

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	1
ILLINOIS			CONTRACT NO. 62C94	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGES OF NORTHFIELD AND WINNETKA

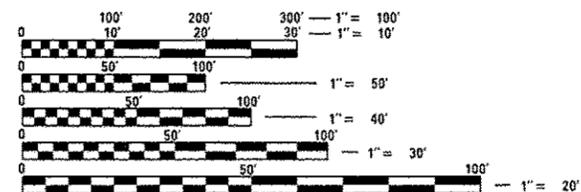
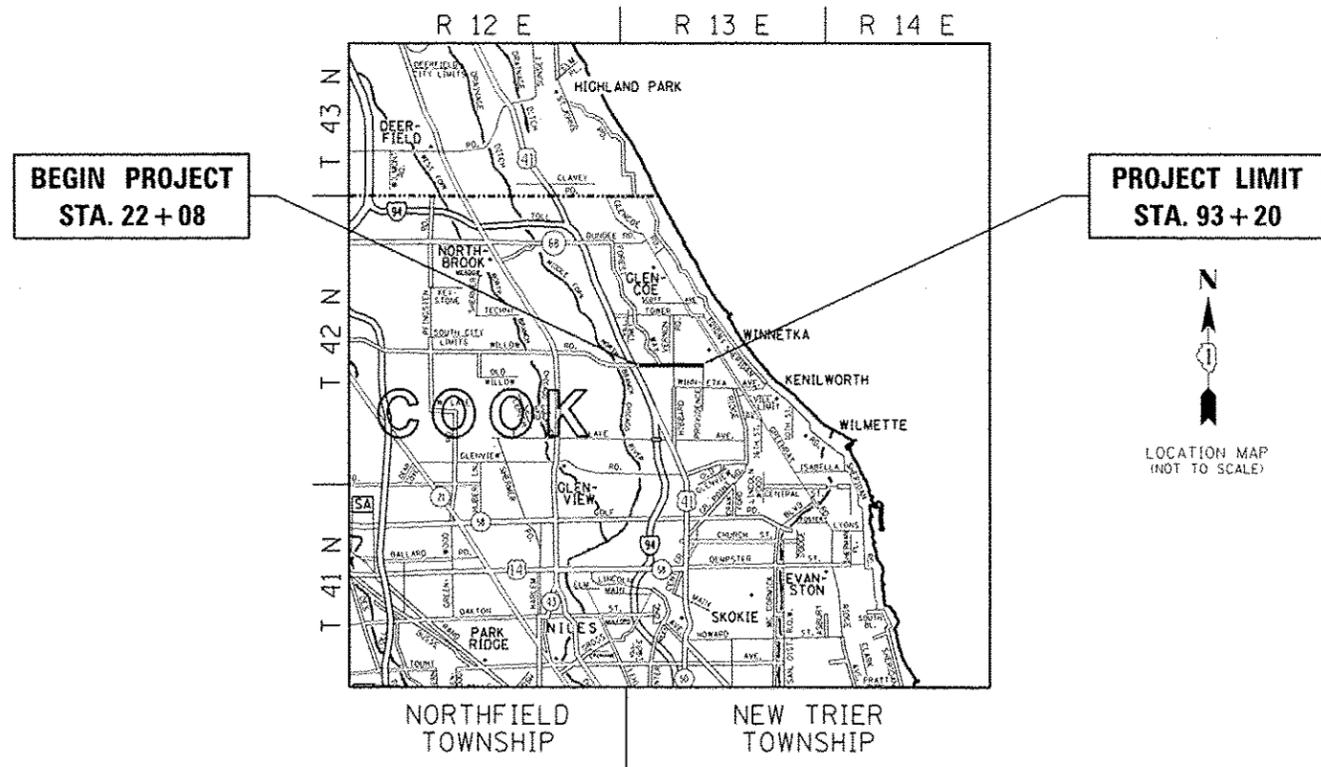
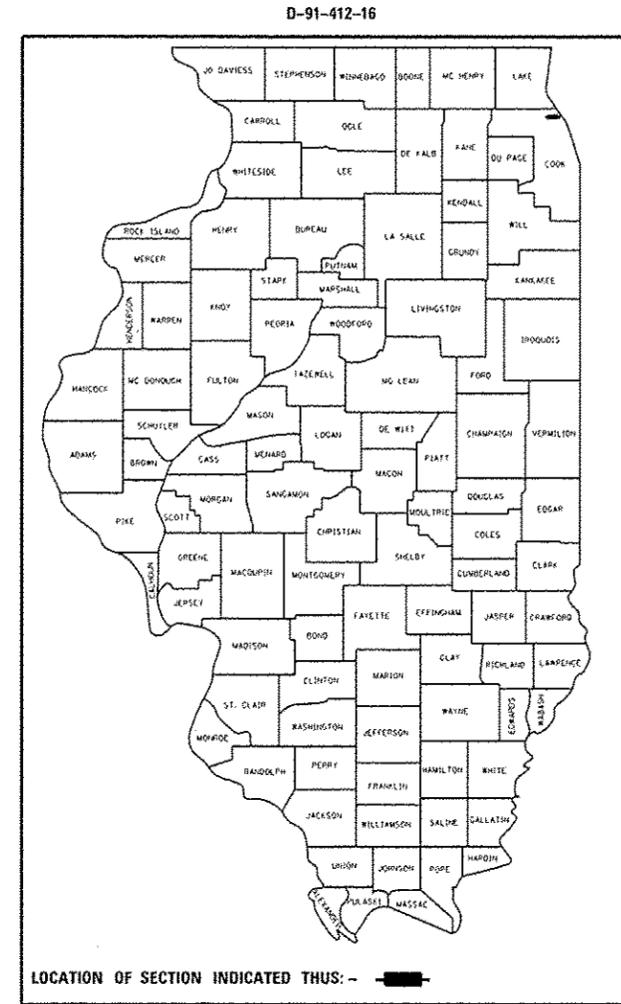
PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 3561 (WILLOW RD.)
I-94 (EDENS EXPWY) TO PROVIDENT AVE./WHITE OAK LN.
SECTION: 2016-041RS
PROJECT: ACM-3561(001)
RESURFACING (3P) AND PEDESTRIAN RAMPS
COOK COUNTY

TRAFFIC DATA:

WILLOW RD.
2014 ADT = 12,200
SPEED LIMIT = 30-35 MPH

C-91-412-16



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

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

GROSS & NET LENGTH = 7,112 FT. = 1.347 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 18 2016
John F. [Signature]
REGIONAL ENGINEER

Dec 9 2016
Maureen M. Addis [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 9 2016
[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

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STANDARD NO.	DESCRIPTION
000001-06	TYPICAL 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
424021-03	DEPRESSED CORNER FOR SIDEWALKS
424026-01	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
604001-04	FRAME AND LIDS, TYPE 1
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS

- 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 VILLAGES OF NORTHFIELD AND WINNETKA.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF 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.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL PAVEMENT PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, DRAINAGE ADJUSTMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 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.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- 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 RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, ARTERIAL TRAFFIC FIELD ENGINEER, AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 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.
- 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.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE 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.
- 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- PROPOSED SIDEWALK RAMPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS AND APPLICABLE STATE HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER.
- ALL PROPOSED SIDE CURB QUANTITIES SHALL BE PAID FOR AS PCC SIDEWALK 5", UNLESS OTHERWISE NOTED ON PLANS.

FILE NAME =	USER NAME = tarcqfm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11804EBI\INTEG.illinois.gov\PI001\Documents\DOT Office\District 1\Projects\0141\DRAWING\Design\0141216-ahc-gennote.dgn		CHECKED -	REVISED -		WILLOW RD. (I-94 (EDENS EXPWY) TO PROVIDENT AVE./WHITE OAK LN.)			3561	2016-041RS	COOK	43	2
					SCALE: SHEET OF SHEETS STA. TO STA.							
Default	PLOT SCALE = 100.0000 ' / in.	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005			
			URBAN				
20200100	EARTH EXCAVATION	CU YD	27	27			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	516	516			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	9			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9			
25200110	SODDING, SALT TOLERANT	SO YD	516	516			
25200200	SUPPLEMENTAL WATERING	UNIT	14	14			
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	14	14			
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	8	8			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	19493	19493			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	90	90			
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1395	1395			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	262	262			

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005			
			URBAN				
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	80	80			
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	10	10			
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	3	3			
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2626	2626			
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	5	5			
42001300	PROTECTIVE COAT	SO YD	978	978			
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	5	5			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	5164	5164			
42400800	DETECTABLE WARNINGS	SO FT	562	562			
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	302	302			
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	20551	20551			
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	26	26			
44000600	SIDEWALK REMOVAL	SO FT	5072	5072			

• SPECIALTY ITEMS

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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005				
			URBAN					
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/2"	SO YD	66	66				
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	188	188				
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	75	75				
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	75	75				
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SO YD	62	62				
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SO YD	25	25				
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SO YD	25	25				
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3				
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	19	19				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	27	27				
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2				
• SPECIALTY ITEMS								

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005				
			URBAN					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	LSUM	1	1				
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1				
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	1				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4580	4580				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	2328	2328				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	73	73				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	10861	10861				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1150	1150				

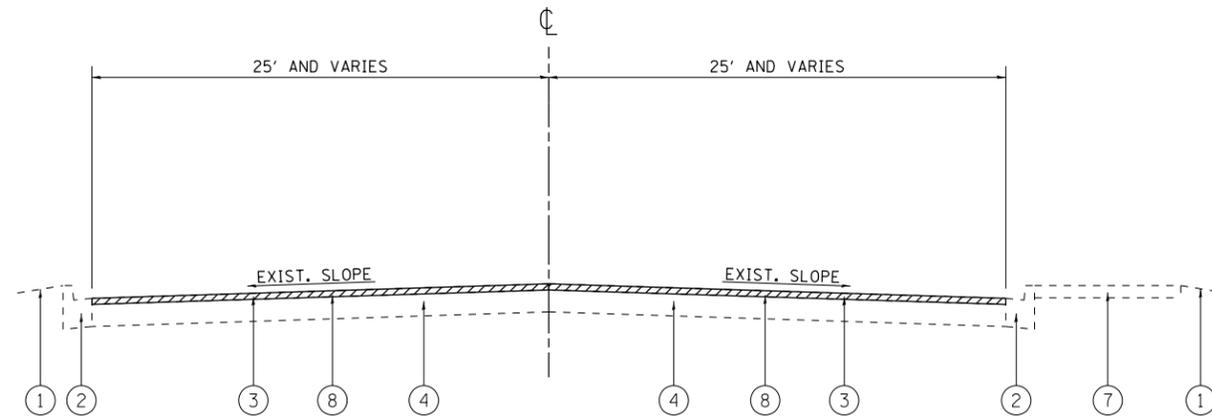
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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005			
			URBAN				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	359	359			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	328	328			
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2403	2403			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	73	73			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10861	10861			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1150	1150			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	359	359			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	328	328			
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	640	640			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	502	502			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	366	366			
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1			
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1133	1133			
* 89502376	REBUILD EXISTING HANDHOLE	EACH	1	1			
• SPECIALTY ITEMS							

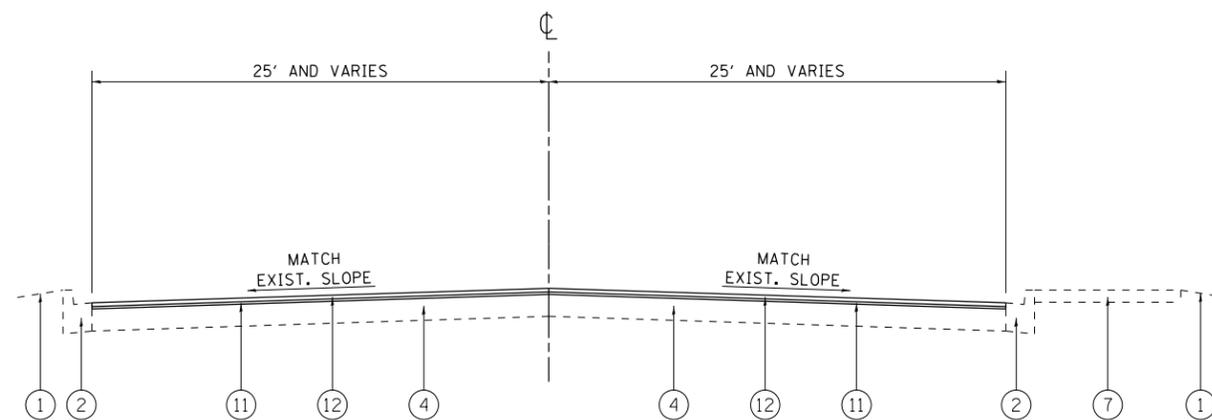
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005			
			URBAN				
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1	1			
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	5283	5283			
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SO YD	4055	4055			
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	170	170			
X4405030	LONGITUDINAL PARTIAL DEPTH REMOVAL 3"	FOOT	3511	3511			
X4420900	LONGITUDINAL PARTIAL DEPTH PATCHING	TON	132	132			
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	400	400			
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	11	11			
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1794	1794			
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	20	20			
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4			
Z0038114	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 1/4"	SO YD	4790	4790			

FILE NAME =	USER NAME = lort/n	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES WILLOW RD. (I-94 (EDENS EXPWY) TO PROVIDENT AVE./WHITE OAK LN.)		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLDT SCALE = 100,000' / 1"	CHECKED -	REVISED -	3561					2016-041RS	COOK	43	5	
PLDT DATE = 10/21/2016	DATE -	REVISED -	SCALE:					SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
										CONTRACT NO. 62C94		

NON-PART. (100% STATE)



WILLOW RD.
EXISTING TYPICAL SECTION
 STA. 22+08 TO STA. 24+78



WILLOW RD.
PROPOSED TYPICAL SECTION
 STA. 22+08 TO STA. 24+78

LEGEND:

- ① EXISTING SOD
- ② EXISTING COMB. CONC. CURB AND GUTTER
- ③ EXISTING HMA SURFACE COURSE, ± 2½"
- ④ EXISTING PCC PAVEMENT, VARIES ± 9" TO ± 10"
- ⑤ EXISTING HMA SURFACE COURSE, ± 5"
- ⑥ EXISTING SUB-BASE GRANULAR MATERIAL, ± 4"
- ⑦ EXISTING SIDEWALK
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2½"
- ⑨ PROPOSED PCC SURFACE REMOVAL ¼"
- ⑩ PROPOSED PCC SURFACE REMOVAL (VARIABLE DEPTH)
- ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MM, IL-4.75, N50, 1"
- ⑫ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1½"
- ⑬ PROPOSED LONGITUDINAL PARTIAL DEPTH REMOVAL 3"
- ⑭ PROPOSED LONGITUDINAL PARTIAL DEPTH PATCHING

NOTES:

1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING BETWEEN STA. 22+08 AND STA. 24+78.
2. THE CONTRACTOR SHALL MILL TO THE EXISTING PCC PAVEMENT BETWEEN STA. 22+08 AND STA. 24+78.

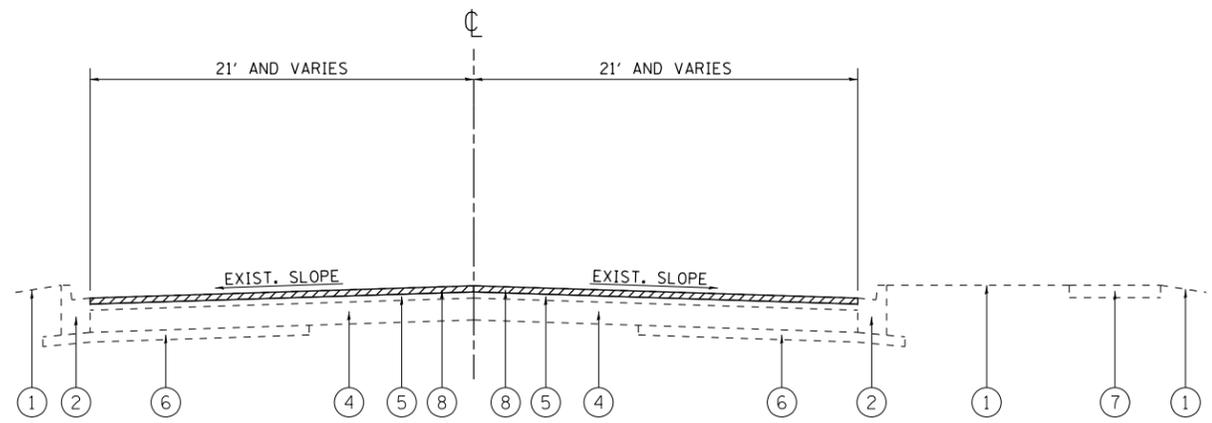
HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (OMP)
PAVEMENT RESURFACING	HMA SURFACE COURSE, MIX "D", N70, (IL 9.5 mm); 1½"	4% @ 70 GYR.	OCP
	POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 1"	3.5% @ 50 GYR.	OCP
PATCHING	CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR	QC/OA
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR	QC/OA
DRIVEWAYS	HMA SURFACE COURSE, MIX "D", N50, (IL-9.5 mm); 2"	4% @ 50 GYR.	QC/OA
	HMA BASE COURSE, (HMA BINDER IL-19 mm); PE - 6", CE - 8"	4% @ 50 GYR.	QC/OA
LONGITUDINAL PARTIAL DEPTH PATCHING	HMA SURFACE COURSE, MIX "D", N70, (IL 9.5 mm); 3"	4% @ 70 GYR.	QC/OA

OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (OCP)

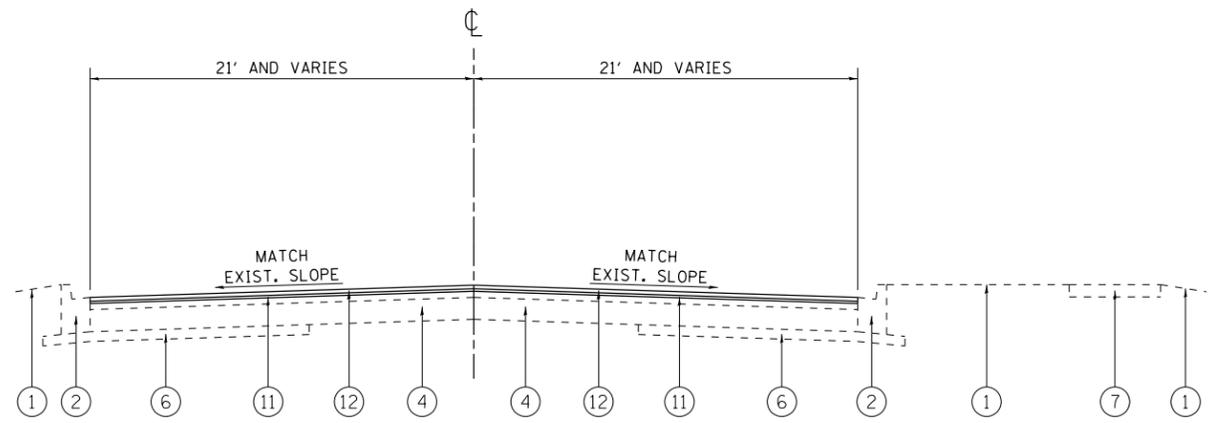
- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

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



WILLOW RD.
EXISTING TYPICAL SECTION
 STA. 24+78 TO STA. 63+00



WILLOW RD.
PROPOSED TYPICAL SECTION
 STA. 24+78 TO STA. 63+00

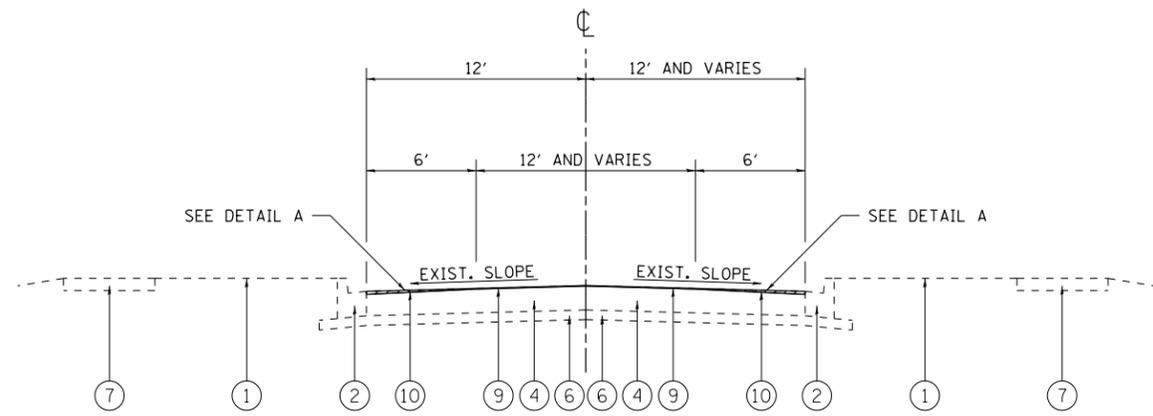
LEGEND:

- ① EXISTING SOD
- ② EXISTING COMB. CONC. CURB AND GUTTER
- ③ EXISTING HMA SURFACE COURSE, ± 2 1/2"
- ④ EXISTING PCC PAVEMENT, VARIES ± 9" TO ± 10"
- ⑤ EXISTING HMA SURFACE COURSE, ± 5"
- ⑥ EXISTING SUB-BASE GRANULAR MATERIAL, ± 4"
- ⑦ EXISTING SIDEWALK
- ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑨ PROPOSED PCC SURFACE REMOVAL 1/4"
- ⑩ PROPOSED PCC SURFACE REMOVAL (VARIABLE DEPTH)
- ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 1"
- ⑫ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑬ PROPOSED LONGITUDINAL PARTIAL DEPTH REMOVAL 3"
- ⑭ PROPOSED LONGITUDINAL PARTIAL DEPTH PATCHING

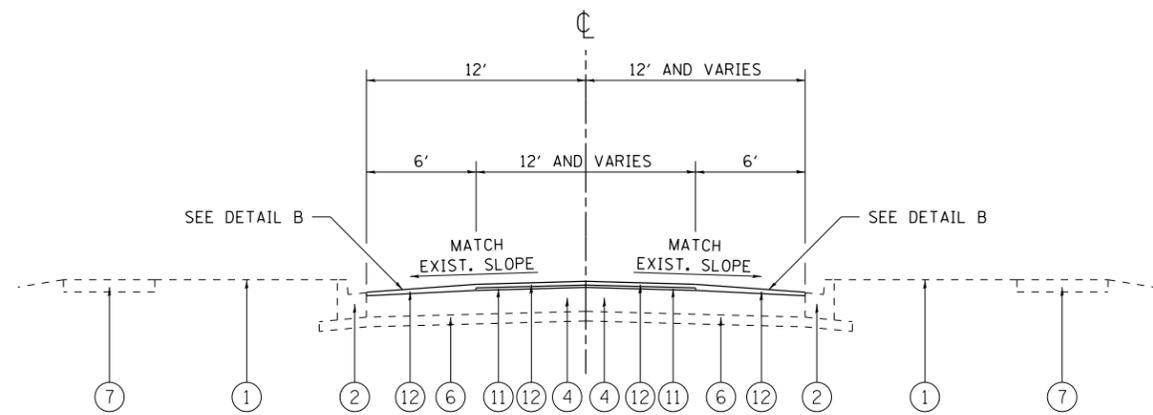
NOTES:

1. THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING BETWEEN STA. 24+78 AND STA. 63+00.

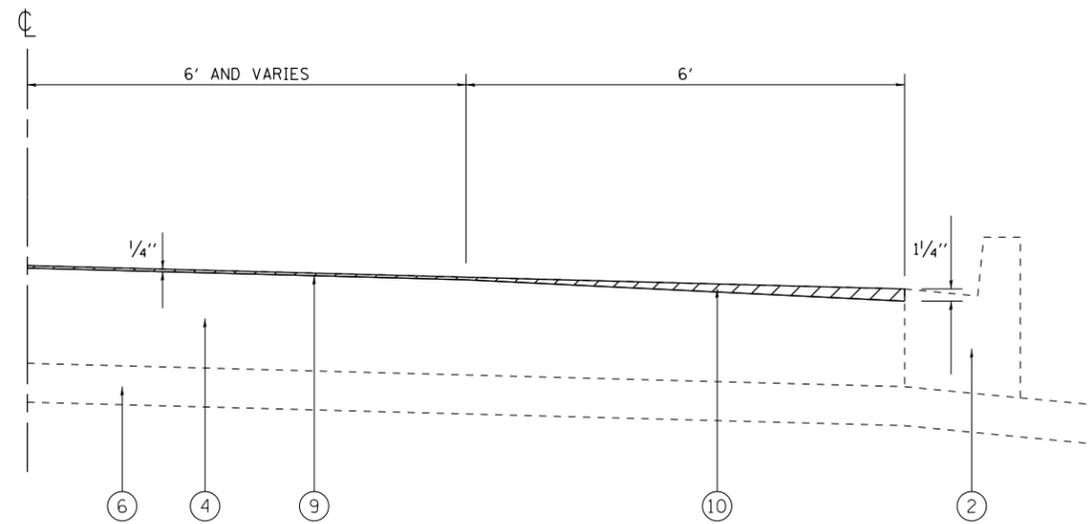
FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS WILLOW RD. (I-94 (EDENS EXPWY) TO PROVIDENT AVE./WHITE OAK LN.)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI4216\Drawings\Design\DI4216-shr-typical.dgn						F.A.U. RTE. = 3561	SECTION = 2016-041RS	COUNTY = COOK	TOTAL SHEETS = 43	SHEET NO. = 7	
PLOT SCALE = 100.0000' / 1" =						CONTRACT NO. 62C94					
Default						ILLINOIS FED. AID PROJECT					



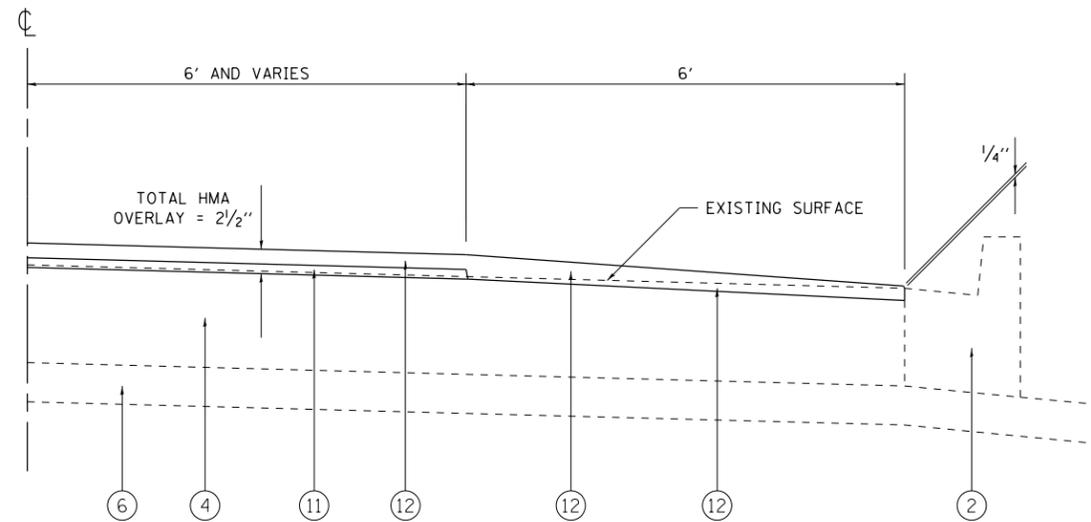
WILLOW RD.
EXISTING TYPICAL SECTION
 STA. 63+00 TO STA. 93+20



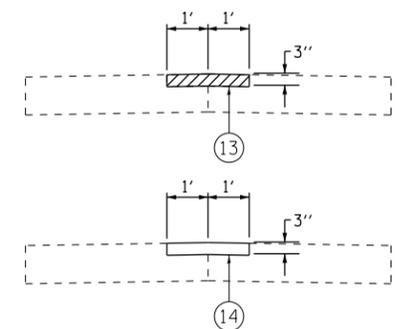
WILLOW RD.
PROPOSED TYPICAL SECTION
 STA. 63+00 TO STA. 93+20



DETAIL A
 (ONLY RT SIDE SHOWN, APPLIES TO LT SIDE ALSO)



DETAIL B
 (ONLY RT SIDE SHOWN, APPLIES TO LT SIDE ALSO)



DETAIL C
LONGITUDINAL PARTIAL DEPTH PATCHING
 (LOCATIONS TO BE DETERMINED BY ENGINEER)

LEGEND:

- | | |
|---|---|
| ① EXISTING SOD | ⑧ PROPOSED HMA SURFACE REMOVAL, 2 1/2" |
| ② EXISTING COMB. CONC. CURB AND GUTTER | ⑨ PROPOSED PCC SURFACE REMOVAL 1/4" |
| ③ EXISTING HMA SURFACE COURSE, ± 2 1/2" | ⑩ PROPOSED PCC SURFACE REMOVAL (VARIABLE DEPTH) |
| ④ EXISTING PCC PAVEMENT, VARIES ± 9" TO ± 10" | ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 1" |
| ⑤ EXISTING HMA SURFACE COURSE, ± 5" | ⑫ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2" |
| ⑥ EXISTING SUB-BASE GRANULAR MATERIAL, ± 4" | ⑬ PROPOSED LONGITUDINAL PARTIAL DEPTH REMOVAL 3" |
| ⑦ EXISTING SIDEWALK | ⑭ PROPOSED LONGITUDINAL PARTIAL DEPTH PATCHING |

NOTES:

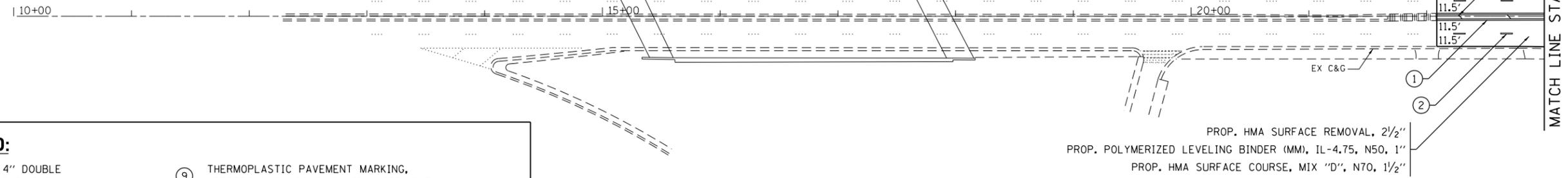
1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING BETWEEN STA. 63+00 AND STA. 93+20.

FILE NAME =	USER NAME = tar1qfm	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 10/21/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

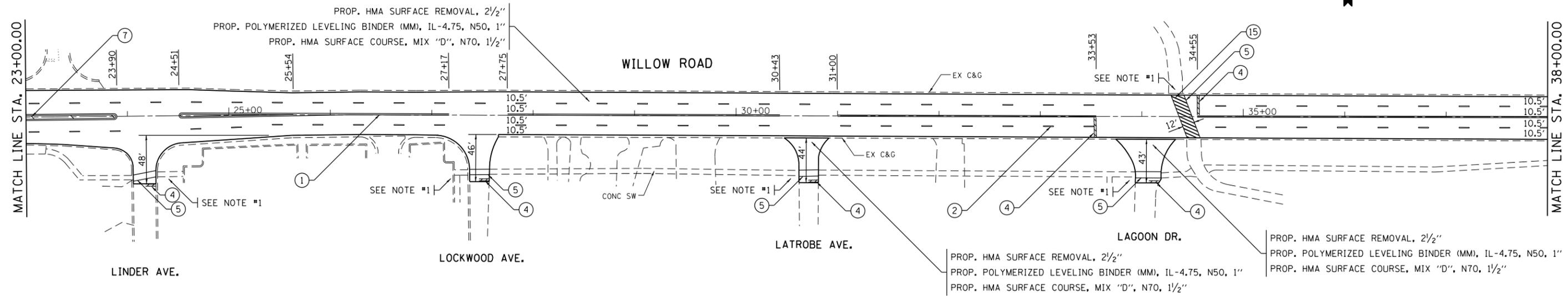
EXISTING AND PROPOSED TYPICAL SECTIONS			
WILLOW RD. (I-94 (EDENS EXPWY) TO PROVIDENT AVE./WHITE OAK LN.)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	8
CONTRACT NO. 62C94				
ILLINOIS FED. AID PROJECT				



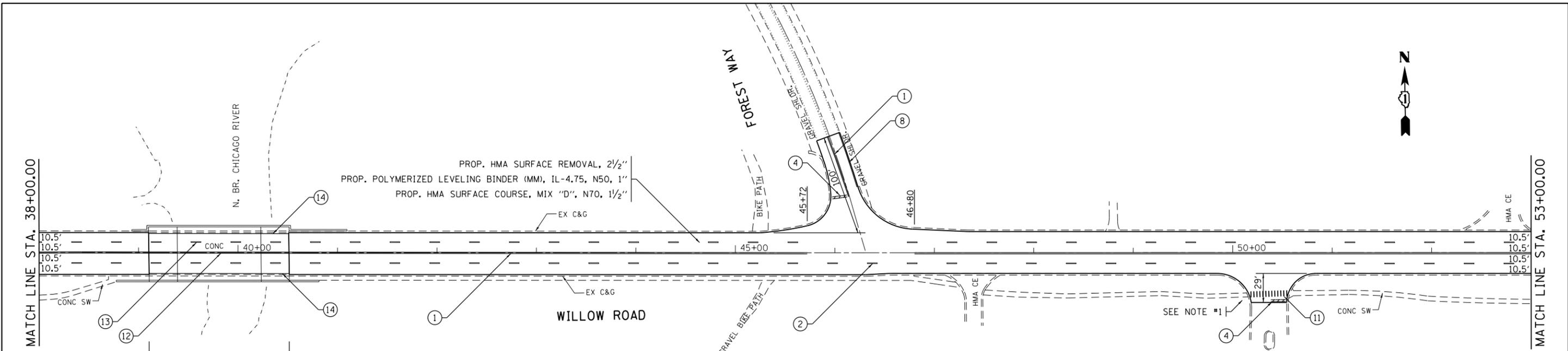
PAVEMENT MARKING LEGEND:

① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)	⑨ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.)	⑩ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LANE LINE, 10' DASH - 30' SKIP (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)	⑪ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE LONGITUDINAL BAR, SPACED 2' APART (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)	⑫ POLYUREA PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)
⑤ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C (TYP. UNLESS OTHERWISE NOTED)	⑬ POLYUREA PAVEMENT MARKING, 4" SKIP-DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.)
⑥ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE PARKING LINE (TYP.)	⑭ POLYUREA PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)
⑦ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONAL LINE (TYP.)	⑮ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE DIAGONAL LINE, SPACED 2' APART (TYP.)
⑧ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	



NOTE:
1. SEE SIDEWALK DETAIL PLAN FOR PROPOSED SIDEWALK DESIGN.

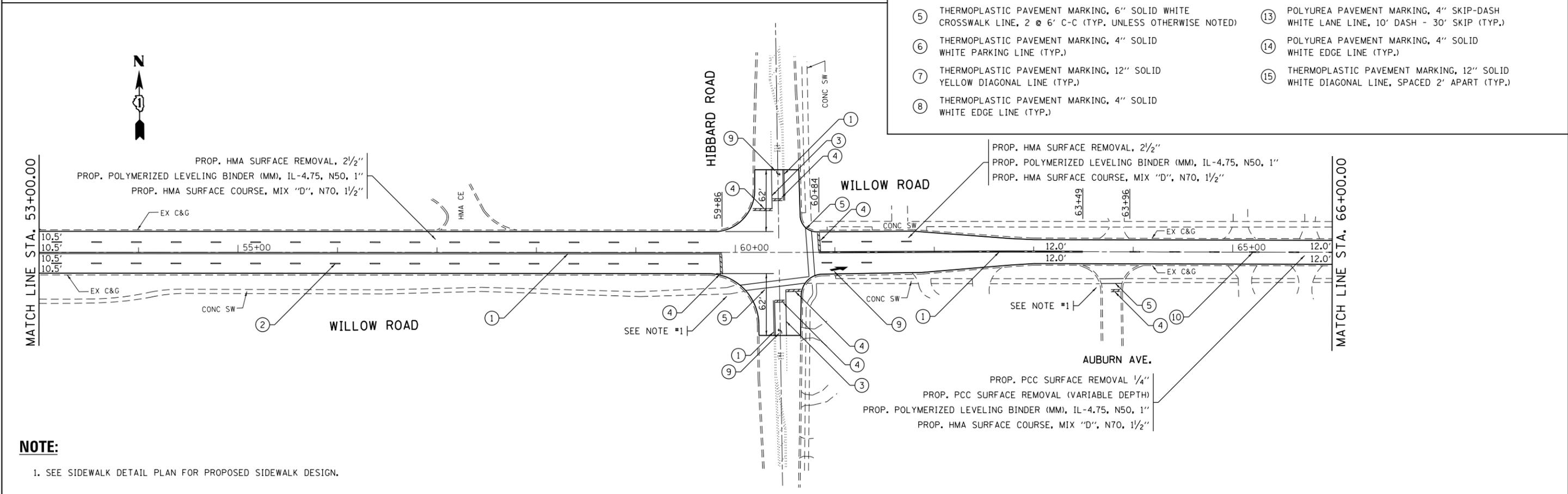
FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN WILLOW RD. (I-94 (EDENS EXPWY) TO PROVIDENT AVE./WHITE OAK LN.)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\0141216\Drawings\Design\0141216-shr-plan.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			3561	2016-041RS	COOK	43	9	
Default	PLOT DATE = 10/21/2016	DATE -	REVISED -			CONTRACT NO. 62C94					
						ILLINOIS FED. AID PROJECT					



RESURFACING OMISSION BETWEEN
STA. 39+10 AND STA. 40+50

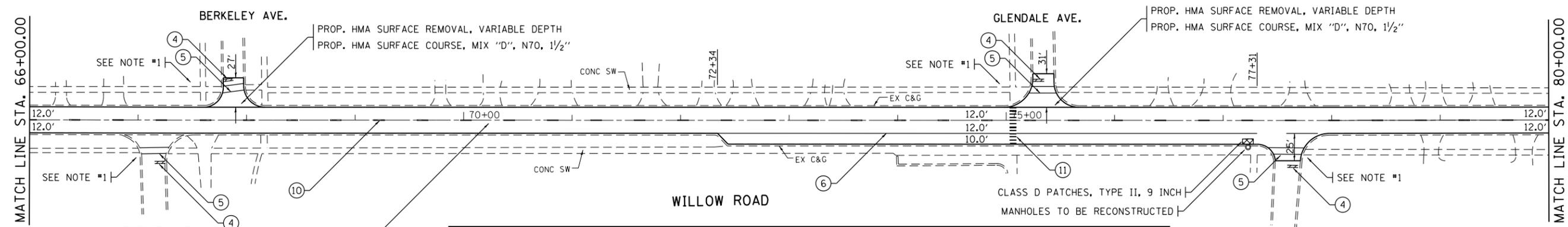
PAVEMENT MARKING LEGEND:

- | | |
|---|---|
| ① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.) | ⑨ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.) |
| ② THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.) | ⑩ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LANE LINE, 10' DASH - 30' SKIP (TYP.) |
| ③ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.) | ⑪ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE LONGITUDINAL BAR, SPACED 2' APART (TYP.) |
| ④ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.) | ⑫ POLYUREA PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C (TYP. UNLESS OTHERWISE NOTED) | ⑬ POLYUREA PAVEMENT MARKING, 4" SKIP-DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE PARKING LINE (TYP.) | ⑭ POLYUREA PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.) |
| ⑦ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONAL LINE (TYP.) | ⑮ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE DIAGONAL LINE, SPACED 2' APART (TYP.) |
| ⑧ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.) | |



NOTE:
1. SEE SIDEWALK DETAIL PLAN FOR PROPOSED SIDEWALK DESIGN.

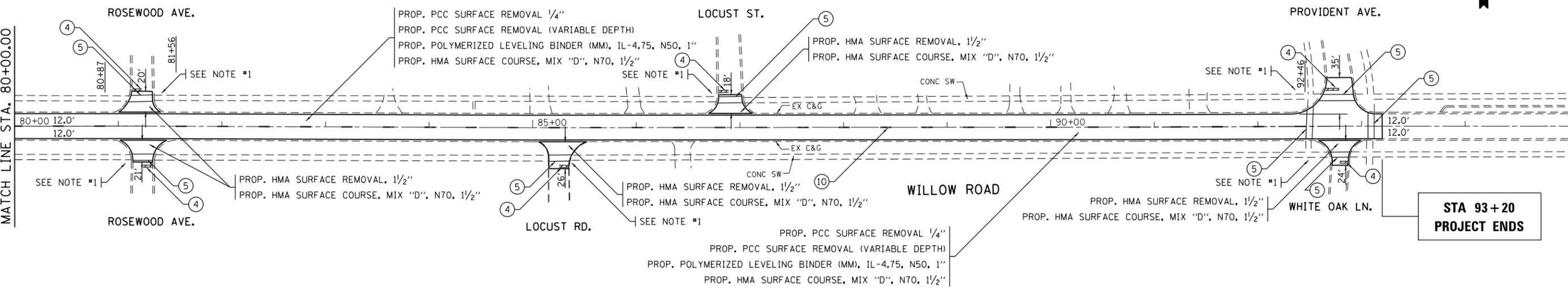
FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN WILLOW RD. (I-94 (EDENS EXPWY) TO PROVIDENT AVE./WHITE OAK LN.)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI41216\Drawings\Design\DI41216-shr-plan.dgn		CHECKED -	REVISED -			3561	2016-041RS	COOK	43	10
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			CONTRACT NO. 62C94				
Default						ILLINOIS FED. AID PROJECT				



PROP. PCC SURFACE REMOVAL 1/4"
 PROP. PCC SURFACE REMOVAL (VARIABLE DEPTH)
 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 1"
 PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"

PAVEMENT MARKING LEGEND:

① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)	⑨ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
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⑦ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONAL LINE (TYP.)	⑮ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE DIAGONAL LINE, SPACED 2' APART (TYP.)
⑧ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	



NOTE:

1. SEE SIDEWALK DETAIL PLAN FOR PROPOSED SIDEWALK DESIGN.

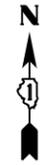


FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN WILLOW RD. (I-94 (EDENS EXPWY) TO PROVIDENT AVE./WHITE OAK LN.)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\0141216\Drawings\Design\0141216-shr-plan.dgn		CHECKED -	REVISED -			3561	2016-041RS	COOK	43	11
PLOT SCALE = 100.0000' / 1" / 1" / 1"		DATE -	REVISED -			CONTRACT NO. 62C94				
Default						SCALE: 1" = 50'		SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT

WILLOW 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	REBUILD EXISTING HANDHOLE	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
	CU YD	SO YD	POUND	POUND	POUND	SO YD	UNIT	SO FT	SO FT	SO FT	EACH	EACH	FOOT
	20200100	21101615	25000400	25000500	25000600	25200110	25200200	42400200	42400800	44000600	60255500	89502376	Z0004562
LINDER AVE	0.6	10.7	0.2	0.2	0.2	10.7	0.4	118	10	116	0	0	10
LOCKWOOD AVE	0.4	7.2	0.2	0.2	0.2	7.2	0.3	79	20	79	0	0	10
LATROBE AVE	0.6	9.9	0.3	0.3	0.3	9.9	0.4	112	20	109	0	0	0
LAGOON DR	1.3	13.6	0.4	0.4	0.4	13.6	0.6	224	72	223	0	0	34
VILLAGE HALL ENTRANCE	0.6	10.1	0.3	0.3	0.3	10.1	0.4	116	22	121	0	0	22
HIBBARD RD	2.0	18.6	0.5	0.5	0.5	18.6	0.7	419	50	419	0	1	58
AUBURN AVE	0.6	12.3	0.4	0.4	0.4	12.3	0.5	142	20	143	0	0	22
EUCLID AVE	1.0	18.4	0.5	0.5	0.5	18.4	0.8	308	20	308	0	0	20
BERKELEY AVE	3.5	47.1	1.1	1.1	1.1	47.1	2.0	703	54	724	1	0	52
GLENDALE AVE NB	3.4	37.3	0.8	0.8	0.8	37.3	1.5	720	45	720	1	0	73
GLENDALE AVE SB	1.5	11.2	0.3	0.3	0.3	11.2	0.4	238	22	225	0	0	32
ROSEWOOD AVE	2.3	34.0	0.9	0.9	0.9	34.0	1.5	413	41	395	0	0	41
LOCUST RD	0.9	18.8	0.4	0.4	0.4	18.8	0.7	223	21	223	0	0	0
LOCUST ST	0.8	12.3	0.4	0.4	0.4	12.3	0.6	143	21	140	0	0	20
WHITE OAK LN/ PROVIDENT AVE	7.0	71.9	1.5	1.5	1.5	71.9	3.0	1,128	124	1,049	1	0	100
TOTAL	26.5	333.4	8.2	8.2	8.2	333.4	13.8	5,086	562	4,994	3	1	494

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.

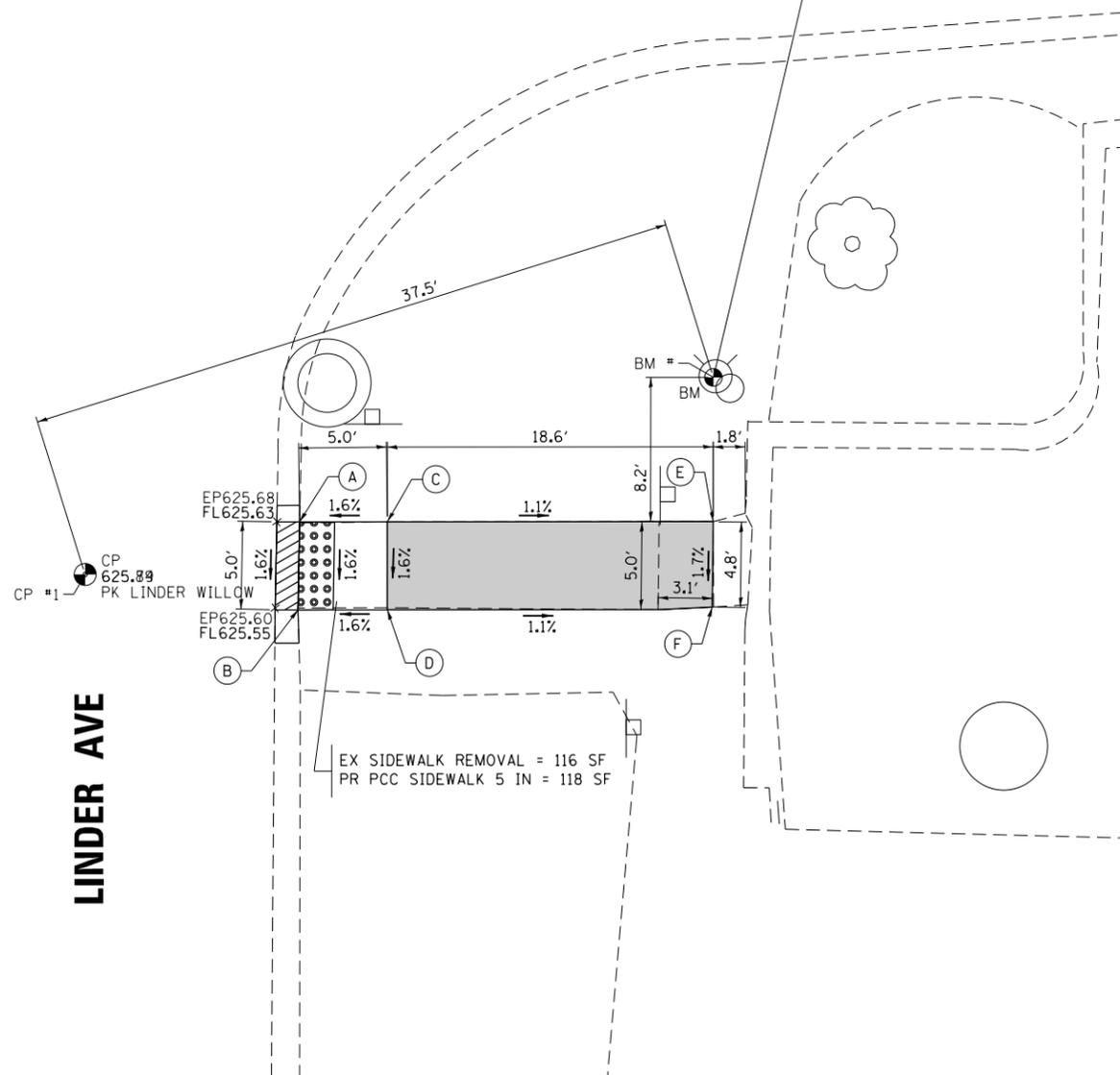
POINT	ELEV	NOTE
A	625.67	TW=TC
B	625.59	TW=TC
C	625.75	TW
D	625.67	TW
E	625.54	MATCH
F	625.46	MATCH



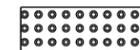
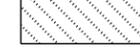
SITE BENCHMARK:
 "X" ON SOUTHWEST ARROW
 BOLT OF FIRE HYDRANT
 ELEVATION = 628.473
 VERT DATUM: NAVD88

WILLOW RD

LINDER AVE



LEGEND

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE

- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

FILE NAME = 62C94-sht-plan01.dgn	USER NAME = Dwhite	DESIGNED -	REVISED -
Default	PLOT SCALE = 10.0000' / 1" =	DRAWN -	REVISED -
	PLOT DATE = 10/20/2016	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
 WILLOW ROAD AT LINDER AVENUE

SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	13
CONTRACT NO. 62C94				
ILLINOIS FED. AID PROJECT				

WILLOW RD



NOTES:

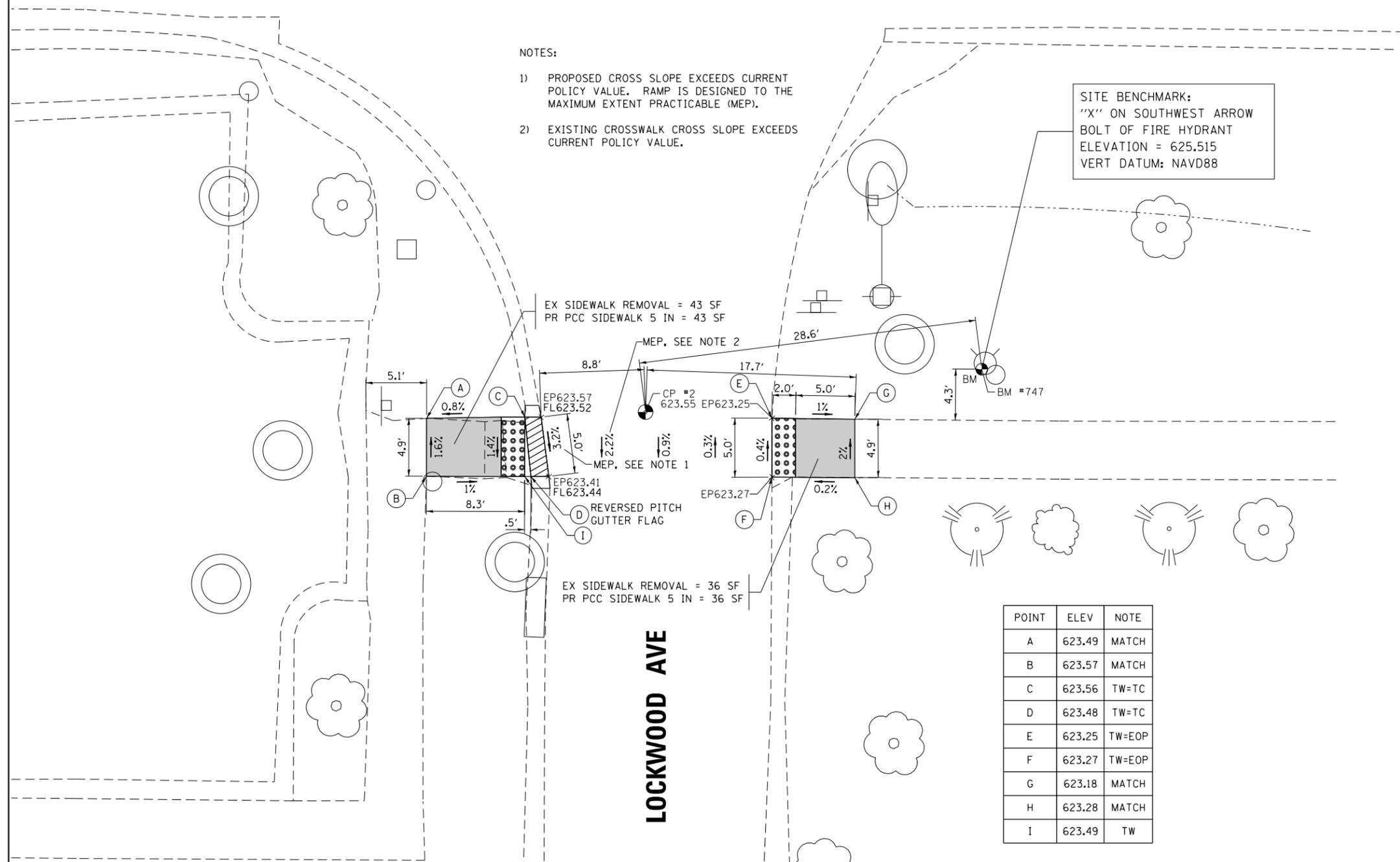
- 1) PROPOSED CROSS SLOPE EXCEEDS CURRENT POLICY VALUE. RAMP IS DESIGNED TO THE MAXIMUM EXTENT PRACTICABLE (MEP).
- 2) EXISTING CROSSWALK CROSS SLOPE EXCEEDS CURRENT POLICY VALUE.

SITE BENCHMARK:
 "X" ON SOUTHWEST ARROW
 BOLT OF FIRE HYDRANT
 ELEVATION = 625.515
 VERT DATUM: NAVD88

EX SIDEWALK REMOVAL = 43 SF
 PR PCC SIDEWALK 5 IN = 43 SF

EX SIDEWALK REMOVAL = 36 SF
 PR PCC SIDEWALK 5 IN = 36 SF

LOCKWOOD AVE



POINT	ELEV	NOTE
A	623.49	MATCH
B	623.57	MATCH
C	623.56	TW=TC
D	623.48	TW=TC
E	623.25	TW=EOP
F	623.27	TW=EOP
G	623.18	MATCH
H	623.28	MATCH
I	623.49	TW

LEGEND

- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
- PROPOSED SIDEWALK TURNING SPACE
- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

FILE NAME = 62C94-sht-plan02.dgn
 Default

USER NAME = Dwhite
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/20/2016

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

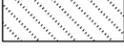
**SIDEWALK DETAIL PLAN
 WILLOW ROAD AT LOCKWOOD AVENUE**
 SCALE: 1" = 5'
 SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	14
CONTRACT NO. 62C94				
ILLINOIS FED. AID PROJECT				

WILLOW RD



LEGEND

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE

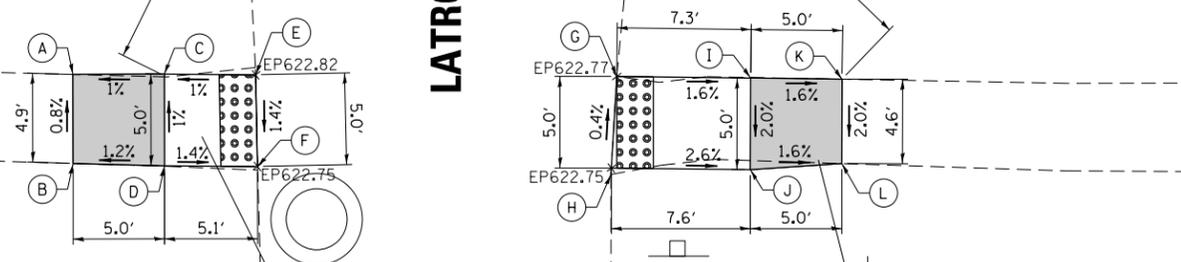
- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

LATROBE AVE

CP #3
623.62
PK LATROBE WILLOW

BM
BM #

SITE BENCHMARK:
"X" ON SOUTHWEST ARROW
BOLT OF FIRE HYDRANT
ELEVATION = 624.582
VERT DATUM: NAVD88



EX SIDEWALK REMOVAL = 51 SF
PR PCC SIDEWALK 5 IN = 51 SF

EX SIDEWALK REMOVAL = 58 SF
PR PCC SIDEWALK 5 IN = 61 SF

POINT	ELEV	NOTE
A	622.72	MATCH
B	622.76	MATCH
C	622.77	TW
D	622.82	TW
E	622.82	TW=EOP
F	622.75	TW=EOP
G	622.77	TW=EOP
H	622.75	TW=EOP
I	622.65	TW
J	622.56	TW
K	622.57	MATCH
L	622.48	MATCH

POINT	ELEV	NOTE
A	622.47	MATCH
B	622.45	MATCH
C	622.55	TW
D	622.53	TW
E	622.70	TW=EOP
F	622.69	TW=EOP
G	622.62	TW=EOP
H	622.60	TW=EOP
I	622.52	TW
J	622.57	TW
K	622.44	MATCH
L	622.50	MATCH
M	623.89	MATCH
N	623.81	MATCH
O	623.78	TW=TC
P	623.82	TW=TC
Q	624.01	TW=TC
R	623.90	TW=TC
S	623.68	MATCH
T	623.56	MATCH

LEGEND

-  DETECTABLE WARNINGS
 -  DEPRESSED CURB AND GUTTER
 -  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
 -  PROPOSED SIDEWALK TURNING SPACE
- TW PROPOSED TOP-OF-WALK ELEVATION
 TC PROPOSED TOP-OF-CURB ELEVATION
 EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
 MATCH MATCH EXISTING ELEVATION
 EP EXISTING EDGE-OF-PAVEMENT ELEVATION
 FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

EX SIDEWALK REMOVAL = 57 SF
 PR PCC SIDEWALK 5 IN = 57 SF

NOTE: BIKE PATH SHALL BE
 REMOVED TO A DEPTH OF 5".

WILLOW RD

LAGOON DR

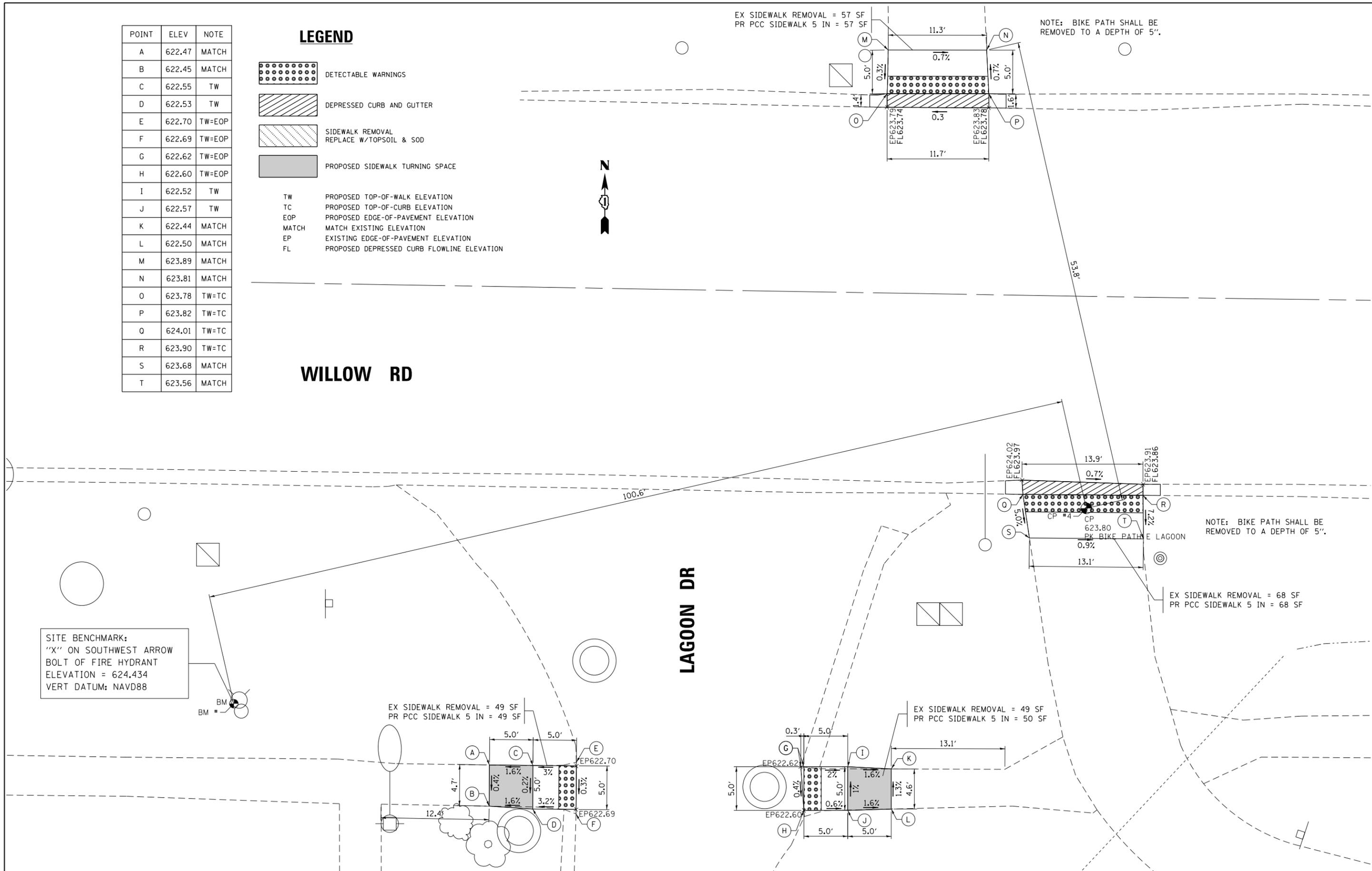
SITE BENCHMARK:
 "X" ON SOUTHWEST ARROW
 BOLT OF FIRE HYDRANT
 ELEVATION = 624.434
 VERT DATUM: NAVD88

EX SIDEWALK REMOVAL = 49 SF
 PR PCC SIDEWALK 5 IN = 49 SF

EX SIDEWALK REMOVAL = 49 SF
 PR PCC SIDEWALK 5 IN = 50 SF

EX SIDEWALK REMOVAL = 68 SF
 PR PCC SIDEWALK 5 IN = 68 SF

NOTE: BIKE PATH SHALL BE
 REMOVED TO A DEPTH OF 5".

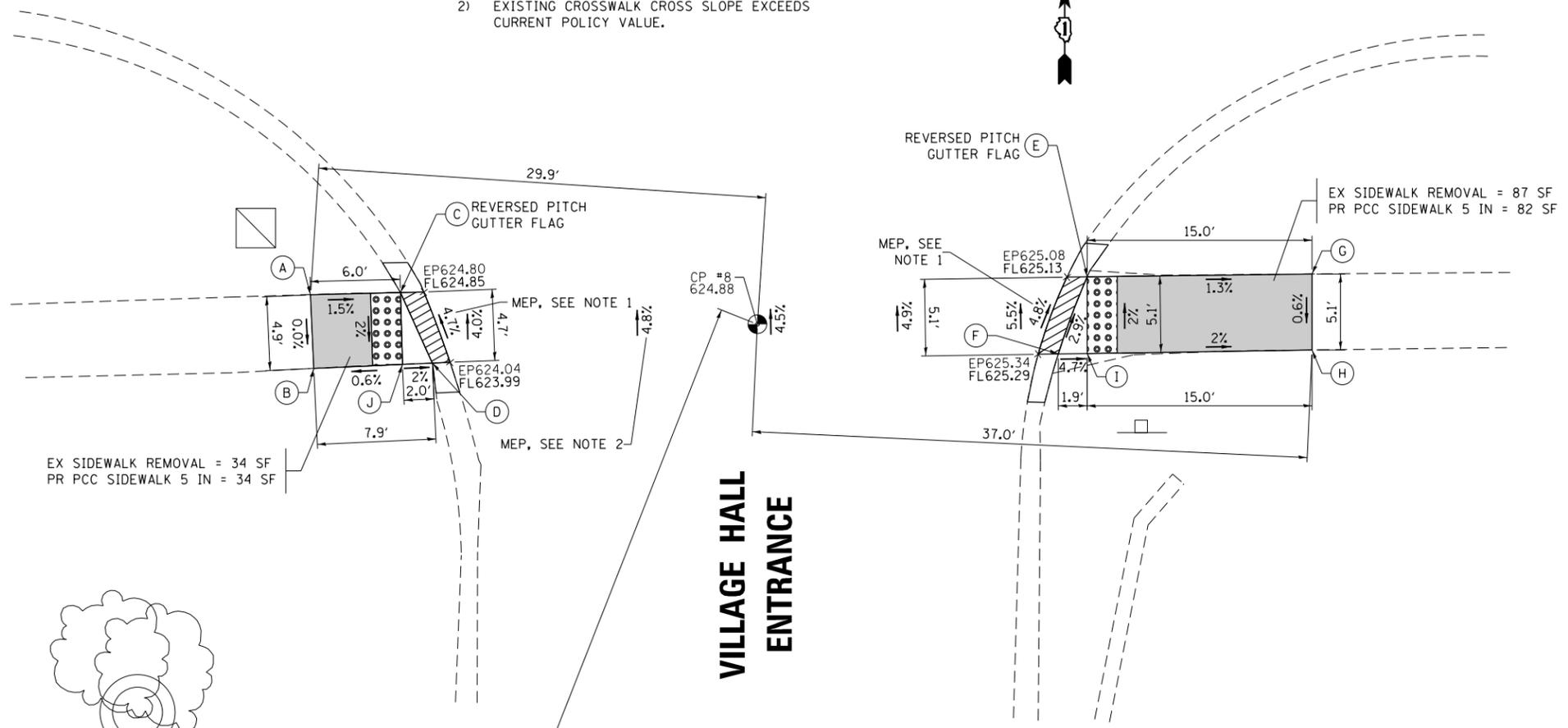


FILE NAME = 62C94-sht-plan04.dgn	USER NAME = Dwhite	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIDEWALK DETAIL PLAN WILLOW ROAD AT LAGOON DRIVE			F.A.U. RTE. 3561	SECTION 2016-04IRS	COUNTY COOK	TOTAL SHEETS 43	SHEET NO. 16
Default	PLOT SCALE = 10.0000 "/>											
PLOT DATE = 10/20/2016	CHECKED -	REVISED -	REVISED -		SCALE: 1" = 5'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62C94				
	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							

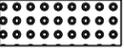
WILLOW RD

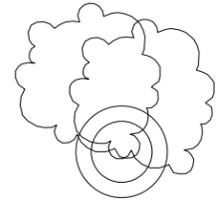
NOTES:

- 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

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE
- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION



POINT	ELEV	NOTE
A	624.98	MATCH
B	624.98	MATCH
C	624.89	TW=TC
D	625.03	TW=TC
E	625.17	TW=TC
F	625.33	TW=TC
G	624.97	MATCH
H	624.94	MATCH
I	625.24	TW
J	624.93	TW

SITE BENCHMARK:
"X" ON NORTHWEST ARROW
BOLT OF FIRE HYDRANT
ELEVATION = 629.287
VERT DATUM: NAVD88

BM #1500



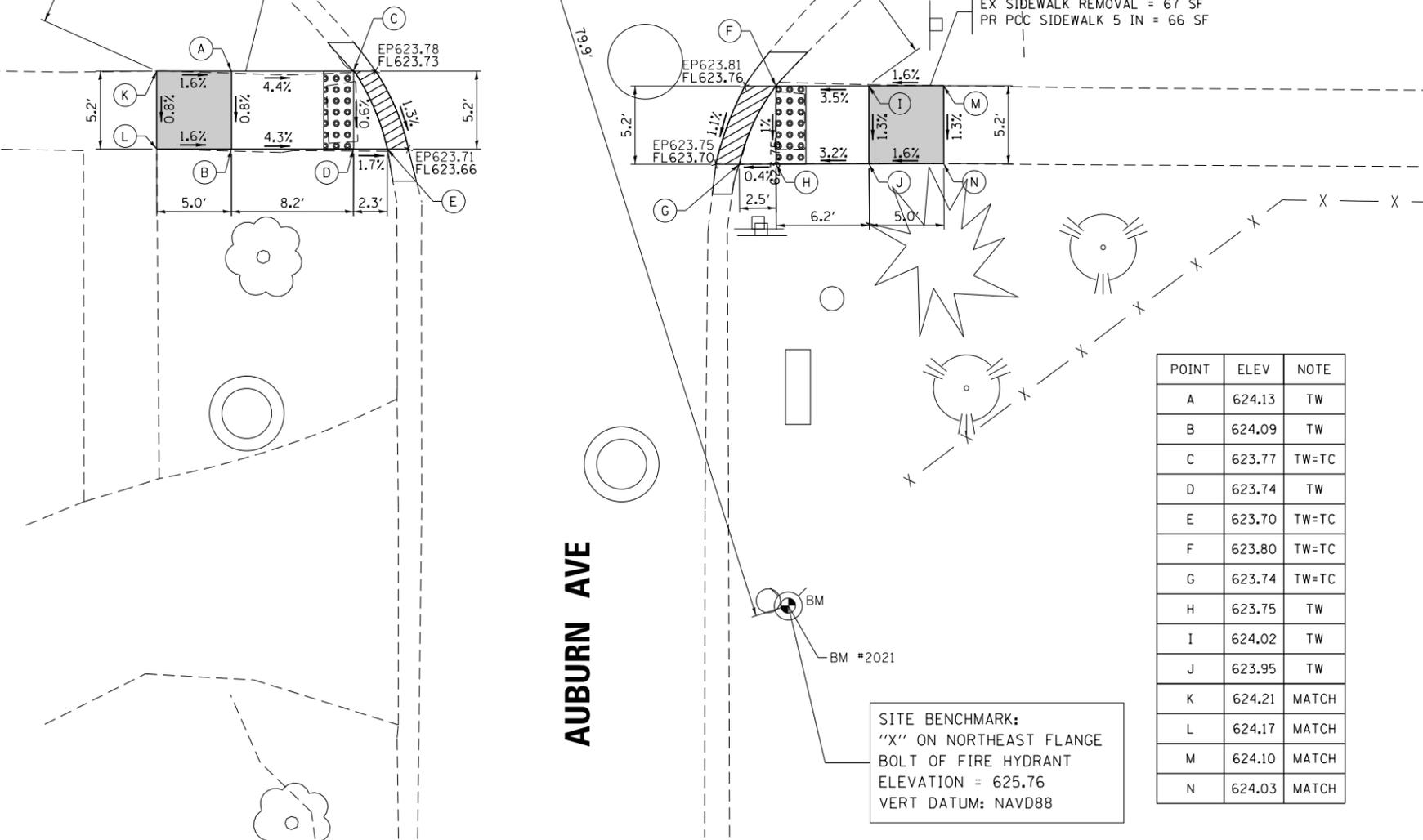
WILLOW RD

AUBURN AVE

CP
623.82
PK PRESB CHURCH EXIT

EX SIDEWALK REMOVAL = 76 SF
PR PCC SIDEWALK 5 IN = 76 SF

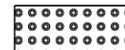
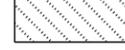
EX SIDEWALK REMOVAL = 67 SF
PR PCC SIDEWALK 5 IN = 66 SF



POINT	ELEV	NOTE
A	624.13	TW
B	624.09	TW
C	623.77	TW=TC
D	623.74	TW
E	623.70	TW=TC
F	623.80	TW=TC
G	623.74	TW=TC
H	623.75	TW
I	624.02	TW
J	623.95	TW
K	624.21	MATCH
L	624.17	MATCH
M	624.10	MATCH
N	624.03	MATCH

SITE BENCHMARK:
"X" ON NORTHEAST FLANGE
BOLT OF FIRE HYDRANT
ELEVATION = 625.76
VERT DATUM: NAVD88

LEGEND

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE
- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

FILE NAME =
62C94-sht-plan07.dgn

USER NAME = Dwhite

DESIGNED -
DRAWN -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
WILLOW ROAD AT AUBURN AVENUE

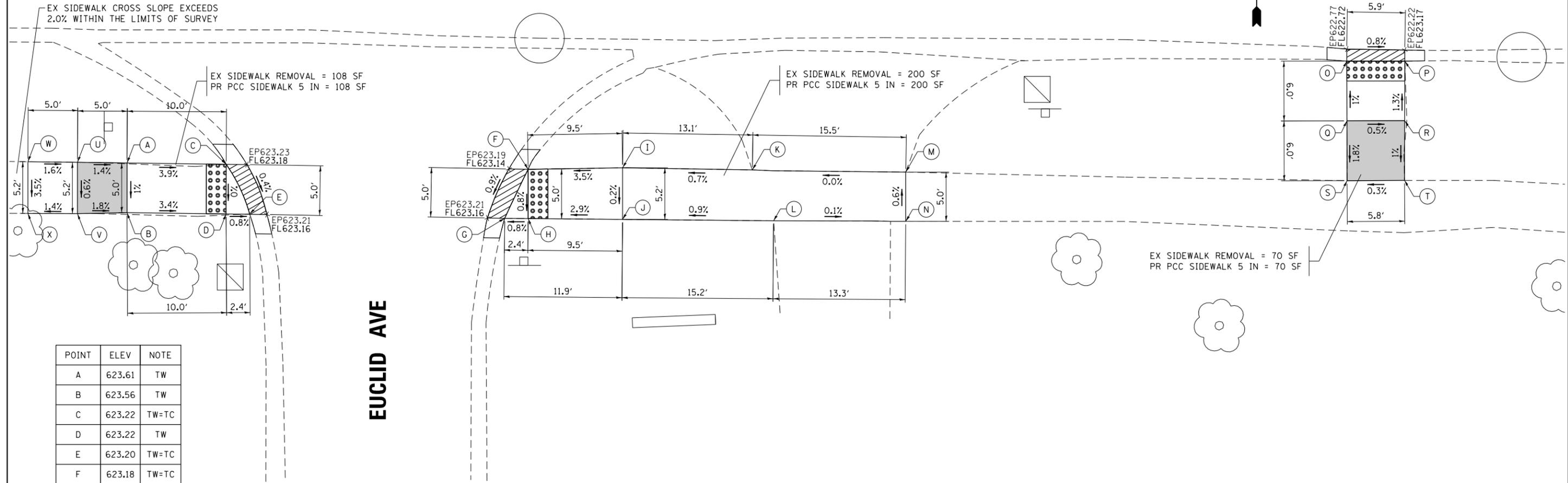
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-04IRS	COOK	43	19

CONTRACT NO. 62C94

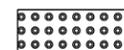
SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

WILLOW RD



LEGEND

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE

- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

FILE NAME = 62C94-sht-plan08.dgn
Default

USER NAME = Dwhite
PLOT SCALE = 10.0000' / in.
PLOT DATE = 10/20/2016

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN
WILLOW ROAD AT EUCLID AVENUE**

SCALE: 1" = 5'
SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-04IRS	COOK	43	20
CONTRACT NO. 62C94				
ILLINOIS FED. AID PROJECT				

EX SIDEWALK CROSS SLOPE EXCEEDS 2.0% WITHIN THE LIMITS OF SURVEY

EX SIDEWALK REMOVAL = 388 SF
PR PCC SIDEWALK 5 IN = 388 SF

EX SIDEWALK REMOVAL = 109 SF
PR PCC SIDEWALK 5 IN = 109 SF

GLENDALE AVE

WILLOW RD

MANHOLES TO BE ADJUSTED

SITE BENCHMARK:
SPIKE IN NORTH FACE OF
POWER POLE WITH LIGHT
ELEVATION = 624.762
VERT DATUM: NAVD88

LEGEND

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE

- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

POINT	ELEV	NOTE
A	623.22	MATCH
B	623.02	MATCH
C	623.17	TW
D	623.09	TW
E	623.25	TW
F	623.17	TW
G	624.01	MATCH
H	623.80	MATCH
I	623.94	TW
J	623.88	TW
K	623.86	TW
L	623.80	TW
M	623.45	TW
N	623.40	TW
O	622.86	TW=TC
P	622.88	TW=TC
Q	622.90	TW
R	623.88	TW
S	623.96	TW
T	623.95	MATCH
U	624.03	MATCH
V	623.55	MATCH
W	623.56	MATCH
X	623.50	TW
Y	623.51	TW
Z	623.08	TW=TC
AA	623.19	TW
BB	623.09	TW=TC
CC	623.20	TW
DD	623.59	TW
EE	623.69	TW
FF	623.64	MATCH
GG	623.61	MATCH
HH	623.37	TW
II	623.32	TW
JJ	622.97	TW
KK	622.94	TW=TC
LL	622.93	TW=TC
MM	623.02	TW
NN	622.98	MATCH
OO	622.99	MATCH

FILE NAME = 62C94-sht-plan10.dgn	USER NAME = Dwhite	DESIGNED -	REVISED -
Default	PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 10/20/2016	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
WILLOW ROAD AT GLENDALE AVENUE

SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 3561	SECTION 2016-041RS	COUNTY COOK	TOTAL SHEETS 43	SHEET NO. 22
CONTRACT NO. 62C94				
ILLINOIS FED. AID PROJECT				

LEGEND

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE

- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

SITE BENCHMARK:
"X" ON NORTHWEST ARROW
BOLT OF FIRE HYDRANT
ELEVATION = 625.297
VERT DATUM: NAVD88



WILLOW RD

GLENDALE AVE

EX SIDEWALK REMOVAL = 129 SF
PR PCC SIDEWALK 5 IN = 129 SF

EX SIDEWALK REMOVAL = 96 SF
PR PCC SIDEWALK 5 IN = 109 SF

POINT	ELEV	NOTE
A	623.55	TW
B	623.70	TW
C	623.19	TW=TC
D	623.29	TW
E	623.27	TW=TC
F	623.27	TW=TC
G	623.33	TW=TC
H	623.34	TW
I	623.88	TW
J	623.98	TW
K	623.54	MATCH
L	623.60	MATCH
M	623.93	MATCH
N	624.02	MATCH

NOTES:

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

EX SIDEWALK REMOVAL = 82 SF
PR PCC SIDEWALK 5 IN = 82 SF

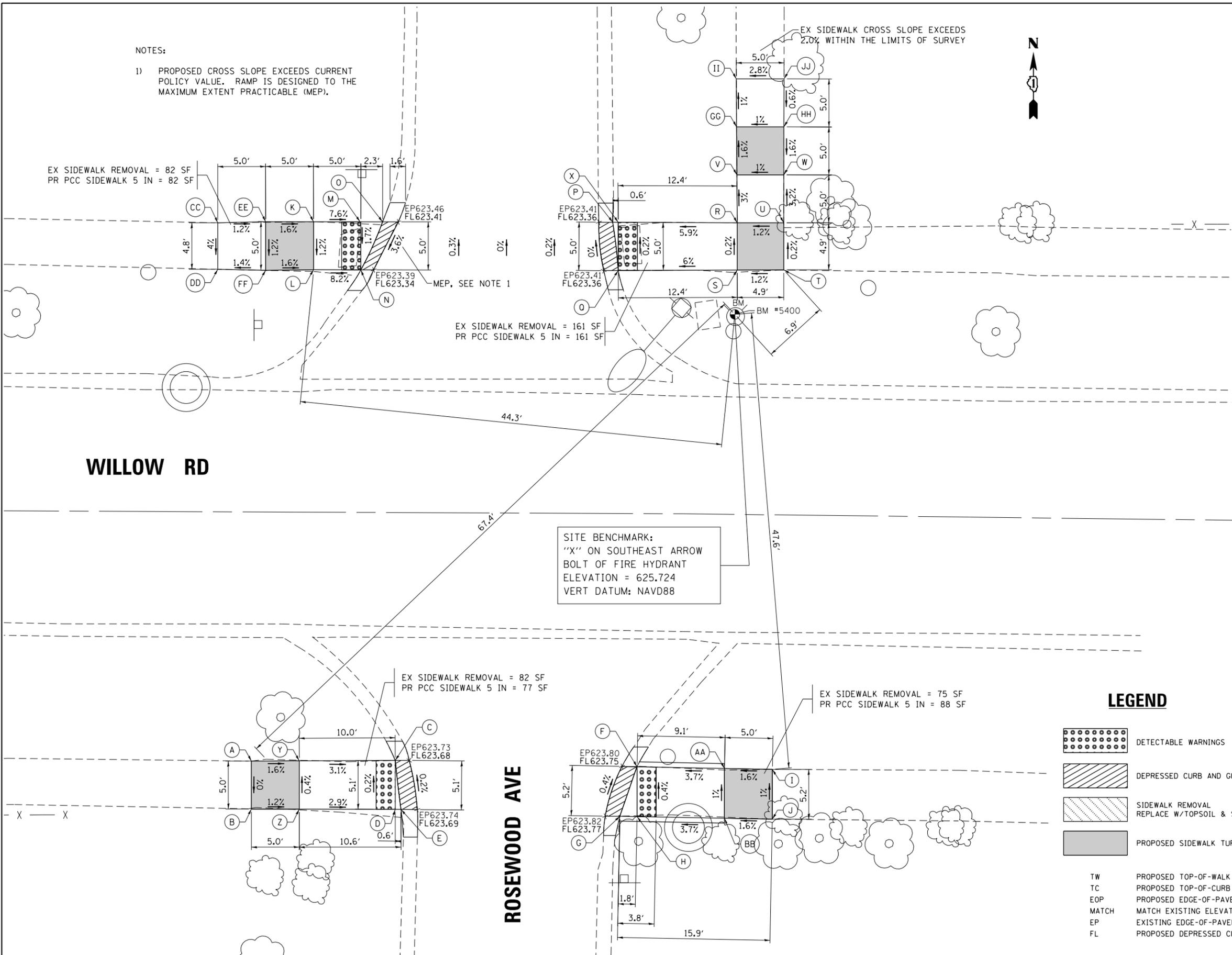
EX SIDEWALK REMOVAL = 161 SF
PR PCC SIDEWALK 5 IN = 161 SF

EX SIDEWALK REMOVAL = 75 SF
PR PCC SIDEWALK 5 IN = 88 SF

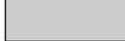
EX SIDEWALK REMOVAL = 82 SF
PR PCC SIDEWALK 5 IN = 77 SF

SITE BENCHMARK:
"X" ON SOUTHEAST ARROW
BOLT OF FIRE HYDRANT
ELEVATION = 625.724
VERT DATUM: NAVD88

POINT	ELEV	NOTE	POINT	ELEV	NOTE
A	624.11	MATCH	S	624.15	TW
B	624.11	MATCH	T	624.21	MATCH
C	623.72	TW=TC	U	624.20	MATCH
D	623.74	TW	V	623.99	TW
E	623.73	TW=TC	W	624.04	MATCH
F	623.79	TW=TC	X	623.41	TW
G	623.81	TW=TC	Y	624.03	TW
H	623.84	TW	Z	624.05	TW
I	624.21	MATCH	AA	624.13	TW
J	624.26	MATCH	BB	624.18	TW
K	623.85	TW	CC	623.99	MATCH
L	623.79	TW	DD	623.80	MATCH
M	623.47	TW	EE	623.93	TW
N	623.38	TW=TC	FF	623.87	TW
O	623.45	TW=TC	GG	623.91	TW
P	623.40	TW=TC	HH	623.96	TW
Q	623.40	TW=TC	II	623.86	MATCH
R	624.14	TW	JJ	623.99	MATCH



LEGEND

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE
- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

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USER NAME = Dwhite
PLOT SCALE = 10.0000 "/in.
PLOT DATE = 10/20/2016

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN
WILLOW ROAD AT ROSEWOOD AVENUE**

SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-04IRS	COOK	43	24

CONTRACT NO. 62C94
ILLINOIS FED. AID PROJECT

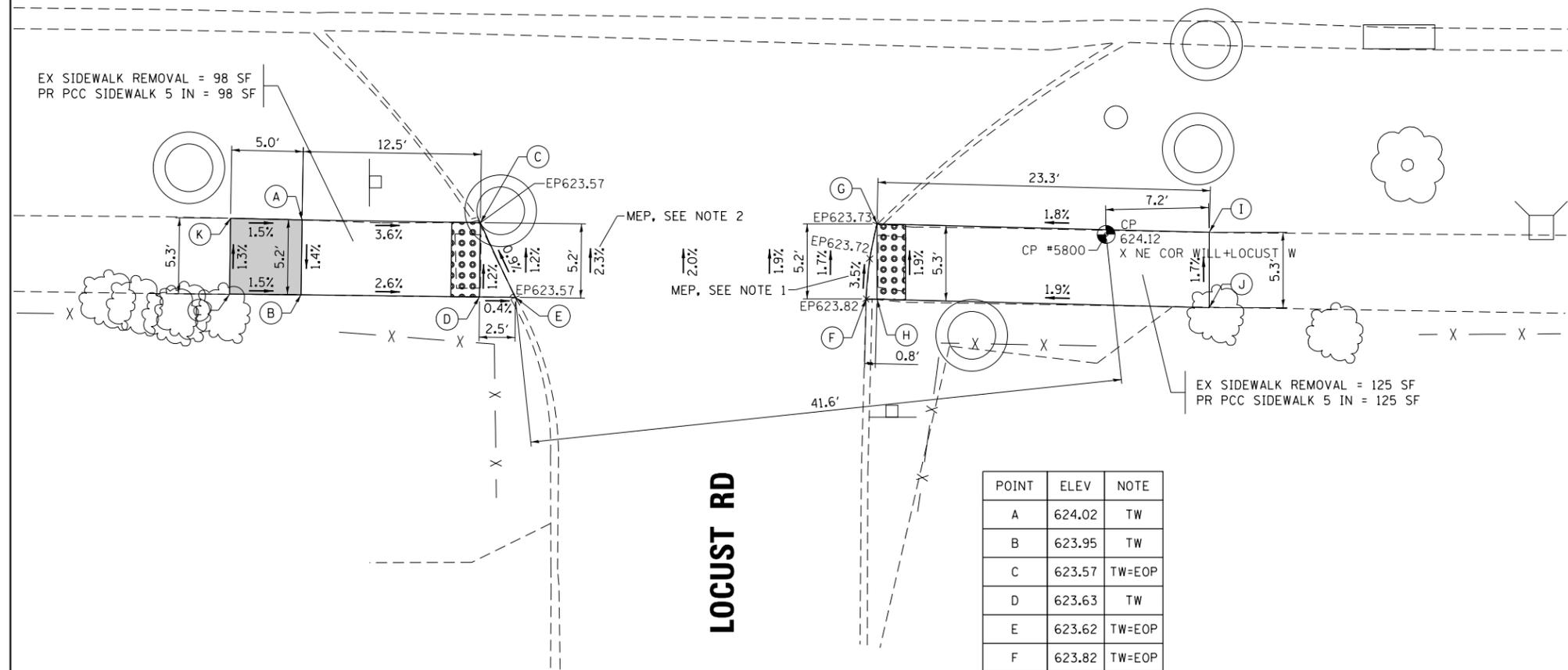


WILLOW RD

NOTES:

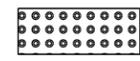
- 1) PROPOSED CROSS SLOPE EXCEEDS CURRENT POLICY VALUE. RAMP IS DESIGNED TO THE MAXIMUM EXTENT PRACTICABLE (MEP).
- 2) EXISTING CROSSWALK CROSS SLOPE EXCEEDS CURRENT POLICY VALUE.

EX SIDEWALK REMOVAL = 98 SF
PR PCC SIDEWALK 5 IN = 98 SF



EX SIDEWALK REMOVAL = 125 SF
PR PCC SIDEWALK 5 IN = 125 SF

LEGEND

-  DETECTABLE WARNINGS
-  DEPRESSED CURB AND GUTTER
-  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
-  PROPOSED SIDEWALK TURNING SPACE
- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

POINT	ELEV	NOTE
A	624.02	TW
B	623.95	TW
C	623.57	TW=EOP
D	623.63	TW
E	623.62	TW=EOP
F	623.82	TW=EOP
G	623.73	TW=EOP
H	623.83	TW
I	624.14	MATCH
J	624.23	MATCH
K	624.10	MATCH
L	624.03	MATCH

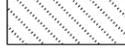
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

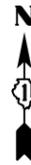
SIDEWALK DETAIL PLAN WILLOW ROAD AT LOCUST ROAD			
SCALE: 1" = 5'	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-04IRS	COOK	43	25
CONTRACT NO. 62C94				
ILLINOIS FED. AID PROJECT				

LEGEND

-  DETECTABLE WARNINGS
 -  DEPRESSED CURB AND GUTTER
 -  SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
 -  PROPOSED SIDEWALK TURNING SPACE
-
- TW PROPOSED TOP-OF-WALK ELEVATION
 - TC PROPOSED TOP-OF-CURB ELEVATION
 - EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
 - MATCH MATCH EXISTING ELEVATION
 - EP EXISTING EDGE-OF-PAVEMENT ELEVATION
 - FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION

POINT	ELEV	NOTE
A	624.41	TW
B	624.32	TW
C	624.20	TW
D	624.10	TW=TC
E	624.21	TW=TC
F	624.33	TW=TC
G	624.28	TW=TC
H	624.35	TW
I	624.55	TW
J	624.61	TW
K	624.60	MATCH
L	624.69	MATCH
M	624.49	MATCH
N	624.40	MATCH



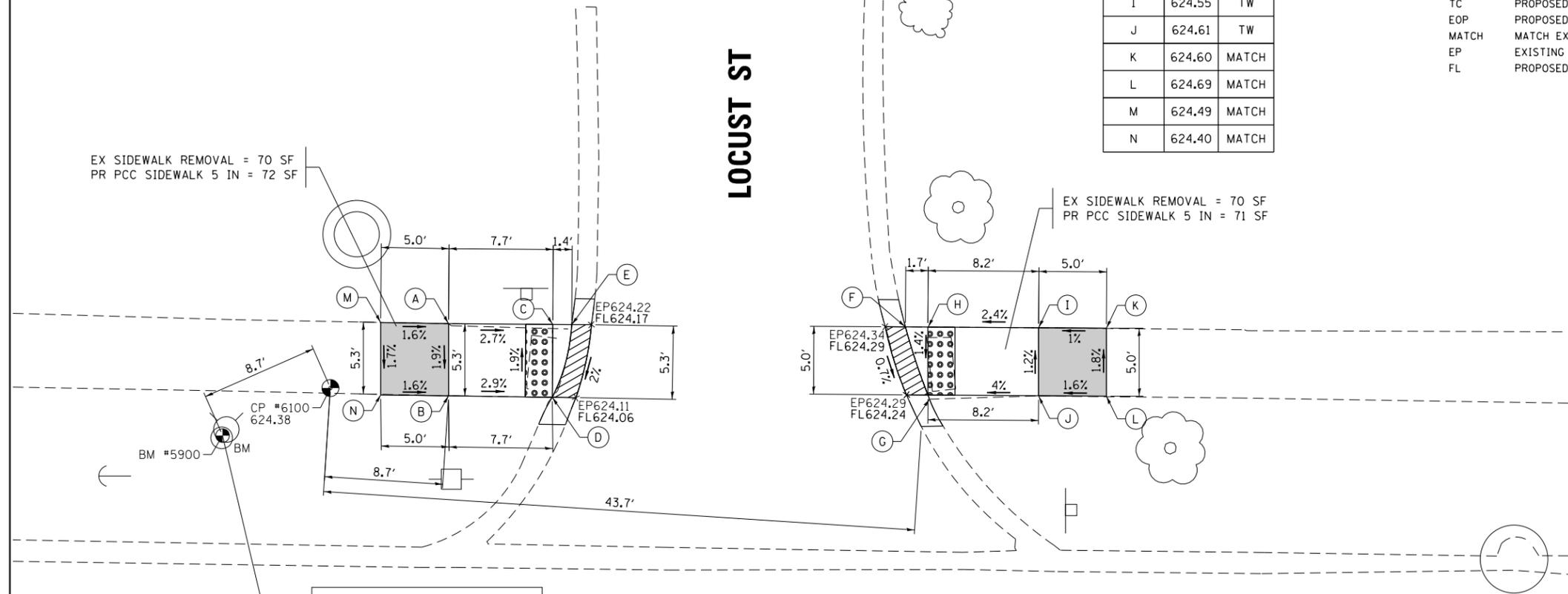
LOCUST ST

WILLOW RD

EX SIDEWALK REMOVAL = 70 SF
PR PCC SIDEWALK 5 IN = 72 SF

EX SIDEWALK REMOVAL = 70 SF
PR PCC SIDEWALK 5 IN = 71 SF

SITE BENCHMARK:
"X" ON NORTHEAST ARROW
BOLT OF FIRE HYDRANT
ELEVATION = 626.269
VERT DATUM: NAVD88



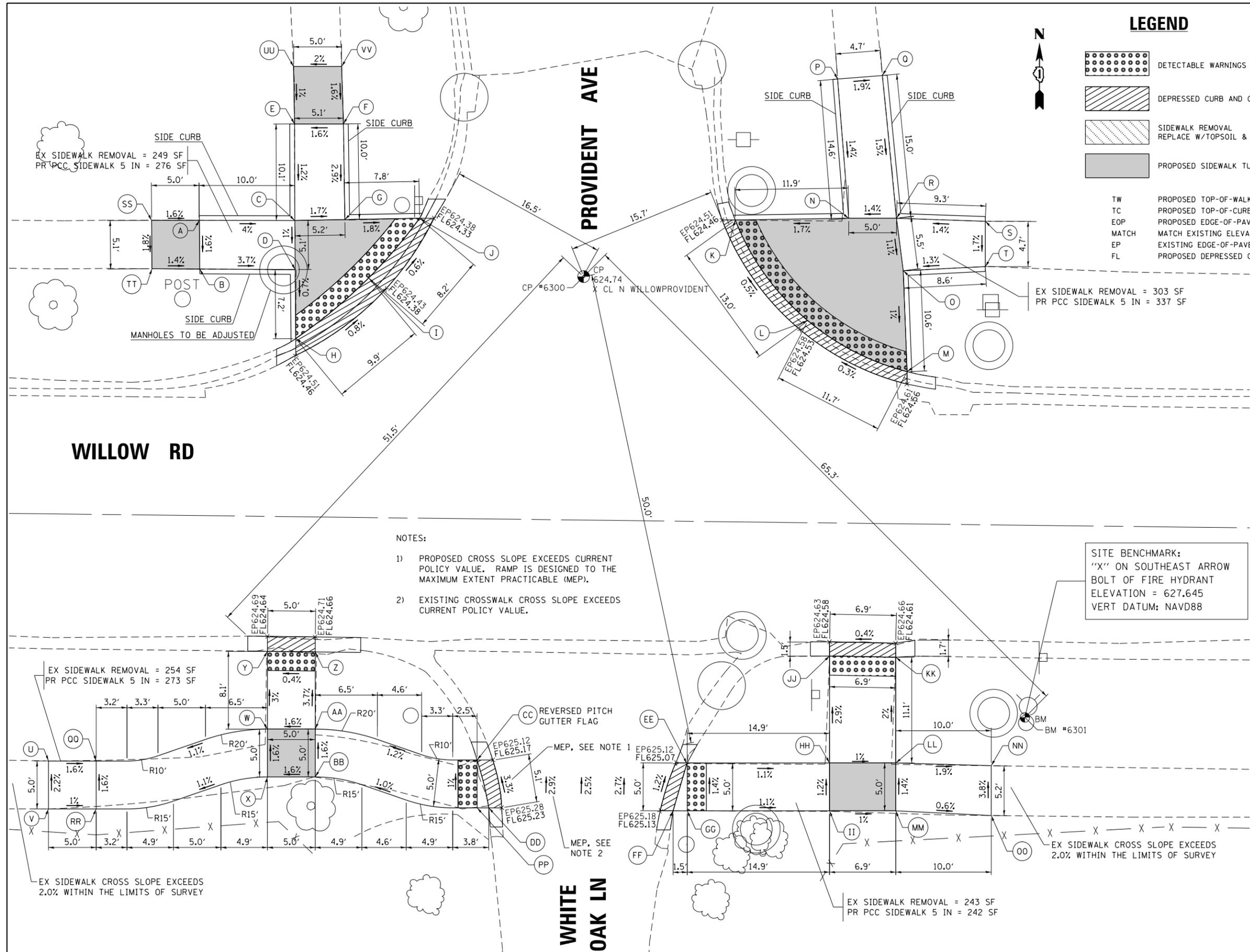
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	PLOT DATE = 10/20/2016	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN
WILLOW ROAD AT LOCUST STREET**

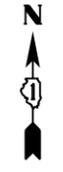
SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-04IRS	COOK	43	26
CONTRACT NO. 62C94				
ILLINOIS FED. AID PROJECT				



LEGEND

- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD
- PROPOSED SIDEWALK TURNING SPACE
- TW PROPOSED TOP-OF-WALK ELEVATION
- TC PROPOSED TOP-OF-CURB ELEVATION
- EOP PROPOSED EDGE-OF-PAVEMENT ELEVATION
- MATCH MATCH EXISTING ELEVATION
- EP EXISTING EDGE-OF-PAVEMENT ELEVATION
- FL PROPOSED DEPRESSED CURB FLOWLINE ELEVATION



NOTES:

- 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.

SITE BENCHMARK:
"X" ON SOUTHEAST ARROW
BOLT OF FIRE HYDRANT
ELEVATION = 627.645
VERT DATUM: NAVD88

POINT	ELEV	NOTE
A	625.00	TW
B	624.92	TW
C	624.60	TW
D	624.55	TW
E	624.72	TW
F	624.80	TW
G	624.51	TW
H	624.50	TW=TC
I	624.42	TW=TC
J	624.37	TW=TC
K	624.50	TW=TC
L	624.57	TW=TC
M	624.60	TW=TC
N	624.70	TW
O	624.71	TW
P	624.91	MATCH
Q	625.00	MATCH
R	624.77	TW
S	624.90	MATCH
T	624.82	MATCH
U	624.63	MATCH
V	624.74	MATCH
W	624.92	TW
X	625.00	TW
Y	624.68	TW=TC
Z	624.70	TW=TC
AA	625.00	TW
BB	625.08	TW
CC	625.21	TW=TC
DD	625.27	TW=TC
EE	625.11	TW=TC
FF	625.17	TW=TC
GG	625.18	TW
HH	624.94	TW
II	625.01	TW
JJ	624.62	TW=TC
KK	624.65	TW=TC
LL	624.87	TW
MM	624.94	TW
NN	624.69	MATCH
OO	624.89	MATCH
PP	625.26	TW
QQ	624.71	TW
RR	624.79	TW
SS	625.08	MATCH
TT	624.99	MATCH
UU	624.78	MATCH
VV	624.88	MATCH

FILE NAME = 62C94-sht-plan15.dgn
Default

USER NAME = Dwhite
PLOT SCALE = 10.0000' / in.
PLOT DATE = 10/20/2016

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

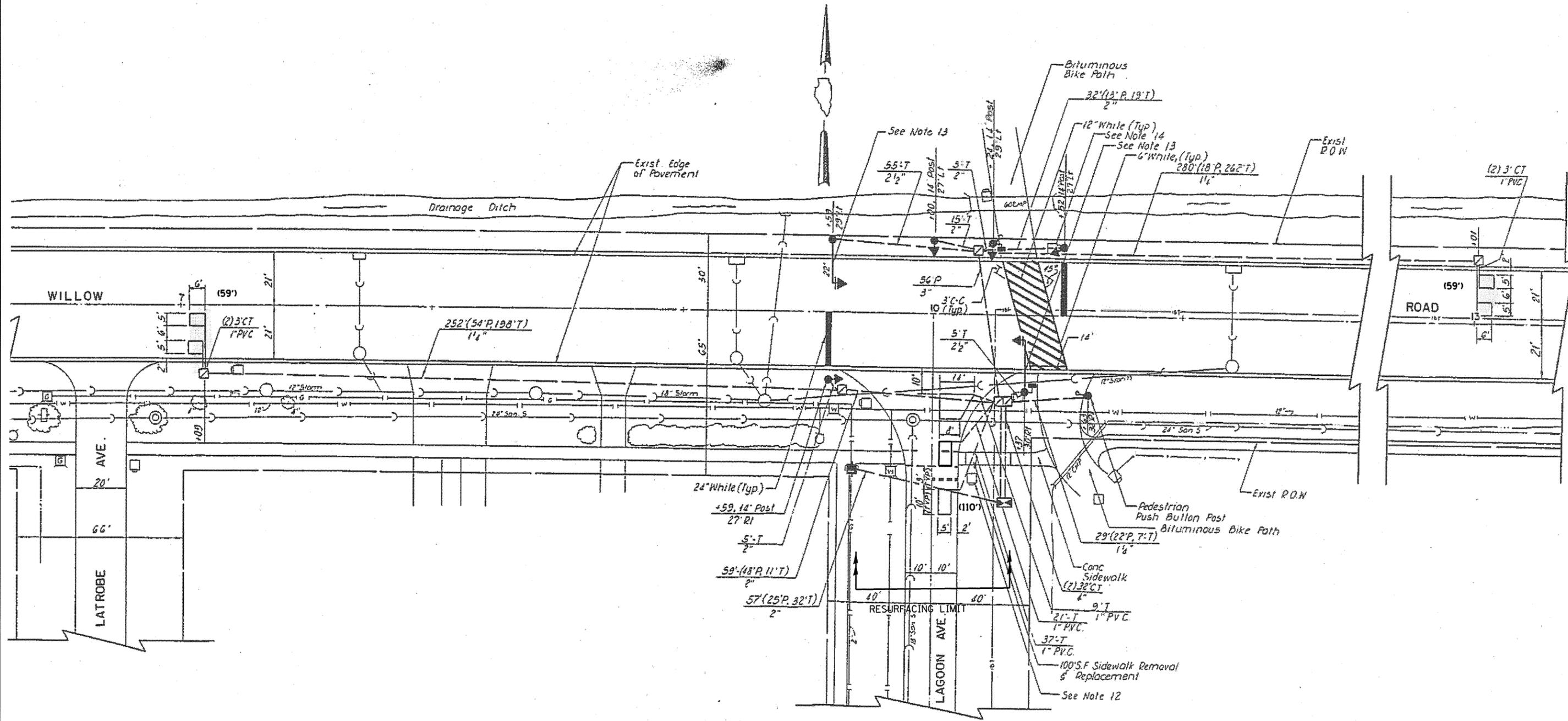
**SIDEWALK DETAIL PLAN
WILLOW ROAD AT PROVIDENT AVENUE/WHITE OAK LANE**

SCALE: 1" = 5'
SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	27
CONTRACT NO. 62C94				
ILLINOIS FED. AID PROJECT				

NOTES:

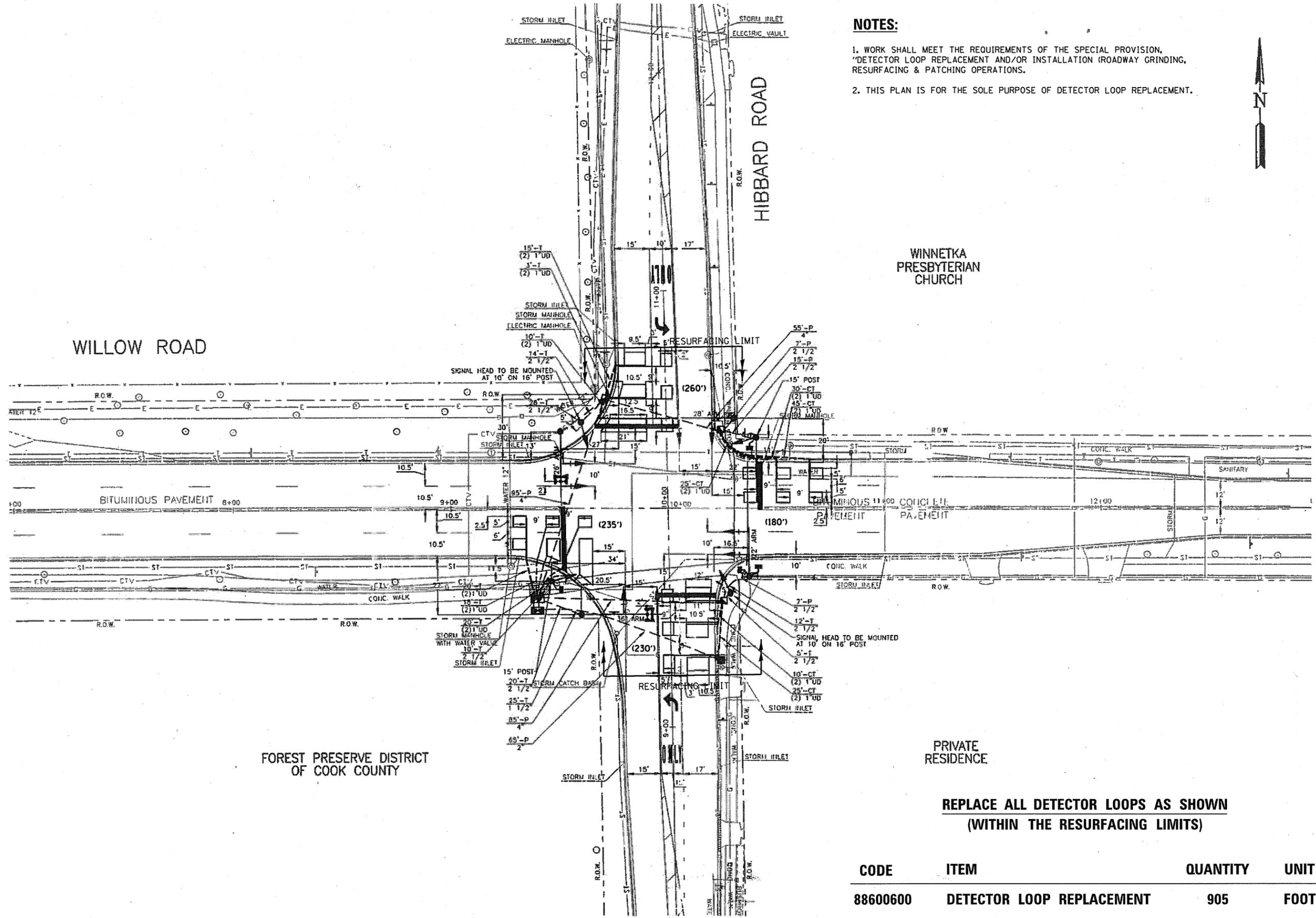
1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	228	FOOT

FILE NAME =	USER NAME = nguyensm	DESIGNED - SN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN WILLOW ROAD AT LAGOON DR.	F.A.U. RTE. 3561	SECTION 2016-041RS	COUNTY COOK	TOTAL SHEETS 43	SHEET NO. 28		
S:\WP\Design\SNV.B. of Design - Detector	Loops Replacement - Resurfacing project -	DRAWN 2016\62C9N.CADD\TS 14467 - W	REVISION dngn			SCALE:	SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 62C94				
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SN	REVISED -			ILLINOIS FED. AID PROJECT						
	PLOT DATE = 10/3/2016	DATE - 9/29/2016	REVISED -									



NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

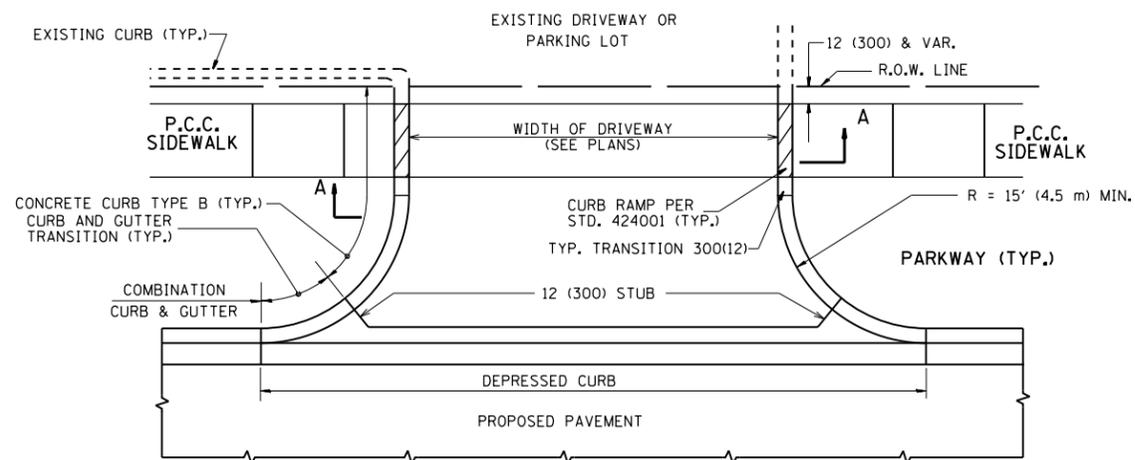


PRIVATE RESIDENCE

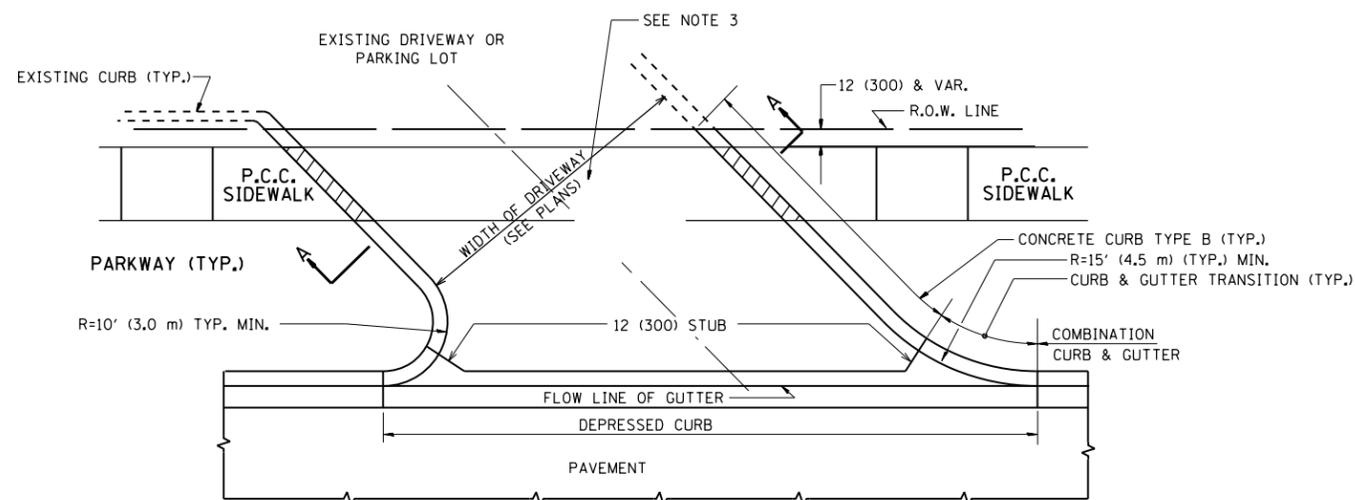
**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	905	FOOT

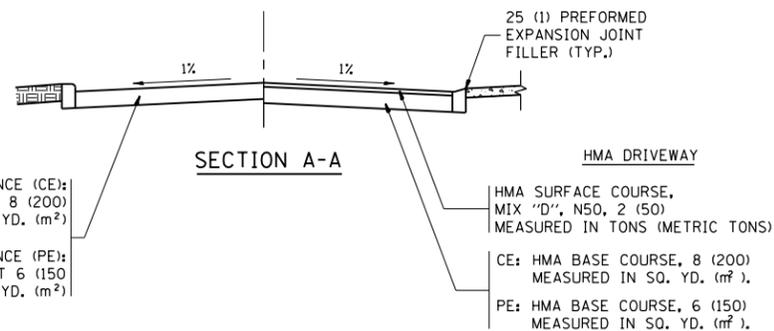
FILE NAME =	USER NAME = nguyensm	DESIGNED - SN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN WILLOW ROAD AT HIBBARD ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\WP\Design\SN\B. of Design - Detector	Loops Replacement - Resurfacing project -	DRAWN 2016\62C94\SN\CADD\TS 15365 - Hib	REVISED Willow Rd.dgn			3561	2016-041RS	COOK	43	29	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - SN	REVISED -			CONTRACT NO. 62C94					
	PLOT DATE = 10/3/2016	DATE - 9/29/2016	REVISED -			ILLINOIS FED. AID PROJECT					



WITH CONCRETE CURB, TYPE B

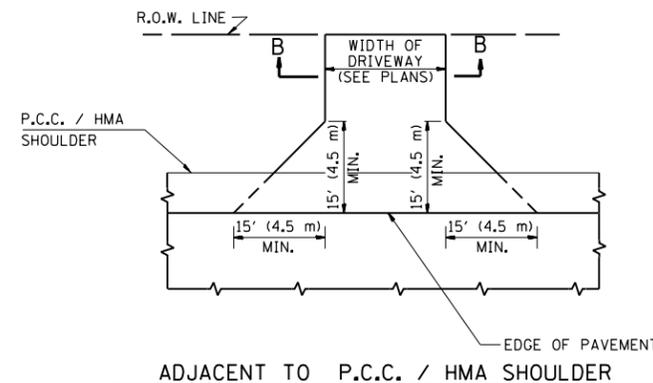


WITH CONCRETE CURB, TYPE B

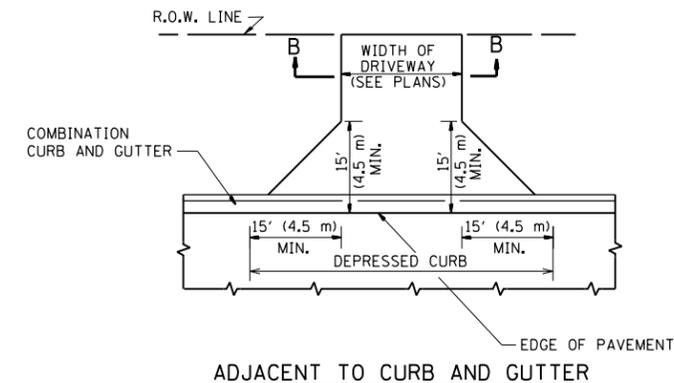


RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE):
 P.C.C. DRIVEWAY PAVEMENT 8 (200)
 MEASURED IN SQ. YD. (m²)
 NON-COMMERCIAL ENTRANCE (PE):
 P.C.C. DRIVEWAY PAVEMENT 6 (150)
 MEASURED IN SQ. YD. (m²)

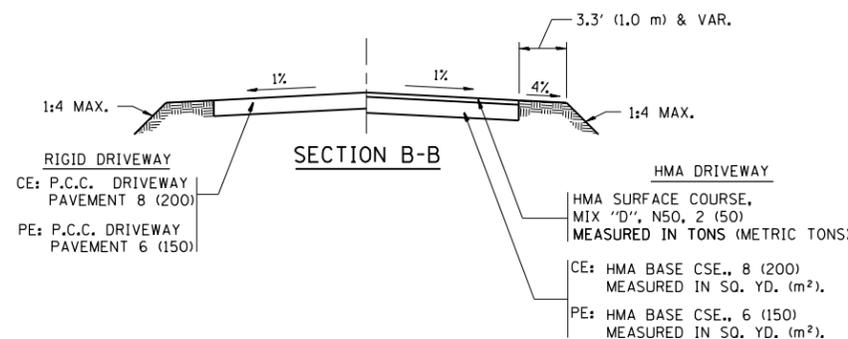
HMA DRIVEWAY
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²),
 PE: HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²).



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

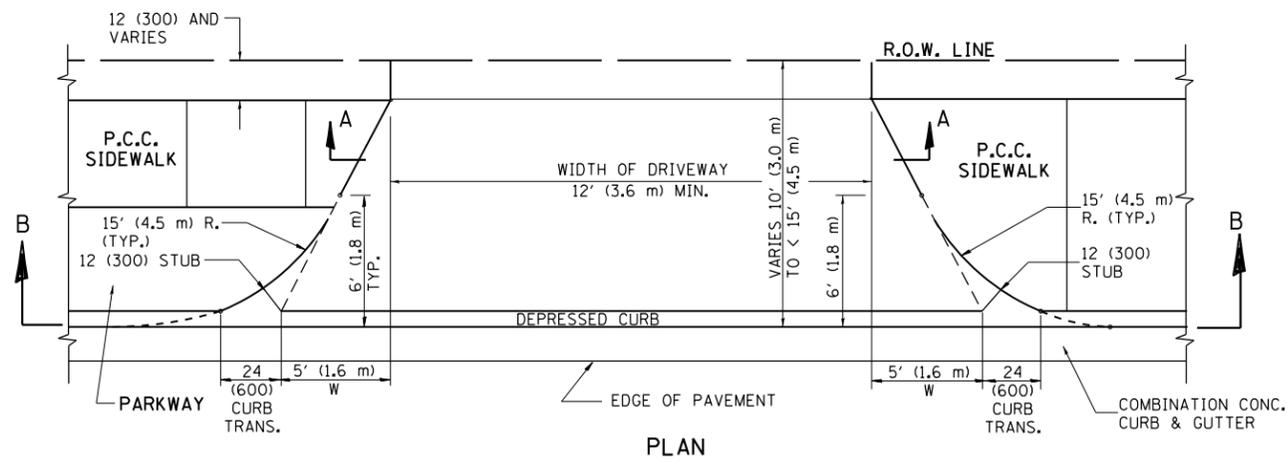
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = toriafm	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\01421\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - R. BORO 01-01-07
		DATE - 11-04-95	REVISED - R. BORO 06-11-08
			REVISED - R. BORO 09-06-11

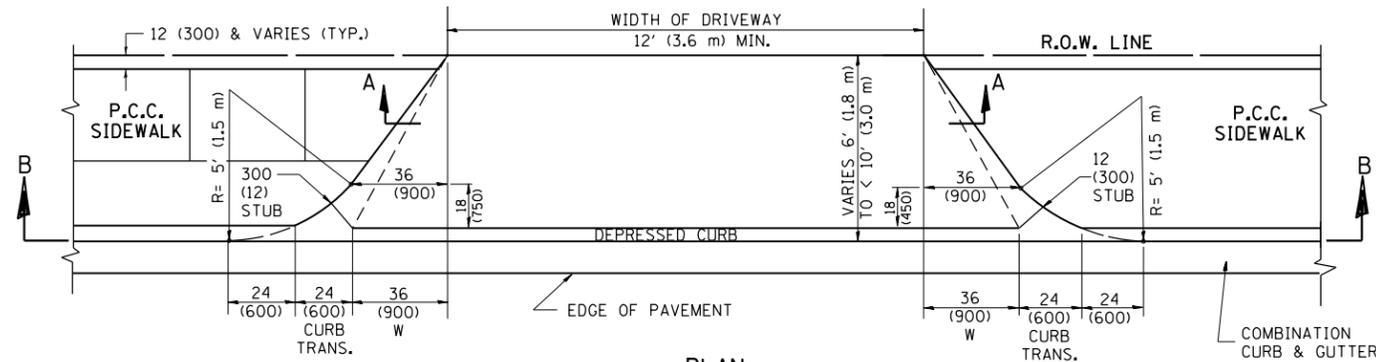
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

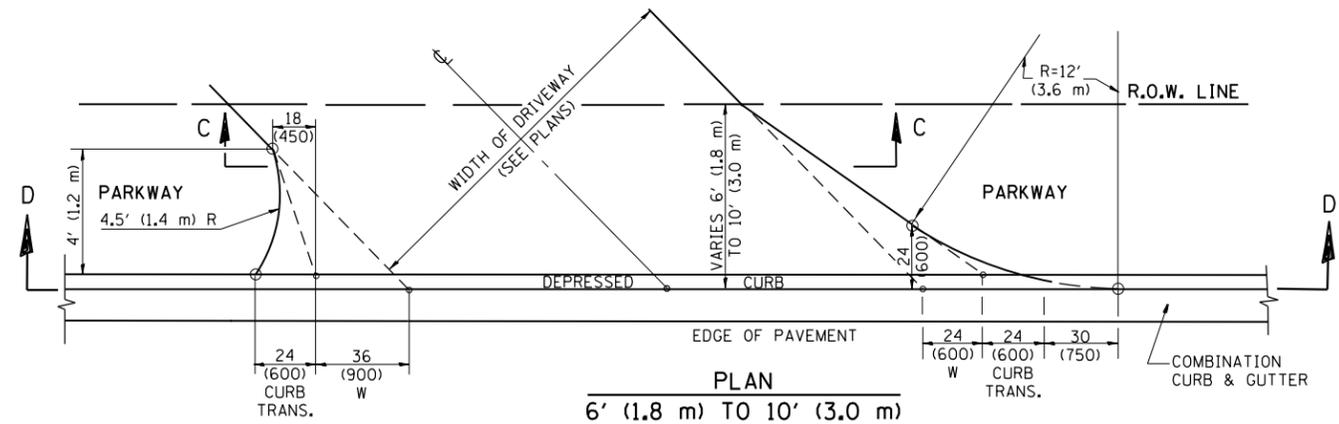
F.A.U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	30
BD0156-07 (BD-01)		CONTRACT NO. 62C94		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



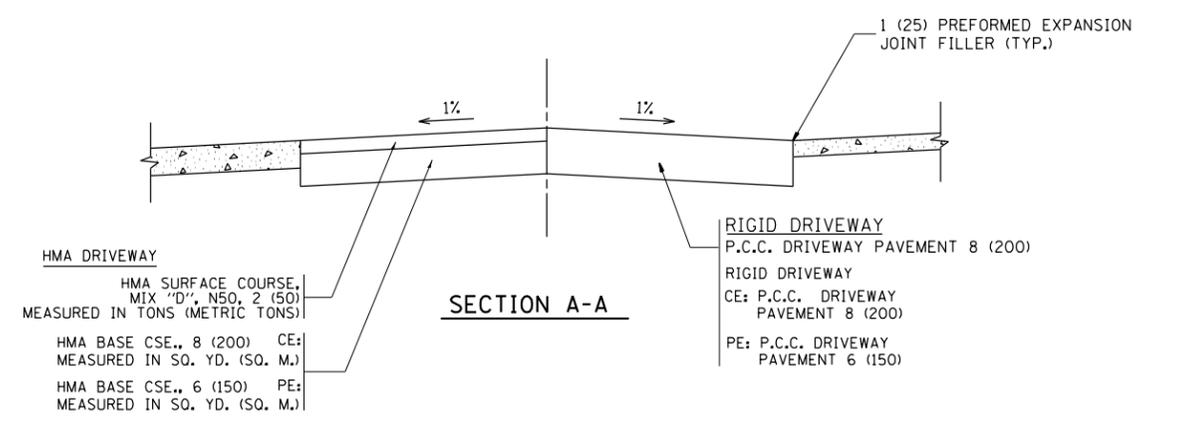
PLAN
10' (3.0 m) TO < 15' (4.5 m)



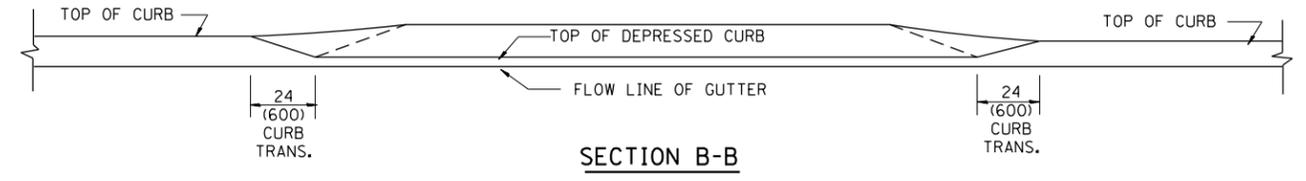
PLAN
6' (1.8 m) TO < 10' (3.0 m)



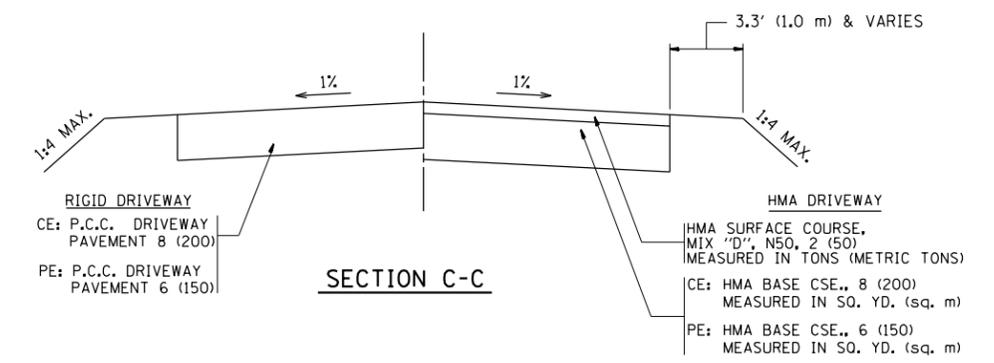
PLAN
6' (1.8 m) TO 10' (3.0 m)



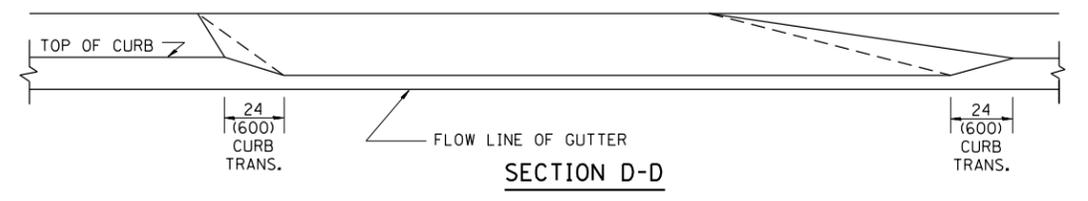
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

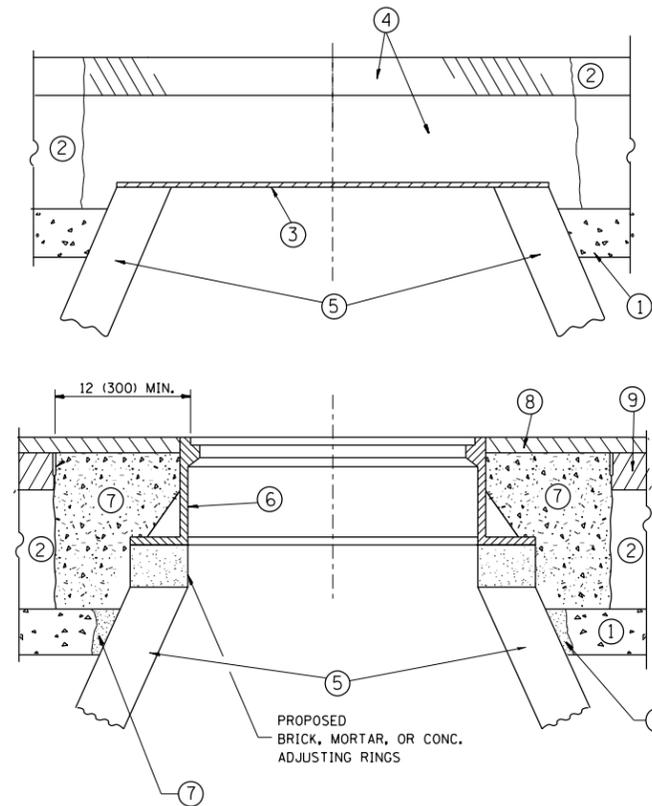
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = toriafm	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
p:\1\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\0142\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - P. LaFLEUR 04-15-03
		PLOT SCALE = 100.0000' / 1"	REVISED - R. BORO 01-01-07
		PLOT DATE = 10/21/2016	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	31
BD400-02 (BD-02)		CONTRACT NO. 62C94		
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 1/2 (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
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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.

NOTES:

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

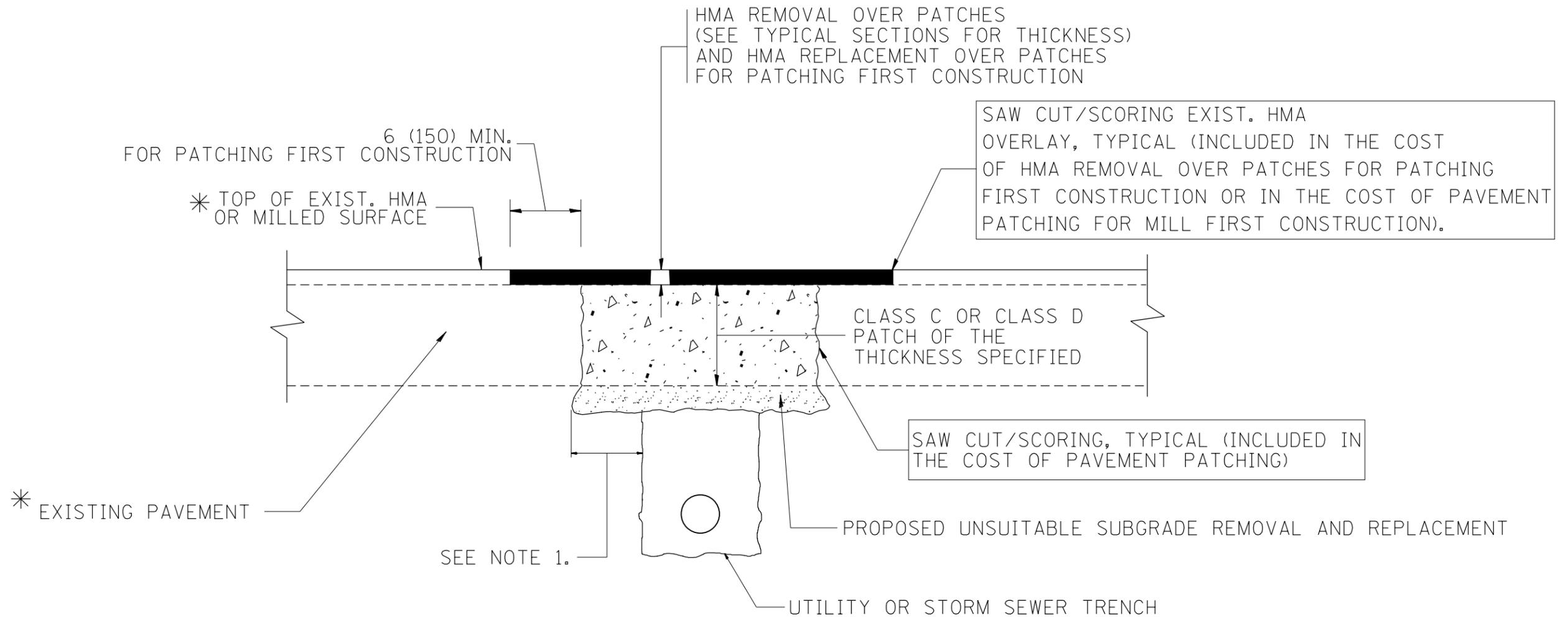
FILE NAME =	USER NAME = toriafm	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
p:\1\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\014121\Drawings\Design\Diststd.dgn			REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 10/21/2016	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	32
BD600-03 (BD-8)		CONTRACT NO. 62C94		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 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 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 = tar1qfm	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI42\Drawings\Design\Diststd.dgn		CHECKED -	REVISED - R. BORO 01-01-07					3561	2016-041RS	COOK	43	33
PLOT SCALE = 100.0000' / 1" =		DATE - 10-25-94	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 62C94				
PLOT DATE = 10/21/2016			REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

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

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

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

18" (450) MAX.

T/2 *

3" (75) MIN.

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

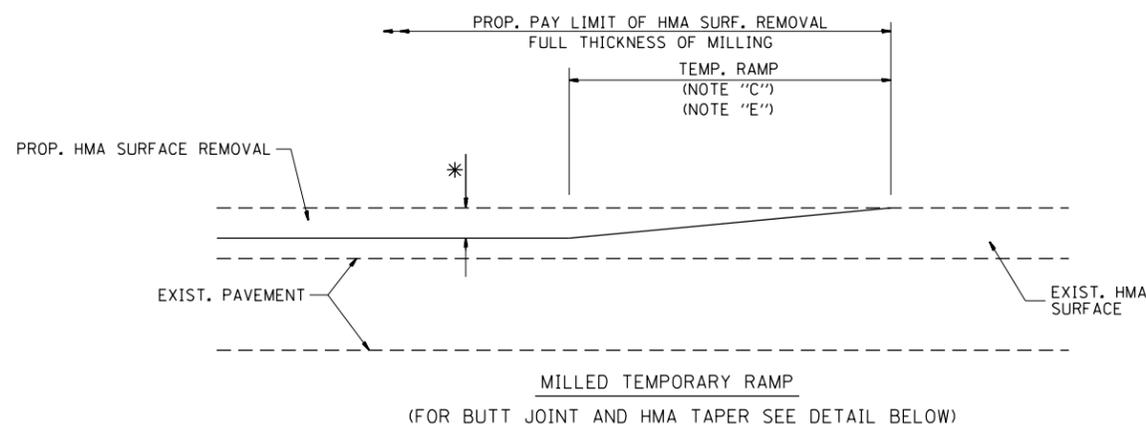
⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

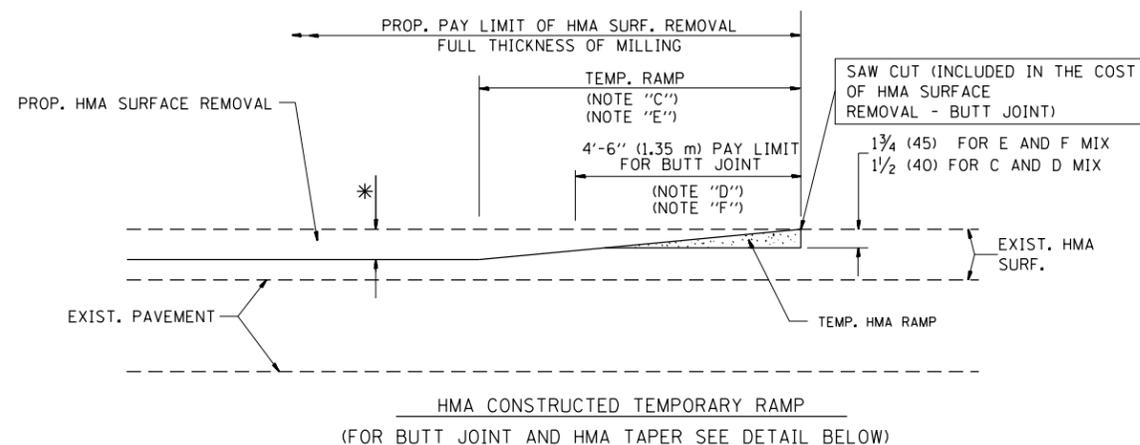
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = toriafm	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\014121\Drawings\Design\Diststd.dgn		REVISOR - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			3561	2016-041RS	COOK	43	34
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISOR - R. BORO 12-15-09				BD600-06 (BD-24)		CONTRACT NO. 62C94		
PLOT DATE = 10/21/2016	DATE - 03-11-94					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

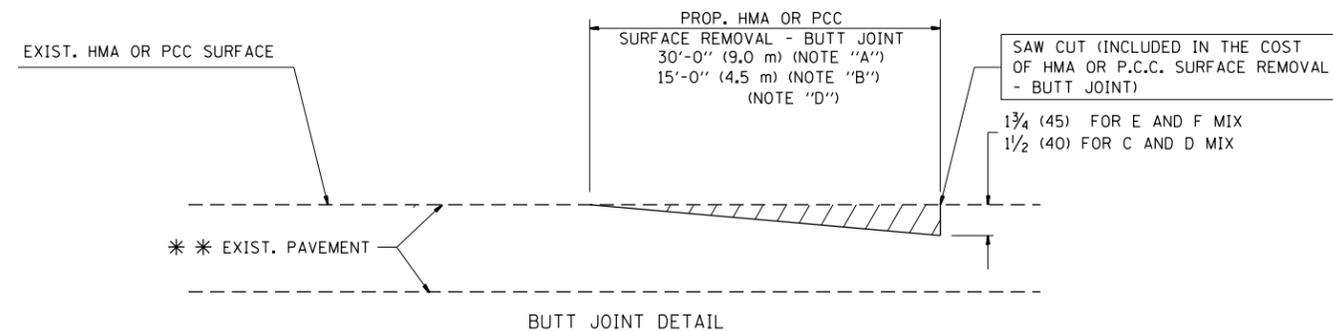


OPTION 1

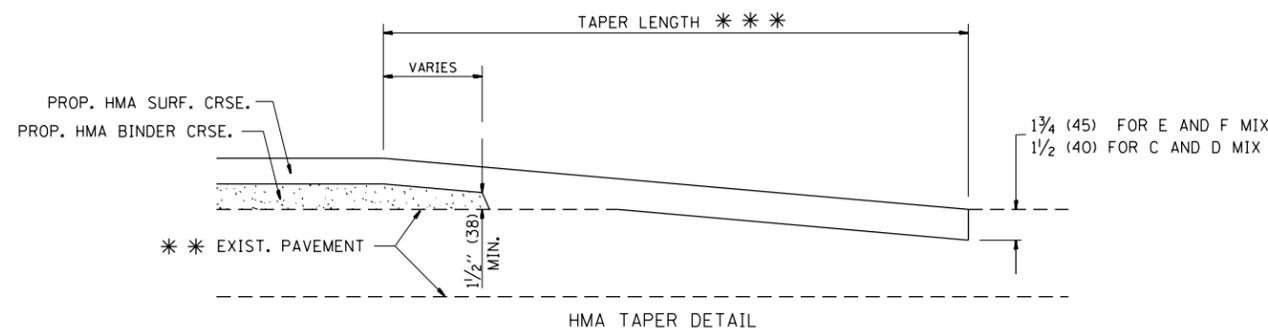


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

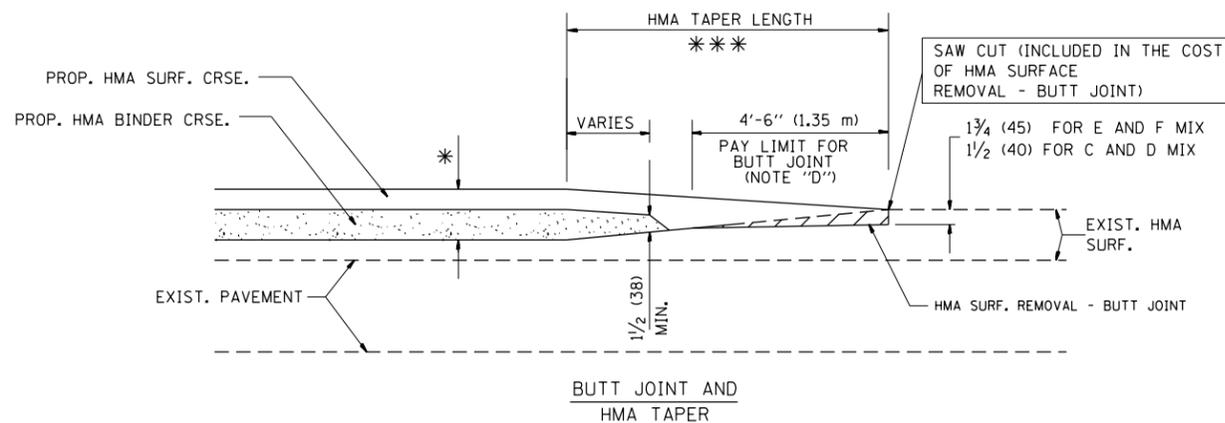
NOTES

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

BASIS OF PAYMENT:

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

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

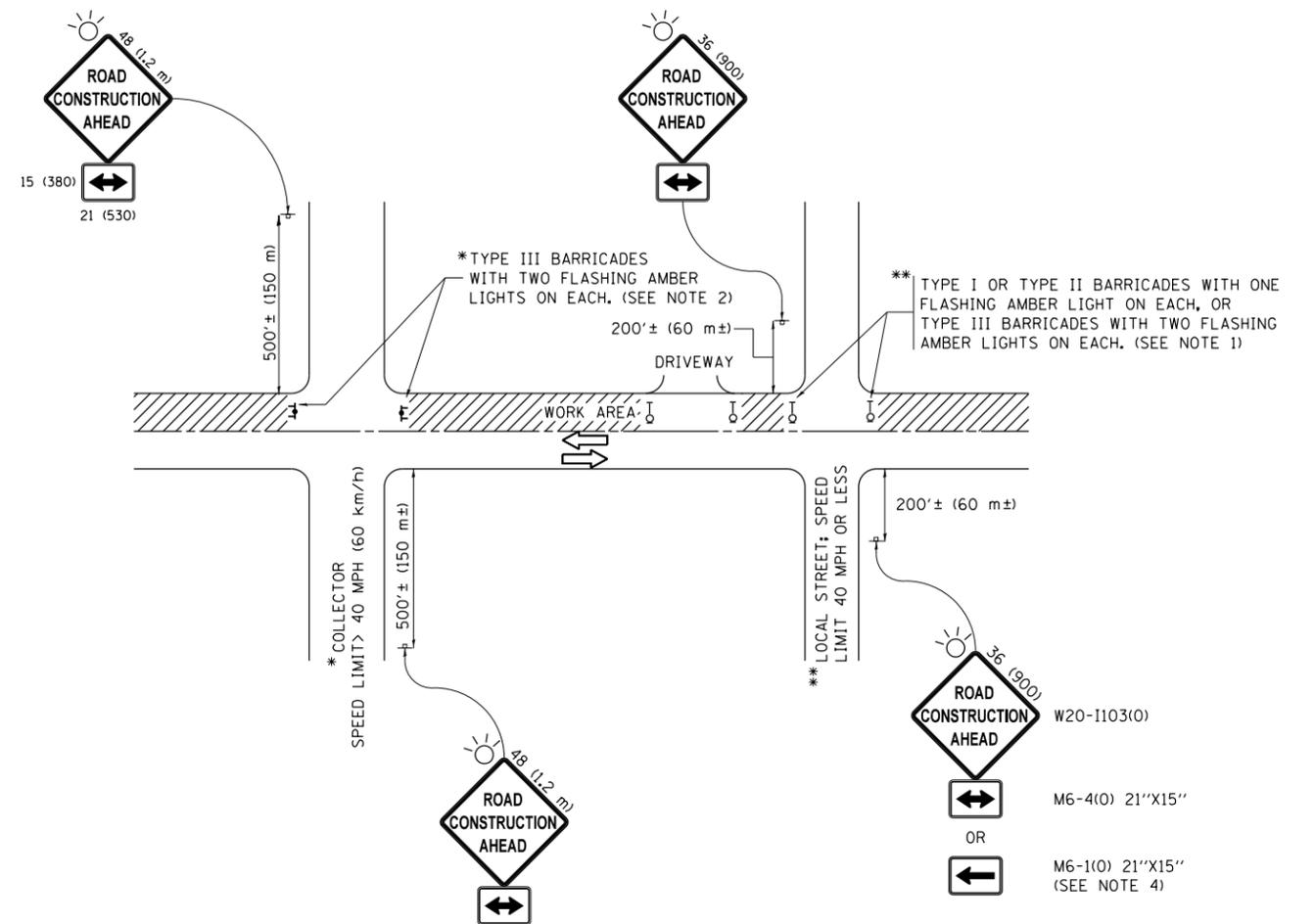
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	PLOT DATE = 10/21/2016	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	35
BD400-05 BD32			CONTRACT NO. 62C94	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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:
 - 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).
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.

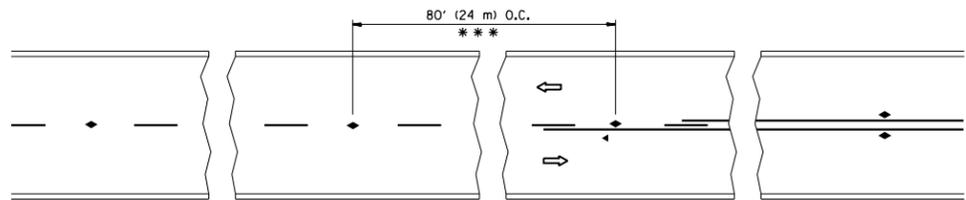
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	PLOT DATE = 10/21/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

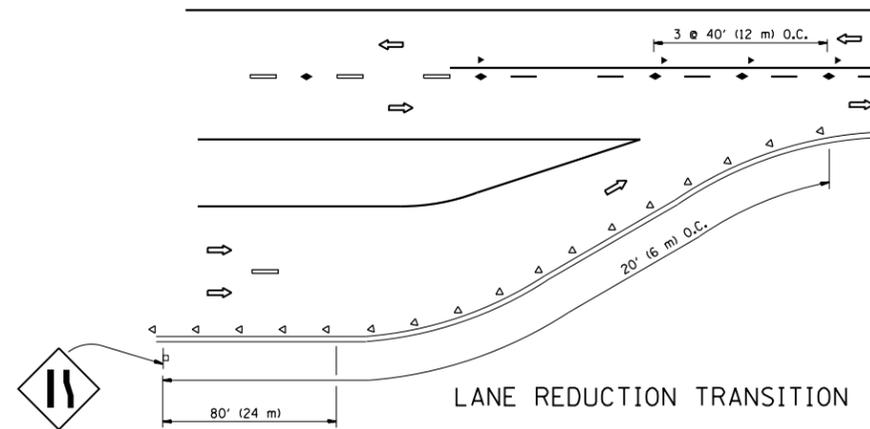
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62C94	
ILLINOIS FED. AID PROJECT				

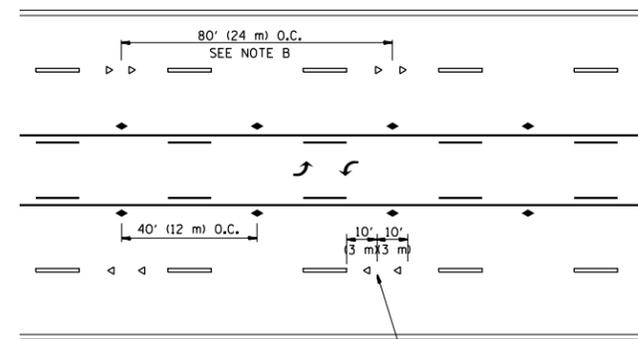


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

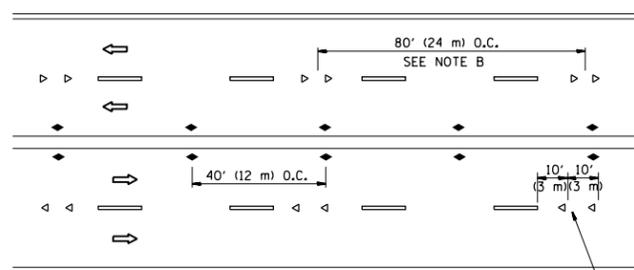
TWO-LANE/TWO-WAY



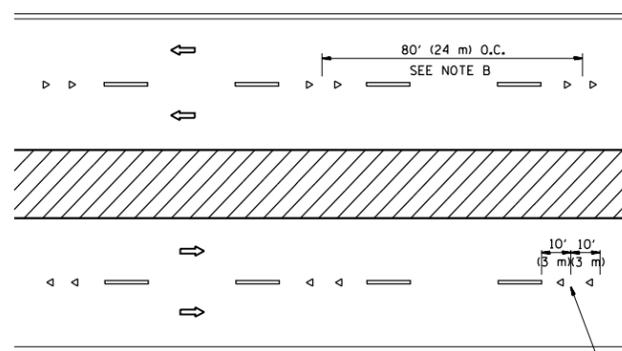
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. 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.

SYMBOLS

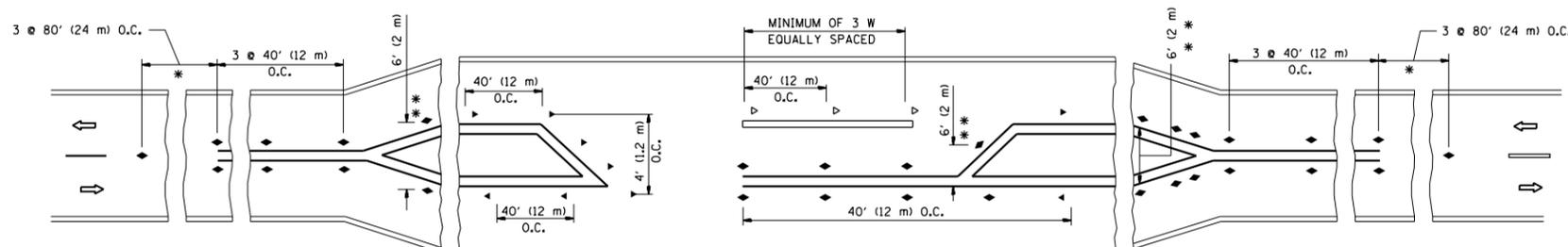
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

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.



* 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.

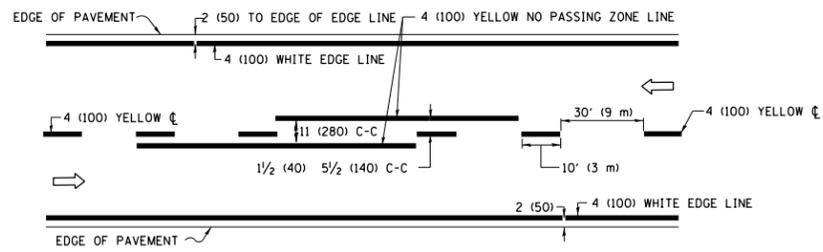
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

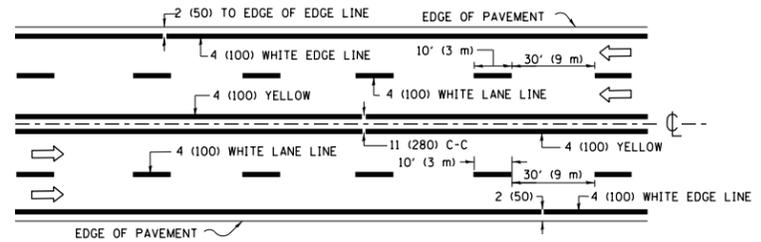
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

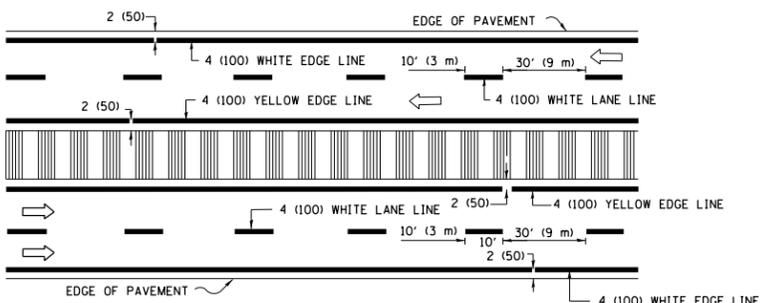
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	37
TC-11		CONTRACT NO. 62C94		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

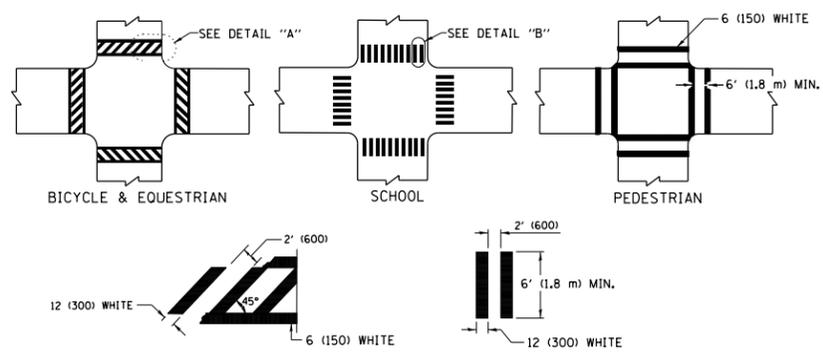


MULTI-LANE UNDIVIDED



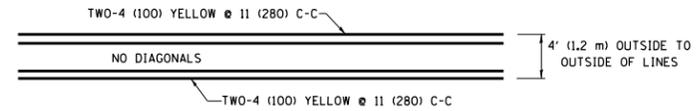
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

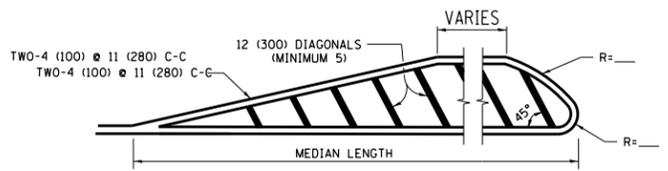


TYPICAL CROSSWALK MARKING

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

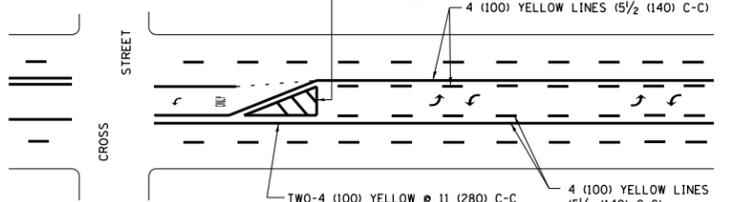


4' (1.2 m) WIDE MEDIANS ONLY

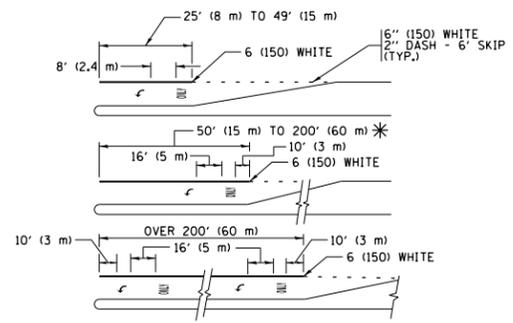


MEDIANS OVER 4' (1.2 m) WIDE

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

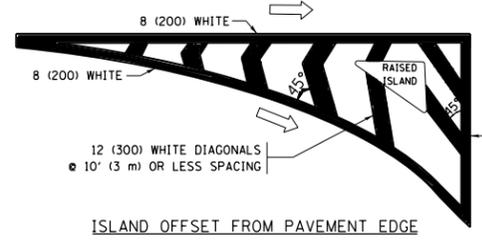


**MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING**

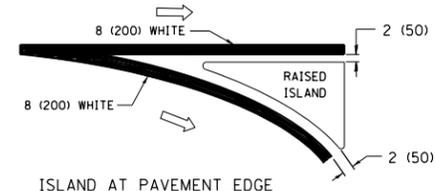


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

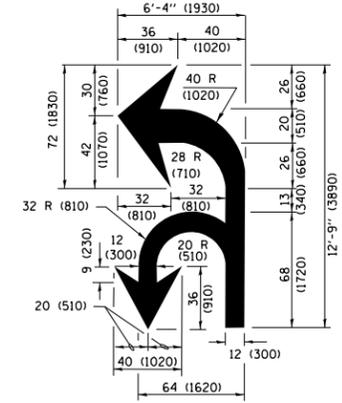
**TYPICAL LEFT (OR RIGHT) TURN LANE
TYPICAL TURN LANE MARKING**



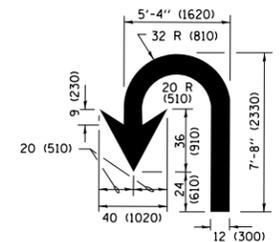
ISLAND OFFSET FROM PAVEMENT EDGE



**ISLAND AT PAVEMENT EDGE
TYPICAL ISLAND MARKING**



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (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 WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (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 CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
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.

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

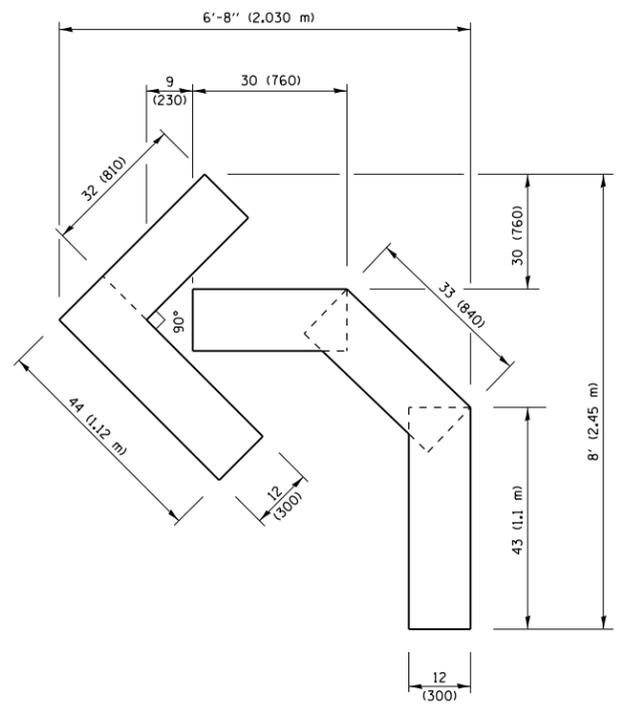
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

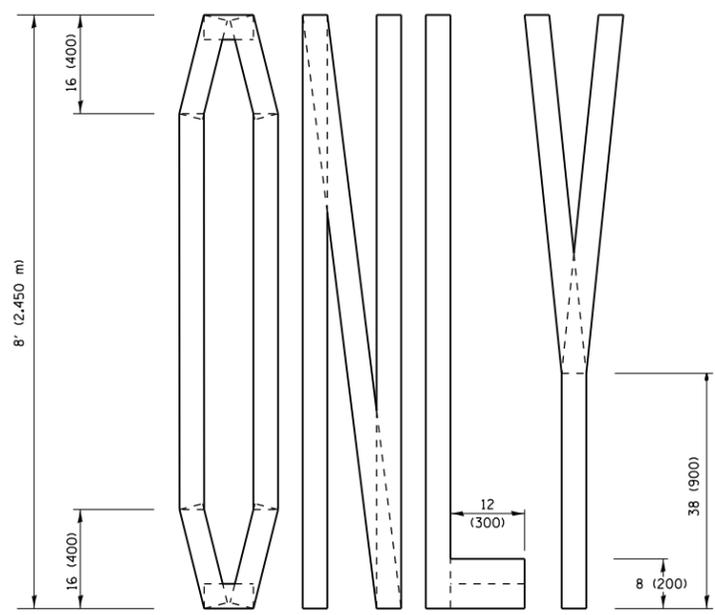
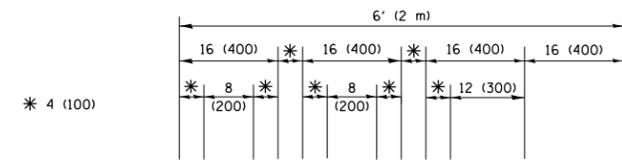
**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

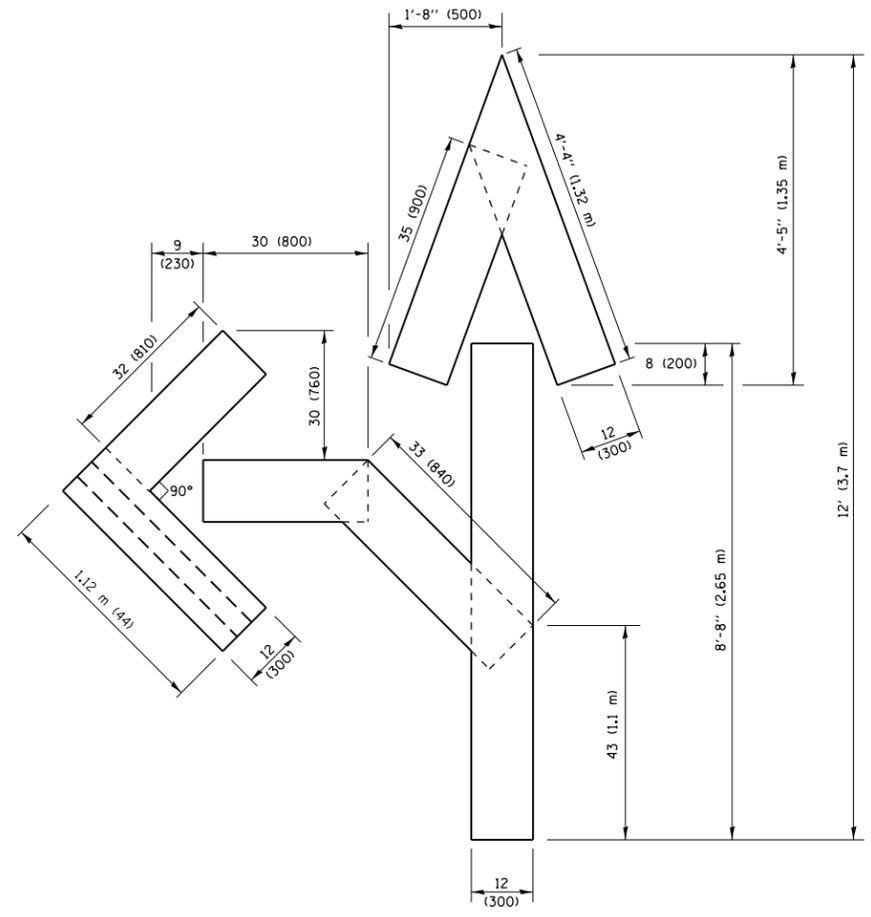
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	38
TC-13		CONTRACT NO. 62C94		
ILLINOIS FED. AID PROJECT				



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

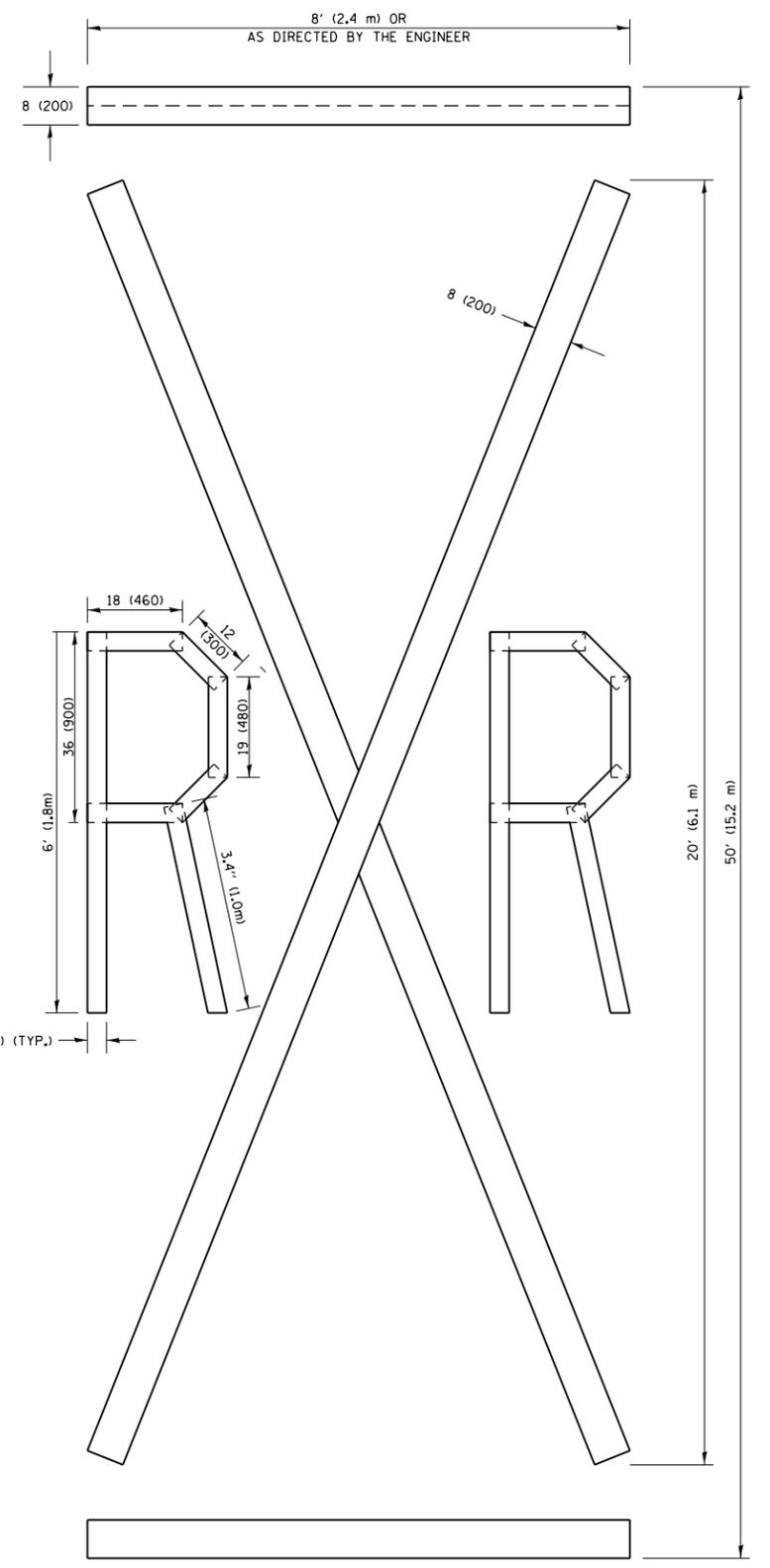


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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.



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

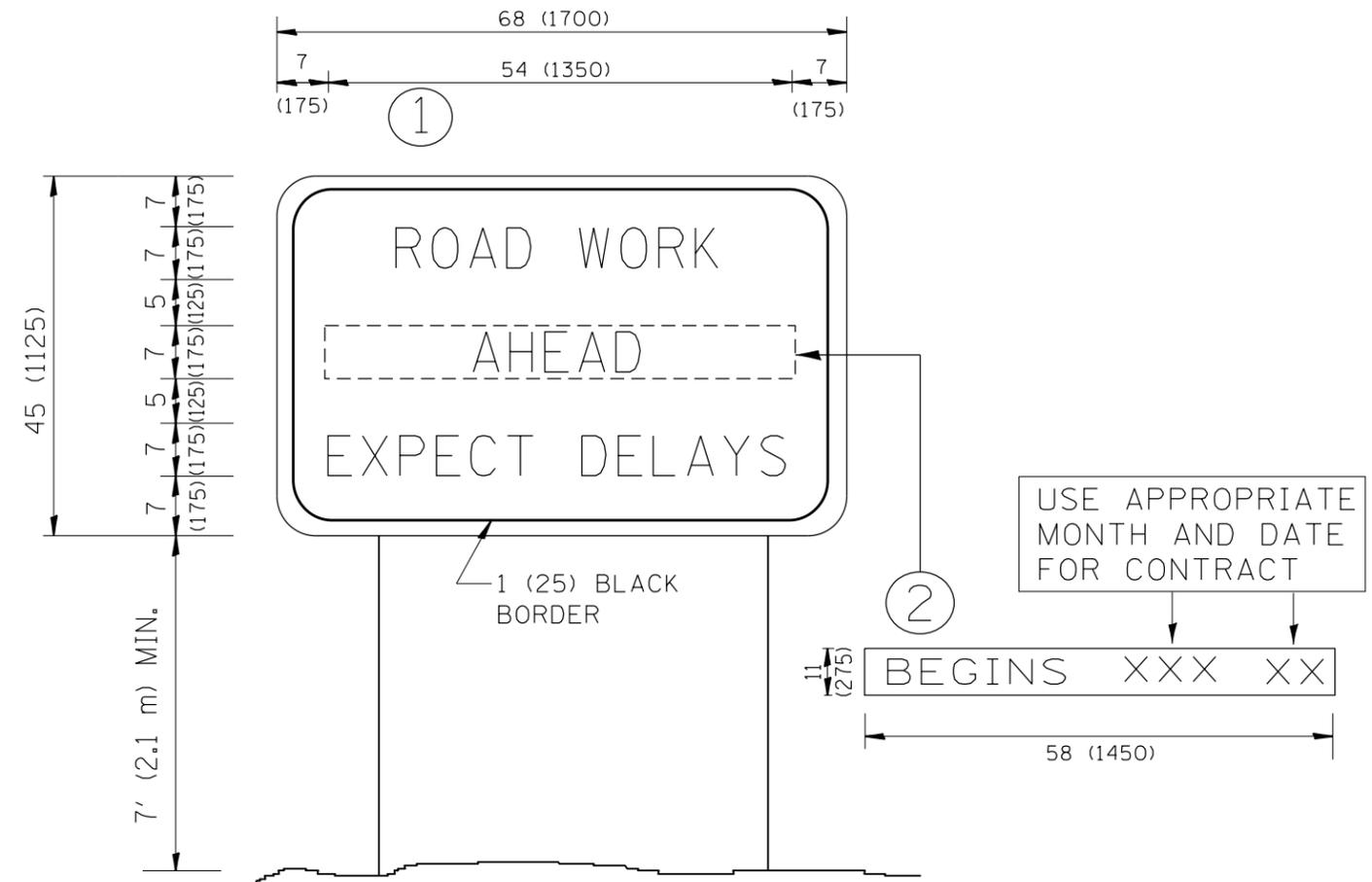
All dimensions are in inches (millimeters) unless otherwise shown.

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		REVISOR -	REVISOR -
		- E. GOMEZ 08-28-00	- E. GOMEZ 08-28-00
		REVISOR -	REVISOR -
		- E. GOMEZ 08-28-00	- E. GOMEZ 08-28-00
		REVISOR -	REVISOR -
		- A. SCHUETZE 09-15-16	- A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	40
TC-16		CONTRACT NO. 62C94		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

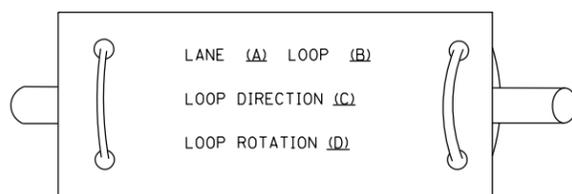
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = tar1qfm	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\014121\Drawings\Design\Diststd.dgn			REVISED - R. MIRS 12-11-97			3561	2016-041RS	COOK	43	41
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99			TC-22		CONTRACT NO. 62C94		
	PLOT DATE = 10/21/2016	DATE -	REVISED - C. JUCIUS 01-31-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

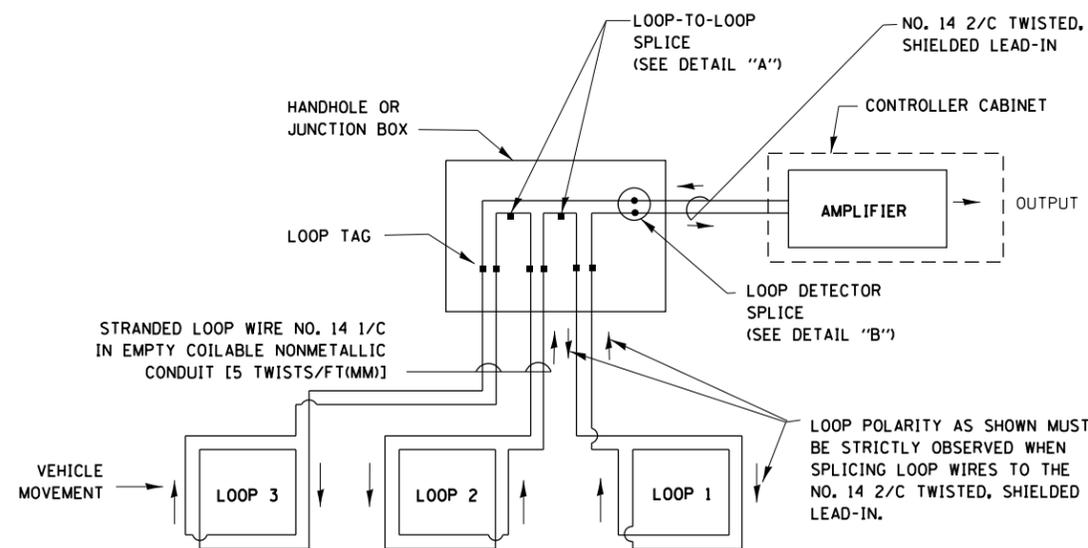
LOOP DETECTOR NOTES

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.

LOOP LEAD-IN CABLE TAG

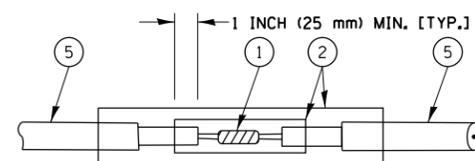


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

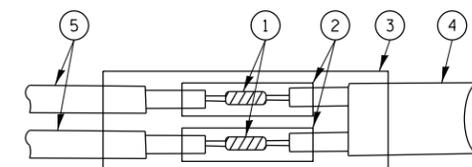


DETECTOR LOOP WIRING SCHEMATIC

- 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.

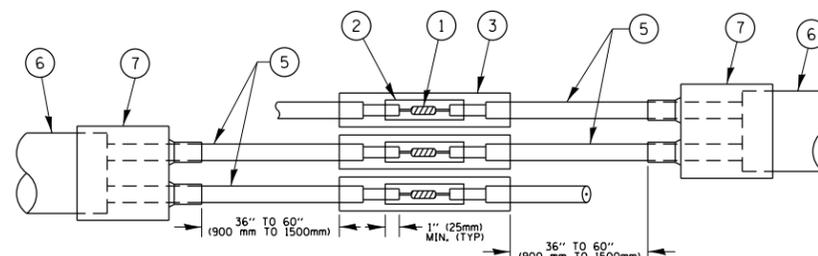


DETAIL "A"
LOOP-TO-LOOP SPLICE

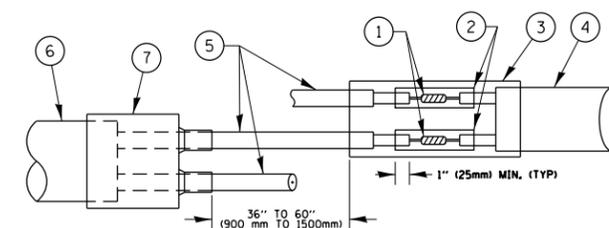


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -
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Default	PLOT DATE = 10/21/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

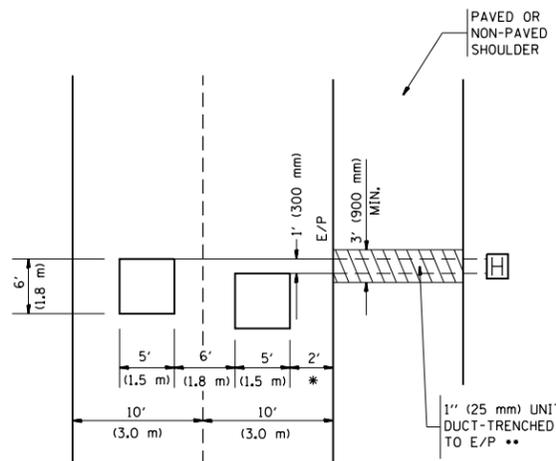
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3561	2016-041RS	COOK	43	42
TS-05		CONTRACT NO. 62C94		
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



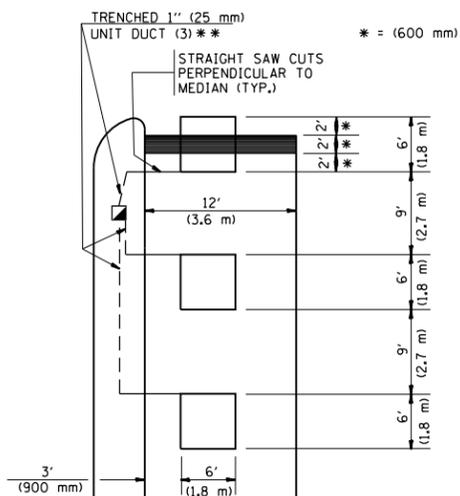
* = (600 mm)

** 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 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 FITS IN MEDIAN.

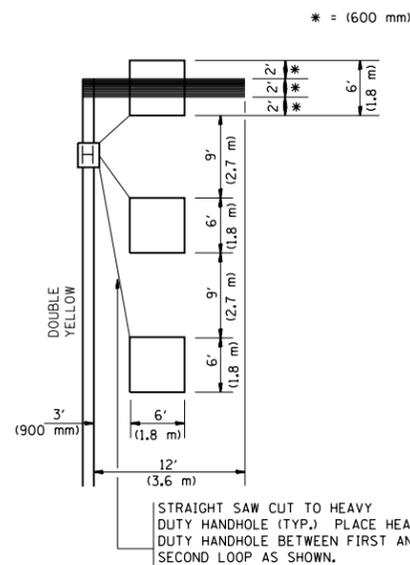


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

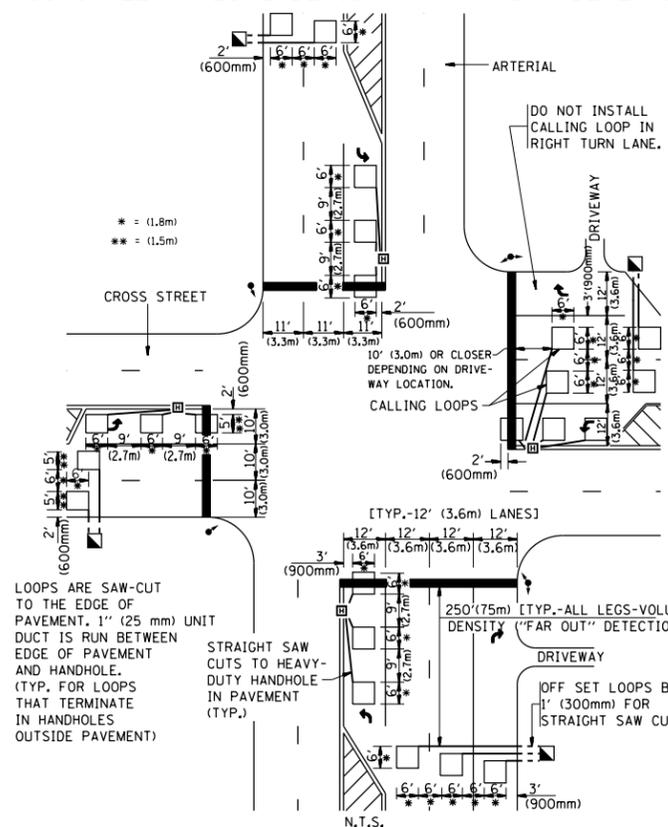
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



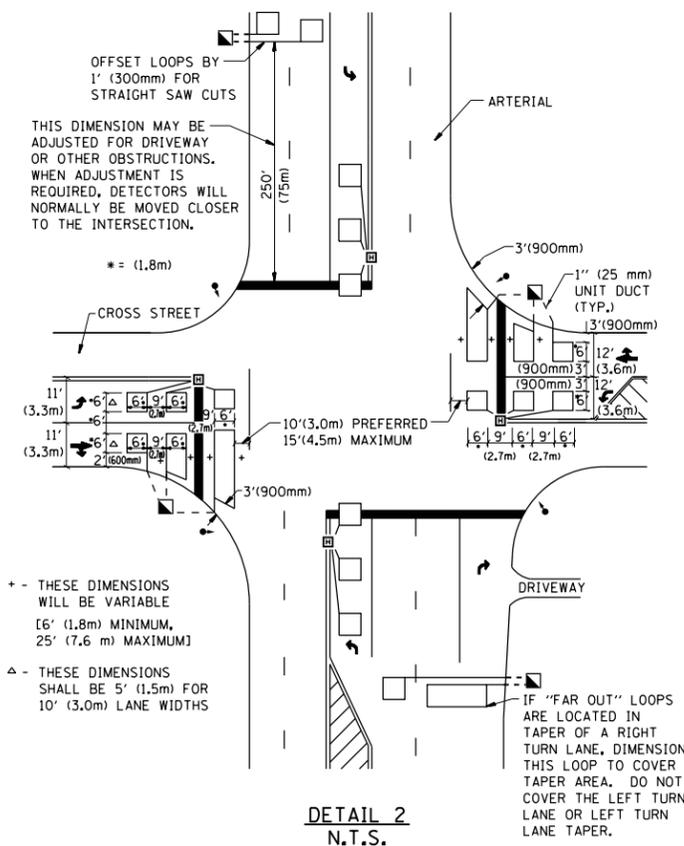
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

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 SEPARATELY. 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.

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.

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBID\INTEG\11inois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\014121\Drawings\Design\Diststd.dgn		CHECKED - R.K.F.	REVISED -		3561	2016-041RS	COOK	43	43			
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -		TS-07			CONTRACT NO. 62C94				
PLOT DATE = 10/21/2016			REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				