

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

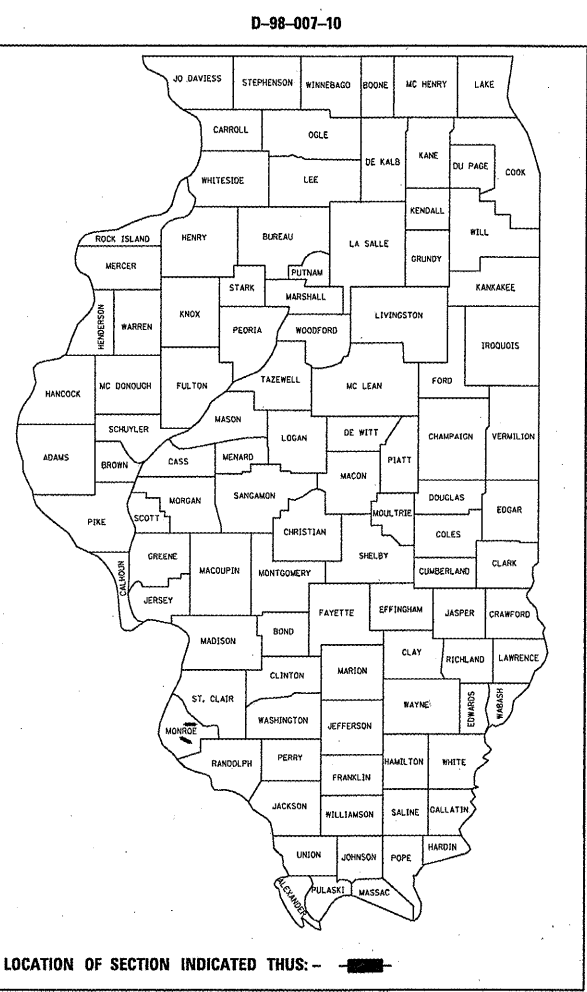
PROPOSED
HIGHWAY PLANS

VARIOUS ROUTES
SECTION DIST 8 SHOULDER 2010-1
PROJECT: HSIP-0005(806)
MONROE COUNTY
HMA SHOULDERS AND RUMBLE STRIPS
C-98-001-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• DIST 8 SHOULDER 2010-1		MONROE	6	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 76D38		
• 829 & 14	*6+1=7			

- INDEX OF SHEETS**
1. COVER SHEET
 2. GENERAL NOTES, SUMMARY OF QUANTITIES & SCHEDULES
 3. LOCATION MAPS
 - 4-5. TYPICAL ROADWAY SECTIONS
 6. DETAILS

- STANDARDS**
- 000001-05
 - 642001-01
 - 701006-03
 - 701011-02
 - 701301-03
 - 701306-02
 - 701311-03
 - 701901-01
 - 780001-02
 - 701326-03



ADT

IL. 156	IL. 3
2200 (2008)	8600 (2008)
2800 (2030)	10900 (2030)
SU = 6.8%	SU = 5.5%
MU = 4.5%	MU = 4.7%

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

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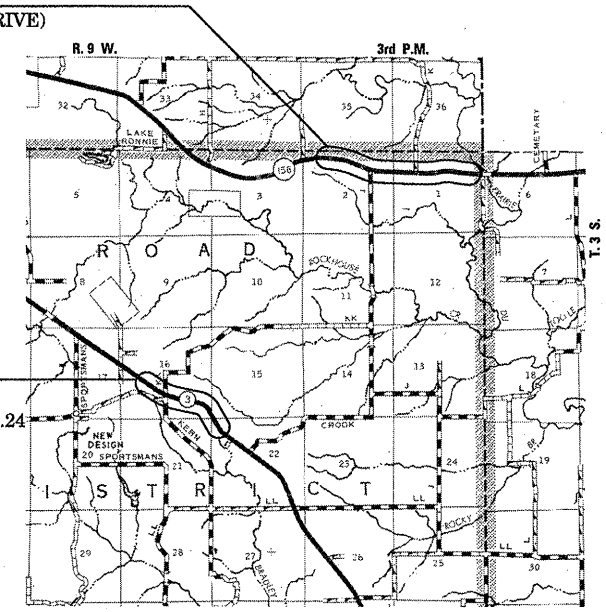
SUBMITTED Jan 22, 2010
May Jamiso
DEPUTY DIRECTOR OF HIGHWAYS, REGION FIVE ENGINEER

March 19, 2010
Scott E. Stoll, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS CHIEF ENGINEER

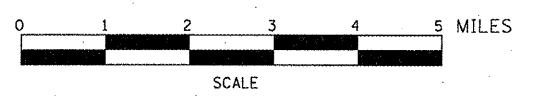
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OF THE STATE OF ILLINOIS

HOT MIX ASPHALT SHOULDERS & RUMBLE STRIPS
PROJECT BEGINS - STA. 266+20 (EDGEWATER DRIVE)
PROJECT ENDS - STA. 348+50

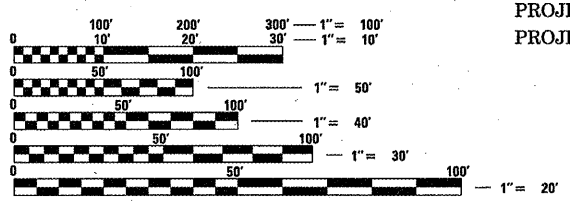


LOCATION MAP

NET LENGTH (IL. 156) - 8230.00 FT. = 1.559 MILES
NET LENGTH (IL. 3) - 3,299.50 FT. = 0.625 MILES
GROSS LENGTH - 11,529.50 FT. = 2.184 MILES



CENTERLINE RUMBLE STRIPS
PROJECT BEGINS - STA. 301+50.34
PROJECT OMISSION - STA. 309+79.45 TO STA. 326+69.24
PROJECT ENDS - STA. 351+39.63





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 - PATTI LEBEAU (618)-346-3179
PROJECT MANAGER - CHERYL KEPLAR (618)-346-3186

CONTRACT NO. 76D38

 Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907


Richard K. Allender III
Expiration Date: 11/30/2011

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 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:

- COMMUNICATIONS: AT&T CORPORATION
866 ROCK CREEK ROAD
PLANO, IL 60545-9571
- WATER: FOUNTAIN WATER DISTRICT
732 QUARRY ROAD
VALMEYER, IL 62295
- COMMUNICATIONS: HARRISONVILLE TELEPHONE CO.
213 S. MAIN STREET
PO BOX 149
WATERLOO, IL 62298-0149
- ELECTRIC: MONROE COUNTY ELECTRIC CO-OPERATIVE, INC.
6132 STATE ROUTE 3
PO BOX 128
WATERLOO, IL 62298
- COMMUNICATIONS: VERIZON NORTH, INC.
SOUTHERN DIVISION
111 E. STATE STREET
MASCOUTAH, IL 62258

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

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
4. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SHOULDERS	*SHOULDER-TOP LIFT
AC/PG	PG 58-22	PG 58-22
RAP % (MAX)	30%	30%
DESIGN AIR VOIDS	2.0% @ Ndes=30	2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)		
FRICITION AGG.	BAM	BAM

- DESIGN THIS MIX AT 2.0% AIR VOIDS AND ADD ASPHALT TO REDUCE AIR VOIDS TO 1.5%.
- 5. FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS INCLUDING LUNCH HOUR AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 6. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING OF THE PROJECT PLUS THE INTERSECTING SIDEROADS, AND WILL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE 48" X 48" FLUORESCENT ORANGE.
- 7. ALL TRAFFIC CONTROL DEVICES AS HEREIN SPECIFIED AND ANY ADDITIONAL TRAFFIC CONTROL DEVICES AND FLAGGERS AS DEEMED NECESSARY BY THE RESIDENT ENGINEER SHALL BE INCLUDED IN THE COST OF THE CONTRACT TRAFFIC CONTROL PAY ITEMS.
- 8. A QUANTITY FOR EARTH EXCAVATION IS PROVIDED FOR EARTHWORK REQUIRED FOR THE CONSTRUCTION OF HOT-MIX ASPHALT SHOULDERS. TRENCHES SHALL BE FILLED THE SAME DAY.
- 9. CARE SHALL BE TAKEN NOT TO DAMAGE THE EXISTING CULVERTS UNDER THE ROADWAY. ANY NECESSARY REPAIRS DUE TO DAMAGE INCURRED DURING THESE OPERATIONS AND ANY ADJUSTMENTS TO SHOULDER DEPTH AS DEEMED NECESSARY BY THE RESIDENT ENGINEER SHALL BE INCLUDED IN THE COSTS OF EARTH EXCAVATION AND HOT-MIX ASPHALT SHOULDERS, 8".
- 10. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
- 11. CARE SHALL BE TAKEN NOT TO DAMAGE THE EXISTING EDGELINE PAVEMENT MARKING ON IL 3. ANY DAMAGE TO PAVEMENT MARKING DUE TO THESE OPERATIONS SHALL BE REPAIRED AT CONTRACTOR EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- 12. ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.


IL 3

SCHEDULE				
LOCATION	LENGTH	THERMOPLASTIC PVMT MRK - LINE 4"		RUMBLE STRIPS
		SKIP DASH 10'/30' YELLOW	SOLID YELLOW	
	FOOT	FOOT	FOOT	FOOT
STA. 301+50.34 TO STA. 306+50 - NPZ SB	500	125	500	500
STA. 306+50 TO STA. 308+65 - NPZ NB&SB	215		430	215
STA. 308+65 TO STA. 309+79.45 - NPZ NB	115	29	115	115
STA. 309+79.45 TO STA. 326+69.24 - OMISSION	1690			
STA. 326+69.24 TO STA. 329+75 - NPZ SB	306	77	306	306
STA. 329+75 TO STA. 351+39.63 - NPZ NB&SB	2165		4330	2165
SUBTOTAL		231	5681	3301
TOTAL		5912		3301

IL 156

SCHEDULE						
LOCATION	LENGTH	EARTH EXCAVATION	HMA SHOULDERS, 8"	SHOULDER RUMBLE STRIP	AGGREGATE WEDGE SHOULDER, TYPE B	THERMOPLASTIC PVMT MRK - LINE 4"
						SOLID WHITE
	FOOT	CU YD	SO YD	FOOT	TON	FOOT
STA. 266+20 TO STA. 286+47 RT	2027	150	676	2027	51	2027
STA. 286+77 TO STA. 348+50 RT	6173	457	2058	6173	156	6173
STA. 266+20 TO STA. 312+98 LT	4678	346	1559	4678	118	4678
STA. 313+18 TO STA. 348+50 LT	3532	261	1177	3532	89	3532
TOTAL		1214	5470	16410	414	16410

• 829 & 14

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	 <p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	GENERAL NOTES & SCHEDULES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA. TO STA.			•	DIST 8 SHOULDER 2010-1	MONROE	6	2
		CHECKED -	REVISED -								CONTRACT NO. 76D38	
		DATE -	REVISED -								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

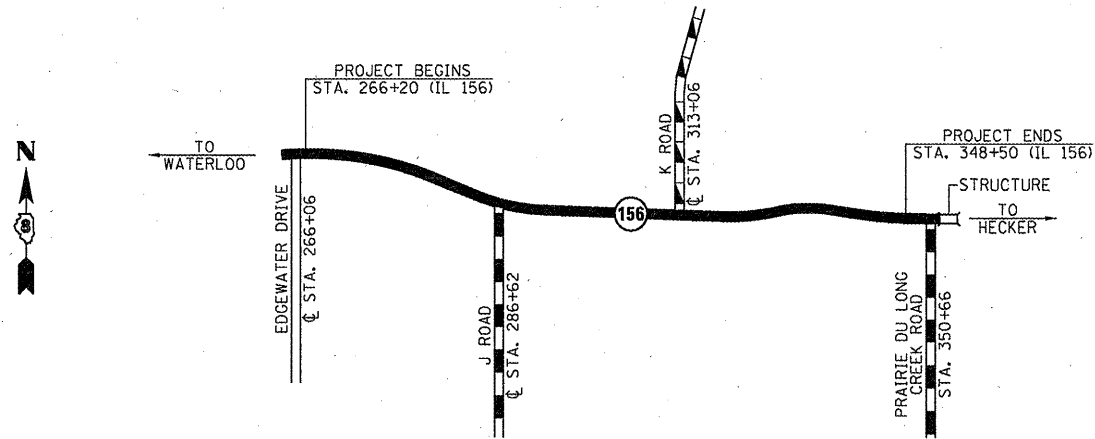
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		IL 3 SFTY-2A 90% FED 10% STATE	IL 156 SFTY-2A 90% FED 10% STATE	CODE NO	ITEM	UNIT				
20200100	EARTH EXCAVATION	CU YD	1214		1214							
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	414		414							
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	5470		5470							
64200105	SHOULDER RUMBLE STRIP	FOOT	16410		16410							
67100100	MOBILIZATION	L SUM	1	0.5	0.5							
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5							
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	7		7							
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	22322	5912	16410							
Z0055400	RUMBLE STRIP	FOOT	3301	3301								
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5							

** Specialty Items*

Rev.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -												
		DATE -	REVISED -												

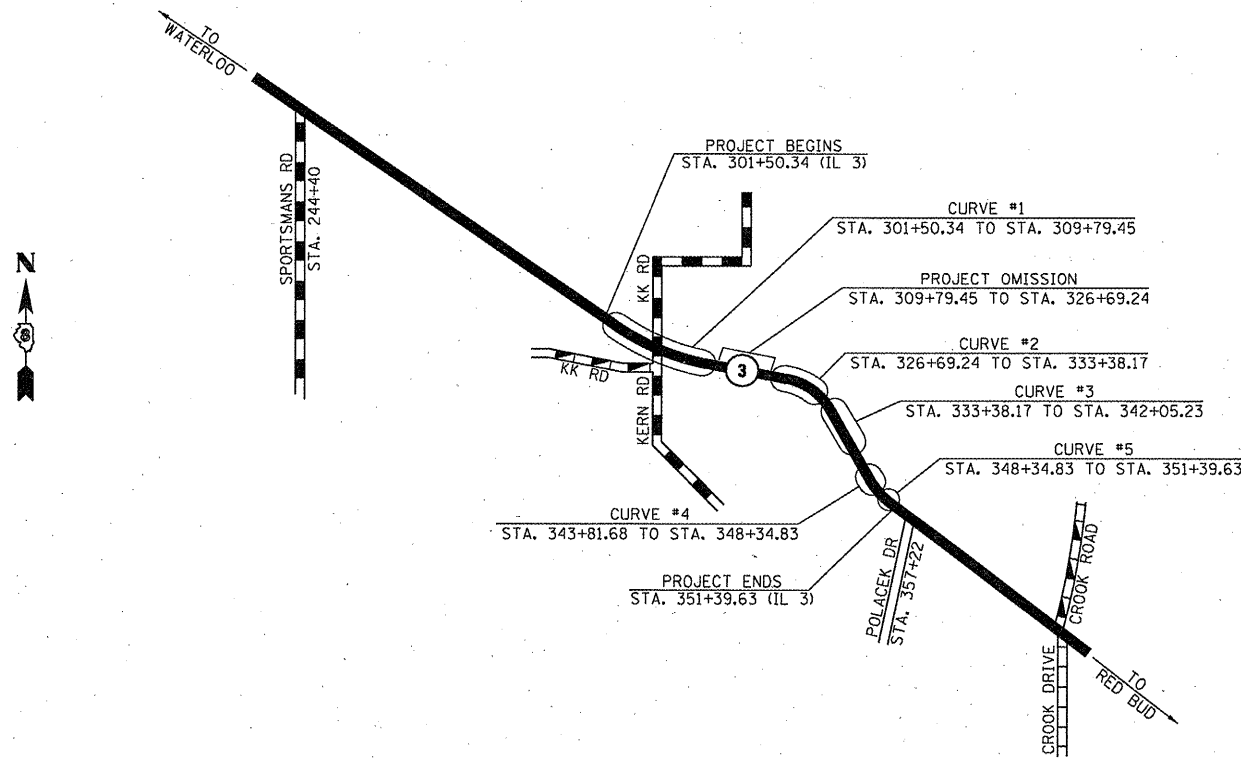
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	DIST 8 SHOULDER 2010-1	MONROE	6	2A
CONTRACT NO. 76D38				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTE: BOX CULVERTS ARE LOCATED UNDER THE ROADWAY AT:
 STA. 308+45
 STA. 330+05
 STA. 337+80

IL 156 LOCATION MAP
 (NOT TO SCALE)

- CURVE LOCATIONS
- #1 - STA. 266+30.3 TO STA. 276+02.3
 - #2 - STA. 283+70.6 TO STA. 294+05.6
 - #3 - STA. 313+57.8 TO STA. 324+41.1
 - #4 - STA. 328+85.3 TO STA. 339+06.9
 - #5 - STA. 339+19.7 TO STA. 349+32.9



IL 3 LOCATION MAP
 (NOT TO SCALE)

• 829 & 14

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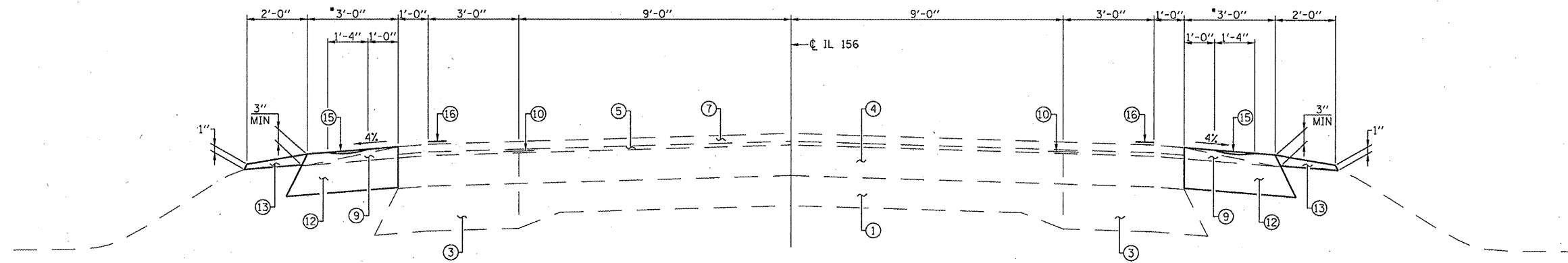


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 Civil and Structural Engineers Springfield, IL.
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 No. 184-001907

LOCATION MAPS

SCALE: NONE SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	DIST 8 SHOULDER 2010-1	MONROE	6	3
CONTRACT NO. 76D38				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



TYPICAL SECTION #1 (IL 156)
 STA. 266+20 TO STA. 348+50

NOTE:
 IT IS NOT THE INTENT OF THIS PROJECT TO REGRADE
 SIDE SLOPES OR DITCHES. THE WIDTH OF THE PROPOSED
 SHOULDER MAY BE REDUCED TO 2' AS DIRECTED BY THE
 ENGINEER, IN ORDER TO AVOID ANY DISTURBANCE TO
 SIDE SLOPES AND DITCHES.

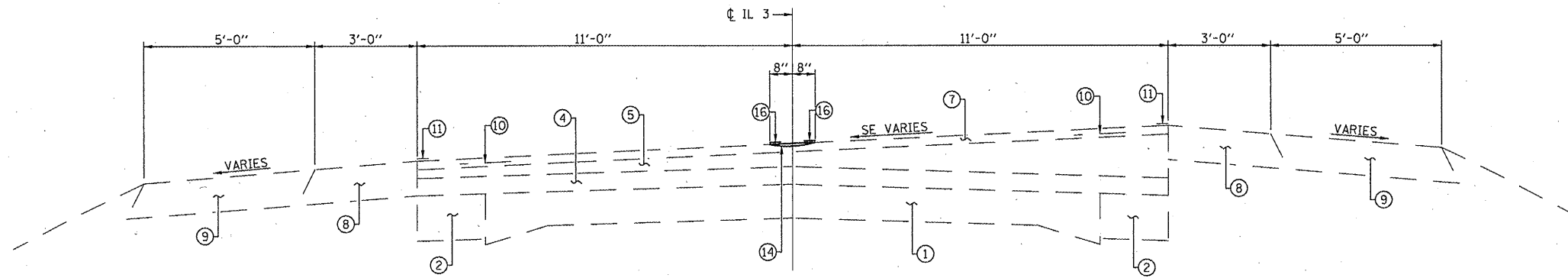
- ① EX PCC PVMT
- ② EX PCC WIDENING
- ③ EX HMA WIDENING
- ④ EX HMA RESURFACING
- ⑤ EX LEVELING BINDER, 3/4" MIN
- ⑥ EX HMA BINDER COURSE
- ⑦ EX HMA SURF CRSE, 1 1/2"
- ⑧ EX HMA SHLD, 6"
- ⑨ EX AGG SHLD, TY B
- ⑩ EX STRIP REFL CRACK CONTROL TREATMENT
- ⑪ EX PVMT MARKING - LINE 4"
- ⑫ PR HMA SHLD, 8"
- ⑬ PR AGG WEDGE SHLD, TY B
- ⑭ PR RUMBLE STRIP
- ⑮ PR SHLD RUMBLE STRIP
- ⑯ PR PAINT PVMT MARKING - LINE 4"

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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

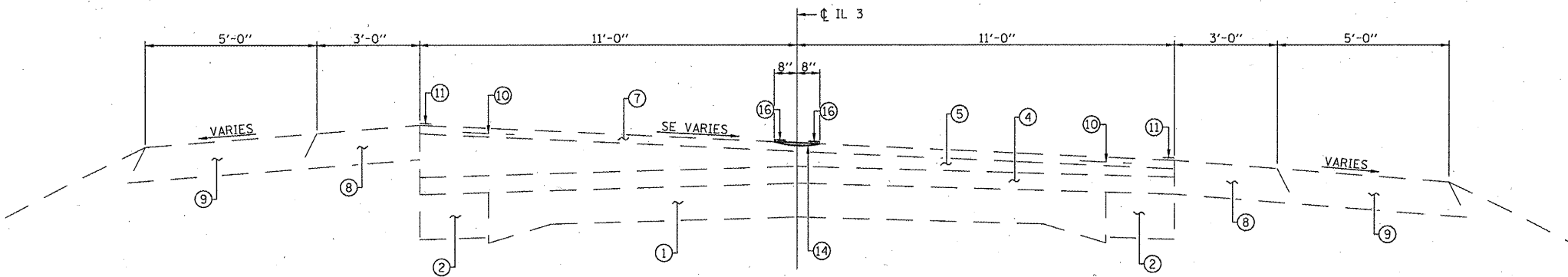
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 No. 184-001907

TYPICAL ROADWAY CROSS SECTIONS (IL RTE 156)		
SCALE: NONE	SHEET NO. 4 OF 6 SHEETS	STA. 266+20 TO STA. 348+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
829	DIST 8 SHOULDER 2010-1	MONROE	6	4
CONTRACT NO. 76D38				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TYPICAL SECTION #2 (IL 3)
 STA. 301+50.34 TO STA. 309+79.45
 STA. 309+79.45 TO STA. 326+69.24 OMISSION
 STA. 342+93.45 TO STA. 351+39.63



TYPICAL SECTION #3 (IL 3)
 STA. 326+69.24 TO STA. 342+93.45

- ① EX PCC PVMT
- ② EX PCC WIDENING
- ③ EX HMA WIDENING
- ④ EX HMA RESURFACING
- ⑤ EX LEVELING BINDER, 3/4" MIN
- ⑥ EX HMA BINDER COURSE
- ⑦ EX HMA SURF CRSE, 1 1/2"
- ⑧ EX HMA SHLD, 6"
- ⑨ EX AGG SHLD, TY B
- ⑩ EX STRIP REFL CRACK CONTROL TREATMENT
- ⑪ EX PVMT MARKING - LINE 4"
- ⑫ PR HMA SHLD, 8"
- ⑬ PR AGG WEDGE SHLD, TY B
- ⑭ PR RUMBLE STRIP
- ⑮ PR SHLD RUMBLE STRIP
- ⑯ PR PAINT PVMT MARKING - LINE 4"

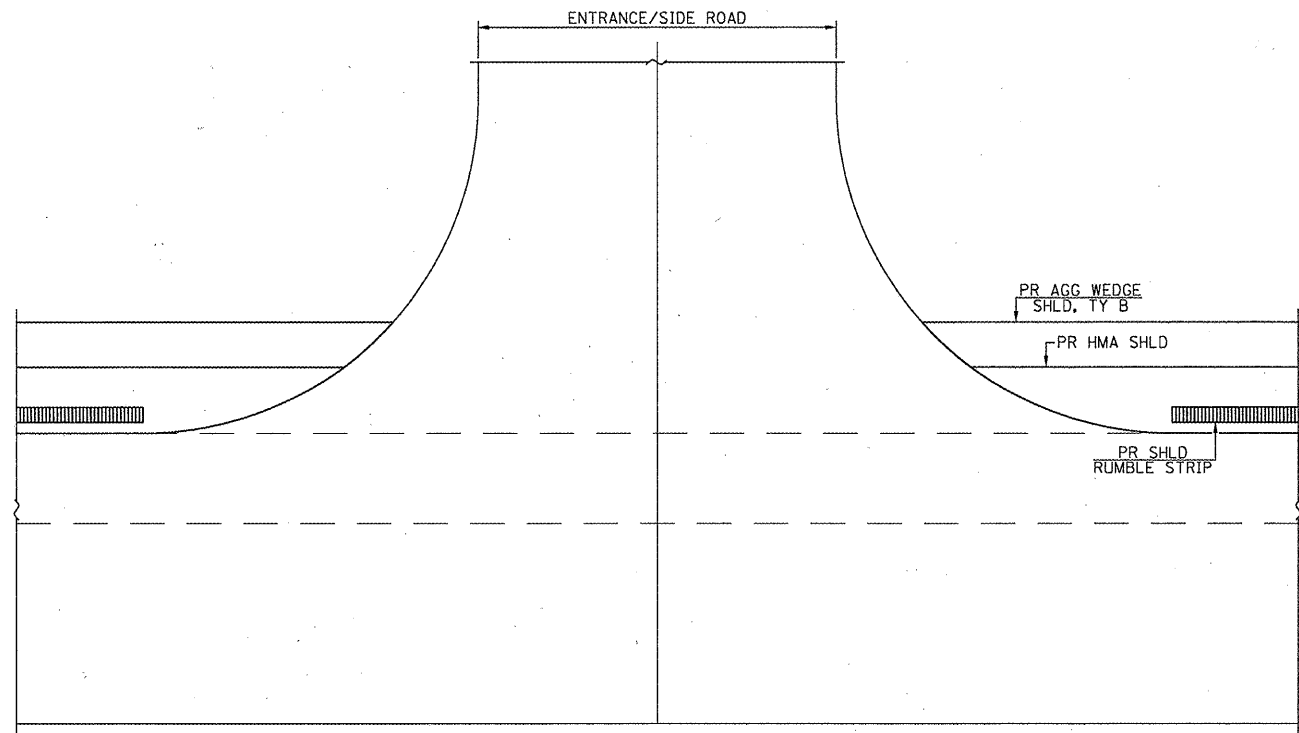
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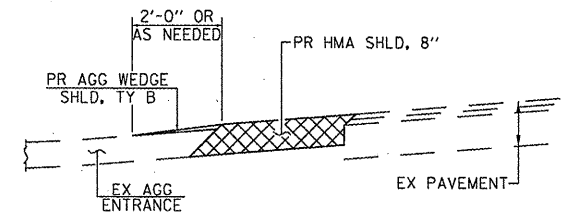
TYPICAL ROADWAY CROSS SECTIONS		(IL RTE 3)	
SCALE: NONE	SHEET NO. 5 OF 6 SHEETS	STA. 301+50.34 TO STA. 351+39.63	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	DIST 8 SHOULDER 2010-1	MONROE	6	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76D38	



DETAIL AT ENTRANCES & SIDEROADS (IL 156)

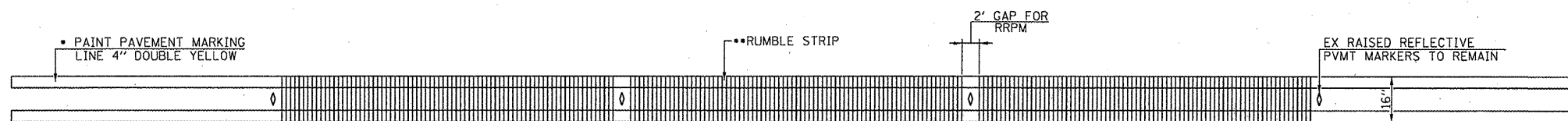
NOTE: HMA SHOULDERS SHALL BE GAPPED AT HMA & PCC ENTRANCES AND SIDEROADS AS DIRECTED BY THE ENGINEER.



SHOULDER DETAIL AT AGGREGATE ENTRANCES (IL 156)

NOTE: OMIT SHOULDER RUMBLE STRIP THROUGH WIDTH OF ENTRANCE.


⊗ - EARTH EXCAVATION



RUMBLE STRIP DETAIL (IL 3)

- PAINT ON TOP OF RUMBLE STRIP
- RUMBLE STRIP SHALL BE CONTINUOUS THROUGH SIDEROADS

• 829 & 14

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -		Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = #DATE#	CHECKED -	REVISED -			CONTRACT NO. 76038		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE: NONE SHEET NO. 6 OF 6 SHEETS STA. TO STA.