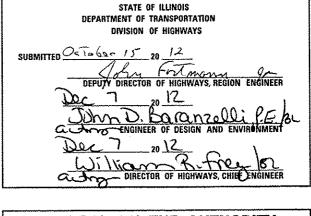


CONTRACT NO. 60N73

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INDEX OF SHEETS

- 1 TITLE SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6 8 ROADWAY AND PAVEMENT MARKING PLANS
- 9 10 DETECTOR LOOP REPLACEMENT PLANS
 - 11 DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 M) (BD-01)
 - 12 DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15' (4.5 M) (BD-02)
 - 13 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
 - 14 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
 - 15 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (80-24)
 - 16 BUTT JOINT AND HMA TAPER DETAILS (8D-32)
 - 17 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. INTERSECTIONS, AND DRIVEWAYS (TC-10)
 - 18 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
 - 19 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
 - 20 PAVEMENT MARKING LETTERS & SYMBOLS FOR TRAFFIC STAGING (TC-16)
 - 21 ARTERIAL ROAD INFORMATION SIGN (TC-22)
 - 22 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL, SHEET 1 OF 6 (TS-05)
 - 23 DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

HIGHWAY STANDARDS

STANDARD NO. DESCRIPTION

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
604001-03	FRAME AND LIDS, TYPE 1
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND CUTTER
701011- 03	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L. 2W. DAY ONLY, FOR SPEEDS >= 45 MPH
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE, 2L. 2W. MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-05	LANE CLOSURE. MULTILANE IW OR 2W OR SIDEWALK CLOSURE

701901-03 TRAFFIC CONTROL DEVICES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, VILLAGE OF DIXMOOR AND THE CITY OF HARVEY.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (or TOLLWAY) PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT (or ISTHA).

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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.

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

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS), WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION 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 ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

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

WHEN CONSTRUCTION OPERATIONS ON TWO-LANE ROADS OPEN TO TRAFFIC RESULT IN THE REMOVAL OR COVERING OF ANY PAVEMENT STRIPING INDICATING PASSING RESTRICTIONS, "NO PASSING ZONES NOT STRIPED NEXT I MILES" SIGNS SHALL BE PLACED JUST PRIOR TO OPERATIONS. THE CONTRACTOR SHALL PLACE THE SIGNS AT THE BEGINNING OF THE UNSTRIPED AREA, JUST BEYOND EACH MAJOR INTERSECTION WITHIN THE UNSTRIPED AREA, AND AT SUCH OTHER LOCATIONS AS THE ENGINEER MAY DIRECT TO ENSURE A MINIMUM SPACING OF FIVE MILES. THESE SIGNS SHALL REMAIN IN PLACE UNTIL FULL NO PASSING ZONE STRIPING HAS BEEN RESTORED. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

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WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 ½ INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 钟) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 钟). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEGE IS USED.

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

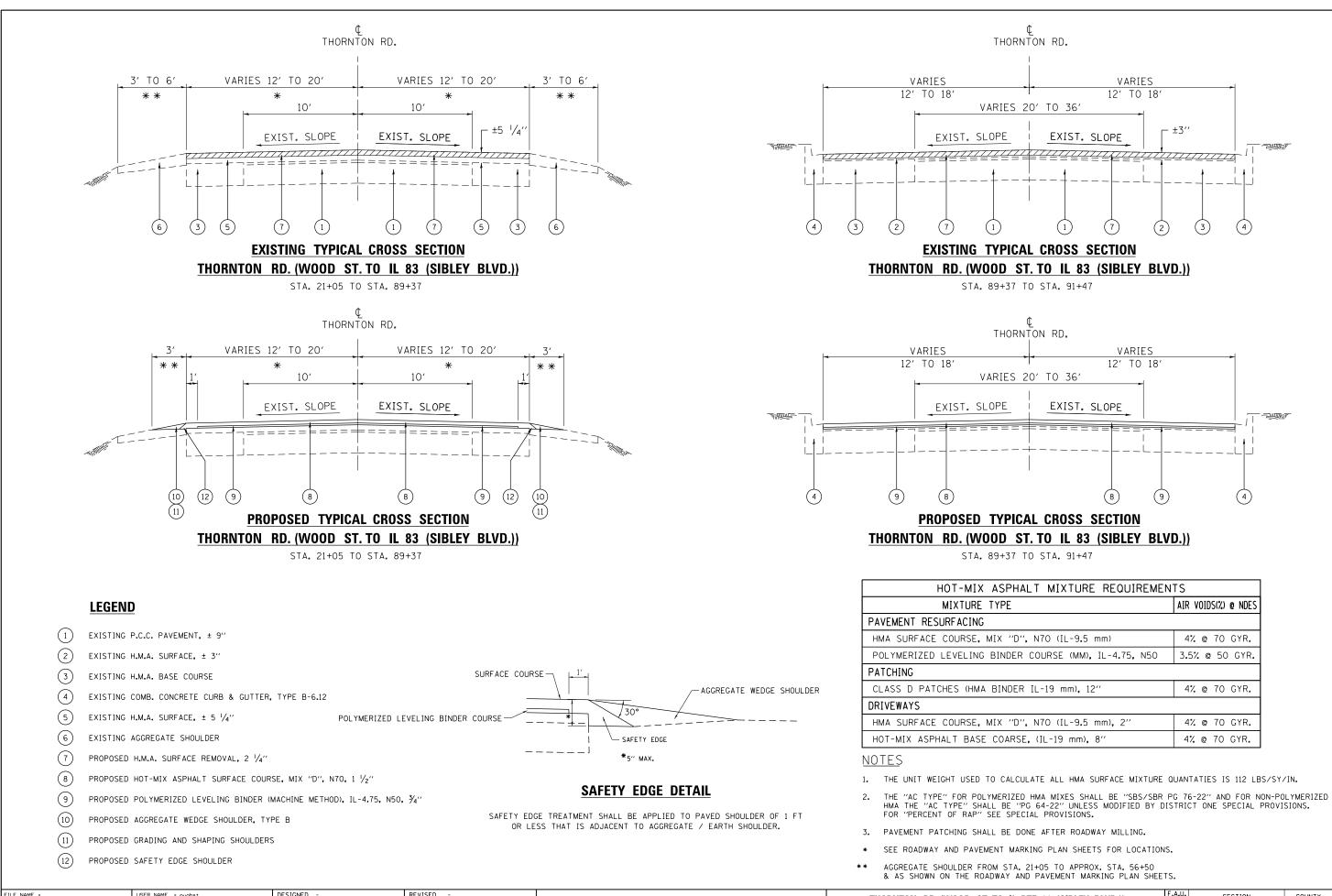
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S, AND GENERAL NOTES	1598	2010-159-85	COOK CONTRACT	23 NO 6	2
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	SUMMARY OF QUANTITIES				••••••••••••••••••••••••••••••••••••••	CONSTRUCT	1014 1110				SUMMA	RY OF QUANTITIES	
		7	TOTAL	85% FEDERAL									1
CODE NO	ITEM	UNIT	OUANTITIES	1						CODE NO		ITEM	UNIT
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	17	17	·					48102100	AGGREGATE WEI	DGE SHOULDER, TYPE B	TON
25200110	SODDING, SALT TOLERANT	SO YD	17	17						60252800	CATCH BASINS	TO BE RECONSTRUCTED	EACH
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	9	3				ļ		60406000	FRAMES AND L	IDS, TYPE 1, OPEN LID	EACH
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	20	20						60406100	FRAMES AND L	IDS. TYPE 1. CLOSED LID	ЕАСН
<u></u>							-						
40600300	AGGREGATE (PRIME COAT)	TON	100	100	-					67000400	ENGINEER'S F	IELD OFFICE, TYPE A	CAL MO
	MIXTURE FOR CRACKS, JOINTS,										MOBILIZATION		
40600400	AND FLANGEWAYS	TON	38	38						67100100	MUBILIZATION		L SUM
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	965	965						70100450	TRAFFIC CONTE STANDARD 701	ROL AND PROTECTION. 201	l sum
40600895	CONSTRUCTING TEST STRIP	EACH	1	1		*				70100460	TRAFFIC CONTE STANDARD 701	ROL AND PROTECTION, 306	L SUM
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT										TRAFFIC CONT	ROL AND PROTECTION.	
40600982	JOINT	SO YD	299	299						70102620	STANDARD 701		LSUM
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2162	2162	· · · · · · · · · · · · · · · · · · ·			1		70102640	TRAFFIC CONTE STANDARD 7018	ROL AND PROTECTION, 301	L SUM
42001300	PROTECTIVE COAT	SO YD	53	53						70300100	SHORT TERM P	AVEMENT MARKING	FOOT
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT. 8 INCH	SO YD	9	9						70300210	TEMPORARY PAY	VEMENT MARKING SYMBOLS	SQ FT
44000158	HOT-MIX ASPHALT SURFACE REMOVAL. 2 1/4"	SO YD	24952	24952						70300220	TEMPORARY PAY - LINE 4"	EMENT MARK ING	FOOT
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	17	17						70300240		EMENT MARKING	FOOT
	······································										- LINE 6"		
44201789	CLASS D PATCHES, TYPE II. 12 INCH	SO YD	172	172						70300250	TEMPORARY PAV - LINE 8"	/EMENT MARK ING	FOOT
44201 204	CLASS D PATCHES, TYPE III, 12 INCH	60.20			-						7F4/0-00-000-000-000-000-000-000-000-000-0		
44201794		SO YD	107	107 REVISED	-					70300260	TEMPORARY PA - LINE 12"	AVEMENT MARKING * SPECIALTY ITEMS	FOOT
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	SUMMARY OF QUANTITIES			85%	I	CONSTRUCT	TON TAPE			SUMMA	ARY OF QUANTITIES	
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70300280	TEMPORARY PAVEMENT MARKING ~ LINE 24"	FOOT	42	42					Z0030850	TEMPORARY 1	NFORMATION SIGNING	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	7586	7586					20064800	SELECTIVE C	LEARING	
			1000	1300					20001000	···· ·	· · · · · · · · · · · · · · · · · · ·	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	110	110							· · · ·	
	THERMOPLASTIC PAVEMENT MARKING											
78000200	- LINE 4"	FOOT	20763	20763				 		· · · · · · · · · · · · · · · · · · ·		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	418	418	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	160	160							·····	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	162	162							· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·			······································							-	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	42	42					-		· · · · · · · · · · · · · · · · · · ·	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	165	165		1					······································	
	· · · · · · · · · · · · · · · · · · ·										· · · · · · · · · · · · · · · · · · ·	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	165	165								
88600600	DETECTOR LOOP REPLACEMENT	FOOT	245	245								
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	73	73								
x5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	100	100								
	FRAMES AND LIDS TO BE ADJUSTED											
X6030310	(SPECIAL)	EACH	4	4								
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	200	200		·					·····	
	· · · · · · · · · · · · · · · · · · ·					<u> </u>				Δ	100% STATE	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	4						* \$	SPECIALTY ITEMS	
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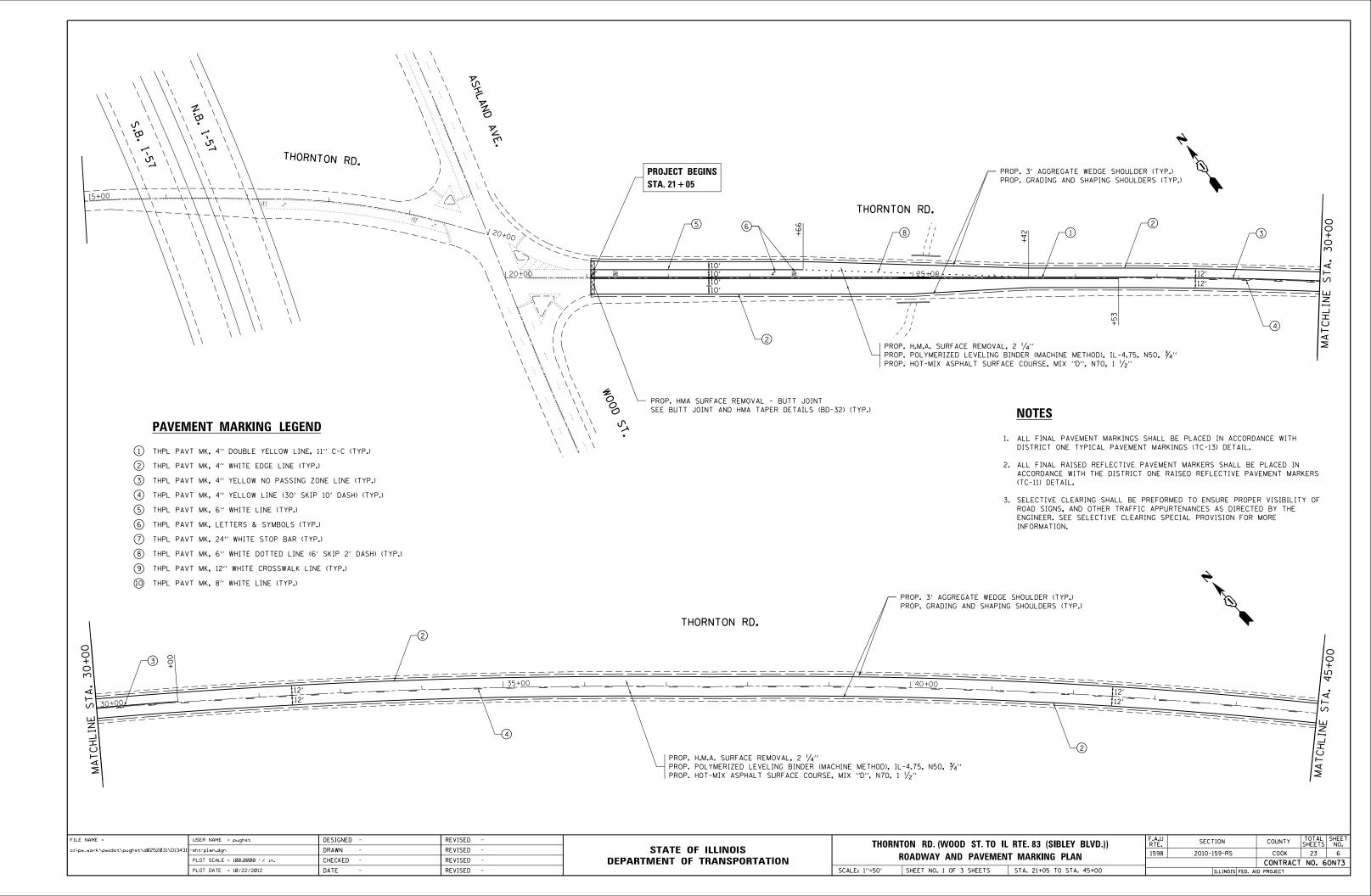
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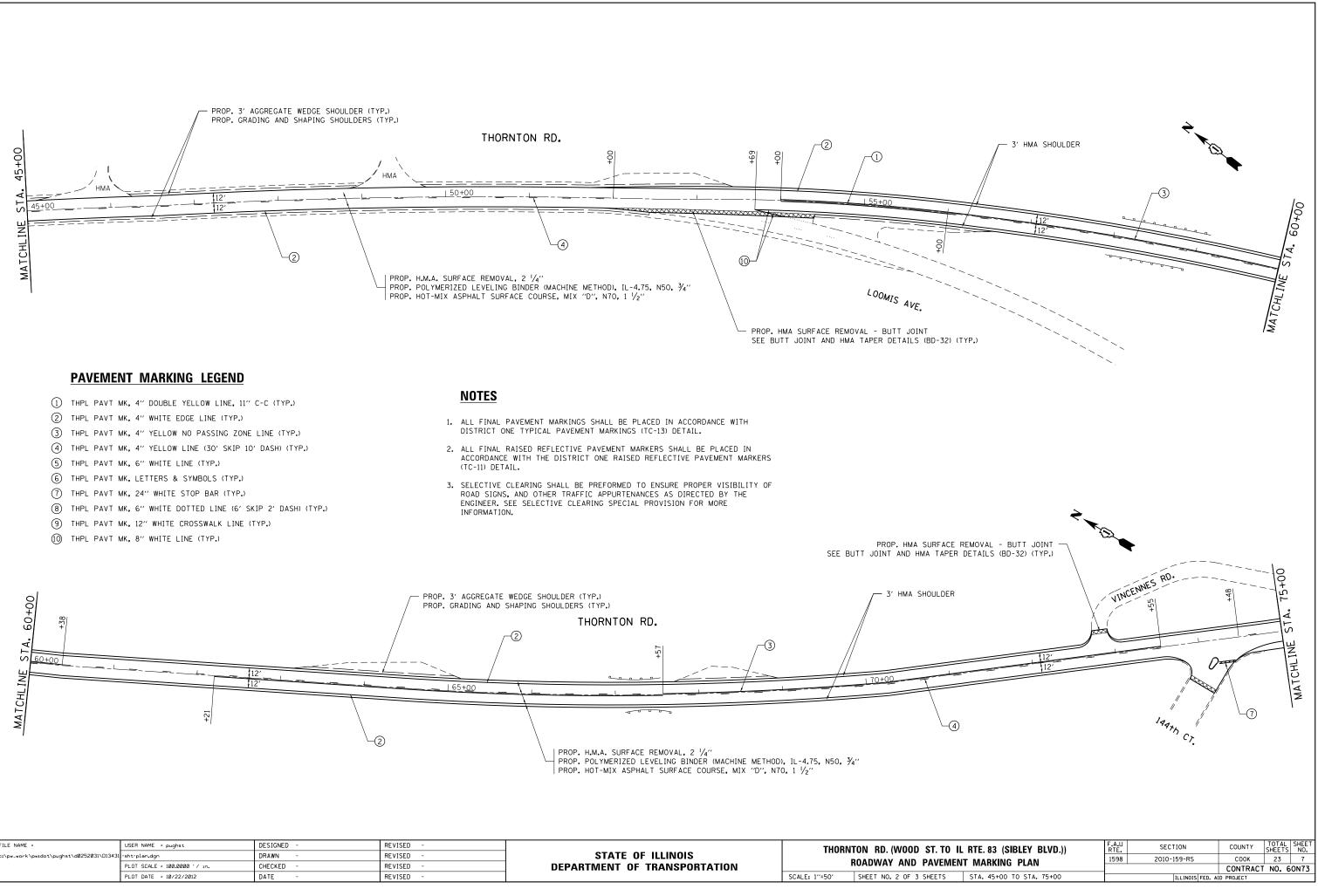


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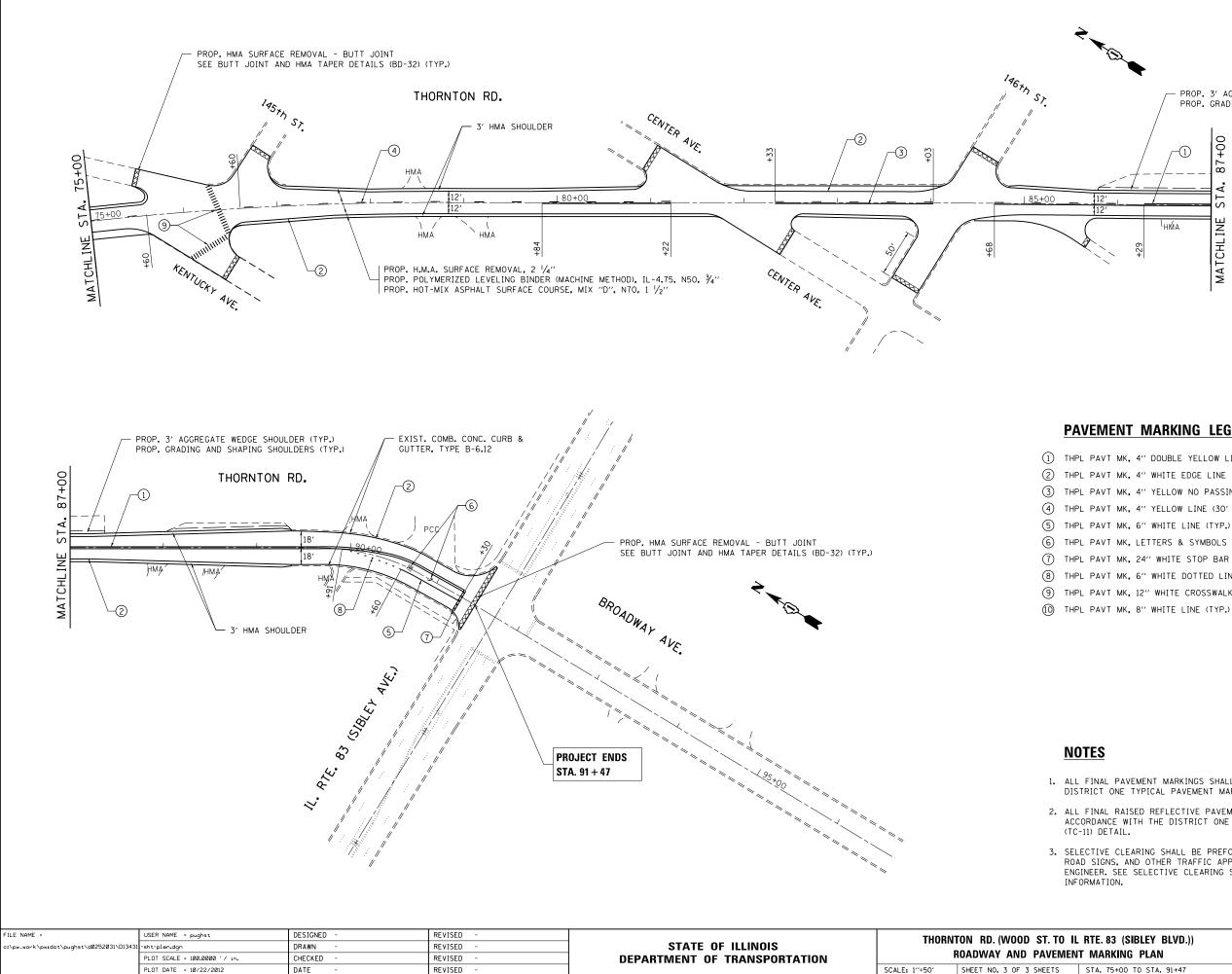
PHALT MIXTURE REQUIREMEN	TS
<u>-</u>	AIR VOIDS(%) @ NDES
"D", N7O (IL-9.5 mm)	4% @ 70 GYR.
DER COURSE (MM), IL-4.75, N50	3.5% @ 50 GYR.
DER IL-19 mm), 12''	4% @ 70 GYR.
"D", N70 (IL-9.5 mm), 2"	4% @ 70 GYR.
RSE, (IL-19 mm), 8″	4% @ 70 GYR.

IL RTE. 83 (SIBLEY B	LVD.)) F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
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- PROP. 3' AGGREGATE WEDGE SHOULDER (TYP.) PROP. GRADING AND SHAPING SHOULDERS (TYP.)

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∢ MATCHLINE

PAVEMENT MARKING LEGEND

HPL	PAVT	ΜК.	4" DOUBLE YELLOW LINE, 11" C-C (TYP.)
HPL	ΡΑντ	MK,	4" WHITE EDGE LINE (TYP.)
HPL	ΡΑντ	MK,	4" YELLOW NO PASSING ZONE LINE (TYP.)
HPL	ΡΑντ	MK,	4" YELLOW LINE (30' SKIP 10' DASH) (TYP.)
HPL	ΡΑντ	MK,	6" WHITE LINE (TYP.)
HPL	ΡΑντ	MK,	LETTERS & SYMBOLS (TYP.)
HPL	ΡΑντ	MK,	24" WHITE STOP BAR (TYP.)
HPL	ΡΑντ	ΜК,	6" WHITE DOTTED LINE (6' SKIP 2' DASH) (TYP.)
HPL	ΡΑντ	ΜК,	12" WHITE CROSSWALK LINE (TYP.)
-PI	ΡΛΥΤ	мк	8" WHITE LINE (TYP)

1. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13) DETAIL.

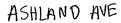
2. ALL FINAL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE RAISED REFLECTIVE PAVEMENT MARKERS

3. SELECTIVE CLEARING SHALL BE PREFORMED TO ENSURE PROPER VISIBILITY OF ROAD SIGNS, AND OTHER TRAFFIC APPURTENANCES AS DIRECTED BY THE ENGINEER. SEE SELECTIVE CLEARING SPECIAL PROVISION FOR MORE

IL RTE. 83 (SIBLEY BLVD.)) ENT MARKING PLAN		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
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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 "DECTECTOR 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 WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.







WOOD ST.

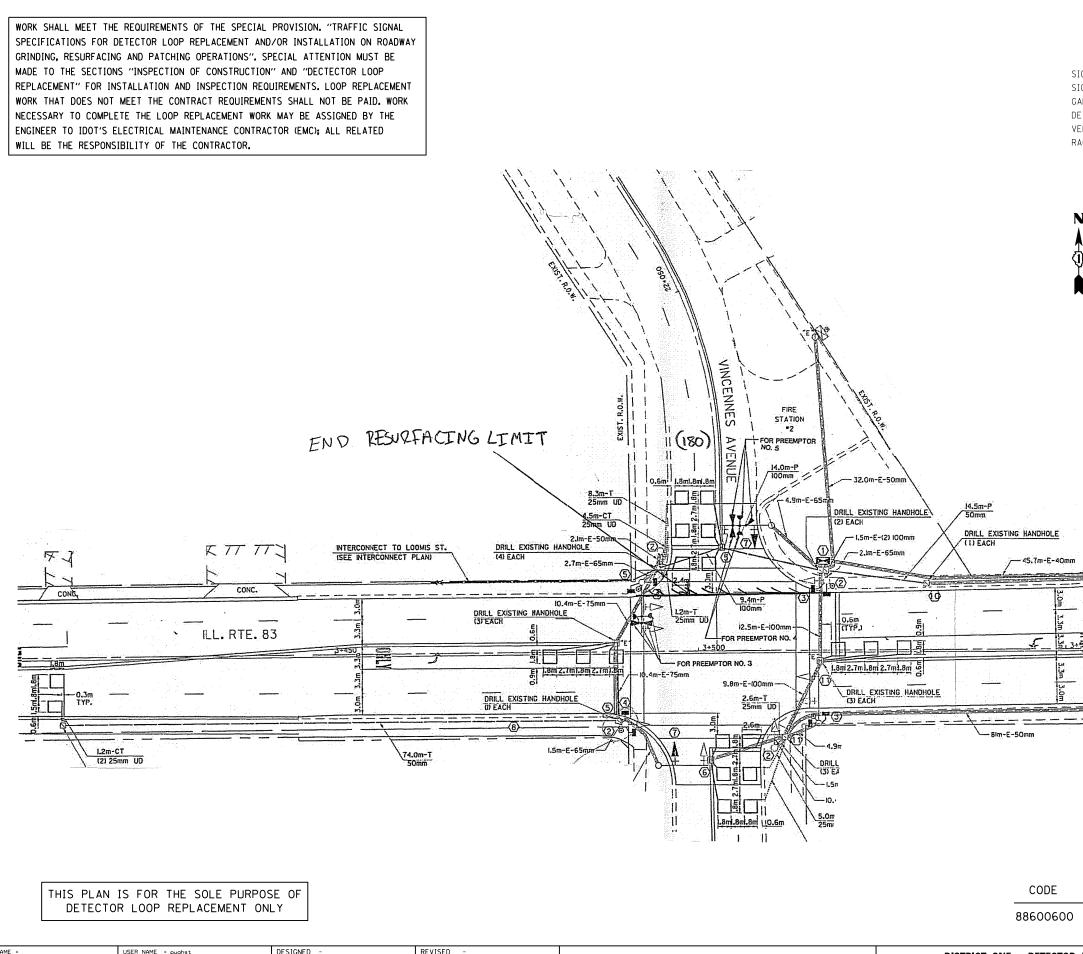
THIS PLAN IS FOR	THE SOLE PURPOSE OF
DETECTOR LOOP	REPLACEMENT ONLY

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ONE – DETECTOR LOOP REPLACEMENT ON RD AT ASHLAND AVE /WOOD ST					F.A.U. RTE.	SECT	ION	COUNTY	TOTAL SHEETS	SHEET NO.
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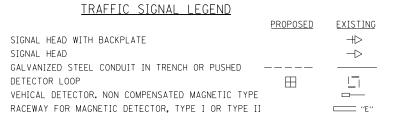
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TRAFFIC SIGNAL LEGEND

PROP	DSED EXISTING
IGNAL HEAD WITH BACKPLATE	$+ \triangleright$
IGNAL HEAD	\rightarrow
ALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED $$	
ETECTOR LOOP	3 5
EHICAL DETECTOR. NON COMPENSATED MAGNETIC TYPE	
ACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	└──── "E"



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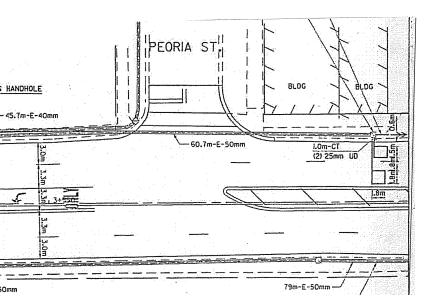


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REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS) QUANTITY LINIT

QUAI	NI	11	'	UNIT

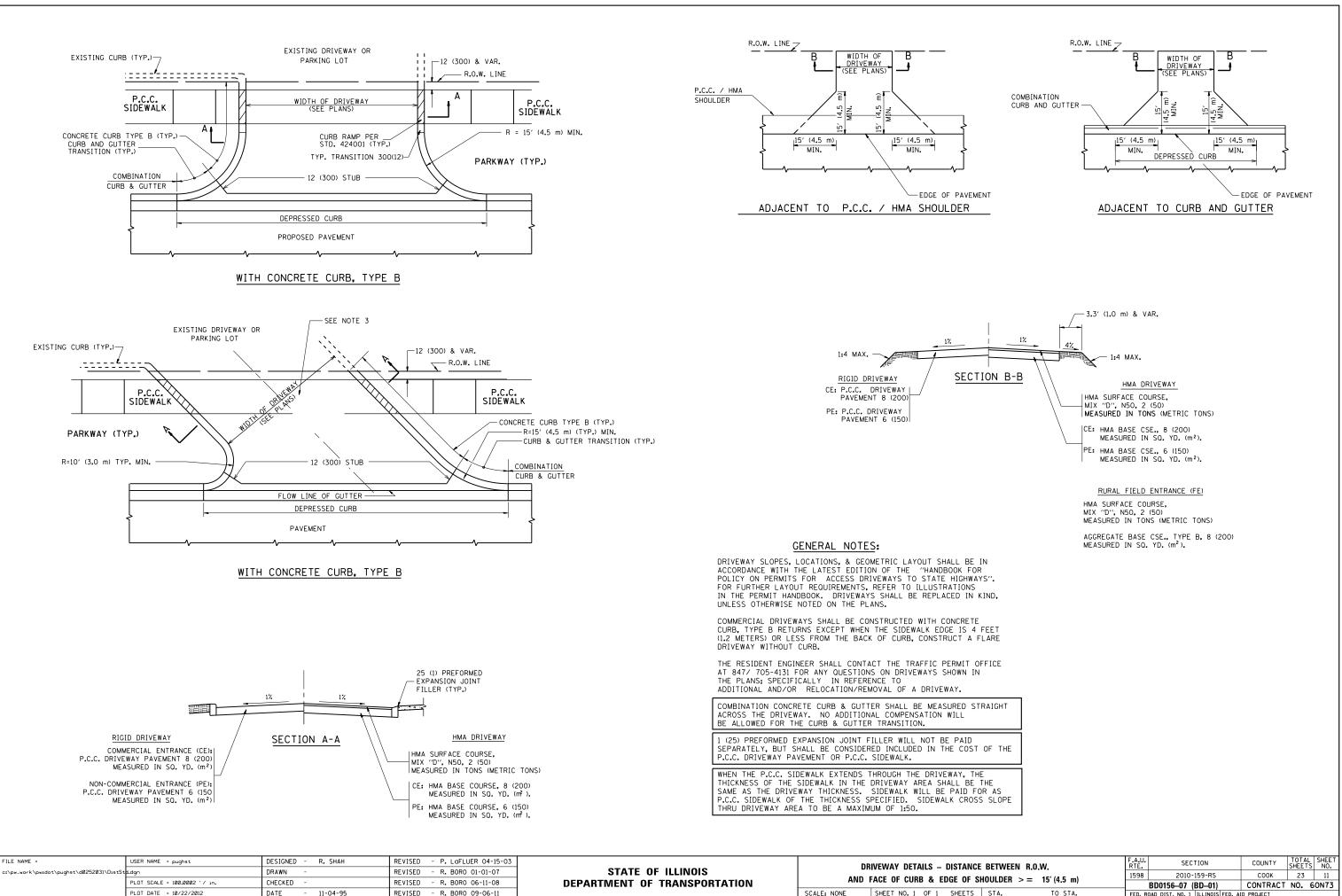
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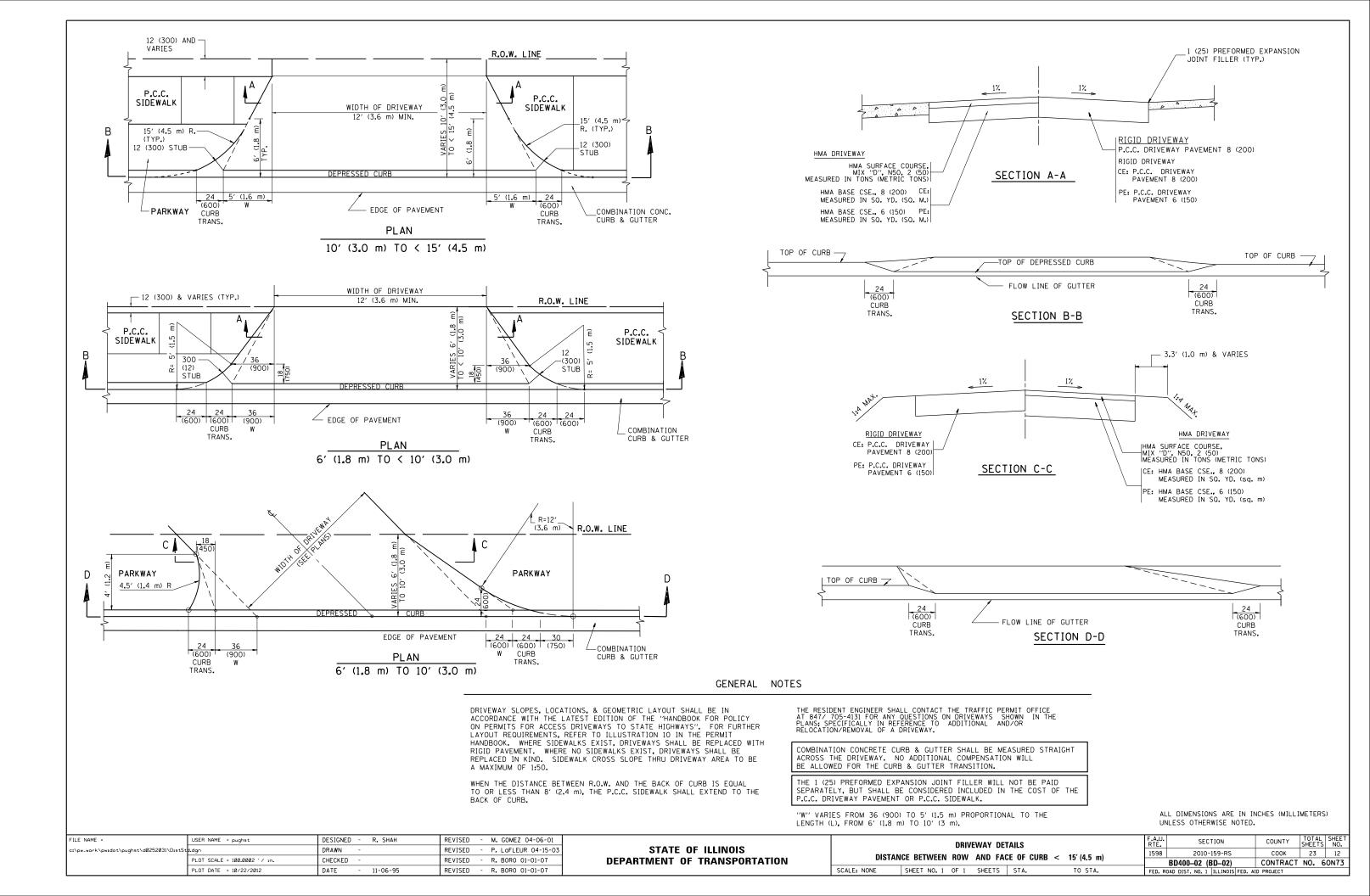
180

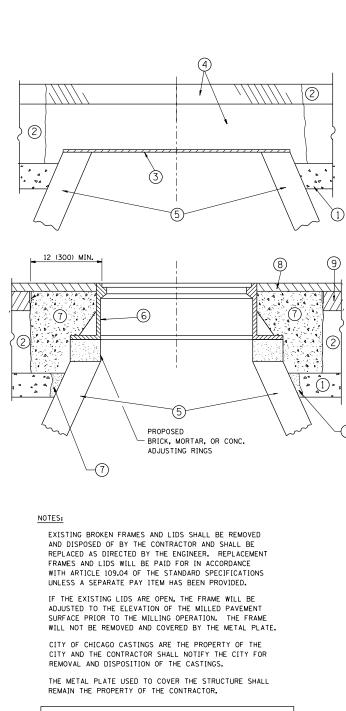
FOOT

DETECTOR LOOP, REPLACEMENT

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
1598	2010-159-RS	СООК	23	10	
		CONTRACT	NO. 6	ON73	
	ILLINOIS FED. AID PROJECT				
	RTE.	RTE. SECTION 1598 2010-159-RS	RTE. SECTION COUNTY 1598 2010-159-RS COOK	RTE. SECTION COUNTY SHEETS 1598 2010-159-RS COOK 23 CONTRACT NO. 6	







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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

FILE NAME =	USER NAME = pughst	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04			DETAILS FOR	F.A.U. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\pughst\d0252031\Dis	Std.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS			1598 2010-159-RS	СООК 23 13
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION		FRAMES AND LIDS ADJUSTMENT WITH MILLING	BD600-03 (BD-8)	CONTRACT NO. 60N73
	PLOT DATE = 10/22/2012	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

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

LEGEND

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

(5) EXISTING STRUCTURE

LOCATION OF STRUCTURES:

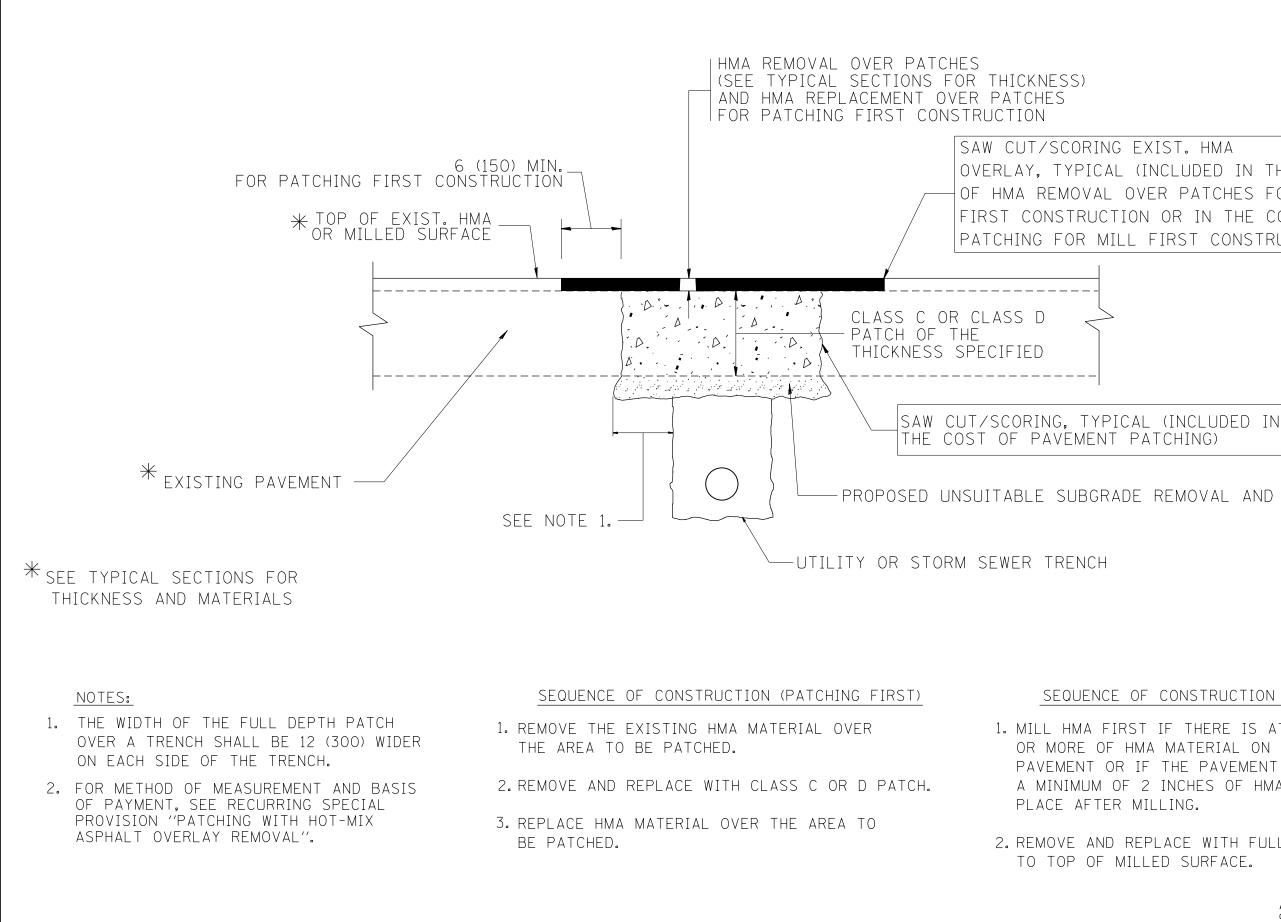
THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

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

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

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



ſ	FILE NAME =	USER NAME = pughst	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING FOR	F.A.U. RTF.	SECTION	COUNTY	TOTAL S	HEET
	c:\pw_work\pwidot\pughst\d0252031\DistSt	d.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		HMA SURFACED PAVEMENT	1598	2010-159-RS	СООК	23	14
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION			B	0400–04 (BD–22)	CONTRACT	NO. 60	N73
L		PLOT DATE = 10/22/2012	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. 4	AID PROJECT		

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

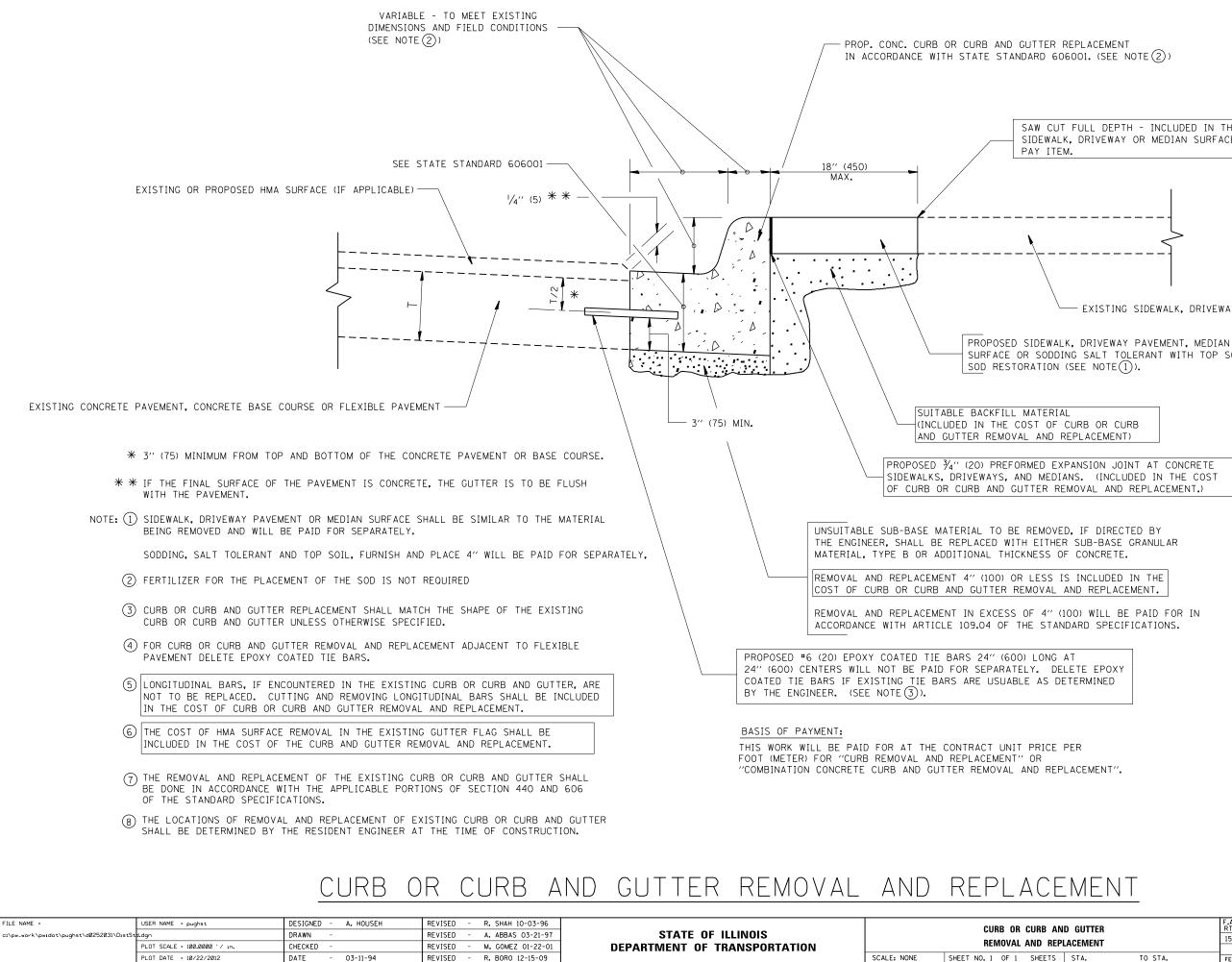
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

		DIMENSIONS ARE IN INCHES RWISE SHOWN.	(MILLIMETERS) UNLES	S
NG FOR	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VEMENT	1598	2010-159-RS	СООК	23	14
	RTE.			SHEETS	



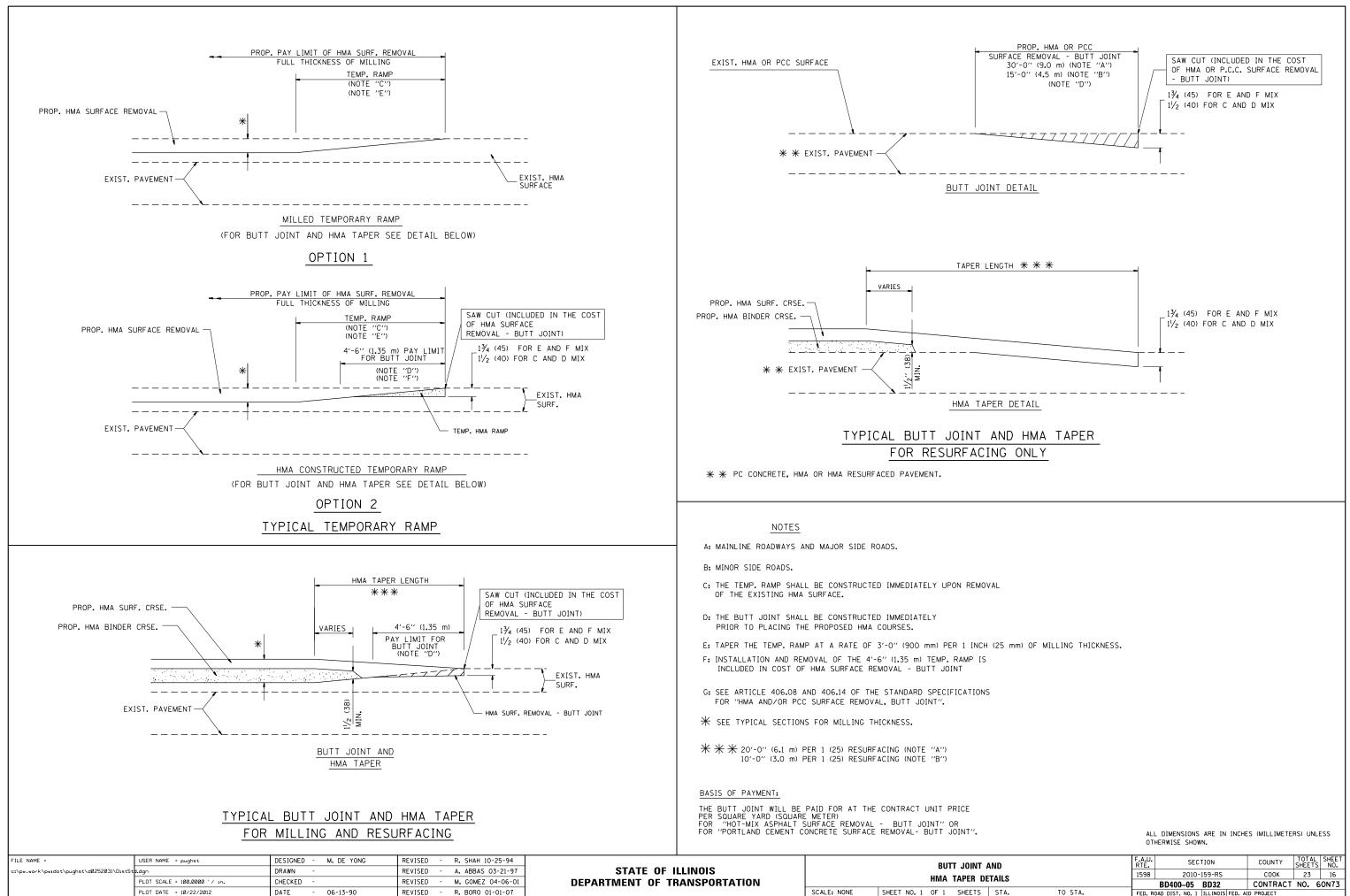
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

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

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

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

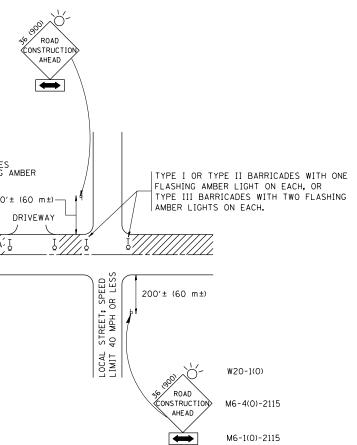
AND GUTTER				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DI	PLACEMENT			2010-159-RS	COOK	23	15
				BD600-06 (BD-24)	CONTRACT	NO. 6	50N73
;	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



AND			F.A.U. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
יב	ETAILS			2010-	159-RS		СООК	23	16
			_	BD400-05	BD32		CONTRACT	NO. 6	50N73
	STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED. A	ID PROJECT		

TRAFFIC CONTROL AND PROTECTION FOR NOTES: A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS ON TRUCTION AHEAD IN THE CONSTRUCTION ON THE SIDE ROAD OR DRIVEWAYS A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A FOR NOAD CONSTRUCTION AHEAD SIGN 36 × 36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m I) IN ADVANCE OF THE MAIN ROUTE. B BLOCAD CONSTRUCTION AHEAD SIGN 36 × 36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m I) IN ADVANCE OF THE MAIN ROUTE. B BLOCKING WITH THYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION. 5. SIDE ROAD WITH A SPEED LINIT GREATER THAN 40 MPH (60 Km/r) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: B BLOCKING WITH THYPE I, TYPE II IO RYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION. 5. SIDE ROAD WITH A SPEED LINIT GREATER THAN 40 MPH (60 Km/r) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: B BLOCKING WITH THYPE I, TYPE III DAR YAB (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. B BLOCKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B HECKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B HECKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B HECKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B HECKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B HECKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B HECKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B HECKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B HECKING WITH THYPE III BARRICADES, 1/2 OF THE CROSS SECTION B		TYPE III BARRICADE WITH TWO FLASHING LIGHTS ON EACH. 200
 NOTES: A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS I. 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: O) 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: O) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE. 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 MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE MAIN ROUTE. b) THE CLOSED PORTION. 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL 		NSTRUCTION
 A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS I. 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: O) 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. D) 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. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: O) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUTE. D) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE MAIN ROUTE. D) 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 (M6-1) SHALL 	TRAFFIC CONTROL AND PROT	ECTION FOR
 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: o) 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: o) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE. 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 MAIN ROUTE. b) THE CLOSED PORTION. c) ONE ROAD CONSTRUCTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION. d) 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 (M6-1) SHALL 		-WAYS
 o) 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: o) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE. 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 (M6-1) SHALL 	1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) (DR LESS AS
 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: c) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE. 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 (M6-1) SHALL 	O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 × 36 (900×90 AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m	DO) WITH A FLASHER
 AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE. 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 	b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE F BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICA	
 FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE. 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 	2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH	
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	FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m)	
SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL	BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CRO	
	3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW ((M6-1) SHALL

FILE NAME =	USER NAME = pughst	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95			TRAFFIC CONTROL AND PROTECTION FOR	F.A.U. RTF.	SECTION	COUNTY TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\pughst\d0252031\DistS	d.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			1598	2010-159-RS	СООК 23	17
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION		SIDE RUADS, INTERSECTIONS, AND DRIVEWATS		TC-10	CONTRACT NO. 60	DN73
	PLOT DATE = 10/22/2012	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	

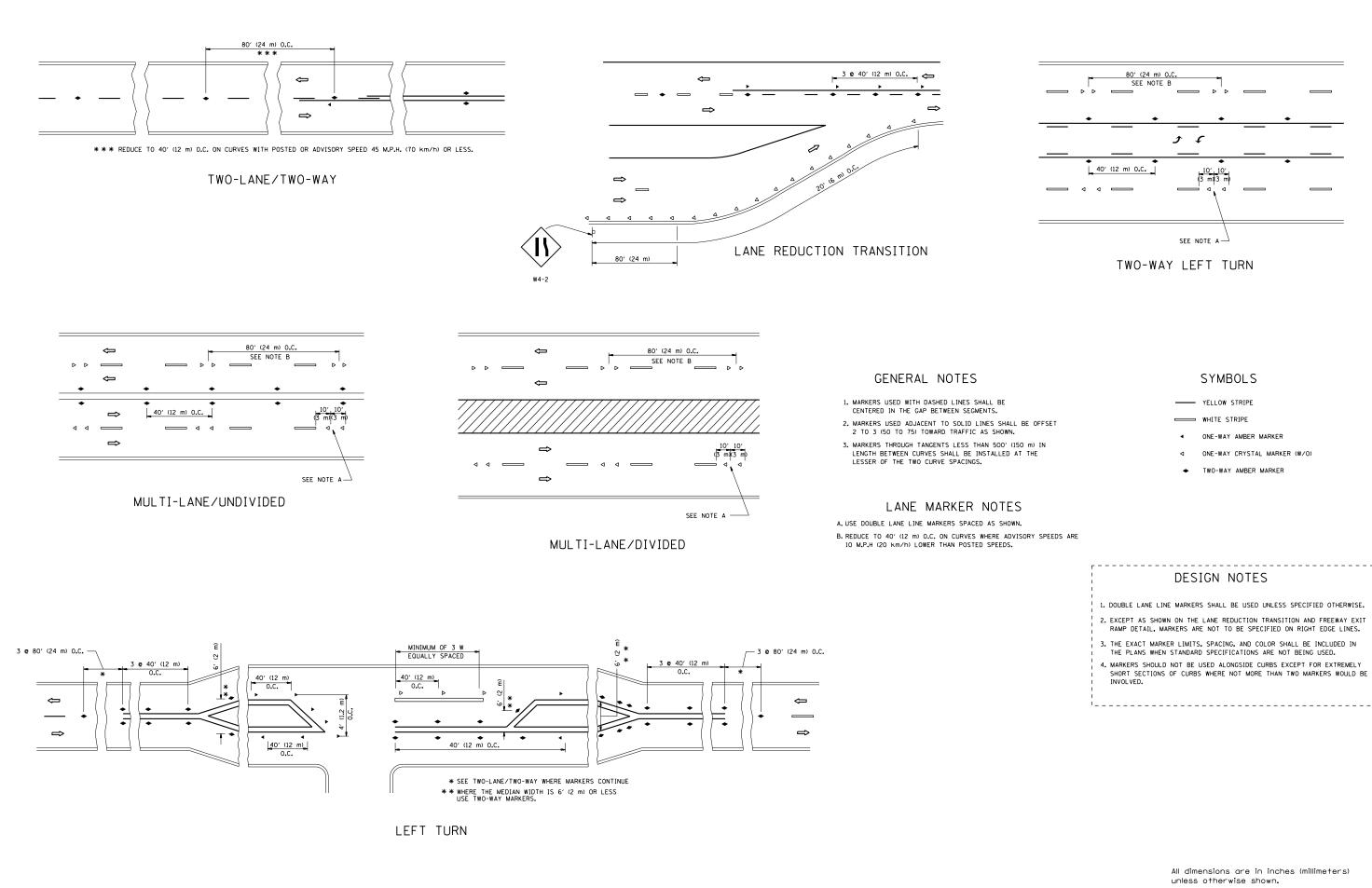


SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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.

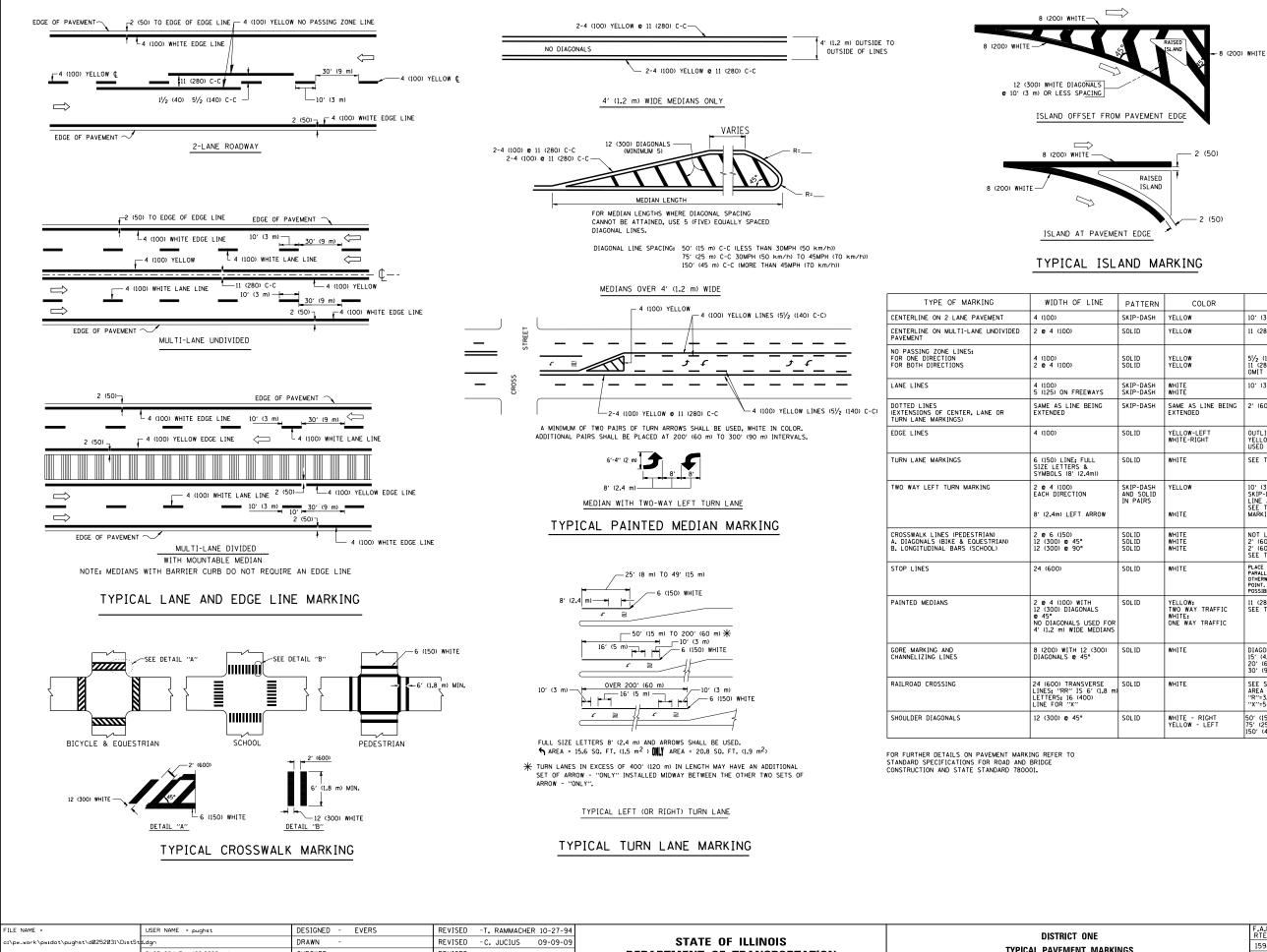
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions ar	e in	millimeters	(inches)
unless otherwise	e sho	own.	



FILE NAME =	USER NAME = pughst		REVISED - T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS		SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\pughst\d0252031\DistSt	l.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS		1598	2010-159-RS	СООК	23 18
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRACT	T NO. 60N73
	PLOT DATE = 10/22/2012	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

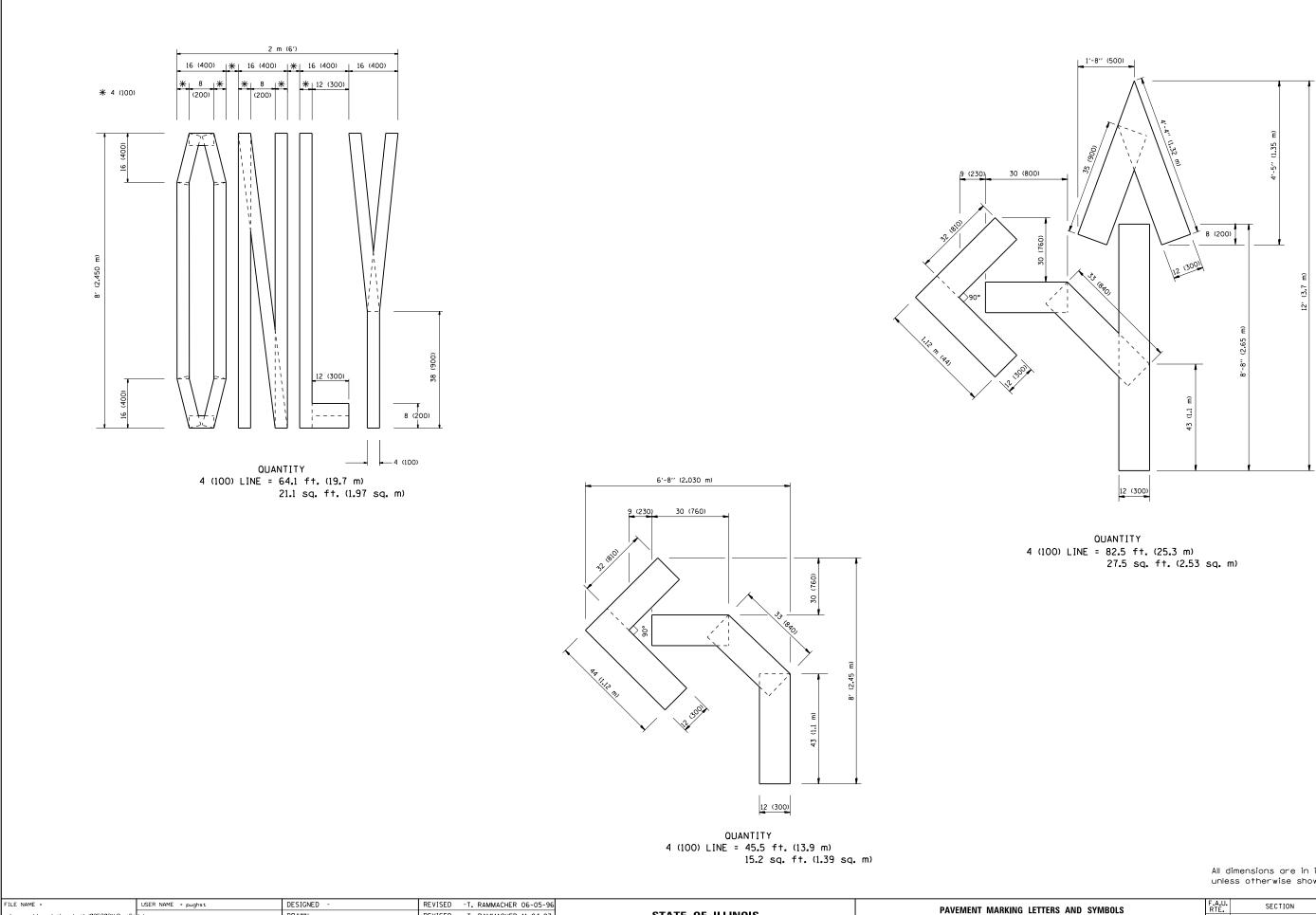
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



E =	USER NAME = pughst	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE		F.A.U.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
k\pwidot\pughst\d0252031\DistSt	:d.dgn	DRAWN -	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS			1598	2010-159-RS	соок	23 19
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TYPICAL PAVEMENT MARKINGS		TC-13		NO. 60N73
	PLOT DATE = 10/22/2012	DATE - 03-19-90	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A		

LINE	PATTERN	COLOR	SPACING / REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOL ID SOL ID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
ULL & .4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
N	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASHE 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
	SOL ID SOL ID SOL ID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESINED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 5°	SOLID	WHITE	DIAGONALS: 15'(4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20'(6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30'(9 m) C-C (0VER 45MPH (70 km/h))
VERSE 6' (1.8 m) 00)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "%"=3.6 SO. FT. (0.33 m ²) EACH "%"=54.0 SO. FT. (5.0 m ²)
	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

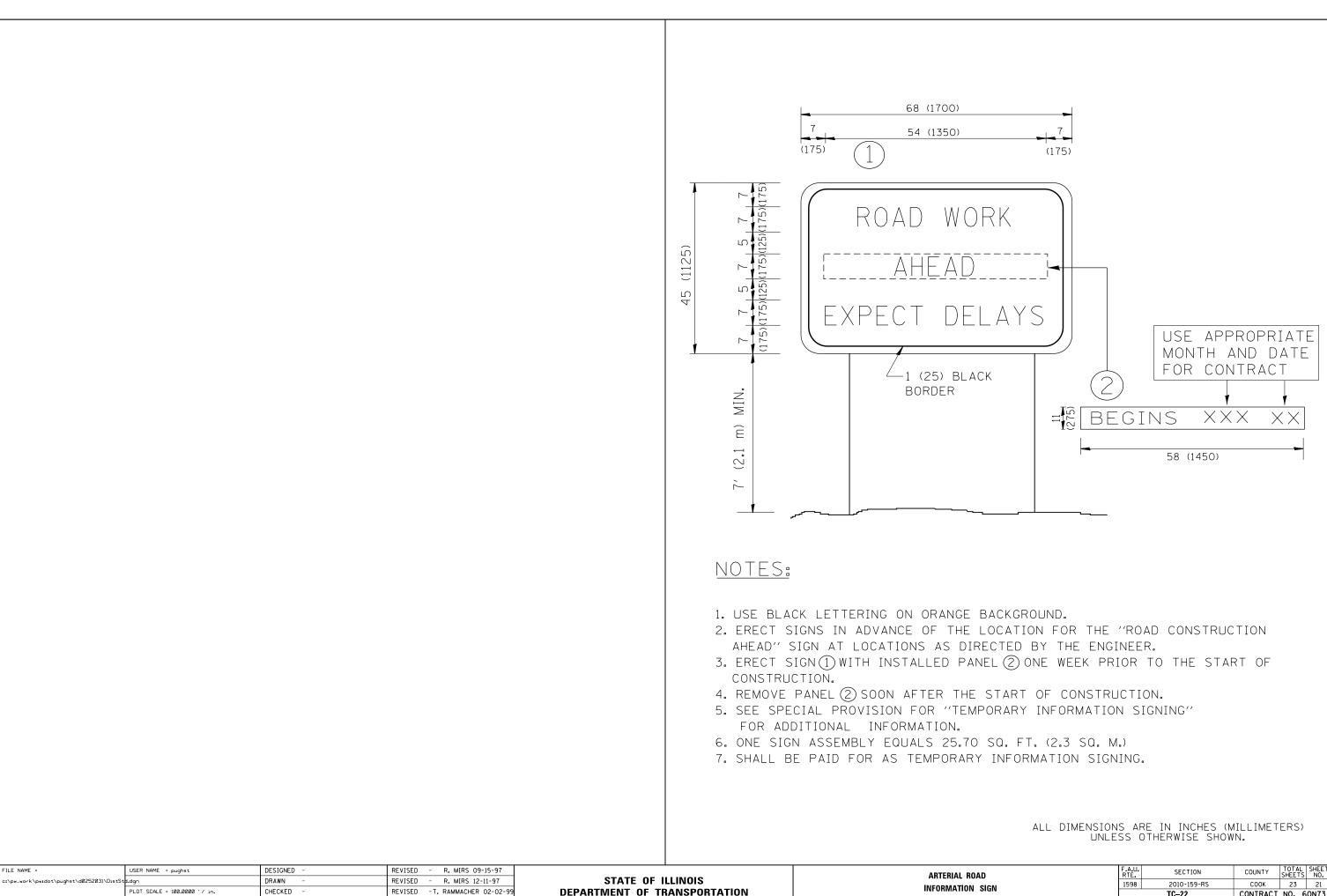
All dimensions are in inches (millimeters) unless otherwise shown.



FILE NAME = c:\pw_work\pwidot\pughst\d0252031\DistSt	USER NAME = pughst d.dgn	DESIGNED - DRAWN -	REVISED -T. RAMMACHER 06-05-96 REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS		PAVEMENT MARKING LETTERS
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION		FOR TRAFFIC STAC
	PLOT DATE = 10/22/2012	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS

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

ERS AND SYMBOLS Staging			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			1598	2010-159-RS	СООК	23	20	
	TAGING			TC16	CONTRACT	NO. 6	ON73	
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



PLOT DATE = 10/22/2012

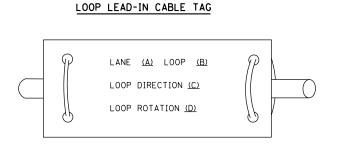
DATE

REVISED - C. JUCIUS 01-31-07

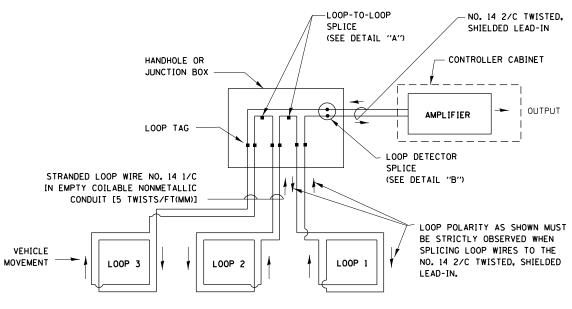
ROAD N_SIGN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			1598	2010-159-RS	СООК	23	21	
			TC-22		CONTRACT	NO. 6	ON73	
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

LOOP DETECTOR NOTES

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

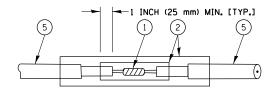


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), 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.



DETAIL "A" LOOP-TO-LOOP SPLICE

(2)(6)s¥£ ₲

LOOP-TO-LOOP SPLICE

DETAIL "A"

LOOP DETECTOR SPLICE

 \bigcirc western union splice soldered with rosin core flux. All exposed surfaces \bigcirc of the solder shall be smooth.

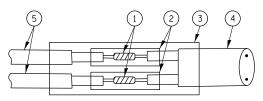
(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

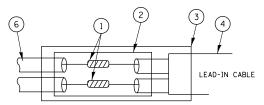
XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = pughst	DESIGNED - DAD	REVISED -			DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\pughst\d0252031\DistS1	id.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		1598	2010-159-RS	СООК	23 22
	PLOT SCALE = 100.0000 ' / 10.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS05	CONTRACT	T NO. 60N73
	PLOT DATE = 10/22/2012	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED.		AID PROJECT			



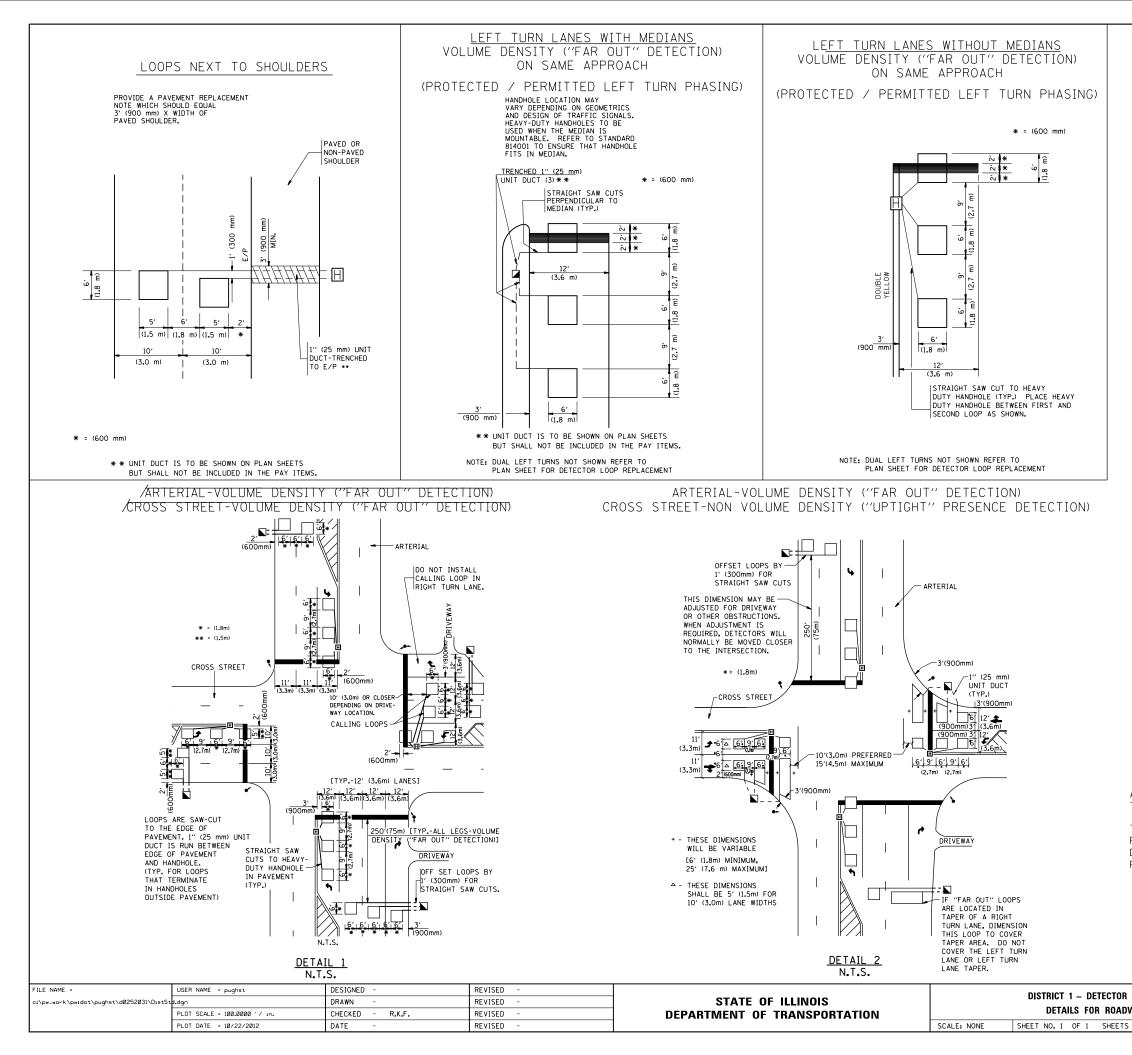
DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE



NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

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

NOTE:

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

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

LOOP INSTALLATION Way resurfacing			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			1598	2010-159-RS	СООК	23	23		
~~/	WAT RESURFACING			TS-07 CONTRACT			NO. 60N73		
	STA.	TO STA.	FED. RC	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					