

06-13-14 LETTING ITEM 132

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

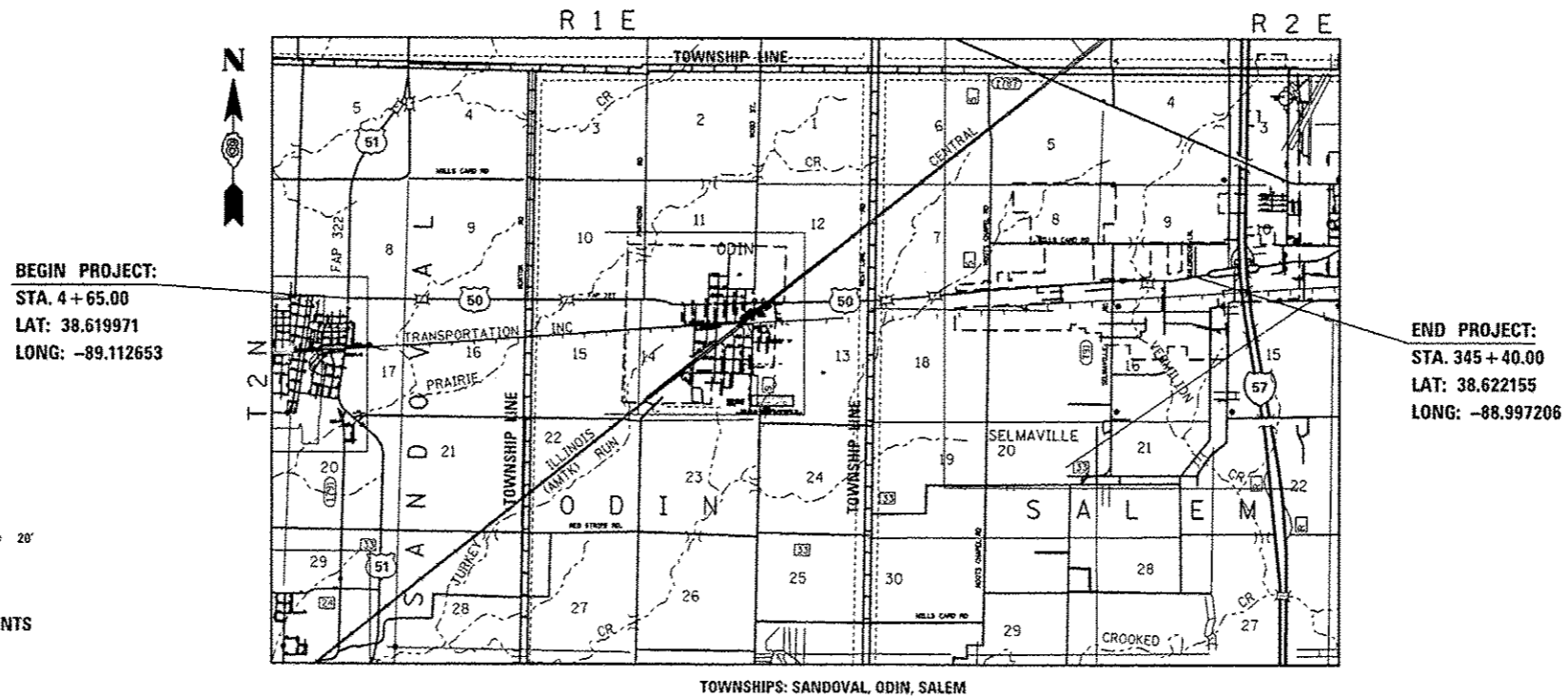
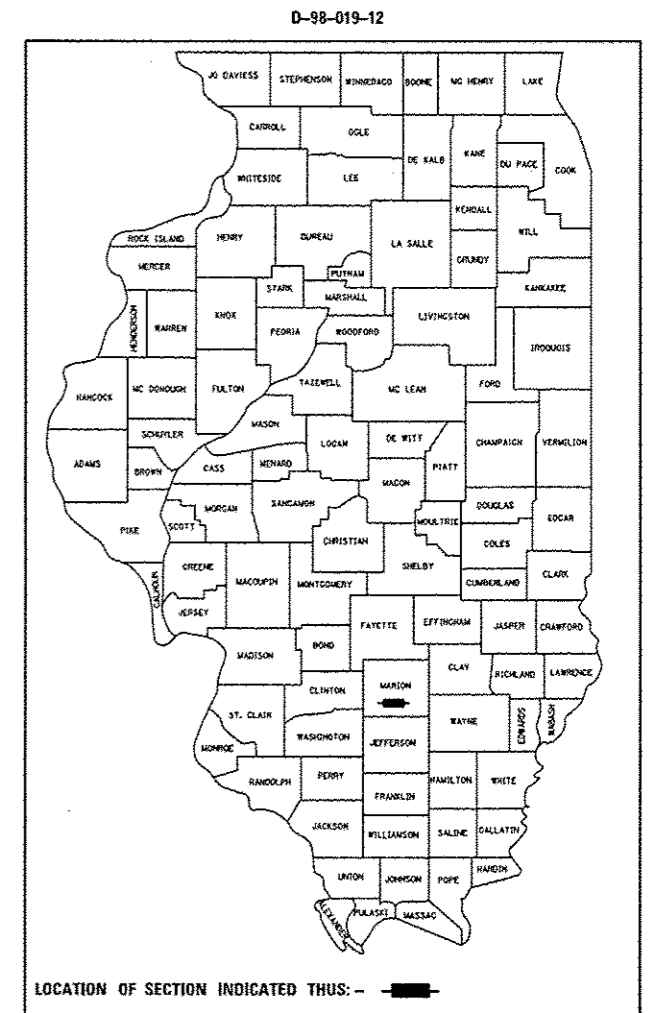
**PROPOSED
HIGHWAY PLANS**

FAP 327 ROUTE (US 50)
SECTION (16,17,18)RS-3
PROJECT ACNHPP-0327(060)
3P-RESURFACING & PATCHING
MARION COUNTY

C-98-019-12

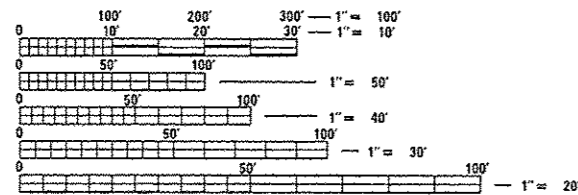
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	1
		ILLINOIS	CONTRACT NO. 76F28	

FOR INDEX OF SHEETS, SEE SHEET NO. 2



BEGIN PROJECT:
STA. 4+65.00
LAT: 38.619971
LONG: -89.112653

END PROJECT:
STA. 345+40.00
LAT: 38.622155
LONG: -88.997206



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: MIKE PRITCHETT (618)-346-3180
PROJECT MANAGER: GWEN LAGEMANN (618)-346-3181

CONTRACT NO. 76F28

GROSS LENGTH = 34,075 FT. = 6.45 MILES
NET LENGTH = 33,684 FT. = 6.38 MILES

FUNCTIONAL CLASSIFICATION:
OTHER ARTERIAL

ADT
2011 = 10,700 (ACTUAL)
2013 = 10,950 (ESTIMATED)
2031 = 13,350 (ESTIMATED)
S.U. = 3.0%
M.U. = 7.0%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Mar 21 20 14*

Jeffrey L. K...
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

May 9 20 14
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 20 14
Orhan Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

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- 72. PAVEMENT MARKING DETAILS
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- 77.-82. JOINT REPLACEMENT DETAIL SHEETS
- 83. STEEL RAILING, TYPE 2399 DETAIL SHEET

- 5. THE THICKNESS OF THE HMA 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 HMA MIXTURE IS PLACED.
- 6. 'ROAD CONSTRUCTION AHEAD' SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDEROADS, AND WILL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE AND 48" X 48".
- 7. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
- 8. ALL TEMPORARY PAVEMENT MARKING SHALL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 9. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTORS EXPENSE.
- 10. ALL EXISTING RIGHT-OF-WAY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP.
- 11. AN ADDITIONAL QUANTITY OF 183 SOYD HMA SHOULDER REMOVAL AND REPLACEMENT HAS BEEN ADDED FOR STAGED CONSTRUCTION BUT MAY NOT BE NEEDED. NO ADDITIONAL COMPENSATION FOR ADDING HMA SHOULDER REQUIRED FOR CONTRACTOR STAGING.
- 12. ALL PATCHING STATIONS ARE APPROXIMATE AND ARE TO BE LOCATED AS DIRECTED BY THE RESIDENT ENGINEERS.
- 13. ALL EARTHWORK REQUIRED TO MEET STANDARD 630301-06 SHALL BE INCLUDED IN THE COST OF TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT.
- 14. THE THICKNESS OF CLASS A PATCH OVER S.N. 061-2456 WILL VARY TO OBTAIN THE NECESSARY CROSS SLOPE. A NOMINAL 15" WAS USED FOR QUANTITY CALCULATIONS.
- 15. A QUANTITY OF HMA PARTIAL DEPTH PATCHING HAS BEEN INCLUDED FOR LOCATIONS DIRECTED BY THE ENGINEER.
- 16. ALL EARTHWORK REQUIRED FOR PCC SIDEWALK CONSTRUCTION SHALL BE INCLUDED IN THE COST OF PCC SIDEWALK, 4".
- 17. CURB RAMPS, PCC SIDEWALK AND COMBINATION CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD 424001-07 AND STANDARD 606001-05. MINOR DEVIATIONS TO ACCOMMODATE EXISTING CONDITIONS ARE PERMISSIBLE UPON APPROVAL BY THE ENGINEER.
- 18. THE INTENT OF GUARDRAIL INSTALLATION IN THIS CONTRACT IS TO LOCATE THE FACE OF THE GUARDRAIL AT THE EDGE OF THE AGGREGATE SHOULDER WHILE PROVIDING A MINIMUM OF 2' FLAT AREA BEHIND THE GUARDRAIL POST.
- 19. ALL EARTHWORK REQUIRED TO CONSTRUCT HMA SHOULDERS, 8", SHALL BE INCLUDED IN THE COST OF HMA SHOULDERS, 8".
- 20. ALL EARTHWORK REQUIRED TO CONSTRUCT CONCRETE CURB, TYPE B, SHALL BE INCLUDED IN THE COST OF CONCRETE CURB, TYPE B.
- 21. ALL SAW CUTS REQUIRED FOR REMOVAL ITEMS (EXCEPT PATCHING) SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE REMOVED.

GENERAL NOTES

- 1. THE STANDARDS AND REVISION NUMBERS LISTED SHALL APPLY TO THIS PROJECT.
- 2. 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	AERIAL, BURIED
•AT&T ILLINOIS - COMMUNICATIONS	AERIAL, BURIED
•CHARTER COMMUNICATIONS, INC. - CABLE TV	AERIAL, BURIED
•FAIRPOINT COMMUNICATIONS - COMMUNICATIONS	AERIAL, BURIED
•FMC WATER COMPANY - WATER	BURIED
•FRONTIER NORTH, INC. - COMMUNICATIONS	AERIAL, BURIED
•VILLAGE OF ODIN - WATER	BURIED
•MCLEOD TELECOMMUNICATIONS SERVICES, LLC - COMMUNICATIONS	AERIAL, BURIED
•CITY OF SALEM - GAS	BURIED
•CITY OF SALEM - WATER & SANITARY SEWER	BURIED
•VILLAGE OF SANDOVAL - WATER & SANITARY SEWER	BURIED
•SHELL PIPELINE COMPANY LP - PIPELINE	BURIED
•TRI-COUNTY ELECTRIC COOPERATIVE, INC. - ELECTRIC	AERIAL
•US SONET, LLC - COMMUNICATIONS	AERIAL, BURIED

MEMBERS OF J.U.L.I.E. (800) 892-0123 OR 811 ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

3. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING, TOPOGRAPHY, AND QUANTITIES SHOWN IN THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

4. THE FOLLOWING HMA MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	PATCHING	INCIDENTAL SURF	PARTIAL DEPTH PATCH	SHOULDERS > 2.25"	SHOULDER < 2.25"
AV7PC	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP (MAX)	SEE SPEC.	SEE SPEC.	SEE SPEC.	SEE SPEC.	SEE CONTRACT RAP	SEE CONTRACT RAP
DESIGN AIR VOIDS					SPECIAL PROVISION	SPECIAL PROVISION
MIX COMPOSITION (GRADATION MIXTURE)	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=90	**2.0% @ Ndes=30	**2.0% @ Ndes=30
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "C"	MIXTURE "B"	NMAS 3/4"	NMAS 1/2"

**TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR HMA (HOT MIX ASPHALT) ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

COMMITMENTS

NO COMMITMENTS

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	ARES OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442001-04	CLASS A PATCHES
442201-03	CLASS D PATCHES
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
642006	SHOULDER RUMBLE STRIPS, 8"
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM EOP
701011-04	OFF ROAD OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE 2L, 2W, DAY ONLY, FOR SPEEDS > 45MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS DAY ONLY
701321-13	LANE CLOSURE, 2L, 2W
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS > 45MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME =	USER NAME = milleraj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, COMMITMENTS & STANDARDS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
o:\p\work\pudat\milleraj\8282380\06728-ht-plan.dgn	DRAWN -	REVISED -	327						(16,17,18)RS-3	MARION...	83	2	
PLOT SCALE = 100.0000' / in	CHECKED -	REVISED -	CONTRACT NO. 76F28										
PLOT DATE = 3/20/2014	DATE -	REVISED -	SCALE: NTS		SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			80% FED / 20% STATE				
			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	RURAL 0005	URBAN 0005	SN 061-0082 0014	SN 061-0066 0040
						RURAL	RURAL
25000200	SEEDING, CLASS 2	ACRE	0.1	0.1			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	9			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9			
25100630	EROSION CONTROL BLANKET	SQ YD	64	64			
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	64	64			
28100105	STONE RIPRAP, CLASS A3	SQ YD	124	124			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	41	35	6		
40600300	AGGREGATE (PRIME COAT)	TON	186	160.6	25.4		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	310	310			
40600990	TEMPORARY RAMP	SQ YD	758	348	410		
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	12561	9942	2619		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	16	12	4		

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CODE NO	ITEM	UNIT	TOTAL QUANTITIES	RURAL 0005	URBAN 0005	SN 061-0082 0014	SN 061-0066 0040
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	581		581		
42400800	DETECTABLE WARNINGS	SQ FT	100		100		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	104256	83996	20260		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	23227	2590	20637		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	72		72		
44000600	SIDEWALK REMOVAL	SQ FT	528		528		
44004250	PAVED SHOULDER REMOVAL	SQ YD	183	183			
44200610	CLASS A PATCHES, TYPE II, 13 INCH	SQ YD	709	570	139		
44200612	CLASS A PATCHES, TYPE III, 13 INCH	SQ YD	189	55	134		
44200614	CLASS A PATCHES, TYPE IV, 13 INCH	SQ YD	693	229	464		
44200631	CLASS A PATCHES, TYPE III, 15 INCH	SQ YD	30				30
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	71	63	8		
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	237	37	200		
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	95	75	20		

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SUMMARY OF QUANTITIES

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			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	RURAL 0005	URBAN 0005	SN 061-0082 0014	SN 061-0066 0040
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	165		165		
44213000	PATCHING REINFORCEMENT	SQ YD	1621	421	1200		
44213200	SAW CUTS	FOOT	7742	2013	5729		
44213204	TIE BARS 3/4"	EACH	240	62	178		
45200100	JOINT OR CRACK ROUTING (PC CONCRETE PAVEMENT AND SHOULDER)	FOOT	400	400			
45200300	JOINT OR CRACK FILLING	POUND	6479	6479			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	181	181			
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	647	647			
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	414	183		231	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	3503	3503			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1			
50102400	CONCRETE REMOVAL	CU YD	36	19		17	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	17.5			17.5	
50300300	PROTECTIVE COAT	SQ YD	55			55	

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CODE NO	ITEM	UNIT	TOTAL QUANTITIES	RURAL 0005	URBAN 0005	SN 061-0082 0014	SN 061-0066 0040
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2210			2210	
50800515	BAR SPLICERS	EACH	28			28	
50900200	STEEL RAILING, TYPE 2399	FOOT	125	125			
52000110	PREFORMED JOINT STRIP SEAL	FOOT	109			109	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2			
54010807	PRECAST CONCRETE BOX CULVERTS 8' X 7'	FOOT	64	64			
60255500	MANHOLES TO BE ADJUSTED	EACH	1		1		
60600605	CONCRETE CURB, TYPE B	FOOT	125	125			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	72		72		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	4663	4663			
* 63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	175	175			
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1			
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			

* SPECIALTY ITEM

FILE NAME :	USER NAME : milleraj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. R.T.E.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
o:\p\work\pudot\milleraj\0202200\0876728-wtt-plan.dgn		DRAWN -	REVISED -			327	(16,17,18)RS-3	MARION	83	4
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 76F28				
PLOT DATE = 3/20/2014		DATE -	REVISED -		SCALE: NTS	SHEET NO. 2 OF 3 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

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				RURAL 0005	URBAN 0005	SN 061-0082 0014	SN 061-0066 0040
CODE NO	ITEM	UNIT					
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	25	25			
63200310	GUARDRAIL REMOVAL	FOOT	5725	5725			
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	58924	58924			
64300430	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 2	EACH	4	2		2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	7	7		
67100100	MOBILIZATION	L SUM	1	0.7	0.3		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1		1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.7	0.3		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.7	0.3		
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0.5		0.5	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1			

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					RURAL 0005	URBAN 0005	SN 061-0082 0014	SN 061-0066 0040
CODE NO	ITEM	UNIT						
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	0.7	0.3			
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	0.7	0.3			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.7	0.3			
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1		1		
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6		6		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	15934	11941	3993			
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	1077	406	671			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	113484	109784	3700			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	257		257			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1596	1290	306			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	98	48	50			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	43481	25088	18393			

* SPECIALTY ITEM

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ar\pwwork\pwwork\milleraj\d0202388\d0202388-ahp\plan.dgn						327	(16,17,18)RS-3	MARION	83	5	
PLOT SCALE = 100,0000' / 1" / 1"						CHECKED: -	REVISED: -	CONTRACT NO. 76F28			
PLOT DATE = 3/20/2014						DATE: -	REVISED: -	SCALE: NTS SHEET NO. 3 OF 3 SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

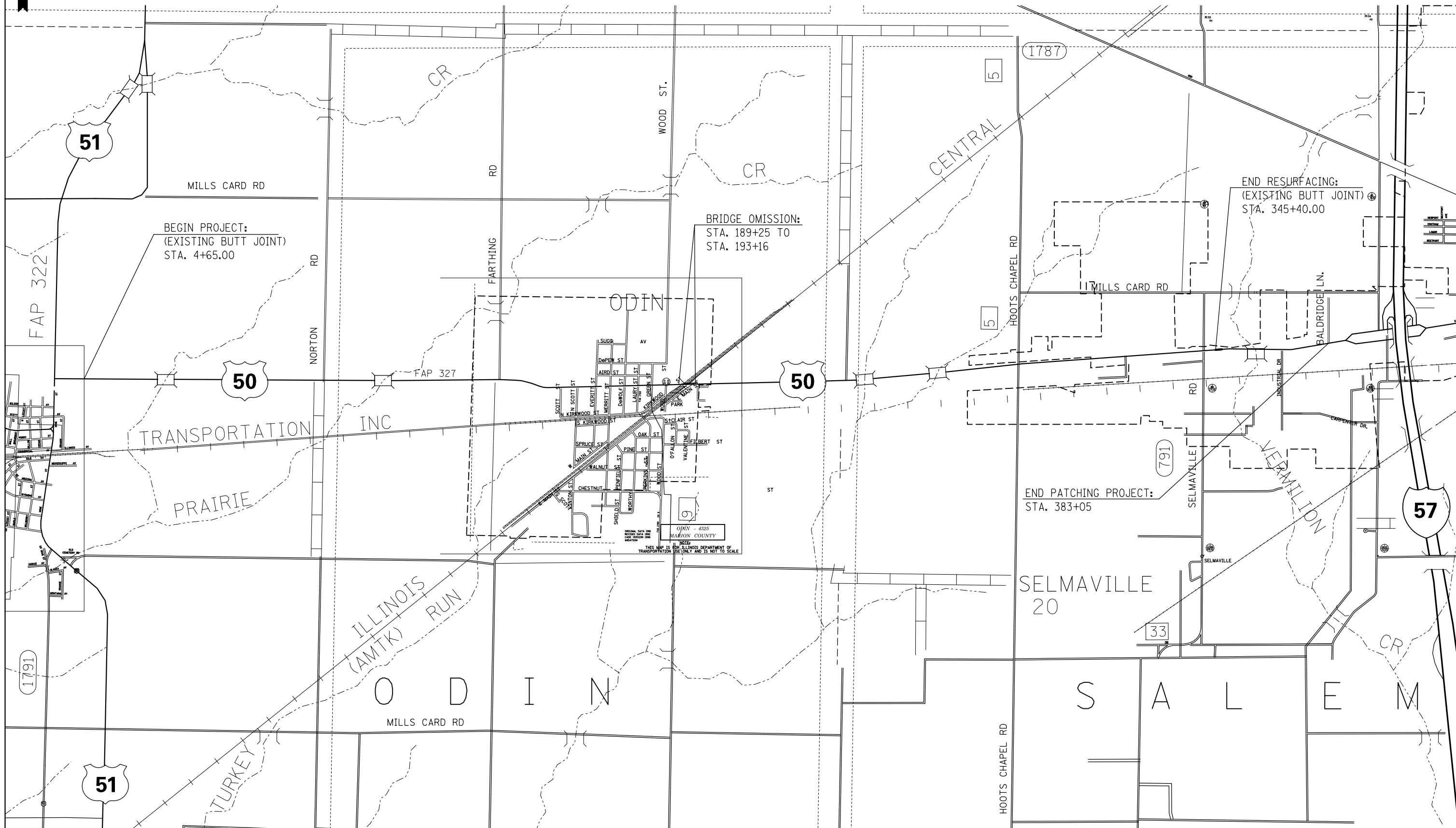
SUMMARY OF QUANTITIES

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CODE NO	ITEM	UNIT	TOTAL QUANTITIES	RURAL 0005	URBAN 0005	SN 061-0082 0014	SN 061-0066 0040
70400100	TEMPORARY CONCRETE BARRIER	FOOT	727	181		546	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	727	181		546	
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	4	2		2	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1077	406	671		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	113484	109784	3700		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	257		257		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1596	1290	306		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 2.4"	FOOT	98	48	50		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	701	510	191		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	106	106			
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	25	25			

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CODE NO	ITEM	UNIT	TOTAL QUANTITIES	RURAL 0005	URBAN 0005	SN 061-0082 0014	SN 061-0066 0040
78300100	PAVEMENT MARKING REMOVAL	SQ FT	471	471			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	697	506	191		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1		1	
X0323265	REMOVE EXISTING RIPRAP	SQ YD	66	66			
X4406040	PARTIAL DEPTH REMOVAL, TYPE I, 4"	SQ YD	171	98	73		
X4406240	PARTIAL DEPTH REMOVAL, TYPE II, 4"	SQ YD	113	95	18		
X4421000	PARTIAL DEPTH PATCHING	TON	14	10	4		
Ø 20076600	TRAINEES	HR	1000	500	500		
Ø 20076604	TRAINEES TRAINING PROGRAM GRADUATE	HR	1000	500	500		
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	4	2		2	

* SPECIALTY ITEM

Ø 0042



FILE NAME =
 et:\p\work\p\midot\milleraj\02282308\0876f28-sht-plan.dgn

USER NAME = milleraj
 DRAWN -
 PLOT SCALE = 100.0000' / in.
 CHECKED -
 DATE -

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

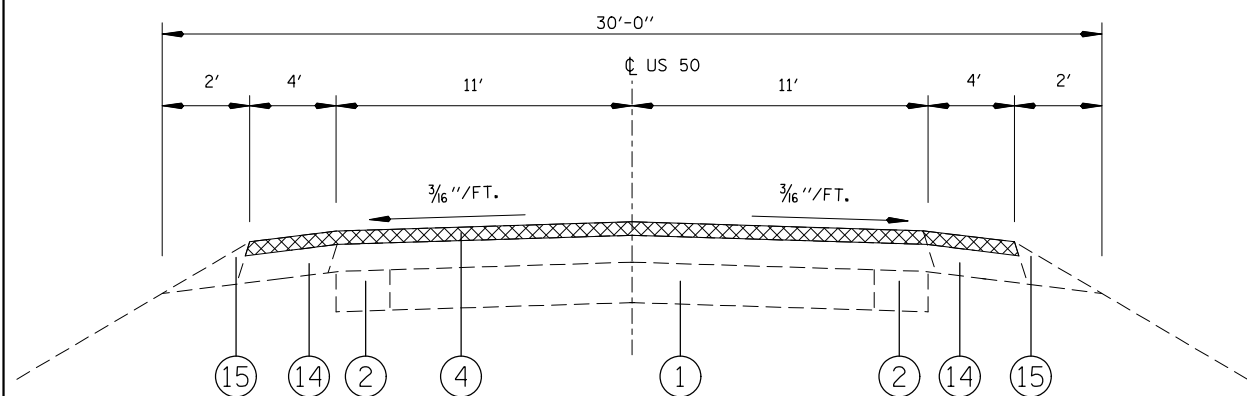
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY LAYOUT

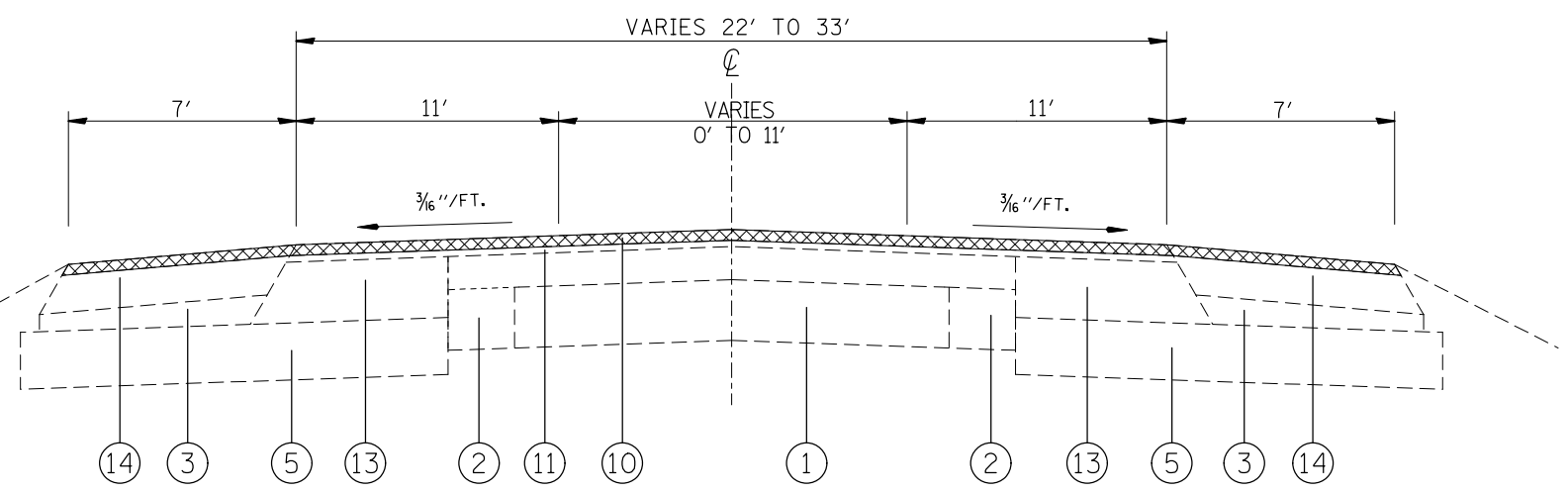
SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	7
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



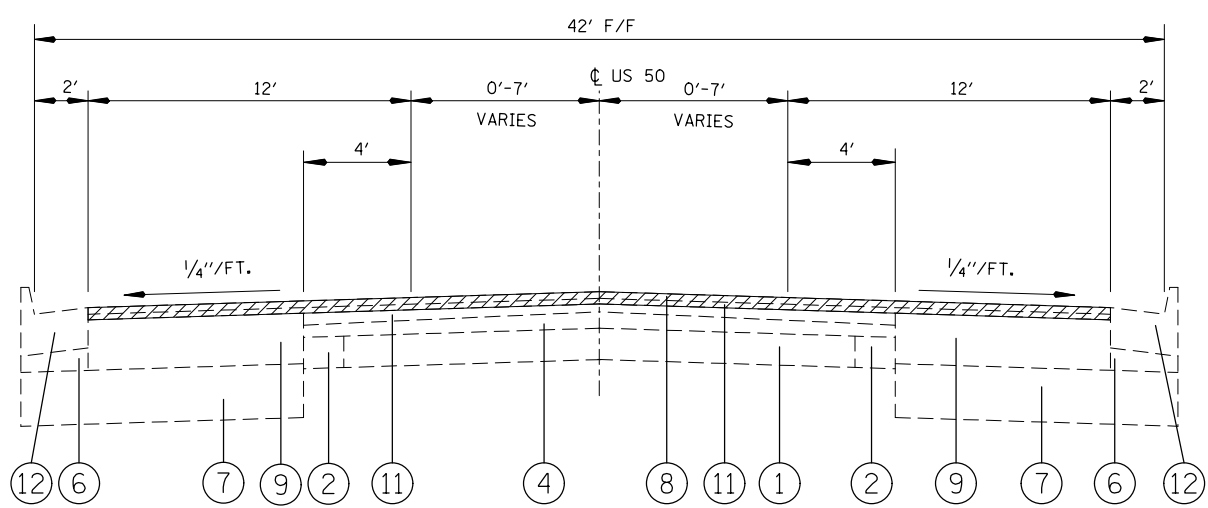
EXISTING TYPICAL SECTION

STA. 4+65.00 TO STA. 153+73.00
 STA. 193+16.00 TO STA. 245+37.00
 STA. 269+57.00 TO STA. 282+44.00
 STA. 295+25.00 TO STA. 335+53.00



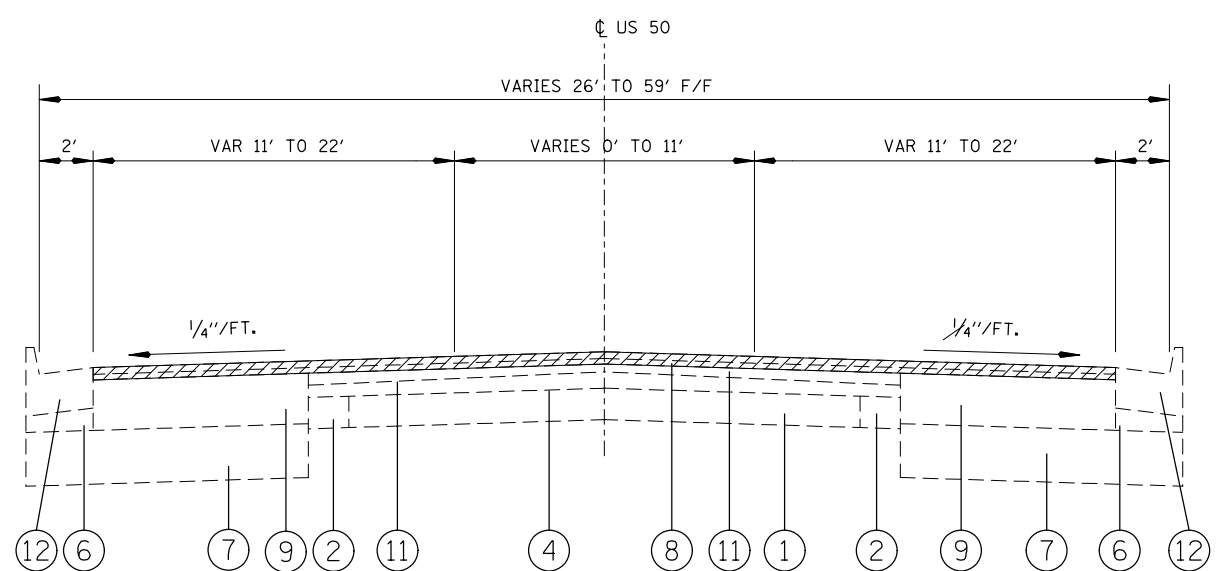
EXISTING TYPICAL SECTION

STA. 245+37.00 TO STA. 269+57.00



EXISTING TYPICAL SECTION

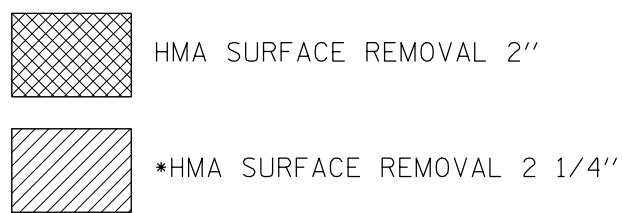
*STA. 153+73.00 TO STA. 189+25.00



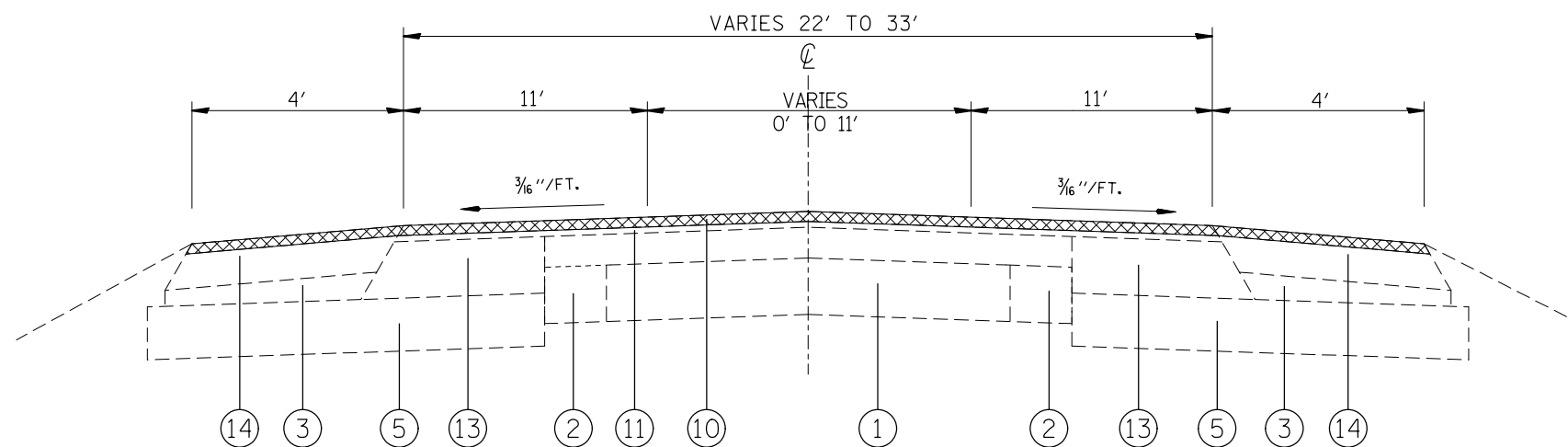
EXISTING TYPICAL SECTION

STA. 339+00.00 TO STA. 345+40.00

- ① EXISTING P.C.C. PAVEMENT
- ② EXISTING CONCRETE BASE COURSE WIDENING
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C
- ④ EXISTING HMA SURFACE
- ⑤ EXISTING AGGREGATE BASE COURSE, TYPE A 12"
- ⑥ EXISTING LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL TYPE C
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I, TYPE 2, 1 1/2"
- ⑨ EXISTING BITUMINOUS BASE COURSE 1 1/4"
- ⑩ EXISTING HMA SURFACE COURSE 1 1/2"
- ⑪ EXISTING HMA LEVEL BINDER (MM), TYPE 2, 3/4"
- ⑫ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑬ EXISTING HMA BASE COURSE WIDENING 11 1/2"
- ⑭ EXISTING HMA SHOULDERS 8"
- ⑮ EXISTING AGGREGATE SHOULDER



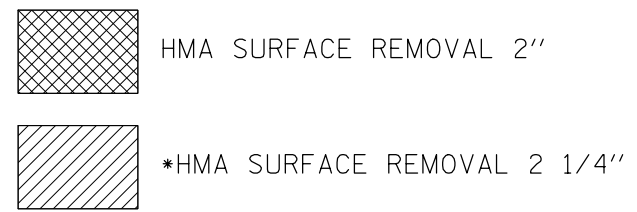
- ⑯ PROPOSED HMA SURFACE COURSE, MIX N90, 2 1/4"
- ⑰ PROPOSED AGGREGATE PRIME COAT
- ⑱ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- ⑲ PROPOSED HMA SHOULDERS
- ⑳ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ㉑ PROPOSED SHOULDER RUMBLE STRIP



EXISTING TYPICAL SECTION

STA. 282+44.00 TO STA. 295+25.00

- ① EXISTING P.C.C. PAVEMENT
- ② EXISTING CONCRETE BASE COURSE WIDENING
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C
- ④ EXISTING HMA SURFACE
- ⑤ EXISTING AGGREGATE BASE COURSE, TYPE A 12"
- ⑥ EXISTING LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL TYPE C
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I, TYPE 2, 1 1/2"
- ⑨ EXISTING BITUMINOUS BASE COURSE 1 1/4"
- ⑩ EXISTING HMA SURFACE COURSE 1 1/2"
- ⑪ EXISTING HMA LEVEL BINDER (MM), TYPE 2, 3/4"
- ⑫ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑬ EXISTING HMA BASE COURSE WIDENING 11 1/2"
- ⑭ EXISTING HMA SHOULDERS 8"
- ⑮ EXISTING AGGREGATE SHOULDER
- ⑯ PROPOSED HMA SURFACE COURSE, MIX N90, 2 1/4"
- ⑰ PROPOSED AGGREGATE PRIME COAT
- ⑱ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- ⑲ PROPOSED HMA SHOULDERS
- ⑳ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ㉑ PROPOSED SHOULDER RUMBLE STRIP

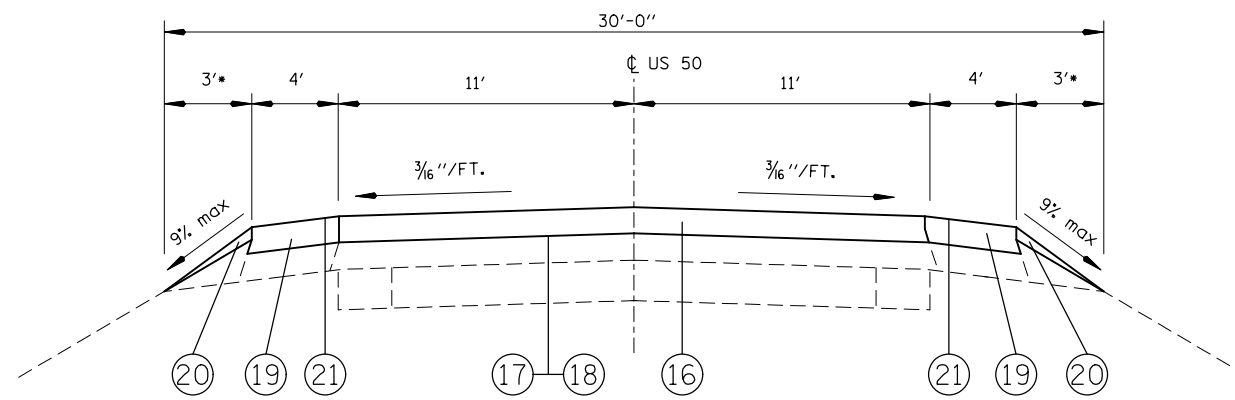


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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL SECTION			
SCALE: NTS	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.

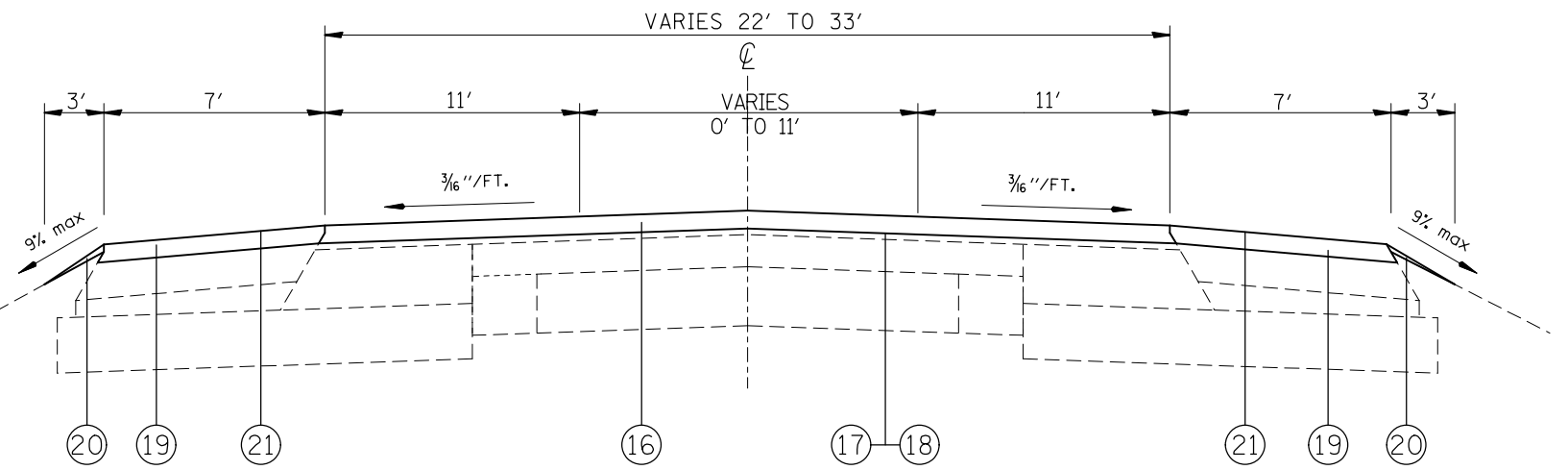
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	9
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76F28	



PROPOSED TYPICAL SECTION

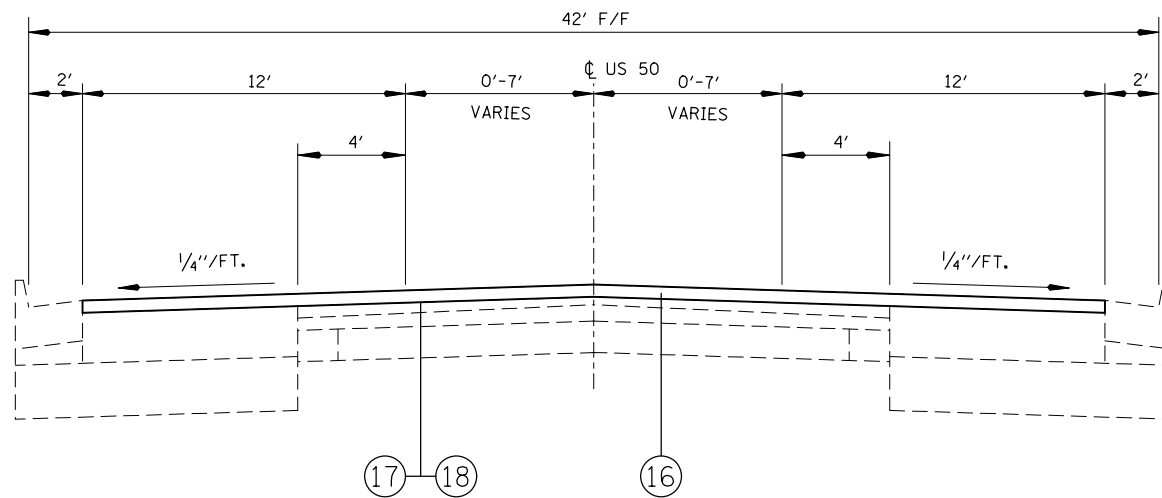
STA. 4+65.00 TO STA. 153+73.00
 STA. 193+16.00 TO STA. 245+37.00
 STA. 269+57.00 TO STA. 282+44.00
 STA. 295+25.00 TO STA. 335+53.00

*5' AGGREGATE SHOULDER IN LOCATIONS AS SHOWN ON SCHEDULE



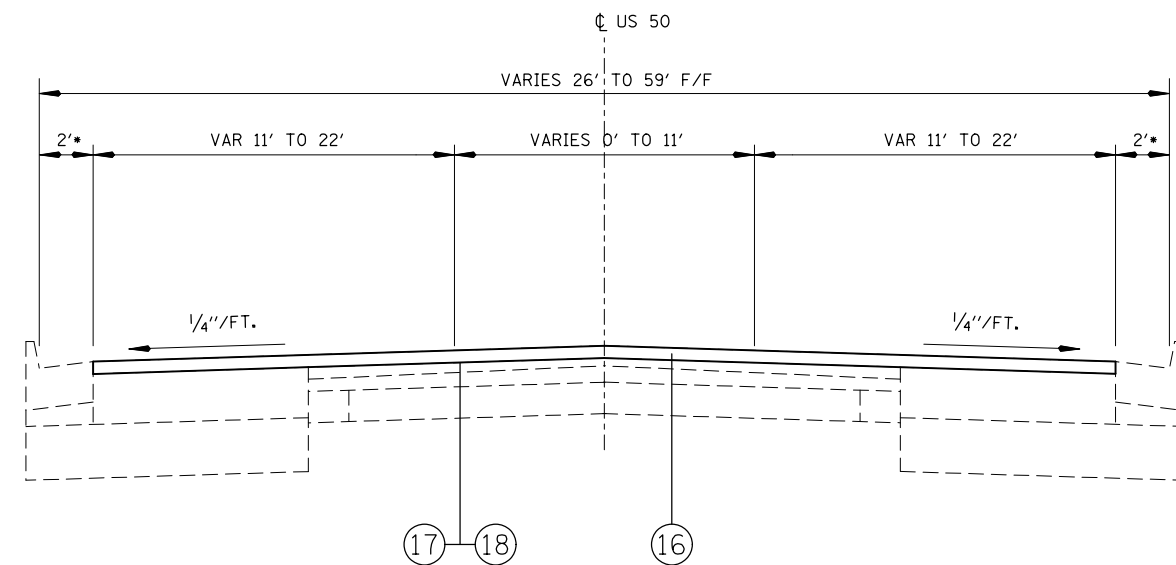
PROPOSED TYPICAL SECTION

STA. 245+37.00 TO STA. 269+57.00



PROPOSED TYPICAL SECTION

STA. 153+73.00 TO STA. 189+25.00



PROPOSED TYPICAL SECTION

STA. 335+53.00 TO STA. 345+40.00

*4' HMA AND 2' AGGREGATE SHOULDER FROM STA. 335+53 TO STA. 345+40

- ① EXISTING P.C.C. PAVEMENT
- ② EXISTING CONCRETE BASE COURSE WIDENING
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C
- ④ EXISTING HMA SURFACE
- ⑤ EXISTING AGGREGATE BASE COURSE, TYPE A 12"
- ⑥ EXISTING LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL TYPE C
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I, TYPE 2, 1 1/2"
- ⑨ EXISTING BITUMINOUS BASE COURSE 1 1/4"
- ⑩ EXISTING HMA SURFACE COURSE 1 1/2"
- ⑪ EXISTING HMA LEVEL BINDER (MM), TYPE 2, 3/4"
- ⑫ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑬ EXISTING HMA BASE COURSE WIDENING 11 1/2"
- ⑭ EXISTING HMA SHOULDERS 8"
- ⑮ EXISTING AGGREGATE SHOULDER

- ⑯ PROPOSED HMA SURFACE COURSE, MIX N90, 2 1/4"
- ⑰ PROPOSED AGGREGATE PRIME COAT
- ⑱ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- ⑲ PROPOSED HMA SHOULDERS
- ⑳ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ㉑ PROPOSED SHOULDER RUMBLE STRIP

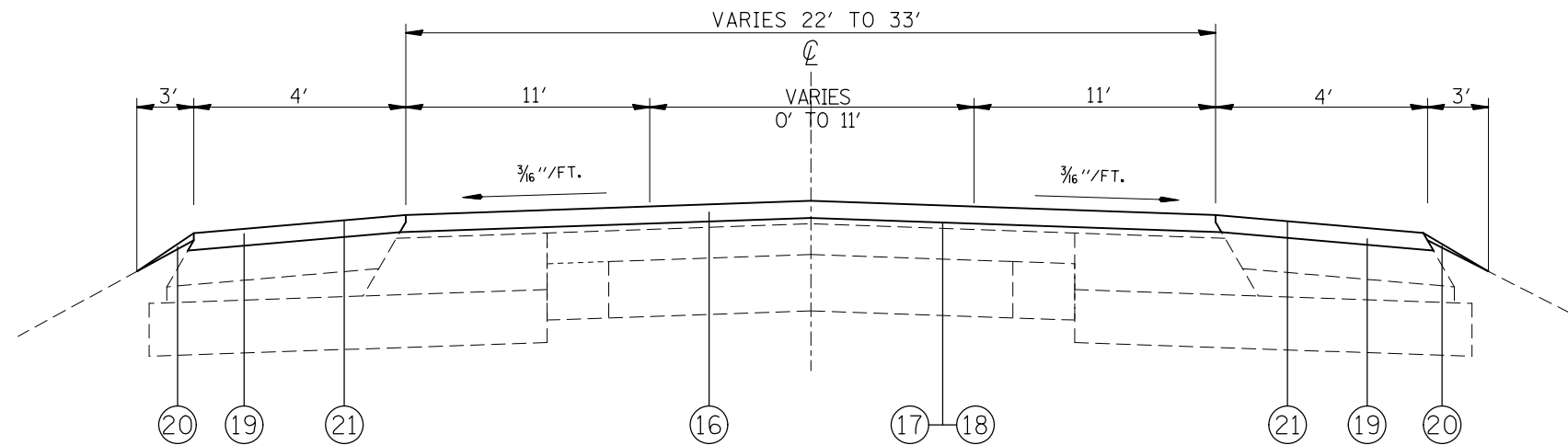
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	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 3/20/2014	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTION

SCALE: NTS SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	10
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

STA. 282+44.00 TO STA. 295+25.00

- ① EXISTING P.C.C. PAVEMENT
- ② EXISTING CONCRETE BASE COURSE WIDENING
- ③ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C
- ④ EXISTING HMA SURFACE
- ⑤ EXISTING AGGREGATE BASE COURSE, TYPE A 12"
- ⑥ EXISTING LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL TYPE C
- ⑦ EXISTING LIME MODIFIED SOIL 12"
- ⑧ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I, TYPE 2, 1 1/2"
- ⑨ EXISTING BITUMINOUS BASE COURSE 1 1/4"
- ⑩ EXISTING HMA SURFACE COURSE 1 1/2"
- ⑪ EXISTING HMA LEVEL BINDER (MM), TYPE 2, 3/4"
- ⑫ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑬ EXISTING HMA BASE COURSE WIDENING 11 1/2"
- ⑭ EXISTING HMA SHOULDERS 8"
- ⑮ EXISTING AGGREGATE SHOULDER
- ⑯ PROPOSED HMA SURFACE COURSE, MIX N90, 2 1/4"
- ⑰ PROPOSED AGGREGATE PRIME COAT
- ⑱ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- ⑲ PROPOSED HMA SHOULDERS
- ⑳ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ㉑ PROPOSED SHOULDER RUMBLE STRIP

FILE NAME =	USER NAME = milleraj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\milleraj\0282308\0876f28-shr-plan.dgn	DRAWN -	REVISED -	REVISED -		327	(16,17,18)RS-3	MARION	83	11	CONTRACT NO. 76F28		
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -		SCALE: NTS	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = 3/20/2014	DATE -	REVISED -	REVISED -									

STATION	TO	STATION	LENGTH	EB/WB NB/SB	THERMOPLASTIC PAVEMENT MARKING										RAISED REFLECTIVE PAVEMENT MARKERS				SHORT TERM PAVEMENT MARKING	WORK-ZONE PAVEMENT MARKING REMOVAL	
					LINE 4"										LETTERS & SYMBOLS	AMBER					REMOVAL
					WHITE		YELLOW		LINE 6" LANE LINE	LINE 12" LANE LINE	LINE 24" STOP BAR	SQ FT	1-WAY	2-WAY		1-WAY					
					SKIP DASH FOOT	AUX-LANE FOOT	LANE LINE FOOT	LANE LINE FOOT					SKIP DASH FOOT	FOOT		FOOT	FOOT	FOOT			
RURAL																					
4+65	TO	153+72	1497	EB/WB																	
249+92	TO	290+08	4016																		
(NO PASSING)																					
146+15	TO	150+90	475	EB																	
147+00	TO	150+90	390	WB																	
188+81	TO	191+19	238	EB																	
191+19	TO	200+00	881																		
188+81	TO	200+00	1119	WB																	
213+84	TO	234+12	2028	EB																	
224+03	TO	245+62	2159	WB																	
244+15	TO	245+62	147	EB																	
269+32	TO	282+94	1362	EB																	
269+32	TO	282+94	1362	WB																	
332+75	TO	335+53	278	EB																	
334+81	TO	335+53	72	WB																	
285+69	TO	287+34	165	EB																	
290+35	TO	291+99	164	WB																	
245+37	TO	269+57	2420																		
189+25	TO	338+00	14875	EB/WB																	
287+34	TO	288+49	115	EB																	
289+20	TO	290+35	115	WB																	
(DOUBLE YELLOW)																					
150+90	TO	153+72	282	EB/WB																	
245+62	TO	248+09	247	EB/WB																	
266+82	TO	269+32	250	EB/WB																	
282+94	TO	297+34	1440	EB/WB																	
287+34	TO	288+49	115	EB/WB																	
289+20	TO	290+35	115	EB/WB																	
290+35	TO	295+00	465	EB/WB																	
335+53	TO	338+00	247	EB/WB																	
335+53	TO	340+99	546																		
341+56	TO	342+33	77																		
4+65	TO	147+00	14235																		
200+00	TO	224+03	2403																		
234+12	TO	244+15	1003																		
248+09	TO	266+82	1873	EB/WB																	
295+00	TO	334+81	3981																		
URBAN																					
153+72	TO	189+25	3553																		
338+00	TO	345+40	740																		
339+90	TO	340+99	109	EB																	
341+78	TO	344+20	242	WB																	
342+33	TO	345+40	307	EB																	
341+78	TO	345+40	362	WB																	
341+56	TO	342+33	77																		
185+08	TO	188+81	373																		
(DOUBLE YELLOW)																					
185+08	TO	187+81	273																		
338+00	TO	340+99	299																		
341+93	TO	345+40	347																		
338+89	TO	339+90	101																		
344+20	TO	345+40	120																		
153+72	TO	185+08	3136																		
168+68																					
172+85																					
176+98																					
181+72																					
340+99																					
341+78																					
341+93																					
SELMVILLE RD.																					
0+00	TO	1+97	197	NB/SB																	
0+90	TO	1+97	107	NB/SB																	
0+52	TO	1+97	145	NB/SB																	
0+24	TO	0+91	67	NB																	
0+52																					
SUB TOTAL:					167	138	69232	35798	8149.25					145	532	24		697	15934	43481	
TOTAL:							113484			257	1596	98	1077		701						

NOTE: AN QUANTITY OF 471' OW WORK-ZONE PAVEMENT MARKING REMOVAL CAN BE FOUND IN TRAFFIC CONTROL SCHEDULE.

FILE NAME =	USER NAME = millerra	DESIGNED -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	12
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE													
STA.	TO	STA.	LENGTH	BITUMINOUS MATERIAL (PRIME COAT)	AGGREGATE PRIME COAT	HMA SURFACE COURSE, MIX D. N90	HMA SURFACE REMOVAL 2"	HMA SURFACE REMOVAL 2 1/4"	HMA SHOULDERS	HMA SHOULDERS 8"	AGGREGATE WEDGE SHOULDER, TYPE B	SHOULDER RUMBLE STRIP 8"	AGGREGATE SHOULDER, TYPE B, 5'
			FOOT	TON	TON	TON	SQYD	SQYD	TON	SQYD	TON	FOOT	TON
RURAL													
4+65	TO	153+73	14908	16	75	4592	49693		1670		278	29816	
189+25	TO	193+16	OMISSION										
193+16	TO	245+15	5199	5.0	26.0	1601	17330				97	10398	
245+15	TO	245+40	25	0.1	0.1	12		111				50	
245+40	TO	269+58	2418	4.0	19.0	1117	12627					4836	
269+58	TO	282+44	1286	1.0	6.0	396	4287					2572	
282+44	TO	295+25	1281	2.0	9.0	592	5836					2562	
295+25	TO	338+70	4345	4.8	16.0	1338	14483					8690	
193+16	TO	245+37	5221						585		97		
245+37	TO	269+58	2421						475		45		
269+58	TO	338+70	6912						774		129		
281+40	TO	281+51	11							183			
30+89	TO	35+22	433										13
32+05	TO	37+67	562										17
35+51	TO	37+58	207										6
97+16	TO	103+28	612										19
97+83	TO	104+21	638										20
192+47	TO	197+22	475										15
192+90	TO	197+28	438										14
242+15	TO	247+03	488										15
242+78	TO	247+78	500										16
263+74	TO	268+50	476										15
265+62	TO	269+57	395										12
279+37	TO	282+44	307										10
280+11	TO	283+00	289										9
SELMVILLE RD.													
0+00	TO	1+97	197	1.0	2	139		1100					
URBAN													
153+73	TO	189+25	3552	5	22	1890		14997					
335+53	TO	345+40	987	2	11	884		7019					
TOTAL:				41	186	12561	104256	23227	3503	183	647	58924	181

ENTRANCE AND SIDE ROAD SCHEDULE					
STA.	WIDTH	LENGTH	HMA SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMPS	INCIDENTAL HMA SURFACING
	FOOT	FOOT	SQ YD	SQ YD	TON
RURAL					
4+65.00	22	3.5	9	17	
NORTON RD.	85	3.5	33	66	1
NORTON RD.	85	3.5	33	66	1
FARTHING RD.	85	3.5	33	66	1
189+25	24	3.5	9	19	1
193+16	24	3.5	9	19	1
COURT ST.	95	3.5	37	74	2
W. LINE ST.	85	3.5	33	66	1
W. LINE ST.	85	3.5	33	66	1
HOOTS CHAPEL RD.	104	3.5	40	81	2
HOOTS CHAPEL RD.	104	3.5	40	81	2
SELMVILLE RD.	87	3.5		68	1
SELMVILLE RD.	39	3.5		30	1
345+40.00	64	3.5		50	
TOTAL:			310	768	16

GUARDRAIL SCHEDULE																
STA.	TO	STA.	SIDE	LENGTH	SPBR ATTACHED TO STRUCTURES	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 2	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKERS DIRECT APPLIED	GUARDRAIL REMOVAL	CONCRETE CURB, TYPE B	STEEL RAILING, TYPE 2399	HMA SHOULDER, 8"
				(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)	(FOOT)	(FOOT)	(SQYD)
31+28.5	TO	34+53.5	R	325.0		275.00			1		5	1	325			
32+03.5	TO	34+53.5	L	250.0		200.00			1		4	1	250			
34+53.5	TO	34+78.5	R	25.0	25						1					
34+53.5	TO	34+78.5	L	25.0	25						1					
34+78.5	TO	35+28.5	R	50.0		50.00			1		1					
34+78.5	TO	37+78.5	L	300.0		250.00			1		4	1				
35+51.0	TO	37+51.0	R	200.0		100.00			2		3	2	200			
97+15.5	TO	100+28.0	R	312.5		262.50			1		4	1	313			
97+83.0	TO	100+58.0	L	275.0		225.00			1		4	1	275			
100+28.0	TO	100+78.0	R	50.0	50						1		50			
100+58.0	TO	101+08.0	L	50.0	50						1		50			
100+78.0	TO	103+28.0	R	250.0		200.00			1		4	1	250			
101+08.0	TO	104+20.0	L	312.5		262.50			1		4	1	313			
184+96.75	TO	189+53.0	R	456.3		362.50	1				6	1	456			
185+62.75	TO	189+94.0	L	431.3		337.50	1				6	1	431			
192+47.0	TO	197+28.25	R	481.3		387.50	1				7	1	481			
192+90.0	TO	197+33.75	L	443.8		350.00	1				6	1	444			
242+08.75	TO	245+15.0	R	306.3		212.50			1		4	1	306	15.6		
242+71.25	TO	245+15.0	L	243.8		150.00			1		4	1	244	15.6		
245+00.0	TO	245+52.0	L/R	52.0												115.6
245+15.0	TO	245+40.0	R	25.0							1		25		25	
245+40.0	TO	245+40.0	L	25.0							1		25		25	
245+40.0	TO	247+33.75	R	193.8		100.00			1	1	3	1	194	15.6		
245+40.0	TO	247+83.75	L	243.8		150.00			1	1	4	1	244	15.6		
263+67.25	TO	266+11.0	R	243.8		150.00			1	1	4	1	244	15.6		
265+55.75	TO	266+49.5	L	93.8					1	1	2	1	94	15.6		
266+11.0	TO	266+48.5	R	37.5							1		38		37.5	
266+12.0	TO	266+86.0	L/R	74.0												115.1
266+49.5	TO	266+87.0	L	37.5							1		38		37.5	
266+48.5	TO	268+42.25	R	193.8		100.00			1	1	3	1	194	15.6		
266+87.0	TO	269+30.75	L	243.8		150.00			1	1	4	1	244	15.6		
279+63.75	TO	281+38.75	R	175.0		125.00					3	1				
280+51.25	TO	281+38.75	L	87.5		37.50					2	1				
281+38.75	TO	281+51.25	R	12.5	12.5						1					
281+38.75	TO	281+51.25	L	12.5	12.5						1					
281+51.25	TO	282+63.75	R	112.5		62.50					2	1				
281+51.25	TO	283+63.75	L	212.5		162.50					3	1				
TOTAL:				175	4663		4	8	25	1	106	25	5725	125.0	125	231

STONE RIPRAP, CLASS A3, SCHEDULE			
STATION	EB/WB	STONE RIPRAP, CLASS A3	REMOVE EXISTING RIPRAP
		SQYD	SQYD
89+75	EB	22	
89+75	WB	22	
100+68	EB		33
100+68	WB		33
281+45	EB	40	
281+45	WB	40	
TOTAL:		124	66

CLASS A PATCHING SCHEDULE #1									
STATION	LANE		CLASS A PATCHING 13"			CLASS A PATCHING 15"	SAW CUTTING	TIE BARS TYPE 6	PATCHING REINFORCEMENT
	LTH.	WTH.	TY-II	TY-III	TY-IV	TY-IV	FT	EACH	SQ YDS
			SQ YDS	SQ YDS	SQ YDS	SQ YDS			
WB 6+93	12	12					72		16
EB 6+95	6	11	7.3				56		7
WB 11+66	10	11	12.2				64		12
EB 13+27	8	11	9.8				60		10
WB 23+14	7	11	8.6				58		9
EB 23+14	7	11	8.6				58		9
EB 28+26	5	11	6.1				54		6
EB 33+82	10	11	12.2				64		12
WB 33+82	10	11	12.2				64		12
WB 35+22	5	11	6.1				54		6
EB 35+22	5	11	6.1				54		6
WB 41+91	10	11	12.2				64		12
EB 41+91	10	11	12.2				64		12
EB 49+01	9	11	11.0				62		11
EB 49+59	7	11	8.6				58		9
EB 54+34	5	11	6.1				54		6
EB 57+87	12	11	14.7				68		15
EB 61+82	10	11	12.2				64		12
WB 61+84	5	11	6.1				54		6
EB 65+87	12	11	14.7				68		15
WB 65+87	12	11	14.7				68		15
WB 66+27	5	11	6.1				54		6
EB 66+27	5	11	6.1				54		6
EB 71+94	6	11	7.3				56		7
WB 75+71	5	11	6.1				54		6
EB 76+85	12	12		16			72		16
EB 83+19	12	11	14.7				68		15
EB 87+19	10	11	12.2				64		12
EB 89+89	5	12	6.7				58		7
EB 91+17	12	11	14.7				68		15
WB 91+17	12	11	14.7				68		15
EB 94+30	10	11	12.2				64		12
WB 95+50	13	11		16			70		16
WB 99+24	5	11	6.1				54		6
EB 99+24	5	11	6.1				54		6
EB 99+80	8	11	9.8				60		10
WB 99+80	8	11	9.8				60		10
EB 102+27	5	11	6.1				54		6
WB 102+27	5	11	6.1				54		6
WB 107+10	14	11		17			72		17
EB 107+61	10	11	12.2				64		12
WB 107+65	5	11	6.1				54		6
EB 110+26	7	11	8.6				58		9
EB 112+46	15	11		18			74		18
EB 116+28	12	11	14.7				68		15
WB 116+28	12	11	14.7				68		15
EB 160+03	28	12				37	104	14	37
WB 160+03	28	12				37	104	14	37
EB 160+52	15	12				20	78		20
SUB TOTAL			403	103	75	0	3112	28	581

CLASS A PATCHING SCHEDULE #2									
STATION	LANE		CLASS A PATCHING 13"			CLASS A PATCHING 15"	SAW CUTTING	TIE BARS TYPE 6	PATCHING REINFORCEMENT
	LTH.	WTH.	TY-II	TY-III	TY-IV	TY-IV	FT	EACH	SQ YDS
			SQ YDS	SQ YDS	SQ YDS	SQ YDS			
EB 160+57	25	12					98	13	33
EB 160+92	10	12	13.3				68		13
EB 162+12	40	12					128	20	53
WB 162+40	22	12					92	11	29
EB 163+79	5	12	6.7				58		7
EB 165+89	5	12	6.7				58		7
EB 166+79	5	12	6.7				58		7
EB 168+00	5	12	6.7				58		7
EB 169+04	5	12	6.7				58		7
EB 171+58	5	12	6.7				58		7
WB 171+58	5	12	6.7				58		7
EB 171+74	5	12	6.7				58		7
EB 172+19	5	12	6.7				58		7
EB 172+64	5	12	6.7				58		7
EB 173+84	5	12	6.7				58		7
EB 176+24	5	12	6.7				58		7
EB 178+50	5	12	6.7				58		7
EB 179+28	5	12	6.7				58		7
WB 185+47	5	12	6.7				58		7
EB 185+63	5	12	6.7				58		7
WB 185+91	5	12	6.7				58		7
EB 186+31	42	12				56	132	21	56
WB 186+31	42	12				56	132	21	56
CL 186+35	24	12				32	96	12	32
EB 186+35	18	12			24		84		24
WB 186+35	18	12			24		84		24
EB 186+40	25	10				28	90	13	28
EB 186+83	17	10			19		74		19
EB 187+22	30	10				33	100	15	33
WB 189+09	24	12				32	96	12	32
EB 189+09	44	12				59	136	22	59
CL 189+12	20	14				31	96		31
WB 189+12	21	12				28	90	11	28
EB 189+98	6	12	8				60		8
CL 189+98	5	12	6.7				58		7
WB 189+98	5	12	6.7				58		7
EB 190+42	5	12	6.7				58		7
WB 190+42	5	12	6.7				58		7
CL 190+42	5	12	6.7				58		7
WB 190+87	5	12	6.7				58		7
WB 191+77	5	12	6.7				58		7
EB 202+66	5	12	6.7				58		7
CL 202+66	5	14	8				66		8
WB 202+66	5	12	6.7				58		7
CL 203+31	5	14	8				66		8
WB 203+31	5	12	6.7				58		7
EB 203+45	34	12				45	116	17	45
CL 203+63	5	12	6.7				58		7
WB 203+63	5	12	6.7				58		7
WB/EB 281+45	11	22					130	11	27
WB/EB 314+88	12	22				28	112		28
SUB TOTAL			230	67	544	51	3828	197	868

CLASS D PATCHING SCHEDULE						
STATION	LANE		HMA FULL DEPTH PATCHING 13"			
	LTH.	WTH.	TY-I	TY-II	TY-III	TY-IV
			SQ YDS	SQ YDS	SQ YDS	SQ YDS
WB 118+86	4	12		5		
EB 118+86	4	12		5		
EB 121+08	12	12			16	
EB 123+78	5	11		6		
EB 158+92	76	6				51
WB 158+99	66	6				44
WB 163+13	6	38				25
EB 166+03	14	6		9		
EB/WB 201+89	22	11				27
EB 205+17	4	11	5			
WB 205+17	4	11	5			
EB 207+30	4	11	5			
WB 207+30	4	11	5			
WB 208+28	7	11		9		
WB 208+42	7	11		9		
EB 212+12	9	11		11		
EB 216+59	7	11		9		
WB 218+17	8	11		10		
WB 222+75	9	11		11		
EB 222+75	12	11		15		
WB 230+75	18	7		14		
WB 232+20	4	11	5			
EB 232+20	4	11	5			
WB 236+43	11	11		13		
EB 239+65	9	11		11		
WB 297+36	4	11	5			
EB 297+36	4	11	5			
WB 297+78	4	11	5			
EB 297+78	4	11	5			
WB 298+09	14	11			17	
EB 298+09	14	11			17	
WB 305+08	6	11		7		
EB 305+10	13	11			16	
WB 308+28	8	11		10		
EB 308+28	8	11		10		
WB 310+75	10	11		12		
EB 320+96	11	11		13		
WB 325+04	11	11		13		
EB 328+25	15	11			18	
EB 332+28	8	11		10		
EB 334+87	4	11	5			
WB 334+97	4	11	5			
EB 336+08	4	11	5			
SUB TOTAL			64	212	84	147
12% SUBTOTAL*			8	24	10	18
TOTAL			71	237	95	165

HMA PARTIAL DEPTH PATCHING					
STA.	TO	STA.	PARTIAL DEPTH PATCHING TON	PARTIAL DEPTH PATCHING 4" REMOVAL	
				TY-I SQYD	TY-II SQYD
161+16	TO	169+81	2.4	25.0	18
169+81	TO	172+90	0.7	12.0	
172+90	TO	180+50	1.5	27.0	
180+50	TO	184+72	0.4	7.0	
184+72	TO	184+96	0.1	2.0	
184+96	TO	185+45	0.1	2.0	
185+45	TO	189+50	1.7	17.0	14
189+50	TO	189+98	2.9	6.0	45
189+98	TO	191+33	0.9	16.0	
191+33	TO	201+70	1.5	12.0	14
201+70	TO	203+60	2.1	27.0	10
SUB TOTAL:				153.0	101.0
12% SUBTOTAL:				18.4	12.1
TOTAL:				14	113

CLASS A PATCHING TOTALS:							
	CLASS A PATCHING 13"			CLASS A PATCHING 15"	SAW CUTTING	TIE BARS TYPE 6	PATCHING REINFORCEMENT
	TY-II	TY-III	TY-IV	TY-IV	FT	EACH	SQ YDS
	SQ YDS	SQ YDS	SQ YDS	SQ YDS			
SCHEDULE #1 TOTAL:	403	103	75	0	3112	28	581
SCHEDULE #2 TOTAL:	230	67	544	51	3828	197	868
SUB TOTAL:	633	170	619	51	6940	225	1449
12% SUBTOTAL:	75.9	19	74	6	824	27	172
TOTAL:	709	189	693	57	7764	252	1621

*NOTE: AN ADDITIONAL 12% HAS BEEN ADDED TO THE FINAL PATCHING QUANTITY TO ALLOW FOR WINTER DAMAGE FOR TWO SEASONS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PATCHING SCHEDULES

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	14
CONTRACT NO. 76F28				

TRAFFIC CONTROL STAGING SCHEDULE

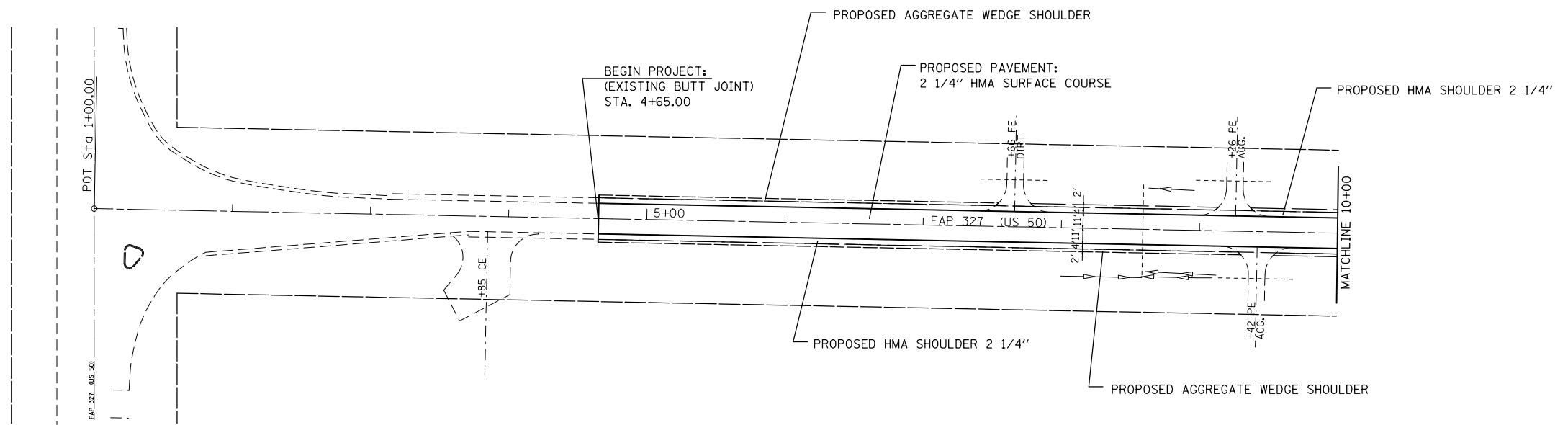
STATIONS	TEMPORARY RUMBLE STRIPS	TEMPORARY TRAFFIC SIGNAL INSTALLATION	WORK-ZONE PAVEMENT MARKING REMOVAL	REMOVE EXISTING PAVEMENT MARKING	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 2	IMPACT ATTENUATORS, RELOCATE
	EACH	EACH	SQFT	SQFT	FOOT	FOOT	EACH	EACH
169+90	1							
174+90	1							
179+90	1							
203+24	1							
208+24	1							
213+24	1							
188+15							1	1
194+33							1	1
280+54.5							1	1
282+85.5							1	1
SN 061-0082		1						
SN 061-2456		1						
188+48 TO 193+94			364	364	546.0	546.0		
280+54.5 TO 282+35.5			107	107	181.0	181.0		
271+60	1							
266+60	1							
261+60	1							
291+36	1							
296+36	1							
301+36	1							
TOTAL:	12	2	471	471	727	727	4	4

JOINT OR CRACK ROUTING/FILLING SCHEDULE

STA.	TO	STA.	LENGTH	JOINT OR CRACK ROUTING PCC PAVEMENT AND SHOULDER	JOINT OR CRACK FILLING
			FOOT		
160+00	TO	203+63	4363	400	6479
TOTAL:				400	6479

SIDEWALK SCHEDULE

STATION	LT/RT	CURB AND GUTTER REMOVAL	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24	PCC SIDEWALK, 4"	SIDEWALK REMOVAL	DETECTABLE WARNINGS
		FT	FT	SQ FT	SQ FT	SQ FT
181+75	RT	7	7	42	42	10
181+75	LT	7	7	63	63	10
177+98	RT	7	7	55	55	10
177+98	LT	7	7	59	59	10
172+87	RT	9	9	50	50	10
172+87	LT	15	15	122	122	20
168+66	RT	13	13	137	84	20
168+66	LT	7	7	53	53	10
TOTALS		72	72	581	528	100



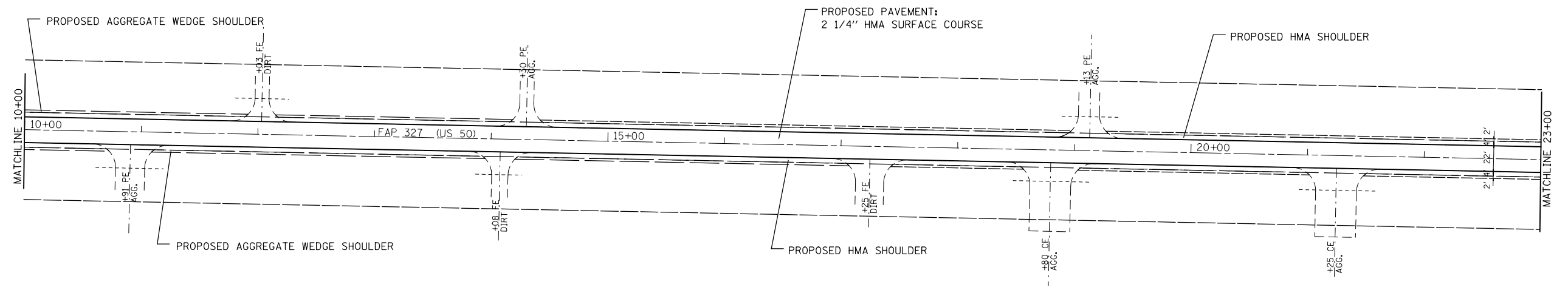
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	16
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



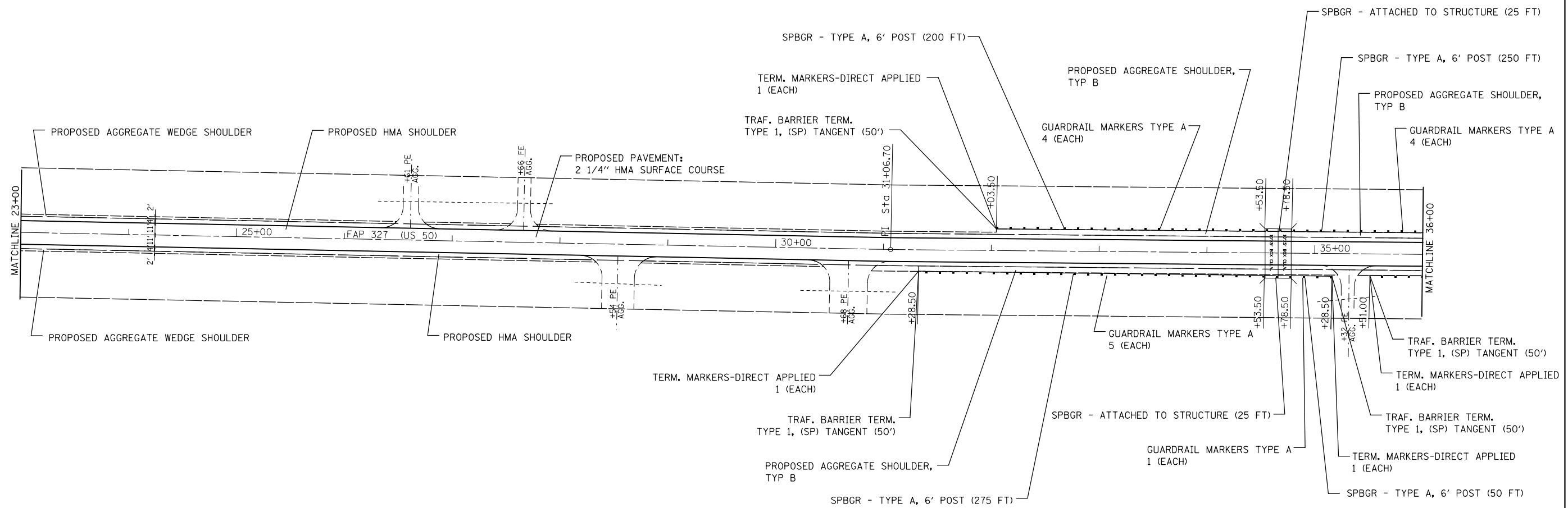
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	17
CONTRACT NO. 76F28				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



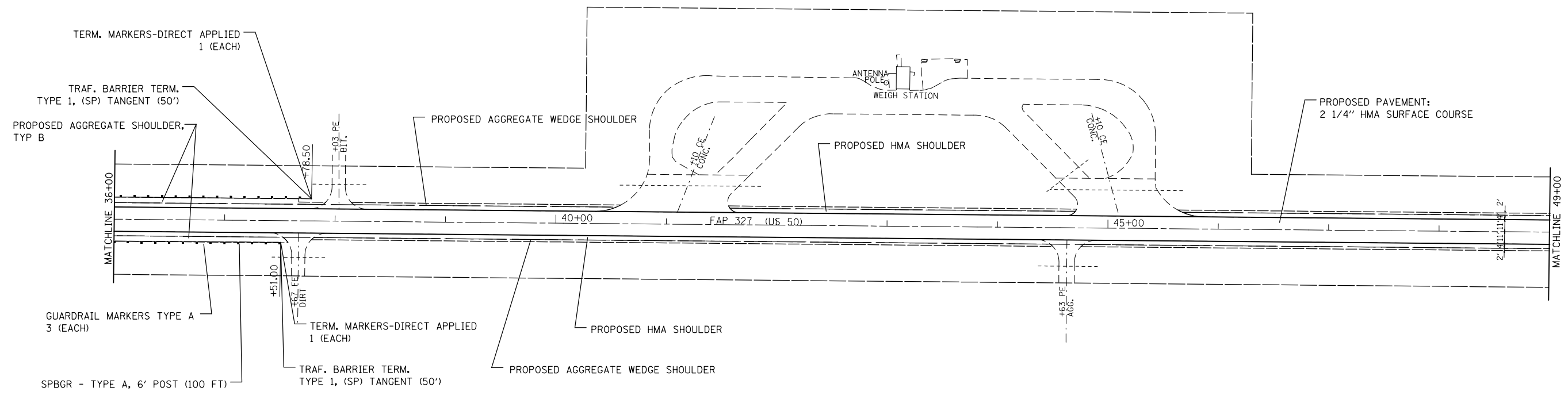
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	18
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

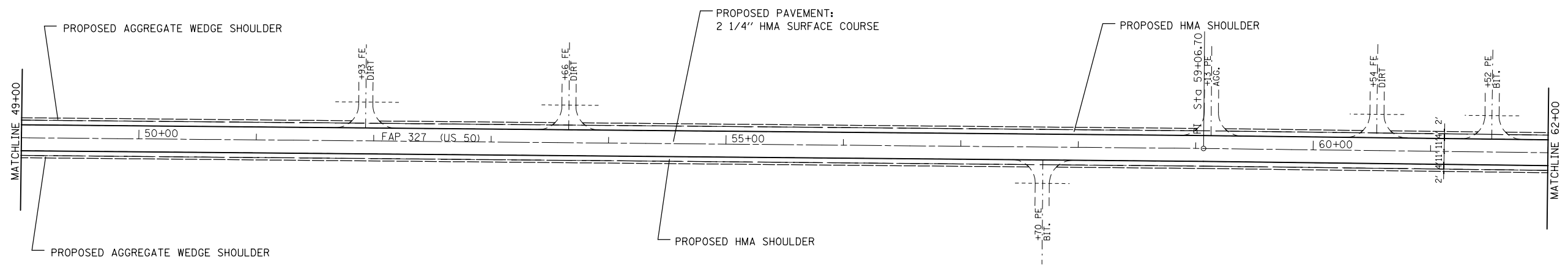


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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	19
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

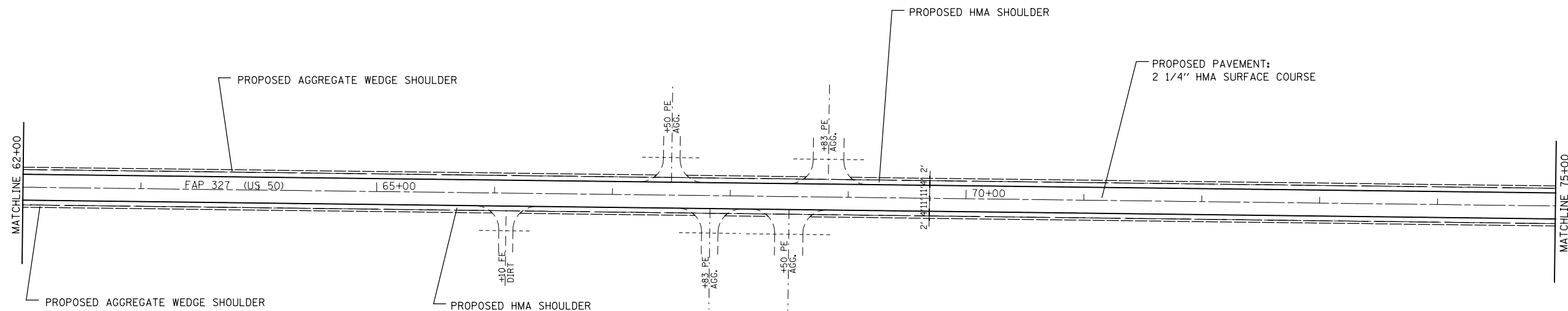


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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	78	20
CONTRACT NO. 76F28				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



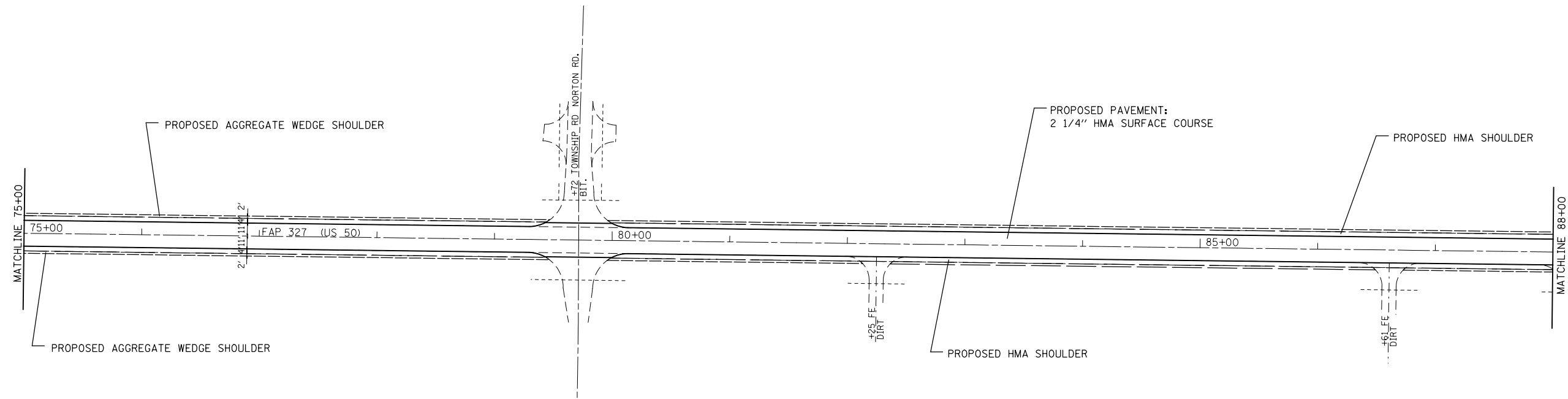
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	78	21
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



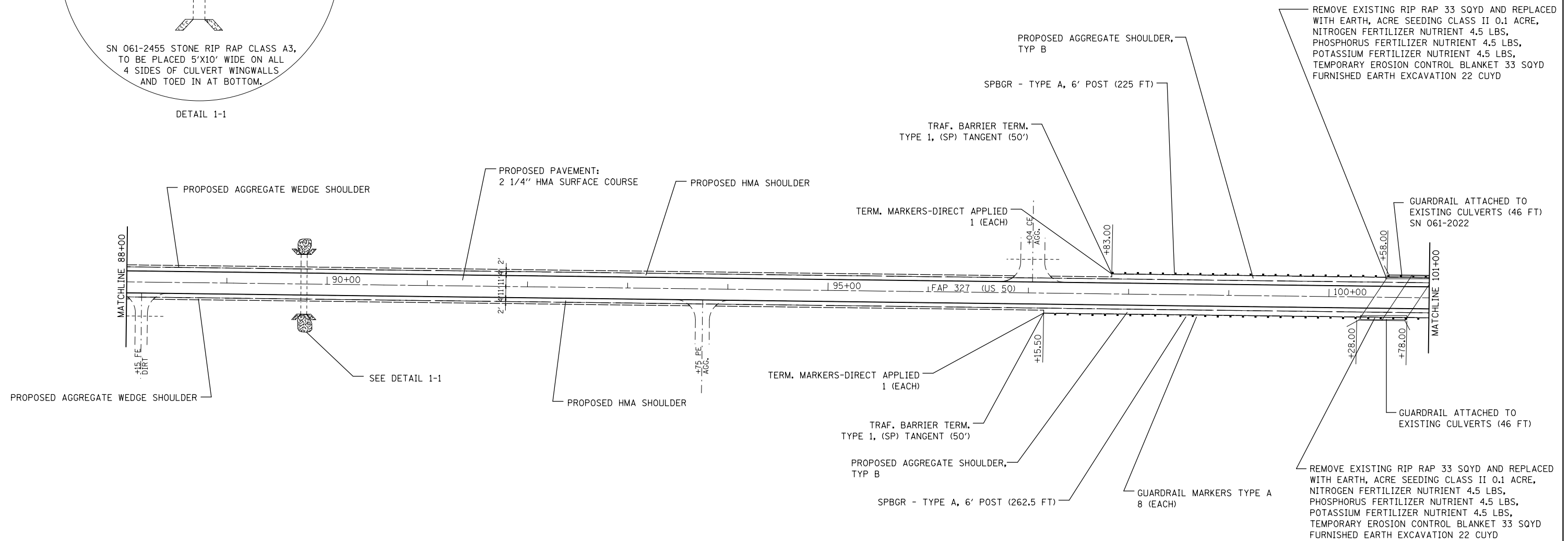
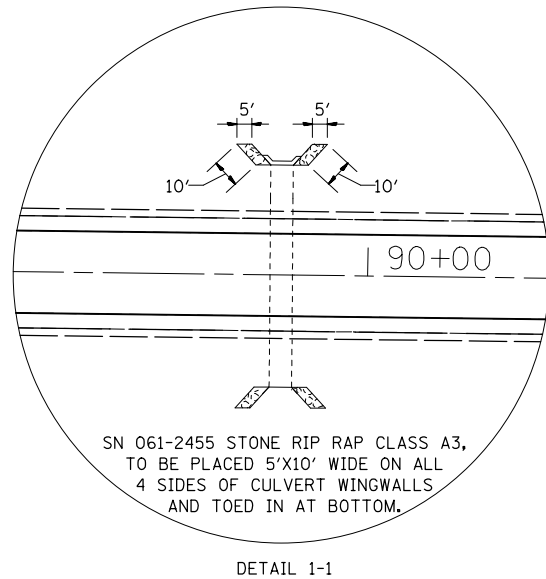
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	78	22
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76F28	



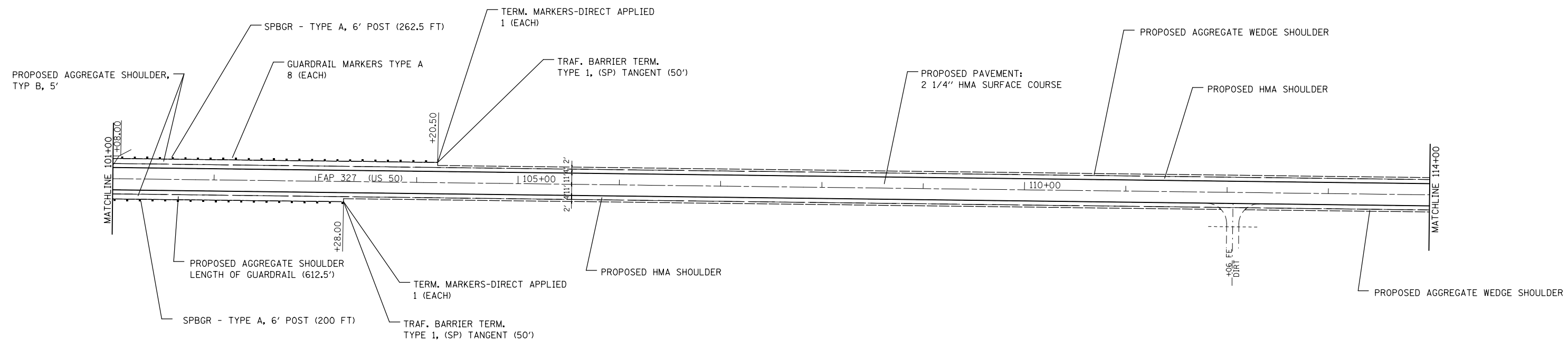
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PLOT DATE = 3/20/2014		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	23
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

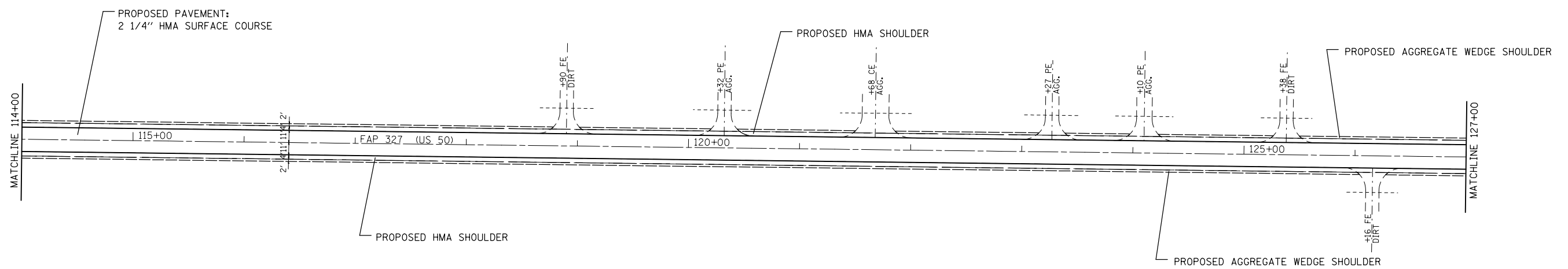


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 76F28				



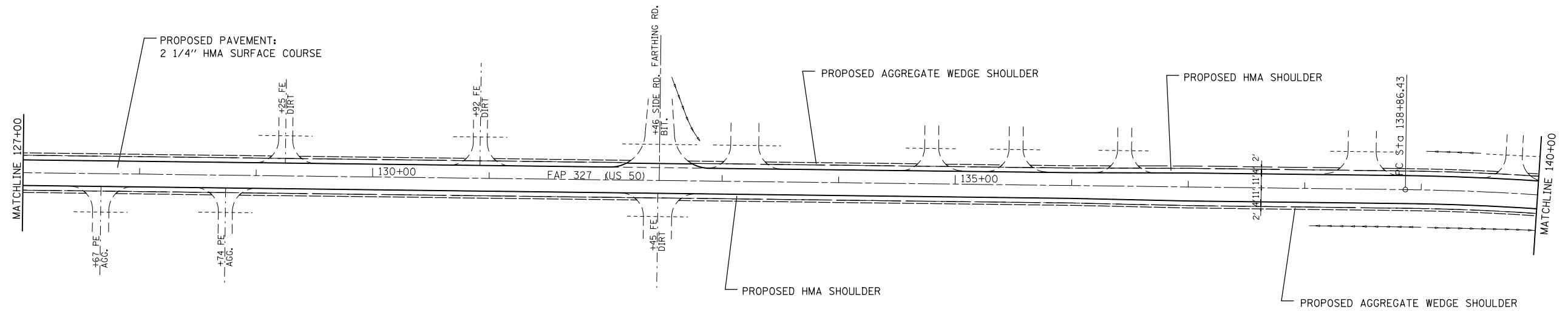
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



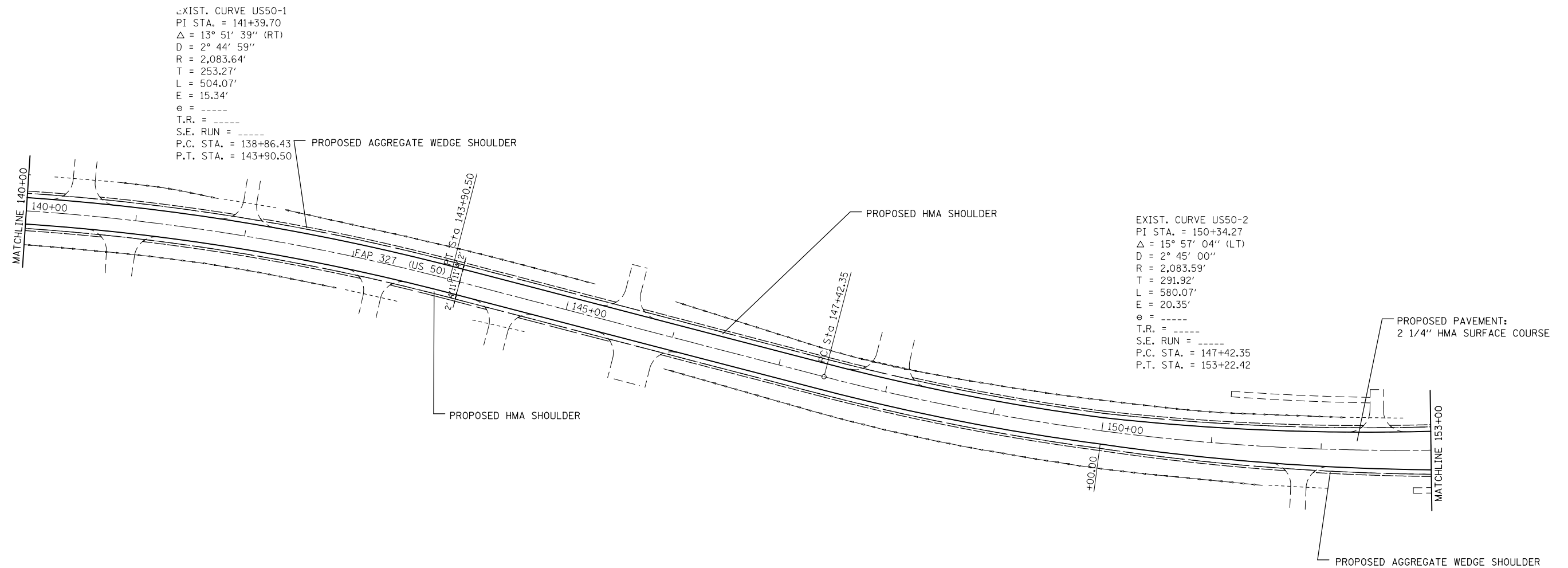
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	26
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



EXIST. CURVE US50-1
 PI STA. = 141+39.70
 Δ = 13° 51' 39" (RT)
 D = 2° 44' 59"
 R = 2,083.64'
 T = 253.27'
 L = 504.07'
 E = 15.34'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 138+86.43
 P.T. STA. = 143+90.50

EXIST. CURVE US50-2
 PI STA. = 150+34.27
 Δ = 15° 57' 04" (LT)
 D = 2° 45' 00"
 R = 2,083.59'
 T = 291.92'
 L = 580.07'
 E = 20.35'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 147+42.35
 P.T. STA. = 153+22.42

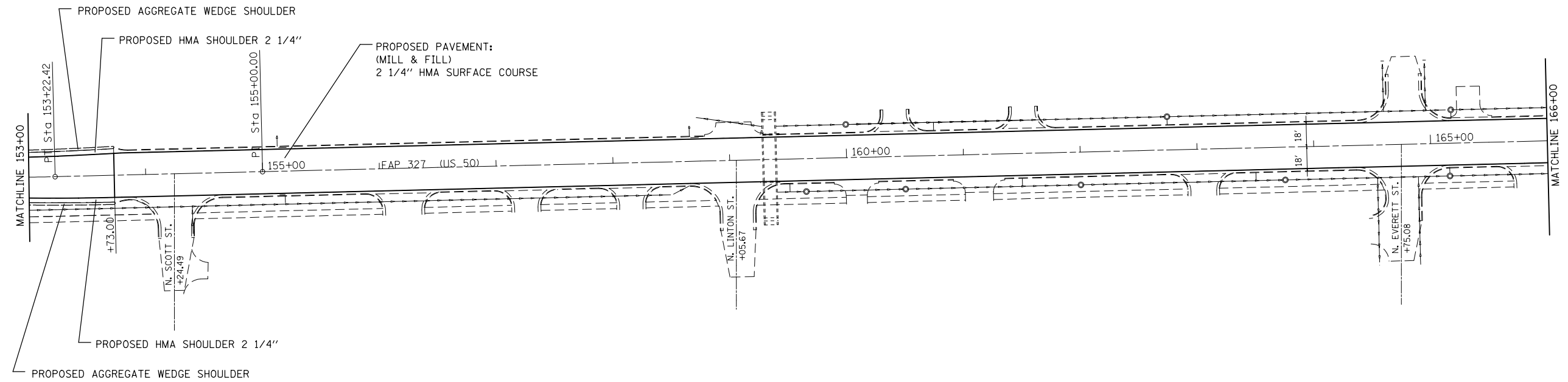
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	27
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76F28	

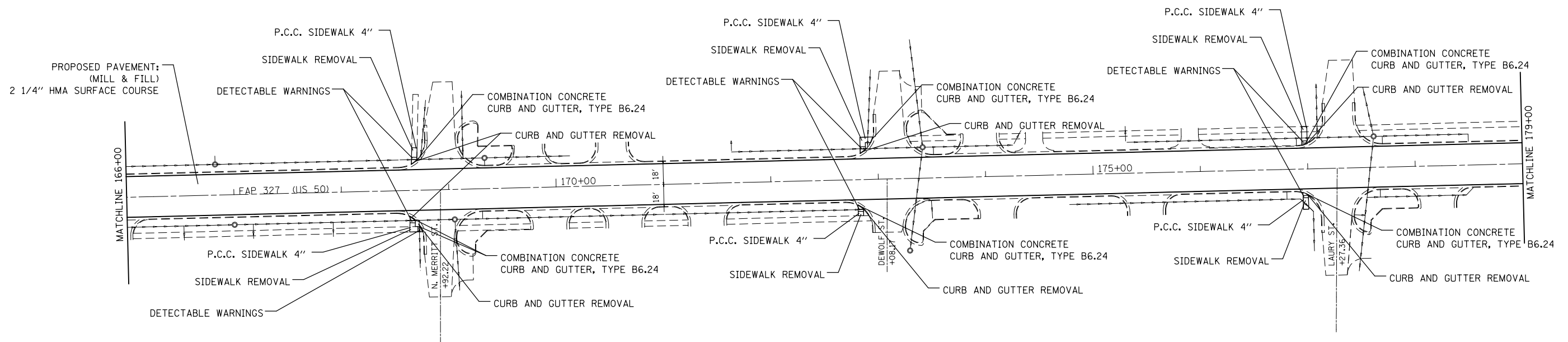


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	28
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



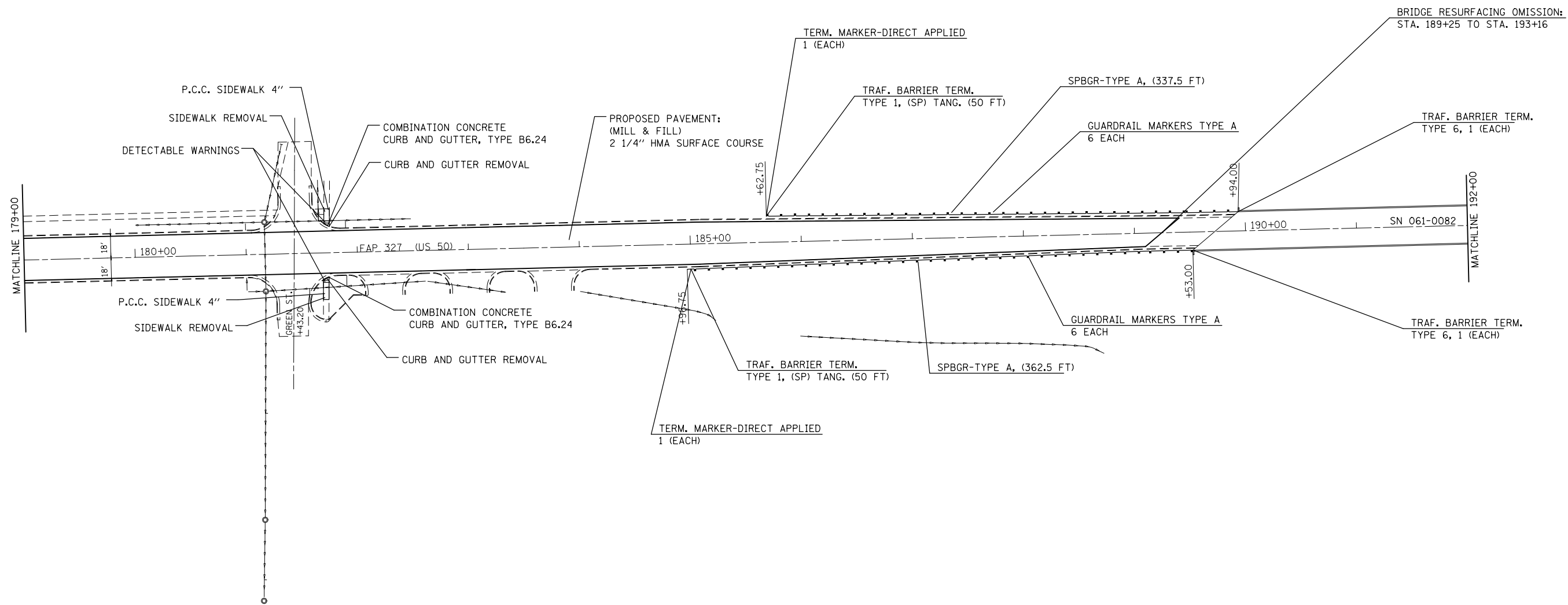
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	29
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



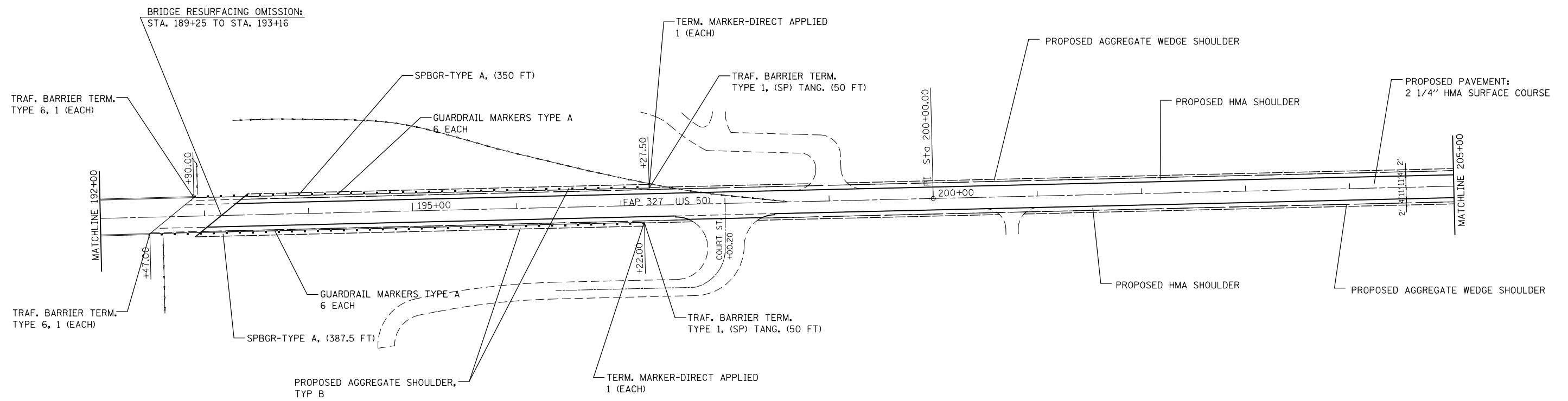
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	30
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	

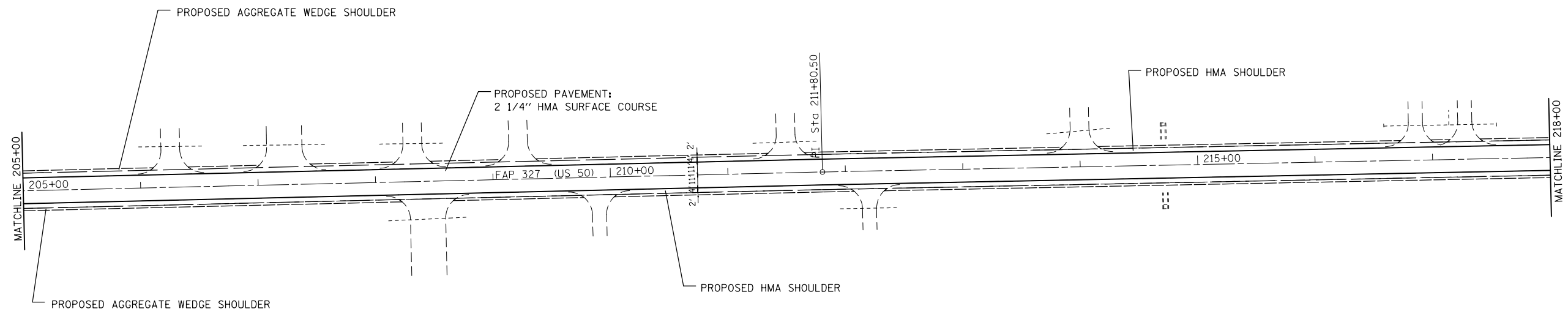


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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	31
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



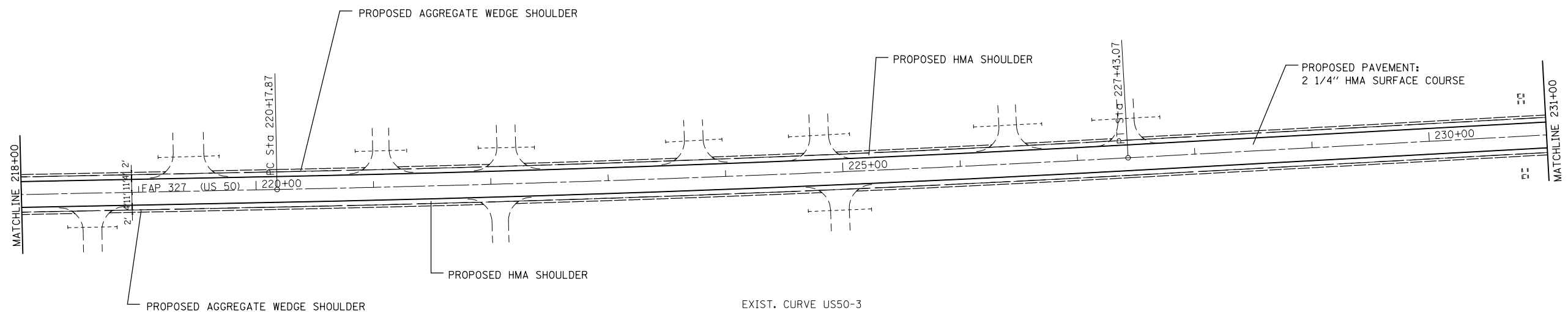
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	883	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



EXIST. CURVE US50-3
 PI STA. = 223+80.51
 Δ = 1° 59' 15" (LT)
 D = 0° 16' 27"
 R = 20,906.02'
 T = 362.64'
 L = 725.20'
 E = 3.14'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 220+17.87
 P.T. STA. = 227+43.07

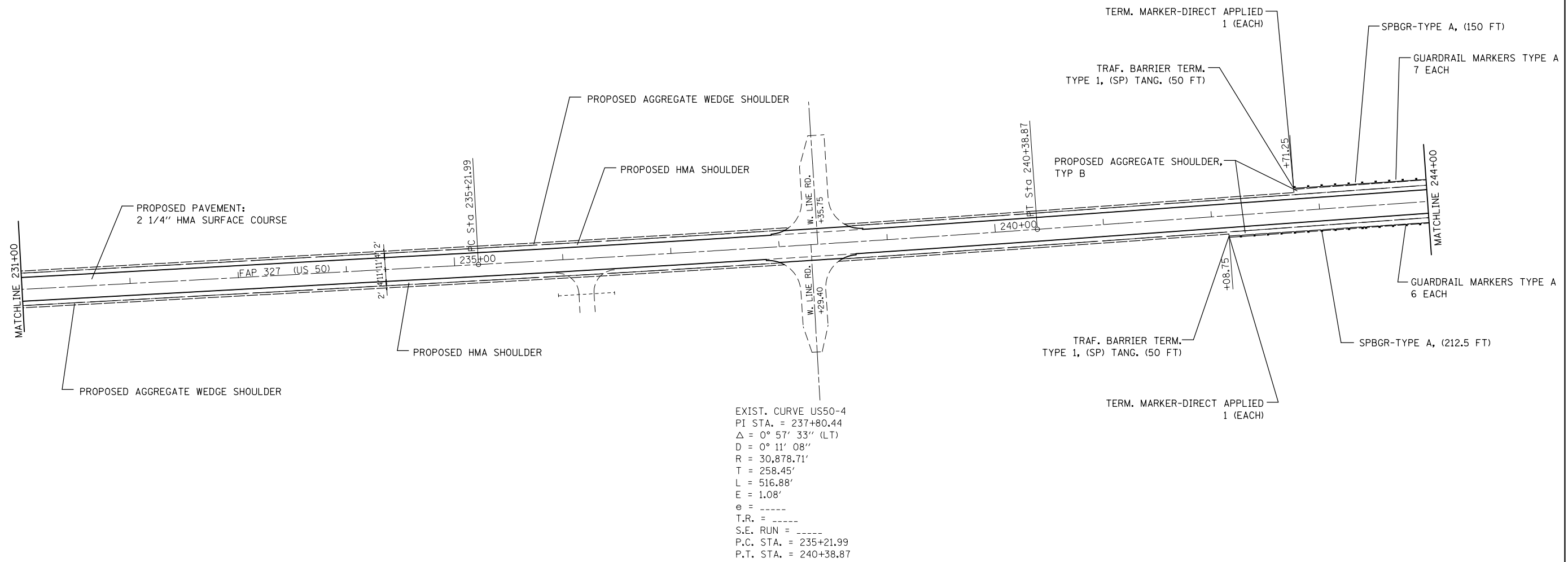
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



EXIST. CURVE US50-4
 PI STA. = 237+80.44
 $\Delta = 0^\circ 57' 33''$ (LT)
 $D = 0^\circ 11' 08''$
 $R = 30,878.71'$
 $T = 258.45'$
 $L = 516.88'$
 $E = 1.08'$
 $\theta = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 P.C. STA. = 235+21.99
 P.T. STA. = 240+38.87

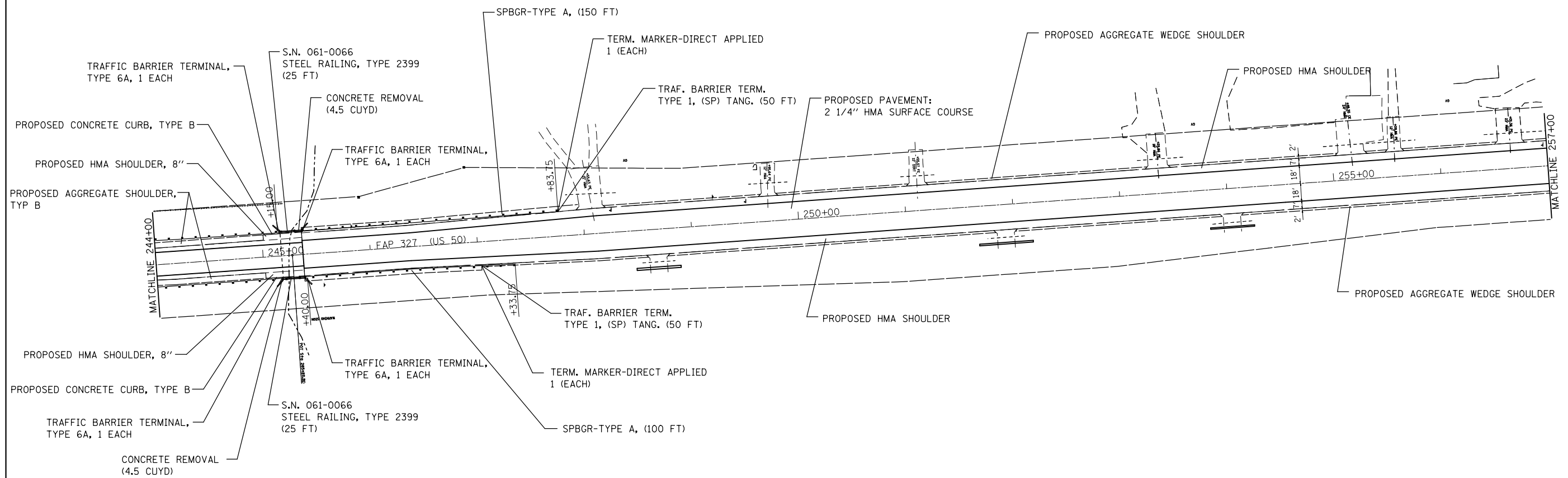
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	34
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



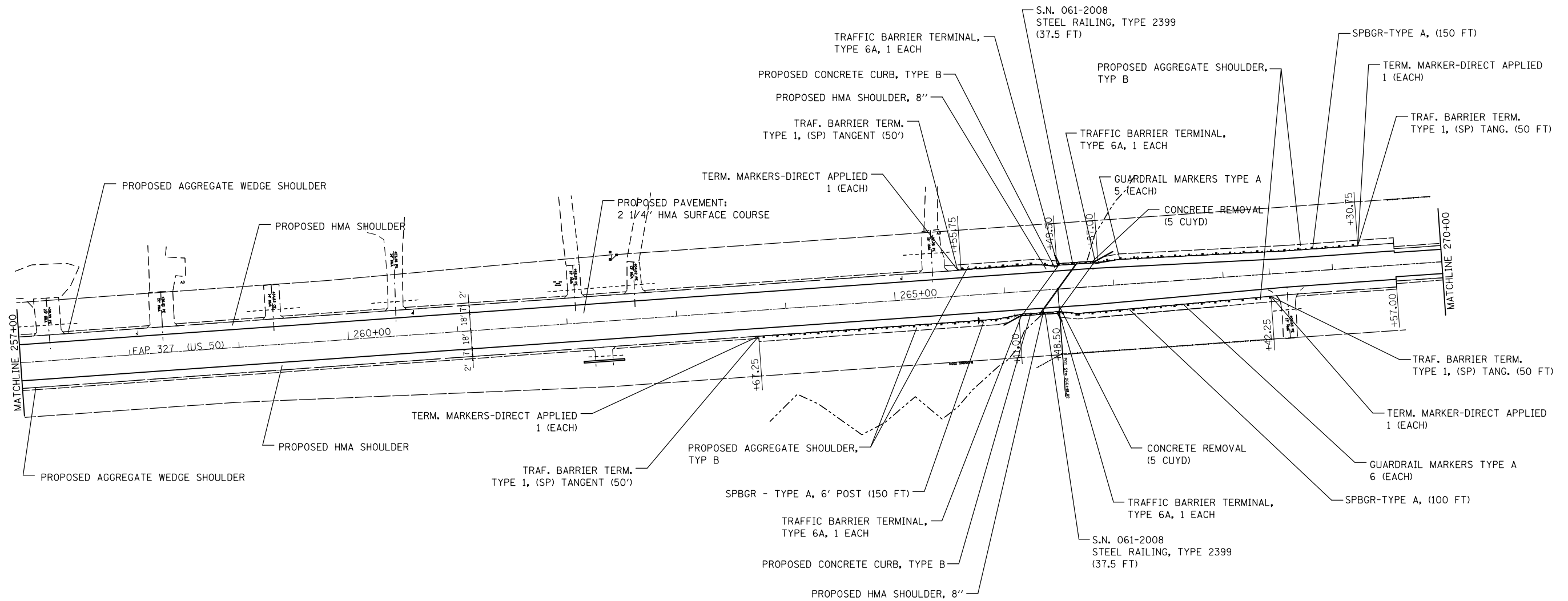
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	35
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



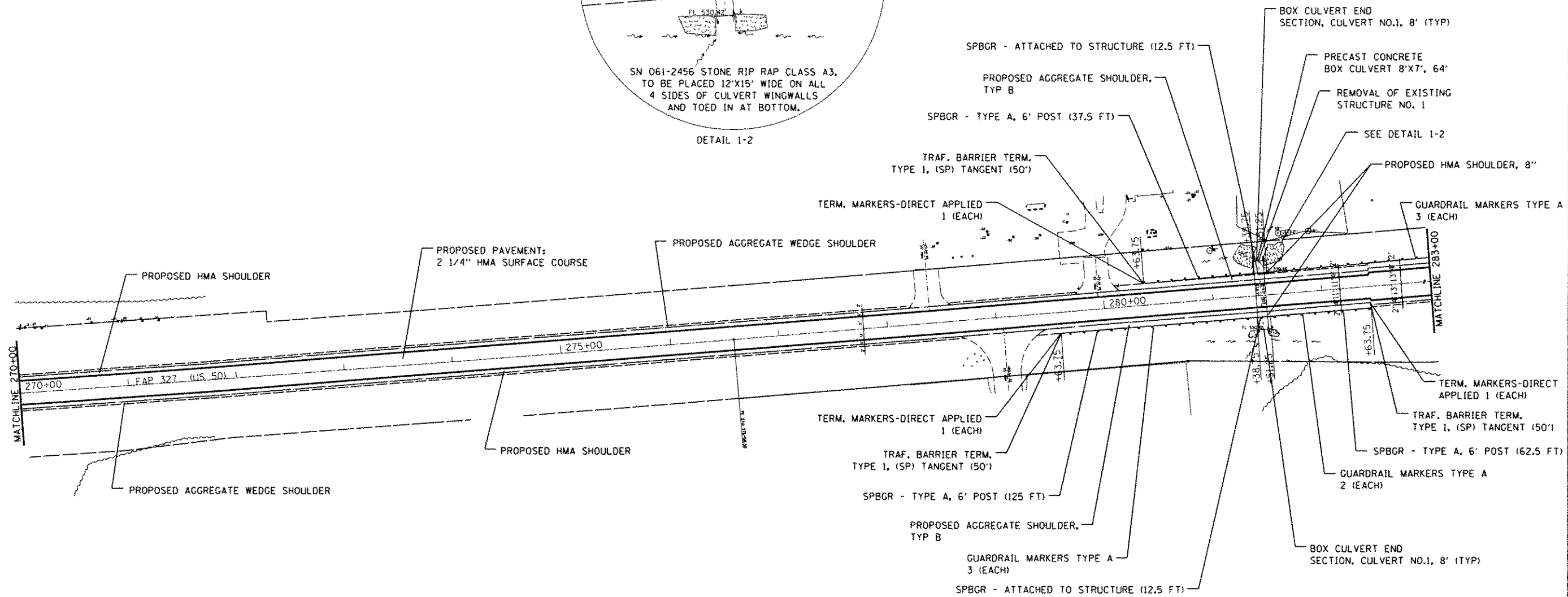
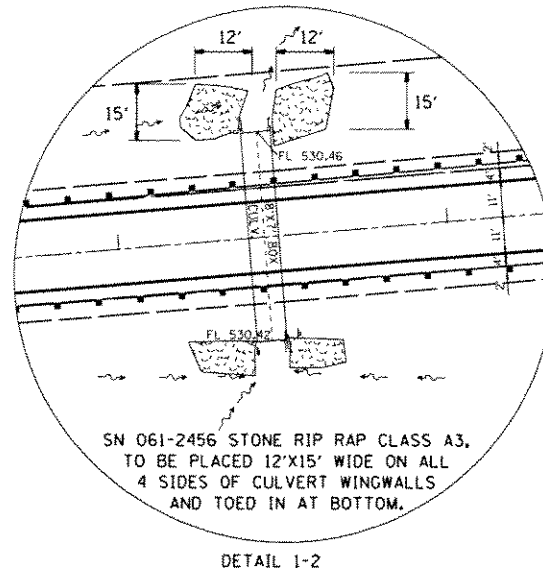
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

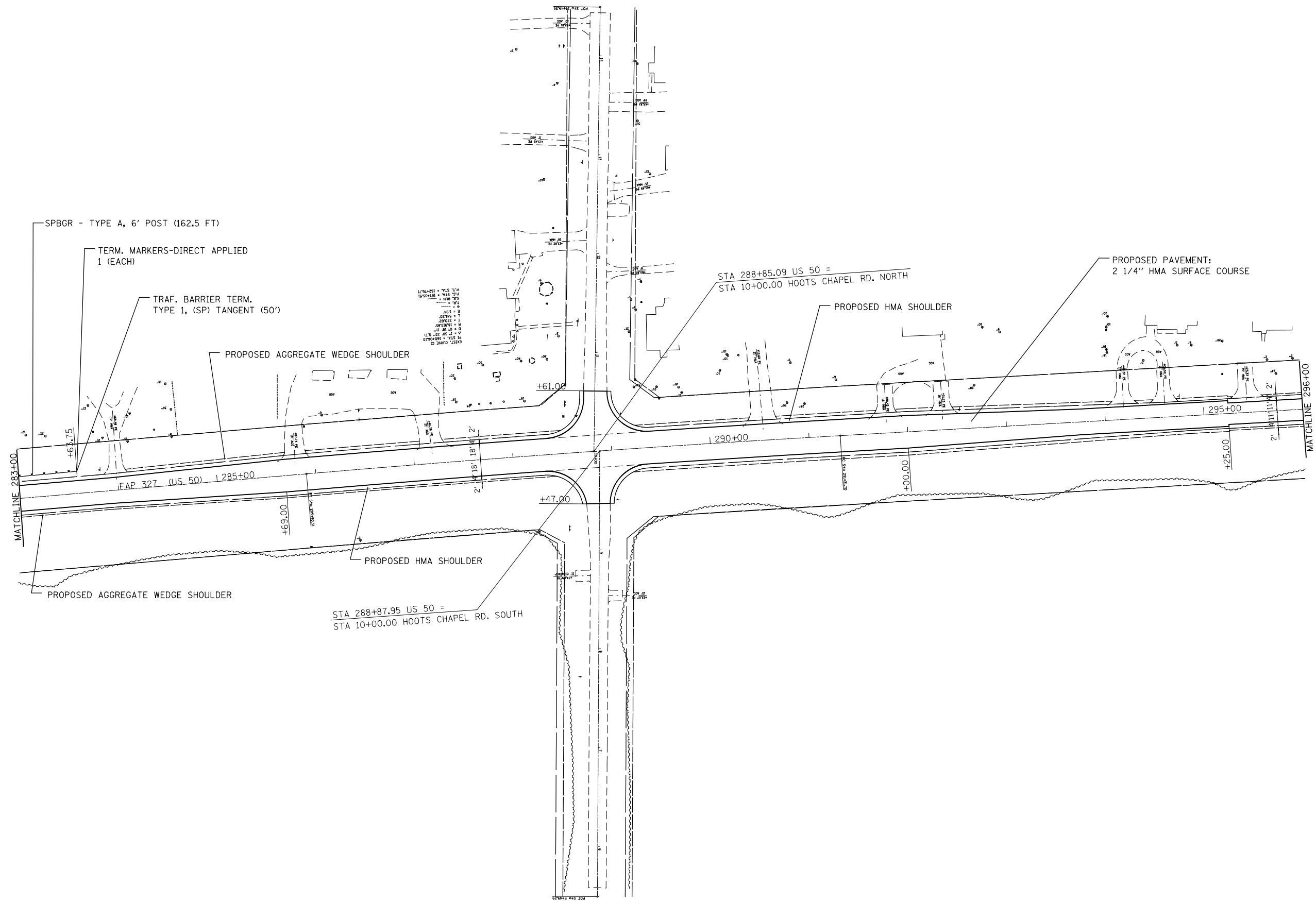
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	36
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)					
STA.	SIZE (SPAN X HEIGHT)	SKEW	DESIGN FILL (FT.)		PGE BACKFILL REQUIRED*
			EDGE OF SHLDR. (MINIMUM)	MAXIMUM	
281+45	8X7	0	7"	1'-3"	92 CU YD

NOTE: FOR S.N. 061-2456, THE CONTRACTOR SHALL COORDINATE THE REQUIRED CONNECTIONS FOR THE GUARDRAIL MOUNTED ON EXISTING CULVERTS WITH THE FABRICATOR OF THE PRECAST BOX CULVERT SECTIONS. THE BOLT HOLES ARE TO BE PRECAST INTO THE TOP SLAB OF THE BOX CULVERT SECTION, AS OPPOSED TO CORED HOLES AS DEPICTED IN HIGHWAY STANDARD 630101-09, CASE IV, AS SHOWN ON THE STANDARD, IS APPLICABLE TO THIS LOCATION. THE CONTRACTOR SHALL LAYOUT THE GUARDRAIL POST SUCH A WAY AS TO MINIMIZE THE NUMBER OF CONNECTIONS MADE TO THE BOX CULVERT, WHILE AVOIDING CONFLICTS WITH ADJACENT ENTRANCES.

* THE PGE QUANTITY SHOWN IS AN APPROXIMATE QUANTITY THAT WILL BE REQUIRED FOR THE END SECTIONS AND BOX CULVERT PAY ITEMS. THIS IS NOT TO BE PAID FOR SEPERATELY BUT IS INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.



P.C. STA. = 287+00
 P.T. STA. = 287+00
 TANGENT = 50'
 CURVE DATA
 RADIUS = 100'
 CHORD BEARING = 90°
 CHORD LENGTH = 100'
 EXIST. CURVE CL. = 100'
 EXIST. CURVE CR. = 100'

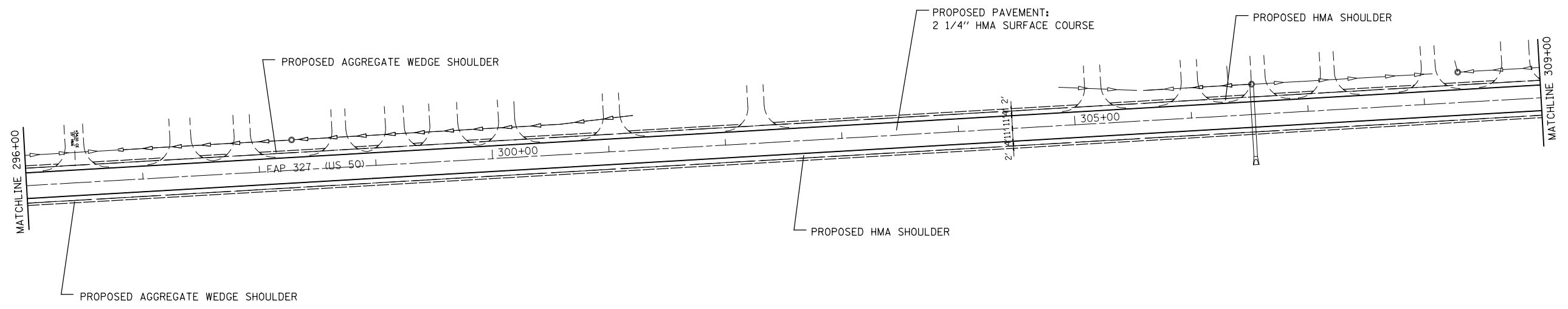
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
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PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	38
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

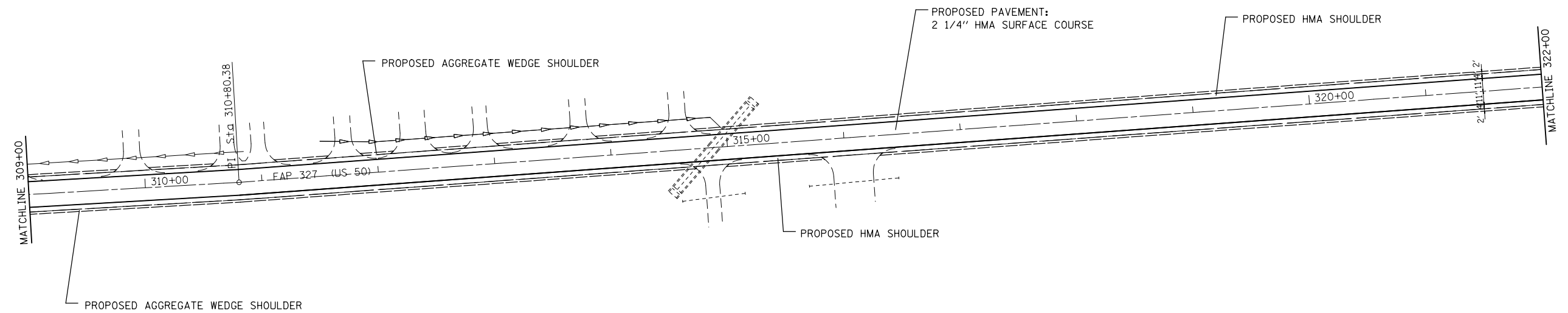


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PLAN VIEW			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	39
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



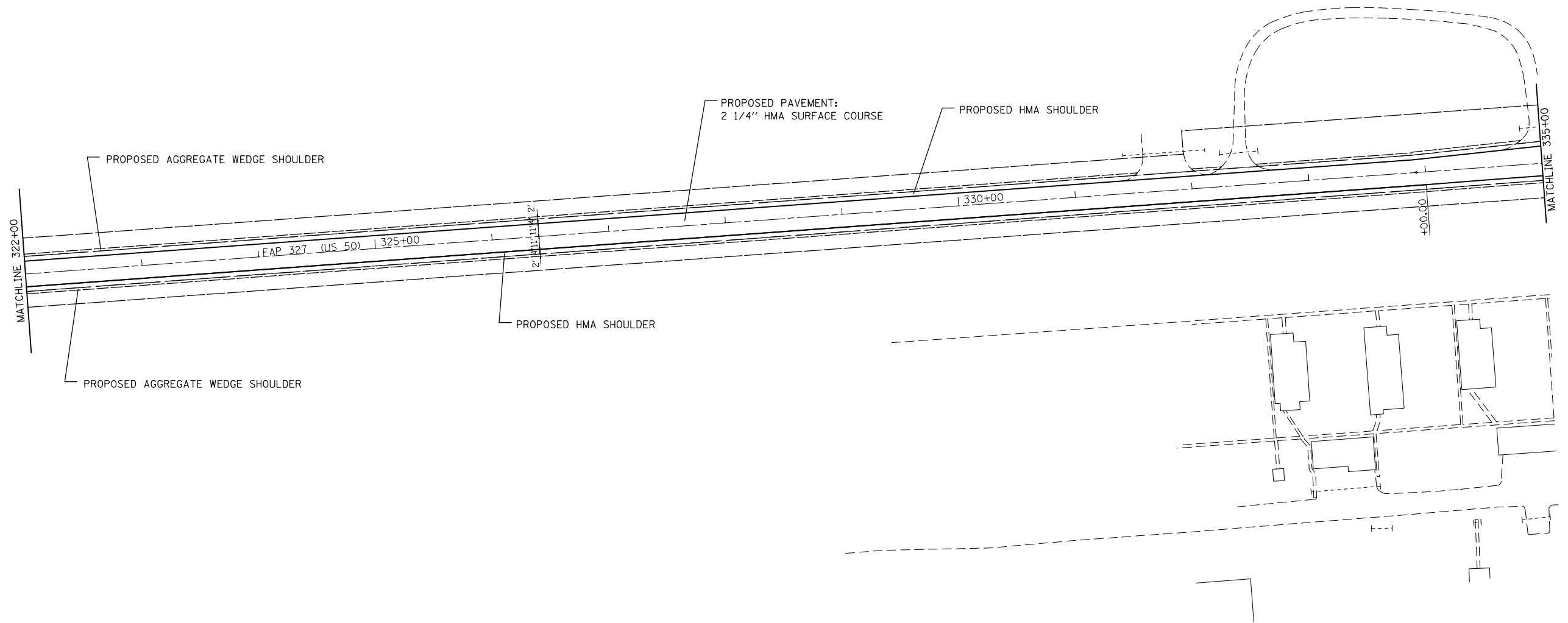
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PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	40
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 76F28				



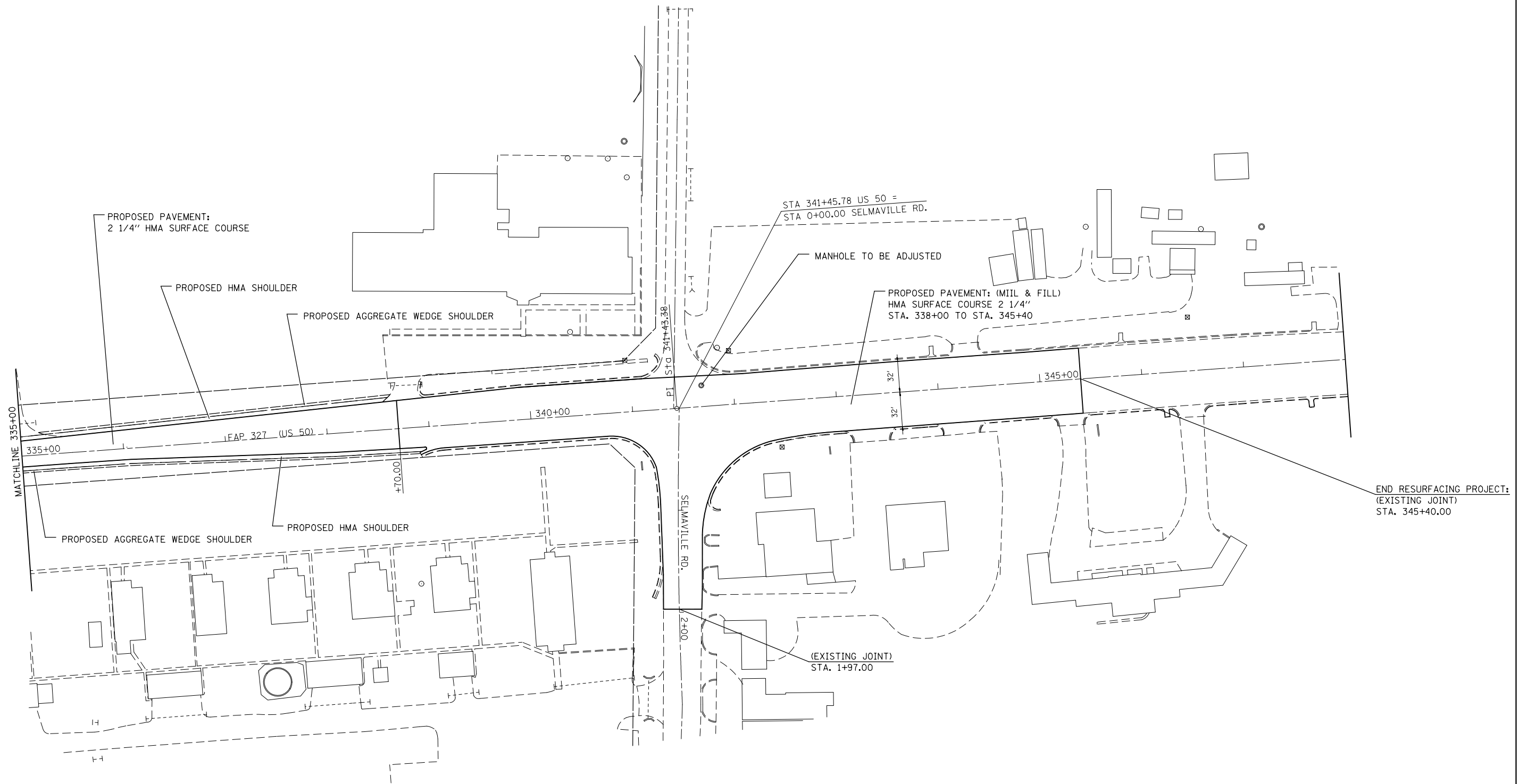
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PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	41
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



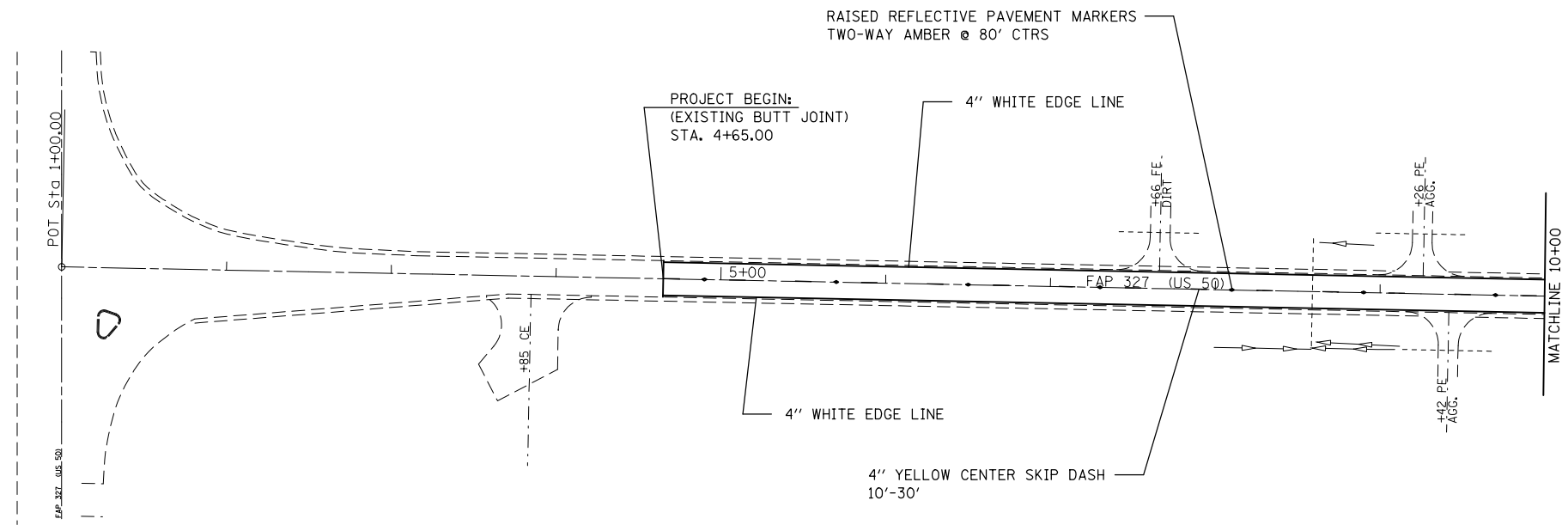
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**STATE OF ILLINOIS
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PLAN VIEW

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	42
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



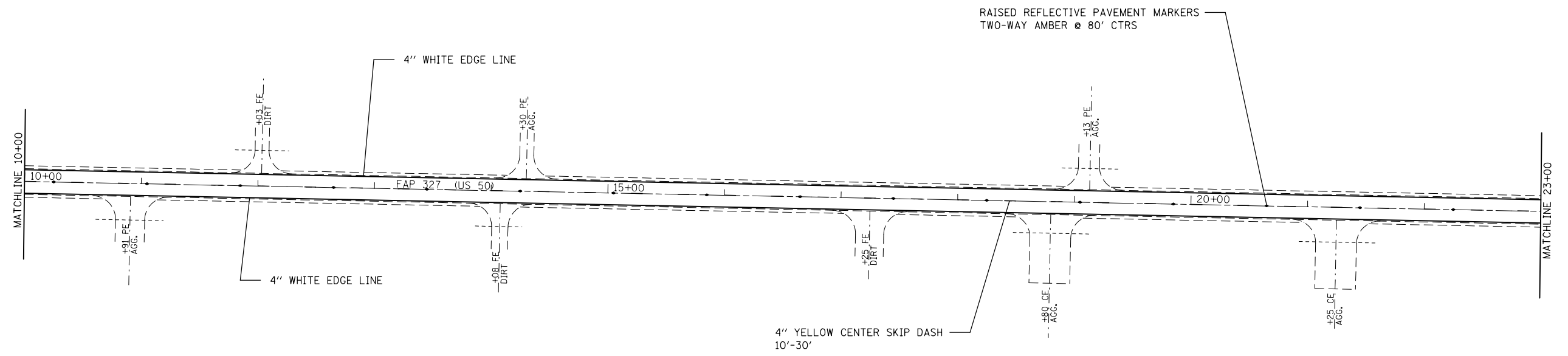
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**STATE OF ILLINOIS
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PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	43
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



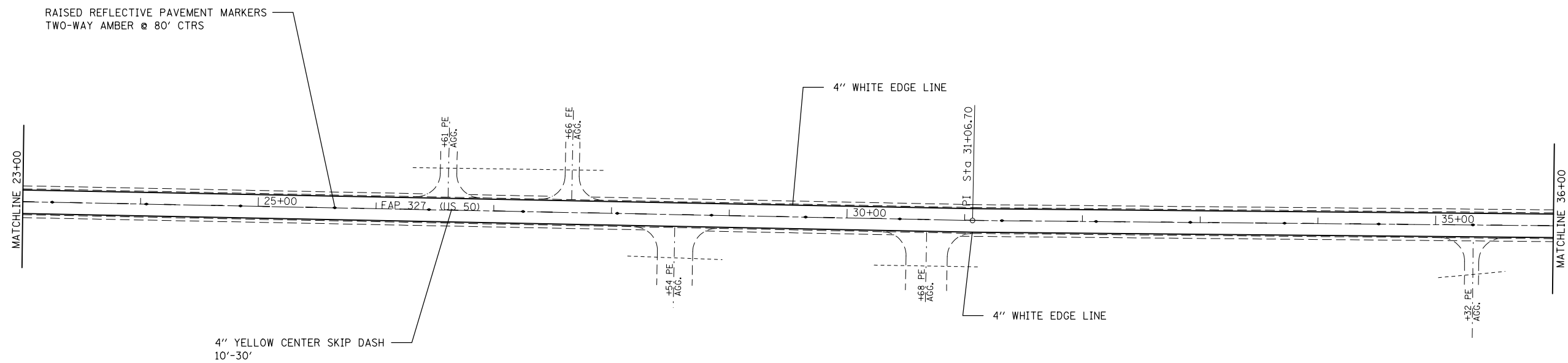
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**STATE OF ILLINOIS
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PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	44
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



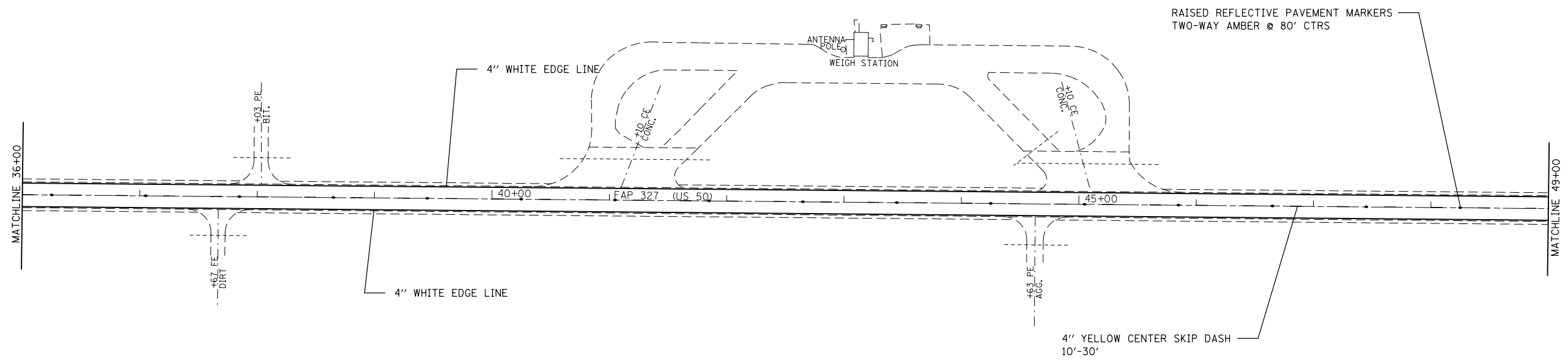
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

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PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	45
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 76F28				

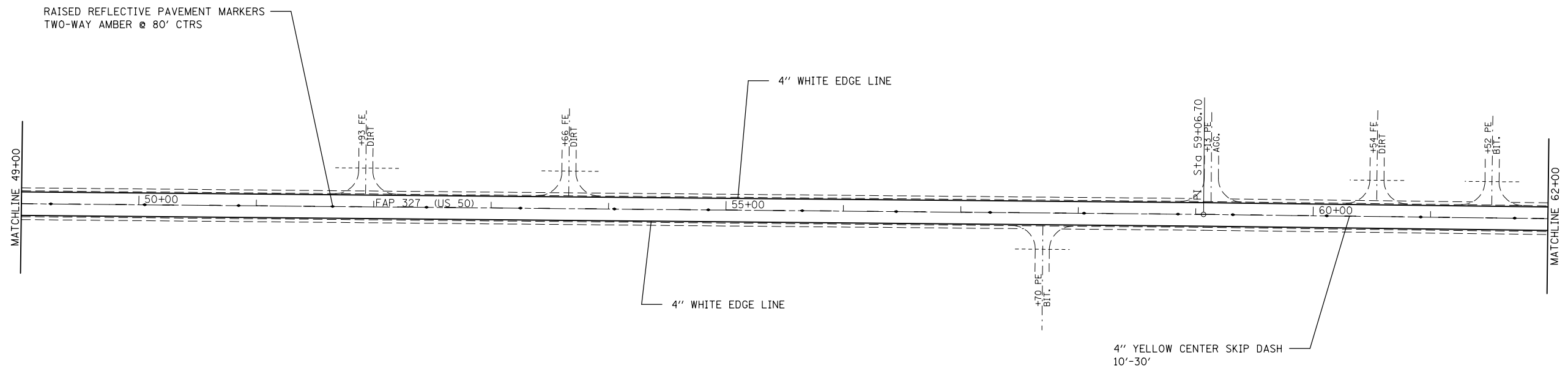


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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	46
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



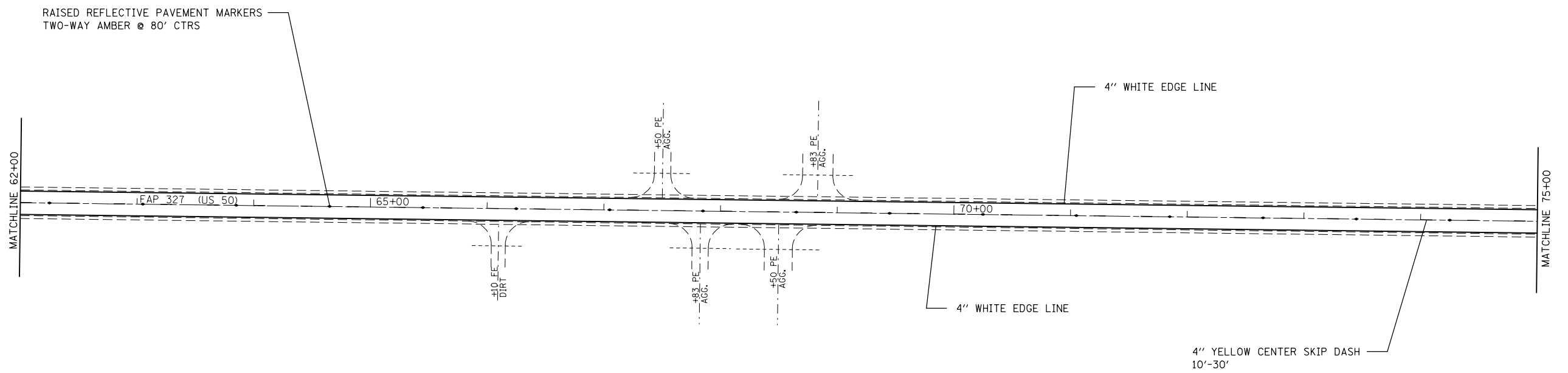
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
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PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	47
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 76F28				

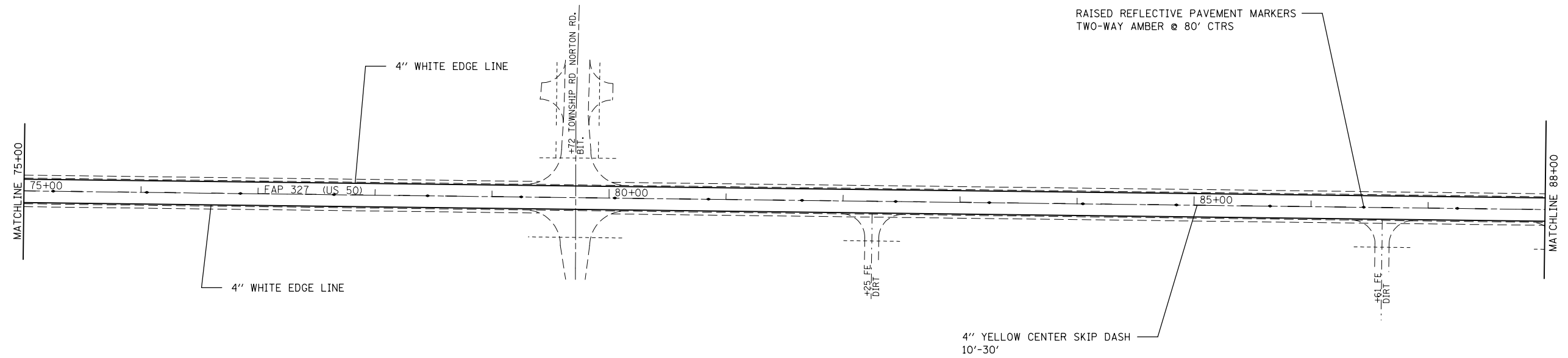


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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	48
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



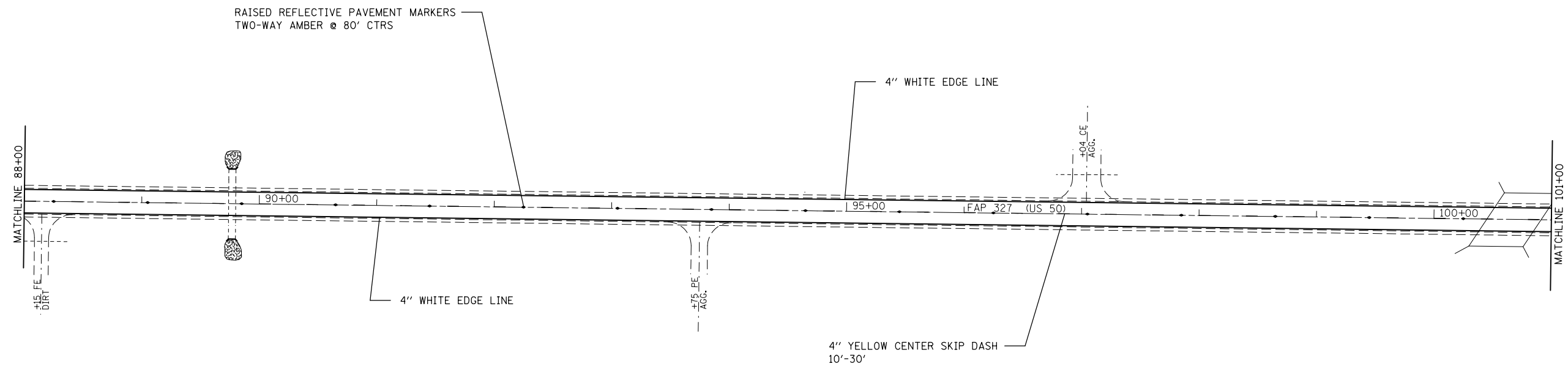
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	49
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 76F28				

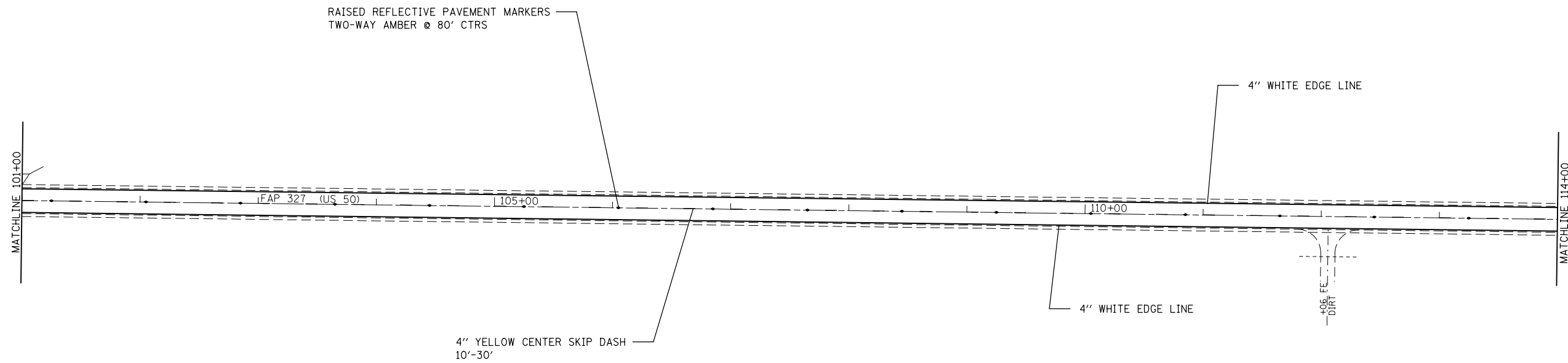


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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	50
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



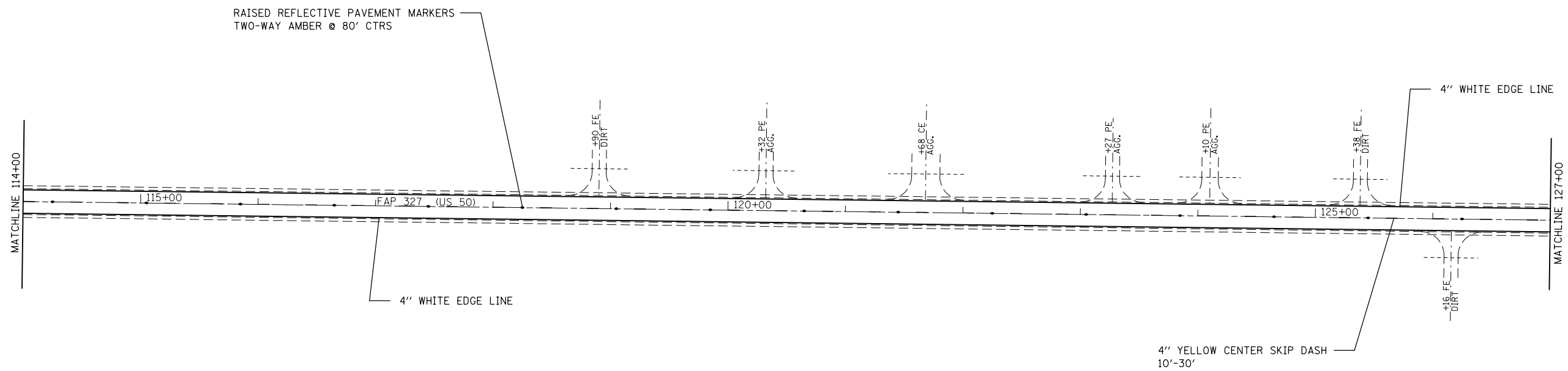
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	51
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	

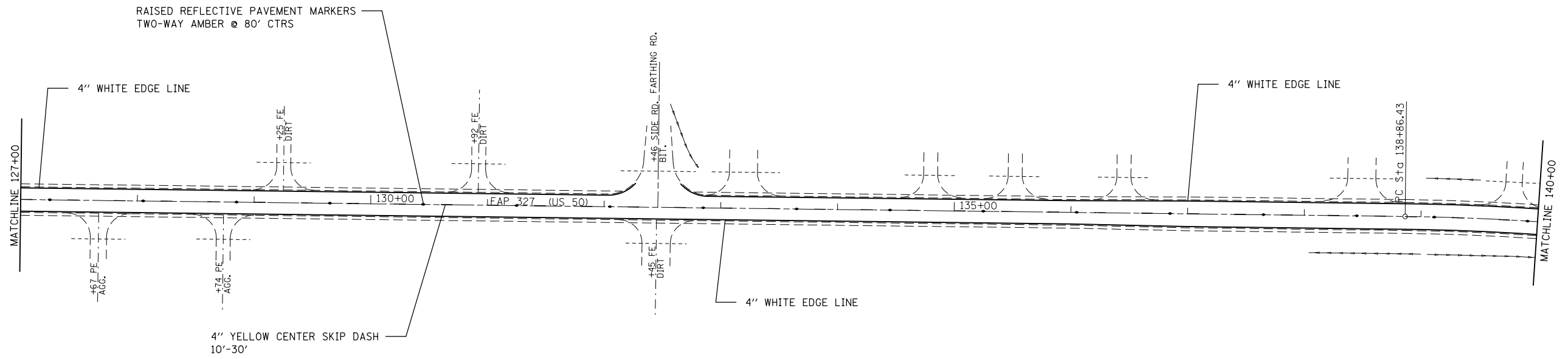


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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	52
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

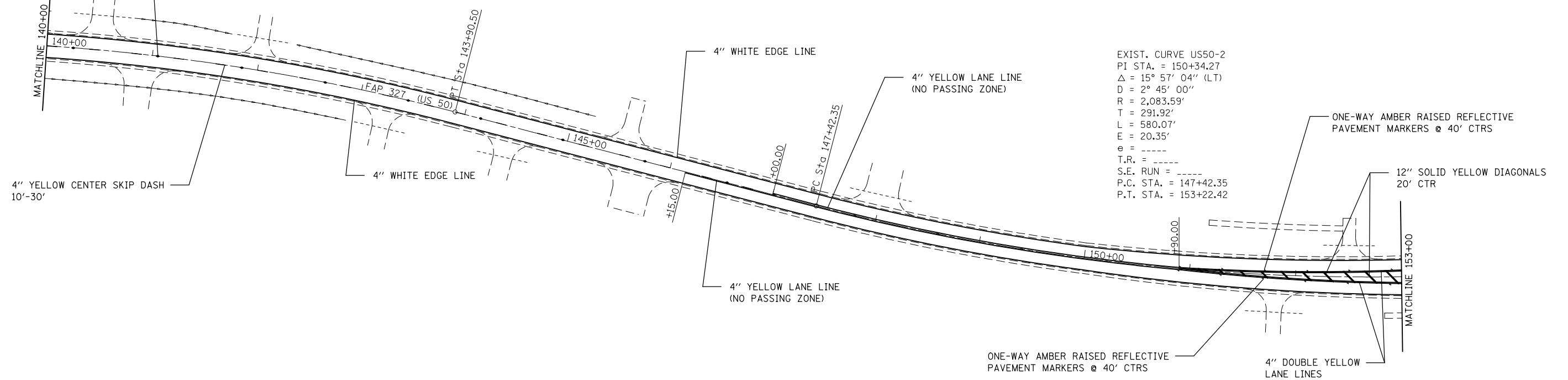
SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	53
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



RAISED REFLECTIVE PAVEMENT MARKERS
TWO-WAY AMBER @ 80' CTRS

EXIST. CURVE US50-1
PI STA. = 141+39.70
 Δ = 13° 51' 39" (RT)
D = 2° 44' 59"
R = 2,083.64'
T = 253.27'
L = 504.07'
E = 15.34'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 138+86.43
P.T. STA. = 143+90.50



EXIST. CURVE US50-2
PI STA. = 150+34.27
 Δ = 15° 57' 04" (LT)
D = 2° 45' 00"
R = 2,083.59'
T = 291.92'
L = 580.07'
E = 20.35'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 147+42.35
P.T. STA. = 153+22.42

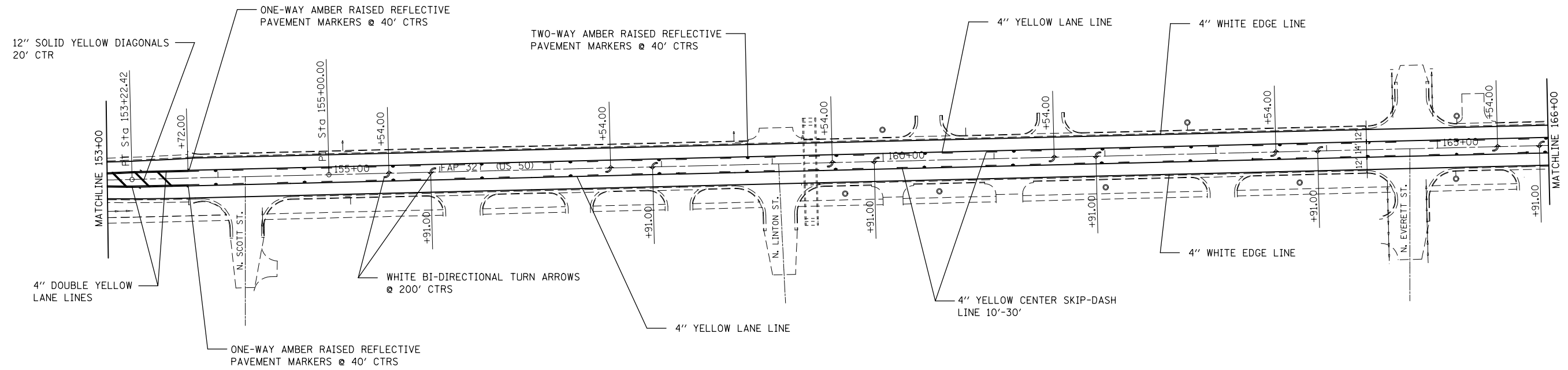
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	54
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



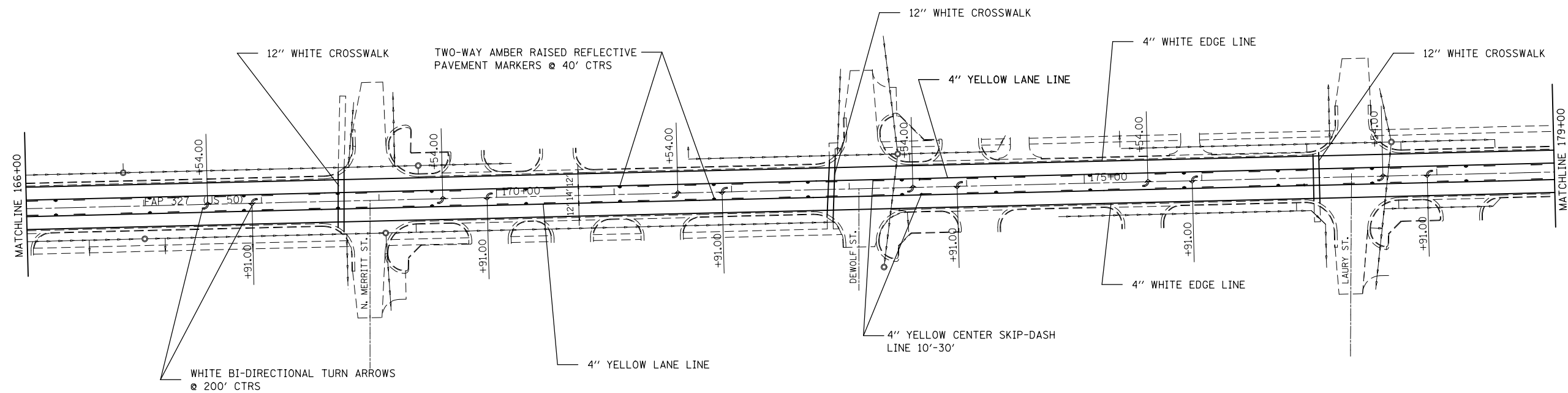
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	55
CONTRACT NO. 76F28				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



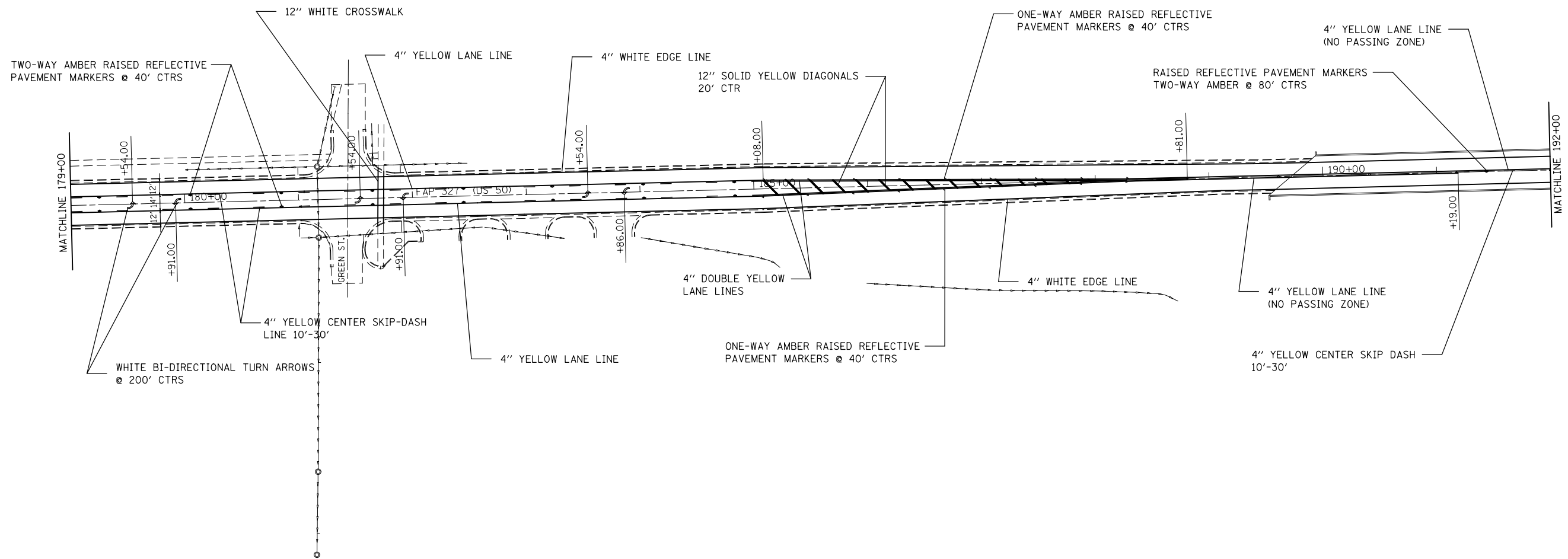
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	56
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



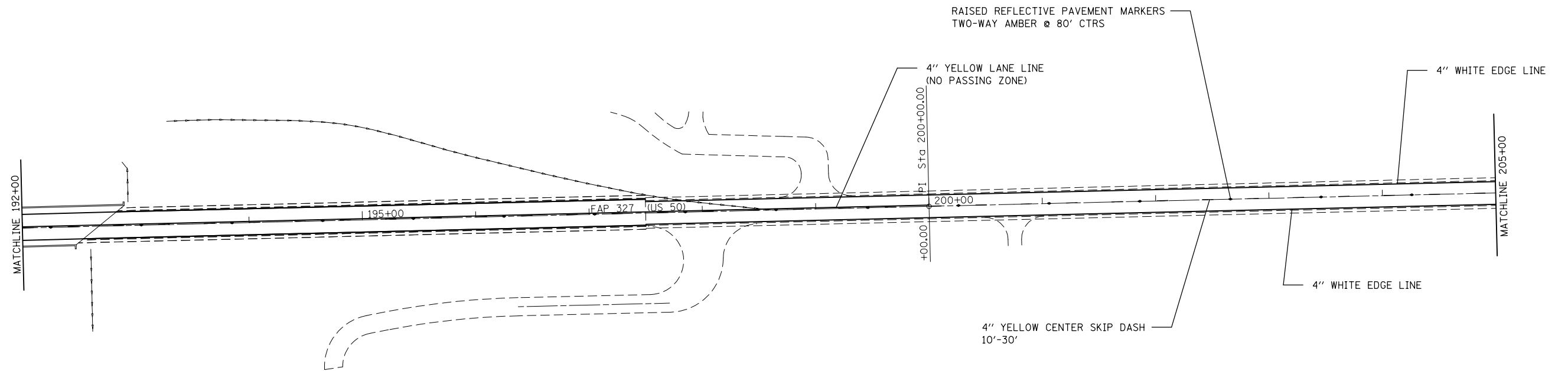
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	57
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 76F28				



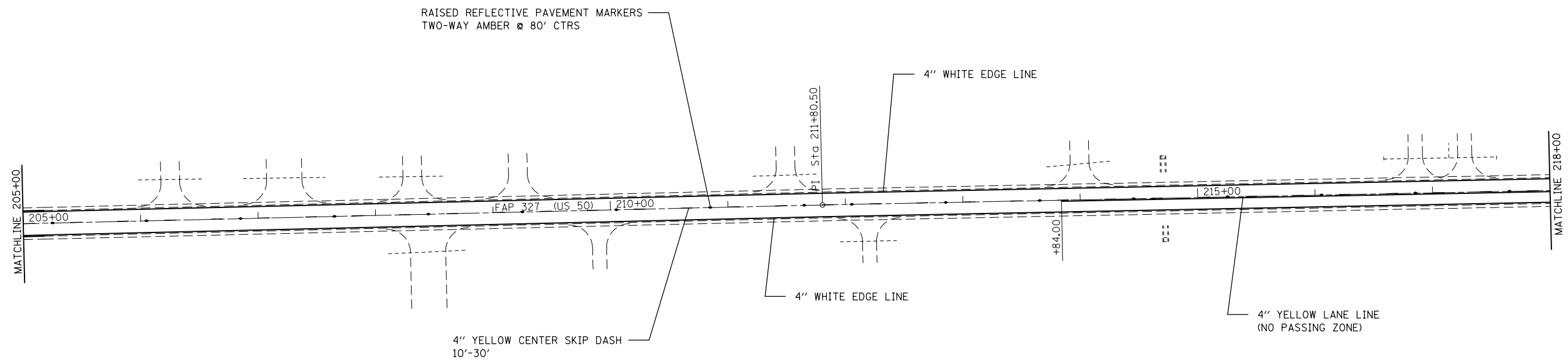
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	58
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



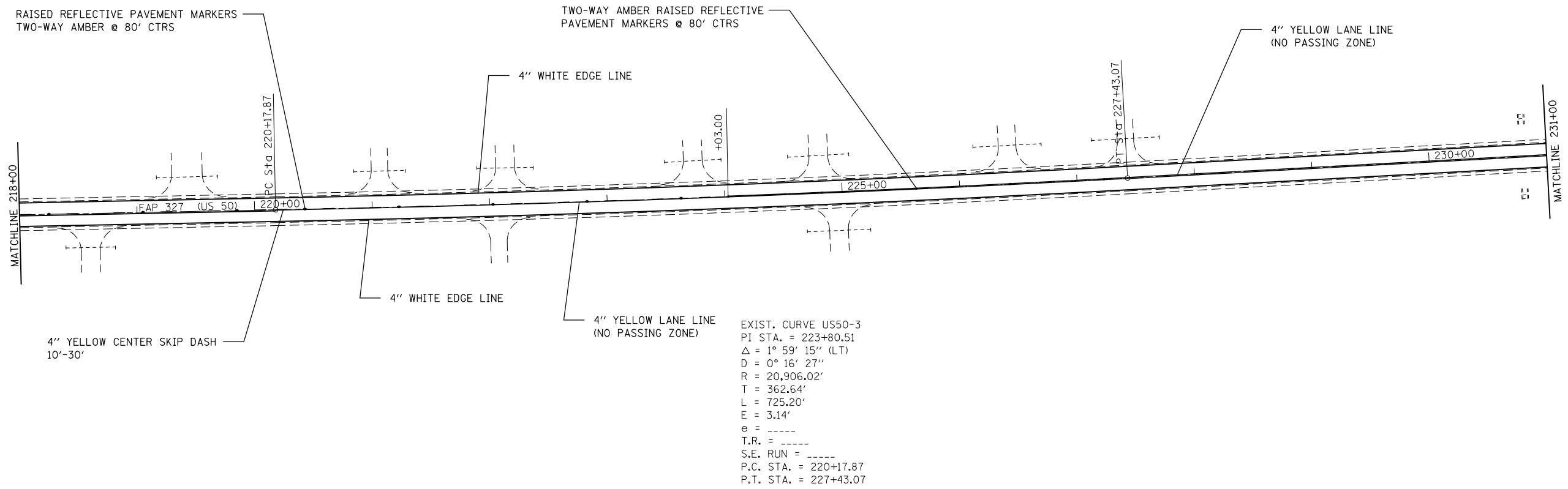
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	59
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



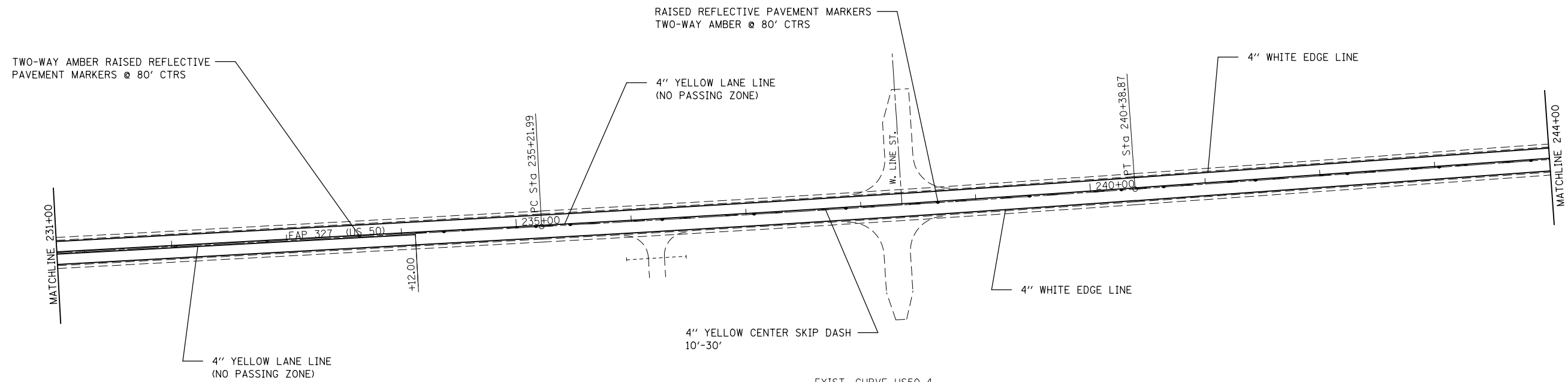
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	60
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXIST. CURVE US50-4
 PI STA. = 237+80.44
 $\Delta = 0^\circ 57' 33''$ (LT)
 $D = 0^\circ 11' 08''$
 $R = 30,878.71'$
 $T = 258.45'$
 $L = 516.88'$
 $E = 1.08'$
 $\theta = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 P.C. STA. = 235+21.99
 P.T. STA. = 240+38.87

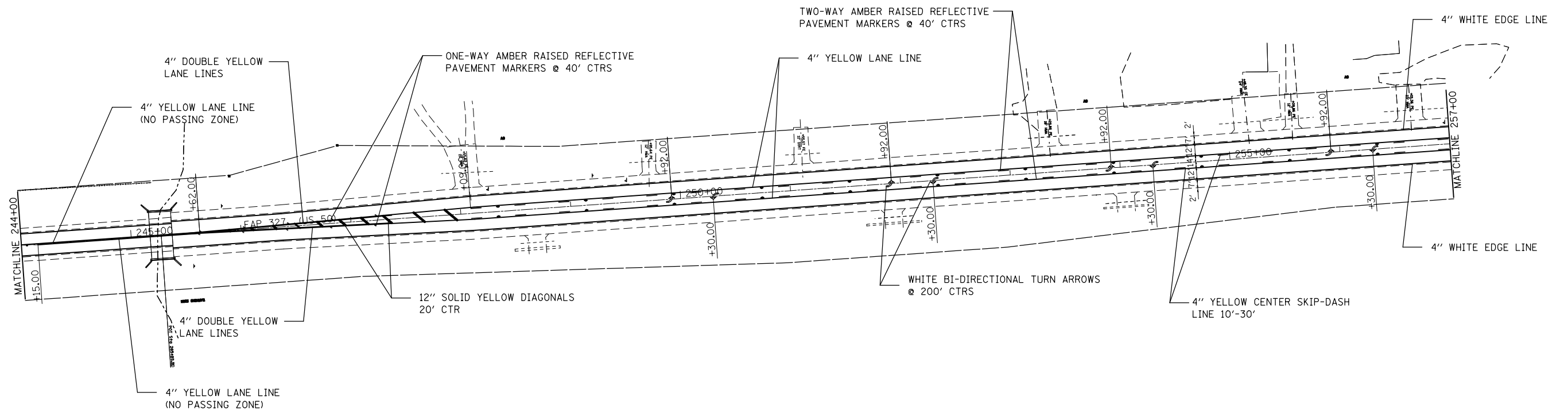
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	61
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



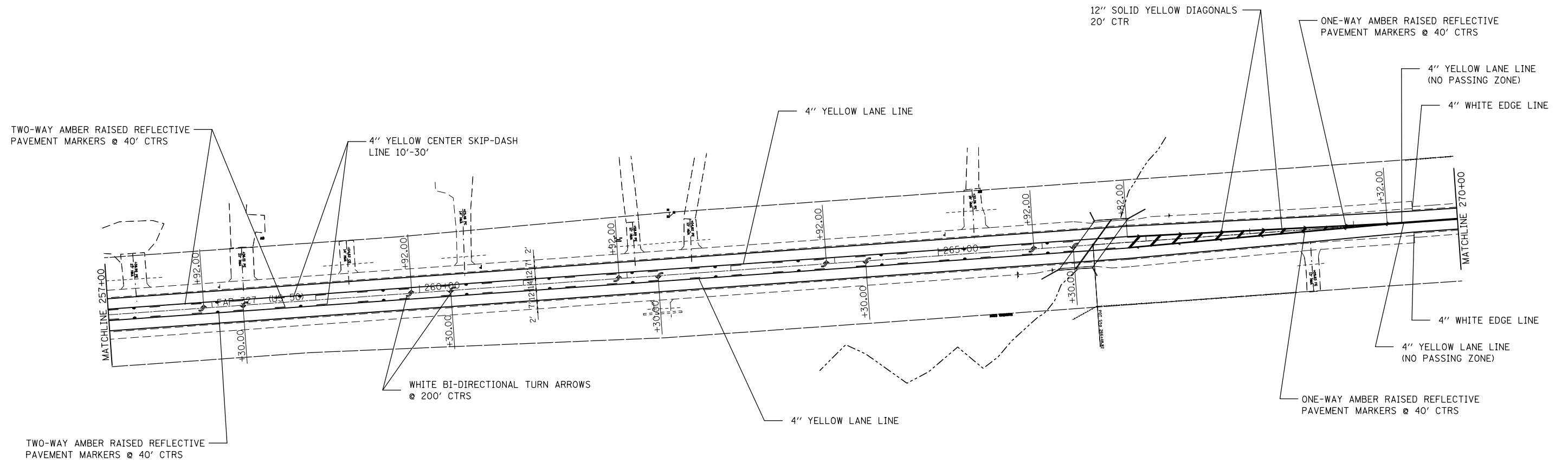
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	62
CONTRACT NO. 76F28				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



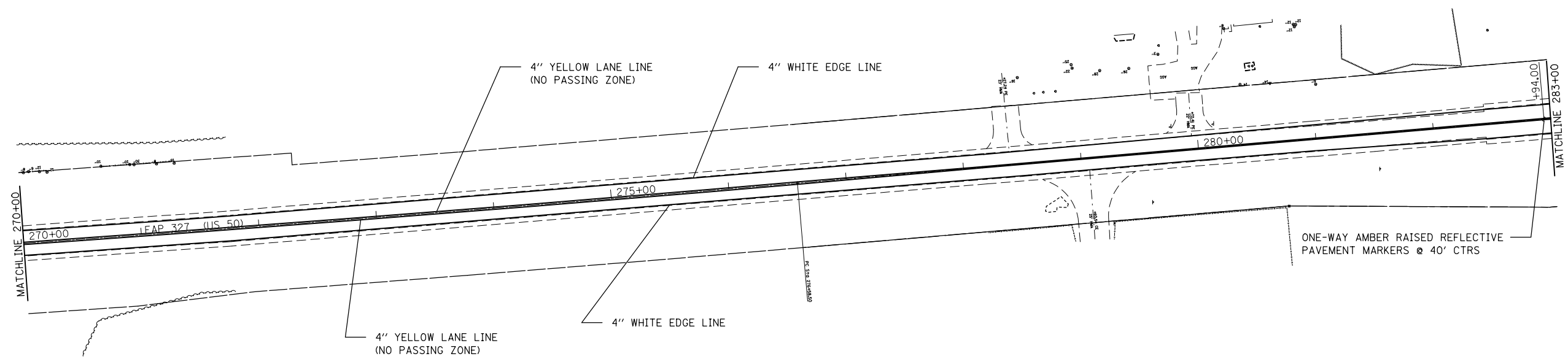
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	63
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



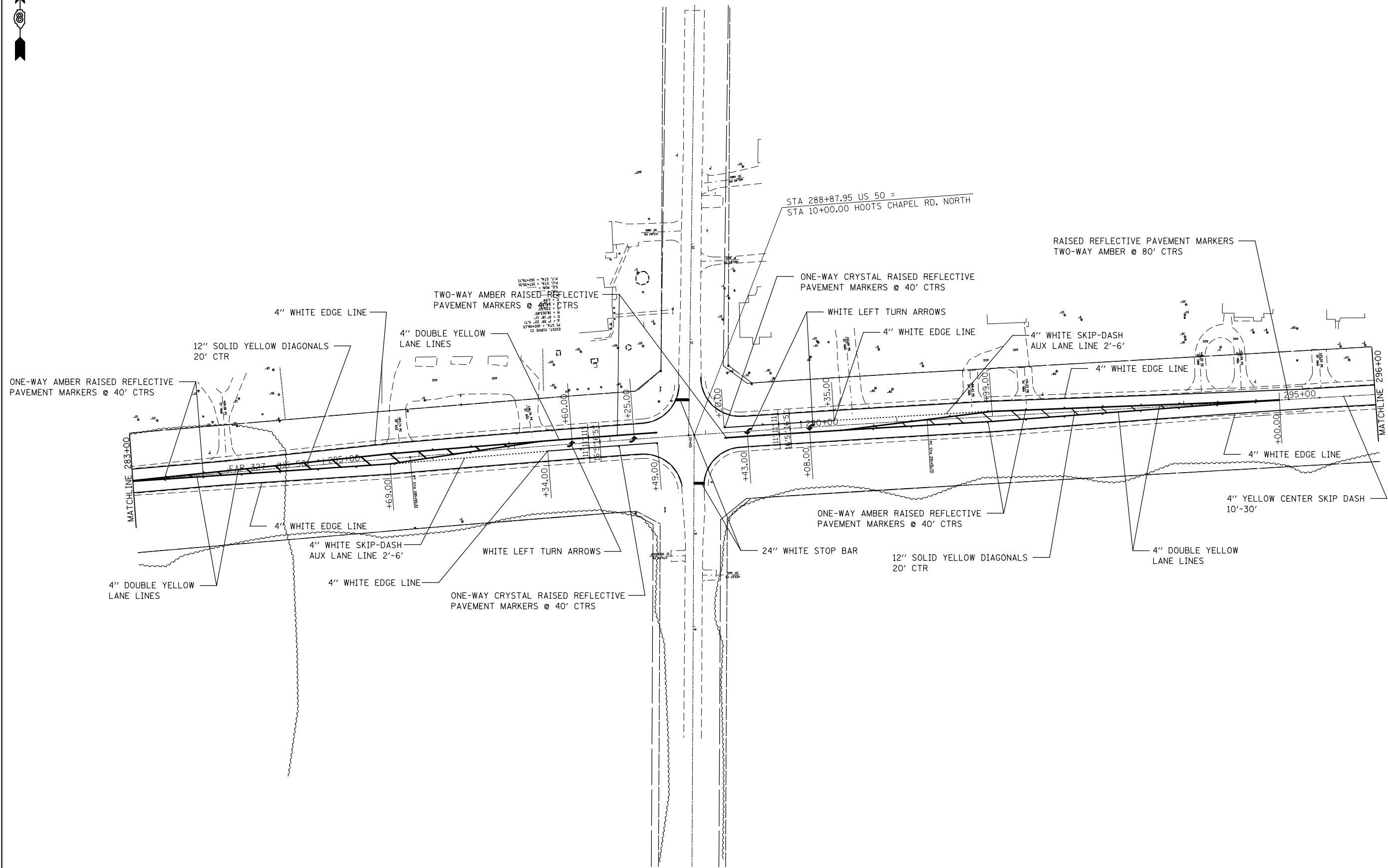
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	64
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



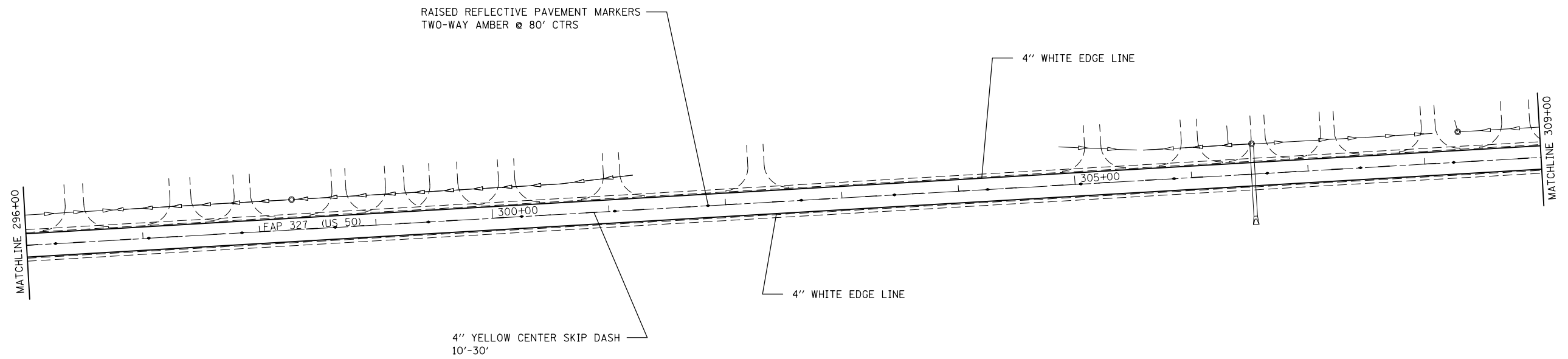
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	65
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



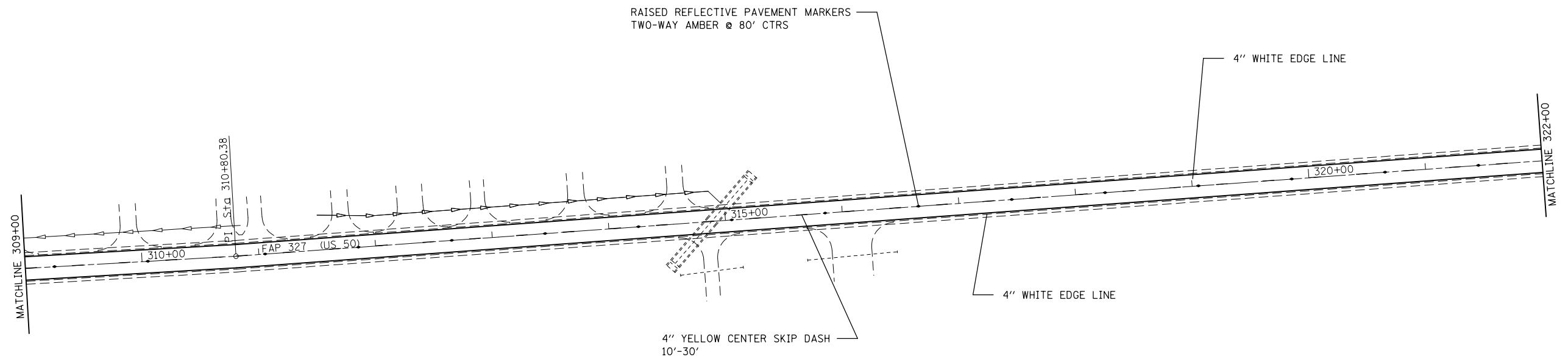
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	66
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



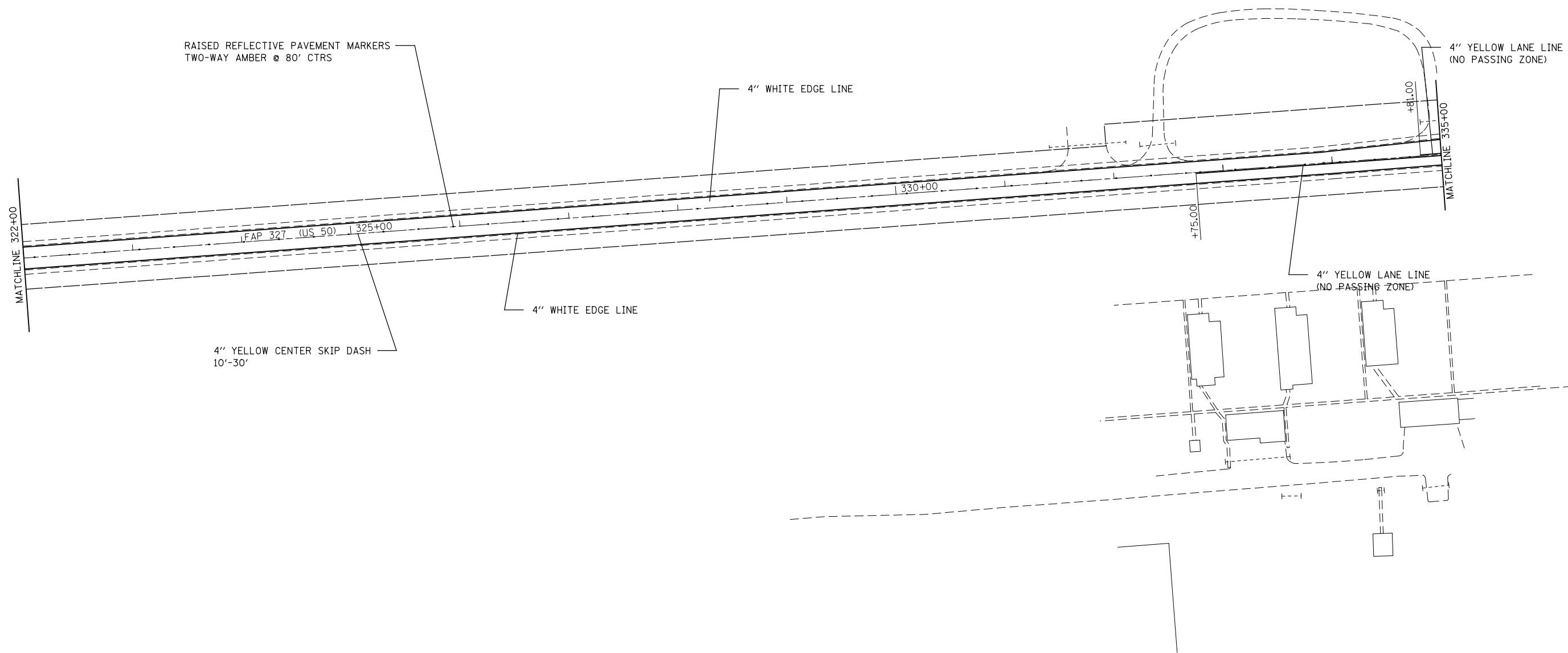
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	67
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



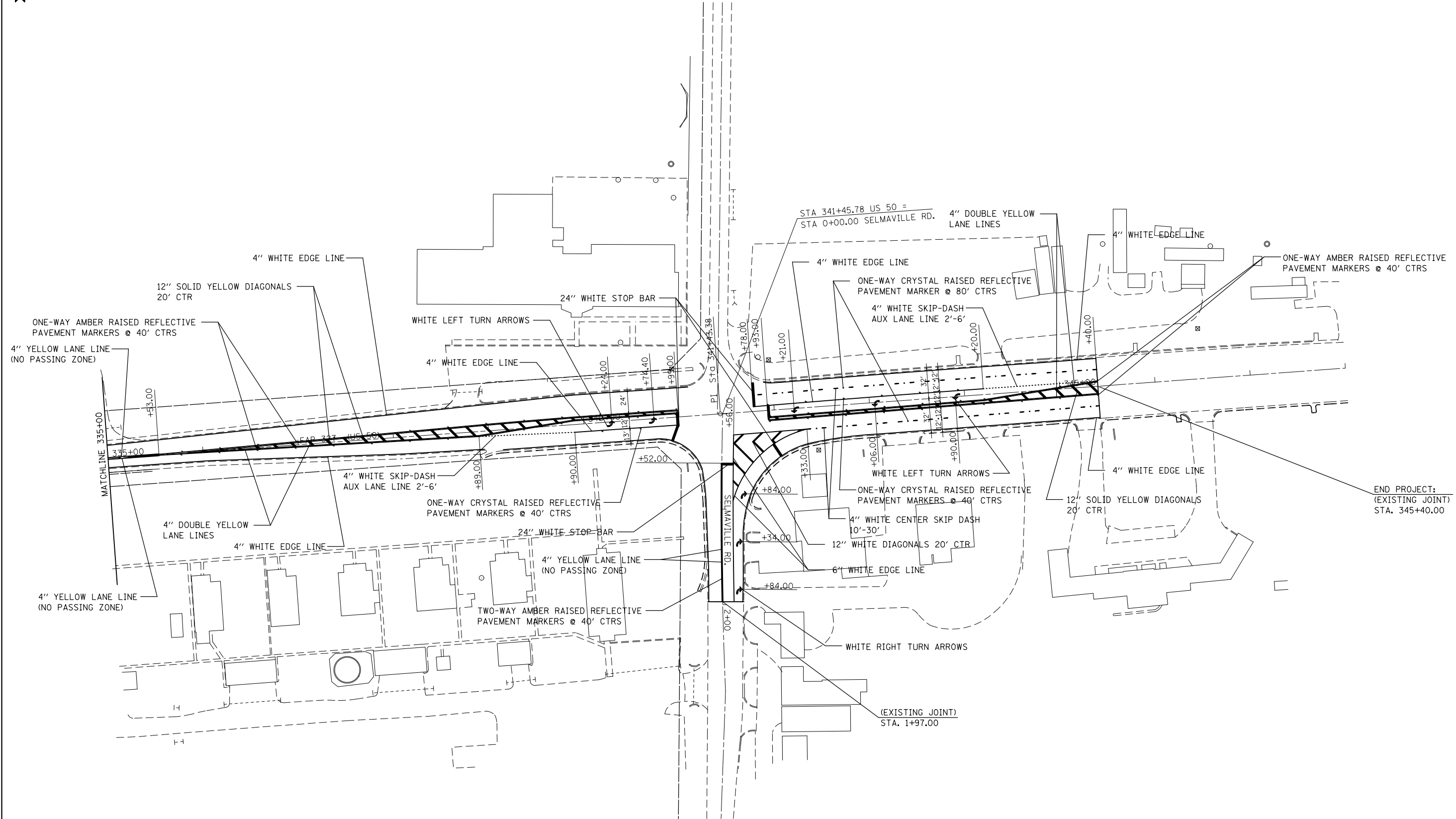
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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	68
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



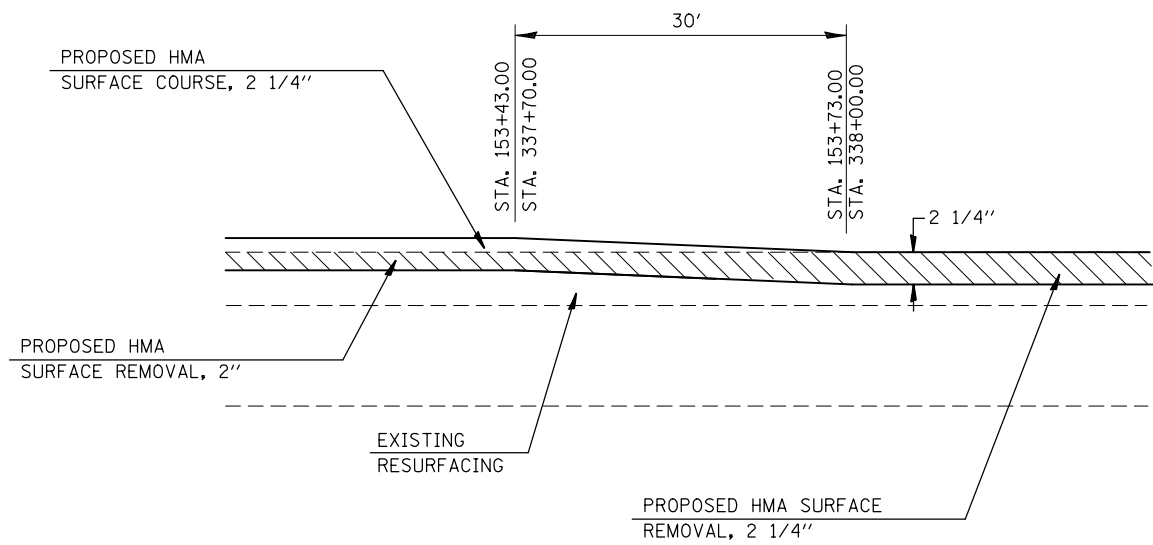
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

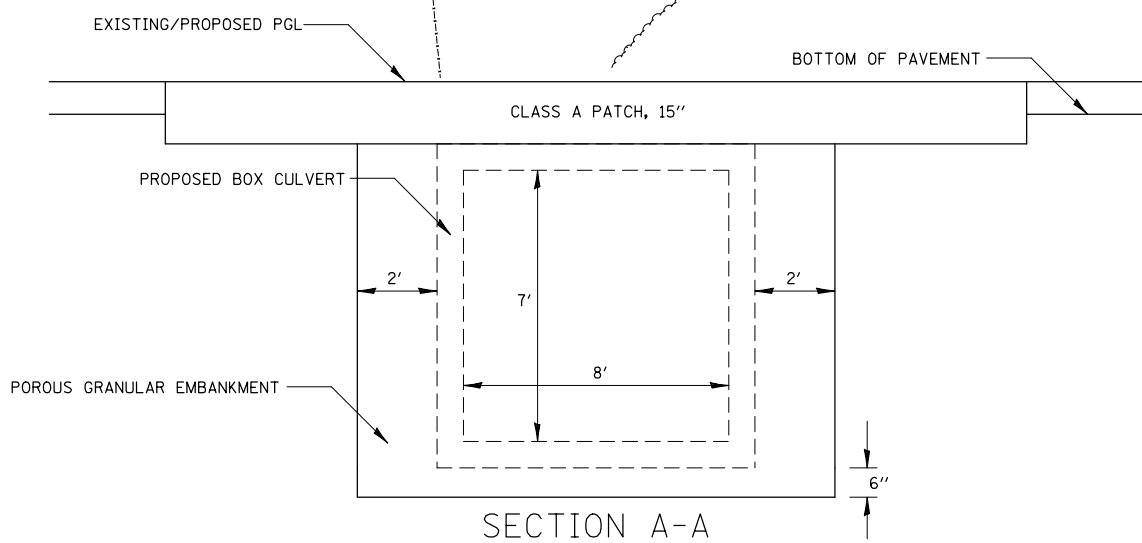
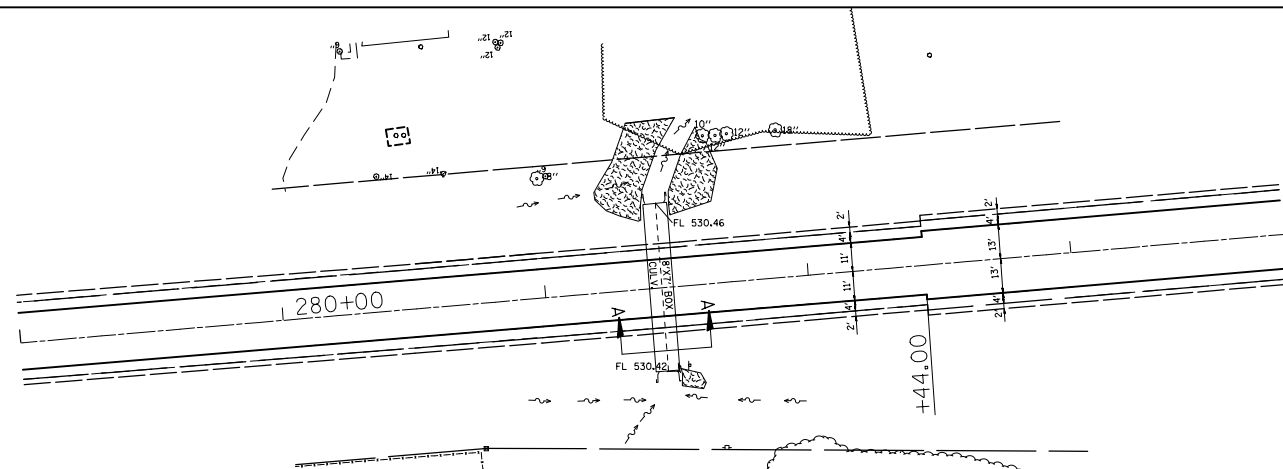
PAVEMENT MARKINGS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

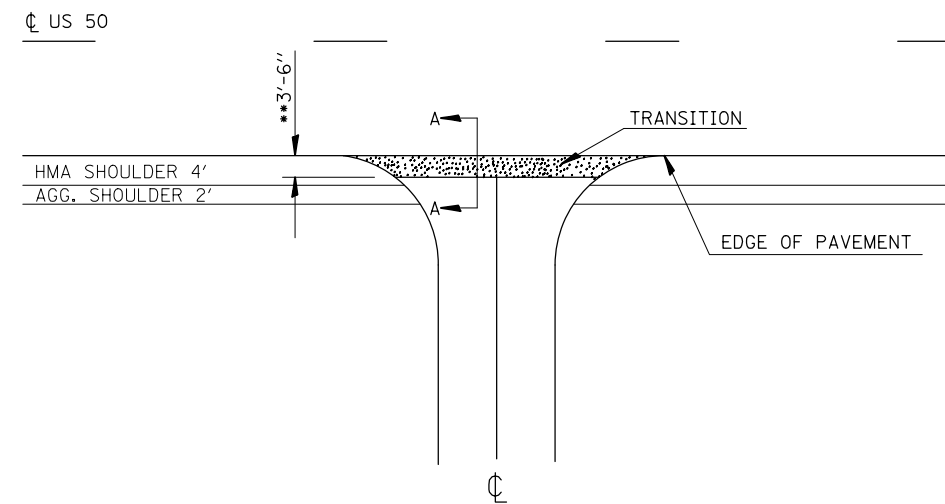
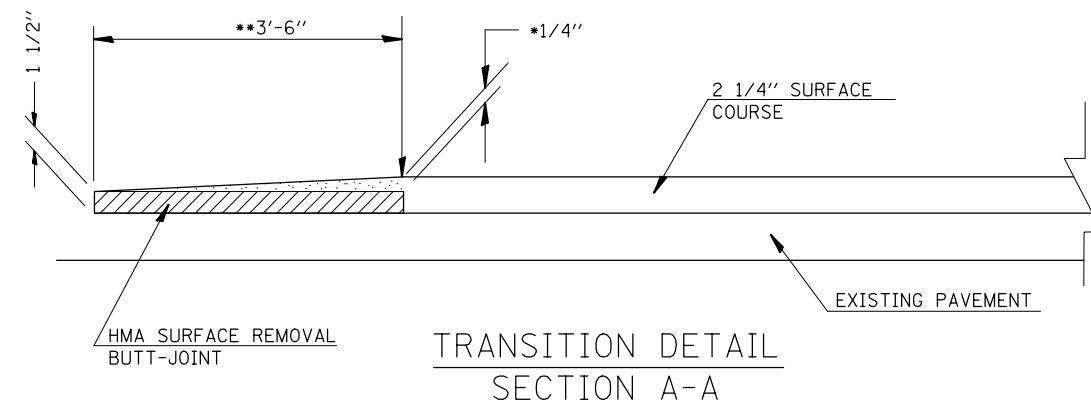
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	69
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



RESURFACING TRANSITIONS



BOX CULVERT DETAIL



SIDEROAD DETAIL

*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'

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 SIDE ROAD.

SIDEROAD TRANSITION DETAIL

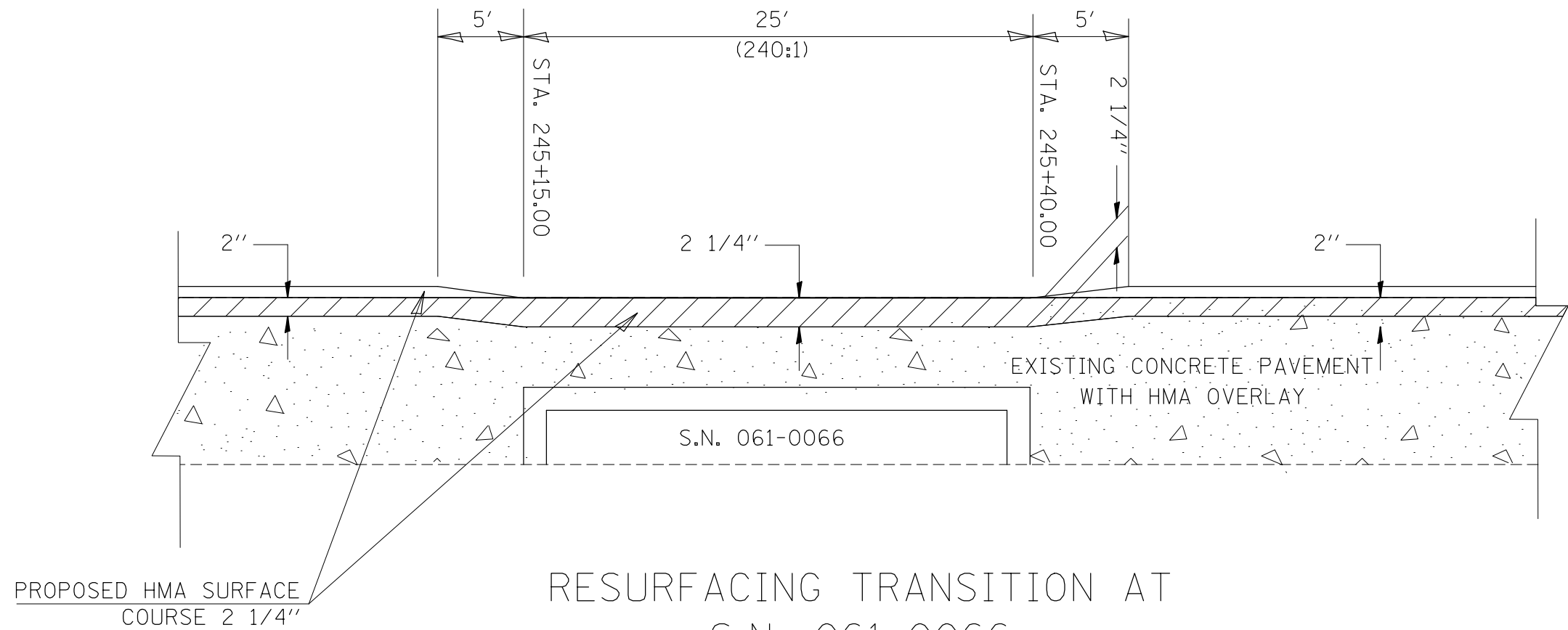
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/20/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	70
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



RESURFACING TRANSITION AT
S.N. 061-0066

(MILL&FILL)
STA. 245+15.00 TO STA. 245+40



HMA SURFACE REMOVAL
(VARIES 2" TO 2 1/4")

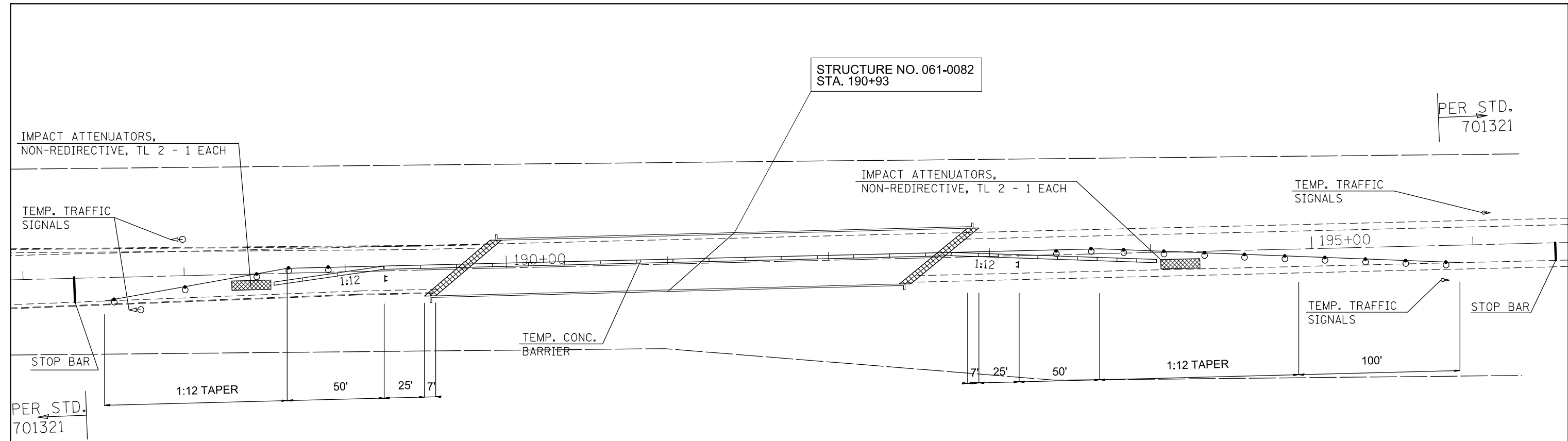
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/20/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

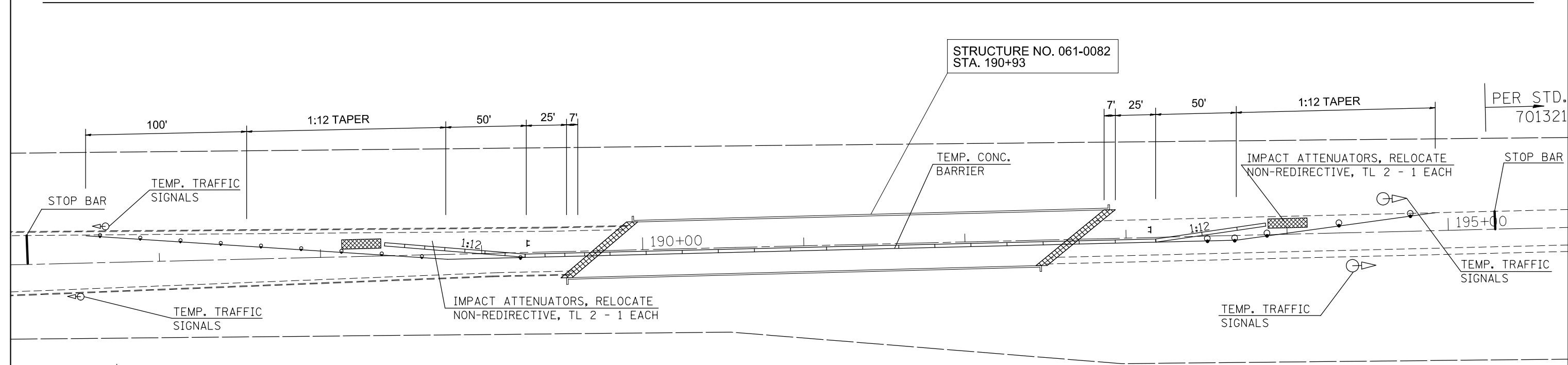
BUTT JOINT DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	71
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F28	



STAGE 1 CONSTRUCTION



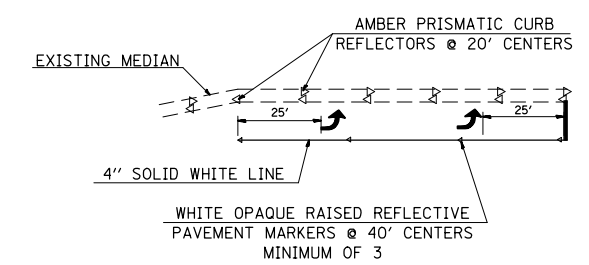
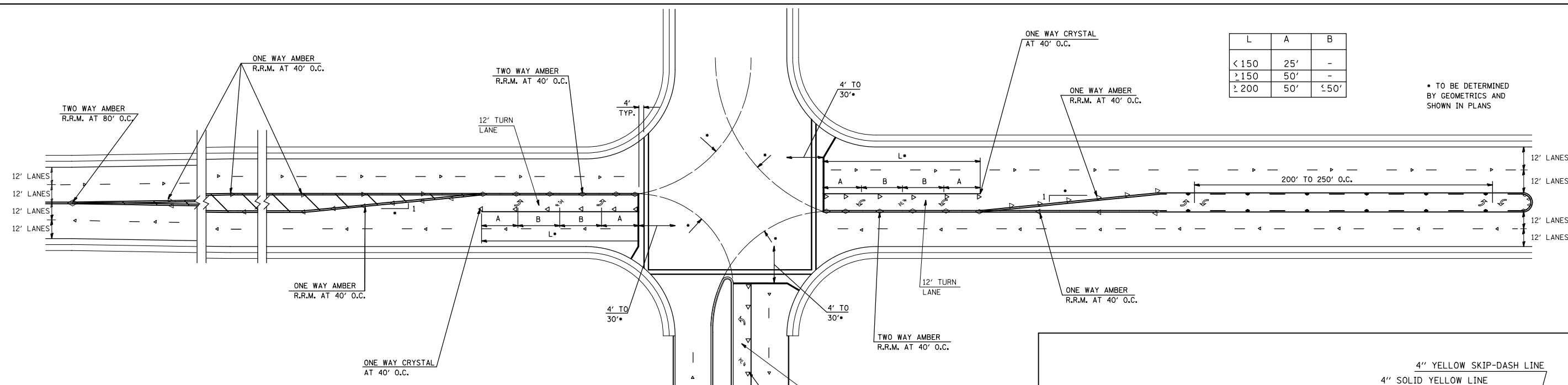
PER STD.
701321

STAGE 2 CONSTRUCTION

FILE NAME =	USER NAME = milleraj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 & 2 CONSTRUCTION 061-0082				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
et:\pwork\pwork\milleraj\02282308\0876f28-sh1-plan.dgn		DRAWN -	REVISED -		SCALE: NTS	SHEET NO.	OF	SHEETS	STA.	TO STA.	327	(16,17,18)RS-3	MARION	83	73
		CHECKED -	REVISED -												
		DATE -	REVISED -												
	PLOT SCALE = 100.0000' / 1" =								CONTRACT NO. 76F28						
	PLOT DATE = 3/20/2014								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

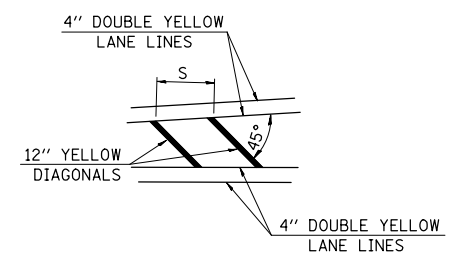
L	A	B
< 150	25'	-
≥ 150	50'	-
≥ 200	50'	≤ 50'

• TO BE DETERMINED BY GEOMETRICS AND SHOWN IN PLANS

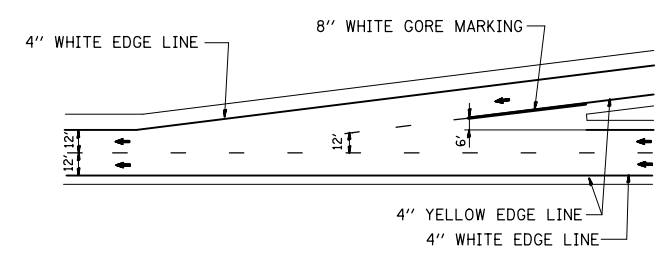


TYPICAL APPLICATION FOR LEFT TURN LANE WITH PRISMATIC CURB REFLECTORS
DETAIL 'D'

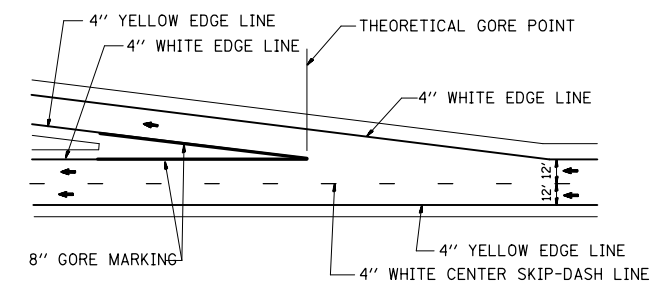
SPEED	CHANNELIZATION & GORES	OBJECTS	CONTINUOUS
< 30 MPH	15'	10'	50'
30-45 MPH	20'	15'	75'
> 45 MPH	30'	20'	150'



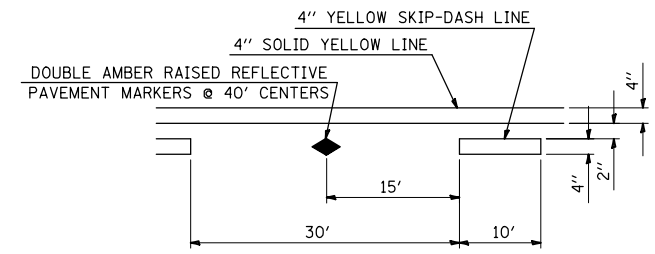
TYPICAL APPLICATION FOR MEDIAN STRIPING



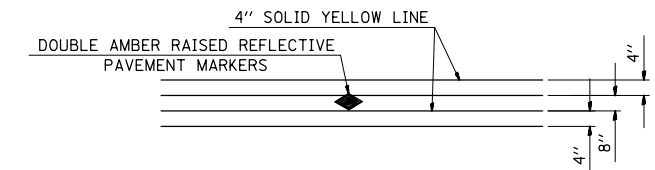
TYPICAL ENTRANCE RAMP MARKINGS



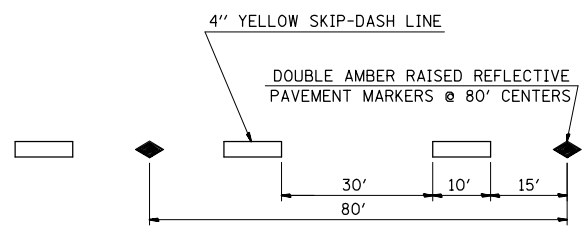
TYPICAL EXIT RAMP MARKINGS



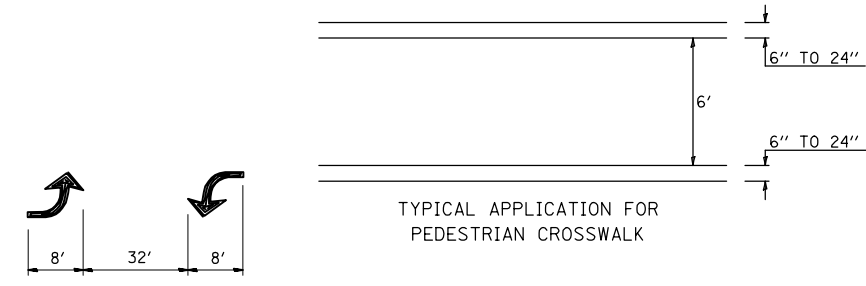
TYPICAL APPLICATION FOR BI-DIRECTIONAL TURN LANE WITH RAISED REFLECTIVE PAVEMENT MARKERS



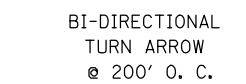
TYPICAL APPLICATION FOR DOUBLE YELLOW LANE LINES WITH RAISED REFLECTIVE PAVEMENT MARKERS



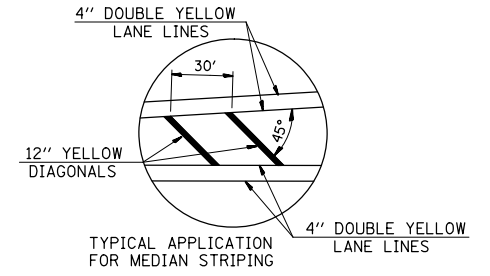
TYPICAL APPLICATION FOR YELLOW SKIP-DASH LINES WITH RAISED REFLECTIVE PAVEMENT MARKERS



TYPICAL APPLICATION FOR PEDESTRIAN CROSSWALK

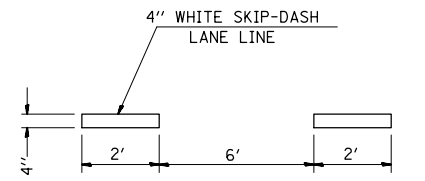


BI-DIRECTIONAL TURN ARROW @ 200' O. C.



TYPICAL APPLICATION FOR MEDIAN STRIPING

DETAIL 'A'
NOT TO SCALE



TYPICAL APPLICATION FOR WHITE AUX SKIP-DASH LANE LINES

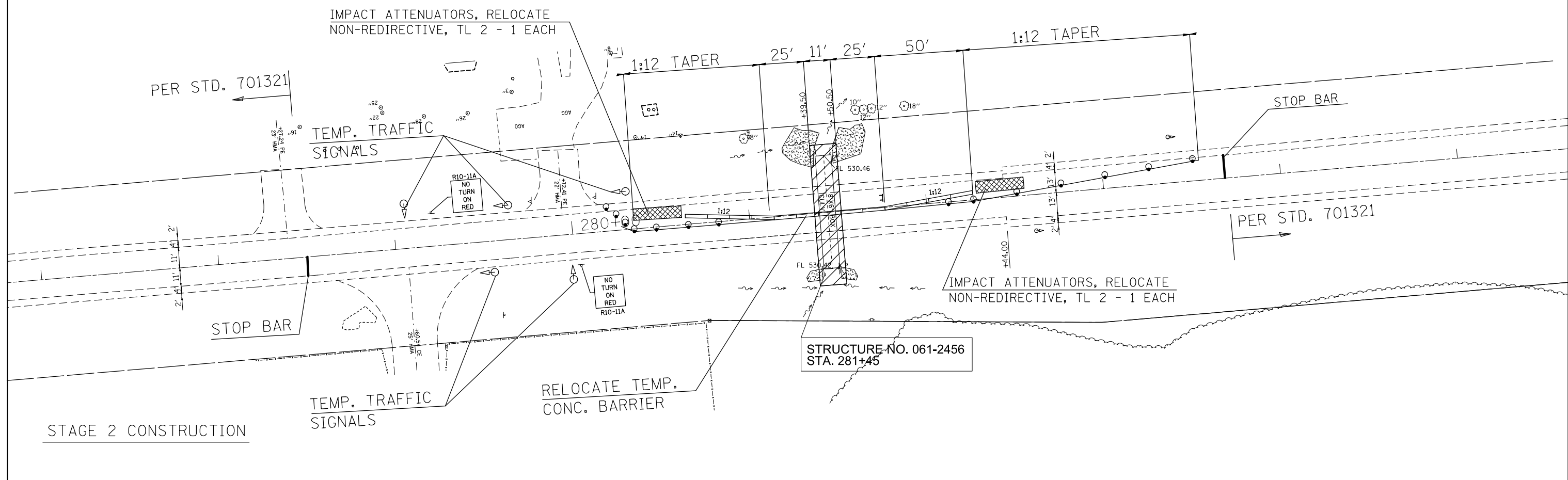
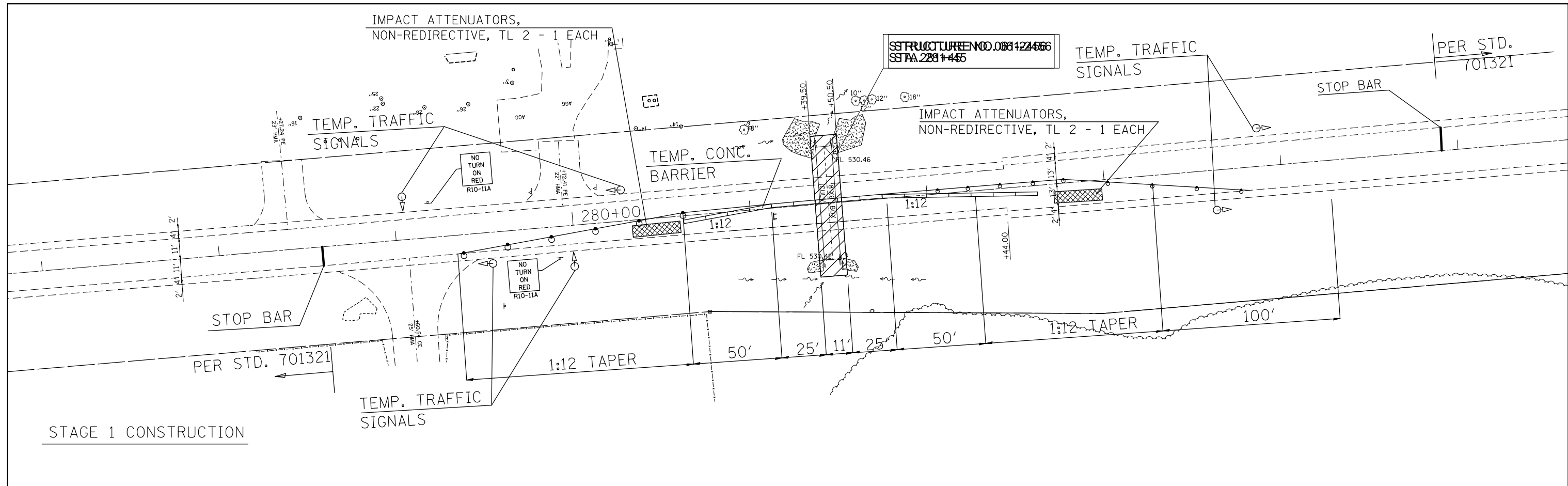
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	72
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = milleraj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 & 2 CONSTRUCTION 061-2456			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\midot\milleraj\02282308\0876f28-sht-plan.dgn	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -					327	(16,17,18)RS-3	MARION	83	74
PLOT DATE = 3/20/2014	DATE -	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 76F28				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of AASHTO M 259 or M 273 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of sections shown in Side Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. All anchor rods in a culvert tie assembly shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to approval of the Engineer.

The headwall may be cast monolithically with the box section or a superimposed headwall may be cast directly onto the box sections. Anchor rods shall conform to the requirements of Article 1006.09 of the Standard Specifications and the anchor rods and associated hardware for securing the superimposed headwall to the box section shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. Class SI concrete may be used for construction of superimposed headwall.

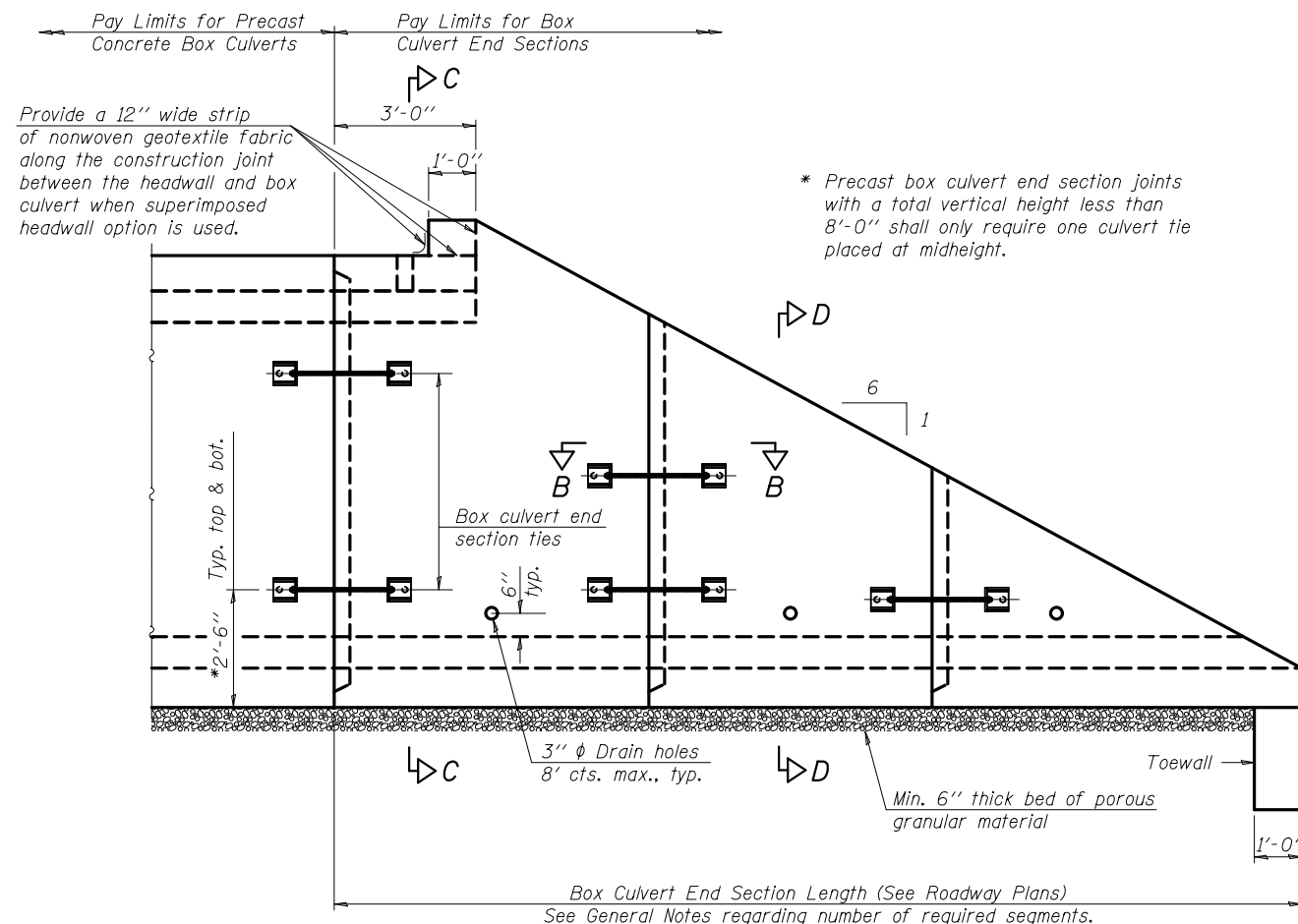
In lieu of using ferrule loop inserts, the Contractor may attach the superimposed headwall to the box section by epoxy grouting reinforcement bars according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving the minimum proof load stated with drilled hole depths that do not exceed 2/3 of the thickness of the slab of the box section.

All costs associated with furnishing and installing or constructing the geotextile fabric, toewall, headwall, and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

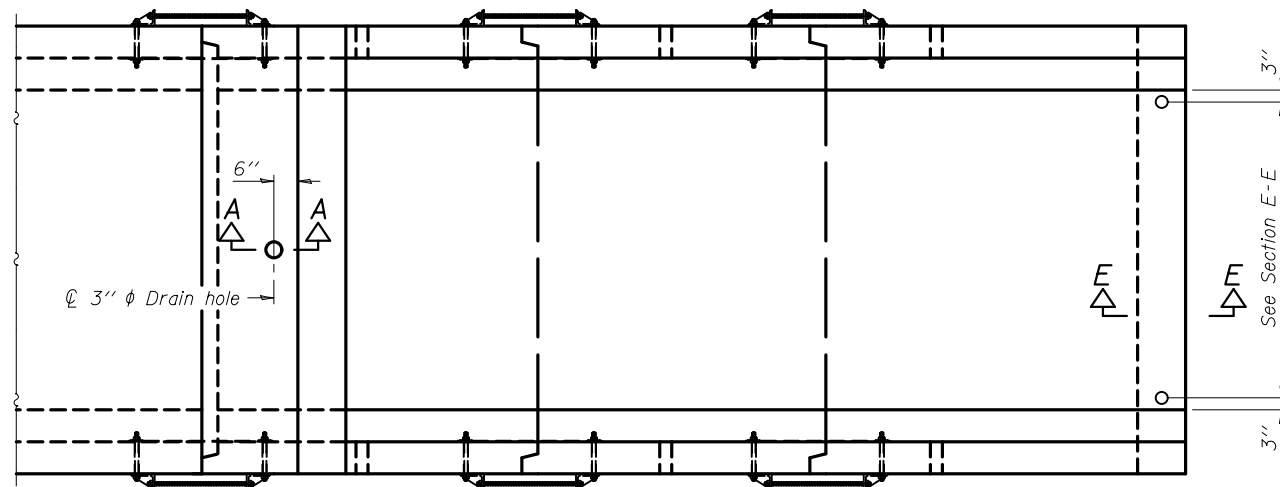
Reinforcement bars designated (E) shall be epoxy coated. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

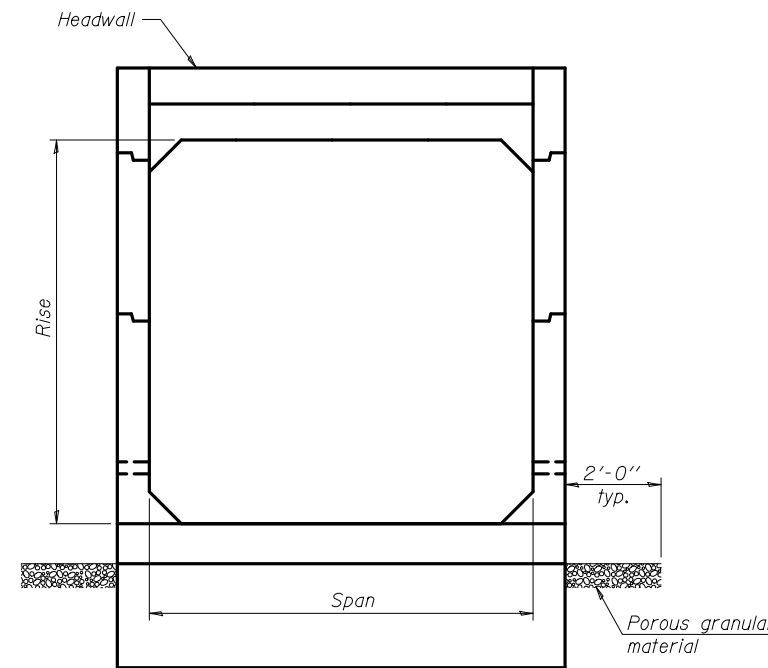
Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..



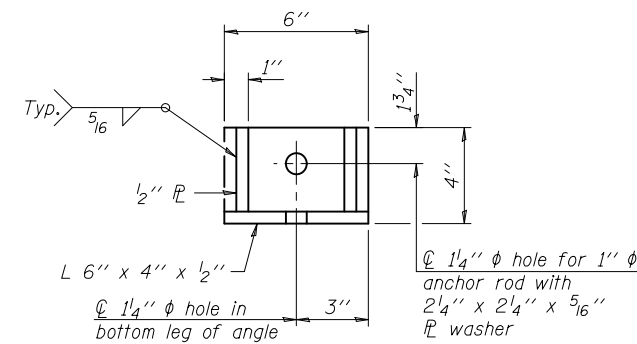
SIDE ELEVATION



PLAN VIEW



END VIEW



RESTRAINT ANGLE DETAIL

12" x 12" block of CA5, CA7 or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

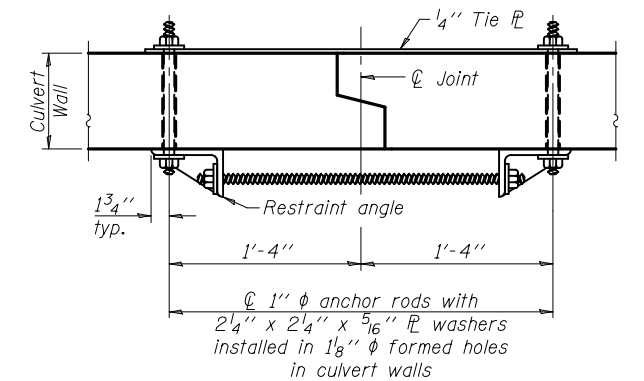
3" ϕ PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blockout around PVC drain (to be removed after concrete has cured)

SECTION A-A

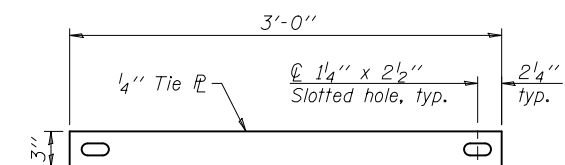
(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)

(Sheet 1 of 2)



SECTION B-B

(Showing culvert tie details)



TIE PLATE DETAIL

DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF BRIDGE DESIGN	
DRAWN -	PASSED	
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BOX CULVERT END SECTION DETAILS

SHEET NO. 1 OF 2 SHEETS

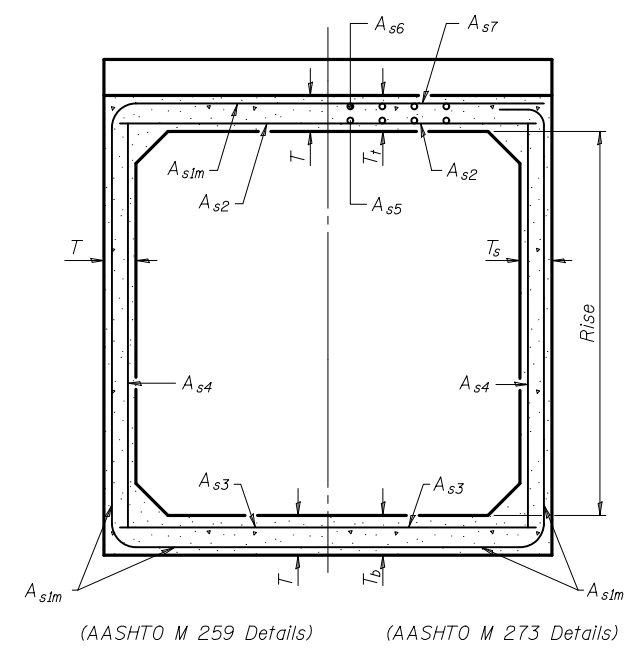
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	(16,17,18)RS-3	MARION	83	75
CONTRACT NO. 76F28				
ILLINOIS FED. AID PROJECT				

T (in.), T _s (in.)	Reinforcing Steel A _{slm} (in. ² /ft.)										
	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.15									
5	0.26	0.21	0.18								
6		0.26	0.23	0.22							
7		0.33	0.59	0.27	0.28						
8			0.43	0.39	0.36	0.34	0.40				
9				0.43	0.40	0.37	0.36	0.48			
10				0.47	0.44	0.41	0.38	0.42	0.56		
11				0.54	0.46	0.41	0.41	0.50	0.65		
12				0.58	0.50	0.45	0.45	0.46	0.46	0.75	

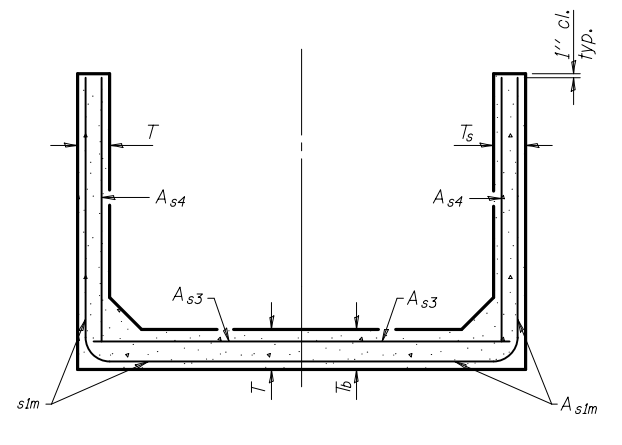
(A_{slm} reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).

Notes:
 Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.
 The size and spacing of the v₃(E) bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(A_{slm}). v₃(E) bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.
 Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

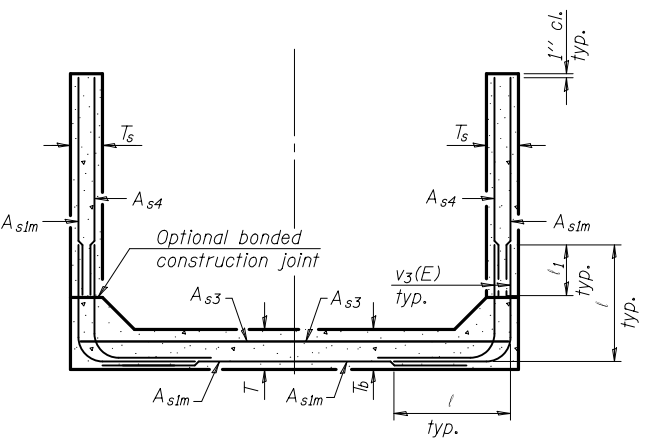
l₁ DIMENSION
 #3 bar = 2'-0"
 #4 bar = 2'-8"
 #5 bar = 3'-4"
 #6 bar = 3'-11"



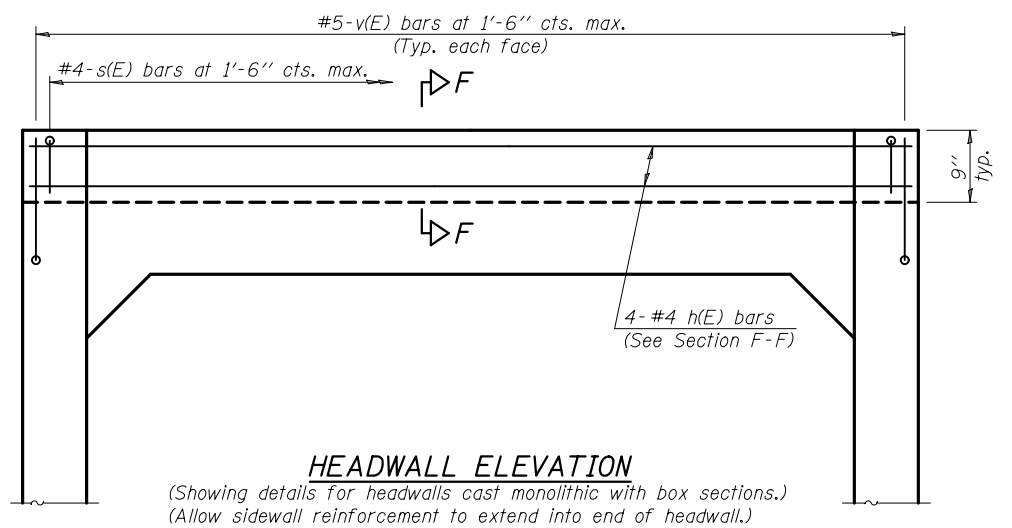
SECTION C-C



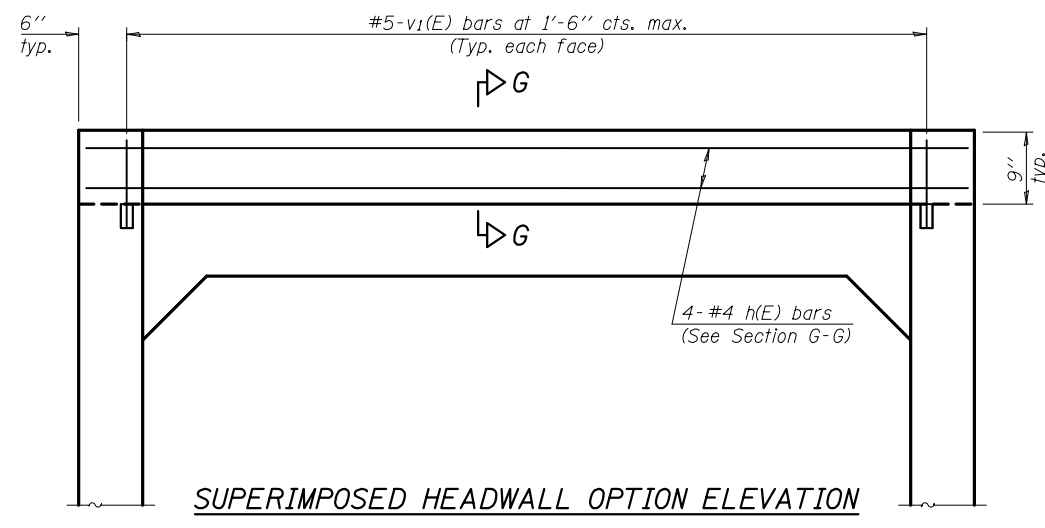
SECTION D-D



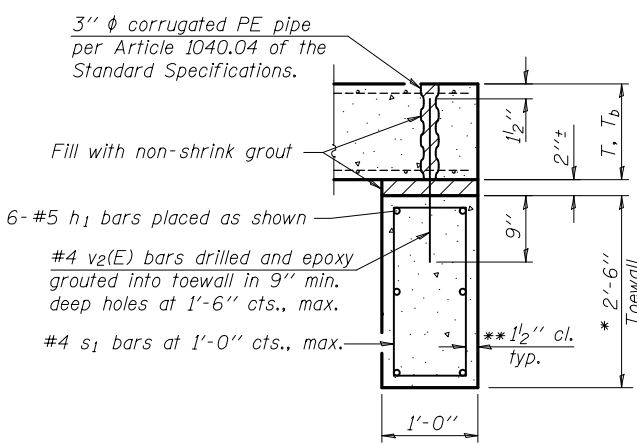
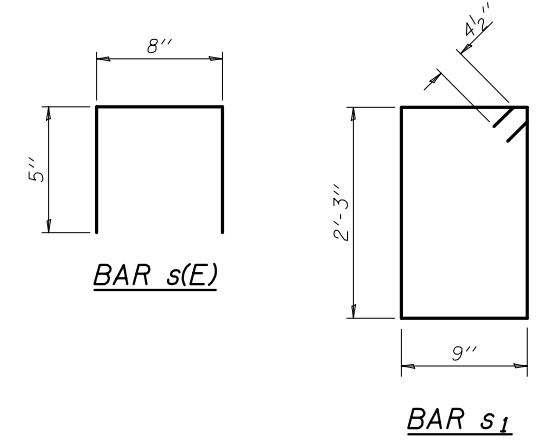
ALTERNATE SECTION D-D



HEADWALL ELEVATION

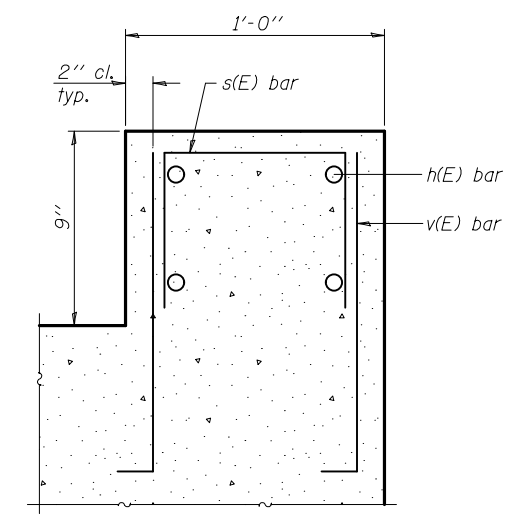


SUPERIMPOSED HEADWALL OPTION ELEVATION

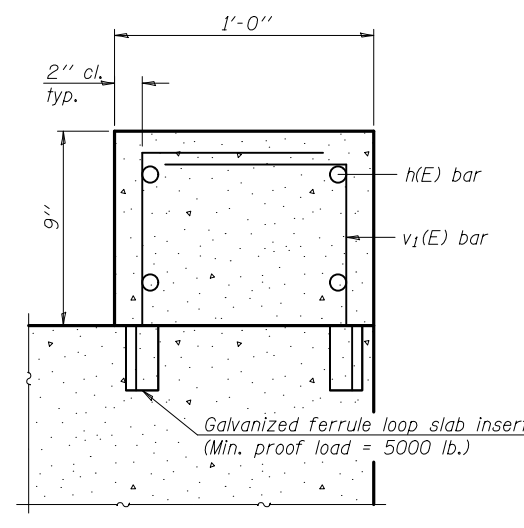


SECTION E-E

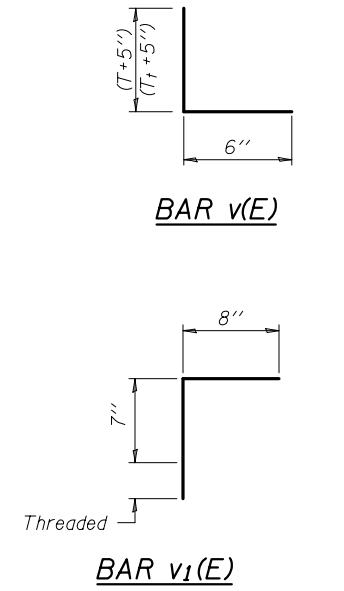
TOEWALL CONSTRUCTION SEQUENCE
 Perform excavation and construct toewall.
 1. Backfill accordingly and place bedding for precast box culvert end sections.
 2. Set precast box culvert end sections in place.
 3. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
 4. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
 5. The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.
 ** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION F-F



SECTION G-G



BAR v_1(E)

GENERAL NOTES

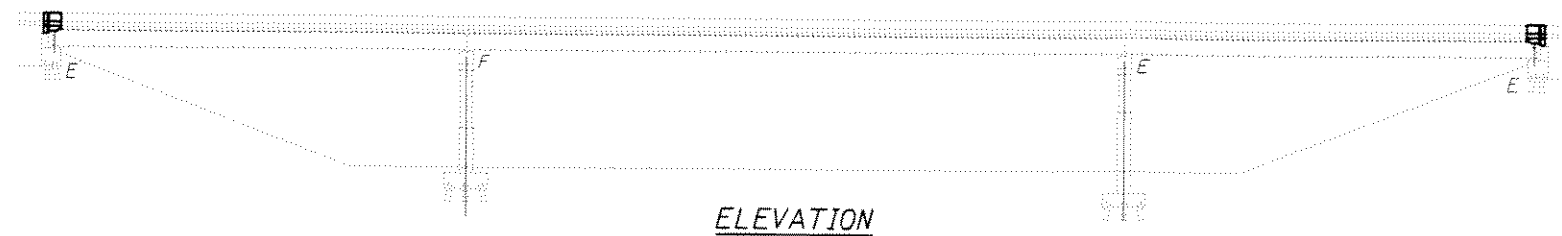
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

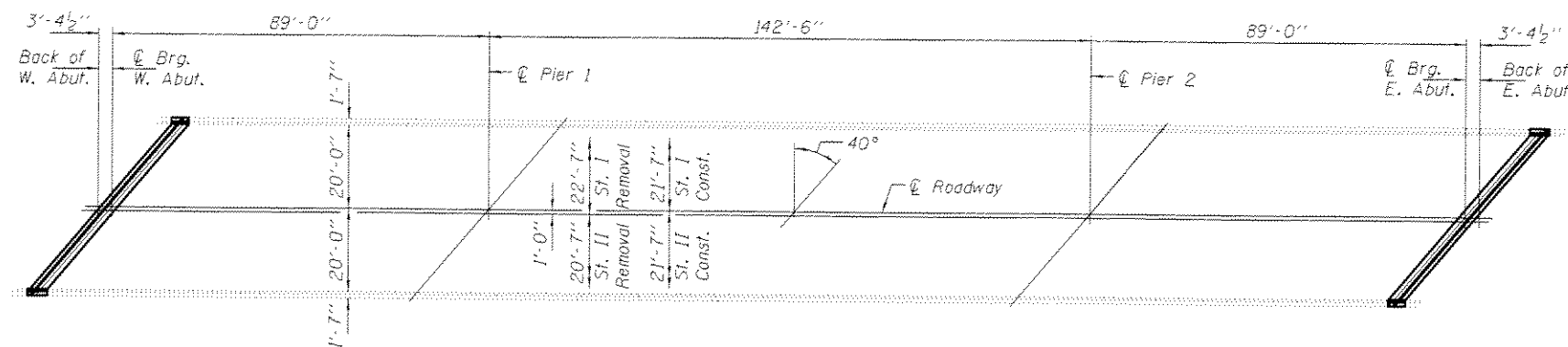
Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

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

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.



ELEVATION



PLAN



PRE-FINAL
DATE: 9/30/2013

EXPIRES 11-30-2014

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	17.3
Concrete Superstructure	Cu. Yd.	17.5
Preformed Joint Strip Seal	Foot	109
Reinforcement Bars, Epoxy Coated	Pound	2210
Bar Splicers	Each	28
Protective Coat	Sq. Yd.	55

* On new concrete only

DESIGNED	EXAMINED	DATE
CHECKED	ACTING ENGINEER OF STRUCTURAL SERVICES	SEPTEMBER 30, 2013
DRAWN <i>baliva</i>	PASSED	REVISED
CHECKED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
FAP 327 (US50) OVER IC RR
SN 061-0082

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	-	MARTON	-	-
SHEET NO. 1 OF 6 SHEETS			CONTRACT NO.	

ILLINOIS FED. AID PROJECT

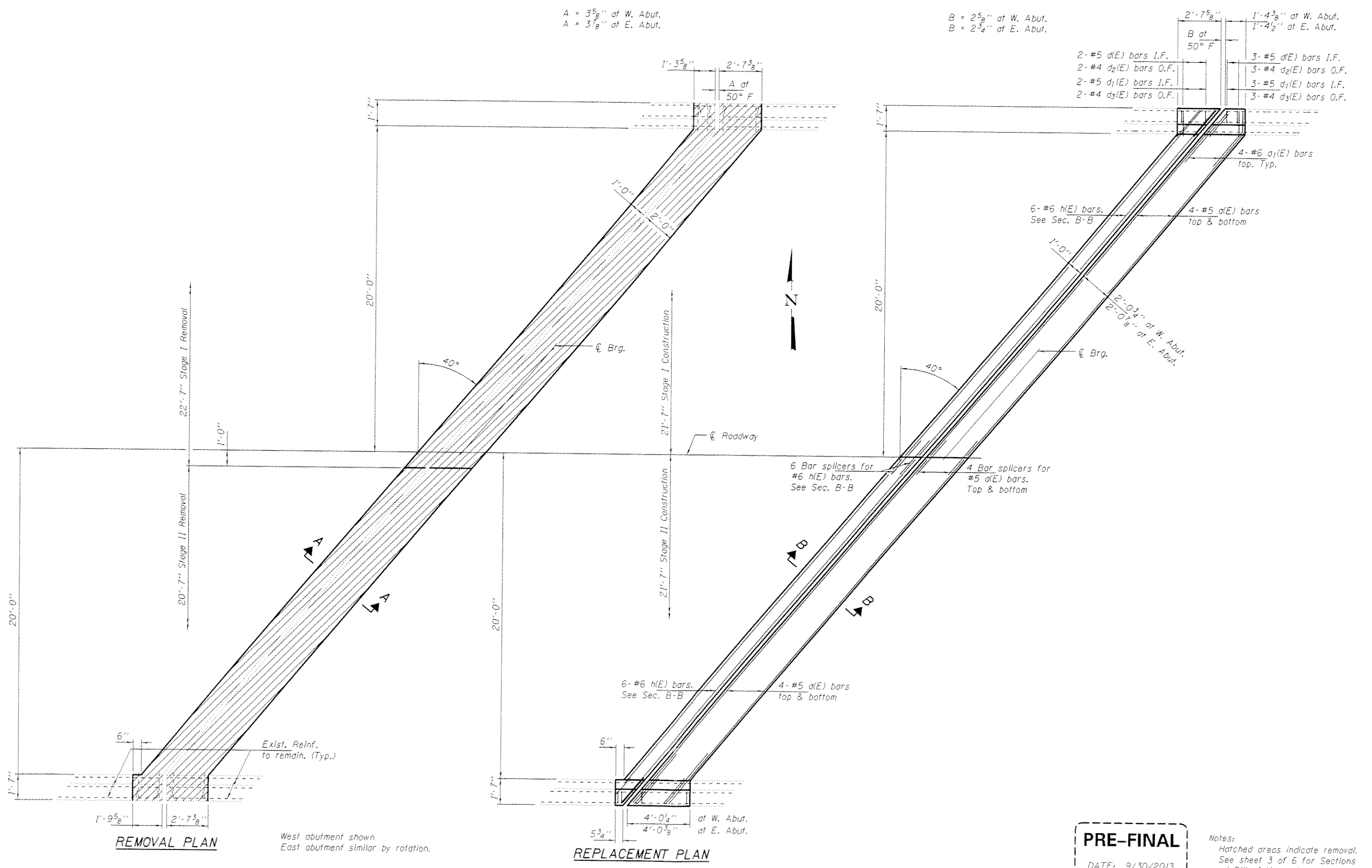
A = 3⁵/₈" at W. Abut.
A = 3⁷/₈" at E. Abut.

B = 2⁵/₈" at W. Abut.
B = 2³/₄" at E. Abut.

2'-7⁵/₈"
B at 50° F
1'-4³/₈" at W. Abut.
1'-4¹/₂" at E. Abut.

2-#5 d(E) bars I.F.
2-#4 d₂(E) bars O.F.
2-#5 d₁(E) bars I.F.
2-#4 d₃(E) bars O.F.

3-#5 d(E) bars I.F.
3-#4 d₂(E) bars O.F.
3-#5 d₁(E) bars I.F.
3-#4 d₃(E) bars O.F.



REMOVAL PLAN

West abutment shown
East abutment similar by rotation.

REPLACEMENT PLAN

PRE-FINAL
DATE: 9/30/2013

Notes:
Hatched areas indicate removal.
See sheet 3 of 6 for Sections
and Bill of Material.

DESIGNED <i>DAB</i>	EXAMINED <i>Timothy A. Anicki</i>	DATE <i>SEPTEMBER 30, 2013</i>
CHECKED <i>SMR</i>	PASSED <i>ACTING ENGINEER OF STRUCTURAL SERVICES</i>	REVISED
DRAWN <i>Daliva</i>	PASSED <i>ACTING ENGINEER OF BRIDGES AND STRUCTURES</i>	REVISED
CHECKED <i>DAB SMR</i>		

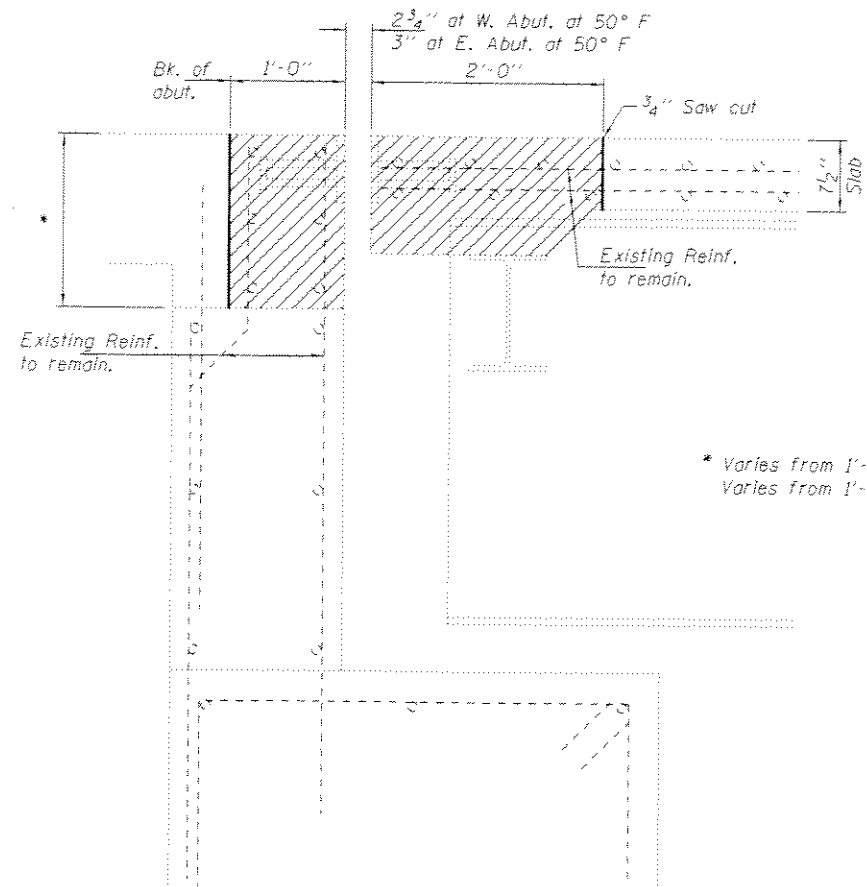
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 061-0082

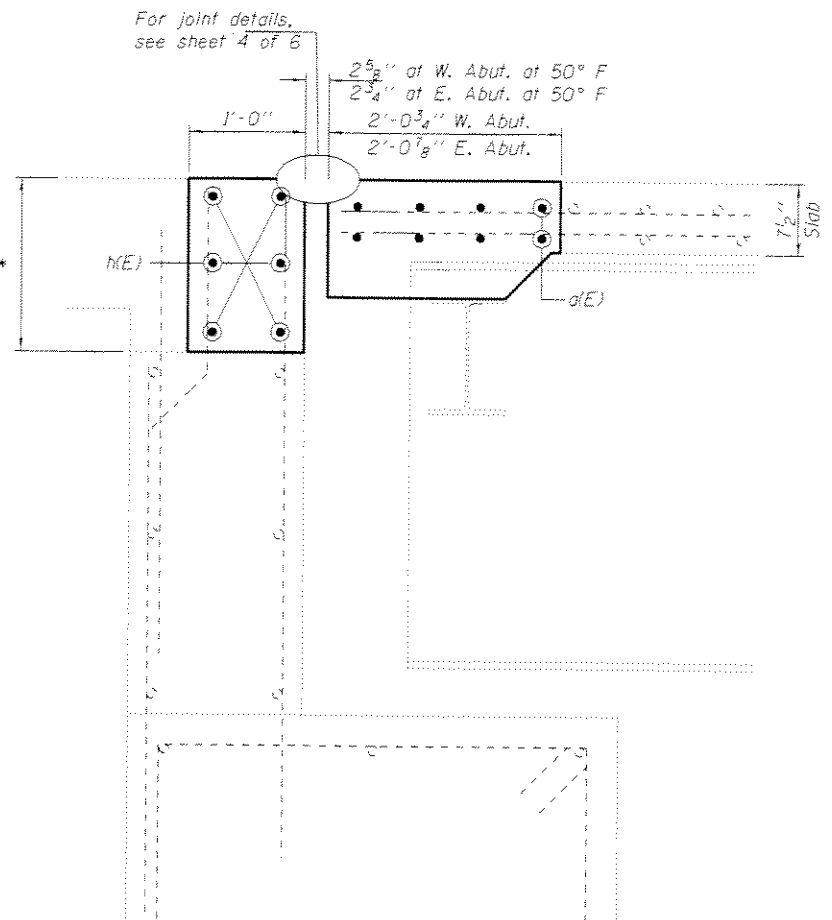
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
321		MARION		
				CONTRACT NO.

SHEET NO. 2 OF 6 SHEETS

ILLINOIS FED. AID PROJECT



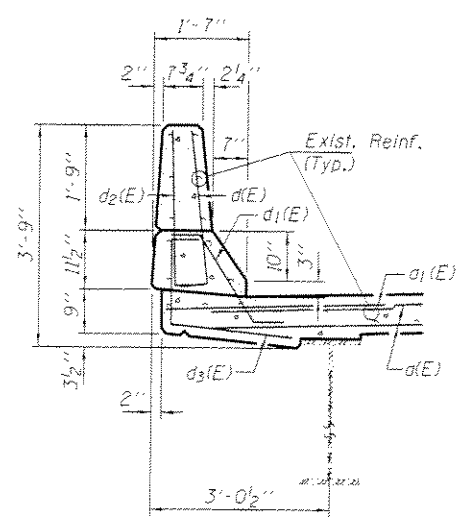
SECTION A-A
(Near \odot Roadway)
(Dimensions are at RT L's to end of deck)



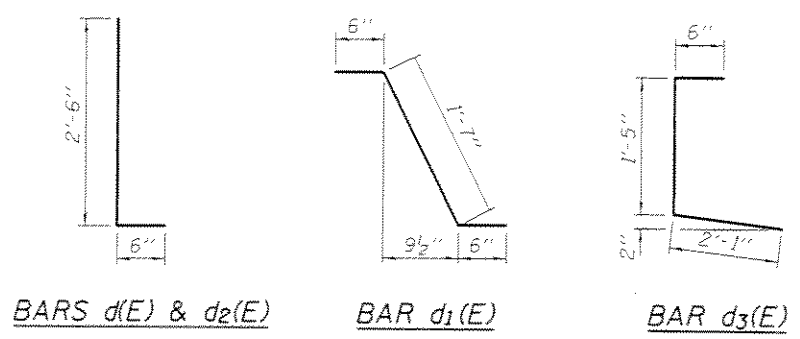
SECTION B-B
(Near \odot Roadway)
(Dimensions are at RT L's to end of deck)

* Varies from 1'-4" to 2'-5 5/8" at W. Abut.
Varies from 1'-4" to 2'-4 1/2" at E. Abut.

Note:
Hatched areas indicate removal.



TYPICAL PARAPET SECTION



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	32	#5	26'-9"	—
a1(E)	16	#6	4'-0"	—
d1(E)	20	#5	3'-0"	L
d3(E)	21	#5	2'-7"	L
d2(E)	20	#4	3'-0"	L
d3(E)	21	#4	4'-0"	L
h(E)	24	#6	27'-10"	—
Concrete Removal			Cu. Yd.	17.3
Concrete Superstructure			Cu. Yd.	17.5
Reinforcement Bars, Epoxy Coated			Lbs.	2210

PRE-FINAL
DATE: 9/30/2013

DESIGNED: DAB	EXAMINED: Timothy A. Anichini	DATE: SEPTEMBER 30, 2013
CHECKED: SMR	PASSED: ACTING ENGINEER OF STRUCTURAL SERVICES	REVISED:
DRAWN: dalvo	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED:
CHECKED: DAB SMR		

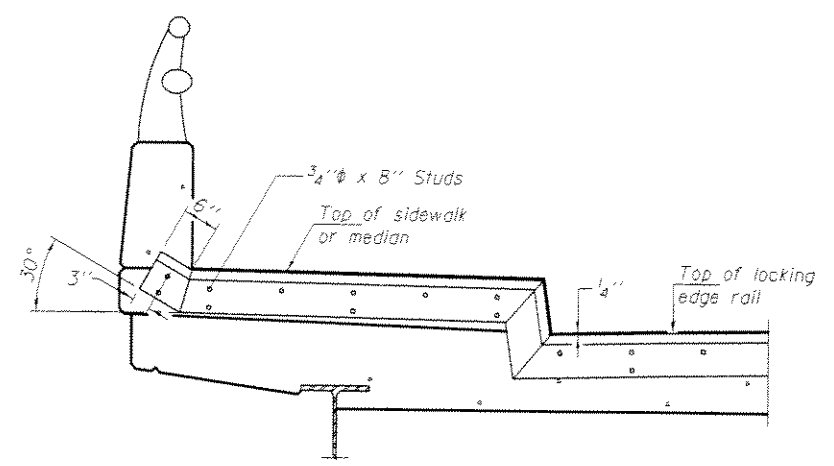
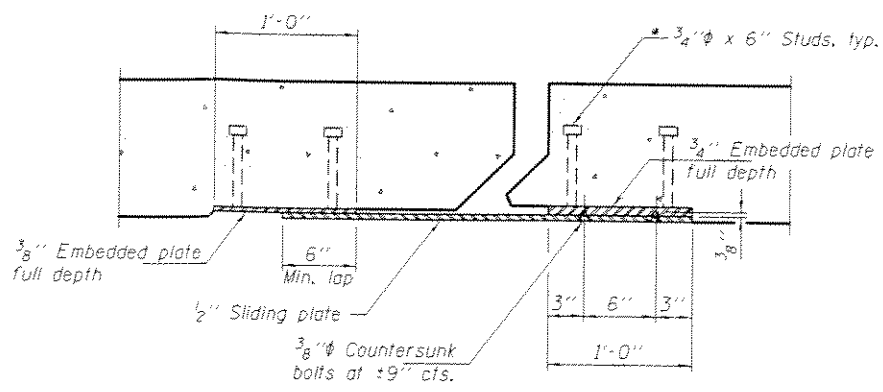
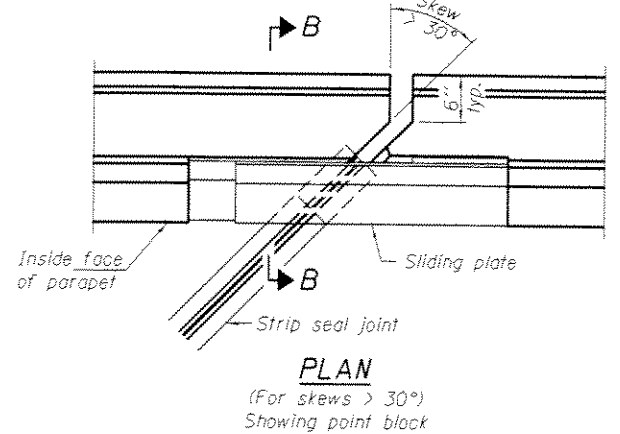
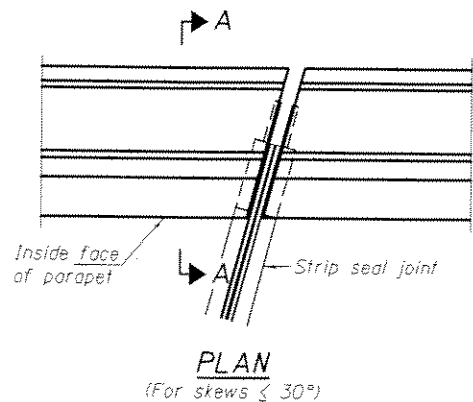
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 061-0082

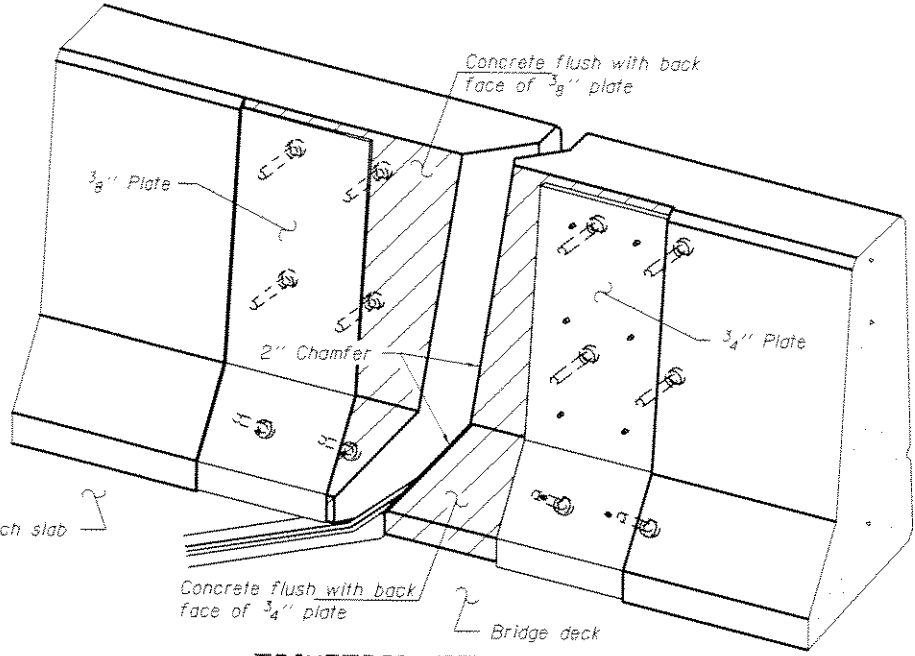
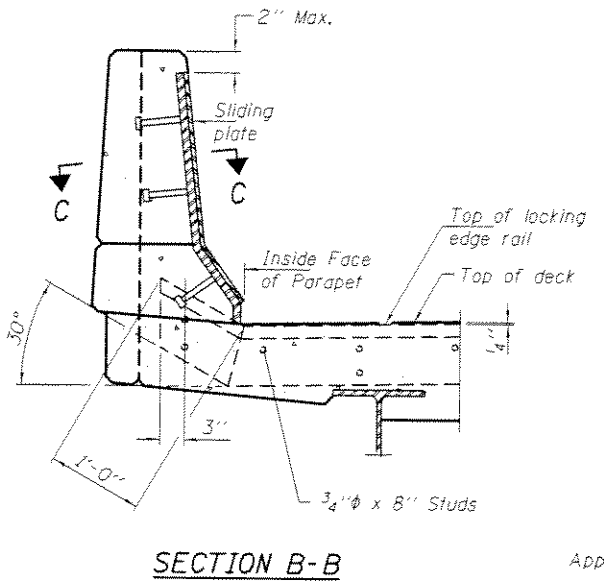
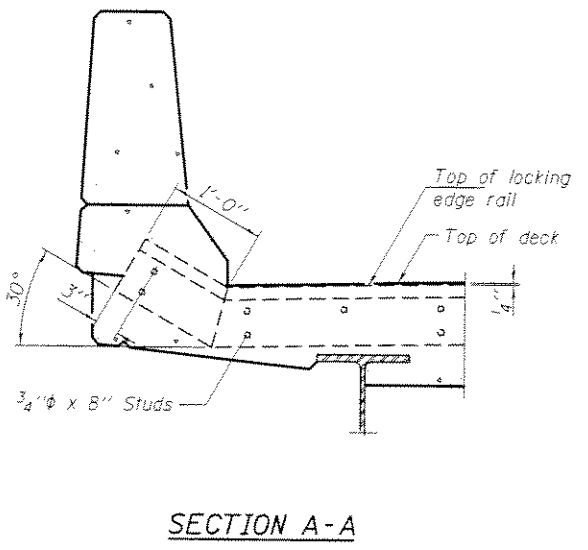
F.A.P. RTE. 327	SECTION	COUNTY MARION	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

SHEET NO. 3 OF 6 SHEETS

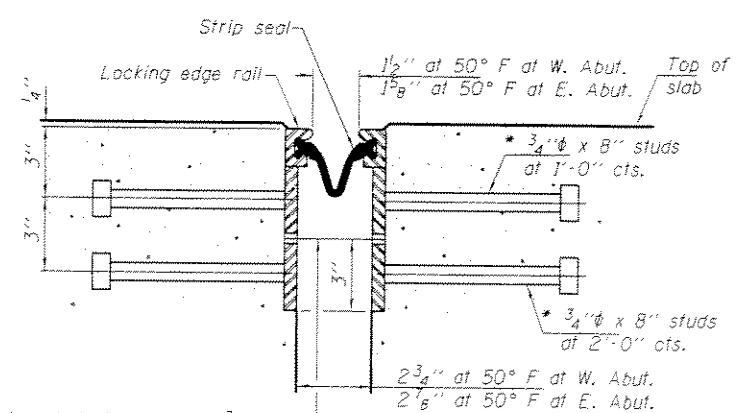
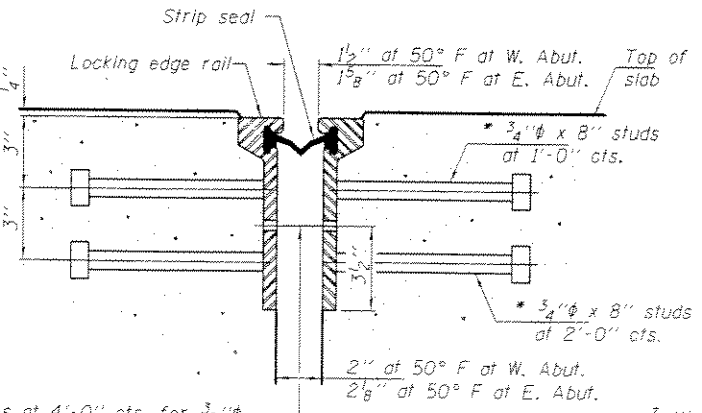
ILLINOIS FED. AID PROJECT



TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
 Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

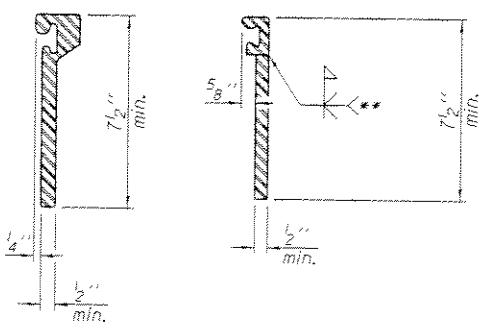


Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
 The manufacturer's recommended installation methods shall be followed.
 The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.
 Parapet plates and anchor studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



7/16" holes at 4'-0" cts. for 3/8" bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

7/16" holes at 4'-0" cts. for 3/8" bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



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

SECTION THRU ROLLED RAIL JOINT

SECTION THRU WELDED RAIL JOINT

ROULDED EXTRUDED RAIL WELDED RAIL

LOCKING EDGE RAIL SPLICE

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

PRE-FINAL
 DATE: 9/30/2013

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	109

EJ-SSJ 1-27-12

DESIGNED DAB	EXAMINED	DATE SEPTEMBER 30, 2013
CHECKED SMR	PASSED	
DRAWN balva		
CHECKED DAB SMR		

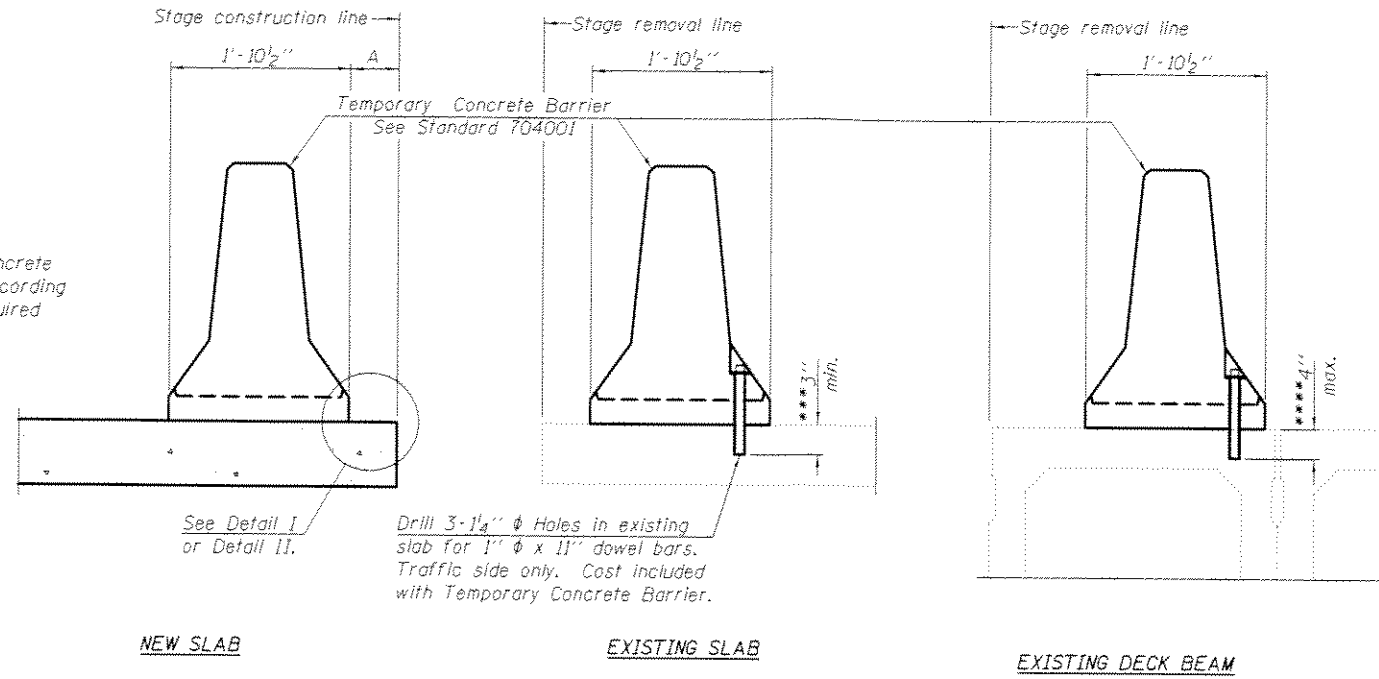
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 STRUCTURE NO.

F.A.P. RTE. 321	SECTION	COUNTY MARION	TOTAL SHEETS	SHEET NO.
SHEET NO. 4 OF 6 SHEETS			CONTRACT NO.	

ILLINOIS FED. AID PROJECT

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

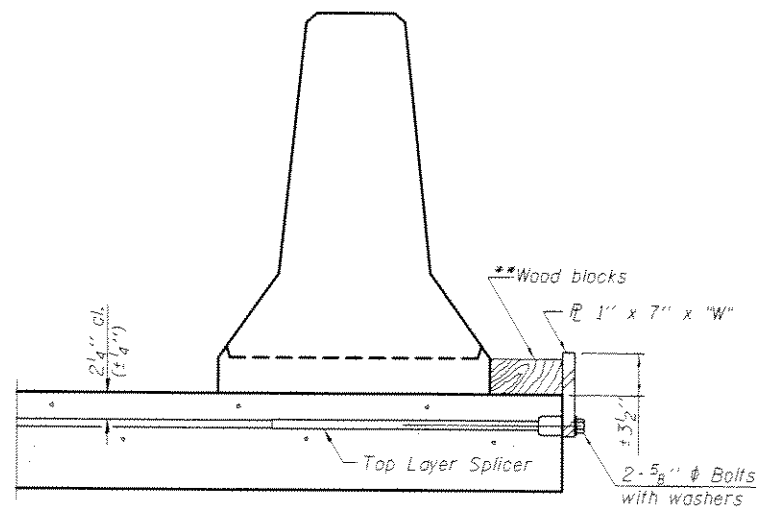
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{C} to the top layer of couplers with 2- $\frac{5}{8}$ " ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{C} to the concrete slab or concrete wearing surface with 2- $\frac{5}{8}$ " ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

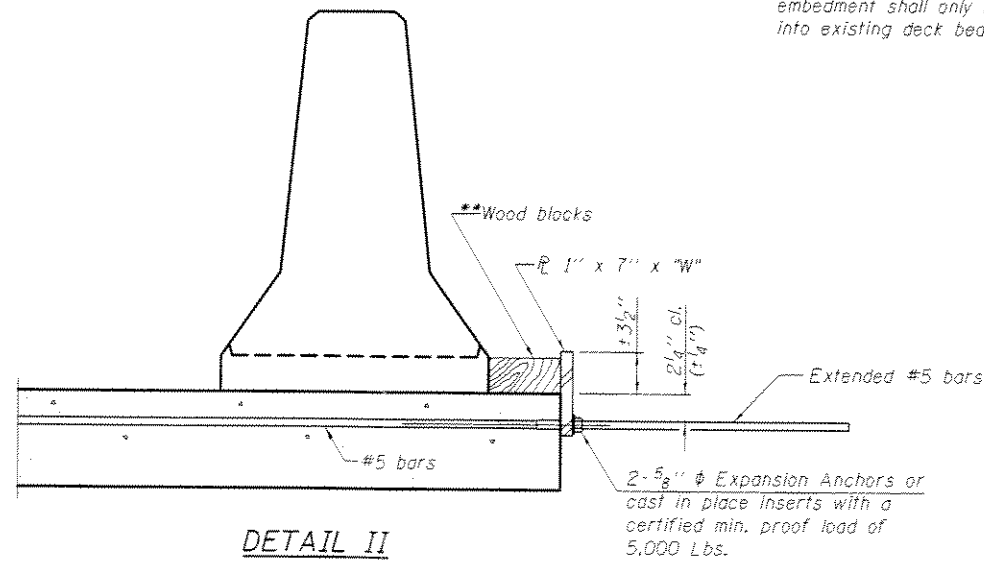
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

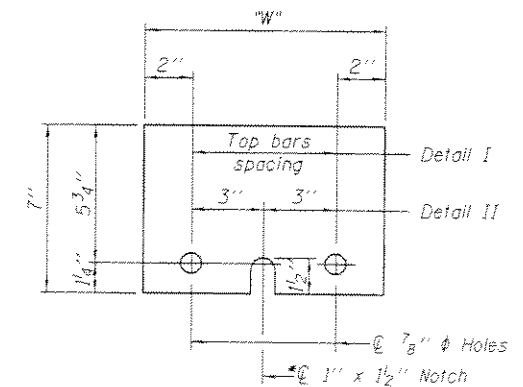
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{C} 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

PRE-FINAL
DATE: 9/30/2013

R-27 7-1-10

DESIGNED <i>DAB</i>	EXAMINED <i>Timothy A. Anelli</i>	DATE <i>SEPTEMBER 30, 2013</i>
CHECKED <i>SMR</i>	PASSED <i>ACTING ENGINEER OF STRUCTURAL SERVICES</i>	REVISED
DRAWN <i>baliva</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED <i>DAB SMR</i>		

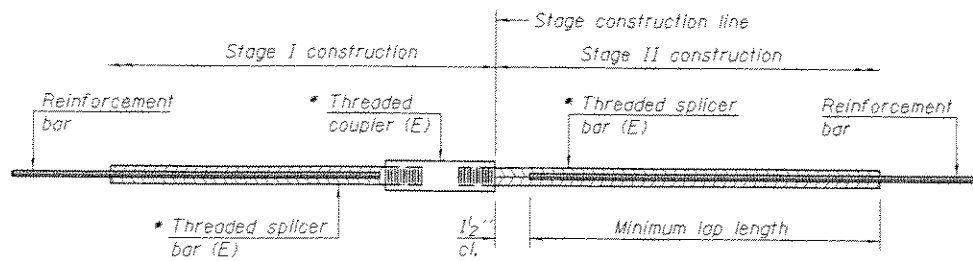
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER
SN 061-0082**

F.A.P. RTE. 327	SECTION	COUNTY MARION	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

SHEET NO. 5 OF 6 SHEETS

ILLINOISIFIED AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

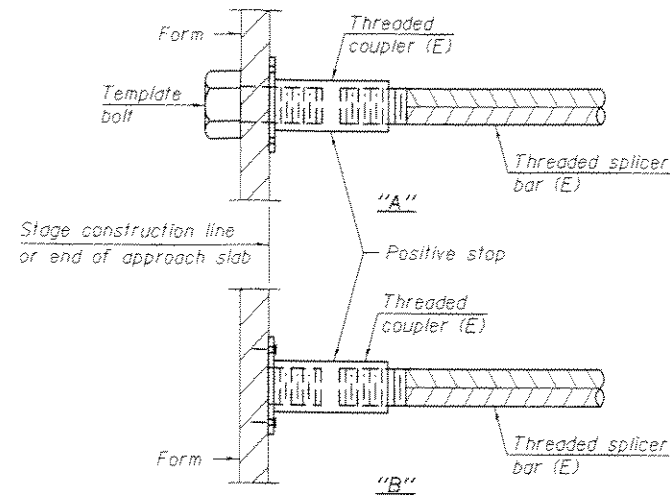
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

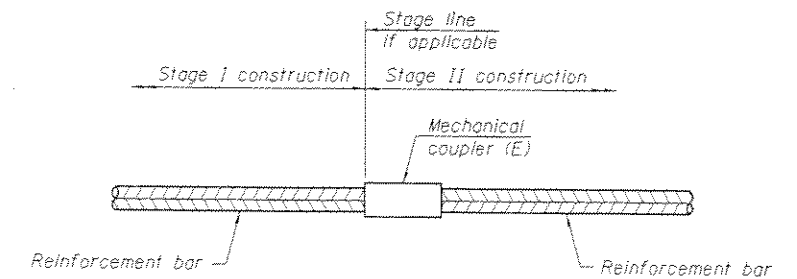
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
W. Abut. Hatch block	#6	6	3
W. End of deck	#5	8	3
E. Abut. Hatch block	#6	6	3
E. End of deck	#5	8	3



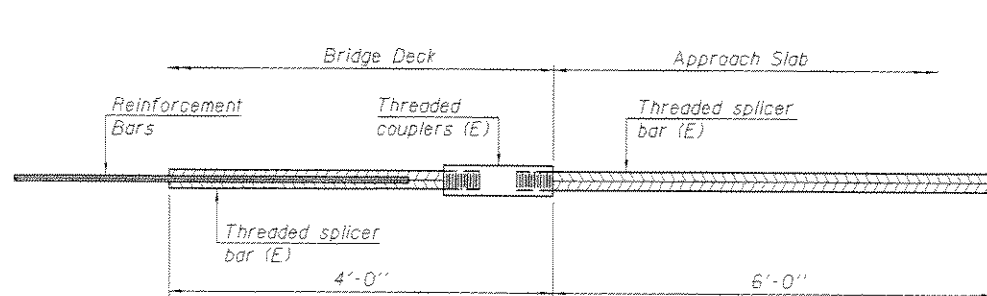
INSTALLATION AND SETTING METHODS

- "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

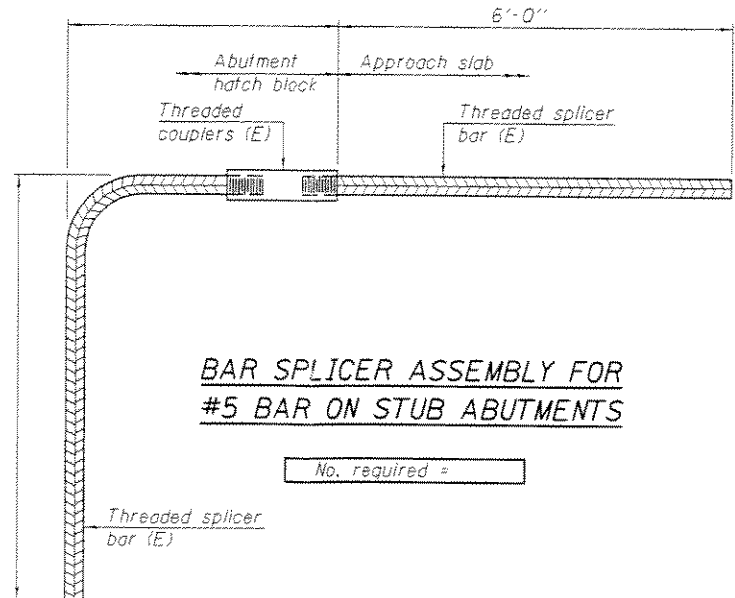
Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

PRE-FINAL
DATE: 9/30/2013

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

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.

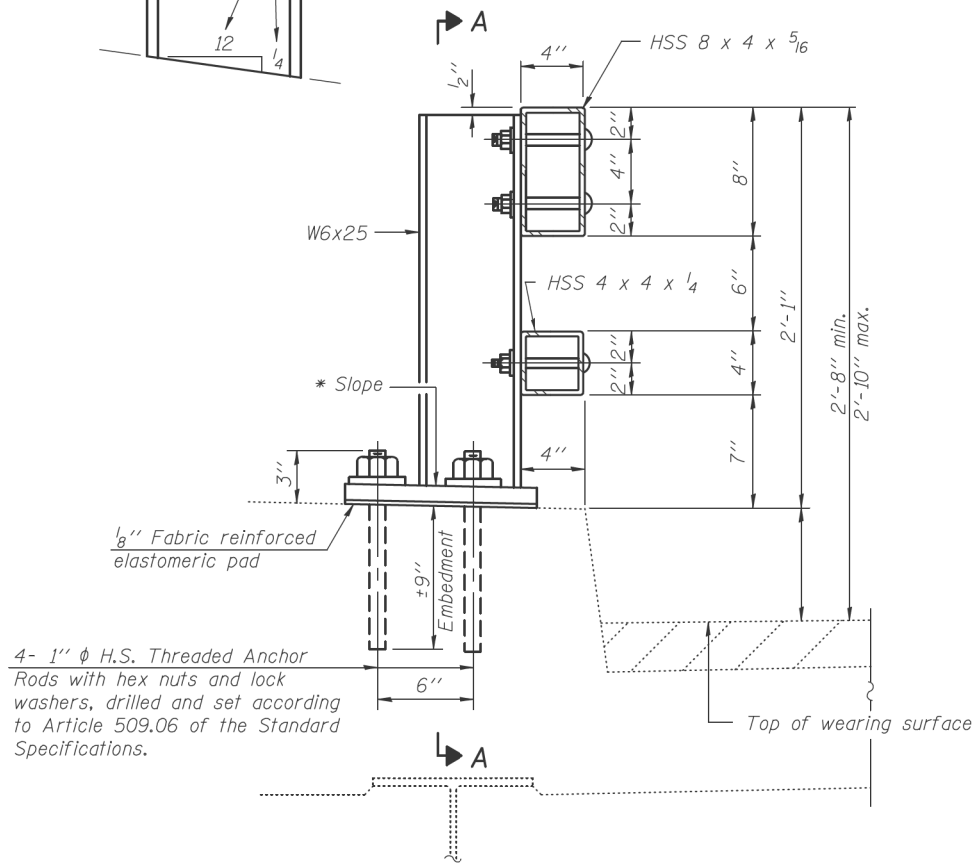
DESIGNED DAB	EXAMINED	DATE SEPTEMBER 30, 2013
CHECKED SMR	PASSED	
DRAWN baliva		
CHECKED DAB SMR		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

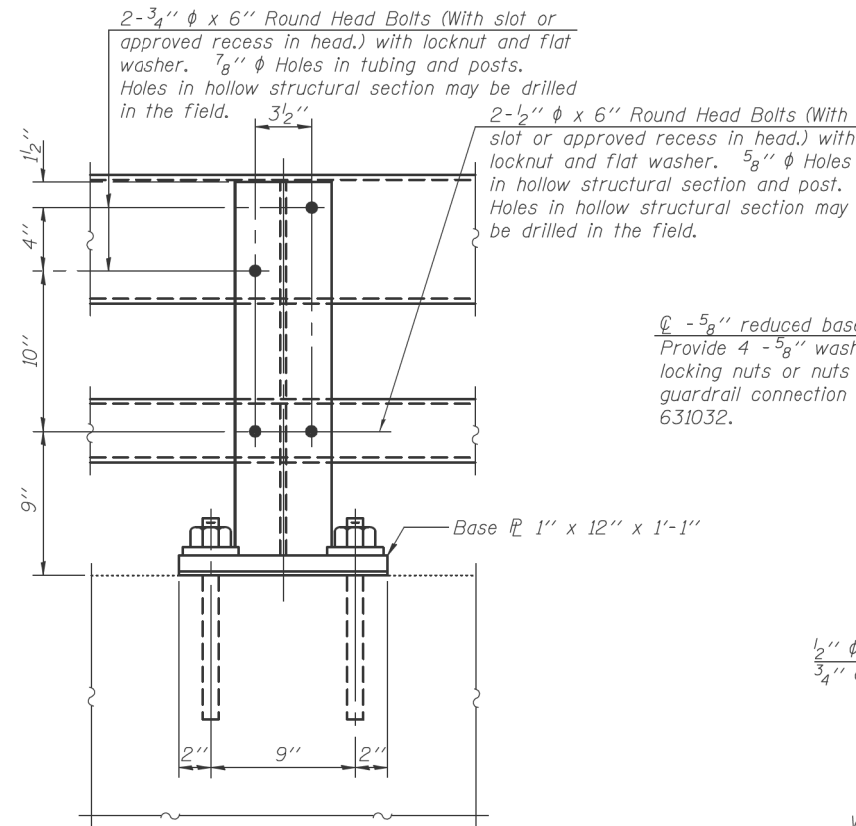
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 061-0082

F.A.P. RTE. 327	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MARION		
CONTRACT NO.				

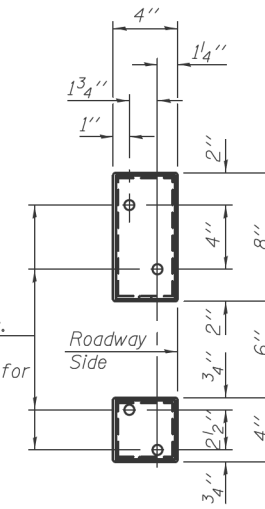
* Cut bottom end of post to curb slope.



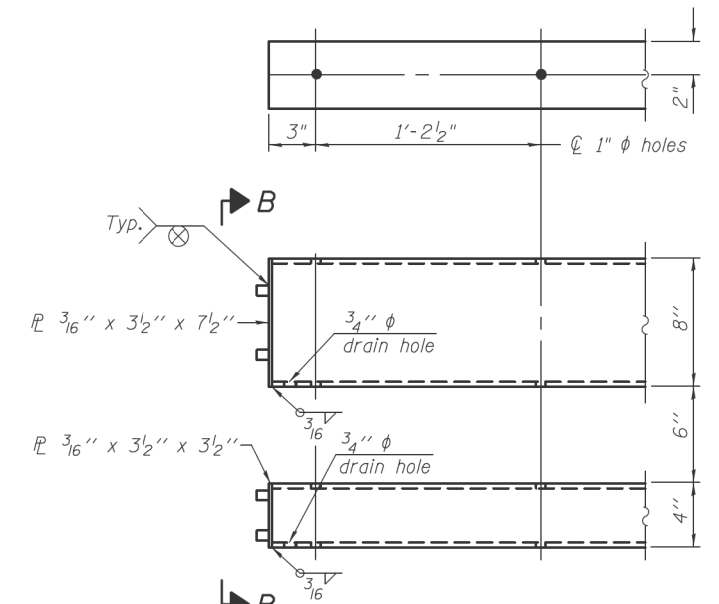
SECTION AT RAIL POST



SECTION A-A

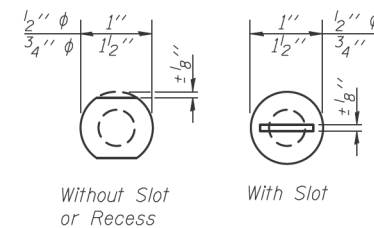


VIEW B-B

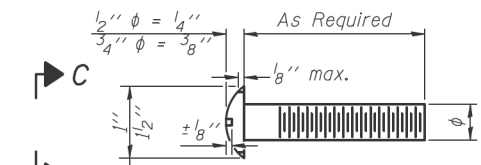


END OF RAIL DETAILS

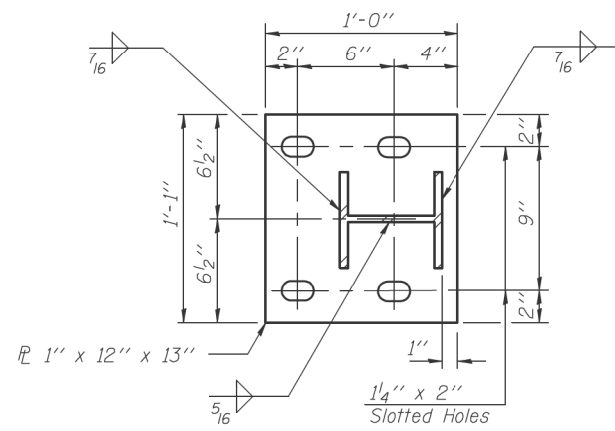
4 - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



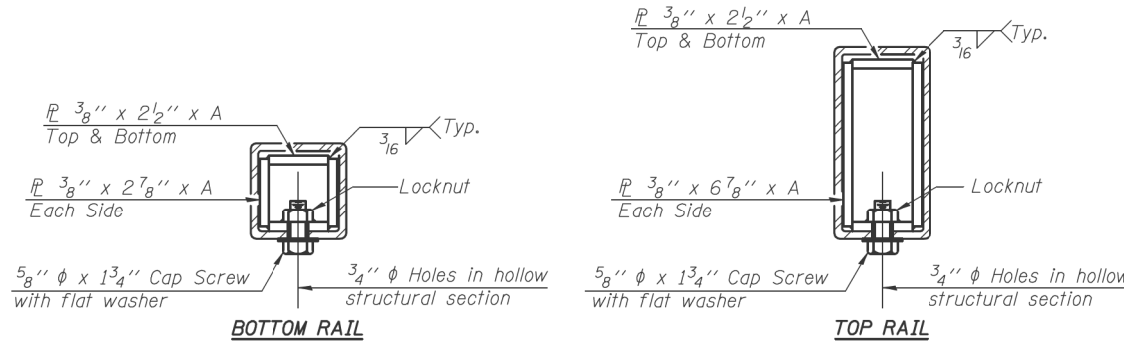
VIEW C-C



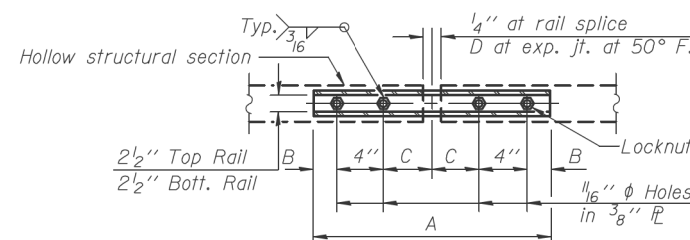
DETAIL OF 1/2" ϕ & 3/4" ϕ ROUND HEAD BOLTS



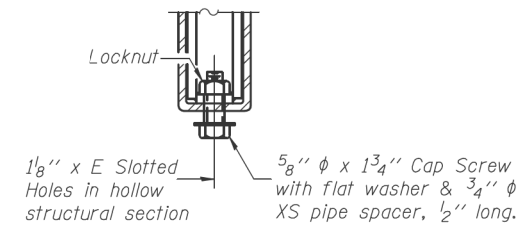
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:

All field drilled holes shall be coated with an approved zinc rich paint before erection.
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow ralling movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	125

R-31

7-1-10

(6'-3" Maximum Post Spacing)

FILE NAME =	USER NAME = millerra	DESIGNED -	REVISED -
et:\pw\work\p\dtd\millerra\20282308\ad876f28-sht-plan.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STEEL RAILING, TYPE 2399

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 327	SECTION (16,17,18)RS-3	COUNTY MARION	TOTAL SHEETS 83	SHEET NO. 83
CONTRACT NO. 76F28				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				