

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 322/SBI 2 (US ROUTE 51)

SECTION (24,25)RS-3

PROJECT NHF-0322(095)

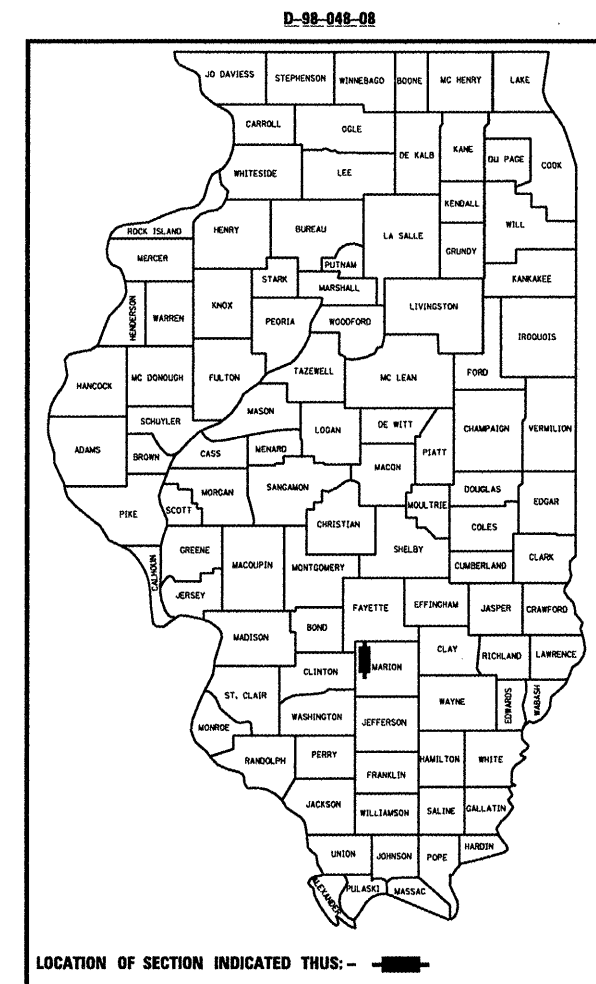
RESURFACING FROM
FAYETTE COUNTY LINE TO
KINOKA ROAD

MARION COUNTY

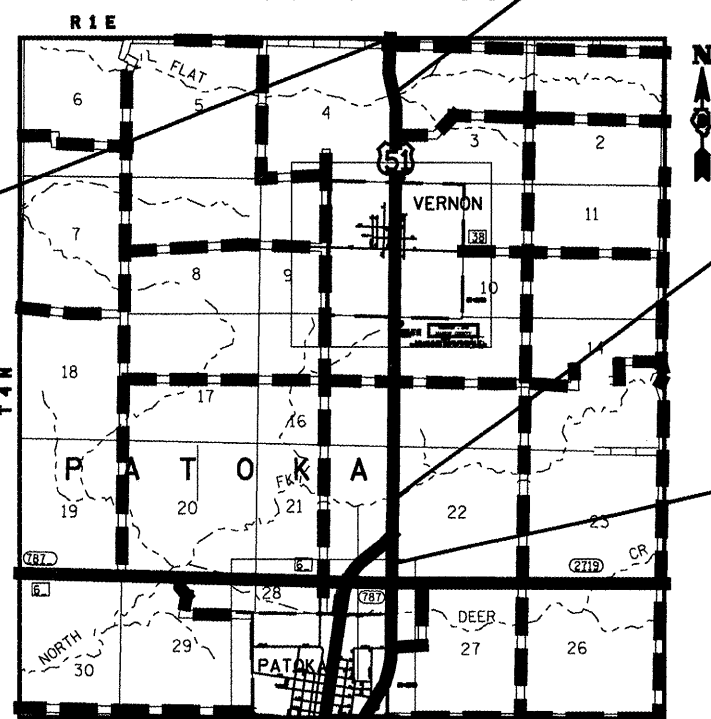
C-98-044-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24,25)RS-3	MARION	27	1
ILLINOIS		CONTRACT NO. 76B76		

FOR INDEX OF SHEETS, SEE SHEET NO. 2



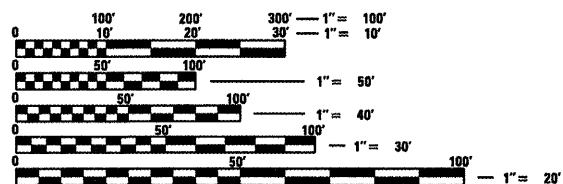
BEGIN PROJECT:
STA. 502 + 50
LAT: 38.823677
LONG: -89.088051



BRIDGE OMISSION:
SN 061-0001
STA. 522 + 75
TO
STA 524 + 95

BRIDGE OMISSION:
SN 061-0094
STA 684 + 70
TO
STA. 691 + 05

END PROJECT:
STA. 709 + 00
LAT: 38.765054
LONG: -89.086753



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 TIM PADGETT (618)346-3325
PROJECT MANAGER JOHN RICHARDSON (618)346-3194
& LINCOLN HILL (618)346-3194

CONTRACT NO. 76B76

ADT
ADT: 3000(2011)
ADT: 3500(2031)
SU%: 5.1%
MU%: 10.2%

1" = 1 MILE
GROSS LENGTH = 20,650 FT. = 3,911 MILE
NET LENGTH = 19,795 FT. = 3,749 MILE

FUNCTIONAL CLASSIFICATION:
OTHER PRINCIPAL ARTERIAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 4, 20 11
Mark C. James
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 05, 20 11
Scott E. Stitt, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 25, 20 11
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

1. EXCESS BITUMEN REMOVAL SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
2. MIXTURES FOR JOINTS, CRACKS, AND FLANGWAYS SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
3. THE USE OF VIBRATORY ROLLERS IS PROHIBITED IN RESIDENTIAL AREAS. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE BITUMINOUS PAVEMENTS AS SPECIFIED IN THE APPROPRIATE SECTIONS OF THE STANDARD SPECIFICATIONS.
4. THE OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE. A CONCENTRIC DRAINAGE STRUCTURE WAS USED TO CALCULATE THIS DISTANCE.
5. THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
6. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - AMEREN ILLINOIS, GAS & ELECTRIC
 - AT&T ILLINOIS
 - CLEARVISION CABLE SYSTEMS, INC.
 - FMC WATER COMPANY
 - FRONTIER NORTH, INC.
 - SOUTHWESTERN ELECTRIC COOPERATIVE, INC.
 - VILLAGE OF VERNON, WATER
- MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY *. NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
7. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:
8. ALL TEMPORARY PAVEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
9. HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR ALL PCC PATCHING.
10. ALL PATCHING ON THIS PROJECT SHALL BE COMPLETED PRIOR TO BITUMINOUS SURFACE REMOVAL.
11. CONFLICTS ON THE PLANS MAY OCCUR BETWEEN THE ROADWAY PLANS AND RIGHT-OF-WAY PLANS. THE RIGHT-OF-WAY PLANS SHALL TAKE PRECEDENCE IN CONFLICTS IN RIGHT-OF-WAY OR EASEMENTS. THE ROADWAY PLANS SHALL TAKE PRECEDENCE IN ITEMS FOR CONSTRUCTION.
12. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE.
13. THE CONTRACTOR SHALL BE AWARE THAT THERE ARE MANHOLES & VALVES LOCATED WITHIN THE RESURFACING LIMITS. CARE SHALL BE TAKEN IN THESE LOCATIONS DURING MILLING OPERATIONS.
14. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

TRAFFIC CONTROL

1. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
2. ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.
3. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE.

IF AT ANY POINT IN PROJECT IMPLEMENTATION OR OPERATION A COMMITMENT WILL BE AFFECTED BY SUBSEQUENT PROJECT DECISIONS OR COMMITMENTS, THE AFFECTED PARTIES, WHICH INCLUDES ALL DEPARTMENT PERSONNEL, WILL BE NOTIFIED AND THEIR COMMENTS WILL BE CONSIDERED PRIOR TO MAKING A FINAL DECISION ON THE ACTION AFFECTING THE EARLIER COMMITMENT. THE PROCEDURES AND THE RESULTS OF THE COORDINATION WITH AFFECTED PARTIES AND THE ULTIMATE DECISION ON THE PROPOSED CHANGE(S) TO THE COMMITMENT SHALL BE DOCUMENTED IN THE COMMITMENT FILE.

COMMITMENTS FOR THIS PROJECT ARE AS FOLLOWS: *NONE*

MIXTURE REQUIREMENTS - SUPERPAVE PROJECT

ROUTE	FAP 322/SBI 2
SECTION	(24,25)RS-3
COUNTY	MARION
CONTRACT	76B76

DESCRIPTION:	3P RESURFACING ON US 51 FROM FAYETTE COUNTY LINE TO 0.2 MILES NORTH OF KINOKA ROAD.
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ADT (Construction Yr)	3000
MU%:	10.2
SU%:	5.1
20 YR. ESAL'S:	1.82

MIXTURE USE	SURFACE	LEVEL BINDER	PATCHING
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.	SEE SPEC.
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION			
(GRADATION MIXTURE)	IL 9.5	IL 9.5	IL 19.0
FRICTION AGG	MIXTURE "C"	MIXTURE "C"	MIXTURE "B"

MIXTURE USE	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	See Contract RAP	See Contract RAP
DESIGN AIR VOIDS	Special Provision	Special Provision
MIX COMPOSITION	**2.0% @ Ndes=30	**2.0% @ Ndes=30
(GRADATION MIXTURE)	NMAS 3/4"	NMAS 1/2"
FRICTION AGG		

** Top Lift Shoulders - Design this mix at 2.0% voids and add asphalt to reduce voids to 1.5%.

Plan quantities for Bituminous Concrete Surface Course items are calculated using a unit weight of 112 lb/sq yd/in (59.8 kg/sq m/25 mm thickness).

HIGHWAY STANDARDS

406201-01	701011-02
442201-03	701201-04
542306-02	701306-03
602301-03	701311-03
604036-02	701336-06
635001-01	701501-06
635006-03	701901-01
635011-02	780001-02
701006-03	781001-03

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, STANDARDS, HMA MIX CHART, AND INDEX OF SHEETS
- 3 SUMMARY OF QUANTITIES
- 4-5 SCHEDULE OF QUANTITIES
- 6-7 TYPICAL SECTIONS
- 8-15 PLAN VIEWS
- 16-23 PAVEMENT MARKINGS PLAN VIEWS
- 24-27 MISCELLANEOUS DETAILS

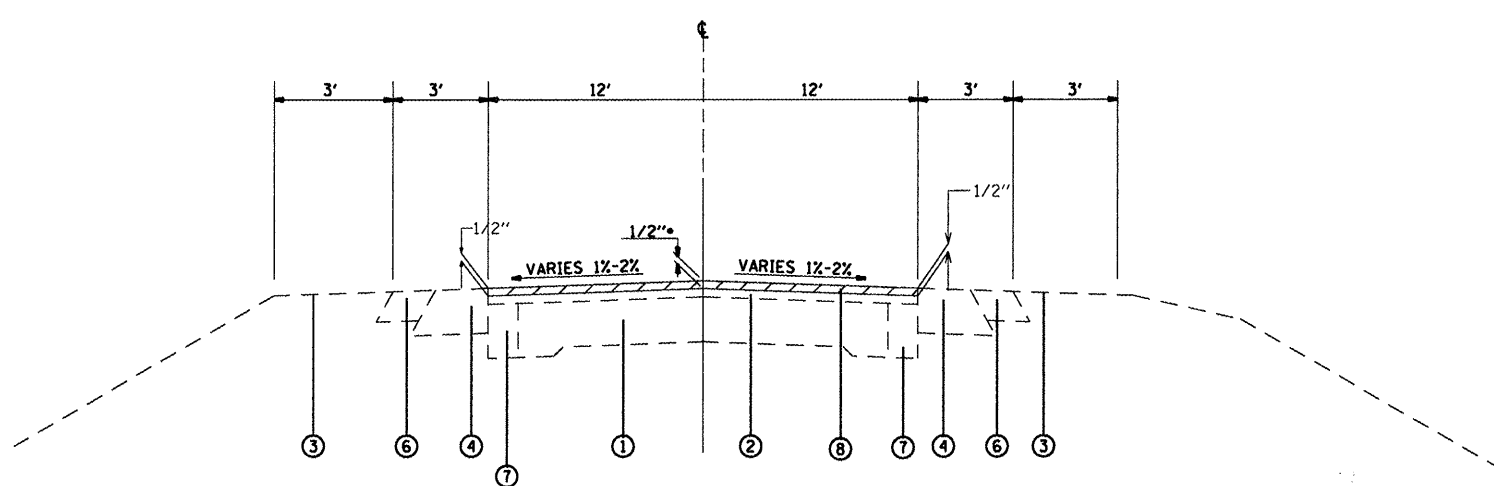
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#FILE#		DRAWN - ---	REVISED - ---			322	(24,25)RS-3	MARION	27	2	
	PLOT SCALE = #SCALE#	CHECKED - ---	REVISED - ---			CONTRACT NO. 76B76					
	PLOT DATE = #DATE#	DATE - -----	REVISED - ---			SCALE: -----	SHEET NO. 2 OF 27 SHEETS	STA. ----- TO STA. -----	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0005 80% FED. 20% STATE	0005 80% FED 10% STATE 10% VERNON		CODE NO	ITEM	UNIT		0005 80% FED. 20% STATE	0005 80% FED 10% STATE 10% VERNON	
21400100	GRADING AND SHAPING DITCHES	FOOT	1400	1400		70300100	SHORT TERM PAVEMENT MARKING	FOOT	7200	7200			
28000500	INLET AND PIPE PROTECTION	EACH	4	4		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	202468	202468			
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	14	14		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	17473	17473			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	17	17		*78004210	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 4"	FOOT	50617	50617			
40600300	AGGREGATE (PRIME COAT)	TON	80.7	80.7		*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	247	247			
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	2198	2198		*78200410	GUARDRAIL MARKERS, TYPE A	EACH	32	32			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1191	1191		*78200430	GUARDRAIL MARKERS, TYPE C	EACH	16	16			
40600990	TEMPORARY RAMP	SO YD	286	286		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	247	247			
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	4424	4424		■ X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	2475	2475			
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	78	78		Z0018300	DRAINAGE STRUCTURE REPAIR	EACH	1	1			
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SO YD	52787	52787		■ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	18	18			
44004250	PAVED SHOULDER REMOVAL	SO YD	5		5	● Z0076600	TRAINEES	hour	500	500			
44200156	PAVEMENT PATCHING, TYPE II, 13 INCH	SO YD	49	49									
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1127	1127									
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	5		5								
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1522	1210	312								
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1									
50800105	REINFORCEMENT BARS	POUND	68	68									
54214731	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 36"	EACH	1	1									
54248510	CONCRETE COLLAR	CU YD	2	2									
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	6	6									
550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	226	226									
55101900	STORM SEWER REMOVAL 48"	FOOT	226	226									
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE B GRATE	EACH	1	1									
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	7	7									
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4									
67100100	MOBILIZATION	L SUM	1	1									
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1									
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1									
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1									
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1									

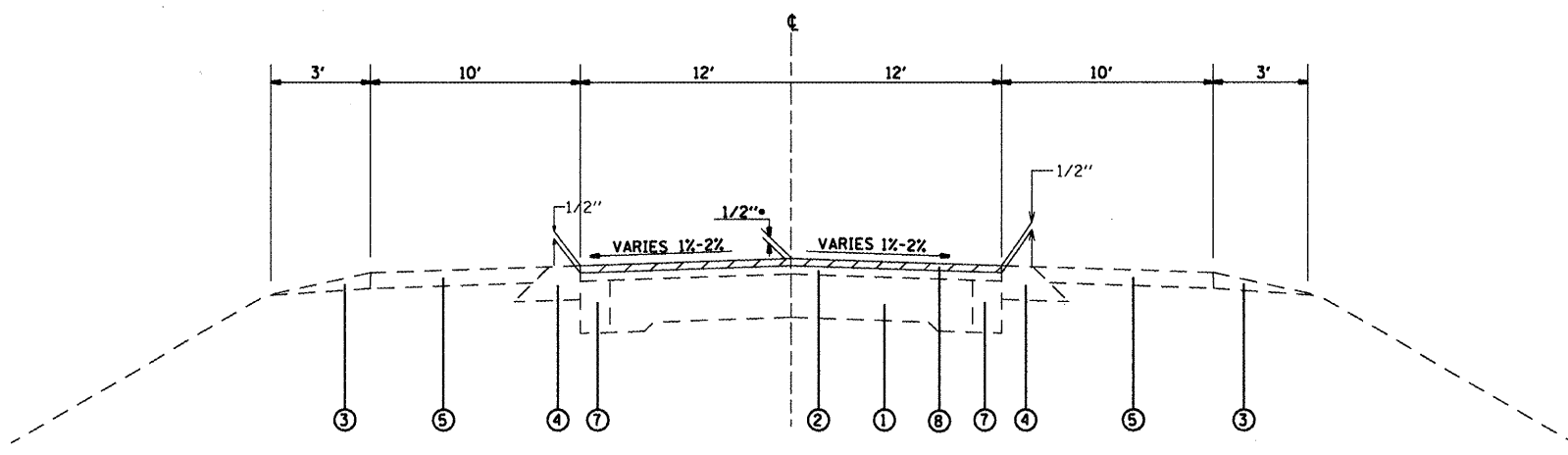
● QQ42
 *SPECIALTY ITEM
 ■ NON-PARTICIPATING
 100% STATE

FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 322	SECTION (24,25)RS-3	COUNTY MARION	TOTAL SHEETS 27	SHEET NO. 3		
#FILE#	PLOT SCALE = #SCALE#	DRAWN - ---	REVISED - ---			SCALE: -----	SHEET NO. 3 OF 27 SHEETS	STA. -----	TO STA. -----	CONTRACT NO. 76B76		
	PLOT DATE = #DATE#	CHECKED - ---	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT						
		DATE - -----	REVISED - ---									



EXISTING TYPICAL SECTION
 STA. 502+50 TO STA. 620+40
 STA. 634+33 TO STA. 709+00

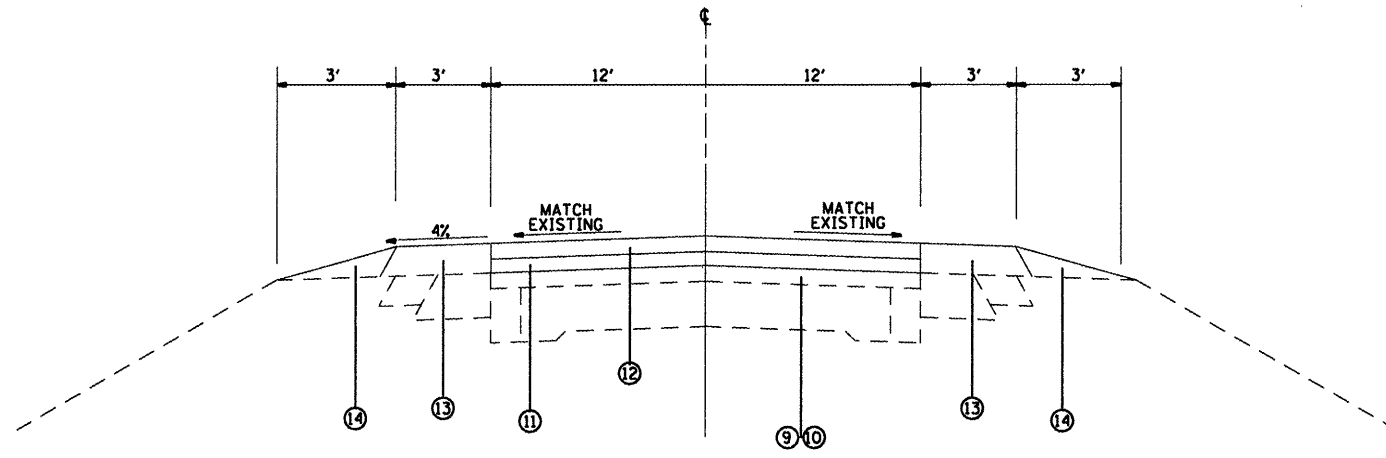
- LEGEND**
- ① EXISTING P.C.C PAVEMENT 9-6-9
 - ② EXISTING HMA RESURFACING
 - ③ EXISTING AGGREGATE/TURF SHOULDER
 - ④ EXISTING HMA WIDENING
 - ⑤ EXISTING HMA SHOULDER
 - ⑥ EXISTING HMA SHOULDER, 8"
 - ⑦ EXISTING PAVEMENT OR BASE COURSE
 - ⑧ PROPOSED HMA SURFACE REMOVAL, 1/2"
 - ⑨ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
 - ⑩ PROPOSED AGGREGATE (PRIME COAT)
 - ⑪ PROPOSED LEVEL BINDER (MACHINE METHOD), N70, 3/4"
 - ⑫ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1 1/2"
 - ⑬ PROPOSED HOT-MIX ASPHALT SHOULDERS
 - ⑭ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



EXISTING TYPICAL SECTION
 STA. 573+18 TO STA. 587+50

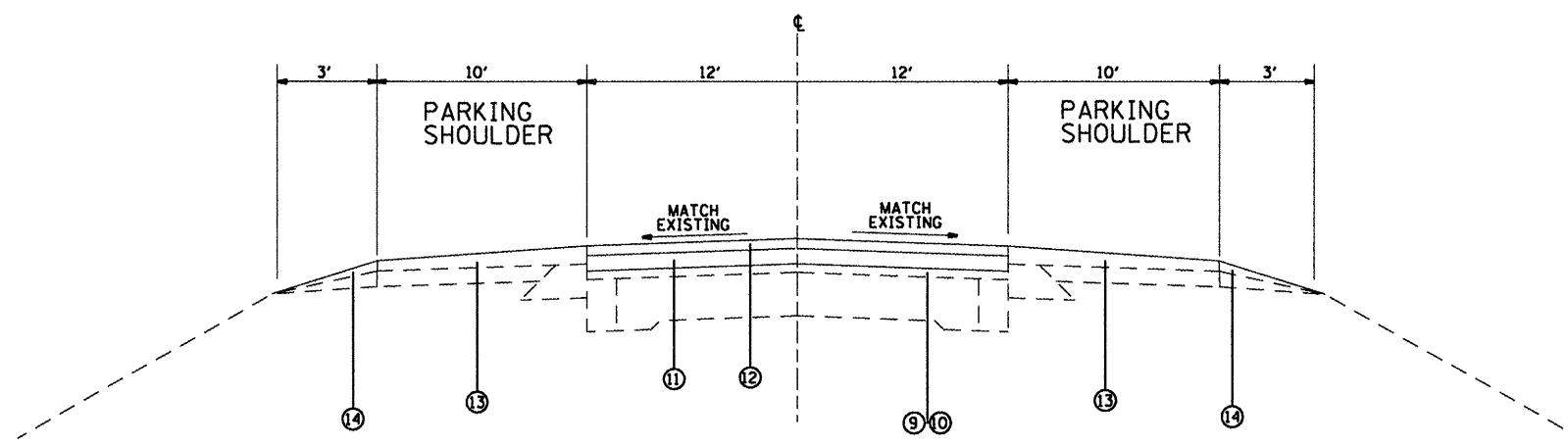
• CONTROL POINT FOR HMA SURFACE REMOVAL

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#		DRAWN - ---	REVISED - ---			322	(24,25)RS-3	MARION	27	4
PLOT SCALE = #SCALE#		CHECKED - ---	REVISED - ---			CONTRACT NO. 76B76				
PLOT DATE = *DATE*		DATE - -----	REVISED - ---			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE: SHEET NO. 4 OF 27 SHEETS STA. TO STA.						



PROPOSED TYPICAL SECTION
 STA. 502+50 TO STA. 620+40
 STA. 634+33 TO STA. 709+00

- LEGEND**
- ① EXISTING P.C.C PAVEMENT 9-6-9
 - ② EXISTING HMA RESURFACING
 - ③ EXISTING AGGREGATE/TURF SHOULDER
 - ④ EXISTING, HMA WIDENING
 - ⑤ EXISTING HMA SHOULDER
 - ⑥ EXISTING HMA SHOULDER, 8"
 - ⑦ EXISTING PAVEMENT OR BASE COURSE
 - ⑧ PROPOSED HMA SURFACE REMOVAL, 1/2"
 - ⑨ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
 - ⑩ PROPOSED AGGREGATE (PRIME COAT)
 - ⑪ PROPOSED LEVEL BINDER (MACHINE METHOD), N70, 3/4"
 - ⑫ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1 1/2"
 - ⑬ PROPOSED HOT-MIX ASPHALT SHOULDERS
 - ⑭ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B



PROPOSED TYPICAL SECTION
 STA. 620+40 TO STA. 634+33

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - ---	REVISED - ---		SCALE: -----	SHEET NO. 5 OF 27 SHEETS	STA. ----- TO STA. -----	322	(24,25)RS-3	MARION	27	5
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	PLOT DATE = *DATE*	DATE - -----	REVISED - ---		FED. ROAD DIST. NO. , ILLINOIS FED. AID PROJECT							

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 4"							
LOCATION			LENGTH (FOOT)	SOLID WHITE (FOOT)	SOLID YELLOW		YELLOW SKIP DASH (FOOT)
STA	TO	STA			NB - NPZ (FOOT)	SB - NPZ (FOOT)	
502+50.	TO	522+75	2025	4050			
524+95	TO	684+70	15975	31950			
691+05	TO	709+00	1795	3590			
Side Roads			314				
502+50.	TO	522+75	506.25				506.25
524+95	TO	537+88	323.25				323.25
542+10	TO	684+70	3565				3565
691+05	TO	709+00	448.75				448.75
502+50	TO	504+08	158			158	
529+95.6	TO	542+10	1214			1214	
661+95.6	TO	668+82	686			686	
679+38	TO	684+70	532			532	
691+05	TO	709+00	1795			1795	
507+25	TO	513+06	581		581		
537+88	TO	547+38	950		950		
673+04	TO	678+85	581		581		
SUB TOTAL:				39276	2112	4385	4843.3
TOTAL:				50617			

TEMPORARY PAVEMENT MARKING-LINE 4" =	202468
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LOCATION			HMA SHOULDERS		AGG SHOULDERS
Sta.	to	Sta.	Type	(TON)	(TON)
502+50	to	522+75	3' Sh.	67	119
524+95	to	551+35	3' Sh.	87	158
551+35	to	573+18	3' Sh.	72	118
573+18	to	587+50	10' Sh.	156	71
587+50	to	613+90	3' Sh.	87	141
613+90	to	640+30	3' Sh.	87	155
640+30	to	666+70	3' Sh.	87	156
666+70	to	684+70	3' Sh.	59	107
691+05	to	709+00	3' Sh.	59	102
SUBTOTAL =				761	1127
2 SIDES (for HMA SHOULDERS ONLY)					
TOTAL =				1522	1127

DRAINAGE STRUCTURES TO BE CLEANED			FRAMES & GRATES TO BE ADJUSTED
INLET	EACH	FIELD OBSERVATION	
1W	1	25% FULL	1
2W	1	25% FULL	
3W	1	25% FULL	
4W	1	0% FULL	1
5W	1	0% FULL	1
6W	1	0% FULL	
7W	1	0% FULL	1
8W	1	25% FULL	1
9W	1	25% FULL	
1E	1	0% FULL	1
2E	1	0% FULL	
3E	1	0% FULL	
4E	1	0% FULL	
5E	1	25% FULL	
CULVERT	N/A	DO NOT CLEAN	
6E	1	100% FULL	1
7E	1	100% FULL	1
8E	1	100% FULL	
9E	1	100% FULL	
TOTAL =	18		8

LOCATION			RAISED REFLECTOR PAVEMENT MARKERS TWO WAY AMBER	RAISED REFLECTOR PAVEMENT MARKERS REMOVAL
Sta.	to	Sta.	(EACH)	(EACH)
502+50	to	522+75	24	24
524+95	to	551+35	33	33
551+35	to	577+75	33	33
577+75	to	604+15	33	33
604+15	to	630+55	33	33
630+55	to	656+95	33	33
656+95	to	683+35	33	33
683+35	to	684+70	2	2
691+05	to	709+00	23	23
TOTAL =			247	247

STORM SEWER TO BE CLEANED, 15 INCH				
INLET		INLET	FEET	FIELD OBSERVATION
1W	to	2W	232	25% FULL
2W	to	3W	139	25% FULL
3W	to	4W	86	0% FULL
3W	to	5E	43	25% FULL
4W	to	5W	32	0% FULL
5W	to	6W	143	0% FULL
6W	to	7W	157	0% FULL
7W	to	8W	121	25% FULL
8W	to	9W	225	25% FULL
1E	to	2E	82	0% FULL
2E	to	3E	148	0% FULL
3E	to	4E	186	0% FULL
4E	to	5E	125	0% FULL
5E	to	CULVERT	129	25% FULL
CULVERT	to	6E	165	100% FULL
6E	to	7E	164	100% FULL
7E	to	8E	91	100% FULL
8E	to	9E	207	100% FULL
TOTAL =			2475	

PAVEMENT PATCHING 13 INCH SCHEDULE						
LOCATION*			LANE LENGTH	LANE WIDTH	PAVEMENT PATCHING TYPE II	
Sta.	to	Sta.	(FT)	(FT)	(SQ YD)	
531+24	to	531+28	NB 4	12	5.3	
590+10	to	590+14	NB 4	12	5.3	
595+67	to	595+71	NB 4	12	5.3	
621+89	to	621+93	NB 4	12	5.3	
687+26	to	687+30	NB 4	12	5.3	
553+87	to	553+91	SB 4	12	5.3	
600+46	to	600+50	SB 4	12	5.3	
620+22	to	620+26	SB 4	12	5.3	
683+02	to	683+06	SB 4	12	5.3	
704+55	to	704+59	SB 4	12	5.3	
SUBTOTAL:					53.3	
ANTICIPATED FAILURES (15%):					8.0	
TOTAL:					61	

*Resident Engineer shall locate patches in the field

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILE#		DRAWN -	REVISED -			322	(24,25)RS-3	MARION	27	6	
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -			CONTRACT NO. 76B76					
	PLOT DATE = *DATE*	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

Aggregate Surface Course Type-B		
Station	Agg Surface (TON)	Mail Turnout (TON)
506+72.4	0.2	
536+82	0.33	
557+94	0.33	
557+94	0.33	
561+10.8	0.23	
561+63.8	0.23	
563+74.8		0.39
566+38.8	0.2	
567+44.4		0.36
567+97.2	0.33	0.39
572+19.6	0.33	
573+72.4	0.33	
573+72.4	0.33	
576+42	0.33	
579+58.8	0.4	
580+11.6	0.4	
581+70	0.23	
584+86.8	0.2	0.39
584+86.8	0.4	
586+98	0.4	
587+50.8	0.33	
588+03.6		0.36
591+73.2	0.33	
592+26		0.36
595+42.8	0.2	
595+95.6		0.36
597+54		0.36
602+82		0.39
603+34.8	0.4	0.36
605+46		0.36
613+38		0.36
622+88.4	0.33	
637+14		0.39
650+34	0.33	
663+54	0.2	
677+26.8	0.2	
687+30		0.36
697+86	0.33	
697+86	0.2	
700+50		0.39
TOTAL:		14

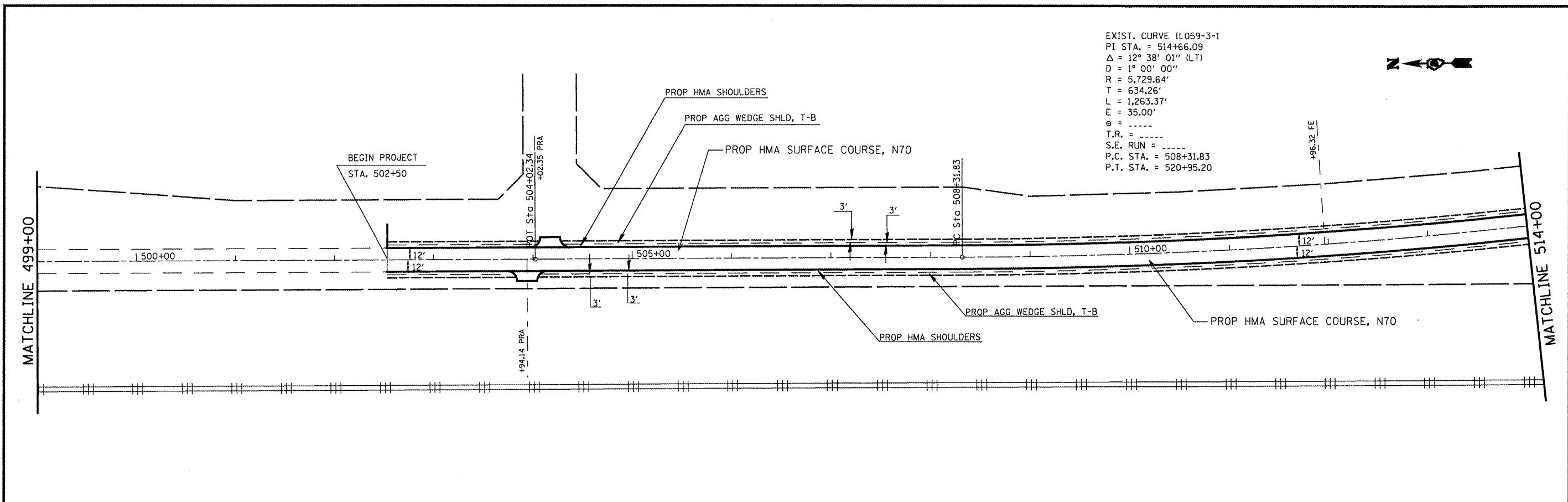
ENTRANCE SCHEDULE				
STATION	LOCATION	EXISTING MATERIAL	TYPE	INCIDENTAL HMA SURFACING TON
503+94	RIGHT	HMA	Side Road	5
504+02	LEFT	HMA	Side Road	5
539+62	LEFT	HMA	Side Road	4
562+39	LEFT	HMA	PE	0.33
565+31	LEFT	HMA	PE	0.2
567+07.7	LEFT	HMA	PE	0.23
567+64.7	LEFT	HMA	PE	0.2
571+82.7	LEFT	OIL & CHIP	Side Road	4
576+49.7	RIGHT	OIL & CHIP	Side Road	5.6
576+49.7	LEFT	OIL & CHIP	Side Road	5.6
580+84.7	RIGHT	OIL & CHIP	Side Road	5.6
580+84.7	LEFT	OIL & CHIP	Side Road	5.6
585+36.7	RIGHT	OIL & CHIP	Side Road	6.1
585+36.7	LEFT	OIL & CHIP	Side Road	6.1
589+62	RIGHT	HMA	PE	0.4
593+09.8	RIGHT	HMA	PE	0.23
593+65.6	LEFT	HMA	PE	0.4
597+10.7	RIGHT	HMA	PE	0.2
598+59.7	RIGHT	CONC.	PE	0.58
604+62.7	RIGHT	HMA	PE	0.23
605+43.7	RIGHT	HMA	PE	0.4
608+99.3	RIGHT	CONC.	PE	0.43
611+97.7	LEFT	HMA	CE	0.2
614+27.7	RIGHT	HMA	CE	0.2
615+12.7	LEFT	HMA	CE	0.2
617+59.7	RIGHT	HMA	PE	0.4
625+07.7	LEFT	HMA	CE	0.23
638+34	LEFT	CONC.	Side Road	4.2
638+34	RIGHT	OIL & CHIP	Side Road	4
648+31.4	LEFT	CONC.	CE	0.58
651+51.7	RIGHT	HMA	PE	0.2
666+26.1	RIGHT	HMA	PE	0.4
673+74.7	RIGHT	HMA	CE	0.2
689+13.3	LEFT	HMA	CE	0.58
699+02.3	RIGHT	HMA	PE	0.2
699+80	RIGHT	HMA	Side Road	3.2
701+50.3	LEFT	HMA	SIDE ROAD	3.2
702+44.8	RIGHT	HMA	Side Road	3.2
TOTAL =				78

HMA RESURFACING SCHEDULE							
LOCATION			HMA SURFACE REMOVAL, 1/2"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	LEVEL BINDER (MACHINE METHOD), N70	HMA ASPHALT SURFACE COURSE, MIX C, N70
STA.	TO	STA.	(SQ YD)	(TON)	(TON)	(TON)	(TON)
502+50	TO	522+75	5400	1.74	8.3	220	454
524+95	TO	551+35	7040	2.25	10.7	292	592
551+35	TO	577+75	7040	2.26	10.8	296	592
577+75	TO	604+15	7040	2.28	10.9	296	592
604+15	TO	630+55	7040	2.25	10.6	296	592
630+55	TO	656+95	7040	2.25	10.8	296	592
656+95	TO	683+35	7040	2.25	10.6	296	592
683+35	TO	684+70	360	0.11	0.6	12	31
691+05	TO	709+00	4787	1.54	7.4	194	387
TOTAL =			52787	17	80.7	2198	4424

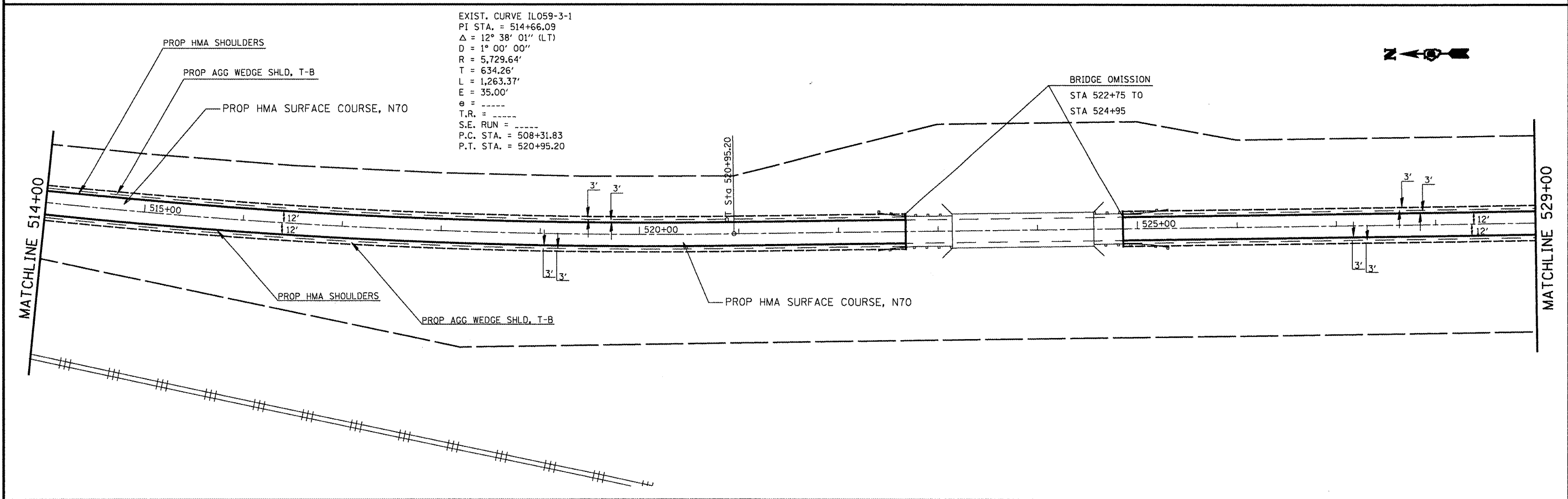
GRADING AND SHAPING DITCHES					
Sta./MH	LOCATION	to	Sta./MH	LOCATION	(FT)
576+69	RIGHT	to	2W		187
3W		to	580+69	RIGHT	76
2E		to	576+18	LEFT	94
3E		to	4E		184
4E		to	5E		125
5E		to	580+69	LEFT	84
587+95	LEFT	to	588+35	LEFT	40
588+85	LEFT	to	589+01	LEFT	16
589+41	LEFT	to	592+78	LEFT	337
593+18	LEFT	to	594+15	LEFT	97
594+48	LEFT	to	596+08	LEFT	160
TOTAL =					1400

GUARDRAIL MARKERS		
SN 061-0001	TYPE A (EACH)	TYPE C (EACH)
Guardrail NE	4	
Guardrail NW	4	
Guardrail SE	4	
Guardrail SW	4	
Bridge Parapet E		4
Bridge Parapet W		4
SN 061-0094		
Guardrail NE	4	
Guardrail NW	4	
Guardrail SE	4	
Guardrail SW	4	
Bridge Parapet E		4
Bridge Parapet W		4
TOTAL =	32	16

STATION	LOCATION	CONCRETE COLLAR (CU YD)	REINFORCEMENT BARS (LBS)	PIPE (FT)
574+00	RIGHT	1.02	42.9	
576+07.15	LEFT	0.82	24.7	6
TOTAL:		2	68	6



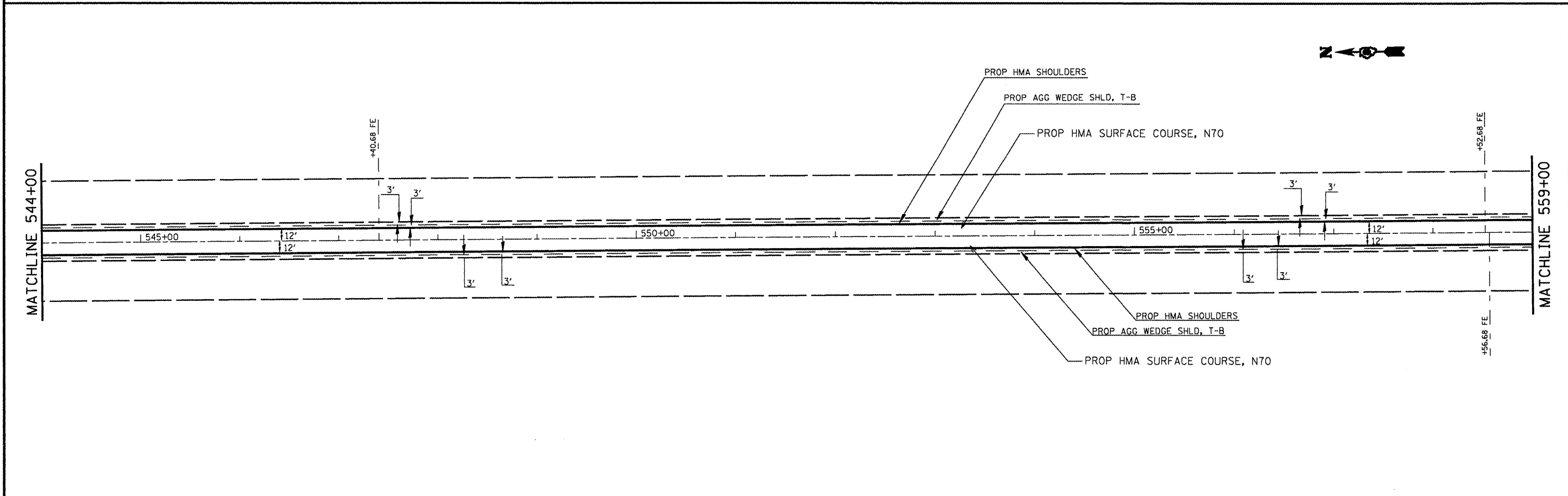
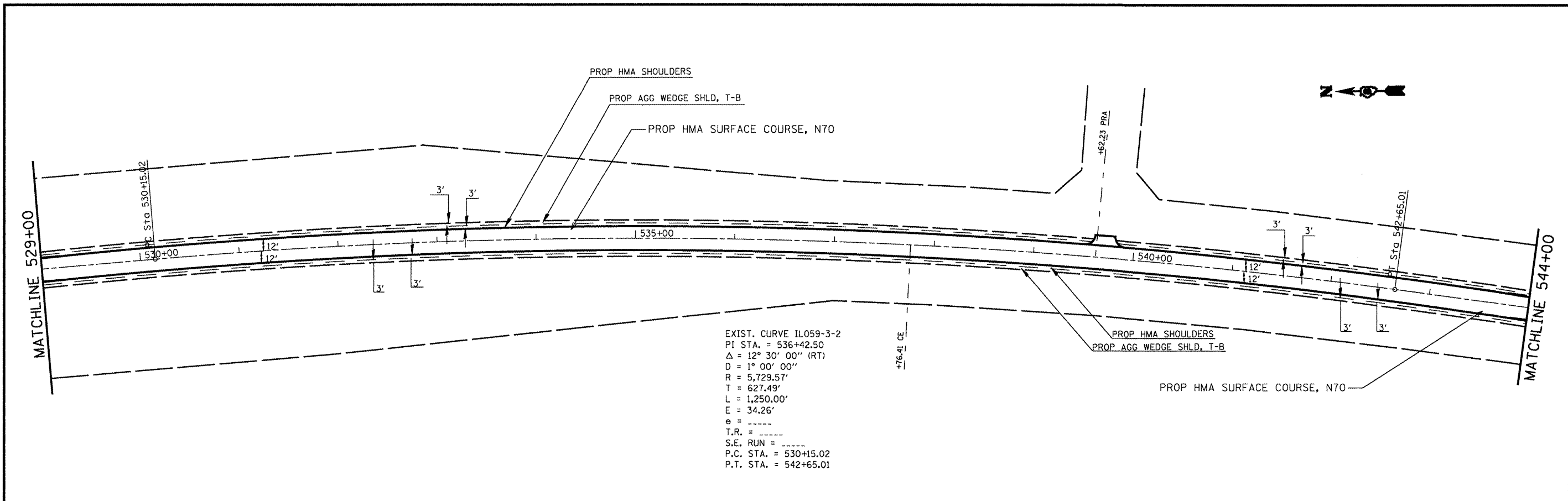
EXIST. CURVE ILO59-3-1
 PI STA. = 514+66.09
 $\Delta = 12^\circ 38' 01''$ (LT)
 $D = 1^\circ 00' 00''$
 $R = 5,729.64'$
 $T = 634.26'$
 $L = 1,263.37'$
 $E = 35.00'$
 $\theta = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 508+31.83$
 $P.T. \text{ STA.} = 520+95.20$



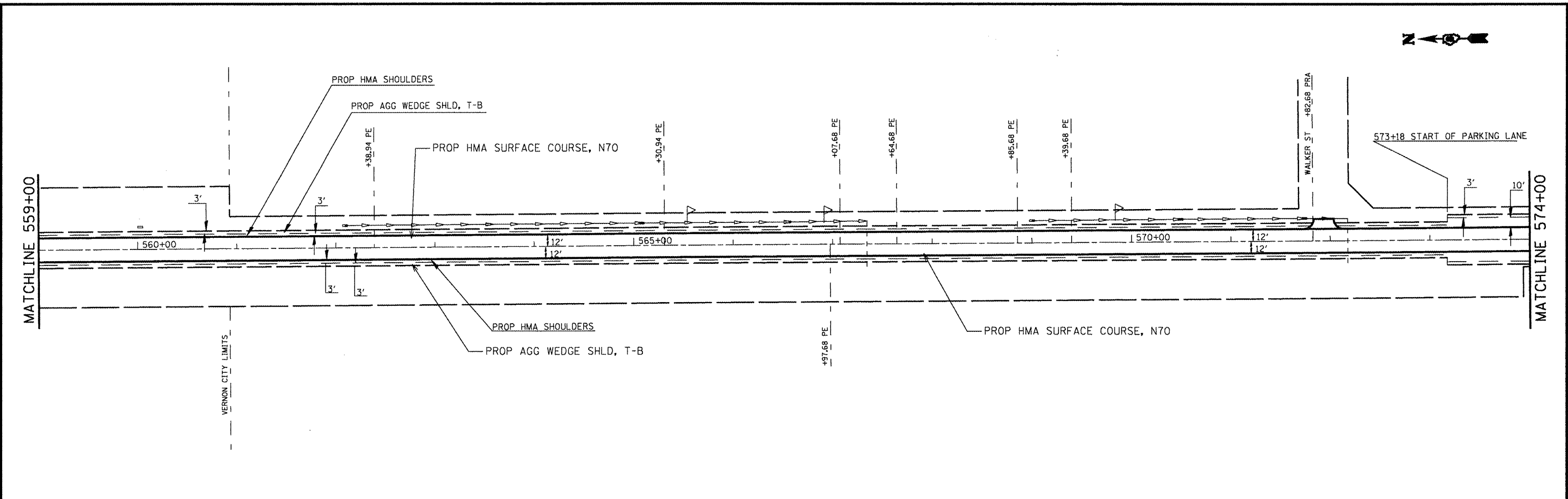
EXIST. CURVE ILO59-3-1
 PI STA. = 514+66.09
 $\Delta = 12^\circ 38' 01''$ (LT)
 $D = 1^\circ 00' 00''$
 $R = 5,729.64'$
 $T = 634.26'$
 $L = 1,263.37'$
 $E = 35.00'$
 $\theta = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 508+31.83$
 $P.T. \text{ STA.} = 520+95.20$

BRIDGE OMISSION
 STA 522+75 TO
 STA 524+95

FILE NAME = #FILEL*	USER NAME = #USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW	F.A.P. RTE. 322	SECTION (24.25) RS-3	COUNTY MARION	TOTAL SHEETS 27	SHEET NO. 8	
PLOT SCALE = #SCALE*	CHECKED - ---	REVISED - ---	SCALE: 50			SHEET NO. 8 OF 27 SHEETS	STA. 499+00 TO STA. 529+00	CONTRACT NO. 76B76			
PLOT DATE = #DATE*	DATE - ---	REVISED - ---	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT								

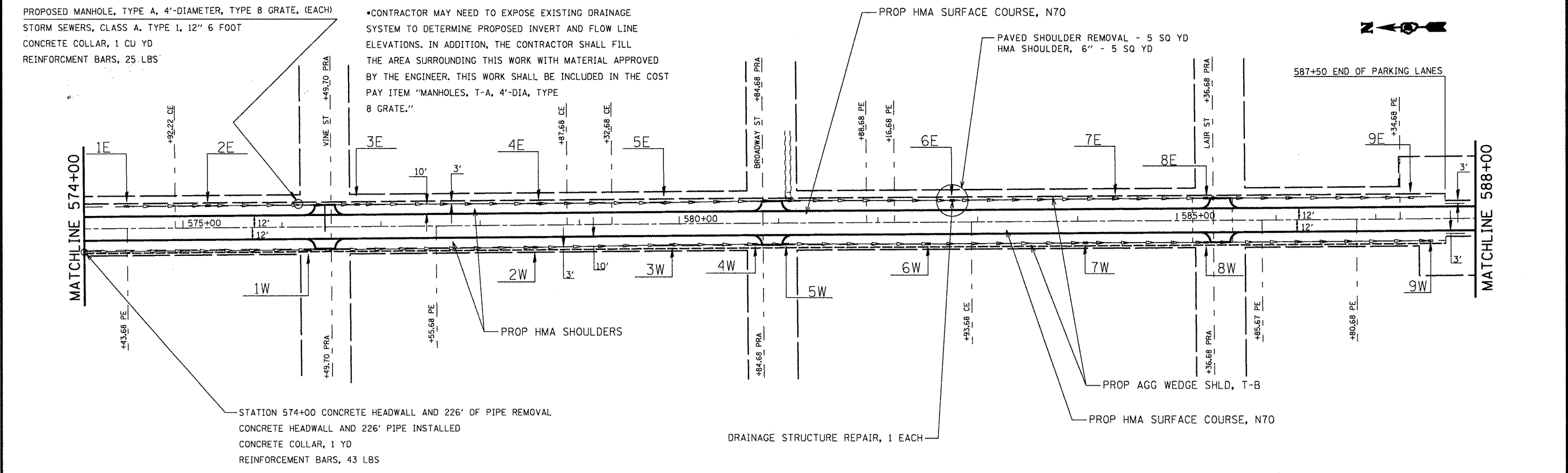


FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN - ---	REVISED - ---			322	(24,25) RS-3	MARION	27	9
		CHECKED - ---	REVISED - ---			CONTRACT NO. 76876				
		DATE - -----	REVISED - ---	SCALE: 50	SHEET NO. 9 OF 27 SHEETS	STA. 529+00 TO STA. 559+00		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT		



PROPOSED MANHOLE, TYPE A, 4'-DIAMETER, TYPE 8 GRATE, (EACH)
 STORM SEWERS, CLASS A, TYPE 1, 12" 6 FOOT
 CONCRETE COLLAR, 1 CU YD
 REINFORCEMENT BARS, 25 LBS

*CONTRACTOR MAY NEED TO EXPOSE EXISTING DRAINAGE SYSTEM TO DETERMINE PROPOSED INVERT AND FLOW LINE ELEVATIONS. IN ADDITION, THE CONTRACTOR SHALL FILL THE AREA SURROUNDING THIS WORK WITH MATERIAL APPROVED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST PAY ITEM "MANHOLES, T-A, 4'-DIA, TYPE 8 GRATE."



FILE NAME	USER NAME = #USER#
#FILE#	

DESIGNED	---
DRAWN	---
CHECKED	---
DATE	---

REVISED	---
REVISED	---
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REVISED	---

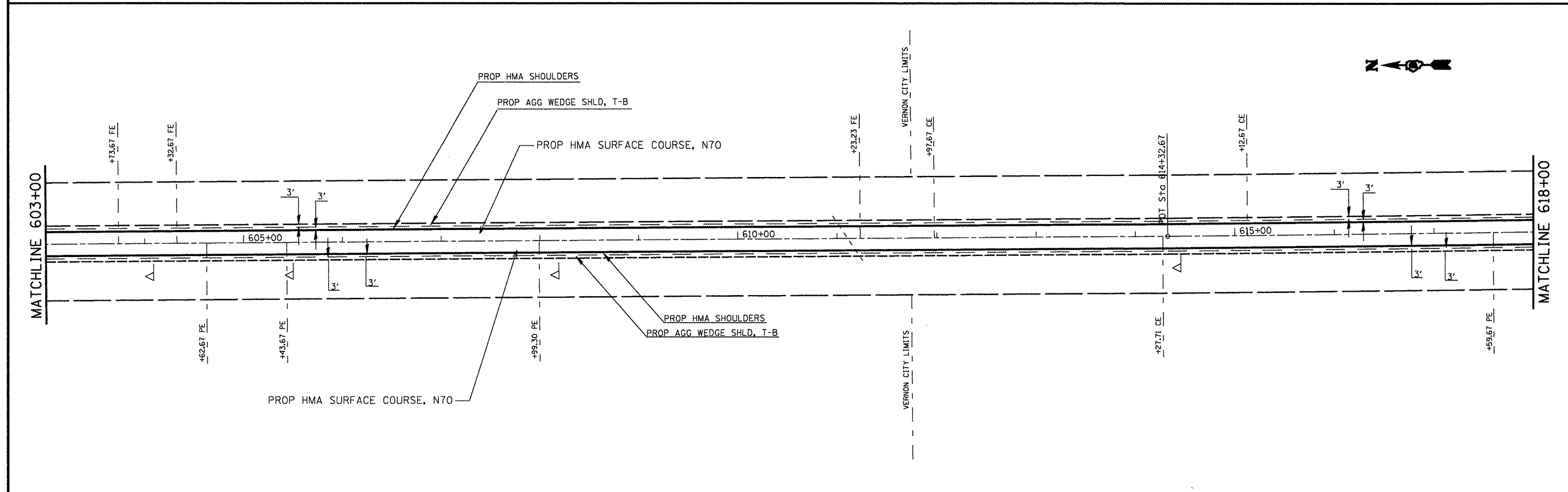
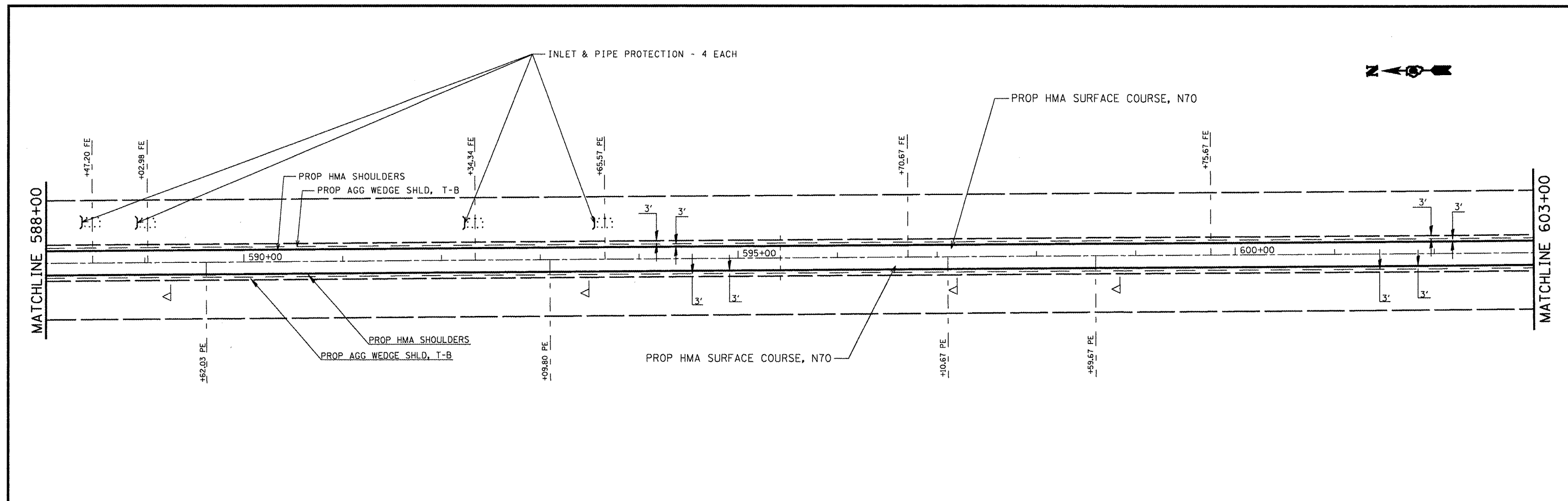
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

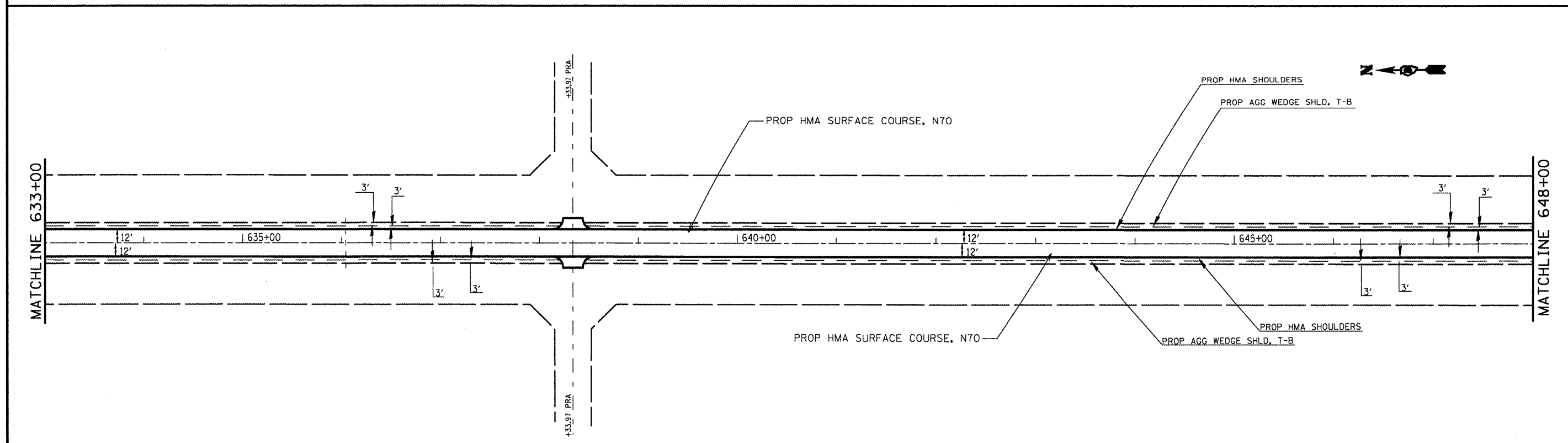
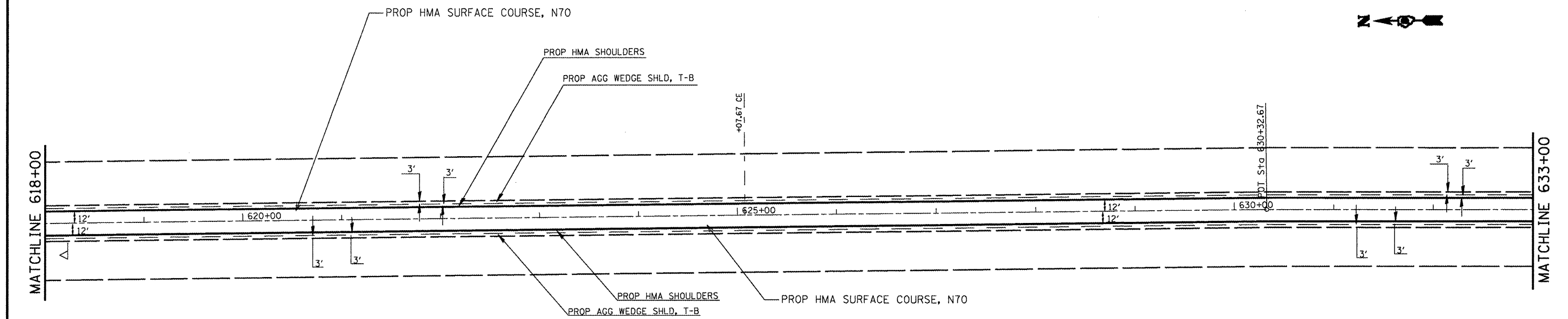
SCALE: 50 SHEET NO. 10 OF 27 SHEETS STA. 559+00 TO STA. 588+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24.25) RS-3	MARION	27	10
CONTRACT NO. 76B76				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = #DATE#	CHECKED - ---	REVISED - ---			CONTRACT NO. 76B76					
		DATE - ---	REVISED - ---			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

SCALE: 50 SHEET NO. 11 OF 27 SHEETS STA. 588+00 TO STA. 618+00



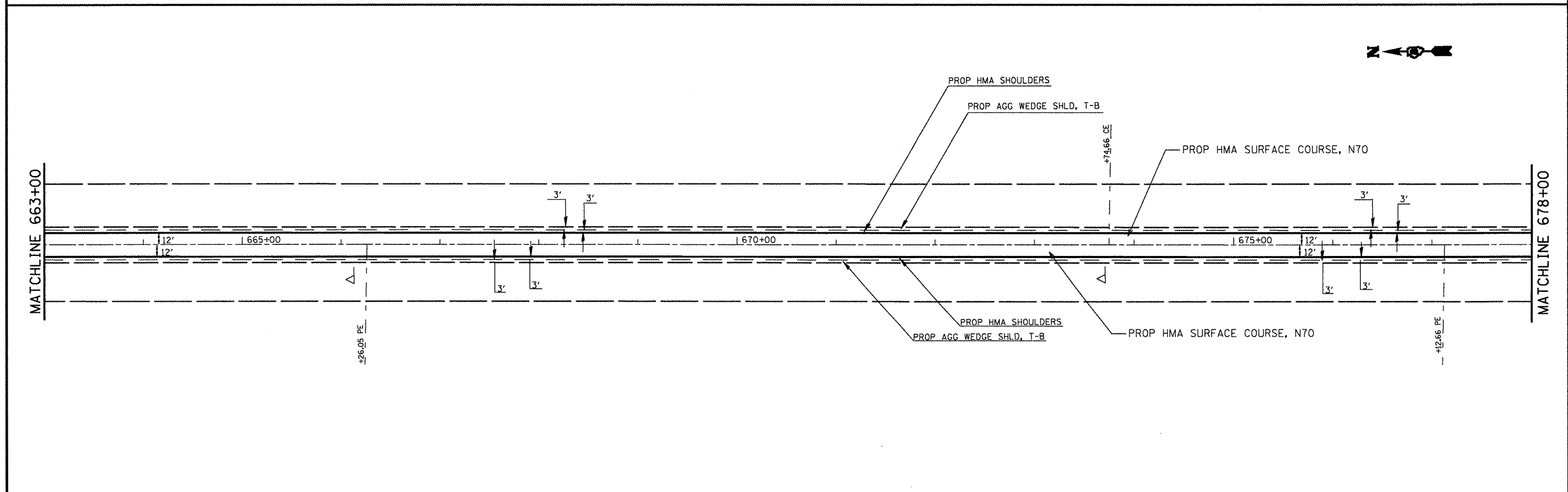
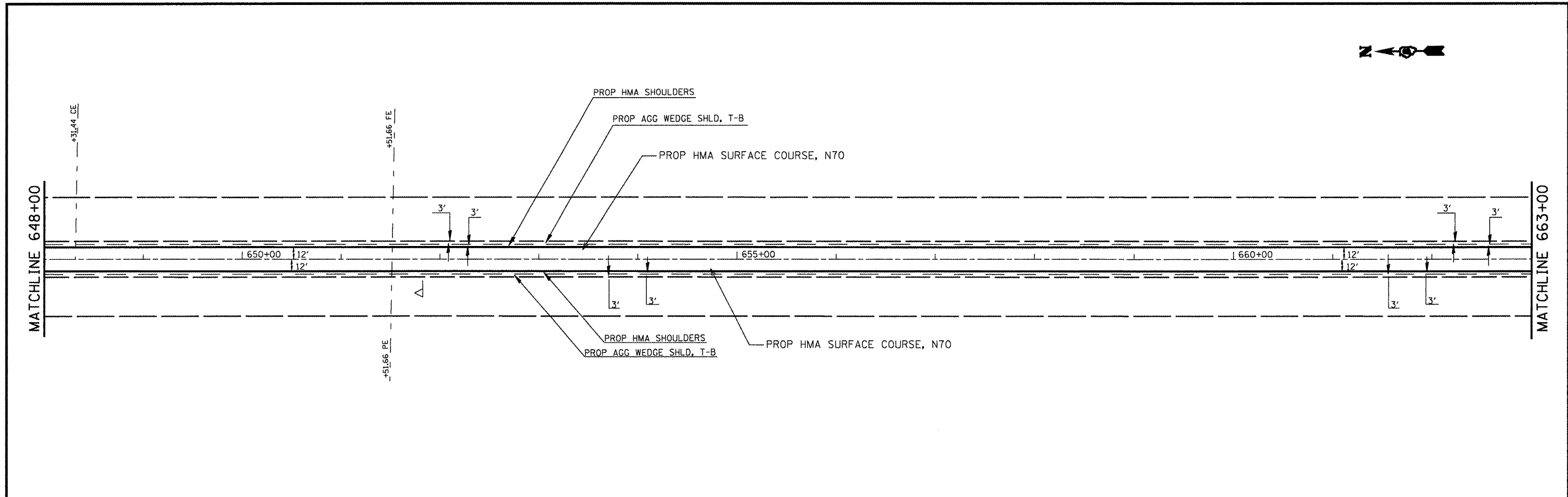
FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---
#FILE#		DRAWN - ---	REVISED - ---
	PLOT SCALE = #SCALE#	CHECKED - ---	REVISED - ---
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

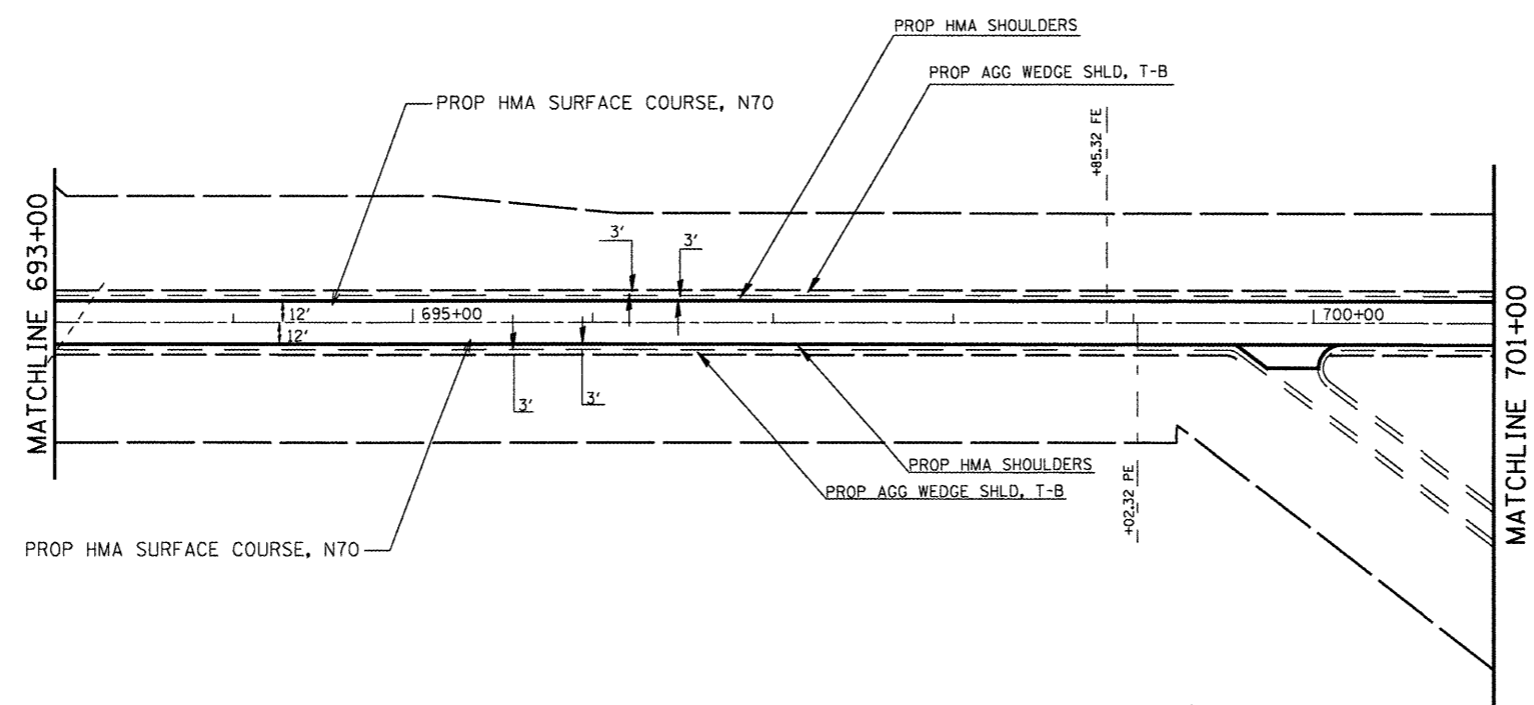
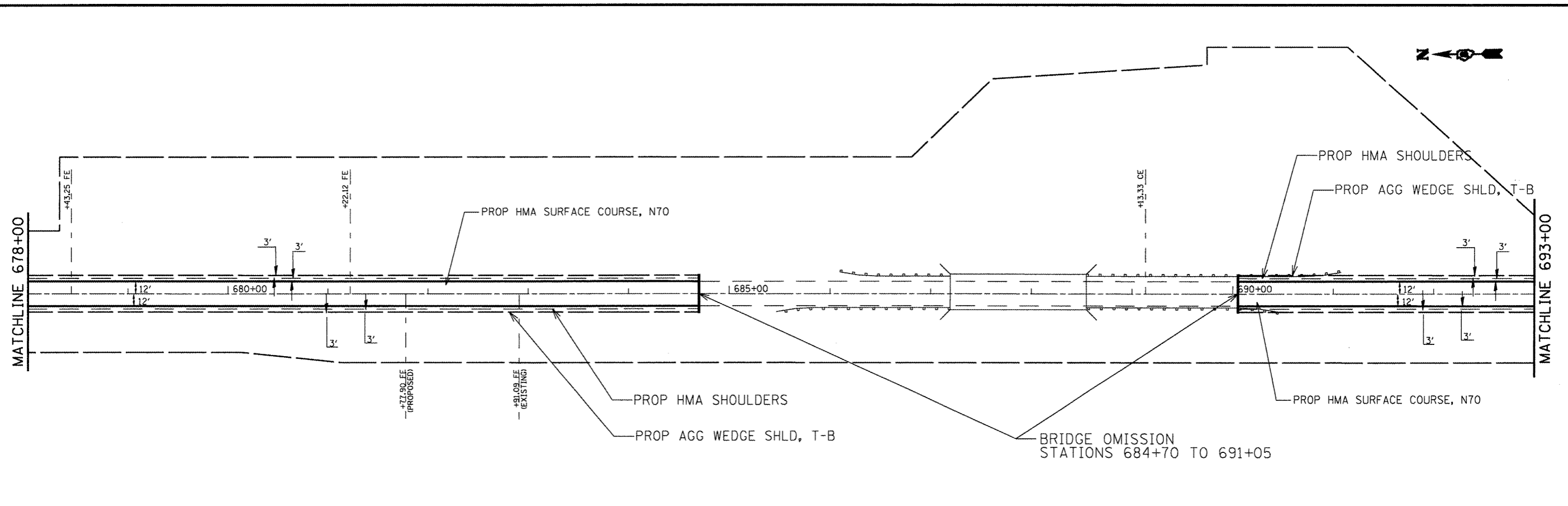
PLAN VIEW

SCALE: 50' SHEET NO. 12 OF 27 SHEETS STA. 618+00 TO STA. 648+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24,25) RS-3	MARION	27	12
CONTRACT NO. 76B76				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -			322	(24,25) RS-3	MARION	27	13
		CHECKED -	REVISED -			CONTRACT NO. 76B76				
		PLOT SCALE = #SCALE#			SCALE: 50	SHEET NO. 13 OF 27 SHEETS		STA. 648+00 TO STA. 678+00		
		PLOT DATE = #DATE#			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



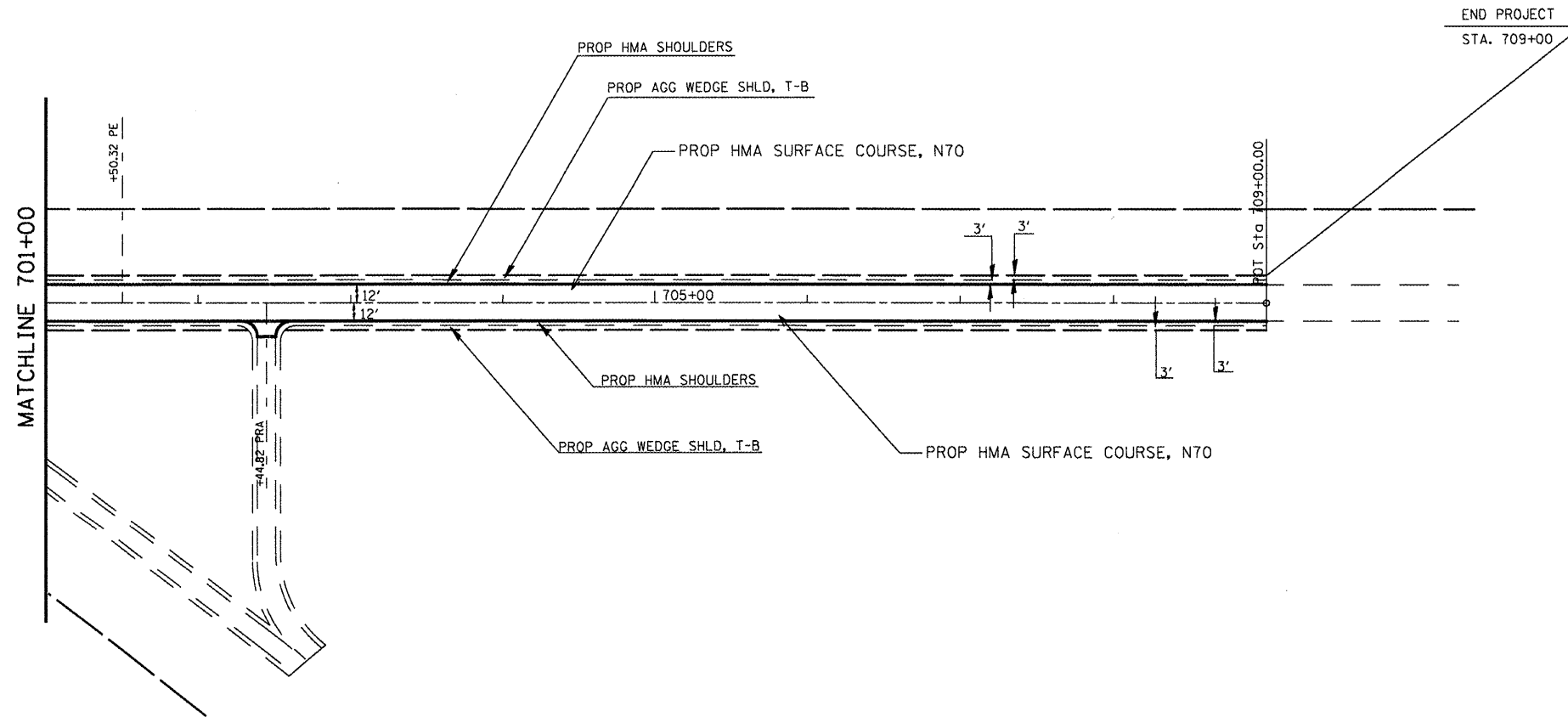
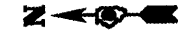
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	PLOT DATE = #DATE#	DATE - -----	REVISED - ---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: 50 SHEET NO. 14 OF 27 SHEETS STA. 678+00 TO STA. 701+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24,25) RS-3	MARION	27	14
CONTRACT NO. 76876				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



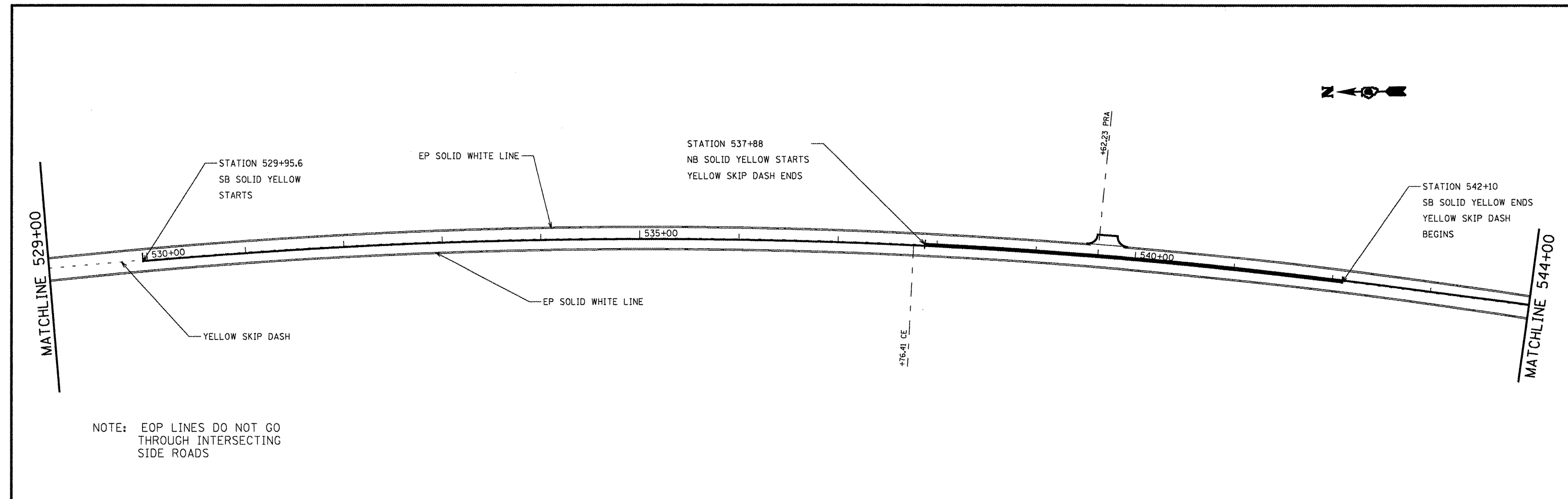
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

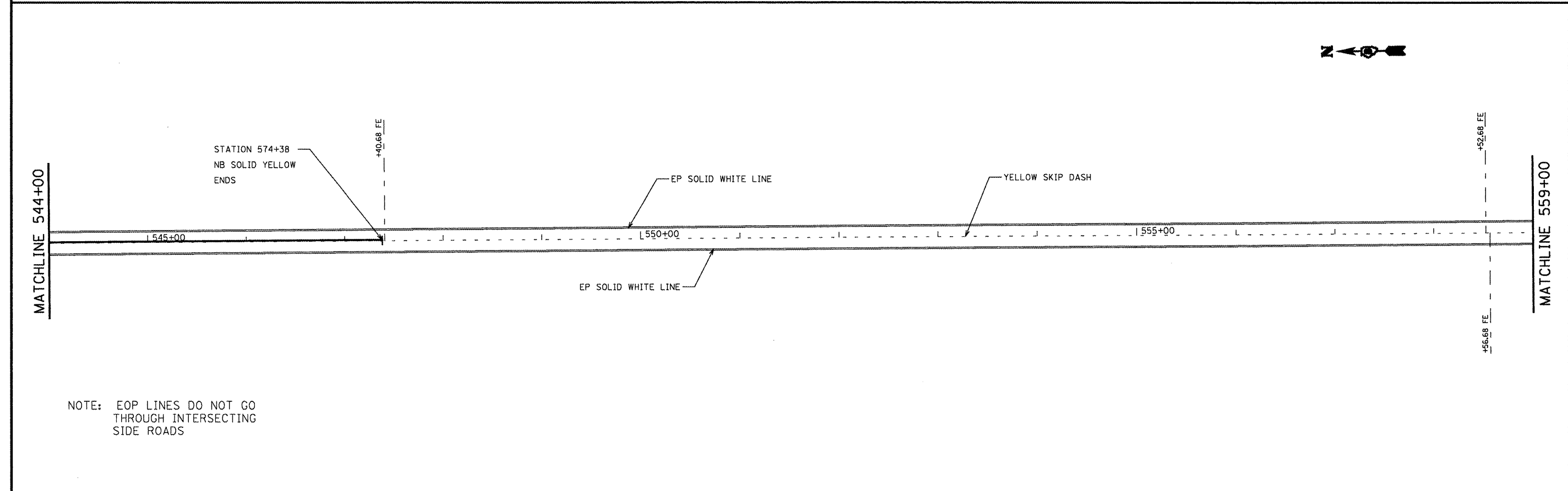
PLAN VIEW

SCALE: 50 SHEET NO. 15 OF 27 SHEETS STA. 701+00 TO STA. 709+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24.25) RS-3	MARION	27	15
CONTRACT NO. 76876				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



NOTE: EOP LINES DO NOT GO THROUGH INTERSECTING SIDE ROADS



NOTE: EOP LINES DO NOT GO THROUGH INTERSECTING SIDE ROADS

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKINGS PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE#	PLOT SCALE = *SCALE*	DRAWN - ---	REVISED - ---			322	(24,25) RS-3	MARION	27	17
	PLOT DATE = *DATE*	CHECKED - ---	REVISED - ---			CONTRACT NO. 76B76			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
				SCALE: 50		SHEET NO. 17 OF 27 SHEETS		STA. 529+00 TO STA. 559+00		

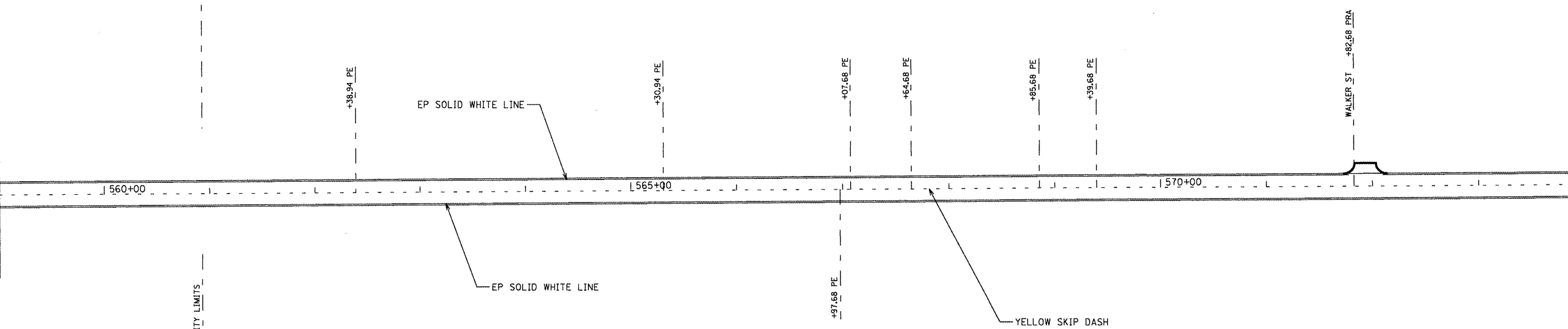


MATCHLINE 559+00

MATCHLINE 574+00

VERNON CITY LIMITS

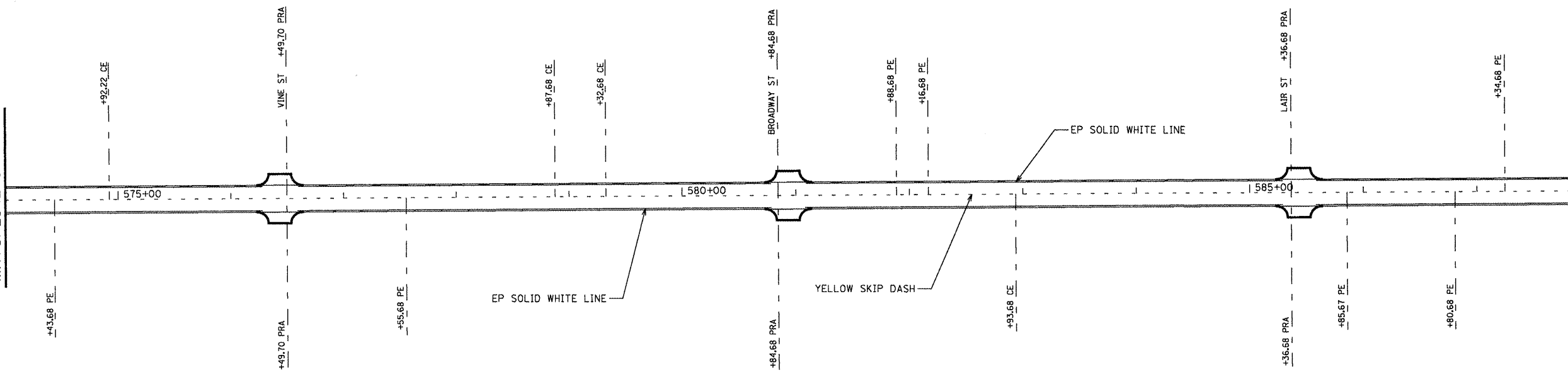
NOTE: EOP LINES DO NOT GO THROUGH INTERSECTING SIDE ROADS



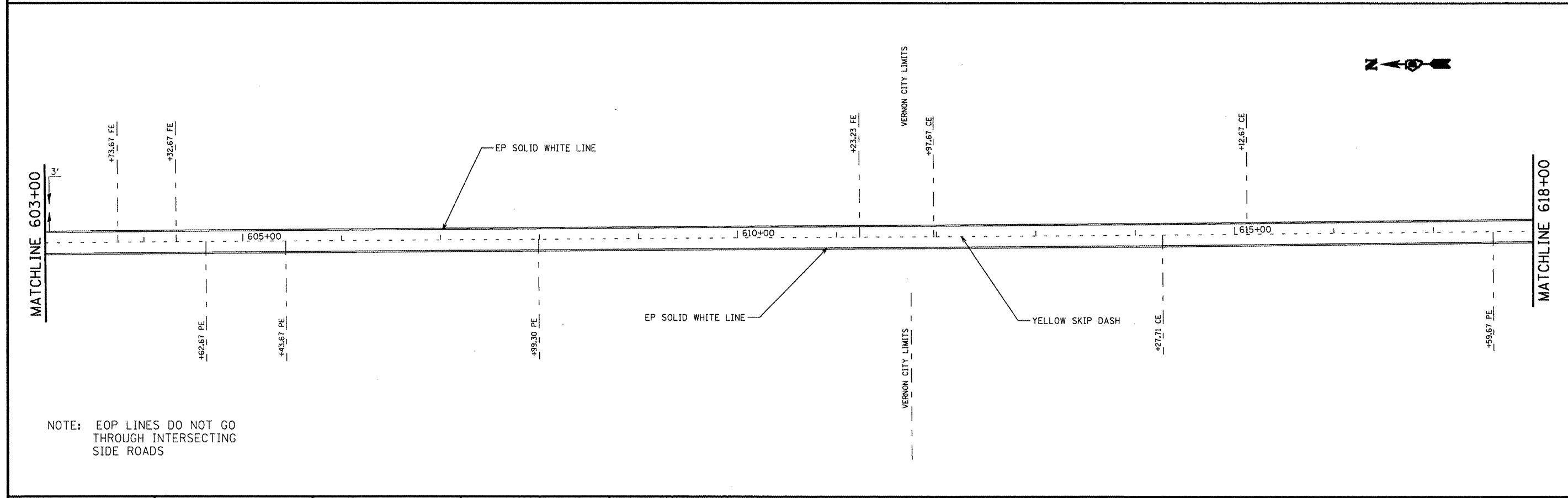
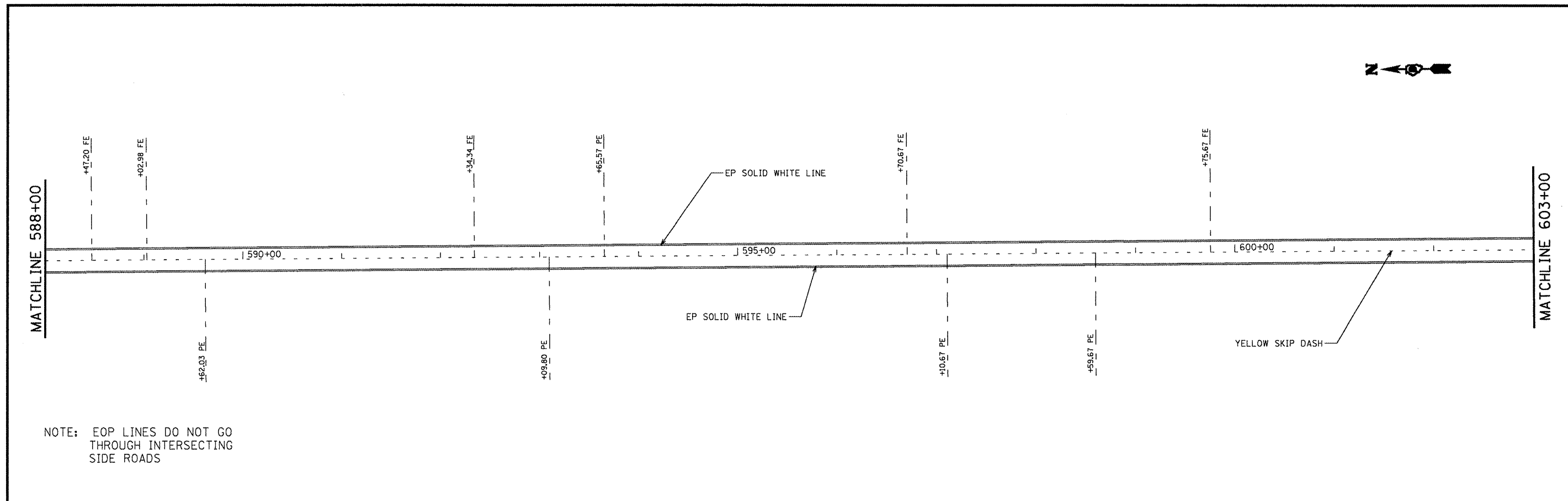
MATCHLINE 574+00

MATCHLINE 588+00

NOTE: EOP LINES DO NOT GO THROUGH INTERSECTING SIDE ROADS



FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKINGS PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE#	PLOT SCALE = *SCALE*	DRAWN -	REVISED -			322	(24,25) RS-3	MARION	27	18
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						CONTRACT NO. 76B76				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										



FILE NAME =
FILE#

USER NAME = *USER*
PLOT SCALE = *SCALE*
PLOT DATE = *DATE*

DESIGNED - ---
DRAWN - ---
CHECKED - ---
DATE - ---

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS PLAN VIEW

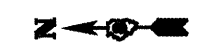
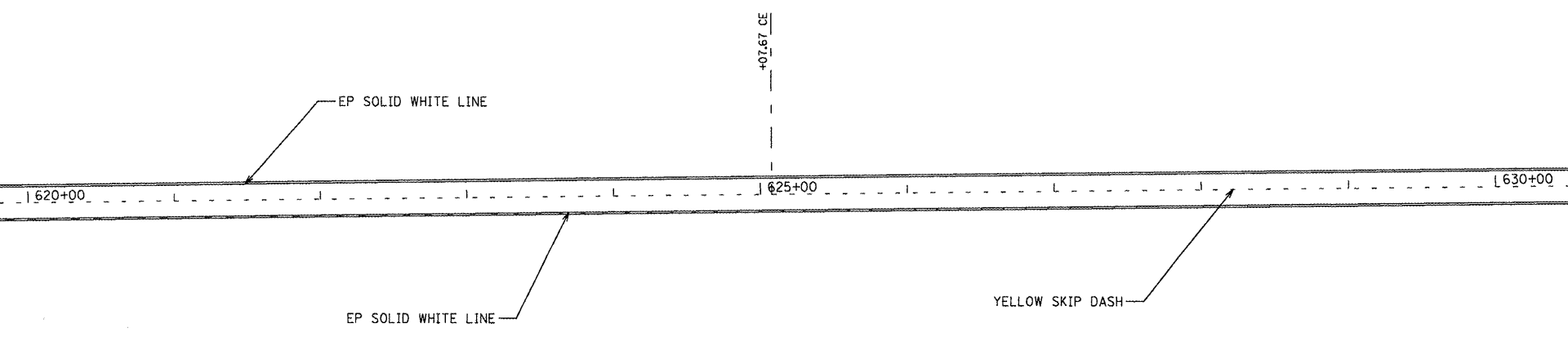
SCALE: 50' SHEET NO. 19 OF 27 SHEETS STA. 588+00 TO STA. 618+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24,25) RS-3	MARION	27	19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76876	



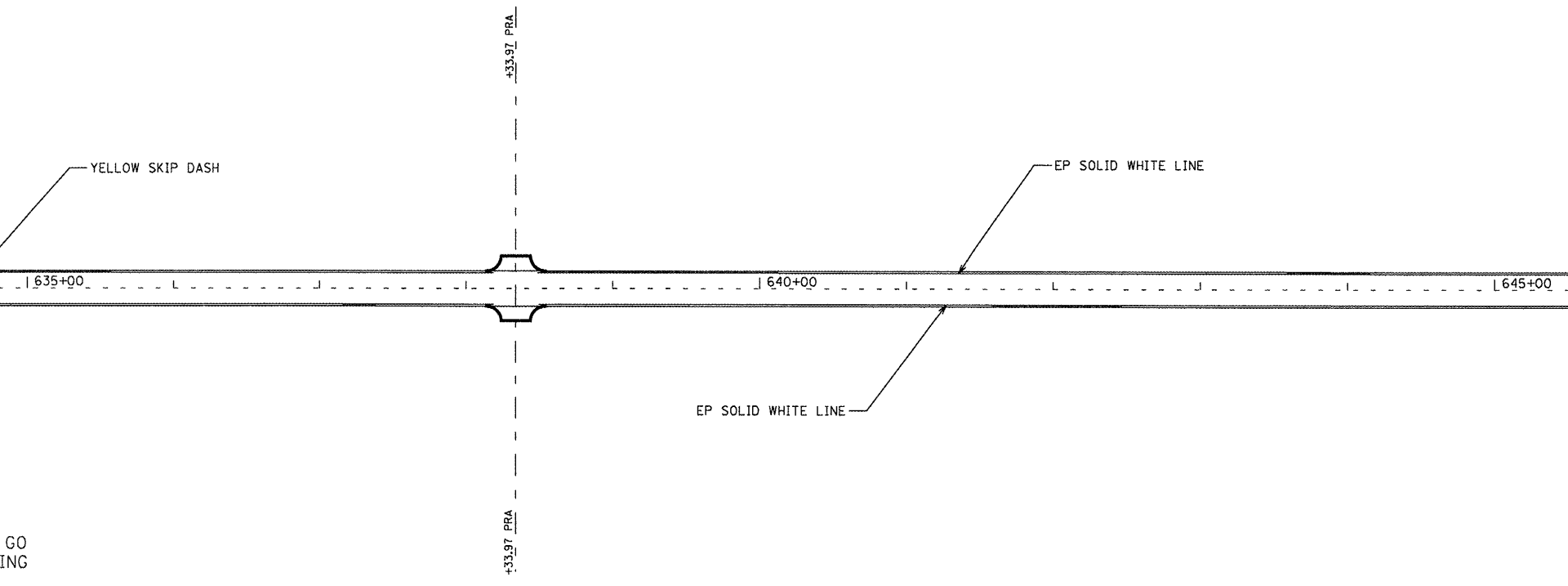
MATCHLINE 618+00

MATCHLINE 633+00



MATCHLINE 633+00

MATCHLINE 648+00



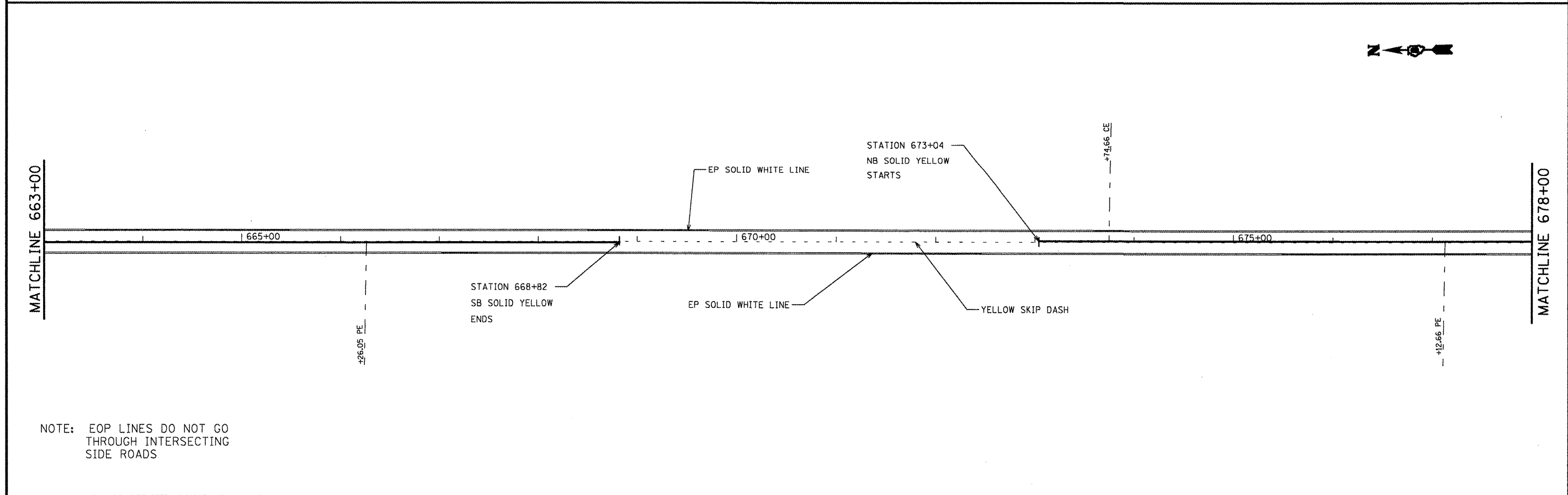
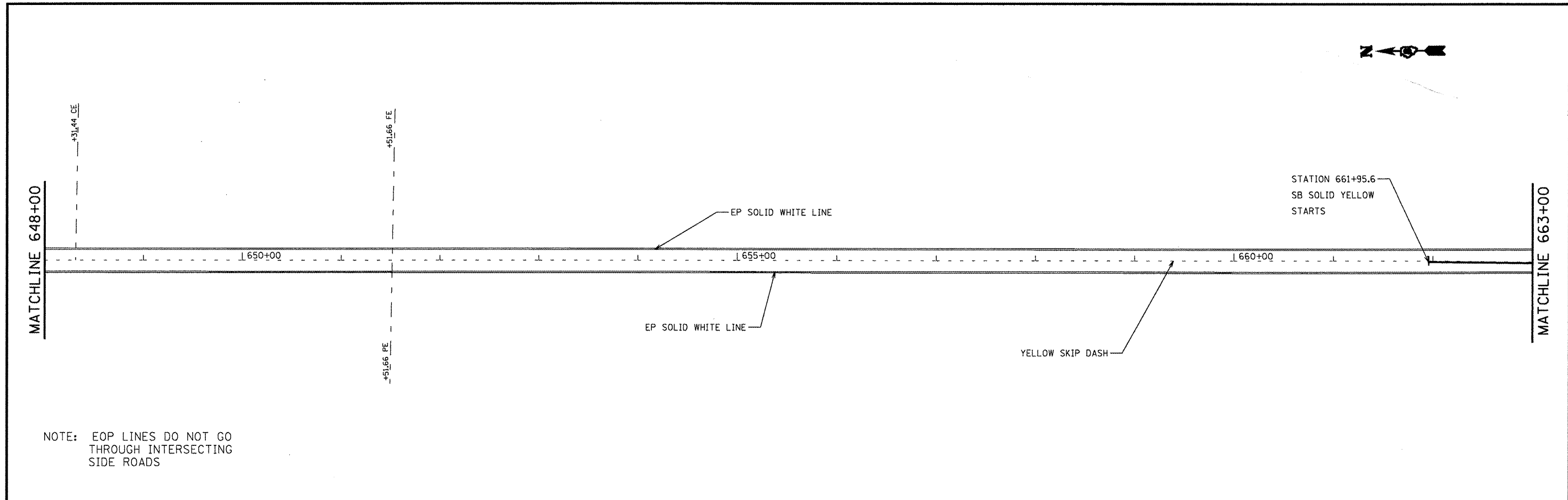
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		DATE - -----	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

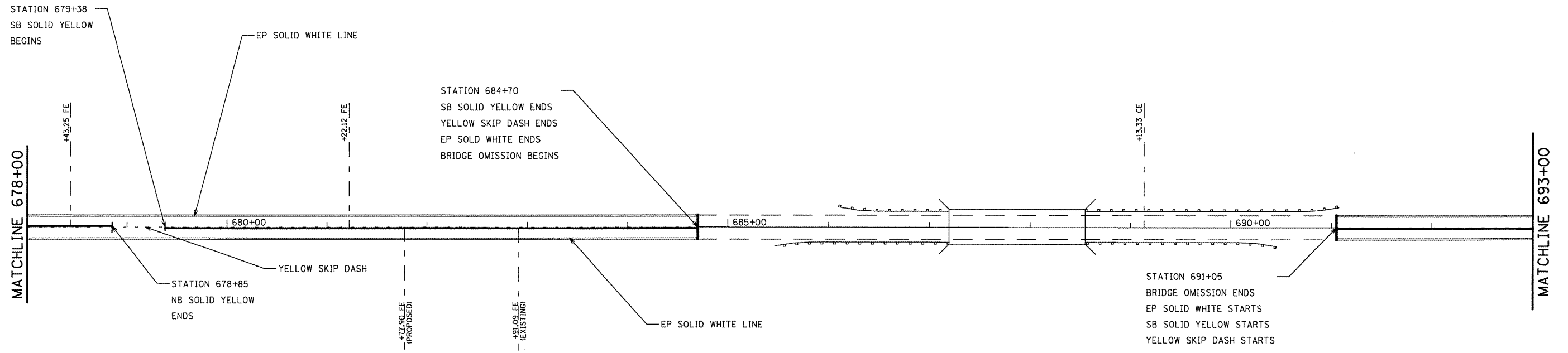
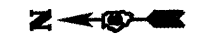
PAVEMENT MARKINGS PLAN VIEW

SCALE: 50 SHEET NO. 20 OF 27 SHEETS STA. 618+00 TO STA. 648+00

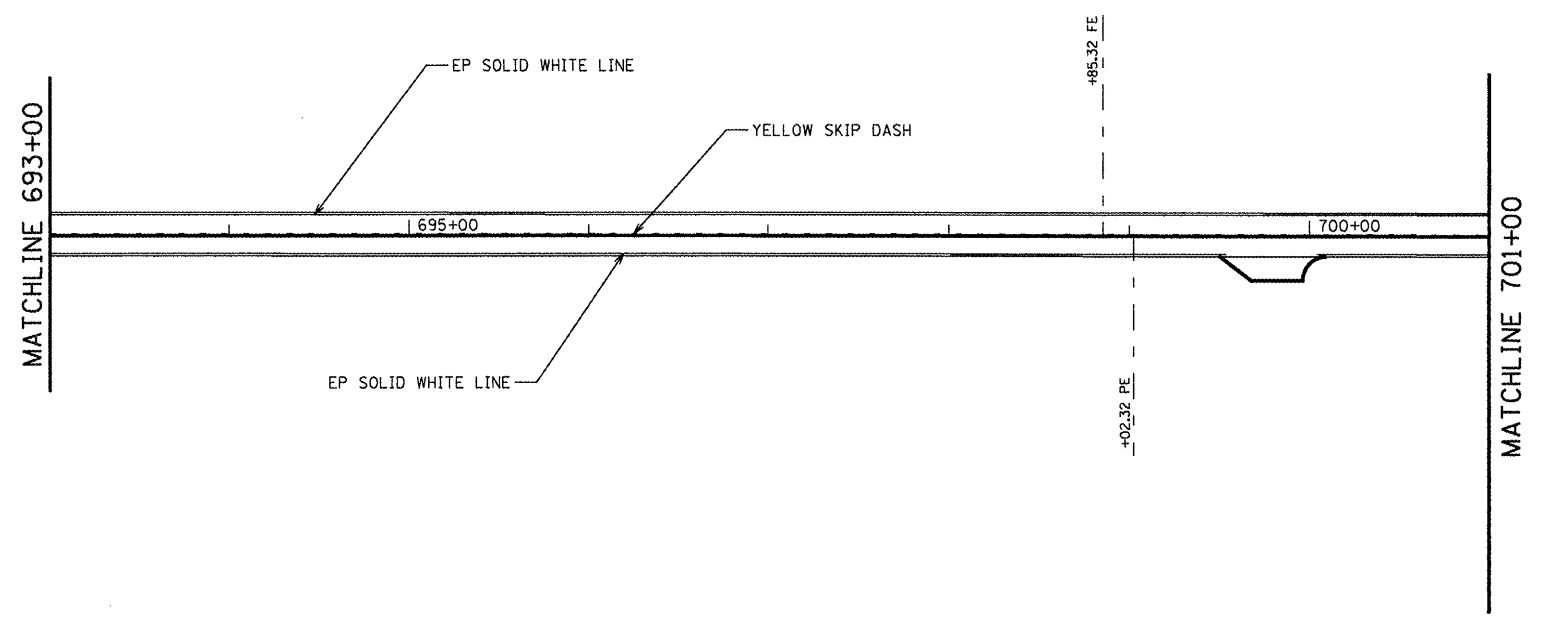
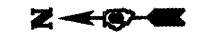
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24,25) RS-3	MARTON	27	20
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76876	



FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKINGS PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = #SCALE#	DRAWN - ---	REVISED - ---			322	(24,25) RS-3	MARION	27	21		
	PLOT DATE = #DATE#	CHECKED - ---	REVISED - ---			CONTRACT NO. 76B76						
				SCALE: 50		SHEET NO. 21 OF 27 SHEETS		STA. 648+00 TO STA. 678+00			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

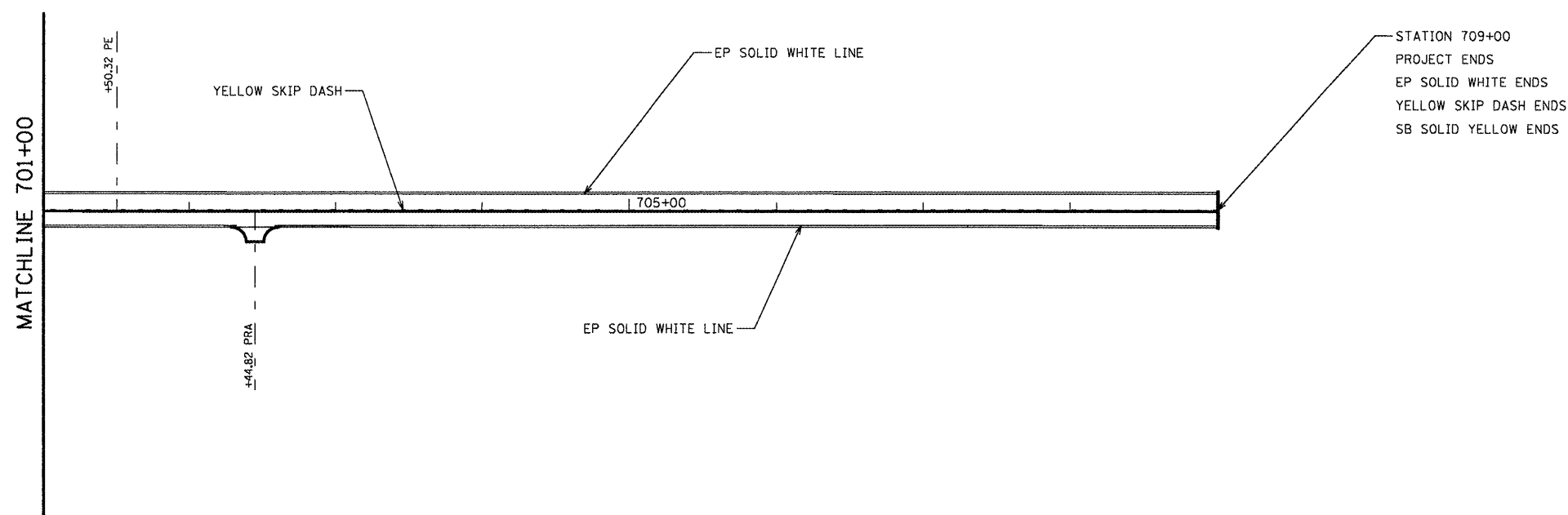


NOTE: EOP LINES DO NOT GO THROUGH INTERSECTING SIDE ROADS



NOTE: EOP LINES DO NOT GO THROUGH INTERSECTING SIDE ROADS

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKINGS PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILE#	PLOT SCALE = *SCALE*	DRAWN - ---	REVISED - ---			322	(24,25) RS-3	MARION	27	22	
PLOT DATE = *DATE*	DATE - -----	CHECKED - ---	REVISED - ---			CONTRACT NO. 76B76					
			REVISED - ---			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE: 50	SHEET NO. 22 OF 27 SHEETS		STA. 678+00 TO STA. 701+00			



NOTE: EOP LINES DO NOT GO THROUGH INTERSECTING SIDE ROADS

FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKINGS PLAN VIEW	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - ---	REVISED - ---			322	(24,25) RS-3	MARION	27	23	
PLOT SCALE = #SCALE#		CHECKED - ---	REVISED - ---			CONTRACT NO. 76876					
PLOT DATE = #DATE#		DATE - -----	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					
				SCALE: 50		SHEET NO. 23 OF 27 SHEETS		STA. 701+00 TO STA. 709+00			

SCHEDULE OF QUANTITIES

STATION	DIMENSIONS		U Bar		h Bar	CONCRETE COLLAR	REINF. BARS	EXP. BOLTS
	X	Y	No.	Length	No.	Cu. Yd	LBS	No.
STA. 575+80 (RT)	4'-8"	2'-2"	4	9'-0"	12	1.02	42.9	
STA. 576+07.15 (LT)	2'-8"	11"	4	4'-6"	8	0.82	24.7	
All h Bars 450 (18) Long						Total	1.84	67.6

General Notes

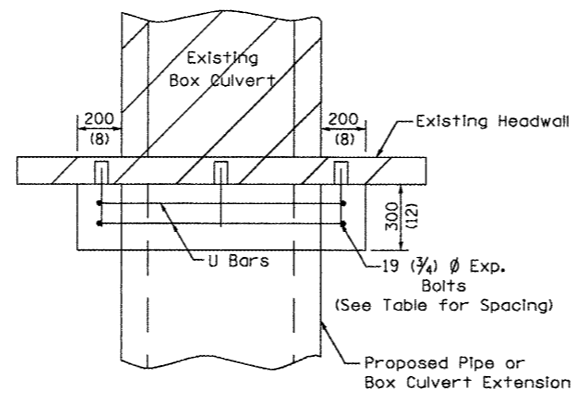
CONCRETE COLLARS SHALL BE CONSTRUCTED OF CLASS S1 CONCRETE IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS.

REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATIONS.

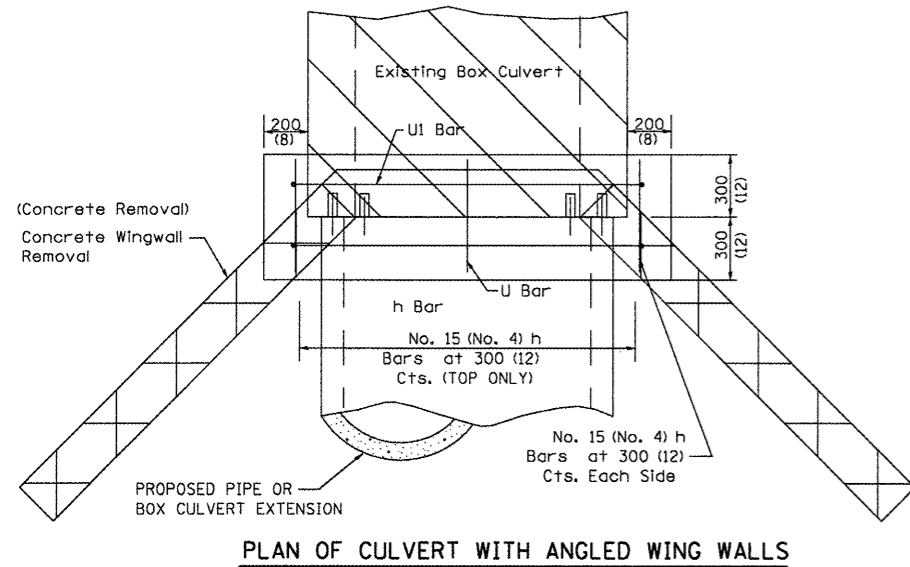
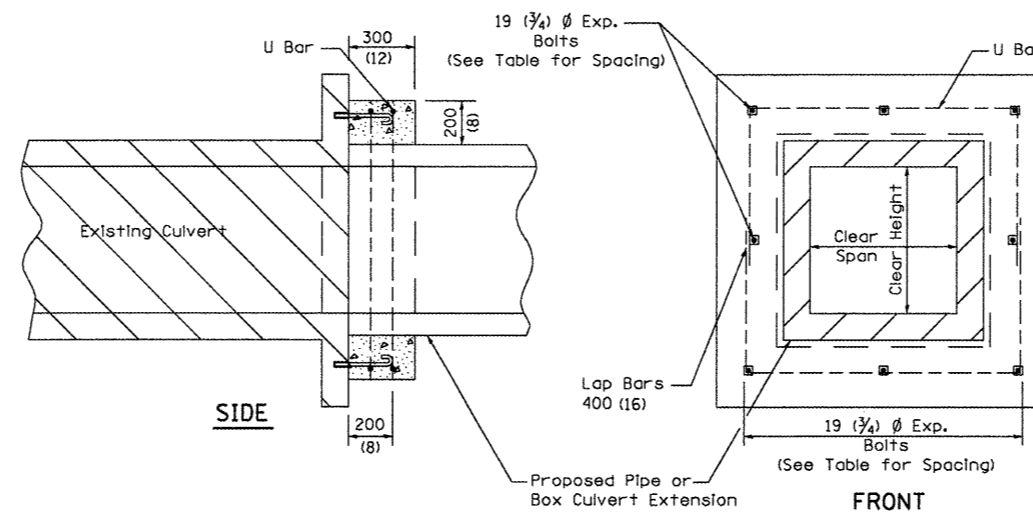
THE CONCRETE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR. REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER POUND FOR REINFORCEMENT BARS. EXPANSION BOLTS, WHEN REQUIRED, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR EXPANSION BOLTS OF THE SIZE INDICATED, WHICH PRICE SHALL INCLUDE FURNISHING, DRILLING HOLES, AND INSTALLING THE EXPANSION BOLTS COMPLETE IN PLACE. THESE BOLTS SHALL EXTEND AT LEAST 8 INCHES INTO THE NEW CONCRETE.

ONCE THE CONSTRUCTION OF THE PRECAST REINFORCED CONCRETE FLARED END SECTIONS ARE COMPLETED, BACK FILL IS REQUIRED AROUND THE END SECTIONS TO HAVE CONSISTENT GRADE WHICH MATCHES THE SURROUNDING CONDITIONS. THIS WORK SHALL BE APPROVED BY THE ENGINEER.

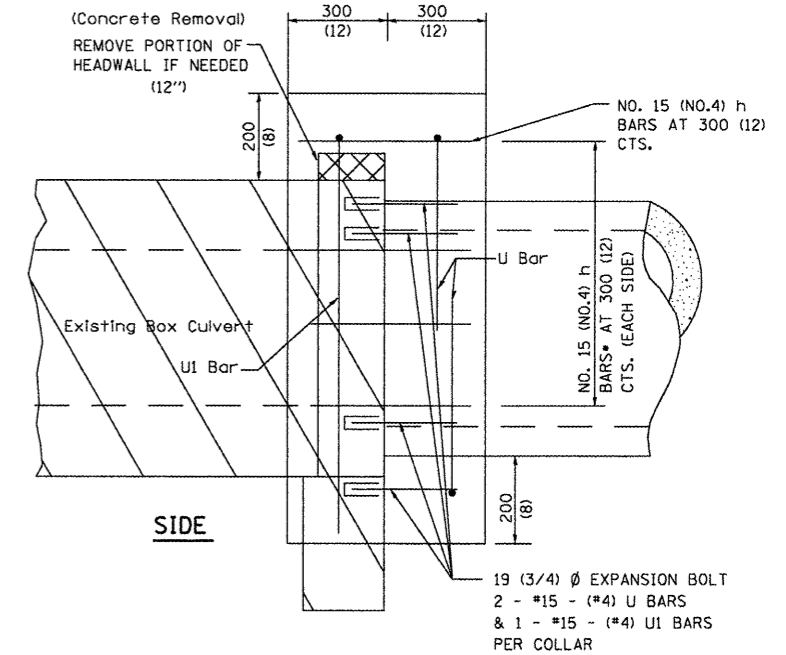
THE CONTRACTOR MAY BE REQUIRED TO REMOVE BRUSH AND TREES TO CONSTRUCT THE P.R.C.F.E.S EXTENSIONS. THE PRICE SHALL BE INCLUDED IN THE PRICE PER EACH FOR PRECAST REINFORCED CONCRETE FLARED END SECTIONS OF THE TYPE SPECIFIED.



PLAN OF CULVERT WITH STRAIGHT HEADWALL



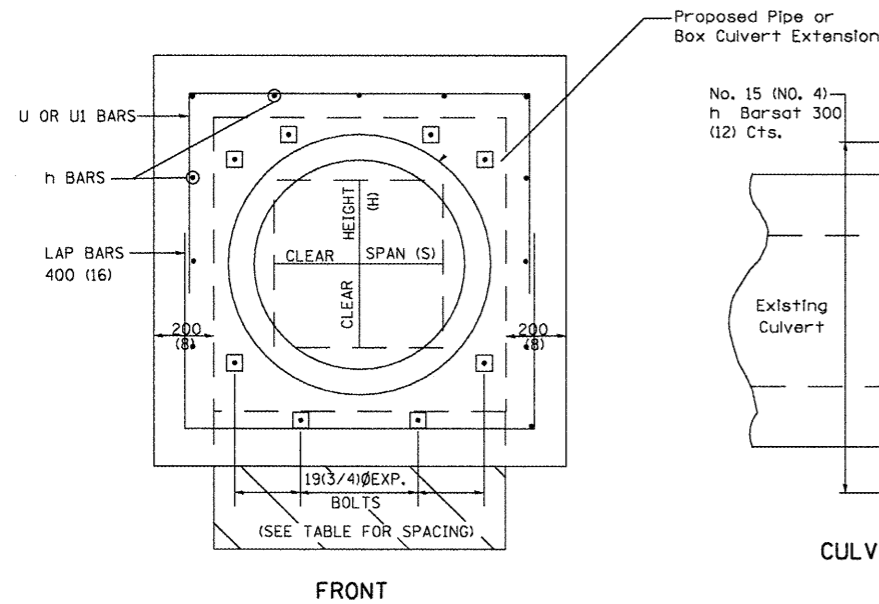
PLAN OF CULVERT WITH ANGLED WING WALLS



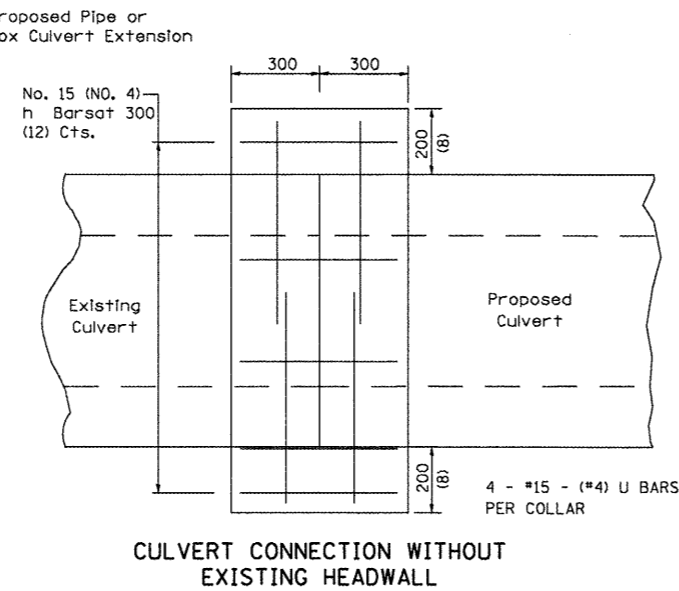
PLACEMENT DETAILS FOR EXPANSION BOLTS

H OR S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 4.57m (15')		EXTENSIONS > 4.57m (15')	
	NUMBER	SPACING	NUMBER	SPACING
600 (24)	*		*	
750 (30)	2	450 (18)	2	450 (18)
900 (36)	2	600 (24)	2	600 (24)
1200 (48)	3	450 (18)	3	450 (18)
1500 (60)	4	400 (16)	3	600 (24)
1800 (72)	5	375 (15)	4	500 (20)
2100 (84)	5	450 (18)	4	600 (24)
2400 (96)	6	375 (15)	5	525 (21)
2700 (108)	6	475 (19)	5	600 (24)
3000 (120)	7	450 (18)	6	525 (21)
3300 (132)	8	425 (17)	6	600 (24)
3600 (144)	8	475 (19)	7	550 (22)

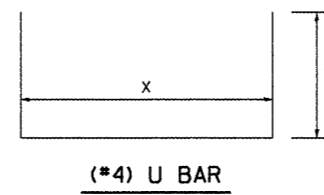
* MINIMUM ONE PER SIDE



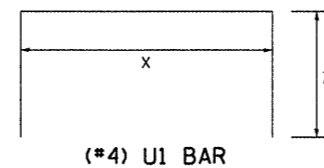
FRONT



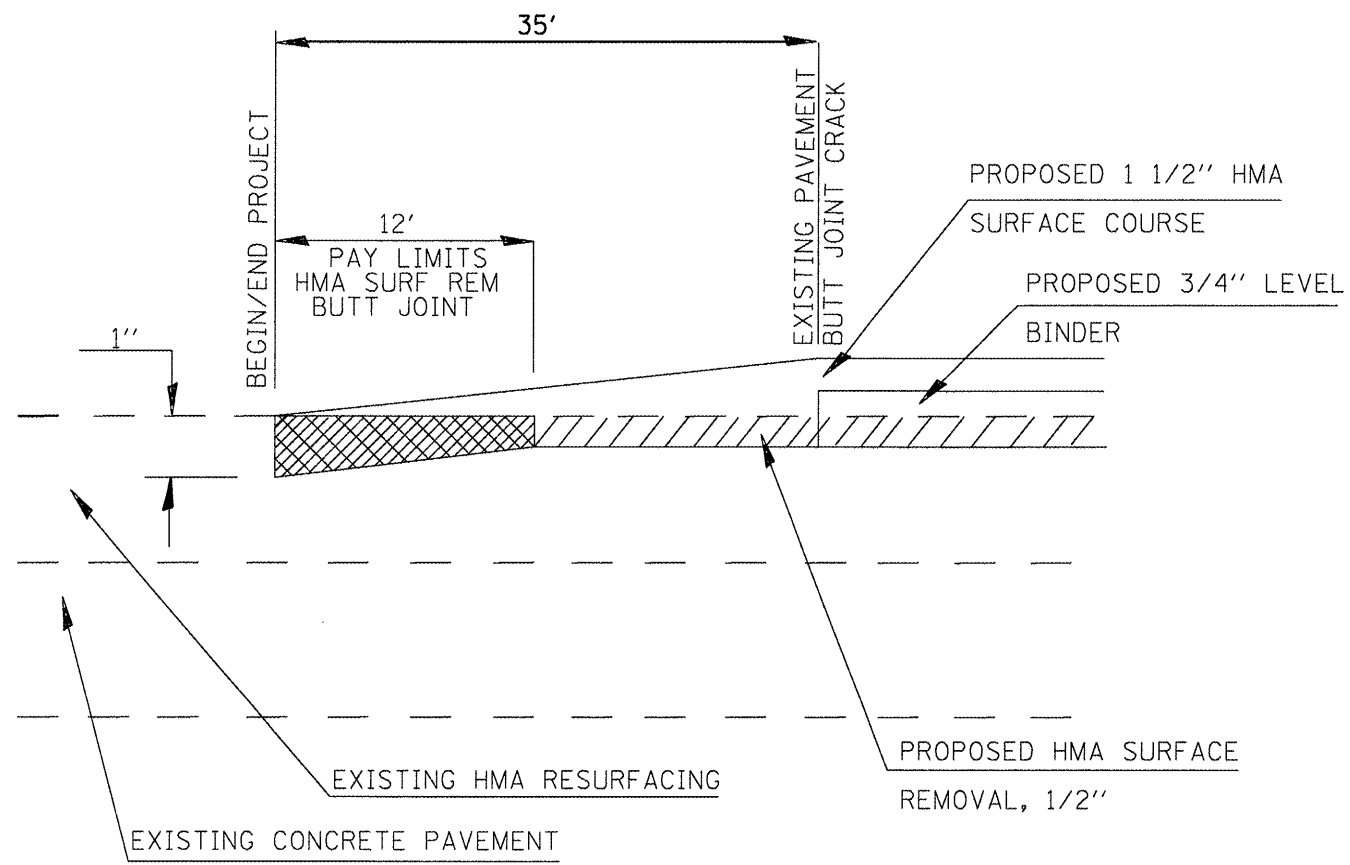
CULVERT CONNECTION WITHOUT EXISTING HEADWALL



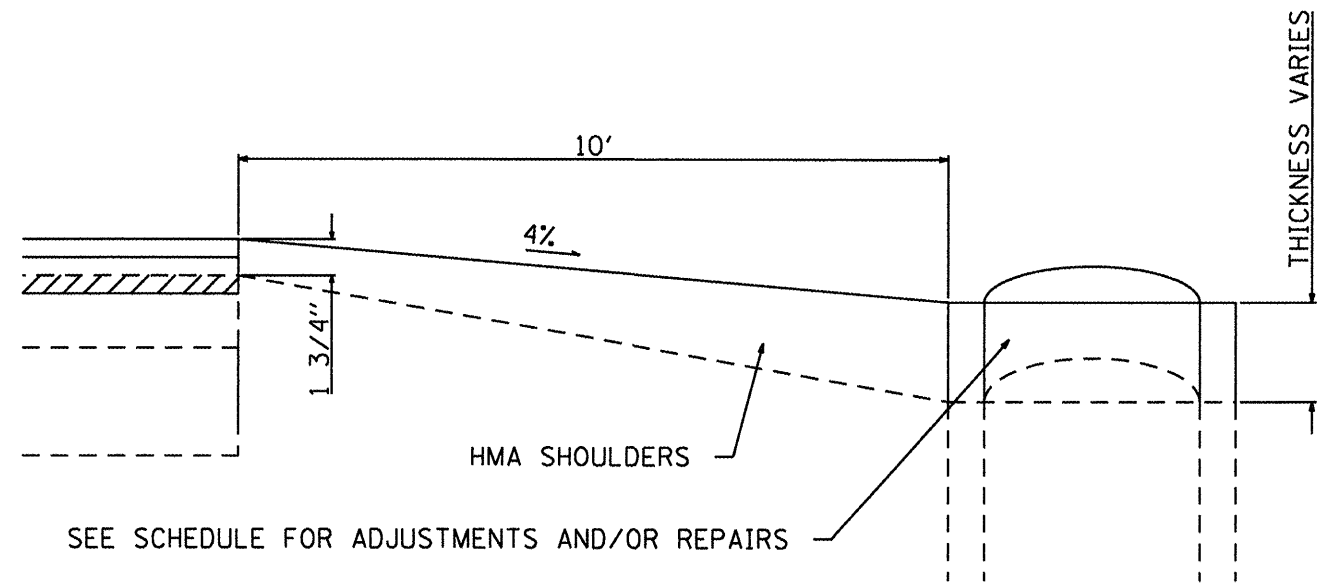
(#4) U BAR



(#4) U1 BAR

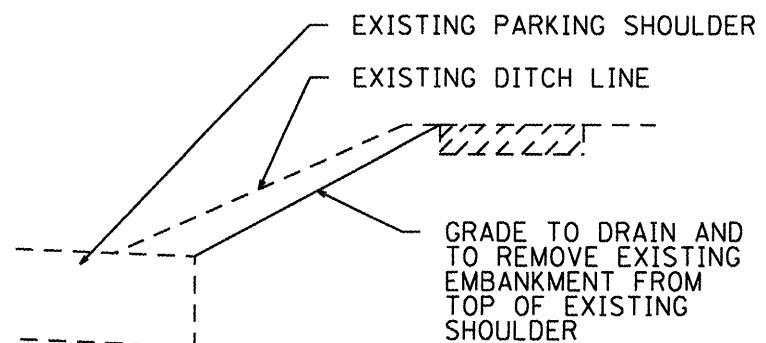


BUTT JOINT DETAIL



SHOULDER DETAIL
LOCATIONS 7W & 6E

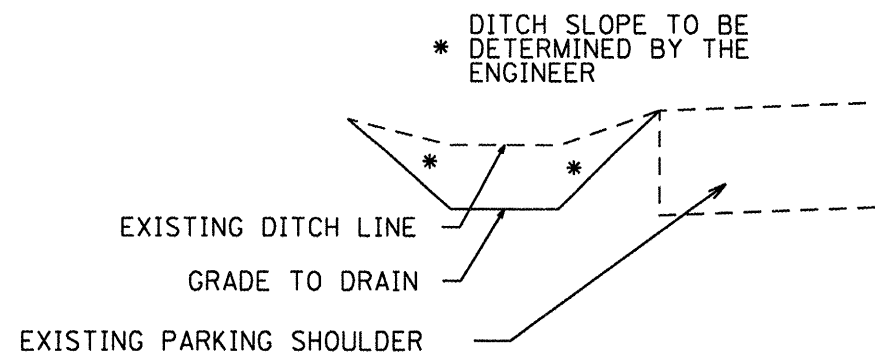
FILE NAME *	USER NAME * #USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT-JOINT AND SHOULDER DETAIL	F.A.P. RTE. *	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - ---	REVISED - ---			322	(24,25)RS-3	MARION	27	25	
PLOT SCALE * #SCALE*		CHECKED - ---	REVISED - ---			CONTRACT NO. 76B76					
PLOT DATE * #DATE*		DATE - -----	REVISED - ---			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE: -----	SHEET NO. 25 OF 27 SHEETS		STA. ----- TO STA. -----			



DITCH CLEAN DETAIL

LOCATION

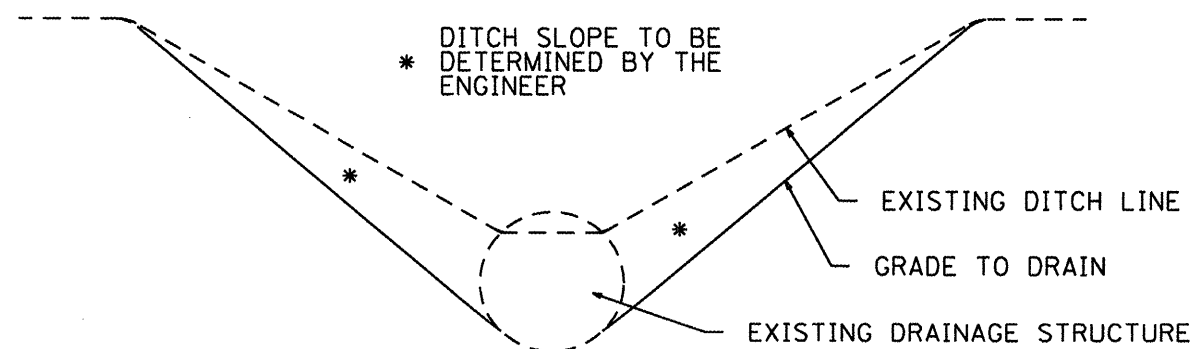
- 2E TO 576+18 (LT)
- 3E TO 4E
- 4E TO 5E
- 5E TO 580+69 (LT)



DITCH CLEAN DETAIL

LOCATIONS

- 576+69 (RT) TO 2W
- 3W TO 580+69 (RT)



DITCH CLEANING DETAIL

LOCATION

- 587+95 (LT) TO 588+35 (LT)
- 588+85 (LT) TO 589+01 (LT)
- 589+41 (LT) TO 592+78 (LT)
- 593+18 (LT) TO 594+15 (LT)
- 594+48 (LT) TO 596+08 (LT)

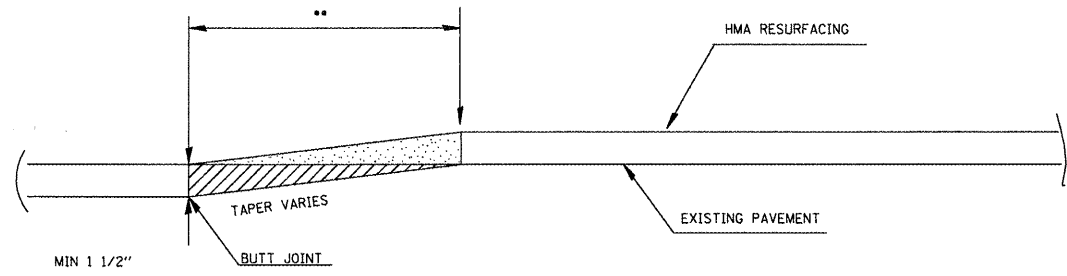
FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---
#FILE#		DRAWN - ---	REVISED - ---
	PLOT SCALE = #SCALE#	CHECKED - ---	REVISED - ---
	PLOT DATE = #DATE#	DATE - ---	REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DITCH CLEANING DETAILS

SCALE: SHEET NO. 26 OF 27 SHEETS STA. TO STA.

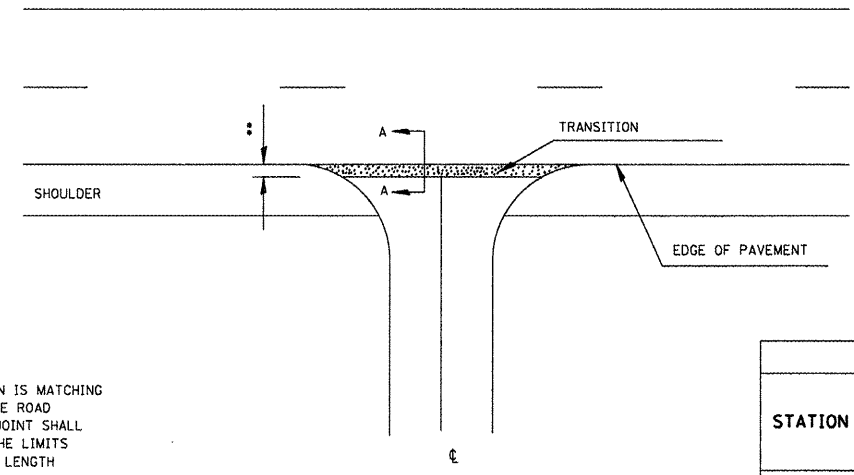
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24,25)RS-3	MARION	27	26
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 76B76	



**TRANSITION DETAIL
SECTION A-A**

BUTT-JOINT ADDITION

BUTT JOINT WIDTH (**)
10' OUTSIDE AREA OF 10' WIDE SHOULDERS
17.5' INSIDE AREA OF 10' WIDE SHOULDERS

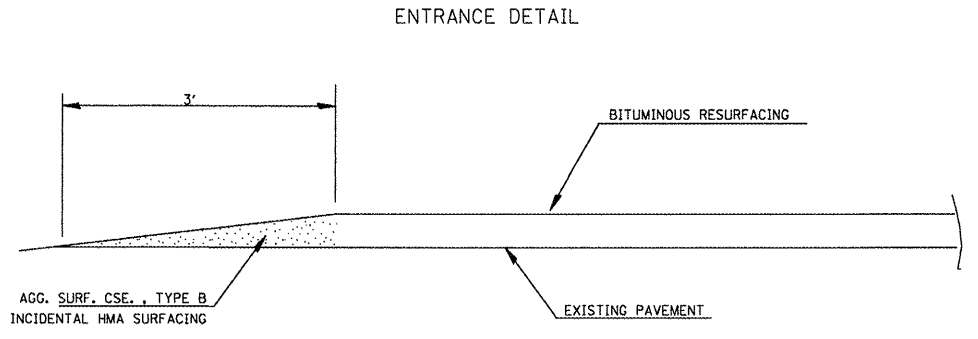


**SIDEROAD DETAIL
BUTT JOINT**

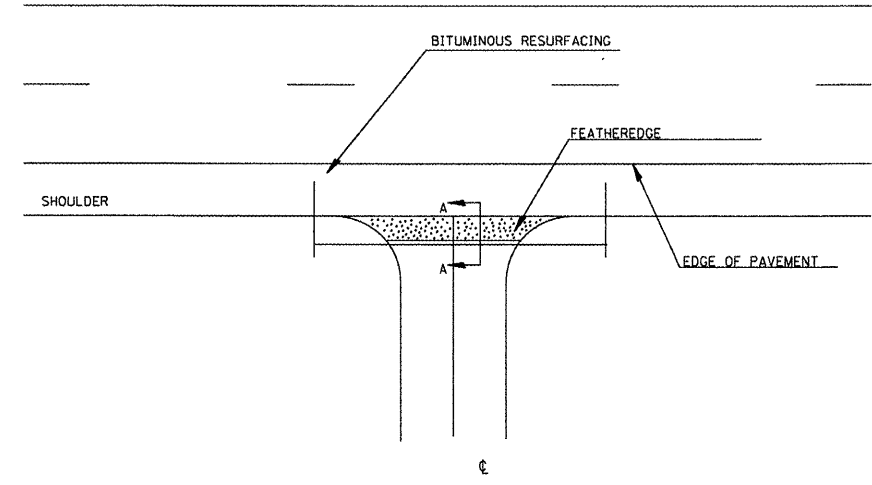
NOTE:
WHERE THE HMA TRANSITION IS MATCHING INTO AN EXISTING HMA SIDE ROAD SURFACE, A MILLED BUTT JOINT SHALL BE CONSTRUCTED WITHIN THE LIMITS OF THE TOTAL TRANSITION LENGTH ON THE LOCAL ROUTE.

*EOP ELEVATION CHANGE	**TOTAL TRANSITION LENGTH
3/4"	3.5'
1"	5'
1-1/2"	7.5'
2"	10'
2-1/2"	12.5'
3"	15'
3-1/2"	17.5'
4"	20'
4-1/2"	22.5'
5"	25'
5-1/2"	27.5'
6"	30'

BUTT-JOINT SCHEDULE				
STATION	LOCATION	EXISTING MATERIAL	HMA SURF REM BUTT-JOINT	TEMPORARY RAMP
			SQ YD	SQ YD
502+50	MAINLINE	HMA	34	17
503+65	RIGHT	HMA	65	17
503+81	LEFT	HMA	72	20
522+75	MAINLINE	HMA	34	17
524+95	MAINLINE	HMA	34	17
537+34.8	LEFT	HMA	54	12
571+14	LEFT	OIL & CHIP	54	12
573+78	RIGHT	OIL & CHIP	80	12
573+78	LEFT	OIL & CHIP	80	12
579+06	RIGHT	OIL & CHIP	80	12
579+06	LEFT	OIL & CHIP	80	12
582+75.6	RIGHT	OIL & CHIP	87	14
582+75.6	LEFT	OIL & CHIP	87	14
637+14	LEFT	CONC.	59	14
637+14	RIGHT	OIL & CHIP	54	12
684+70	MAINLINE	HMA	34	17
691+05	MAINLINE	HMA	34	17
700+50	RIGHT	HMA	45	7
701+55.6	RIGHT	HMA	45	7
702+08.4	RIGHT	HMA	45	7
703+14	MAINLINE	HMA	34	17
TOTAL =			1191	286



**FEATHEREDGE DETAIL
SECTION A-A**



ENTRANCE DETAIL

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---
*FILE#		DRAWN - ---	REVISED - ---
	PLOT SCALE = *SCALE*	CHECKED - ---	REVISED - ---
	PLOT DATE = *DATE*	DATE - ---	REVISED - ---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIDEROAD AND ENTRANCE DETAIL
SCALE: _____ SHEET NO. 27 OF 27 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	(24,25)RS-3	MARION	27	27
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 76876	