08-22-14 SPECIAL LETTING 009

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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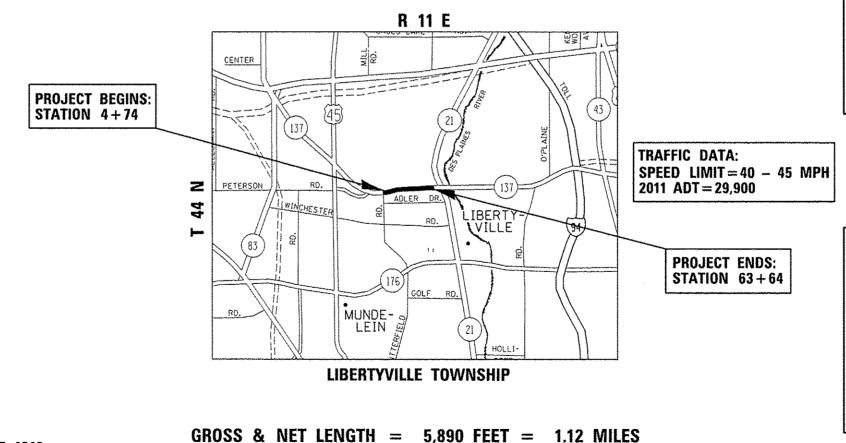
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PROJECT IS LOCATED IN THE VILLAGE OF LIBERTYVILLE

PROPOSED HIGHWAY PLANS

FAP 352: IL 137
BUTTERFIELD RD. TO IL 21 (MILWAUKEE AVE.)
SECTION 2R-1-RS-1
RESURFACING (3P)
LAKE COUNTY
C-91-465-11



PROJECT ENGINEER: DAN WILGREEN (847) 705-4240 PROJECT MANAGER: KEN ENG (847) 705-4247

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. 60P11

1-800-892-0123

SCHUTLER

ADAMS

CROWN

CASS

WENARD

SANCAMON

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2R-1-RS-1

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LAKE 24 1
ILLINOIS CONTRACT NO. 60P11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SMITTED JUNE 9, 20, 14

LOCATION OF SECTION INDICATED THUS: -

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

JULY 18 20 14

JOHN D. BOJOHNOOLI PE A

ENGINEER OF DESIGN AND ENVIRONMENT

TWO IS 20 14 Oner Osman, P.E. Kr

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

SHEET NO.	<u>DESCRIPTION</u>	STANDARD NO.	DESCRIPTION
1	COVER SHEET	000001-06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS. STATE STANDARDS & GENERAL NOTES	442201~ 03	CLASS C AND D PATCHES
3-4	SUMMARY OF QUANTITIES	604001 ~03	FRAME AND LIDS, TYPE 1
5-6	EXISTING AND PROPOSED TYPICAL SECTIONS	604091-0Z	FRAME AND GRATE, TYPE 24
7-9	ROADWAY AND PAVEMENT MARKING PLANS	606001- 0 \$	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
10-12	DETECTOR LOOP REPLACEMENT PLANS	701101-04	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm)
13	DETAILS FOR FRAME AND LIDS ADJUSTMENT WITH MILLING (BD-08)		FROM PAVEMENT EDGE
14	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	701421-06	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45MPH TO 55MPH
15	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	701426 -06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45MPH
16	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	701427-0Z	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION,
17	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)	701601-09	FOR SPEEDS < 40MPH URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
18	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	701602 -67	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
19	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
20	TRAFFIC CONTROL AND PROTECTION OF TURN BAYS	701901-03	TRAFFIC CONTROL DEVICES
21	(TO REMAIN OPEN TO TRAFFIC) (TC-)4) PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	886001-01	DETECTOR LOOP INSTALLATION
4.1	ITC-16)	886006- 0 1	TYPICAL LAYOUT FOR DETECTION LOOPS
22	ARTERIAL INFORMATION SIGNING (TC-22)		
23	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)	i e	
24	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)		

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC. TELEPHONE. AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LIBERTYVILLE.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS. THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISABILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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 MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SNOWN IN THE PLANS.

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (847) 715-8419 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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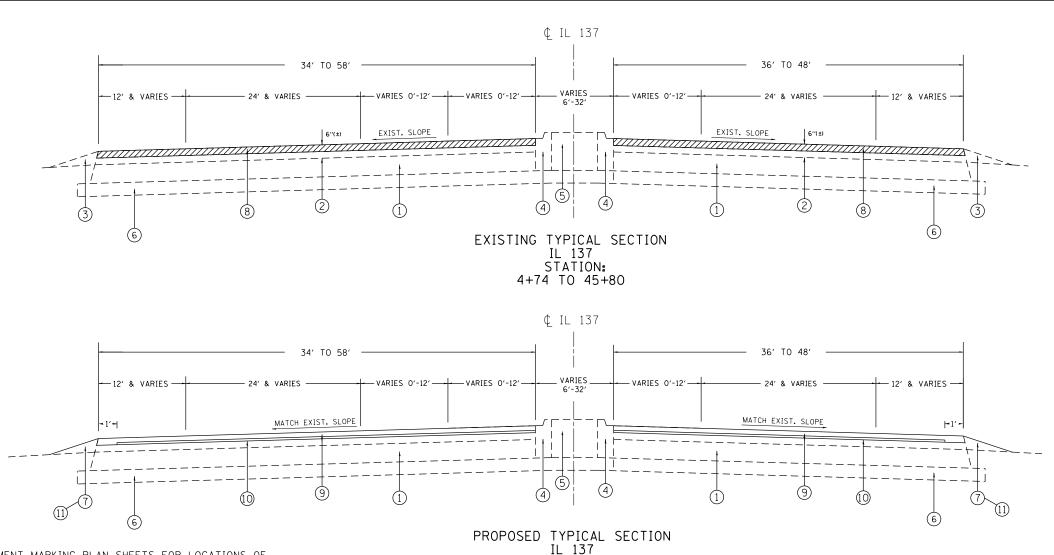
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352	2R-1-RS-1		LAKE	24	2
F.A.P. RTE.	SECTION	1	COUNTY	TOTAL	SHEE

			URBAN											URBAN				·····		
	SUMMARY OF QUANTITIES				C	CONSTRUCT	ION TYPE	CODE			SUMMAF	RY OF QUANTITIES				C	ONSTRUCTIO	N TYPE CO	DE	
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21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	155	155				ļ		60262700	INLETS TO BE	RECONSTRUCTED	EACH	1	1					**************************************
1		-					-													
25200110	SODDING. SALT TOLERANT	SQ YD	155	155						60300105	FRAMES AND G	RATES TO BE ADJUSTED	EACH	7	7					
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	84	84					designation of the state of the	60404950	FRAMES AND G	RATES, TYPE 24	EACH	7	7					
	FLANGEWAYS							and the same of th		-										,
				Control of the Contro	na pagana a magana a				and the same of th	60406100	FRAMES AND L	IDS, TYPE 1, CLOSED LID	EACH	3	3	,				
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	2234	2234	-															
	METHOD), IL-4.75, N50							Andrew Control of the	er venter er e	67000400	ENGINEER'S F	IELO OFFICE, TYPE A	CAL MO	6	6					
	ANGENIATIVE VICT CIDIO	F.4011	1	1	The state of the s			navana	***************************************	67100100	MOBILIZATION		L SUM	And a second sec						
40600895	CONSTRUCTING TEST STRIP	EACH	4	1	the state of the s			4244				-							and the state of t	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YO	242	242						70100310	TRAFFIC CONT	ROL AND PROTECTION.	L SUM	1	1					
	JOINT										STANDARD 701	421								
									mitrothic to the state of the s											
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE	TON	5489	5489			***************************************	The second secon		70102630	TRAFFIC CONT	ROL AND PROTECTION.	L SUM	t t	Į.					
	COURSE, MIX "F", N90				Attendance of the state of the	Annual Principal	And the state of t	Tomanian de la companya de la compan	ann anna sa	elektrikar personalar disertingan disertin	STANDARD 701	601	and the second s							
42001300	PROTECTIVE COAT	SQ YD	207	207		4	THE THE PARTY OF T		and the same of th	70102632	TRAFFIC CONT	ROL AND PROTECTION.	L SUM	1	ı					
					***		and the same of th	The state of the s			STANDARD 701	602								
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	55447	55447			and the state of t	-												
						4				70102635	TRAFFIC CONT	ROL AND PROTECTION.	L SUM	1	1		-			
44201789	CLASS D PATCHES. TYPE II. 12 INCH	SQ YD	768	768						***************************************	STANDARD 701	701								
44201794	CLASS D PATCHES. TYPE III, 12 INCH	SQ YD	400	400					The state of the s	70300100	SHORT TERM P	VAVEMENT MARKING	FOOT	10164	10164		41444			
44201734	GLASS D FAIGHES. FITE TEX, 12 INC.	34 15	100				of all the second secon													-
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	125	125		coformations to make the state of the state			***************************************	70300210	TEMPORARY PA	VEMENT MARKING LETTERS AND	SQ FT	1076	1076					
							The state of the s				SYMBOLS									00 000
48102100	AGGRECATE WEDGE SHOULDER, TYPE B	TON	402	402			Manager I and Ma		man were an adversarial and ad					0.75.7	27515					~~~
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1		1		-	THE RESIDENCE OF THE PARTY OF T	70300220	TEMPORARY PA	VEMENT MARKING - LINE 4"	FOOT	27515	27515	***************************************	Annual			
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	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3679	3679						78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	537	537				
				Assessment of the control of the con								REMOVAL							
	70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	336	336								describer of the first f						
	- Christian Assessment										* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1729	1729				
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	3008	3008						***************************************		and the second s						
	and the second s		,								X2020110	GRADING AND SHAPING SHOULDERS	UNIT	201	201				
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	331	331		8-1												
			·····								40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	37274	37274				
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	3388	3388						An and a second								
	***************************************										X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	100	100				
*	78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	1076	1076						W5070710		~						
		LETTERS AND SYMBOLS					and the second s				x6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	5	5				
	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	27515	27515		****				To be a second of the second o	(SPECIAL)					4		
*	18000200	THE INDICES TO THE PROPERTY MOUNTING . LINE 4		21313							Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	930	930				
											and the state of t	REMOVAL AND REPLACEMENT	_						
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 611	FOOT	3979	3979						**************************************								
			 	manufacture and manufacture an							Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	8	8		A company of the comp	and the second s	-
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*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 3"	FOOT	336	336						20030850	TEMPORARY INFORMATION SIGNING	SO FT	52	52				
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*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12 "	FOOT	3008	3008	1					THE PERSON NAMED IN COLUMN TO THE PE								
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*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24	FOOT	331	331									-			***************************************		
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*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	590	590	arker three forms to the second secon									-	· .			
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STATION:

4+74 TO 45+80

- NOTES:
- SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF LEFT TURN LANES AND PAINTED MEDIANS.
- 2. MILLING TO BE DONE PRIOR TO PATCHING. (SEE 'PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT' DETAIL).
- 3. COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DONE BETWEEN STATIONS: 5+35 TO 8+60, 13+49 TO 14+22, 15+16 TO 19+62 & 26+60 TO 28+85 (RIGHT SIDE ONLY)

LEGEND

- (1) EXIST. PCC BASE COURSE, 8"(±)
- 2 EXIST. HOT-MIX ASPHALT SURFACE (BEFORE MILLING), 6"(±)
- (3) EXIST. AGGREGATE SHOULDER TYPE B
- (4) EXIST. CONCRETE CURB AND GUTTER TYPE M-6.06
- (5) EXIST. STABILIZED MEDIAN 12"(±)
- 6 EXIST. HOT-MIX ASPHALT SUBBASE MATERIAL 4"(±)
- 7 PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- 8 PROP. HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
- PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
 MIX "F", N90, 1 3/4"
- 10 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- (1) PROP. GRADING AND SHAPING SHOULDERS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

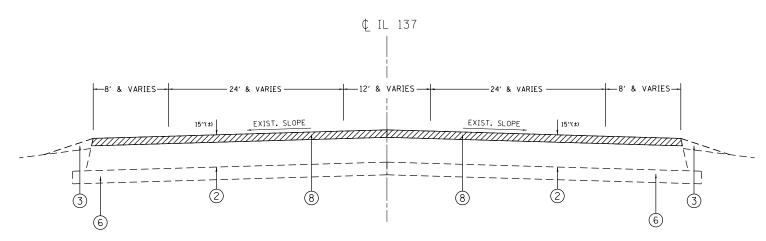
	MIXTURE TYPE	AIR VOIDS (%) @ NDES	QMP				
ROADWAY	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL-9.5MM), 1¾4"	4% ⊚ 90 GYR	QCP				
RUADWAT	POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"	3.5% @ 50 GYR	QCP				
PATCHES	CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR	QC/QA				
QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)							

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

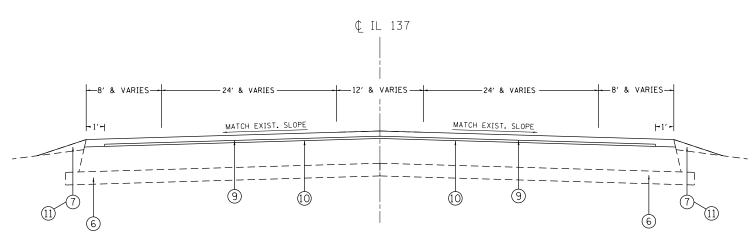
THE "AC TYPE" FOR ALL POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22 AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (OMP) COLUMN IDENTIFIES THE TYPE OF SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

FILE N	AME =	USER NAME = phillipsdo	DESIGNED -	REVISED -		II 13	37 (BUTTERFIELD RD. TO IL 21 (MILWAUKEE AVE.))	F.A.F RTF.	· .	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		EXISTING AND PROPOSED TYPICAL SECTIONS				CONTRACT	T NO.	60P11
		PLOT DATE = 6/9/2014	DATE -	REVISED -		SCALE:	SHEET 5 OF 24 SHEETS STA. TO STA.			ILLINOIS FED. AI	PROJECT		



EXISTING TYPICAL SECTION IL 137 STATION: 45+80 TO 63+64



PROPOSED TYPICAL SECTION IL 137 STATION: 45+80 TO 63+64

LEGEND

- (1) EXIST. PCC BASE COURSE, 8"(±)
- (2) EXIST. HOT-MIX ASPHALT PAVEMENT (BEFORE MILLING), 15"(±)
- (3) EXIST. AGGREGATE SHOULDER TYPE B
- (4) EXIST. CONCRETE CURB AND GUTTER TYPE M-6.06
- (5) EXIST. STABILIZED MEDIAN 12"(±)
- 6 EXIST. HOT-MIX ASPHALT SUBBASE MATERIAL 4"(±)
- 7 PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- 8 PROP. HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"
- PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
 MIX "F", N90, 1 3/4"
- 10 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- 11) PROP. GRADING AND SHAPING SHOULDERS

NOTES:

SCALE:

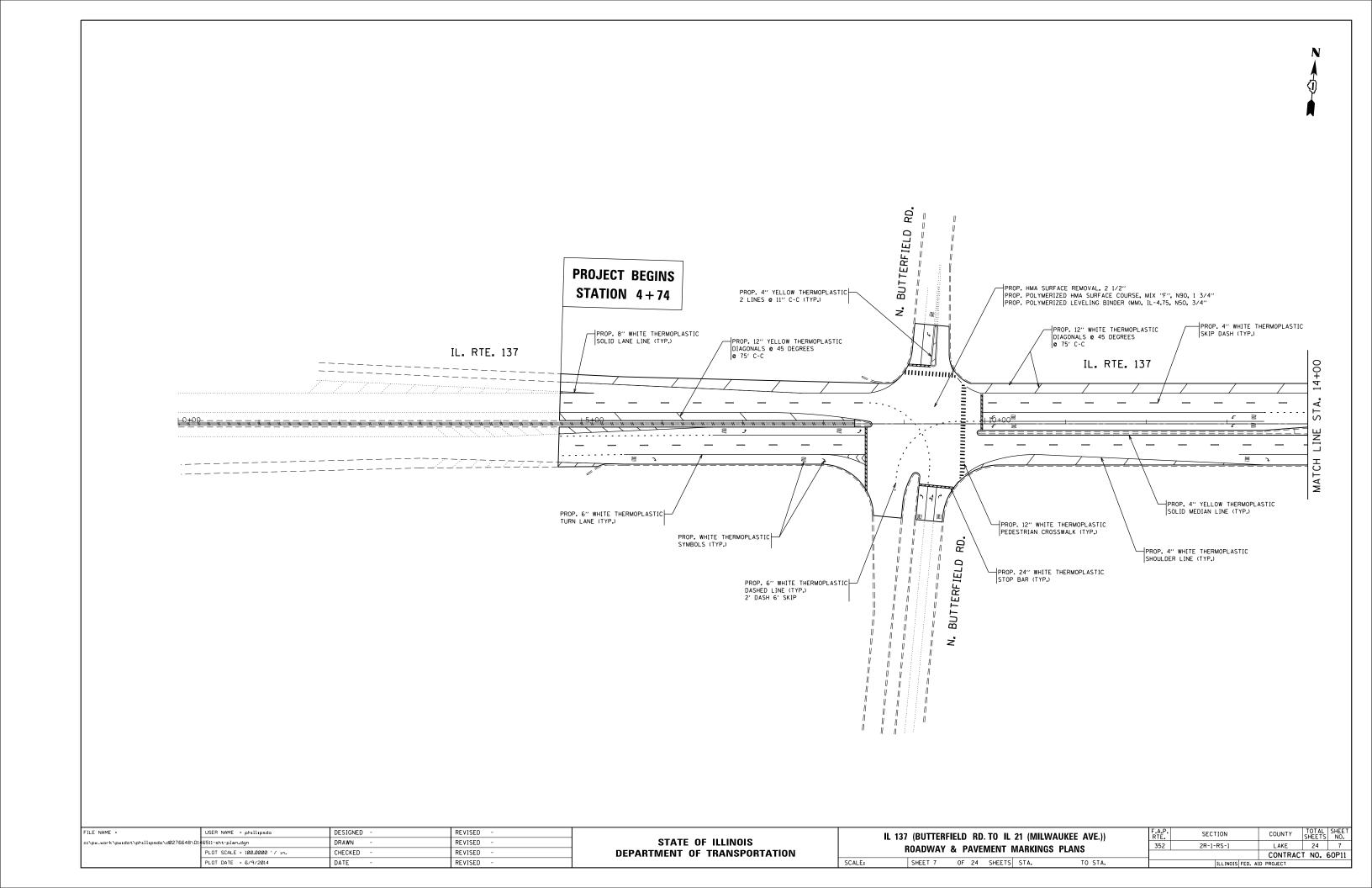
- 1. SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF LEFT TURN LANES AND PAINTED MEDIANS.
- 2. MILLING TO BE DONE PRIOR TO PATCHING. (SEE 'PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT' DETAIL).

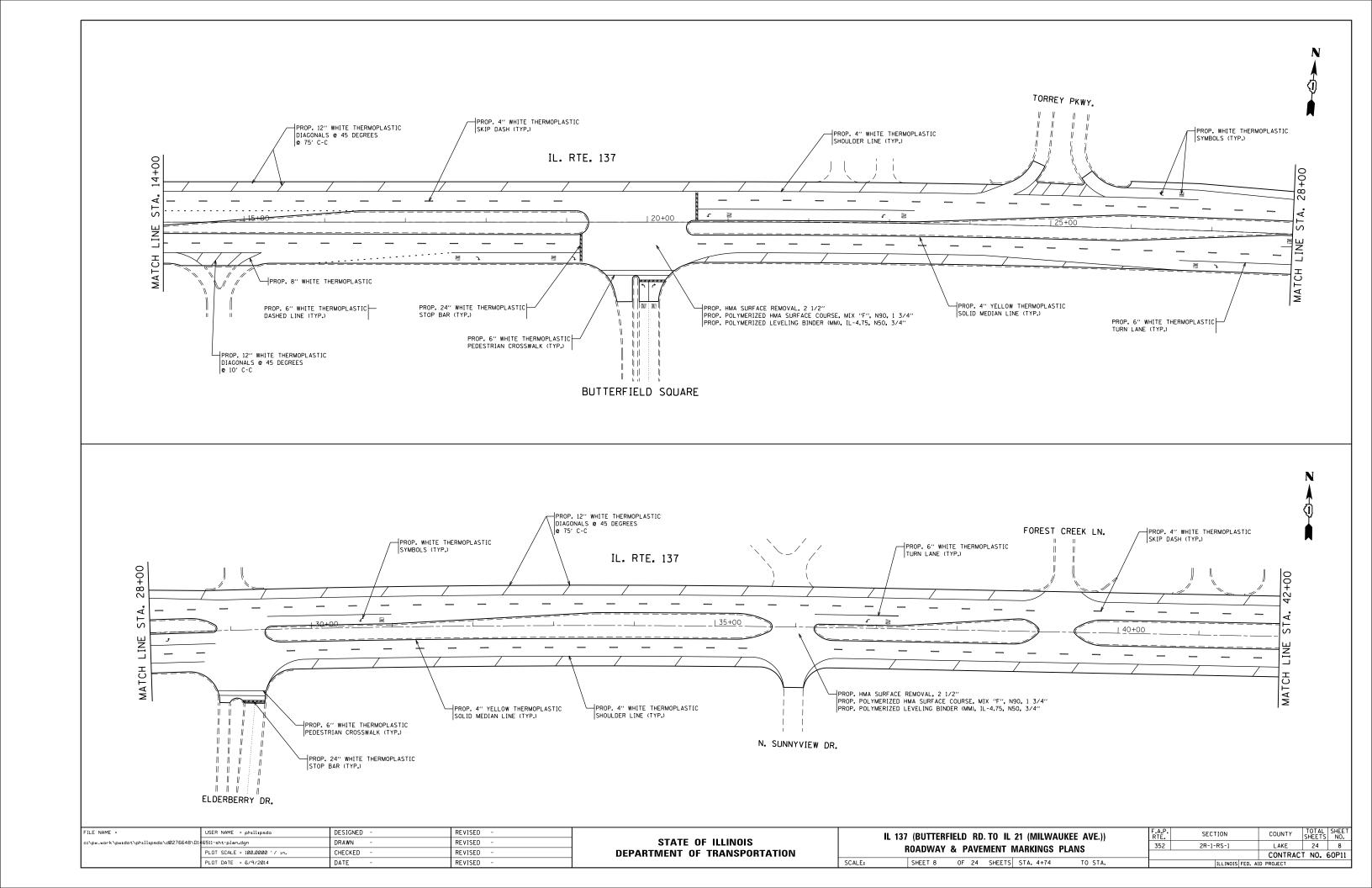
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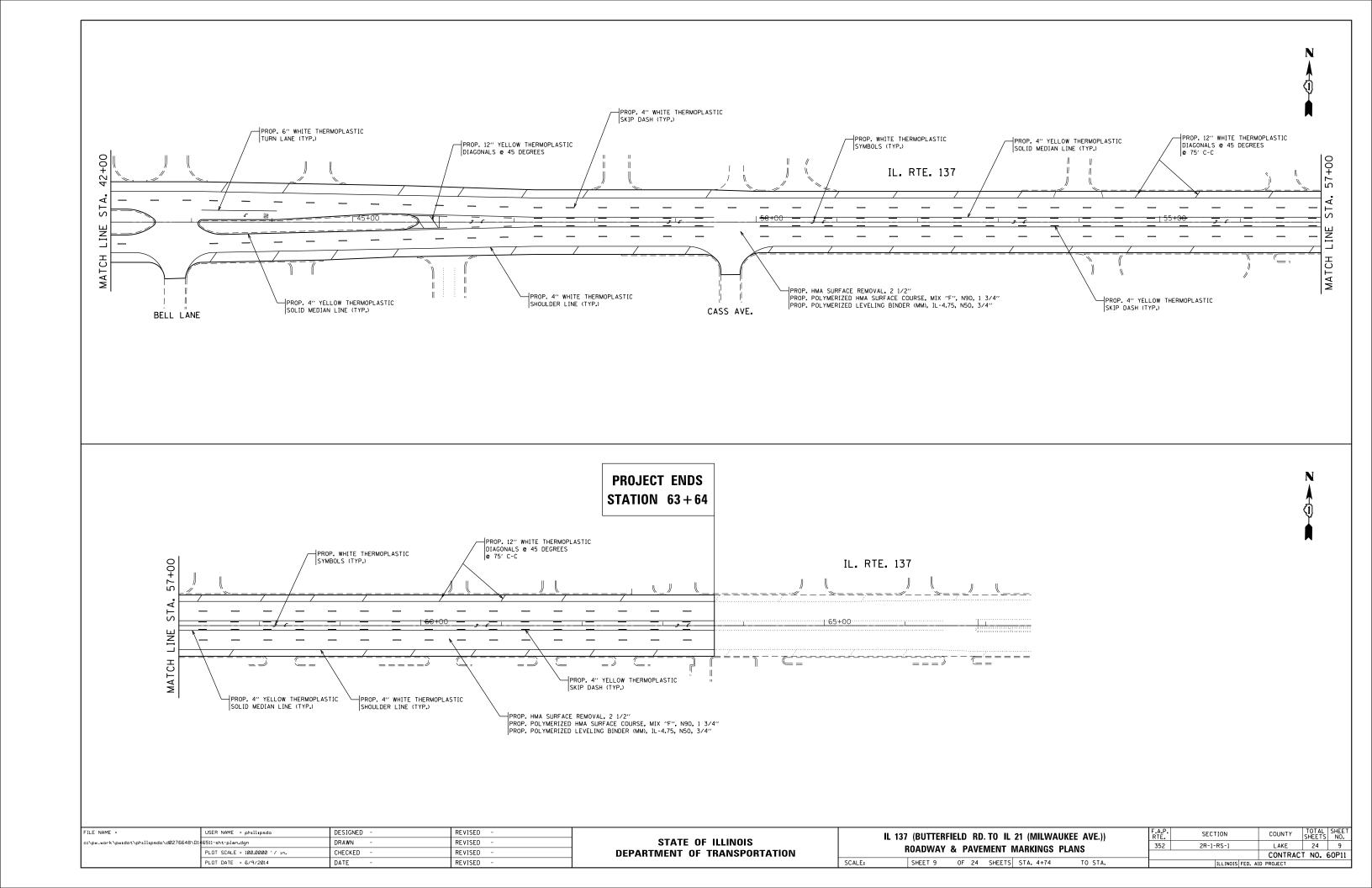
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

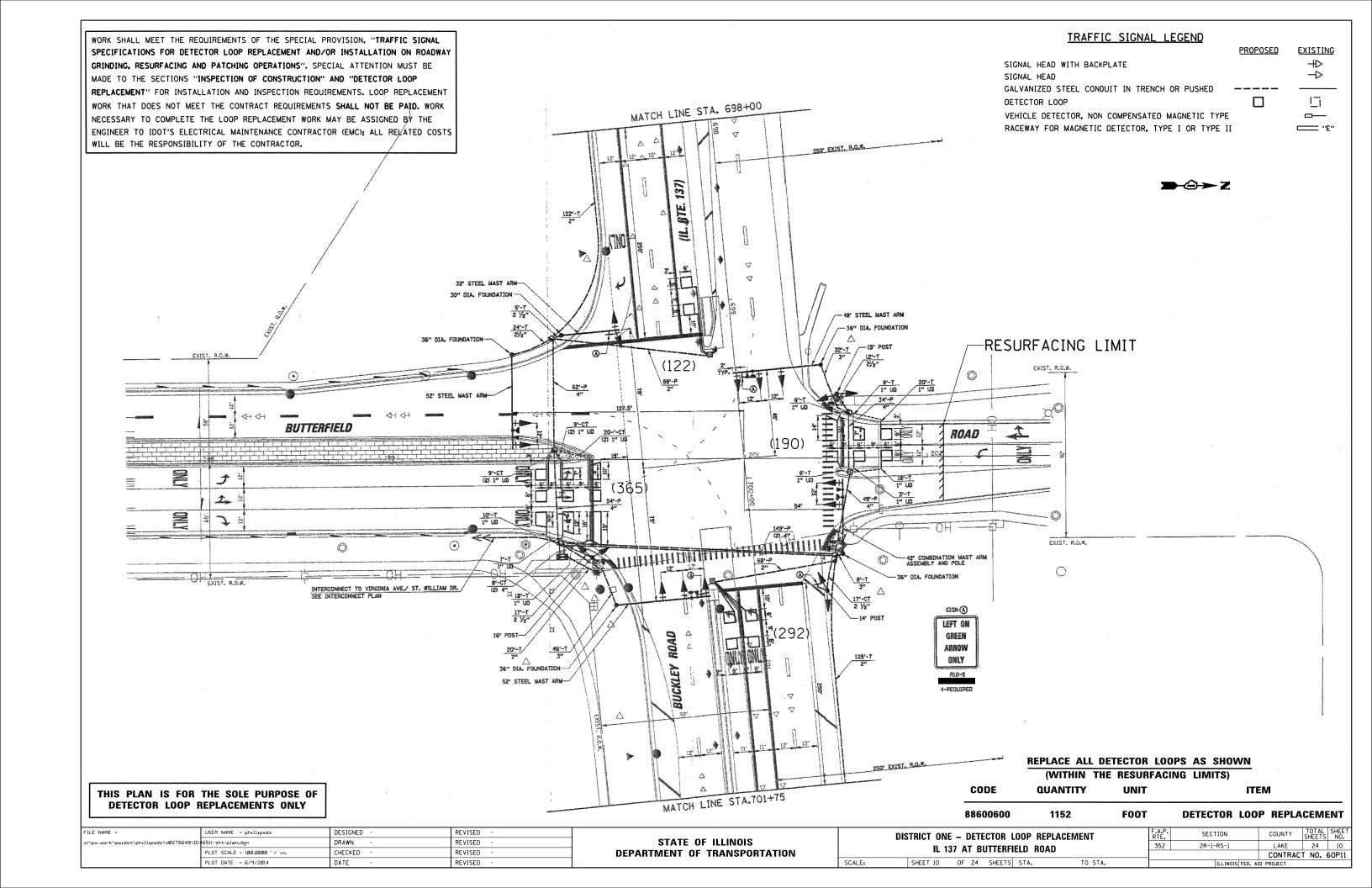
IL 137	(BUTTE	RFIELD	RD	. TO IL	21 (MIL	WAUKEE AVE.))
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F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
352	2R-1-RS-1		LAKE	24	6
		CONTRAC	T NO.	60P11	
	ILLINOIS	FED. A	D PROJECT		

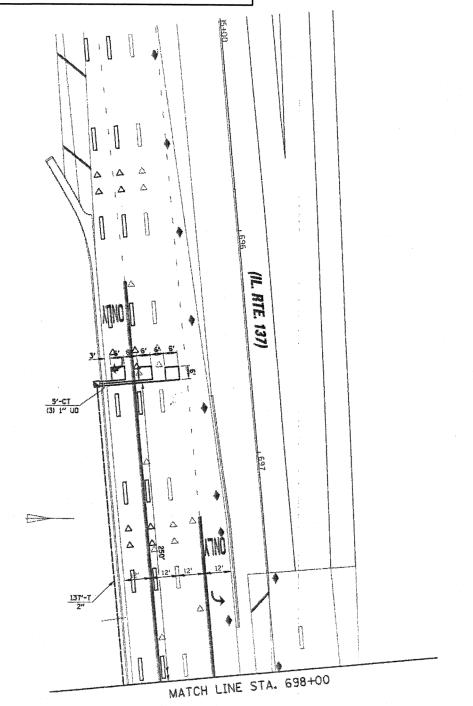








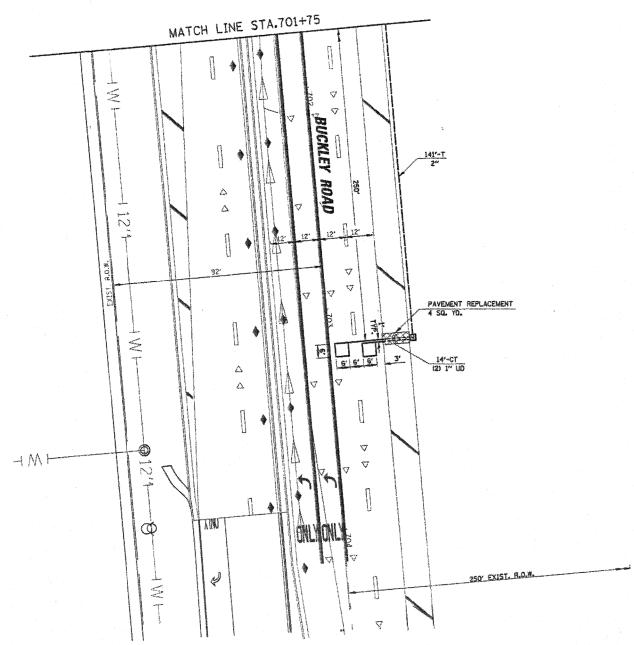
WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II

>-�-> Z

── "E"



(WITHIN THE RESURFACING LIMITS)

CODE QUANTITY UNIT ITEM

88600600 1152 FOOT DETECTOR LOOP REPLACEMENT

FILE NAME = USER NAME = philipsdo DESIGNED - REVISED ct\pw.work\pwidot\philipsdo\d0276648\D1 6511-sht-plon.dgn DRAWN - REVISED PLOT SCALE = 100.0000 '/ in. CHECKED - REVISED PLOT DATE = 6/9/2014 DATE - REVISED -

THIS PLAN IS FOR THE SOLE PURPOSE OF

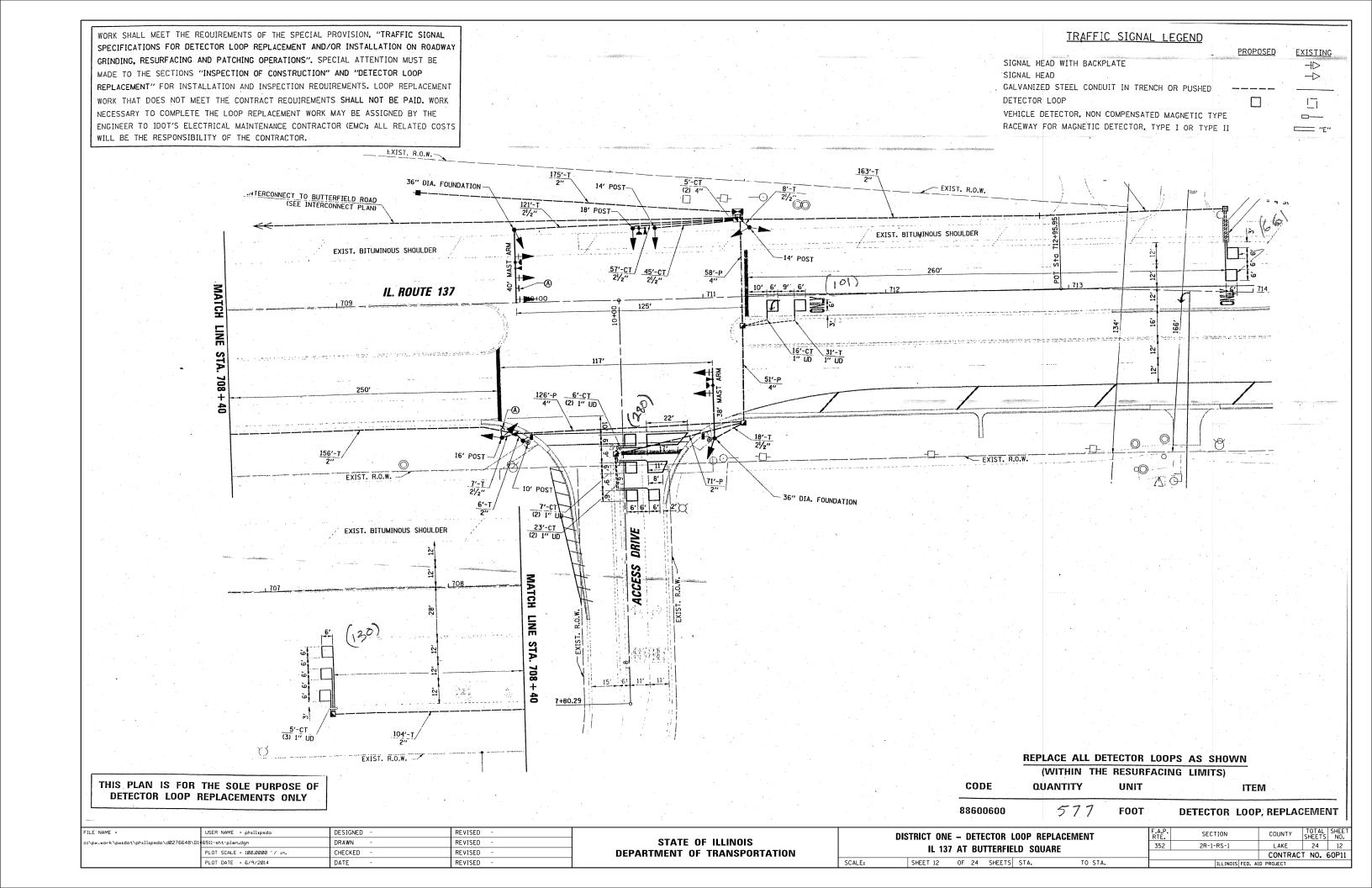
DETECTOR LOOP REPLACEMENTS ONLY

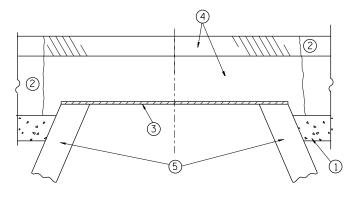
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

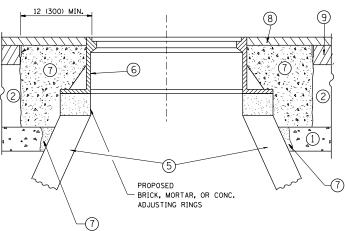
DISTRICT ONE - DETECTOR LOOP REPLACEMENT
IL 137 AT BUTTERFIELD ROAD

SHEET 11 OF 24 SHEETS STA. TO STA.

SCALE:







EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

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.

SCALE: NONE

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 $1\frac{1}{2}$ (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

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- (7) CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE

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

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.

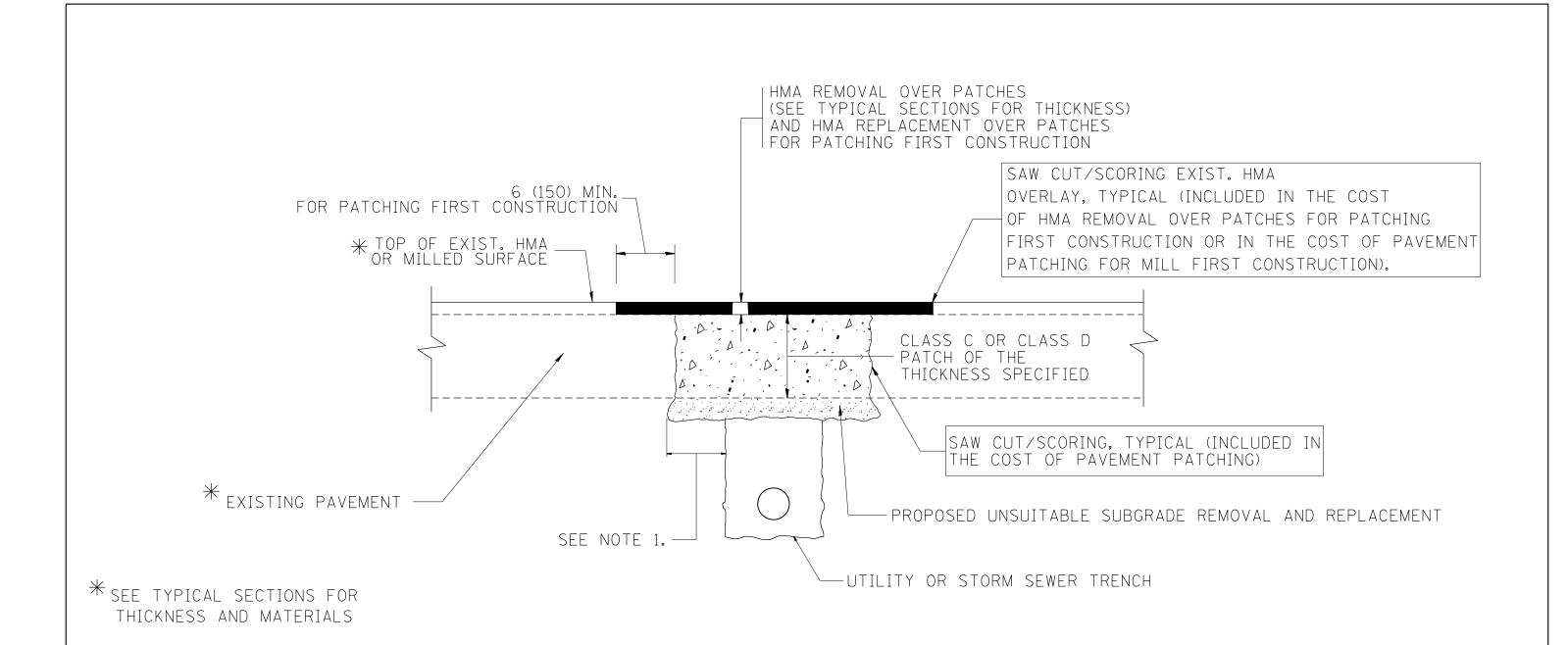
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = phillipsdo	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 6/9/2014	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DETAILS FOR	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.			
FRAMES AND LIDS ADJUSTMENT WITH MILLING	352	2R-1-RS-1	LAKE	24	13	
TRAINES AND LIDS ADJUSTINENT WITH WILLING	BD600-03 (BD-8) CONTRACT NO.					
SHEET NO. 1 OF 1 SHEETS STA. TO STA.	EED D	DAD DIST NO 1 THE INDISCRED AT	D DDO IECT			



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

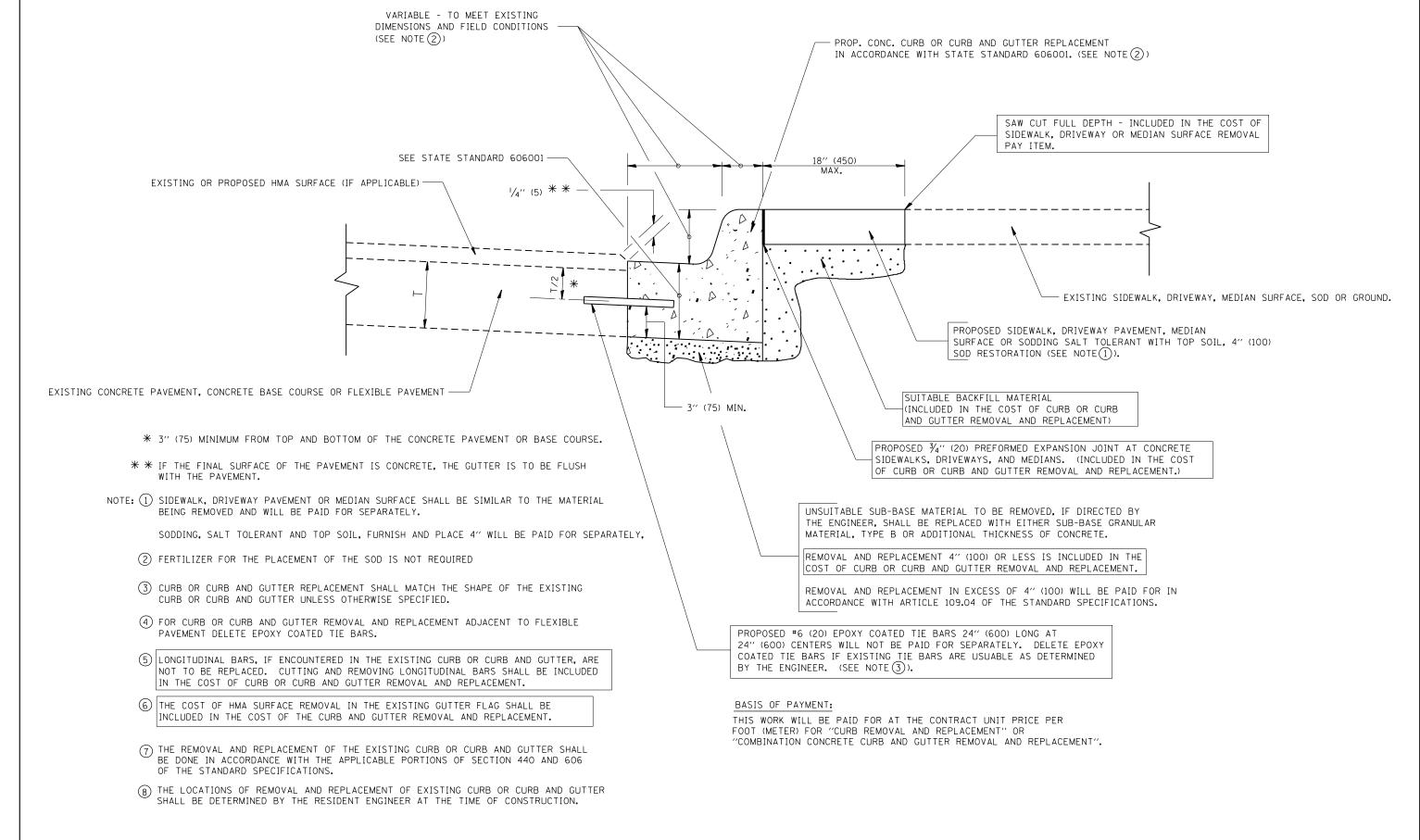
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 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 PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

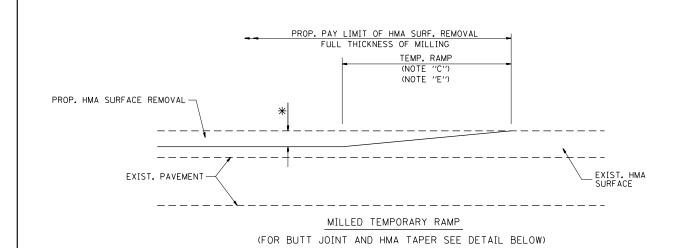
FILE NAME =	USER NAME = phillipsdo	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.P.	SECTION	COUNTY	TOTAL :	SHEET NO.
c:\pw_work\pwidot\phillipsdo\d0276648\Di	tStd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		352	2R-1-RS-1	LAKE	24	14
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT		-04 (BD-22)	CONTRACT	NO. E	OP11
	PLOT DATE = 6/9/2014	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 FED. AU	PROJECT		



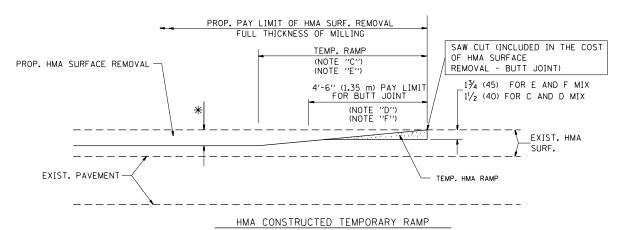
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

	FILE NAME =	USER NAME = phillipsdo	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96			CURB OR CURB AND GUTTER	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	c:\pw_work\pwidot\phillipsdo\d0276648\Dis	tStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS			352	2R-1-RS-1	LAKE	24	15
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT			BD600-06 (BD-24) CONTRAC	T NO.	60P11
		PLOT DATE = 6/9/2014	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	ROAD DIST. NO. 1 ILLINO	IS FED. AID PROJECT		
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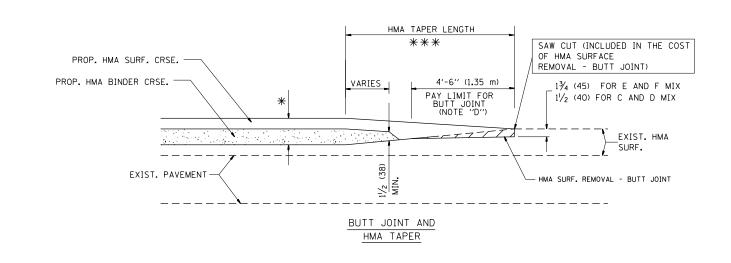
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = USER NAME = philipsdo DESIGNED - M. DE YONG REVISED - R. SHAH 10-25-94

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tStd.dgn DRAWN - REVISED - A. ABBAS 03-21-97

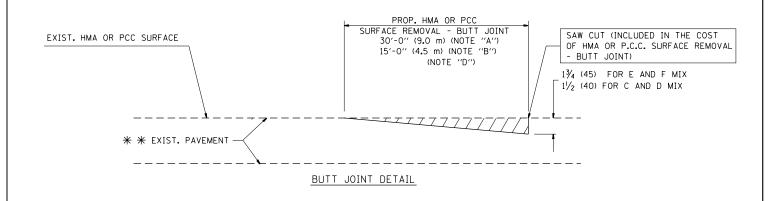
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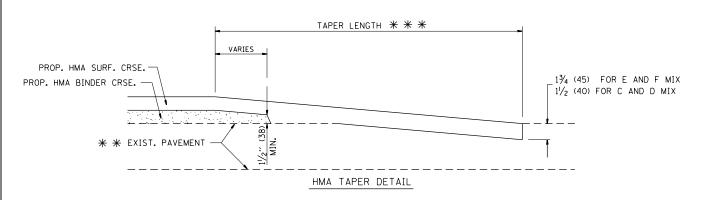
PLOT DATE = 6/9/2014 DATE - 06-13-90 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

OTHERWISE SHOWN.





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

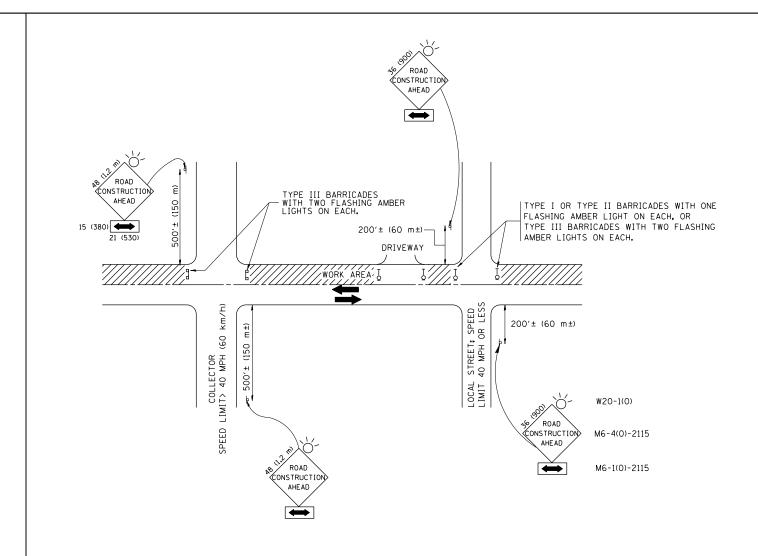
* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- : MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOTT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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 ENGINEER:
- 0) ONE ROAD CONSTRUCTION AHEAD SIGN $36 \times 36 \ (900 \times 900)$ WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h)
 AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1,2 m x 1,2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROLLTE.
- 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.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

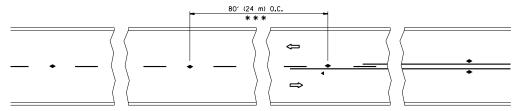
All dimensions are in millimeters (inches) unless otherwise shown.

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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 6/9/2014	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

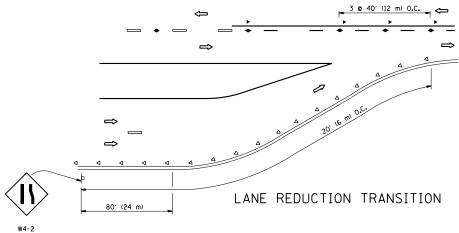
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DEPARTMENT	0F	TRANSPORTATION

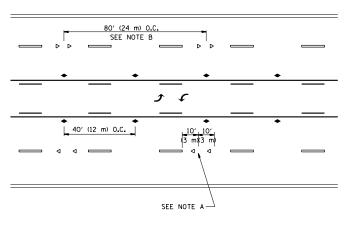
	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS					SECTION	COUNTY		
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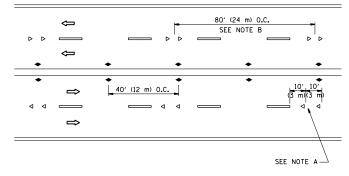
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

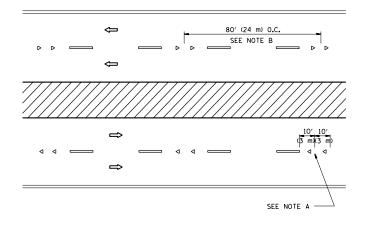




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

---- YELLOW STRIPE

WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

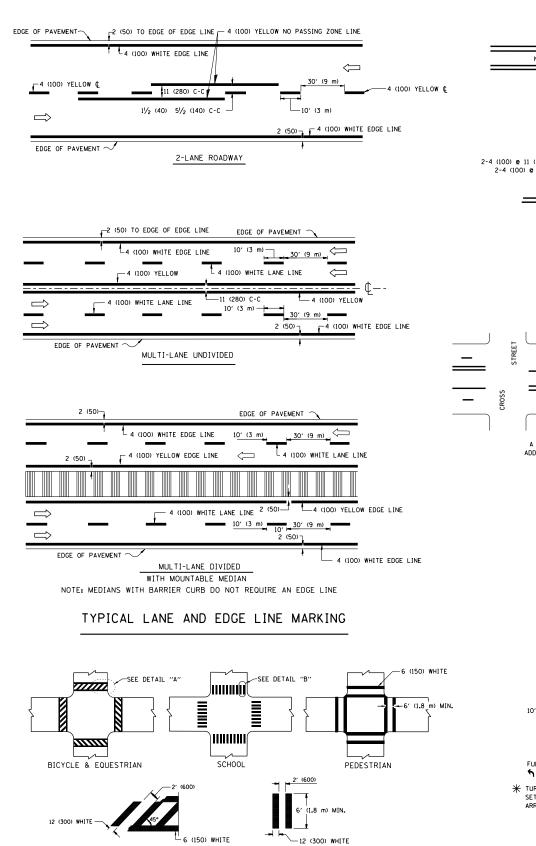
DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

LEFT TURN

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

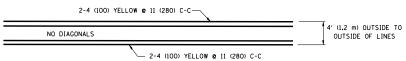
FILE NAME =	USER NAME = phillipsdo	DESIGNED -	REVISED - T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS		RTE.	SECTION	COUNTY	SHEETS	NO.
c:\pw_work\pwidot\phillipsdo\d0276648\Dis	tStd.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS	DAIOTE		DEGLOTANT)	352	2R-1-RS-1	LAKE	24	18
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		RESISTANT)		TC-11	CONTRACT	T NO. 6	60P11
	PLOT DATE = 6/9/2014	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS F	ED. AID PROJECT		



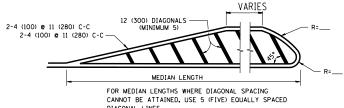
DETAIL "A"

DETAIL "B"

TYPICAL CROSSWALK MARKING

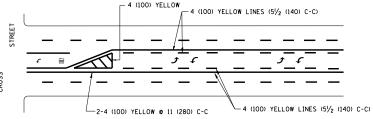


4' (1.2 m) WIDE MEDIANS ONLY

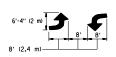


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

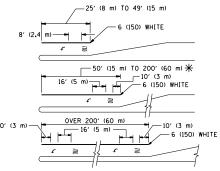


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

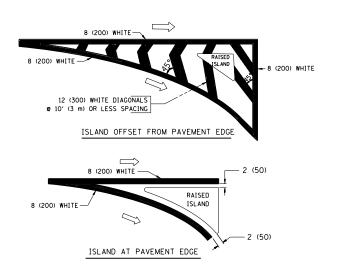


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400" (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF APPROV - "ONLY"

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TURE OF MIRWING				DELENIE A DELUBYS
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	WHITE	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
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 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))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) © 45°	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))

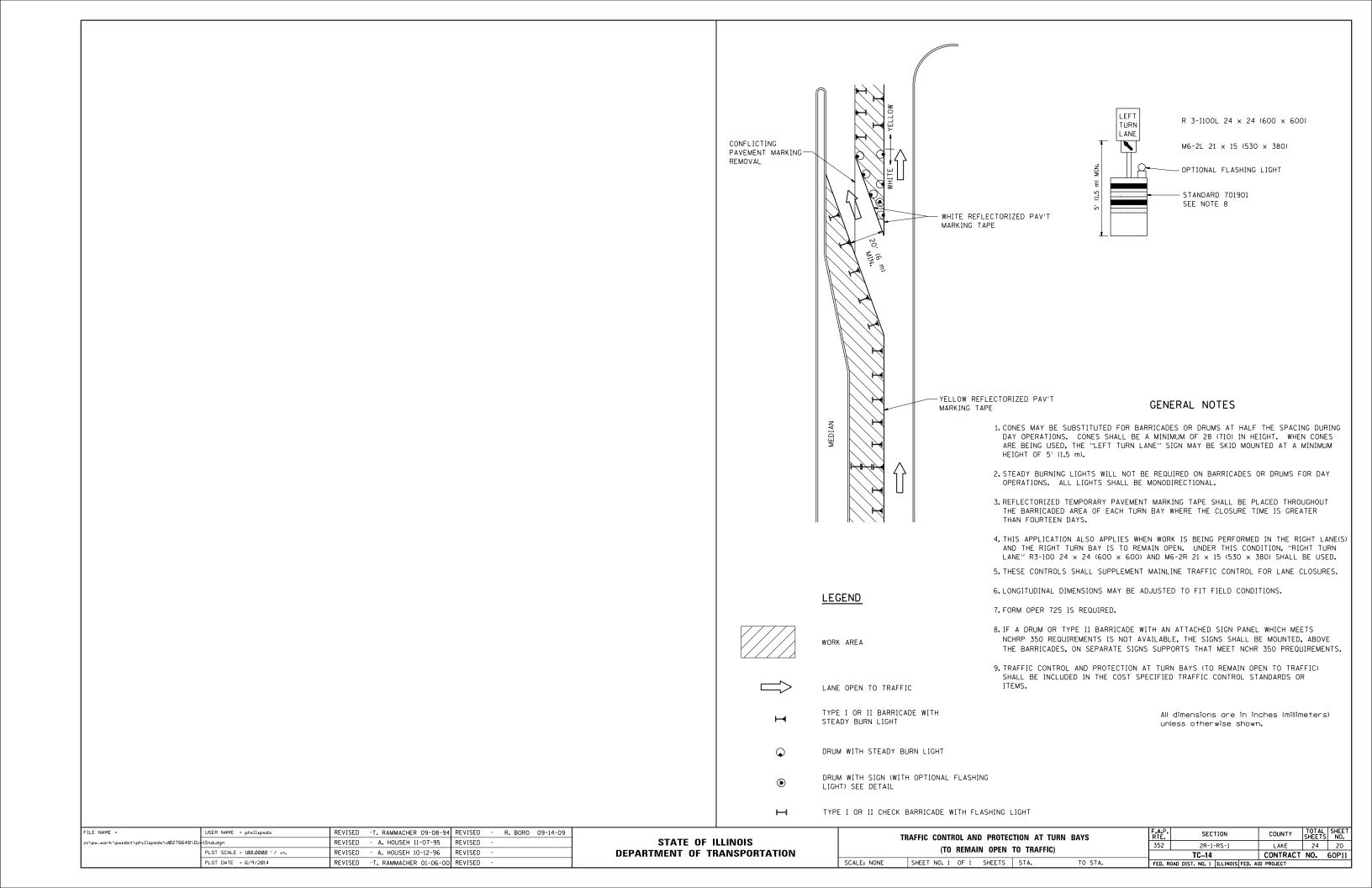
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

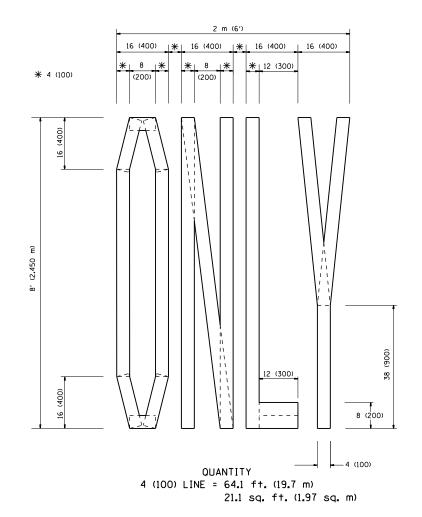
All dimensions are in inches (millimeters) unless otherwise shown.

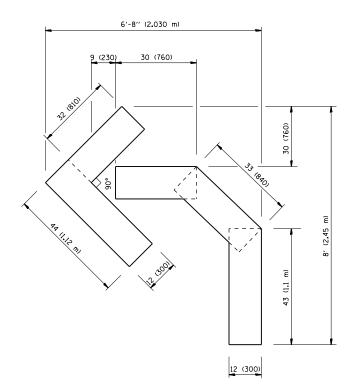
- 1	FILE NAME =	USER NAME = phillipsdo	DESIGNED	-	EVERS	REVISED	-T. RAMMACHER	10-27-94
١	c:\pw_work\pwidot\phillipsdo\d0276648\Dis	tStd.dgn	DRAWN	-		REVISED	-C. JUCIUS	09-09-09
١		PLOT SCALE = 100.0000 '/ in.	CHECKED	-		REVISED	-	
-		PLOT DATE = 6/9/2014	DATE	-	03-19-90	REVISED	-	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

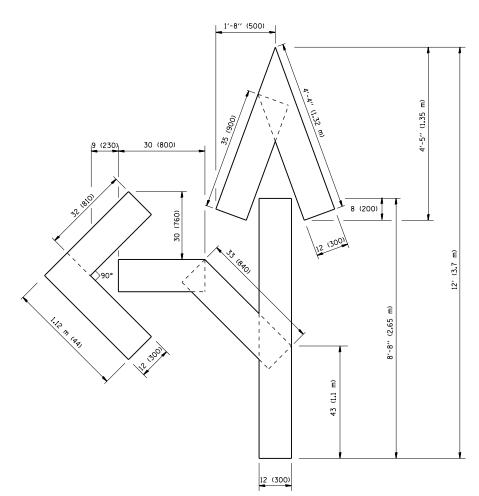
	DISTRICT ONE					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS		
	TYPICAL PAVEMENT MARKINGS						2R-1-RS-1	LAKE	24	19	
							TC-13 CONTRACT NO.				
	SCALE: NONE	SHEET NO. 1 OF 1 SH	EETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					







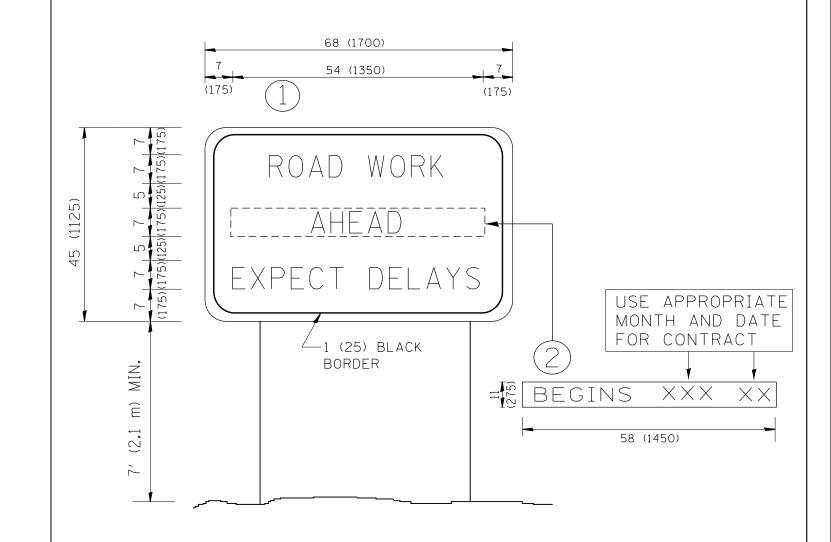
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

	FILE NAME =	USER NAME = phillipsdo	DESIGNED -	REVISED -T. RAMMACHER 06-05-96			PAVEMENT MARKING LETTER	S AND SYMBOLS	F.A.P.	SECTION	COUNTY	TOTAL SHEE	П.
-	c:\pw_work\pwidot\phillipsdo\d0276648\Dis	tStd.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS				352	2R-1-RS-1	LAKE	24 21	7
-		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION	FOR TRAFFIC STAGING				TC-16	CONTRACT	NO. 60P1	ī
- 1		PLOT DATE = 6/9/2014	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT		7



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

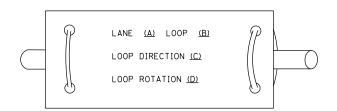
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = phillipsdo	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\phillipsdo\d0276648\D:	tStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		352 2R-1-RS-1	LAKE 24 22
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-9	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT NO. 60P11
	PLOT DATE = 6/9/2014	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT

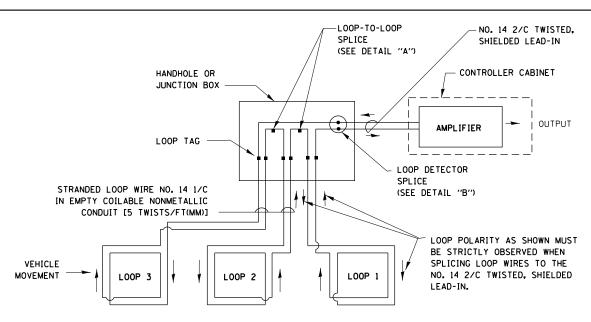
LOOP DETECTOR NOTES

- 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.

LOOP LEAD-IN CABLE TAG

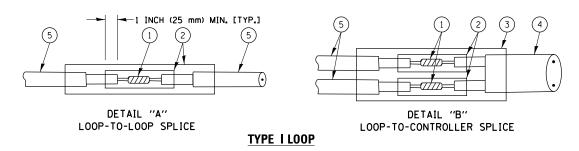


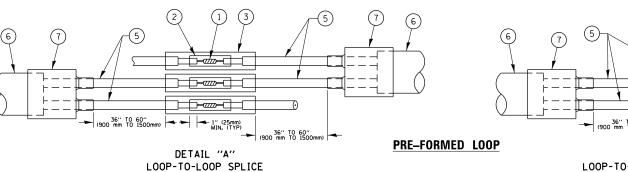
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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), IE 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.



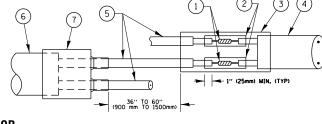




- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
- BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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	PLOT DATE = 6/9/2014	DATE	-	10-28-09	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE				F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS					352	2R-1-RS-1	LAKE	24	23
						TS-05	CONTRACT	NO.	60P11
	SHEET NO 2 OF 7	SHEETS	STA	TO STA	EED D	OAD DICT NO 1 THE INDIC FED A	ID DDO IECT		

LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER Ê (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNI DUCT-TRENCHED TO E/P •• (3.0 m) (3.0 m) * = (600 mm)* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD BI4001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN. TRENCHED 1" (25 mm) WEDIAN (TYP.) ** UNIT DUCT (3)** ** (600 mm) *** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

VOLUME DENSITY ("FAR OUT" DETECTION)

ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)

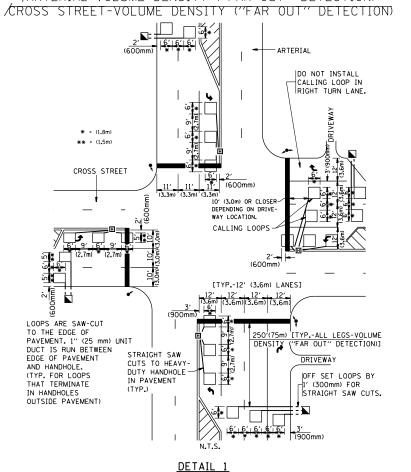
* = (600 mm)

* = (600 mm)

| STRAIGHT SAW CUT TO HEAVY DUTY HANDHOLE (TYP.) PLACE HEAVY DUTY HANDHOLE ETWEEN FIRST AND SECOND LOOP AS SHOWN.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



N.T.S.

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PLOT DATE = 6/9/2014

PLOT SCALE = 100.0000 '/ in.

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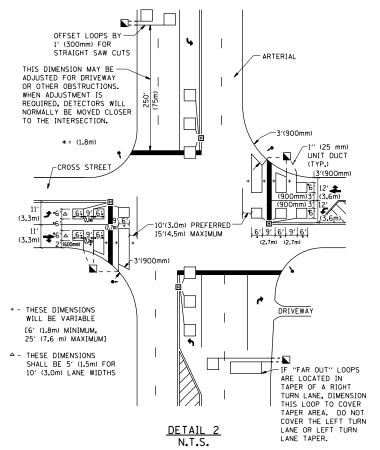
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SCALE: NONE

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIFLDED.
- * 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, MORE 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. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE 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 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.

JOTE.

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.

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STATE OF ILLINOIS
EPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION					F.A.P. RTE.	SECTION	COUNTY TOTA		OTAL SHEET HEETS NO.				
DETAILS FOR ROADWAY RESURFACING						352	2R-1-RS-1	LAKE	24	24			
	DETAILS FOR NUMBER RESURFACING							TS-07	CONTRACT	NO.	60P11		
	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						