

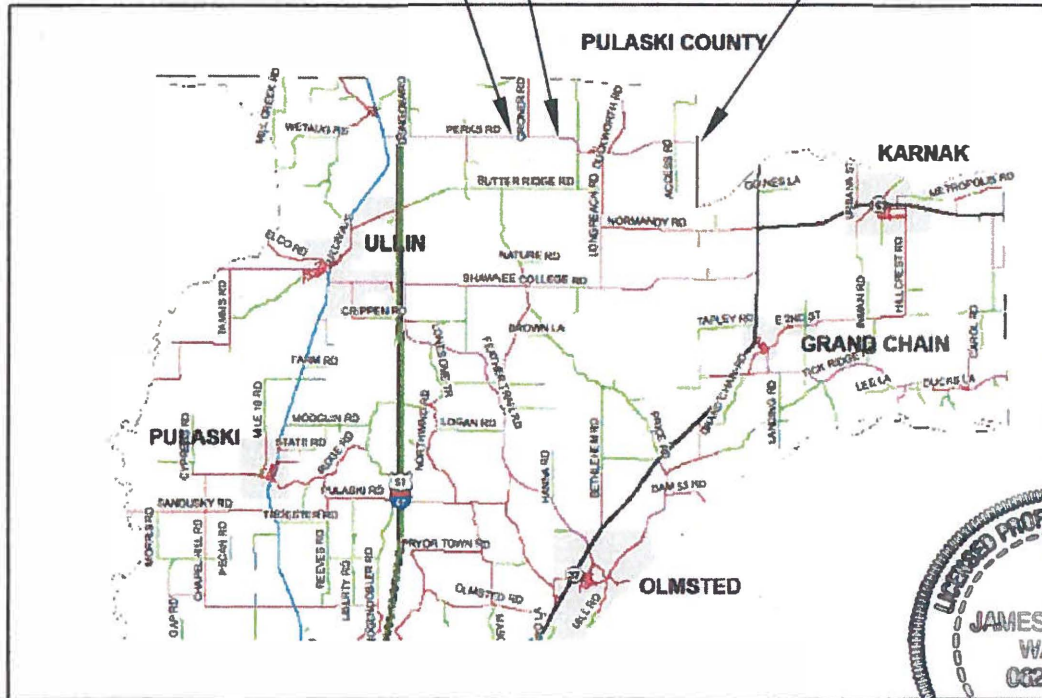
# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM

FAS 940 (Perks Rd) (CH-5)  
Section 14-00073-00-RS  
AARN (459)  
JOB NO.C-99-510-15

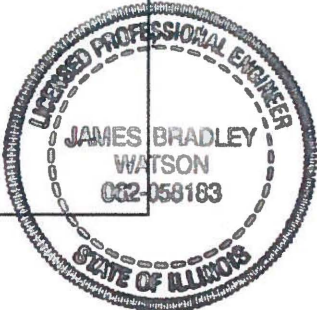
PULASKI COUNTY

SN# 077-3120  
STA. 2.400

Project Location  
STA. 6.800



FUNCTIONAL CLASSIFICATION: Major Collector  
ADT: 450  
DESIGN SPEED: 50 MPH



Net Length= 4.400 miles - 0.0 miles =4.400 miles or 23,232'

Contract # 99589

CALL BEFORE YOU DIG  
JULIE 1-800-892-0123

*James B. Watson*  
 JAMES BRADLEY WATSON  
 PROFESSIONAL ENGINEER  
 #062.058183  
 EXPIRES NOV 30, 2019

ILLINOIS DEPARTMENT OF TRANSPORTATION	
Approved	<u>2/5/18</u> <i>James B. Watson</i> Pulaski County Engineer
Passed	<u>2/09/18</u> <i>[Signature]</i> District 9 Engineer of Local Roads & Streets
	<u>2/09/18</u> <i>[Signature]</i> Acting Deputy Director of Highways, Region 5 Engineer

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS AND SUMMARY OF QUANTITIES/ MIX DESIGN/ FACTORS
- 3 TYPICAL SECTION
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- 6 TYPICAL SECTION CURB
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- 8 TRANSITIONS CURB
- 9 TRANSITIONS
- 10 SCHEDULE OF SIDE ROAD AND ENTRANCES
- 11 ENTRANCE DETAILS (SIDE ROAD)
- 12 ENTRANCE DETAILS (PRIVATE)
- 13 Guardrail
- 14 ROAD CLOSURE SIGNING

STANDARDS

442201-03	701301-04	B.L.R. 24-2
630001-12	701311-03	B.L.R. 21-9
630301-08	701306-04	
631011-10	701901-07	
701001-02	781001-04	
701006-05	780001-05	
701011-04	782006	

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**General Notes:**

No Passing Zones and edge line breaks recorded by the Engineer before paving and/or surface removal.  
The existing surface shall be primed the full width of the roadway.  
Hot-Mix Asphalt .....112 Tons/ sq yd/ in  
Aggregate.....2.025 Tons/ cu. yard  
Bit. Materials .....(Tack Coat) 0.05 lbs/sq yd

**SUMMARY OF QUANTITIES**

CODE NUMBER	PAY ITEM	UNIT OF MEASURE	QUANTITY
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	275.7
20400100	BORROW EXCAVATION	CU YD	40
21400100	GRADING & SHAPING DITCHES	FOOT	73
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	46.5
40600290	BITUMINOUS MATERIALS, (TACK COAT)	POUND	4385
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	2422.3
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	5458.3
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	8325.1
44201859	CLASS D PATCHES, TYPE 1, 18 INCH	SQ YD	39.1
48101200	AGGREGATE SHOULDERS, TYPE B	TON	3150
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	275.7
△ 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	150
	9 FOOT POSTS		
△ 63100045	TRAFFIC BARRIER TERMINAL TYPE 2	EACH	2
△ 63100167	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL	EACH	2
	TANGENT		
△ 63200310	GUARDRAIL REMOVAL	FOOT	104
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION STANDARD 701306	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION STANDARD BLR 21	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4647
70300220	TEMPORARY PAINT PAVEMENT MARKING-LINE 4"	FOOT	56,442
△ 78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	56,442
78100100	RAISED REFLECTIVE PAVEMENT MARKERS	EACH	292
△ 78200005	GUARDRAIL MARKERS, TYPE A	EACH	6
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

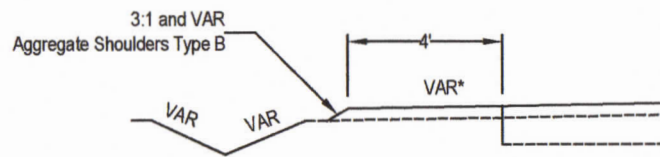
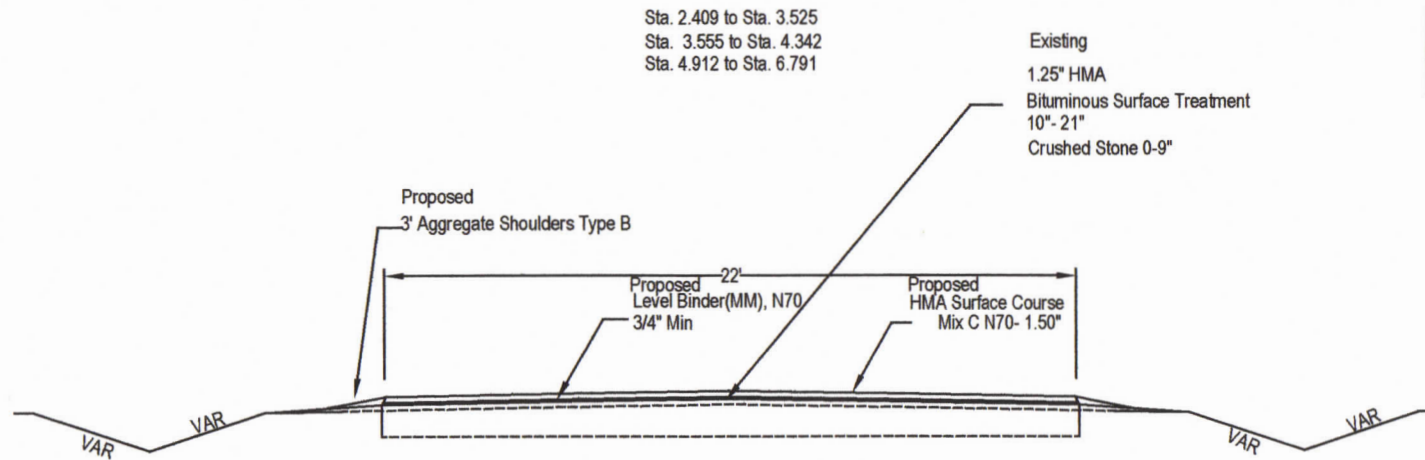
**ASPHALT MIXTURE REQUIREMENTS**

Mixture Use:	Leveling Binder MM, N70
PG:	PG64-22
RAP%(Max)	10
Design Air Voids	4% 70 Gyraton Superpave Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm
Friction Aggregate:	None

Mixture Use:	HMA Surface Course, Mix "C", N70
PG:	PG64-22
RAP%(Max)	10
Design Air Voids	4% 70 Gyraton Superpave Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm or IL 12.5 mm
Friction Aggregate:	C Surface

△ SPECIALTY ITEMS

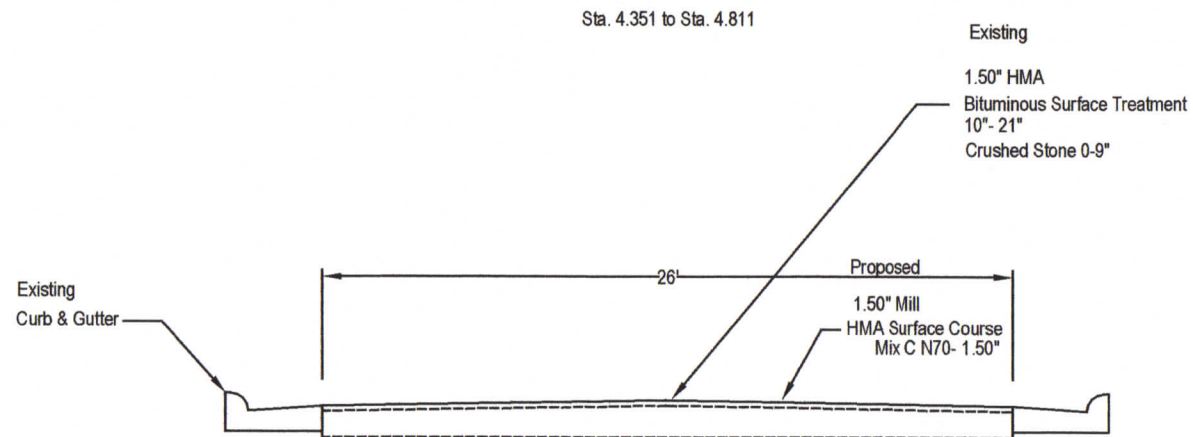
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SHOULDER DETAIL FOR OUTSIDE EDGE OF  
SUPERELEVATED CURVE

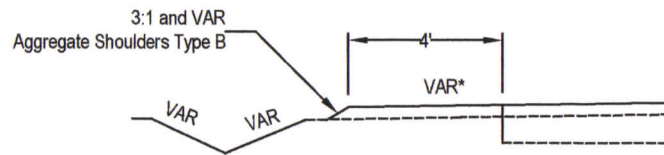
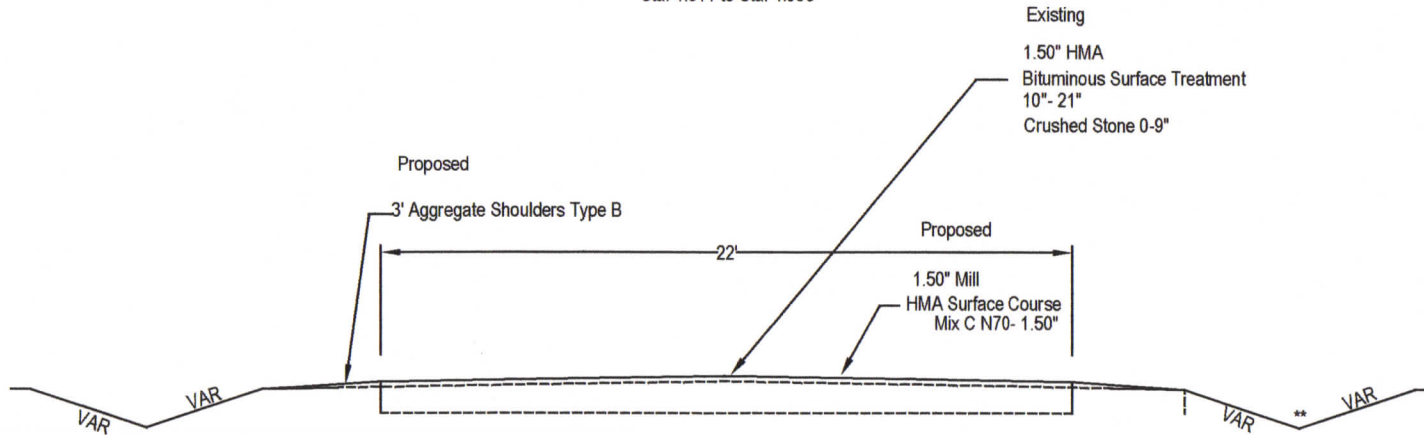
\*Slope 3/4"/ft but not more than 0.12'/ft  
break between pavement and shoulder.

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Sta. 4.811 to Sta. 4.903

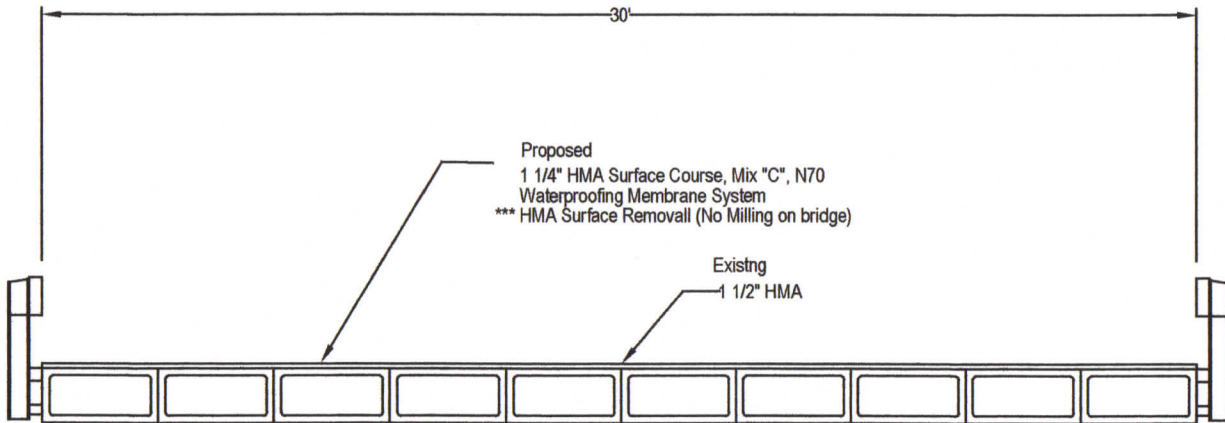


SHOULDER DETAIL FOR OUTSIDE EDGE OF  
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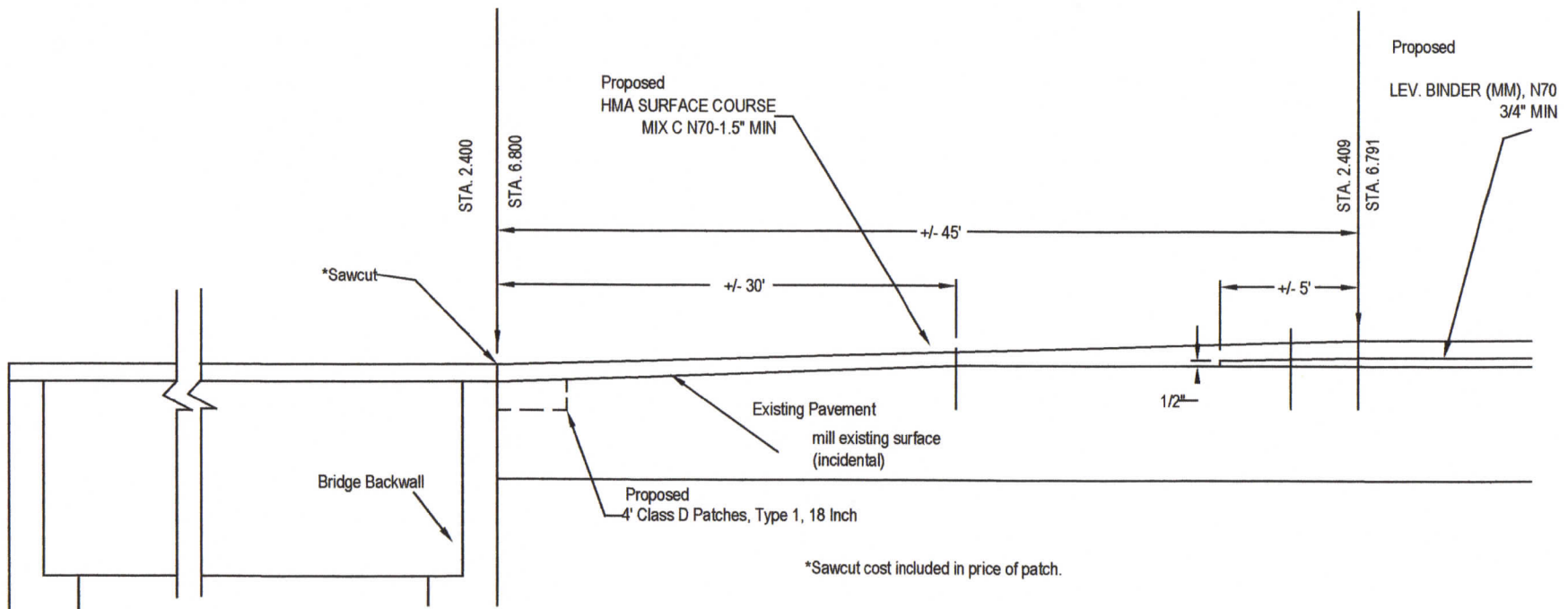
Structure #077-3120  
Sta. 3.501 to Sta. 3.517

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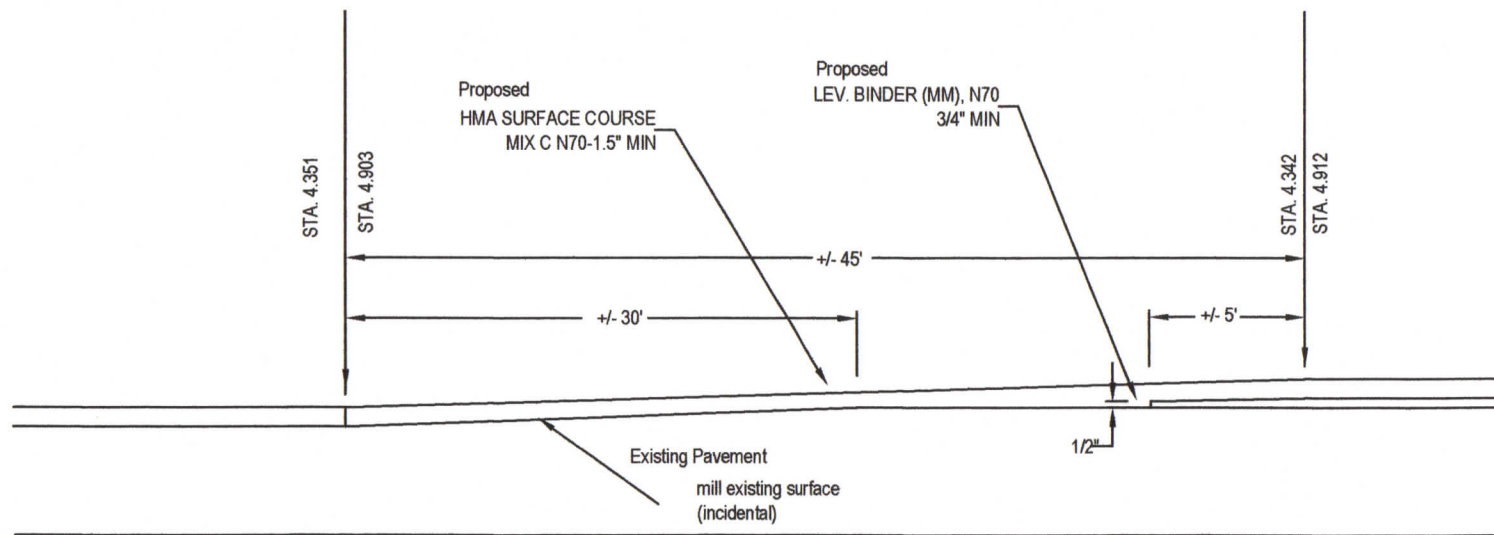
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### BEGINNING & ENDING JOINTS



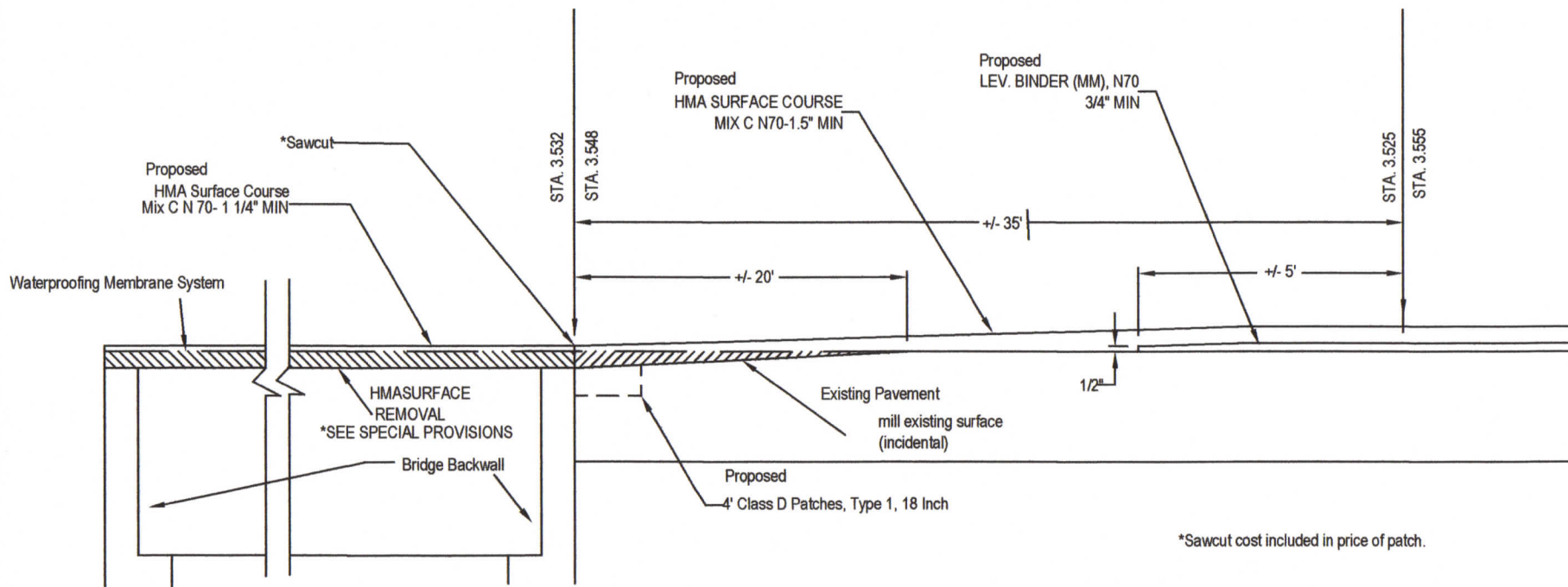
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### TRANSITION/ JOINTS





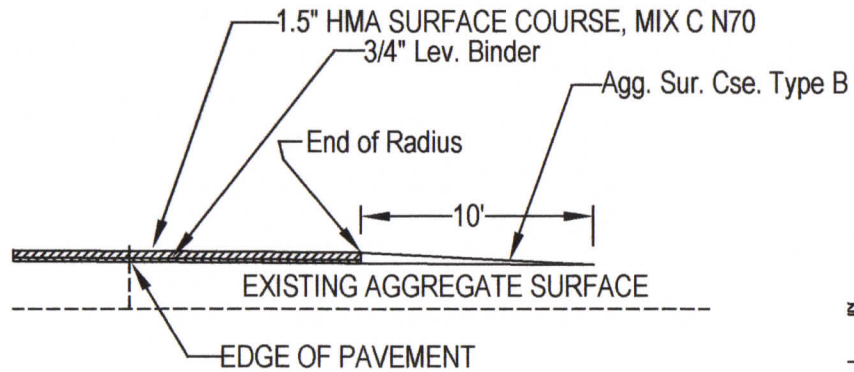
### BRIDGE DETAIL & BUTT JOINT



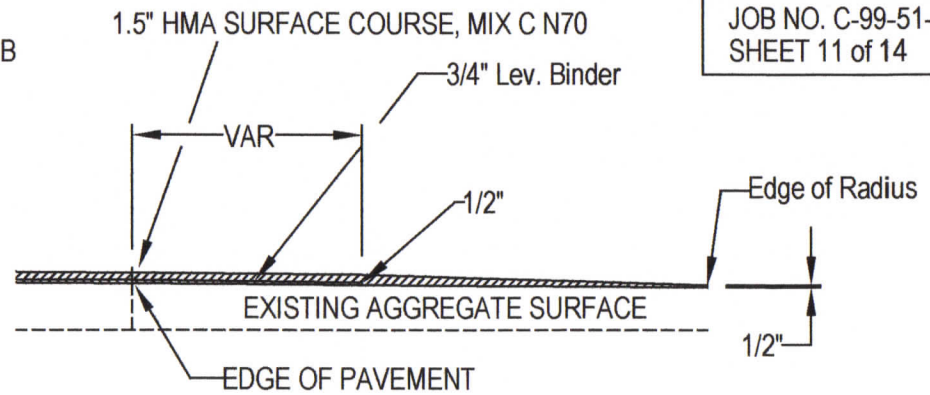
### Schedule OF Side Road & Entrance Quantities

Station	Lt/Rt	Level Binder	HMA Surface	Agg Surface	
		(Ton)	(Ton)	Course B (Ton)	
2.490	Rt	1.1	2.2	2.2	
2.490	Lt	0.6	1.1	1.1	
2.619	Rt	1.3	2.6	2.3	
2.854	Rt	1.2	2.4	2.3	
2.868	Lt			0.9	
3.013	Rt			1.1	
3.019	Lt	0.9	2.9		
3.508	Rt			1.3	
3.539	Rt			1.1	
3.581	Lt	1.1	2.2	2.2	
3.618	Lt	0.5	0.9	0.8	
4.054	Lt	2.7	6.2		
4.144	Rt	0.8	1.6	1.7	
4.245	Rt			1.2	
4.285	Rt	1.9	4.7		
4.305	Rt	2.2	4.2	4.5	
5.266	Rt			1.3	
5.548	Rt	0.5	1.0	1.0	
5.550	Rt	0.5	0.9	0.9	
5.554	Lt	0.8	1.5	1.4	
5.589	Rt	1.0	1.8	1.6	
5.826	Rt			1.5	
5.944	Rt	0.5	1.0	0.9	
5.962	Rt	0.6	1.1	1.0	
5.979	Rt	0.9	1.7	1.6	
6.079	Lt			0.9	
6.118	Lt	0.6	1.2	1.3	
6.325	Rt	1.9	4.5		
6.325	Lt	2.2	5.2		
6.556	Lt	0.6	1.2	1.1	
6.558	Rt	0.5	1.0	0.9	
6.572	Lt	0.5	1.0	0.9	
6.732	Lt	0.8	1.5	1.4	
6.752	Rt	0.8	1.5	1.4	
6.785	Rt	0.8	1.6	1.4	
6.785	Lt	1.5	3.0	3.2	
	Totals	29.5	61.6	46.5	

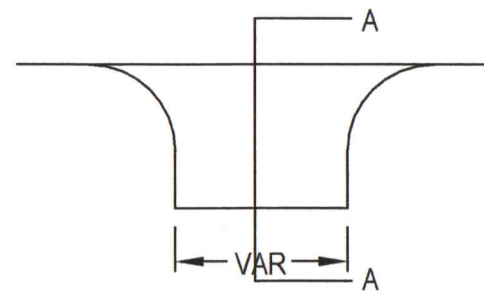
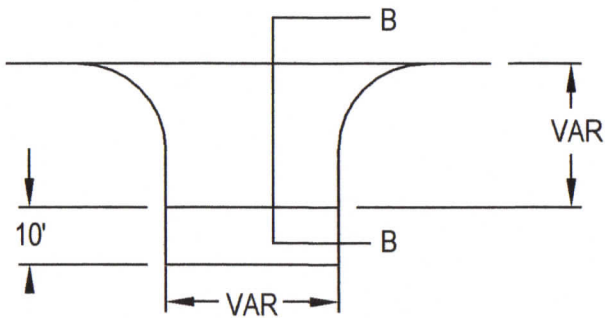
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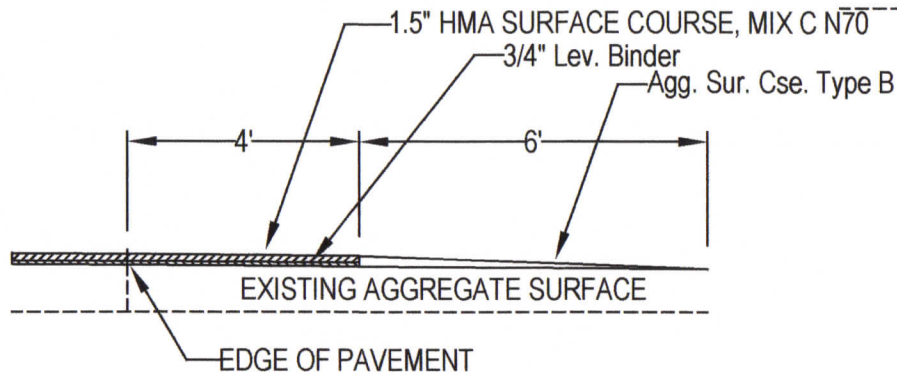
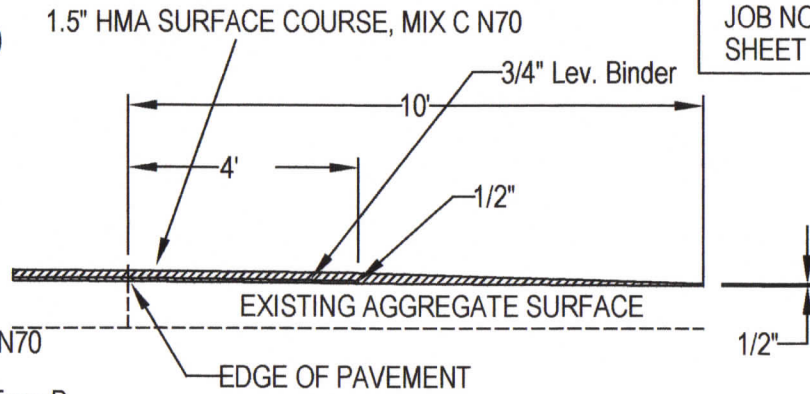
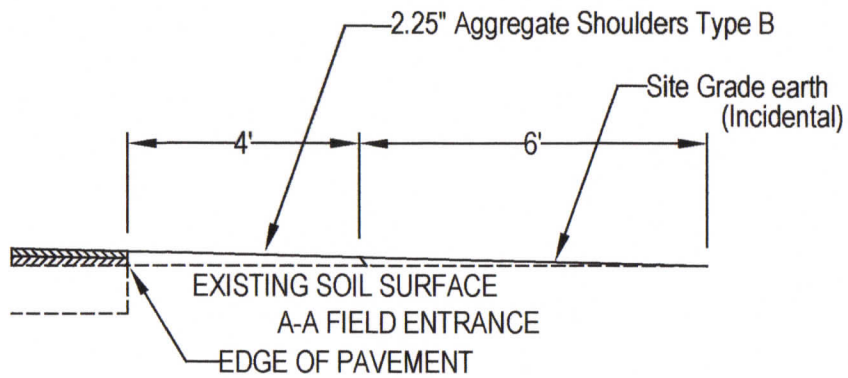
B-B Side Road-AGGREGATE



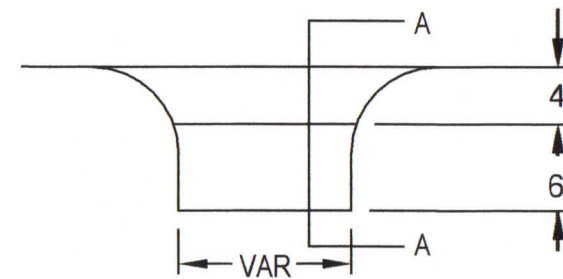
A-A Side Road-ASPHALT



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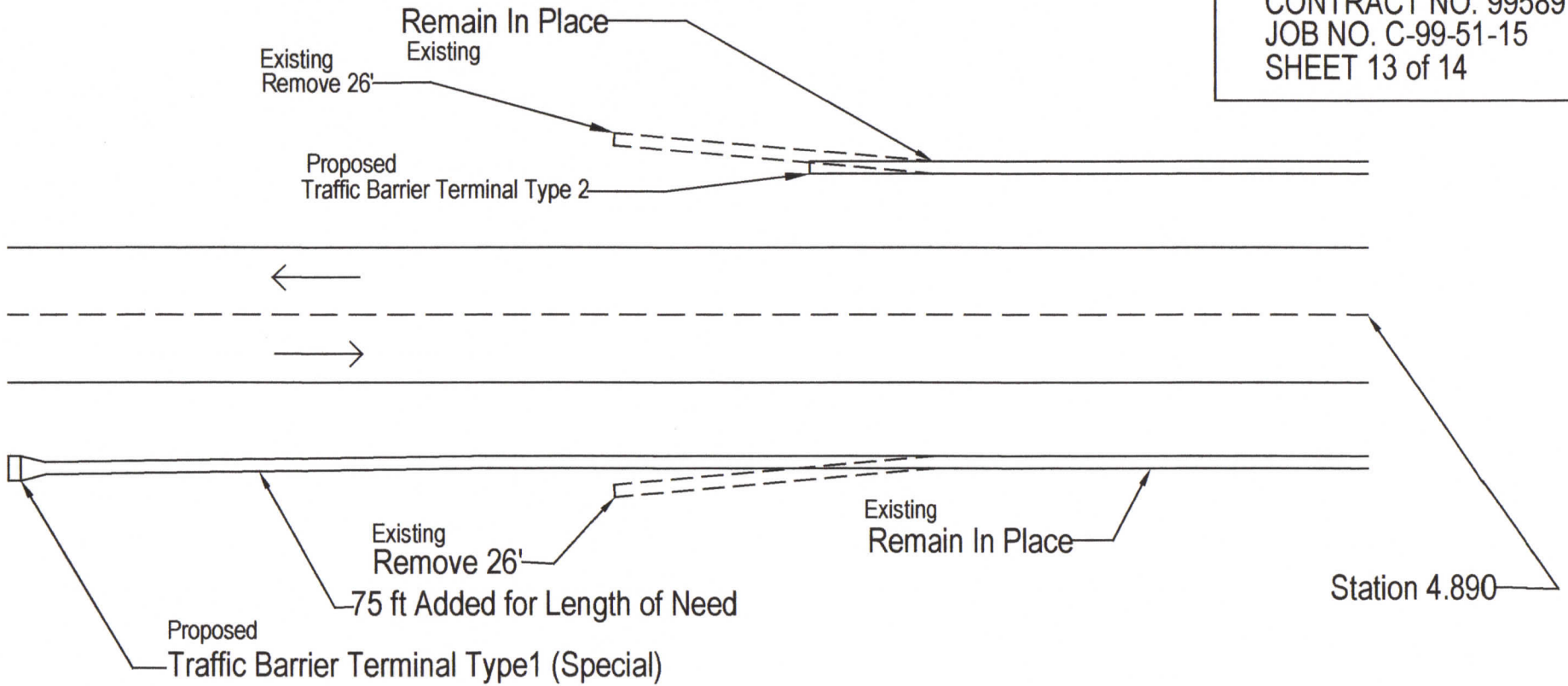
A-A PRIVATE ENTRANCE-ASPHALT



A-A PRIVATE ENTRANCE-AGGREGATE

# Guardrail Eastbound and Westbound

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### Road Closure Signing

- Additional Sign "Road Closed X Miles" (See Standard BLR-21 General Notes)

- Detour Signs M4-10 (Mount Below Road Closed Sign Where Applicable)

- Type III Barricades- Closed To All Traffic

- Advanced Warning Signs -Standard BLR-21

-Bridge Location

US Highway 51

miles

Perks Rd

miles

Big Creek Rd

Belmont Rd

Long Reach Rd

US Highway 37

Butter Ridge Rd

