

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101V-BR & R-2BDR	LEE	38*	1
		ILLINOIS	CONTRACT NO. 64S29	

* 38 + 2 = 40 TOTAL SHEETS

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

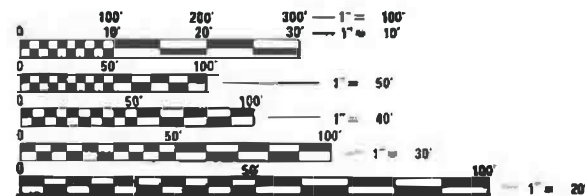
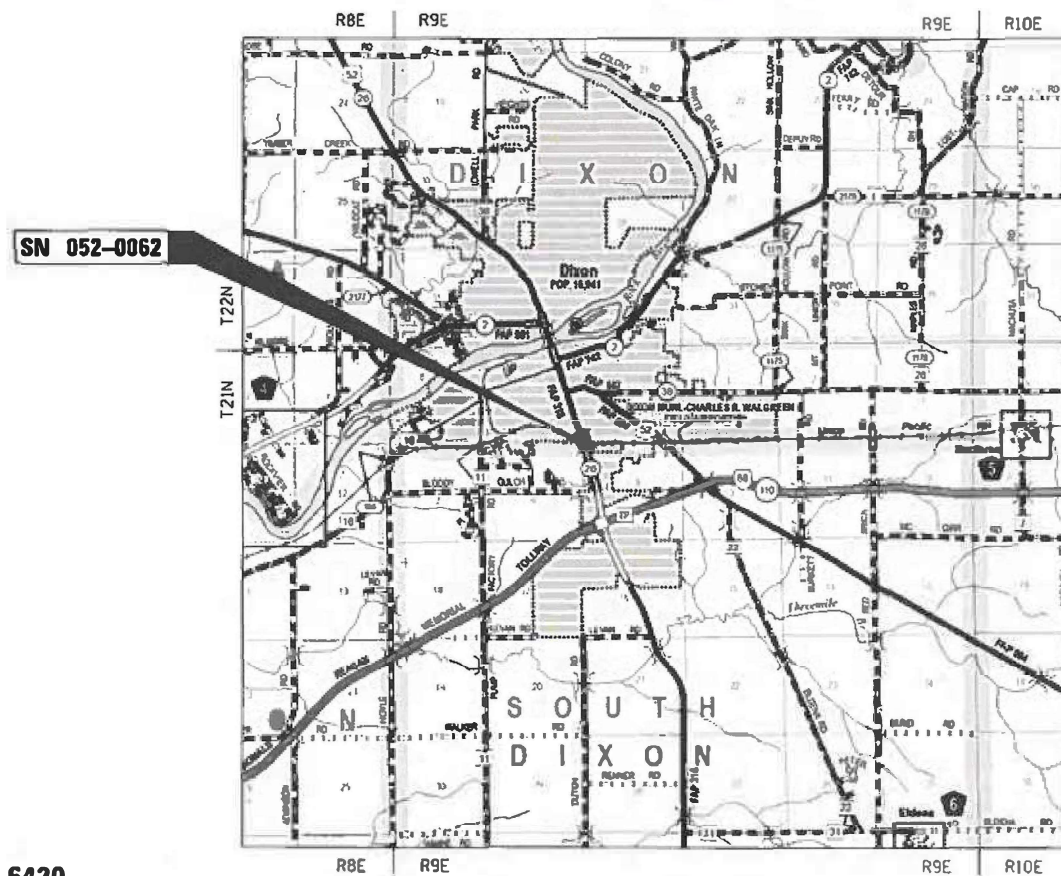
FAP ROUTE 316 (IL 26)
SECTION (101(V-BR & R-2)BDR
PROJECT NHPP-MFAM(291)
TYPE of IMPROVEMENT: BRIDGE REPAIR
SN 052-0062 OVER UP RR AT SCL OF DIXON
LEE COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

DIXON TOWNSHIP
T21N R9E, SECTIONS 4 & 5

SOUTH DIXON TOWNSHIP
T21N, R94 SECTIONS 8 & 9

C-92-024-24



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: JAMES R. PUSH, PE (630) 930-6420
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64S29

GROSS LENGTH = 360.83 FT. = 0.068 MILE
NET LENGTH = 360.83 FT. = 0.068 MILE



James R. Push, P.E.
LICENSE NO.: 062-048736
EXPIRES: NOVEMBER 30, 2025
DATE: 01/21/2024

QUANDEL CONSULTANTS
161 NORTH CLARK STREET
SUITE 2975
CHICAGO, IL 60601
312-634-6201
DESIGN FIRM - PROF/STRUCT ENGINEER
IL LIC. - 184005283-0006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan 26 20 24
Stephen M. Traill
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 22, 2024

S. E. A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
March 22, 2024
Stefan M. Traill
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

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.

THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE THIS PROJECT IS STARTED.

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.

IDOT IS NOT A MEMBER OF JULIE. THERE ARE NO IDOT UTILITIES WITHIN THE PROJECT AREA.

ALL ELEVATIONS SHOWN IN PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

WHEN RELOCATE 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.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

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 MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA CONC SURF CSE
PG:	PG 64 -22
DESIGN AIR VOIDS:	4.0% @ N DESIGN - 50
MIXTURE COMPOSITION:	IL 9.5
FRICTION AGGREGATE:	MIX "C"
QUALITY MANAGEMENT PROGRAM:	QC / QA
SUBLOT SIZE:	N / A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS / SQ FT (ON PAVEMENT)
BITUMINOUS MATERIALS (TACK COAT)	0.025 LBS / SQ FT (FOG)
HOT-MIX ASPHALT MATERIAL	0.056 TON / SQ YD PER 1"
AGGREGATE MATERIAL	1.60 TONS / CU YD

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.

UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE.

- THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT.
- EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

MICROSILICA CONCRETE SHALL INCLUDE MACRO-SIZE, TYPE III, SYNTHETIC FIBERS MEETING THE 'BRIDGE DECK MICROSILICA CONCRETE OVERLAY' SPECIAL PROVISION.

INDEX OF SHEETS

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14	ROADWAY PLAN
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39	UPRR MINIMUM COMSTRUCTION CLEARANCE ENVELOPE

STATE STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001- 13	STEEL PLATE BEAM GUARDRAIL
631031- 18	TRAFFIC BARRIER TERMINAL, TYPE 6
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701801-06	SIDEWALKr OR CROSSWALK CLOSURE
701901- 09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

FILENAME = 64529-SHT-GenNotes.dgn



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	DRAWN - JRP	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/21/2024	DATE - 05/05/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	2
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				Roadway 0006	BRIDGE 0059
				ROADWAY	SN 052-0062
20200100	EARTH EXCAVATION	CU YD	100	100	
21101635	TOPSOIL FURNISH AND PLACE, 9"	SQ YD	393	393	
25000110	SEEDING, CLASS 1A	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23	
25100630	EROSION CONTROL BLANKET	SQ YD	393	393	
40500985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	428		428
42001300	PROTECTIVE COAT	SQ YD	1,074		1,074
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	275		275
44000100	PAVEMENT REMOVAL	SQ YD	393	393	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	301		301
44000600	SIDEWALK REMOVAL	SQ FT	275		275
48203033	HOT-MIX ASPHALT SHOULDERS, 9"	SQ YD	393	393	
50102400	CONCRETE REMOVAL	CU YD	20.1		20.1

* DENOTES SPECIALTY ITEM

FILENAME = 64529-SHT-500.dgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	3
			CONTRACT NO. 64529	
ILLINOIS FED. AID PROJECT				

80% FED
20% STATE

LEE COUNTY

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				Roadway 0006	BRIDGE 0059
				ROADWAY	SN 052-0062
50157300	PROTECTIVE SHIELD	SQ YD	506		506
50300255	CONCRETE SUPERSTRUCTURE	CU YD	20.1		20.1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,155		3,155
50901739	BRIDGE FENCE RAILING, CURVED	FOOT	169		169
52000110	PREFORMED JOINT STRIP SEAL	FOOT	183		183
58700300	CONCRETE SEALER	SQ FT	20		20
59000200	EPOXY CRACK INJECTION	FOOT	379.5		379.5
60505000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	301		301
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4,647	4,647	
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	52	52	

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	4
CONTRACT NO. 64529				
ILLINOIS FED. AID PROJECT				

REV. 3/26/24REV. 3/25/24REV. 3/4/24REV. 2/20/24

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				Roadway 0006	BRIDGE 0059
				ROADWAY	SN 052-0062
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	13,786	13,786	
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	188	188	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	8,343	8,343	
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	692	692	
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	239	239	
* 78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	188	188	
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	8,343	8,343	
* 78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	692	692	
* 78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	239	239	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	106	106	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	5	5	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	106	106	
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	3,642	3,642	
X0322102	TEMPORARY SIDEWALK RAMP	EACH	4	4	
X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	8		8

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	5
CONTRACT NO. 64529			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				Roadway 0006	BRIDGE 0059
				ROADWAY	SN 052-0062
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	916		916
X5091600	STEEL RAILING REMOVAL	FOOT	172		172
X6020710	CATCH BASINS TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	EACH	2		2
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	2		2
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	1,037		1,037
Z0007430	TEMPORARY SIDEWALK	SQ FT	725	725	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,037		1,037
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	20		20
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	24		24
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	24		24
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	4		4
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	914		914
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1

* DENOTES SPECIALTY ITEM

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PLOT DATE = 1/21/2024	DATE - 05/05/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	6
CONTRACT NO. 64529			ILLINOIS FED. AID PROJECT	

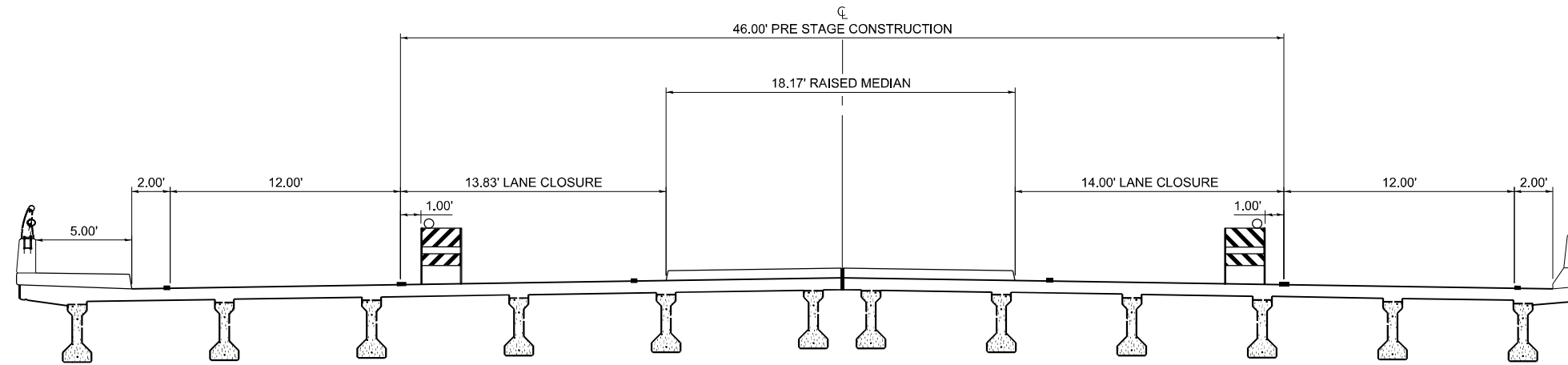
PAVEMENT MARKING REMOVAL - GRINDING												
LOCATION				78300201								
STATION	TO	STATION	SIDE	LETTERS AND SYMBOLS		LINE 4"		LINE 8"		LINE 12"		
				ARROWS	"ONLY"	SOLID	SKIP DASH	SOLID	SOLID	DOTTED	SOLID	
				LANE LINE	LANE LINE	MEDIAN EDGE	TURN LANE	TURN LANE	MEDIAN DIAGNAL LINE	MEDIAN CHEVRON	SQ FT	
NORTH SECTION												
28+50.0	TO	34+79.0	LT & RT				104.8					
28+50.0	TO	30+30.0	LT & RT			120.0						
30+30.0	TO	34+79.0	LT & RT					598.7		191.0		
32+43.5	TO	33+60.0	RT						25.9			
33+60.0	TO	34+74.5	LT & RT	31.2					159.3		48.0	
35+53.0	TO	39+00.0	LT & RT			231.3	57.8	231.3				
35+53.0	TO	37+05.0	RT	31.2	20.8				101.3			
SOUTH SECTION												
39+00.0	TO	43+96.0	LT & RT			330.7	82.7	330.7				
42+78.0	TO	43+96.0	RT	31.2	20.8							
44+87.0	TO	49+49.0	LT & RT			308.0	77.0	308.0				
44+87.0	TO	46+03.0	LT	31.2	20.8				77.3			
46+03.0	TO	46+87.0	LT							18.7		
TOTAL				156.0	83.2	990.0	322.3	1468.7	338.0	44.6	191.0	48.0
USE				3642								

TEMPORARY PAVEMENT MARKING												
LOCATION				70307100			70307120					
STATION	TO	STATION	SIDE	LETTERS AND SYMBOLS - TYPE IV TAPE		LINE 4" - TYPE IV TAPE						
				LEFT ARROWS	WHITE	SOLID	DOTTED	INTERSECTION				
				LANE LINE	WHITE	YELLOW	WHITE	YELLOW	WHITE	FOOT		
				SQ FT								
STAGE I												
30+00.0	TO	34+46.0	RT			446.0						
30+00.0	TO	34+83.0	LT & RT			483.0						
30+00.0	TO	34+84.0	LT & RT				484.0					
30+00.0	TO	34+86.0	LT				486.0					
34+83.0	TO	35+50.0	RT					134.0	67.0			
35+50.0	TO	40+49.0	RT			998.0	499.0					
40+49.0	TO	43+99.5	LT & RT				350.5					
40+49.0	TO	43+70.0	RT			321.0						
40+49.0	TO	43+99.5	RT			350.5						
43+99.5	TO	44+95.0	LT						95.5			
44+00.0	TO	44+96.0	LT & RT					96.0				
44+96.0	TO	51+92.0	LT			696.0						
44+96.0	TO	49+45.0	LT				464.5					
48+52.5	TO	49+45.0	LT						92.5			
49+45.0	TO	51+92.0	LT				247.0					
STAGE II												
26+00.0	TO	34+85.0	LT & RT				885.0					
26+00.0	TO	34+85.0	RT			1366.5						
34+85.0	TO	35+54.0	LT					69.0	69.0			
35+54.0	TO	43+98.0	LT & RT			1688.0	1688.0					
43+98.0	TO	44+87.0	LT & RT					89.0	89.0			
44+87.0	TO	48+76.0	RT				389.0					
44+87.0	TO	46+30.0	RT			143.0						
44+87.0	TO	47+40.0	LT			253.0	253.0					
45+27.0	TO	45+82.0	LT	46.8								
47+40.0	TO	48+32.0	LT						92.0			
48+11.0	TO	49+36.0	LT						125.0			
48+32.0	TO	51+92.0	LT			360.0						
49+36.0	TO	51+92.0	LT				256.0					
TOTAL				46.8		7105.0	5755	388		537.5		
USE				46.8							13786	

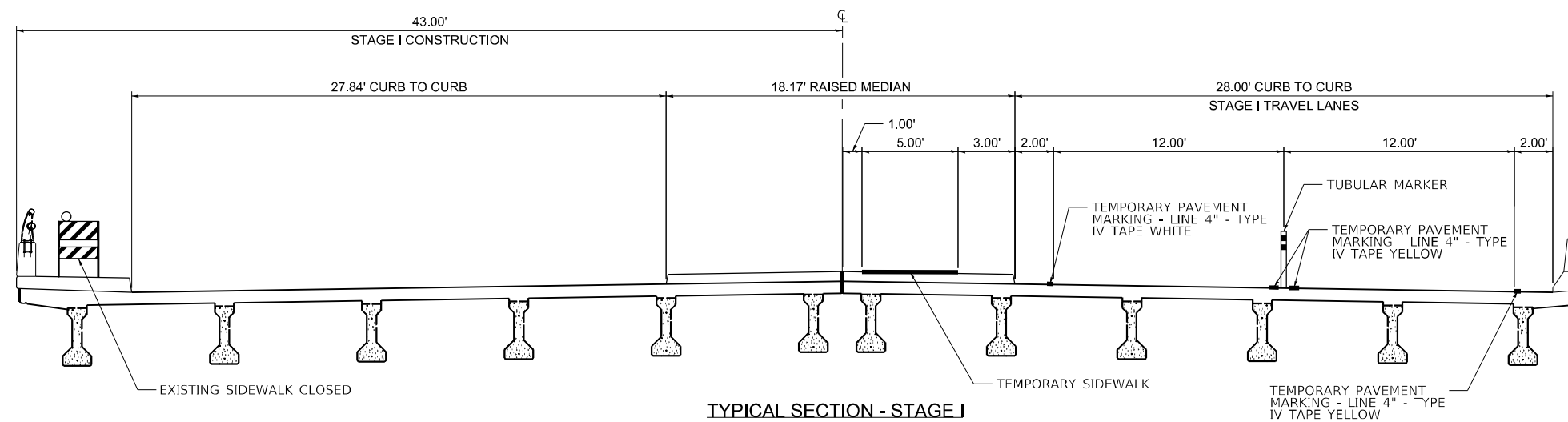
MODIFIED URETHANE PAVEMENT MARKING												
LOCATION				78009000		78009004			78009008		78009012	
STATION	TO	STATION	SIDE	LETTERS AND SYMBOLS		LINE 4"		LINE 8"		LINE 12"		
				ARROWS	WHITE	SOLID	SKIP DASH	SOLID	DOTTED	SOLID	SOLID	SOLID
				LANE LINE	WHITE	LANE LINE	MEDIAN EDGE	LEFT TURN LANE	LEFT TURN LANE	MEDIAN DIAGNAL LINE	MEDIAN CHEVRON	
				SQ FT								
NORTH SECTION												
28+50.0	TO	34+79.0	LT & RT				314.5					
28+50.0	TO	30+30.0	LT & RT			360.0						
30+30.0	TO	34+79.0	LT & RT					1796.0		191.0		
32+43.5	TO	33+60.0	RT						38.8			
33+60.0	TO	34+74.5	LT & RT	46.8						239.0	48.0	
35+53.0	TO	39+00.0	LT & RT			694.0	173.5	694.0				
35+53.0	TO	37+05.0	LT	46.8						152.0		
SOUTH SECTION												
39+00.0	TO	43+96.0	LT & RT			992.0	248.0	992.0				
42+78.0	TO	43+96.0	RT	46.8						118.0		
44+87.0	TO	49+49.0	LT & RT			924.0	231.0	924.0				
44+87.0	TO	46+03.0	LT	46.8						116.0		
46+03.0	TO	46+87.0	LT						28.0			
TOTAL				187.2		2970.0	967.0	4406.0	66.8	625.0	191.0	48.0
USE				188		8343			692		239	

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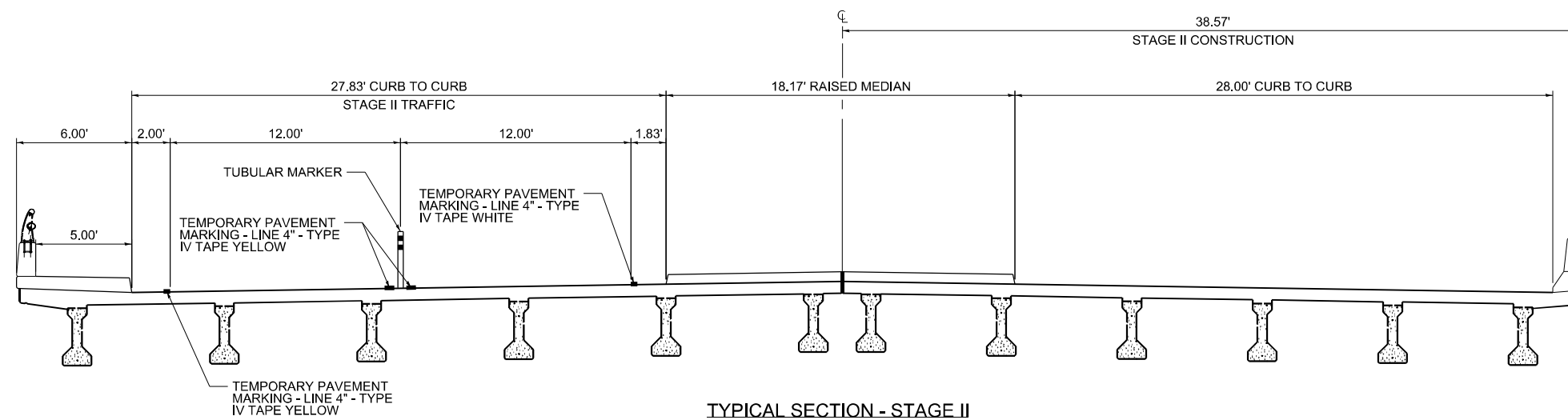
	USER NAME = jpush	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION TRAFFIC CONTROL SN 052-0062 SCHEDULES	F.A.P. RTE. 316	SECTION 101(V-BR & R-2)BDR	COUNTY LEE	TOTAL SHEETS 38	SHEET NO. 7
	PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -			SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 64S29	
	PLOT DATE = 1/21/2024	DATE -	REVISED -							



TYPICAL SECTION - PRE STAGE



TYPICAL SECTION - STAGE I



TYPICAL SECTION - STAGE II

MODEL: S:\MODEL\NAMES
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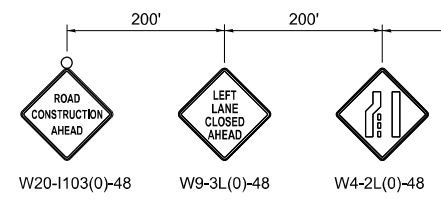
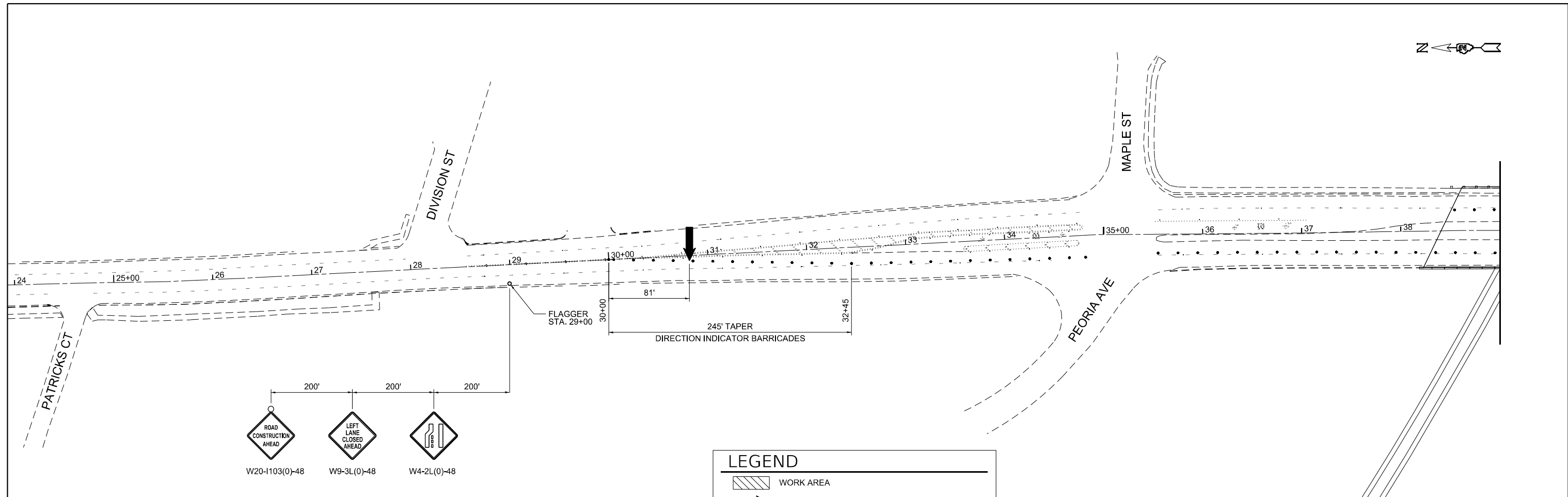
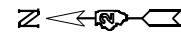
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION TRAFFIC CONTROL SN 052-0062
MOT TYPICAL SECTIONS

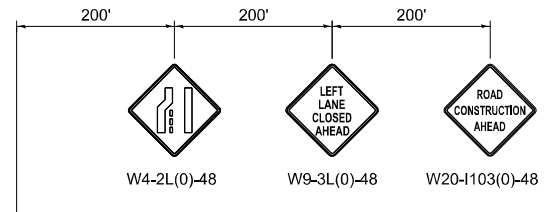
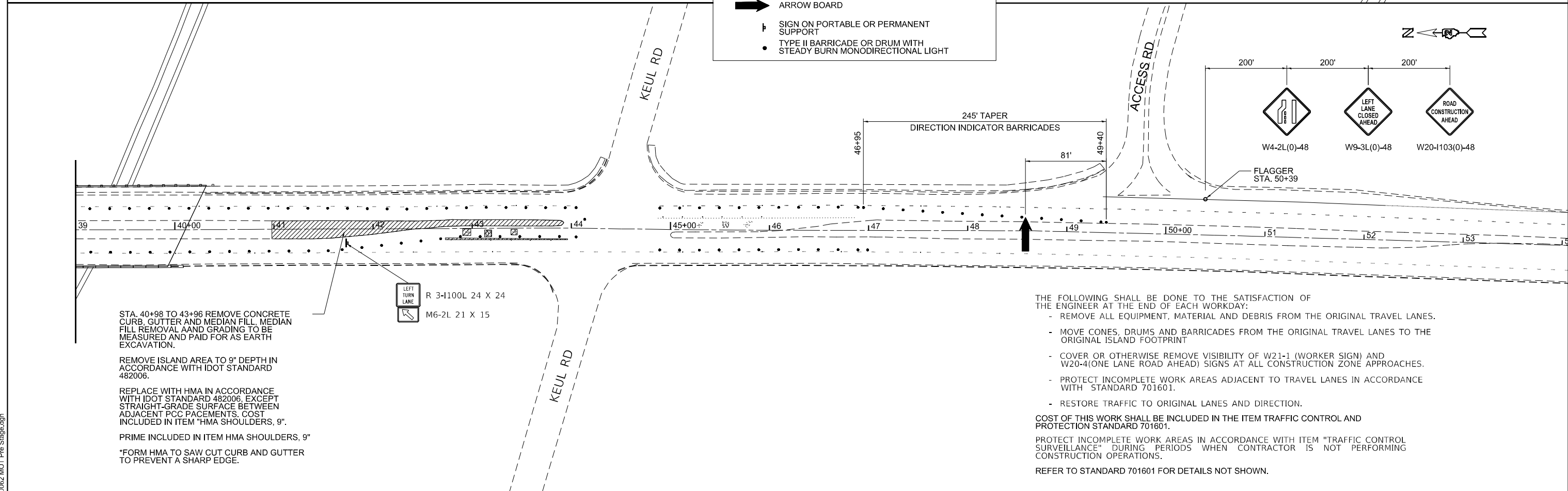
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	8
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK AREA
- ARROW BOARD
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT



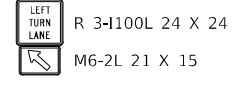
STA. 40+98 TO 43+96 REMOVE CONCRETE CURB, GUTTER AND MEDIAN FILL. MEDIAN FILL REMOVAL AND GRADING TO BE MEASURED AND PAID FOR AS EARTH EXCAVATION.

REMOVE ISLAND AREA TO 9" DEPTH IN ACCORDANCE WITH IDOT STANDARD 482006.

REPLACE WITH HMA IN ACCORDANCE WITH IDOT STANDARD 482006, EXCEPT STRAIGHT-GRADE SURFACE BETWEEN ADJACENT PCC PACEMENTS. COST INCLUDED IN ITEM "HMA SHOULDERS, 9".

PRIME INCLUDED IN ITEM HMA SHOULDERS, 9"

*FORM HMA TO SAW CUT CURB AND GUTTER TO PREVENT A SHARP EDGE.



- THE FOLLOWING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER AT THE END OF EACH WORKDAY:
- REMOVE ALL EQUIPMENT, MATERIAL AND DEBRIS FROM THE ORIGINAL TRAVEL LANES.
 - MOVE CONES, DRUMS AND BARRICADES FROM THE ORIGINAL TRAVEL LANES TO THE ORIGINAL ISLAND FOOTPRINT
 - COVER OR OTHERWISE REMOVE VISIBILITY OF W21-1 (WORKER SIGN) AND W20-4(ONE LANE ROAD AHEAD) SIGNS AT ALL CONSTRUCTION ZONE APPROACHES.
 - PROTECT INCOMPLETE WORK AREAS ADJACENT TO TRAVEL LANES IN ACCORDANCE WITH STANDARD 701601.
 - RESTORE TRAFFIC TO ORIGINAL LANES AND DIRECTION.

COST OF THIS WORK SHALL BE INCLUDED IN THE ITEM TRAFFIC CONTROL AND PROTECTION STANDARD 701601.

PROTECT INCOMPLETE WORK AREAS IN ACCORDANCE WITH ITEM "TRAFFIC CONTROL SURVEILLANCE" DURING PERIODS WHEN CONTRACTOR IS NOT PERFORMING CONSTRUCTION OPERATIONS.

REFER TO STANDARD 701601 FOR DETAILS NOT SHOWN.

MODEL: S\MODEL\NAMES FILE NAME: 0520062.MOT Pre Stage.dgn



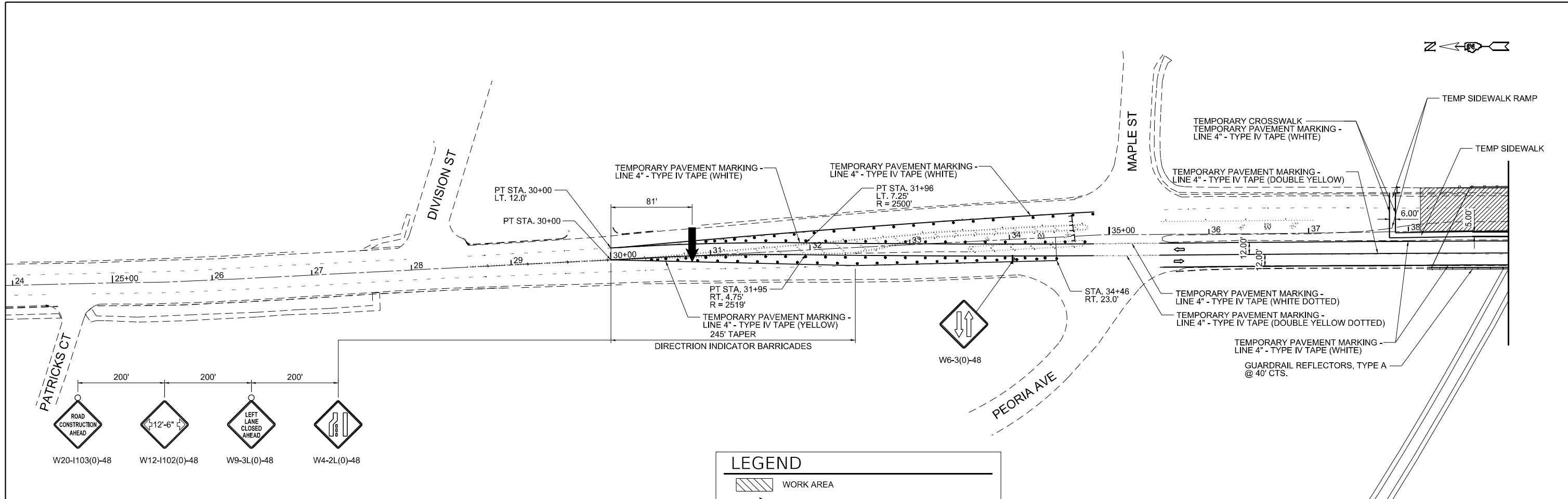
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PLOT DATE = 1/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION TRAFFIC CONTROL SN 052-0062
PRE-STAGE**

SCALE: 1" = 50' SHEET 2 OF 5 SHEETS STA. TO STA.

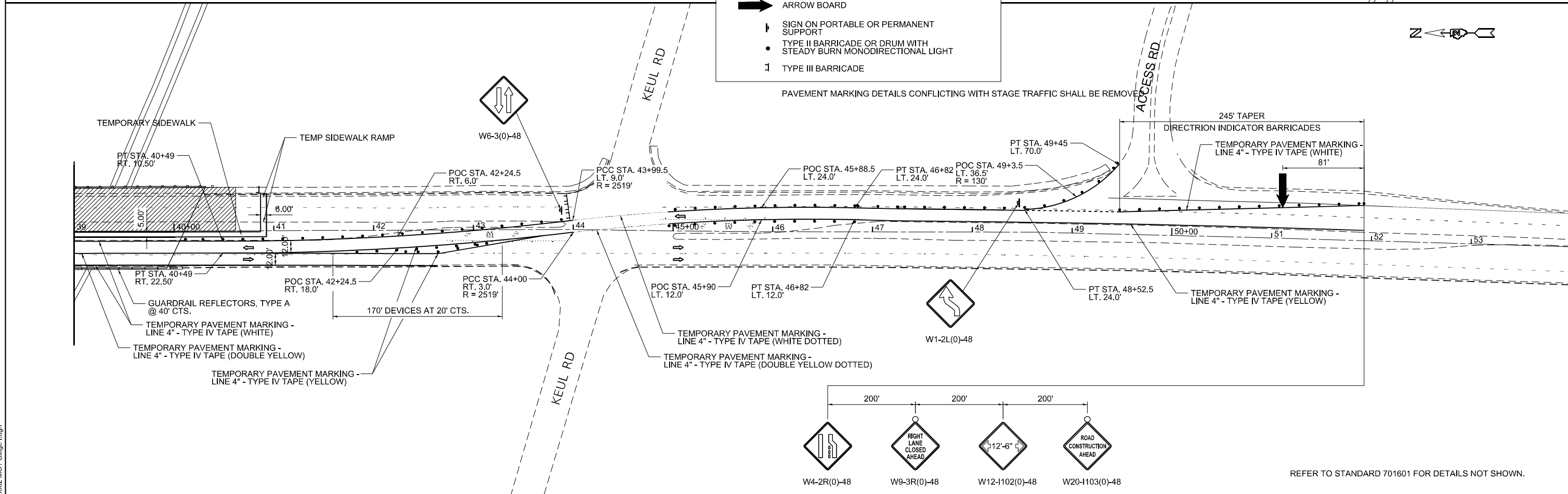
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	9
CONTRACT NO. 64S29				
		ILLINOIS	FED. AID PROJECT	



LEGEND

- WORK AREA
- ARROW BOARD
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE

PAVEMENT MARKING DETAILS CONFLICTING WITH STAGE TRAFFIC SHALL BE REMOVED



REFER TO STANDARD 701601 FOR DETAILS NOT SHOWN.

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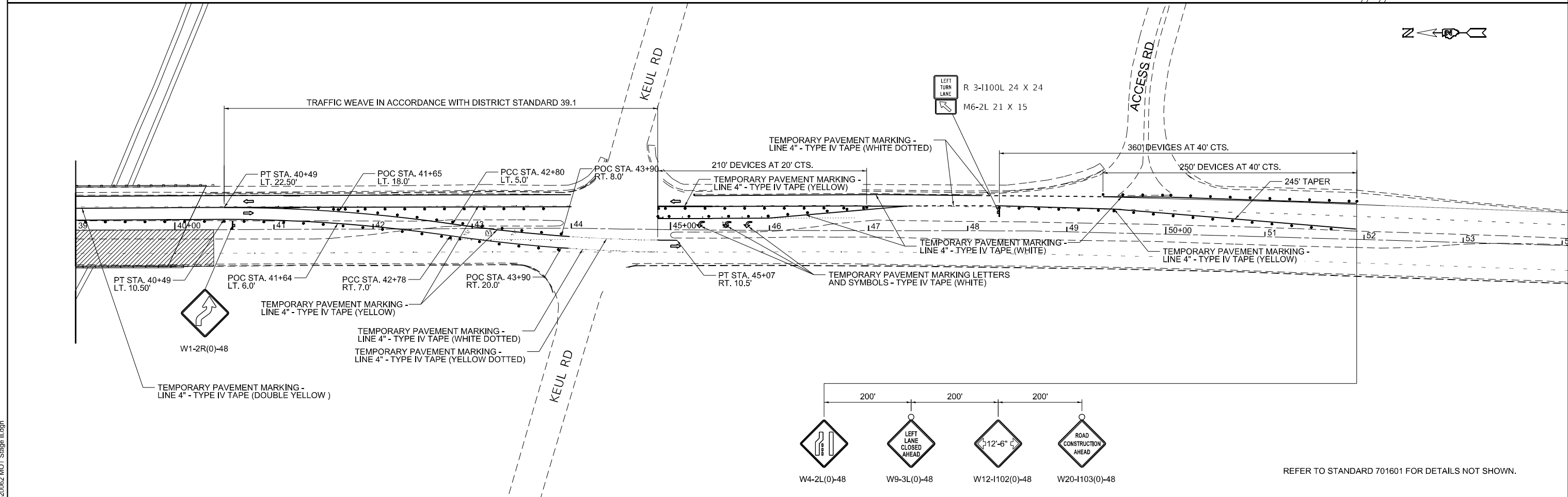
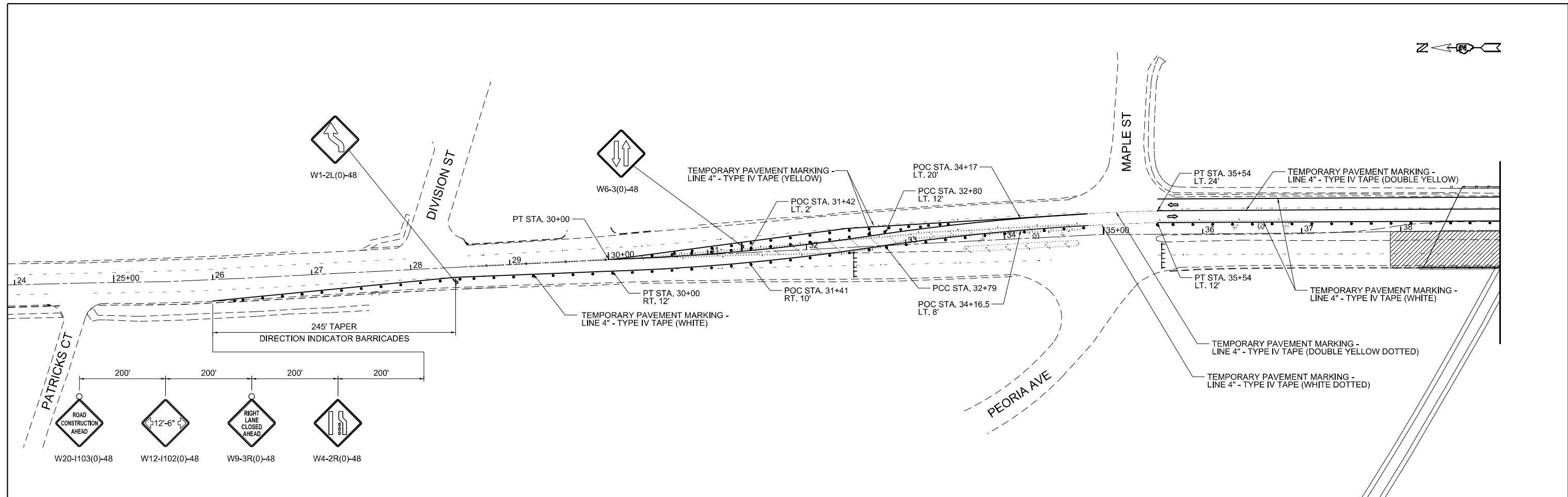


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PLOT DATE = 1/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 50'		SHEET 3 OF 5 SHEETS		STA.	TO STA.
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F.A.P. RTE. 316	SECTION 101(V-BR & R-2)BDR	COUNTY LEE	TOTAL SHEETS 38	SHEET NO. 10
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				



REFER TO STANDARD 701601 FOR DETAILS NOT SHOWN.

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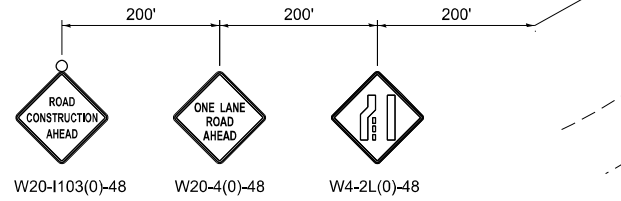
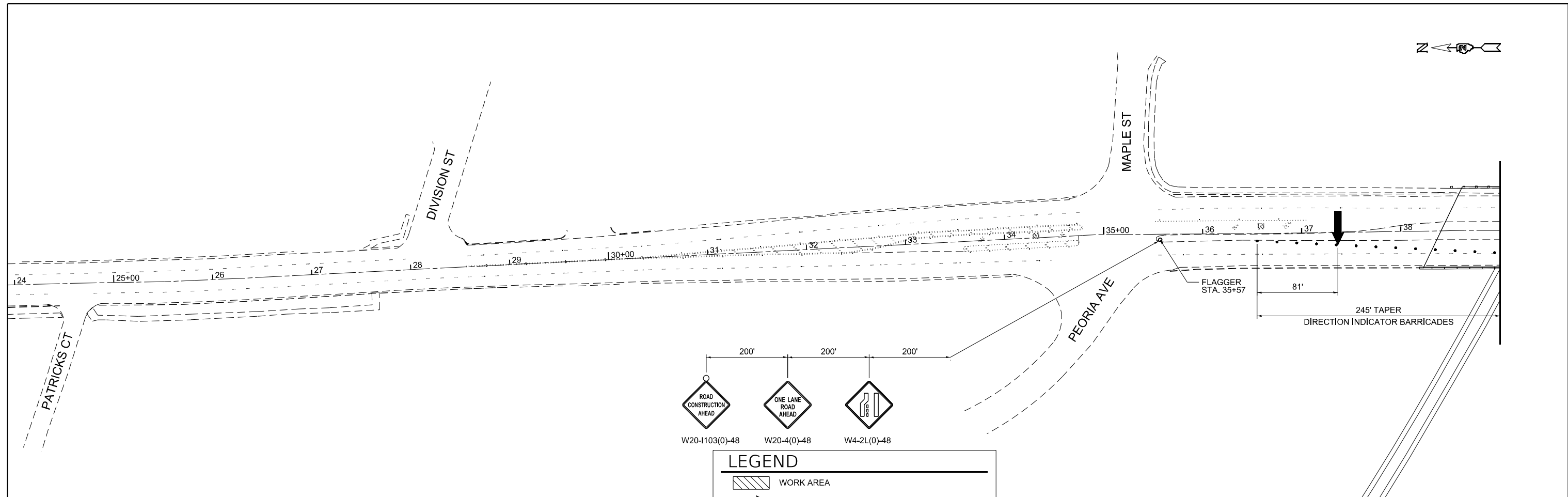
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION TRAFFIC CONTROL SN 052-0062
STAGE II

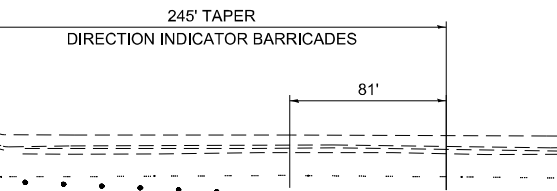
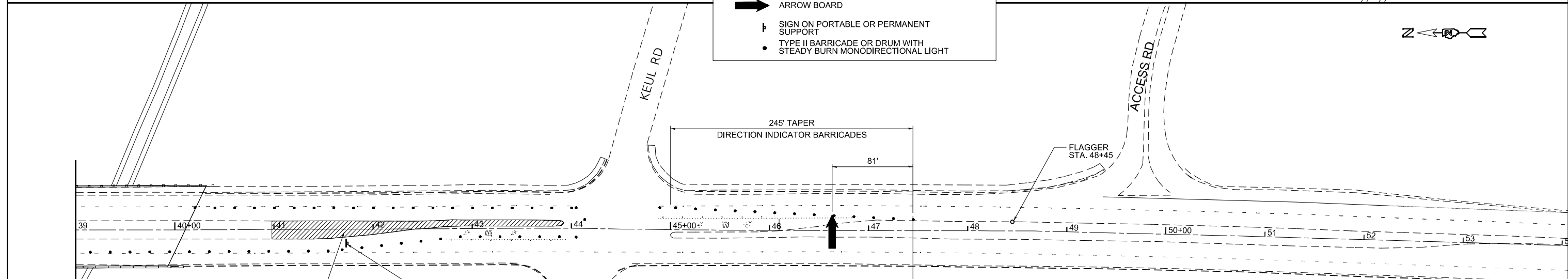
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F.A.P. RTE. 316	SECTION 101(V-BR & R-2)BDR	COUNTY LEE	TOTAL SHEETS 38	SHEET NO. 11
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK AREA
- ARROW BOARD
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

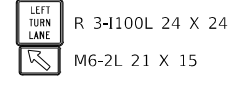


STA. 40+98 TO 43+96 REMOVE EXISTING 9" STAGE I AND II HMA IN ORIGINAL ISLAND AREA 18'-2" x 5'-0" WIDE x 9" DEEP ADJACENT TO EXISTING PCC PAVEMENT. MEASURED AND PAID FOR AS "PAVEMENT REMOVAL".

PLACE CONCRETE CURB AND GUTTER IN ORIGINAL ISLAND AREA ADJACENT TO EXISTING PCC PAVEMENT TO ORIGINAL DIMENSIONS AND IN ACCORDANCE WITH IDOT STANDARD 606001. MEASURED AND PAID FOR AS "COMB CONC CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)".

PLACE TOPSOIL BETWEEN NEW CURB AND GUTTER TO FILL MEDIAN WITH TOPSOIL. PLACE TOP SOIL TO A CROWN PROVIDING DRAINAGE. ADDITIONAL TOPSOIL TO PROVIDE DRAINAGE WILL BE CONSIDERED INCLUDED WITH (FURNISH AND PLACE TOPSOIL 9").

PLACE SEEDING, CLASS 1A IN MEDIAN WITH FERTILIZER NUTRIENTS PER SECTION 250 OF STANDARD SPECIFICATIONS. PLACE EROSION CONTROL BLANKET ON ALL SEEDED AREAS.



- THE FOLLOWING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER AT THE END OF EACH WORKDAY:
- REMOVE ALL EQUIPMENT, MATERIAL AND DEBRIS FROM THE ORIGINAL TRAVEL LANES.
 - MOVE CONES, DRUMS AND BARRICADES FROM THE ORIGINAL TRAVEL LANES TO THE ORIGINAL ISLAND FOOTPRINT
 - COVER OR OTHERWISE REMOVE VISIBILITY OF W21-1 (WORKER SIGN) AND W20-4(ONE LANE ROAD AHEAD) SIGNS AT ALL CONSTRUCTION ZONE APPROACHES.
 - PROTECT INCOMPLETE WORK AREAS ADJACENT TO TRAVEL LANES IN ACCORDANCE WITH STANDARD 701601.
 - RESTORE TRAFFIC TO ORIGINAL LANES AND DIRECTION.

COST OF THIS WORK SHALL BE INCLUDED IN THE ITEM TRAFFIC CONTROL AND PROTECTION STANDARD 701601.

PROTECT INCOMPLETE WORK AREAS IN ACCORDANCE WITH ITEM "TRAFFIC CONTROL SURVEILLANCE" DURING PERIODS WHEN CONTRACTOR IS NOT PERFORMING CONSTRUCTION OPERATIONS.

REFER TO STANDARD 701601 FOR DETAILS NOT SHOWN.

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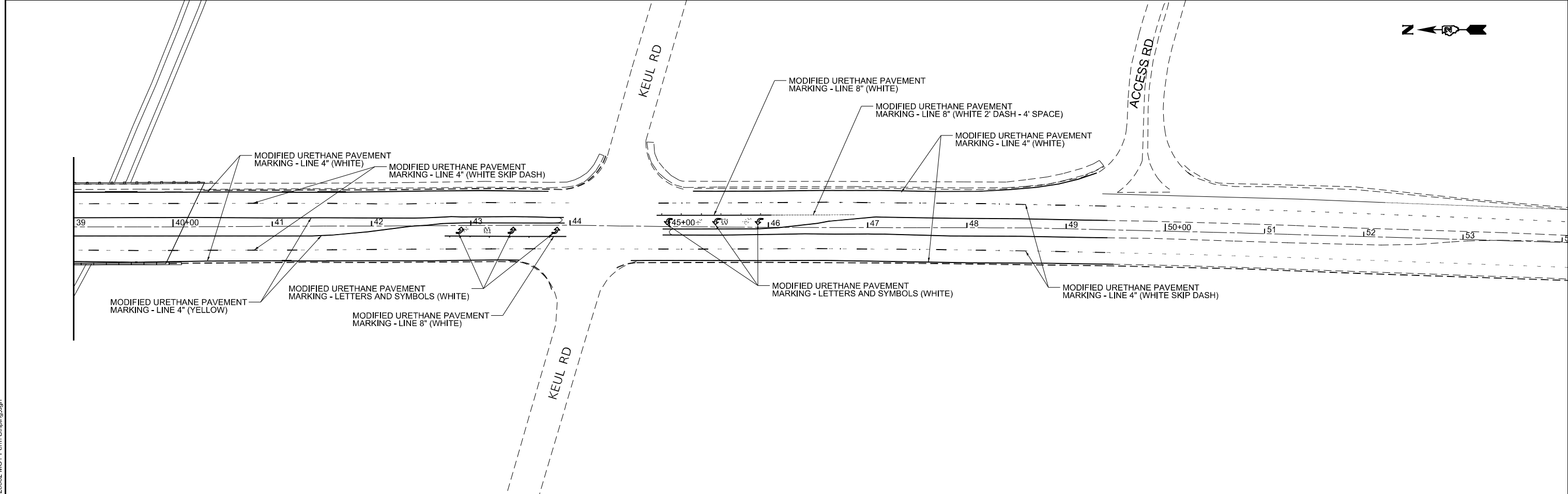
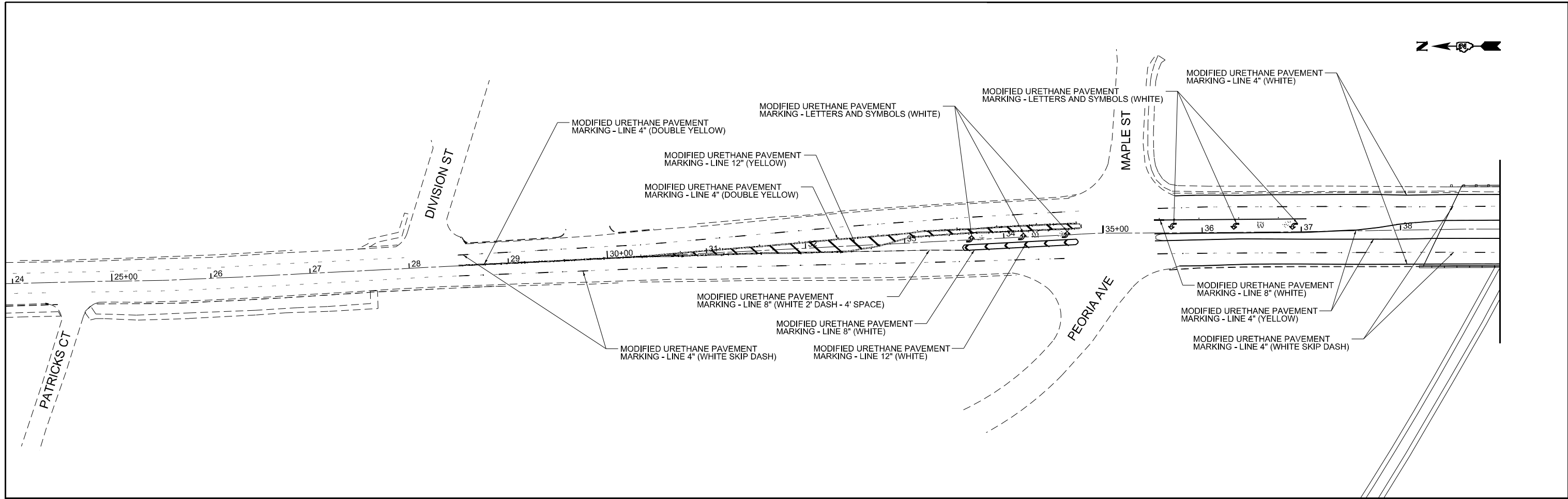
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION TRAFFIC CONTROL SN 052-0062
POST STAGE**

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

F.A.P. RTE. 316	SECTION 101(V-BR & R-2)BDR	COUNTY LEE	TOTAL SHEETS 38	SHEET NO. 12
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				



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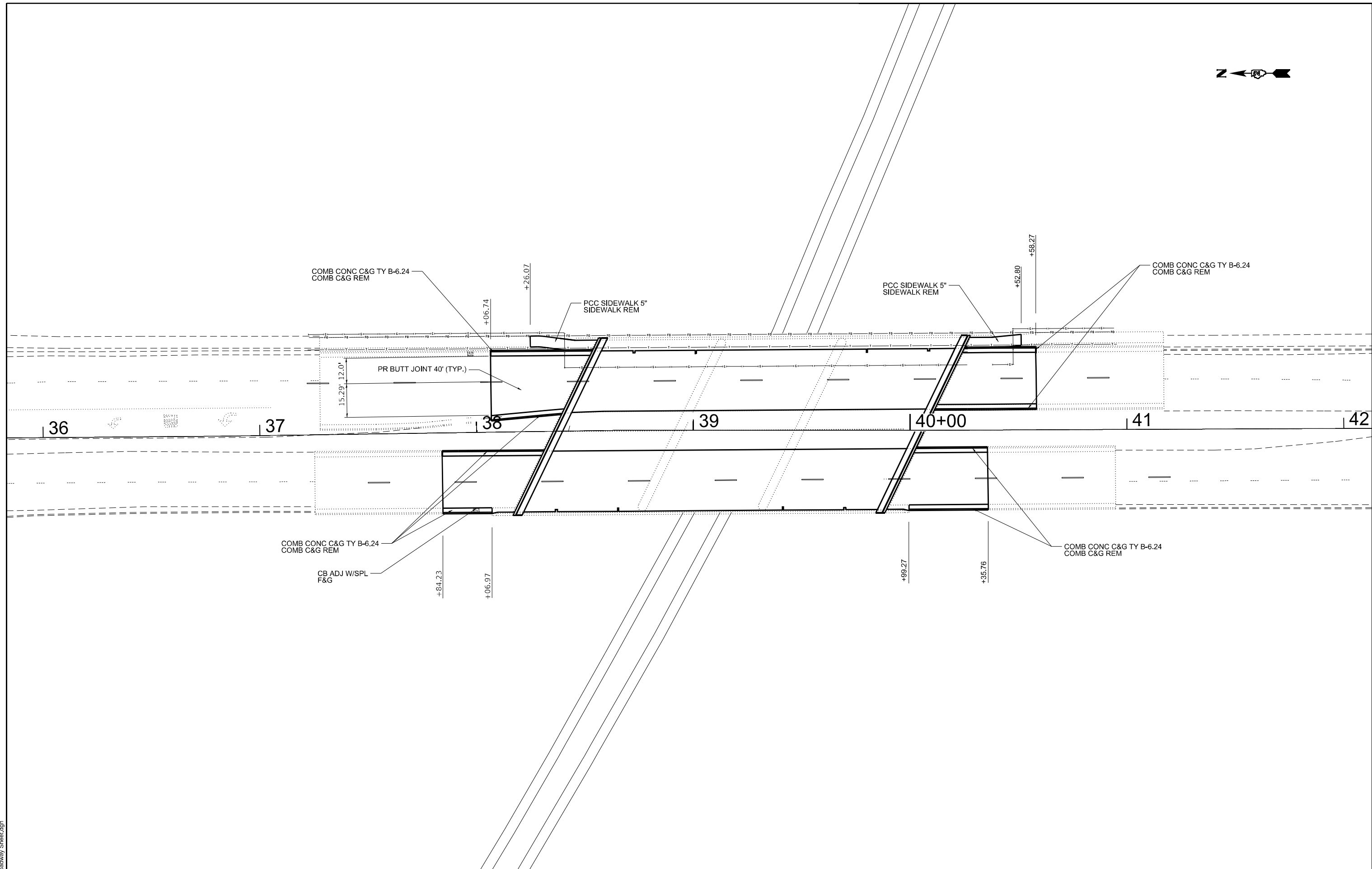
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		DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	13
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 1/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 OVER BNSF RR
ROADWAY PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	14
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				

Existing Structure 052-0062, built in 1988, is a three-span precast, prestressed concrete beam superstructure supporting a reinforced concrete deck. The back-to-back-of abutment bridge length is 172'-7 $\frac{3}{4}$ " and the out-to-out bridge deck width is 81'-9". The proposed work consists of deck scarification, joint reconstruction, deck and approach slab repair and placement of a new latex concrete overlay, along with curved bridge fence installation on the east side and various substructure repairs. A single lane of traffic in each direction shall be maintained during the work using median cross-overs.

SCOPE OF WORK

- (A) - Perform required pre-stage work. See Roadway Plans.
- (B) - Reconstruct expansion joints at North and South Abutments.
- (C) - Scarify $\frac{3}{4}$ " from bridge deck slab, as shown in the plans.
- (D) - Perform full depth deck slab repair where required after scarification and corresponding deck survey.
- (E) - Perform partial depth approach slab repair, where shown.
- (F) - Adjust bridge deck scuppers. Clean scuppers and deck drains.
- (G) - Place 2 $\frac{1}{2}$ " Latex Concrete Overlay over bridge deck slab, as shown in the plans.
- (H) - Perform $\frac{1}{4}$ " Diamond Grinding (Bridge Section) and Bridge Deck Grooving (Longitudinal) to bridge deck.
- (I) - Perform concrete patching and crack sealing to piers and abuts.
- (J) - Apply concrete sealant to repaired areas of substructure concrete.
- (K) - Remove existing bridge railing on sidewalk (east) side of bridge, and place curved bridge fence railing.
- (L) - Replace approach sidewalk and approach curb & gutter sections as shown in the plans. Adjust catch basin and install new frame & grate along west side of north approach in SB lanes.
- (M) - Apply Protective Coat to the new deck overlay, reconstructed joints, and new sidewalk & curb sections.
- (N) - Construct butt joint and resurface bridge approaches.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, (Proposed)

LOADING HS 20-44

Existing and proposed loading

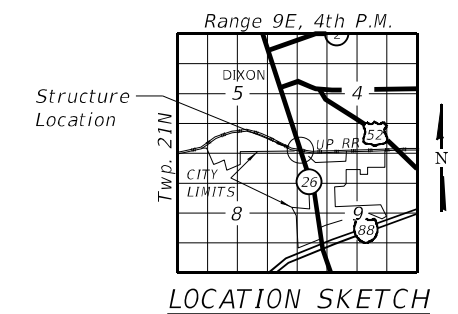
DESIGN STRESSES

FIELD UNITS (NEW)

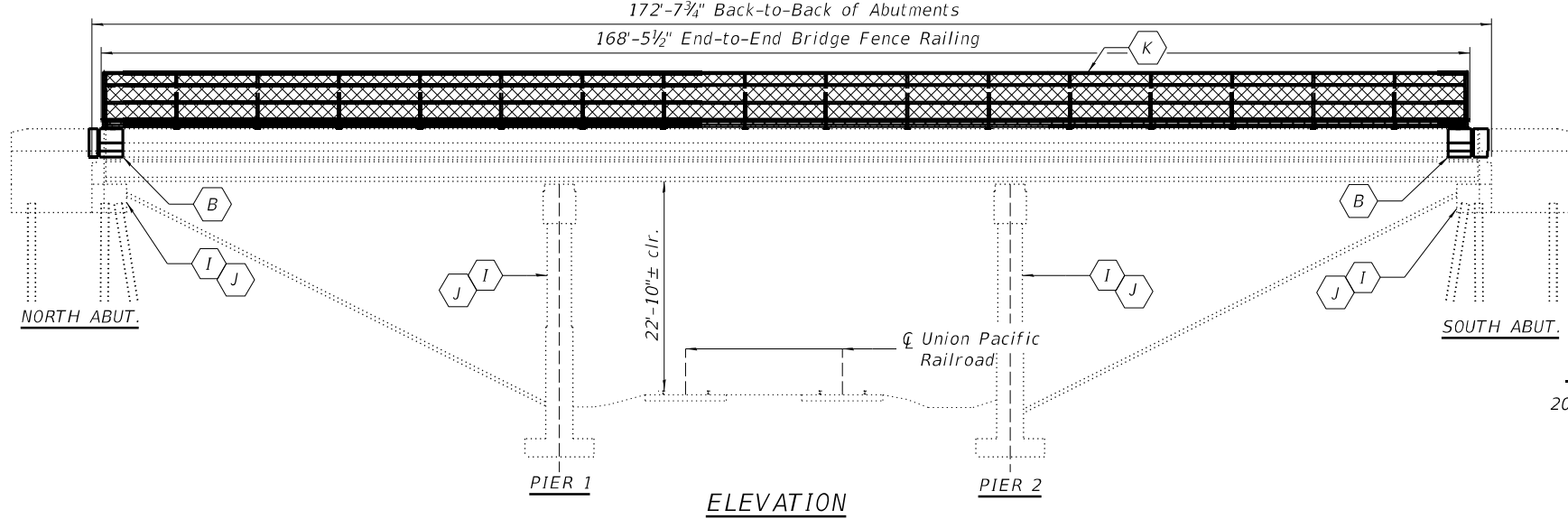
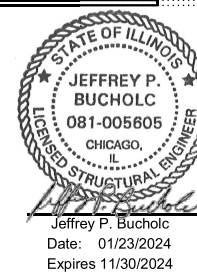
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 $f_y = 60,000$ psi (Reinforcement)

FIELD UNITS (EXISTING)

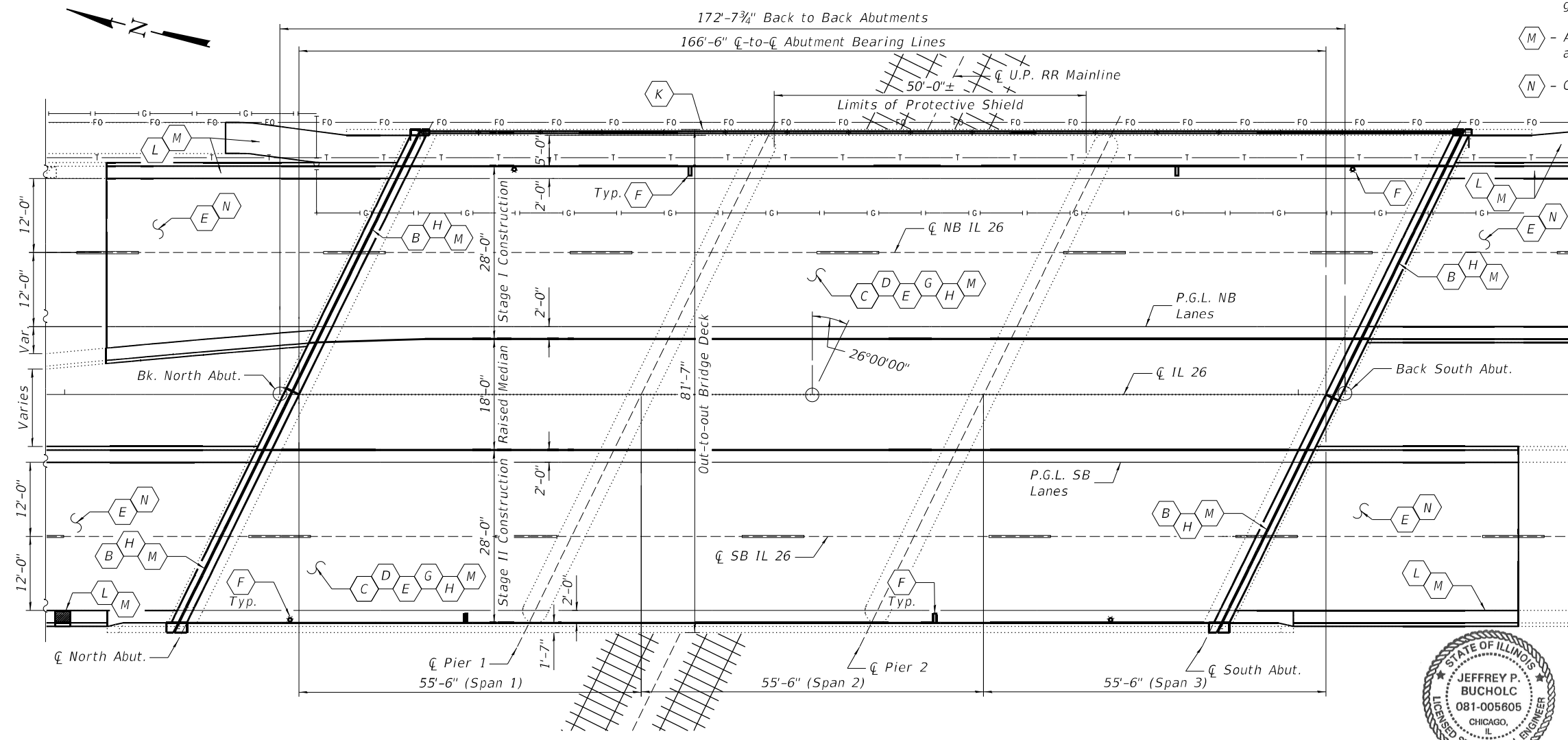
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 $f_y = 60,000$ psi (Reinforcement)



GENERAL PLAN & ELEVATION
F.A.P. 316 (IL 26) OVER UP RR
SEC (101(V-BR & R-2)BDR
LEE COUNTY
STATION 39+26.00
STRUCTURE NO. 052-0062



ELEVATION



PLAN

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	CHECKED - JRT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
IL 26 OVER UP RR - S.N. 052-0062

SHEET 1 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	15
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. General Data
- 3. Stage Construction Details
- 4. Wearing Surface Details
- 5. Reflected Deck and Approach Slab Patching Details
- 6. Expansion Joint Concrete Removal Details
- 7. Expansion Joint Concrete Replacement Details I
- 8. Expansion Joint Concrete Replacement Details II
- 9A-9B. Preformed Joint Strip Seal
- 10. Bridge Fence Railing Detail I
- 11. Bridge Fence Railing Detail II
- 12. Pier 1 Repairs
- 13. Pier 2 Repairs
- 14. Abutment Repairs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Portland Cement Concrete Surface Removal - Butt Joint	SQ YD	428	0	428
Protective Coat	SQ YD	1,074	0	1,074
Concrete Removal	CU YD	20.1	0	20.1
Protective Shield	SQ YD	506	0	506
Concrete Superstructure	CU YD	20.1	0	20.1
Reinforcement Bars, Epoxy Coated	POUND	3,155	0	3,155
Bridge Fence Railing, Curved	FOOT	169	0	169
Preformed Joint Strip Seal	FOOT	183	0	183
Concrete Sealer	SQ FT	0	20	20
Epoxy Crack Injection	FOOT	0	379.5	379.5
Cleaning Bridge Scuppers and Downspouts	EACH	8	0	8
Bridge Deck Grooving (Longitudinal)	SQ YD	916	0	916
Steel Railing Removal	FOOT	172	0	172
Approach Slab Repair (Partial Depth)	SQ YD	2	0	2
Bridge Deck Latex Concrete Overlay, 2 1/2 Inches	SQ YD	1,037	0	1,037
Bridge Deck Scarification 3/4"	SQ YD	1,037	0	1,037
Structural Repair Of Concrete (Depth Equal To Or Less than 5 Inches)	SQ FT	0	20	20
Deck Slab Repair (Full Depth, Type I)	SQ YD	24	0	24
Deck Slab Repair (Full Depth, Type II)	SQ YD	24	0	24
Drainage Scuppers To Be Adjusted	EACH	4	0	4
Diamond Grinding (Bridge Section)	SQ YD	914	0	914
Railroad Protective Liability Insurance	L SUM	1	0	1

* Protective Coat shall be applied to all new concrete superstructure and all new concrete overlays as specified in Article 503.19 of the Standard Specifications.
 ** Up to 1/4 inch to be ground off the bridge deck.

GENERAL NOTES

- 1. Plan dimensions and details relative to the existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change of scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- 2. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced with approved bar splicers or anchorage system. Cost included with Concrete Removal.
- 3. Joint openings shall be adjusted according to article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
- 4. Reinforcement bars designated (E) shall be epoxy coated.
- 5. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with the concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
- 6. Traffic will be maintained using stage construction.
- 7. The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beams.

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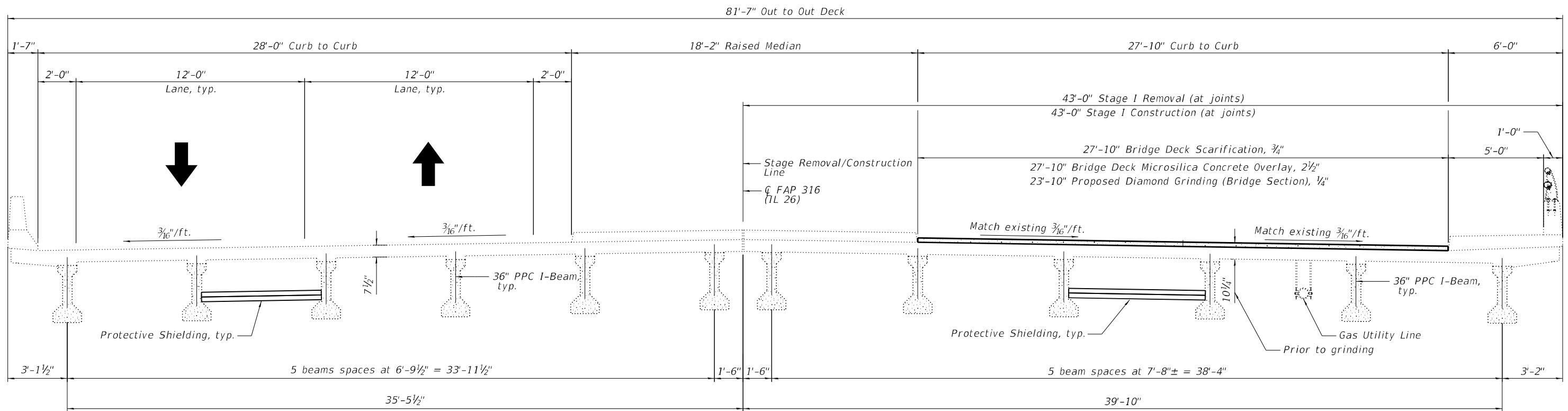


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

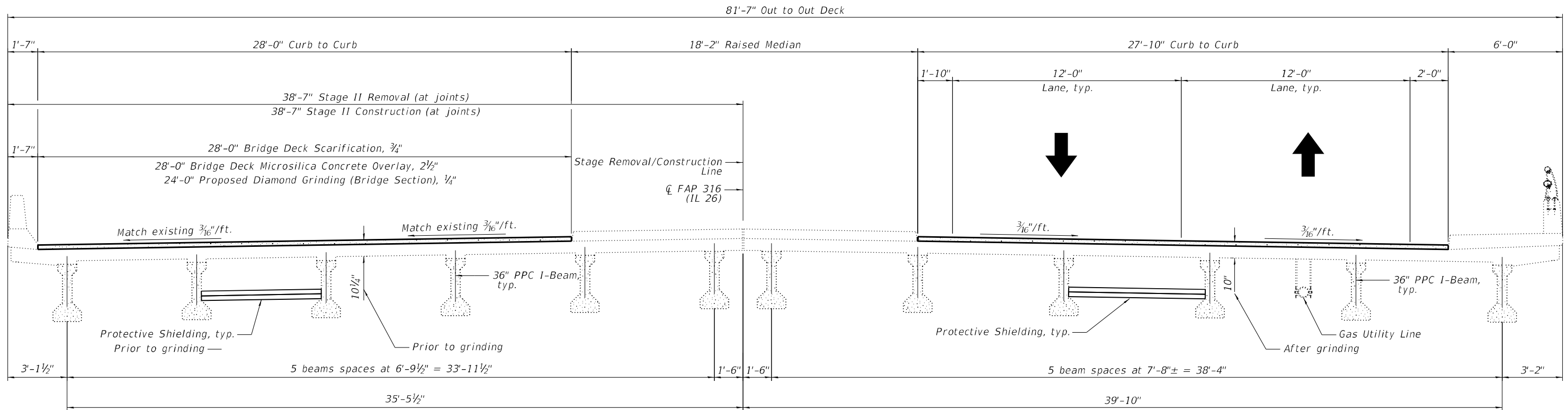
GENERAL DATA	
IL 26 OVER UP RR - S.N. 052-0062	
SHEET 2 OF 14 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	16
CONTRACT NO. 64S29				
ILLINOIS		FED. AID PROJECT		



STAGE I REMOVAL AND CONSTRUCTION

(Half superstructure cross-sections, looking north)



STAGE II REMOVAL AND CONSTRUCTION

(Half superstructure cross-sections, looking north)

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

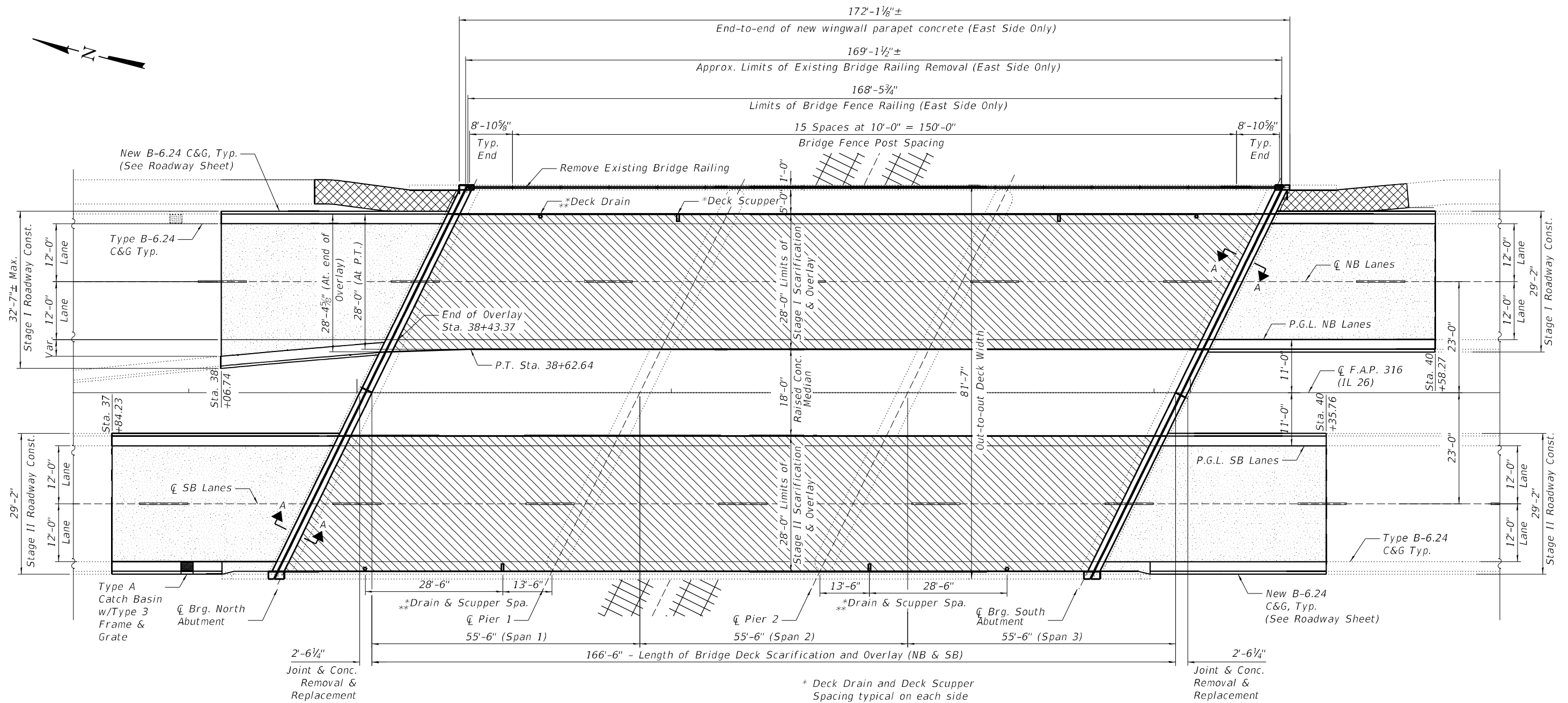
**STAGE CONSTRUCTION DETAILS
IL 26 OVER UP RR - SN 052-0062**

SHEET 3 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	17
CONTRACT NO. 64S29				

ILLINOIS FED. AID PROJECT

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PLAN

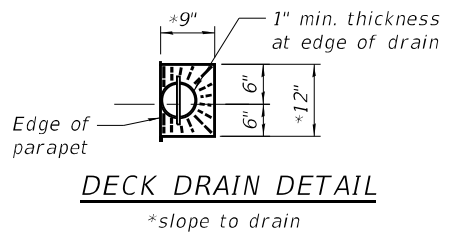
* Deck Drain and Deck Scupper Spacing typical on each side of bridge deck
 ** For Deck Drain Finish, See Detail. For Deck Scupper Adjustment, See Sheet 8 of 14

LEGEND:

- 3/4" Bridge Deck Slab Scarification
2 1/2" Latex Concrete Overlay & 1/4" Diamond Grinding
- 5-in. Concrete Sidewalk Removal & Replacement. See Roadway Sheet for specific limits.
- PCC Surface Removal (Butt Joint) See Roadway Sheet for specific limits.

BILL OF MATERIAL

ITEM	UNIT	NB	SB	TOTAL
Bride Deck Scarification 3/4"	Sq. Yd.	519	518	1,037
Bridge Deck Latex Concrete Overlay, 2 1/2 Inches	Sq. Yd.	519	518	1,037
Cleaning Bridge Scuppers and Downspouts	Each	4	4	8
Steel Railing Removal	Foot	172	0	172
Diamond Grinding (Bridge Section)	Sq. Yd.	456	458	914
Bridge Deck Grooving (Longitudinal)	Sq. Yd.			
Protective Coat	Sq. Yd.	539	539	1,074



NOTES:

1. All shoulder drains and floor drains must be protected during concrete scarification and concrete overlay placement.
2. Use of hand tools is required while working around shoulder drains and floor drains. The cost is included in the Latex Concrete Overlay pay item.
3. All shoulder drains and deck drains shall be cleaned. Cost included with Cleaning Bridge Scuppers and Downspouts.
4. See Sheet 05 OF 14 for bridge deck patching details and additional approach pavement connector repairs.
5. See Sheets 10 and 11 OF 14 for Bridge Fence Railing details.
6. Longitudinal Grooving shall be applied only in traffic lanes.



USER NAME =	DESIGNED - BMW	REVISED -
CHECKED - JRT	REVISIONS -	
PLOT SCALE =	DRAWN - BMW	REVISED -
PLOT DATE =	CHECKED - JRT	REVISED -

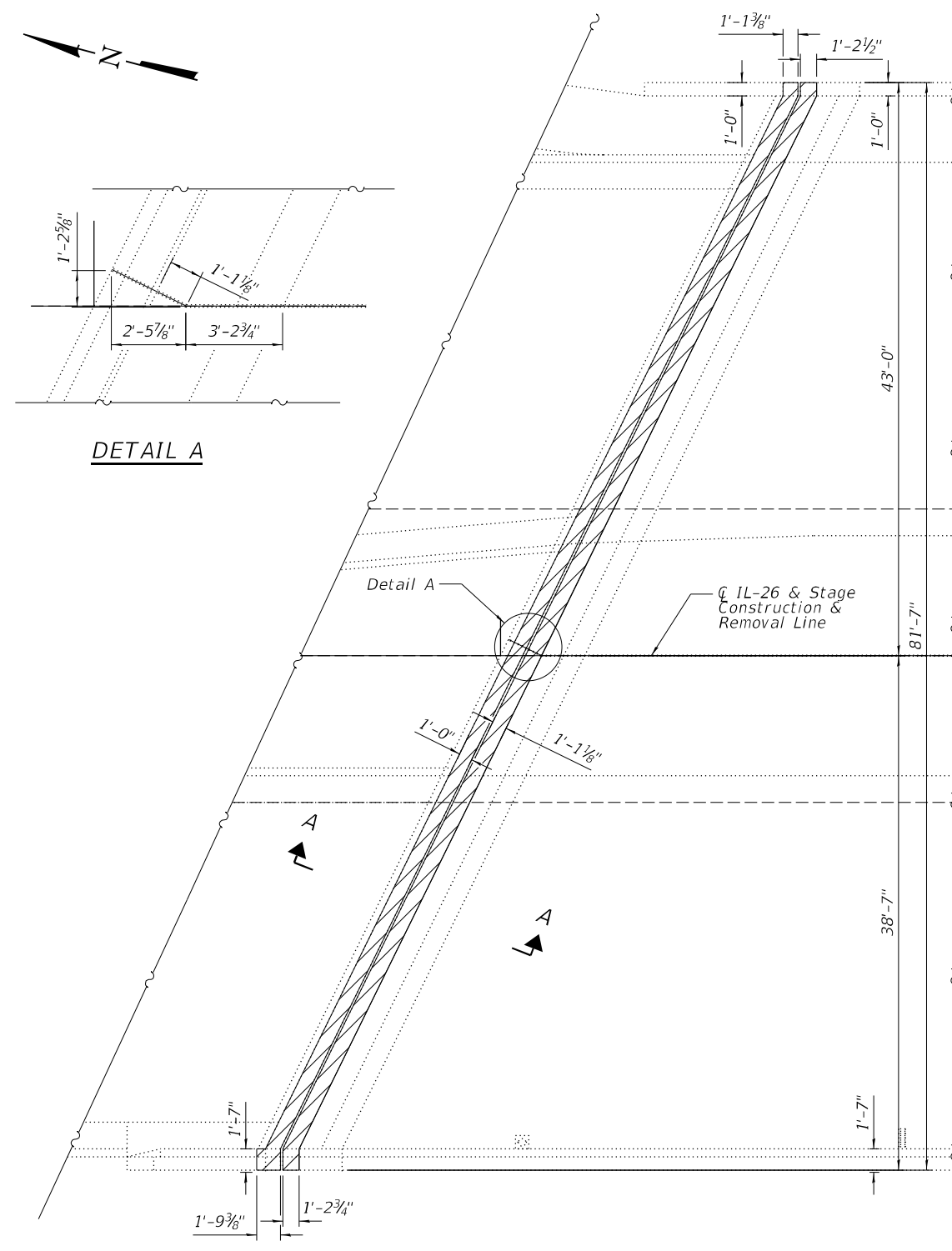
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEARING SURFACE DETAILS
 IL 26 OVER UP RR - S.N. 052-0062**

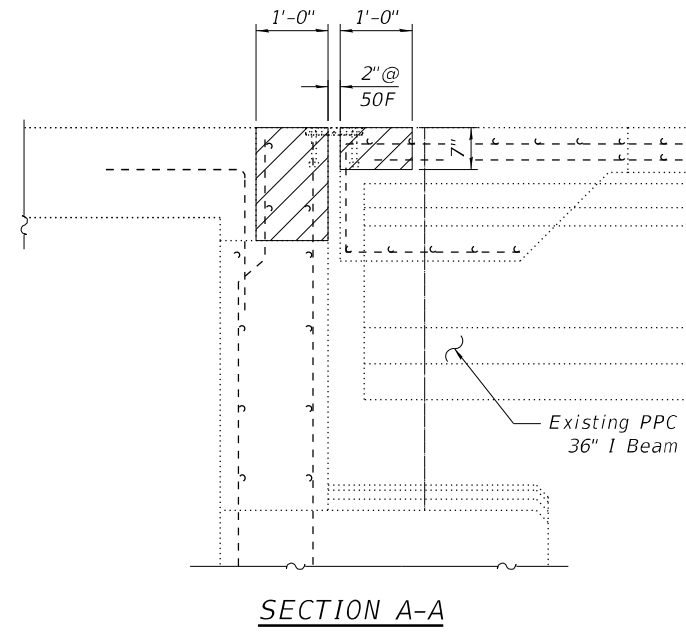
SHEET 4 OF 14 SHEETS

F.A.P. RTE. 316	SECTION 101(V-BR & R-2)BDR	COUNTY LEE	TOTAL SHEETS 38	SHEET NO. 18
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				

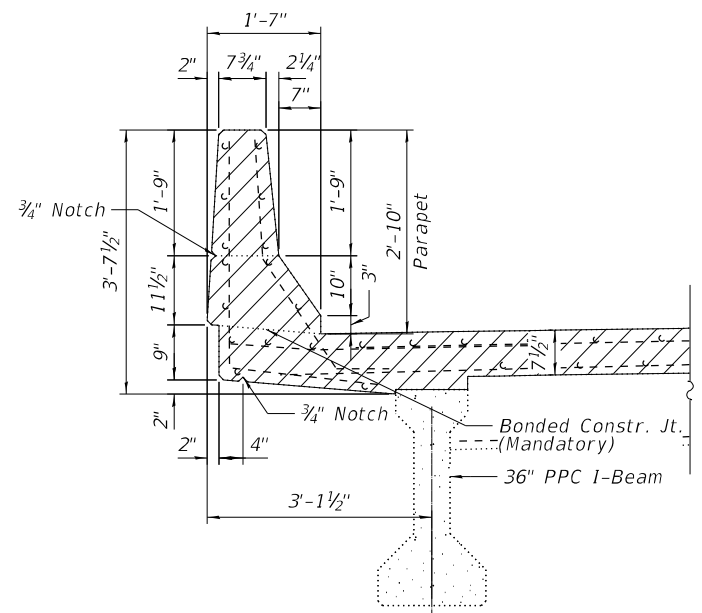
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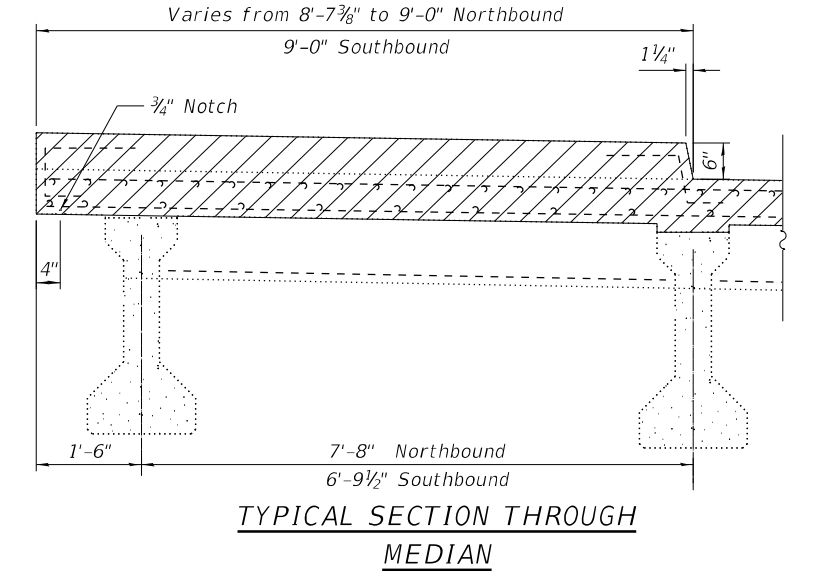
NORTH ABUTMENT JOINT PLAN - REMOVAL
 South abutment joint similar



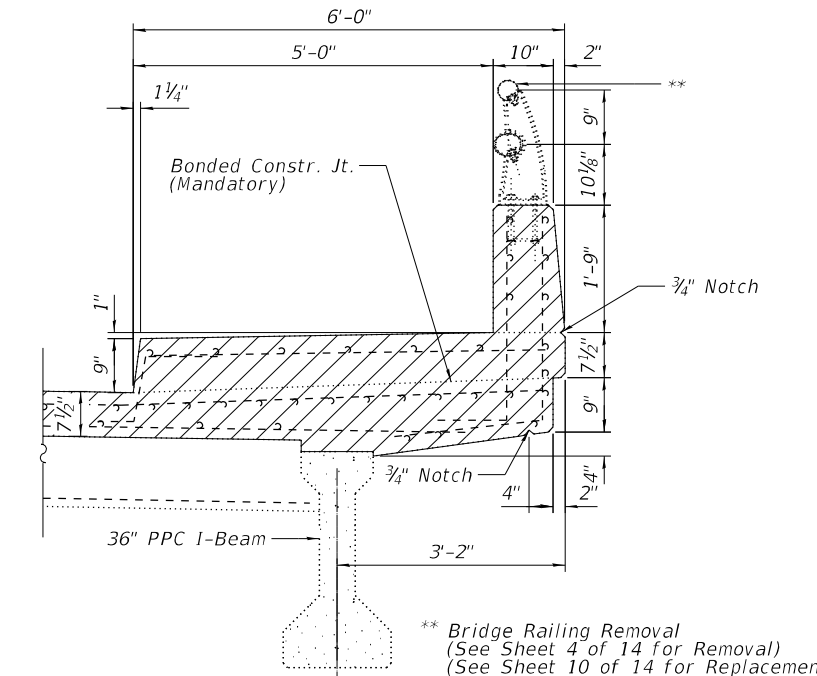
SECTION A-A



TYPICAL SECTION THROUGH PARAPET SOUTHBOUND



TYPICAL SECTION THROUGH MEDIAN



TYPICAL SECTION THROUGH PARAPET NORTHBOUND

NOTES
 Removal and Disposal of Exist. Expansion Joint is included in the cost of CONCRETE REMOVAL.

LEGEND
 Concrete Removal

BILL OF MATERIAL

Pay Item	Unit	Quantity		Total
		Stage I	Stage II	
** Concrete Removal	Cu. Yd.	10.4	9.7	20.1

** Concrete Removal Quantity is for end of the Deck removal, including parapet and joint hatchblock.



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PLOT DATE =	DRAWN - BMW	REVISED -
	CHECKED - JRT	REVISED -

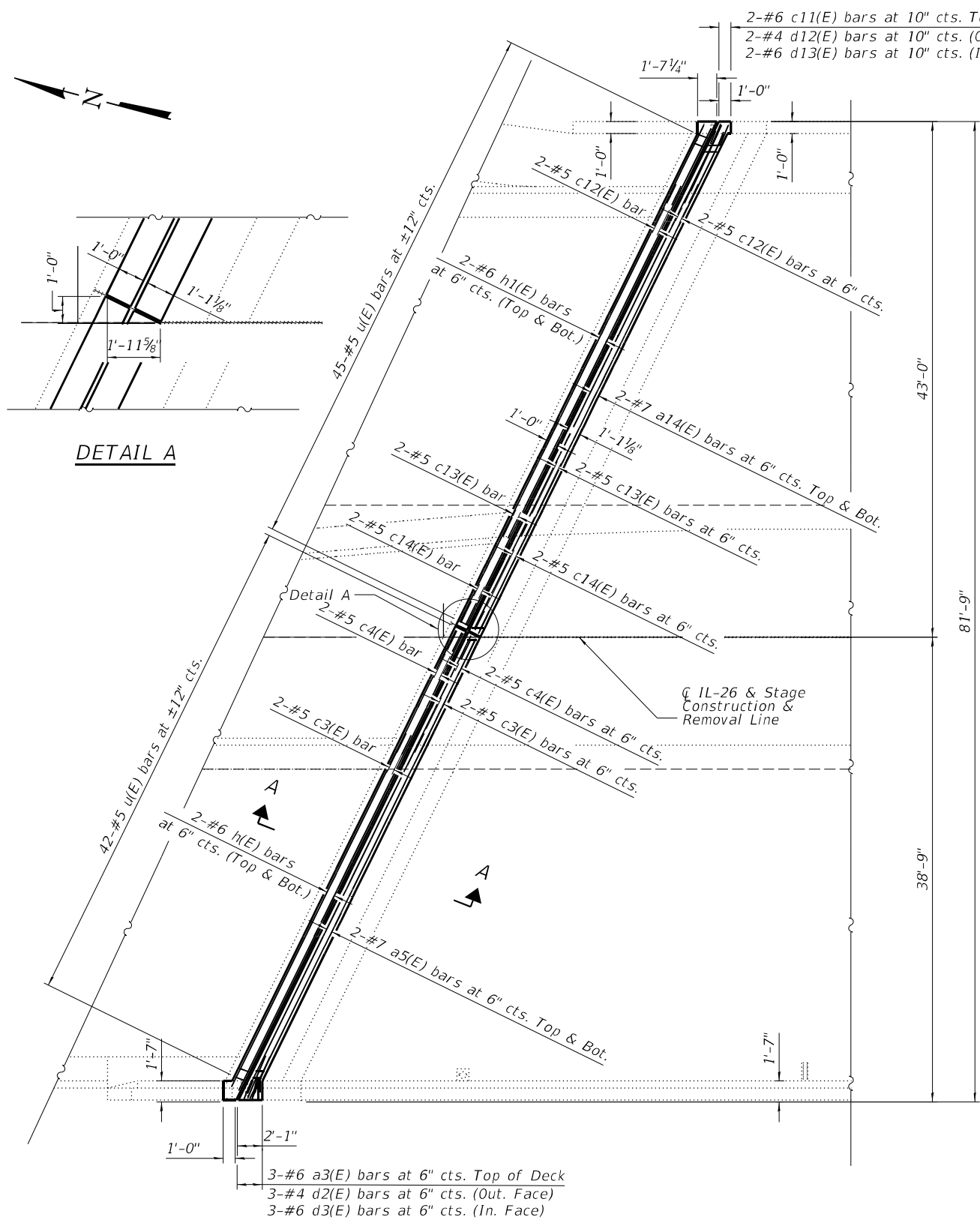
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT CONCRETE REMOVAL DETAILS
 IL 26 OVER UP RR - S.N. 052-0062**

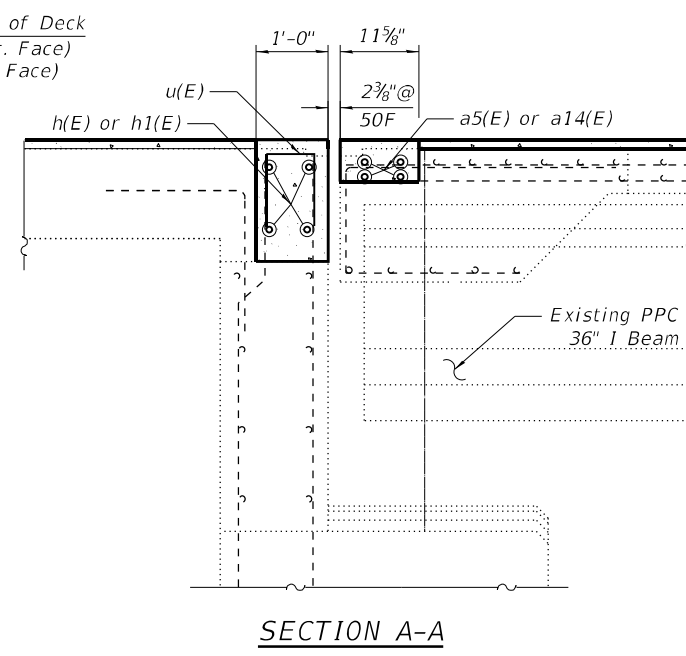
SHEET 6 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				

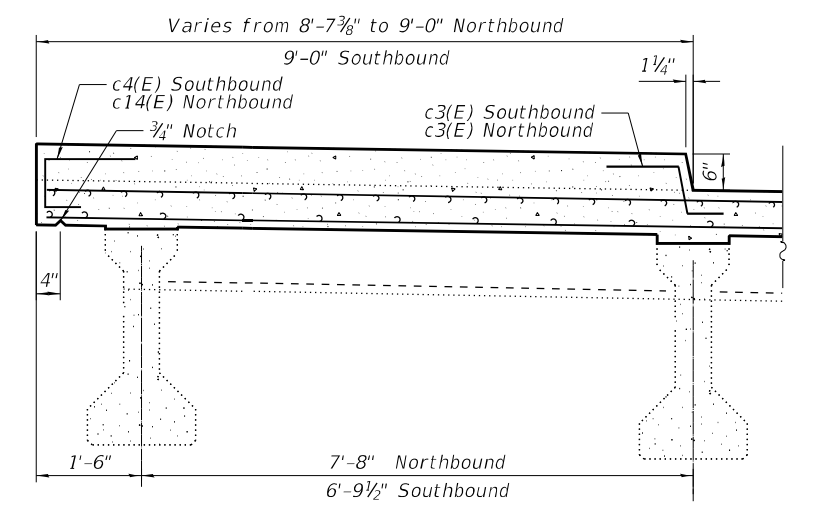
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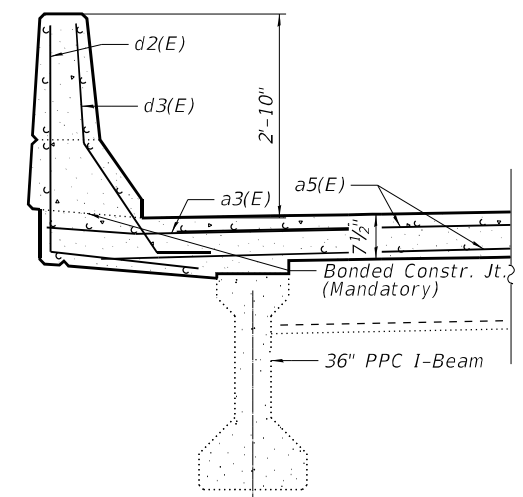
NORTH ABUTMENT JOINT REPLACEMENT PLAN
 South abutment joint similar



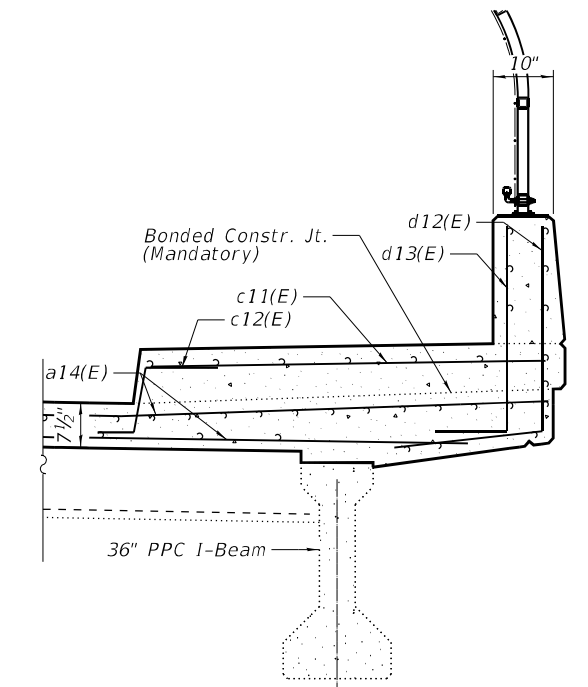
SECTION A-A



TYPICAL SECTION THROUGH MEDIAN



TYPICAL SECTION THROUGH PARAPET SOUTHBOUND



TYPICAL SECTION THROUGH PARAPET NORTHBOUND

NOTES

See sheet 8 of 14 for Bar Details and Bill of Materials.



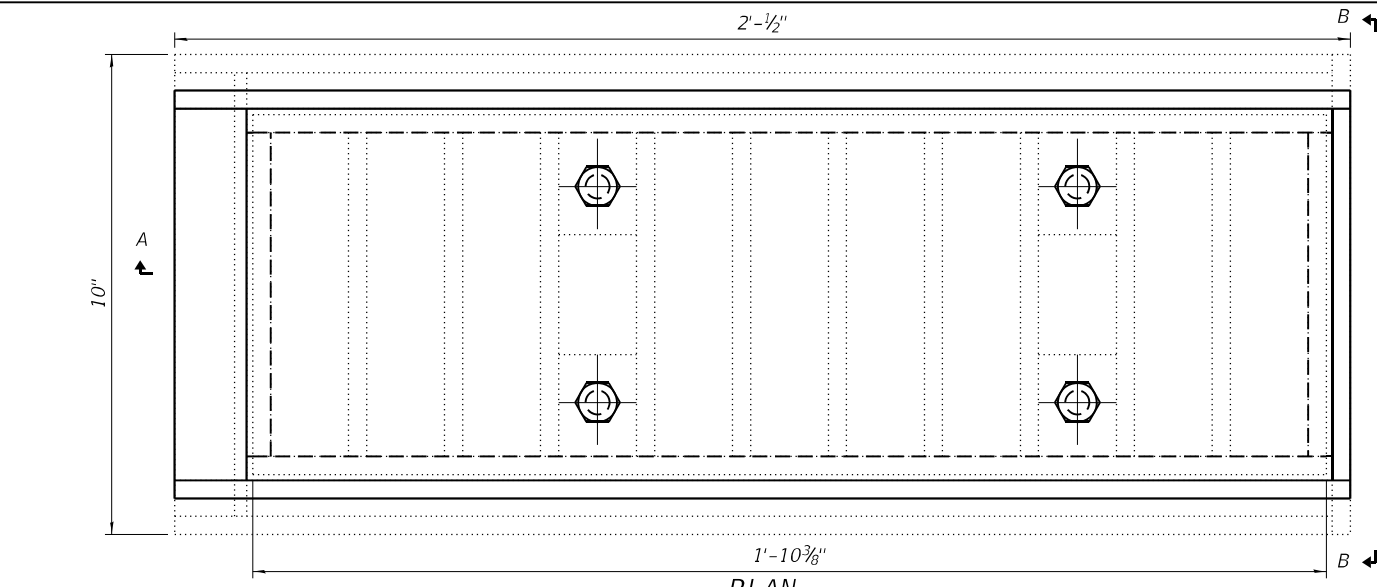
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PLOT SCALE =	CHECKED - JRT	REVISED -
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	CHECKED - JRT	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

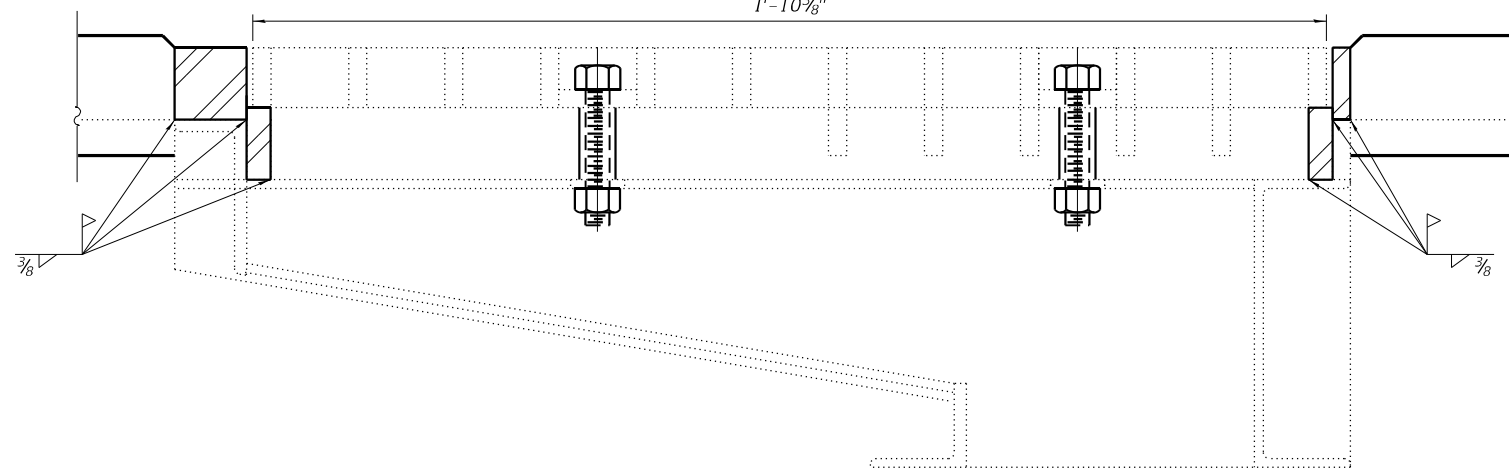
**ABUTMENT CONCRETE REMOVAL DETAILS
 IL 26 OVER UP RR - S.N. 052-0062**

SHEET 7 OF 14 SHEETS

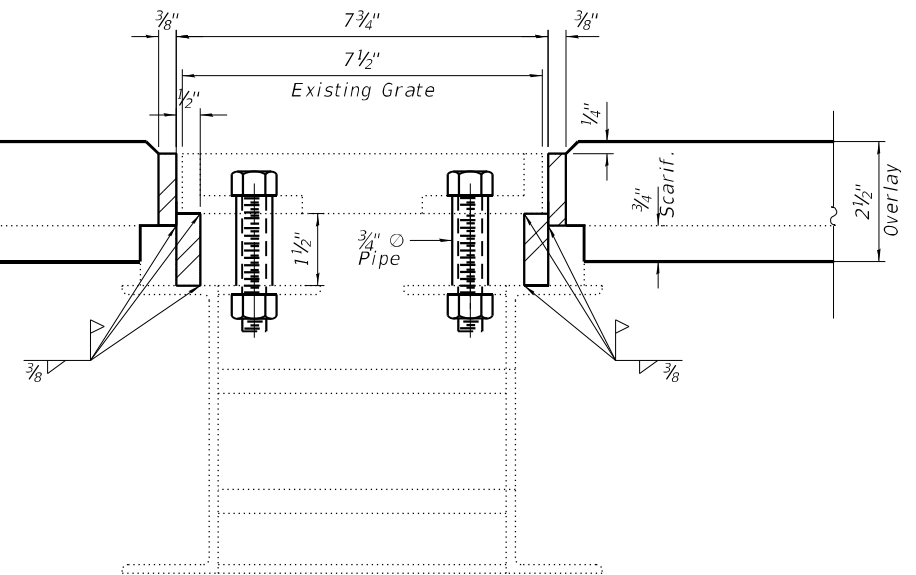
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316	101(V-BR & R-2)BDR	LEE	38	21
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				



PLAN



SECTION A-A



SECTION B-B

NOTES

All structural steel shall conform to AASHTO Classification M-270 Grade 36.

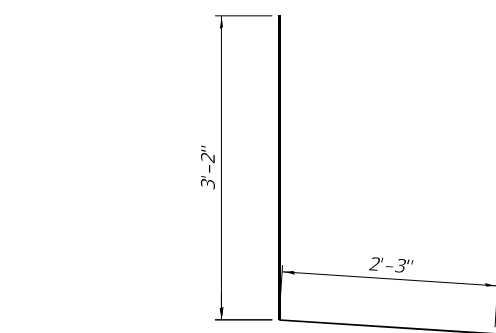
Bolts shall be 1/2" O AASHTO M164 Type 1, mechanically galvanized. The adjusting scupper ring and 3/4" O pipe sleeve spacers shall be hot dip galvanized.

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

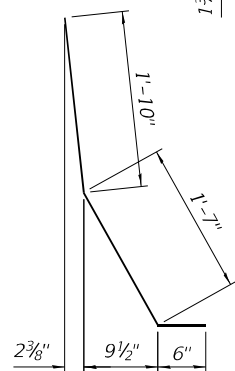
The contractor shall ensure that no damage is done to existing grates to be reused.

Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.

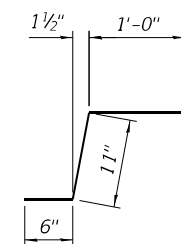
Cost of all labor and materials necessary to remove existing grates, clean scuppers, install adjusting scupper rings and reinstall grates is included in the cost per unit each for drainage scuppers to be adjusted.



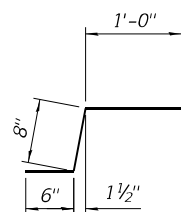
BAR d2(E)
BAR d2(E)



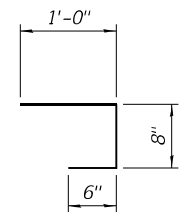
BAR d3(E)



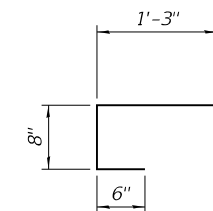
BAR c12(E)



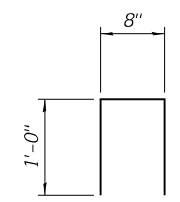
BAR c3(E)



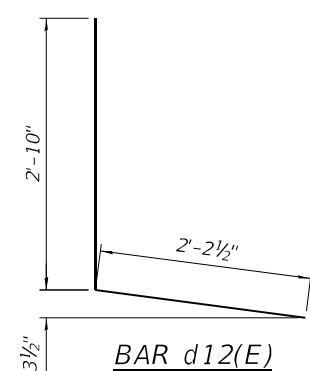
BAR c4(E)



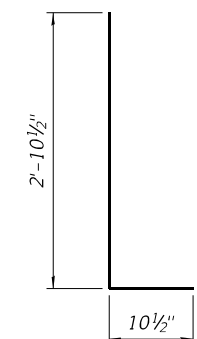
BAR c14(E)



BAR u(E)



BAR d12(E)



BAR d13(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a3(E)	6	#6	4'-0"	—
a5(E)	8	#7	42'-6"	—
a14(E)	8	#7	47'-3"	—
c3(E)	16	#5	2'-2"	┌
c4(E)	8	#5	2'-2"	└
c11(E)	6	#5	5'-8"	—
c12(E)	8	#5	2'-5"	┌
c14(E)	8	#5	2'-5"	└
d2(E)	6	#4	5'-5"	L
d3(E)	6	#5	3'-11"	\
d12(E)	6	#4	5'-1"	L
d13(E)	6	#5	3'-9"	L
h(E)	8	#6	38'-0"	—
h1(E)	8	#6	43'-0"	—
u(E)	174	#5	2'-8"	n
Concrete Superstructure		Cu. Yd.	20.1	
Reinforcement Bars, Epoxy Coated		Pound	3,155	
Drainage Scuppers to be Adjusted		Each	4	

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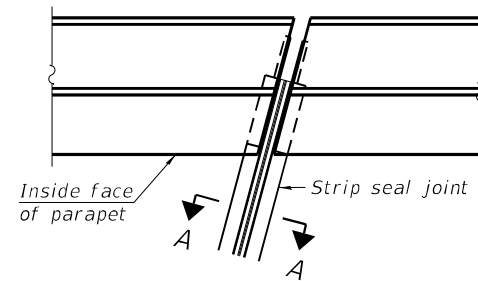
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PLOT DATE =	DRAWN - BMW	REVISED -
	CHECKED - JRT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT CONCRETE REMOVAL DETAILS & SCUPPER ADJUSTMENT
IL 26 OVER UP RR - S.N. 052-0062

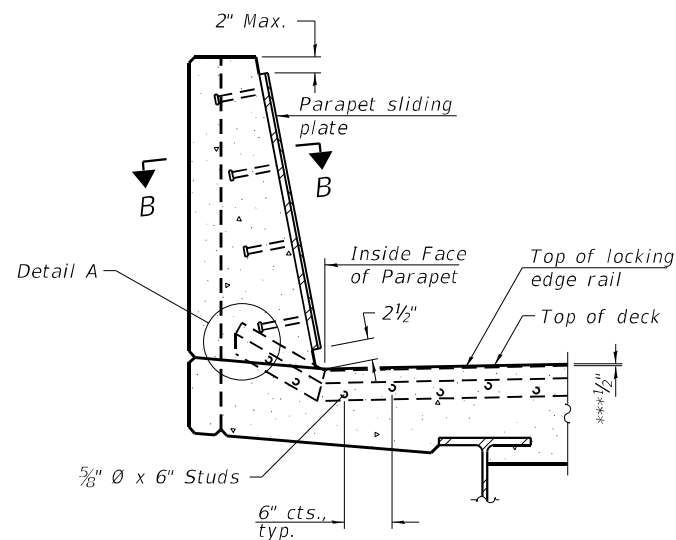
SHEET 8 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				



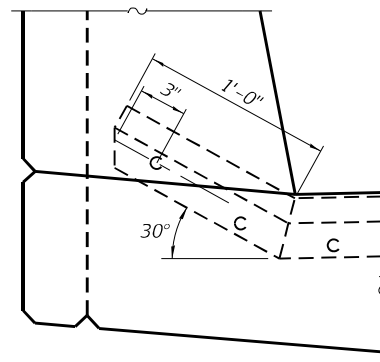
FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

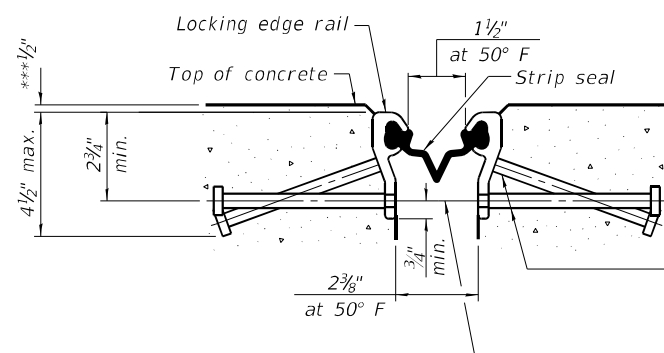


SECTION AT PARAPET

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



DETAIL A



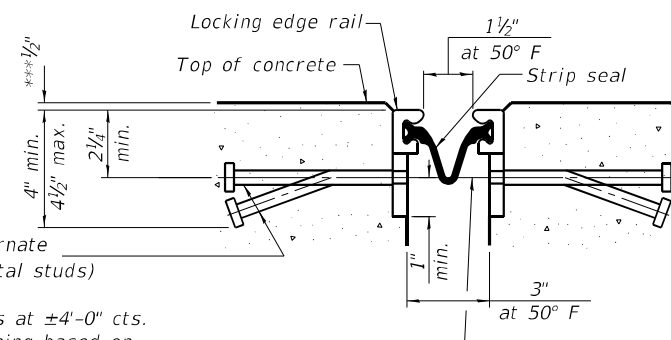
SHOWING ROLLED RAIL JOINT

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

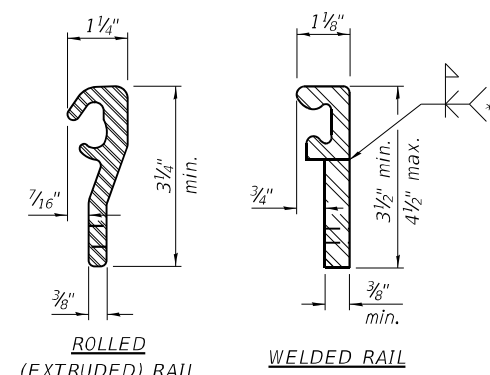
$3/8"$ ϕ threaded rods in $1/16"$ ϕ holes at $\pm 4"-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

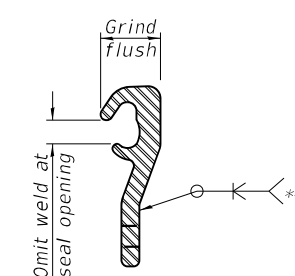


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	183

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of $1/4"$. The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4 1/2"$ maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be $3/16"$ and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
 The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.
 Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.
 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.

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PLOT SCALE =	CHECKED - JRT	REVISED -
PLOT DATE =	DRAWN - BMW	REVISED -
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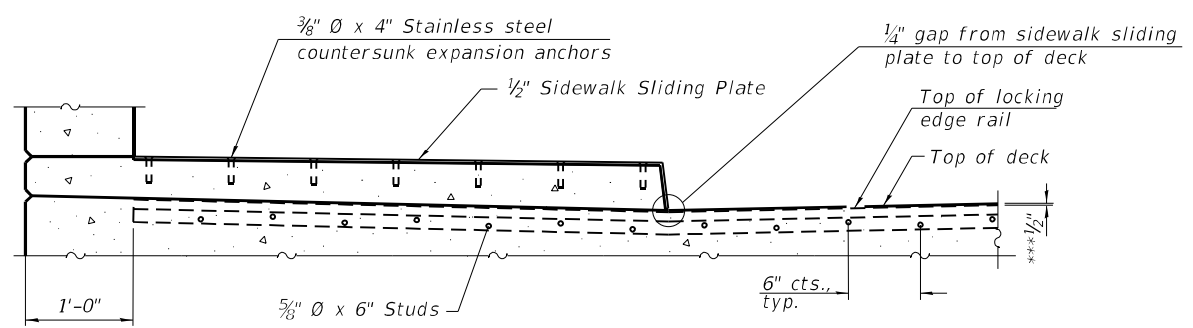
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 IL 26 OVER UP RR - S.N. 052-0062

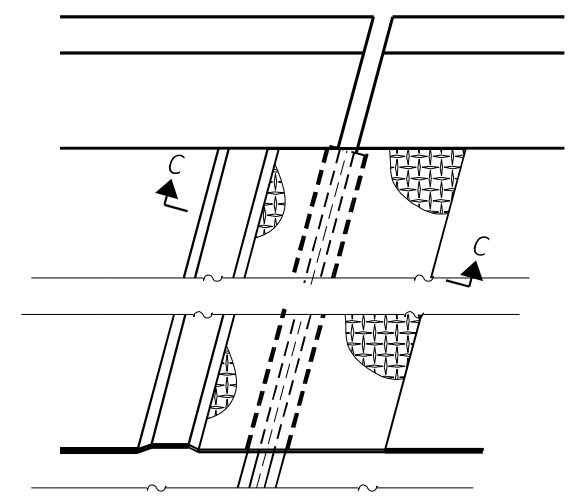
SHEET 9A OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				

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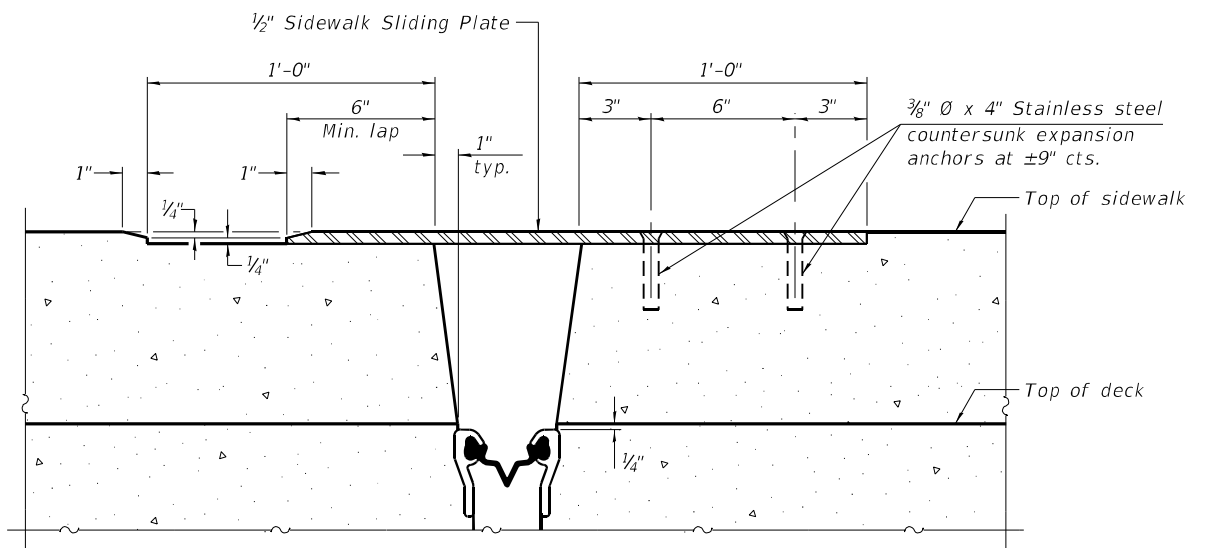


SECTION AT RAISED SIDEWALK

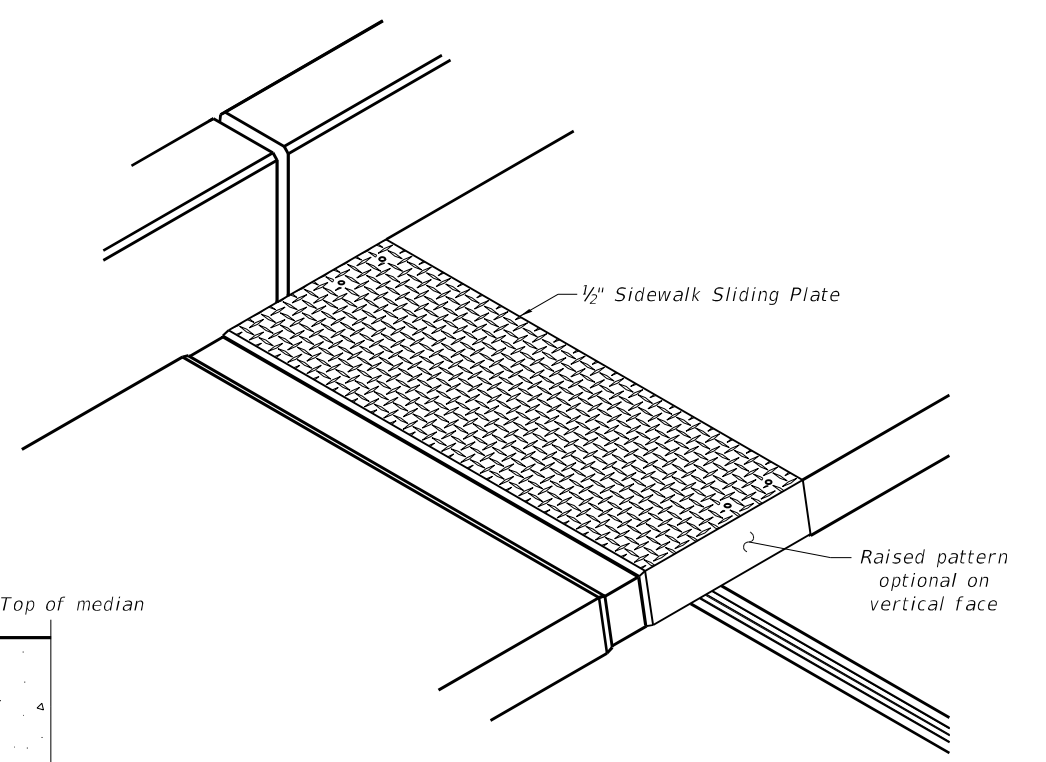


(FOR SKEWS ≤ 30°)

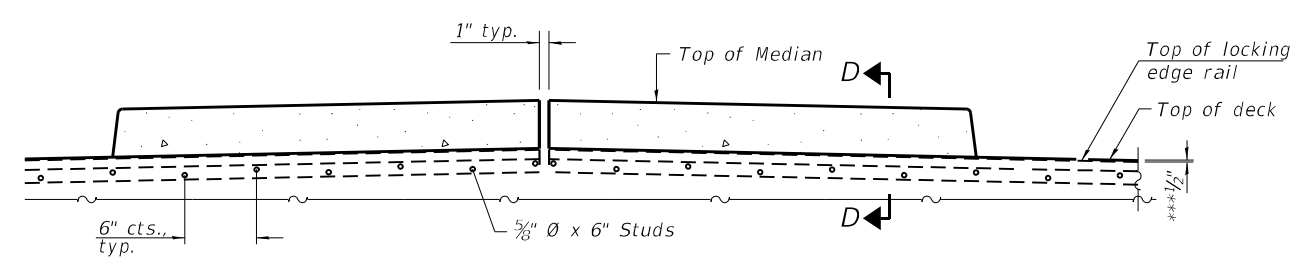
PLAN AT RAISED SIDEWALK



SECTION C-C

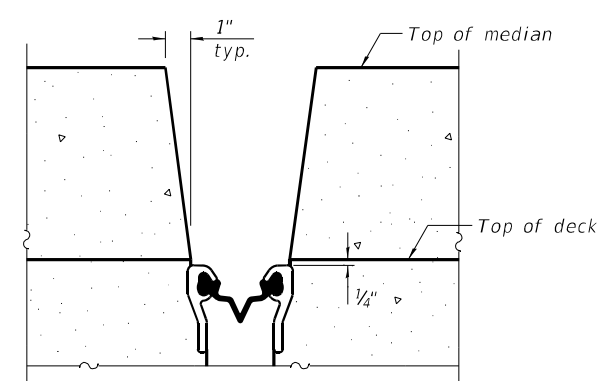


TRIMETRIC VIEW



SECTION AT MEDIAN

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



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

***Prior to grinding



USER NAME =	DESIGNED - BMW	REVISED -
PLOT SCALE =	CHECKED - JRT	REVISED -
PLOT DATE =	DRAWN - BMW	REVISED -
	CHECKED - JRT	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

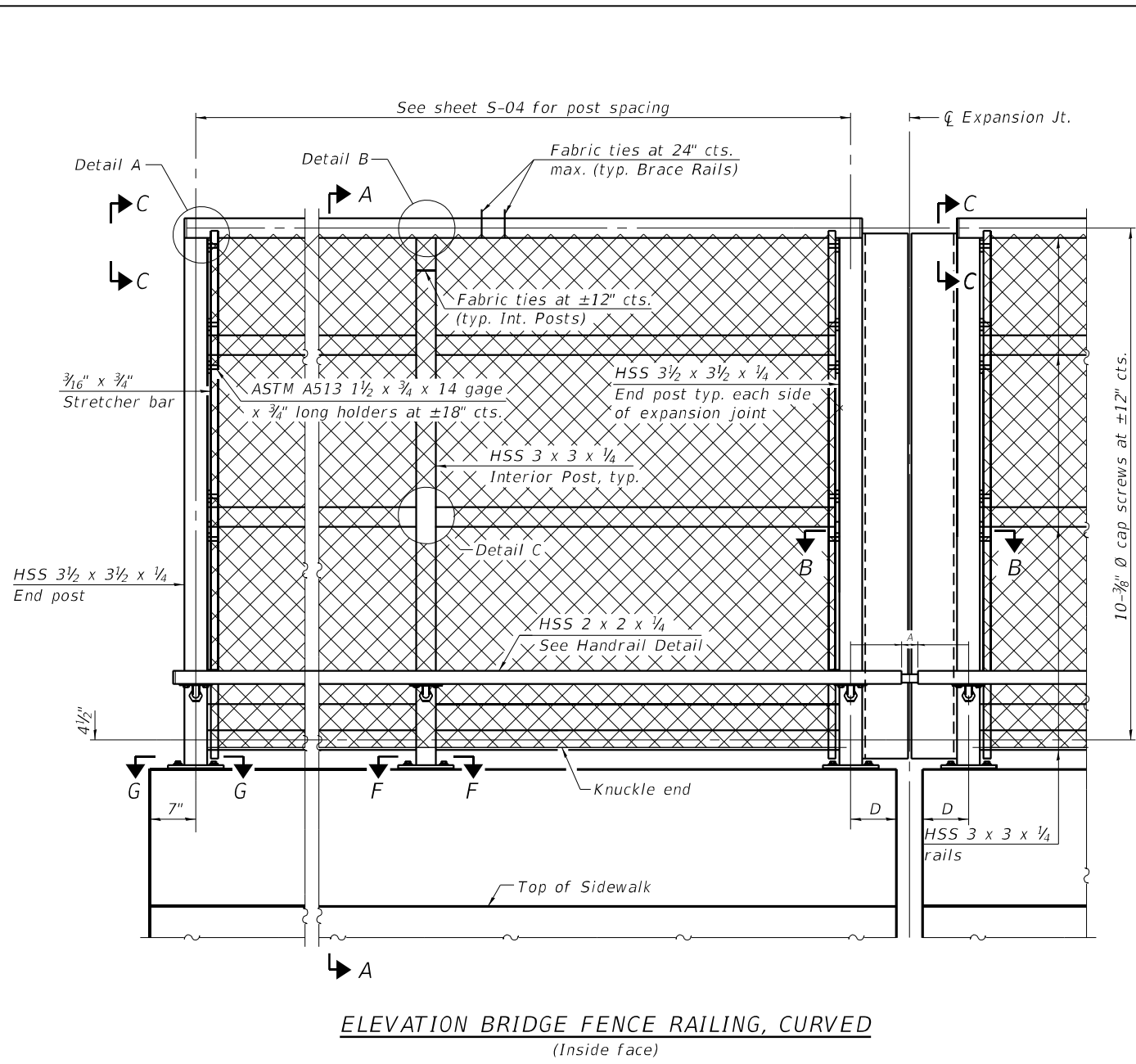
**PREFORMED JOINT STRIP SEAL
IL 26 OVER UP RR - S.N. 052-0062**

SHEET 9B OF 14 SHEETS

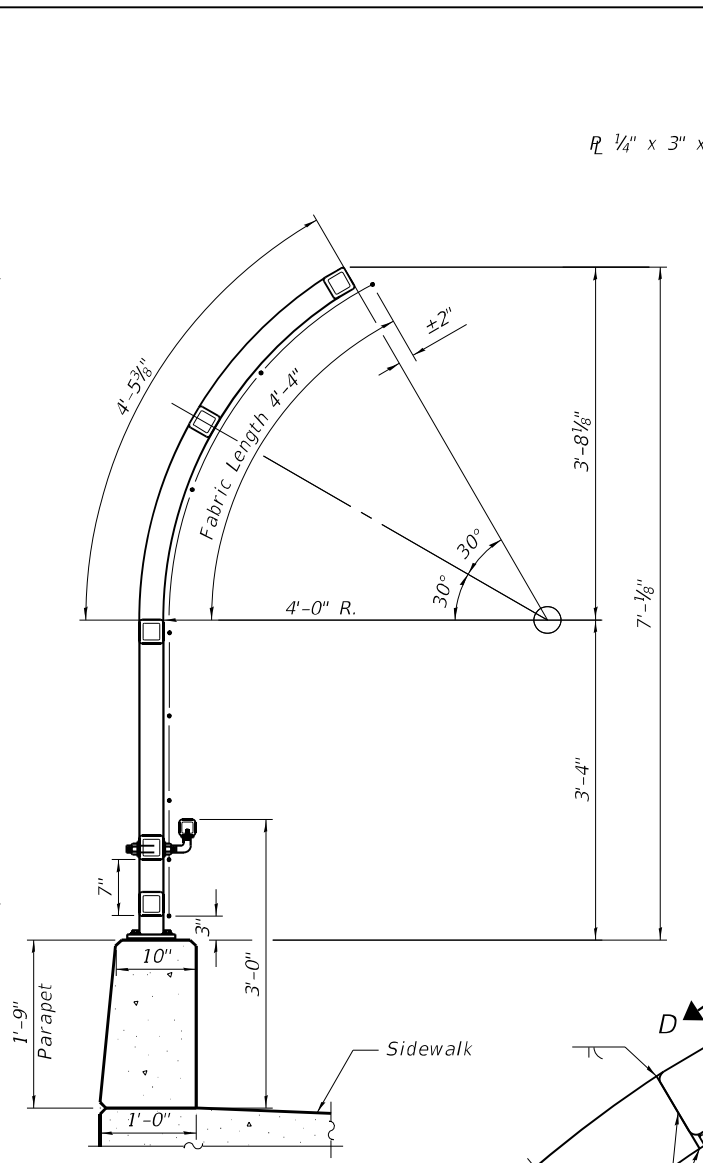
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	23B
CONTRACT NO. 64S29				

ILLINOIS FED. AID PROJECT

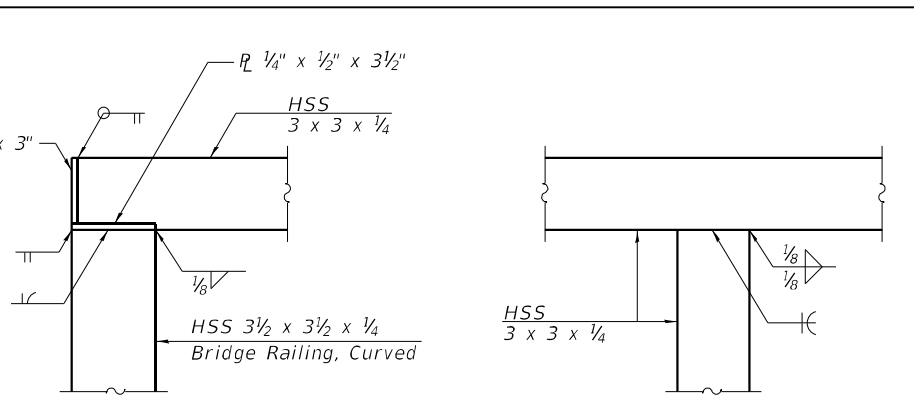
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ELEVATION BRIDGE FENCE RAILING, CURVED
(Inside face)

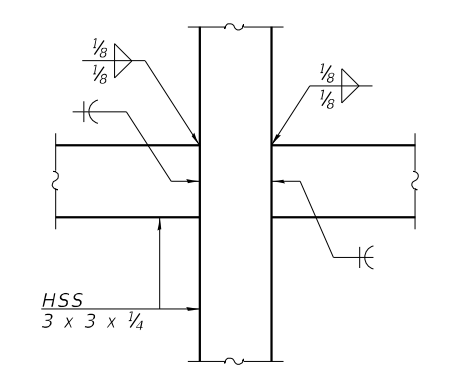


SECTION A-A

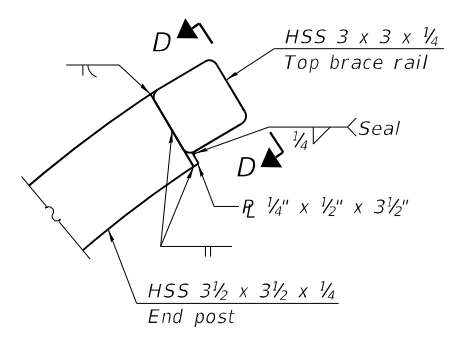


DETAIL A

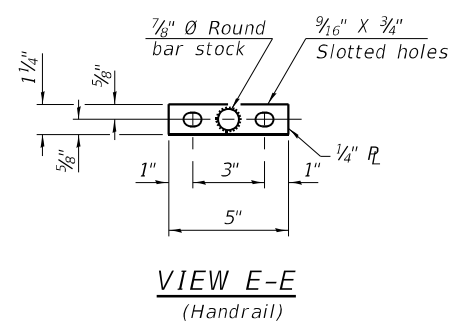
DETAIL B



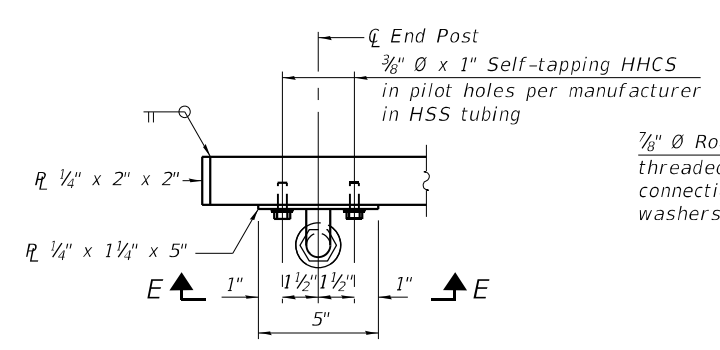
DETAIL C



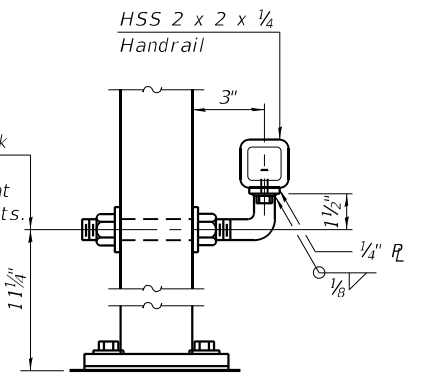
VIEW C-C



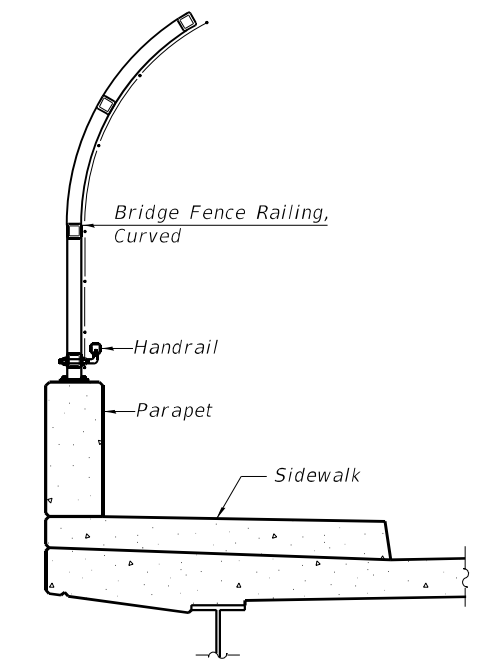
VIEW E-E
(Handrail)



HANDRAIL DETAIL



VIEW D-D



SECTION THRU DECK

RAILING CRITERIA

NCHRP 350 Test Level	4
Railing Weight (plf)	80
Max Post Spacing	10'-0"

USER NAME =	DESIGNED - JRT	REVISED -
CHECKED -	REVISOR -	REVISED -
PLOT SCALE =	DRAWN - JRT	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

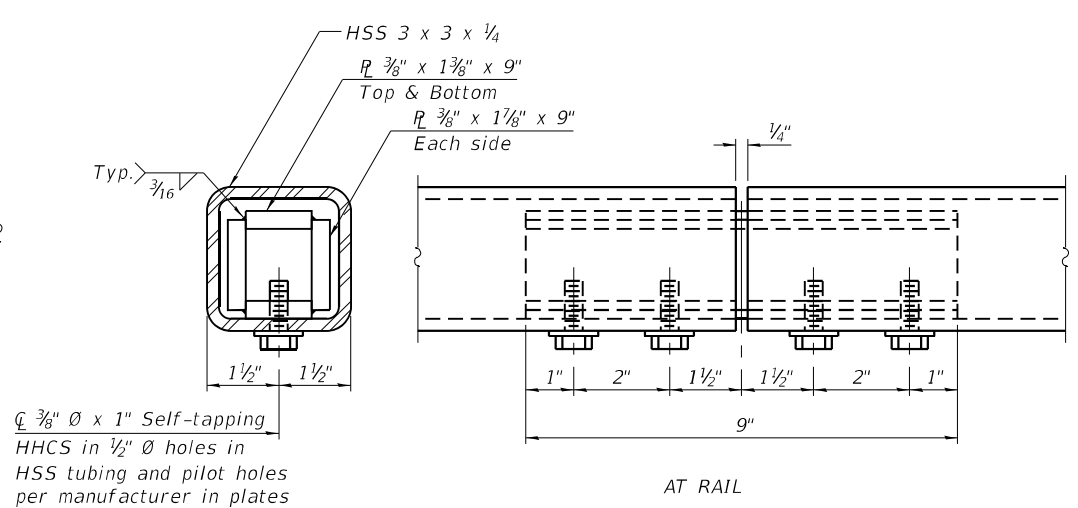
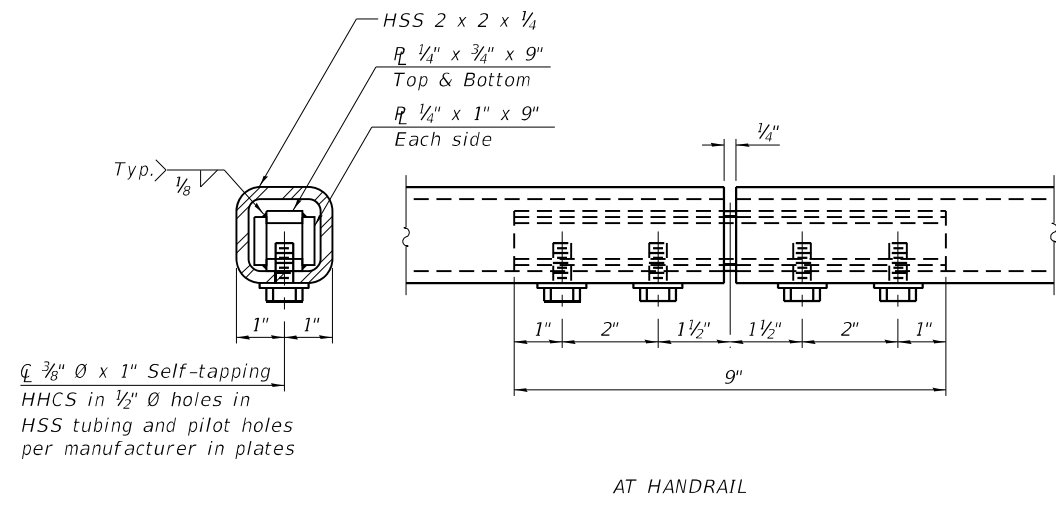
BRIDGE FENCE RAILING, CURVED
IL 26 OVER BNSF RR - S.N. 052-0062

SHEET 10 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	24
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				

(Sheet 1 of 2)

MODEL: sMODELNAME
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 1/21/2024 10:31:33 AM



Notes:
 Place reinforcement bars to miss anchor rod locations. CVN testing is not required for the HSS tubing used in the Bridge Fence Railing, Curved.
 All HSS tubing used for the Handrail shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 All heavy hex nuts shall be according to ASTM A 563 grade DH.
 All fully threaded anchor rods shall be ASTM F1554 grade 105.
 The post base plate shall be fastened to the curb snug tight and given an additional 1/2" turn.
 Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
 When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.
 See sheet 10 of 13 for dimensions of concrete openings at expansion joints.

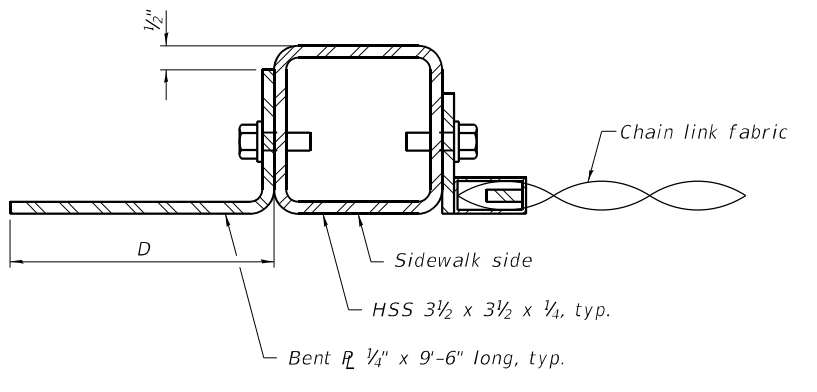
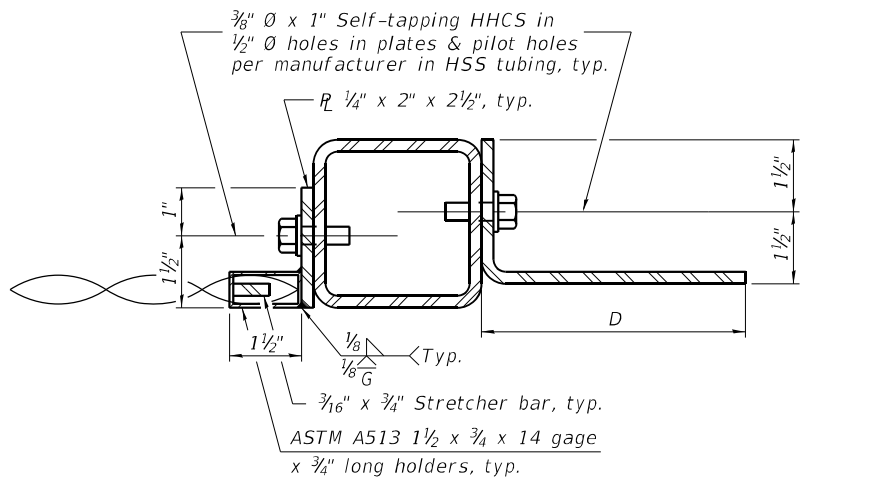
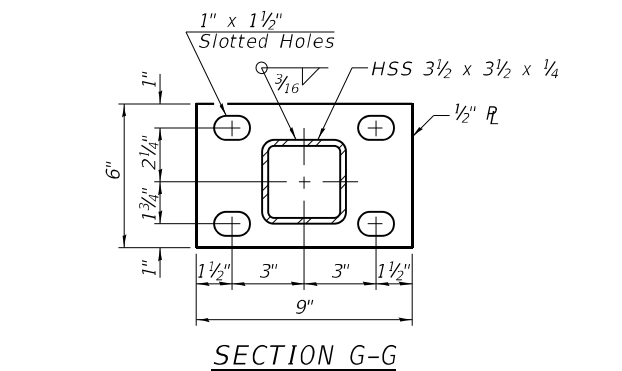
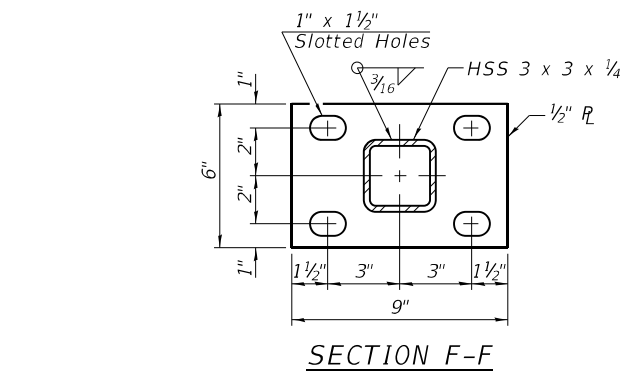
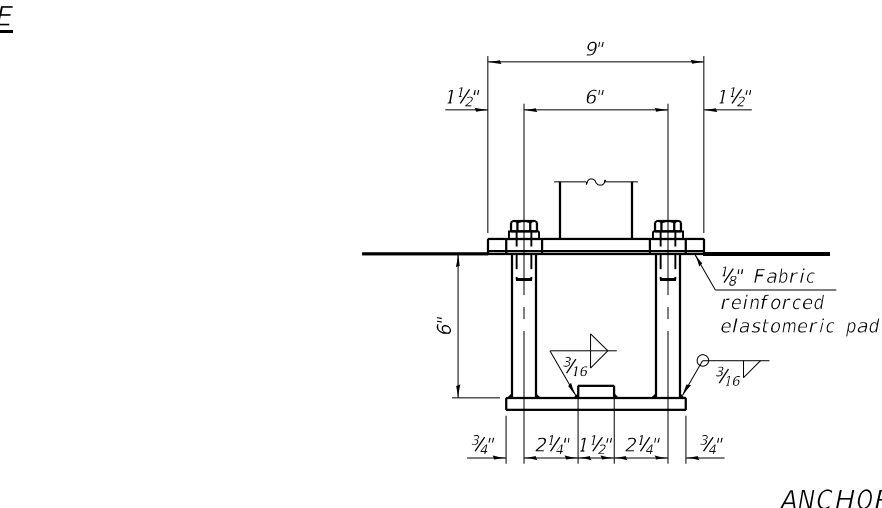
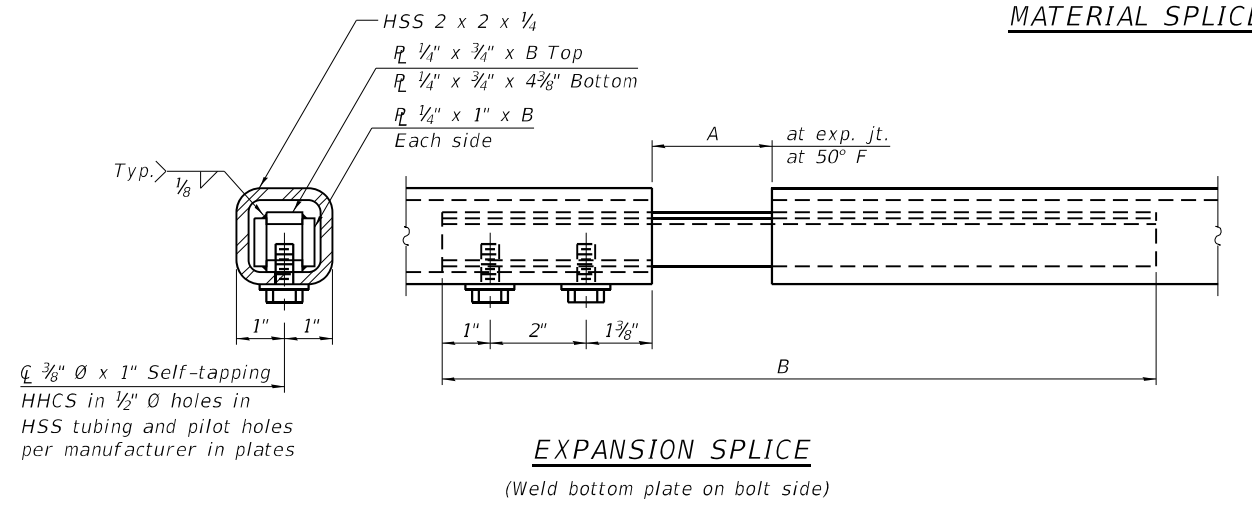


TABLE OF DIMENSIONS

Location	T	A	B	C	D
Over Strip Seal Jt.	≤4"	2 1/2"	1'-5 7/8"	7 1/4"	7"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	1'-11 5/8"		
Over Finger or Modular Jt.	≤15"	8 1/4"	2'-5 5/8"		

T = ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing, Curved	Foot	169

(Sheet 2 of 2)

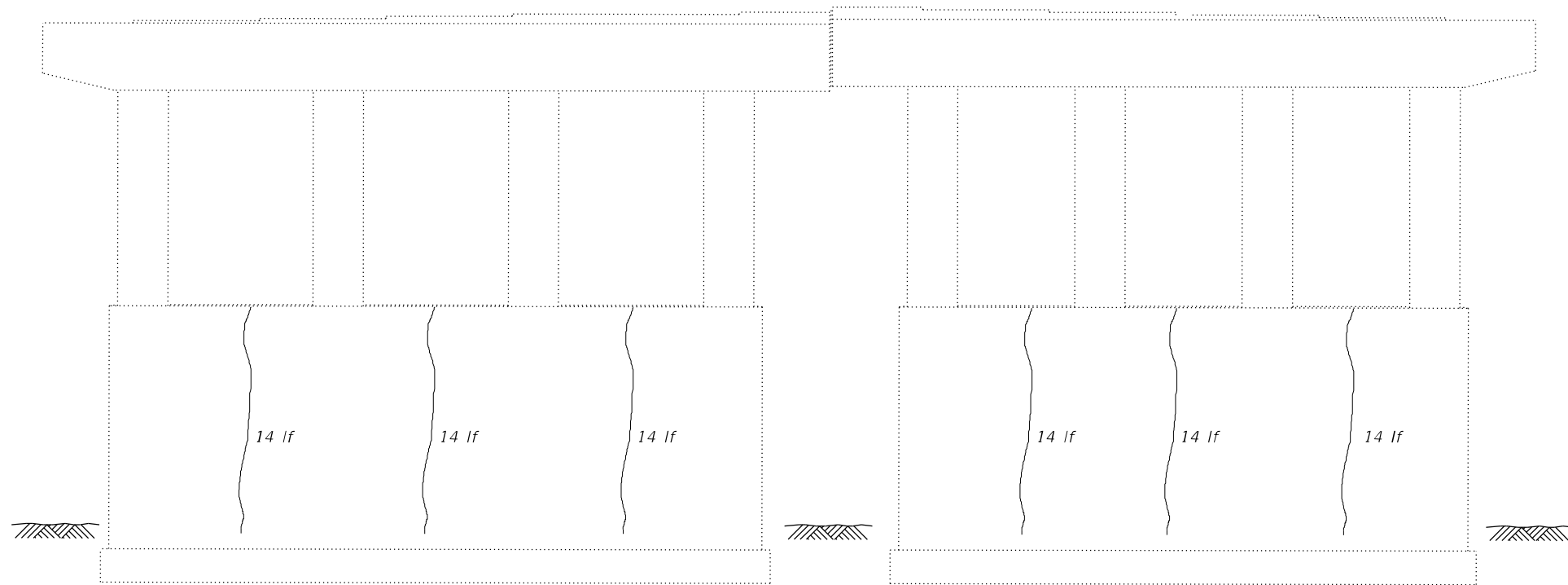
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE FENCE RAILING, CURVED
 IL 26 OVER BNSF RR - S.N. 052-0062**

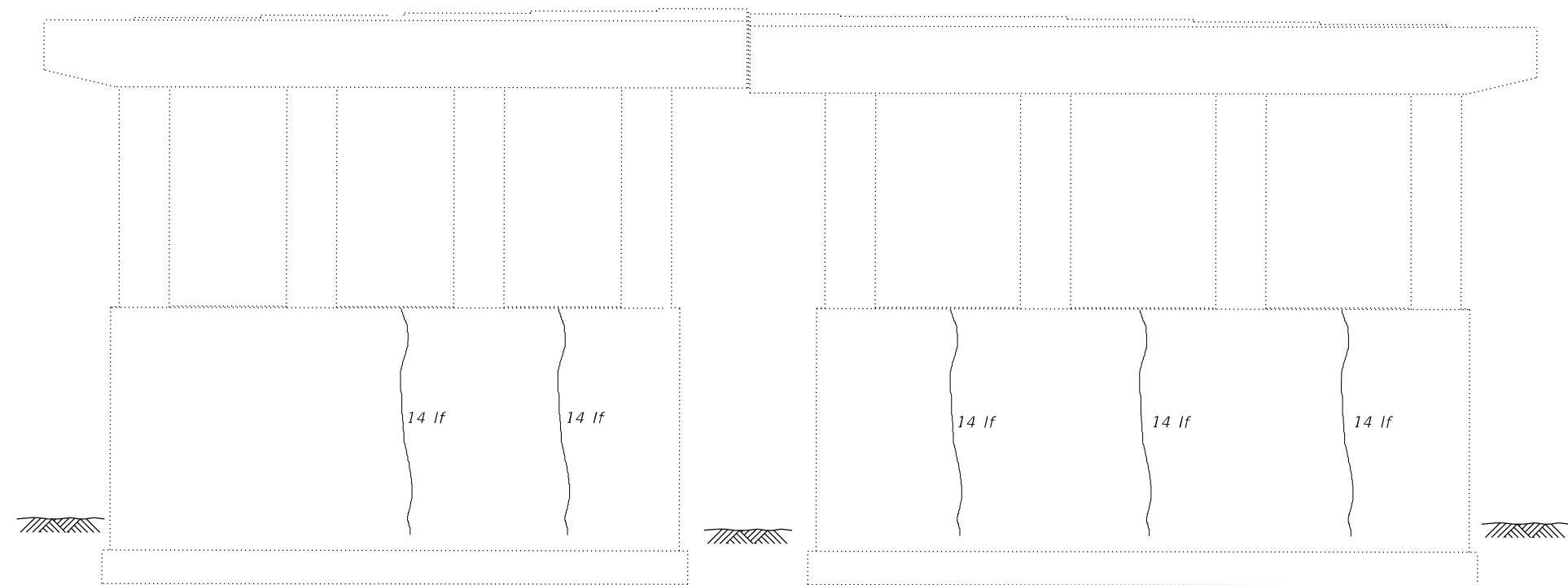
SHEET 11 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	25
CONTRACT NO. 64S29				
ILLINOIS FED. AID PROJECT				

MODEL: sMODELNAME5
 FILE NAME: C:\Users\jpush\OneDrive - QEI\Documents\Projects\2316_IDOT_PTB_207-023_Var+Var+Bridge\400-Work\Work Order 2\410-CADD\052-0062\Sheets\5-12 - Pier 1 Repairs.dgn

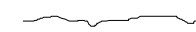


PIER 1 - NORTH ELEVATION
 (Looking South)



PIER 1 - SOUTH ELEVATION
 (Looking North)

LEGEND

 Epoxy Crack Injection
 lf - Linear Feet



USER NAME =	DESIGNED - BMW	REVISED -
	CHECKED - JRT	REVISED -
PLOT SCALE =	DRAWN - BMW	REVISED -
PLOT DATE =	CHECKED - JRT	REVISED -

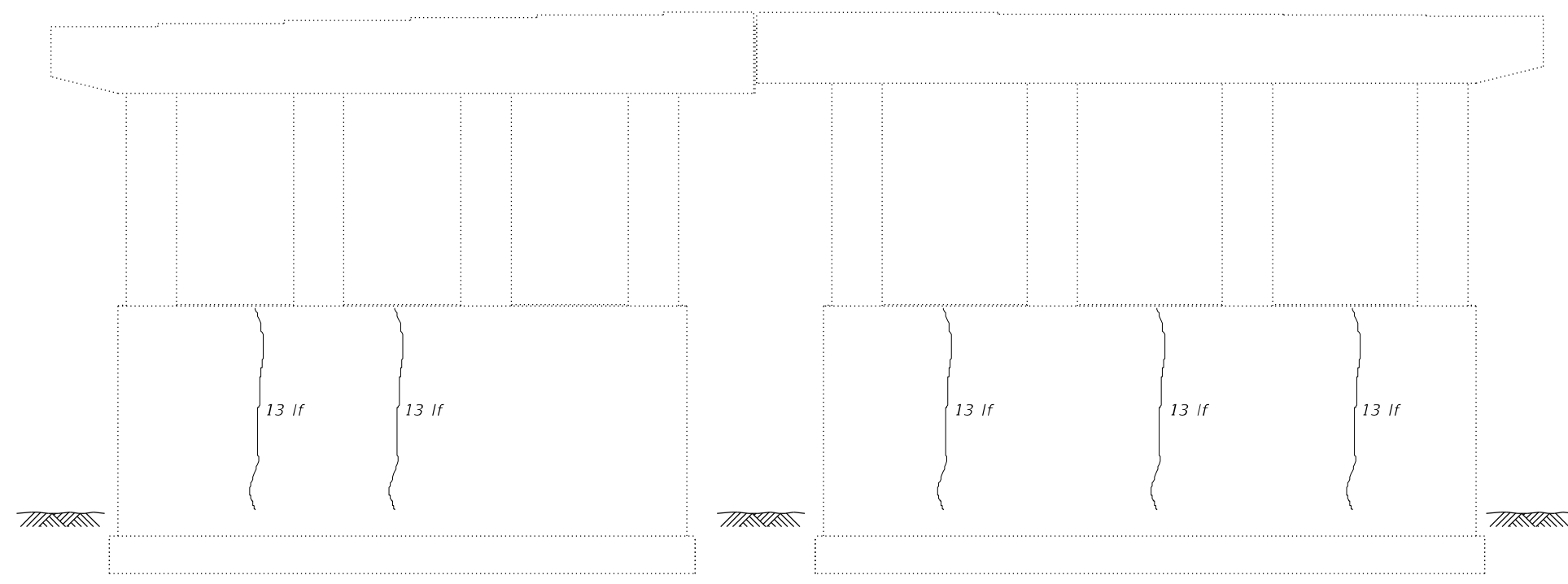
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 REPAIRS
IL 26 OVER UP RR - S.N. 052-0062

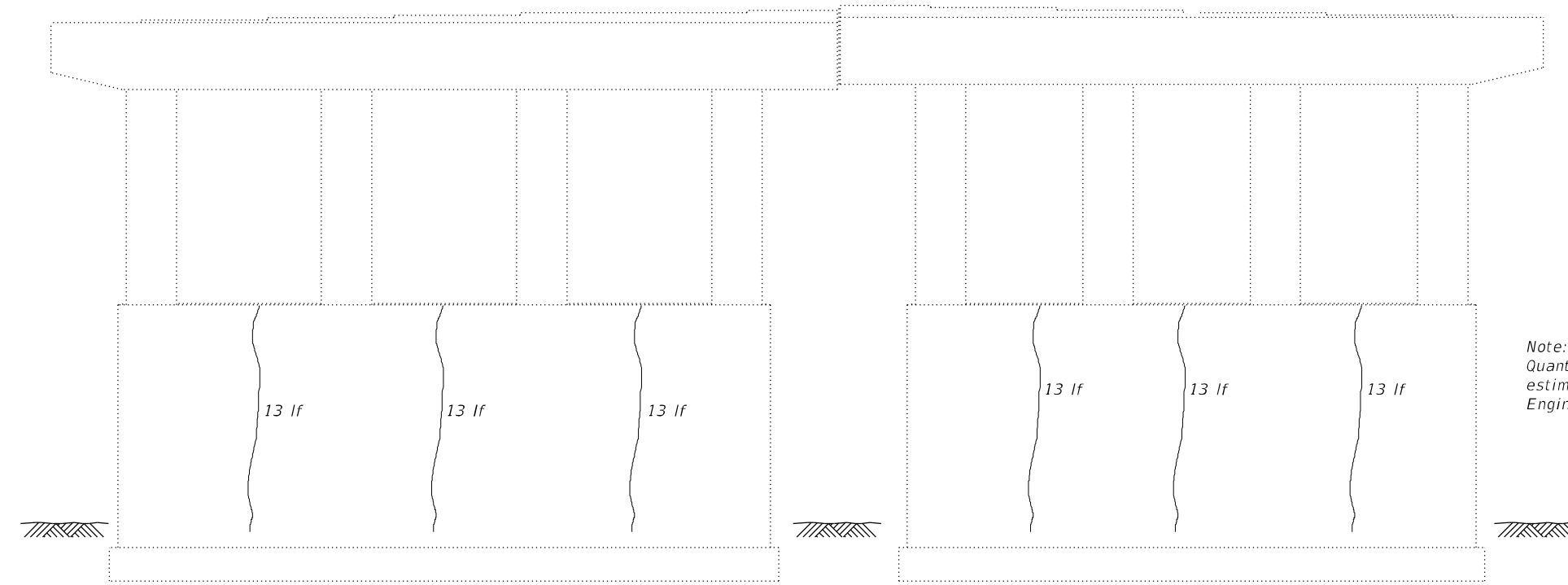
SHEET 12 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	26
			CONTRACT NO. 64S29	
		ILLINOIS	FED. AID PROJECT	

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PIER 2 - SOUTH ELEVATION
 (Looking South)



PIER 2 - NORTH ELEVATION
 (Looking North)

LEGEND

 Epoxy Crack Injection
 lf - Linear Feet

Note:
 Quantities for Epoxy Crack Injection for the substructure repairs are estimated. Areas to be repaired shall be determined in the field by the Engineer and areas and final quantities marked on the As-Built Plans.

BILL OF MATERIAL

ITEM	UNIT	PIER 1	PIER 2	TOTAL
Epoxy Crack Injection	Foot	154	130	284



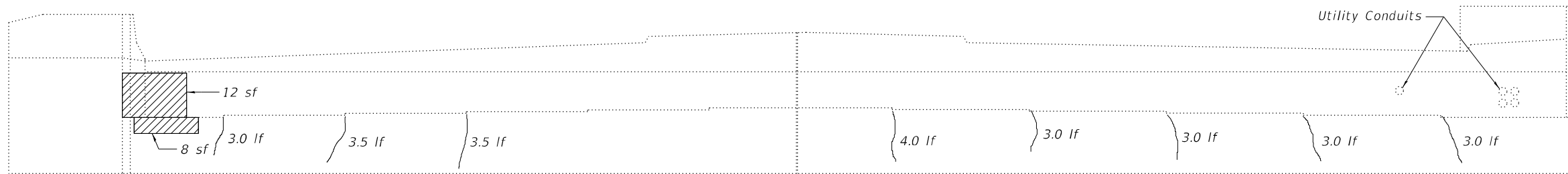
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	CHECKED - JRT	REVISED -
PLOT SCALE =	DRAWN - BMW	REVISED -
PLOT DATE =	CHECKED - JRT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

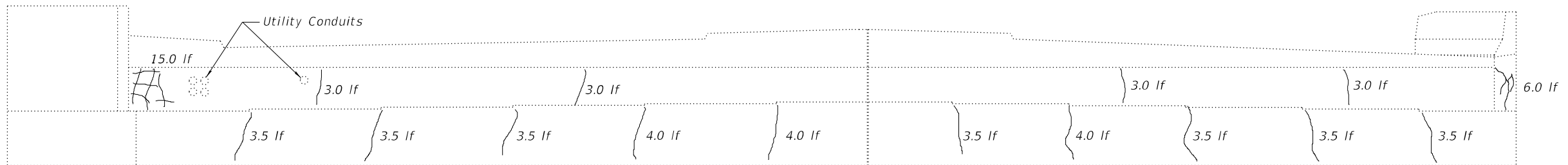
PIER 2 REPAIRS
IL 26 OVER UP RR - S.N. 052-0062

SHEET 13 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64S29	

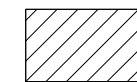


NORTH ABUTMENT ELEVATION

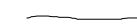


SOUTH ABUTMENT ELEVATION

LEGEND



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



Epoxy Crack Injection

Note:
Quantities for Structural Repair of Concrete and Epoxy Crack Injection for the substructure repairs are estimated. Areas to be repaired shall be determined in the field by the Engineer and areas and final quantities marked on the As-Built Plans.

BILL OF MATERIAL

ITEM	UNIT	NORTH ABUT.	SOUTH ABUT.	TOTAL
Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)	Sq. Ft.	20	0	20
Epoxy Crack Injection	Foot	26	69.5	89.5
Concrete Sealer	Sq. Ft.	20	0	20

MODEL: SMODELNAMES
FILE NAME: C:\Users\jpush\OneDrive - OET\QDoc\QConsul\Projects\2316_IDOT_PTB_207-023_Va-Va-Bridge\400-Work\Work Order 2\410-CADD\052-0062\Sheets\S-14 - Abut. Repairs.dgn



USER NAME =	DESIGNED - BMW	REVISED -
	CHECKED - JRT	REVISED -
PLOT SCALE =	DRAWN - BMW	REVISED -
PLOT DATE =	CHECKED - JRT	REVISED -

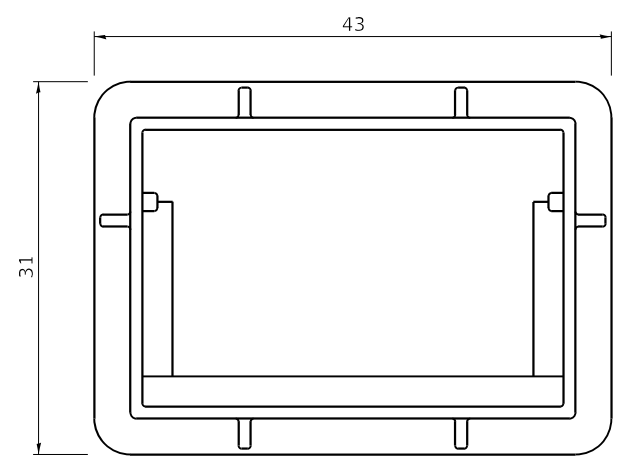
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS
IL 26 OVER UP RR - S.N. 052-0062

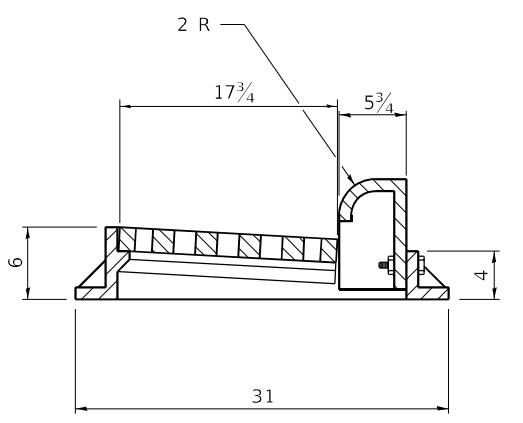
SHEET 14 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	28
			CONTRACT NO. 64S29	
		ILLINOIS	FED. AID PROJECT	

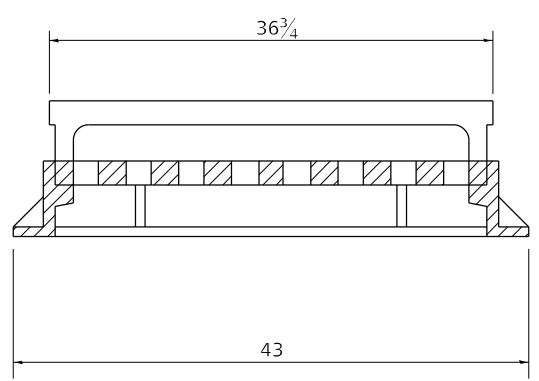
FRAME AND GRATE FOR INLETS, SPECIAL



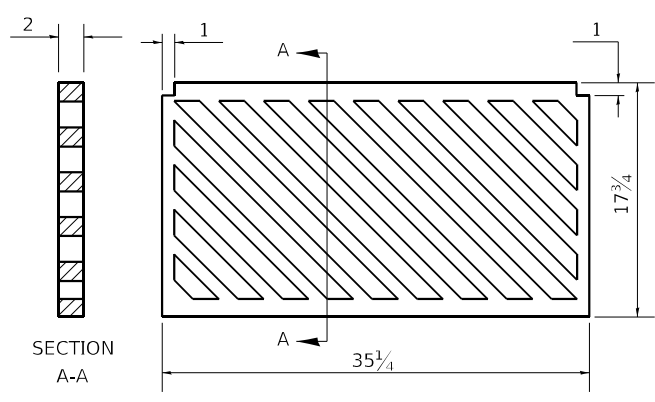
PLAN OF FRAME
WITHOUT GRATE AND CURB BOX



TRANSVERSE SECTION



LONGITUDINAL SECTION



PLAN OF GRATE

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

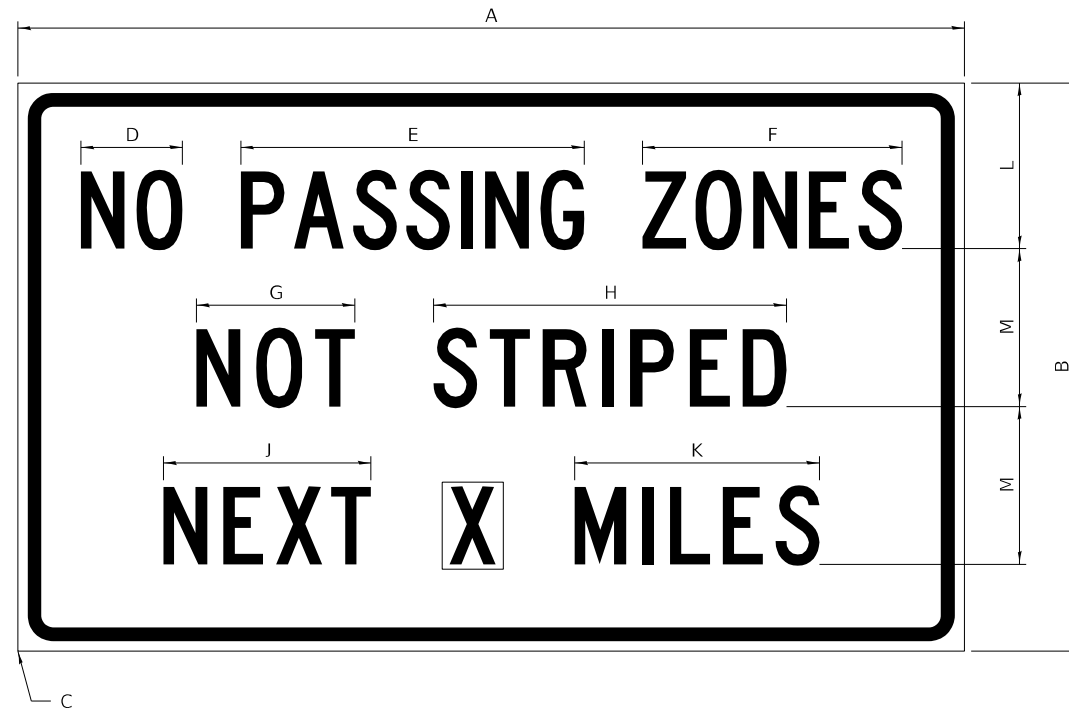
R 3067 OR EQUIVALENT
APPROXIMATE WEIGHT - 510 LBS.

FILE NAME: 64529-51-FR-020.dwg
PLOT DATE: 11/1/2024

REVISED - 6-27-14	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
REVISED - 10-13-11				316	101(V-BR & R-2)BDR	LEE	38	29	
REVISED -				CONTRACT NO. 64529					
REVISED -				SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



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

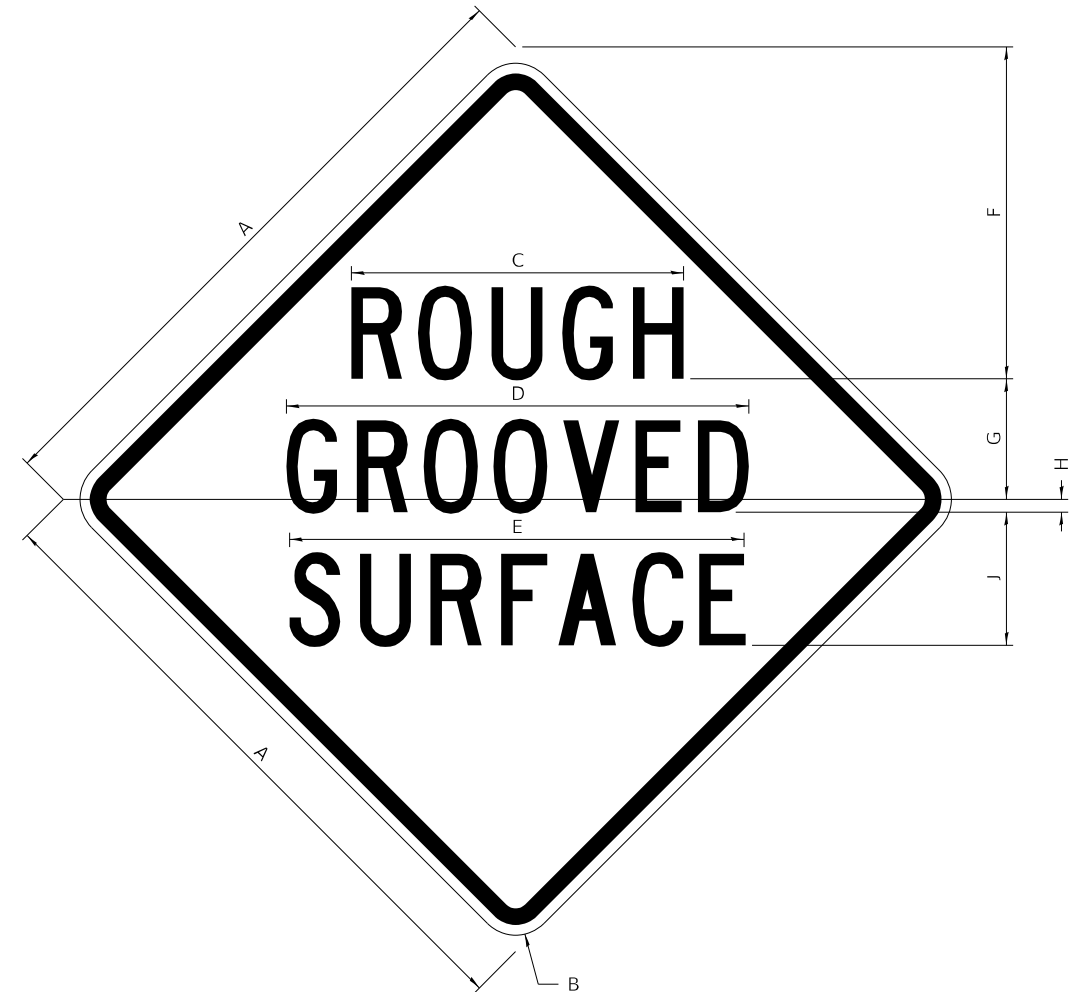
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

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

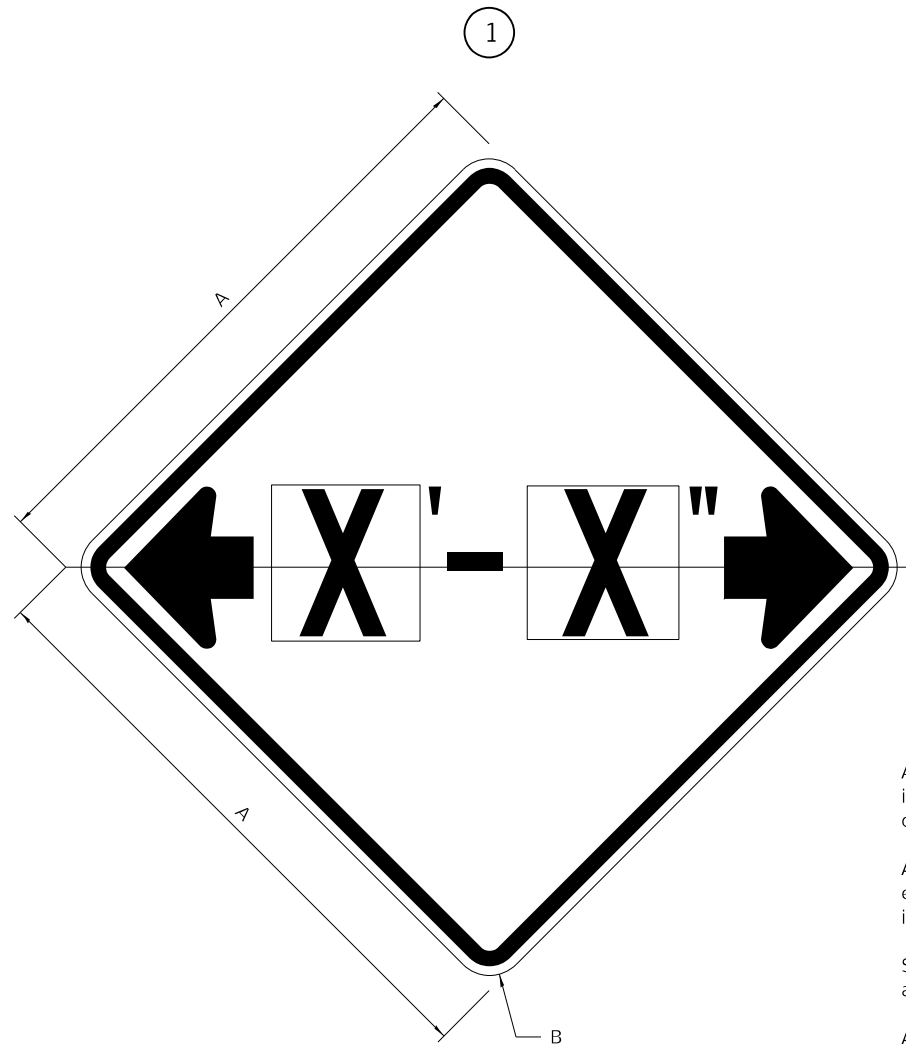
SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

FILE NAME: 64529-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -					316	101(V-BR & R-2)BDR	LEE	38	30
	PLOT DATE = 1/21/2024	CHECKED -	REVISED -					CONTRACT NO. 64529				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: N.T.S.	SHEET 1 OF 4 SHEETS	STA.	TO STA.					

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



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

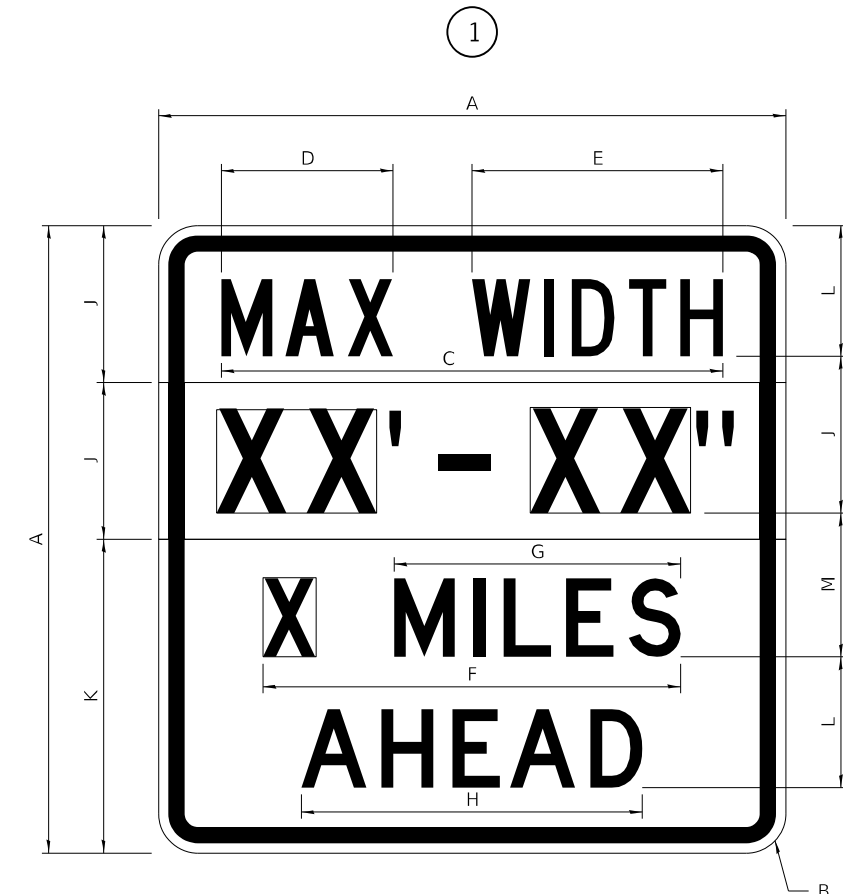
SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

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

ILLINOIS STANDARD W12-I103



COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE 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

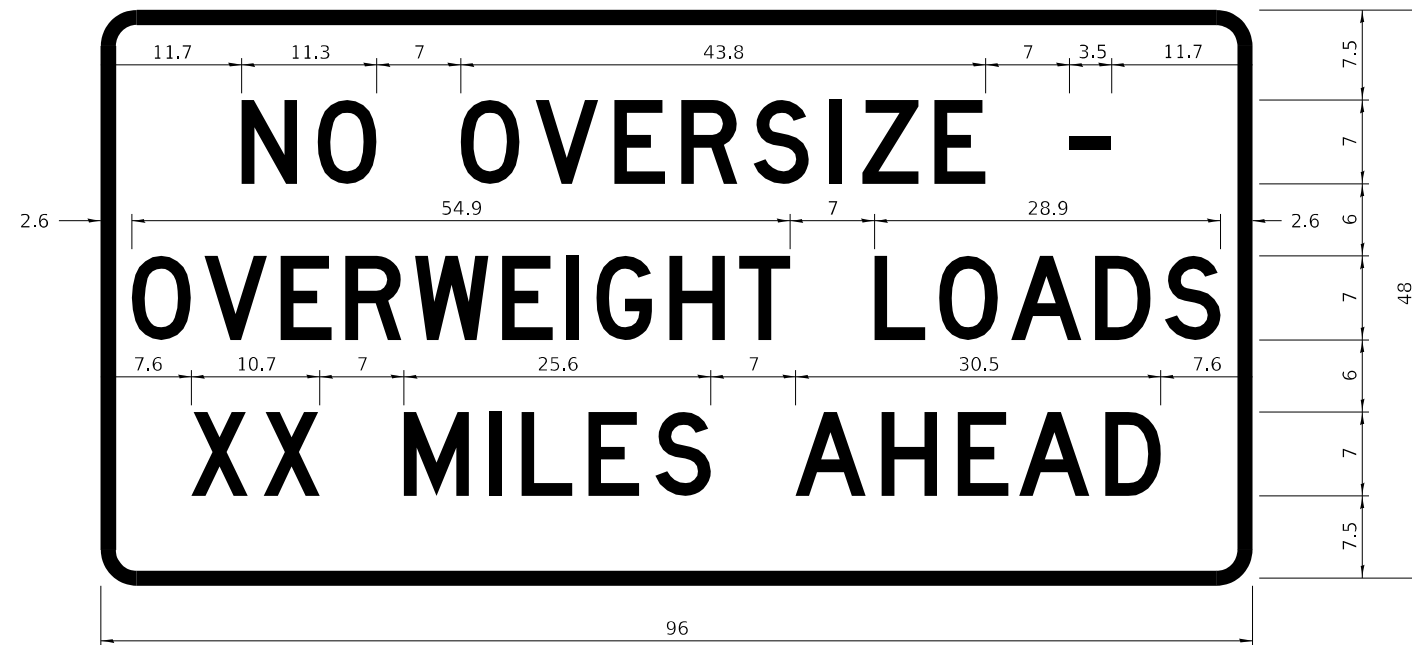
XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

FILE NAME: 64529-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE. 316	SECTION 101(V-BR & R-2)BDR	COUNTY LEE	TOTAL SHEETS 38	SHEET NO. 31
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		SCALE: N.T.S.	SHEET 2 OF 4 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 64529		
	PLOT DATE = 1/21/2024	DATE -	REVISED -									

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.

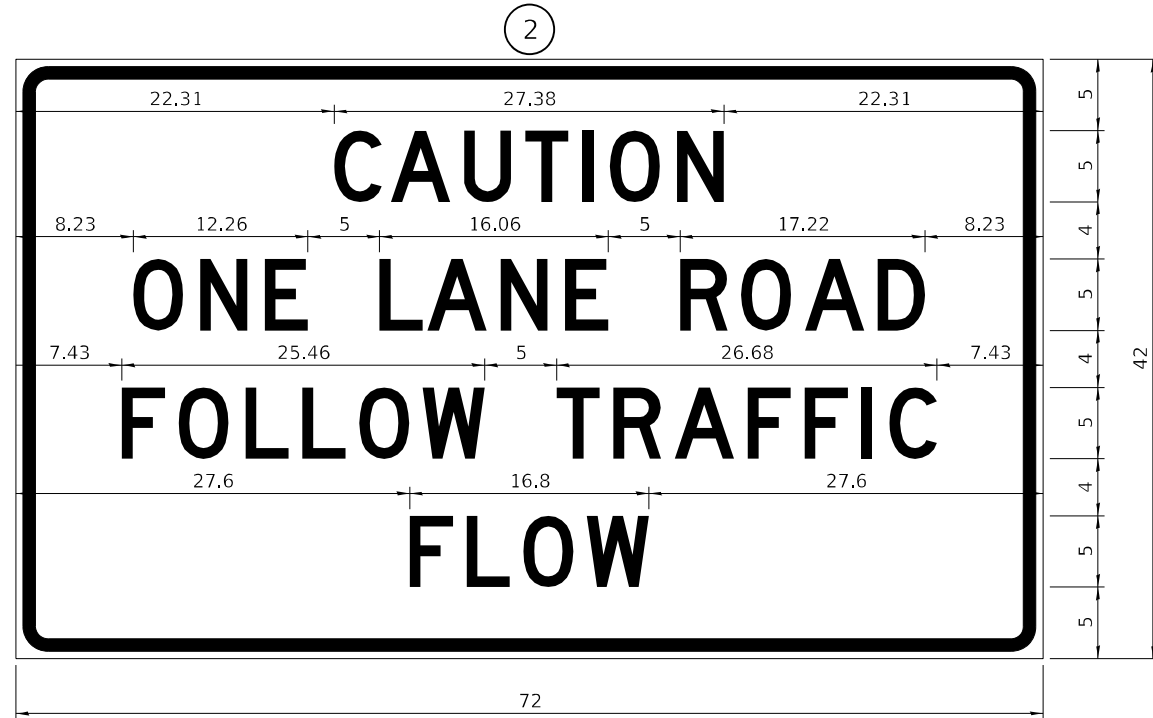
Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME: 64529-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -		SCALE: N.T.S.	SHEET 3	OF 4 SHEETS	STA.	TO STA.	101(V-BR & R-2)BDR	LEE	38
	PLOT DATE = 1/21/2024	CHECKED -	REVISED -					CONTRACT NO. 64529		ILLINOIS FED. AID PROJECT		

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS



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

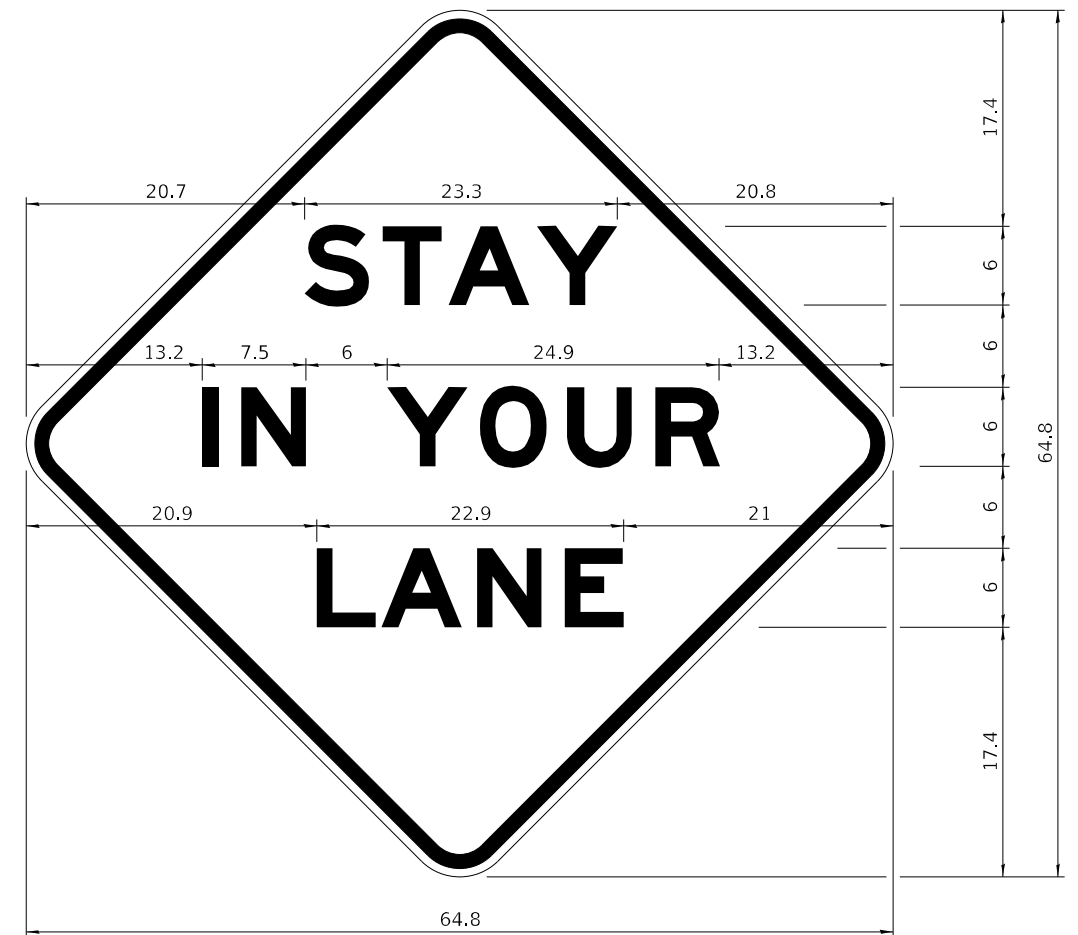
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

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

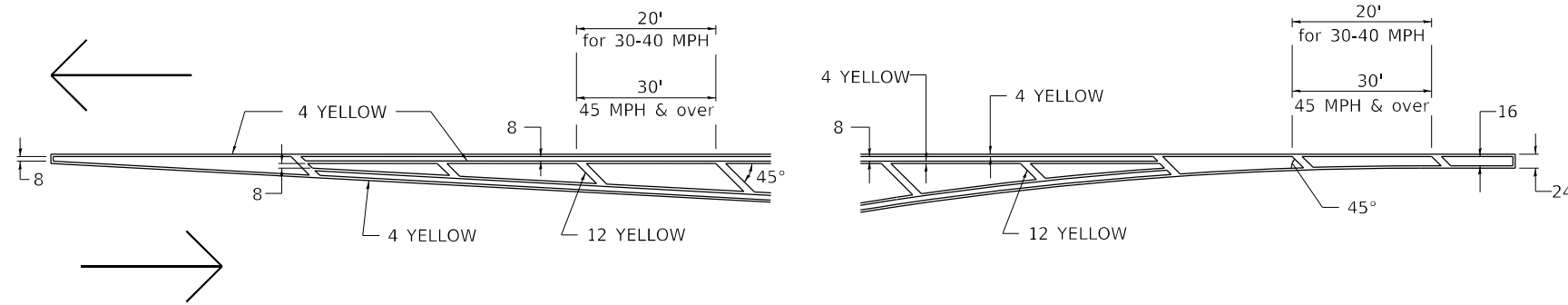
L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

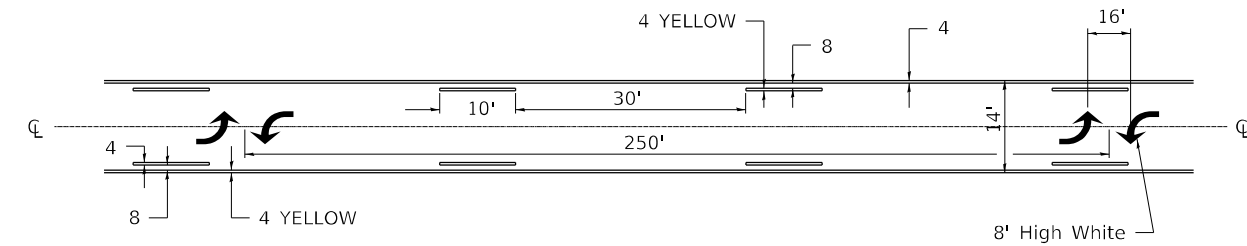
FILE NAME: 64529-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE. 316	SECTION 101(V-BR & R-2)BDR	COUNTY LEE	TOTAL SHEETS 38	SHEET NO. 33
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		SCALE: N.T.S.	SHEET 4 OF 4 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 64529			
	PLOT DATE = 1/21/2024	DATE -	REVISED -		WORK ZONE SIGN DETAILS SHEET 4 OF 4 34.1						

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

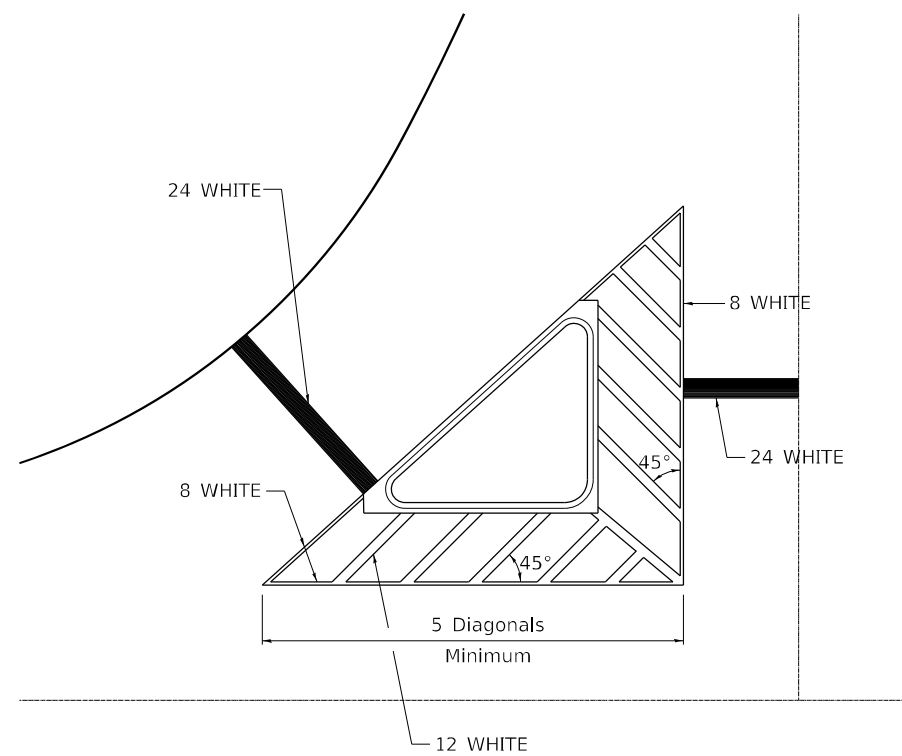


MEDIAN PAVEMENT MARKING



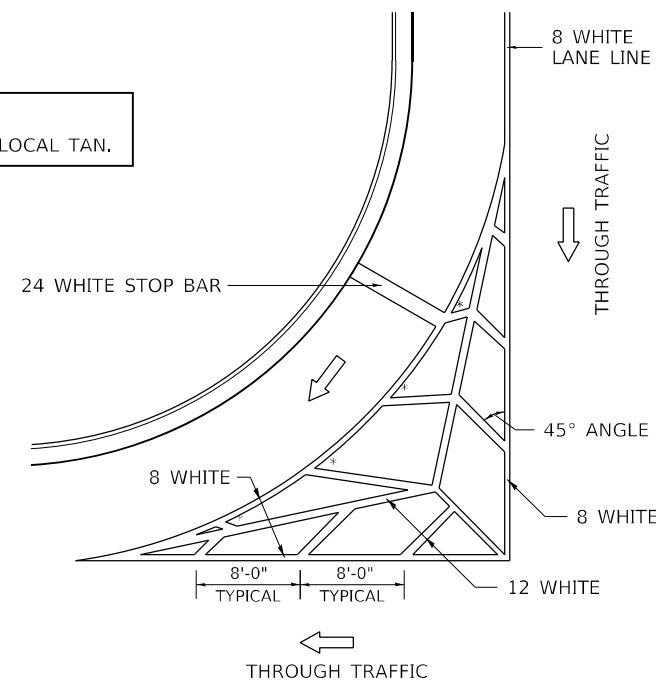
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



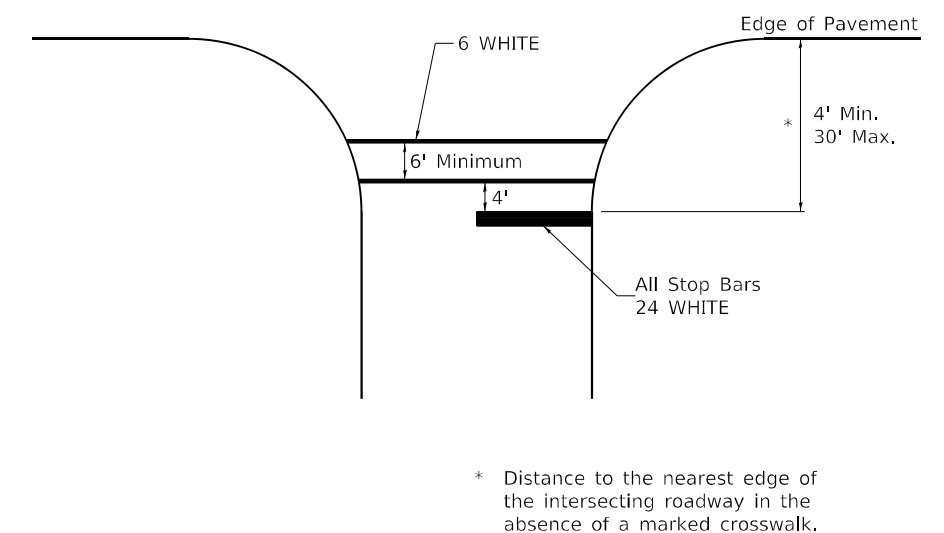
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

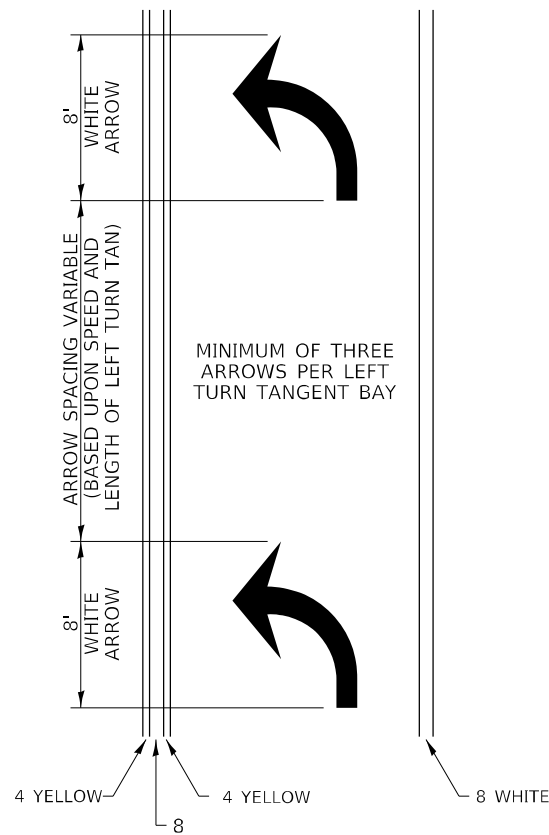


* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME: 64529-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - 3-05-12		SCALE: N.T.S.	SHEET 1 OF 3 SHEETS	STA. TO STA.	316	101(V-BR & R-2)BDR	LEE	38	34
PLOT DATE = 1/21/2024	CHECKED -	DATE -	REVISED -				CONTRACT NO. 64529					
							ILLINOIS FED. AID PROJECT					

TYPICAL PAVEMENT MARKINGS

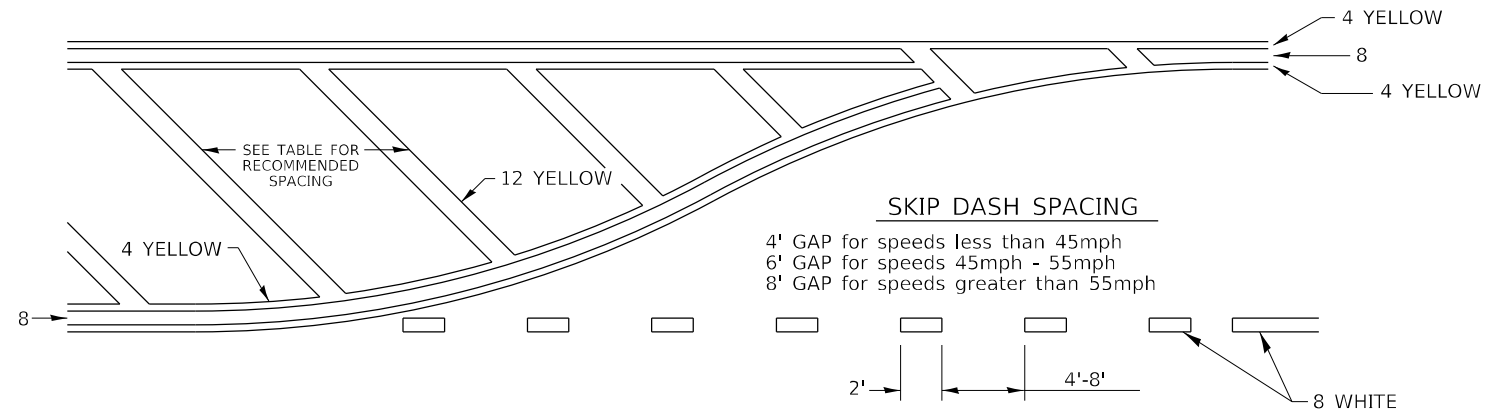
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

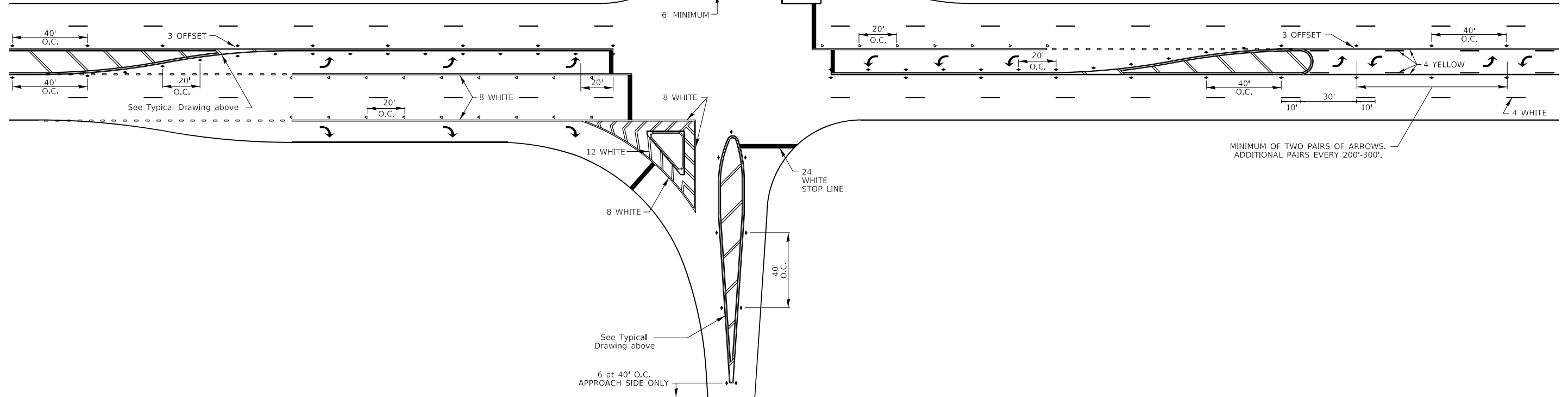
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

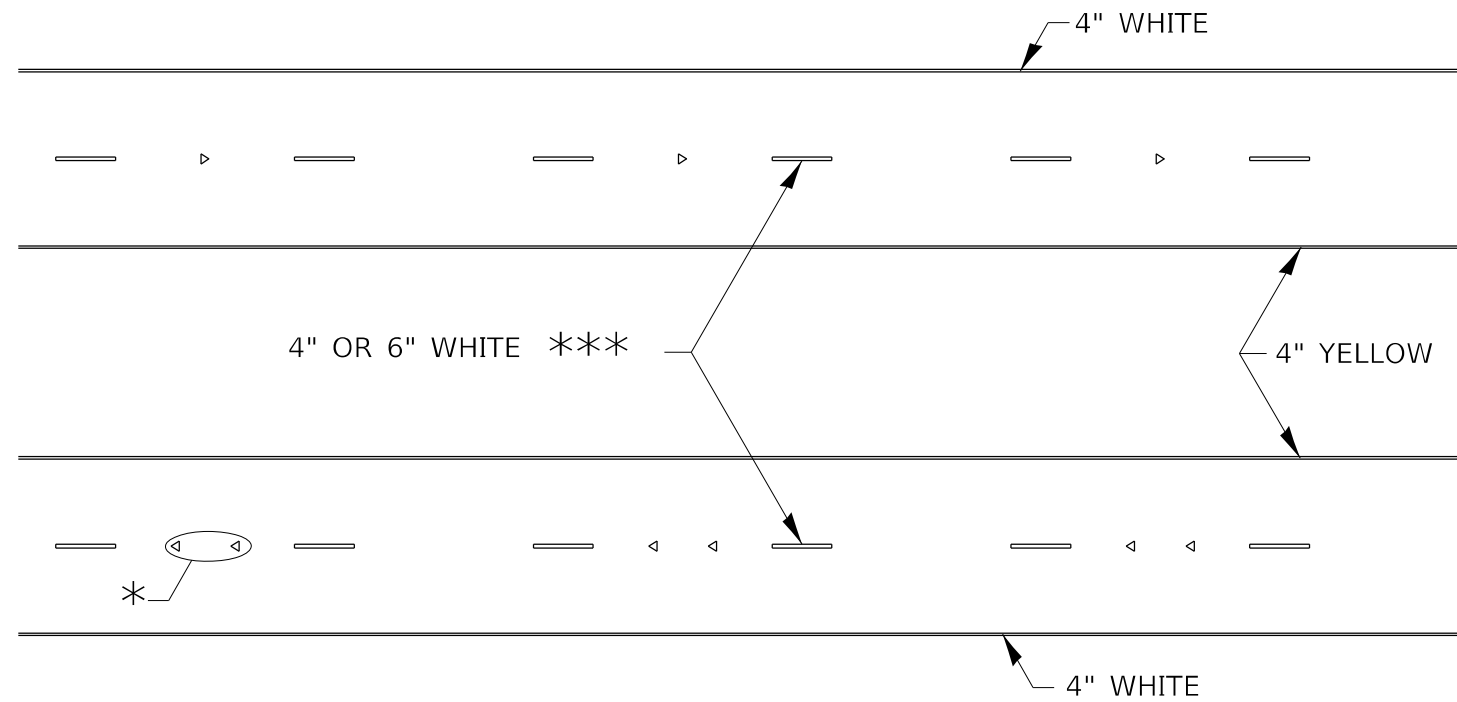
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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.



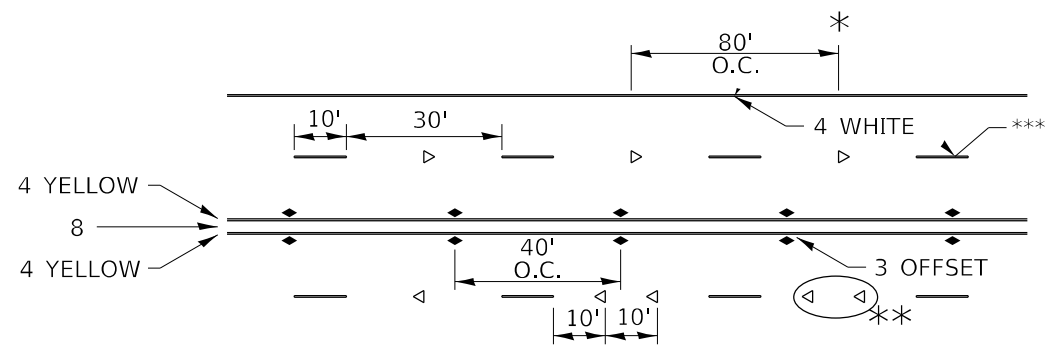
FILE NAME: 64529-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - 3-05-12					316	101(V-BR & R-2)BDR	LEE	38	35
	PLOT DATE = 1/21/2024	CHECKED -	REVISED -		SCALE: N.T.S.	SHEET 2 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 64529				
								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.

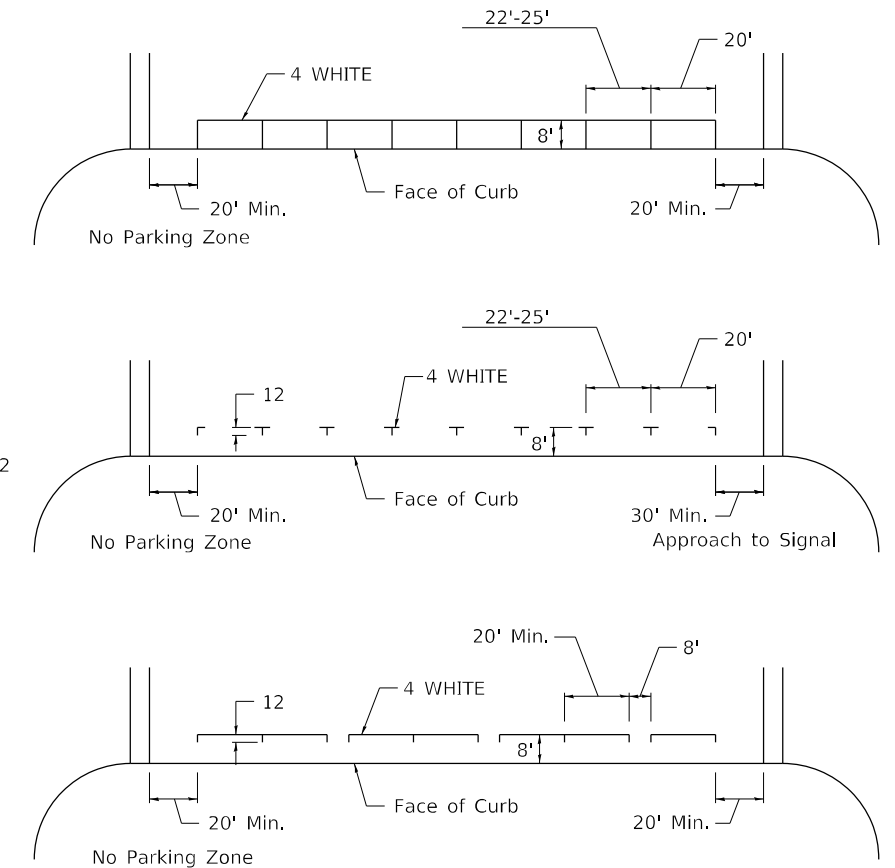
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

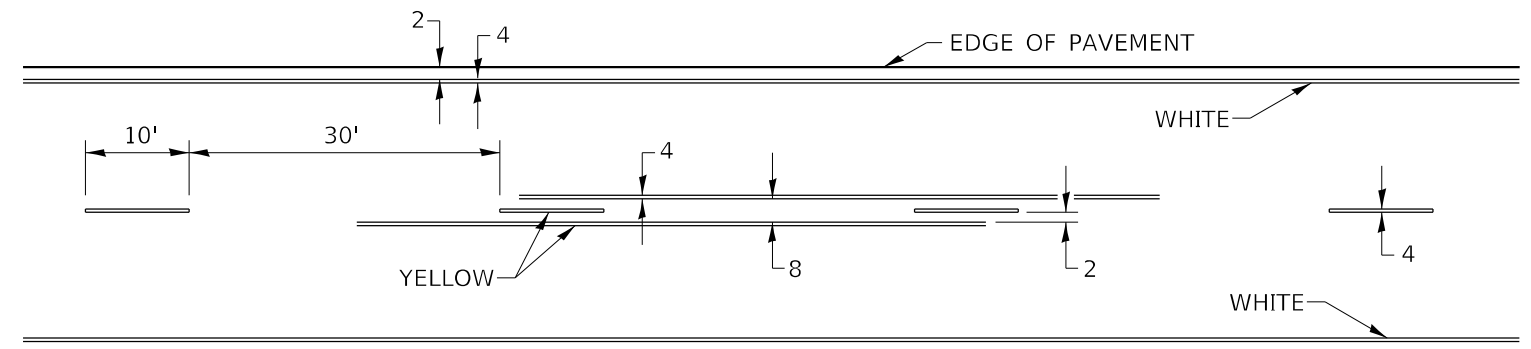
MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



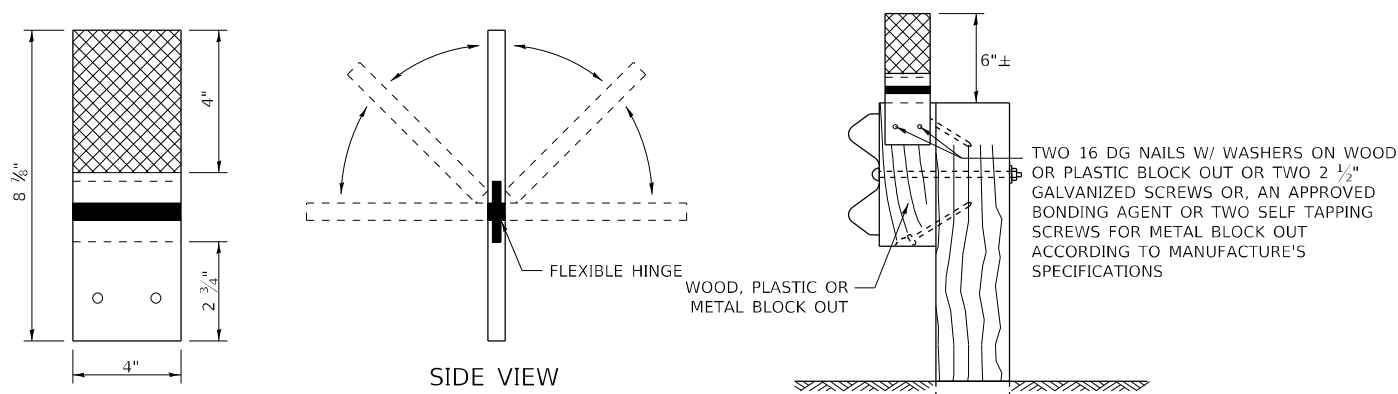
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

FILE NAME: 64529-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - 8-27-13					316	101(V-BR & R-2)BDR	LEE	38	36
	PLOT DATE = 1/21/2024	CHECKED -	REVISED - 11-28-12		SCALE: N.T.S.	SHEET 3	OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 64529		
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

GUARDRAIL AND BARRIER WALL REFLECTORS, TYPE C (SPECIAL)

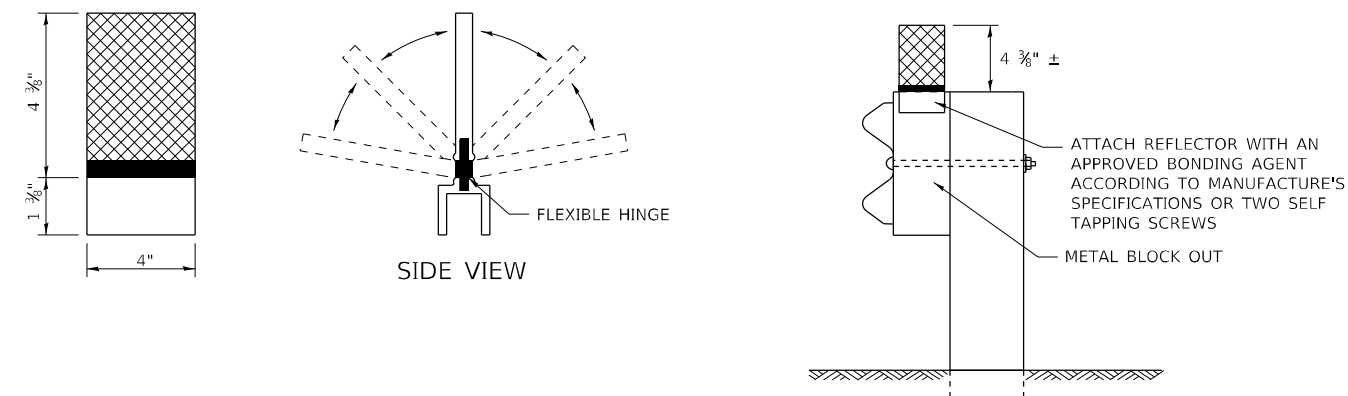


MOUNTED ON A WOOD OR PASTIC GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO WOOD OR PLASTIC BLOCK OUTS.

REFLECTORS MOUNTED ON WOODEN OR PLASTIC BLOCK OUT SHALL BE MOUNTED USING TWO 16 DG NAILS AND TWO 3/16" WASHERS OR TWO 2 1/2" GALVANIZED SCREWS WITH WASHERS.

REFLECTORS MOUNTED ON WOOD OR PLASTIC GUARDRAIL BLOCK OUT



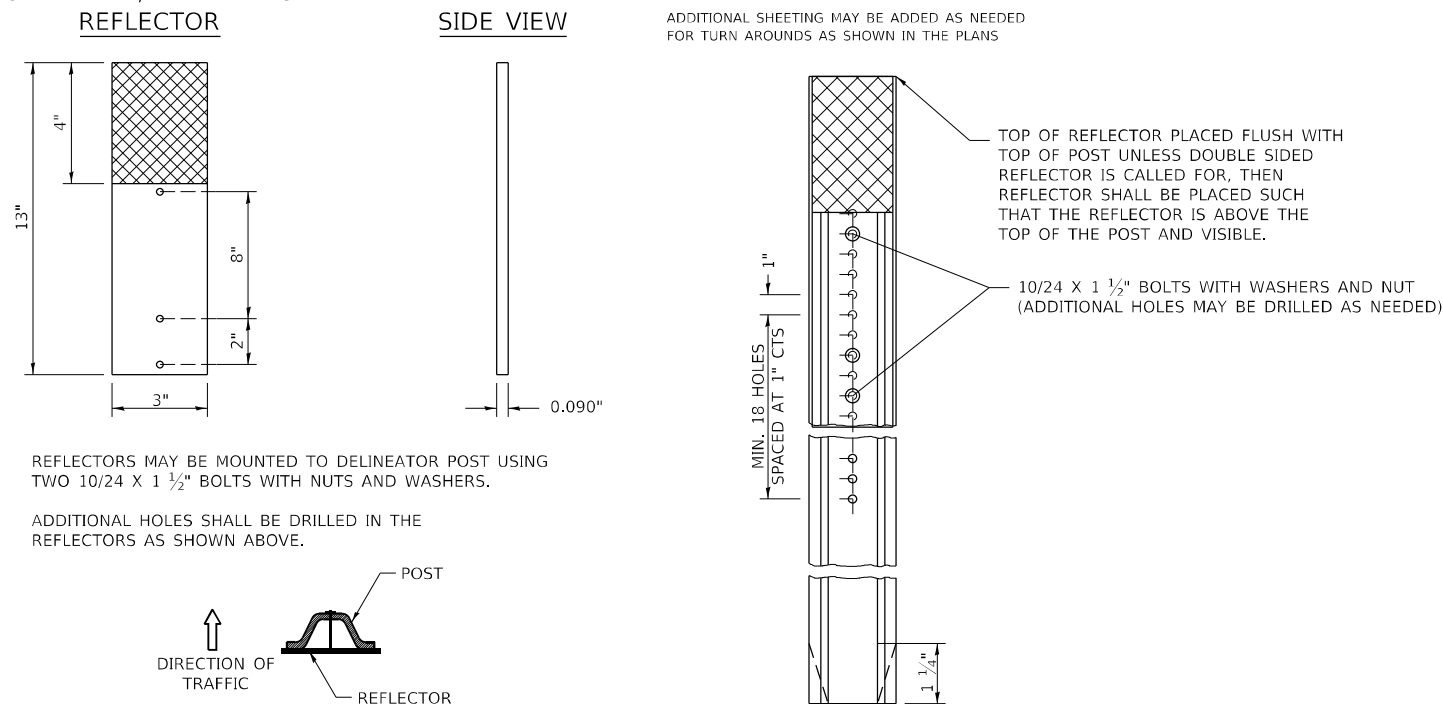
MOUNTED ON A METAL GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO METAL BLOCK OUT.

REFLECTORS MOUNTED ON METAL BLOCK OUT SHALL BE MOUNTED USING AN APPROVED BONDING AGENT PER THE MANUFACTURE'S SPECIFICATIONS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

REFLECTORS MOUNTED ON METAL GUARDRAIL BLOCK OUT

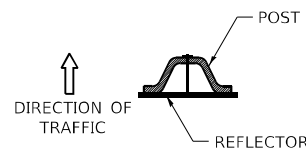
STRAIGHT GUARDRAIL / DELINEATOR REFLECTOR



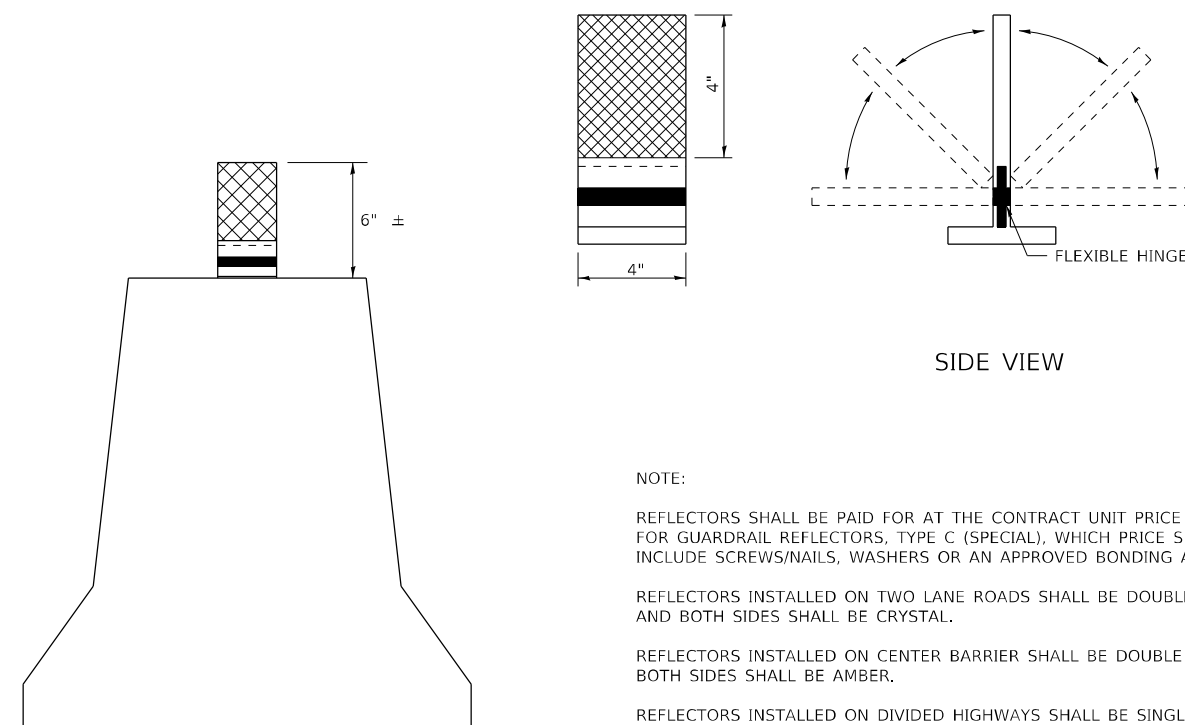
MOUNTED ON A DELINEATOR POST

REFLECTORS MAY BE MOUNTED TO DELINEATOR POST USING TWO 10/24 X 1 1/2" BOLTS WITH NUTS AND WASHERS.

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 ATTACHECD AS SHOWN ABOVE.



REFLECTORS MOUNTED ON BARRIER WALL

NOTE:

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS/NAILS, 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 SHALL BE SINGLE SIDED CRYSTAL.

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

FILE NAME: 64529-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 4-27-23
		DRAWN -	REVISED - 6-21-21
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2024	DATE -	REVISED -

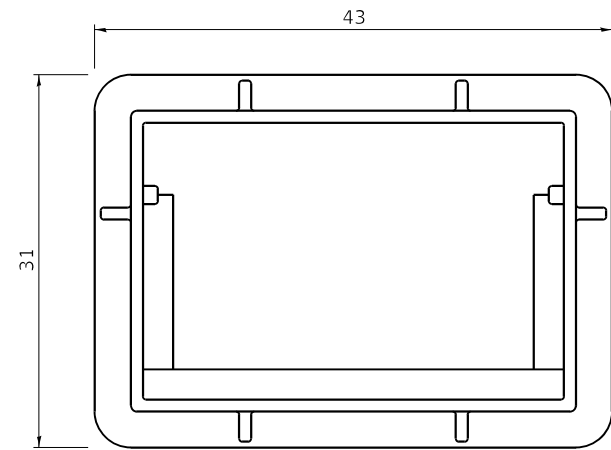
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

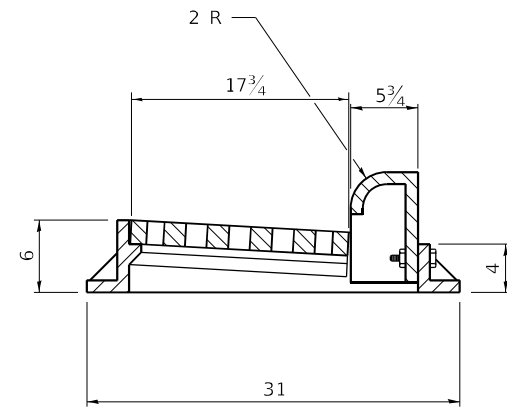
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	101(V-BR & R-2)BDR	LEE	38	37
CONTRACT NO. 64529				
ILLINOIS FED. AID PROJECT				

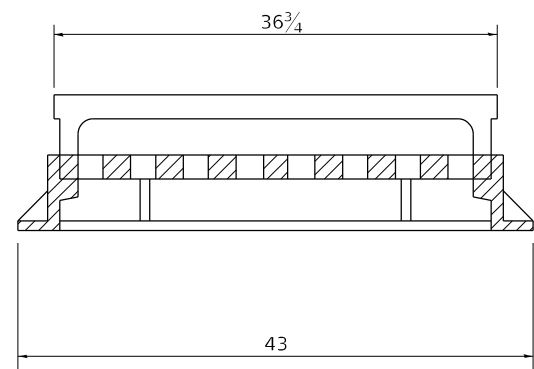
FRAME AND GRATE FOR INLETS, SPECIAL



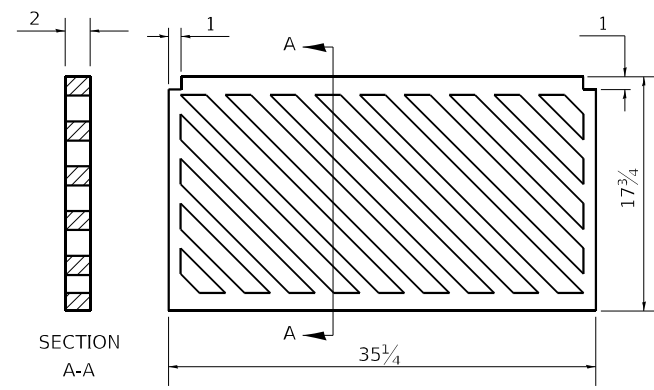
PLAN OF FRAME
WITHOUT GRATE AND CURB BOX



TRANSVERSE SECTION



LONGITUDINAL SECTION

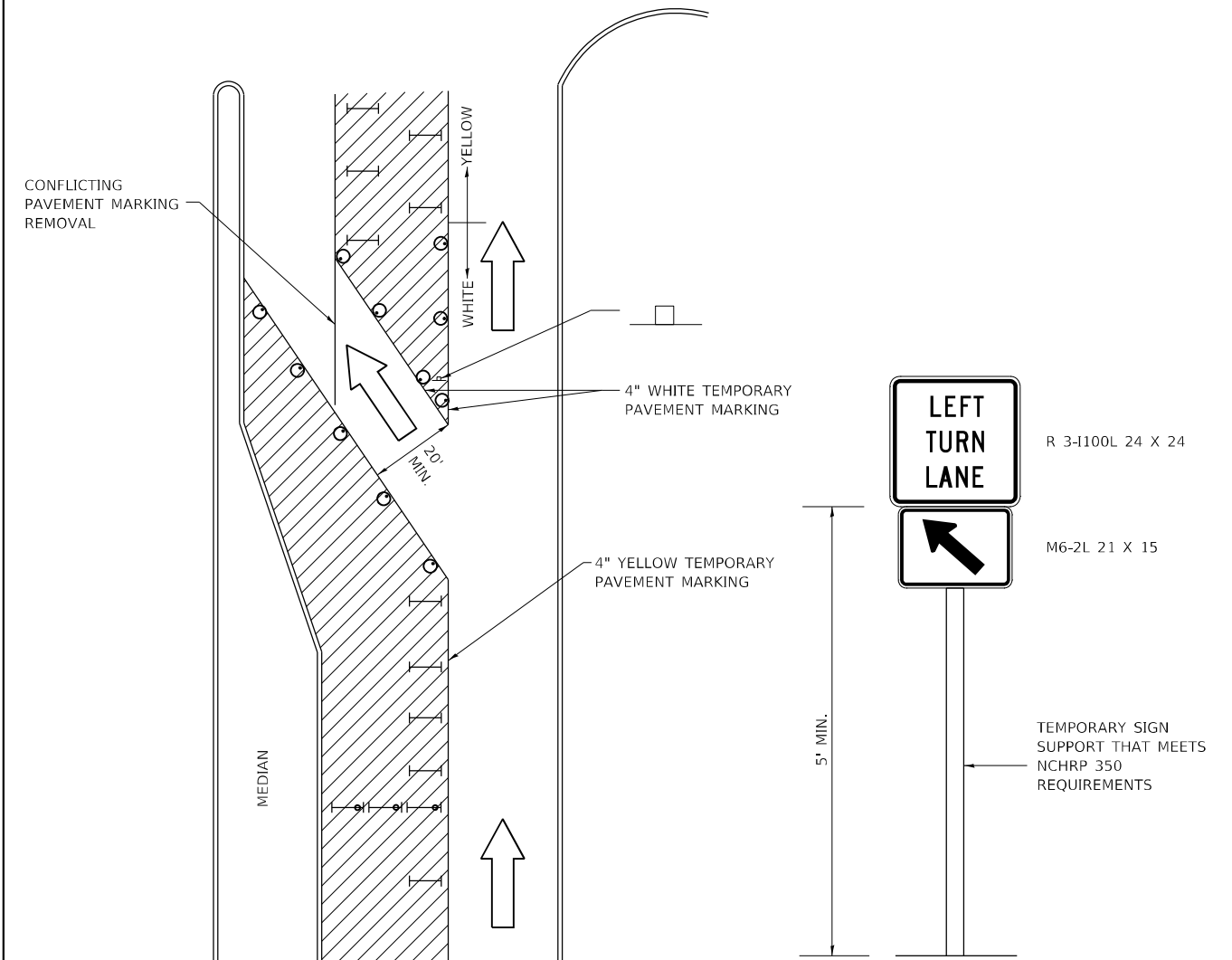


PLAN OF GRATE

R 3067 OR EQUIVALENT
APPROXIMATE WEIGHT - 510 LBS.

ALL DIMENSIONS ARE IN INCHES UNLESS
OTHERWISE NOTED.

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
- DRUM OR BARRICADE WITH STEADY BURN LIGHT
- SIGN (SEE DETAIL)
- TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

GENERAL NOTES

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 IN HEIGHT.

STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.

TEMPORARY PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 X 24 AND M6-2R 21 X 15 SHALL BE USED.

THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

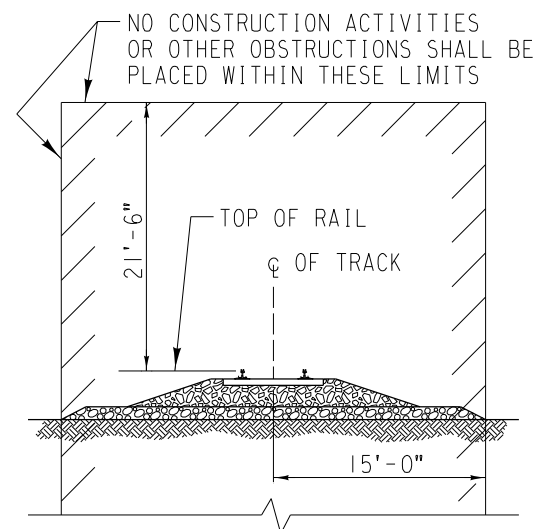
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FILE NAME: 64529-615-02024.dgn
PLOT DATE: 3/14/2024

FRAME AND GRATE FOR INLETS, SPECIAL 13.2c



REVISED - 10-14-11	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -				316	101(V-BR & R-2)BDR	LEE	38	38
REVISED -				CONTRACT NO. 64529				
REVISED -				ILLINOIS FED. AID PROJECT				
SCALE: N.T.S.				SHEET 1	OF 1	SHEETS	STA.	TO STA.



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE
(NORMAL TO RAILROAD)

36

DESIGN BY: RAF	CHECKED BY: AMH
APPROVED:	
<i>Rick Friesen</i>	
UPRR - SENIOR MANAGER STRUCTURES DESIGN	
<i>Austin M. Hurst</i>	
BNSF - ASSISTANT DIRECTOR STRUCTURES DESIGN	

	
BRIDGE STANDARDS	
GRADE SEPARATION GUIDELINES	
TEMPORARY CLEARANCE ENVELOPE	
FILE OWNER: UPRR	DATE: 1/05/16
PLAN NO.: 711000	SHEET: 39

PLOTTED: 5/12/2016 9:14:09 AM
ADDED SHEET 7/9/24