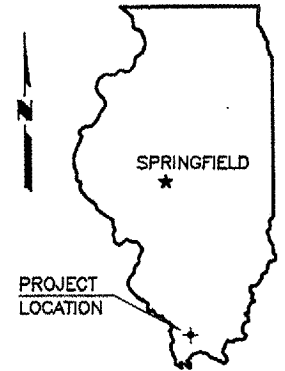


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM

FAS ROUTE 924 (LICK CREEK ROAD)
SECTION 05-00095-00-RS
PROJECT NO. RS-924 (122)
JOB NO. C-99-518-05

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 924	05-00095-00-RS	UNION	5	1
PROJECT NO. RS-924 (122)			CONTRACT NO. 99277	

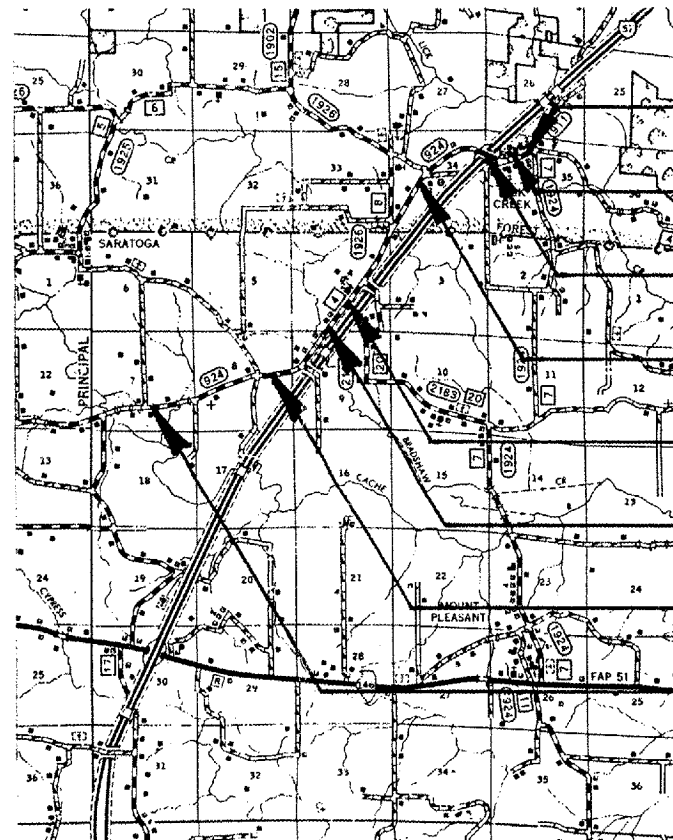


SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	TOTAL
40200800*	AGGREGATE SURFACE COURSE, TYPE B	TON	50
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2,110
40600300	AGGREGATE (PRIME COAT)	TON	32
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	4,590
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	5,060
44300100*	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	112
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1,660
67100100*	MOBILIZATION	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	5,092
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	81,670
72000100	SIGN PANEL - TYPE 1	SQ FT	241.1
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	711.5
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	86,710
△ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	343
△ 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4

* SEE SPECIAL PROVISIONS
△ SPECIALTY ITEMS

UNION COUNTY



END IMPROVEMENT
STATION 539+80

EQ. STA. 526+00.00 BACK
= STA. 526+44.07 AHEAD

OMISSION
STA. 506+10 - STA. 518+70

EQ. STA. 467+50.70 BACK
= STA. 468+00.00 AHEAD

EQ. STA. 389+99.96 BACK
= STA. 390+17.40 AHEAD

EQ. STA. 368+83.90 BACK
= STA. 368+79.53 AHEAD

EQ. STA. 331+59.49 BACK
= STA. 331+65.50 AHEAD

BEGIN IMPROVEMENT
STATION 261+00

INDEX OF SHEETS

- COVER SHEET
- TYPICAL SECTIONS
- RESURFACING SCHEDULE
- TYPICAL SIDE ROAD & ENTRANCE DETAILS
- MISCELLANEOUS DETAILS
 - STANDARDS 701001-01 TRAFFIC CONTROL
 - 701006-02 TRAFFIC CONTROL
 - 701011-01 TRAFFIC CONTROL
 - 701301-02 TRAFFIC CONTROL
 - 701306-01 TRAFFIC CONTROL
 - 701311-02 TRAFFIC CONTROL
 - 701501-03 TRAFFIC CONTROL
 - 702001-06 TRAFFIC CONTROL DEVICES
 - 720001 SIGN PANEL MOUNTING DETAILS
 - 720006-01 SIGN PANEL ERECTION DETAILS
 - 780001-01 TYPICAL PAVEMENT MARKINGS
 - 781001-02 RAISED REFLECTIVE PAVEMENT MARKERS
 - BLR 24-1 MAILBOX TURNOUTS

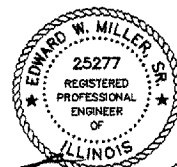
CLASSIFICATION : COLLECTOR
ADT : 2035
DESIGN SPEED : 50 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION	
Approved	<i>April 5, 2007</i> <i>Bill R. Boyd</i> Union County Engineer
Passed	<i>April 11, 2007</i> <i>Dennis W. Hill</i> District 9 Engineer of Local Roads and Streets
Releasing for Bid Based on Limited Review	<i>April 11, 2007</i> <i>Mary C. Lane</i> Deputy Director of Highways, Region 5 Engineer

LOCATION MAP

SCALE: 1" = 2 MILES

NET LENGTH OF IMPROVEMENT = 26,507.55 FT. = 5.0204 MILES



Edward W. Miller
Edward W. Miller
PROFESSIONAL ENGINEER
#062-025277
EXPIRES NOV. 30, 2007

CONTRACT NO. 99277

E. MILLER ENGINEERING, INC.
CONSULTING ENGINEERS
HARRISBURG, ILLINOIS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 924	05-00095-00-RS	UNION	5	2
PROJECT NO. RS-924 (122)			CONTRACT NO. 99277	

GENERAL NOTES

All bridge decks, tapers, and milled butt joints shall be primed the full width of the surface. The general roadway shall be primed as indicated on the typical sections. Prime shall be applied at the rates shown below.

Factors used for quantity calculations are as follows:

All Asphalt..... 112.0 Tons/Sq. Yd./Inch
 All Aggregate 2.025 Tons/Cu. Yd.
 Bit. Matls. (Prime Coat) 0.10 Gals./Sq. Yd.
 Aggregate (Prime Coat) 0.0015 Tons/Sq. Yd.

STRUCTURAL DESIGN DATA

STA. 261+00 - STA. 347+00

Class III Roadway
 Design Period - 8 Years
 PC 1660 IBR 2.5
 SU 70 TF 0.0506
 MU 20 DT 2.754

STA. 347+00 - STA. 421+10

Class III Roadway
 Design Period - 8 Years
 PC 1570 IBR 2.5
 SU 65 TF 0.0426
 MU 15 DT 2.668

STA. 421+10 - STA. 525+00

Class II Roadway
 Design Period - 8 Years
 PC 1935 IBR 2.5
 SU 80 TF 0.0547
 MU 20 DT 2.783

STA. 525+00 - STA. 539+80

Class III Roadway
 Design Period - 8 Years
 PC 630 IBR 2.5
 SU 25 TF 0.0154
 MU 5 DT 2.266

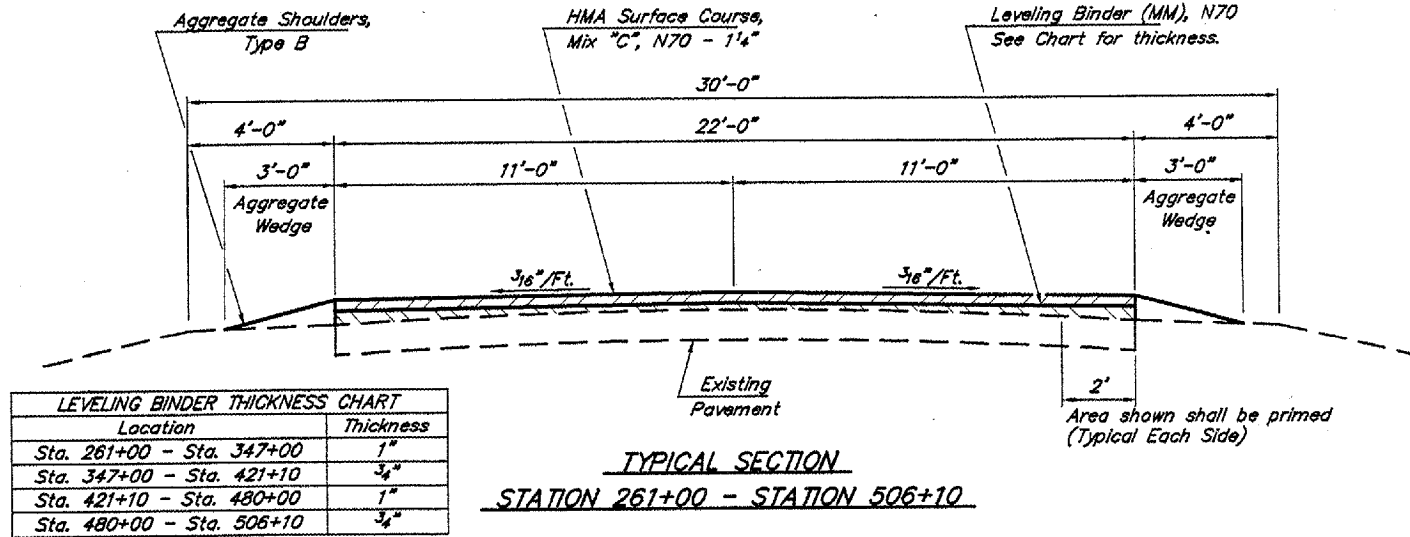
MATERIAL COEFFICIENT

Exist. Crushed Stone Base - 0.11
 Exist. Oil & Chip Surface - 0.18
 Bit. Mixture Complete - 0.25
 Levelling Binder (MM) - 0.33
 HMA Surface Course - 0.40

ASPHALT MIXTURE REQUIREMENTS

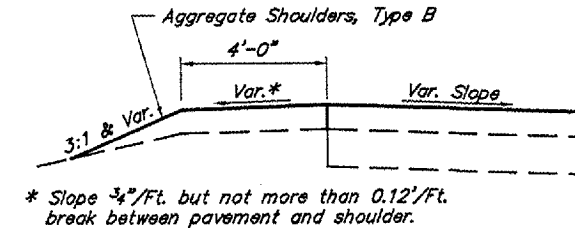
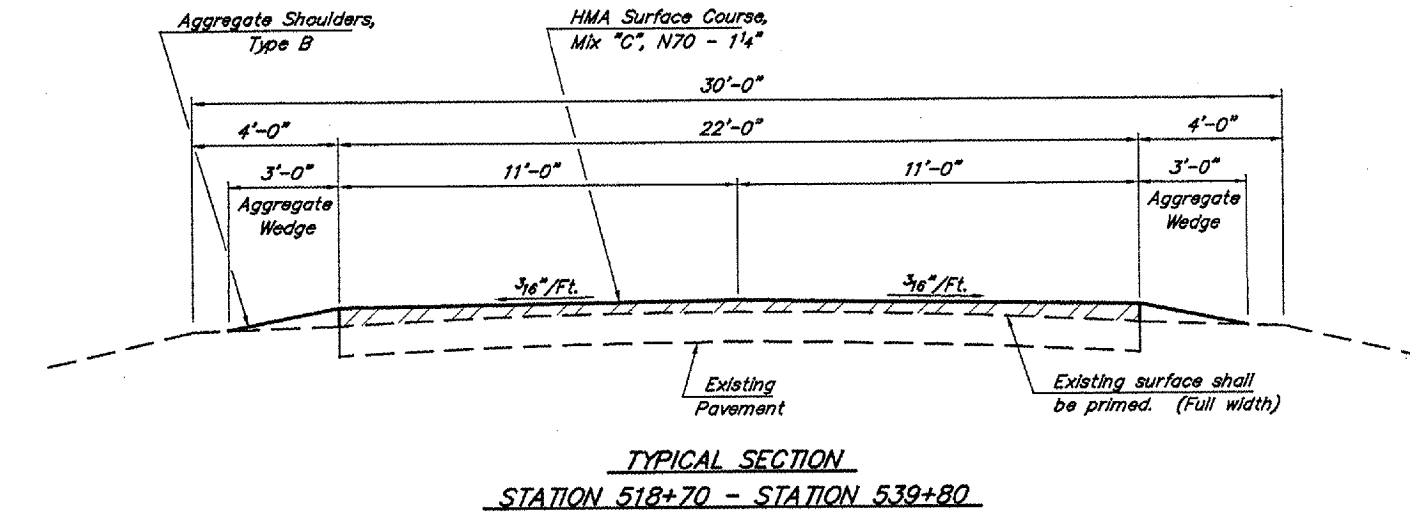
Mixture Use:	Levelling Binder (MM), N70
PG:	PG64-22
RAP% (Max):	10
Design Air Voids:	4% 70 Gyration Superpave Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm
Friction Aggregate:	None

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

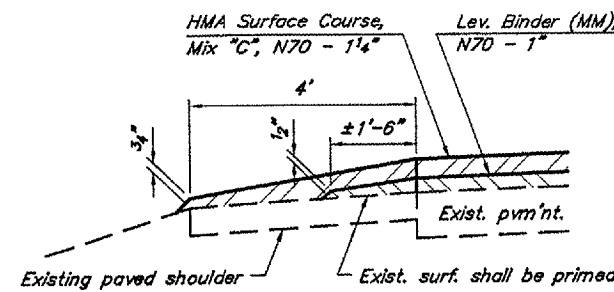


LEVELING BINDER THICKNESS CHART

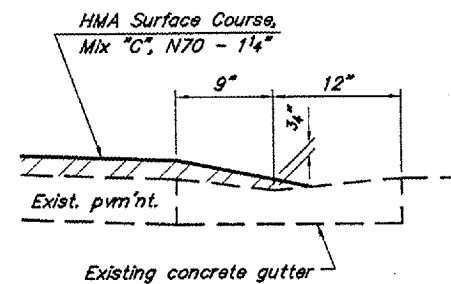
Location	Thickness
Sta. 261+00 - Sta. 347+00	1"
Sta. 347+00 - Sta. 421+10	3/4"
Sta. 421+10 - Sta. 480+00	1"
Sta. 480+00 - Sta. 506+10	3/4"



SHOULDER DETAIL FOR OUTSIDE EDGE OF SUPERELEVATED CURVES



PAVED SHOULDER DETAIL
STA. 292+48 - STA. 304+02 LT. & RT.



EDGE DETAIL AT CONCRETE GUTTER

Sta. 525+00 - Sta. 530+00 Rt.
Sta. 525+00 - Sta. 530+40 Lt.
Sta. 534+20 - Sta. 535+10 Rt.
Sta. 538+50 - Sta. 539+80 Rt.

SUPERELEVATIONS

S.E. = 0.039'/Ft. 50 MPH Attain Sta. 262+26 - Sta. 263+45 Remove Sta. 270+02 - Sta. 271+20	S.E. = 0.054'/Ft. 50 MPH Attain Sta. 325+15 - Sta. 326+67 Remove Sta. 331+20 - Sta. 332+78	S.E. = 0.049'/Ft. 50 MPH Attain Sta. 432+95 - Sta. 434+36 Remove Sta. 437+63 - Sta. 439+04
S.E. = 0.039'/Ft. 50 MPH Attain Sta. 276+05 - Sta. 277+24 Remove Sta. 279+84 - Sta. 281+02	S.E. = 0.072'/Ft. 50 MPH Attain Sta. 342+39 - Sta. 344+31 Remove Sta. 349+91 - Sta. 351+83	S.E. = 0.055'/Ft. 50 MPH Attain Sta. 469+63 - Sta. 471+17 Remove Sta. 478+82 - Sta. 480+36
S.E. = 0.065'/Ft. 50 MPH Attain Sta. 281+88 - Sta. 283+64 Remove Sta. 287+45 - Sta. 289+21	S.E. = 0.018'/Ft. 50 MPH Attain Sta. 368+24 - Sta. 368+93 Remove Sta. 374+80 - Sta. 375+52	S.E. = 0.058'/Ft. 50 MPH Attain Sta. 491+34 - Sta. 492+94 Remove Sta. 509+69 - Sta. 511+30
S.E. = 0.045'/Ft. 50 MPH Attain Sta. 295+23 - Sta. 296+55 Remove Sta. 299+89 - Sta. 301+21	S.E. = 0.018'/Ft. 50 MPH Attain Sta. 381+44 - Sta. 382+16 Remove Sta. 389+87 - Sta. 390+77	S.E. = 0.045'/Ft. 35 MPH Attain Sta. 515+71 - Sta. 516+77 Remove Sta. 525+74 - Sta. 527+24
S.E. = 0.046'/Ft. 50 MPH Attain Sta. 314+24 - Sta. 315+58 Remove Sta. 323+81 - Sta. 325+15	S.E. = 0.035'/Ft. 50 MPH Attain Sta. 412+52 - Sta. 413+62 Remove Sta. 417+11 - Sta. 418+21	S.E. = 0.028'/Ft. 40 MPH Attain Sta. 532+95 - Sta. 533+76 Remove Sta. 537+41 - Sta. 538+22

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 924	05-00095-00-RS	UNION	5	3
PROJECT NO. RS-924 (122)			CONTRACT NO. 99277	

RESURFACING SCHEDULE - EASTBOUND (RIGHT) LANE

Location Station to Station	Length Feet	Prime Coat		Leveling Binder Mach. Method Tons	Hot-Mix Asphalt Surface Cse. Tons
		Bituminous Materials Gallons	Aggregate Tons		
		EASTBOUND (RIGHT) LANE			
261+00 to 262+26	126.00	7.0	0.1	7.1	11.1
262+26 to 271+20	894.00	20.5	0.3	122.6	79.2
271+20 to 276+02.50	482.50	16.2	0.3	89.1	43.0
276+02.50 to 276+67.50	65.00	11.1	0.1		9.4
276+67.50 to 281+02	434.50	15.1	0.2	45.8	38.9
281+02 to 281+88	86.00	2.0	0.1	9.5	7.6
281+88 to 289+21	733.00	16.8	0.2	78.2	64.8
289+21 to 295+23	602.00	13.7	0.2	63.3	53.3
295+23 to 301+21	598.00	13.7	0.2	68.4	52.9
301+21 to 314+24	1303.00	29.9	0.5	169.6	115.3
314+24 to 325+15	1091.00	24.9	0.4	134.9	96.5
325+15 to 332+78	756.99	17.4	0.2	83.9	67.0
332+78 to 342+39	961.00	21.9	0.4	134.9	85.1
342+39 to 347+00	461.00	10.6	0.1	83.6	40.7
347+00 to 351+83	483.00	11.1	0.2	89.2	42.8
351+83 to 359+69.30	786.30	23.1	0.3	101.2	69.9
359+69.30 to 361+31.50	162.20	27.8	0.4		23.5
361+31.50 to 368+24	692.50	21.0	0.4	50.7	61.7
368+24 to 375+52	732.37	16.8	0.2	47.1	64.8
375+52 to 381+44	592.00	13.6	0.2	38.2	52.4
381+44 to 390+77	915.56	20.9	0.3	66.4	81.0
390+77 to 412+52	2175.00	49.8	0.8	134.6	192.4
412+52 to 418+21	569.00	13.0	0.2	38.7	50.4
418+21 to 421+10	289.00	6.6	0.1	19.7	25.5
421+10 to 432+95	1185.00	27.2	0.4	87.7	104.9
432+95 to 439+04	609.00	13.9	0.2	48.0	53.9
439+04 to 469+63	3009.70	68.9	1.0	274.9	266.3
469+63 to 480+36	1073.00	24.6	0.4	85.7	94.9
480+36 to 491+34	1098.00	25.1	0.4	70.0	97.2
491+34 to 506+10	1476.00	37.9	0.5	101.6	130.6
506+10 to 518+70	0.00				
518+70 to 527+24	809.93	101.9	1.6		122.5
527+24 to 532+95	571.00	71.9	1.0		64.1
532+95 to 538+22	527.00	66.4	1.0		62.1
538+22 to 539+80	158.00	19.9	0.3		19.2
Subtotals for EastBound (Right) Lane		882.2	13.2	2344.6	2444.9

RESURFACING SCHEDULE - WESTBOUND (LEFT) LANE

Location Station to Station	Length Feet	Prime Coat		Leveling Binder Mach. Method Tons	Hot-Mix Asphalt Surface Cse. Tons
		Bituminous Materials Gallons	Aggregate Tons		
		WESTBOUND (LEFT) LANE			
261+00 to 262+26	126.00	7.0	0.1	7.4	11.1
262+26 to 271+20	894.00	20.5	0.3	96.8	79.2
271+20 to 276+02.50	482.50	16.2	0.3	61.3	43.0
276+02.50 to 276+67.50	65.00	11.1	0.1		9.4
276+67.50 to 281+02	434.50	15.1	0.2	49.3	38.9
281+02 to 281+88	86.00	2.0	0.1	10.8	7.6
281+88 to 289+21	733.00	16.8	0.2	87.8	64.8
289+21 to 295+23	602.00	13.7	0.2	62.1	53.3
295+23 to 301+21	598.00	13.7	0.2	51.6	52.9
301+21 to 314+24	1303.00	29.9	0.5	112.9	115.3
314+24 to 325+15	1091.00	24.9	0.4	89.8	96.5
325+15 to 332+78	756.99	17.4	0.2	61.8	67.0
332+78 to 342+39	961.00	21.9	0.4	105.3	85.1
342+39 to 347+00	461.00	10.6	0.1	53.1	40.7
347+00 to 351+83	483.00	11.1	0.2	49.2	42.8
351+83 to 359+69.30	786.30	23.1	0.3	60.2	69.9
359+69.30 to 361+31.50	162.20	27.8	0.4		23.5
361+31.50 to 368+24	692.50	21.0	0.4	45.1	61.7
368+24 to 375+52	732.37	16.8	0.2	77.0	64.8
375+52 to 381+44	592.00	13.6	0.2	58.2	52.4
381+44 to 390+77	915.56	20.9	0.3	96.4	81.0
390+77 to 412+52	2175.00	49.8	0.8	144.9	192.4
412+52 to 418+21	569.00	13.0	0.2	39.1	50.4
418+21 to 421+10	289.00	6.6	0.1	19.2	25.5
421+10 to 432+95	1185.00	27.2	0.4	91.0	104.9
432+95 to 439+04	609.00	13.9	0.2	49.3	53.9
439+04 to 469+63	3009.70	68.9	1.0	235.9	266.3
469+63 to 480+36	1073.00	24.6	0.4	85.7	94.9
480+36 to 491+34	1098.00	25.1	0.4	70.9	97.2
491+34 to 506+10	1476.00	37.9	0.5	137.5	130.6
506+10 to 518+70	0.00				
518+70 to 527+24	809.93	101.9	1.6		78.1
527+24 to 532+95	571.00	71.9	1.0		60.1
532+95 to 538+22	527.00	66.4	1.0		62.8
538+22 to 539+80	158.00	19.9	0.3		17.7
Totals for WestBound (Left) Lane		882.2	13.2	2109.6	2395.7

NOTE: Quantities shown do not include materials for entrances, side roads, and mailbox turnouts.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 924	05-00095-00-RS	UNION	5	4
PROJECT NO. RS-924 (122)			CONTRACT NO. 99277	

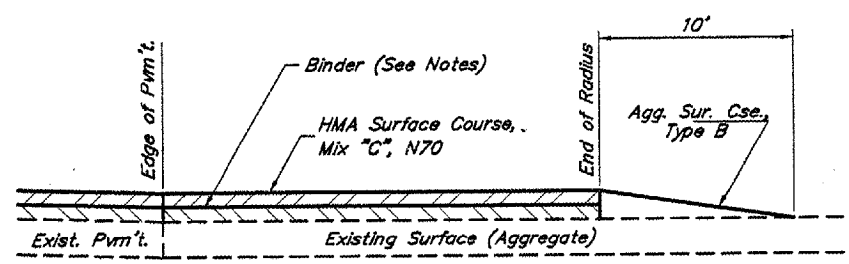
Angle of Intersection	Side Road		Private Entrance	
	Acute L	Obtuse L	Acute L	Obtuse L
90° - 80°	25'	25'	15'	15'
79° - 70°	25'	40'	15'	25'
69° - 60°	25'	60'	15'	35'
59° - 50°	20'	75'	10'	40'
49° - 40°	20'	100'	10'	60'
39° - 30°	15'	150'	10'	100'

NOTES

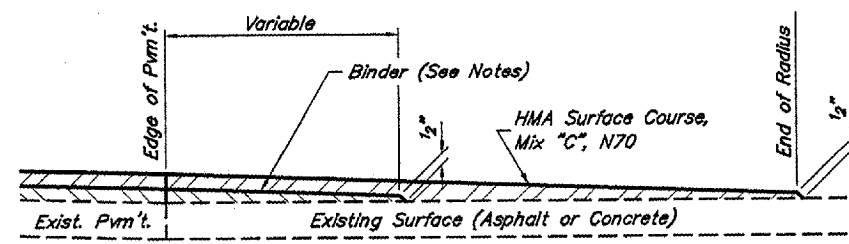
Thickness and type, of binder (if applicable) and surface course, shall be equal to the mainline resurfacing.

Where asphalt is to be placed, the existing surface shall be primed. (Rates specified elsewhere).

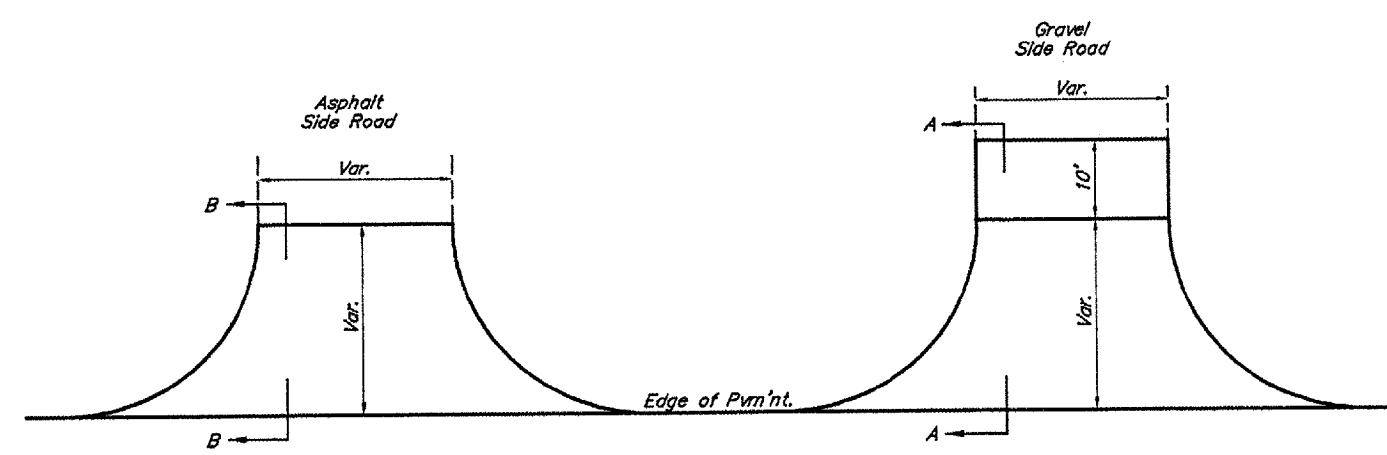
The actual number and locations, of entrances and side roads, shall be determined in the field by the Engineer.



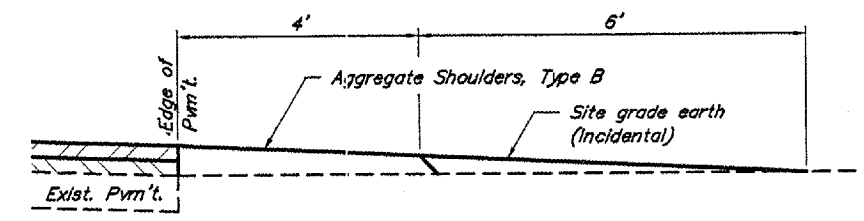
SECTION A-A SIDE ROAD - AGGREGATE
(Est. No. = 6)



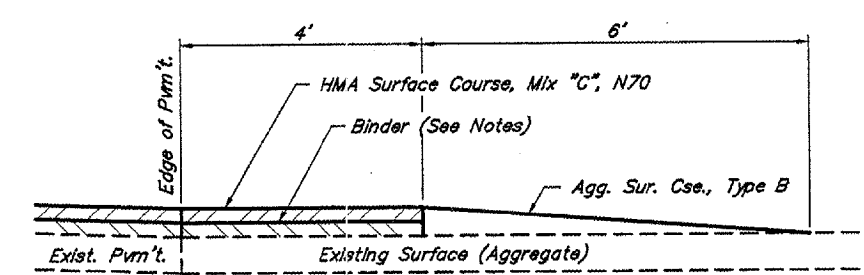
SECTION B-B SIDE ROAD - ASPHALT
(Est. No. = 7)



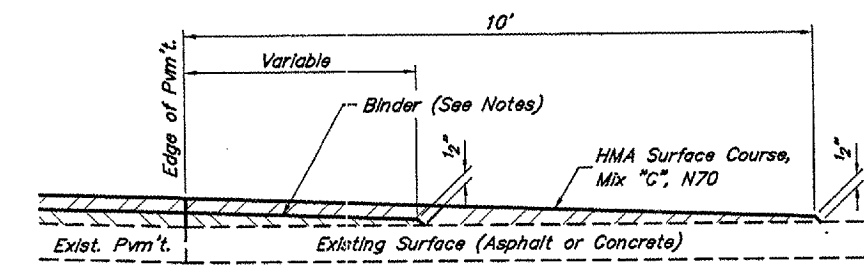
TYPICAL SIDE ROAD DETAILS



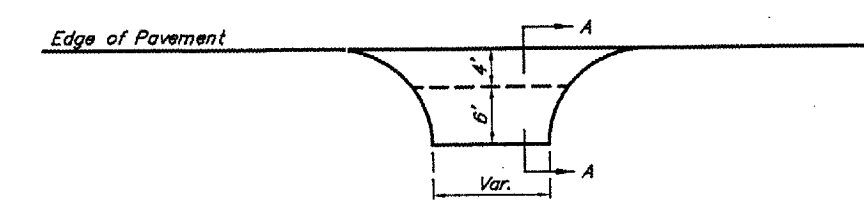
SECTION A-A FIELD ENTRANCE
(Est. No. = 13)



SECTION A-A PRIVATE ENTRANCE - AGGREGATE
(Est. No. = 44)



SECTION A-A PRIVATE ENTRANCE - ASPHALT
(Est. No. = 13)



TYPICAL ENTRANCE DETAILS

647 PE-SR 10/12/06 1546 RLM

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 924	05-00095-00-RS	UNION	5	5
PROJECT NO. RS-924 (122)			CONTRACT NO. 99277	

SCHEDULE OF PAVEMENT MARKING LINE 4" (LIN. FT.)			
Location	Centerline (Yellow Dashed)	Edge Line (White Solid)	No Passing (Yellow Solid)
Sta. 257+75 to Sta. 530+50	5,120	54,630	26,960

See schedule below for limits of "No Passing Zones".
See Standard 78001 for typical pavement markings.

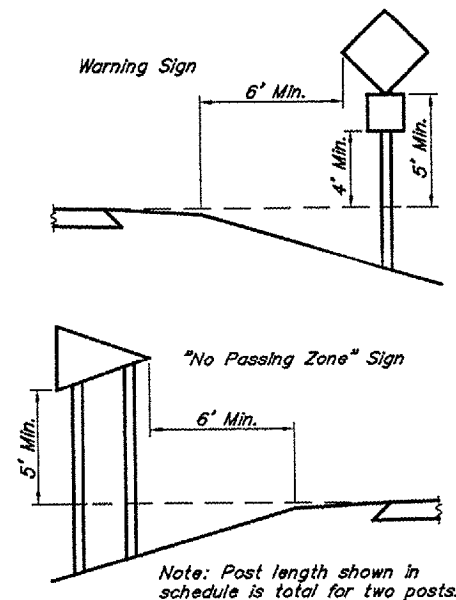
SCHEDULE OF "NO PASSING ZONES"			
EAST BOUND LANE		WEST BOUND LANE	
Location	Length	Location	Length
		Sta. 257+75 ² to Sta. 264+25 ¹	650'
Sta. 277+00 ¹ to Sta. 306+25	2,925'	Sta. 286+00 to Sta. 314+25 ¹	2,825'
Sta. 310+50 ¹ to Sta. 333+00	2,250'	Sta. 318+50 to Sta. 340+50 ¹	2,200'
Sta. 337+50 ¹ to Sta. 347+75	1,025'	Sta. 346+50 to Sta. 356+75 ¹	1,025'
Sta. 372+00 ¹ to Sta. 378+50	650'	Sta. 381+00 to Sta. 387+00 ¹	600'
Sta. 385+00 ¹ to Sta. 393+75	860'	Sta. 393+75 to Sta. 402+75 ¹	900'
Sta. 428+50 ¹ to Sta. 434+50	600'	Sta. 437+50 to Sta. 443+50 ²	600'
Sta. 456+75 ¹ to Sta. 463+50	675'	Sta. 465+75 to Sta. 473+00 ¹	675'
Sta. 472+75 ¹ to Sta. 481+75	900'	Sta. 481+75 to Sta. 490+75 ¹	900'
Sta. 488+00 ¹ to Sta. 522+00	3,400'	Sta. 497+00 to Sta. 530+50 ¹	3,300'
TOTALS	13,285'		13,675'

¹ Denotes location of "No Passing Zone" signs to be erected in accordance with Sign Schedule & Mounting Detail.

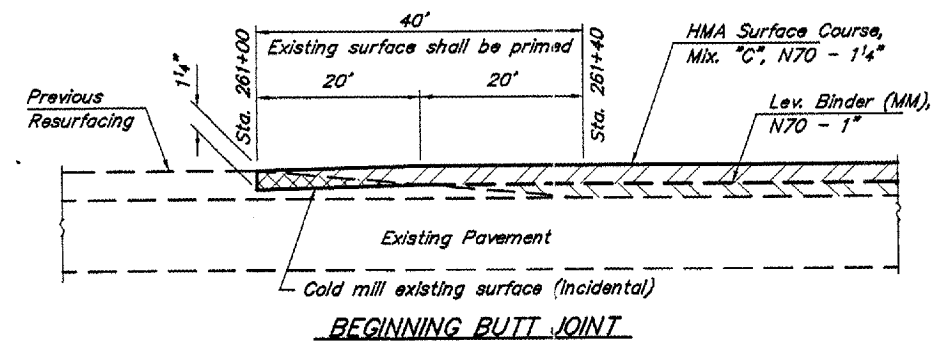
² "No Passing Zone" markings extend beyond limits of improvement due to existing alignment.

SCHEDULE OF SIGNS				
Location	Name	Signs		Post Length
		No.	Sq. Ft.	
Sta. 289+50 Lt.	SIDE ROAD 90°	W2-2	9.00	16.5
Sta. 293+25 Rt.	HILL	W7-1	9.00	17.5
	ADVISORY SPEED	W13-1(30)	4.00	-
Sta. 303+25 Lt.	HILL	W7-1	9.00	17.5
	ADVISORY SPEED	W13-1(30)	4.00	-
Sta. 315+80 Lt.	CROSS ROAD	W2-1	9.00	16.5
Sta. 400+00 Lt.	HILL	W7-1b(9)	9.00	16.5
Various (19)*	NO PASSING	W14-3	188.10	627.0
TOTALS			241.10	711.5

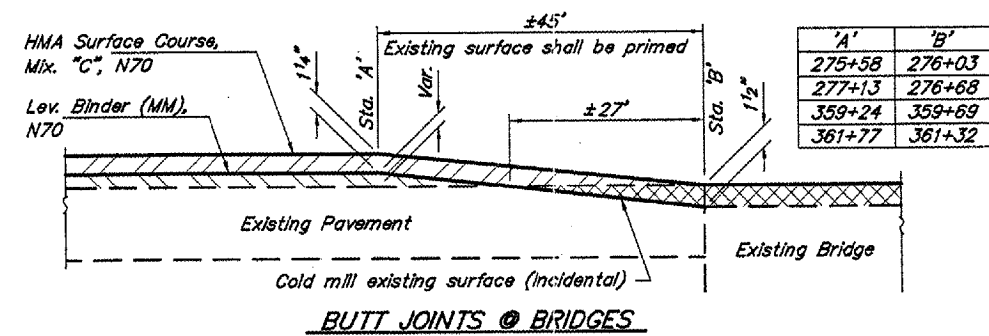
* See Schedule of "No Passing Zones" for sign locations. Each location will have one sign of 9.90 Sq. Ft. and two posts with a combined length of 33.0 Ft. Quantities shown are totals.



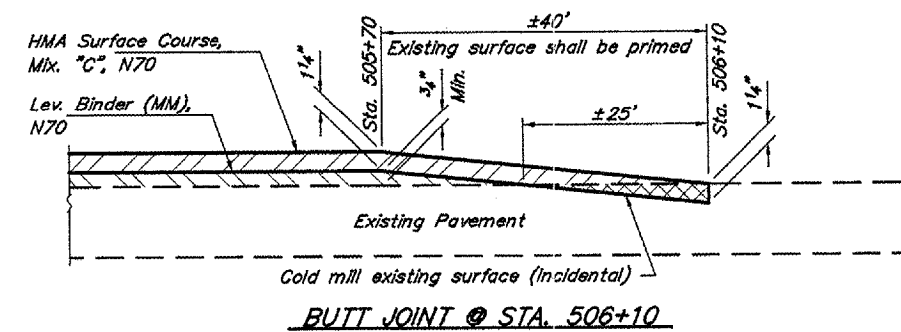
SIGN SCHEDULE & MOUNTING DETAIL



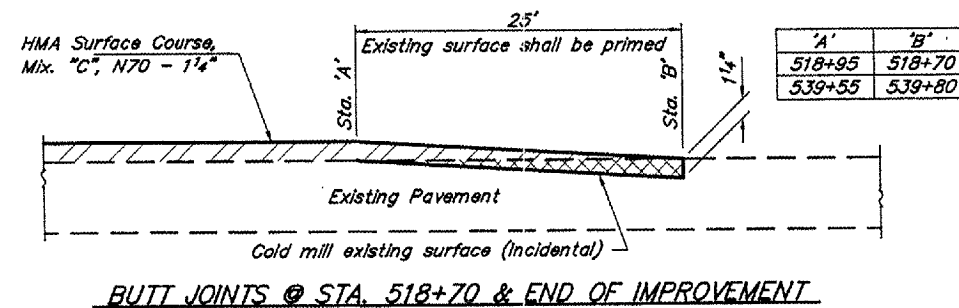
BEGINNING BUTT JOINT



BUTT JOINTS @ BRIDGES



BUTT JOINT @ STA. 506+10



BUTT JOINTS @ STA. 518+70 & END OF IMPROVEMENT