

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116 BR) & (117BR-1)BDR	OGLE	47	1
		ILLINOIS	CONTRACT NO. 64T07	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAP ROUTE 549 (IL 72)
SECTION (116 BR) & (117BR-1)BDR
PROJECT BR-GJJ7(479)
BRIDGE DECK REHABILITATION
OGLE COUNTY
C-92-028-24

DESIGN DESIGNATION

TRAFFIC DATA



END IMPROVEMENT
STA 218+71.5

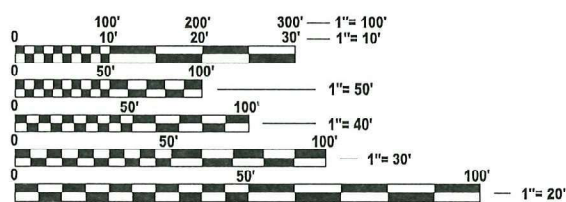
BEGIN IMPROVEMENT
STA 217+68.5

BRIDGE REHABILITATION
071-0036

BEGIN IMPROVEMENT
STA 417+79.00

END IMPROVEMENT
STA 418+67.00

BRIDGE REHABILITATION
071-0037



LOCATION MAP
NOT TO SCALE

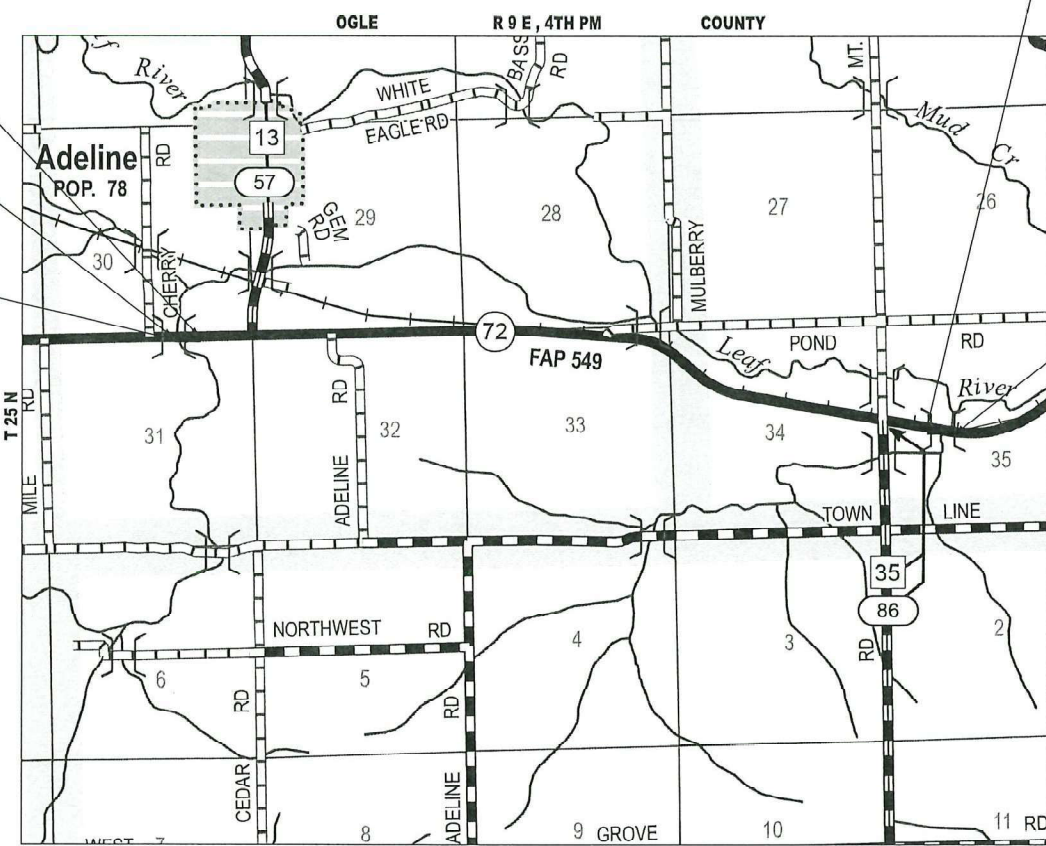
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



PROJECT ENGINEER:
PROJECT MANAGER: DERRICK LOPEZ, PE
(815) 284-5398
CONTRACT NO. 64T07

William J. Sleeman
4/21/26
WILLIAM J. SLEEMAN
LICENSE NO.: 062-048685
EXP: 11-30-2027



GROSS LENGTH = 191 FT. = 0.036 MILE
NET LENGTH = 191 FT. = 0.036 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED April 4 20 26
Julia Thompson
REGIONAL ENGINEER
May 8 20 26
Scott E. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
May 8 20 26
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

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HIGHWAY STANDARDS

- 000001-09 - STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 - AREAS OF REINFORCEMENT BARS
- 001006- DECIMAL OF AN INCH AND A FOOT
- 701006-05 - OFF-RD OPERATIONS 2L 2W 15' TO 24' FROM PAVEMENT EDGE
- 701201-05 - LANE CLOSURE, 2L 2W, DAY ONLY 45 MPH OR MORE
- 701301-04 - LANE CLOSURE, 2L 2W SHORT TIME OPERATIONS
- 701311-03 - LANE CLOSURE 2L 2W, MOVING OPERATIONS DAY ONLY
- 701321-19 - LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
- 701326-04 - LANE CLOSURE, 2L 2W, PAVEMENT WIDENING 45 MPH OR MORE
- 701901-11 - TRAFFIC CONTROL DEVICES
- 704001-08 - TEMPORARY CONCRETE BARRIER
- 780001-05 - TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

1. ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
2. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE THIS PROJECT IS STARTED.
3. THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS A MINIMUM OF 5 WORKING DAYS PRIOR TO PLACING PERMANENT PAVEMENT MARKING OR SIGNING.
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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
6. IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING, OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815-284-5469 AT LEAST 48 HOURS PRIOR TO WORK.
7. IN ADDITION TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATING TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND AERIALS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO THE LUMP SUM PAY ITEMS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS, SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR CHANGE IN SCOPE OF WORK. HOWEVER, CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
8. NO STREAM PERMITS HAVE BEEN PROCURED FOR THIS PROJECT. NONE IS REQUIRED FROM THE REGULATORY AGENCIES IF THERE IS NO DEBRIS FALLING OR BEING PLACED INTO THE STREAM. ANY TEMPORARY FILL IN THE STREAM OR THE COMPROMISING OF THE DIKE (IF APPLICABLE) WILL NOT BE ALLOWED. IF THE CONTRACTOR CHOOSES TO ALTERNATE/MODIFIED CONSTRUCTION METHOD(S), THEY WILL BE RESPONSIBLE FOR OBTAINING THE PROPER PERMITS. NO RELIEF OR COMPENSATION WILL BE GIVEN FOR ANY DELAYS, WORKING DAYS CHARGED, OR CALENDAR DAYS EXPIRED DUE TO THE LOSS OF TIME OR DELAY DURING THE RE-SUBMITTAL PROCESS TO PROCURE ANY NECESSARY PERMIT(S) DUE TO THE CONTRACTOR CHOOSING ALTERNATE/MODIFIED CONSTRUCTION METHOD(S). ABSOLUTELY NO CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHOUT THE PROPER PERMITS BEING SECURED.
9. ALL ELEVATIONS SHOWN REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
10. IDOT DISTRICT 2 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT 815-284-2271 FOR CONTROLLER PROGRAMMING AND TIMING APPROVAL PRIOR TO ACTVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS.
11. 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.
12. UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDIAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE.
 - THE EDGE OF A CENTERLINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A CRACK OR JOINT.
 - EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFICE CONTROL ITEMS.
13. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
 - ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
 - ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
 - THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
 - CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE- WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

MIXTURE REQUIREMENTS

SECTION	(102BR-1)BRR
COUNTY	STEPHENSON
CONTRACT	64T07

MIXTURE USE	SURFACE COURSE	BINDER COURSE
AC/PG	PG58-28	PG58-28
DESIGN AIR VOIDS	4.0% @ Ndes 50	4.0% @ Ndes 50
MIX COMPOSITION (GRADATION)	IL 9.5	IL 19.0
FRICITION AGG	MIXTURE "C"	N/A
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

APPLICATION RATES:

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

- ALL HOT-MIX ASPHALT..... 112 LB/SQ YD/INCH
- BITUMINOUS MATERIALS (TACK COAT)*
- ON MILLED PAVEMENTS..... 0.05 LB/SQ FT
- BETWEEN HMA LIFTS..... 0.05 LB/SQ FT
- EXISTING PAVEMENT..... 0.05 LB/SQ FT
- BITUMINOUS MATERIALS (PRIME COAT).... 0.025 LB/SQ FT
- ALL AGGREGATE..... 2.05 TON/CU YD
- * POLYMER TACK SHALL BE SS-1HP, CSS-1HP, OR NTEA LISTED MATERIAL

COMMITMENTS

- NONE

GENERAL NOTES (CONTINUED)

14. THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MICTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.
15. THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.
16. RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.
17. WHEN RELOCATED TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION, THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.
18. THE CONTRACTOR SHALL CONFINE HIS/HER OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.
19. AREAS OF DECK REPAIRS ARE SHOWN AS ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

MODEL - GENERAL NOTES (Sheet)
FILE NAME: P:\25EA\1832\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht_002 - General Notes.dgn



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1870 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 62659
PHONE: 217-245-4146 FAX: 217-245-4148
IL DESIGN FIRM REGISTRATION NO. 194-00882

USER NAME = gsturgeon	DESIGNED - MBH	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - GJS	REVISED -
PLOT DATE = 4/2/2026	CHECKED - WJS	REVISED -
	DATE - X	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS,
COMMITMENTS & MIXTURE REQUIREMENTS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116 BR) & (117BR-1)BDR	OGLE	47	2
CONTRACT NO. 64T07				
ILLINOIS		FED. AID PROJECT		

MODEL: SOQ 1
 FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 003 - SOQ.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				OGLE COUNTY FUNDING ROADWAY	OGLE COUNTY FUNDING BRIDGE	OGLE COUNTY FUNDING ROADWAY	OGLE COUNTY FUNDING BRIDGE
				0059	0059	0059	0059
				RURAL	S.N. 071-0036	RURAL	S.N. 071-0037
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	788	402		386	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	874	444		430	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	24	12		12	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	95	48		47	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	442	228		214	
50102400	CONCRETE REMOVAL	CU YD	27.4		18.5		8.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	29.2		19.9		9.3
50300300	PROTECTIVE COAT	SQ YD	818		450		368
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5460		3870		1590
50800515	BAR SPLICERS	EACH	70		44		26
52000110	PREFORMED JOINT STRIP SEAL	FOOT	136		68		68
53101002	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	628		331		297
53101408	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4"	SQ YD	628		331		297
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	21		6		15

USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 SN 071-0036 & SN 071-0037**

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 0+01.73 TO STA. 15+01.73

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116 BR) & (117BR-1)BDR	OGLE	47	3
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

MODEL: SOQ 2
 FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 003 - SOQ.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				OGLE COUNTY FUNDING ROADWAY	OGLE COUNTY FUNDING BRIDGE	OGLE COUNTY FUNDING ROADWAY	OGLE COUNTY FUNDING BRIDGE
				0059	0059	0059	0059
				RURAL	S.N. 071-0036	RURAL	S.N. 071-0037
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
59000200	EPOXY CRACK INJECTION	FOOT	14				14
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	27.2		13.6		13.6
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	1		1	
67100100	MOBILIZATION	L SUM	1	0.5		0.5	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1		1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5		0.5	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5		0.5	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	5		5	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1		1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6		6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	28		28	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1291	661		630	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	3729	1912		1817	
70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	48	24		24	

USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 SN 071-0036 & SN 071-0037**

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 16+51.75 TO STA. 31+51.75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	4
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

MODEL: SQQ 3 Sheet
 FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 003 - SQQ.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				OGLE COUNTY FUNDING ROADWAY	OGLE COUNTY FUNDING BRIDGE	OGLE COUNTY FUNDING ROADWAY	OGLE COUNTY FUNDING BRIDGE
				0059	0059	0059	0059
				RURAL	S.N. 071-0036	RURAL	S.N. 071-0037
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
70400100	TEMPORARY CONCRETE BARRIER	FOOT	658.7	342		316.7	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	658.7	342		316.7	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	2		2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	2		2	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1611	672		939	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	501	236		265	
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1611	672		939	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	786	283		503	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	513		276		237
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5		0.5	
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	599		322		277
Z0032400	JOINT REPAIR	EACH	10		6		4
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	3		3		
Z0049790	RELOCATING NAME PLATES	EACH	1		1		

*= SPECIALTY ITEM

USER NAME = gsturjeon
PLOT DATE = 4/2/2026

DESIGNED - GJS	REVISED -
DRAWN - GJS	REVISED -
CHECKED - WJS	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 SN 071-0036 & SN 071-0037**

SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. 32+98.31 TO STA. 47+98.31

F.A.I. RTE. 549	SECTION (116BR) & (117BR-1)BDR	COUNTY OGLE	TOTAL SHEETS 47	SHEET NO. 5
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

PAVING SCHEDULE								
LOCATION				40600295	40600982	40603080	40604050	44000157
STATION	TO	STATION	OFFSET	BITUMINOUS MATERIALS (TACK COAT)	HMA SURFACE REMOVAL - BUTT JOINT	HMA BINDER COURSE, IL-19.0 N50 (VARIES)	HMA SURFACE COURSE, IL-9.5 MIX "C", N50	HOT-MIX SURFACE REMOVAL, 2"
				POUND	SQ YD	TON	TON	SQ YD
SN #071-0036 - SHOULDER - PRE STAGE								
216+42.00	-	217+68.50	RT	26			6.3	56.3
216+42.00	-	217+68.50	LT	26			6.3	56.3
218+71.50	-	220+01.00	LT	26			6.5	57.6
218+71.50	-	220+01.00	RT	26			6.5	57.6
SN #071-0036 - SHOULDER - POST STAGE								
216+42.00	-	217+68.50	RT	38	57	0.75	1.5	
216+42.00	-	217+68.50	LT	38	57	0.75	1.5	
218+71.50	-	220+01.00	LT	38,9	58	0.75	1.5	
218+71.50	-	220+01.00	RT	38,9	58	0.75	1.5	
SN #071-0036 - MAINLINE - POST STAGE								
217+28.50	-	217+68.50	-	72	107	4.5	8.2	
218+71.50	-	219+11.50	-	72	107	4.5	8.2	
SN #071-0037 - SHOULDER - PRE STAGE								
416+59.25	-	417+80.50	RT	25			6.1	53.9
416+69.50	-	417+80.50	LT	23			5.6	49.4
418+65.50	-	419+85.35	LT	24			6.0	53.3
418+65.50	-	419+93.84	RT	26			6.4	57.1
SN #071-0037 - SHOULDER - POST STAGE								
416+59.25	-	417+80.50	RT	36.4	54	0.75	1.5	
416+69.50	-	417+80.50	LT	33.3	50	0.75	1.5	
418+65.50	-	419+85.35	LT	36	54	0.75	1.5	
418+65.50	-	419+93.84	RT	38.6	58	0.75	1.5	
SN #071-0037 - MAINLINE - POST STAGE								
417+40.50	-	417+80.50	-	72	107	4.5	8.2	
418+65.50	-	419+05.50	-	72	107	4.5	8.2	
SN #071-0037 SUBTOTAL				402	444	12	48	228
SN #071-0037 SUBTOTAL				386	430	12	47	214
TOTAL				788	874	24	95	442

THERMOPLASTIC PAVEMENT MARKING - LINE 4"					GROOVING	
LOCATION					78000200	78000200
STATION	TO	STATION	OFFSET	TYPE	FT	FT
SN #071-0036 - POST STAGE						
214+80.00	-	217+68.50	-	YELLOW	80.0	80.0
216+42.00	-	217+68.50	RT	WHITE	126.5	126.5
216+42.00	-	217+68.50	LT	WHITE	126.5	126.5
218+71.50	-	220+01.00	LT	WHITE	129.5	129.5
218+71.50	-	220+01.00	RT	WHITE	129.5	129.5
218+71.50	-	221+57.00	-	YELLOW	80.0	80.0
SN #071-0037 - POST STAGE						
414+97.50	-	417+80.50	-	YELLOW	80.0	80.0
414+97.50	-	417+80.50	-	YELLOW	283.0	283.0
416+58.00	-	417+80.50	LT	WHITE	122.5	122.5
416+58.00	-	417+80.50	RT	WHITE	122.5	122.5
418+65.50	-	419+91.00	LT	WHITE	125.5	125.5
418+65.50	-	419+91.00	RT	WHITE	125.5	125.5
418+65.50	-	421+50.00	-	YELLOW	80.0	80.0
SN #071-0036 SUBTOTAL					672	672
SN #071-0037 SUBTOTAL					939	939
TOTAL					1,611	1,611

MODIFIED URETHANE PAVEMENT MARKING - LINE 4"					
LOCATION					78009004
STATION	TO	STATION	OFFSET	TYPE	FT
SN #071-0036 - POST STAGE					
217+68.50	-	218+71.50	-	YELLOW	30.0
217+68.50	-	218+71.50	LT	WHITE	103.0
217+68.50	-	218+71.50	RT	WHITE	103.0
SN #071-0037 - POST STAGE					
417+80.50	-	418+65.50	-	YELLOW	30.0
417+80.50	-	418+45.50	-	YELLOW	65.0
417+80.50	-	418+65.50	LT	WHITE	85.0
417+80.50	-	418+65.50	RT	WHITE	85.0
SN #071-0036 SUBTOTAL					236
SN #071-0037 SUBTOTAL					265
TOTAL					501

PAVEMENT MARKING REMOVAL - WATER BLASTING				
LOCATION				78300202
STATION	TO	STATION	OFFSET	SQ FT
SN #071-0036 - PRE STAGE				
214+62.46	-	221+71.71	-	63.4
216+45.12	-	219+94.25	12' RT	116.4
216+52.38	-	219+61.37	12' LT	103.0
SN #071-0037 - PRE STAGE				
414+97.50	-	421+50.00	-	63.4
414+97.50	-	421+50.00	-	217.5
416+58.00	-	419+91.00	12' RT	111.0
416+58.00	-	419+91.00	12' LT	111.0
SN #071-0036 SUBTOTAL				283
SN #071-0037 SUBTOTAL				503
TOTAL				786

MODEL: SOQ 1
FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 004 - Schedules.dgn

USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SN 071-0036 & SN 071-0037

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 0+01.73 TO STA. 15+01.73

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116 BR) & (117BR-1)BDR	OGLE	47	6
CONTRACT NO. 64T07				
ILLINOIS		FED. AID PROJECT		

TEMPORARY PAVEMENT MARKING SCHEDULE										
LOCATION				70300150	70307120	70307210	70400100	70400200	70600250	70600350
STATION	TO	STATION	OFFSET	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" TAPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 24" TAPE IV TAPE	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	ATTENUATORS, TEMPORARY (NON-REDIRECT IVE), TEST LEVEL 3	ATTENUATORS, RELOCATE (NON-REDIRECT IVE), TEST LEVEL 3
				SQ FT	FT	FT	FT	FT	EACH	EACH
SN #071-0036 - STAGE 1										
214+80.00			0' RT		12					
215+40.00	-	216+40.00	12' LT - 0' LT	33	100					
216+40.00	-	216+88.00	0' LT - 4.0' LT	16	48					
216+50.13			6.0' LT						1	
216+50.13	-	217+38.49	6.0' LT - 4.0' RT				88.7			
216+42.00	-	216+88.00	12.0' RT - 15.0' RT	15	46.1					
216+88.00	-	219+55.00	4.0' RT	89	267.0					
216+89.00	-	219+56.00	15.0' RT	89	267.0					
217+38.49	-	219+03.16	1.0' RT				164.7			
219+03.16	-	219+92.52	1.0' RT - 6.0' LT				88.7			
219+55.00	-	221+47.00	1.0' RT - 12.0' LT	64	192.7					
219+55.00	-	220+01.00	15.0' RT - 12' RT	15	46.1					
219+92.52			4.2' LT						1	
221+57.00			0' LT		12					
SN #071-0036 - STAGE 2										
215+02.00	-	216+88.00	12.0' RT - 1.0' LT	62	186.7					
216+42.00	-	217+88.00	12.0' LT - 15.0' LT	12	36.2					
216+49.82			6.0' RT							1
216+49.82	-	617+38.25	6.0' RT - 0.5' RT				88.7			
216+88.00	-	219+55.00	3.5' LT	89	267.0					
216+88.00	-	219+55.00	15.0' LT	89	267.0					
217+38.25	-	219+03.16	0.5' LT				164.7			
219+03.16	-	219+91.52	0.5' LT - 6.0' RT				88.7			
219+55.00	-	220+01.00	15.0' LT - 12.0' LT	15	46.1					
219+55.00	-	219+97.00	3.5' LT - 0.0' RT	14	42.1					
219+91.52			6.0' RT							1
219+97.00	-	220+97.00	0.0' RT - 12.0' RT	33	100					
SN #071-0036 - POST-STAGE										
214+80.00	-	221+57.00		24						
SN #071-0036 SUBTOTAL				661	1,912	24	342.0	342.0	2	2

TEMPORARY PAVEMENT MARKING SCHEDULE (CONTINUED)										
LOCATION				70300150	70307120	70307210	70400100	70400200	70600250	70600350
STATION	TO	STATION	OFFSET	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4" TAPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 24" TAPE IV TAPE	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	ATTENUATORS, TEMPORARY (NON-REDIRECT IVE), TEST LEVEL 3	ATTENUATORS, RELOCATE (NON-REDIRECT IVE), TEST LEVEL 3
				SQ FT	FT	FT	FT	FT	EACH	EACH
SN #071-0037 - STAGE 1										
414+97.50			0' RT			12				
415+57.50	-	416+57.50	12' LT - 0' LT	33.3	100					
416+65.89			6.0' LT						1	
416+65.89	-	417+54.25	6.0' LT - 0.875' RT				88.7			
416+57.50	-	417+04.00	0' LT - 3.875' RT	15.6	46.7					
416+58.00	-	417+04.00	12' RT - 15.0' RT	15.4	46.1					
417+04.00	-	419+45.00	3.875' RT	80.3	241					
417+04.00	-	419+45.00	15.0' RT	80.3	241					
419+45.00	-	419+91.00	15.0' RT - 12.0' RT	15.4	46.21					
417+54.25	-	418+93.59	0.875' RT				139.3			
418+93.59	-	419+82.00	0.875' RT - 6.0' LT				88.7			
419+45.00	-	419+98.50	0.875' RT - 0' RT	17.9	53.6					
419+82.00			6.0' LT						1	
419+98.50	-	421+50.00	0' LT - 12' LT	47.2	141.5					
421+50.00			0' LT			12				
SN #071-0037 - STAGE 2										
415+13.50	-	417+04.00	12' RT - 0.5' LT	63.7	191.2					
416+58.00	-	417+04.00	12' LT - 15.0' LT	12.0	36.1					
416+65.89			6.0' RT							1
416+65.89	-	417+54.25	6.0' RT - 0.875' LT				88.7			
417+04.00	-	419+45.00	3.875' LT	80.3	241					
417+04.00	-	419+45.00	15' LT	80.3	241					
417+54.25	-	418+93.59	0.875' RT				139.3			
418+93.59	-	419+81.84	0.875' LT - 6.0' RT				88.7			
419+45.00	-	419+90.00	0.3.875' LT - 0.0' LT	15.0	45.1					
419+45.00	-	419+90.00	15.0' LT - 12.0' LT	15.3	45.9					
419+90.00	-	420+90.00	0.0' RT - 12.0' RT	33.3	100					
419+81.84			6.0' RT							1
SN #071-0037 - POST-STAGE										
414+97.50	-	421+50.00		24						
SN #071-0037 SUBTOTAL				630	1,817	24	316.7	316.7	2	2
TOTAL				1,291	3,729	48	659	659	4	4

MODEL: SOQ 2
FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 004 - Schedules.dgn

USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
SN 071-0036 & SN 071-0037**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116 BR) & (117BR-1)BDR	OGLE	47	7
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

STAGE CONSTRUCTION NOTES

PRE STAGE - SEQUENCE OF CONSTRUCTION

1. CONSTRUCT HMA SHOULDER UTILIZING TRAFFIC CONTROL STANDARD 701326.
2. PLACE "MAX WIDTH" SIGNING AT LOCATIONS SHOWN IN THE PLANS.
3. SET UP STAGE 1 TRAFFIC CONTROL UTILIZING THESE PLANS AND IN CONJUNCTION WITH STANDARD 701321.

STAGE 1 - SEQUENCE OF CONSTRUCTION

1. PERFORM STAGE 1 REMOVAL AND PROPOSED CONSTRUCTION FOR SN 071-0036.

STAGE 2 - SEQUENCE OF CONSTRUCTION

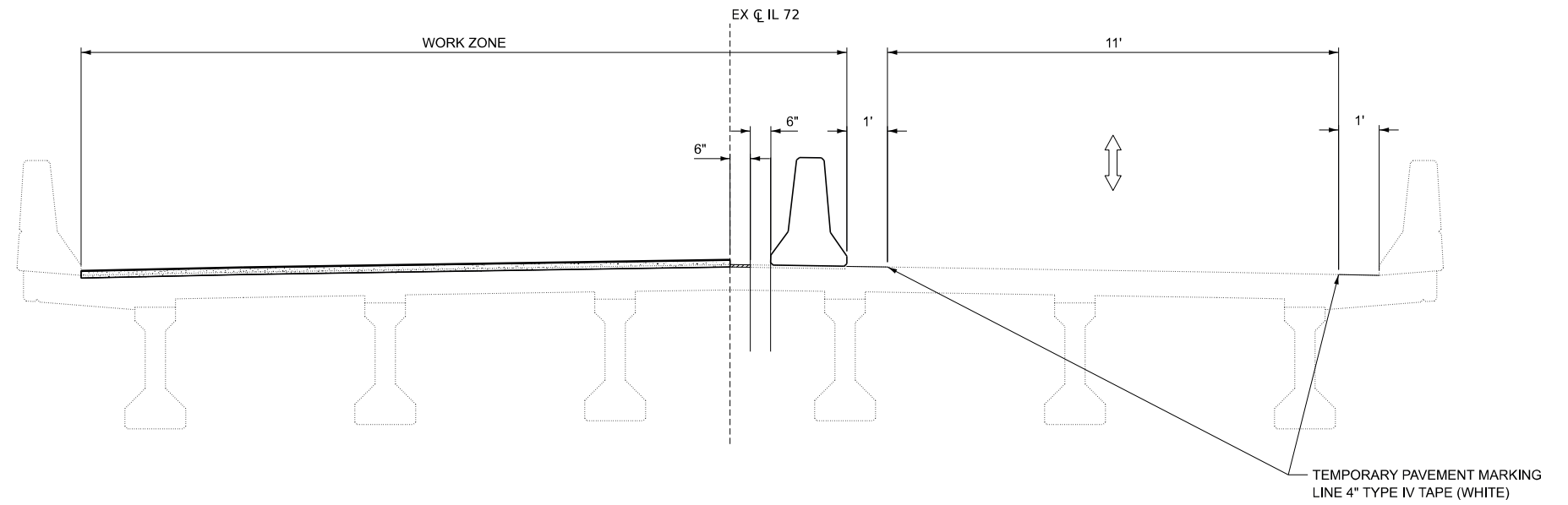
1. FOLLOWING COMPLETION OF STAGE 1 CONSTRUCTION, REMOVE STAGE 1 TEMPORARY PAVEMENT MARKINGS.
2. SET UP STAGE 2 TRAFFIC CONTROL UTILIZING THESE PLANS AND IN CONJUNCTION WITH STANDARD 701321.
3. PERFORM STAGE 2 REMOVAL AND PROPOSED CONSTRUCTION FOR SN 071-0036.

POST STAGE - SEQUENCE OF CONSTRUCTION

1. FOLLOWING THE CONSTRUCTION OF THE PROPOSED CONSTRUCTION WORK FOR THE STRUCTURE, REMOVE TEMPORARY CONCRETE BARRIERS, ATTENUATORS, TEMPORARY PAVEMENT MARKINGS, STOP BARS, ETC. PLACE SHORT TERM PAVEMENT MARKING PRIOR TO OPENING TO TWO-WAY TRAFFIC. PLACE PERMANENT PAVEMENT MARKINGS AND PAINT STEEL ON STRUCTURE UTILIZING APPROPRIATE HIGHWAY STANDARDS.

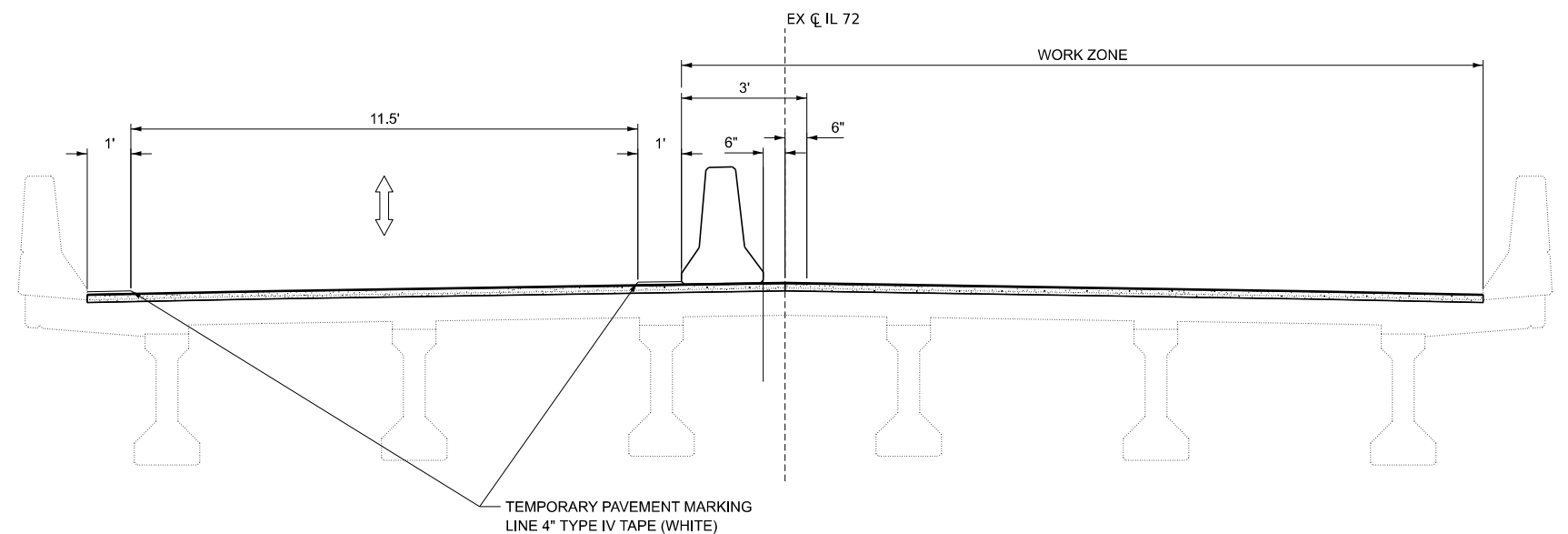
TRAFFIC CONTROL NOTES:

1. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321. TEMPORARY RUMBLE STRIPS, TEMPORARY SIGNING AND TEMPORARY PAVEMENT MARKINGS NOT SHOWN IN THIS DETAIL WILL BE REQUIRED AND SHALL BE INSTALLED AS SHOWN IN STANDARD 701321. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701321.
2. ALL OFFSETS IN THIS DETAIL REFER TO THE EDGE OF BARRIER OR PAVEMENT MARKING LINE NEAREST TO LIVE TRAFFIC. OUTSIDE PAVEMENT MARKING LINE SHALL BE OFFSET 10' PARALLEL.
3. A QUANTITY OF xxxx FEET OF TEMPORARY PAVEMENT MARKING LINE, 6" HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM VERTICAL 6" OF THE TEMPORARY CONCRETE BARRIERS ON BOTH SIDES. COLOR OF MARKING LINE SHALL BE YELLOW.
4. WHERE PERMANENT RRPM ARE PRESENT AND CONFLICT WITH THE REVISED TRAFFIC PATTERNS, ONLY THE REFLECTORS SHALL BE REMOVED.



STAGE 1 CONSTRUCTION

STA 217+68.49 TO STA 218+71.51
(LOOKING EAST)



STAGE 2 CONSTRUCTION

STA 217+68.49 TO STA 218+71.51
(LOOKING EAST)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS & NOTES
SN 071-0036 OVER DRAINAGE DITCH

SHEET 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	116 BR	OGLE	47	8
CONTRACT NO. 64T07				

ILLINOIS FED. AID PROJECT

USER NAME =	DESIGNED PLD	REVISED -
	CHECKED MBH	REVISED -
PLOT SCALE =	DRAWN GJS	REVISED -
PLOT DATE =	CHECKED WJS	REVISED -

STAGE CONSTRUCTION NOTES

PRE STAGE - SEQUENCE OF CONSTRUCTION

1. CONSTRUCT HMA SHOULDER UTILIZING TRAFFIC CONTROL STANDARD 701326.
2. PLACE "MAX WIDTH" SIGNING AT LOCATIONS SHOWN IN THE PLANS.
3. SET UP STAGE 1 TRAFFIC CONTROL UTILIZING THESE PLANS AND IN CONJUNCTION WITH STANDARD 701321.

STAGE 1 - SEQUENCE OF CONSTRUCTION

1. PERFORM STAGE 1 REMOVAL AND PROPOSED CONSTRUCTION FOR SN 071-0037.

STAGE 2 - SEQUENCE OF CONSTRUCTION

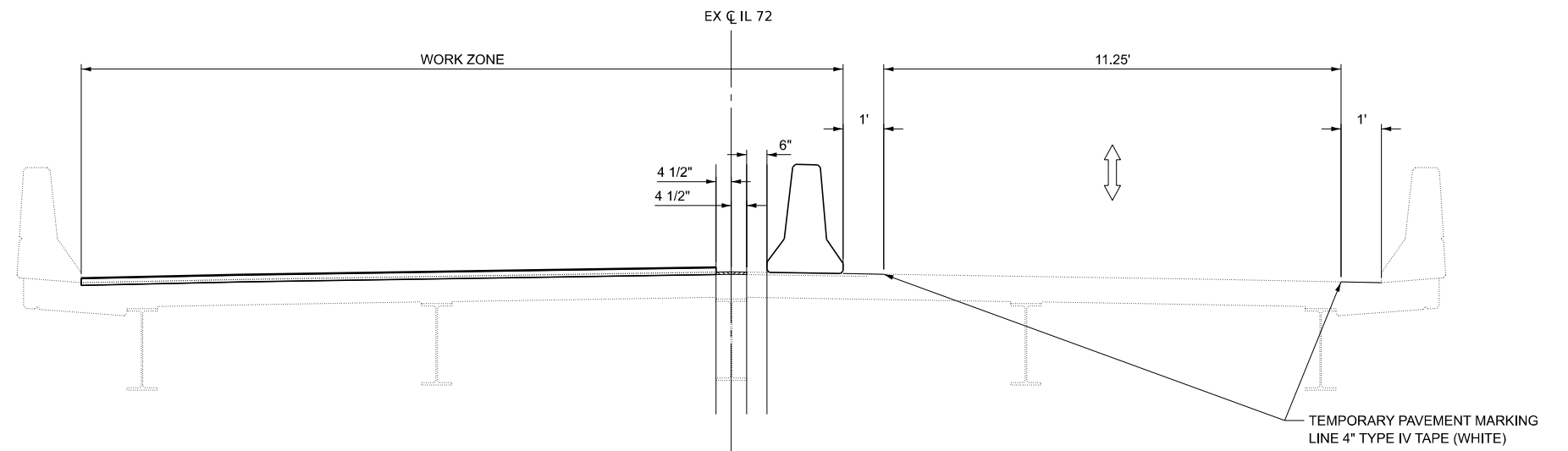
1. FOLLOWING COMPLETION OF STAGE 1 CONSTRUCTION, REMOVE STAGE 1 TEMPORARY PAVEMENT MARKINGS.
2. SET UP STAGE 2 TRAFFIC CONTROL UTILIZING THESE PLANS AND IN CONJUNCTION WITH STANDARD 701321.
3. PERFORM STAGE 2 REMOVAL AND PROPOSED CONSTRUCTION FOR SN 071-0037.

POST STAGE - SEQUENCE OF CONSTRUCTION

1. FOLLOWING THE CONSTRUCTION OF THE PROPOSED CONSTRUCTION WORK FOR THE STRUCTURE, REMOVE TEMPORARY CONCRETE BARRIERS, ATTENUATORS, TEMPORARY PAVEMENT MARKINGS, STOP BARS, ETC. PLACE SHORT TERM PAVEMENT MARKING PRIOR TO OPENING TO TWO-WAY TRAFFIC. PLACE PERMANENT PAVEMENT MARKINGS AND PAINT STEEL ON STRUCTURE UTILIZING APPROPRIATE HIGHWAY STANDARDS.

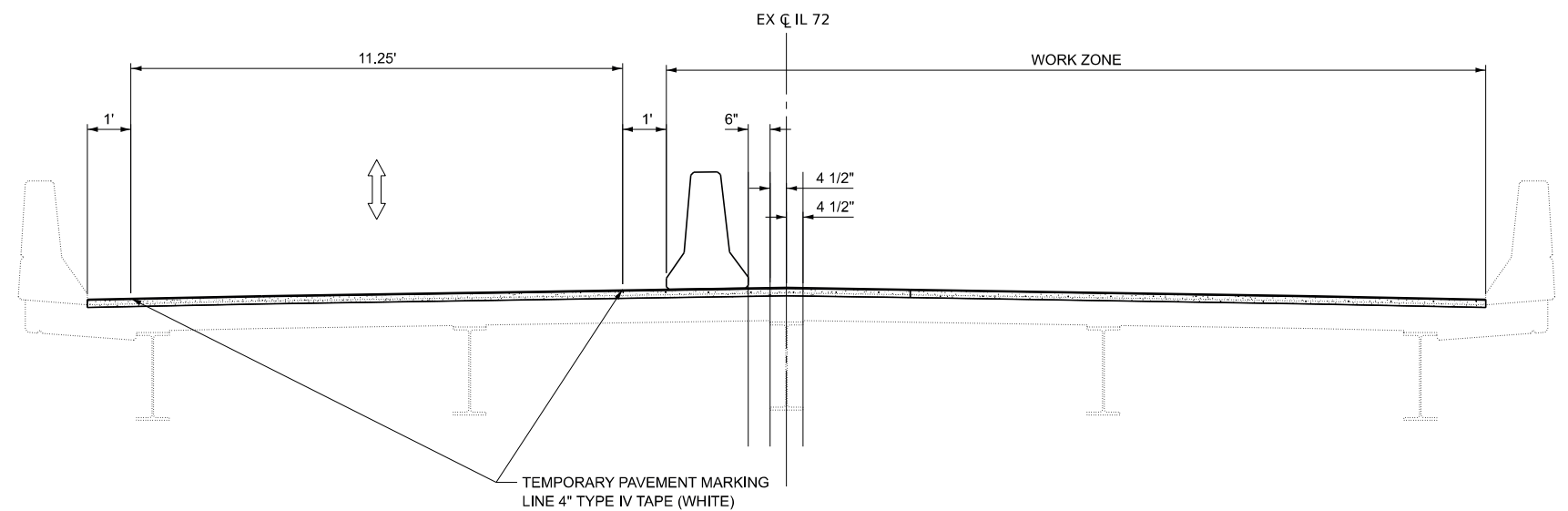
TRAFFIC CONTROL NOTES:

1. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321. TEMPORARY RUMBLE STRIPS, TEMPORARY SIGNING AND TEMPORARY PAVEMENT MARKINGS NOT SHOWN IN THIS DETAIL WILL BE REQUIRED AND SHALL BE INSTALLED AS SHOWN IN STANDARD 701321. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701321.
2. ALL OFFSETS IN THIS DETAIL REFER TO THE EDGE OF BARRIER OR PAVEMENT MARKING LINE NEAREST TO LIVE TRAFFIC. OUTSIDE PAVEMENT MARKING LINE SHALL BE OFFSET 10' PARALLEL.
3. A QUANTITY OF xxxx FEET OF TEMPORARY PAVEMENT MARKING LINE, 6" HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM VERTICAL 6" OF THE TEMPORARY CONCRETE BARRIERS ON BOTH SIDES. COLOR OF MARKING LINE SHALL BE YELLOW.
4. WHERE PERMANENT RRPM ARE PRESENT AND CONFLICT WITH THE REVISED TRAFFIC PATTERNS, ONLY THE REFLECTORS SHALL BE REMOVED.



STAGE 1 CONSTRUCTION

STA 417+80.50 TO STA 418+65.50
(LOOKING EAST)



STAGE 2 CONSTRUCTION

STA 417+80.50 TO STA 418+65.50
(LOOKING EAST)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
SN 071-0037 OVER LEAF RIVER

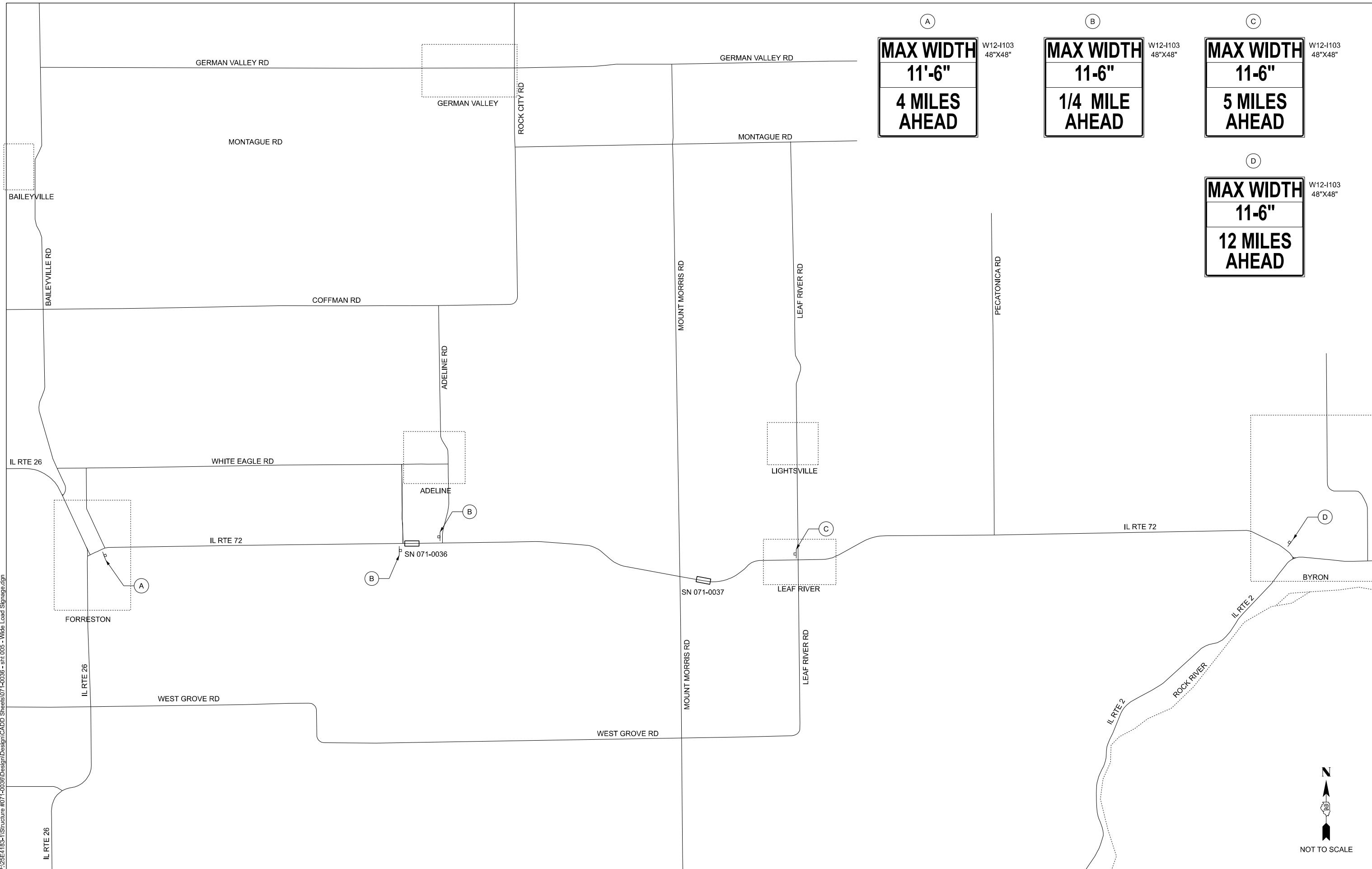
SHEET 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	117 BR-1	OGLE	47	9
CONTRACT NO. 64T07				

ILLINOIS FED. AID PROJECT

USER NAME =	DESIGNED PLD	REVISED -
	CHECKED MBH	REVISED -
PLOT SCALE =	DRAWN GJS	REVISED -
PLOT DATE =	CHECKED WJS	REVISED -

MODEL: Wide Load Signage Plan (Sheet)
 FILE NAME: P:\26E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 - sht.005 - Wide Load Signage.dgn



(A)	(B)	(C)	(D)
MAX WIDTH 11'-6" 4 MILES AHEAD	MAX WIDTH 11-6" 1/4 MILE AHEAD	MAX WIDTH 11-6" 5 MILES AHEAD	MAX WIDTH 11-6" 12 MILES AHEAD
W12-1103 48"X48"	W12-1103 48"X48"	W12-1103 48"X48"	W12-1103 48"X48"



NOT TO SCALE

USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

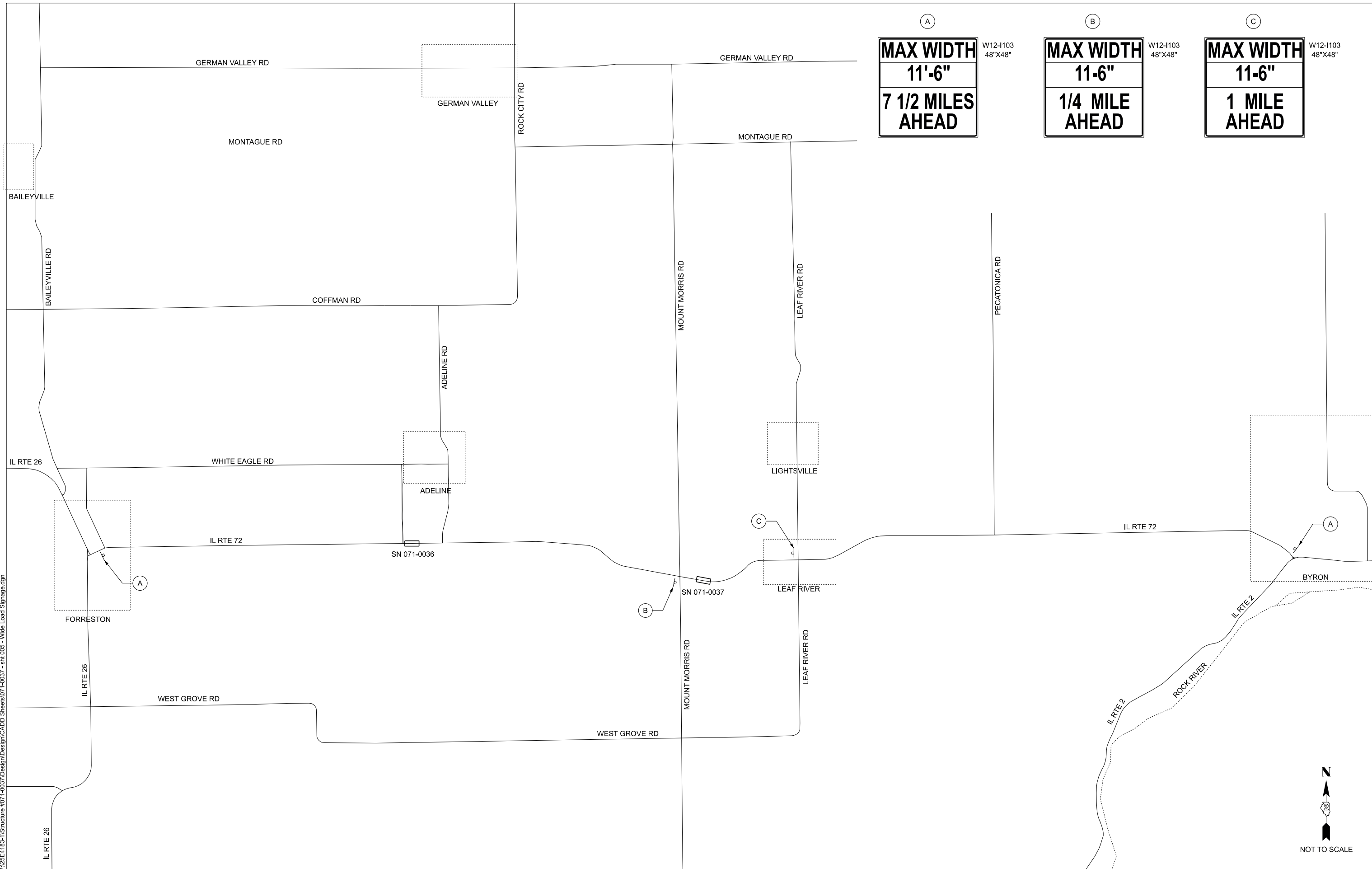
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDE LOAD SIGNING PLAN
071-0036

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116 BR)	OGLE	47	10
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

MODEL: Wide Load Signage Plan (Sheet)
 FILE NAME: P:\26E4183-1\Structure #071-0037\Design\CADD Sheets\071-0037 - sht 005 - Wide Load Signage.dgn



(A)
MAX WIDTH
11'-6"
7 1/2 MILES AHEAD

W12-1103
 48"X48"

(B)
MAX WIDTH
11-6"
1/4 MILE AHEAD

W12-1103
 48"X48"

(C)
MAX WIDTH
11-6"
1 MILE AHEAD

W12-1103
 48"X48"



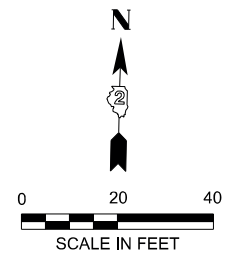
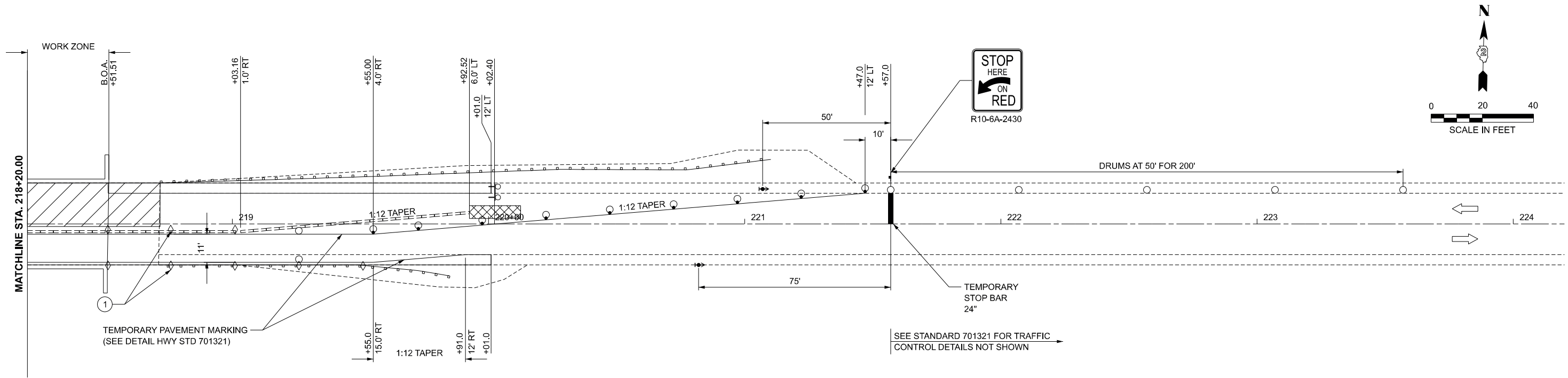
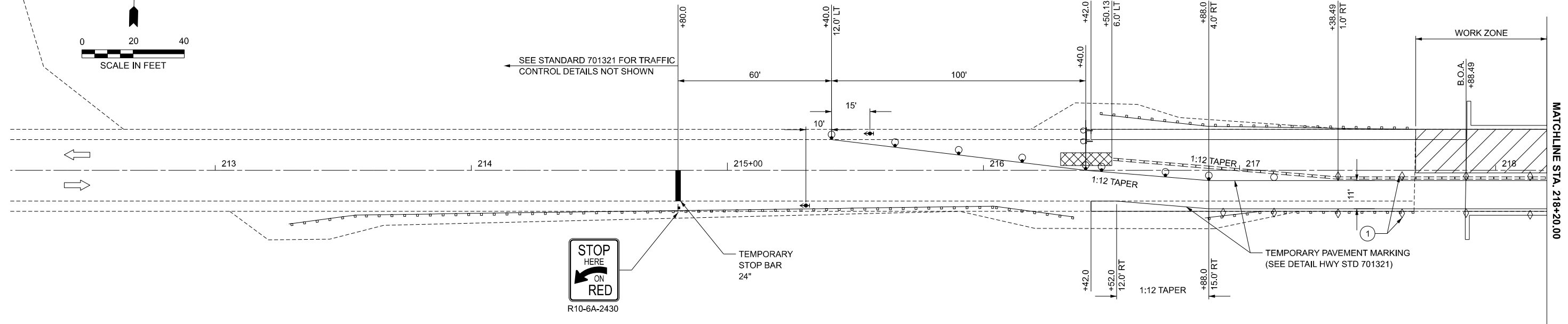
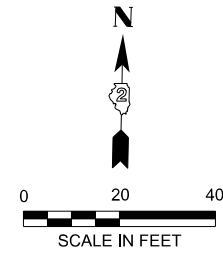
USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 4/1/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDE LOAD SIGNING PLAN
071-0037

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(117BR-1)BDR	OGLE	47	11
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- DRUM
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

- ① GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CENTERS. SEE STANDARD 704001 AND STANDARD 782006.
- ② VERTICAL PANELS AT 25' CENTERS THROUGHOUT LANE SHIFT WHERE GUARDRAIL IS NOT PRESENT.

MODEL: IL72-Plan 1 [Sheet]
FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 - Staging - REVISED.dgn

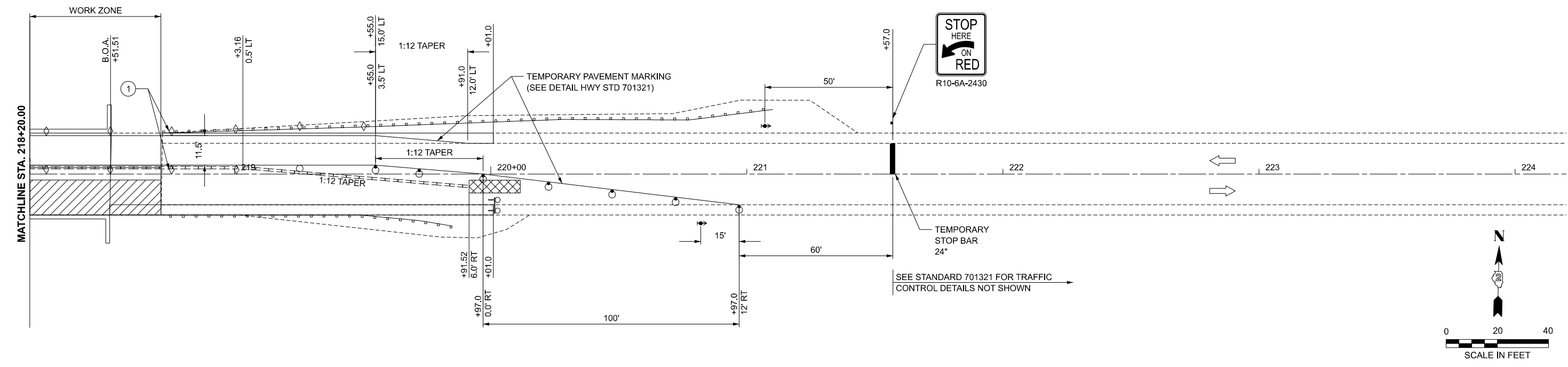
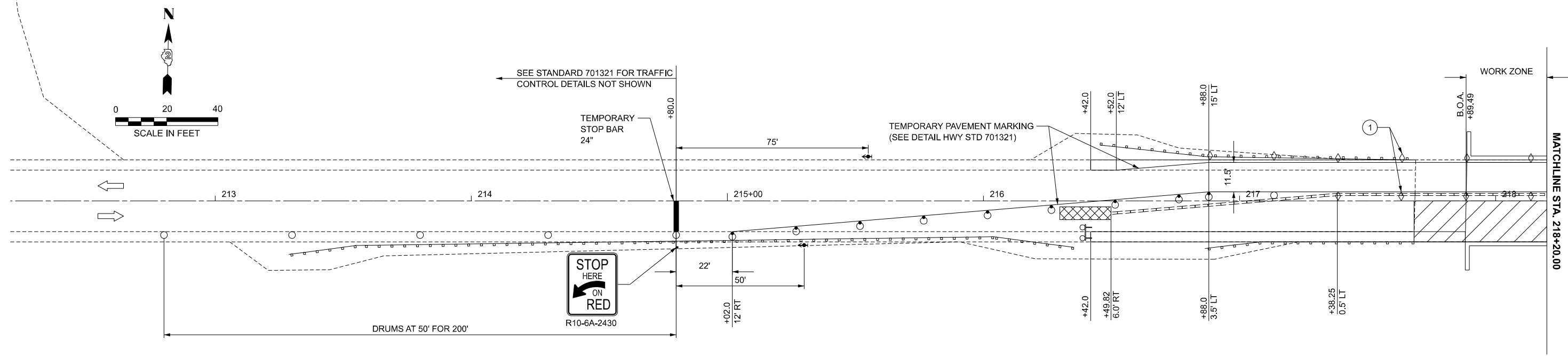
USER NAME = gsturjeon	DESIGNED - GJS	REVISED -	
	DRAWN - GJS	REVISED -	
	CHECKED - WJS	REVISED -	
PLOT DATE = 4/2/2026	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 1 PLANS
SN 071-0036 OVER DRAINAGE DITCH**

SCALE: SHEET Plan 1 OF 2 SHEETS STA. TO STA. 591+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	116 BR	OGLE	47	12
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



- SYMBOLS**
- WORK AREA
 - SIGN
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - TRAFFIC SIGNAL
 - IMPACT ATTENUATOR
 - TEMPORARY CONCRETE BARRIER
 - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
 - DRUM
 - DOUBLE VERTICAL PANEL
 - CRYSTAL BIDIRECTIONAL GUARDRAIL/BARRICADE WALL REFLECTOR

- ① GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CENTERS. SEE STANDARD 704001 AND STANDARD 782006.
- ② VERTICAL PANELS AT 25' CENTERS THROUGHOUT LANE SHIFT WHERE GUARDRAIL IS NOT PRESENT.

MODEL: IL73-Plan 3 [Sheet]
FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 - sht 00X - Staging.dgn

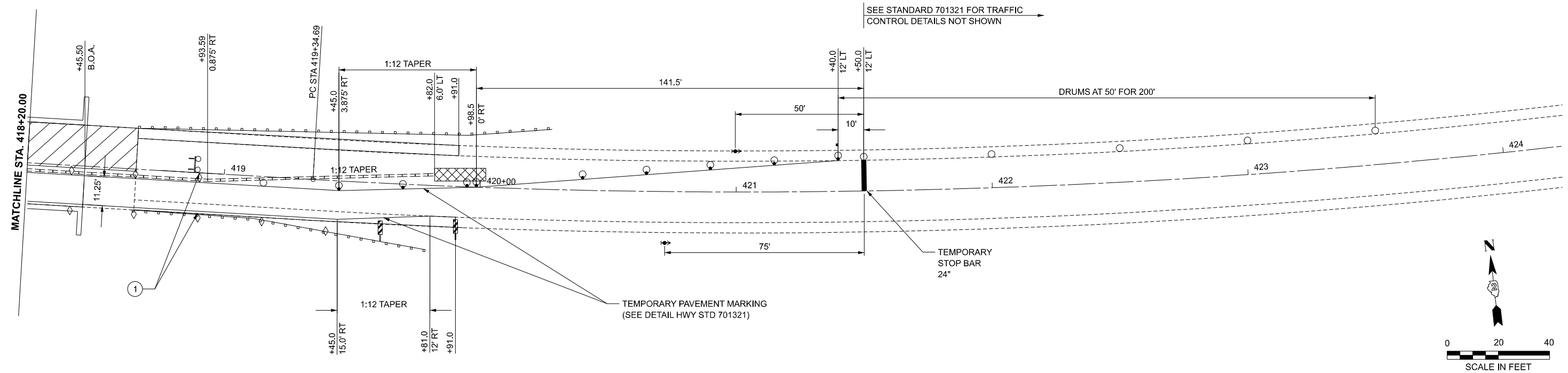
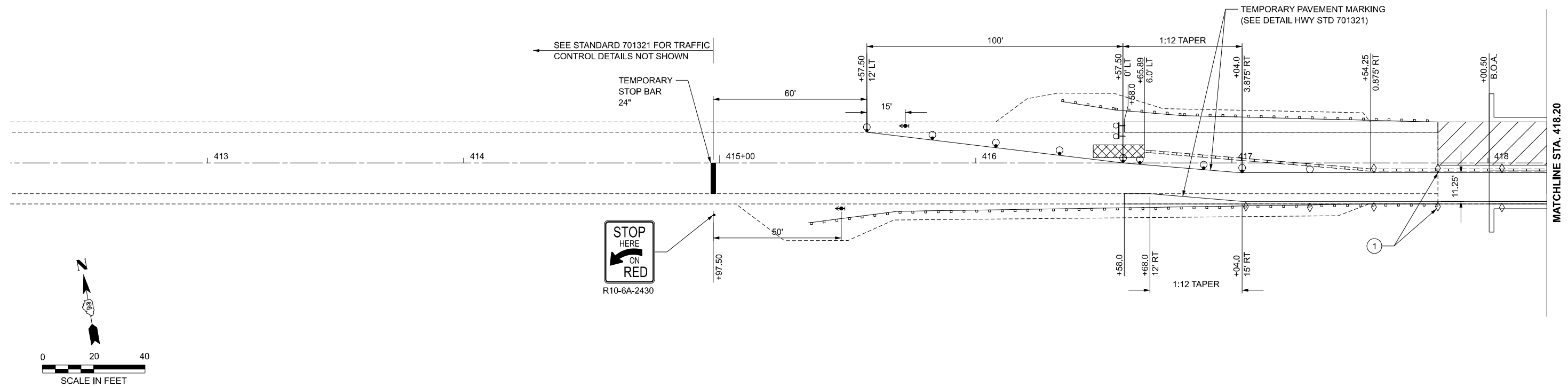
USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 2 PLANS
SN 071-0036 OVER DRAINAGE DITCH**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 579+50.00 TO STA. 591+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	116 BR	OGLE	47	13
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- DRUM
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

- ① GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CENTERS. SEE STANDARD 704001 AND STANDARD 782006.
- ② VERTICAL PANELS AT 25' CENTERS THROUGHOUT LANE SHIFT WHERE GUARDRAIL IS NOT PRESENT.

MODEL: IL72-Plan 3 (Sheet) FILE NAME: P:\25E418-1\Structure #071-0037\Design\CADD Sheets\071-0037_sht 00X - Staging.dgn

USER NAME = gsturjeon	DESIGNED - GJS	REVISED -
	DRAWN - GJS	REVISED -
	CHECKED - WJS	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

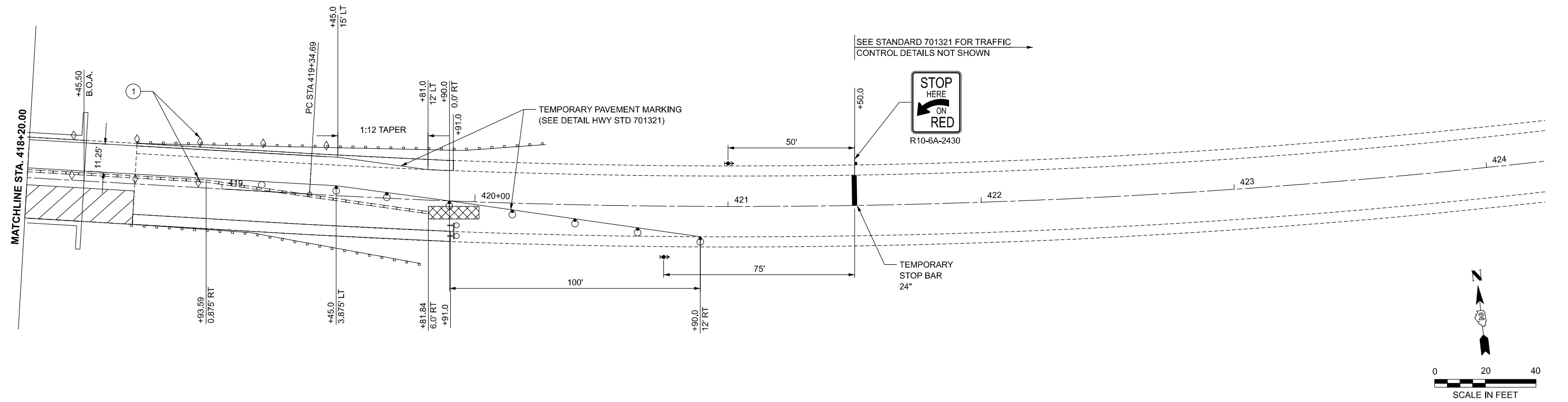
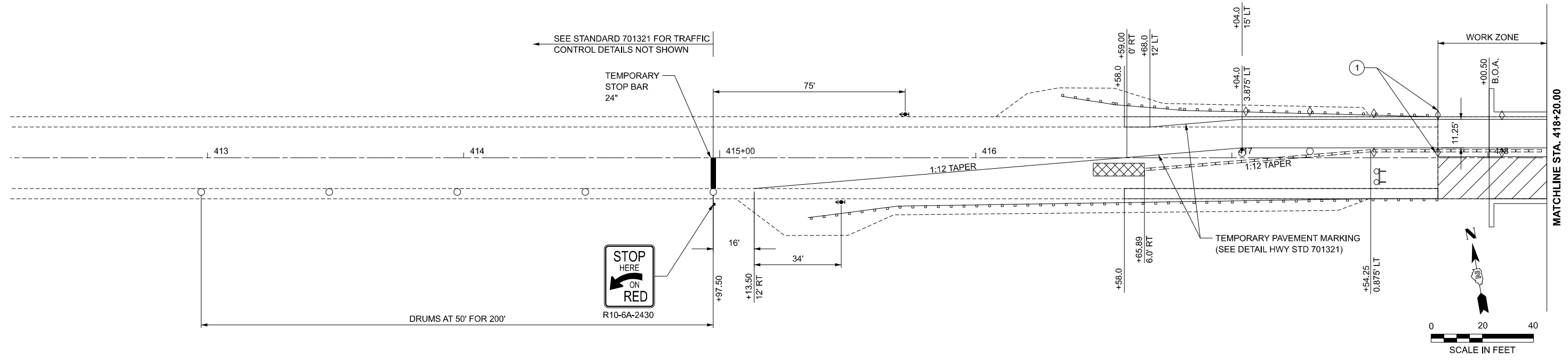
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 1 PLANS
SN 071-0037 OVER LEAF RIVER**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 779+50.00 TO STA. 791+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(117 BR-1)BDR	OGLE	47	14
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

MODEL: IL73-Plan 5 (Sheet)
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SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- DRUM
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

- ① GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CENTERS. SEE STANDARD 704001 AND STANDARD 782006.
- ② VERTICAL PANELS AT 25' CENTERS THROUGHOUT LANE SHIFT WHERE GUARDRAIL IS NOT PRESENT.

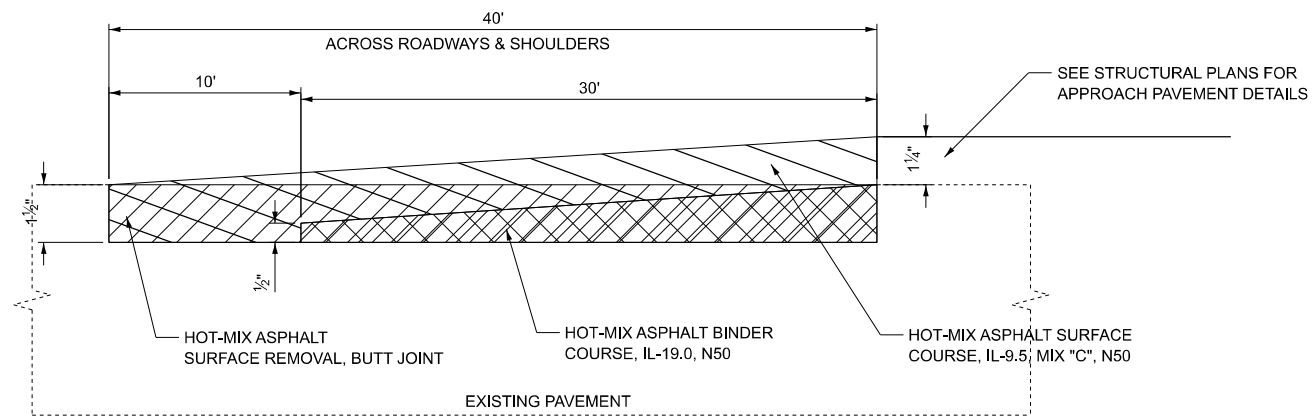
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PLOT DATE = 4/2/2026	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 2 PLANS
SN 071-0037 OVER LEAF RIVER**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 779+50.00 TO STA. 791+50.00

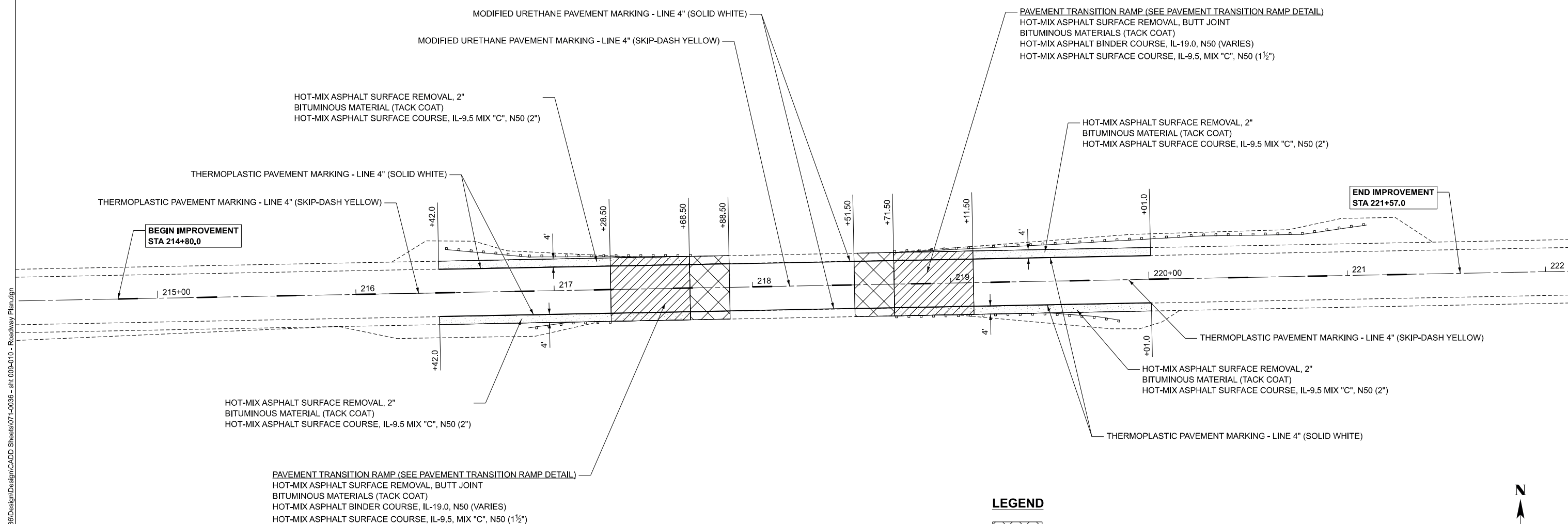
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CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



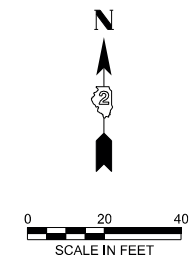
PAVEMENT TRANSITION RAMP DETAIL

STA 217+28.50 TO STA 217+68.50
 STA 218+71.50 TO STA 219+11.50

NOTE:
 PRE-STAGE - SHOULDER REPAVING
 POST STAGE - PAVEMENT TRANSITION RAMP
 - PERMENT PAVEMENT MARKING



- LEGEND**
- BRIDGE APPROACH PAVEMENT
 - PAVEMENT TRANSITION RAMP
 - SHOULDERS



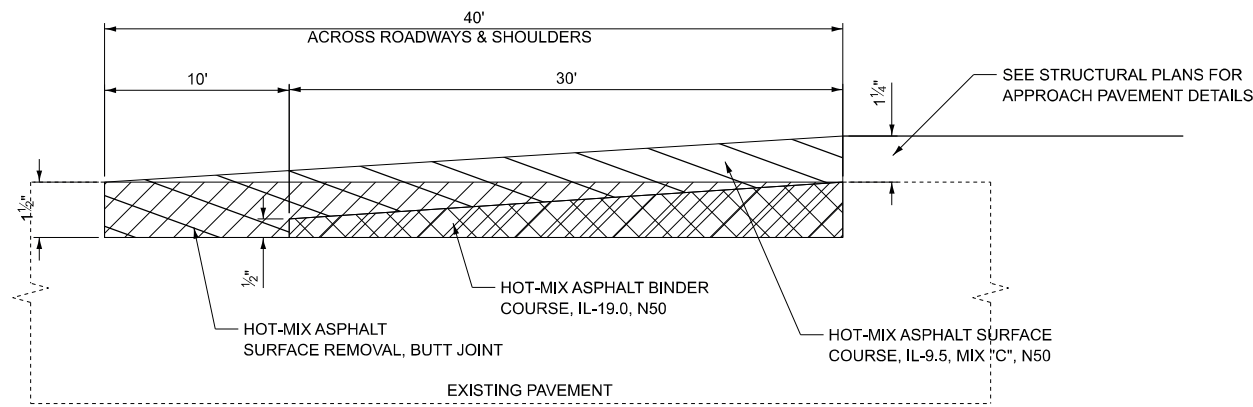
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PLOT DATE = 4/2/2026	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
SN 071-0036 OVER DRAINAGE DITCH			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

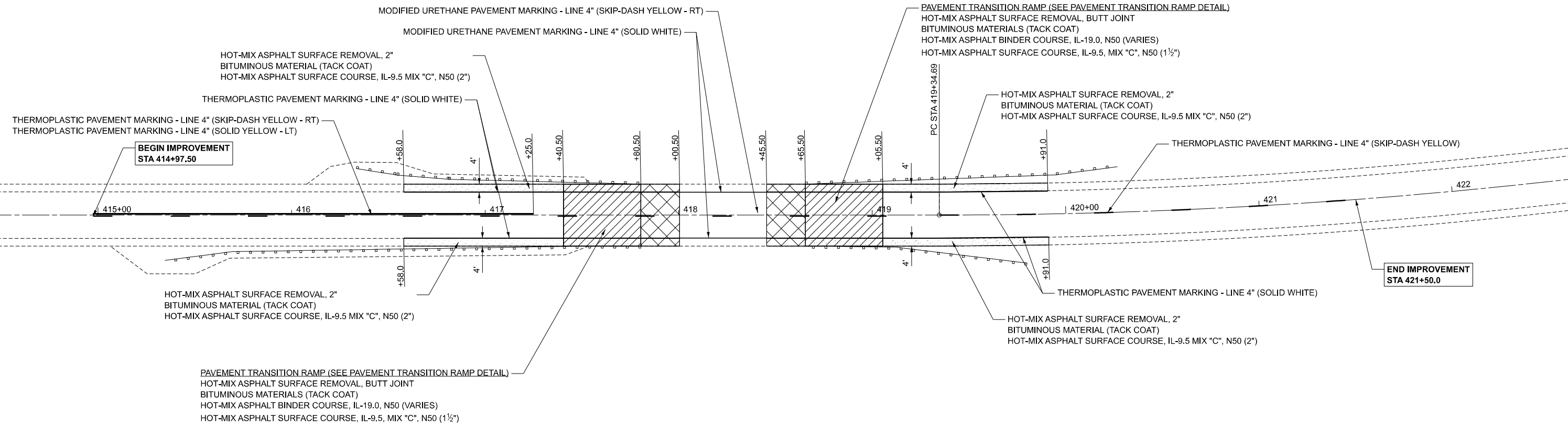
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CONTRACT NO. 64T07				
		ILLINOIS	FED. AID PROJECT	



PAVEMENT TRANSITION RAMP DETAIL

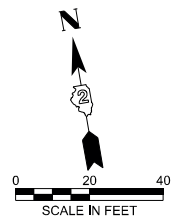
STA 417+40.50 TO STA 417+80.50
STA 418+65.50 TO STA 419+05.50

NOTE:
PRE-STAGE - SHOULDER REPAVING
POST STAGE - PAVEMENT TRANSITION RAMP
- PERMENT PAVEMENT MARKING



LEGEND

- BRIDGE APPROACH
- PAVEMENT TRANSITION RAMP
- SHOULDERS



MODEL: SN 0037 (Sheet)
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

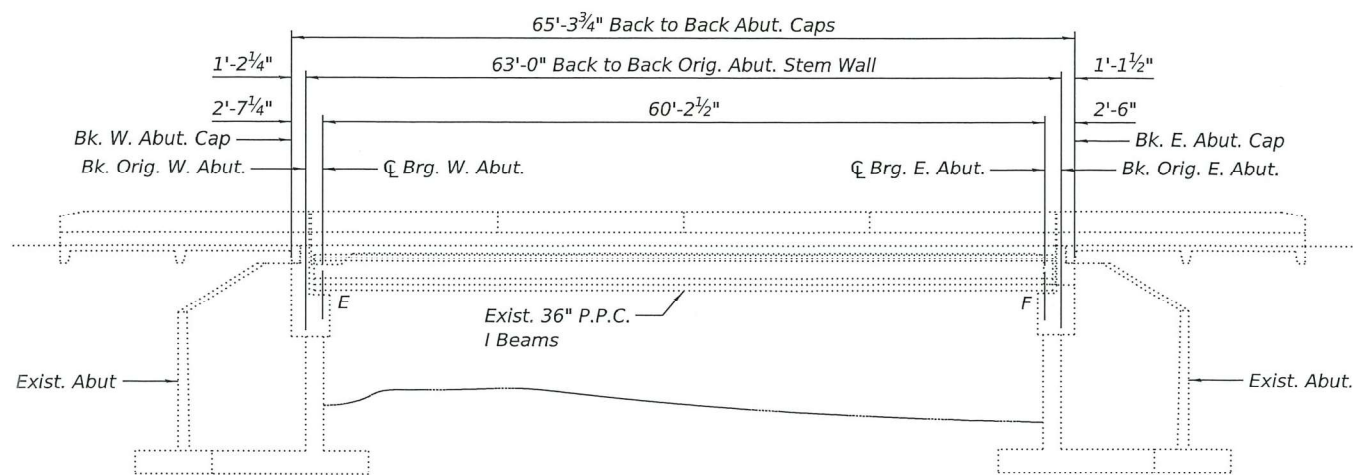
**ROADWAY PLAN
SN 071-0037 OVER LEAF CREEK**

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

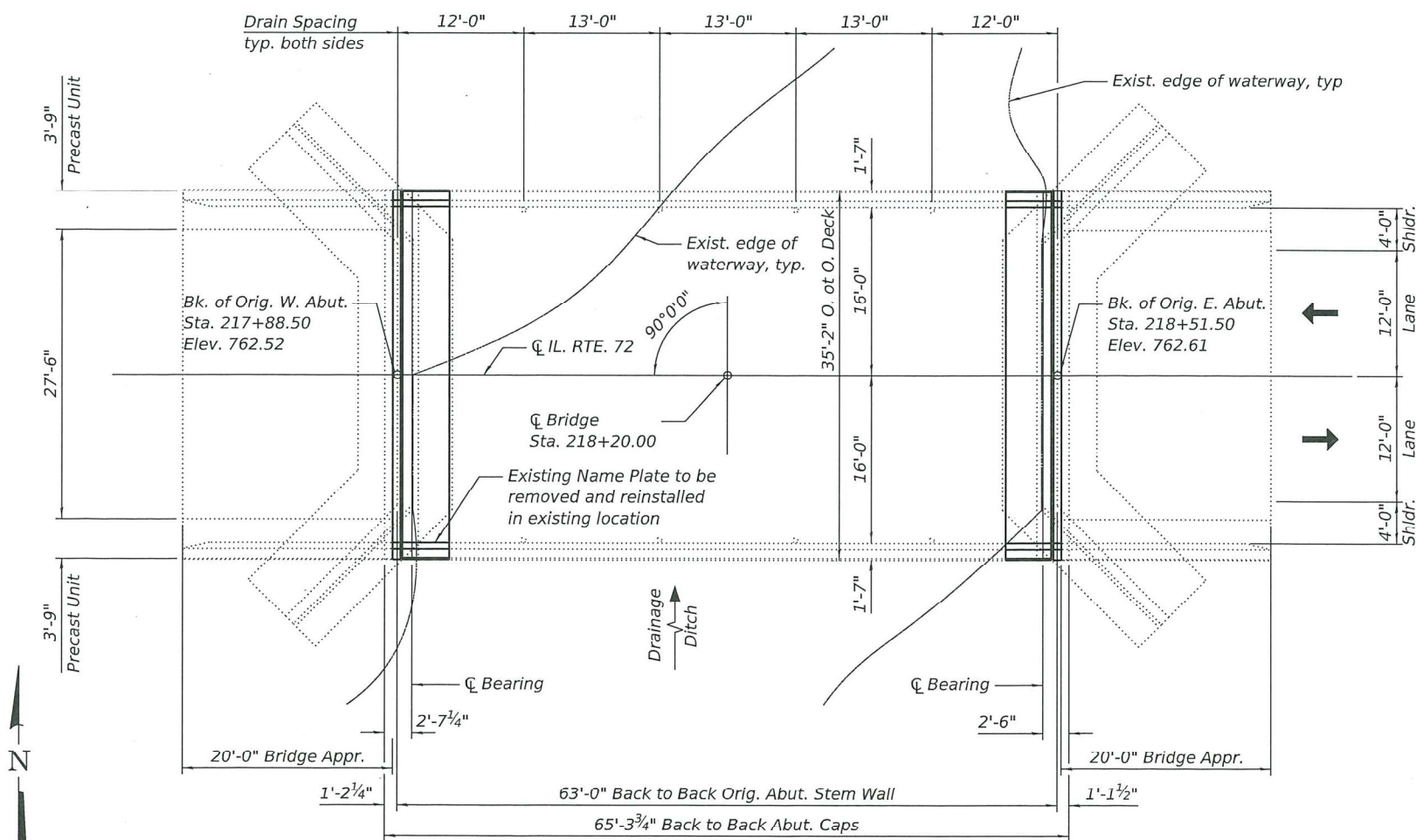
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549	(117 BR-1)BDR	OGLE	47	17
CONTRACT NO. 64T07				
		ILLINOIS	FED. AID PROJECT	

Existing Structure: Structure 071-0036 was constructed in 1928 and rehabilitated in 1984 as part of project BHF-549(4). The existing structure consist of a single span superstructure with 36" P.P.C I beams and 7½" concrete deck. The bridge is 63'-0" from back to back of original abutment. The overall bridge width is 35'-2" out to out with 32'-0" roadway width. The bridge has no skew. The substructure consist of reinforced concrete bent abutments and a spread footing foundation.

Traffic to be maintained utilizing stage construction.



ELEVATION



PLAN

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Temporary Concrete Barrier
- 4 Deck Repair
- 5 Joint Removal and Replacement Details
- 6 Joint Removal and Replacement Details
- 7 Joint Removal and Replacement Details
- 8 Joint Removal and Replacement Details
- 9 Repair Details
- 10 Bar Splicer Assembly and Mechanical Splicer Details

SCOPE OF WORK

- 1. Perform ¾" bridge deck scarification.
- 2. Fill voids below approach slab precast units.
- 3. Perform concrete repair on abutments.
- 4. Remove and replace expansion joint at abutments.
- 5. Place 2¼" bridge deck latex overlay.
- 6. Perform ¼" diamond grinding on deck overlay.
- 7. Perform bridge deck grooving (longitudinal) on deck overlay.
- 8. Apply protective coat to deck and parapets.

DESIGN SPECIFICATIONS (EXIST.)

1977 AASHTO with 1978 thru 1983 Interim Specifications

DESIGN STRESSES (EXIST.)

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fs = 20,000 psi (Structural) M-183

PRECAST UNITS

f'c = 4,500 psi
 fc = 1800 psi
 fs = 20,000 psi
 n = 8

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
 fcl = 4800 psi
 fs = 270,000 psi (½Ø strands)
 fsl = 189,000 psi (½Ø strands)

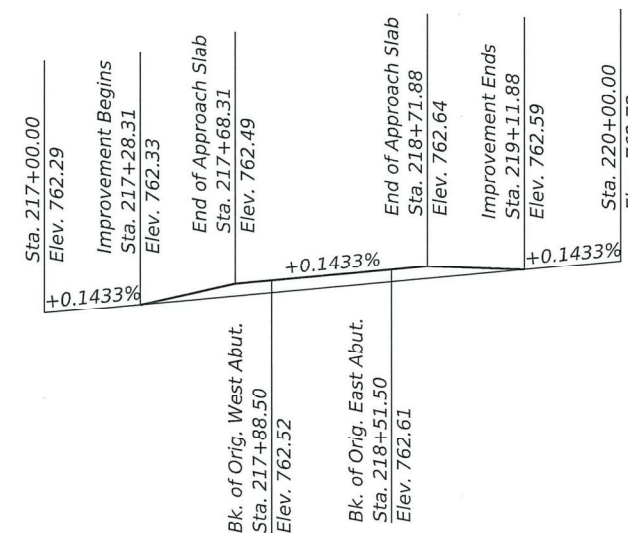
DESIGN STRESSES (NEW CONST.)

FIELD UNITS

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 fc = 3,500 psi (Substructure)
 fy = 60,000 psi (Reinforcement)

LOADING HS20-44

Existing

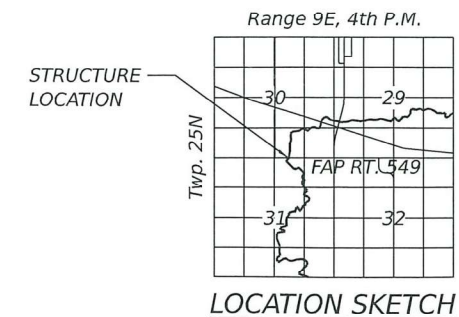
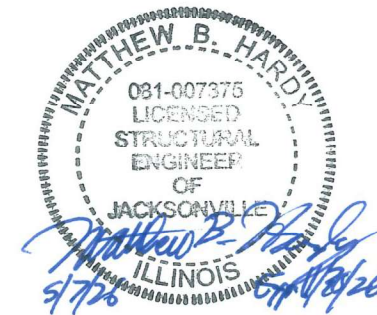


PROFILE GRADE

(Along C IL 72)

For information only

Up to ¼ inch to be ground off the bridge deck and the bridge approach slabs. The Profile Grade shows the final grade after grinding.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
 IL RT. 72 OVER DRAINAGE DITCH
 FAP RT. 549 SECTION (116BR)&(117BR-1)BDR
 OGLE COUNTY
 STATION 218+20
 STRUCTURE NO. 071-0036

MODEL: Sheet 1
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	CHECKED MBH	REVISED -
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PLOT DATE = 5/8/2026	CHECKED MBH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 SN 071-0036 OVER DRAINAGE DITCH

SHEET 1 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	18
			CONTRACT NO. 64T07	
			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to the existing structure have been taken from existing plans and 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.

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 at the contractor's expense.

The minimum thickness of the concrete overlay shall be 2 1/4" and varies as required to adjust for the existing profile grade and beam chamber.

The Contractor shall use extreme care during concrete removal so as to not damage the PPC I-Beam.

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

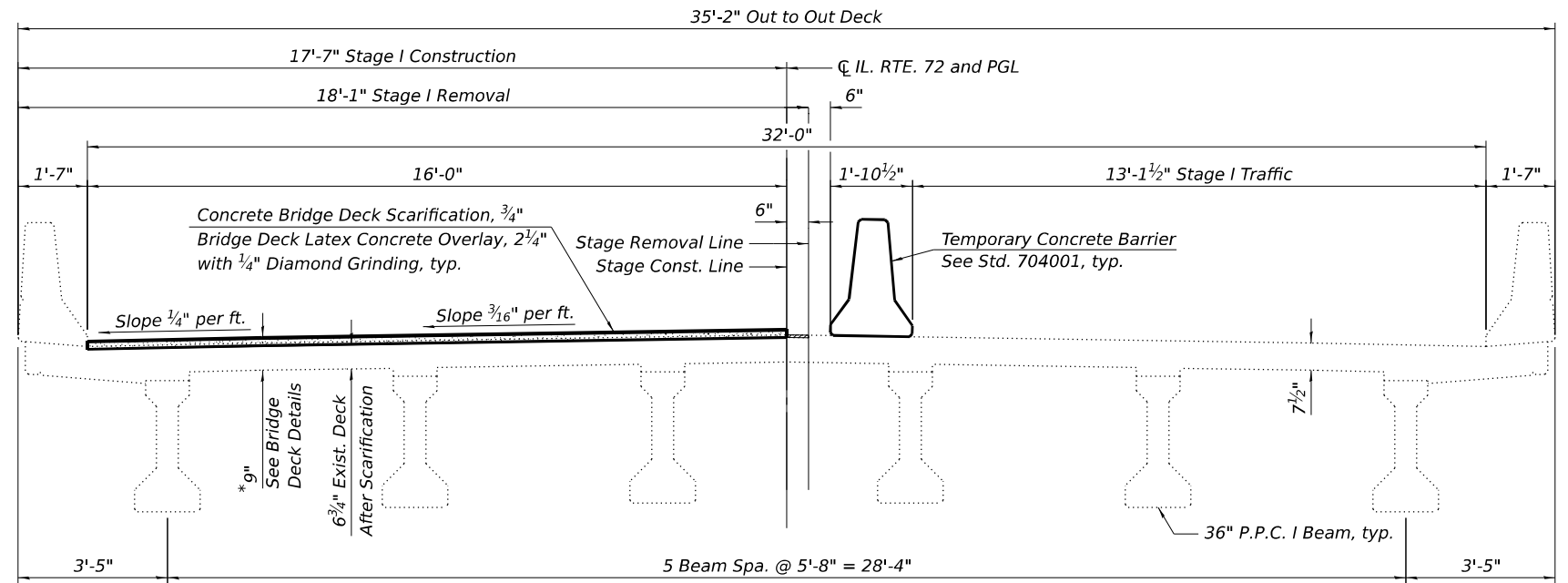
Areas of repairs shown are estimated. The Engineer shall show actual locations and size of repairs on As-built Plans.

Protective coat shall be applied to the top surface of the concrete overlay and to the concrete at the proposed joint replacement. It shall also be applied to the top and inside vertical faces of new and existing parapet.

The Contractor shall exercise care during removal of existing joints to ensure that the deck slab, beams, girders, and diaphragms integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the deck slab, beams, girders, and diaphragms caused by their operation as directed by the Engineer at no additional cost to the Department.

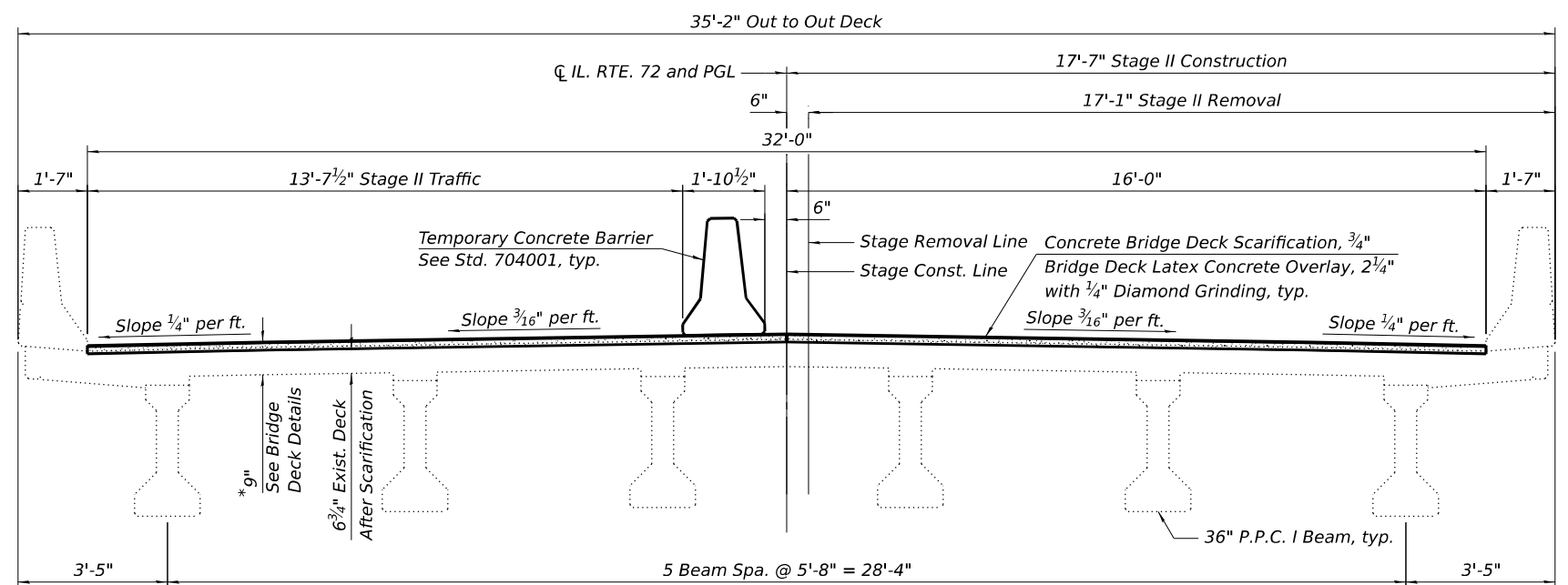
Stage construction shall be utilized to maintain traffic during construction.

All structural steel shall conform to AASHTO Classification M-270 Gr. 36 unless otherwise noted.



* Prior to 1/4" Diamond Grinding

STAGE I CROSS SECTION
Looking East



* Prior to 1/4" Diamond Grinding

STAGE II CROSS SECTION
Looking East

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	CU YD	18.5		18.5
Concrete Superstructure	CU YD	19.9		19.9
Protective Coat	SQ YD	450		450
Reinforcement Bars, Epoxy Coated	POUND	3870		3870
Bar Splicers	EACH	44		44
Performed Joint Strip Seal	FOOT	68		68
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	SQ YD	331		331
Bridge Deck Scarification 3/4"	SQ YD	331		331
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT		6	6
Controlled Low-Strength Material	CU YD		13.6	13.6
Bridge Deck Grooving (Longitudinal)	SQ YD	276		276
Diamond Grinding (Bridge Section)	SQ YD	322		322
Joint Repair	EACH	6		6
Precast Prestressed Concrete I-Beam Repair	SQ FT		3	3
Relocating Name Plates	EACH	1		1

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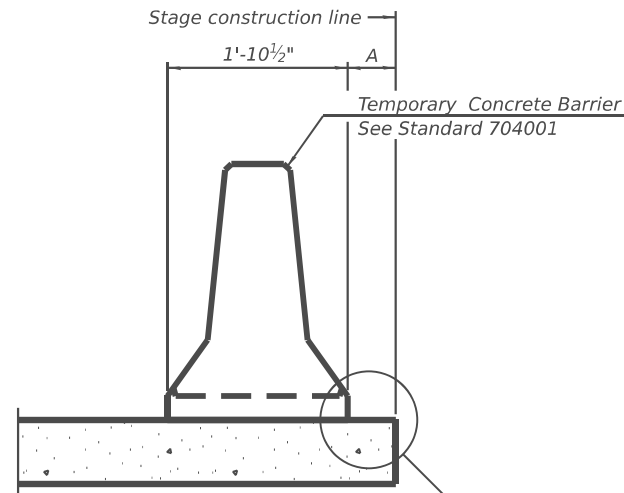
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
SN 071-0036 OVER DRAINAGE DITCH

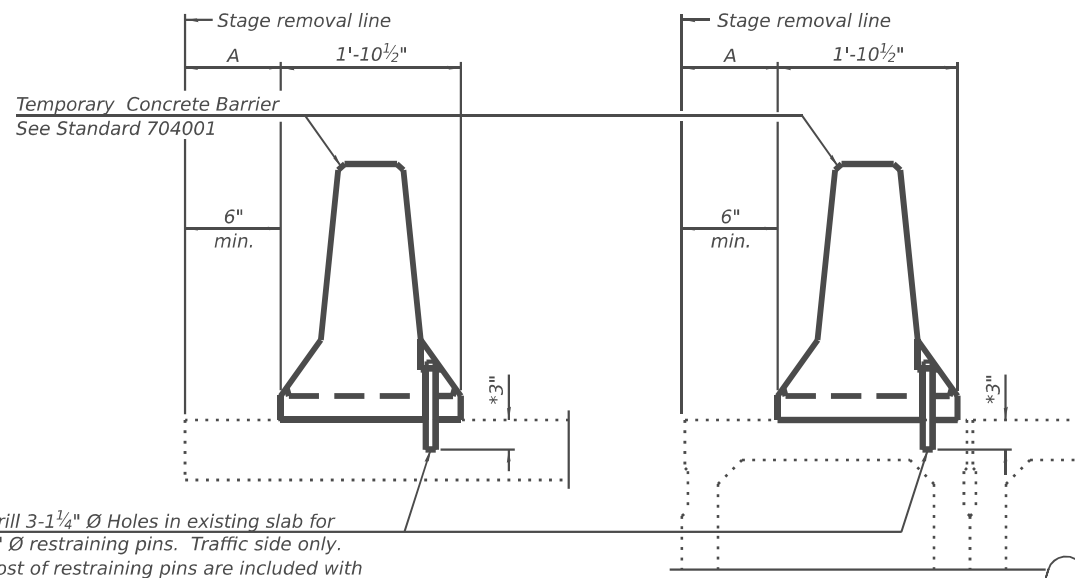
SHEET 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	19
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



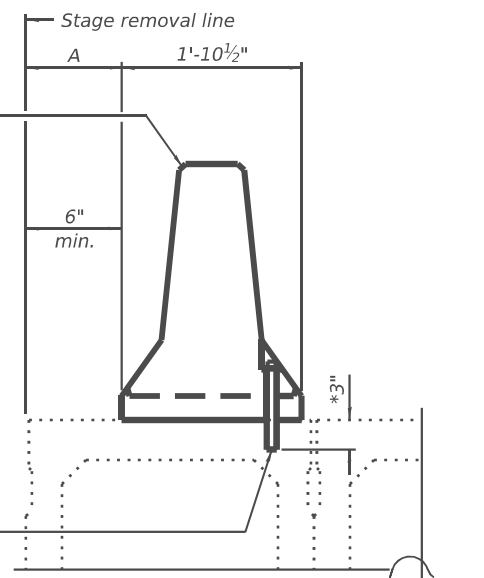
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



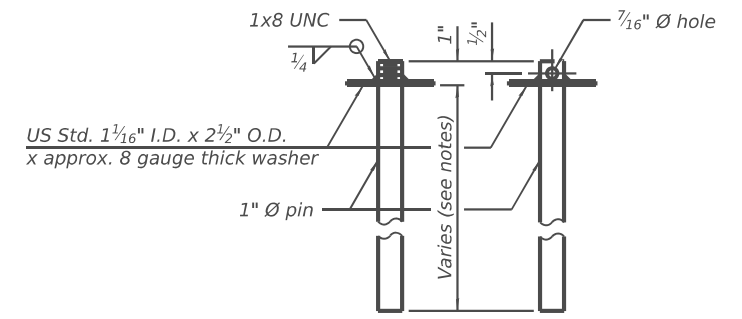
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



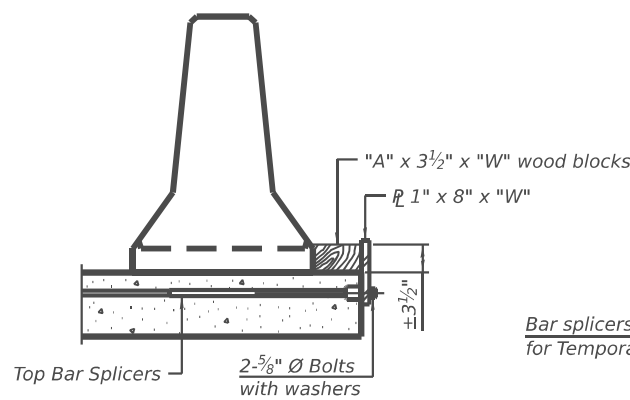
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

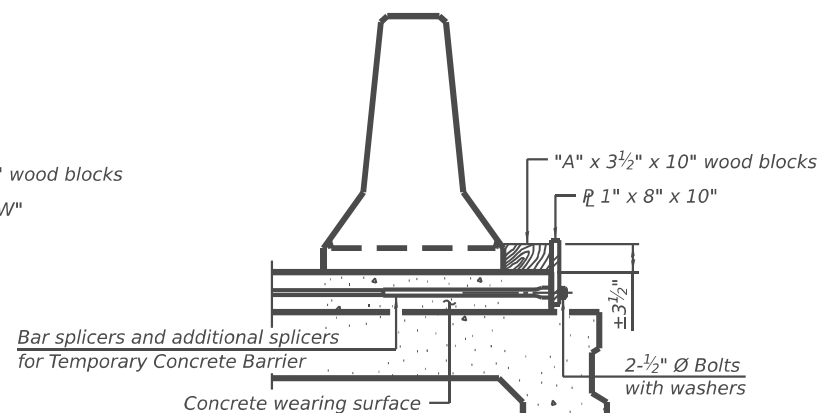


RESTRAINING PIN

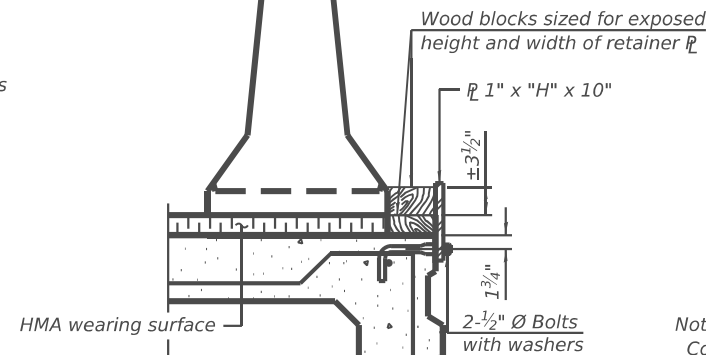
SECTIONS THRU SLAB OR DECK BEAM



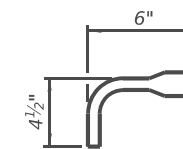
DETAIL I



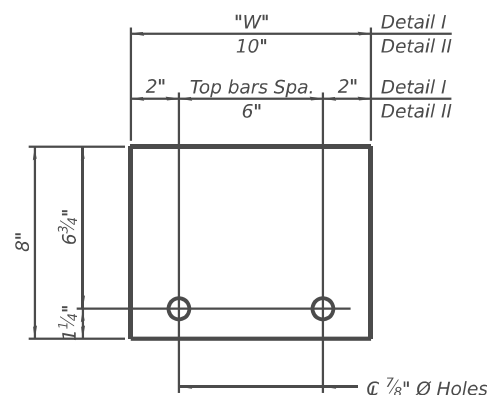
DETAIL II



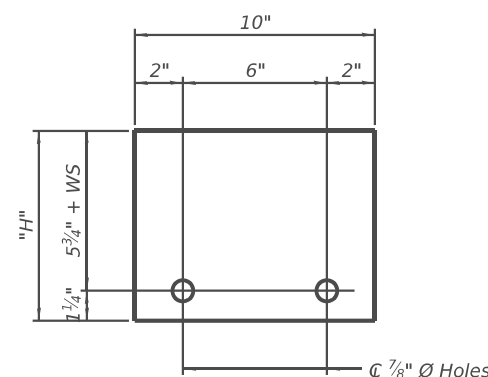
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

MODEL: Sheet 1
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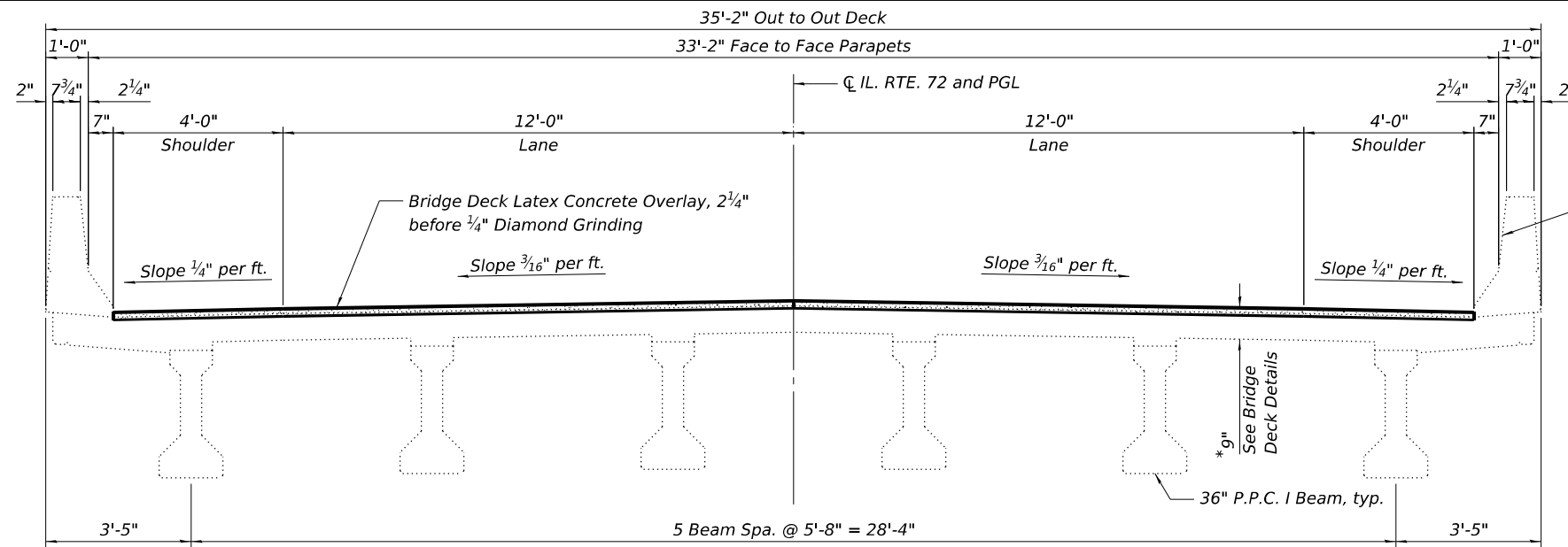


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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

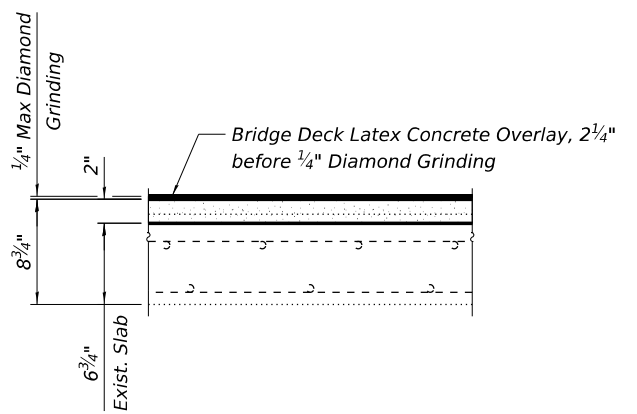
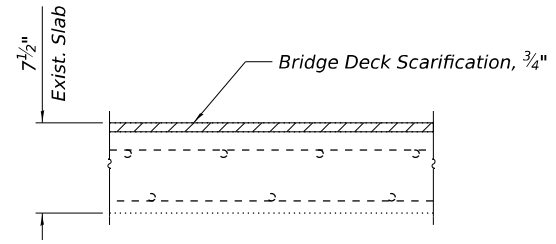
**TEMPORARY CONCRETE BARRIER
 SN 071-0036 OVER DRAINAGE DITCH**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	20
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



LEGEND (CROSS SECTIONS)

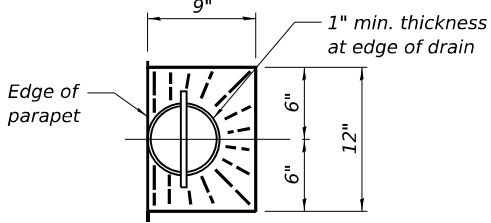
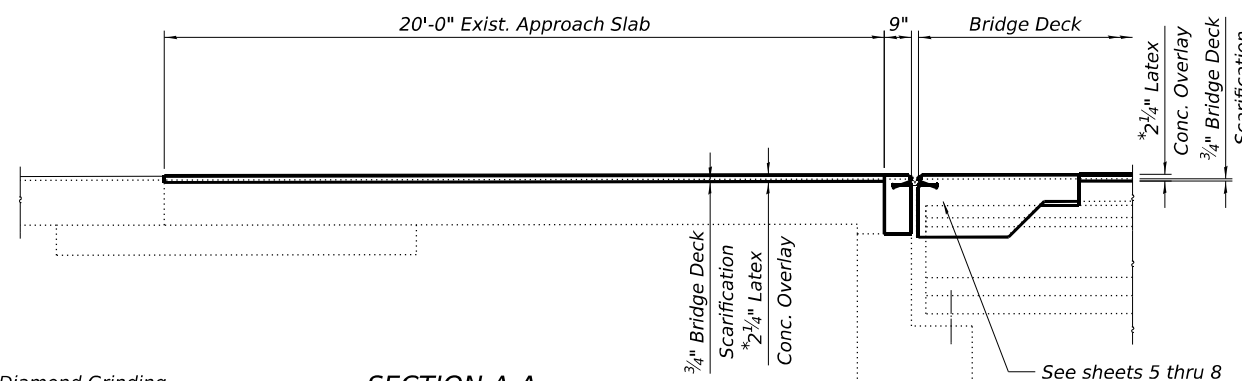
- Bridge Deck Scarification, 3/4"
- Bridge Deck Latex Concrete Overlay, 2 1/4"



BILL OF MATERIAL

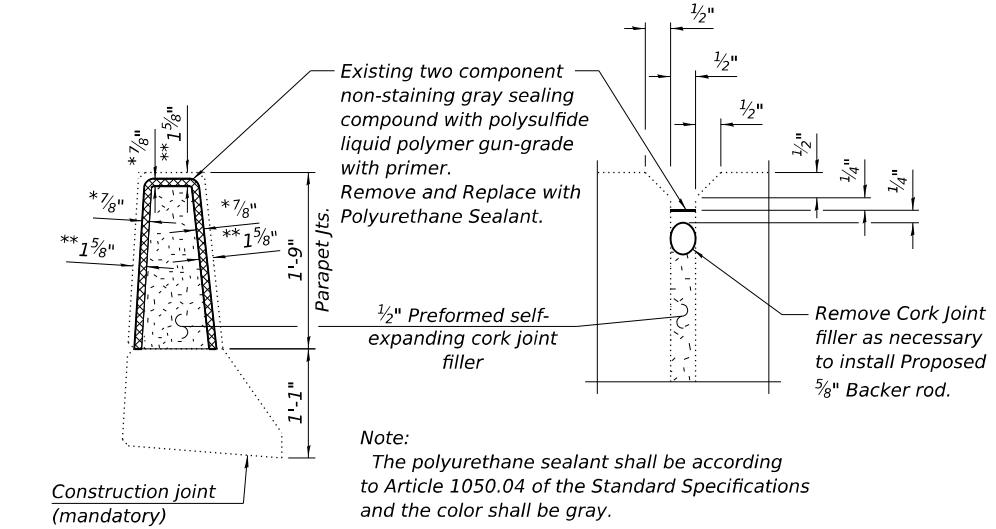
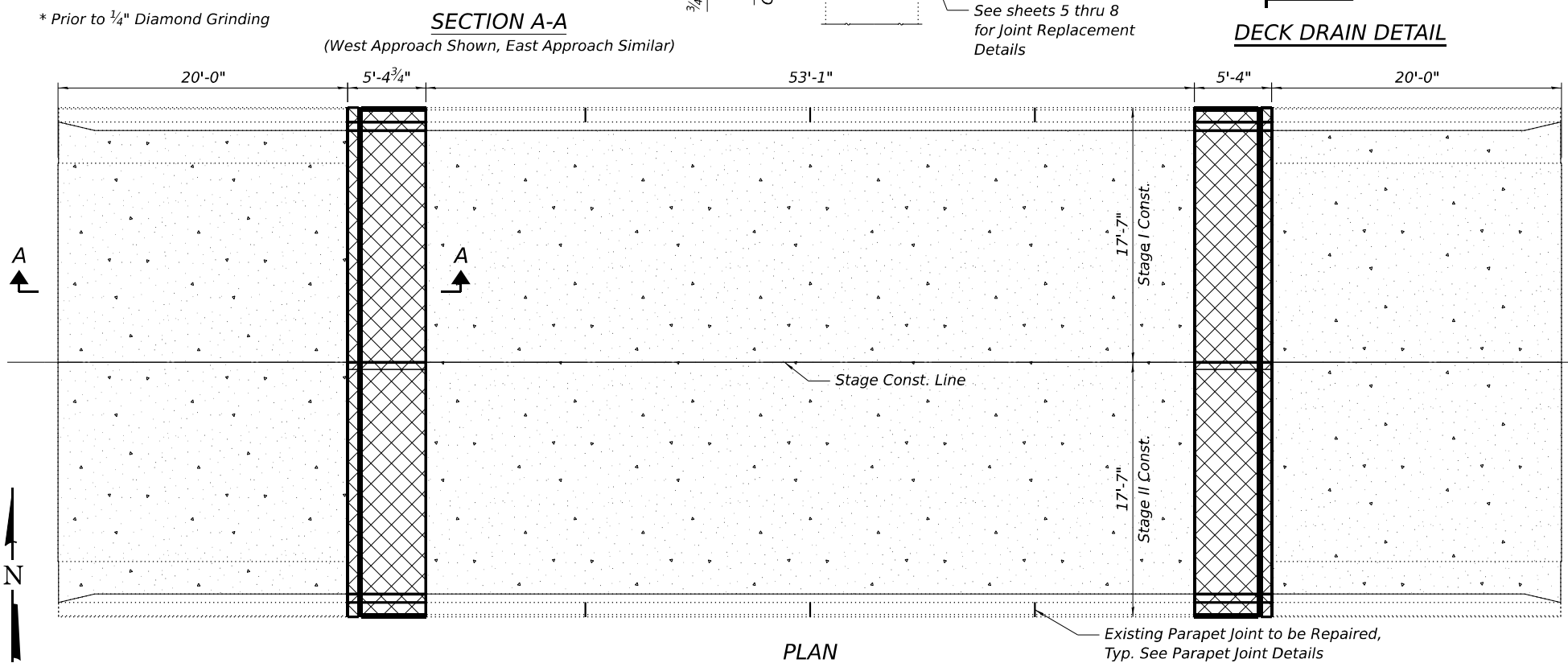
ITEM	UNIT	TOTAL
Protective Coat	SQ YD	450
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	SQ YD	331
Bridge Deck Scarification 3/4"	SQ YD	331
Bridge Deck Grooving (Longitudinal)	SQ YD	276
Diamond Grinding (Bridge Section)	SQ YD	322
Joint Repair	Each	6
Relocating Name Plates	Each	1

Notes:
Protective coat shall be applied to the top surface of the concrete overlay and to the concrete at the proposed joint replacement. It shall also be applied to the top and inside vertical faces of new and existing parapet.



EXISTING DECK CROSS SECTION DETAIL

PROPOSED DECK CROSS SECTION DETAIL



PARAPET JOINT DETAILS

LEGEND (PLAN VIEW)

- Bridge Deck Scarification, 3/4"
- Bridge Deck Latex Concrete Overlay, 2 1/4"
- Joint Removal and Replacement See Sheets 5 thru 8 of 10

MODEL: Sheet 1
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BENTON ENGINEERING
ILLINOIS DESIGN PROFESSIONAL ENGINEERS
JACKSONVILLE, FLORIDA
MEMBER OF THE BENTON GROUP

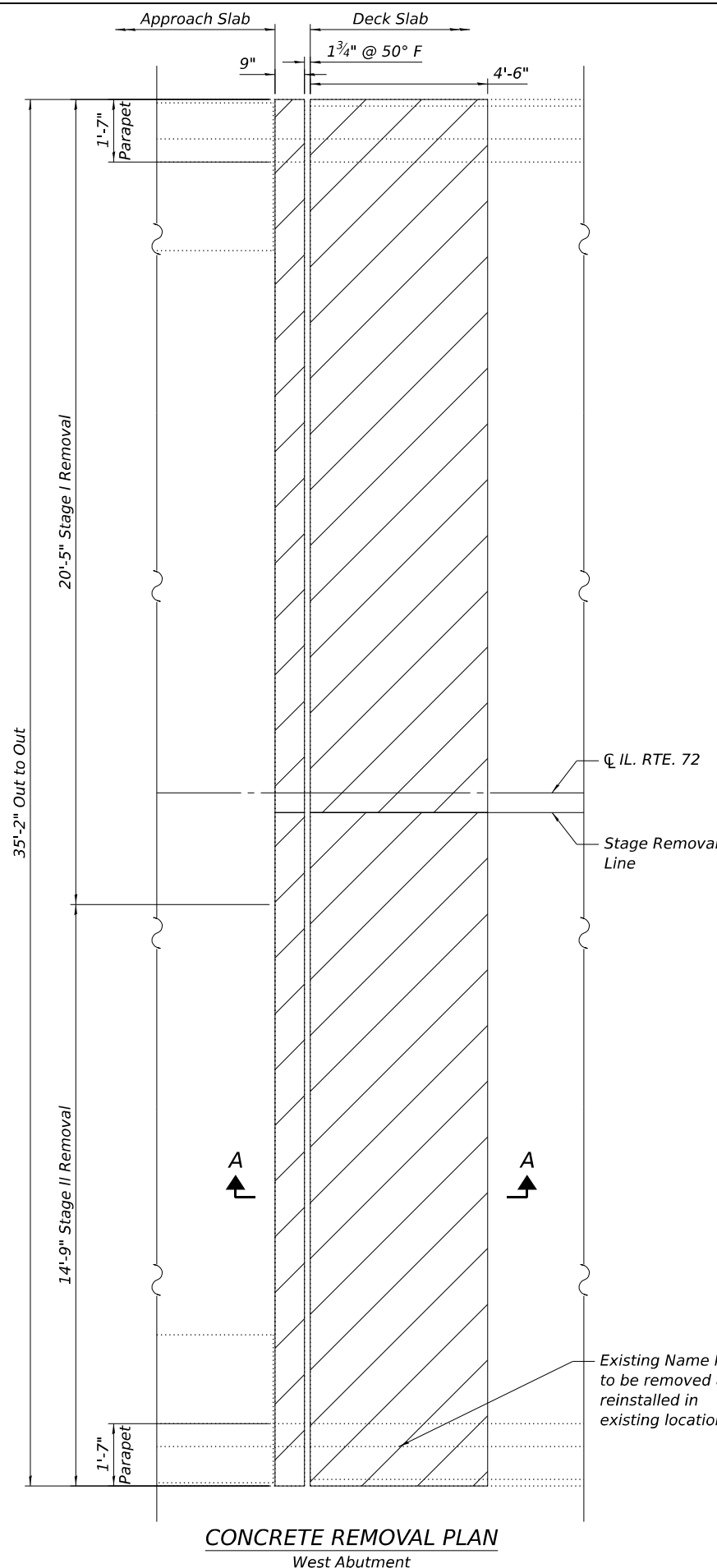
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

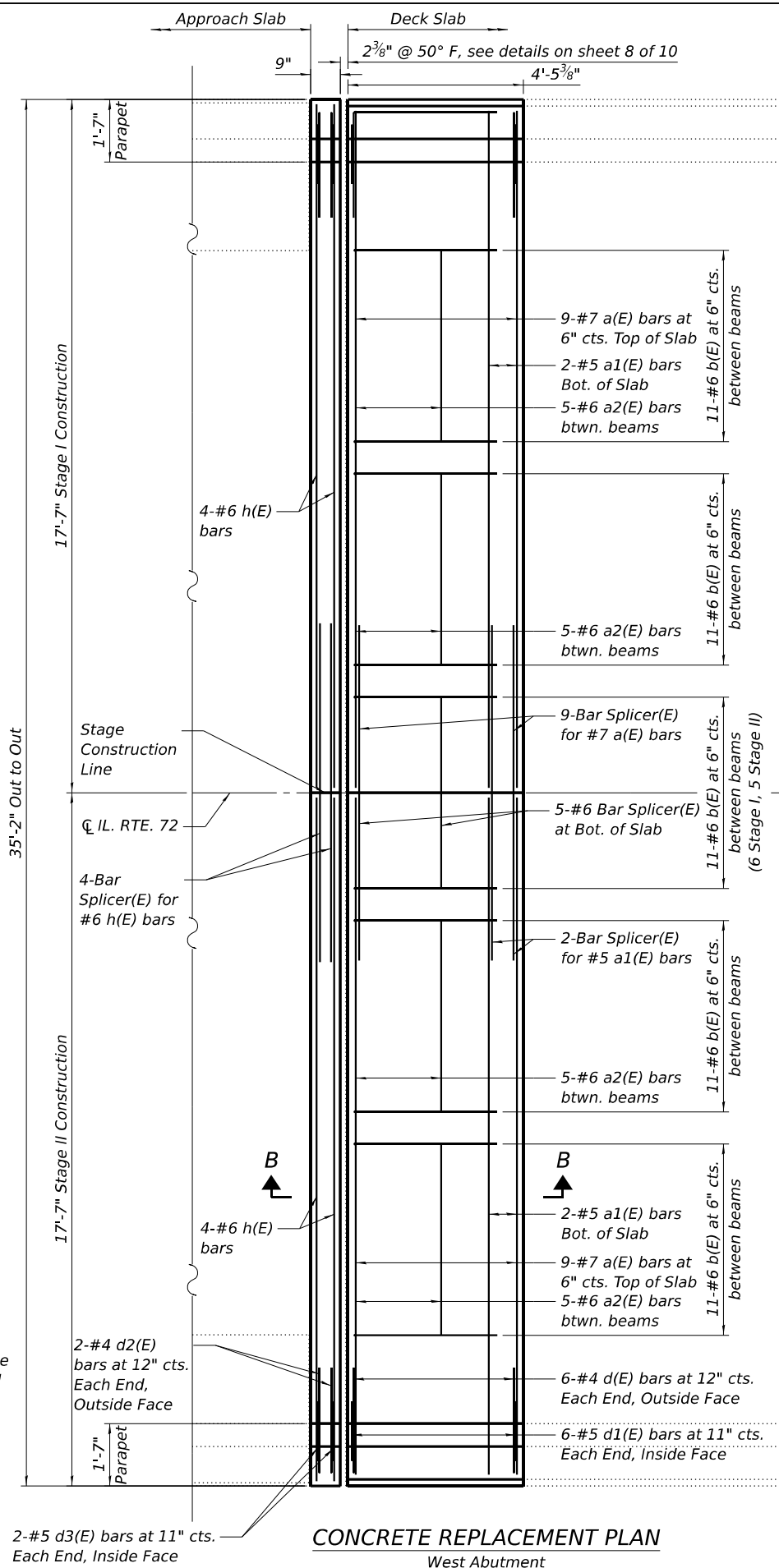
DECK REPAIR SN 071-0036 OVER DRAINAGE DITCH

SHEET 4 OF 10 SHEETS

F.A.P. RTE. 549	SECTION (116BR)&(117BR-1)BDR	COUNTY OGLE	TOTAL SHEETS 47	SHEET NO. 21
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

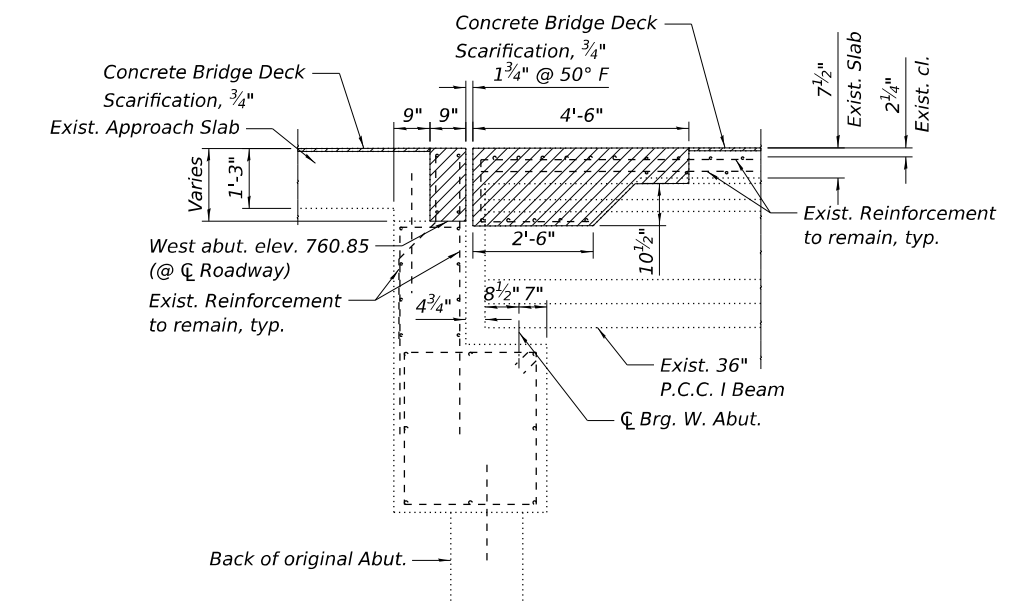


CONCRETE REMOVAL PLAN
West Abutment

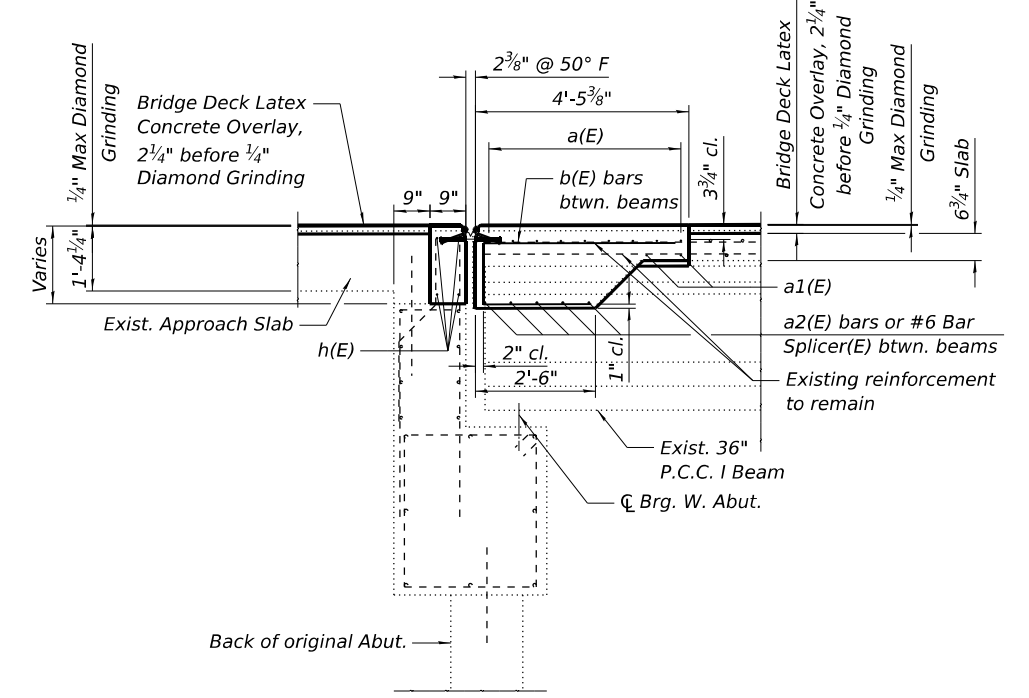


CONCRETE REPLACEMENT PLAN
West Abutment

Notes:
 Existing reinforcement shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
 Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system at the Contractor's expense.
 Removal of existing joint system is included with Concrete Removal. See Sheet 7 of 10 for Section Thru Parapet and Bill of Material.
 Dimensions are based on a Rolled Rail Strip Seal Joint. If the contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on sheet 8 of 10.
 Concrete at Joint Replacement areas to receive 1/4" Diamond Grinding at the same time as the Bridge Deck Latex Concrete Overlay.



SECTION A-A



SECTION B-B

LEGEND



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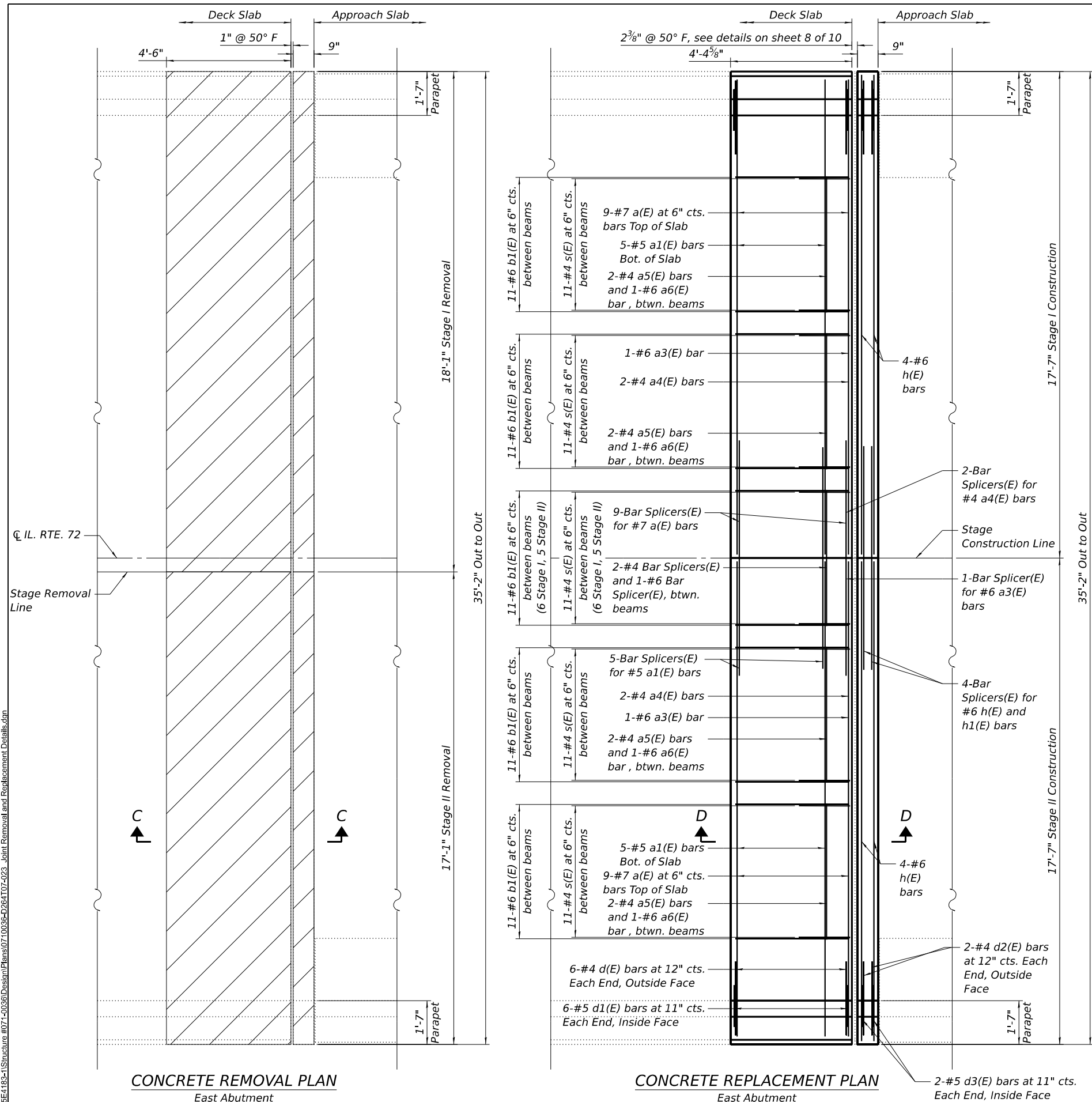
BENTON ENGINEERING
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 JACKSONVILLE, FLORIDA

USER NAME = clocher	DESIGNED PLD	REVISIONS
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PLOT DATE = 5/8/2026	DRAWN PLD	2
	CHECKED MBH	3

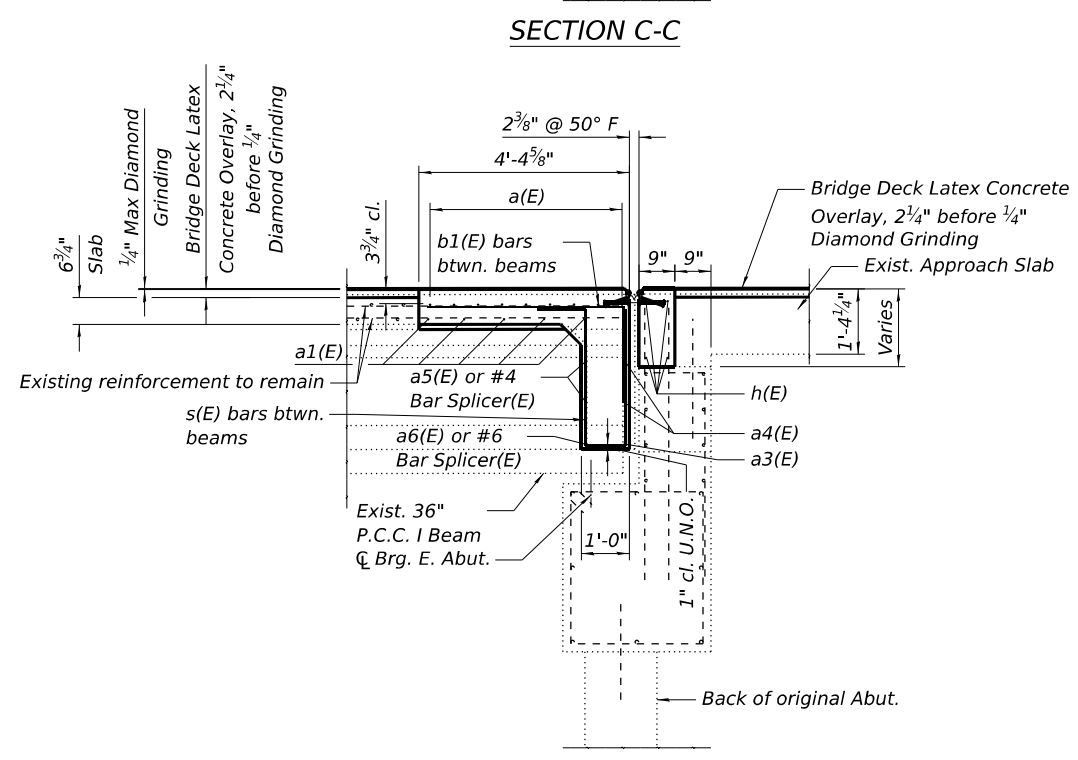
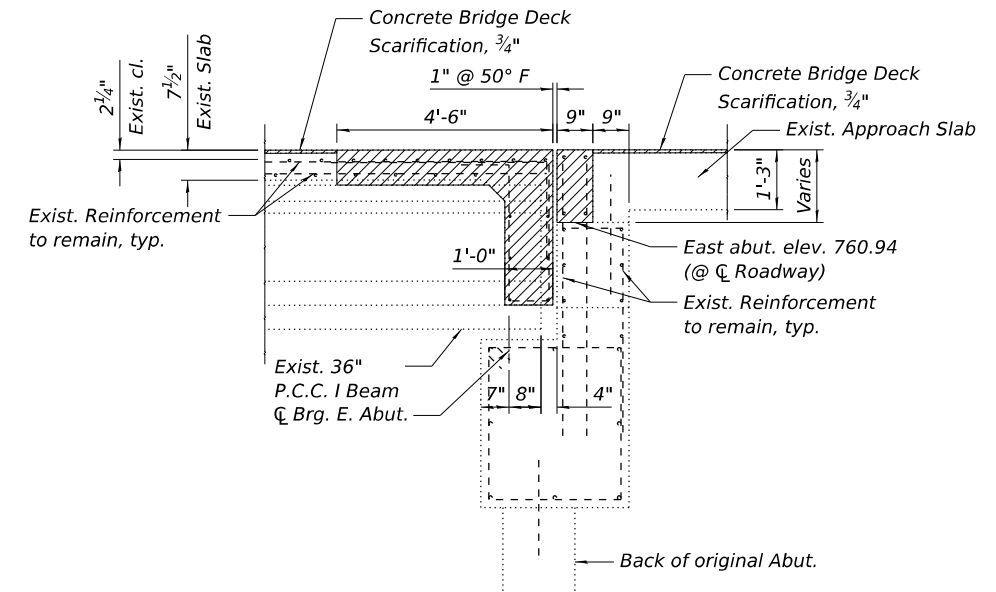
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL AND REPLACEMENT DETAILS
SN 071-0036 OVER DRAINAGE DITCH

F.A.P. RTE. 549	SECTION (116BR) & (117BR-1) BDR	COUNTY OGLE	TOTAL SHEETS 47	SHEET NO. 22
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



Notes:
 Existing reinforcement shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
 Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system at the Contractor's expense.
 Removal of existing joint system is included with Concrete Removal.
 See Sheet 7 of 10 for Section Thru Parapet and Bill of Material.
 Dimensions are based on a Rolled Rail Strip Seal Joint. If the contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on sheet 8 of 10.
 Concrete at Joint Replacement areas to receive 1/4" Diamond Grinding at the same time as the Bridge Deck Latex Concrete Overlay.



LEGEND



MODEL: Sheet 1
 FILE NAME: P:\2024\183-1\Structure\#071-0036\Design\Plans\0710036-0264T02-023_Joint Removal and Replacement Details.dgn

CONCRETE REMOVAL PLAN
 East Abutment

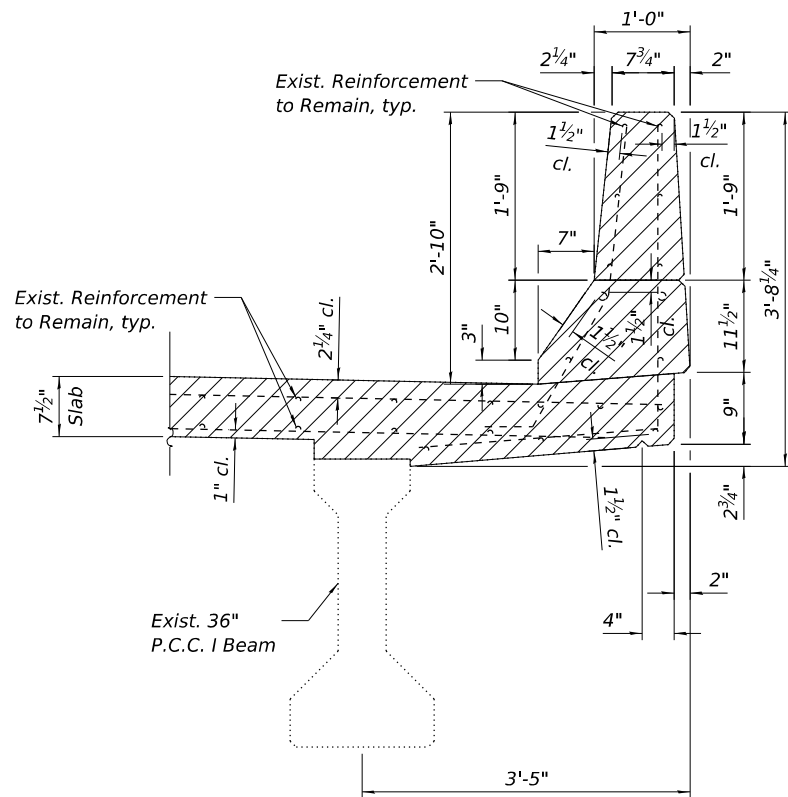
CONCRETE REPLACEMENT PLAN
 East Abutment

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

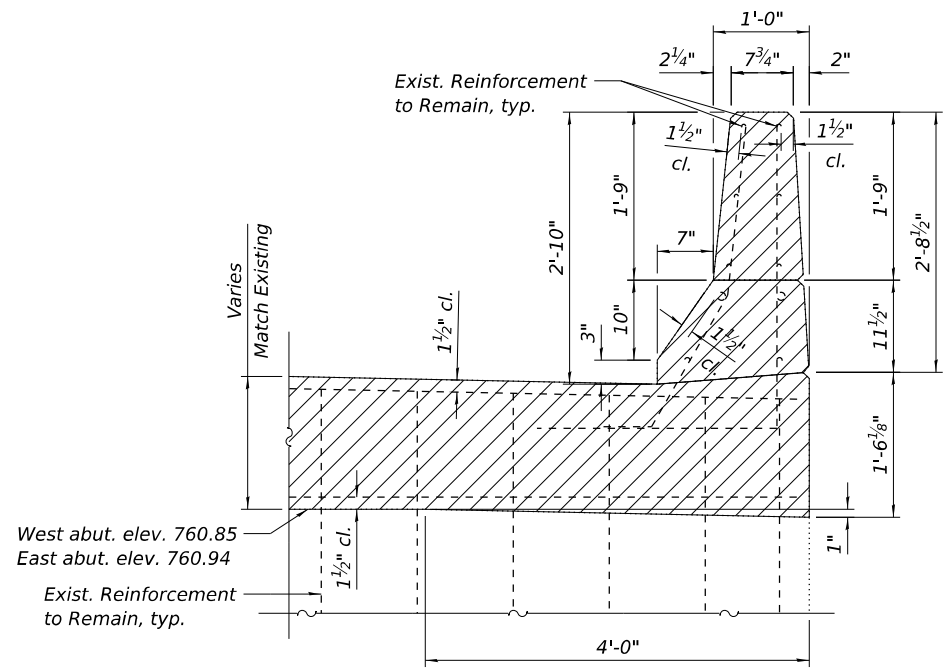
JOINT REMOVAL AND REPLACEMENT DETAILS
 SN 071-0036 OVER DRAINAGE DITCH

USER NAME = clocher	DESIGNED PLD	REVISED -
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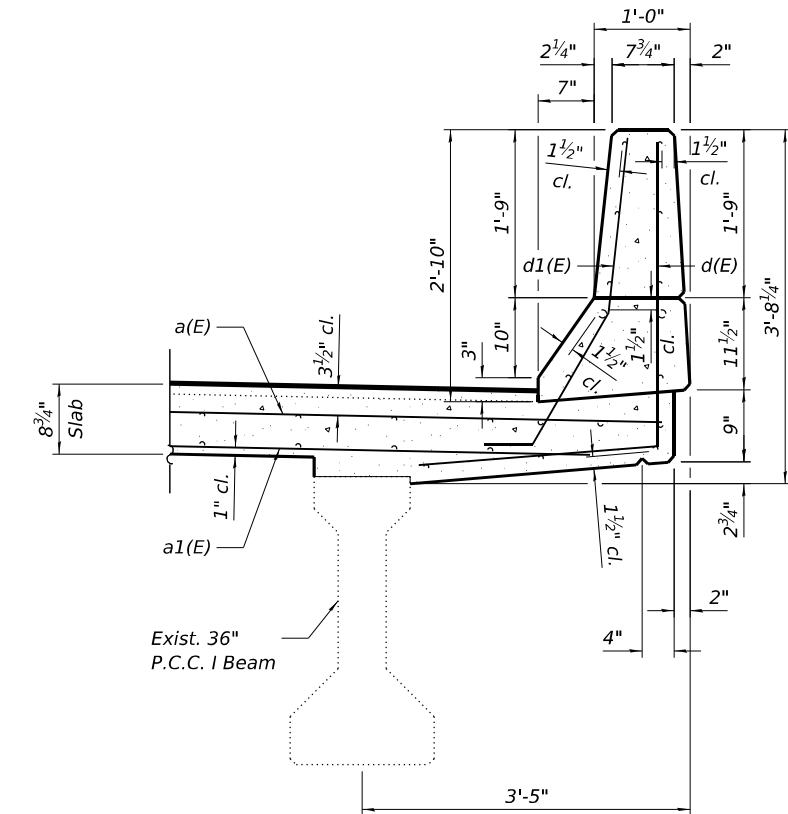
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CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



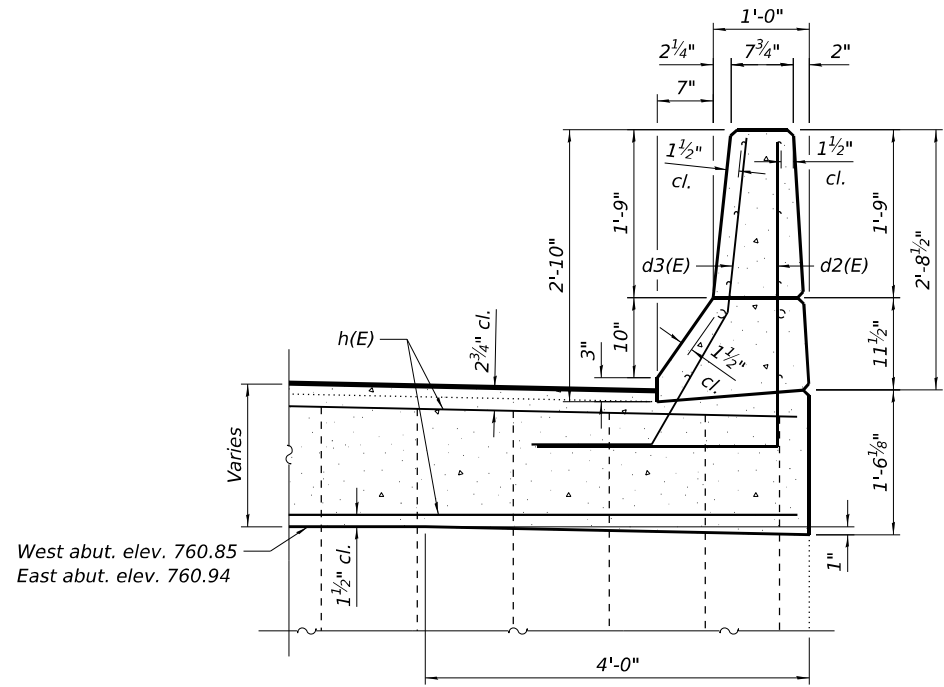
SECTION THRU PARAPET REMOVAL
(South Parapet Shown, North Parapet Similar)



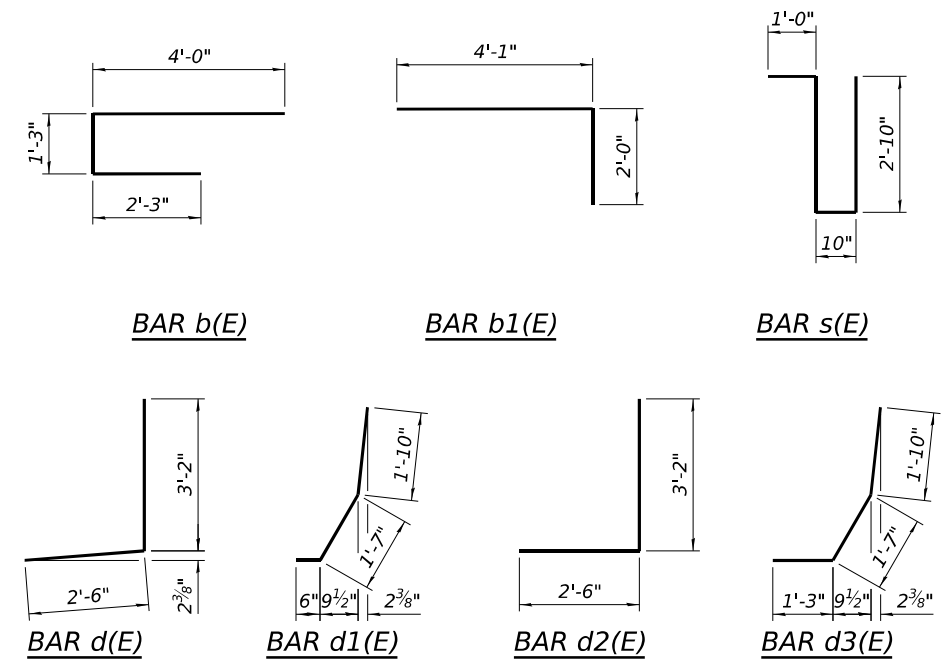
SECTION THRU BACKWALL PARAPET REMOVAL
(South Parapet Shown, North Parapet Similar)



SECTION THRU PARAPET REPLACEMENT
(South Parapet Shown, North Parapet Similar)



SECTION THRU BACKWALL PARAPET REPLACEMENT
(South Parapet Shown, North Parapet Similar)



LEGEND

Concrete Removal

BILL OF MATERIAL FOR TWO JOINTS

Bar	No.	Size	Length	Shape
a(E)	36	#7	17'-2"	—
a1(E)	14	#5	16'-5"	—
a2(E)	20	#6	4'-11"	—
a3(E)	2	#6	14'-2"	—
a4(E)	4	#4	14'-2"	—
a5(E)	8	#4	4'-11"	—
a6(E)	4	#6	4'-2"	—
b(E)	55	#6	7'-6"	┌
b1(E)	55	#6	6'-1"	└
d(E)	24	#4	5'-8"	┌
d1(E)	24	#5	3'-11"	┌
d2(E)	8	#4	5'-8"	┌
d3(E)	8	#5	4'-8"	┌
h(E)	16	#6	17'-4"	—
s(E)	55	#4	7'-6"	└
Concrete Removal			Cu. Yds.	18.5
Reinforcement Bars, Epoxy Coated			Lbs.	3870
Concrete Superstructure			Cu. Yds.	19.9

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL AND REPLACEMENT DETAILS
SN 071-0036 OVER DRAINAGE DITCH

SHEET 7 OF 10 SHEETS

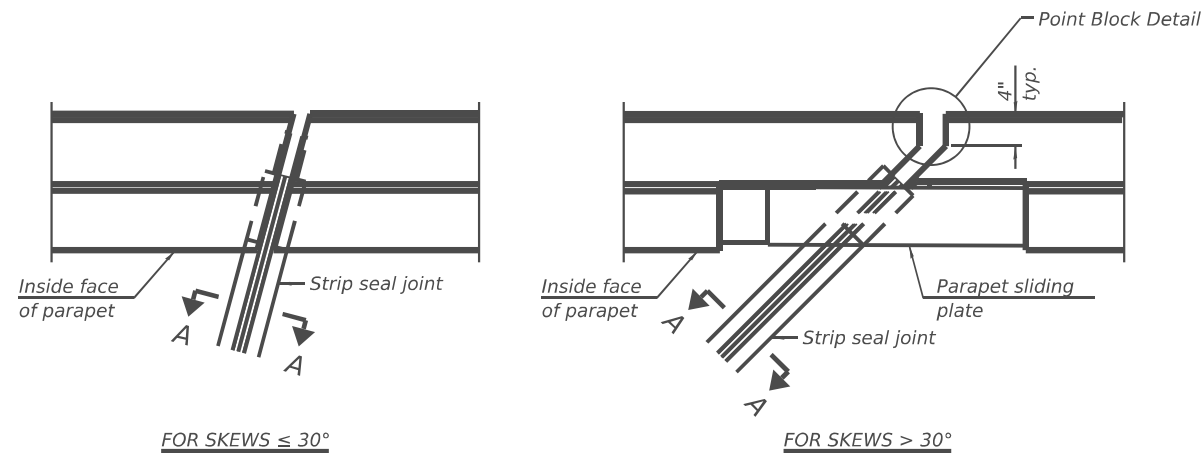
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	24
CONTRACT NO. 64T07				

ILLINOIS FED. AID PROJECT

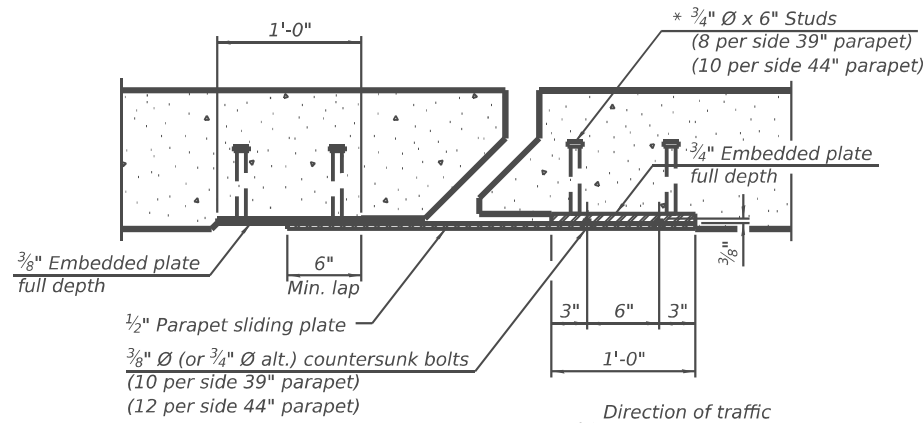
MODEL: Sheet 1
FILE NAME: P:\25E4183-1\Structure #071-0036\Design\Plans\0710036-0264T07-024 - Joint Removal and Replacement Details.dgn

BENTON
ENGINEERING
JACKSONVILLE, FLORIDA

USER NAME = clocher	DESIGNED PLD	REVISIONS -
PLOT SCALE = Full Size 1 = 1	CHECKED MBH	REVISIONS -
PLOT DATE = 5/8/2026	DRAWN PLD	REVISIONS -
	CHECKED MBH	REVISIONS -



PLAN AT PARAPET



SECTION B-B

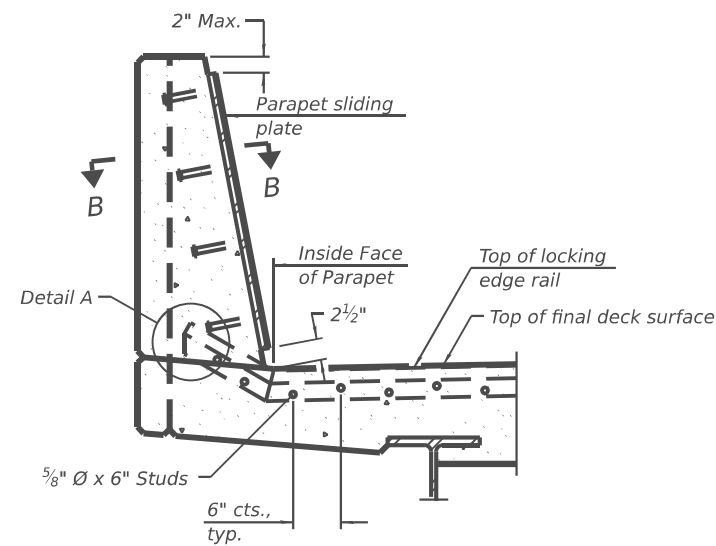
($\frac{3}{4}$ " \varnothing countersunk bolts extending into concrete shall have hex nuts tack welded to the back of the embedded plates with end caps provided.)

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". 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 $4\frac{1}{2}$ " 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 $\frac{3}{16}$ " 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.

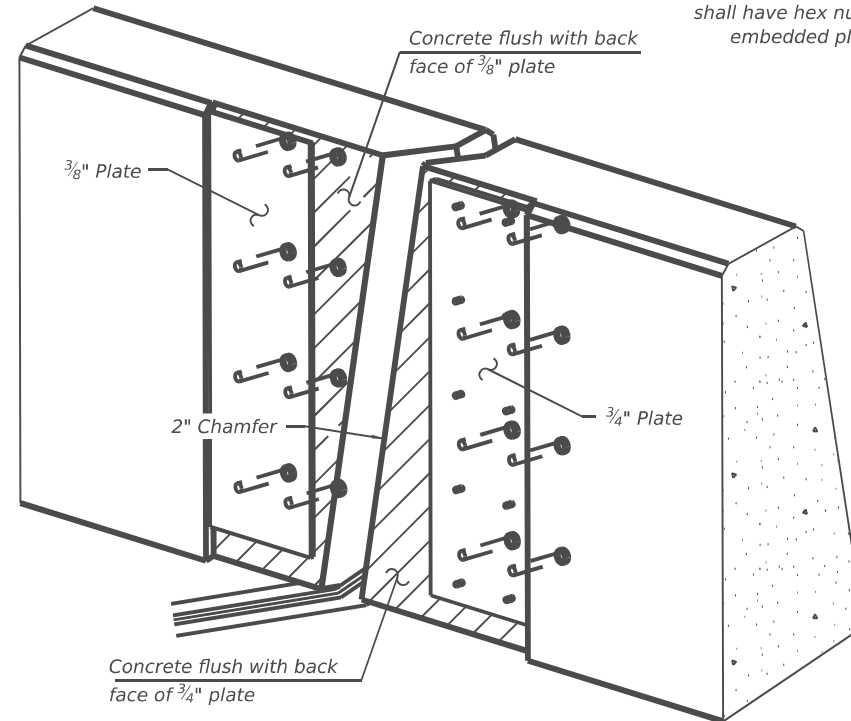
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
39" constant slope barrier shown, 44" constant slope barrier similar as noted.

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.



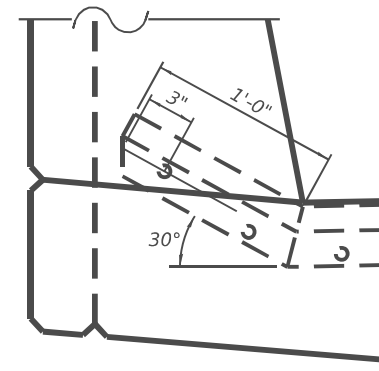
SECTION AT PARAPET

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



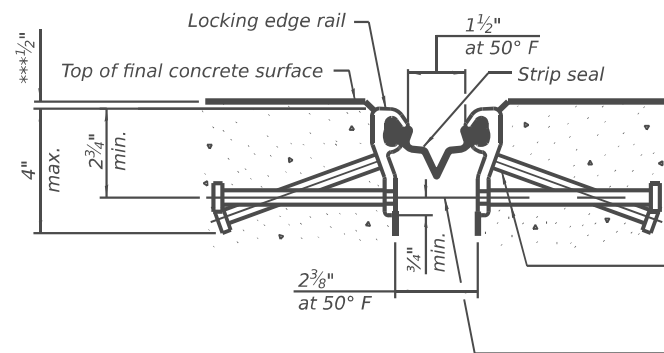
TRIMETRIC VIEW

(Showing embedded plates only)



DETAIL A

(Kick-up at parapet locations shown. See sheet of for kick-up at curb locations.)



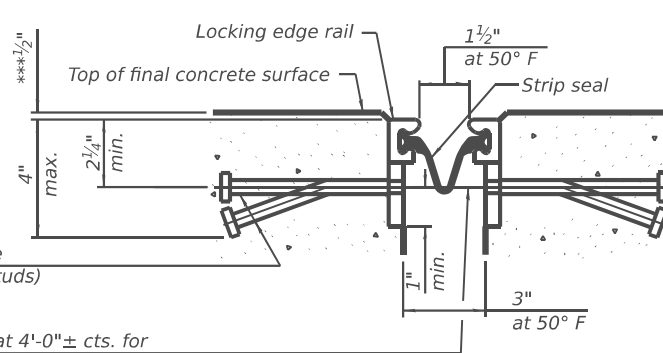
SHOWING ROLLED RAIL JOINT

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

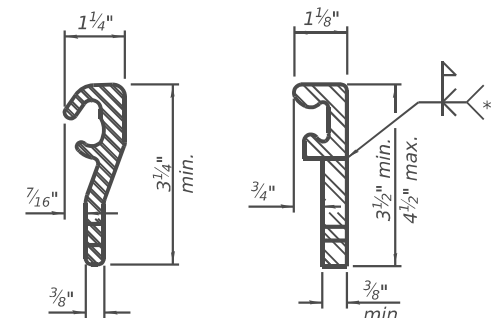
$\frac{3}{8}$ " \varnothing threaded rods in $\frac{7}{16}$ " \varnothing holes at 4'-0" \pm cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates within 90 minutes after concrete is set.

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

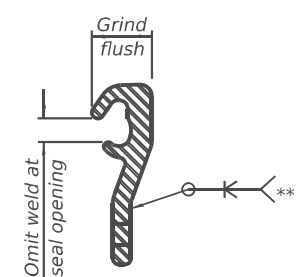


ROLLED (EXTRUDED) RAIL

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	68

MODEL: Sheet 1
FILE NAME: P:\2025\183-1\Structure\071-0036\Design\Plans\071-0036-0261T02-025 - Joint Removal and Reinforcement Details.dwg

EJ-SS 10-3-2025



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PLOT DATE = 4/2/2026	DRAWN PLD	REVISED -
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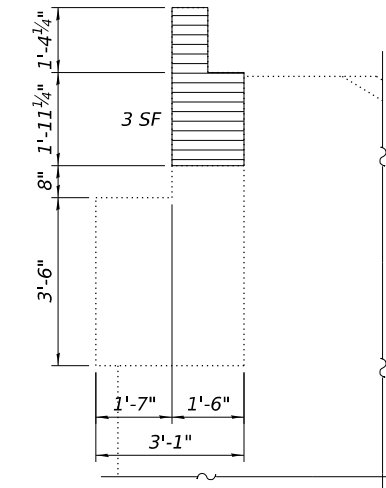
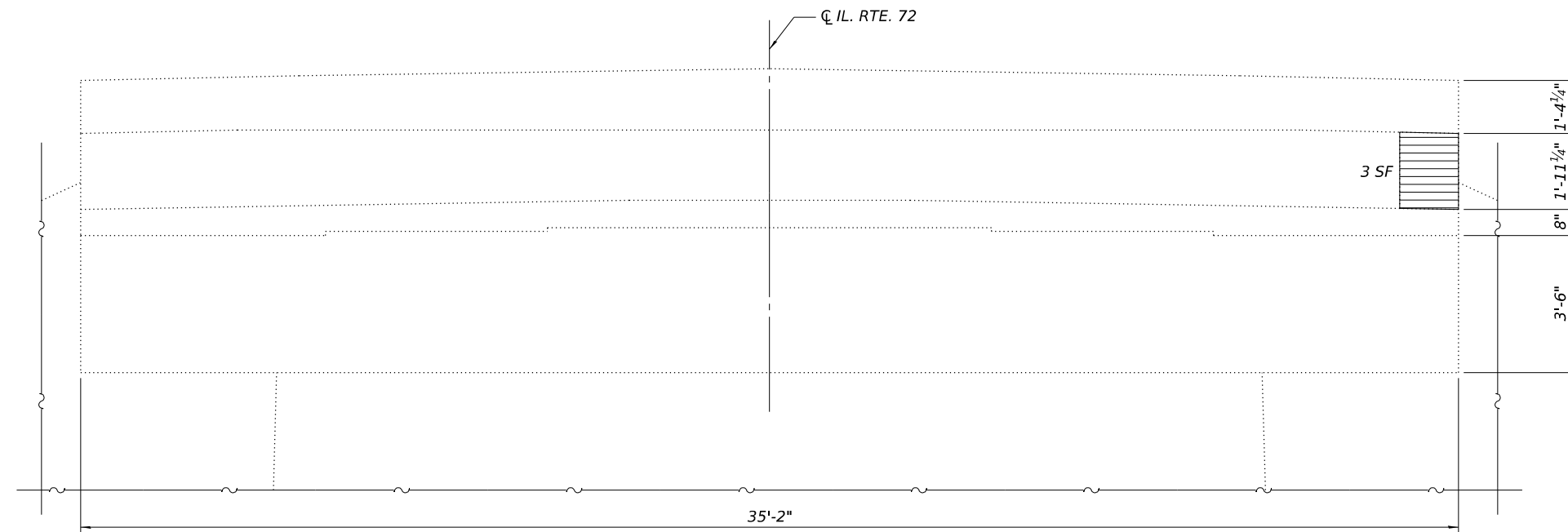
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 071-0036 OVER DRAINAGE DITCH

SHEET 8 OF 10 SHEETS

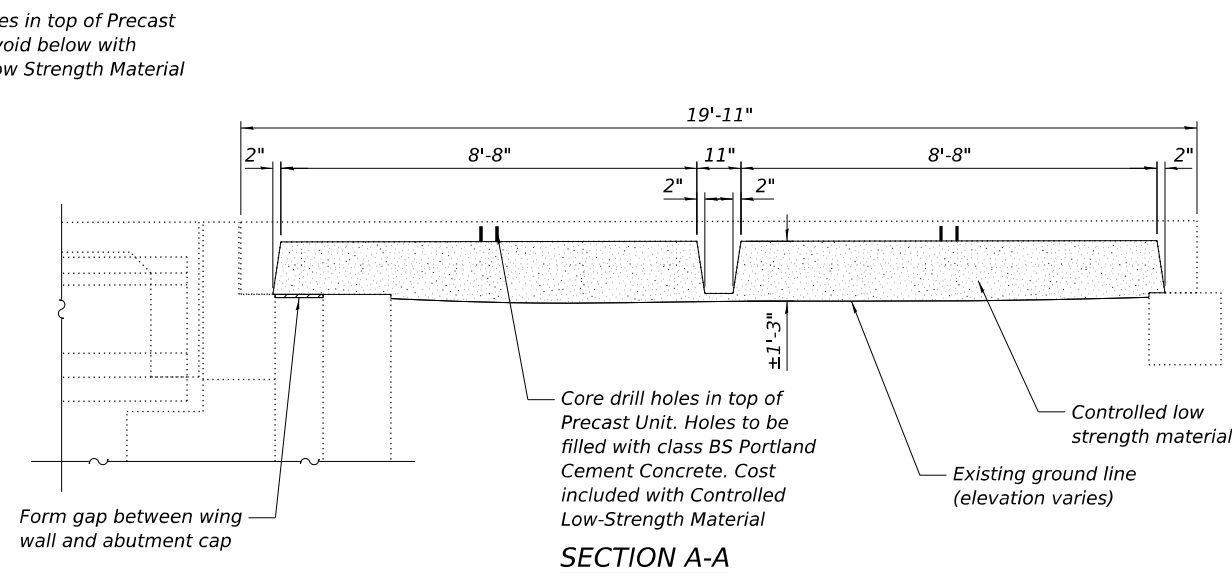
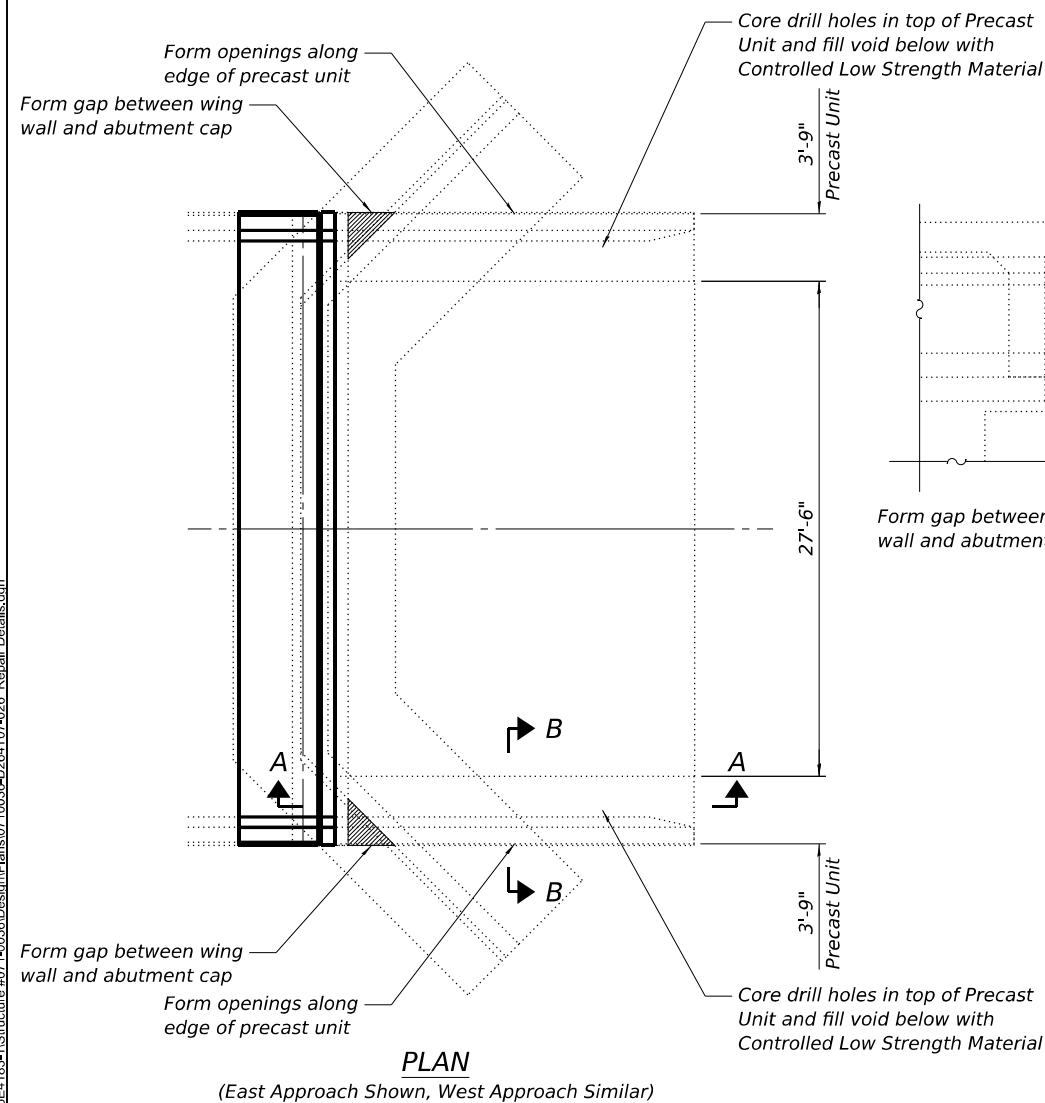
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	25
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

Notes:
 The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.
 See Special Provision for "Precast Prestressed Concrete I-Beam Repair."

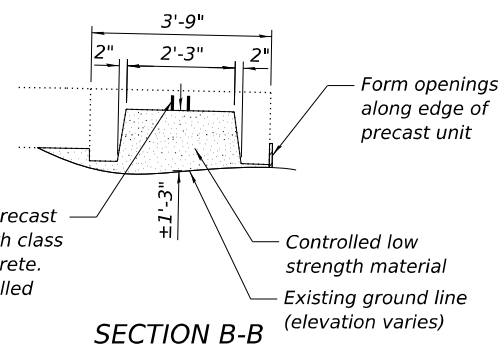


EAST ABUTMENT ELEVATION
 (Looking East)

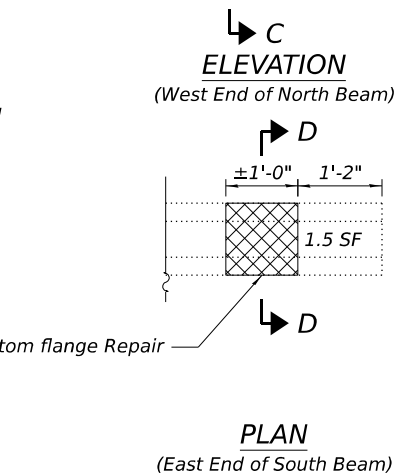
EAST ABUTMENT ELEVATION
 (Looking North)



SECTION A-A

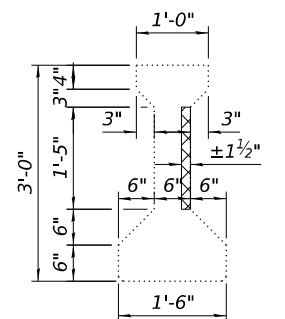


SECTION B-B

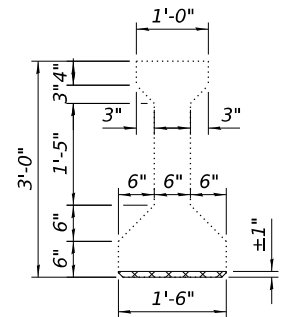


ELEVATION
 (West End of North Beam)

PLAN
 (East End of South Beam)



SECTION C-C



SECTION D-D

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT	6
Controlled Low-Strength Material	CU YD	13.6
Precast Prestressed Concrete I-Beam Repair	SQ FT	3

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- Formwork between wing walls and beam seat
- Precast Prestressed Concrete I-Beam Repair

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
 SN 071-0036 OVER DRAINAGE DITCH

SHEET 9 OF 10 SHEETS

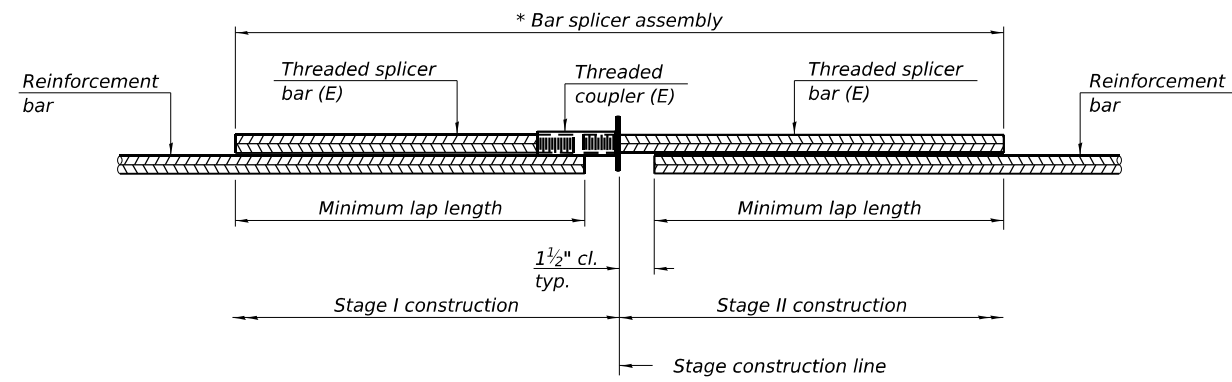
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	26
CONTRACT NO. 64T07				

ILLINOIS FED. AID PROJECT

MODEL: Sheet 1
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PLOT DATE = 5/8/2026	CHECKED MBH	REVISIONS

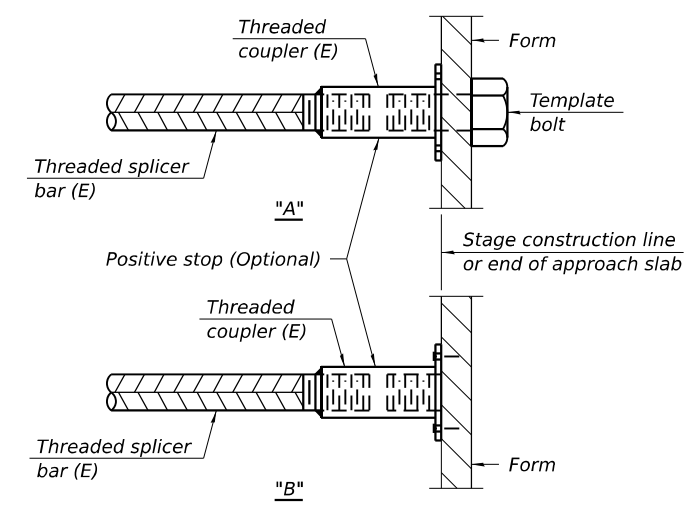


STANDARD BAR SPLICER ASSEMBLY PLAN
 Only bar splicer assemblies as presented on the approved QPL list may be used.

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

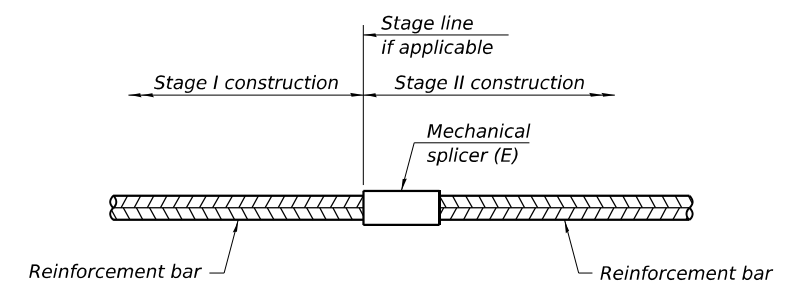
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. End of Deck	#7	9	3'-10"
W. End of Deck	#6	5	2'-4"
W. End of Deck	#5	2	3'-10"
W. Abut. Backwall	#6	4	4'-10"
E. End of Deck	#7	9	3'-10"
E. End of Deck	#6	1	5'-3"
E. End of Deck	#6	1	2'-0"
E. End of Deck	#5	5	3'-10"
E. End of Deck	#4	2	2'-11"
E. End of Deck	#4	2	2'-4"
E. Abut. Backwall	#6	4	4'-10"



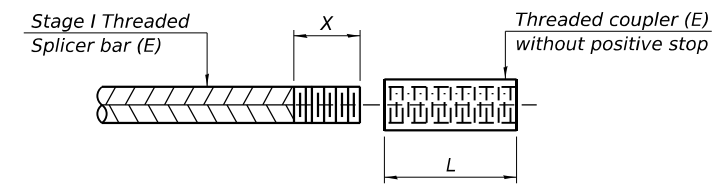
INSTALLATION AND SETTING METHODS

"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



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

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: Sheet 1
 FILE NAME: P:\25E4183-1\Structure #071-0036\Design\Plans\0710036-0264T07-027 - Bar Splicer Assembly and Mechanical Splicer Details.dgn

BSD-1

4-4-2025



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	CHECKED MBH	REVISED -
PLOT SCALE = Full Size 1 = 1	DRAWN PLD	REVISED -
PLOT DATE = 5/8/2026	CHECKED MBH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

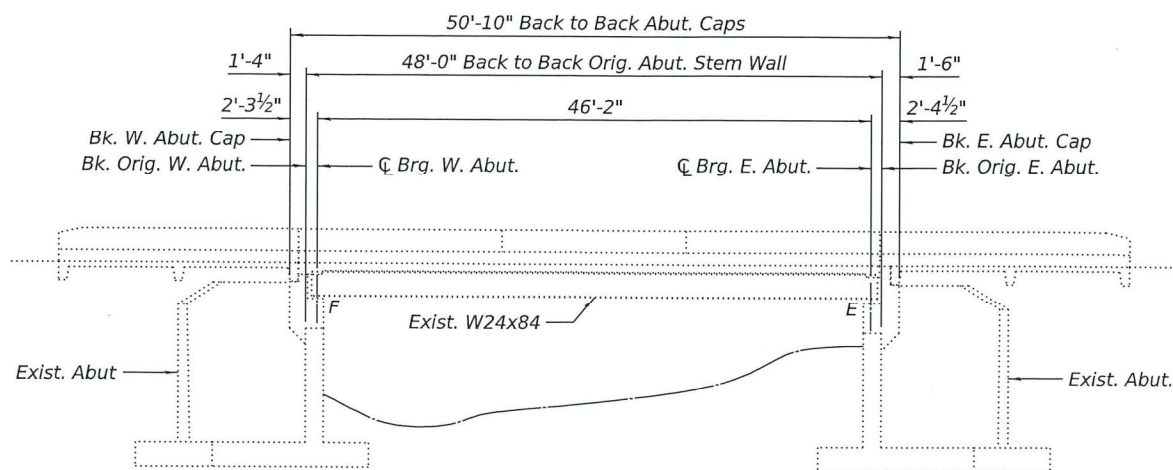
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 071-0036 OVER DRAINAGE DITCH

SHEET 10 OF 10 SHEETS

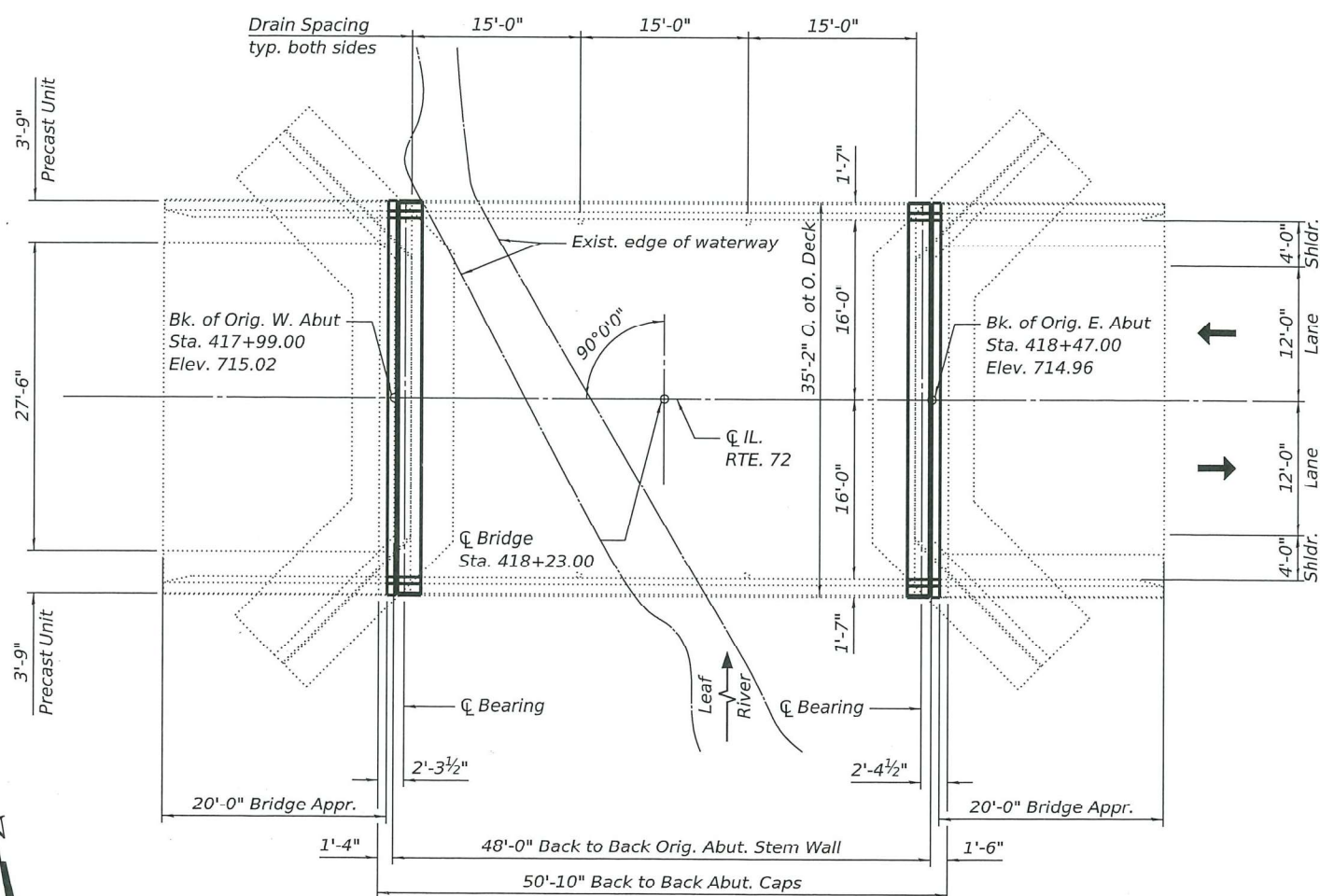
F.A.P. RTE. 549	SECTION (116BR)&(117BR-1)BDR	COUNTY OGLE	TOTAL SHEETS 47	SHEET NO. 27
CONTRACT NO. 64T07			ILLINOIS FED. AID PROJECT	

Existing Structure: Structure 071-0037 was rebuilt in 1984 as part of project BHF-549(5). The existing structure consist of a single span superstructure with W24 wide flange beams and 7½" concrete deck. The bridge is 48'-0" from back to back of original abutments. The overall bridge width is 35'-2" out to out with 32'-0" roadway width. The bridge has no skew. The substructure consist of reinforced concrete bent abutments and a spread footing foundation.

Traffic to be maintained utilizing stage construction.



ELEVATION



PLAN

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Temporary Concrete Barrier
- 4 Deck Repair
- 5 Joint Removal and Replacement Details
- 6 Joint Removal and Replacement Details
- 7 Joint Removal and Replacement Details
- 8 Joint Removal and Replacement Detail
- 9 Abutment and Approach Repairs
- 10 Bar Splicer Assembly and Mechanical Splicer Details

SCOPE OF WORK

- 1. Perform ¾" bridge deck scarification.
- 2. Fill voids below approach slab precast units.
- 3. Perform concrete repair on abutments.
- 4. Remove and Replace expansion joint at abutments.
- 5. Place 2¼" bridge deck latex overlay.
- 6. Perform ¼" diamond grinding on deck overlay.
- 7. Perform bridge deck grooving (longitudinal) on deck overlay.
- 8. Apply protective coat to deck and parapets.

DESIGN SPECIFICATIONS (EXIST.)

1977 AASHTO with 1978 thru 1983 Interim Specifications

DESIGN STRESSES (EXIST.)

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (Structural) M-222
 fy = 36,000 psi (Structural) M-183

PRECAST UNITS

f'c = 4,500 psi
 fc = 1800 psi
 fs = 20,000 psi
 n = 8

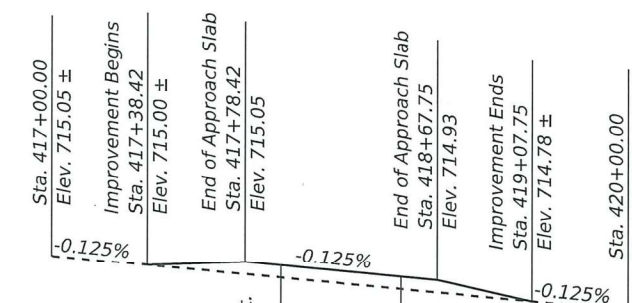
DESIGN STRESSES (NEW CONST.)

FIELD UNITS

f'c = 4,000 psi (Superstructure)
 f'c = 3,500 psi (Substructure)
 fy = 60,000 psi (Reinforcement)

LOADING HS20-44

Existing

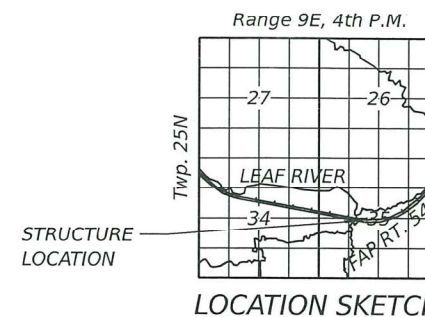


PROFILE GRADE

(Along CL RTE 72)

For information only

Up to ¼ inch to be ground off the bridge deck and the bridge approach slabs. The Profile Grade shows the final grade after grinding.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
 IL RT. 72 OVER LEAF RIVER
 FAP RT. 549 SECTION (116BR)&(117BR-1)BDR
 OGLE COUNTY
 STATION 418+23
 STRUCTURE NO. 071-0037

MODEL: Sheet 1
 FILE NAME: P:\054183-1\Structure\071-0037\Design\Plans\071-0037-026\T07-026 - General Plan and Elevation.dgn

BENTON
 ENGINEERING

ILLINOIS DESIGN PROFESSIONAL REGISTRATION NO. 18420252

JACKSONVILLE, ILLINOIS • TROUBLESHOOTING & REPAIRS • KANSAS CITY, MISSOURI

USER NAME = clocher	DESIGNED PLD	REVISED -
PLOT SCALE = Full Size 1 = 1	CHECKED MBH	REVISED -
PLOT DATE = 5/8/2026	DRAWN PLD	REVISED -
	CHECKED MBH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 SN 071-0037 OVER LEAF RIVER

SHEET 1 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	28
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Prior to pouring the new concrete patches or deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to the existing structure have been taken from existing plans and 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.

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 at the contractor's expense.

The minimum thickness of the concrete overlay shall be 2 1/4" and varies as required to adjust for the existing profile grade and beam chamber.

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

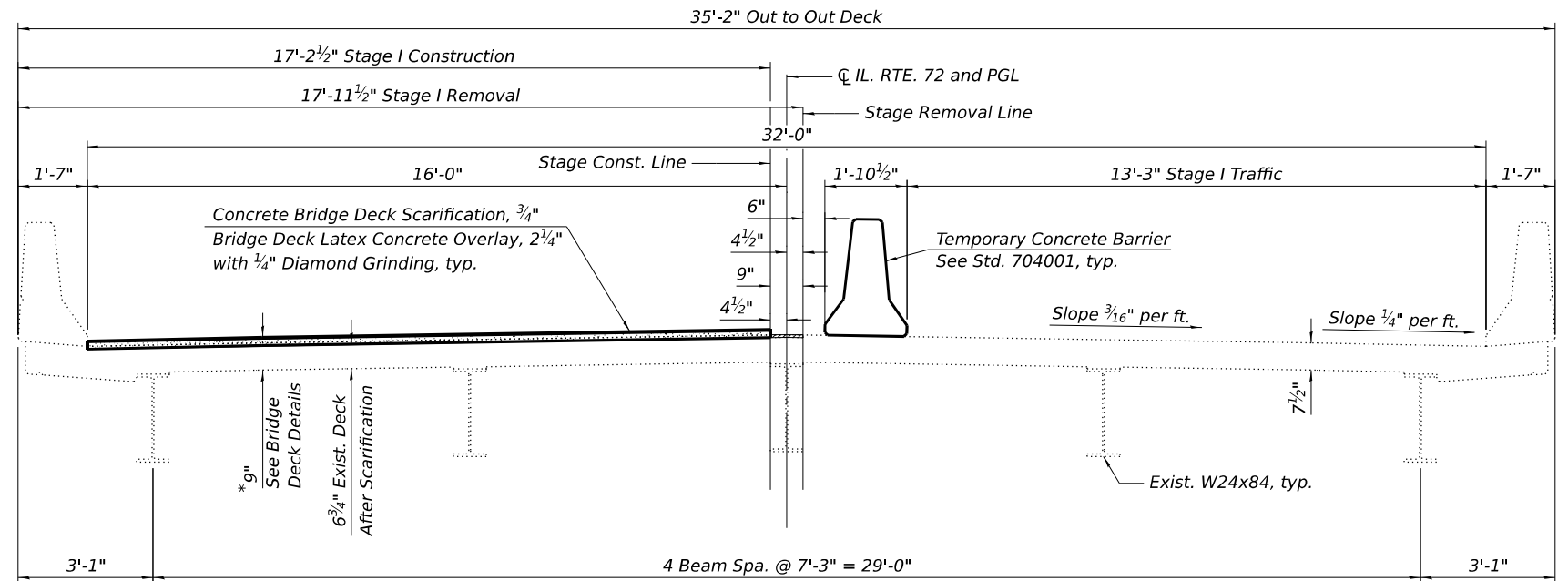
Areas of repairs shown are estimated. The Engineer shall show actual locations and size of repairs on As-built Plans.

Protective coat shall be applied to the top surface of the concrete overlay and to the concrete at the proposed joint replacement. It shall also be applied to the top and inside vertical faces of new and existing parapet.

The Contractor shall exercise care during removal of existing joints to ensure that the deck slab, beams, girders, and diaphragms integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the deck slab, beams, girders, and diaphragms caused by their operation as directed by the Engineer at no additional cost to the Department.

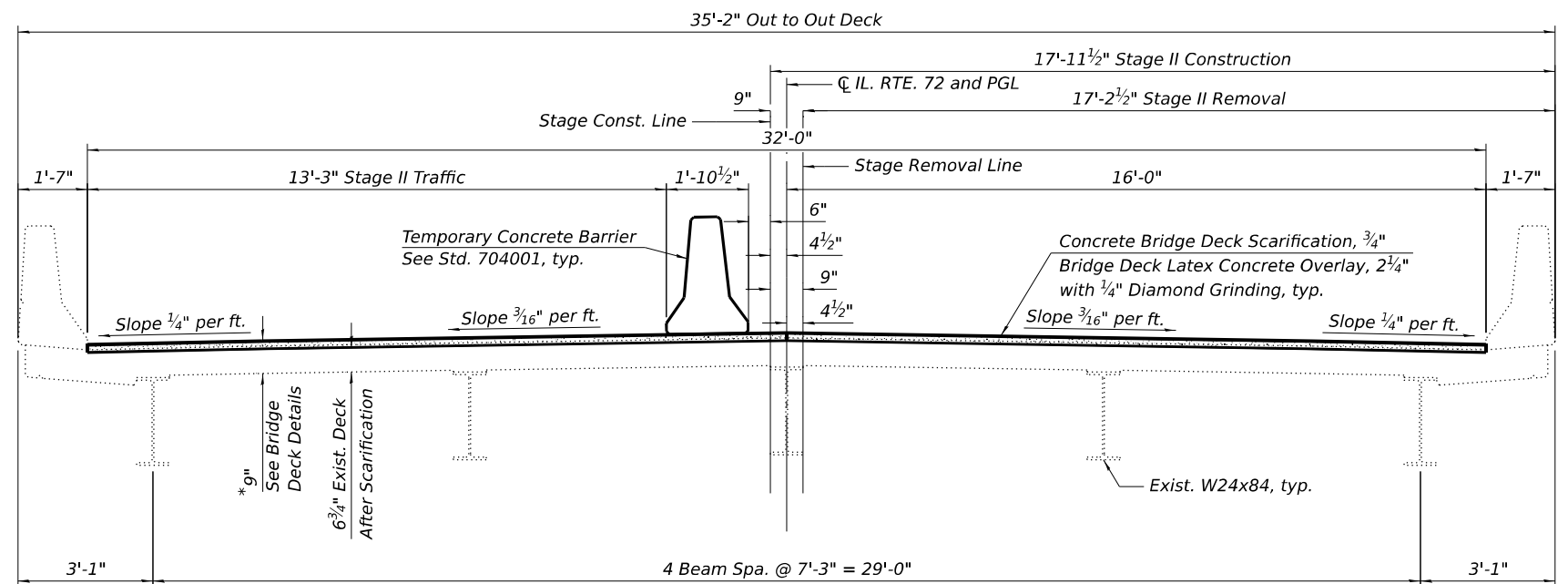
Stage construction shall be utilized to maintain traffic during construction.

All structural steel shall conform to AASHTO Classification M-270 Gr. 36 unless otherwise noted.



* Prior to 1/4" Diamond Grinding

STAGE I CROSS SECTION
Looking East



* Prior to 1/4" Diamond Grinding

STAGE II CROSS SECTION
Looking East

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	CU YD	8.9		8.9
Concrete Superstructure	CU YD	9.3		9.3
Protective Coat	SQ YD	368		368
Reinforcement Bars, Epoxy Coated	POUND	1590		1590
Bar Splicers	EACH	26		26
Performed Joint Strip Seal	FOOT	68		68
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	SQ YD	297		297
Bridge Deck Scarification 3/4"	SQ YD	297		297
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT		15	15
Epoxy Crack Injection	FOOT	14		14
Controlled Low-Strength Material	CU YD		13.6	13.6
Bridge Deck Grooving (Longitudinal)	SQ YD	237		237
Diamond Grinding (Bridge Section)	SQ YD	277		277
Joint Repair	EACH	4		4

MODEL: Sheet 1
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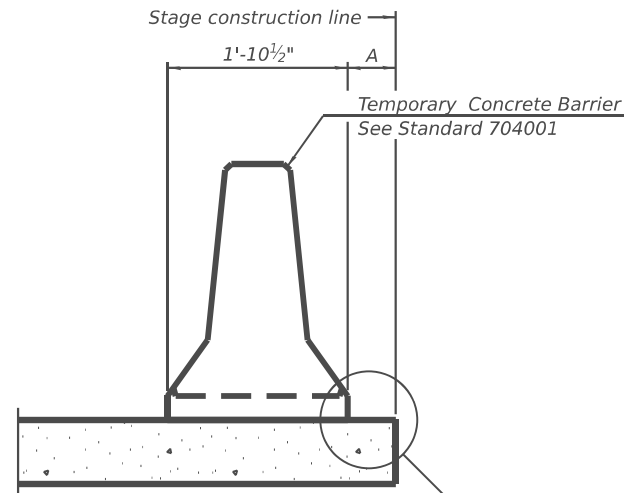
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
SN 071-0037 OVER LEAF RIVER**

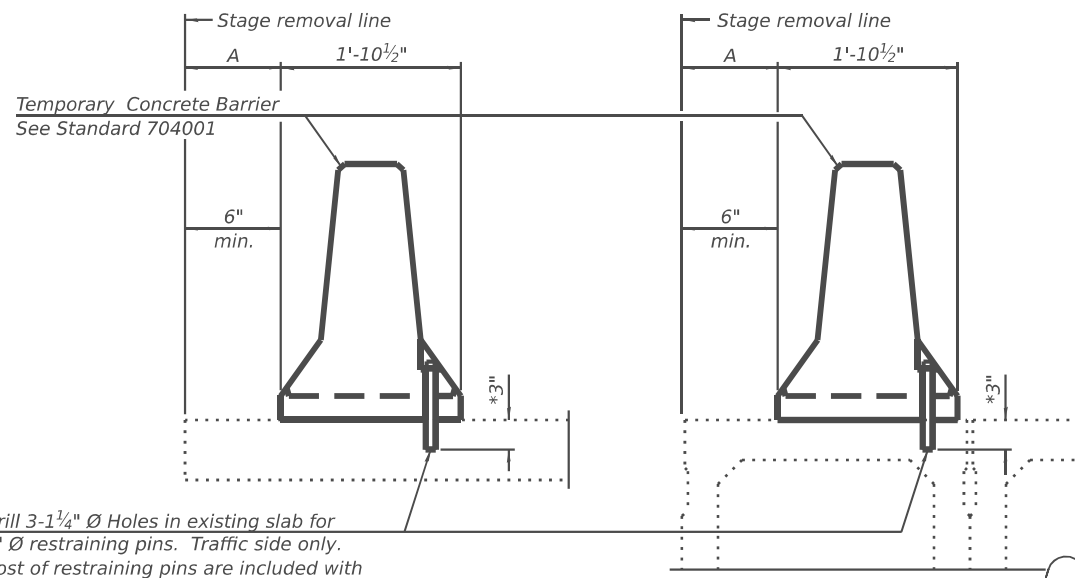
SHEET 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	29
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



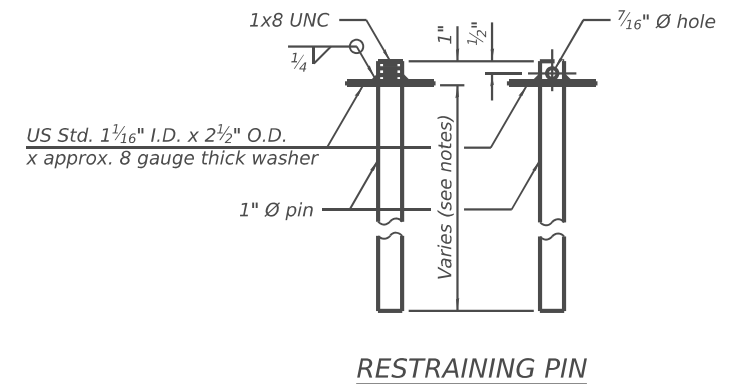
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

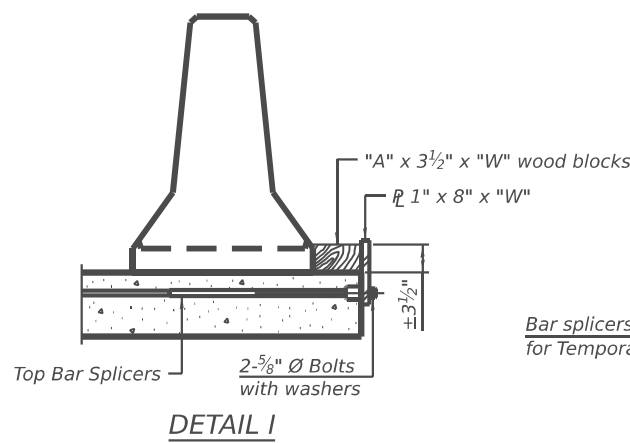
EXISTING DECK BEAM

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

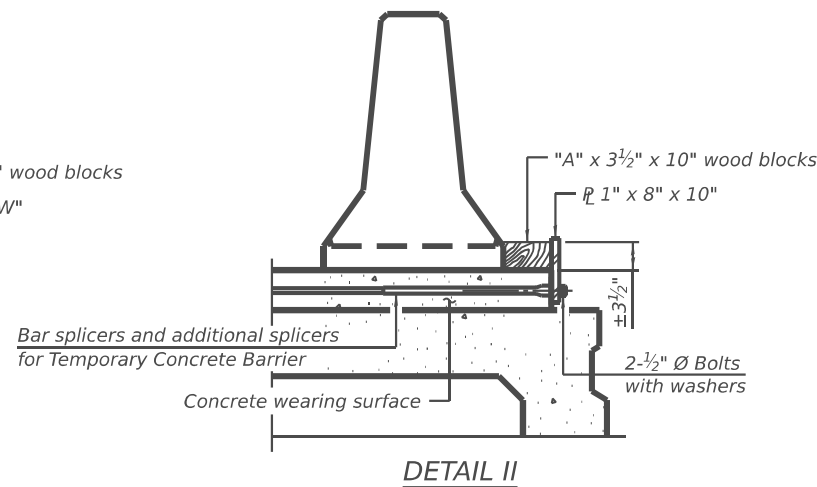
SECTIONS THRU SLAB OR DECK BEAM



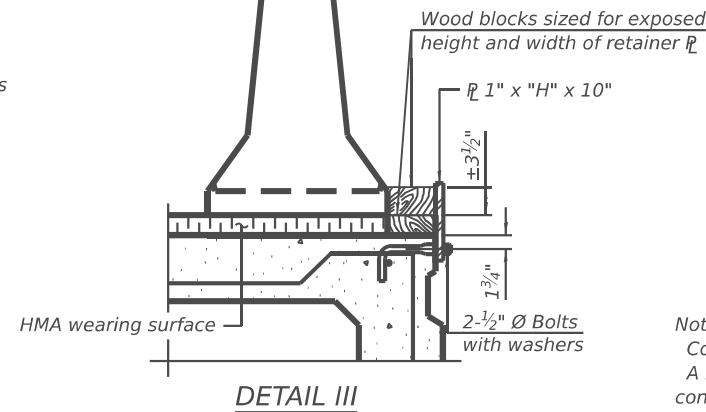
RESTRAINING PIN



DETAIL I



DETAIL II



DETAIL III

BAR SPLICER FOR #4 BAR - DETAIL III

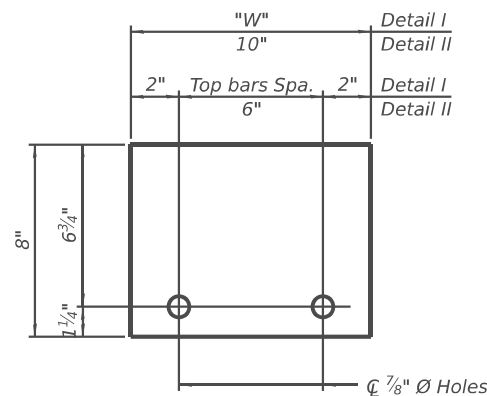
Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
- The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
- When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
- For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

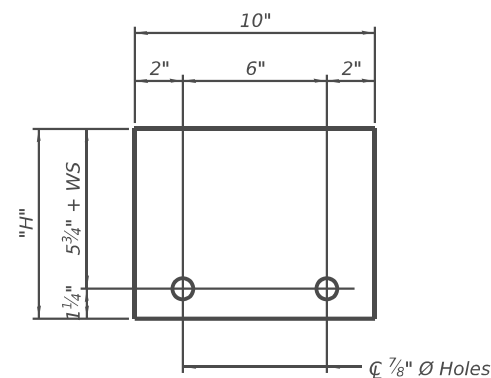
Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023



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		CHECKED	MBH	REVISED	-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

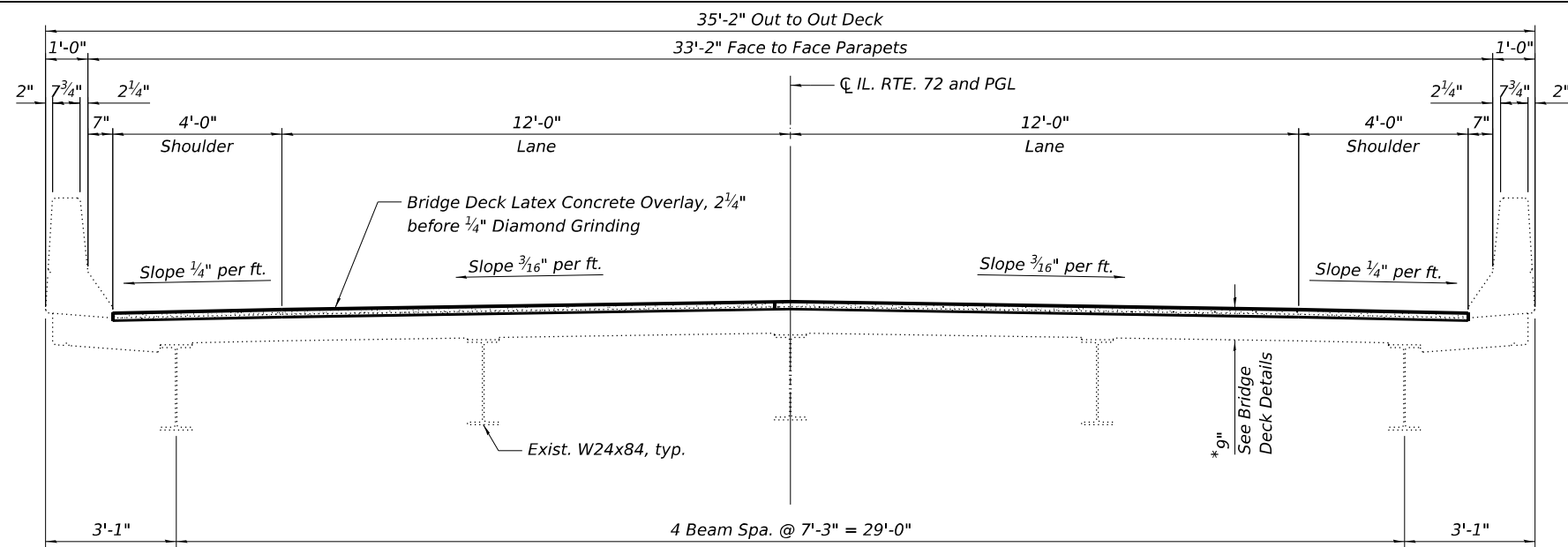
TEMPORARY CONCRETE BARRIER
SN 071-0037 OVER LEAF RIVER

SHEET 3 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR)&(117BR-1)BDR	OGLE	47	30
CONTRACT NO. 64T07				

ILLINOIS FED. AID PROJECT

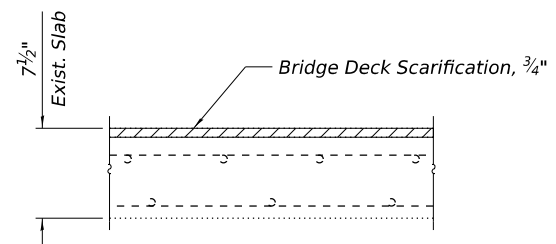
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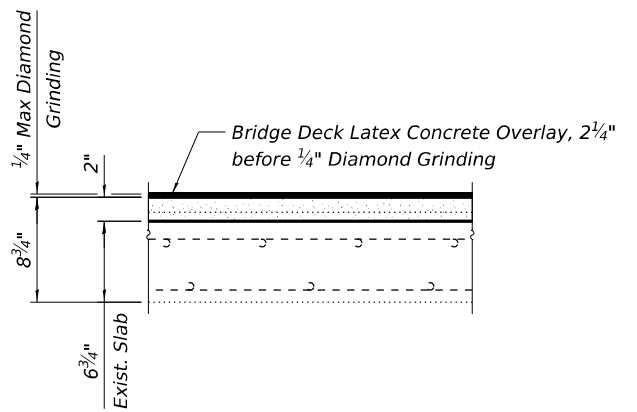
CROSS SECTION
Looking East

LEGEND (CROSS SECTIONS)

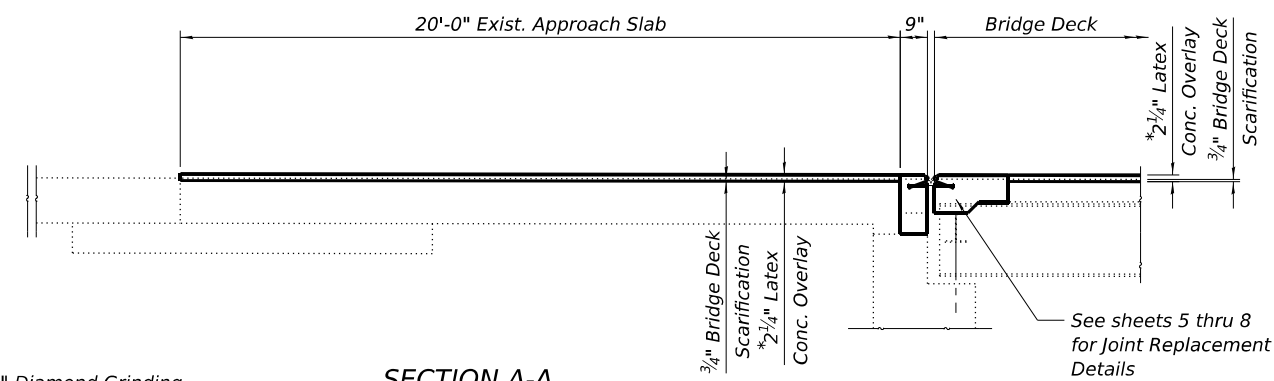
- Bridge Deck Scarification, 3/4"
- Bridge Deck Latex Concrete Overlay, 2 1/4"



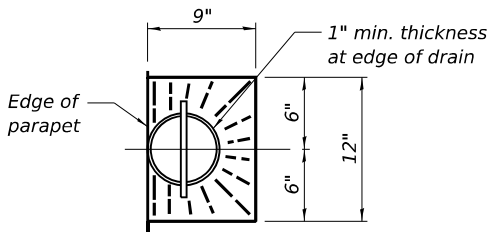
EXISTING DECK CROSS SECTION DETAIL



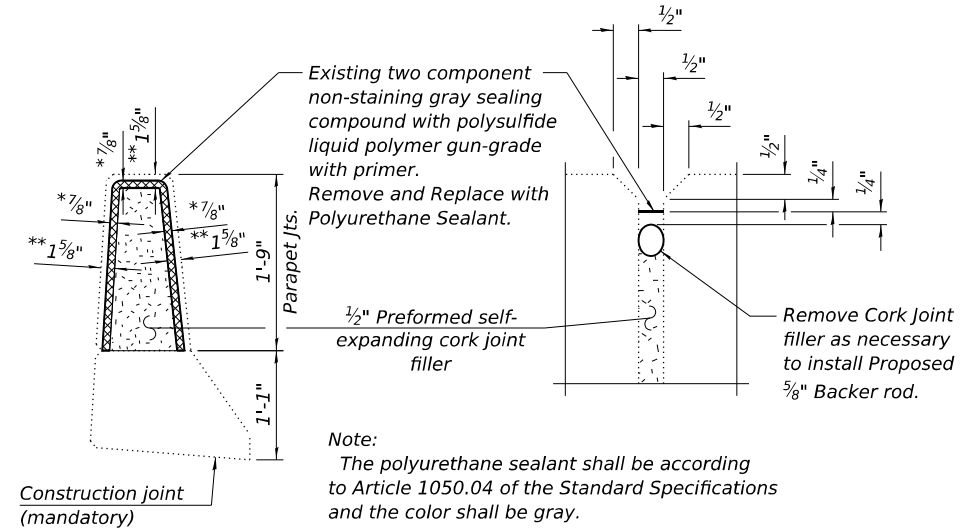
PROPOSED DECK CROSS SECTION DETAIL



SECTION A-A
(West Approach Shown, East Approach Similar)



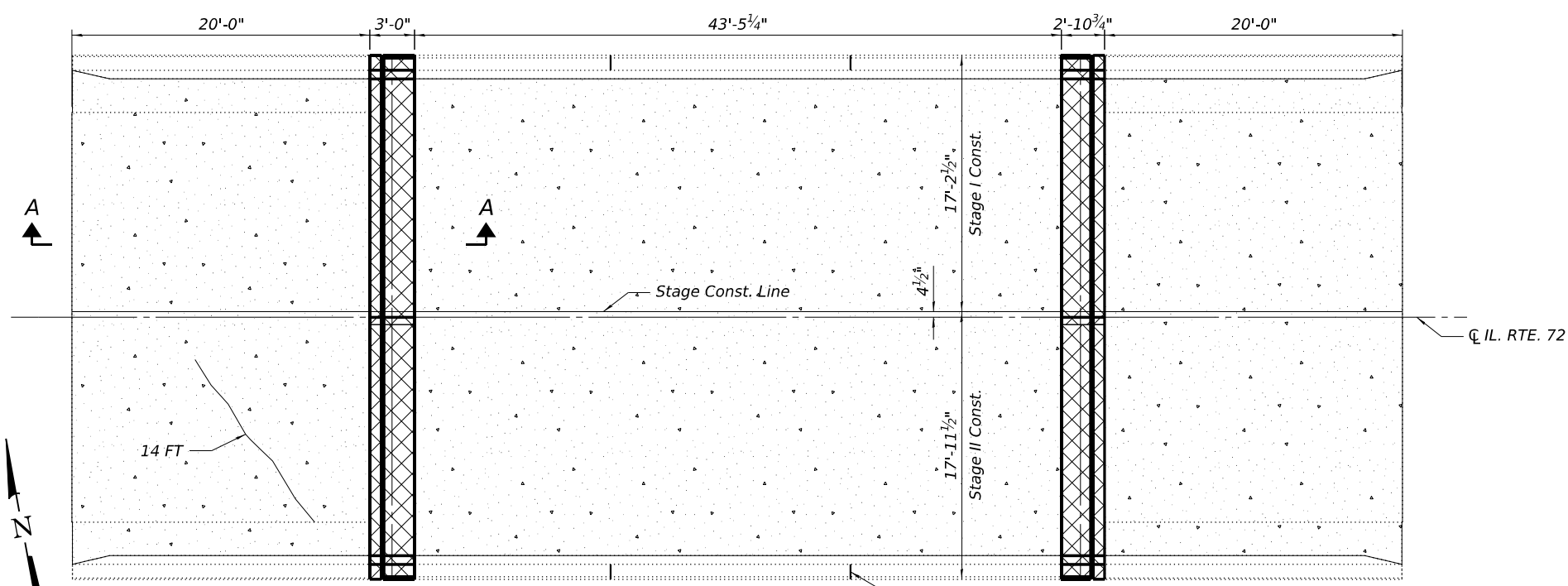
DECK DRAIN DETAIL



PARAPET JOINT DETAILS

LEGEND (PLAN VIEW)

- Bridge Deck Scarification, 3/4"
- Bridge Deck Latex Concrete Overlay, 2 1/4"
- Joint Removal and Replacement See Sheets 5 thru 8 of 10
- Epoxy Crack Injection



PLAN

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	SQ YD	368
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	SQ YD	297
Bridge Deck Scarification 3/4"	SQ YD	297
Epoxy Crack Injection	FOOT	14
Bridge Deck Grooving (Longitudinal)	SQ YD	237
Diamond Grinding (Bridge Section)	SQ YD	277
Joint Repair	Each	4

Notes:
Protective coat shall be applied to the top surface of the concrete overlay and to the concrete at the proposed joint replacement. It shall also be applied to the top and inside vertical faces of new and existing parapet.

MODEL: Sheet 1
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5/8/2026 8:23:43 AM



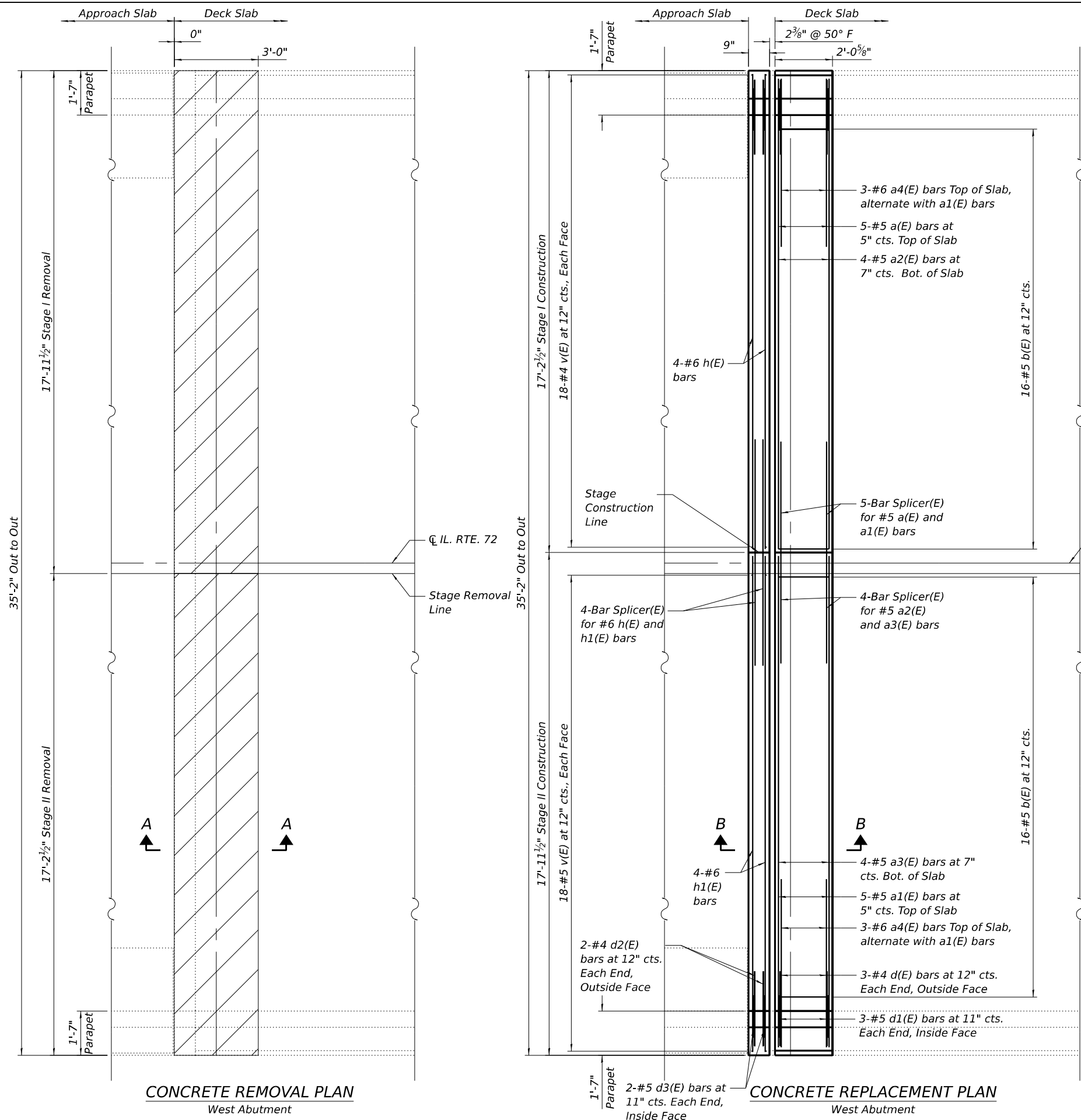
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

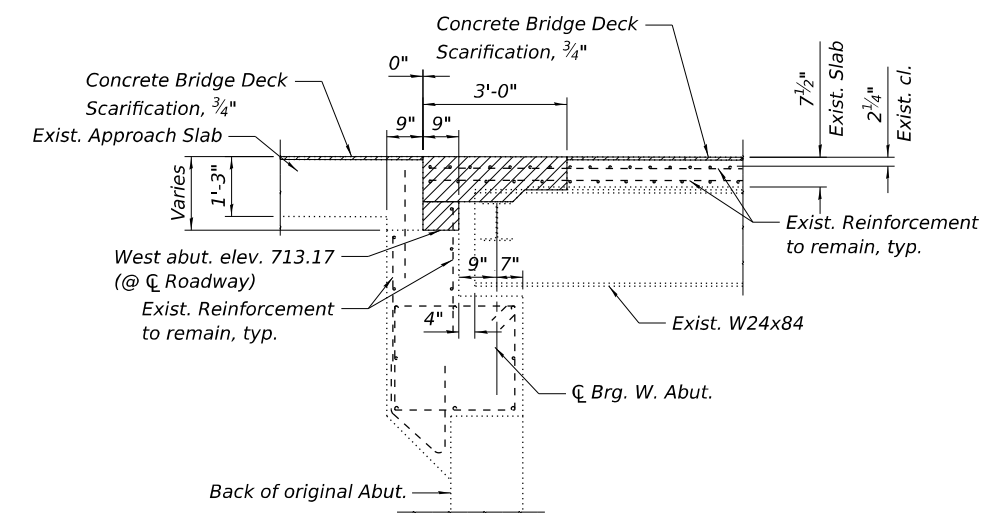
DECK REPAIR
SN 071-0037 OVER LEAF RIVER

SHEET 4 OF 10 SHEETS

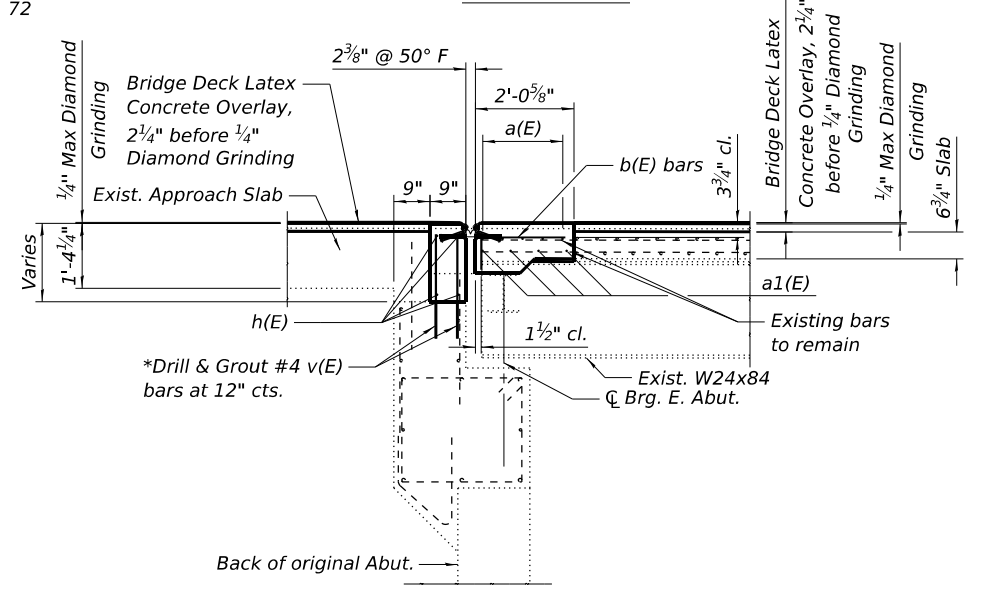
F.A.P. RTE. 549	SECTION (116BR)&(117BR-1)BDR	COUNTY OGLE	TOTAL SHEETS 47	SHEET NO. 31
			CONTRACT NO. 64T07	
ILLINOIS FED. AID PROJECT				



Notes:
 Existing reinforcement shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
 Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system at the Contractor's expense.
 Removal of existing joint system is included with Concrete Removal.
 See Sheet 7 of 10 for Section Thru Parapet and Bill of Material.
 Dimensions are based on a Rolled Rail Strip Seal Joint. If the contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on sheet 8 of 10.
 Concrete at Joint Replacement areas to receive 1/4" Diamond Grinding at the same time as the Bridge Deck Latex Concrete Overlay.



SECTION A-A



SECTION B-B

*Epoxy grout v(E) bars in 9" min. holes according to Art. 584 of the Standard Specifications.

LEGEND
 Concrete Removal

MODEL: Sheet 1
 FILE NAME: P:\2024\183-1\Structure\0710037\Design\Plans\0710037-0264T02-032 -Joint Removal and Replacement Details.dgn

CONCRETE REMOVAL PLAN
 West Abutment

CONCRETE REPLACEMENT PLAN
 West Abutment

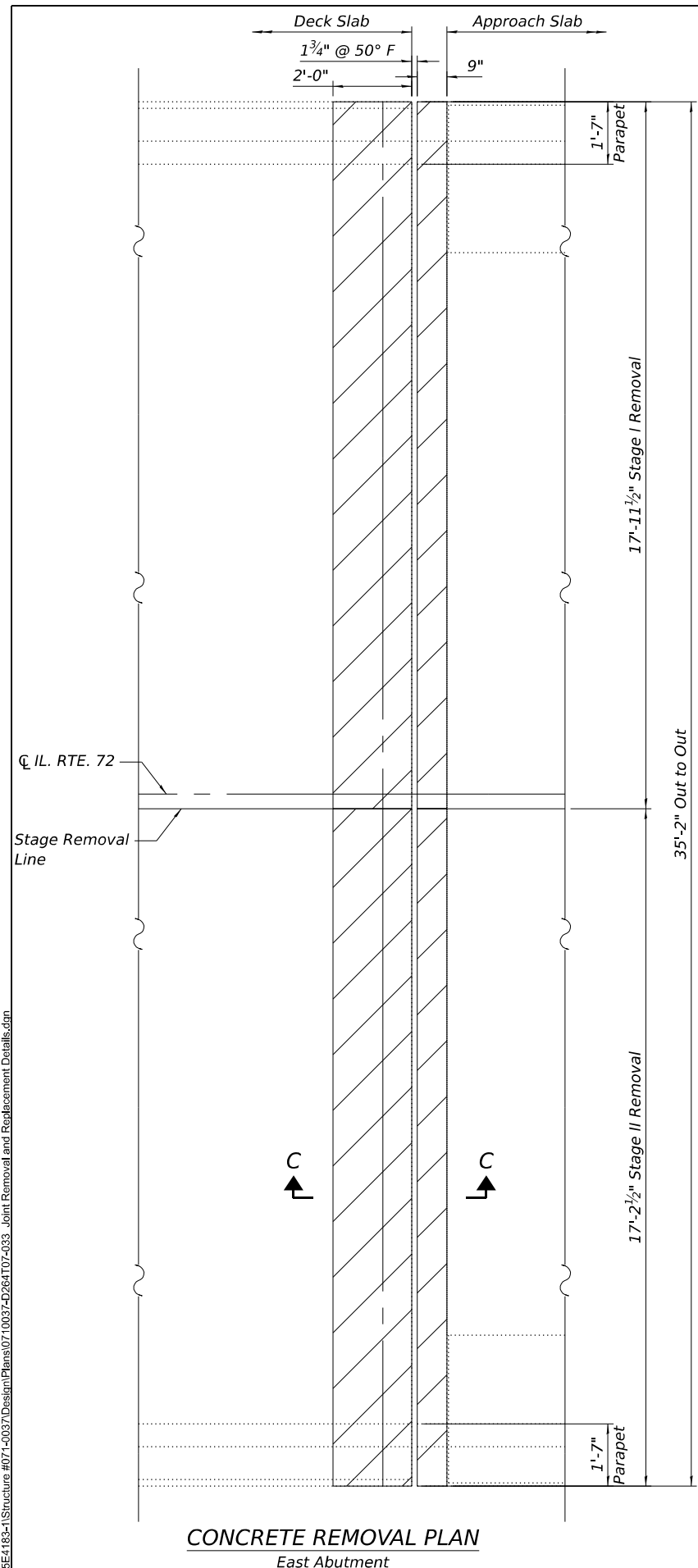
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL AND REPLACEMENT DETAILS
 SN 071-0037 OVER LEAF RIVER

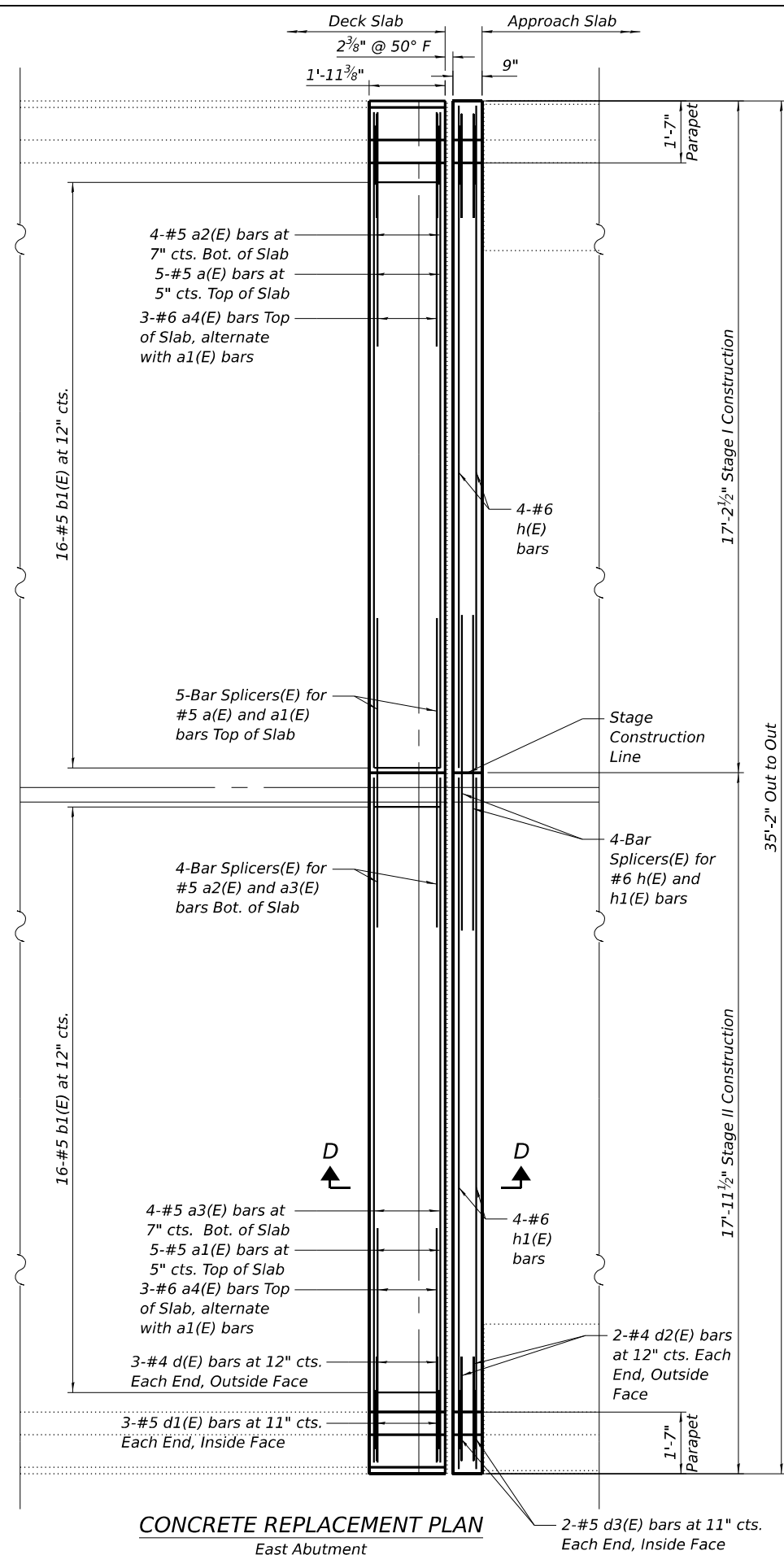
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SHEET 5 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

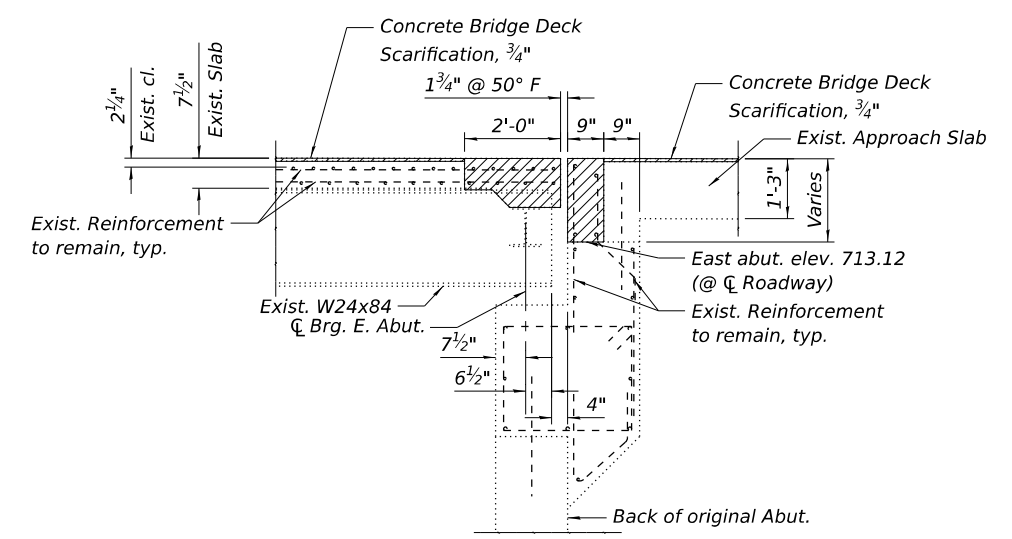


CONCRETE REMOVAL PLAN
East Abutment

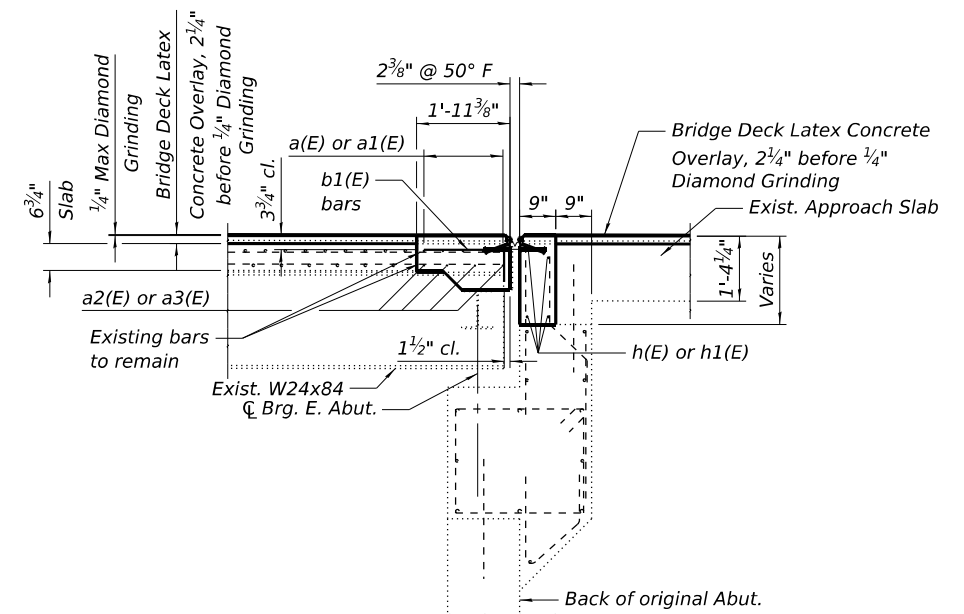


CONCRETE REPLACEMENT PLAN
East Abutment

Notes:
 Existing reinforcement shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
 Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system at the Contractor's expense.
 Removal of existing joint system is included with Concrete Removal.
 See Sheet 7 of 10 for Section Thru Parapet and Bill of Material.
 Dimensions are based on a Rolled Rail Strip Seal Joint. If the contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on sheet 8 of 10.
 Concrete at Joint Replacement areas to receive 1/4" Diamond Grinding at the same time as the Bridge Deck Latex Concrete Overlay.



SECTION C-C



SECTION D-D

LEGEND



MODEL: Sheet 1
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 BENTON ENGINEERING
 JACKSONVILLE, FLORIDA
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 5/8/2026

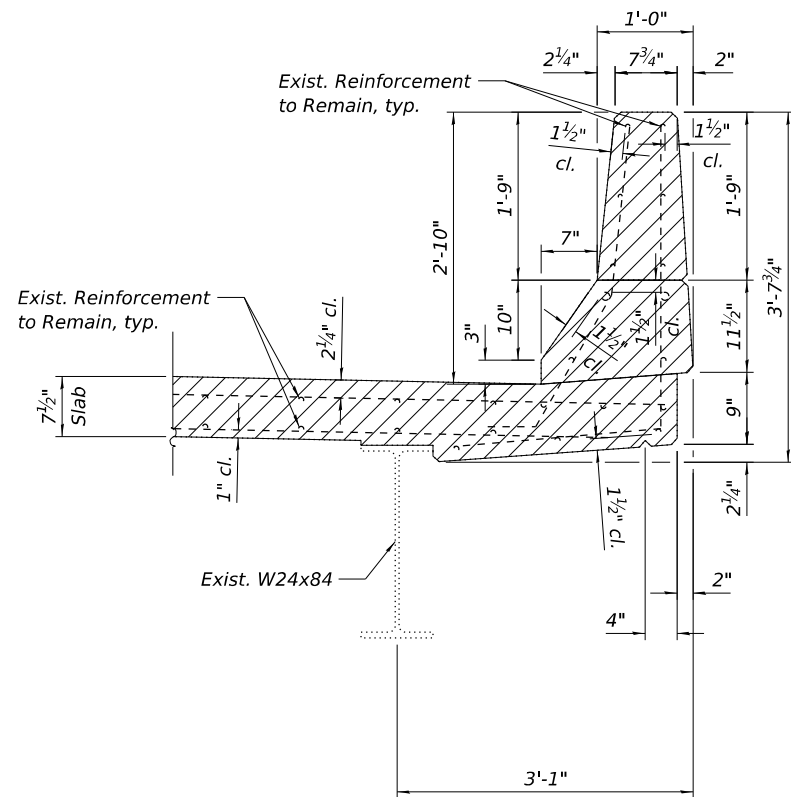
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

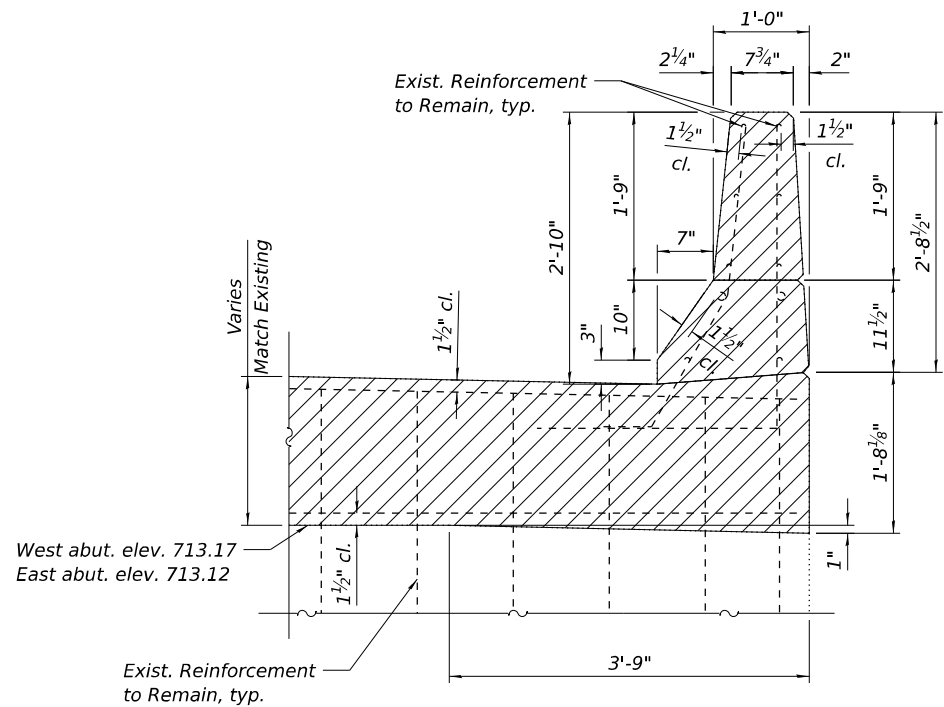
JOINT REMOVAL AND REPLACEMENT DETAILS
SN 071-0037 OVER LEAF RIVER

SHEET 6 OF 10 SHEETS

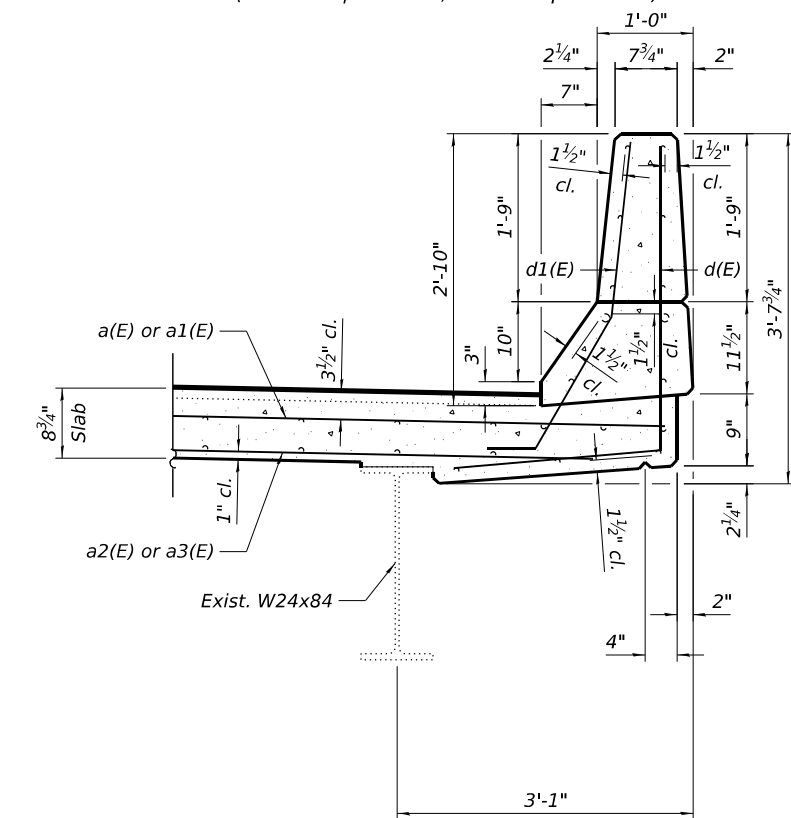
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CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				



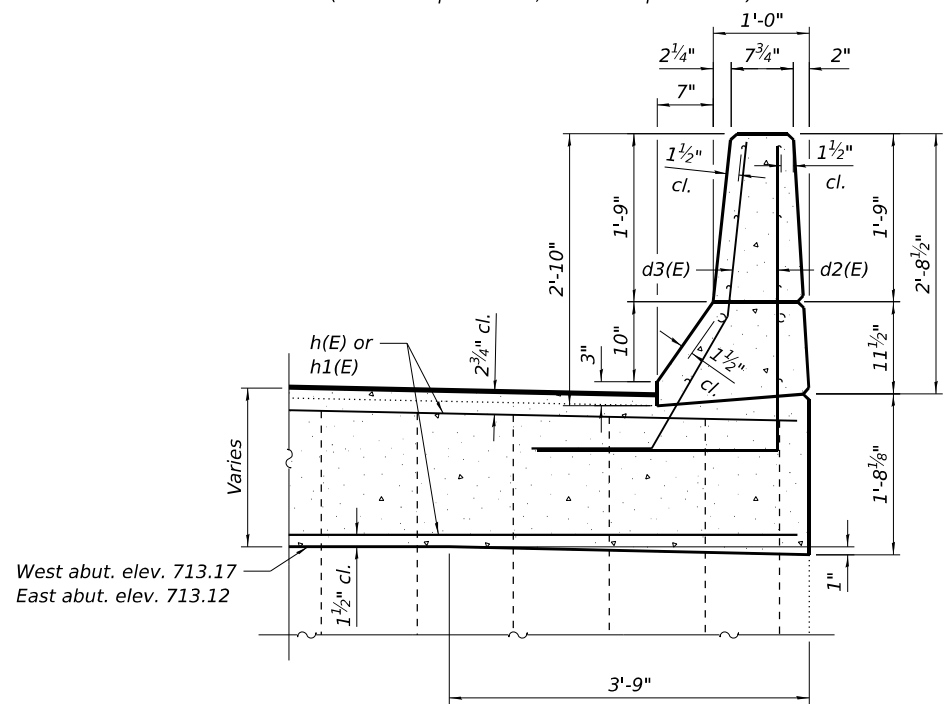
SECTION THRU PARAPET REMOVAL
(South Parapet Shown, North Parapet Similar)



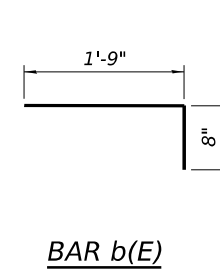
SECTION THRU BACKWALL PARAPET REMOVAL
(South Parapet Shown, North Parapet Similar)



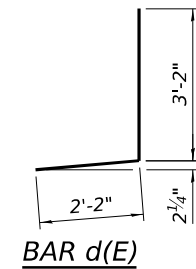
SECTION THRU PARAPET REPLACEMENT
(South Parapet Shown, North Parapet Similar)



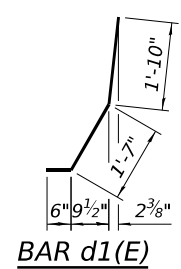
SECTION THRU BACKWALL PARAPET REPLACEMENT
(South Parapet Shown, North Parapet Similar)



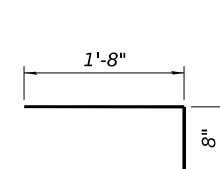
BAR b(E)



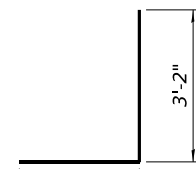
BAR d(E)



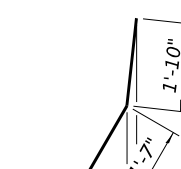
BAR d1(E)



BAR b1(E)



BAR d2(E)



BAR d3(E)

**BILL OF MATERIAL
FOR TWO JOINTS**

Bar	No.	Size	Length	Shape
a(E)	10	#5	16'-9"	—
a1(E)	10	#5	17'-6"	—
a2(E)	8	#5	16'-0"	—
a3(E)	8	#5	16'-9"	—
a4(E)	12	#6	6'-0"	—
b(E)	32	#5	2'-5"	┌
b1(E)	32	#5	2'-4"	┌
d(E)	12	#4	5'-4"	┐
d1(E)	12	#5	3'-11"	┐
d2(E)	8	#4	5'-8"	┐
d3(E)	8	#5	4'-8"	┐
h(E)	8	#6	16'-11"	—
h1(E)	8	#6	17'-8"	—
v(E)	72	#4	2'-2"	—
Concrete Removal			Cu. Yds.	8.9
Reinforcement Bars, Epoxy Coated			Lbs.	1590
Concrete Superstructure			Cu. Yds.	9.3

LEGEND



Concrete Removal

MODEL: Sheet 1
FILE NAME: P:\2025\183-1\Structure\071-0037\Design\Plans\071-0037-D264T07-034 - Joint Removal and Replacement Details.dgn

BENTON ENGINEERING
ILLINOIS DESIGN PROFESSIONAL ENGINEERS
JACKSONVILLE, FLORIDA
MEMBER ILL. BOARD OF PROFESSIONAL ENGINEERS

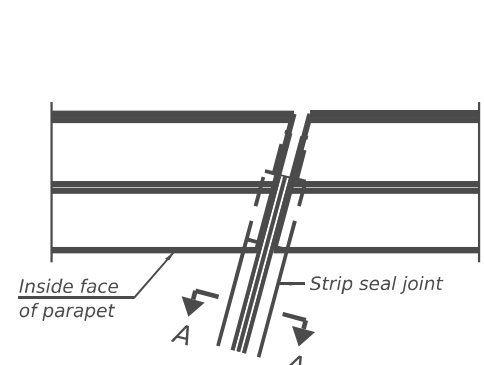
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

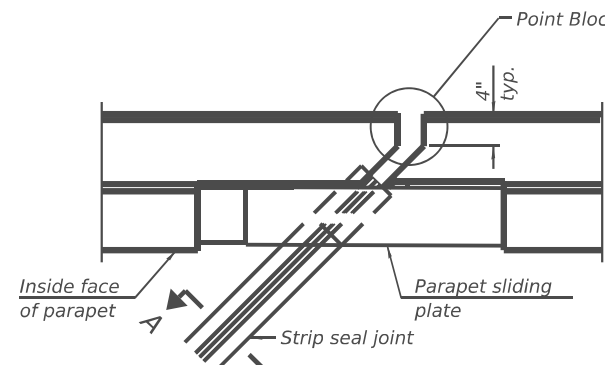
**JOINT REMOVAL AND REPLACEMENT DETAILS
SN 071-0037 OVER LEAF RIVER**

SHEET 7 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

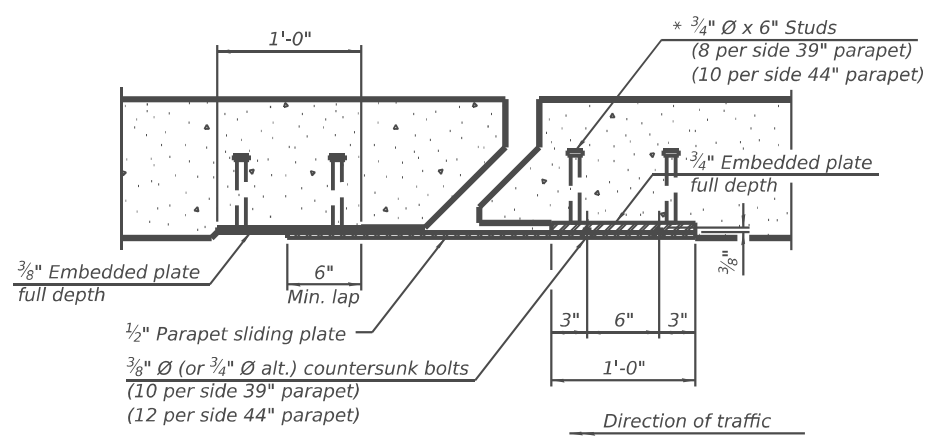


FOR SKEWS $\leq 30^\circ$



FOR SKEWS $> 30^\circ$

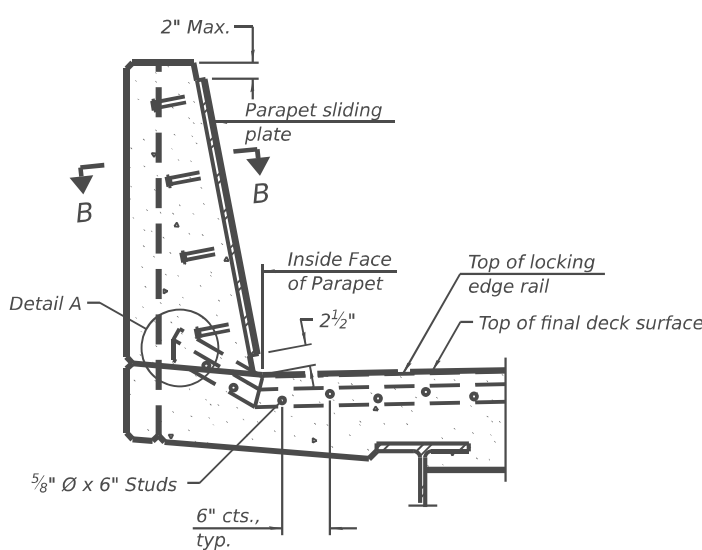
PLAN AT PARAPET



SECTION B-B

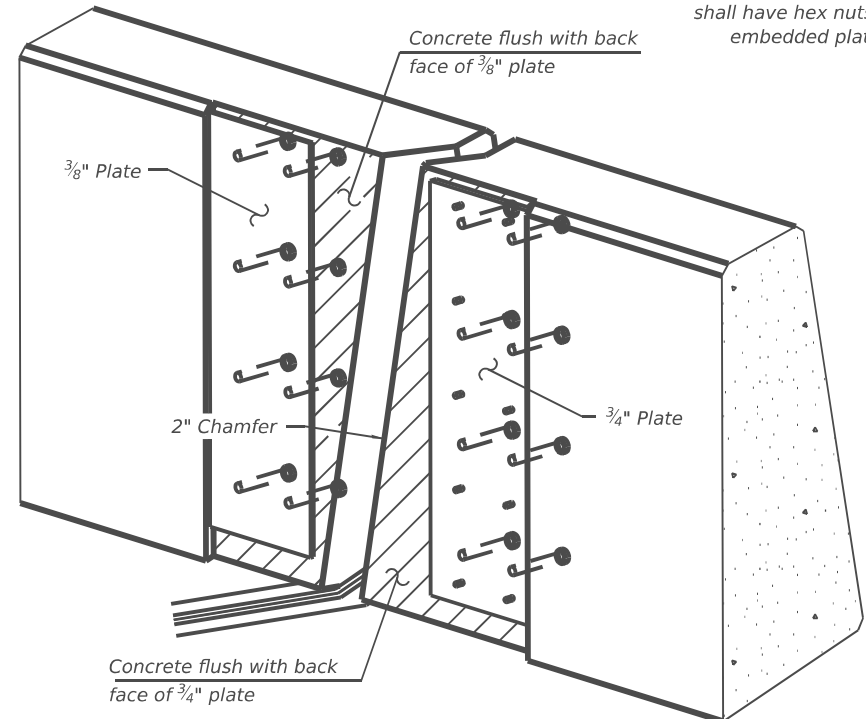
($3/4$ " \varnothing countersunk bolts extending into concrete shall have hex nuts tack welded to the back of the embedded plates with end caps provided.)

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.



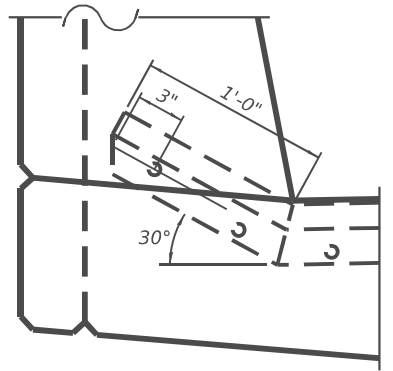
SECTION AT PARAPET

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



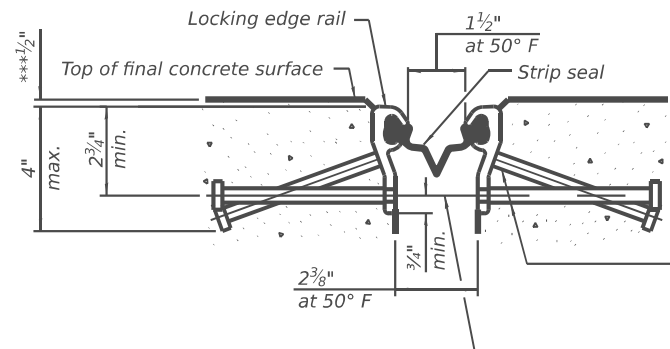
TRIMETRIC VIEW

(Showing embedded plates only)

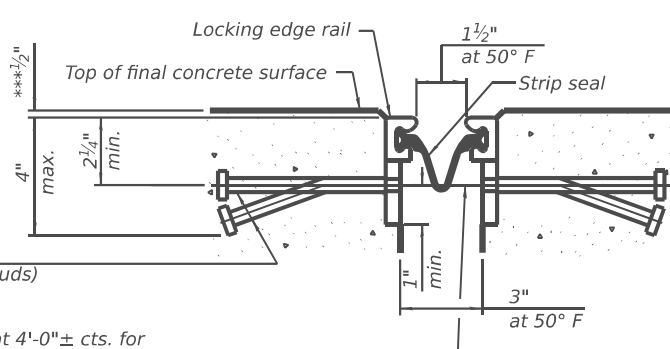


DETAIL A

(Kick-up at parapet locations shown. See sheet of for kick-up at curb locations.)



SHOWING ROLLED RAIL JOINT



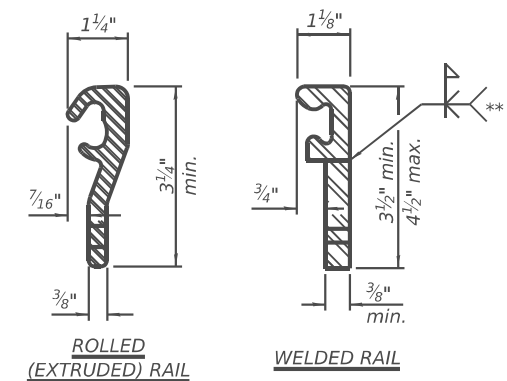
SHOWING WELDED RAIL JOINT

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

$3/8$ " \varnothing threaded rods in $7/16$ " \varnothing holes at $4'-0"$ \pm 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 within 90 minutes after concrete is set.

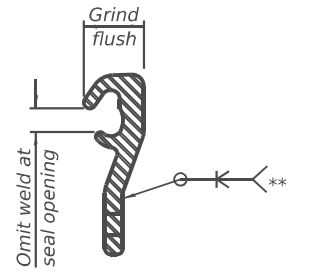
SECTION A-A

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



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	68

MODEL: Sheet 1
 FILE NAME: P:\054183-1\Structure\0710037\Design\Plans\0710037-0261T02-035 -Joint Removal and Reinforcement Details.dwg
 JACKSONVILLE, FLORIDA
 JACKSONVILLE, FLORIDA
 JACKSONVILLE, FLORIDA

EJ-SS 10-3-2025



USER NAME = pdlster	DESIGNED PLD	REVISED -
PLOT SCALE = Full Size 1 = 1	CHECKED MBH	REVISED -
PLOT DATE = 4/2/2026	DRAWN PLD	REVISED -
	CHECKED MBH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

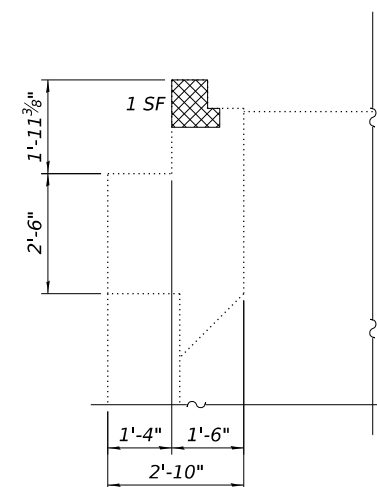
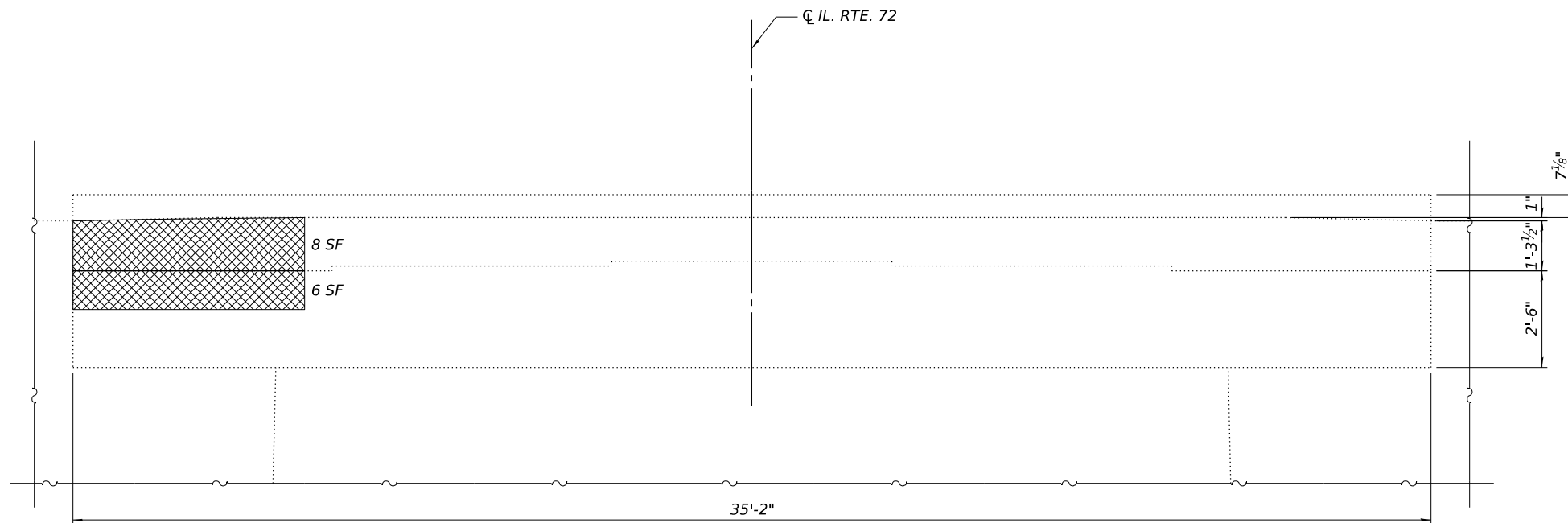
PREFORMED JOINT STRIP SEAL
 SN 071-0037 OVER LEAF RIVER

SHEET 8 OF 10 SHEETS

F.A.P. RTE. 549	SECTION (116BR)&(117BR-1)BDR	COUNTY OGLE	TOTAL SHEETS 47	SHEET NO. 35
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

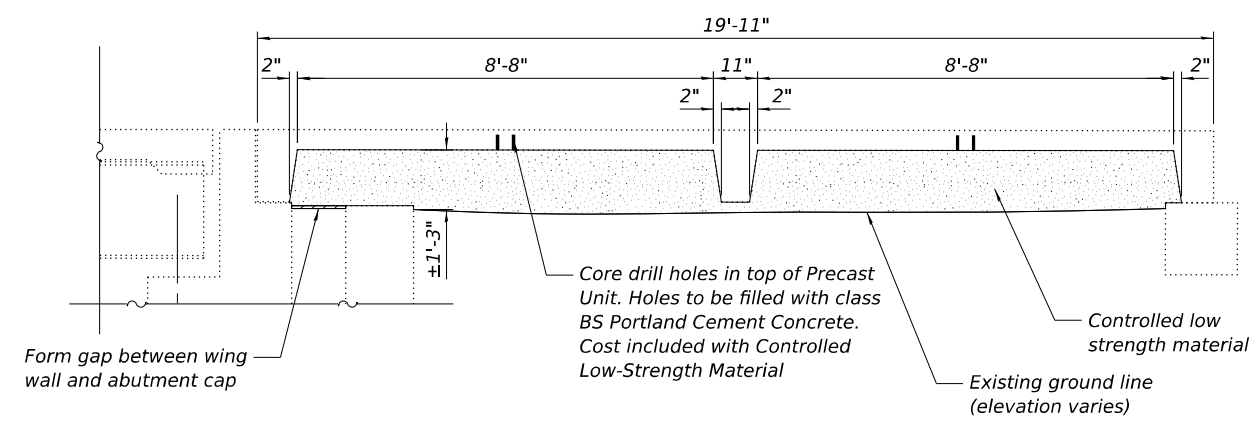
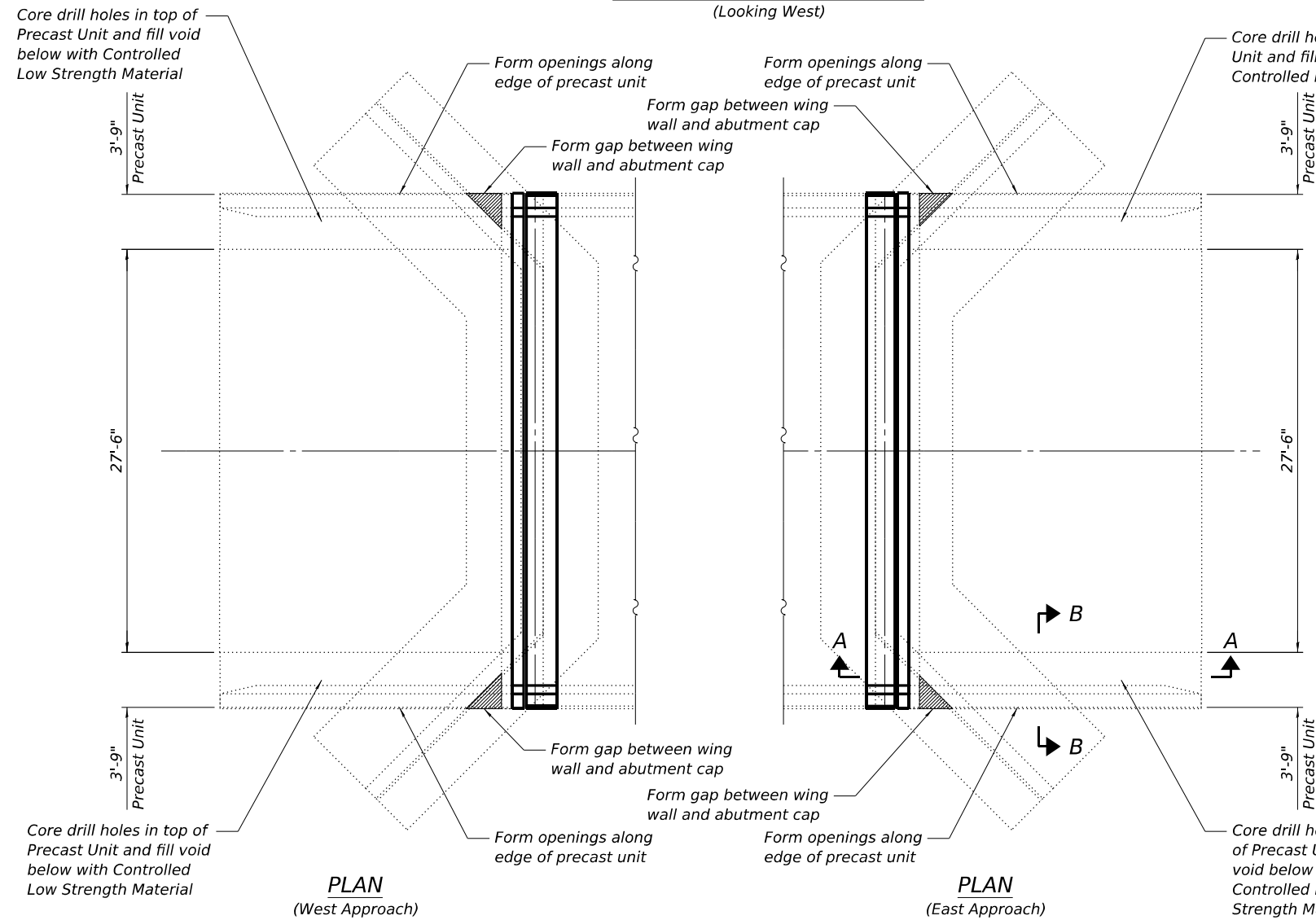
BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	SQ FT	15
Controlled Low-Strength Material	CU YD	13.6

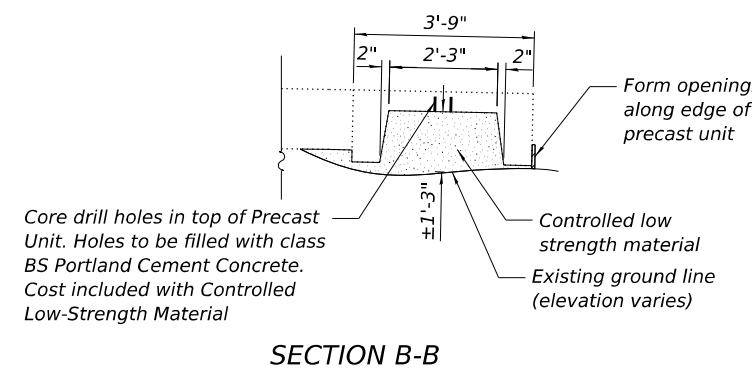


WEST ABUTMENT ELEVATION
(Looking West)

WEST ABUTMENT ELEVATION
(Looking South)



SECTION A-A



SECTION B-B

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- Formwork for Controlled Low Strength Material

MODEL: Sheet 1
FILE NAME: P:\25E4183-1\Structure\071-0037\Design\Plans\0710037-0264T07-036-Abutment and Approach Repairs.dgn

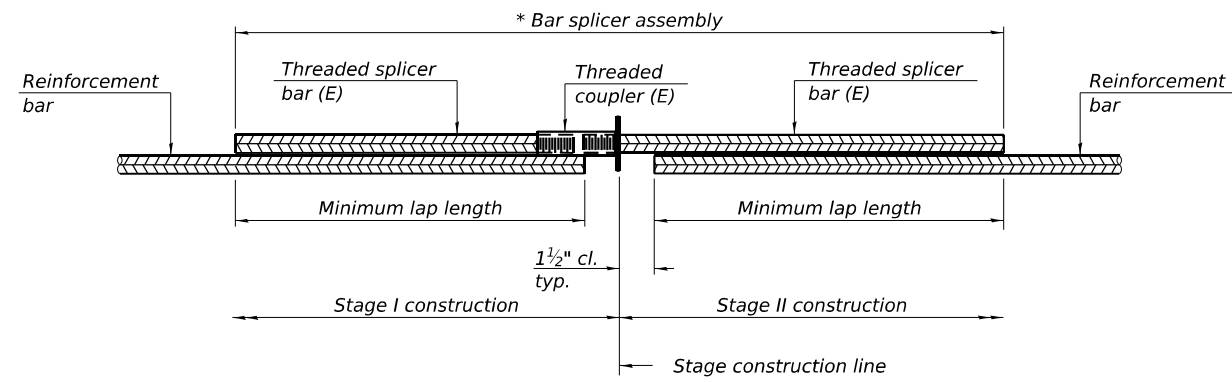
BENTON ENGINEERING
ILLINOIS PROFESSIONAL REGISTERED ENGINEERS
JACKSONVILLE, FLORIDA
MEMBER: I.C.E. REGISTERED PROFESSIONAL ENGINEER & ARCHITECT
MEMBER: I.C.E. REGISTERED PROFESSIONAL ENGINEER & ARCHITECT

USER NAME = clocher	DESIGNED PLD	REVISIONS
DESIGNED PLD	CHECKED MBH	REVISIONS
PLOT SCALE = Full Size 1 = 1	DRAWN PLD	REVISIONS
PLOT DATE = 5/8/2026	CHECKED MBH	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT AND APPROACH REPAIRS
SN 071-0037 OVER LEAF RIVER

F.A.P. RTE. 549	SECTION (116BR)&(117BR-1)BDR	COUNTY OGLE	TOTAL SHEETS 47	SHEET NO. 36
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

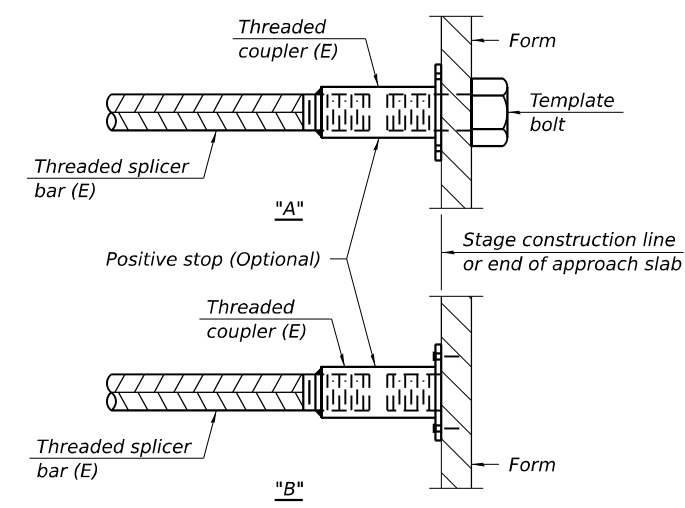


STANDARD BAR SPLICER ASSEMBLY PLAN
 Only bar splicer assemblies as presented on the approved QPL list may be used.

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

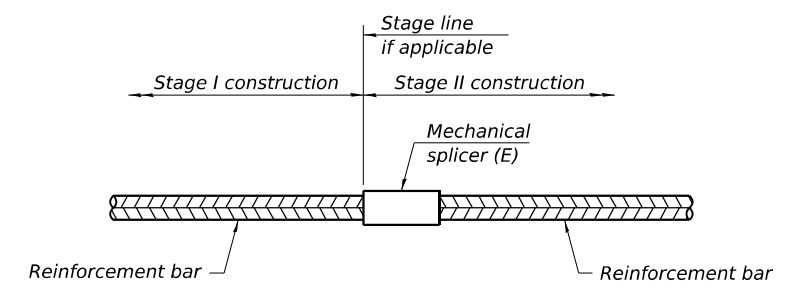
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. End Top of Deck	#5	5	3'-5"
W. End Bot. of Deck	#5	4	3'-10"
W. Abut. Backwall	#6	4	4'-10"
E. End Top of Deck	#5	5	3'-5"
E. End Bot. of Deck	#5	4	3'-10"
E. Abut. Backwall	#6	4	4'-10"



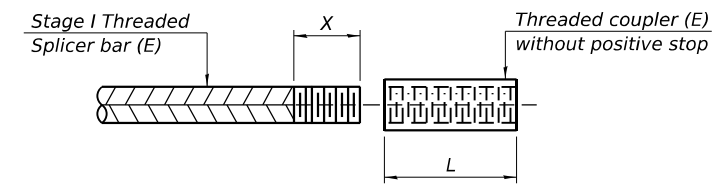
INSTALLATION AND SETTING METHODS

"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



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

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: Sheet 1
 FILE NAME: P:\2025\183-1\Structure #071-0037\Design\Plans\0710037-0264T07-037 - Bar Splicer Assembly and Mechanical Splicer Details.dgn

BSD-1

4-4-2025



USER NAME = clocher	DESIGNED PLD	REVISED -
	CHECKED MBH	REVISED -
PLOT SCALE = Full Size 1 = 1	DRAWN PLD	REVISED -
PLOT DATE = 5/8/2026	CHECKED MBH	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

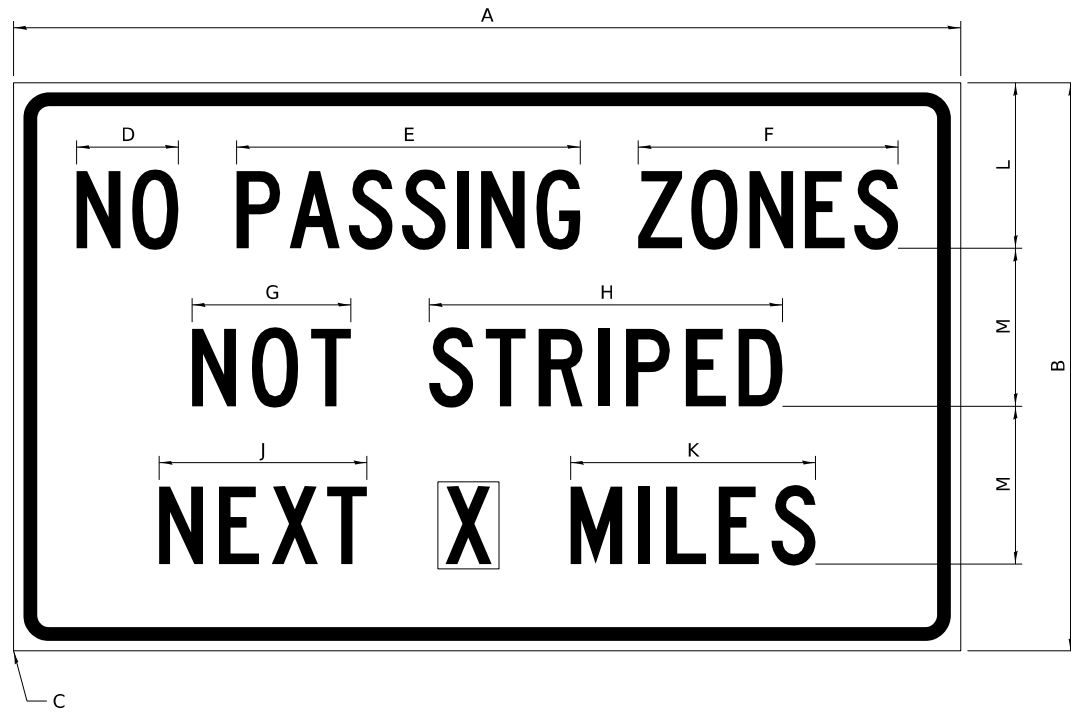
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 071-0037 OVER LEAF RIVER**

SHEET 10 OF 10 SHEETS

F.A.P. RTE. 549	SECTION (116BR)&(117BR-1)BDR	COUNTY OGLE	TOTAL SHEETS 47	SHEET NO. 37
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100(F0)



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

GENERAL NOTES

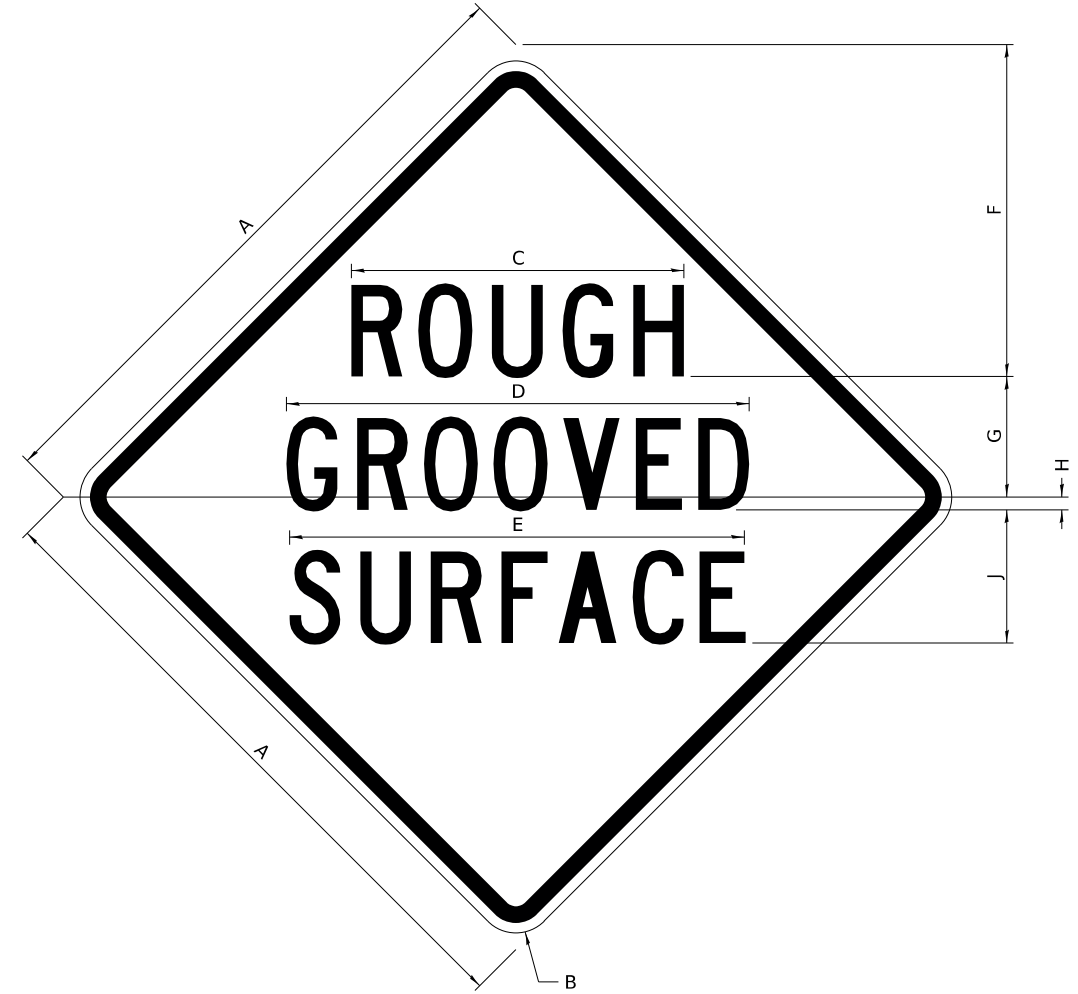
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

MODEL: D2 34.1 (Sheet) FILE NAME: P:\26E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 5-22-25
	DRAWN -	REVISED - 3-02-16
	CHECKED -	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

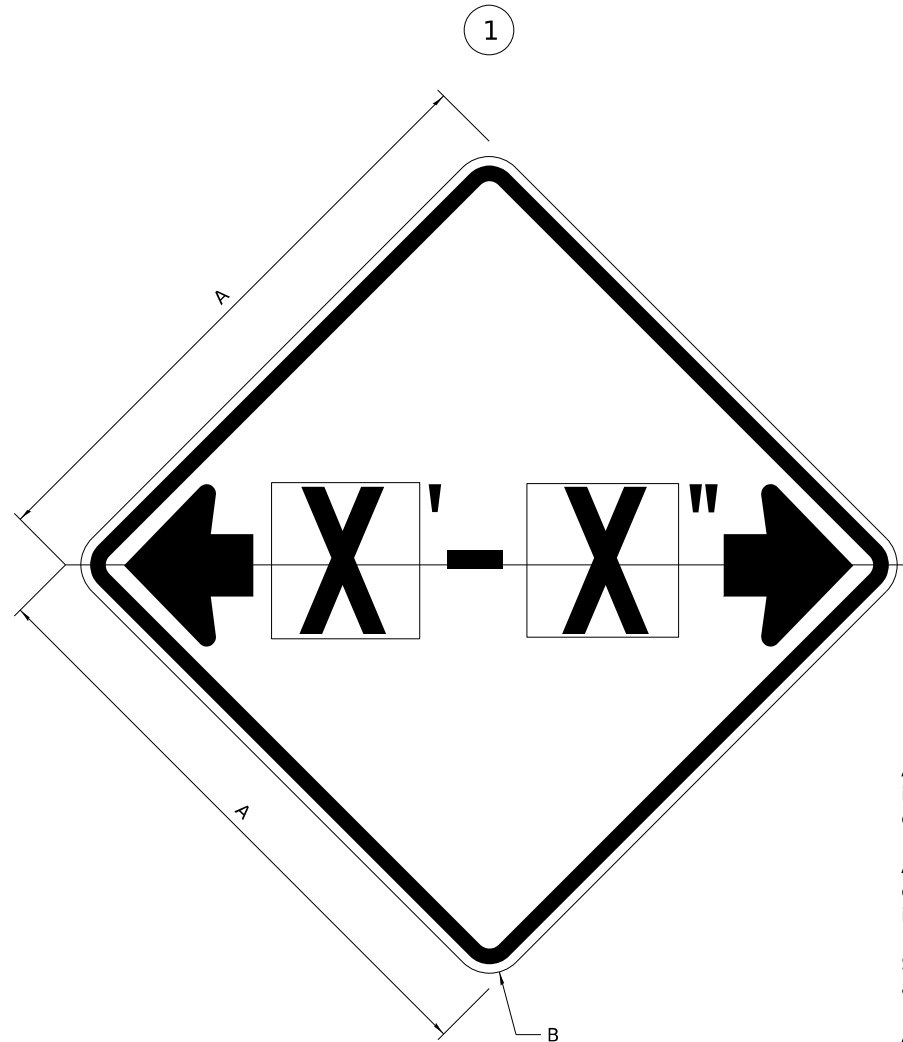
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

D2 DETAILS			
SN 071-0036 & SN 071-0037			
SCALE:	SHEET 1	OF 4 SHEETS	STA. TO STA.

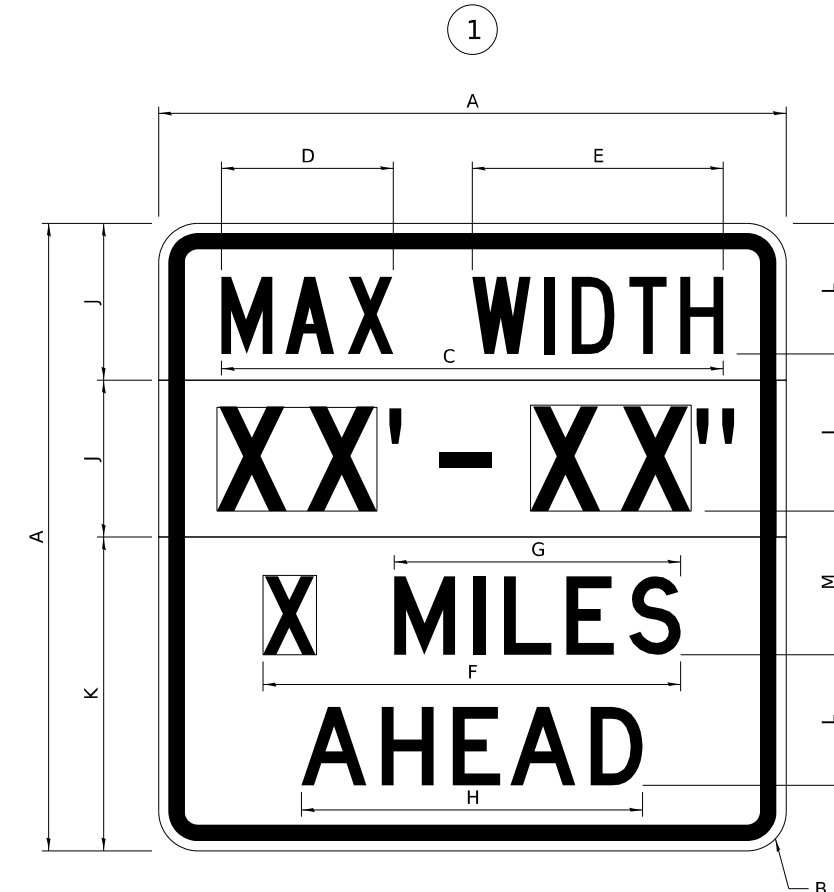
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	38
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



ILLINOIS STANDARD W12-I103



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

MODEL: D2 34.1 - 2 (Sheet)
FILE NAME: P:\26E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D2 DETAILS
SN 071-0036 & SN 071-0037

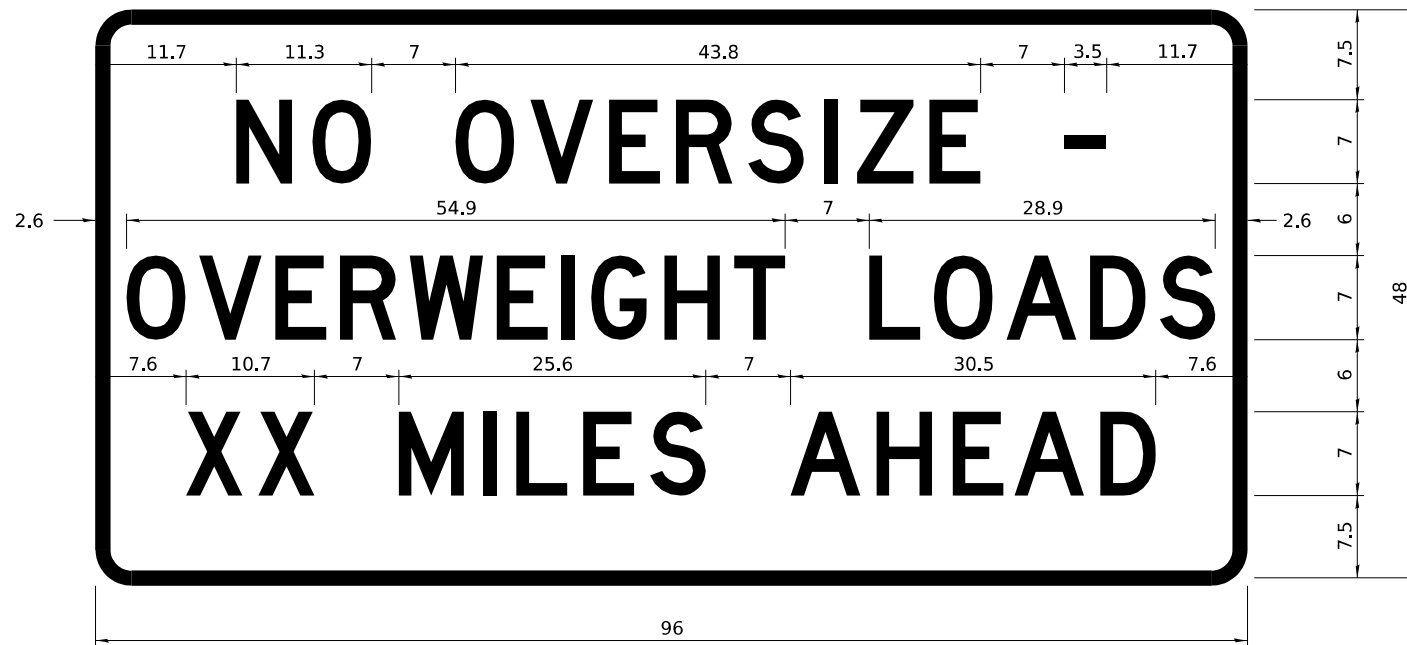
SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	39
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

MODEL: D2 34.1 - 3 (Sheet)
FILE NAME: P:\26E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D2 DETAILS
SN 071-0036 & SN 071-0037

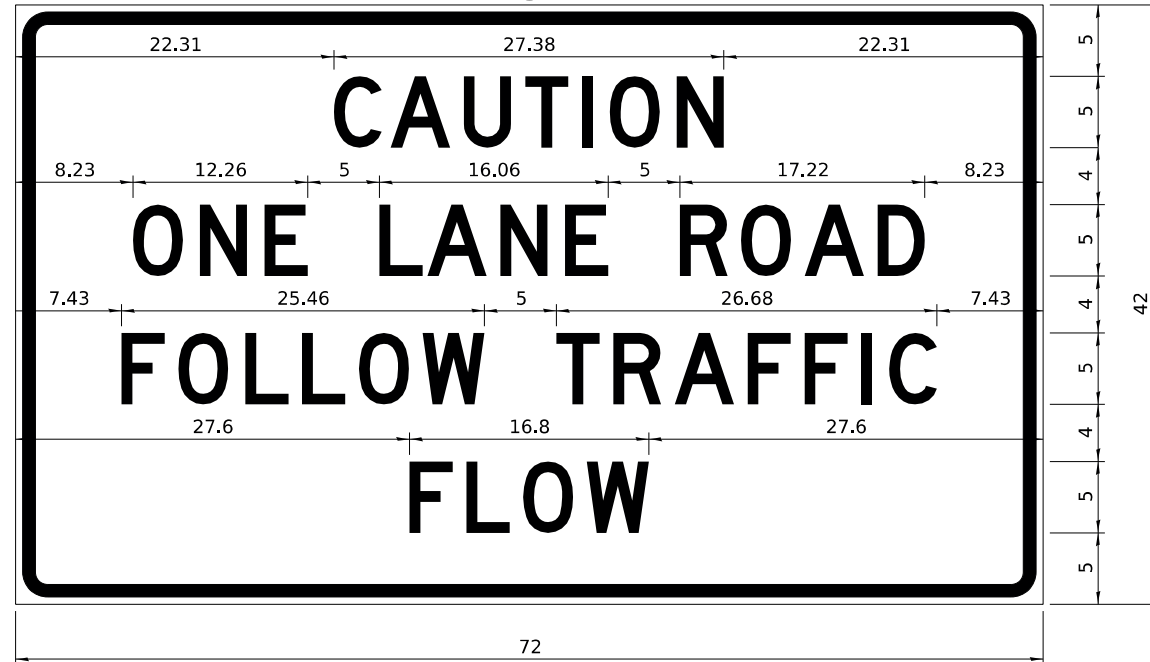
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	40
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS

2



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

Sign not to scale

GENERAL NOTES

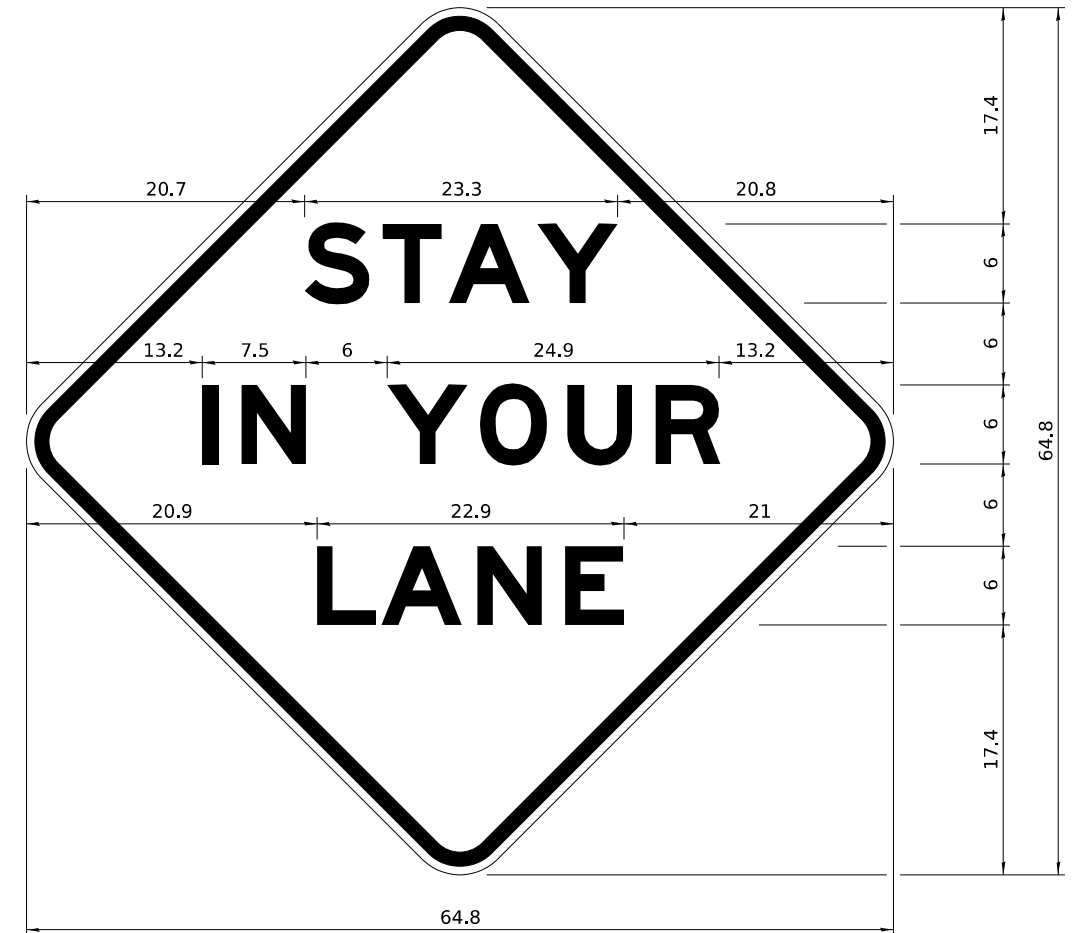
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

MODEL: D2 34.1 - 4 (Sheet)
FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

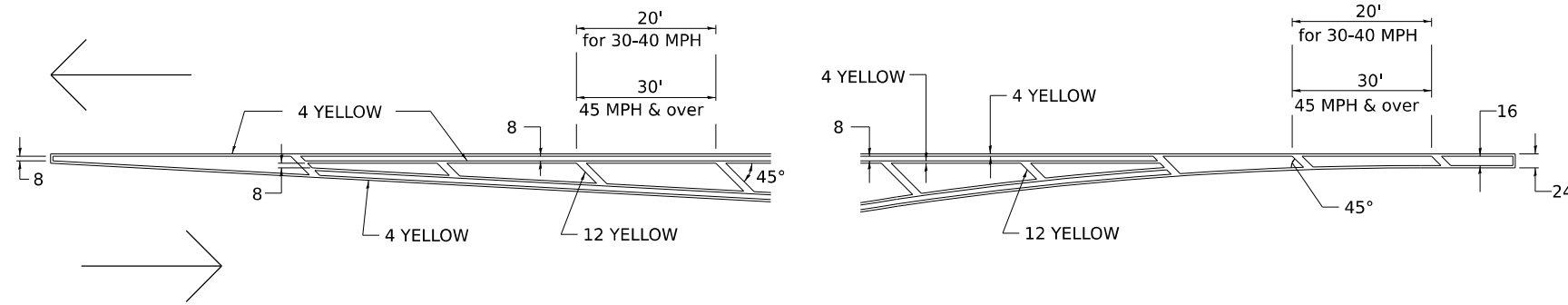
**D2 DETAILS
SN 071-0036 & SN 071-0037**

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

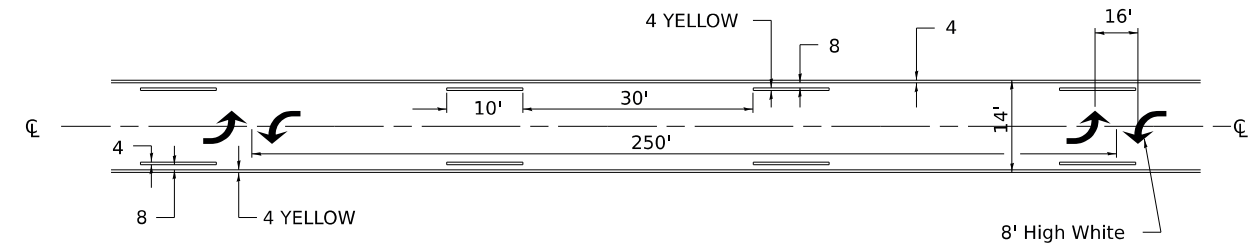
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	41
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

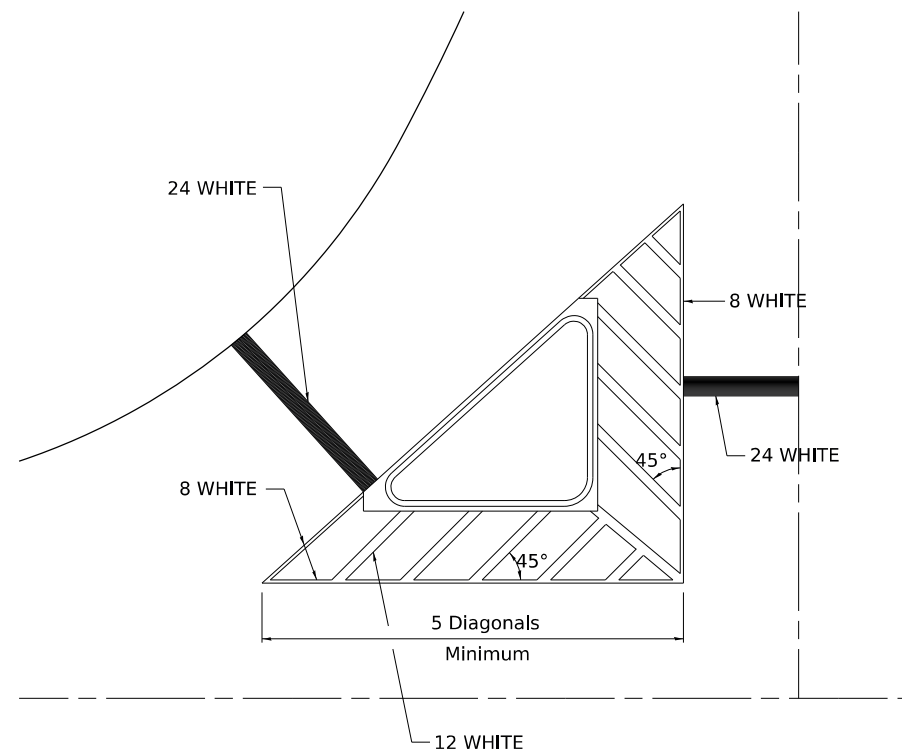


MEDIAN PAVEMENT MARKING



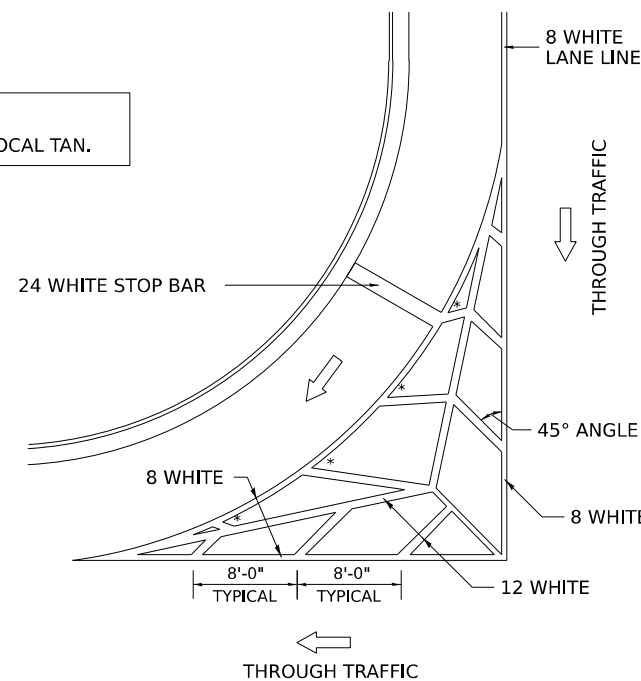
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



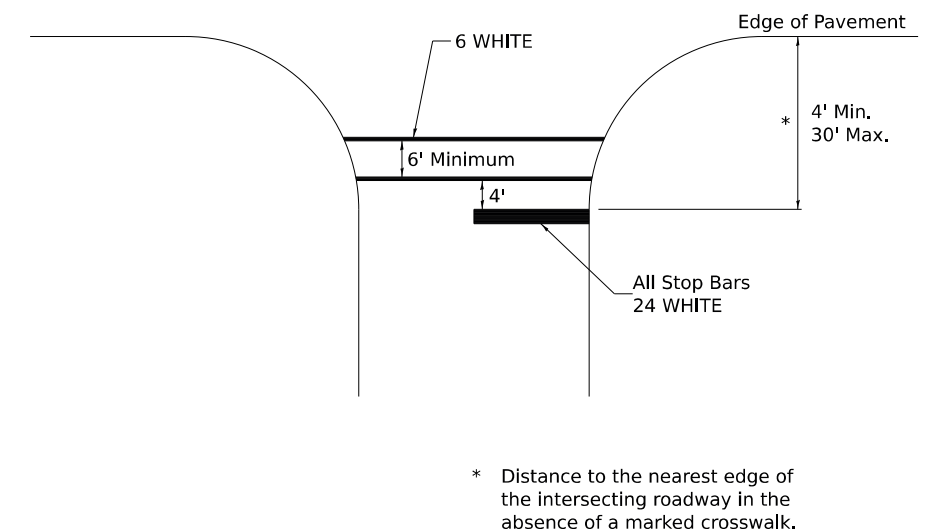
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

MODEL: D2 41.1 (Sheet)
FILE NAME: P:\2025\4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 3-05-12
	CHECKED -	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

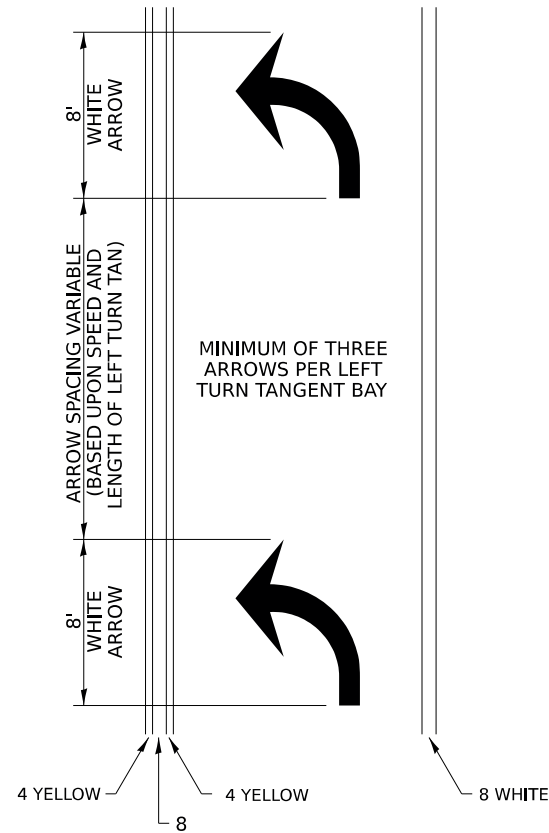
D2 DETAILS
SN 071-0036 & SN 071-0037

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	42
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

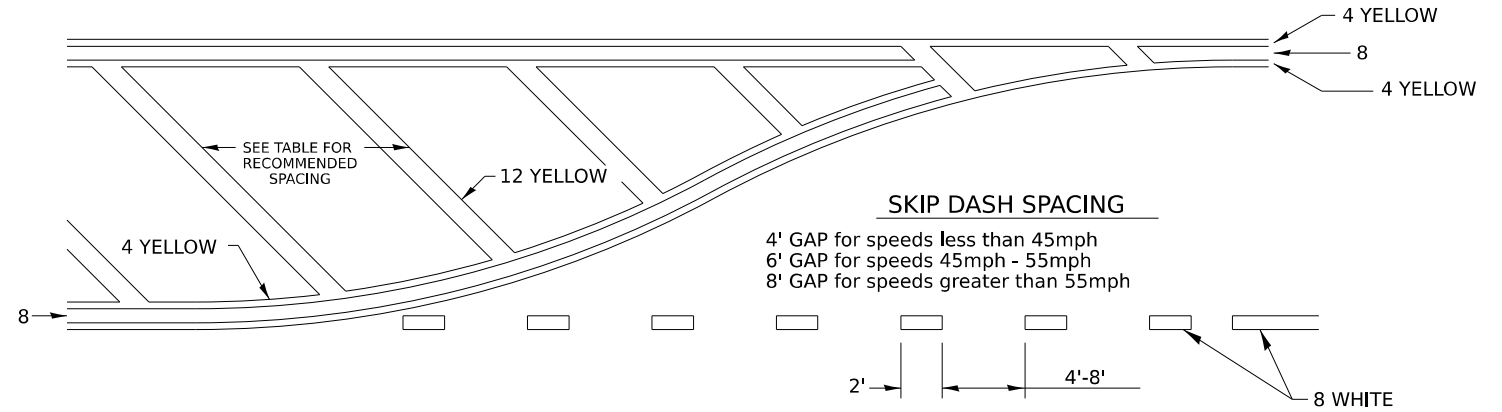


SYMBOLS

- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

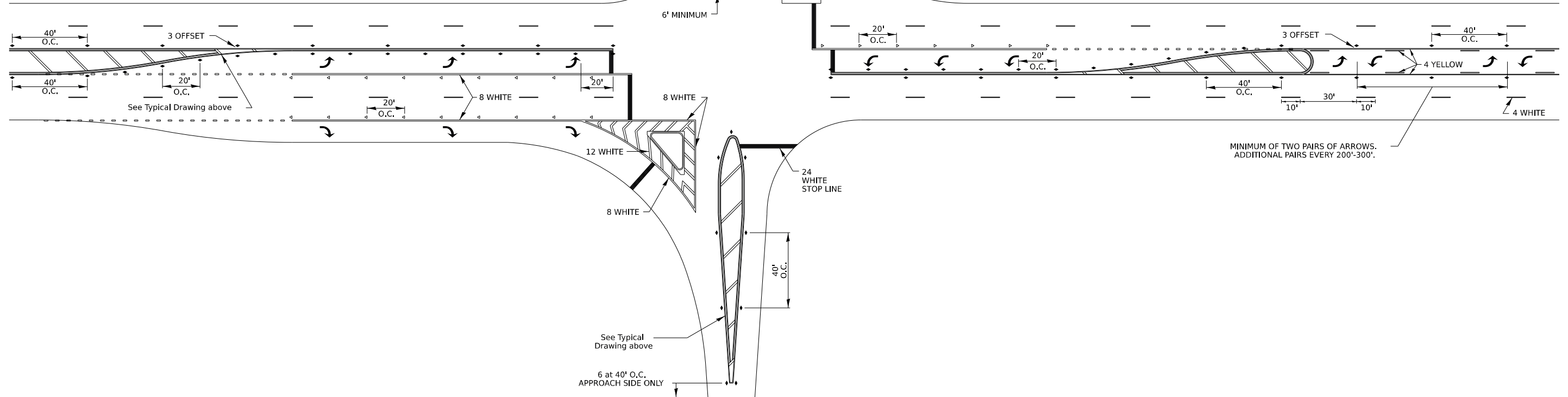
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



MODEL: D2 41.1 - 2 (Sheet)
FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 3-05-12
	CHECKED -	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

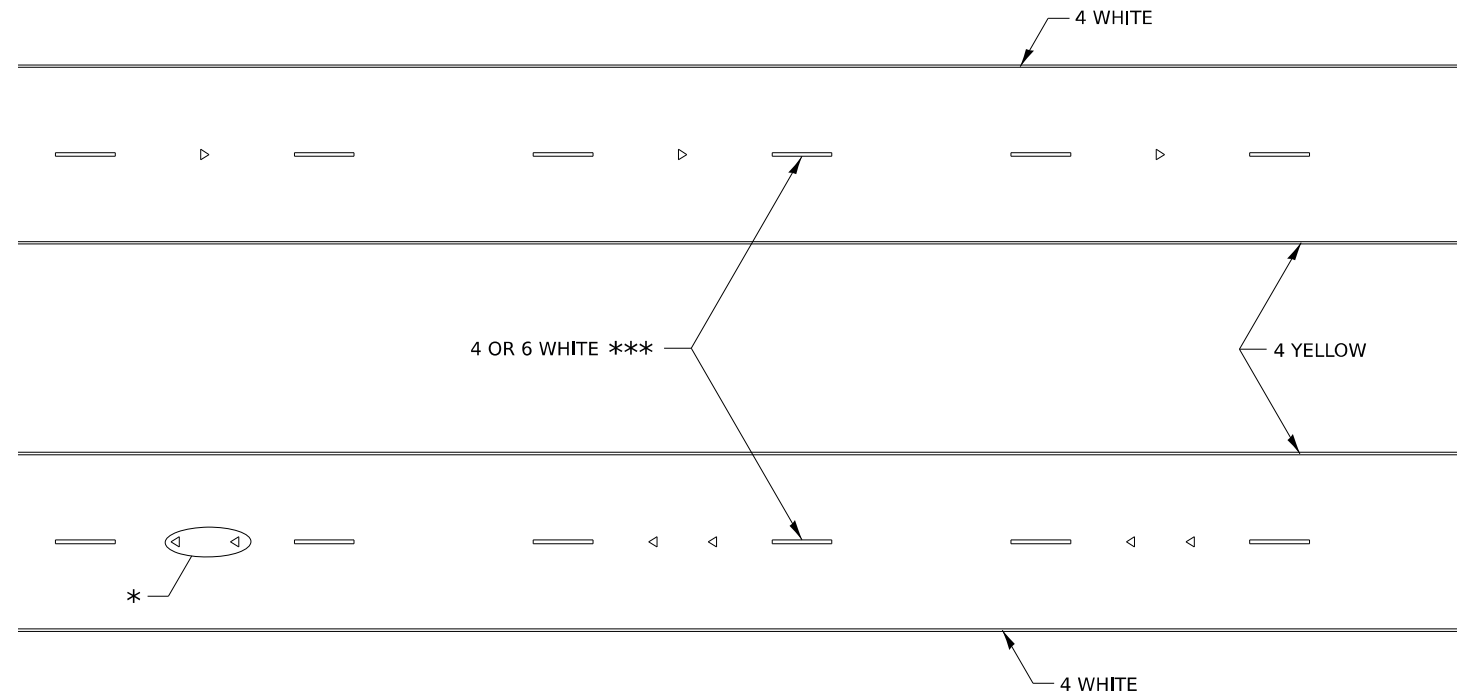
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D2 DETAILS
SN 071-0036 & SN 071-0037

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

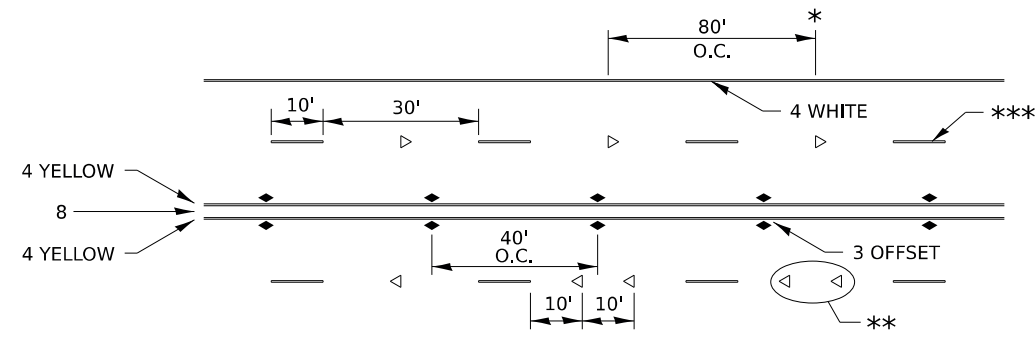
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	43
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

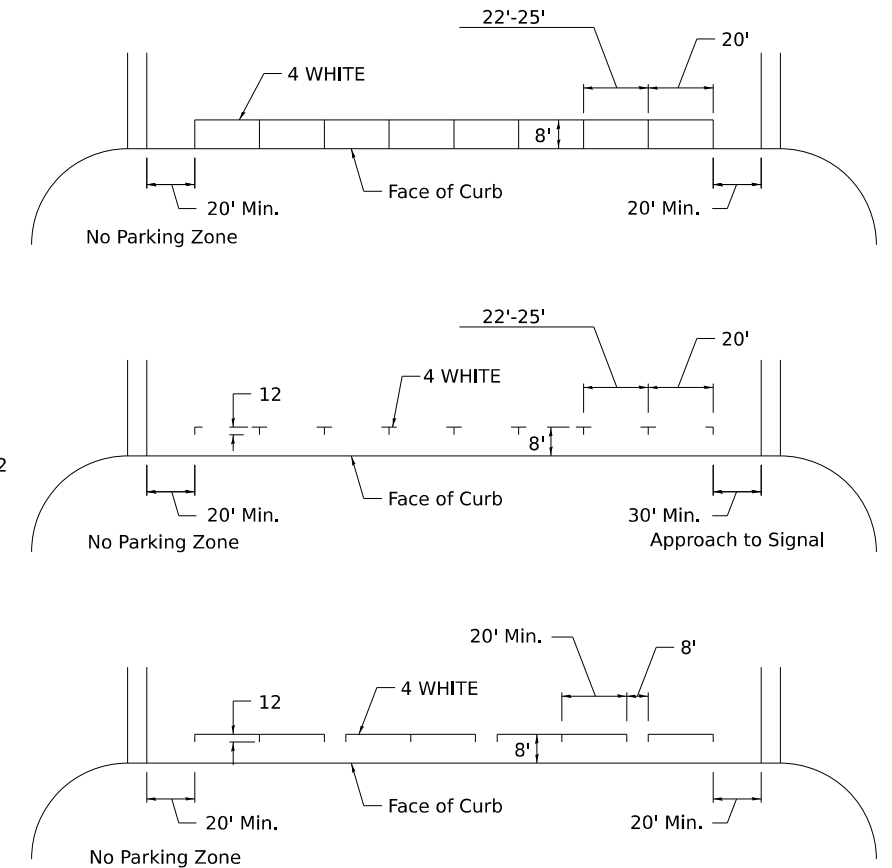
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

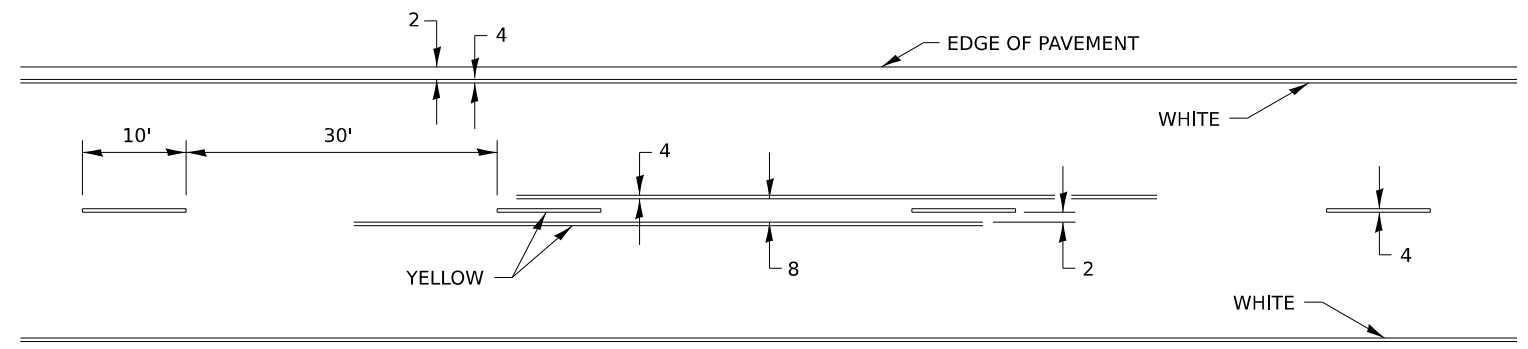
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



MODEL: D2 41.1 - 3 (Sheet)
FILE NAME: P:\26E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 8-27-13
	CHECKED -	REVISED - 11-28-12
PLOT DATE = 4/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D2 DETAILS
SN 071-0036 & 071-0037

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

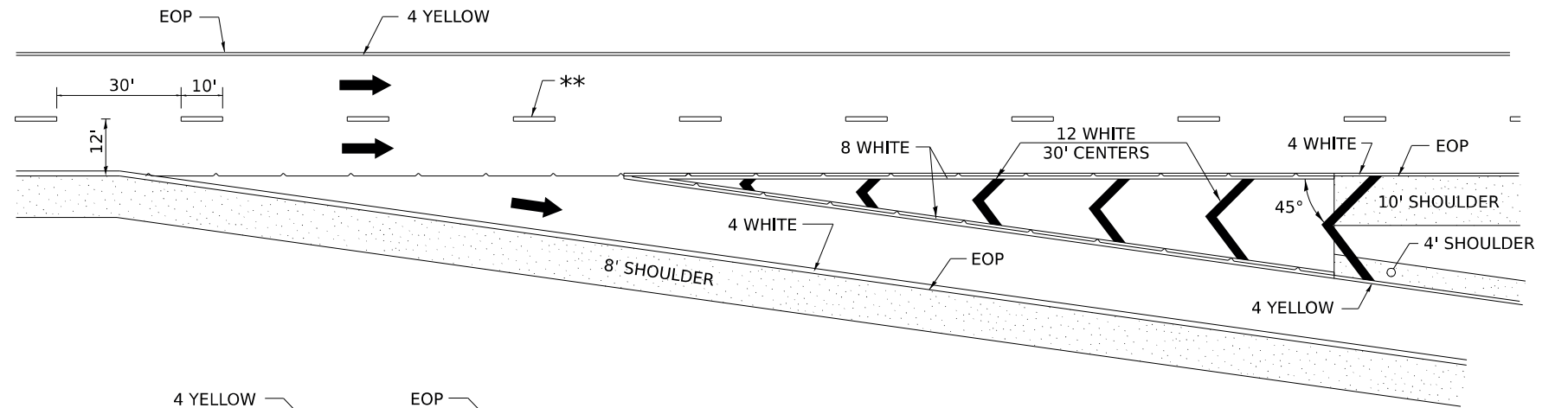
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	44
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

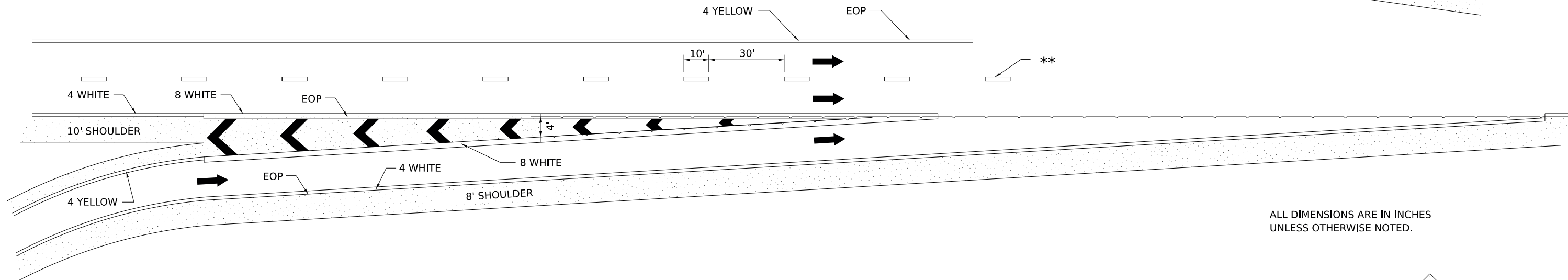
** 6" WHITE ON INTERSTATES, WHERE THE SPPD LIMIT IS 65 MPH, OR WHEN DIRECTED BY THE ENGINEER.
4" WIDE AT ALL OTHER LOCATIONS.

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

EXIT RAMP

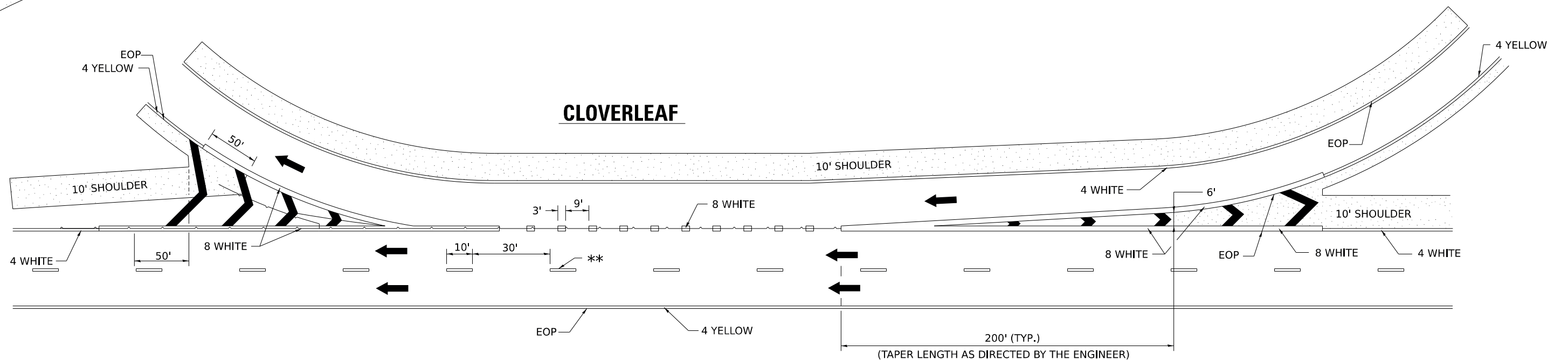


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



MODEL: D2 41.1 - 4 (Sheet)
FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 9-15-23
	DRAWN -	REVISED - 8-27-13
	CHECKED -	REVISED - 10-18-11
PLOT DATE = 4/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

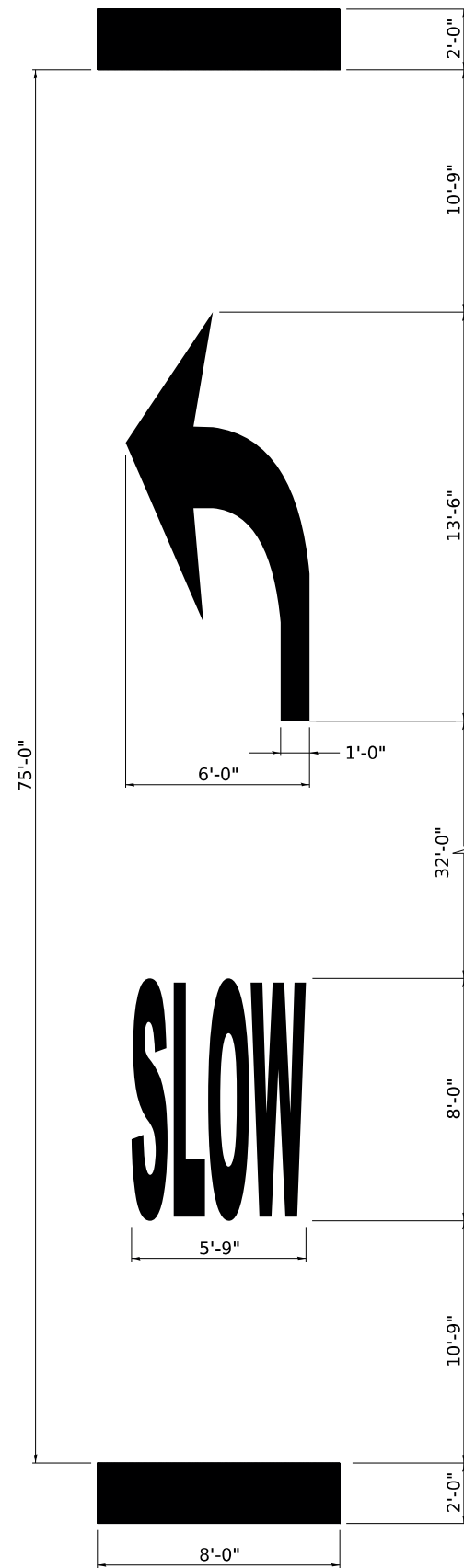
D2 DETAILS
SN 071-0036 & SN 071-0037

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	45
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				

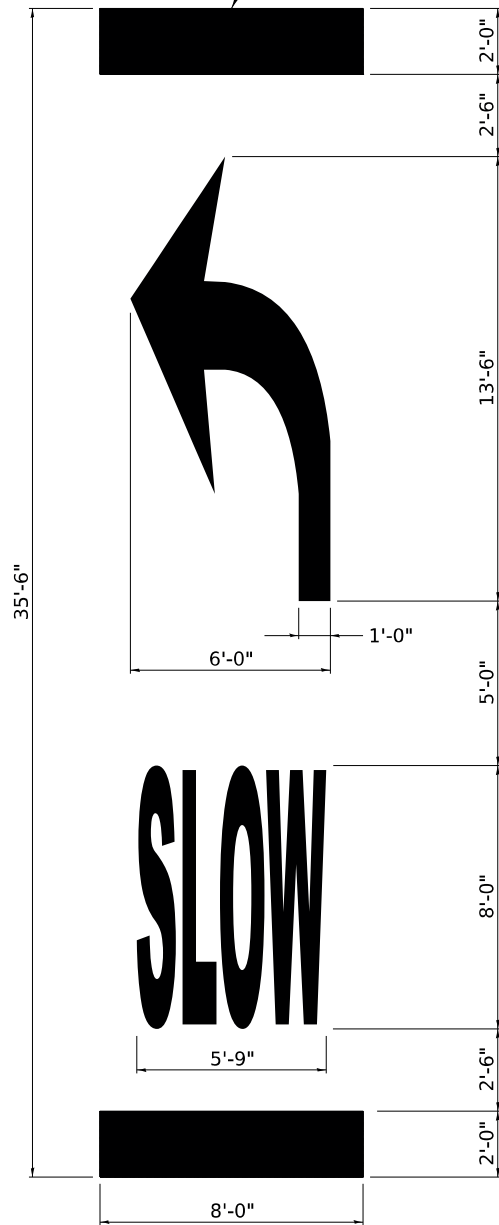
TYPICAL PAVEMENT MARKINGS

EDGE OF 24" PAVEMENT MARKING SHOULD CORRESPOND TO REFERENCE POINT SET IN FIELD.



**SLOW CURVE ARROW
HIGH-SPEED STANDARD MARKING**

(POSTED SPEED LIMIT 40 MPH OR GREATER)



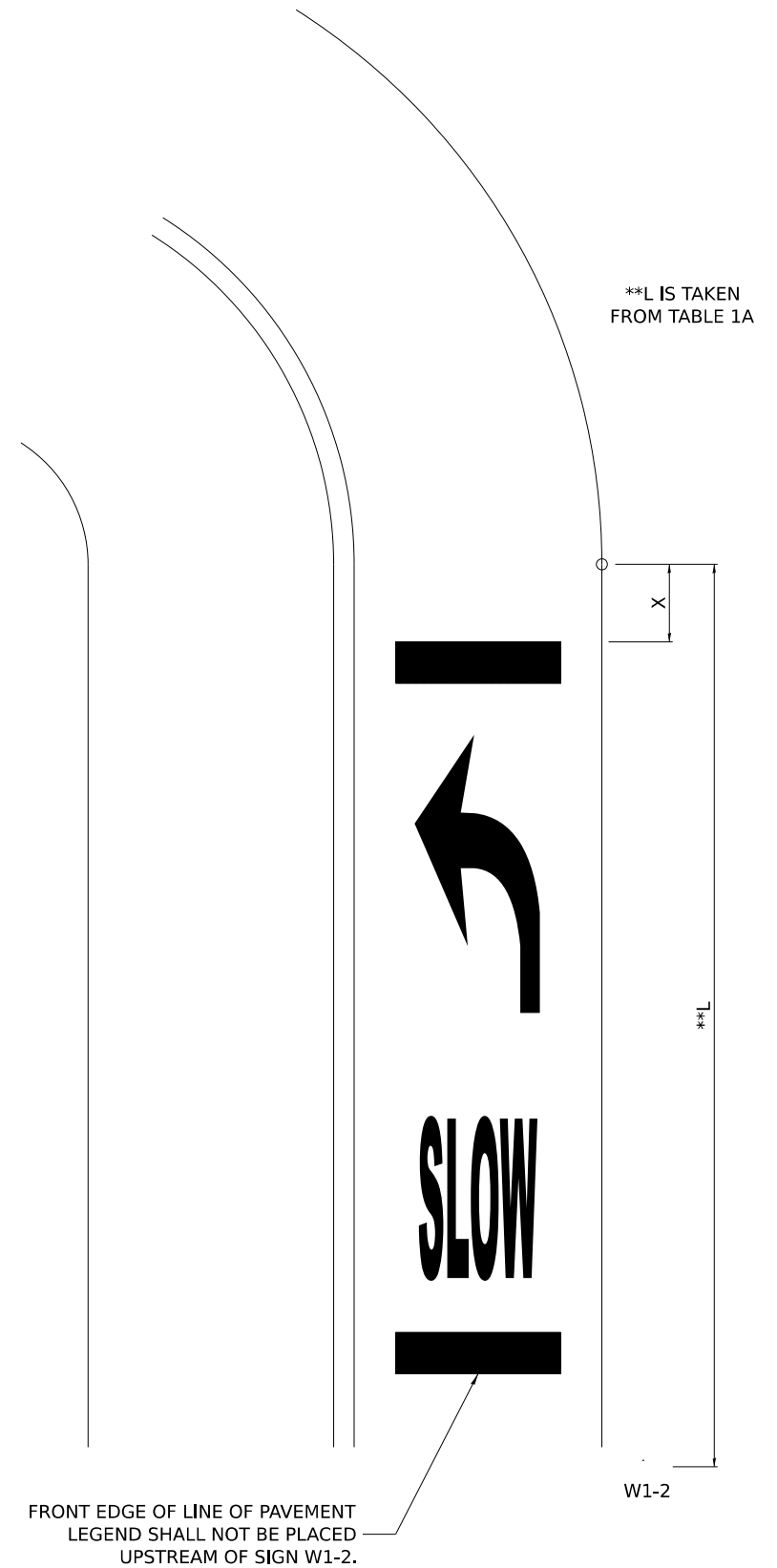
**SLOW CURVE ARROW
LOW-SPEED STANDARD MARKING**

(POSTED SPEED LIMIT 35 MPH OR LESS)

TABLE 1A

POSTED SPEED	WARNING SPEED							
	20	25	30	35	40	45	50	55
VALUE OF X (FT.)								
20 *	100							
25 *	100	100						
30 *	100	100	100					
35 *	100	100	100	100				
40 *	100	100	100	100	100			
45 *	125	110	100	100	100	100		
50 *	225	200	175	135	100	100	100	
55 *	300	275	250	200	175	135	100	100

* NOTE: ON ROADWAYS WITH A POSTED SPEED LIMIT OF 35 MPH OR LESS, USE THE 35'-6" PAVEMENT MARKING LEGEND AS SHOWN IN THE SLOW CURVE ARROW, LOW-SPEED STANDARD MARKING. ON ALL OTHER ROADWAYS, USE THE 50'-0" PAVEMENT MARKING LEGEND AS SHOWN ON THE SLOW CURVE ARROW, HIGH-SPEED STANDARD MARKING.



**TYPICAL LAYOUT AND PLACEMENT OF
SUPPLEMENTAL CURVE PLACEMENT MARKING**

MODEL: D2 41.1 - 5 (Sheet)
FILE NAME: P:\26E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 10-8-25
	DRAWN -	REVISED - 4-17-25
	CHECKED -	REVISED -
PLOT DATE = 4/2/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

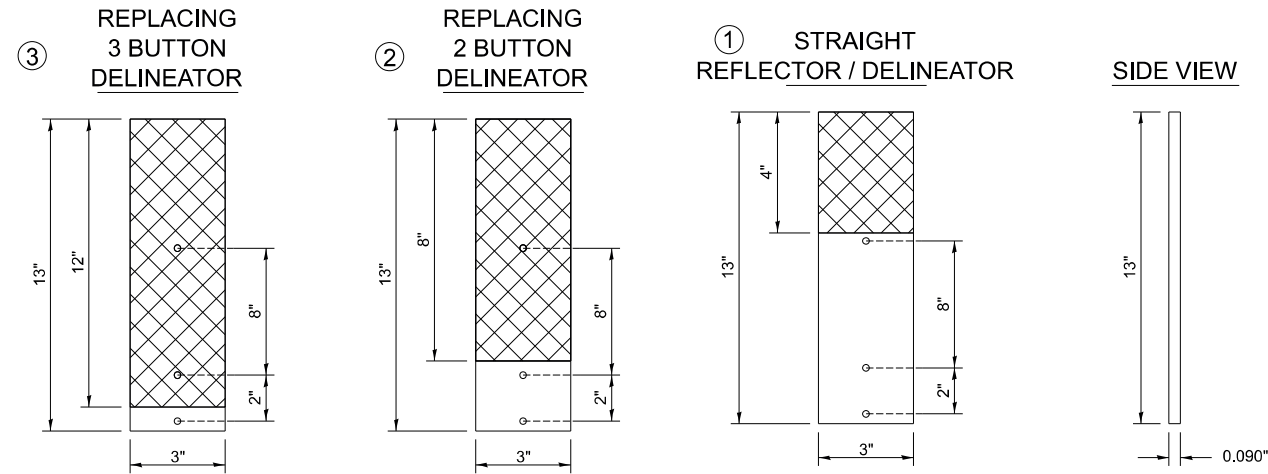
D2 DETAILS
SN 071-0036 & SN 071-0037

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	46
CONTRACT NO. 64T47				
ILLINOIS FED. AID PROJECT				

REFLECTORS (SPECIAL)

DELINEATOR REPLACEMENT



NOTE:

REFLECTOR REPLACEMENT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH INCLUDES ALL MOUNTING HARDWARE OUTLINED IN SECTION 635 OF THE SPEC BOOK.

DELINEATOR INSTALLATION (REFLECTOR AND POST) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DELINEATORS (SPECIAL), WHICH INCLUDES ALL MOUNTING HARDWARE OUTLINED IN SECTION 635 OF THE SPEC BOOK.

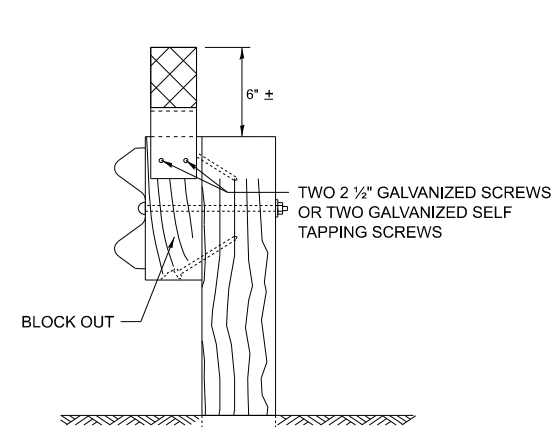
REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER OR IN THE MEDIAN SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE YELLOW.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ON THE OUTSIDE OF THE ROADWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

REFLECTORS FOR GUARDRAIL BLOCK OUT OR DELINEATOR POST

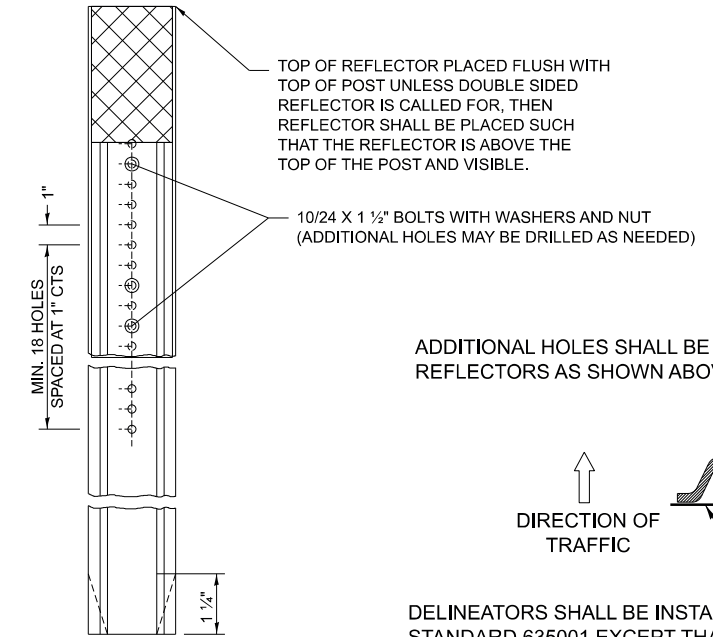


MOUNTED ON A GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO BLOCK OUTS.

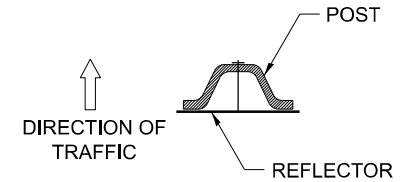
REFLECTORS MOUNTED ON WOODEN OR PLASTIC OR METAL BLOCK OUT SHALL BE MOUNTED USING TWO 2 1/2" GALVANIZED SCREWS WITH WASHERS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

ADDITIONAL SHEETING MAY BE ADDED AS NEEDED FOR TURN AROUNDS AS SHOWN IN THE PLANS



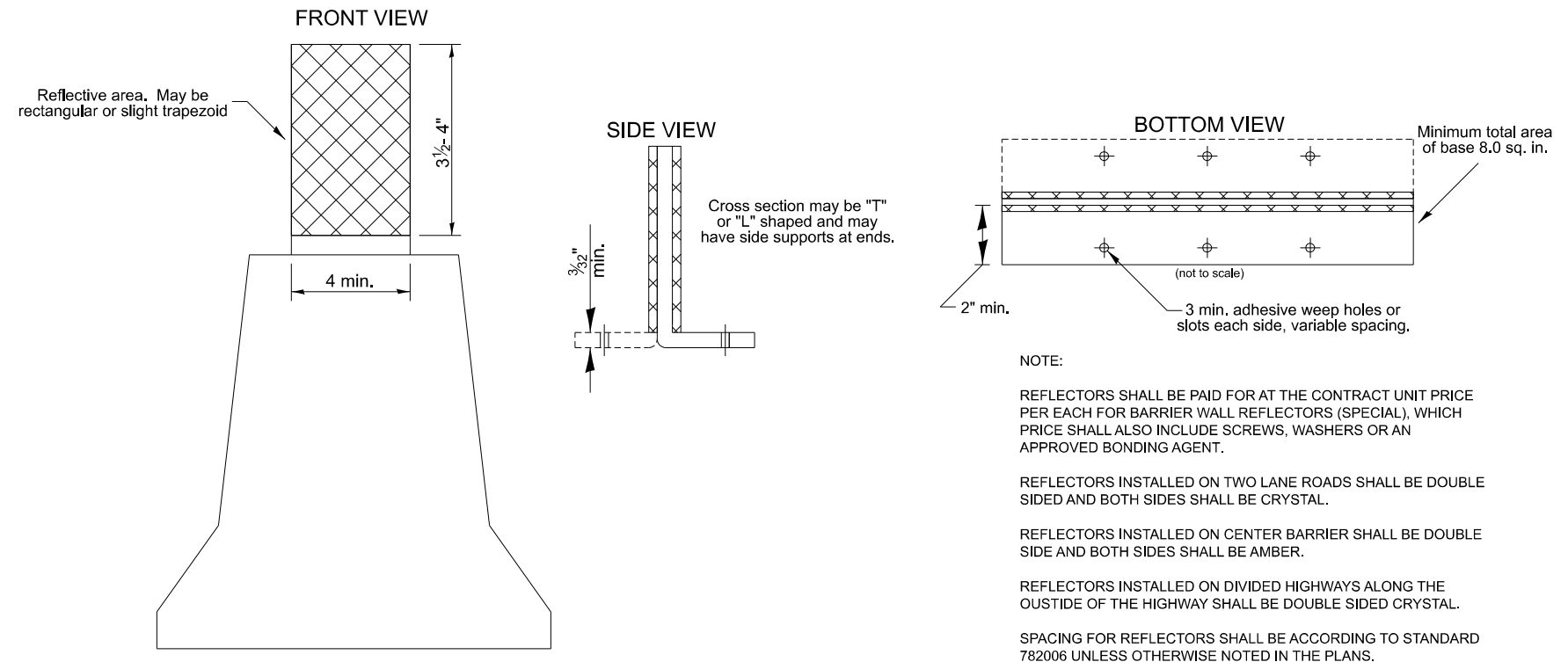
MOUNTED ON A DELINEATOR POST

ADDITIONAL HOLES SHALL BE DRILLED IN THE REFLECTORS AS SHOWN ABOVE.



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE REFLECTOR ATTACHED AS SHOWN ABOVE.

REFLECTORS MOUNTED ON BARRIER WALL



NOTE:

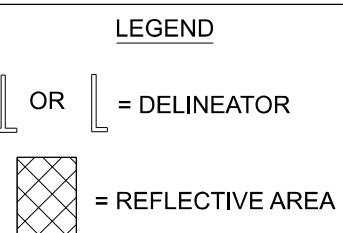
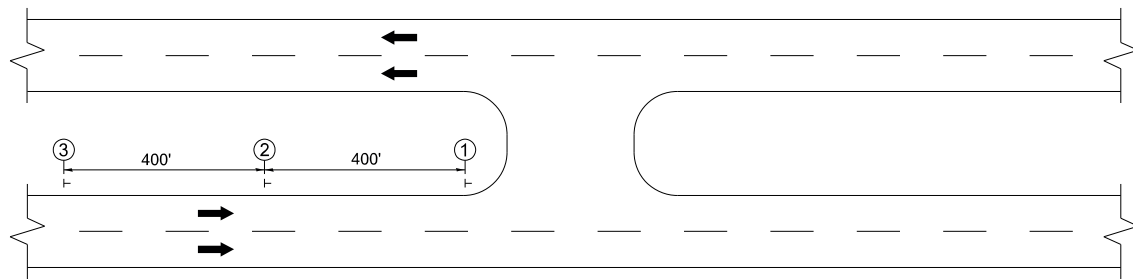
REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR BARRIER WALL REFLECTORS (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER SHALL BE DOUBLE SIDE AND BOTH SIDES SHALL BE AMBER.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ALONG THE OUTSIDE OF THE HIGHWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.



MODEL: D2 55.1-1 (Sheet) FILE NAME: P:\25E4183-1\Structure #071-0036\Design\CADD Sheets\071-0036 & 0037 - sht 037 - 046 - D2 Standards.dgn

USER NAME = gsturjeon	DESIGNED -	REVISED - 3-07-25
	DRAWN -	REVISED - 3-07-24
	CHECKED -	REVISED - 4-27-23
PLOT DATE = 1/29/2026	DATE -	REVISED - 6-21-21

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 2 DETAILS
SN 071-0036 & SN 071-0037**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	(116BR) & (117BR-1)BDR	OGLE	47	47
CONTRACT NO. 64T07				
ILLINOIS FED. AID PROJECT				