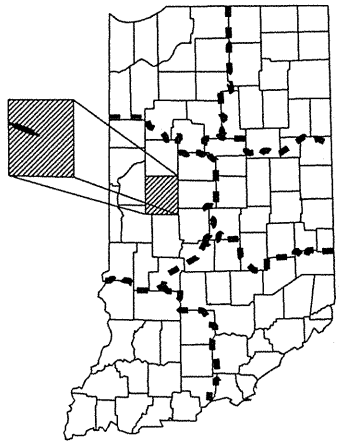
CONTRACT NO. R -28854

Des. No. 0501067

INDIANA
DEPARTMENT OF TRANSPORTATION

PROJECT DESCRIPTION

QC/QA-HMA RESURFACE



PROJECT LOCATION SHOWN BY

LAT. 40° 04' 05"N
LON. 87° 00' 31" W

PROJECT LOCATION

FROM FOUNTAIN/MONTGOMERY COUNTY LINE TO W. END OF BRIDGE OVER SUGAR CREEK
RP 25.33 - RP 35.04

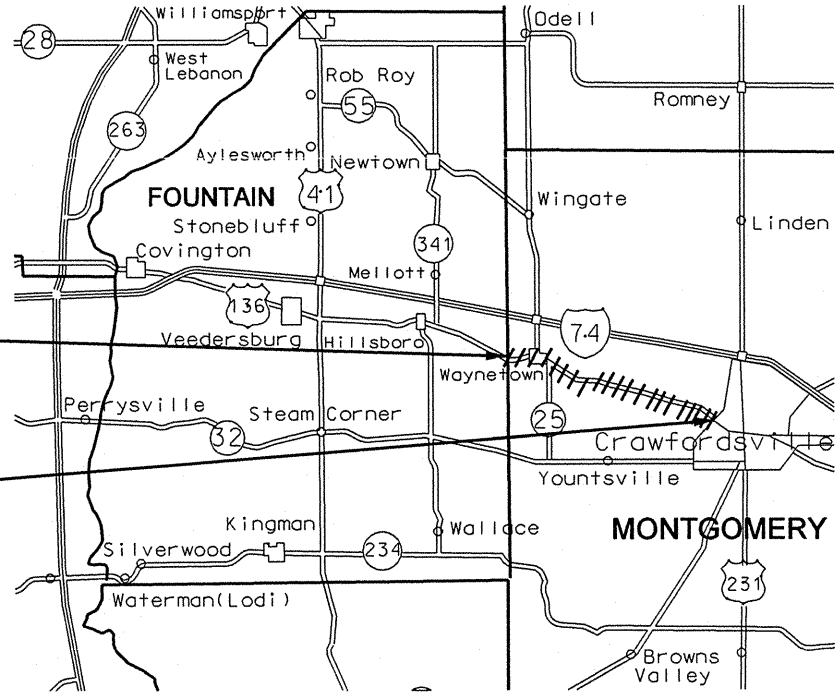
Gross Length	9.71	MI.
Net Length	9.71	MI.

Federal Road Region 5		
TRAFFIC DATA		
A.D.T. (2007)		7880 V.P.D.
A.D.T. (2027) Proj.		9810 V.P.D.
D.H.V. (2027)		9%
Directional Distribution		50%/50%
Trucks	1% D.H.V.	2% A.D.T.
DESIGN DATA		
Design Speed		55 M.P.H.
Project Design Criteria		PARTIAL 3-R
Functional Class		MAJOR COLLECTOR
Rural/Urban		RURAL
Terrain		LEVEL

PLANS PREPARED BY: Peter S. Kapetsto

DATE: 8/15/2006

PHONE NUMBER: 765-361-5246



BEGIN PROJECT
STA. 12+49

END PROJECT
STA. 523+16

ASFAHAN U. KHAN
REGISTERED
No. 19600001
STATE OF INDIANA
PROFESSIONAL ENGINEER

Date: 8/15/06

CERTIFIED BY: Asfahan ullah Khan

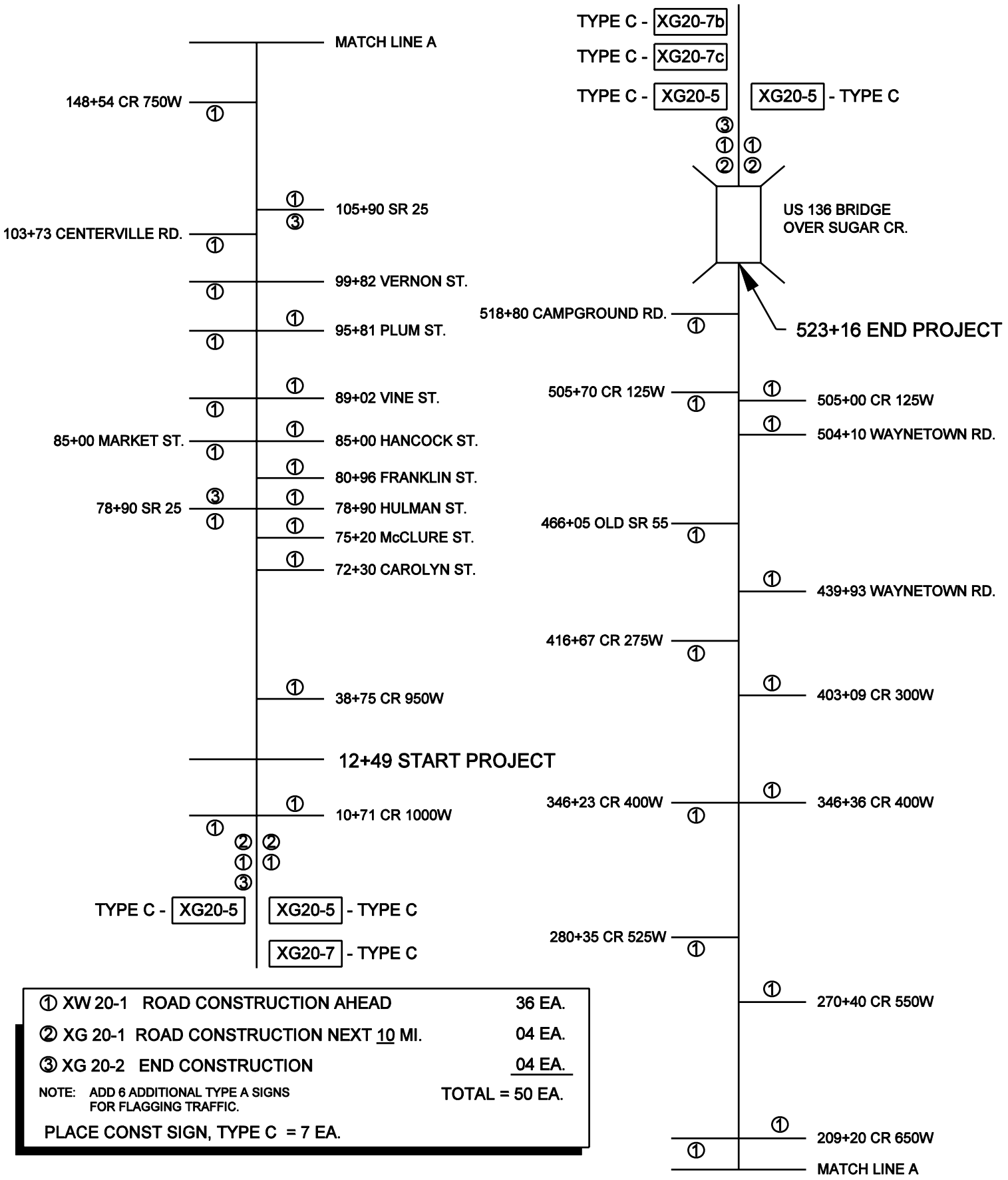
Date: 8/15/06

APPROVED FOR LETTING:

Indiana Department of Transportation
Standard Specification dated 2006
to be used with these plans.

CONSTRUCTION SIGNS

US 136



① XW 20-1	ROAD CONSTRUCTION AHEAD	36 EA.
② XG 20-1	ROAD CONSTRUCTION NEXT 10 MI.	04 EA.
③ XG 20-2	END CONSTRUCTION	04 EA.
		TOTAL = 50 EA.

NOTE: ADD 6 ADDITIONAL TYPE A SIGNS FOR FLAGGING TRAFFIC.

PLACE CONST SIGN, TYPE C = 7 EA.

NOTE: DRAWING NOT TO SCALE

CONSTRUCTION SIGN, TYPE C

US 136

SIGN NUMBER: XG20-5

SIGN MESSAGE:....."LANE RESTRICTIONS ON OR AFTER [DATE] "

POST DESIGN:.....STEEL - B OR 4" x 4" WOOD POST PERMITTED

SIGN SIZE: .....48" x 36"

SIGN COLOR: .....ORANGE BACKGROUND WITH BLACK COPY

BORDER WIDTH: .....3/4"

MARGIN WIDTH: .....1/2"

LETTER HEIGHT / SERIES-LINE 1: .....6 - SERIES C

LETTER HEIGHT / SERIES-LINE 2: .....6 - SERIES C

LETTER HEIGHT / SERIES-LINE 3: .....6 - SERIES C

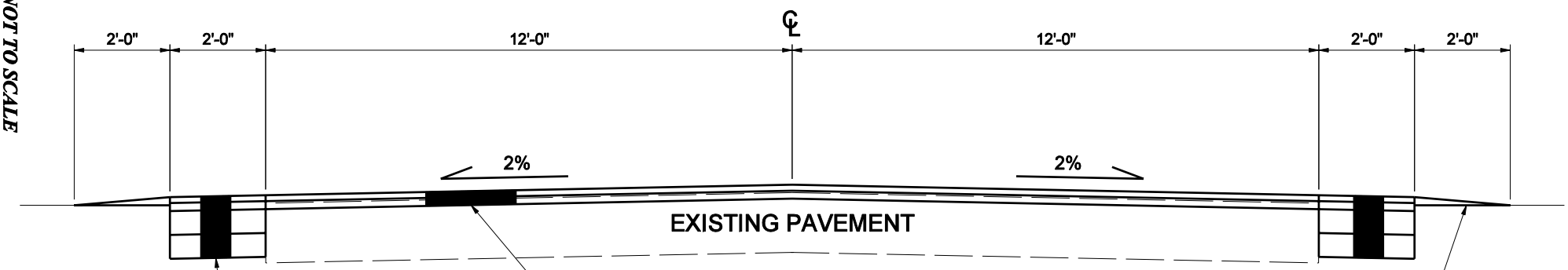
CORNER RADIUS: .....2 1/4 "

NUMBER OF POSTS: 2

NOTE: DRAWING NOT TO SCALE

TYPICAL CROSS SECTION
US 136

NOTE: DRAWING NOT TO SCALE



MILL EXISTING PAVEMENT 1.0 IN. AND OVERLAY WITH
165 LB/SYD QC/QA-HMA, 3, 64, SURFACE, 9.5mm ON
220 LB/SYD QC/QA-HMA, 3, 64, INTERMED., 12.5mm (TYP)

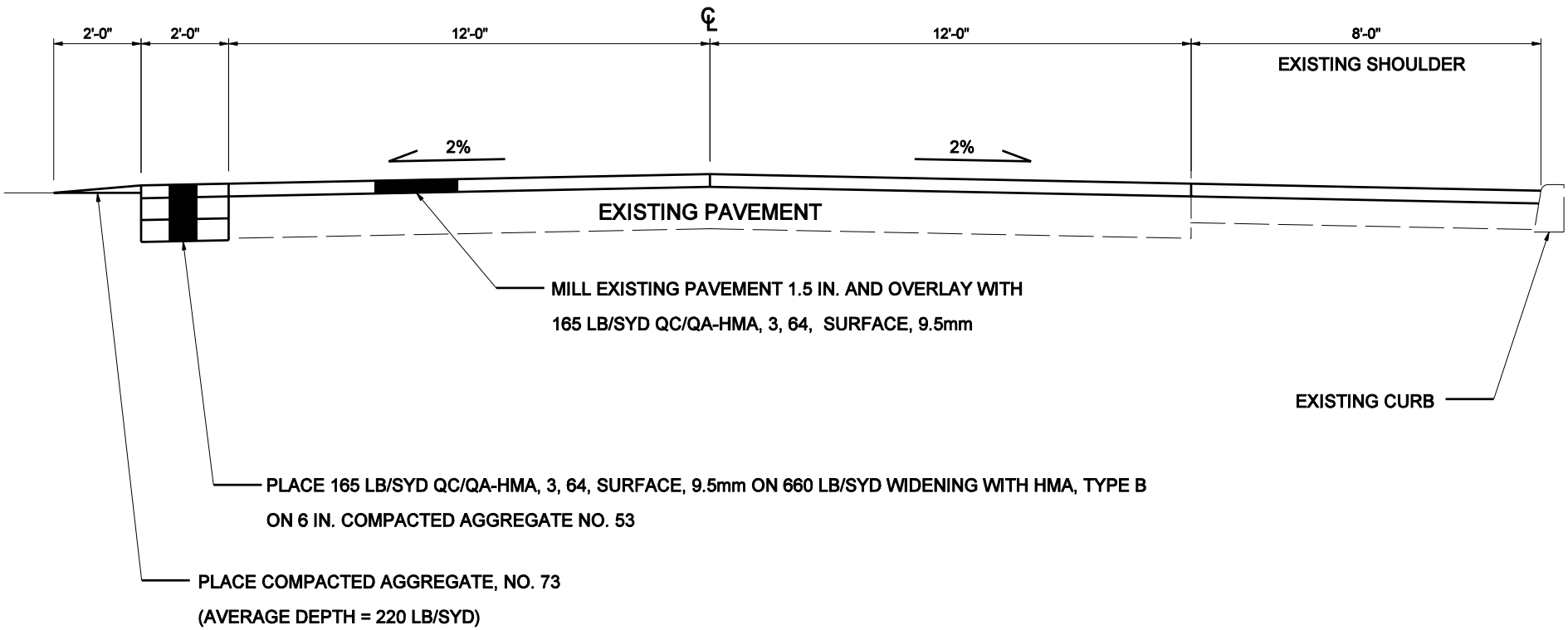
PLACE COMPACTED AGGREGATE, NO. 73
(AVERAGE DEPTH = 220 LB/SYD)
(TYP)

PLACE 165 LB/SYD QC/QA-HMA, 3, 64, SURFACE, 9.5mm ON
220 LB/SYD QC/QA-HMA, 3, 64,INTERMED., 12.5mm
ON 660 LB/SYD WIDENING WITH HMA, TYPE B
ON 6 IN. COMPACTED AGGREGATE NO.53 (TYP)

STA. 12+49 - STA. 57+73

TYPICAL CROSS SECTION
US 136

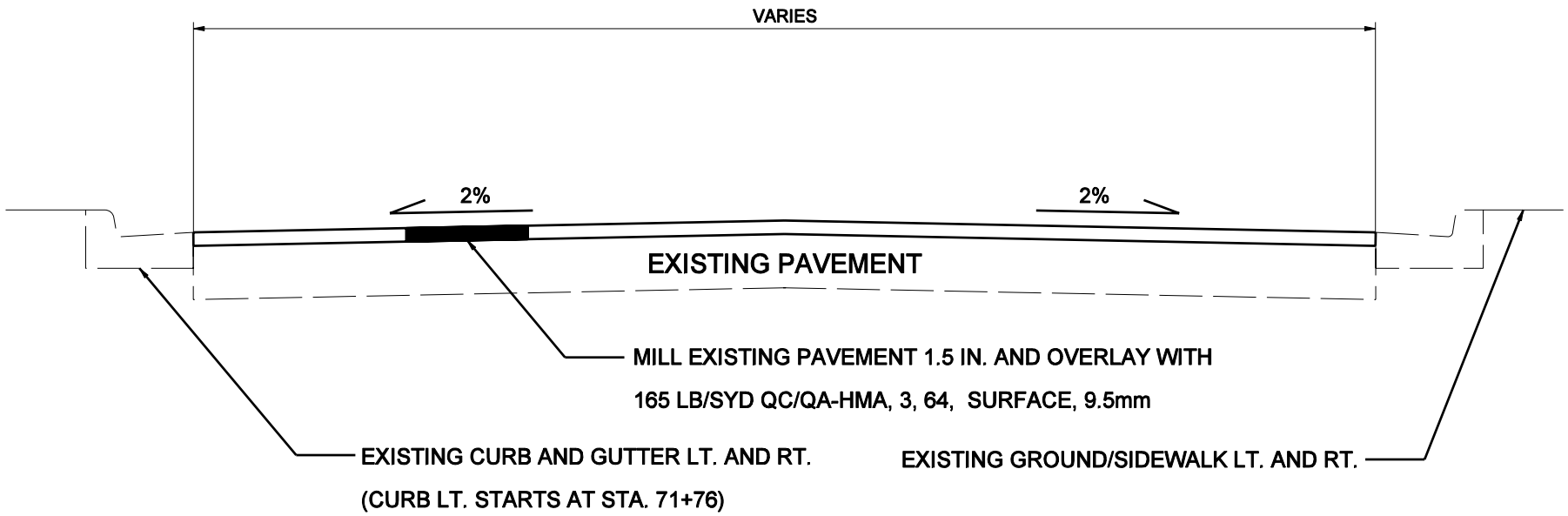
NOTE: DRAWING NOT TO SCALE



STA. 57+73 - STA. 70+50

TYPICAL CROSS SECTION
US 136

NOTE: DRAWING NOT TO SCALE



STA. 70+50 - STA. 84+79 WIDTH = 36' (AVG)

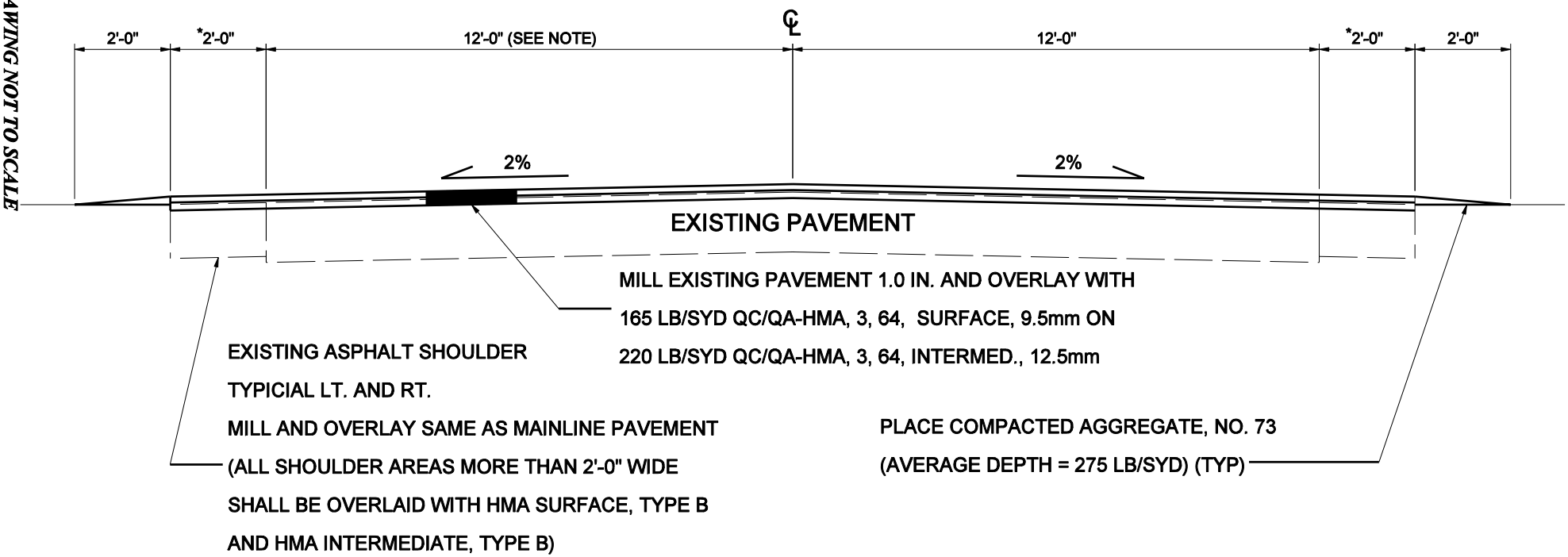
STA. 84+79 - STA. 90+41 WIDTH = 41.5' (AVG)

STA. 90+41 - STA. 103+60 WIDTH = 36' (AVG)

STA. 103+60 - STA. 107+00 WIDTH = 32' (AVG)

TYPICAL CROSS SECTION
US 136

NOTE: DRAWING NOT TO SCALE



STA. 107+00 - STA. 523+16

PAVING EXCEPTION: STA. 432+26 - STA. 434+41 (BRIDGE OVER BLACK CREEK)

*SHOULDER WIDTH VARIES AT THE FOLLOWING LOCATIONS FOR WB US 136:

STA. 428+57 - STA. 432+26 WIDTH = 12'-0"
STA. 434+41 - STA. 443+28 WIDTH = 12'-0"
STA. 443+28 - STA. 458+00 WIDTH = 8'-0"
STA. 458+00 - STA. 464+00 WIDTH VARIES FROM 8'-0" - 6'-0"
STA. 472+30 - STA. 499+00 WIDTH = 8'-0"
STA. 499+00 - STA. 500+00 WIDTH VARIES FROM 8'-0" - 2'-0"
STA. 506+00 - STA. 510+80 WIDTH = 6'-0"
STA. 510+80 - STA. 513+50 WIDTH = 3'-0"
STA. 513+50 - STA. 518+30 WIDTH = 3'-0"
STA. 519+70 - STA. 520+90 WIDTH VARIES FROM 6'-0" - 12'-0"
STA. 520+90 - STA. 523+16 WIDTH = 12'-0"

*SHOULDER WIDTH VARIES AT THE FOLLOWING LOCATIONS FOR EB US 136:

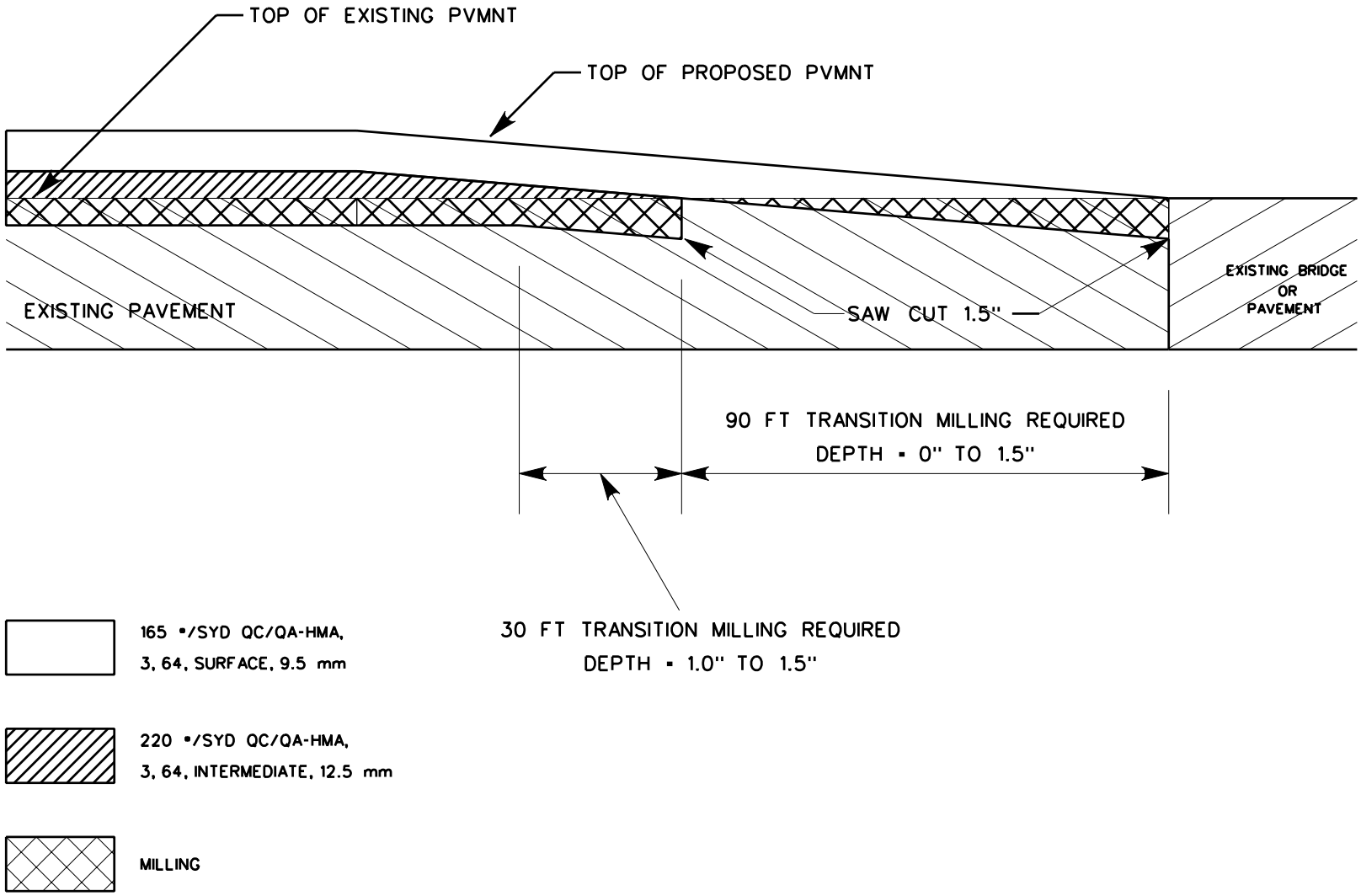
STA. 428+57 - STA. 432+26 WIDTH = 12'-0"
STA. 434+41 - STA. 443+28 WIDTH = 12'-0"
STA. 506+00 - STA. 513+50 WIDTH = 8'-0"
STA. 513+50 - STA. 516+40 WIDTH = 4'-0"
STA. 516+40 - STA. 523+16 WIDTH = 12'-0"

NOTE: WB CLIMBING LANE EXISTS FROM STA. 493+30 - STA. 520+90

STA. 493+30 - STA. 500+00 WIDTH VARIES FROM 0'-0" - 12'-0"
STA. 500+00 - STA. 519+60 WIDTH = 12'-0"
STA. 519+60 - STA. 520+90 WIDTH VARIES FROM 12'-0" - 0'-0"

TYPICAL FEATHERING SECTION
US 136

NOTE: DRAWING NOT TO SCALE



MAINLINE MILLING AND PAVING SHEET

(For Information Only)

FROM STATION		TO STATION	LENGTH (FT)	PAVING WIDTH AVG (FT)	MILLING WIDTH AVG (FT)	PAVING AREA (SYS)	SURFACE MILLING, 1.5" (SYS)	SURFACE MILLING, TRANSITION (SYS)	SURFACE MILLING, 1.0" (SYS)	QC/QA-HMA SURFACE, 9.5mm (LB/SYD)	QC/QA-HMA, INTERMEDIATE,12.5mm (LB/SYD)	QC/QA-HMA, SURFACE, 9.5mm (TON)	QC/QA-HMA, INTERMEDIATE,12.5mm (TON)
12+49		13+39	90.00	28	24	280.00		240.00		165		23.10	
13+39		13+69	30.00	28	24	93.33		80.00		165	220	7.70	10.27
13+69		56+53	4284.00	28	24	13328.00			11424.00	165	220	1099.56	1466.08
56+53		56+83	30.00	28	24	93.33		80.00		165	220	7.70	10.27
56+83		57+73	90.00	28	24	280.00		240.00		165		23.10	
57+73		70+50	1277.00	26	24	3689.11	3405.33			165		304.35	
70+50		84+79	1429.00	36	36	5716.00	5716.00			165		471.57	
84+79		90+41	562.00	41.5	41.5	2591.44	2591.44			165		213.79	
90+41		103+60	1319.00	36	36	5276.00	5276.00			165		435.27	
103+60		107+00	340.00	32	32	1208.89	1208.89			165		99.73	
107+00		107+90	90.00	28	28	280.00		280.00		165		23.10	
107+90		108+20	30.00	28	28	93.33		93.33		165	220	7.70	10.27
108+20		428+57	32037.00	28	28	99670.67			99670.67	165	220	8222.83	10963.77
428+57		431+06	249.00	24	24	664.00			664.00	165	220	54.78	73.04
431+06		431+36	30.00	24	24	80.00		80.00		165	220	6.60	8.80
431+36		432+26	90.00	24	24	240.00		240.00		165		19.80	
432+26		434+41	215.00	PAVING EXCEPTION (BRIDGE)									
434+41		435+31	90.00	24	24	240.00		240.00		165		19.80	
435+31		435+61	30.00	24	24	80.00		80.00		165	220	6.60	8.80
435+61		443+28	767.00	24	24	2045.33			2045.33	165	220	168.74	224.99
443+28		464+00	2072.00	26	26	5985.78			5985.78	165	220	493.83	658.44
464+00		472+30	830.00	28	28	2582.22			2582.22	165	220	213.03	284.04
472+30		493+30	2100.00	26	26	6066.67			6066.67	165	220	500.50	667.33
493+30		500+00	670.00	32	32	2382.22			2382.22	165	220	196.53	262.04
500+00		504+90	490.00	40	40	2177.78			2177.78	165	220	179.67	239.56
504+90		519+60	1470.00	36	36	5880.00			5880.00	165	220	485.10	646.8
519+60		520+90	130.00	30	30	433.33			433.33	165	220	35.75	47.67
520+90		521+96	106.00	24	24	282.67			282.67	165	220	23.32	31.09
521+96		522+26	30.00	24	24	80.00		80.00		165	220	6.60	8.80
522+26		523+16	90.00	24	24	240.00		240.00		165		19.80	
TOTALS THIS PAGE:						161686.78	18197.67	1653.33	139594.67			13,339.16	15622.05

PASSING LANE/TURN LANE MILLING AND PAVING SHEET

(For Information Only)

FROM STATION	EB/WB	TO STATION	LENGTH (FT)	PAVING WIDTH 1 (FT)	PAVING WIDTH 2 (FT)	PAVING AREA (SYS)		SURFACE MILLING, TRANSITION (SYS)	SURFACE MILLING, 1.0" (SYS)	QC/QA-HMA, SURFACE, 9.5mm (LB/SYD)	QC/QA-HMA, INTERMEDIATE,12.5mm (LB/SYD)	QC/QA-HMA, SURFACE, 9.5mm (TON)	QC/QA-HMA, INTERMEDIATE,12.5mm (TON)
355+50	WB	357+00	150.00	6	12	150.00			150.00	165	220	12.38	16.50
357+00	WB	361+50	450.00	12	12	600.00			600.00	165	220	49.50	66.00
361+50	WB	362+50	100.00	12	6	100.00			100.00	165	220	8.25	11.00
354+91	EB	355+90	99.00	0	12	66.00			66.00	165	220	5.45	7.26
355+90	EB	358+39	249.00	12	12	332.00			332.00	165	220	27.39	36.52
358+39	EB	360+00	161.00	12	0	107.33			107.33	165	220	8.86	11.81
463+24	WB	465+33	209.00	0	12	139.33			139.33	165	220	11.50	15.33
465+33	WB	468+00	267.00	12	12	356.00			356.00	165	220	29.37	39.16
468+00	WB	469+36	136.00	12	0	90.67			90.67	165	220	7.48	9.97
TOTALS THIS PAGE:						1941.33		0.00	1941.33			160.16	213.55

SHOULDER MILLING AND PAVING SHEET

(For Information Only)

STATION	TO	STATION	EB/WB	LENGTH (FT)	WIDTH 1 (FT)	WIDTH 2 (FT)	AREA (SYS)	SURFACE MILLING, TRANSITION (SYS)	SURFACE MILLING, 1.0" (SYS)	SURFACE MILLING, 1.5" (SYS)	HMA SURFACE, TYPE B (LB/SYD)	HMA INTERMEDIATE, TYPE B (LB/SYD)	HMA SURFACE, TYPE B (TON)	HMA INTERMEDIATE, TYPE B (TON)
57+73		70+50	EB	1277.00	8	8	1135.11			1135.11	165		93.65	
428+57		431+06	EB	249.00	12	12	332.00		332.00		165	220	27.39	36.52
431+06		431+36	EB	30.00	12	12	40.00	40.00			165	220	3.30	4.40
431+36		432+26	EB	90.00	12	12	120.00	120.00			165		9.90	
428+57		431+06	WB	249.00	12	12	332.00		332.00		165	220	27.39	36.52
431+06		431+36	WB	30.00	12	12	40.00	40.00			165	220	3.30	4.40
431+36		432+26	WB	90.00	12	12	120.00	120.00			165		9.90	
434+41		435+31	EB	90.00	12	12	120.00	120.00			165		9.90	
435+31		435+61	EB	30.00	12	12	40.00	40.00			165	220	3.30	4.40
435+61		443+28	EB	767.00	12	12	1022.67		1022.67		165	220	84.37	112.49
434+41		435+31	WB	90.00	12	12	120.00	120.00			165		9.90	
435+31		435+61	WB	30.00	12	12	40.00	40.00			165	220	3.30	4.40
435+61		443+28	WB	767.00	12	12	1022.67		1022.67		165	220	84.37	112.49
443+28		458+00	WB	1472.00	8	8	1308.44		1308.44		165	220	107.95	143.93
458+00		464+00	WB	600.00	8	6	466.67		466.67		165	220	38.50	51.33
472+30		499+00	WB	2670.00	8	8	2373.33		2373.33		165	220	195.80	261.07
499+00		500+00	WB	100.00	8	2	55.56		55.56		165	220	4.58	6.11
TOTALS THIS PAGE:							8688.44	640.00	6913.33	1135.11			716.80	778.07

SHOULDER MILLING AND PAVING SHEET

(For Information Only)

STATION	TO	STATION	EB/WB	LENGTH (FT)	WIDTH 1 (FT)	WIDTH 2 (FT)	AREA (SYS)	SURFACE MILLING, TRANSITION (SYS)	SURFACE MILLING, 1.0" (SYS)	SURFACE MILLING, 1.5" (SYS)	HMA SURFACE, TYPE B (LB/SYD)	HMA INTERMEDIATE, TYPE B (LB/SYD)	HMA SURFACE, TYPE B (TON)	HMA INTERMEDIATE, TYPE B (TON)
506+00		510+80	WB	480.00	6	6	320.00		320.00		165	220	26.40	35.20
510+80		513+50	WB	270.00	3	3	90.00		90.00		165	220	7.43	9.90
513+50		518+30	WB	480.00	6	6	320.00		320.00		165	220	26.40	35.20
506+00		513+50	EB	750.00	8	8	666.67		666.67		165	220	55.00	73.33
513+50		516+40	EB	290.00	4	4	128.89		128.89		165	220	10.63	14.18
516+40		521+96	EB	556.00	12	12	741.33		741.33		165	220	61.16	81.55
521+96		522+26	EB	30.00	12	12	40.00	40.00			165	220	3.30	4.40
522+26		523+16	EB	90.00	12	12	120.00	120.00			165		9.90	
519+70		520+90	WB	120.00	6	12	120.00		120.00		165	220	9.90	13.20
520+90		521+96	WB	106.00	12	12	141.33		141.33		165	220	11.66	15.55
521+96		522+26	WB	30.00	12	12	40.00	40.00			165	220	3.30	4.40
522+26		523+16	WB	90.00	12	12	120.00	120.00			165		9.90	
TOTALS THIS PAGE:							2848.22	320.00	2528.22	0.00			234.98	286.90

WIDENING WORKSHEET

FOR INFORMATIONAL PURPOSES ONLY

SECTION DESCRIPTION	STA.	to	STA.	W (FT)	L (FT)	AREA (FT^2)	SYS	WIDENING WITH HMA		COMPACTED AGG NO. 53 (660 LB/SYD)
								RATE (#/SYD)	TONS	TONS
Widening EB	12+49.00		57+73.00	2	4524.00	9048.00	1005.33	660.00	331.76	331.76
Widening WB	12+49.00		70+50.00	2	5801.00	11602.00	1289.11	660.00	425.41	425.41
LESS PUB RD. APPR.				2	73.00	146.00	-16.22	660.00	-5.35	-5.35
TOTALS:					**10398.00**		**2278.22**		**751.80**	**751.81**

PATCHING SHEET

(For Information Only)

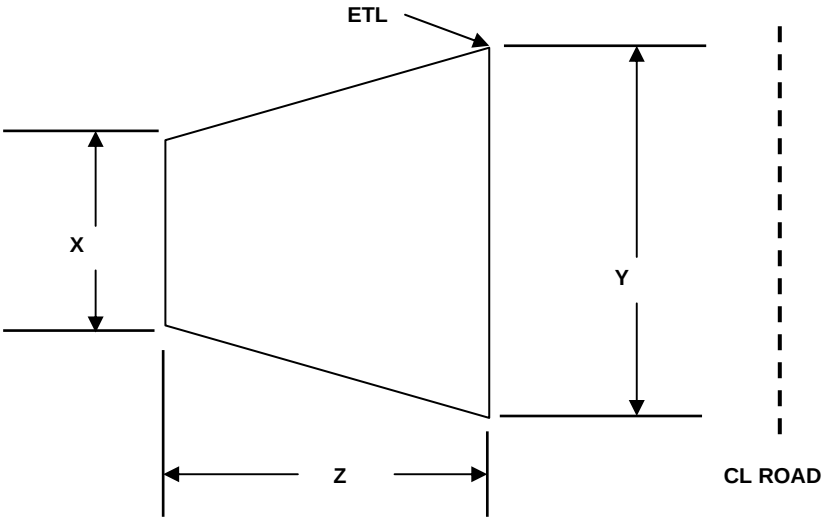
STATION	TO	STATION	EBL/WBL	LENGTH (FT.)			WIDTH (FT.)		AREA (SYS)		HMA PATCHING (LB/SYD)		HMA PATCHING (TONS)
382+66		382+92	WBL		26		14		40.44		660		13.35
338+49		338+55	WBL		6		14		9.33		660		3.08
240+25		240+56	WBL		31		14		48.22		660		15.91
183+15		183+39	WBL		24		14		37.33		660		12.32
182+73		182+79	WBL		6		14		9.33		660		3.08
143+91		144+91	WBL		100		14		155.56		660		51.33
61+23		62+58	EBL		135		12		180.00		660		59.40
63+45		63+74	EBL		29		12		38.67		660		12.76
68+49		68+55	EBL		6		20		13.33		660		4.40
70+49		70+55	EBL		6		20		13.33		660		4.40
94+03		95+38	EBL		135		8		120.00		660		39.60
199+84		200+02	EBL		18		14		28.00		660		9.24
232+83		233+00	EBL		17		14		26.44		660		8.73
368+25		368+50	EBL		25		14		38.89		660		12.83
403+04		403+32	EBL		28		12		37.33		660		12.32
425+00		426+20	EBL		120		14		186.67		660		61.60
NOTE: CORES SHOW BETWEEN 4" - 6" OF ASPHALT ON 6" - 7" CONCRETE. ASPHALT PATCHES SHALL BE PLACED TO TOP OF CONCRETE.													
FOR AREAS WHERE CONCRETE IS BROKEN UP PLACE 660 LB/SYD PATCHING ON 6 IN. COMPACTED AGGREGATE NO. 53.													
AN UNDISTRIBUTED QUANTITY OF 110 TONS OF COMPACTED AGGREGATE NO. 53 WILL BE INCLUDED FOR THIS WORK.													
												TOTAL =	324.35
												OVERALL TOTAL =	324.35

PUBLIC ROAD APPROACH SHEET

(For Information Only)

STATION	LT./RT.	DESCRIPTION	X (FT)	Y (FT)	Z (FT)	AREA (SFT)	AREA (SYS)
10+71	RT.	CR 1000W	21	135	60	4680	520
10+71	LT.	CR 1000W	21	100	42	2541	282.33
38+75	RT.	CR 950W	18	73	41	1865.5	207.28
72+30	RT.	CAROLYN ST.	23	31	14	378	42
75+20	RT.	McCLURE ST.	16	32	12	288	32
78+90	RT.	HULMAN ST.	22	53	21	787.5	87.5
78+90	LT.	SR 25	26	114	49	3430	381.11
80+96	RT.	FRANKLIN ST.	18	48	24	792	88
85+00	RT.	HANCOCK ST.	21	49	21	735	81.67
85+00	LT.	MARKET ST.	30	45	16	600	66.67
89+02	RT.	VINE ST.	38	50	19	836	92.89
89+02	LT.	VINE ST.	38	50	20	880	97.78
95+81	RT.	PLUM ST.	35	48	17	705.5	78.39
95+81	LT.	PLUM ST.	22	45	20	670	74.44
99+82	RT.	VERNON ST.	22	45	20	670	74.44
99+82	LT.	VERNON ST.	24	40	16	512	56.89
103+73	LT.	CENTERVILLE RD.	16	55	33	1171.5	130.17
105+90	RT.	SR 25	24	125	90	6705	745
148+54	LT.	CR 750W	17	85	59	3009	334.33
209+20	RT.	CR 650W	20	102	53	3233	359.22
209+20	LT.	CR 650W	18	98	82	4756	528.44
270+40	RT.	CR 550W	22	80	41	2091	232.33
280+35	LT.	CR 525W	17	78	41	1947.5	216.39
346+36	RT.	CR 400W	22	104	52	3276	364
346+23	LT.	CR 400W	21	94	55	3162.5	351.39
403+09	RT.	CR 300W	20	79	55	2722.5	302.5
416+67	LT.	CR 275W	18	99	51	2983.5	331.5
439+03	RT.	WAYNETOWN RD.	30	170	53	5300	588.89
Average Pavement Depth Per Approach =			220 #/syd		TOTAL AREA =		6747.55
Total Mass for Public Road Approaches =			6747.55 sys	x	220 #/syd		**742.23**
(TO BE PAID FOR AS HMA FOR APPROACHES)					2000 #/ton		**TONS**

TYPICAL PUBLIC ROAD APPROACH



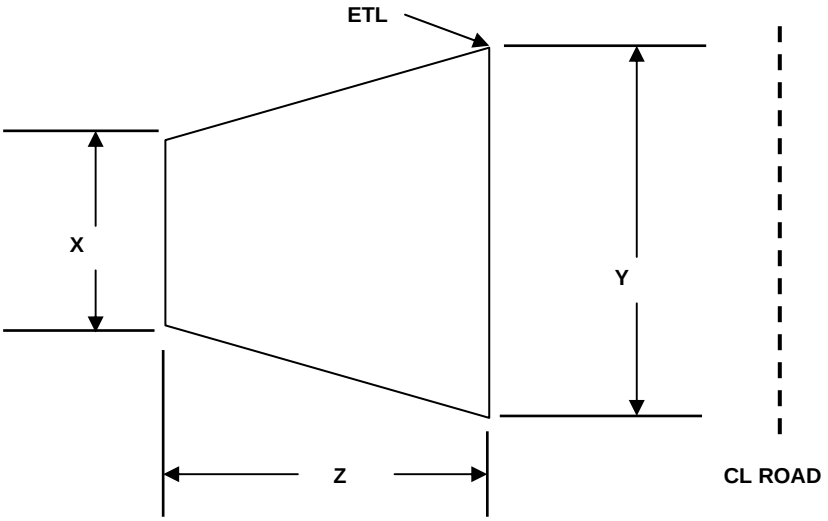
PUBLIC ROAD APPROACH SHEET

(For Information Only)

STATION	LT./RT.	DESCRIPTION	X (FT)	Y (FT)	Z (FT)	AREA (SFT)	AREA (SYS)
466+05	LT.	OLD SR 55	27	140	65	5427.5	603.06
504+10	RT.	WAYNETOWN RD.	45	45	35	1575	175
505+00	RT.	CR 125W	22	125	122	8967	996.33
505+70	LT	CR 125W	24	106	60	3900	433.33
518+80	LT	CAMPGROUND RD.	18	155	109	9428.5	1047.61

Average Pavement Depth Per Approach =	220 #/syd		TOTAL AREA =		2652.27
Total Mass for Public Road Approaches =	2652.27 sys	x	220 #/syd		**291.75**
(TO BE PAID FOR AS HMA FOR APPROACHES)			2000 #/ton		**TONS**

TYPICAL PUBLIC ROAD APPROACH



PRIVATE AND COMMERCIAL DRIVES SHEET

(For Information Only)

		LENGTH	AREA				LENGTH	AREA	
STATION	LT/RT	(LFT)	(SYS)		STATION	LT/RT	(LFT)	(SYS)	
13+96	LT	45	15.00		312+00	LT	45	15.00	
16+25	LT	40	13.33		324+05	LT	40	13.33	
16+80	LT	55	18.33		342+45	LT	35	11.67	
17+50	LT	35	11.67		348+05	LT	40	13.33	
20+80	LT	40	13.33		356+20	RT	25	8.33	
27+97	RT	32	10.67		366+65	RT	25	8.33	
33+50	LT	40	13.33		371+00	RT	30	10.00	
38+75	LT	45	15.00		375+75	RT	20	6.67	
40+50	LT	45	15.00		376+60	LT	40	13.33	
41+85	LT	55	18.33		378+45	LT	45	15.00	
43+75	LT	45	15.00		382+45	LT	80	26.67	
44+50	LT	45	15.00		384+75	RT	35	11.67	
45+80	LT	60	20.00		406+95	LT	35	11.67	
46+60	LT	45	15.00		407+20	RT	30	10.00	
55+75	RT	50	16.67		409+20	RT	40	13.33	
61+00	LT	50	16.67		417+40	LT	40	13.33	
109+90	LT	45	15.00		427+70	LT	50	16.67	
116+05	LT	35	11.67		443+48	RT	30	10.00	
117+55	LT	40	13.33		444+86	RT	30	10.00	
123+10	LT	35	11.67		446+00	RT	30	10.00	
123+90	RT	55	18.33		447+30	RT	30	10.00	
124+15	LT	35	11.67		448+65	RT	35	11.67	
129+96	LT	50	16.67		450+27	RT	30	10.00	
137+00	RT	250	333.33		451+80	RT	35	11.67	
144+33	RT	65	21.67		452+60	RT	30	10.00	
147+50	RT	70	23.33		453+50	RT	30	10.00	
150+25	LT	50	16.67		455+10	RT	30	10.00	
151+10	LT	45	15.00		456+50	RT	35	11.67	
159+90	RT	20	6.67		470+90	RT	35	11.67	
178+00	RT	45	15.00		474+85	RT	35	11.67	
179+80	RT	15	5.00		476+95	RT	30	10.00	
180+30	RT	65	21.67		478+50	RT	35	11.67	
200+50	LT	200	66.67		487+25	RT	30	10.00	
178+30	LT	40	13.33		487+75	RT	30	10.00	
205+15	RT	60	20.00		488+85	RT	30	10.00	
212+00	RT	35	11.67		489+25	RT	30	10.00	
218+20	LT	50	16.67		491+08	RT	35	11.67	
237+65	LT	60	20.00		492+65	RT	35	11.67	
240+90	LT	35	11.67		493+03	RT	35	11.67	
264+60	LT	35	11.67		494+08	RT	35	11.67	
266+10	LT	35	11.67		495+55	RT	35	11.67	
272+20	RT	25	8.33		497+20	RT	35	11.67	
287+30	LT	35	11.67		497+85	RT	35	11.67	
291+00	RT	35	11.67		500+90	RT	35	11.67	
291+25	LT	115	38.33						
292+75	LT	50	16.67		**TOTAL AREA =**			**1607.33**	
298+80	LT	55	18.33		**AVERAGE DEPTH =**			**220 #/SYD**	
309+10	RT	25	8.33						
					TOTAL MASS =			**176.81**	

MAILBOX APPROACH SHEET

(For Information Only)

STATION	LT/RT	LENGTH (LFT)	AREA (SYS)		STATION	LT/RT	LENGTH (LFT)	AREA (SYS)
12+84	RT	77	51.33		342+76	RT	71	47.33
17+29	RT	77	51.33		343+75	LT	72	48.00
20+70	RT	72	48.00		345+04	RT	83	55.33
26+39	RT	83	55.33		348+85	RT	52	34.67
33+68	RT	78	52.00		350+58	RT	69	46.00
62+08	LT	64	42.67		361+10	RT	59	39.33
64+10	LT	78	52.00		372+36	RT	81	54.00
68+64	LT	57	38.00		376+38	RT	56	37.33
69+56	LT	70	46.67		378+47	RT	58	38.67
70+73	LT	58	38.67		382+72	RT	60	40.00
116+79	LT	66	44.00		405+23	RT	58	38.67
120+42	LT	70	46.67		408+00	RT	68	45.33
134+00	LT	80	53.33		409+24	RT	58	38.67
144+38	LT	66	44.00		412+02	RT	75	50.00
179+72	LT	94	62.67		414+07	RT	102	68.00
220+10	RT	72	48.00		415+08	RT	92	61.33
241+11	RT	64	42.67		416+34	RT	68	45.33
254+56	RT	85	56.67		419+09	RT	91	60.67
262+05	RT	72	48.00		424+41	RT	68	45.33
265+72	RT	63	42.00		428+22	RT	111	74.00
266+52	RT	74	49.33					
268+73	RT	130	86.67					
270+88	RT	30	20.00					
273+28	RT	60	40.00					
284+42	RT	71	47.33					
300+83	RT	81	54.00					
311+27	RT	125	83.33					
311+80	RT	W/311+27						
316+62	RT	58	38.67					
319+70	RT	85	56.67					
323+51	RT	65	43.33					
325+18	LT	68	45.33					
327+27	RT	47	31.33					
329+78	RT	68	45.33					
331+84	RT	63	42.00					
333+05	LT	69	46.00					
333+19	RT	67	44.67					
335+04	RT	58	38.67					
339+53	LT	64	42.67					
TOTAL AREA THIS SIDE =			1819.33		TOTAL AREA THIS SIDE =			968
					OVERALL TOTAL AREA =			**2787.33**
					TOTAL AREA =			**2787.33**
					AVERAGE DEPTH =			**220 #/SYD**
					TOTAL MASS =			**306.61**

UNDERSEAL LOCATION AND QUANTITY SHEET

(For Information Only)

EASTBOUND US 136					WESTBOUND US 136			
FROM STATION	TO STATION	LENGTH (FT)	HOLES		FROM STATION	TO STATION	LENGTH (FT)	HOLES
16+03	22+69	666	33		498+45	479+09	1936	97
32+80	36+14	335	17		475+84	462+72	1312	66
39+39	58+95	1955	98		460+69	457+67	302	15
74+92	114+69	3976	199		453+53	432+47	2106	105
117+84	154+48	3665	183		419+84	407+04	1280	64
157+67	167+15	948	47		403+53	400+38	315	16
170+36	183+75	1339	67		393+13	373+09	2005	100
187+00	196+48	948	47		369+87	366+95	292	15
200+48	203+24	276	14		360+78	354+03	676	34
206+85	223+05	1621	81		350+74	344+25	650	32
226+27	239+26	1299	65		334+41	327+45	696	35
242+48	269+05	2657	133		324+60	311+37	1322	66
272+82	288+61	1578	79		308+26	305+76	249	12
298+05	301+96	390	20		298+48	285+29	1319	66
315+44	321+81	636	32		278+60	262+16	1644	82
325+12	331+03	591	30		259+01	246+28	1273	64
337+72	354+06	1634	82		243+23	206+55	3668	183
367+35	373+68	633	32		203+43	189+92	1352	68
380+53	383+78	325	16		183+68	137+23	4646	232
423+32	432+24	892	45		134+31	111+05	2326	116
436+21	443+36	715	36		107+83	49+40	5843	292
446+18	465+41	1923	96		42+61	19+81	2280	114
469+12	479+22	1010	51		16+07	12+49	358	18
482+14	488+51	636	32					
498+22	501+53	331	17					
		TOTAL =	**1549**				**TOTAL =**	**1892**
Estimate 5 holes every 100 ft.					Estimate 5 holes every 100 ft.			
Total Underseal =		**92.94**	**Tons**		**Total Underseal =**		**113.54**	**Tons**
Estimate 0.06 Tons of Underseal per Hole					Estimate 0.06 Tons of Underseal per Hole			
Overall Total For:								
Drilled Hole For Underseal =			**3441**	**Holes**				
Asphalt Material for Underseal =			**206.49**	**Tons**				

TACK COAT AND MILLING SHEET

(For Information Only)

TOTAL AREA FOR TACK COAT FOR MAINLINE SURFACE =	161686.78	SYS
TOTAL AREA FOR TACK COAT FOR MAINLINE INTERMEDIATE =	141645.33	SYS
TOTAL AREA FOR TURN LANES AND PASSING BLISTERS =	3882.67	SYS
TOTAL AREA FOR TACK COAT FOR PUBLIC ROAD APPROACHES =	18799.64	SYS
TOTAL AREA FOR TACK COAT FOR PRIV. & COMM. DRIVES, MBOX APPROACHES AND FE'S =	8789.33	SYS
TOTAL AREA FOR TACK COAT FOR EXISTING SHOULDERS =	21218.22	SYS

TOTAL AREA =		356021.9733	SYS
ASPHALT FOR TACK COAT =		356021.9733	SYS
	x	0.06	GAL/SYD
	/	250	GAL/TON
		85.45	**TONS**

	MILLING, TRANSIT'N AREA (SYS)	MILLING, 1.0" AREA (SYS)	MILLING 1.5" AREA (SYS)
MAINLINE	1653.33	139594.67	18197.67
TURN LANES & BLISTERS	0.00	1941.33	0.00
SHOULD. EB	480.00	2891.56	1135.11
SHOULD. WB	480.00	6550.00	0.00
TOTALS	**2613.33**	**150977.56**	**19332.78**

	PUBLIC ROAD APPR. (SYS)	PD'S , CD'S, MBOXES AND FE'S (SYS) DEPTH = 0.5"	TOTAL (SYS)
APPROACH MILLING	**9399.82**	**4394.67**	**13794.49**

COMPACTED AGGREGATE, NO. 73

(For Information Only)

STATION	TO	STATION	EB/WB	LENGTH (LFT)	WIDTH (LFT)	AREA (SYS)	RATE (T/SYD)	MASS (TON)
12+49		57+73	EB	4524	2	1005.33	0.167	167.89
12+49		70+50	WB	5801	2	1289.11	0.167	215.28
107+00		432+26	EB	32526	2	7228.00	0.167	1207.08
107+00		432+26	WB	32526	2	7228.00	0.167	1207.08
434+41		523+16	EB	8875	2	1972.22	0.167	329.36
434+41		523+16	WB	8875	2	1972.22	0.167	329.36
							TOTAL =	3456.05

CASTING, ADJUSTED TO GRADE

(For Information Only)

STA, 67+24 RT.	1	EACH
SR 25 (W. JCT.) - MCCLURE	2	EACH
FRANKLIN ST. NE QUAD.	1	EACH
TOTAL =	4	EACH

GUARDRAIL UPGRADE

(For Information Only)

STATION	RT/LT	GUARDRAIL REMOVE (LFT)	W-BEAM GUARDRAIL INSTALL (LFT)	EXISITNG END TREAT. REMOVE (EA)	TYPE OS END TREAT. INSTALL (EA)	GUARDRAIL TRANSITION, TYPE VH (EA)	GUARDRAIL RESET (LFT)	BORROW (5 CYD PER ENDSECT.) (CYD)	LINEAR GRADING 100'/GRET (LFT)	COMP. AGG., NO 53 PADS (50 TON/PAD) (6 IN. DEPTH) (TON)
113+40	LT.			1	1		190	5	100.00	5
114+60	RT.			1	1		150	5	100.00	5
115+80	LT.	25		1	1			5	100.00	5
116+63	RT.			1	1			5	100.00	5
259+00	RT.			1	1		220	5	100.00	50
259+95	LT.			1	1		240	5	100.00	50
261+42	RT.							0	0.00	0
262+86	LT.			1	1			5	100.00	25
344+60	LT.			1	1			5	100.00	25
344+78	RT.							0	0.00	0
345+68	LT.							0	0.00	0
345+91	RT.							0	0.00	0
367+12	LT.			1	1		290	5	100.00	25
367+48	RT.			1	1		265	5	100.00	50
370+55	LT.			1	1			5	100.00	5
370+88	RT.	25		1	1			5	100.00	5
423+90	LT.			1	1		270	5	100.00	50
424+83	RT.						175	0	0.00	0
427+11	LT.			1	1			5	100.00	25
427+06	RT.	25		1	1			5	100.00	25
431+27	LT.							0	0.00	0
431+84	RT.							0	0.00	0
	TOTALS:	**75**	**0**	**15**	**15**	**0**	**1800**	**75**	**1500.00**	**355**

NOTE: BORROW TO BE BENCHED IN.

GUARDRAIL UPGRADE

(For Information Only)

STATION	RT/LT	GUARDRAIL REMOVE (LFT)	W-BEAM GUARDRAIL INSTALL (LFT)	EXISITNG END TREAT. REMOVE (EA)	TYPE OS END TREAT. INSTALL (EA)	GUARDRAIL TRANSITION, TYPE VH (EA)	GUARDRAIL RESET (LFT)	BORROW (5 CYD PER ENDSECT.) (CYD)	LINEAR GRADING 100'/GRET (LFT)	COMP. AGG., NO 53 PADS (50 TON/PAD) (6 IN. DEPTH) (TON)
435+59	LT.							0	0.00	0
436+35	RT.			1	1			5	100.00	25
506+86	LT.							0	0.00	0
507+14	LT.			1	1			5	100.00	25
516+50	RT.							0	0.00	0
517+61	RT.							0	0.00	0
519+90	LT.							0	0.00	0
520+19	RT.			1	1	1		5	100.00	25
UNDISTRIBUTED		25	100			4	100	0	0.00	0
NOTE: THE INTENT OF THE 'GUARDRAIL, RESET' ITEM IS TO ADJUST THE HEIGHT OF THE EXISTING GUARDRAIL. IN SOME CASES THE HEIGHT OF THE GUARDRAIL WILL NEED TO BE ADJUSTED OR MAY NEED TO BE REMOVED AND RESET DEPENDING ON THE TYPE OF EXISTING GUARDRAIL POST AT EACH GUARDRAIL LOCATION.										
	TOTALS:	**25**	**100**	**3**	**3**	**5**	**100**	**15**	**300.00**	**75**

NOTE: BORROW TO BE BENCHED IN.

THERMOPLASTIC PAVEMENT MARKINGS SHEET

(For Information Only)

LOCATION	LENGTH (LFT)	THERMOPLASTIC	TURN LANE LINE	EDGE LINE	CENTER LINE	CROSS-WALK LINE, 6 IN. (LFT)	TRANS. MARK., STOP LINE, 24 IN. (LFT)	LINE, SOLID, YELLOW, 4 IN.(LFT)	LINE, BROKEN, WHITE, 4 IN. (LFT)	LINE, BROKEN, YELLOW, 4 IN. (LFT)	LINE, SOLID, WHITE, 4 IN. (LFT)	RPM REMOVAL (EACH)
WHOLE PROJECT		X			X			82473		3847.5		1200
WHOLE PROJECT		X		X							99006	
SR 25 W. JCT.		X					20					
VINE ST. INTERSECTION		X				312	88					
SR 25 E. JCT.							20					
TURN LANE LINES		X	X								847	
(WB CLIMBING LANE ON EAST END)		X							330			

EPOXY PAVEMENT MARKINGS SHEET

(For Information Only)

FROM STATION	TO STATION	LENGTH (LFT)		EPOXY				LINE, REMOVE (LFT)	LINE, SOLID, YELLOW, 4 IN.(LFT)	LINE, BROKEN, YELLOW, 4 IN. (LFT)	LINE, SOLID, WHITE, 4 IN. (LFT)	LINE, BROKEN, WHITE, 4 IN. (LFT)
432+26	434+41	215.00		X				860	430		430	

SIGNAL LOOP SUMMARY SHEET

(For Information Only)

NB VINE ST. (STA. 89+02)

TOTAL LOOPS = 4 EACH (3 LT AND 1 RT)

SAW CUT FOR ROADWAY LOOP AND SEALER

LOOPS =	4	EACH
CUT/LOOP =	25	FT
LEADS =	50	FT

TOTAL = 4 LOOPS x 25 FT/LOOP + 50FT/FOR LEADS = 150 FT

SIGNAL CABLE, ROADWAY LOOP, 1C 14GA

LOOPS =	4	EACH
CABLE/LOOP	20	FT
LEADS =	50	FT

TOTAL = 4 LOOPS x 20 FT/LOOP + 50 FT/FOR LEADS x 2 + 10 FT EXTRA = 190 FT

SB VINE ST. (STA. 89+02)

TOTAL LOOPS = 4 EACH (3 LT AND 1 RT)

SAW CUT FOR ROADWAY LOOP AND SEALER

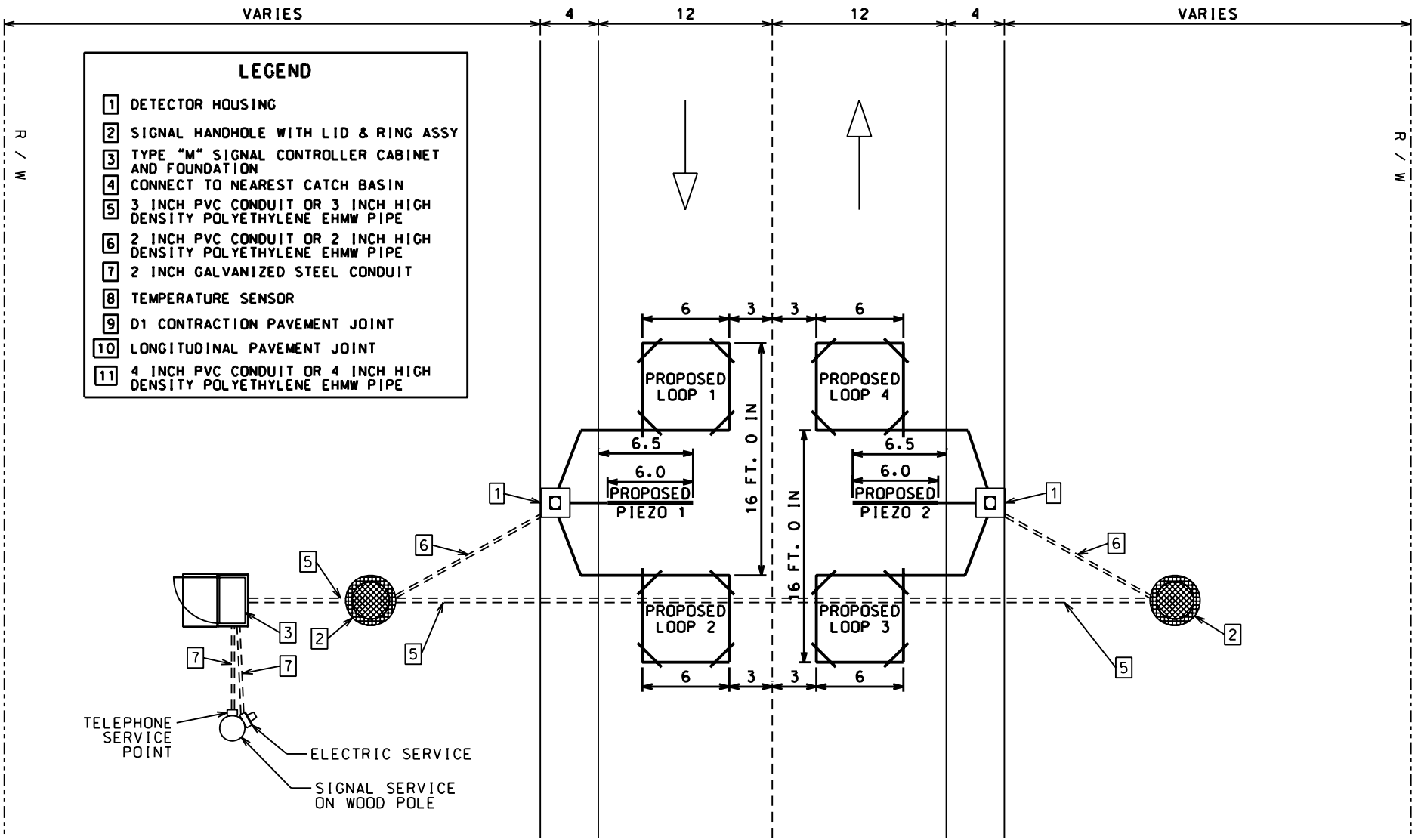
LOOPS =	4	EACH
CUT/LOOP =	25	FT
LEADS =	40	FT

TOTAL = 4 LOOPS x 25 FT/LOOP + 40FT/FOR LEADS = 140 FT

SIGNAL CABLE, ROADWAY LOOP, 1C 14GA

LOOPS =	4	EACH
CABLE/LOOP	20	FT
LEADS =	40	FT

TOTAL = 4 LOOPS x 20 FT/LOOP + 40 FT/FOR LEADS x 2 + 10 FT EXTRA = 170 FT

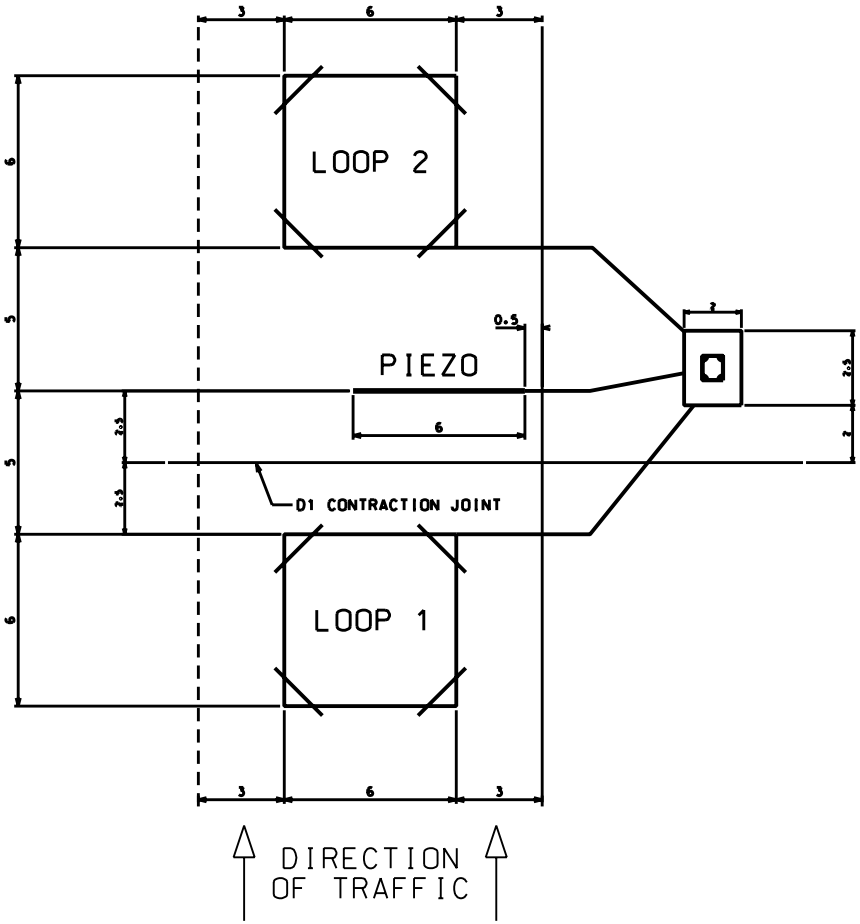


TYP. 2 LANE ATR STATION

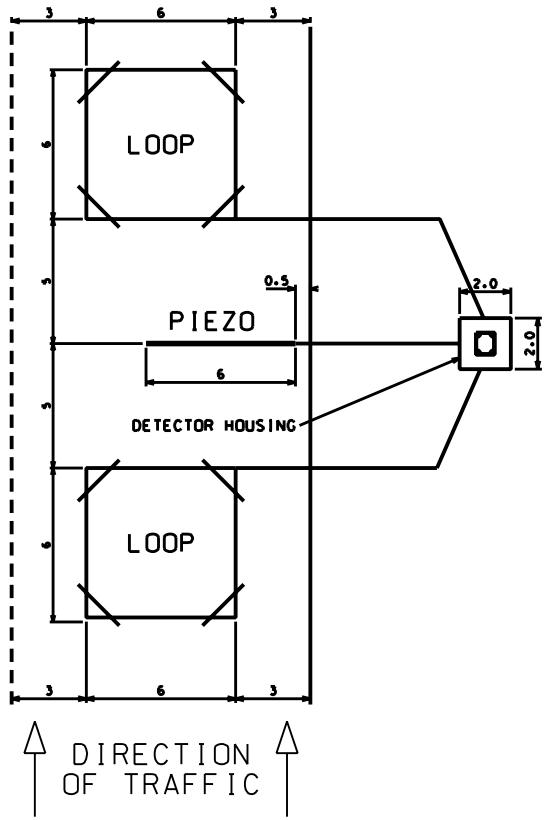
NOTES:

1. ALL PIEZOS SHOWN ARE MSI CLASS II BL OR EQUIVALENT 6 FEET PIEZO SENSORS.
2. HOT SEALANTS SHALL NOT BE PERMITTED FOR USE ON LOOPS AND PIEZOS.
3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

PCC PAVEMENT



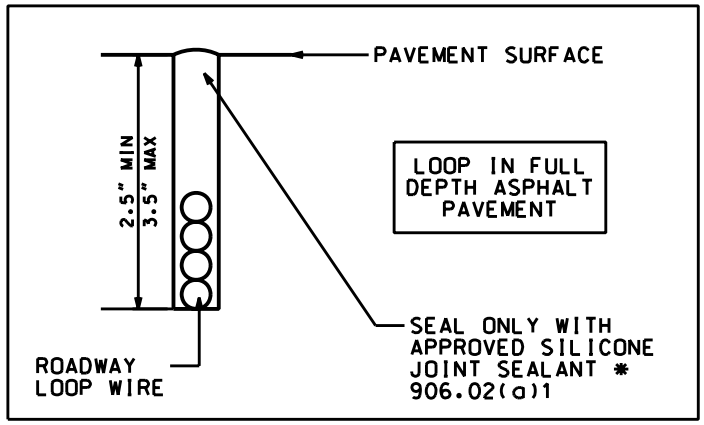
FULL DEPTH ASPHALT PAVEMENT

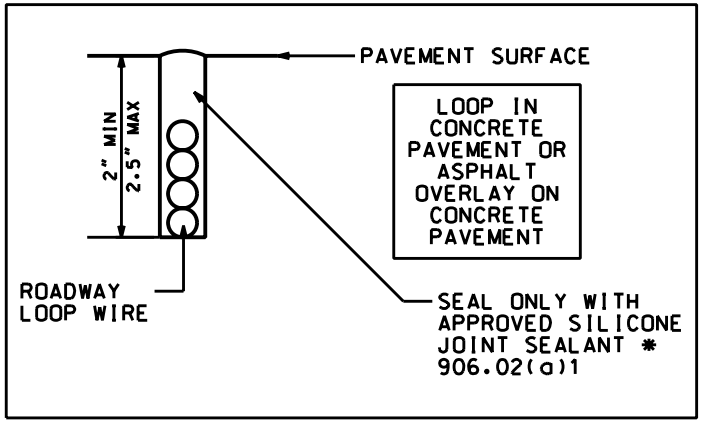


NOTES:

1. AUTOMATIC TRAFFIC RECORDER STATION AND DATA COLLECTION STATION PIEZOS SHOWN IN THIS DETAIL ARE MSI BL CLASS II OR EQUIVALENT 6 FEET PIEZO SENSORS.
2. HOT SEALANTS SHALL NOT BE PERMITTED FOR USE ON LOOPS AND PIEZOS.
3. CENTER LOOP IN LANE WHERE LANE WIDTH EXCEEDS 12 FEET.
4. AT LOCATIONS WITH PCC PAVEMENT. SENSOR PLACEMENT SHALL BE DETERMINED BY D1 CONTRACTION JOINTS AS SHOWN.
5. AT LOCATIONS WITH PCCP PAVEMENT. SAW SLOTS SHALL ANGLE AND CROSS D1 CONTRACTION JOINTS ONLY ON SHOULDER AND MEDIAN PAVEMENTS AS SHOWN.

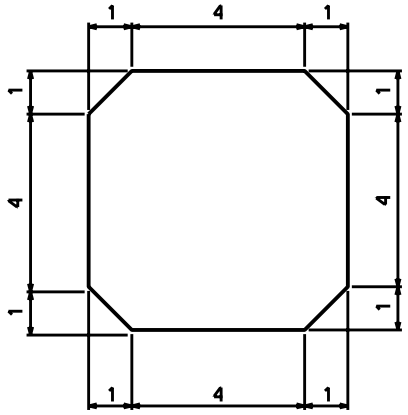
TYPICAL SENSOR SIZE & PLACEMENT DETAILS FOR AUTOMATIC TRAFFIC RECORDER (ATR) AND DATA COLLECTION STATIONS (DCS)





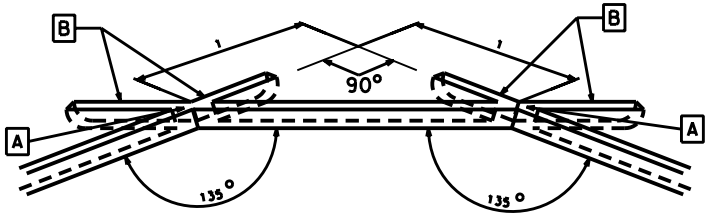
* HOT POURED JOINT SEALANTS AS DESCRIBED IN SECTION 906.02(a)2 SHALL NOT BE PERMITTED FOR USE.

LOOP SAW SLOT DETAIL



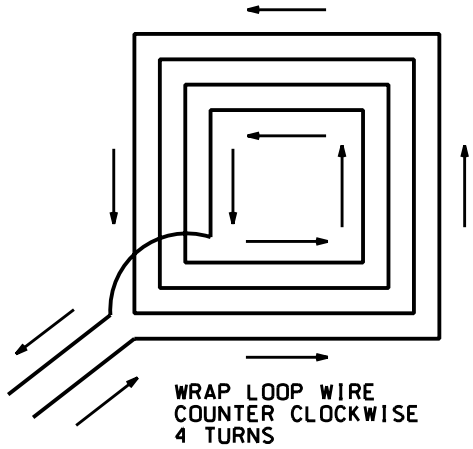
LOOP DIMENSION DETAIL

LOOP CORNER DETAIL

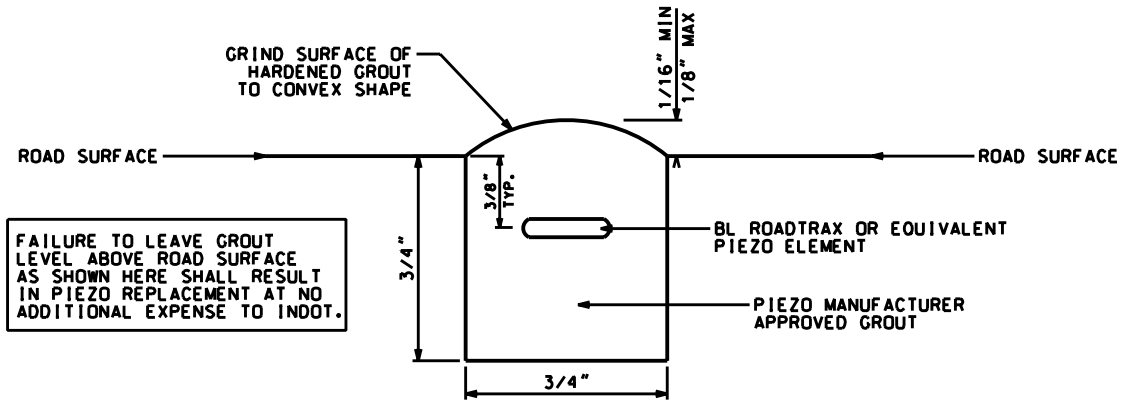


A FILE INSIDE CORNERS FREE OF ROUGHNESS

B OVERLAP CUTS TO ENSURE SLOTS ARE FULL DEPTH THROUGH THE CORNERS

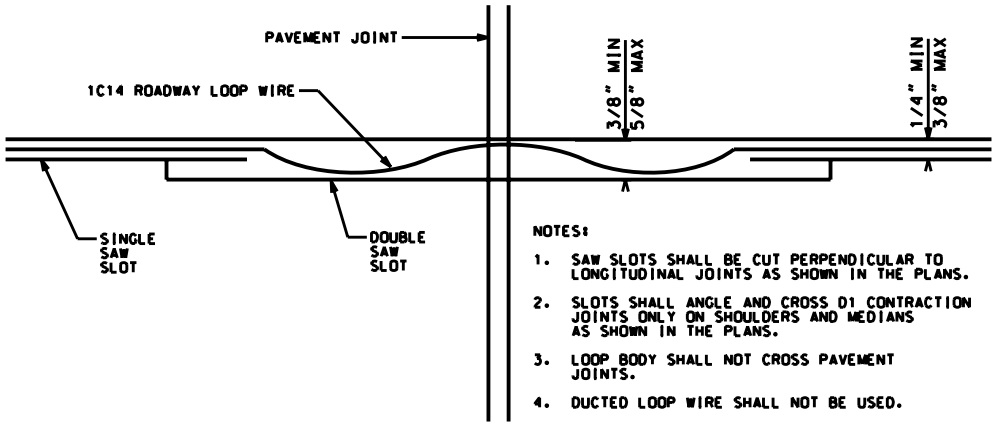


LOOP TURNS DETAIL



FAILURE TO LEAVE GROUT LEVEL ABOVE ROAD SURFACE AS SHOWN HERE SHALL RESULT IN PIEZO REPLACEMENT AT NO ADDITIONAL EXPENSE TO INDOT.

PIEZO CROSS SECTION



NOTES:

1. SAW SLOTS SHALL BE CUT PERPENDICULAR TO LONGITUDINAL JOINTS AS SHOWN IN THE PLANS.
2. SLOTS SHALL ANGLE AND CROSS D1 CONTRACTION JOINTS ONLY ON SHOULDERS AND MEDIANS AS SHOWN IN THE PLANS.
3. LOOP BODY SHALL NOT CROSS PAVEMENT JOINTS.
4. DUCTED LOOP WIRE SHALL NOT BE USED.

SENSOR LEAD JOINT CROSSING DETAIL

FILE: MR 136 0253 54.xls
FROM: FNTN/MONT CO LINE TO C'VILLE LIMITS
COUNTIES: MONTGOMERY
RP: 025+33 TO 035+04

MONUMENT LOCATION REPORT

C'ville District Survey Section
RS-28854

REPORT PRINTED: 1/11/2007

PROJ NO or LA CODE	PLAN DATE	LINE	OFFSET	PLAN STATION	CONTROL POINT	MONUMENT DESCRIPTION per PLANS (SET/FOUND/PROPOSED)	CORN SECT-TWNSP-RANGE	SEC	REF DOC	LAND MARK	FOUND	ECL	DMI (miles)	RP	INDOT TYPE B	SECTION CORNERS	ADJ CAST	COMMENTS
CONCRETE ROAD						MONTGOMERY CO					CONCRETE ROAD							
												BEGIN DMI	26.000	26				
													27.020	27				
181C	1936	A	31.0' L	608+17.0	QC	NONE	NORTH QC S24-T19N-R6W	24		CR 750 W LT	NOTHING FOUND		27.990					
MONTGOMERY CO					QC	NO COUNTY REFS					NO COUNTY REFS							
													28.037	28				
													29.030	29				
													30.025	30				
MONTGOMERY CO					QC	NO COUNTY REFS	NORTH QC S29-T19N-R6W	29			MDR	CL	30.236			1		See FN 90
181C	1936	A	1.5' L	752+16.0	SC	NO STONE	SE CORNER S20-T19N-R5W	20 21 29 28		R/W MKRS LT/RT FENCE LINE RT	MDR	CL	30.735			1		See FN 90
MONTGOMERY CO					SC	NO COUNTY REFS												
													31.035	31				
181C	1936	A		778+45	QC	1/4 SL NOT SHOWN ON PLANS	S21-T19N-R5W	21 28		FENCE LINE LT PVT DR RT	RPM IN THE WAY							
MONTGOMERY CO					QC	NO COUNTY REFS												
181C	1936	A	29.0' L	804+80.0	SC	NO STONE												
MONTGOMERY CO					SC	NO COUNTY REFS		21 22 28 27		CR 400 LT	NOTHING FOUND							
													32.028	32				
													33.025	33				
		BRS-RS-4854 (1) IS STR# 136-54-7122 OVER BLACK CREEK, R/W TAKEN, BLACK TOP OVER CONCRETE																
BRS-RS-4854 (1)	1992	AA		043+00.0	POT	RDNF					NOT SEARCHED FOR							
BRS-RS-4854 (1)	1992	AA		046+00.0	POT	RDNF					NOT SEARCHED FOR							
BRS-RS-4854 (1)	1992	AA		047+50.0	XX	BEGIN R/W TAKE LT/RT												

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BRS-RS-4854 (1)	1992	AA		048+50.0	XX	BEGIN BRS-RS-4854 (1)												
BRS-RS-4854 (1)	1992	AA		052+65.8	XX	CL OF STRUCTURE												
BRS-RS-4854 (1)	1992	AA		053+58.6	**PC**	**TYPE D MON REQUIRED**					NOT FOUND				**1**			Using PI & PT, recover. If in Roadway replace with apprioate monument
181C	1936	AA		053+58.6	PC	IPL no grade change												
BRS-RS-4854 (1)	1992	AA	22.05' RT	056+77.3	PI	IPL				EAST SIDE OF OLD CR 125 N APPROACH	NOT SEARCHED FOR				**1**			Recover & replace
BRS-RS-4854 (1)	1992	AA		059+91.9	POC	UNK												
BRS-RS-4854 (1)	1992	S-1-AA		050+00.0	POT	**EQUATION**				NEW APPROACH FOR CR 125 N								
				TYPE B MONUMENTS SET ON S-1-AA, NEW APPROACH FOR CR 125 N														
BRS-RS-4854 (1)	1992	S-1-AA		051+23.0	**PC**	**TYPE B MON REQUIRED**				NOT IN RS AREA	TYPE B MON FLUSH						**0**	FIND AND PROTECT See FN 91
BRS-RS-4854 (1)	1992	S-1-AA		053+03.2	**PT**	**TYPE B MON REQUIRED**				NOT IN RS AREA	TYPE B MON FLUSH						**0**	FIND AND PROTECT See FN 91
						BACK TO LINE AA												
BRS-RS-4854 (1)	1992	AA		059+91.9	**PT**	**TYPB B MON REQUIRED**					TYPE B MON FLUSH		33.525				**1**	See FN #89
BRS-RS-4854 (1)	1992	AA		062+00.0	XX	END BRS-RS-4854 (1)												
BRS-RS-4854 (1)	1992	AA		062+50.0	XX	END R/W TAKE RT												
BRS-RS-4854 (1)	1992	AA		062+98.0	XX	END R/W TAKE LT												
BRS-RS-4854 (1)	1992	AA		064+00.0	POT	RDNF					NOT SEARCHED FOR							
					END BRS-RS-4854 (1) OVER BLACK CREEK													
											ON MPH POST		**33.989**	**34**				
MONTGOMERY CO					**QC**	NO COUNTY REFS	EAST QC S26-T19N-R5W	26		FIELD DIV RT	NOTHING FOUND		APPRX 34.025					
					BEGIN BHM-Q-248 (2) OVER SUGAR CREEK, R/W TAKEN													

MONUMENT LOCATION REPORT

C'ville District Survey Section
RS-28854

PROJ NO *or* LA CODE	PLAN DATE	LINE	OFFSET	PLAN STATION	CONTROL POINT	MONUMENT DESCRIPTION per PLANS (SET/FOUND/PROPOSED)	CORN SECT-TWNSP-RANGE	SEC	REF DOC	LAND MARK	FOUND	ECL	DMI *(miles)*	RP	INDOT TYPE B	SECTION CORNERS	ADJ CAST	COMMENTS
BHM-Q-248 (2)	1989	A		016+40.0	XX	BEGIN R/W TAKE RT												
BHM-Q-248 (2)	1989	A		016+40.0	XX	BEGIN BHM-Q-248 (2)												
BHM-Q-248 (2)	1989	A		017+70.3	**MPOC**	**TYPE B MON REQUIRED**					NOT FOUND						**1**	Recover using found monument at RP 35.155, Adjust accordingly.
													35.014	**35**				
BHM-Q-248 (2)	1989	A		021+99.0	**PT**	**TYPE B MON REQUIRED**					NOT FOUND REFS GONE						**1**	Recover using found monument at RP 35.155, Adjust accordingly.
BHM-Q-248 (2)	1989	A		023+45.0	POT	NOT SET, RANGE LINE				N 1388.10' TO SC								
181A	1932	A		023+45.0	RL	NONE Range Line	W S36-T19N-R5W E S31-T19N-R4W	36 31		N 1394' +/- to SC								
BHM-Q-248 (2)	1989	A		024+10.0	XX	CL STR# 136-54-0184A												
BHM-Q-248 (2)	1989	A		024+81.0	XX	BEGIN R/W TAKE LT												
BHM-Q-248 (2)	1989	A		026+00.0	**POT**	**TYPE B MON REQUIRED**					MONUMENT EXPOSED TYPE UNK		35.155				**1**	
BHM-Q-248 (2)	1989	A		027+10.0	XX	END R/W TAKE RT												
BHM-Q-248 (2)	1989	A		027+25.0	XX	END R/W TAKE LT												
BHM-Q-248 (2)	1989	A		027+50.0	XX	END BHM-Q-248 (2)												
						END BHM-Q-248 (2) OVER SUGAR CREEK												
											ON RTE SIGN		**36.023**	**36**				
										INDOT R/W CONTROL POINTS, TOTAL NEW MONUMENTS REQUIRED>>					**2**			
										SETION CORNERS, TOTAL NEW MONUMENTS REQUIRED>>						**2**		
										INDOT R/W CONTROL POINTS, TOTAL EXISTING ADJUST CASTING TO GRADE>>							**4**	

MONUMENT LOCATION REPORT

C'ville District Survey Section
RS-28854

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					FOOTNOTES-GENERAL, MASTER													
					89	Adjust Casting to grade only if final grade in more than one-half (1/2) inch or more higher than existing casting. Original castings must not be disturbed. All survey points inside monument boxes must be part of the monument survey and their location included in the surveyor's report. If the casting is not adjusted to grade, then the survey work will be paid for at 50% of the cost of adjusting the casting. **NEW SPECIFICATION REQUIRED.**												
					90	Government Corners in the roadway will be replaced by monuments with castings. A detailed search for documentation is currently underway. Unless provided otherwise the metallic object will be identified and located by the surveyor. The District SOM will decide rather or not to place a new monument based on the information recovered. If no new monument is placed, then this ecavation should be paid for under the DRY HOLE provision of the contract.												
					91	FIND & PROTECT means to locate said monument and paint it. This is not expected to be in the construction area. If this monuments falls inside the construction area, then this item will fall under ADJUST CASTING TO GRADE. See footnote #89.												
					99	To aid in future resurface projects it is recommended that Monument Boxes be used for Section Corners. The following counties will furnish there own center pin for inside the monument box: Tippecanoe,												
						Recovery date(s) and crew: Field check made on 11-20-06 by HRV, LAM.												
						MR completed by: LAM entered data from field check.												
						Revised by or updated by (as needed): JAN. 4, 2007 FORMATTING EDITED AND MINOR DATA REVISION BY LAM.												
						MR approved by David L. South, PE, RLS, Survey Operations Manager, INDOT, C'ville District on: 1/11/07												