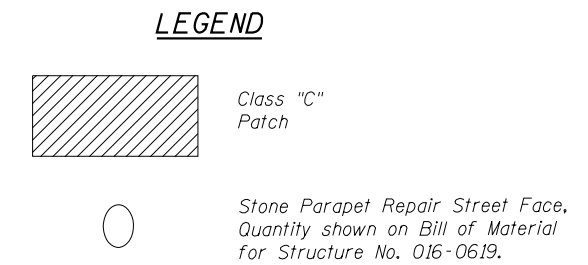


**Bituminous Material Tack Coat**  
 Sta. 45+16.50 to Sta. 46+23.50 = 150 Lbs.  
 Sta. 46+76.50 to Sta. 47+66.50 = 150 Lbs.  
 Total = 300 Lbs.

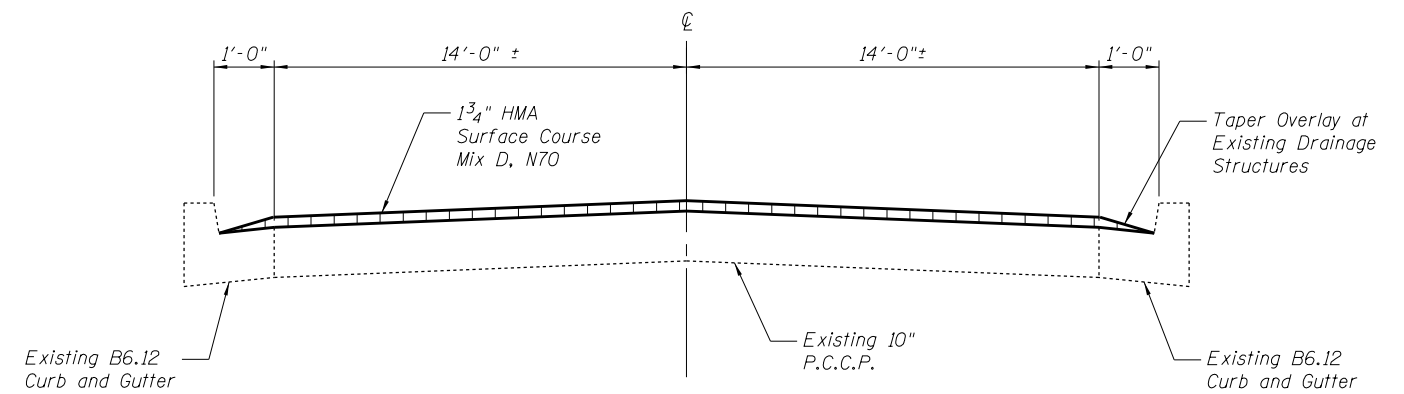
**Hot-Mix Surface Course Mix "D" N 70**  
 Sta. 45+16.50 to Sta. 46+23.50 = 39 Ton  
 Sta. 46+76.50 to Sta. 47+66.50 = 32 Ton  
 Total = 71 Ton

**Portland Cement Concrete Surface Removal - Butt Joint**  
 Sta. 45+16.50 to Sta. 45+46.50 = 93.5 Sq. Yd.  
 Sta. 47+36.50 to Sta. 47+66.50 = 93.5 Sq. Yd.  
 Total = 187 Sq. Yd.

**Class "C" Patch Type II, 10 inch = 124 Sq. Yd.**  
 (See Stations and Widths on Plan)



**DETAIL OF BUTT JOINTS**



**TYPICAL CROSS SECTION**

DESIGNED	SEA	REVISED	
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CHECKED	SEA	REVISED	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	17
STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

1. THE MATERIALS AND INSTALLATION METHODS SHALL COMPLY WITH THE LATEST CODES, STANDARDS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION. ALL WORK SHOWN ON THE PLANS AND DESCRIBED ELSEWHERE SHALL CONFORM TO THE LATEST NATIONAL ELECTRICAL CODE.
2. THE CONTRACTOR SHALL CONTACT COMED AS SOON AS POSSIBLE CONCERNING PENDING ELECTRICAL SERVICE INSTALLATION AND CONNECTION TO ENSURE AVAILABILITY OF ELECTRICAL POWER SUPPLY IN A TIMELY MANNER.
3. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE THE START OF ROADWAY CONSTRUCTION. TEMPORARY LIGHTING SHALL REMAIN IN OPERATION FOR BOTH STAGE I AND STAGE II.
4. OVERHEAD CABLES SHALL MAINTAIN CLEARANCE FROM GROUND IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE SECTION 225.18 AND FROM EXISTING OVERHEAD UTILITY ELECTRICAL LINES IN ACCORDANCE WITH COMED REQUIREMENTS.
5. ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE ENGINEER.
6. THE REMOVAL OF TEMPORARY LIGHTING UNITS SHALL INCLUDE ALL POLES, LUMINAIRES, MAST ARMS, MESSENGER WIRES, CABLES (INCLUDING UNDERGROUND CONDUCTORS IN UNIT DUCT), GROUND RODS, AND SERVICE DISCONNECT EQUIPMENT. ALL EQUIPMENT SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
7. CONTACT TO THE ELECTRIC UTILITY (NORA CABRALES AT (847) 929-2357) SHALL BE INITIATED BEFORE THE PRE-CONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT SHALL BE PRESENTED AT THAT MEETING. NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENCE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY, FURNISHED TO THE ENGINEER.
8. THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES AND COMBINED SERVICE. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED.
9. THE ELECTRIC SERVICE SHALL BE 240/120V. WHERE 240V SERVICE IS NOT AVAILABLE, THE CONTRACTOR MAY SUBMIT A PROPOSAL FOR 120V SERVICE, DROP CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED REGARDLESS OF THE SERVICE VOLTAGE APPLIED.
10. THE LIGHT POLE SETBACK FROM THE EDGE OF TRAVEL PAVEMENT TO CENTER OF POLE SHALL BE 18 FT. UNLESS THE LIGHT POLE IS BEHIND GUARDRAIL. THE LIGHT POLES INSTALLED BEHIND THE GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 8 FT. SETBACK FROM THE BACK OF THE SHOULDER TO CENTER OF POLE AND OR AS DIRECTED BY THE ENGINEER.
11. EACH LIGHTING UNIT SHALL BE CONTROLLED BY A PHOTO CELL MOUNTED ON EACH LUMINAIRE WITH THE LIGHTING CIRCUIT FED FROM THE TEMPORARY SERVICE DISCONNECT BOX. OTHER MEANS OF LUMINAIRE CONTROL CAN BE CONSIDERED IF APPROVED BY THE ENGINEER.
12. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TO DEVICE.
13. MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES, CALL 773-287-7672.

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
AERIAL CABLE, 3-1/8 NO. 4 WITH MESSENGER WIRE	FOOT	1000
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4
LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15 FT. MAST ARM	EACH	4
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	6
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
TEMPORARY ELECTRIC SERVICE CONNECTION	EACH	1
TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1
TEMPORARY WOOD POLE, 45 FEET, CLASS 5	EACH	2
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	8

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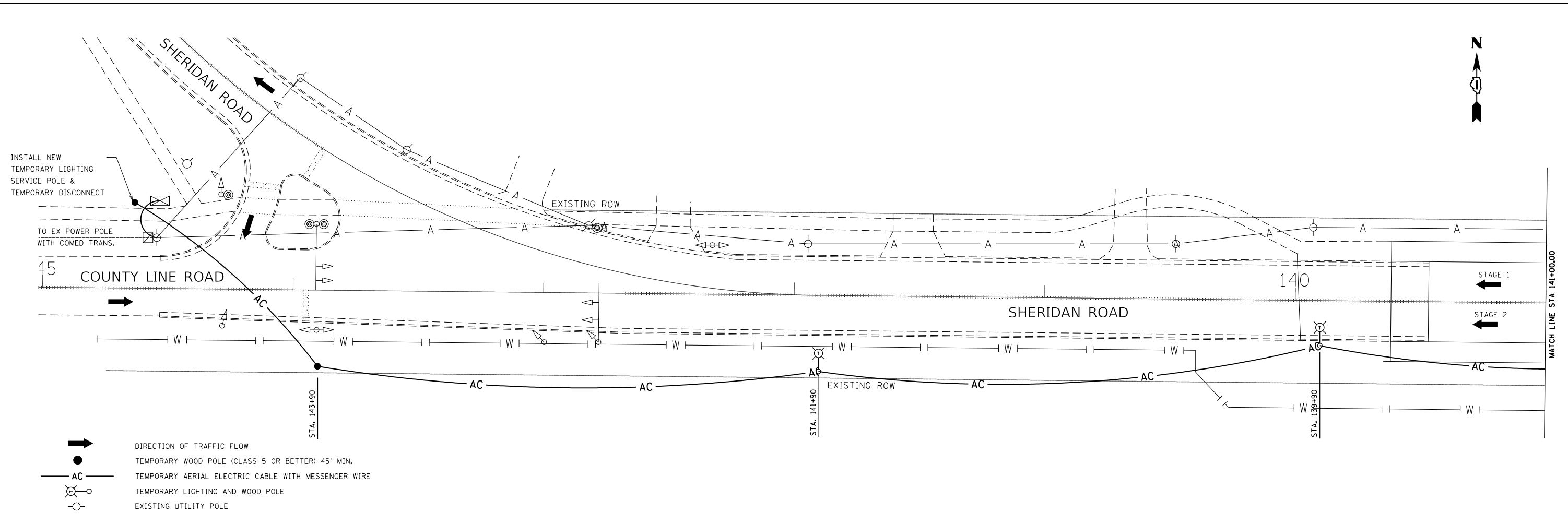
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

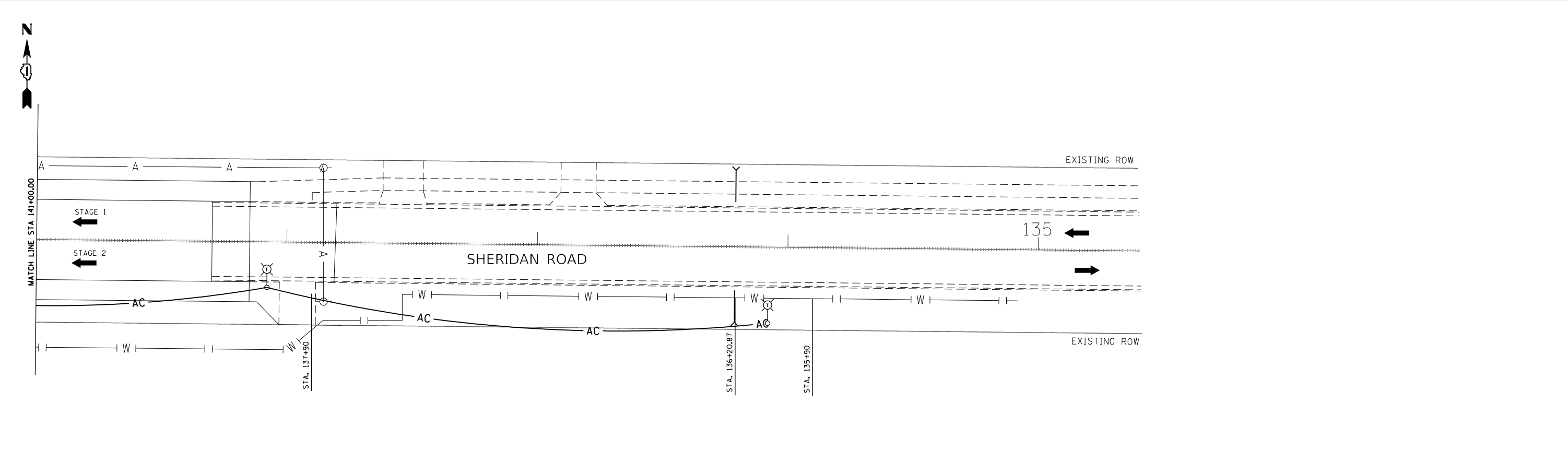
TEMPORARY ROADWAY  
LIGHTING NOTES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	18
CONTRACT NO. 60R80			ILLINOIS FED. AID PROJECT	



- DIRECTION OF TRAFFIC FLOW
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45' MIN.
- TEMPORARY AERIAL ELECTRIC CABLE WITH MESSENGER WIRE
- TEMPORARY LIGHTING AND WOOD POLE
- EXISTING UTILITY POLE



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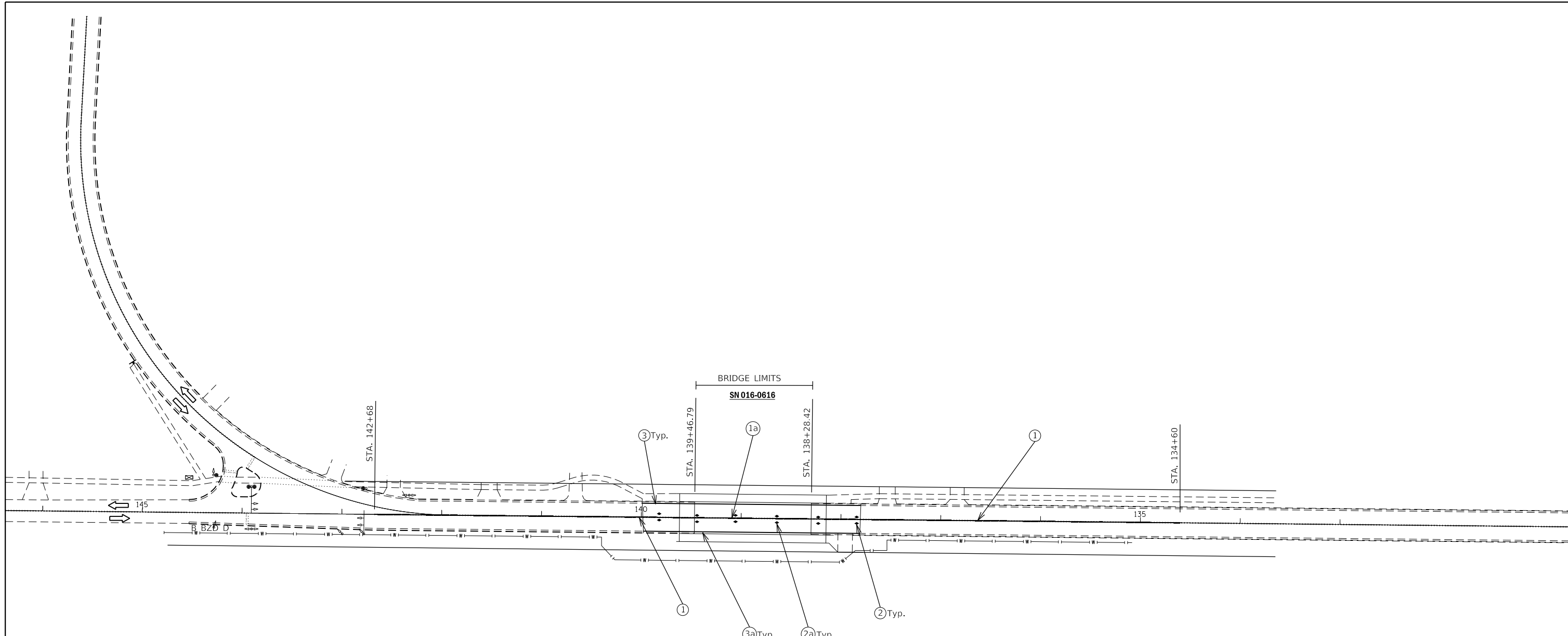


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DRAWN - MJC	REVISIONS -	
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PLOT DATE = 4/23/2019	DATE - 03/12/19	REVISED -

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

<b>TEMPORARY LIGHTING PLAN</b>				
SCALE: 1"=20'	SHEET 1	OF 1	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R80	



**LEGEND:**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) @ 11" C-C
- ② RAISED REFLECTIVE PAVEMENT MARKER @ 40' C-C
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
- ①a POLYUREA PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) @ 11" C-C
- ②a RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) @ 40' C-C
- ③a POLYUREA PAVEMENT MARKING - LINE 4" (WHITE)

**NOTES:**

1. REFER TO DISTRICT ONE DETAILS TC-11 AND TC-13 FOR ADDITIONAL INFORMATION.
2. ALL PAVEMENT MARKINGS ON THE BRIDGE DECK WILL BE POLYUREA.
3. ALL PAVEMENT MARKINGS ON THE BRIDGE APPROACHES WILL BE THERMOPLASTIC.

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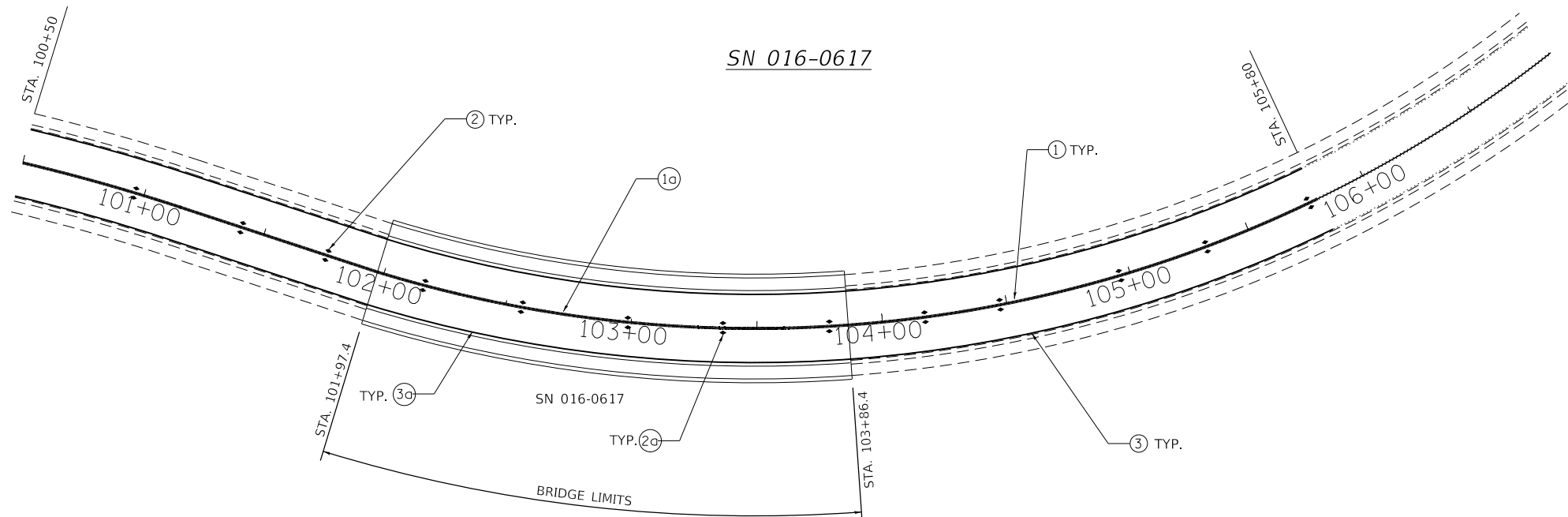
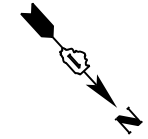
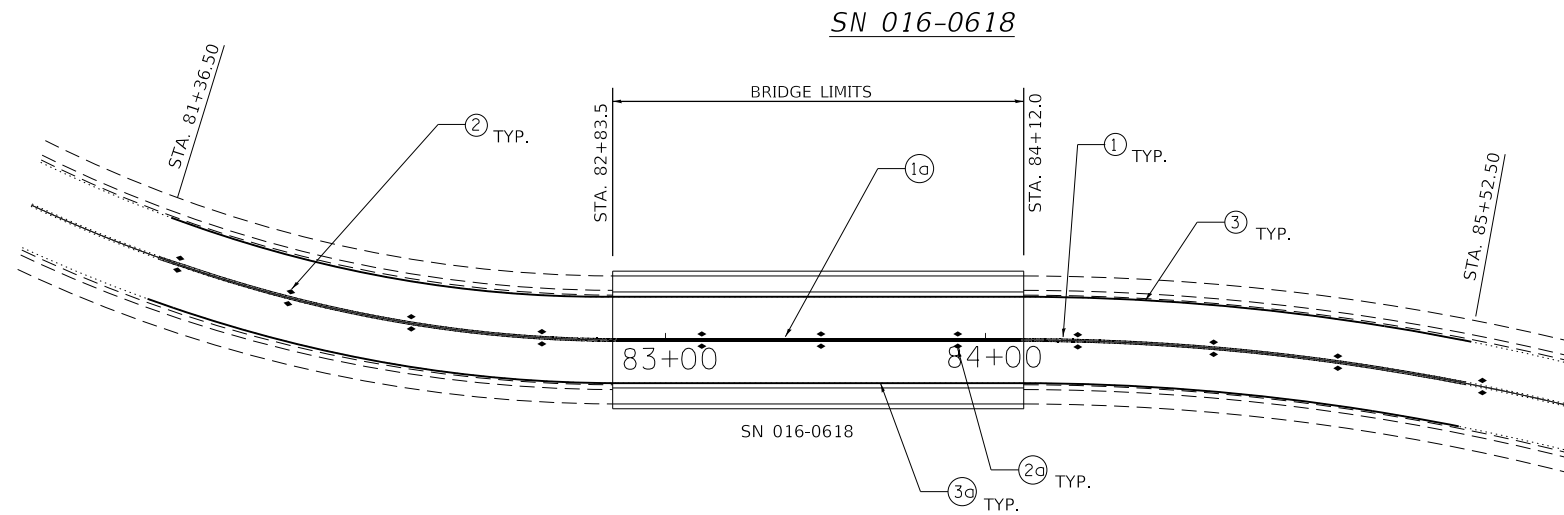
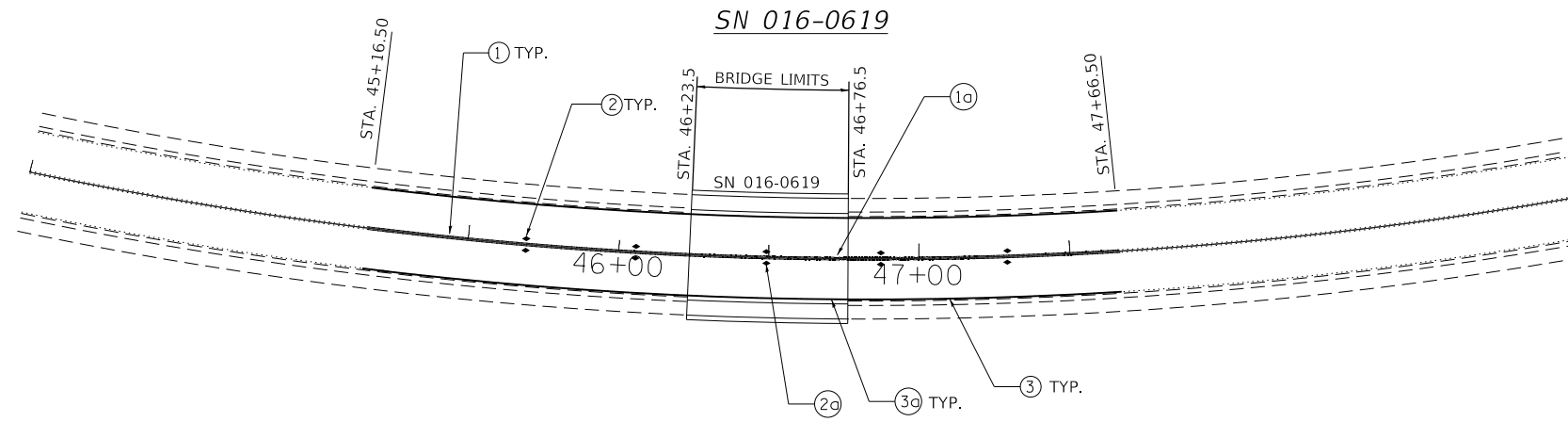


USER NAME = tpaolcchi	DESIGNED - TP	REVISED -
	DRAWN - MC, JKR	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - TP	REVISED -
PLOT DATE = 3/12/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED PAVEMENT MARKING</b>			
SCALE: 1"=50'	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R80	



**LEGEND:**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) @ 11" C-C
- ② RAISED REFLECTIVE PAVEMENT MARKER @ 40' C-C
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
- 1a POLYUREA PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) @ 11" C-C
- 2a RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) @ 40' C-C
- 3a POLYUREA PAVEMENT MARKING - LINE 4" (WHITE)

**NOTES:**

1. REFER TO DISTRICT ONE DETAILS TC-11 AND TC-13 FOR ADDITIONAL INFORMATION.
2. ALL PAVEMENT MARKINGS ON THE BRIDGE DECK WILL BE POLYUREA.
3. ALL PAVEMENT MARKINGS ON THE BRIDGE APPROACHES WILL BE THERMOPLASTIC.

MODEL: D:\default... FILE NAME: ...



USER NAME = tpaolcchi	DESIGNED - TP	REVISED -
DRAWN - MC, JKR	REVISIONS -	
PLOT SCALE = 60.0000' / in.	CHECKED - TP	REVISED -
PLOT DATE = 3/12/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED  
PAVEMENT MARKINGS**

SCALE: 1"=30' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	21
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				

**Existing Structure:**  
 Existing Structure No. 016-0616 was built in 1926 as RTE 42 Section 112X-B. In 1985, under FAU 1270 Section 112BR-1, the superstructure was replaced. Existing Structure is a three span reinforced concrete slab on steel beams between closed abutments, 115'-11" bk. to bk. abutments, 48'-0" out to out deck.

Salvage: None

**SCOPE OF WORK**

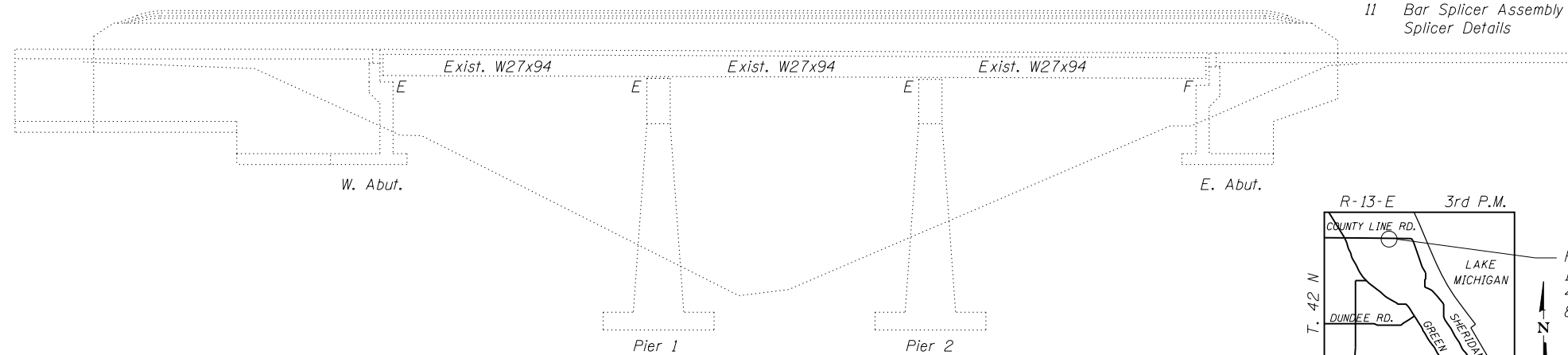
1. Remove and replace bearings at west abutment.
2. Remove and replace expansion joint at west abutment.
3. Scarify 3/4" deck surface and Place new 2 1/2" overlay on deck.
4. Remove and replace diaphragms at west abutment steel repair.
5. Apply Protective Coat to inside and top faces of sidewalk and parapet.
6. Polymer Concrete Nosing (East Abutment).

**INDEX OF SHEETS**

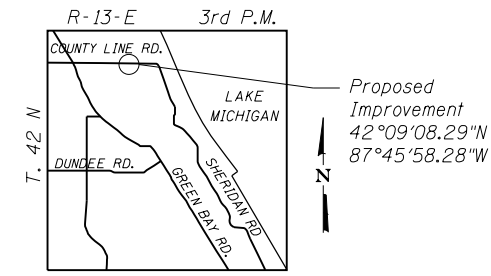
- 1 General Plan and Elevation
- 2 Stage Construction/Typical Details
- 3 Expansion Joint Removal
- 4 Expansion Joint Repair
- 5-7 Preformed Joint Strip Seal
- 8 Framing Plan & Diaphragm Details
- 8A Framing Plan & Diaphragm Details
- 9 Bearing Details
- 10 Pier 2 Repairs
- 11 Bar Splicer Assembly and Mechanical Splicer Details

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Bituminous Materials (Tack Coat)	Pound	160
Hot-Mix Asphalt Surface Removal -Butt Joint	Sq. Yd.	240
Hot-Mix Asphalt Surface Course, Mix "D", N70	Ton	40
Clean and Reseal Relief Joints	Foot	72
Anchor Bolts 1"	Each	14
Concrete Removal	Cu. Yd.	7.5
Concrete Superstructure	Cu. Yd.	8.0
Bridge Deck Grooving	Sq. Yd.	436
Protective Coat	Sq. Yd.	690
Reinforcement Bars, Epoxy Coated	Pound	900
Bar Splicers	Each	14
Preformed Joint Strip Seal	Foot	46
Furnishing and Erecting Structural Steel	Pound	2830
Structural Steel Repair	Pound	1470
Structural Steel Removal	Pound	1780
Elastomeric Bearing Assembly, Type I	Each	7
Jack and Remove Existing Bearings	Each	7
Bridge Deck Latex Concrete Overlay 2 1/2"	Sq. Yd.	451
Bridge Deck Scarification 3/4"	Sq. Yd.	451
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	64
Polymer Concrete	Cu. Ft.	1.6



**ELEVATION**



**LOCATION SKETCH**

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All structural steel shall be AASHTO M 270 Grade 36 unless otherwise noted.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All new structural steel and bearing assemblies shall be hot dip galvanized, see special provisions for "Hot Dip Galvanizing for Structural Steel".

Fasteners shall be High Strength Bolts 7/8" φ, holes 1 5/16" φ, unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

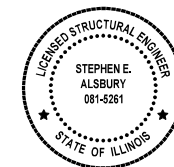
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

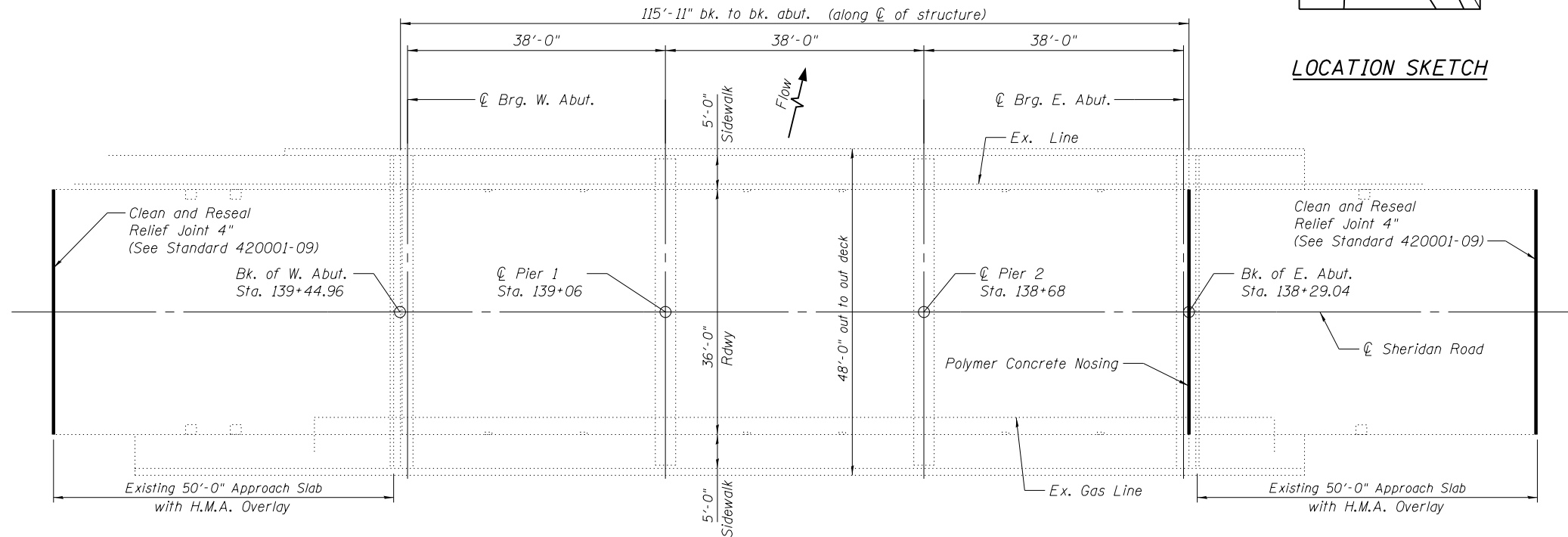
Synthetic fibers shall be added to the bridge deck latex concrete overlay, see Special Provisions.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

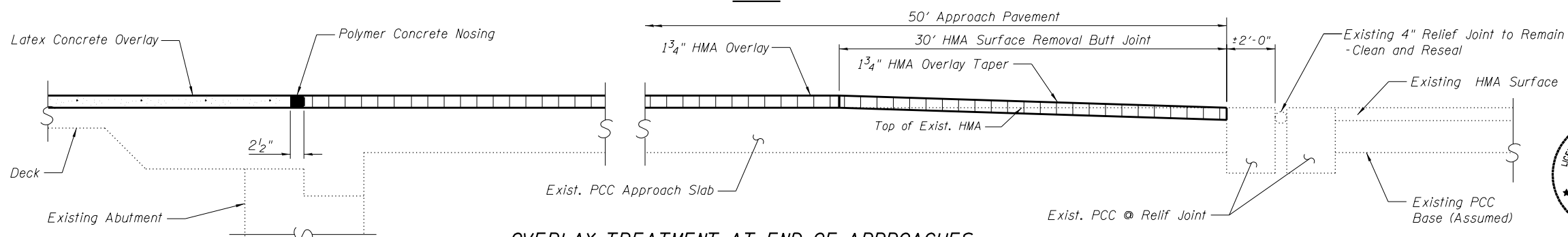
I hereby certify that these plans were prepared by me or under my direct personal supervision and that I am a duly licensed structural engineer under the laws of the State of Illinois.



*Stephen E. Alsbury* DATE: 05-07-2019  
 Stephen E. Alsbury S.E. #5261  
 LICENSE EXP. 11-30-2020



**PLAN**



**OVERLAY TREATMENT AT END OF APPROACHES**

(On Approaches incl. gutter) (East Abutment shown)



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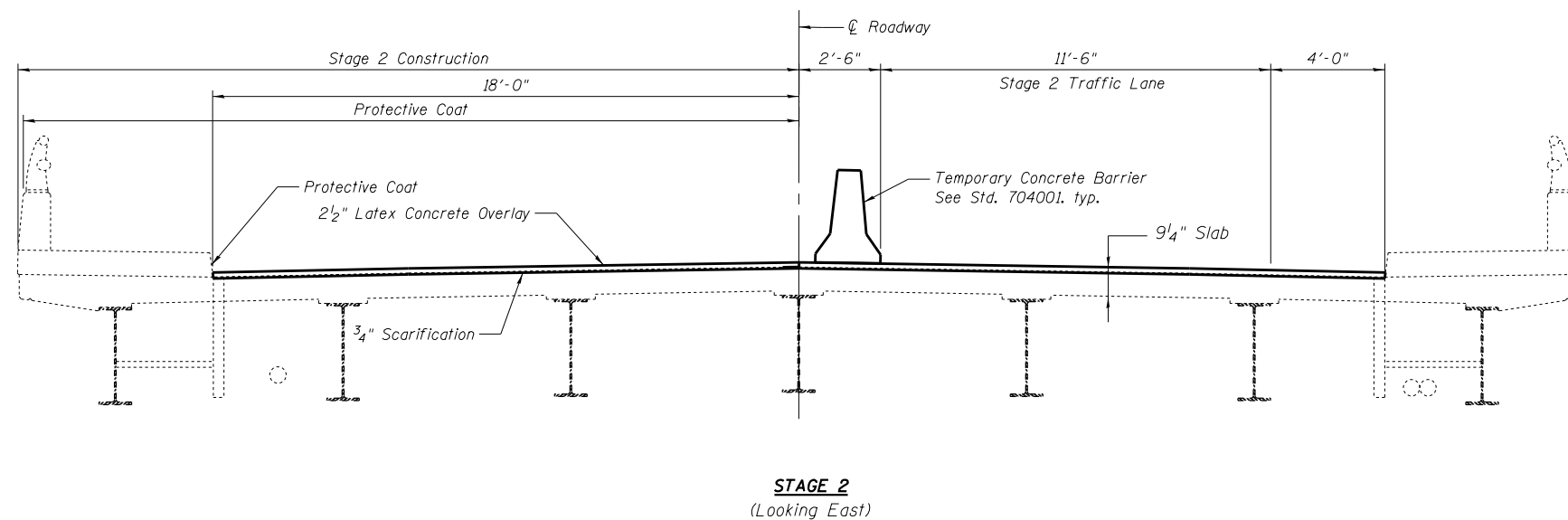
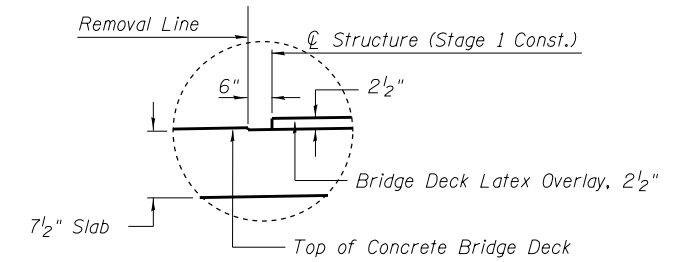
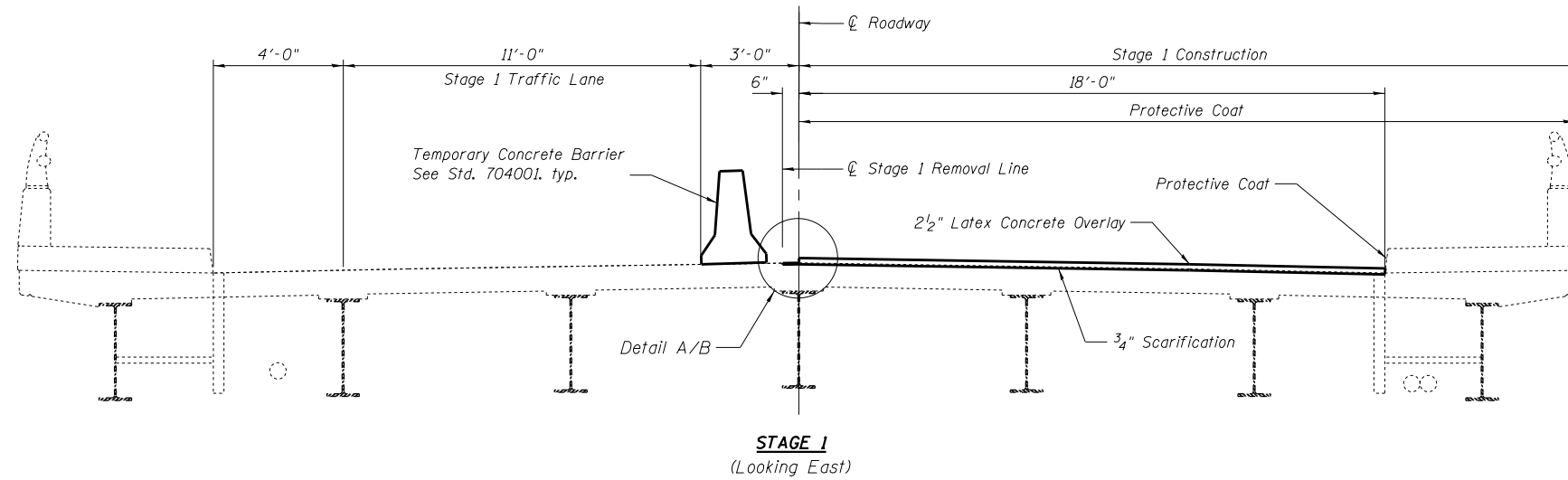
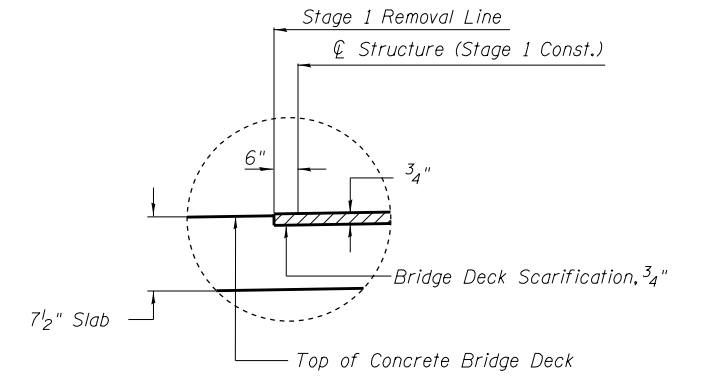
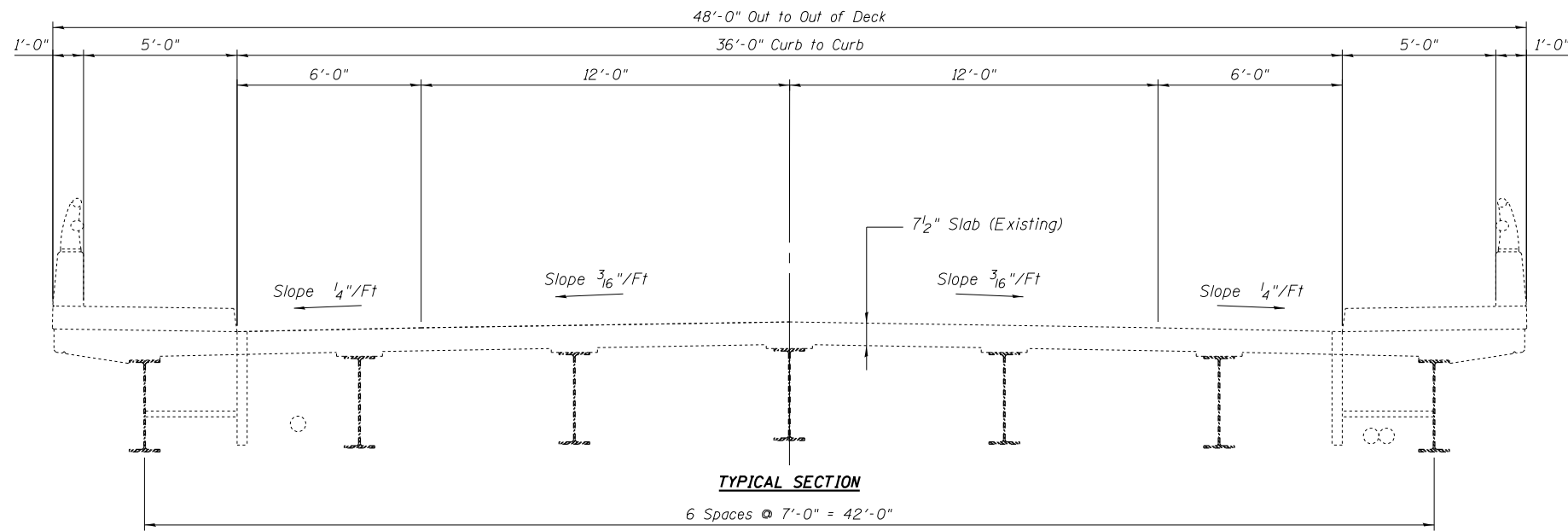
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DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 016-0616

SHEET NO. 1 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	22
STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**NOTE:**  
 Temporary Concrete Barrier is paid for as Roadway Item. See Standard 704001-08

**PROPOSED CONSTRUCTION STAGING**



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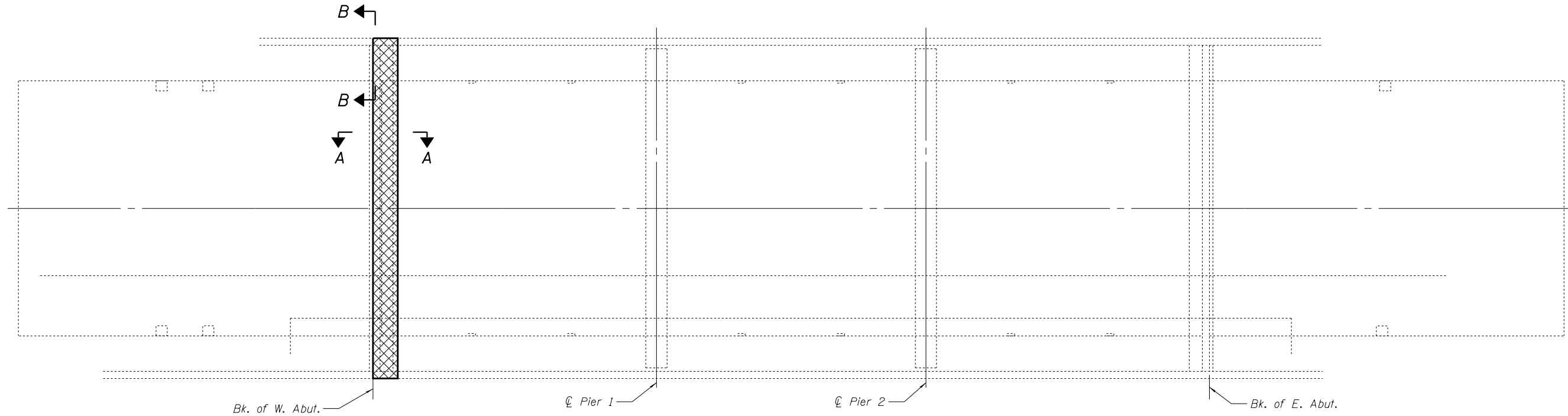
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DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

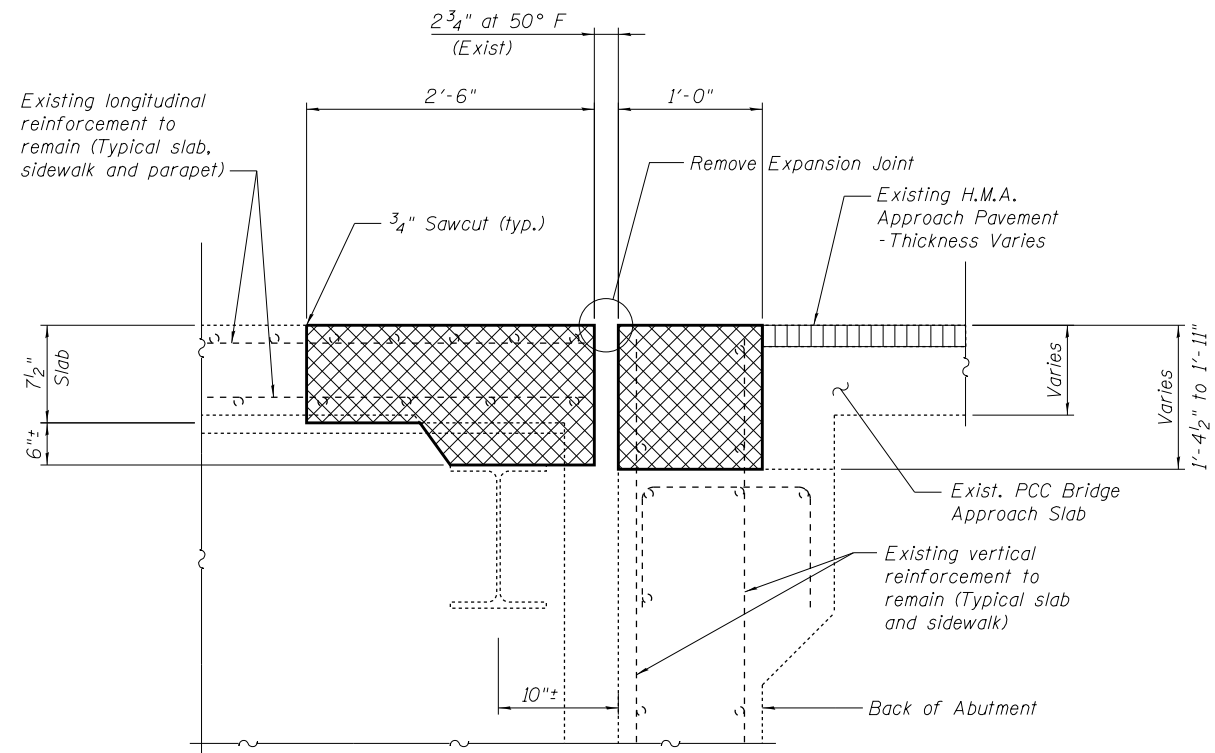
**STAGE CONSTRUCTION / TYPICAL DETAILS**  
**STRUCTURE NO. 016-0616**

SHEET NO. 2 OF 11 SHEETS

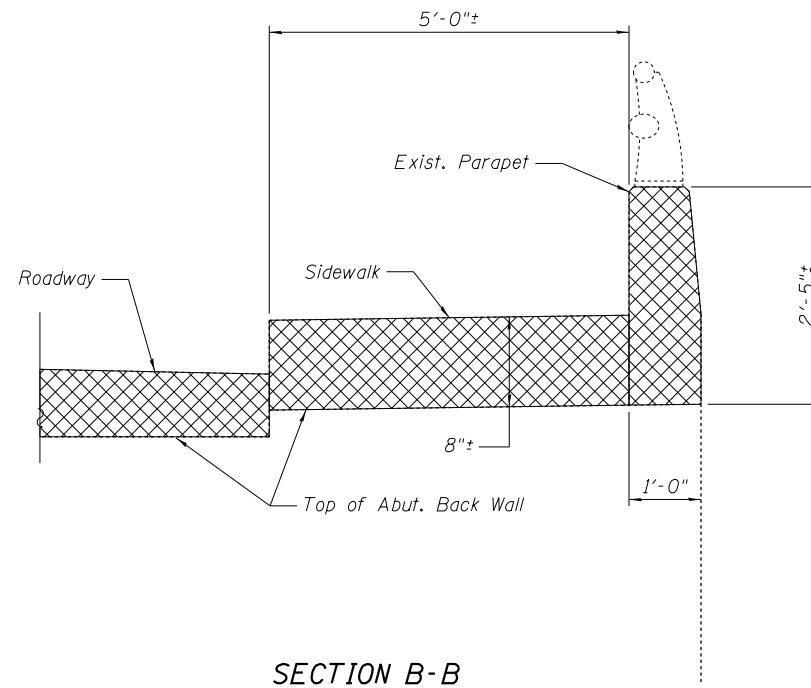
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	23
STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**PLAN**



**SECTION A-A**

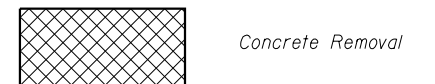


**SECTION B-B**  
(at abutment)

**NOTES**

- Removal of the existing expansion joints will not be paid for separately but shall be included in the cost for Concrete Removal.
- Sidewalk and parapet shall be removed and replaced within the limits of hatched areas shown. All longitudinal sidewalk reinforcement shall remain in place.
- The Contractor shall use extreme care during concrete removal so as not to damage the Steel Wide Flange Beams or the utility conduits between beams 1 and 2 and 6 and 7. Any damage shall be repaired at the contractor's expense.

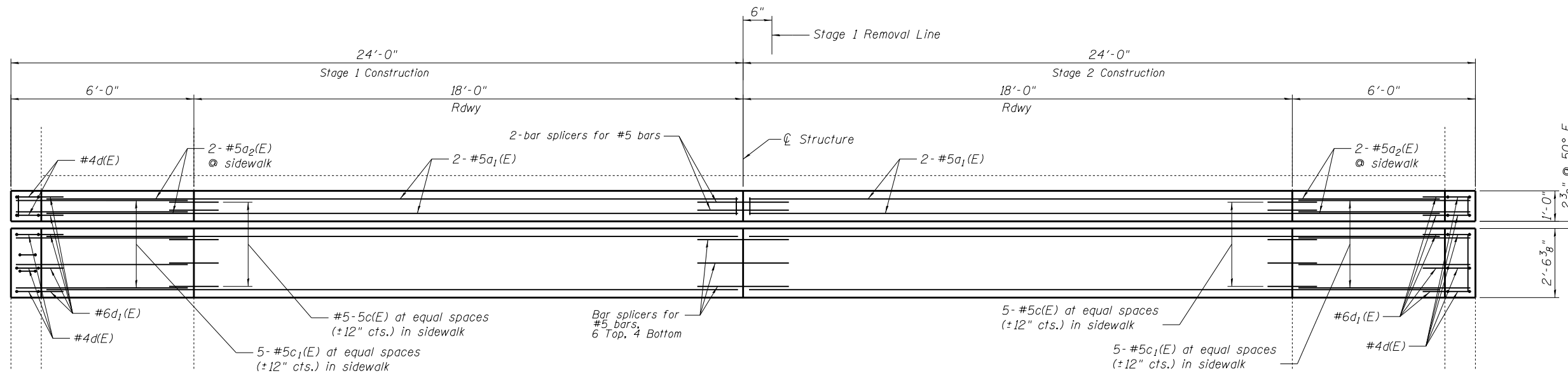
**LEGEND**



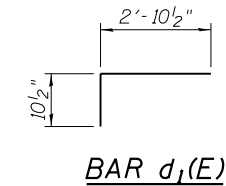
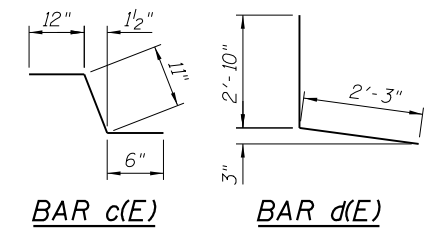
**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	7.5



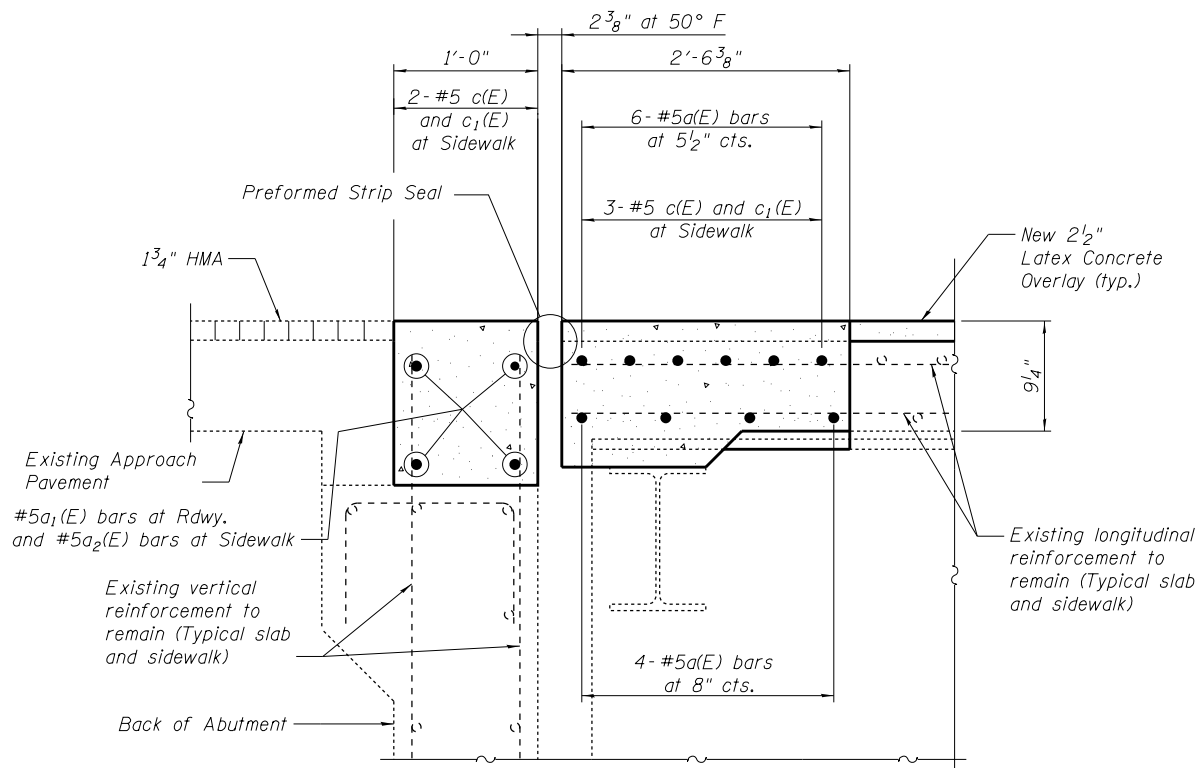


**EXPANSION JOINT PLAN**  
**WEST ABUTMENT**  
(Looking West)

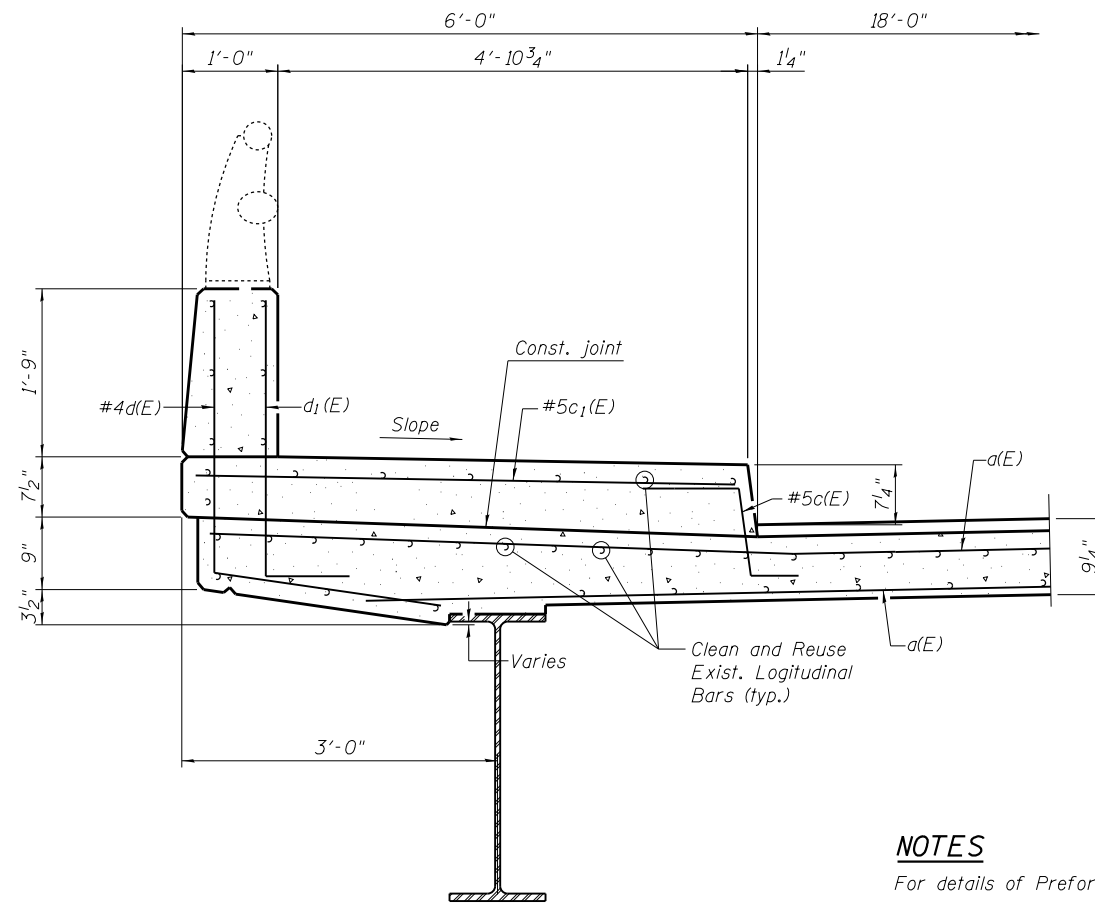


**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	20	#5	23'-8"	—
a1(E)	8	#5	18'-3"	—
a2(E)	8	#5	9'-0"	—
c(E)	10	#5	2'-5"	U
c1(E)	10	#5	5'-8"	—
d(E)	10	#4	5'-1"	J
d1(E)	10	#6	3'-9"	—
Concrete Removal			Cu. Yd.	7.5
Concrete Superstructure			Cu. Yd.	8.0
Reinforcement Bars, Epoxy Coated			Pound	900
Bar Splicers			Each	14



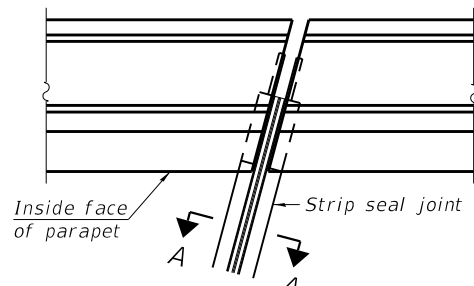
**TYPICAL SECTION AT WEST ABUTMENT**  
(Looking North)



**TYPICAL SIDEWALK SECTION**  
(On Structure)

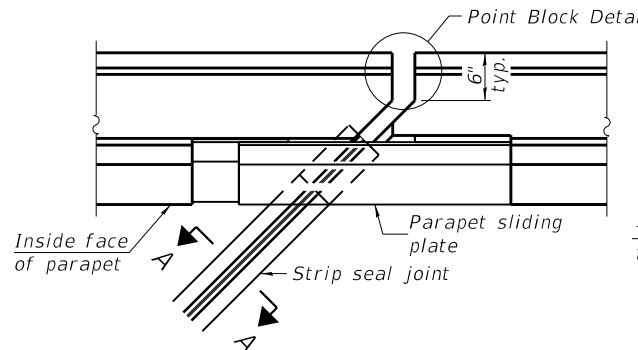
**NOTES**

For details of Preformed Joint Strip Seal Expansion Joints, see Sheet No. 5, 6 and 7 of 11.  
See Sheet No. 11 of 11 for Bar Splicers.

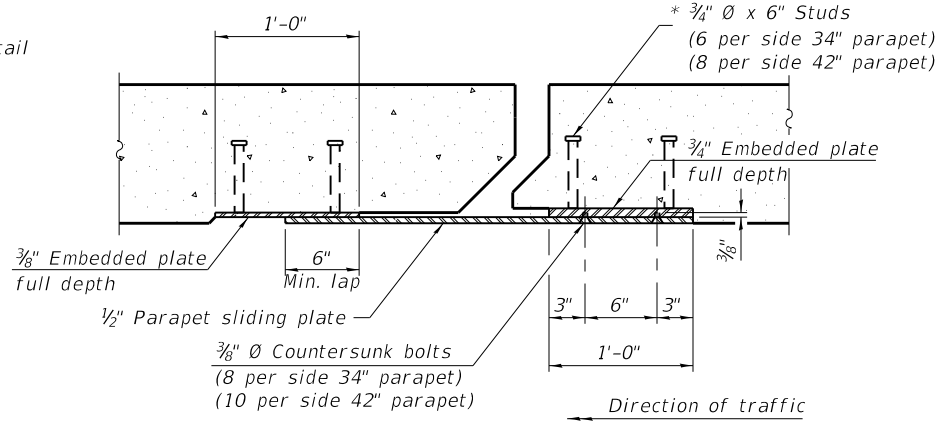


FOR SKEWS  $\leq 30^\circ$

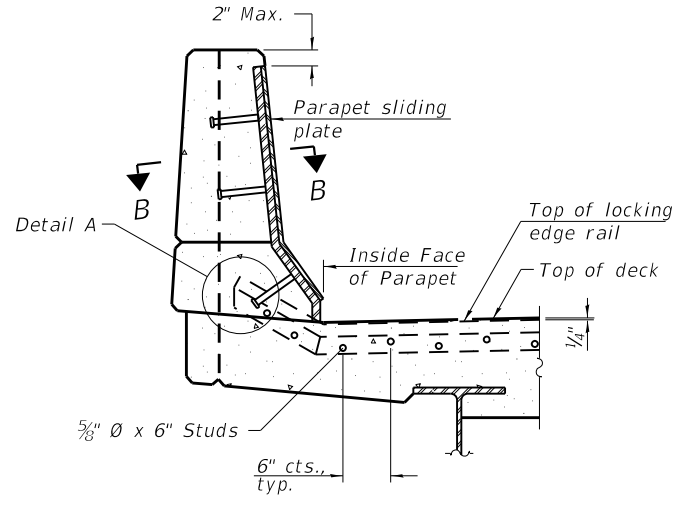
PLAN AT PARAPET



FOR SKEWS  $> 30^\circ$

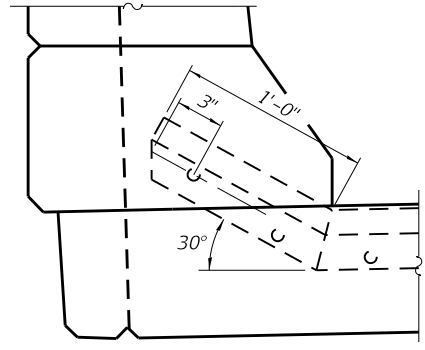


SECTION B-B

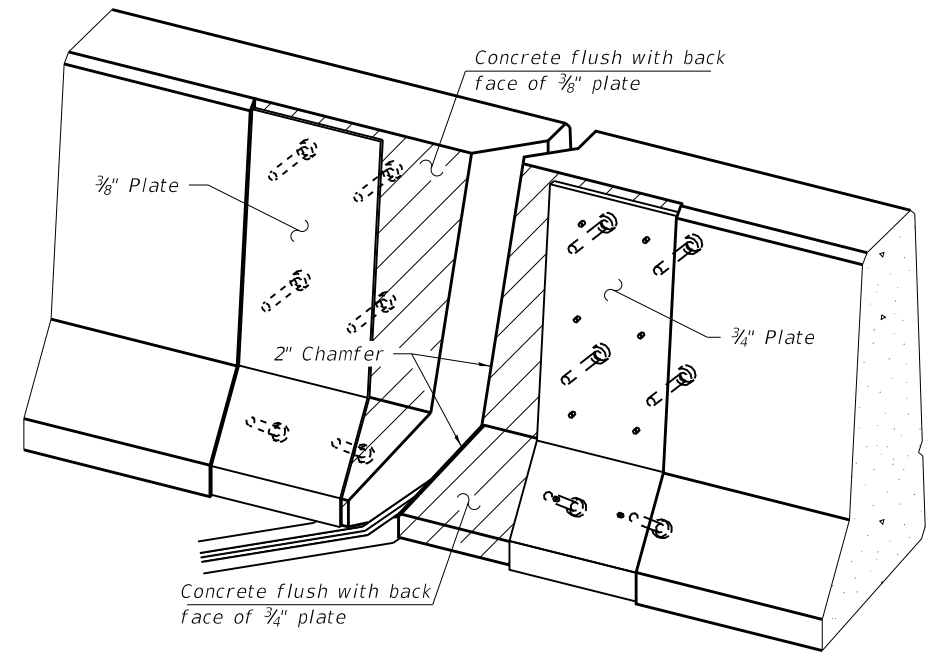


ELEVATION AT PARAPET

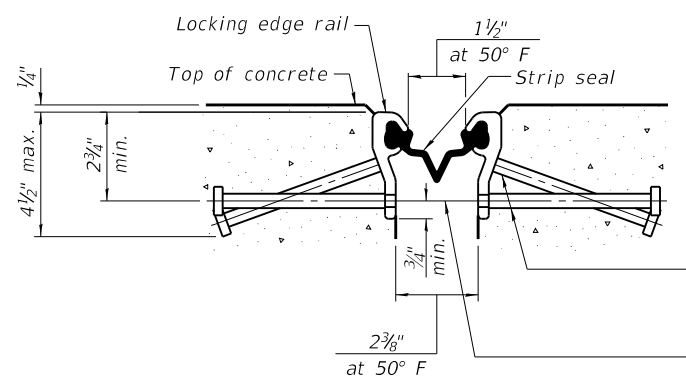
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



DETAIL A

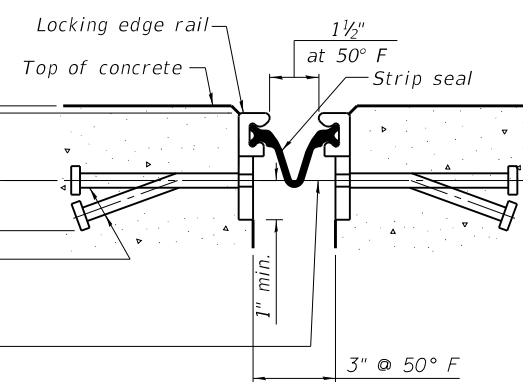


TRIMETRIC VIEW  
(Showing embedded plates only)

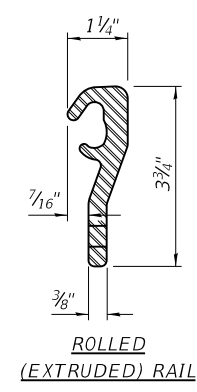


SHOWING ROLLED RAIL JOINT

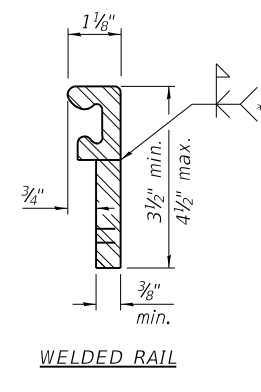
\* 5/8"  $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 3/8"  $\phi$  threaded rods in 7/16"  $\phi$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



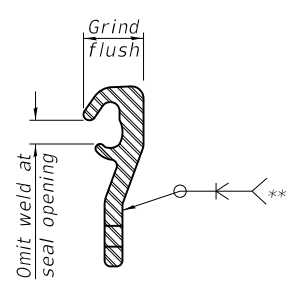
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	46

EJ-SS-S

8-11-17

(Sheet 1 of 3)

**ABNA**  
 DESIGN FIRM REG. 184.002117  
 9901 S. Western Ave.  
 Chicago, IL 60643  
 Ph. 773-881-4788  
 F: 773.239.3728

DESIGNED SEA	REVISED -
CHECKED ME	REVISED -
DRAWN SCS	REVISED -
CHECKED SEA	REVISED -

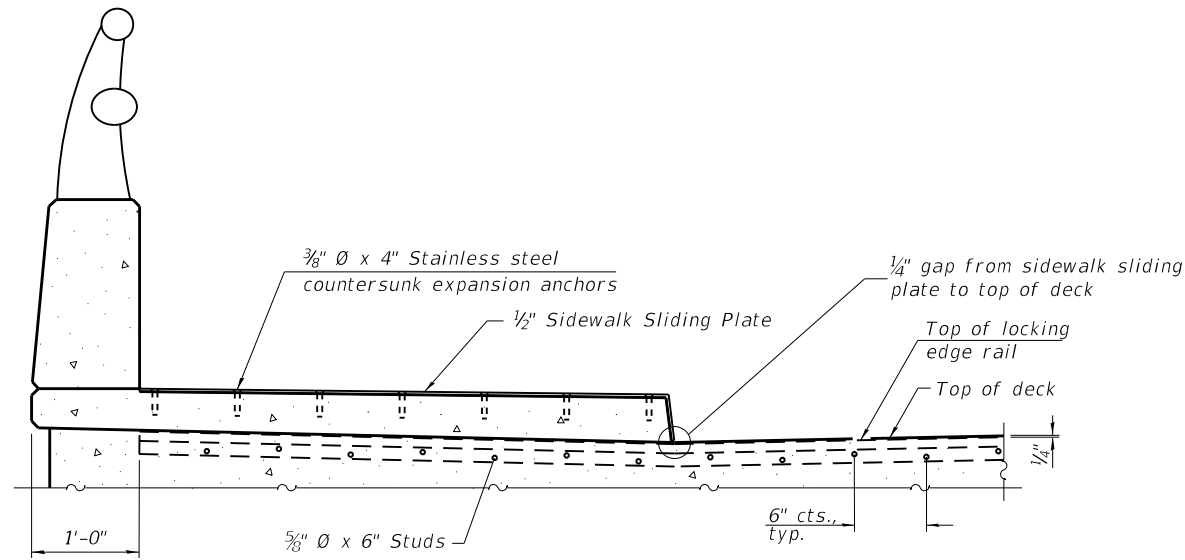
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK  
 STRUCTURE NO. 016-0616

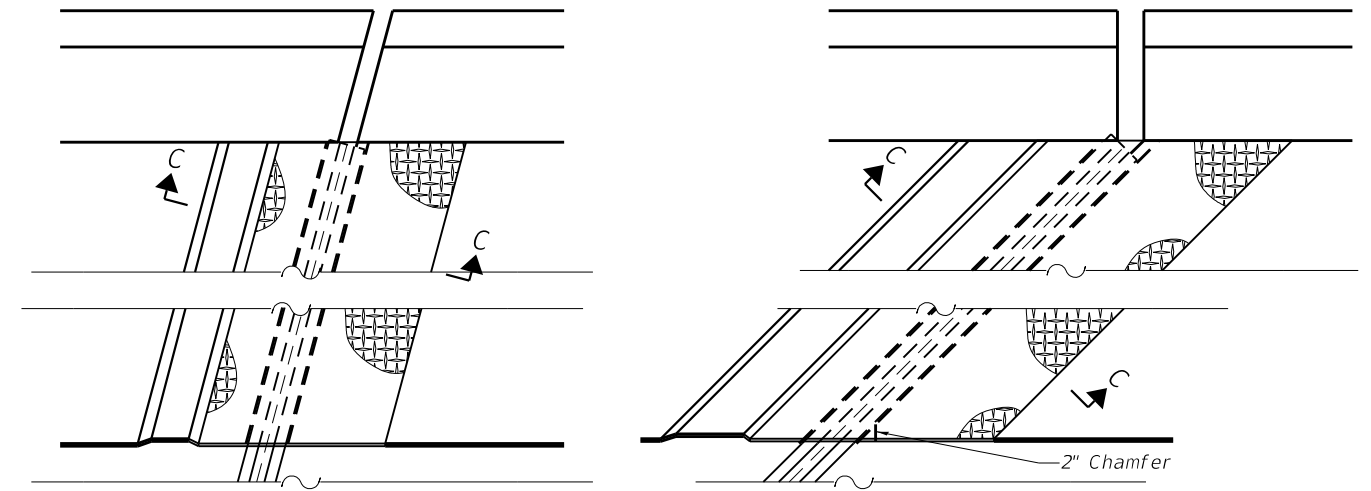
SHEET NO. 5 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	26
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

3/15/2019 6:27:29 PM j:\2018\6060\CAD\_Sheets\Exist\_dgn\016-0616-06 Strip Seal.dgn



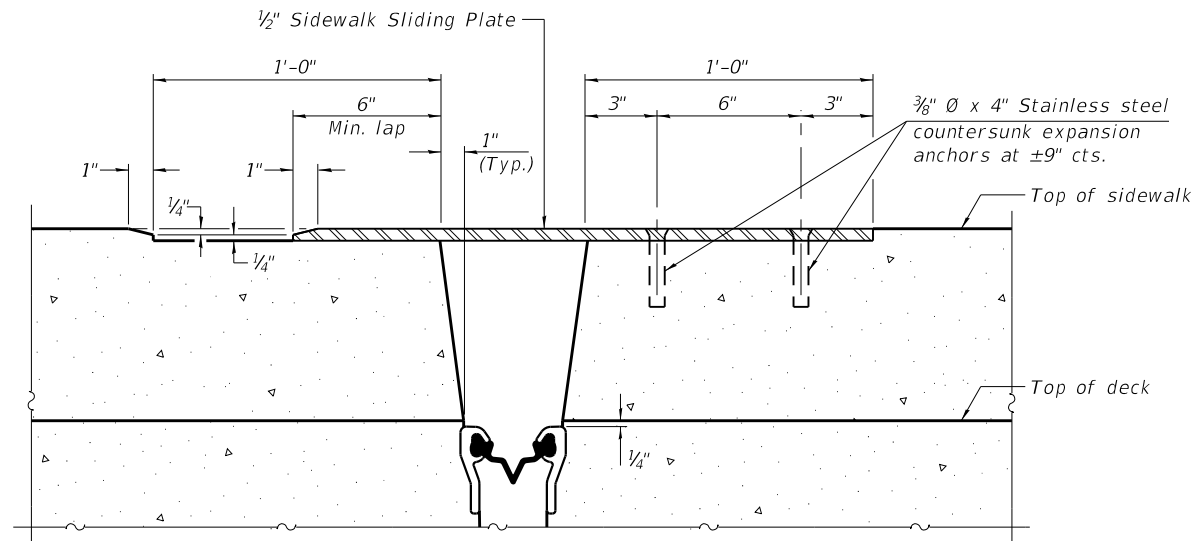
**ELEVATION AT RAISED SIDEWALK**



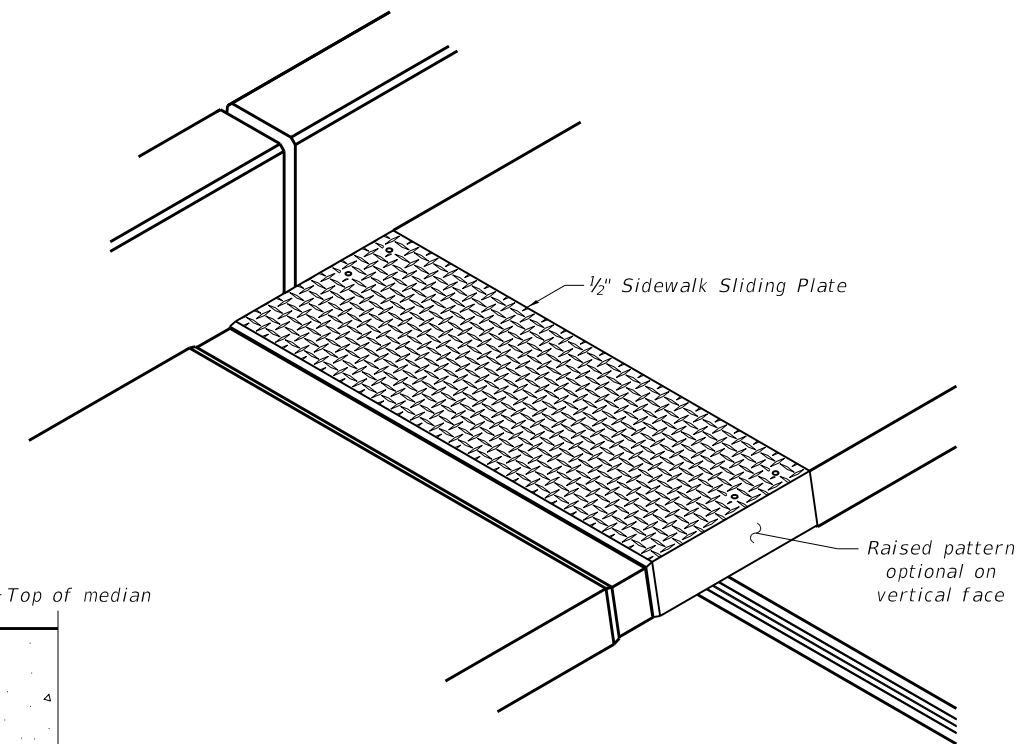
(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

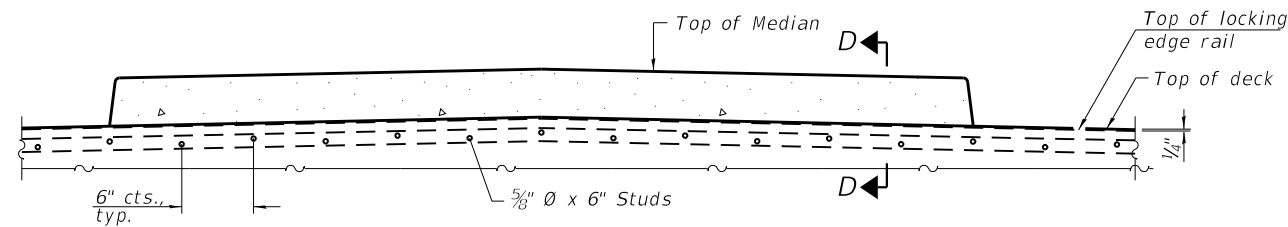
**PLAN AT RAISED SIDEWALK**



**SECTION C-C**

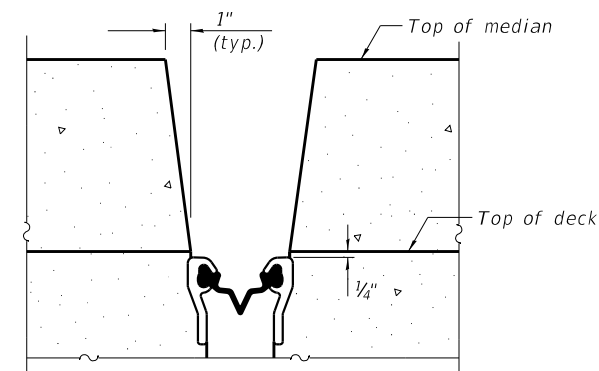


**TRIMETRIC VIEW**



**ELEVATION AT MEDIAN**

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



**SECTION D-D**  
(at Rt. L's)

EJ-SS-S

8-11-17

(Sheet 2 of 3)

**ABNA**  
 DESIGN FIRM REG. 184.002117

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CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

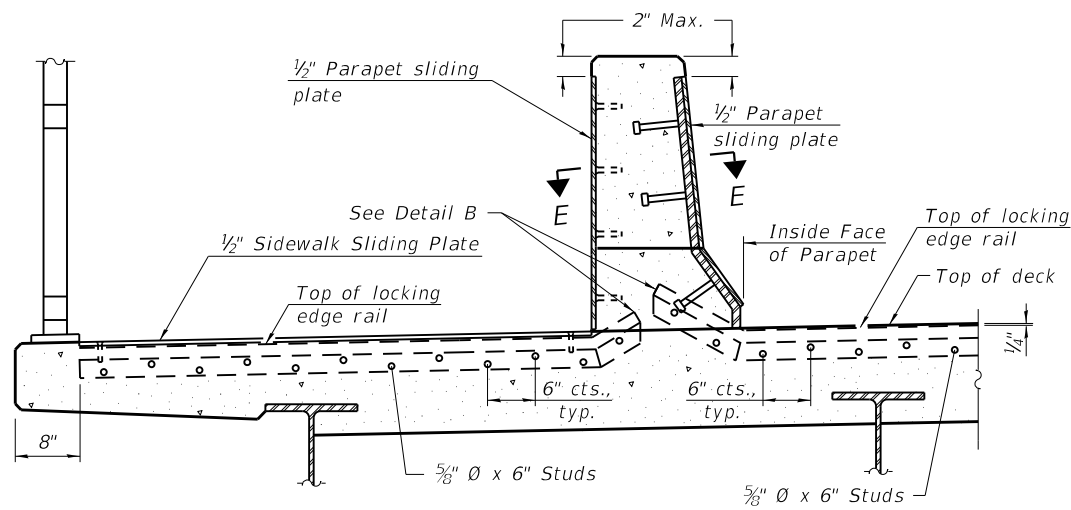
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK**  
**STRUCTURE NO. 016-0616**

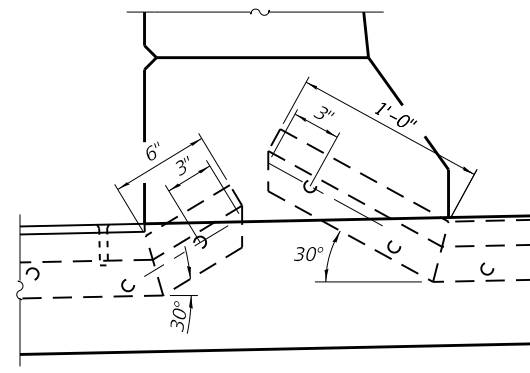
SHEET NO. 6 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	27
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

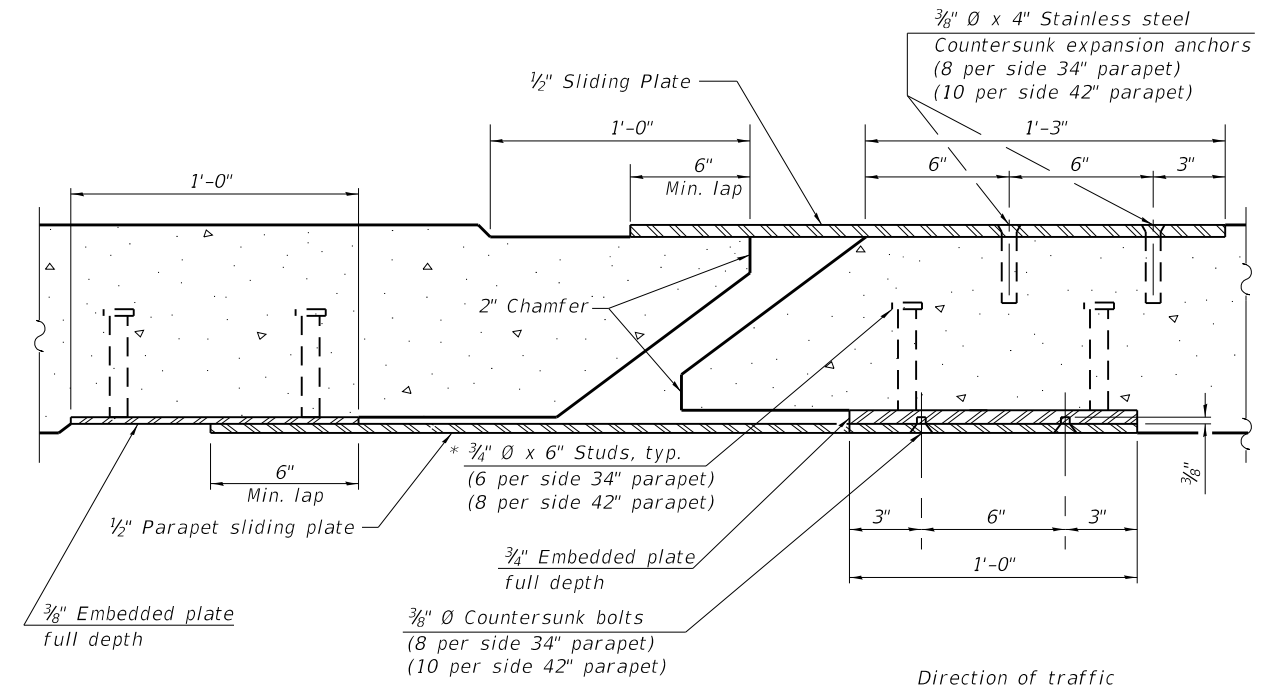
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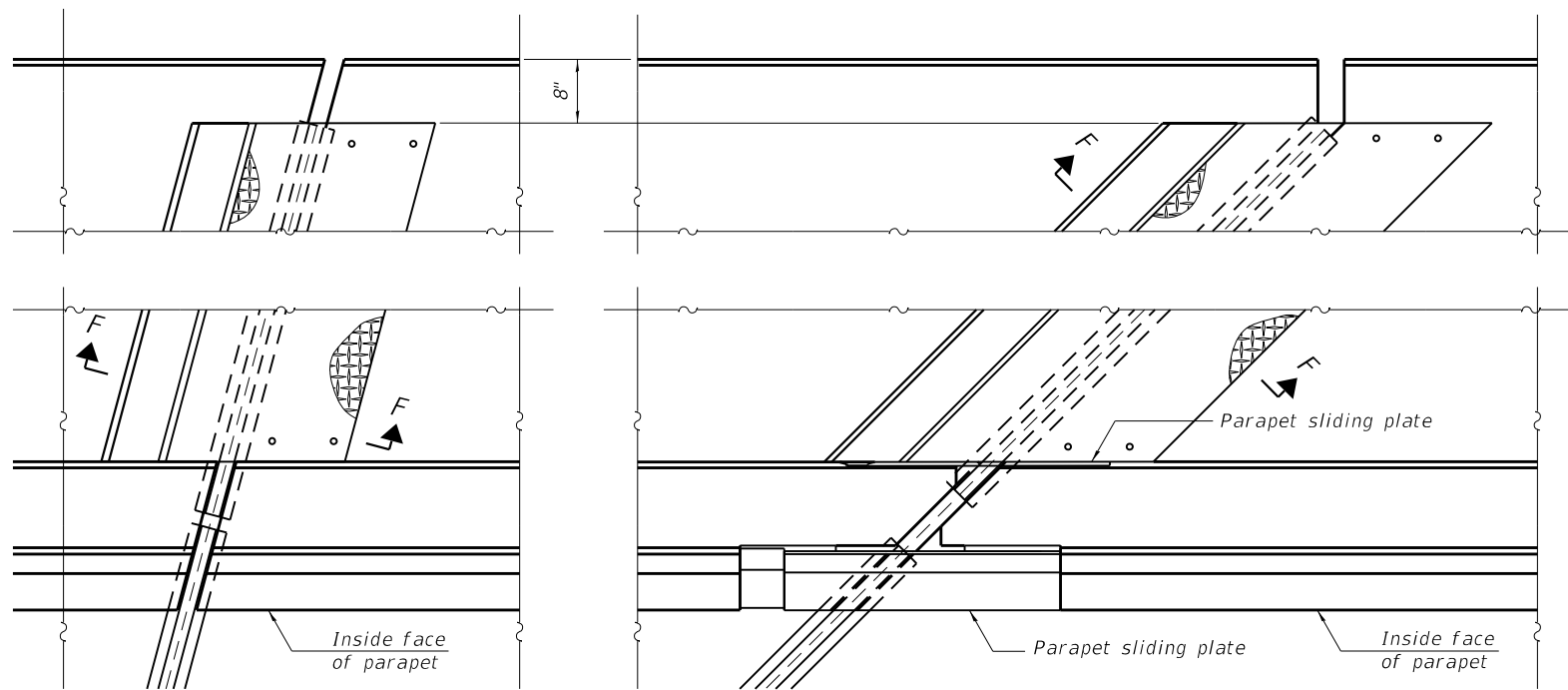
**ELEVATION AT DECK LEVEL SIDEWALK**  
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL B**



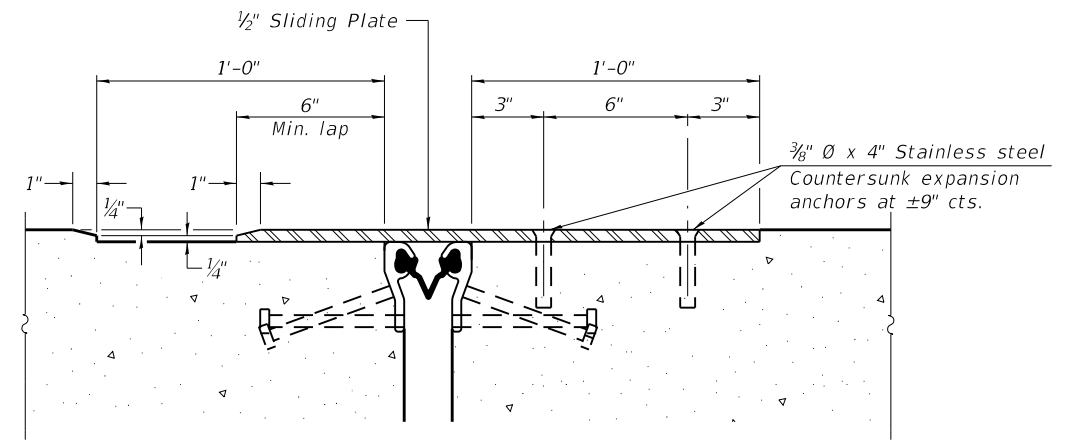
**SECTION E-E**



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

EJ-SS-S

8-11-17

(Sheet 3 of 3)



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DESIGNED SEA  
 CHECKED ME  
 DRAWN SCS  
 CHECKED SEA

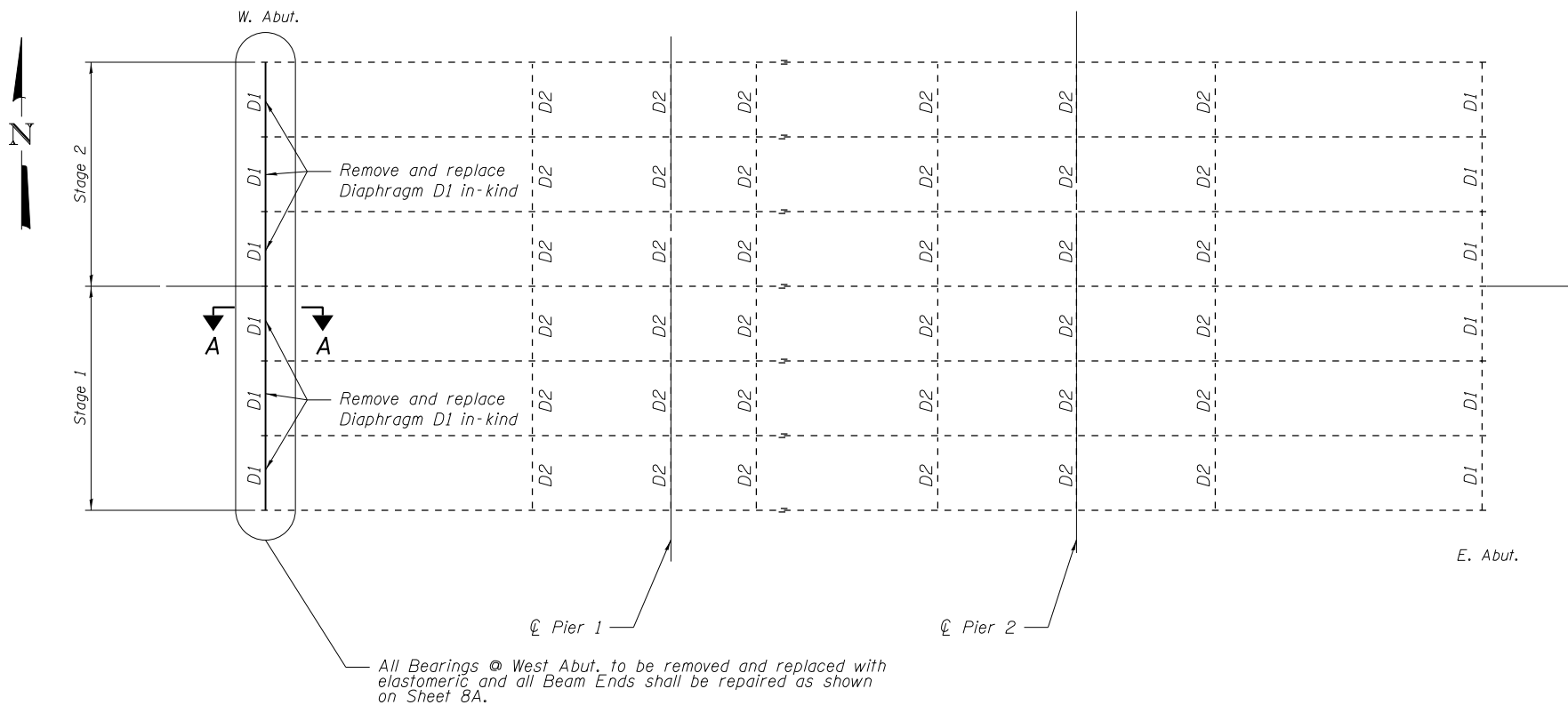
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

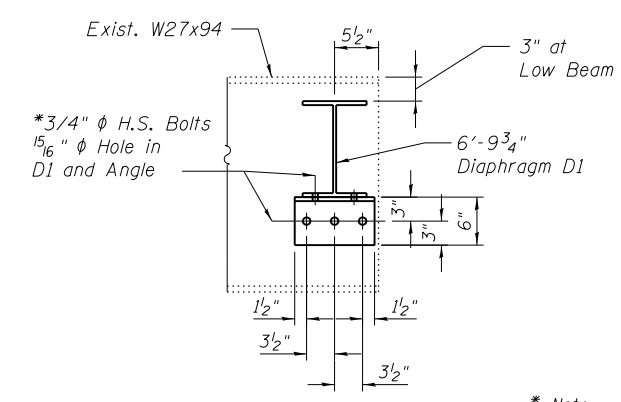
**PREFORMED JOINT STRIP SEAL - SIDEWALK**  
**STRUCTURE NO. 016-0616**

SHEET NO. 7 OF 11 SHEETS

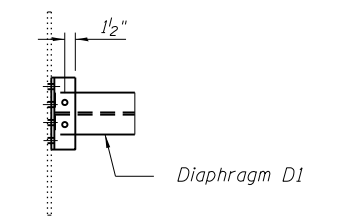
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	28
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



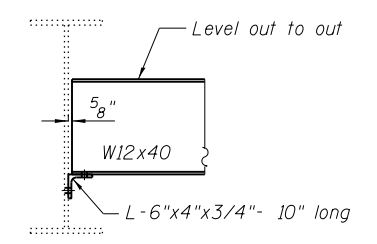
**FRAMING PLAN**



**SECTION A-A**



**PLAN**



**ELEVATION**

\* Note:  
 Location of bolt holes maybe adjusted so that angle on opposite side share bolts.

**INTERIOR DIAPHRAGM D1**

Existing & Proposed  
 6 Required  
 Note:  
 Remove existing Angles using air-arc method and grind smooth all weld material remaining on web. Cost included with Structural Steel Removal. Care must be taken not to damage beam webs.  
 Two Hardened Washers shall be required over 1<sup>5</sup>/<sub>16</sub>"  $\phi$  holes in angles and beam.

**BILL OF MATERIAL**

Item	Unit	Total
Structural Steel Repair **	Pound	1470
Furnishing and Erecting Structural Steel	Pound	1860
Structural Steel Removal	Pound	1780

\*\* Beam Web Repairs  
 Cost of diaphragms and new clip angles included with Furnishing and Erecting Structural Steel.

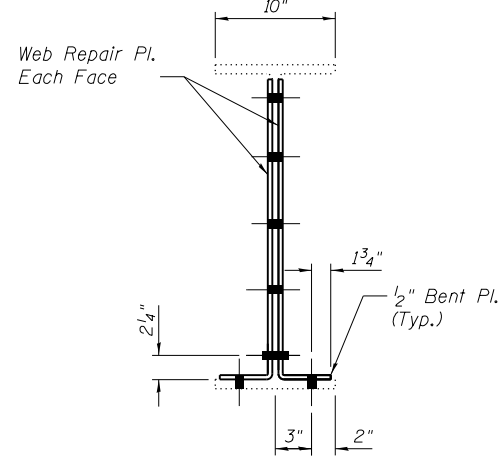
**ABNA**  
 DESIGN FIRM REG. 184.002117  
 9901 S. Western Ave.  
 Chicago, IL 60643  
 Ph. 773-881-4788  
 F: 773.239.3728

DESIGNED	SEA	REVISED	-
CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

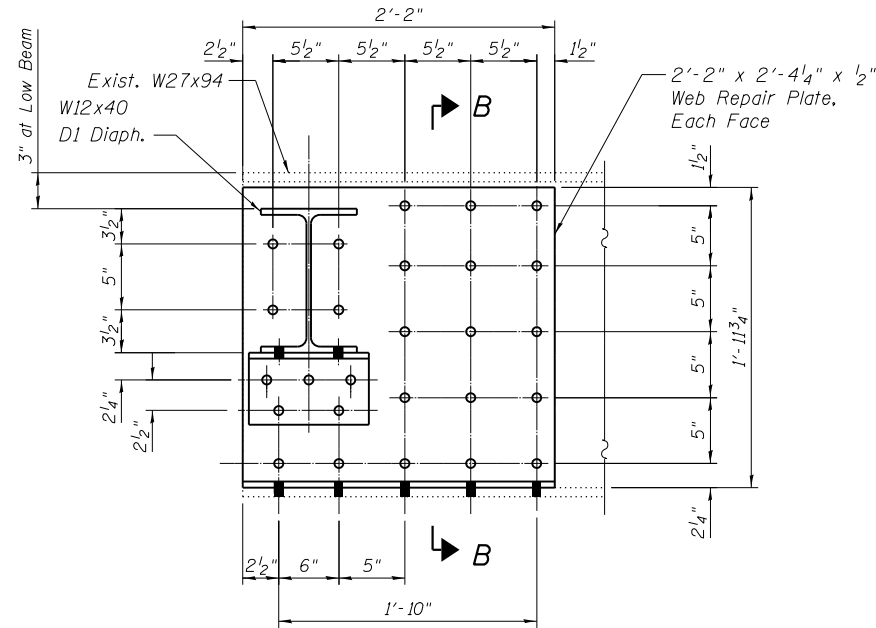
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN & DIAPHRAGM DETAILS**  
**STRUCTURE NO. 016-0616**  
 SHEET NO. 8 OF 11 SHEETS

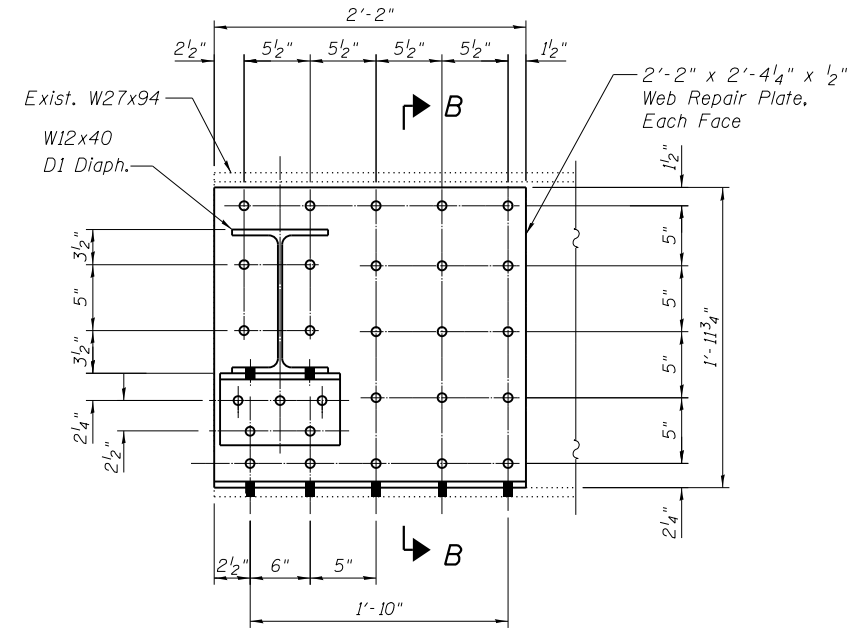
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	29
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



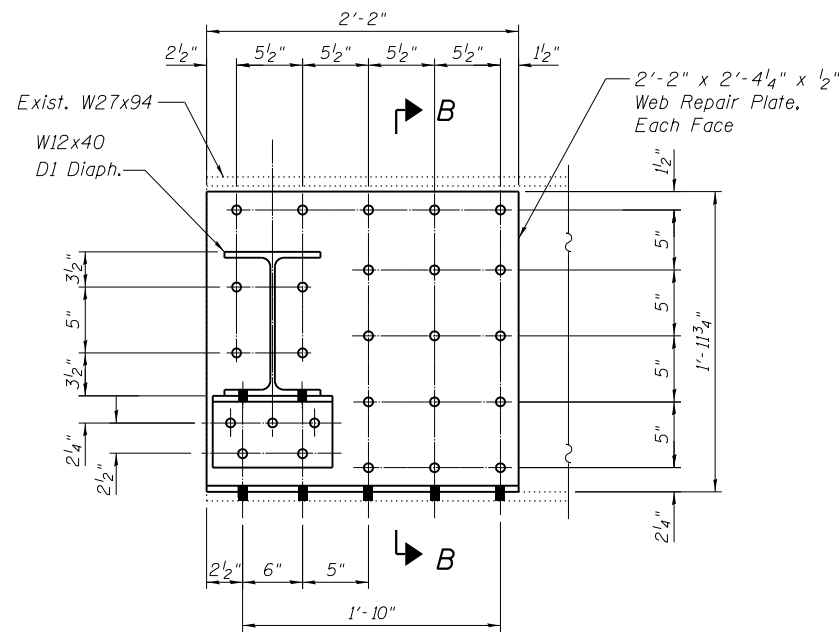
**SECTION B-B**



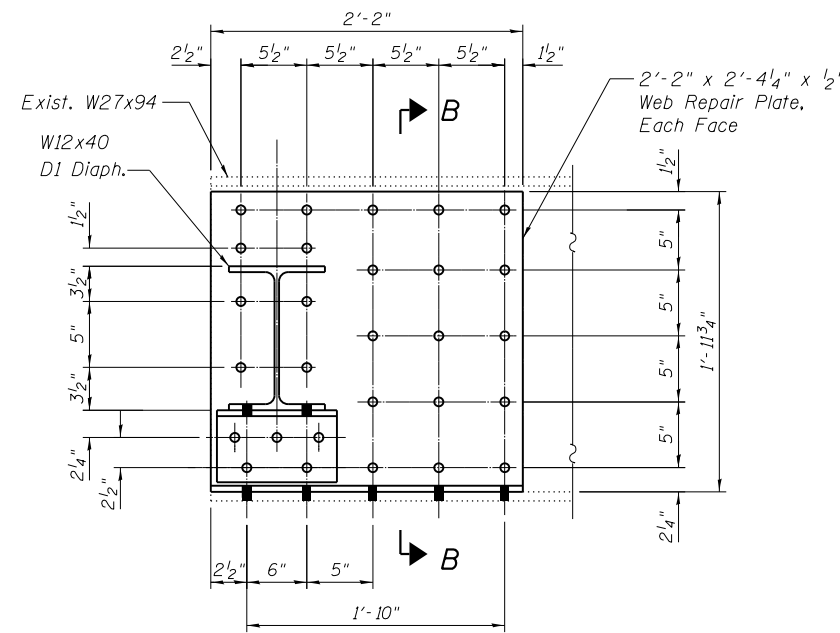
**ELEVATION  
BEAMS 1 & 7**



**ELEVATION  
BEAMS 2 & 6**



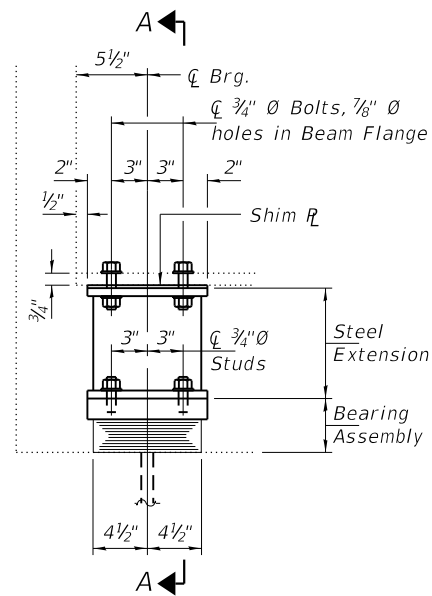
**ELEVATION  
BEAMS 3 & 5**



**ELEVATION  
BEAM 4**

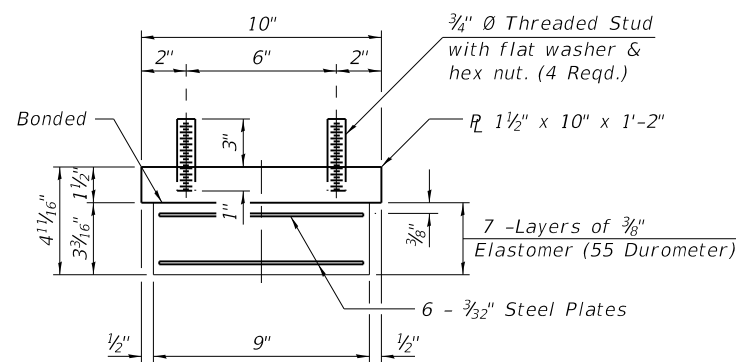
**BEAM WEB REPAIR DETAILS**

Note:  
All web repairs shall be made using  
7/8"  $\phi$  bolts in 15/16"  $\phi$  holes.



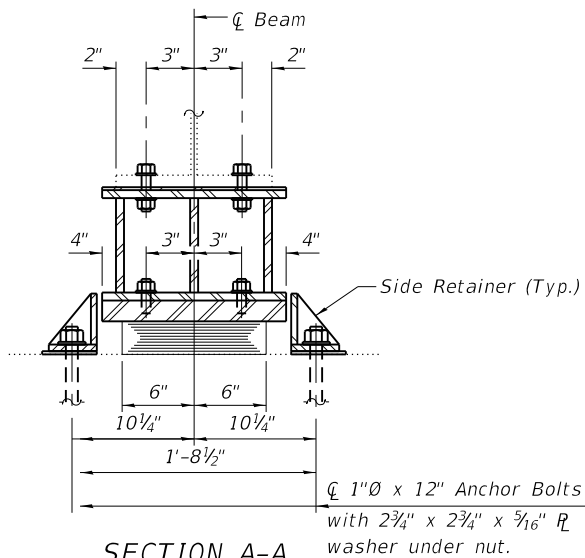
**ELEVATION AT ABUTMENT**

**TYPE I ELASTOMERIC EXP. BRG.**



**BEARING ASSEMBLY**

Note:  
Shim plates shall not be placed under Bearing Assembly.



**SECTION A-A**

1"  $\varnothing$  x 12" Anchor Bolts with 2 3/4" x 2 3/4" x 5/16"  $\varnothing$  washer under nut.

**BEAM REACTIONS**

R <sub>l</sub>	(K)	14.7
R <sub>4</sub>	(K)	36.3
Imp.	(K)	10.9
R (Total)	(K)	61.9

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

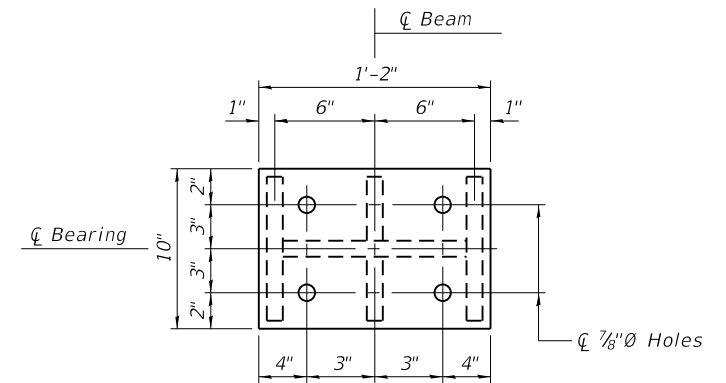
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 30 Tons.

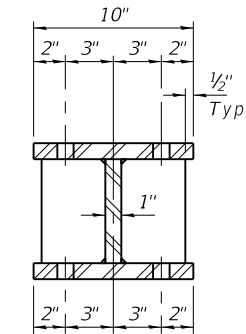
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

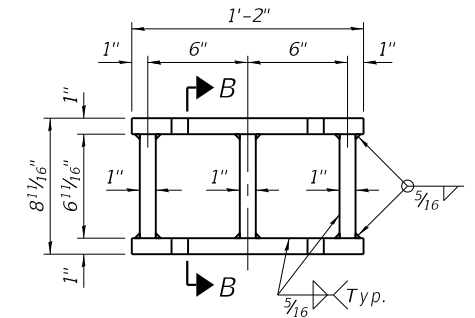
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



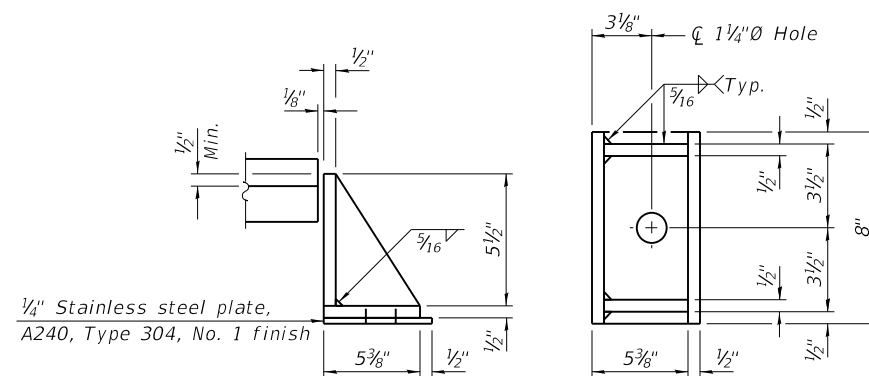
**PLAN TOP AND BOTTOM PLATE**



**SECTION B-B**

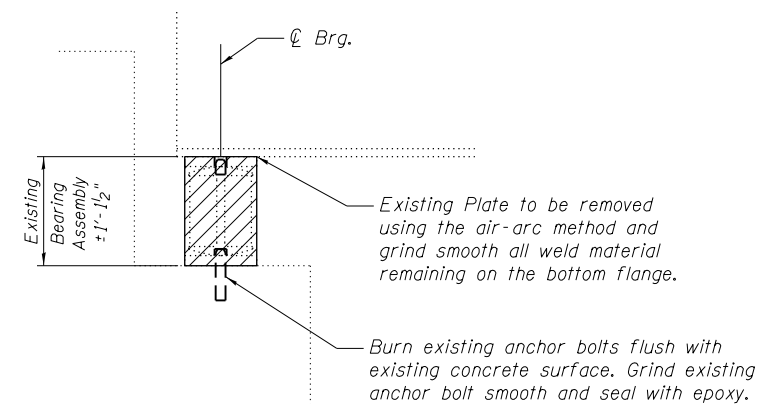


**STEEL EXTENSION DETAIL**



**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**EXISTING BEARING REMOVAL DETAIL**

**LEGEND**

	Removal of existing Bearing Assembly (Cost included with Jack and Remove Existing Bearings)
--	---

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	7
Jack and Remove Existing Bearings	Each	7
Furnishing and Erecting Structural Steel	Pound	970
Anchor Bolts, 1" $\varnothing$	Each	14

TYI/REPS 5-17-2018



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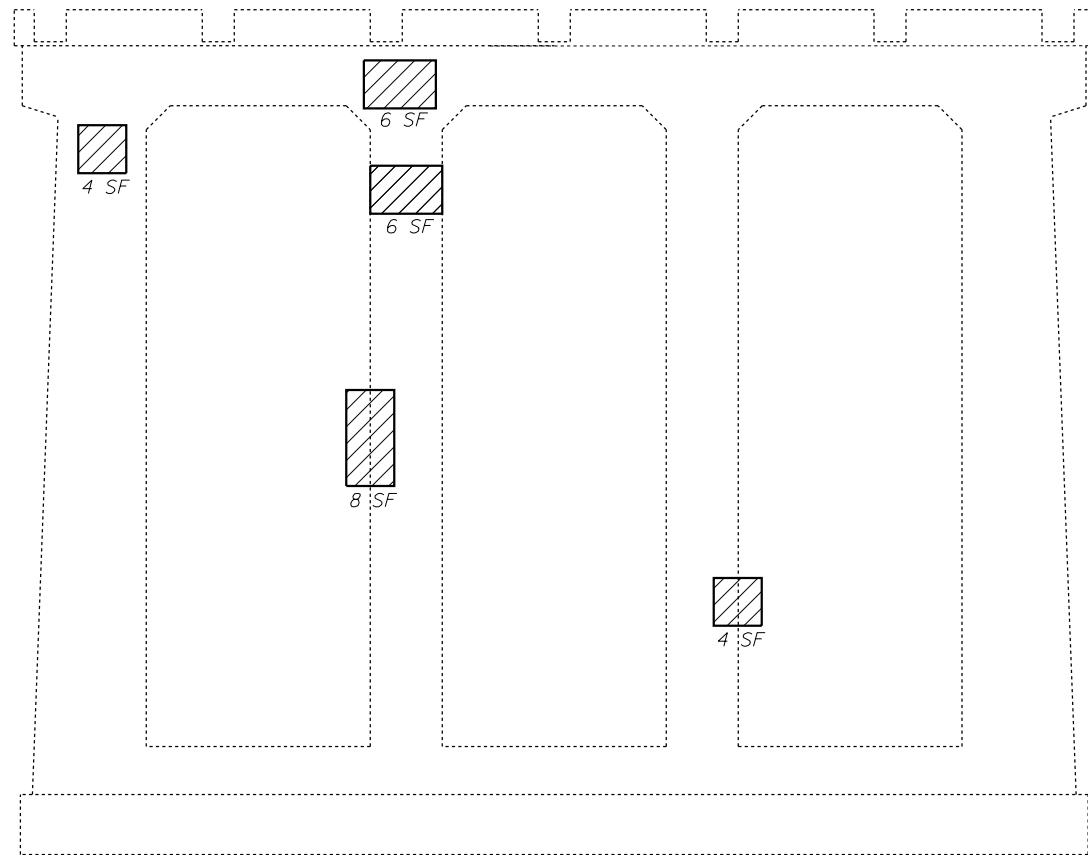
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DRAWN	SCS	REVISED	-
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

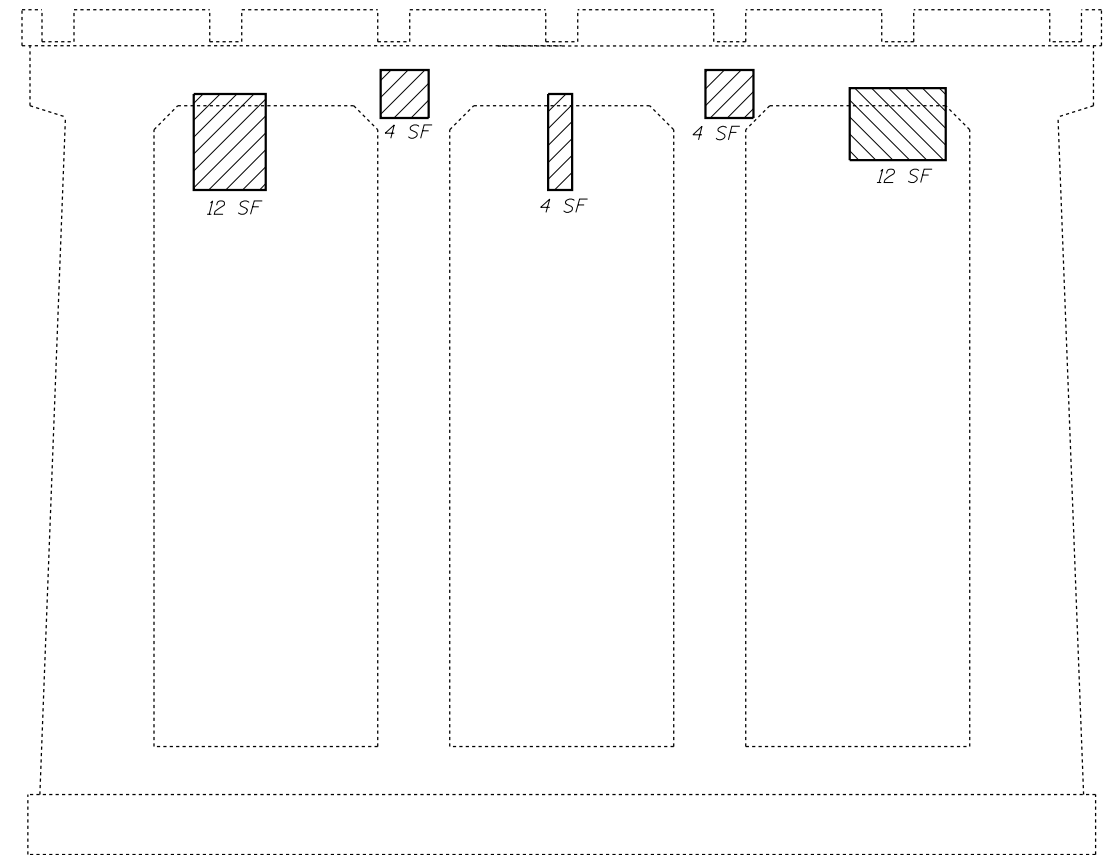
BEARING DETAILS  
STRUCTURE NO. 016-0616

SHEET NO. 9 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	30
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

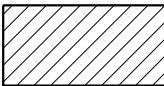


**PIER 2**  
(East Face)



**PIER 2**  
(West Face)

**LEGEND**

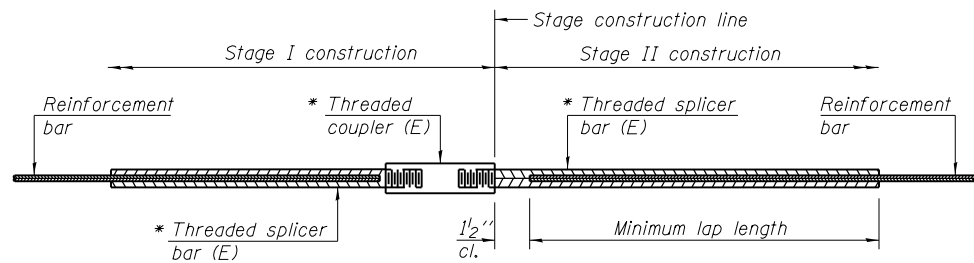
 Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	64



3/15/2019 6:38:35 PM J:\2018\6060\CAD\_Sheets\Exist dgm\016-0616-11Bar Splicers.dgn

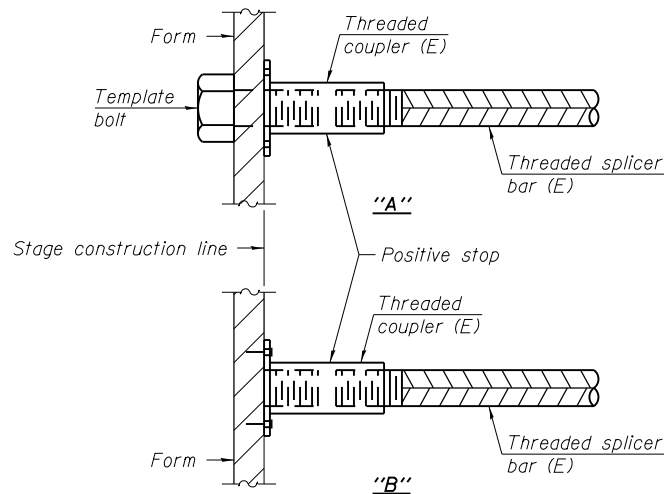


**STANDARD BAR SPLICER ASSEMBLY**

*Threaded splicer bar length = min. lap length + 1 1/2" + thread length*

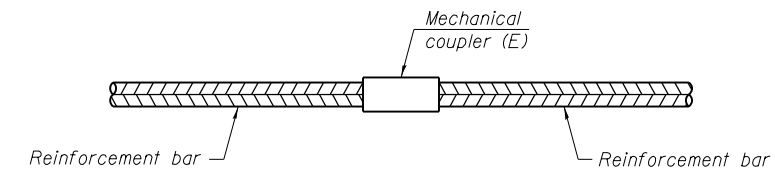
*\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.*

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut., C Rdwy	#5	14	3'-1"



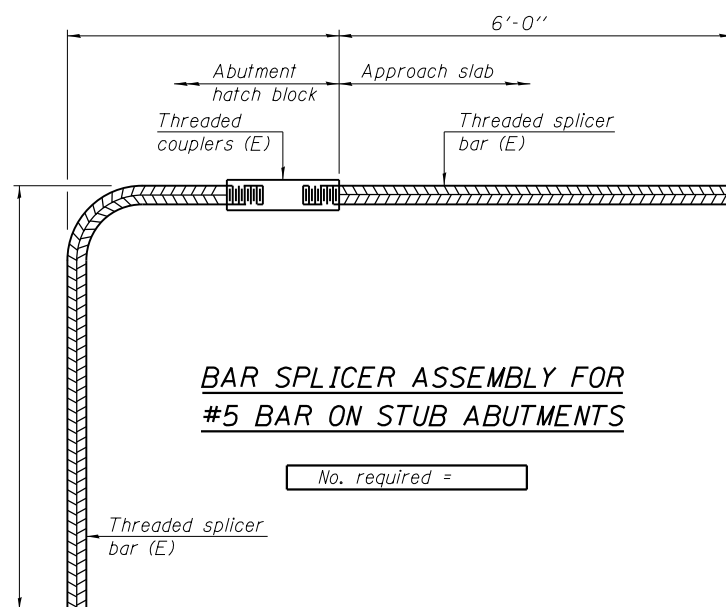
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

*Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See special provision for Mechanical Splicers.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.*



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 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 016-0616

SHEET NO. 11 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	32
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Existing Structure:  
 Existing Structure No. 016-0617 was built in 1923 as SBI 42 Section 112X-B.  
 In 1979, under FAU 3509 Section 112-BR, the superstructure was replaced.  
 Existing Structure is a three span reinforced concrete slab on steel beams  
 between closed abutments, 189' bk. to bk. abutments, 40'-2" out to out deck.  
 Bridge will be closed to traffic during construction.

Salvage: None

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 Bridge Deck Repairs
- 3 Typical Sections
- 4 Floor Drain Details
- 5 Expansion Joint Removal
- 6 Expansion Joint Repair
- 7-9 Preform Joint Strip Seal - Sidewalk
- 10 Beam Repair
- 11 Diaphragm Replacement Details

**SCOPE OF WORK**

- 1 Remove and replace expansion joints at Piers 1 & 2.
- 2 Remove and replace expansion joint at north abutment.
- 3 Repair deck slab
- 4 Scarify 3/4" deck surface and place new 2 1/2" overlay on deck.
- 5 Remove and patch existing floor drains as noted
- 6 Remove and replace floor drains with 6" floor drains.
- 7 Remove and replace diaphragms at beam repair.
- 8 Apply Protective Coat to inside and top faces of sidewalk, rails and overlay areas.
- 9 Polymer Concrete Nosing (South Abutment)

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	20.2
Floor Drains	Each	12
Concrete Superstructure	Cu. Yd.	22.4
Bridge Deck Grooving	Sq. Yd.	582
Protective Coat	Sq. Yd.	872
Furnishing and Erecting Structural Steel	Pound	6710
Structural Steel Repair	Pound	5590
Reinforcement Bars, Epoxy Coated	Pound	2850
Preformed Joint Strip Seal	Feet	114
Bridge Deck Scarification 3/4"	Sq. Yd.	579
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	291
Structural Steel Removal	Pound	6570
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	579
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	2
Deck Slab Repair (Full Depth, Type 2)	Sq. Yd.	11
Polymer Concrete	Cu. Ft.	1.3
Stone Parapet Repair	Sq. Ft.	27

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

All structural steel shall be AASHTO M270 Grade 50, except the expansion joint plates shall be ASSHTO M270 Grade 36.

Fasteners shall be High Strength Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with the concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

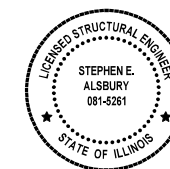
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay, see Special Provisions.

All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel".

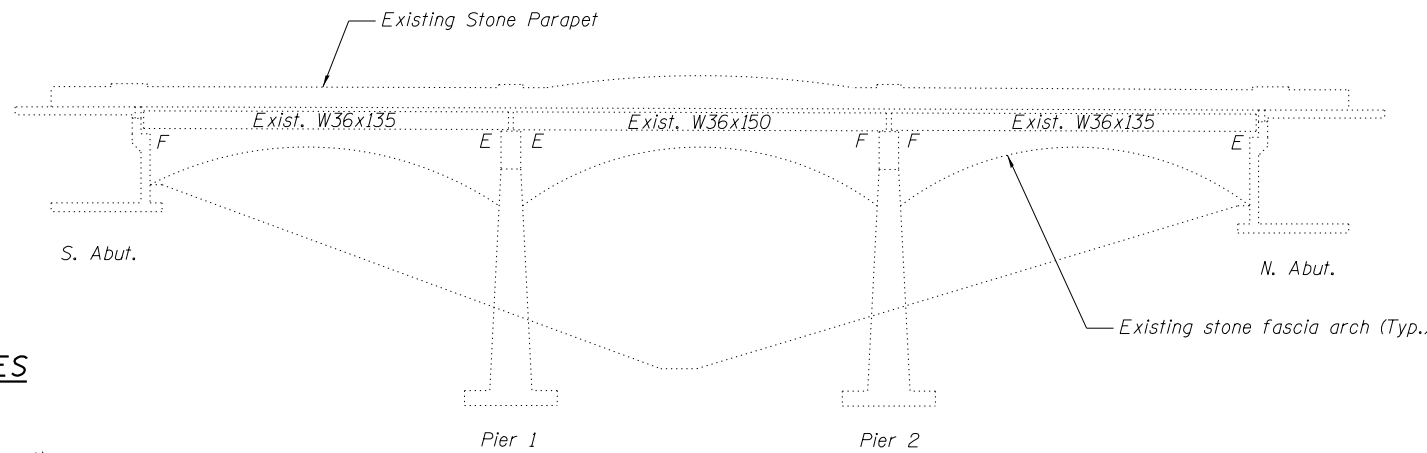
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

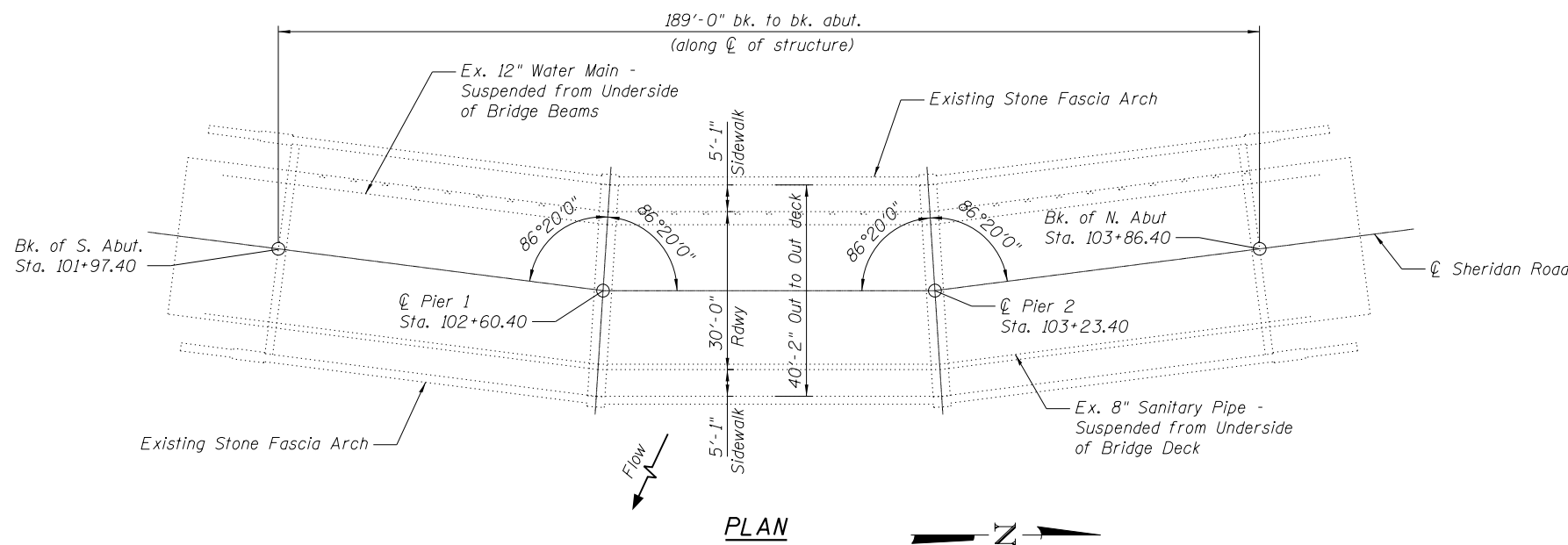


I hereby certify that these plans were prepared by me or under my direct personal supervision and that I am a duly licensed structural engineer under the laws of the State of Illinois.

*Stephen E. Alsbury* DATE: 05-07-2019  
 Stephen E. Alsbury S.E. #5261  
 LICENSE EXP. 11-30-2020



**ELEVATION**



**PLAN**

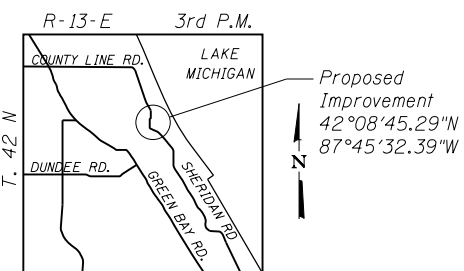
Note:  
 As directed by the Engineer, existing construction accessories welded to the top flange of the beams shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications

**DESIGN STRESSES**

(New Work)

- f'c = 3,500 psi
- fy = 60,000 psi (Reinforcement)
- fy = 50,000 psi (Structural Steel)



**LOCATION SKETCH**

**ABNA**  
 DESIGN FIRM REG. 184.002117  
 9901 S. Western Ave.  
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 F: 773.239.3728

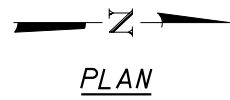
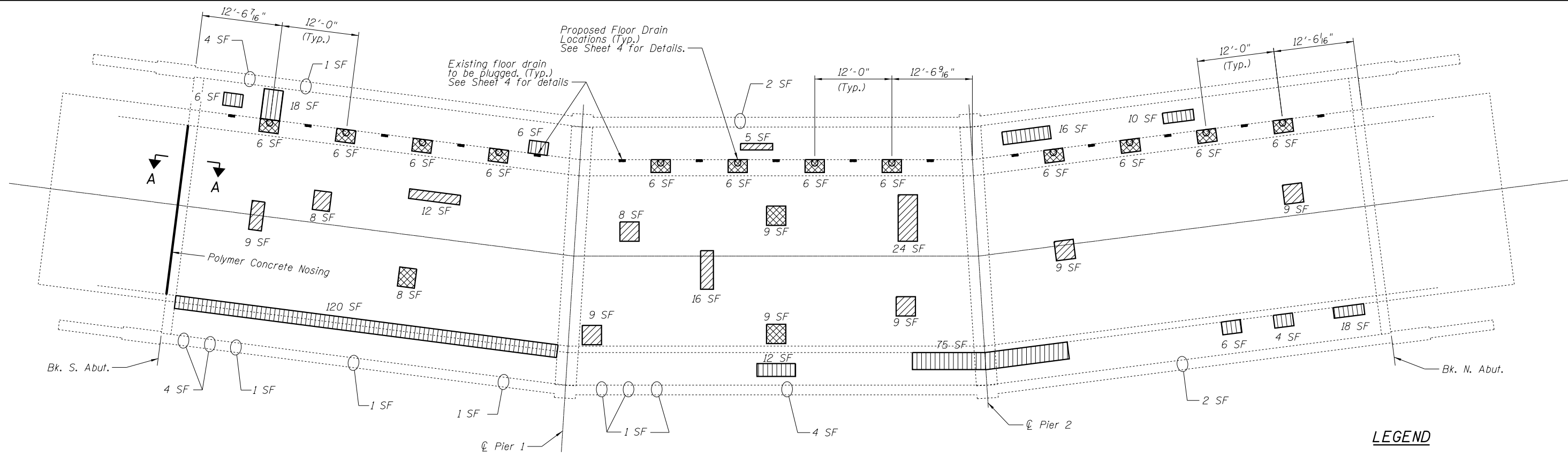
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 016-0617

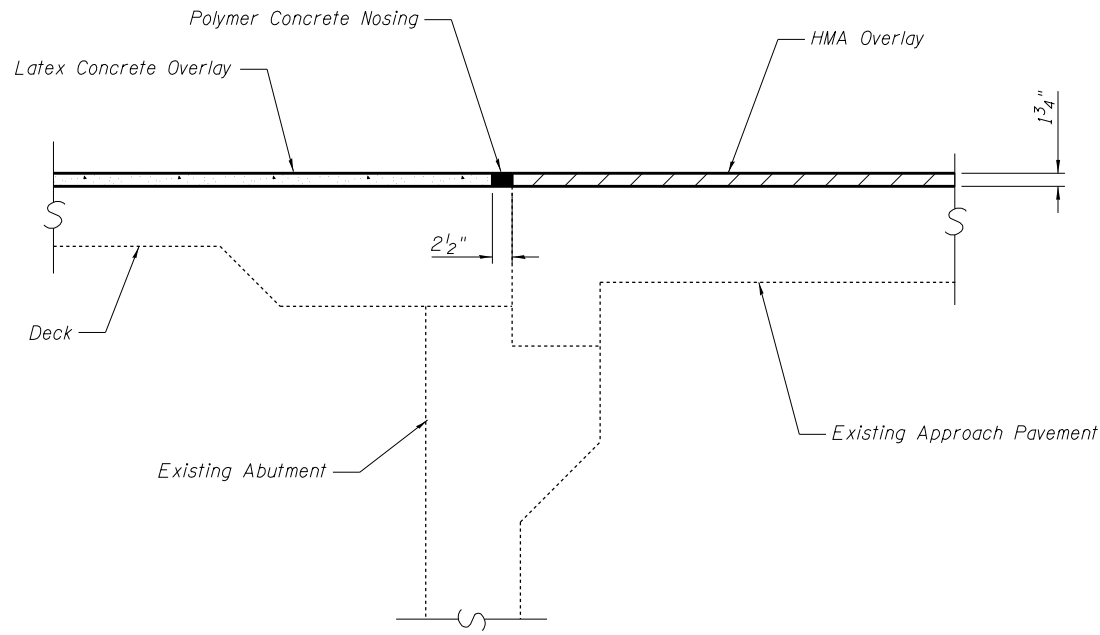
SHEET NO. 1 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	33
STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**LEGEND**

- Partial Depth Bridge Deck Repair (For Information Only on Areas Receiving Scarification)
- Full Depth Bridge Deck Repair
- Sidewalk/Curb Structural Repair of Concrete < 5"
- Existing 4"x12" Floor Drain to be Removed with Full Depth Patch
- Stone Parapet Repair Street Face



**SECTION A-A**  
**OVERLAY TREATMENT AT SOUTH ABUTMENT**

**BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	2
Floor Drains	Each	12
Deck Slab Repair (Full Depth, Type 2)	Sq. Yd.	11
Structural Repair of Concrete < 5"	Sq. Ft.	291
Stone Parapet Repair	Sq. Ft.	27

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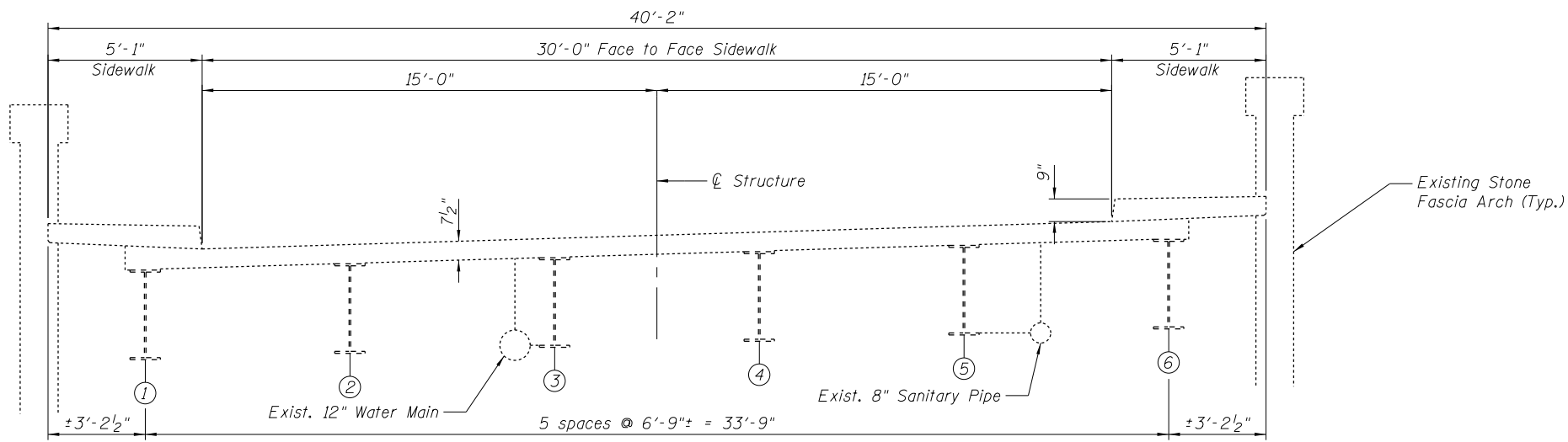
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK REPAIRS**  
**STRUCTURE NO. 016-0617**

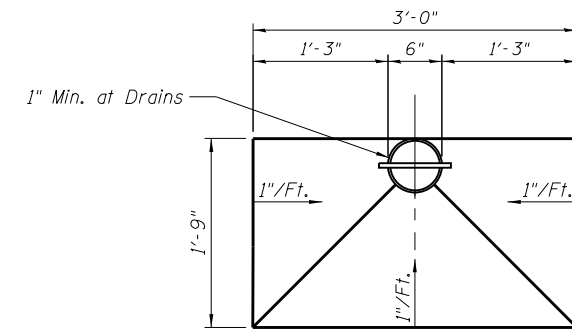
SHEET NO. 2 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

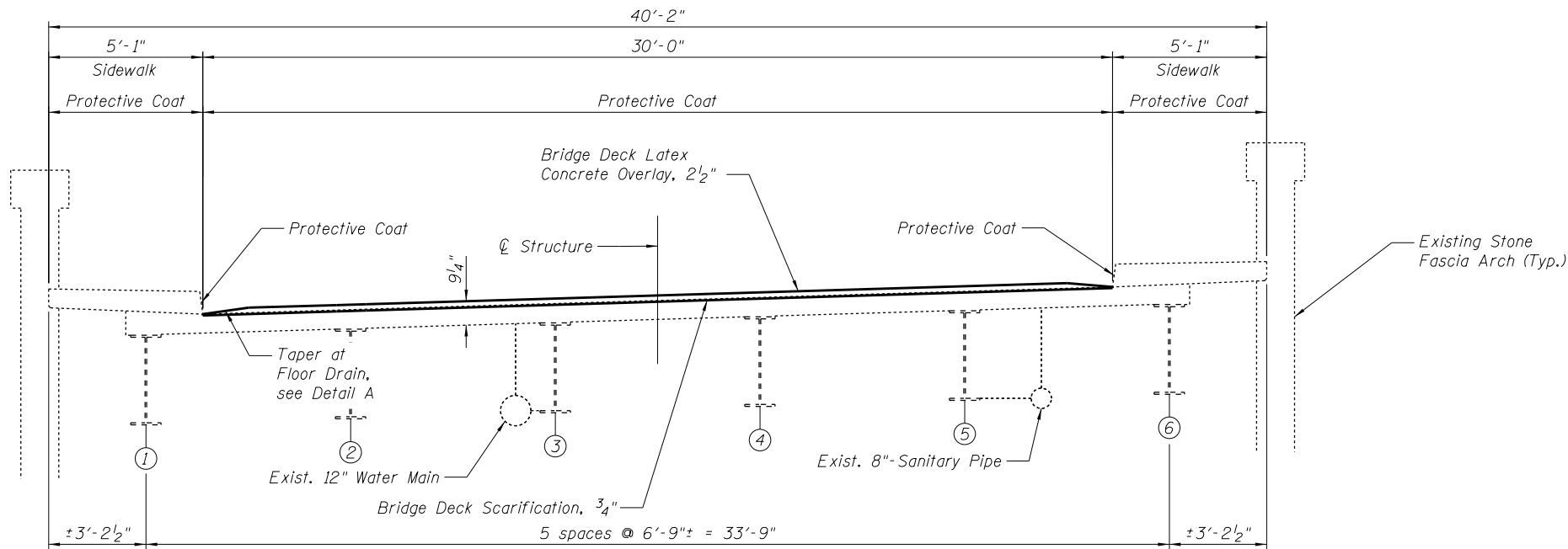
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**EXISTING**  
(Looking North)



**DETAIL "A"**  
**TOP PLAN**  
SHOWING OVERLAY TAPER AT FLOOR DRAINS



**PROPOSED CONSTRUCTION**  
(Looking North)



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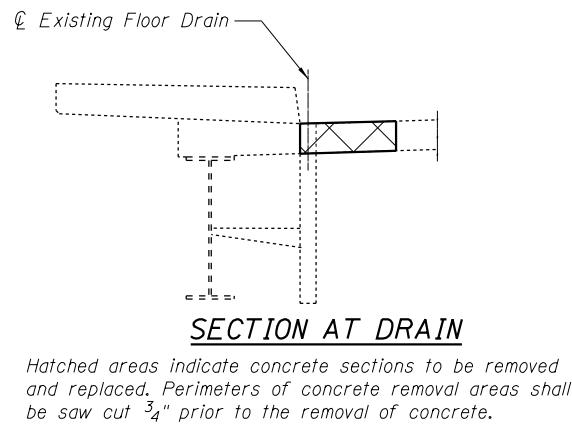
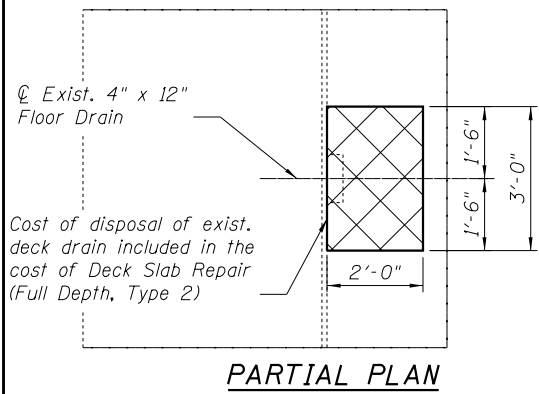
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

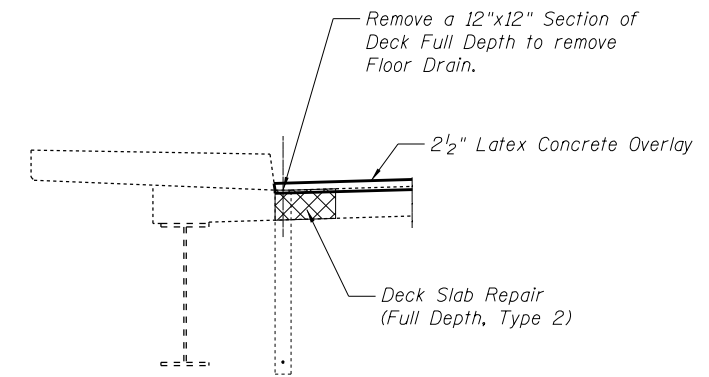
**TYPICAL SECTIONS**  
**STRUCTURE NO. 016-0617**

SHEET NO. 3 OF 11 SHEETS

F.A.U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

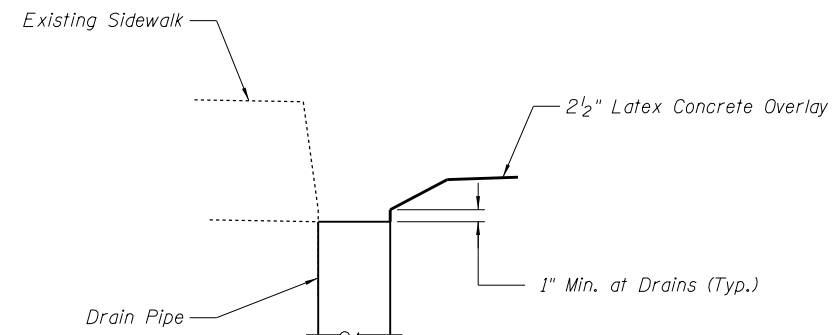
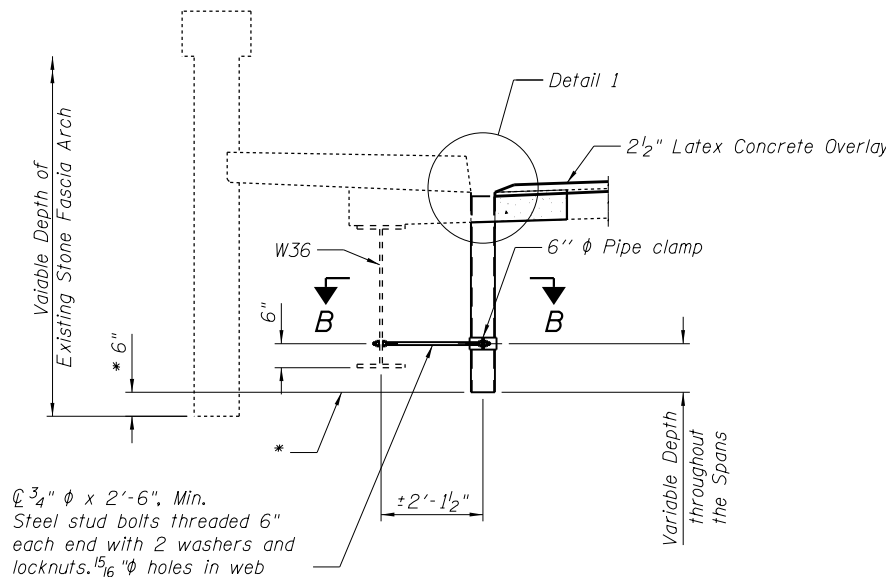
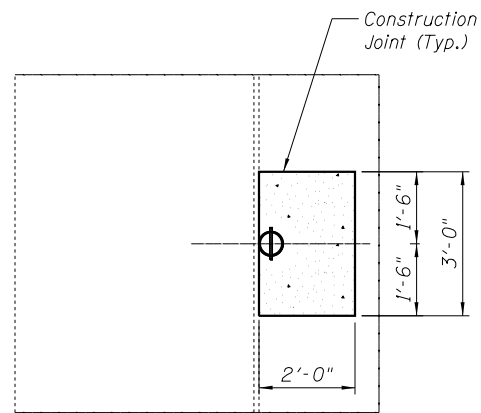


Note:  
All existing floor drain brackets that are attached to the webs of the existing W36 beams shall be removed. Cost of removal of the brackets are included in the pay item Deck Slab Repair (Full Depth, Type 2).



**EXISTING DRAIN REMOVAL DETAIL**

**EXISTING DRAIN ELIMINATION DETAIL**



**DETAIL 1**

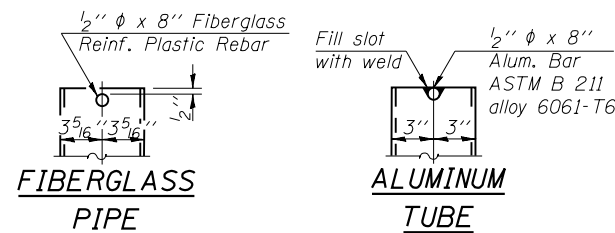
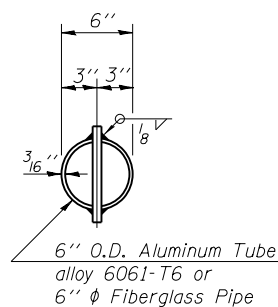
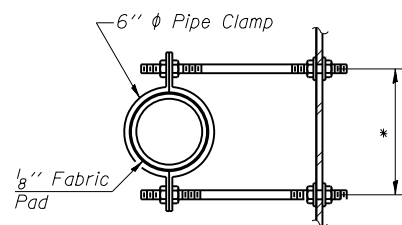
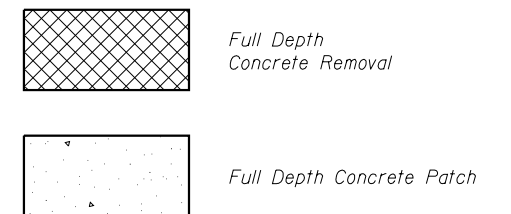
**PARTIAL PLAN**

**SECTION AT DRAIN**

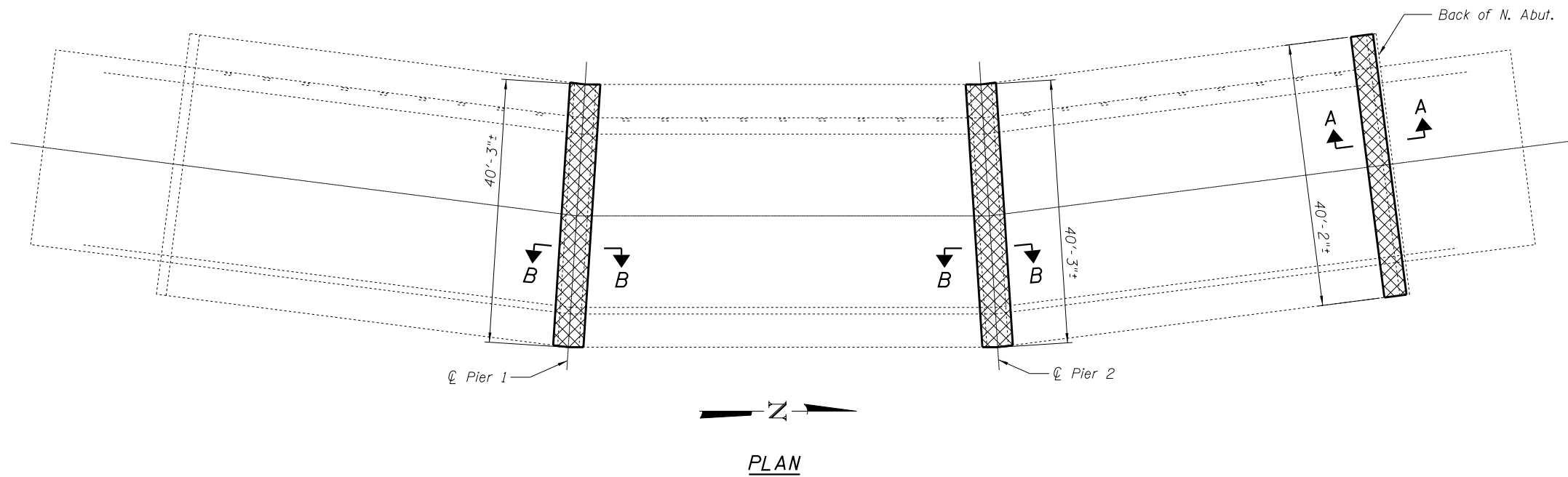
**NEW 6" DRAIN DETAIL**

\* The length of each 6" ⌀ drain pipe shall be determined by projecting a line perpendicular from the bottom of the stone fascia to a point below each proposed drain pipe.

**LEGEND**



Notes:  
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Specs. SSPC-SP1 prior to Painting.  
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
Galvanize clamping device according to AASHTO M 232. Cost of clamping device and inserts is included with Floor Drains.



**NOTES**

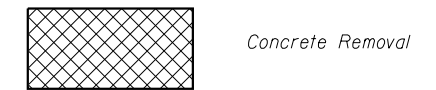
Removal of the existing expansion joints will not be paid for separately but shall be included in the cost for Concrete Removal.

Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following concrete removal to ensure the existing reinforcement remaining in place is not damaged. All existing reinforcing to be incorporated into new construction shall be blast-cleaned, straightened and properly positioned prior to concrete placement. Any reinforcement damaged during concrete removal shall be repaired or replaced using an approved Mechanical Bar Splicer System. Cost of removal shall be included with pay item for Concrete Removal. Cost of replacement shall be included with pay item for Concrete Superstructure.

Sidewalk shall be removed and replaced within the limits of hatched areas shown. All longitudinal sidewalk reinforcement shall remain in place.

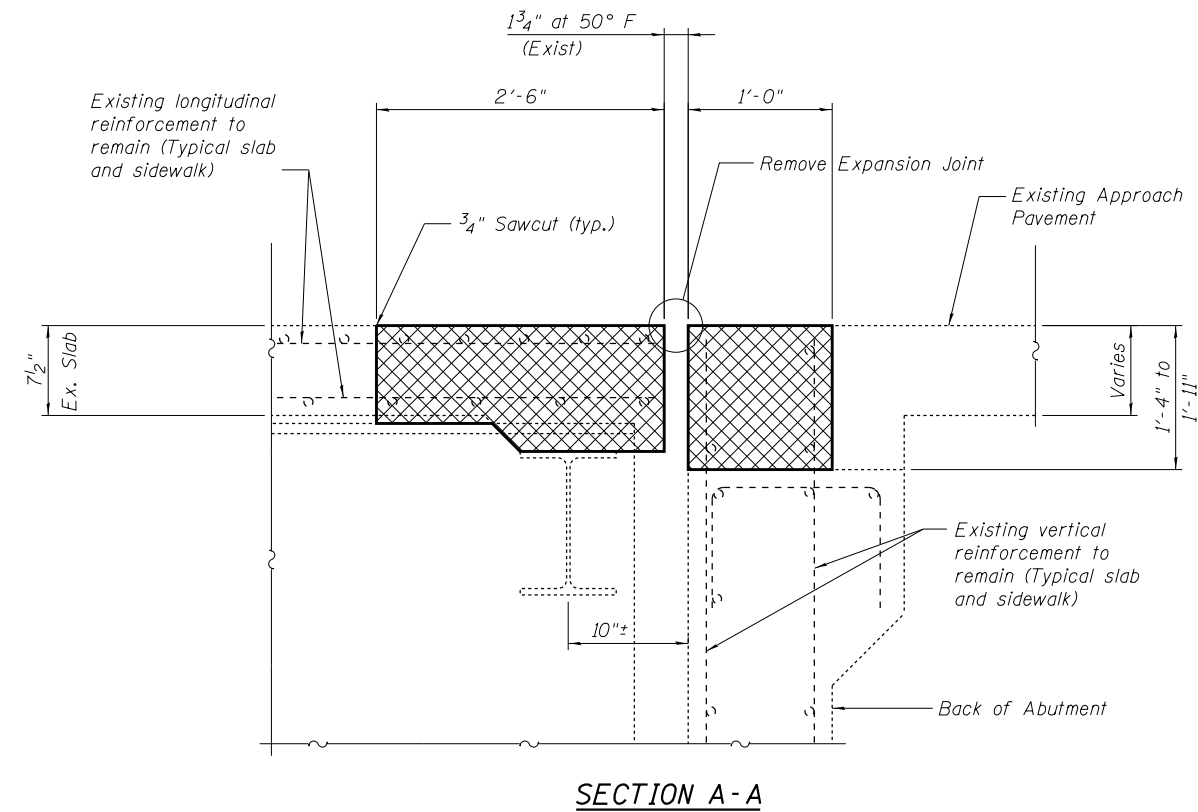
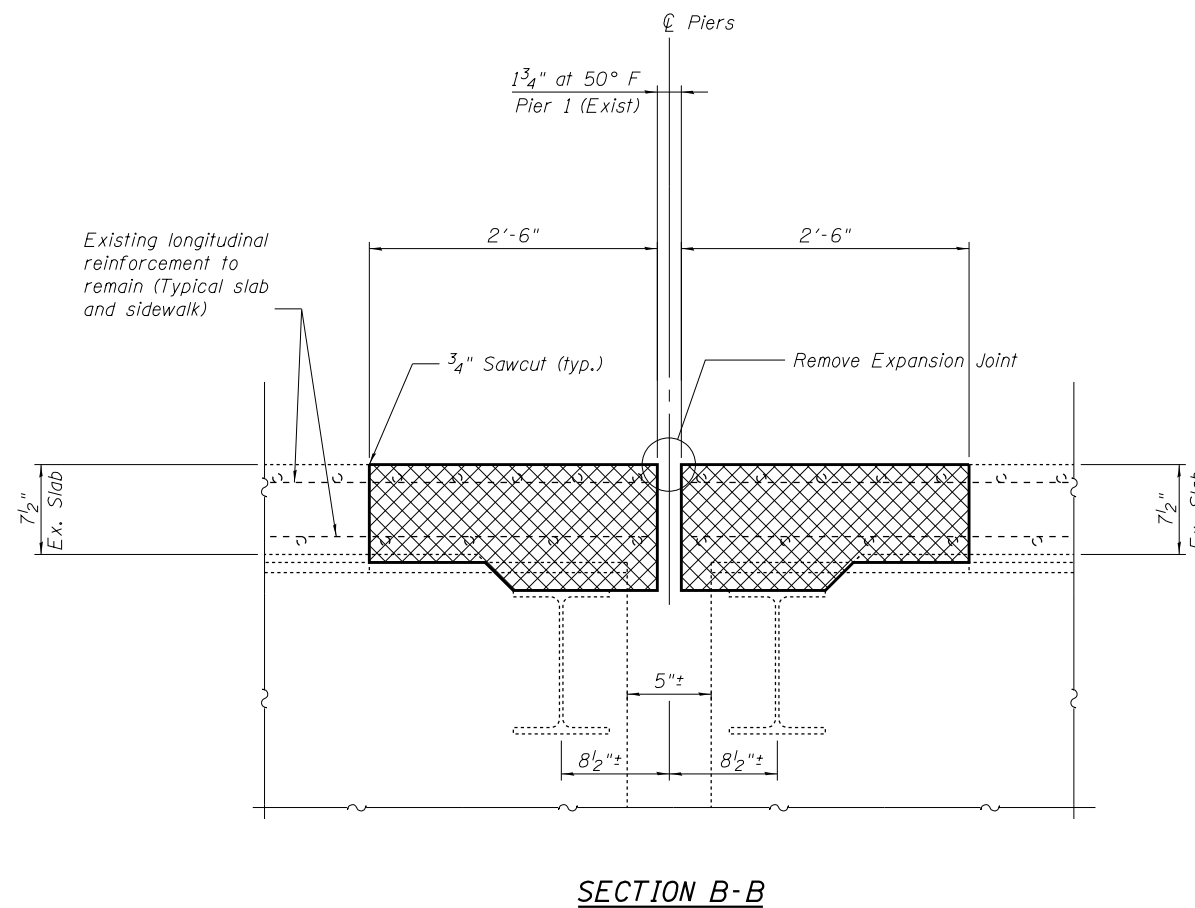
The Contractor shall use extreme care during concrete removal so as not to damage the Steel Wide Flange Beams and the Stone Fascia.

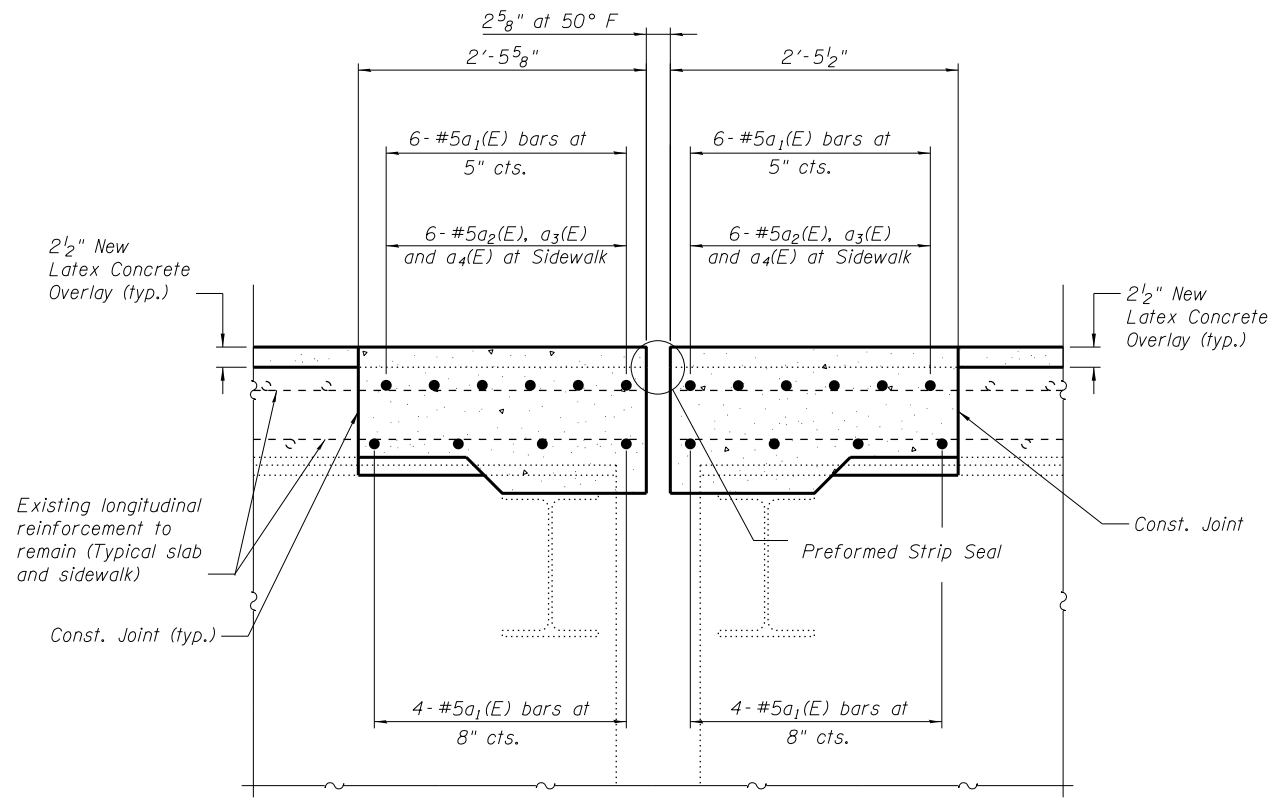
**LEGEND**



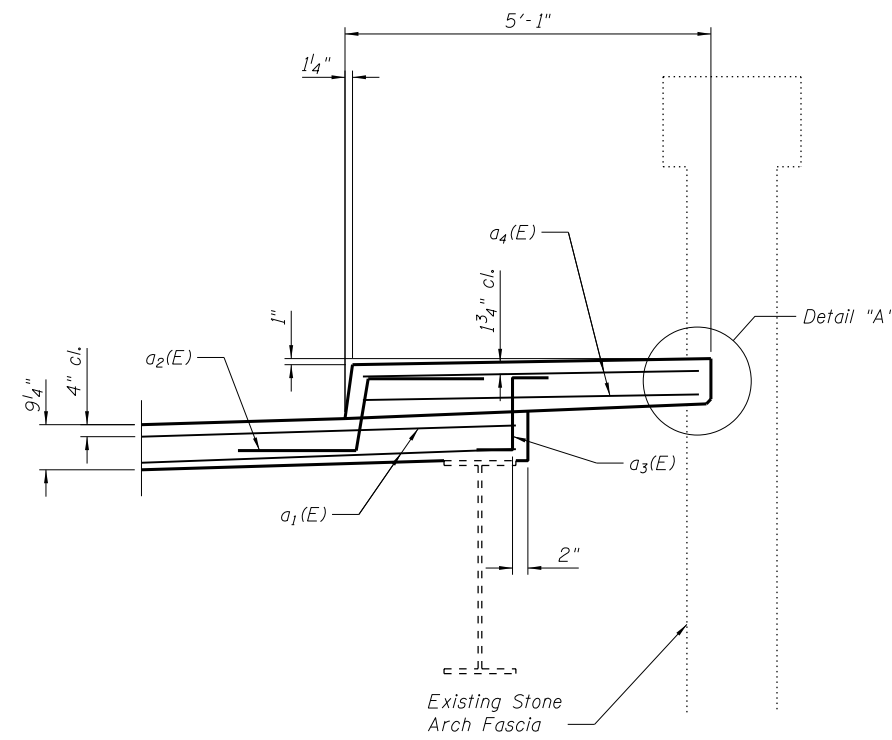
**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	20.2

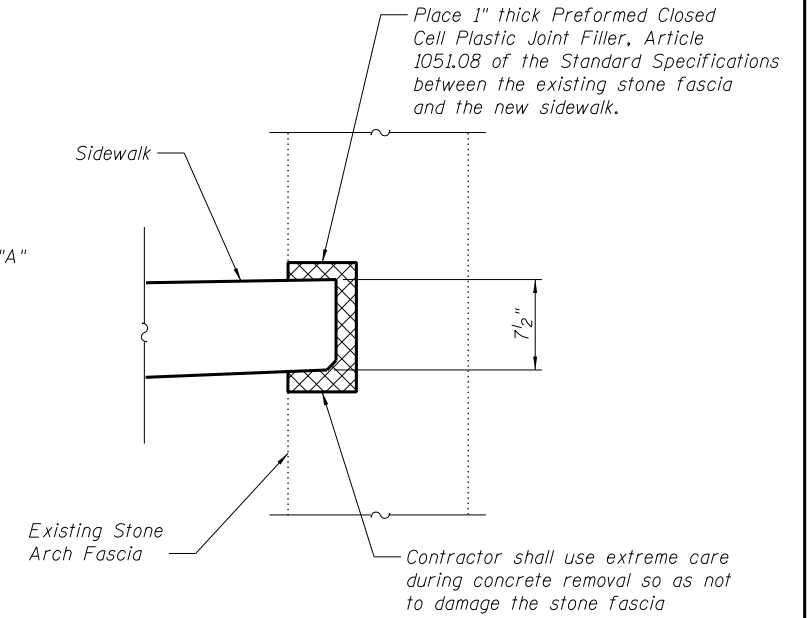




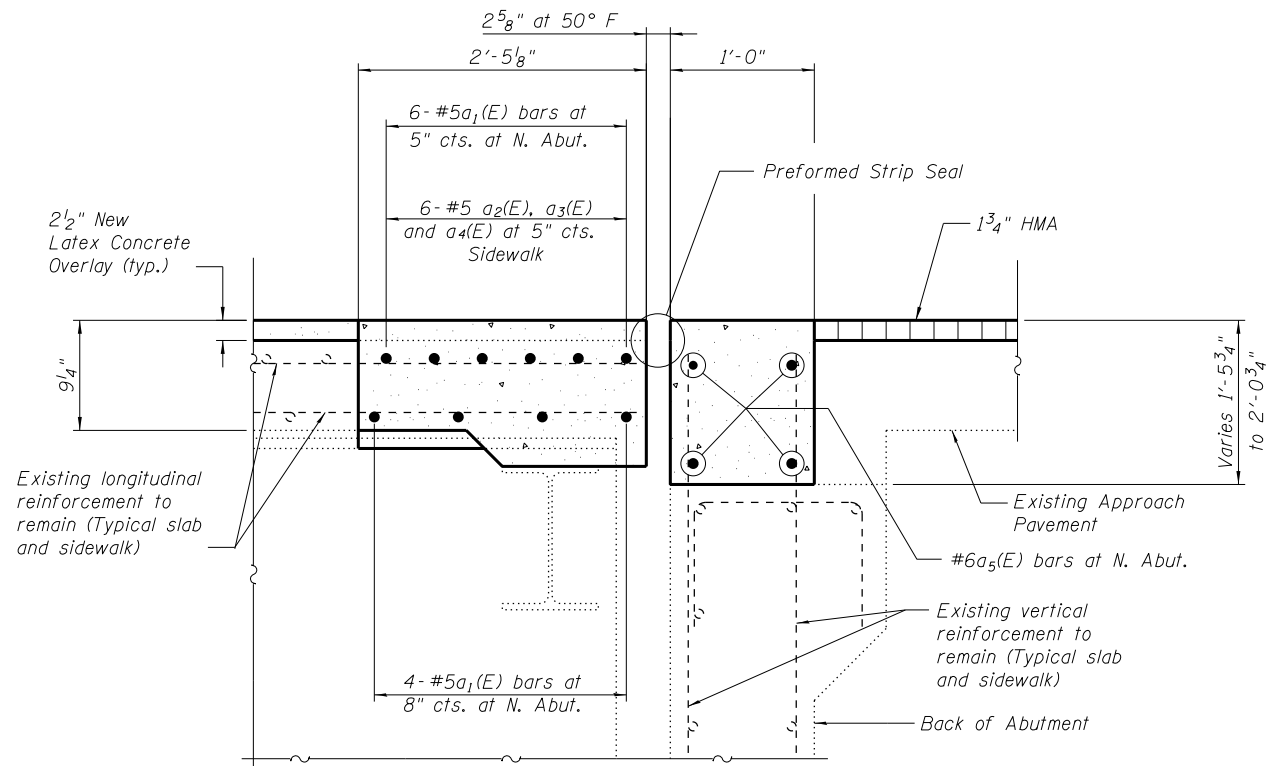
**TYPICAL SECTION AT PIERS**



**SECTION AT JOINT REPLACEMENT**  
(Looking North)



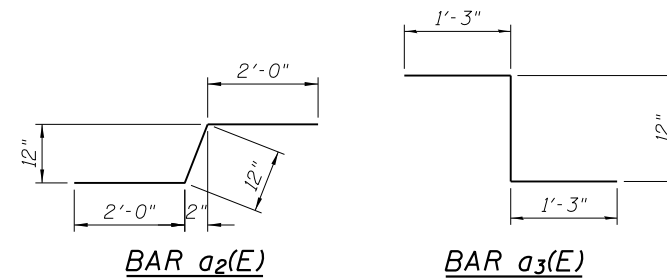
**DETAIL "A"**



**TYPICAL SECTION AT NORTH ABUTMENT**

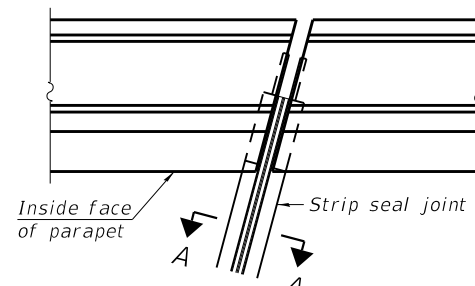
**NOTES**

The existing 7 1/2" slab shall be scarified 3/4" and then a 2 1/2" thick latex concrete overlay shall be placed on the deck.  
For details of Preformed Joint Strip Seal Expansion Joints, see Sheets No. 7 -9.



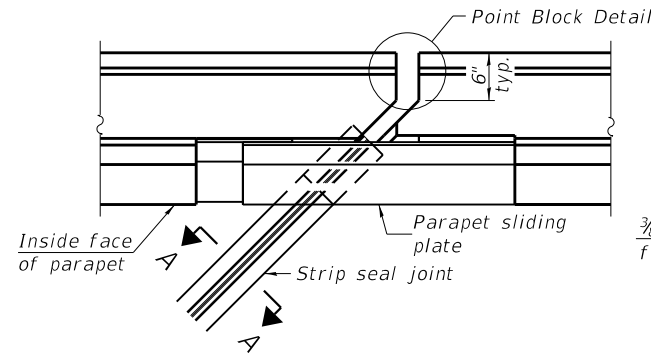
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	50	#5	34'-9"	—
a2(E)	60	#5	5'-0"	⌋
a3(E)	60	#5	3'-6"	⌋
a4(E)	60	#5	4'-8"	—
a5(E)	4	#6	34'-9"	—
Concrete Superstructure			Cu. Yd.	22.4
Reinforcement Bars, Epoxy Coated			Pound	2850

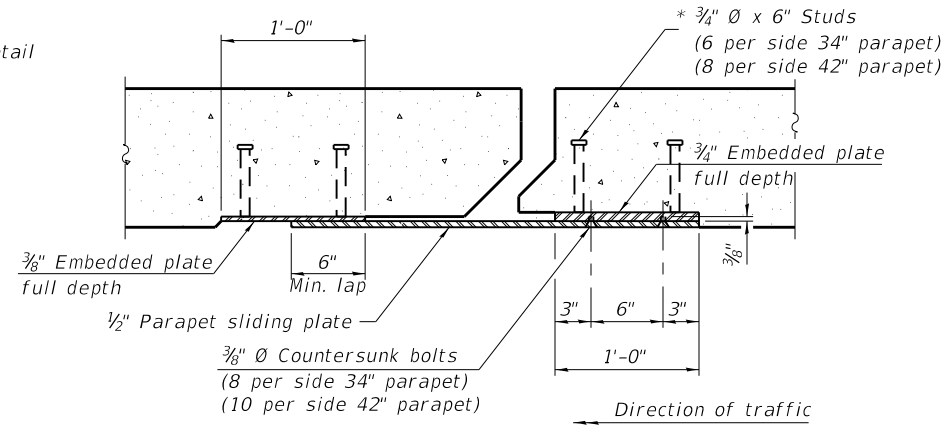


FOR SKEWS  $\leq 30^\circ$

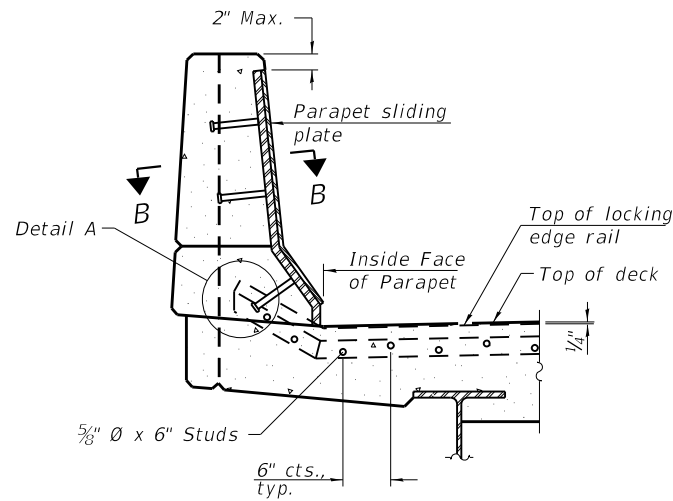
PLAN AT PARAPET



FOR SKEWS  $> 30^\circ$

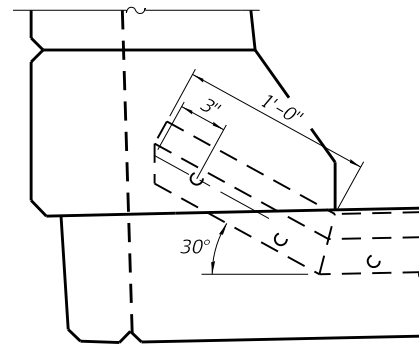


SECTION B-B

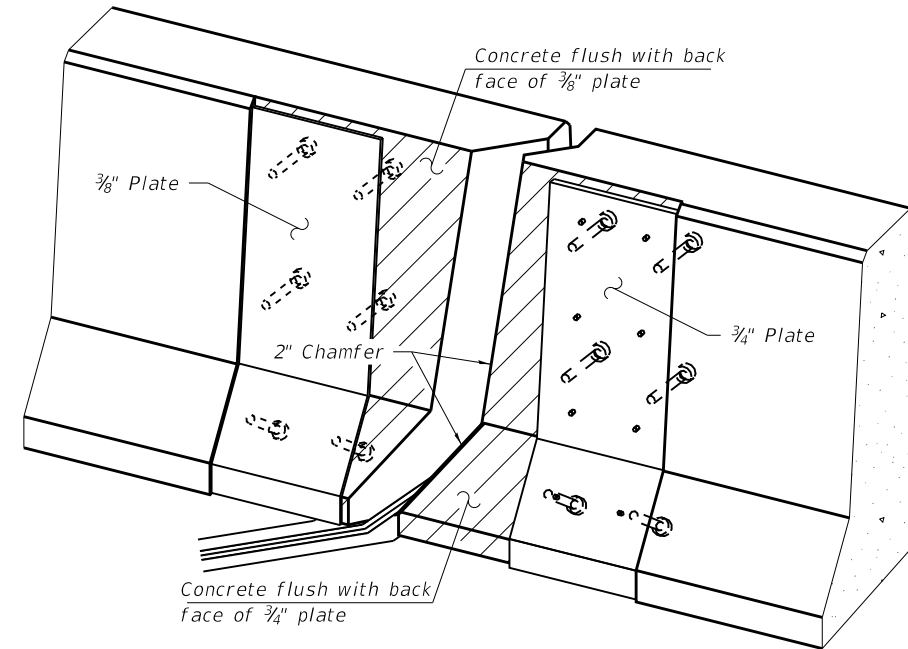


ELEVATION AT PARAPET

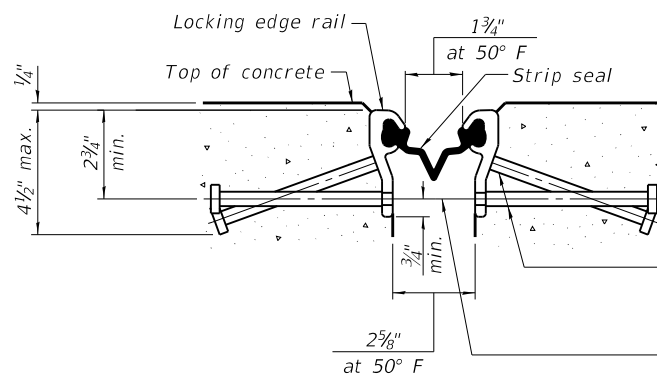
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW  
(Showing embedded plates only)



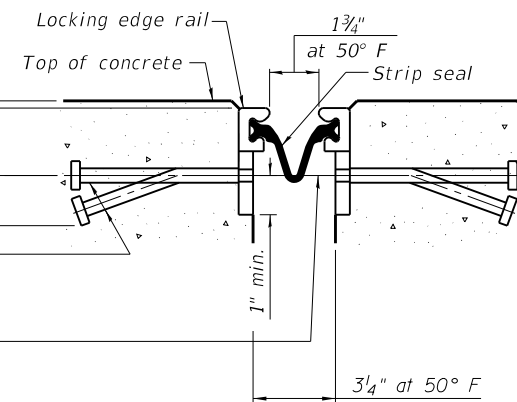
SHOWING ROLLED RAIL JOINT

\*  $5/8"$   $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

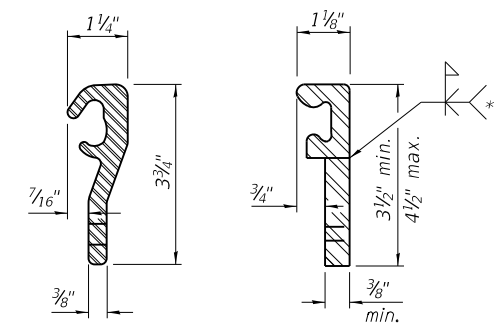
$3/8"$   $\phi$  threaded rods in  $7/16"$   $\phi$  holes at  $\pm 4"$ -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

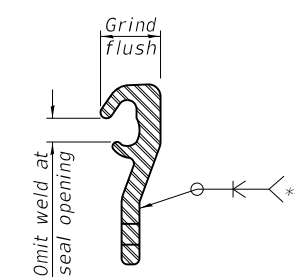
\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



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



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	114

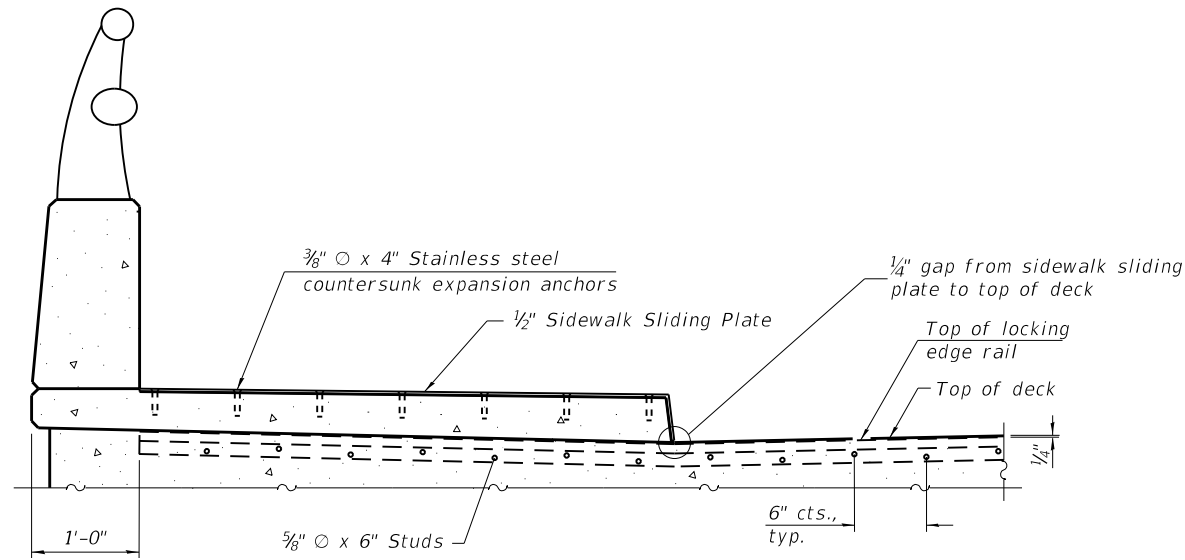
EJ-SS-S

8-11-17

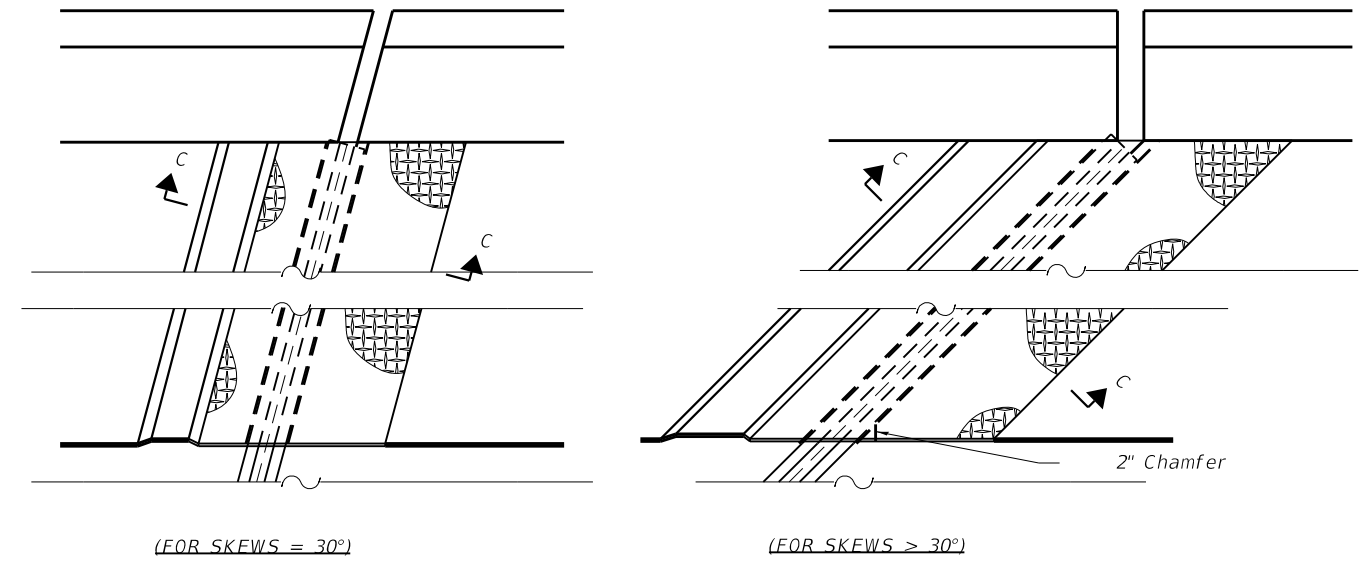
(Sheet 1 of 3)



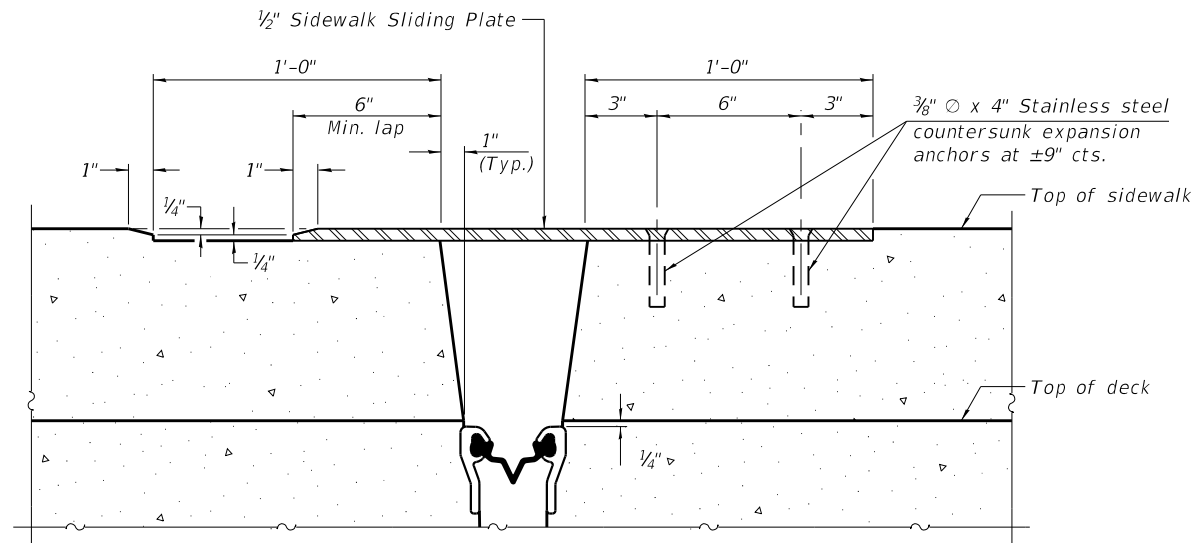
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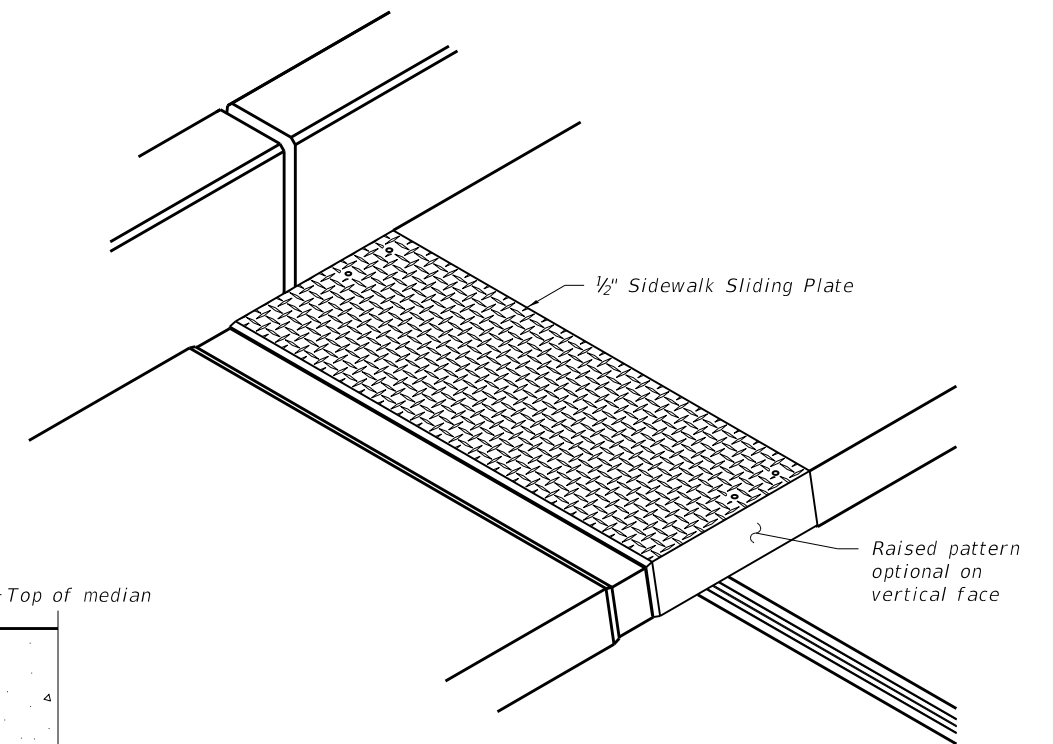
**ELEVATION AT RAISED SIDEWALK**



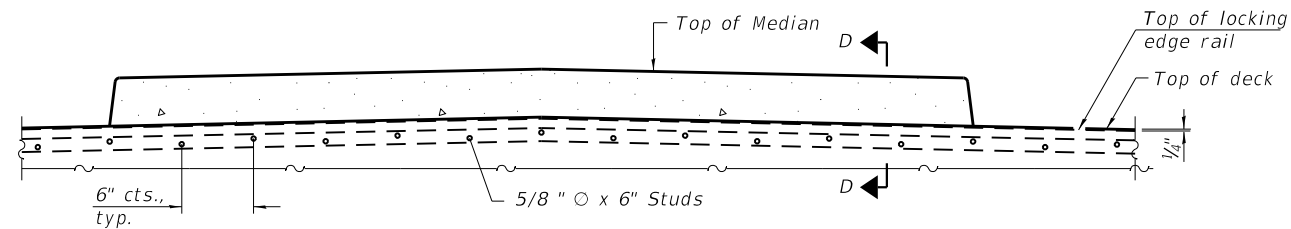
**PLAN AT RAISED SIDEWALK**



**SECTION C-C**

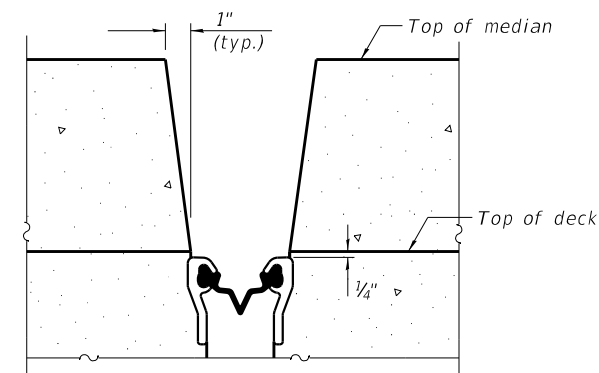


**TRIMETRIC VIEW**



**ELEVATION AT MEDIAN**

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



**SECTION D-D**  
(at Rt. ?'s)

(Sheet 2 of 3)

EJ-SS-S

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9901 S. Western Ave.  
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F: 773.239.3728

DESIGNED	SEA	REVISED	-
CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

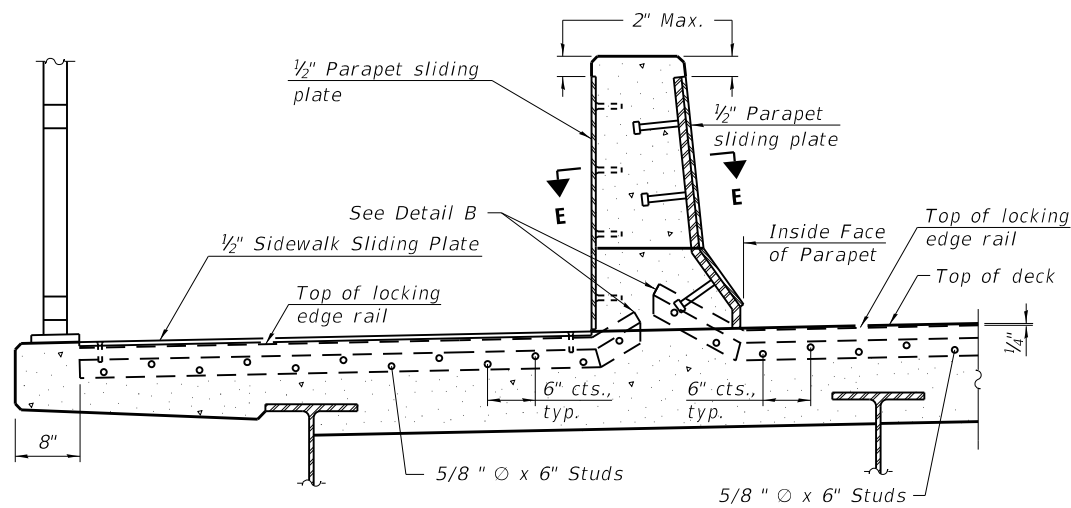
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK  
STRUCTURE NO. 016-0617**

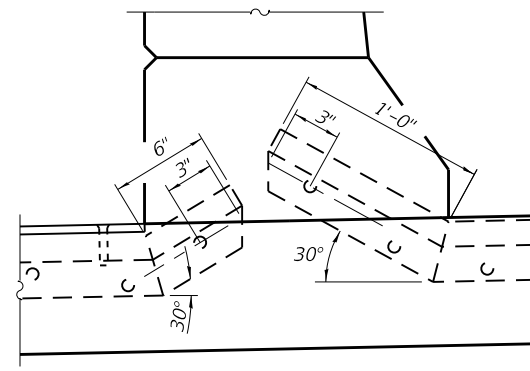
SHEET NO. 8 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	40
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

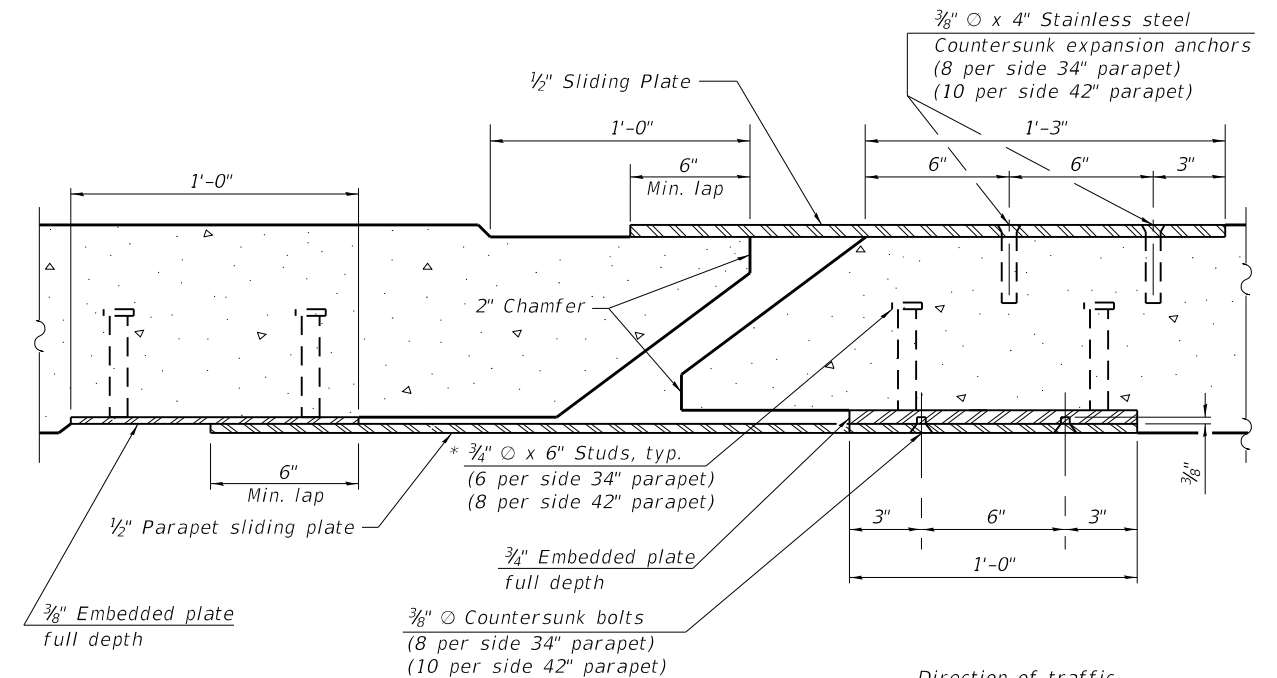
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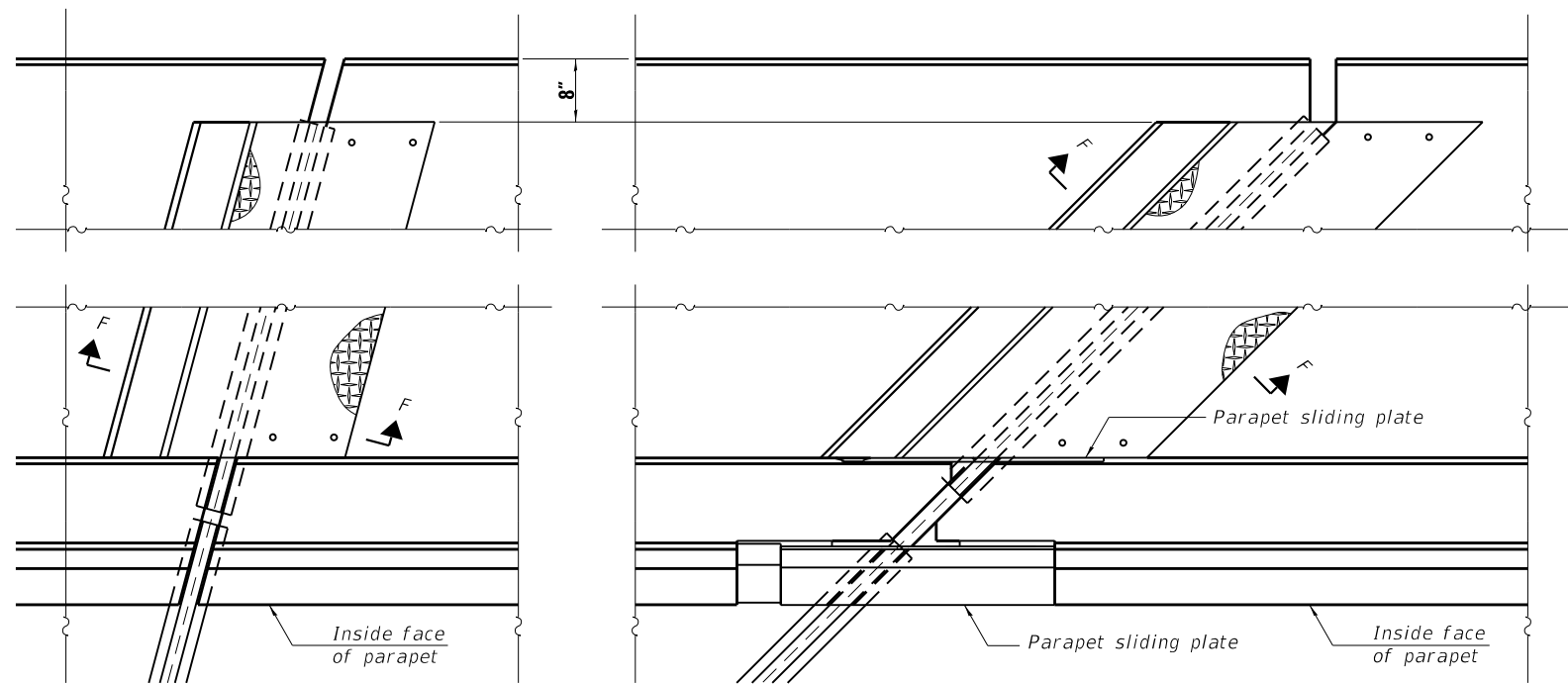
**ELEVATION AT DECK LEVEL SIDEWALK**  
 (Skews > 30° shown. Skews = 30° similar except as shown in plan view.)



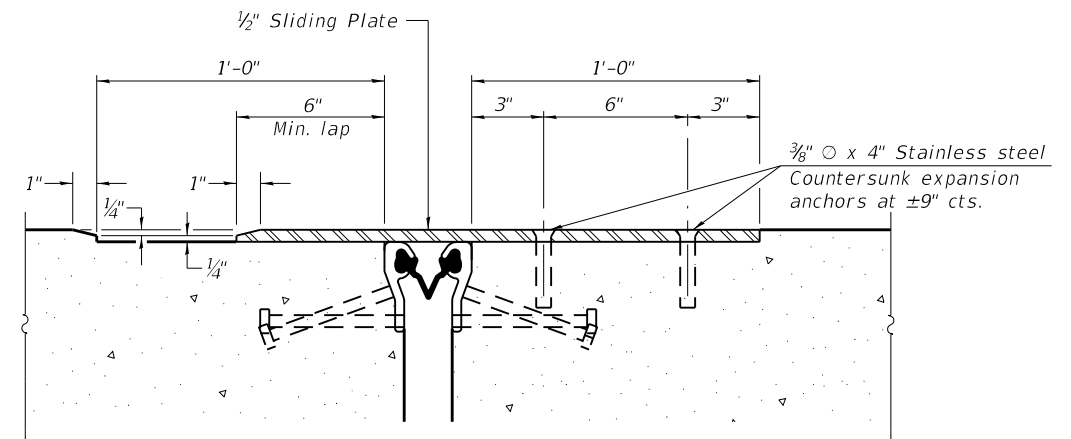
**DETAIL B**



**SECTION E-E**



**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

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8-11-17

(Sheet 3 of 3)



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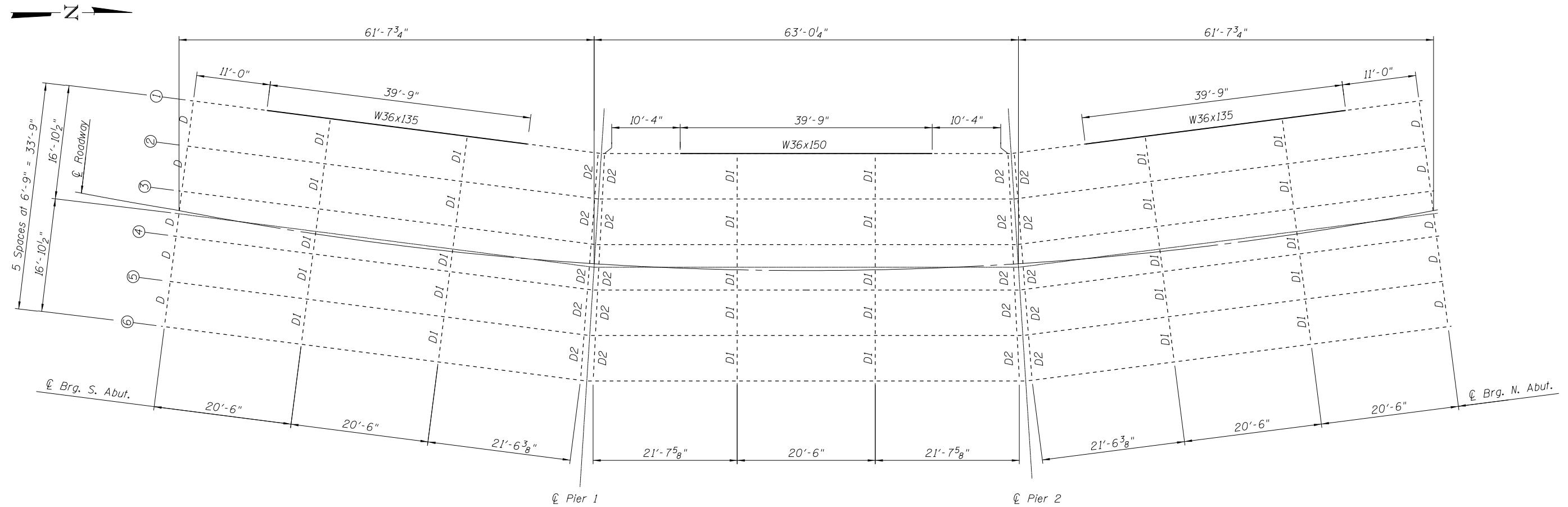
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DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

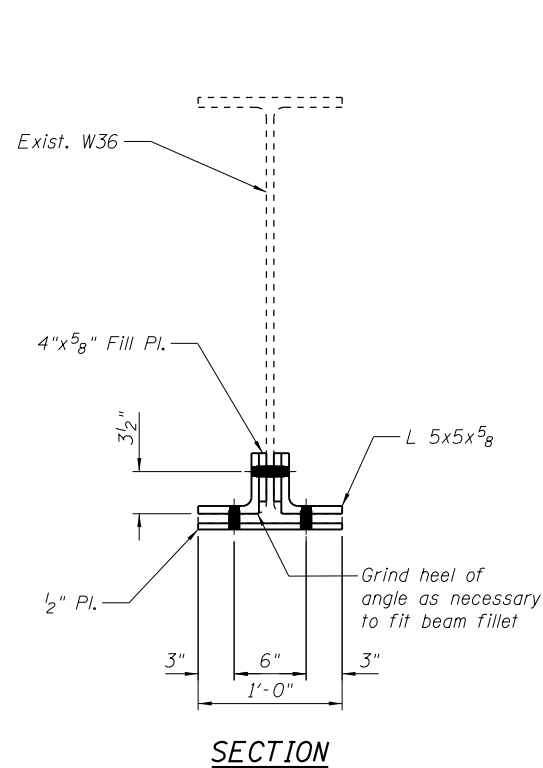
**PREFORMED JOINT STRIP SEAL - SIDEWALK  
 STRUCTURE NO. 016-0617**

SHEET NO. 9 OF 11 SHEETS

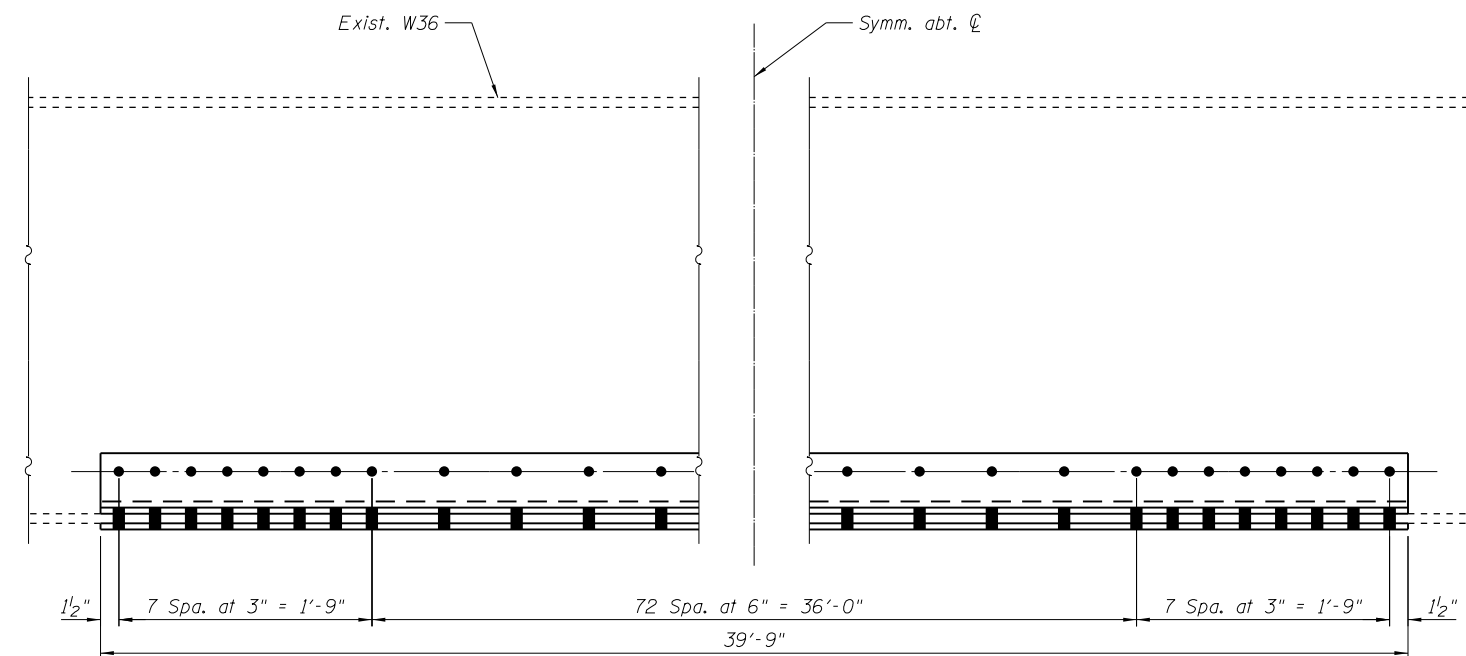
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	41
STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**FRAMING PLAN**



**SECTION**



**ELEVATION (GIRDER 1 ONLY)**

**BOTTOM FLANGE REPAIR DETAILS**

Note:  
All structural steel plates on this sheet are primary members.

**BILL OF MATERIAL**

Item	Unit	Total
Structural Steel Repair	Pound	5590**

\*\* Includes Plates, Angles and Fasteners.



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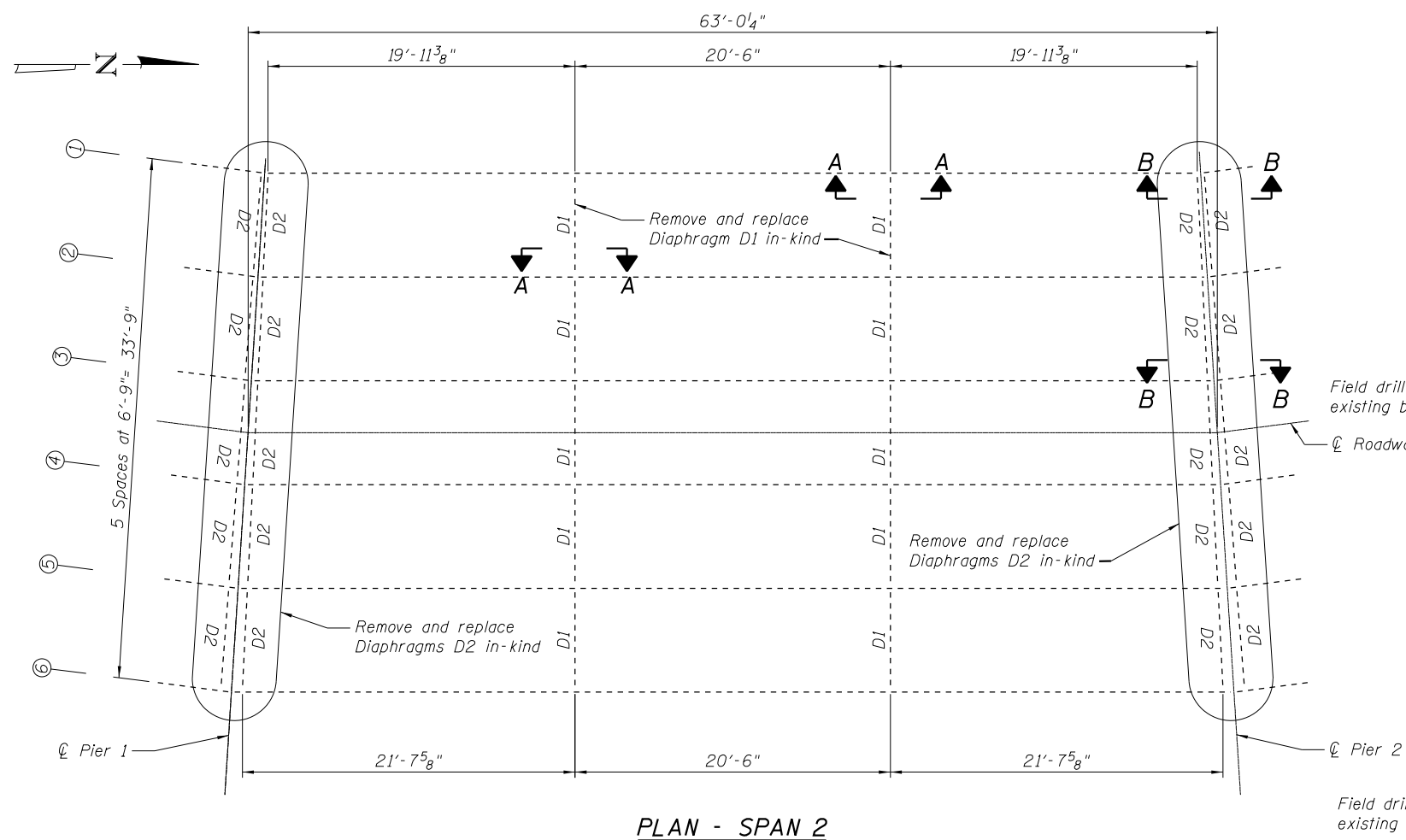
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

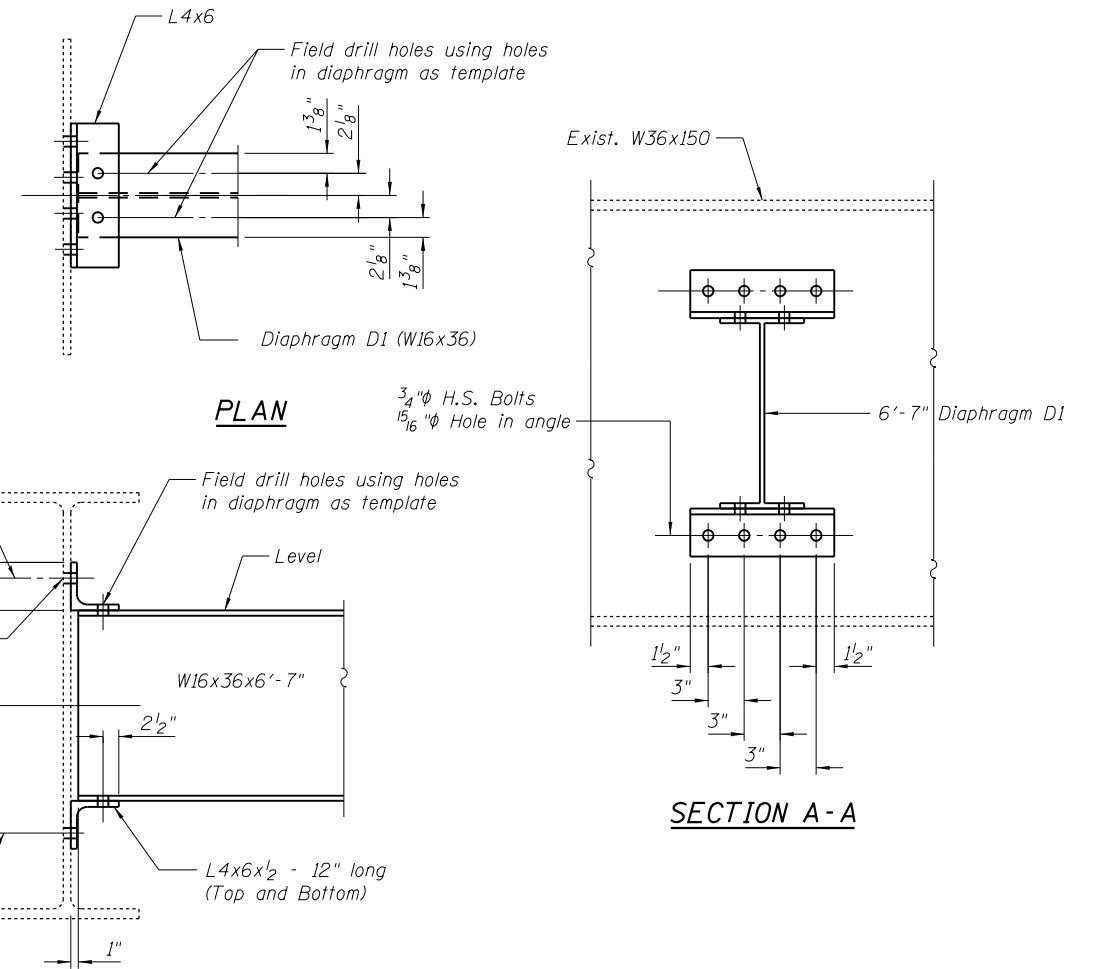
**BEAM REPAIR  
STRUCTURE NO. 016-0617**

SHEET NO. 10 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	42
STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



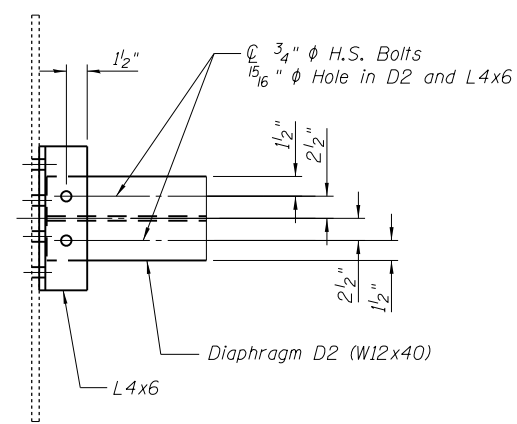
**PLAN - SPAN 2**



**ELEVATION**

**INTERIOR DIAPHRAGM D1**

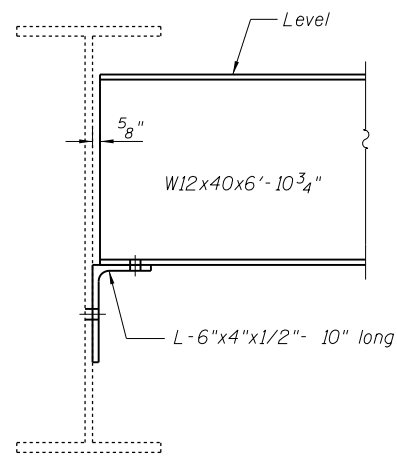
Existing & Proposed  
2 Required



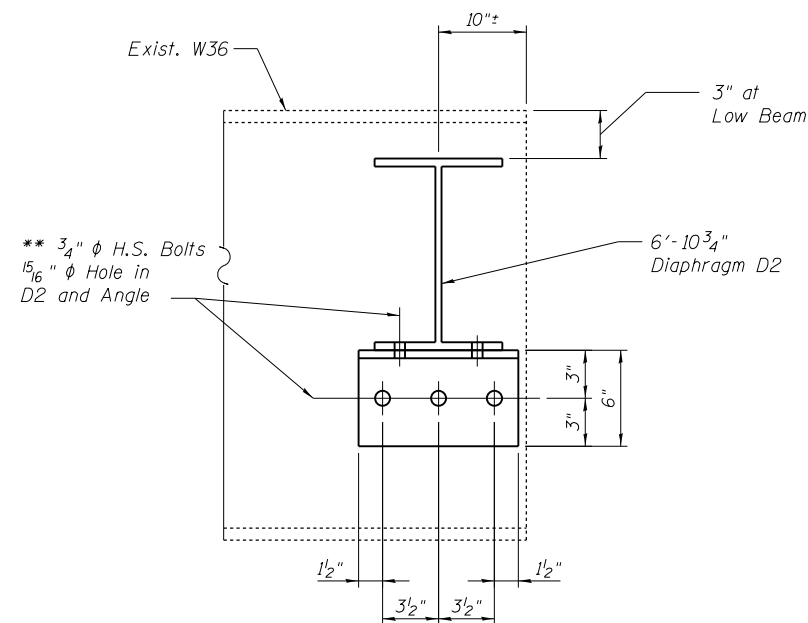
**PLAN**

**END DIAPHRAGM D2**

Existing & Proposed  
20 Required



**ELEVATION**



**SECTION B-B**

**\*\* Note:**  
Field drill all holes.  
Location of bolt holes maybe adjusted  
so that angle on opposite side share bolts.

**Note:**  
Remove existing Angles using air-arc method and grind smooth all weld material remaining on web. Cost included with Structural Steel Removal. Care must be taken not to damage beam webs. Two Hardened Washers shall be required over 1 5/16" φ holes in angles and beam.

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	6710*
Structural Steel Removal	Pound	6570*

\* Includes Diaphragms, Angles and Fasteners.



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DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM REPLACEMENT DETAILS  
STRUCTURE NO. 016-0617**

SHEET NO. 11 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	43
STA.	TO STA.	CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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**Existing Structure:**  
 Existing Structure No. 016-0618 was built in 1923 as SBI 42 Section 112. In 1979, under FAU 3509 Section 112-BR, the superstructure was replaced. Existing Structure is a three span reinforced concrete slab on steel beams between closed abutments, 128'-0" bk. to bk. abutments, 40'-2" out to out deck.  
 Bridge will be closed to traffic during construction.

Salvage: None

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 Bridge Deck Repairs
- 3 Typical Sections
- 4 Floor Drain Details
- 5 Expansion Joint Removal
- 6 Expansion Joint Replacement
- 7-9 Preformed Joint Strip Seal - Sidewalk
- 10 Framing Plan and Steel Repairs
- 10A Steel Repairs

**SCOPE OF WORK**

- 1 Remove and replace expansion joints at east and west abutments
- 2 Repair deck slab
- 3 Scarify 3/4" deck surface and place new 2 1/2" overlay on deck
- 4 Remove and replace floor drains with 6" circular pipe.
- 5 Remove and replace selective diaphragms. Perform steel repairs.
- 6 Apply Protective Coat to inside and top faces of sidewalk and overlay area.

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	21.9
Floor Drains	Each	24
Concrete Superstructure	Cu. Yd.	23.0
Bridge Deck Grooving	Sq. Yd.	401
Protective Coat	Sq. Yd.	596
Furnishing and Erecting Structural Steel	Pound	1290
Structural Steel Repair	Pound	11,500
Reinforcement Bars, Epoxy Coated	Pound	1480
Preformed Joint Strip Seal	Feet	76
Bridge Deck Scarification 3/4"	Sq. Yd.	407
Structural Steel Removal	Pound	1240
Bridge Deck Latex Concrete Overlay 2 1/2"	Sq. Yd.	407
Deck Slab Repair (Full Depth, Type 2)	Sq. Yd.	4
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	22

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

Fasteners shall be High Strength Bolts 7/8" φ. in holes 1 5/16" φ. unless otherwise noted.

All structural steel shall be AASHTO M270 Grade 50, except the expansion joint plates shall be ASSHTO M270 Grade 36.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with the concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

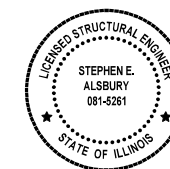
Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay, see Special Provisions.

All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel".

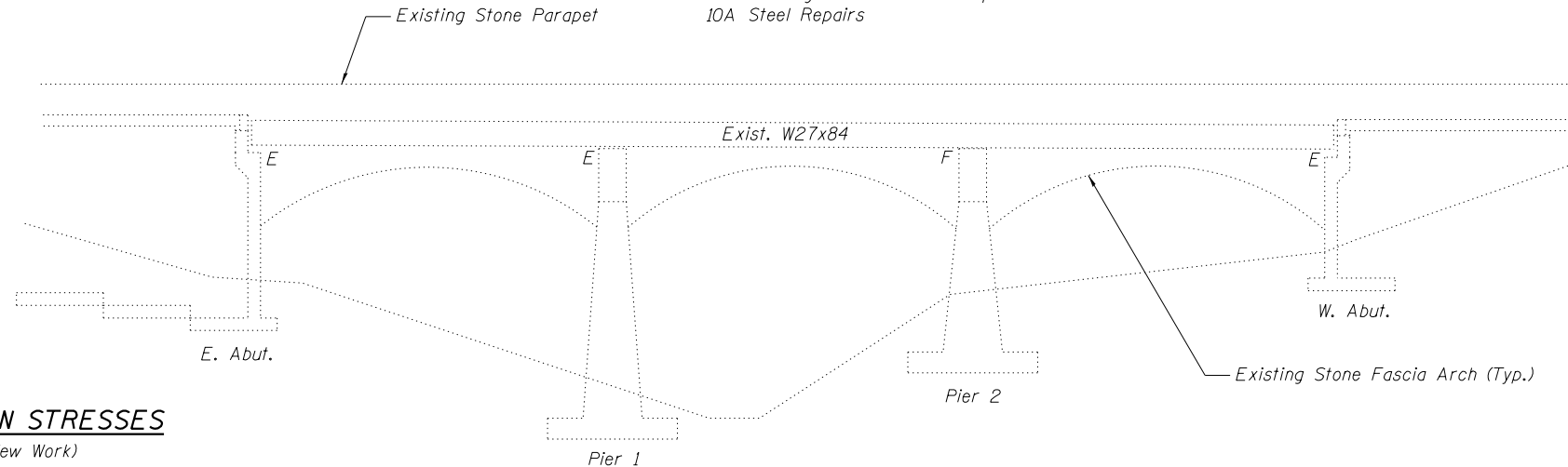
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

I hereby certify that these plans were prepared by me or under my direct personal supervision and that I am a duly licensed structural engineer under the laws of the State of Illinois.



*Stephen E. Alsbury* DATE: 05-07-2019  
 Stephen E. Alsbury S.E. #5261  
 LICENSE EXP. 11-30-2020

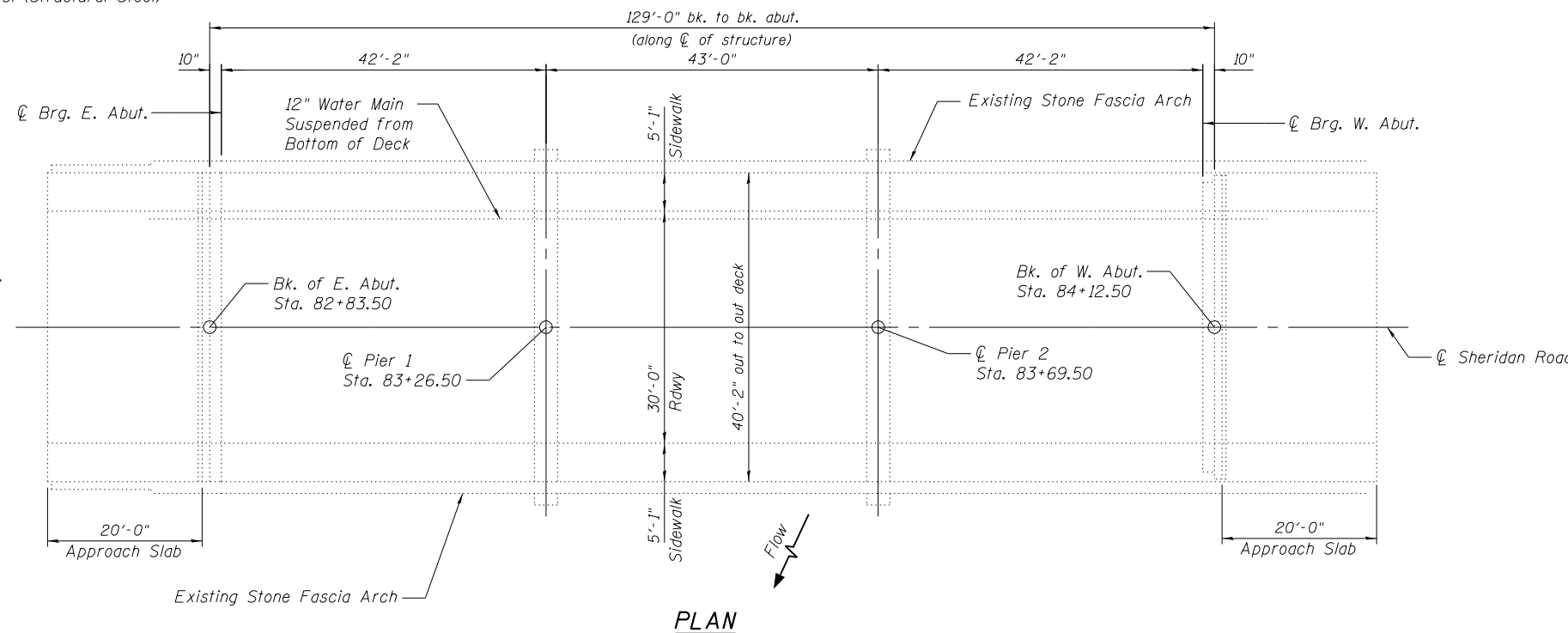


**ELEVATION**

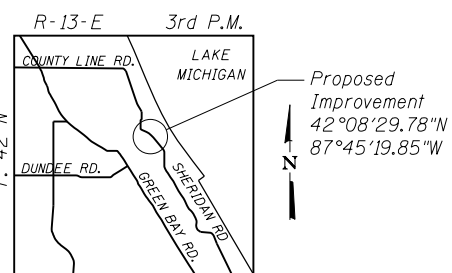
**DESIGN STRESSES**

(New Work)

- f'c = 3,500 psi
- fy = 60,000 psi (Reinforcement)
- fy = 50,000 psi (Structural Steel)



**PLAN**



**LOCATION SKETCH**

**Note:**  
 As directed by the Engineer, existing construction accessories welded to the top flange of the beams shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications

**ABNA**  
 DESIGN FIRM REG. 184.002117  
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 Ph. 773-881-4788  
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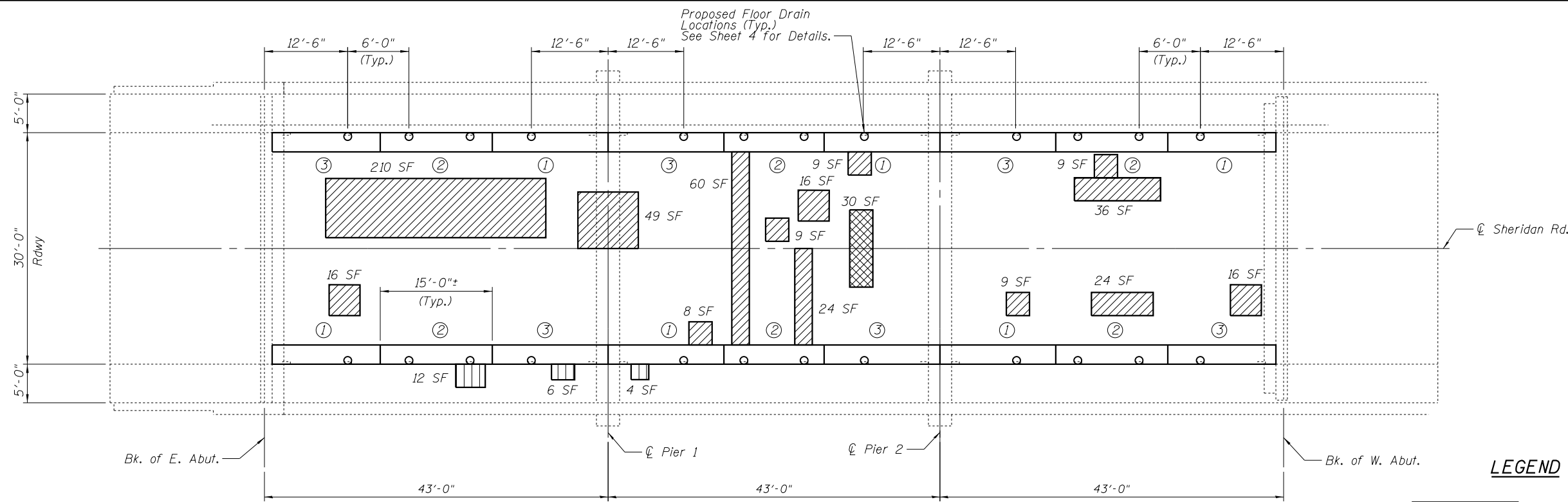
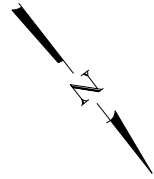
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CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 016-0618**

SHEET NO. 1 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	44
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**PLAN**

**Note:**  
 Removal and replacement of floor drains will require 3 separate operations as shown. At least 72 hours shall have elapsed from the end of the previous pour and the concrete shall have attained a minimum modulus of rupture of 650 psi or a minimum compressive strength of 3500 psi. Sections marked "1" shall be removed and replaced prior to doing section "2" then "3". It is permissible to leave a 1 foot gap between areas of replacement. Existing reinforcement shall be cleaned and incorporated into new concrete. Removal of existing drains will not be paid for separately, but shall be included in the cost for Concrete Removal.

**LEGEND**

- Partial Depth \* Bridge Deck Repair (For Information Only)
- Full Depth Bridge Deck Repair
- Sidewalk/Curb Structural Repair of Concrete < 5"

**BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Full Depth, Type 2)	Sq. Yd.	4
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	22
Floor Drains	Each	24



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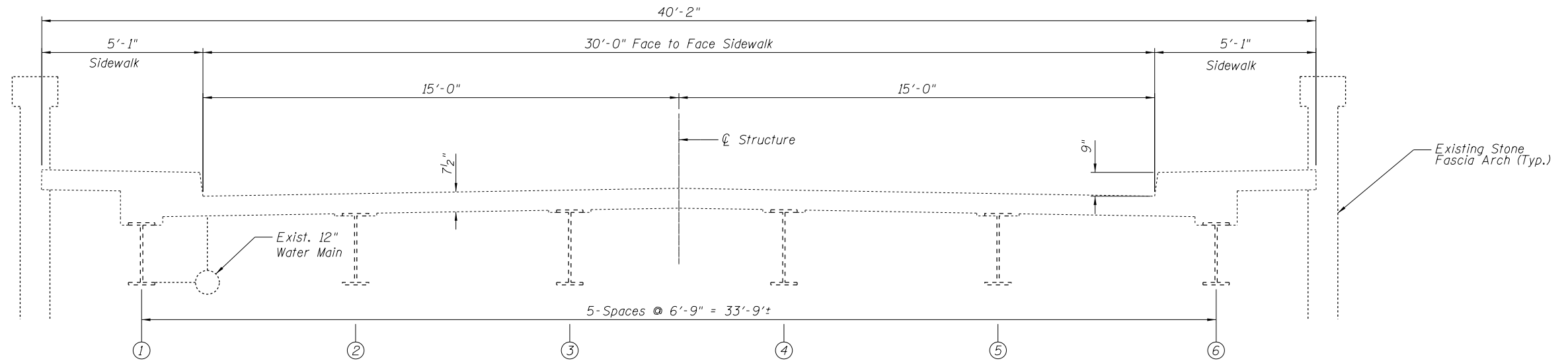
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CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK REPAIRS  
 STRUCTURE NO. 016-0618**

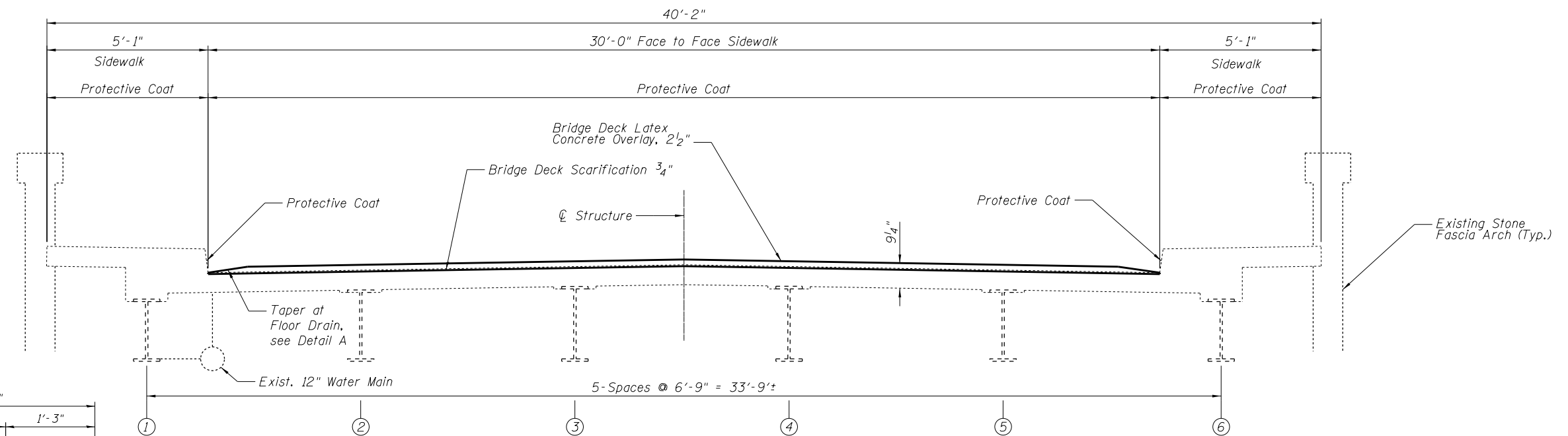
SHEET NO. 2 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	45
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



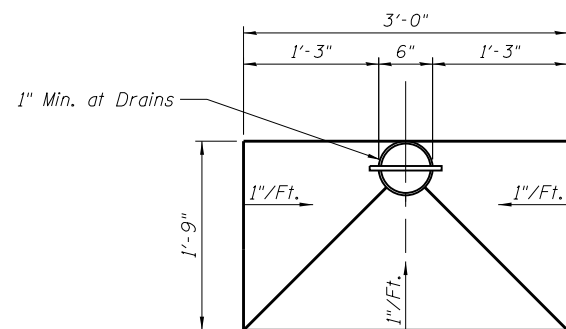
**EXISTING CONSTRUCTION**

(Looking West)



**PROPOSED CONSTRUCTION**

(Looking West)



**DETAIL "A"**  
TOP PLAN

SHOWING OVERLAY TAPER AT FLOOR DRAINS



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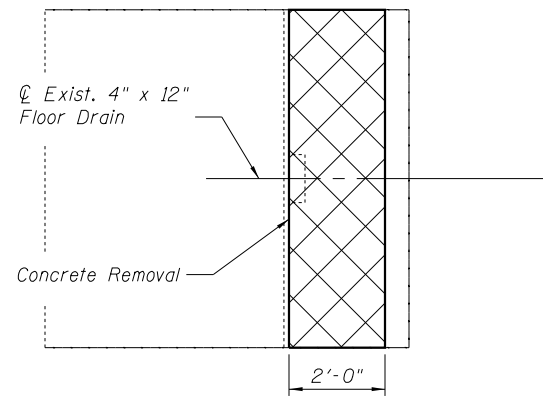
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DRAWN	SCS	REVISED	-
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

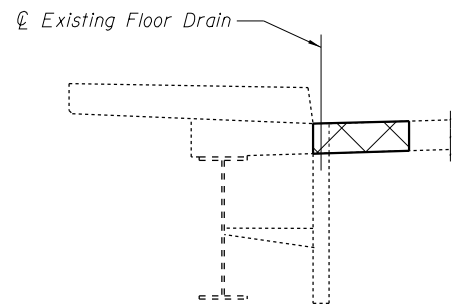
**TYPICAL SECTIONS**  
**STRUCTURE NO. 016-0618**

SHEET NO. 3 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	46
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**PARTIAL PLAN**

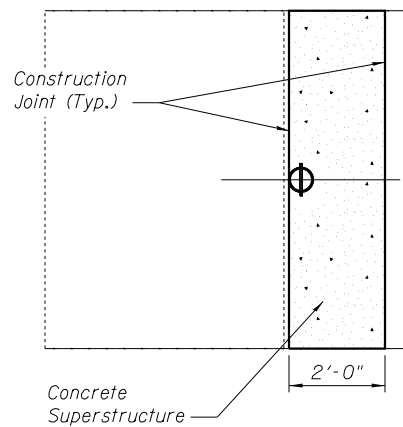


**SECTION AT DRAIN**

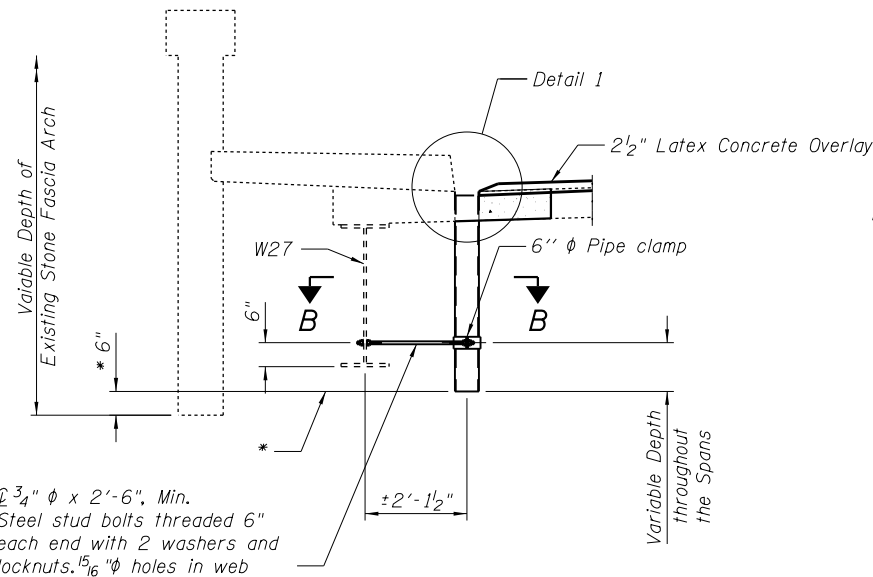
Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut  $\frac{3}{4}$ " prior to the removal of concrete.

**Note:**  
 All existing floor drain brackets that are attached to the webs of the existing beams shall be removed. Cost of removal of the brackets are included in the pay item Concrete Removal.

**EXISTING DRAIN REMOVAL DETAIL**



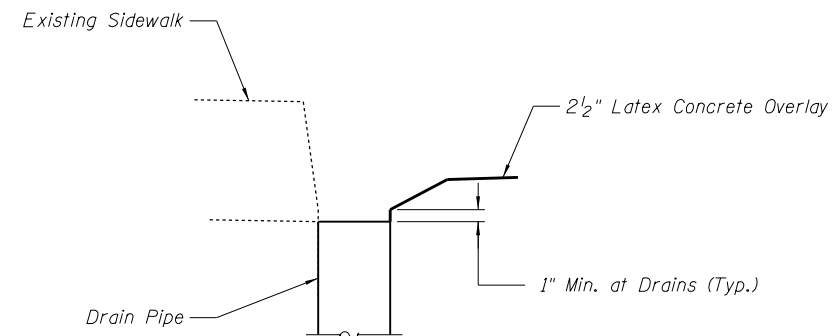
**PARTIAL PLAN**



**SECTION AT DRAIN**

**NEW 6" DRAIN DETAIL**

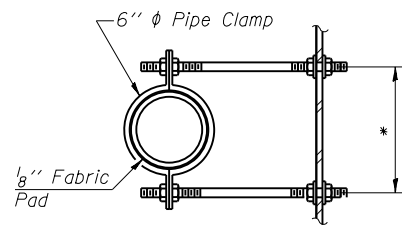
\* The length of each 6"  $\phi$  drain pipe shall be determined by projecting a line perpendicular from the bottom of the stone fascia to a point below each proposed drain pipe.



**DETAIL 1**

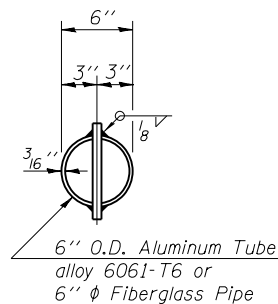
**LEGEND**

	Concrete Removal
	Concrete Superstructure



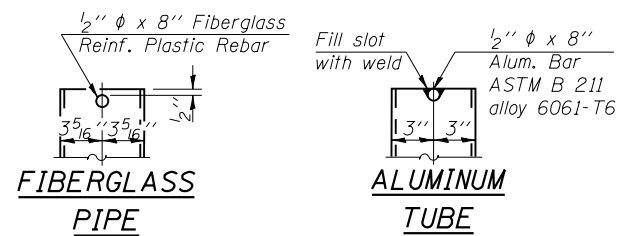
**SECTION B-B**

\* Dimension as required by Pipe Clamp



**TOP PLAN**

(Showing Aluminum Tube)

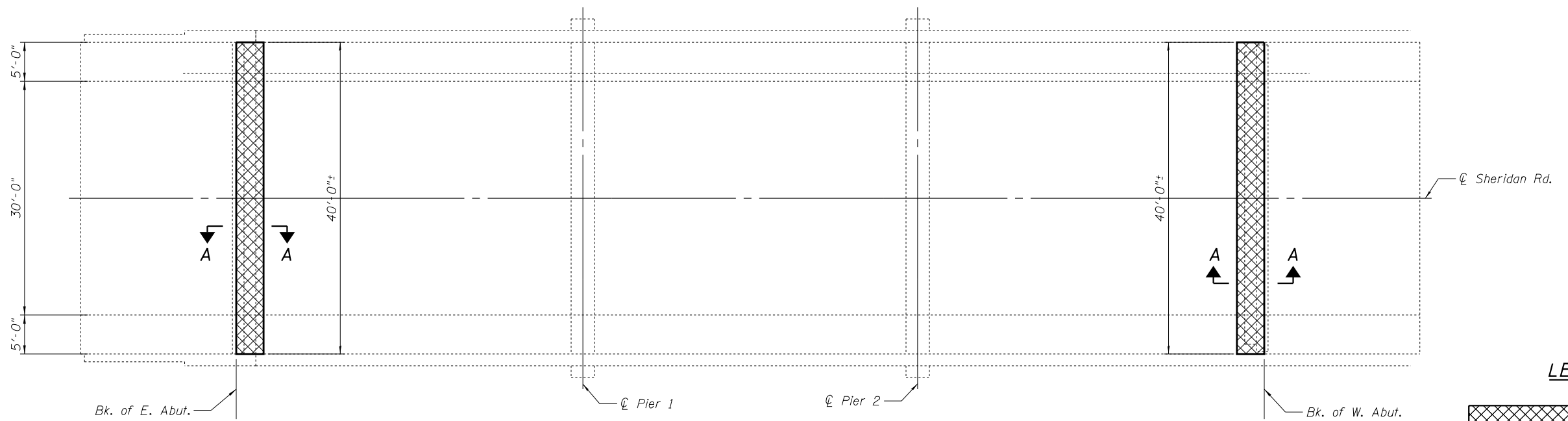
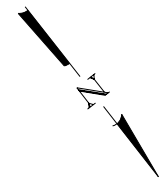


**Notes:**  
 The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Specs. SSPC-SP1 prior to Painting.  
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
 Galvanize clamping device according to AASHTO M 232. Cost of clamping device and inserts is included with Floor Drains.

**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	11.3
Concrete Superstructure	Cu. Yd.	11.3





**PLAN**

**LEGEND**



**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	10.6

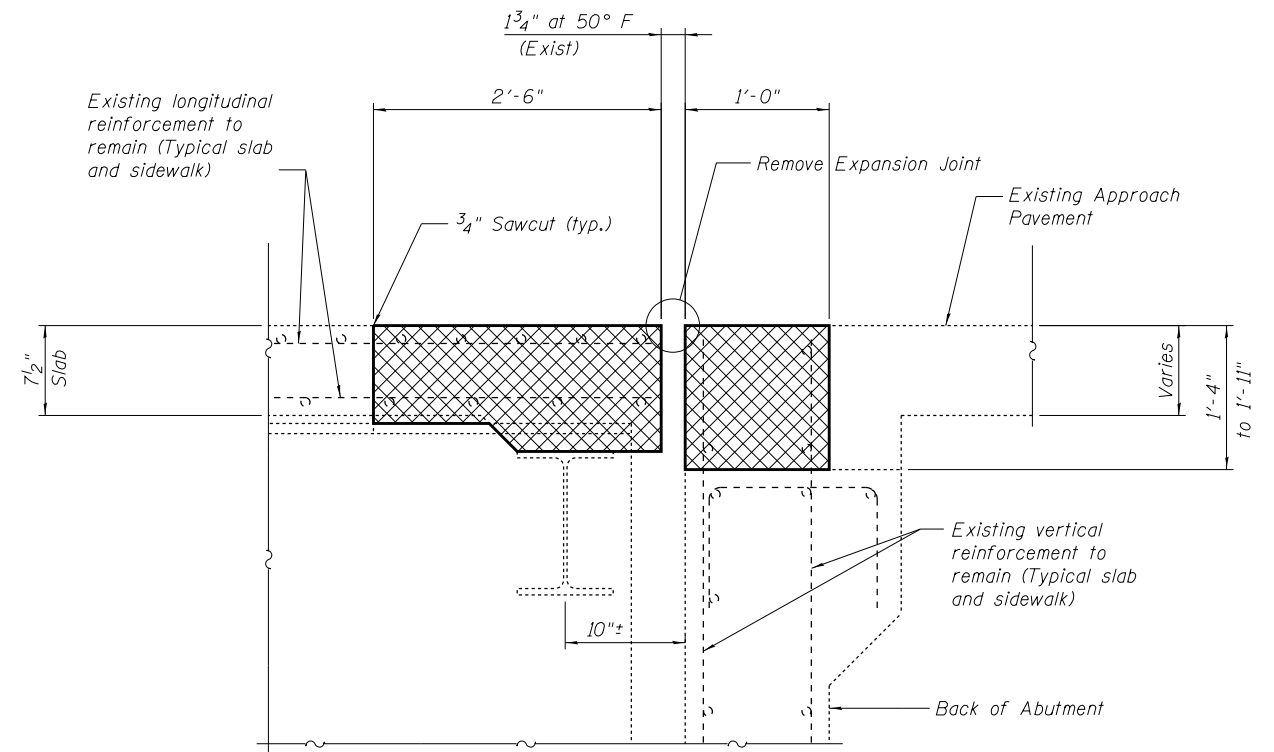
**NOTES**

Removal of the existing expansion joints will not be paid for separately but shall be included in the cost for Concrete Removal.

Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following concrete removal to ensure the existing reinforcement remaining in place is not damaged. All existing reinforcing to be incorporated into new construction shall be blast-cleaned, straightened and properly positioned prior to concrete placement. Any reinforcement damaged during concrete removal shall be repaired or replaced using an approved Mechanical Bar Splicer System. Cost of removal shall be included with pay item for Concrete Removal. Cost of replacement shall be included with pay item for Concrete Superstructure.

Sidewalks shall be removed and replaced within the limits of hatched areas shown. All longitudinal sidewalk reinforcement shall remain in place.

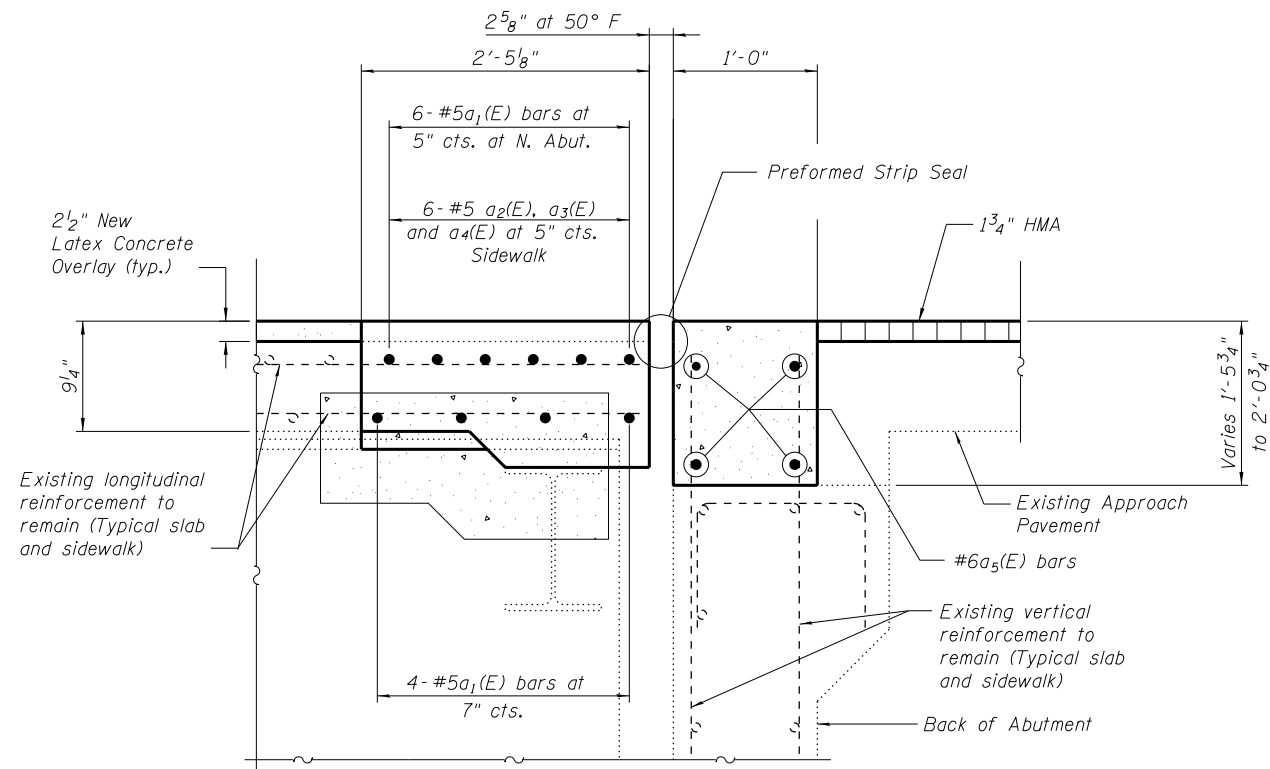
The Contractor shall use extreme care during concrete removal so as not to damage the Steel Wide Flange Beams and the Stone Fascia.



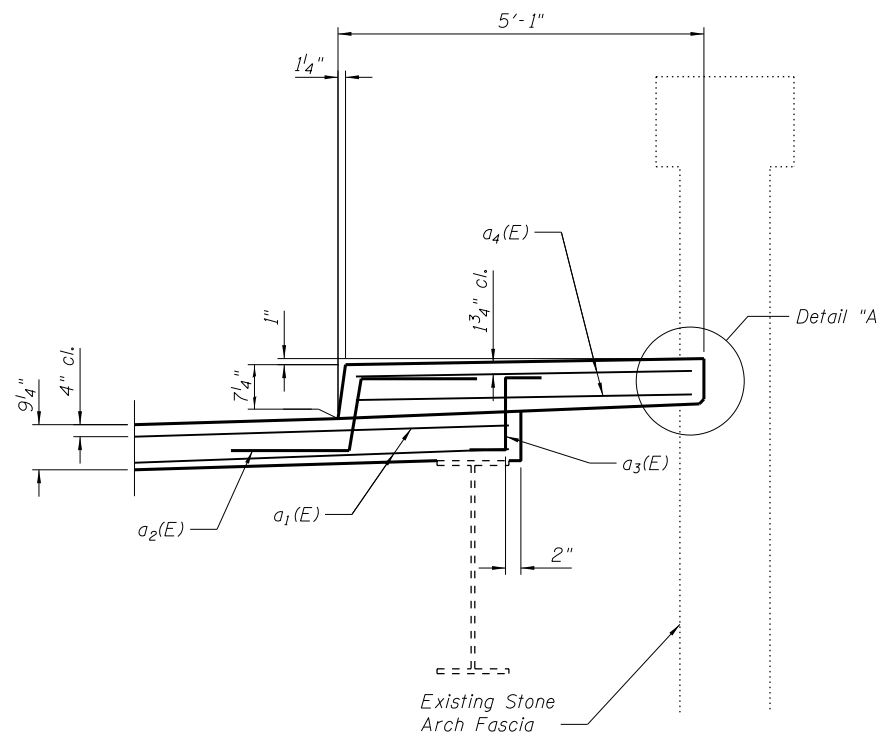
**SECTION A-A**

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CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

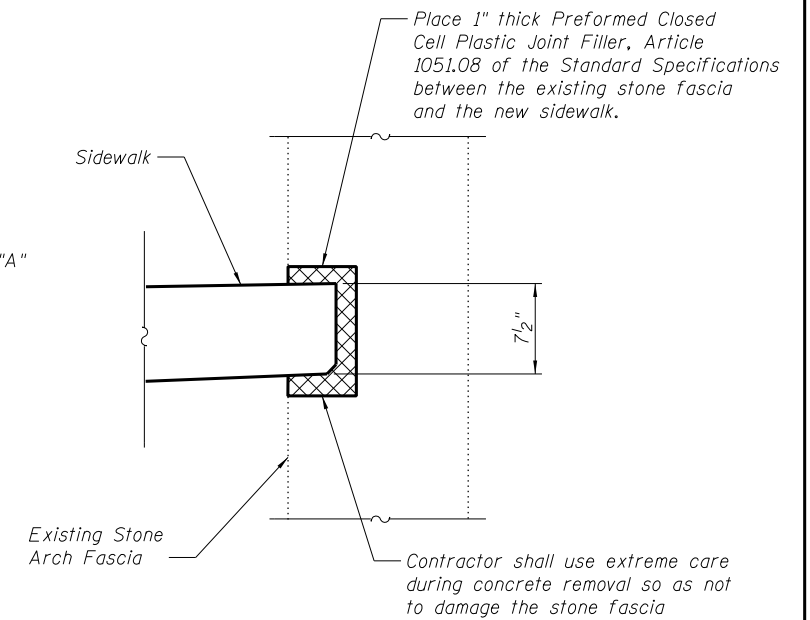
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	48
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION AT EAST AND WEST ABUTMENTS**



**SECTION AT JOINT REPLACEMENT**



**DETAIL "A"**

**NOTES**

The existing 7 1/2" slab shall be scarified 3/4" and then a 2 1/2" thick latex concrete overlay shall be placed on the deck.

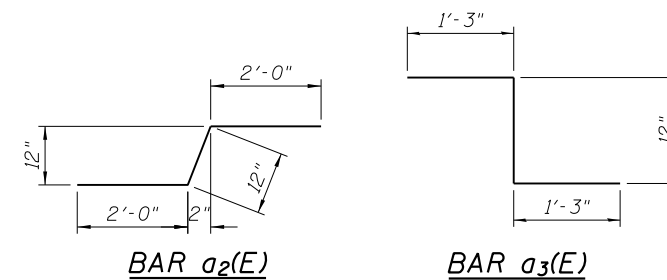
For details of Preformed Joint Strip Seal Expansion Joints, see Sheet No. 7-9.

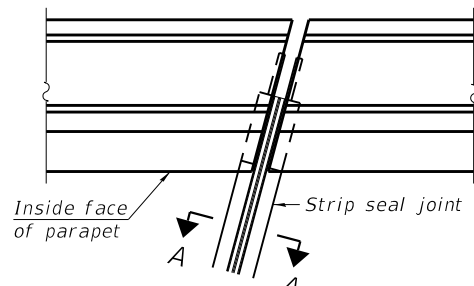
Existing longitudinal sidewalk reinforcement shall remain in place.

Placement of longitudinal reinforcement shall be parallel to roadway.  
 Placement of traverse reinforcement shall be parallel to Abutment or  $\perp$  Pier.

**BILL OF MATERIAL**

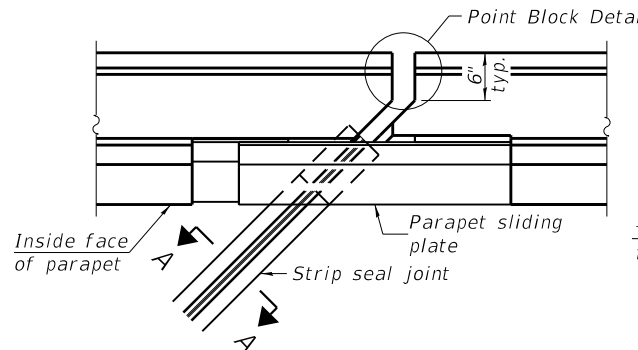
Bar	No.	Size	Length	Shape
a <sub>1</sub> (E)	20	#5	34'-9"	—
a <sub>2</sub> (E)	24	#5	5'-0"	—
a <sub>3</sub> (E)	24	#5	3'-6"	—
a <sub>4</sub> (E)	24	#5	4'-8"	—
a <sub>5</sub> (E)	8	#6	34'-9"	—
Concrete Superstructure			Cu. Yd.	11.7
Reinforcement Bars, Epoxy Coated			Pound	1480



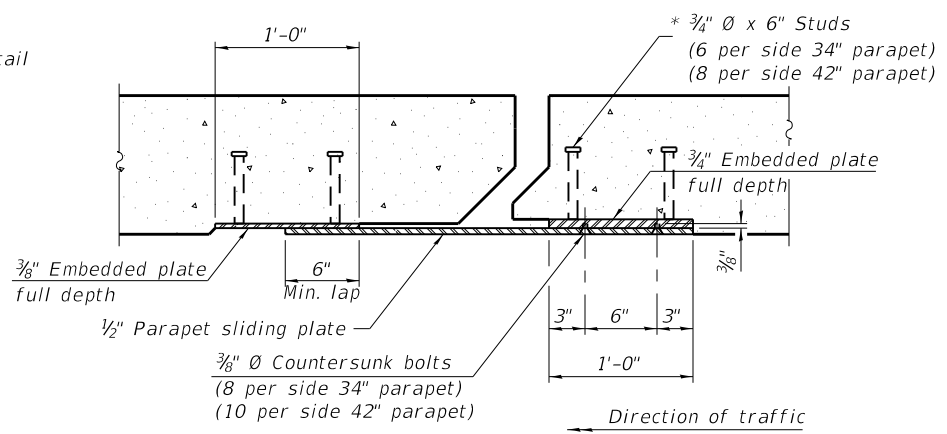


FOR SKEWS ≤ 30°

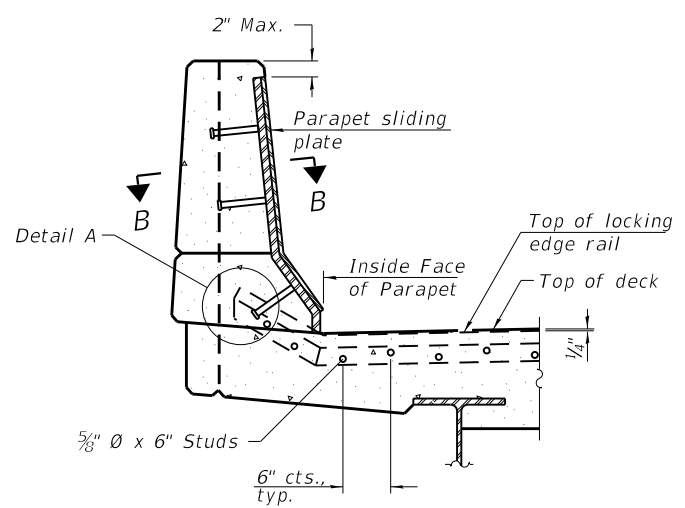
PLAN AT PARAPET



FOR SKEWS > 30°

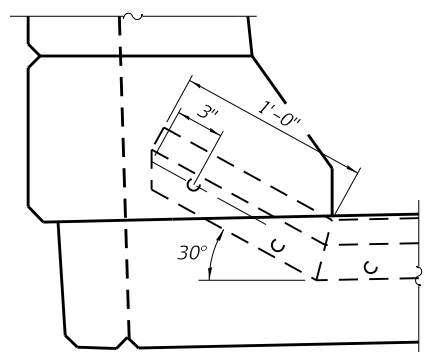


SECTION B-B

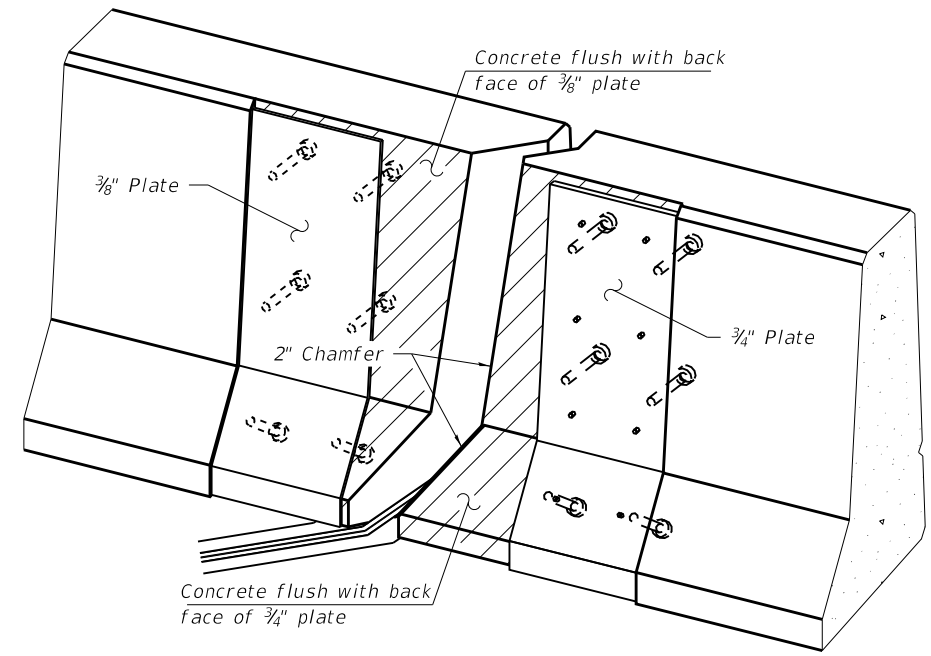


ELEVATION AT PARAPET

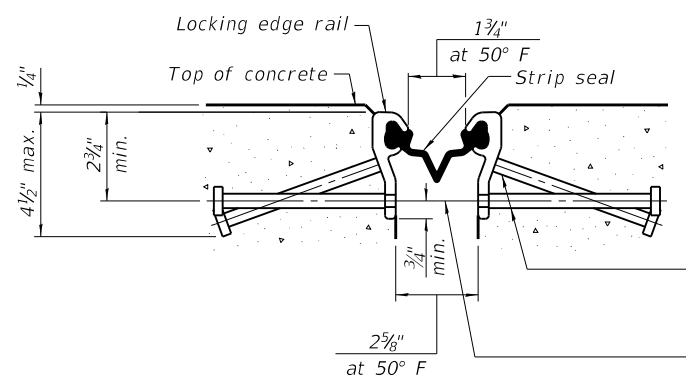
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW (Showing embedded plates only)

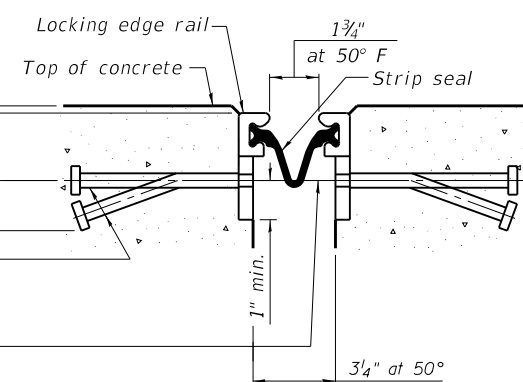


SHOWING ROLLED RAIL JOINT

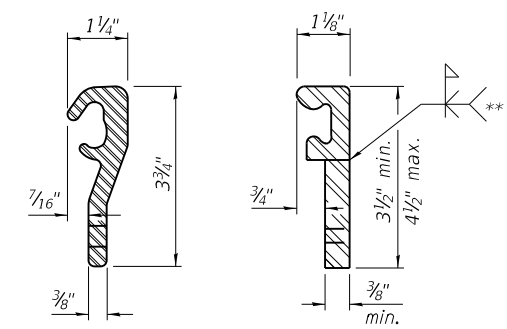
\* 5/8" x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 3/8" φ threaded rods in 7/16" φ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

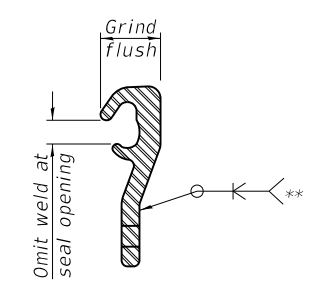


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	76

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8-11-17

(Sheet 1 of 3)

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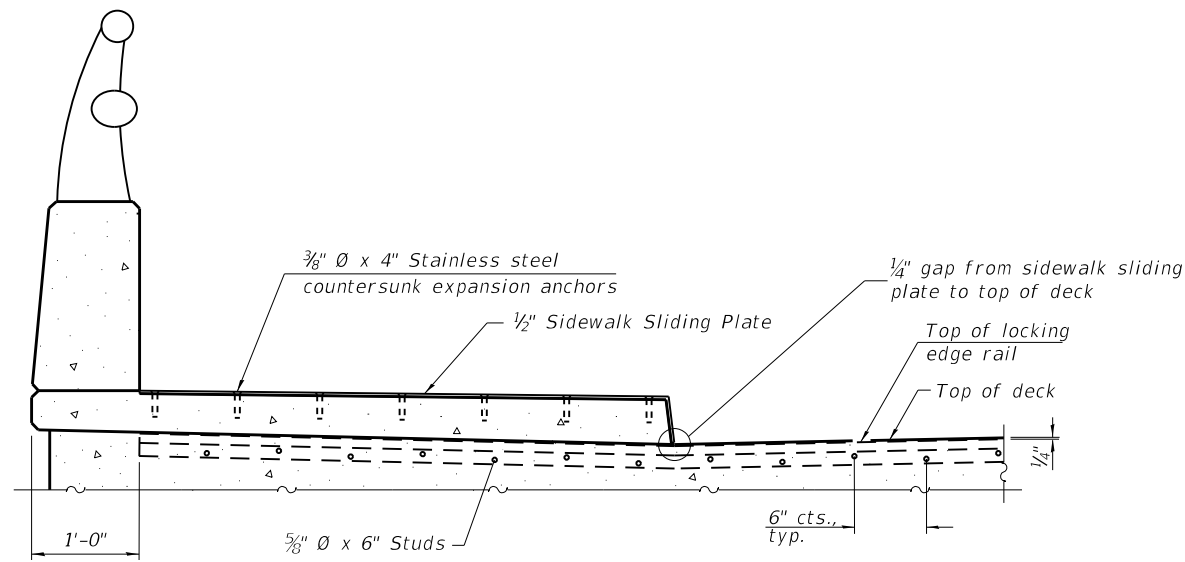
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CHECKED ME	REVISED -
DRAWN SCS	REVISED -
CHECKED SEA	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

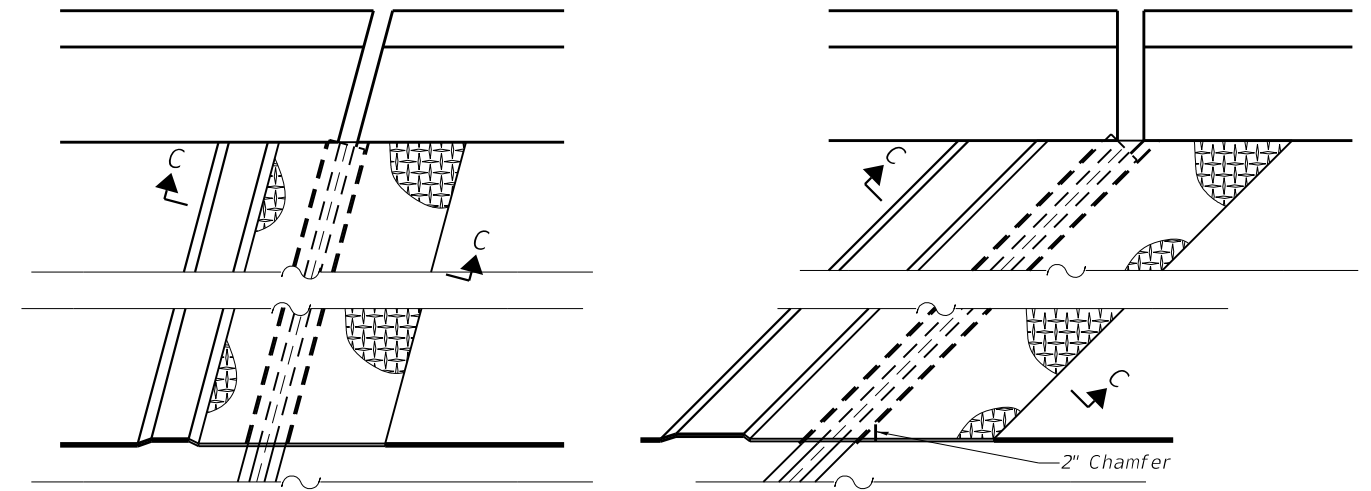
PREFORMED JOINT STRIP SEAL - SIDEWALK  
 STRUCTURE NO. 016-0618

SHEET NO. 7 OF 10 SHEETS

F.A.U. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	50
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



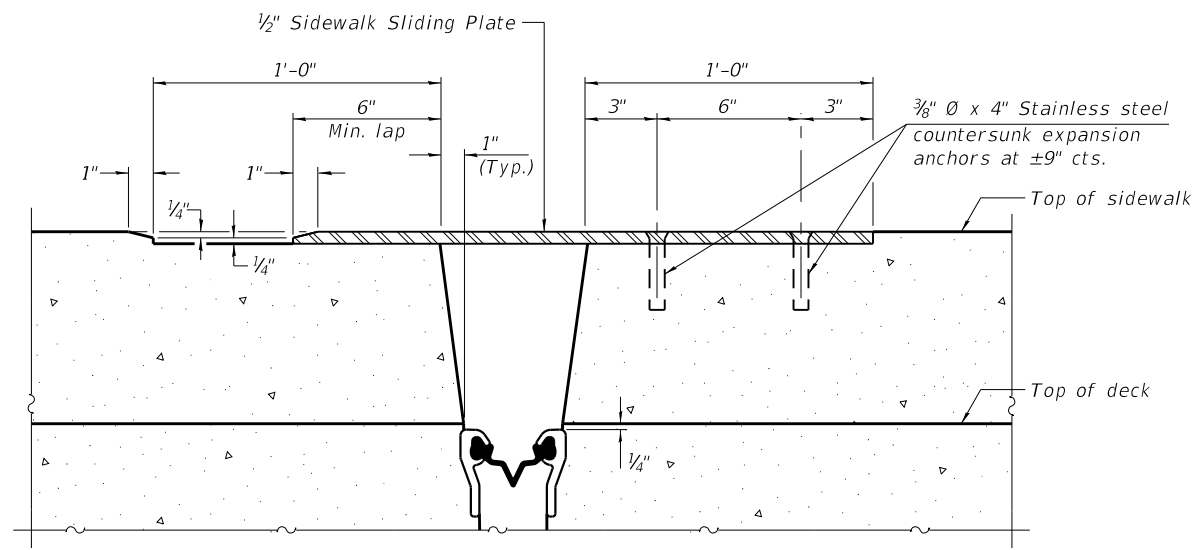
**ELEVATION AT RAISED SIDEWALK**



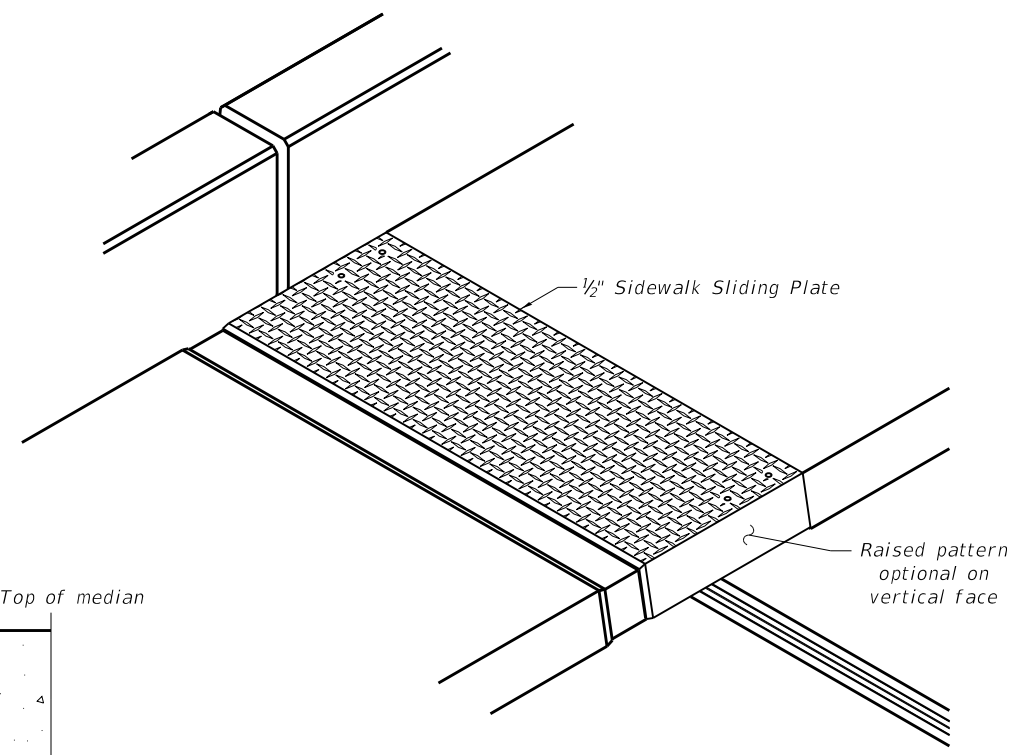
(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

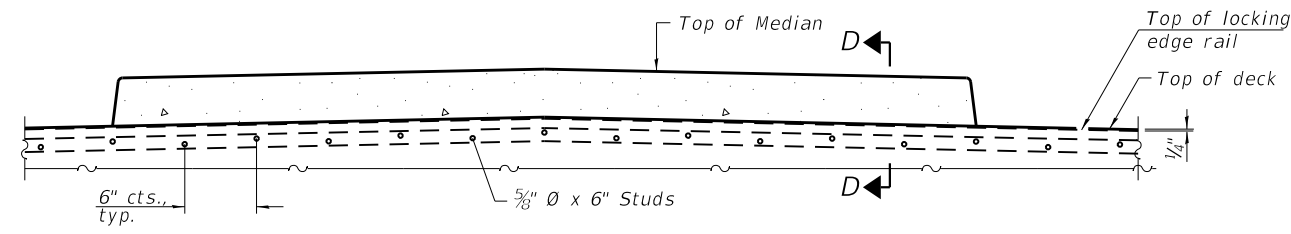
**PLAN AT RAISED SIDEWALK**



**SECTION C-C**

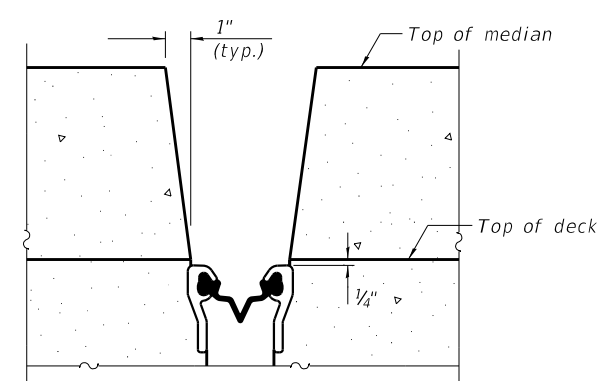


**TRIMETRIC VIEW**



**ELEVATION AT MEDIAN**

For skew > 30°, chamfer acute corners 2" similar to sidewalk.



**SECTION D-D**  
(at Rt. L's)

(Sheet 2 of 3)

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DESIGNED	SEA	REVISED	-
CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

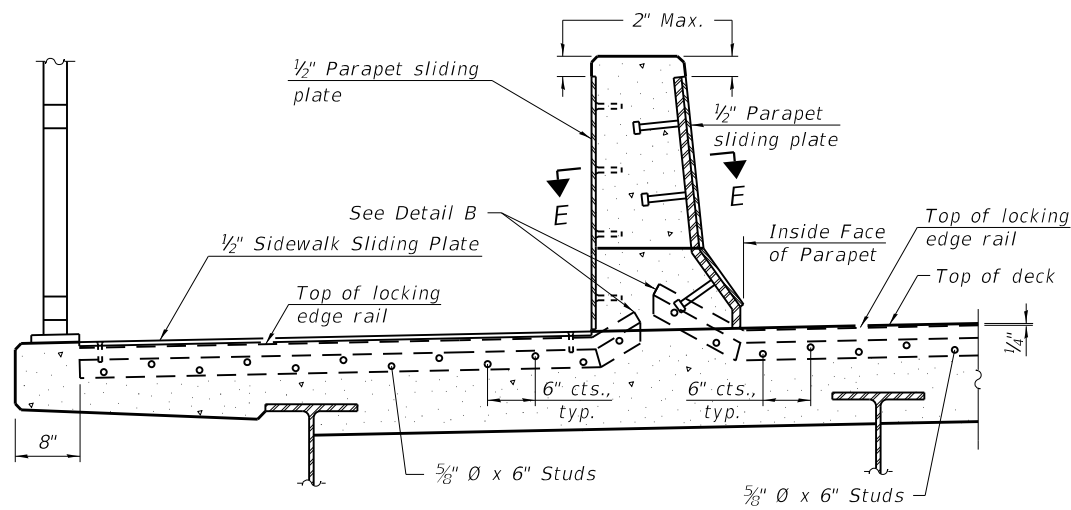
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK**  
**STRUCTURE NO. 016-0618**

SHEET NO. 8 OF 10 SHEETS

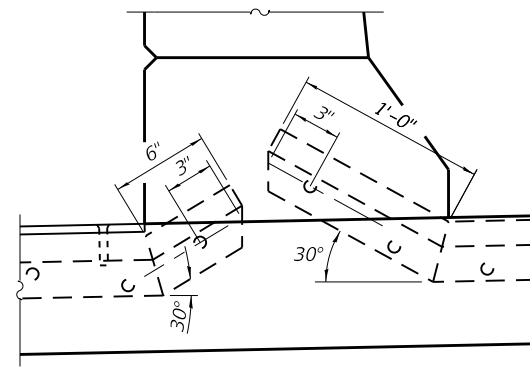
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	51
STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

3/16/2019 11:04:28 AM j:\2018\6060\CAD\_Sheets\Exist\016-0618-09 Strip Seal.dgn

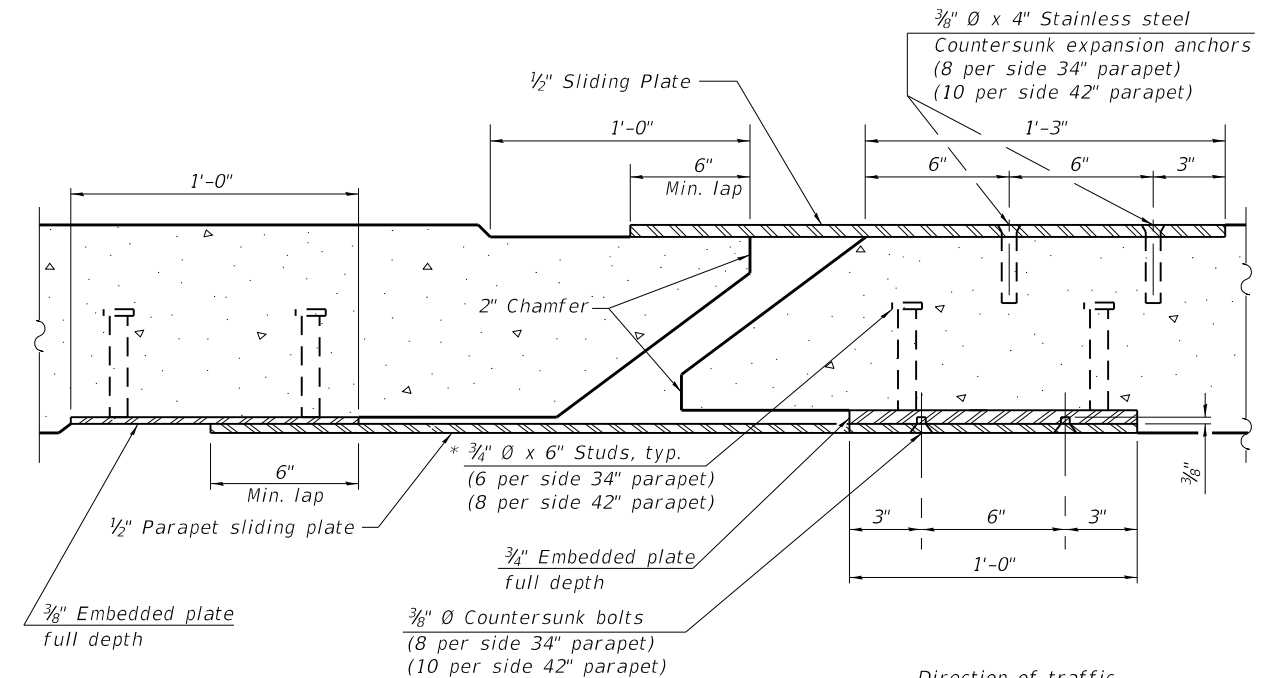


**ELEVATION AT DECK LEVEL SIDEWALK**

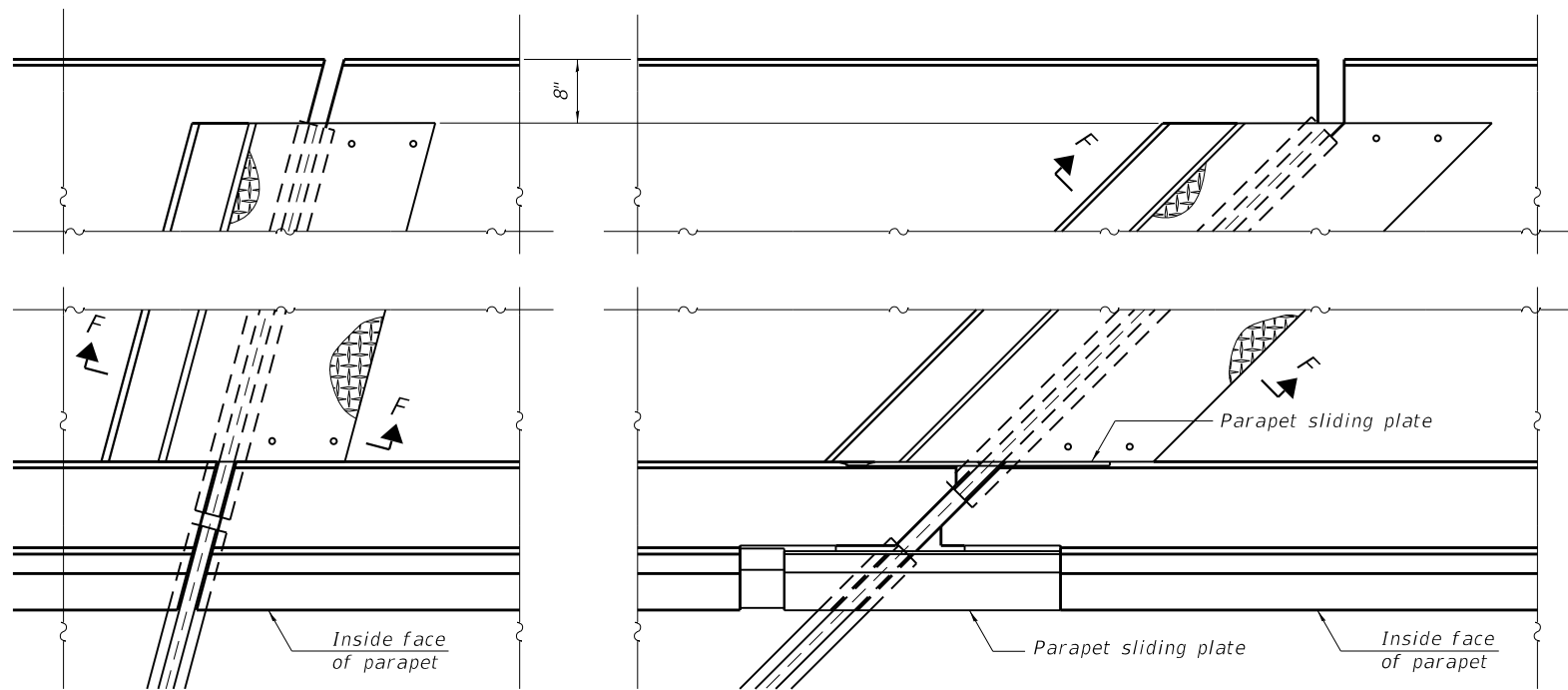
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL B**



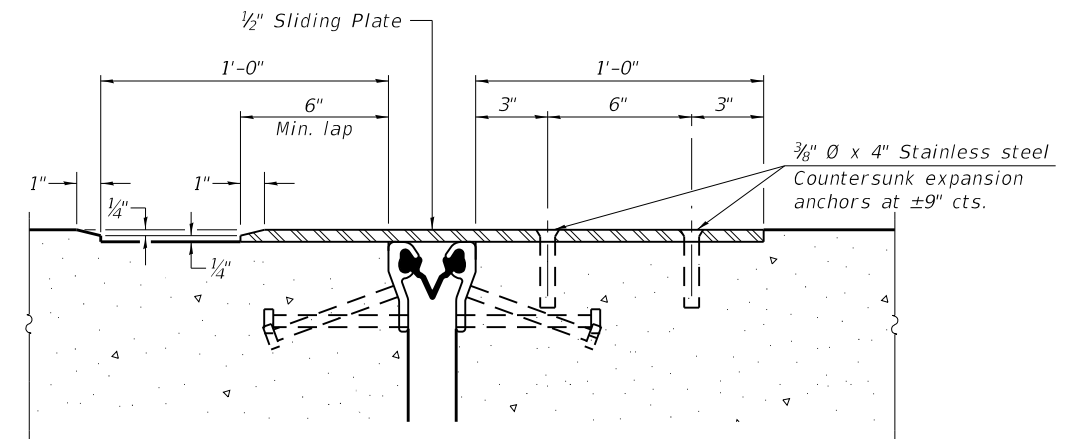
**SECTION E-E**



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

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(Sheet 3 of 3)



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DESIGNED SEA  
 CHECKED ME  
 DRAWN SCS  
 CHECKED SEA

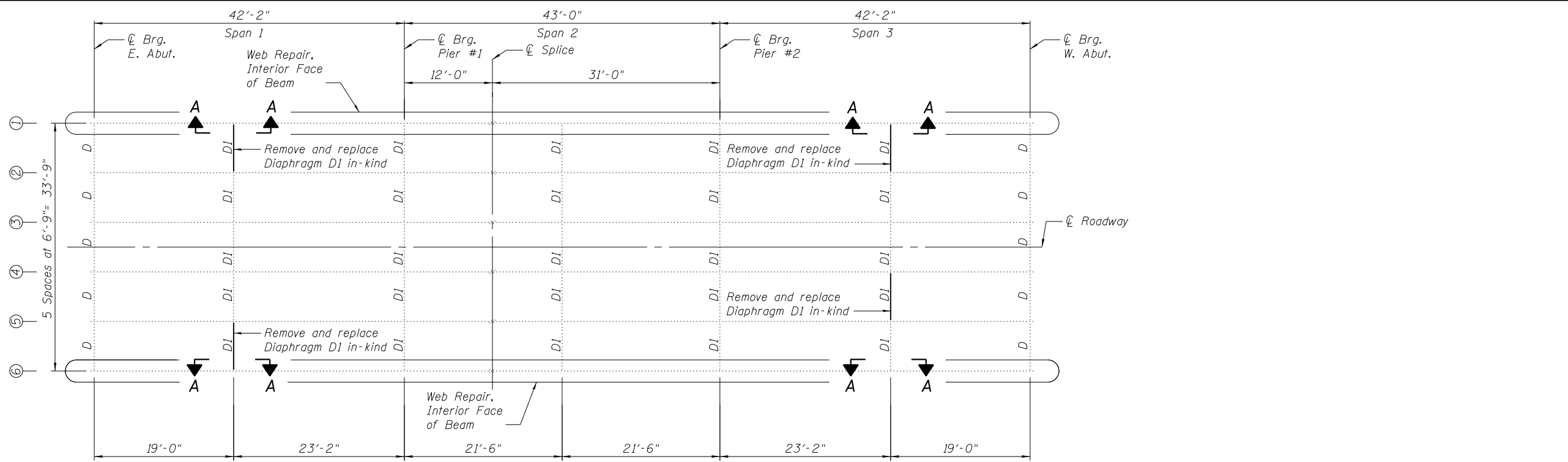
REVISED -  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

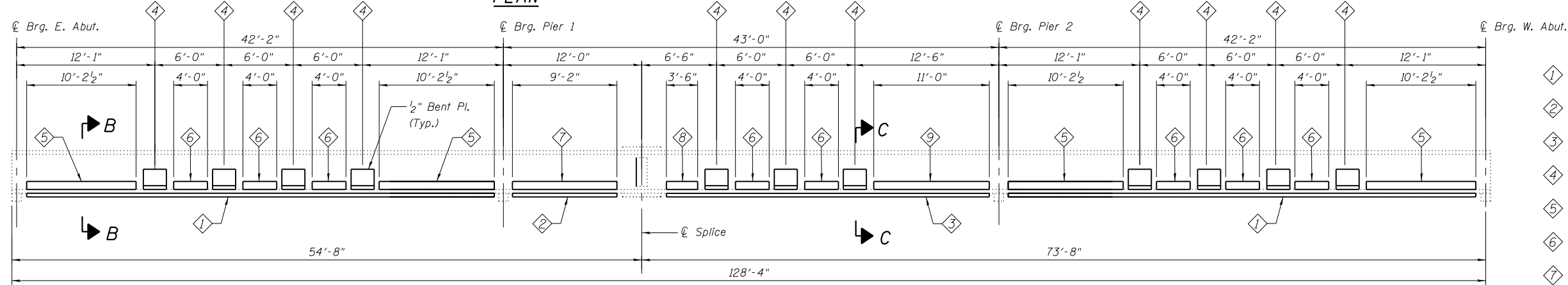
**PREFORMED JOINT STRIP SEAL - SIDEWALK**  
**STRUCTURE NO. 016-0618**

SHEET NO. 9 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	52
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

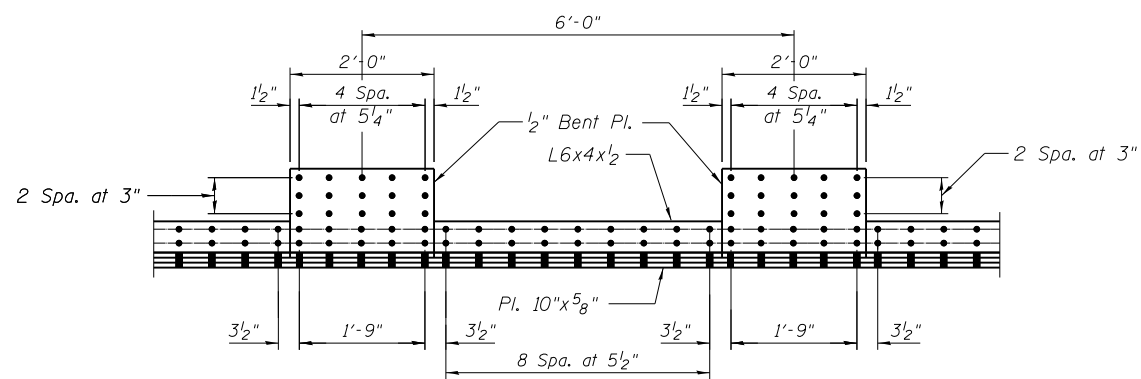


**PLAN**

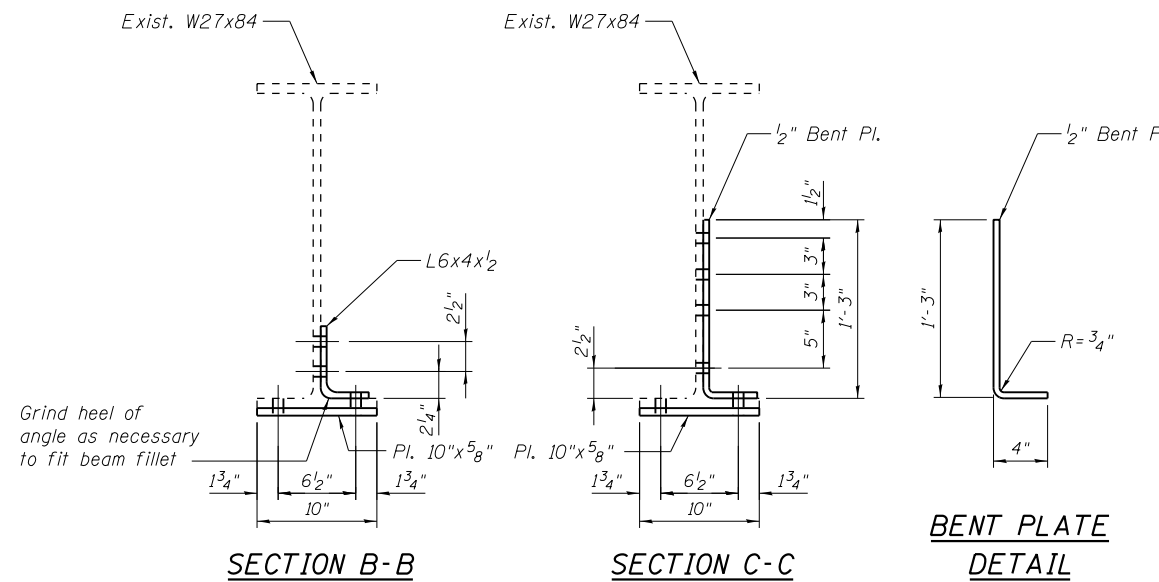


**GIRDER ELEVATION**

- ① Pl. 10"x5/8" x 40'-5"
- ② Pl. 10"x5/8" x 9'-2"
- ③ Pl. 10"x5/8" x 28'-3"
- ④ Bent Pl. 2'-0" x 1/2" x 1'-7"
- ⑤ L6x4x1/2 x 10'-2 1/2"
- ⑥ L6x4x1/2 x 4'-0"
- ⑦ L6x4x1/2 x 9'-2"
- ⑧ L6x4x1/2 x 3'-6"
- ⑨ L6x4x1/2 x 11'-0"



**TYPICAL BOLTING PATTERN**



**SECTION B-B**

**SECTION C-C**

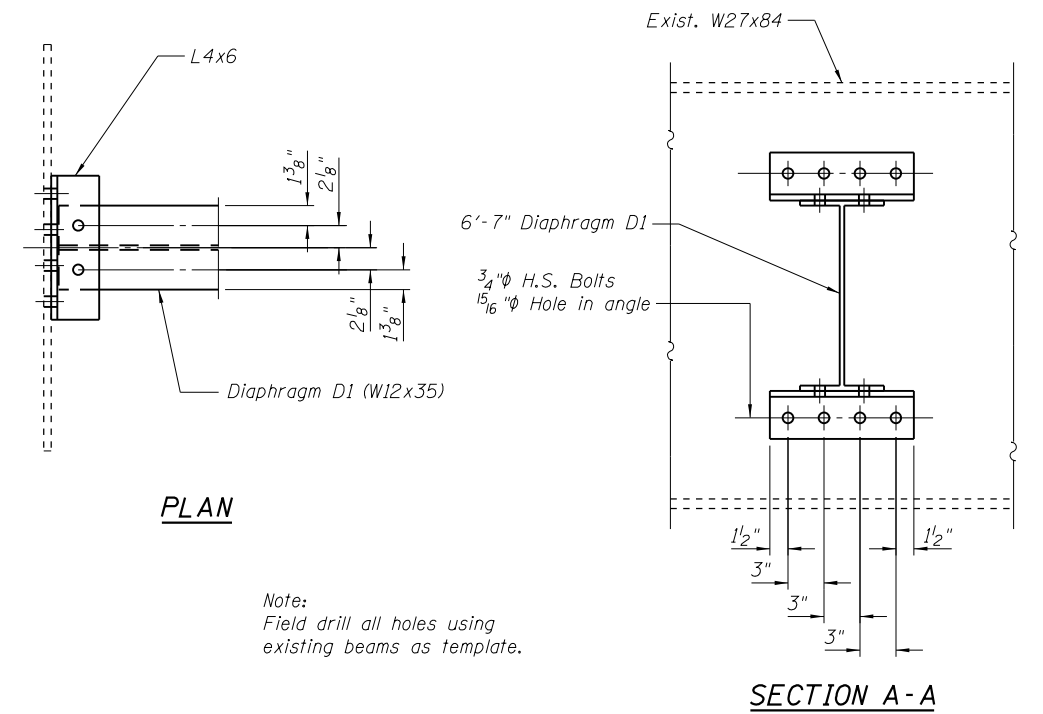
**BENT PLATE DETAIL**

Note:  
 For Section A-A Diaphragm Details, see Sheet 53A.  
 Field drill holes using pieces as a template.  
 All steel repair on this sheet are Primary Members.

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	1290*
Structural Steel Repair	Pound	11,500**
Structural Steel Removal	Pound	1240*

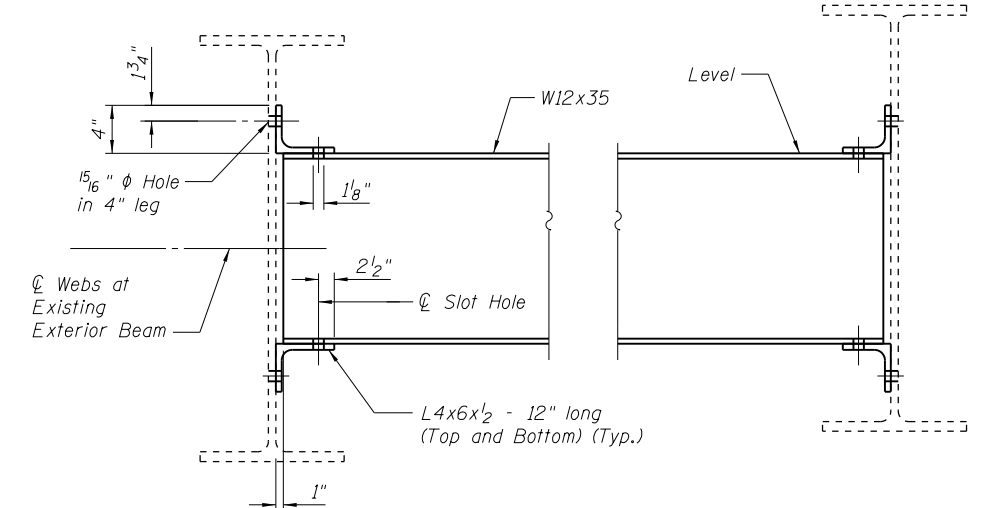
\* Includes Diaphragms, Angles and Fasteners.  
 \*\* Includes Bottom Flange and Web Repairs.



**PLAN**

Note:  
Field drill all holes using  
existing beams as template.

**SECTION A - A**



**ELEVATION**

**INTERIOR DIAPHRAGM D1**

Existing & Proposed  
4 Required

Note:  
For Framing Plan and Section locations,  
see Sheet 53.

**ABNA**  
DESIGN FIRM REG. 184.002117

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CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STEEL REPAIRS  
STRUCTURE NO. 016-0618**

SHEET NO. 10A OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	53A
STA.	TO STA.	CONTRACT NO. 60R80		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

5/7/2019 10:06:42 PM J:\2018\6060\CAD\_Sheets\Exist\_dgn\016-0619-01-Gen\_Plan and Elev.dgn

**Existing Structure:**  
 Existing Structure No. 016-0619 was built in 1923 as SBI 42 Section 112.  
 In 1979, under FAU 3509 Section 112-BR, the superstructure was replaced.  
 Existing Structure is a single span reinforced concrete slab on steel beams  
 between closed abutments, 53'-0" bk. to bk. abutments, 40'-2" out to out deck.  
 Bridge will be closed to traffic during construction.

Salvage: None

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 Bridge Deck Repairs
- 3 Typical Sections
- 4 Floor Drain Details
- 5 Expansion Joint Removal
- 6 Expansion Joint Repair
- 7-9 Preformed Joint Strip Seal - Sidewalk
- 10 Framing Plan and Steel Repairs

**SCOPE OF WORK**

- 1 Remove and replace expansion joint at north abutment.
- 2 Repair deck slab
- 3 Remove and Patch Existing Floor Drains as Noted
- 4 Remove and replace floor drains with 6" circular pipe.
- 5 Scarify 3/4" deck surface and Place new 2 1/2" overlay on deck.
- 6 Apply Protective Coat to inside and top faces of sidewalk and new concrete at joints, rails and overlay areas.
- 7 Steel Repairs
- 8 Polymer concrete nosing

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	5.3
Floor Drains	Each	4
Concrete Superstructure	Cu. Yd.	5.8
Bridge Deck Grooving	Sq. Yd.	159
Protective Coat	Sq. Yd.	245
Furnishing and Erecting Structural Steel	Pound	1490
Reinforcement Bars, Epoxy Coated	Pound	740
Structural repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	26
Preformed Joint Strip Seal	Foot	38
Bridge Deck Scarification 3/4"	Sq. Yd.	162
Structural Steel Removal	Pound	1490
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	162
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	1
Deck Slab Repair (Full Depth, Type 2)	Sq. Yd.	5
Polymer Concrete	Cu. Ft.	1.3
Stone Parapet Repair	Sq. Ft.	19
Structural Steel Repair	Pound	750

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

Fasteners shall be high strength bolts 7/8" φ, holes 1 1/16" φ, unless otherwise noted.

All structural steel shall be AASHTO M270 Grade 50 except the expansion joint plates shall be AASHTO M270 Grade 36.

All steel components (repair plates, angles, and new diaphragms) shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

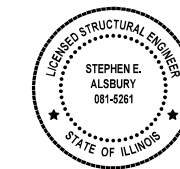
Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with the concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F. Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay, see Special Provisions.

All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel".

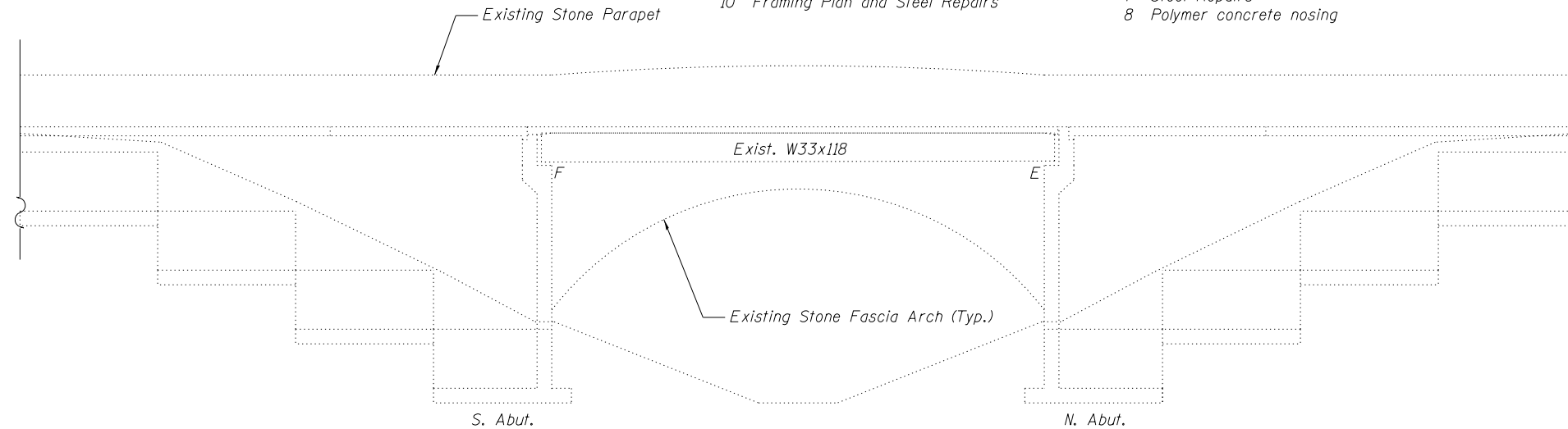
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".



I hereby certify that these plans were prepared by me or under my direct personal supervision and that I am a duly licensed structural engineer under the laws of the State of Illinois.

*Stephen E. Alsbury* DATE: 05-07-2019  
 Stephen E. Alsbury S.E. #5261  
 LICENSE EXP. 11-30-2020

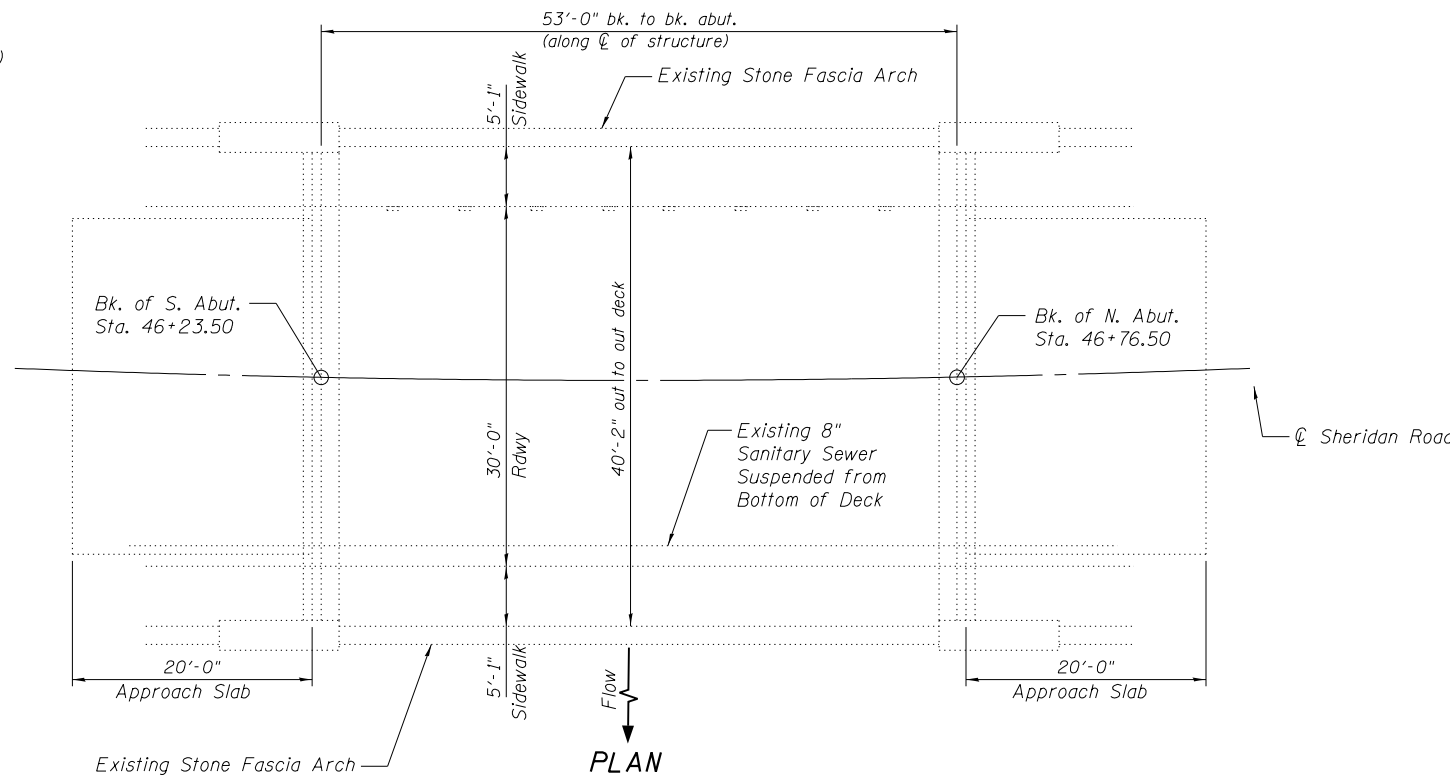


**ELEVATION**

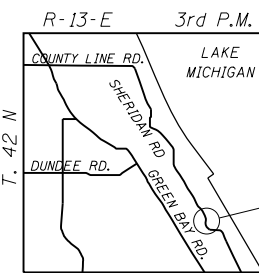
**DESIGN STRESSES**

(New Work)

- f'c = 3,500 psi
- fy = 60,000 psi (Reinforcement)
- fy = 50,000 psi (Structural Steel)



**PLAN**



**LOCATION SKETCH**

Note:  
 As directed by the Engineer, existing construction accessories welded to the top flange of the beams shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications

**ABNA**  
 DESIGN FIRM REG. 184.002117  
 9901 S. Western Ave.  
 Chicago, IL 60643  
 Ph. 773-881-4788  
 F: 773.239.3728

DESIGNED	SEA	REVISED	-
CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

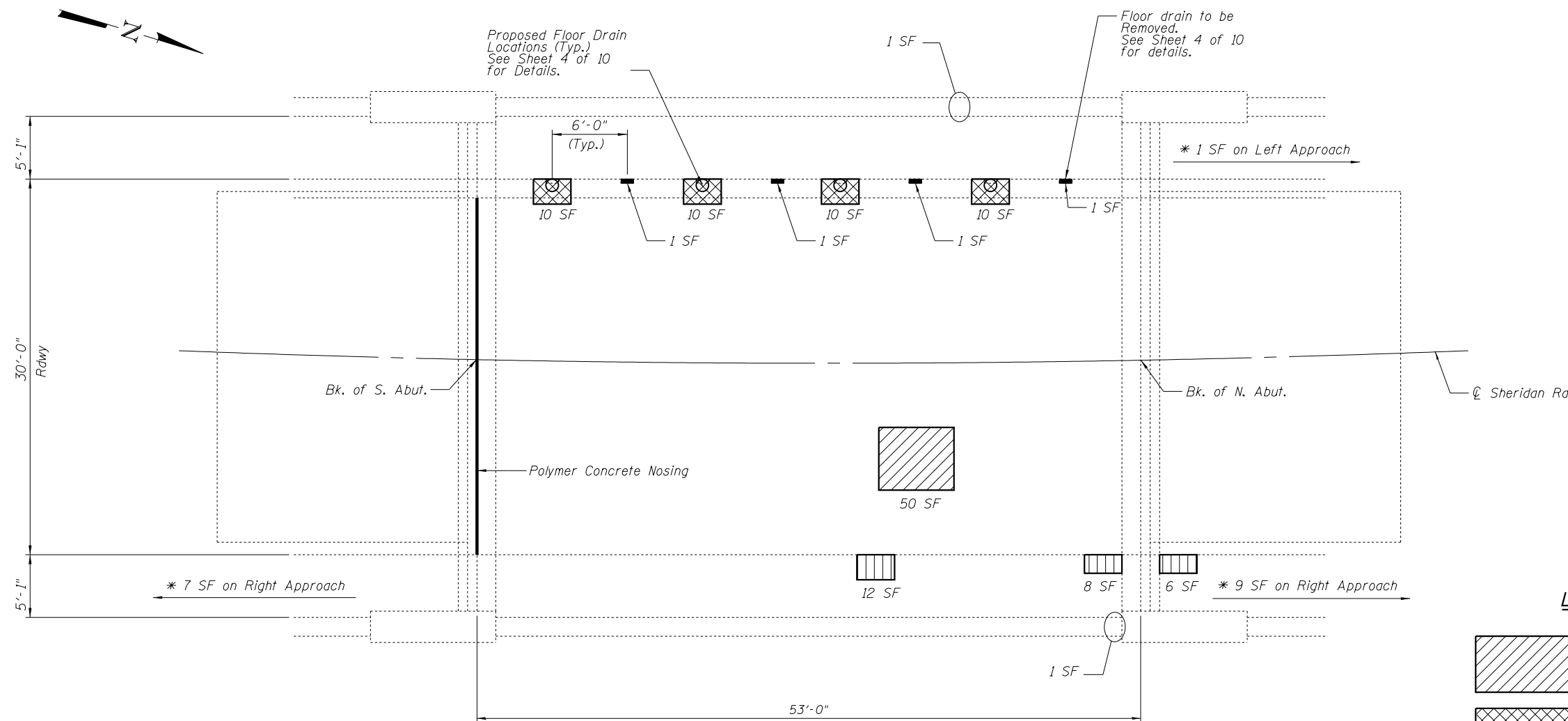
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 016-0619**


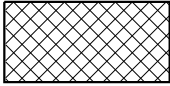



SHEET NO. 1 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	54
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



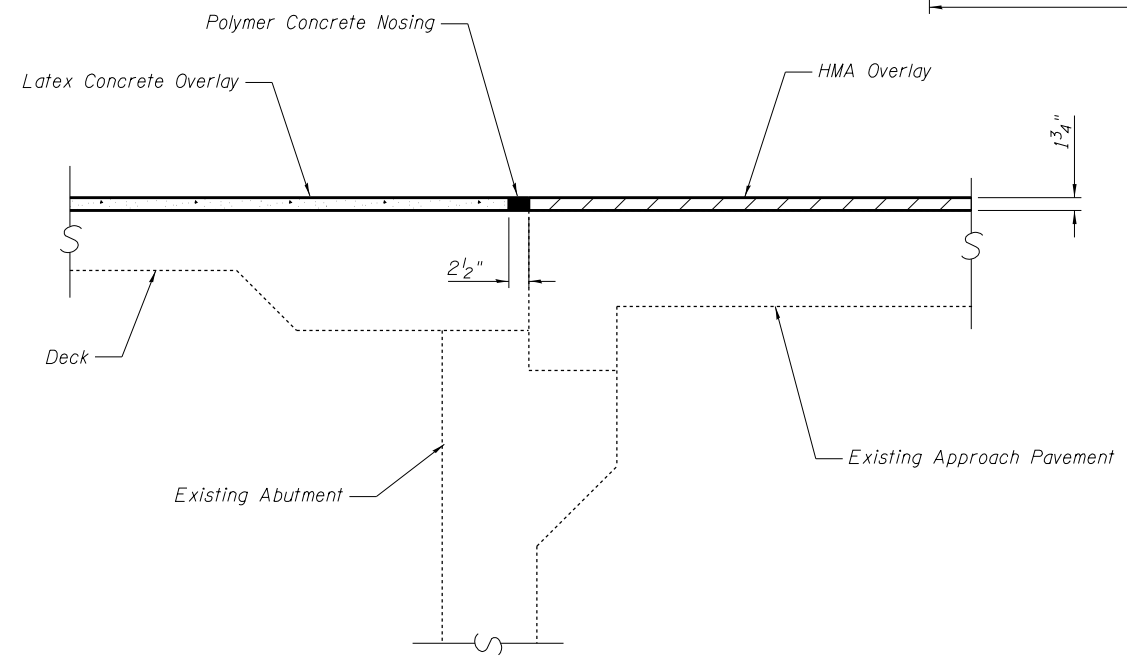


**LEGEND**

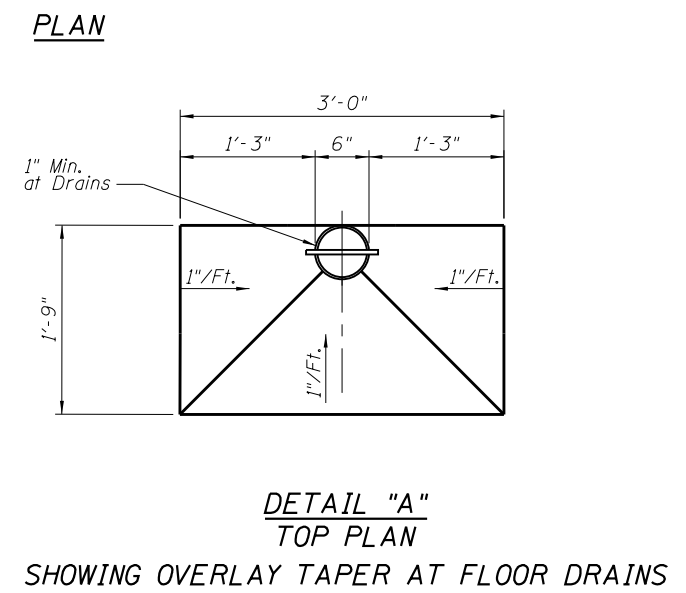
-  Partial Depth Bridge Deck Repair (For Information Only on Areas Receiving Scarification)
-  Full Depth Bridge Deck Repair
-  Sidewalk/Curb Structural Repair of Concrete < 5"
-  Existing 4"x12" Floor Drain to be Removed with Full Depth Patch
-  Stone Parapet Repair Street Face

**BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Full Depth, Type 1)	Sq. Yd.	1
Floor Drains	Each	4
Deck Slab Repair (Full Depth, Type 2)	Sq. Yd.	5
Structural Repair of Concrete Depth Equal to or Less than 5"	Sq. Ft.	26
Stone Parapet Repair *	Sq. Ft.	19



**OVERLAY TREATMENT AT SOUTH ABUTMENT**



\* See Approach Road Patching for Locations of Stone Parapet Repair on Approaches.

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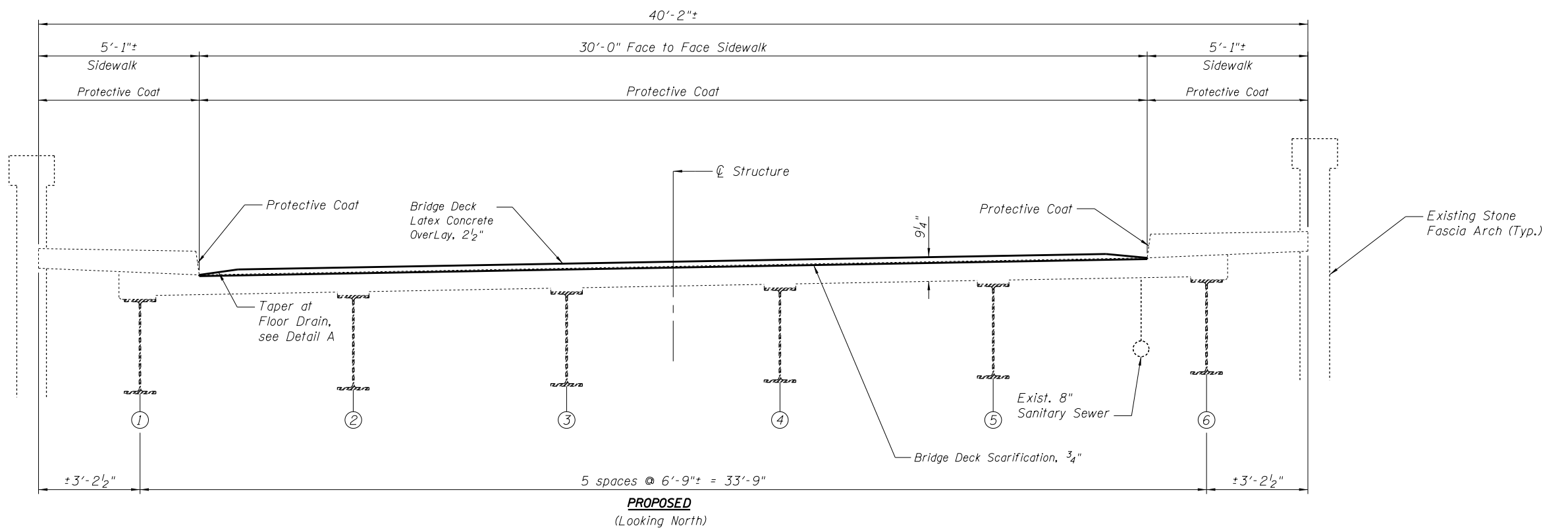
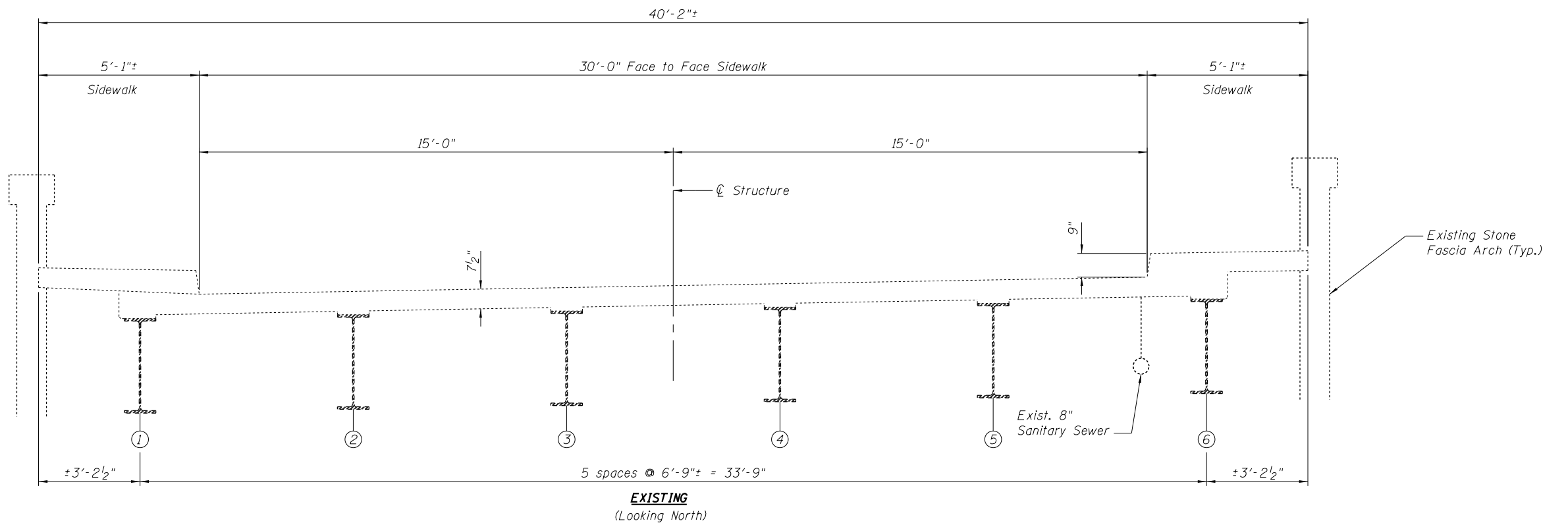
9901 S. Western Ave.  
Chicago, IL 60643  
Ph. 773-881-4788  
F: 773.239.3728

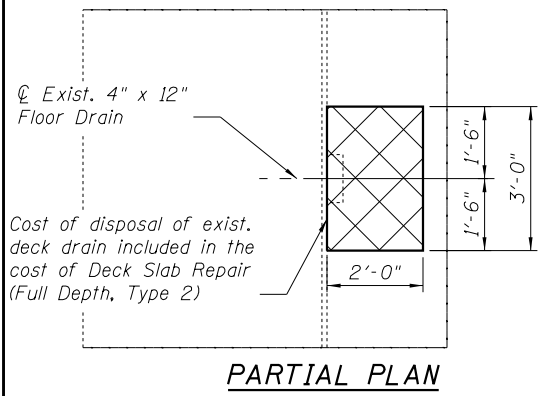
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CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

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

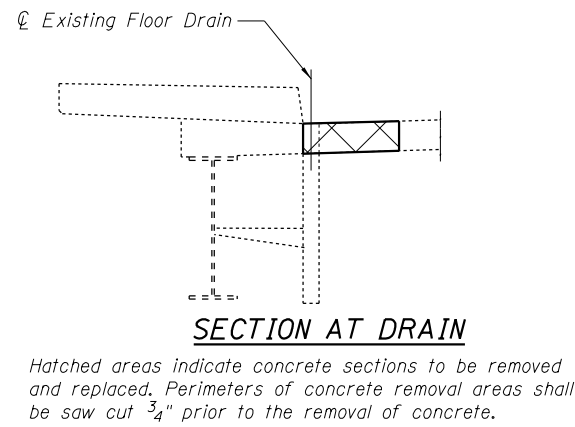
**BRIDGE DECK REPAIRS**  
**STRUCTURE NO. 016-0619**  
SHEET NO. 2 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	55
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

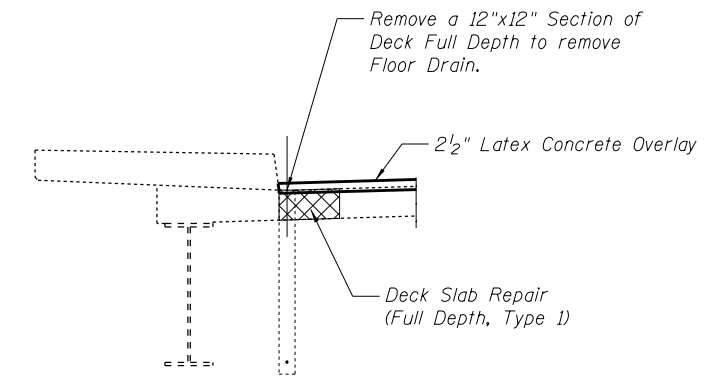




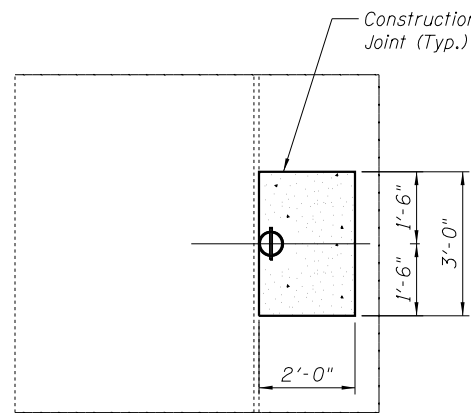
**EXISTING DRAIN REMOVAL DETAIL**



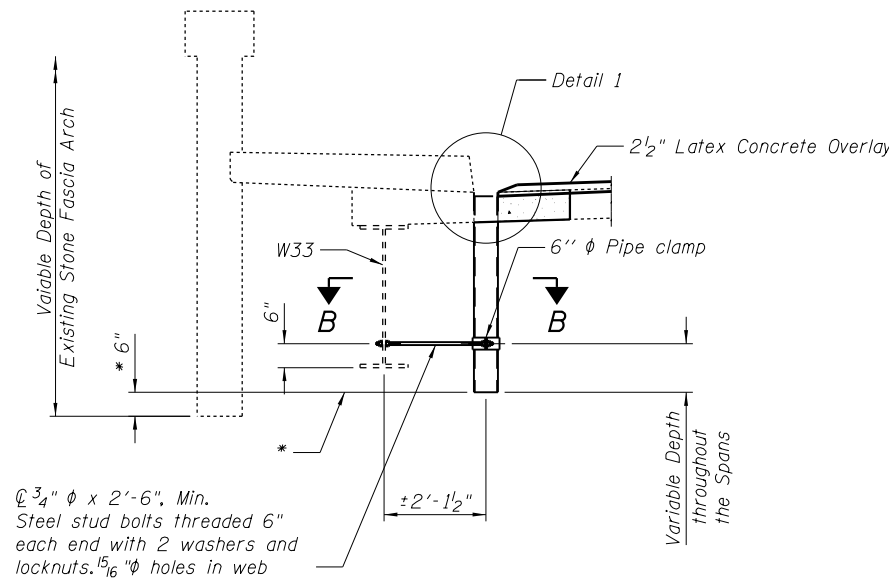
**Note:**  
 All existing floor drain brackets that are attached to the webs of the existing beams shall be removed. Cost of removal of the brackets are included in the pay item Deck Slab Repair (Full Depth, Type 2).



**EXISTING DRAIN ELIMINATION DETAIL**



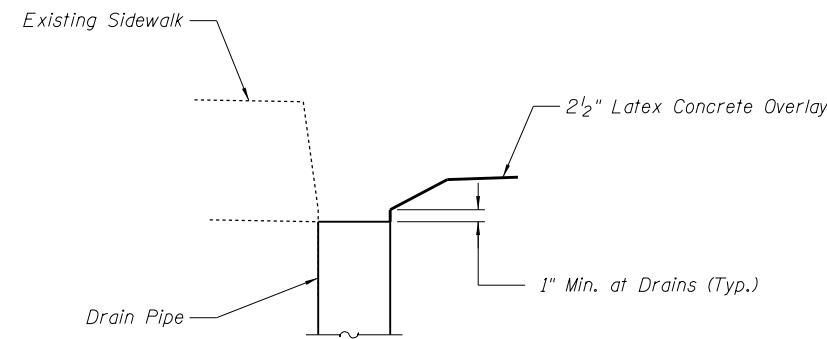
**PARTIAL PLAN**



**SECTION AT DRAIN**

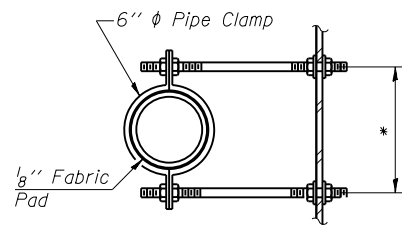
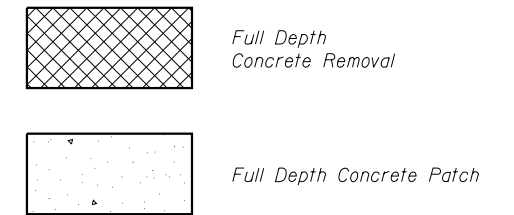
**NEW 6" DRAIN DETAIL**

\* The length of each 6" φ drain pipe shall be determined by projecting a line perpendicular from the bottom of the stone fascia to a point below each proposed drain pipe.



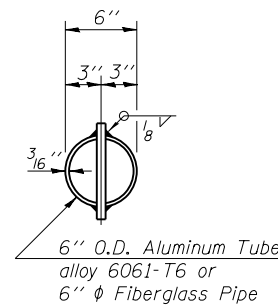
**DETAIL 1**

**LEGEND**



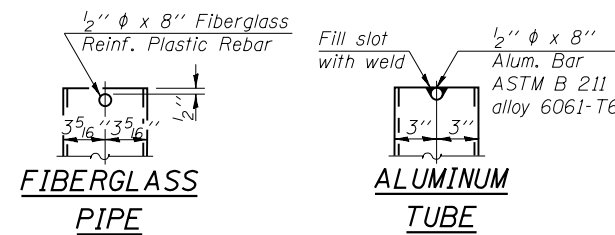
**SECTION B-B**

\* Dimension as required by Pipe Clamp



**TOP PLAN**

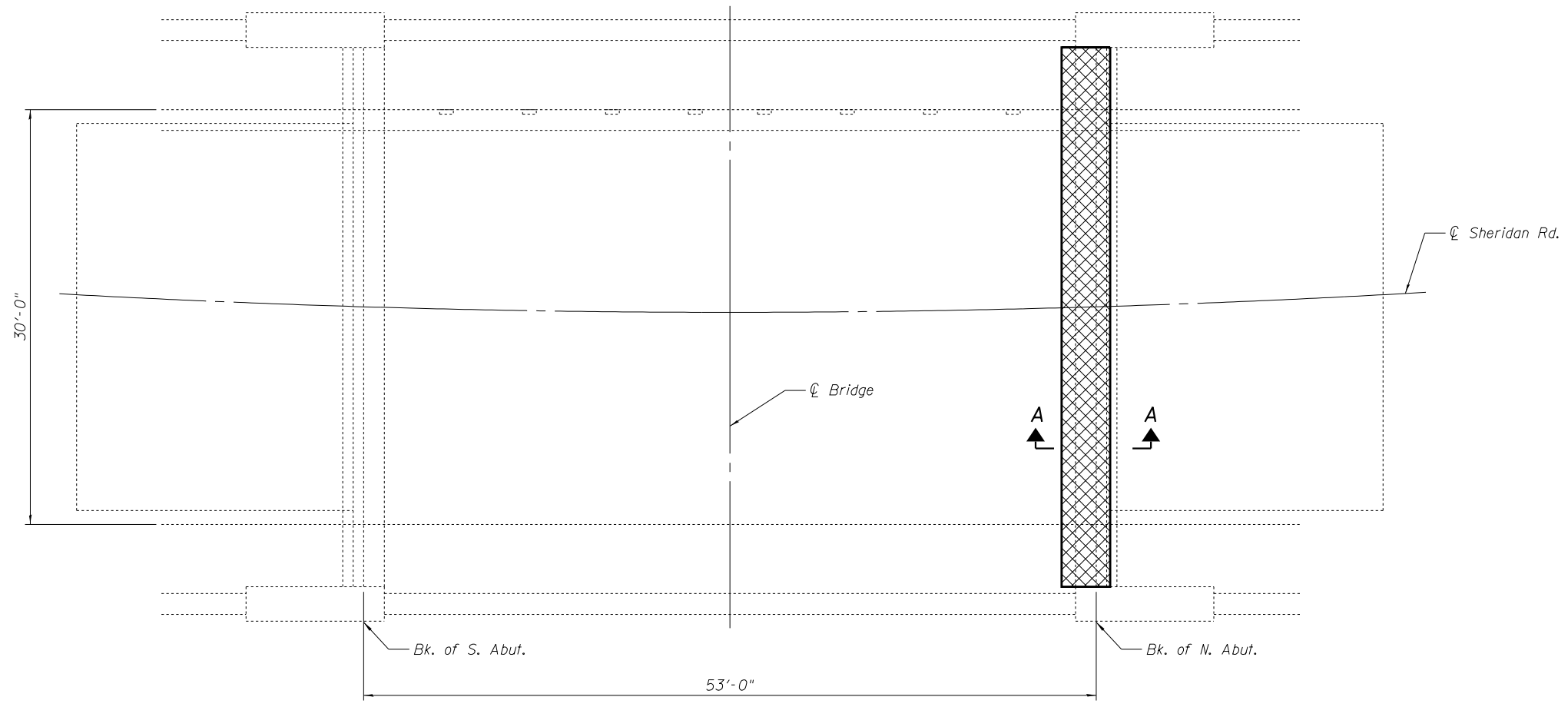
(Showing Aluminum Tube)



**Notes:**  
 The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Specs. SSPC-SPI prior to Painting.  
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
 Galvanize clamping device according to AASHTO M 232. Cost of clamping device and inserts is included with Floor Drains.

DESIGNED	SEA	REVISED	-
CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	57
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**PLAN**

**NOTES**

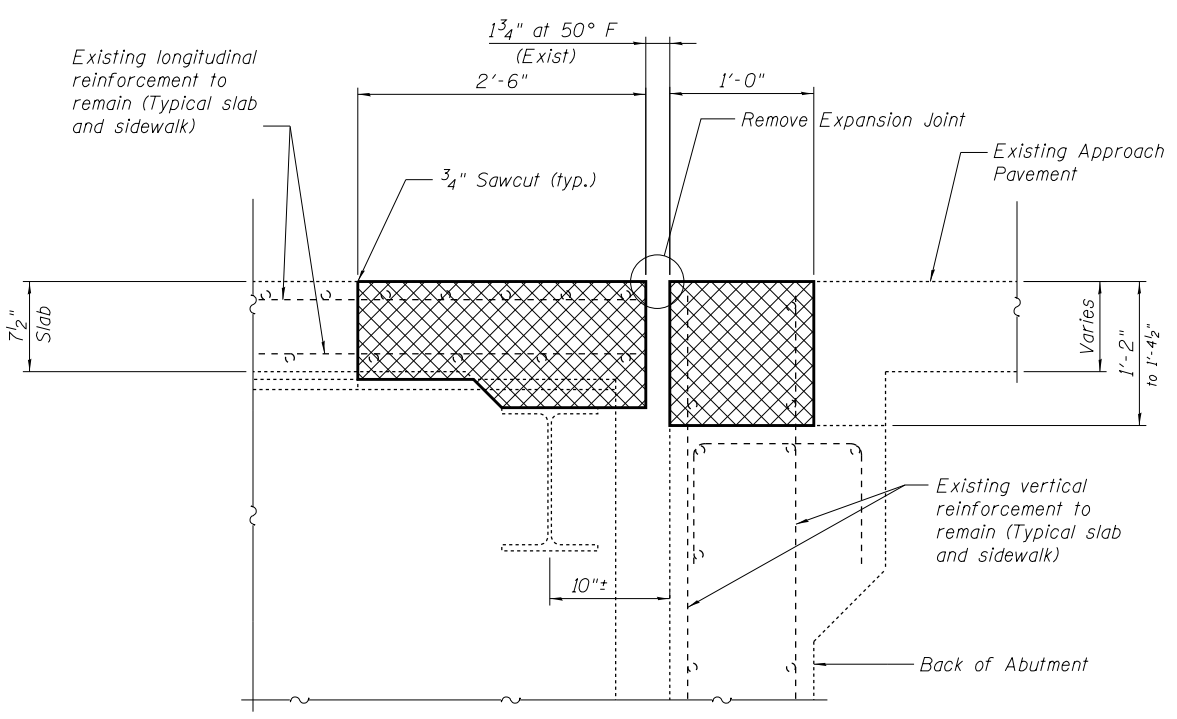
Removal of the existing expansion joints will not be paid for separately but shall be included in the cost for Concrete Removal.

Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following concrete removal to ensure the existing reinforcement remaining in place is not damaged. All existing reinforcing to be incorporated into new construction shall be blast-cleaned, straightened and properly positioned prior to concrete placement. Any reinforcement damaged during concrete removal shall be repaired or replaced using an approved Mechanical Bar Splicer System. Cost of removal shall be included with pay item for Concrete Removal. Cost of replacement shall be included with pay item for Concrete Superstructure.

Sidewalk shall be removed and replaced within the limits of hatched areas shown. All longitudinal sidewalk reinforcement shall remain in place.

The Contractor shall use extreme care during concrete removal so as not to damage the Steel Wide Flange Beams.

**LEGEND**



**SECTION A-A**

**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	5.3



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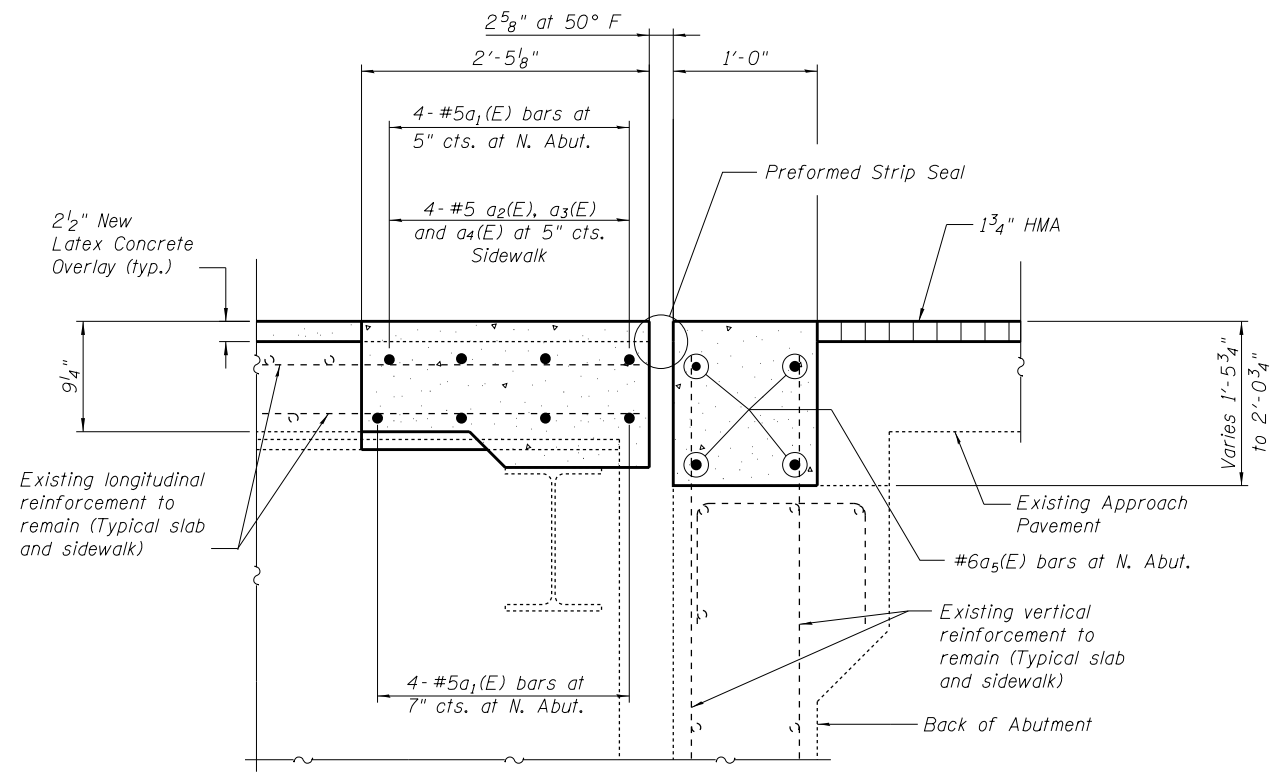
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

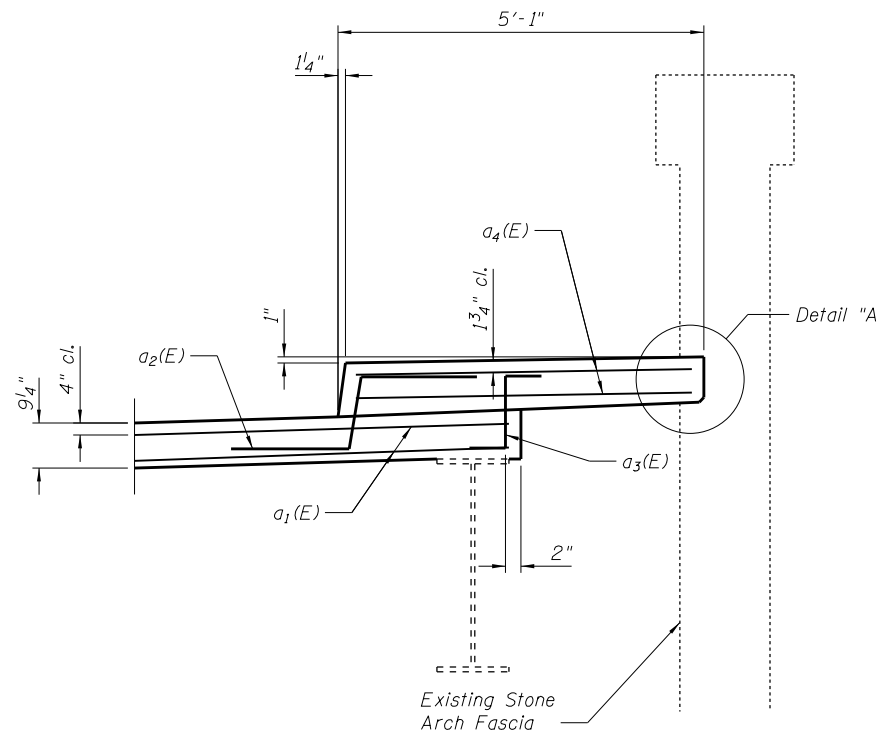
**EXPANSION JOINT REMOVAL  
STRUCTURE NO. 016-0619**

SHEET NO. 5 OF 10 SHEETS

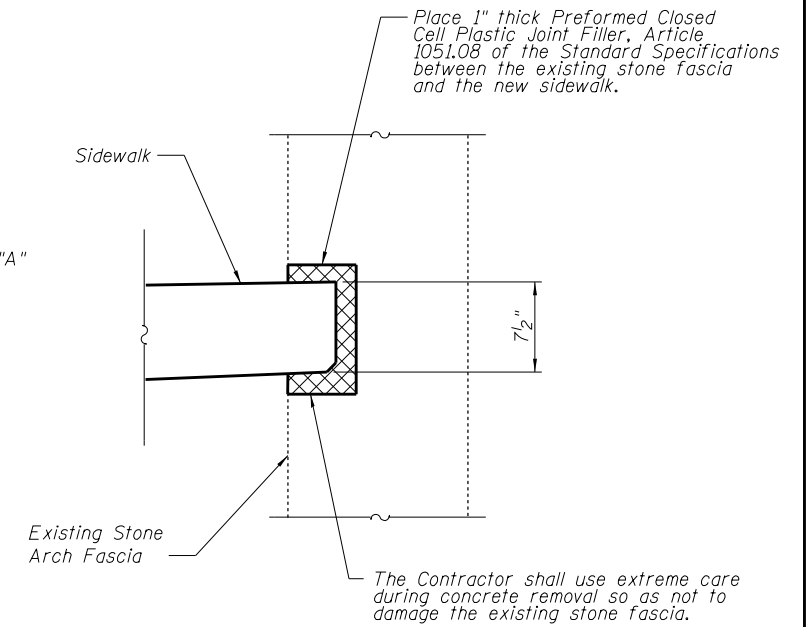
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	58
STA. TO STA.			CONTRACT NO. 60R80	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION AT NORTH ABUTMENT**



**SECTION AT JOINT REPLACEMENT**  
(Looking North)



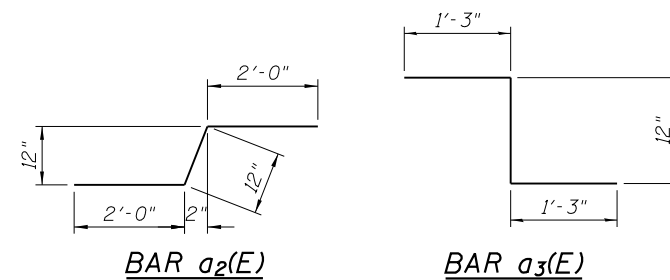
**DETAIL "A"**

**NOTES**

The existing 7 1/2" slab shall be scarified 3/4" and then a 2 1/2" thick latex concrete overlay shall be placed on the deck.

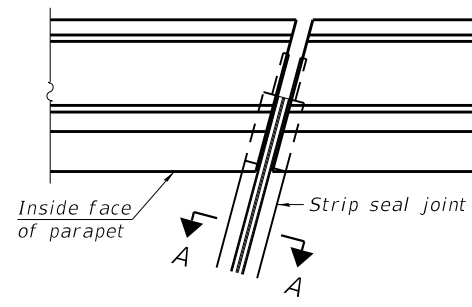
For details of Preformed Joint Strip Seal, see Sheet No. 7-9.

Apply Protective Coat to New "Concrete Superstructure" at Expansion Joints and to the horizontal and vertical faces of the sidewalk, rails and overlay areas.



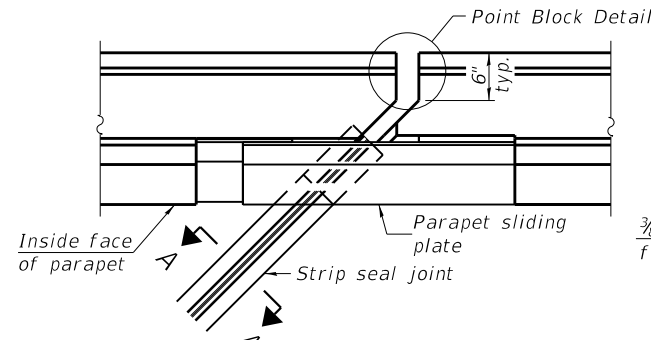
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	8	#5	34'-9"	—
a2(E)	8	#5	5'-0"	—
a3(E)	8	#5	3'-6"	—
a4(E)	8	#5	4'-8"	—
a5(E)	4	#6	34'-9"	—
Concrete Superstructure			Cu. Yd.	5.8
Reinforcement Bars, Epoxy Coated			Pound	610

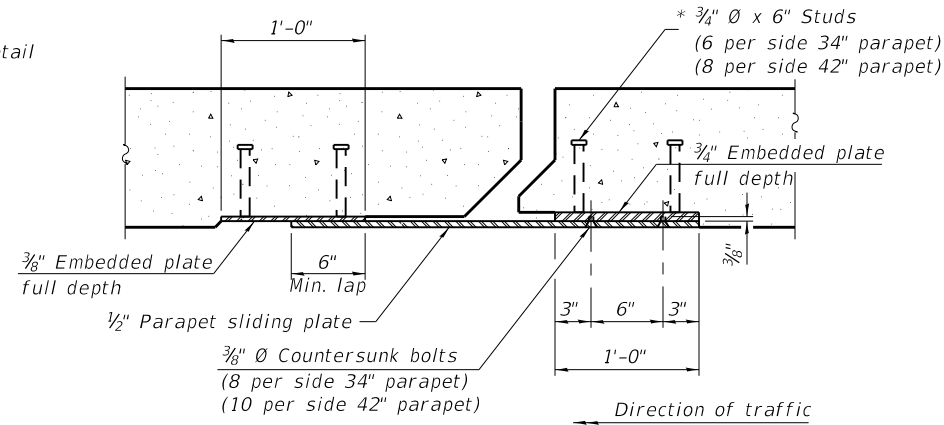


FOR SKEWS  $\leq 30^\circ$

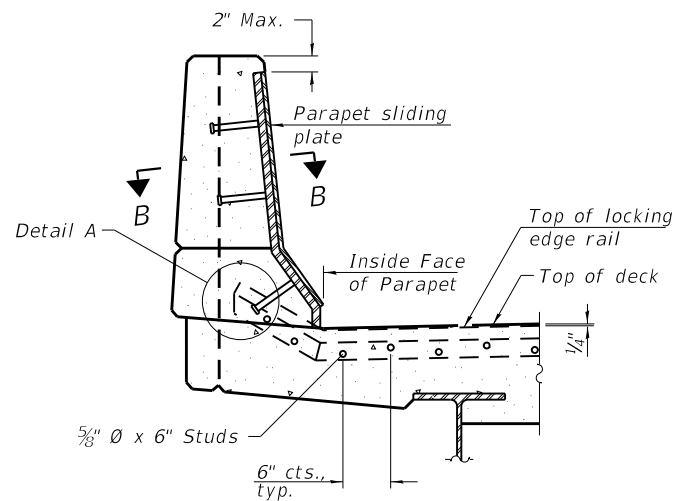
**PLAN AT PARAPET**



FOR SKEWS  $> 30^\circ$

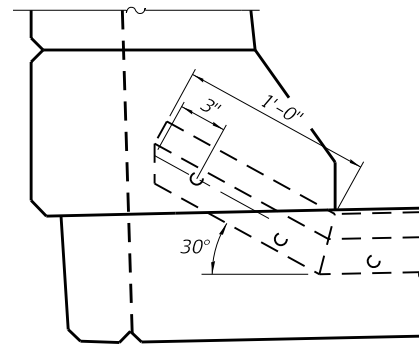


**SECTION B-B**

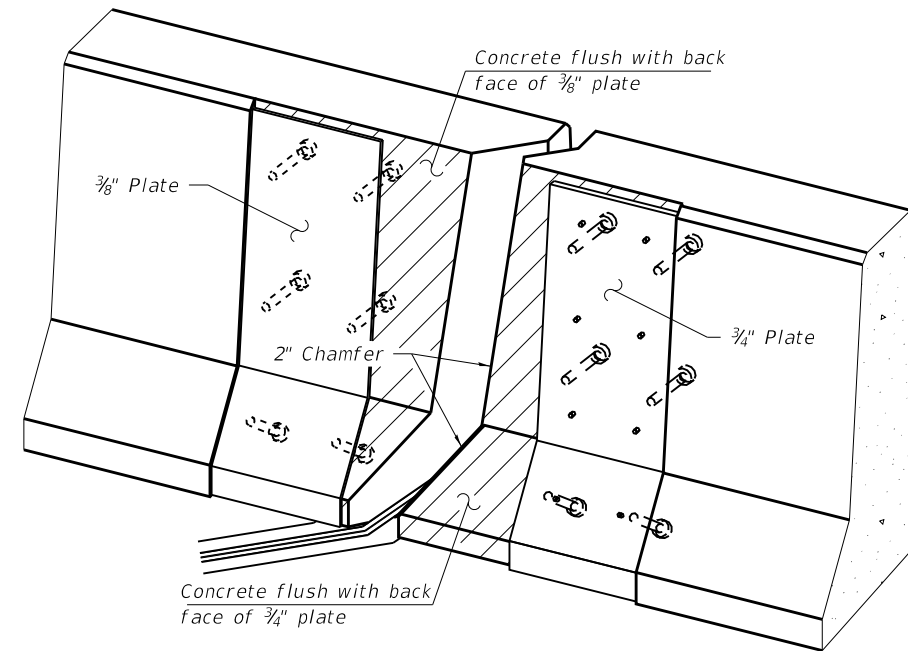


**ELEVATION AT PARAPET**

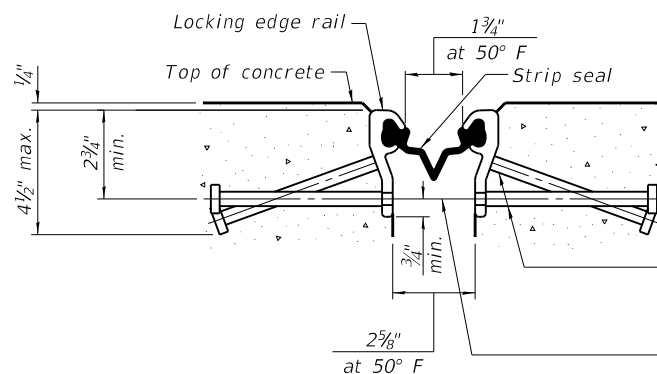
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



**DETAIL A**



**TRIMETRIC VIEW**  
(Showing embedded plates only)

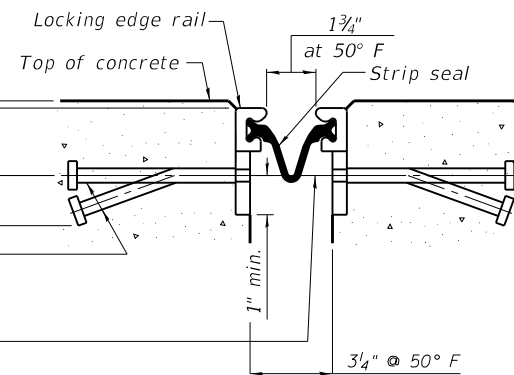


**SHOWING ROLLED RAIL JOINT**

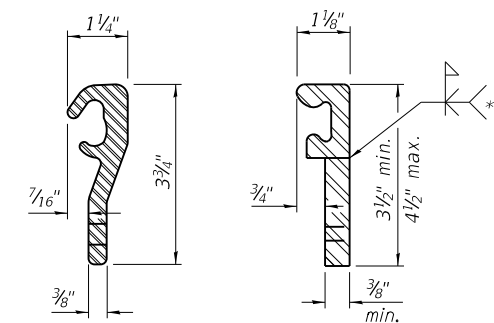
\*  $5/8"$   $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 $3/8"$   $\phi$  threaded rods in  $7/16"$   $\phi$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

**SECTION A-A**

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

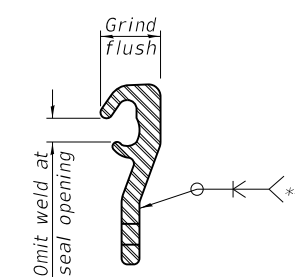


**SHOWING WELDED RAIL JOINT**



**LOCKING EDGE RAILS**

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



**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	38

EJ-SS-S

8-11-17

(Sheet 1 of 3)

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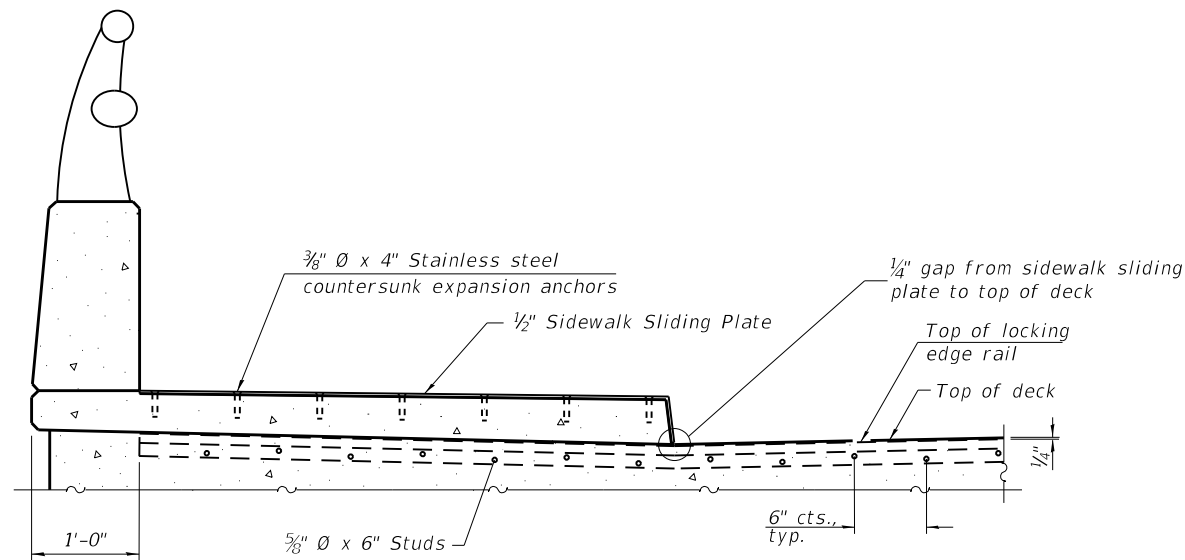
DESIGNED SEA	REVISED -
CHECKED ME	REVISED -
DRAWN SCS	REVISED -
CHECKED SEA	REVISED -

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

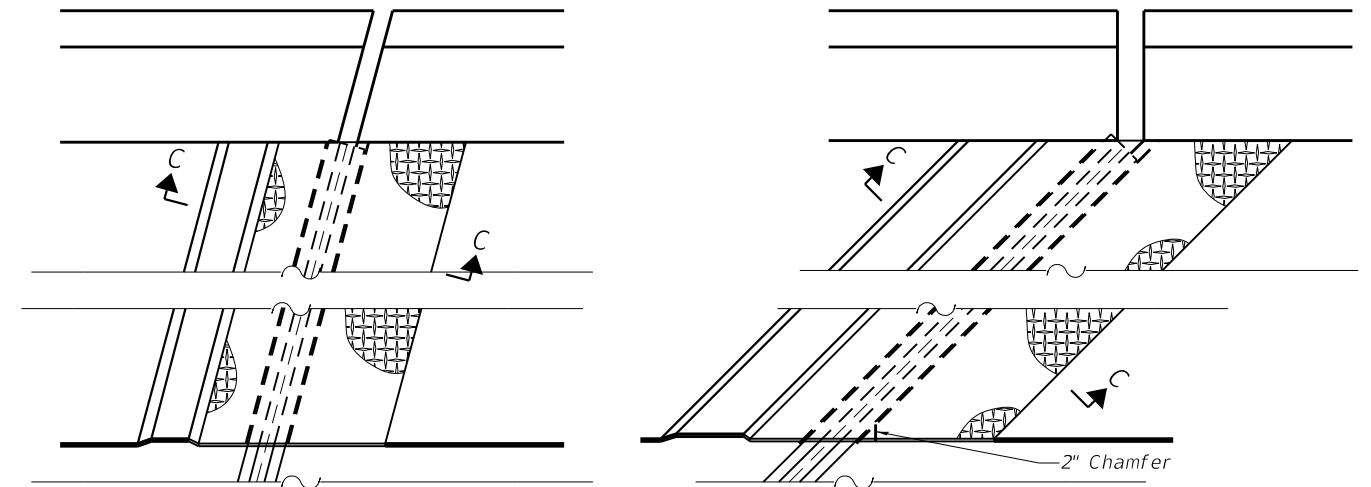
**PREFORMED JOINT STRIP SEAL - SIDEWALK**  
**STRUCTURE NO. 016-0619**

SHEET NO. 7 OF 10 SHEETS

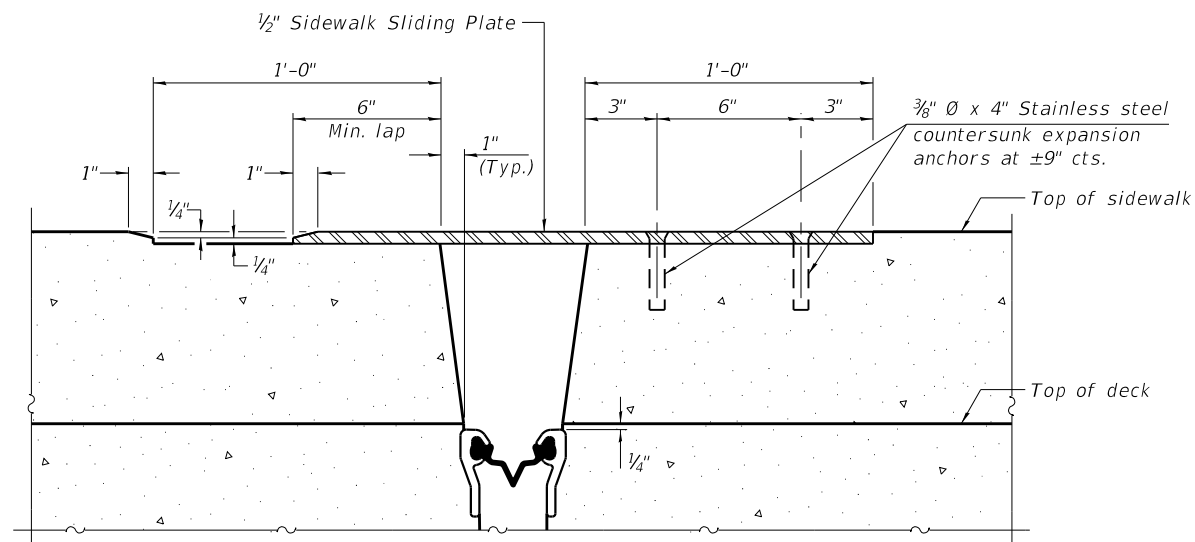
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	60
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



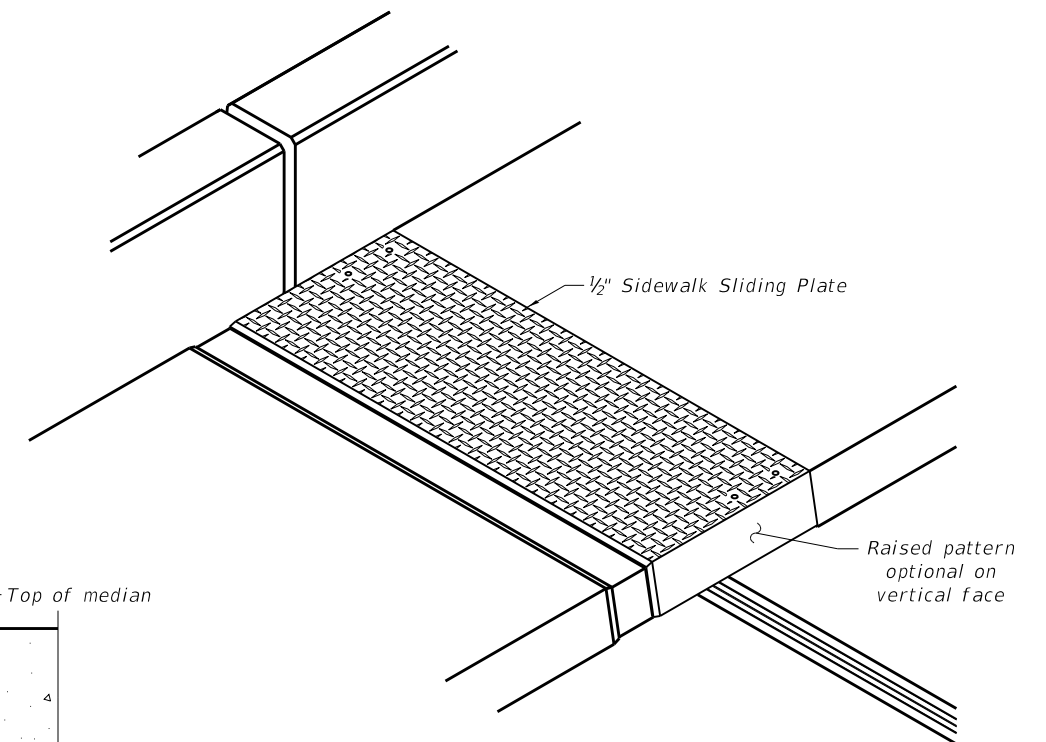
**ELEVATION AT RAISED SIDEWALK**



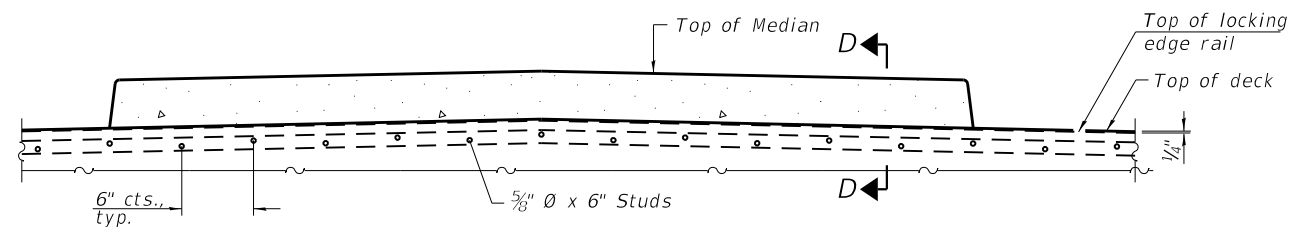
**PLAN AT RAISED SIDEWALK**



**SECTION C-C**

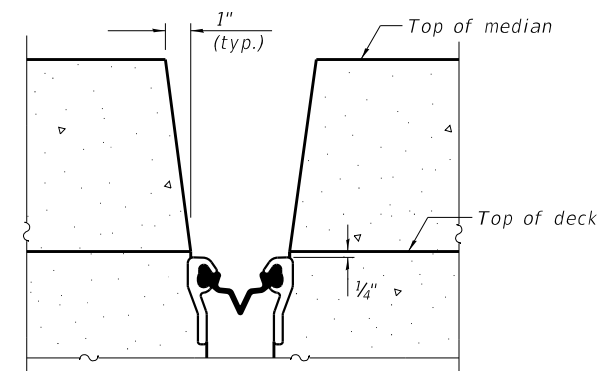


**TRIMETRIC VIEW**



**ELEVATION AT MEDIAN**

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



**SECTION D-D**  
(at Rt. L's)

EJ-SS-S

8-11-17

(Sheet 2 of 3)

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 DESIGN FIRM REG. 184.002117  
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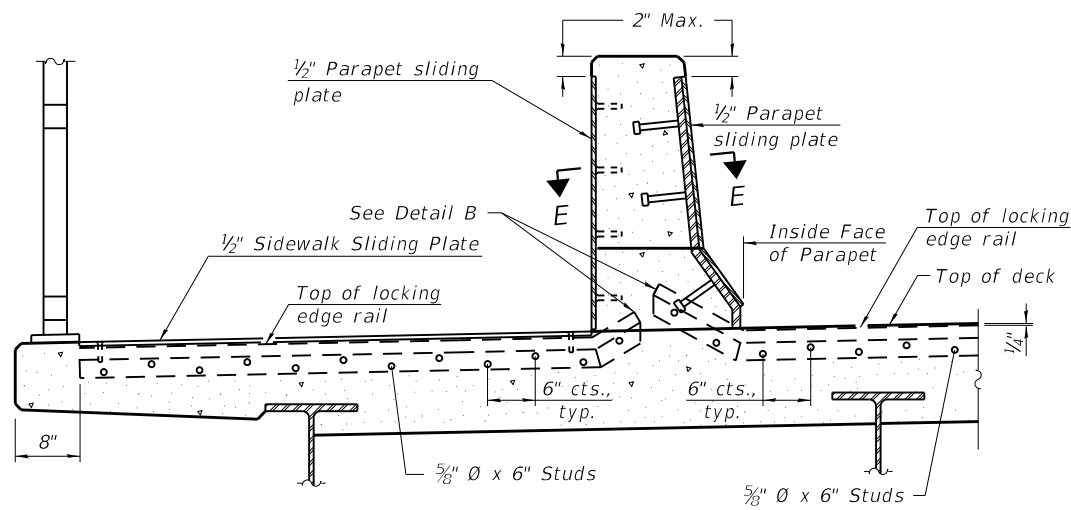
DESIGNED	SEA	REVISED	-
CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

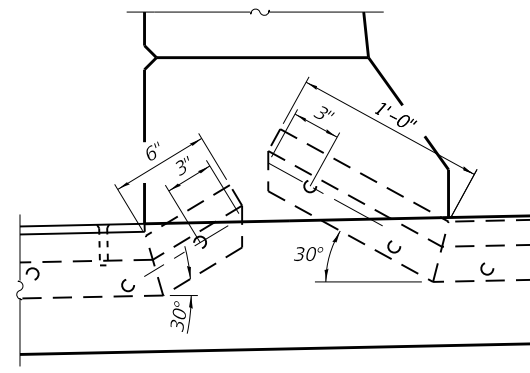
PREFORMED JOINT STRIP SEAL - SIDEWALK  
 STRUCTURE NO. 016-0619

SHEET NO. 8 OF 10 SHEETS

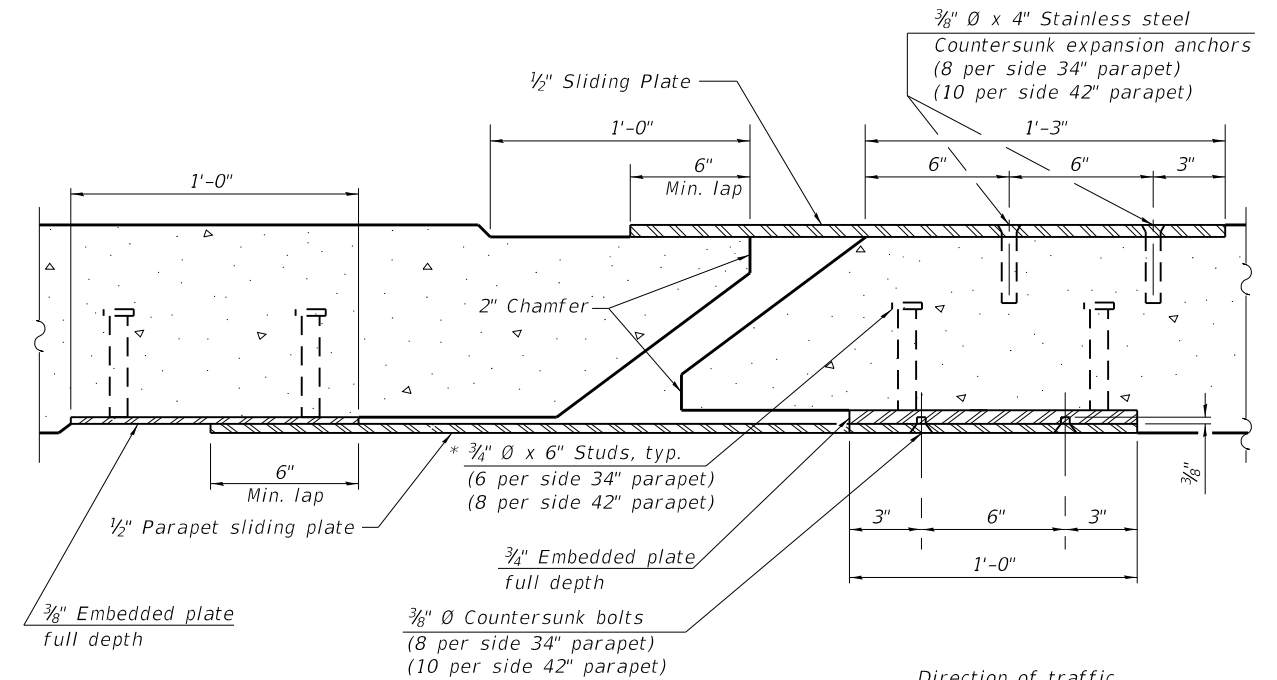
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	61
STA. TO STA.	CONTRACT NO. 60R80			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



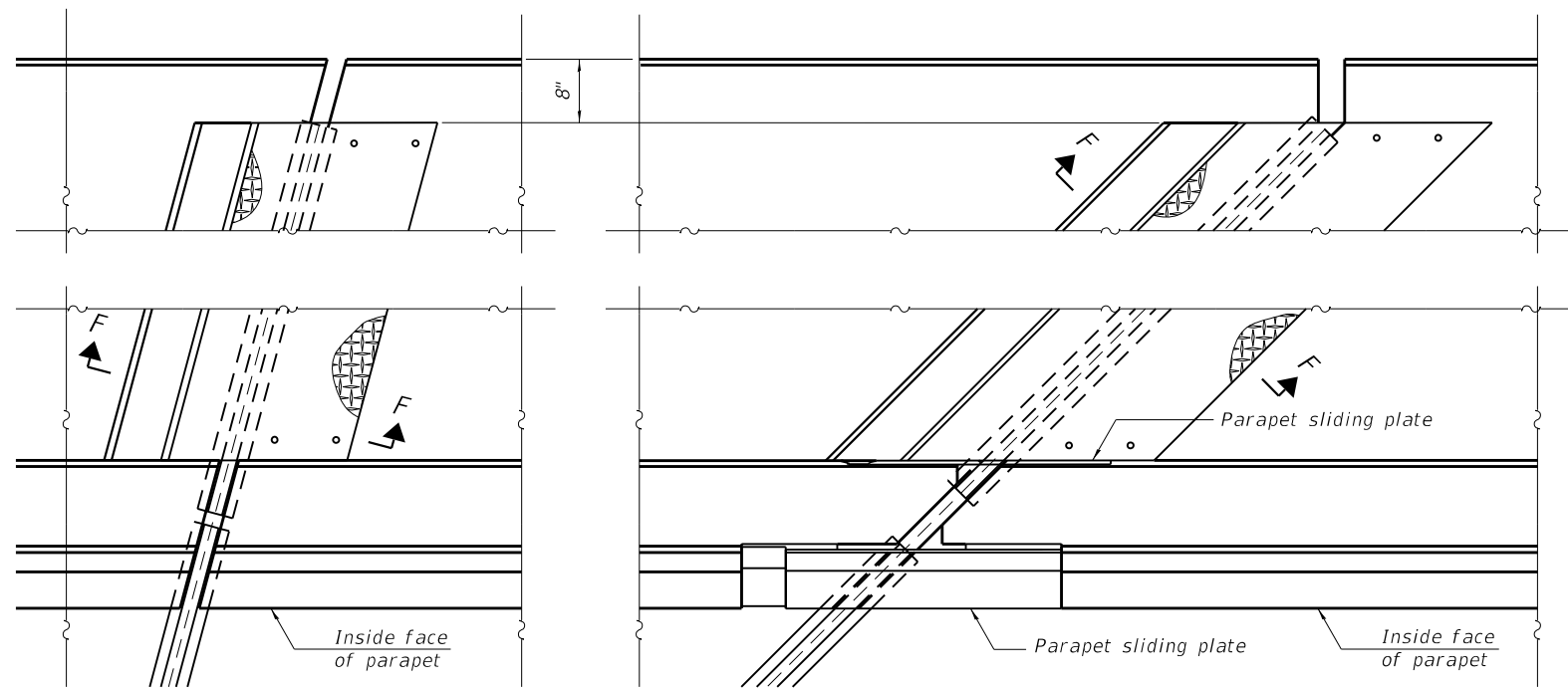
**ELEVATION AT DECK LEVEL SIDEWALK**  
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



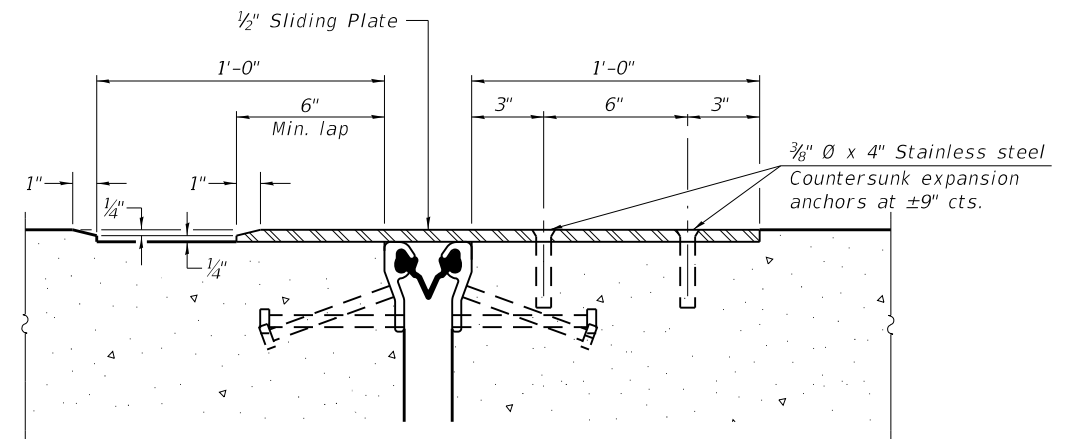
**DETAIL B**



**SECTION E-E**



**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

EJ-SS-S

8-11-17

(Sheet 3 of 3)

**ABNA**  
 DESIGN FIRM REG. 184.002117

9901 S. Western Ave.  
 Chicago, IL 60643  
 Ph. 773-881-4788  
 F: 773.239.3728

DESIGNED	SEA	REVISED	-
CHECKED	ME	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

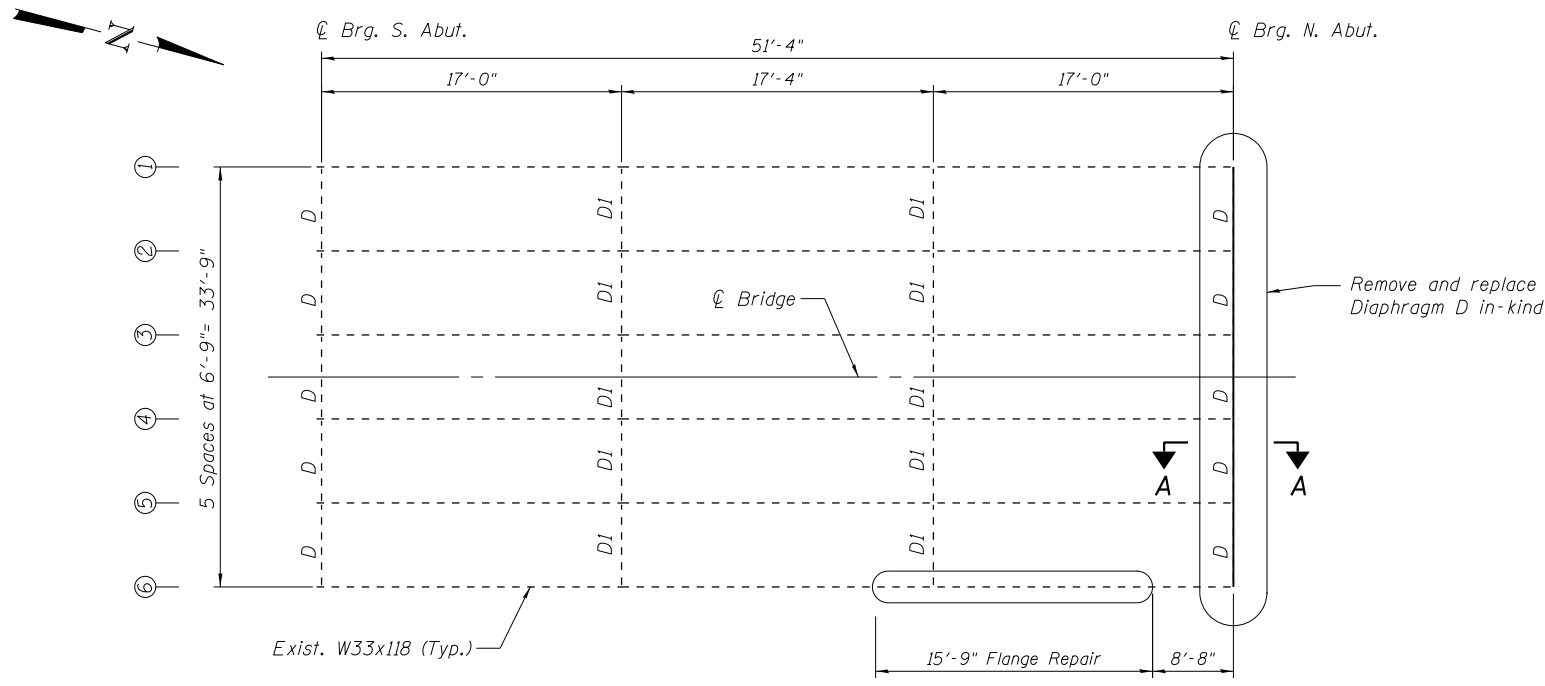
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK  
 STRUCTURE NO. 016-0619**

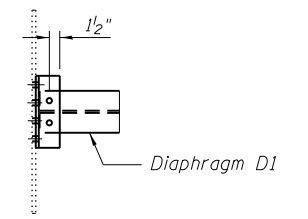
SHEET NO. 9 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	112-BR 112	COOK	74	62
STA. TO STA.		CONTRACT NO. 60R80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

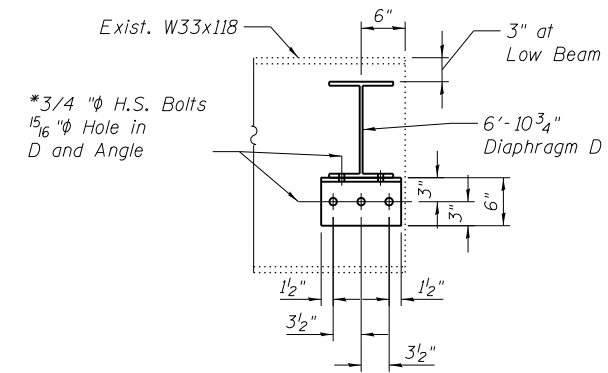




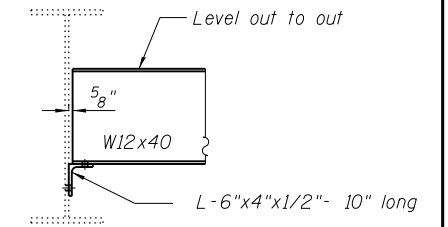
**FRAMING PLAN**



**PLAN**



**SECTION A-A**



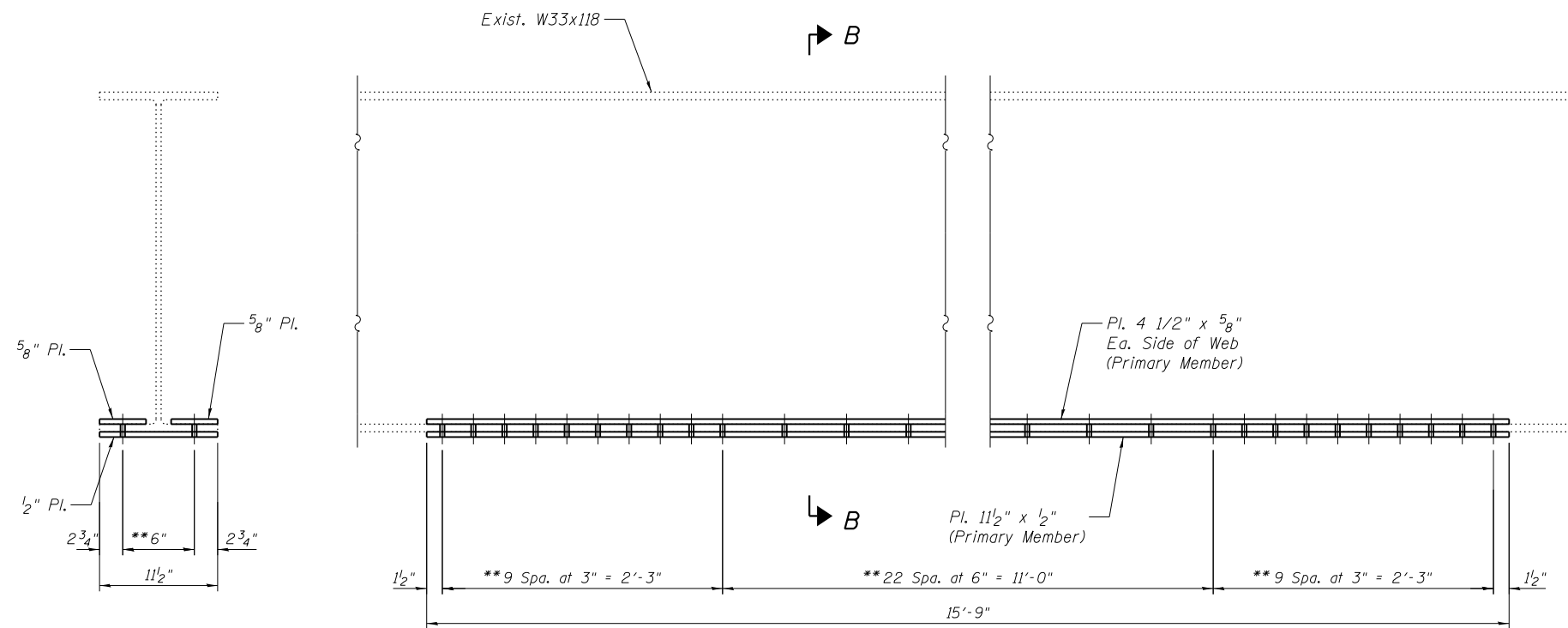
**ELEVATION**

\* Note:  
 Field drill all holes. Location of bolt holes may be adjusted so that angle on opposite side share bolts.

**END DIAPHRAGM D**

Existing & Proposed  
 5 Required

Note:  
 Remove existing Angles using air-arc method and grind smooth all weld material remaining on web.  
 Care must be taken not to damage beam webs.  
 Two Hardened Washers shall be required over 15/16" diameter holes in angles and beam.



**SECTION B-B**

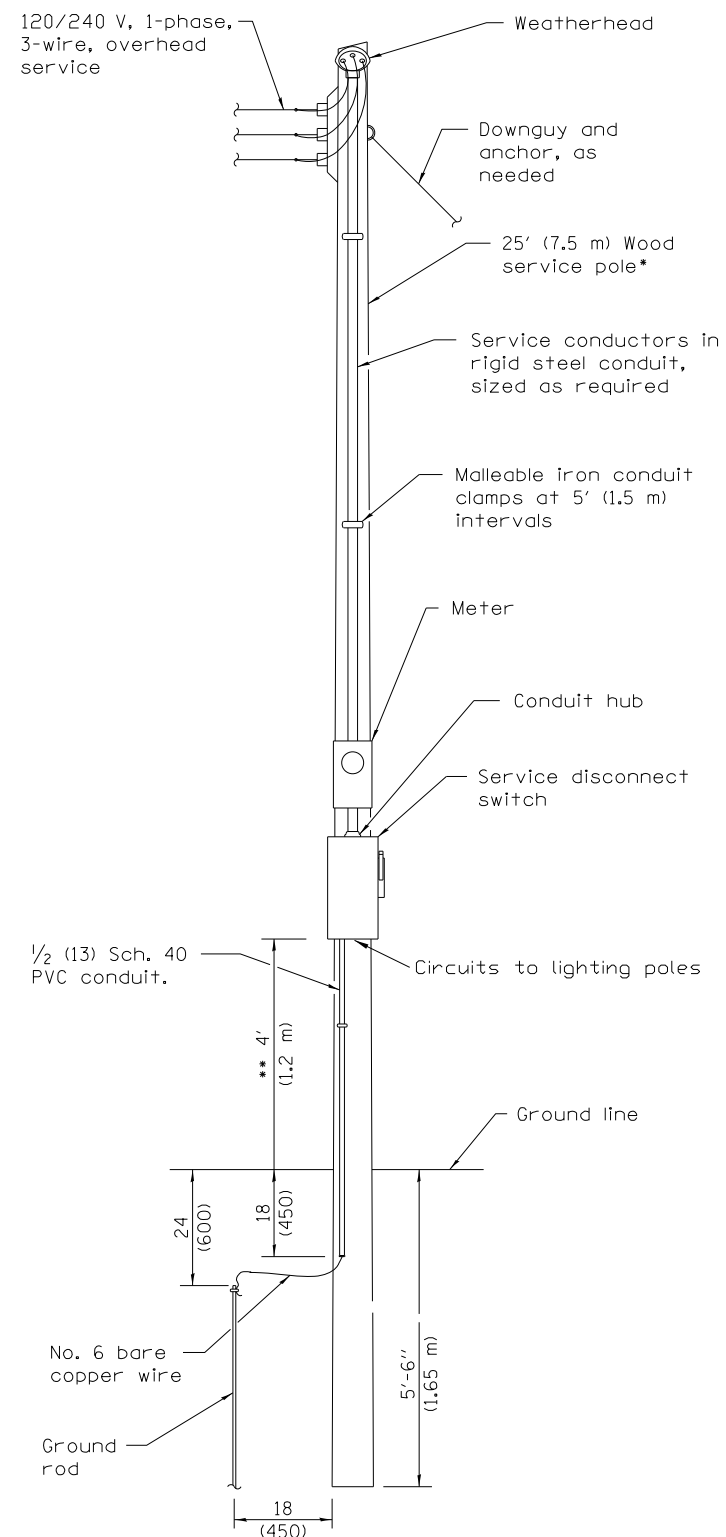
**BEAM FLANGE REPAIR DETAIL (BEAM 6)**

\*\* Note:  
 Field drill holes using plates as template.

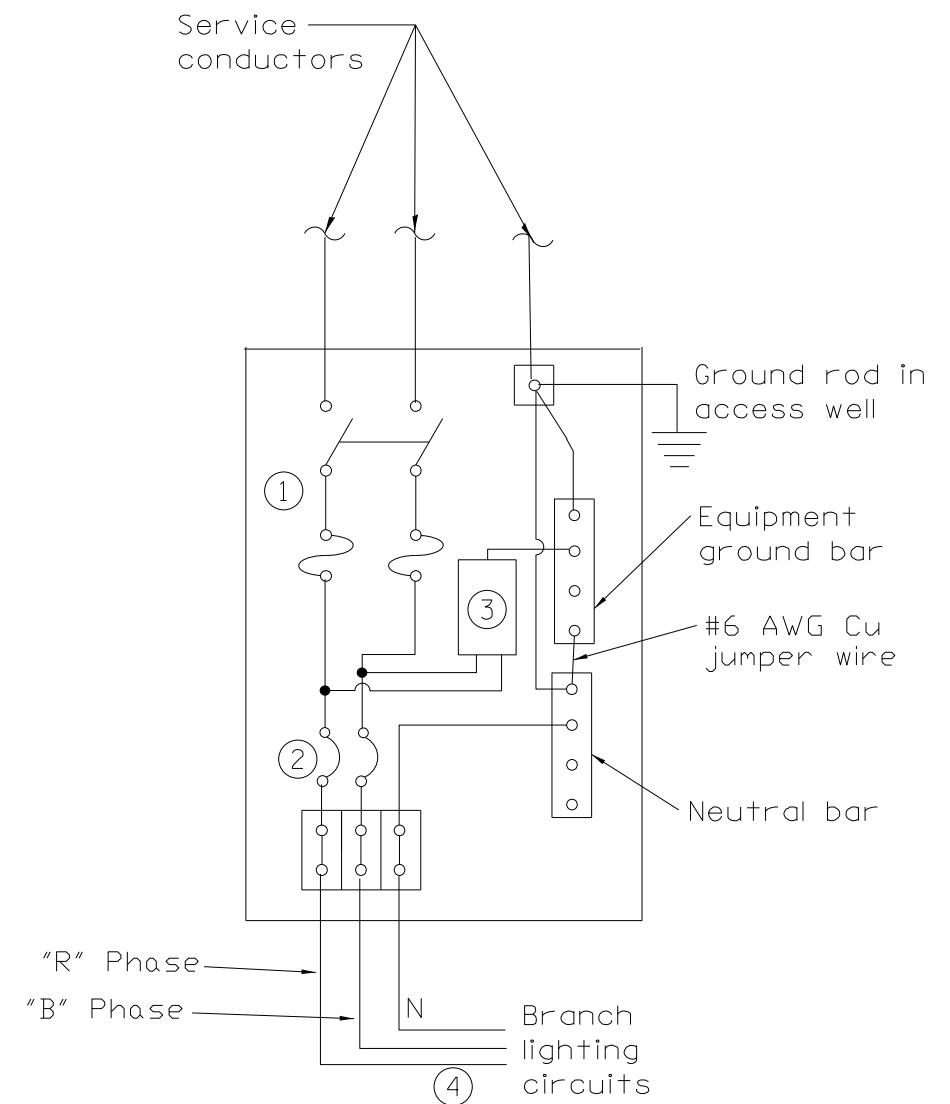
**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	1490***
Structural Steel Removal	Pound	1490***
Structural Steel Repair	Pound	750****

\*\*\* Includes Diaphragms, Angles and Fasteners.  
 \*\*\*\* Includes Bottom Flange Repair.



**ELECTRIC SERVICE INSTALLATION**



**TEMPORARY LIGHTING DISCONNECT/DISTRIBUTION CONCEPT**

- ① Service disconnect switch - 2-pole, 3-wire, 30 amp, fused at 30 amps, solid neutral in NEMA 4X enclosure having lockable external handle. For 120/240 V 3-wire service.
- ② 20 amp, 1-pole circuit breaker, 277 V, 10,000 AIC @ 240 V. Typical 1 of 2
- ③ Surge arrester.
- ④ Connect ground wire in each aerial circuit to ground bus.

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

MODEL: D:\p\uk... FILE NAME: ...



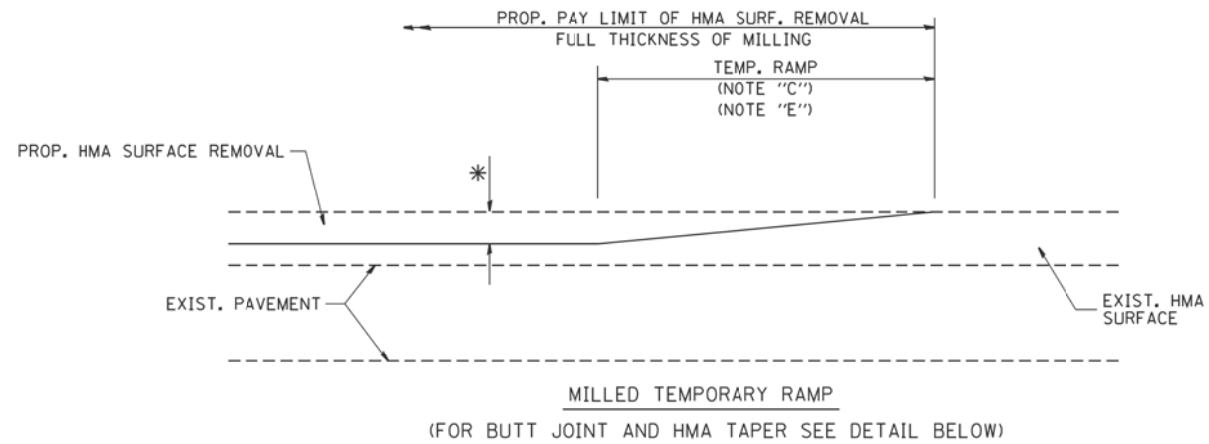
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PLOT DATE = 3/12/2019	CHECKED - FPE	REVISED -
	DATE - 03/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

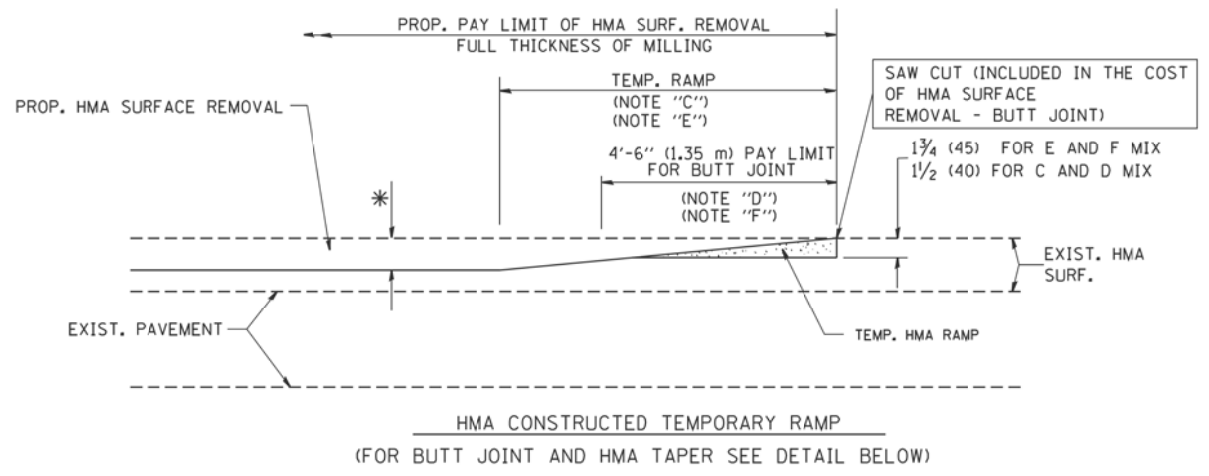
**TEMPORARY LIGHTING DISCONNECT AND DISTRIBUTION  
MODIFIED STANDARD 825016**

SCALE: SHEET OF SHEETS STA. TO STA.

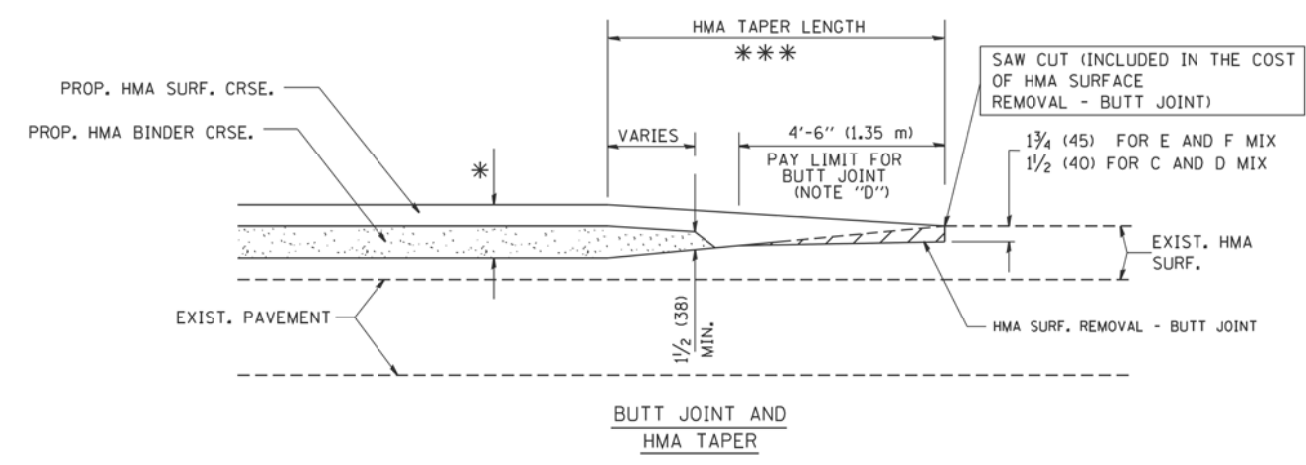
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	64
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R80	



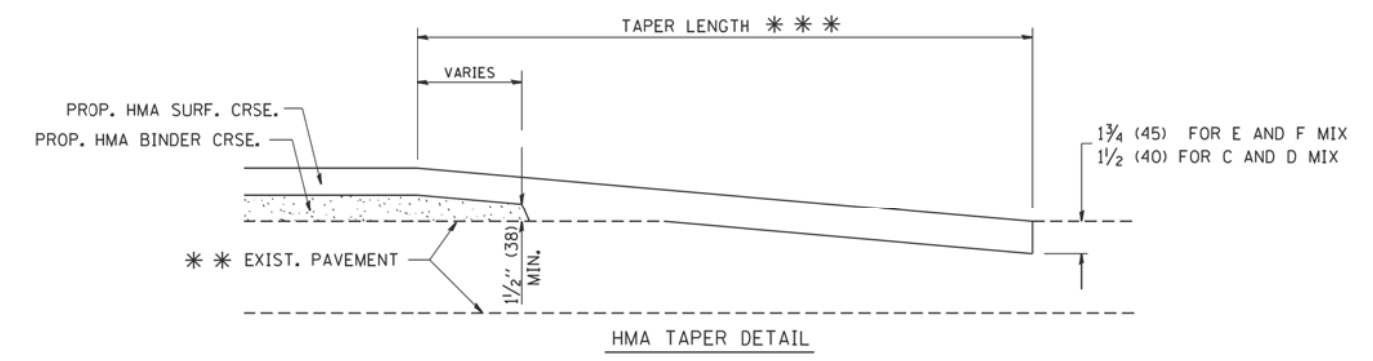
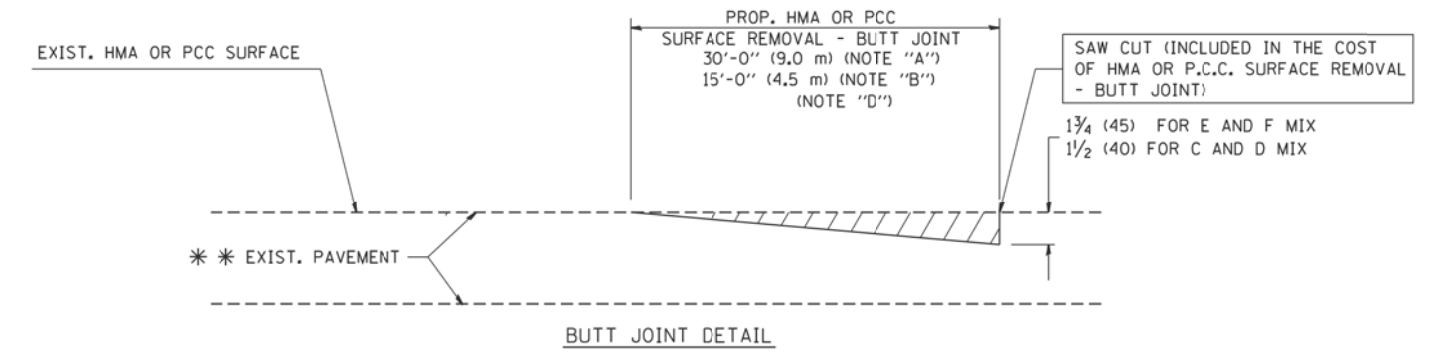
**OPTION 1**



**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**



**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

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

**NOTES**

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

**BASIS OF PAYMENT:**

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

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

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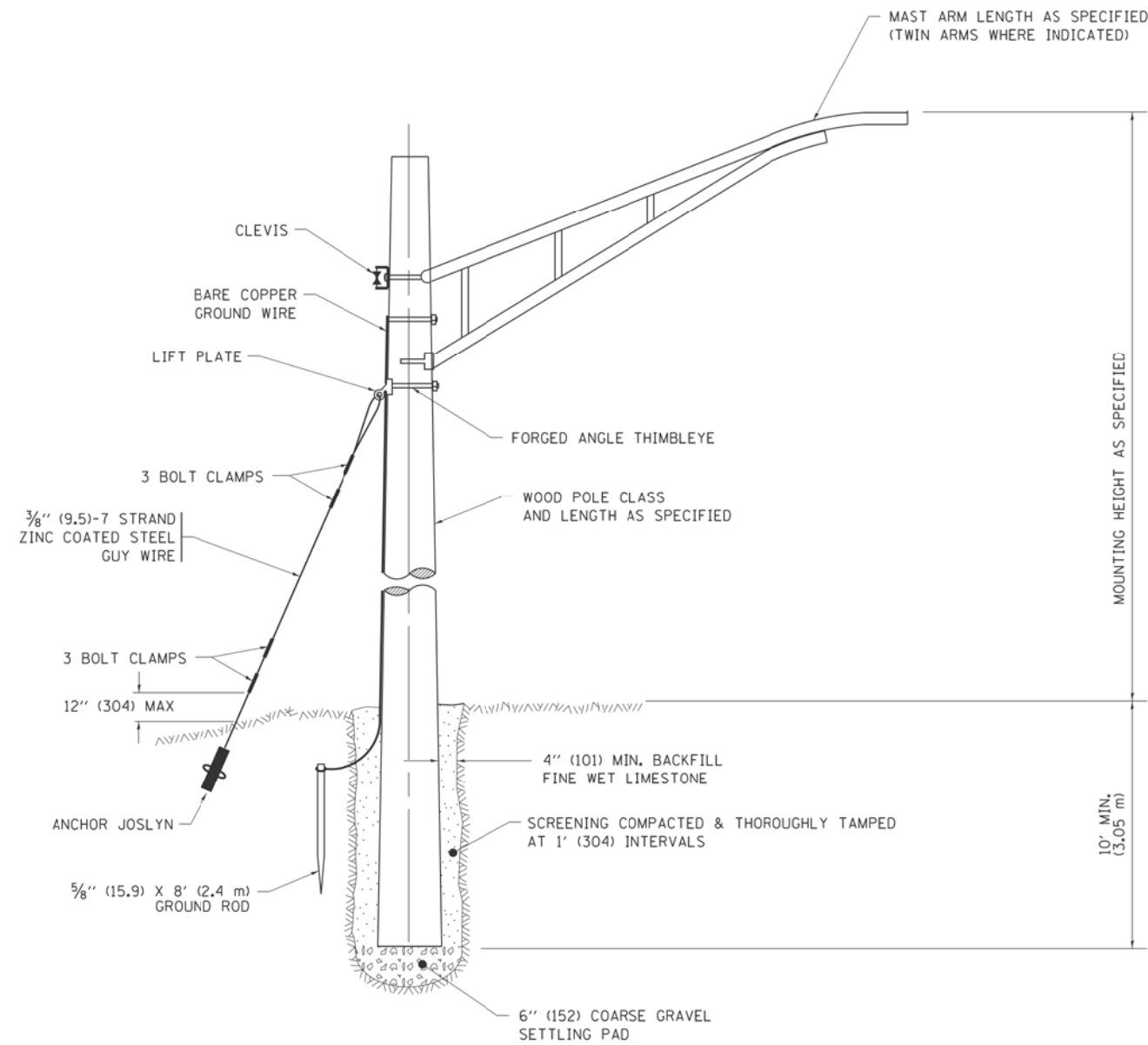


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	DATE - 3/12/19	REVISED -

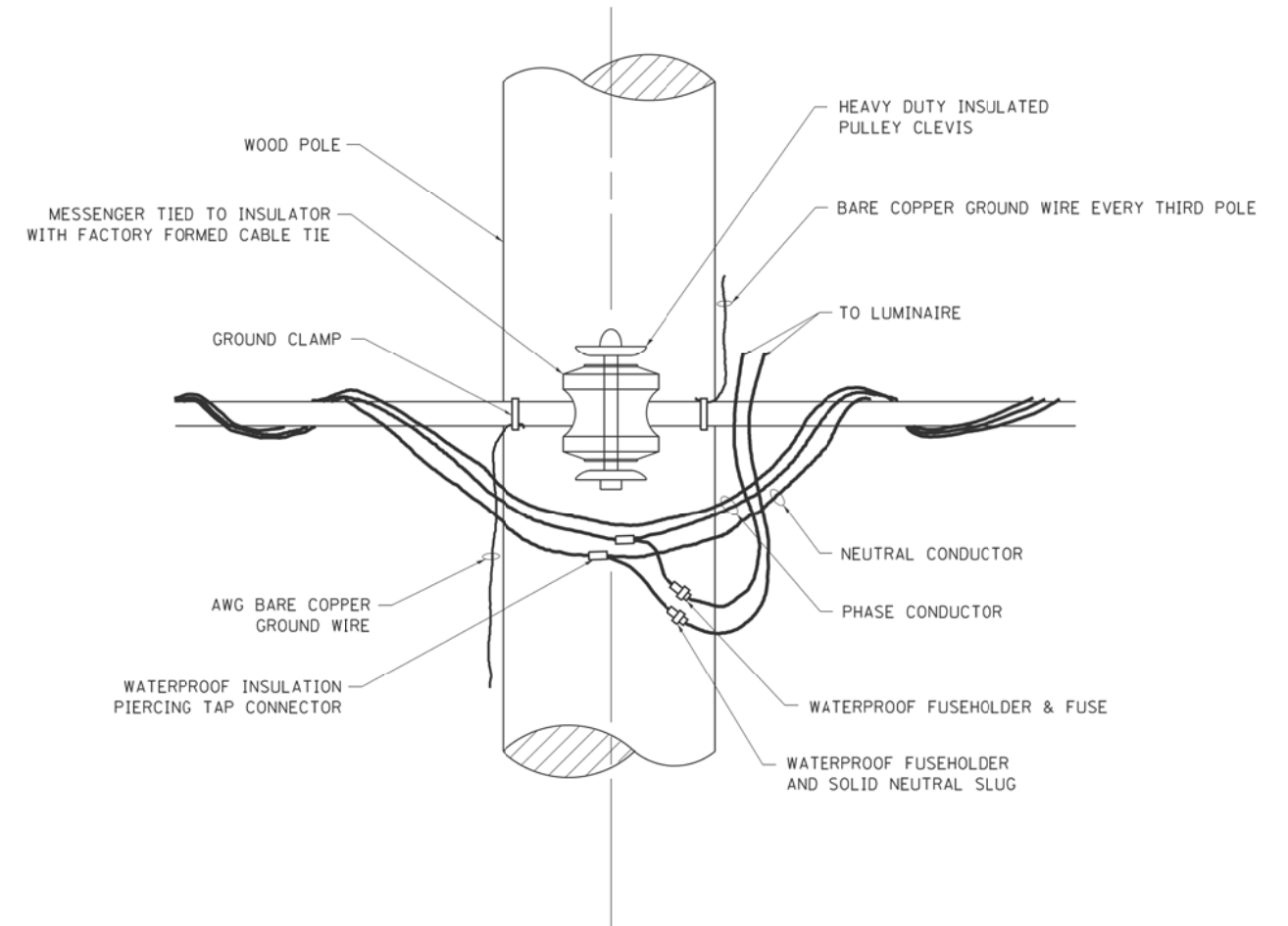
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS (BD-32)</b>	
SCALE: NONE	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	65
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



**TEMPORARY LIGHT POLE DETAIL**



**TEMPORARY LIGHT POLE ATTACHMENT DETAIL**

**NOTE:**

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

MODEL: Default  
FILE NAME: \\na10b101\201806060\Drawings\64-D-16886-01.dwg



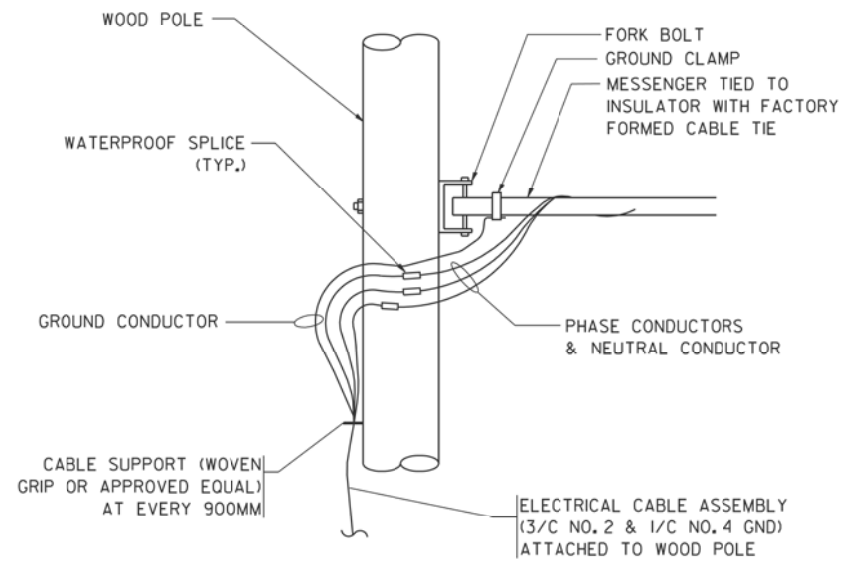
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	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

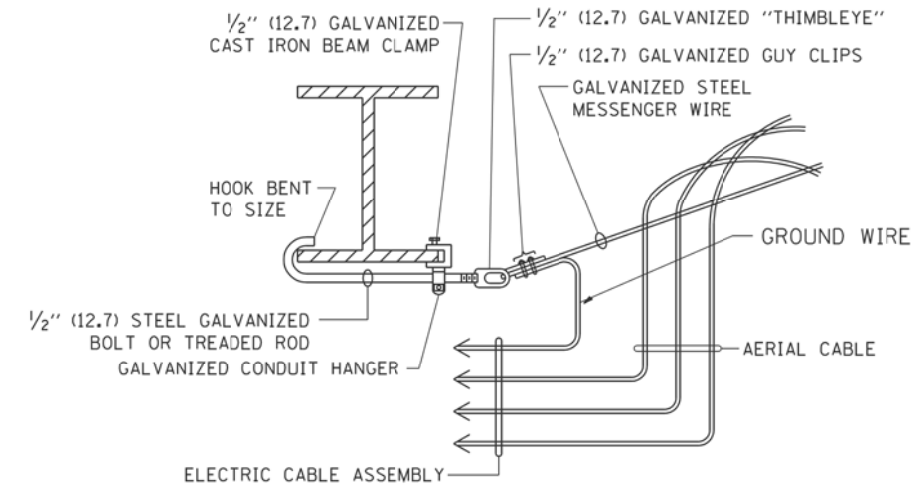
**TEMPORARY LIGHT POLE DETAILS (BE-800)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	66
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



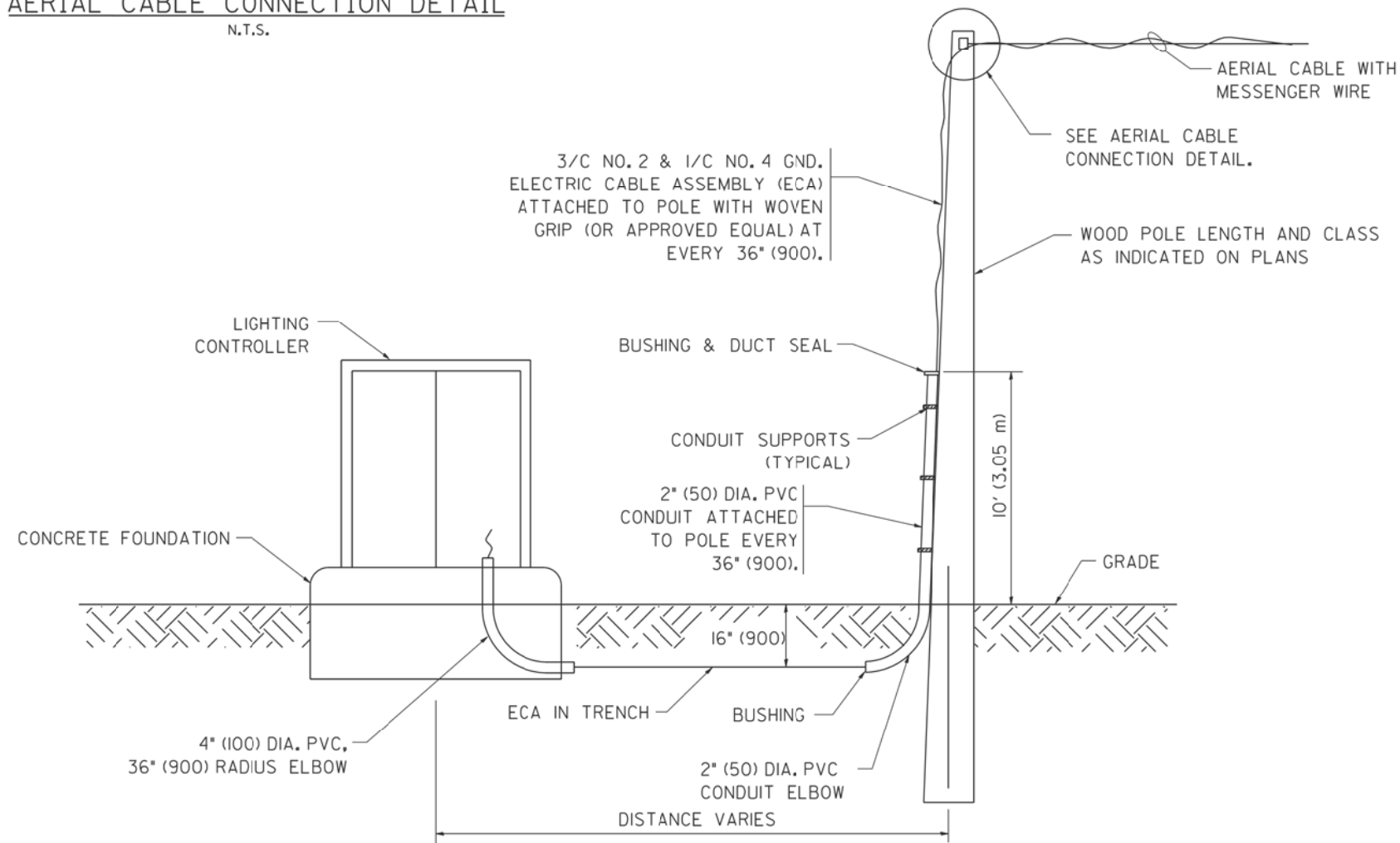
**AERIAL CABLE CONNECTION DETAIL**  
N.T.S.



**AERIAL CABLE ATTACHED TO STRUCTURE**  
NOT TO SCALE

**NOTES:**

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



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

MODEL: D:\p\ut FILE NAME: \\na\1\10\11\2018\6060\Design\64-D-16886-01.dwg



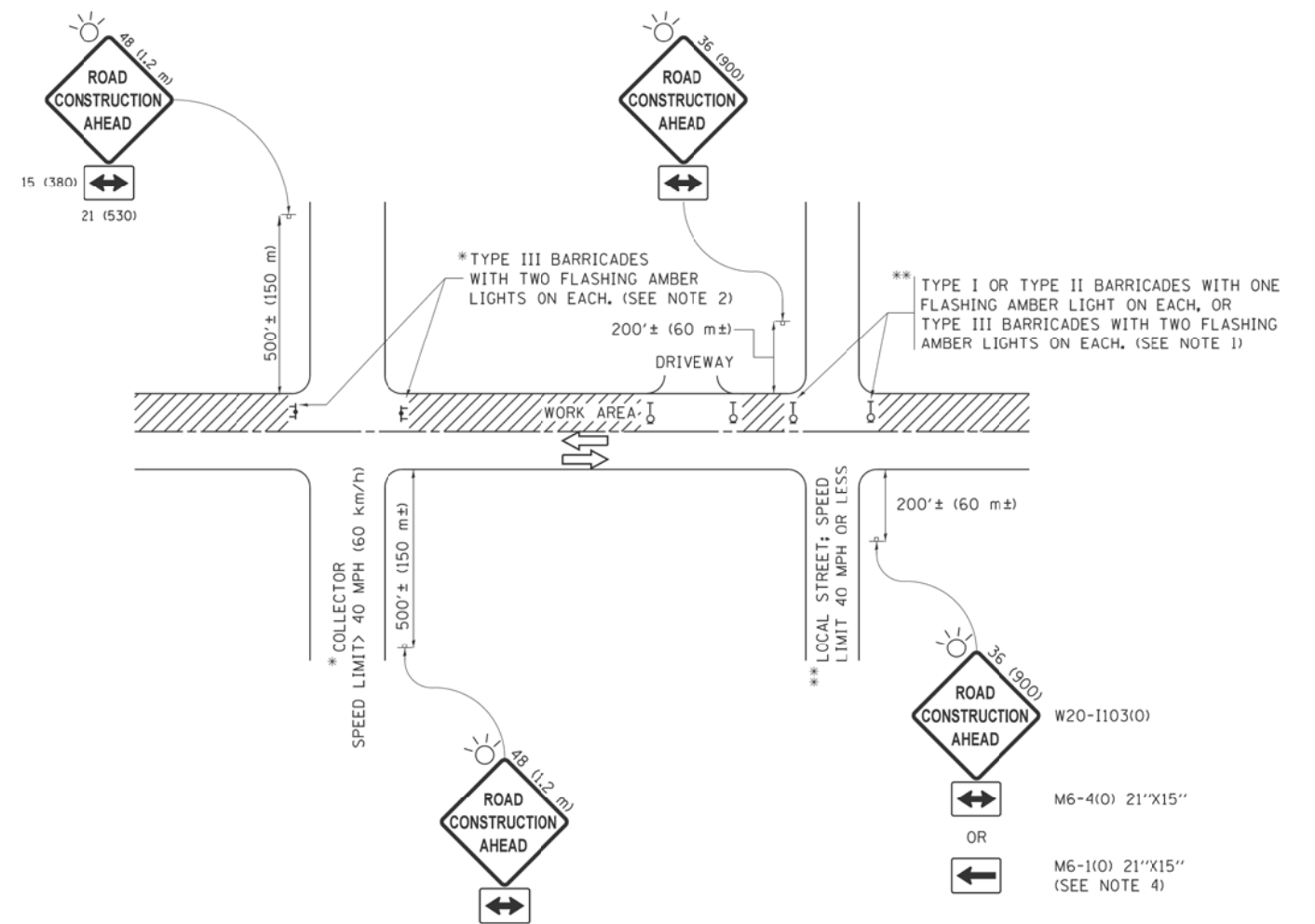
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PLOT DATE = 3/12/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY AERIAL CABLE INSTALLATION (BE-801)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	67
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

MODEL: D:\p\ut FILE NAME: \p\m\abna\2018\6060\Drawings\64-D16R80-ctc1.dgn



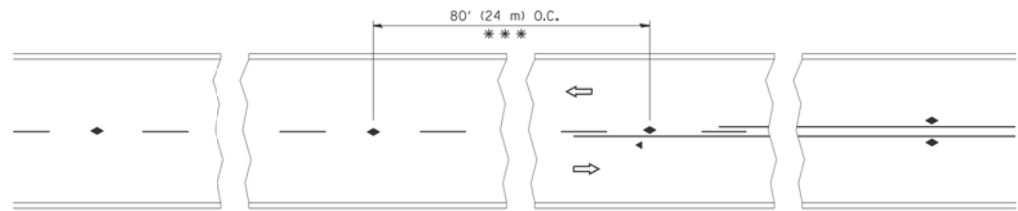
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PLOT DATE = 3/12/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS,  
INTERSECTIONS, AND DRIVEWAYS (TC-10)**

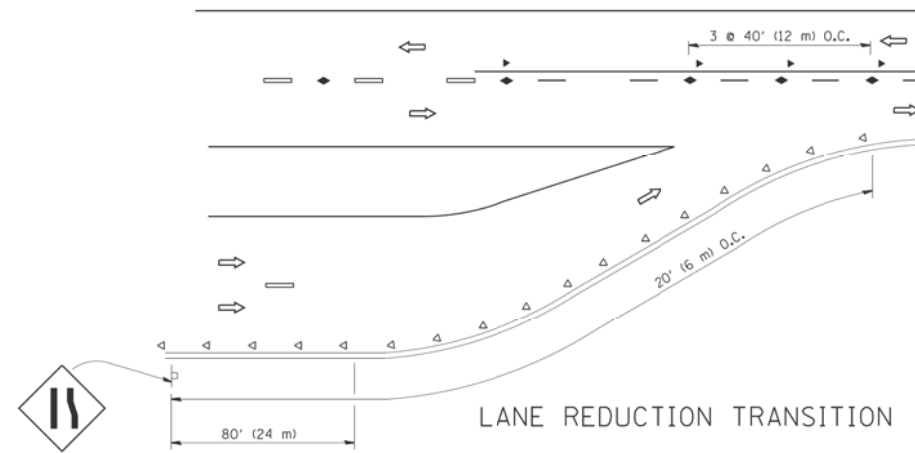
SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	68
CONTRACT NO. 60R80				
		ILLINOIS	FED. AID PROJECT	

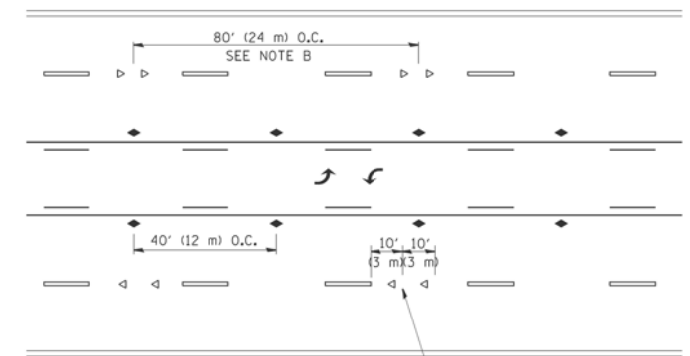


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

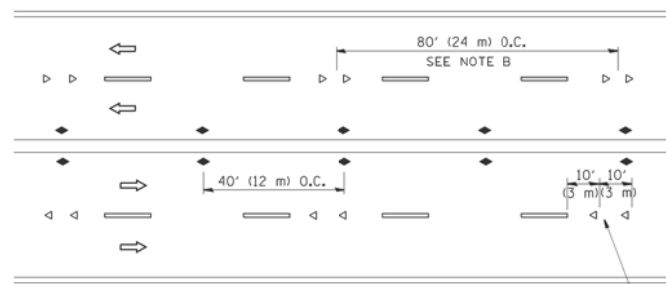
TWO-LANE/TWO-WAY



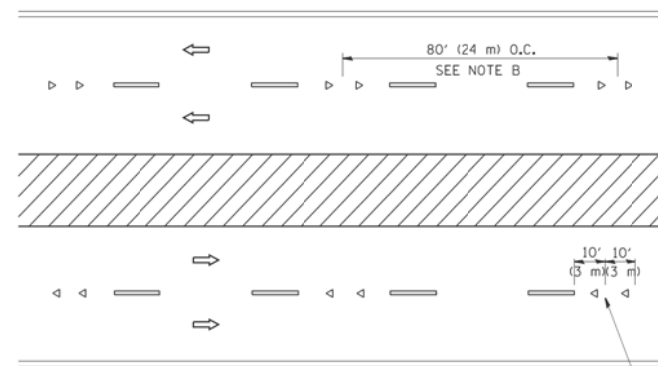
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

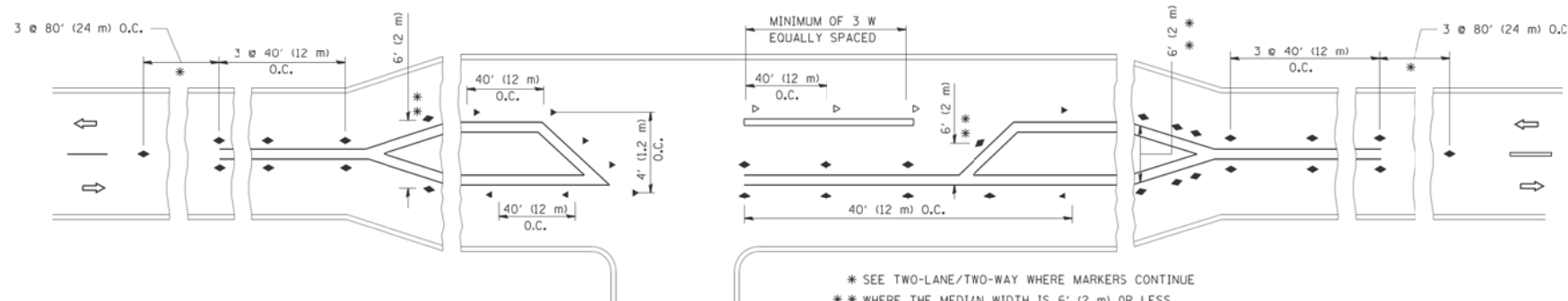
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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

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

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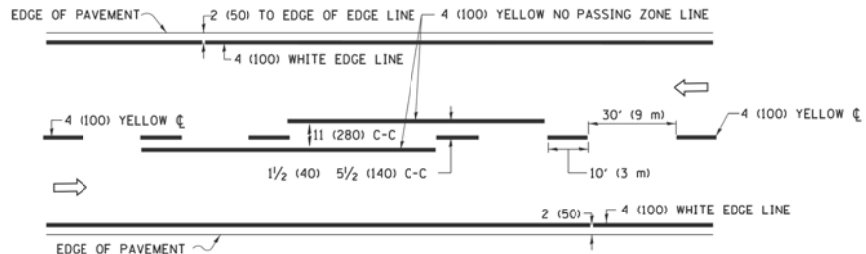
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	DATE - 3/12/19	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

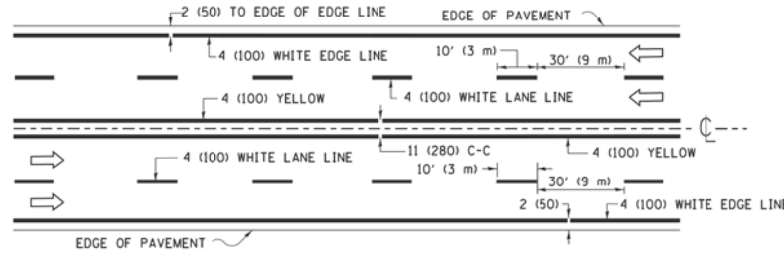
TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS  
 (SNOW-PLOW RESISTANT) (TC-11)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

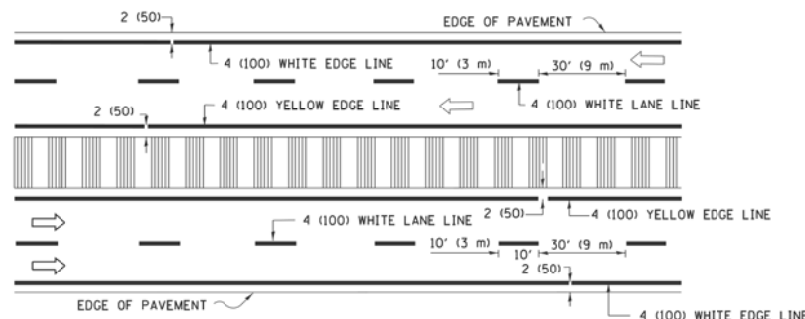
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	69
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

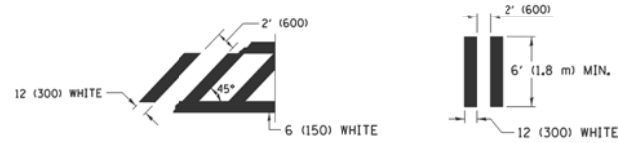
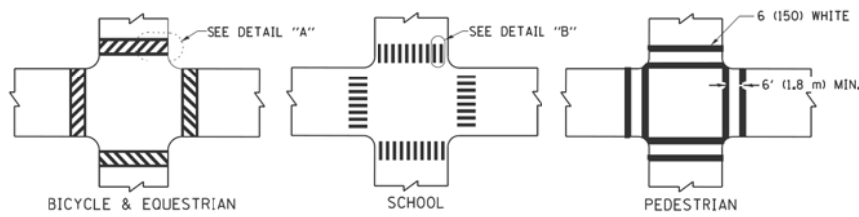


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

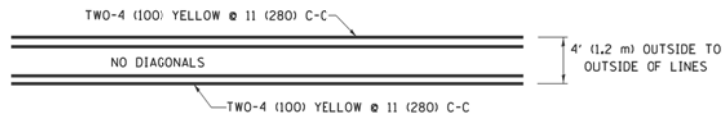


**DETAIL "A"**

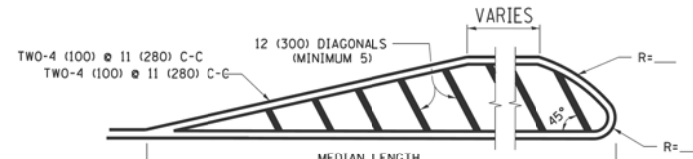
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



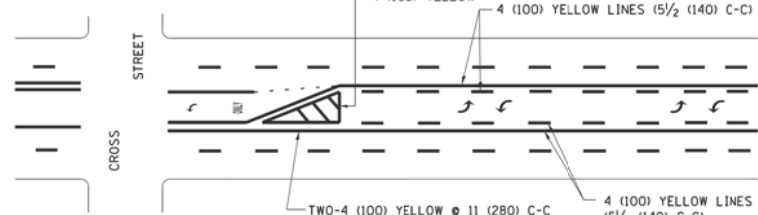
**4' (1.2 m) WIDE MEDIANS ONLY**



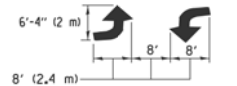
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

**MEDIANS OVER 4' (1.2 m) WIDE**

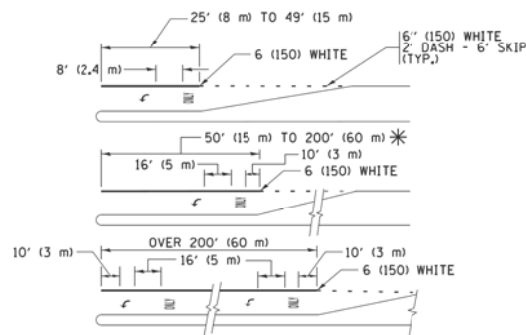


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

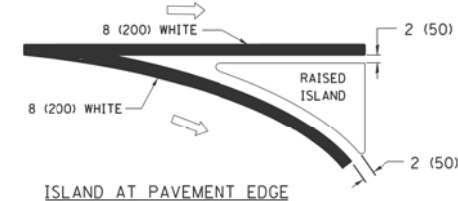
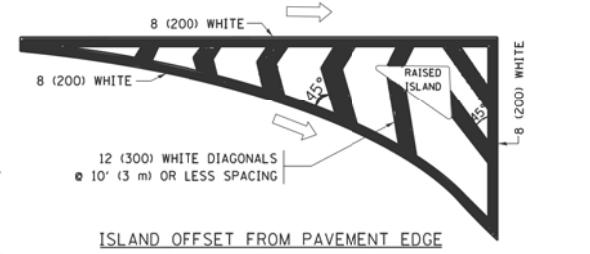


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

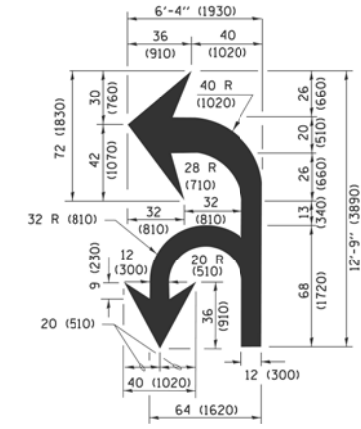
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

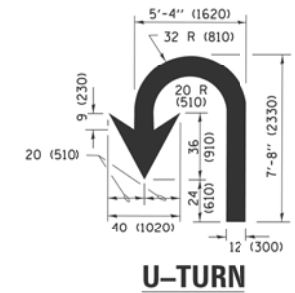
**TYPICAL TURN LANE MARKING**



**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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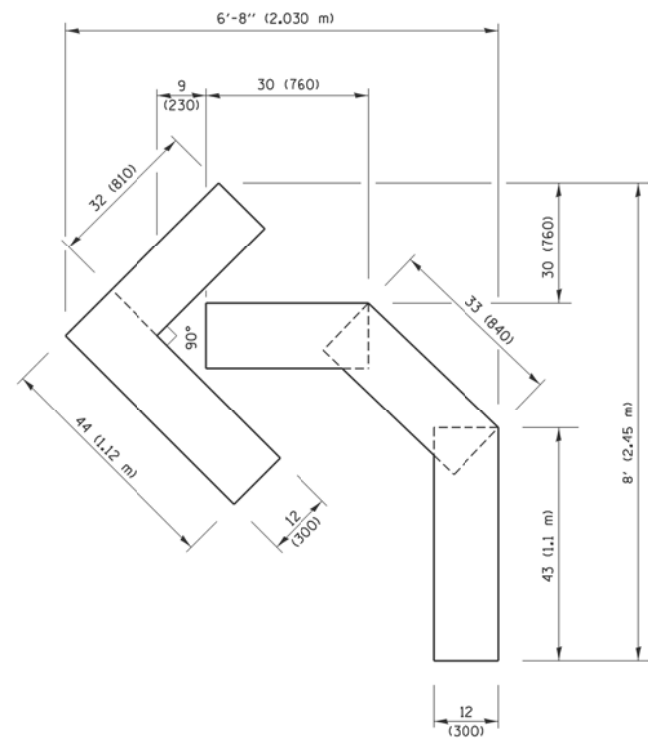
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS (TC-13)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

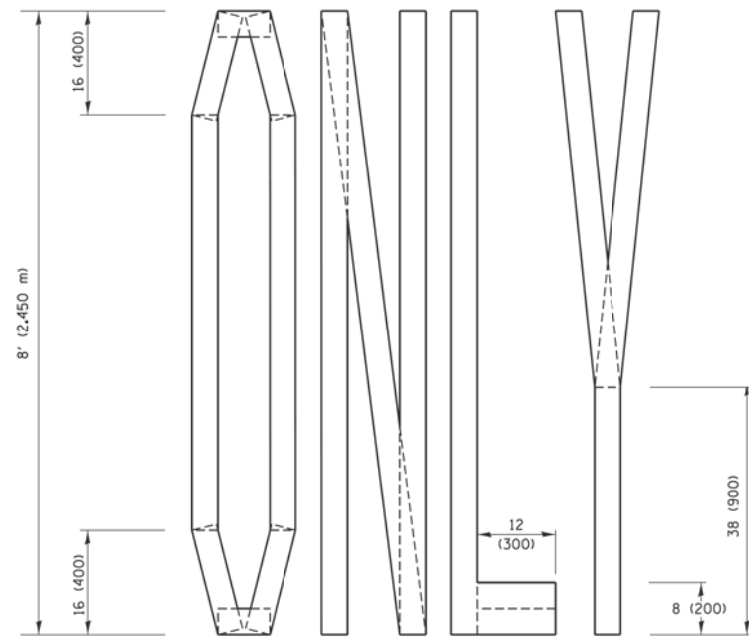
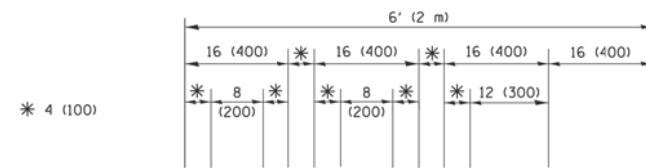
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	70
CONTRACT NO. 60R80			ILLINOIS FED. AID PROJECT	





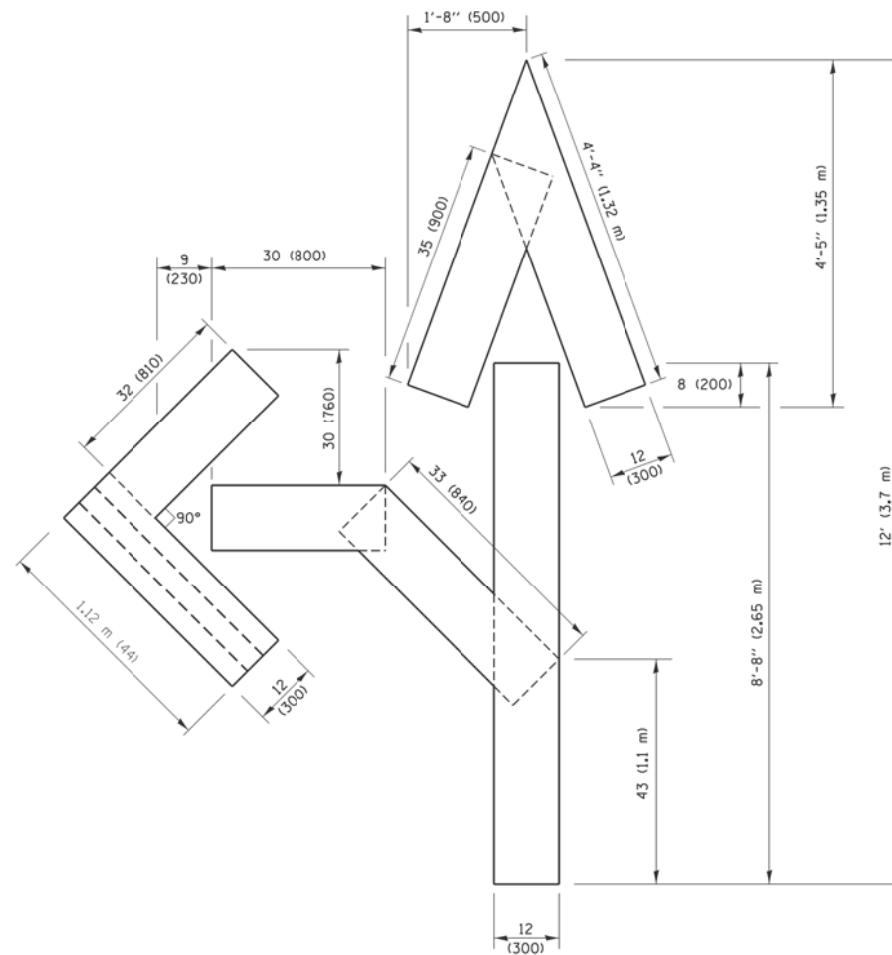
**QUANTITY**

4 (100) LINE = 45.5 ft. (13.9 m)  
15.2 sq. ft. (1.41 sq. m)



**QUANTITY**

4 (100) LINE = 64.1 ft. (19.5 m)  
21.4 sq. ft. (1.99 sq. m)

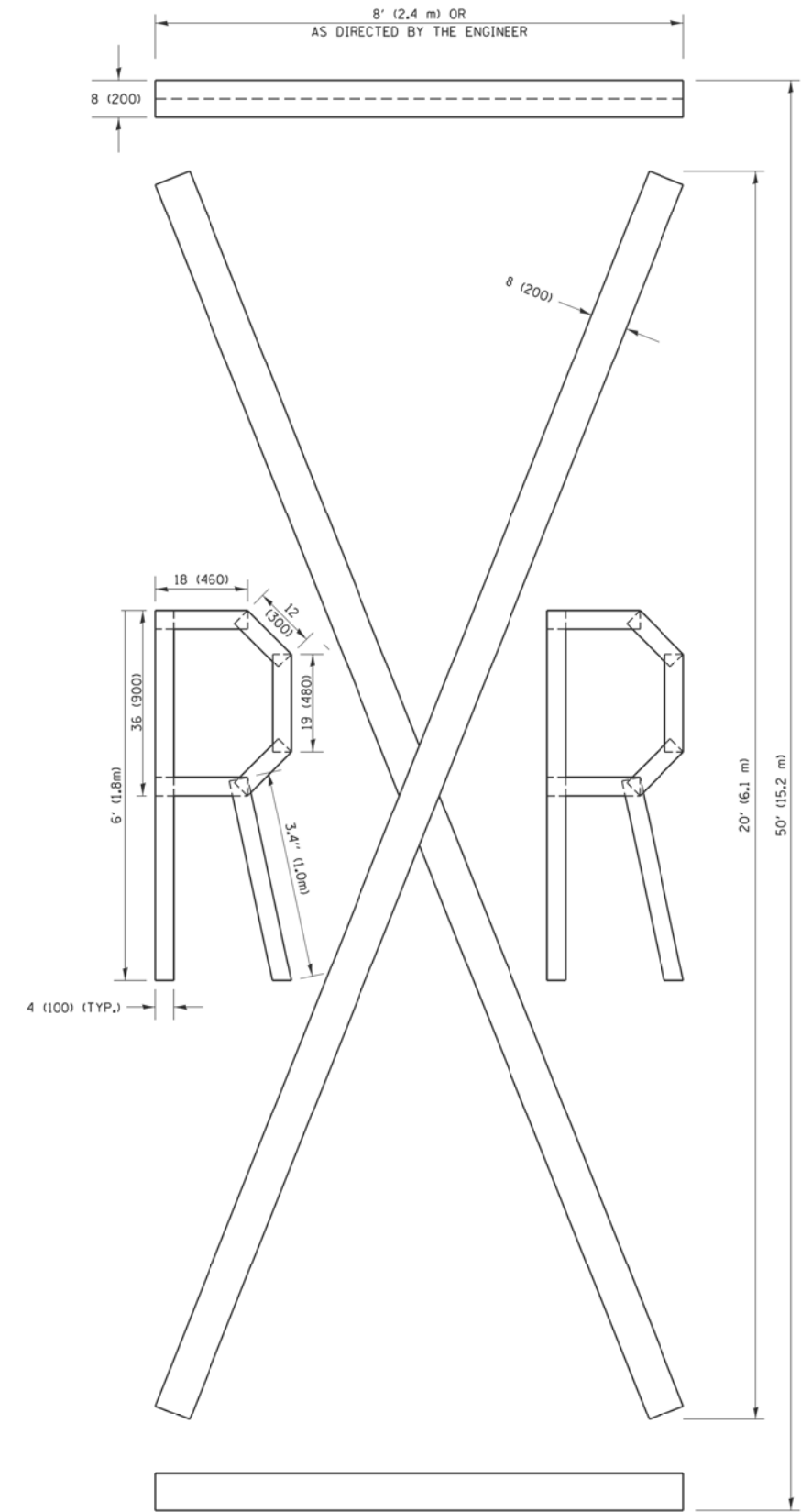


**QUANTITY**

4 (100) LINE = 82.5 ft. (25.1 m)  
27.5 sq. ft. (2.53 sq. m)

**NOTE:**

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**

4 (100) LINE = 225.9 ft. (68.9 m)  
75.3 sq. ft. (6.99 sq. m)

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

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PLOT DATE = 3/12/2019	CHECKED - TP	REVISED -
	DATE - 3/12/19	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	71
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				

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**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

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

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

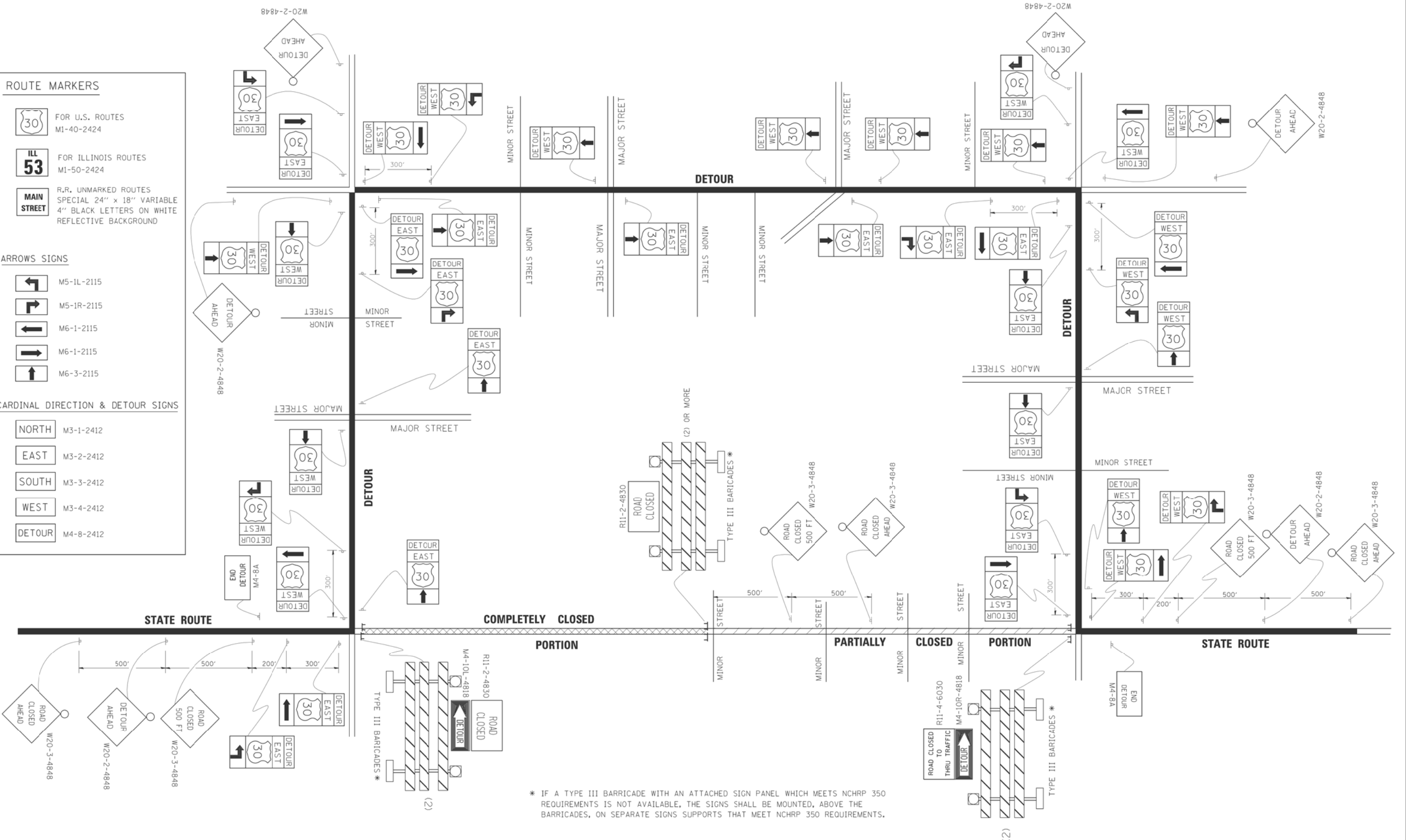
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



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

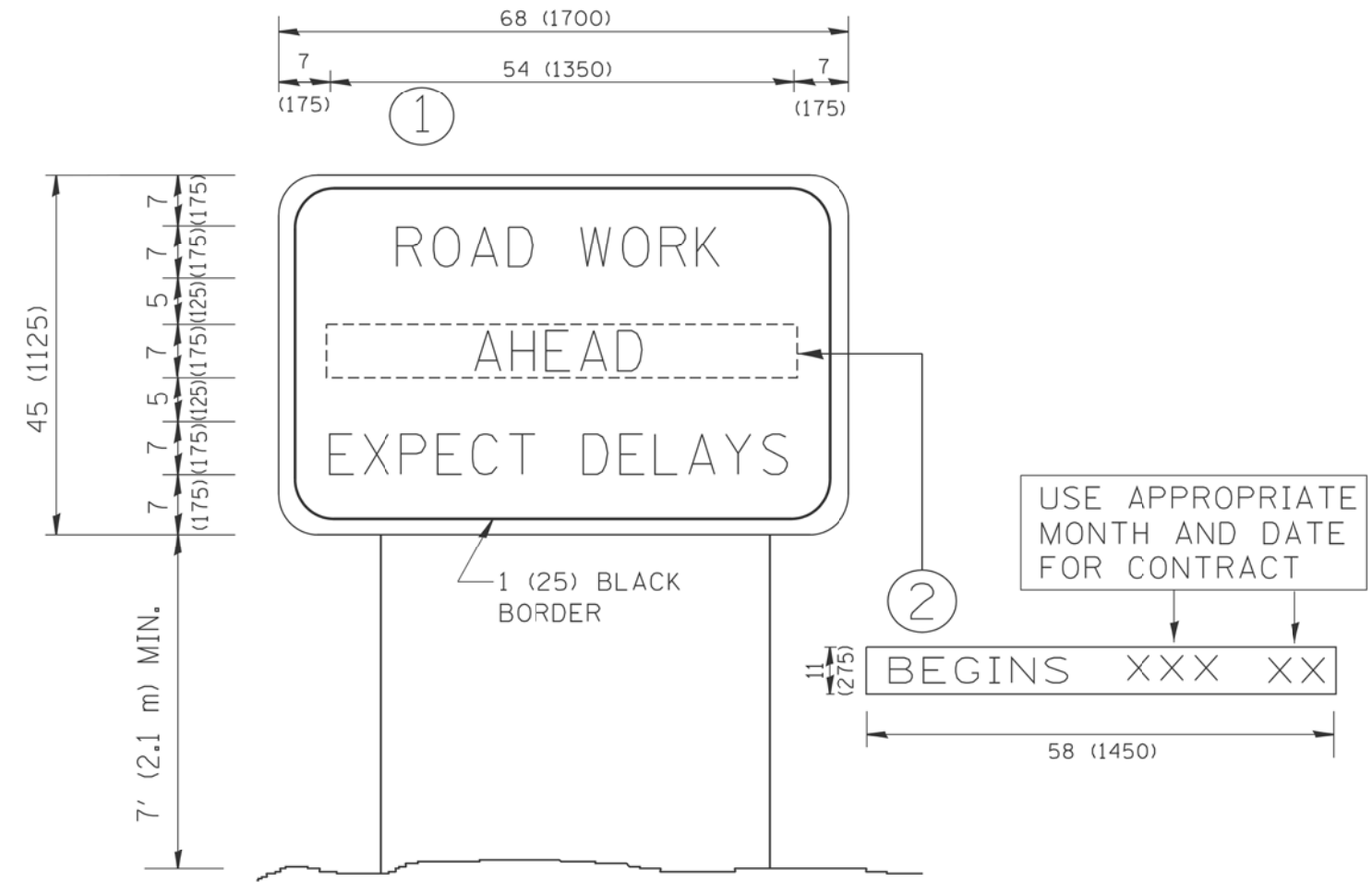


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PLOT DATE = 3/12/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)</b>	
SCALE: NONE	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	72
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

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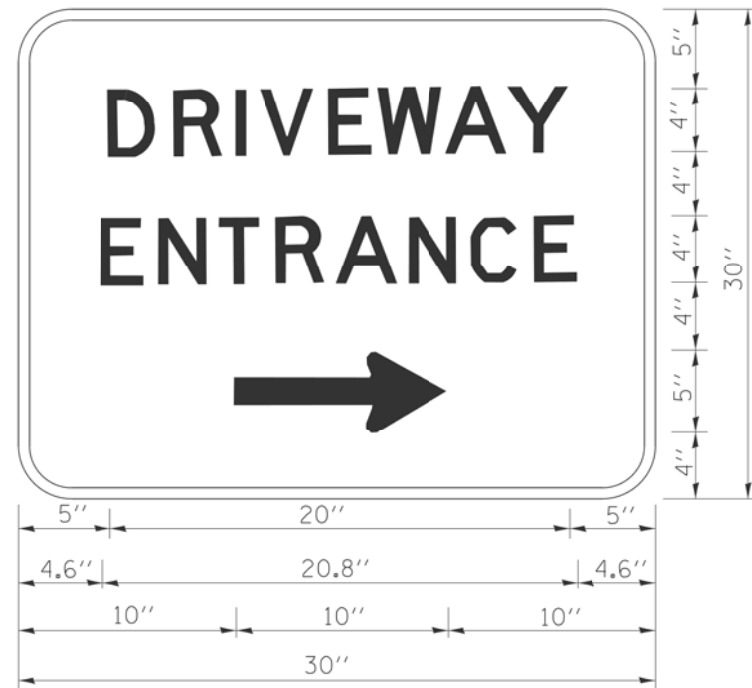
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PLOT DATE = 3/12/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN (TC-22)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	73
CONTRACT NO. 60R80				
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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PLOT DATE = 3/12/2019	DATE - 3/12/19	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING (TC-26)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3509	2011-217-BR	COOK	74	74
CONTRACT NO. 60R80			ILLINOIS FED. AID PROJECT	