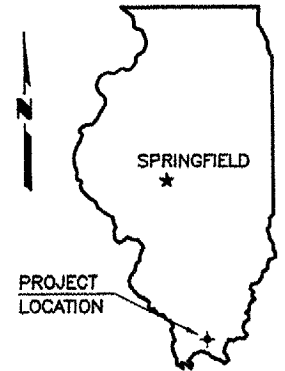


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM

FAS ROUTE 931 (REEVESVILLE ROAD)
SECTION 99-00038-01-RS
PROJECT NO. RS-931 (108)
JOB NO. C-99-535-04

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 931	99-00038-01-RS	JOHNSON	5	1
PROJECT NO. RS-931 (108)			CONTRACT NO. 99279	



SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	TOTAL
40200800*	AGGREGATE SURFACE COURSE, TYPE B	TON	80
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	960
40600300	AGGREGATE (PRIME COAT)	TON	15
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	2,820
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,020
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	2,740
48101200	AGGREGATE SHOULDERS, TYPE B	TON	2,220
67100100*	MOBILIZATION	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3,300
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	53,700
72000100	SIGN PANEL - TYPE 1	SQ FT	197.5
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	723
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	53,700
△ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	227
△ 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2

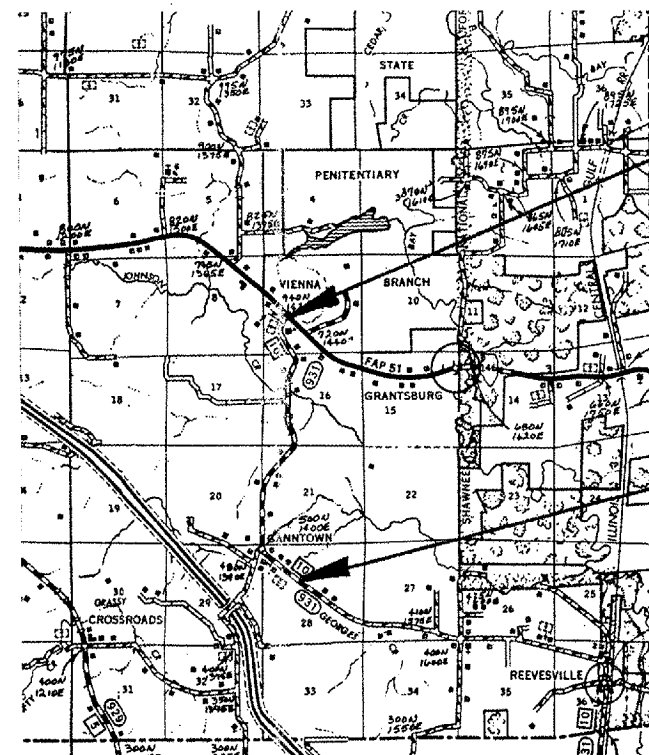
* SEE SPECIAL PROVISIONS

△ SPECIALTY ITEMS

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
 - 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

JOHNSON COUNTY



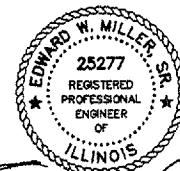
LOCATION MAP

SCALE: 1" = 2 MILES

NET LENGTH OF IMPROVEMENT = 16,500.00 FT. = 3.1250 MILES

CLASSIFICATION : COLLECTOR
ADT : 700
DESIGN SPEED : 50 MPH

JOINT UTILITY LOCATION INFORMATION
FOR EXCAVATION
J.U.L.I.E. 1-800-892-0123
CONTACT 48 HOURS BEFORE EXCAVATING



03-14-07

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

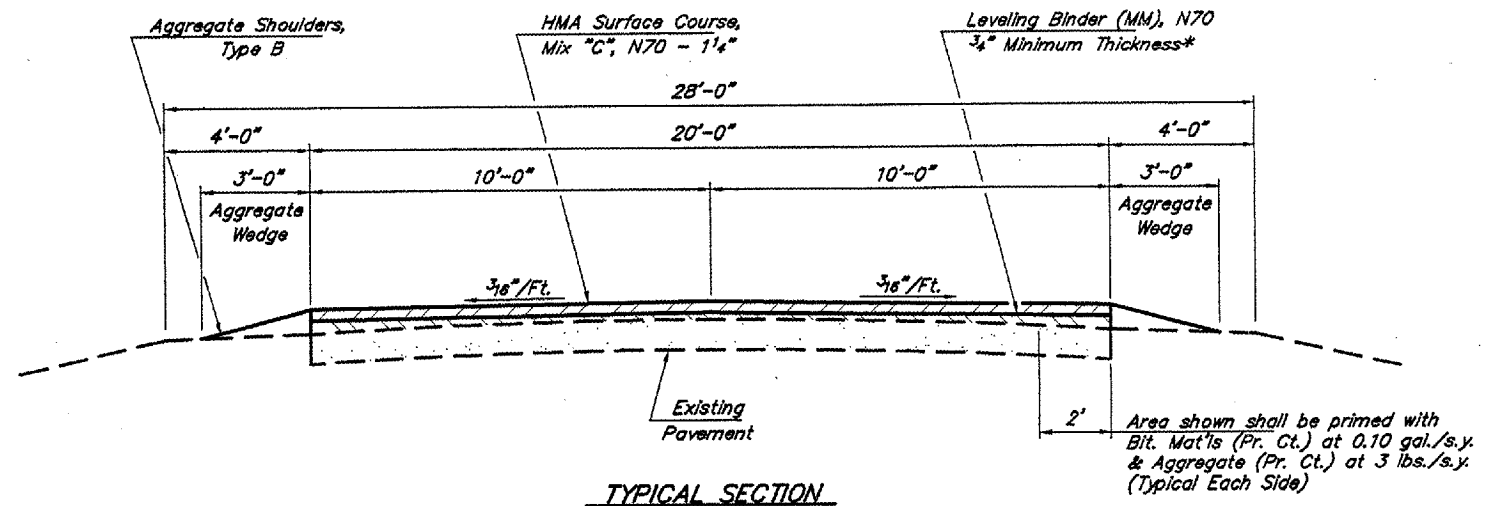
CONTRACT NO. 99279

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

ILLINOIS DEPARTMENT OF TRANSPORTATION	
Approved	3-23-07 <i>Steve Kelly</i> Johnson County, Engineer
Passed	3/29/07 <i>Dennis W. Hill</i> District 9 Engineer of Local Roads and Streets
Releasing for Bid Based on Limited Review	<i>May C. Lane</i> 4-2-07 Deputy Director of Highways, Region 5 Engineer

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 931	99-00038-01-RS	JOHNSON	5	2
PROJECT NO. RS-931 (108)			CONTRACT NO. 99279	

* NOTE: Crown and superelevation corrections shall be constructed prior to placing the 3/4" lift of Leveling Binder. If material thickness will be greater than 3" then Hot-Mix Asphalt Binder Course, IL-19.0, N70 shall be used for the correction as directed by the Engineer. (See table below)



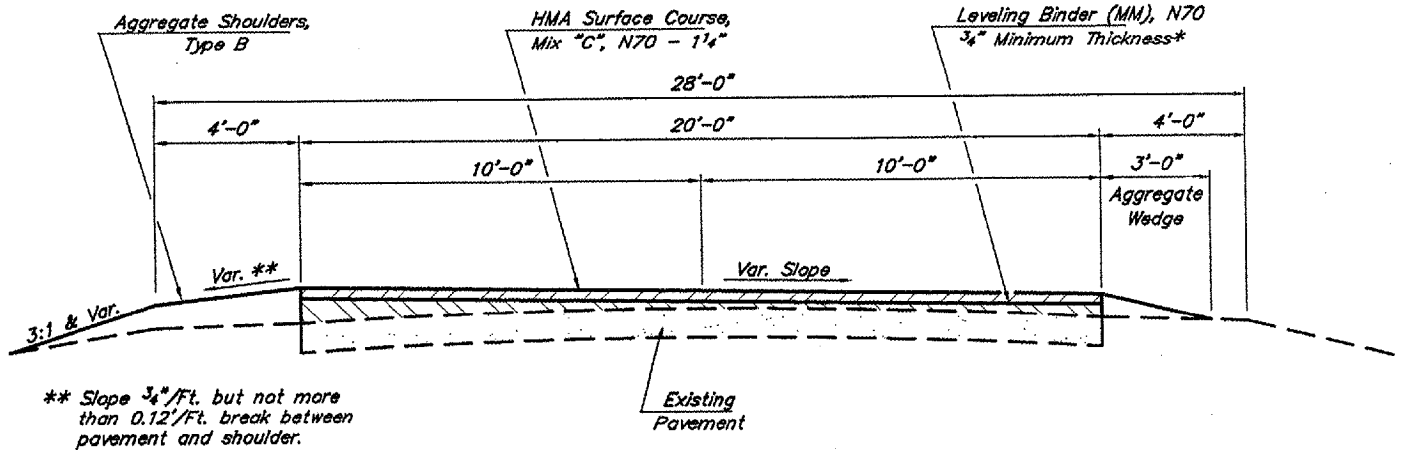
HOT-MIX ASPHALT BINDER COURSE		
Location		Tons
Rt. Sta.	7+00 - Sta. 14+00	102.4
Lt. Sta.	28+70 - Sta. 32+80	82.6
Rt. Sta.	35+30 - Sta. 41+70	171.0
Rt. Sta.	59+40 - Sta. 64+90	72.8
Lt. Sta.	67+30 - Sta. 83+10	368.5
Rt. Sta.	97+30 - Sta. 110+30	187.9
Rt. Sta.	143+20 - Sta. 144+80	20.6
TOTAL		1,005.8

NOTE: Locations and quantities are estimated and should be verified and adjusted in the field as directed by the Engineer.

STRUCTURAL DESIGN DATA

Class III Roadway
 Design Period - 20 Years
 PC 687 IBR 2.5
 SU 9 TF 0.026
 MU 4 DT 2.473

Material Coefficient
 Existing Agg. Base Course - 0.11
 Existing Oil & Chip Surface - 0.13
 Existing Bit. Mix. Complete - 0.25
 Leveling Binder - 0.33
 HMA Binder Course - 0.33
 HMA Surface Course - 0.40



** Slope 3/8"/ft. but not more than 0.12"/ft. break between pavement and shoulder.

NOTE: Section shown for right curve. Reverse for left curve.

SUPERELEVATIONS			
S.E. = 0.079'/ft.	45 MPH	S.E. = 0.078'/ft.	50 MPH
Attain Sta. 6+66 - Sta. 8+57		Attain Sta. 70+33 - Sta. 72+38	
Remove Sta. 13+71 - Sta. 15+62		Remove Sta. 80+82 - Sta. 82+87	
S.E. = 0.079'/ft.	45 MPH	S.E. = 0.053'/ft.	50 MPH
Attain Sta. 24+60 - Sta. 26+51		Attain Sta. 96+19 - Sta. 97+69	
Remove Sta. 32+47 - Sta. 34+38		Remove Sta. 110+41 - Sta. 111+90	
S.E. = 0.074'/ft.	50 MPH	S.E. = 0.079'/ft.	45 MPH
Attain Sta. 34+91 - Sta. 36+87		Attain Sta. 137+52 - Sta. 139+44	
Remove Sta. 41+03 - Sta. 42+99		Remove Sta. 144+62 - Sta. 146+53	
S.E. = 0.064'/ft.	50 MPH		
Attain Sta. 58+99 - Sta. 60+73			
Remove Sta. 65+21 - Sta. 66+94			

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 931	99-00038-01-RS	JOHNSON	5	3
PROJECT NO. RS-931 (10B)			CONTRACT NO. 99279	

RESURFACING SCHEDULE

Location Station to Station	Length (For information only) Feet	Prime Coat		Leveling Binder Machine Method Tons	Hot-Mix Asphalt Binder Course Tons	Hot-Mix Asphalt Surface Course Tons
		Bituminous Materials Gallons	Aggregate Tons			
		SOUTHBOUND (RIGHT) LANE				
0+00 to 6+66	666.00	18.9	0.3	59.1		53.6
6+66 to 15+62	896.00	20.5	0.3	57.9	102.4	72.0
15+62 to 26+40	1078.00	24.7	0.4	128.2		86.7
26+40 to 34+38	798.00	18.3	0.2	79.5		64.1
34+38 to 34+91	53.00	1.2	0.1	5.9		4.3
34+91 to 42+99	808.00	18.5	0.2	48.5	171.0	65.0
42+99 to 47+46	447.00	13.9	0.2	44.5		35.9
47+46 to 48+74	128.00	20.5	0.3			14.5
48+74 to 58+99	1025.00	27.1	0.5	72.6		82.4
58+99 to 61+82	283.00	10.1	0.1	14.6	29.6	22.7
61+82 to 62+52	70.00	12.0	0.2			8.5
62+52 to 66+94	442.00	13.8	0.2	29.5	43.2	35.5
66+94 to 70+33	339.00	7.8	0.1	56.5		27.3
70+33 to 82+87	1254.00	28.7	0.4	154.1		100.8
82+87 to 96+19	1332.00	30.5	0.5	99.8		107.1
96+19 to 111+90	1571.00	35.9	0.5	94.3	187.9	126.3
111+90 to 137+52	2562.00	58.7	0.9	156.5		206.0
137+52 to 146+53	901.00	20.6	0.3	83.4	20.6	72.5
146+53 to 165+00	1847.00	45.9	0.7	186.2		148.5
Subtotals for SouthBound (Right) Lane		427.6	6.4	1371.1	554.7	1333.7
NORTHBOUND (LEFT) LANE						
0+00 to 6+66	666.00	18.9	0.3	33.7		53.6
6+66 to 15+62	896.00	20.5	0.3	61.9		72.0
15+62 to 26+40	1078.00	24.7	0.4	85.0		86.7
26+40 to 34+38	798.00	18.3	0.2	59.5	82.6	64.1
34+38 to 34+91	53.00	1.2	0.1	3.6		4.3
34+91 to 42+99	808.00	18.5	0.2	98.3		65.0
42+99 to 47+46	447.00	13.9	0.2	31.4		35.9
47+46 to 48+74	128.00	20.5	0.3			14.5
48+74 to 58+99	1025.00	27.1	0.5	70.3		82.4
58+99 to 61+82	283.00	10.1	0.1	17.4		22.7
61+82 to 62+52	70.00	12.0	0.2			8.5
62+52 to 66+94	442.00	13.8	0.2	42.1		35.5
66+94 to 70+33	339.00	7.8	0.1	18.7	49.0	27.3
70+33 to 82+87	1254.00	28.7	0.4	61.1	316.2	100.8
82+87 to 96+19	1332.00	30.5	0.5	147.9	3.3	107.1
96+19 to 111+90	1571.00	35.9	0.5	161.0		126.3
111+90 to 137+52	2562.00	58.7	0.9	244.7		206.0
137+52 to 146+53	901.00	20.6	0.3	74.6		72.5
146+53 to 165+00	1847.00	45.9	0.7	157.4		148.5
Subtotals for NorthBound (Left) Lane		427.6	6.4	1368.6	451.1	1333.7
TOTALS		855.2	12.8	2739.7	1005.8	2667.4

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

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 931	99-00038-01-RS	JOHNSON	5	4
PROJECT NO. RS-931 (108)			CONTRACT NO. 99279	

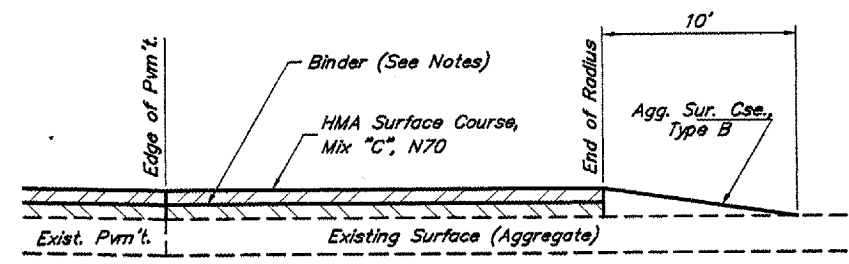
Angle of Intersection	Side Road		Private Entrance	
	Acute L.	Obtuse L.	Acute L.	Obtuse L.
90° - 80°	25'	25'	15'	15'
79° - 70°	25'	40'	15'	25'
69° - 60°	25'	60'	15'	35'
59° - 50°	20'	75'	10'	40'
49° - 40°	20'	100'	10'	60'
39° - 30°	15'	150'	10'	100'

NOTES

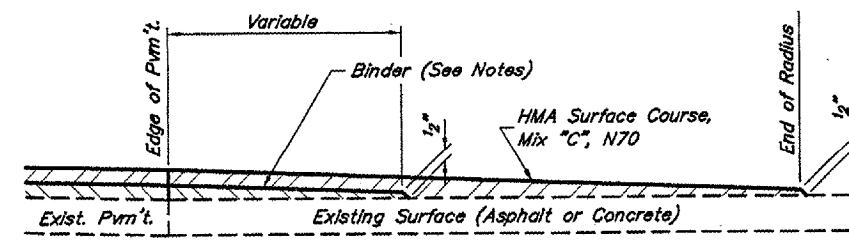
Thickness and type, of binder and surface course, shall be equal to the mainline resurfacing.

Where asphalt is to be placed, the existing surface shall be primed as follows.
 Bituminous Mat'ls (Pr. Ct.).....0.10 gal./s.y.
 Aggregate (Prime Coat)..... 3 lbs./s.y.

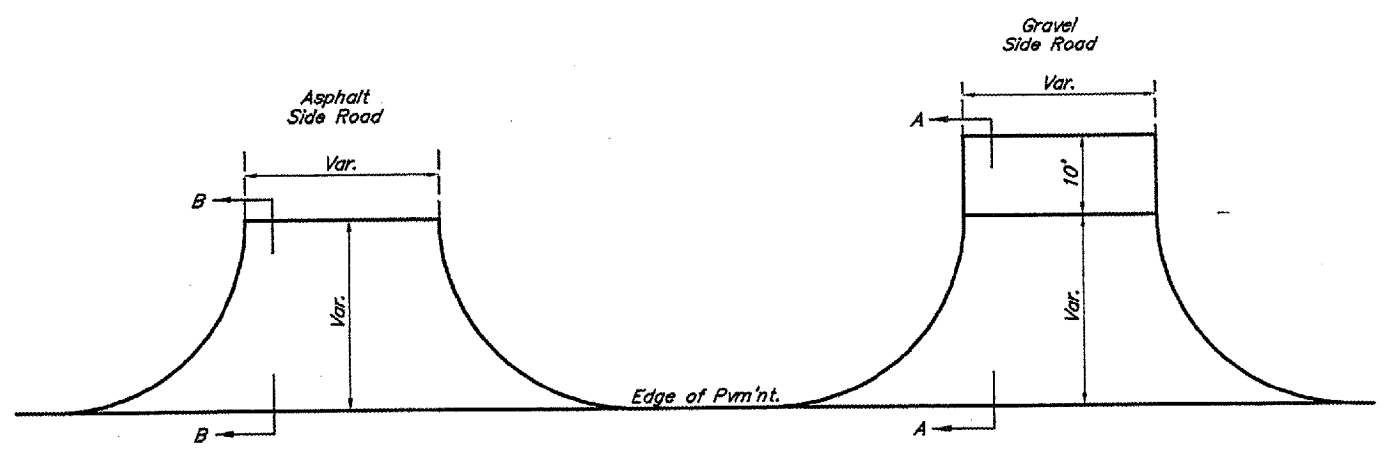
The actual number and locations, of entrances and side roads, shall be determined in the field by the Engineer.



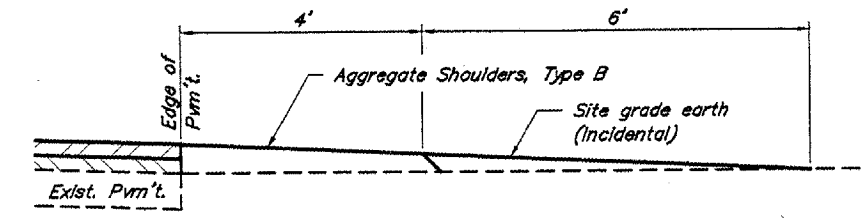
SECTION A-A SIDE ROAD - AGGREGATE
(Est. No. = 1)



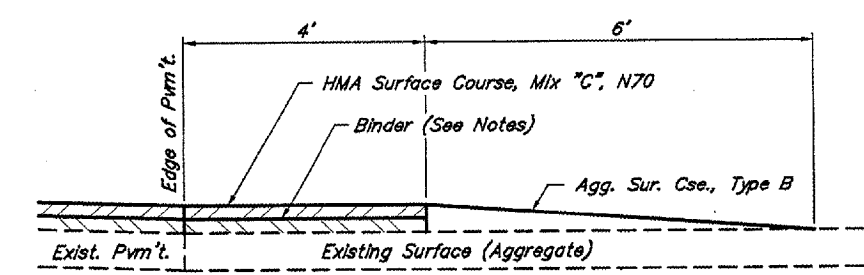
SECTION B-B SIDE ROAD - ASPHALT
(Est. No. = 2)



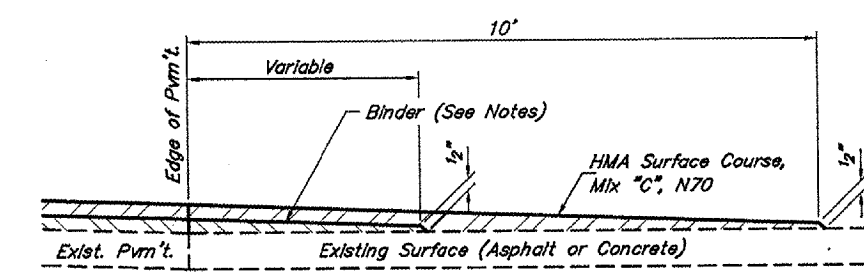
TYPICAL SIDE ROAD DETAILS



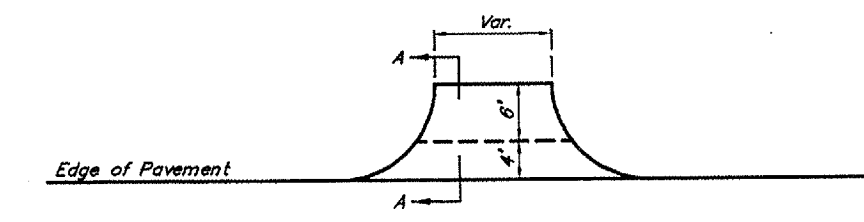
SECTION A-A FIELD ENTRANCE
(Est. No. = 10)



SECTION A-A PRIVATE ENTRANCE - AGGREGATE
(Est. No. = 33)



SECTION A-A PRIVATE ENTRANCE - ASPHALT
(Est. No. = 2)



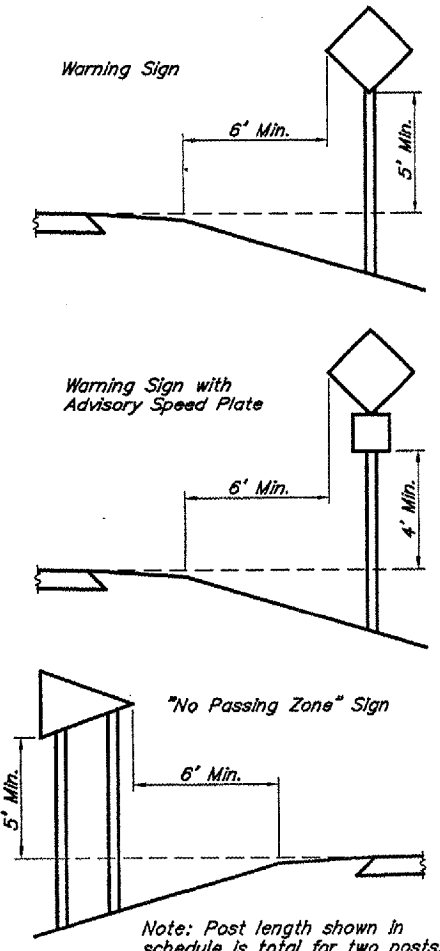
TYPICAL ENTRANCE DETAILS

557 PE-SR 03/14/07 1340 RLM

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 931	99-00038-01-RS	JOHNSON	5	5
PROJECT NO. RS-931 (108)			CONTRACT NO. 99279	

SCHEDULE OF SIGNS				
Location	Name	Signs		Post Length
		No.	Sq. Ft.	
Sta. 5+00 Rt.	CURVE	W1-2L	6.25	16.5
	ADVISORY SPEED	W13-1(45)	2.25	-
Sta. 17+25 Lt.	CURVE	W1-2R	6.25	16.5
	ADVISORY SPEED	W13-1(45)	2.25	-
Sta. 18+00 Rt.	HILL	W7-1	6.25	16.0
Sta. 23+00 Rt.	REVERSE CURVE	W1-4R	6.25	16.5
	ADVISORY SPEED	W13-1(45)	2.25	-
Sta. 44+60 Lt.	REVERSE CURVE	W1-4R	6.25	16.5
	ADVISORY SPEED	W13-1(45)	2.25	-
Sta. 58+25 Rt.	CURVE	W1-2L	6.25	16.0
Sta. 67+70 Lt.	CURVE	W1-2R	6.25	16.0
Sta. 69+80 Rt.	CURVE	W1-2R	6.25	16.0
Sta. 83+40 Lt.	CURVE	W1-2L	6.25	16.0
Sta. 87+00 Lt.	HILL	W7-1	6.25	16.0
Sta. 96+00 Rt.	CURVE	W1-2L	6.25	16.0
Sta. 112+00 Lt.	CURVE	W1-2R	6.25	16.0
Sta. 133+00 Rt.	HILL	W7-1	6.25	16.0
Sta. 134+10 Rt.	SIDE ROAD 90°	W2-2	6.25	16.0
Sta. 135+90 Rt.	CURVE	W1-2L	6.25	16.5
	ADVISORY SPEED	W13-1(45)	2.25	-
Sta. 146+10 Lt.	SIDE ROAD 90°	W2-2	6.25	16.0
Sta. 148+10 Lt.	CURVE	W1-2R	6.25	16.5
	ADVISORY SPEED	W13-1(45)	2.25	-
Various (14)*	NO PASSING	W14-3	77.70	448.0
TOTALS			197.45	723.0

* See Schedule of "No Passing Zones" for sign locations. Each location shall have one sign of 5.55 Sq. Ft. and two posts with a combined length of 32.0 Ft. Quantities shown are totals.



Note: Post length shown in schedule is total for two posts.

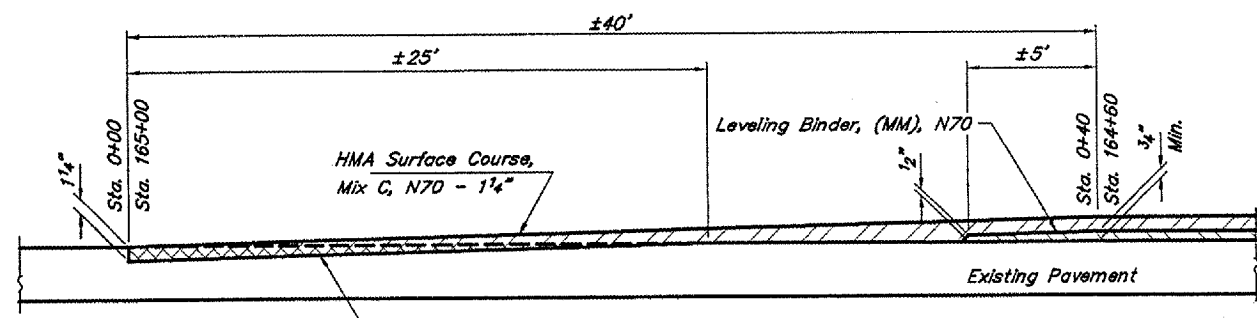
SIGN SCHEDULE & MOUNTING DETAIL

SCHEDULE OF PAVEMENT MARKING LINE 4" (LIN. FT.)			
Location	Centerline (Yellow Dashed)	Edge Line (White Solid)	No Passing (Yellow-Solid)
Sta. 0+00 to Sta. 165+00	3,000	32,800	17,900

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

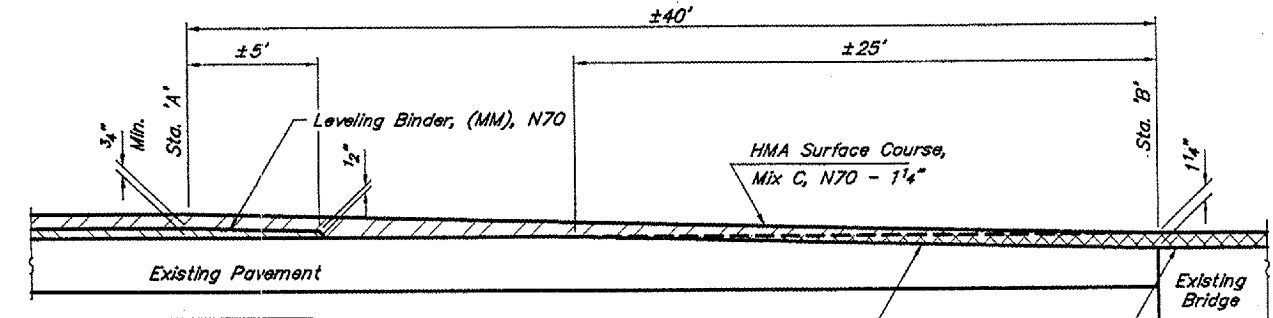
SCHEDULE OF "NO PASSING ZONES"			
WEST BOUND LANE		EAST BOUND LANE	
Location	Length	Location	Length
Sta. 3+00' to Sta. 11+50'	850'	Sta. 0+00 to Sta. 19+50'	1,950'
Sta. 16+50' to Sta. 38+00'	2,150'	Sta. 24+50 to Sta. 46+00'	2,150'
Sta. 57+00' to Sta. 61+00'	400'	Sta. 65+00 to Sta. 69+00'	400'
Sta. 68+00' to Sta. 79+50'	1,150'	Sta. 75+00 to Sta. 87+50'	1,250'
Sta. 95+00' to Sta. 105+00'	1,000'	Sta. 103+00 to Sta. 113+00'	1,000'
Sta. 114+00' to Sta. 121+50'	750'	Sta. 122+00 to Sta. 129+50'	750'
Sta. 131+00' to Sta. 151+50'	2,050'	Sta. 139+00 to Sta. 159+50'	2,050'
TOTALS		9,550'	

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



BEGINNING & ENDING BUTT JOINT

NOTE: Exist. surface to be primed with Bit. Mat'ls (Pr. Ct.) at 0.10 gal./s.y. & Aggregate (Pr. Ct.) at 3 lbs./s.y.



BRIDGE PAVING DETAIL

NOTE: Exist. surface to be primed with Bit. Mat'ls (Pr. Ct.) at 0.10 gal./s.y. & Aggregate (Pr. Ct.) at 3 lbs./s.y.

Sta. 'A'	Sta. 'B'
47+06	47+46
49+14	48+74
61+42	61+82
62+92	62+52