01-20-2017 LETTING ITEM 021

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

(56&0)03)RS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGE OF NILES

TRAFFIC DATA: 2014 ADT = 4,750 POSTED SPEED LIMIT = 35 MPH

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 3519: HARTS RD. MILWAUKEE AVE, TO CRONAME RD.

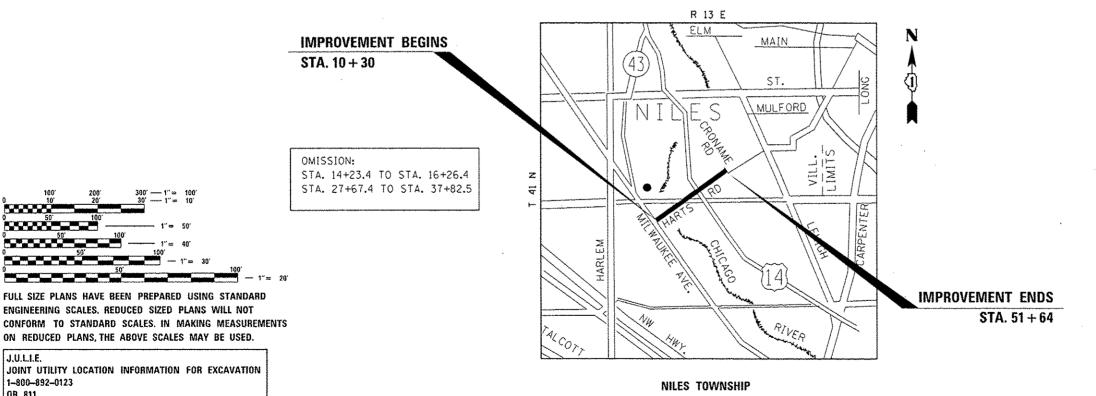
SECTION: (66&0103)RS

PROJECT: ACM-3519(001)

RESURFACING (3P), PEDESTRIAN RAMPS

COOK COUNTY

C-91-439-16



STATE OF ILLINOIS SUBMITTED October 20

LOCATION OF SECTION INDICATED THUS:

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER KARI SMITH (847) 705-4437 PROJECT MANAGER FAWAD AQUEEL (847) 705-4247

GROSS LENGTH = 4,134 FT. = 0.78 MILE NET LENGTH = 2,915.9 FT. = 0.55 MILE

CONTRACT NO. 62D21

1-800-892-0123

OR 811

 \bigcirc

INDEX OF SHEETS

SHEET NO. DESCRIPTION

- 1 TITLE SHEET
- INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
- 3 5 SUMMARY OF QUANTITIES
- 6 7 TYPICAL SECTIONS
- 3 9 ROADWAY AND PAVEMENT MARKING PLANS
- 10 19 PROPOSED SIDEWALK RAMP DETAILS
- 20 21 DETECTOR LOOP REPLACEMENT PLANS
 - 22 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
 - 3 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
 - 24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
 - 25 BUTT JOINT AND HMA TAPER DETAILS (BD-32)
 - 26 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
 - 27 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
 - 28 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
 - TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
 - SO SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
 - 31 ARTERIAL ROAD INFORMATION SIGN (TC-22)
 - 32 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL, SHEET 1 OF 6
 - 33 DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-O7)

STATE HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-02	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-04	FRAMES AND LIDS TYPE 1
604091-03	FRAME AND GRATE TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-07	URBAN LANE CLOSURE, 2L. 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES

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 SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF NILES.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- 6. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE RESIDENT ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER/TECHNICIAN.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 12. FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- 13. 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 1V:3H.
- 14. 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.
- 15. THE RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, ARTERIAL TRAFFIC FIELD ENGINEER VIA E-MAIL AT CORY.JUCIUS@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 16. 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 RESIDENT ENGINEER.
- 17. 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.
- 18. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DETECTOR LOOPS DAMAGED DURING CONSTRUCTION.

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	PLOT DATE = 19/28/2016	DATE -	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID	PROJECT

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20200100	EARTH EXCAVATION	CU YD	19	19				***************************************		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	3731	3731							
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21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	147	147			***************************************		teament-re-reason-re-vicini verver	42400800	DETECTABLE WARNINGS	SO FT	358	358							
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3			AT THE PARTY OF TH	and the state of t		44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	541	541							
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	3	3		***************************************				44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	12393	12393				***************************************			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3				10 mm	And the second s	44000600	SIDEWALK REMOVAL	SO FT	3731	3731				artenand state to the state of			
25200110	SODDING, SALT TOLERANT	SO YD	147	147		Assessment of the second of th		or and the second of the secon		44201777	CLASS D PATCHES, TYPE II, 11 INCH	SO YD	550	550							
25200200	SUPPLEMENTAL WATERING	TINU	4	4			***************************************			44201781	CLASS D PATCHES, TYPE III, 11 INCH	SO YD	230	230							
23200200	JULY LEBERTAL WATERING	0.17	-									maken all part of the state of		***************************************							
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8609	8609	=					44201783	CLASS D PATCHES, TYPE IV. 11 INCH	SO YD	500	500							
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	20	20				<u> </u>		48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	33	33							
	FLANGEWAYS		Color	-						***		****			····						
										60250200	CATCH BASINS TO BE ADJUSTED	EACH	7	7							
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	512	512				-	and the state of t				THE PROPERTY OF THE PROPERTY O								
	METHOD), IL-4.75, N50		reference of the second					enther they are the control of the c		60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1							
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	256	256						60255500	MANHOLES TO BE ADJUSTED	EACH	2	2							
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		701	1007	1007				Average		60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1							
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1087	1087		V-general target and the second	-	And and a second a		60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2	:	***************************************					
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42001300	PROTECTIVE COAT	SO YD	766	766						60404950	FRAMES AND GRATES, TYPE 24	EACH	3	3							
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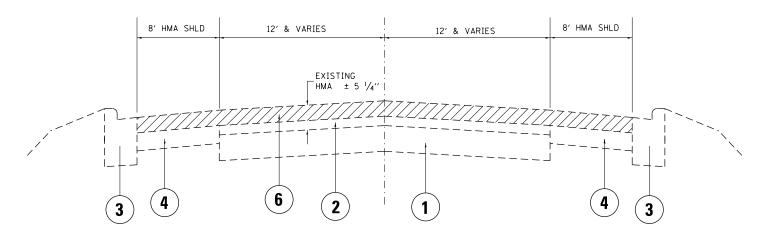
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6040	06000	FRAMES AND LIDS. TYPE 1. OPEN LID	EACH	3	3					11111111111111111111111111111111111111	70300210	TEMPORARY PA	VEMENT MARKING LETTERS AND	SO FT	198	198				**************************************	
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6040	06100	FRAMES AND LIDS, TYPE 1. CLOSED LID	EACH	3	3																
											70300220	TEMPORARY PA	VEMENT MARKING - LINE 4"	FOOT	8332	8332					
* 6690	00200	NON-SPECIAL WASTE DISPOSAL	CU YD	19	19										<u></u>			·····			
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* 6690	00450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1		ļ														
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4 6690	00530	SOIL DISPOSAL ANALYSIS	EACH	3	3						100000000000000000000000000000000000000		· · · · · · · · · · · · · · · · · · ·	**************************************				***************************************			
							BARRET CANADA				70300280	TEMPORARY PA	VEMENT MARKING - LINE 24"	FOOT	143	143					
670	00400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		***************************************	-									de se estado de composições de compo				
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6710	00100	MOBILIZATION	LSUM	1	1		***************************************	<u> </u>			78000100	THE DUOD! ACT!	C PAVEMENT MARKING -	SO FT	198	198					
701	00000	TRACELO CONTROL ANO RROTCOTION	: Ciba					<u> </u>			* 78000100	LETTERS AND	· · · · · · · · · · · · · · · · · · ·	30 71	196	136					
7011	02620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM		ı		<u> </u>	-				LL, ILIO AND	Jimbuta								
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701	02622	TRAFFIC CONTROL AND PROTECTION,	LSUM	•	1						* Attached to the state of the			**************************************							
		STANDARD 701502							 		★ 78000400	THERMOPLASTI	C PAVEMENT MARKING - LINE 6"	FOOT	1255	1255					
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701	02635	TRAFFIC CONTROL AND PROTECTION,	LSUM	1	1		Name of the second seco			1	18000600	THERMOPLAST1	C PAVEMENT MARKING - LINE 12"	FOOT	222	222					
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701	02640	TRAFFIC CONTROL AND PROTECTION.	LSUM	***************************************	*				The state of the s												
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703	00100	SHORT TERM PAVEMENT MARKING	FOOT	2155	2155	***************************************					78300200		CTIVE PAVEMENT MARKER	EACH	115	115					
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*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	1109	1109											1				
*	89502376	REBUILD EXISTING HANDHOLE	EACH	7	7				all of the second secon	100										
*	89502378	REBUILD EXISTING HANDHOLE TO HEAVY-DUTY	EACH	2	2					***************************************					-			-		
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	x0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	-	1				and the second s					Market						
	X0327980	PAVEMENT MARKING REMOVAL - WATER	SO FT	5682	5682															
		BLASTING																		
	X2020110	GRADING AND SHAPING SHOULDERS	UNIT	16.4	16.4															
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П	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	290	290															
	x6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	19	19						1100 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	····								And Anticology of the Control of the
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ם	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	29	29													anne esta de constitución de c		***************************************
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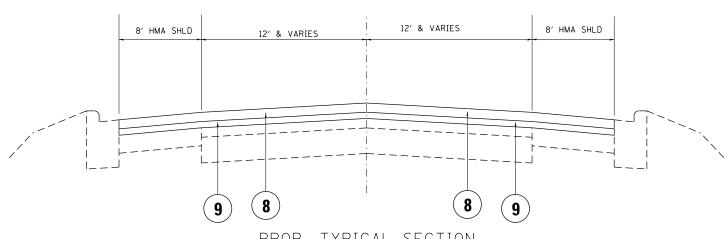
HARTS ROAD



EXIST. TYPICAL SECTION

STA. 10+30 TO STA. 14+23.4 STA. 16+26.4 TO STA. 18+50 STA. 25+95 TO STA. 31+02 STA. 32+50 TO STA. 51+64

HARTS ROAD



PROP. TYPICAL SECTION

STA. 10+30 TO STA. 14+23.4 STA. 16+26.4 TO STA. 18+50 STA. 25+95 TO STA. 31+02 STA. 32+50 TO STA. 51+64

LEGEND

- 1) EXISTING P.C.C PAVEMENT, ± 8"
- (2) EXISTING HMA SURFACE AFTER MILLING, ± 3"
- (3) EXISTING COMB. CONCRETE CURB & GUTTER
- 4) EXISTING HMA SHOULDER
- (5) EXISTING AGGREGATE SHOULDER
- (6) PROPOSED HMA SURFACE REMOVAL, 2 1/4"
- 7) PROPOSED HMA SURFACE REMOVAL, 1 1/2"
- (8) PROPOSED HMA SURFACE COURSE, MIX "D", N70, $1 \frac{1}{2}$ "
- 9 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, $\frac{3}{4}$ "
- (10) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PROPOSED GRADING AND SHAPING SHOULDERS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QMP
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ROADWAY RESURFACING:

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% AT 70 GYR.	QCP
POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	QC / QA

PARKING LANE RESURFACING:

*	HOT-MIX ASPHALT SURFACE	4% AT 70 GYR.	QC / QA
	COURSE, MIX "D", N7O (IL 9.5 mm)		Ī

HOT-MIX ASPHALT PATCHING:

CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.	QC / QA
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QMP Designation: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PFP)

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/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 MATERIALS SEE SPECIAL PROVISIONS.

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

SCALE:

THE CONTRACTOR SHALL MILL THE ROADWAY FIRST, THEN DO PAVEMENT PATCHING PER BD-22 DETAIL.

WHERE GUARDRAILS ARE PRESENT ON HMA SHOULDER THE MILLING AND RESURFACING LIMIIT SHALL BE A MINIMUM OF ONE FOOT AWAY FROM THE GUARDRAIL FACE.

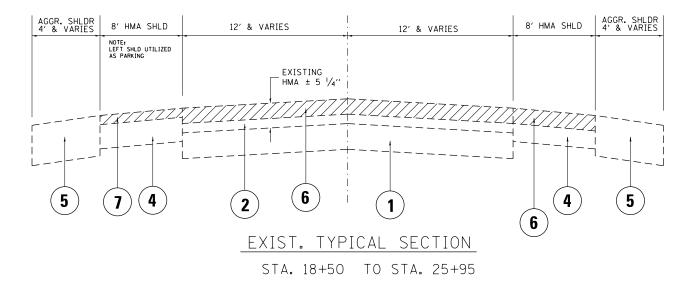
st THE HMA MIXTURE USED FOR THIS APPLICATION SHALL MEET MINIMUM QC / QA TESTING REQUIREMENTS IN ACCORDANCE WITH ART. 1030 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	
pw:\\IL084EBIDINTEG.:111:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D143	91 BR0AND 9ata\Design\D143916-sht-plan.dgn	REVISED -	STATE OF ILLINOI
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSP
	PLOT DATE = 10/20/2016	DATE -	REVISED -	

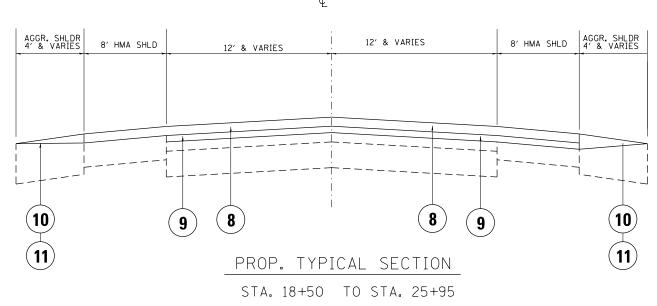
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

HARTS RD (MILWAUKEE AVE. TO CRONAME RD.)							F.A.U. RTE.	SEC.	TION	COUNTY	TOTAL SHEETS	SHEE1	
	,						3519	(66&01)	03)RS	COOK	33	6	
											CONTRACT	NO. 6	2D21
	SHEET	NO.	OF	SHEETS	STA.	TO	STA.	FED. RO	AD DIST. NO.	ILLINOIS FED. A	D PROJECT		

HARTS ROAD



HARTS ROAD ¢



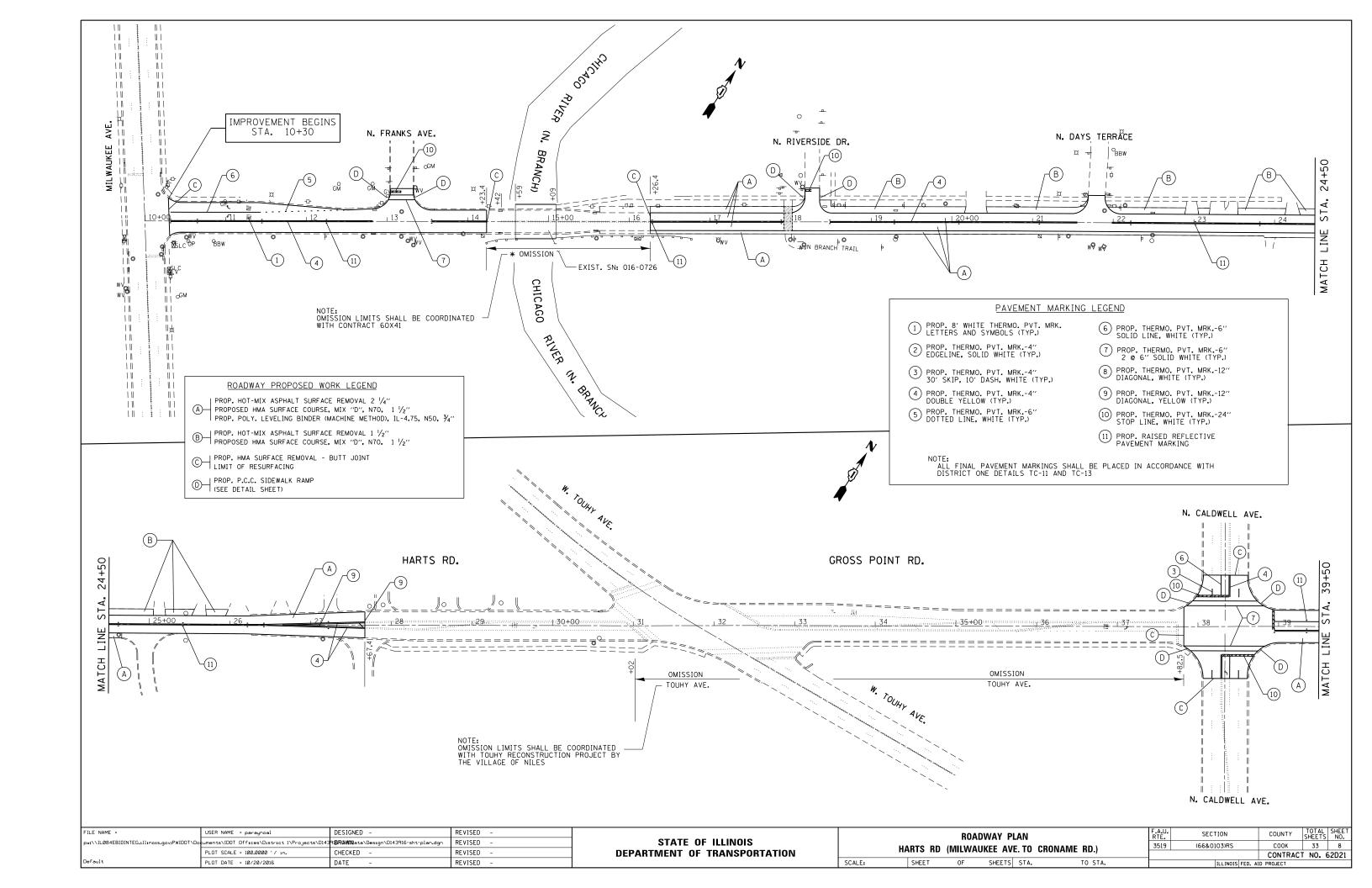
LEGEND

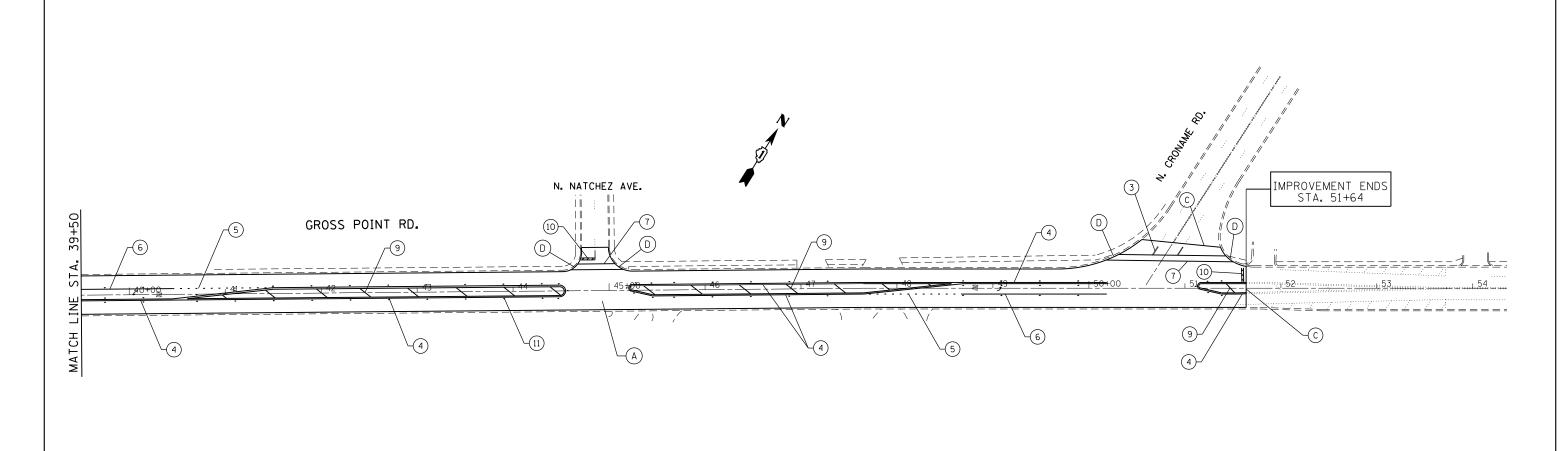
- 1) EXISTING P.C.C PAVEMENT, ± 8"
- 2 EXISTING HMA SURFACE AFTER MILLING, ± 3"
- (3) EXISTING COMB. CONCRETE CURB & GUTTER
- (4) EXISTING HMA SHOULDER
- (5) EXISTING AGGREGATE SHOULDER
- 6) PROPOSED HMA SURFACE REMOVAL, 2 1/4"
- 7) PROPOSED HMA SURFACE REMOVAL, 1 1/2"
- 8 PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
- 9 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (10) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (11) PROPOSED GRADING AND SHAPING SHOULDERS

NOTE: THE CONTRACTOR SHALL MILL THE ROADWAY FIRST, THEN DO PAVEMENT PATCHING PER BD-22 DETAIL.

WHERE GUARDRAILS ARE PRESENT ON HMA SHOULDER THE MILLING AND RESURFACING LIMIIT SHALL BE A MINIMUM OF ONE FOOT AWAY FROM THE GUARDRAIL FACE.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -			HARTS RD (MILWAUKEE AVE. TO CRONAME RD.)	F.A.U. RTF.	SECTION	COUNTY TOTAL SHEET
pw:\\IL084EBIDINTEG.ıllınoıs.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D1	-	REVISED -	STATE OF ILLINOIS			3519	(66&0103)RS	COOK 33 7
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 62D21
	PLOT DATE = 10/20/2016	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A	





ROADWAY PROPOSED WORK LEGEND

- ©—| PROP. HMA SURFACE REMOVAL BUTT JOINT LIMIT OF RESURFACING
- PROP. P.C.C. SIDEWALK RAMP (SEE DETAIL SHEET)

PAVEMENT MARKING LEGEND

- 1 PROP. 8' WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)
- 2 PROP. THERMO. PVT. MRK.-4" EDGELINE, SOLID WHITE (TYP.)
- 3 PROP. THERMO. PVT. MRK.-4"
 30' SKIP, 10' DASH, WHITE (TYP.)
- PROP. THERMO. PVT. MRK.-4"
 DOUBLE YELLOW (TYP.)
- 5 PROP. THERMO. PVT. MRK.-6"
 DOTTED LINE, WHITE (TYP.)
- 6 PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
- 7 PROP. THERMO. PVT. MRK.-6" 2 @ 6" SOLID WHITE (TYP.)
- 8 PROP. THERMO. PVT. MRK.-12" DIAGONAL, WHITE (TYP.)
- 9 PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)
- 10 PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)
- 11) PROP. RAISED REFLECTIVE PAVEMENT MARKING

NOTE: ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -				RΛΔΓ	DWAY P	ΙΔΝ		F.A.U.	SECTION	COUNTY	TOTAL	SHEET
pw:\\ILØ84EBIDINTEG.:111:no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D14	391 BR0AWIN ata\Design\D143916-sht-plan.dgn	REVISED -	STATE OF ILLINOIS		ADTO DD				NIABE DD	3519	(66&0103)RS	СООК	33	9
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	н	IAKIS KD	(WILWAL	JKEE AV	E. IO CRU	DNAME RD.)	00.0		CONTRAC	T NO.	62D21
Default	PLOT DATE = 10/20/2016	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

HARTS ROAD INTERSECTION	EARTH EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SODDING, SALT TOLERANT	SUPPLEMENTAL WATERING	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNINGS	SIDEWALK REMOVAL	MANHOLES TO BE ADJUSTED	VALVE BOXES TO BE ADJUSTED	REBUILD EXISTING HANDHOLE	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
	CU YD	SQ YD	POUND	POUND	POUND	SQ YD	UNIT	SQ FT	SQ FT	SQ FT	EACH	EACH	EACH	FOOT
	20200100	21101615	25000400	25000500	25000600	25200110	25200200	42400200	42400800	44000600	60255500	60266600	89502376	Z0004562
MILWAUKEE AVE (IL 21)	7.0	0.0	0.0	0.0	0.0	0.0	0.0	1281	126	1281	0	0	4	144
FRANKS AVE	2.7	18.8	0.5	0.5	0.5	18.8	0.8	397	23	397	0	0	0	20
RIVERSIDE DR	1.0	5.9	0.2	0.2	0.2	5.9	0.2	271	57	271	1	0	0	30
TOUHY AVE (OMISSION)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALDWELL AVE (US 14)	3.7	35.9	0.9	0.9	0.9	35.9	1.5	830	101	806	1	0	1	104
NATCHEZ AVE	1.5	9.7	0.2	0.2	0.2	9.7	0.4	240	19	221	0	0	0	28
CRONAME AVE	3.1	16.7	0.5	0.5	0.5	16.7	0.7	388	32	355	0	1	0	67
TOTAL	19	87	2.3	2.3	2.3	87	3.6	3407	358	3331	2	1	5	393

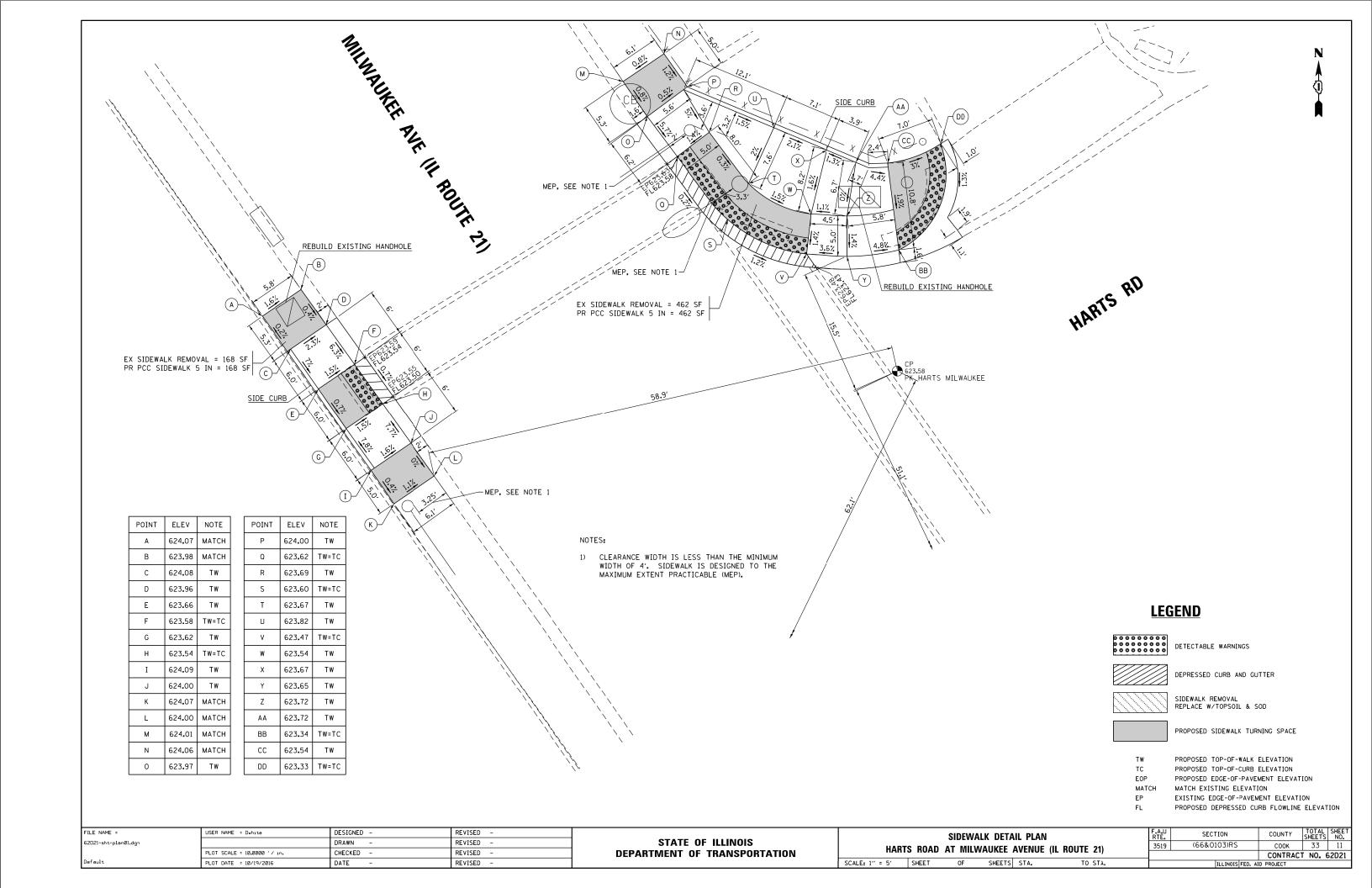
NOTE: RESTORATION (SODDING, NUTRIENTS AND TOPSOIL) LIMITS ARE SHOWN ON THE SITE PLANS WHEN SIDEWALK IS REMOVED AND REPLACED WITH SOD. HOWEVER, FOR RESTORATION AROUND NEW SIDEWALK, QUANTITY HAS BEEN PROVIDED BUT IS NOT SHOWN ON THE SITE PLANS.

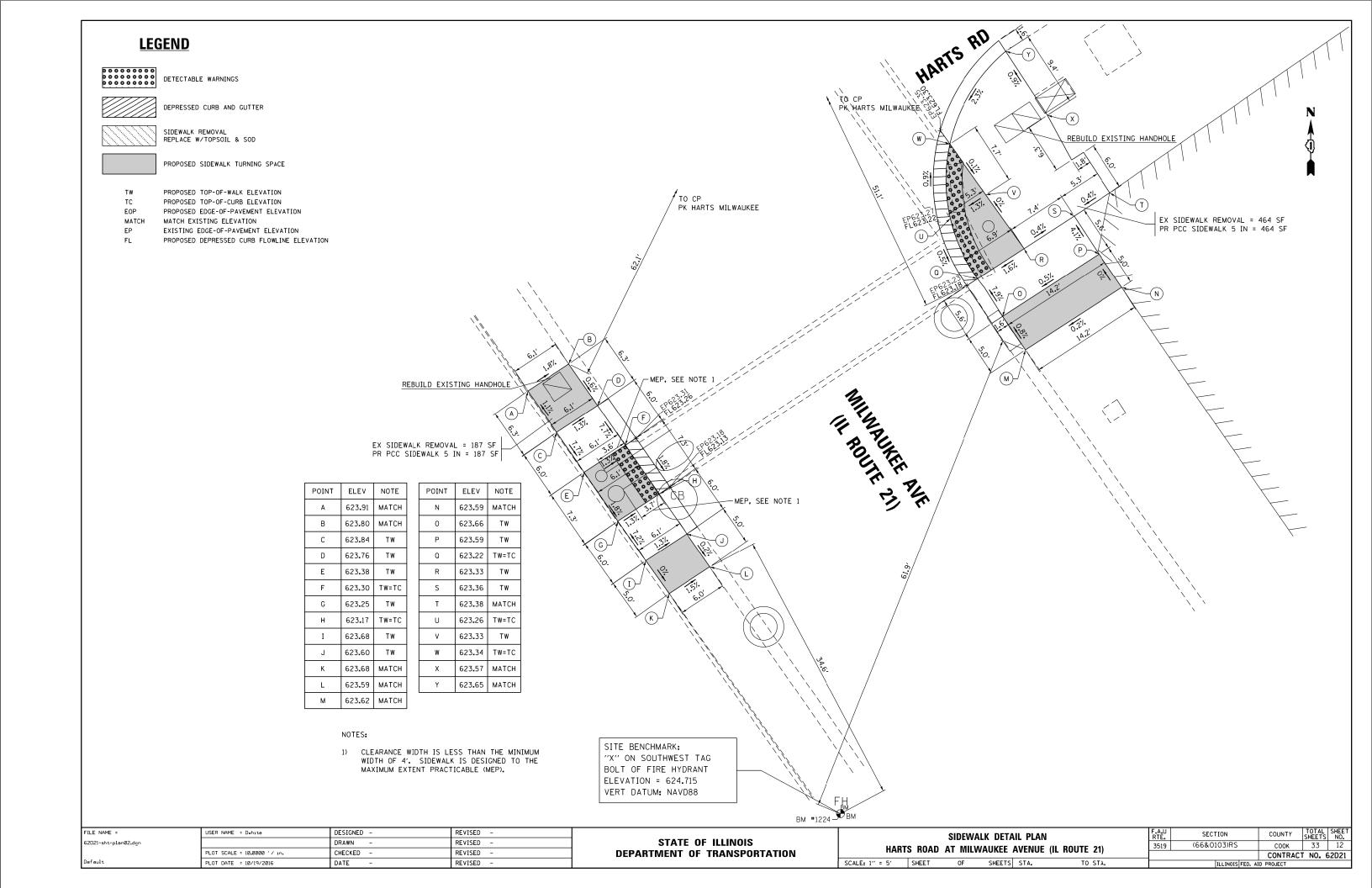
FILE NAME =	USER NAME = Dwhite	DESIGNED -	REVISED -
62D21-sht-S0001.dgn		DRAWN -	REVISED -
	PLOT SCALE = 2.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 10/19/2016	DATE -	REVISED -
		52	

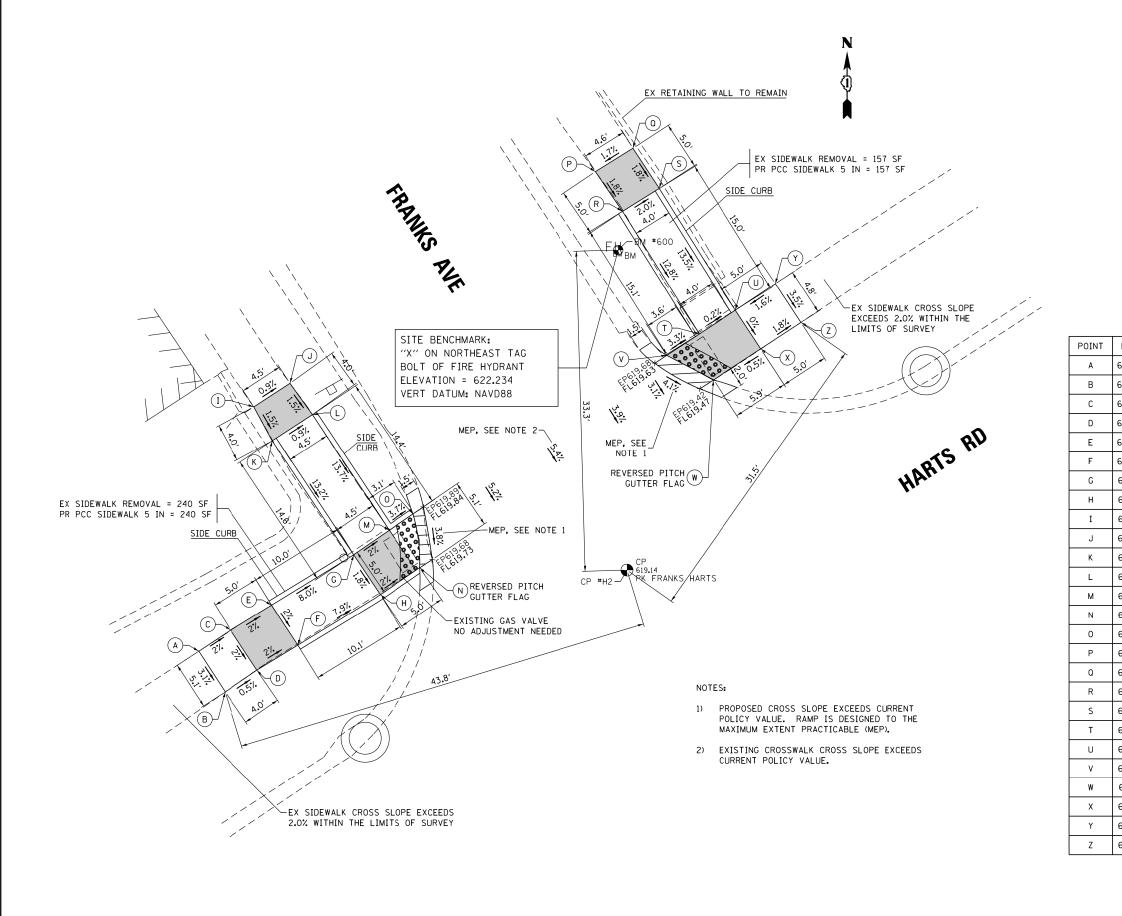
STATE O	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

						OF QUANTITIES CRONAME AVE
SCALE:	S	HEET	OF	SHEETS	STA.	TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEI NO
3519	(66&0103)RS	COOK	33	10
		CONTRACT	NO. 6	52D2
	ILLINOIS FED. A	D PROJECT		







FILE NAME =

62D21-sht-plan03.dgn

USER NAME = Dwhite

PLOT SCALE = 10.0000 '/ 10.

PLOT DATE = 10/19/2016

DESIGNED -

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

LEGEND





DEPRESSED CURB AND GUTTER



SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD



PROPOSED SIDEWALK TURNING SPACE

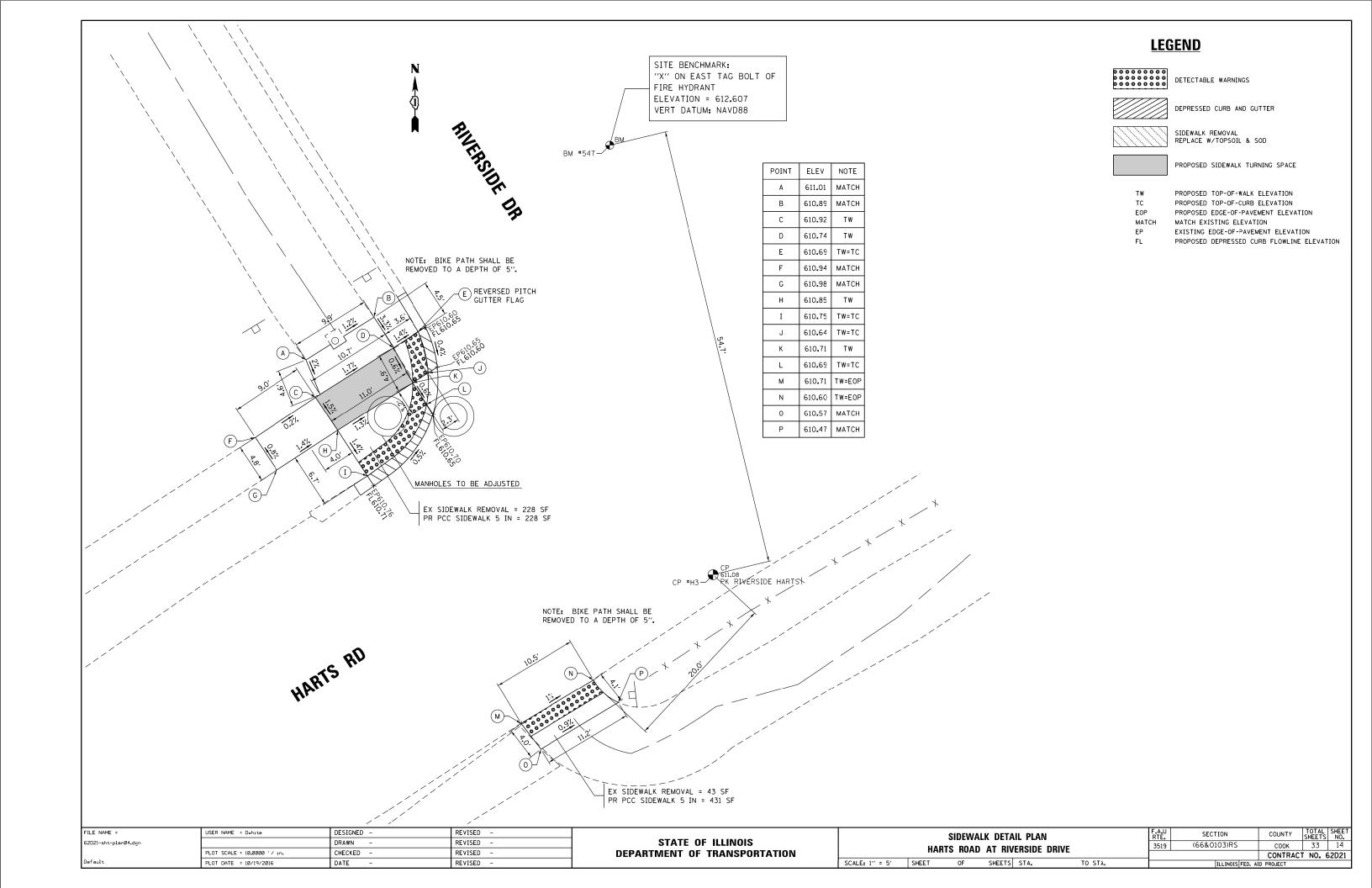
PROPOSED TOP-OF-WALK ELEVATION TC PROPOSED TOP-OF-CURB ELEVATION EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION

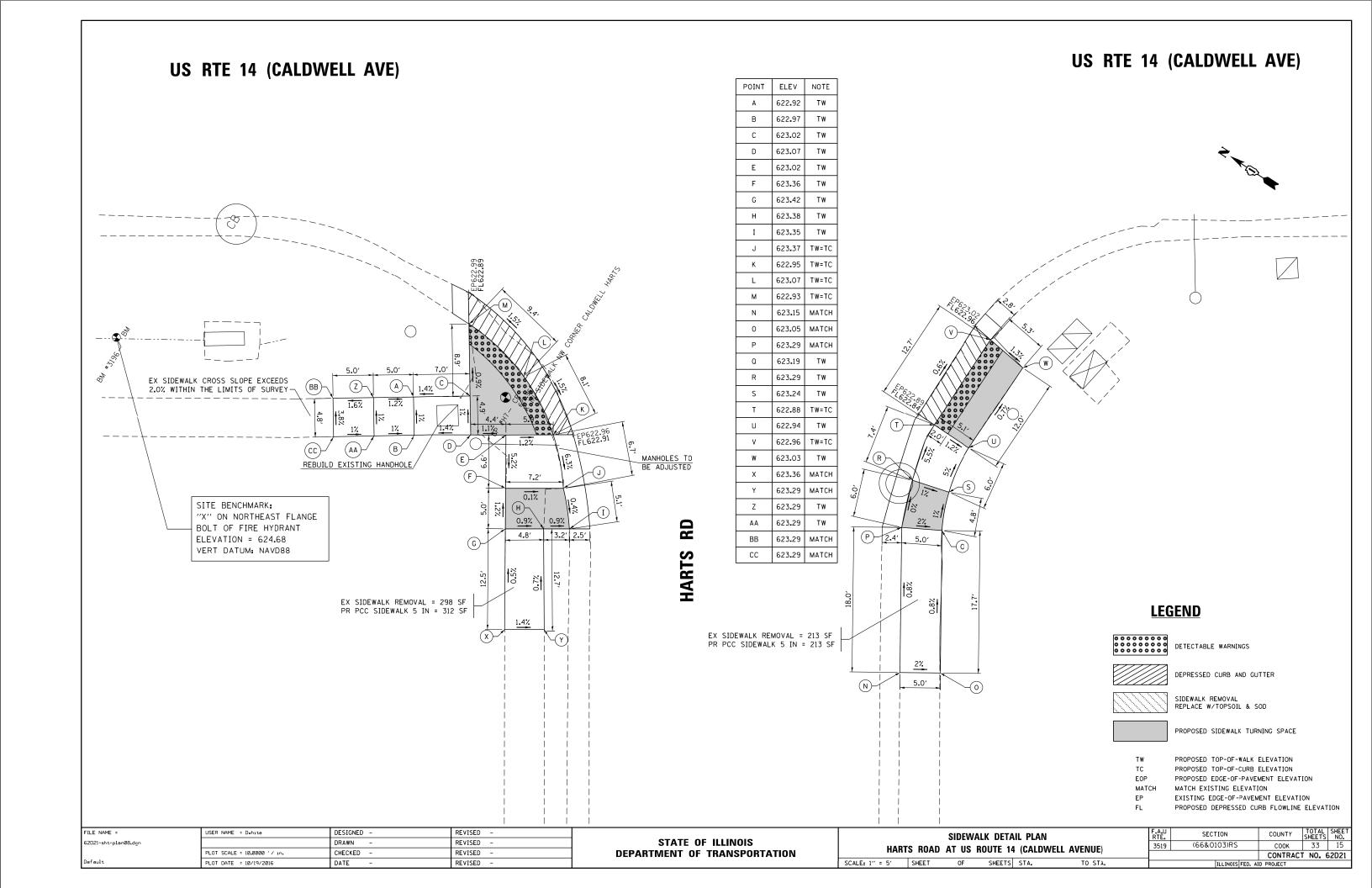
MATCH MATCH EXISTING ELEVATION EΡ

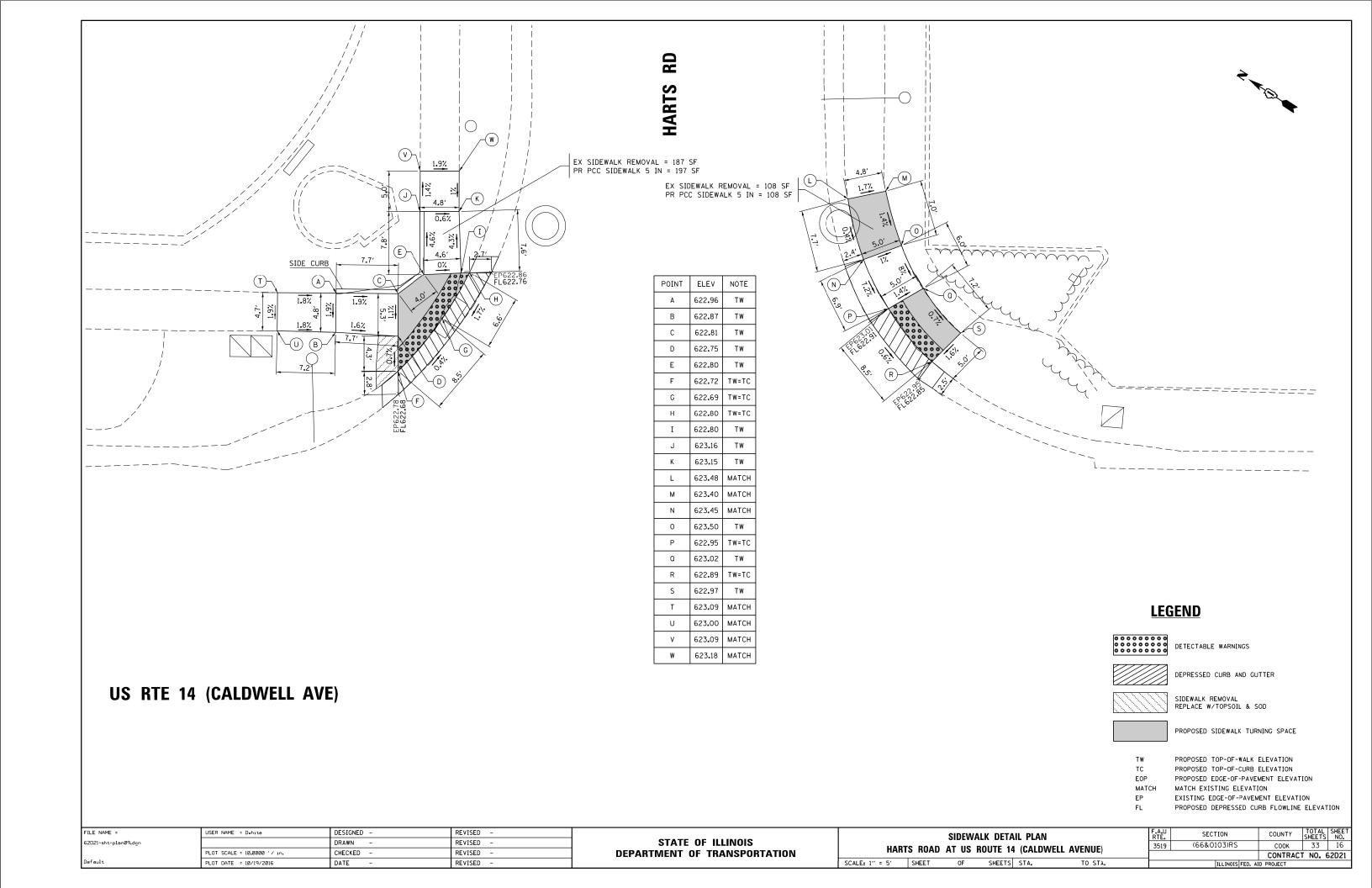
EXISTING EDGE-OF-PAVEMENT ELEVATION PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

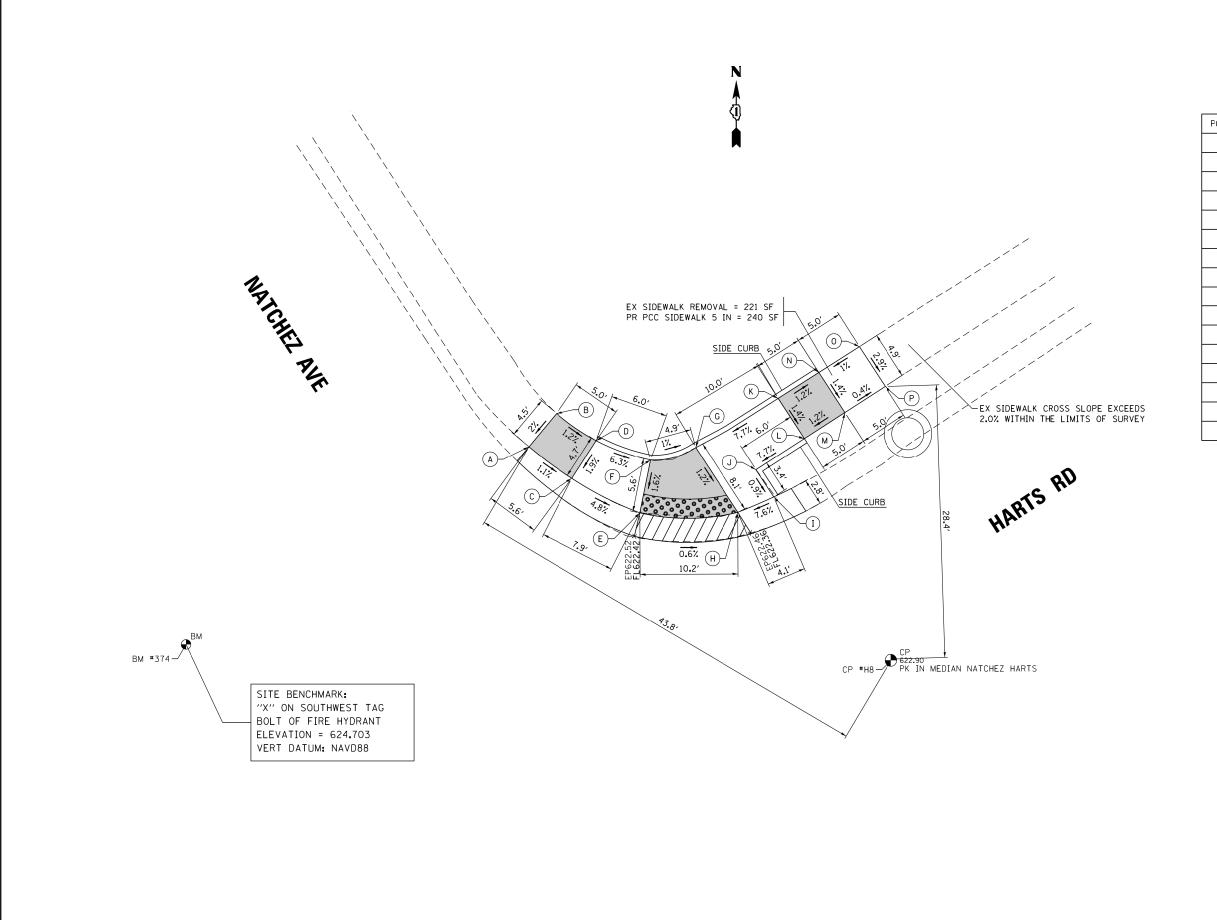
POINT	ELEV	NOTE	
Α	620.85	матсн	
В	620.69	матсн	
С	620.77	TW	
D	620.67	TW	
E	620.67	TW	
F	620.57	TW	
G	619.86	TW	
Н	619.77	TW	
I	621.84	матсн	
J	621.80	матсн	
K	621.78	TW	
L	621.74	TW	
М	619.77	TW	
N	619.77	TW=TC	
0	619.88	TW=TC	
Р	621.57	матсн	
Q	621.65	матсн	
R	621.48	TW	
S	621.56	TW	
Т	619.55	TW	
U	619.54	TW	
٧	619.67	TW=TC	
W	619.51	TW=TC	
Х	619.54	TW	
Y	619.62 MATCH		
Z	619.45	матсн	

SIDEWALK DETAIL PLAN						RTE.	SECTION	COUNTY	SHEETS	NO.	
I		HART	S ROAI	AT FR	ANKS A	VENUE	3519	(66&0103)RS	соок	33	13
l		IIAIII	3 HOAL	7 71 110	TINING P	VENUE			CONTRAC	T NO. 6	52D21
l	SCALE: 1" = 5'	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		









POINT	ELEV	NOTE
Α	622.90	матсн
В	622.99	матсн
С	622.84	TW
D	622.93	TW
Ε	622.46	TW=TC
F	622.55	TW
G	622.50	TW
Н	622.40	TW=TC
I	622.71	TW
J	622.74	TW
K	623.27	TW
L	623.20	TW
М	623.26	TW
N	623.33	TW
0	623.38	матсн
Р	623.24	матсн

LEGEND

DETECTABLE WARNINGS



DEPRESSED CURB AND GUTTER



SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

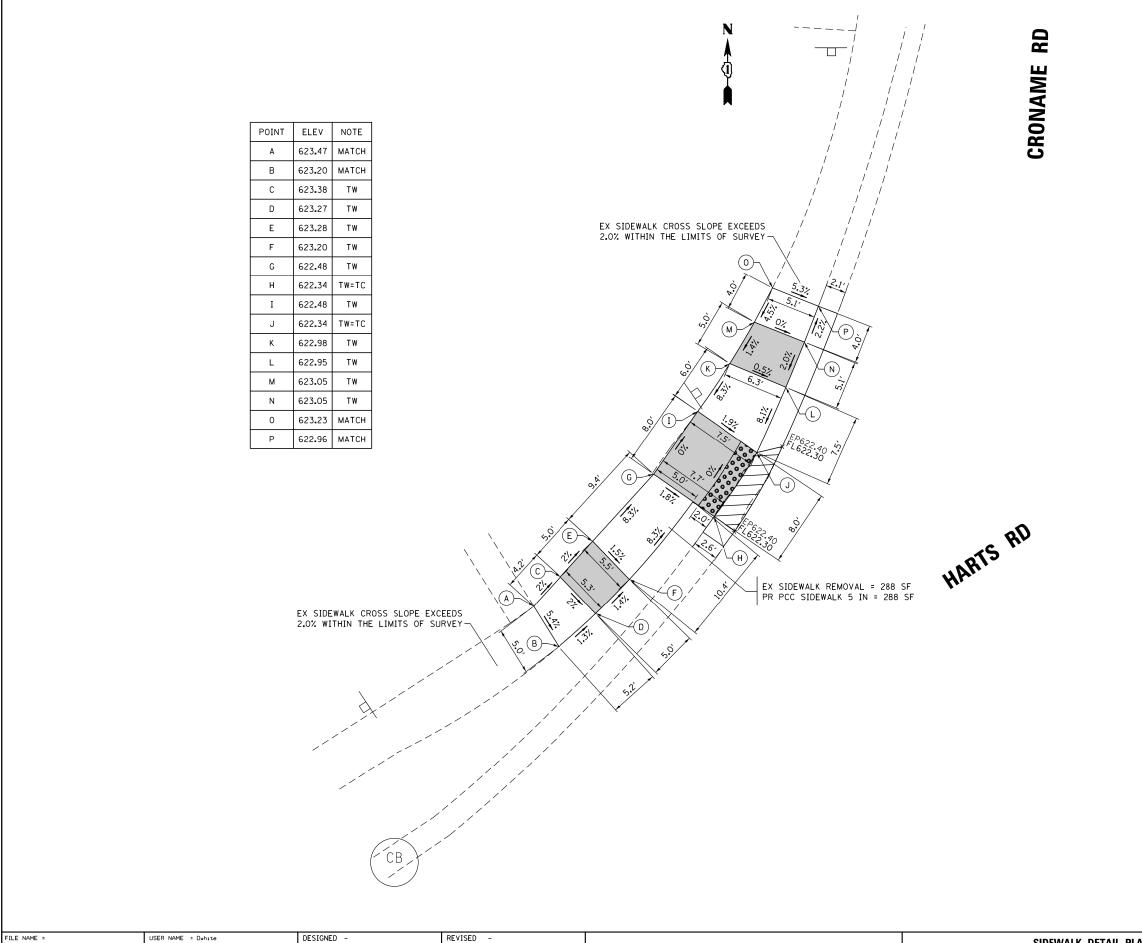
PROPOSED SIDEWALK TURNING SPACE

PROPOSED TOP-OF-WALK ELEVATION PROPOSED TOP-OF-CURB ELEVATION
PROPOSED EDGE-OF-PAVEMENT ELEVATION

MATCH EXISTING ELEVATION

EXISTING EDGE-OF-PAVEMENT ELEVATION PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

FILE NAME =	USER NAME = Dwhite	DESIGNED -	REVISED -		SIDEWALK DETAIL PLAN	F.A.U SECTION	COUNTY TOTAL SHEET
62D21-sht-plan10.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		3519 (66&0103)RS	соок 33 17
	PLOT SCALE = 10.0000 '/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	HARTS ROAD AT NATCHEZ AVENUE	*****	CONTRACT NO. 62D21
Default	PLOT DATE = 10/19/2016	DATE -	REVISED -		SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.		ID PROJECT



62D21-sht-plan11.dgn

DRAWN

DATE

CHECKED -

PLOT SCALE = 10.0000 '/ in.

PLOT DATE = 10/19/2016

REVISED

REVISED

REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

LEGEND





DEPRESSED CURB AND GUTTER



SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD





PROPOSED SIDEWALK TURNING SPACE

TC EOP

FL

TO STA.

OF SHEETS STA.

SCALE: 1" = 5' SHEET

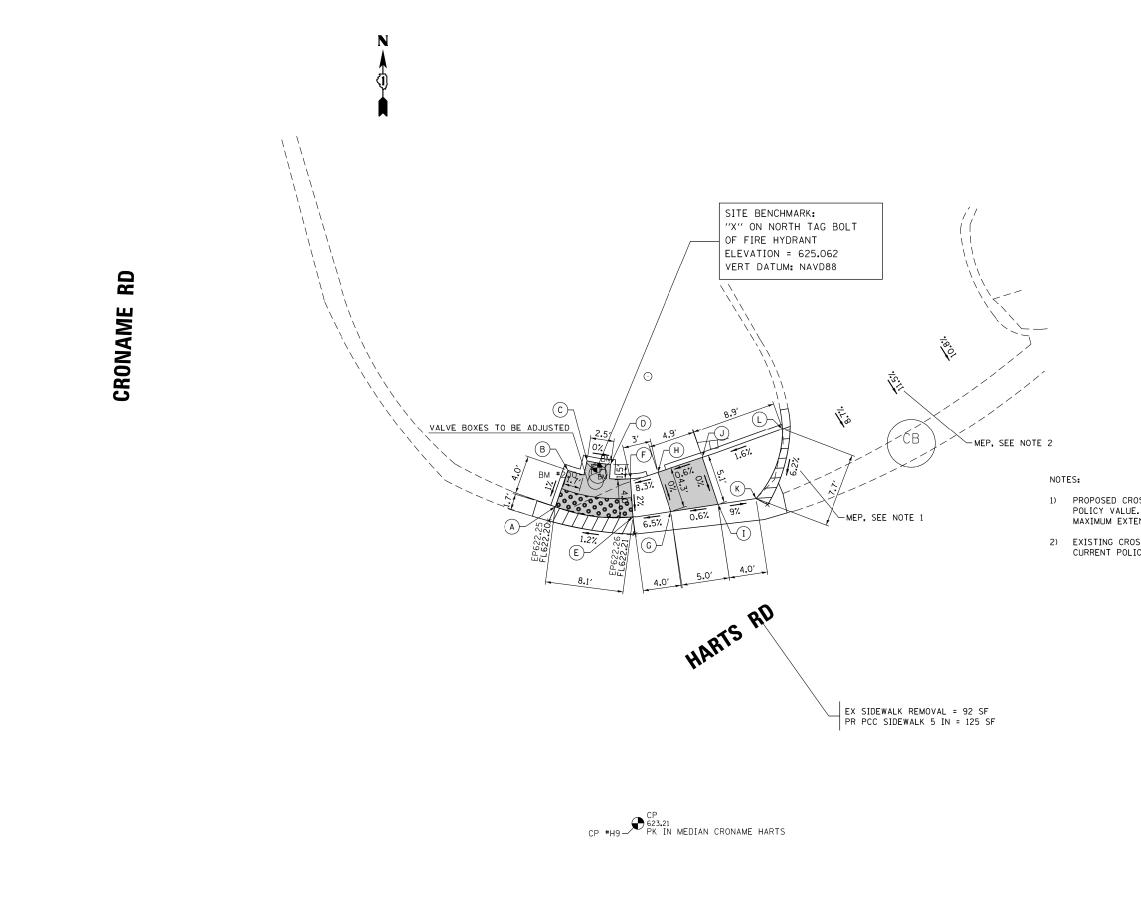
PROPOSED TOP-OF-WALK ELEVATION PROPOSED TOP-OF-CURB ELEVATION PROPOSED EDGE-OF-PAVEMENT ELEVATION MATCH EXISTING ELEVATION

MATCH EΡ

EXISTING EDGE-OF-PAVEMENT ELEVATION PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

COUNTY TOTAL SHEET NO.

COOK 33 18 SECTION SIDEWALK DETAIL PLAN (66&0103)RS HARTS ROAD AT CRONAME ROAD CONTRACT NO. 62D21



POINT	ELEV	NOTE
Α	622.24	TW=TC
В	622.28	TW
С	622.32	TW
D	622.32	TW
E	622.25	TW=TC
F	622.33	TW
G	622.58	TW
Н	622.58	TW
I	622.61	TW
J	622.61	TW
K	622.25	TW=EOP
L	622.74	TW=EOP

- 1) PROPOSED CROSS SLOPE EXCEEDS CURRENT POLICY VALUE. RAMP IS DESIGNED TO THE MAXIMUM EXTENT PRACTICABLE (MEP).
- 2) EXISTING CROSSWALK CROSS SLOPE EXCEEDS CURRENT POLICY VALUE.

LEGEND





DEPRESSED CURB AND GUTTER



SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD



PROPOSED SIDEWALK TURNING SPACE

FL

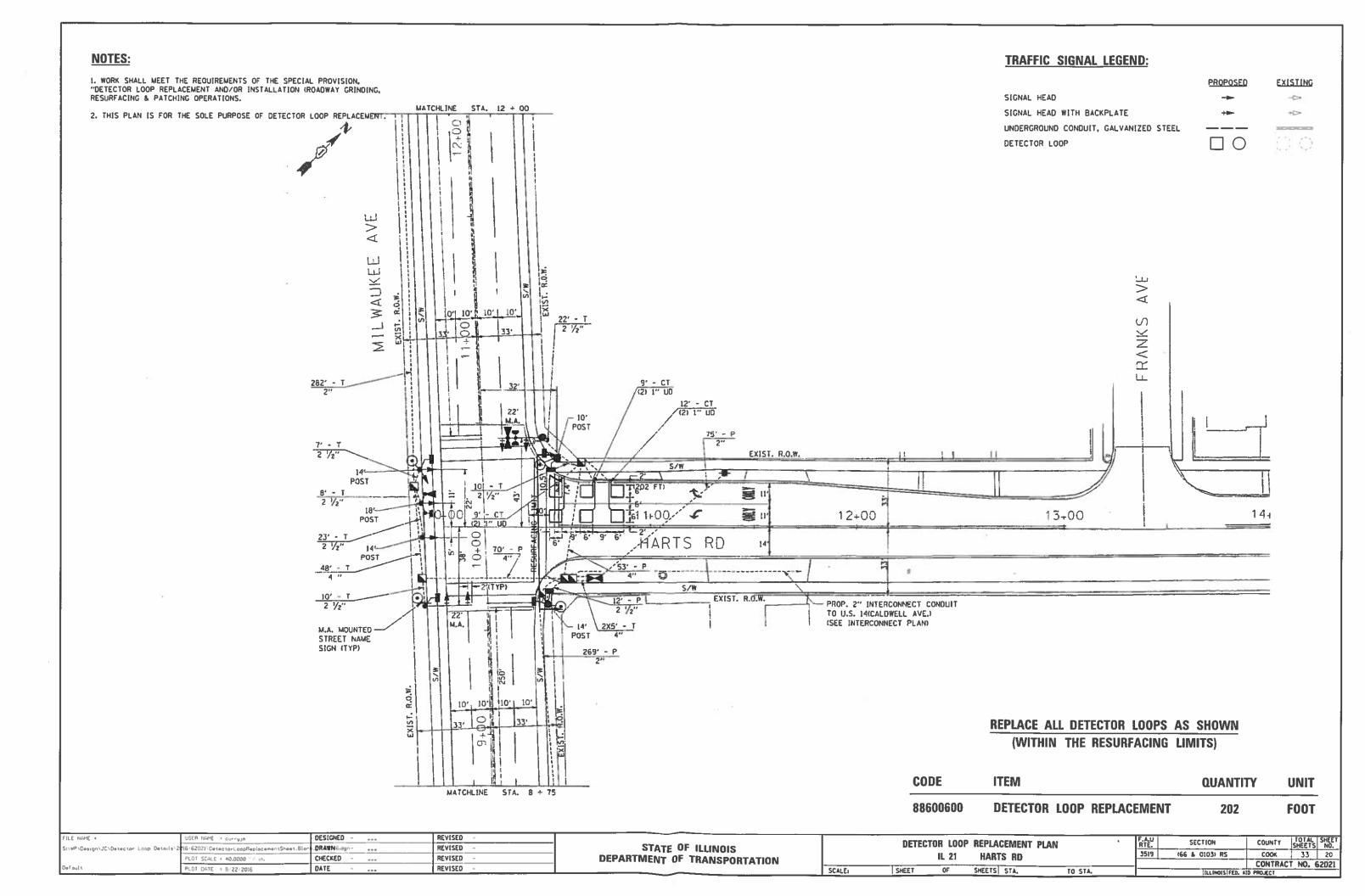
PROPOSED TOP-OF-WALK ELEVATION PROPOSED TOP-OF-CURB ELEVATION PROPOSED EDGE-OF-PAVEMENT ELEVATION

MATCH MATCH EXISTING ELEVATION

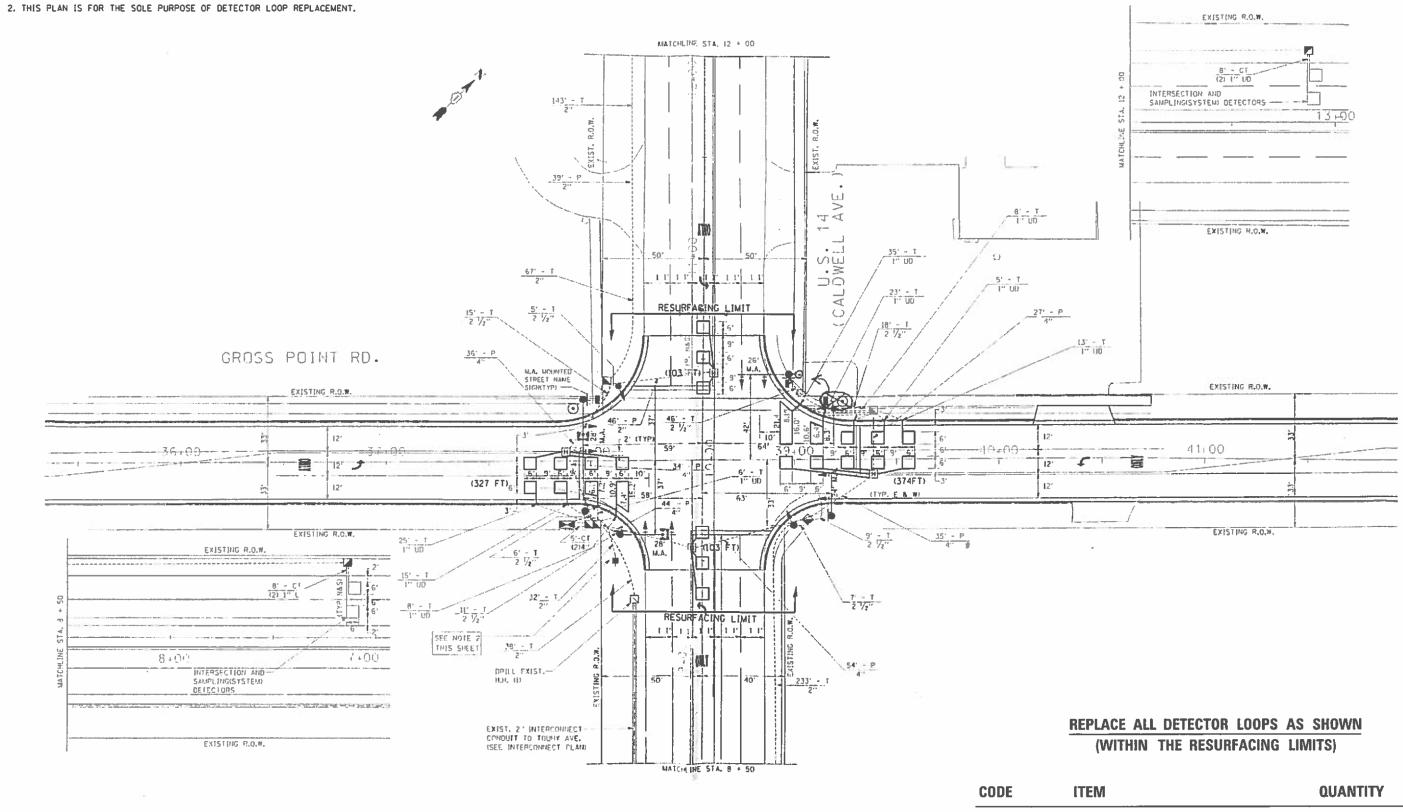
EΡ

EXISTING EDGE-OF-PAVEMENT ELEVATION
PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

FILE NAME =	USER NAME = Dwhite	DESIGNED -	REVISED -		SIDEWALK DETAIL PLAN	F.A.U SECTION	COUNTY TOTAL SHEET
62D21-sht-plan12.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		3519 (66&0103)RS	соок 33 19
	PLOT SCALE = 10.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	HARTS ROAD AT CRONAME ROAD		CONTRACT NO. 62D21
Default	PLOT DATE = 10/19/2016	DATE -	REVISED -		SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. A	ID PROJECT



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



FILE NAME .	USER NAME + curry, a	DESIGNED	REVISED			DETEC	TOR LOC	D REPLA	CEMENT DIA	\N	F.A.U	SECTION	COUNTY	TOTAL SHEET
SileP\Design JC Detector Loop Detail	2:16\62021 DetactorLoopReplacementSheet.Bla	.DRAWNS.dgn	REVISED -	STATE OF ILLINOIS	DETECTOR LOOP REPLACEMENT PLAN US 14 CALDWELL AT GROSS POINT RD			3519	166 & 01031 RS	COOK	33 21			
2.6	PLOT SCALE • 40.0000 1 7 in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION				_		CONTRA	CT NO. 62021			
Default	PLOT DATE + 8-22-2016	DATE	REVISED		SCALE1	SHEET	QF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

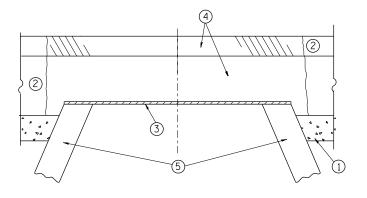
88600600

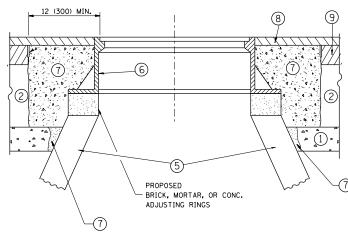
DETECTOR LOOP REPLACEMENT

UNIT

FOOT

907





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 11/2 (40)
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (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

(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 PAYEMENT. 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.

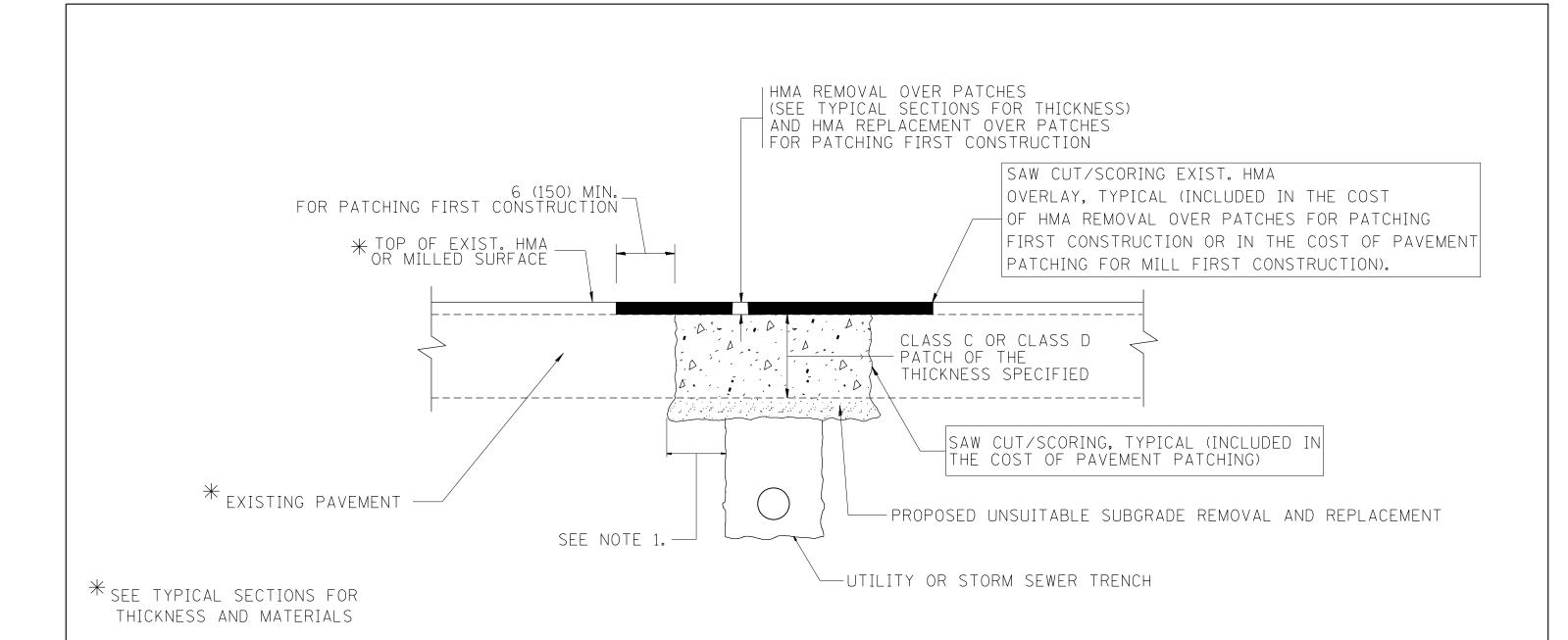
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D143	PIBROWINata\Design\Diststd.dgn	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 10/20/2016	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| Frames and | Lids | Adjustment with milling | Frames | No. 1 | Sheet | State | State | No. 1 | Sheet | State | No. 1 | Sheet | No. 1 | Sheet



- 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)

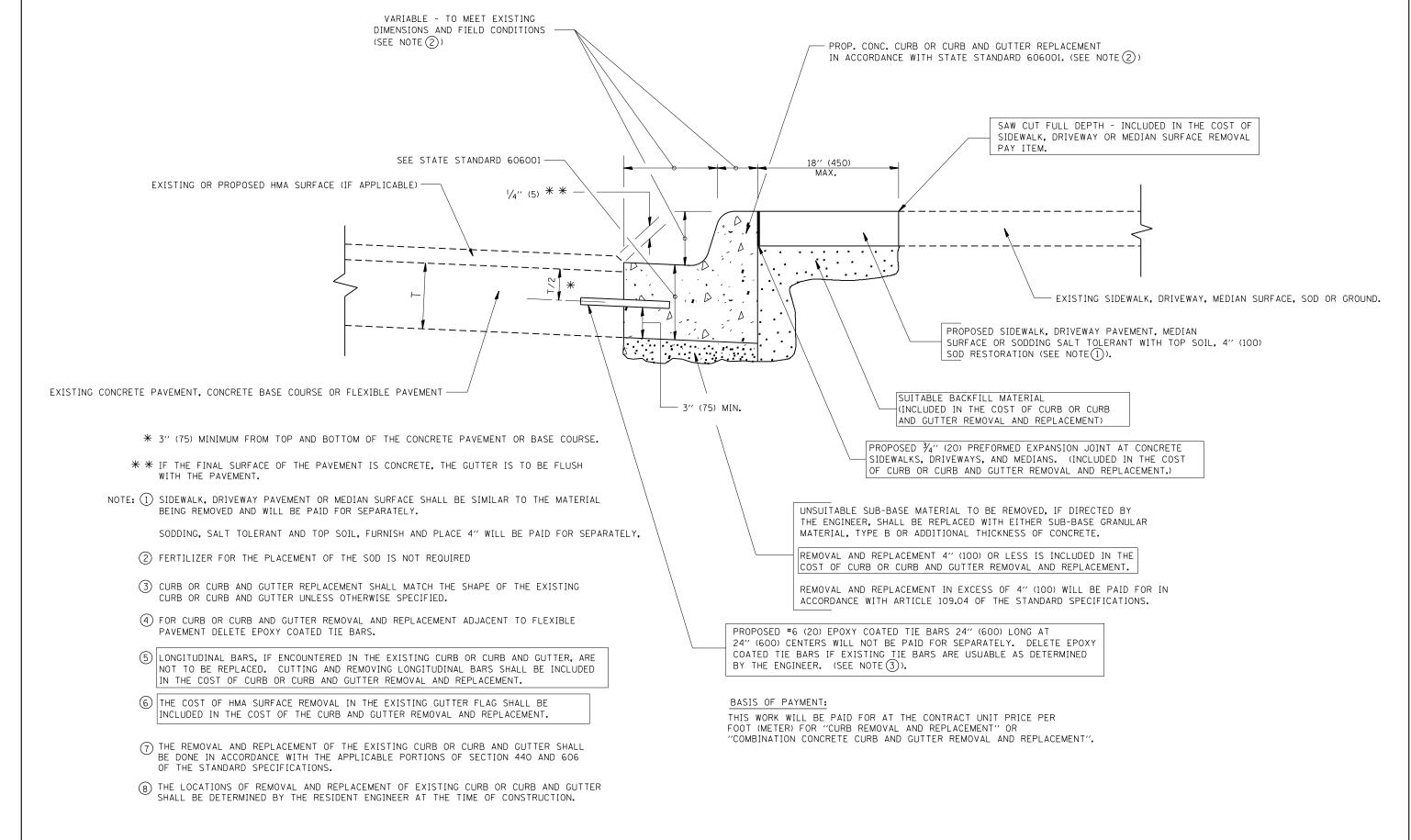
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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 = paraynoal	DESIGNED - R. SHAH	REVISED -	A. ABBAS 04-27-98			PAVEMENT PATCHING FOR		F.A.U.	SECTION	COUNTY	TOTAL S SHEETS	SHEET NO.
pw:\\ILØ84EBIDINTEG.:111:no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D143	91 BRAWIN ata\Design\Diststd.dgn	REVISED -	R. BORO 01-01-07	STATE OF ILLINOIS				3519	(66 & 0103) RS	соок	33	23
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT		ВС	0400-04 (BD-22)	CONTRACT	NO. 6:	2D21	
	PLOT DATE = 10/20/2016	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. A			$\overline{}$



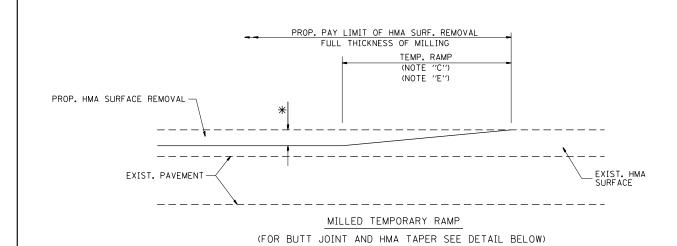
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: NONE

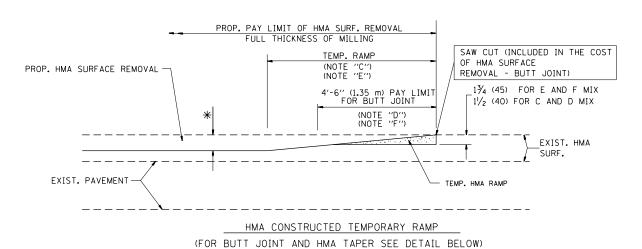
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = paraynoal	DESIGNED - A. HOUSEH	REVISED -	R. SHAH 10-03-96
pw:\\ILØ84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D143	PIBROWINata\Design\Diststd.dgn	REVISED -	A. ABBAS 03-21-97
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	M. GOMEZ 01-22-01
	PLOT DATE = 10/20/2016	DATE - 03-11-94	REVISED -	R. BORO 12-15-09

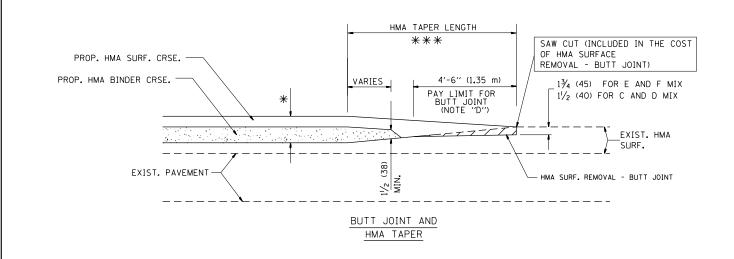
	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT					SECTION	COUNTY	TO SHE
						(66 & 0103) RS	соок	3
						BD600-06 (BD-24)	CONTRACT	NO
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST, NO. 1 ILLINOIS FED. A	D PROJECT	



OPTION 1



OPTION 2 TYPICAL TEMPORARY RAMP

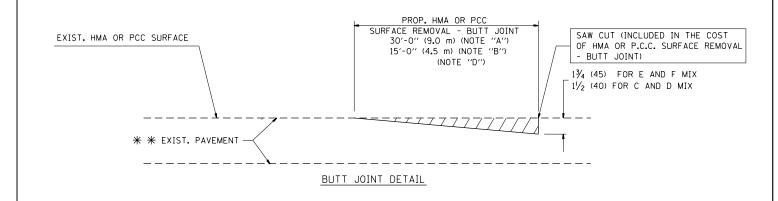


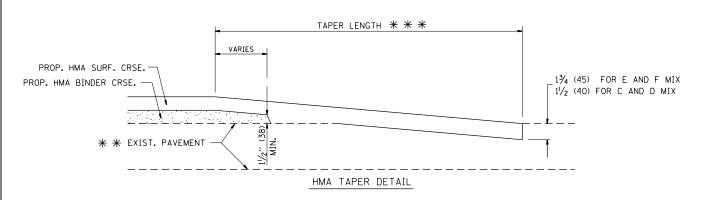
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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

pwi\\[\] \[

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

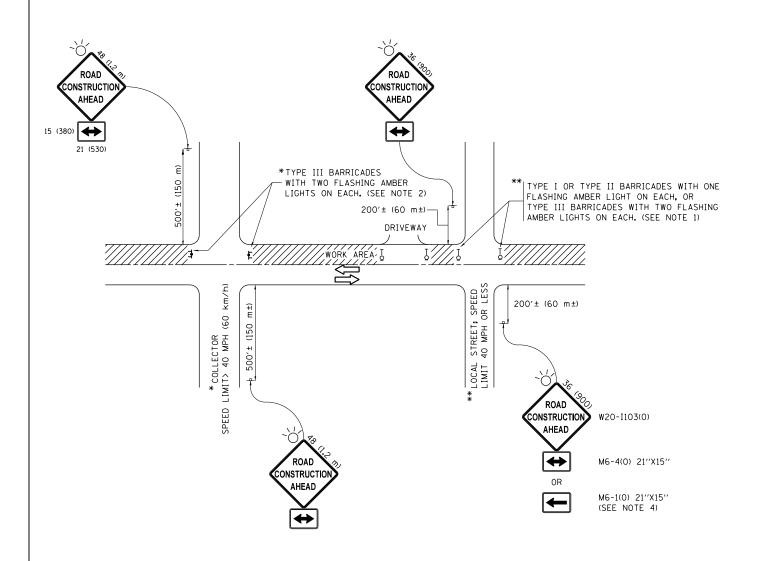
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- : MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (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.

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".

SCALE: NONE

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



- 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:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER 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:
 - a) 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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

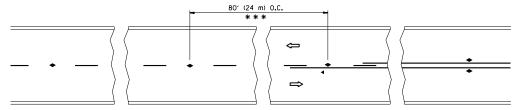
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = paraynoal	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D143	91 BRMM Mata\Design\Diststd.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 10/20/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

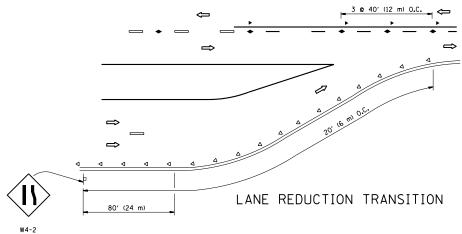
	TRAFFIC	CONTI	RO	L AND F	ROTEC	TION FOR	Ī
SI	DE ROADS	, INTE	RS	SECTIONS	, AND	DRIVEWAYS	_
	SHEET 1	OF	1	SHEETS	STA.	TO STA.	-

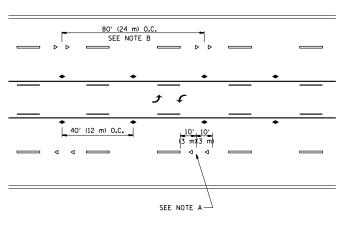
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	TC-10	CONTRACT	NO. 6	52D21
3519	(66 & 0103) RS	COOK	33	26
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.



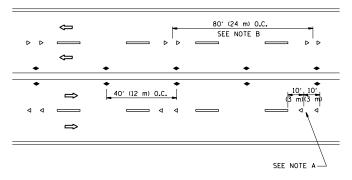
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

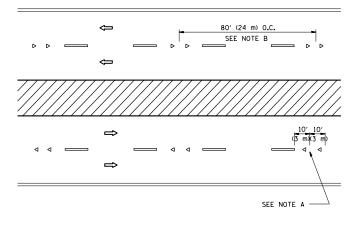




TWO-WAY LEFT TURN



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 (₩/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.

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

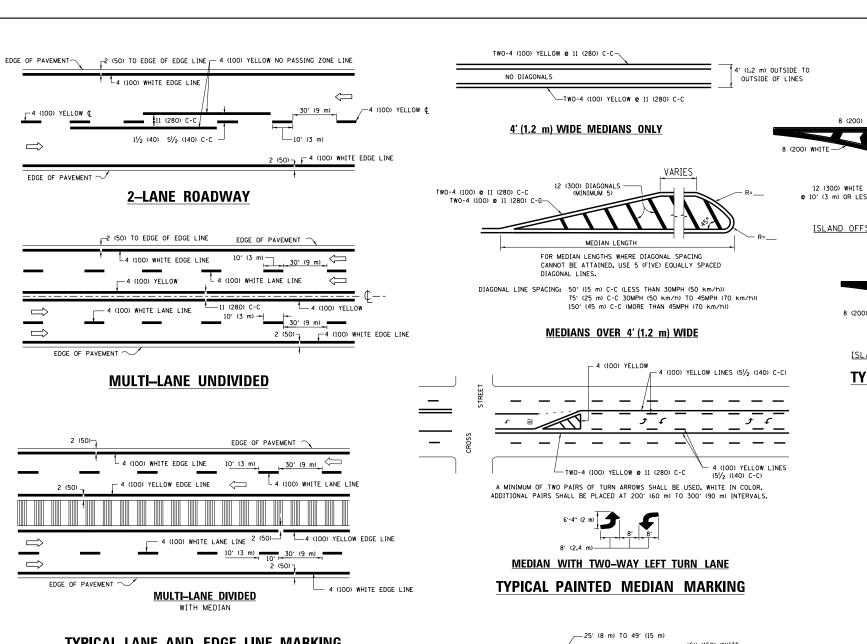
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED	-T. RAMMACHER	09-19-94
pw:\\IL084EBIDINTEG.:1ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D14	391 BRAWIN ata\Design\Diststd.dgn	REVISED	-T. RAMMACHER	03-12-99
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	-T. RAMMACHER	01-06-00
	PLOT DATE = 10/20/2016	DATE -	REVISED	- C. JUCIUS	09-09-09

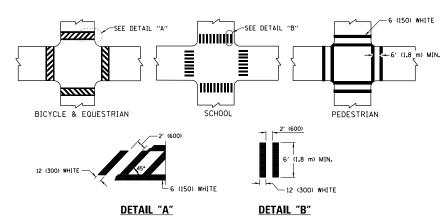
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		F.A.U. RTE.	SECTI	ION	COUNTY				
RAISED R	FELECTIVE DA	VEMEN	T MARKE	SE (SNOW DIOW)	REGISTANT\	3519	(66 & 010	03) RS	СООК
NAISLU N	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)								CONTRA
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. R	DAD DIST. NO. 1 II	LLINOIS FED. A	ID PROJECT

SECTION COUNTY COOK 33 27 (66 & 0103) RS CONTRACT NO. 62D21 TC-11



TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

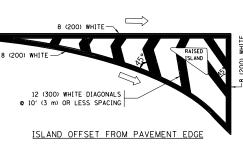
−50′ (15 m) TO 200′ (60 m) || OVER 200' (60 m) ____ 6 (150) WHITE

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

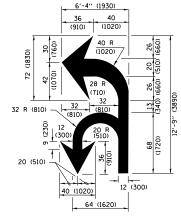
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

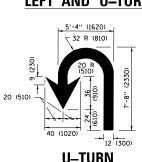
TYPICAL TURN LANE MARKING

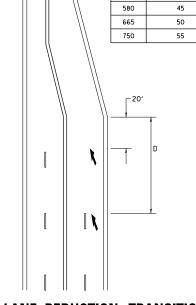






COMBINATION LEFT AND U-TURN





D(FT)

345

425

500

SPEED LIMIT

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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 Q 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) 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 MEDIANS IN YELLOW
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	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
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 @ 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	DIACONALS: 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 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	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 (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

SCALE: NONE

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

FILE NAME = DESIGNED - EVERS USER NAME = paraynoal REVISED - C. JUCIUS 09-09-09 ow:\\ILØ84EBIDINTEG.:111:no: ments\IDOT Offices\District 1\Projects\D143916RQANDNata\Design\Diststd.dgr REVISED -C. JUCIUS 07-01-13 CHECKED REVISED -C. JUCIUS 12-21-15 PLOT DATE = 10/20/2016 DATE 03-19-90 REVISED -C. JUCIUS 04-12-16

		DISTRIC	CT ON	ΙE			F.A.U. RTE.		SECTION	I	COUNTY	TOTAL SHEETS	SHEE NO.
TYPICAL PAVEMENT MARKINGS				3519	(66	& 0103) RS	соок	33	28			
	UAL							TO	–13		CONTRACT	NO.	62D21
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TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

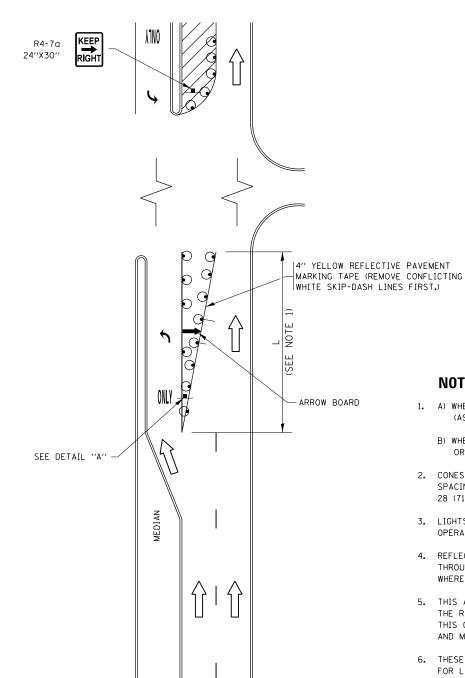


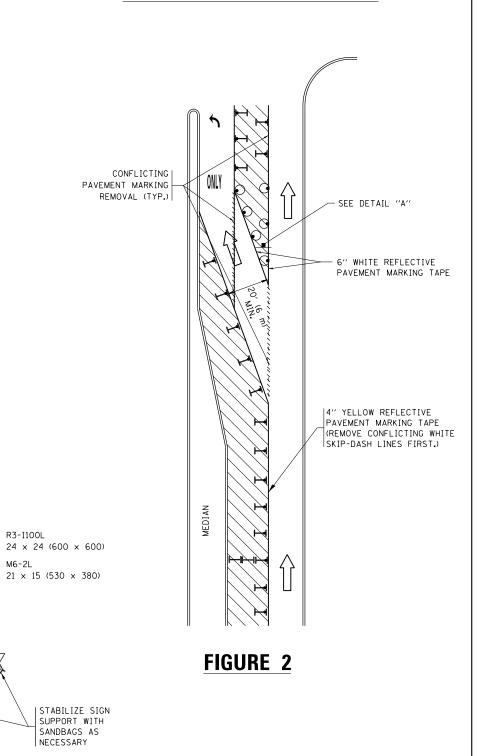
FIGURE 1

LEGEND WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 \times 15 (530 \times 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE



DETAIL A

TURN

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

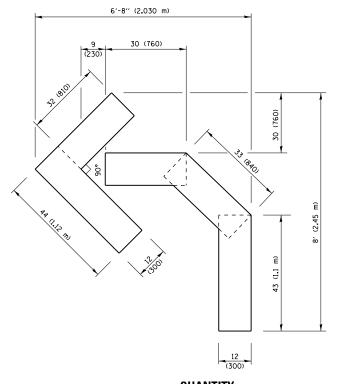
COUNTY

COOK 33 29

CONTRACT NO. 62D21

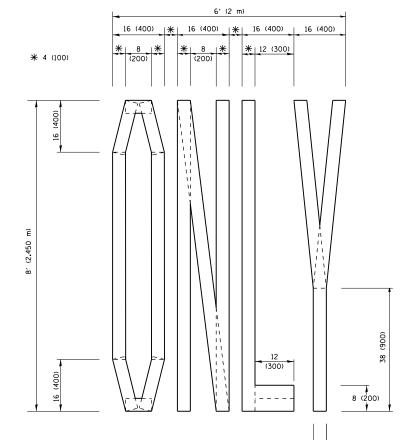
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	PLOT SCALE	= 100.0000 ' / 10.	REVISED	-	A. HOUSEH	10-12-96	REVISED	- A.	SCHUETZE	09-15-16	ĺ
Default	PLOT DATE	= 10/20/2016	REVISED	- T.	RAMMACHER	01-06-00	REVISED	-			

TRAFI	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS										
	3519	(66 & 0103) RS									
		TC-14									
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED				

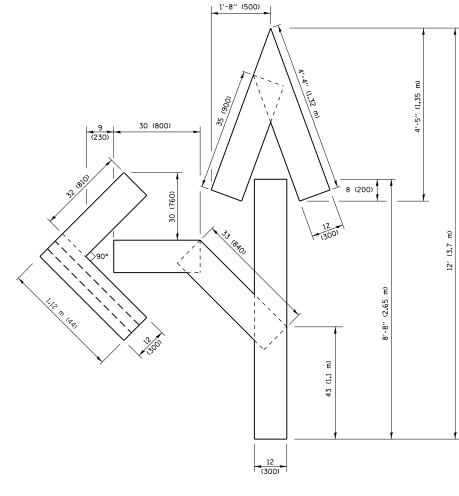


QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)



4 (100) LINE = 64.1 ft. (19.5 m) 21.4 sq. ft. (1.99 sq. m)

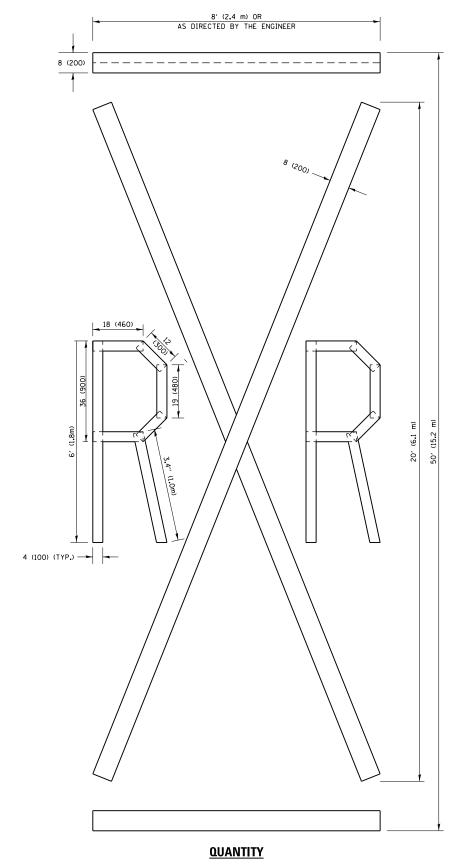


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m) 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



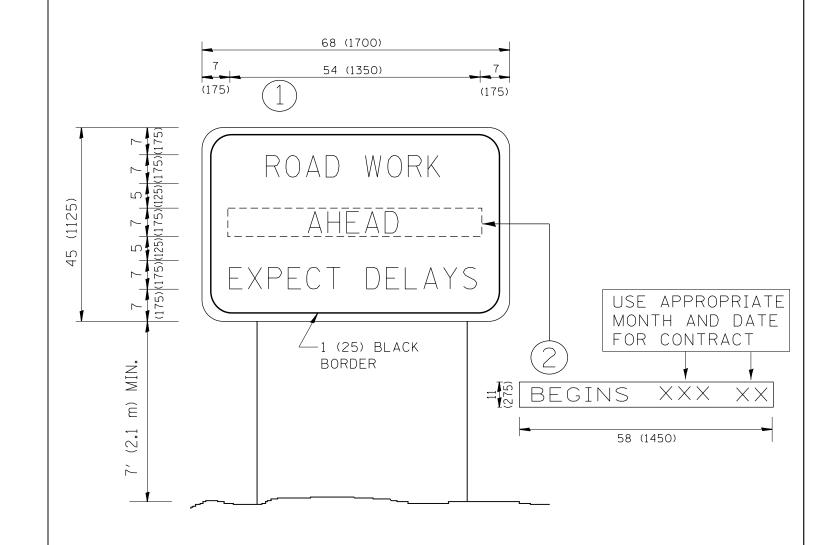
4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

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

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED	-T. RAMMACHER 03-02-98
pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D143	91 BR@WIN ata\Design\Diststd.dgn	REVISED	-E. GOMEZ 08-28-00
	PLOT SCALE = 100.0107 ' / in.	CHECKED -	REVISED	-E. GOMEZ 08-28-00
	PLOT DATE = 10/20/2016	DATE - 09-18-94	REVISED	- A. SCHUETZE 09-15-16

QUANTITY

					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS						(66 & 0103) RS	соок	33	30
						TC-16	CONTRACT	NO.	62D21
SCALE: NONE	SHEET NO. 1 OF	1 SHEETS	STA.	TO STA.	FED. R	DAD DIST, NO. 1 ILLINOIS FED. A	AID PROJECT		



- 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.

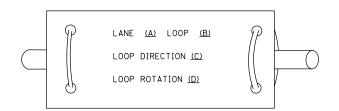
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED	- R. MIRS 09-15-97 - R. MIRS 12-11-97	STATE OF ILLINOIS		ARTERIAL ROAD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I'	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	- R. MIRS 12-11-91 -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN		3519	(66 & 0103) RS TC-22	COOK CONTRACT	33 F	31 2D21
	PLOT DATE = 10/20/2016	DATE -	REVISED	- C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS FED. AI			

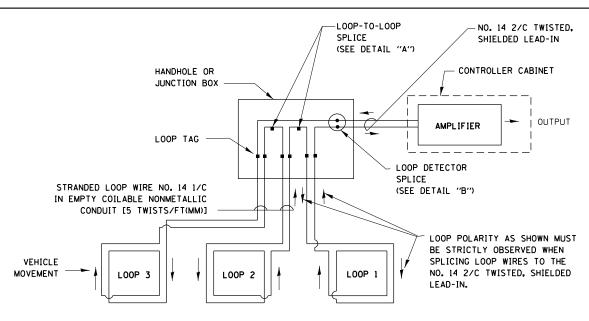
LOOP DETECTOR NOTES

- 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

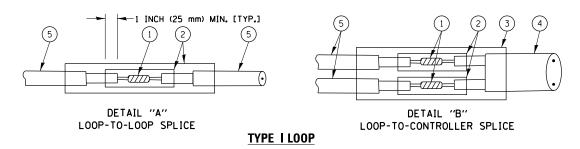


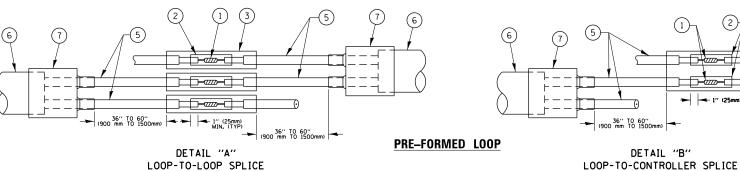
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

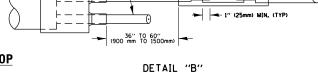
- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

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



- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

COUNTY

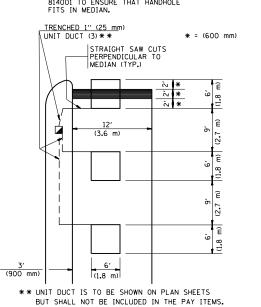
COOK 33 32 CONTRACT NO. 62D21

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -		DISTRICT ONE	F.A.U.	SECTION
pw:\\IL084EBIDINTEG.:llinois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D143	39 1BRAMIN ata\Design\Diststd.dgn	REVISED -	STATE OF ILLINOIS		3519	(66 & 0103) RS
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05
Default	PLOT DATE = 10/20/2016	DATE -	REVISED -		SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.		ILLINOIS FED.

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.

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY 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 814001 TO ENSURE THAT HANDHOLE

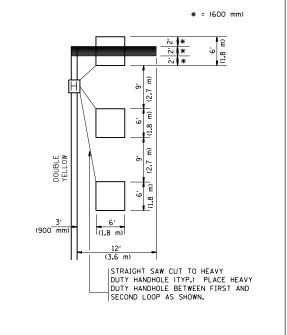


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

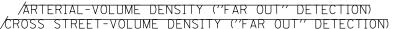
LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

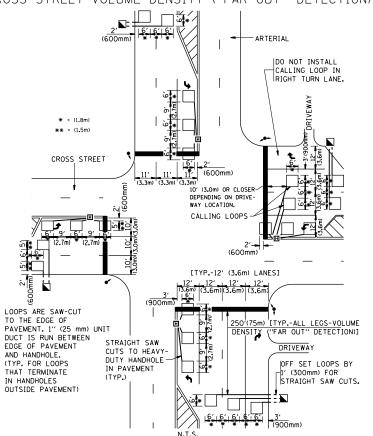


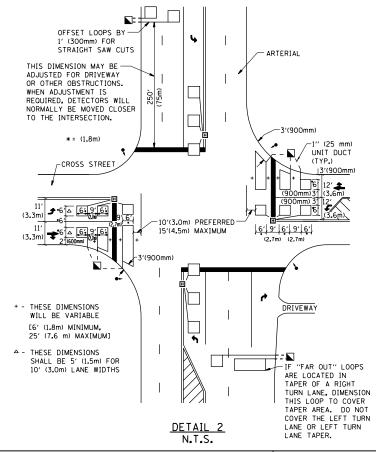
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE



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





NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED,
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * 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 ALL 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.

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.

COUNTY

33 33

CONTRACT NO. 62D21

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000 ' / in.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 10/20/2016	DATE -	REVISED -

DETAIL

N.T.S.

DISTRICT 1 – DETECTOR LOOP INSTALLATION					SECT	COUNTY		
DETAILS FOR	3519 (66 & 0103) RS				соок			
DETAILS TON		TS-07	'		CONTRA			
SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED. A	ID PROJECT