04-26-13 LETTING ITEM 004

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT ENGINEER KARI SMITH (847) 705-4437 PROJECT MANAGER KEN ENG (847) 705-4247

CONTRACT NO. 60L62

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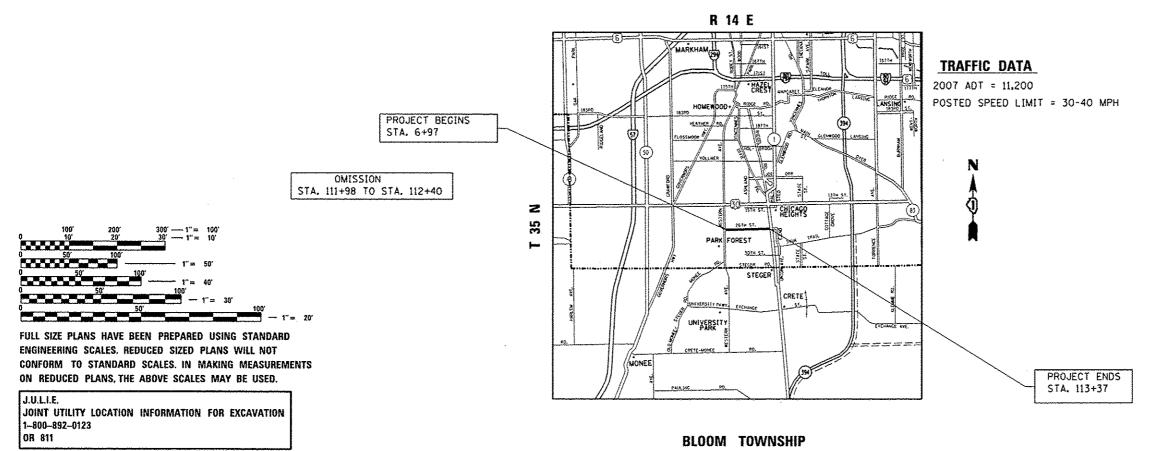
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THE IMPROVEMENT IS LOCATED IN THE VILLAGES OF PARK FOREST, SOUTH CHICAGO HEIGHTS AND THE CITY OF CHICAGO HEIGHTS

PROPOSED HIGHWAY PLANS

FAU 1633 /26TH STREET WESTERN AVENUE TO EAST END AVENUE **SECTION: 3365 A-RS-1** RESURFACING **COOK COUNTY** C-91-755-10

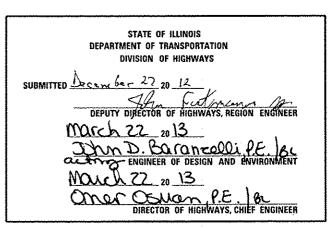


GROSS LENGTH OF IMPROVEMENT = 10,640 LINEAL FEET = 2.02 MILE NET LENGTH OF IMPROVEMENT = 10,598 LINEAL FEET = 2.01 MILE

3365 A-RS-1 COOK

0 -91-755-10





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

LIST OF STATE STANDARDS

SHEET	NO.	<u>DESCRIPTION</u> STA	NDARD NO.	DESCRIPTION
		:		
	1	COVER SHEET		
	2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES	000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
	3-4	SUMMARY OF QUANTITIES	442201 - <i>03</i>	CLASS C AND D PATCHES
	· 5	TYPICAL SECTIONS PLAN	604001 -<i>03</i>	FRAME AND LIDS, TYPE 1
	6-9	ROADWAY & PAVEMENT MARKINGS PLANS	701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
	10-1	DETECTOR LOOP REPLACEMENT PLANS	701311 - 03	LANE CLOSURE, 2L. 2W MOVING OPERATIONS - DAY ONLY
	12	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	701427 <i>-01</i>	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEED 440 MPH
	13	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	701606 <i>-08</i>	LANE CLOSURE, MULTILANE, 2-W, WITH MOUNTABLE MEDIAN
÷	14	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	701701- <i>08</i>	URBAN LANE CLOSURE, MULTILANE INTERSECTION
	15	BUTT JOINT AND HMA TAPER DETAILS	701901-02	TRAFFIC CONTROL DEVICES
	16	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		
	17	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		
-	. 18	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		
-	19	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		
	20	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING		
	21	ARTERIAL ROAD INFORMATION SIGN		
	. 55	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING		

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 IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE VILLAGE OF PARK FOREST AND THE CITY OF CHICAGO HEIGHTS

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (45 KM/H) OR LESS AND I INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (45 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER. A MAXIMUM CRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS AREA TRAFFIC FIELD TECHNICIAN AT (708) 597-9800 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE RESIDENT ENGINEER SHALL VERIFY ALL EXISTING PAVEMENT MARKINGS BEFORE MILLING

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

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

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS

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

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE 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.

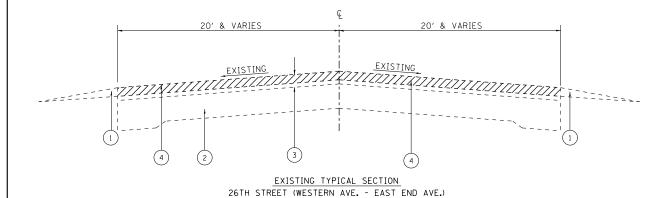
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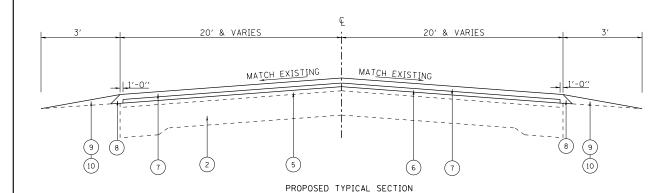
STATE	OF	ILLINOIS	
DEPARTMENT (OF T	FRANSPORTATION	

INDEX OF SHEETS, LIST OF STATE STANDARDS & GENERAL NOTES	F.A.U RTE.	SECTION	COUNTY	TOT
26TH ST. (WESTERN AVE. – EAST END AVE.)	1633	3365 A-RS-1	COOK	22
			CONTRACT	NO.
SCALE: 1"=50" SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	AD DIST, NO. ILLINOIS FED. A	TOBLORG GI	

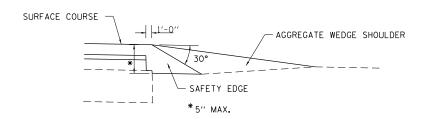
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	SUMMARY OF QUANTITIES		100%		CONST	RUCTION TY	YPE CODE				SUMMARY	OF QUANTITIES		STATE					Table Control of the	
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	D. ACC. 411	SO YD	50	50						44201807	CLASS D PATCHES	S. TYPE III. 13 INCH	SO YD	325	325					
101615	TOPSOIL FURNISH AND PLACE. 4"	30 10																		
200110	SODDING, SALT TOLERANT	SO YD	50	50						44201809	CLASS D PATCHES	S. TYPE IV. 13 INCH	SO YD	875	875					
											1000001TC WC 96	E SHOULDER, TYPE B	TON	775	775					
600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	29	29		And the state of t				48102100	AGGREGATE MEDO	ב אויטנטבוי, יייכ ט					:			
		TON	146	146					- Andrews - Andr	60300305	FRAMES AND LID	S TO BE ADJUSTED	EACH	13	13					
0600300	ACCREGATE (PRIME COAT)	104																		
0600400	MIXTURE FOR CRACKS, JOINTS.	TON	55	55						60404940	FRAMES AND GRA	ATES, TYPE 23	EACH	2	2					
	AND FLANGEWAYS												CAL NO	6	6					
										67000400	ENGINEER'S FIE	ELD OFFICE, TYPE A	CAL MO	*	U					
0600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	1503	1503						67100100	MOBILIZATION		L SUM	1		e de la companya de l		and the state of t		
	METHOD), IL-4.75, N50					- Annual Control of the Control of t														
0600895	CONSTRUCTING TEST STRIP	EACH	1	1						70102625	TRAFFIC CONTRO	OL AND PROTECTION.	L SUM	1	-	1				
				And the second s		App.					STANDARD 70160	06							-	
0600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	335	335	and the second s			The state of the s					1 (11)	1	1					· ·
	JOINT						At and a second			70102635	STANDARD 7017	OL AND PROTECTION.	L SUM	•	*					-
											STANDAND 1011									
10603335	HOT-MIX ASPHALT SURFACE COURSE.	TON	3060	3060						70300100	SHORT-TERM PA	VEMENT MARKING	FOOT	4900	4900		·			
	MIX "D", N50	1									-									
42001300	PROTECTIVE COAT	SO YO	12	12				***************************************		70300210	<u> </u>		SO FT	426.3	426.3					
								Andrew			- LETTERS AND) SYMBOLS								-
14000158	HOT-MIX ASPHALT SURFACE REMOVAL. 2-1/4"	SO YD	36430	36430						70300220	TEMPORARY PAV	VEMENT MARKING	FOOT	15450	15450					
-					-		NAME OF THE PROPERTY OF THE PR	-		10,500220	- LINE 4"									
44000300	CURB REMOVAL	FOOT	127	127			acque de la companya													
-4000 300	Series (Series)	-								70300240	TEMPORARY PAY	VEMENT MARKING	FOOT	1620	1620					
44201803	CLASS D PATCHES, TYPE 11, 13 INCH	SO YD	400	400							- LINE 6"				_					-
<u>~</u>									····	3						F.A.U RTE.	SEC	TION	COUNTY	TOT SHEE
TILE HAME :		ESIGNEO -		REVISEI REVISEI				STA	ATE OF	ILLINOIS		CHILA	MARY OF QUA	NTITIES		1633	3365	A-RS-1	CONTRACT	22
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	SUMMARY OF QUANTITIES		URBAN 1007 STATE			CONSTRUCT	TION TYPE	CODE	7		SUMMARY OF QUANTITIES		URBAN 1001. STATE	1	CON	ISTRUCTIO	ON TYPE	CODE	
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0300250	TEMPORARY PAVEMENT MARKING	FOOT	300	300		-	 			78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	200	200					
	- LINE 8"										REMOVAL								1
				-					-										
0300260	TEMPORARY PAVEMENT MARKING	FOOT	520	520						X 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1099	1099					
	- LINE 12"														**************************************				
										X2020110	GRADING AND SHAPING SHOULDERS	UNIT	570	570	-				
0300280	TEMPORARY PAVEMENT MARKING	FOOT	310	310															
	- LINE 24"									X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SO FT	570	570					***************************************
	· · · · · · · · · · · · · · · · · · ·														-				
0301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	540	540				ļ		X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	210	210					_
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8000100	THERMOPLASTIC PAVEMENT MARKING	SO FT	426.3	426, 3						X6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	8	8					
	- LETTERS AND SYMBOLS					ļ		-		1	(SPECIAL)								
			A management of the control of the c		-	ļ.				***************************************									
8000200	THERMOPLASTIC PAVEMENT MARKING	FOOT	15450	15450				ļ	<u> </u>	Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	275	275					<u> </u>
	- LINE 4"										REMOVAL AND REPLACEMENT		ļ				·		
			***************************************			<u> </u>	-	-						-					
8000400	THERMOPLASTIC PAVEMENT MARKING	FOOT	1620	1620		ļ		ļ		20018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	21	21			· · · · · · · · · · · · · · · · · · ·		
	- LINE 6"	***************************************	da d			·											· · · · · · · · · · · · · · · · · · ·		-
8000500	THERMOPLASTIC PAVEMENT MARKING	FOOT	300	300		<u> </u>		<u> </u>		20030850	TEMPORARY INFORMATION SIGNING	SO FT	51,4	51.4					-
	- LINE 8"		300	300		<u> </u>				Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		·			
						 	-			20010003	MATERIAL TROUBLETT INSURANCE	L 30m	<u> </u>						-
8000600	THERMOPLASTIC PAVEMENT MARKING	FOOT	520	520		-		The state of the s											-
	- LINE 12"												1						-
					Average and a second a second and a second and a second and a second and a second a		 	- Transmission of the second o		The filtre of th					H-14			V	+
8000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	310	310			 												-
- With the state of the state o	- LINE 24"				epittisaav			-								***************************************			
A CANADA					-														
8100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	250	250	A Section of the sect	1				-	· · · · · · · · · · · · · · · · · · ·								
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wcx x 42w100ft\gulllock		DRAWN - CHECKED -		REVISED			1		TATE OF	ILLINUIS RANSPORTA	AMMUS SUMMA	RY OF QUANT	ITIES		1633	3365 A	-RS-1	COOK CONTRACT	22





26TH STREET (WESTERN AVE. - EAST END AVE.)



SAFETY EDGE DETAIL

SAFETY EDGE TREATMENT SHALL BE APPLIED TO PAVED SHOULDER OF 1 FT OR LESS THAT IS ADJACENT TO AGGREGATE / EARTH SHOULDER.

LEGEND

- 1. EXISTING AGGREGATE SHOULDERS
- 2.) EXISTING P.C. CONCRETE PAVEMENT ± 9.0"
- (3.) EXISTING HMA SURFACE COURSE ± 5 3/4 "
- (4.) PROPOSED HMA SURFACE REMOVAL (21/4")
- (5.) EXISTING HMA SURFACE OVERLAY AFTER MILLING, ± 3.5"
- 6. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (3/4")
- PROPOSED HMA SURFACE COURSE, MIX "D", N50 (11/2")
- 8. PROPOSED SAFETY EDGE SHOULDER
- 9.) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (0.) PROPOSED GRADING AND SHAPING SHOULDERS

HOT-MIX ASPHALT MIXTURE REQUIREM	ENTS
MIXTURE TYPE	DESIGN AIR VOIDS(%) @ NDES
RESURFACING	
HMA SURFACE COURSE, MIX D, N50, (IL-9.5 mm)	3.0% @ 50 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 GYR
PATCHING	
CLASS D PATCHES (HMA BINDER IL 19 mm)	4% @ 70 GYR

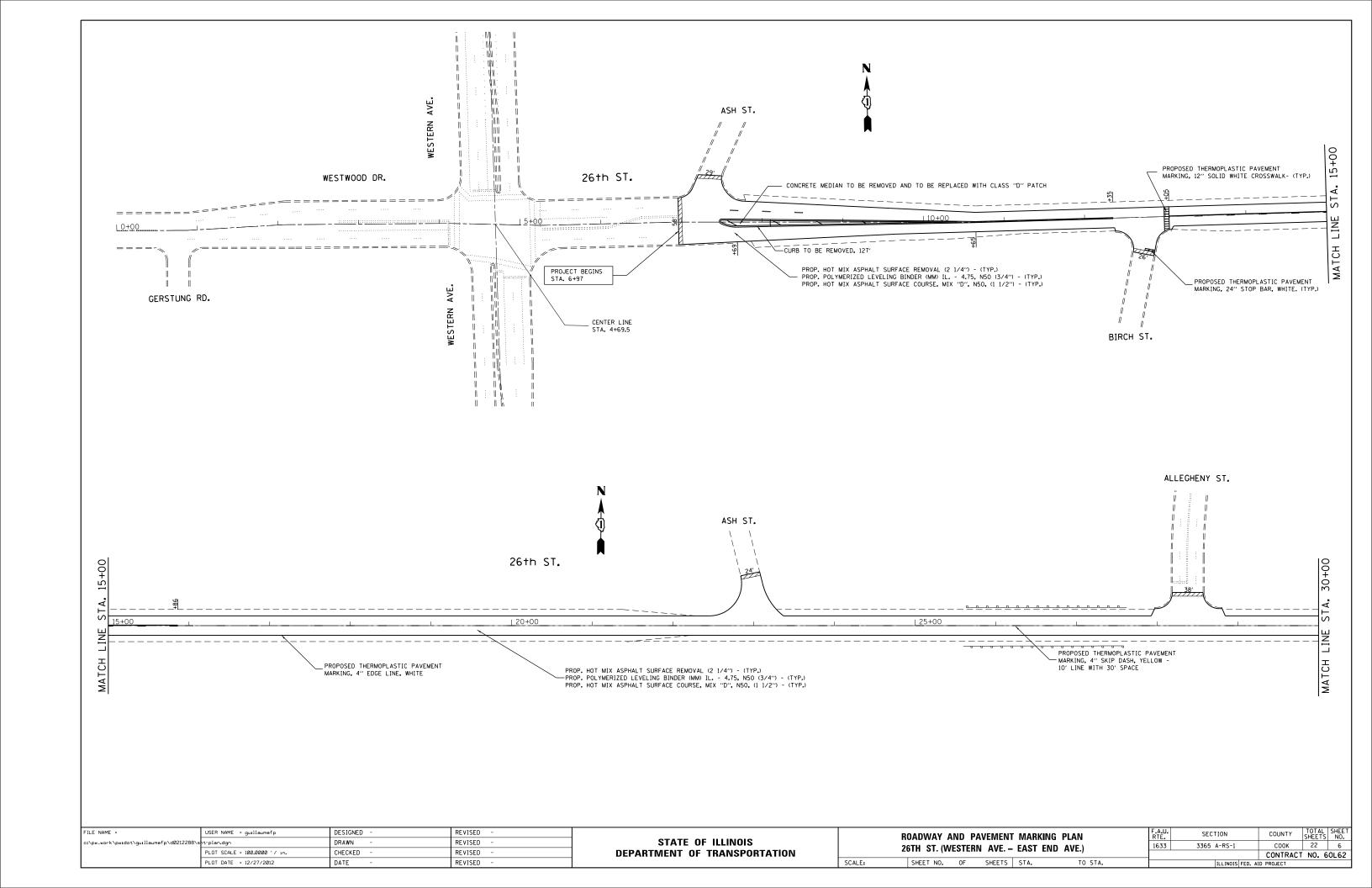
NOTES

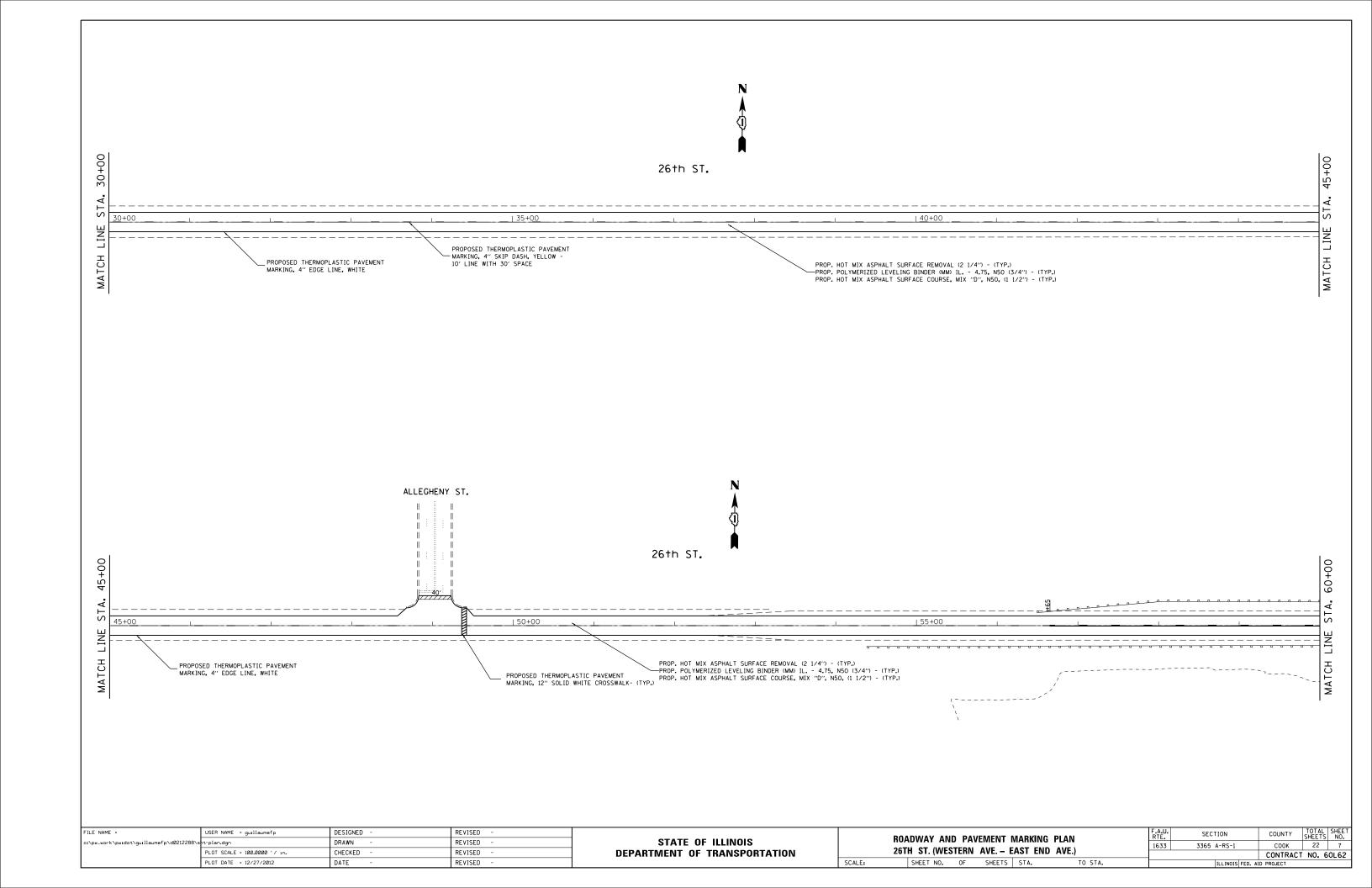
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SQYD/IN.
"THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND
FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED
BY DISTRICT ONE SPECIAL PROVISIONS."
"FOR "USE OF RECYCLED MATERIAL" SEE DISTRICT ONE SPECIAL PROVISIONS."

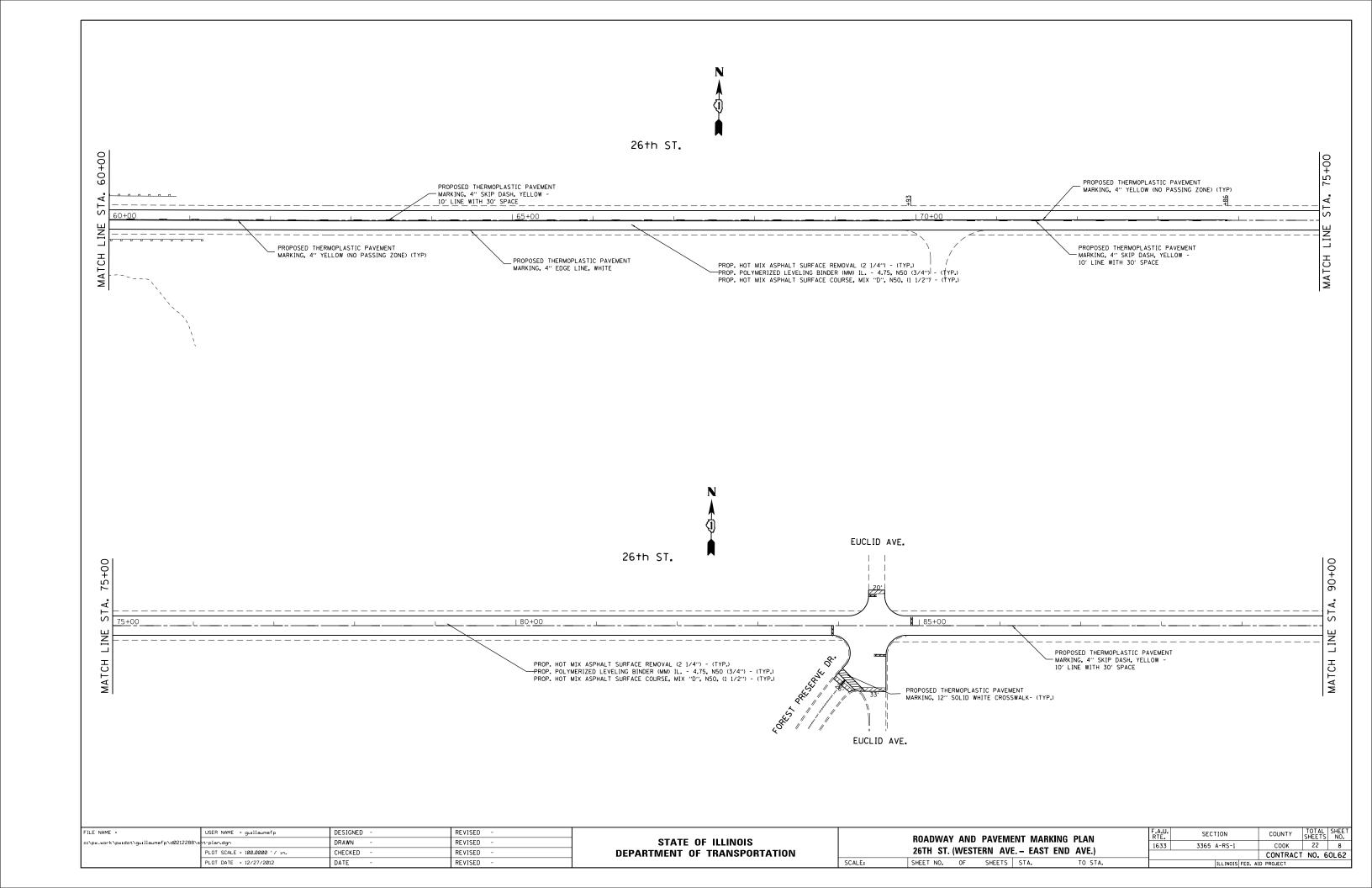
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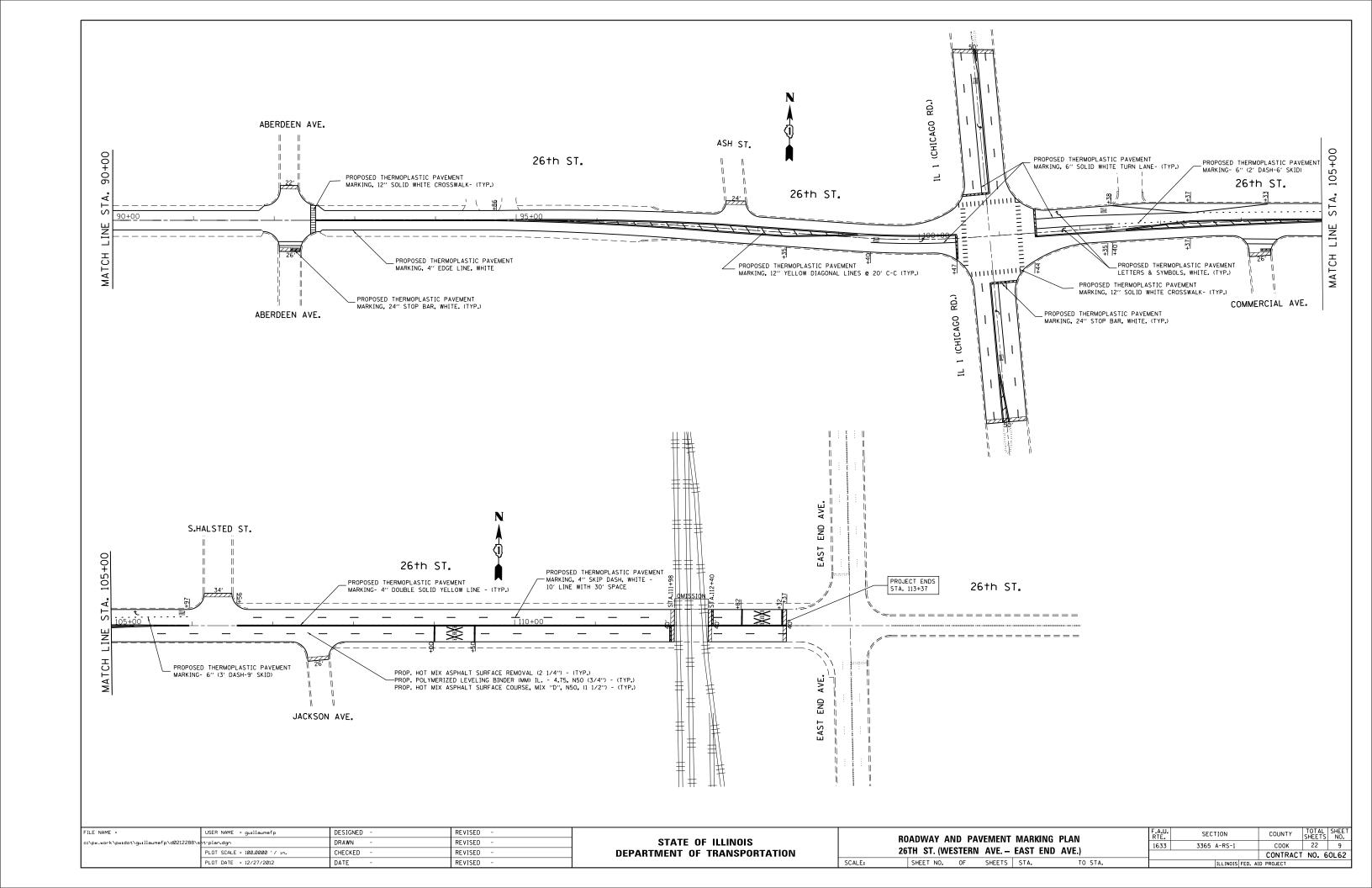
THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

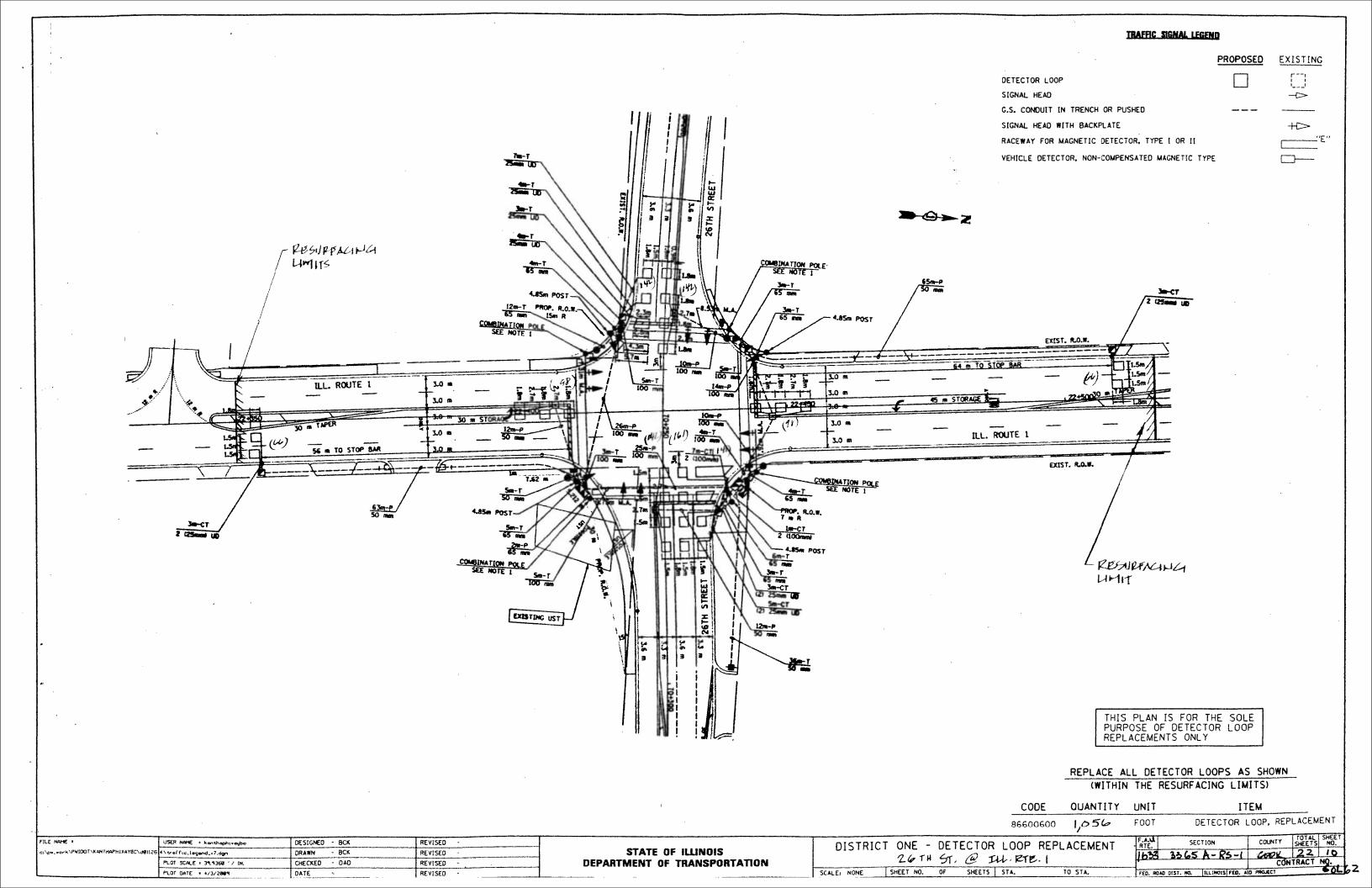
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c:\pw_work\pwidot\guillaumefp\d0212288\s	t-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				3365 A-RS-1	COOK 22 5
	PLOT SCALE = 100.0002 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO.60L62
	PLOT DATE = 12/28/2012	DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	









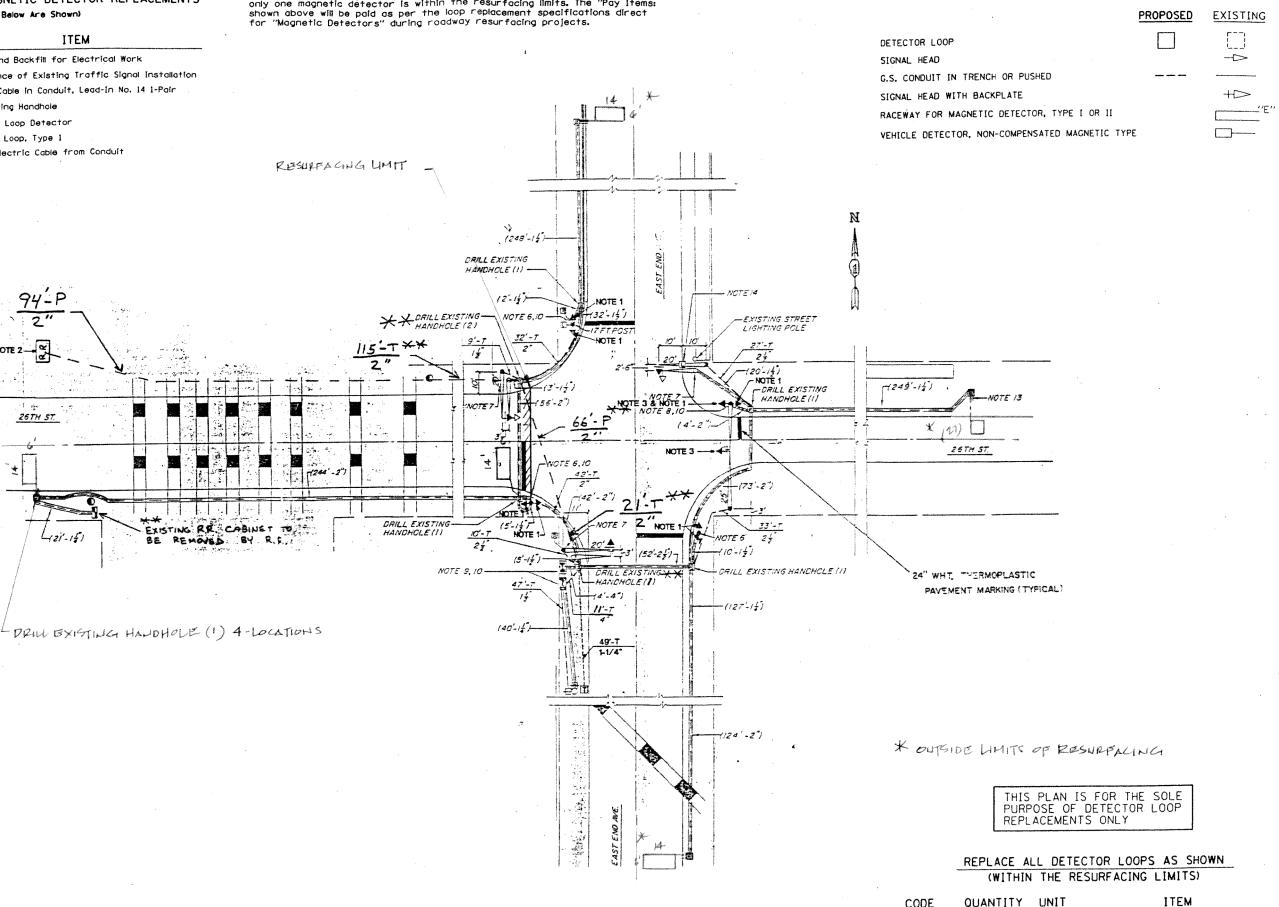


SCHEDULE OF QUANTITIES FOR MAGNETIC DETECTOR REPLACEMENTS (. When Quantitles Below Are Shown)

CODE	QUANTITY	UNIT	ITEM
81900200	0	FOOT	Trench and Backfill for Electrical Work
85000200	1	EACH	Maintenance of Existing Traffic Signal Installation
87301305	1463	FOOT	Electric Cable in Conduit, Lead-In No. 14 1-Pair
87900200	4	EACH	Drill Existing Handhole
88500100	5	EACH	Inductive Loop Detector
88600100	113	FOOT	Detector Loop. Type 1
89502300	1200	FOOT	Remove Electric Cable from Conduit

26TH ST.

All Magnetic Detectors will be replaced at a signalized intersection; even if only one magnetic detector is within the resurfacing limits. The "Pay Items: shown above will be paid as per the loop replacement specifications direct



DESIGNED - BCK USER NAME = konthophixoybc REVISED FILE NAME : DRAWN - BCX 4\traffic_legend_v7.dgn REVISED PLOT SCALE . 39.9360 '/ IN. CHECKED - DAD REVISED PLOT DATE * 4/3/2989 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE - DETECTOR LOOP REPLACEMENT 26TH ST. @ E. END AV. SHEET NO. OF SHEETS STA. SCALE: NONE

CODE

86600600

COUNTY SHEETS NO.

COOK ZZ //

CONTRACT NO. SECTION 1633 3365 A-RS-1

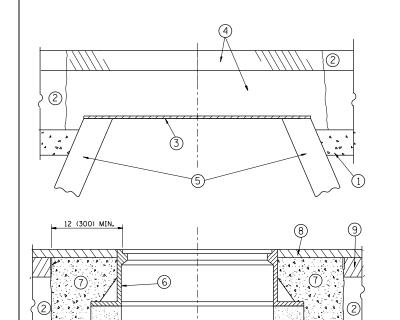
DETECTOR LOOP, REPLACEMENT

QUANTITY UNIT

FOOT

43

TRAFFIC SIGNAL LEGEND



PROPOSED

PROPOSED SAND FILL

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

BRICK, MORTAR, OR CONC. ADJUSTING RINGS

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 1½ (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 SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD

LEGEND

1 SUB-BASE GRANULAR MATERIAL

PROPOSED SAND FILL

- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (5) EXISTING STRUCTURE
- CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 8 PROPOSED HMA SURFACE COURSE
- 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:
THIS WORK WILL BE PAID FOR AT
THE CONTRACT UNIT PRICE PER EACH FOR
"FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

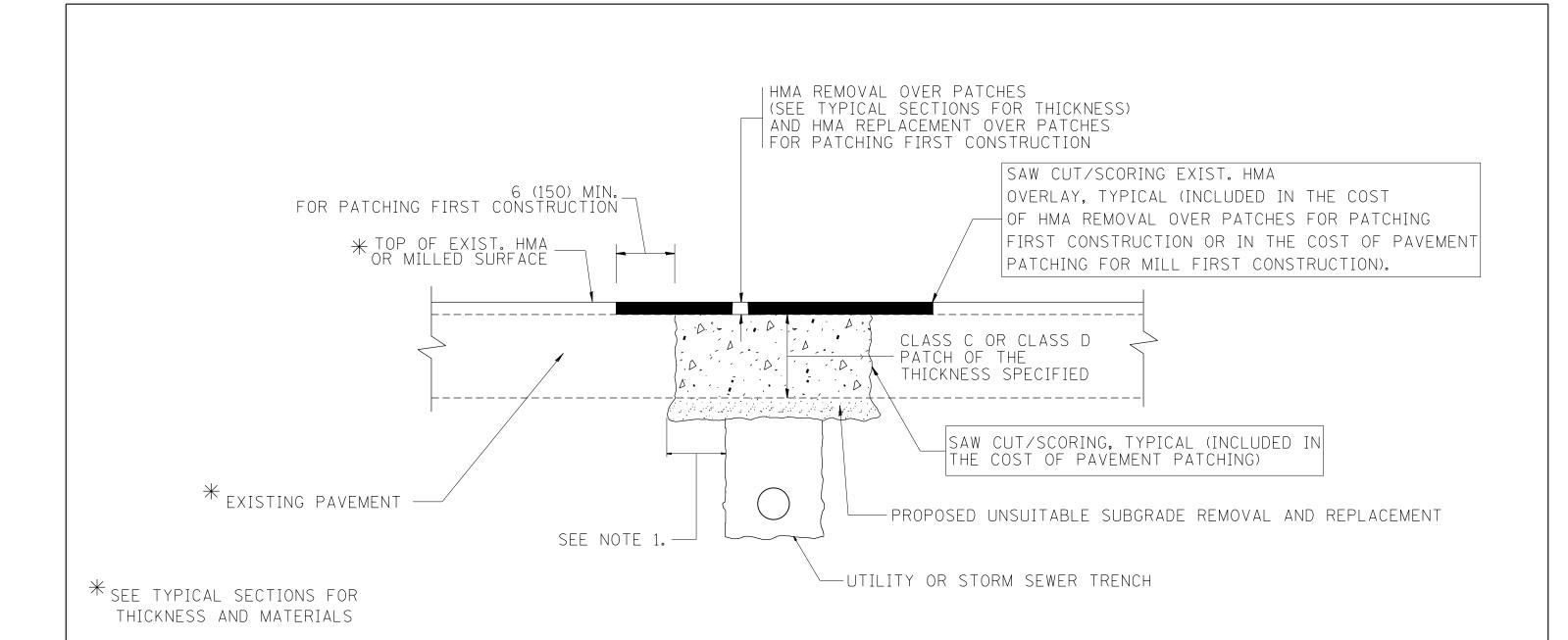
FILE NAME = DESIGNED - R. SHAH REVISED - R. SHAH 03-10-95 USER NAME = quillaumefp c:\pw_work\pwidot\guillaumefp\d0212288\ t-plan.dor DRAWN REVISED - A. ABBAS 03-21-97 CHECKED REVISED - R. WIEDEMAN 05-14-04 PLOT DATE = 12/27/2012 DATE REVISED - R. BORO 01-01-07 10-25-94

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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DETAILS FOR 1633 FRAMES AND LIDS ADJUSTMENT WITH MILLING SHEET NO. 1 OF 1 SHEETS STA.

COUNTY 3365 A-RS-1 COOK 22 12 BD600-03 (BD-8) CONTRACT NO. 60L62



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".

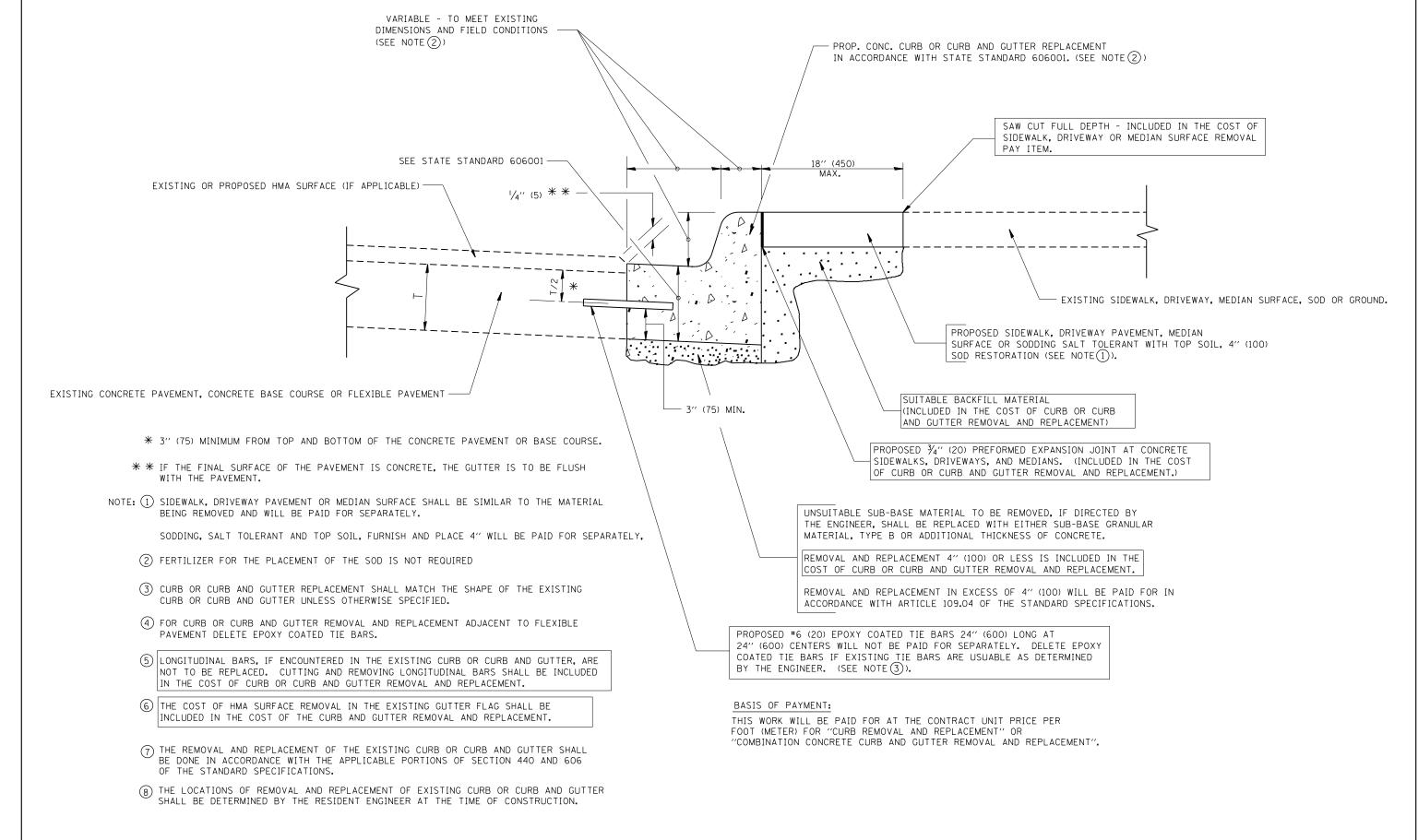
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 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)

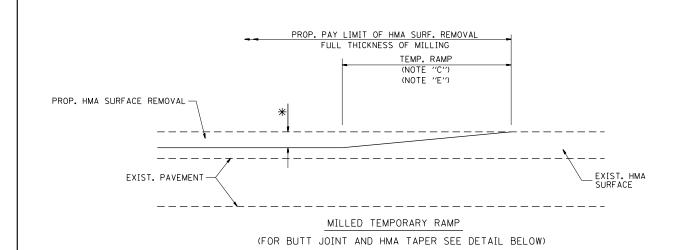
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

F	ILE NAME =	USER NAME = guillaumefp	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.U RTF SECTION	COUNTY TOTAL SHEET
-	:\pw_work\pwidot\guillaumefp\d0212288\s	ht-plan.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		1633 3365 A-RS-1	COOK 22 13
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 60L62
		PLOT DATE = 12/27/2012	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	

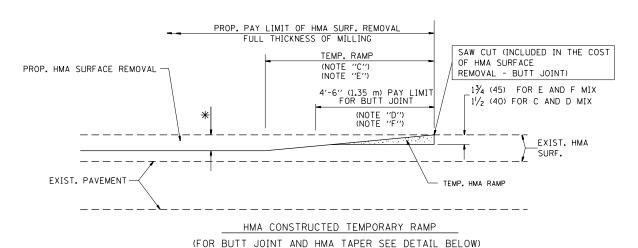


CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

JIILL 13 140					CURB OR CURB AND GUTTER				SHAH 10-03-96	REVISED -	DESIGNED - A. HOUSEH	USER NAME = guillaumefp	FILE NAME =		
COOK 22 14	S-1 C00K	3365 A-F	1633						7 STATE OF ILLINOIS	ABBAS 03-21-97	REVISED -	DRAWN -	\sht-plan.dgn	c:\pw_work\pwidot\guillaumefp\d0212288\s	
CONTRACT NO. 60L62	24) CONTRACT I			Ī	REMOVAL AND REPLACEMENT		DEPARTMENT OF TRANSPORTATION REMOVAL AND REPLACEMENT		DEPARTMENT OF TRANSPORTATION	GOMEZ 01-22-01	REVISED -	CHECKED -	PLOT SCALE = 100.0000 ' / in.		
	INOIS FED. AID PROJECT	ROAD DIST. NO. 1 ILL		TO STA.	STA.	1 SHEETS	SHEET NO. 1 OF 1	SCALE: NONE		BORO 12-15-09	REVISED -	DATE - 03-11-94	PLOT DATE = 12/27/2012		
	-24)	BD600-06 (BD-			STA.			SCALE: NONE	DEPARTMENT OF TRANSPORTATION	GOMEZ 01-22-01	REVISED -			, , ,	

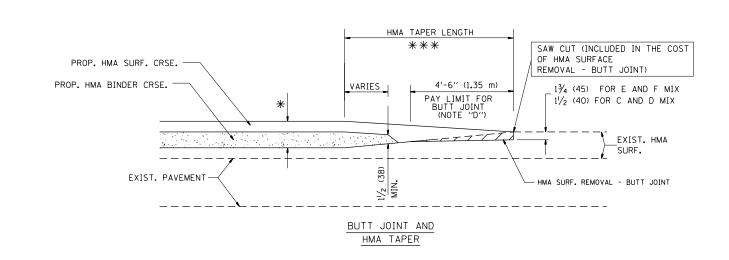


OPTION 1



OPTION 2

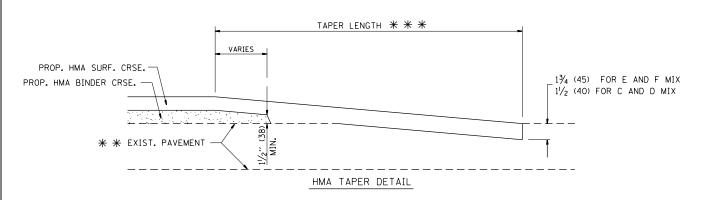
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROP. HMA OR PCC SURFACE REMOVAL - BUTT JOINT 30'-0" (9.0 m) (NOTE "A") 15'-0" (4.5 m) (NOTE "B") (NOTE "D") * * EXIST. PAVEMENT BUTT JOINT DETAIL



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

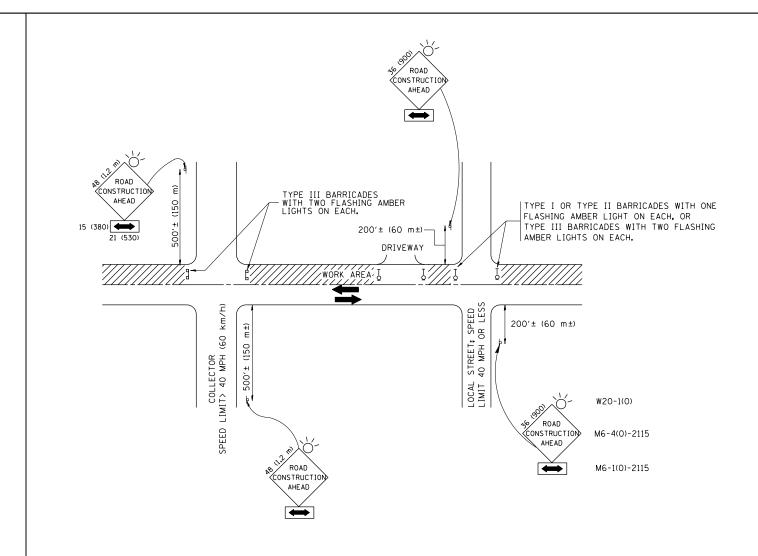
* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

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 "HOT-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 36×36 (900×900) 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.
- 3. 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.

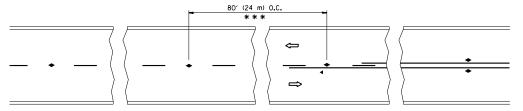
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

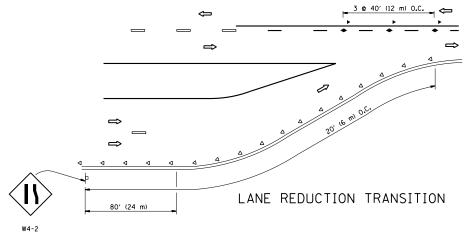
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

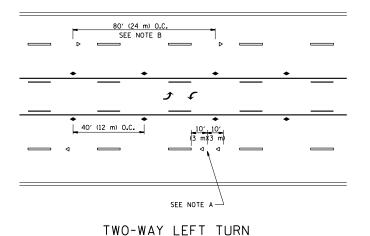
SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED.



*** 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





 \Rightarrow \Rightarrow SEE NOTE A-

MULTI-LANE/UNDIVIDED

80' (24 m) O.C. SEE NOTE B \Rightarrow SEE NOTE A

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

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.

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

---- YELLOW STRIPE

- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

MINIMUM OF 3 W
EQUALLY SPACED 3 @ 80' (24 m) O.C. — ___ 3 @ 80' (24 m) O.C. 3 @ 40' (12 m) 3 @ 40' (12 m) 40' (12 m) 0.C. 40' (12 m) 0.C. ⇔ \Rightarrow ◆ 40′ (12 m) 0.C. 40' (12 m) 0.C. * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE * * WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN



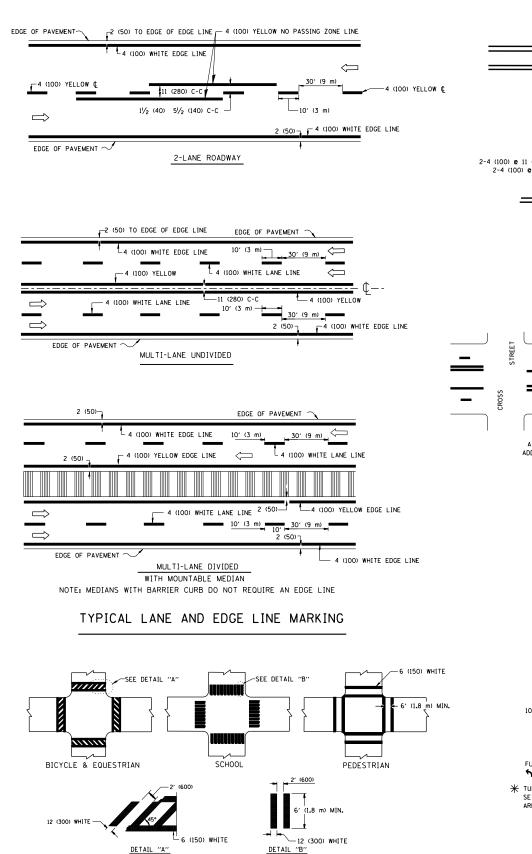
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED	- T. RAMMACHER 09-19-94
c:\pw_work\pwidot\guillaumefp\dØ212288\s	nt-plan.dgn	DRAWN -	REVISED	-T. RAMMACHER 03-12-99
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	-T. RAMMACHER 01-06-00
	PLOT DATE = 12/27/2012	DATE -	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS						F.A.U SECTION				
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RES				REGISTANT\	1633	3365 A-RS-1	COOK			
NAISED RELECTIVE PAVEIVIENT WARKENS (SNOW)-PEOW RESISTANT)						TC-11	CONTRA			
CALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT			

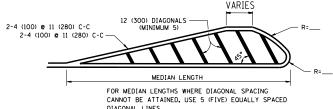
TOTAL SHEET NO. SECTION COUNTY соок 3365 A-RS-1 CONTRACT NO. 60L62



TYPICAL CROSSWALK MARKING

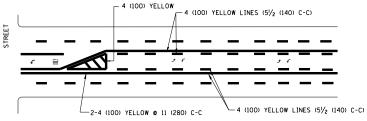
4' (1.2 m) OUTSIDE TO NO DIAGONALS OUTSIDE OF LINES __ 2-4 (100) YELLOW @ 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

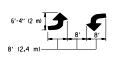


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

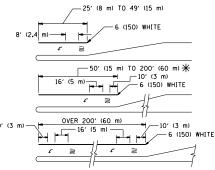


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

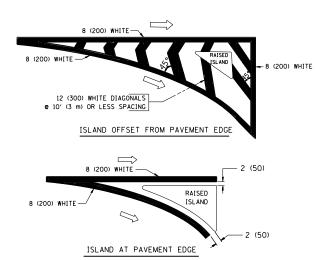


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

 \divideontimes 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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

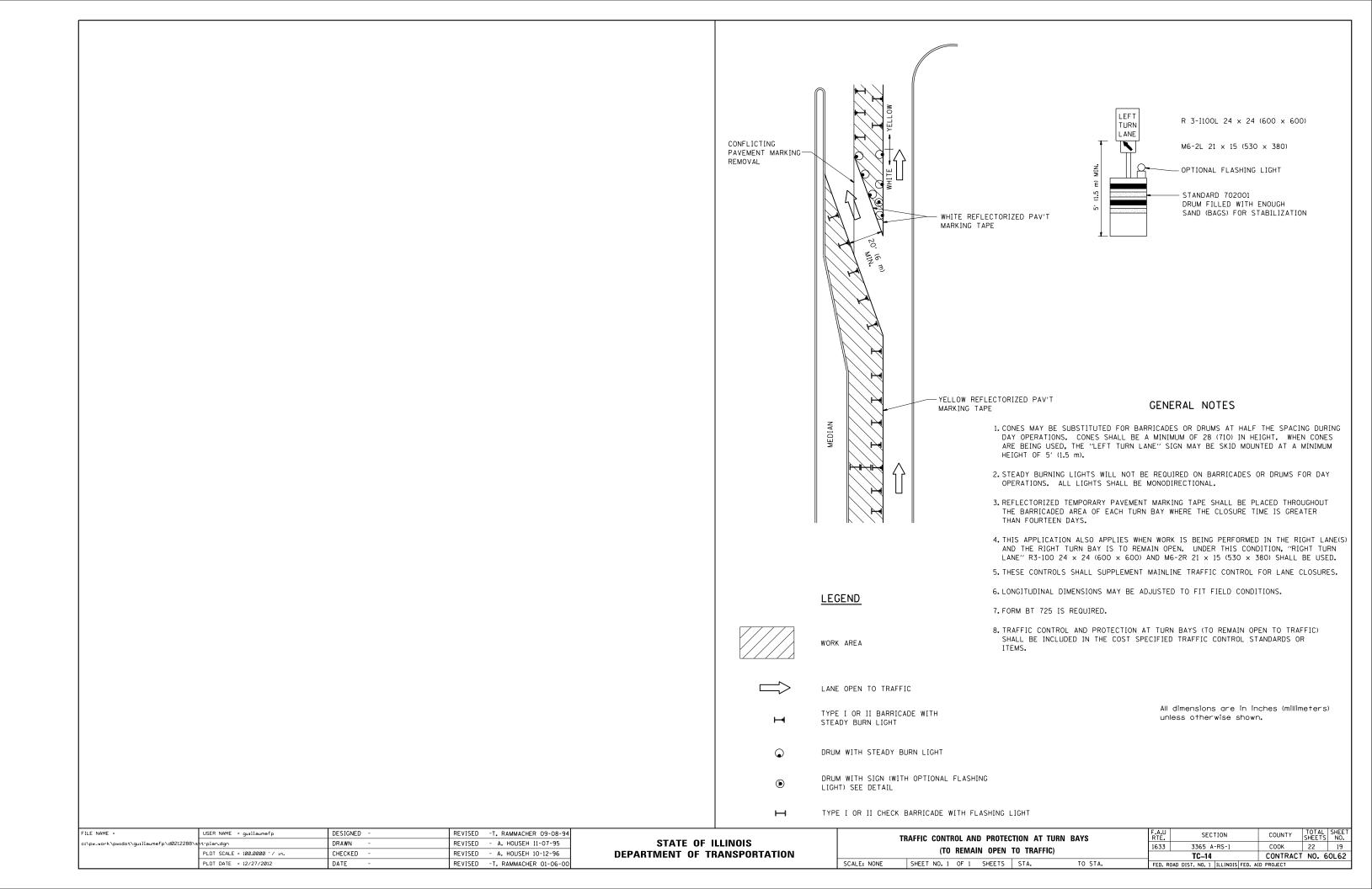
TYPE OF MARKING	WIDTH OF LINE			CDAOTHO / DEMARKS
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE 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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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 SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	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 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
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))

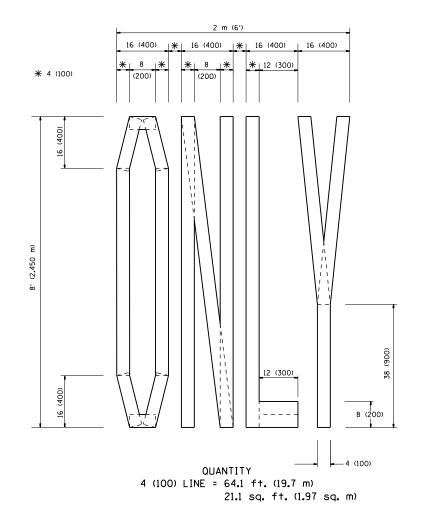
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

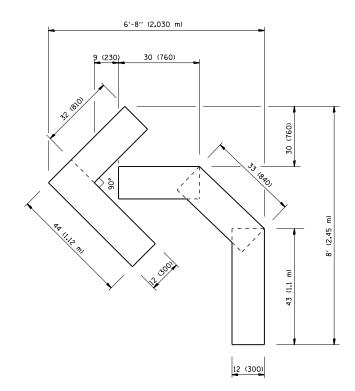
All dimensions are in inches (millimeters) unless otherwise shown.

22 18 CONTRACT NO. 60L62

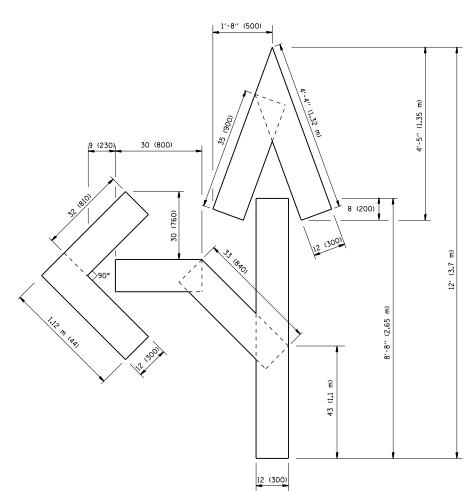
FILE NAME =	USER NAME = guilloumefp	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94			DISTRICT ON	IE		F.A.U RTF	SECTION	COUNTY
c:\pw_work\pwidot\guillaumefp\dØ212288\s	nt-plan.dgn	DRAWN -	REVISED -A. HOUSEH 10-09-96	STATE OF ILLINOIS	TYPICAL PAVEMENT MARKINGS		1633	3365 A-RS-1	WILL		
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -A. HOUSEH 10-17-96	DEPARTMENT OF TRANSPORTATION				TC-13	CONTRAC		
	PLOT DATE = 12/27/2012	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS	FED. AID PROJECT







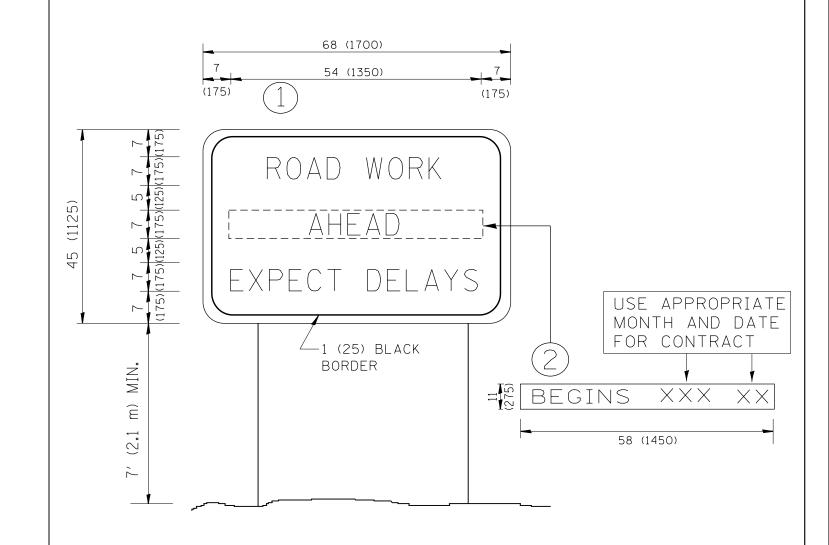
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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 = guillaumefp	DESIGNED -	REVISED -T. RAMMACHER 06-05-96		PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.U RTF	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\guillaumefp\dØ212288\s	nt-plan.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS	FOR TRAFFIC STAGING SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		3365 A-RS-1	СООК	22 20
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION			TC-16	CONTRAC	
	PLOT DATE = 12/27/2012	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00				AD DIST. NO. 1 ILLINO	IS FED. AID PROJECT	



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.

FILE NAME =	USER NAME = guilloumefp	DESIGNED -	REVISED - R. MIRS 09-15-97	CTATE OF HUNDIC	ARTERIAL ROAD	F.A.U SECTION	COUNTY TOTAL SHEET NO.
or ipmenor is ipmedot (garridamo) pi taberezado te	PLOT SCALE = 100.0000 '/ in.	DRAWN - CHECKED -	REVISED - R. MIRS 12-11-97 REVISED -T. RAMMACHER 02-02-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	1633 3365 A-RS-1	COOK 22 21
	PLOT DATE = 12/27/2012	DATE -	REVISED - C. JUCIUS 01-31-0		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	TC-22 FED. ROAD DIST. NO. 1 ILLINOIS FED. AI	CONTRACT NO. 60L62 ID PROJECT

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (990 mm) x WIDTH OF PAVED SHOULDER. PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (990 mm) x WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER ** = (600 mm) ** = (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)

USER NAME = guillaumefp

PLOT DATE = 12/27/2012

LOT SCALE = 100.0000 '/ in.

-plan.dor

FILE NAME :

c:\pw_work\pwidot\guillaumefp\d0212288

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-OUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD BI4001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN. TRENCHED 1" (25 mm) STRAIGHT SAW CUTS PERPENDICULAR TO MEDIAN (TYP.) ** UNIT DUCT (3) ** ** WUNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

VOLUME DENSITY ("FAR OUT" DETECTION)

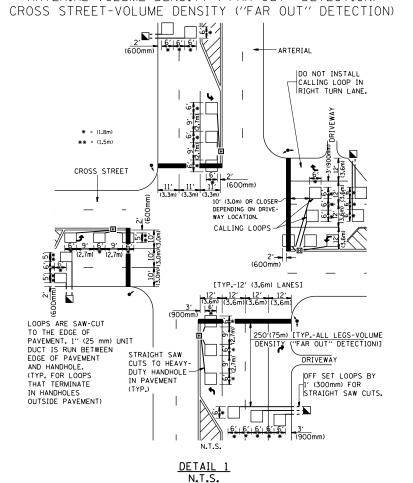
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)

*

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



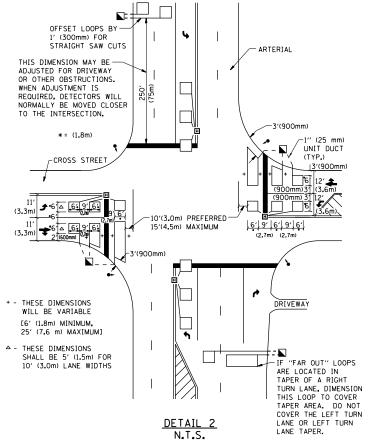
DESIGNED

ORAWN

DATE

CHECKED

R.K.F.



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
DEPARTMENT OF TRANSPORTATION

	DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					3365 A-RS-1	соок	22	22
DETAILS FOR HUADWAT RESUMFACING					TS-07	CONTRACT	NO. 6	OL62
	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED RO	DAD DIST NO 1 THE INDIS FED A	ID PROJECT		