

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

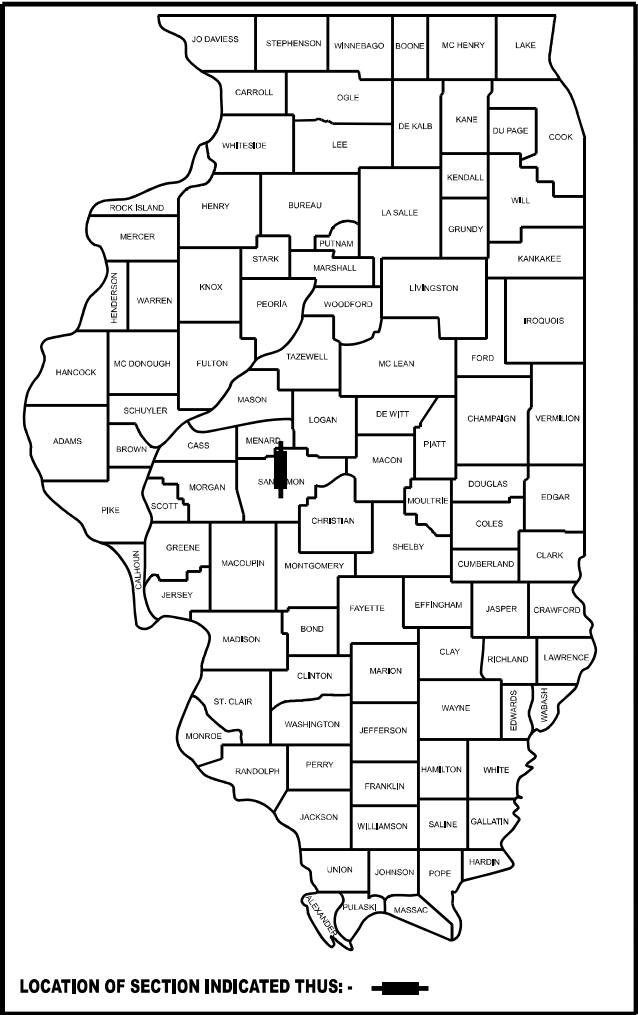
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	1
		ILLINOIS	CONTRACT NO. 72222	

D-96-087-22

FOR INDEX OF SHEETS, SEE SHEET NO. 2

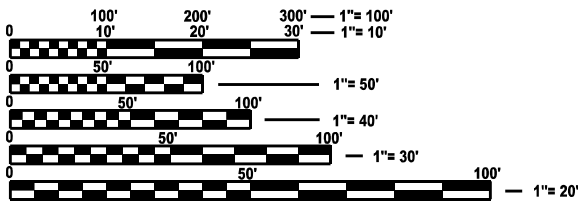
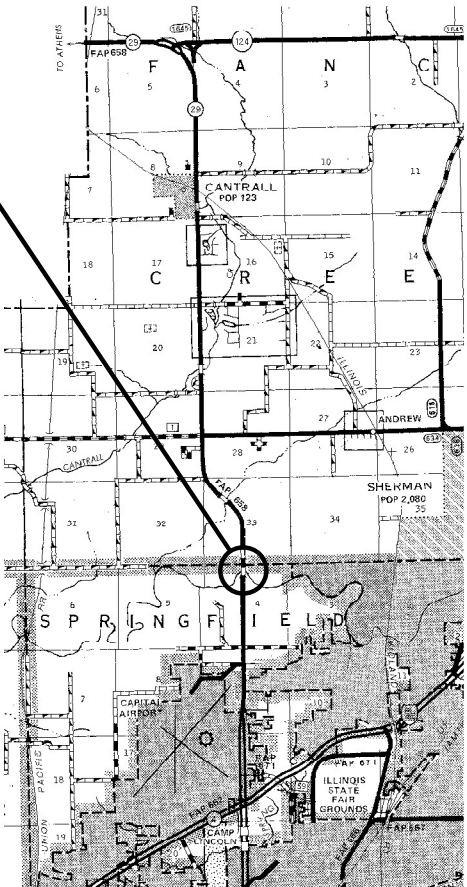
PROPOSED
HIGHWAY PLANS

FAP ROUTE 658 (IL 29)
SECTION (102B-3)BDR,BJR
PROJECT BR-IUWC(771)
BRIDGE DECK OVERLAY
SANGAMON COUNTY
C-96-029-23



LOCATION OF SECTION INDICATED THUS: - ■ -

PROJECT LOCATION
SN 084-0207
IL 29 OVER SANGAMON R.
2.7 MI N. IL 4



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: BRANDON DUDLEY - (217) 785-9290
PROJECT MANAGER

CONTRACT NO. 72222

GROSS LENGTH = 876 FT. = 0.17 MILE
NET LENGTH = 876 FT. = 0.17 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 22, 2026
Teresa C. Price
REGIONAL ENGINEER
August 14, 2026
See E. A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
August 14, 2026
Quarry
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1COVER SHEET
- 2INDEX, STANDARDS, GENERAL NOTES, SIGNATURES, SCHEDULES, & MIX TABLE
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- 7TYPICAL SECTIONS
- 8ROADWAY PLAN
- 9-25TRAFFIC CONTROL PLAN
- 26-28DETOUR PLAN
- 29-42BRIDGE PLANS, SN 084-0207

HIGHWAY STANDARDS

- 000001-09
- 001001-02
- 001006
- 701001-02
- 701006-05
- 701201-05
- 701301-04
- 701311-03
- 701326-04
- 701901-11
- 704001-08
- 782006-01

HMA MIX TABLE			
MIXTURE USE	HMA BASE CSE (TOP 1.5")	HMA BASE CSE (LOWER LIFTS)	HMA SURF. CSE
PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE	MIX "C"	N/A	MIX "C"
MIXTURE WEIGHT	112 LB/SY*IN	112 LB/SY*IN	112 LB/SY*IN
QUALITY MANAGEMENT	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A

GENERAL NOTES:

THE CONTRACTOR SHALL USE TYPE IV PAVEMENT MARKING TAPE AS SHORT-TERM PAVEMENT MARKING ON THE SURFACE LIFT.

NOTE: NUCLEAR GAUGE WILL BE USED FOR DENSITY VERIFICATION BY THE ENGINEER ON QC/QA ITEMS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED June 2, 2026

ENGINEER OF OPERATIONS

EXAMINED June 1, 2026

ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED June 22, 2026

ENGINEER OF PROGRAM DEVELOPMENT

ROADWAY IMPROVEMENT SCHEDULE													
STA	TO	STA	LENGTH (FT)	WIDTH (FT)	PAVED SHLDR. REM. (SQ. YD.)	EARTH EX. WIDENING (CU. YD.)	BASE CSE. WIDENING, 10" (SQ. YD.)	HMA SURF. REM. - BUTT JOINT (SQ. YD.)	PAVT. CONN. (HMA) FOR BR. APPR. SLAB (SQ. YD.)	PAVT. REM. (SQ. YD.)	BIT. MATL. (TACK COAT) (POUND)	HMA SURF. CSE. (TON)	PAVT. MARK. REM. - GRINDING (SQ. FT.)
407+30.00 LT	-	410+94.66 LT	364.66	10.0	405.2	22.5	405.2						
408+75.00 RT	-	410+94.66 RT	219.66	10.0	244.1	13.6	244.1						
420+28.44 LT	-	423+95.00 LT	366.56	10.0	407.3	22.6	407.3						
420+28.44 RT	-	422+50.00 RT	221.56	10.0	246.2	13.7	246.2						
409+94.00	-	410+44.00	50.0	44.0				244.4					
420+79.00	-	421+29.00	50.0	44.0				244.4					
410+83.66	-	420+93.66	10.0	44.0					48.9				
410+83.66	-	420+94.66	11.0	44.0						53.8			
420+28.44	-	420+39.44	11.0	44.0						53.8			
420+29.44	-	420+39.44	10.0	44.0					48.9				
409+94.00	-	410+93.66	99.66	44.0							219.3	47.7	
420+29.44	-	421+29.00	99.56	44.0							219.0	47.7	
408+75.00 RT	-	422+50.00 RT	1375.0	0.42									577.5
407+30.00 LT	-	410+83.66 LT	353.66	0.42									148.5
420+39.44 LT	-	423+95.00 LT	355.56	0.42									149.3
TOTALS:					1303	73	1303	489	98	108	439	96	876

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				SN 084-0207
				80% FED. BFP
				20% STATE
				BRIDGE
				0059
				RURAL
20200500	EARTH EXCAVATION (WIDENING)	CU YD	73	73
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING 10"	SQ YD	1303	1303
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	439	439
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	489	489
40600990	TEMPORARY RAMP	SQ YD	118	118
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	96	96
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	98	98
44000100	PAVEMENT REMOVAL	SQ YD	108	108
44004250	PAVED SHOULDER REMOVAL	SQ YD	1303	1303
50102400	CONCRETE REMOVAL	CU YD	19.1	19.1
50200100	STRUCTURE EXCAVATION	CU YD	26.7	26.7
50300225	CONCRETE STRUCTURES	CU YD	28.1	28.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	38.7	38.7
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	123	123

REV - MS

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				SN 084-0207
				80% FED. BFP
				20% STATE
				BRIDGE
				0059
				RURAL
50300300	PROTECTIVE COAT	SQ YD	4505	4505
50500505	STUD SHEAR CONNECTORS	EACH	12	12
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	53,230	53,230
50800515	BAR SPLICERS	EACH	362	362
50800530	MECHANICAL SPLICERS	EACH	182	182
53016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	10	10
53101002	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	4157	4157
53101610	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	4157	4157
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	18.9	18.9
59200101	BRIDGE WASHING NO. 1	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1

REV - MS

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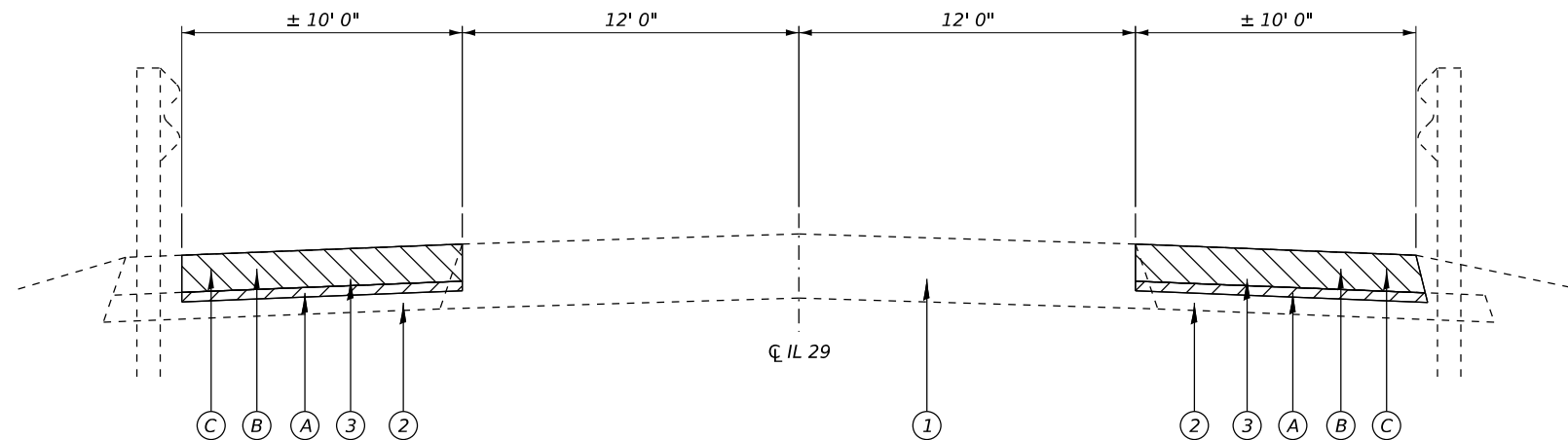
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				SN 084-0207
				80% FED. BFP 20% STATE
				BRIDGE
				0059
				RURAL
70107025	CHANGEABLE MESSAGE SIGNS	CAL DAY	450	450
70300100	SHORT TERM PAVEMENT MARKING	FOOT	200	200
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	67	67
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1225	1225
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1225	1225
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	3800	3800
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	876	876
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	4297	4297
X5030530	FLOOR DRAIN EXTENSION	EACH	26	26
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7200203	DETOUR SIGNING	L SUM	1	1

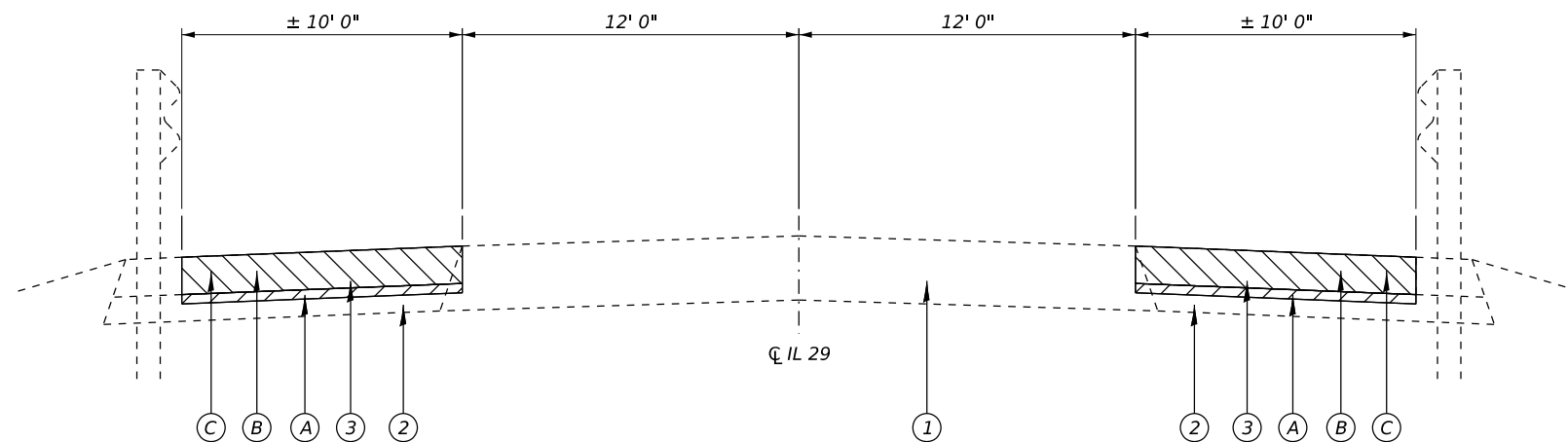
* SPECIALTY ITEM

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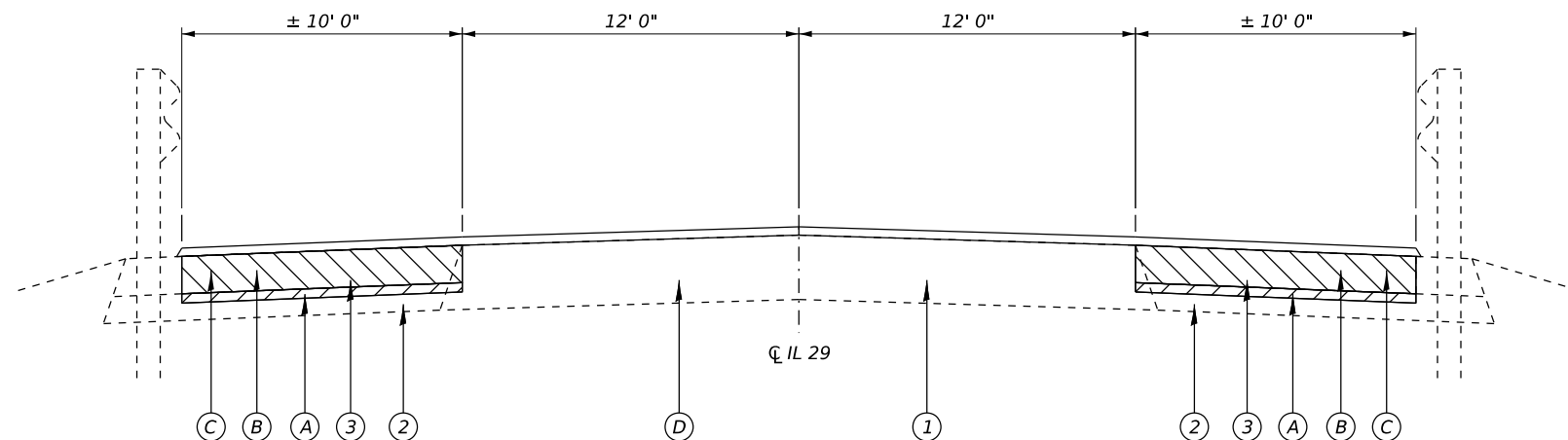
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	PLOT DATE = 5/8/2026	DATE -	REVISED -		SCALE:	SHEET 3	OF 4	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



STA 407+75 TO STA 408±00
STA 421+88 TO STA 423+50



STA 408±00 TO STA 409+94
STA 421+29 TO STA 421+88



STA 409+94 TO STA 410+94
STA 420+29 TO STA 421+29

EXISTING LEGEND

- ① EX. HMA PAVEMENT, ±13-1/2"
- ② EX. SUBBASE GRANULAR MATL OR IMPROVED SUBGRADE
- ③ EX. HMA SHOULDERS, ± 8"

PROPOSED LEGEND

- Ⓐ PR. EARTH EXCAVATION, WIDENING
- Ⓑ PR. PAVED SHOULDER REMOVAL
- Ⓒ PR. HMA BASE CSE. WIDENING, 10"
- Ⓓ PR. HMA SURF. CSE., 1-3/4"

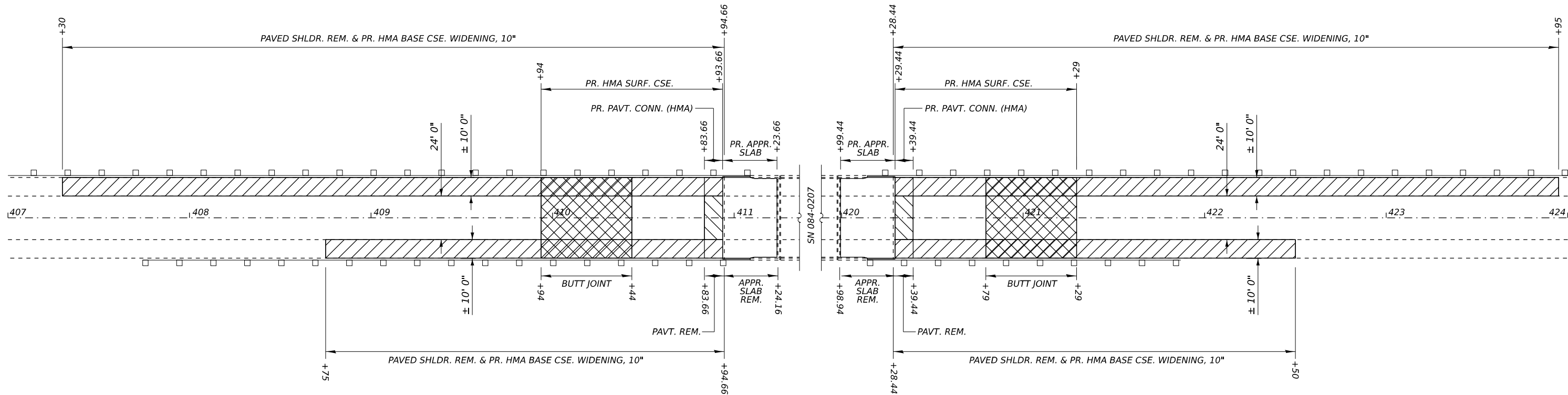
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

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658	(102B-3)BDR,BJR	SANGAMON	42	7
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				

USER NAME = brandon.dudley	DESIGNED -	REVISED -
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	CHECKED -	REVISED -
PLOT DATE = 5/8/2026	DATE -	REVISED -



ROADWAY PLAN

-  PAVED SHOULDER REMOVAL
-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL - BUTT JOINT

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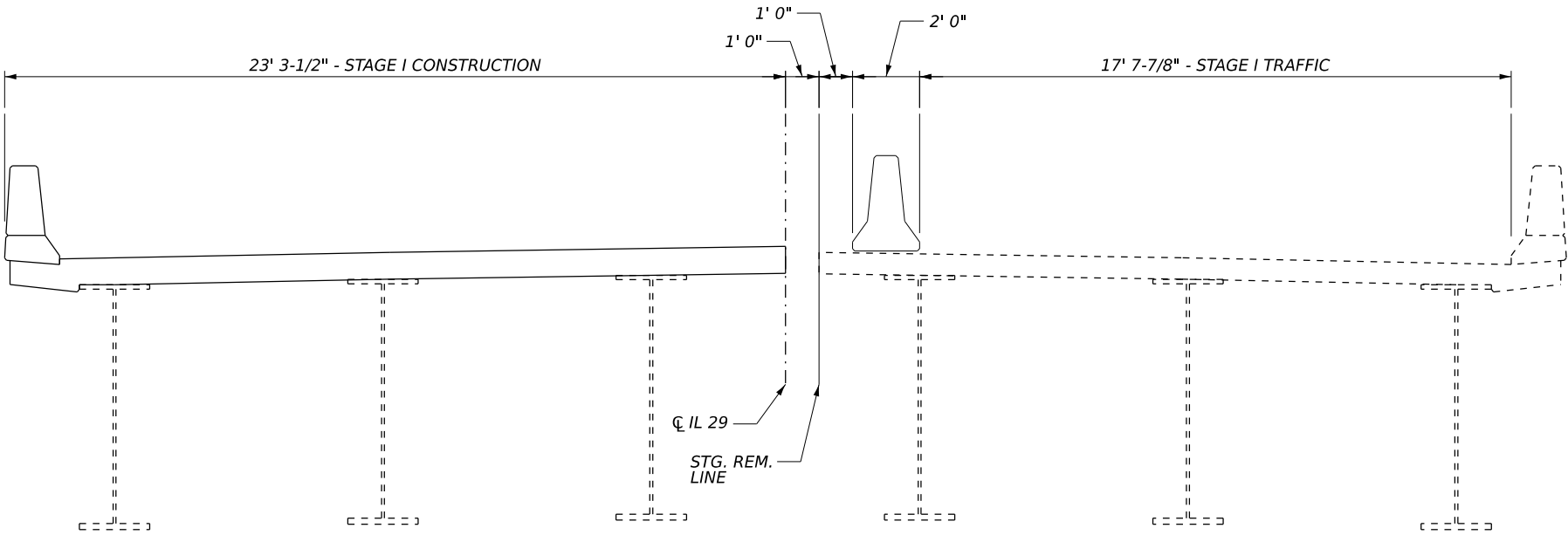
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STATE OF ILLINOIS
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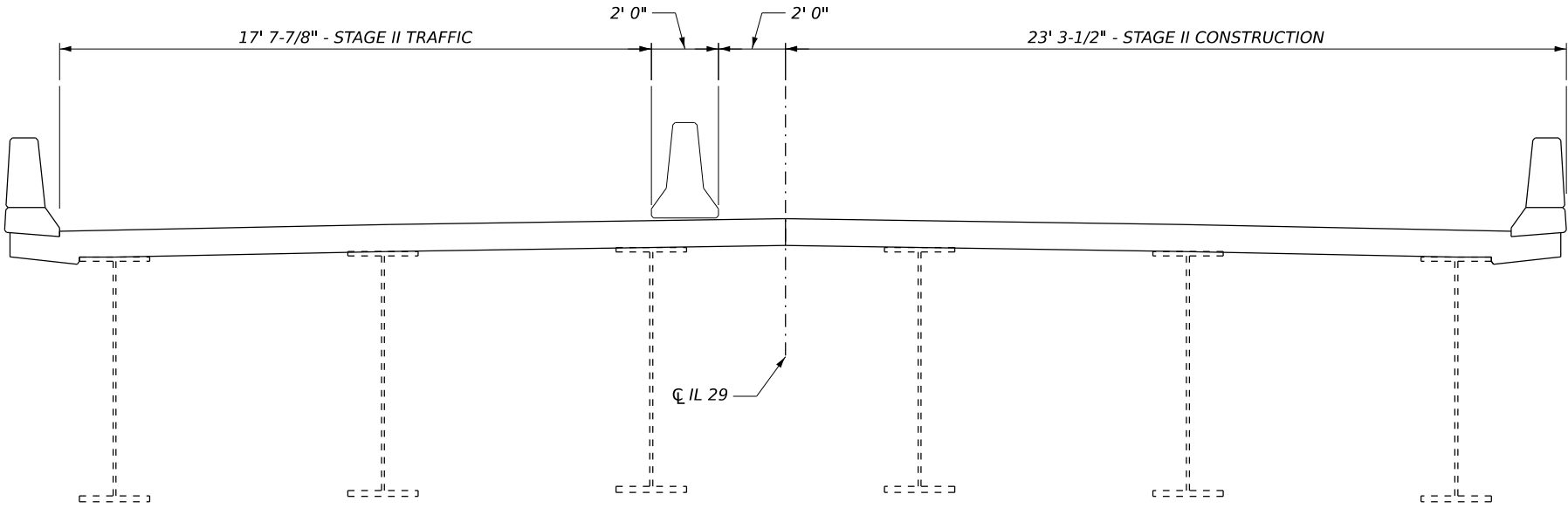
ROADWAY PLAN

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

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658	(102B-3)BDR,BJR	SANGAMON	42	8
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



STAGE I TRAFFIC
(LOOKING SOUTH)



STAGE II TRAFFIC
(LOOKING SOUTH)

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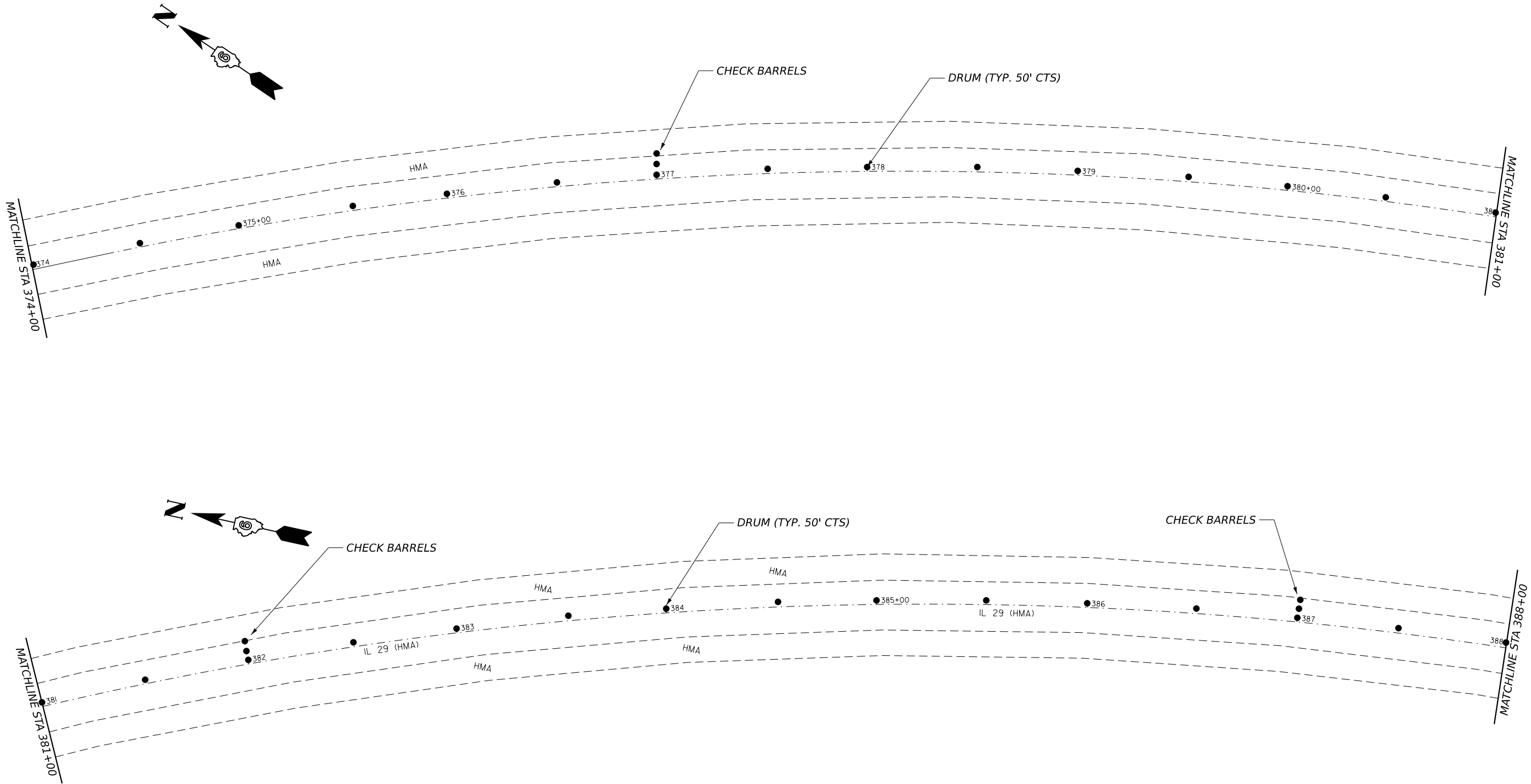
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PLOT DATE = 5/8/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC STAGING PLAN			
SCALE:	SHEET 2	OF 2	SHEETS
STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	9
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				

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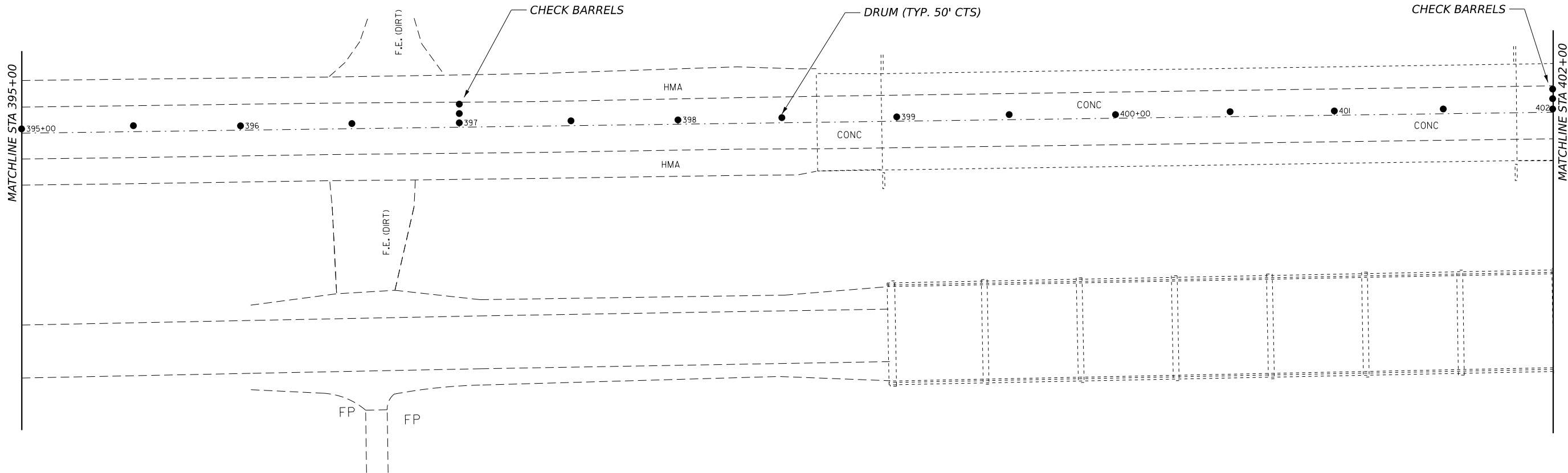
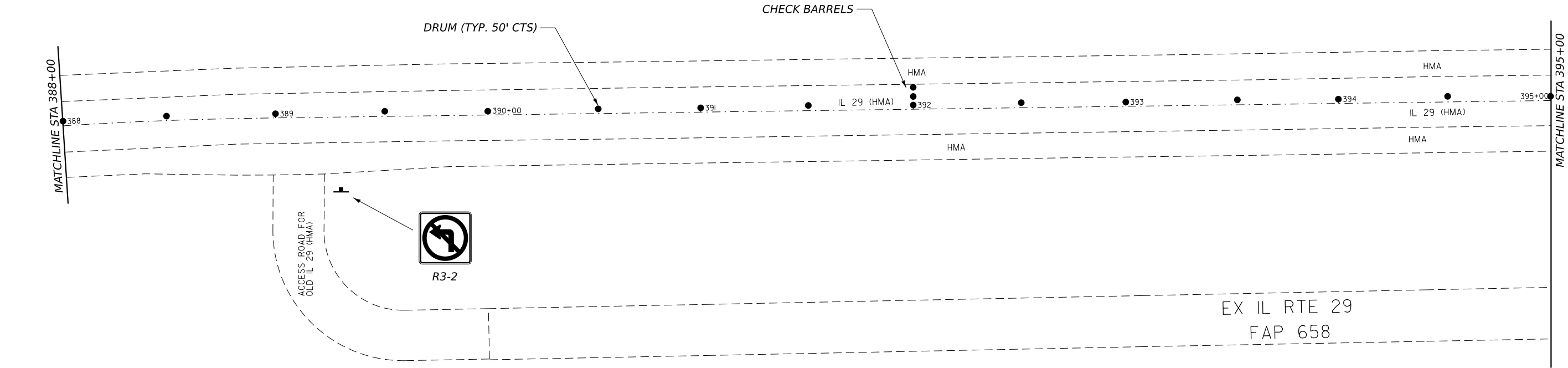
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL

SCALE: SHEET A002 OF 8 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	11
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



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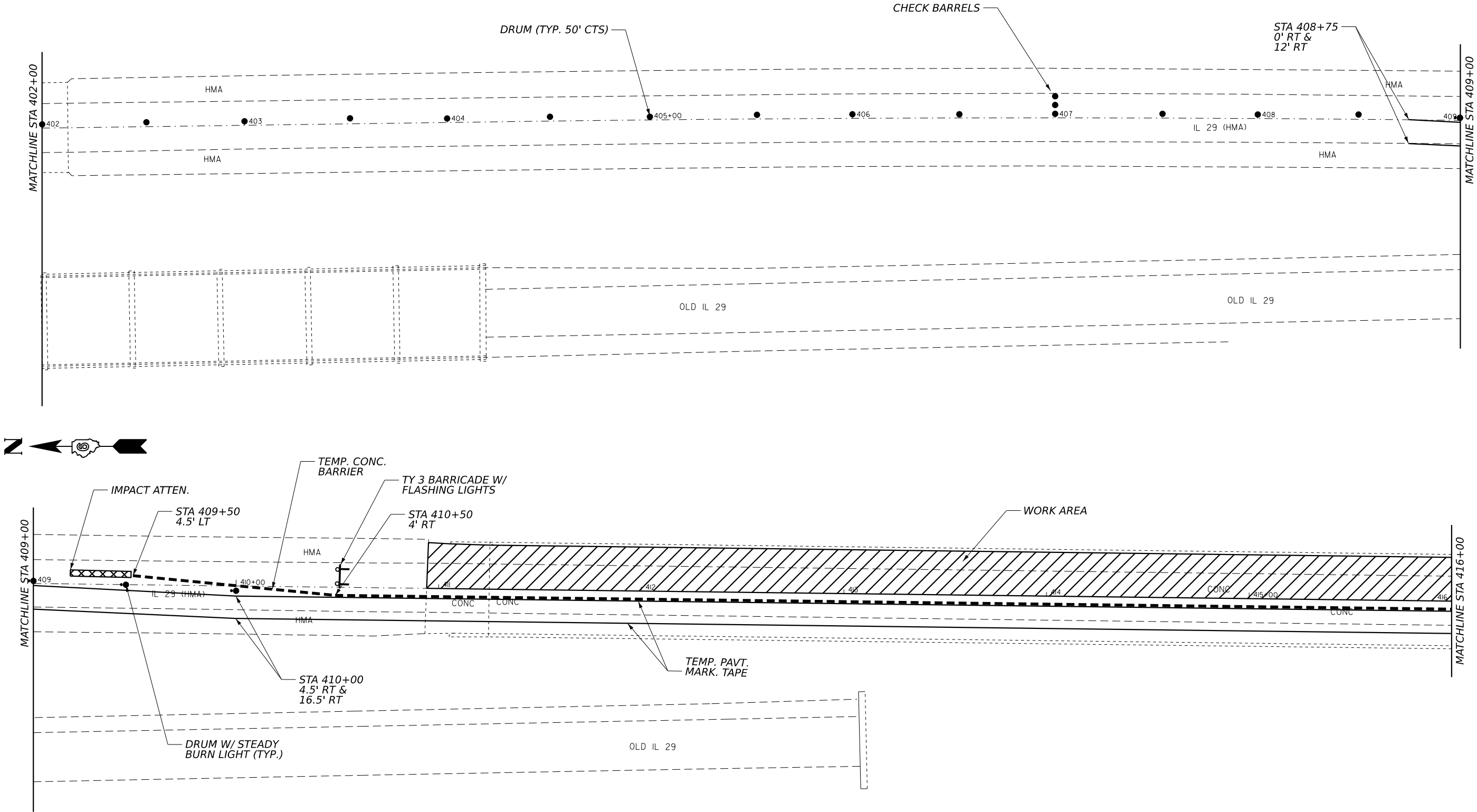
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL

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CONTRACT NO. 72222				
		ILLINOIS	FED. AID PROJECT	

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		CHECKED	-	REVISED	-
PLOT DATE	= 5/8/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL

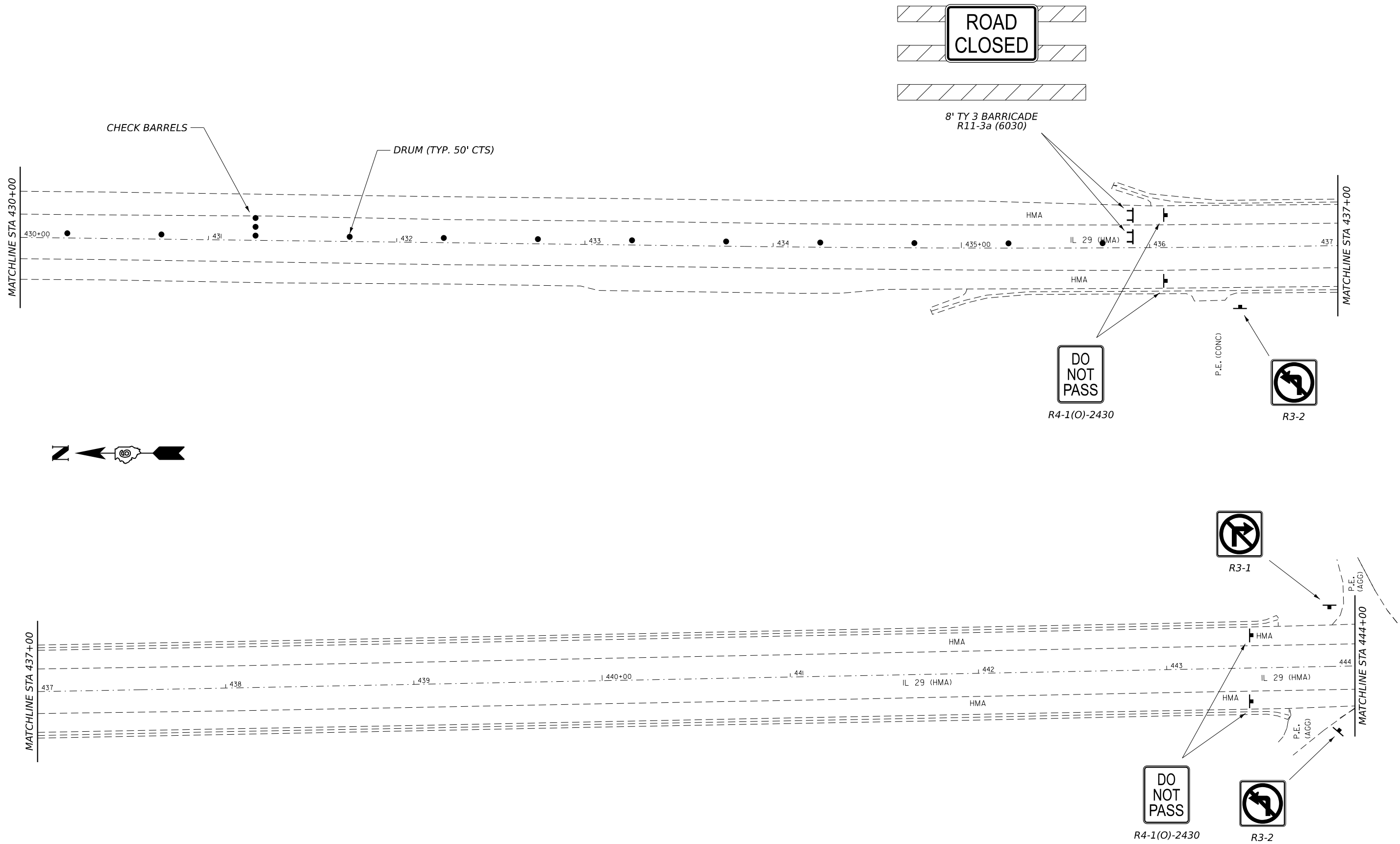
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CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72222				
ILLINOIS		FED. AID PROJECT		

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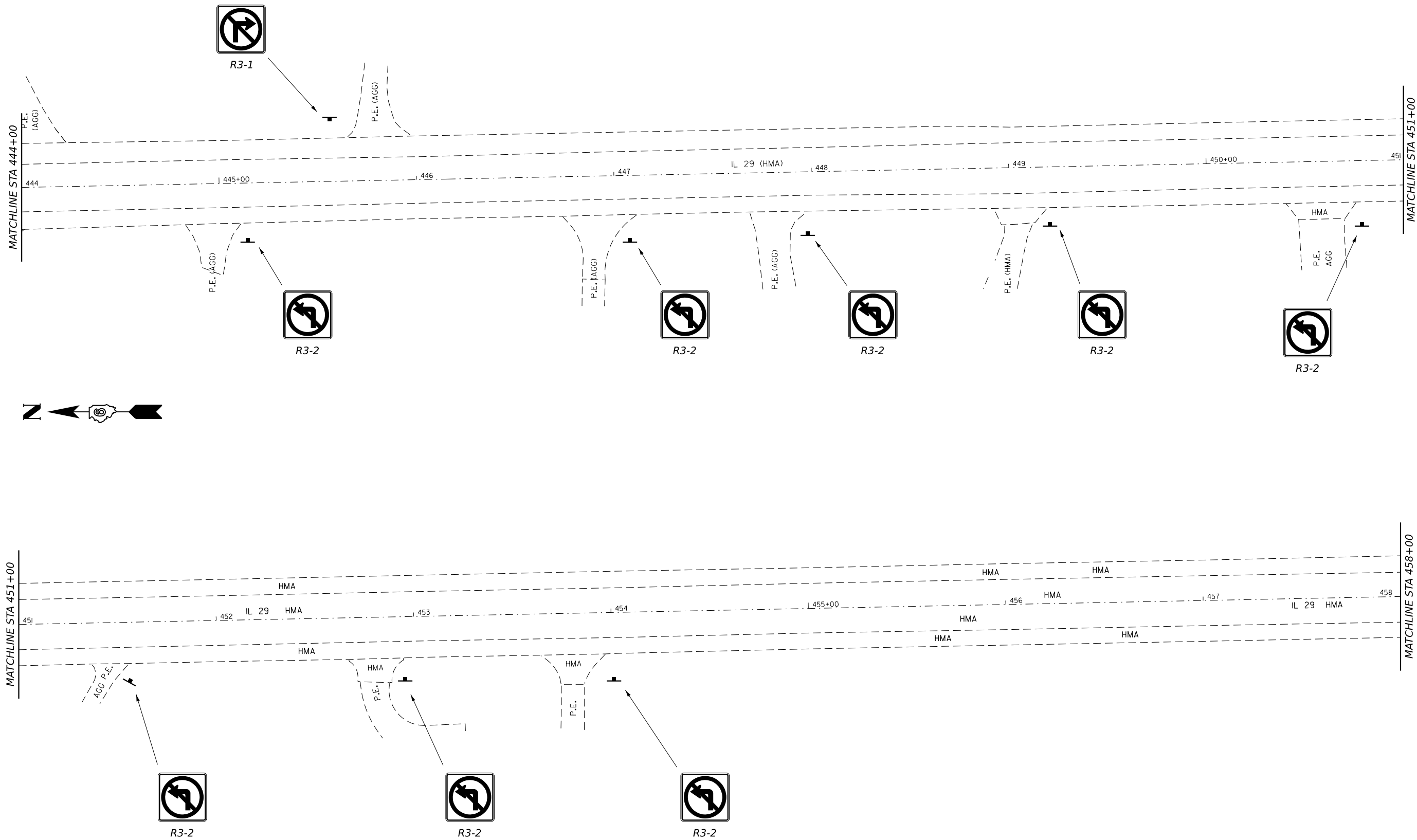
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL

SCALE: SHEET A006 OF 8 SHEETS STA. TO STA.

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CONTRACT NO. 72222				
		ILLINOIS	FED. AID PROJECT	

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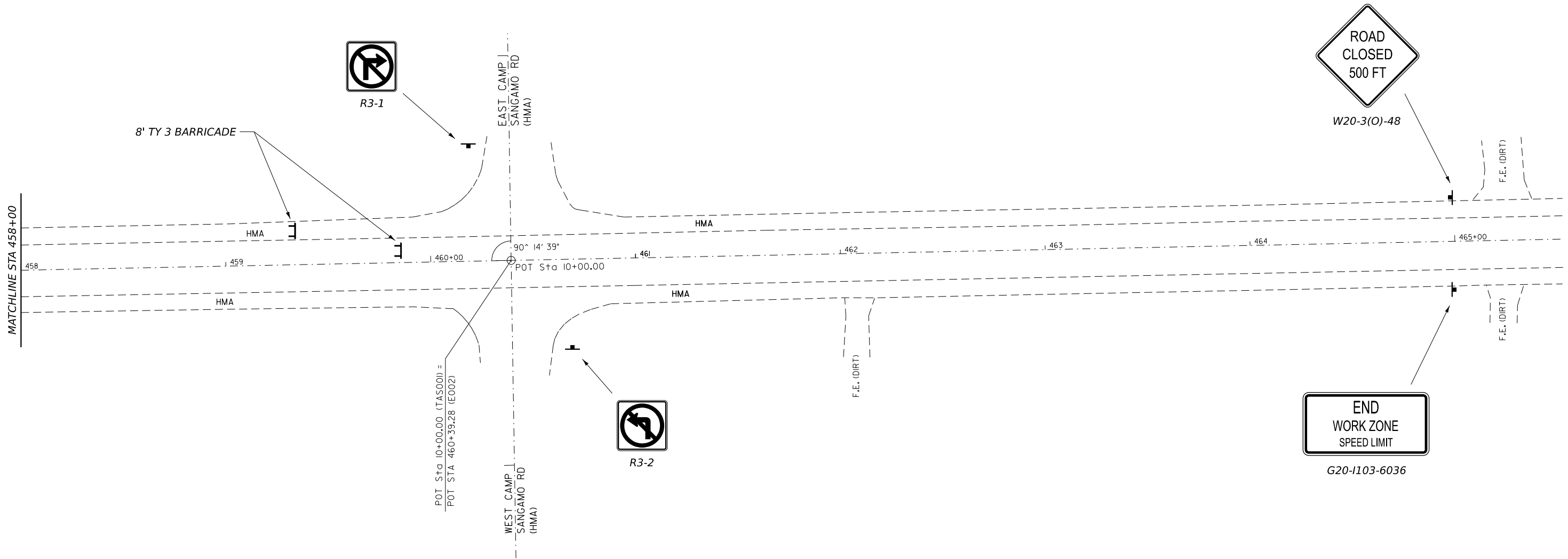
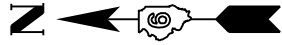
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL

SCALE: SHEET A007 OF 8 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	16
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



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		DRAWN -	REVISED -					658	(102B-3)BDR,BJR	SANGAMON	42	17
		CHECKED -	REVISED -					CONTRACT NO. 72222				
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W20-1103(O)-48

1 @ STA 348+00



W21-III5(O)-3618



R2-1-3648

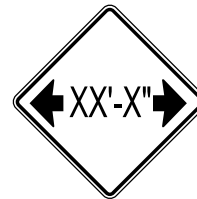


R10-1108p-3618



R2-1106p-3618

1 EA @ STA 353+00



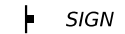
W12-1102(O)-48

1 @ STA 358+00



W20-4(O)-48

1 @ STA 363+00

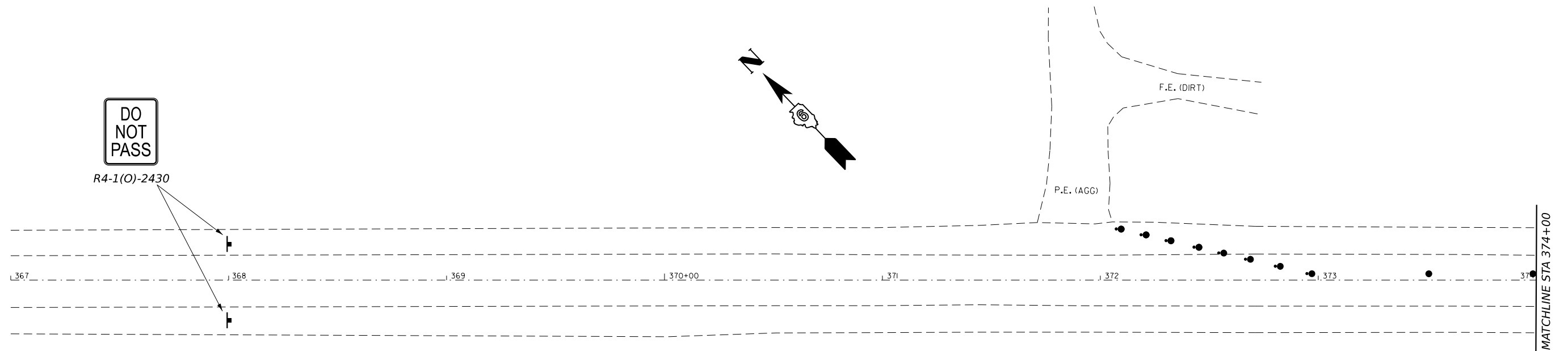


ADVANCED WARNING SIGNS

SYMBOL LEGEND



R4-1(O)-2430



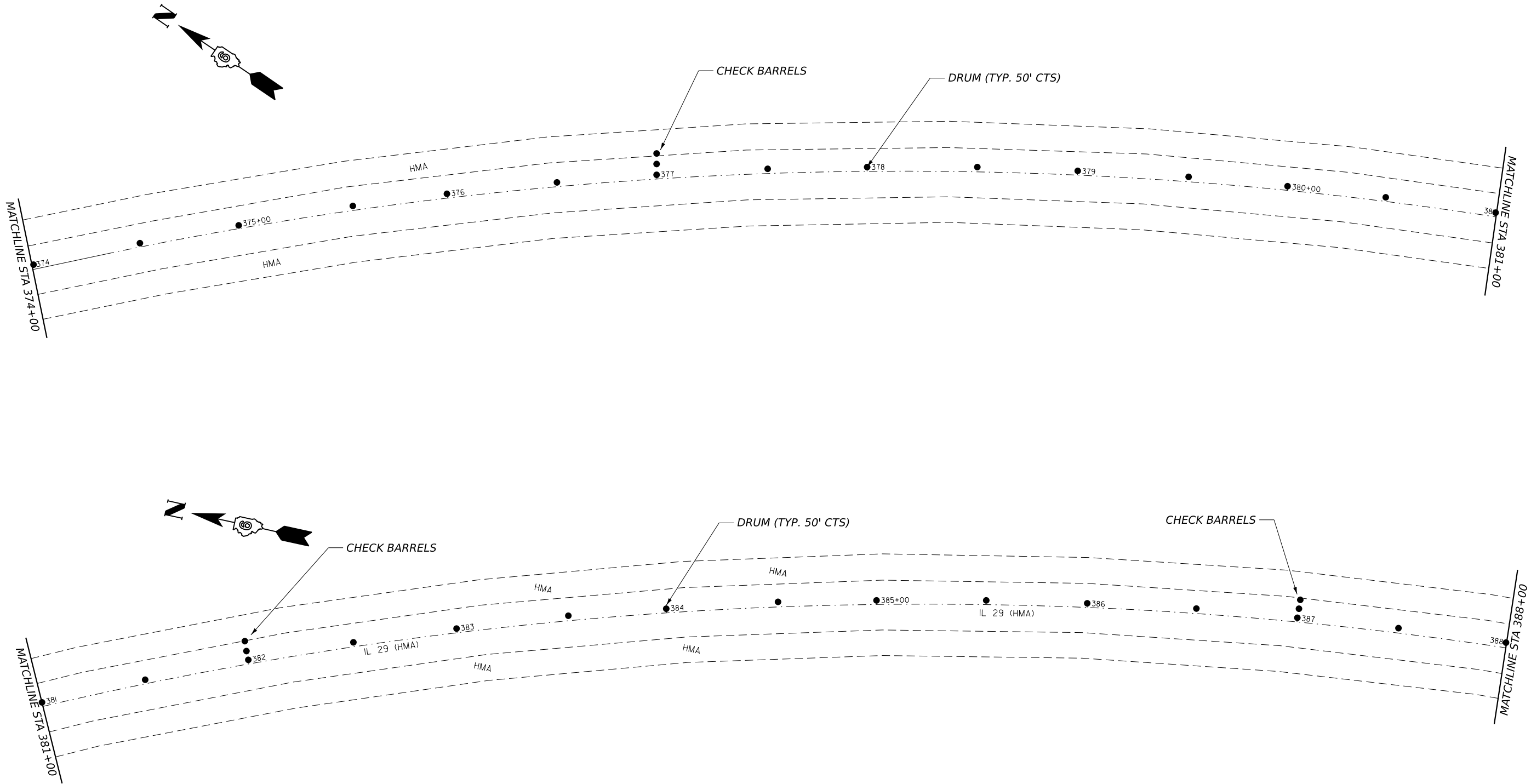
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL

SCALE:	SHEET A001	OF 8	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	18
		CONTRACT NO. 72222		
		ILLINOIS	FED. AID PROJECT	

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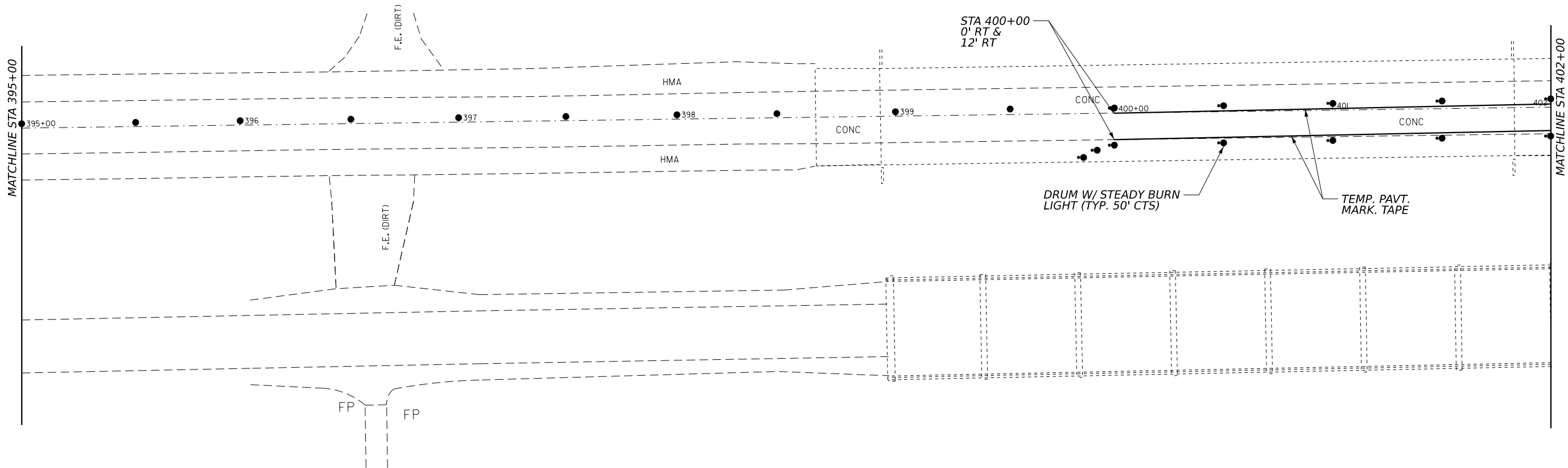
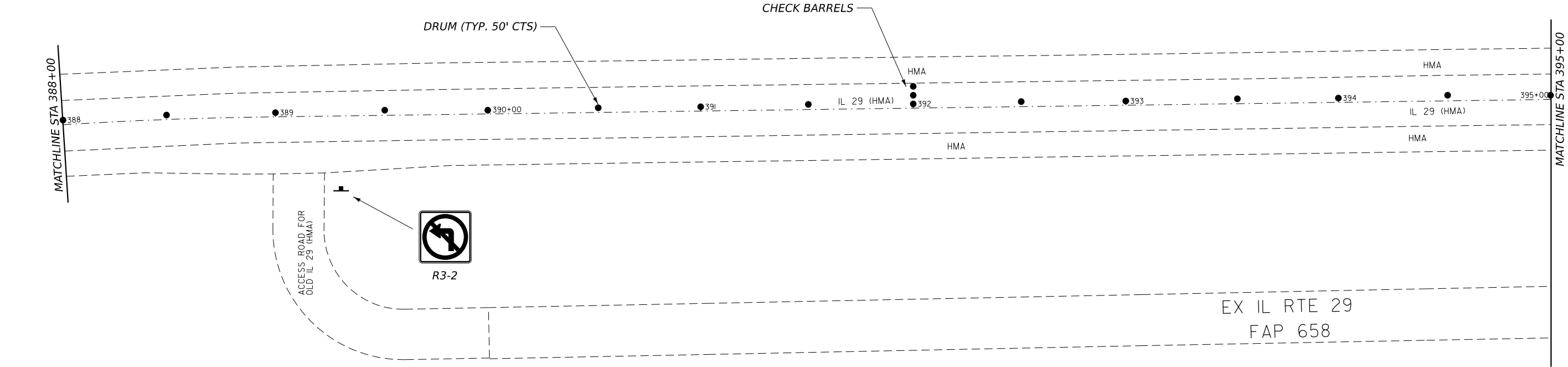
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	DRAWN -	REVISED -
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PLOT DATE = 5/8/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL

SCALE: SHEET A002 OF 8 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	19
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL

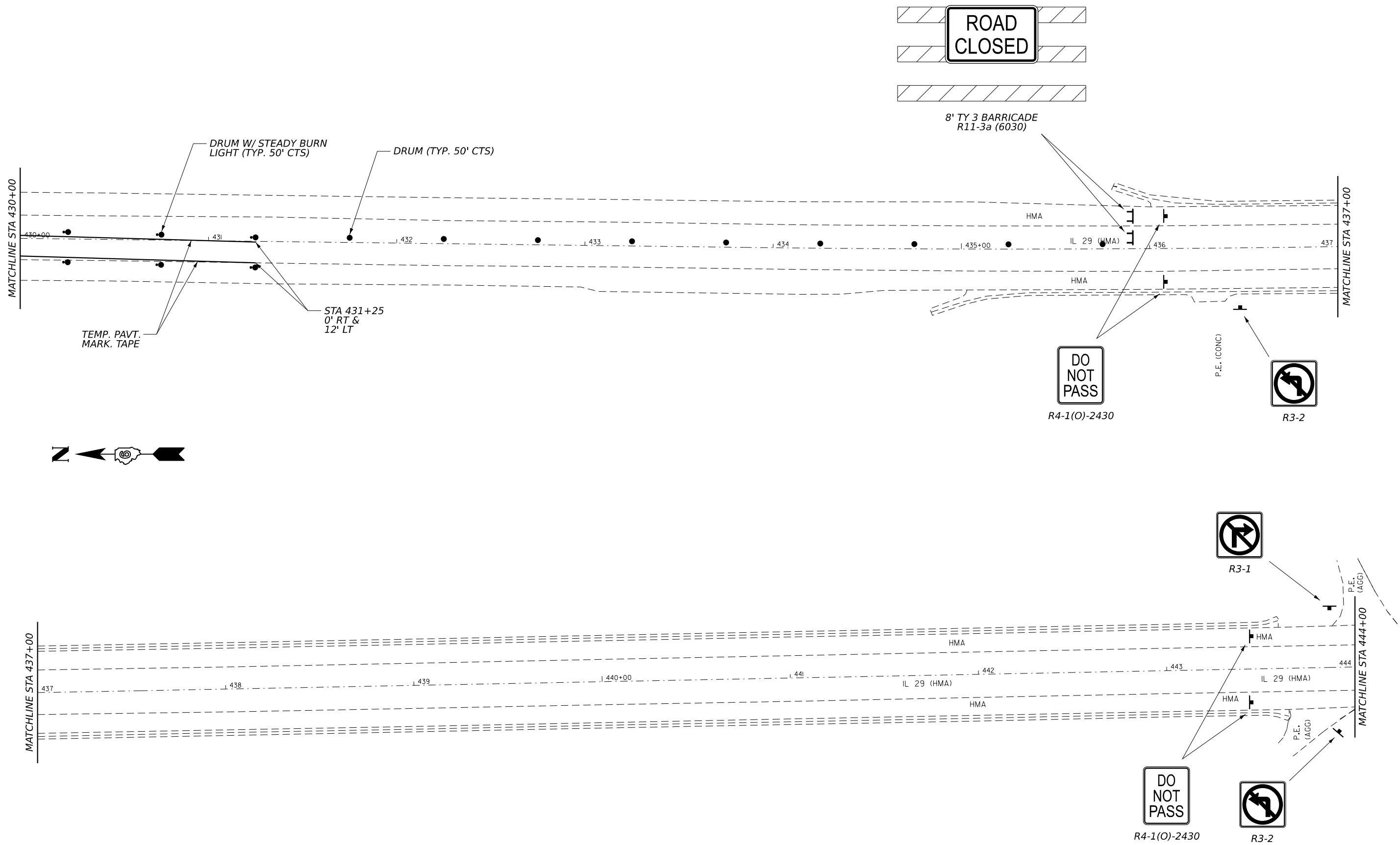
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CONTRACT NO. 72222				
		ILLINOIS	FED. AID PROJECT	



FILE NAME:	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II TRAFFIC CONTROL				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -						CONTRACT NO. 72222					
	PLOT DATE = 5/8/2026	DATE -	REVISED -		SCALE:	SHEET A005	OF 8	SHEETS	STA.	TO STA.				
									ILLINOIS FED. AID PROJECT					

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PLOT DATE	= 5/8/2026	DATE	-	REVISED	-

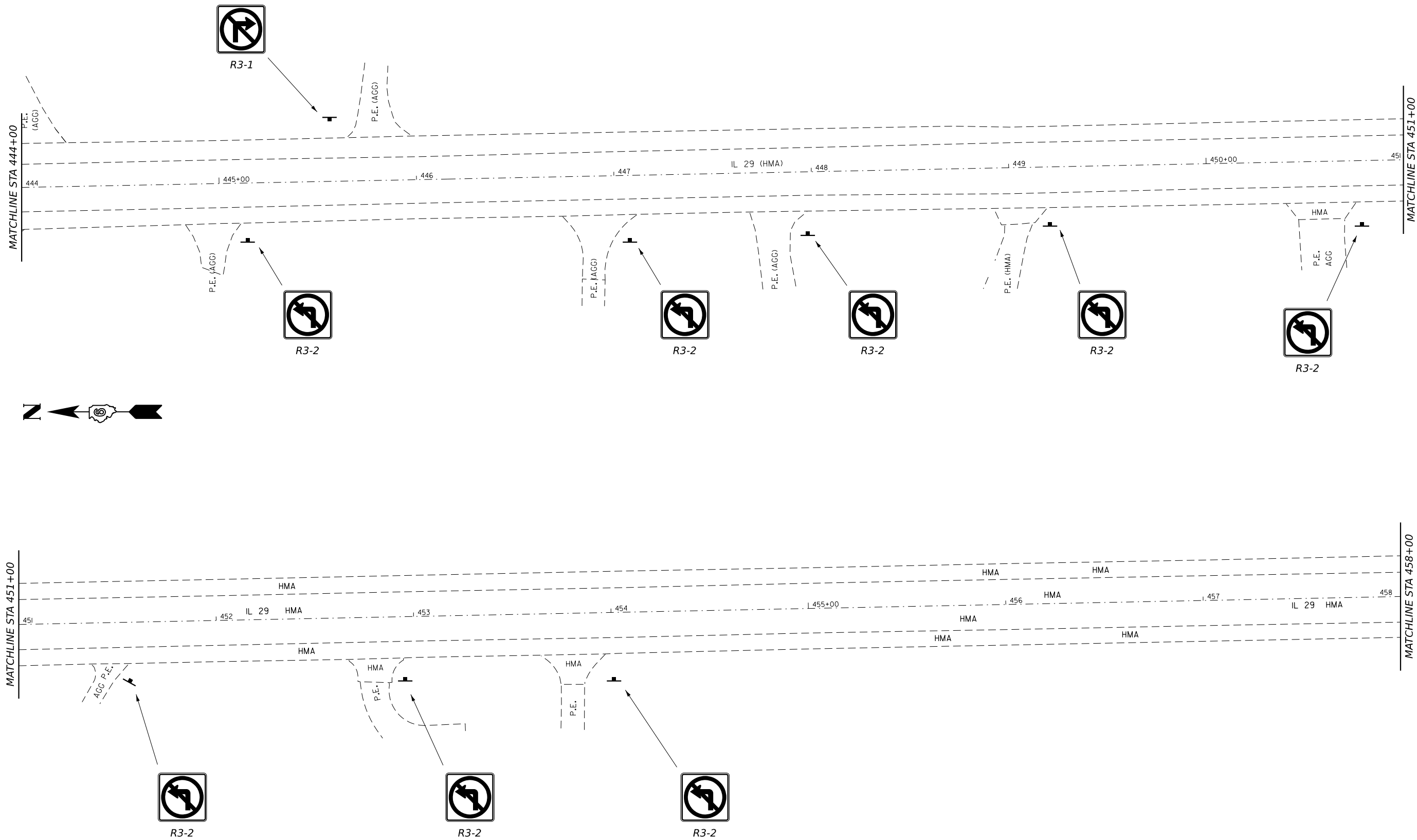
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL

SCALE: SHEET A006 OF 8 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	23
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				

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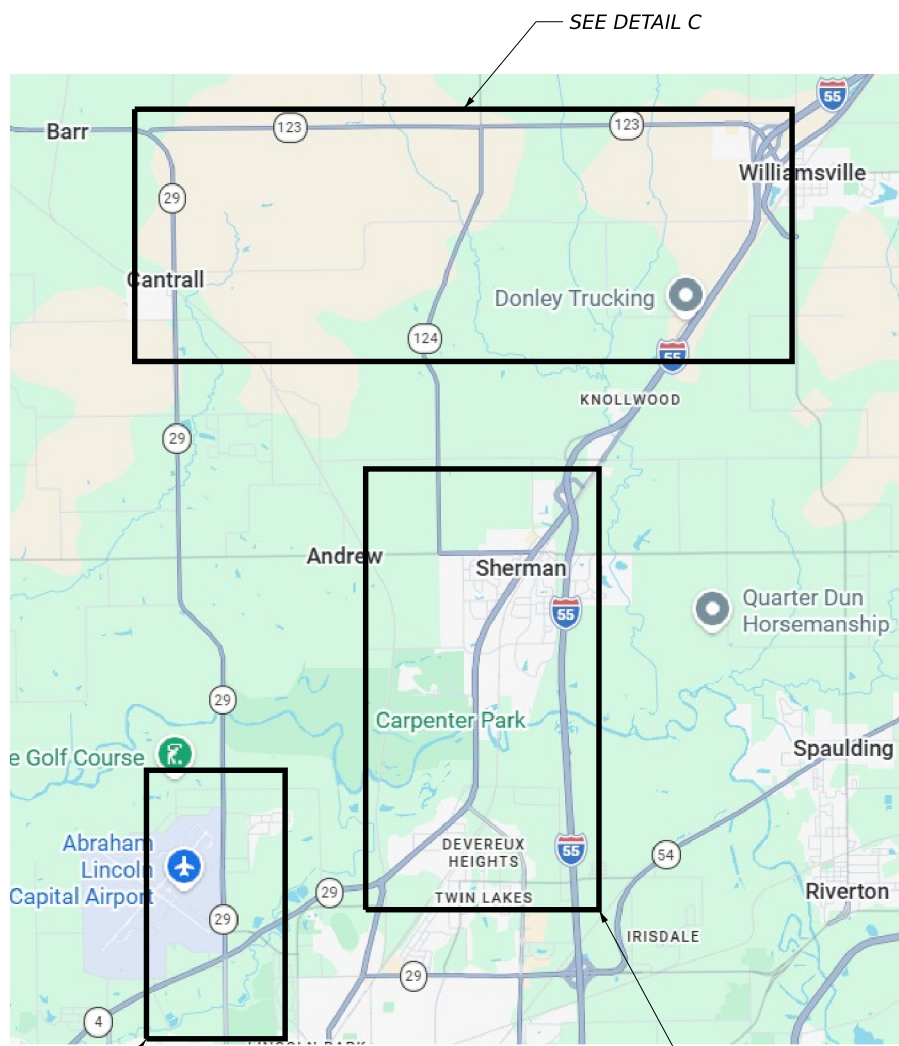
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL

SCALE: SHEET A007 OF 8 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	24
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



LOCATION MAP

CMS = CHANGEABLE MESSAGE SIGN (TO BE PAID SEPARATELY)

①

DETOUR
NORTH
29
↑

M4-8 (2412) (O)
M3-1 (2412)
M1-5.2 (2424)
M6-3 (2115)

②

DETOUR
NORTH
29
↶

M4-8 (2412) (O)
M3-1 (2412)
M1-5.2 (2424)
M5-1L (2115)

③

DETOUR
NORTH
29
←

M4-8 (2412) (O)
M3-1 (2412)
M1-5.2 (2424)
M6-1 (2115)

④

DETOUR
NORTH
29
↷

M4-8 (2412) (O)
M3-1 (2412)
M1-5.2 (2424)
M5-1R (2115)

⑤

DETOUR
NORTH
29
→

M4-8 (2412) (O)
M3-1 (2412)
M1-5.2 (2424)
M6-1 (2115)

⑥

DETOUR
NORTH
29
↗

M4-8 (2412) (O)
M3-1 (2412)
M1-5.2 (2424)
M6-2 (2115)

⑦

END
DETOUR

M4-8a (2412) (O)

⑧

ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY

8' TY 3 BARRICADE
R11-3a (6030)

⑨

ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY
←

8' TY 3 BARRICADE
R11-3a (6030)
M6-1 (2115)

⑩

ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY
→

8' TY 3 BARRICADE
R11-3a (6030)
M6-1 (2115)

SIGN INDEX

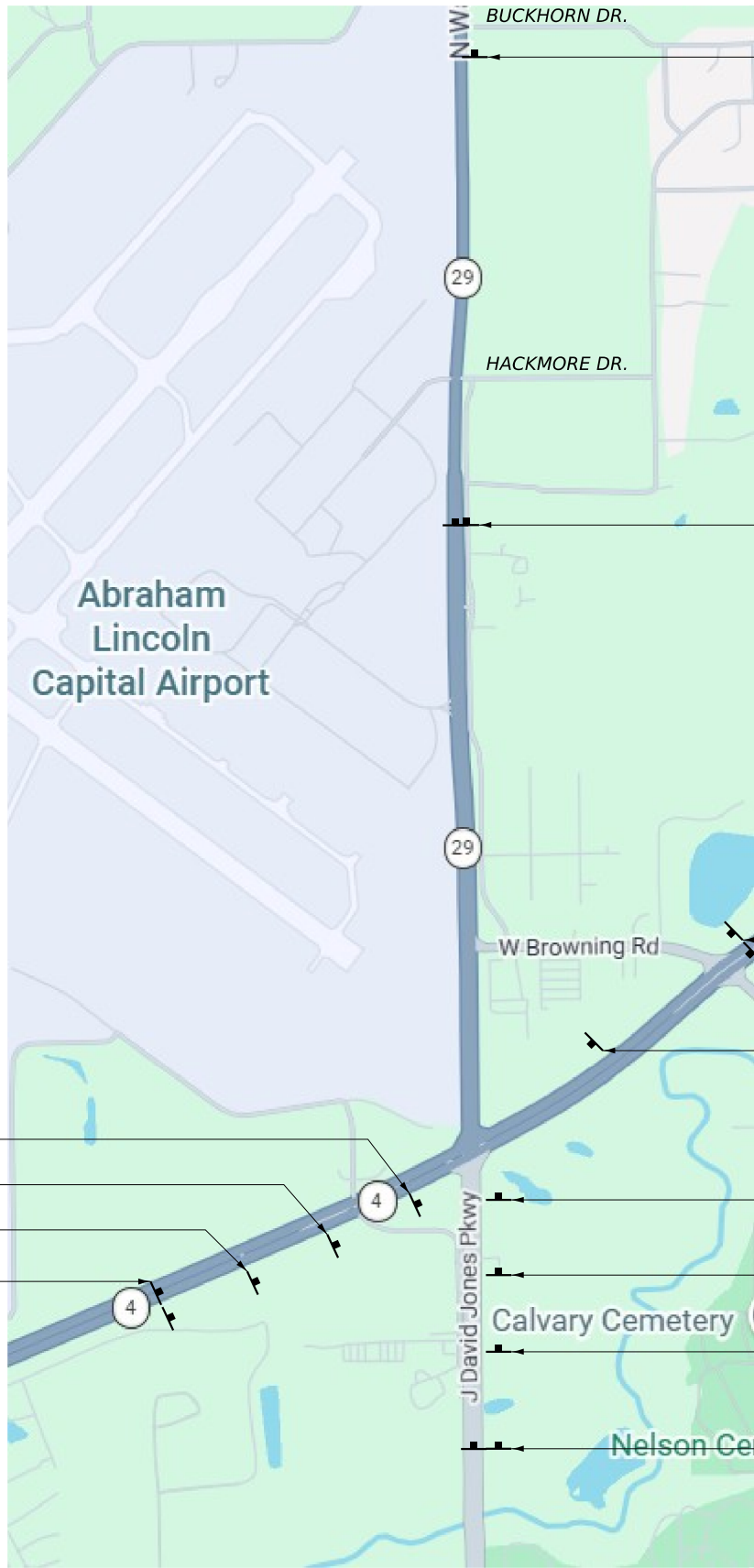
SIGN SCHEDULE	
SIGN ASSEMBLY	ASSEMBLIES REQUIRED
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2	1
3	1
4	1
5	1
6	2
7	1
8	5
9	2
10	2

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MODEL: detour-1 (Sheet)
FILE NAME: c:\p\work\pawid\du\du\pawid1192910\72222 plansheet.dgn

± 500' SPACING

①
①
CMS
⑨ x 2



DETAIL A

⑧

⑧ x 2

⑩ x 2

CMS

⑤

④

CMS

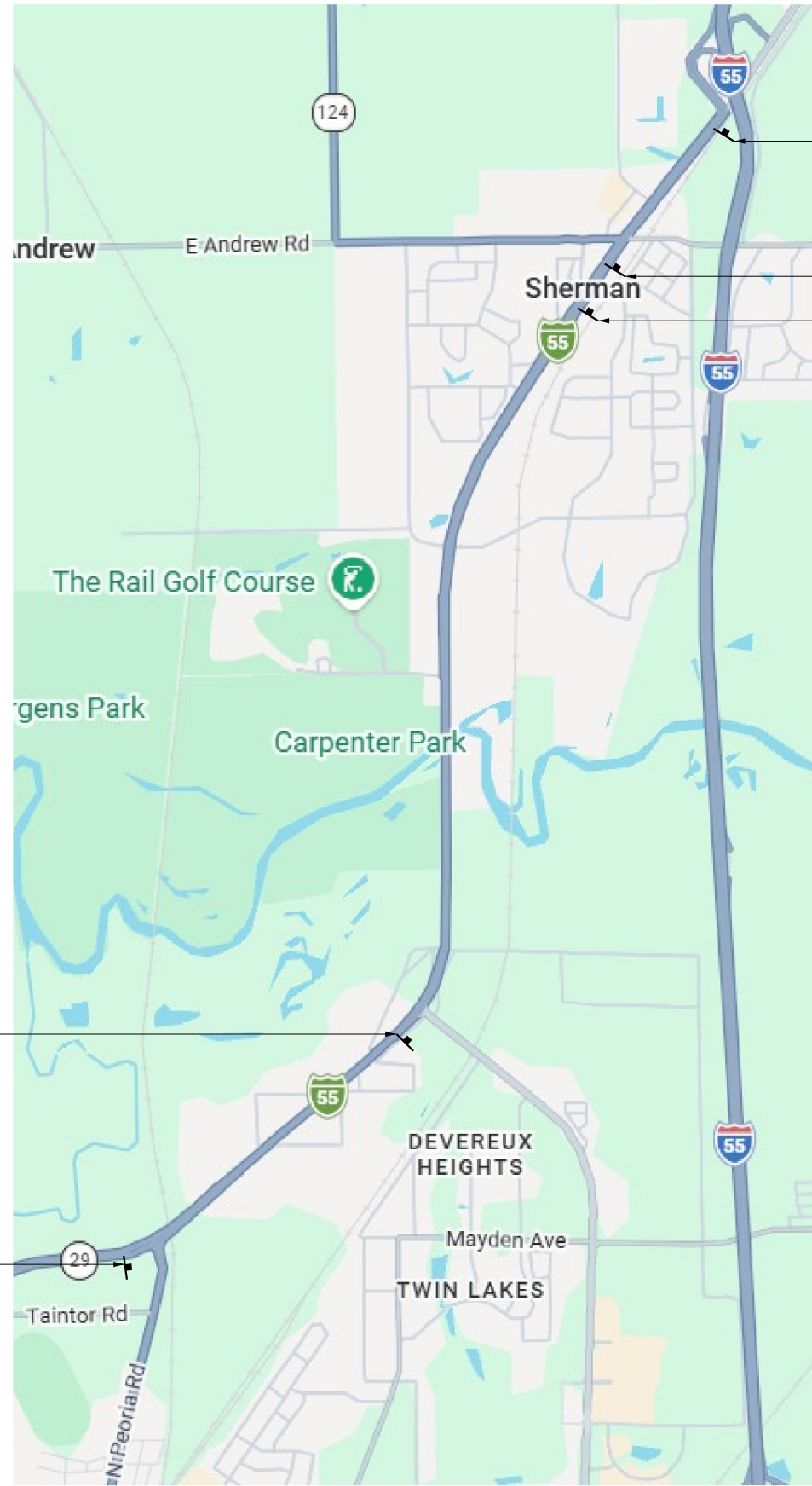
⑧ x 2

± 500' SPACING



①

①



DETAIL B

①

①

CMS

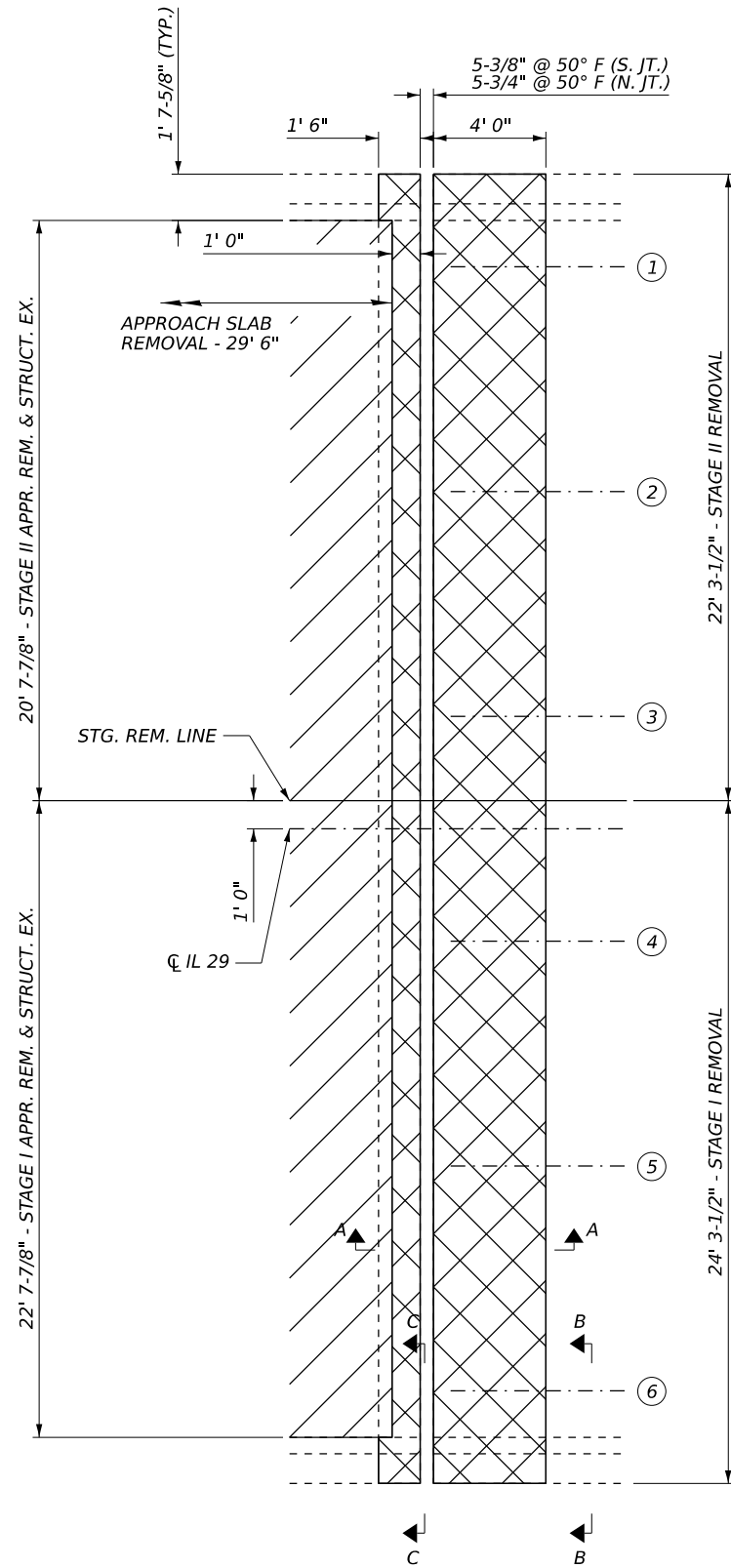
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DRAWN	-	REVIS	-	REVIS	-
CHECKED	-	REVIS	-	REVIS	-
DATE	-	REVIS	-	REVIS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

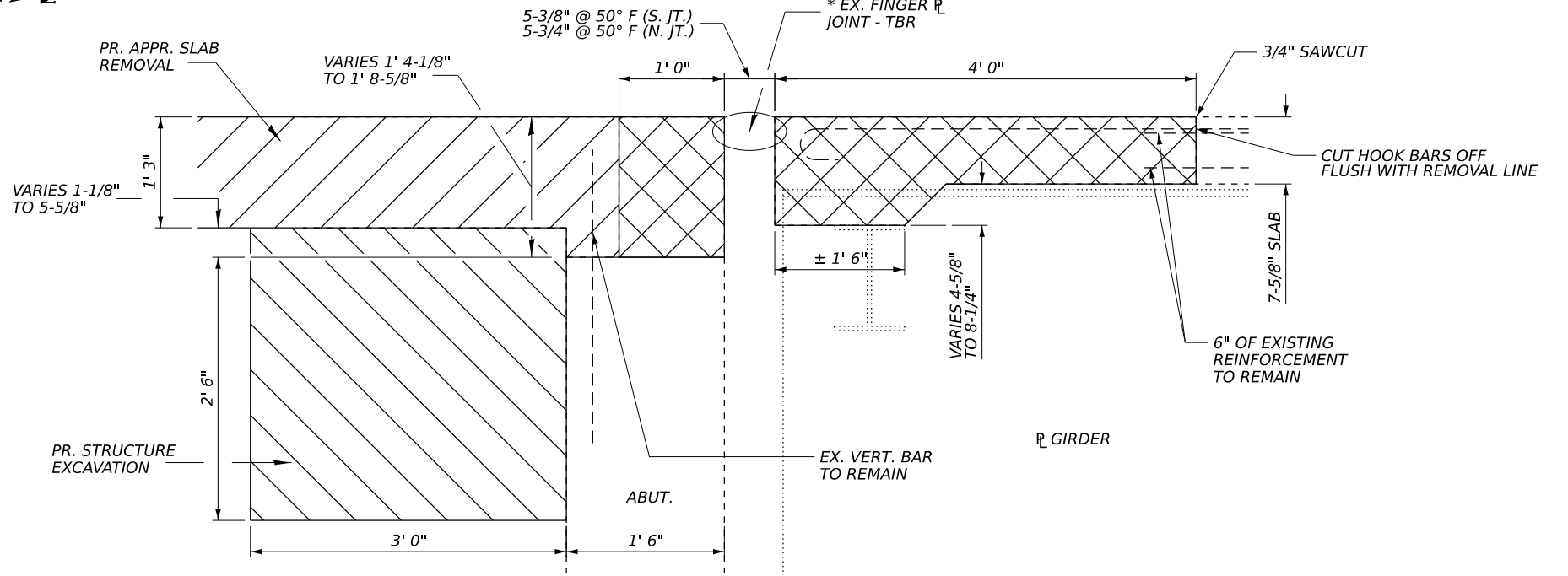
DETOUR PLAN

SCALE: SHEET A002 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	27
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				

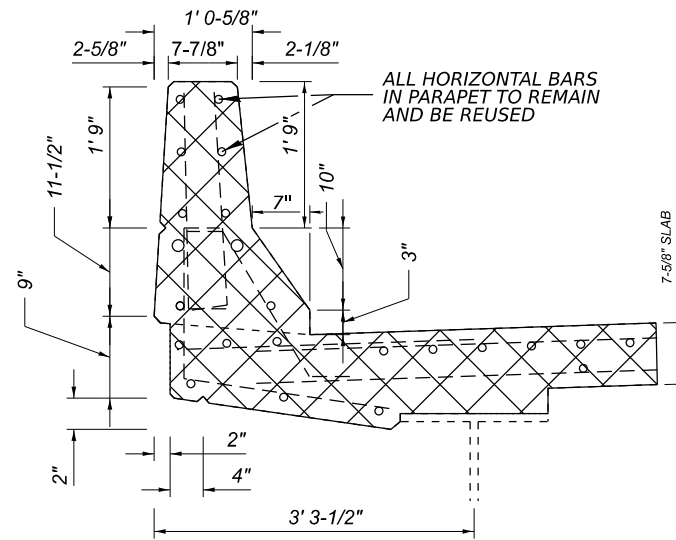


JOINT REMOVAL PLAN
(SOUTH JOINT SHOWN - NORTH SIMILAR)

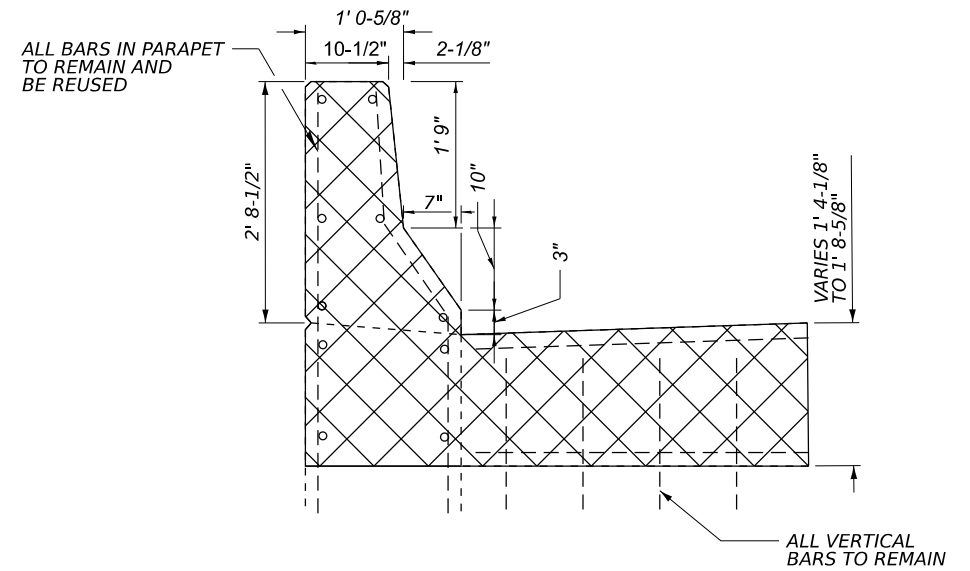


SECTION A-A

* FINGER JOINT REMOVAL SHALL BE INCLUDED IN THE BID PRICE FOR CONCRETE REMOVAL. REMOVAL SHALL INCLUDE ALL JOINT AND DRAINAGE TROUGH COMPONENTS. ALL ABANDONED BOLT HOLES RESULTING FROM FINGER JOINT REMOVAL SHALL BE PLUGGED WITH HS BOLTS AND SNUG TIGHTENED, COST INCLUDED IN CONCRETE REMOVAL.



SECTION B-B



SECTION C-C

MODEL: bridge-1 (Sheet)
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	DATE -	REVISED -	

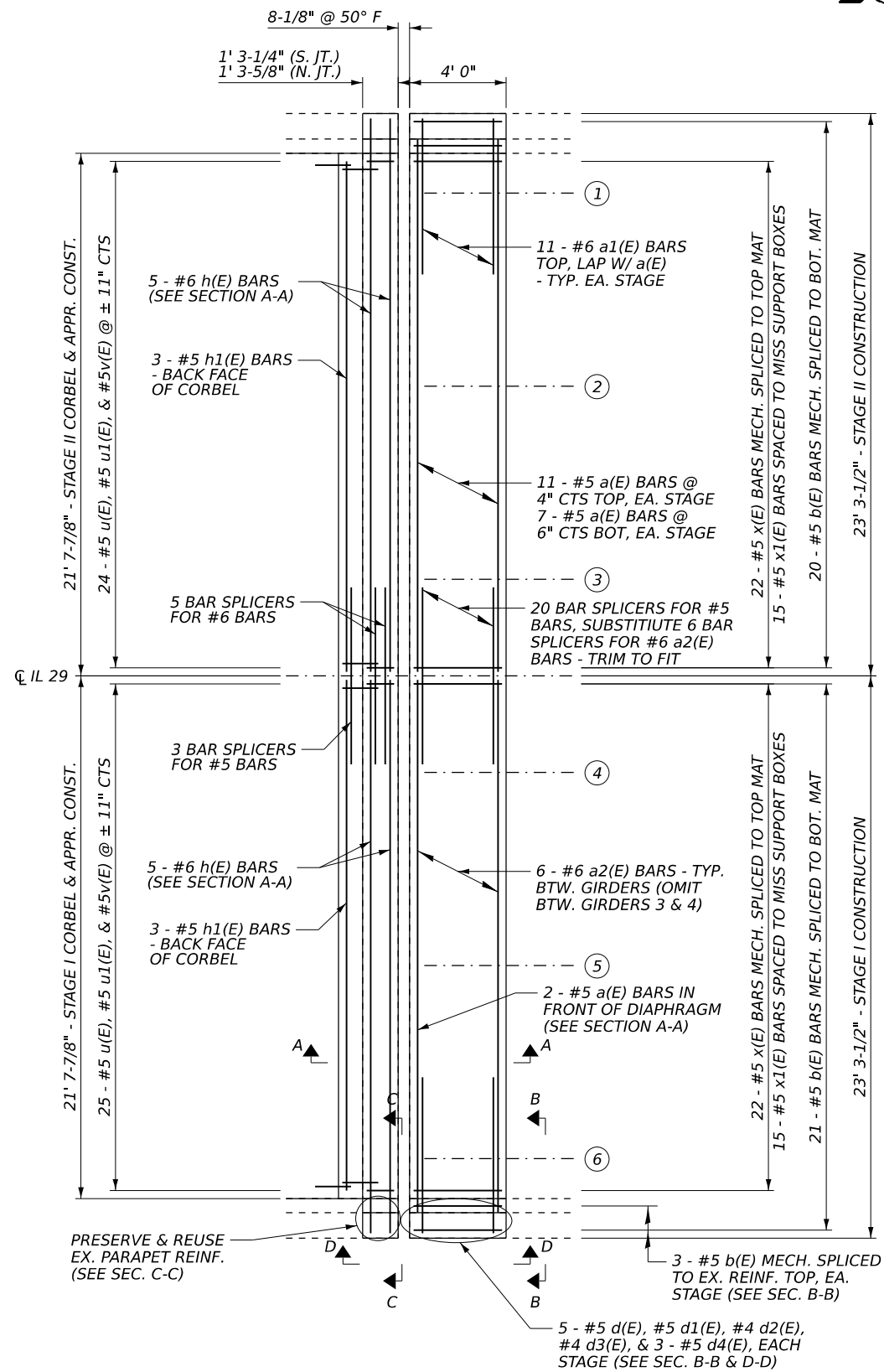
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS
SN 084-0207

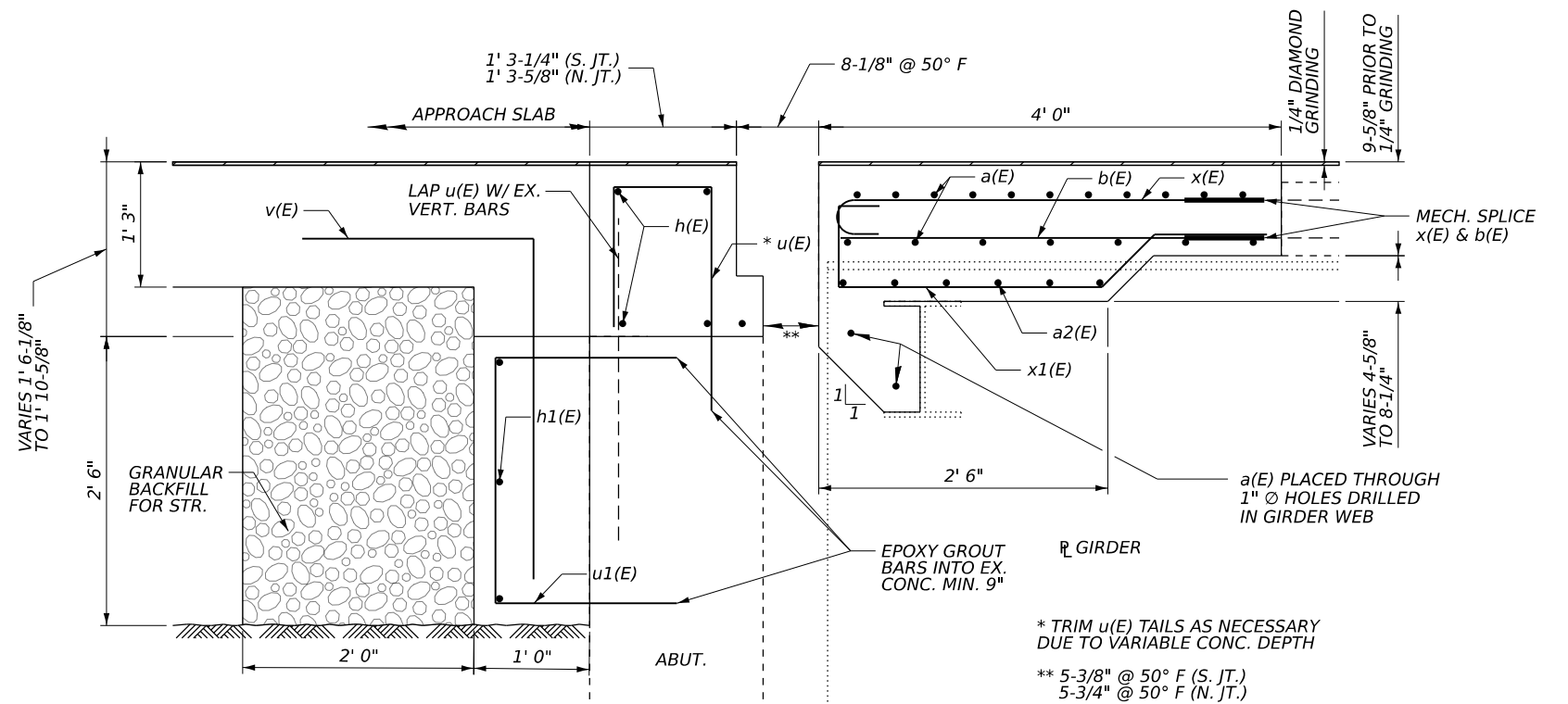
SCALE: SHEET 2 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	30
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				

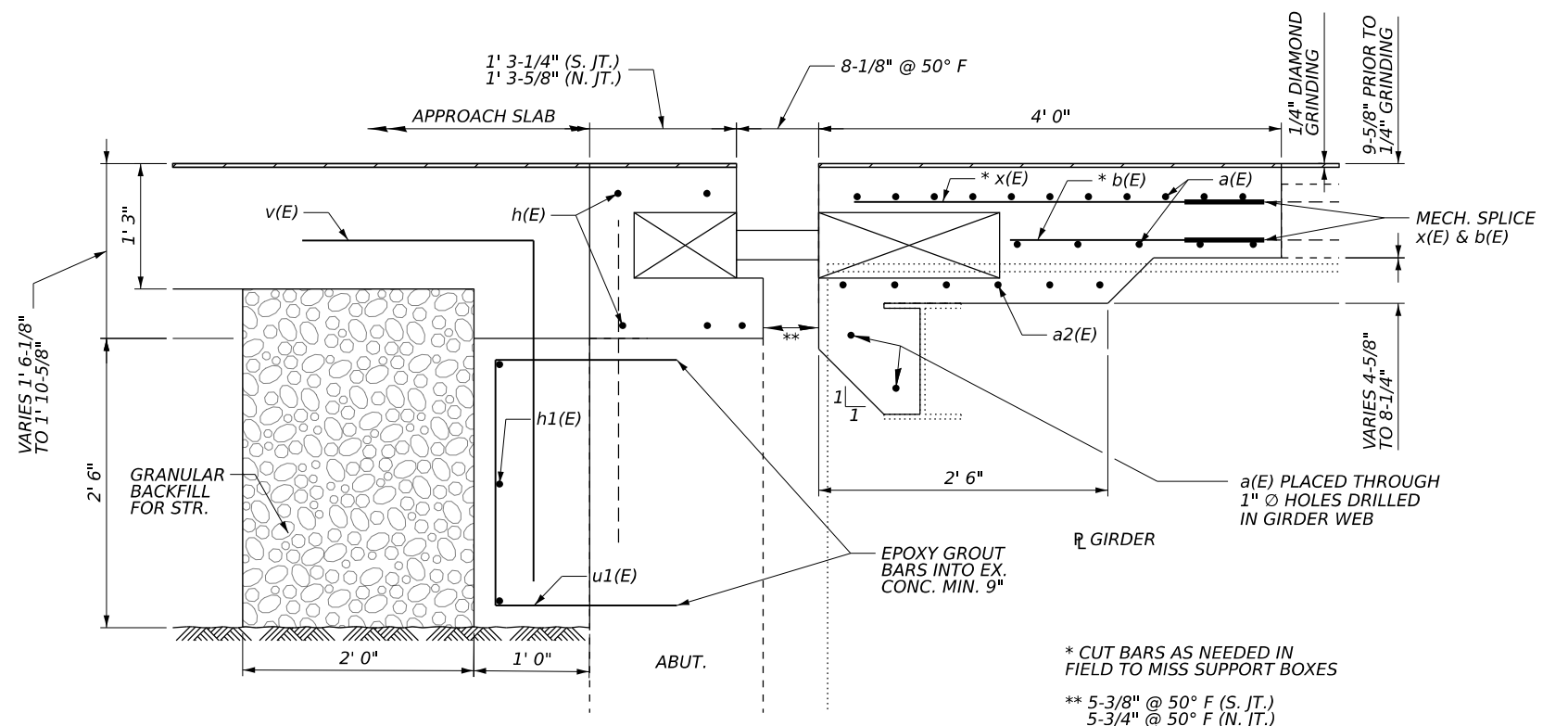
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JOINT PLAN
(SOUTH JOINT SHOWN - NORTH SIMILAR)



SECTION A-A
(BETWEEN SUPPORT BOXES)



SECTION A-A
(AT SUPPORT BOXES)

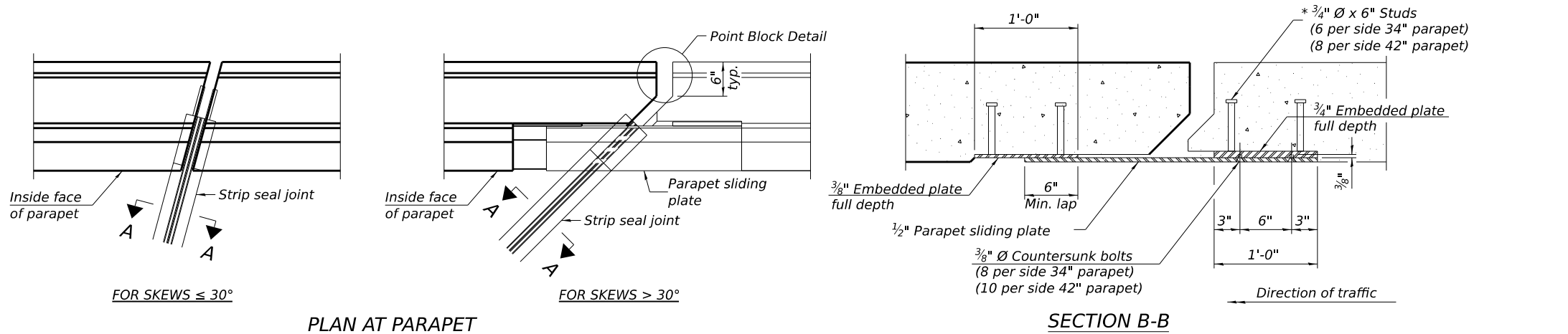
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	CHECKED -	REVISED -
PLOT DATE = 5/8/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT DETAILS
SN 084-0207

SCALE: SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	31
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

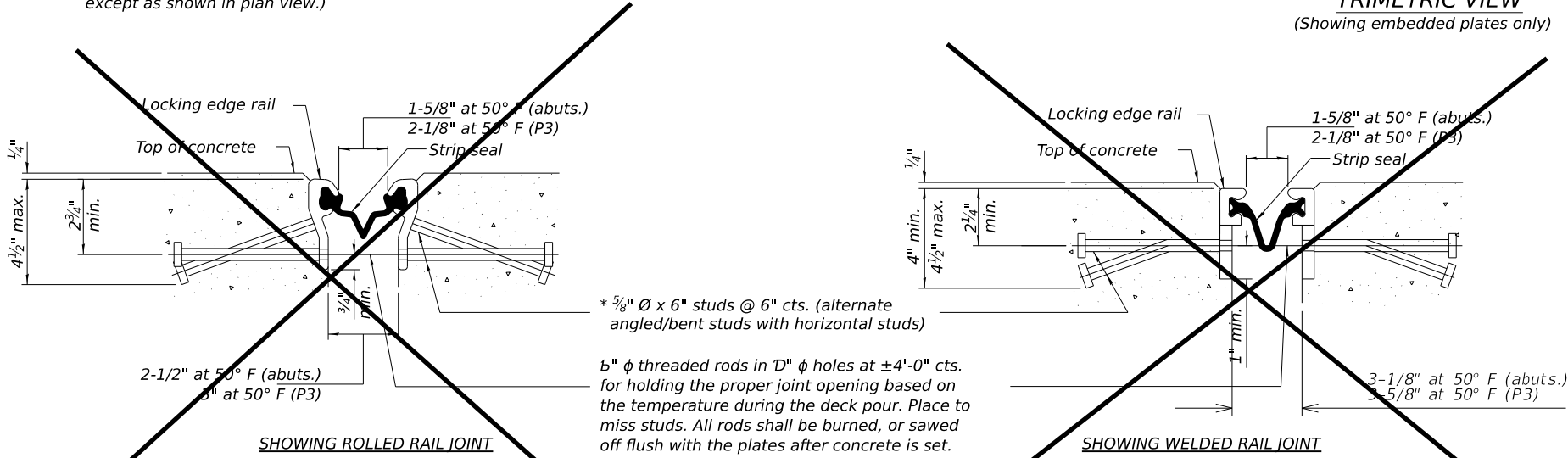
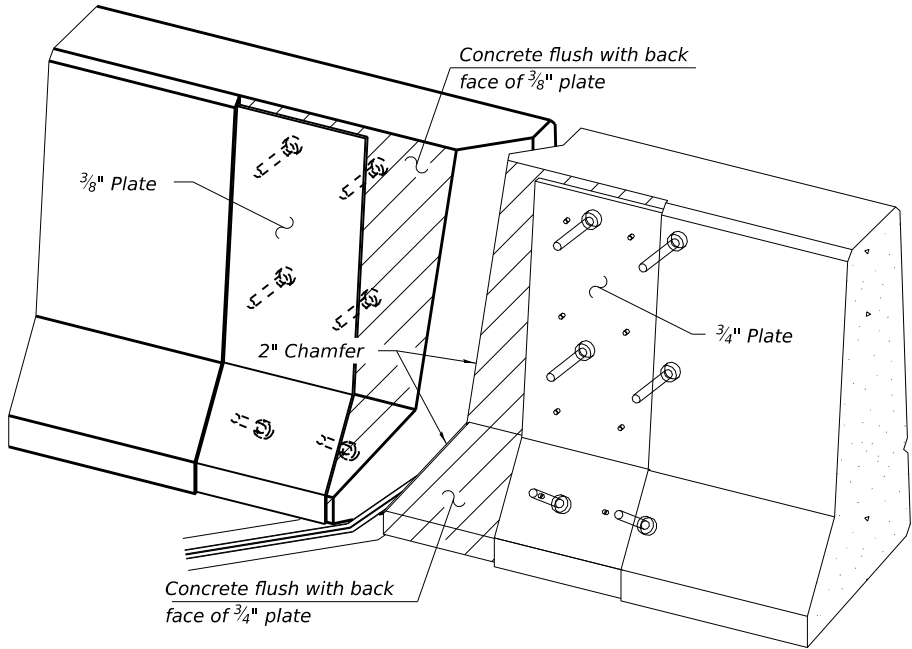
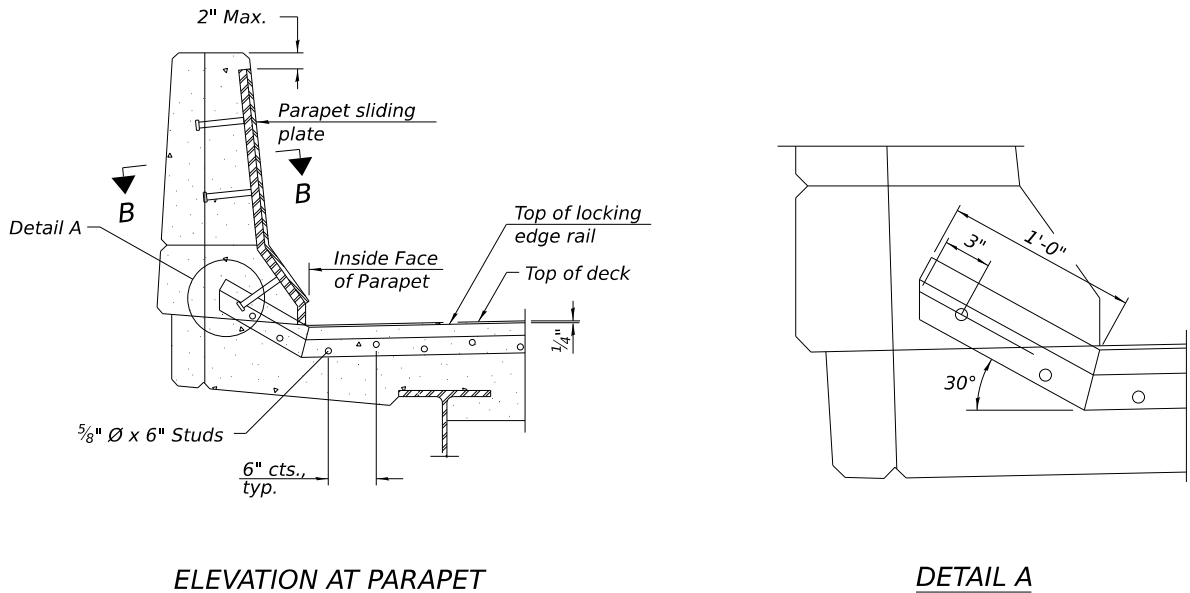
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted.

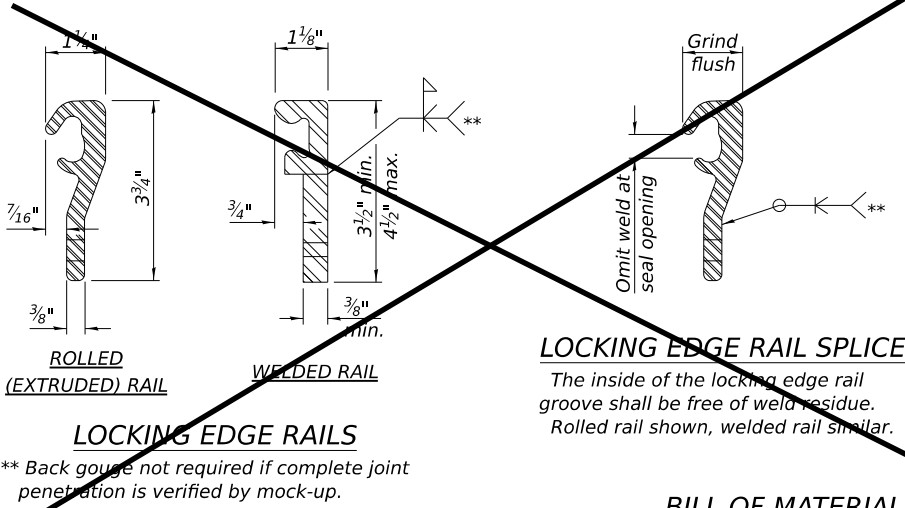
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



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

6" $\varnothing$ threaded rods in 1" $\varnothing$ 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.

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



BILL OF MATERIAL		
Item	Unit	Total
Preformed Joint Strip Seal	Foot	X X

EJ-SS

8-11-17

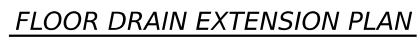
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PLOT DATE	= 5/8/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET SLIDING PLATE DETAILS
SN 084-0207

SCALE: SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	33
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



- A MINIMUM OF 2 HOSE CLAMPS AND 2 BOLTS SHALL BE USED TO FASTEN EACH FLOOR DRAIN EXTENSION.
- DRILLING INTO EXISTING FLOOR DRAINS WILL NOT BE PERMITTED.
- THE OVERLAPPED PORTION OF THE RUBBER SLEEVE SHALL FACE AWAY FROM THE GIRDERS.

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/8/2026	DATE -	REVISED -

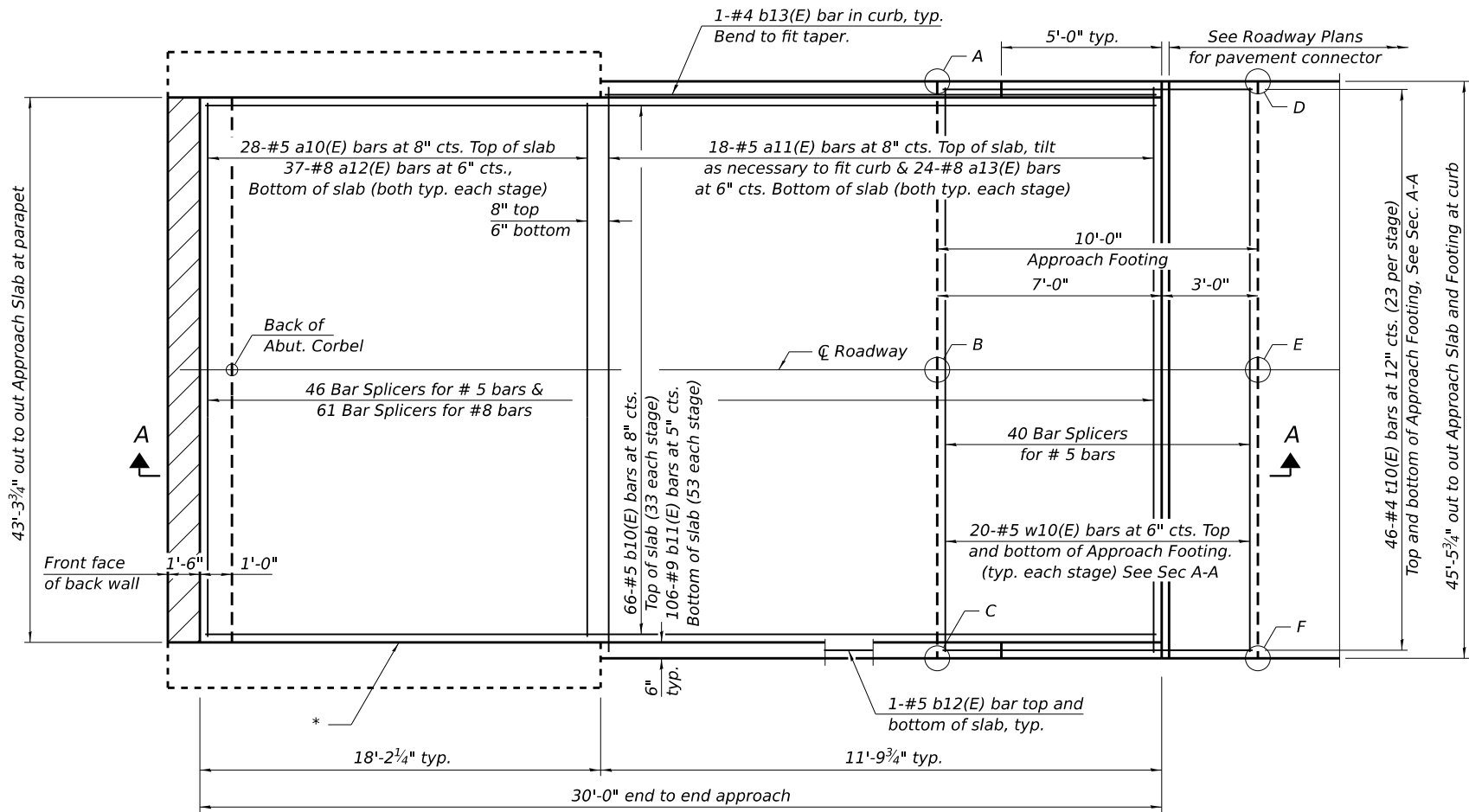
FLOOR DRAIN EXTENSIONS

SN 084-0207

SCALE:	SHEET 6	OF 14	SHEETS	STA.	TO STA.
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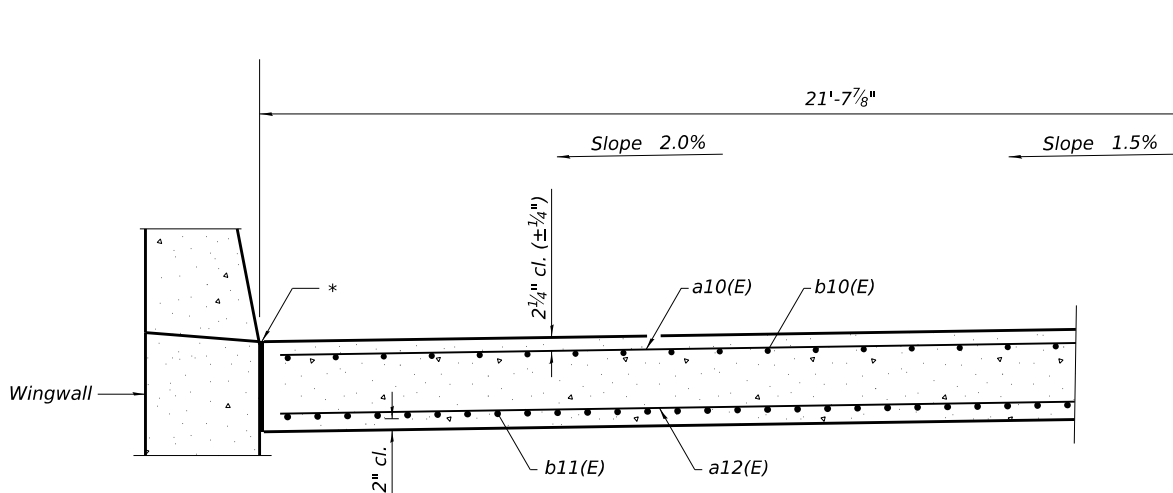
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	34
		CONTRACT NO. 72222		
ILLINOIS		FED. AID PROJECT		

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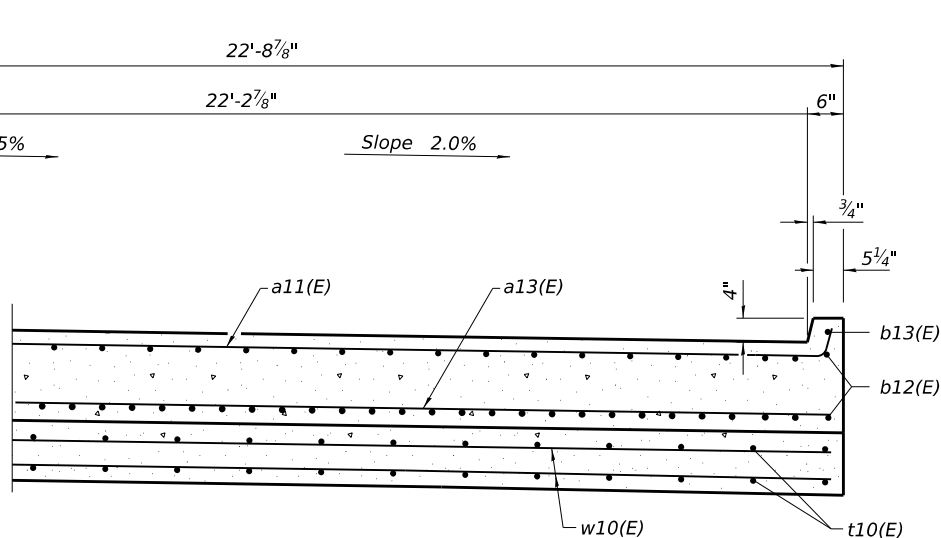
PLAN

(North approach slab shown; South approach slab similar by 180° rotation)



NEAR ABUTMENT

CROSS SECTION
(Looking North)



AT APPROACH FOOTING

Notes:
The approach finish grade elevations shall match those of the proposed bridge deck overlay at the abutments. Finish grade elevations at the end of the approaches shall match the existing adjacent pavement elevations, plus 2" (prior to diamond grinding).

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

Approach			Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A -			A -		
B -			B -		
C -			C -		
D -			D -		
E -			E -		
F -			F -		

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

BASA-CIP-3944CS-0

4-4-2025

(Sheet 1 of 2)

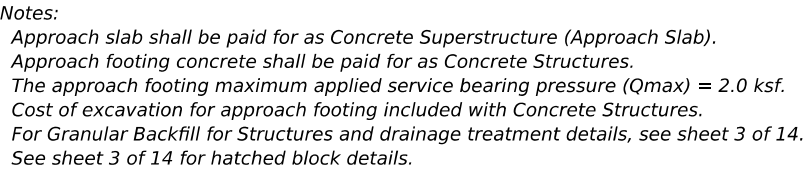
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

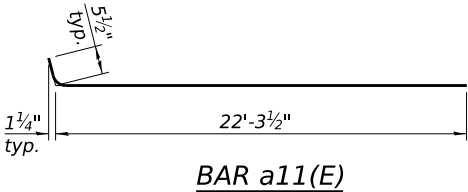
BRIDGE APPROACH SLAB DETAILS
SN 084-0207

SCALE: SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	35
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				

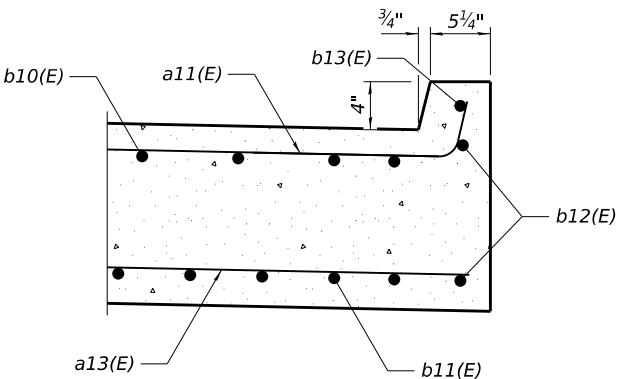


SECTION A-A



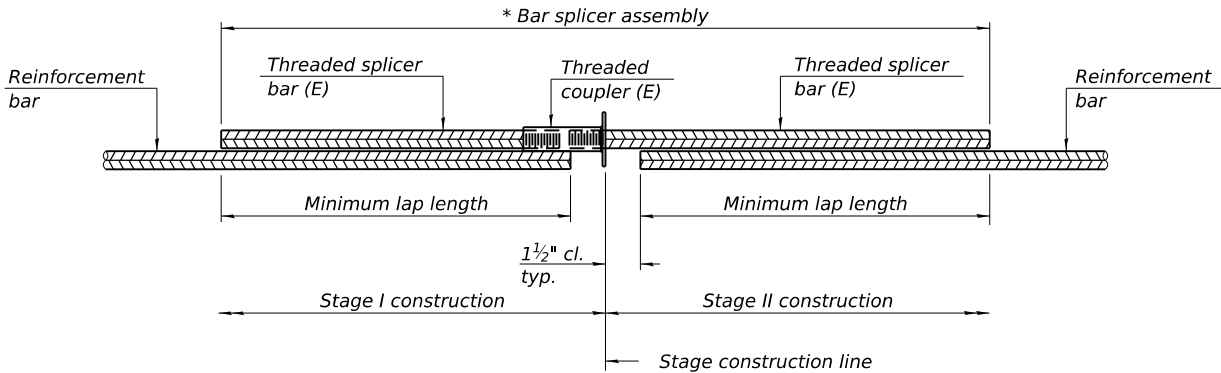
DETAIL A

(Detail A shown, applies to Highway Standard 420401 only.
Detail A for pavement connector (HMA) may be found on
Highway Standard 420406.)



SECTION B-B

<i>Bar</i>	<i>No.</i>	<i>Size</i>	<i>Length</i>	<i>Shape</i>
<i>a10(E)</i>	<i>112</i>	<i>#5</i>	<i>21'-4"</i>	
<i>a11(E)</i>	<i>72</i>	<i>#5</i>	<i>22'-9"</i>	
<i>a12(E)</i>	<i>148</i>	<i>#8</i>	<i>21'-4"</i>	
<i>a13(E)</i>	<i>96</i>	<i>#8</i>	<i>22'-5"</i>	
<i>b10(E)</i>	<i>132</i>	<i>#5</i>	<i>29'-8"</i>	
<i>b11(E)</i>	<i>212</i>	<i>#9</i>	<i>29'-8"</i>	
<i>b12(E)</i>	<i>8</i>	<i>#5</i>	<i>11'-6"</i>	
<i>b13(E)</i>	<i>4</i>	<i>#4</i>	<i>11'-6"</i>	
<i>t10(E)</i>	<i>92</i>	<i>#4</i>	<i>9'-8"</i>	
<i>w10(E)</i>	<i>80</i>	<i>#5</i>	<i>22'-5"</i>	
<i>Concrete Superstructure (Approach Slab)</i>			<i>Cu. Yd.</i>	<i>123.0</i>
<i>Concrete Structures</i>			<i>Cu. Yd.</i>	<i>28.1</i>
<i>Reinforcement Bars, Epoxy Coated</i>			<i>Pound</i>	<i>46,440</i>
<i>Bar Splicers</i>			<i>Each</i>	<i>294</i>



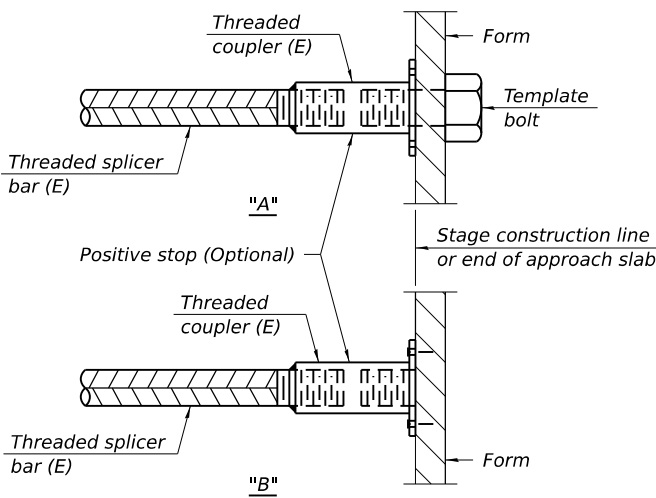
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + thread length

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

Location	Bar size	No. assemblies required	Minimum lap length
Abut. Jts. (deck)	#5	40	3'-6"
Abut. Jts. (deck)	#6	12	4'-0"
Abut. Jts. (appr.)	#5	6	3'-6"
Abut. Jts. (appr.)	#6	10	4'-0"
Appr. Slab top mat	#5	92	3'-6"
Appr. Slab bot. mat	#8	122	4'-9"
Appr. footing slabs	#5	80	3'-6"

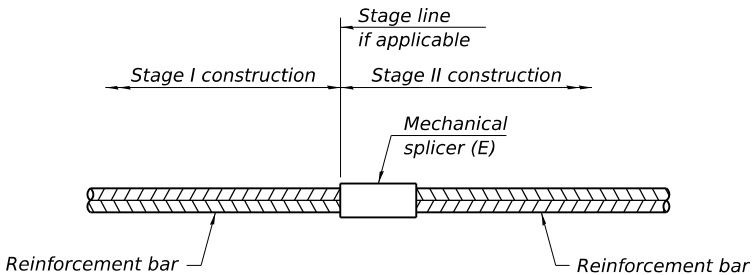


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

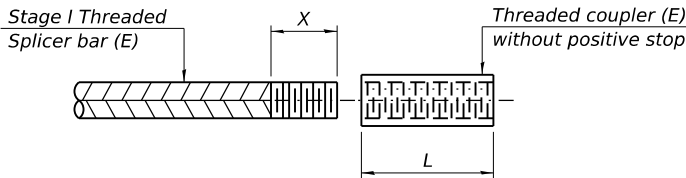
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Abut. Jts.	#5	182



THREADING OF ASSEMBLIES

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

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

BSD-1

4-4-2025

MODEL: bridge-8 [Sheet]
FILE NAME: c:\ppl_work\pwork\duddley\mtd1192910\72222_plansheet.dgn

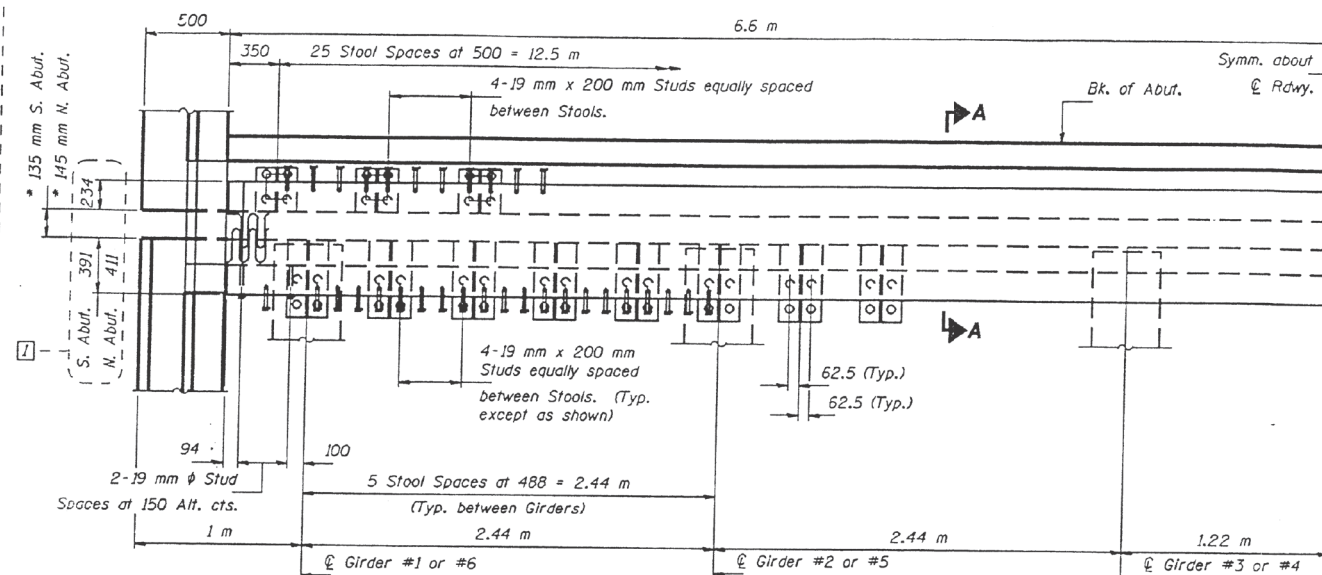
USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 5/8/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
SN 084-0207

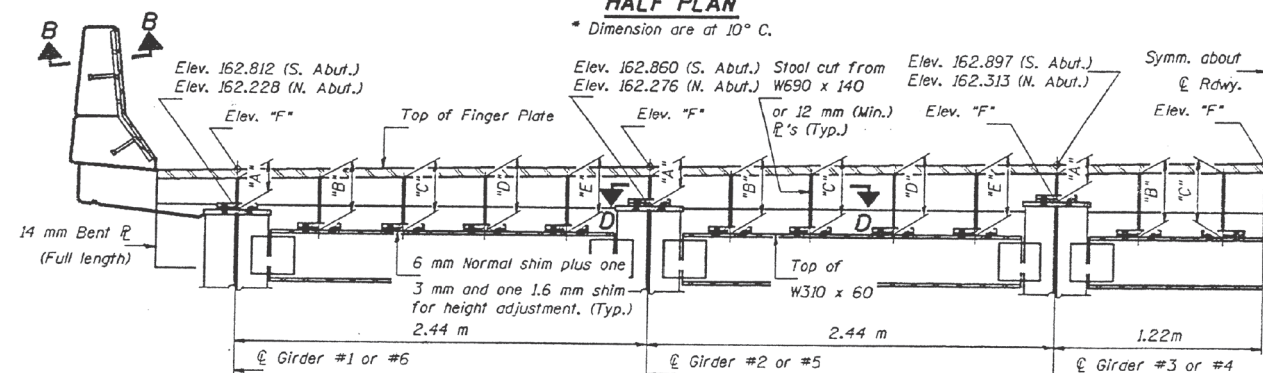
SCALE: SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	37
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				



HALF PLAN

* Dimension are at 10° C.

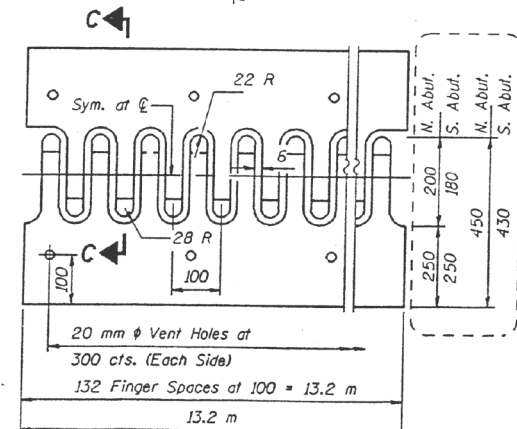


HALF ELEVATION

ELEVATION "F"

Location Girders	Elevation S. Abut.	Elevation N. Abut.
Girder #1 & #6	163.027	163.443
Girder #2 & #5	163.075	163.491
Girder #3 & #4	163.112	163.528
Rdwy. & P.G.	163.131	163.547

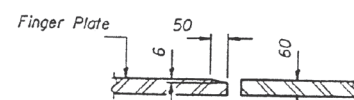
Notes: Work this sheet with sheet #13 of 30.
Expansion device shall be fabricated to fit the slope of the roadway.
Structural Steel portion of the expansion device is included in quantity for "Structural Steel".



FINGER CUTTING DIAGRAM

SECTION A-A

* Dimension are at 10° C



SECTION C-C

Technical drawing of a beam-to-column connection showing top and side views with dimensions and reinforcement details.

Top View Dimensions:

- Overall width: 585
- Overall depth: 19 mm $\phi \times$
- Distance from left edge to first vertical reinforcement line: 285
- Distance between vertical reinforcement lines: 295
- Distance from right edge to last vertical reinforcement line: 150 Studs
- Horizontal distance from left edge to center of first vertical reinforcement: 75
- Horizontal distance between centers of vertical reinforcement: 135
- Horizontal distance from center of last vertical reinforcement to right edge: 75
- Horizontal distance from left edge to center of first horizontal reinforcement: 50
- Horizontal distance between centers of horizontal reinforcement: 200
- Horizontal distance from center of last horizontal reinforcement to right edge: 50
- Horizontal distance from left edge to center of first horizontal reinforcement: 145
- Horizontal distance between centers of horizontal reinforcement: 135
- Horizontal distance from center of last horizontal reinforcement to right edge: 145
- Horizontal distance from left edge to center of first horizontal reinforcement: 14 mm ϕ
- Horizontal distance between centers of horizontal reinforcement: 20 mm ϕ
- Horizontal distance from center of last horizontal reinforcement to right edge: 75
- Horizontal distance between centers of horizontal reinforcement: 150
- Horizontal distance from center of last horizontal reinforcement to right edge: 75
- Horizontal distance from left edge to center of first horizontal reinforcement: 14 mm ϕ
- Horizontal distance between centers of horizontal reinforcement: 20 mm ϕ
- Horizontal distance from center of last horizontal reinforcement to right edge: 75
- Horizontal distance between centers of horizontal reinforcement: 150
- Horizontal distance from center of last horizontal reinforcement to right edge: 75

Reinforcement Details:

- S. Abut. (Stirrups) at 135
- N. Abut. (Nails) at 145
- 25 mm ϕ (Reinforcement bar)
- 14 mm ϕ (Reinforcement bar)
- 20 mm ϕ (Reinforcement bar)
- Countersunk 20 mm ϕ
- Bolts at ± 300 cts.

SECTION B-B

Expansion plates at parapets shall be galvanized in accordance with A.S.T.M. A153.

1 Revised 10/1/96 JFS

S.N. 084-0207

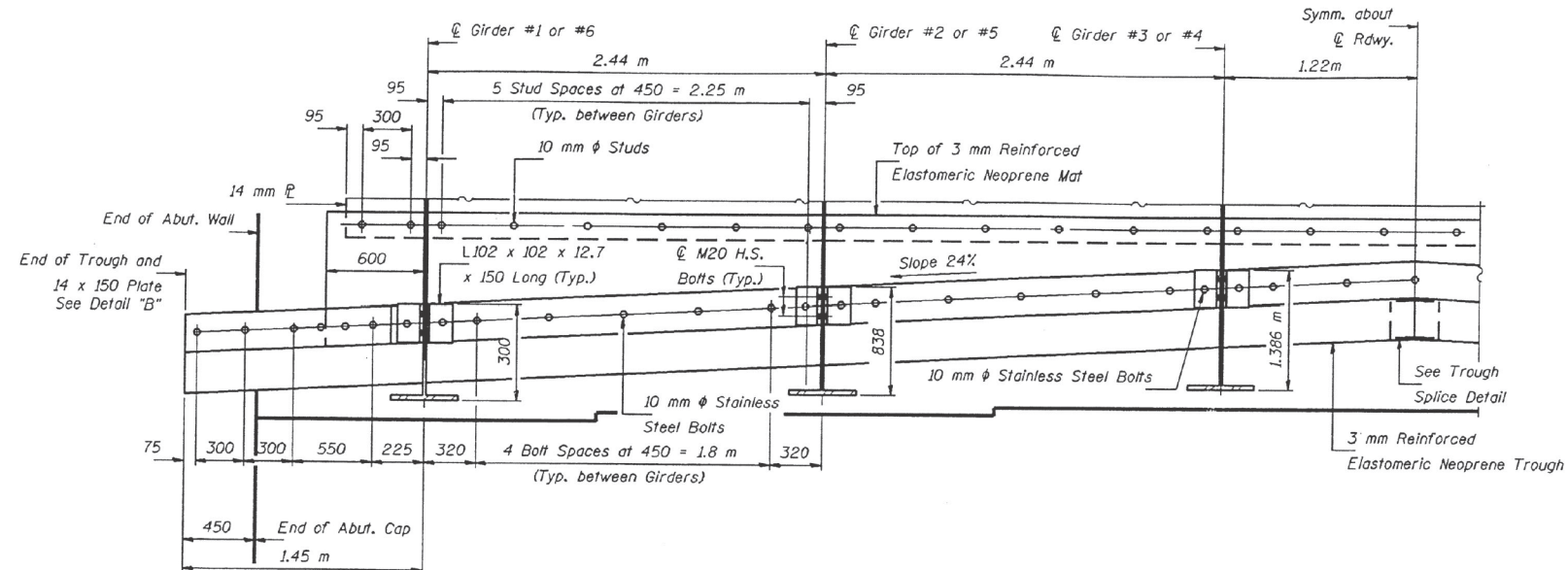
DESIGNED	Jayson F. Delahunt
CHECKED	Victor H. Vel
DRAWN	SHANE SUMMER
CHECKED	JES 1/14/00

July 8 1966
EXAMINED *Ernest J. Kasper*
ENGINEER OF MECHANICAL DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

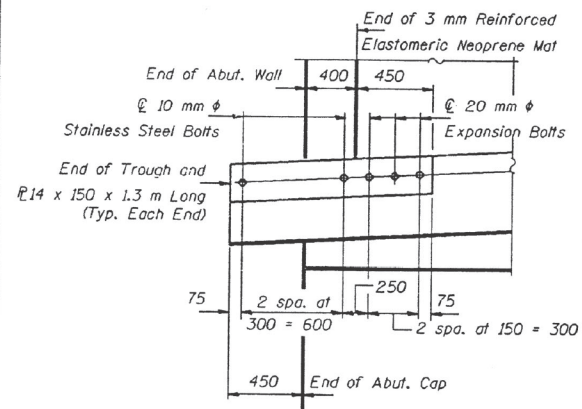
MODEL: bridge-10 (Steel)
FILE NAME: c:\pwworking\brandon.dudley\mtd1192910\72222 plansheet.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.P. 658	102(B-3)	SANGAMON	30	13
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		



HALF ELEVATION - SHOWING TROUGH

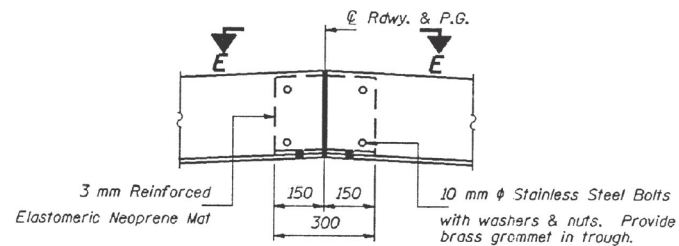


DETAIL "B"

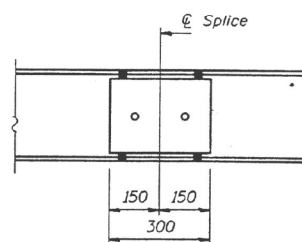
Notes: Work this sheet with sheet #12 of 30.
Expansion device shall be fabricated to fit the slope of the roadway.
Structural Steel portion of the expansion device is included in quantity for "Structural Steel".

DESIGNED	James F. Lutz
CHECKED	Victor H. Veliz
DRAWN	SHANE SUMNER
CHECKED	JFS VHV

July 8 1996
EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES



TROUGH SPLICE DETAIL

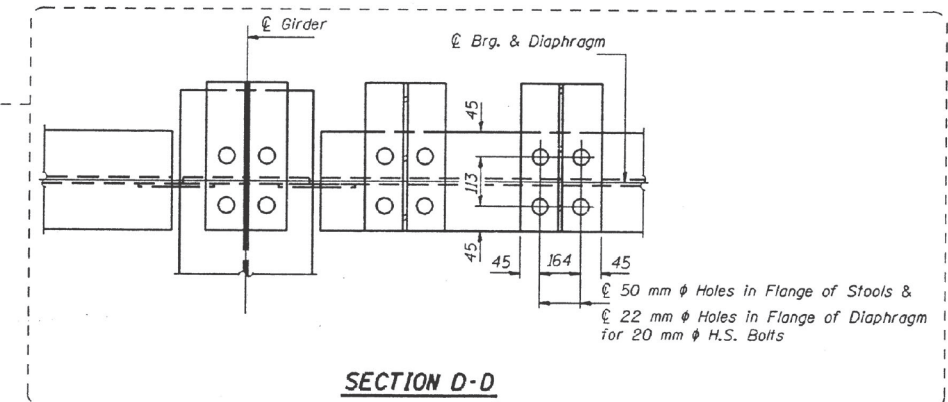


VIEW E-E

STOOL HEIGHTS

Between Girders	Location	"A"	"B"	"C"	"D"	"E"
Girder #1 & #2	149	254	264	274	284	
Girder #2 & #3	149	299	306	313	321	
Girder #3 & #4	149	336	343	343	336	
Girder #4 & #5	149	321	313	306	299	
Girder #5 & #6	149	284	274	264	254	

Heights shown are at bearing and diaphragms (and does not include 6 mm normal shims).
Stool heights "A", "B", "C", "D" and "E" are located in order as shown in half elevation on sheet 12 of 30.



SECTION D-D

EXPANSION JOINT
F.A.P. ROUTE 658 - SEC. 102(B-3)
SANGAMON COUNTY
STATION 33+589.55

Revised 10/1/96 JFS

USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
DRAWN	-	REVIS	-	REVIS	-
CHECKED	-	REVIS	-	REVIS	-
PLOT DATE	= 5/8/2026	DATE	-	REVIS	-

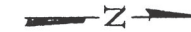
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 084-0207

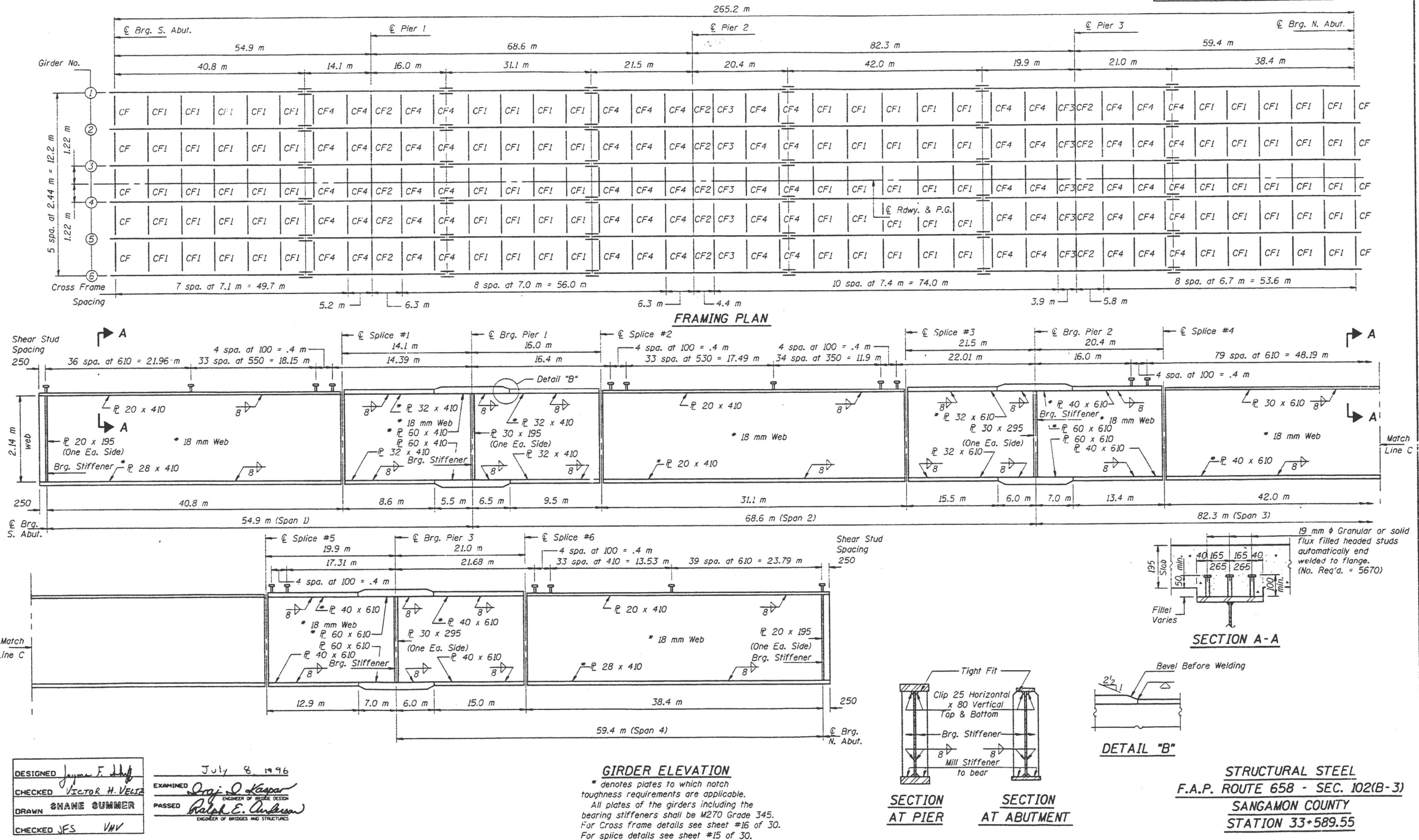
SCALE: SHEET 11 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	39
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 658 102(B-3)	SANGAMON	307	137	30 SHEETS
FED. AID DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/8/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 084-0207

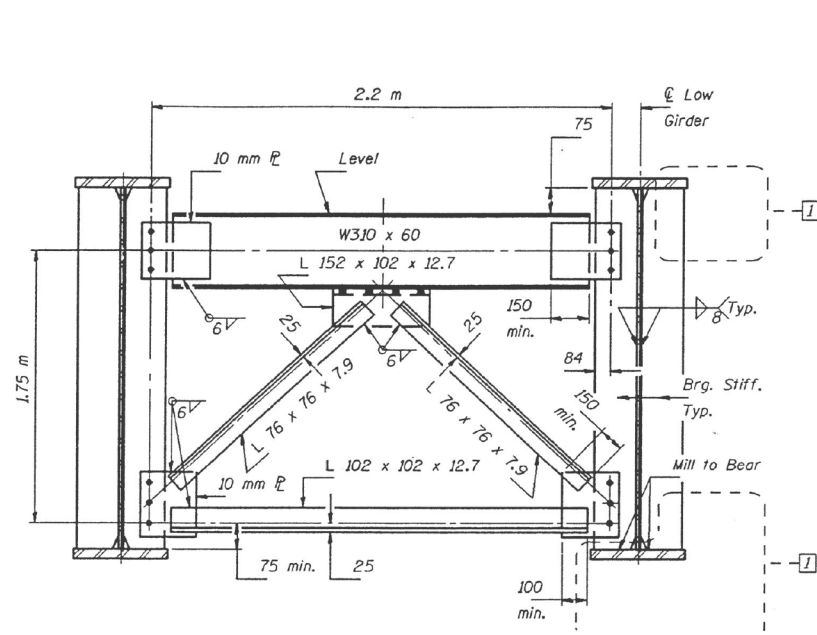
SCALE: SHEET 12 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	40
				CONTRACT NO. 72222

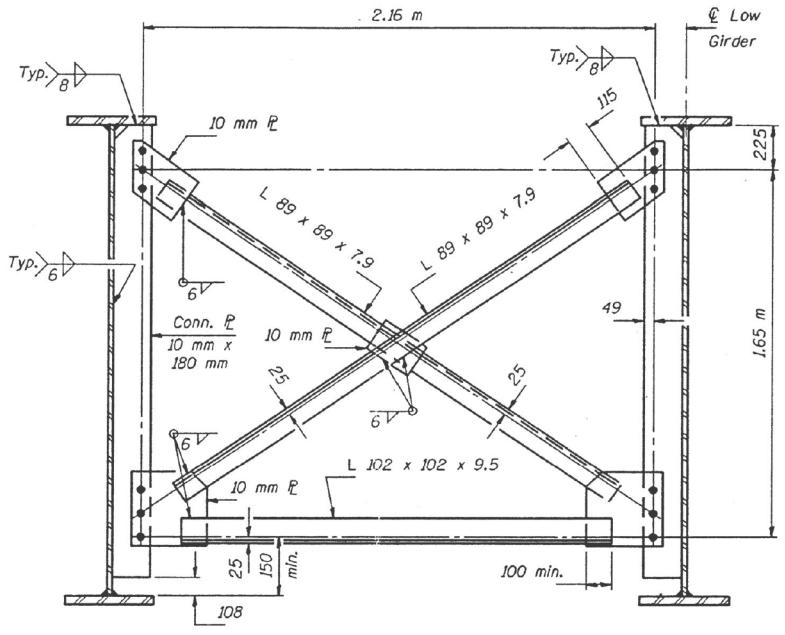
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

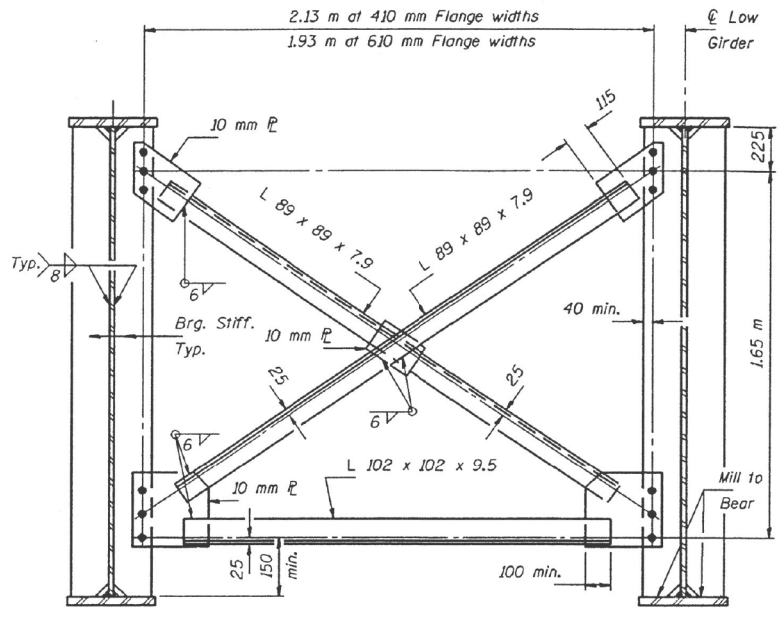
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO. 16
F.A.P. 658	102(B-3)	SANGAMON		30 SHEETS
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



CROSS FRAME CF
(No. Req'd = 10)



CROSS FRAME CF1
(No. Req'd = 95)

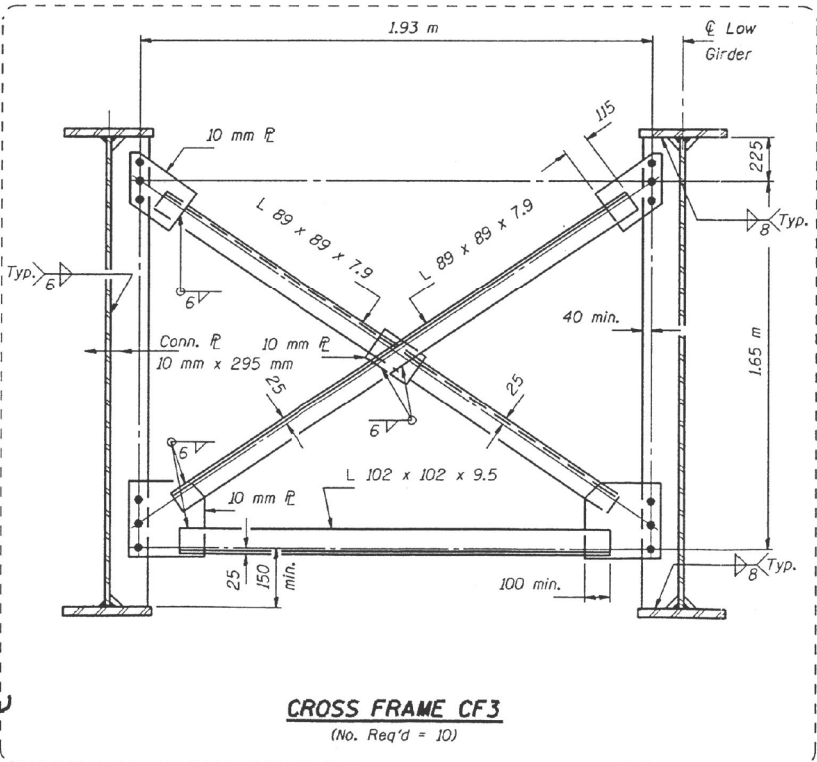


CROSS FRAME CF2
(No. Req'd = 15)

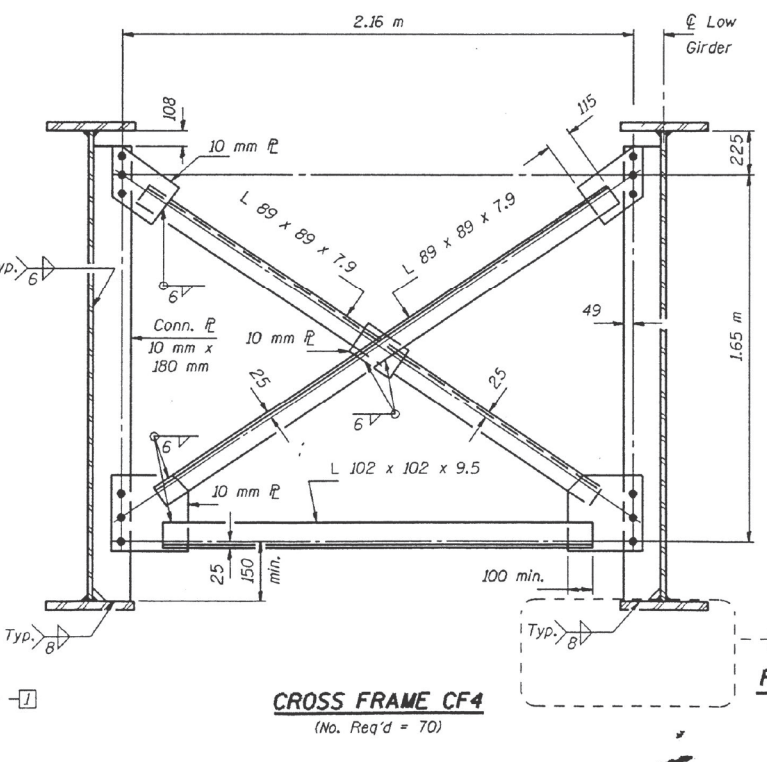
Notes:
28 mm ϕ holes for all M22 H.S. bolts.
Two hardened washers shall be required
over all oversized holes.
All dimensions are in millimeters (mm)
except as noted.

DESIGNED	John F. Hill
CHECKED	Dr. H. H. Veliz
DRAWN	SHANE SUMNER
CHECKED	JFS

EXAMINED	July 8 1996
PASSED	Ralph E. Anderson



CROSS FRAME CF3
(No. Req'd = 10)



CROSS FRAME CF4
(No. Req'd = 70)

STRUCTURAL STEEL
F.A.P. ROUTE 658 - SEC. 102(B-3)
SANGAMON COUNTY
STATION 33+589.55

G-1 (M) 7-1-93

Revised 10/1/96 JFS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 084-0207

SCALE: SHEET 13 OF 14 SHEETS STA. TO STA.

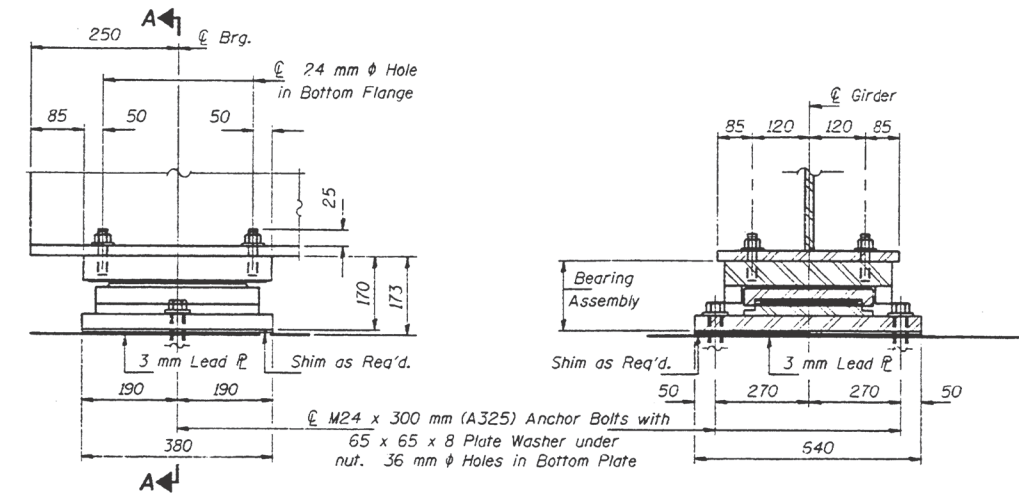
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	41
CONTRACT NO. 72222				
ILLINOIS FED. AID PROJECT				

MODEL: bridge-12 (Steel)
FILE NAME: c:\pw\work\tdudley\cm1192910\72222 plansheet.dgn

MODEL: bridge-13 (Sheet)
FILE NAME: c:\pwwork\brd\du\dudley\m1192910\72222 plansheet.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

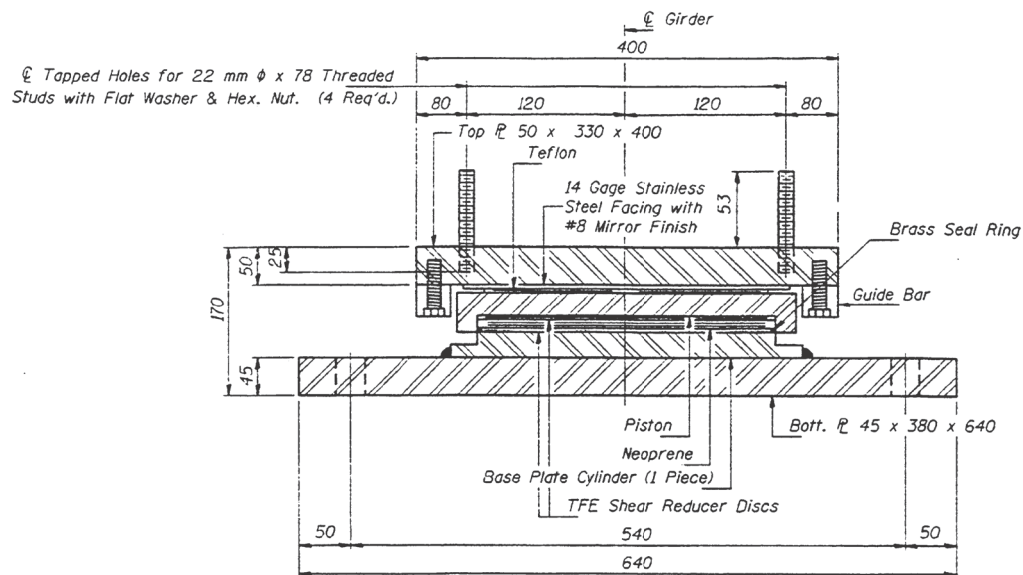
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO.
F.A.P. 658	102(B-3)	SANGAMON	307	140	30 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. ROAD PROJECT			



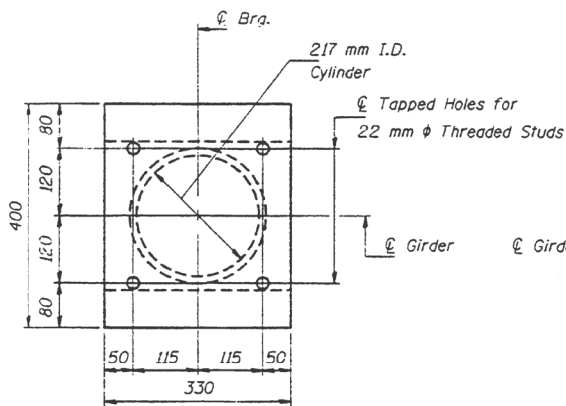
ELEVATION AT ABUTMENTS

SECTION A-A

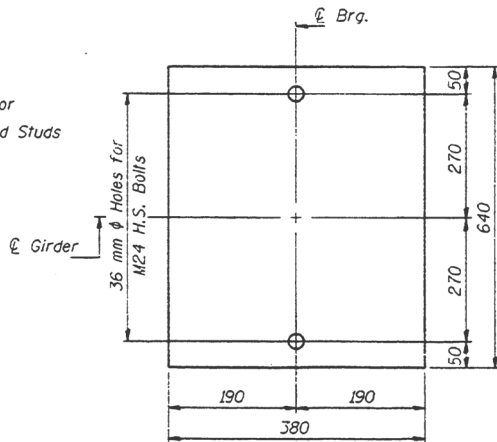
EXPANSION FLOATING BEARING
(12 Required)



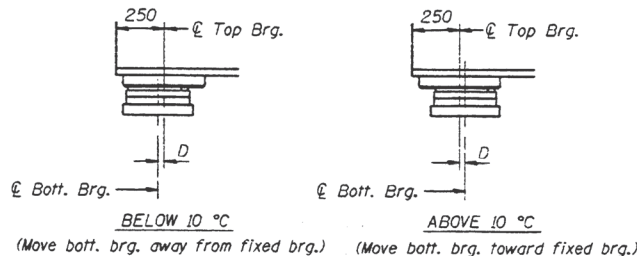
EXPANSION BEARING ASSEMBLY



TOP BRG. ϕ PLAN



BOTT. BRG. ϕ PLAN



SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1 mm per each 10 m of expansion for every 8 $^{\circ}$ C temp. change from the normal temp. of 10 $^{\circ}$ C.

DESIGNED	James E. Hoff
CHECKED	Victor H. Velaz
DRAWN	SHANE SUMMER
CHECKED	JFS VHV

EXAMINED	July 8, 1996
PASSED	Ralph E. Anderson

SO. ABUT.

BEARING DATA	
R ϕ (KN)	442
R ϕ (KN)	261
R ϕ MP (KN)	43
R ϕ + ϕ +1 (KN)	746
Lateral Load (KN)	89
Expansion Length	123.5 m

NO. ABUT.

BEARING DATA	
R ϕ (KN)	439
R ϕ (KN)	268
R ϕ MP (KN)	42
R ϕ + ϕ +1 (KN)	749
Lateral Load (KN)	88
Expansion Length	141.7 m

Notes: All plates of the Bearing Assembly shall be AASHTO M270, Grade 345. For Anchor Bolt installation details see sheet #20 of 30. Provide 2-3 x 380 x 640 adjusting shims per Bearing. Quantity included with "Structural Steel."

BILL OF MATERIAL

Item	Unit	Total
Floating Bearings, Guided Expansion 750 KN	Each	12

ABUT. EXPANSION BEARING DETAILS
F.A.P. ROUTE 658 - SEC. 102(B-3)
SANGAMON COUNTY
STATION 33+589.55

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 5/8/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)
SN 084-0207

SCALE: SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102B-3)BDR,BJR	SANGAMON	42	42
				CONTRACT NO. 72222
		ILLINOIS	FED. AID PROJECT	