

ROUTE NO. FAS 322	SECTION 04-00235-02-RS	COUNTY IROQUOIS	TOTAL SHEETS 6	SHEET NO. 2
F. H. W. A. REG. 4 ILLINOIS			PROJECT RS-322(107)	
CONTRACT 87284				

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE I000		
ITEM #	CODE #	ITEM	UNIT	COUNTY	VILLAGE OF BEAVERVILLE	TOTAL QUANTITY
* 1	X0300854	RAISED JOINT REMOVAL	EACH	14.00		14.00
* 2	X3550500	BITUMINOUS BASE COURSE SUPERPAVE 8"	SQ YD	582.00		582.00
3	X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	4100.00	500.00	4600.00
4	X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, MIX "C", N50	TON	6800.00		6800.00
* 5	X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	4100.00		4100.00
6	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.00		1.00
7	Z0013825	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	45.00		45.00
8	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3100.00	275.00	3375.00
9	40600300	AGGREGATE (PRIME COAT)	TON	105.00	10.00	115.00
*10	40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	855.00	429.00	1284.00
11	40600990	TEMPORARY RAMP	SQ YD	59.00		59.00
*12	40800040	INCIDENTAL BITUMINOUS SURFACING	TON	403.00	28.00	431.00
*13	44000100	PAVEMENT REMOVAL	SQ YD	582.00		582.00
*14	48101200	AGGREGATE SHOULDERS, TYPE B	TON	7700.00		7700.00
*15	54200277	PIPE CULVERTS, CLASS C, TYPE 1, 72"	FOOT	56.00		56.00
16	54213507	END SECTIONS 72"	EACH	2.00		2.00
*17	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH		5.00	5.00
18	66700205	PERMANENT SURVEY MARKER, TYPE 1	EACH	9.00		9.00
19	67100100	MOBILIZATION	L SUM	1.00		1.00
*20	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.00		1.00
21	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	6447.00		6447.00
22	70300200	TEMPORARY PAVEMENT MARKING	FOOT	11569.00		11569.00
23	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	662.00		662.00
△ 24	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	28.80		28.80
△ 25	78000610	THERMOPLASTIC PAVEMENT MARKING - LINE 16"	FOOT	172.00		172.00
△ 26	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	132.00		132.00
△ 27	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	11569.00		11569.00

* SEE SPECIAL PROVISIONS
△ SPECIALTY ITEMS

GENERAL NOTES

THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE TYPICAL X-SECTION IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE.

THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

FOR ALL SHORT TERM PAVEMENT MARKINGS ON FINAL SURFACES (I.E., MAINLINE PAVEMENT), ONLY TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUALITIES:

GRANULAR MATERIALS	2.05	TONS/CU YD
BITUMINOUS MATERIALS PRIME COAT	0.05	GAL/SQ YD OR 0.35 GAL/SQ YD
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
BITUMINOUS CONCRETE SURFACE COURSE	112	LBS/SQ YD/INCH
BITUMINOUS CONCRETE BINDER COURSE	112	LBS/SQ YD/INCH
LEVELING BINDER (MACHINE METHOD)	112	LBS/SQ YD/INCH
SHORT TERM PAVEMENT MARKING	4	FT/40 FT OF APPLICATION
PAINT PAVEMENT MARKING - LINE 4"	10	FT/40 FT OF APPLICATION

DESIGN DATA

STA 6+00 TO STA 201+58.8 TYPICAL SECTION
STA 218+76 TO STA 226+63 TYPICAL SECTION

FLEXIBLE PAVEMENT DESIGN FOR
CLASS III LOCAL ROAD (FAPLHI 5-8-132)

DESIGN PERIOD D. P. = 20 YEARS

DESIGN YEAR = 2026 PV=88% SU=7% MU=5%

DESIGN ADT = 858 IBR = 3.0 TRAFFIC FACTOR = 0.2319

D_t = 4.15

DESIGN DATA

STA 201+58.8 TO STA 218+76 TYPICAL SECTION

COMPOSITE PAVEMENT DESIGN FOR
CLASS III LOCAL ROAD

DESIGN PERIOD D. P. = 20 YEARS

DESIGN YEAR = 2026 PV=88% SU=7% MU=5%

DESIGN ADT = 1373 IBR = 3.0 TRAFFIC FACTOR = 0.8414

D_e = 4.5 D_c = 7.06 D_s = -0.063

SECTION NOTES

THE PROPOSED IMPROVEMENT CONSISTS OF A BITUMINOUS SURFACE COURSE INCLUDING LEVELING BINDER, BINDER, SHOULDER STONE AND ALL WORK NECESSARY TO COMPLETE THE PROJECT ACCORDING TO THE PLANS AND SPECIFICATION.

THIS HIGHWAY WAS CONSTRUCTED UNDER SECTIONS 77-00235-00-AS, 80-00235-00-FP, 80-00243-00-RS, AND 74-MFT

MIXTURE TABLE

	SUPERPAVE BINDER	SUPERPAVE LEVEL BINDER	SUPERPAVE SURFACE	SUPERPAVE BASE COURSE
PG GRADE	PG64-22	PG64-22	PG64-22	PG64-22
MAX % RAP ALLOWABLE**	25%	25%	15%	25%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL-19.0	IL-9.5	IL-12.5 or IL 9.5	IL-19.0
FRICTION AGGREGATE			MIXTURE C	
PLANT CONTROL LIMITS	CLASS I	CLASS I	CLASS I	CLASS I

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.