

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	D9 SAFETY SHLDRS 2019-1	FRANKLIN	6	1
		ILLINOIS	CONTRACT NO. 78659	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAP ROUTE 853 (IL 14)  
SECTION: D9 SAFETY SHLDRS 2019-1  
PROJECT HSIP-C22Y(500)  
SAFETY SHOULDERS  
FRANKLIN COUNTY

## TRAFFIC DATA

IL 14 TRAFFIC DATA  
FRANKLIN COUNTY  
2018  
ADT = 2100  
PV = 1874  
SU = 126  
MU = 100

## TOWNSHIPS

EWING  
NORTHERN

SN 028-0030 OMISSION  
529+06 TO 531+22 LT  
529+23 TO 531+28 RT

SN 028-0029 OMISSION  
447+63 TO 450+93 LT  
447+77 TO 451+03 RT

SN 028-0028 OMISSION  
439+97 TO 442+35 LT  
440+13 TO 442+50 RT

SN 028-0074 OMISSION  
365+28 TO 371+35 RT  
366+19 TO 371+71 LT

POSTED SPEED : 55 MPH

SN 028-0026 OMISSION  
282+15 TO 285+24 LT  
282+33 TO 285+34 RT

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

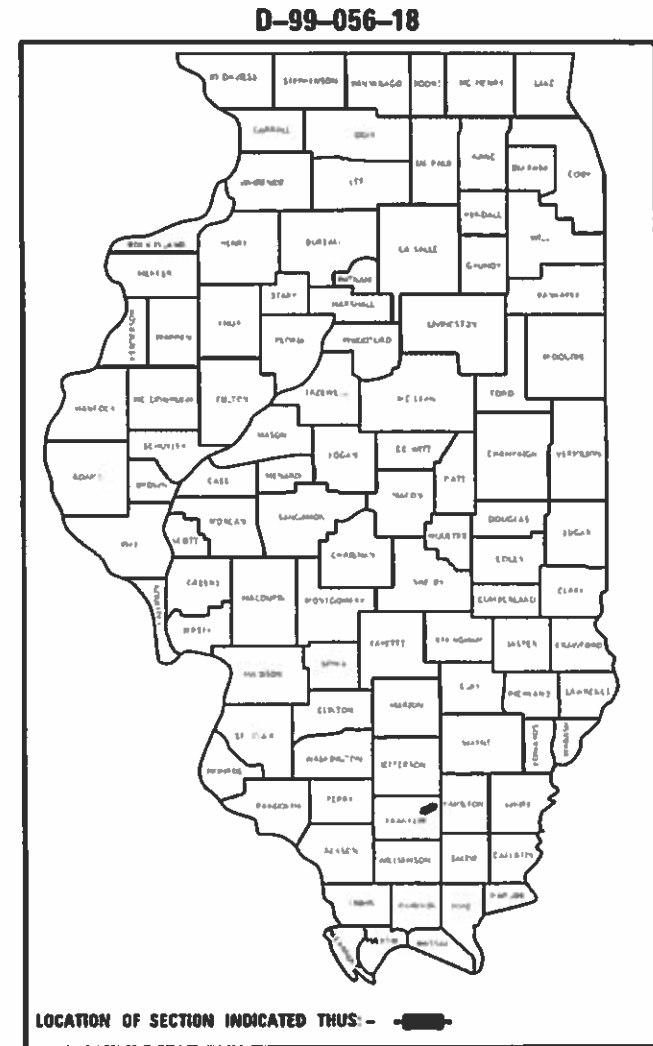
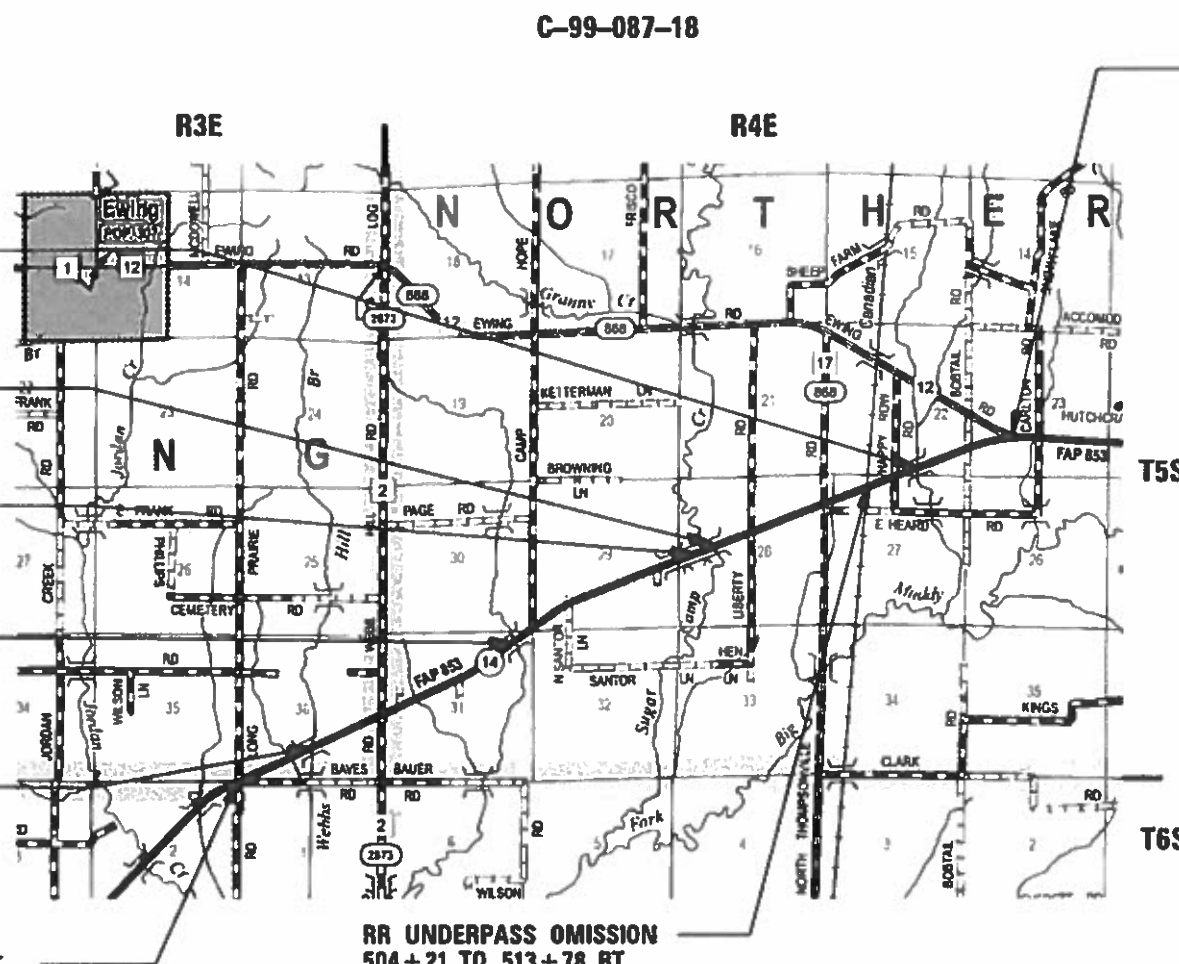
PROJECT START  
STA. 255+08

RR UNDERPASS OMISSION  
504+21 TO 513+78 RT  
504+24 TO 513+78 LT

GROSS LENGTH = 31562 FT. = 5.98 MILES  
NET LENGTH = 29806 FT. = 5.65 MILES

PROJECT ENGINEER: SUSAN POE  
PROJECT DESIGNER: DYLAN WHITE

CONTRACT NO. 78659



PROJECT END  
STA. 570+70

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 2 2018  
Jeffrey L. Keim  
REGION FIVE ENGINEER

Dec 7 2018  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2018  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

SHT. NO	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, MIXTURES REQUIREMENTS, GENERAL NOTES, SIGNATURE BLOCK
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5	SCHEDULES OF QUANTITIES
6	DETAIL: AGGREGATE ENTRANCES

## STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
642006	SHOULDER RUMBLE STRIPS, 8 INCH
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES

## MIXTURES REQUIREMENTS

Locations	Hot-Mix Asphalt Shoulders (Top Lift)
Mixture Use(s):	Hot-Mix Asphalt Shoulders, IL-9.5L
AC/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5L
Friction Aggregate:	None
Mixture Weight:	112 Lbs/Sq Yd/In
Quality Management Program:	OCHOA
Sublot Size:	NA

Locations	Hot-Mix Asphalt Shoulders (Lower Lifts)
Mixture Use(s):	Hot-Mix Asphalt Shoulders, IL-19.0L
AC/PG:	PG64-22
ABR % (Max):	See Special Provision
Design Air Voids:	4.0 %, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0L
Friction Aggregate:	None
Mixture Weight:	112 Lbs/Sq Yd/In
Quality Management Program:	OCHOA
Sublot Size:	NA

## GENERAL NOTES

1. THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.
2. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 

ALL HOT MIX ASPHALT	2.016 TONS/CU YD
BITUMINOUS MATERIALS: (TACK COAT)	
HMA LIFTS	0.025 LBS. / SQ. FT.
3. WHEN PLACING HOT-MIX ASPHALT SHOULDERS, 8", THE CONTRACTOR SHALL TRIM EXISTING SURFACE AND BASE TO A FIRM, NEAR VERTICAL PLANE BEFORE CONSTRUCTING THE HOT-MIX ASPHALT SHOULDERS, 8". THE COST OF THIS REQUIREMENT IS INCLUDED IN THE UNIT PRICE FOR HOT-MIX ASPHALT SHOULDERS, 8".
4. THE EXCAVATED AGGREGATE/EARTH FOR THE PROPOSED SHOULDER SHALL NOT BE WASTED ON THE CONSTRUCTION SITE, UNLESS APPROVAL IS FIRST GIVEN BY THE ENGINEER.
5. THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

Prepared By:

DISTRICT STUDIES & PLANS ENGINEER

Examined By:

*Nancy Hei*  
DISTRICT LAND ACQUISITION ENGINEER

Examined By:

*Carrie Nelson*  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:

*Carl D. [Signature]*  
DISTRICT OPERATIONS ENGINEER

Examined By:

*[Signature]*  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

*Dave [Signature]*  
DISTRICT CONSTRUCTION ENGINEER

Examined By:

*[Signature]*  
DISTRICT MATERIALS ENGINEER

REV. - MS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STANDARDS, MIXTURE REQUIREMENTS  
GENERAL NOTES, SIGNATURE BLOCK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	D9 SAFETY SHLDRS 2019-1	FRANKLIN	6	2
			CONTRACT NO. 78659	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

# SUMMARY OF QUANTITIES

<b>COUNTY:</b>	<b>FRANKLIN</b>
<b>ROUTE:</b>	<b>FAP 853 (IL 14)</b>
<b>FUNDING:</b>	<b>90% FEDERAL, 10% STATE</b>
<b>LOCATION:</b>	<b>RURAL</b>
	<b>ROADWAY</b>
	<b>0021</b>

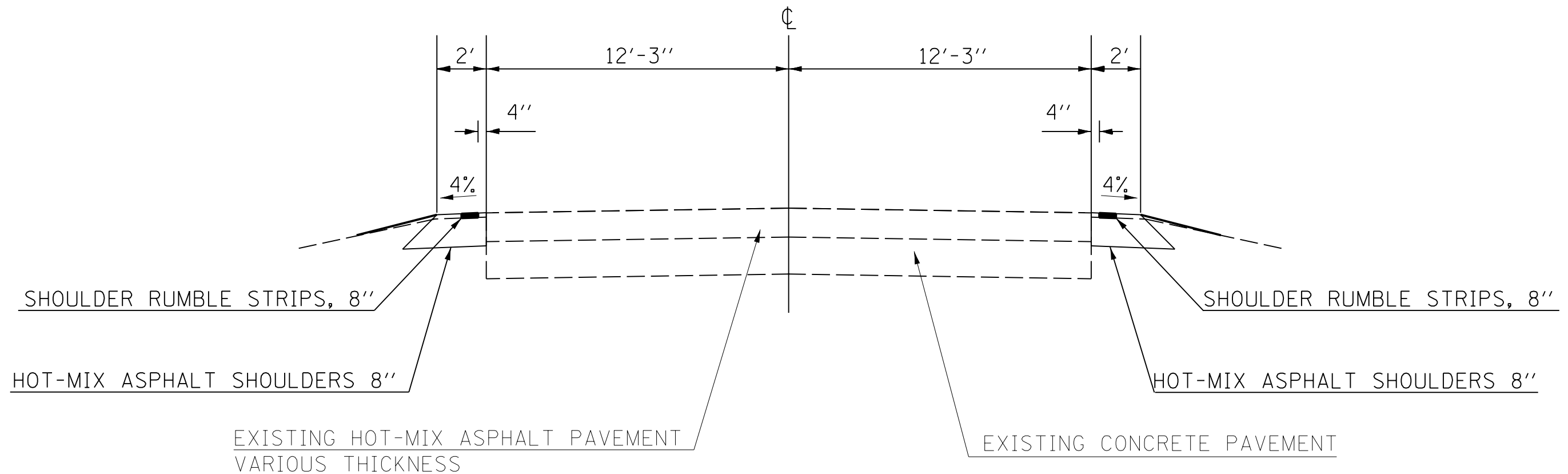
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	553	553
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5,525	5,525
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	12,278	12,278
64200108	SHOULDER RUMBLE STRIPS, 8"	FOOT	55,730	55,730
67100100	MOBILIZATION	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	22	22
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	28	28

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REV. - MS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																
853	D9 SAFETY SHLDRS 2019-1	FRANKLIN	6	3																
CONTRACT NO. 78659																				
			SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT														

# TYPICAL SECTIONS



TO BE USED:  
 255+13 TO 570+70 RT  
 255+08 TO 568+06 LT

## OMISSIONS:

282+15 TO 285+24 LT	447+63 TO 450+93 LT
282+33 TO 285+34 RT	447+77 TO 451+03 RT
365+28 TO 371+35 RT	504+21 TO 513+78 RT
366+19 TO 371+71 LT	504+24 TO 513+78 LT
431+21 TO 436+01 RT	529+06 TO 531+22 LT
439+97 TO 442+35 LT	529+23 TO 531+28 RT
440+13 TO 442+50 RT	

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	D9 SAFETY SHLDRS 2019-1	FRANKLIN	6	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78659	

### SHOULDER SCHEDULE

LOCATION STATION TO STATION					GROSS LENGTH	ENTRANCES TO GAP	SIDEROADS TO OMIT	NET LENGTH	EXCAVATING AND GRADING EXISTING SHOULDER	HOT-MIX ASPHALT SHOULDERS, 8"	BITUMINOUS MATERIALS (TACK COAT)	SHOULDER RUMBLE STRIPS, 8"	REMARKS
					FOOT			FOOT	UNIT	SQ YD	POUND	FOOT	
<b>IL 14 (FAP 853)</b>													
255+13	RT	TO	282+33	RT	2720	1 @ 35' WIDTH		2685	27	597	269	2685	
255+08	LT	TO	282+15	LT	2707			2707	27	602	271	2707	
285+34	RT	TO	365+28	RT	7994	2 @ 20' WIDTH 4 @ 25' WIDTH 2 @ 30' WIDTH	1 @ 76' WIDTH	7718	77	1715	772	7718	
285+24	LT	TO	366+19	LT	8095	1 @ 25' WIDTH 2 @ 30' WIDTH 1 @ 45' WIDTH 1 @ 50' WIDTH 1 @ 55' WIDTH	1 @ 45' WIDTH	7815	78	1737	782	7815	<b>Sta. 325+75 to 328+03 LT :</b> Guardrail 2' from EOP. Keep shoulder excavation 6" away from guardrail posts.
371+35	RT	TO	431+21	RT	5986	1 @ 30' WIDTH 2 @ 35' WIDTH 2 @ 40' WIDTH 1 @ 45' WIDTH		5761	58	1280	576	5761	
431+21	RT	TO	436+01	RT	480			480				480	Existing 2' Shoulder
371+71	LT	TO	439+97	LT	6826	7 @ 30' WIDTH 1 @ 35' WIDTH 1 @ 50' WIDTH	1 @ 75' WIDTH	6456	65	1435	646	6456	
436+01	RT	TO	440+13	RT	412			412	4	92	41	412	
442+35	LT	TO	447+63	LT	528			528	5	117	53	528	
442+50	RT	TO	447+77	RT	527			527	5	117	53	527	
450+93	LT	TO	504+24	LT	5331	2 @ 25' WIDTH 1 @ 30' WIDTH	1 @ 31' WIDTH 1 @ 95' WIDTH	5125	51	1139	513	5125	End run at V-gutter
451+03	RT	TO	504+21	RT	5318	1 @ 20' WIDTH 2 @ 30' WIDTH 1 @ 40' WIDTH	1 @ 38' WIDTH 1 @ 200' WIDTH	4960	50	1102	496	4960	End run at V-gutter
513+78	LT	TO	529+06	LT	1528		1 @ 55' WIDTH	1473	15	327	147	1473	Start run at V-gutter
513+78	RT	TO	529+23	RT	1545		1 @ 44' WIDTH	1501	15	334	150	1501	Start run at V-gutter
531+22	LT	TO	568+06	LT	3684		1 @ 29' WIDTH	3655	37	812	366	3655	
531+28	RT	TO	570+70	RT	3942	1 @ 15' WIDTH		3927	39	873	393	3927	
<b>TOTALS</b>					<b>57623</b>			<b>55730</b>	<b>553</b>	<b>12278</b>	<b>5525</b>	<b>55730</b>	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES**

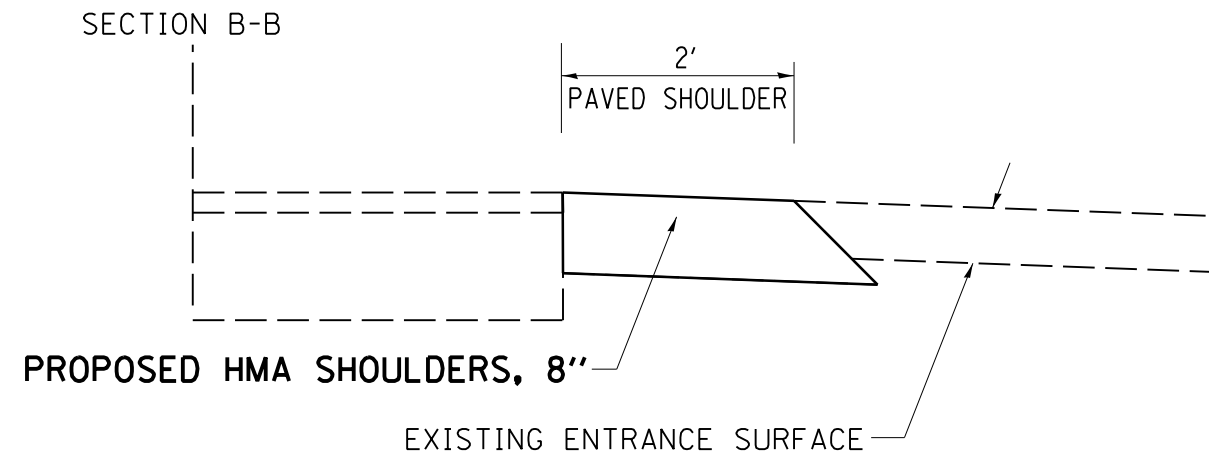
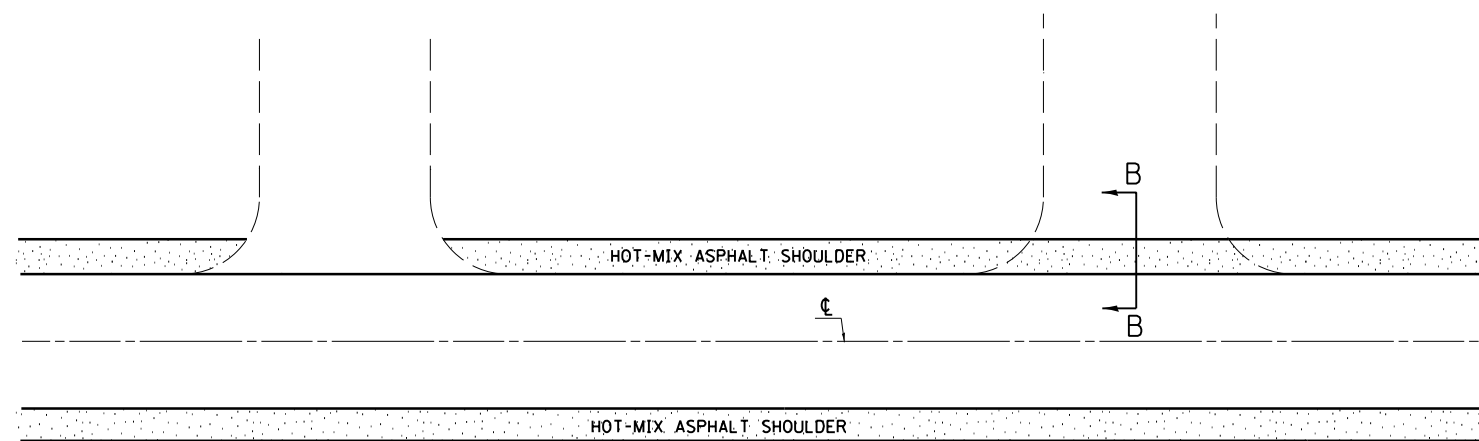
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
853	D9 SAFETY SHLDRS 2019-1	FRANKLIN	6	5
CONTRACT NO. 78659				
ILLINOIS FED. AID PROJECT				

# ENTRANCE AND SIDE ROAD DETAILS

CONCRETE OR HMA ENTRANCES & SIDE ROADS

AGGREGATE ENTRANCES & SIDEROADS



### GENERAL NOTES

CONSTRUCT HOT-MIX ASPHALT SHOULDER THROUGH AGGREGATE ENTRANCE OR SIDE ROADS.  
IF THE ENTRANCE OR SIDE ROAD IS CONCRETE OR HMA THEN PLACE SHOULDER UP TO EDGE  
OF THE ENTRANCE OR SIDE ROAD PAVEMENT.

THE MATERIAL THAT IS REMOVED TO PLACE THE SHOULDER SHALL BE WASTED ON THE FORESLOPE AND  
GRADED BACK TO THE EDGE OF THE PROPOSED SHOULDER. DO NOT PLACE WASTE MATERIAL ONTO EXISTING  
ENTRANCES, SIDE ROADS, OR ON MAINTAINED LAWNS.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL: AGGREGATE ENTRANCES**

SCALE: SHEET OF SHEETS STA. TO STA.

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