

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST. 8 RESURF. 2017-3	MADISON	17	1
		ILLINOIS	CONTRACT NO. 76J84	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

COLLINSVILLE ROAD
2012 ADT: 8300 (ACTUAL)
2017 ADT: 8600 (ESTIMATED)
2037 ADT: 9800 (ESTIMATED)
SU: 1.8% MU: 1.2%

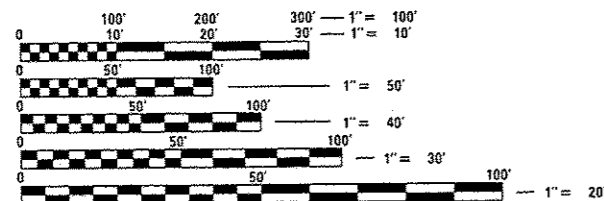
GROTEFENDT ROAD
2016 ADT: 300 (ACTUAL)
2017 ADT: 300 (ESTIMATED)
2037 ADT: 350 (ESTIMATED)
SU: 5.0% MU: 2.3%

**PROPOSED
HIGHWAY PLANS**

VARIOUS ROUTES
SECTION DIST 8 RESURFACING 2017-3

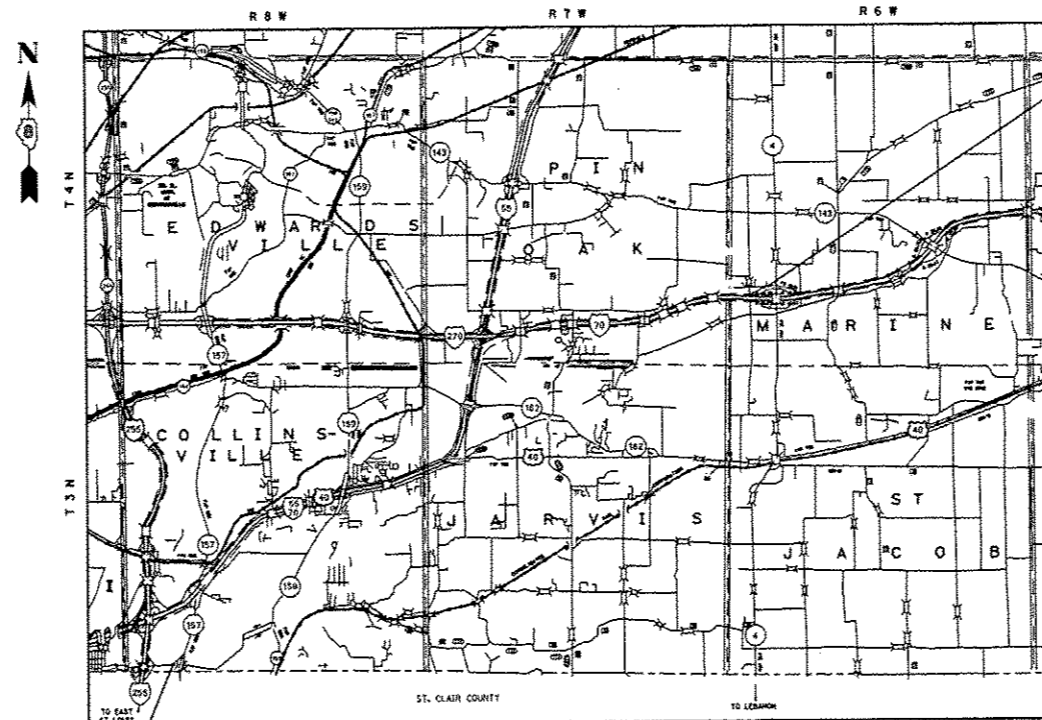
RESURFACING - 3P & HMA - CM
MADISON COUNTY

C-98-064-16



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
OR 811



LOCATION 1
COLLINSVILLE RD
38.660556°N
90.019444°W

LOCATION MAP
NOT TO SCALE

LOCATION 2
GROTEFENDT RD
38.762222°N
89.804444°W

GROSS LENGTH = 4,362.96 FT. = 0.826 MILE
NET LENGTH = 4,362.96 FT. = 0.826 MILE

PROJECT ENGINEER: TIM PADGETT (618) 346-3325
PROJECT MANAGER: PHILLIP FREIMUTH (618) 346-3194

CONTRACT NO. 76J84

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 9 2016
Jeffrey Z. Kam REGIONAL ENGINEER
Jan 27 2017
Mousoon M. Addis, P.E. ENGINEER OF DESIGN AND ENVIRONMENT
Jan 27 2017
Paula A. [Signature] DIRECTOR OF PROGRAM DEVELOPMENT

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100 %
STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				ROADWAY 0005 URBAN	ROADWAY 0005 RURAL
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	94	94	0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5512	5512	0
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	118	118	0
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	209	209	0
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	44	44	0
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	0
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1	0
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	19	19	0
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	2	2	0
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	94	94	0
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5512	5512	0
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	118	118	0
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	209	209	0
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	44	44	0

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* SPECIALTY ITEM

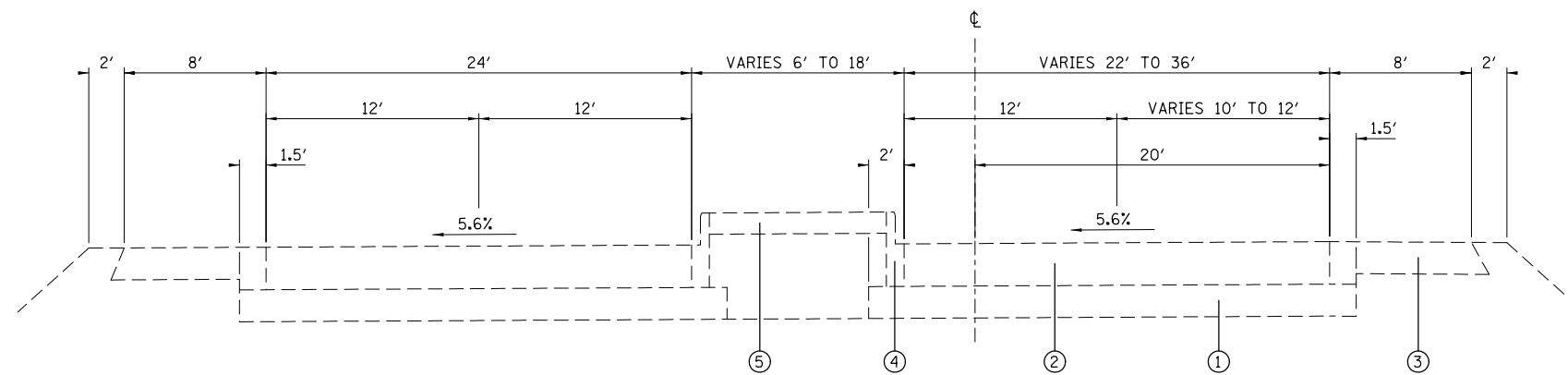
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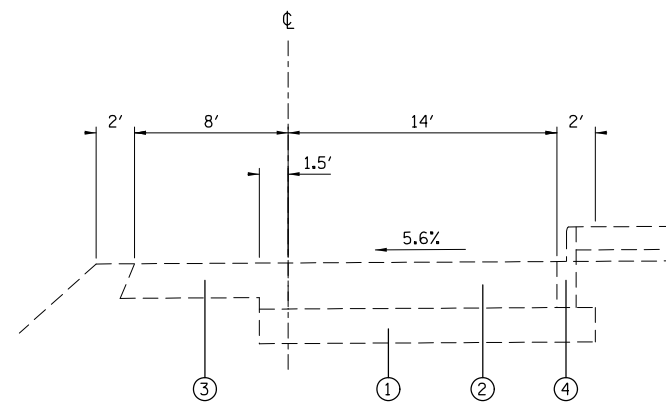
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				ROADWAY 0005 URBAN	ROADWAY 0005 RURAL
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	123	123	0
* 78200020	CURB REFLECTORS	EACH	86	86	0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	123	123	0
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	20	20	0
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	568	568	0
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2306	2306	0
X4405020	LONGITUDINAL PARTIAL DEPTH REMOVAL 2"	FOOT	460	460	0
X4420900	LONGITUDINAL PARTIAL DEPTH PATCHING	TON	12	12	0
X6024503	INLETS TO BE ADJUSTED WITH NEW FRAME AND GRATE (SPECIAL)	EACH	3	3	0
X6060702	CONCRETE MEDIAN, TYPE SM-6.06 (SPECIAL)	SQ FT	266	266	0
* X7800100	PAINT PAVEMENT MARKING - RAISED MEDIAN	SQ FT	158	158	0
* X7800200	PAINT PAVEMENT MARKING CURB	FOOT	438	438	0
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	6016	2986	3030
φ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	500	500	
Z0034105	MATERIAL TRANSFER DEVICE	TON	2055	1036	1019

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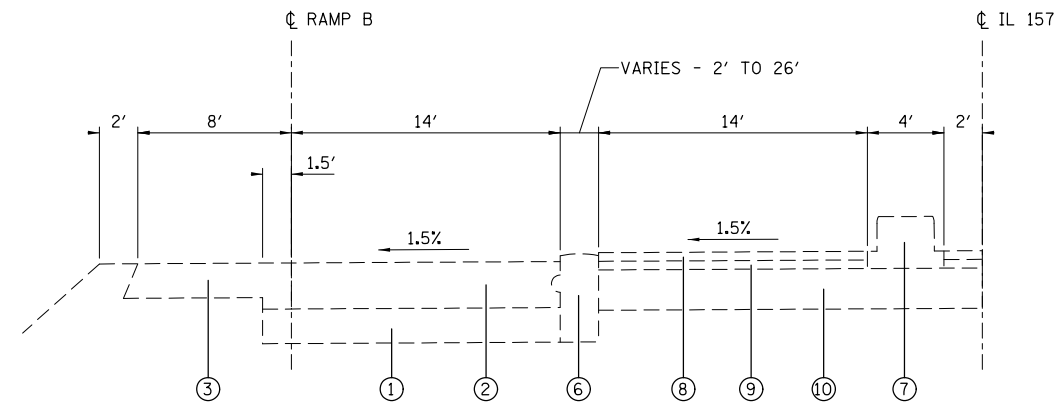
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p:\11884\EBID\INTEG\Illinois.gov\WIDOT\Documents\IDOT Offices\Districts\B\Projects\876\DRAWING\DATA\EA0\sheet\876J84-ent-plan.dwg	Documents\IDOT Offices\Districts\B\Projects\876\DRAWING\DATA\EA0\sheet\876J84-ent-plan.dwg	CHECKED -	REVISED -					VAR.	DIST. 8 RESURF. 2017-3	MADISON	17	4
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 76J84				
PLOT DATE = 12/8/2016		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



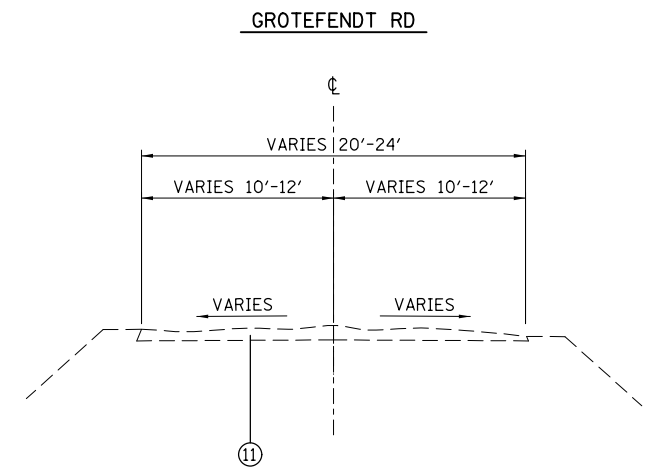
COLLINSVILLE RD
STA. 246+35.50 TO STA. 255+75.00



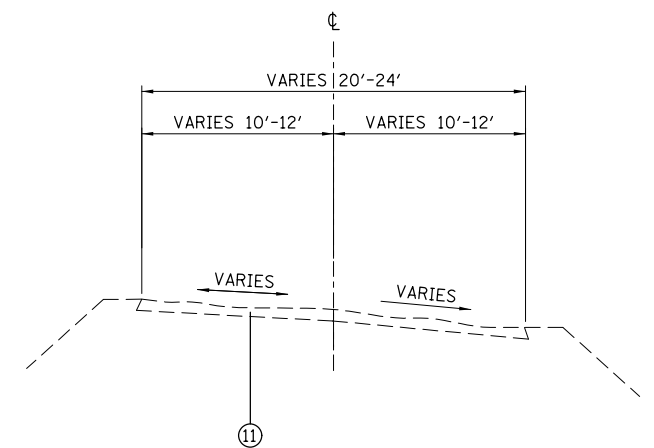
**COLLINSVILLE RD
RAMP B**
STA. 2614+63.97 TO STA. 2617+22.29



**COLLINSVILLE RD
RAMP B AT IL 157**
STA. STA. 2617+22.29 TO STA. 2618+45.42 - RAMP B



**EXISTING
TANGENT SECTION**
STA. 0+22 TO STA. 0+47 (WIDTH VARIES 50'-20')
STA. 0+47 TO STA. 7+01
STA. 14+00 TO STA. 23+43



**EXISTING
SUPERELEVATION SECTION**
STA. 7+01 TO STA. 14+00
STA. 23+43 TO STA. 30+27

LEGEND

- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
- ② EXISTING P.C.C. PAVEMENT, 8"
- ③ EXISTING AGGREGATE SHOULDERS, TYPE A, 6"
- ④ EXISTING COMBINATION C&G, TYPE M-6.06
- ⑤ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑥ EXISTING CONCRETE MEDIAN, TYPE C-4
- ⑦ EXISTING CONCRETE MEDIAN, TYPE SM-6.06 (MODIFIED)
- ⑧ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CLASS I, 1 1/2"
- ⑨ EXISTING BITUMINOUS CONCRETE BINDER COURSE, 1 1/2"
- ⑩ EXISTING P.C.C. PAVEMENT, 7"
- ⑪ EXISTING OIL & CHIP SURFACE

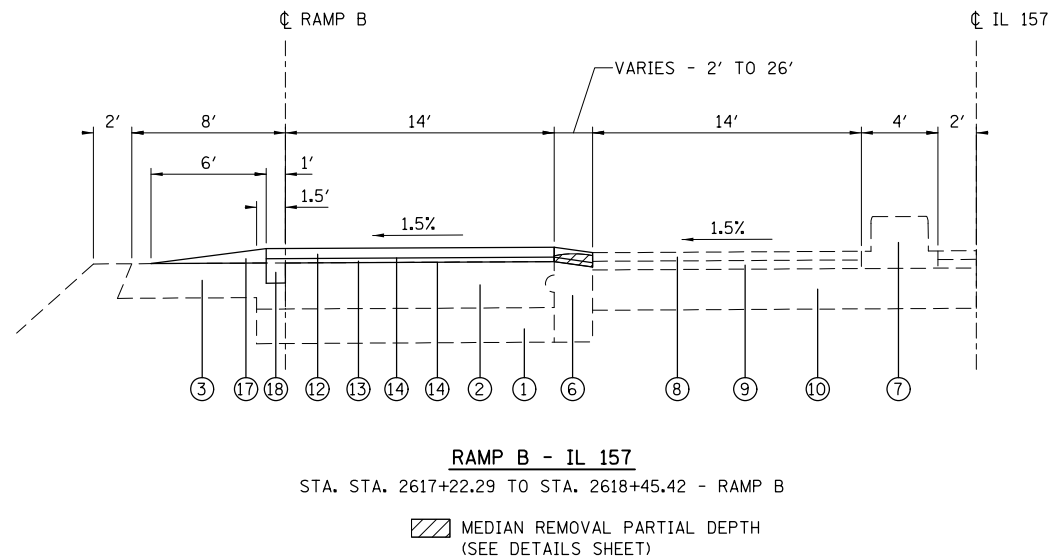
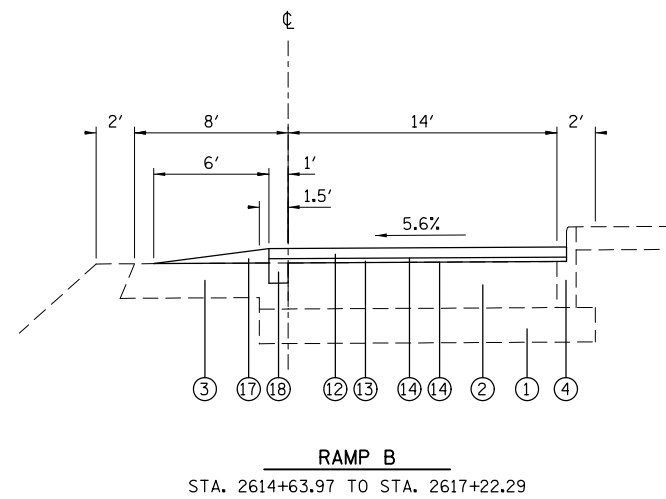
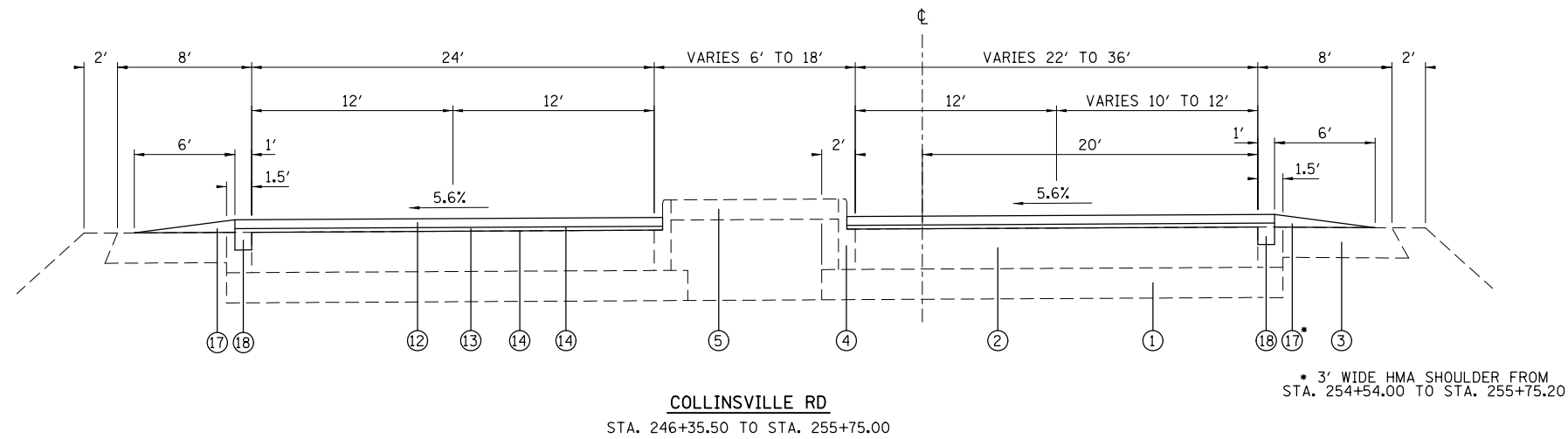
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Default	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL SECTIONS

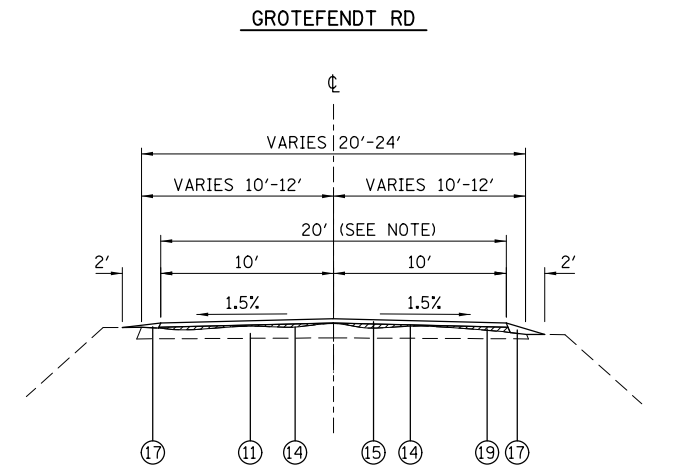
SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST. 8 RESURF. 2017-3	MADISON	17	5
CONTRACT NO. 76J84			ILLINOIS FED. AID PROJECT	



- LEGEND**
- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
 - ② EXISTING P.C.C. PAVEMENT, 8"
 - ③ EXISTING AGGREGATE SHOULDERS, TYPE A, 6"
 - ④ EXISTING COMBINATION C&G, TYPE M-6.06
 - ⑤ EXISTING CONCRETE MEDIAN SURFACE, 4"
 - ⑥ EXISTING CONCRETE MEDIAN, TYPE C-4
 - ⑦ EXISTING CONCRETE MEDIAN, TYPE SM-6.06 (MODIFIED)
 - ⑧ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CLASS I, 1 1/2"
 - ⑨ EXISTING BITUMINOUS CONCRETE BINDER COURSE, 1 1/2"
 - ⑩ EXISTING P.C.C. PAVEMENT, 7"
 - ⑪ EXISTING OIL & CHIP SURFACE
 - ⑫ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1 3/4"
 - ⑬ PROPOSED LEVEL BINDER (MACHINE METHOD), IL-9.5FG, N70, 3/4"
 - ⑭ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
 - ⑮ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1 1/2"
 - ⑯ NOT USED
 - ⑰ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
 - ⑱ PROPOSED LEVEL BINDER (MACHINE METHOD), IL-9.5FG, N70,
(FOR HMA SHOULDER STRIP - STANDARD 482011 - CROSS-SECTION B)
 - ⑲ PROPOSED LEVEL BINDER (MACHINE METHOD), IL-9.5FG, N70, VARYING 0" TO 5"

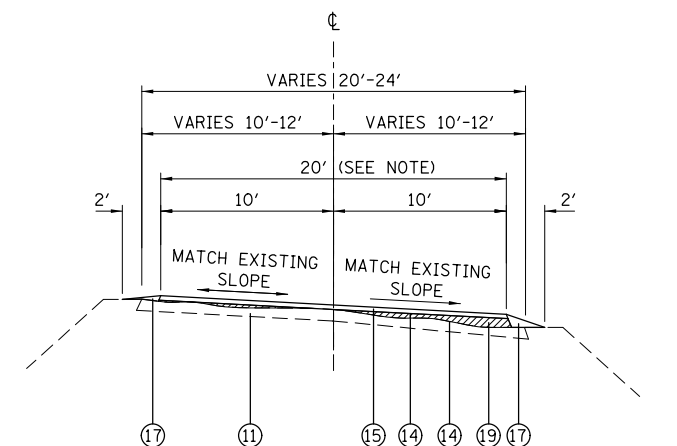
NOTE: LONGITUDINAL JOINT SEALANT SHALL BE INSTALLED AT ALL
CENTERLINE OR LANE-TO-LANE LONGITUDINAL JOINTS OF HMA LIFTS.



PROPOSED TANGENT SECTION
STA. 0+22 TO STA. 0+47 (WIDTH VARIES 50'-20')
STA. 0+47 TO STA. 7+01
STA. 14+00 TO STA. 23+43

▨ PROPOSED BITUMINOUS CONCRETE LEVEL BINDER
TO CORRECT ROADWAY CROWN - VARYING 0" TO 5" THICK

NOTE: PROPOSED EDGE OF PAVEMENT TO BE RE-ESTABLISHED
AT 20' WIDE, REGARDLESS OF EXISTING WIDTH.



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Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL SECTIONS

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST. 8 RESURF. 2017-3	MADISON	17	6
CONTRACT NO. 76J84				
ILLINOIS FED. AID PROJECT				

CLASS B PATCHING SCHEDULE							
PATCH NUMBER	APPROX. STATION	WIDTH (FT)	LENGTH (FT)	EB/WB	CLASS B PATCHES, 8" TYPE II	DOWEL BARS 1 1/2"	SAW CUTS
					(SY)	(EACH)	(FT)
1	246+70	10	6	EB	6.7	16	36
2	249+35	12	6	WB	8.0	20	42
3	249+35	12	6	WB	8.0	20	54
4	249+85	12	6	WB	8.0	20	42
5	249+85	12	6	WB	8.0	20	54
6	250+25	12	6	WB	8.0	20	54
7	250+70	12	6	WB	8.0	20	42
8	250+70	12	6	WB	8.0	20	54
9	251+35	12	6	WB	8.0	20	42
10	251+35	12	6	WB	8.0	20	54
11	252+15	12	6	WB	8.0	20	42
12	252+15	12	6	WB	8.0	20	54
13	253+55	12	6	WB	8.0	20	42
SUBTOTAL					102.7	256	612
15% SUBTOTAL					15.4	38.4	91.8
TOTAL					118.1	294.4	703.8
ROUNDED TOTAL					119	295	704

BUTT JOINT REMOVALS							
LOCATION			BUTT JOINT			HMA SURFACE REMOVAL-BUTT JOINT (SY)	PCC SURFACE REMOVAL-BUTT JOINT (SY)
			LENGTH (FT)	WIDTH (FT)	AREA (SY)		
COLLINSVILLE RD							
246+06.86	TO	246+56.86	50.00	48-51	275.0	275.0	
255+25.20	TO	255+75.20	50.00	VARIES	544.6		544.6
IL 157 SB RAMP							
2617+97.62	TO	2618+37.62	40.00	14.00	62.2		62.2
CHURCH ENTRANCE							
00+00.00	TO	00+05.00	5.00	60.00	33.3	33.3	
ROUNDED SUBTOTAL						309	607
GROTEFENDT RD							
00+22.00	TO	00+52.00	30.00	20-50	116.7	116.7	
29+97.00	TO	30+27.00	30.00	20.00	66.7	66.7	
ROUNDED SUBTOTAL						184	0
TOTAL						493	607

LONGITUDINAL PARTIAL DEPTH PATCHING							
APPROXIMATE LOCATION			WIDTH (FT)	LENGTH (FT)	EB/WB	LONGITUDINAL PARTIAL DEPTH REMOVAL, 2" (FT)	LONGITUDINAL PARTIAL DEPTH PATCHING (TON)
247+87	TO	250+67	2	280	WB	280.0	7.0
252+90	TO	254+10	2	120	EB	120.0	3.0
SUBTOTAL						400.0	10.0
15% SUBTOTAL						60.0	1.5
TOTAL						460.0	11.4
ROUNDED TOTAL						460	12

MEDIAN REMOVAL PARTIAL DEPTH						
LOCATION			LENGTH (FT)	WIDTH (FT)	AREA (SF)	MEDIAN REMOVAL PARTIAL DEPTH (SF)
IL 157 SB RAMP						
2617+17.62	TO	2618+37.62	109.00	2'-24"	1426.0	1426.0
TOTAL						1426.0
ROUNDED TOTAL						1426

INLET, CURB, & MEDIAN REHABILITATION												
LOCATION	INLETS TO BE ADJUSTED WITH NEW FRAME AND GRATE (SPECIAL)	COMB. CONC. C&G M-6.06 (FT)	COMB. C&G REMOVAL (FT)	CLASS C PATCHES, TYPE I, 8 INCH (SY)	DOWEL BARS 5/8" (EACH)	CONCRETE MEDIAN, TYPE SM-6.06 (SPECIAL) (SF)	CONCRETE MEDIAN SURFACE, 4" (SF)	MEDIAN REMOVAL (SF)	RELOCATE SIGN PANEL ASSEMBLY, TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY, TYPE B (EACH)	TELESCOPING STEEL SIGN SUPPORT (FT)	BASE FOR TELESCOPING STEEL SIGN SUPPORT (EACH)
COLLINSVILLE RD												
247+95	1			0.62	5	24.2		24.2				
250+25		11.0				118.2	86.5	216.7	1		9.5	1
251+21	1	22.0		0.62	5	123.2	185.9	332.1		1	9.5	1
254+82	1	71.2	71.2	0.62	5		121.1	121.1				
TOTAL		3	104.2	71.2	1.9	265.6	393.5	694.1	1	1	19.0	2
ROUNDED TOTAL		3	105	72	2	266	394	695	1	1	19	2

TEMPORARY RAMP SCHEDULE						
LOCATION			TEMP RAMP			TEMPORARY RAMP (SY)
STA.	TO	STA.	LENGTH (FT)	WIDTH (FT)	AREA (SY)	
COLLINSVILLE RD						
246+06.86	TO	246+15.19	5.83	43.00	27.9	27.9
255+66.87	TO	255+75.20	5.83	130.00	84.2	84.2
IL 157 SB RAMP						
2618+29.29	TO	2618+37.62	5.83	14.00	9.1	9.1
TOTAL						121.1
ROUNDED TOTAL						122

PAVEMENT MARKINGS																				
LOCATION		LENGTH	THERMOPLASTIC PAVEMENT MARKING & TEMPORARY PAVEMENT MARKINGS							LETTERS & SYMBOLS (SF)	PAVEMENT MARKING REMOVAL - WATER BLASTING (SF)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (EACH)	RAISED REFLECTIVE PAVEMENT MARKERS (EACH)	SHORT TERM PAVEMENT MARKING (2 LIFTS) (FT)	SHORT TERM PAVEMENT MARKING REMOVAL (SF)	PAINT PAVEMENT MARKING CURB, 6" (YELLOW) (FT)	PAINT PAVEMENT MARKING CURB, 6" (WHITE) (FT)	PAINT PAVEMENT MARKING - RAISED MEDIAN (YELLOW) (SF)	CURB REFLECTORS (AMBER) (EACH)	CURB REFLECTORS (CRYSTAL) (EACH)
			4"				8"													
STATION	TO	STATION	SOLID WHITE LINE (FT)	SKIP-DASH WHITE CENTERLINE (FT)	2'-6" SKIP-DASH WHITE (FT)	SOLID YELLOW LINE (FT)	SOLID WHITE LINE (FT)	DIAGONALS WHITE (FT)	SOLID WHITE STOP BARS (FT)											
COLLINSVILLE RD																				
246+06.86	TO	246+56.86	50.00	100.0	13.0	26.0	100.0						79.7	3	3	36.4	6.1			
246+56.86	TO	247+90.00	133.14	266.3	68.0	266.3							200.2	16	16	96.8	16.1			
247+90.00	TO	250+25.00	235.00	470.0	118.0	470.0							352.7	12	12	85.5	14.2	96.0	83.1	23
250+25.00	TO	251+15.00	90.00	180.0	46.0								75.3	6	6	32.7	5.5			
251+15.00	TO	252+55.00	140.00	280.0	70.0	280.0							210.0	8	8	50.9	8.5	48.0		
252+55.00	TO	253+46.00	91.00	273.0	46.0	182.0							31.2	13	13	49.6	8.3			
253+46.00	TO	254+65.00	119.00	476.0	60.0	238.0							31.2	27	27	64.9	10.8			49
254+65.00	TO	255+05.00	40.00	160.0		80.0							80.0	8	8	21.8	3.6			
255+05.00	TO	255+60.00	55.00	365.0		160.0			44.0	31.2	294.2	18	18	33.6	5.6	75.0	139.0			14
IL 157 SB RAMP																				
2614+20.00	TO	2617+20.00	300.00	300.0		300.0							200.0	0	0	0.0	0.0	48.0		
2617+20.00	TO	2618+37.62	117.62	117.6				117.6	208.9				326.5	12	12	42.8	7.1	32.0		
SUB-TOTAL			2987.9	421.0	26.0	2076.3	117.6	208.9	44.0	93.6	2306.0	123	123	515.1	85.8	267.0	171.0	157.4	72	14
TOTAL					5511.2		117.6	208.9	44.0	93.6	2306.0	123	123	515.1	85.8	438.0	157.4		86	
ROUNDED TOTAL					5512		118	209	44	94	2306	123	123	516	86	438	158		86	

RESURFACING SCHEDULE																	
LOCATION			PROPOSED ROADWAY WIDTH SURFACE			PROPOSED ROADWAY WIDTH BINDER			LENGTH	SURFACE AREA	BINDER AREA	BIT. MAT'L (TACK COAT) LIFT 1	BIT. MAT'L (TACK COAT) LIFT 2	LEVELING BINDER, N 70 (MACHINE METHOD) LIFT	LEVELING BINDER, N 70 (MACHINE METHOD) HMA SHOULDER STRIP	HMA SURFACE COURSE MIX D, N 70	LONGITUDINAL JOINT SEALANT
			STA ₁	STA ₂	AVG	STA ₁	STA ₂	AVG									
STA.	TO	STA.	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(SQ YD)	(SQ YD)	(POUND)	(POUND)	(TON)	(TON)	(TON)	(FT)	
COLLINSVILLE RD																	
246+06.86	TO	246+56.86	43.15	40.15	41.65	43.35	40.35	41.85	50.00	231.39	232.50	104.6	52.1	9.8	0.0	22.7	150.0
246+56.86	TO	247+91.25	42.15	50.15	46.15	42.35	50.35	46.35	134.39	689.12	692.11	311.4	155.1	29.1	7.1	67.5	403.2
247+91.25	TO	250+28.73	49.15	51.15	50.15	49.35	51.35	50.35	237.48	1323.29	1328.57	597.9	297.7	55.8	12.5	129.7	475.0
250+28.73	TO	250+38.00	67.15	67.15	67.15	67.35	67.35	67.35	9.27	69.16	69.37	31.2	15.6	2.9	0.5	6.8	46.4
250+38.00	TO	250+98.00	66.15	67.15	66.65	66.35	67.35	66.85	60.00	444.33	445.67	200.6	100.0	18.7	1.6	43.5	300.0
250+98.00	TO	251+09.26	68.15	68.15	68.15	68.35	68.35	68.35	11.26	85.26	85.51	38.5	19.2	3.6	0.6	8.4	56.3
251+09.26	TO	251+31.95	51.15	51.15	51.15	51.35	51.35	51.35	22.69	128.95	129.46	58.3	29.0	5.4	1.2	12.6	45.4
251+31.95	TO	252+91.50	51.15	63.15	57.15	51.35	63.35	57.35	159.55	1013.14	1016.69	457.5	228.0	42.7	8.4	99.3	478.6
252+91.50	TO	253+59.54	63.15	63.15	63.15	63.35	63.35	63.35	68.04	477.41	478.93	215.5	107.4	20.1	3.6	46.8	204.1
253+59.54	TO	255+75.20	VARIES	VARIES	VARIES	VARIES	VARIES	VARIES	215.66	1686.69	1686.69	759.0	379.5	70.8	5.7	165.3	647.0
IL 157 SB RAMP																	
2614+48.00	TO	2617+17.62	15.65	15.65	15.65	15.85	15.85	15.85	269.62	468.84	474.83	213.7	105.5	19.9	7.1	45.9	0.0
2617+17.62	TO	2618+37.62	15.15	15.15	15.15	15.35	15.35	15.35	120.00	202.00	204.67	92.1	45.5	8.6	3.2	19.8	0.0
IL 157 SB RAMP MEDIAN																	
2617+17.62	TO	2618+37.62	26.00	2.00	14.00	26.00	2.00	14.00	120.00	158.44	158.44	71.3	35.7	6.7	0.0	15.5	180.0
CHURCH ENTRANCE																	
00+00.00	TO	00+05.00	60.00	60.00	60.00	60.00	60.00	60.00	5.00	33.33	33.33	15.0	7.5	1.4	0.0	3.3	0.0
ROUNDED SUBTOTAL												3167	1578	296	52	688	2986
GROTEFENDT RD																	
00+22.00	TO	00+47.00	50.13	20.13	35.13	50.13	20.13	35.13	25.00	97.58	97.58	43.9	22.0	0.0	0.0	8.2	50.0
00+47.00	TO	30+27.00	20.13	20.13	20.13	20.13	20.13	20.13	2980.00	6665.27	6665.27	2999.4	1499.7	0.0	0.0	559.9	2980.0
ROUNDED SUBTOTAL												3044	1522	0	0	569	3030
TOTAL												9311		348		1257	6016

1. QUANTITIES FOR BITUMINOUS MATERIAL (TACK COAT) AT THE HMA LIFT APPLICATION RATE OF 0.025 LB/ SQ FT.
2. QUANTITIES FOR BITUMINOUS MATERIAL (TACK COAT) ON GROTEFENDT RD HAVE BEEN PROVIDED TO ACCOMMODATE SLOPE CORRECTION LIFTS.

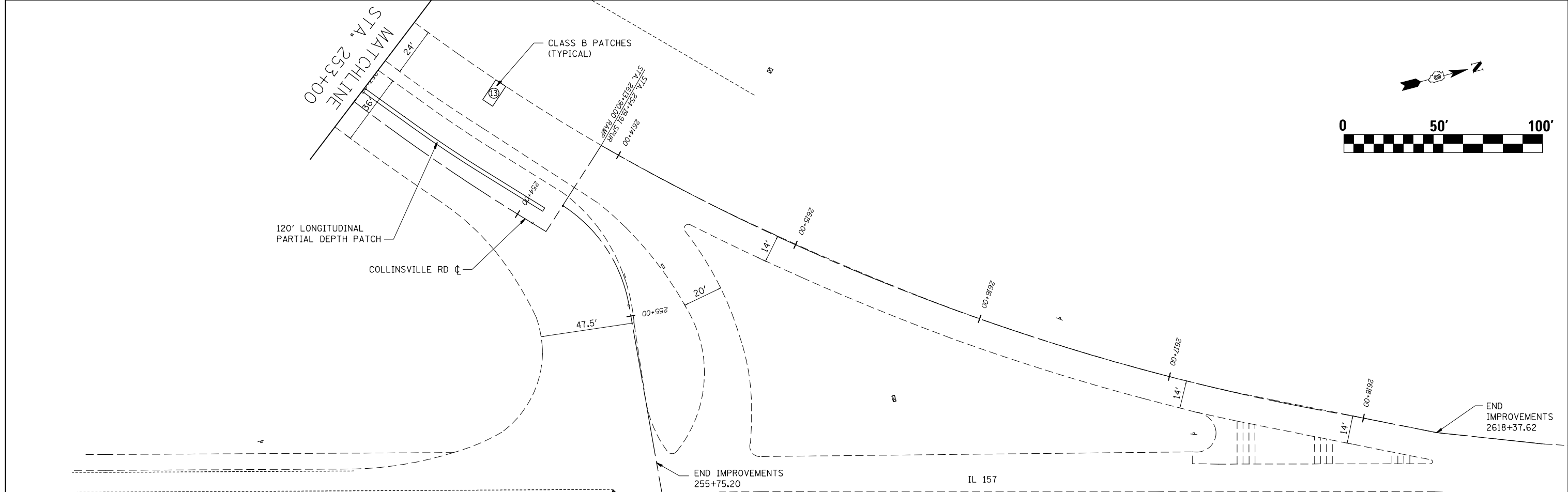
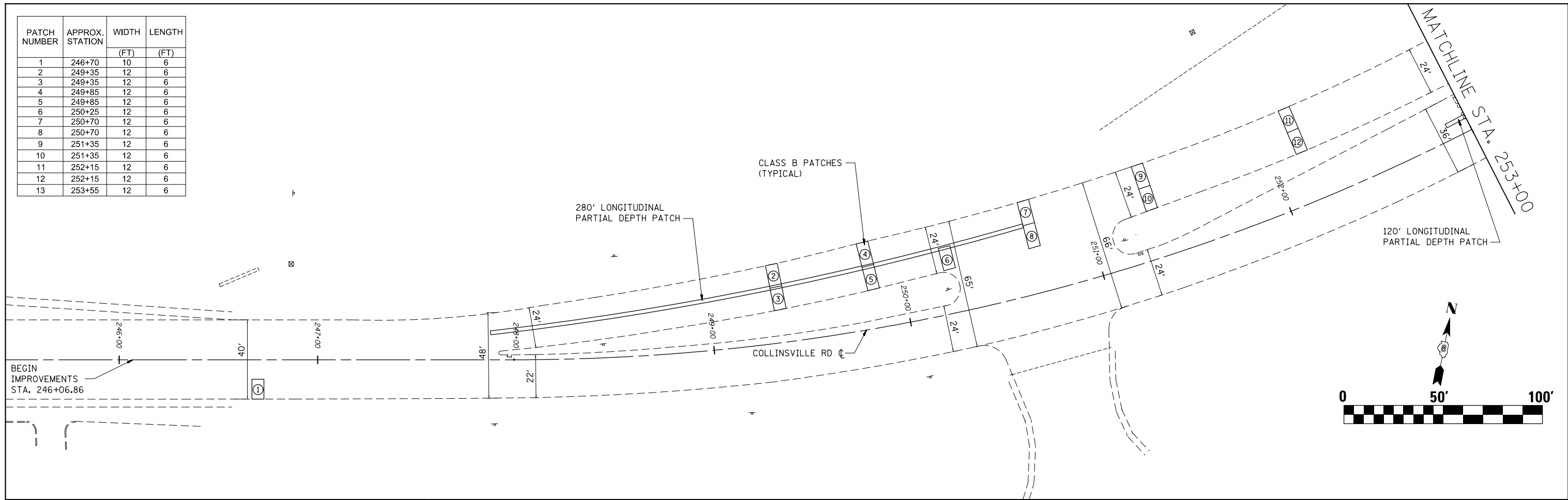
SHOULDER SCHEDULE														
LOCATION			LENGTH	PROPOSED WIDTH HMA			PROPOSED WIDTH AGG.			PROP. AREA AGG.	PROP. AREA HMA	BIT. MAT'LS (TACK COAT)	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS
				STA1	STA2	AVG	STA1	STA2	AVG					
STA.	TO	STA.	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(POUNDS)	(TON)	(TON)	
COLLINSVILLE RD														
246+06.86	TO	246+56.86	50	8	8	8					44.44	20.0	6.2	
246+56.86	TO	250+38.00	381				12	12	12	508.19		74.1		
250+38.00	TO	250+98.00	60				6	6	6	40.00		5.8		
250+98.00	TO	254+54.00	356				12	12	12	474.67		69.2		
254+54.00	TO	255+75.20	115	3	3	3	6	6	6	76.67	38.33	17.3	5.4	
IL 157 SB RAMP														
2614+05.74	TO	2618+37.62	432				6	6	6	287.92		42.0		
ROUNDED SUBTOTAL												38	203	12
GROTEFENDT RD														
00+22.00	TO	00+47.00	25				4	4	4	11.11		1.9		
00+47.00	TO	30+27.00	2980				4	4	4	1324.44		231.8		
ROUNDED SUBTOTAL												0	234	0
TOTAL												38	437	12

1. QUANTITIES FOR AGGREGATE WEDGE ON GROTEFENDT RD HAVE BEEN DOUBLED FOR VARYING SLOPE CORRECTION LIFT THICKNESS.

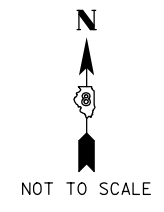
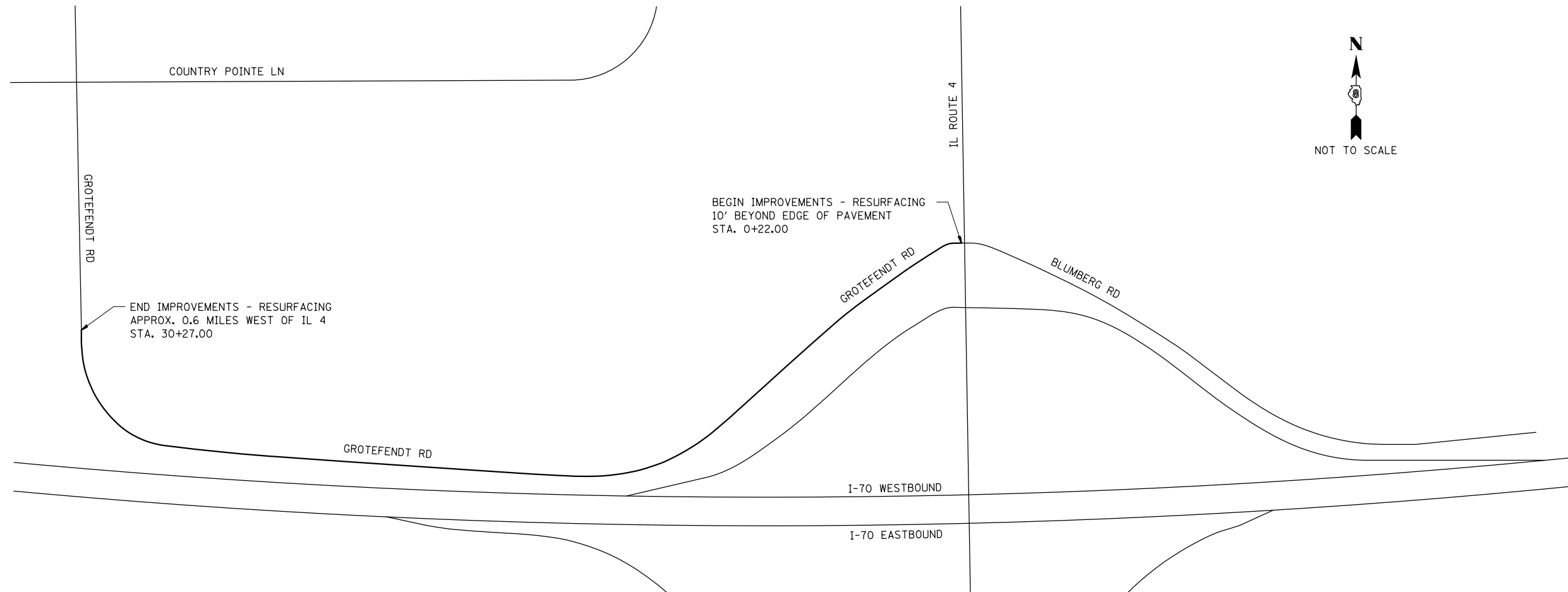
ESTIMATED SLOPE CORRECTION BINDER LIFTS					
LOCATION	STATION	LENGTH	AREA ¹	VOLUME ²	LEVELING BINDER, N 70 (MACHINE METHOD)
GROTEFENDT RD		FT	SF	CF	TON
BUTT JOINT	0+52		0.56		
		478		512.66	38.3
TANGENT	5+30		1.59		
		295		510.72	38.1
PC	8+25		1.87		
		225		453.09	33.8
MID	10+50		2.16		
		225		518.06	38.7
PT	12+75		2.45		
		675		1753.31	130.9
TANGENT	19+50		2.75		
		625		1568.75	117.1
PC	25+75		2.28		
		225		459.00	34.3
MID	28+00		1.81		
		197		242.14	18.1
PT - BUTT JOINT	29+97		0.65		
TOTAL					449.3
ROUNDED TOTAL					450

1. CROSS-SECTIONAL AREA BELOW SURFACE COURSE REQUIRED TO RE-ESTABLISH CROWN. QUANTITY BASED ON RUTTING SECTIONS.
2. VOLUME GENERATED USING AVERAGE END-AREA METHOD.

PATCH NUMBER	APPROX. STATION	WIDTH	LENGTH
		(FT)	(FT)
1	246+70	10	6
2	249+35	12	6
3	249+35	12	6
4	249+85	12	6
5	249+85	12	6
6	250+25	12	6
7	250+70	12	6
8	250+70	12	6
9	251+35	12	6
10	251+35	12	6
11	252+15	12	6
12	252+15	12	6
13	253+55	12	6



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PATCHING PLAN (LOCATION 1)		RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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#MODELNAME#		CHECKED -	REVISED -				TO STA.	CONTRACT NO. 76J84		ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -								



GROTEFENDT RD (LOCATION 2)
NOT TO SCALE

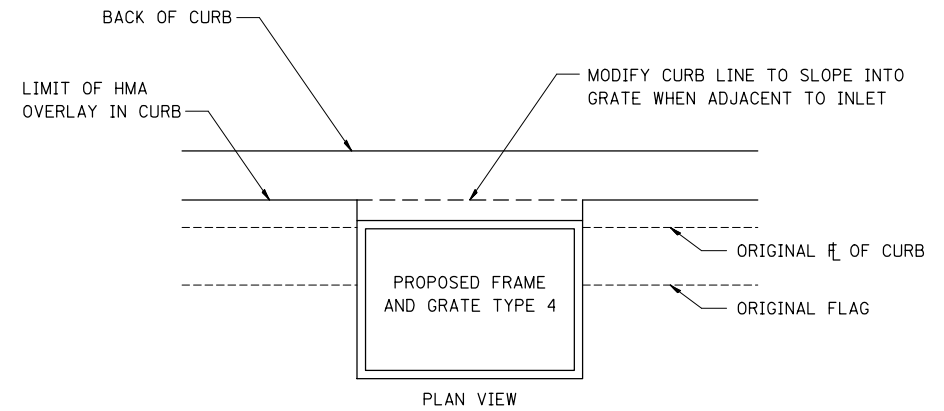
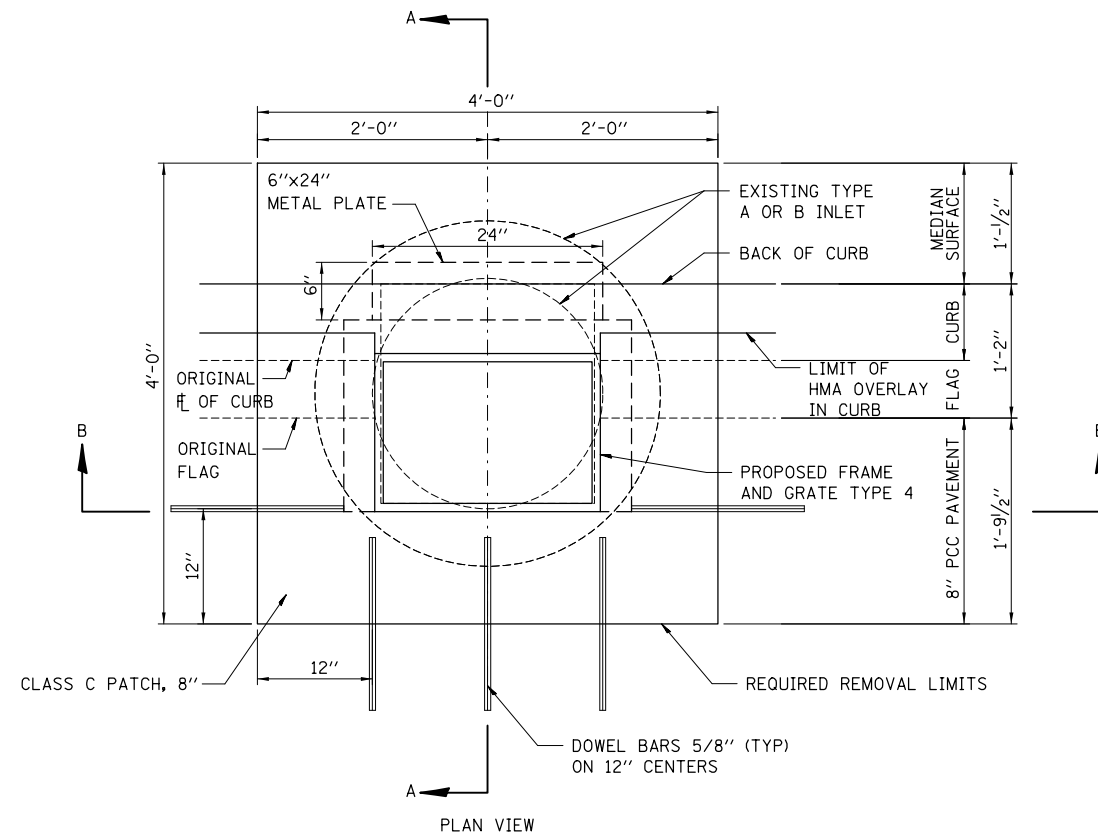
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\$MODELNAME\$	PLOT DATE = 12/8/2016		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

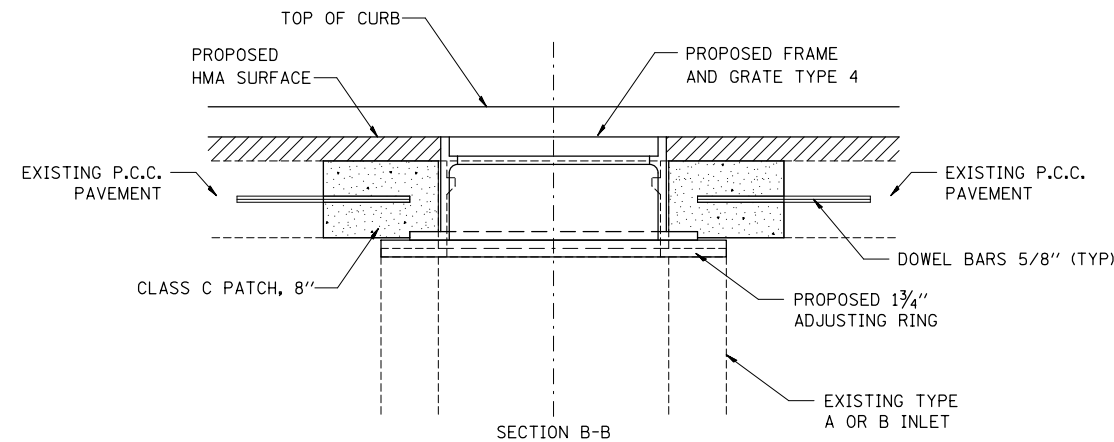
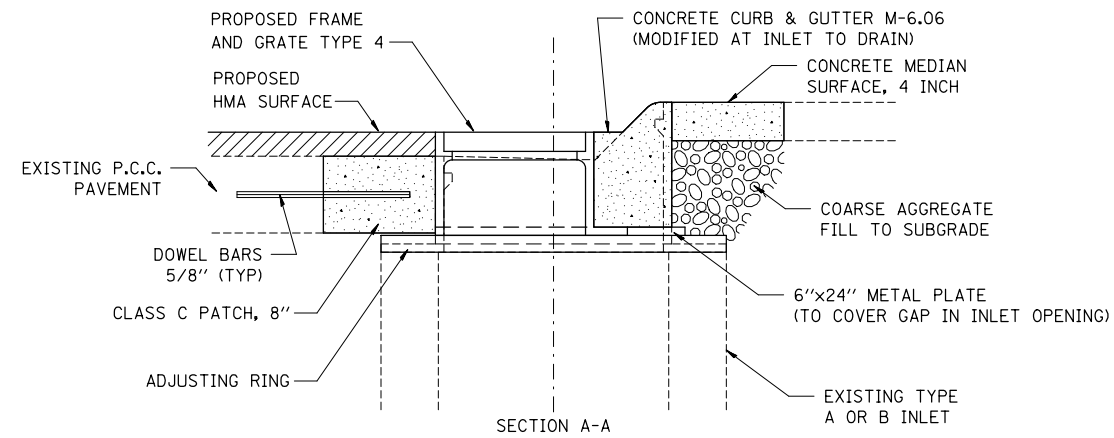
**LOCATION MAP
(LOCATION 2)**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST. 8 RESURF. 2017-3	MADISON	17	11
			CONTRACT NO. 76J84	
ILLINOIS FED. AID PROJECT				



PROPOSED CURB AT INLET
 NOT TO SCALE
 (EXISTING INLET NOT SHOWN FOR CLARITY)



PROPOSED INLET IMPROVEMENTS
 NOT TO SCALE

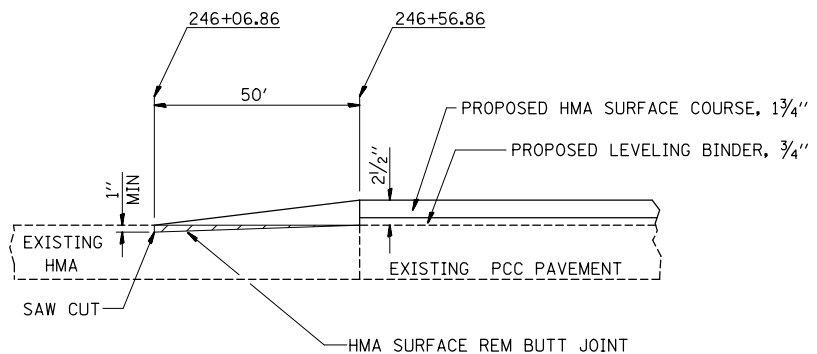
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	PLOT DATE = 12/8/2016	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

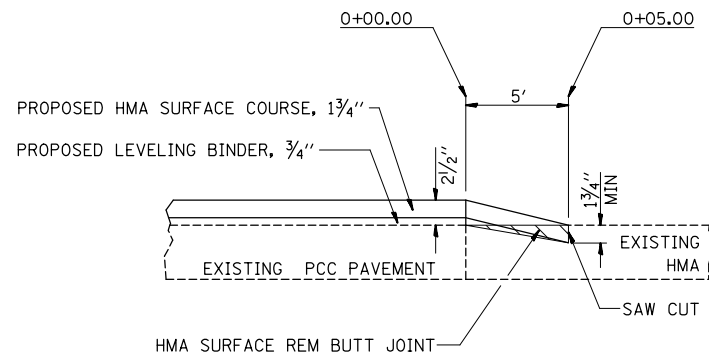
DRAINAGE DETAILS

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

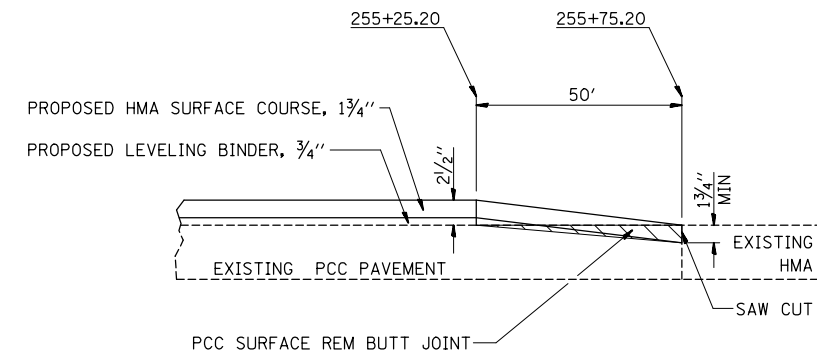
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VAR.	DIST. 8 RESURF. 2017-3	MADISON	17	12
			CONTRACT NO. 76J84	
ILLINOIS FED. AID PROJECT				



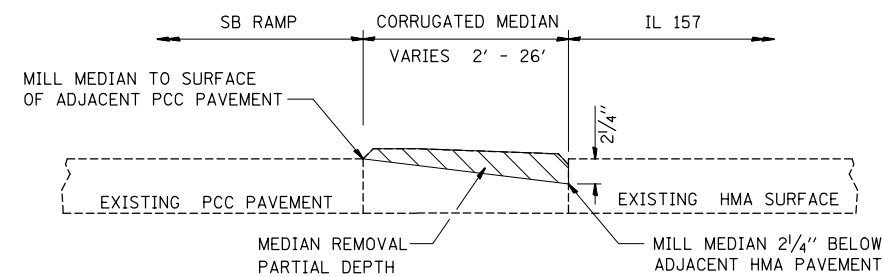
PROPOSED HMA BUTT JOINT
ON COLLINSVILLE RD
NOT TO SCALE



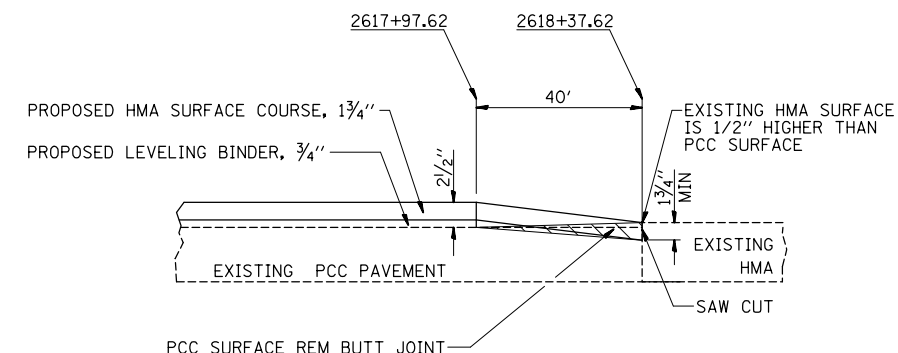
PROPOSED HMA BUTT JOINT
AT CHURCH ENTRANCE
NOT TO SCALE



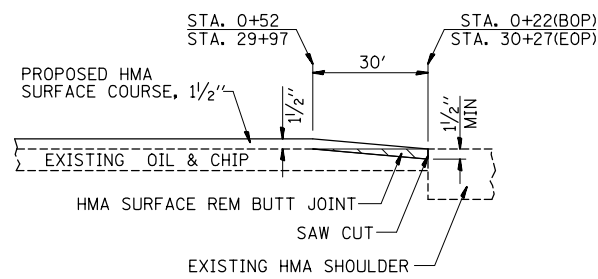
PROPOSED PCC BUTT JOINT
AT IL 157 INTERSECTION
NOT TO SCALE



PROPOSED MEDIAN REMOVAL
PARTIAL DEPTH
NOT TO SCALE

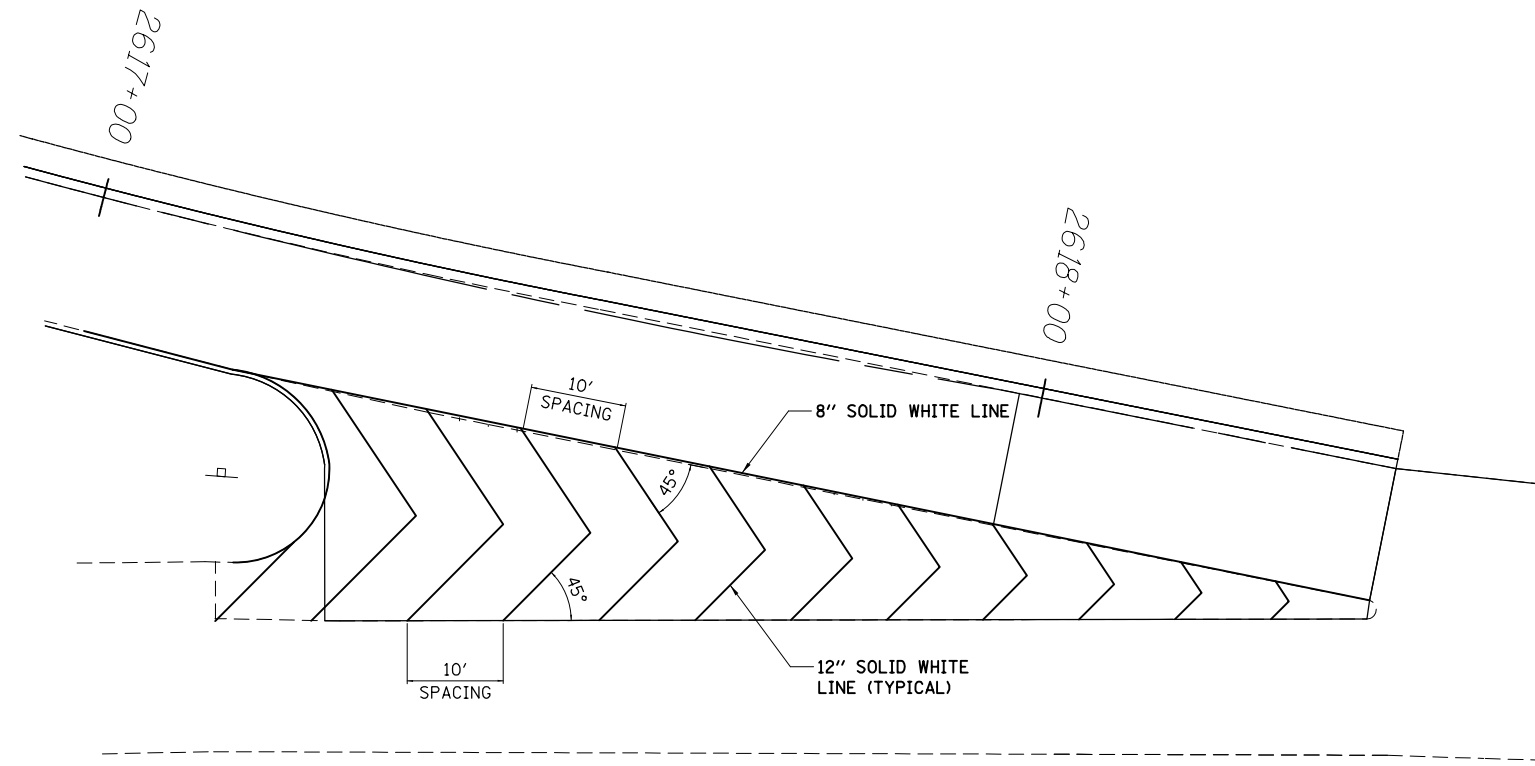


PROPOSED PCC BUTT JOINT
AT IL 157 SOUTHBOUND RAMP
NOT TO SCALE

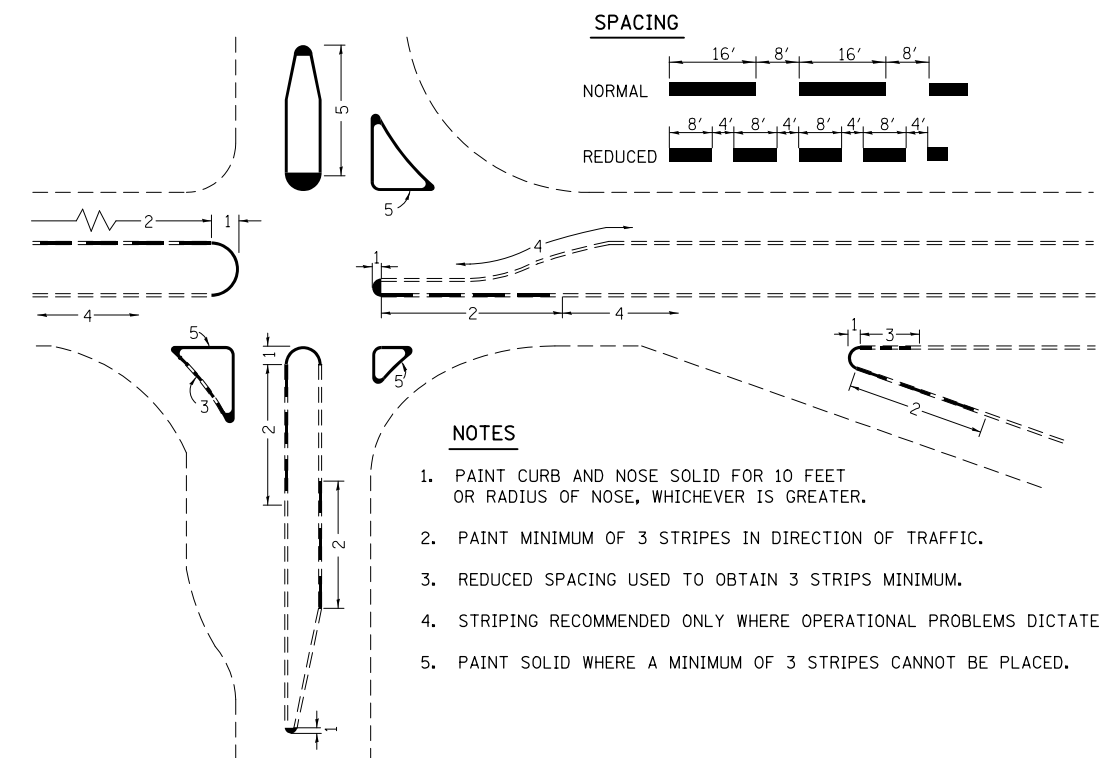


PROPOSED HMA BUTT JOINTS
ON GROTEFENDT ROAD
NOT TO SCALE

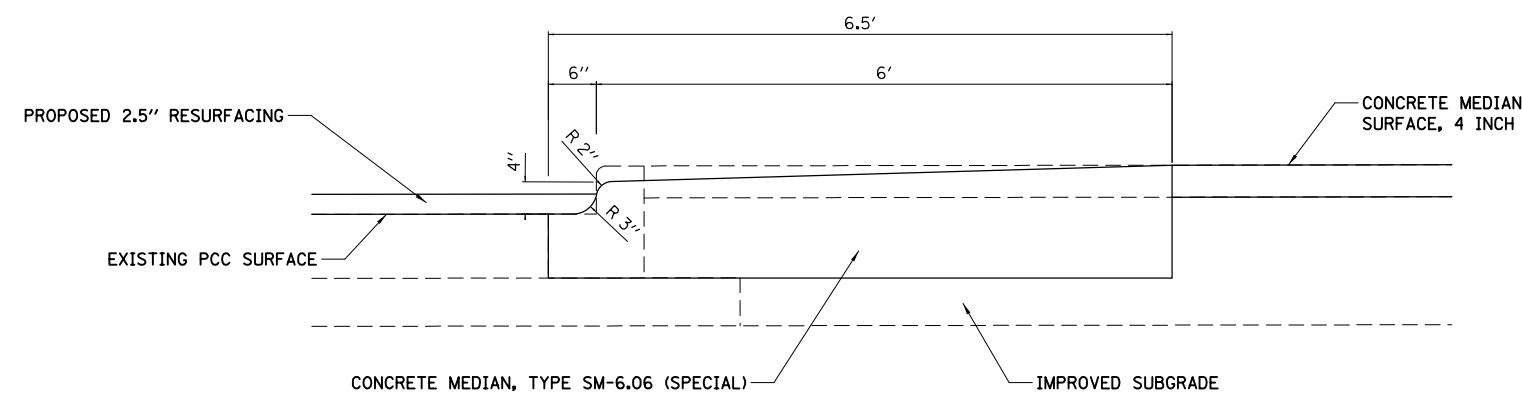
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Default		DATE -	REVISED -		CONTRACT NO. 76J84								
					ILLINOIS FED. AID PROJECT								



PROPOSED PAVEMENT MARKINGS DETAIL
NOT TO SCALE



CURB MARKING DETAIL
NOT TO SCALE



**MODIFIED NOSE ON
CONCRETE MEDIAN, TYPE SM-6.06**
NOT TO SCALE

FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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		DATE -	REVISED -
MODELNAME	PLOT DATE = 12/8/2016		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS DETAILS			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

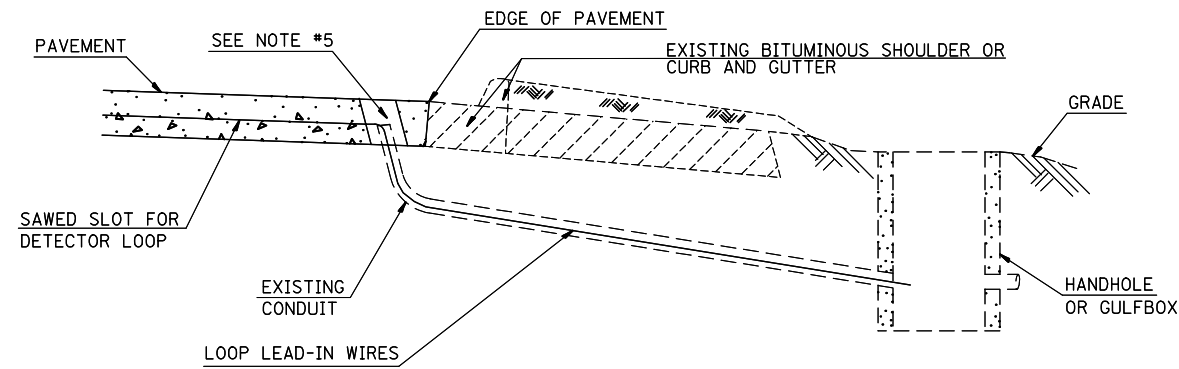
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST. 8 RESURF. 2017-3	MADISON	17	15
CONTRACT NO. 76J84				
ILLINOIS FED. AID PROJECT				

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS"
FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.

SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES
IN EXISTING CONDUITS.

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	IL 157 & COLLINSVILLE RD.
CODE NO	ITEM	UNIT		
80300100	LOCATING UNDERGROUND CABLE	FOOT	20	20
88600600	DETECTOR LOOP REPLACEMENT	FOOT	568	568



DETAIL A
(NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.
6. LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

DETECTOR LOOP REPLACEMENT LEGEND

- ☒ EX. HANDHOLE
- EX. DETECTOR LOOP
- ☒ EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- ▭ PROPOSED DETECTOR LOOP

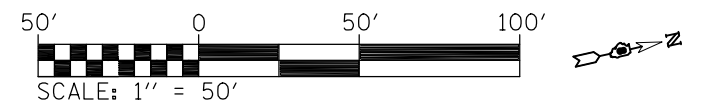
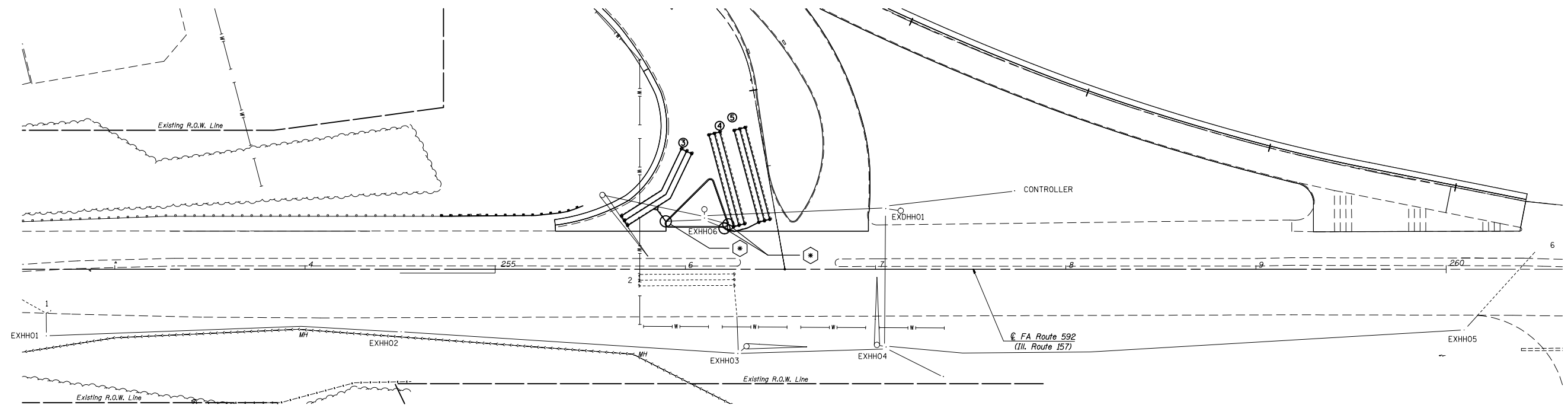
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PLOT SCALE = 59.8038' / in.	CHECKED -	REVISED -	•			VARIOUS	CONTRACT NO. 76J84							
PLOT DATE = 12/8/2016	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT								

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. NB CCO	A	6 x 6	7	501.8	3.5
2. NBLT CD	A	6 x 50(Q)	3-6-3	1006.0	6.6
3. EBRT CD	C	6 x 50(Q)	3-6-3	892.7	4.0
4. EBLT CD A	C	6 x 50(Q)	3-6-3	828.5	2.6
5. EBLT CD B	C	6 x 50(Q)	3-6-3	828.0	2.5
6. SB CCO	B	6 x 6	6	305.7	1.5

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

* =SEE DETAIL "A"



FILE NAME =	USER NAME = freimurphd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT IL 157 & COLLINSVILLE RD.	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 59.8038' / in.	CHECKED -	REVISIONS			CONTRACT NO. 76J84				
	PLOT DATE = 12/8/2016	DATE -	REVISIONS			ILLINOIS FED. AID PROJECT				