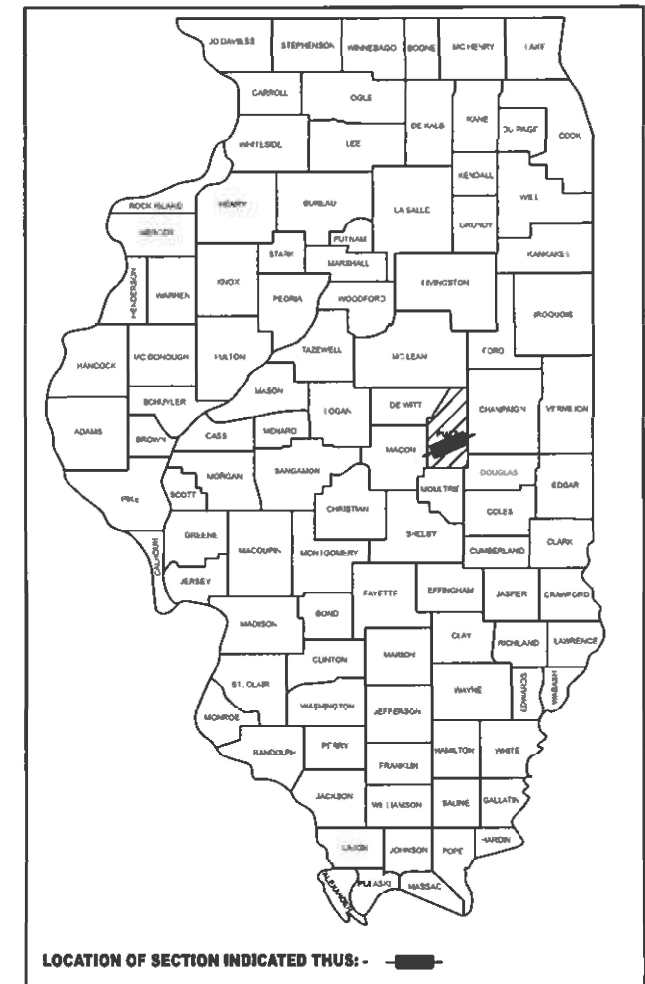


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D5 CM PATCHING 2025-1	PIATT	II	I
		ILLINOIS	CONTRACT NO. 70H29	

D-95-004-25



PROPOSED HIGHWAY PLANS

**FAI ROUTE 72 (I 72)
SECTION D5 CM PATCHING 2025-1
PATCHING
PIATT COUNTY**

**FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4-5**

TRAFFIC DATA

FAI RTE. 72 / (I 72)	LEG "A"	LEG "B"	LEG "C"	LEG "D"
2024 ADT =	11,400	10,900	13,900	13,400
PV % =	74.10%	71.80%	79.00%	76.30%
SU % =	4.80%	3.90%	3.40%	4.70%
MU % =	21.10%	24.30%	17.60%	19.00%

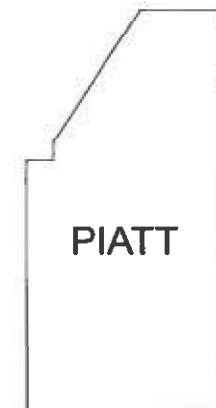
TRAFFIC DATA LOCATIONS

LEG "A" = Macon County line to Bridge St in Monticello
LEG "B" = Bridge St to IL 105 in Monticello
LEG "C" = IL 105 in Monticello to White Heath
LEG "D" = White Heath to IL 10.

FUNCTIONAL CLASSIFICATION

INTERSTATE

**C-95-014-25
MACON/PIATT CO LINE TO ILL 10 E OF WHITE HEATH**



SEE SHEET 3 FOR LOCATION MAP



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**

**TOWNSHIPS
SANGAMON, MONTICELLO, AND WILLOW BRANCH**

**PROJECT ENGINEER: RYAN T. CARROLL
DESIGNER: TYLER PIERSON
PHONE: 217-465-4181
CONTRACT NO. 70H29**

GROSS LENGTH = 84,818.26 FT. = 16.064 MILE
NET LENGTH = 84,818.26 FT. = 16.064 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3/14 20 24
Kensil A. Barnett, Sr.
REGIONAL ENGINEER

May 10, 2024 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER
2	INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS
3	LOCATION MAP
4 to 5	SUMMARY OF QUANTITIES
6 to 8	FAI 72 TYPICAL CROSS-SECTIONS
9	SCHEDULE OF QUANTITIES
10 to 11	CLASS A PATCHING (SPECIAL) DETAIL

GENERAL NOTES

G.N.-100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

LIST OF STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
442101-09	CLASS B PATCHES
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701901-09	TRAFFIC CONTROL DEVICES
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS

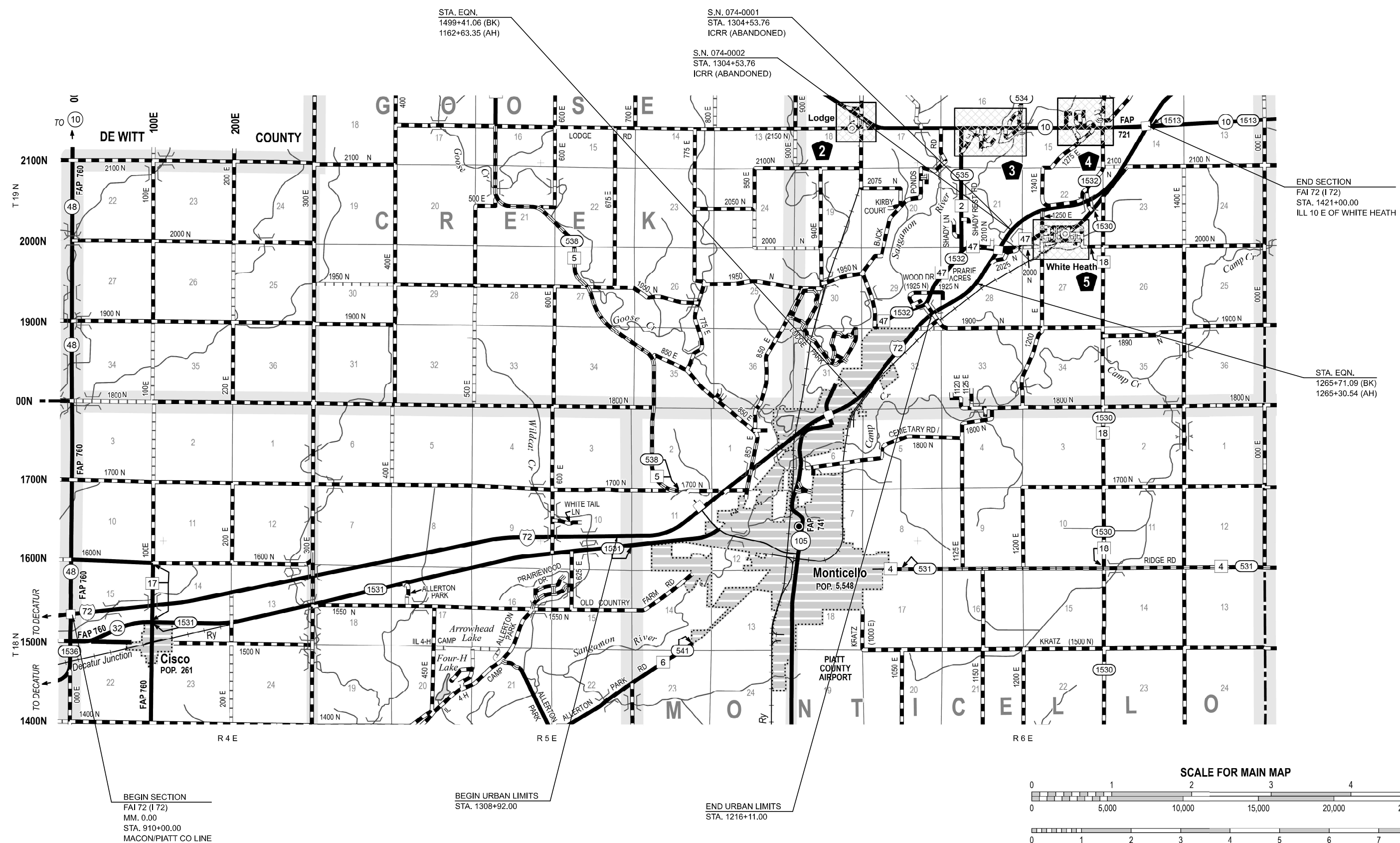
THERE ARE NO COMMITMENTS FOR THIS CONTRACT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF STANDARDS,
GENERAL NOTES, & COMMITMENTS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D5 CM PATCHING 2025-1	PIATT	11	2
CONTRACT NO. 70H29				
			ILLINOIS	FED. AID PROJECT

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



MODEL: Location Map (Sheet)
 FILE NAME: c:\pwworking\pierson\0070684\0570129-sh1-Location Map.dgn

BEGIN SECTION
 FAI 72 (I 72)
 MM. 0.00
 STA. 910+00.00
 MACON/PIATT CO LINE

BEGIN URBAN LIMITS
 STA. 1308+92.00

END URBAN LIMITS
 STA. 1216+11.00

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DRAWN -	REVISED -	
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PLOT DATE = 2/7/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

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

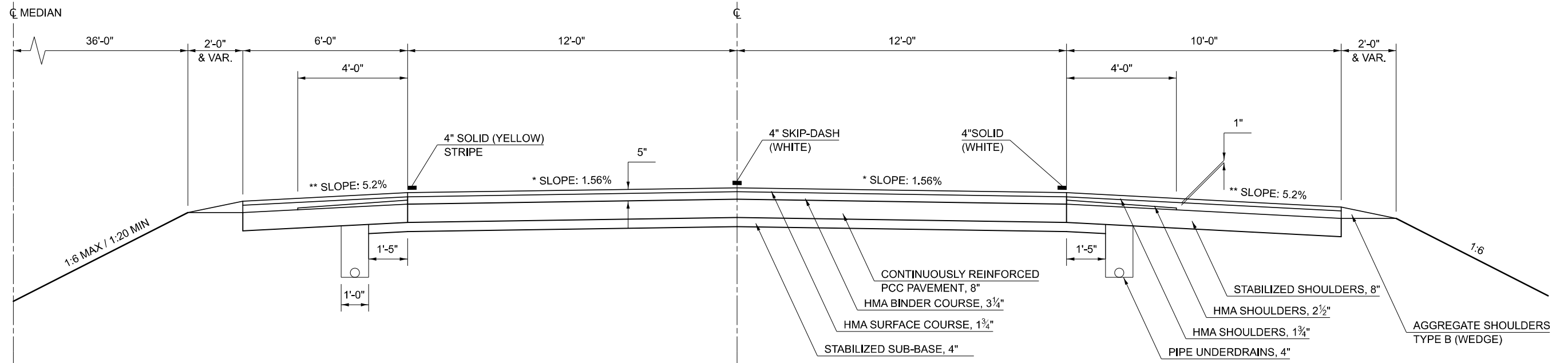
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D5 CM PATCHING 2025-1	PIATT	II	3
CONTRACT NO. 70H29				
ILLINOIS FED. AID PROJECT				

* SLOPE VARIES FOR SUPERELEVATION IN CURVES
 ** SLOPE VARIES IN SUPERELEVATION WITH MAXIMUM OF 0.08 FT/FT DIFFERENCE

EASTBOUND F.A.I. 72 SHOWN, TYPICAL FOR WESTBOUND F.A.I. 72

EXISTING TYPICAL CROSS SECTION 1

F.A.I. 72
 STATION 910+00.00 TO STATION 965+00.00 ②

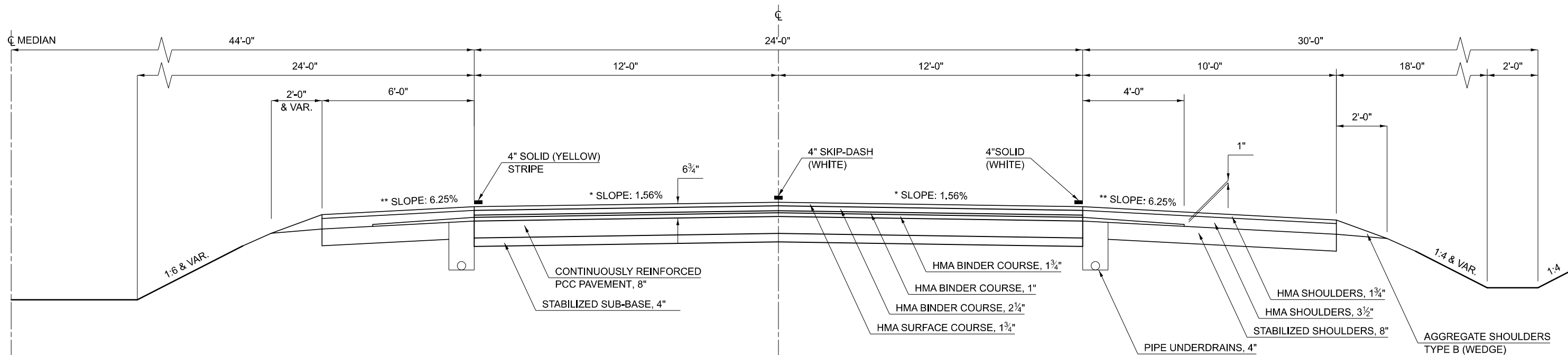


* SLOPE VARIES FOR SUPERELEVATION IN CURVES
 ** SLOPE VARIES IN SUPERELEVATION WITH MAXIMUM OF 0.08 FT/FT DIFFERENCE

EASTBOUND F.A.I. 72 SHOWN, TYPICAL FOR WESTBOUND F.A.I. 72

EXISTING TYPICAL CROSS SECTION 2

F.A.I. 72
 STATION 965+00.00 ① TO STATION 1210+00.00 ③



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PLOT DATE = 2/5/2024	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS-SECTIONS

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D5 CM PATCHING 2025-1	PIATT	II	6
CONTRACT NO. 70H29				
ILLINOIS FED. AID PROJECT				

WESTBOUND BRIDGE OMISSIONS

STATION	TO	STATION
1279+60.80		1280+67.05
1422+80.50		1429+57.42
1438+22.94		1440+46.02

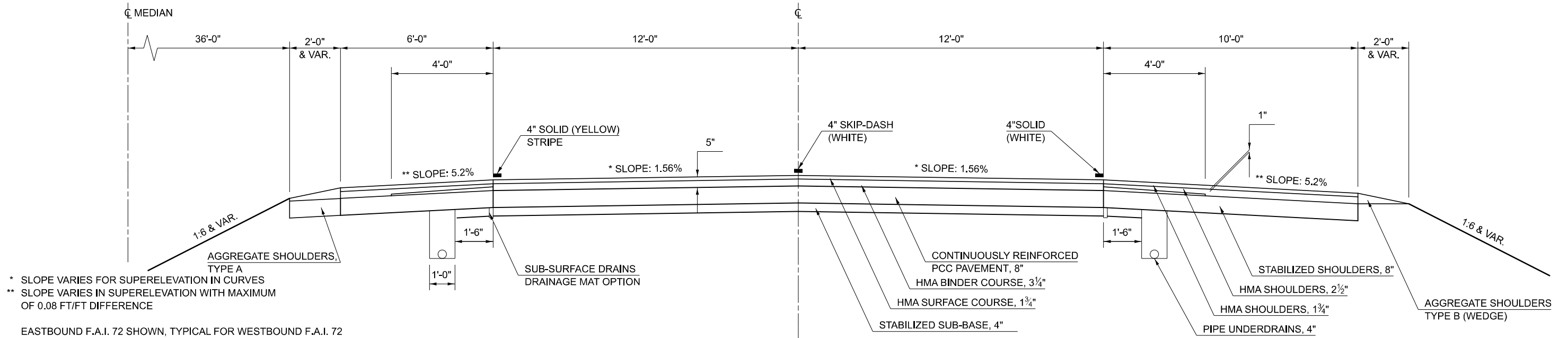
EXISTING TYPICAL CROSS SECTION 3

3

EASTBOUND BRIDGE OMISSIONS

STATION	TO	STATION
1279+32.96		1280+39.13
1421+86.52		1428+63.44
1436+95.20		1439+18.28

STATION	F.A.I. 72	TO	STATION
② 1210+00.00			1464+20.00 ④



* SLOPE VARIES FOR SUPERELEVATION IN CURVES
 ** SLOPE VARIES IN SUPERELEVATION WITH MAXIMUM OF 0.08 FT/FT DIFFERENCE

EASTBOUND F.A.I. 72 SHOWN, TYPICAL FOR WESTBOUND F.A.I. 72

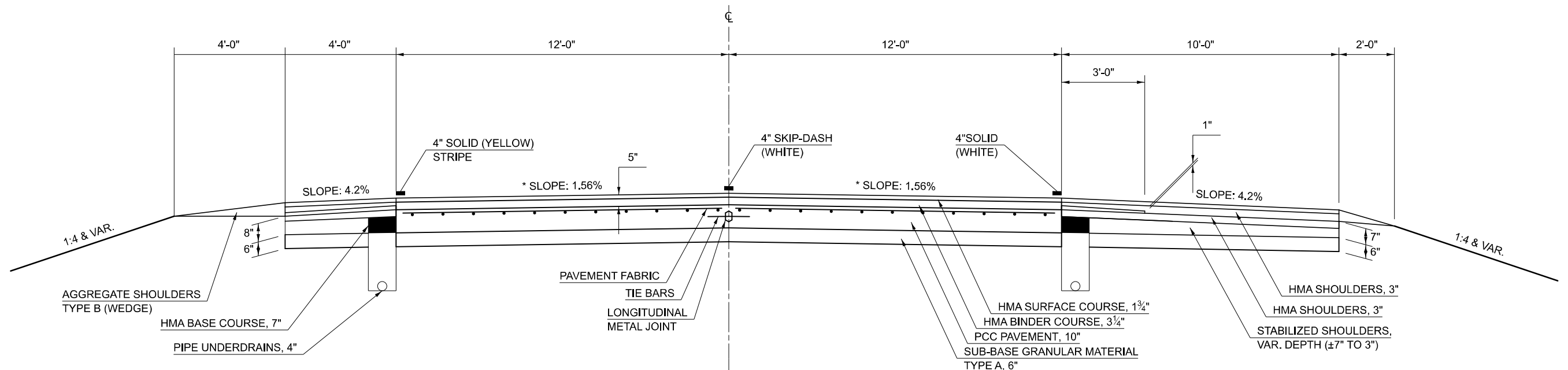
PIPE UNDERDRAINS BEGIN AT STATION 1492+50

EASTBOUND F.A.I. 72 SHOWN, TYPICAL FOR WESTBOUND F.A.I. 72

EXISTING TYPICAL CROSS SECTION 4

4

STATION	F.A.I. 72	TO	STATION
③ 1464+20.00			1489+02.09 WB ⑤ 1493+22.04 EB ⑤



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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS-SECTIONS

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

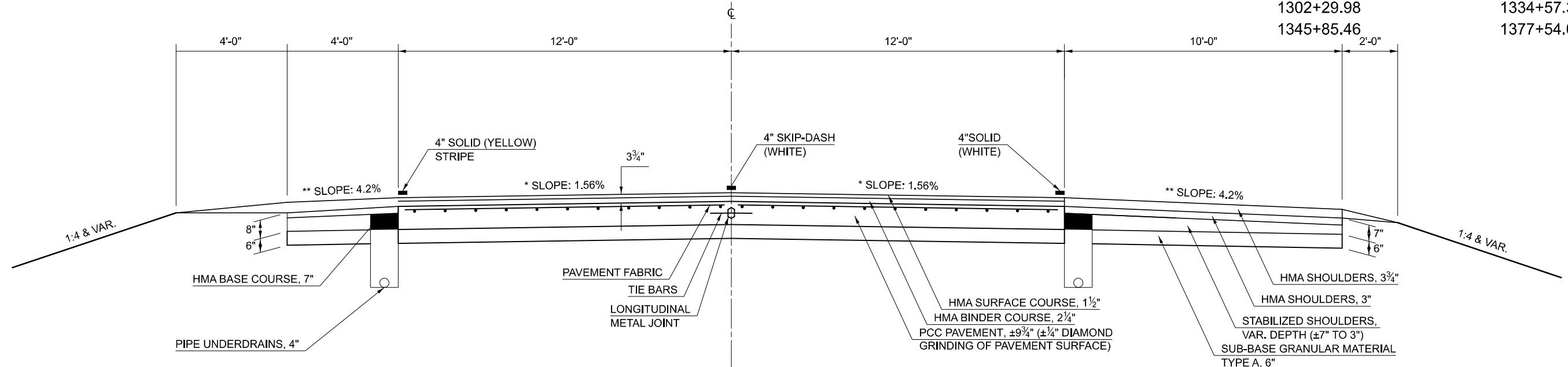
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72	D5 CM PATCHING 2025-1	PIATT	II	7
CONTRACT NO. 70H29				
ILLINOIS FED. AID PROJECT				

WESTBOUND BRIDGE OMISSIONS
 STATION TO STATION
 1300+45.65 1302+54.29

EXISTING TYPICAL CROSS SECTION 5

EASTBOUND BRIDGE OMISSIONS
 STATION TO STATION
 1300+54.10 1302+62.80
 PAVEMENT IS SUPERELEVATED 2.0%
 STATION TO STATION
 1211+82.32 1230+38.22
 1245+12.67 1265+11.09
 1296+69.50 1300+78.30
 1302+29.98 1334+57.31
 1345+85.46 1377+54.00

F.A.I. 72
 TO
 STATION
 ④ 1489+02.09 WB
 ④ 1493+22.04 EB
 1162+63.36 (AH)
 1265+30.54 (AH)
 STATION
 1499+41.06 (BK) STA. EQN.
 1499+41.06 (BK) STA. EQN.
 1265+71.10 (BK) STA. EQN.
 1377+89.00



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PLOT DATE = 2/7/2024	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS-SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D5 CM PATCHING 2025-1	PIATT	11	8
CONTRACT NO. 70H29				
ILLINOIS FED. AID PROJECT				

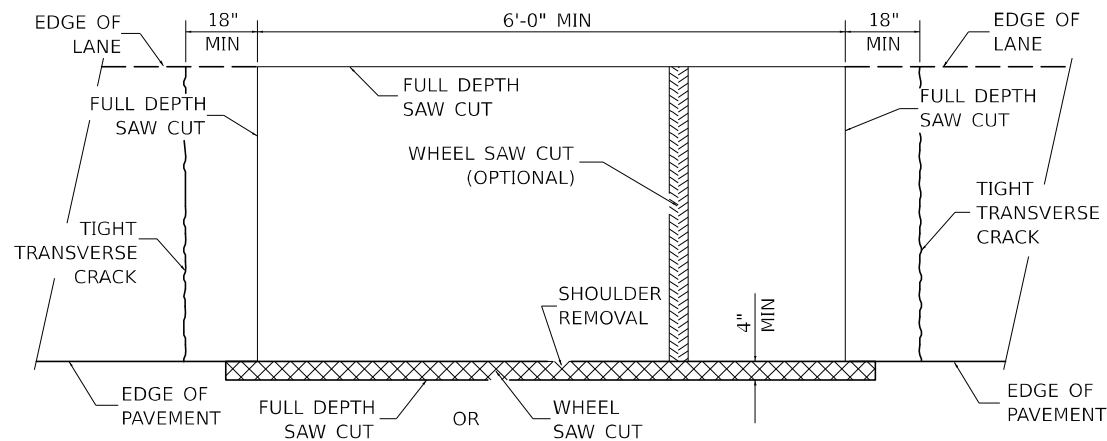
SCHEDULES OF QUANTITIES

CLASS B PATCHING SCHEDULE														
TYPICAL	STA / LOCATION	LANE	DIRECTION	LENGTH FT	WIDTH FT	THICKNESS IN	AREA SQ FT	AREA SQ YD	44200050	44201035	44201037	44201299	44213200	44213204
									RURAL	RURAL	RURAL	RURAL	RURAL	RURAL
									WELDED WIRE REINF	CLASS B PATCHES, TYPE III, 15 INCH,	CLASS B PATCHES, TYPE IV, 15 INCH,	DOWEL BARS 1 1/2"	SAW CUTS	TIE BARS 3/4"
									SQ YD	SQ YD	SQ YD	EACH	FOOT	EACH
5	S.N. 074-0002	DL	WB - DEP	112	12	14	1,344.00	149.33	149.33		149.33	90.00	260.00	37.00
5	S.N. 074-0002	PL	WB - DEP	115	12	14	1,380.00	153.33	153.33		153.33	90.00	266.00	38.00
5	S.N. 074-0002	DL	WB - APPR	110	12	14	1,320.00	146.67	146.67		146.67	90.00	256.00	37.00
5	S.N. 074-0002	PL	WB - APPR	107	12	14	1,284.00	142.67	142.67		142.67	90.00	250.00	36.00
5	S.N. 074-0001	PL	EB - APPR	131	12	14	1,572.00	174.67	174.67		174.67	100.00	298.00	44.00
5	S.N. 074-0001	DL	EB - APPR	133	12	14	1,596.00	177.33	177.33		177.33	100.00	302.00	44.00
5	S.N. 074-0001	PL	EB - DEP	12	12	14	144.00	16.00	16.00	16.00		20.00	60.00	
5	S.N. 074-0001	DL	EB - DEP	122	12	14	1,464.00	162.67	162.67		162.67	100.00	280.00	41.00
TOTALS =									1,122.67	16.00	1,106.67	680.00	1,972.00	277.00
ROUNDED TOTALS =									1,123.00	16.00	1,107.00	680.00	1,972.00	277.00

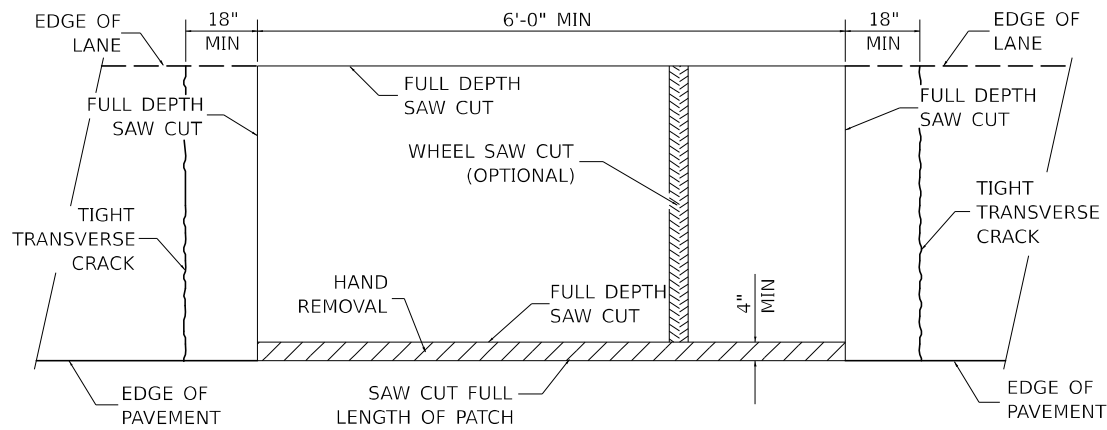
CLASS A PATCHING SPECIAL SCHEDULE																
TYPICAL	STA / LOCATION	RURAL URBAN	LANE	DIRECTION	LENGTH FT	WIDTH FT	THICKNESS IN	AREA SQ FT	AREA SQ YD	44213000	44213200	44213204	44213204	X4420583	X4420585	X4420630
										PATCH REINFORCEMENT	SAW CUTS	TIE BARS, 3/4" (TRANS.)	TIE BARS, 3/4" (LONG.)	CLASS A PATCHES, TYPE II, 13 INCH, SPECIAL	CLASS A PATCHES, TYPE III, 13 INCH, SPECIAL	CLASS A PATCHES, TYPE II, 15 INCH, SPECIAL
										SQ YD	FOOT	EACH	EACH	SQ YD	SQ YD	SQ YD
1	964+86.00	RURAL	DL	EB	25	6	13	150.00	16.67	16.67	62.00	10.00	8.00		16.67	
2	965+01.00	RURAL	DL	WB	18	6	15	108.00	12.00	12.00	48.00	10.00				12.00
3	1349+02.00	URBAN	DL	EB	8	12	13	96.00	10.67	10.67	40.00	22.00	10.67			
3	1422+77.00	URBAN	DL	WB	15	6	13	90.00	10.00	10.00	42.00	10.00	10.00			
RURAL TOTALS =										28.67	110.00	20.00	8.00		16.67	12.00
ROUNDED RURAL TOTALS =										29.00	110.00	20.00	8.00		17.00	12.00
URBAN TOTALS =										20.67	82.00	32.00		20.67		
ROUNDED URBAN TOTALS =										21.00	82.00	32.00		21.00		
TOTALS =										50.00	192.00	52.00	8.00	21.00	17.00	12.00

RAISED REFLECTIVE PAVEMENT MARKINGS SCHEDULE							
TYPICAL	STA / LOCATION	LANE	DIRECTION	PATCH LENGTH FT	LOCATION	SPACING FT	78100100
							RURAL
							RAISED REFLECTIVE PAVEMENT MARKER
							EACH
5	S.N. 074-0002	PL	WB - DEP	115	CL	80	2.00
5	S.N. 074-0002	PL	WB - APPR	107	CL	80	2.00
5	S.N. 074-0001	DL	EB - APPR	133	CL	80	2.00
5	S.N. 074-0001	DL	EB - DEP	122	CL	80	2.00
TOTALS =							8.00
ROUNDED TOTALS =							8.00

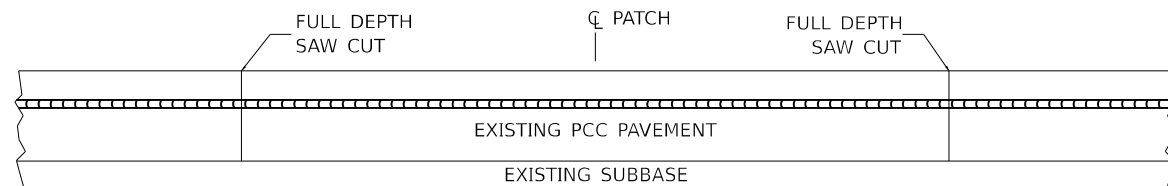
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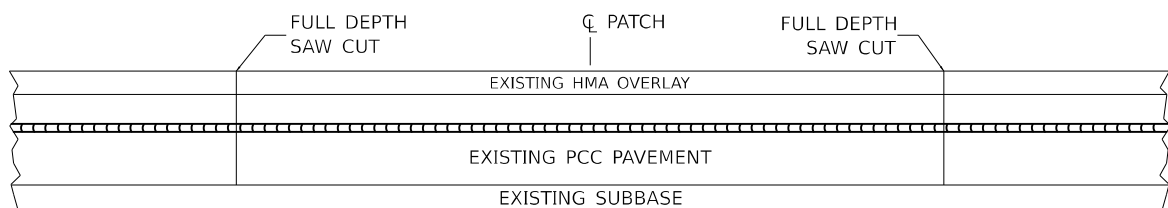
**PAVEMENT SAWING DETAIL
(HMA SHOULDER)**



**PAVEMENT SAWING DETAIL
(PCC SHOULDER)**

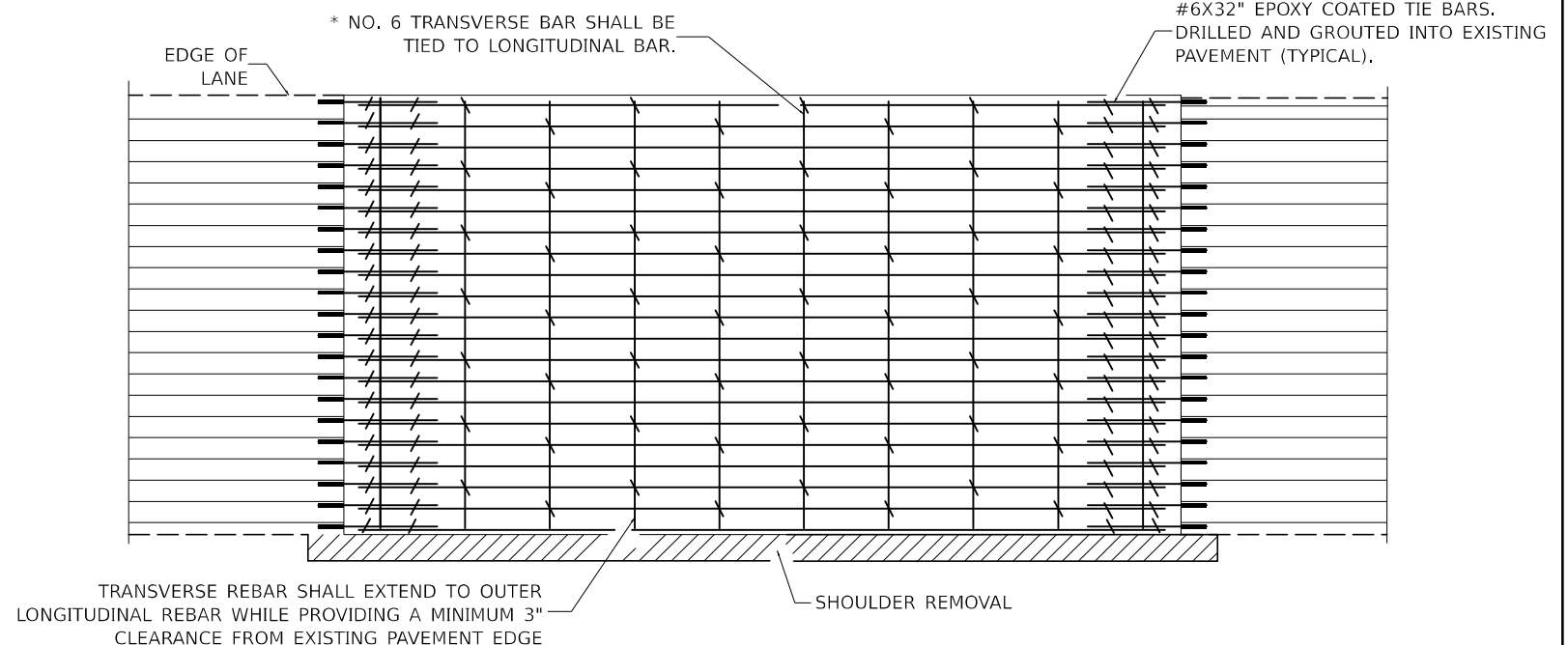


EXISTING PAVEMENT WITHOUT HMA SURFACE

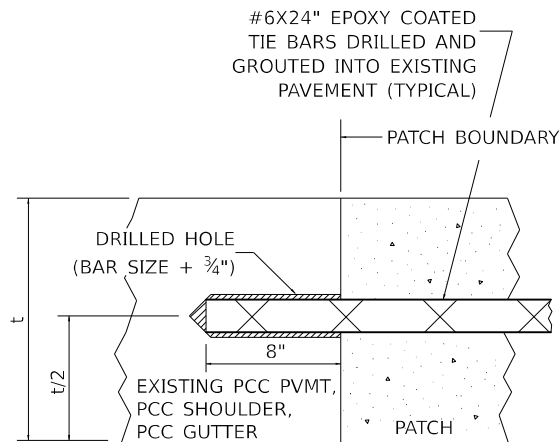


EXISTING PAVEMENT WITH HMA SURFACE

**PAVEMENT SAWING DETAIL FOR CLASS A PATCHING
(CRC PAVEMENT)**



PAVEMENT REINFORCEMENT DETAIL



LONGITUDINAL CONSTRUCTION JOINT

PATCHES MORE THAN 20' IN LENGTH SHALL BE TIED TO ADJACENT PAVEMENT, PCC SHOULDERS OR PCC CURB AND GUTTER WITH #6x24" EPOXY COATED TIE BARS AT 24" CENTERS.

NOTES:

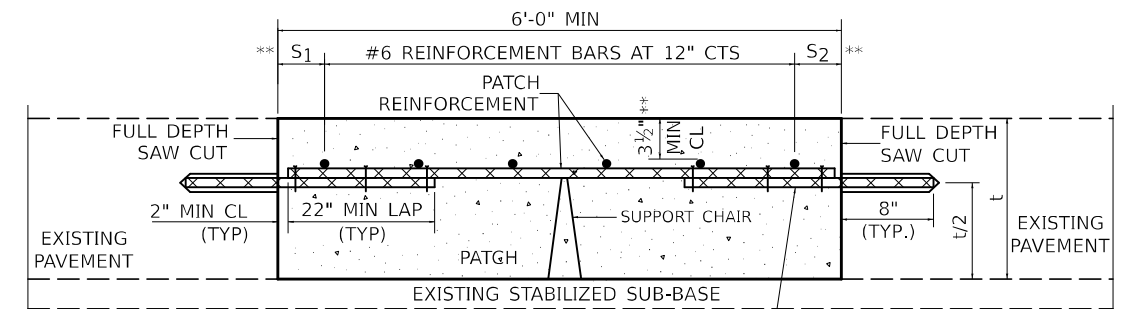
EXISTING LONGITUDINAL REINFORCEMENT SPACING; $\pm 6\frac{1}{2}$ ".

SPACING OF NEW LONGITUDINAL REINFORCEMENT AND NEW LONGITUDINAL TIE BARS SHALL MATCH SPACING OF EXISTING REINFORCEMENT AND SHALL BE TIED TOGETHER WITH A MINIMUM OF TWO TIES PER BAR.

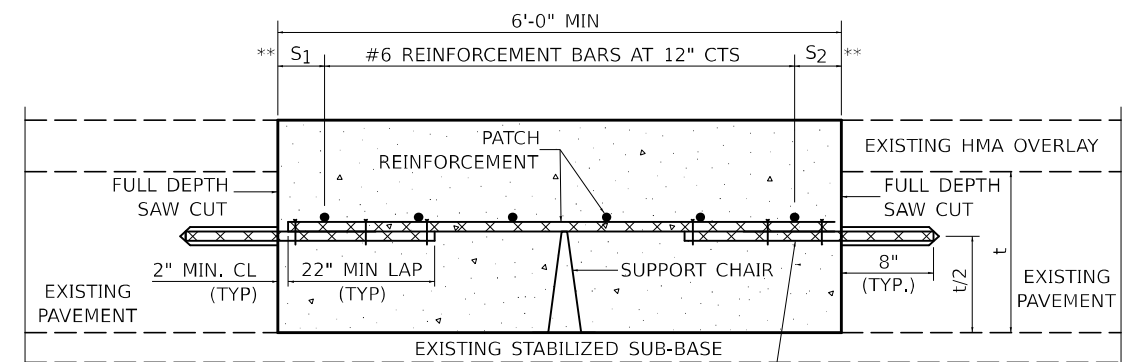
SUPPORT CHAIRS SHALL BE REQUIRED WHENEVER PATCH LENGTH EXCEEDS 6'-0"

* EVERY THIRD INTERSECTION MUST BE TIED. WHEN THE MINIMUM CLEARANCE CANNOT BE OBTAINED WITH THE TRANSVERSE REBAR ON TOP, THEN THE TRANSVERSE REBAR SHALL BE TIED TO THE BOTTOM OF THE LONGITUDINAL REBAR.

** VARIABLES WHERE S_1 AND S_2 ARE $2\frac{1}{2}$ " MIN. AND 12" MAX.



WITHOUT HMA OVERLAY



WITH HMA OVERLAY

**PATCHING DETAIL FOR CLASS A PATCHING
(CRC PAVEMENT)**

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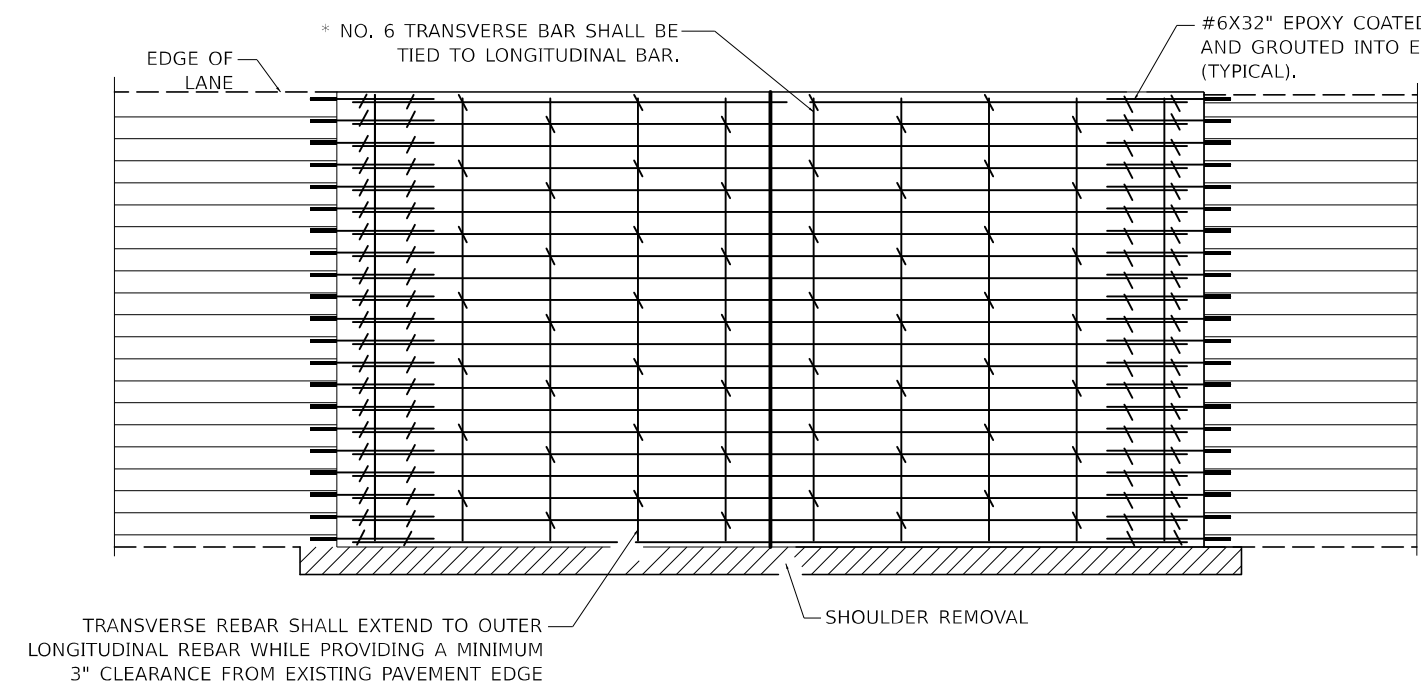
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

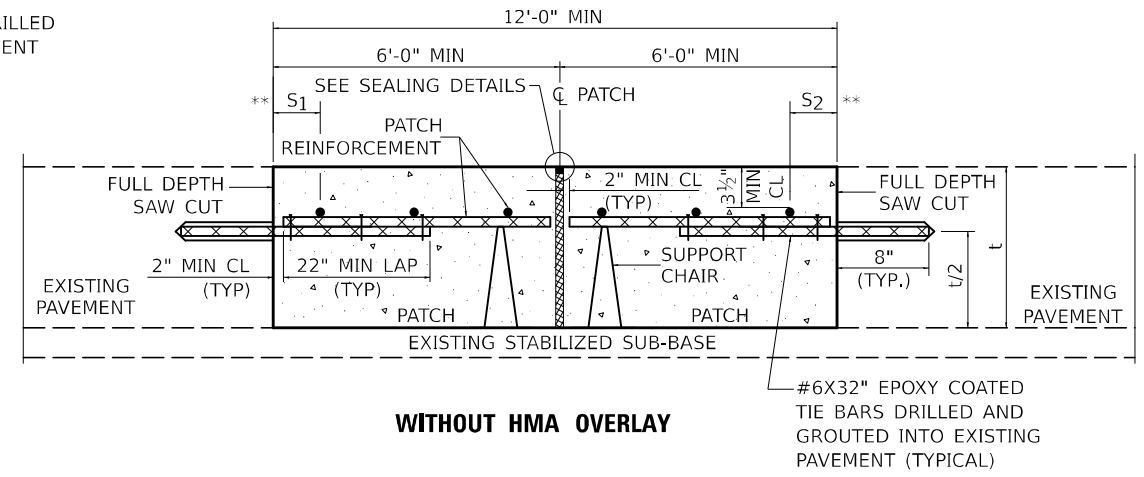
PATCHING CLASS A SPECIAL DETAIL

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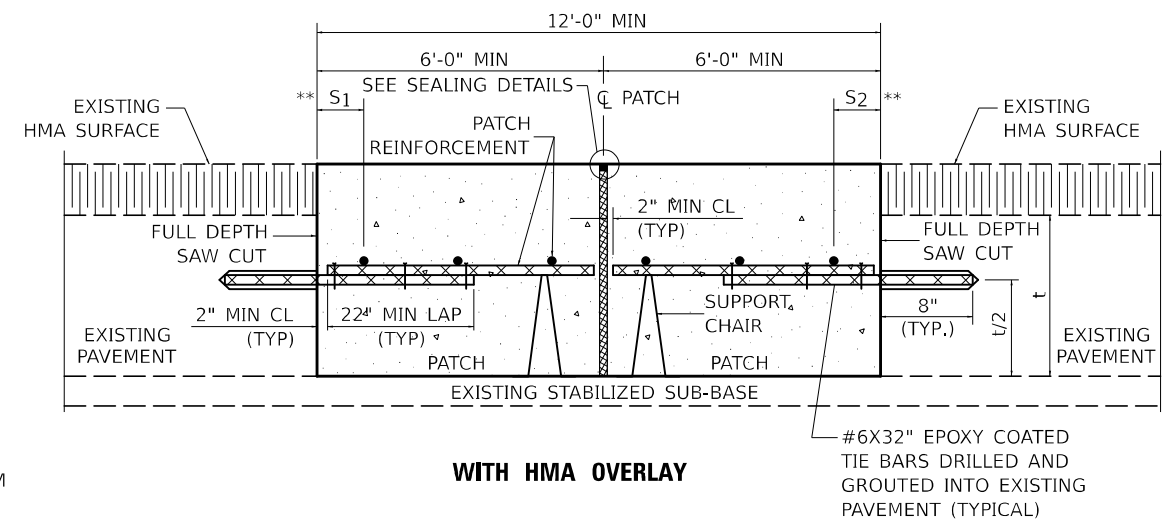
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72	D5 CM PATCHING 2025-1	PIATT	II	10
CONTRACT NO. 70H29				
ILLINOIS FED. AID PROJECT				



PAVEMENT REINFORCEMENT DETAIL

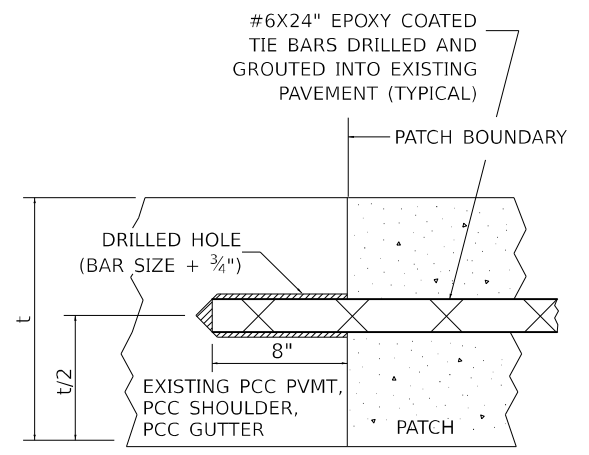


WITHOUT HMA OVERLAY



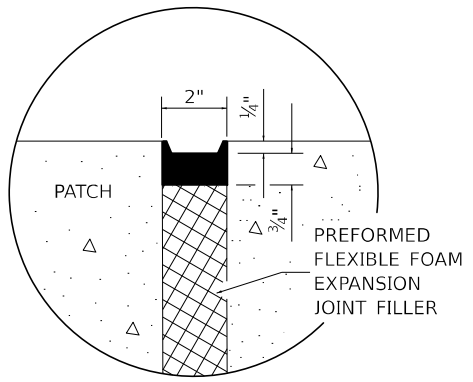
WITH HMA OVERLAY

CLASS A PATCH WITH EXPANSION JOINT

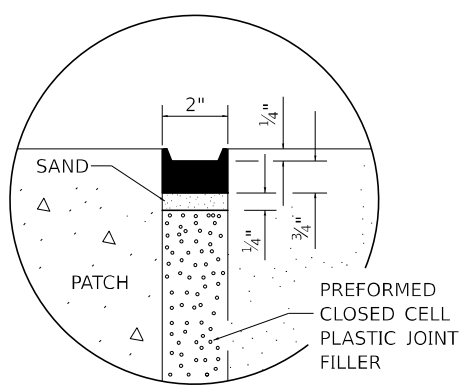


LONGITUDINAL CONSTRUCTION JOINT

PATCHES MORE THAN 20' IN LENGTH SHALL BE TIED TO ADJACENT PAVEMENT, PCC SHOULDERS OR PCC CURB AND GUTTER WITH #6X24" EPOXY COATED TIE BARS AT 36" CENTERS.



SEALING DETAIL



SEALING DETAIL

- NOTES:**
- EXISTING LONGITUDINAL REINFORCEMENT SPACING; $\pm 6\frac{1}{2}$ ".
 - SPACING OF NEW LONGITUDINAL REINFORCEMENT AND NEW LONGITUDINAL TIE BARS SHALL MATCH SPACING OF EXISTING REINFORCEMENT AND SHALL BE TIED TOGETHER WITH A MINIMUM OF TWO TIES PER BAR.
 - SUPPORT CHAIRS SHALL BE REQUIRED WHENEVER PATCH LENGTH EXCEEDS 6'-0"
 - * EVERY THIRD INTERSECTION MUST BE TIED. WHEN THE MINIMUM CLEARANCE CANNOT BE OBTAINED WITH THE TRANSVERSE REBAR ON TOP, THEN THE TRANSVERSE REBAR SHALL BE TIED TO THE BOTTOM OF THE LONGITUDINAL REBAR.
 - ** VARIABLES WHERE S_1 AND S_2 ARE $2\frac{1}{2}$ " MIN. AND 12" MAX.

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	DRAWN -	REVISED -
PLOT SCALE = 0.1666667 / in.	CHECKED -	REVISED -
PLOT DATE = 2/7/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PATCHING CLASS A SPECIAL DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D5 CM PATCHING 2025-1	PIATT	II	II
CONTRACT NO. 70H29				
ILLINOIS FED. AID PROJECT				