# 06-16-2017 LETTING ITEM 089

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGE OF LIBERTYVILLE

**TRAFFIC DATA** 

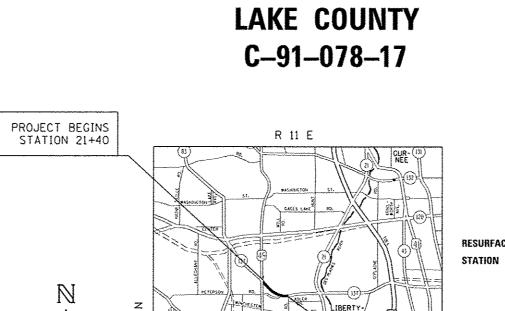
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ADT (2015) = 11,100SPEED LIMIT = 45 MPH



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**STATE OF ILLINOIS** 

**DEPARTMENT OF TRANSPORTATION** 

PROPOSED

**HIGHWAY PLANS** 

**FAP ROUTE 352: ILL 137** 

**US 45 TO BUTTERFIELD ROAD** 

SECTION: (2&3) R-RS-2

**RESURFACING (3P)** 

**PROJECT:** NHPP-0352 (016)

**RESURFACING OMISSION:** STATION 68+80 TO STATION 71+46

PROJECT ENDS

STATION 86+25

..... 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

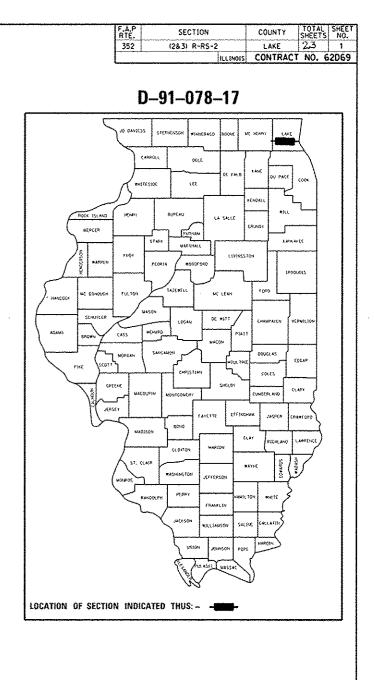
PROJECT ENGINEER: DAN WILGREEN /(847) 705-4240 PROJECT MANAGER: FAWAD AQUEEL /(847) 705-4247

GROSS LENGTH OF PROJECT = 6,485 FT. = 1.23 MILE NET LENGTH OF PROJECT = 6,219 FT. = 1.18 MILE

MUNDE-LEIN

LIBERTYVILLE TOWNSHIP

## CONTRACT NO. 62D69



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SURMITTER

## PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

## **INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5~8	TYPICAL SECTIONS
9-11	PLAN AND PROFILE SHEETS
12	DETECTOR LOOP REPLACEMENT PLAN
13	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
14	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
15	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
16	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
17	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
18	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
19	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
20	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
21	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
22	ARTERIAL ROAD INFORMATION SIGN (TC-22)
23	DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

## **STATE STANDARDS**

STANDARD NO.	DESCRIPTION		D PATCHING.					
STANDARD NU.	DESCRIPTION	10	BEFORE BEGINNING ANY WORK. THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE					
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS		ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKING SHALL BE AS DIRECTED BY THE ENGINEER.					
442201-03	CLASS C AND D PATCHES		THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT					
604001-04	FRAME AND LIDS TYPE 1		MARKING SHALL BE AS DIRECTED BY THE ENGINEER.					
604086-03	FRAME AND GRATE TYPE 23	11	PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL					
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER		SRUFACES.					
701006-05	OFF-RD OPERATIONS. 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE	15	THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, (WALTER CZARNY AT WALTER.CZARNY@ILLINOIS.GOV AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MAR					
701011-04	OFF-RD MOVING OPERATIONS. 2L, 2W. DAY ONLY		PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MAR					
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE	13	LOCATIONS OF PAVEMENT PATCHING AND CURB AND GUITER REMOVAL AND REPLACEMENT WILL BE AS					
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS		DETERMINED BY THTE ENGINEER.					
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY	14	BUTT JOINTS WILL BE INSTALLED AT THE END OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING					
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY		PAVEMENT), IN ACCORDANCE THE "BUTT JOINT AND HMA TAPER DETAILS" INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED					
701336-06	LANE CLOSURE 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS =>45 MPH	15	MATCH EXISTING PAVEMENT AT THE PROJECT LIMITS.					
701421-07	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS =>45 MPH TO 55 MPH	16	ALL DAMAMGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACOTORS EXPENSE.					
701426-08	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS => 45 MPH	17	THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING OWNERS OF ALL UTILITITES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL					
701601-09	URBAN LANE CLOSURE, MULTILANE, IW OR 2W WITH NONTRAVERSABLE MEDIAN		HITLITY FOLIDEMENT THE CONTRACTOR SHALL					
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION		COOPOERATE WITH ALL UTLITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTLITY RELOCATION, ADJUSTMENT, OR PROTECTION					
701901-06	TRAFFIC CONTROL DEVICES		IS NECISSARY					

			GENERAL	NOTES
	GENERAL	NOTES	NOTE NO.	DESCR
	NOTE NO.	DESCRIPTION	18	THE LO STORM
	1	BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION AT 8-1-1 OR (800) 892-0123 FOR FIELD LOCATION OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).	19	AND AN SHOWN EXACT BY THE
	2	IO FEET TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUITER ITEMS OF WORK TO EXISTINC CURBS AND GUITERS AND CONDITIONS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK	20	THE CO PROTEC UTILITI ON THE LOCATH CONTRA ANY LO OF DBA
	3	SPECIFIED. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES THE VILLAGE OF LIBERTYVILLE		NATURA CLOSE OF THE SHALL BE PAI AS INC
	4	THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.	21	CONTRA EXISTI REMOVE AND SH
	5	SAW CUTTING OF PAVEMENTS, SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING, ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED		AND SH ENGINE PAID F STANDA ITEM H
	6	DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS	22	FOR WO APPROA HIGHWA
	7	THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN, ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR SHALL BE REPAIRED AT THE		FOR RE PAVEME CURB A FOR CR
	8	WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC. THE MAXIMUM GRADE DIFFERENTIAL, BETWEEN PASSES OF THE MILLING MACHING SHALL NOT EXCEED 1.5 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRAD DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF MILLING IS SLOPED A MINUMUM OF 1:3 (V:H)		
	9	UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES WHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.		
S	10	BEFORE BEGINNING ANY WORK. THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKING SHALL BE AS DIRECTED BY THE ENGINEER.		
TE	11	PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SRUFACES.		
VEMENT EDGE	12	THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, (WALTER CZARNY AT WALTER.CZARNYØILLINOIS.COV AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.		
PAVEMENT EDGE	13	LOCATIONS OF PAVEMENT PATCHING AND CURB AND GUITER REMOVAL AND REPLACEMENT WILL BE AS DETERMINED BY THTE ENGINEER.		
DAY ONLY	14	BUTT JOINTS WILL BE INSTALLED AT THE END OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE THE "BUTT JOINT AND HMA TAPER DETAILS" INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED		
R SPEEDS	15	MATCH EXISTING PAVEMENT AT THE PROJECT LIMITS.		
, FOR	16	ALL DAMAMGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACOTORS EXPENSE.		
ING				

FILE NAME = USER NAME 4 curryaw DESIGNED ~ REVISED - 11-22-16 D.W. IL 137 (US 45 TO BUTTI REVISED - 5-4-2017 A.C. STATE OF ILLINOIS pw:\\IL084E8JDINTEG.:IJ:nois.gov:PWID0T\I menta/1001\_Offices/District\_I/Projects/010/80RAWN sta/Design/010/817-sht-gennote GENERAL NOT DEPARTMENT OF TRANSPORTATION PLOT SCALE + 180.0000 1/ 1m CHECKED -REVISED Jefoult. PLO1 DATE = 5/4/2017 DATE REVISED SCALE SHEET OF SHEETS

## ES (CONTINUED)

## CRIPTION

LOCATION OF EXISTING DRAINAGE STRUCTURES, RM SEWERS, WATER MAINS, SANITARY SEWERS, ANY OTHER PUBLIC OR PRIVATE UTILITIES AS WN ON THE PLANS IS APPROXIMATE AND THEIR CT LOCATION IS TO BE DETERMINED IN THE FIELD THE CONTRACTOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE TECTION OF ALL UNDERGROUND AND SURFACE ITES EVEN THOUGH THEY MIGHT NOT BE SHOWN THE PLANS IS APPROXIMATE AND THEIR EXACT ATION IS TO BE DETERMINED IN THE FIELD BY THE TRACTOR.

(LOOSE MATERIAL DEPOSITED IN THE FLOW LINE DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE URAL FLOW OF WATER SHALL BE REMOVED AT THE SE OF EACH WORKING DAY, PRIOR TO ACCEPTANCE THE IMPROVEMENT. ALL DRAINAGE STRUCTURES LL BE FREE OF DIRT AND DEBRIS. THIS WILL NOT PAID FOR SEPERATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT BID PRICES OF THE TRACT.

TING BROKEN FRAMES AND LIDS SHALL BE OVED AND DISPOSED OF BY THE CONTRACTOR SHALL BE REPLACED OF SO THE CONTRACTOR INEER. REPOLACEMENT FRAMES AND LIDS WILL BE OF ACCORDING TO ARTICLE 109.04 OF THE NOARD SPECIFICATIONS UNLESS A SEPERATE PAY A HAS BEEN PROVIDED.

WORK OUTSIDE THE LIMITS OF THE BRIDGE ROACH PAVEMENT, ALL REFERENCES IN THE WAY STANDARDS AND STANDARD SPECIFICATIONS REINFORCEMENT, DOWEL BARS AND TIE BARS IN EMEINT, SHOULDERS, CURB, GUTTER, COMBINATION B AND GUTTER ANDMEDIAN, AND CHAIR SUPPORTS CRC PAVEMENT,SHALL BE EPOXY COATED

TERFIELD RD.)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TES			(2&3) R-RS-2	COOK	21	2
169		1		CONTRACT	NO. 6	2069
STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

			URBAN									
	SUMMARY OF QUANTITIES				CONSTRU	ICTION TYPE				SUMMA	RY OF QUANTITIES	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE ROADWAY 0005					CODE NO		ITEM	UNIT
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	17	17		· · · · · · · · · · · · · · · · · · ·	-		48102100	AGGREGATE W	EDGE SHOULDER, TYPE B	TON
									60262700		E RECONSTRUCTED	EACH
25200110	SODDING. SALT TOLERANT	SO YD	17	17					60282700			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	32361	32361					60300105	FRAMES AND	CRATES TO BE ADJUSTED	EACH
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	72	72					60300305	FRAMES AND	LIDS TO BE ADJUSTED	EACH
	FLANGEWAYS									t		
									67100100	MOBILIZATIO	N	LSUM
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	2117	2117								
	METHOD), 11-4,75, N50								70100310	·	TROL AND PROTECTION,	LSUM
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	163	163						STANDARD 70	1421	
40000382	JOINT		165	105					70100460	TRAFFIC CON	TROL AND PROTECTION,	LSUM
										STANDARD 70	1306	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX	TON	4028	4028								
	"D", N70								70100600		TROL AND PROTECTION.	LSUM
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2	SO YD	40586	40586						STANDARD 70	1336	
	1/4"		10000						70102630	TRAFFIC CON	TROL AND PROTECTION.	LSUM
										STANDARD 70		
44000159	HOT-MIX ASPHALT SURFACE RENOVAL, 2	SO YD	7356	7356					70102635	STANDARD	TOITOI	Lsum
	1/2"						-		70300100	SHORT TERM	PAVEMENT MARKING	FOOT
44000500	COMBINATION CURB AND GUTTER REMOVAL	FQOT	100	100					70300150	SHORT TERM I	PAVEMENT MARKING REMOVAL	SO FT
44201789	CLASS D PATCHES. TYPE 11, 12 INCH	SO YD	479	479					70300210	TEMPORARY P	AVEMENT MARKING LETTERS AND	SQ FT
44001704				100						SYMBOLS		
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SO YD	192	192					70300220	TEMPORARY P	AVEMENT MARKING - LINE 4"	FOOT
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SO YD	288	288					3			· · · · · ·
FILE NAME 2 pm://LOB4EBIDINTEGJ	IIIIndisopryPHIDOT Occuments/UD7_Of Floes Clistical PProjects/DioT070/CADDeals/Design/Di0T070 PLOT_SCALE > 100,0000 * / 10. C	ESIGNED - SOUNDA - HECKED - ATE -		REVISED REVISED REVISED REVISED	· · · · · · · · · · · · · · · · · · ·			STATE OF IENT OF T	ILLINOIS RANSPORTA	TION	SUMMAR	Y OF QUAN

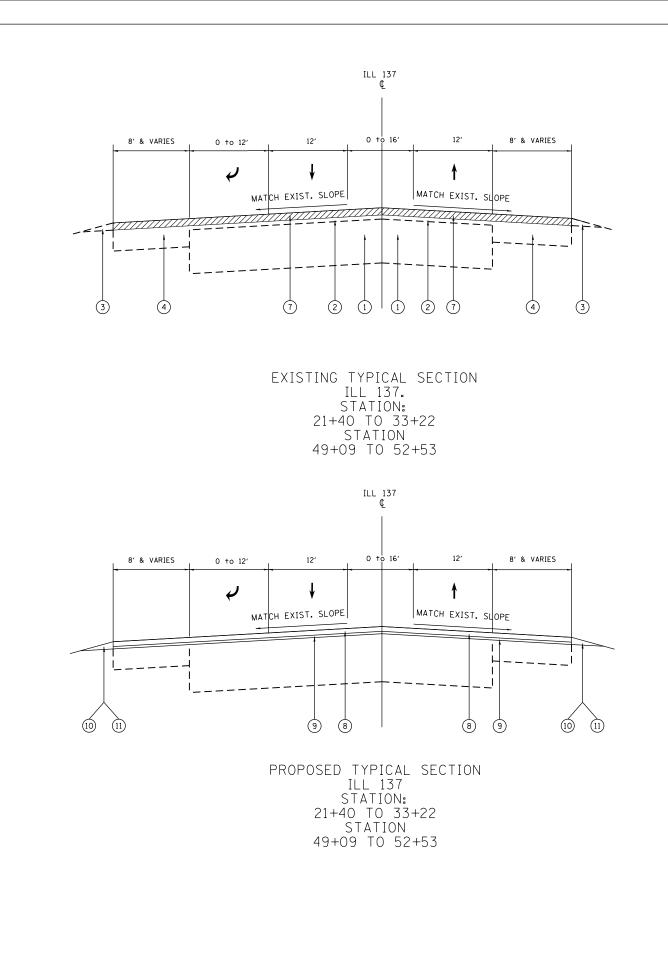
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	URBAN	-	ſ	ONSTRUCTI	ON TYPE	CODE	
	TOTAL QUANTITIES	80% FED 20% STATE ROADWAY 0005					
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	3841	3841					
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r	117	117					
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	26988	26988		······································			
					*	= SPECIAL	TY ITEMS
			F.A.P RTE.	SECTI		COUNTY	TOTAL SHEET SHEETS NO.
NTI STA.	TIES	) STA.	352	(283) R-		LAKE	23 3 NO. 62D69

Rev

			URBAN	<del>,</del>						1			URBAN	F				000	
	SUMMARY OF QUANTITIES					INSTRUCTION	ON TYPE C	100E	[		SUMMARY OF QUANTITIES					NSTRUCTIO	N IYPE L		1
CODE	ang mada ITEM	UNIT	QUANTITIES	BOZ FED 20% STATE ROADWAY 0005			******	a diverse and a second s		CODE NO	ITEM	UNIT	TOTAL QUANTITIES						
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	423	423						78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	213	213					
											REMOVAL						ļ		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1771	1771						_									
							_			* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	366	366			ļ		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	896	896						-									
										X2020110	GRADING AND SHAPING SHOULDERS	UNIT	125	125			<u> </u>	-	<u> </u>
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	52	52									· · · · · · · · · · · · · · · · · · ·						
								*		X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	12158	12158					
70300520	PAVEMENT MARKING TAPE. TYPE III 4"	FOOT	1921	1921						_									
										Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	100	100					•
* 78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	117	117	·						REMOVAL AND REPLACEMENT						·		
	LETTERS AND SYMBOLS									-			**************************************		ļ				
		·····								20030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4			·		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	26988	26988						-							·		
	4"									-									
										-			* * *				 		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	423	423						-			****				·		
	6″								na vere er en anna c'her										
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	1771	1771															
	8"								r fer vin de										
				0.06															
* 78000600	THERMOPLASTIC PAVEMENT MARKING ~ LINE	FOOT	896	896							·····								
	12"																		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	51.3	51.3															
	24"																		
							-												
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	213	213					**************************************		······································		***						
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										6	· · · · · · · · · · · · · · · · · · ·		-				* :	SPECIALT	ITEMS
FILE NAME :	USER NAME = curryow	DESIGNED -	1	REVISED	-	1		<u> </u>			L				F,A,P RTÉ.	SECTIO	0N	COUNTY T	OTAL SHEE HEETS NO.
pm/VLOB4EBIDINTEG	Jilinals.gov.PWiD0T-Qoouments/D07_011(cos/Qlsicic)_NProjects/Di07817-CADData/Design/D10781	-DRICENUA -		REVISED			_			ILLINOIS	TION SHAMIN	ARY OF QUANT	ITIES		352	(2&3) R-R	R\$~2	LAKE	23 4
	PLOT SCALE = /00/0000 -/ /A PLOT DATE = 4/5/20/7	CHECKED - DATE -	••••	REVISED			D	CPARIME	141 UF	TRANSPORTA	SCALE: SHEET NO, OF			TO STA.	FED. AO	AD DIST. NO. 1 LLL		CONTRACT N PROJECT	10. 62069

2



(1) EXIST. P.C. CONCRETE PAVEMENT , $\pm$ 9"
2 EXIST. HOT-MIX ASPHALT SURFACE COURS
3 EXIST. AGGREGATE SHOULDER
(4) EXIST. HOT-MIX ASPHALT SHOULDER, 8"
5 EXISTING DITCH
6 EXISTING PC CONCRETE MEDIAN
6A EXIST. CONCRETE CURB AND GUTTER TYP
7 PROP. HMA SURFACE REMOVAL 21/4"
8 PROP. HOT-MIX ASPHALT SURFACE COURS
(9) PROP. POLYMERIZED LEVELING BINDER (M
10 PROP. AGGREGATE WEDGE SHOULDER, TYPE
(11) PROP. GRADING AND SHAPING SHOULDERS

LEGEND

## HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS (%) @ Ndes	OMP
-PAVEMENT RESURFACING-		
HOT-MIX ASPHALT SURFACE COURSE, MIX"D", N70, IL-9.5mm	4.0% @ 70 GYR.	QCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 GYR.	QCP
-PATCHING-		
CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA

OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)

NOTES:

QUALITY MANAGEMENT PROGRAM (OMP) ITDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTATIES IS 112 LBS/SQYD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXTURES 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.

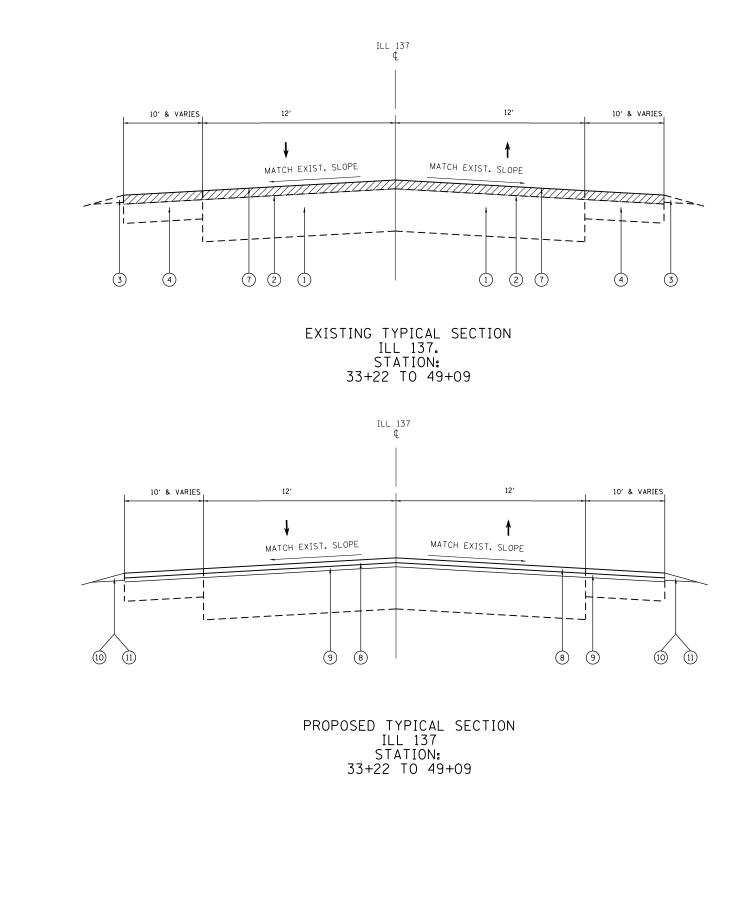
FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS

MILLING SHALL BE DONE PRIOR TO PATCHING

FILE NAME =		USER NAME = curryaw	DESIGNED - TARHONDA WHITE	REVISED -		ILI	L 137 (US 45 TO BUTTERFIELD ROAD)	F.A.P. RTE.	SECTION	COUNTY S	OTAL SHEET HEETS NO.
pw:\\IL084EBIDI	-	uments\IDOT Offices\District 1\Projects\D107		REVISED -			TING AND PROPOSED TYPICAL SECTIONS	352	(2&3) R-RS-2	LAKE	23 5
		PLOT SCALE = 100.0000 ' / 10. PLOT DATE = 4/5/2017	CHECKED - DATE -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: NONE SHE	EET NO. OF SHEETS STA. 17+94 TO STA. 1+82		ILLINOIS FED. A		NO. 62D69

,<u>+</u>9′′ CE COURSE (BEFORE MILLING),  $\pm 5^{1}/_{4}$ " )ER, 8′′

TER TYP B-6. 12 /4'' E COURSE, MIX ''D'', N70,  $1^{1}/_{2}$ '' NDER (MM), IL-4.75, N50, $\frac{3}{4}$ )ER, TYPE B



## LEGEND

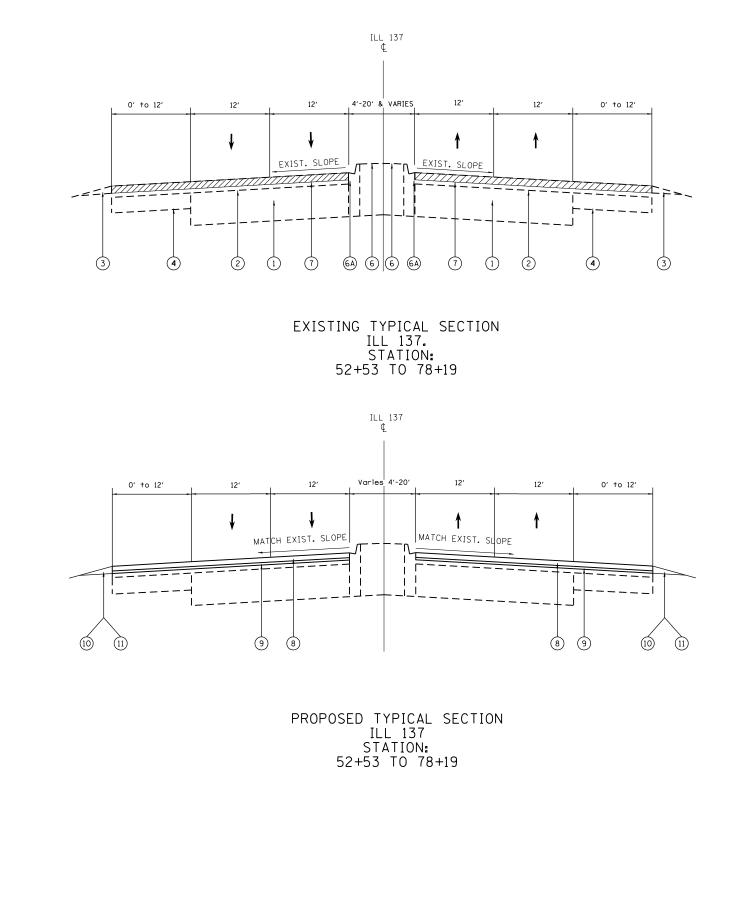
(3) EXIST. AGGREGATE SHOULDER

(1) EXIST. P.C. CONCRETE PAVEMENT,  $\pm$  9" \*(2) EXIST. HOT-MIX ASPHALT SURFACE COURSE (BEFORE MILLING),  $\pm 2^{1/2''}$ (4) EXIST. HOT-MIX ASPHALT SHOULDER, 8" (5) EXISTING DITCH (6) EXISTING PC CONCRETE MEDIAN (6A) EXIST. CONCRETE CURB AND GUTTER TYP B-6. 12 (7) PROP. HMA SURFACE REMOVAL  $2^{1}/_{2}$ " \* (8) PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 11/2" \* (9) PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 1" (10) PROP. AGGREGATE WEDGE SHOULDER, TYPE B

- (11) PROP. GRADING AND SHAPING SHOULDERS

\* MILLING THICKNESS IS 21/2" FROM STA. 33+22 TO 49+09

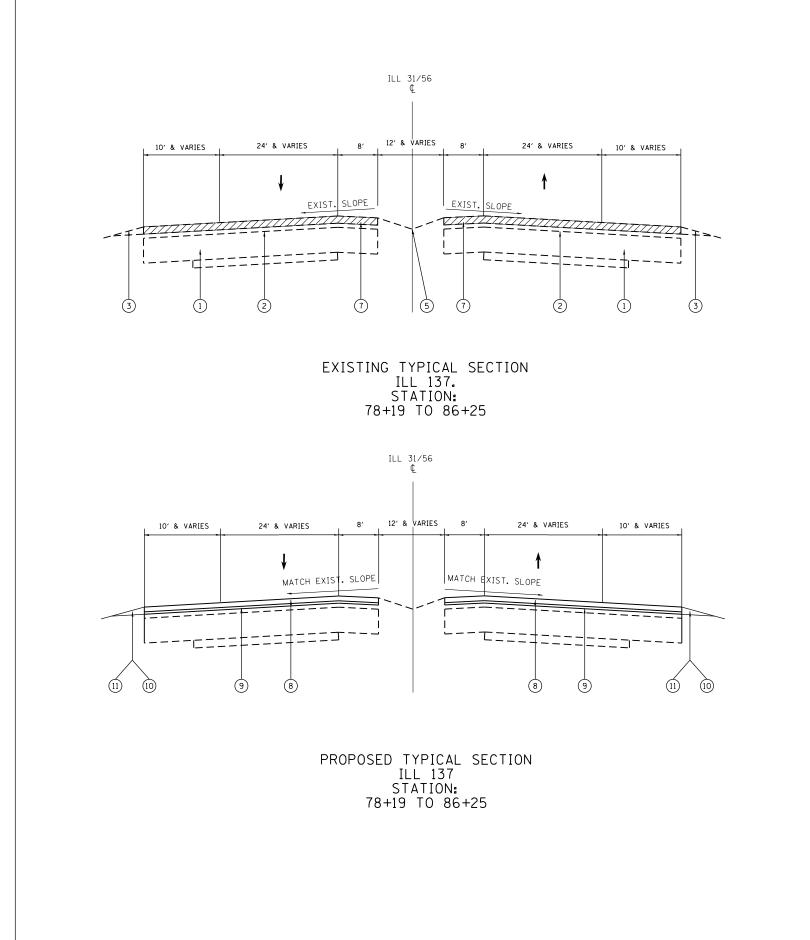
FILE NAME =	USER NAME = curryaw	DESIGNED - TARHONDA WHITE	REVISED -			ILL 137 (US 45 TO BUTTERFIELD ROAD)	F.A.P.	SECTION	COUNTY	TOTAL SHEET
pw:\\ILØ84EBIDINTEG.1111no15.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D	010781 <b>77R0410</b> 9ata\Design\D107817-sht-typical.dg	n REVISED -	STATE OF ILLINOIS			352	(2&3) R-RS-2	LAKE	23 6
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS				CONTRAC	
	PLOT DATE = 4/5/2017	DATE -	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS STA. 17+94 TO STA. 1+82		ILLINOIS FED.	AID PROJECT	



LEGEND
(1) EXIST. P.C. CONCRETE PAVEMENT , $\pm$ 9"
2 EXIST. HOT-MIX ASPHALT SURFACE COURS
3 EXIST. AGGREGATE SHOULDER
(4) EXIST. HOT-MIX ASPHALT SHOULDER, 8"
5 EXISTING DITCH
6 EXISTING PC CONCRETE MEDIAN
6A EXIST. CONCRETE CURB AND GUTTER TYP
7) PROP. HMA SURFACE REMOVAL 21/4"
8 PROP. HOT-MIX ASPHALT SURFACE COURSE
9 PROP. POLYMERIZED LEVELING BINDER (MM
10 PROP. AGGREGATE WEDGE SHOULDER, TYPE
(11) PROP. GRADING AND SHAPING SHOULDERS

FILE NAME =	USER NAME = curryaw	DESIGNED - TARHONDA WHIT				ILL 137 (US 45 TO BUTTERFIELD ROAD)	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
pw://IL084EBIDINTEG.111nois.gov:F	WIDOT\Documents\IDOT Offices\District 1\Projects\D18		-	STATE OF ILLINOIS		EXISTING AND PROPOSED TYPICAL SECTIONS	352	(2&3) R-RS-2	LAKE 23 7
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			_		CONTRACT NO. 62D69
	PLOT DATE = 4/5/2017	DATE -	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS STA. 17+94 TO STA. 1+82		ILLINOIS FED. 4	AID PROJECT

T,  $\pm 9''$ CE COURSE (BEFORE MILLING),  $\pm 5^{1}/_{4}''$ DER, 8'' TER TYP B-6. 12  $/_{4}''$ E COURSE, MIX ''D'', N70,  $1^{1}/_{2}''$ INDER (MM), IL-4.75, N50,  $\frac{3}{_{4}}''$ DER, TYPE B

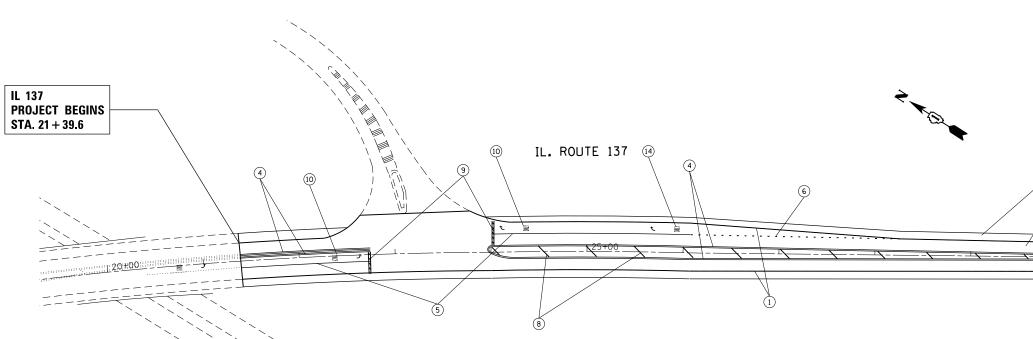


LEGEND (1) EXIST. P.C. CONCRETE PAVEMENT , ± 9" (3) EXIST. AGGREGATE SHOULDER (4) EXIST. HOT-MIX ASPHALT SHOULDER, 8" (5) EXISTING DITCH (6) EXISTING PC CONCRETE MEDIAN (6A) EXIST. CONCRETE CURB AND GUTTER TYP B-6. 12 (7) PROP. HMA SURFACE REMOVAL  $2^{1}/_{4}$ "

- (9) PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- (10) PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PROP. GRADING AND SHAPING SHOULDERS

FILE NAME =	USER NAME = curryaw	DESIGNED - TARHONDA WHITE	REVISED -			ILL 137 (US 45 TO BUTTERFIELD ROAD)	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
	cuments\IDOT_Offices\District_I\Projects\D10		-	STATE OF ILLINOIS	.	EXISTING AND PROPOSED TYPICAL SECTIONS	352	(2&3) R-RS-2	LAKE 23 8
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		ENISTING AND PROPOSED ITPICAL SECTIONS			CONTRACT NO. 62D69
	PLOT DATE = 4/5/2017	DATE -	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS STA. 17+94 TO STA. 1+82		ILLINOIS FED. AI	D PROJECT

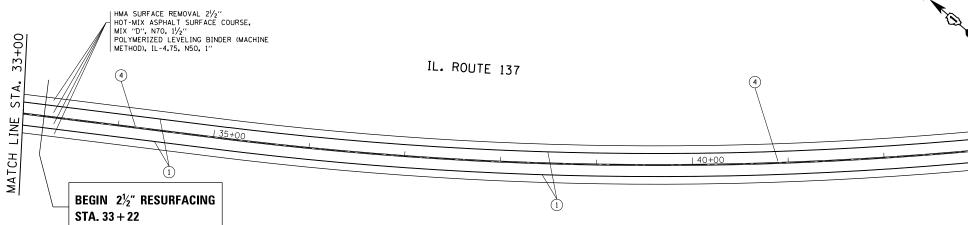
(2) EXIST. HOT-MIX ASPHALT SURFACE COURSE (BEFORE MILLING),  $\pm 5^{1}/_{4}$ " (8) PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70,  $1^{1}/_{2}$ "



### PROPOSED PAVEMENT MARKINGS LEGEND

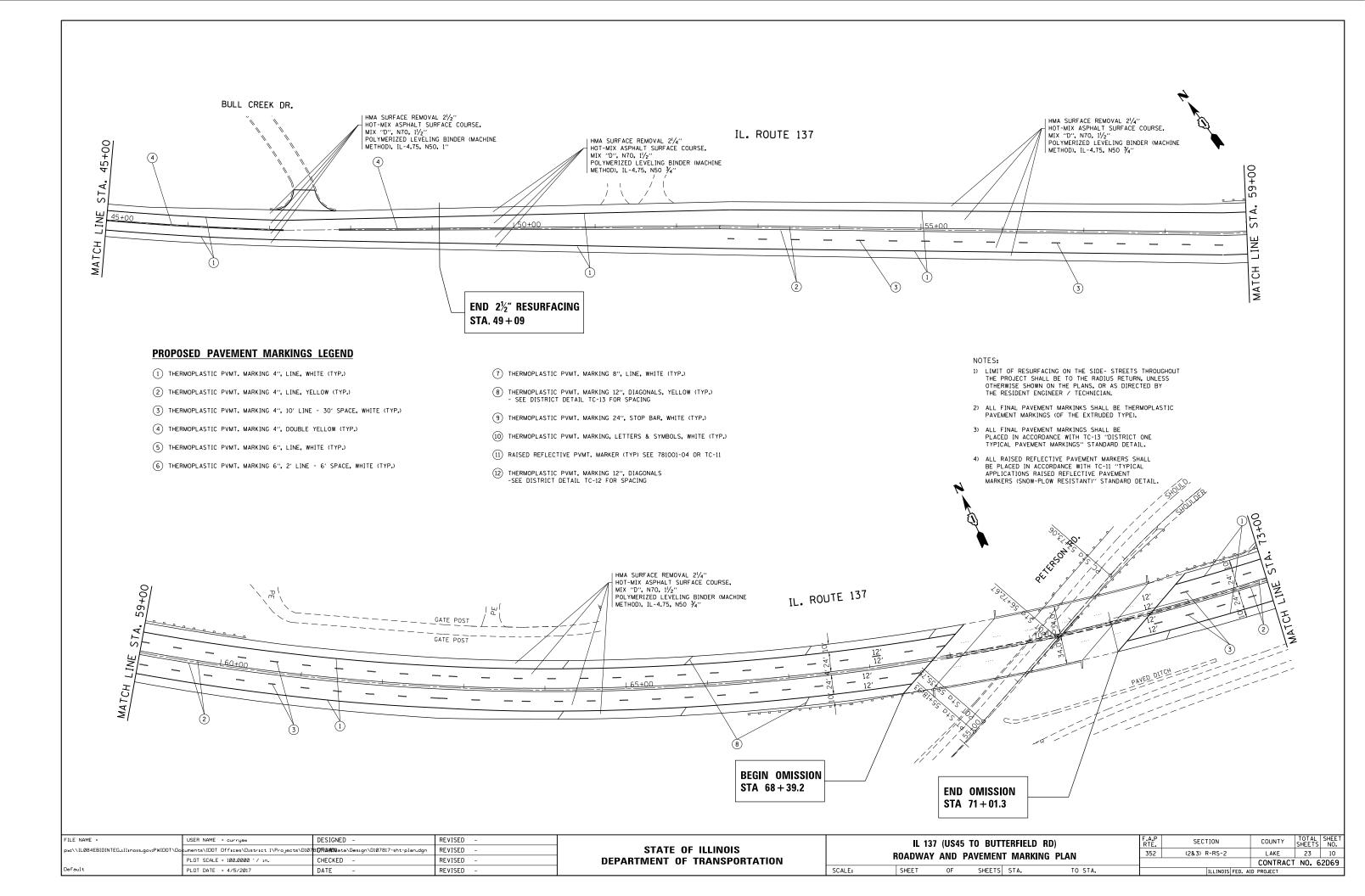
- 1 THERMOPLASTIC PVMT. MARKING 4", LINE, WHITE (TYP.)
- (2) THERMOPLASTIC PVMT. MARKING 4", LINE, YELLOW (TYP.)
- (3) THERMOPLASTIC PVMT. MARKING 4", 10' LINE 30' SPACE, WHITE (TYP.)
- (4) THERMOPLASTIC PVMT. MARKING 4", DOUBLE YELLOW (TYP.)
- 5 THERMOPLASTIC PVMT. MARKING 6", LINE, WHITE (TYP.)
- (6) THERMOPLASTIC PVMT. MARKING 6", 2' LINE 6' SPACE, WHITE (TYP.)

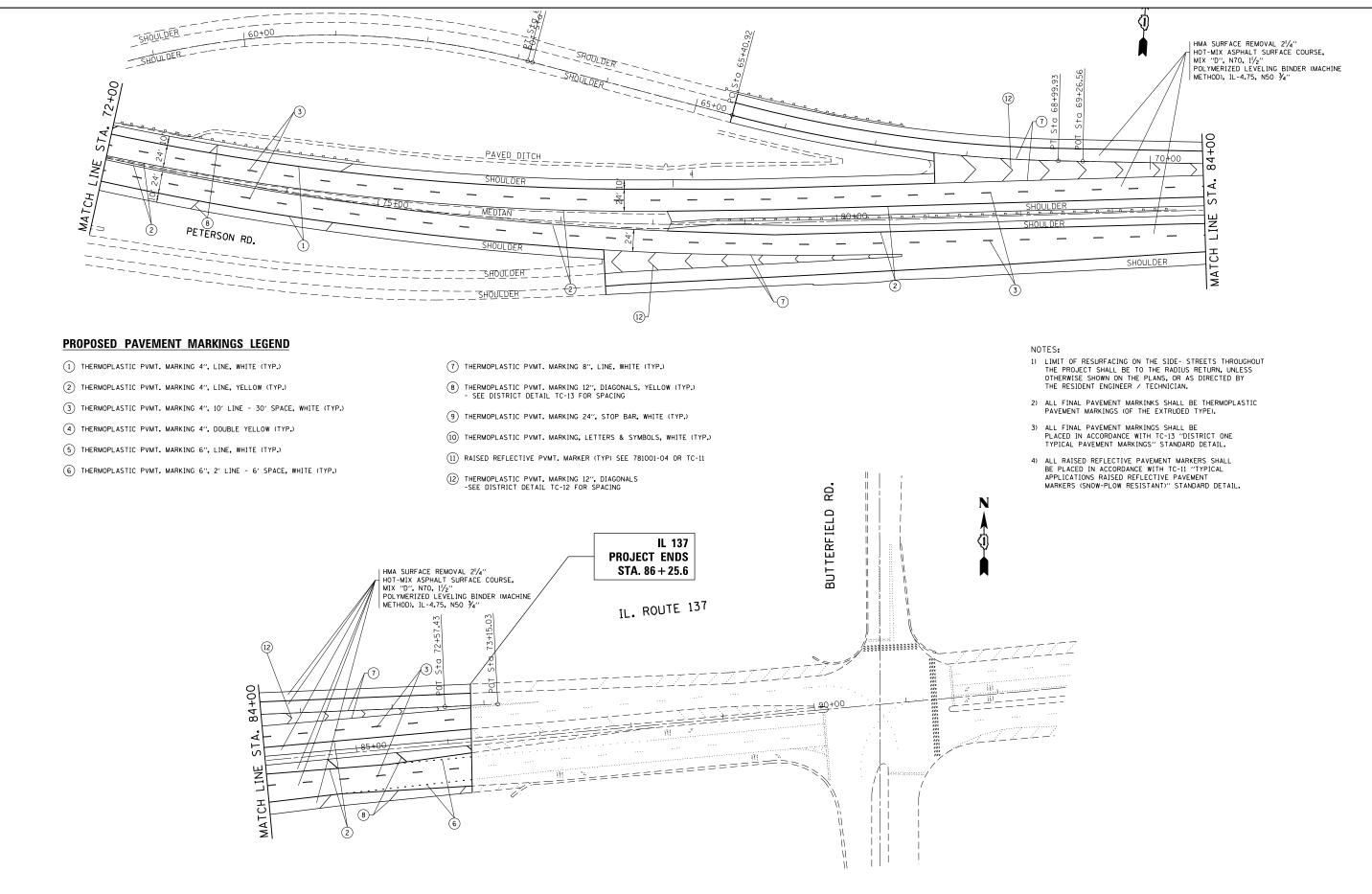
- (7) THERMOPLASTIC PVMT. MARKING 8", LINE, WHITE (TYP.)
- (8) THERMOPLASTIC PVMT. MARKING 12", DIAGONALS, YELLOW (TYP.) - SEE DISTRICT DETAIL TC-13 FOR SPACING
- (9) THERMOPLASTIC PVMT. MARKING 24", STOP BAR, WHITE (TYP.)
- (10) THERMOPLASTIC PVMT. MARKING, LETTERS & SYMBOLS, WHITE (TYP.)
- (11) RAISED REFLECTIVE PVMT. MARKER (TYP) SEE 781001-04 OR TC-11
- 12) THERMOPLASTIC PVMT, MARKING 12", DIAGONALS -SEE DISTRICT DETAIL TC-12 FOR SPACING



FILE NAME =	USER NAME = curryew	DESIGNED -	REVISED -			II 13	7 (119/15		TERFIELD R	וחי	F.A.P	SECTION	COUNTY	TOTAL SHEET
pw://IL084EBIDINTEG.111no1s.gov:PWIDOT/Do	cuments\IDOT Offices\District 1\Projects\D10	8 <b>D/RGAMIN</b> ata\Design\D107817-sht-plan.dgn	REVISED -	STATE OF ILLINOIS			•		NT MARKING	•	352	(2&3) R-RS-2	LAKE	23 9
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		NUADWAT		AVENIEN		J FLAN			CONTRAC	T NO. 62D69
Default	PLOT DATE = 4/5/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

HMA SURFACE REMOVAL 2¼" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO, 1½" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 ⅔4" (4) 33+00 STA. LINE MATCH NOTES: LIMIT OF RESURFACING ON THE SIDE- STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN. ALL FINAL PAVEMENT MARKINKS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE). 3) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL. 4) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL. HMA SURFACE REMOVAL 21/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO, 11/2" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1" ìn LINE MATCH





FILE NAME =	USER NAME = curryaw	DESIGNED -	REVISED -			IL 13	7 (US45	TO BUT	TERFIELD I	RD)	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
pw:\\IL084EBIDINTEG.111:nois.gov:PWID	DOT\Documents\IDOT_Offices\District_1\Projects\D10			STATE OF ILLINOIS					IT MARKIN		352	(2&3) R-RS-2	LAKE	23 11
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		NUADWAI		AVENIEN					CONTRA	CT NO. 62D69
Default	PLOT DATE = 4/5/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

## NOTES:

Default

PLOT DATE = 3/2920017

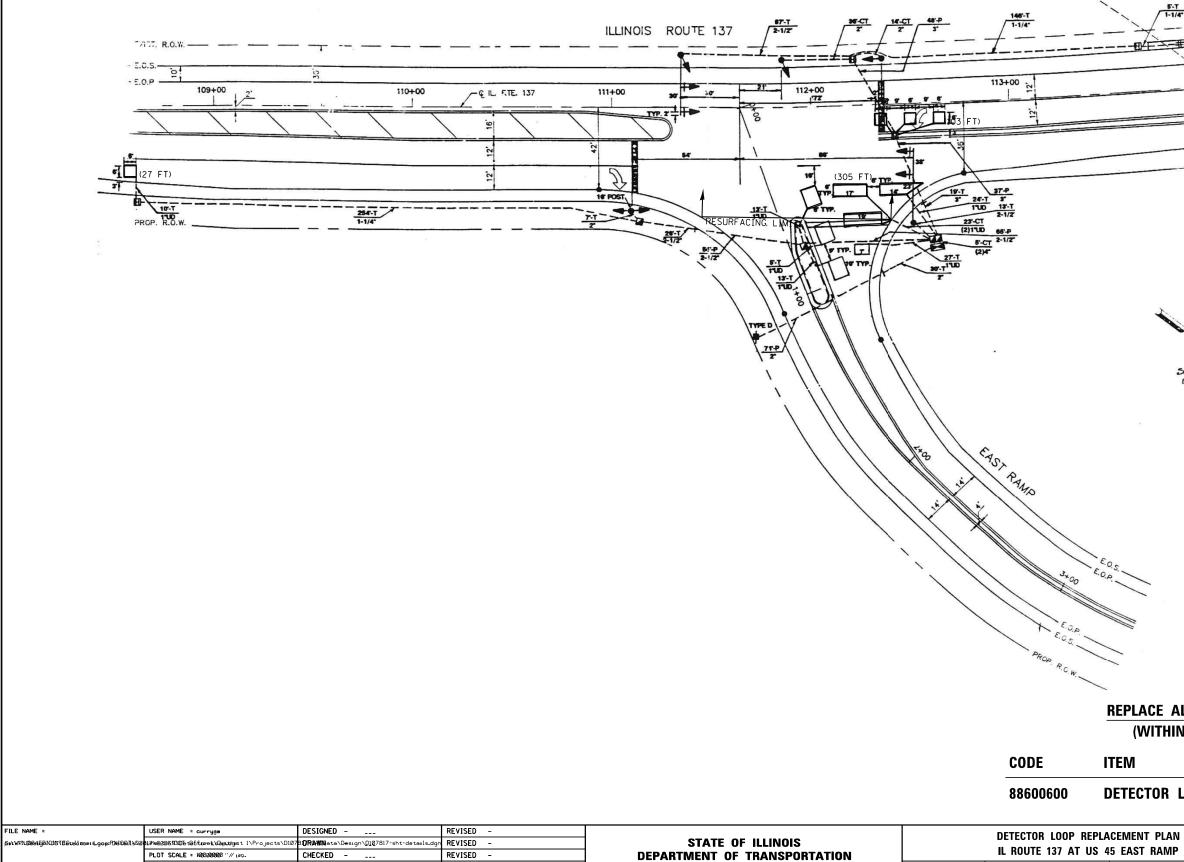
DATE

-

REVISED -

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

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



5-T 1-1/4 	SON FITTINGS
11++00	DETECTOR LOOP, TYPE
	í.



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

## ITEM

SCALE:

SHEET

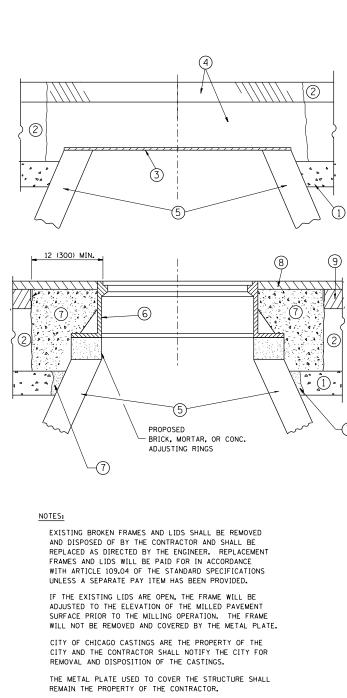
### QUANTITY UNIT

366

# FOOT

## **DETECTOR LOOP REPLACEMENT**

COUNTY TOTAL SHEET SHEETS NO. LAKE 23 12 SECTION RTE. (2 & 3) R-RS-2 352 IL ROUTE 137 AT US 45 EAST RAMP CONTRACT NO. 62D69 OF SHEETS STA. TO STA, ILLINOIS 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

FIL	E NAME =	USER NAME = curryaw	DESIGNED - R. SHAH	REVISED	- R. WIEDEMAN 05-14-04			DETAILS FOR	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
pw:	\\IL084EBIDINTEG.1llinois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D107	81 <b>07R0440N</b> ata\Design\Diststd.dgn	REVISED	- R. BORO 01-01-07	STATE OF ILLINOIS		FRAMES AND LIDS ADJUSTMENT WITH MILLING	352	(2&3) R-RS-2	LAKE	23 13
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	- R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION		FRAMES AND LIDS ADJUSTMENT WITH MILLING	E	3D600-03 (BD-8)	CONTRAC	CT NO. 62D69
		PLOT DATE = 4/5/2017	DATE - 10-25-94	REVISED	- R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID 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:

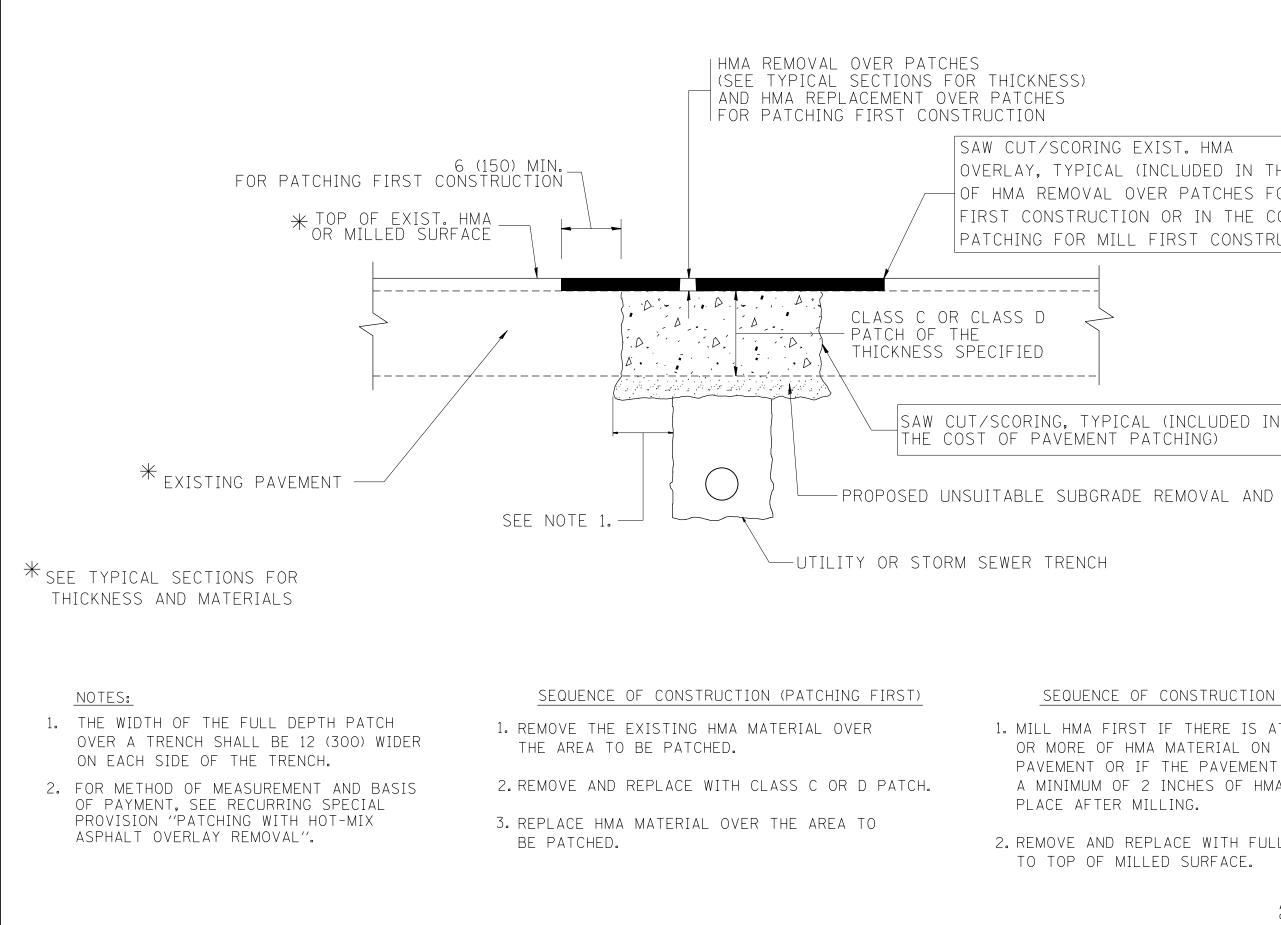
THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

### 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.



F	ILE NAME =	USER NAME = curryaw	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING FOR		F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
p	2	•	781 <b>07R/AMIN</b> ata\Design\Diststd.dgn	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		HMA SURFACED PAVEMENT		352	(2&3) R-RS-2	LAKE	23 14
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION				BD	100–04 (BD–22)	CONTRACT	NO. 62D69
		PLOT DATE = 4/5/2017	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD [	DIST. NO. 1 ILLINOIS F	ED. AID PROJECT	

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).

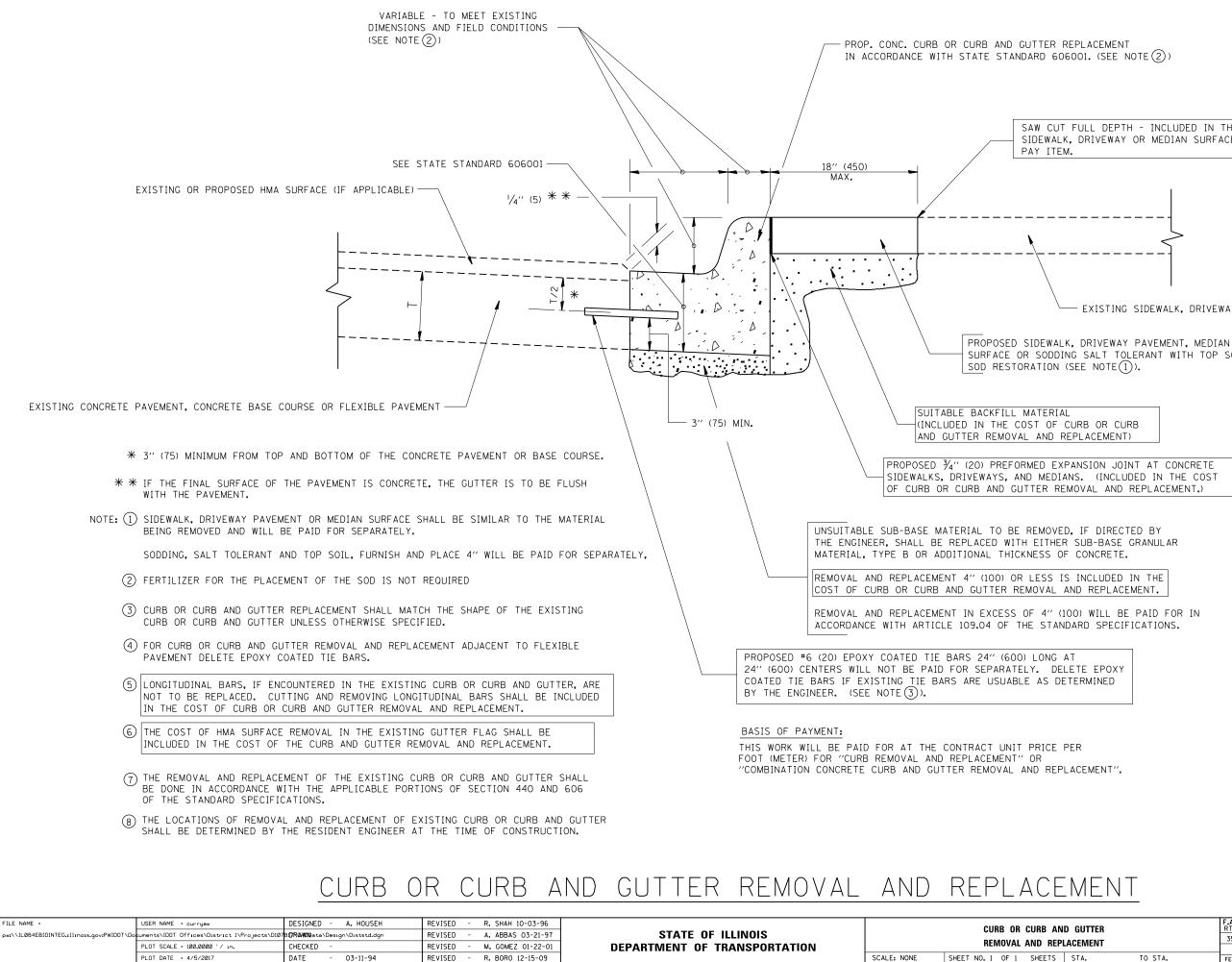
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

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.



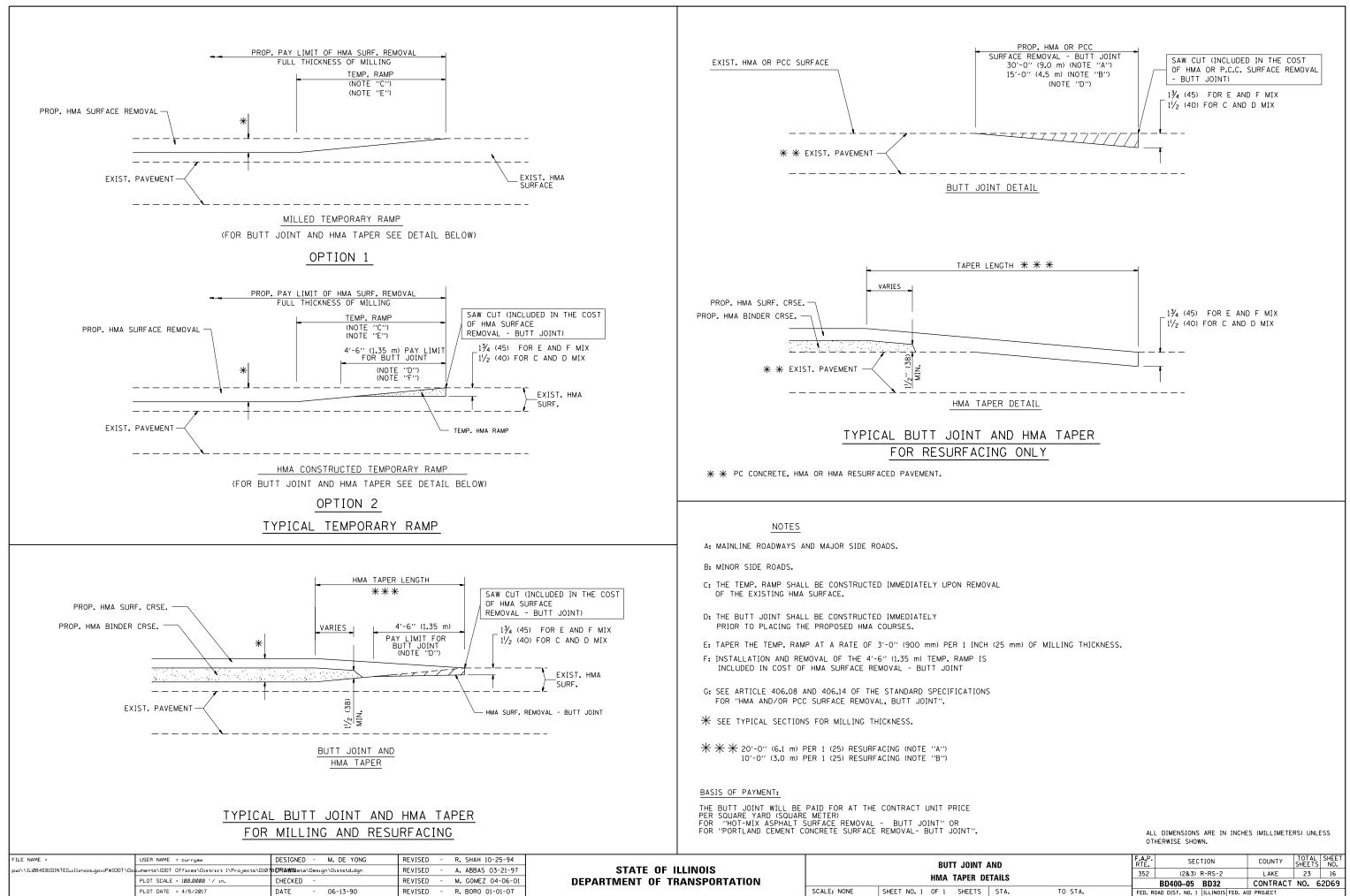
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

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

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

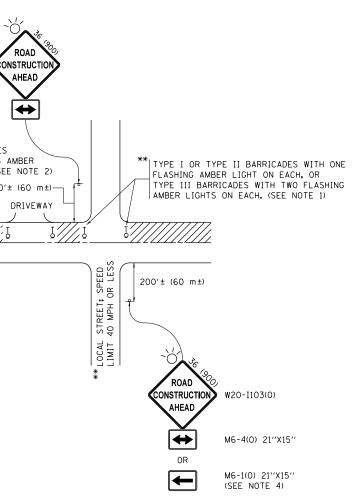
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

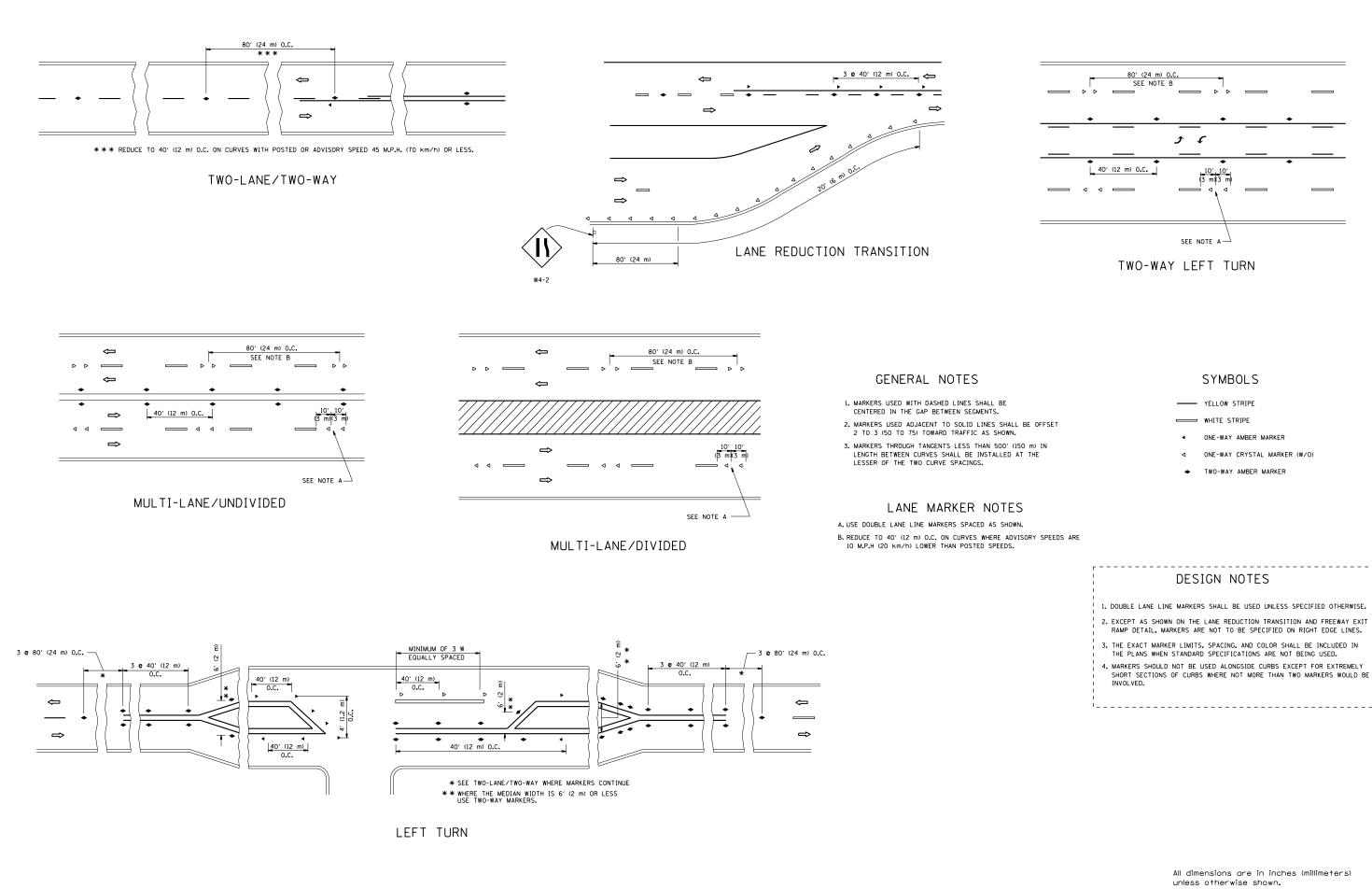
ND GUTTER PLACEMENT		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		352	(2&3) R-RS-2	LAKE	23	15	
			BD600-06 (BD-24)	CONTRACT	NO. 6	2D69	
,	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



AND		F.A.P. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
		352	(2&3)	R-RS-2		LAKE	23	16	
			BD400-05	BD32		CONTRACT	NO. 6	2D69	
	STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED. AI	D PROJECT		

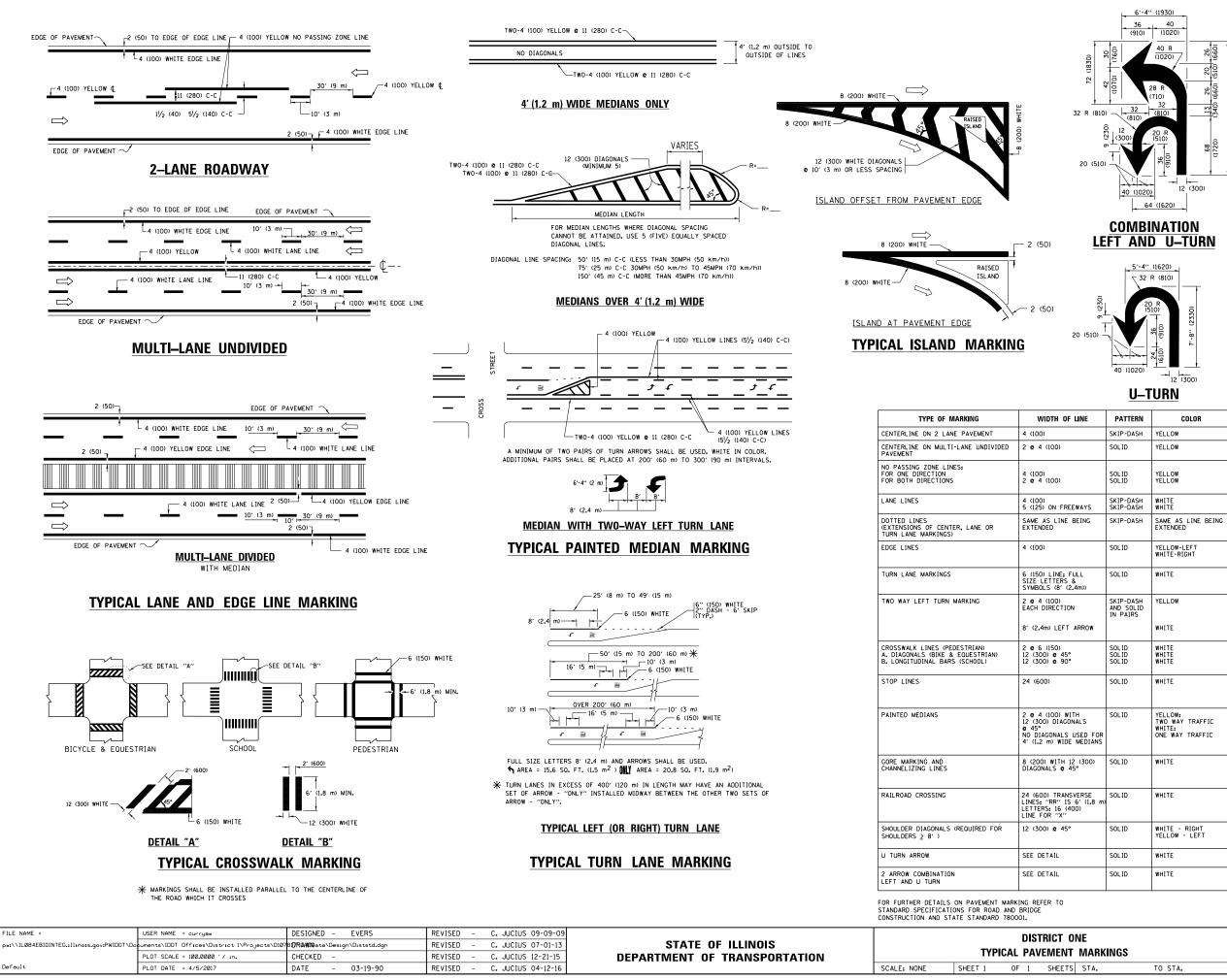
	THE III BARICADES WITH OVE THE UNIT WORK OF THE III BARICADES WITH OVE THE UNIT WORK OF THE UNIT ON EACH, OSE NOTE 21 THE UNIT WORK OF THE UNIT ON EACH, OSE NOTE 21 THE UNIT ON EACH,
	<ul> <li>NOTES:</li> <li>1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENSINEER:</li> <li>a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m IN ADVANCE OF THE MAIN ROUTE)</li> <li>b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III TAPPROXIMATELY 200' (60 m IN ADVANCE OF THE MAIN ROUTE)</li> <li>c) THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>c) SIDE ROAD WITH TYPE II TYPE III TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>c) SIDE ROAD WITH TYPE JUST AND AS DIRECTED BY THE ENGINEER:</li> <li>a) ONE "ROAD CONSTRUCTION AFEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>c) ONE "ROAD CONSTRUCTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>c) ONE "ROAD CONSTRUCTION AFEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.</li> <li>b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>c) ONE "ROAD CONSTRUCTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>c) CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUNS AT HALF THE SPACING DURING DAY OPERATIONS, CONES SHALL BE A MINIMUM OF 28 (TID) IN HEIGHT.</li> <li>when HE SIDE ROAD LIES BETWEEN THE BEGINING OF THE MAIN.IME SIGNIG AMD THE WORK ZONE, A SINCE HEADED ARROW IMG-4),</li> </ul>
FILE NAME =       USER NAME = curryow       DESIGNED -       L.H.A.       REVISED -       A. HOUSEH 10-15-96         pwt\VIL084EBIDINTEG.illinois.gov#PWIDDT\Documents\IDDT Offices\District I\Projects\DI07BDRAMINote\Design\Diststd.dgn       REVISED -       A. HOUSEH 10-15-96         Put       PLOT SCALE = 100.0000 '/ in.       CHECKED -       REVISED -       A. SCHUETZE 07-01-13         Default       PLOT DATE = 4/5/2017       DATE -       06-89       REVISED -       A. SCHUETZE 09-15-16	All dimensions are in inches (millimeters) unless otherwise shown.  TRAFFIC CONTROL AND PROTECTION FOR STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  TO STALE NONE SCALE: N

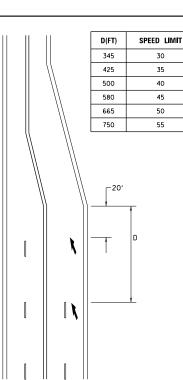




FILE NAME =	USER NAME = curry <b>a</b> w	DESIGNED -	REVISED - T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS	F.A.P.	SECTION	COUNTY TOTAL SHEET
pw:\\IL084EBIDINTEG.1111no1s.gov:PWIDOT\Do	uments\IDOT Offices\District 1\Projects\D107	8 <b>1)R(AWD)</b> ata\Design\Diststd.dgn	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS				(2&3) R-RS-2	LAKE 23 18
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			TC-11	CONTRACT NO. 62D69
	PLOT DATE = 4/5/2017	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. 4	AID PROJECT

4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.





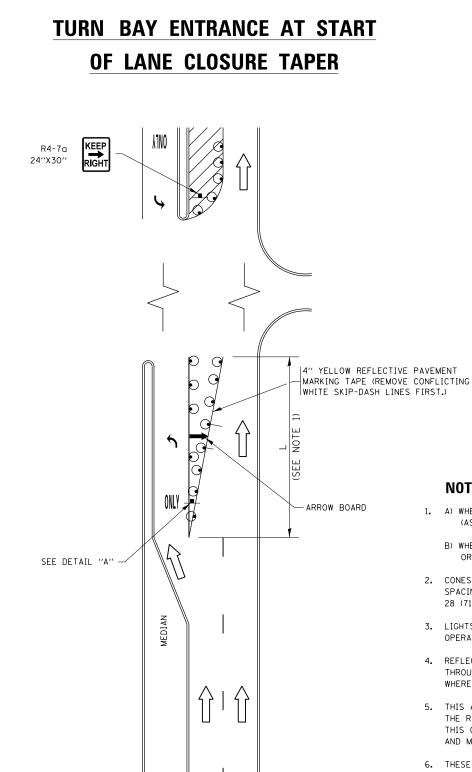
## LANE REDUCTION TRANSITION

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

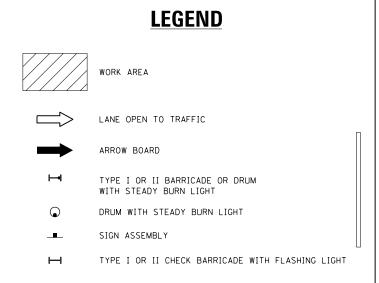
PATTERN	COLOR	SPACING /REMARKS
SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
SOLID	YELLOW	11 (280) C-C
SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (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, OTHEWNISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
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 (0VER 45MPH (70 km/h))
SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO, FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SO, FT. (5.0 m <sup>2</sup> )
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
	SKIP-DASH SOLID SOLID SOLID SKIP-DASH SKIP-DASH SKIP-DASH SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID	SKIP-DASHYELLOWSOLIDYELLOWSOLIDYELLOWSOLIDYELLOWSOLIDYELLOWSKIP-DASHWHITESKIP-DASHSAME AS LINE BEINGSOLIDYELLOW-LEFTSOLIDWHITESOLIDYELLOWSOLIDWHITE <tr< td=""></tr<>

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

ONE			F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
T MARKINGS		352	(2&3) R-RS-2		LAKE	23	19	
				TC-13		CONTRACT	NO. 6	2D69
TS	STA.	TO STA.		ILLINOIS FED. AID PROJECT				

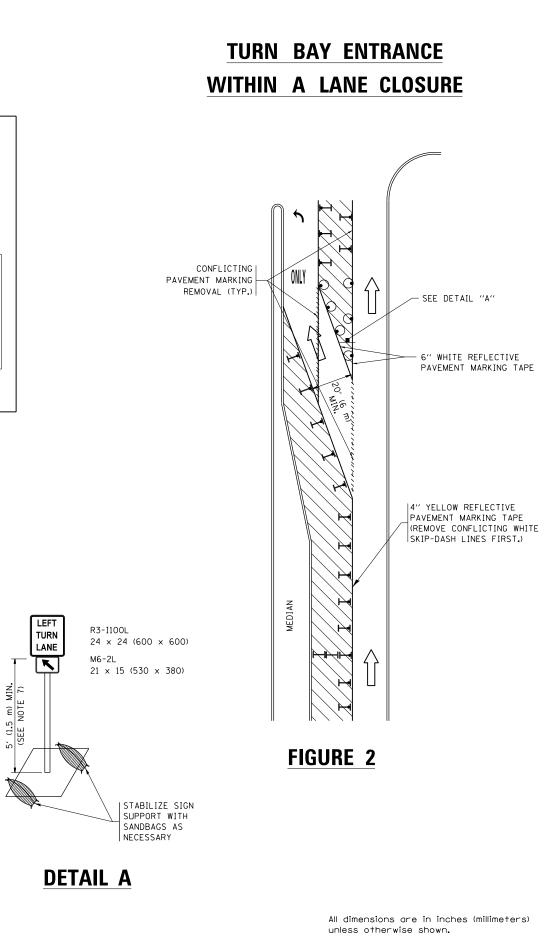


**FIGURE 1** 

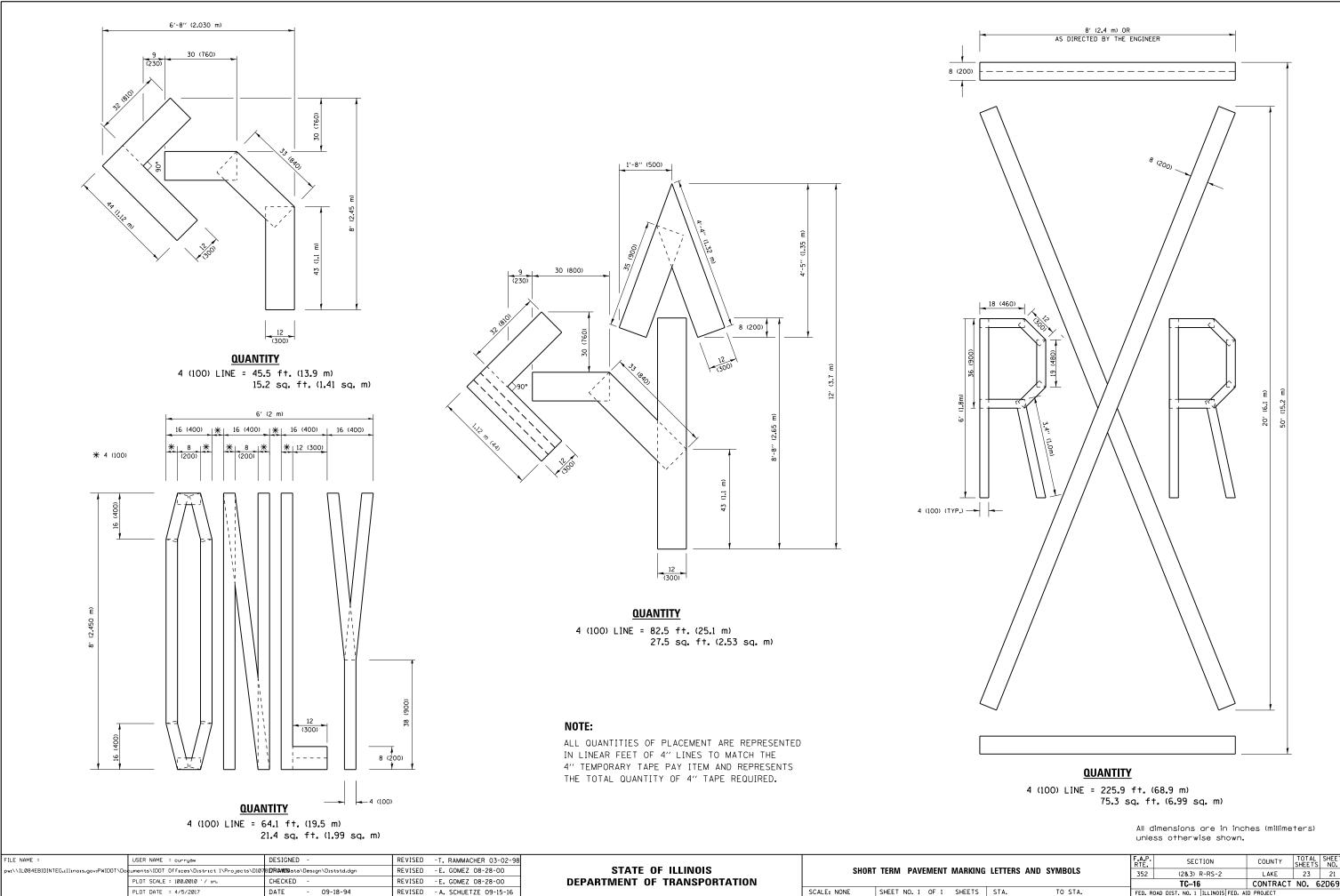


## NOTES:

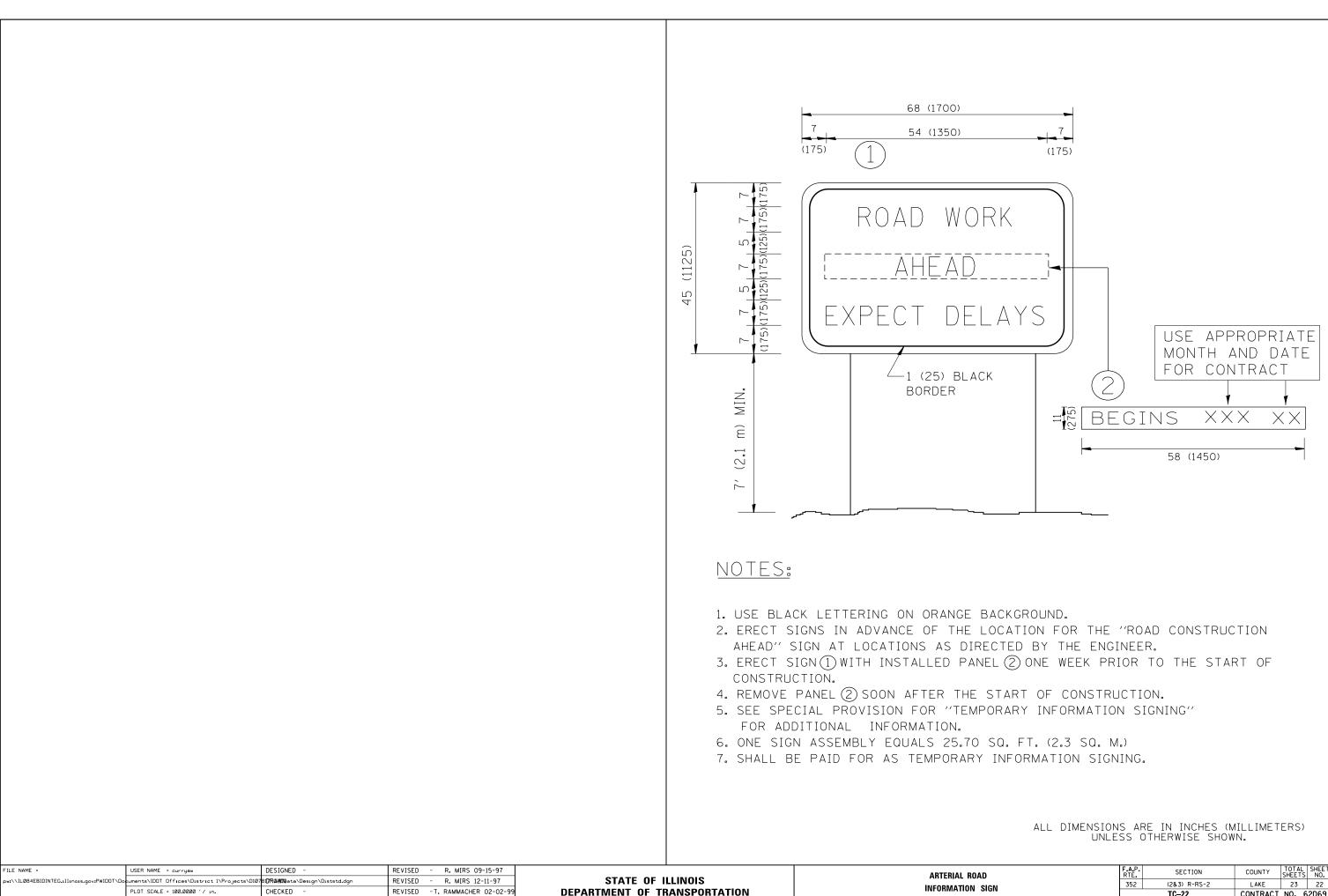
- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. 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 = curryaw	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09		TRAFFIC CONTROL AND PROTECTION AT TURN BAYS	F.A.P RTF.	SECTION	COUNTY TOTAL SHEET
pw:\\ILØ84EBIDINTEG.1111001	is.gov:PWIDOT\Documents\IDOT_Offices\District_1\Projects\D10	781761745060.a\Design\001sH0US06H 11-07-95	REVISED - A. SCHUETZE 07-01-13		(TO REMAIN OPEN TO TRAFFIC)		(2&3) R-RS-2	LAKE 23 20
	PLOT SCALE = 100.0000 '/ in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION			TC-14	CONTRACT NO. 62D69
Default	PLOT DATE = 4/5/2017	REVISED - T. RAMMACHER 01-06-00	REVISED -	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. A	ID PROJECT



	LETTERS AND SYMBOLS		F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IG			352	(2&3) R-RS-2	LAKE	23	21
				TC16	CONTRACT	NO. 6	2D69
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

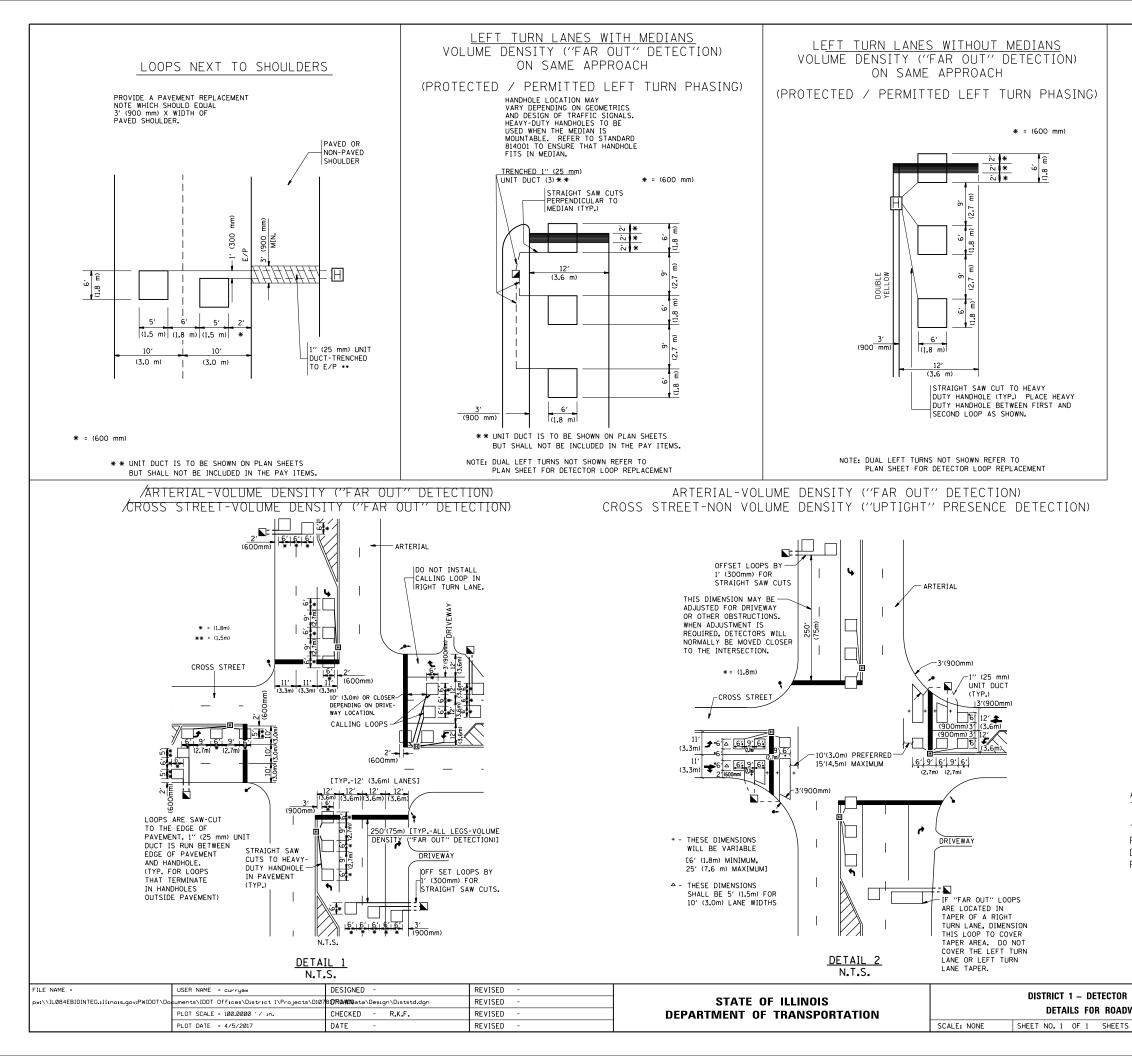


PLOT DATE = 4/5/2017

DATE

REVISED - C. JUCIUS 01-31-07

ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
м	N SIGN			(2&3) R-RS-2	LAKE	23	22	
14				TC-22	CONTRACT	NO. 6	2D69	
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



### NOTES:

### 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.

L	OOP INSTA	ALLATION	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
w	WAY RESURFACING			(2&3) R-RS-2	LAKE	23	23		
~~/				TS-07	CONTRACT	NO. 6	2D69		
	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					