

078

03-08-2019 LETTING ITEM 078

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* 75 + 2 = 77 TOTAL SHEETS

PLAN DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1112	584-B-BR(11)	COOK	75	1
ILLINOIS			CONTRACT NO. 60R69	

D-91-202-12



FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

## FAU 1312 : GOLF ROAD OVER EAST & WEST FORK N. BRANCH CHICAGO RIVER SECTION 584-B-BR(11) PROJECT STP-6ISX(190)

### BRIDGE REPAIRS COOK COUNTY C-91-202-12

**TRAFFIC DATA:**

**GOLF ROAD**

EXISTING ADT = 31,600 (2014)  
POSTED SPEED = 40 - 45 MPH

**FUNCTIONAL CLASSIFICATION:**

MINOR ARTERIAL

PROJECT IS LOCATED IN THE  
VILLAGE OF MORTON GROVE

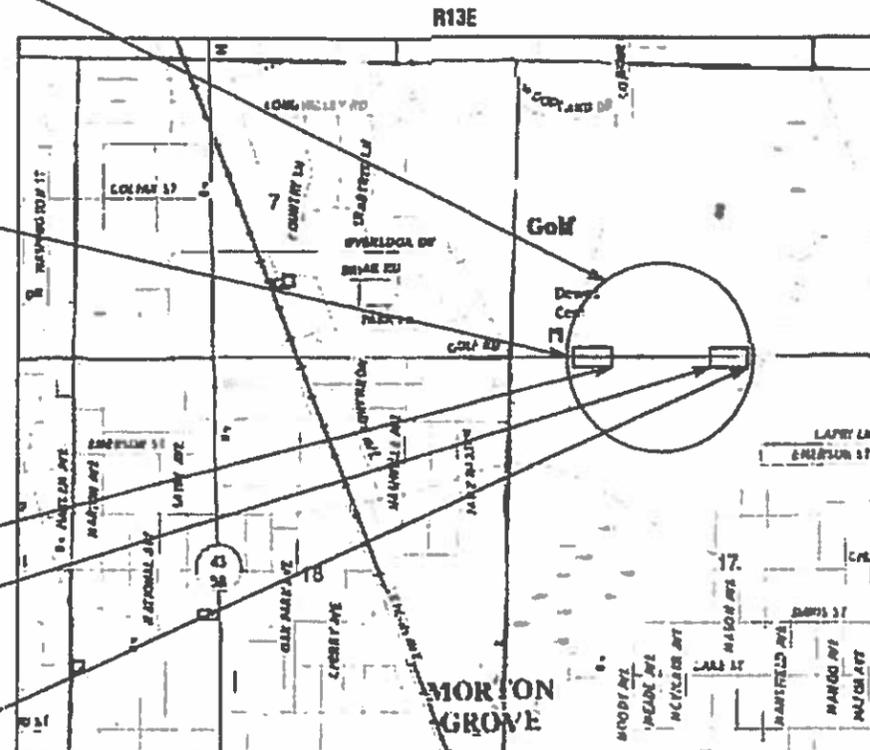
GOLF RD OVER N.  
BRANCH CHICAGO RIVER  
STRUCTURE NO. 016-0355  
STRUCTURE NO. 016-0356  
STRUCTURE NO. 016-1256  
STRUCTURE NO. 016-1257

IMPROVEMENT BEGINS  
STA. 179+86.30

IMPROVEMENT ENDS  
STA. 182+17.35

IMPROVEMENT BEGINS  
STA. 196+54.95

IMPROVEMENT ENDS  
STA. 202+63.43



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

AES SERVICES INC.  
SHEETS 01-33, 69-75.

DATE: 8/28/2008  
R. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 8/30/2019

AES SERVICES INC.  
SHEETS 34-40, 41

DATE: 8/28/2008  
R. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 8/30/2019

NBM ENGINEERING  
SHEETS 47-67

DATE: 8/28/2008  
R. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 8/30/2019

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 20 18

Anthony J. Quigley / AS  
REGIONAL ENGINEER

Feb 1 20 19

Scott E. [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1 20 19

David P. [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

GROSS LENGTH OF PROJECT = 2277 FEET = 0.43 MILE  
NET LENGTH OF PROJECT = 840 FEET = 0.16 MILE

CONTRACT NO. 60R69

**AES**  
ENGINEERS & SURVEYORS

111 S. Wacker Drive,  
Suite 2010  
Chicago, IL 60606  
Ph: 312-235-8783

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OF THE STATE OF ILLINOIS

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**STATE STANDARDS**

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
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280001-07	TEMPORARY EROSION CONTROL SYSTEMS
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630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH TO 55 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**COMMITMENTS**

NONE

**GENERAL NOTES:**

1. THESE PLANS HAVE BEEN PREPARED FROM INFORMATION ACQUIRED FROM EXISTING PLANS AND NOTES RECEIVED FROM IDOT FIELD MAINTENANCE ENGINEERS.
2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
3. FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) OR 811 FOR LOCATIONS OF THE EXISTING UTILITIES.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
6. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
7. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS ADJOINING RESIDENTIAL AREAS.
9. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING CONSTRUCTION.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ASSURE THAT NO DEBRIS FALLS INTO THE NORTH BRANCH OF THE CHICAGO RIVER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.
11. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 FOR ARTERIALS A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
12. THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGI, IDOT'S AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT DON.CHIARUGI@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
13. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
14. ACCESS SHALL BE PROVIDED AT ALL TIMES TO PROPERTIES ABUTTING THE PROPOSED IMPROVEMENT.
15. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
16. CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGING THE IDOT INTERCONNECT LINE SHOWN ON THE NORTH SIDE OF THE BRIDGES. ANY DAMAGE WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.
17. CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGING THE NICOR GAS MAIN IN PROXIMITY TO AND ATTACHED TO THE UNDERSIDE OF EACH STRUCTURE THAT IS A MAJOR FEED TO THE EAST. CONTRACTOR MEANS AND METHODS NEED TO BE REVIEWED PRIOR TO CONSTRUCTION START. CONTRACTOR TO CONTACT NICOR [BRUCE KOPPANG (630) 388-3046 BKOPPAN@SOUTHERNCO.COM] TO ENSURE ADEQUATE PROTECTION OF THE PIPELINE, WHICH MAY INVOLVE VIBRATION MONITORING OR OTHER MEANS. NO COMPENSATION WILL BE PROVIDED FOR ADDITIONAL COORDINATION WITH NICOR.
18. ANY VEGETATION CLEARING OR TRIMMING REQUIRED TO ACCOMPLISH THE WORK, SUCH AS GUARDRAIL REMOVAL OR PLACEMENT, SHALL BE CONSIDERED INCLUDED IN THE COST OF SUCH WORK. THE CONTRACTOR SHALL EXERCISE CAUTION TO AVOID UNNECESSARY DAMAGE TO TREES.

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	111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783	USER NAME = mokrent DESIGNED - TOM DRAWN - TOM CHECKED - MO DATE - 08/13/2018	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GOLF ROAD BRIDGE REPAIRS OVER EAST &amp; WEST FORK</b> <b>N. BRANCH CHICAGO RIVER</b> <b>INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES</b>	F.A.U RTE. 1312	SECTION 584-B-BR(11)	COUNTY COOK	TOTAL SHEETS 75	SHEET NO. 02	CONTRACT NO. 60R69 ILLINOIS FED. AID PROJECT
					SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.						

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE					
				80% FED 20% STATE					
				ROADWAY	BRIDGE	BOX CULVERT	BRIDGE	BOX CULVERT	
				0004	0047	0053	0047	0053	
				SN 016-0355	SN 016-1256	SN 016-0356	SN 016-1257		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	569	569					
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23					
25100630	EROSION CONTROL BLANKET	SQ YD	569	569					
28000400	PERIMETER EROSION BARRIER	FOOT	1261	1261					
28000510	INLET FILTERS	EACH	12	12					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	575	575					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	624	624					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	125	125					
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	70	70					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	596	596					
45200300	JOINT OR CRACK FILLING	POUND	42	42					
50102400	CONCRETE REMOVAL	CU YD	60	5	23		32		

REV. - MS

\* SPECIALTY ITEMS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 54 SHEETS STA. OF TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	03
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FED 20% STATE ROADWAY	80% FED 20% STATE BRIDGE	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE BRIDGE	80% FED 20% STATE BOX CULVERT
				0004	0047	0053	0047	0053
					SN 016-0355	SN 016-1256	SN 016-0356	SN 016-1257
50104000	BRIDGE RAIL REMOVAL	FOOT	14				14	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	75.6		40.0		35.6	
50300260	BRIDGE DECK GROOVING	SQ YD	685		254		431	
50300300	PROTECTIVE COAT	SQ YD	164		57		107	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	12200		6040		6160	
50800515	BAR SPLICERS	EACH	84		34		50	
50800530	MECHANICAL SPLICERS	EACH	180		96		84	
50900105	ALUMINUM RAILING, TYPE L	FOOT	83		83			
52000110	PREFORMED JOINT STRIP SEAL	FOOT	57				57	
59000200	EPOXY CRACK INJECTION	FOOT	137			54	15	68
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	7	7				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	596	596				
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	235	235				
* 63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	38	38				

REV. - MS

\* SPECIALTY ITEMS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	04
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				URBAN				
				80% FED 20% STATE ROADWAY	80% FED 20% STATE BRIDGE	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE BRIDGE	80% FED 20% STATE BOX CULVERT
				0004	0047	0053	0047	0053
				SN 016-0355	SN 016-1256	SN 016-0356	SN 016-1257	
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	44	44				
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2				
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2				
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6	6				
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	6				
63200310	GUARDRAIL REMOVAL	FOOT	314	314				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5				
67100100	MOBILIZATION	L SUM	1	1				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2412	2,412				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	804	804				
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	42	42				
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	28256	28,256				
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	200	200				
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	80	80				
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	37	37				

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\* SPECIALTY ITEMS

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Chicago, IL 60606  
Ph: 312-235-6783

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	05
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FED 20% STATE ROADWAY	80% FED 20% STATE BRIDGE	80% FED 20% STATE BOX CULVERT	80% FED 20% STATE BRIDGE	80% FED 20% STATE BOX CULVERT
				0004	0047	0053	0047	0053
				SN 016-0355	SN 016-1256	SN 016-0356	SN 016-1257	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10790	10790				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	145	145				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	25	25				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	113	113				
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1048	1048				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	24	24				
	78100200 TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	292	292				
* 78100300	REPLACEMENT REFLECTOR	EACH	698	698				
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	22	22				
	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	20	20				
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	3				
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1				
	X0326766 CLEAN & RESEAL RELIEF JOINT	FOOT	330	162	88		80	
	X0327638 STREAM GAUGE	EACH	2		1		1	
	X0327980 PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4312	4312				
* X2700003	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	131	131				

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\* SPECIALTY ITEMS

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

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK**  
**N. BRANCH CHICAGO RIVER**  
**SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	06
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FED 20% STATE				
				ROADWAY	BRIDGE	BOX CULVERT	BRIDGE	BOX CULVERT
				0004	0047	0053	0047	0053
		URBAN		SN 016-0355	SN 016-1256	SN 016-0356	SN 016-1257	
* X2700004	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7"	FOOT	131	131				
X4421790	CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL)	SQ YD	80	80				
X5030530	FLOOR DRAIN EXTENSION	EACH	4			4		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
X7010410	SPEED DISPLAY TRAILER	CAL MO	2	2				
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	698	698				
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	8			8		
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	20		20			
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	687	72	238		377	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	615		238		377	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	510		200	64	246	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	62			14		48
Z0015550	DEBRIS REMOVAL	CU YD	50		50			
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	24		10		14	
Z0022800	FENCE REMOVAL	FOOT	50		50			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	6	6				
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1				

REV. - MS

\* SPECIALTY ITEMS

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Chicago, IL 60606  
Ph: 312-235-6783

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STATE OF ILLINOIS  
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GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUMMARY OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	07
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

**PAVEMENT MARKING SCHEDULE**

LOCATION	SIDE	THERMOPLASTIC PAVEMENT MARKING					PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7"	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	PAVEMENT MARKING REMOVAL WATER BLASTING		
		78000200	78000400	78000600	78000650	X2700004				78009004	X0327980
		(YELLOW)	(WHITE)							WHITE 4"+1.5" BLACK (EACH SIDE)	(WHITE)
STATION TO STATION	LT/RT	LINE 4"	LINE 4"	LINE 6"	LINE 12"	LINE 24"	LINE 7"	LINE 4"	(SQ. FT.)		
165+00.00 TO 169+07.00	LT/RT	-	203.50	-	-	-	-	-	67.8		
169+07.00 TO 169+94.00	LT/RT	-	43.50	21.75	-	-	-	-	25.4		
169+94.00 TO 170+44.00	LT/RT	-	25	50	-	-	-	-	33.3		
170+44.00 TO 170+44.00	LT/RT	-	-	-	-	33	-	-	66		
171+34.00 TO 171+34.00	LT/RT	-	-	-	-	33	-	-	66		
171+34.00 TO 171+90.00	LT/RT	112	28	-	-	-	-	-	46.7		
171+34.00 TO 171+82.00	LT/RT	-	-	48	-	-	-	-	24		
171+82.00 TO 172+81.00	LT/RT	-	-	25	-	-	-	-	12.5		
171+90.00 TO 174+57.00	LT/RT	534	133.50	-	25	-	-	-	247.5		
174+57.00 TO 177+33.00	LT/RT	552	138	-	-	-	-	-	230		
177+34.00 TO 177+34.00	LT/RT	-	-	-	-	22	-	-	44		
178+23.00 TO 178+23.00	LT/RT	-	-	-	-	25	-	-	50		
178+23.00 TO 180+52.00	LT/RT	458	114.50	-	-	-	-	-	190.8		
180+52.00 TO 181+70.00	LT/CTR/RT	-	-	-	-	-	59	472	177		
181+70.00 TO 198+96.00	LT/RT	3452	863	-	-	-	-	-	1437.9		
198+96.00 TO 200+40.00	LT/CTR/RT	-	-	-	-	-	72	576	216		
200+40.00 TO 216+93.00	LT/RT	3306	826.50	-	-	-	-	-	1377.4		
<b>TOTAL</b>	<b>LT/RT</b>	<b>8414</b>	<b>2376</b>	<b>145</b>	<b>25</b>	<b>113</b>	<b>131</b>	<b>1048</b>	<b>4312</b>		

**SHORT TERM PAVEMENT MARKING SCHEDULE**

LOCATION	SIDE	70300100	70300150
		SHORT TERM PAVEMENT MARKING (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ. FT.)
165+00.00 TO 169+07.00	LT/RT	40.70	13.43
169+07.00 TO 169+94.00	LT/RT	30.45	10.05
169+94.00 TO 170+44.00	LT/RT	55.00	55
170+44.00 TO 170+44.00	LT/RT	198	66
171+34.00 TO 171+34.00	LT/RT	198	66
171+34.00 TO 171+82.00	LT/RT	24	8
171+82.00 TO 171+90.00	LT/RT	4.5	1.47
171+90.00 TO 172+81.00	LT/RT	59.15	19.72
172+81.00 TO 174+57.00	LT/RT	70.40	23.47
174+57.00 TO 177+33.00	LT/RT	82.80	27.60
177+33.00 TO 177+33.00	LT/RT	138	46
178+23.00 TO 178+23.00	LT/RT	150	50
178+23.00 TO 217+00.00	LT/RT	1163.10	383.82
180+52.00 TO 181+70.00	LT/RT	9.44	3.12
198+96.00 TO 200+40.00	LT/RT	11.52	3.80
217+00.00 TO 221+30.00	LT/RT	86.00	28.38
2 LEFT TURN AT OVERLOOK	LT/RT	91	30.03
<b>TOTAL</b>	<b>LT/RT</b>	<b>2412</b>	<b>804</b>

**RAISED REF PVT MK REMOVAL AND PLACEMENT**

LOCATION	78300200	78100100
	RAISED REF PVT MK REM (EACH)	RAISED REF PVT MKR (EACH)
SN:016-0355		
EB	1	3
WB	1	3
EB	3	3
WB	3	3
SN:016-0356		
EB	3	3
WB	3	3
EB	3	3
WB	3	3
<b>TOTAL</b>	<b>20</b>	<b>24</b>

NOTE: ACTUAL LOCATION WILL BE SAME AS EXISTING.

**HOT MIX ASPHALT SCHEDULE**

LOCATION	40600982	44000156	40603340	40600290
	HMA SURF REM BUTT JOINT (SQ YD)	HMA SURF REM 1 3/4" (SQYD)	HMA SC "D" N70 (TON)	BIT MATLS TACK CT (POUND)
SN:016-0355				
180+15.00 (RELIEF JOINT)	-	10	1	4
BUTT JOINT	156	-	15	70
APPROACH SLAB	-	-	15	68
APPROACH SLAB	-	-	15	68
BUTT JOINT	156	-	15	70
180+13.25 (RELIEF JOINT)	-	20	2	9
SN:016-0356				
196+56.00 (RELIEF JOINT)	-	20	2	9
BUTT JOINT	156	-	15	70
APPROACH SLAB	-	-	14	64
APPROACH SLAB	-	-	14	64
BUTT JOINT	156	-	15	70
202+51.00 (RELIEF JOINT)	-	20	2	9
<b>TOTAL</b>	<b>624</b>	<b>70</b>	<b>125</b>	<b>575</b>

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111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/13/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SCHEDULE OF QUANTITIES SHEET 1**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	08
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

**PAVEMENT MARKING TAPE, TYPE IV SCHEDULE**

LOCATION	DESCRIPTION	70300904	
		(FOOT)	(FOOT)
		(WHITE)	(YELLOW)
STATION TO STATION		LINE 4"	LINE 4"
<b>STAGE 1 / EASTBOUND</b>			
165+00.00 TO 168+20.00	UPSTREAM TAPER / SOLID YELLOW	-	320
168+20.00 TO 169+07.00	LEFT TURN TAPER/ SOLID YELLOW	-	87
169+28.00 TO 169+93.00	LEFT TURN TAPER/ SOLID WHITE	65.00	-
169+28.00 TO 170+43.00	TANGENT / SOLID YELLOW	-	115.00
171+33.00 TO 176+33.00	TANGENT / SOLID YELLOW	-	500.00
179+40.00 TO 183+40.00	EDGE LINE / SOLID WHITE	400.00	-
194+76.00 TO 204+00.00	EDGE LINE / SOLID WHITE	924.00	-
208+80.00 TO 212+80.00	TANGENT / SOLID YELLOW	-	400.00
212+80.00 TO 216+80.00	TANGENT / SOLID YELLOW	-	400.00
<b>STAGE 1 / WESTBOUND</b>			
175+33.00 TO 176+33.00	TAPER / SOLID WHITE	100.00	-
172+70.00 TO 176+33.00	DOWNSTREAM TAPER SOLID YELLOW	-	363.00
176+33.00 TO 177+33.00	TANGENT / 2 SOLID YELLOW & WHITE	100.00	200.00
178+25.00 TO 179+40.00	TANGENT / 2 SOLID YELLOW & WHITE	115.00	230.00
179+40.00 TO 179+90.00	TAPER / 2 SOLID YELLOW & WHITE	50.00	100.00
179+90.00 TO 182+90.00	TANGENT / 2 SOLID YELLOW & WHITE	300.00	600.00
182+90.00 TO 183+40.00	TAPER / 2 SOLID YELLOW & WHITE	50.00	100.00
183+40.00 TO 195+25.00	TANGENT / 2 SOLID YELLOW & WHITE	1185.00	2370.00
195+25.00 TO 197+75.00	TAPER / 2 SOLID YELLOW & WHITE	50.00	100.00
197+75.00 TO 203+30.00	TANGENT / 2 SOLID YELLOW & WHITE	755.00	1510.00
203+30.00 TO 204+00.00	TAPER / 2 SOLID YELLOW & WHITE	70.00	140.00
204+00.00 TO 208+76.50	TANGENT / 2 SOLID YELLOW & WHITE	476.50	953.00
208+76.50 TO 212+76.50	UPSTREAM TAPER SOLID YELLOW & WHITE	400.00	400.00
212+76.50 TO 216+76.50	TANGENT / SOLID YELLOW & WHITE	400.00	400.00
216+76.50 TO 221+26.50	UPSTREAM TAPER / SOLID WHITE	450.00	-
CONTINUED			

**PAVEMENT MARKING TAPE, TYPE IV SCHEDULE**

LOCATION	DESCRIPTION	70300904	
		(WHITE) (FOOT)	(YELLOW) (FOOT)
STATION TO STATION		LINE 4"	LINE 4"
<b>STAGE 2 / EASTBOUND</b>			
166+47.00 TO 169+67.00	UPSTREAM TAPER / SOLID WHITE	320.00	-
169+67.00 TO 170+45.00	TANGENT / SOLID WHITE	78.00	-
171+33.00 TO 172+33.00	TANGENT / SOLID WHITE	100.00	-
172+33.00 TO 176+33.00	UPSTREAM TAPER / SOLID WHITE	400.00	-
176+33.00 TO 177+33.00	TANGENT / SOLID WHITE	100.00	-
178+28.00 TO 178+93.00	TANGENT / SOLID WHITE	65.00	-
178+93.00 TO 179+43.00	TANGENT / SOLID WHITE	50.00	-
179+43.00 TO 182+93.00	TANGENT / SOLID WHITE	350.00	-
182+93.00 TO 183+38.00	TAPER / SOLID WHITE	45.00	-
184+00.00 TO 195+26.00	TANGENT / SOLID WHITE	1126.00	-
195+26.00 TO 195+76.00	TAPER / SOLID WHITE	50.00	-
195+76.00 TO 203+31.00	TANGENT / SOLID WHITE	755.00	-
203+31.00 TO 203+81.00	TAPER / SOLID WHITE	50.00	-
203+81.00 TO 204+31.00	TANGENT / SOLID WHITE	50.00	-
204+31.00 TO 205+31.00	TAPER / SOLID WHITE	100.00	-
204+31.00 TO 208+81.00	TAPER / SOLID YELLOW	-	450.00
<b>STAGE 2 / WESTBOUND</b>			
172+33.00 TO 176+33.00	UPSTREAM TAPER / SOLID YELLOW	-	400.00
173+77.00 TO 176+33.00	TANGENT / SOLID YELLOW	-	256.00
176+33.00 TO 177+33.00	TANGENT / 2 SOLID YELLOW	-	200.00
178+28.00 TO 184+13.00	EDGE LINE / SOLID WHITE	585.00	XXXXX
178+28.00 TO 178+93.00	TANGENT / SOLID YELLOW	-	130.00
178+93.00 TO 179+43.00	TAPER / SOLID YELLOW	-	100.00
179+43.00 TO 182+93.00	TANGENT / SOLID YELLOW	-	700.00
182+93.00 TO 183+43.00	TAPER / SOLID YELLOW	-	100.00
183+43.00 TO 196+09.00	TANGENT / SOLID YELLOW	-	2534.00
195+09.00 TO 204+09.00	EDGE LINE / SOLID WHITE	900.00	-
195+26.00 TO 195+76.00	TAPER / 2 SOLID YELLOW	-	100.00
195+76.00 TO 203+31.00	TANGENT / 2 SOLID YELLOW	-	1510.00
203+31.00 TO 203+81.00	TAPER / 2 SOLID YELLOW	-	100.00
203+81.00 TO 204+31.00	TANGENT / 2 SOLID YELLOW	-	100.00
204+31.00 TO 212+54.00	TANGENT / SOLID YELLOW	-	823.00
212+54.00 TO 217+04.00	TAPER / SOLID YELLOW	-	450.00
TOTAL		11130	17126

**REPLACEMENT REFLECTORS**

LOCATION	SIDE	78100300	
		REPLACEMENT REFLECTORS	
STATION TO STATION	LT/RT	LANE DIVIDER	CENTERLINE
166+47.00 bto 170+43.00	WB	10	0
171+34.00 TO 177+33.00	WB	16	30
171+34.00 TO 177+33.00	EB	16	30
178+23.00 TO 217+00.00	WB	98	194
178+23.00 TO 217+00.00	EB	98	194
217+00.00 TO 221+30.00	EB	12	0
TOTAL		250	448

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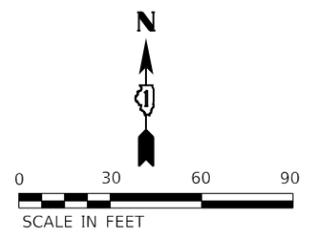
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
 N. BRANCH CHICAGO RIVER  
 SCHEDULE OF QUANTITIES SHEET 2

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	09
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	





**HMA MIXTURE REQUIREMENTS**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS MIXTURE TYPE	AIR VOIDS @ NDES	QMP
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 MM)	4% @ 70 GYR.	QC/QA
CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 MM)	4% @ 70 GYR.	QC/QA
HOT-MIX BINDER COURSE, IL-19, N70, 10"	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)		

**MIXTURE TABLE NOTES**

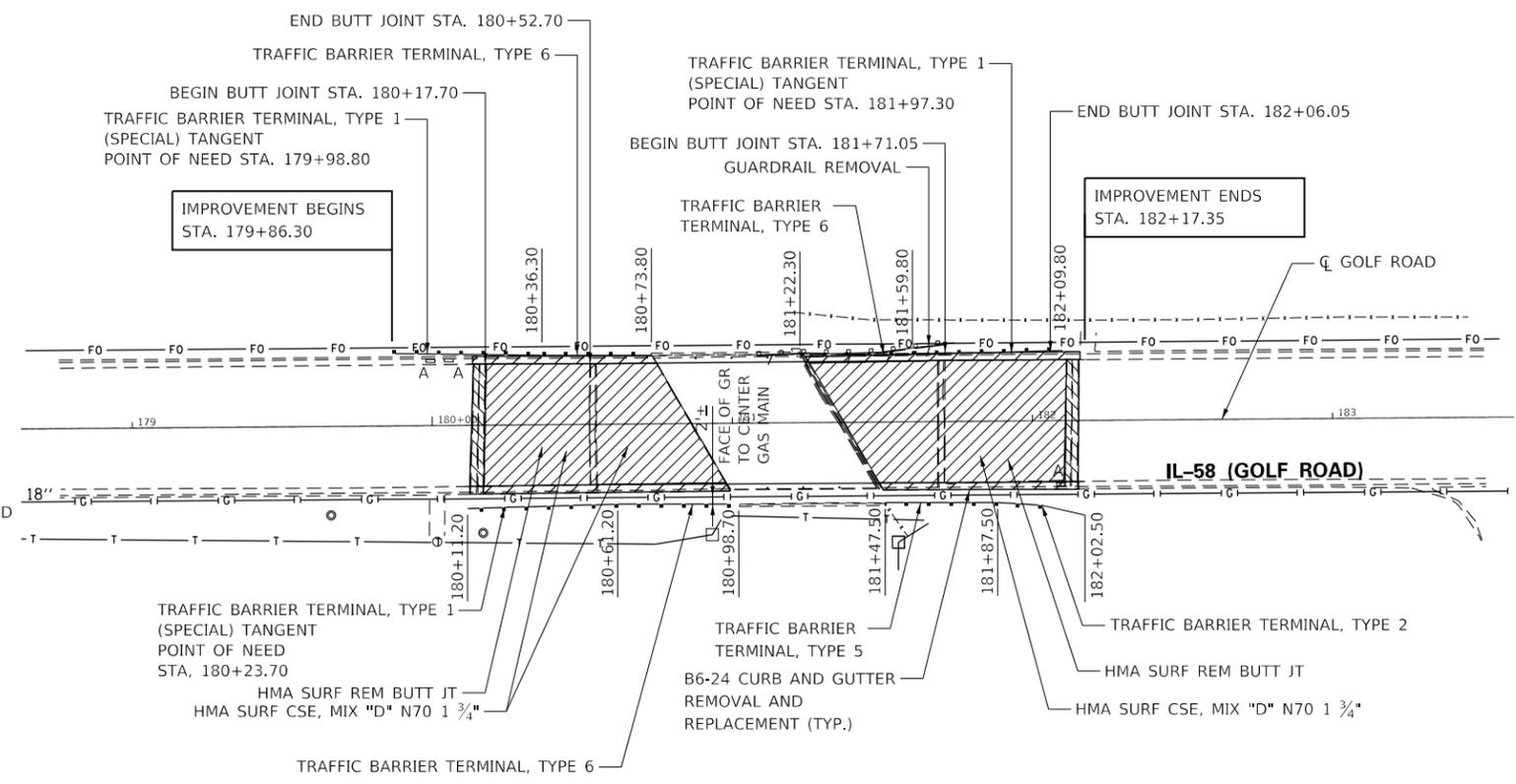
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
2. FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

**PAVEMENT RELIEF JOINT REPAIRS**

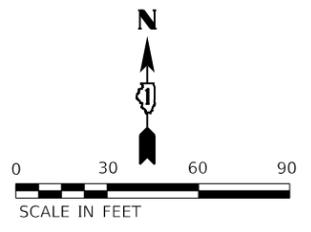
STA. 180+15.45, 182+13.10, 196+56.45, 202+50.75

EX. RELIEF JOINTS TO BE REPLACED WITH CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL).

B6.24 CURB AND GUTTER ALSO TO BE REMOVED AND REPLACED.

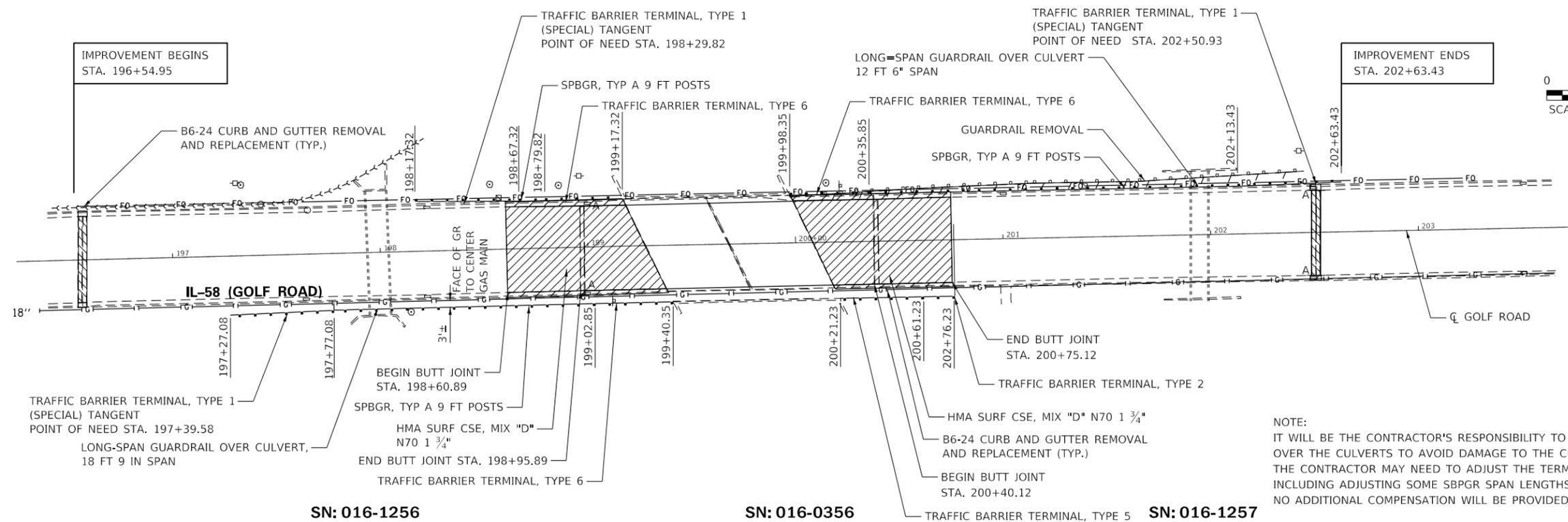


**SN: 016-0355**



**NOTE:**  
IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE THE LONG SPAN GUARDRAIL OVER THE CULVERTS TO AVOID DAMAGE TO THE CULVERTS. THE CONTRACTOR MAY NEED TO ADJUST THE TERMINAL LOCATIONS ACCORDINGLY, INCLUDING ADJUSTING SOME SBPGR SPAN LENGTHS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR NON-STANDARD LENGTHS.

A = FRAMES AND LIDS TO BE ADJUSTED



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**SN: 016-0356**

**SN: 016-1257**

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PLOT DATE = 1/17/2019	CHECKED - MO	REVISED -
	DATE - 08/13/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	11
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

**TRAFFIC CONTROL GENERAL NOTES**

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. TYPE A LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON EACH SIGN IN ADVANCE OF THE WORK DURING HOURS OF DARKNESS. ALL WARNING SIGNS SHALL BE A MINIMUM OF 48" X 48" AND HAVE A BLACK LEGEND AND BORDER ON A FLOURESCENT ORANGE REFLECTORIZED BACKGROUND.
3. ALL TYPE III BARRICADES UTILIZED FOR ROAD CLOSURES SHALL HAVE TWO LOW INTENSITY FLASHING LIGHTS MOUNTED ON TOP OF EACH BARRICADE. MAINTAIN EXISTING TRAFFIC SIGNS.
4. COVER ALL EXISTING TRAFFIC SPEED LIMIT SIGNS WHERE WORK ZONE SPEED LIMIT CHANGES ARE IMPLEMENTED.
5. WHERE 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 AREAS.
6. EXACT LOCATION OF ALL WARNING SIGNS AND BARRICADES SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
7. PRIOR TO START OF CONSTRUCTION, ALL REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO ANY ANTICIPATED CLOSURES.
9. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST TRAFFIC CONTROL AND PROTECTION (SPECIAL).

**SUGGESTED CONSTRUCTION SEQUENCE**

STAGE 1

IMPLEMENT STAGE 1 TRAFFIC CONTROL. SHIFT TRAFFIC TO SOUTH SIDE OF ROAD. WORK PROCEEDS ON NORTH SIDE.

PROCEED WITH CONSTRUCTION ON BRIDGE DECK: SCARIFICATION, DECK REPAIR, CONCRETE REPAIR, LATEX OVERLAY, SEALING AND JOINT REPLACEMENT.

CONSTRUCT BUTT JOINT IN AND REPLACE CONCRETE CURB AND GUTTER. REPAIR PAVEMENT EXPANSION JOINTS. PLACE GUARDRAIL.

STAGE 2

IMPLEMENT STAGE 2 TRAFFIC CONTROL. SHIFT TRAFFIC TO NORTH SIDE OF ROAD. WORK PROCEEDS ON SOUTH SIDE.

PROCEED WITH CONSTRUCTION ON BRIDGE DECK: SCARIFICATION, DECK REPAIR, CONCRETE REPAIR, LATEX OVERLAY, SEALING AND JOINT REPLACEMENT.

CONSTRUCT BUTT JOINT AND REPLACE CONCRETE CURB AND GUTTER. REPAIR PAVEMENT EXPANSION JOINT. PLACE GUARDRAIL.

STAGE 3

PLACE FINAL PAVEMENT MARKING.

MODEL: \\MODELNAME\$  
FILE: \\NAME\$.PLOT\$



111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = \$USERS	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISED -	
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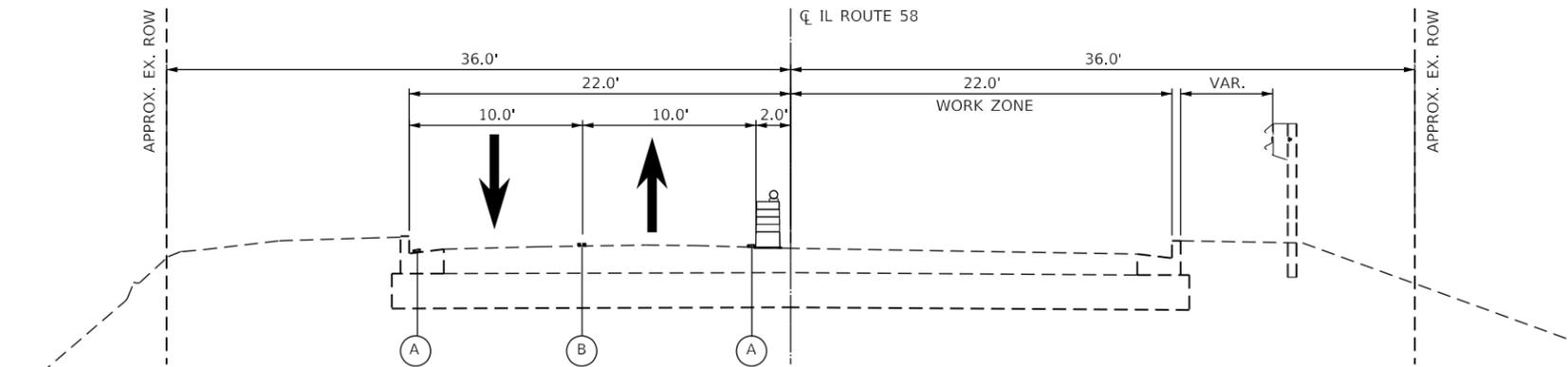
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
TRAFFIC CONTROL GENERAL NOTES**

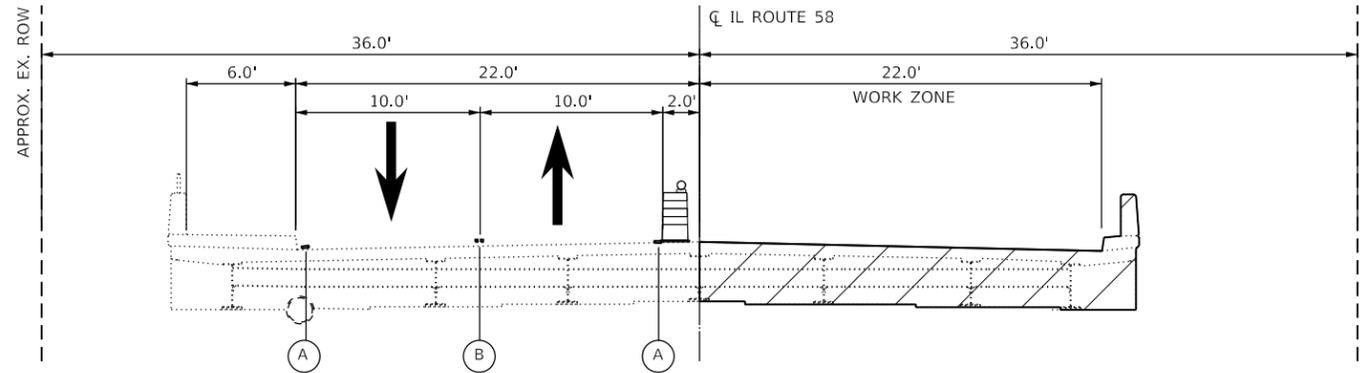
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	12
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 60R69				

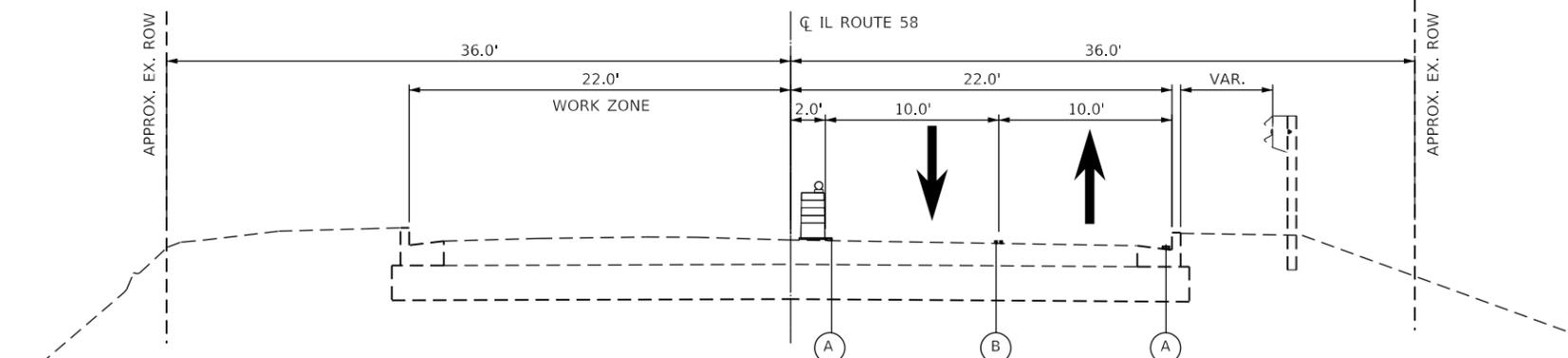
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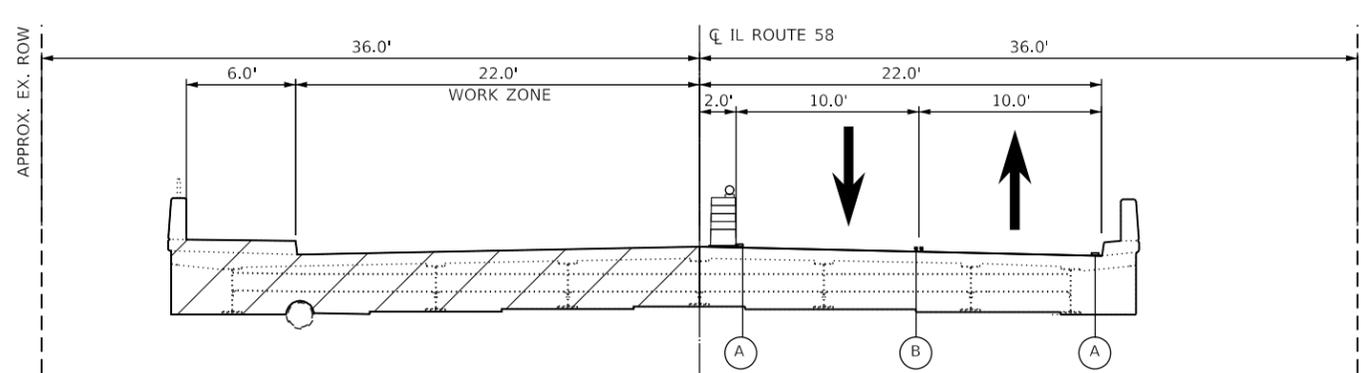
SECTION AT ROADWAY  
STAGE 1 (LOOKING WEST)



SECTION AT BRIDGE  
STAGE 1 (LOOKING WEST)



SECTION AT ROADWAY  
STAGE 2 (LOOKING WEST)



SECTION AT BRIDGE  
STAGE 2 (LOOKING WEST)

**LEGEND**

- (A) 4" SOLID WHITE TYPE IV TAPE
- (B) 4" DOUBLE YELLOW @ 11" C-C TYPE IV TAPE WITH TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER
- WORK ZONE

MODEL: \$MODELNAME\$  
FILE: \$NAME\$. \$FILES\$

**AES** ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = \$USERS\$	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MO	REVISED -
PLOT DATE = \$DATE\$	DATE - 08/13/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

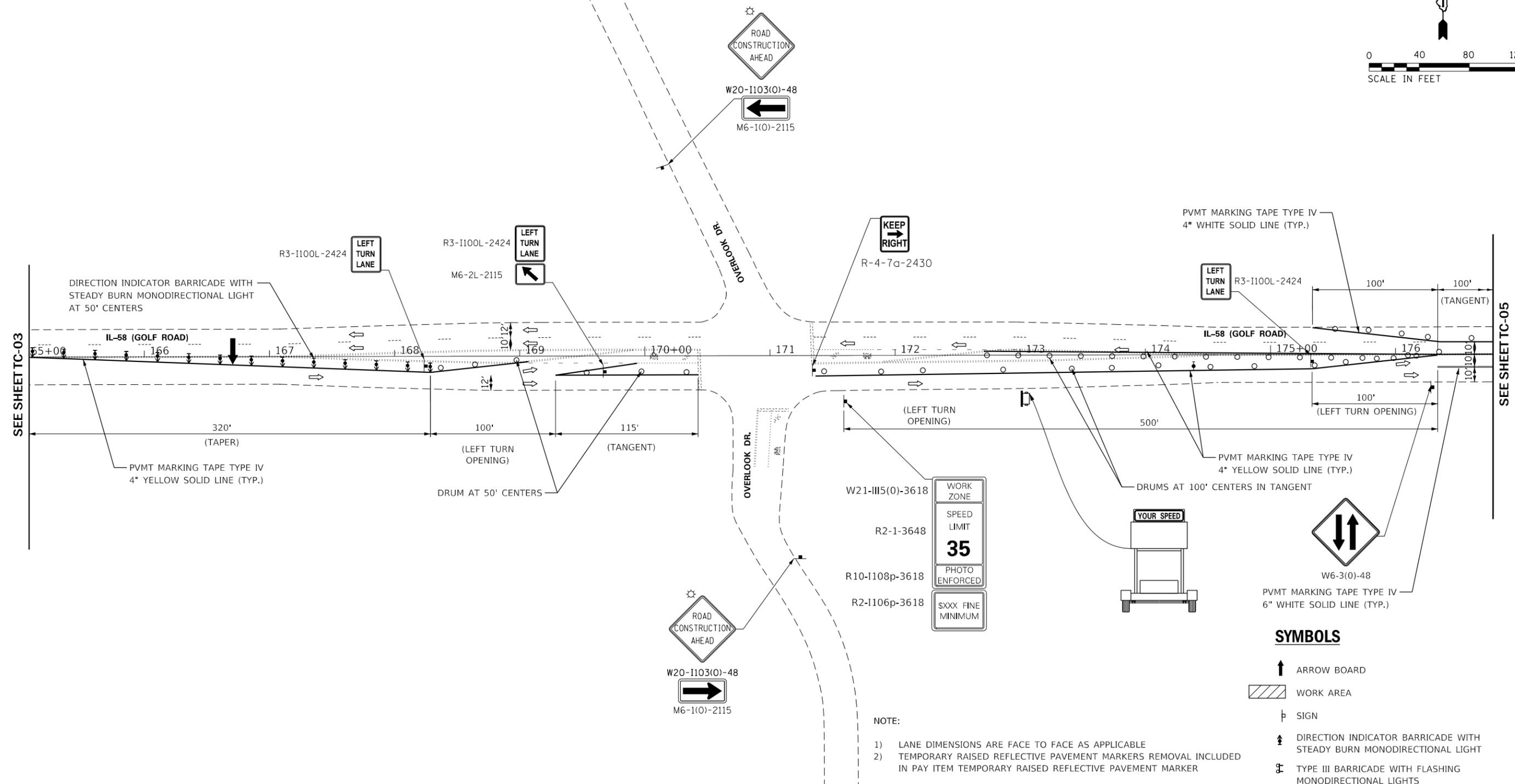
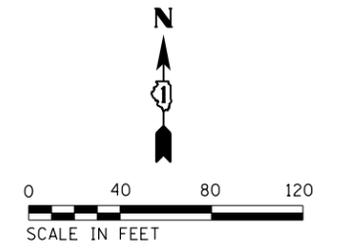
**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
MOT TYPICALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	

TC-02





- NOTE:
- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
  - 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

- SYMBOLS**
- ARROW BOARD
  - WORK AREA
  - SIGN
  - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
  - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
  - DRUM

SEE SHEET TC-03

SEE SHEET TC-05



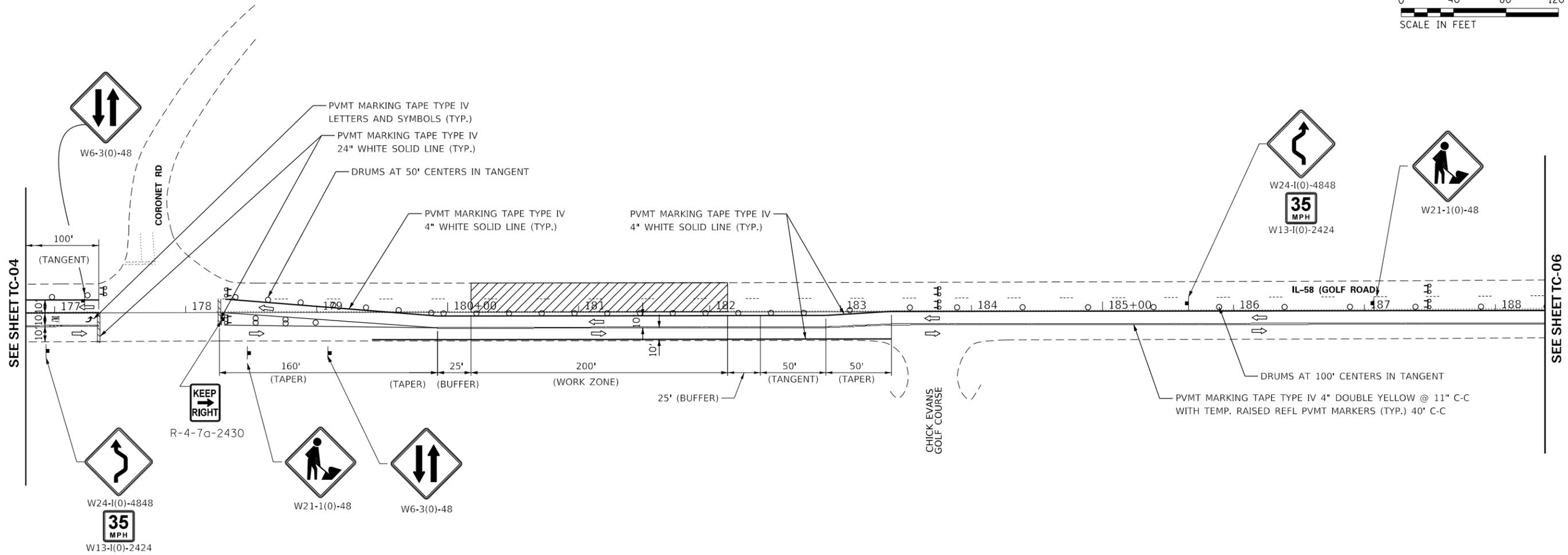
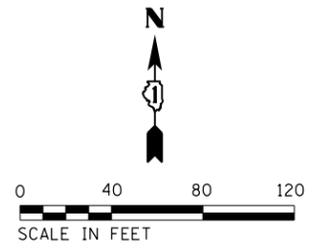
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CHECKED - MO	REVISIED -	
DATE - 08/13/2018	REVISIED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 1**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	15
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	

TC-04



**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- DRUM

**NOTE:**

- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
- 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

MODEL: S:\MODELS\MAMES FILE: TCMAP: STILES



USER NAME = \$USERS	DESIGNED - TOM	REVISED -
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DATE - 08/13/2018	REVISED -	

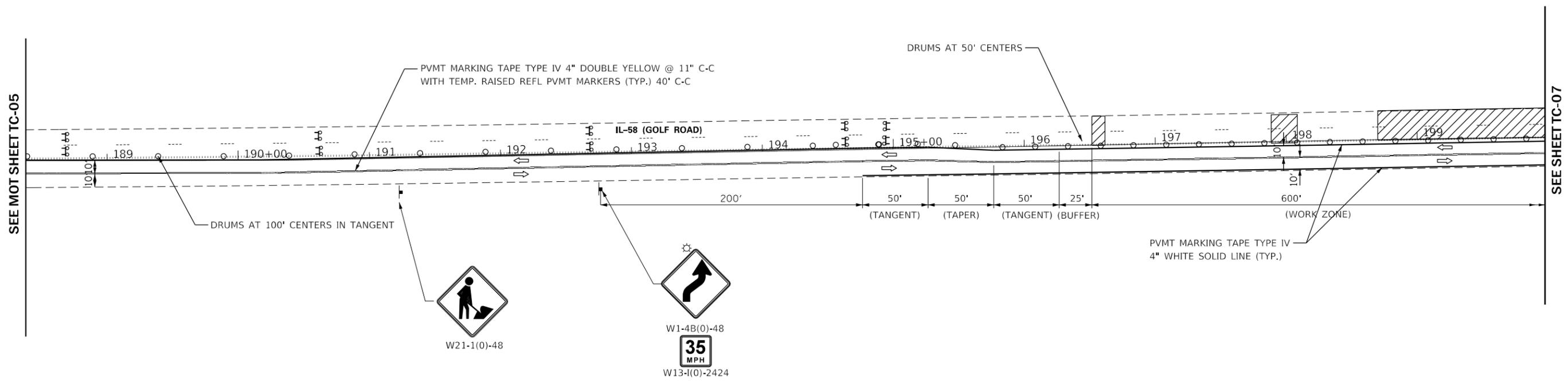
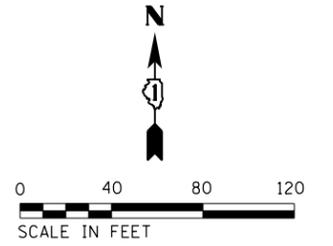
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 1**

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	

TC-05



- SYMBOLS**
- ARROW BOARD
  - WORK AREA
  - SIGN
  - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
  - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
  - DRUM

- NOTE:**
- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
  - 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

MODEL: D:\a\m\111 S. Wacker Drive, Suite 3910, Chicago, IL 60606  
 FILE NAME: \33\33\DOT\60618002\_05\_PTB\105\_002\_60669\_GolRd\01\CADD\Sheet\17\_D\60669\_MOT\_Stage\_1\_Sheet\_4.dgn



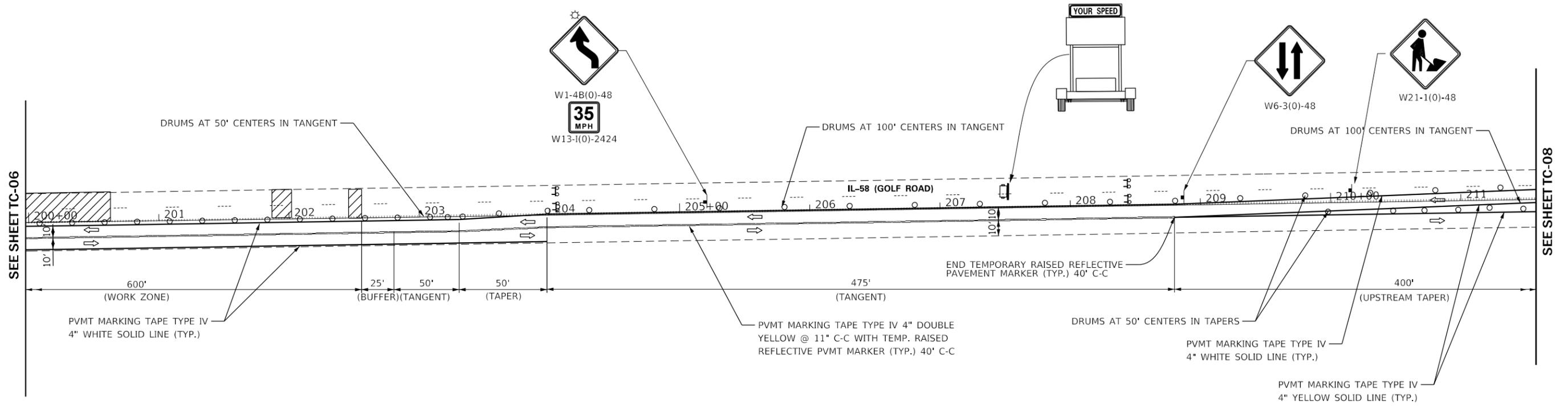
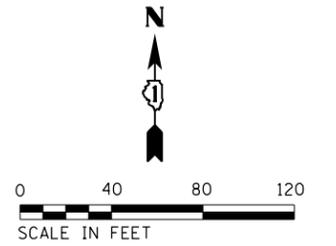
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK**  
**N. BRANCH CHICAGO RIVER**  
**SUGGESTED TRAFFIC CONTROL PLAN STAGE 1**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	17
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

TC-06



SEE SHEET TC-06

SEE SHEET TC-08

**NOTE:**

- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
- 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- DRUM

MODEL: Default  
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**AES** ENGINEERS & SURVEYORS  
 111 S. Wacker Drive,  
 Suite 3910  
 Chicago, IL 60606  
 Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISIONS -	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

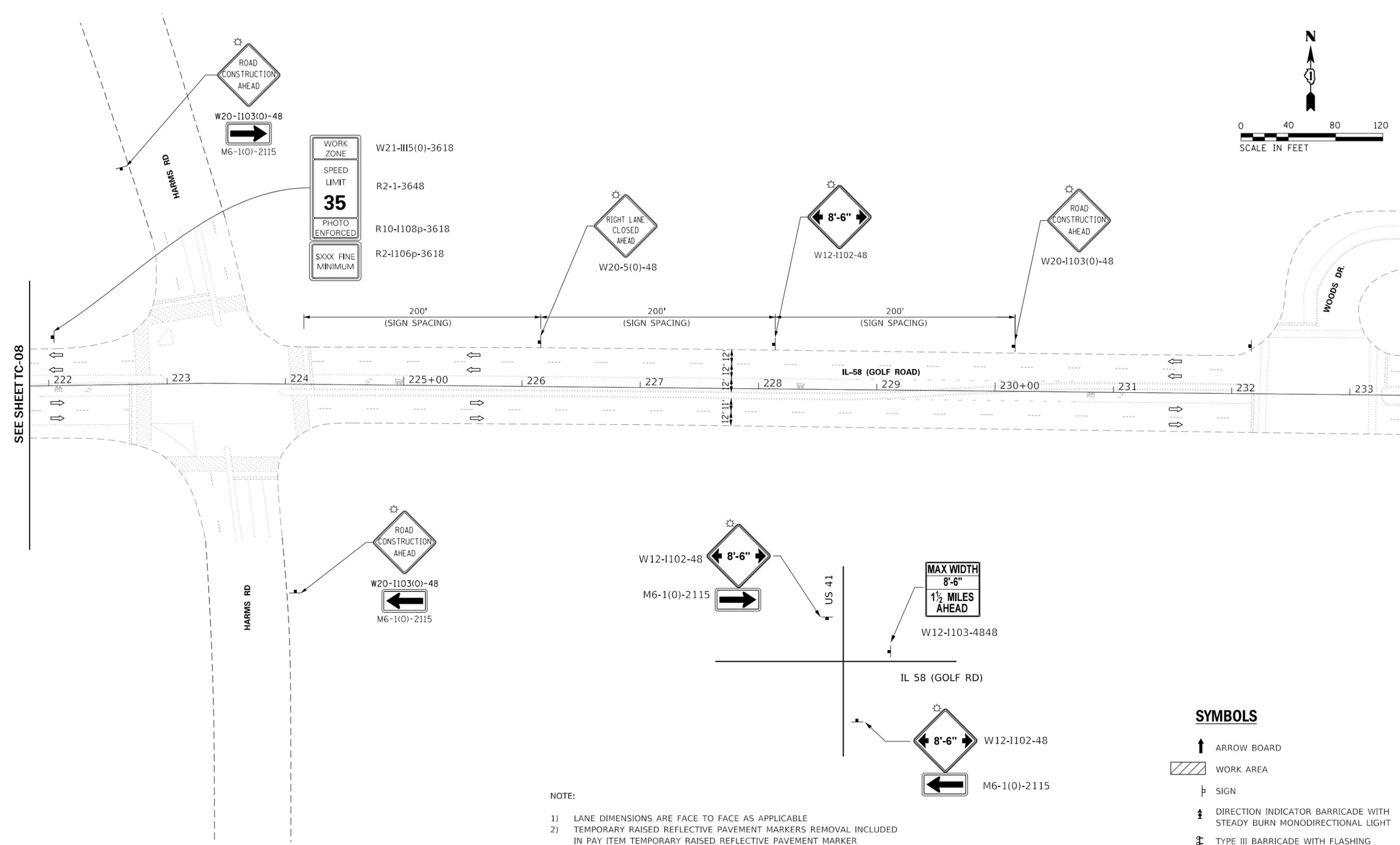
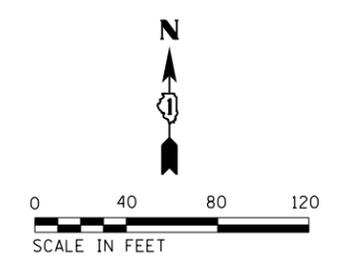
**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
 N. BRANCH CHICAGO RIVER  
 SUGGESTED TRAFFIC CONTROL PLAN STAGE 1**

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	

TC-07





SEE SHEET TC-08

- NOTE:
- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
  - 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

- SYMBOLS**
- ARROW BOARD
  - WORK AREA
  - SIGN
  - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
  - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
  - DRUM

MODEL: Defaul  
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ENGINEERS & SURVEYORS

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Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISED -	
PLOT SCALE = 80.0036' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/13/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 1**

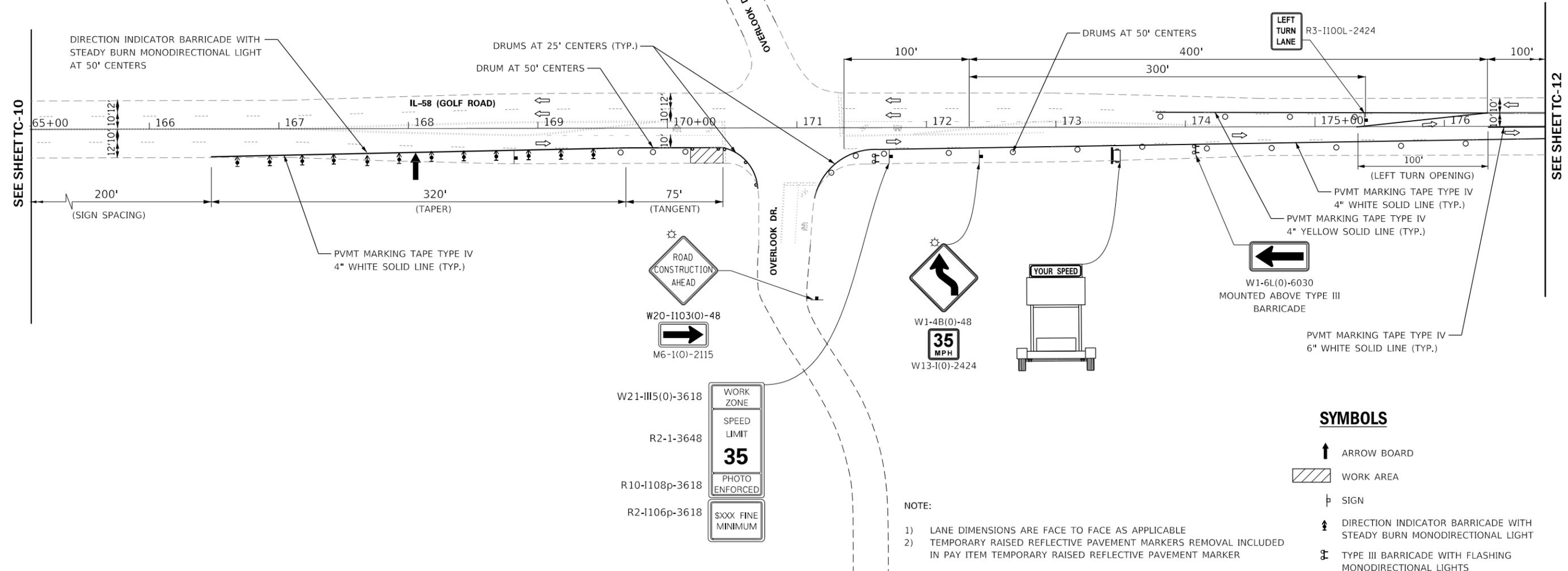
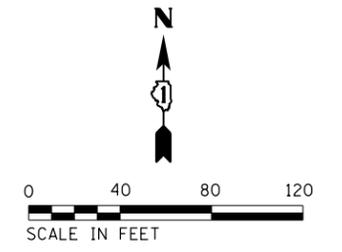
SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	20
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 60R69

TC-09





- NOTE:
- LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
  - TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- DRUM

MODEL: S:\MODELS\AEMES FILE: 1312.DWG: 2/1/15



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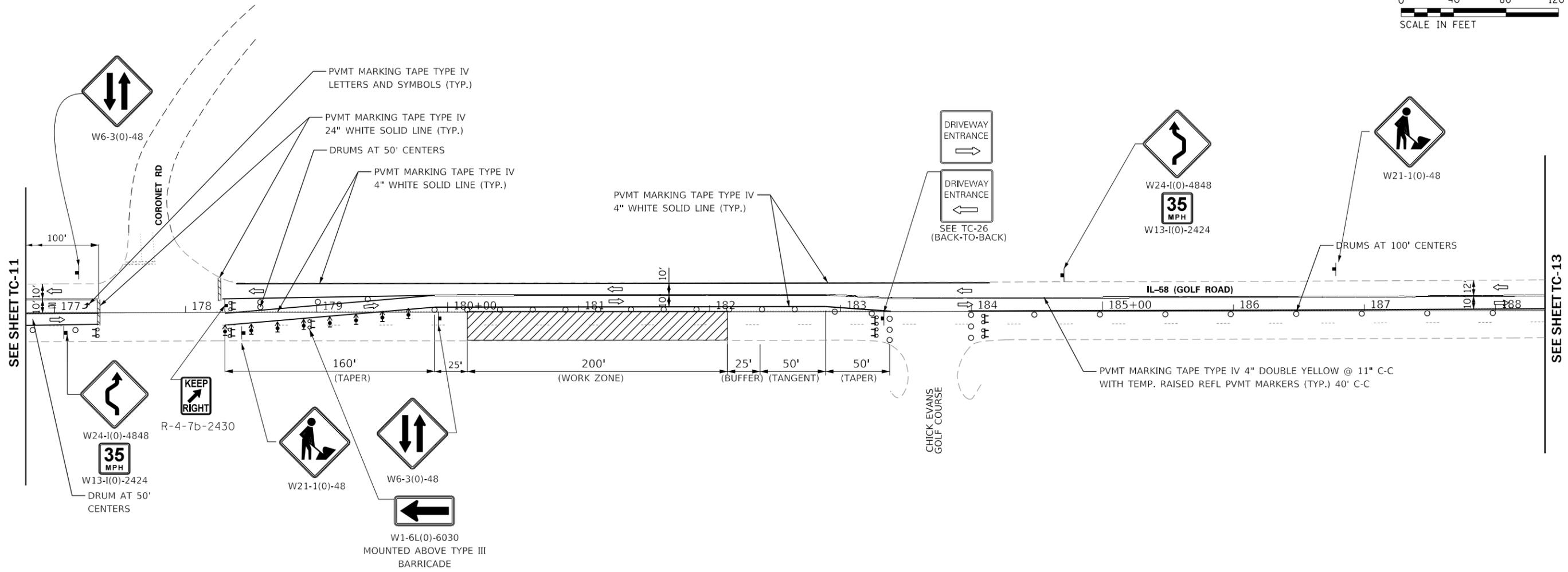
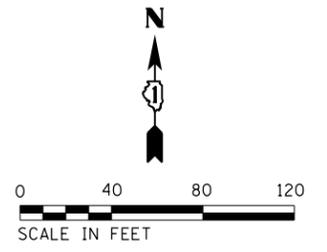
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2**

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	22
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	

TC-11



**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- DRUM

**NOTE:**

- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
- 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

MODEL: 14082614MAMES  
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USER NAME = \$USERS	DESIGNED - TOM	REVISED -
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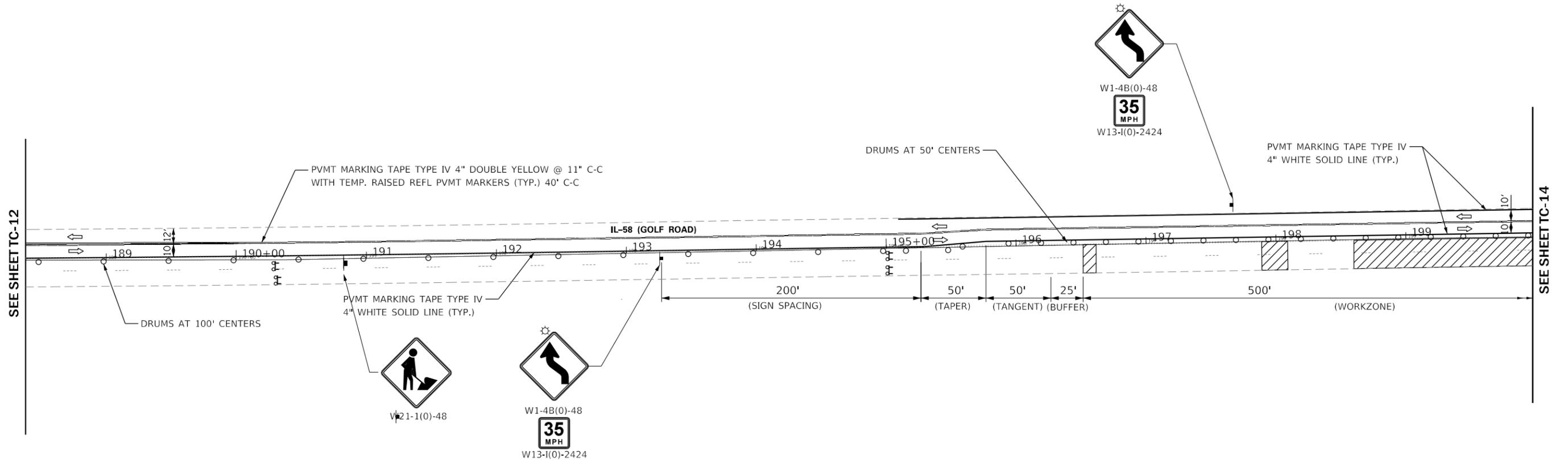
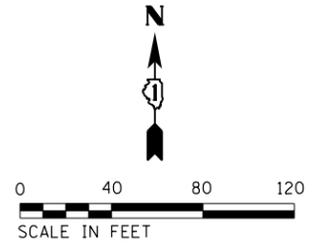
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2**

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	23
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	

TC-12



**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- DRUM

**NOTE:**

- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
- 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

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111 S. Wacker Drive,  
 Suite 3910  
 Chicago, IL 60606  
 Ph: 312-235-6783

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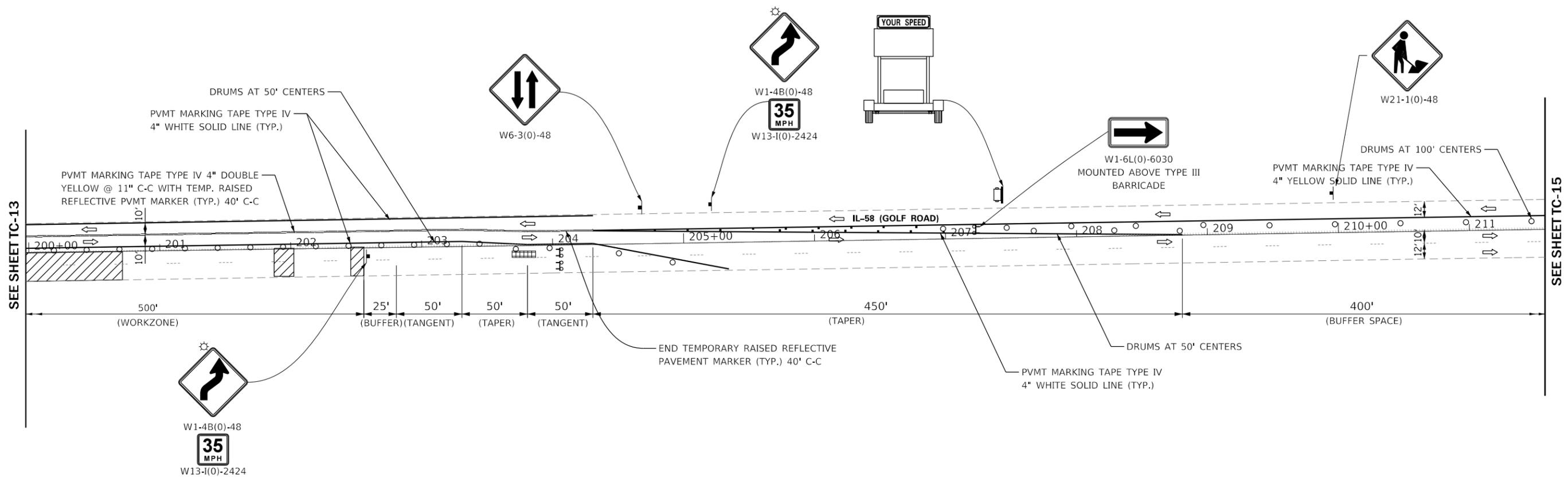
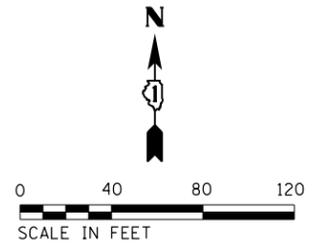
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
 N. BRANCH CHICAGO RIVER  
 SUGGESTED TRAFFIC CONTROL PLAN STAGE 2**

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	

TC-13



SEE SHEET TC-13

SEE SHEET TC-15

**SYMBOLS**

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- DRUM

- NOTE:
- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
  - 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

MODEL: 14082614MMES  
FILE: 14082614.PLT

**AES** ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

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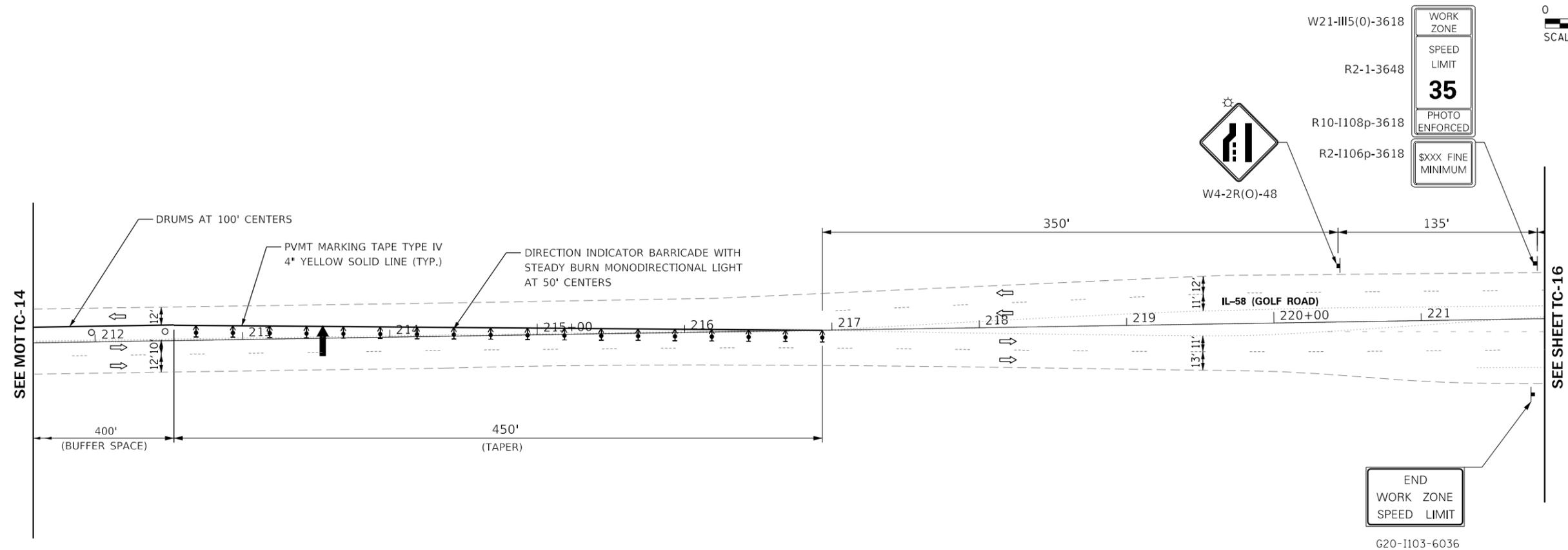
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	25
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

TC-14



**SYMBOLS**

-  ARROW BOARD
-  WORK AREA
-  SIGN
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
-  DRUM

**NOTE:**

- 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE
- 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

MODEL D:\aef\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783



USER NAME = mokrent	DESIGNED - TOM	REVISED -
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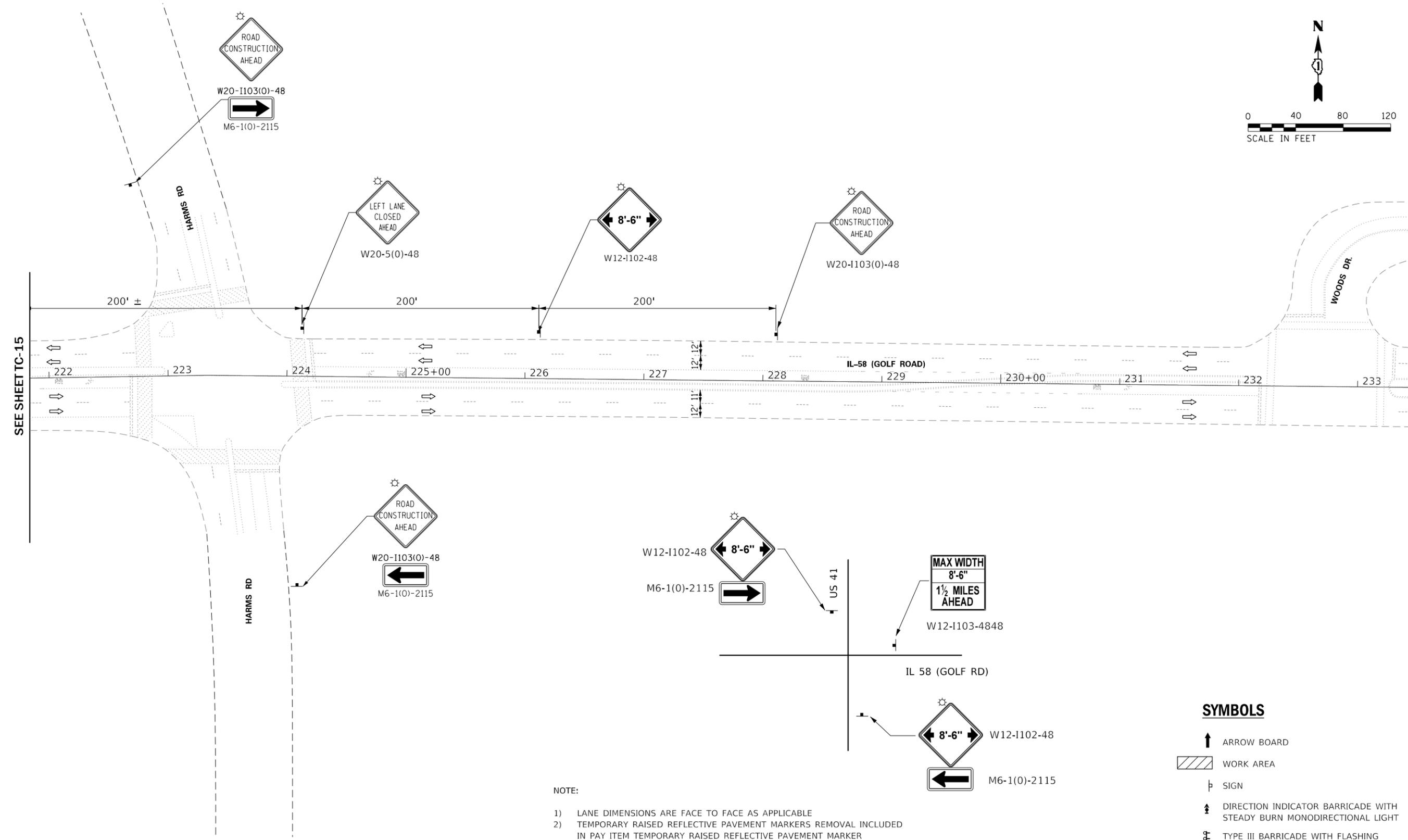
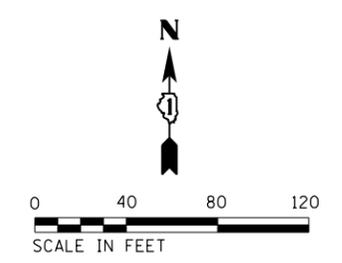
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
SUGGESTED TRAFFIC CONTROL PLAN STAGE 2**

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	

TC-15



NOTE:  
 1) LANE DIMENSIONS ARE FACE TO FACE AS APPLICABLE  
 2) TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL INCLUDED IN PAY ITEM TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

- SYMBOLS**
- ARROW BOARD
  - WORK AREA
  - SIGN
  - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
  - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
  - DRUM

MODEL: Default  
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 Chicago, IL 60606  
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USER NAME = mokrent	DESIGNED - TOM	REVISED -
	DRAWN - TOM	REVISED -
PLOT SCALE = 80.0036 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 12/11/2018	DATE - 08/13/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
 N. BRANCH CHICAGO RIVER  
 SUGGESTED TRAFFIC CONTROL PLAN STAGE 2**

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

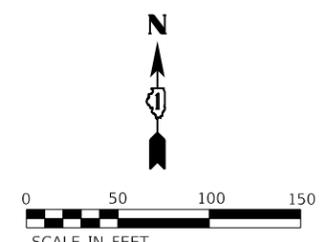
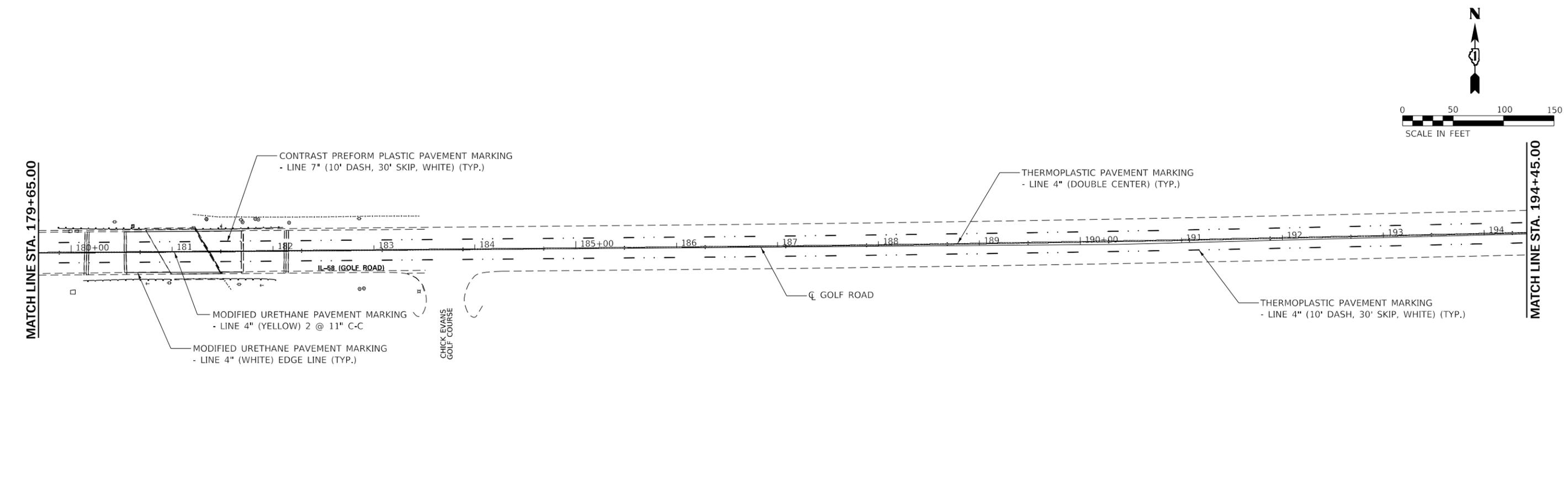
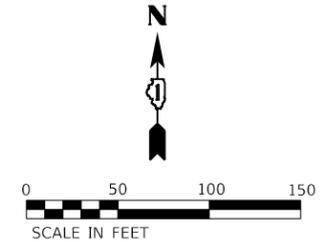
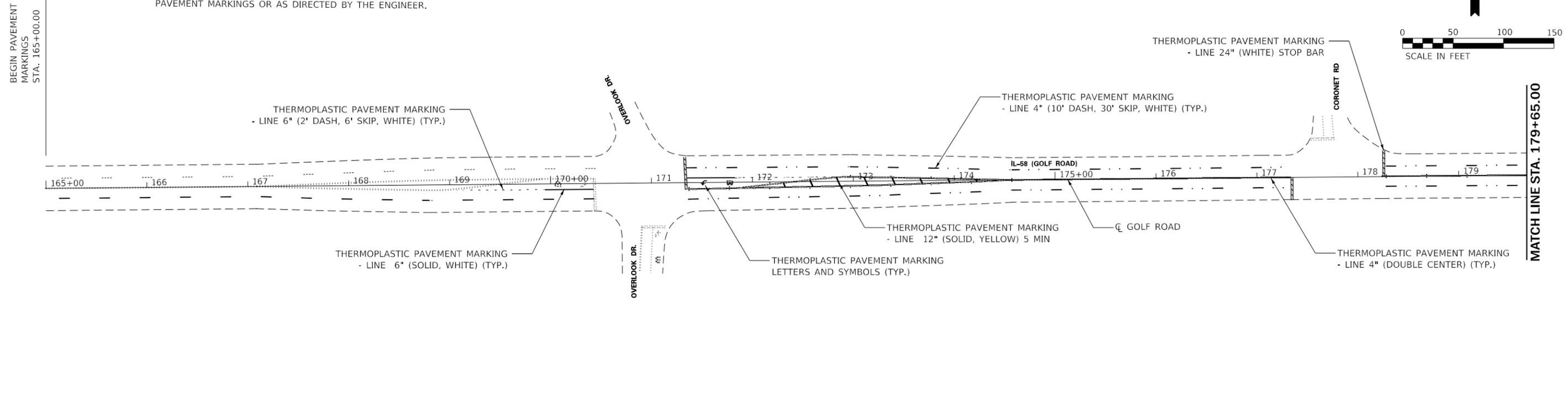
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1312	584-B-BR(11)	COOK	75	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	

TC-16



NOTES:

1. TYPICAL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13
2. THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.



MODEL: D:\m\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783  
FILE NAME: C:\02\DOT\60618002\_05\_PTB\105\_002\_60669\_GolR\01\CD\Sheet39\_D160R69-sht-Pavement Marking\_Sheet1.dgn

**AES** ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

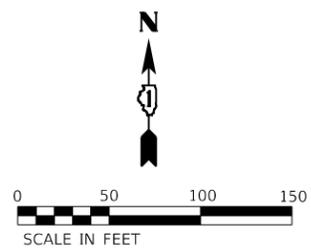
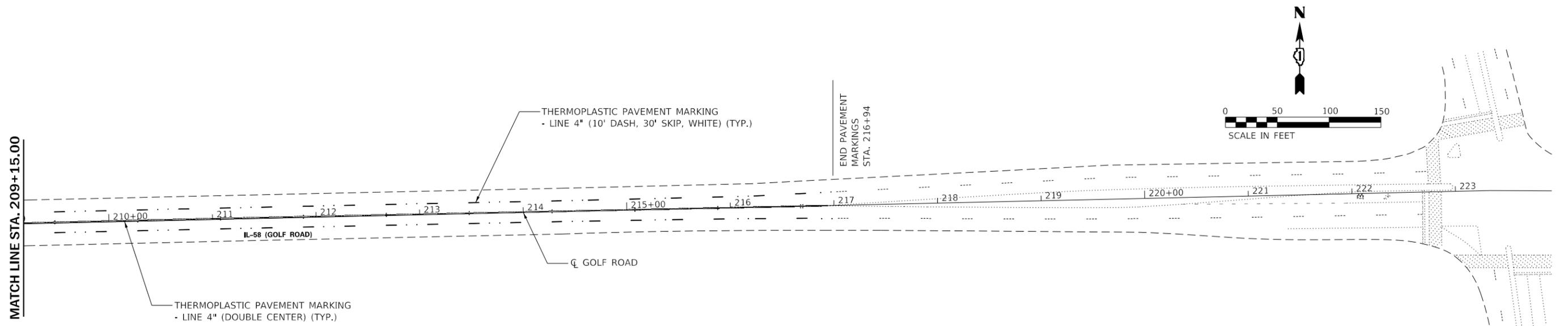
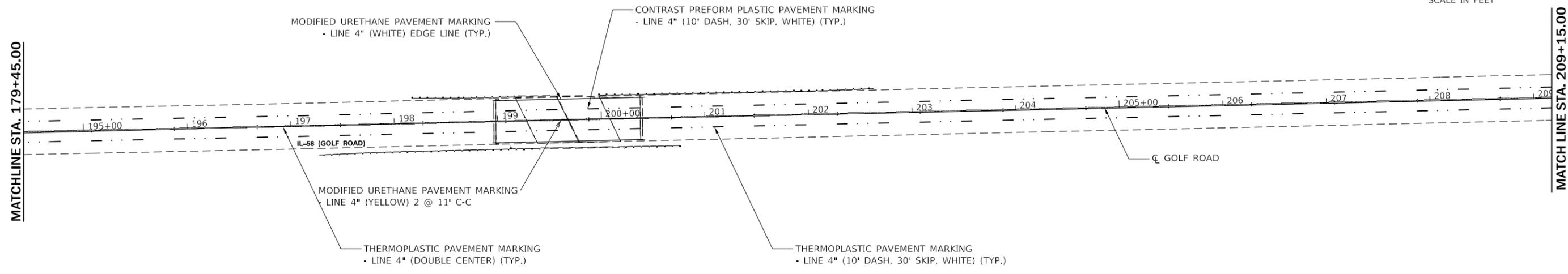
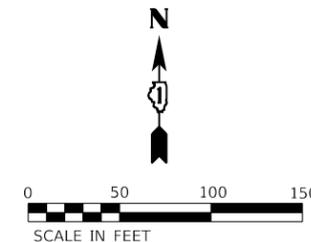
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	DATE - 08/13/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
PAVEMENT MARKING SHEET 1 OF 2**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	29
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



- NOTES:
1. TYPICAL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13
  2. THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.

MODEL: Default  
 FILE NAME: \\s01\DOT\60618002\_05\_PTB\105\_002\_60669\_GolfRd\11CADD\Sheet30\_D\60R69-ent-Pavement Marking\_Sheet2.dgn



USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - TOM	REVISIONS -	
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PLOT DATE = 12/11/2018	DATE - 08/13/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
PAVEMENT MARKING SHEET 2 OF 2**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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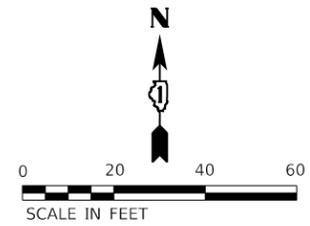
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	30
CONTRACT NO. 60R69				
ILLINOIS		FED. AID PROJECT		

**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF THE DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

**RESTORATION OF WORK AREA:**

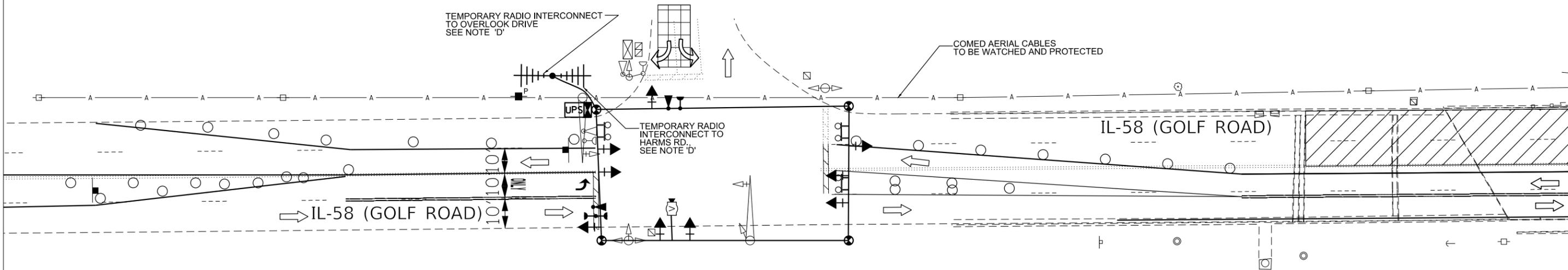
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 250, 251 AND 252 RESPECTIVELY.



**TEMPORARY TRAFFIC SIGNAL LEGEND**

ITEM	TEMPORARY	EXISTING
CONTROLLER CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL POST		
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
VIDEO DETECTOR SYSTEM		
WORK ZONE		
VIDEO DETECTION ZONE		
TRAFFIC FLOW		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM		

CORONET RD



**CONSTRUCTION NOTES:**

- EXISTING SIGNAL HEADS SHALL BE BAGGED FOR STAGE 1 & 2 CONSTRUCTION
- CONTRACTOR SHALL RESTORE THE EXISTING SIGNAL SYSTEM AFTER COMPLETION OF THE STAGED CONSTRUCTION
- PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM EXISTING COMED SERVICE. CONTRACTOR SHALL COORDINATE WITH COMED.
- SINGLE OR DUAL ANTENNAS MAY BE REQUIRED BASED ON LINE OF SIGHT TO MASTER CONTROLLER.

**STAGE 1**

MODEL: 1400BELMAMES  
FILE: 1400BELMAMES.DWG



USER NAME = \$USERS	DESIGNED - TOM	REVISED -
PLOT SCALE = \$SCALES	DRAWN - TOM	REVISED -
PLOT DATE = \$DATES	CHECKED - MO	REVISED -
	DATE - 08/13/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
TEMPORARY TRAFFIC SIGNAL - STAGE 1**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	

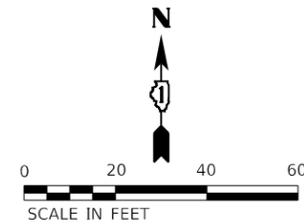
TS-1

**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

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10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

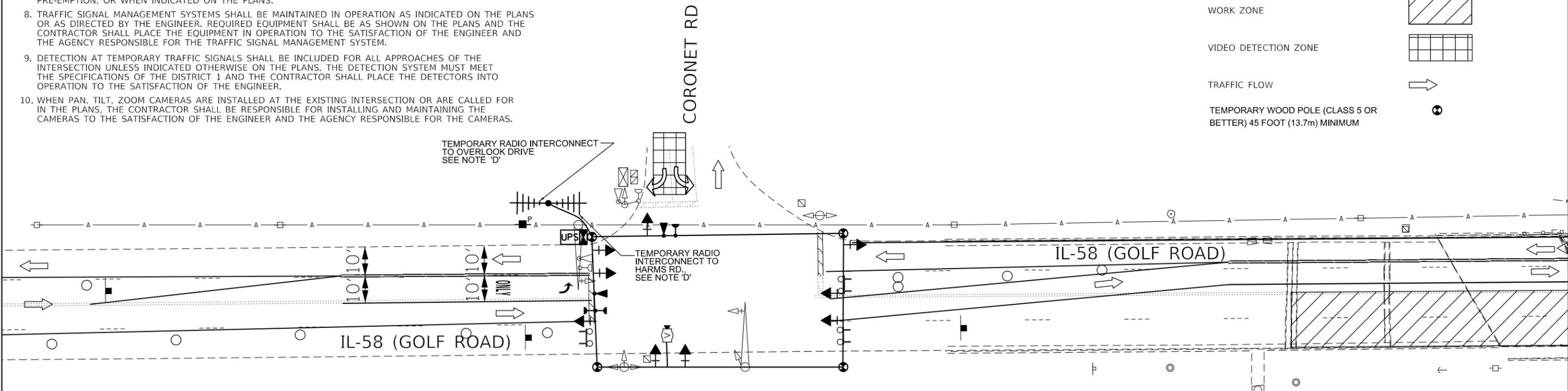
**RESTORATION OF WORK AREA:**

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 250, 251 AND 252 RESPECTIVELY.



**TEMPORARY TRAFFIC SIGNAL LEGEND**

ITEM	TEMPORARY	EXISTING
CONTROLLER CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL POST		
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
VIDEO DETECTOR SYSTEM		
WORK ZONE		
VIDEO DETECTION ZONE		
TRAFFIC FLOW		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM		



**STAGE 2**

**CONSTRUCTION NOTES:**

- EXISTING SIGNAL HEADS SHALL BE BAGGED FOR STAGE 1 & 2 CONSTRUCTION
- CONTRACTOR SHALL RESTORE THE EXISTING SIGNAL SYSTEM AFTER COMPLETION OF THE STAGED CONSTRUCTION
- PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM EXISTING COMED SERVICE. CONTRACTOR SHALL COORDINATE WITH COMED.
- SINGLE OR DUAL ANTENNAS MAY BE REQUIRED BASED ON LINE OF SIGHT TO MASTER CONTROLLER.

**AES**  
ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME = \$USERS	DESIGNED - TOM	REVISED -
PLOT SCALE = \$SCALES	DRAWN - TOM	REVISED -
PLOT DATE = \$DATES	CHECKED - MO	REVISED -
	DATE - 08/13/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

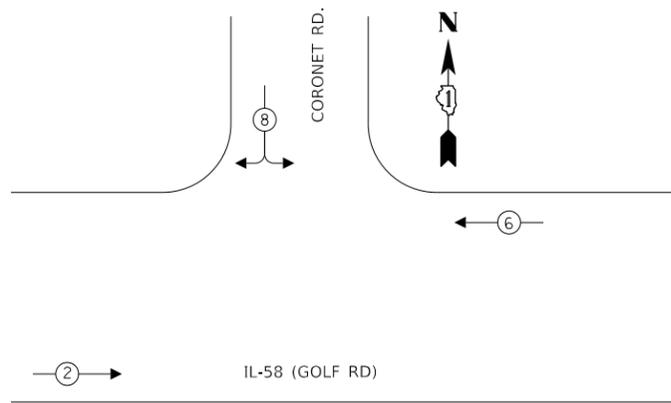
**GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	

ITEM	UNIT	QTY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TEMPORARY CONTROLLER SEQUENCE

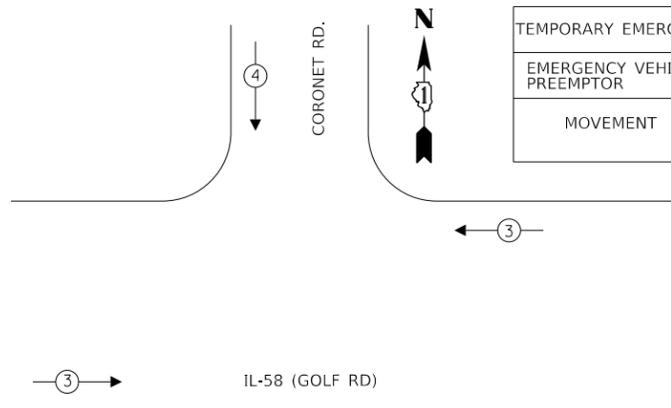


LEGEND

- ← \* → DUAL ENTRY PHASE
- ← \* → SINGLE ENTRY PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM  
N.T.S.

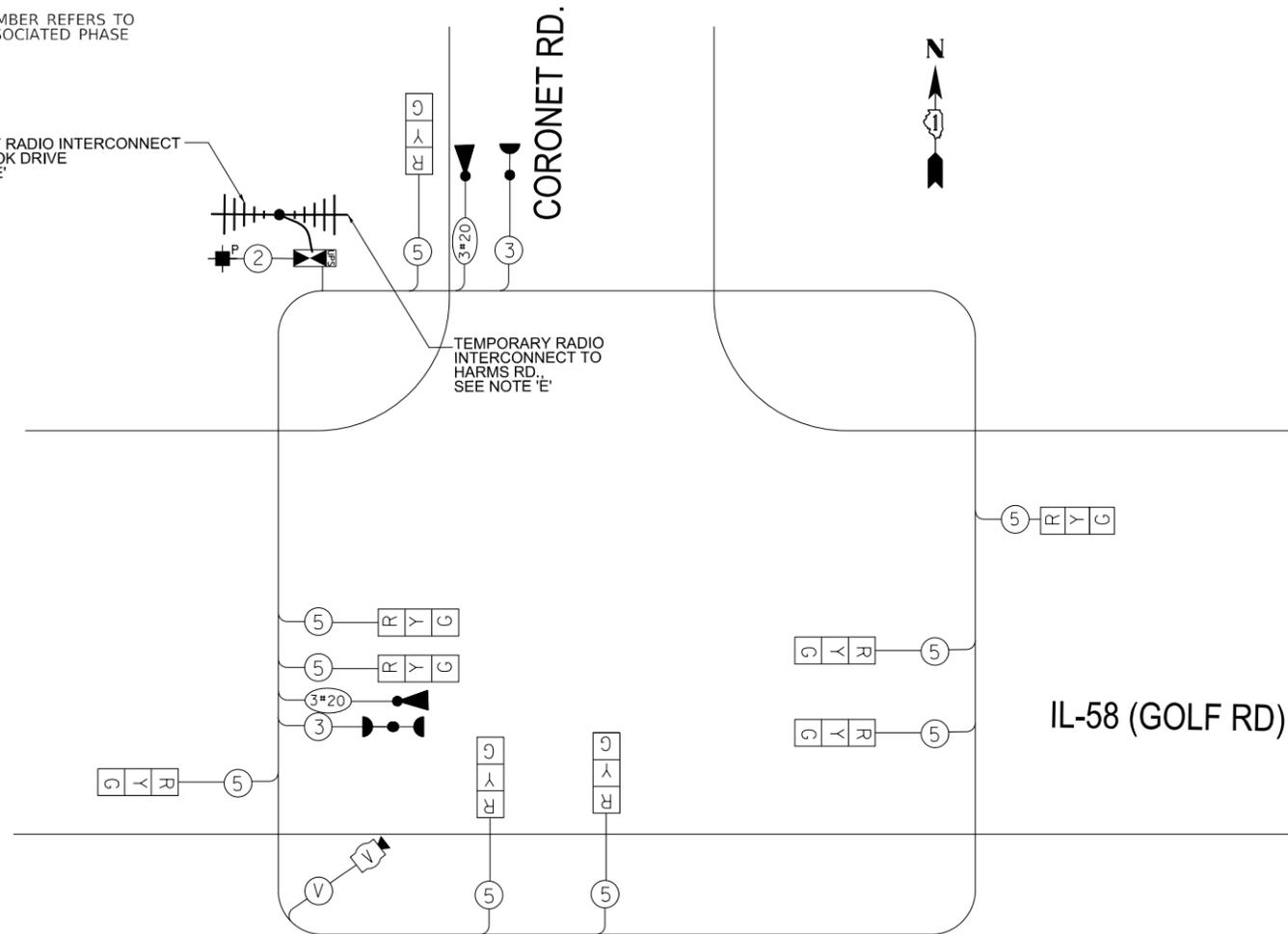
EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

TEMPORARY RADIO INTERCONNECT TO OVERLOOK DRIVE SEE NOTE 'E'

TEMPORARY RADIO INTERCONNECT TO HARMS RD. SEE NOTE 'E'



TEMPORARY CABLE PLAN  
STAGE 1 & 2

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9		17	0.50	76.50
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	-		12	0.10	-
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100.00	1.00	100.00
ILLUM. SIGN	-		-	-	-
VIDEO SYSTEM	1	150.00	-	1.00	150.00
FLASHER					
ENERGY COSTS TO:				TOTAL =	416.50

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096  
ENERGY SUPPLY CONTACT: STEVE FITZGERALD  
PHONE: (708) 235-2327  
COMPANY: ComEd

RESTORATION OF WORK AREA:

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC.. AND NO EXTRA COMPENSATION SHALL BE ALLOWED .ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CONSTRUCTION NOTES:

- A. EXISTING SIGNAL HEADS SHALL BE BAGGED FOR STAGE 1 & 2 CONSTRUCTION
- B. CONTRACTOR SHALL RELOCATE THE TEMPORARY SIGNAL HEADS TO MATCH STAGE 2 TRAFFIC CONTROL AFTER COMPLETION OF STAGE 1
- C. CONTRACTOR SHALL RESTORE THE EXISTING SIGNAL SYSTEM AFTER COMPLETION OF THE STAGED CONSTRUCTION
- D. PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM EXISTING COMED SERVICE.CONTRACTOR SHALL COORDINATE WITH COMED.
- E. SINGLE OR DUAL ANTENNAS MAY BE REQUIRED BASED ON LINE OF SIGHT TO MASTER CONTROLLER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GOLF ROAD BRIDGE REPAIRS OVER EAST & WEST FORK  
N. BRANCH CHICAGO RIVER  
TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM & EVP SEQUENCE

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	33
CONTRACT NO. 60R69				

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**AES**  
ENGINEERS & SURVEYORS  
111 S. Wacker Drive,  
Suite 3910  
Chicago, IL 60606  
Ph: 312-235-6783

USER NAME	DESIGNED	REVISION
= mokrent	- TOM	-
	- TOM	-
	- MO	-
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PLOT SCALE = 40,000' / in.  
PLOT DATE = 12/11/2018  
DATE = 08/13/2018

SCALE: SHEET OF SHEETS STA. TO STA.

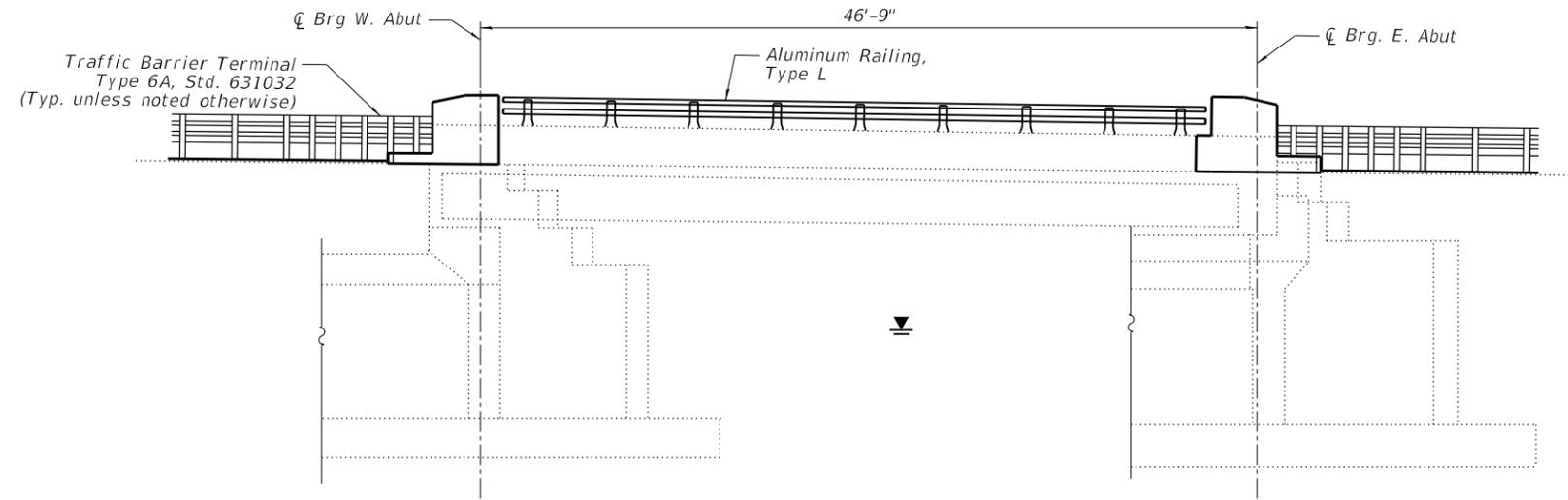




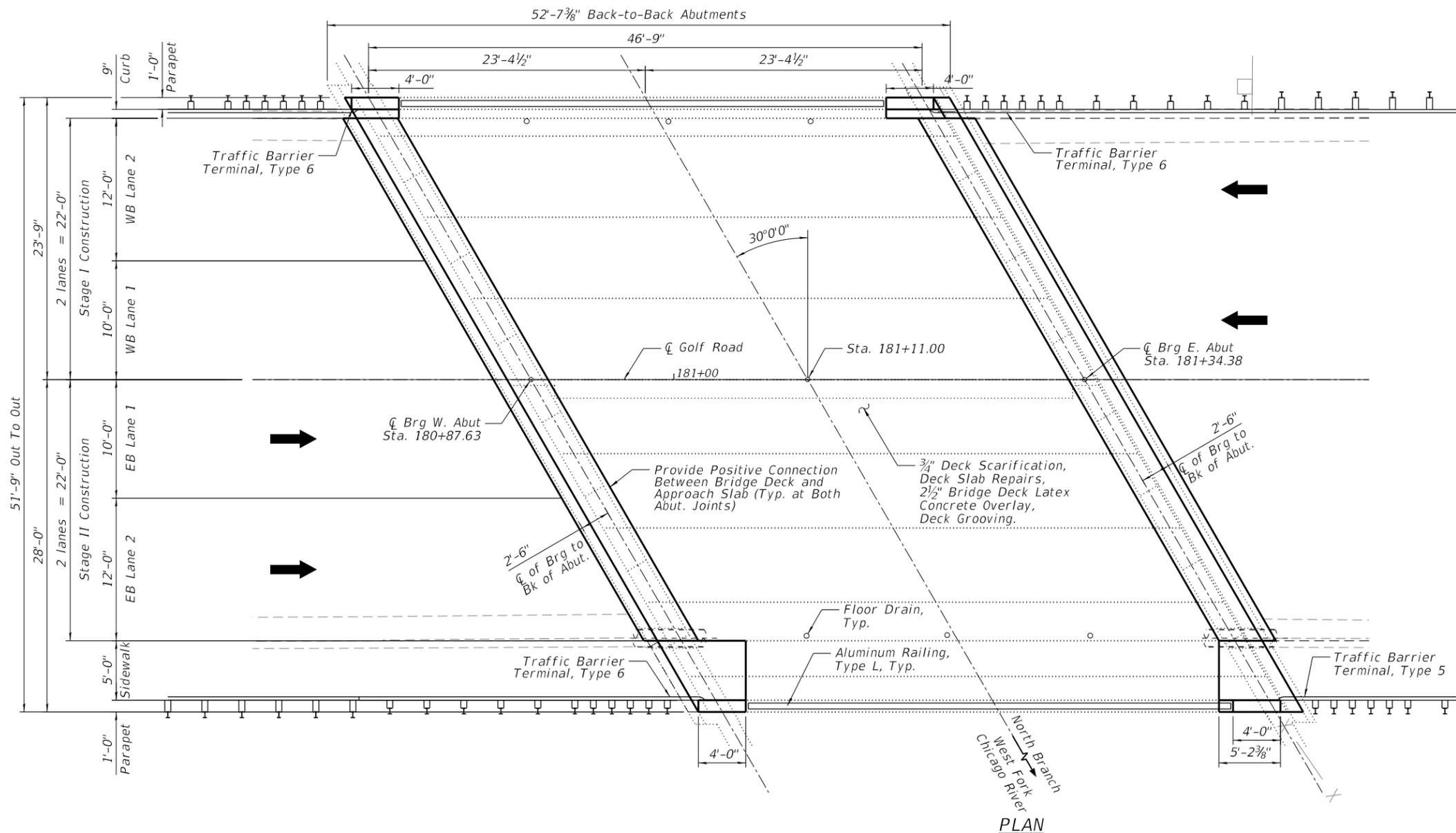
Existing Structure: S.N. 016-0355, originally built in 1928 and reconstructed in 1983 as FAU Route 557, Section 1977-119-W & RS. The existing structure consists of single span steel beams with concrete deck spanning 46'-9" Back to Back of abutments and 51'-9" Out to Out of deck. The existing substructure consists of reinforced concrete abutments.

Traffic to be maintained utilizing stage construction.

No Salvage.



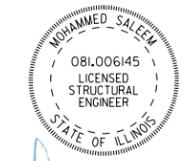
**ELEVATION**



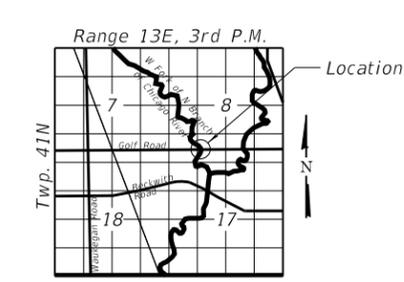
**PLAN**

**SCOPE OF WORK**

1. Scarify 3/4" from the bridge deck slab.
2. Perform full and partial depth repairs to deck slab and approach pavement.
3. Clean all deck drains.
4. Remove transverse joint and convert to fixed joints to form integral abutments.
5. Remove existing joint and replace with strip seal.
6. Apply 2 1/2" bridge deck latex concrete overlay.
7. Apply bridge deck grooving for the bridge deck.
8. Modify portions of parapet wall for guardrail terminal connections.
9. Perform structural concrete repairs for the abutments.
10. Apply protective coat on the reconstructed transverse joint areas.
11. Place 1 3/4" HMA overlay over Approach Slab. (See Roadway Plans)



DATE: 12/07/2018  
 IL. LICENSED PROFESSIONAL  
 LICENSE EXPIRES ON 11/30/2020



**LOCATION SKETCH**

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USER NAME =	DESIGNED - AWM	REVISED -
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PLOT DATE =	DRAWN - AWM	REVISED -
	DATE - 11/02/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 016-0355**

SHEET S1-01 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	34
CONTRACT NO. 60R69				
		ILLINOIS	FED. AID PROJECT	

**GENERAL NOTES:**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Prior to pouring the new concrete deck for expansion joints reconstruction and deck slab repairs, 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 concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by method that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
3. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the 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.
4. 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 based at the unit price bid for the work.
5. The Existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with presence of lead on this project.
6. The Contractor shall take appropriate precautions when working around the existing 18" dia. gas main.
7. Synthetic Fibers shall be added to the bridge deck concrete overlay, see Special Provisions.

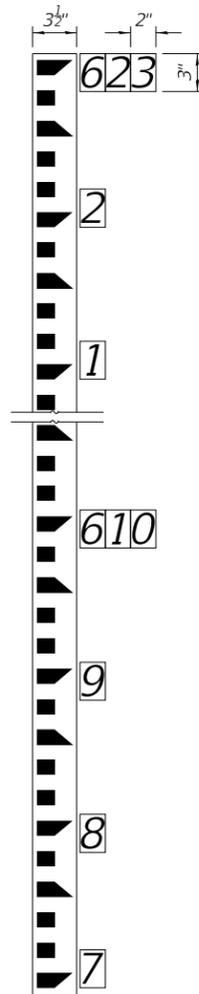
**INDEX OF SHEETS**

- S1-01 General Plan and Elevation
- S1-02 General Notes, Index of Sheets & Total Bill of Materials
- S1-03 Stage Construction Details-I
- S1-04 Stage Construction Details-II
- S1-05 Temporary Concrete Barrier for Stage Construction
- S1-06 Bridge Deck Repairs
- S1-07 East & West Abutment Joint Removal Plan
- S1-08 East & West Abutment Joint Replacement Plan
- S1-09 Diaphragm Elevation
- S1-10 Diaphragm Details
- S1-11 Parapet and Guardrail Details
- S1-12 East and West Abutment Repairs
- S1-13 Aluminum Railing, Type L
- S1-14 Bar Splicer Assembly and Mechanical Splicer Details

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL QUANTITY
Concrete Removal	CU YD	23
Concrete Superstructure	CU YD	40
Bridge Deck Grooving	SQ YD	254
Protective Coat	SQ YD	57
Reinforcement Bars, Epoxy Coated	POUND	6040
Bar Splicers	EACH	34
Mechanical Splicers	EACH	96
Aluminum Railing, Type L	FOOT	83
Approach Slab Repair (Partial Depth)	SQ YD	20
Bridge Deck Latex Concrete Overlay, 2½ inches	SQ YD	238
Bridge Deck Scarification ¾"	SQ YD	238
Structural Repair of Concrete (Depth Equal To Or Less Than 5 inches)	SQ FT	200
Debris Removal*	CU YD	50
Deck Slab Repair (Full Depth, Type II)	SQ YD	10
Fence Removal	FOOT	50
Clean and Reseal Relief Joint	FOOT	88
Stream Gauge	EACH	1

\* For clearing debris from the channel as directed by the Engineer.



**Stream Gauge Notes:**

1. The gauge plates shall be porcelain enameled iron plate graduated in feet and tenths, unnumbered, and 3½" wide. Gauge plates shall be Watermark Style "E" or approved equivalent.
2. Each individual number plate shall be a black numeral on 2" x 3" white porcelain enameled iron plate. Number plates shall be "Watermark" Style "E" or approved equivalent.
3. Both the gauge plates and number plates shall be fastened directly to the abutment with a ¼" diameter, 1½" long masonry screw with hex washer head.
4. Three digit elevations to be installed at the top of the gauge and at every elevation ending with 0. At all of the other whole elevations, place the last digit as shown in the example to the right.

**STREAM GAUGE DETAIL**

**ABBREVIATIONS**

ABUT.	ABUTMENT	JT.	JOINT
B.F.	BACK FACE	N. ABUT.	NORTH ABUTMENT
BK.	BACK	N.B.	NORTH BOUND
BN	BRIDGE NUMBER	P.G.L.	PROFILE GRADE LINE
BRG.	BEARING	PPC	PRECAST PRESTRESSED CONCRETE
CL	CENTERLINE	PROP.	PROPOSED
CL.	CLEARANCE	RT.	RIGHT
CONC.	CONCRETE	S. ABUT.	SOUTH ABUTMENT
E.F.	EACH FACE	S.B.	SOUTH BOUND
ELEV.	ELEVATION	SPA.	SPACING
EX.	EXISTING	STA.	STATION
E	EXPANSION	SHLDR.	SHOULDER
F	FIXED	TYP.	TYPICAL
F.F.	FRONT FACE		

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**AES** ENGINEERS & SURVEYORS  
 111 S. Wacker Drive, Suite 3910  
 Chicago, IL 60606  
 Ph: 312-235-6783

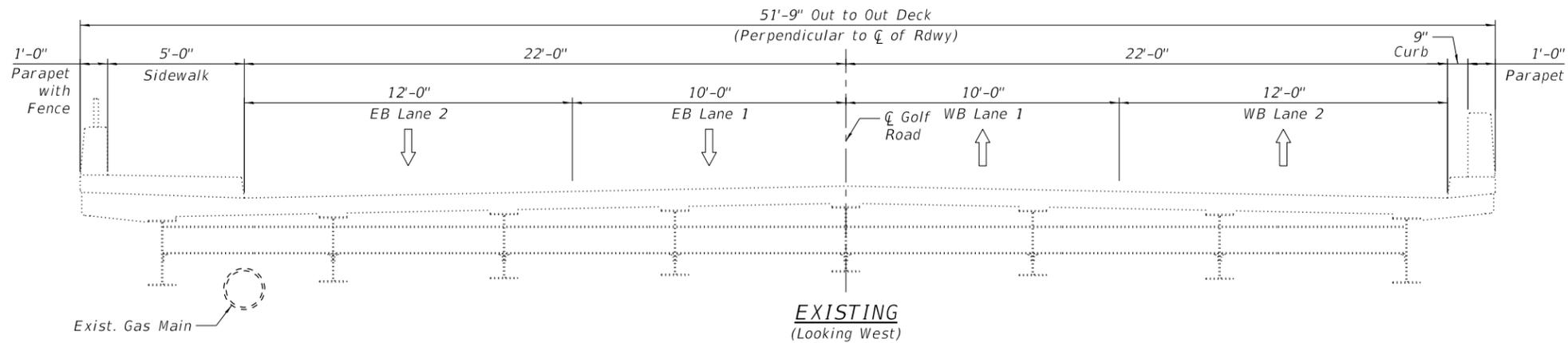
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CHECKED - MO, MS	REVISIONS -	
PLOT SCALE =	DRAWN - AWM	REVISED -
PLOT DATE =	DATE - 11/02/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

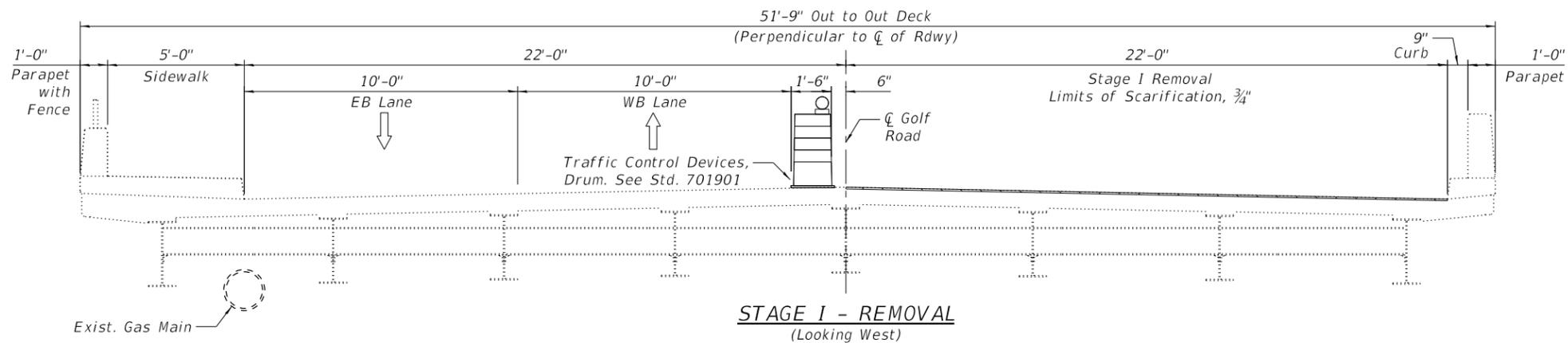
**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIALS  
 STRUCTURE NO. 016-0355**

SHEET S1-02 OF S1-13 SHEETS

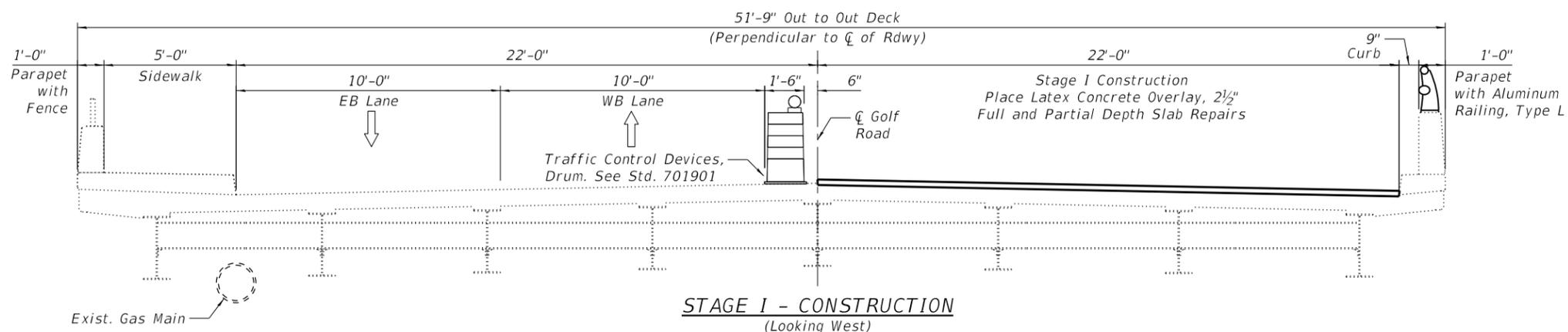
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1312	584-B-BR(11)	COOK	75	35
CONTRACT NO. 60R69				
		ILLINOIS	FED. AID PROJECT	



**EXISTING**  
(Looking West)



**STAGE I - REMOVAL**  
(Looking West)



**STAGE I - CONSTRUCTION**  
(Looking West)

**STAGE I REMOVAL**

1. Install Traffic Control Devices, (Drum) as shown to locate traffic on the south side of the existing structure.
2. Scarify  $\frac{3}{4}$ " from the top of deck slab.
3. Perform deck slab removal and approach slab removal (associated with deck/approach slab repairs) at the locations shown in the plans.
4. Remove portions of bridge deck adjacent to expansion joint at pier and portions of bridge deck/approach slab adjacent to abutment joints, as shown in the plans.

**STAGE I CONSTRUCTION**

1. Perform full- and partial-depth deck slab repairs, and approach slab repairs, at locations as shown on plans.
2. Install Traffic Barrier Terminal, Type 6.
3. Install mechanical splicers, place associated reinforcement, and re-cast deck/approach slabs at abutment joints.
4. Install performed joint strip seal at pier and replace associated reinforcement and concrete adjacent to the joint.
5. Perform structural repair of concrete for the abutments and pier.
6. Apply  $2\frac{1}{2}$ " bridge deck latex concrete overlay to bridge deck slab.
7. Perform bridge deck grooving for the  $2\frac{1}{2}$ " bridge deck latex concrete overlay and the reconstructed areas of abutments.
8. Apply  $1\frac{3}{4}$ " Hot-Mix Asphalt (HMA) Overlay to approach slabs.
9. Apply protective coat to the top of reconstructed transverse joint areas.
10. Repaint pavement markings on top of deck and approach slabs.

**LEGEND**

- Bridge Deck Scarification  $\frac{3}{4}$ "
- Latex Concrete Overlay  $2\frac{1}{2}$ "

**Note:**

1. Deck Slab repair are not shown for clarity of drawing. See Sheet S1-05 for Deck Slab Repairs.

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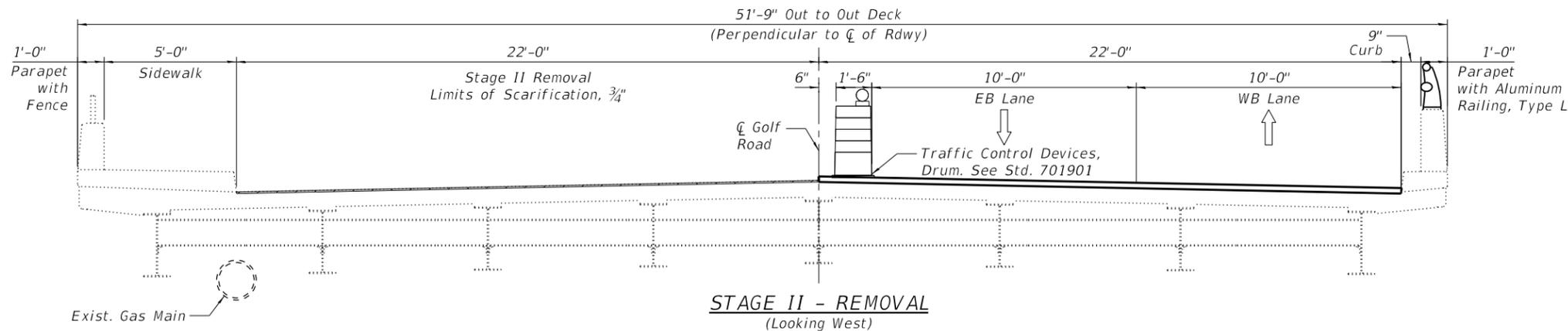
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**STAGE CONSTRUCTION DETAILS I  
STRUCTURE NO. 016-0355**

SHEET S1-03 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60R69				
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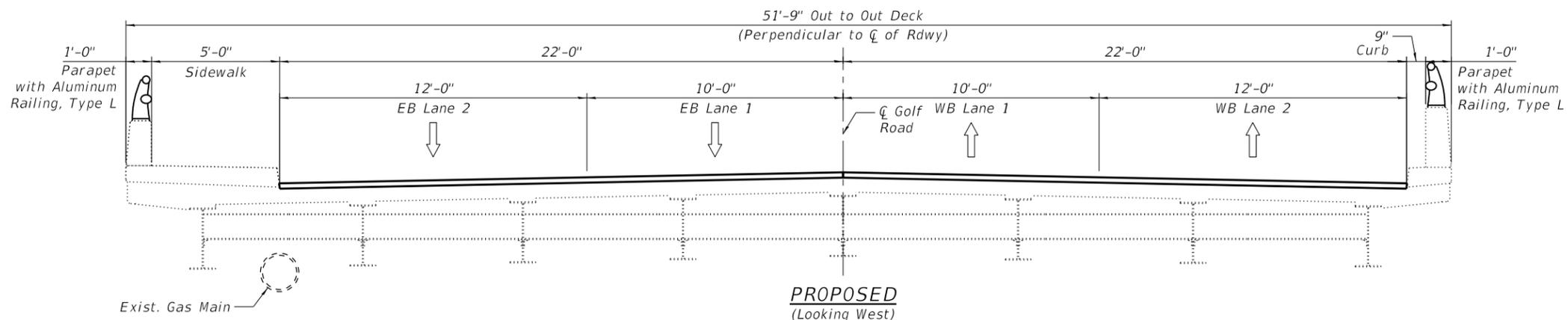
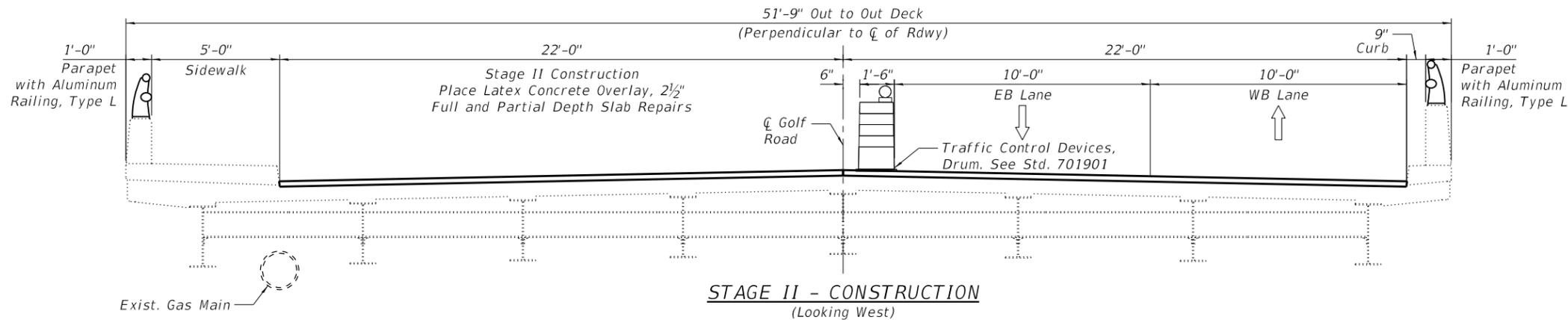


**STAGE II REMOVAL**

1. Install Traffic Control Devices (Drum) as shown to locate traffic on the north side of the existing structure.
2. Remove bridge fence as shown on the plans.
3. Scarify  $\frac{3}{4}$ " from the top of deck slab.
4. Perform deck slab removal and approach slab removal (associated with deck/approach slab repairs) at the locations shown in the plans.
5. Remove portions of bridge deck adjacent to abutment joints, as shown in the plans.

**STAGE II CONSTRUCTION**

1. Perform full- and partial-depth deck slab repairs, and approach slab repairs, at locations as shown on plans.
2. Install mechanical splicers, place associated reinforcement, and re-cast deck/approach slabs at abutment joints.
3. Modify parapets to accommodate Traffic Barrier Terminals.
4. Install Aluminum Railing, Type L.
5. Perform structural repair of concrete for the abutments.
6. Apply  $2\frac{1}{2}$ " bridge deck latex concrete overlay to bridge deck slab.
7. Perform bridge deck grooving for the  $2\frac{1}{2}$ " bridge deck latex concrete overlay and the reconstructed areas of abutments.
8. Apply  $1\frac{3}{4}$ " Hot-Mix Asphalt (HMA) Overlay to approach slabs.
9. Apply protective coat to the top an inside faces of modified and reconstructed parapets and to the top of reconstructed transverse joint areas.
10. Install Traffic Barrier Terminal, Type 6 and Type 5 as shown on plans.
11. Repaint pavement markings on top of deck and approach slabs.



**LEGEND**

- Bridge Deck Scarification  $\frac{3}{4}$ "
- Latex Concrete Overlay  $2\frac{1}{2}$ "

**Note:**

1. Deck Slab repair areas are not shown for clarity of drawing. See Sheet S1-05 for Deck Slab Repairs.

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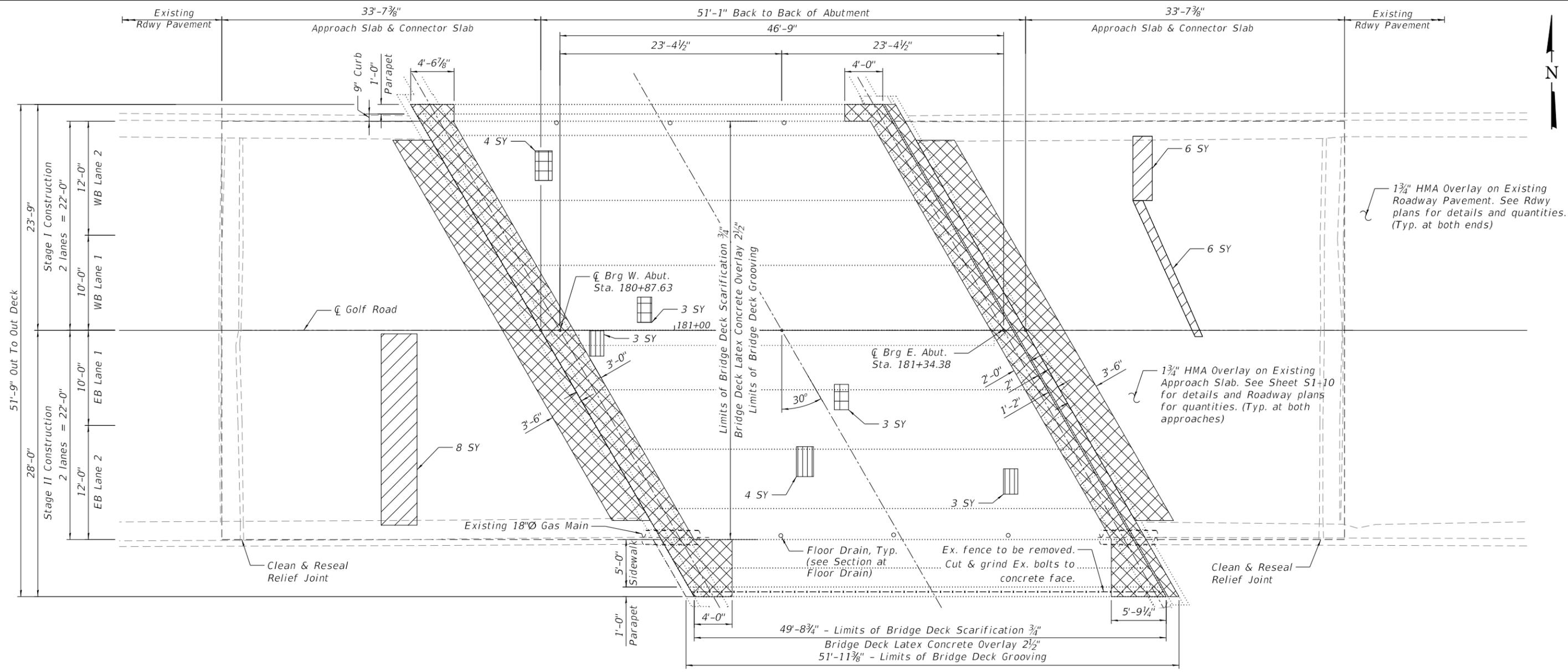
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**STAGE CONSTRUCTION DETAILS II  
STRUCTURE NO. 016-0355**

SHEET S1-04 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60R69				
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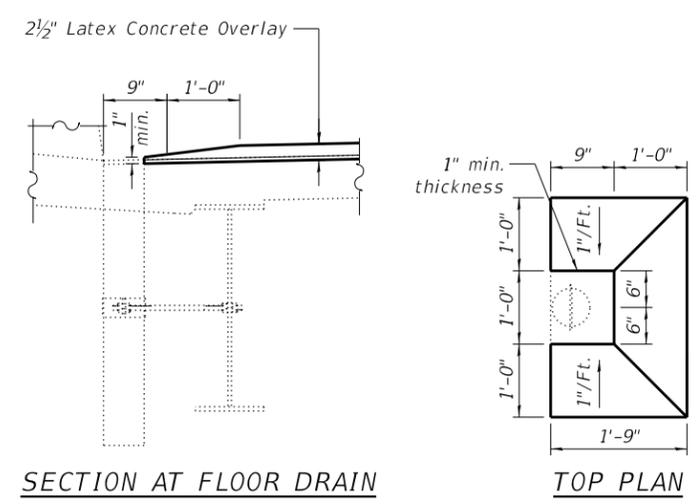
PLAN

**NOTES:**

1. Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs at the time of construction.
2. For bridge deck final cross-section, see Sheet S1-09 & S1-10.
3. For East and West abutments transverse joint removal and reconstruction, see Sheets S1-07 and S1-08.
4. For North and South parapet modification see Sheet S1-11.
5. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Superstructure.
6. Perform bridge deck grooving for the bridge deck latex concrete overlay and the roadway portion of the reconstructed transverse joints.
7. Protective coat shall be applied to top and inside face of parapets, sidewalks and the transverse joints reconstructed areas.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Bridge Deck Grooving	SQ YD	229
Approach Slab Repair (Partial Depth)	SQ YD	20
Bridge Deck Latex Concrete Overlay, 2 1/2 Inches	SQ YD	229
Bridge Deck Scarification 3/4"	SQ YD	229
Deck Slab Repair (Full Depth, Type II)	SQ YD	10
Clean & Reseal Relief Joint	FOOT	88



SECTION AT FLOOR DRAIN

TOP PLAN

**LEGEND:**

- Approach Slab Repair (Partial Depth)
- Deck Slab Repair (Full Depth, Type II)
- \*Deck Slab Repair (Partial Depth)
- Concrete Removal

\* Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2 1/2".

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BRIDGE DECK REPAIR PLAN  
STRUCTURE NO. 016-0355

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60R69				

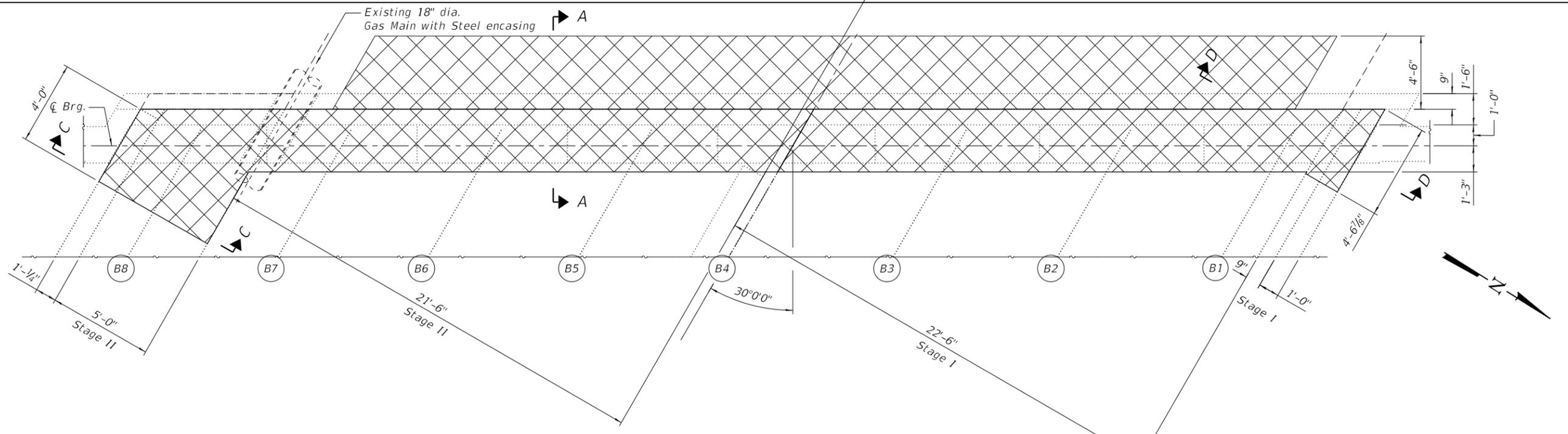
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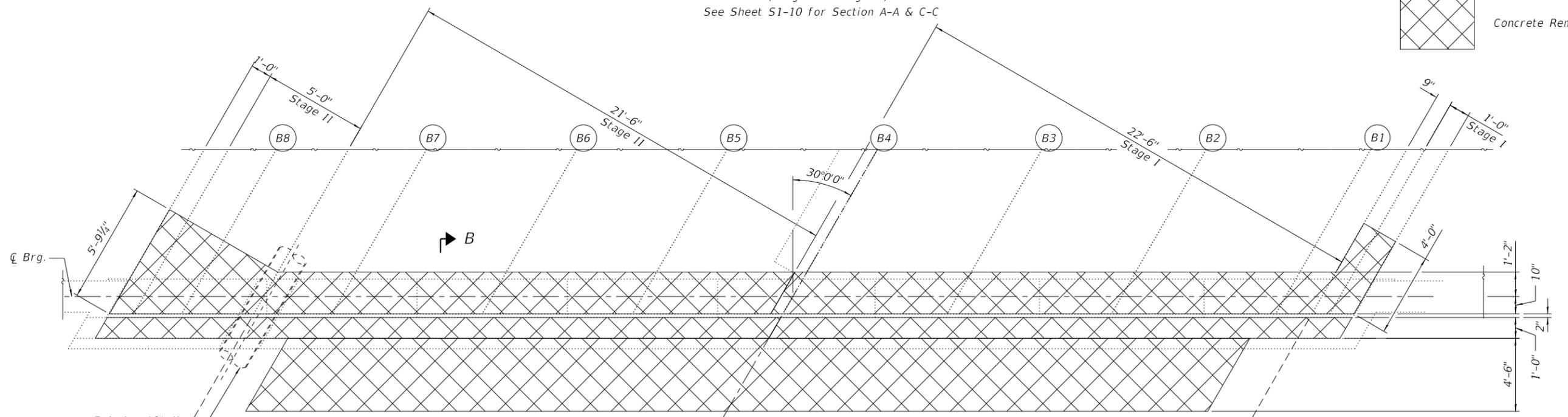
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**WEST ABUTMENT JOINT REMOVAL PLAN**  
 (Stage I & Stage II)  
 See Sheet S1-10 for Section A-A & C-C

**LEGEND**

Concrete Removal



**EAST ABUTMENT JOINT REMOVAL PLAN**  
 (Stage I & Stage II)  
 See Sheet S1-10 for Section B-B & D-D

*Note:*  
 1. Quantity for Concrete Removal is included in the Bill of Materials of Sheet S1-10

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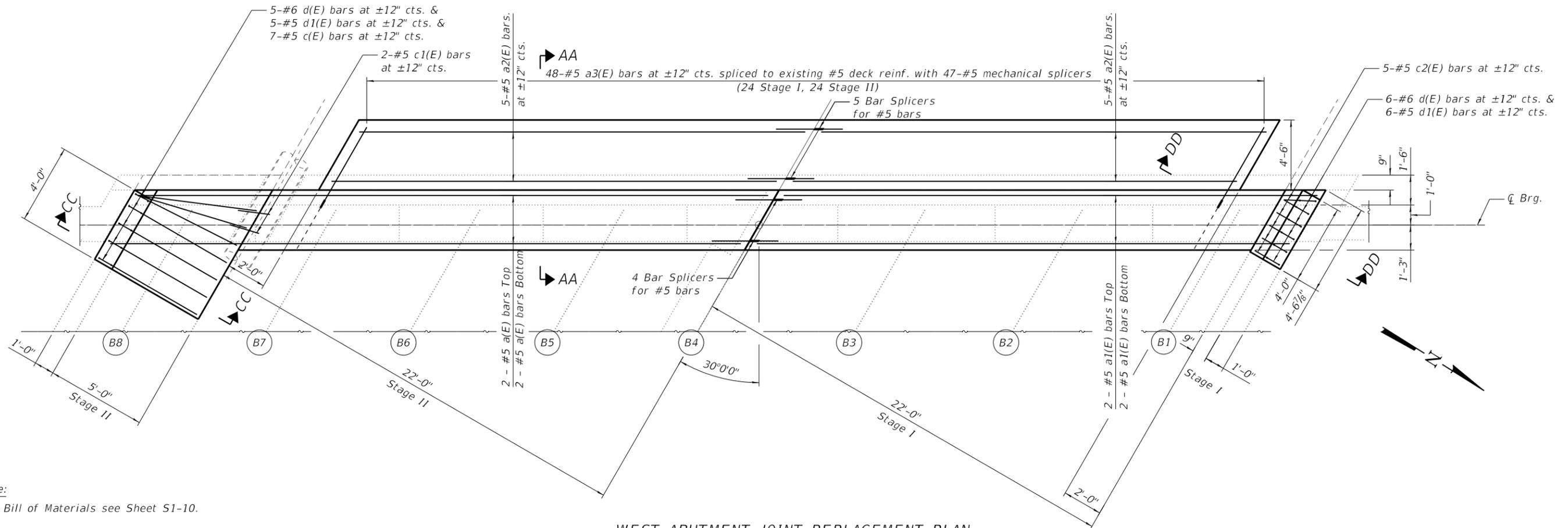
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**EAST & WEST ABUTMENT JOINT REMOVAL PLAN**  
**STRUCTURE NO. 016-0355**

SHEET S1-06 OF S1-13 SHEETS

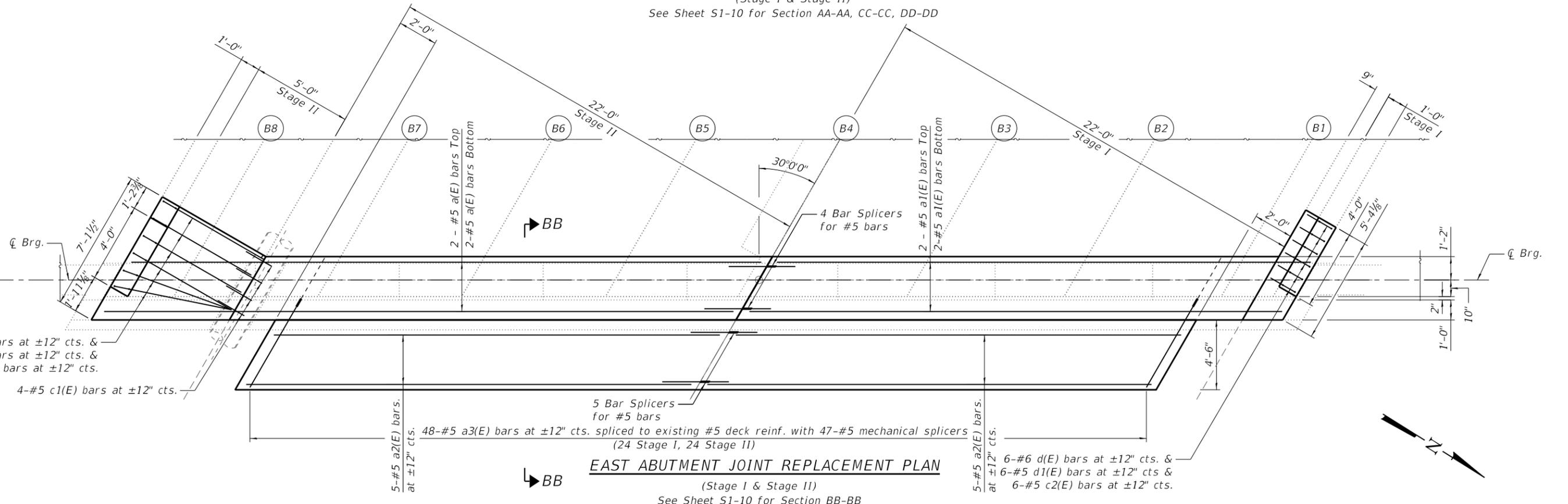
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1312	584-B-BR(11)	COOK	75	39
CONTRACT NO. 60R69				

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Note:  
For Bill of Materials see Sheet S1-10.

**WEST ABUTMENT JOINT REPLACEMENT PLAN**  
(Stage I & Stage II)  
See Sheet S1-10 for Section AA-AA, CC-CC, DD-DD



**EAST ABUTMENT JOINT REPLACEMENT PLAN**  
(Stage I & Stage II)  
See Sheet S1-10 for Section BB-BB

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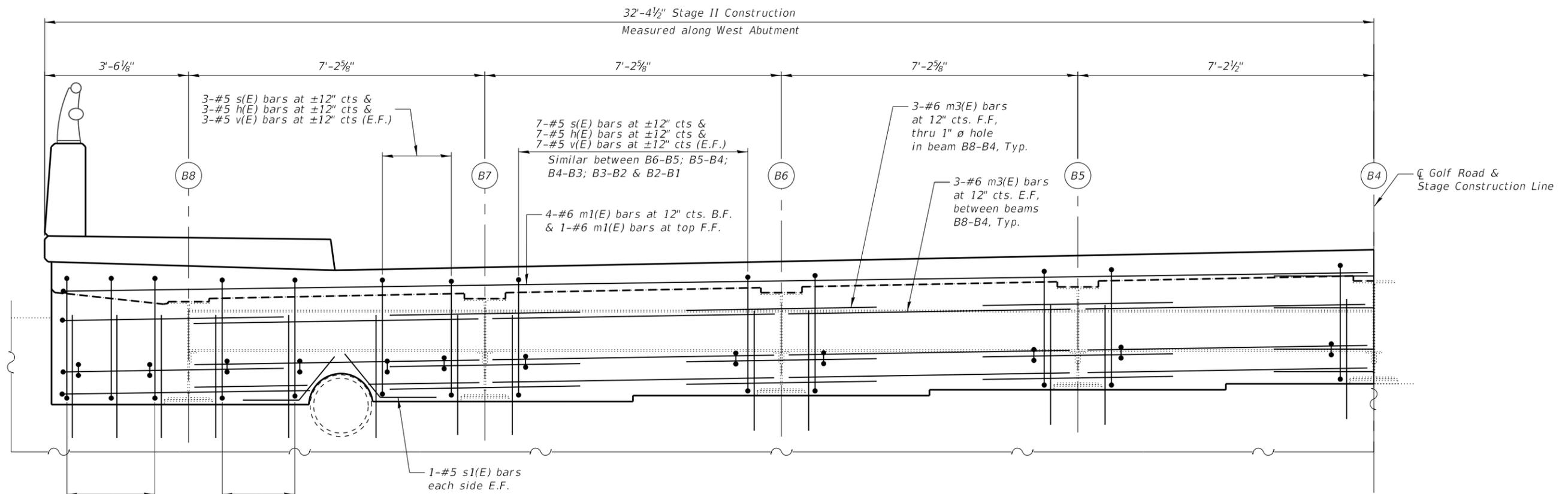
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**EAST & WEST ABUTMENT JOINT REPLACEMENT PLAN**  
**STRUCTURE NO. 016-0355**

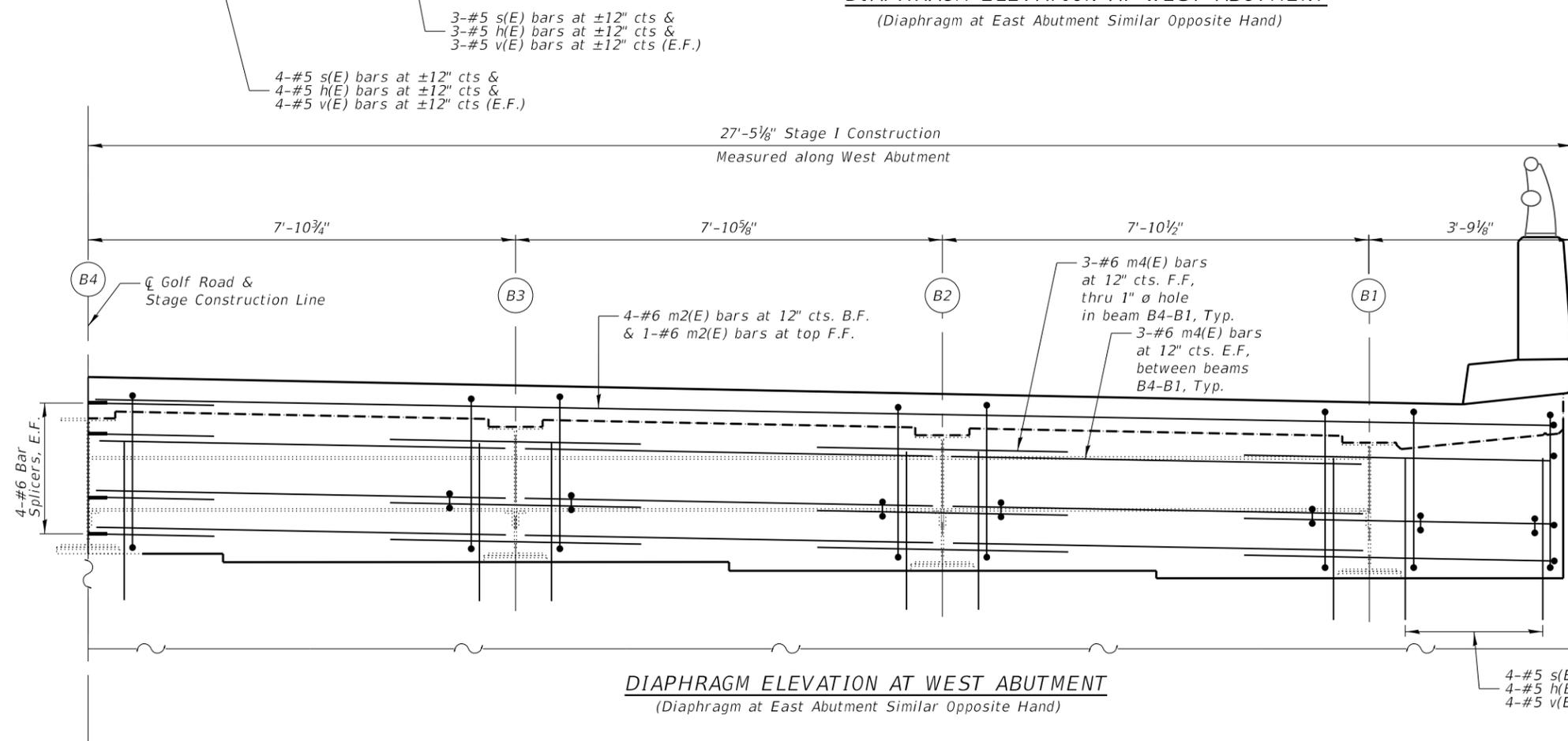
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60R69				

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**DIAPHRAGM ELEVATION AT WEST ABUTMENT**  
(Diaphragm at East Abutment Similar Opposite Hand)



**DIAPHRAGM ELEVATION AT WEST ABUTMENT**  
(Diaphragm at East Abutment Similar Opposite Hand)

**NOTES:**

1. Reinforcement bars in diaphragm are billed with superstructure on sheet S1-10.
2. Concrete in diaphragm is included with concrete superstructure on sheet S1-10
3. For details of bars s(E), s1(E) & h(E) see Sheet S1-10
4. The s(E) & s1(E) bars shall be placed parallel to the beams. spacing for these bars shall be at right angles to the beams.
5. Epoxy grout #5 v(E) & h(E) bars in 7/8" dia. drilled holes. See Art. 584 Std. Specs. Cost included with reinforcement bars, epoxy coated.
6. m3(E) and m4(E) bars shall be placed thru 1" ø field drilled hole in beam. Cost included with reinforcement bars, epoxy coated.
7. Secure bars thru 1" dia. hole in beam such that they remain centered and level during pouring of the concrete. Cost included with reinforcement bars, epoxy coated.

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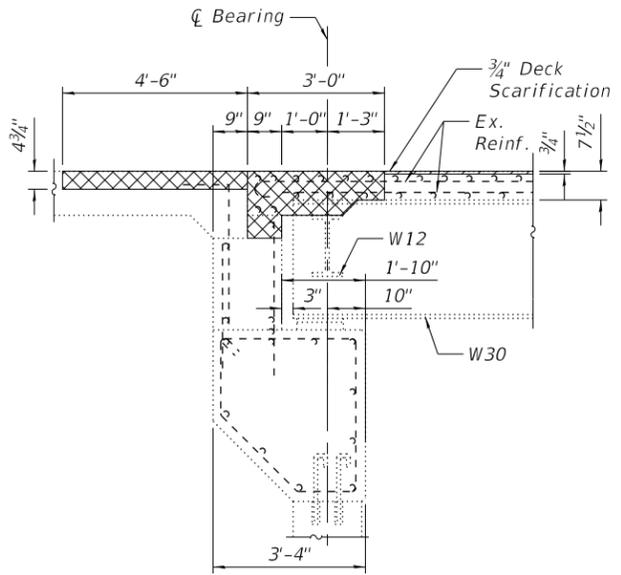
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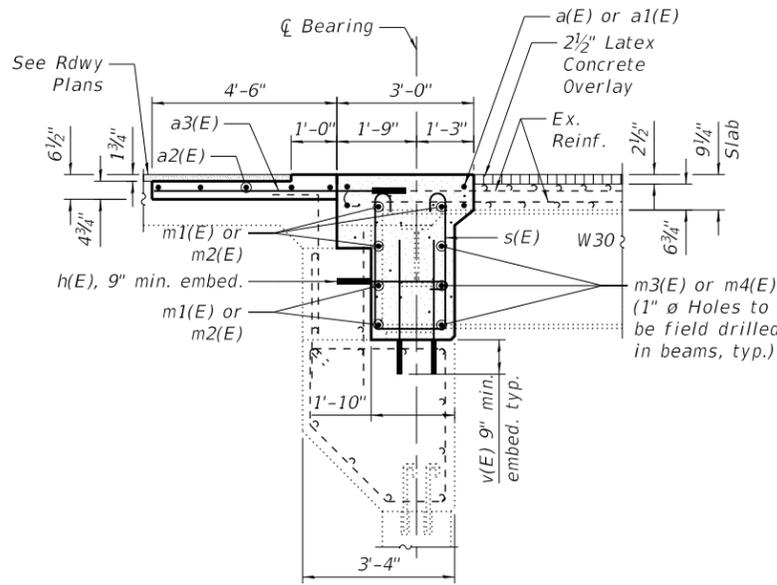
**DIAPHRAGM ELEVATION  
STRUCTURE NO. 016-0355**

SHEET S1-08 OF S1-13 SHEETS

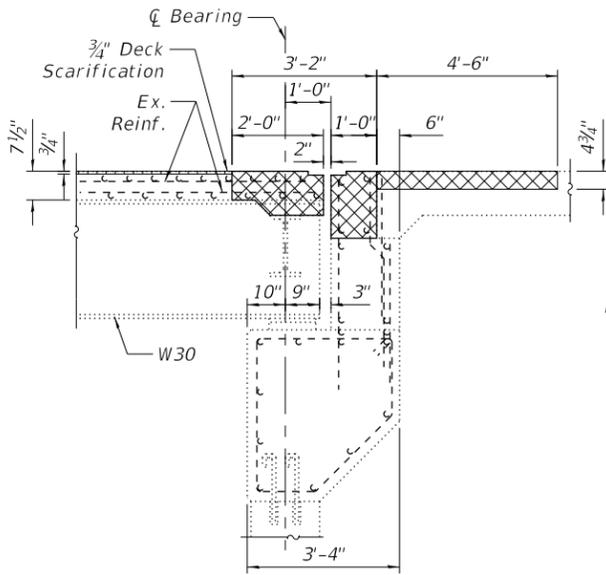
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CONTRACT NO. 60R69				
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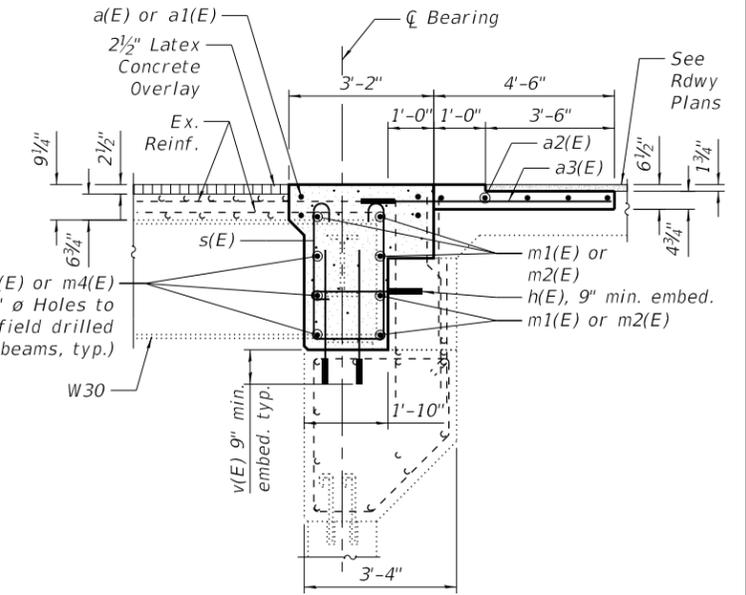
**SECTION A-A (REMOVAL)**  
West Abutment



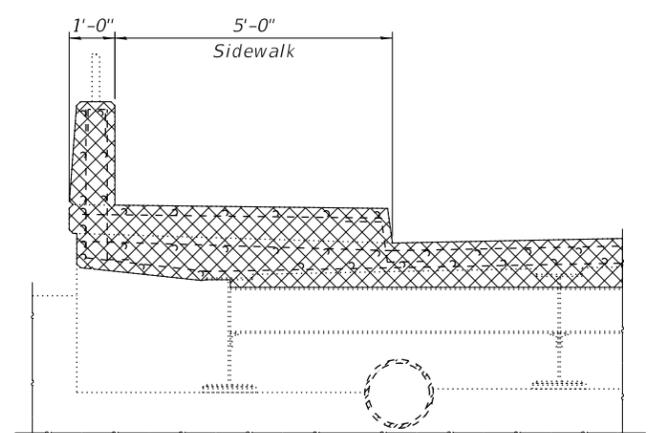
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West Abutment



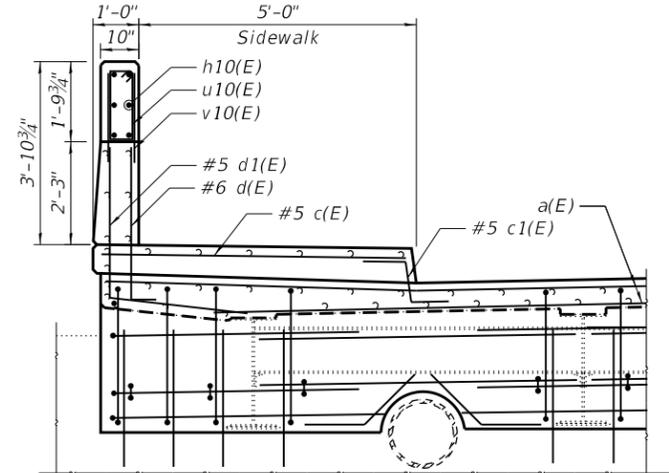
**SECTION B-B (REMOVAL)**  
East Abutment



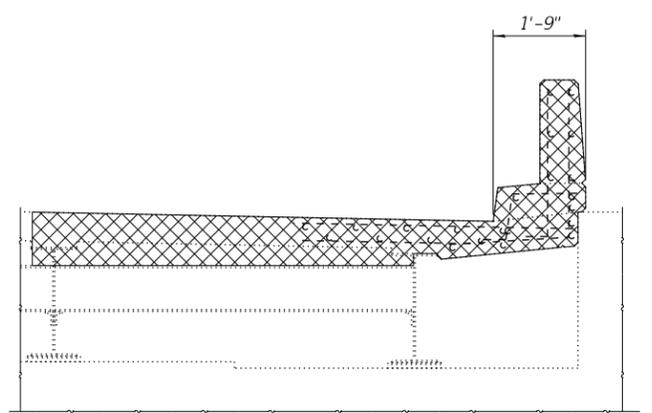
**SECTION BB-BB (CONSTRUCTION)**  
East Abutment



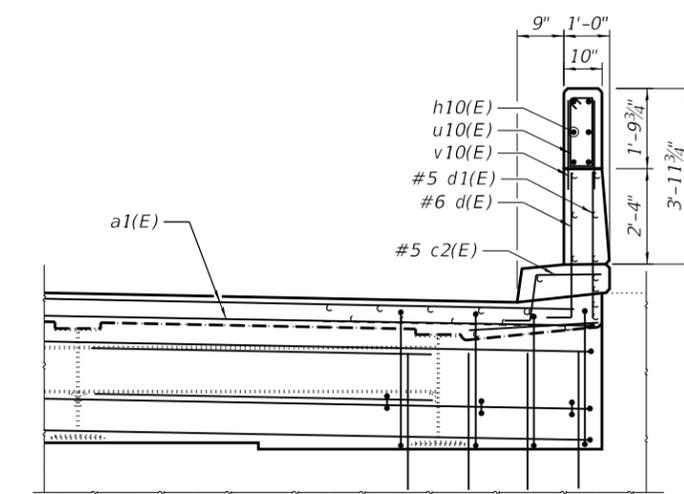
**SECTION C-C (REMOVAL)**  
South Parapet



**SECTION CC-CC (CONSTRUCTION)**  
South Parapet



**SECTION D-D (REMOVAL)**  
North Parapet



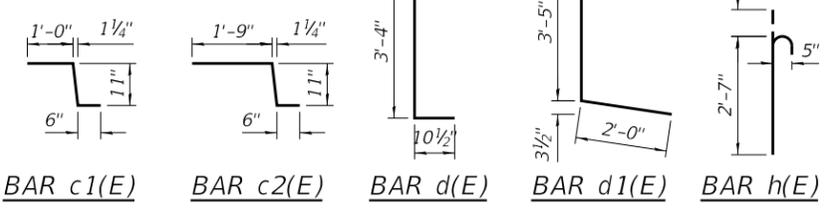
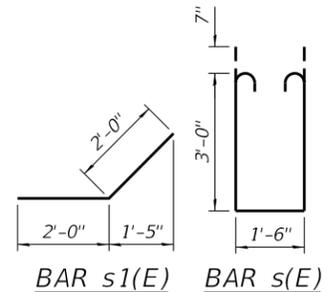
**SECTION DD-DD (CONSTRUCTION)**  
North Parapet

**NOTES:**

- For bar splicer assembly and mechanical splicer details, see Sheet S1-14.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system.
- Perimeter of concrete removal areas shall be saw cut 3/4" prior to the removal of the concrete. Existing reinforcement extending into removed area shall be cleaned, straightened and incorporated into the new construction. Cost included with concrete removal.

**LEGEND:**

- Concrete Removal
- Bridge Deck Scarification 3/4"
- Bridge Latex Concrete Overlay 2 1/2"
- HMA Overlay
- Concrete Superstructure



**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	8	#5	32'-0"	—
a1(E)	8	#5	27'-1"	—
a2(E)	20	#5	22'-9"	—
a3(E)	96	#5	5'-2"	—
c(E)	13	#5	5'-8"	—
c1(E)	6	#5	2'-5"	—
c2(E)	11	#5	3'-5"	—
d(E)	23	#6	4'-2"	—
d1(E)	23	#5	5'-6"	—
h(E)	112	#5	3'-2"	—
m1(E)	10	#6	32'-0"	—
m2(E)	10	#6	27'-1"	—
m3(E)	48	#6	7'-0"	—
m4(E)	36	#6	7'-6"	—
s(E)	112	#5	8'-8"	—
s1(E)	8	#5	4'-0"	—
v(E)	224	#5	2'-11"	—
Reinforcement Bars, Epoxy Coated	Pound		5790	
Bar Splicers	Each		34	
Mechanical Splicers	Each		96	
Concrete Removal	Cu Yd		23	
Conc. Superstructure	Cu Yd		40	

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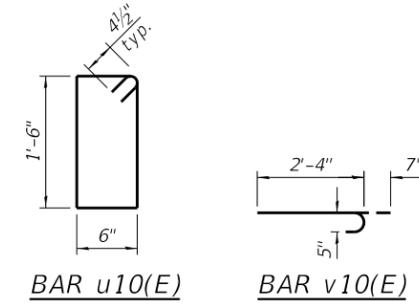
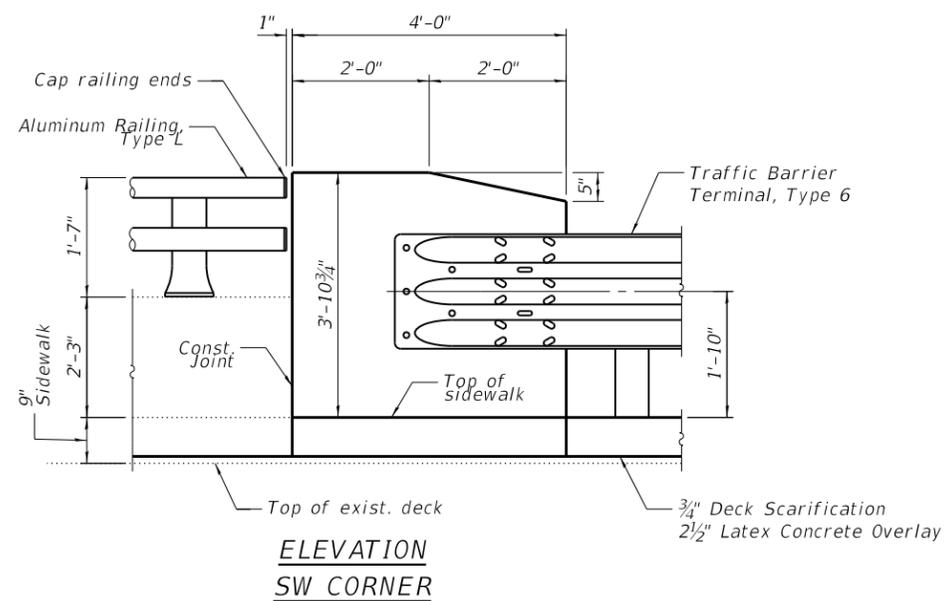
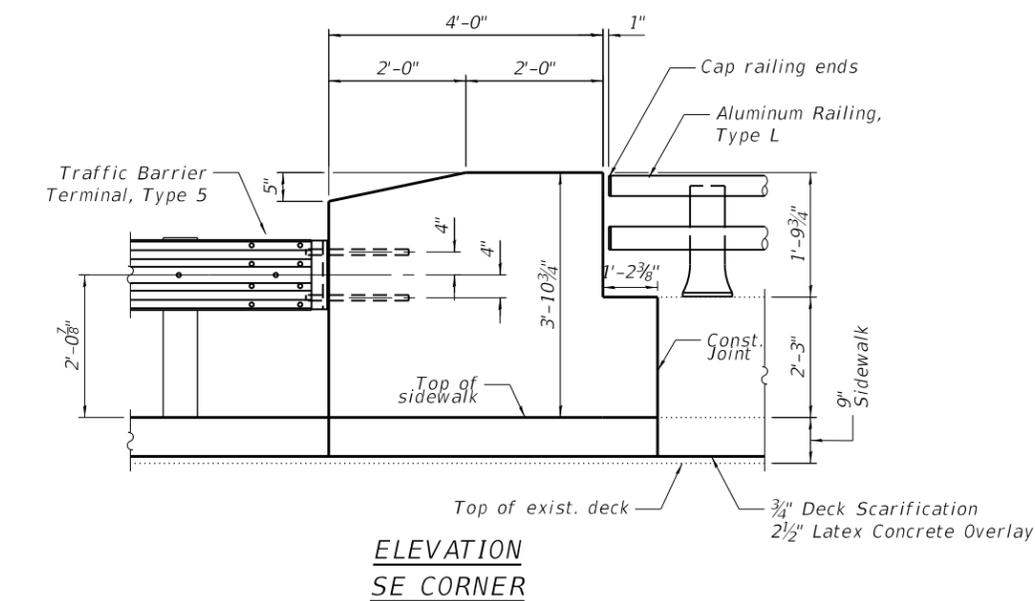
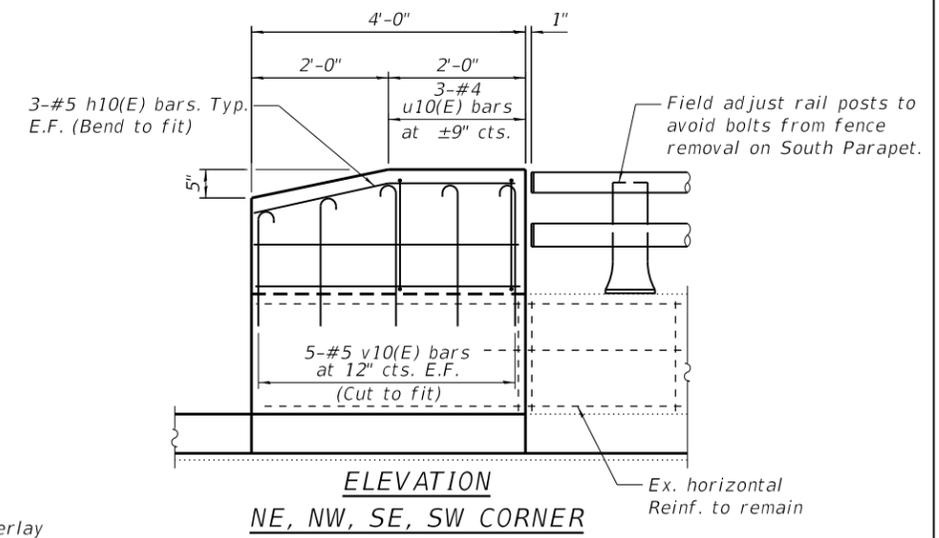
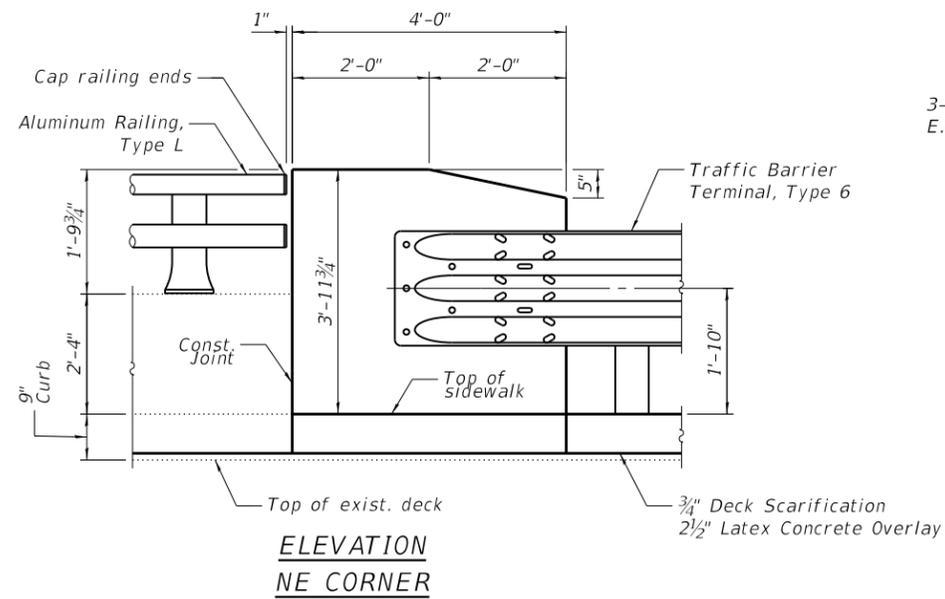
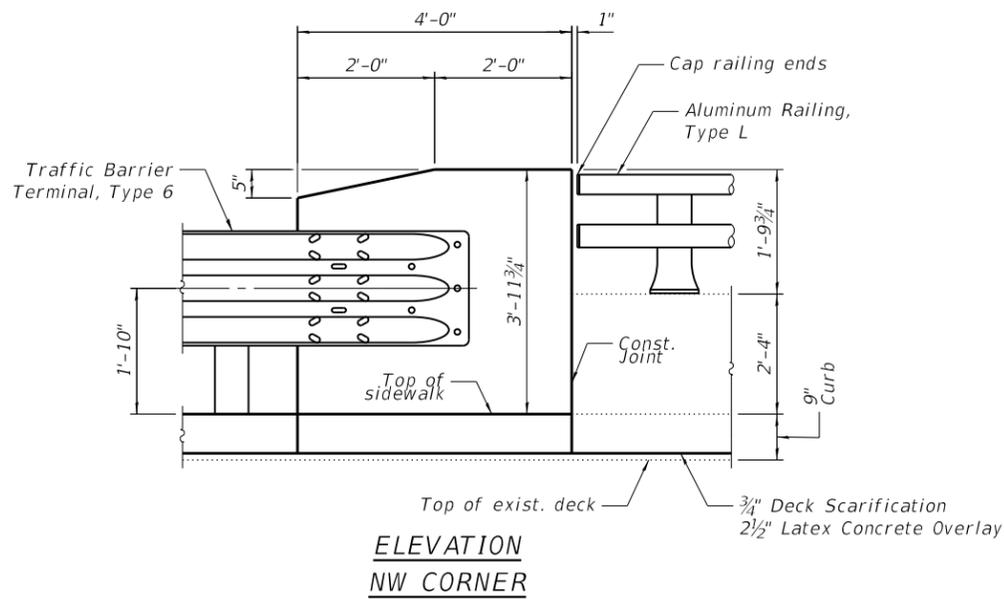
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**DIAPHRAGM DETAILS  
STRUCTURE NO. 016-0355**

SHEET S1-09 OF S1-13 SHEETS

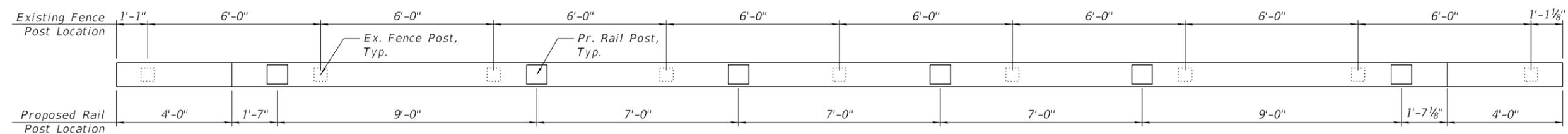
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	42
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h10(E)	24	#5	3'-8"	—
u10(E)	12	#4	4'-9"	□
v10(E)	40	#5	2'-11"	⌋
Reinforcement Bars, Epoxy Coated		Pound	250	

- NOTES:**
- For bar splicer assembly and mechanical splicer details, see Sheet S1-14.
  - Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system.
  - Concrete for parapet is included in Bill of Materials on Sheet S1-10.



Proposed rail post spacing shall be minimum of 7'-0" and maximum of 10'-0". Posts shall be installed in a pattern that does not overlap with existing fence post locations.

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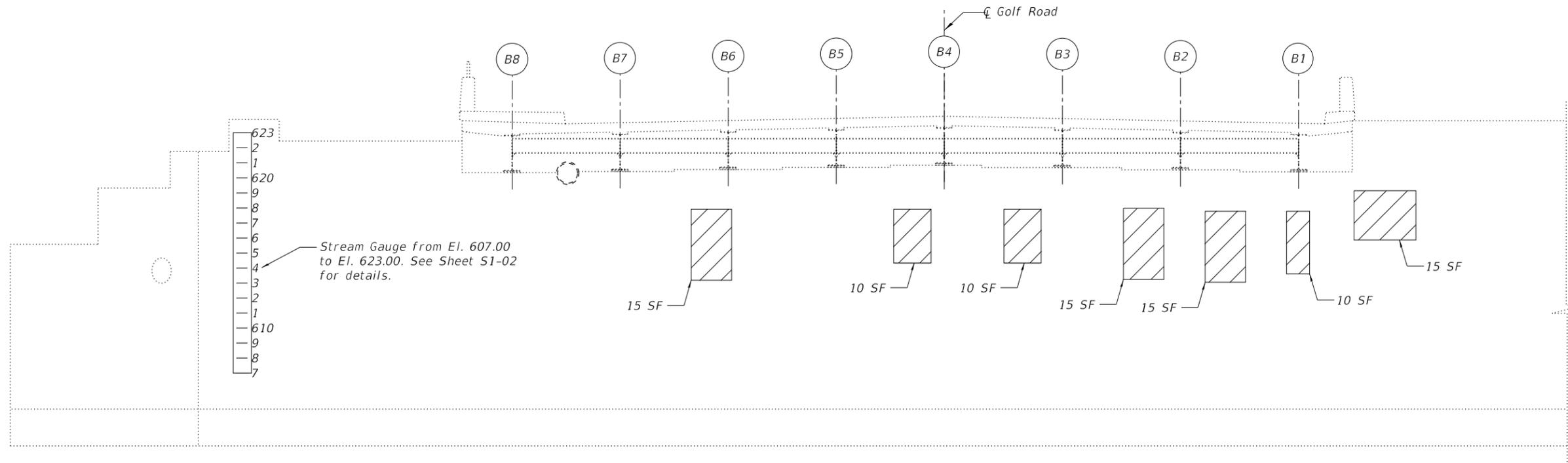
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**PARAPET AND GUARDRAIL DETAILS  
STRUCTURE NO. 016-0355**

SHEET S1-10 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	43
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				



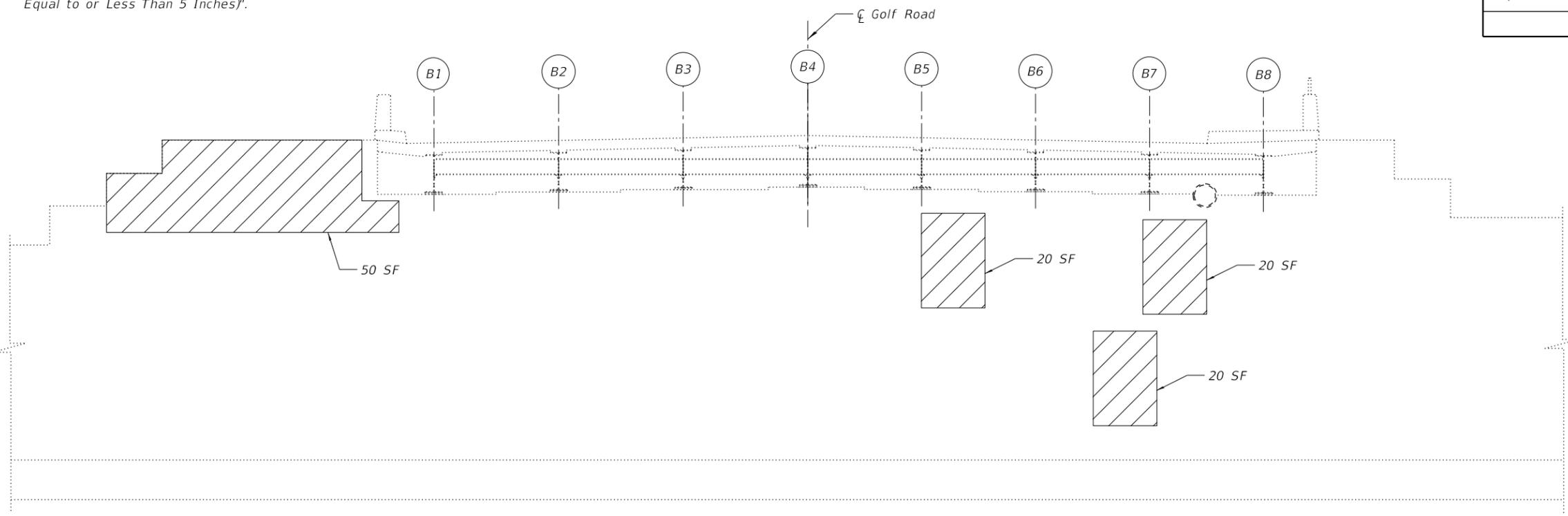
WEST ABUTMENT ELEVATION

Notes:

- Quantities and limits shown are estimated for bidding purposes only. The actual area to be repaired and the types of repairs to be used will be determined by the Engineer in the field at the time of construction.
- The Contractor shall be responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with "Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)".

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT	200



EAST ABUTMENT ELEVATION

LEGEND:

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

SF - Square Foot

MODEL: Default  
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	CHECKED - MO, MS	REVISED -
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PLOT DATE =	DATE - 11/02/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

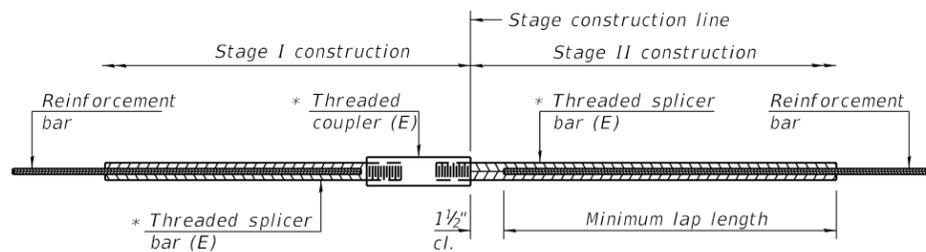
EAST AND WEST ABUTMENT REPAIRS  
STRUCTURE NO. 016-0355

SHEET S1-11 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	44
CONTRACT NO. 60R69				

ILLINOIS FED. AID PROJECT



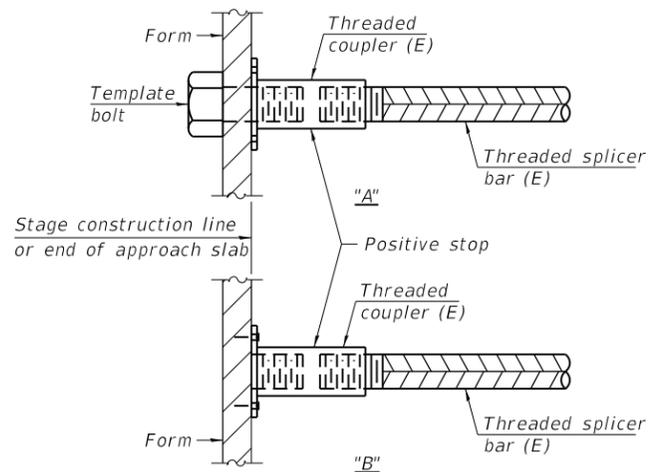


**STANDARD BAR SPLICER ASSEMBLY**

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

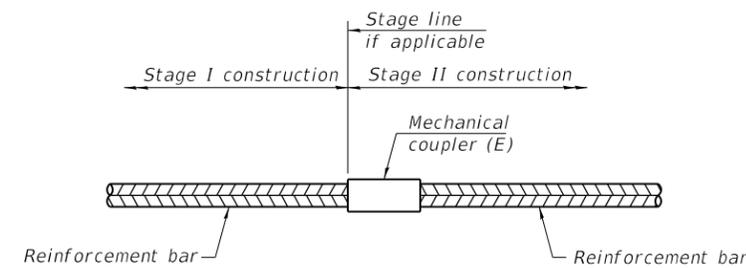
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut	#5	4	3'-0"
W. Abut	#5	5	3'-0"
W. Abut	#6	8	3'-7"
E. Abut	#5	4	3'-0"
E. Abut	#5	5	3'-0"
E. Abut	#6	8	3'-7"



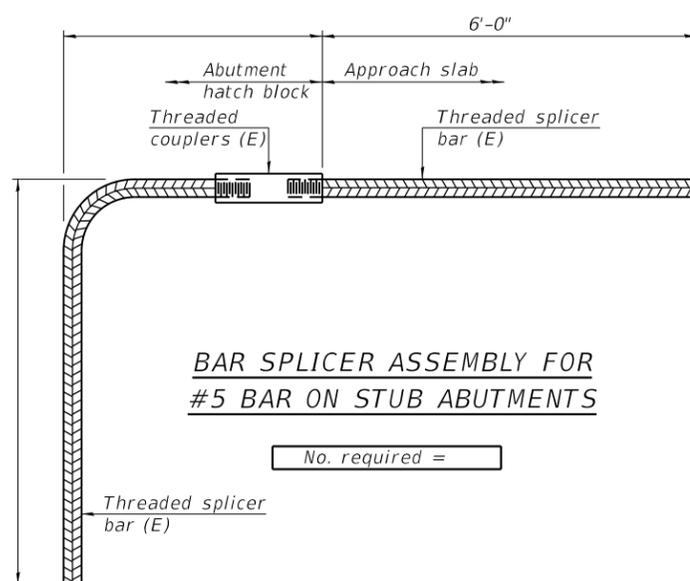
**INSTALLATION AND SETTING METHODS**

"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
W. Abut.	#5	48
E. Abut.	#5	48



**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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: Default  
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BSD-1

2-17-2017



111 S. Wacker Drive,  
 Suite 3910  
 Chicago, IL 60606  
 Ph: 312-235-6783

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	CHECKED - MO, MS	REVISED -
PLOT SCALE =	DRAWN - AWM	REVISED -
PLOT DATE =	DATE - 11/02/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 016-0355

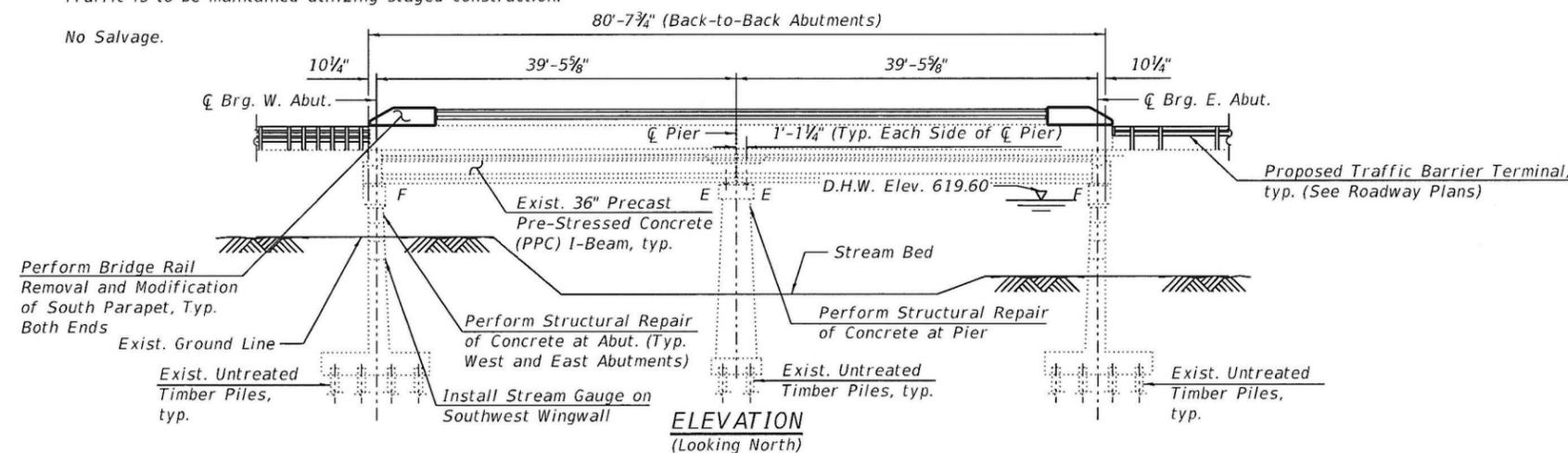
SHEET S1-13 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	46
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

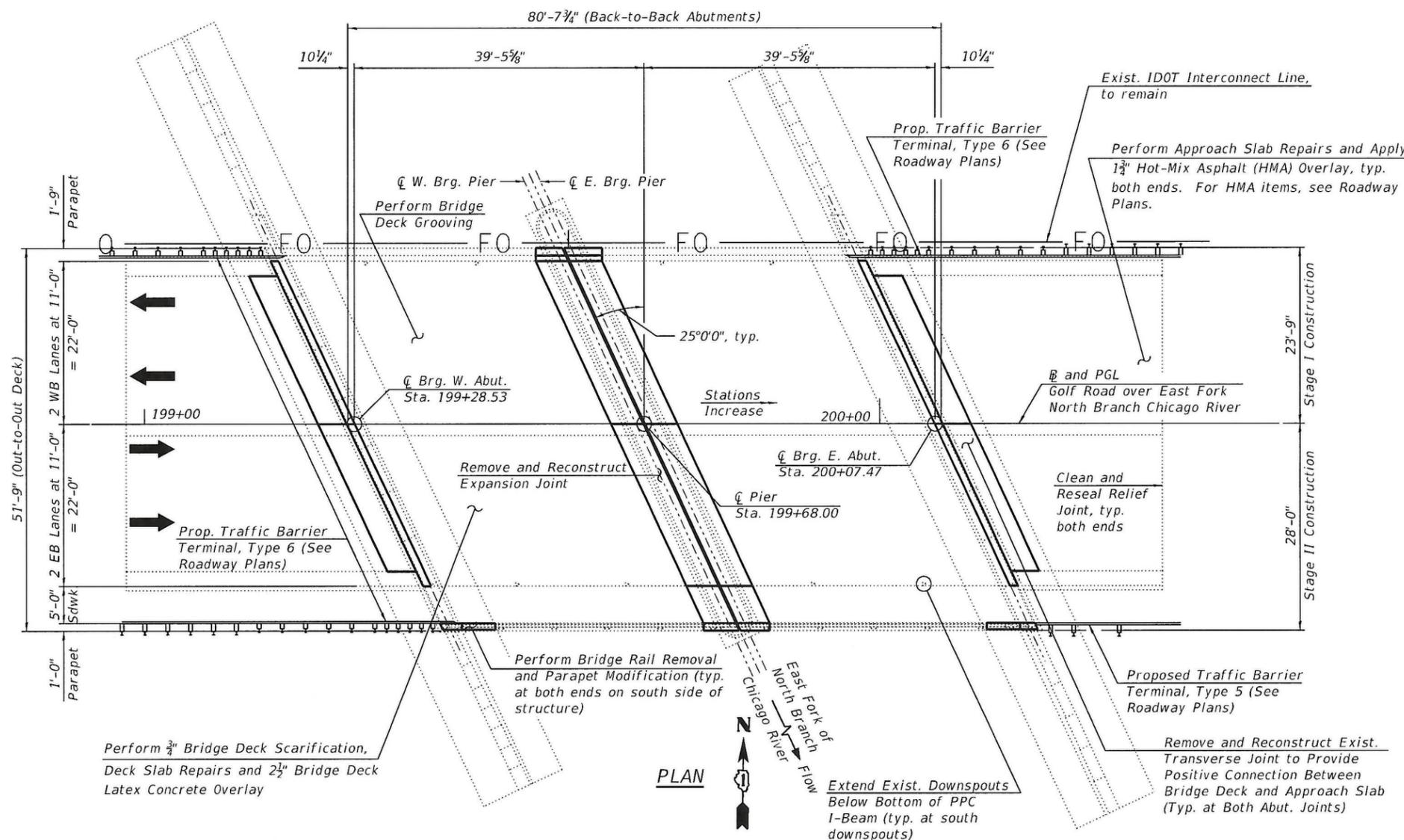
**Existing Structure:** The existing structure was built in 1928 and the superstructure was replaced in 1983. The current bridge is a two-span structure with a total length of 80'-7 3/4" (back-to-back abutments) and an overall width of 51'-9" (out-to-out deck). The superstructure consists of a 7 1/2"-thick reinforced concrete deck supported by eight (8)-36" Precast, Pre-Stressed Concrete (PPC) I-Beams. The substructure consists of reinforced concrete abutments and pier on untreated timber piles.

Traffic is to be maintained utilizing staged construction.

No Salvage.



**ELEVATION**  
(Looking North)



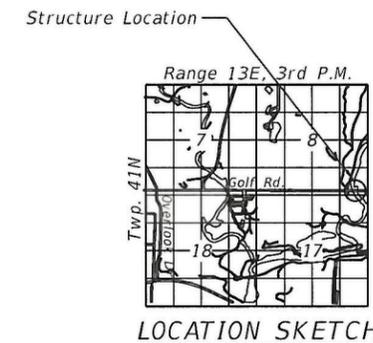
**PLAN**

**SCOPE OF WORK**

1. Perform 3/4" Bridge Deck Scarification.
2. Perform Deck Slab Repairs and Approach Slab Repairs as required.
3. Reconstruct Expansion Joint at Pier.
4. Remove and Reconstruct Abutment Transverse Joints to Provide Positive Connection Between Bridge Deck and Approach Slabs.
5. Perform Bridge Rail Removal and Parapet Modification to the South Parapet.
6. Install Traffic Barrier Terminal Sections at Both Sides and Both Ends of Bridge.
7. Perform 2 1/2" Bridge Deck Latex Concrete Overlay on Bridge Deck and 1 3/4" Hot-Mix Asphalt (HMA) Overlay on Approach Slab.
8. Perform Bridge Deck Grooving.
9. Clean and Reseal Relief Joints at both ends.
10. Perform Structural Repair of Concrete to the Abutments and Pier as Noted on the Plans.
11. Install Stream Gauge on Southwest Wingwall.
12. Apply Protective Coat to the top and inside faces of Parapet, sidewalk and to the surfaces of reconstructed transverse joints.
13. Extend Existing south downspouts below bottom of PPC I-beams.
14. Repaint Lane Markings on the Top of Deck. See Roadway Plans.



SIGNED *Moussa A. Issa*  
DR. MOUSSA A. ISSA, S.E. IL. LIC. NO. 081-005738  
EXPIRES 11-30-2020  
DATE 11/30/2018 FOR SHEETS S2-01 THRU S2-19



**GENERAL PLAN & ELEVATION**  
**FAP ROUTE 557**  
**OVER EAST FORK NORTH BRANCH**  
**CHICAGO RIVER**  
**SECTION 1977-119-W & RS**  
**COOK COUNTY**  
**STATION 199+68.00**  
**S.N. 016-0356**

MODEL: Default  
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12/11/2018 12:14:41 PM



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	DATE - 11/30/2018	REVISED -

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

**STRUCTURE NO. 016-0356**

SHEET S2-01 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	47
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

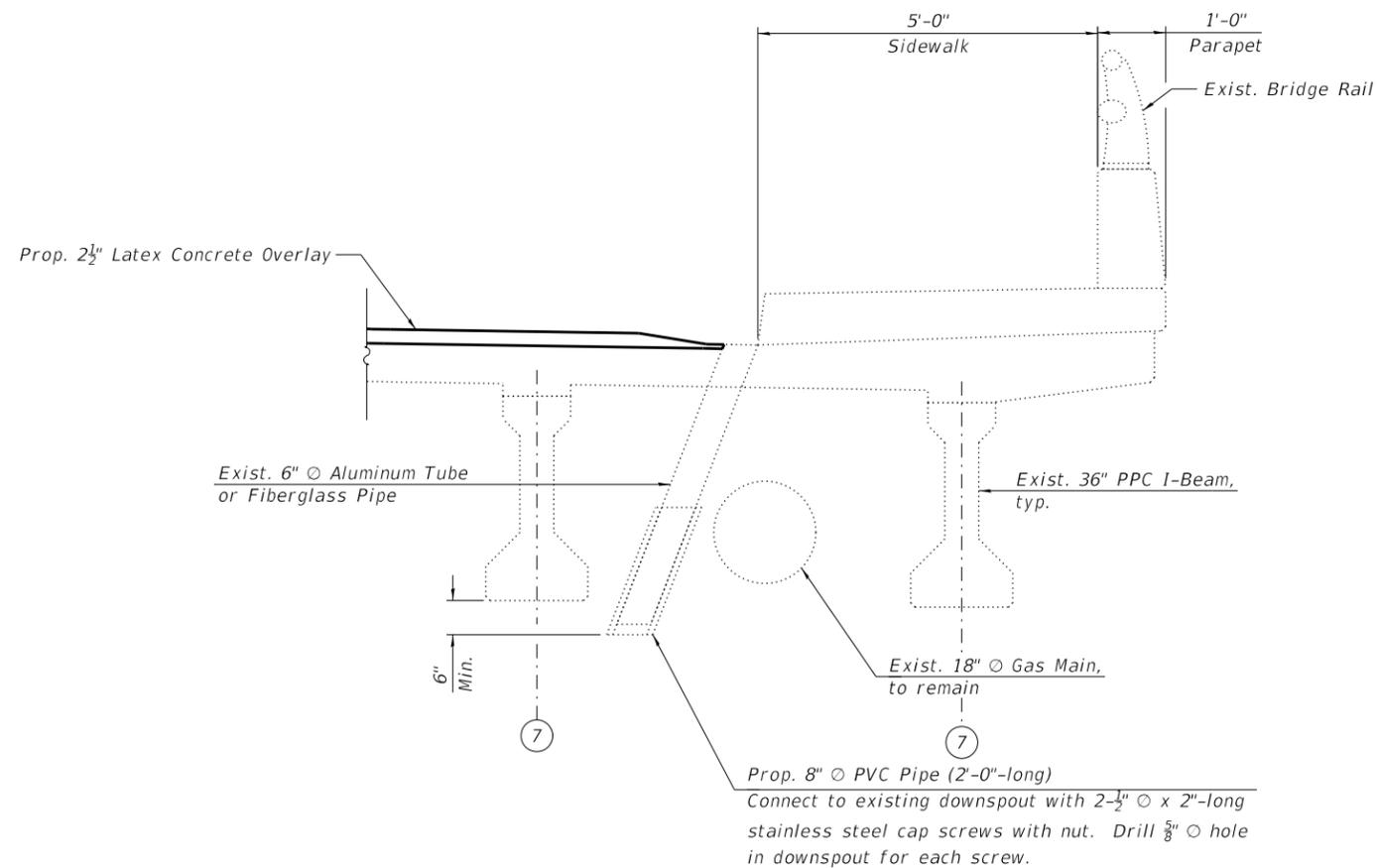
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior 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.
- Bars noted thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bars per line.
- All exposed concrete edges shall have a 3/4"x45° chamfer except where shown otherwise.
- It shall be the Contractor's responsibility to temporarily support the existing 18" Ø gas main between Beams 7 and 8 as required during Partial- and Full-Depth Deck Slab Repairs. All existing gas main support hangers suspended from, and/or embedded in, the existing deck shall be re-installed as required in the areas of deck slab repairs. Cost included with Deck Slab Repair (Full Depth, Type II).
- The Contractor shall take all necessary precautions during removal and construction operations to avoid damaging the existing 18" Ø gas main and associated supports between Beams 7 and 8, existing IDOT Interconnect Line at north side of north parapet, and existing AT&T Infrastructure at southwest corner of bridge. Any damage to the existing gas main, associated supports and/or other utilities caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- Synthetic fibers shall be added to the Bridge Deck Overlay. See Special Provisions.

**INDEX OF SHEETS**

- S2-01 General Plan and Elevation
- S2-02 General Notes, Index of Sheets and Total Bill of Material
- S2-03 Stage Construction (Sheet 1 of 2)
- S2-04 Stage Construction (Sheet 2 of 2)
- S2-05 Deck Repair Plan
- S2-06 Approach Slab Repairs
- S2-07 West Abutment Joint Removal and Reconstruction
- S2-08 East Abutment Joint Removal and Reconstruction
- S2-09 Pier Joint Removal and Reconstruction
- S2-10 Pier Joint Details
- S2-11 Parapet Elevation and Retrofit Details (Sheet 1 of 2)
- S2-12 Parapet Elevation and Retrofit Details (Sheet 2 of 2)
- S2-13 Preformed Joint Strip Seal - Sidewalk (Sheet 1 of 3)
- S2-14 Preformed Joint Strip Seal - Sidewalk (Sheet 2 of 3)
- S2-15 Preformed Joint Strip Seal - Sidewalk (Sheet 3 of 3)
- S2-16 West Abutment Repairs
- S2-17 East Abutment Repairs
- S2-18 Pier Repairs
- S2-19 Bar Splicer Assembly and Mechanical Splicer Details

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	CU YD	31.8	-	31.8
Bridge Rail Removal	FOOT	14	-	14
Concrete Superstructure	CU YD	35.6	-	35.6
Bridge Deck Grooving	SQ YD	431	-	431
Protective Coat	SQ YD	107	-	107
Reinforcement Bars, Epoxy Coated	POUND	6,160	-	6,160
Bar Splicers	EACH	50	-	50
Mechanical Splicers	EACH	84	-	84
Preformed Joint Strip Seal	FOOT	57	-	57
Epoxy Crack Injection	FOOT	15	-	15
Clean & Reseal Relief Joint	FOOT	80	-	80
Stream Gauge	EACH	-	1	1
Floor Drain Extension	EACH	4	-	4
Approach Slab Repair (Full Depth)	SQ YD	8	-	8
Bridge Deck Latex Concrete Overlay, 2 1/2 Inches	SQ YD	377	-	377
Bridge Deck Scarification 3/4"	SQ YD	377	-	377
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	SQ FT	11	235	246
Deck Slab Repair (Full Depth, Type II)	SQ YD	14	-	14



**FLOOR DRAIN EXTENSION**  
(Typ. at all 4 south downspouts)

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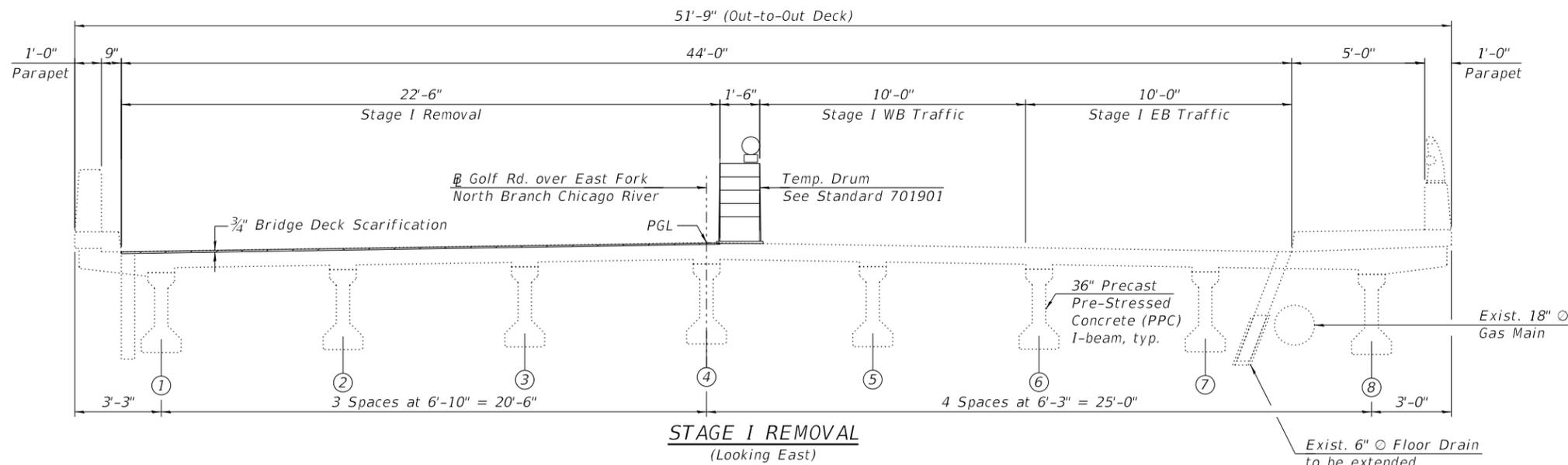
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

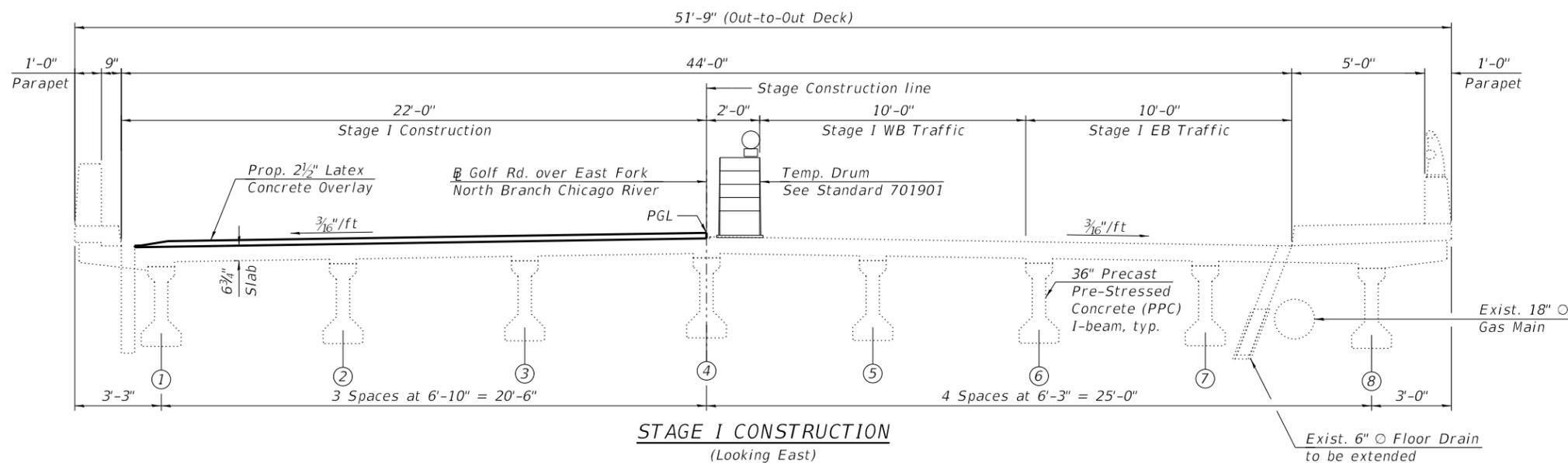
**GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL**  
**STRUCTURE NO. 016-0356**

SHEET S2-02 OF S2-19 SHEETS

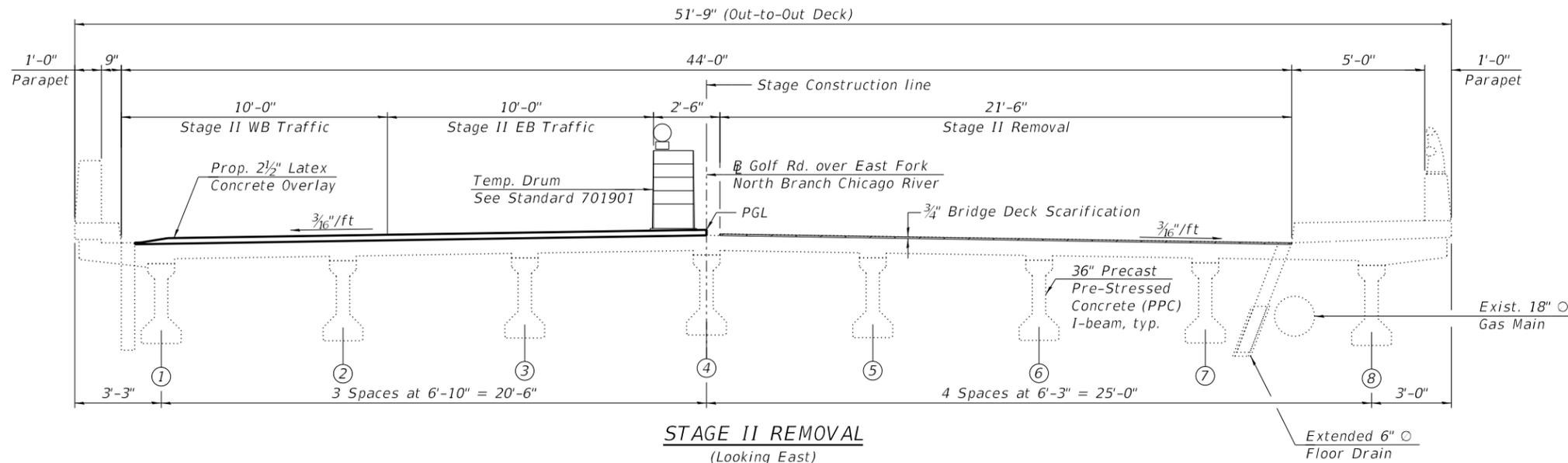
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	48
CONTRACT NO. 60R69				
		ILLINOIS	FED. AID PROJECT	



**STAGE I REMOVAL**  
(Looking East)



**STAGE I CONSTRUCTION**  
(Looking East)



**STAGE II REMOVAL**  
(Looking East)

**STAGE I REMOVAL**

1. Install temporary drum as shown to locate traffic on the south side of the existing structure.
2. Scarify 3/4" from the top of deck slab.
3. Perform deck slab removal and approach slab removal (associated with deck/approach slab repairs) at the locations shown in the plans.
4. Remove portions of bridge deck adjacent to expansion joint at pier, and portions of bridge deck/approach slab adjacent to abutment joints, as shown in the plans.

**STAGE I CONSTRUCTION**

1. Perform full- and partial-depth deck slab repairs, and approach slab repairs, at locations as shown in the plans.
2. Install Traffic Barrier Terminal, Type 6.
3. Install mechanical splicers, place associated reinforcement, and re-cast deck/approach slabs at the abutment joints.
4. Install preformed joint strip seal at pier and replace associated reinforcement and concrete adjacent to the joint.
5. Perform structural repair of concrete for the abutments and pier.
6. Apply 2 1/2" bridge deck latex concrete overlay to bridge deck slab.
7. Perform bridge deck grooving for the 2 1/2" bridge deck latex concrete overlay and the reconstructed areas of abutment and pier transverse joints.
8. Apply 1 3/4" Hot-Mix Asphalt (HMA) Overlay to approach slabs.
9. Clean and Reseal Relief joints.
10. Apply protective coat to the top of reconstructed transverse joint areas and the top and inside faces of Reconstructed Parapets.
11. Repaint pavement markings on top of deck and approach slabs.

**STAGE II REMOVAL**

1. Install temporary drum as shown to locate traffic on the north side of the existing structure.
2. Remove portions of bridge railing as shown in the plans.
3. Scarify 3/4" from the top of deck slab.
4. Perform deck slab removal and approach slab removal (associated with deck/approach slab repairs) at the locations shown in the plans.
5. Remove portions of bridge deck adjacent to expansion joint at pier, and portions of bridge deck/approach slab adjacent to abutment joints, as shown in the plans.

**LEGEND**

- Bridge Deck Scarification
- Latex Concrete Overlay

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	DATE - 11/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION (SHEET 1 OF 2)  
STRUCTURE NO. 016-0356**

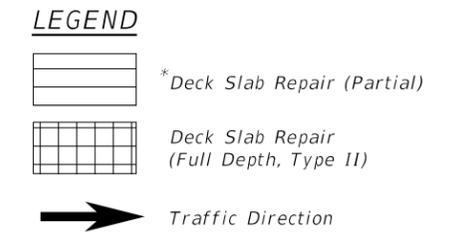
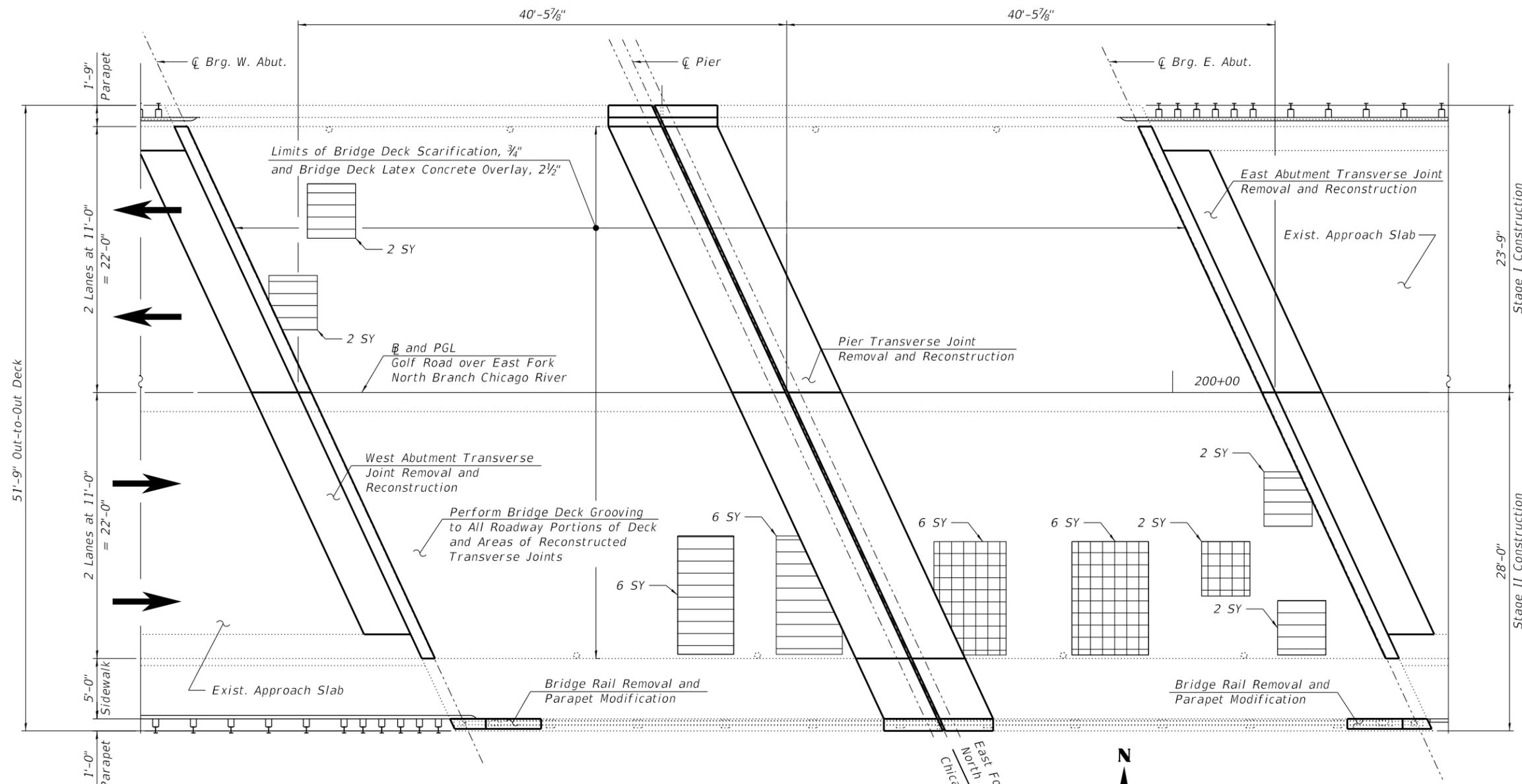
SHEET S2-03 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	49
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Bridge Deck Grooving	Sq Yd	431
Bridge Deck Latex Concrete Overlay, 2½"	Sq Yd	377
Bridge Deck Scarification, ¾"	Sq Yd	377
Deck Slab Repair (Full Depth, Type II)	Sq Yd	14



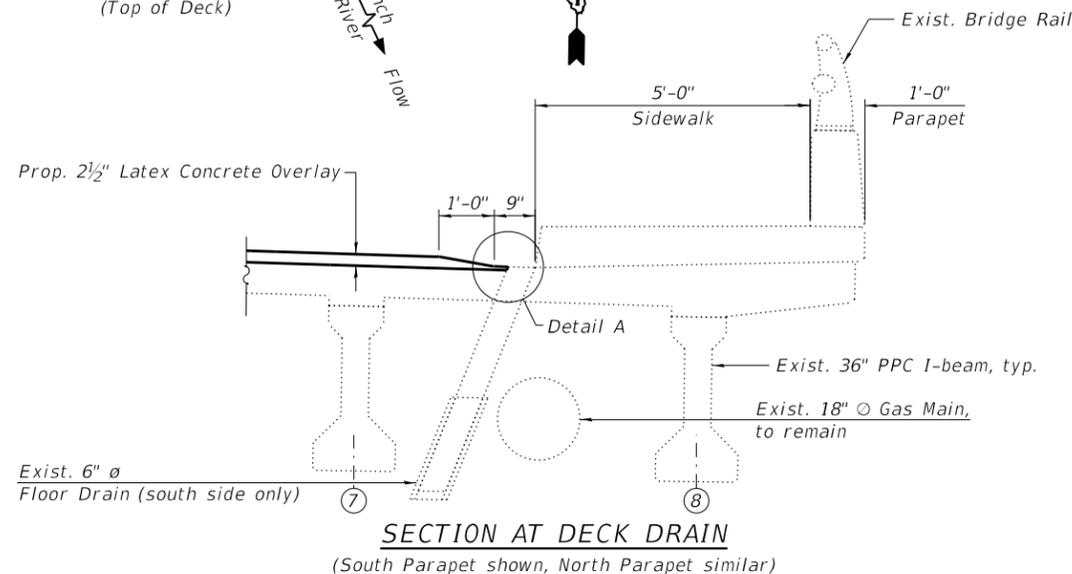
\*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2½".



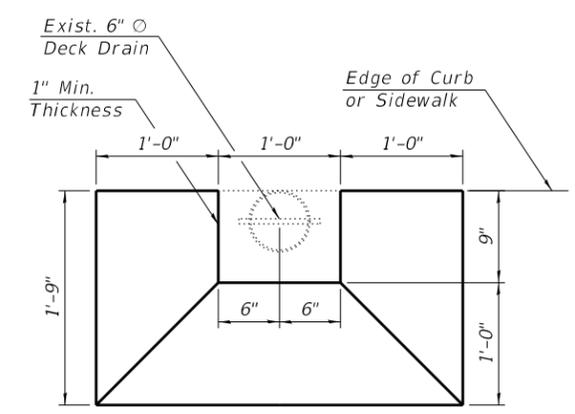
**NOTES:**

1. Areas of deck repair shown are estimated. The Engineer shall show actual locations of deck repairs at the time of construction.
2. For bridge deck final cross-section, see Sheet S2-04.
3. For West and East Abutments transverse joint removal and reconstruction, see Sheets S2-07 and S2-08, respectively.
4. For Pier transverse joint removal and reconstruction, see Sheets S2-09 and S2-10.
5. For South Bridge Rail Removal, Parapet Repairs and Parapet Modification, see Sheets S2-11 and S2-12.
6. Perform bridge deck grooving for the bridge deck latex concrete overlay and the roadway portion of the reconstructed transverse joints.
7. Protective Coat shall be applied to top and inside face of parapets, sidewalks and the transverse joints reconstructed areas.
8. The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the PPC I-beams. Any damage to the existing PPC I-beams caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.

**DECK PLAN**  
(Top of Deck)



**SECTION AT DECK DRAIN**  
(South Parapet shown, North Parapet similar)



**TOP PLAN**

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

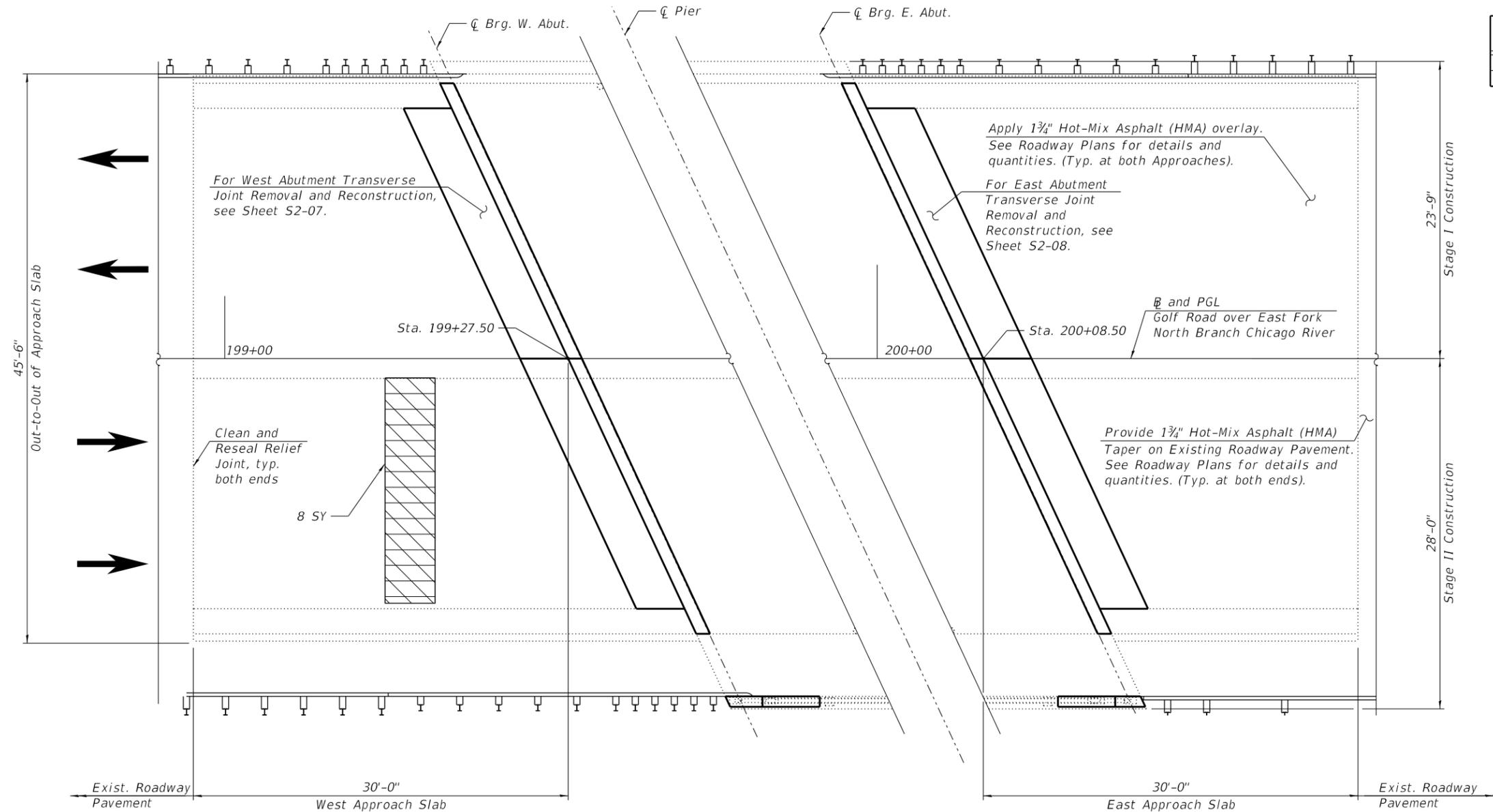
**DECK REPAIR PLAN**  
**STRUCTURE NO. 016-0356**

SHEET S2-05 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	51
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Clean & Reseal Relief Joint	Foot	80
Approach Slab Repair (Full Depth)	Sq. Yd.	8



**PARTIAL PLAN**  
(West and East Approaches)



**NOTES:**

1. Areas of Approach Slab Repair (Full Depth) shown are estimated. The Engineer shall show actual locations of repairs at the time of construction.
2. For South Bridge Rail Removal, Parapet Repairs and Parapet Modification, see Sheets S2-11 and S2-12.

**LEGEND**

- Approach Slab Repair (Full Depth)
- Traffic Direction

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB REPAIRS  
STRUCTURE NO. 016-0356**

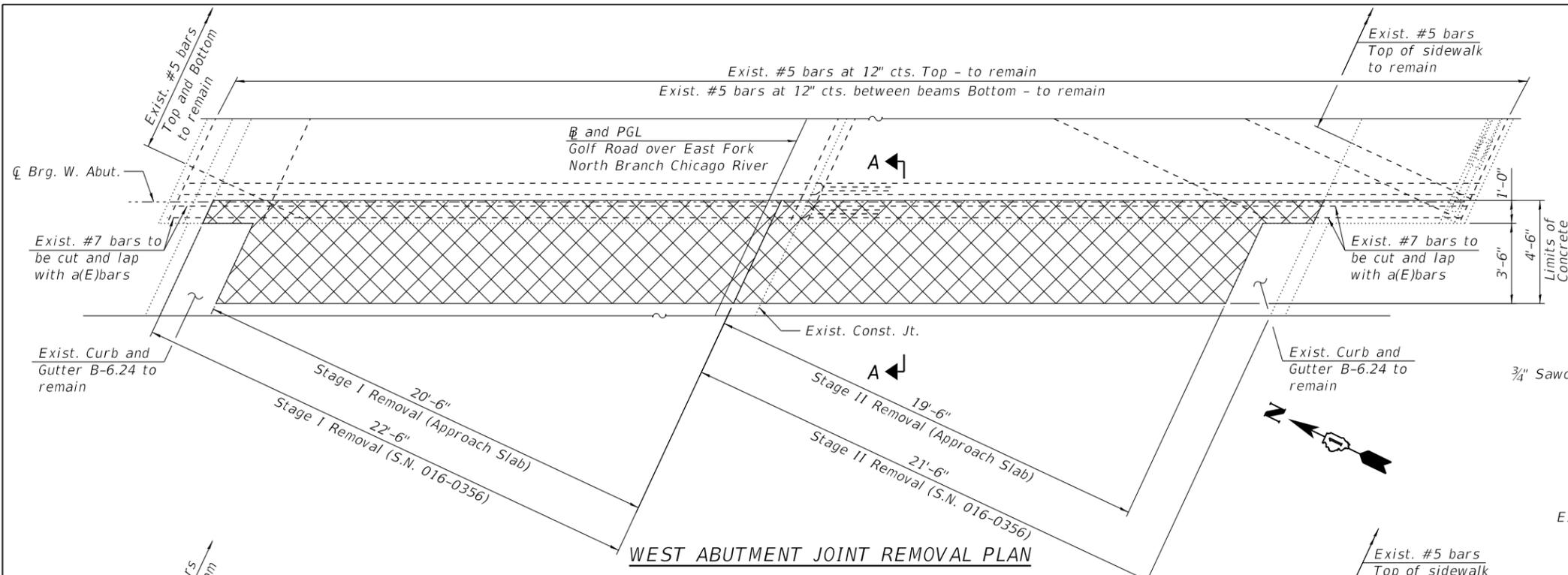
SHEET S2-06 OF S2-19 SHEETS

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CONTRACT NO. 60R69				

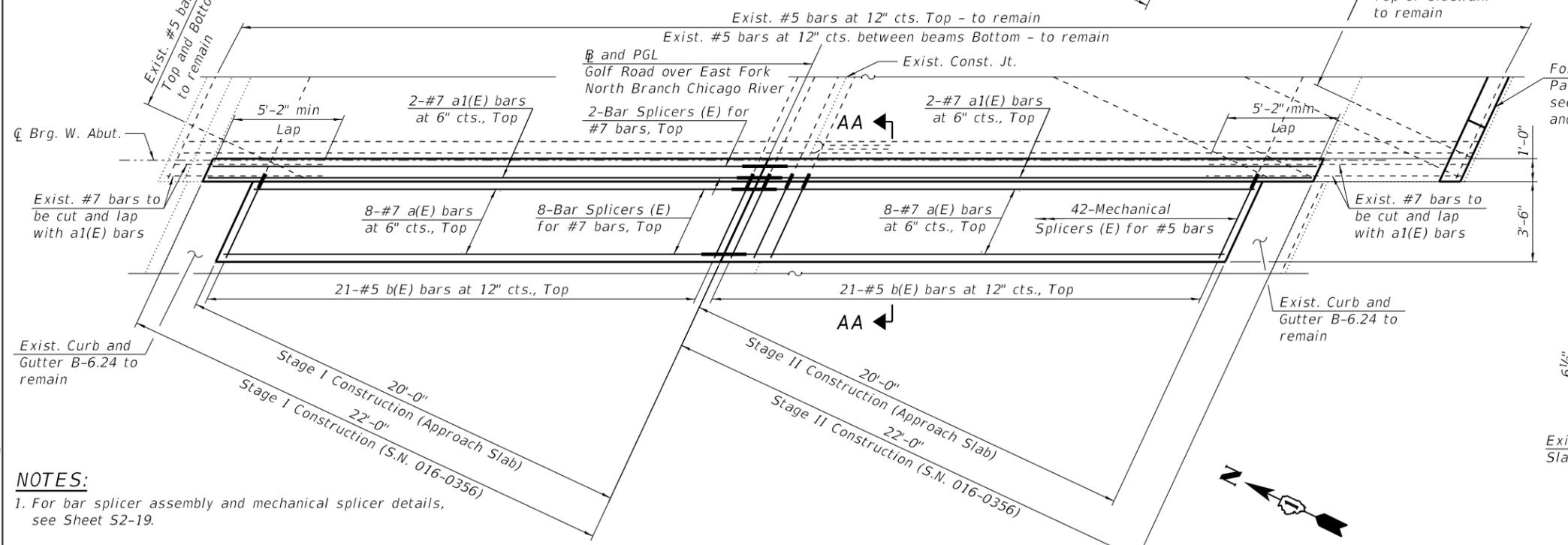
ILLINOIS FED. AID PROJECT

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	16	#7	21'-9"	—
a1(E)	4	#7	23'-11"	—
b(E)	42	#5	3'-8"	—
Concrete Removal			Cu. Yd.	3.0
Concrete Superstructure			Cu. Yd.	3.3
Protective Coat			Sq. Yd.	23
Reinforcement Bars, Epoxy Coated			Pound	1,070

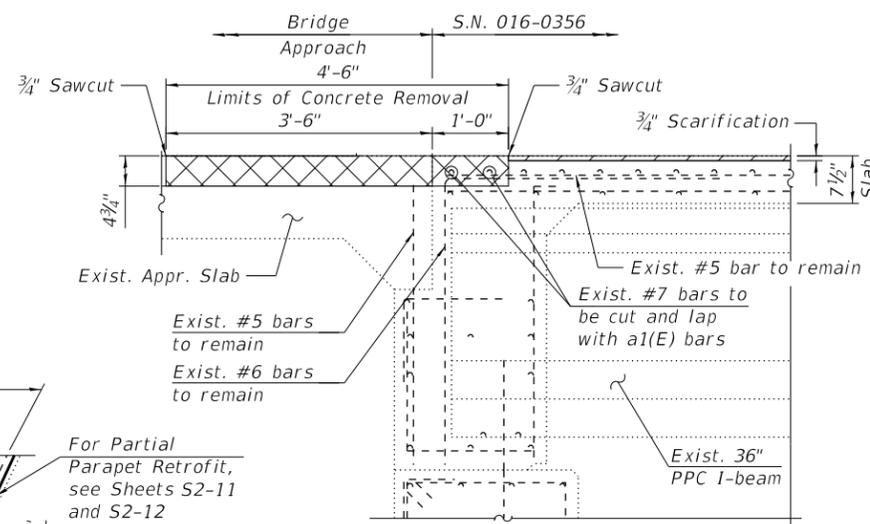


**WEST ABUTMENT JOINT REMOVAL PLAN**

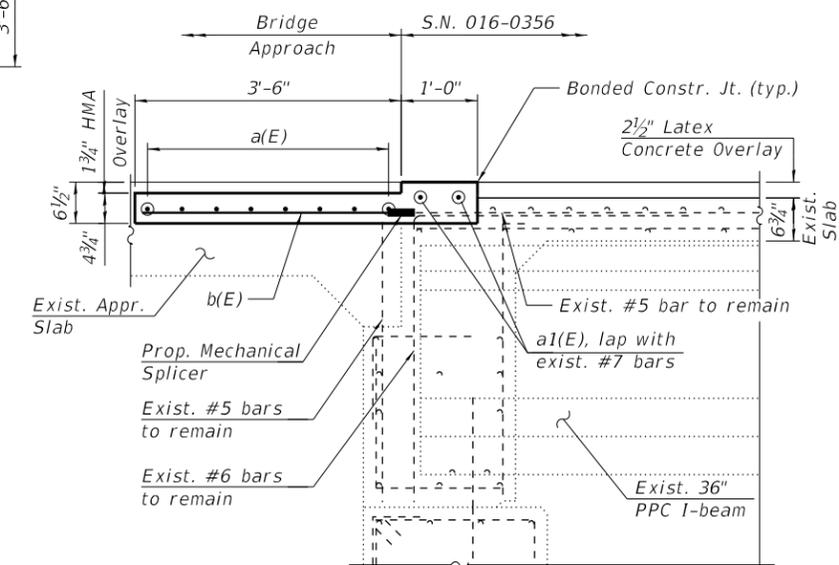


**WEST ABUTMENT JOINT RECONSTRUCTION PLAN**

- NOTES:**
- For bar splicer assembly and mechanical splicer details, see Sheet S2-19.
  - Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the 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.
  - The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the existing PPC I-beams and approach concrete curb and gutter, to remain. Any damage to the existing PPC I-beams, and/or approach concrete curb and gutter, caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.



**SECTION A-A**



**SECTION AA-AA**

**LEGEND**

- Concrete Removal
- Bridge Deck Scarification

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

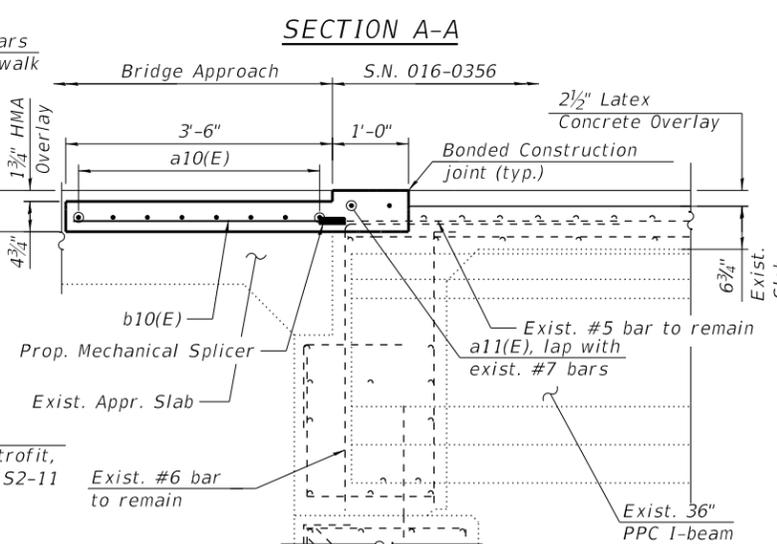
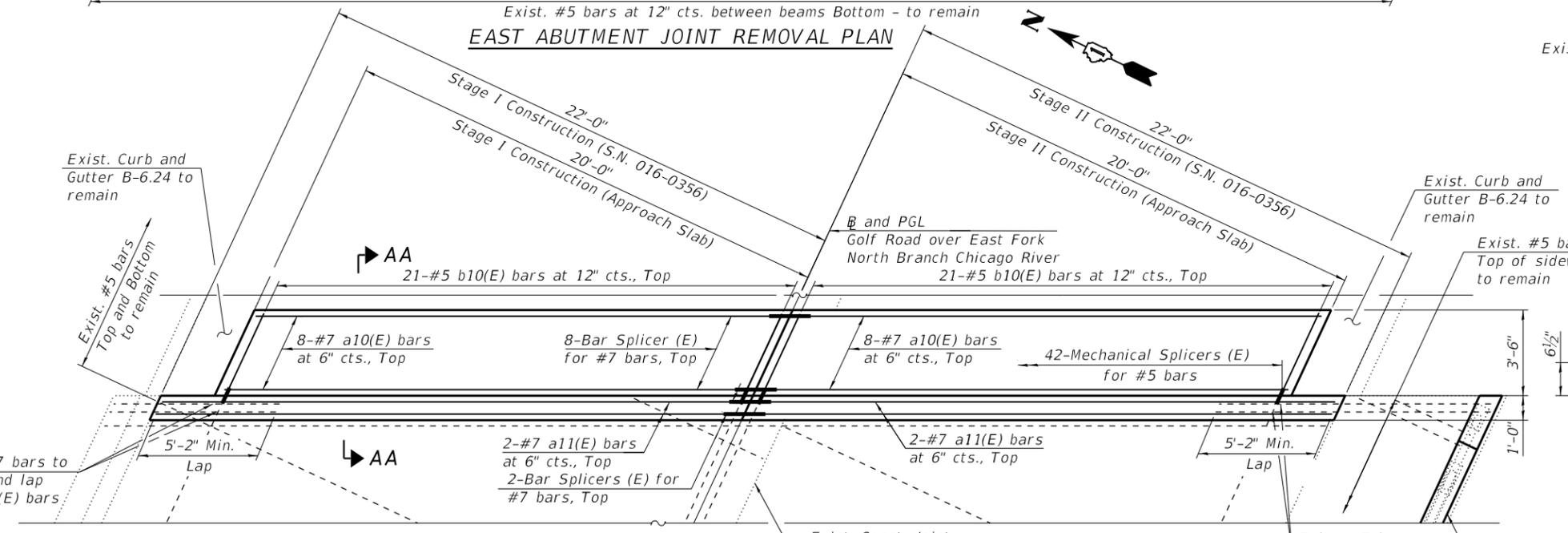
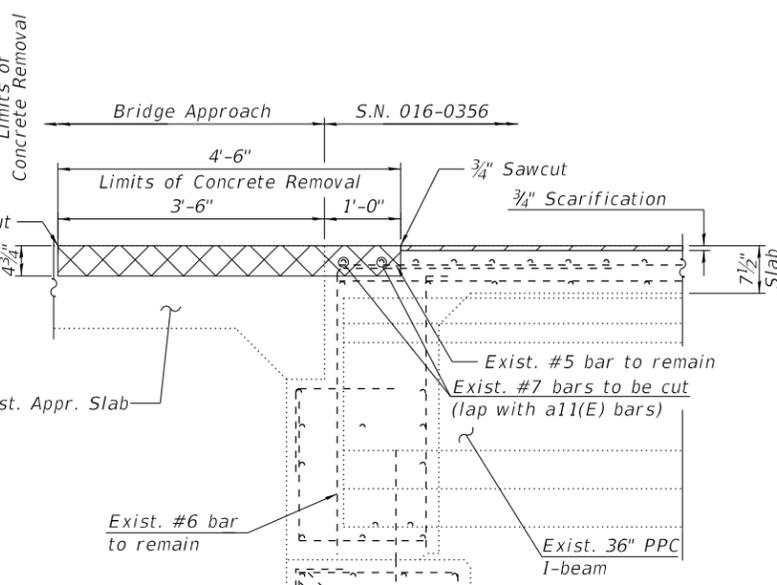
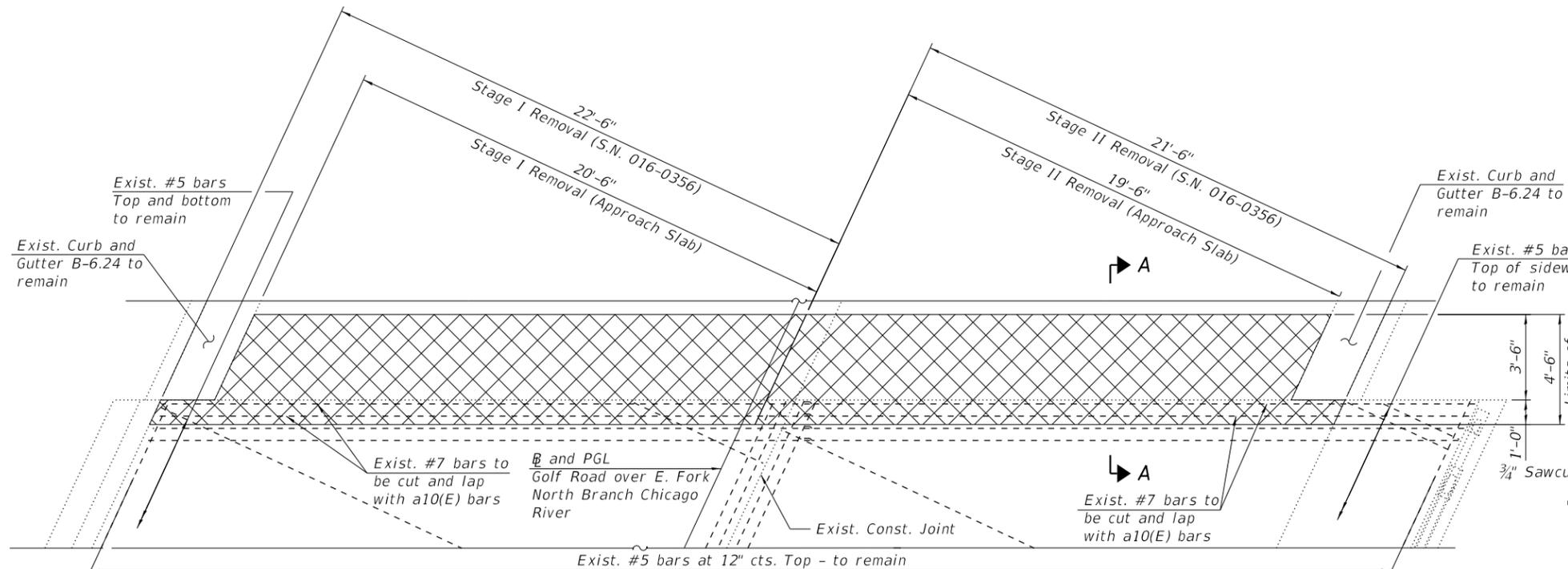
**WEST ABUTMENT JOINT REMOVAL AND RECONSTRUCTION  
STRUCTURE NO. 016-0356**

SHEET S2-07 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	53
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	16	#7	21'-9"	—
a11(E)	4	#7	23'-11"	—
b10(E)	42	#5	3'-8"	—
Concrete Removal			Cu. Yd.	3.0
Concrete Superstructure			Cu. Yd.	3.3
Protective Coat			Sq. Yd.	23
Reinforcement Bars, Epoxy Coated			Pound	1,070



**NOTES:**

1. For bar splicer assembly and mechanical splicer details, see Sheet S2-19.
2. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the 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.
3. The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the existing PPC I-beams and approach concrete curb and gutter, to remain. Any damage to the existing PPC I-beams, and/or approach concrete curb and gutter, caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.

**EAST ABUTMENT JOINT RECONSTRUCTION PLAN**

**SECTION A-A**

**SECTION AA-AA**

**LEGEND**

- Concrete Removal
- Bridge Deck Scarification

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PLOT SCALE =	CHECKED - MAI, RB, MI	REVISED -
PLOT DATE = 12/13/2018	DRAWN - JJS, MAA, EK	REVISED -
	DATE - 11/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

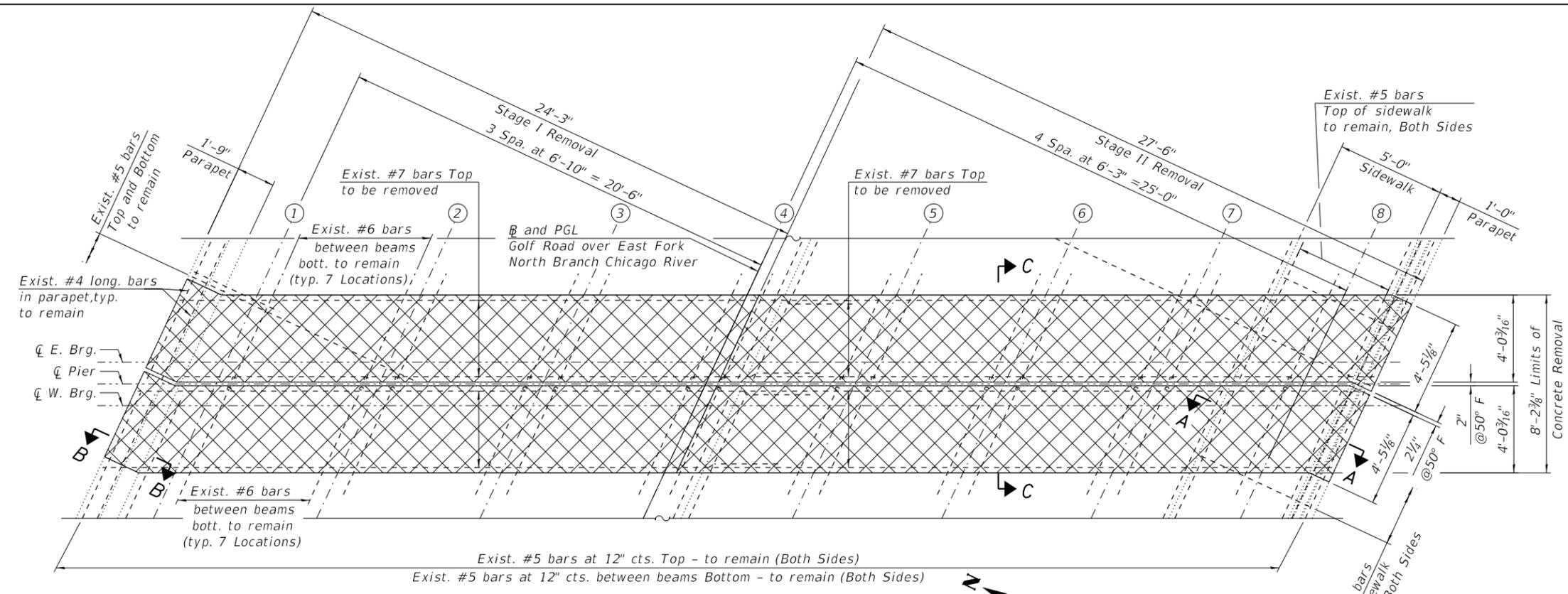
**EAST ABUTMENT JOINT REMOVAL AND RECONSTRUCTION  
STRUCTURE NO. 016-0356**

SHEET S2-08 OF S2-19 SHEETS

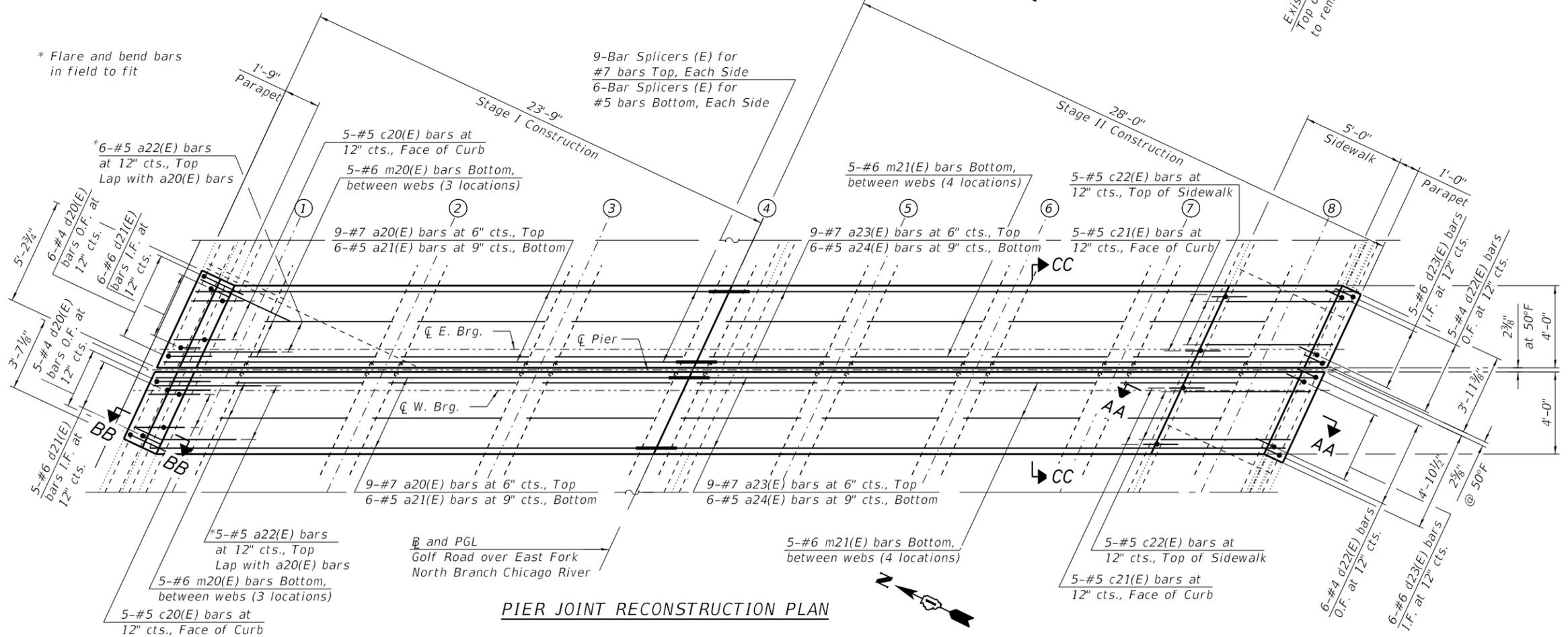
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1312	1977-119-W+RS	COOK	75	54
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. For Sections A-A, B-B, C-C, AA-AA, BB-BB, CC-CC, bar diagrams and Bill of Material, see Sheet S2-10.
2. For preformed joint strip seal details, see Sheets S2-13 thru S2-15.
3. For bar splicer assembly details, see Sheet S2-19.
4. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the 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.
5. The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the existing PPC I-Beams. Any damage to the existing PPC I-Beams caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.



**PIER JOINT REMOVAL PLAN**



**PIER JOINT RECONSTRUCTION PLAN**

**LEGEND**

- Concrete Removal
- I.F. Inside Face
- O.F. Outside Face

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	DATE - 11/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

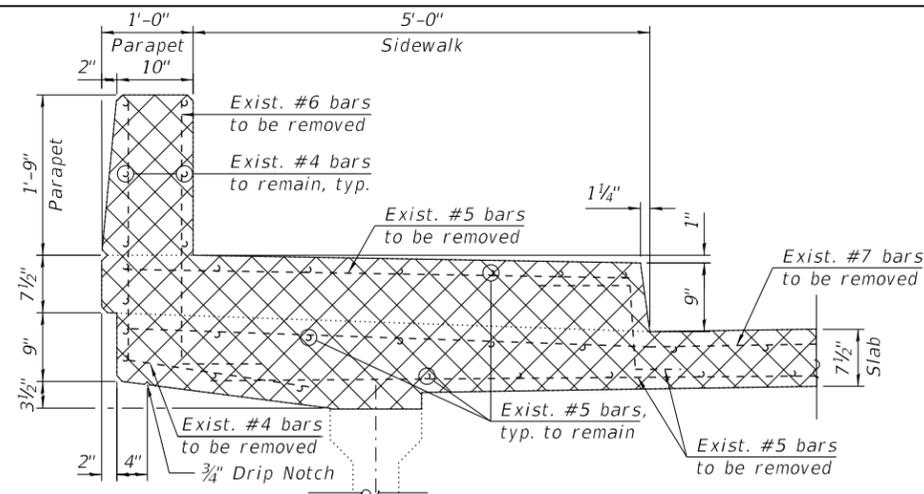
**PIER JOINT REMOVAL AND RECONSTRUCTION  
STRUCTURE NO. 016-0356**

SHEET S2-09 OF S2-19 SHEETS

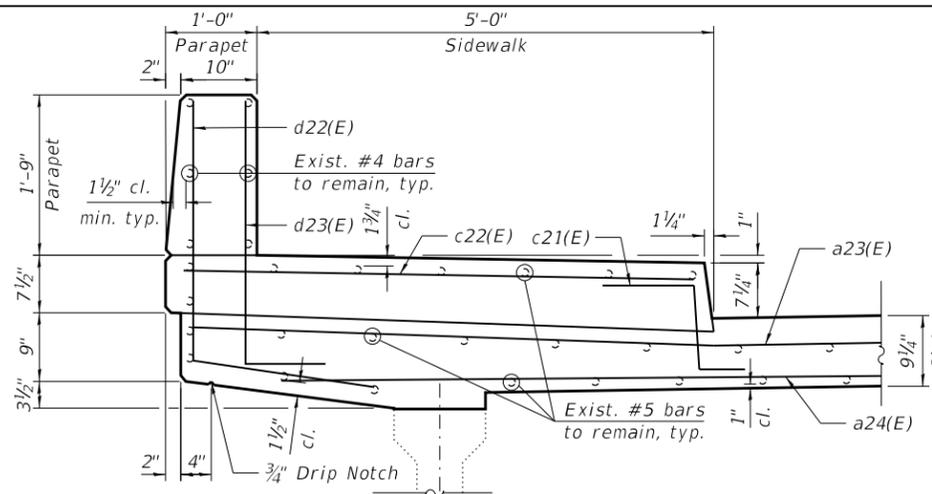
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	55
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

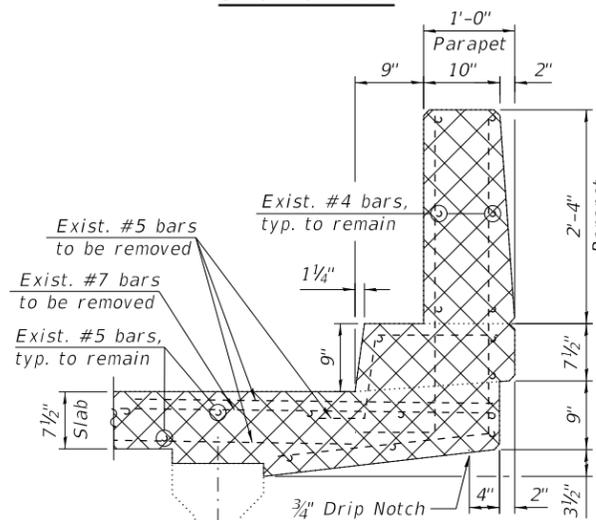
Bar	No.	Size	Length	Shape
a20(E)	18	#7	25'-10"	—
a21(E)	12	#5	25'-10"	—
a22(E)	11	#5	5'-0"	—
a23(E)	18	#7	30'-8"	—
a24(E)	12	#5	30'-8"	—
c20(E)	10	#5	2'-9"	⌒
c21(E)	10	#5	2'-5"	⌒
c22(E)	10	#5	6'-4"	—
d20(E)	11	#4	5'-9"	⌒
d21(E)	11	#6	4'-4"	⌒
d22(E)	11	#4	4'-10"	⌒
d23(E)	11	#6	3'-9"	⌒
m20(E)	30	#6	6'-8"	—
m21(E)	40	#6	6'-0"	—
Concrete Removal		Cu. Yd.	25.8	
Concrete Superstructure		Cu. Yd.	28.2	
Protective Coat		Sq. Yd.	57	
Reinforcement Bars, Epoxy Coated		Pound	3,840	



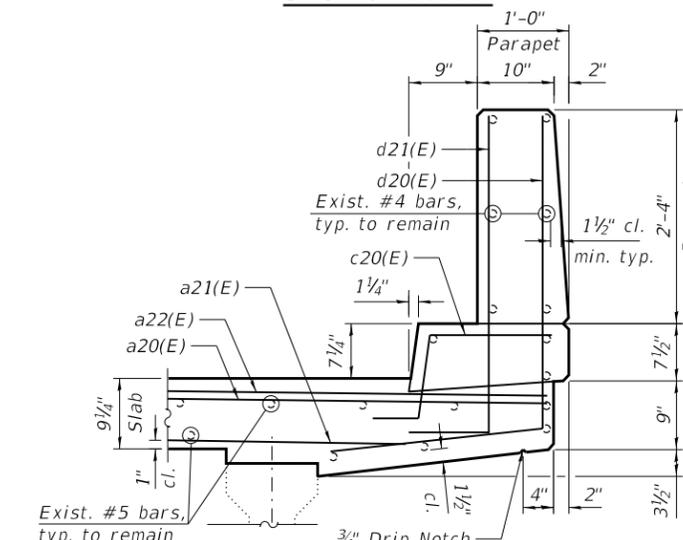
**SECTION A-A**



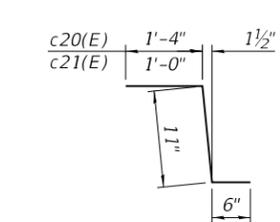
**SECTION AA-AA**



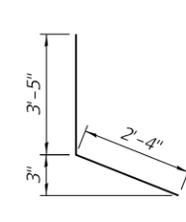
**SECTION B-B**



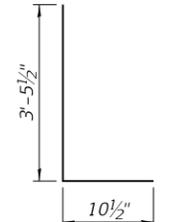
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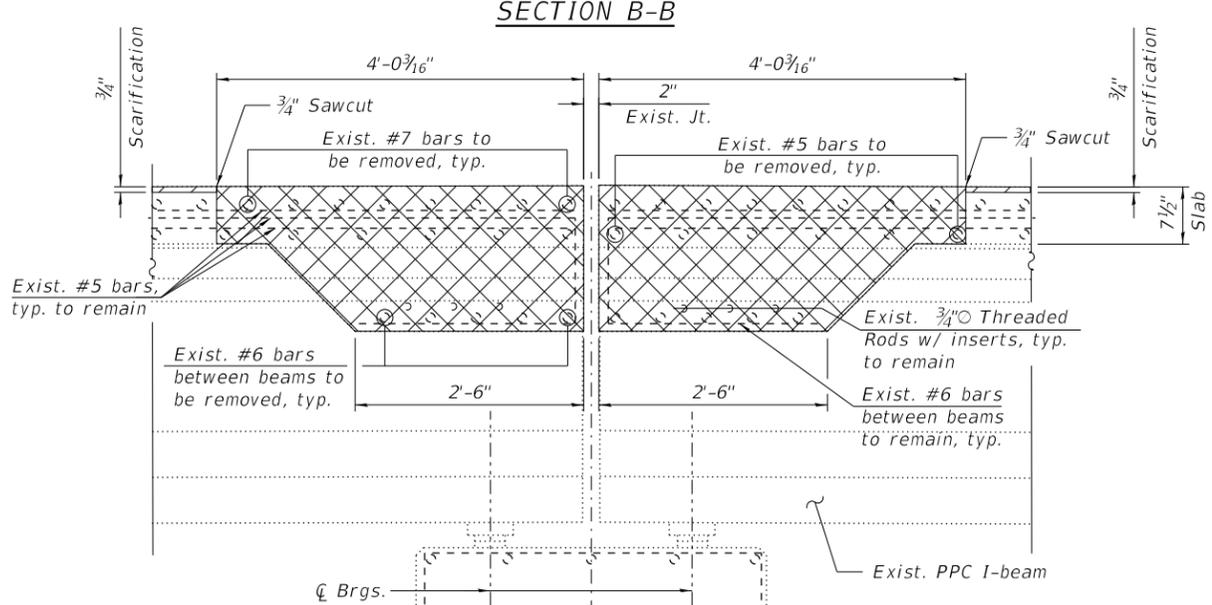
**BARS c20(E) and c21(E)**



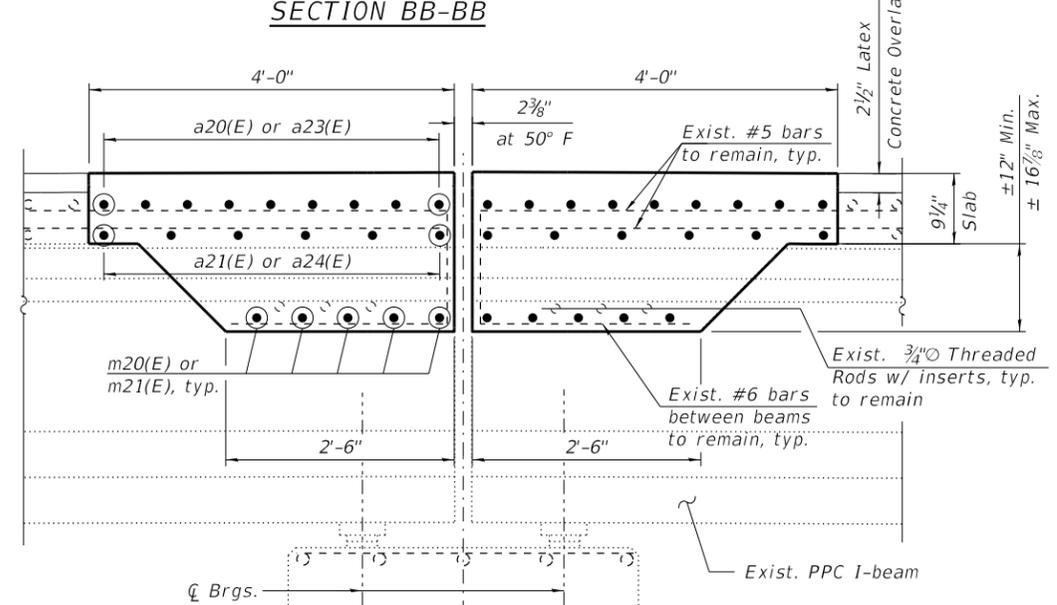
**BAR d20(E)**



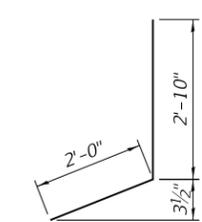
**BAR d21(E)**



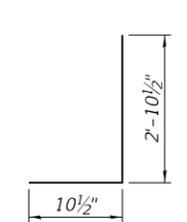
**SECTION C-C**



**SECTION CC-CC**



**BAR d22(E)**



**BAR d23(E)**

**LEGEND**

- Concrete Removal
- Bridge Deck Scarification

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER JOINT DETAILS  
STRUCTURE NO. 016-0356**

SHEET S2-10 OF S2-19 SHEETS

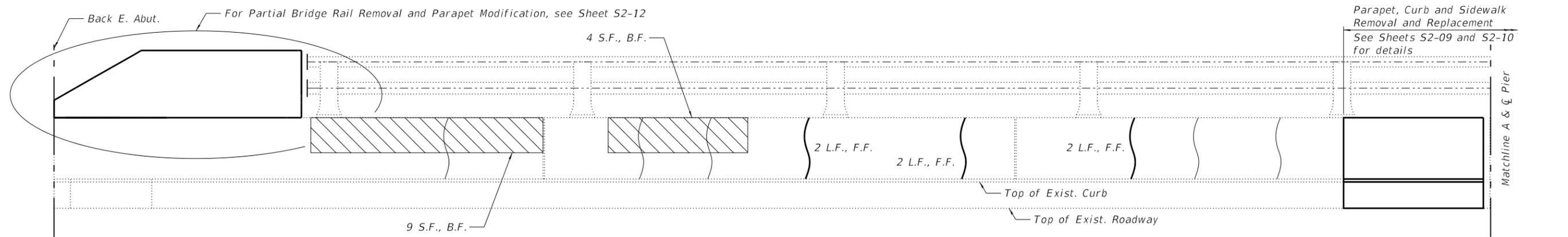
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1312	1977-119-W+RS	COOK	75	56
CONTRACT NO. 60R69				

ILLINOIS FED. AID PROJECT

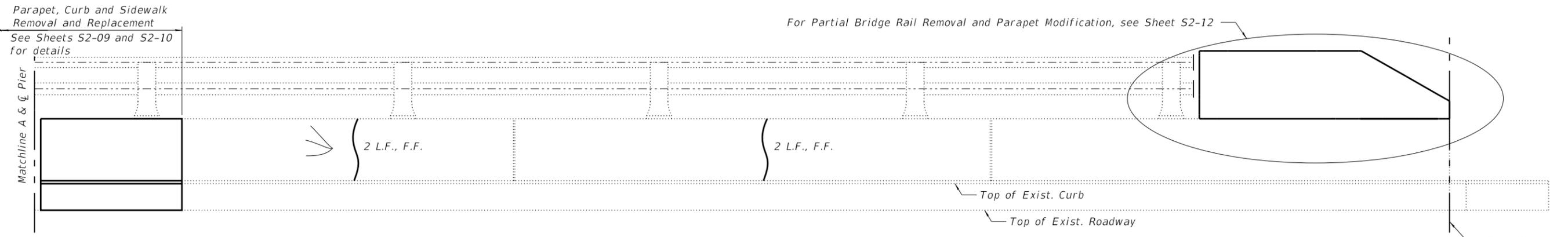
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**HBM**  
ENGINEERING GROUP, LLC

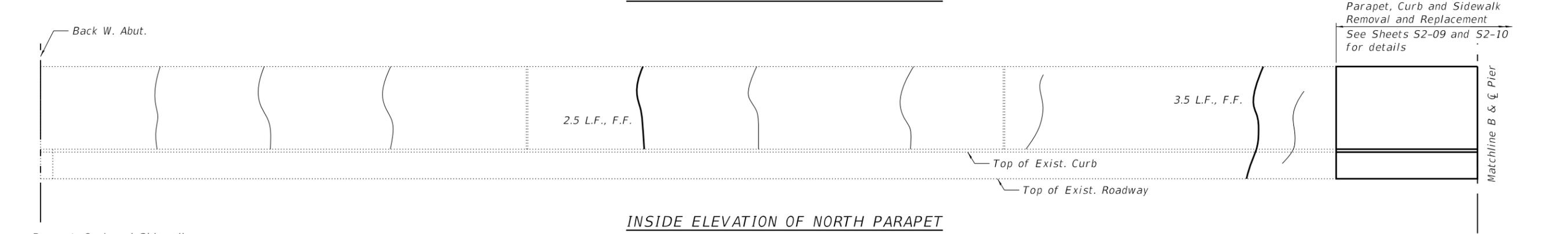
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JJS, MAA	JJS, MAA	
MAL, RB, MI		
JJS, MAA, EK		



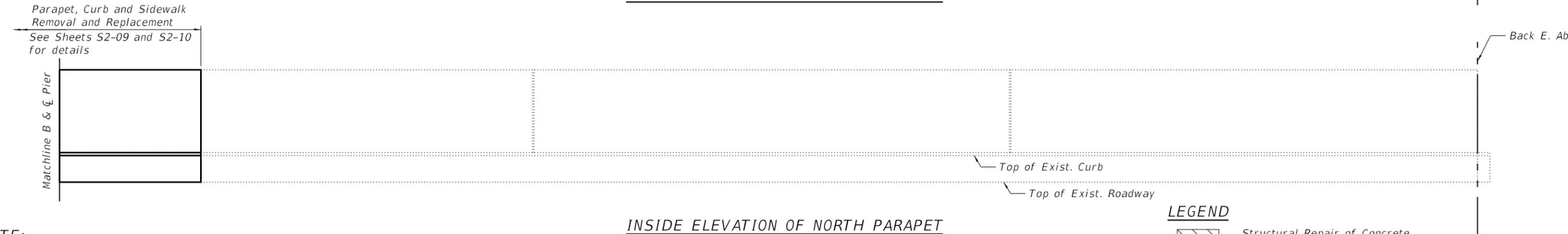
INSIDE ELEVATION OF SOUTH PARAPET



INSIDE ELEVATION OF SOUTH PARAPET



INSIDE ELEVATION OF NORTH PARAPET



INSIDE ELEVATION OF NORTH PARAPET

**LEGEND**

- Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- Epoxy Crack Injection
- Hairline Cracks
- S.F. Square Foot
- L.F. Linear Foot
- F.F. Front Face
- B.F. Back Face

**NOTE:**  
1. For Bill of Material, see Sheet S2-12.

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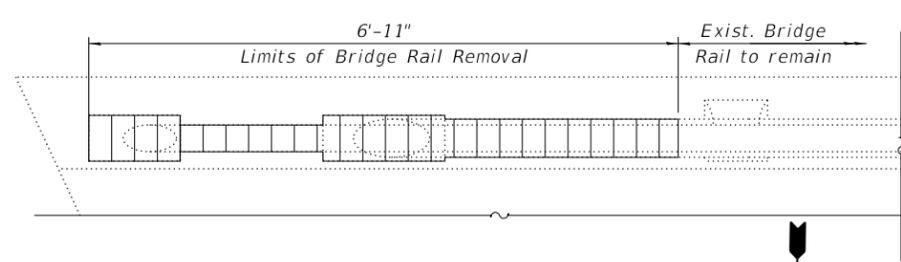
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

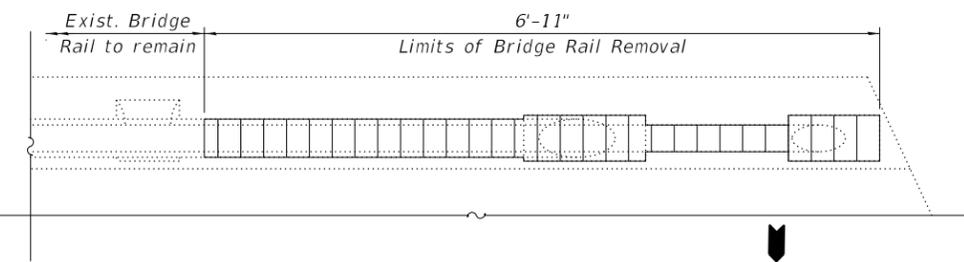
**PARAPET ELEVATION AND RETROFIT DETAILS (SHEET 1 OF 2)  
STRUCTURE NO. 016-0356**

SHEET S2-11 OF S2-19 SHEETS

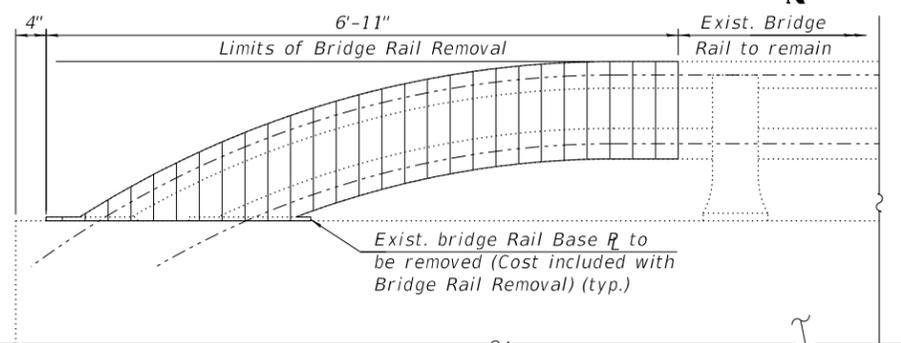
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	57
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R69	



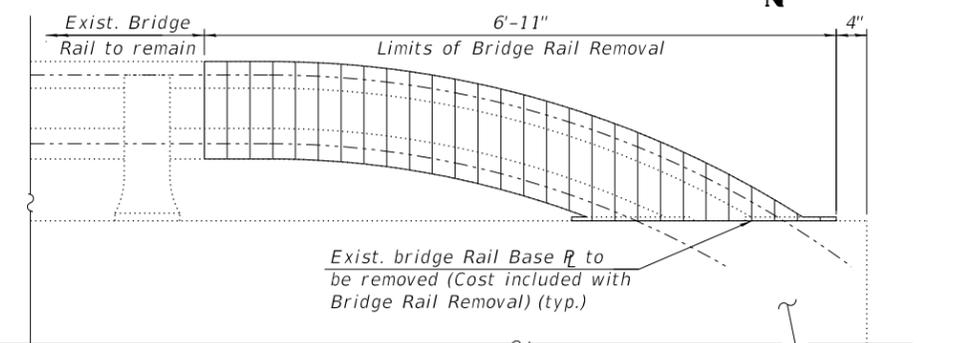
**PARTIAL BRIDGE RAIL REMOVAL PLAN**  
(At Southeast Corner)



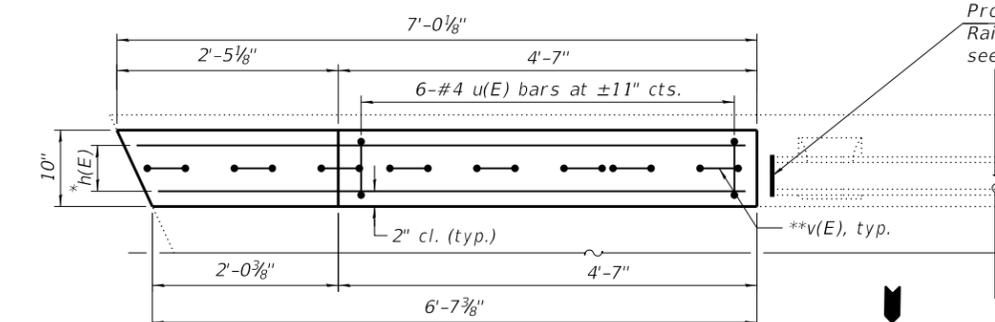
**PARTIAL BRIDGE RAIL REMOVAL PLAN**  
(At Southwest Corner)



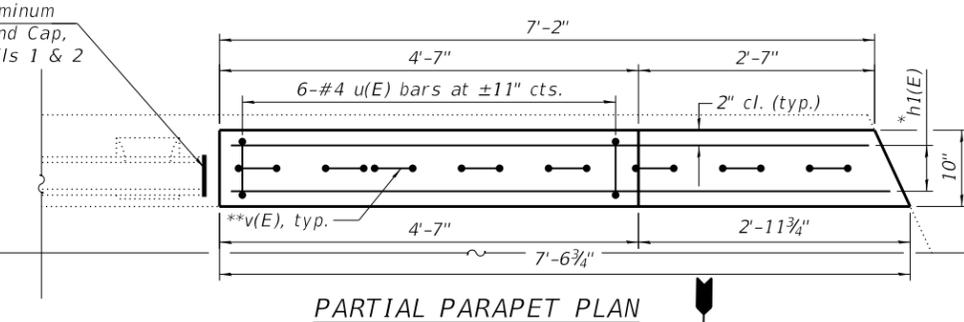
**PARTIAL BRIDGE RAIL REMOVAL ELEVATION**  
(At Southeast Corner)



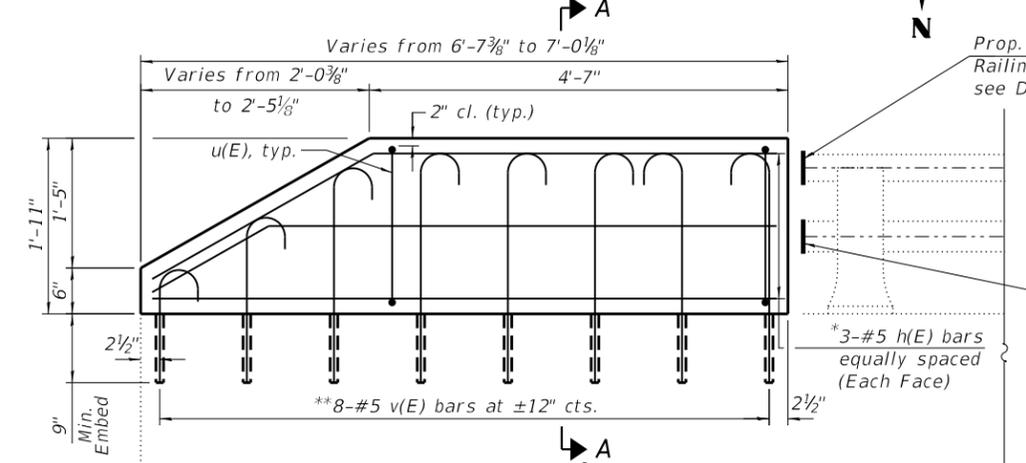
**PARTIAL BRIDGE RAIL REMOVAL ELEVATION**  
(At Southwest Corner)



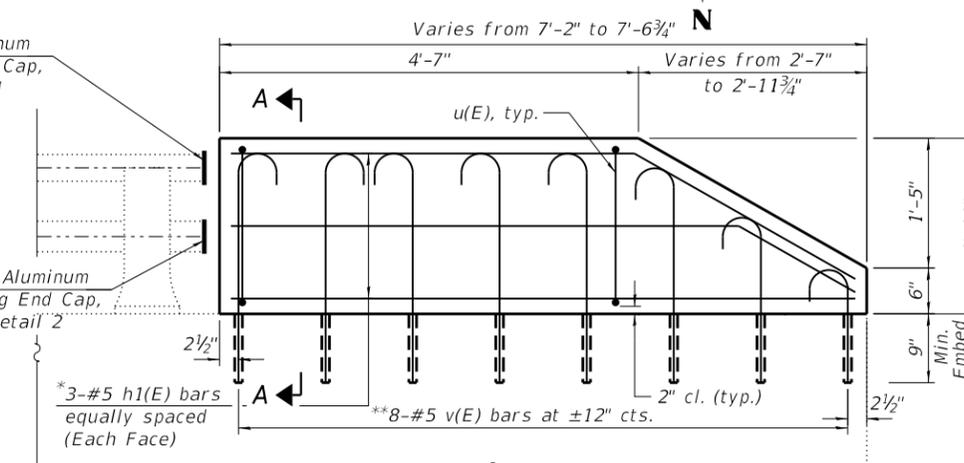
**PARTIAL PARAPET PLAN**  
(At Southeast Corner)



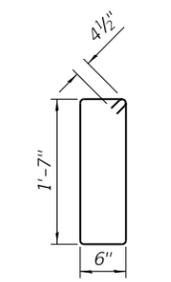
**PARTIAL PARAPET PLAN**  
(At Southwest Corner)



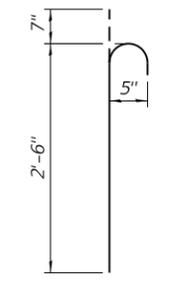
**PARTIAL PARAPET ELEVATION**  
(At Southeast Corner)



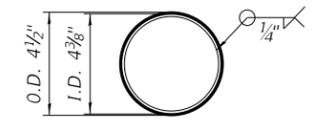
**PARTIAL PARAPET ELEVATION**  
(At Southwest Corner)



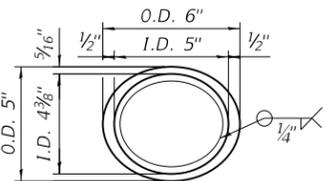
**BAR u(E)**



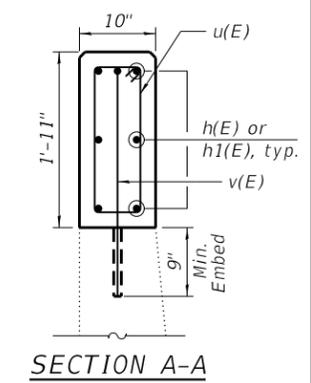
**BAR v(E)**



**DETAIL 1**  
(Showing Top Aluminum Railing End Cap)



**DETAIL 2**  
(Showing Bottom Aluminum Railing End Cap)



**SECTION A-A**

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
h(E)	6	#5	6'-8"	—
h1(E)	6	#5	7'-2"	—
u(E)	12	#4	4'-11"	□
v(E)	16	#5	3'-1"	—
Protective Coat		Sq. Yd.	4	
Reinforcement Bars, Epoxy Coated		Pound	180	
Concrete Superstructure		Cu. Yd.	0.8	
Bridge Rail Removal		Foot	14	
Epoxy Crack Injection		Foot	16	
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)		Sq. Ft.	13	

- NOTES:**
1. Cost of Proposed Aluminum Railing End Cap fabrication and installation shall be included with Bridge Rail Removal.
  2. Protective coat shall be applied to the top and inside faces of the reconstructed portion of the parapets.
  3. The v(E) bars are to be drilled and epoxy grouted in accordance with Section 584 of the Standard Specifications. Drill to miss existing reinforcement (Cost Included with Reinforcement Bars, Epoxy Coated.)

**LEGEND**

	Bridge Rail Removal
--	---------------------

\* Cut and bend in field to fit  
\*\* Cut in field to fit

MODEL: Default  
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	DATE - 11/30/2018	REVISED -

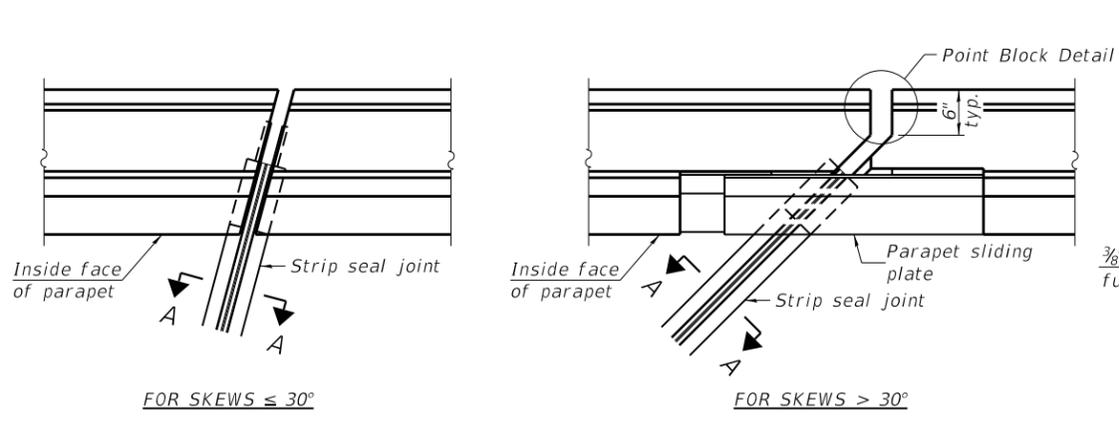
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PARAPET ELEVATION AND RETROFIT DETAILS (SHEET 2 OF 2)  
STRUCTURE NO. 016-0356

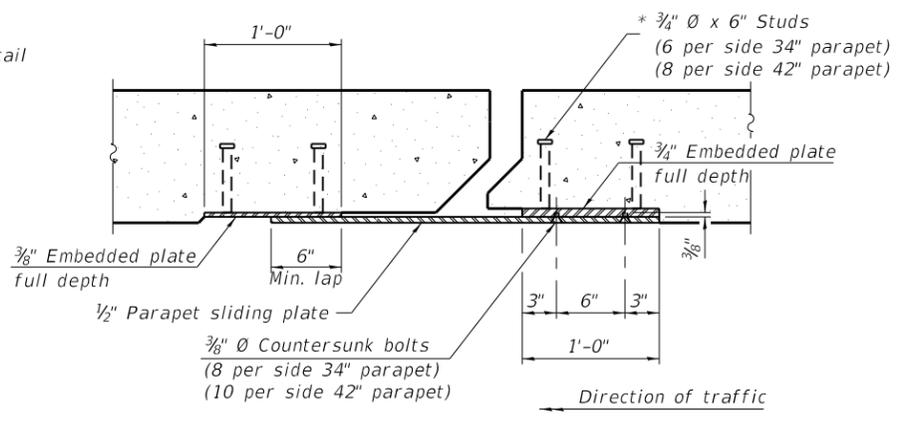
SHEET S2-12 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	58
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

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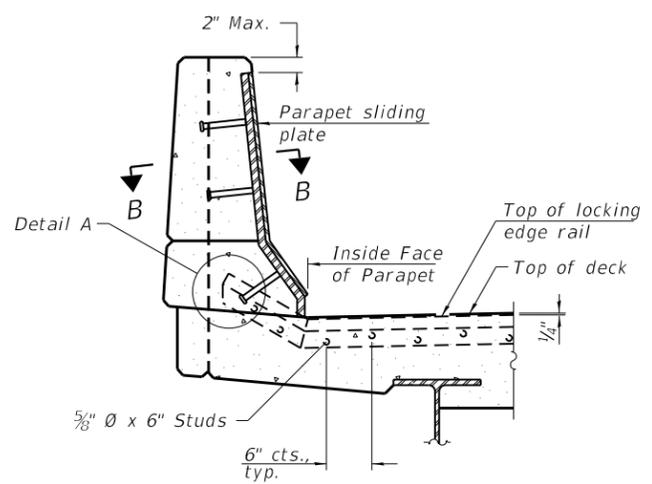


PLAN AT PARAPET



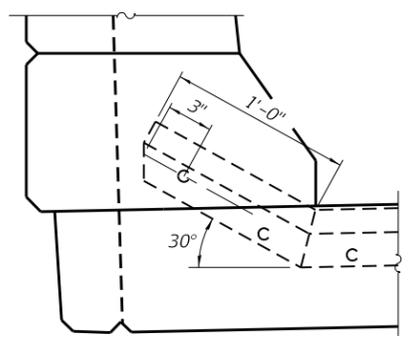
SECTION B-B

Notes:  
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.  
 The manufacturer's recommended installation methods shall be followed.  
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.  
 The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.  
 Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.  
 34" F-shape barrier shown, 42" F-shape similar as noted.  
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

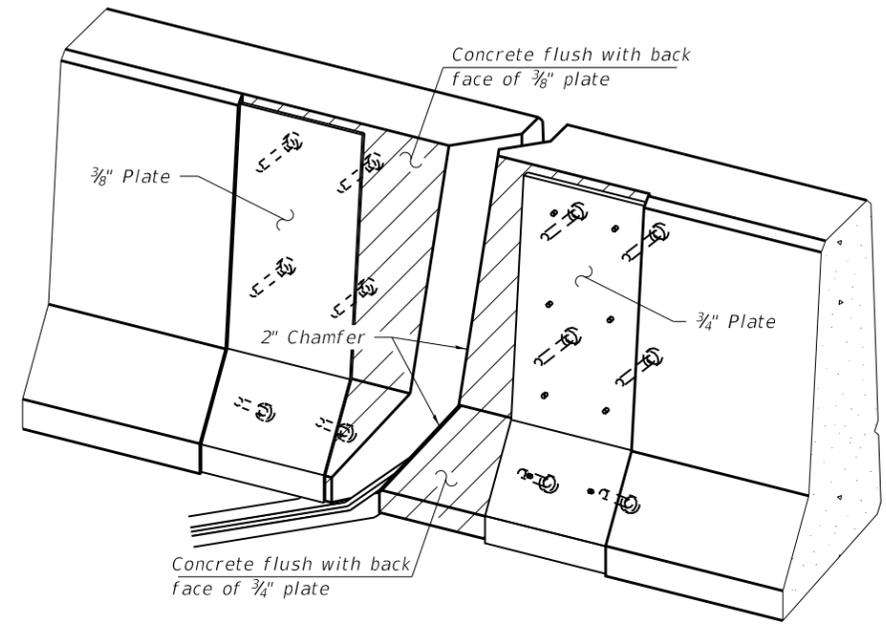


ELEVATION AT PARAPET

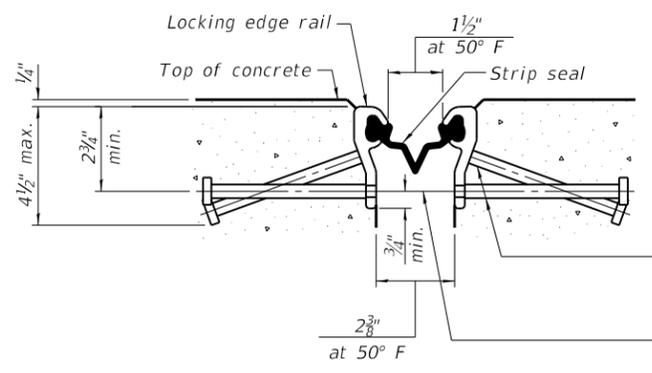
(Skews > 30° shown. Skews <= 30° similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW  
 (Showing embedded plates only)



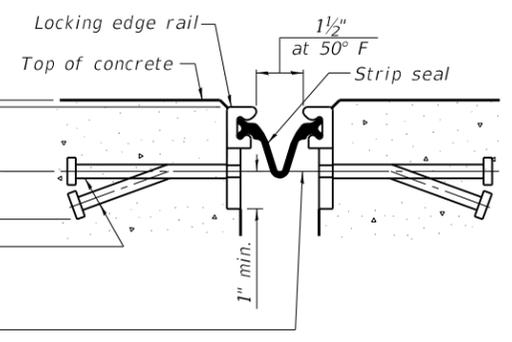
SHOWING ROLLED RAIL JOINT

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

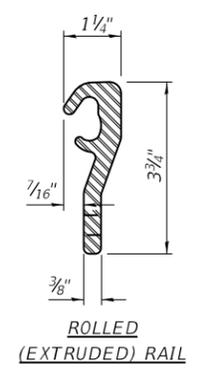
3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

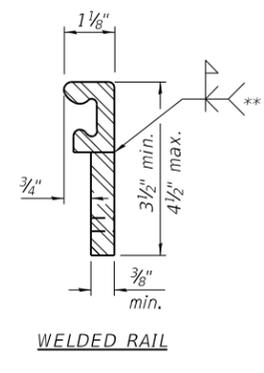
\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



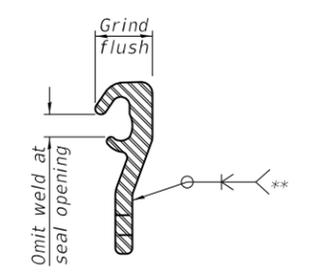
ROLLED (EXTRUDED) RAIL



WELDED RAIL

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	57

EJ-SS-S

8-11-17



USER NAME =	DESIGNED - JJS, MAA	REVISED -
PLOT SCALE =	CHECKED - MAI, RB, MI	REVISED -
PLOT DATE = 12/11/2018	DRAWN - JJS, MAA, EK	REVISED -
	DATE - 11/30/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

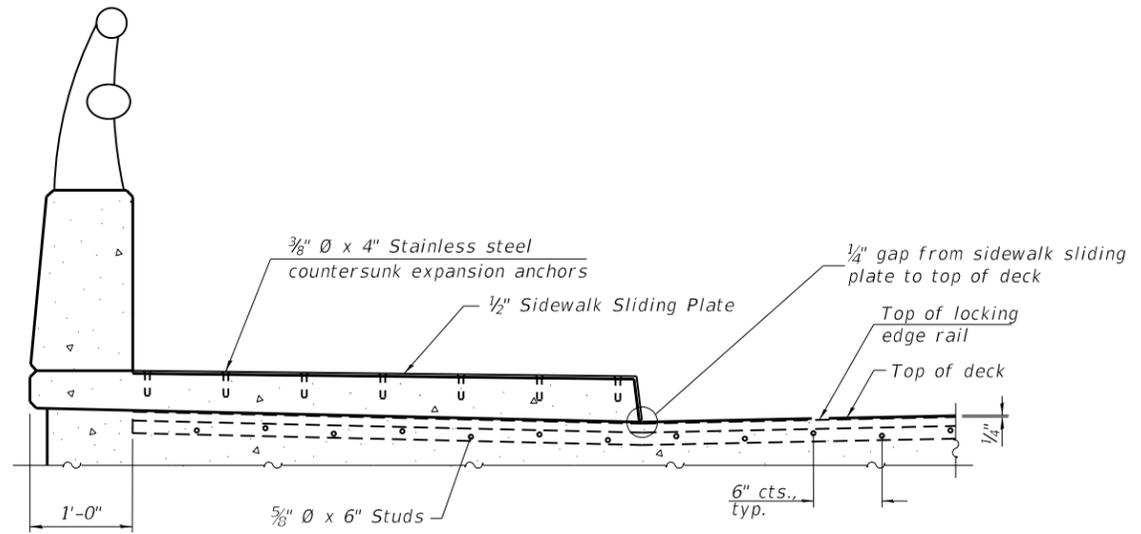
PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 1 OF 3)  
 STRUCTURE NO. 016-0356

(Sheet 1 of 3)

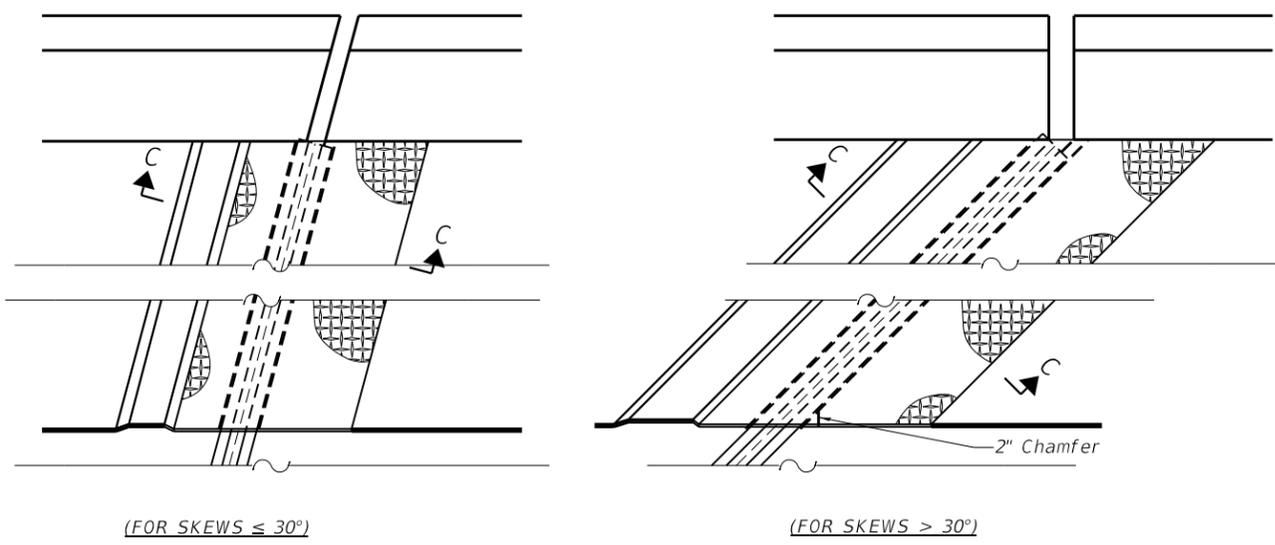
SHEET S2-13 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	59
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

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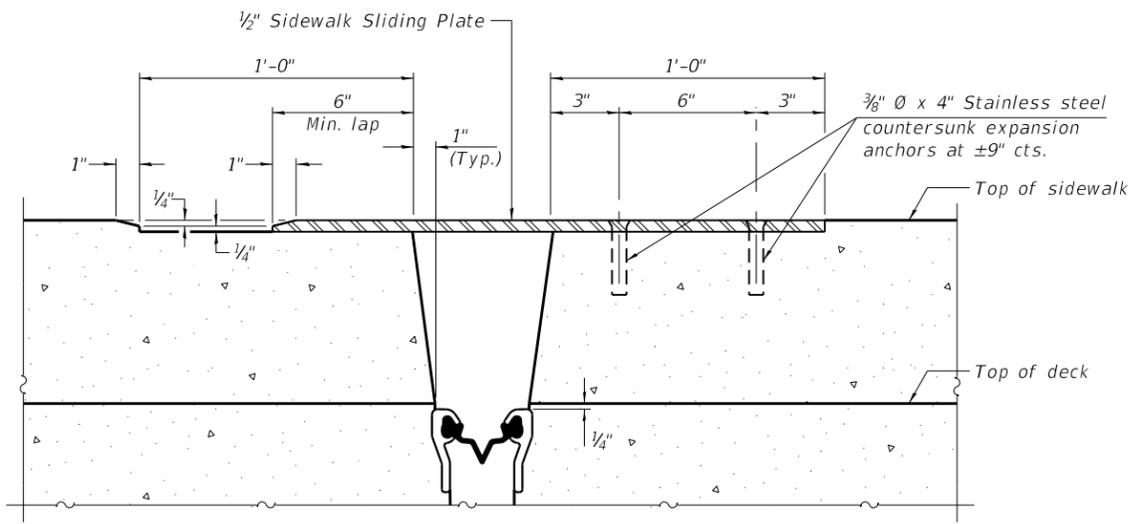
**ELEVATION AT RAISED SIDEWALK**



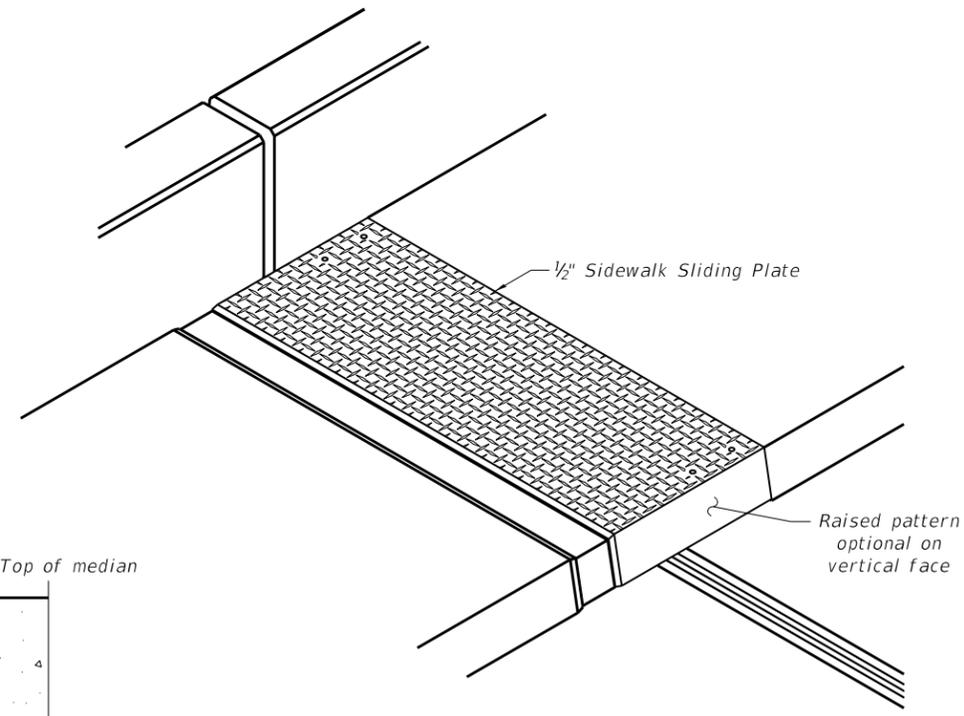
(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

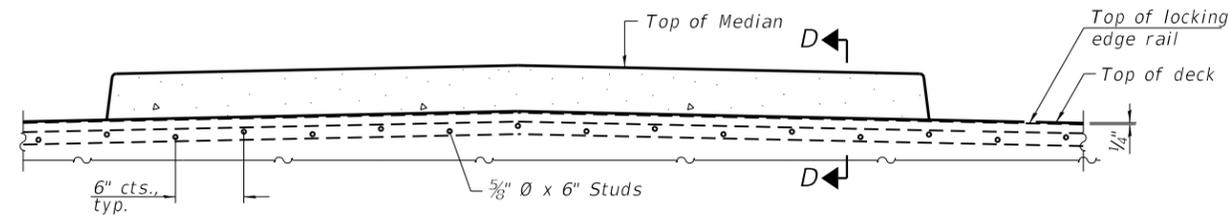
**PLAN AT RAISED SIDEWALK**



**SECTION C-C**

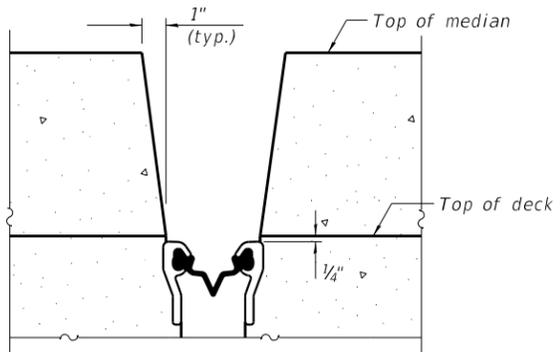


**TRIMETRIC VIEW**



**ELEVATION AT MEDIAN**

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



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

(Sheet 2 of 3)

EJ-SS-S

8-11-17



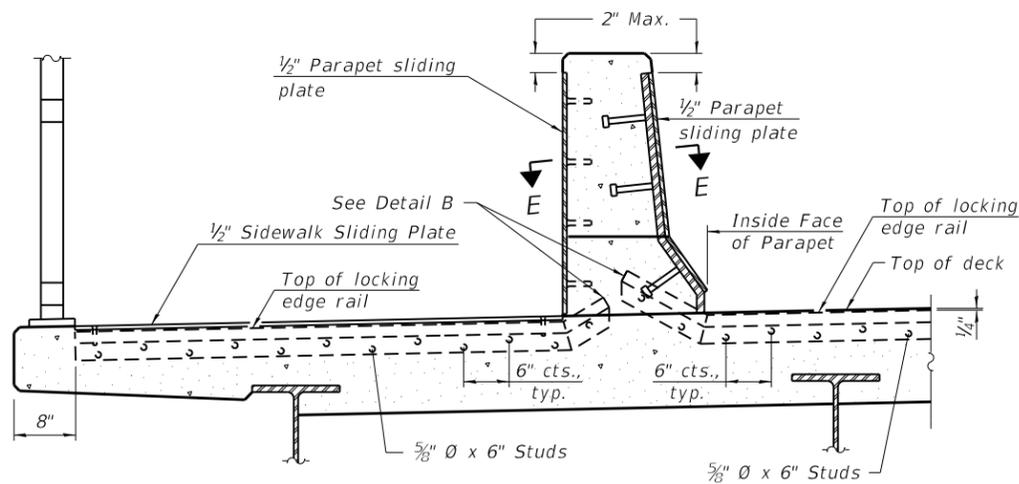
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PLOT SCALE =	CHECKED - MAI, RB, MI	REVISED -
PLOT DATE = 12/11/2018	DRAWN - JJS, MAA, EK	REVISED -
	DATE - 11/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

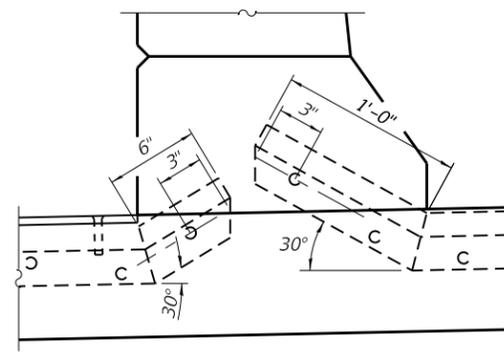
**PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 2 OF 3)  
STRUCTURE NO. 016-0356**

SHEET S2-14 OF S2-19 SHEETS

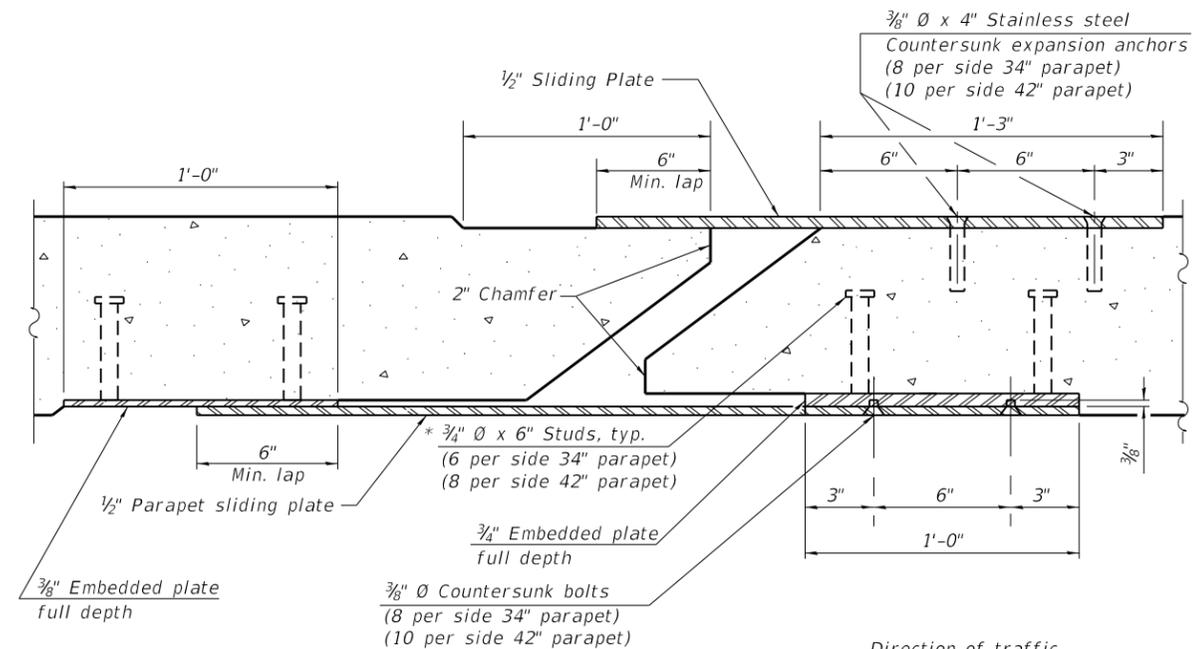
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	60
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				



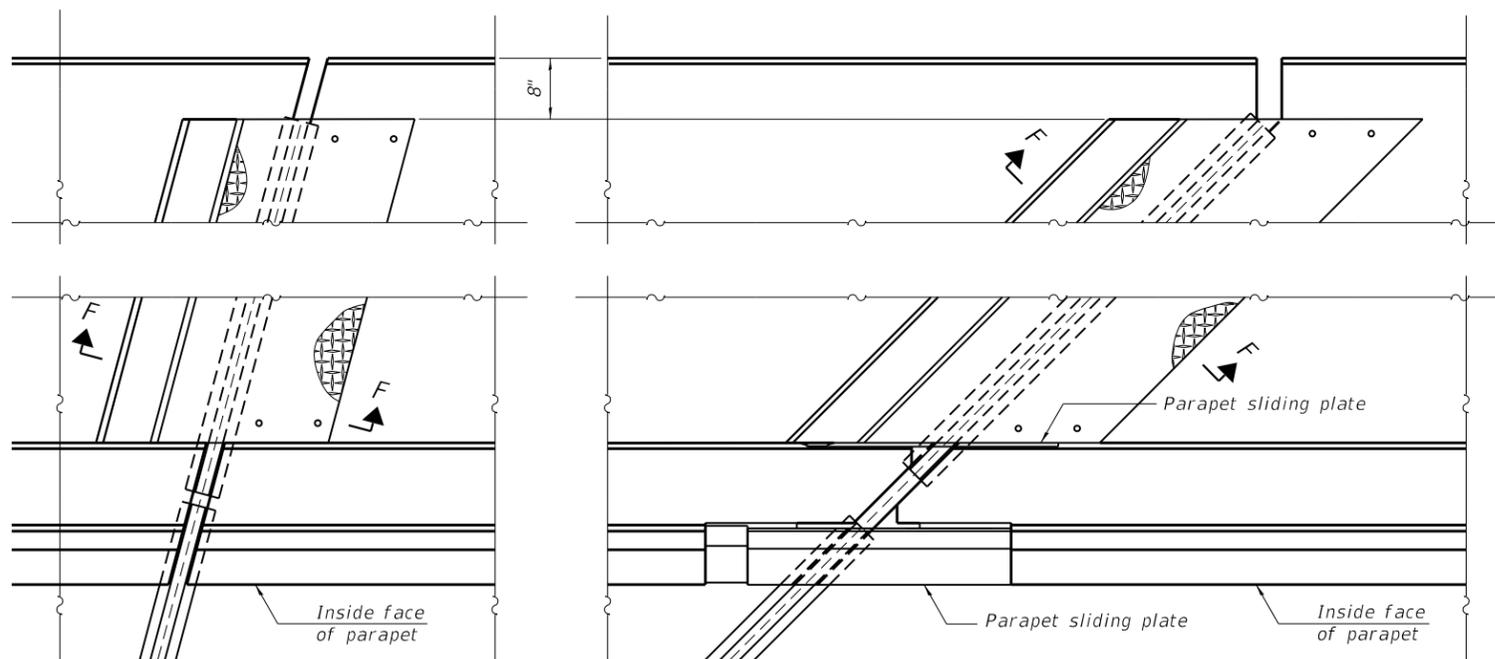
**ELEVATION AT DECK LEVEL SIDEWALK**  
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL B**



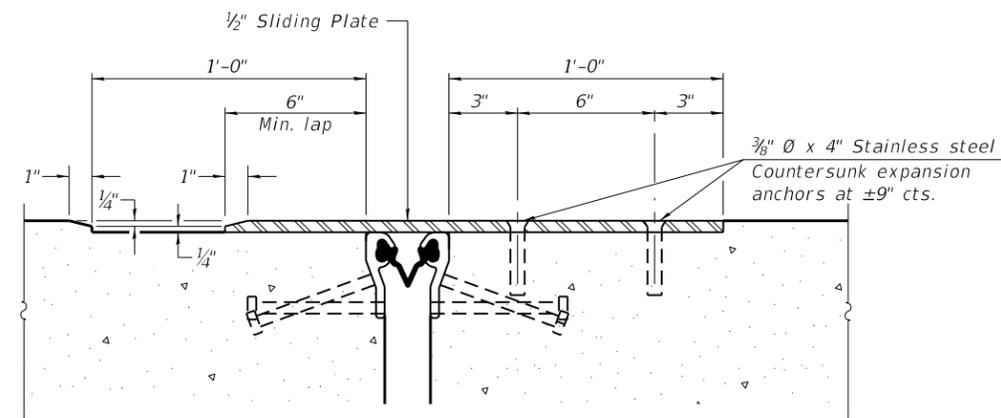
**SECTION E-E**



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

(Sheet 3 of 3)

EJ-SS-S

8-11-17

**HBM**  
 ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - JJS, MAA	REVISED -
PLOT SCALE =	CHECKED - MAI, RB, MI	REVISED -
PLOT DATE = 12/11/2018	DRAWN - JJS, MAA, EK	REVISED -
	DATE - 11/30/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

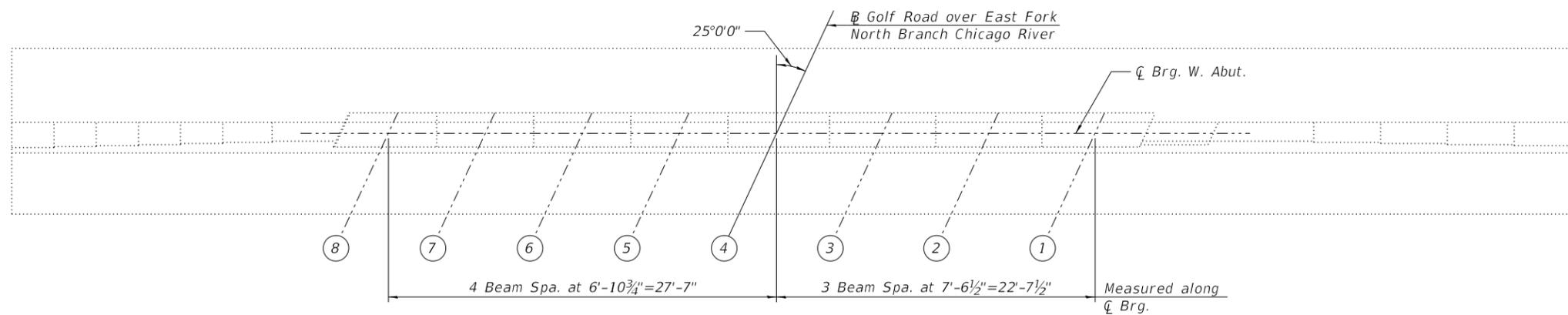
PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 3 OF 3)  
 STRUCTURE NO. 016-0356

SHEET S2-15 OF S2-19 SHEETS

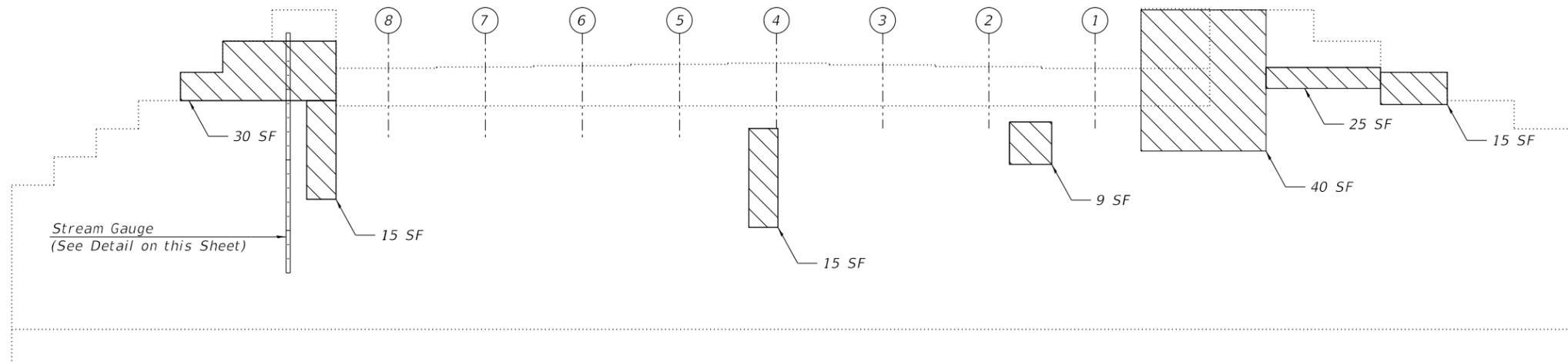
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	61
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

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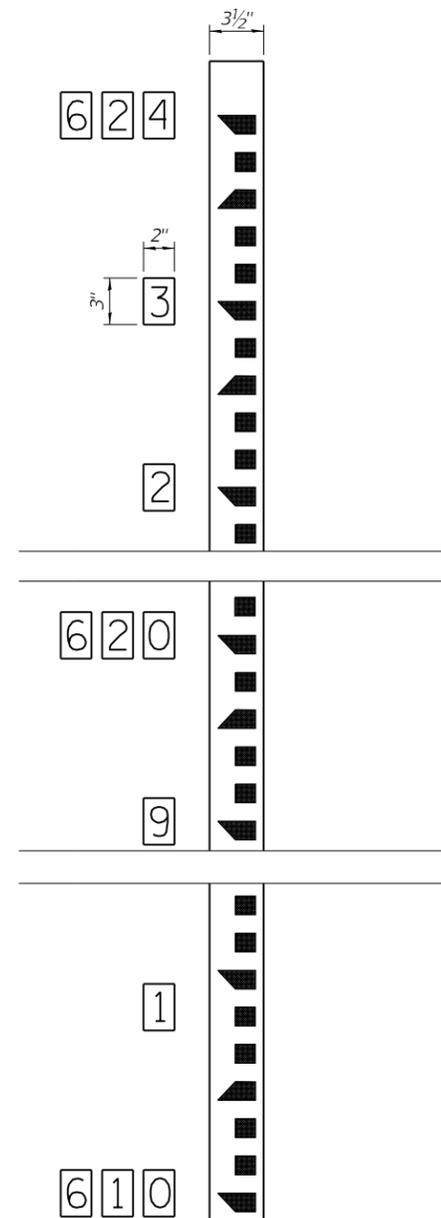
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PLAN - WEST ABUTMENT



ELEVATION - WEST ABUTMENT  
 (Looking West)



STREAM GAUGE DETAIL

**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- The Contractor shall be responsible to remove, support and reinstall all existing utilities interfering with the work. Cost included with Structural Repair of Concrete (Depth Equal to or Less Than 5").

**STREAM GAUGE NOTES:**

- All plates shall be fastened to the Pier with 1/4" x 1 1/4" long masonry screws with a hex washer head at every hole on every plate.
- The Contractor must determine exact elevation of the Gauge Plates, in the field, and install Gauge Plates within a tolerance of 1/4".
- Gauge Plates shall be 3 1/2" wide porcelain enameled Iron plates with black graduated markings in feet and tenths, unnumbered.
- Number Plates shall be 2"x3" white porcelain enameled iron plates with black numbers.
- Gauge plates shall be WaterMark Style "E" or approved equivalent.
- Number plates shall be "WaterMark" Style "E" or approved equivalent.
- Three digit elevations to be installed at the top of the gauge and at every elevation ending with 0. At all of the other whole elevations, place the last digit as shown in the example to the right.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	149
Stream Gauge	Each	1

**LEGEND**

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



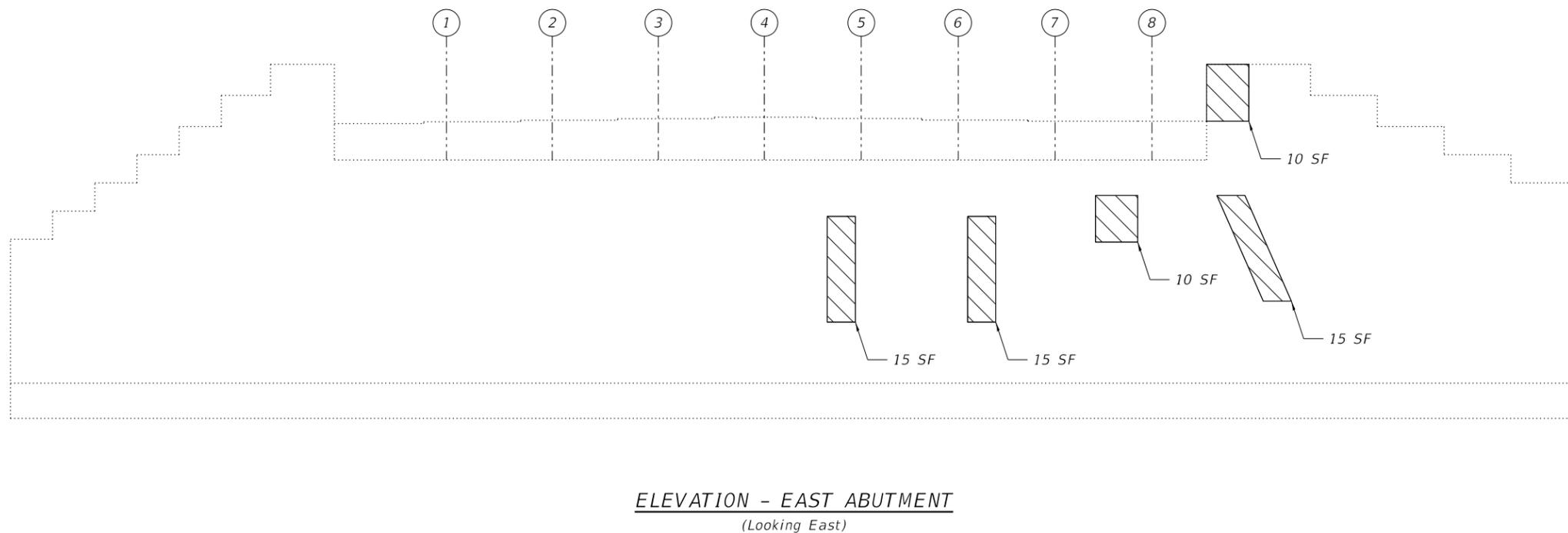
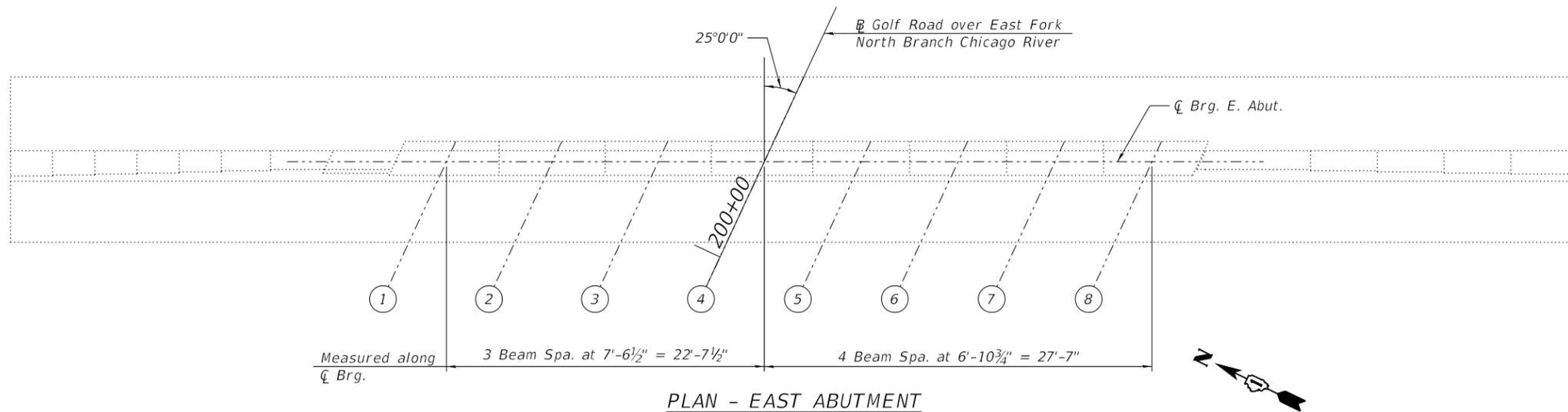
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PLOT DATE = 12/11/2018	DATE - 11/30/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT REPAIRS  
 STRUCTURE NO. 016-0356

SHEET S2-16 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	62
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				



**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- The Contractor shall be responsible to remove, support and reinstall all existing utilities interfering with the work. Cost included with Structural Repair of Concrete (Depth Equal to or Less than 5").

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	65

**LEGEND**

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

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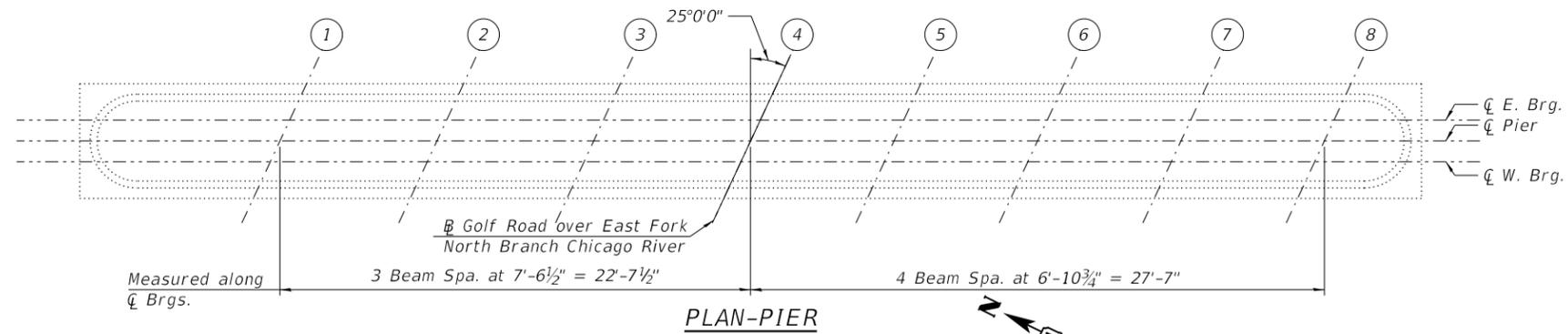
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	CHECKED - MAI, RB, MI	REVISED -
PLOT SCALE =	DRAWN - JJS, MAA, EK	REVISED -
PLOT DATE = 12/11/2018	DATE - 11/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

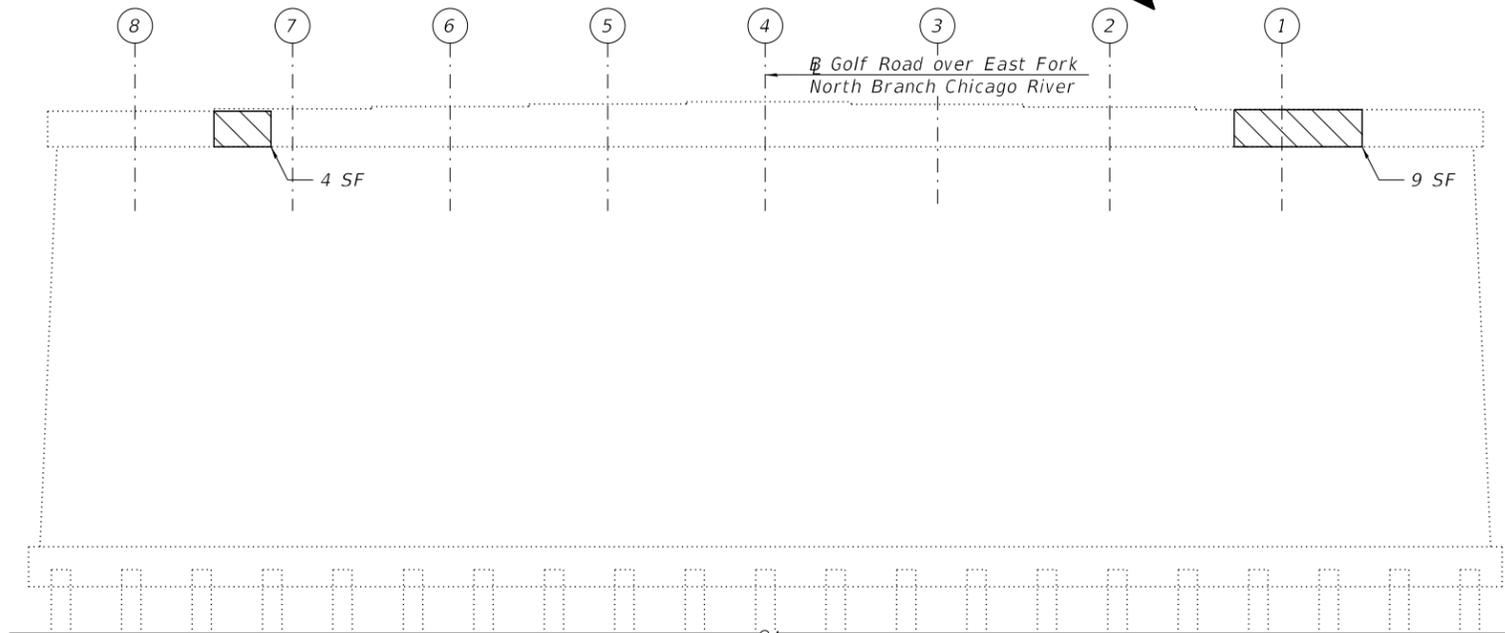
**EAST ABUTMENT REPAIRS  
STRUCTURE NO. 016-0356**

SHEET S2-17 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	63
CONTRACT NO. 60R69				
		ILLINOIS	FED. AID PROJECT	

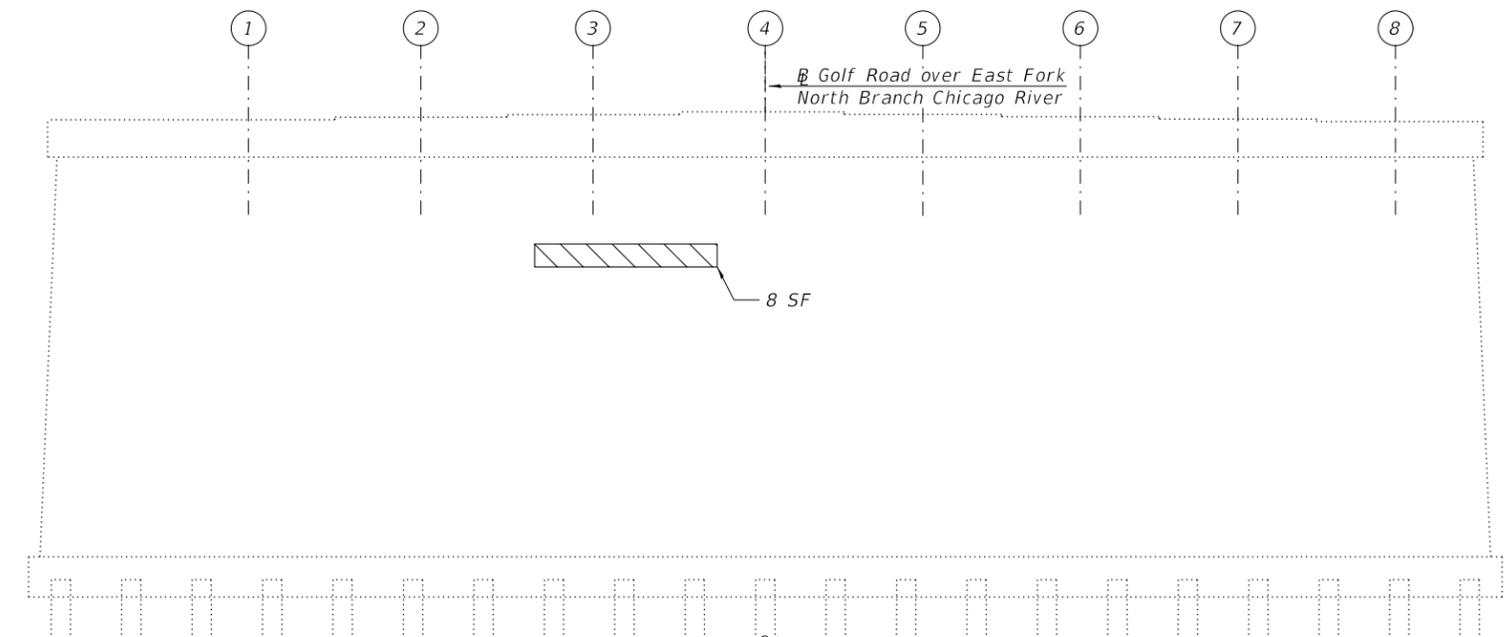


**PLAN-PIER**



**ELEVATION-PIER**

(Looking West)



**ELEVATION-PIER**

(Looking East)

**BILL OF MATERIAL**

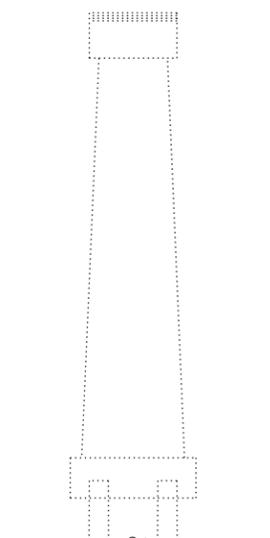
ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	21

**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- The Contractor shall be responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less than 5 inches).

**SOUTH ELEVATION**

(Looking North)



**NORTH ELEVATION**

(Looking South)

**LEGEND**

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

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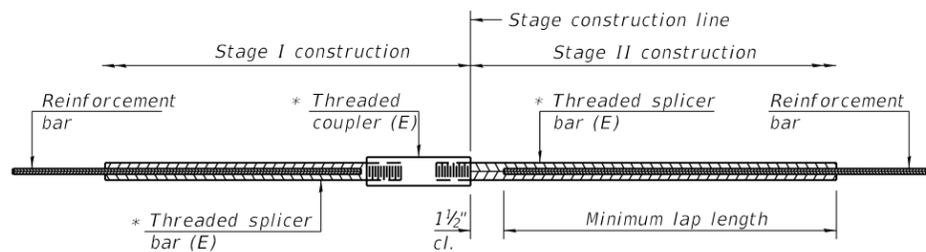
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	DATE - 11/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER REPAIRS  
STRUCTURE NO. 016-0356**

SHEET S2-18 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	64
			CONTRACT NO. 60R69	
		ILLINOIS FED. AID PROJECT		

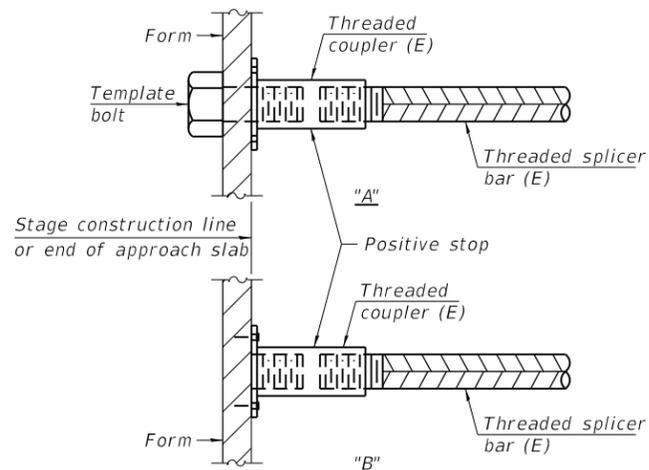


**STANDARD BAR SPLICER ASSEMBLY**

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

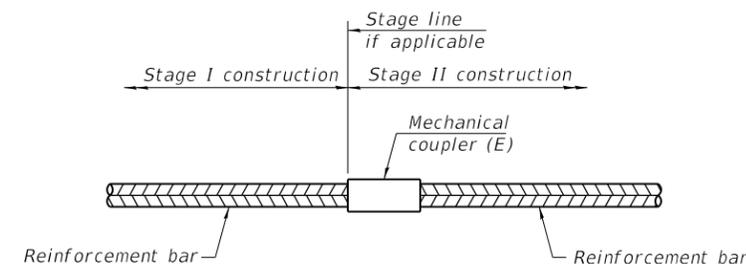
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
E. Abut.	#7	10	5'-2"
W. Abut.	#7	10	5'-2"
Pier	#7	18	5'-2"
	#5	12	3'-6"



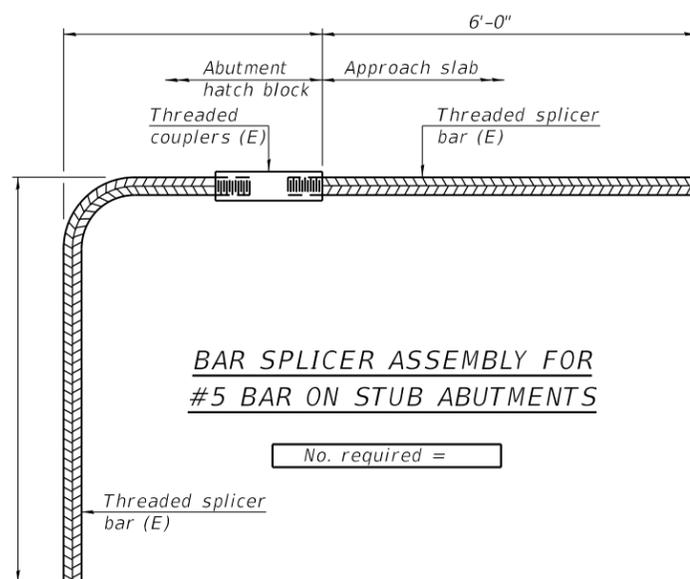
**INSTALLATION AND SETTING METHODS**

"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
W. Abut.	#5	42
E. Abut.	#5	42



**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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

2-17-2017



USER NAME =	DESIGNED - JJS, MAA	REVISED -
	CHECKED - MAI, RB, MI	REVISED -
PLOT SCALE =	DRAWN - JJS, MAA, EK	REVISED -
PLOT DATE = 12/11/2018	DATE - 11/30/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 016-0356

SHEET S2-19 OF S2-19 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	65
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

S.P.	PAY ITEM NUMBER	ITEM	UNIT	QUANTITY
	59000200	Epoxy Crack Injection	FOOT	54
*	Z0012754	Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	SQ FT	64
*	Z0012755	Structural Repair of Concrete (Depth Greater Than 5 Inches)	SQ FT	14

\* Pay Item Covered By Special Provision

**SCOPE OF WORK:**

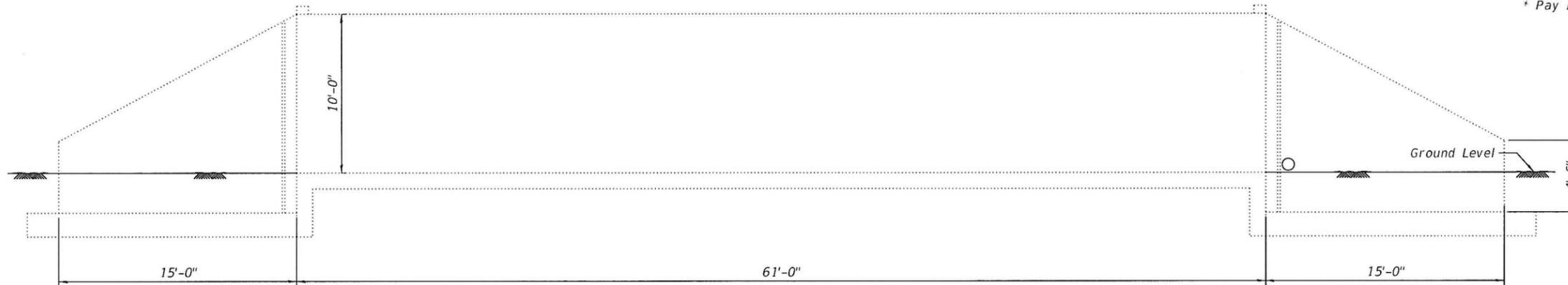
1. Perform Structural Repair of Concrete as Noted on the Plans.
2. Perform Low Pressure Epoxy Injection to open cracks ( $\frac{1}{16}$ " wide or wider) on the walls

**INDEX OF SHEETS**

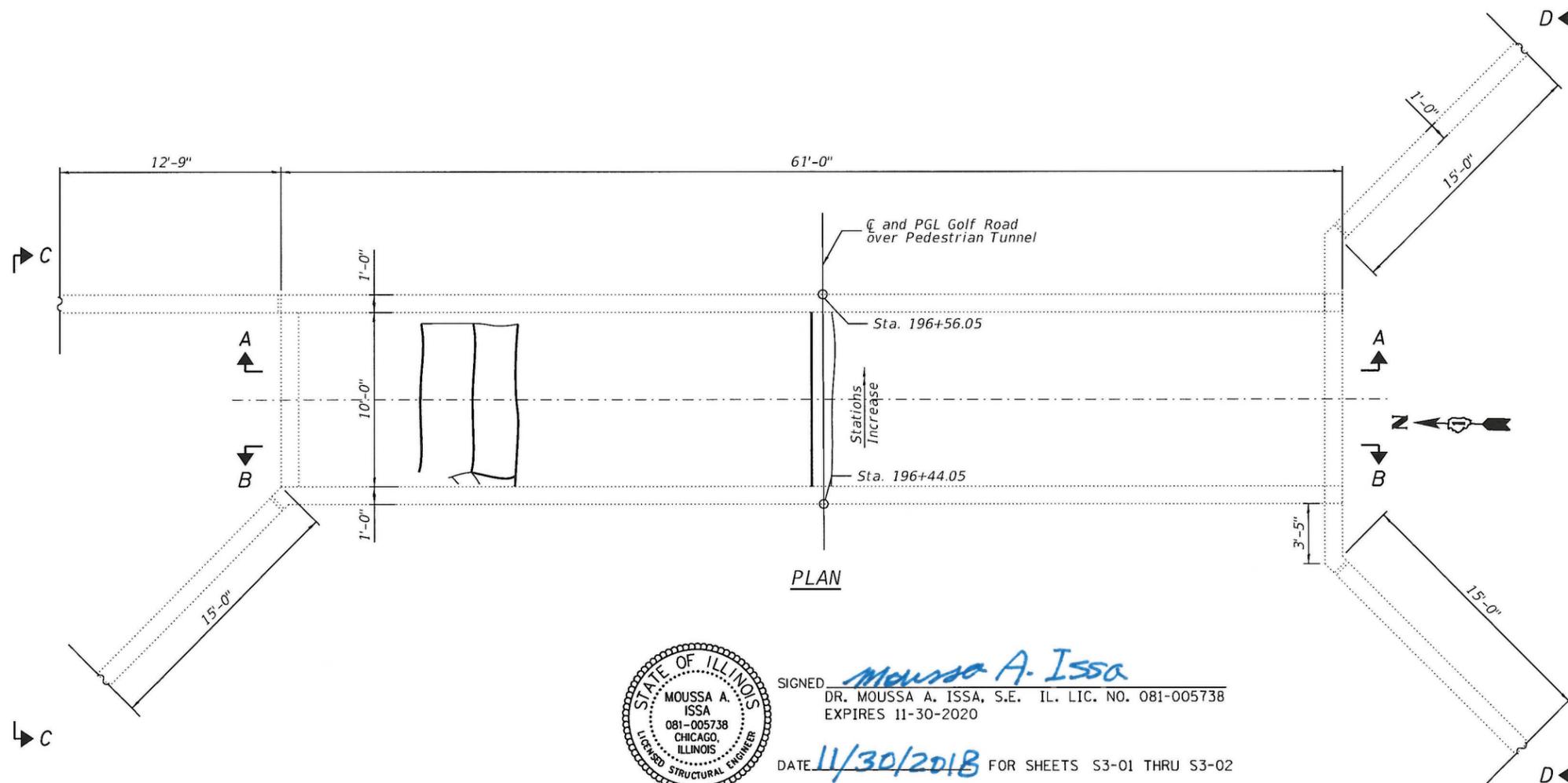
- S3-01 General Plan and Elevation
- S3-02 Details

**NOTES:**

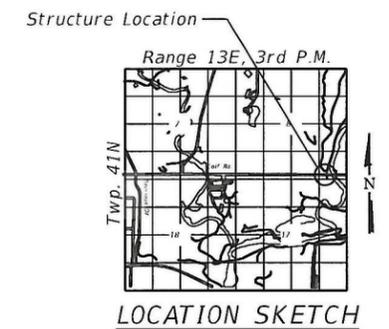
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. For Culvert Sections, see Sheet S3-02.



**ELEVATION**



**PLAN**



**GENERAL PLAN & ELEVATION  
FAP ROUTE 557  
OVER PEDESTRIAN TUNNEL  
SECTION 1977-119-W & RS  
COOK COUNTY  
STATION 196+50.05  
S.N. 016-1256**



SIGNED *Moussa A. Issa*  
DR. MOUSSA A. ISSA, S.E. IL. LIC. NO. 081-005738  
EXPIRES 11-30-2020

DATE *11/30/2018* FOR SHEETS S3-01 THRU S3-02

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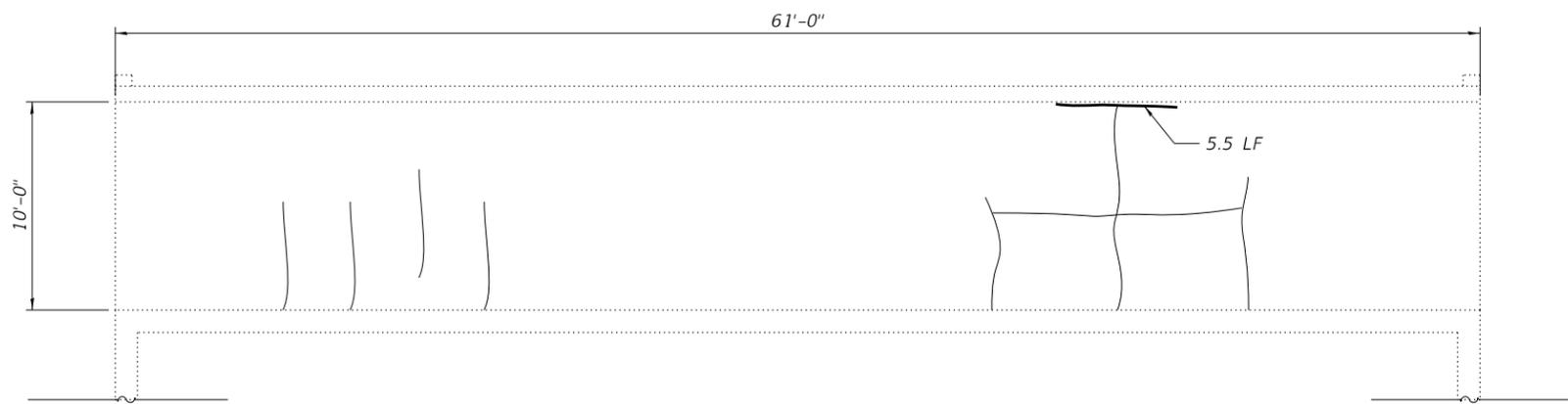
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PLOT SCALE =	CHECKED - MAI, RB, MI	REVISED -
PLOT DATE =	DRAWN - MA, YA	REVISED -
	DATE - 11/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

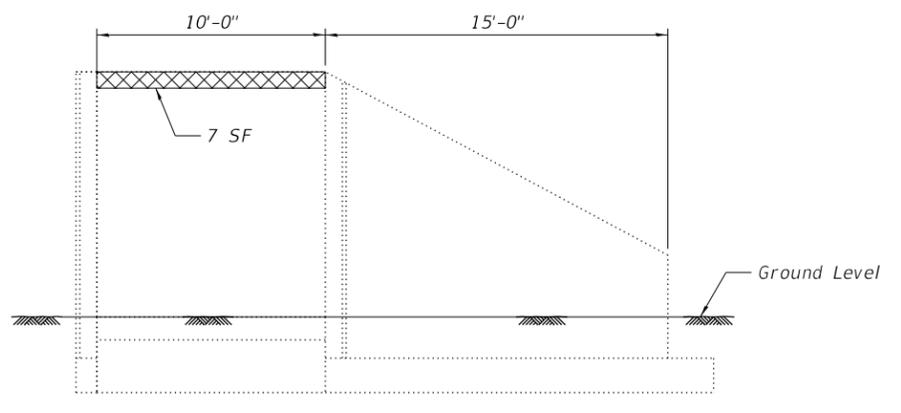
**S.N. 016-1256 GOLF RD OVER PEDESTRIAN TUNNEL**

SHEET S3-01 OF S3-02 SHEETS

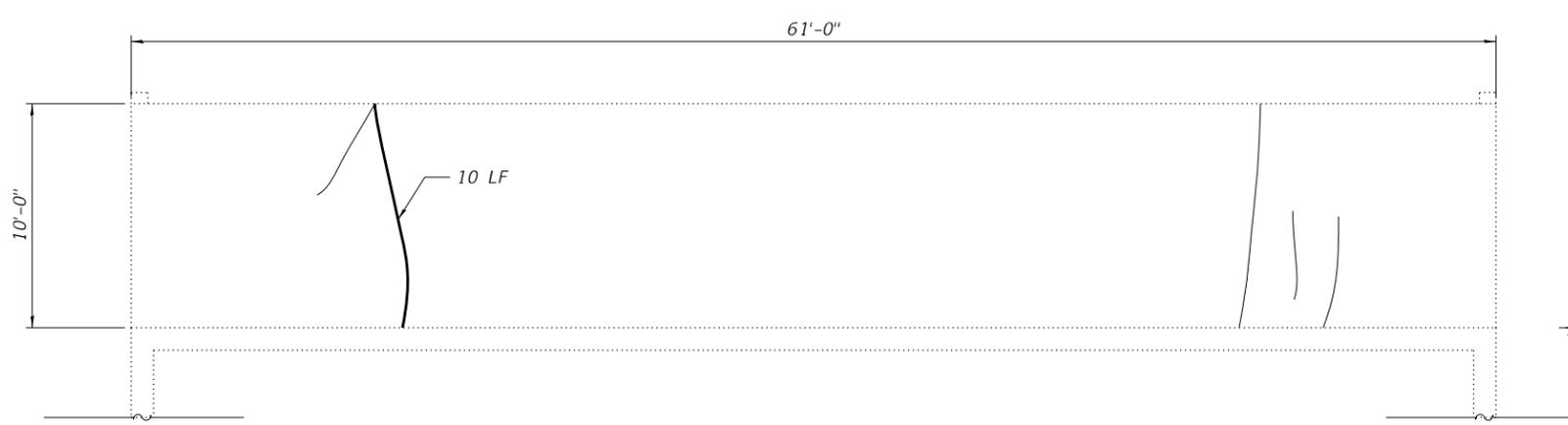
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	66
CONTRACT NO. 60R69			ILLINOIS FED. AID PROJECT	



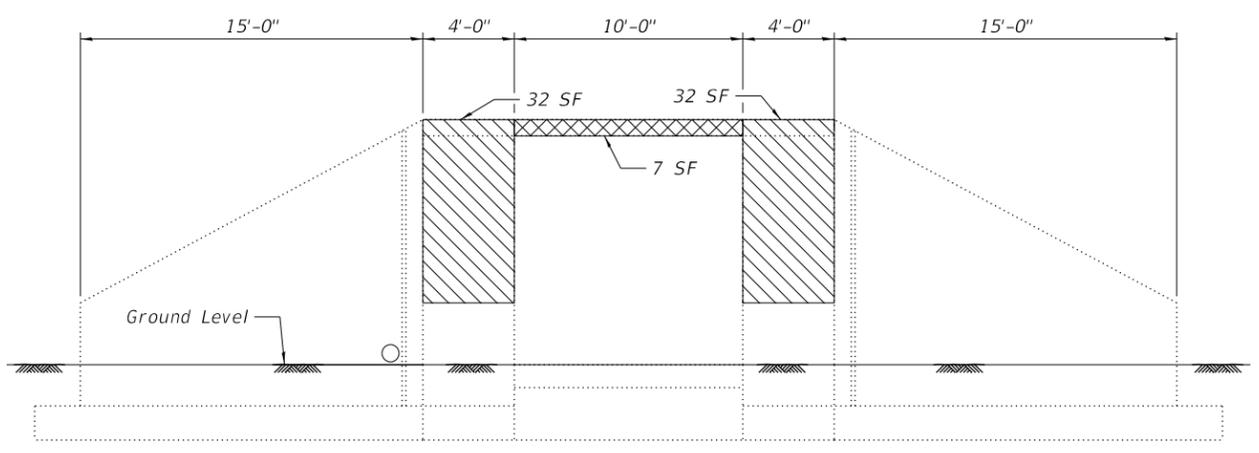
**SECTION A-A**  
(Showing Inside Face East Wall)



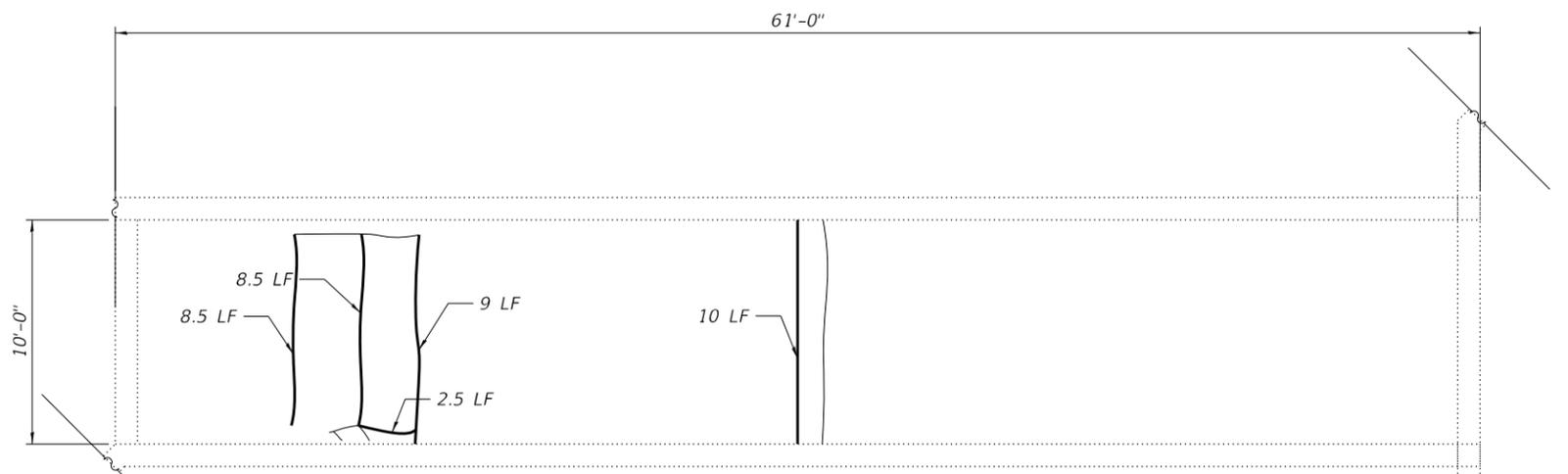
**SECTION C-C**  
(Showing North Face of Culvert)



**SECTION B-B**  
(Showing Inside Face West Wall)



**SECTION D-D**  
(Showing South Face of Culvert)



**PLAN**  
(Showing Inside Face Top Slab)



**NOTES:**

1. 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.
2. For Bill of Material, see Sheet S3-01.

**LEGEND**

- Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)
- Structural Repair of Concrete (Depth Greater Than 5 Inches)
- Epoxy Crack Injection
- Hairline Crack (HL) (Width <0.06") (For Information Only)

MODEL: Default  
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12/11/2018 12:15:00 PM



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PLOT SCALE =	CHECKED - MAI, RB, MI	REVISED -
PLOT DATE =	DRAWN - MA, YA	REVISED -
	DATE - 11/30/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**  
**S.N. 016-1256 GOLF RD OVER PEDESTRIAN TUNNEL**

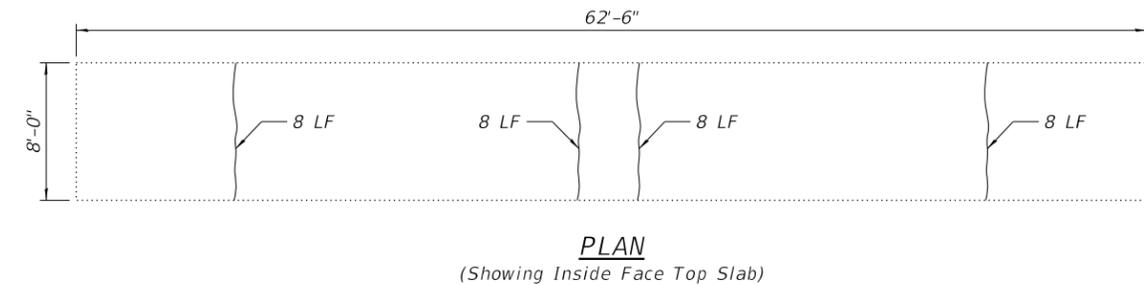
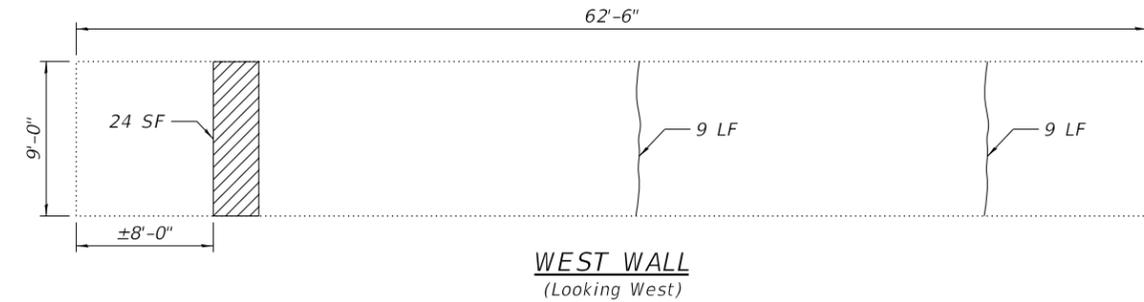
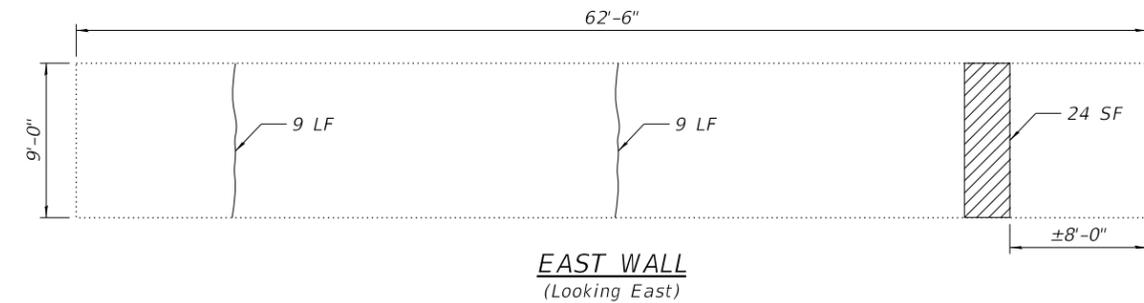
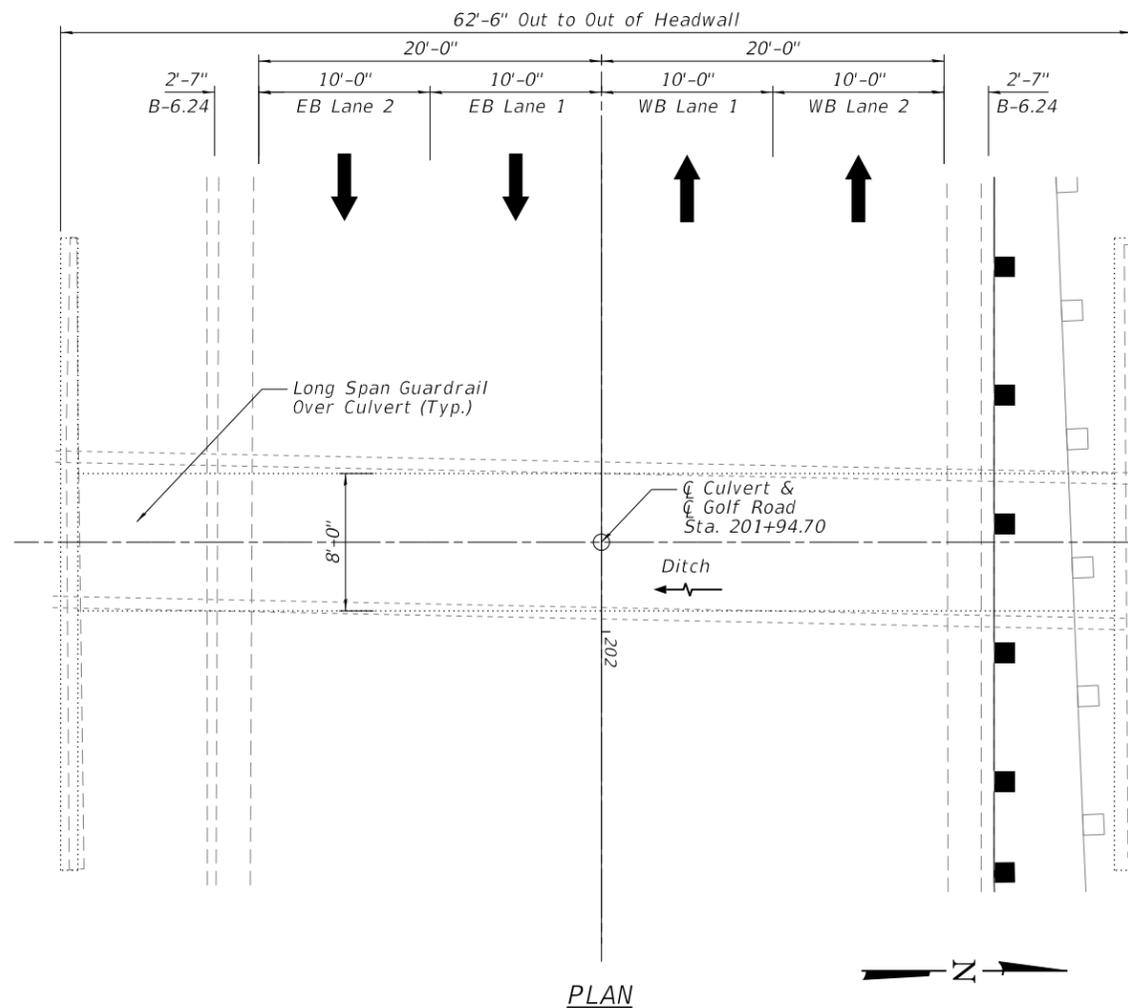
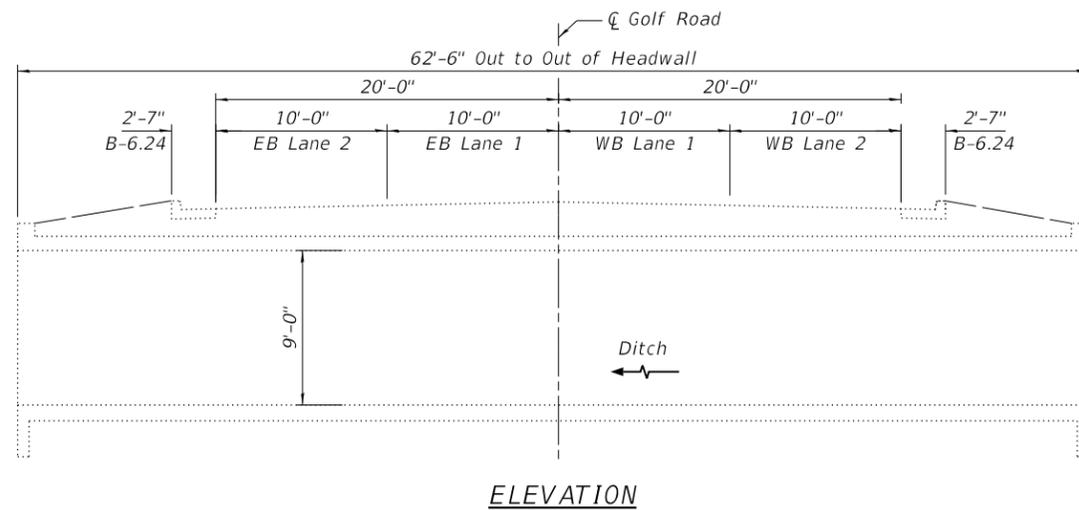
SHEET S3-02 OF S3-02 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	1977-119-W+RS	COOK	75	67
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 016-1257, originally built in 1928 The existing structure consists of a single cell concrete box culvert 8 ft. wide x 9 ft. high and 62.5 ft. in length from headwall to headwall. The wingwalls of the culvert run parallel to the roadway.

Traffic Staging not required.

No Salvage.



DATE: 12/07/2018  
IL. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 11/30/2020

**SCOPE OF WORK**

1. Perform structural concrete repairs for the culvert.

**INDEX OF SHEETS**

S4-01 General Plan & Elevation

**GENERAL NOTES:**

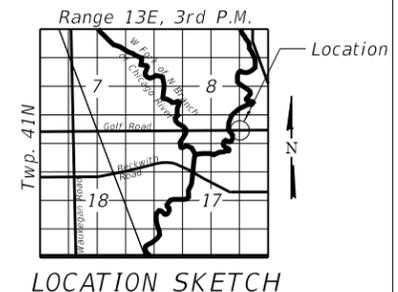
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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 based at the unit price bid for the work.
2. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and type(s) of repair to be used will be determined by the Engineer in the field at the time of construction.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Greater Than 5 Inches)	SQ FT	48
Epoxy Crack Injection	FOOT	68

**LEGEND**

- Structural Repair of Concrete (Depth Greater Than 5 Inches)
- Epoxy Crack Injection



MODEL: Default  
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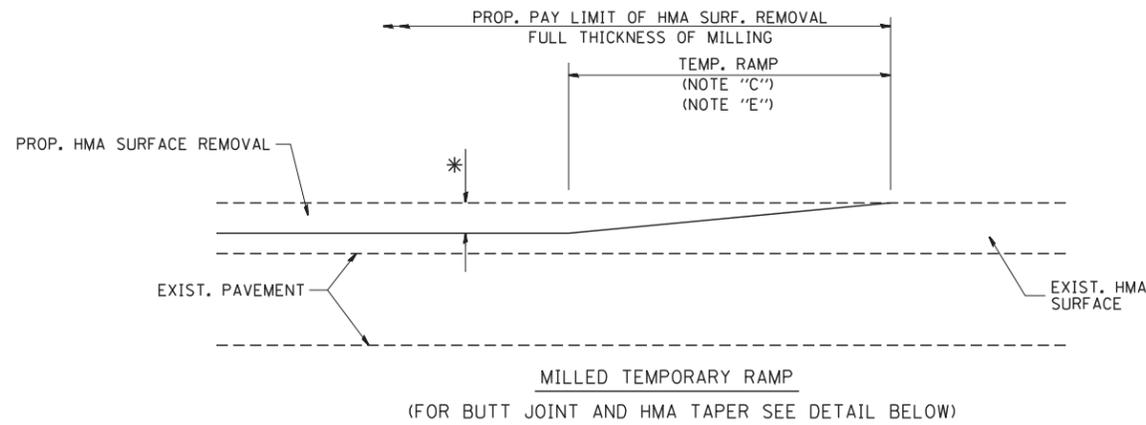
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	DATE - 11/02/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

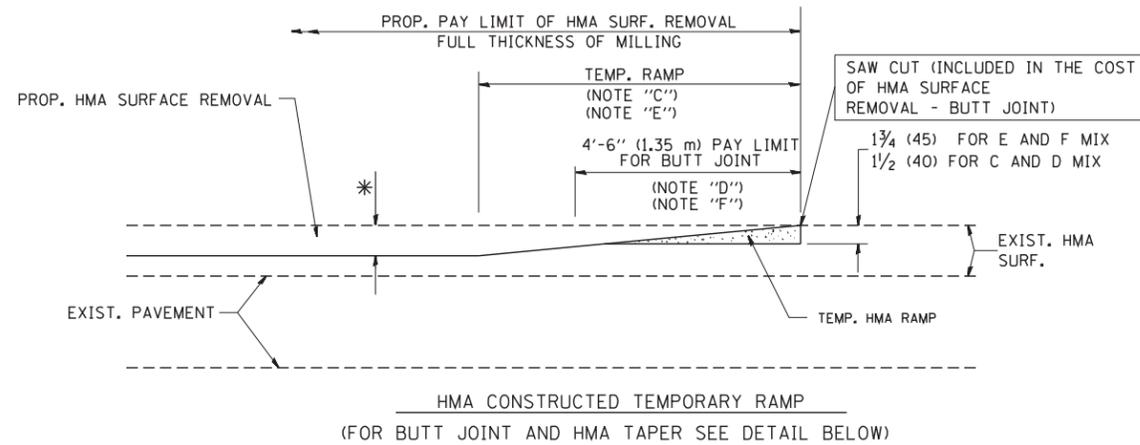
**GENERAL PLAN AND ELEVATION  
STRUCTURE NO. 016-1257**

SHEET S4-01 OF S4-01 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1312	584-B-BR(11)	COOK	75	68
CONTRACT NO. 60R69				
ILLINOIS FED. AID PROJECT				

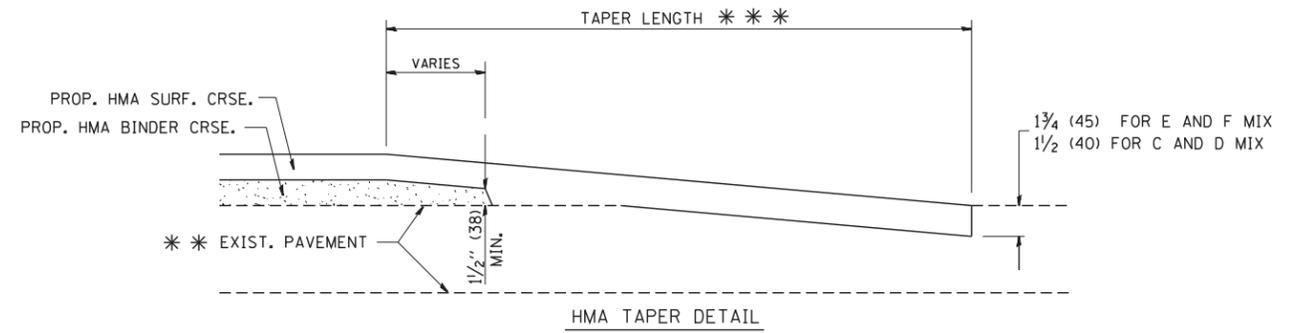
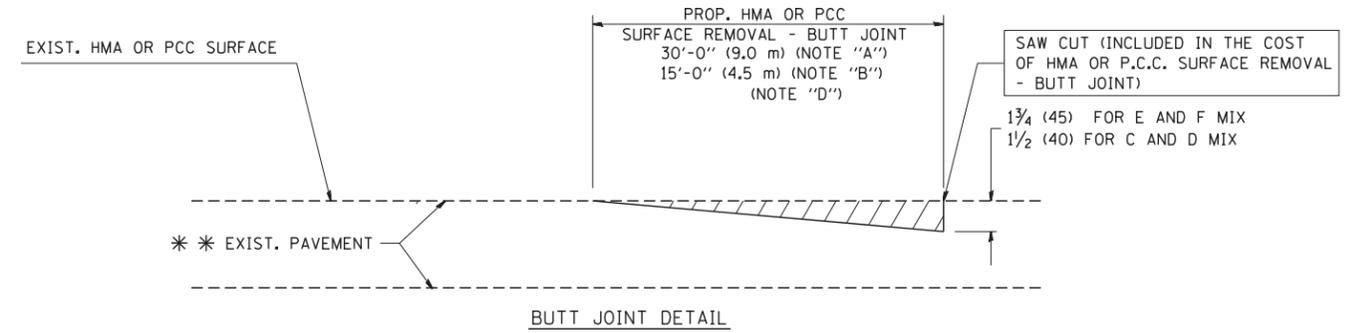


**OPTION 1**



**OPTION 2**

**TYPICAL TEMPORARY RAMP**



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

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

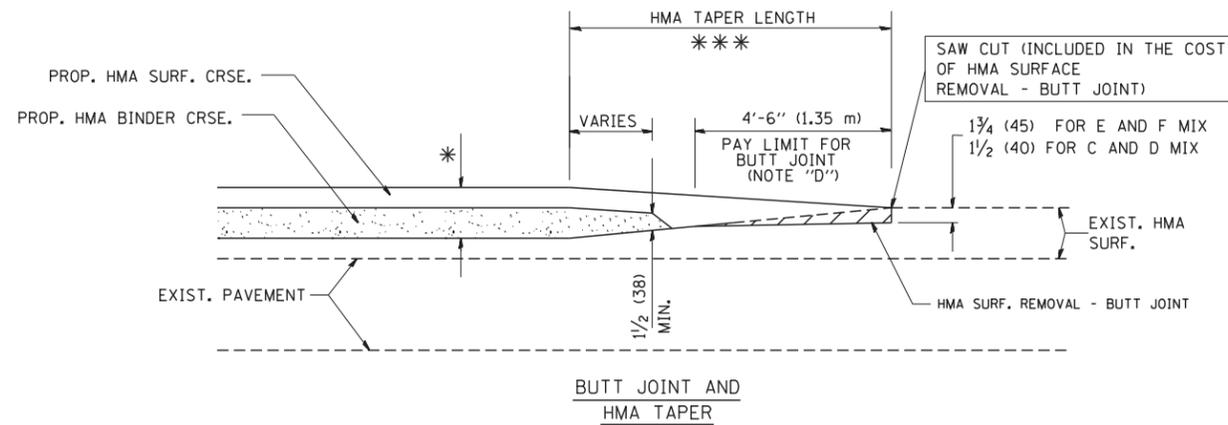
**NOTES**

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

**BASIS OF PAYMENT:**

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

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



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

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PLOT DATE = 1/4/2008

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

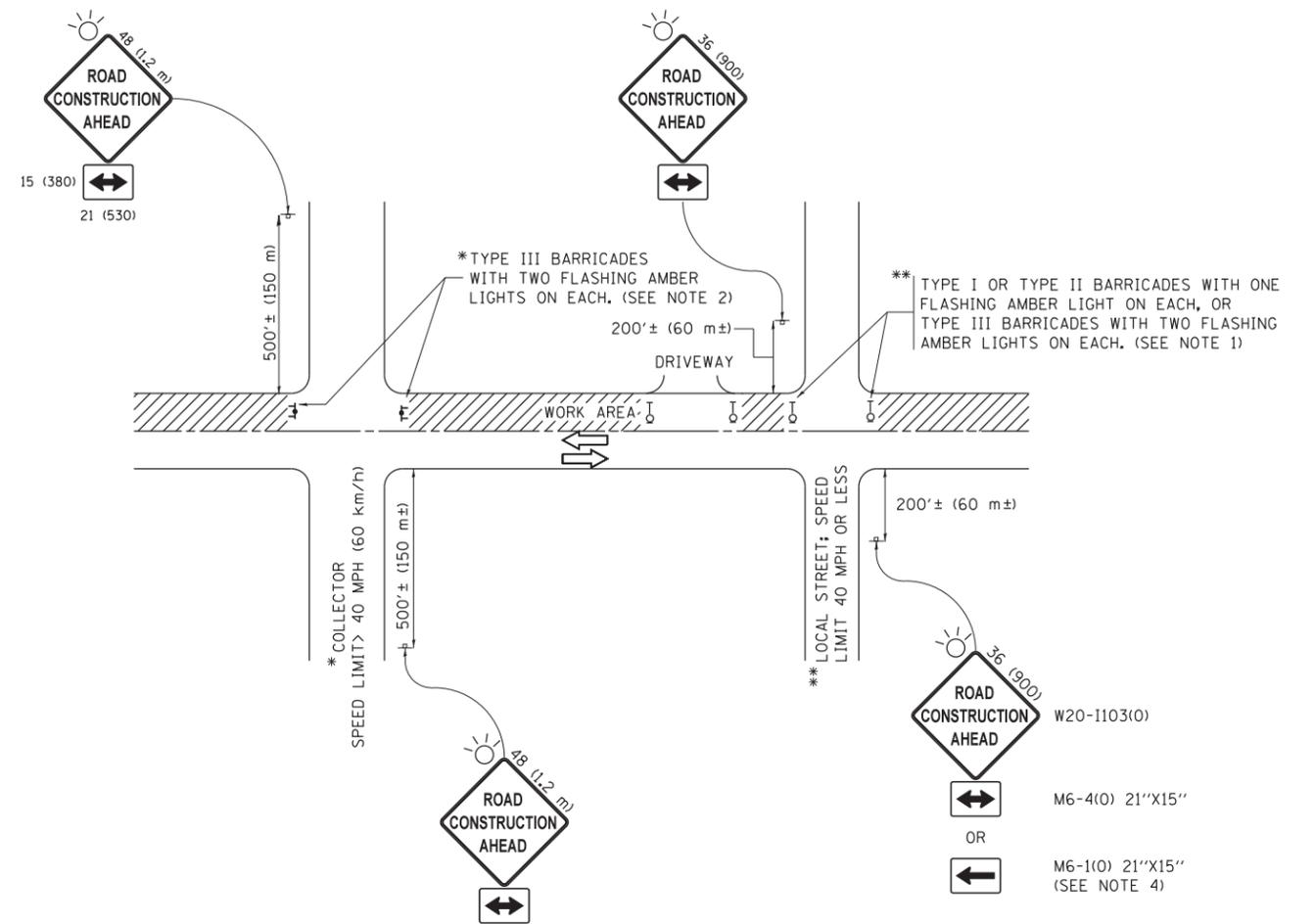
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REVISED - A. ABBAS 03-21-97  
REVISED - M. GOMEZ 04-06-01  
REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	1977-119-W&RS	COOK	75	69
<b>BD400-05 BD32</b>		<b>CONTRACT NO. 60R69</b>		
FED. ROAD DIST. NO. 1 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.

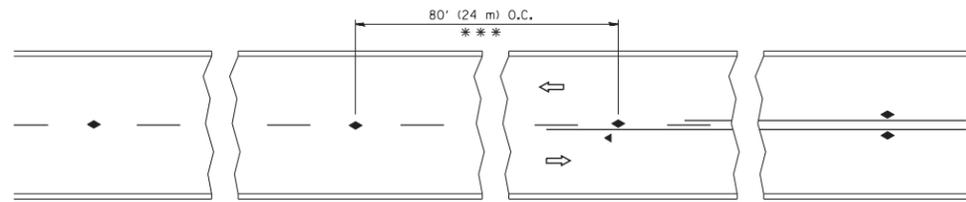
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	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

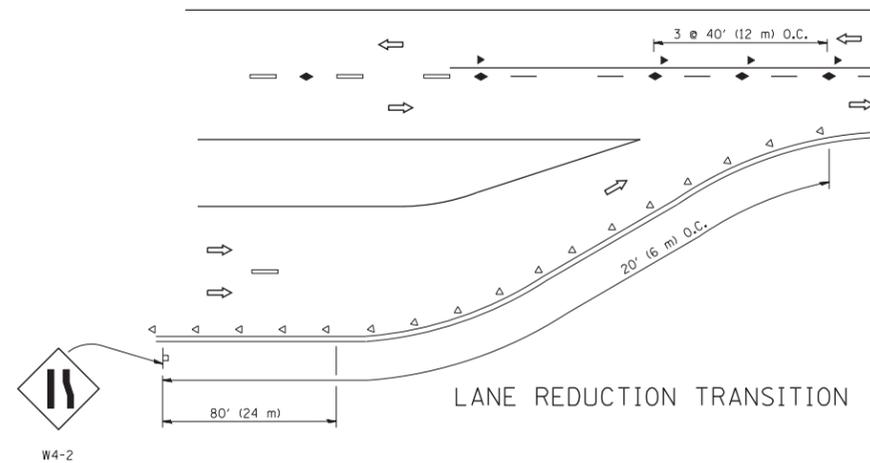
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>		<b>CONTRACT NO.</b>	60R69	
ILLINOIS FED. AID PROJECT				

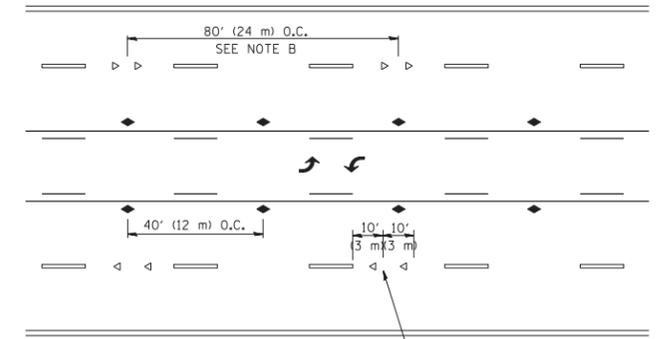


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

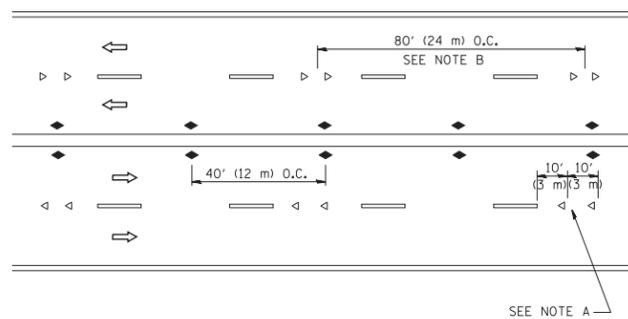
TWO-LANE/TWO-WAY



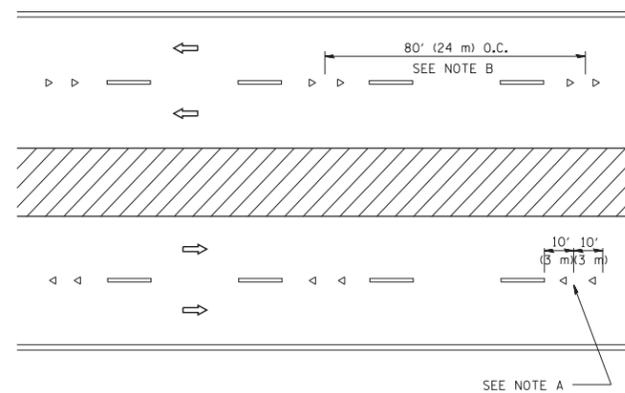
LANE REDUCTION TRANSITION



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

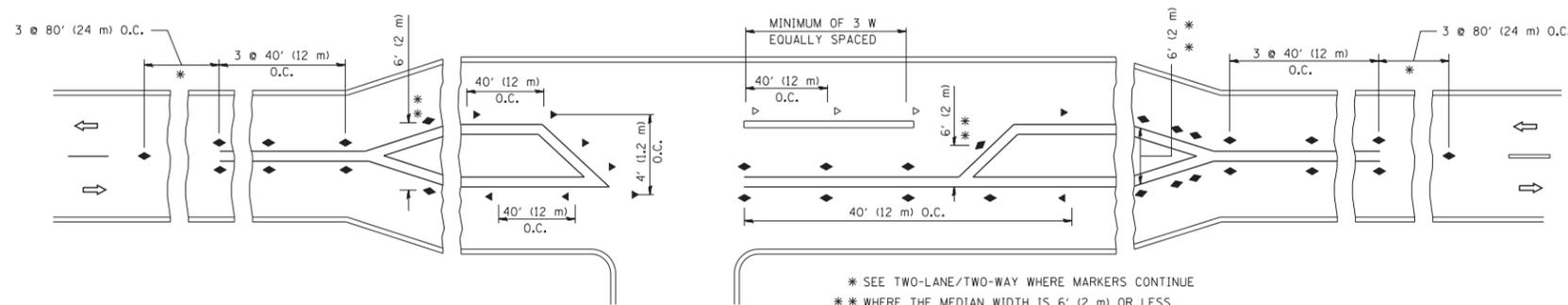
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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

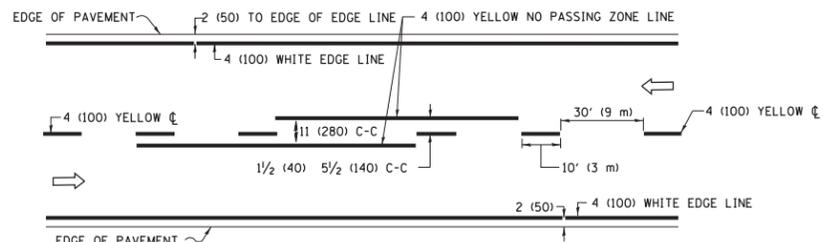
All dimensions are in inches (millimeters) unless otherwise shown.

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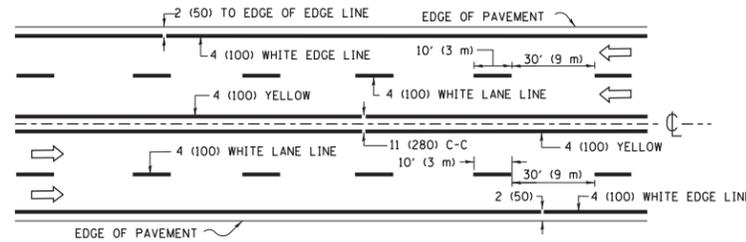
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

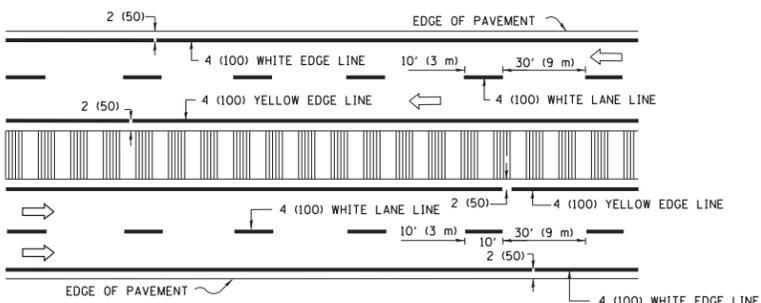
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	1977-119-W & RS	COOK	75	71
TC-11		CONTRACT NO. 60R69		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

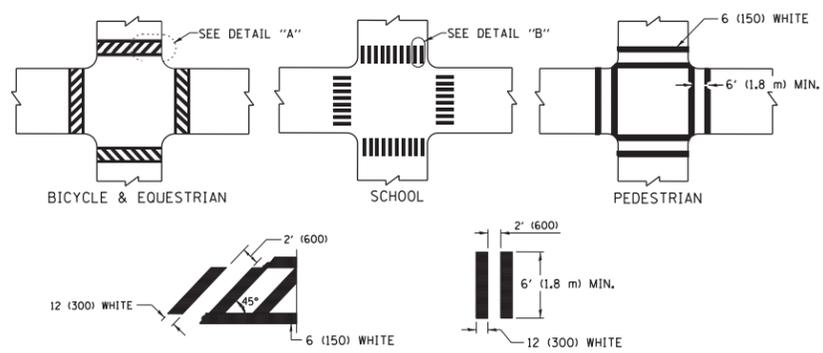


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

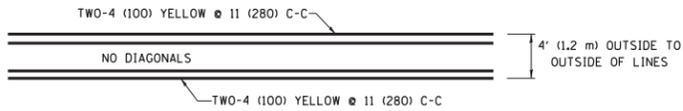


**DETAIL "A"**

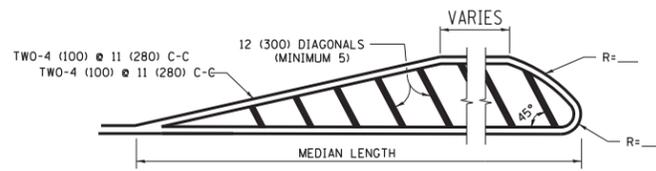
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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

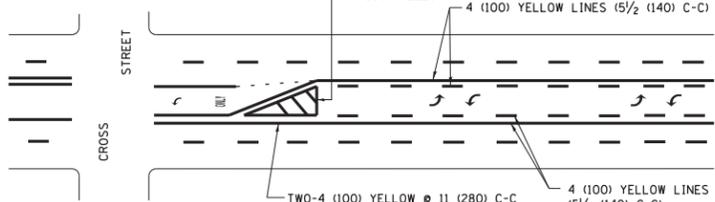


**4' (1.2 m) WIDE MEDIANS ONLY**



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

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))



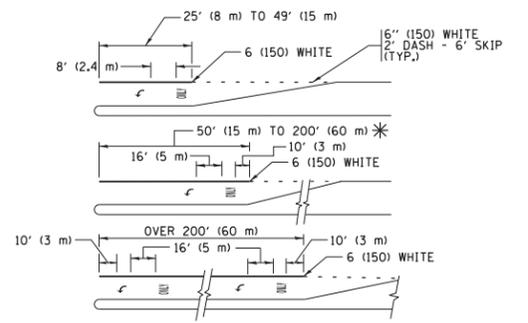
**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

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

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

**TYPICAL TURN LANE MARKING**

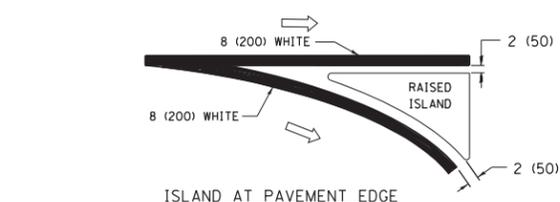
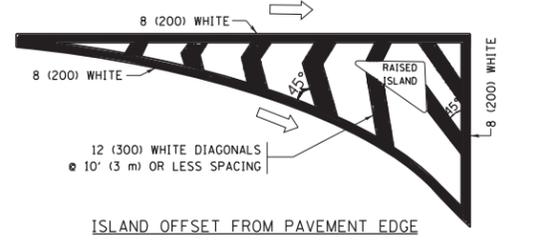


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

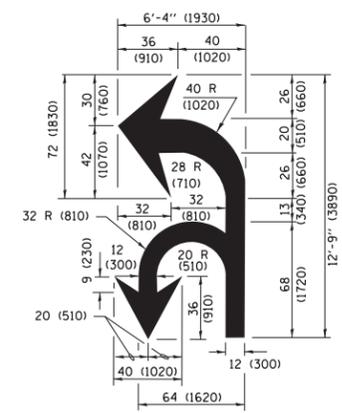
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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

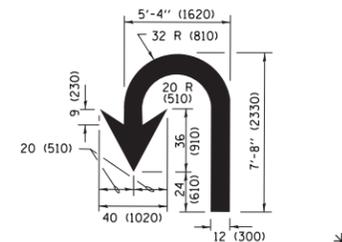
**TYPICAL TURN LANE MARKING**



**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**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 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.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE 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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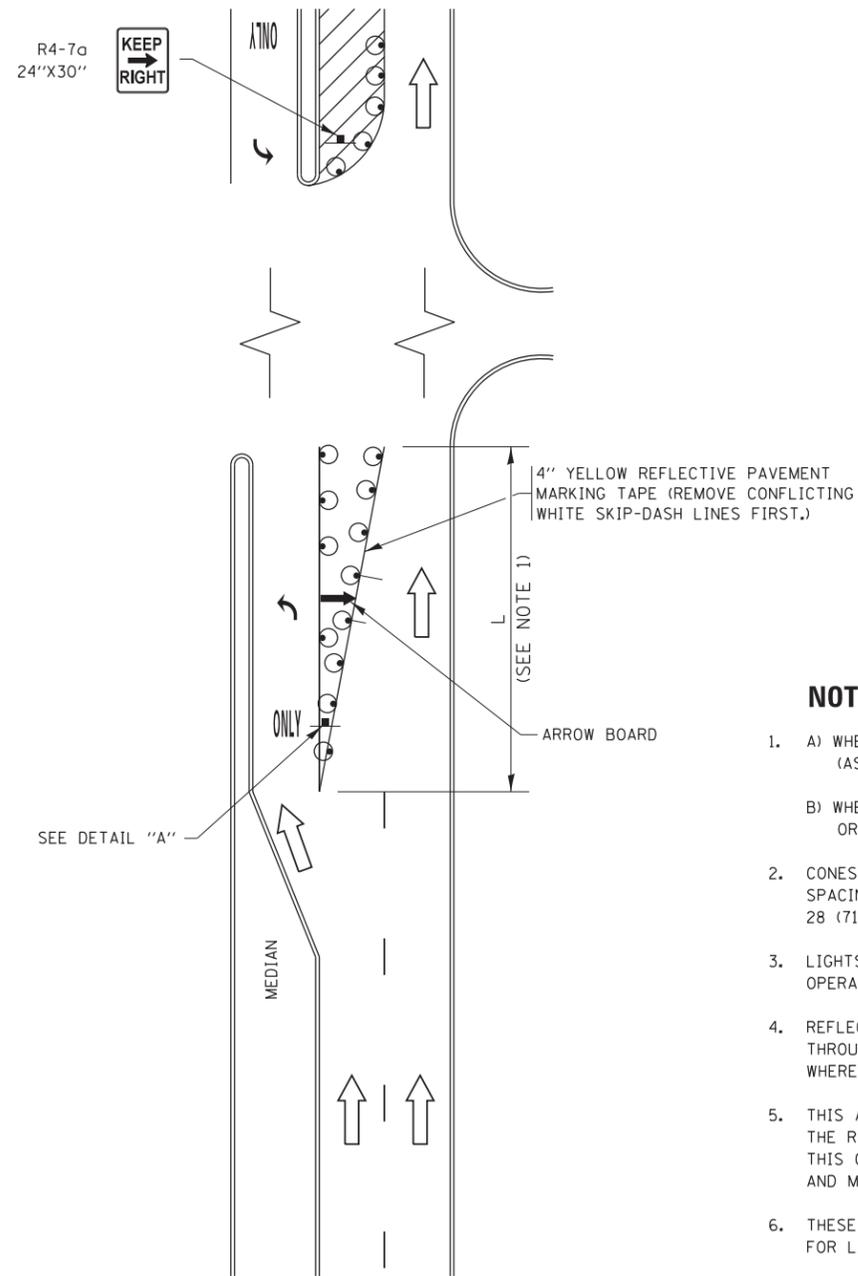
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**TYPICAL PAVEMENT MARKINGS**

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

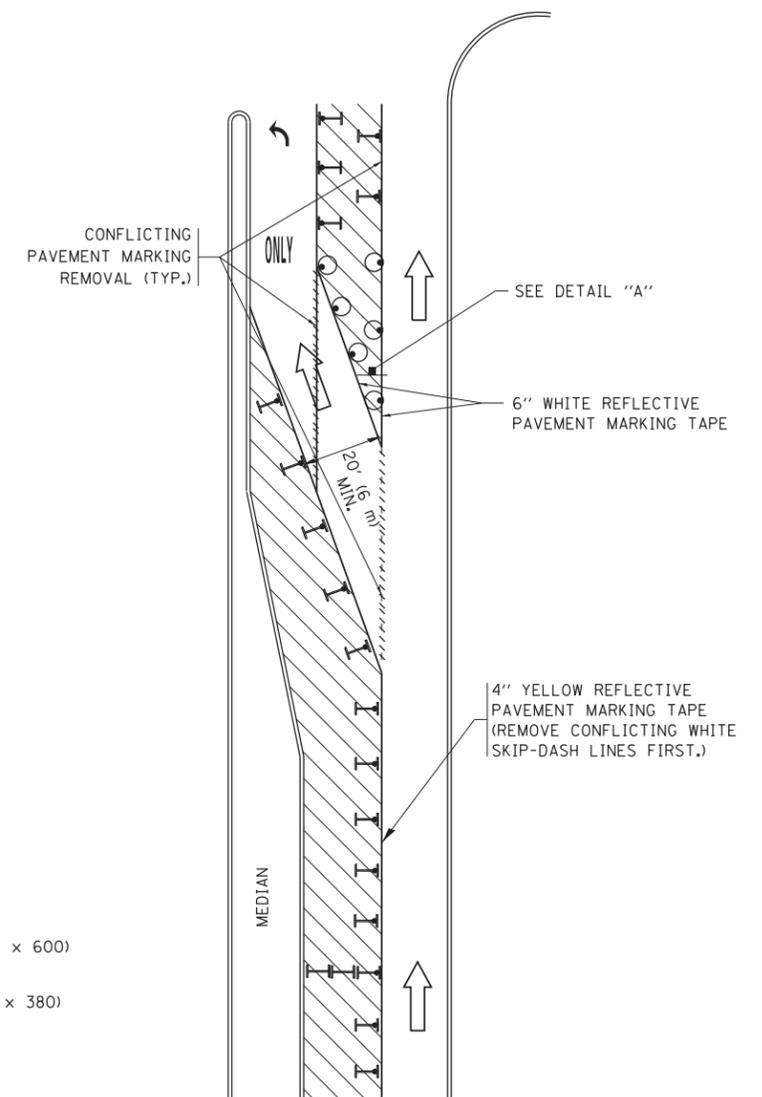
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<b>TC-13</b>		CONTRACT NO. 60R69		
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

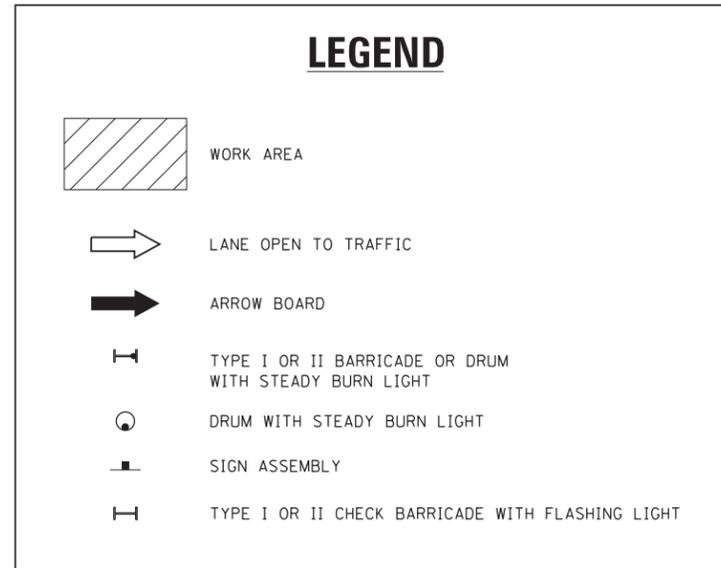


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

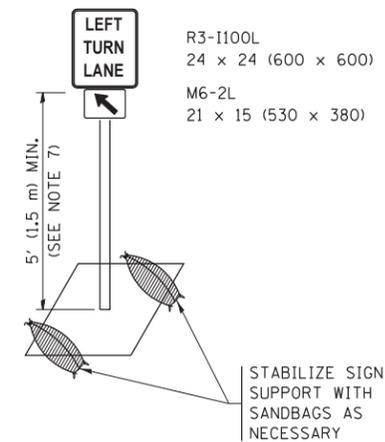


**FIGURE 2**



### NOTES:

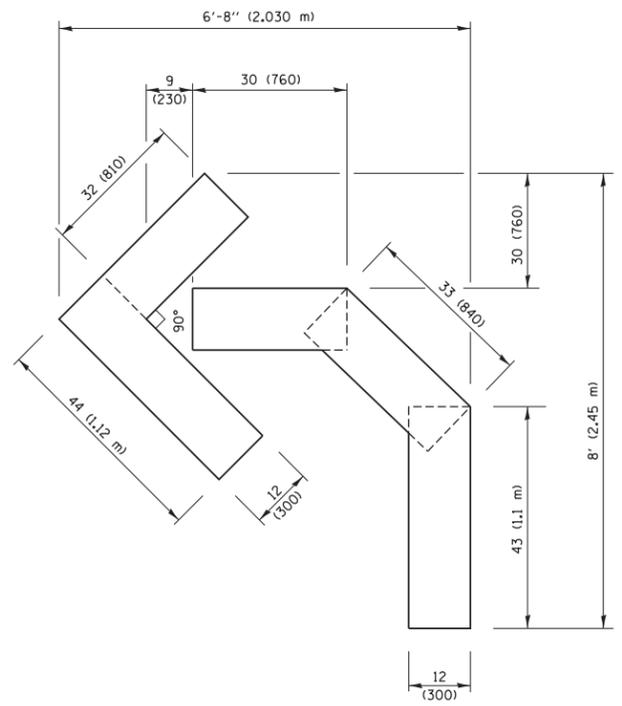
1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



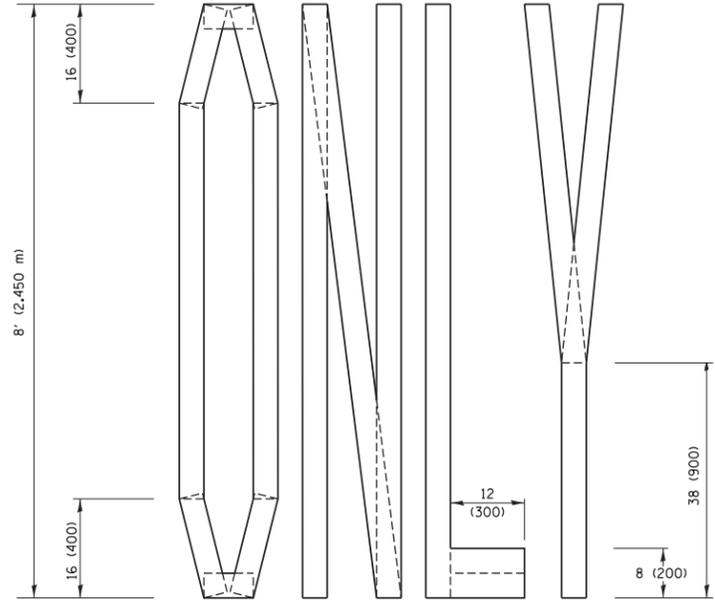
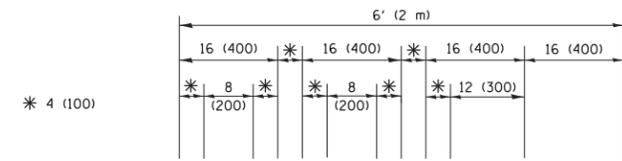
**DETAIL A**

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

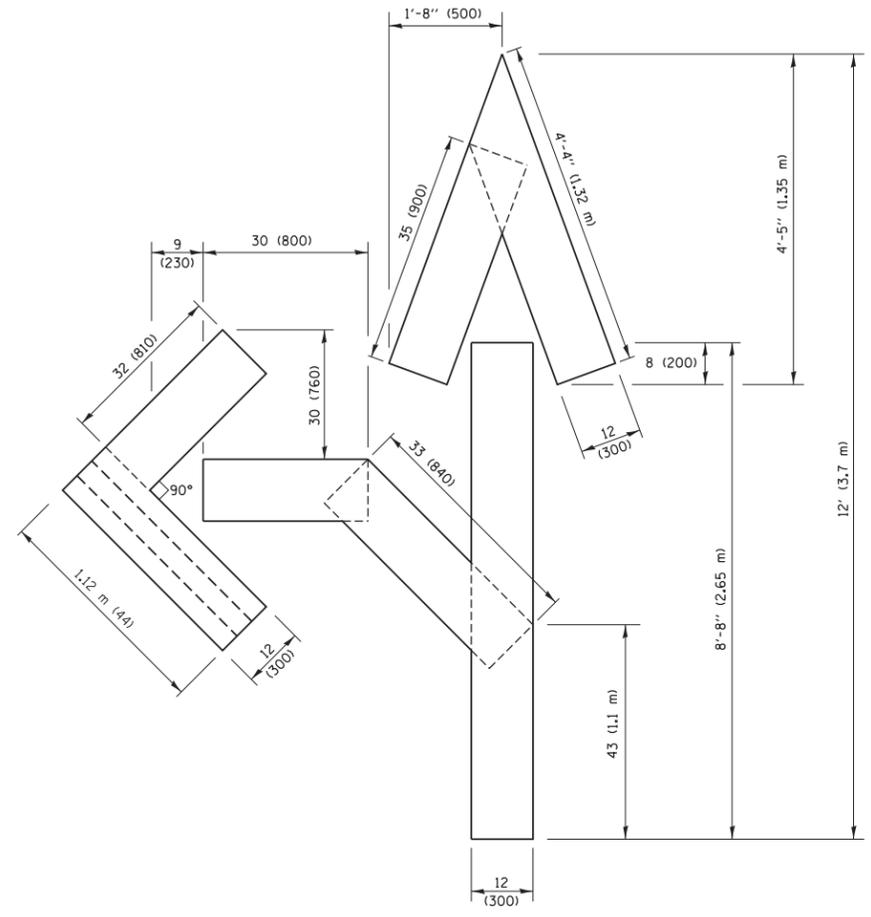
FILE NAME =	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\ADDData\CAHOUSEH1407-95	REVISED - A. HOUSEH 10-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 09-15-16					557	1977-119-W & RS	COOK	75	73
Default	PLOT SCALE = 50.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16					<b>TC-14</b>		<b>CONTRACT NO. 60R69</b>		
	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.			



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

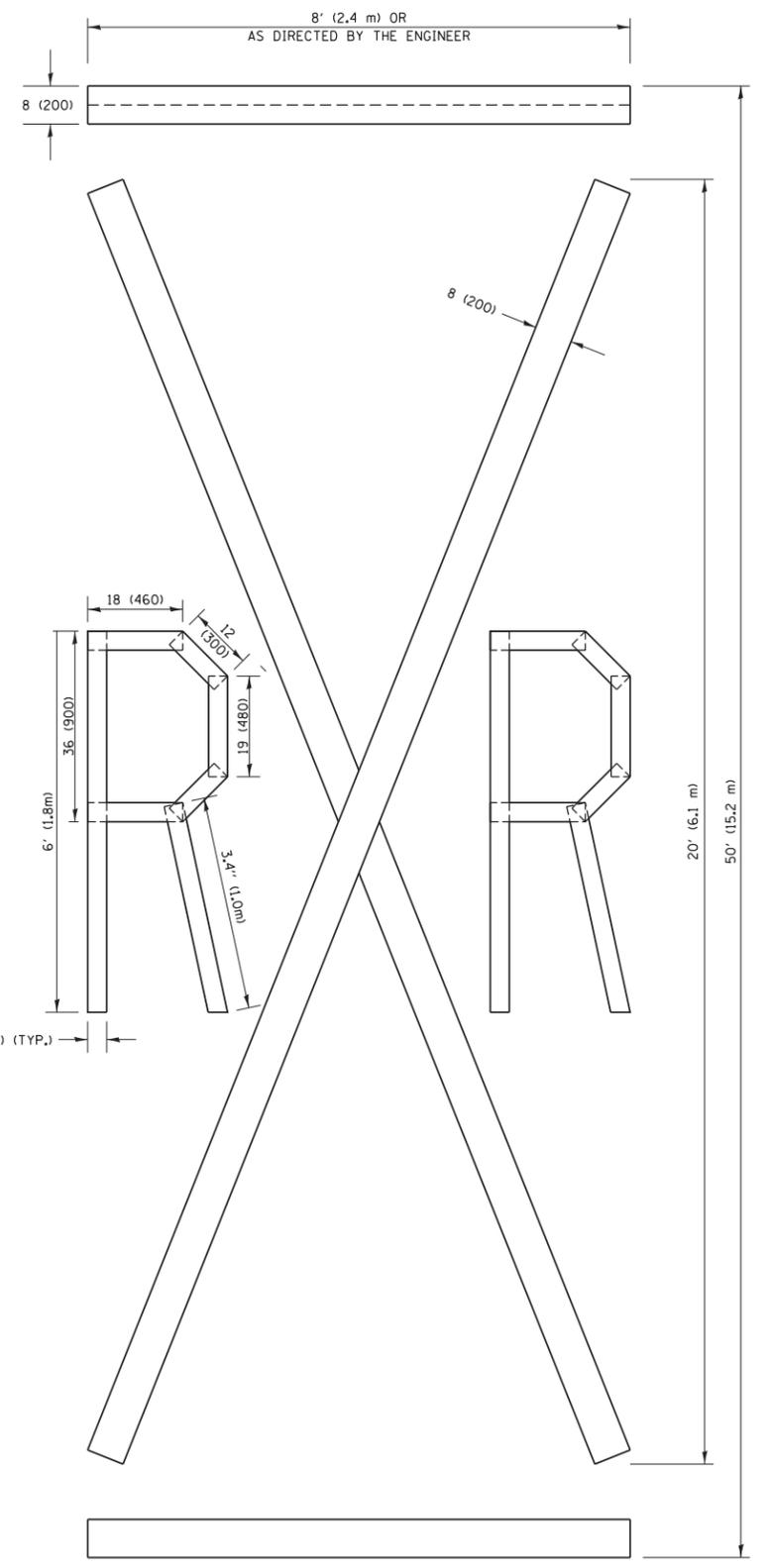


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**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)

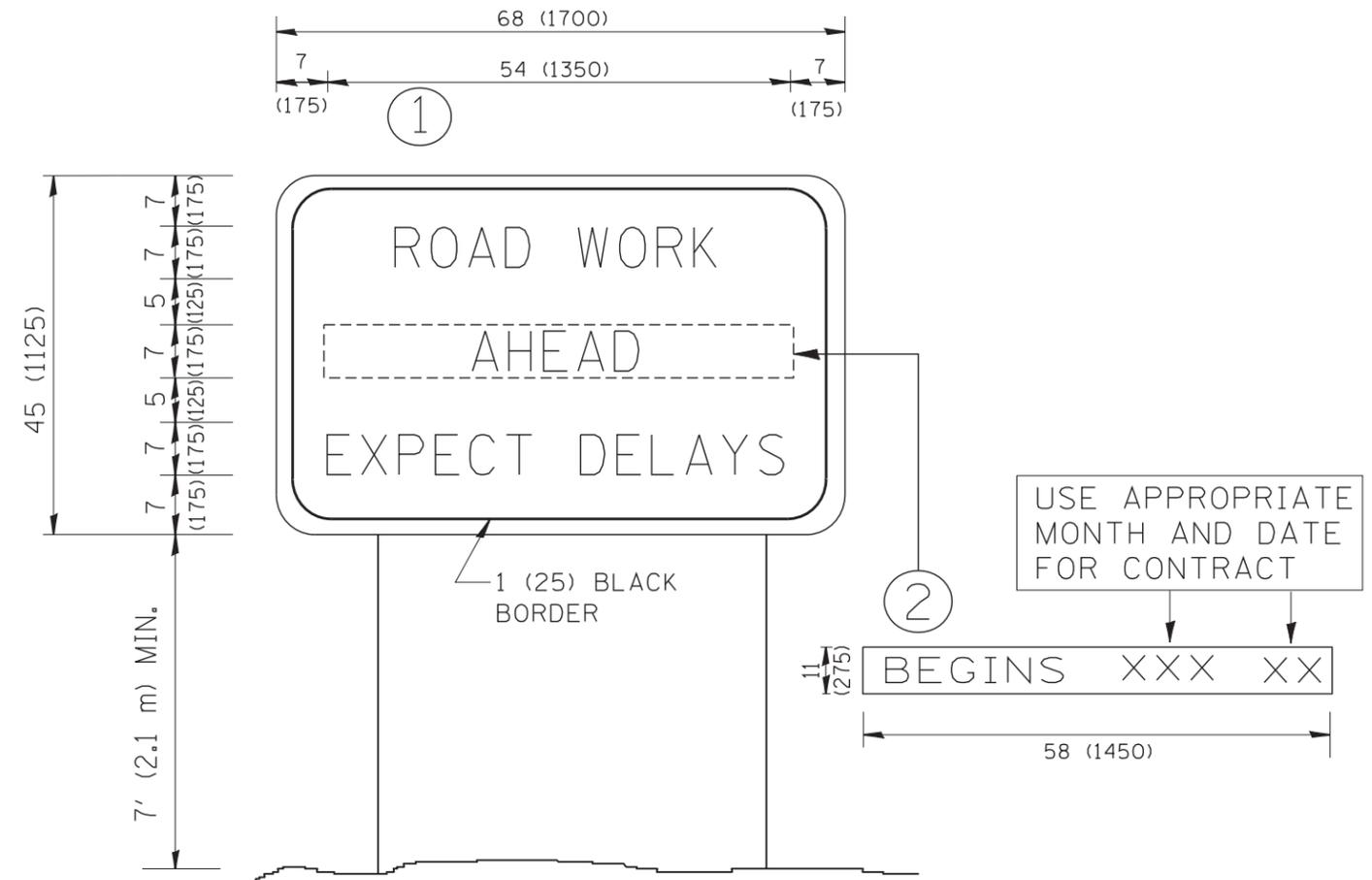
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
pw:\11\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBIDINTEG\CADD\Drawings\TC16.dgn		CHECKED -	REVISED - E. GOMEZ 08-28-00
		PLOT SCALE = 50.0000' / in.	REVISED - E. GOMEZ 08-28-00
		PLOT DATE = 9/15/2016	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 557	SECTION 1977-119-W&RS	COUNTY COOK	TOTAL SHEETS 75	SHEET NO. 74
<b>TC-16</b>		<b>CONTRACT NO.</b>	60R69	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED - REVISED -
		DESIGNED - CHECKED -	REVISED - REVISED -
		DESIGNED - DATE -	REVISED - REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
557	1977-119-W & RS	COOK	75	75
<b>TC-22</b>		<b>CONTRACT NO.</b>	60R69	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				