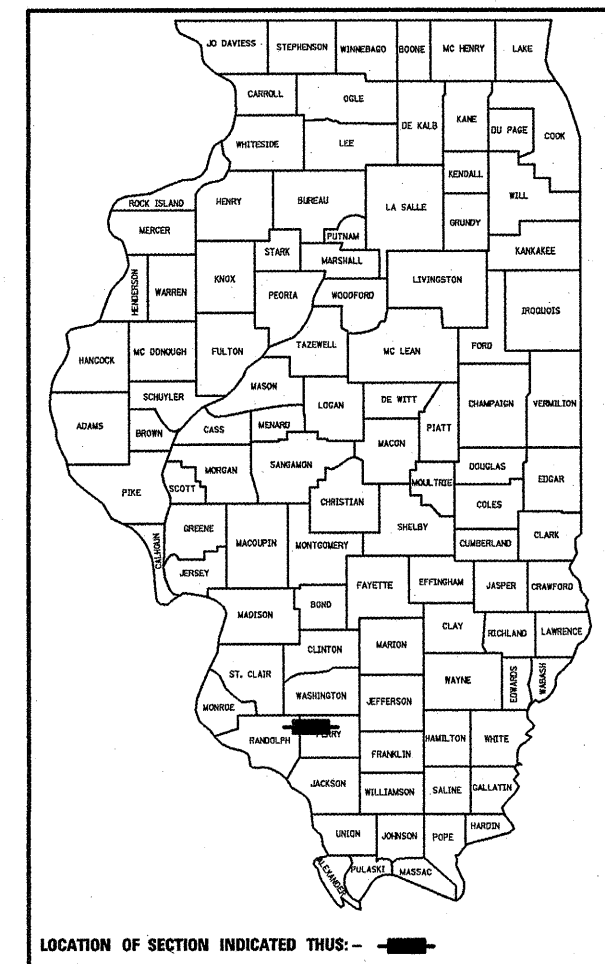


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

D-99-043-06



**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 103 (IL 13)
SECTION 102RS-4
PERRY COUNTY
C-99-053-06

Proj. No. ACF-0103(066)

FOR INDEX OF SHEETS, SEE SHEET NO. 3

ADT (2008): 3143

PV= 2910

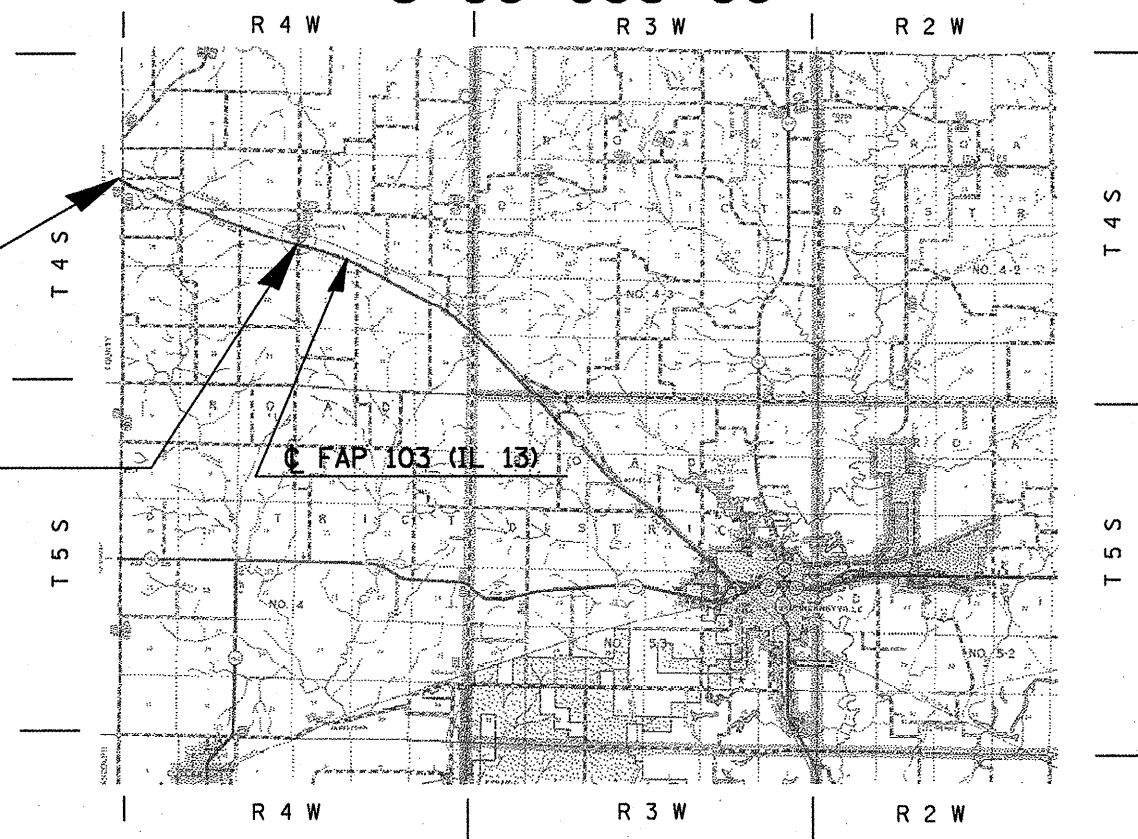
SU= 150

MU= 83

TR. = 7%

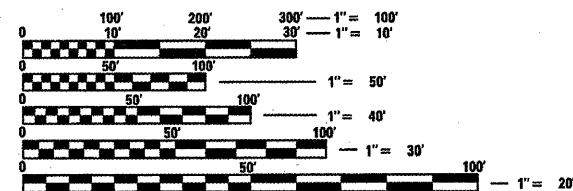
PROPOSED PROJECT BEGINS
STA. 334+93 (BUTT JOINT)

PROPOSED PROJECT ENDS
STA. 510+15 (BUTT JOINT)



LENGTH OF PROJECT = 17,522 FT. = 3.318 MILES

TOWNSHIP: SWANWICK



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 98984

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *March 14, 2008*
Man Chami
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9, 2008
Eric E. Harm
ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: CHARLES STEIN (618) 351-5210
ENG. TECHNICIAN: KATHI MCCORD (618) 351-5216

CONTRACT NO. 98984

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	10285-4	PEBBY	13	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = 2/13/2008
FILE NAME = c:\prowise\98984\103\10285-4\2.dwg
USER NAME = mcorcoran

Prepared By: *Joe Zampieri*
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *Joe G*
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Karin Nelson*
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *Kevin Grammel*
DISTRICT OPERATIONS ENGINEER

Examined By: *Joseph Lugin*
DISTRICT CONSTRUCTION ENGINEER

Examined By: *Bruce W. Beckler*
DISTRICT MATERIALS ENGINEER

Examined By: *Joe Trotter*
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *Samuel Danton*
ASSISTANT REGIONAL ENGINEER

Approved By: *Mary C. Kamei*
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

March 14 2008
DATE

SIGNATURE BLOCK

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	3
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS	FED. AID PROJECT	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE BLOCK
3	INDEX OF SHEETS, HIGHWAY STANDARDS, AND STRUCTURE RATINGS
4	GENERAL NOTES; MIXTURE REQUIREMENTS
5	SUMMARY OF QUANTITIES
6 - 7	TYPICAL SECTIONS
8	SCHEDULES; MAINLINE RESURFACING, PAVEMENT MARKING
9	SCHEDULES; SIDEROAD AND ENTRANCE RESURFACING
10	LOCATION MAP FOR IL 13 FROM PERRY COUNTY LINE TO SWANWICK
11	DETAILS; BEGINNING AND ENDING BUTT JOINT OF PROJECT
12	STANDARD DETAILS - ROUGH GROOVED SURFACE SIGN; UNEVEN LANE SIGN
13	STANDARD DETAILS - TEMPORARY BITUMINOUS CONCRETE TRANSITIONS

STRUCTURE RATINGS

STRUCTURE NO.	INV. RATING	OPER. RATING	SUF. RATING
IL 13 - PERRY CO.			
073-2005	22.9	38.1	96.6

HIGHWAY STANDARDS

442201-03	701901
701011-01	780001-01
701301-02	
701306-01	
701311-02	
701336-04	

PLOT DATE = 2/15/2006
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = mason@dr

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES EXCEPT FOR QC/QA OF BITUMINOUS MIXTURES:

ALL HOT-MIX ASPHALT.....2.016 TONS/CU.YD.
 ALL AGGREGATE.....2.05 TONS/CU.YD.
 BITUMINOUS MATERIALS (PRIME COAT)
 ON PAVEMENT.....0.09 GALS./SQ. YD.
 ON AGG. SURFACE.....0.32 GALS./SQ. YD.
 AGGREGATE (PRIME COAT).....0.0015 TONS/SQ. YD.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS WAS BASED ON ONE APPLICATION EACH FOR THE PRIME COAT, SURFACE COURSE AND LEVELING BINDER.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS, THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED BITUMINOUS MATS AT 300 FT. INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2" TALL OF A DESIGN APPROVED BY THE ENGINEER AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, BITUMINOUS RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTER-LINE EDGE IS EXPOSED TO TRAFFIC.

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR SHALL COMPLETE ALL PATCHING PRIOR TO THE BITUMINOUS SURFACE REMOVAL.

RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.

THE SAWED JOINTS AT THE BEGINNING AND END SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N90.

HOT-MIX ASPHALT MIXTURE DESIGNS SHALL BE PREPARED AS DIRECTED BELOW:

FOR IL. 13 MAINLINE SURFACE COURSE:

Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix. C, N90
AC/PG:	PG64-22
RAP % (Max.):	10
Design Air Voids:	4.0%, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm or IL-12.5 mm
Friction Aggregate:	Mixture C

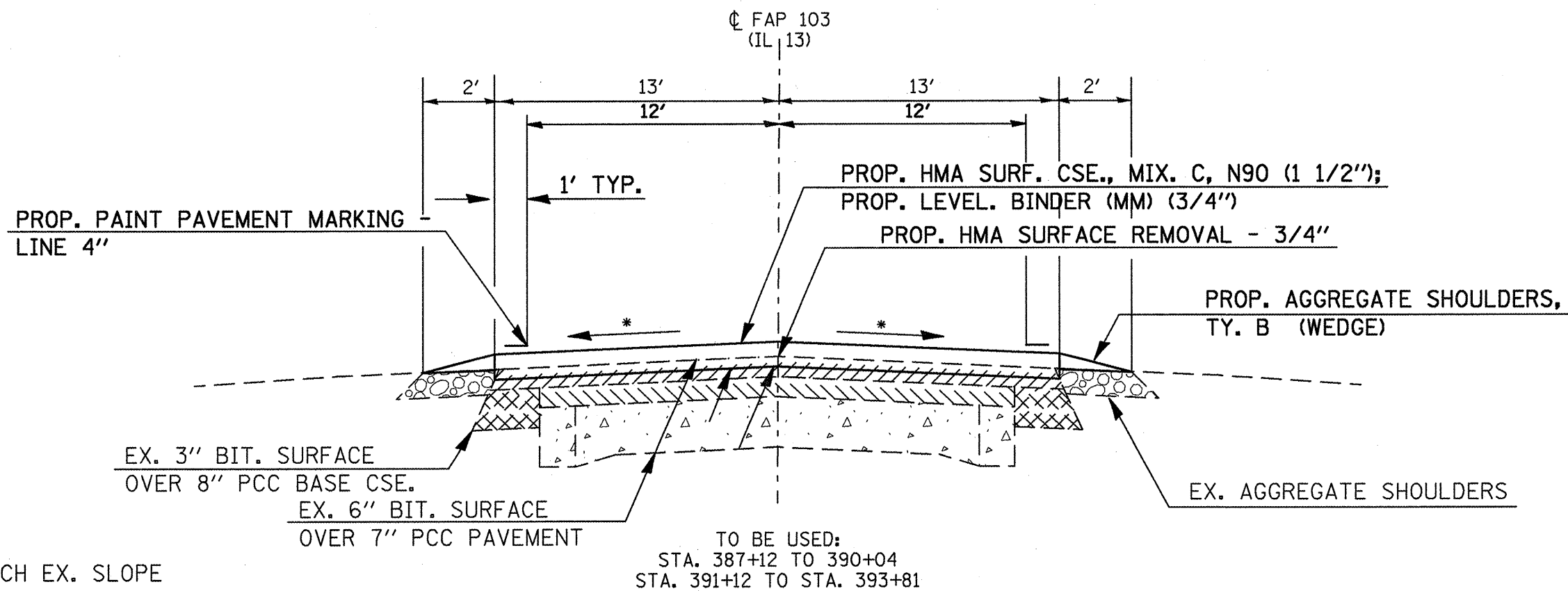
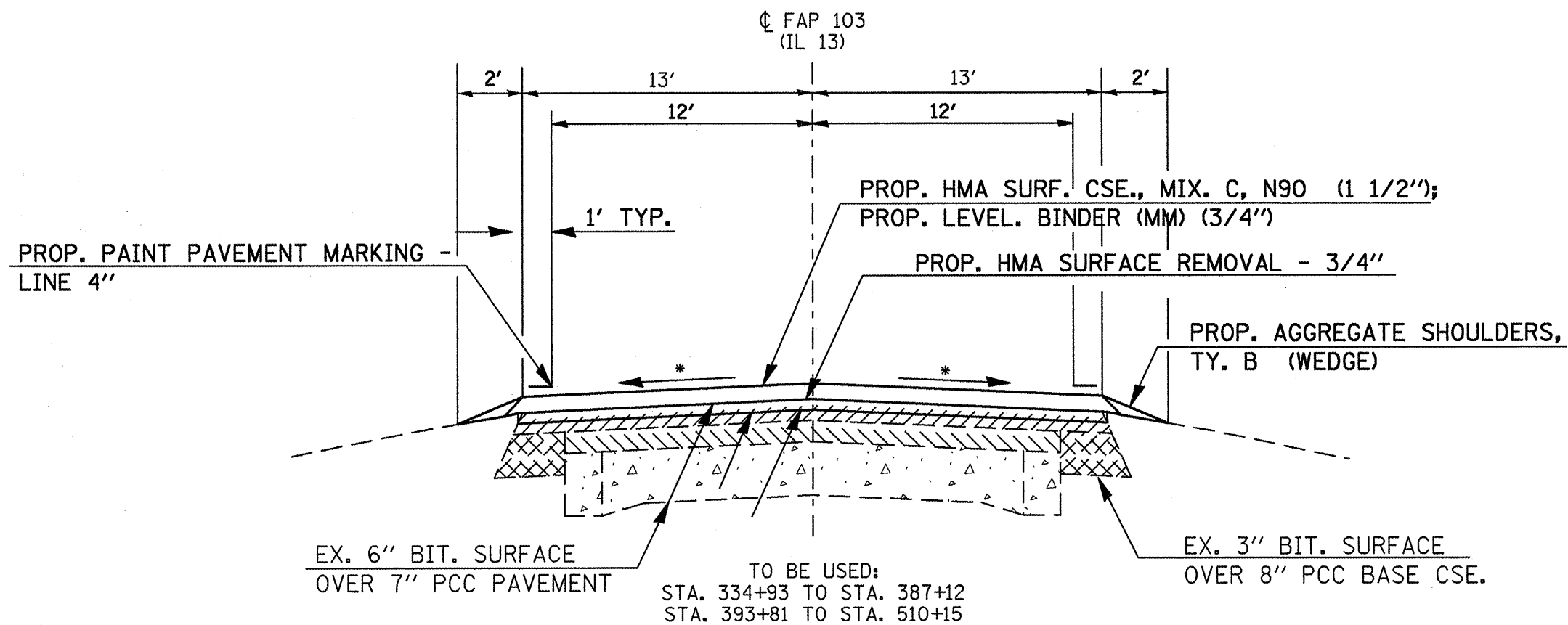
FOR IL. 13 MAINLINE LEVELING BINDER:

Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mixture C, N90
AC/PG:	PG64-22
RAP % (Max.):	10
Design Air Voids:	4.0%, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5mm or IL-12.5 mm
Friction Aggregate:	Mixture C

PATCHING REQUIREMENTS FOR CLASS D PATCHING:

Mixture Use(s):	Hot-Mix Asphalt Binder Course, N90, IL-19.0
AC/PG:	PG64-22
RAP % (Max.):	10
Design Air Voids:	4.0%, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-19.0mm
Friction Aggregate:	None

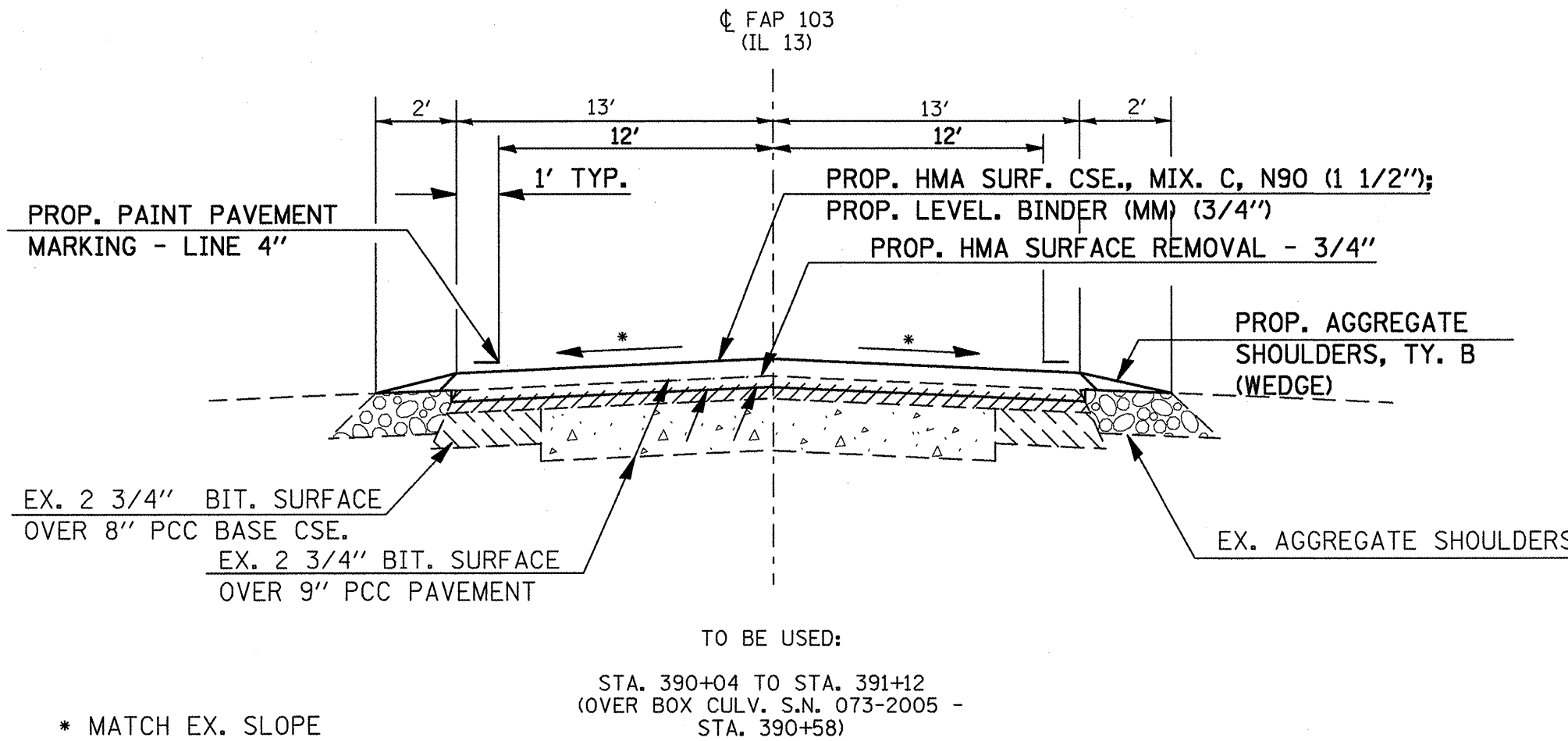
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



* MATCH EX. SLOPE

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 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = mcdonald

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	7
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS		FED. AID PROJECT		



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 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = mcdonald

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	8
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT				

MAINLINE RESURFACING SCHEDULE

MAINLINE RESURFACING SCHEDULE

LOCATION STATION	STATION TO	LENGTH (FT)	ROADWAY WIDTH (FT)	ROADWAY AREA (SQ YD)	HMA SURF. REM. 3/4"	HMA SURF. REM. - BUTT JT.	TEMPORARY RAMP	HMA SURF. CSE. MIX C. N90	LEVELING BINDER (MM) N90	BIT. MAT. (PRIME COAT)	AGG. (PRIME COAT)	AGG. SHOULDER TYPE B
					(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(TON)	(GAL)	0	(TON)
STA. 334+93 TO STA. 510+15												
	334+93.00 TO 335+23.00	30.0	26.0	87		87	9	7	4	16	0.3	0.8
	335+23.00 TO 387+12.00	5,189.0	26.0	14,990	14,990			1,262	630	2,698	45.0	130.8
S. N. 073-2005	387+12.00 TO 393+81.00	669.0	26.0	1,933	1,933			163	81	348	5.8	16.9
	393+81.00 TO 509+85.00	11,604.0	26.0	33,523	33,523			2,822	1,408	6,034	100.6	292.5
	509+85.00 TO 510+15.00	30.0	26.0	87		87	9	7	4	16	0.3	0.8
TOTALS		17522.0			50,446	174	18	4,261	2,127	9,111	151.9	441.7

PAVEMENT MARKING SCHEDULE

STATION TO STATION	PAINT PAVEMENT MARKING			TEMPORARY	NOTES
	4 INCH WHITE	4 INCH YELLOW	4 INCH SKIP-DASH	4 INCH	
	FOOT	FOOT	FOOT	FOOT	
Station 334+93 To Sta. 510+15					
LT. & RT. 334+93.0 TO 510+15.0	34532		4381	38913	EDGELINE
RT. 334+93.0 TO 339+00.0		407		407	
LT. 341+00.0 TO 346+60.0		560		560	
SUB-TOTALS	34532	967	4381	39880	
TOTALS		39880		39880	

PLOT DATE = 3/13/2008
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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = mcdonald

F.A.C. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	9
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

SIDEROAD RESURFACING SCHEDULE

STATION LT. or RT.	SIDE ROAD NAME	SURFACE TYPE	WIDTH AT EDGE OF PAVEMENT	DISTANCE TO END OF SURFACING	WIDTH AT END OF SURFACING	SURFACE AREA	HMA SURFACE REMOVAL-BUTT JOINT	BITUMINOUS MATERIAL PRIME COAT	AGGREGATE PRIME COAT	INCIDENTAL HMA SURFACE
			(FT)	(FT)	(FT)	(SQ YD)	(SQ YD)	(GAL)	(TON)	(TON)
Rt. 338+26.5	Coulterville Rd.	Bit.	224	15	113	281	281	25.3	0.42	24
Rt. 396+36	Columbine Rd.	Bit.	55	15	26	68	68	6.1	0.10	6
Rt. 453+37	Snapdragon Rd.	Oil & Chip	60	15	27	73		6.5	0.11	12
Rt. 482+52	Rejoice	Bit.	70	15	30	83	83	7.5	0.13	7
Lt. 396+36	Columbine Rd.	Bit.	51	15	21	60	60	5.4	0.09	5
Lt. 425+39	Buttercup Rd.	Agg.	52	15	19	59		5.3	0.09	10
TOTALS:							492	56	0.94	64

ENTRANCES RESURFACING SCHEDULE

NUMBER	ENTRANCE TYPE	SURFACE TYPE	WIDTH AT EDGE OF PAVEMENT	DISTANCE TO END OF SURFACING	WIDTH AT END OF SURFACING	SURFACE AREA	HMA SURFACE REMOVAL-BUTT JOINT	BITUMINOUS MATERIAL PRIME COAT	AGGREGATE PRIME COAT	INCIDENTAL HMA SURFACE	AGGREGATE WEDGE*
			(FT)	(FT)	(FT)	(SQ YD)	(SQ YD)	(GAL)	(TON)	(TON)	(TON)
29	PRIVATE ENTRANCE	AGGREGATE	20	4	12	258		82.5	0.4	2.41	0.15
1	PRIVATE ENTRANCE	BITUMINOUS	20	4	12	9	9	0.8	0.01	0.06	
1	COMMERCIAL ENT	AGGREGATE	30	4	25	13		4.3	0.02	0.08	0.32
TOTALS:							9	88	0.4	3	0.47

* AGGREGATE WEDGE QUANTITY TO BE INCLUDED IN COST OF AGGREGATE SHOULDER, TY. B.

PLOT DATE = 2/13/2008
 PLOT SCALE = 1/8"=1'-0"
 PLOT NAME = 102RS-4 / 9
 USER NAME = mboarder

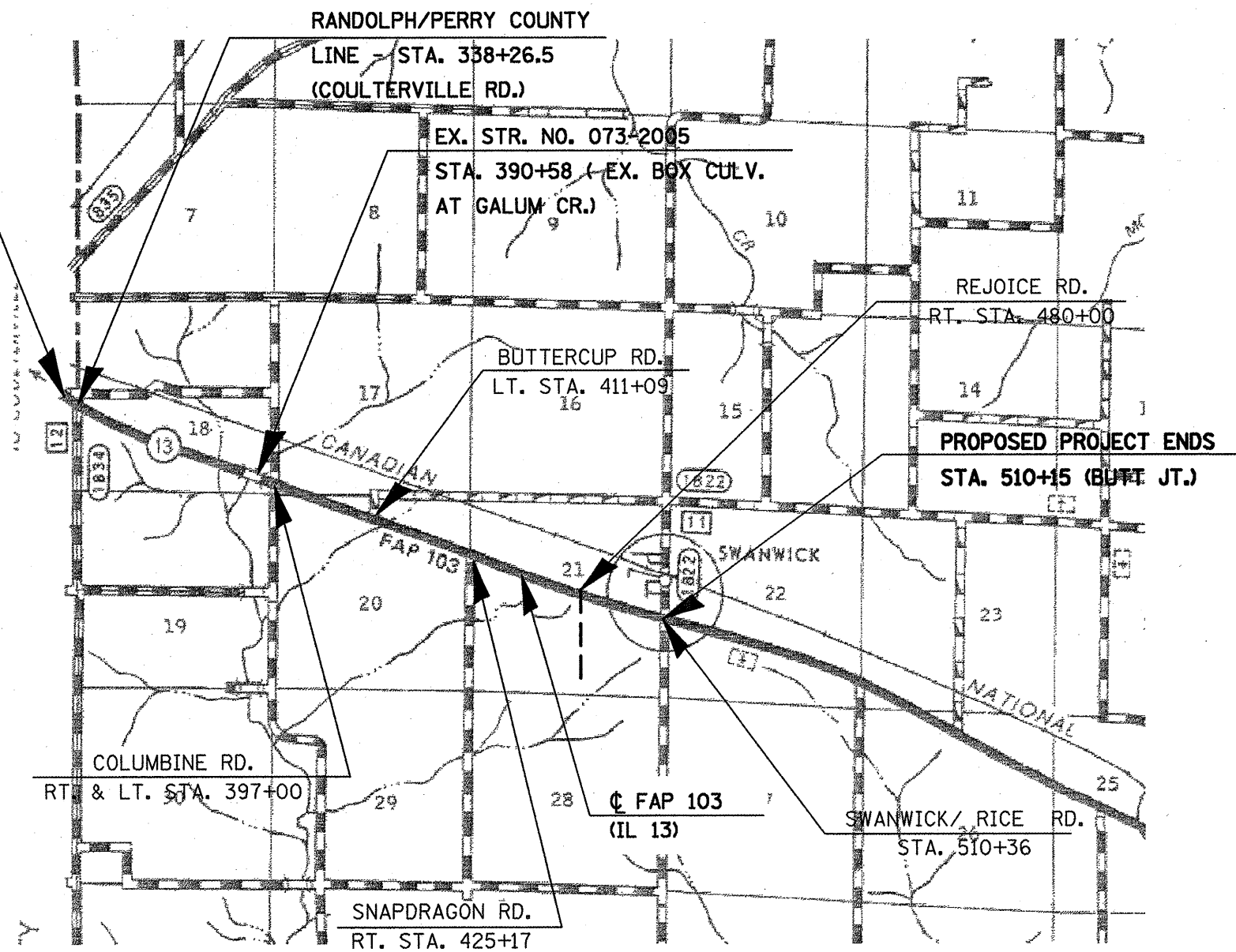
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LOCATION MAP
 FAP 103 (IL 13)
 STA. 334+93 TO STA. 510+15



NOT TO SCALE

PROPOSED PROJECT BEGINS
 STA. 334+93 (BUTT JT.)

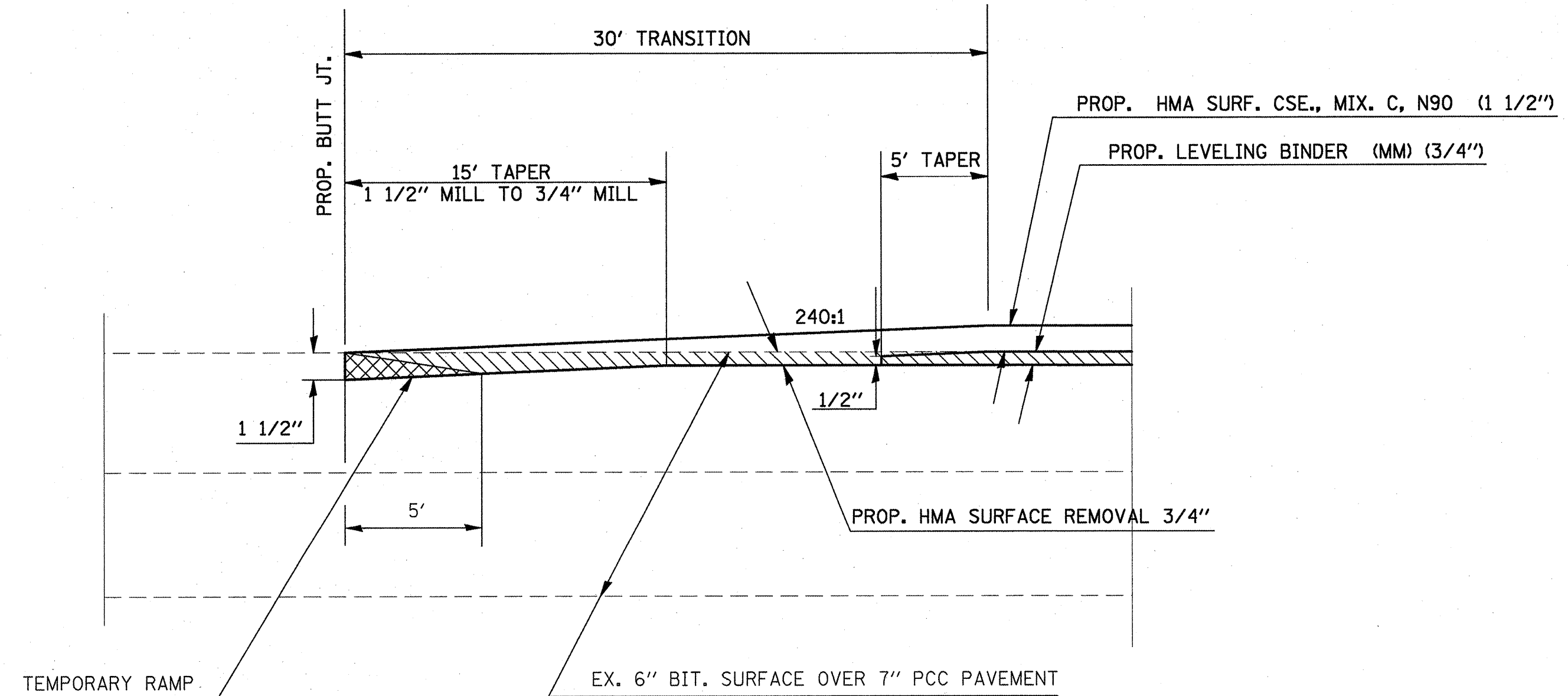


PROPOSED PROJECT ENDS
 STA. 510+15 (BUTT JT.)

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 USER NAME = ascorado

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PEBBY	13	11
STA. _____ TO STA. _____		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

BUTT JOINT DETAIL
BEGINNING AND END OF PROJECT

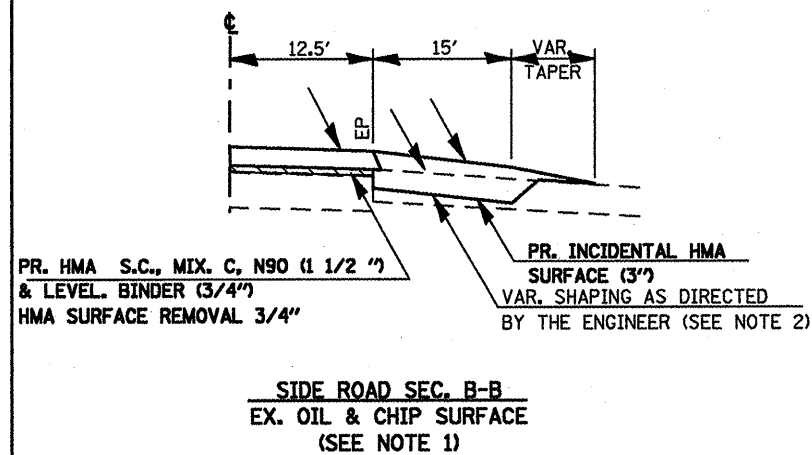
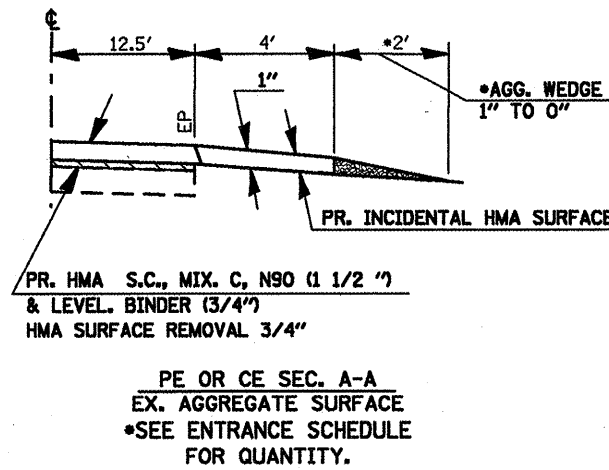
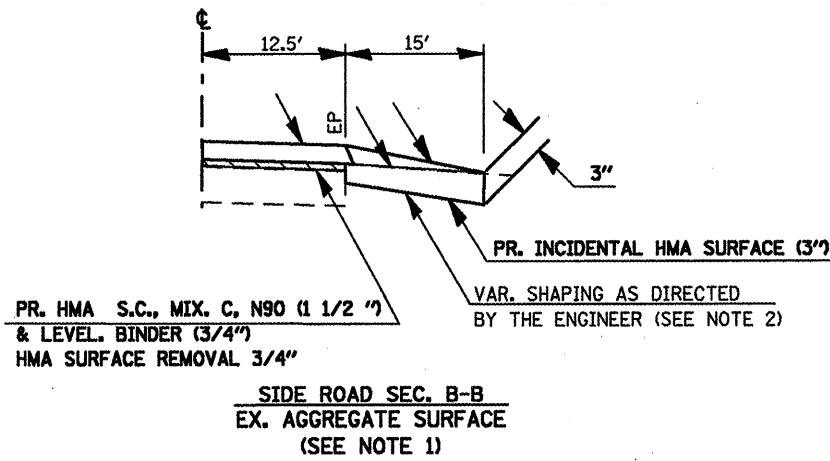
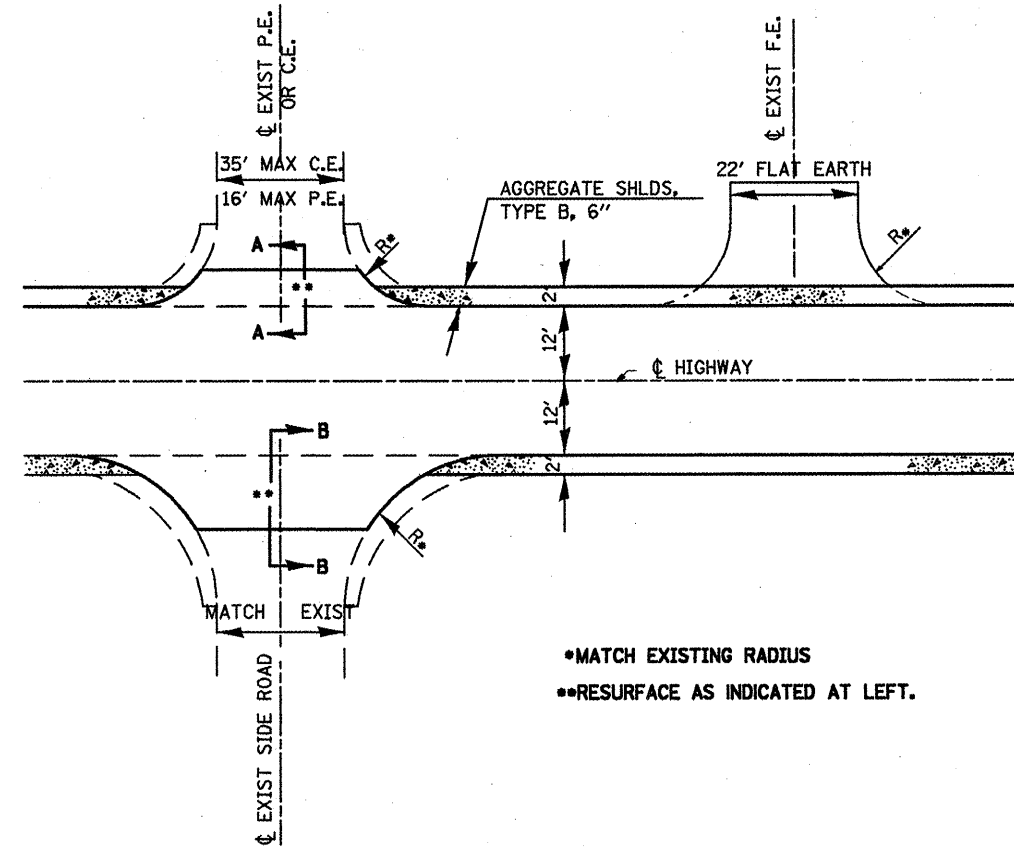
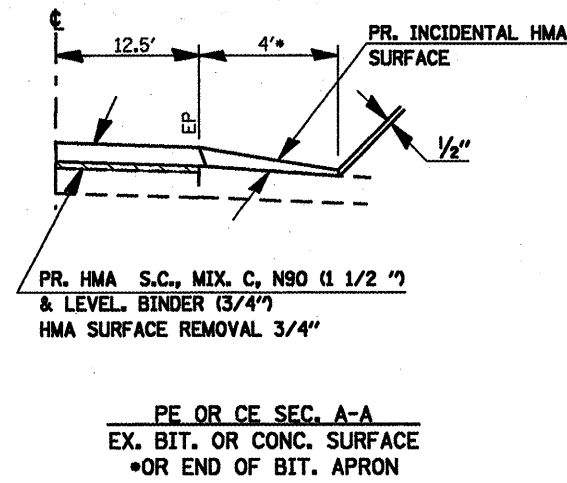
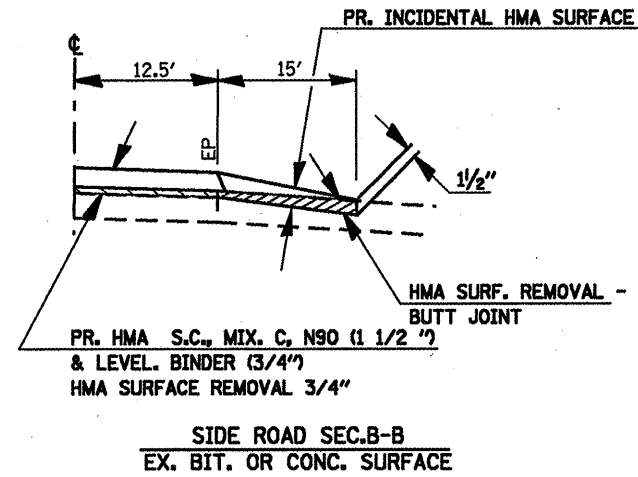


TO BE USED:
STA. 334+93 (BUTT JT.) TO STA. 335+23
STA. 509+85 TO STA. 510+15 (BUTT JT.)

PLOT DATE = 2/14/2008
FILE NAME = c:\projects\98984\98984.dwg
USER NAME = jrb

F.A.P. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	102RS-4	PERRY	13	12
STA.		TO STA.		
P.C. ROAD DIST. NO.		ALLOWS	P.C. RD PROJECT	

SIDEROAD AND ENTRANCE DETAILS



NOTES

- IF EXISTING SUBBASE IS INADEQUATE, AS DETERMINED BY THE ENGINEER, THE SIDE ROADS SHALL BE CORED OUT AND AGGREGATE SUBBASE, TYPE B SHALL BE PLACED FOR BASE. THE COST OF CORING OUT THE SIDE ROAD AND ANY AGGREGATE BASE COURSE SHALL BE PAID FOR AS SPECIFIED IN ART. 109.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. IF EXISTING SUBBASE IS DETERMINED TO BE ADEQUATE, THE PREPARATION OF THE BASE SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 406.19.
- VARIABLE SHAPING IS INCLUDED IN THE COST OF INCIDENTAL HOT-MIX ASPHALT SURFACE.

ENTRANCE SCHEDULE

TYPE	NUMBER OF ENTRANCES
P.E.	30
C.E.	1
S.R.	6

