04-27-2018 LETTING ITEM 004

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE

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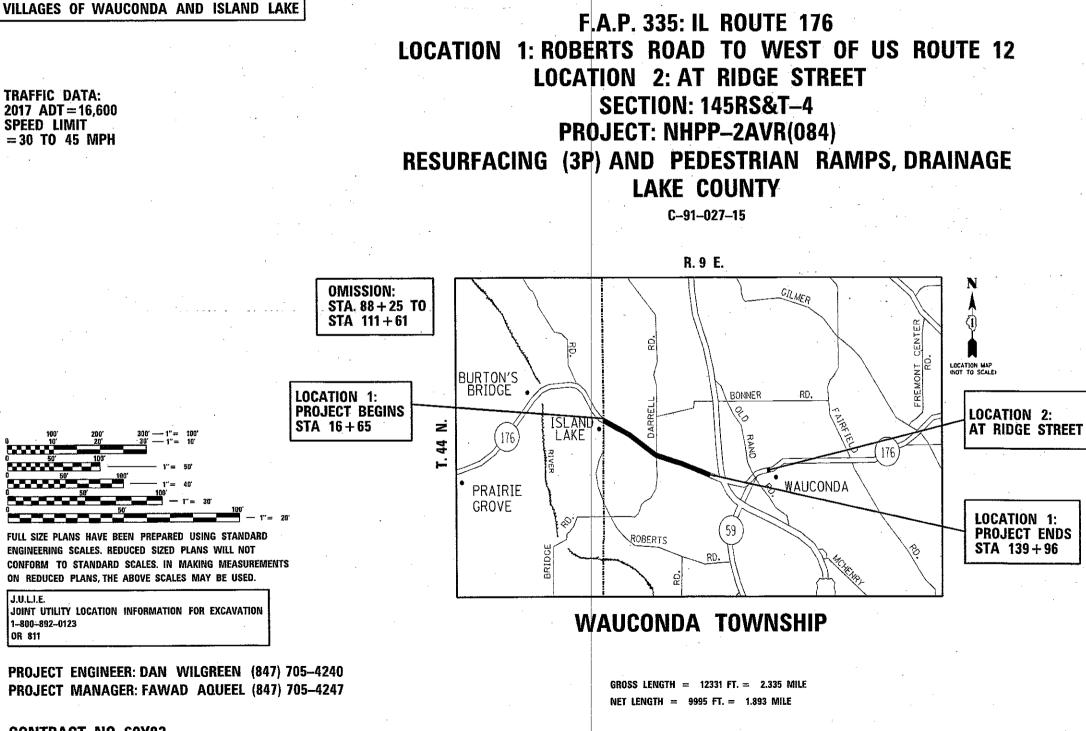
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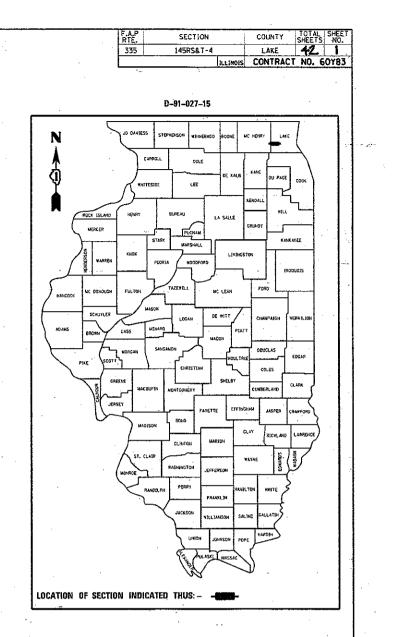
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED **HIGHWAY PLANS**



CONTRACT NO. 60Y83

OR 811



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED FECRILAGY 1 20 18 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION PRINTED BY THE AUTHORITY **OF THE STATE OF ILLINOIS**

INDEX (DF SHEETS	<u>STATE</u>	E STANDARDS			<u>GENERAL NOTES</u>
SHEET NO.	DESCRIPTION	000001-06	STANDARD SYM	BOLS, ABBREVIATIONS & PATTERNS	1.	BEFORE STARTING ANY EXCAVAT AT (800) 892-0123 OR 811 FOR TELEPHONE, AND GAS FACILITIE
1	COVER SHEET	424001-10	PERPENDICULAR	CURB RAMPS FOR SIDEWALKS		
2	INDEX OF SHEETS, STANDARDS AND GENERAL NOTES	424011-03	CORNER PARALL	EL CURB RAMPS FOR SIDEWALKS	2.	THE CONTRACTOR SHALL COORD COMPANIES, AND THE VILLAGES
3 ~ 6	SUMMARY OF QUANTITIES	424016-04	MID BLOCK CUP	B RAMPS FOR SIDEWALKS	3.	THE CONTRACTOR WILL NOT BE OFFICE ON STATE (OF TOLLWAY FROM THE DEPARTMENT (OF IST
7 - 9	TYPICAL SECTIONS	424031-01	MEDIAN PEDEST	RIAN CROSSINGS		
10 - 14	ROADWAY AND PAVEMENT MARKING PLANS	442201-03	CLASS C & D I	PATCHES	4.	BEFORE BEGINNING ANY WORK, FUTURE REFERENCE, ALL EXIST PAVEMENT MARKERS) IN ORDER STRIPING, EXACT LOCATIONS (THE ENGINEER.
15 - 18	DRAINAGE PLAN (AT RIDGE ST)	602401-04	PRECAST MANH	QLE TYPE A 4' (1.22 M) DIAMETER		PAVEMENT MARKERS) IN ORDER STRIPING. EXACT LOCATIONS (
19 - 23	SIDEWALK DETAIL PLAN	602601-05	PRECAST REINF	ORCED CONCRETE FLAT SLAB TOP	-	
24 - 28	DETECTOR LOOP REPLACEMENT PLANS	604001-04	FRAME AND LID	S, TYPE 1	5.	IT SHALL BE THE CONTRACTOR' AND CONDITIONS EXISTING IN T OF MATERIALS.
29	DRIVEAWAY DETAILS - DISTANCE BETWEEN R.O.W AND FACE OF	606001-07	CONCRETE CURE	B TYPE B AND COMBINATION CONCRETE CURB AND GUTTER	6.	
	CURB & EDGE OF SHOULDER ≥ 15' (BD-01)	606301-04	PC CONCRETE 1	SLANDS AND MEDIANS		ALL DAMAGE TO EXISTING PAVE OUTSIDE THE REMOVAL LINE SH CONTRACTOR'S EXPENSE.
, 30	DRIVEAWAY DETAILS - DISTANCE BETWEEN R.O.W AND FACE OF CURB & EDGE OF SHOULDER < 15' (BD-02)	630001-12	STEEL PLATE E	EAM GUARDRAIL	7.	ALL PAVEMENT PATCHING, CURB
31	DETAILS FOR FRAMES AND LIDS ADJACENT WITH MILLING (BD-08)	630301-08	SHOULDER WIND	ENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS	8.	ADJUSTMENT LOCATIONS WILL E FRAMES AND GRATES ADJUSTME
32	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	701011-04	OFF-RD MOVING	OPERATIONS 2L, 2W, DAY ONLY	0.	IMPROVEMENTS SHALL BE DONE THIS CONTRACT.
33	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	701301-04	LANE CLOSURE	2L, 2W, SHORT TIME OPERATIONS	9.	THE CONTRACTOR SHALL BE REC AT ALL TIMES DURING THE CON
34	BUTT~JOINT AND HMA TAPER DETAILS (BD-32)	701306-04	LANE CLOSURE FOR SPEEDS ≽	2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, 45 MPH		. AT ALL TIMES DURING THE CON DO NOT SCALE PLANS FOR CON
35	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROAD, INTERSECTIONS	701311-03	_	2L, 2W, MOVING OPERATIONS DAY ONLY		
	AND DRIVEWAYS (TC-10)	701336-06		2L. 2W. WORK AREAS IN SERIES FOR SPEEDS > 45 MPH		TEN (10) FOOT TRANSITIONS SH AND MEDIAN ITEMS OF WORK TO FIELD, UNLESS OTHERWISE SHOV CONTRACT UNIT PRICE FOR THE
36	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	701501-06		– LOSURE 2L, 2W, UNDIVIDED		
37	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701502- 08	URBAN LANE CI	LOSURE 2L, 2W, W/ BIDIRECTIONAL LEFT TURN LANE	12	. WHEN THE MILLED PAVEMENT IS BETWEEN PASSES OF THE MILLI THE SPEED LIMIT IS 40 MPH
38	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO	701701-10	URBAN LANE CI	OSURE, MULTILANE INTERSECTION		THAN 40 MPH. WITH WRITTEN A OF 3 INCHES MAY BE ALLOWED 1:3 (V:H) OR A NOTCHED LONGIT
30	TRAFFIC) (TC-14) SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)	701801-06	SIDEWALK, COR	NER OR CROSSWALK CLOSURE		
39 40	ARTERIAL ROAD INFORMATION SIGN (TC-22)	701901- 67	TRAFFIC CONTR	OL DEVICES	13	. THE CONTRACTOR SHALL CONTA AT (847)705-4470 A MINIMUM C
40	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	725001-01	OBJECT AND TH	RMINAL MARKERS	14	. THE RESIDENT ENGINEER SHALL AT WALTER.CZARNY@ILLINOIS.GO PERMANENT PAVEMENT MARKING:
-1	(TS-05, SHEET 2 OF 7)	780001-05	TYPICAL PAVEN	ENT MARKINGS		
42	DISTRICT ONE DETECTOR LOOP INTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)	782006	GUARDRAIL AND	BARRIER WALL REFLECTOR MOUNTING DETAILS	15	 DOUBLE LANE MARKERS ARE TO "TYPICAL APPLICATIONS - RAIS SHOWN IN THE PLANS.
		886001-01	DETECTOR LOO	P INSTALLATIONS		
					16	. PAVEMENT MARKING TAPE, TYPE ON ALL FINAL SURFACES. THE REMOVAL SHALL BE INCLUDED I
					17	 BUTT JOINTS WILL BE INSTALL MEETS EXISTING PAVEMENT) AC DETAILS" SHEET INCLUDED IN T
						EXISTING BROKEN FRAMES AND

 THE CONTRACTOR AND SHA FRAMES AND LIDS WILL BI UNLESS A SEPARATE PAY	F

- 22. ALL NEW PCC SIDEWALK SHALL BE 5".

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p=1\\IL084EBIDINTEG.a11;noze.gov#P#{DOT\Document#	na/1007_Offices/District_i/Projects/01827				STATE OF ILLINOIS		•			,	335	145RS&T-4	LAKE	42 2
PLOT	T SCALE = 108.0008 17 In-	CHECKED -	REVISED -	D	EPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & GENERAL NOTES				IERAL NUTES			CONTRACT	NO. 60Y83
Jefault PLOT	T DATE = 2/1/2018	DATE -	REVISED -			SCALE:	SHEET	0F	SHEETS S	TA. TO STA.		ILLINOIS FED. A	D PROJECT	

/ATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." OR FIELD LOCATIONS OF BURIED ELECTRIC, FIES. (48 HOUR NOTIFICATION IS REQUIRED. RDINATE CONSTRUCTION ACTIVITIES WITH UTILITY ES OF WAUCONDA AND ISLAND LAKE. BE ALLOWED TO SET UP A YARD OR FIELD AY) PROPERTY WITHOUT WRITTEN PERMISSION ISTHA). , THE CONTRACTOR SHALL RETAIN AND RECORD FOR STING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE R THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR S OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY DR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS VEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS SHOWN ON THE PLANS SHALL BE REPLACED AT THE RB AND GUTTER REMOVAL AND REPLACEMENT, DRAINAGE BE DETERMINED IN THE FIELD BY THE ENGINEER. MENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE WE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY CONSTRUCTION OF THIS PROJECT. ONSTRUCTION DIMENSIONS. SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE HOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE THE PROPOSED ITEMS OF WORK SPECIFIED. IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL LLING MACHINE SHALL NOT EXCEED 1 INCHES WHERE 4 OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER N APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL ED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM GITUDINAL WEDGE IS USED. TACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR OF 72 HOURS IN ADVANCE OF BEGINNING WORK. LL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL AISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)'' PE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS HE COST OF THE PAVEMENT MARKING TAPE, TYPE III IN THE COST OF SHORT TERM PAVEMENT MARKING REMOVAL. LLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER N THE PLANS, UNLESS OTHERWISE SPECIFIED. AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE ALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT E PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD ITEM HAS BEEN PROVIDED. 19. OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS. 20. PROPOSED SIDEWALK RAMPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS AND APPLICABLE STATE HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER. 21. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION. 23. SALT TOLERANT SOD SHALL BE USED IN LIEU OF CLASS 2A SEEDING SHOWN ON THE DRAINAGE PLAN. 24. CONTACT THE IDO'T ROADSIDE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING FORESTRY WORK FOR LAYOUT.

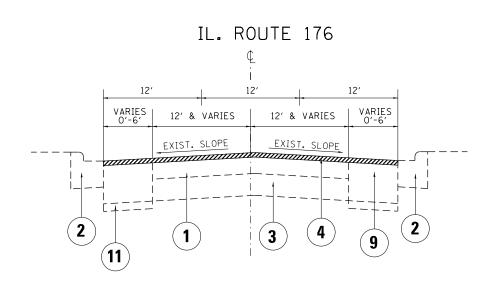
			URBAN									
	SUMMARY OF QUANTITIES					NSTRUCTION TYPE	ODE			SUMM	ARY OF QUANTITIES	
			TOTAL	80% FED	80% FED						CONTINES	_
CODE NO	ITEM	UNIT	TOTAL	20% STATE	20% STATE							
CODE NO	11 E.M	DIALI	QUANTITIES	0005	0004				CODE NO		ITEM	UNI
				LOCATION 1	LOCATION 2							
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60	60					40600400	MIXTURE FO	R CRACKS, JOINTS, AND	TON
										FLANGEWAYS		
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	6	6						·		
		_							40600827	POLYMERIZE	LEVELING BINDER (MACHINE	TON
20200100	EARTH EXCAVATION	CU YD	108	33	75					METHOD), IL	-4.75, N50	
20800150	TRENCH BACKFILL	CU YD	62		62				40600982	HOT-MIX ASF	HALT SURFACE REMOVAL - BUTT	SO YD
										JOINT		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	75	37	38					-		-
									40603335	HOT-MIX ASF	HALT SURFACE COURSE, MIX	TON
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1		· · · _ · · · _ · · _ · · _ · · _ · · _ · · _ · · _ · · · _ · / \cdot / / / / / / _ / / _ / / _ / _ / / _ / / _ / / _ / / _ / / _ / / _ / / _ / / _ / / _ / / _ / / / _ / / / _ / / / _ / / / / / _ /				"D", N50		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	55	55				_				
			22	22					40603565		HOT-MIX ASPHALT SURFACE	TON
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	55	55						COURSE, MIX	"E", N/O	
									40800029	BITIMINOUS	MATERIALS (TACK COAT)	POUND
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	55	55								
									42001300	PROTECTIVE	COAT	SO YD
25100115	MULCH, METHOD 2	ACRE	0.5	0.5								
									42400200	PORTLAND CE	MENT CONCRETE SIDEWALK 5	SO FT
25200110	SODDING, SALT TOLERANT	SQ YD	75	37	38					INCH		
							-				-	
25200200	SUPPLEMENTAL WATERING	UNIT	0. 75	0, 75			 	_	42400800	DETECTABLE	WARNINGS	SO FT
28001100												
	TEMPORARY EROSION CONTROL BLANKET	SO YD	484	484					44000159		HALT SURFACE REMOVAL, 2	SQ YD
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	3	3						1/2"		
					- ·				44000200		VEMENT REMOVAL	<u>_</u>
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	31012	31012					44000200			SO YD
									44000600	SIDEWALK REM	10VAL	SO FT
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	SUMMARY OF QUANTITIES		an a		1	NSTRUCTION TYPE	CODE		SUMMARY OF QUANTITIES					NSTRUCTION	TYPE CODE	1
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	20% STATE 0005	80% FED 20% STATE 0004 1LOCATION 2			CODE NO	ITEM	UNIT	QUANTITIES	20% STATE 0005	80% FED 20% STATE 0004 LOCATION 2			
44201811	CLASS D PATCHES, TYPE I, 14 INCH	SO YD	47	47				* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4	4				
		-							(SPECIAL) TANGENT							
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	1030	988	42											
								63200310	GUARDRAIL REMOVAL.	FOOT	200	200				
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SO YD	180	180												
								* 63301210	REMOVE AND REERECT STEEL PLATE BEAM	F 00 T	50	50			-	
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	85	85					GUARDRAIL, TYPE A							
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	223	223				* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	115	33	82			
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	83		83			* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	0.5	0.5			
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	6		6			* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1	1			
								67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
55100500	STORM SEWER REMOVAL 12"	FOOT	8		8											
55100700	STORM SEWER REMOVAL 15"	FOOT	84		84			67100100	MOBILIZATION	L SUM	1	1				
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1	EACH	1		1			70100460	TRAFFIC CONTROL AND PROTECTION.	LSUM	1	1				
	FRAME, OPEN LID								STANDARD 701306			-				
60218400	MANHOLES, TYPE A. 4'-DIAMETER, TYPE 1	EACH	3		3			70100600	TRAFFIC CONTROL AND PROTECTION.	LSUM	1	1				
	FRAME, CLOSED LID								STANDARD 701336							
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1				70102620	TRAFFIC CONTROL AND PROTECTION,	LSUM	1	I				<u> </u>
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	22	22												
								70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2												
								12			-					LTY ITEMS
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	SUMMARY OF QUANTITIES					NSTRUCTION T	YPE C	DDE	1			SUMMAR	Y OF QUANTITIES			80% 550	CO 80% FED	NSTRUCTIO	N TYPE C	DDE	
CODE NO	ITEM	UNIT	QUANTITIES	0005	80% FED 20% STATE 0004 LOCATION 2					CODE	E NO		ITEM	UNIT	TOTAL QUANTITIES	20% STATE 0005	80% FED 20% STATE 0004 LOCATION 2				
70102635	TRAFFIC CONTROL AND PROTECTION,	LSUM	1	1						* 7800	00200	THERMOPLASTIC	PAVEMENT MARKING - LINE	FOOT	39303	39299	4				
	STANDARD 701701											4"									
																					<u> </u>
70102640	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1						* 7800	00400	THERMOPLASTIC	PAVEMENT MARKING - LINE	FOOT	2728	2728			-		
	STANDARD 701801											6"									
70300100	SHORT TERM PAVEMENT MARKING	FOOT	26881	26881						* 7800	00500	THERMOPLASTIC	PAVEMENT MARKING - LINE	FOOT	345	345					_
10300100										*		8"									
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	12860	12860																	
			· · · ·							* 7800	00600	THERMOPLASTIC	PAVEMENT MARKING - LINE	FOOT	679	679					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND	SO FT	744	744								12"									
	SYMBOLS																				
										* 7800	00650	THERMOPLASTIC	PAVEMENT MARKING - LINE	FOOT	557	557					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	39299	39299		-						24″									
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2728	2728						* 7810	00100	RAISED REFLEC	CTIVE PAVEMENT, MARKER	EACH	574	574					
					-																
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	345	345						* 7820		GUARDRAIL REF	LECTORS, TYPE A	EACH	5	5					+
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	679	679		· · · ·				7830	00200	RAISED REFLEC	CTIVE PAVEMENT MARKER	EACH	490	490					
												REMOVAL				-					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	557	557																	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	6721	6721						* 8500	00200	MAINTENANCE (OF EXISTING TRAFFIC SIGNAL	EACH	1	1					
10300520	LOSENENT MOUNTAU TAFE, 1175 111 7		<i>VIL</i>	JILI																	-
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4						* 8860	00600	DETECTOR LOOP	PREPLACEMENT	FOOT	2631	2631					+
F 78000100	THERMOPLASTIC PAVEMENT MARKING -	SQ FT	744	744						* 8950	02376	REBUILD EXIS	TING HANDHOLE	EACH	1	1					
	LETTERS AND SYMBOLS																				
										* 8950		REBUILD EXIS	TING HANDHOLE TO HEAVY-DUTY	EACH	1	1					
											\mathcal{V}	HANDHOLE						-	* SPE	CIALTY I	
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		DATE -		REVISED									SCALE: SHEET NO. OF	SHEETS STA	L T	O STA.	FED. RO	AD DIST, NO. 1	LINOIS FED. AID		

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	SUMMARY OF QUANTITIES					NSTRUCTI(ON TYPE C	ODE			SUMMARY	OF QUANTITIES				CC	NSTRUCT1	ON TYPE C	ODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	20% STATE 0005	80% FED 20% STATE 0004 1 LOCATION 2					CODE NO		ITEM	UNIT	TOTAL QUANTITIES		74 to 2		Ť		
x0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM		1		í													· · · · · · · · · · · · · · · · · · ·	
-																				
X2010350	TREE REMOVAL, ACRES (SPECIAL)	ACRE	0.6	0.6										-						
	- -																			
×2020110	GRADING AND SHAPING SHOULDERS	UNIT	90	90														<u> </u>		ļ
¥2501900	SEEDING, CLASS 4 (MODIFIED)	100F	0 E											-				<u> </u>		
x2501800	SEEDING, CLASS 4 (MUDIFIED)	ACRE	0.5	0.5														<u> </u>		
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	772	772											-					
																		-		
X6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	9	9																<u> </u>
	(SPECIAL)																			
																		<u> </u>		
X6061311	CONCRETE MEDIAN SURFACE, 5 INCH	SO FT	772	772																<u> </u>
x7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	19747	19747			-													<u> </u>
																		<u>.</u>		
Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	555	555																_
	REMOVAL AND REPLACEMENT																· · · · · · · · · · · · · · · · · · ·	<u> </u>	•	<u> </u>
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	6	6																<u> </u>
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20030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4										·						
2007660	TRAINEES	HOUR	500	500																<u> </u>
			r ^ ^	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~																
20076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500																
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	lillinols.gov/FWIDDT/DocumentsVDD [®] DTTtoes/Distritot NProjects/D027/5/CADdo/Design/D027/5/ DRAB PLDT_SCALE = 100,0000 ° / In. CHEC			REVISED REVISED REVISED REVISED	-		D	ST EPARTME	ATE OF	ILLINOIS TANSPORTATI	ON	il. Route 176 (Robert Sui	IS RD. TO W/O US WMARY OF QUANTI		RIDGE ST.	F.A.P. RTE. 335	SECT 145RS&	T-4	COUNTY SHE	AL SHEE NO. 42 6







- (1) EXISTING HMA SURFACE COURSE ±61/2"
- (2) EXISTING COMB. CURB AND GUTTER
- (3) EXISTING. P.C.C. PAVEMENT ±10"
- (4) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 21/2"
- (5) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 13/4"
- 6 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (7) EXISTING AGGREGATE SHOULDER
- (8) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (9) EXISTING HMA WIDENING, 11" 12"
- (10) EXISTING AGGREGATE SUBGRADE, 12"
- (11) EXISTING SUBBASE GRANULAR MATERIAL, 4"
- (12) EXISTING HMA SHOULDER ±7"

FOR THE EXISTING HMA SURFACE, THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING PER BD-22 DETAIL.

MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
PAVEMENT	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, (IL-9.5 mm); $1\frac{3}{4}$ "	4% @ 70 GYR.	QCP
RESURFACING	POLYMERIZED LEVELING BINDER (MACHINE METHOD). IL-4.75, N50; ¾("	3.5% @ 50 GYR.	QCP
DRIVEWAYS	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5 mm), 2"	4% @ 50 GYR	QC/QA
	HMA BASE COURSE, (HMA BINDER IL-19 mm), C.E 8''	4% @ 50 GYR	QC/QA
PATCHING	CLASS D PATCH (HMA BINDER IL-19 mm), 14"	4% @ 70 GYR.	QC/QA
QMP DES	- SIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA): QUALITY COM	NTROL FOR PERFORMANC	CE (QCP)

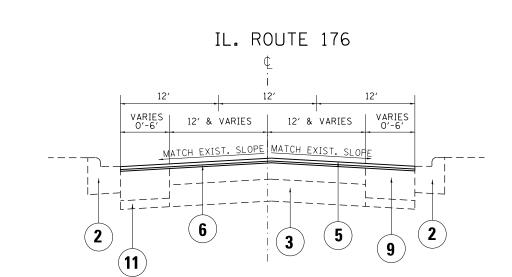
NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA. THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

NOTE 3: FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

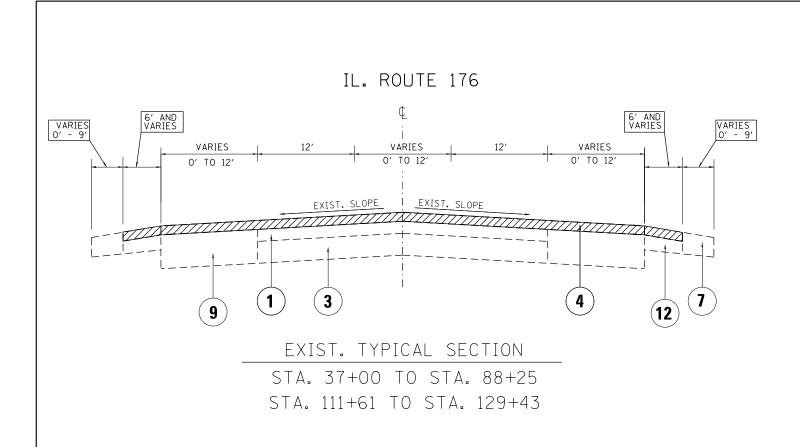
NOTE 4: QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

FILE NAME =		DESIGNED -	REVISED -		IL. BOI	UTE 176 (ROB	ERTS RD). TO W/O US 12)	AND AT RIDGE ST.	F.A.P RTE.	SECTION	COUNTY TOT	TAL SHEET
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			ITPI	CAL SECTIONS				CONTRACT NO	J. 60Y83
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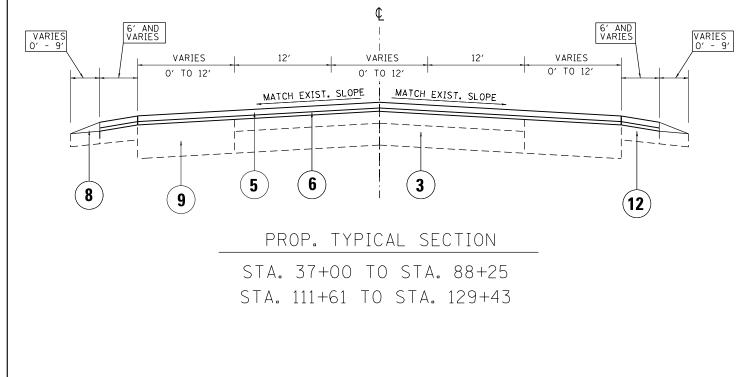


PROP. TYPICAL SECTION STA. 16+65 TO STA. 37+00

HOT-MIX ASPHALT MIXTURE REQUIREMENTS







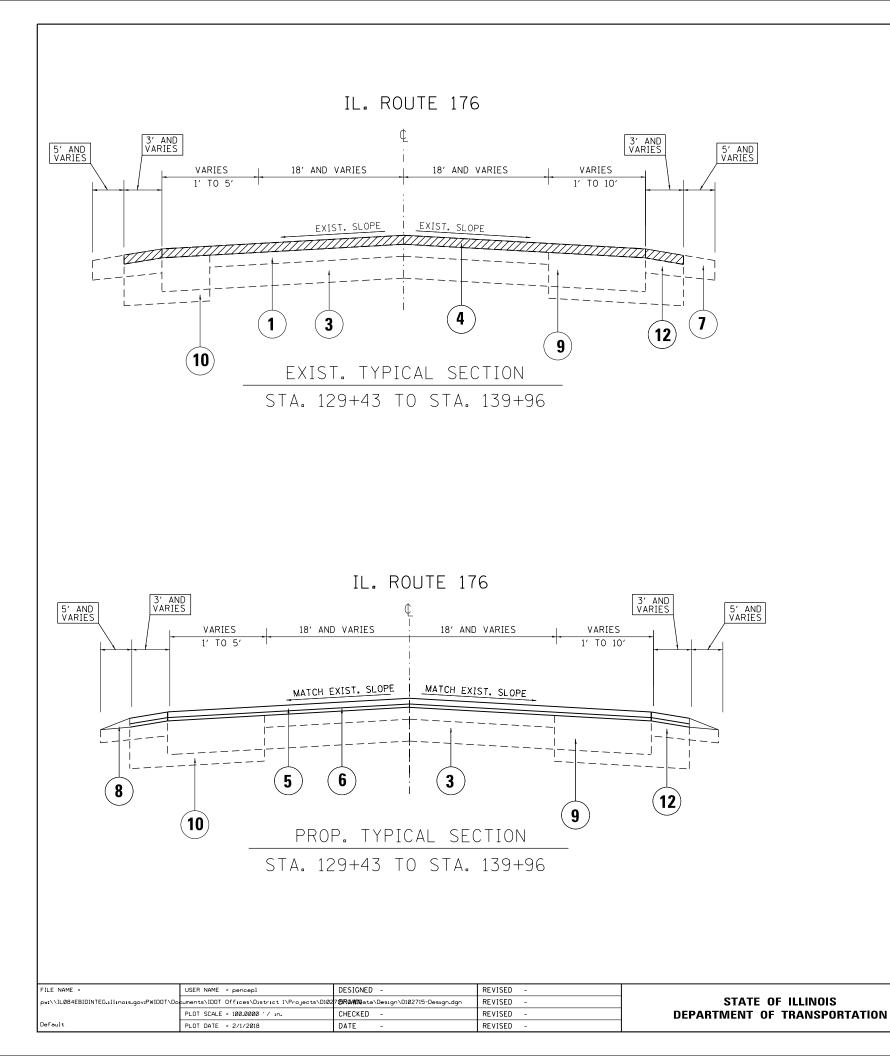
Ī	FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -		IL. ROUTE	176 (ROR	FRTS RD	TO W/O US 12)	AND AT RIDGE ST.	F.A.P RTF	SECTION	COUNTY	TOTAL SH	ET.
	pw:\\IL084EBIDINTEG.1111no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D1	27 13RGAWIN ata\Design\D102715-Design.dgn	REVISED -	STATE OF ILLINOIS				-		335	145RS&T-4	LAKE	42	8
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LEGEND:

- (1) EXISTING HMA SURFACE COURSE ±61/2"
- (3) EXISTING. P.C.C. PAVEMENT ±10"

- (7) EXISTING AGGREGATE SHOULDER
- (8)
- (9) EXISTING HMA WIDENING, 11" 12"
- (10) EXISTING AGGREGATE SUBGRADE, 12"
- (11) EXISTING SUBBASE GRANULAR MATERIAL, 4"
- (12) EXISTING HMA SHOULDER ±7"

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(2) EXISTING COMB. CURB AND GUTTER
(4) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 21/2"
(5) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 13/4"
6 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
    PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
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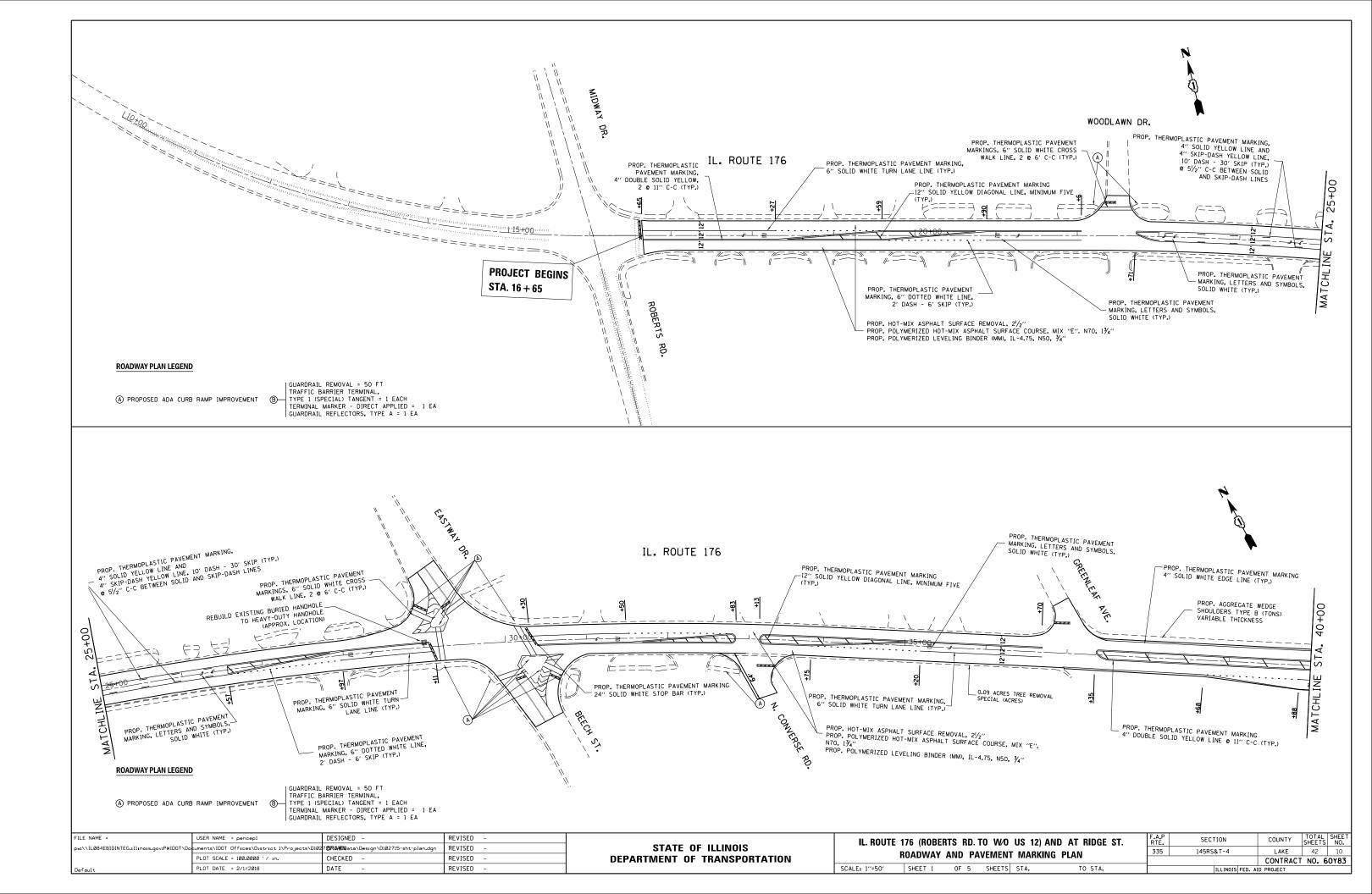
LEGEND:

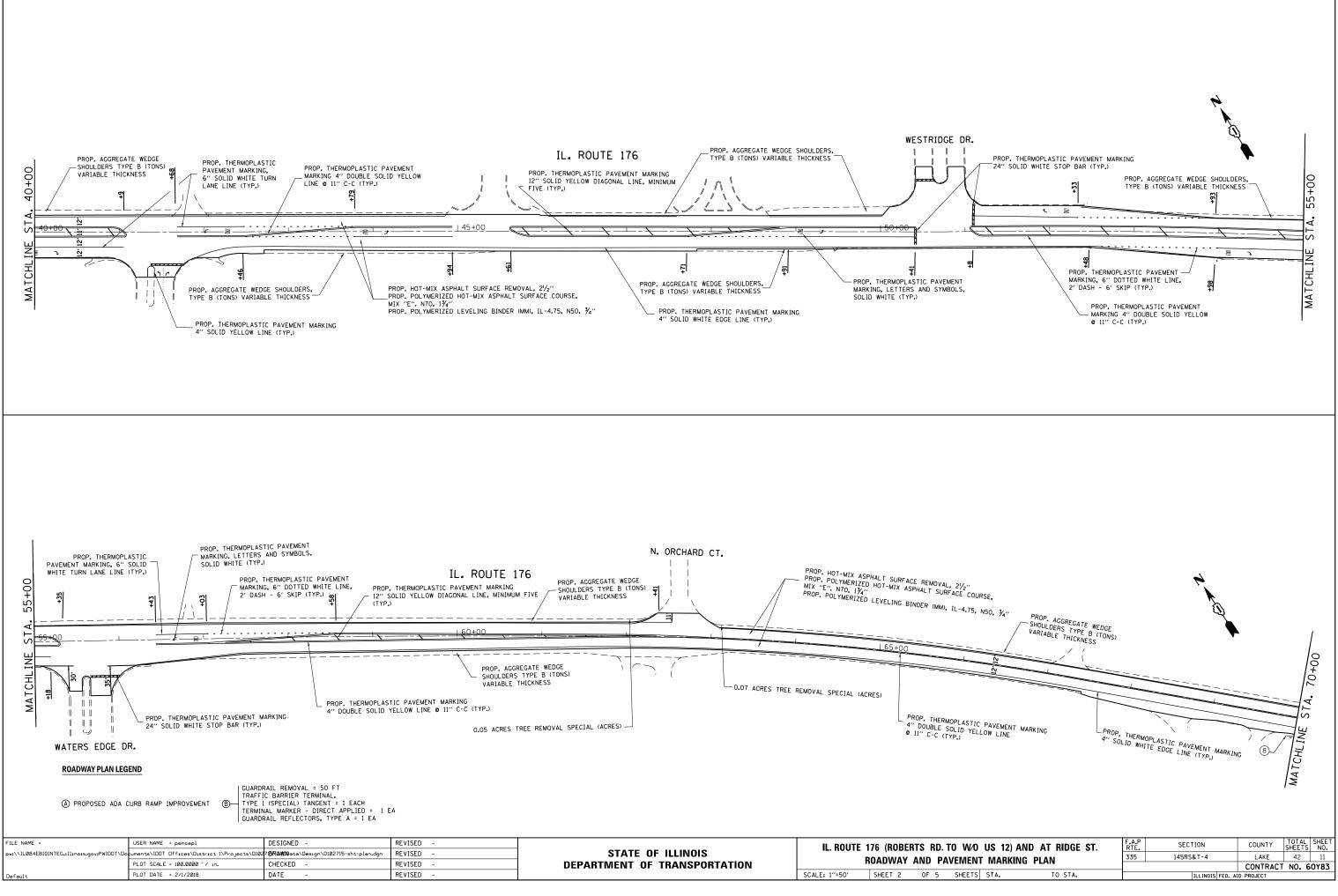
- (1) EXISTING HMA SURFACE COURSE ±61/2"
- (3) EXISTING. P.C.C. PAVEMENT ±10"

- (7) EXISTING AGGREGATE SHOULDER
- (8) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (9) EXISTING HMA WIDENING, 11" - 12"
- (10) EXISTING AGGREGATE SUBGRADE, 12"
- (11) EXISTING SUBBASE GRANULAR MATERIAL, 4"
- (12) EXISTING HMA SHOULDER ±7"

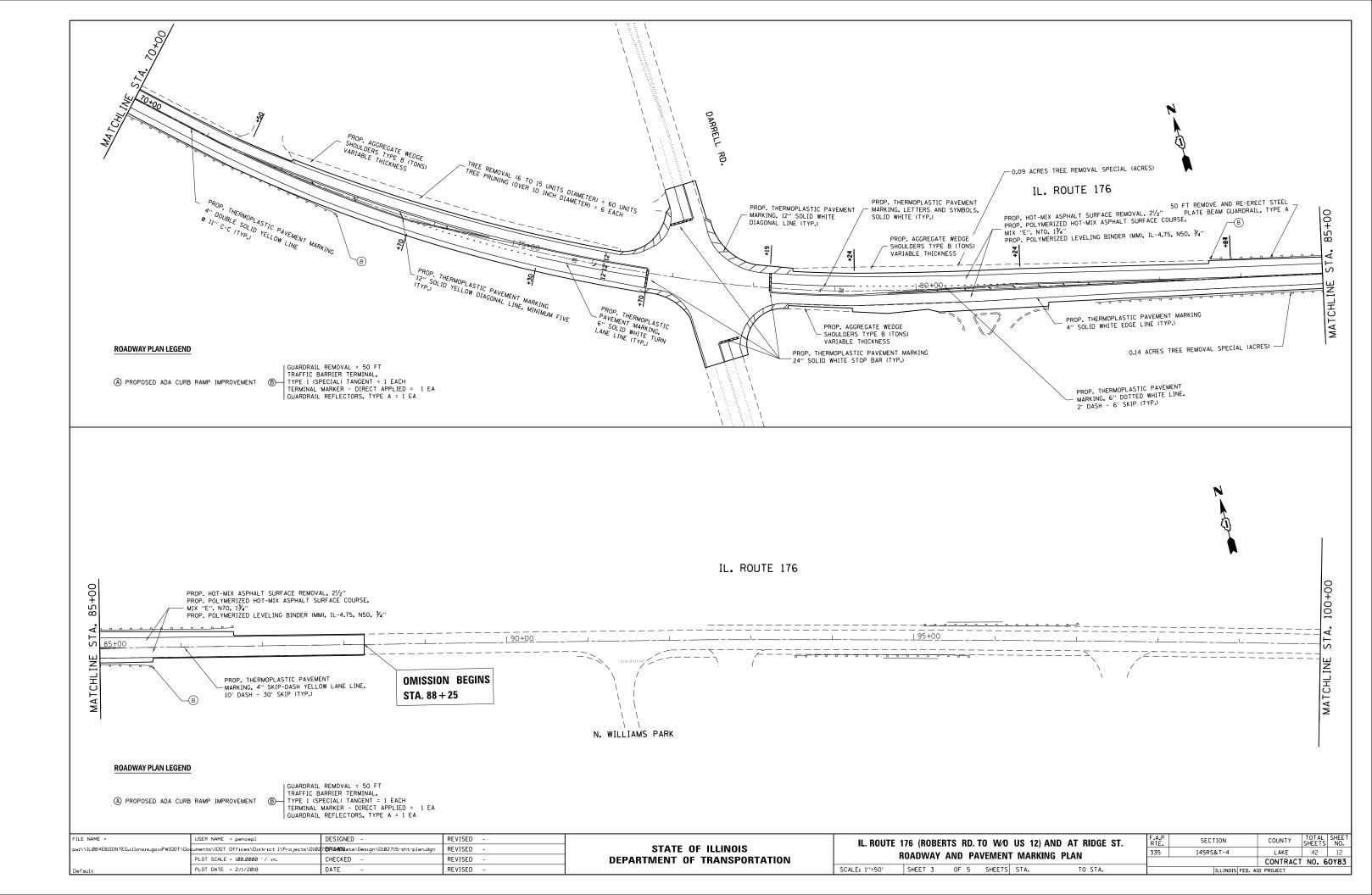
IL. ROUTE 1	76 (ROBEF	TS RD	. TO W/O	US 12) ANI) AT RIDGE ST.	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	•	τνριά	AL SECT			335	145RS&T-4	LAKE	42	9
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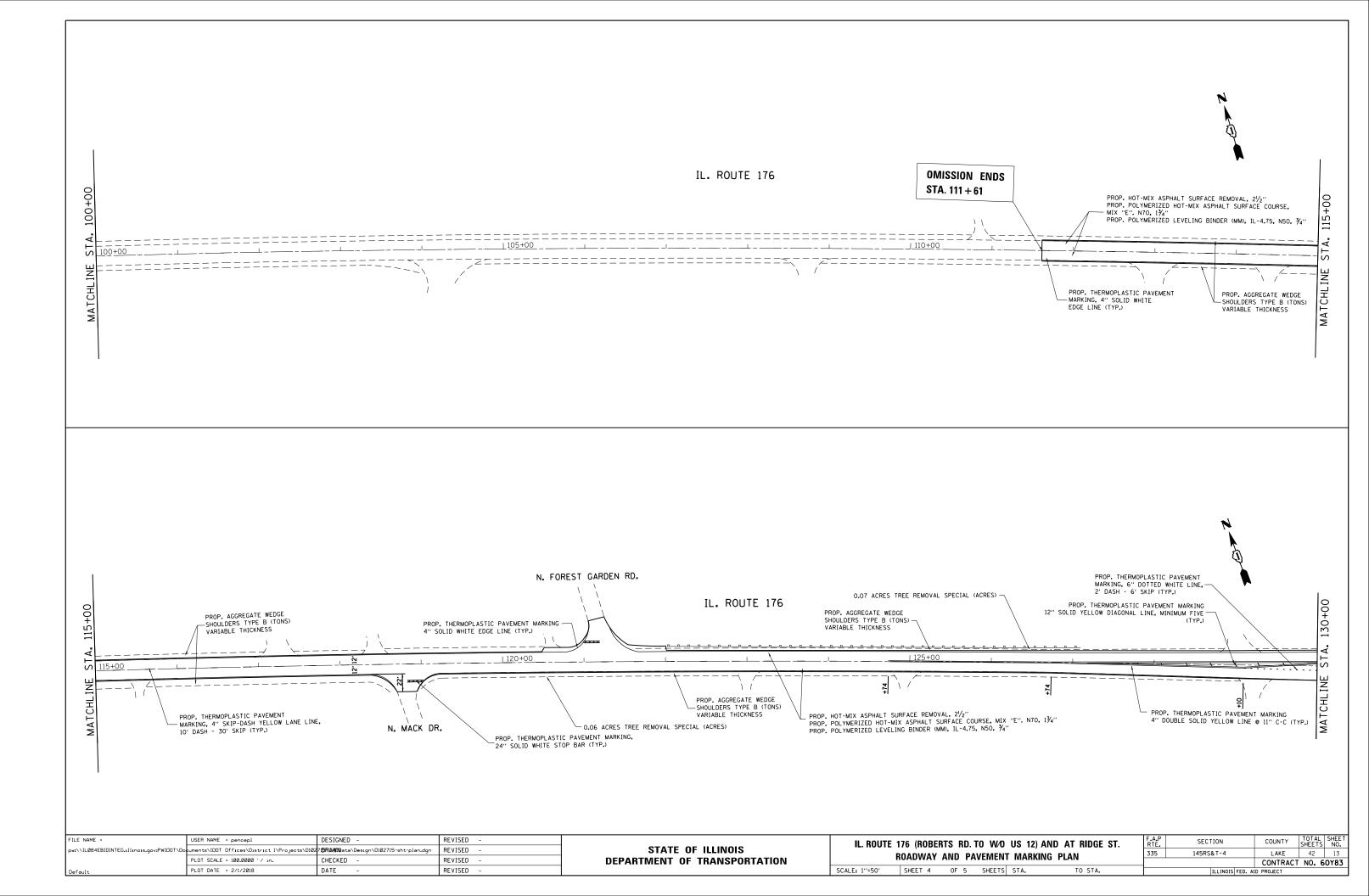
(2) EXISTING COMB. CURB AND GUTTER (4) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 21/2" (5) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 13/4" 6 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"

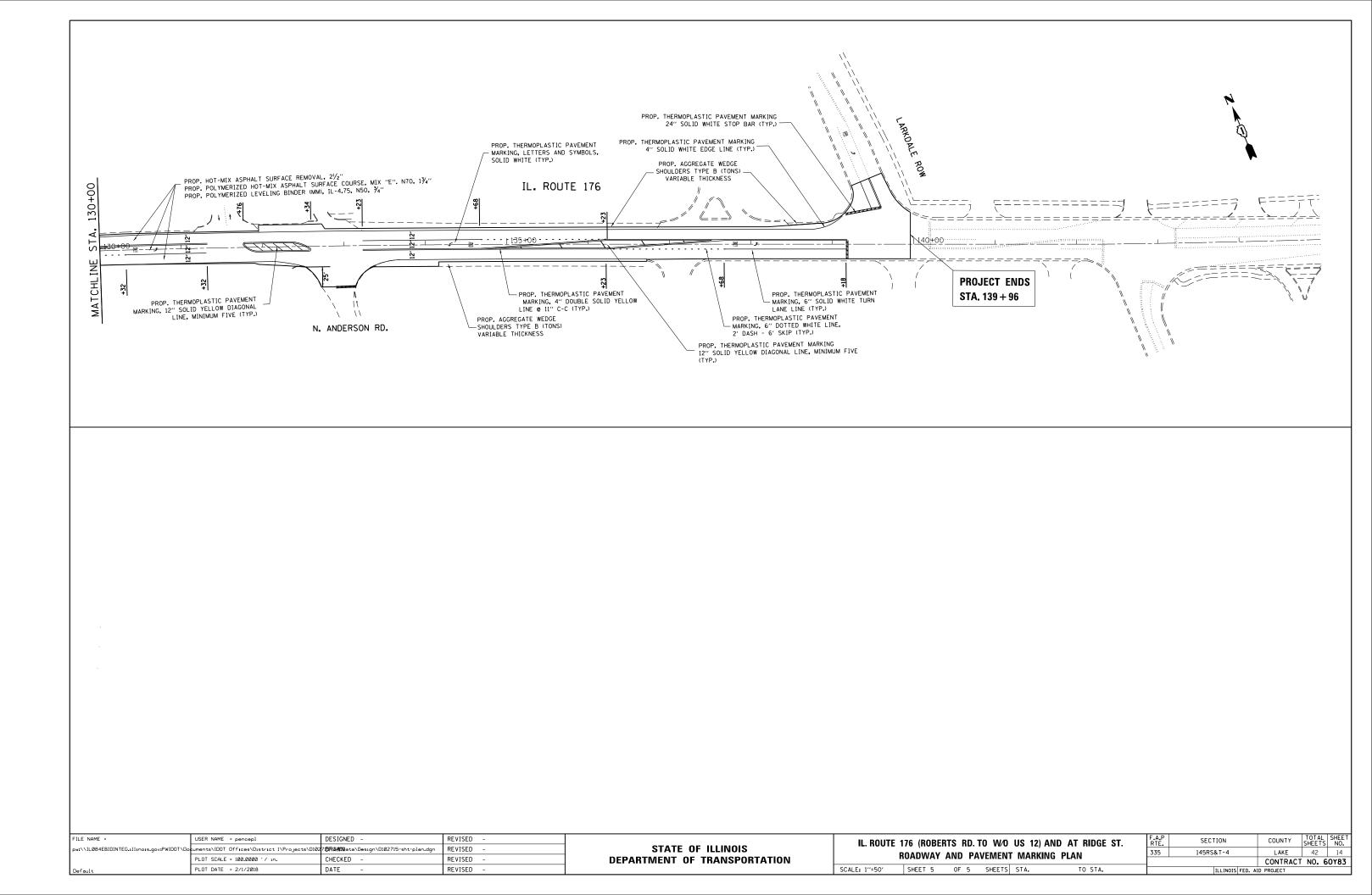


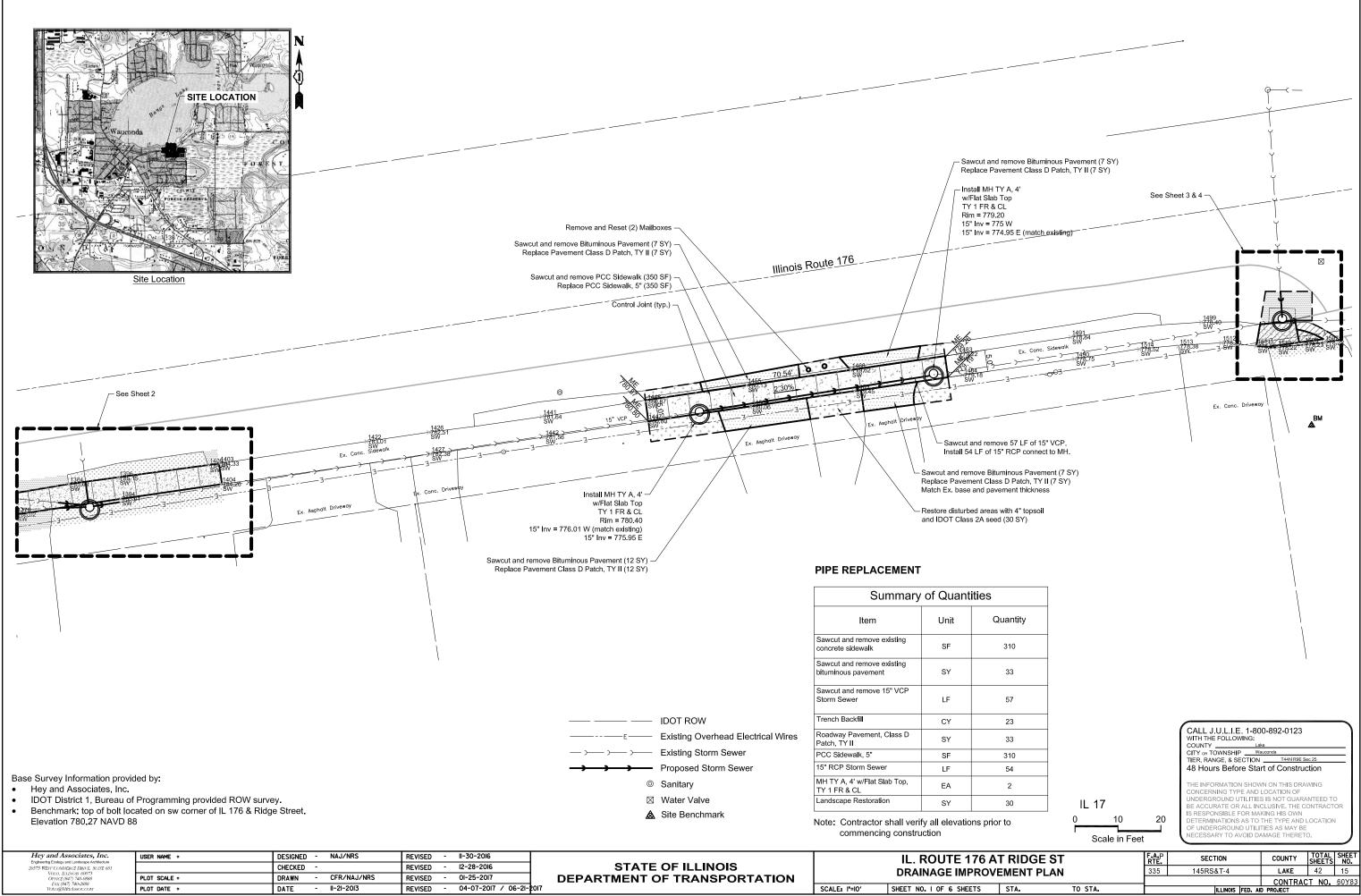


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Default	PLOT DATE = 2/1/2018	DATE –	REVISED -		SCALE: 1"=50'	SHEET 2	0F 5	SHEETS		



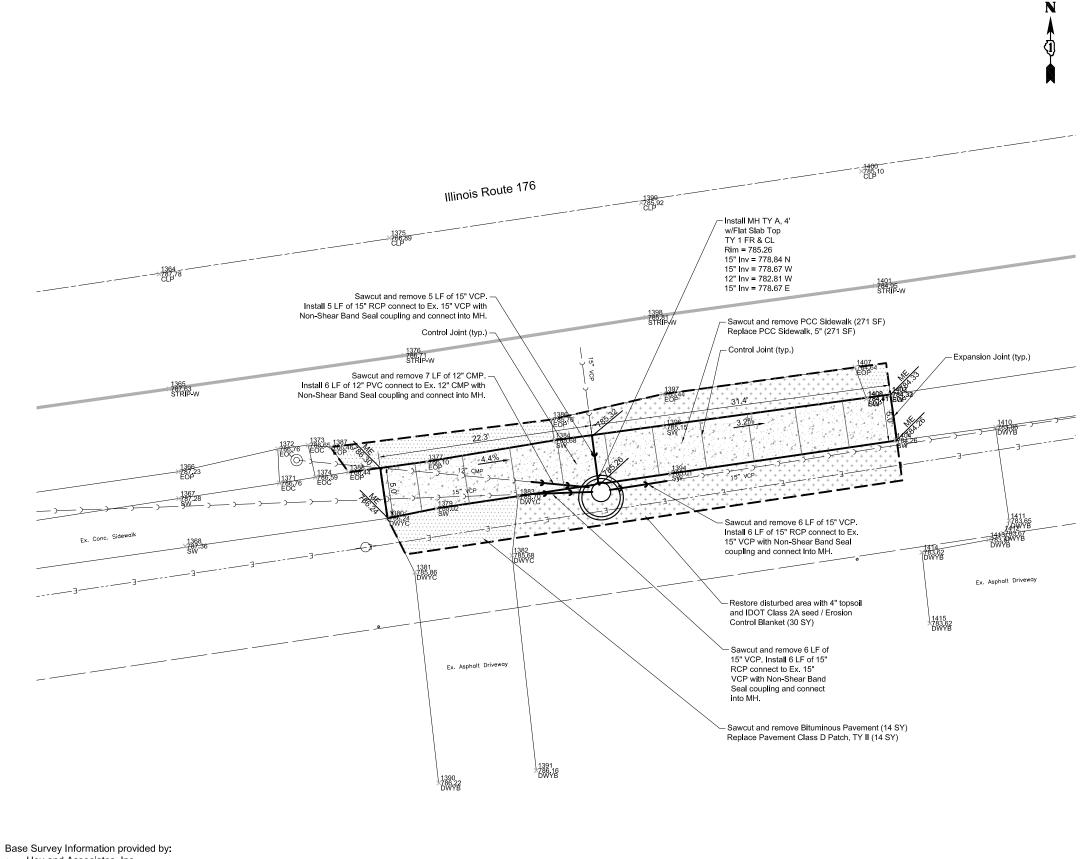






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TB152 No. 18 - Various-Various - District 1\09103AD Rte 176_F
8 IDOT PTB152 No. 18 - Various-Various - District 1\09103AD Rte 176_
TB152 No. 18 - Various-Various - District 1\09103AD Rte 176_F

Engineering Ecology and Landscape Architecture 26575 WEST COMMERCE DRIVE, SUITE 601 VOLO, ILLINOIS 60073 OFFICE (847) 740-0888 ENA (947) 740-2888	USER NAME =	DESIGNED - NAJ/NRS	REVISED - II-30-2016			IL. ROUTE 176 A	
		CHECKED -	REVISED - 12-28-2016	STATE OF ILLINOIS		DRAINAGE IMPROVE	
	PLOT SCALE =	DRAWN - CFR/NAJ/NRS	REVISED - 01-25-2017	DEPARTMENT OF TRANSPORTATION			
	PLOT DATE =	DATE - II-2I-20I3	REVISED - 04-07-2017 / 06-21-		SCALE: I"=10'	SHEET NO. I OF 6 SHEETS	



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- IDOT District 1, Bureau of Programming provided ROW survey. Benchmark: top of bolt located on sw corner of IL 176 & Ridge
- Street. Elevation 780.27 NAVD 88

Hey and Associates, Inc. Englement Ecology and Landscape Architecture 26575 WEST CONSTREEC DRIVE, SUITE 601 VOLO, LILANOS 60075 OFTICE (47) 740-0686 BAX (847) 740-0686 DAX (847) 740-2688 VOLOBIEVISSOC.COM	USER NAME =	DESIGNED - NAJ/NRS	REVISED - II-30-2016			IL. ROUTE 176 AT I	R	
		CHECKED -	REVISED - 12-28-2016	STATE OF ILLINOIS	DRAINAGE IMPROVEM			
	PLOT SCALE =	DRAWN - CFR/NAJ/NRS	REVISED - 01-25-2017	DEPARTMENT OF TRANSPORTATION		DRAINAGE IMPROVE	. 191	
	PLOT DATE =	DATE - II-2I-2013	REVISED - 04-07-2017 / 06-21-20	7	SCALE: I"=5'	SHEET NO. 2 OF 6 SHEETS	S	

UPSTREAM MANHOLE

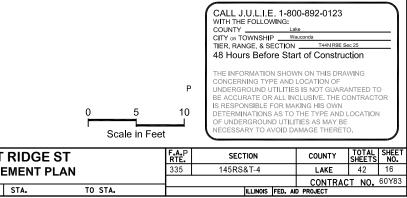
Summary of Quantities						
ltem	Unit	Quantity				
Sawcut and remove existing concrete sidewalk	SF	271				
Sawcut and remove existing bituminous pavement	SY	14				
Sawcut and remove 15" VCP Storm Sewer	LF	17				
Sawcut and Remove 12" CMP Storm Sewer	LF	7				
Trench Backfill	CY	24				
Landscape Restoration	SY	30				
PCC Sidewalk, 5"	SF	271				
Roadway Pavement, Class D Patch, TY II	SY	14				
15" RCP Storm Sewer (Includes Band Seal Coupling)	LF	17				
12" PVC Storm Sewer (Includes Band Seal Coupling)	LF	6				
MH TY A, 4' w/Flat Slab Top, TY 1 FR & CL	EA	1				

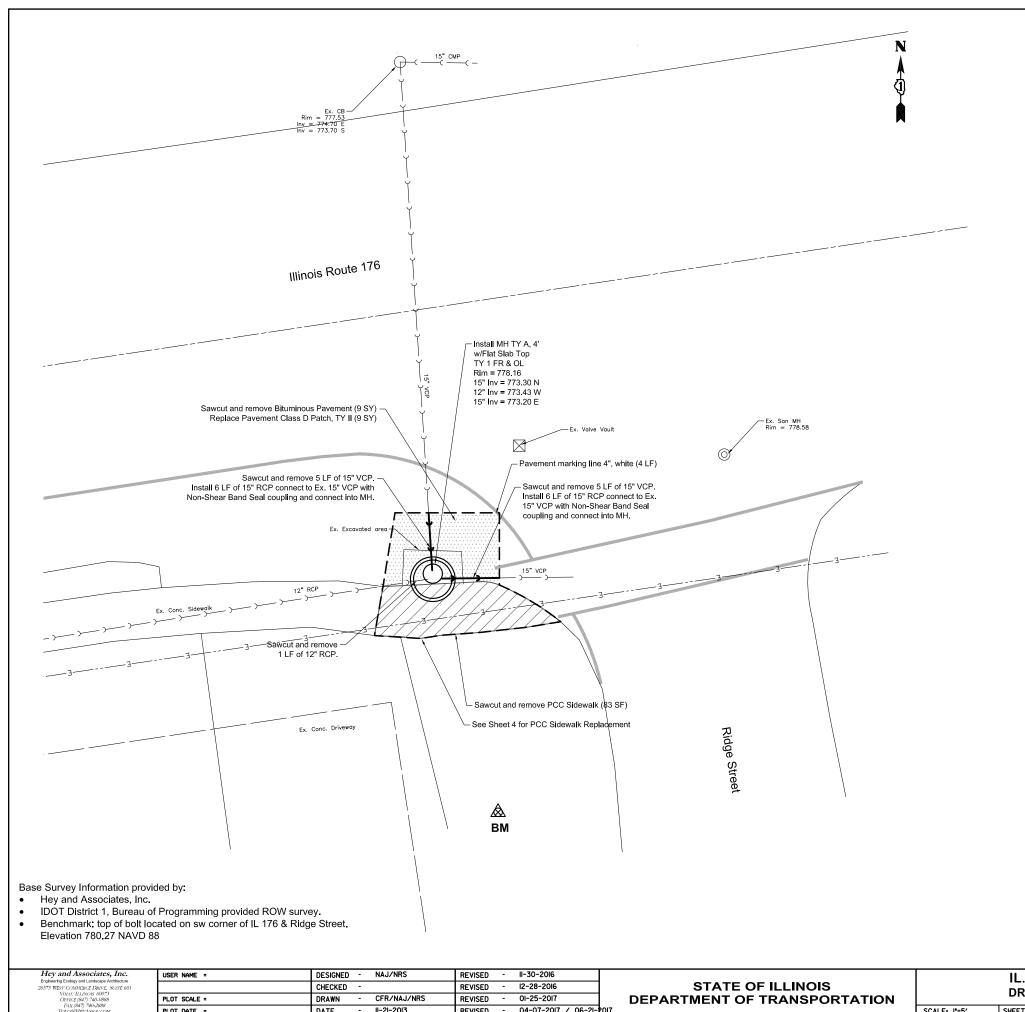
Note: Contractor shall verify all elevations prior to commencing construction





- E Existing Overhead Electrical Wires
 - − → Existing Storm Sewer
 - Proposed Storm Sewer
 - Sanitary
 - Water Valve





REVISED - 04-07-2017 / 06-21-2017

- II-2I-20I3

DATE

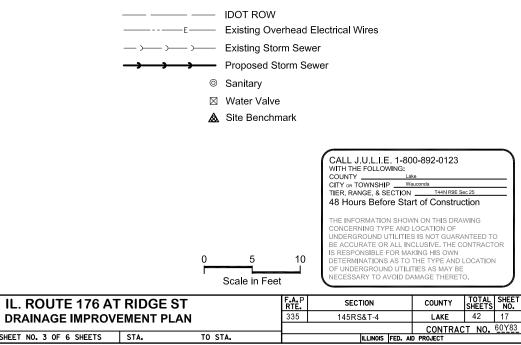
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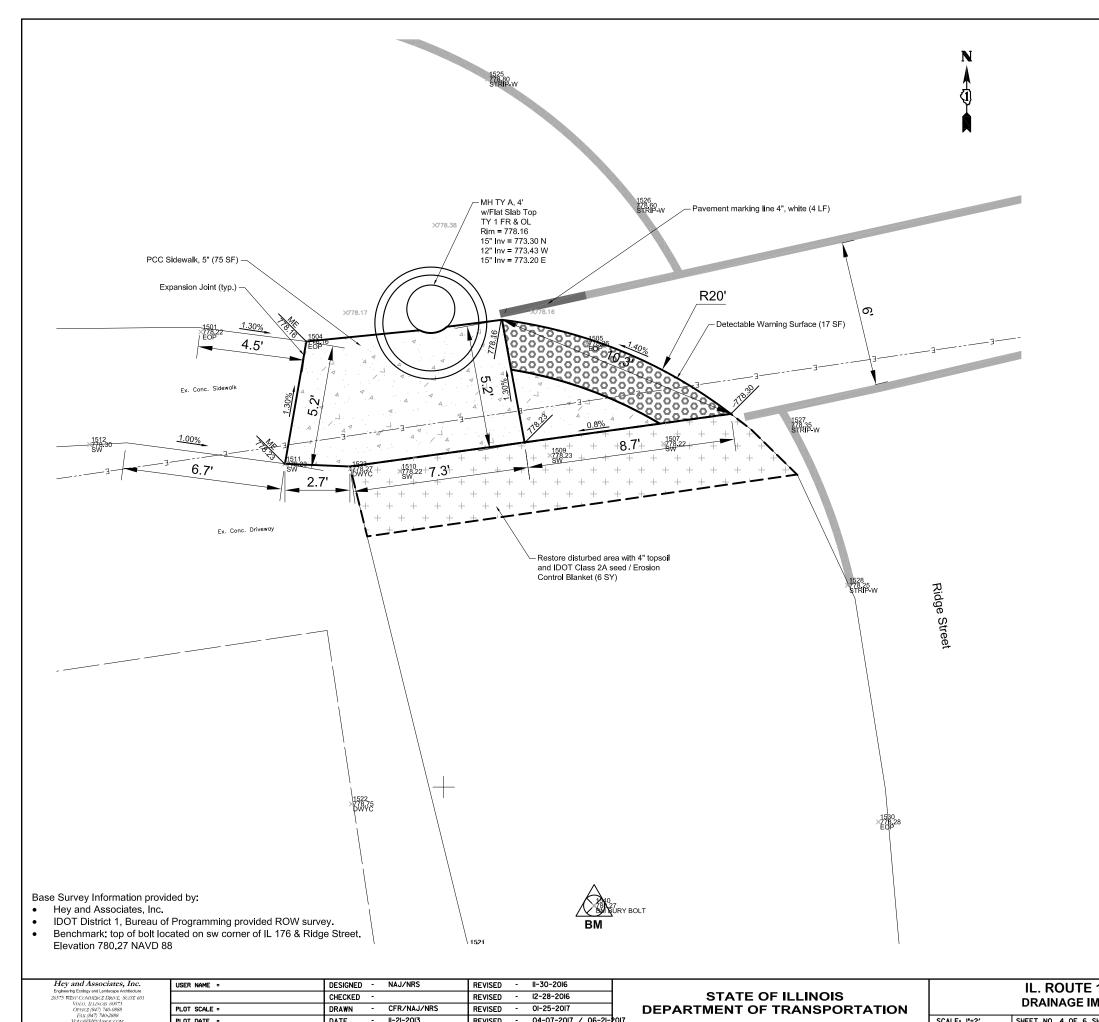
SCALE: I"=5'	SHEET NO. 3 OF 6 SHEETS	STA.

DOWNSTREAM MANHOLE

Summary of Quantities						
Item	Unit	Quantity				
Sawcut and remove existing concrete sidewalk	SF	83				
Sawcut and remove existing roadway pavement	SY	9				
Sawcut and remove 15" VCP Storm Sewer	LF	10				
Sawcut and Remove 12" RCP Storm Sewer	LF	1				
Trench Backfill	CY	15				
Roadway Pavement, Class D Patch, TY II	SY	9				
15" RCP Storm Sewer (Includes Band Seal Coupling)	LF	12				
Paint Pavement Marking - Line 4", white	LF	4				
MH TY A, 4' w/Flat Slab Top, TY 1 FR & OL	EA	1				

Note: Contractor shall verify all elevations prior to commencing construction





REVISED - 04-07-2017 / 06-21-2017

- II-2I-20I3

DATE

PLOT DATE =

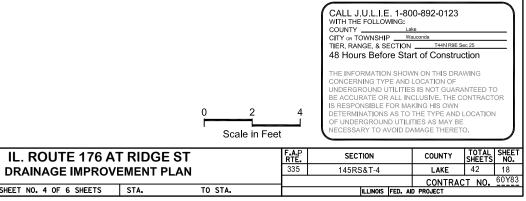
SIDEWALK REPLACEMENT

Summary of Quantities						
Item	Unit	Quantity				
PCC Sidewalk, 5"	SF	75				
Paint Pavement Marking - Line 4", white	LF	4				
Detectable Warning Surface	SF	17				
Landscape Restoration	SY	6				

Note: Contractor shall verify all elevations prior to commencing construction

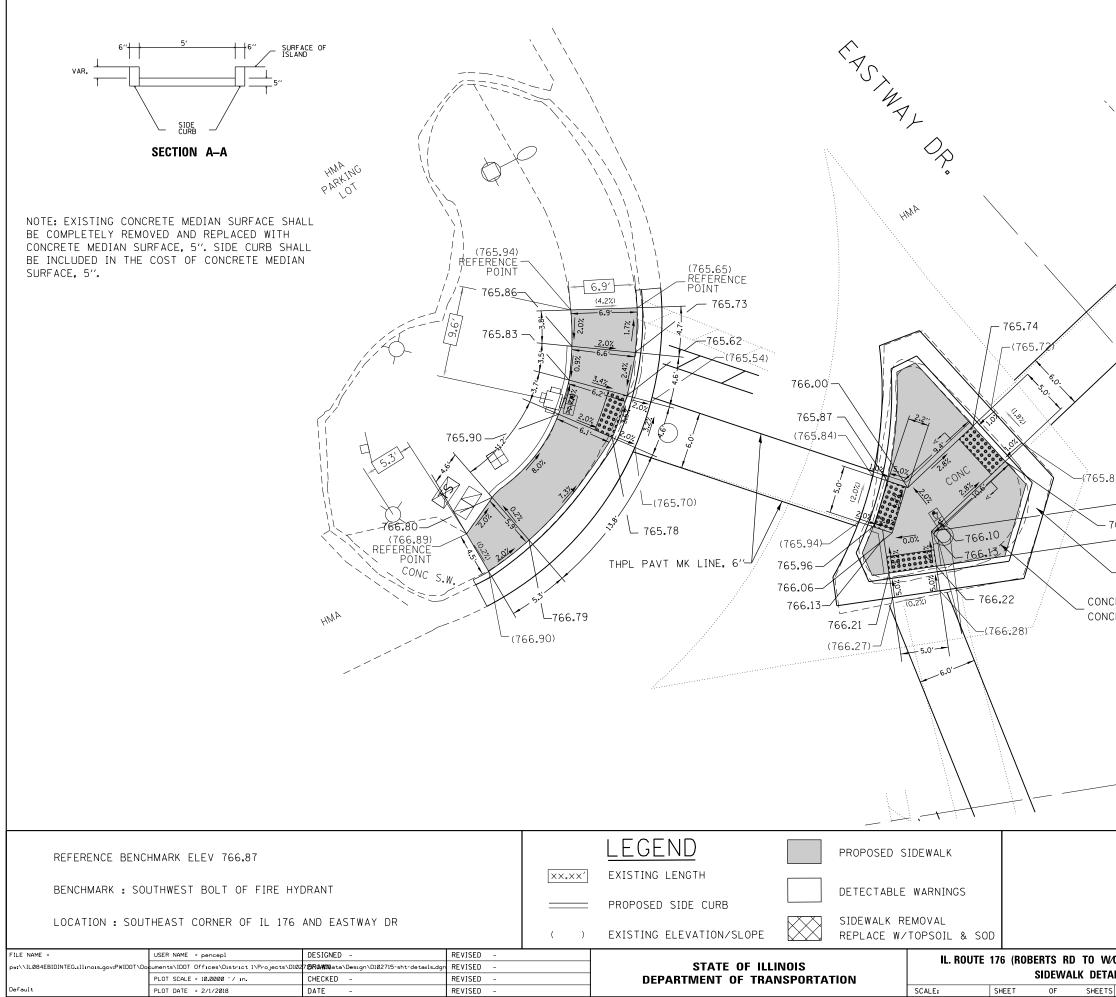
— IDOT ROW E Existing Overhead Electrical Wires

- Sanitary
- Water Valve
- 🛕 Site Benchmark

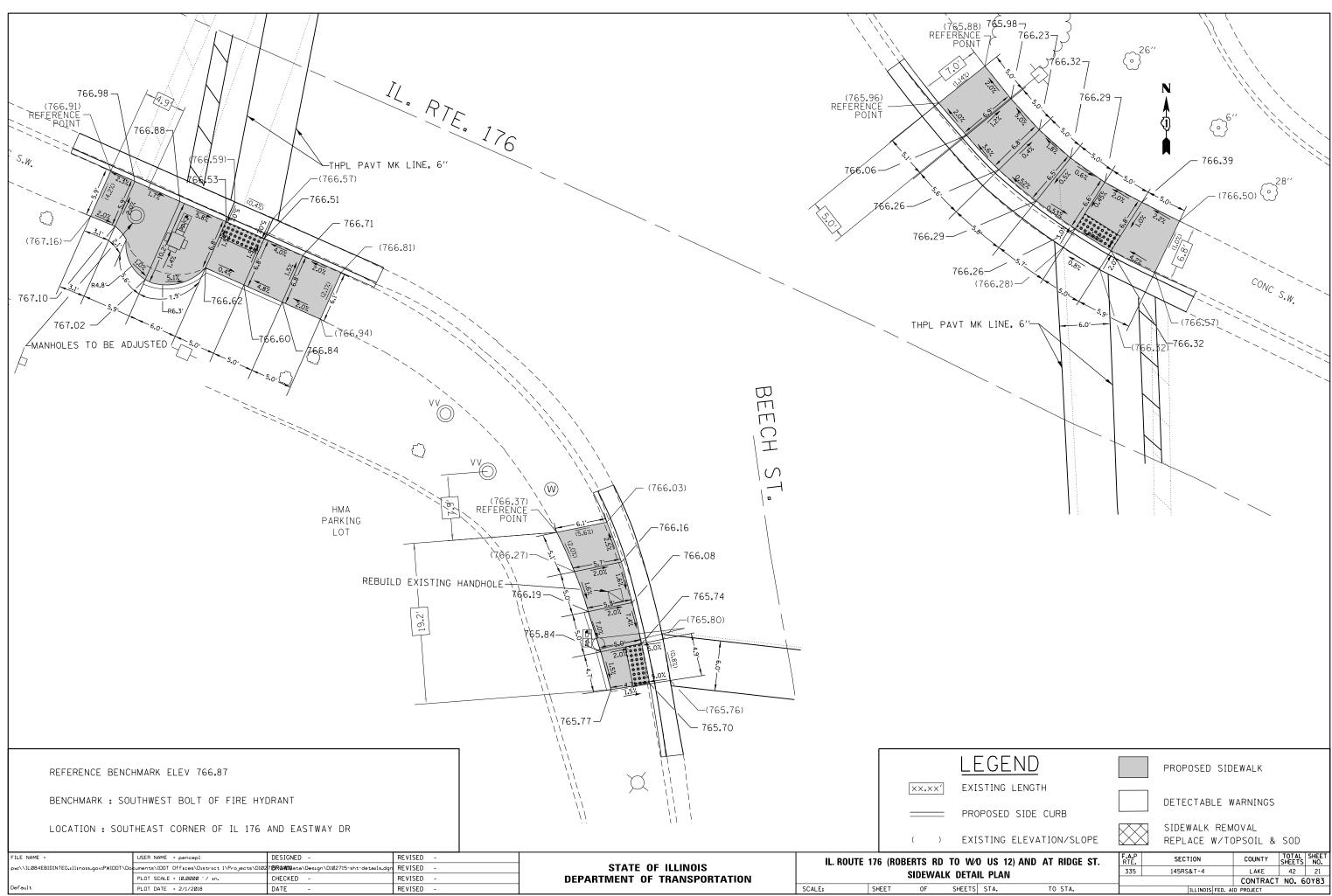


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LOCATION : 190 FT WEST OF WOODLAWN DR, SOUTH SIDE OF IL 176 () EXISTING ELEVATION/SLOPE SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD FILE NAME : pencepi DESIGNED - REVISED - REVISED - REVISED - IL ROUTE 1/Projects/DI02/70/RM/D00102715-sht/details.dgr REVISED - IL ROUTE 1/0-00000000000000000000000000000000000			RANT				DE	TECTABLE WARNIN	GS	
pwt/\ll.084EBIDINTEG.illinois.gov/PWIDDT\Do cuments\lDDT_Offices\District I\Projects\DIdZ_DRAWINata\Design\DIdZ715-sht-details.dg REVISED - STATE OF ILLINOIS ILL.NOITE 1/0 (NOBERTS RD TO PLOT_SCALE = 10.0000 // nn. CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION SIDEWALK D	LOCATION : 190	FT WEST OF WOODLA	AWN DR, SOUTH SIDE O	F IL 176	()				& SOD	
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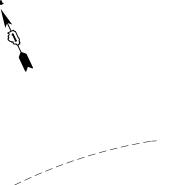


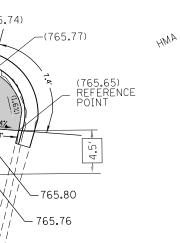
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var. 1	6"++	- SURFACE OF ISLAND 5''	(765.95)-		-5.0	CONCRETE MEDIAN CONCRETE MEDIAN	SURFACE REMOVAL SURFACE, 5″	
BE COMPLETELY CONCRETE MEDIA	SECTION A-A CONCRETE MEDIAN SURFACE REMOVED AND REPLACED W N SURFACE, 5". SIDE CURB THE COST OF CONCRETE M	TH SHALL		765.91 o ³ o ³ o ³ co ^{NC} 765.79 765.85)	(1.02) -765.84 -765.84 -765.86 -765.86	-765.85 -(765.86) (76 -765.20	765.38 65.38) 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
BENCHMARK : Location :	BENCHMARK ELEV 766.87 SOUTHWEST BOLT OF FIRE SOUTHEAST CORNER OF IL 1	76 AND EASTWAY DR			LEGEND EXISTING LENGTH PROPOSED SIDE CURB EXISTING ELEVATION/SLOPE	DETECT	ED SIDEWALK ABLE WARNINGS LK REMOVAL E W/TOPSOIL & SOD	765.84
FILE NAME = pw:\\IL084EBIDINTEG.1111nois.gov:PW Default	USER NAME = pencepl DOT\Documents\IDOT Offices\District 1\Project PLOT SCALE = 10.0000 '/ in. PLOT DATE = 2/1/2018	DESIGNED - s\D1027 (BRGMUN)oto\Design\D102715- CHECKED - DATE -	REVISED - sht-detoils.dgn REVISED - REVISED - REVISED -		STATE OF ILL DEPARTMENT OF TRA		IL. ROUTE 176	(ROBERTS RD TO W SIDEWALK DETA



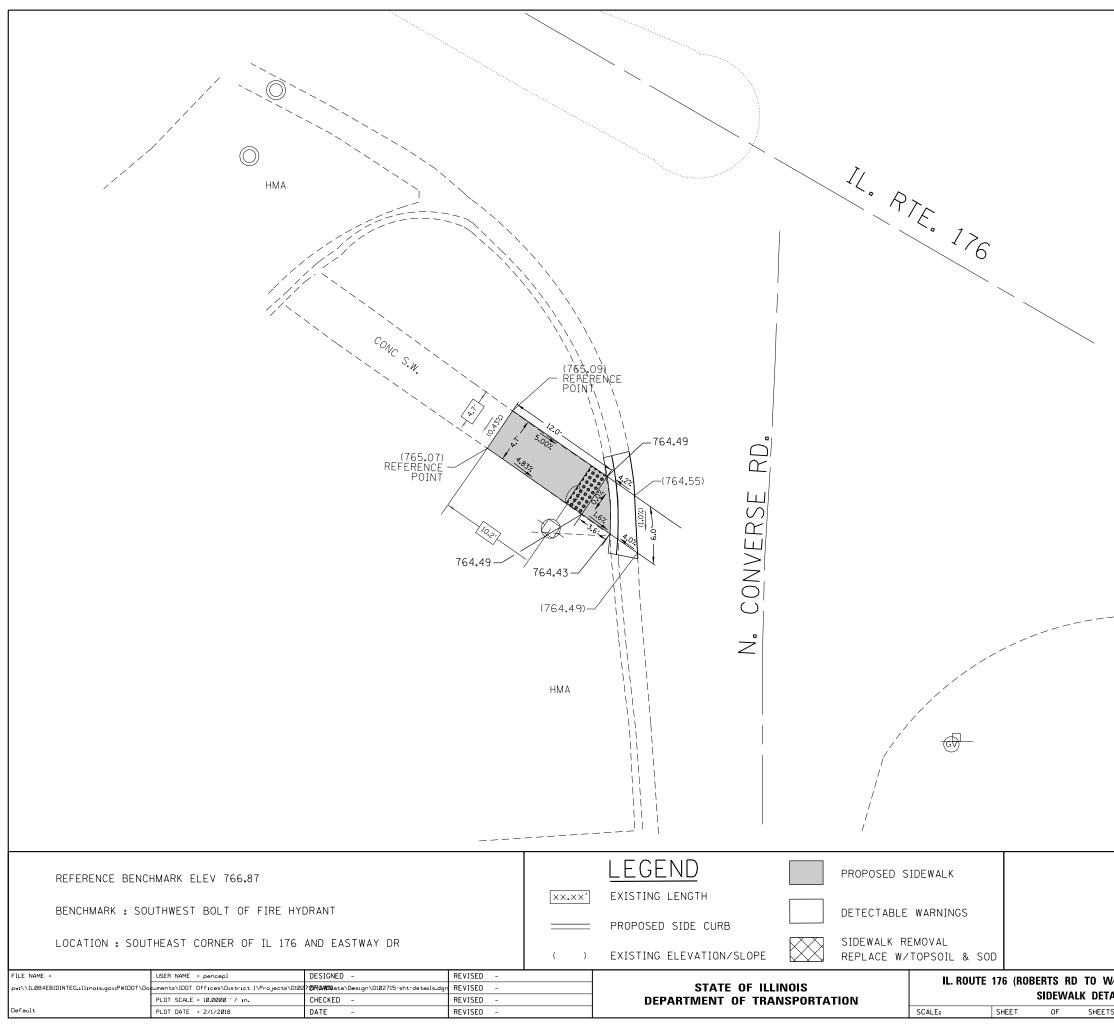


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- 765.42



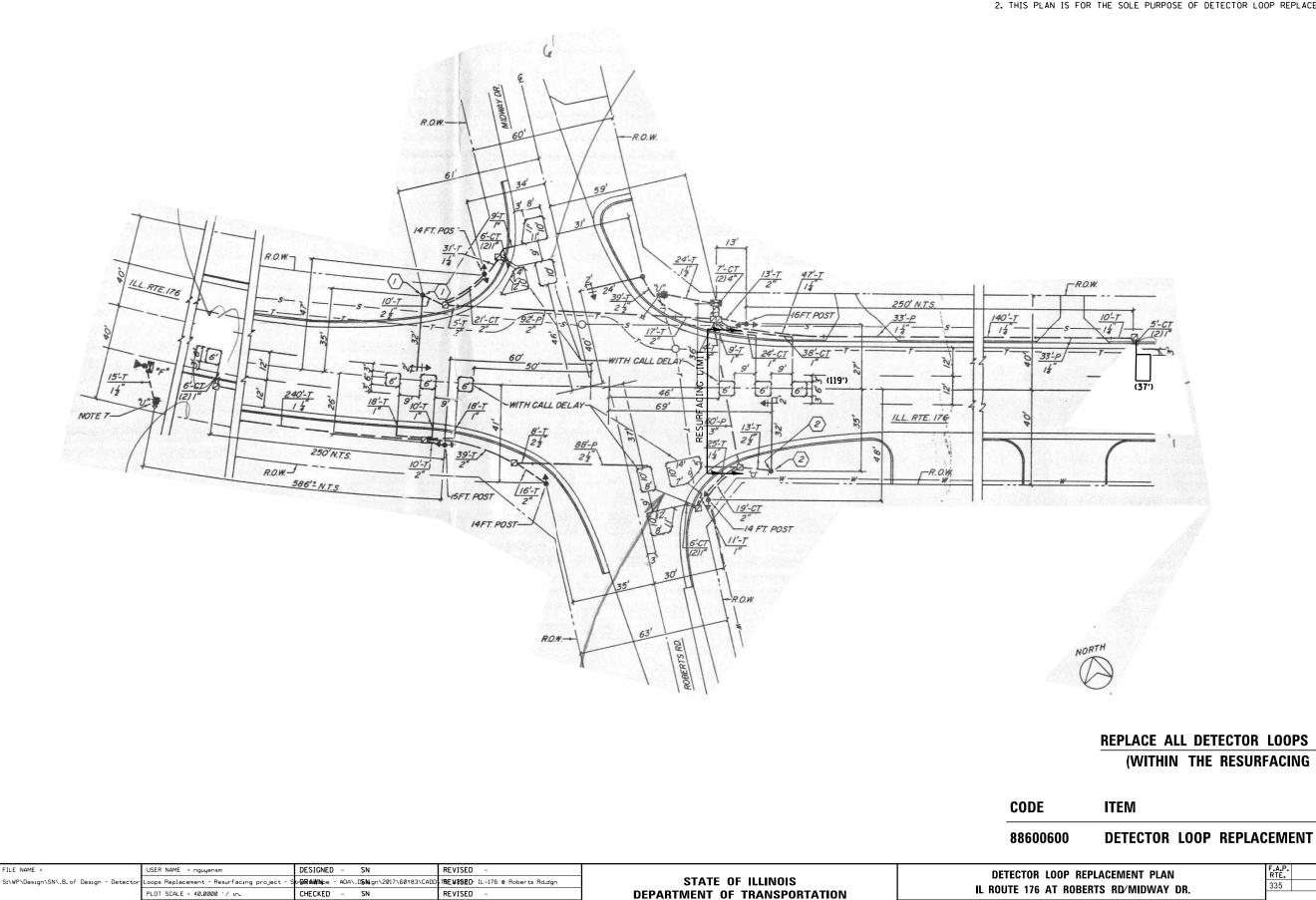
W⁄O US 12) AND AT RIDGE ST. Detail plan		AT RIDGE ST.	F.A.P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT							
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RESURFACING & PATCHING OPERATIONS.



efault

PLOT DATE = 7/28/2017

DATE

07/17/2017

REVISED

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING,

2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

ITEM

SCALE:

SHEET

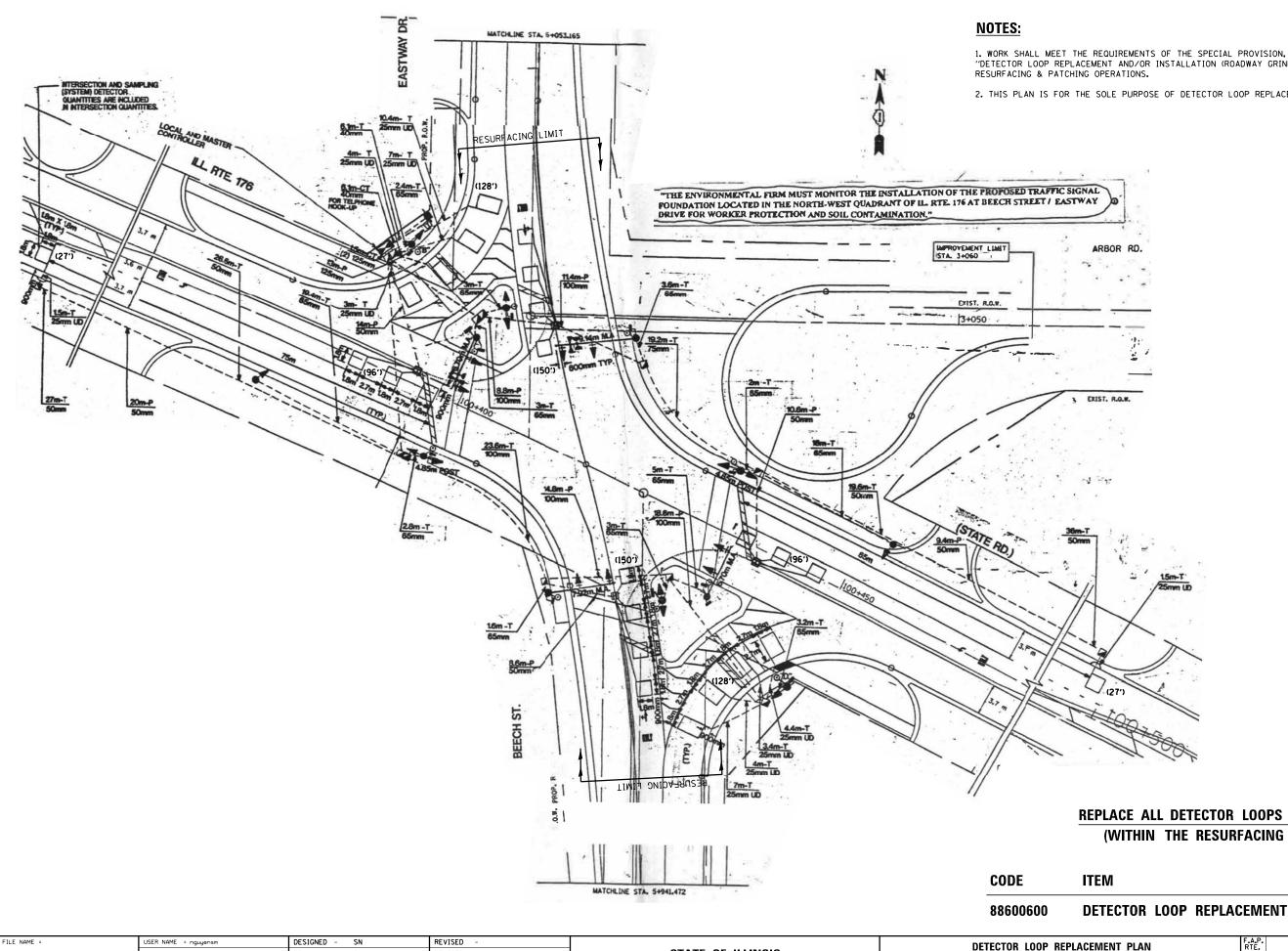
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QUANTITY UNIT

156

FOOT

COUNTYTOTAL
SHEETSSHEET
NO.LAKE4224 SECTION RTE. 145RS&T-4 335 CONTRACT NO. 60Y83 SHEETS STA. TO STA. TULINOIS FED. AID PROJECT



FILE NAME =	USER NAME = nguyensm	DESIGNED - SN	REVISED -		DETECTOR LOOP REPLACEMENT PLAN	F.A.P. SECTION	COUNTY TOTAL SHEET
S:\WP\Design\SN_B.of Design - Detector	Loops Replacement - Resurfacing project - S	tr @RA₩N pe - ADA_D SN gn\2017\60Y83\CADD	\T BEVIISED IL 476 @ <u>Beech St-Eas</u> tway Dr.dg	STATE OF ILLINOIS		335 145RS&T-4	LAKE 42 25
	PLOT SCALE = 40.0000 ' / in.	CHECKED – SN	REVISED	DEPARTMENT OF TRANSPORTATION	IL ROUTE 176 AT EASTWAY DR/BEECH ST.		CONTRACT NO. 60Y83
Default	PLOT DATE = 7/17/2017	DATE - 07/17/2017	REVISED		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. A	AID PROJECT

"DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING,

2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

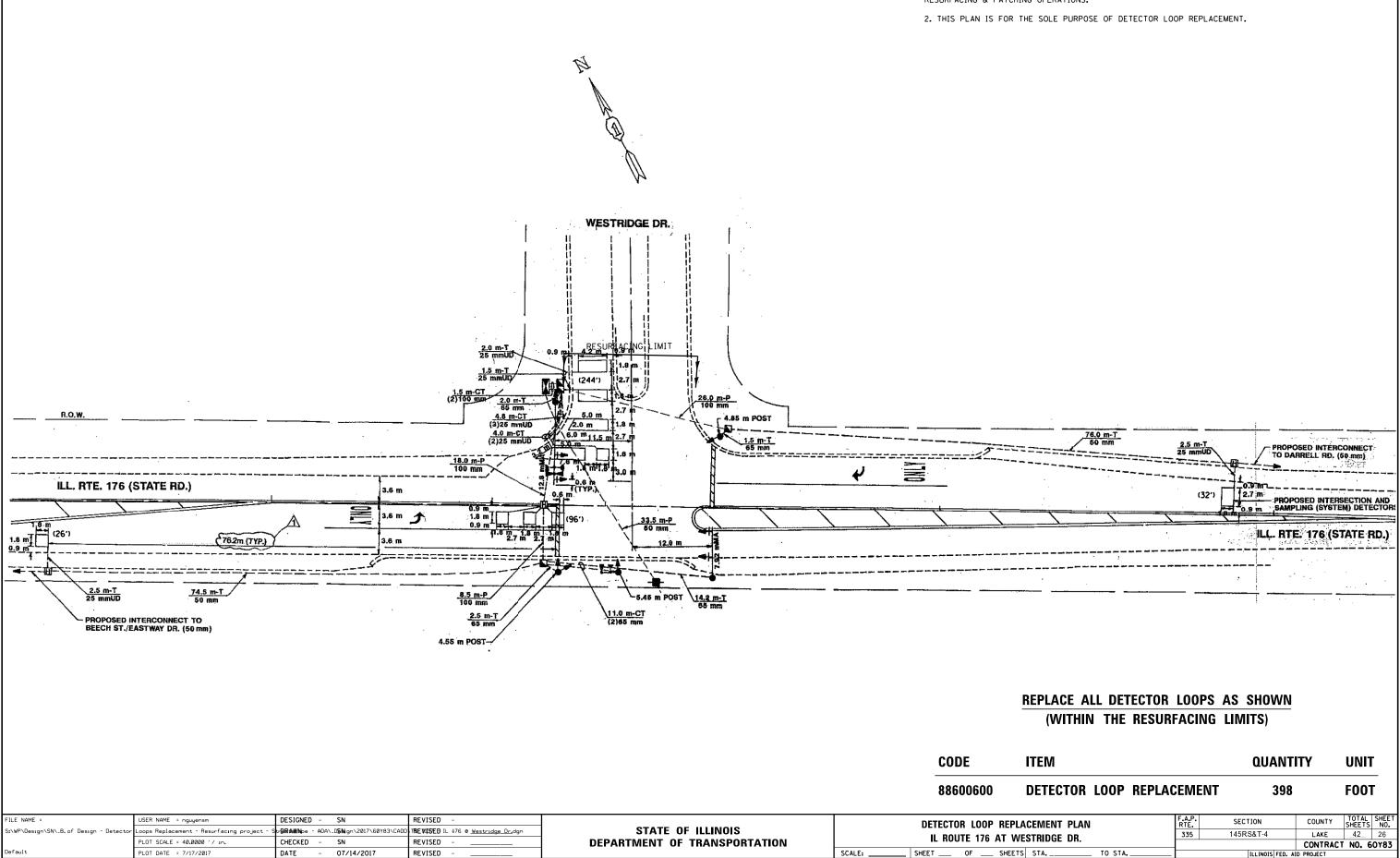
QUANTITY UNIT

DETECTOR LOOP REPLACEMENT

802

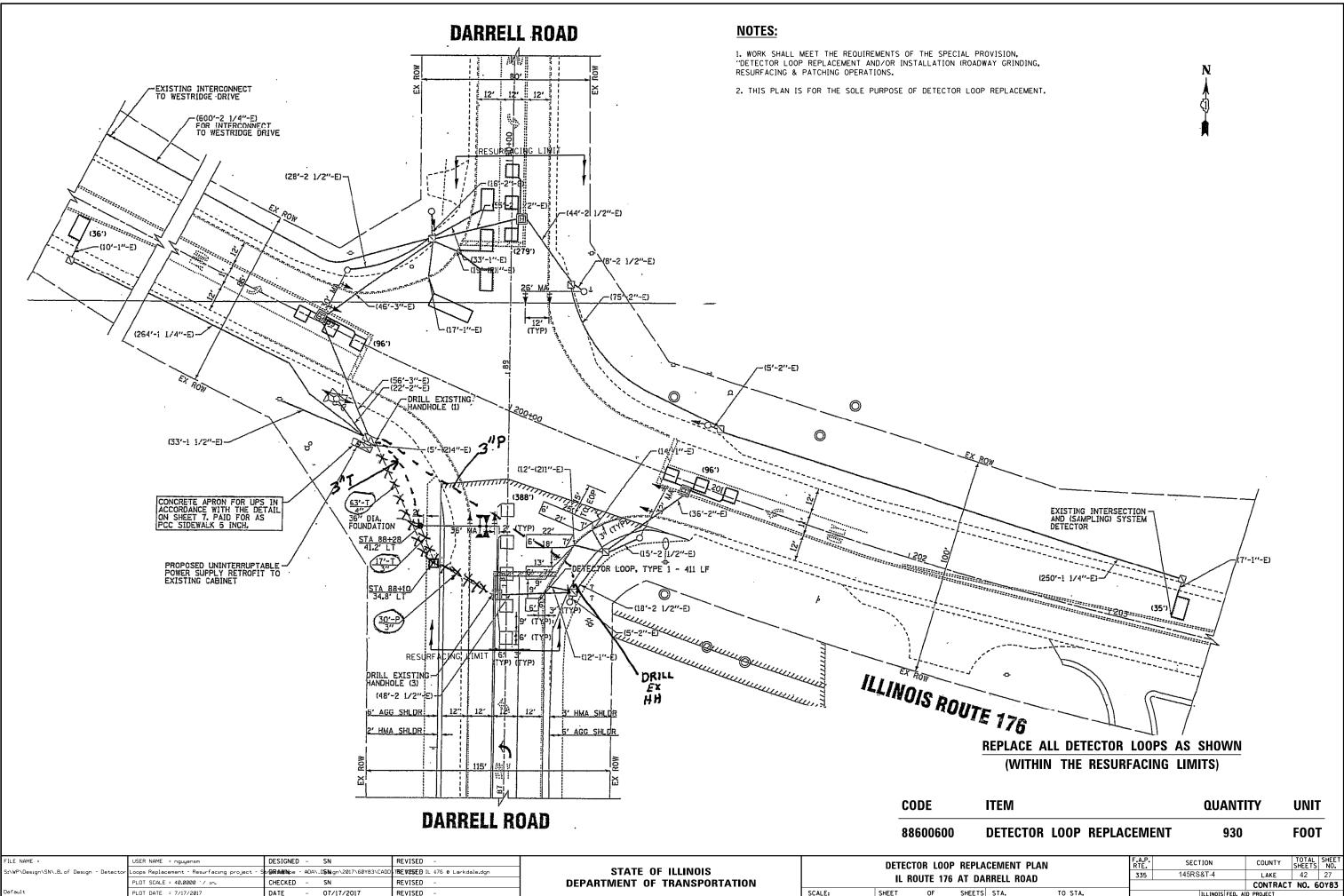
FOOT

RESURFACING & PATCHING OPERATIONS.

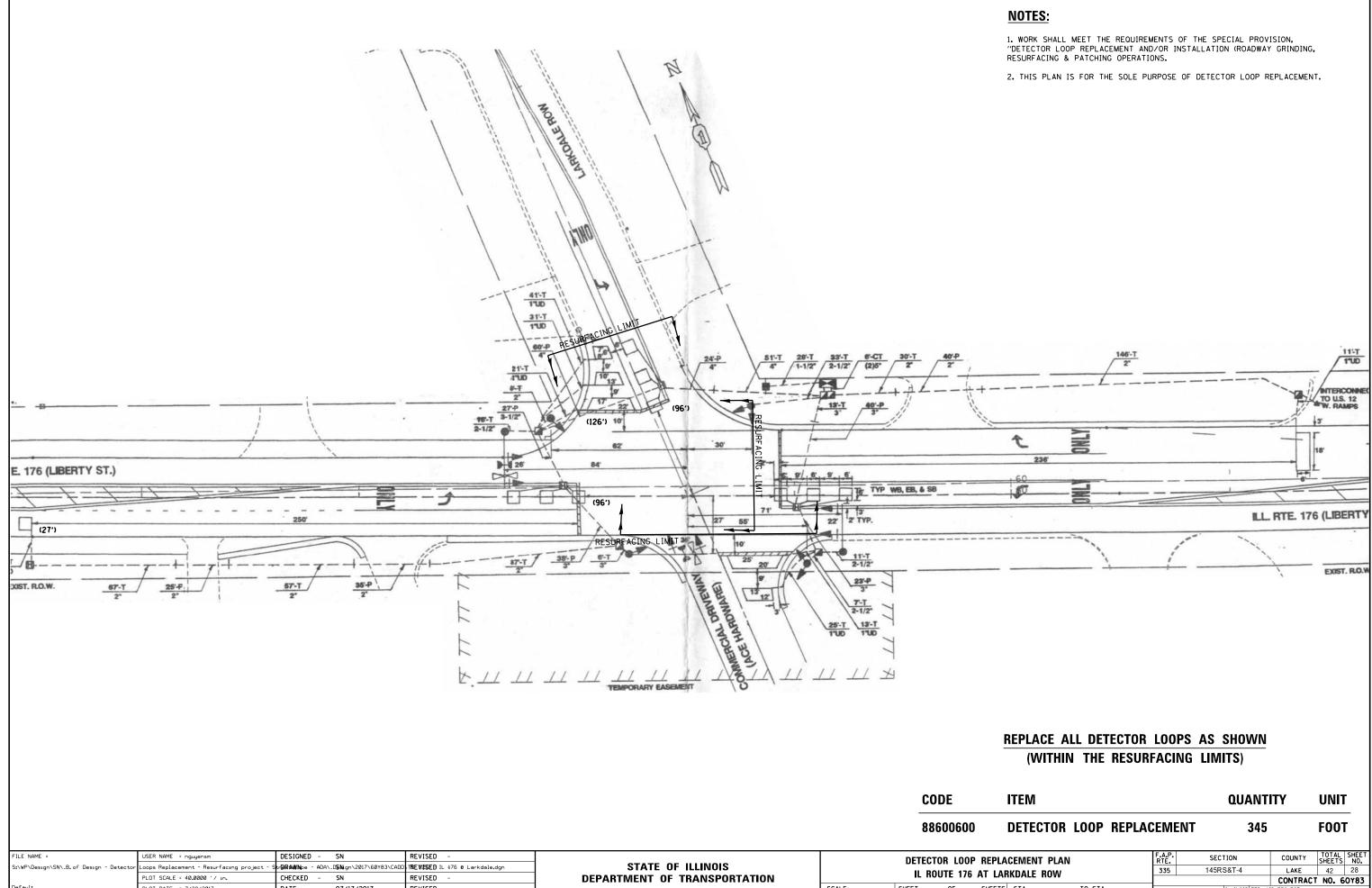


1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING,

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
335	145RS&T-4	LAKE	42	26		
		CONTRACT	NO. 6	0Y83		
ILLINOIS FED. AID PROJECT						
		335 145RS&T-4	335 145RS&T-4 LAKE	335 145RS&T-4 LAKE 42 CONTRACT NO. 6		







SCALE:

SHEET

efault

PLOT DATE = 7/28/2017

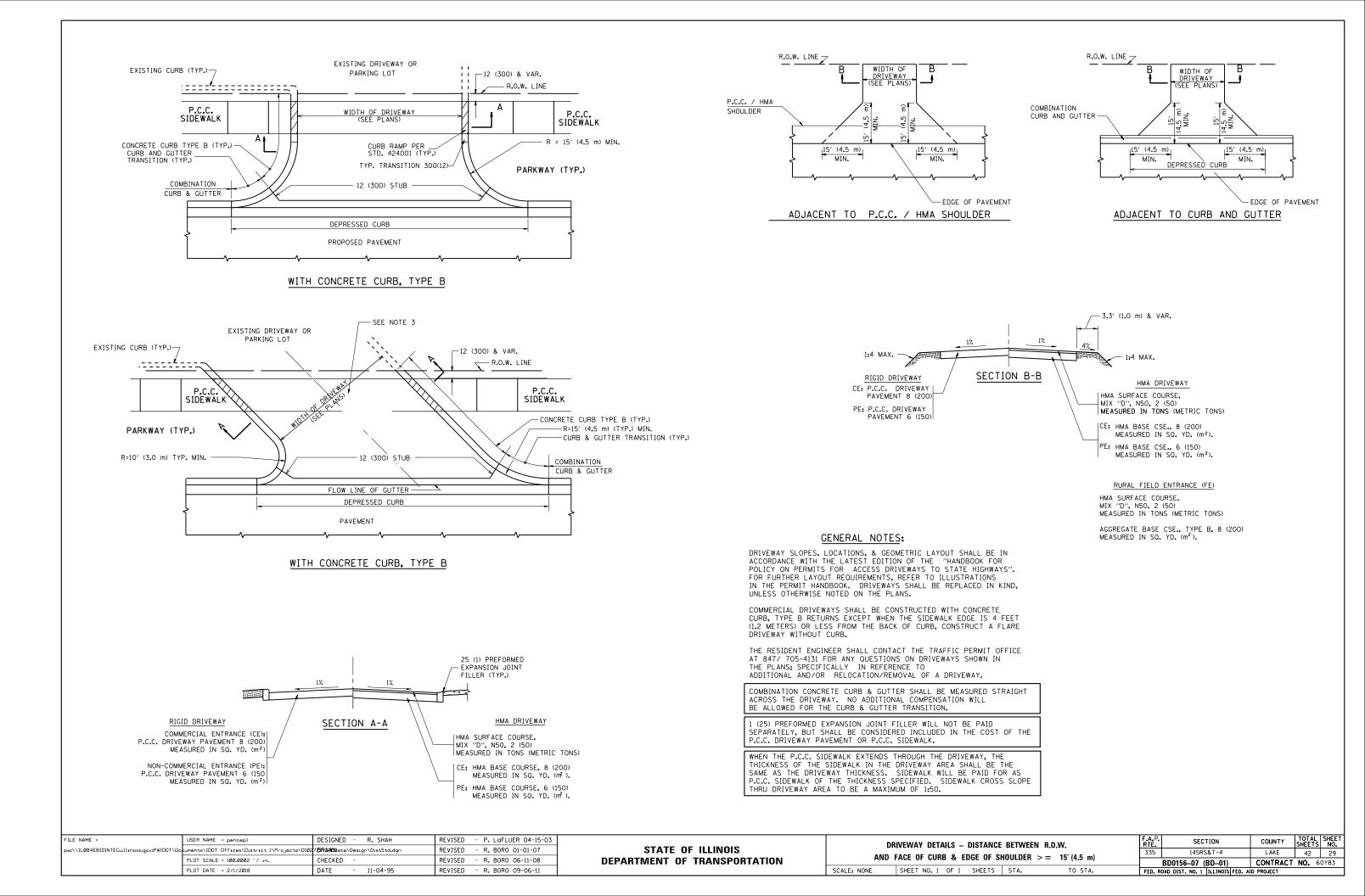
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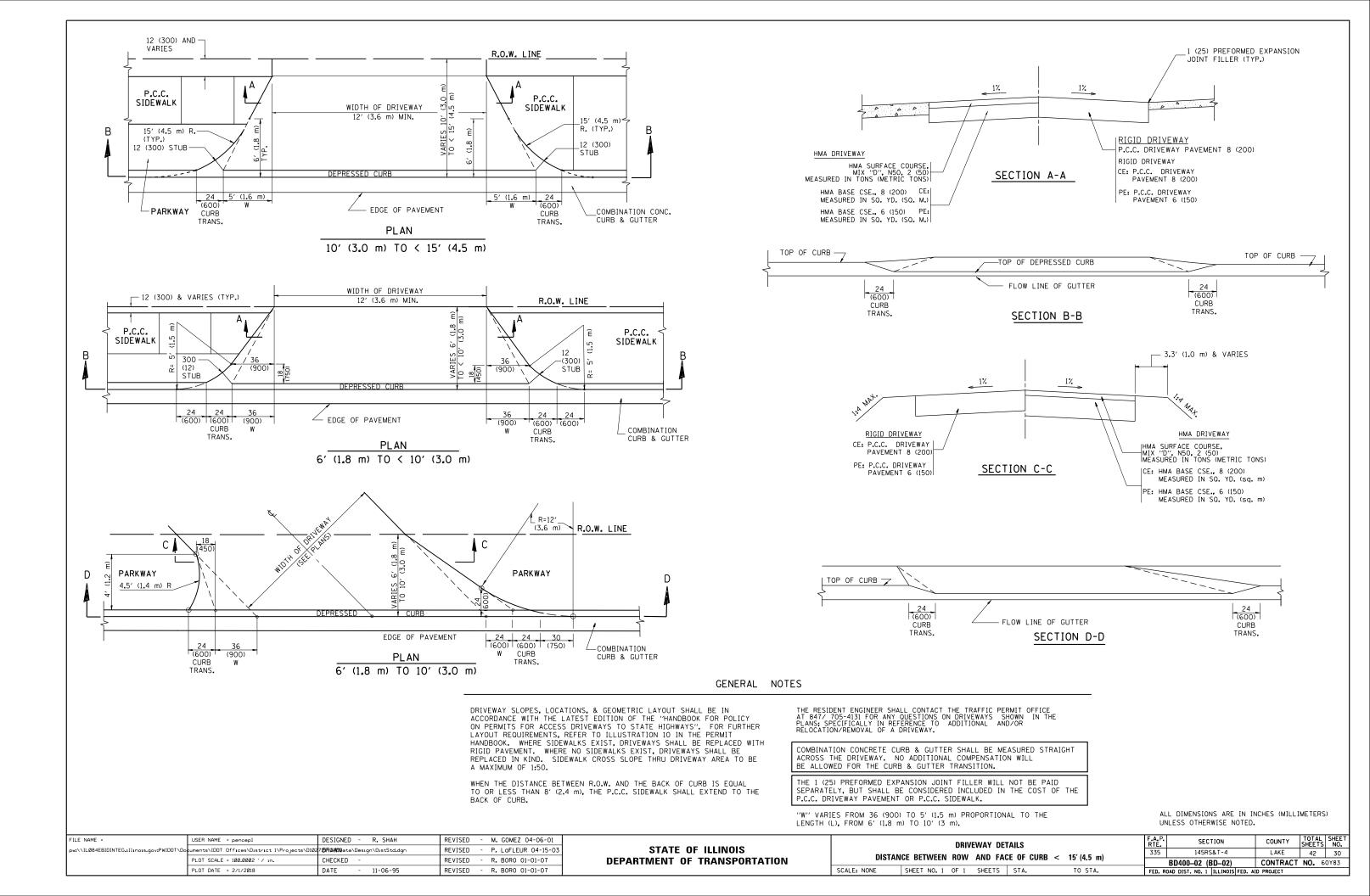
07/17/2017

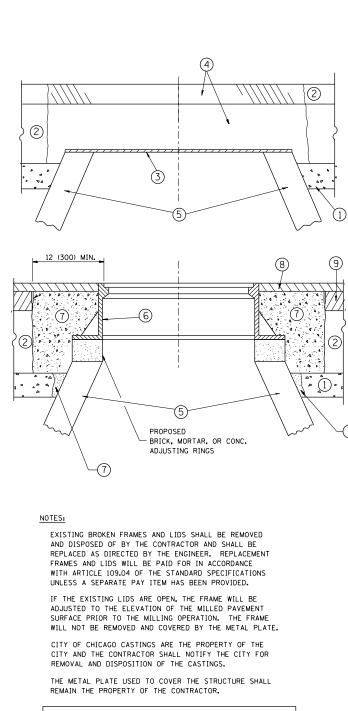
REVISED

145RS&T-4 335

OF SHEETS STA. TO STA. TULINOIS FED. AID PROJECT







WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

FILE NAME =	USER NAME = pencepl	DESIGNED - R. SHAH	REVISED	- R. WIEDEMAN 05-14-04			DETAILS FOR	F.A.P.	SECTION	COUNTY	TOTAL SHEET
pw:\\ILØ84EBIDINTEG.1111no15.gov:PWIDOT\C	cuments\IDOT_Offices\District_1\Projects\D102	7 13R0/WIN ata\Design\DistStd.dgn	REVISED	- R. BORO 01-01-07	STATE OF ILLINOIS			335	145RS&T-4	LAKE	42 31
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	- R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION	FRAMES AND LIDS ADJUSTMENT WITH MILLING			BD600-03 (BD-8)	CONTRACT	NO. 60Y83
	PLOT DATE = 2/1/2018	DATE - 10-25-94	REVISED	- R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO.	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE. B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE. D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1^{\prime}_{2} (40)
- THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1	SUB-BASE GRANULAR MATERIAL	6 FRAME AND LID (SEE NOTES)
2	EXISTING PAVEMENT	(7) CLASS PP-1* CONCRETE
3	36 (900) DIAMETER METAL PLATE	(8) PROPOSED HMA SURFACE COURSE
4	PROPOSED CRUSHED STONE AND HMA SURFACE MIX	-
(5)	EXISTING STRUCTURE	9 PROPOSED HMA BINDER COURSE

(5) EXISTING STRUCTURE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

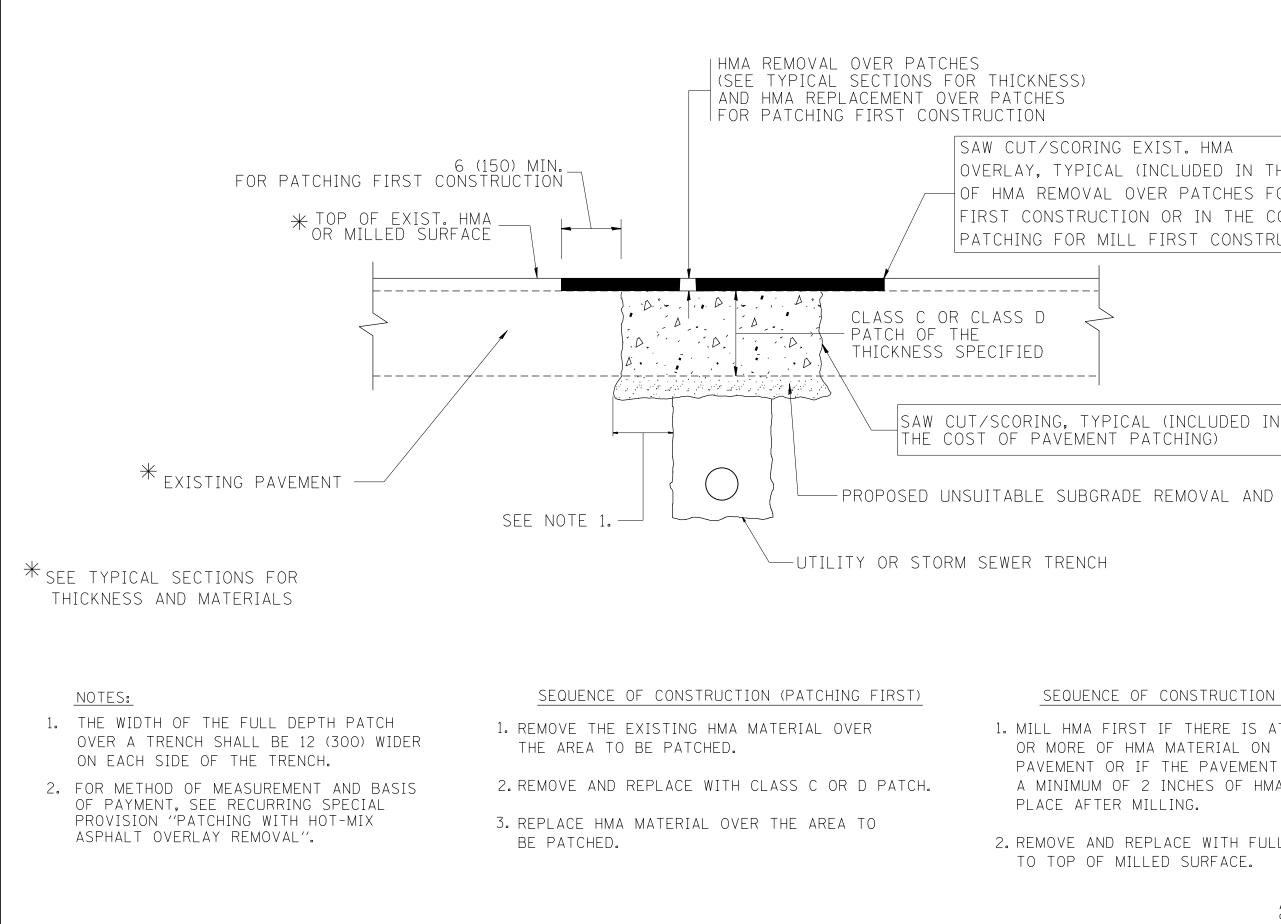
BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

ALL DIMENSIO	NS ARE IN	INCHES	(MILLIMETERS)	UNLESS	OTHERWISE	SHOWN
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_ I	FILE NAME =	USER NAME = pencepl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHI		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
	pw:\\IL084EBIDINTEG.1111no1s.gov:PWIDOT\Do	uments\IDOT Offices\District 1\Projects\D102	7 13R04WDQ ata\Design\DistStd.dgn	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS					335	145RS&T-4	LAKE	42 32
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMEN		VEIVIENT		BD4	00–04 (BD–22)	CONTRACT	T NO. 60Y83
		PLOT DATE = 2/1/2018	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		IST. NO. 1 ILLINOIS FED.		

OVERLAY, TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

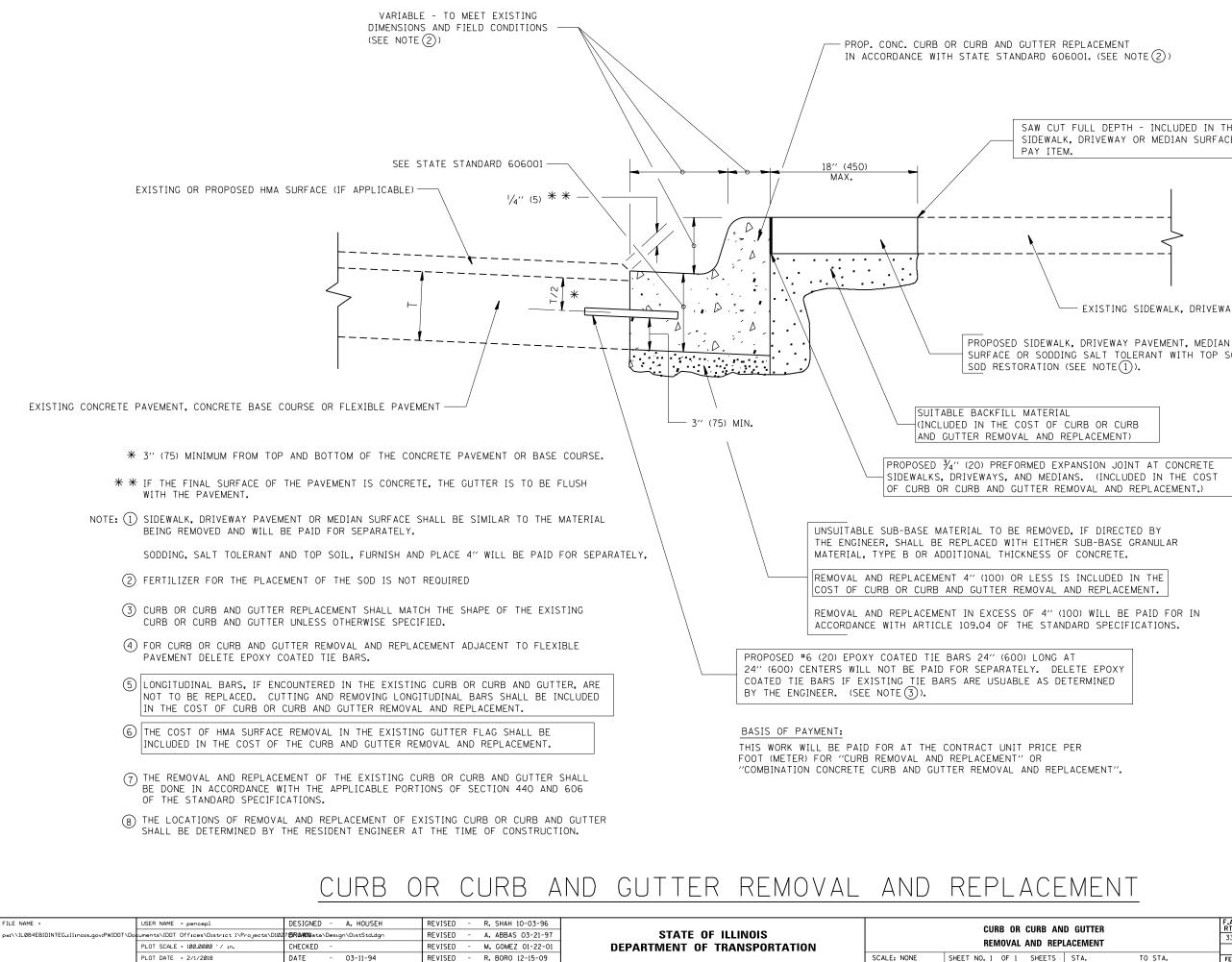
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

> ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



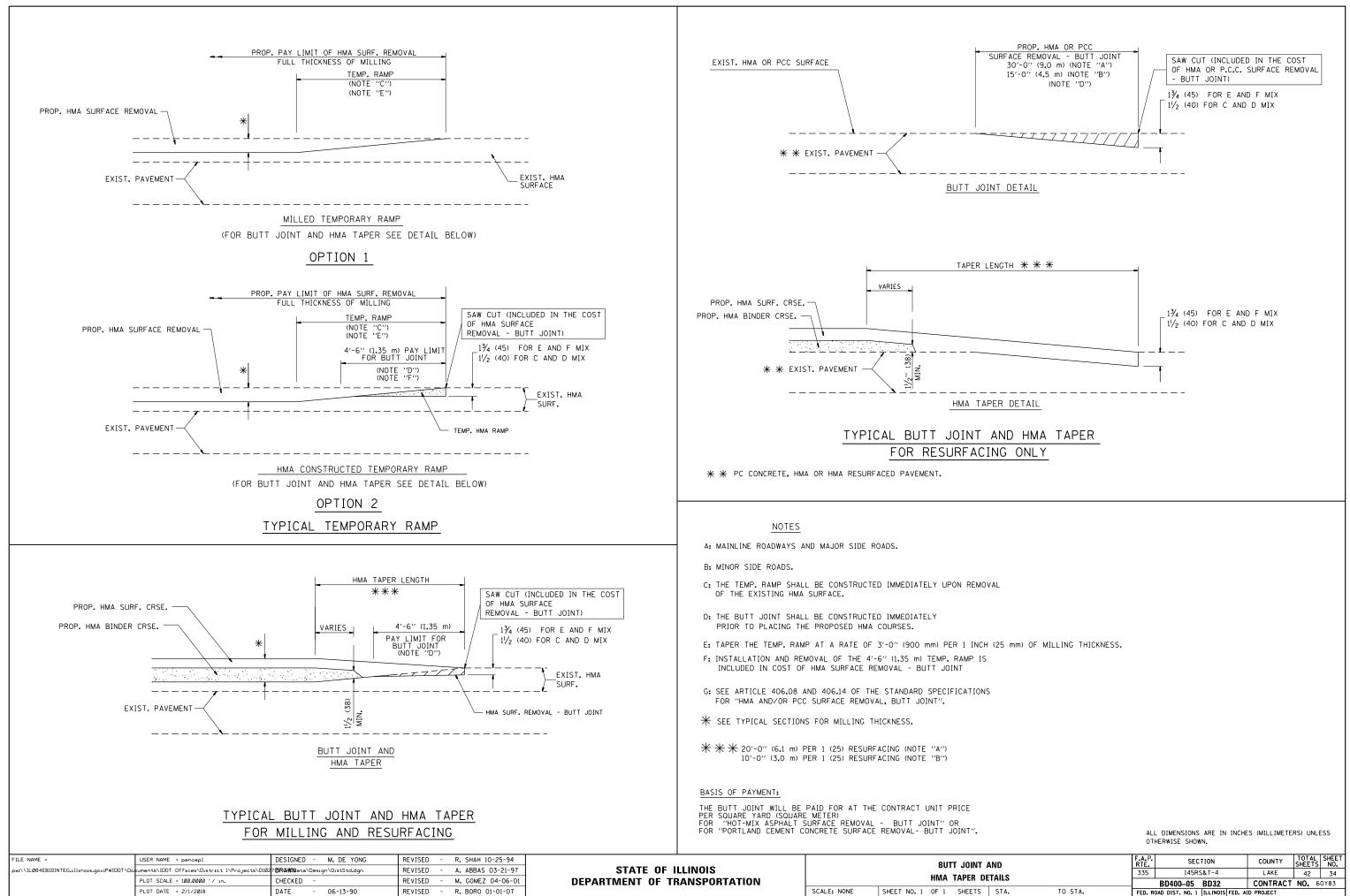
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100)

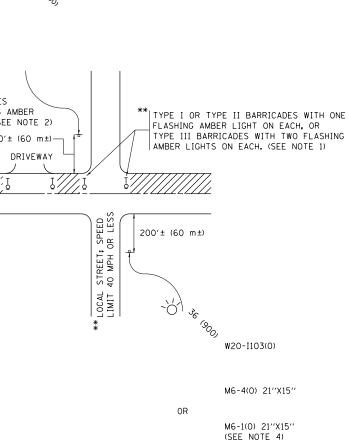
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

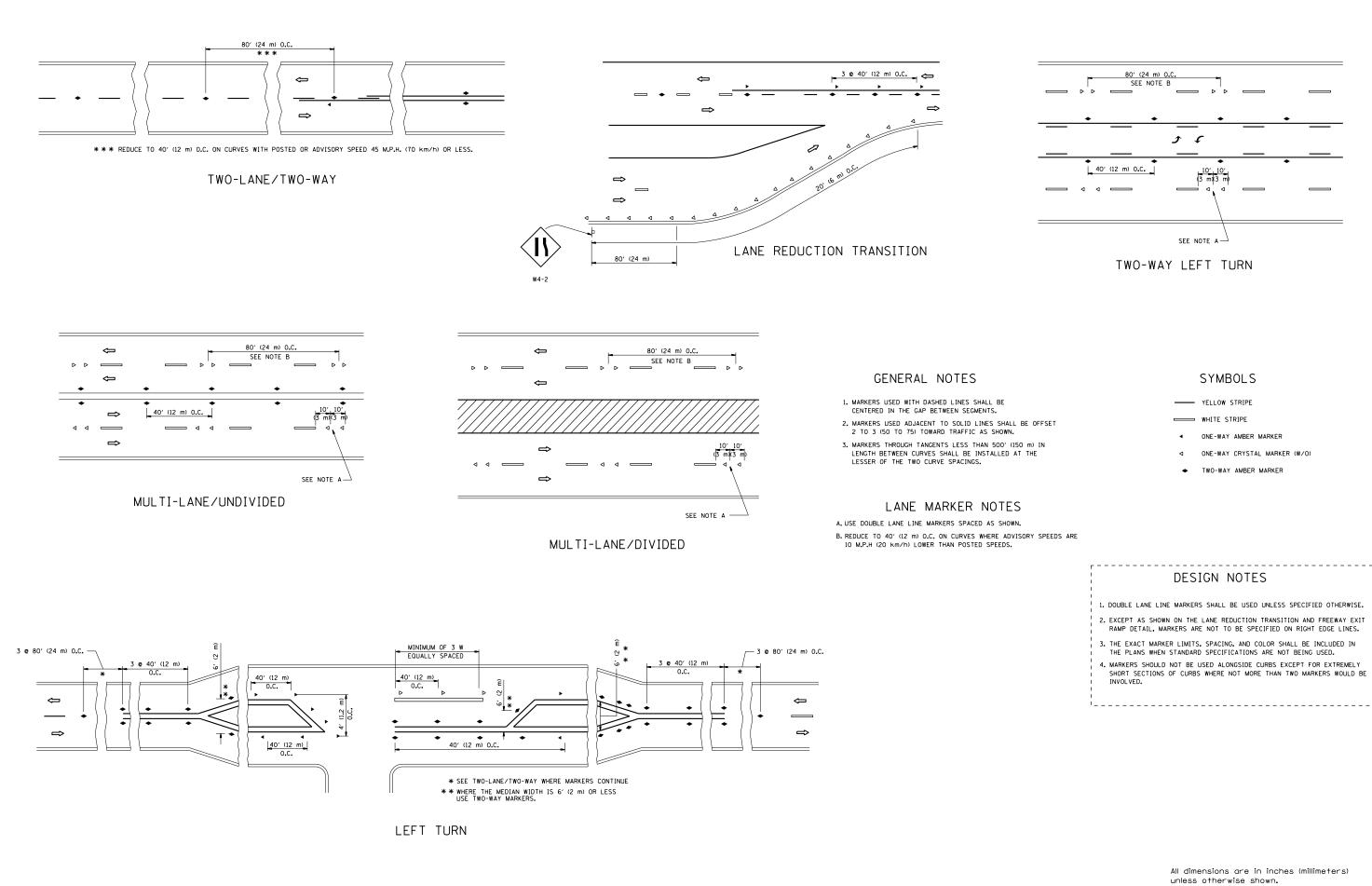
AND GUTTER EPLACEMENT		A.P. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
		145RS	S&T-4		LAKE	42	33	
		BD600-06 (I	BD-24)		CONTRACT	NO. 6	0Y83	
STA. TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS FED	. AID	PROJECT			



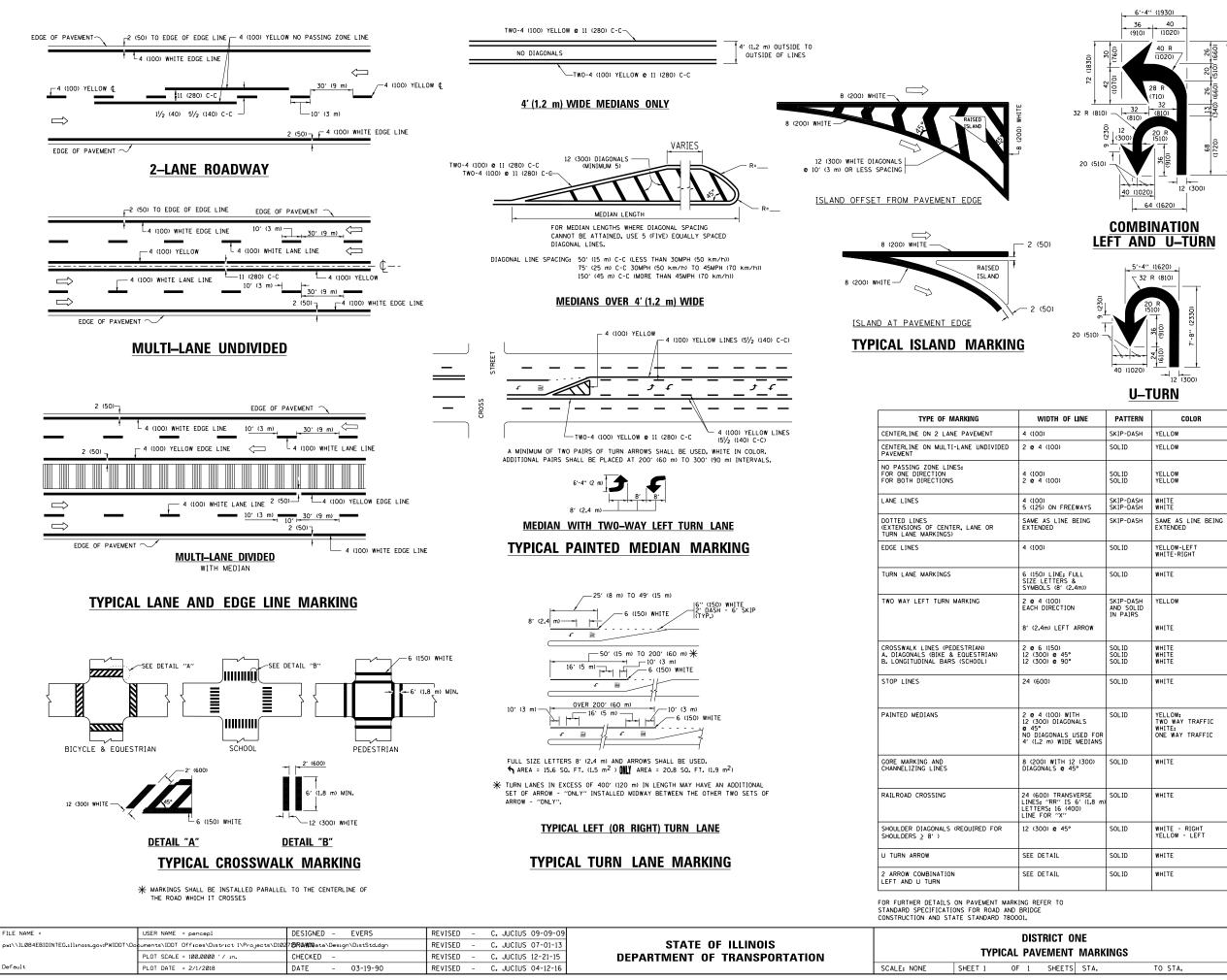
F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
335	145RS	5&T-4	LAKE	42	34
	BD400-05	BD32	CONTRACT	NO. 6	0Y83
FED. R	OAD DIST. NO. 1	ILLINOIS FED. A	D PROJECT		
	335	335 145RS BD400–05	335 145RS&T-4 BD400–05 BD32	335 145RS&T-4 LAKE	335 145RS&T-4 LAKE 42 BD400-05 BD32 CONTRACT NO. 6

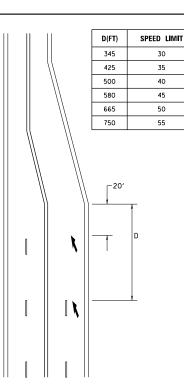
				TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 1) 100000000000000000000000000000000000
		SHOWN ON THE DRAWING A a) ONE "ROAD CONSTRUM MOUNTED ON IT APP b) THE CLOSED PORTION BLOCKING WITH TYPE THE CROSS SECTION 2. SIDE ROAD WITH A SPEED AS SHOWN ON THE DRAWIN a) ONE "ROAD CONSTRUM FLASHER MOUNTED O OF THE MAIN ROUTE. b) THE CLOSED PORTION BLOCKING WITH TYPE OF THE CLOSED PORTION BLOCKING WITH TYPE OF THE CLOSED PORTION SPACING DURING DAY OPEF IN HEIGHT. 4. WHEN THE SIDE ROAD LIES SIGNING AND THE WORK ZO	ND AS DIRECTED BY THE ENGINEER: ICTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER ROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. N OF THE MAIN ROUTE SHALL BE PROTECTED BY E I, TYPE II OR TYPE III BARRICADES, 1/3 OF OF THE CLOSED PORTION. LIMIT GREATER THAN 40 MPH (60 km/h) G AND AS DIRECTED BY THE ENGINEER: ICTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A N IT APPROXIMATELY 500' (150 m) IN ADVANCE N OF THE MAIN ROUTE SHALL BE PROTECTED BY E III BARRICADES, 1/2 OF THE CROSS SECTION	WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (MG-1 OR MG-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS JNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
				All dimensions are in inches (millimeters) unless otherwise shown.
FILE NAME = USER NAME = pencepl pw:\\L084EBIDINTEG.illinois.gov:PWIDDT\Documents\IDDT Offices\District 1\Projects\D102 PLOT SCALE = 100.0000 '/ in. Default PLOT DATE = 2/1/2018	DESIGNED L.H.A. REVISED - A. HOUSEH 10-15-96 78RAMDNoto\Design\DistStd.dgn REVISED - T. RAMMACHER 01-06-00 CHECKED - REVISED - A. SCHUETZE 07-01-13 DATE - 06-89 REVISED - A. SCHUETZE 09-15-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 335 145RS&T-4 LAKE 42 35 TC-10 CONTRACT NO. 60Y83 STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT





FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED - T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		F.A.P.	SECTION	COUNTY TOTAL SHEET
pw:\\ILØ84EBIDINTEG.1llinois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D102	713R04000ata\Design\DistStd.dgn	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS			335	145RS&T-4	LAKE 42 36
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION				TC-11	CONTRACT NO. 60Y83
	PLOT DATE = 2/1/2018	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED.	AID PROJECT





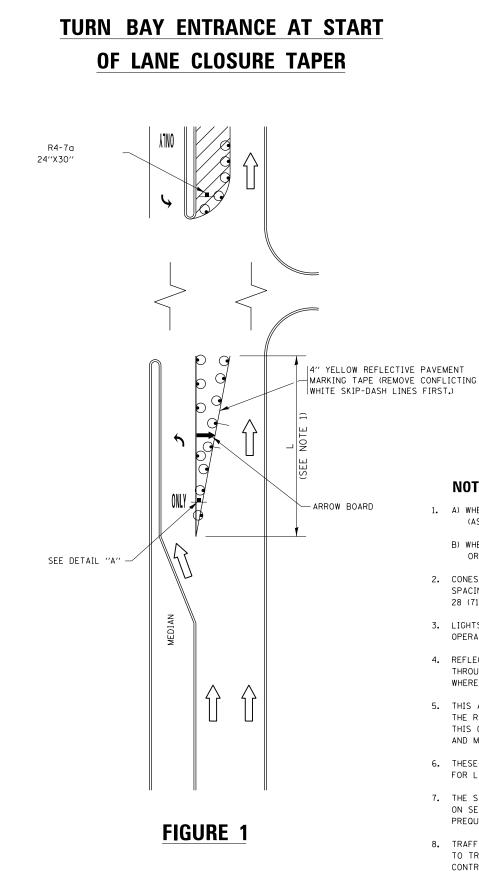
LANE REDUCTION TRANSITION

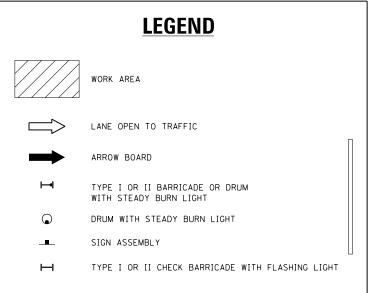
lane reduction arrows required at speeds of 45 MPH or greater or when specified in plans.

F LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
FULL & 2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
ON - ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
•	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPINO POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
USED FOR E MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
12 (300) 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
ISVERSE S 6' (1.8 m) 400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO, FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
•	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF
		1	l

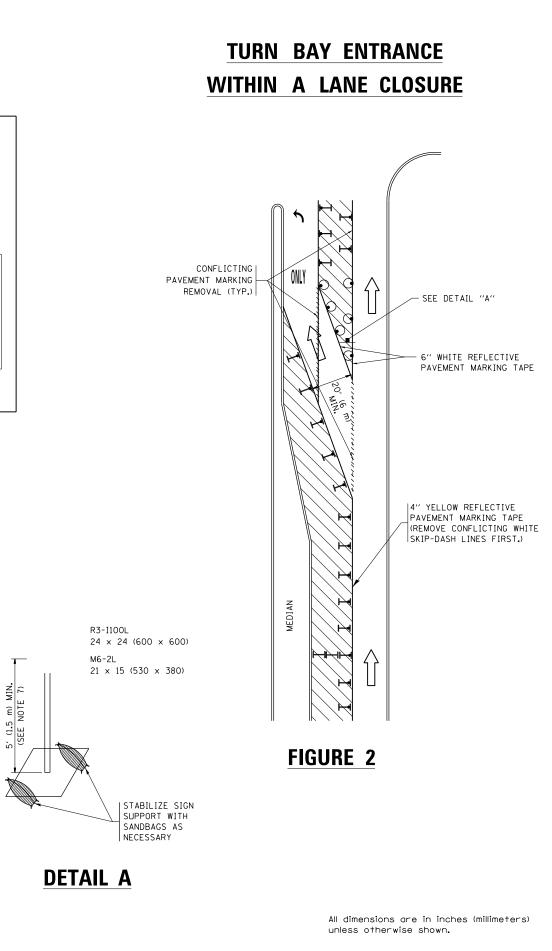
All dimensions are in inches (millimeters) unless otherwise shown.

ONE IT_MARKINGS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		145RS&T-4		LAKE	42	37
		TC-13		CONTRACT	NO. 6	0Y83
'S STA. TO STA.	FED. R	DAD DIST. NO. 1	ILLINOIS FED. A	D PROJECT		

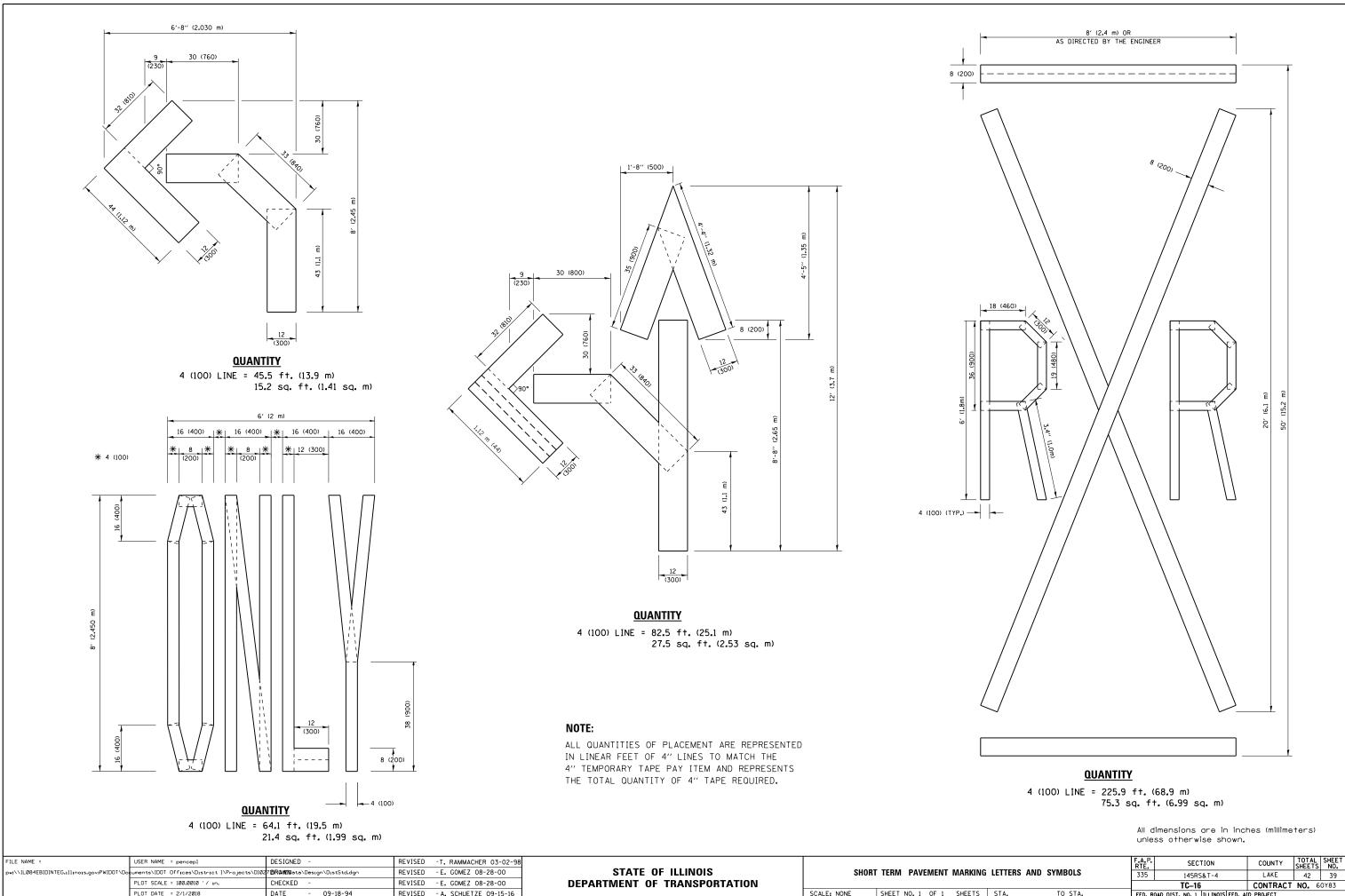




- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 × 15 (530 × 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

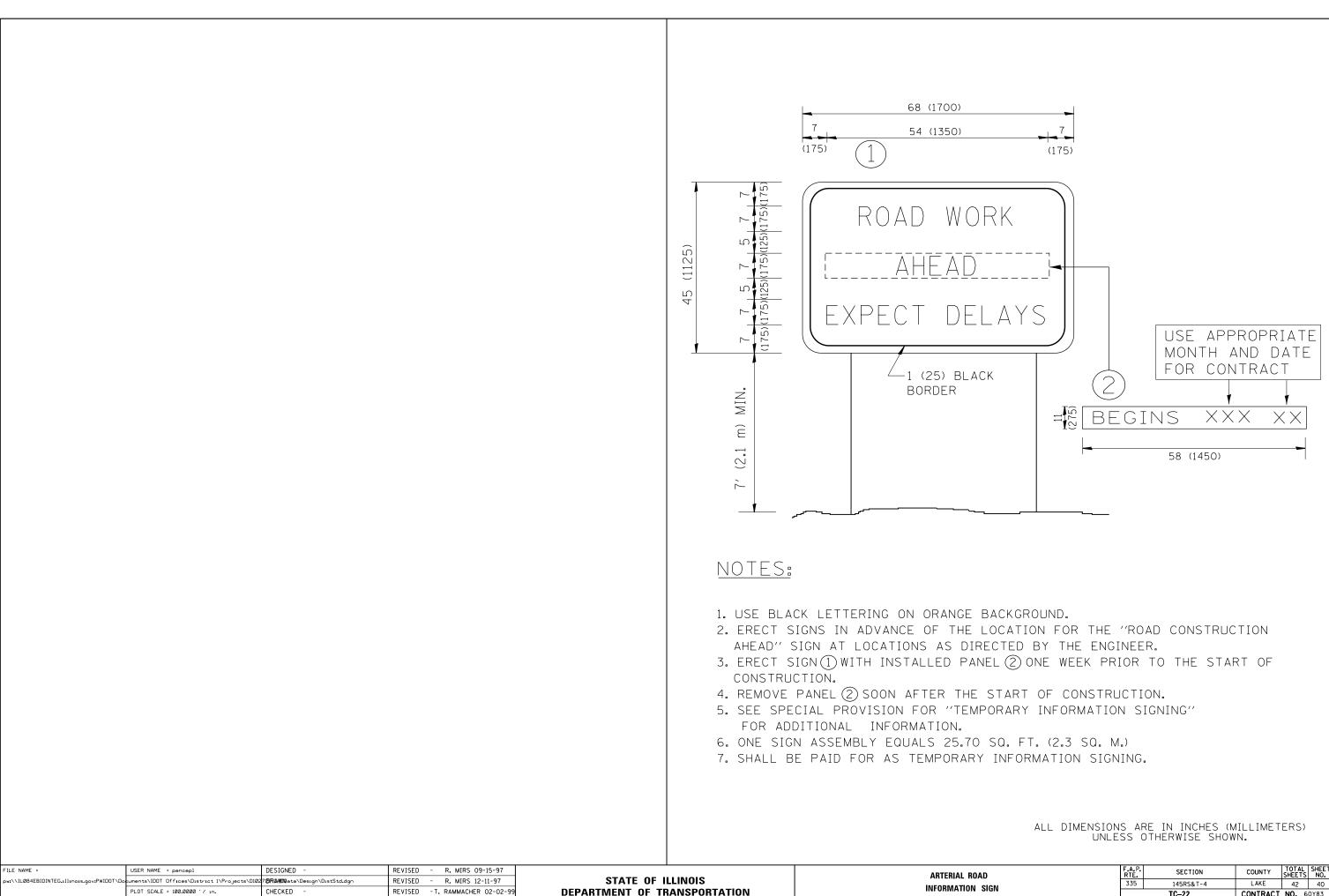


FILE NAME =	USER NAME = pencepl	REVISED - T. RAMMACHER 09-08-94 REVISED - R. BORO 09-14-09		TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (T0 REMAIN OPEN TO TRAFFIC) SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		SECTION	COUNTY TOTAL SHEET SHEFTS NO.
pw://IL084EBIDINTEG.1111no1s.gov:PWIDOT/De	cuments\IDOT_Offices\District_I\Projects\D102	71856146669.a\Design\QusHOUS6H 11-07-95 REVISED - A. SCHUETZE 07-01-13	STATE OF ILLINOIS			145RS&T-4	LAKE 42 38
	PLOT SCALE = 100.0000 ' / in.	REVISED - A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION			TC-14	CONTRACT NO. 60Y83
Default	PLOT DATE = 2/1/2018	REVISED - T. RAMMACHER 01-06-00 REVISED -				DIST. NO. 1 ILLINOIS FEI	D. AID PROJECT



SCALE: NONE SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
335	145RS&T-4		LAKE	42	39	
	TC16			CONTRACT	NO. 6	0Y83
FED. R	OAD DIST. NO. 1	ILL INOIS	FED. AI	D PROJECT		
	335	335 145RS TC-16	335 145RS&T-4 TC16	335 145RS&T-4 TC-16	335 145RS&T-4 LAKE	335 145RS&T-4 LAKE 42 TC-16 CONTRACT NO. 6



REVISED - C. JUCIUS 01-31-07

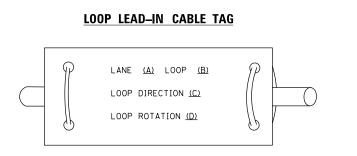
PLOT DATE = 2/1/2018

DATE

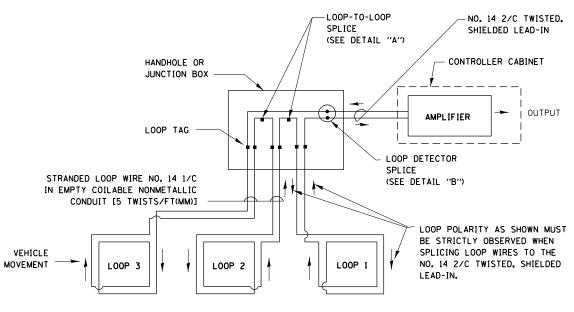
ROAD In Sign			F.A.P. SECTION RTE.		COUNTY	TOTAL SHEETS	SHEET NO.
			335	145RS&T-4	LAKE	42	40
				TC-22	CONTRACT	NO. 6	0Y83
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

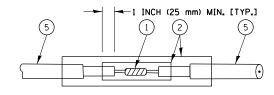


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

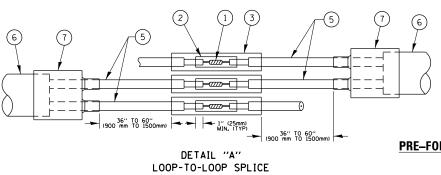


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



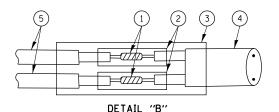
DETAIL "A" LOOP-TO-LOOP SPLICE



LOOP DETECTOR SPLICE

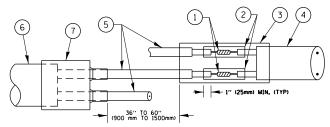
- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUF OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE ST
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

FILE NAME =	USER NAME = pencepl	DESIGNED -	REVISED -		DISTRICT ONE	F.A.P. SECTION	COUNTY TOTAL SHEET
pw://ILØ84EBIDINTEG.111no1s.gov:PWIDOT/Do	cuments\IDOT Offices\District 1\Projects\D102	7 13R04WIN ata\Design\DistStd.dgn	REVISED -	STATE OF ILLINOIS		335 145RS&T-4	LAKE 42 41
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	TS-05	CONTRACT NO. 60Y83
Default	PLOT DATE = 2/1/2018	DATE -	REVISED -		SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT



LOOP-TO-CONTROLLER SPLICE

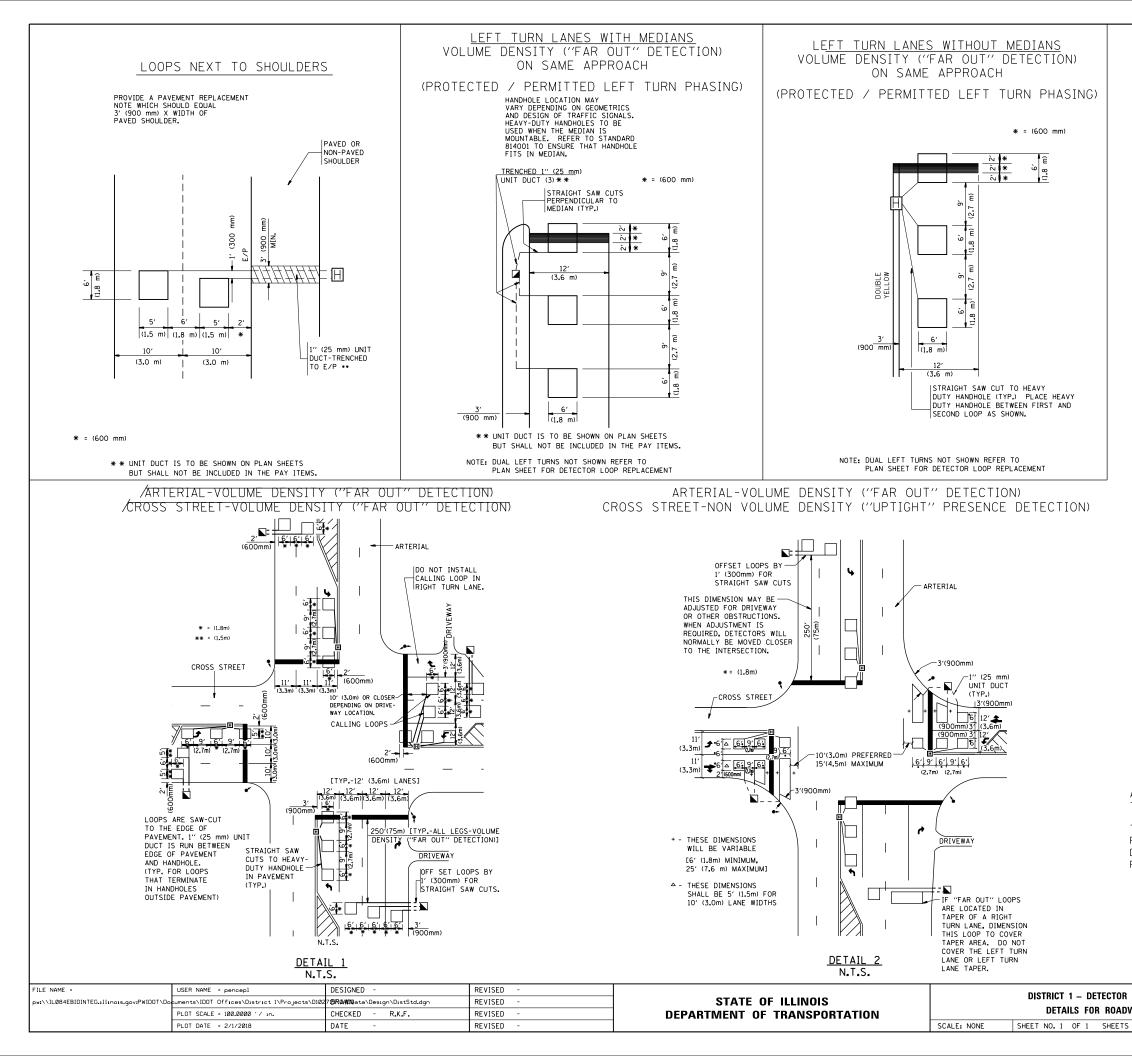
TYPE I LOOP



PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

JRFACES	(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
STAGGERED.	6 PRE-FORMED LOOP
R GRADE.	
R GRADE.	T POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL



VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, <u>MORE</u> THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON \underline{ALL} SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

LOOP INSTALLATION WAY RESURFACING		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		335	145RS&T-4 L/		42	42		
WAT RESURFACING				TS-07	CONTRACT	NO. 6	0Y83	
	STA.	TO STA.	FED. RC	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				