

SUMMARY OF QUANTITIES			FUND CODE	1000
ITEM #	CODE #	ITEM	UNIT	QUANTITY
* 1	Z0055300	RUMBLE STRIP	EACH	6
* 2	20200100	EARTH EXCAVATION	CU YD	150
* 3	20400800	FURNISHED EXCAVATION	CU YD	70
4	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4,675
5	40600300	AGGREGATE (PRIME COAT)	TON	165
* 6	40600625	LEVEL BINDER (MACHINE METHOD), N50	TON	4,800
* 7	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,840
8	40600990	TEMPORARY RAMP	SQ YD	311
* 9	40603310	HOT-MIX ASPHALT SURFACE COURSE MIX 'C' N50	TON	4,200
* 10	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	206
* 11	44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2'	SQ YD	2,230
* 12	44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	201
* 13	44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	61
* 14	44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	32
* 15	44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	9,475
* 16	48101200	AGGREGATE SHOULDERS, TYPE B	TON	3,400
* 17	48203100	HOT-MIX ASPHALT SHOULDERS	TON	310
Δ* 18	63100167	TRAFFIC BARRIER TERMINAL TYPE 1, (SPECIAL) TANGENT	EACH	4
19	63200310	GUARDRAIL REMOVAL	FOOT	150
20	67100100	MOBILIZATION	L SUM	1
* 21	70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1
22	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3,450
23	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	9,972
24	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	575
Δ 25	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,836
Δ 26	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	80
Δ 27	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5,136
* 28Δ	78201000	TERMINAL MARKER -DIRECT APPLIED	EACH	4

\* SEE SPECIAL PROVISIONS

### GENERAL NOTES

THE THICKNESS OF HOT-MIX ASPHALT 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 HOT-MIX ASPHALT LIFTS.

FOR ALL 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
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
HOT MIX ASPHALT SURFACE COURSE	112	LBS/SQ YD/INCH
LEVELING BINDER (MACHINE METHOD)	112	LBS/SQ YD/INCH
BINDER COURSE, IL. 19.0, N50	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

### STRUCTURAL OVERLAY

FLEXIBLE PAVEMENT OVERLAY DESIGN FOR CLASS III ROAD USING EQUATION 37-8.07

DESIGN PERIOD D. P. = 20 YEARS

DESIGN YEAR = 2019    PV=88% SU=7% MU=5%

DESIGN ADT = 887    IBV = 3.00    TRAFFIC FACTOR = 0.27

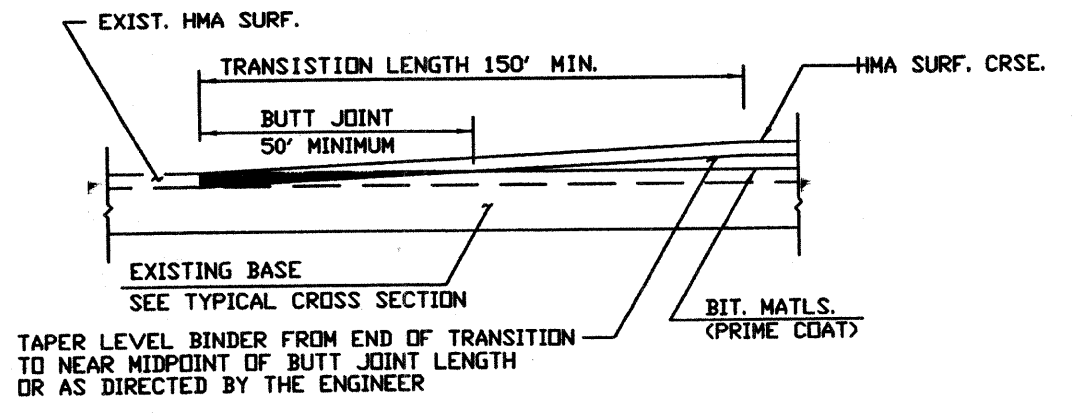
$SN_F = 3.40$      $SN_{Fe} = 2.00$      $D_o = 3.50$

### MIXTURE TABLE

	HMA BINDER (PATCHES)	HMA LEVEL BINDER	HMA SURFACE	HMA SHOULDERS (BOTTOM 6")
PG GRADE**	PG64-22	PG64-22	PG64-22	PG58-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	2.0% @ N30
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 12.5 OR IL 9.5	IL 19.0
FRICTION AGGREGATE			MIXTURE C	
DENSITY TEST METHOD	CORES	GROWTH CURVE	GROWTH CURVE	CORES*

- \* MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.
- \*\* WHEN MORE THAN 20% RAP IS USED, A SOFTER ASPHALT BINDER (PG58-22) MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

### HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



### SECTION NOTES

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

COUNTY HIGHWAY 37 WAS CONSTRUCTED UNDER SECTIONS (91B-15D, 91-15D, 91-15D W & RS, FAI 46, 38-1)