09-18-2020 LETTING ITEM 047

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	1
	ILLINOIS	CONTRACT NO. 60Y23		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 305: WILLOW ROAD) AT PFINGSTEN ROAD
SECTION: 1719–N(14)
PROJECT: CMAQ–GZ7Z(082)
RIGHT TURN LANE, TRAFFIC SIGNAL MODERNIZATION, AND ADA IMPROVEMENT
COOK COUNTY

D–91–338–14

LOCATION OF SECTION INDICATED THUS:–

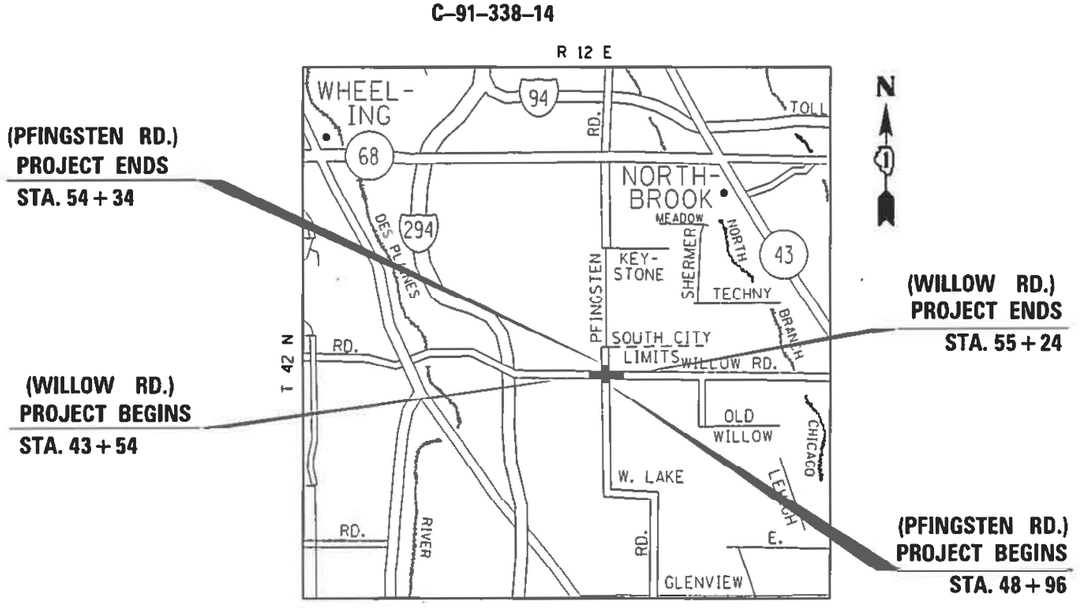
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGES OF GLENVIEW AND NORTHBROOK

TRAFFIC DATA:
WILLOW ROAD 2018 ADT = 36,600
POSTED SPEED LIMIT = 40-45 MPH

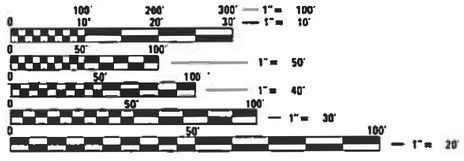
PFINGSTEN ROAD 2018 ADT = 12,200
POSTED SPEED LIMIT = 35 MPH

C–91–338–14



NORTHFIELD TOWNSHIP

GROSS AND NET LENGTH = 1,708 FT. = 0.32 MILES



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 1 20 20
REGIONAL ENGINEER

August 14, 2020
ENGINEER OF DESIGN AND ENVIRONMENT

August 14, 2020
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT MANAGER J. ALAIN MIDY (847) 221–3056

CONTRACT NO. 60Y23

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV-SEP

INDEX OF SHEETS

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602401-06	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-05	FRAME AND LIDS TYPE 1
604091-03	FRAME AND GRATE TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS > = 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS = < 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
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
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
878001-10	CONCRETE FOUNDATION DETAILS

GENERAL NOTES

1. 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 HOURS NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF GLENVIEW AND NORTHBROOK.
3. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
4. THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT Kalpana.Kannan-Hosadurga@illinois.gov A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
6. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE 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.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
9. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
10. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
11. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 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 ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
12. 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.
13. THE ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
14. 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.
15. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
16. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
17. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
18. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED IN THE PLANS)] WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
19. CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK FOR LAYOUT.
20. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
21. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
22. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.
23. THE PROPOSED EXCAVATION, ANY NECESSARY SOIL TESTING, AS WELL AS THE PROPOSED INSTALLATION OF THE AGGREGATE AND/OR BASE COURSE FOR THE PAVEMENT WIDENING SHALL BE IMPLEMENTED IN A TIMELY MANNER, BASED ON SSRBC ARTICLE 202.06 SUCH THAT THE RESULTING DROP-OFF DEPTH WILL BE LESS THAN ONE FOOT WITHIN 48 HOURS.
24. ANY DAMAGE TO EXISTING LATERAL STORM SEWER LINES ON THE EAST LEG OF THE INTERSECTION DUE TO PROPOSED MEDIAN WORK SHALL BE REPAIRED AND / OR REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.
25. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMJT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS COFFERDMAN (TYPE 1) (IN-STREAM /WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH .

REV-SEP

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW ROAD AT PFINGSTEN ROAD
GENERAL NOTES AND INDEX SHEET

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	2
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	320	320					
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	193	193					
	20200100	EARTH EXCAVATION	CU YD	1060	1060					
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE	CU YD	402	402					
		MATERIAL								
	20800150	TRENCH BACKFILL	CU YD	121	121					
	21001000	GEOTECHNICAL FABRIC FOR GROUND	SO YD	1116	1116					
		STABILIZATION								
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	882	882					
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3.3	3.3					
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3.3	3.3					
*	25100115	MULCH, METHOD 2	ACRE	0.25	0.25					
*	25200110	SODDING, SALT TOLERANT	SO YD	882	882					
	25200200	SUPPLEMENTAL WATERING	UNIT	17.9	17.9					
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	21	21					
	28000400	PERIMETER EROSION BARRIER	FOOT	85	85					

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
	28000510	INLET FILTERS	EACH	22	22					
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	146	146					
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	1746	1746					
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SO YD	798			798			
	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	76	76					
	35501317	HOT-MIX ASPHALT BASE COURSE, 8 1/4"	SO YD	1290	1290					
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1794			1794			
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8579	8579					
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	35	35					
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	136	136					
	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	62	62					
	40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	525	525					
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	99	9		90			

* *SPECIALTY ITEMS*

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW ROAD AT PFINGSTEN ROAD
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	3
		CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE	TON	1246	1246					
	COURSE, IL-9.5, MIX "E", N70								
42001300	PROTECTIVE COAT	SQ YD	545	545					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2130	2130					
42400800	DETECTABLE WARNINGS	SQ FT	230	230					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	11407	11407					
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	76	76					
44000400	GUTTER REMOVAL	FOOT	150	150					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1010	1010					
44000600	SIDEWALK REMOVAL	SQ FT	2130	2130					
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	368	368					
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	149	149					
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	260	260					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	149	149					
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	635	635					

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
55100500	STORM SEWER REMOVAL 12"	FOOT	500	500					
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1005	1005					
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE	EACH	3	3					
	24 FRAME AND GRATE								
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND	EACH	7	7					
	GRATE								
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1	EACH	3	3					
	FRAME, CLOSED LID								
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	3	3					
60500050	REMOVING CATCH BASINS	EACH	16	16					
60500060	REMOVING INLETS	EACH	1	1					
60605000	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	1010	1010					
	TYPE B-6.24								
60619200	CONCRETE MEDIAN, TYPE SB-6.06	HOUR	2320	2330					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	340	340					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2					
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION	LSUM	1	1					
	PLAN								

* *SPECIALTY ITEMS*

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW ROAD AT PFINGSTEN ROAD
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	4
		CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION	LSUM	1	1					
		REPORT								
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	15	15					
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9					
	67100100	MOBILIZATION	L SUM	1	1					
	70102625	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1					
		STANDARD 701606								
	70102630	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1					
		STANDARD 701601								
	70102632	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1					
		STANDARD 701602								
	70102635	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1					
		STANDARD 701701								
	70102640	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1					
		STANDARD 701801								
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	16489	16489					
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5497	5497					

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
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	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND	SQ FT	292	292					
		SYMBOLS								
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5828	5828					
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2150	2150					
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1063	1063					
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	185	185					
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	4123	4123					
	72000100	SIGN PANEL - TYPE 1	SQ FT	45	15	30				
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	14	14					
	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	2	2					
*	78000100	THERMOPLASTIC PAVEMENT MARKING -	SQ FT	292	292					
		LETTERS AND SYMBOLS								
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5828	5828					
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2150	2150					
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1063	1063					
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	185	185					
		* SPECIALTY ITEMS								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW ROAD AT PFINGSTEN ROAD
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	5
		CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	137	137					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	120	120					
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	1091		1091				
		2" DIA.								
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	211		211				
		3" DIA.								
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	521		521				
		4" DIA.								
*	81400100	HANDHOLE	EACH	4		4				
*	81400200	HEAVY-DUTY HANDHOLE	EACH	2		2				
*	81400300	DOUBLE HANDHOLE	EACH	2		2				
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	2		2				
		INSTALLATION								
*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1				
*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO.	FOOT	5925		5925				
		14 1C								
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	1485		1485				
		14 2C								

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	1890				1890		
		14 3C								
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	1810		1810				
		14 5C								
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	2595		2595				
		14 7C								
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.	FOOT	2775		2775				
		14 1 PAIR								
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO.	FOOT	110		110				
		6 2 C								
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	828		828				
		GROUNDING CONDUCTOR, NO. 6 1C								
*	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	2		2				
		10 FT.								
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	4		4				
		16 FT.								
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	32		32				
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4				

* SPECIALTY ITEMS

REV-SEP

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	PLOT DATE = 5/6/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW ROAD AT PFINGSTEN ROAD
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	6
		CONTRACT NO. 60Y23		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

	CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH	FOOT	52		52				
		DIAMETER								
*	87900200	DRILL EXISTING HANDHOLE	EACH	2		2				
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	EACH	6		6				
		MAST-ARM MOUNTED								
*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	EACH	2		2				
		BRACKET MOUNTED								
*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	6		6				
		BRACKET MOUNTED								
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	6		6				
		MAST-ARM MOUNTED								
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE,	EACH	8		8				
		BRACKET MOUNTED WITH COUNTDOWN TIMER								
*	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED,	EACH	12		12				
		FORMED PLASTIC								
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8				
*	88600100	DETECTOR LOOP, TYPE I	FOOT	432		432				
*	88700200	LIGHT DETECTOR	EACH	2					2	

	CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1					1	
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8				
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1				
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9000		9000				
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL	EACH	1		1				
		EQUIPMENT								
*	89502380	REMOVE EXISTING HANDHOLE	EACH	14		14				
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	13		13				
*	A2001614	TREE, ACER SACCHARINUM MORTON	EACH	6	6					
		(CRESCENDO SUGAR MAPLE), 2-1/2"								
		CALIPER, BALLED AND BURLAPPED								
*	B2000770	TREE, AMELANCHIER X GRANDIFLORA AUTUMN	EACH	6	6					
		BRILLIANCE (AUTUMN BRILLIANCE SERVICE								
		BERRY), 2" CALIPER, TREE FORM, BALLED								
		AND BURLAPPED								
*	B2006125	TREE, SYRINGA PEKINENSIS ZHING ZHING	EACH	7	7					
		(BEIJING GOLD PEKING LILAC) 2" CALIPER,								
		TREE FORM, BALLED AND BURLAPPED								

* *SPECIALTY ITEMS*

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW ROAD AT PFINGSTEN ROAD
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	7
		CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE	FOOT	360					360	
		SENSOR CABLE, NO. 20 3/C								
*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	3700		3700				
*	X0327698	LED INTERNALLY ILLUMINATED STREET NAME	EACH	4					4	
		SIGN								
*	X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER	EACH	1		1				
		P CABINET (SPECIAL)								
*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED,	EACH	1		1				
		METERED								
*	X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE	EACH	2		2				
		APPROACH, STOP BAR								
*	X1400324	STEEL MAST ARM ASSEMBLY & POLE	EACH	2				2		
		(SPECIAL) 48 FT.								
*	X2502014	SEEDING, CLASS 4A (MODIFIED)	ACRE	0.25	0.25					
	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	29	29					
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1					
	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	225						225
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	1	1					

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	6110	6110					
*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1				
*	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO.	FOOT	5975		5975				
		62.5/125, MM12F SM24F								
*	X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1		1				
*	X8771220	STEEL MAST ARM ASSEMBLY AND POLE, 36	EACH	1				1		
		FT. (SPECIAL)								
*	X8771250	STEEL MAST ARM ASSEMBLY AND POLE, 42	EACH	1				1		
		FT. (SPECIAL)								
	Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	165	165					
		REMOVAL AND REPLACEMENT								
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	15						15
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8					
*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	1		1				
		2								
	Z0056668	STORM SEWERS, TYPE 2, WATER MAIN	FOOT	111	111					
		QUALITY PIPE, 12"								
	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1				
		* SPECIALTY ITEMS								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW ROAD AT PFINGSTEN ROAD
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	8
		CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%
*	X2500006	PAINT NEW TRAFFIC SIGNAL POST (SPECIAL)	EACH	7					7	
*	X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME	FOOT	895					895	
		SIGN, NO. 14 3C, TYPE SOOW								
Ø	Z0076600	TRAINEES	HOUR	500	500					
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500					

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		ROADWAY 0004 FED 80% STATE 20%	TRAFFIC 0021 FED 80% STATE 20%	BIKE PATH 0028 FED 80% VILLAGE 20% (GLENVIEW)	TRAFFIC 0021 FED 80% STATE 10% VILLAGE 10% (GLENVIEW)	TRAFFIC 0021 VILLAGE 100% (GLENVIEW)	ROADWAY 0004 STATE 100%

Ø 0042

* SPECIALTY ITEM

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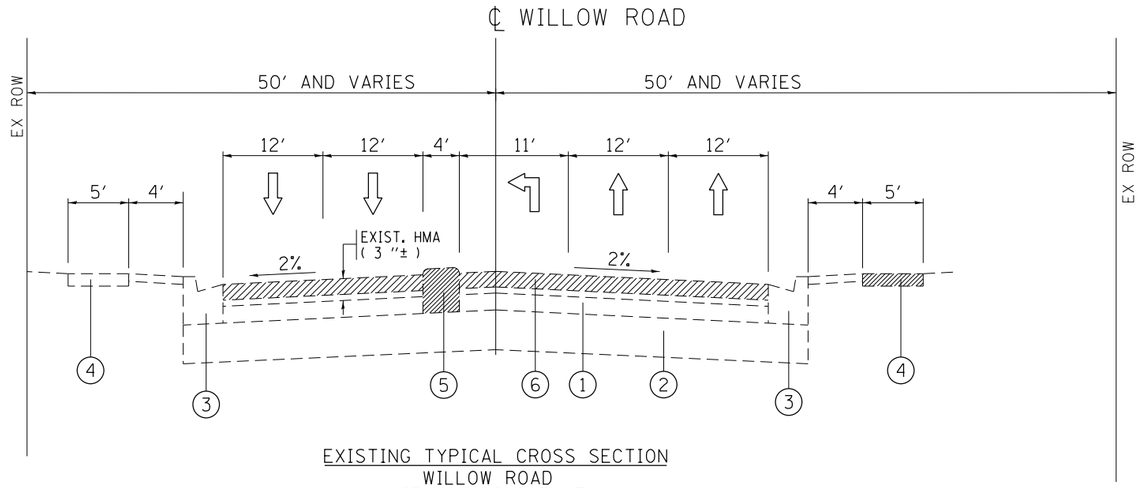
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW ROAD AT PFINGSTEN ROAD
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	9
		CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

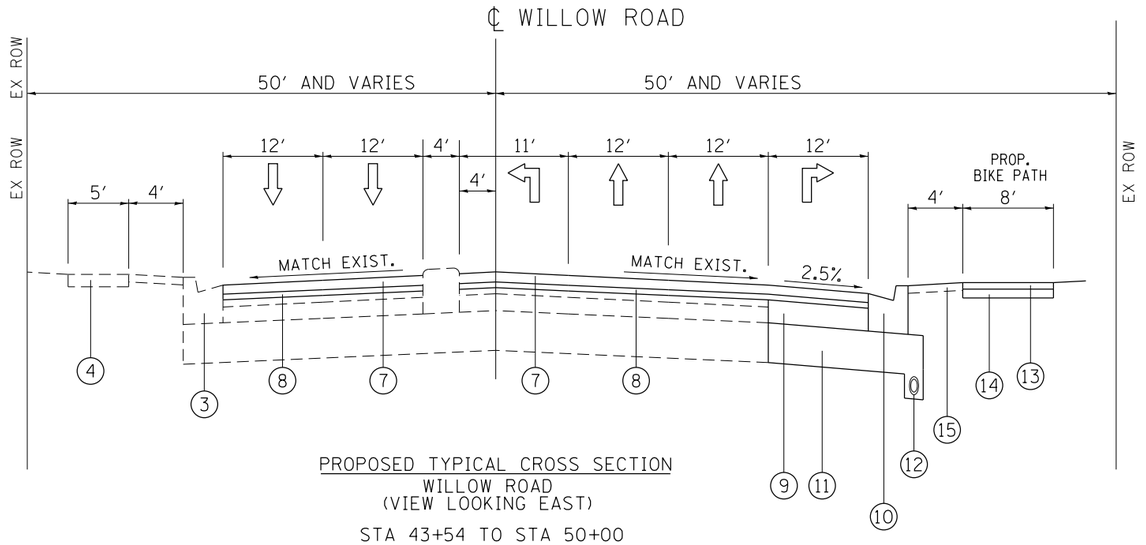


EXISTING TYPICAL CROSS SECTION
WILLOW ROAD
(VIEW LOOKING EAST)

STA 43+54 TO STA 50+00

LEGEND:

1. EXISTING P.C.C. PAVEMENT, ± 10″
2. EXISTING AGGREGATE SUB-GRADE, 6″-12″
3. EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.24
4. EXISTING P.C.C. SIDEWALK (TO BE REMOVED WHERE ROADWAY WIDENING IS PROPOSED)
5. EXISTING P.C.C. MEDIAN SECTION (TO BE REMOVED) (SEE ROADWAY PLAN FOR EXACT LOCATION)
6. PROPOSED HMA REMOVAL, 2 ½″
7. PROPOSED POLY. HMA SURFACE COURSE, IL-9.5, MIX ″E″, N70, 1 ¾″
8. PROPOSED POLY. HMA BINDER COURSE, IL-4.75, N50, ¾″
9. PROPOSED HMA BASE COURSE, 8 ¼″
10. PROPOSED COMB CONC CURB AND GUTTER, TYPE B-6.24
11. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12″
12. PROP. PIPE UNDERDRAIN, 4″
    SEE NOTE IN THE CHARTS FOR DRAINAGE STRUCTURES AND SEWERS.
13. PROPOSED HMA SURFACE COURSE, IL-9.5, MIX ″D″, N50, 2″
14. PROP. AGGREGATE BASE COURSE, TYPE B, 6″
15. PROPOSED TOPSOIL FURNISH AND PLACE, 4″ AND PROPOSED SODDING, SALT TOLERANT



PROPOSED TYPICAL CROSS SECTION
WILLOW ROAD
(VIEW LOOKING EAST)

STA 43+54 TO STA 50+00

NOTES

MIXTURE REQUIREMENTS AND NOTES CAN BE FOUND IN THE SCHEDULE OF QUANTITIES.

PAVEMENT PATCHING SHALL BE DONE PRIOR TO MILLING THE ROADWAY SURFACE, PER BD-22 DETAIL.

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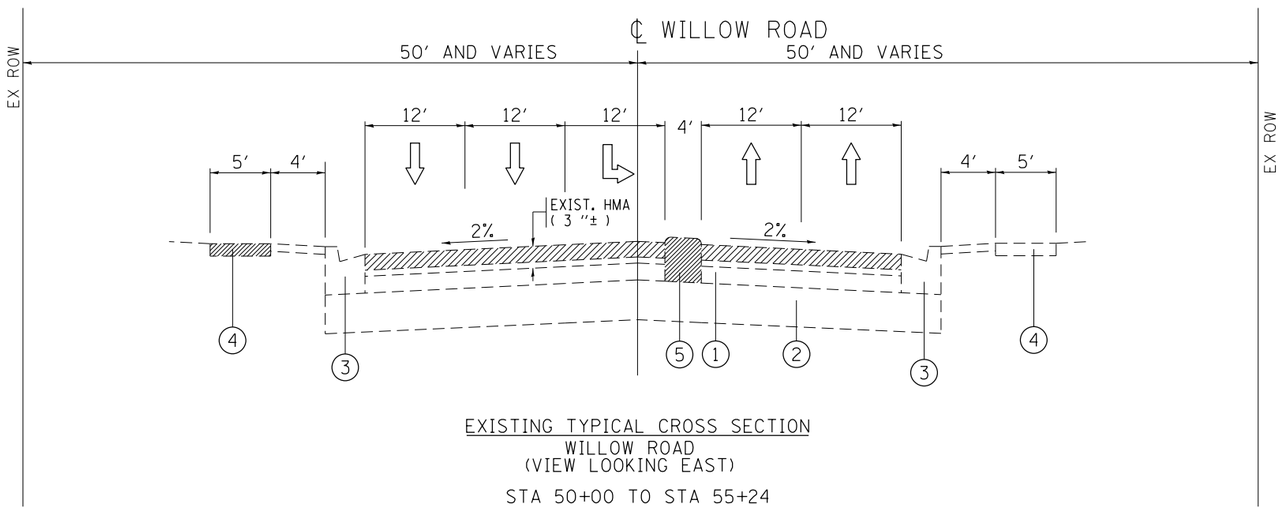
PLOT DATE = 5/8/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	10
		CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			

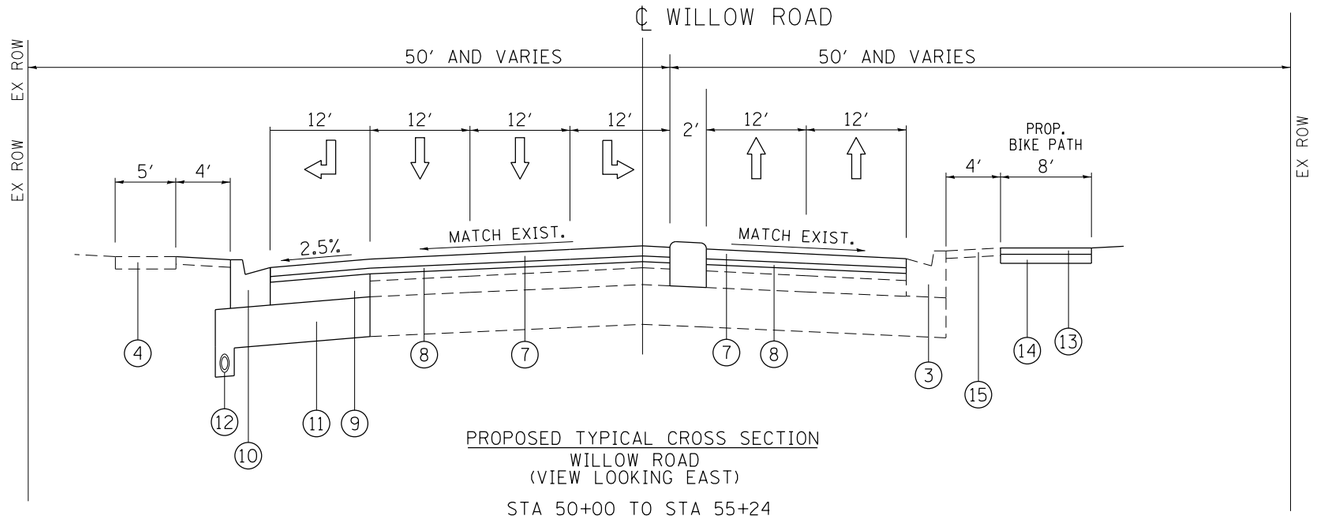


EXISTING TYPICAL CROSS SECTION
WILLOW ROAD
(VIEW LOOKING EAST)

STA 50+00 TO STA 55+24

LEGEND:

1. EXISTING P.C.C. PAVEMENT, ± 10″
2. EXISTING AGGREGATE SUB-GRADE, 6″-12″
3. EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.24
4. EXISTING P.C.C. SIDEWALK (TO BE REMOVED WHERE ROADWAY WIDENING IS PROPOSED)
5. EXISTING P.C.C. MEDIAN SECTION (TO BE REMOVED) (SEE ROADWAY PLAN FOR EXACT LOCATION)
6. PROPOSED HMA REMOVAL, 2 ½″
7. PROPOSED POLY. HMA SURFACE COURSE, IL-9.5, MIX ″E″, N70, 1 ¾″
8. PROPOSED POLY. HMA BINDER COURSE, IL-4.75, N50, ¾″
9. PROPOSED HMA BASE COURSE, 8 ¼″
10. PROPOSED COMB CONC CURB AND GUTTER, TYPE B-6.24
11. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12″
12. PROP. PIPE UNDERDRAIN, 4″
    SEE NOTE IN THE CHARTS FOR DRAINAGE STRUCTURES AND SEWERS.
13. PROPOSED HMA SURFACE COURSE, IL-9.5, MIX ″D″, N50, 2″
14. PROP. AGGREGATE BASE COURSE, TYPE B, 6″
15. PROPOSED TOPSOIL FURNISH AND PLACE, 4″ AND PROPOSED SODDING, SALT TOLERANT



PROPOSED TYPICAL CROSS SECTION
WILLOW ROAD
(VIEW LOOKING EAST)

STA 50+00 TO STA 55+24

NOTES

MIXTURE REQUIREMENTS AND NOTES CAN BE FOUND IN THE SCHEDULE OF QUANTITIES.

PAVEMENT PATCHING SHALL BE DONE PRIOR TO MILLING THE ROADWAY SURFACE, PER BD-22 DETAIL.

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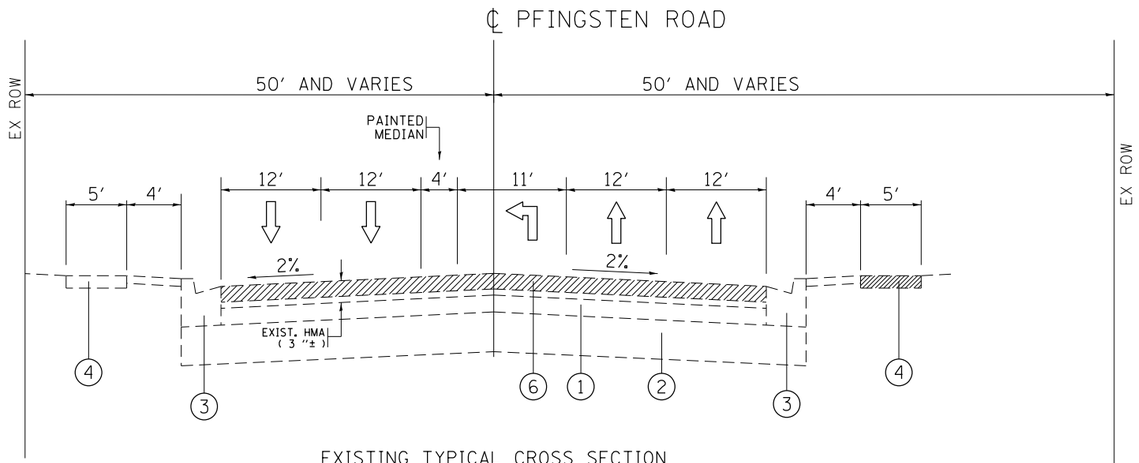
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	11
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

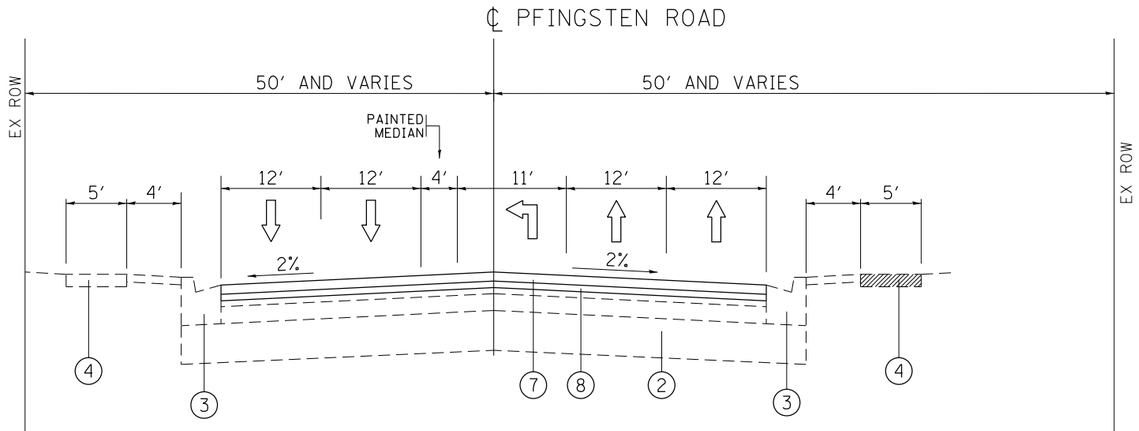


EXISTING TYPICAL CROSS SECTION
PFINGSTEN ROAD
(TYPICAL VIEW LOOKING NORTH OR SOUTH)

STA 48+96 TO STA 54+34

LEGEND:

1. EXISTING P.C.C. PAVEMENT, ± 10"
2. EXISTING AGGREGATE SUB-GRADE, 6"-12"
3. EXISTING COMB CONC CURB AND GUTTER, TYPE B-6.24
4. EXISTING P.C.C. SIDEWALK (TO BE REMOVED WHERE ROADWAY WIDENING IS PROPOSED)
5. EXISTING P.C.C. MEDIAN SECTION (TO BE REMOVED) (SEE ROADWAY PLAN FOR EXACT LOCATION)
6. PROPOSED HMA REMOVAL, 2 ½"
7. PROPOSED POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 ¾"
8. PROPOSED POLY. HMA BINDER COURSE, IL-4.75, N50, ¾"
9. PROPOSED HMA BASE COURSE, 8 ¼"
10. PROPOSED COMB CONC CURB AND GUTTER, TYPE B-6.24
11. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
12. PROP. PIPE UNDERDRAIN, 4"
    SEE NOTE IN THE CHARTS FOR DRAINAGE STRUCTURES AND SEWERS.
13. PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
14. PROP. AGGREGATE BASE COURSE, TYPE B, 6"
15. PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND PROPOSED SODDING, SALT TOLERANT



PROPOSED TYPICAL CROSS SECTION
PFINGSTEN ROAD
(TYPICAL VIEW LOOKING NORTH OR SOUTH)

STA 48+96 TO STA 54+34

NOTES

MIXTURE REQUIREMENTS AND NOTES CAN BE FOUND IN THE SCHEDULE OF QUANTITIES.

PAVEMENT PATCHING SHALL BE DONE PRIOR TO MILLING THE ROADWAY SURFACE, PER BD-22 DETAIL.

USER NAME = paraynoal	DESIGNED -	REVISED -	
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	12
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

HOT–MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ N_{DES}	QMP
ROADWAY RESURFACING:		
POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 ¾"	4% AT 70 GYR.	QC/QA
POLY. HMA BINDER COURSE, IL-4.75, N50, ¾"	3.5% AT 50 GYR.	QC/QA
ROADWAY WIDENING:		
POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 ¾"	4% AT 70 GYR.	QC/QA
POLY. HMA BINDER COURSE, IL-4.75, N50, ¾"	3.5% AT 50 GYR.	QC/QA
HMA BASE COURSE (HMA BINDER, IL-19 mm), 8 ¼"	4% AT 90 GYR.	QC/QA
MULTI-USE PATH		
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 2"	4% AT 50 GYR.	QC/QA
COMMERCIAL DRIVEWAY:		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% AT 50 GYR.	QC/QA
HMA BASE COURSE (HMA BINDER, IL-19 mm), 8"	4% AT 50 GYR.	QC/QA
HOT-MIX ASPHALT PATCHING:		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.	QC/QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES 3" (HMA BINDER, IL-19.0)	4% AT 70 GYR.	QC/QA

QMP Designation: Quality Control/Quality Assurance (QC/QA)

NOTES:

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

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

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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

USER NAME = paraynoal	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/8/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	13
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

1	2	3	4	5	6	8	10
LOCATION	EARTH EXCAVATION (CUBIC YARD)	EARTH EXCAVATION FOR FILL, ADJUSTED FOR 15% SHRINKAGE (CUBIC YARD)	EMBANKMENT (FILL) (CUBIC YARD)	EARTHWORK BALANCE: WASTE (+) OR SHORTAGE (-) (CUBIC YARD)	INITIAL STRIPPING OF EXISTING TOPSOIL: TOPSOIL EXCAVATION AND PLACEMENT, (8") (CUBIC YARD)	REQUIRED SPACE FOR FINAL PROP. TOPSOIL PLACEMENT, 4" (CUBIC YARD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CUBIC YARD)
	PAY CODE. 20200100					PAY CODE. 21101615	PAY CODE. 20201200
WILLOW ROAD	1000	850	0	850	703	98	703

DESIGNER NOTE:
THE CHART IS BASED ON THE PRELIMINARY DESIGN DETERMINATION THAT DUE TO TIGHT RIGHT-OF-WAY CONSTRAINTS, NO STORAGE ON-SITE LOCATION IS AVAILABLE FOR THE INITIAL STRIPPED EXISTING TOPSOIL. THEREFORE NONE OF IT IS AVAILABLE FOR REUSE AS FINAL PROPOSED TOPSOIL, AND IS ALL HAULED AWAY AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

CORRESPONDING PAY ITEM AND QUANTITY = TOPSOIL FURNISH AND PLACE, 4" = 882 SQ. YD
(PAY CODE 21101615)

COLUMNS 1, 2, 4, 6, & 8: LOCATION AND QUANTITIES FROM CROSS SECTIONS.

CUT = EARTH EXCAVATION
FILL = EMBANKMENT

COLUMN 3: QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR SHRINKAGE FACTOR OF 15%

COLUMN 5: EARTHWORK REQUIRED:

(-) = QUANTITY OF FILL OR EMBANKMENT NEEDED (FURNISHED OR BORROW EXCAVATION).
(+) = QUANTITY TO BE WASTED.

COLUMN 10: AMOUNT EQUAL TO THE VOLUME OF THE INITIAL STRIPPING OF EXISTING TOPSOIL.

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\P171109\CADData\Desk\pw-P171109-sht-schedule.dgn

USER NAME = paraynoal	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/8/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	14
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

TREE REMOVAL SCHEDULE

LOCATION SECTION: WILLOW ROAD, SOUTH OF W. LEG OF INTERSECTION

STATION AND OFFSET				6 TO 15 UNITS	OVER 15 UNITS
45+68.6	/	53.3	RT	12	
45+89.9	/	53.7	RT	12	
45+99.2	/	47.2	RT	7	
46+11.0	/	58.1	RT		20
46+15.7	/	60.0	RT		18
46+23.1	/	55.9	RT	12	
46+38.2	/	50.0	RT	12	
46+53.1	/	51.0	RT	12	
46+56.4	/	55.7	RT	12	
46+83.4	/	50.5	RT	12	
46+76.9	/	55.8	RT		16
46+81.5	/	59.6	RT		16
46+94.0	/	50.7	RT	12	
46+94.5	/	58.6	RT	12	
47+01.9	/	57.5	RT	12	
47+16.7	/	51.5	RT	6	
47+23.7	/	53.7	RT	15	
47+25.1	/	49.8	RT	6	
47+42.5	/	52.1	RT	12	
47+45.1	/	52.2	RT	15	
47+50.3	/	58.6	RT	12	
SUBTOTAL:				193	70

STATION AND OFFSET				6 TO 15 UNITS	OVER 15 UNITS
47+53.9	/	62.1	RT	12	
47+53.8	/	63.0	RT	12	
47+64.4	/	58.9	RT		16
47+71.8	/	45.5	RT	12	
47+89.2	/	56.5	RT		26
47+86.9	/	58.5	RT	15	
47+87.2	/	60.7	RT		18
48+26.2	/	49.5	RT		18
48+27.4	/	51.5	RT	7	
48+24.0	/	64.5	RT		30
48+52.8	/	46.8	RT	12	
48+57.1	/	50.1	RT	8	
48+62.2	/	50.6	RT	8	
48+63.2	/	49.7	RT	7	
49+06.7	/	55.0	RT		15
SUBTOTAL:				93	123

TREE REMOVAL SCHEDULE

LOCATION SECTION: WILLOW ROAD, NORTH OF E. LEG OF INTERSECTION

STATION AND OFFSET				6 TO 15 UNITS	OVER 15 UNITS
51+42.5	/	44.5	LT	8	
51+73.6	/	44.1	LT	10	
52+04.2	/	44.2	LT	10	
52+40.8	/	43.5	LT	10	
52+69.9	/	42.4	LT	10	
52+98.6	/	46.3	LT	10	
SUBTOTAL:				58	0

	6 TO 15 UNITS	OVER 15 UNITS
OVERALL TOTAL:	344	193

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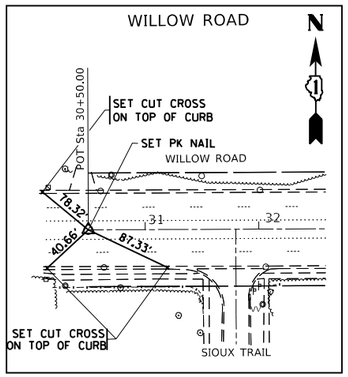
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/8/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
WILLOW ROAD AT PFINGSTEN ROAD

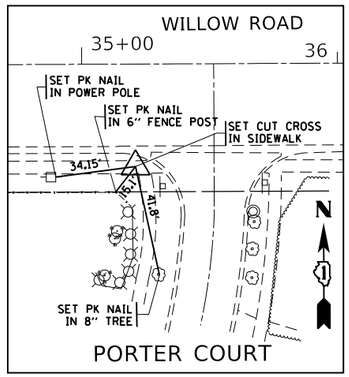
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	15
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		



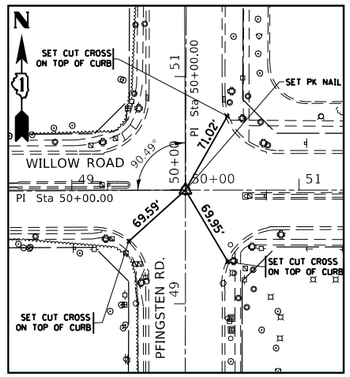
CONTROL POINT #1

PK NAIL IN PAVEMENT ON ℄ WILLOW RD.
STA. 30+50 AT ℄
N = 1981481.9850
E = 1113722.0267
ELEV. =



CONTROL POINT #2

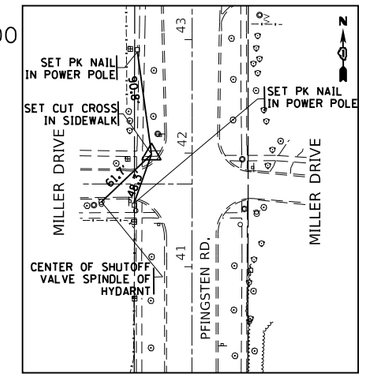
CROSS CUT IN SIDEWALK
STA. 35+22.15, 40.67' RT.
N = 1983336.7032
E = 1114194.2732
ELEV. = 680.58



CONTROL POINT #3

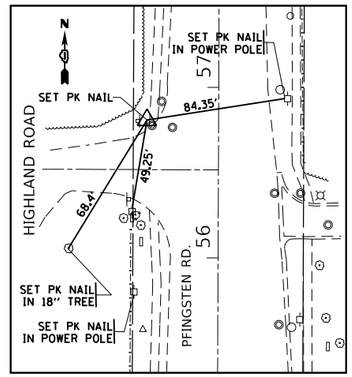
PK NAIL IN PAVEMENT AT INTERSECTION
℄ WILLOW RD. AND ℄ PFINGSTEN RD.
STA. 50+00 ON ℄ WILLOW RD.
STA. 50+00 ON ℄ PFINGSTEN RD.
N = 1981486.7371
E = 1115672.0209
ELEV. = 677.023

MATCHLINE STA. 59+00



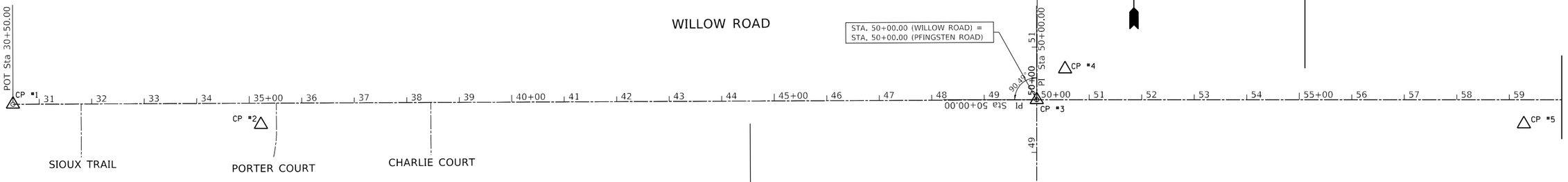
CONTROL POINT #11

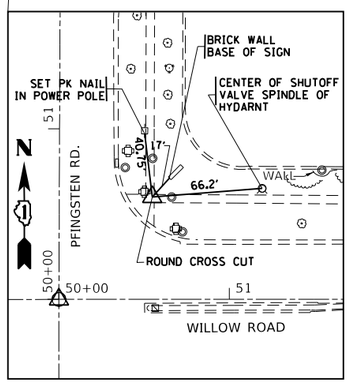
CROSS CUT IN SIDEWALK
STA. 42+00, 35.6' LT. PFINGSTEN RD.
N = 1980686.4290
E = 1115634.0575
ELEV. = 676.76



CONTROL POINT #12

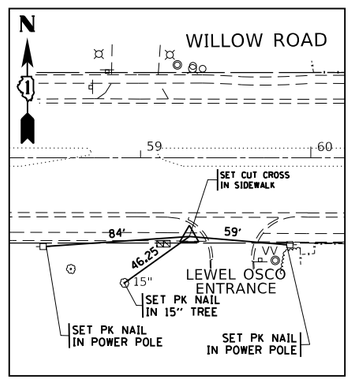
PK NAIL IN PAVEMENT
STA. 50+00 WILLOW RD.
STA. 56+75.67, 43.06 LT. PFINGSTEN RD.
N = 1982162.6572
E = 1115633.1029
ELEV. = 671.48





CONTROL POINT #4

ROUND CROSS CUT IN SIDEWALK
STA. 50+53.79, 58.4' RT. WILLOW RD.
STA. 50+58.62, 53.55' RT. PFINGSTEN RD.
N = 1981545.0308
E = 1115725.9244
ELEV. = 676.60



CONTROL POINT #5

CROSS CUT IN SIDEWALK
STA. 59+27, 45.95' RT.
N = 1981438.9316
E = 1116599.7940
ELEV. = 668.49

BENCHMARKS

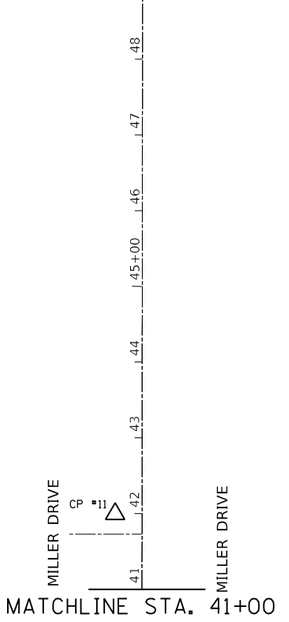
BM#1 "X" ON TOP OF NORTHEAST FLANGE BOLT OF FIRE HYDRANT AT ± 50' SOUTH OF ℄ OF FARMINGTON RD. AND ± 45' EAST OF ℄ OF PFINGSTEN RD.
ELEVATION 674.13

BM#2 "X" ON TOP OF SOUTHWEST FLANGE BOLT OF FIRE HYDRANT AT ± 100' EAST OF ℄ OF CHARLIE CT. AND ± 50' NORTH OF ℄ OF WILLOW RD.
ELEVATION 679.77

BM#3 "X" ON TOP OF NORTHEAST FLANGE BOLT OF FIRE HYDRANT AT ± 15' NORTH OF ℄ OF JO ANNE DR. AND ± 60' WEST OF ℄ OF PFINGSTEN RD.
ELEVATION 677.51

BM#4 NORTHEAST BONNET BOLT OF FIRE HYDRANT AT ± 55' NORTH OF ℄ OF WILLOW RD. AND ± 105' EAST OF ℄ OF PFINGSTEN RD.
ELEVATION 678.11

BM#5 WEST BONNET BOLT OF FIRE HYDRANT ON WESTSIDE OF GREENVIEW RD. ± 60' NORTH OF ℄ OF WILLOW RD.
ELEVATION 665.74



CONTROL POINT	LOCATION STATION	DESCRIPTION	MONUMENT TYPE	NORTHING	EASTING
1	WILLOW RD. 30+50	℄ WILLOW RD.	PK NAIL	1981481.9850	1113722.0267
2	WILLOW RD. 35+22.15	SW CORNER PORTER CT. & WILLOW RD.	"X" CUT	1983336.7032	1114194.2732
3	WILLOW RD. 50+00	INTERSECTION ℄ WILLOW RD. AND ℄ PFINGSTEN RD.	PK NAIL	1981486.7371	1115672.0209
4	WILLOW RD. 50+53.79	NE CORNER PFINGSTON RD. & WILLOW RD.	PK NAIL	1981545.0308	1115725.9244
5	WILLOW RD. 59+27	SW CORNER JEWEL OSCO ENTRANCE & WILLOW RD.	"X" CUT	1981438.9316	1116599.7940
6	WILLOW RD. 65+06	SOUTH SIDE WILLOW RD. NEAR THE STRAND	"X" CUT	1981436.4457	1117177.9525
7	WILLOW RD. 70+50	℄ WILLOW RD.	PK NAIL	1981482.6452	1117722.0168
8	PFINGSTEN RD. 30+00	℄ PFINGSTEN RD.	PK NAIL	1979486.7512	1115664.7301
9	PFINGSTEN RD. 35+05.95	NE CORNER ASTOR CT. & PFINGSTON RD.	"X" CUT	1979992.4272	1115714.1853
10	PFINGSTEN RD. 35+14.02	INTERSECTION ℄ PFINGSTEN RD. AND ℄ JO ANNE DR.	PK NAIL	1980000.7630	1115667.6349
11	PFINGSTEN RD. 59+27	NW CORNER MILLER DR. & PFINGSTON RD.	"X" CUT	1980686.4290	1115634.0575
12	PFINGSTEN RD. 59+27	NW CORNER HIGHLAND RD. & PFINGSTON RD.	PK NAIL	1982783.8980	1115716.4505
13	PFINGSTEN RD. 62+97.41	NE CORNER PFINGSTEN RD. & KINGSTON DR.	"X" CUT	1983336.7032	1115683.2918
14	PFINGSTEN RD. 68+50	℄ PFINGSTEN RD.	PK NAIL	1981481.9850	1113722.0267

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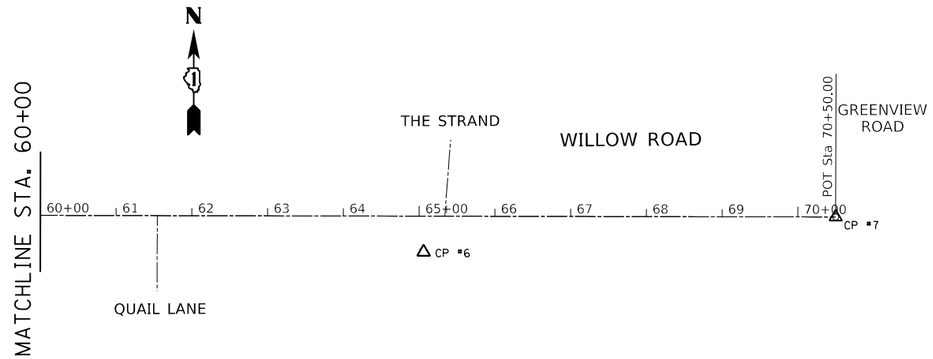
	PLOT SCALE = 200.0000 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 5/8/2020	CHECKED -	REVISED -
		DATE -	REVISED -

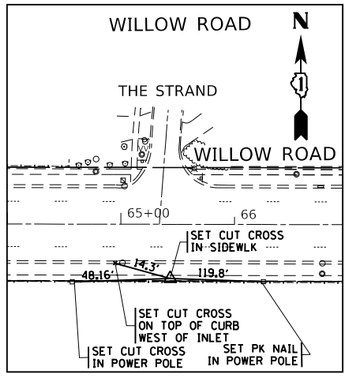
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES AND BENCMARKS
WILLOW RD. AT PFINGSTEN RD.

SCALE: 100' | SHEET NO. OF SHEETS | STA. TO STA.

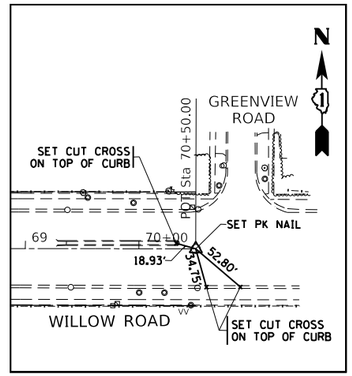
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	16
		CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			





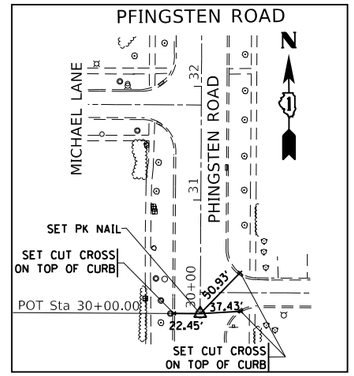
CONTROL POINT #6

CROSS CUT IN SIDEWALK
STA. 65+06, 47.29' RT.
N = 1981436.4457
E = 1117177.9525
ELEV. = 667.74



CONTROL POINT #7

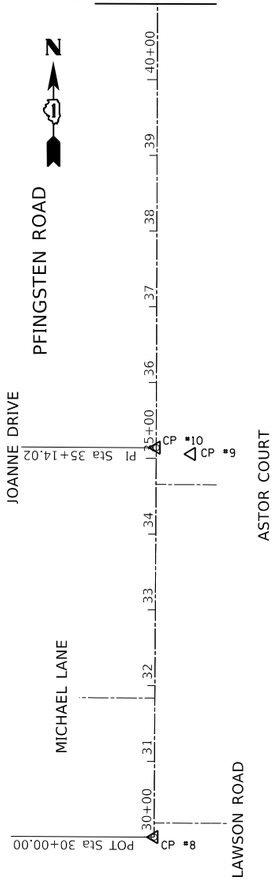
PK NAIL IN PAVEMENT ON ℄ WILLOW RD.
STA. 70+50 ON ℄
N = 1981482.6452
E = 1117722.0168
ELEV. =

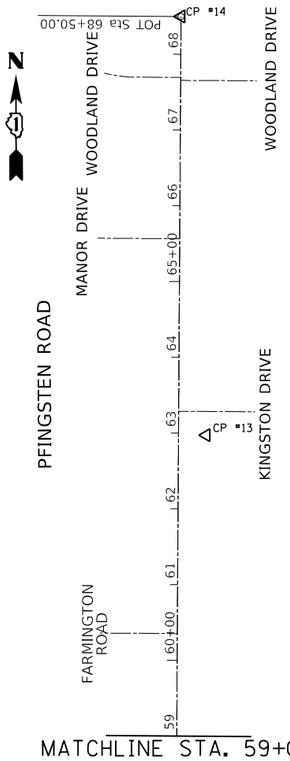


CONTROL POINT #8

PK NAIL IN PAVEMENT ON ℄ PFINGSTEN RD.
STA. 30+00 ON ℄
N = 1979486.7512
E = 1115664.7301
ELEV. =

MATCHLINE STA. 41+00





MATCHLINE STA. 59+00

BENCHMARKS

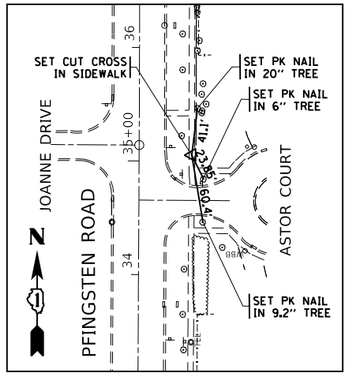
BM#1 "X" ON TOP OF NORTHEAST FLANGE BOLT OF FIRE HYDRANT AT ± 50' SOUTH OF ℄ OF FARMINGTON RD. AND ± 45' EAST OF ℄ OF PFINGSTEN RD.
ELEVATION 674.13

BM#2 "X" ON TOP OF SOUTHWEST FLANGE BOLT OF FIRE HYDRANT AT ± 100' EAST OF ℄ OF CHARLIE CT. AND ± 50' NORTH OF ℄ OF WILLOW RD.
ELEVATION 679.77

BM#3 "X" ON TOP OF NORTHEAST FLANGE BOLT OF FIRE HYDRANT AT ± 15' NORTH OF ℄ OF JO ANNE DR. AND ± 60' WEST OF ℄ OF PFINGSTEN RD.
ELEVATION 677.51

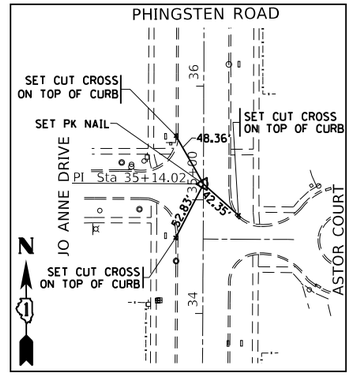
BM#4 NORTHEAST BONNET BOLT OF FIRE HYDRANT AT ± 55' NORTH OF ℄ OF WILLOW RD. AND ± 105' EAST OF ℄ OF PFINGSTEN RD.
ELEVATION 678.11

BM#5 WEST BONNET BOLT OF FIRE HYDRANT ON WESTSIDE OF GREENVIEW RD. ± 60' NORTH OF ℄ OF WILLOW RD.
ELEVATION 665.74



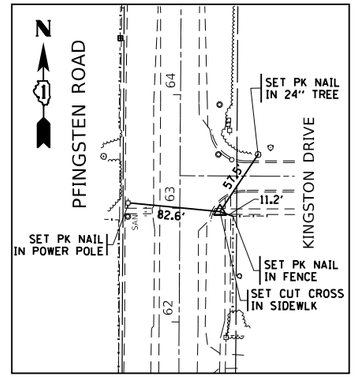
CONTROL POINT #9

CROSS CUT IN SIDEWALK
STA. 35+05.95, 46.6' RT.
N = 1979992.4272
E = 1115714.1853
ELEV. = 676.50



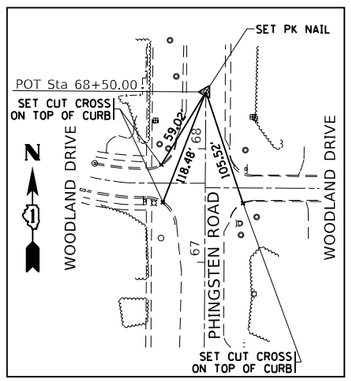
CONTROL POINT #10

PK NAIL IN PAVEMENT ON ℄ PFINGSTEN RD.
JO ANNE DRIVE
STA. 35+14.02 ON ℄
N = 1980000.7630
E = 1115667.6349
ELEV. = 676.377



CONTROL POINT #13

CROSS CUT IN SIDEWALK
STA. 62+97.41, 36.53' RT.
N = 1982783.8980
E = 1115716.4505
ELEV. = 672.03



CONTROL POINT #14

PK NAIL IN PAVEMENT ON ℄ PFINGSTEN RD.
STA. 68+50 ON ℄
N = 1983336.7032
E = 1115683.2918
ELEV. =

CONTROL POINT	LOCATION STATION	DESCRIPTION	MONUMENT TYPE	NORTHING	EASTING
1	WILLOW RD. 30+50	℄ WILLOW RD.	PK NAIL	1981481.9850	1113722.0267
2	WILLOW RD. 35+22.15	SW CORNER PORTER CT. & WILLOW RD.	"X" CUT	1983336.7032	1114194.2732
3	WILLOW RD. 50+00	INTERSECTION ℄ WILLOW RD. AND ℄ PFINGSTEN RD.	PK NAIL	1981486.7371	1115672.0209
4	WILLOW RD. 50+53.79	NE CORNER PFINGSTON RD. & WILLOW RD.	PK NAIL	1981545.0308	1115725.9244
5	WILLOW RD. 59+27	SW CORNER JEWEL OSCO ENTRANCE & WILLOW RD.	"X" CUT	1981438.9316	1116599.7940
6	WILLOW RD. 65+06	SOUTH SIDE WILLOW RD. NEAR THE STRAND	"X" CUT	1981436.4457	1117177.9525
7	WILLOW RD. 70+50	℄ WILLOW RD.	PK NAIL	1981482.6452	1117722.0168
8	PFINGSTEN RD. 30+00	℄ PFINGSTEN RD.	PK NAIL	1979486.7512	1115664.7301
9	PFINGSTEN RD. 35+05.95	NE CORNER ASTOR CT. & PFINGSTON RD.	"X" CUT	1979992.4272	1115714.1853
10	PFINGSTEN RD. 35+14.02	INTERSECTION ℄ PFINGSTEN RD. AND ℄ JO ANNE DR.	PK NAIL	1980000.7630	1115667.6349
11	PFINGSTEN RD. 59+27	NW CORNER MILLER DR. & PFINGSTON RD.	"X" CUT	1980686.4290	1115634.0575
12	PFINGSTEN RD. 59+27	NW CORNER HIGHLAND RD. & PFINGSTON RD.	PK NAIL	1982783.8980	1115716.4505
13	PFINGSTEN RD. 62+97.41	NE CORNER PFINGSTEN RD. & KINGSTON DR.	"X" CUT	1983336.7032	1115683.2918
14	PFINGSTEN RD. 68+50	℄ PFINGSTEN RD.	PK NAIL	1981481.9850	1113722.0267

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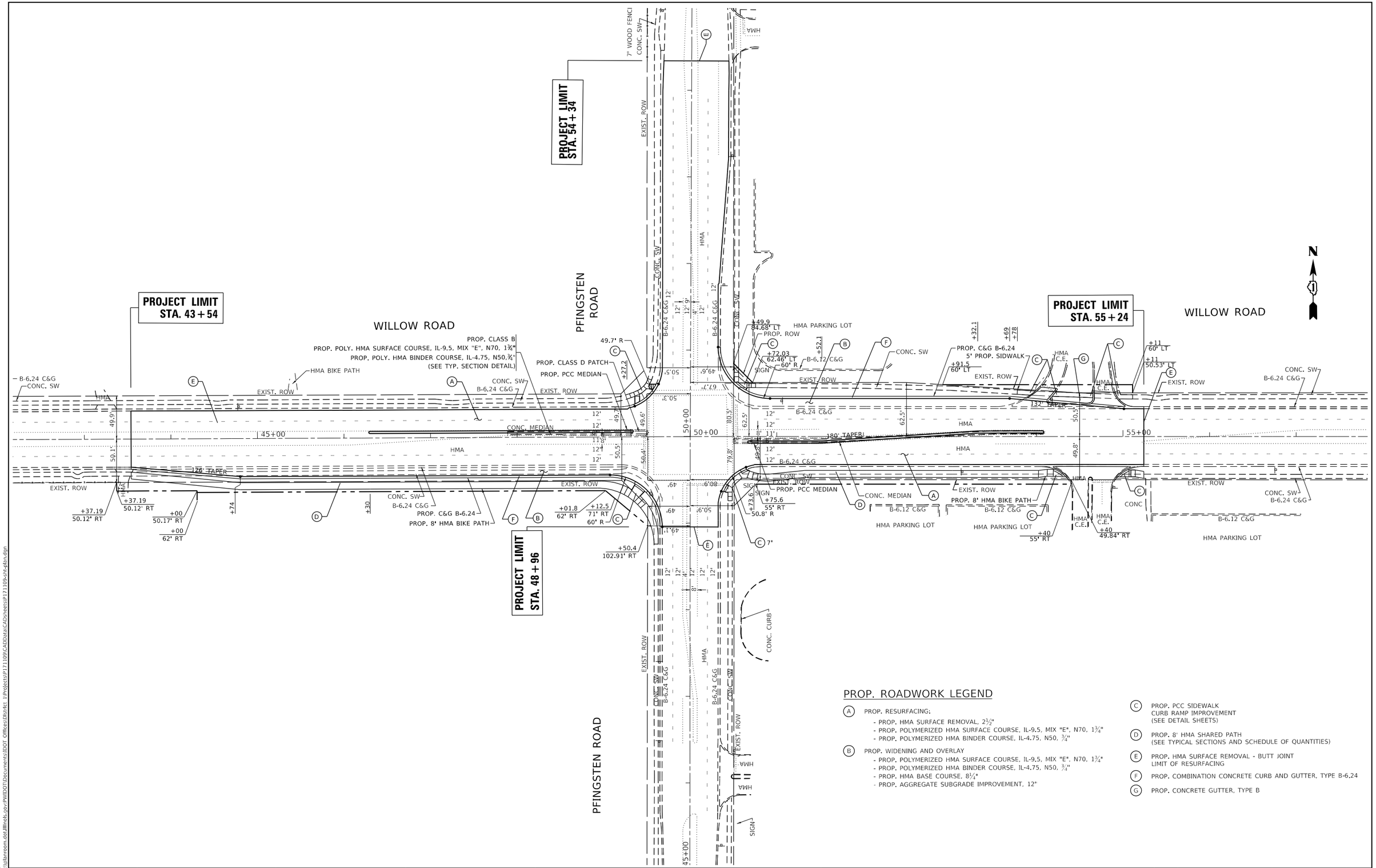
	DRAWN -	REVISED -	
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/8/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES AND BENCMARKS
WILLOW RD. AT PFINGSTEN RD.

SCALE: 100' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(24)	COOK	80	17
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	



PROP. ROADWORK LEGEND

- (A) PROP. RESURFACING:
  - PROP. HMA SURFACE REMOVAL, 2½"
  - PROP. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1¾"
  - PROP. POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, ¾"
- (B) PROP. WIDENING AND OVERLAY
  - PROP. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1¾"
  - PROP. POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, ¾"
  - PROP. HMA BASE COURSE, 8¼"
  - PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (C) PROP. PCC SIDEWALK
  CURB RAMP IMPROVEMENT
  (SEE DETAIL SHEETS)
- (D) PROP. 8' HMA SHARED PATH
  (SEE TYPICAL SECTIONS AND SCHEDULE OF QUANTITIES)
- (E) PROP. HMA SURFACE REMOVAL - BUTT JOINT
  LIMIT OF RESURFACING
- (F) PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (G) PROP. CONCRETE GUTTER, TYPE B

USER NAME = paraynoal	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/8/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	18
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

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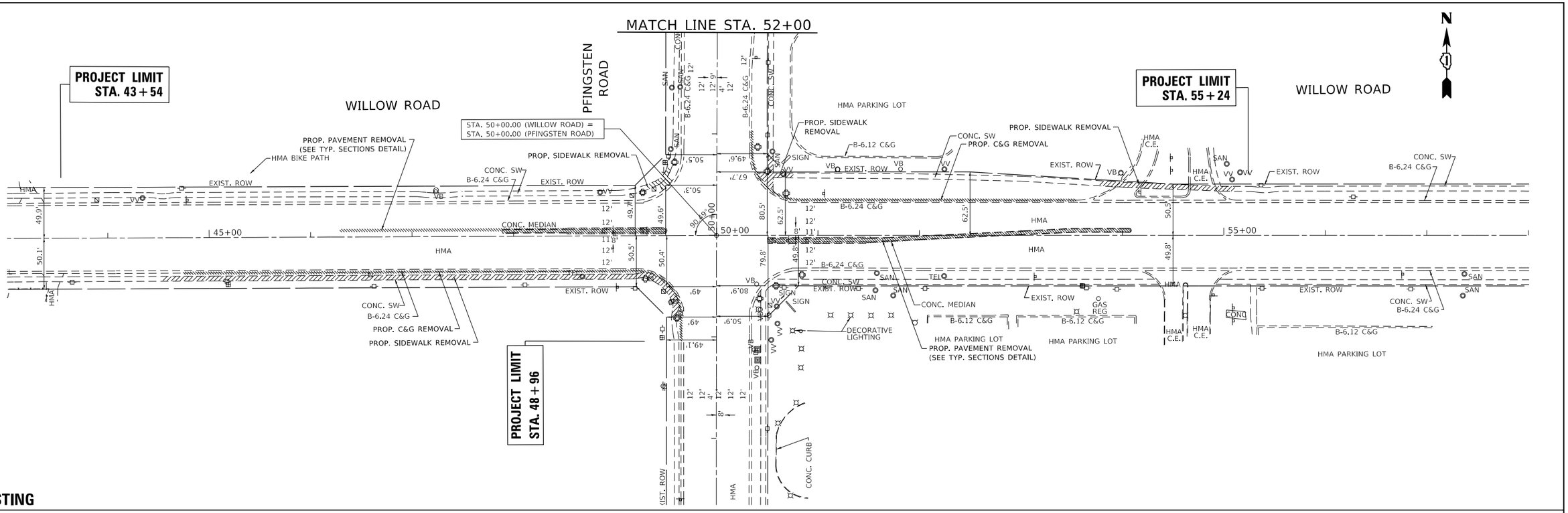

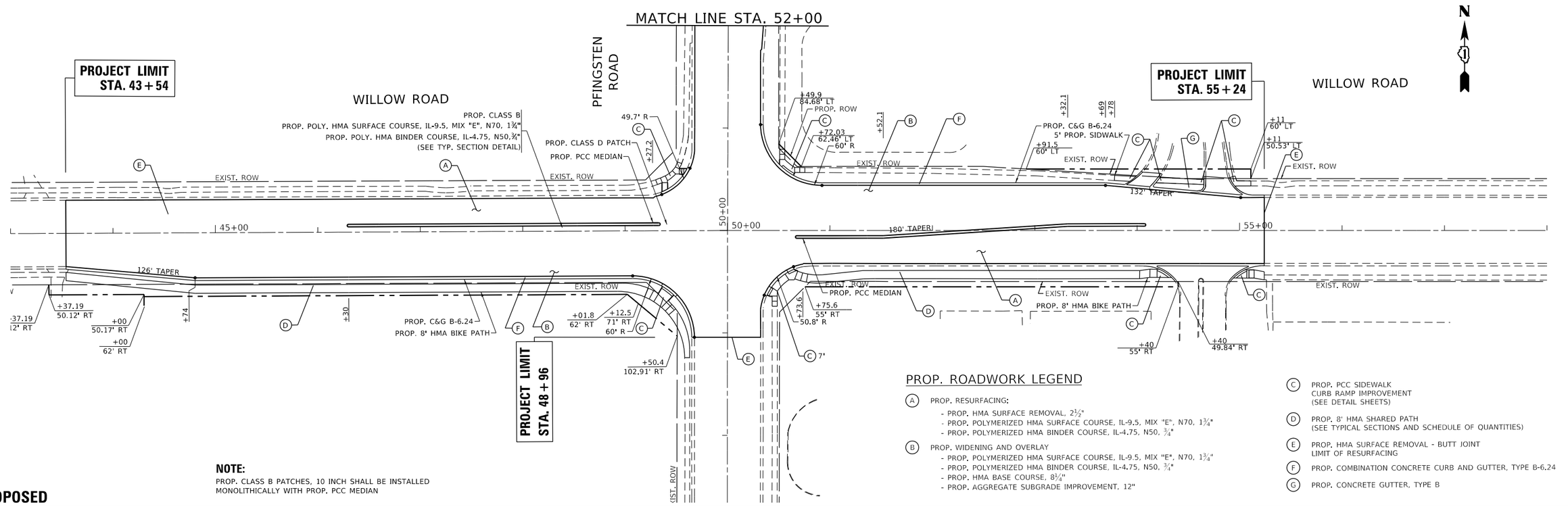

NOTE:
PROP. CLASS B PATCHES, 10 INCH SHALL BE INSTALLED MONOLITHICALLY WITH PROP. PCC MEDIAN

PROP. ROADWORK LEGEND

(A) PROP. RESURFACING:
- PROP. HMA SURFACE REMOVAL, 2½"
- PROP. POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1¾"
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- PROP. HMA BASE COURSE, 8¼"
- PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"

(C) PROP. PCC SIDEWALK CURB RAMP IMPROVEMENT (SEE DETAIL SHEETS)

(D) PROP. 8' HMA SHARED PATH (SEE TYPICAL SECTIONS AND SCHEDULE OF QUANTITIES)

(E) PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING

(F) PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

(G) PROP. CONCRETE GUTTER, TYPE B

USER NAME = keysa	DESIGNED -	REVISED -	**STATE OF ILLINOIS**
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/8/2020	DATE -	REVISED -	

EXISTING AND PROPOSED ROADWAY PLAN
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	19
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

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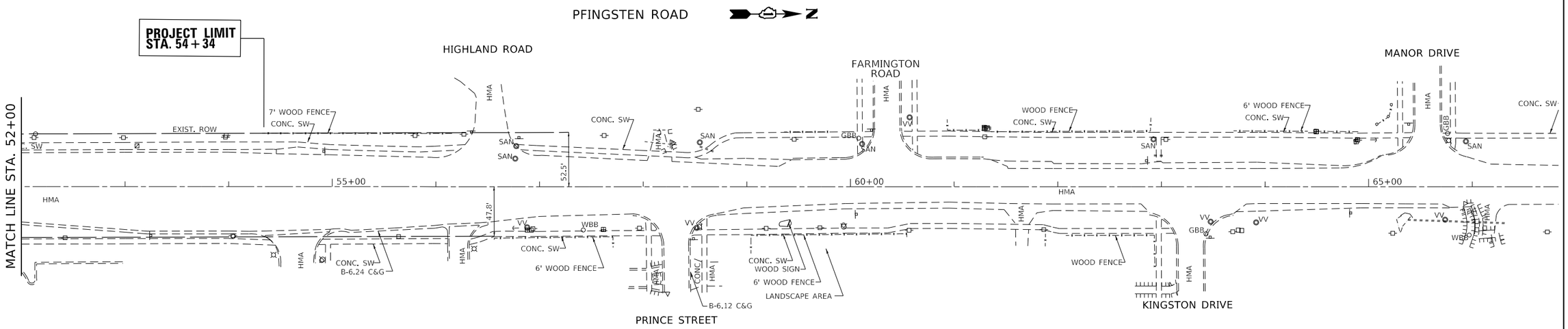

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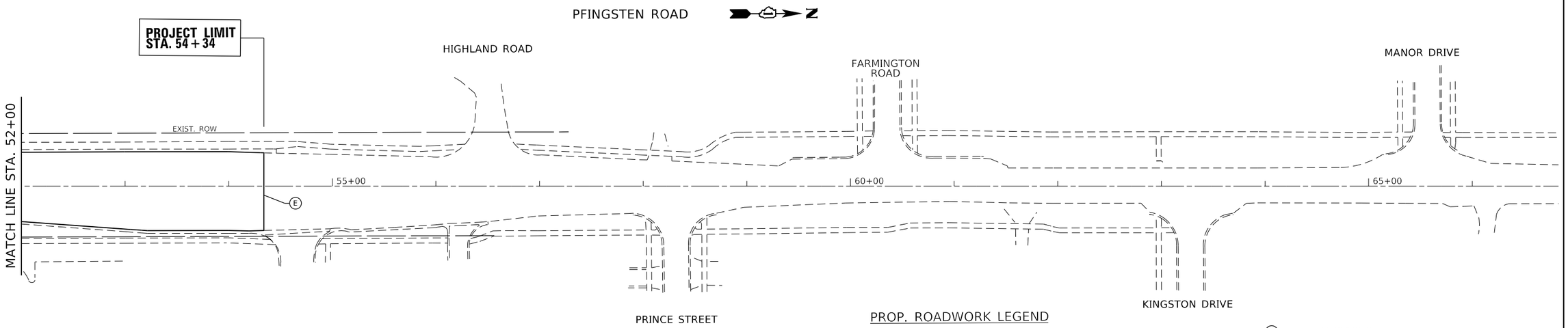

PROP. ROADWORK LEGEND

(A) PROP. RESURFACING:
- PROP. HMA SURFACE REMOVAL, 2½"
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(C) PROP. PCC SIDEWALK
CURB RAMP IMPROVEMENT
(SEE DETAIL SHEETS)

(D) PROP. 8' HMA SHARED PATH
(SEE TYPICAL SECTIONS AND SCHEDULE OF QUANTITIES)

(E) PROP. HMA SURFACE REMOVAL - BUTT JOINT
LIMIT OF RESURFACING

(F) PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

(G) PROP. CONCRETE GUTTER, TYPE B

USER NAME = paraynoal	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/8/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	20
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

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PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.M. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.

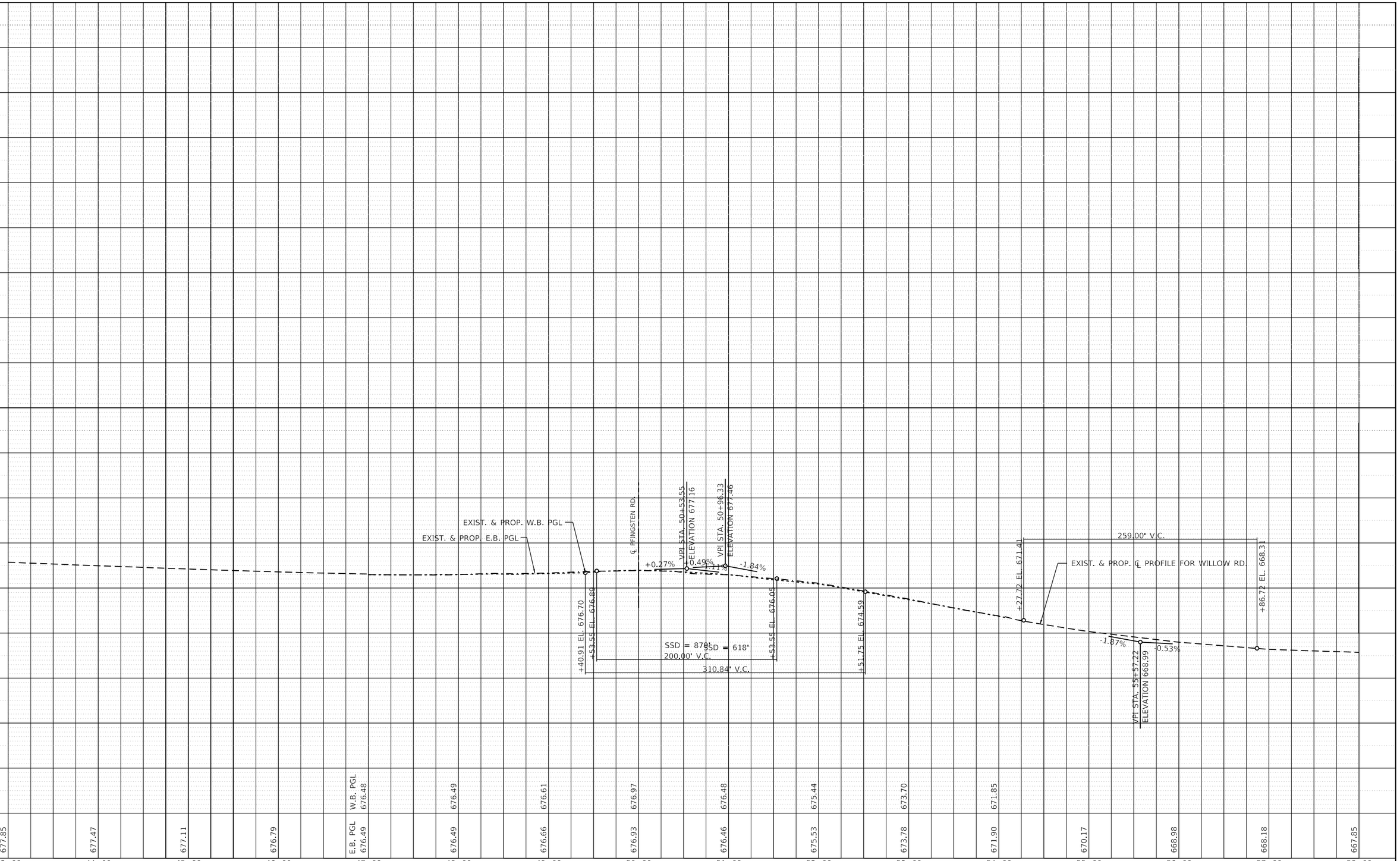
BY | DATE

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
R.M. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.

BY | DATE



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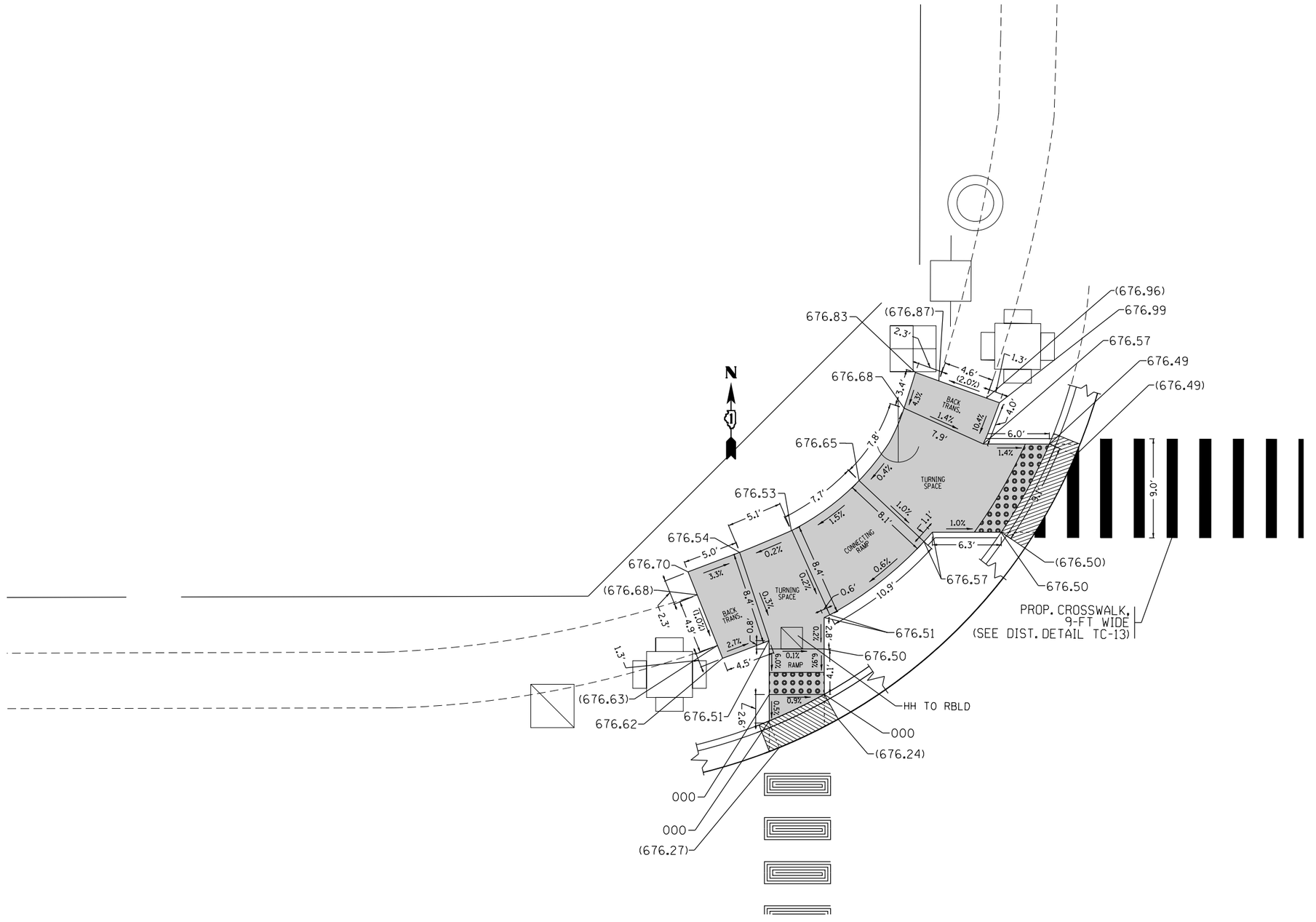
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/8/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED PROFILE
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	21
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	



FOR BENCHMARK ELEVATION(S), SEE ALIGNMENT, TIES, AND BENCHMARK SHEETS.

LEGEND

- XX.XX' — EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) — EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

NORTHWEST CORNER OF WILLOW ROAD AND PFINGSTEN ROAD

USER NAME = paraynoal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/4/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
WILLOW ROAD – AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	22
		CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			

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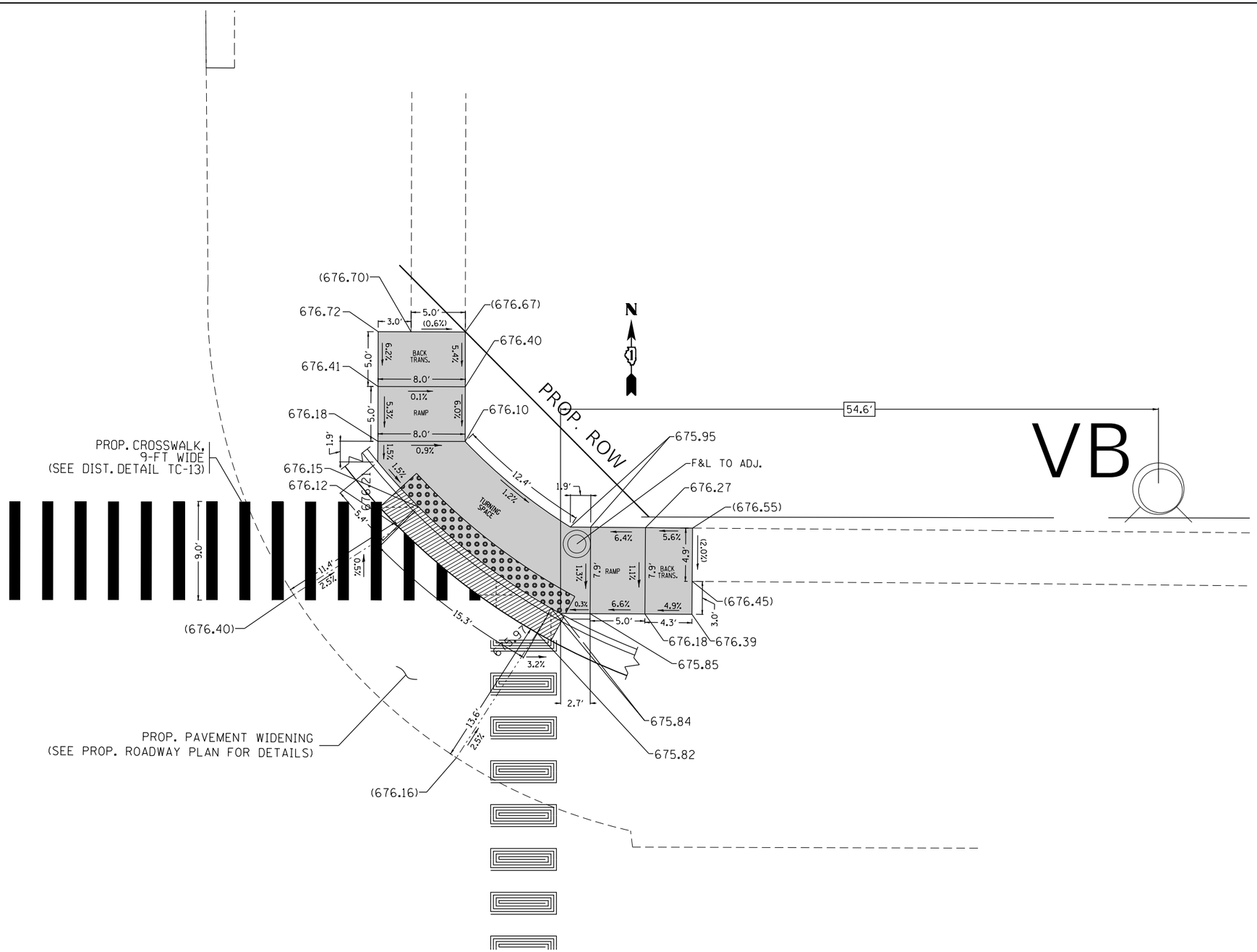

FOR BENCHMARK ELEVATION(S), SEE ALIGNMENT, TIES, AND BENCHMARK SHEETS.

LEGEND

- XX.XX' — EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) — EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

NORTHEAST CORNER OF WILLOW ROAD AND PFINGSTEN ROAD

USER NAME = paraynoal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
WILLOW ROAD – AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	23
		CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			

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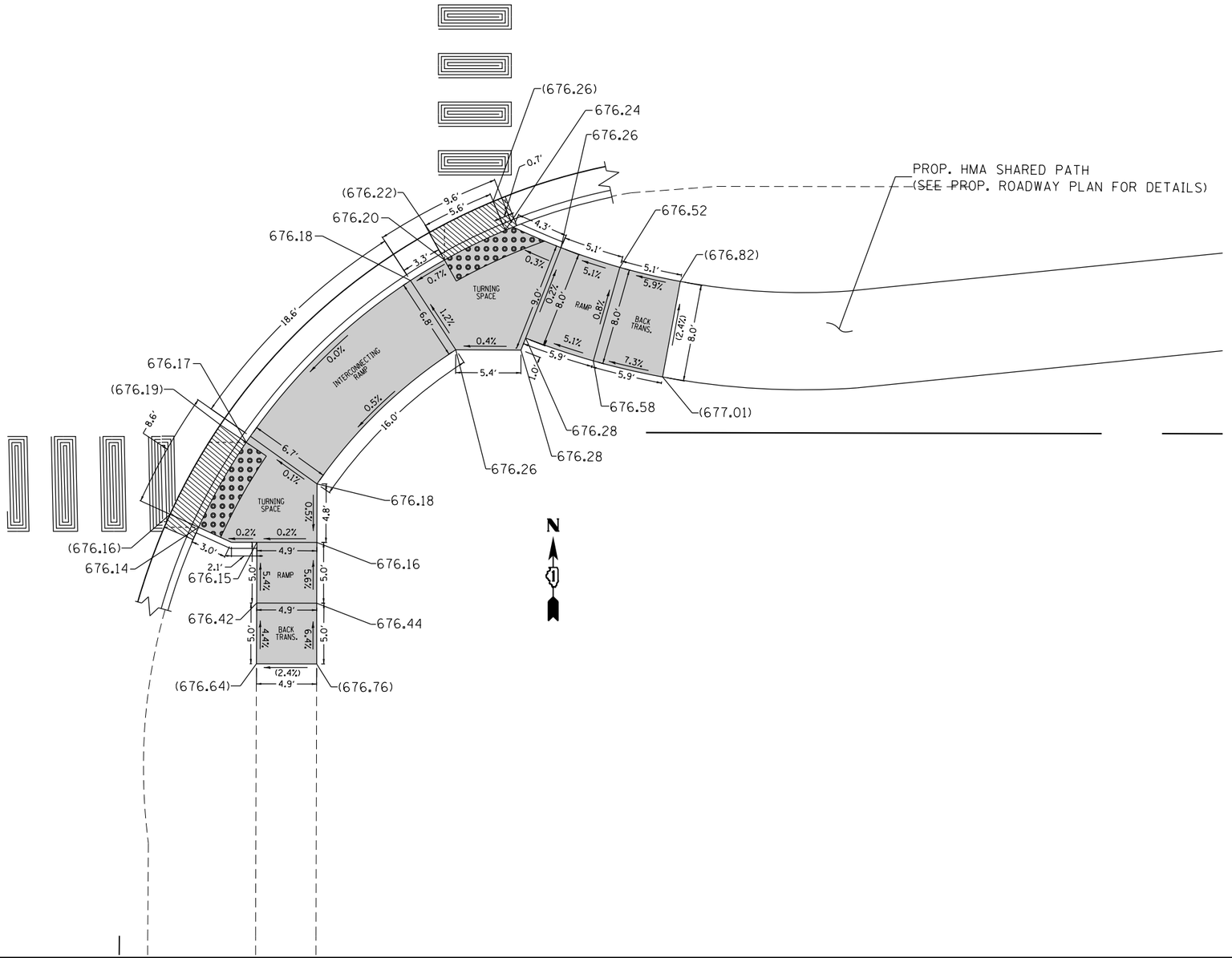

FOR BENCHMARK ELEVATION(S), SEE ALIGNMENT, TIES, AND BENCHMARK SHEETS.

LEGEND

XX.XX'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

SOUTHEAST CORNER OF WILLOW ROAD AND PFINGSTEN ROAD

USER NAME = paraynoal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
WILLOW ROAD – AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	24
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

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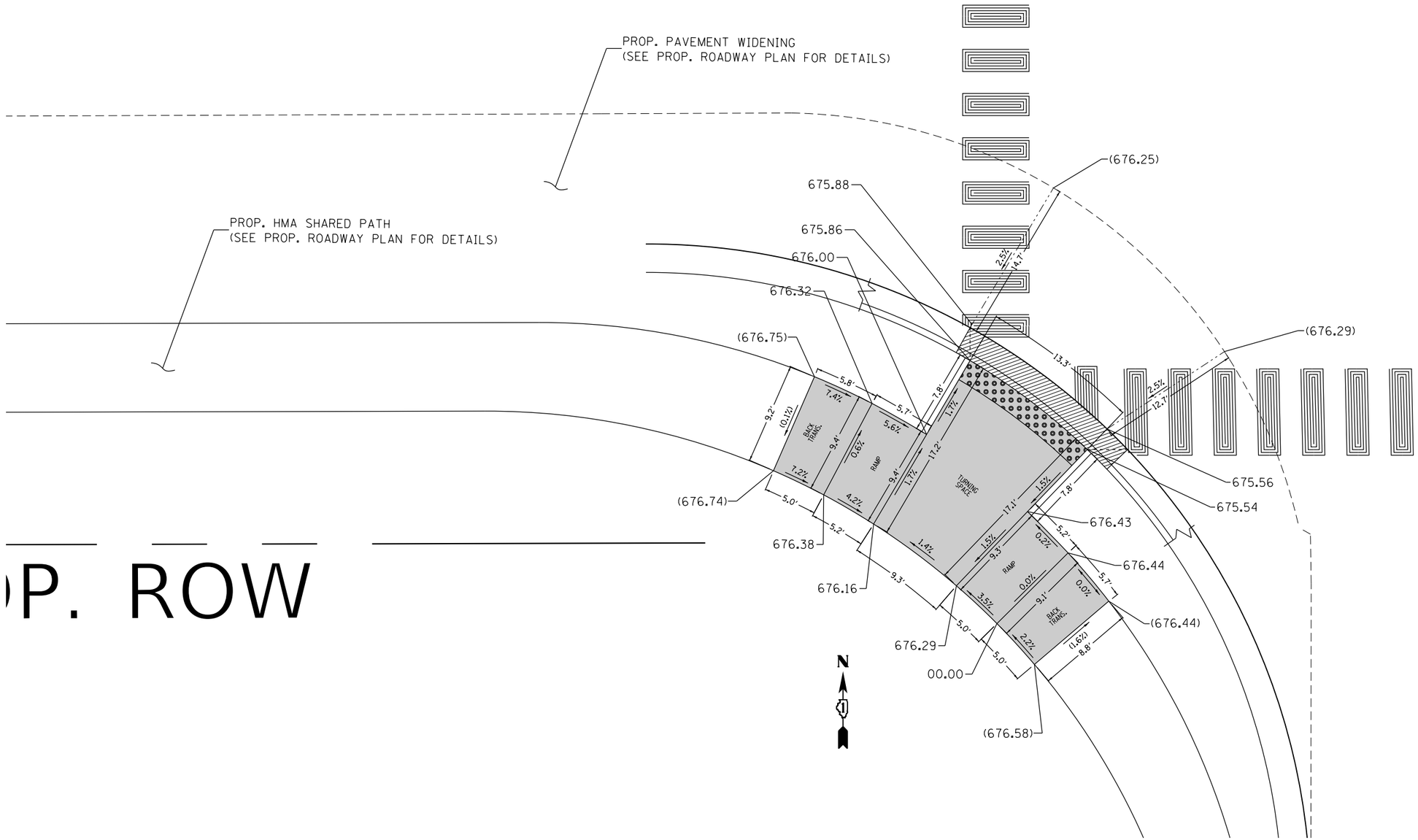

FOR BENCHMARK ELEVATION(S), SEE ALIGNMENT, TIES, AND BENCHMARK SHEETS.

LEGEND

- XX.XX' — EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) — EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

SOUTHWEST CORNER OF WILLOW ROAD AND PFINGSTEN ROAD

USER NAME = paraynoal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
WILLOW ROAD – AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	25
		CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			

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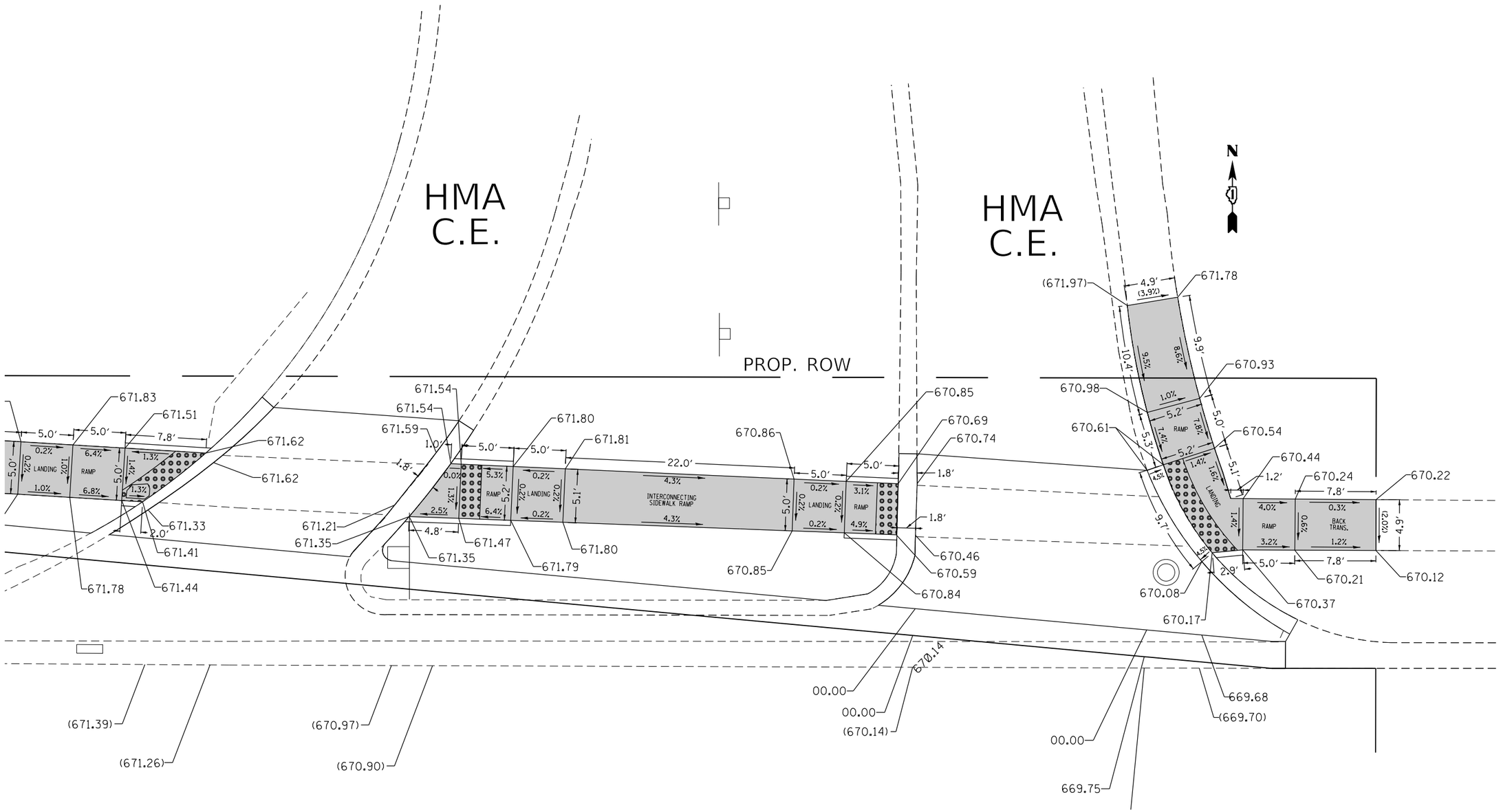

FOR BENCHMARK ELEVATION(S), SEE ALIGNMENT, TIES, AND BENCHMARK SHEETS.

LEGEND

- XX.XX′ — EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) — EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

BY EAST PROJECT LIMIT AT WILLOW ROAD:
NORTH COMMERCIAL ENTRANCE (STA. 54+50)

USER NAME = paraynoal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
WILLOW ROAD – AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	26
		CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			

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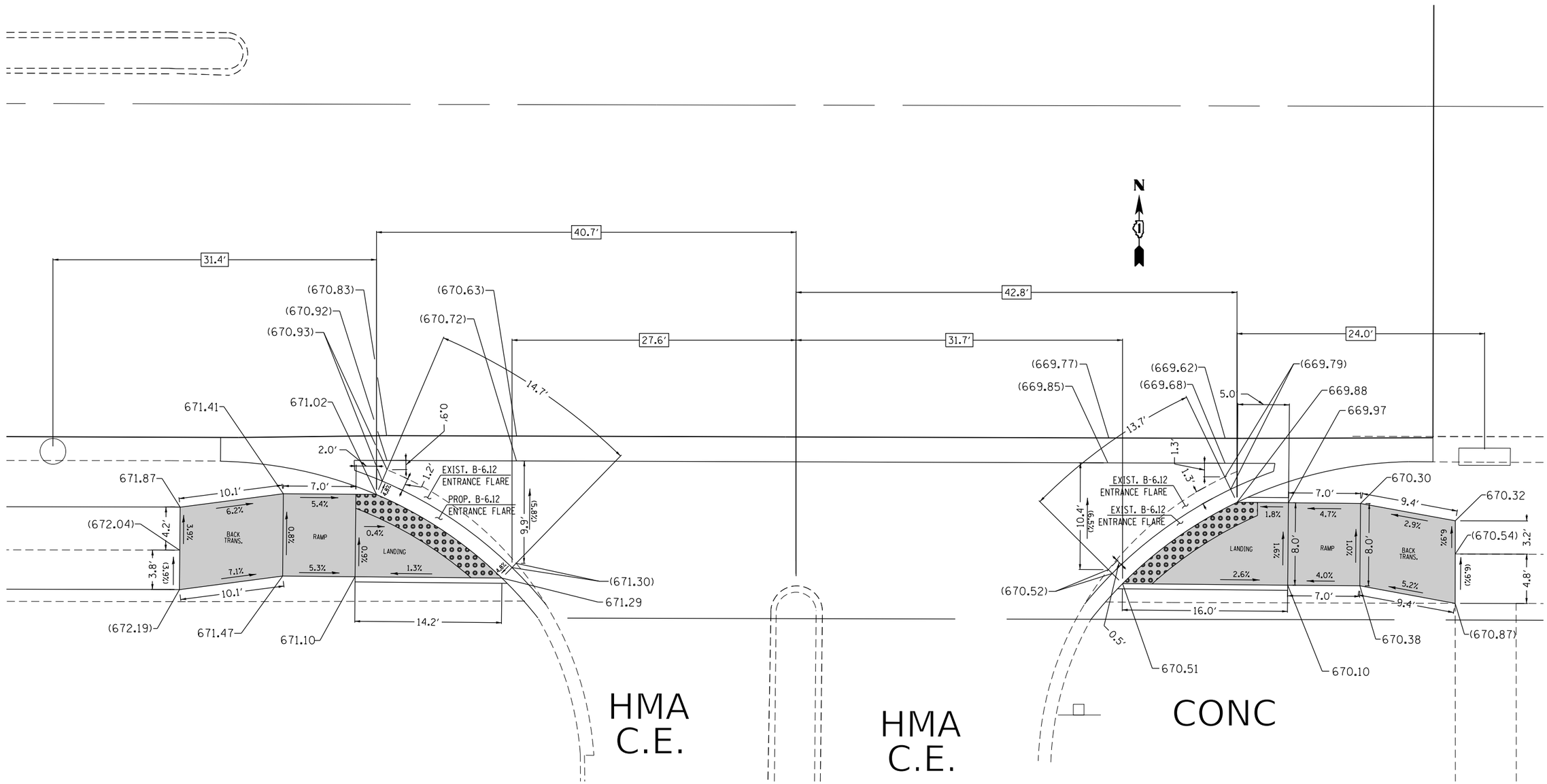

FOR BENCHMARK ELEVATION(S), SEE ALIGNMENT, TIES, AND BENCHMARK SHEETS.

LEGEND

- XX.XX' — EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) — EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

BY EAST PROJECT LIMIT AT WILLOW ROAD:
SOUTH COMMERCIAL ENTRANCE (STA. 54+50)

USER NAME = paraynoal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
WILLOW ROAD – AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	27
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

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EROSION CONTROL LEGEND

- INLET FILTERS
- TEMPORARY EROSION CONTROL SEEDING, MULCH METHOD 2
- PERIMETER EROSION CONTROL BARRIER

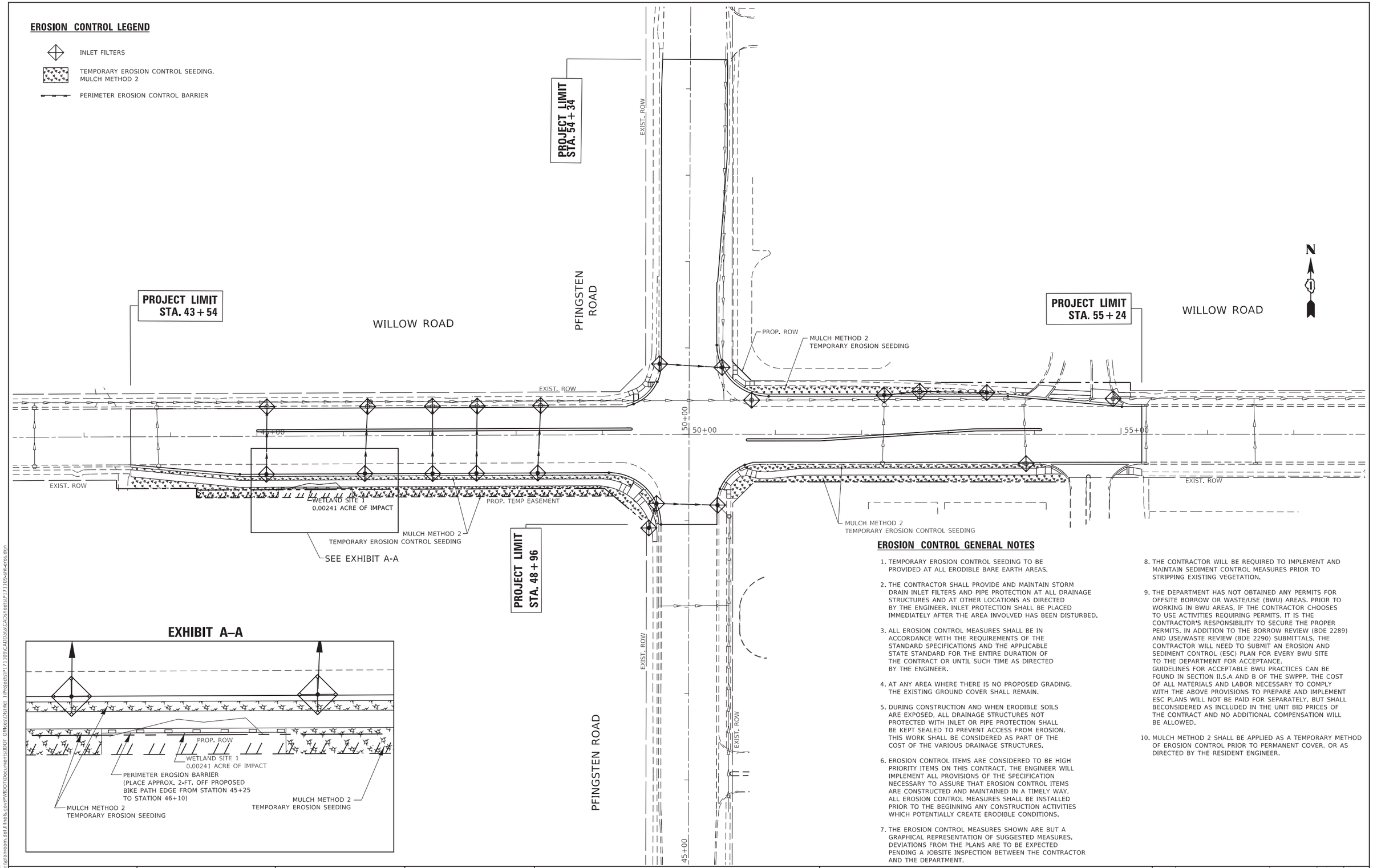

EXHIBIT A–A

EROSION CONTROL GENERAL NOTES

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN STORM DRAIN INLET FILTERS AND PIPE PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
4. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
5. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.
6. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH POTENTIALLY CREATE ERODIBLE CONDITIONS.
7. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THE PLANS ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
8. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
9. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE/USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.5.A AND B OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BECONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. MULCH METHOD 2 SHALL BE APPLIED AS A TEMPORARY METHOD OF EROSION CONTROL PRIOR TO PERMANENT COVER, OR AS DIRECTED BY THE RESIDENT ENGINEER.

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	DRAWN -	REVISED -
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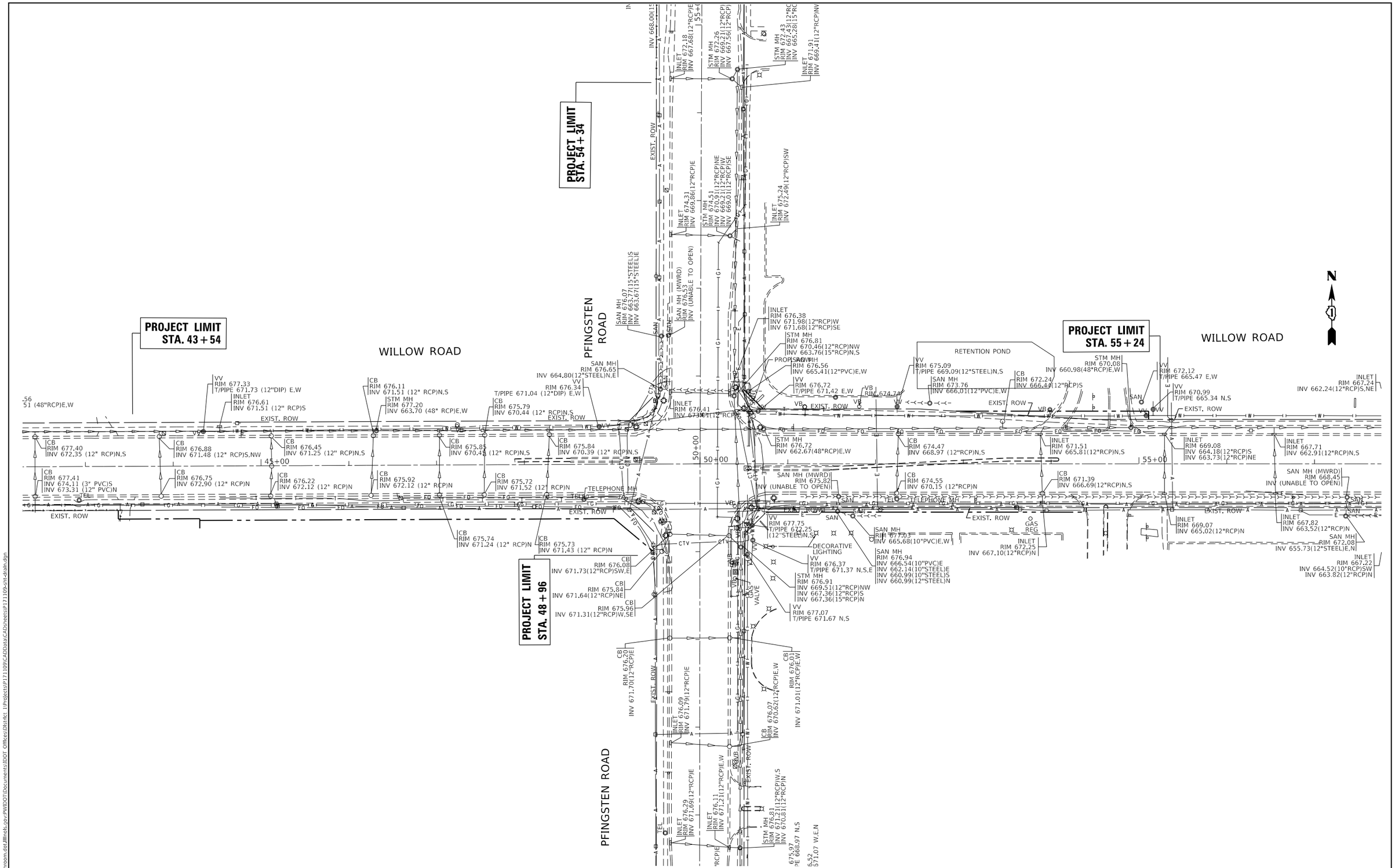
PLOT DATE = 6/15/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
WILLOW ROAD (AT PFINGSTEN ROAD)

SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	28
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	



USER NAME = paraynoal	DESIGNED -	REVISED -	**STATE OF ILLINOIS**	**EXISTING STRUCTURE ELEVATIONS**	F.A.P. RTE. 305
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**WILLOW ROAD (AT PFINGSTEN ROAD)**	SECTION 1719-N(14)
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.	COUNTY COOK
PLOT DATE = 5/7/2020	DATE -	REVISED -			TOTAL SHEETS 80
					SHEET NO. 29
					CONTRACT NO. 60Y23
					ILLINOIS FED. AID PROJECT

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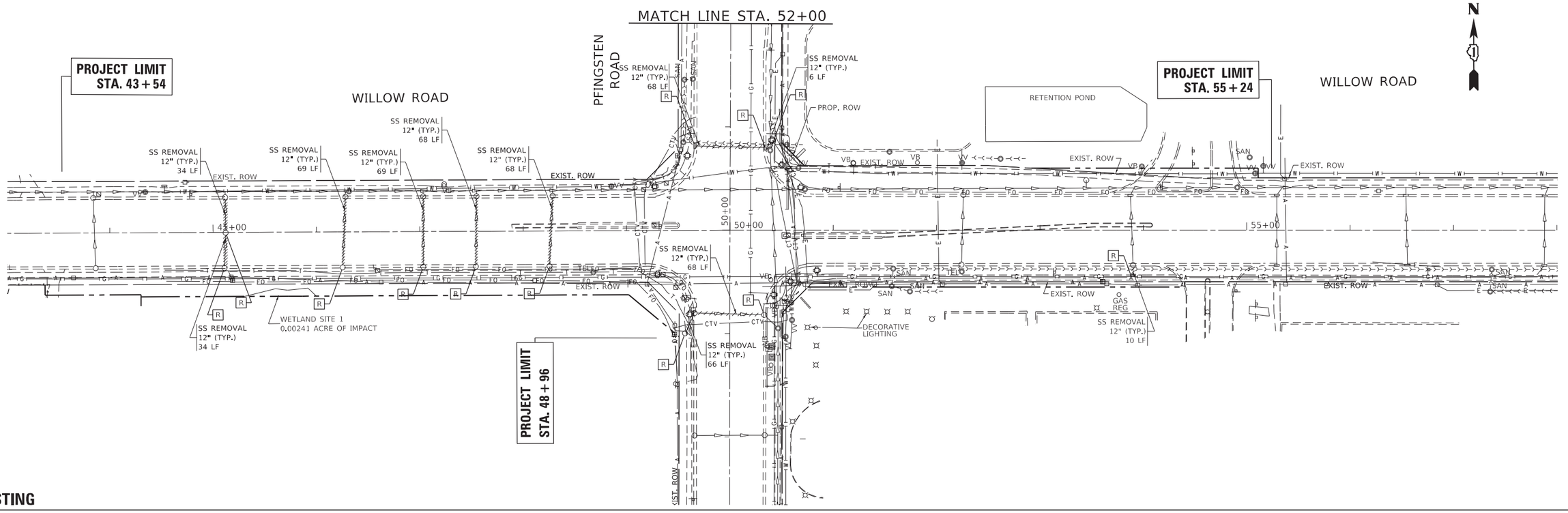

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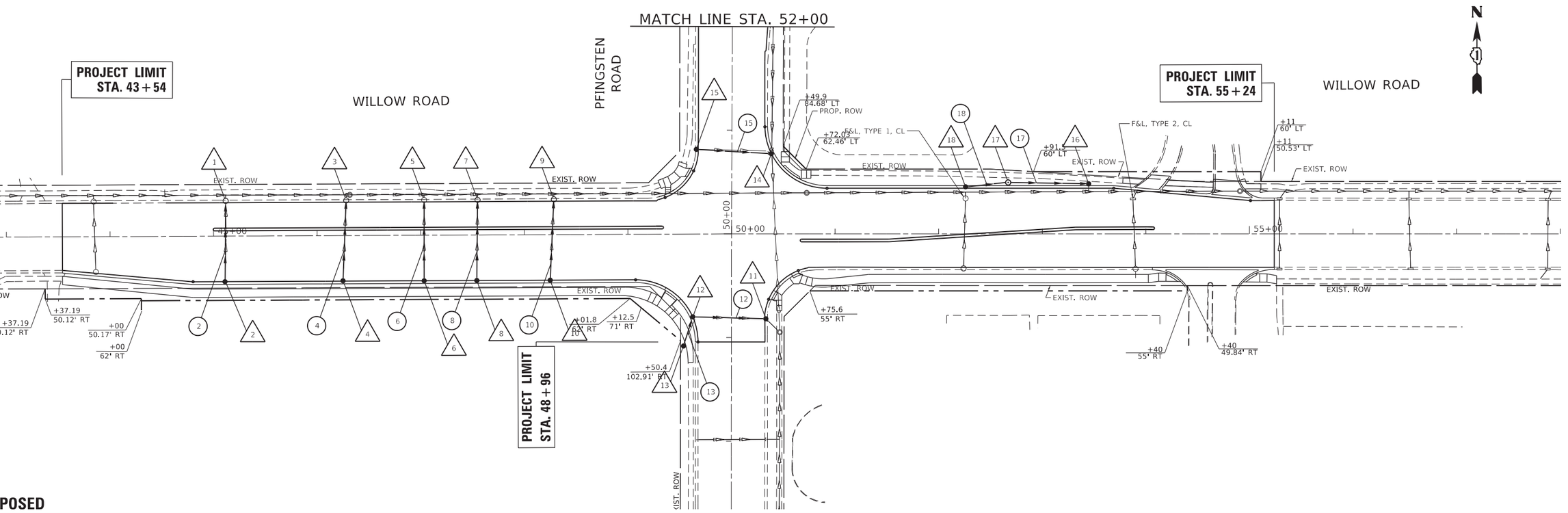

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	DRAWN -	REVISED -	
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PLOT DATE = 8/5/2020	DATE -	REVISED -	

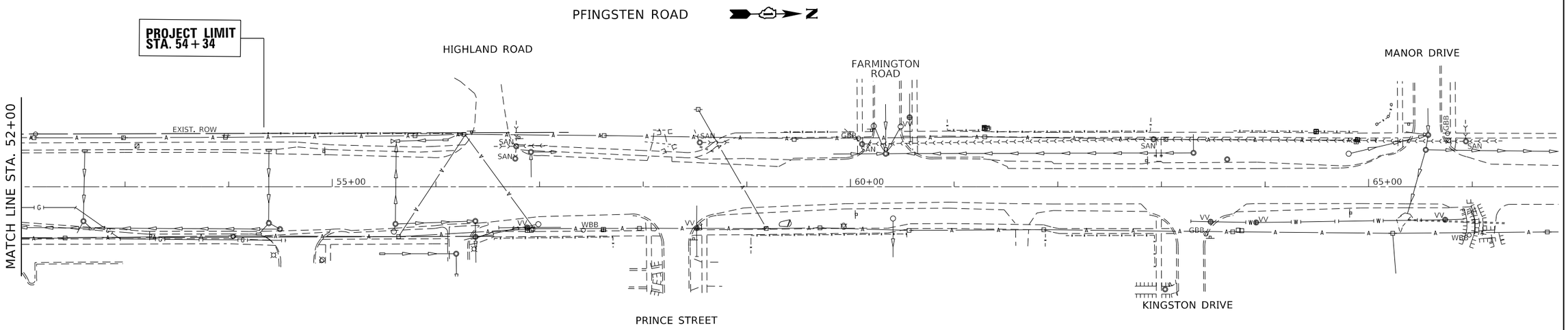
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE
WILLOW ROAD (AT PFINGSTEN ROAD)

SCALE: 1"=50' | SHEET OF SHEETS | STA. 44+54 TO STA. 55+11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	30
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

EXISTING



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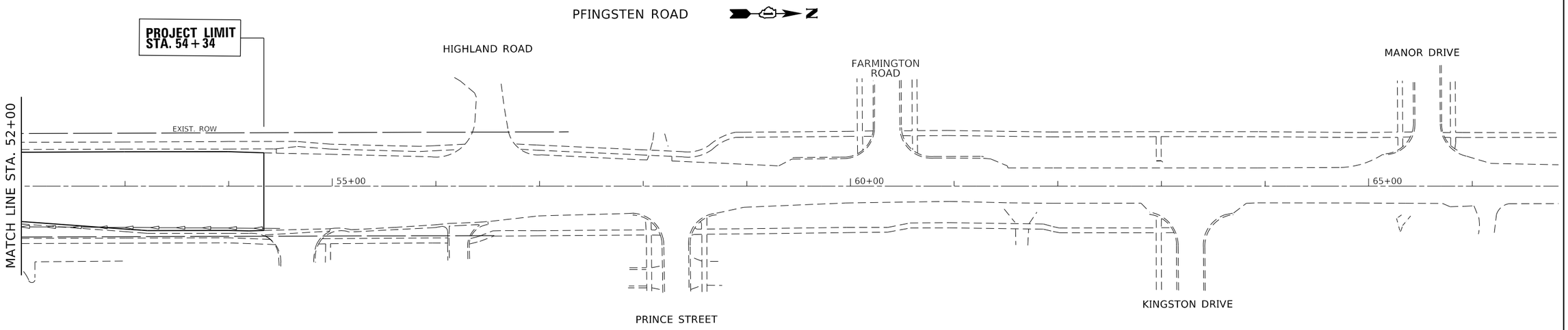

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USER NAME = paraynoal	DESIGNED -	REVISED -	**STATE OF ILLINOIS**
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/7/2020	DATE -	REVISED -	

EXISTING AND PROPOSED DRAINAGE
WILLOW ROAD (AT PFINGSTEN ROAD)

SCALE: 1"=50' | SHEET OF SHEETS | STA. 44+54 TO STA. 55+11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	31
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA. 52+00

PROJECT LIMIT STA. 43+54

WILLOW ROAD

PFINGSTEN ROAD

PROJECT LIMIT STA. 55+24

WILLOW ROAD

N

PROP. ROW

F&L, TYPE 1, CL

F&L, TYPE 2, CL

EXIST. ROW

45+00

50+00

55+00

PROJECT LIMIT STA. 48+96

EXIST. & PROP. ℄ PROFILE FOR WILLOW RD.

EXIST. ℄ PROFILE FOR SOUTH E.O.P. WILLOW RD.

℄ PFINGSTEN RD.

SS WALL

12" SS

TOG = 676.34

TOG = 675.80

TOG = 675.59

TOG = 675.61

TOG = 675.68

TOG = 676.78

TOG = 676.13

TOG = 675.96

INV = 672.12 (N)

INV = 672.12 (N)

INV = 671.24 (N)

INV = 671.52 (N)

INV = 671.43 (N)

INV = 671.98 (N)

INV = 671.73 (S.E)

INV = 671.31 (W)

SOUTH EOP

676.44 676.15 675.89 675.91 676.16 676.82 676.10 674.98 673.25 671.31 669.66 668.46 668.98 668.18 667.85

677.85 677.47 677.11 676.79

690 685 680 675 670 665 660 655 650

43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00

PLAN / PROFILE

SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
QUANTITIES CHECKED
E.M. NOTED
STRUCTURE NOTATIONS CHKD

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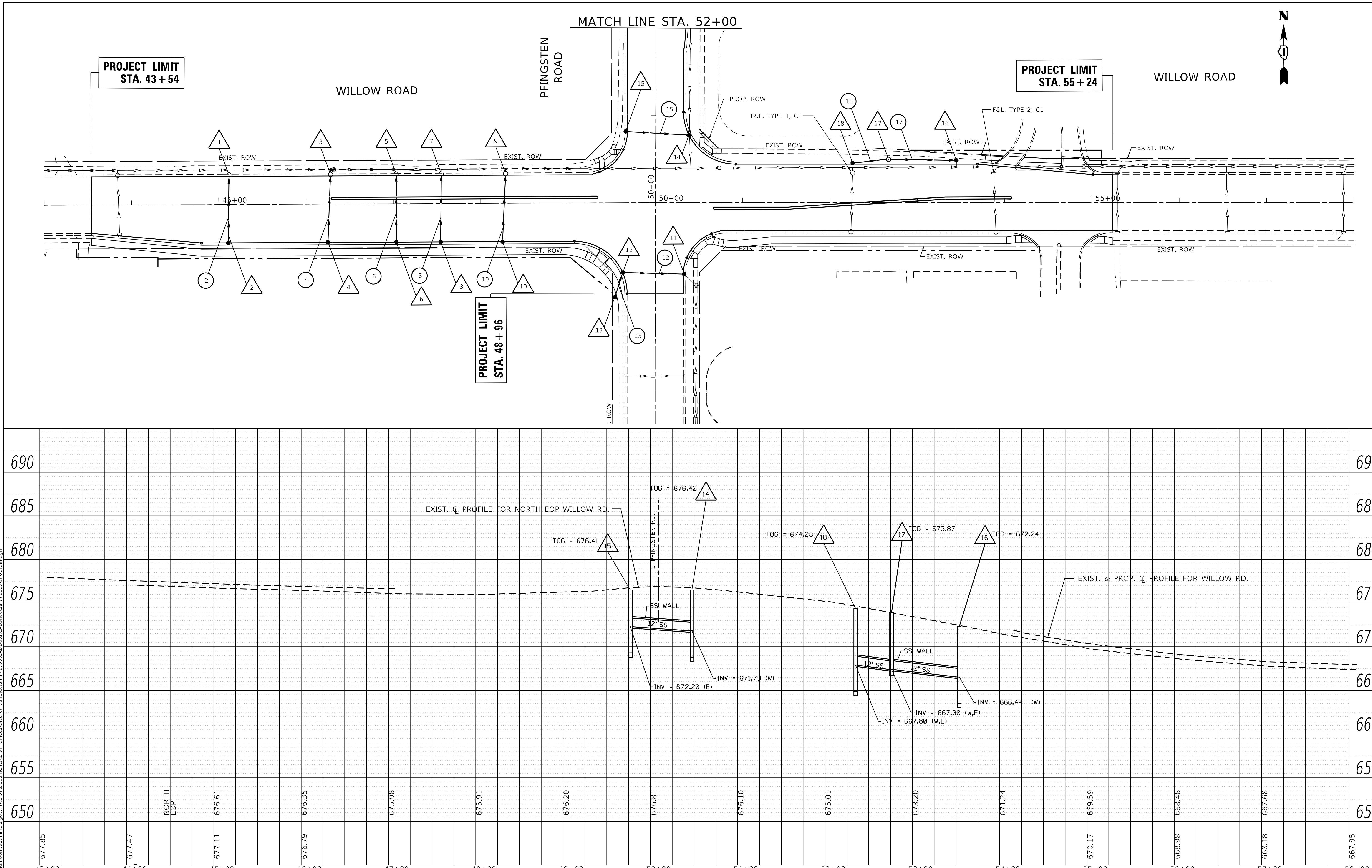
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/7/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN AND PROFILE
SOUTHSIDE OF WILLOW ROAD (AT PFINGSTEN ROAD)

1"=5' V
SCALE: 1"=50' H | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	32
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	



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PROFILE	NOTE BOOK NO.	SURVEYED	PLOTTED	GRADES CHECKED	B.M. NOTED	STRUCTURE NOTAT'NS CH'KD	BY	DATE

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	DRAWN -	REVISED -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 5/7/2020	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN AND PROFILE
NORTHSIDE OF WILLOW ROAD (AT PFINGSTEN ROAD)

SCALE: 1"=50' H 1"=5' V | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	33
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NO'TA'NS CHKD
NOTE BOOK
NO.
BY
DATE

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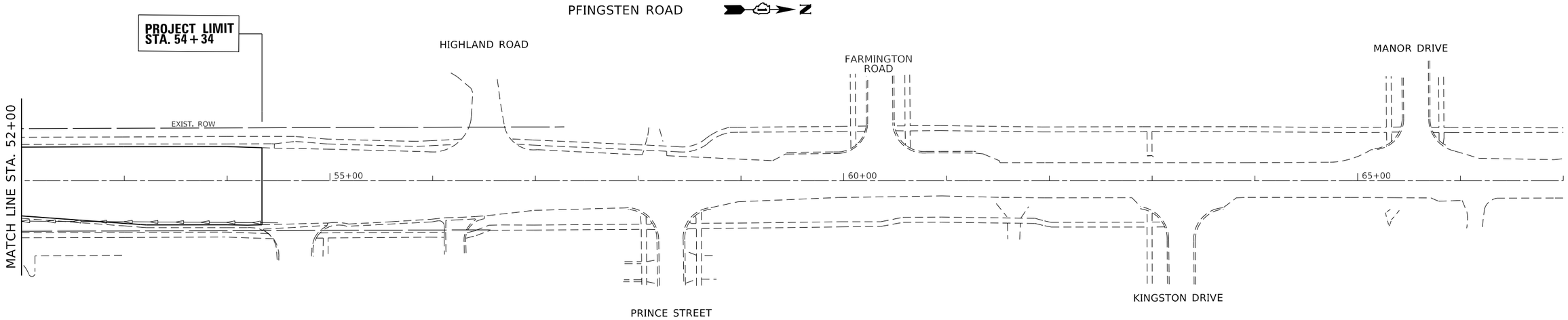

690 685 680 675 670 665 660 655 650

USER NAME = paraynoal	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/7/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN AND PROFILE
WILLOW ROAD (AT PFINGSTEN ROAD)

SCALE: 1"=50' H | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	34
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

NOTE:
UNLESS OTHERWISE NOTED, STATIONING AND OFFSET ARE RELATIVE TO WILLOW ROAD MAINLINE.

DRAINAGE STRUCTURES TABLE

1
EXISTING STRUCTURE TO REMAIN IN PLACE
STA. 45+11.8 / 34.0 LT
T.O.G. = 676.45
INV.(S) = 671.25 (INFLOW, 12" RCP, PROP.)
INV.(N) = 671.25 (OUTFLOW, 12" RCP, EXIST.)

2
CB, TYP. C 2' DIA. W/ F&G TYP. 24
STA. 45+10.8 / 44 RT
T.O.G. = 676.34
INV.(N) = 672.12 (OUTFLOW, 12" RCP, PROP.)

3
EXISTING STRUCTURE TO REMAIN IN PLACE
STA. 46+28.1 / 33.9 LT
T.O.G. = 676.11
INV.(S) = 671.51 (INFLOW, 12" RCP, PROP.)
INV.(N) = 671.51 (OUTFLOW, 12" RCP, EXIST.)

4
CB, TYP. C 2' DIA. W/ F&G TYP. 24
STA. 46+24.8 / 43.6 RT
T.O.G. = 675.80
INV.(N) = 672.12 (OUTFLOW, 12" RCP, PROP.)

5
EXISTING STRUCTURE TO REMAIN IN PLACE
STA. 47+03.4 / 34.0 LT
T.O.G. = 675.85
INV.(S) = 670.45 (INFLOW, 12" RCP, PROP.)
INV.(N) = 670.45 (OUTFLOW, 12" RCP, EXIST.)

6
CB, TYP. C 2' DIA. W/ F&G TYP. 24
STA. 47+03.1 / 43.9 RT
T.O.G. = 675.59
INV.(N) = 671.24 (OUTFLOW, 12" RCP, PROP.)

7
EXISTING STRUCTURE TO REMAIN IN PLACE
STA. 47+55.0 / 33.9 LT
T.O.G. = 675.79
INV.(S) = 670.44 (INFLOW, 12" RCP, PROP.)
INV.(N) = 670.44 (OUTFLOW, 12" RCP, EXIST.)

8
CB, TYP. C 2' DIA. W/ F&G TYP. 24
STA. 47+53.9 / 43.9 RT
T.O.G. = 675.61
INV.(N) = 671.52 (OUTFLOW, 12" RCP, PROP.)

9
EXISTING STRUCTURE TO REMAIN IN PLACE
STA. 48+28.6 / 34.0 LT
T.O.G. = 675.84
INV.(S) = 670.39 (INFLOW, 12" RCP, PROP.)
INV.(N) = 670.39 (OUTFLOW, 12" RCP, EXIST.)

10
CB, TYP. C 2' DIA. W/ F&G TYP. 24
STA. 48+24.8 / 43.9 RT
T.O.G. = 675.68
INV.(N) = 671.43 (OUTFLOW, 12" RCP, PROP.)

FLAT TOP 11
CB, TYP. A 4' DIA. W/ F&G TYP. 24
STA. 49+18.1 / 33.2 RT
(STA. AND OFFSET RELATIVE TO PFINGSTEN RD.)
T.O.G. = 675.96
INV.(W) = 671.31 (INFLOW, 12" RCP, PROP.)
INV.(SE) = 671.31 (OUTFOW, 12" RCP, EXIST.)

FLAT TOP 12
CB, TYP. A 4' DIA. W/ F&G TYP. 24
STA. 49+19.9 / 37.4 LT
(STA. AND OFFSET RELATIVE TO PFINGSTEN RD.)
T.O.G. = 676.13
INV.(S) = 671.73 (INFLOW, 12" RCP, PROP.)
INV.(E) = 671.73 (OUTFLOW, 12" RCP, PROP.)

13
MH, TYP. A 4' DIA. W/ F&L, CL, TYP. 8
STA. 48+91.7 / 46.3 LT
(STA. AND OFFSET RELATIVE TO PFINGSTEN RD.)
T.O.G. = 676.78
INV.(N) = 671.98 (OUTFLOW, 12" RCP, PROP.)

FLAT TOP 14
CB, TYP. A 4' DIA. W/ F&G TYP. 24
STA. 50+77.5 / 38.1 RT
(STA. AND OFFSET RELATIVE TO PFINGSTEN RD.)
T.O.G. = 676.42
INV.(W) = 671.73 (INFLOW, 12" RCP, PROP.)
INV.(N) = 671.73 (INFLOW, 15" RCP, EXIST.)
INV.(S) = 671.73 (OUTFLOW, 15" RCP, EXIST.)

15
CB, TYP. A 2' DIA. W/ F&G TYP. 24
STA. 50+81.4 / 34.3 LT
(STA. AND OFFSET RELATIVE TO PFINGSTEN RD.)
T.O.G. = 676.41
INV.(E) = 672.20 (OUTFLOW, 12" RCP, PROP.)

16
MH, TYP. A 4' DIA. W/ F&L, TYP. 24
STA. 53+44.7 / 48.4 LT
T.O.G. = 672.24
INV.(W) = 666.44 (INFLOW, 12" RCP, PROP.)
INV.(S) = 666.44 (OUTFLOW, 12" RCP, EXIST.)

17
MH, TYP. A 4' DIA. W/ F&L, CL, TYP. 1
STA. 52+67.1 / 49.6 LT
T.O.G. = 673.87
INV.(W) = 667.30 (INFLOW, 12" RCP, PROP.)
INV.(E) = 667.30 (OUTFLOW, 12" RCP, PROP.)

18
CB, TYP. C 2' DIA. W/ F&G TYP. 24
STA. 52+25.9 / 45.5 LT
T.O.G. = 674.28
INV.(E) = 667.80 (OUTFLOW, 12" RCP, PROP.)

SHORTHAND AND SYMBOL LEGEND

MH	=	MANHOLE
CB	=	CATCH BASIN
DIA.	=	DIAMETER, IN FEET
F&G	=	FRAME AND GRATE
F&L	=	FRAME AND LID
CL	=	CLOSED LID
OL	=	OPEN LID
TYP.	=	TYPE
STA.	=	STATION
T.O.G.	=	TOP OF GRADE ELEVATION IN FEET
INV.	=	INVERT ELEVATION IN FEET
LT	=	OFFSET DISTANCE TO THE LEFT OF ALIGNMENT LINE, IN FEET
RT	=	OFFSET DISTANCE TO THE RIGHT OF ALIGNMENT LINE, IN FEET

NOTES:

STORM SEWER OFFSET LOCATIONS GIVEN ON THE DETAIL PLANS ARE TO THE FOLLOWING POINTS:

A) STRUCTURES FALLING WITHIN THE CURB LINE ARE MEASURED TO THE EDGE OF PAVEMENT.

B) ALL OTHER STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE.

THE INSTALLATION AND CONNECTION OF A PROPOSED STRUCTURE (CATCH BASIN/MANHOLE/INLET) OVER AN EXISTING STORM SEWER AND/OR A PROPOSED STORM SEWER CONNECTION TO AN EXISTING STRUCTURE, AND THE REMOVAL WORK REQUIRED TO MAKE THE CONNECTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE ITEM BEING INSTALLED.

PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED A MINIMUM OF 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER, THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ARTICLE 550.07 (b, c) OF THE SSRBC WILL NOT BE ALLOWED.

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USER NAME = paraynoal	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/4/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURES TABLE
WILLOW ROAD (AT PFINGSTEN ROAD)

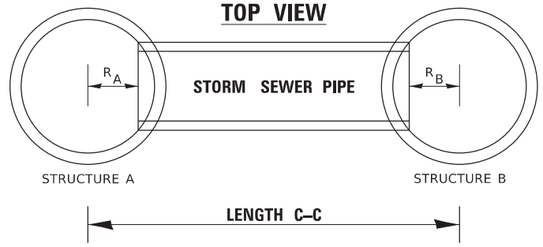
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	35
		CONTRACT NO. 60Y23		
		ILLINOIS FED. AID PROJECT		

DRAINAGE STRUCTURES AND STORM SEWERS TABLE

	STORM SEWER PIPES	C–C LENGTH	ADJUSTED LENGTH	PIPE LOCATION: STRUCTURE (DOWNSTREAM)	TO	STRUCTURE (UPSTREAM)
	INTERSECTION WEST LEG (WILLOW ROAD)					
2	PROP. STORM SEWERS, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 13.4 CUBIC YARDS	77.9'	74.1'	FLAT TOP 1	TO	2
4	PROP. STORM SEWERS, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 11.3 CUBIC YARDS	77.5'	73.7'	FLAT TOP 3	TO	4
6	PROP. STORM SEWERS, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 14.0 CUBIC YARDS	77.9'	74.1'	FLAT TOP 5	TO	6
8	PROP. STORM SEWERS, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 13.5 CUBIC YARDS	77.9'	74.1'	FLAT TOP 7	TO	8
10	PROP. STORM SEWERS, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 14.0 CUBIC YARDS	78.1'	74.3'	FLAT TOP 9	TO	10
	INTERSECTION SOUTH LEG (PFINGSTEN ROAD)					
12	PROP. STORM SEWERS, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 11.5 CUBIC YARDS	70.7'	66.9'	FLAT TOP 11	TO FLAT TOP	12
13	PROP. STORM SEWERS, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 4.5 CUBIC YARDS	29.3'	25.5'	FLAT TOP 12	TO	13
	INTERSECTION NORTH LEG (PFINGSTEN ROAD)					
15	PROP. STORM SEWERS, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 11.7 CUBIC YARDS	73.0'	69.3'	FLAT TOP 14	TO	15
	INTERSECTION EAST LEG (WILLOW ROAD)					
17	PROP. STORM SEWERS, CLASS A, TYPE 2, WATERMAIN QUALITY PIPE, 12" TRENCH BACK FILL = 0.0 CUBIC YARD	77.6'	73.3'	16	TO	17
18	PROP. STORM SEWERS, CLASS A, TYPE 2, WATERMAIN QUALITY PIPE, 12" TRENCH BACK FILL = 0.0 CUBIC YARD	41.4'	37.6'	17	TO	18

DESIGNER NOTE:
STORM SEWER PIPE ADJUSTED LENGTH:
= LENGTH C-C MINUS R_A MINUS R_B
(SEE SKETCH BELOW)



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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/4/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SEWER PIPES TABLE
WILLOW ROAD (AT PFINGSTEN ROAD)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	36
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

SAM
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Ofc 703.361.6005 Fax 703.361.7587
info@sam.biz www.sam.biz

P171109_SUE.DGN	Designated By: B.J. E.F.
Scale:	Drafted By: P.B.
Sheet: COVER	Checked By: S.W.
Date: 02-15-2019	1018047137

ILLINOIS
SCOTT A. WECHTER
REG. 62-042188
REGISTERED PROFESSIONAL ENGINEER

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 02-15-2019

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC

UTILITY OWNERS

NICOR GAS
ATTN: BRUCE KOPPANG
1844 FERRY ROAD
NAPERVILLE, IL 60563
630-388-3046
bkoppang@southernco.com

VILLAGE OF GLENVIEW
ATTN: JAMES TIGUE
2500 EAST LAKE AVENUE
GLENVIEW, IL 60026
847-904-4334

METROPOLITAIN WATER RECLAIMATION DISTRICT
ATTN: KOS CHESTER
111 EAST ERIE STREET, 5TH FLOOR
CHICAGO, IL 60611

AT&T (LEGAL MANDATE)
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KCI TECHNOLOGIES
10 NORTH JEFFERSON STREET, SUITE 308
FREDERICK, MD 21701
630-383-9249
kc1298@att.com

VERIZON BUSINESS (MCI)
ATTN: DEAN BOYERS
400 INTERNATIONAL PARKWAY
RICHARDSON, TX 75081
469-886-4238
dean.boyers@verizon.com

WIDE OPEN WEST (WOW)
ATTN: PAUL FLINKOW
1674 FRONTENAC ROAD
NAPERVILLE, IL 60563
630-536-3139
paul.flinkow@wowinc.com

COMED
ATTN: LISA ARGAST
COMED PUBLIC RELOCATION
LINCOLN CENTER ONE
630-437-3381
lisa.argast@comed.com

COMCAST CABLE COMMUNICATIONS
ATTN: ROBERT SCHULTER
688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
224-229-5861
bob_schulter@cable.comcast.com

LEGEND

ALL UTILITY INFORMATION HEREON IS DEPICTED TO QUALITY LEVEL "B" (OL-B) UNLESS OTHERWISE NOTED. OL-B INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO IDENTIFY THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. OL-B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO PLAN DOCUMENTS.

SIZE INFORMATION SHOWN HEREON IS TAKEN FROM AVAILABLE UTILITY RECORDS.

ABBREVIATIONS:

(OL-C)	DEPICTED ACCORDING TO RECORD INFORMATION AND EXISTING ASSOCIATED UTILITY STRUCTURES. NO ELECTRONIC INFORMATION WAS OBTAINED.
(OL-D)	DEPICTED ACCORDING TO RECORD INFORMATION. NO ELECTRONIC INFORMATION WAS OBTAINED.
(DATFI)	DEPICTED ACCORDING TO FIELD INSPECTION
(FO)	FIBER OPTIC
(AATUR)	ABANDONED ACCORDING TO UTILITY RECORDS
(AATFI)	ABANDONED ACCORDING TO FIELD INSPECTION
(EATFI)	EMPTY ACCORDING TO FIELD INSPECTION
EOI	END OF ELECTRONIC DESIGNATING INFORMATION
EORI	END OF UTILITY RECORD INFORMATION
(NAC)	NO ASSOCIATED CABLE FOUND FROM UTILITY STRUCTURE
(NAP)	NO ASSOCIATED PIPING FOUND FROM UTILITY STRUCTURE
E——	UTILITY ENDPOINT

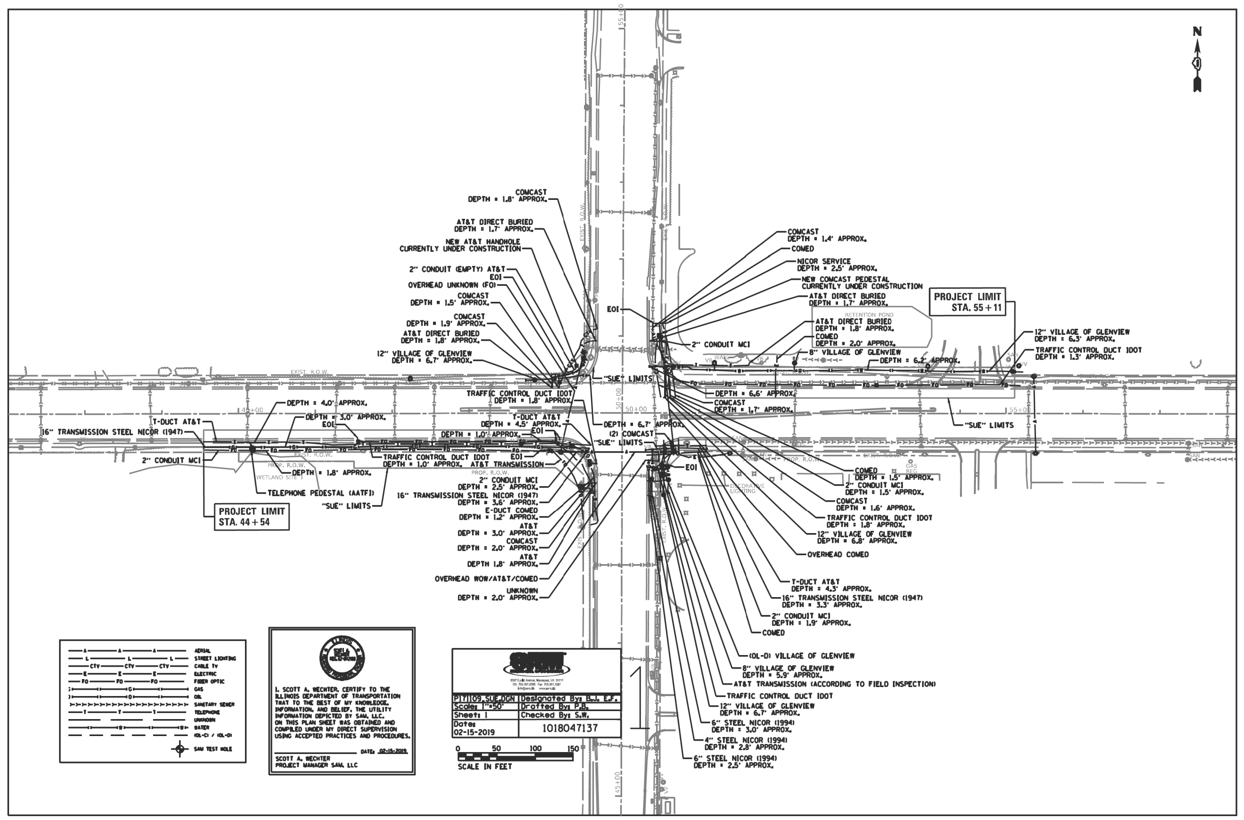
UNLESS OTHERWISE NOTED, UTILITY LINE LIMITS DEPICTED REPRESENT FIELD DESIGNATING LIMITS AND NOT ENDPOINTS OF UTILITIES.

UTILITY INFORMATION LABELED "OL-C" OR "OL-D" IS DERIVED FROM FURNISHED RECORDS. SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE. SAM, LLC. EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF UTILITY INFORMATION DEPICTED ACCORDING TO RECORDS.

ELECTRONIC DEPTH READINGS WERE TAKEN DIRECTLY FROM ELECTRONIC DESIGNATING INSTRUMENTS AND HAVE NOT BEEN VERIFIED BY ANY OTHER MEANS. EQUIPMENT MANUFACTURERS WILL NOT GUARANTEE AND ACCURACY FOR THIS DATA . THEREFORE, THE DEPTH READINGS ARE NOT TO BE CONSIDERED SUITABLE FOR DESIGN DECISIONS. SAM, LLC. DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF RELIABILITY OF ANY ELECTRONIC DEPTH READINGS. FIELD INVESTIGATION COMPLETED ON 01-24-19.

Line	Description
—— A —— A —— A ——	AERIAL
— L —— L —— L —	STREET LIGHTING
—— CTV —— CTV —— CTV ——	CABLE TV
—— E —— E —— E ——	ELECTRIC
—— FO —— FO —— FO ——	FIBER OPTIC
——┤├—— G ——┤├——	GAS
——┤├—— O ——┤├——	OIL
->->->->->->->->-	SANITARY SEWER
—— T —— T ——	TELEPHONE
—— —— —— ——	UNKNOWN
——┤├—— W ——┤├——	WATER
— — — — — —	(OL-C) / (OL-D)
⌖	SAM TEST HOLE

N



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	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING SURVEY
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	37
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

N

PROJECT LIMIT
STA. 55 + 11

PROJECT LIMIT
STA. 44 + 54

COMCAST
DEPTH = 1.8' APPROX.
AT&T DIRECT BURIED
DEPTH = 1.7' APPROX.
NEW AT&T HANDHOLE
CURRENTLY UNDER CONSTRUCTION
2" CONDUIT (EMPTY) AT&T
EOI
OVERHEAD UNKNOWN (FO)
COMCAST
DEPTH = 1.5' APPROX.
COMCAST
DEPTH = 1.9' APPROX.
AT&T DIRECT BURIED
DEPTH = 1.8' APPROX.
12" VILLAGE OF GLENVIEW
DEPTH = 6.7' APPROX.
EXIST. R.O.W.
"SUE" LIMITS
TRAFFIC CONTROL DUCT IDOT
DEPTH = 1.8' APPROX.
DEPTH = 4.0' APPROX.
DEPTH = 3.0' APPROX.
EOI
T-DUCT AT&T
16" TRANSMISSION STEEL NICOR (1947)
2" CONDUIT MCI
PROP. R.O.W.
WETLAND SITE 1
DEPTH = 1.8' APPROX.
TELEPHONE PEDESTAL (AATFI)
"SUE" LIMITS
T-DUCT AT&T
DEPTH = 4.5' APPROX.
EOI
DEPTH = 1.0' APPROX.
TRAFFIC CONTROL DUCT IDOT
DEPTH = 1.0' APPROX.
AT&T TRANSMISSION
PROP. R.O.W.
2" CONDUIT MCI
DEPTH = 2.5' APPROX.
16" TRANSMISSION STEEL NICOR (1947)
DEPTH = 3.6' APPROX.
E-DUCT COMED
DEPTH = 1.2' APPROX.
AT&T
DEPTH = 3.0' APPROX.
COMCAST
DEPTH = 2.0' APPROX.
AT&T
DEPTH 1.8' APPROX.
OVERHEAD WOW/AT&T/COMED
UNKNOWN
DEPTH = 2.0' APPROX.
EXIST. R.O.W.
EOI
2" CONDUIT MCI
"SUE" LIMITS
DEPTH = 6.7' APPROX.
(2) COMCAST
COMCAST
DEPTH = 1.4' APPROX.
COMED
NICOR SERVICE
DEPTH = 2.5' APPROX.
NEW COMCAST PEDESTAL
CURRENTLY UNDER CONSTRUCTION
AT&T DIRECT BURIED
DEPTH = 1.7' APPROX.
RETENTION POND
AT&T DIRECT BURIED
DEPTH = 1.8' APPROX.
COMED
DEPTH = 2.0' APPROX.
8" VILLAGE OF GLENVIEW
DEPTH = 6.2' APPROX.
DEPTH = 6.6' APPROX.
COMCAST
DEPTH = 1.7' APPROX.
"SUE" LIMITS
12" VILLAGE OF GLENVIEW
DEPTH = 6.3' APPROX.
TRAFFIC CONTROL DUCT IDOT
DEPTH = 1.3' APPROX.
DECORATIVE
LIGHTING
COMED
DEPTH = 1.5' APPROX.
2" CONDUIT MCI
DEPTH = 1.5' APPROX.
COMCAST
DEPTH = 1.6' APPROX.
TRAFFIC CONTROL DUCT IDOT
DEPTH = 1.8' APPROX.
12" VILLAGE OF GLENVIEW
DEPTH = 6.8' APPROX.
OVERHEAD COMED
T-DUCT AT&T
DEPTH = 4.3' APPROX.
16" TRANSMISSION STEEL NICOR (1947)
DEPTH = 3.3' APPROX.
2" CONDUIT MCI
DEPTH = 1.9' APPROX.
COMED
(QL-D) VILLAGE OF GLENVIEW
8" VILLAGE OF GLENVIEW
DEPTH = 5.9' APPROX.
AT&T TRANSMISSION (ACCORDING TO FIELD INSPECTION)
TRAFFIC CONTROL DUCT IDOT
12" VILLAGE OF GLENVIEW
DEPTH = 6.7' APPROX.
6" STEEL NICOR (1994)
DEPTH = 3.0' APPROX.
4" STEEL NICOR (1994)
DEPTH = 2.8' APPROX.
6" STEEL NICOR (1994)
DEPTH = 2.5' APPROX.
45+00
50+00
55+00
0 50 100 150
SCALE IN FEET

AERIAL
STREET LIGHTING
CABLE TV
ELECTRIC
FIBER OPTIC
GAS
OIL
SANITARY SEWER
TELEPHONE
UNKNOWN
WATER
(QL-C) / (QL-D)
SAM TEST HOLE

ILLINOIS
SCOTT A. WECHTER
REG. 62-062188
REGISTERED PROFESSIONAL ENGINEER

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 02-15-2019

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC

SAM
SURVEYING-AERIAL MAPPING-ENGINEERING
8397 Euclid Avenue, Manassas, VA 20111
Ofc 703.361.6005 Fax 703.361.7587
info@sam.biz www.sam.biz

P171109_SUE.DGN	Designated By: B.J. E.F.
Scale: 1"=50'	Drafted By: P.B.
Sheet: 1	Checked By: S.W.
Date: 02-15-2019	1018047137

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/7/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING SURVEY
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	38
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

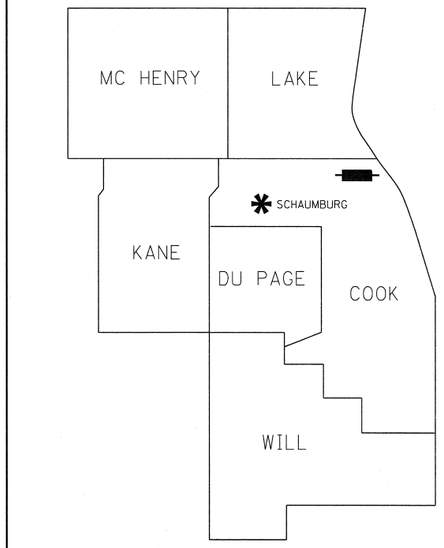
MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\P171109\CADData\Design\P171109-sht-SUE-detail.dgn

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0M40001	FLORENCE S. HART, AS TRUSTEE UNDER A TRUST INSTRUMENT KNOWN AS THE FLORENCE S. HART 1992 TRUST	2 & 3	
0M40002	PLAZA DEL PRADO IL, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	2 & 3	
0M40003	NP GLENBROOK, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	2	
0M40004	WIRKUS PARTNERS, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	2	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

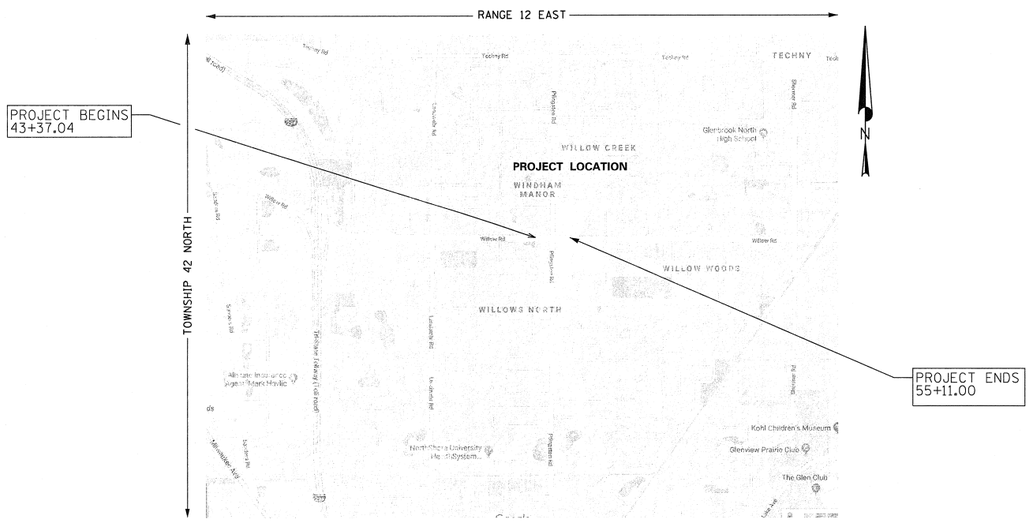
PLAT OF HIGHWAYS

ROUTE: WILLOW ROAD
SECTION:
COUNTY: COOK COUNTY
LIMITS: AT PFINGSTEN ROAD
JOB NO.: R-90-003-18



DISTRICT HEADQUARTERS: – ✱
LOCATION OF SECTION INDICATED THUS: –

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



(NOT TO SCALE)

LOCATION MAP

LENGTH = 1174 FT. = 0.22 MILE

IDOT USE ONLY
RECEIVED
APR 19 2018
PLATS & LEGALS

H:\E\E622\E622J0 R-91-079-00 US Route 41 at Deerpath Rd, Lake Forest, IL\S\Dgn\Sheets\Sheet1.dgn

PART OF THE NE 1/4 OF SECTION 20 AND PART OF THE NW 1/4 OF SECTION 21, TWP. 42 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

LEGEND

SECTION CORNER

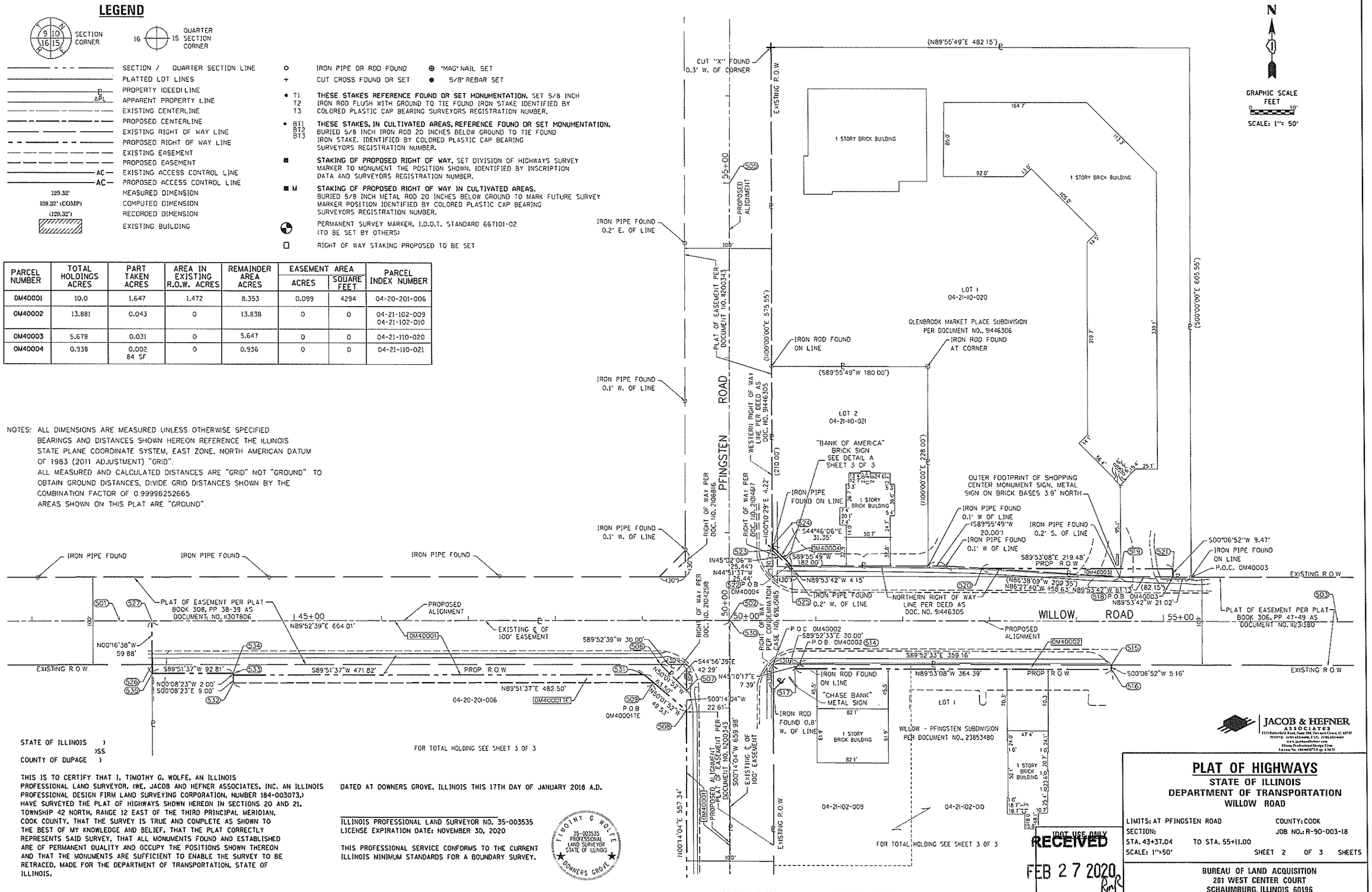
QUARTER SECTION CORNER

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

- IRON PIPE OR ROD FOUND
- "MAG" NAIL SET
- CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1, T2, T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1, BT2, BT3 **THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0M40001	10.0	1.647	1.472	8.353	0.099	4294	04-20-201-006
0M40002	13.881	0.043	0	13.838	0	0	04-21-102-009 04-21-102-010
0M40003	5.678	0.031	0	5.647	0	0	04-21-110-020
0M40004	0.938	0.002 84 SF	0	0.936	0	0	04-21-110-021

NOTES: ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996252665.
AREAS SHOWN ON THIS PLAT ARE "GROUND".



STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT I, TIMOTHY G. WOLFE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, JACOB AND HEFNER ASSOCIATES, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-003073,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 20 AND 21, TOWNSHIP 42 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT DOWNERS GROVE, ILLINOIS THIS 17TH DAY OF JANUARY 2018 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003535
LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

TIMOTHY G WOLFE 35-003535 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS DOWNERS GROVE

JACOB & HEFNER ASSOCIATES

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WILLOW ROAD

LIMITS: AT PFINGSTEN ROAD — COUNTY: COOK
SECTION: — JOB NO.: R-90-003-18
STA. 43+37.04 TO STA. 55+11.00
SCALE: 1"=50' — SHEET 2 OF 3 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: / / REVISION MADE BY:

IDOT USE ONLY
RECEIVED
FEB 27 2020
PLATS & LEGALS

CONTRACT 60Y23 TOTAL SHEETS: 80 SHEET NO. 40

PART OF THE NE 1/4 OF SECTION 20 AND PART OF THE NW 1/4 OF SECTION 21, TWP. 42 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

LEGEND

SECTION CORNER

QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
EXISTING BUILDING

IRON PIPE OR ROD FOUND
'MAG' NAIL SET
CUT CROSS FOUND OR SET
5/8" REBAR SET

• T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

• BT1 BT2 BT3 **THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

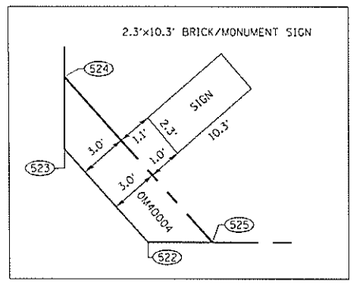
■ **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET

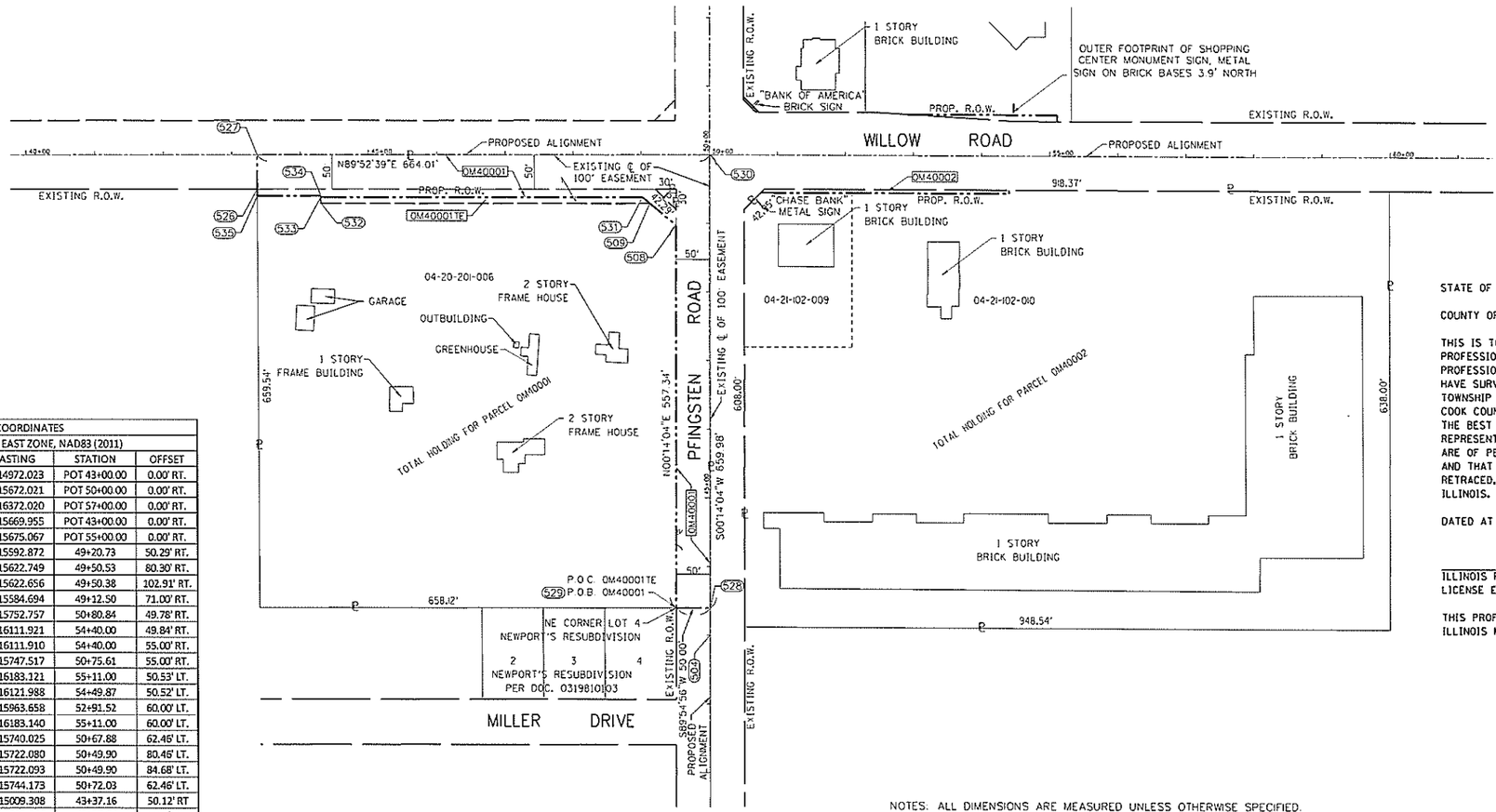
TOTAL HOLDING DIAGRAM - PARCELS 0M40001 AND 0M40002

DETAIL A
NOT TO SCALE
"BANK OF AMERICA"
BRICK/MONUMENT SIGN



N

GRAPHIC SCALE
FEET
0 100'
SCALE: 1"= 100'



PROJECT COORDINATES				
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)				
POINT NUMBER	NORTHING	EASTING	STATION	OFFSET
501	1981485.031	1114972.023	POT 43+00.00	0.00' RT.
502	1981486.737	1115672.021	POT 50+00.00	0.00' RT.
503	1981485.340	1116372.020	POT 57+00.00	0.00' RT.
504	1980786.740	1115669.955	POT 43+00.00	0.00' RT.
505	1981986.728	1115675.067	POT 55+00.00	0.00' RT.
506	1981436.253	1115592.872	49+20.73	50.29' RT.
507	1981406.318	1115622.749	49+50.53	80.30' RT.
508	1981383.705	1115622.656	49+50.38	102.91' RT.
509	1981415.524	1115584.694	49+12.50	71.00' RT.
514	1981436.796	1115752.757	50+80.84	49.78' RT.
515	1981436.018	1116111.921	54+40.00	49.84' RT.
516	1981430.860	1116111.910	54+40.00	55.00' RT.
517	1981431.587	1115747.517	50+75.61	55.00' RT.
518	1981536.252	1116183.121	55+11.00	50.53' LT.
519	1981536.364	1116121.988	54+49.87	50.52' LT.
520	1981546.155	1115963.658	52+91.52	60.00' LT.
521	1981545.717	1116183.140	55+11.00	60.00' LT.
522	1981549.063	1115740.025	50+67.88	62.46' LT.
523	1981567.096	1115722.080	50+49.90	80.46' LT.
524	1981571.315	1115722.093	50+49.90	84.68' LT.
525	1981549.056	1115744.173	50+72.03	62.46' LT.
526	1981435.005	1115009.308	43+37.16	50.12' RT
527	1981485.004	1115009.066	43+37.04	0.12' RT.
528	1980826.446	1115670.377	43+39.71	0.31' RT.
529	1980826.372	1115620.377	43+39.49	49.70' LT.
530	1981486.425	1115673.077	50+01.06	0.31' RT.
531	1981424.498	1115573.988	49+01.82	62.00' RT.
532	1981414.348	1115102.196	44+30.00	71.00' RT.
533	1981423.348	1115102.174	44+30.00	62.00' RT.
534	1981425.348	1115102.169	44+30.00	60.00' RT.
535	1981425.122	1115009.356	43+37.19	60.00' RT.

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT I, TIMOTHY G. WOLFE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, JACOB AND HEFNER ASSOCIATES, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-003073.) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 20 AND 21, TOWNSHIP 42 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT DUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT DOWNERS GROVE, ILLINOIS THIS 17TH DAY OF JANUARY 2018 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003535
LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

TIMOTHY G. WOLFE 35-003535 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS DOWNERS GROVE

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www.jacobandhefner.com
Illinois Professional Design Firm
License No. 184-003073 Exp. 4/30/21

NOTES: ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996252665.
AREAS SHOWN ON THIS PLAT ARE "GROUND".

REVISION DATE: / / REVISION MADE BY:

IDOT USE ONLY
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FEB 27 2020
PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WILLOW ROAD

LIMITS: AT PFINGSTEN ROAD COUNTY: COOK
SECTION: JOB NO.: R-90-003-18
STA. 43+37.04 TO STA. 55+11.00
SCALE: 1"=100' SHEET 3 OF 3 SHEETS

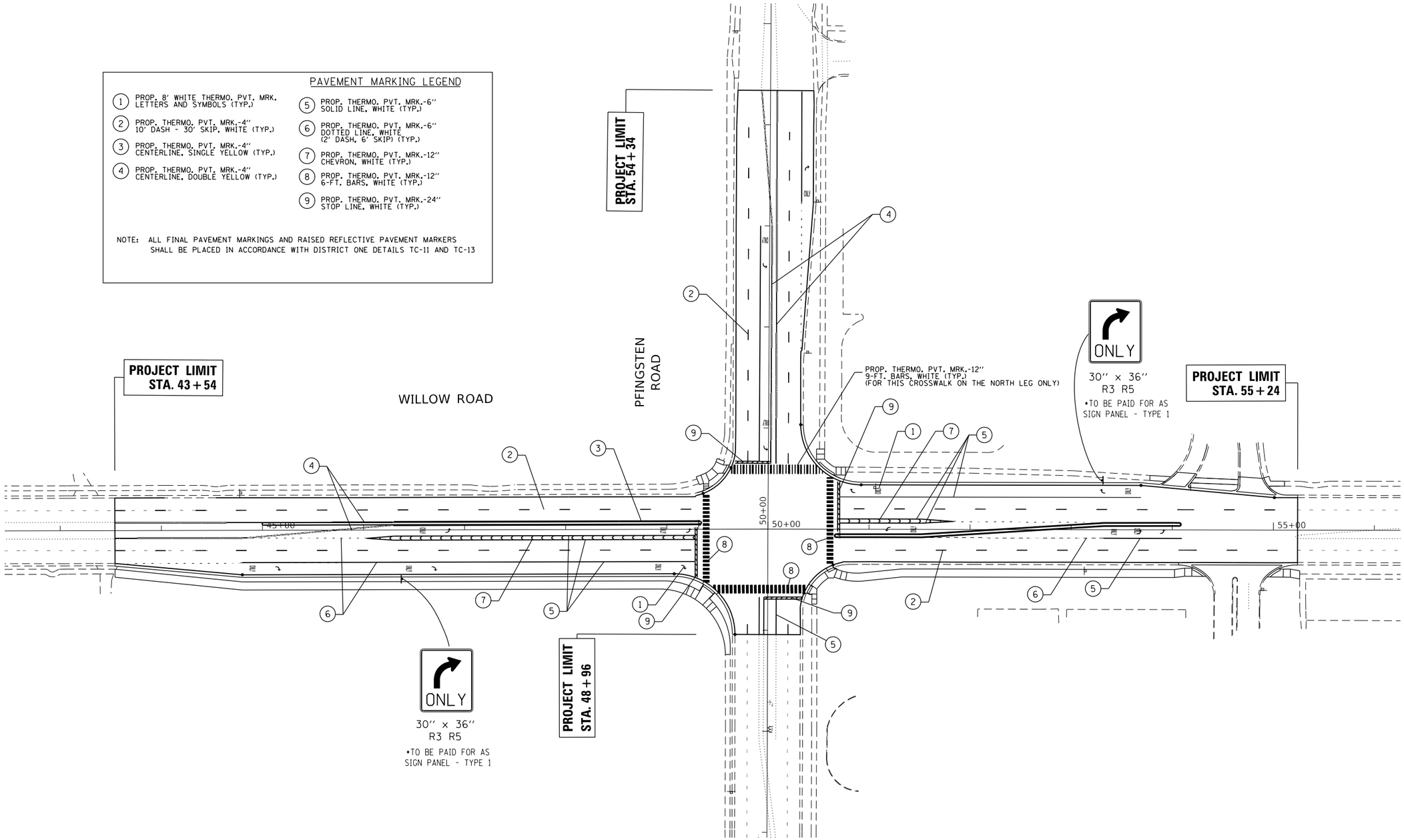
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

CONTRACT 60Y23 TOTAL SHEETS: 80 SHEET NO. 41

PAVEMENT MARKING LEGEND

1. PROP. 8' WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)
2. PROP. THERMO. PVT. MRK.-4" 10' DASH - 30' SKIP, WHITE (TYP.)
3. PROP. THERMO. PVT. MRK.-4" CENTERLINE, SINGLE YELLOW (TYP.)
4. PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)
5. PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
6. PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (2' DASH, 6' SKIP) (TYP.)
7. PROP. THERMO. PVT. MRK.-12" CHEVRON, WHITE (TYP.)
8. PROP. THERMO. PVT. MRK.-12" 6-FT. BARS, WHITE (TYP.)
9. PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)

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



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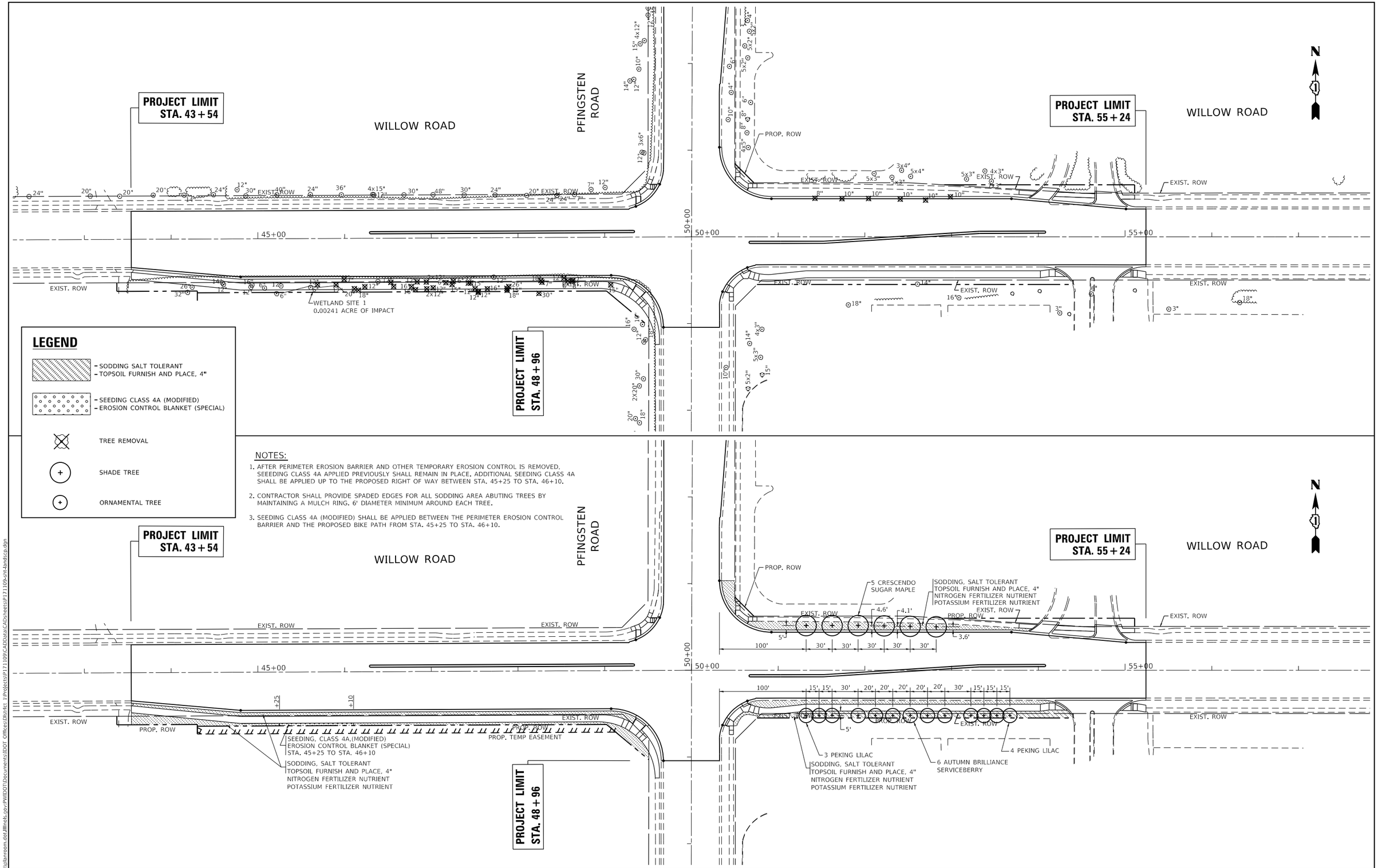
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/5/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	42
		CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			



LEGEND

- SODDING SALT TOLERANT
- TOPSOIL FURNISH AND PLACE, 4"
- SEEDING CLASS 4A (MODIFIED)
- EROSION CONTROL BLANKET (SPECIAL)
- TREE REMOVAL
- SHADE TREE
- ORNAMENTAL TREE

NOTES:

1. AFTER PERIMETER EROSION BARRIER AND OTHER TEMPORARY EROSION CONTROL IS REMOVED, SEEEDING CLASS 4A APPLIED PREVIOUSLY SHALL REMAIN IN PLACE. ADDITIONAL SEEDING CLASS 4A SHALL BE APPLIED UP TO THE PROPOSED RIGHT OF WAY BETWEEN STA. 45+25 TO STA. 46+10.
2. CONTRACTOR SHALL PROVIDE SPADED EDGES FOR ALL SODDING AREA ABUTING TREES BY MAINTAINING A MULCH RING. 6' DIAMETER MINIMUM AROUND EACH TREE.
3. SEEDING CLASS 4A (MODIFIED) SHALL BE APPLIED BETWEEN THE PERIMETER EROSION CONTROL BARRIER AND THE PROPOSED BIKE PATH FROM STA. 45+25 TO STA. 46+10.

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PLOT DATE = 5/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N (14)	COOK	80	43
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

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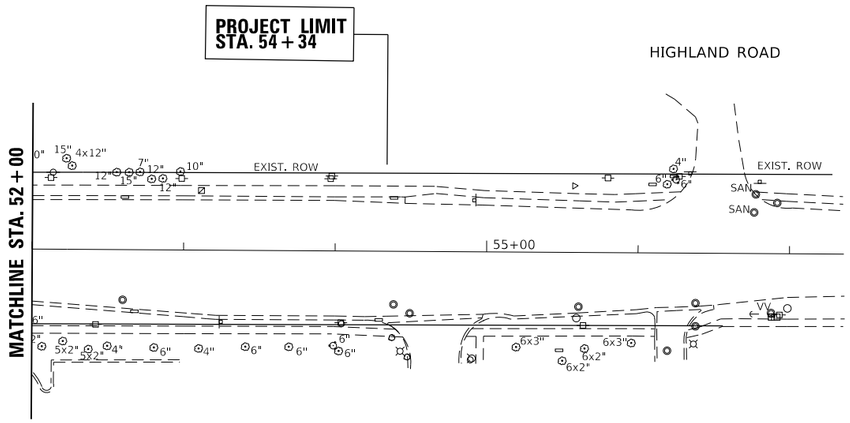
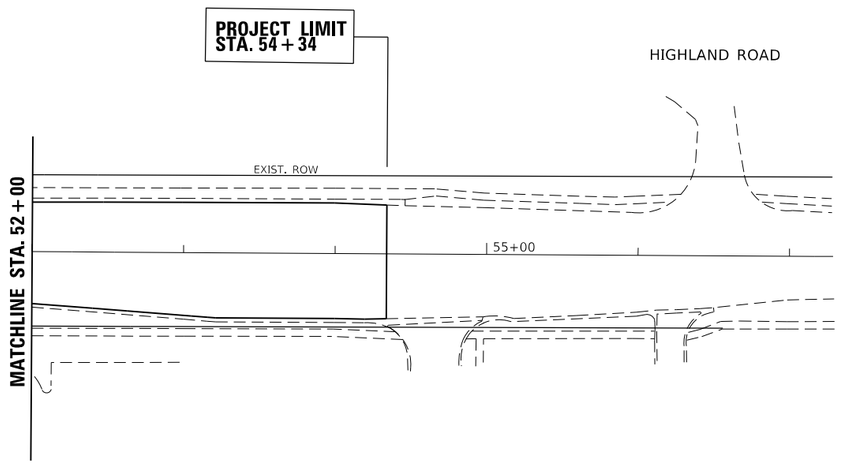


NOTE:
FOR INFORMATION ONLY. THE PURPOSE OF THIS SHEET IS TO SHOW CLEARLY THAT THERE IS NO PROPOSED LANDSCAPING ON THE NORTH LIMIT OF PFINGSTEN ROAD.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	44
		CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RR	RR
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	P	P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	P RB	P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

TS SHT NO. 1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	45
	TS-05	CONTRACT NO. 60Y23		
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.

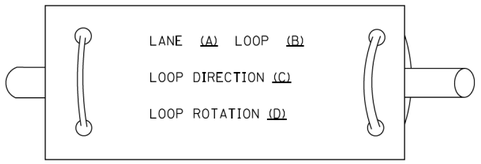
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

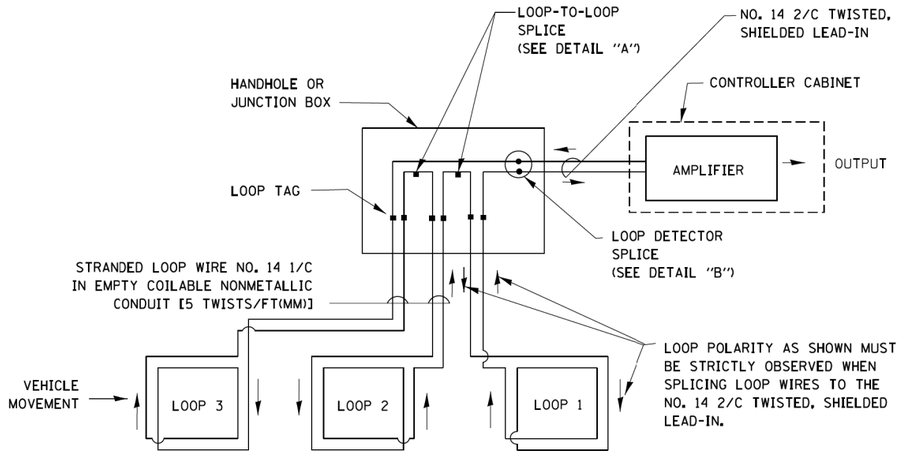


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

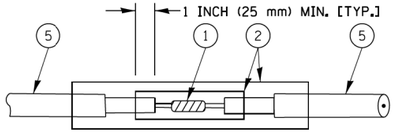
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

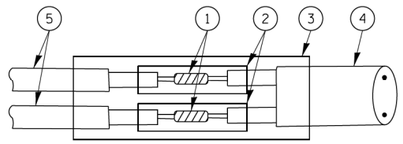


DETECTOR LOOP WIRING SCHEMATIC

- 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.

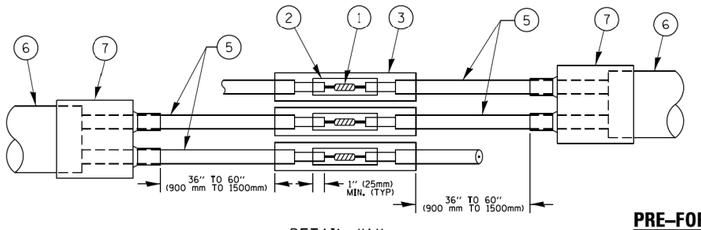


DETAIL "A"
LOOP-TO-LOOP SPLICE



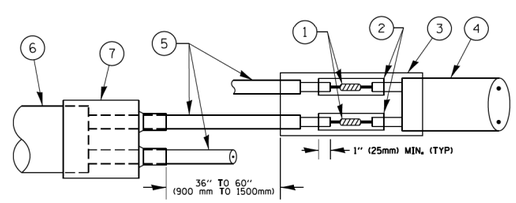
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

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

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

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

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

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

TS SHT NO. 2

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		DRAWN - BCK	REVISED -			305	1719-N(14)	COOK	80	46
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

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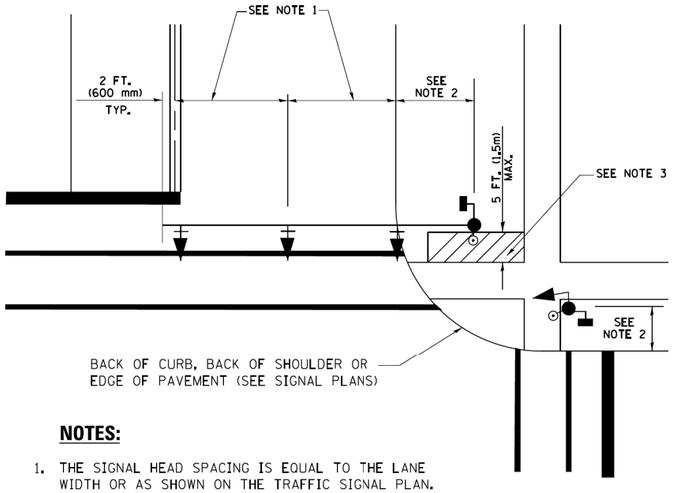
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

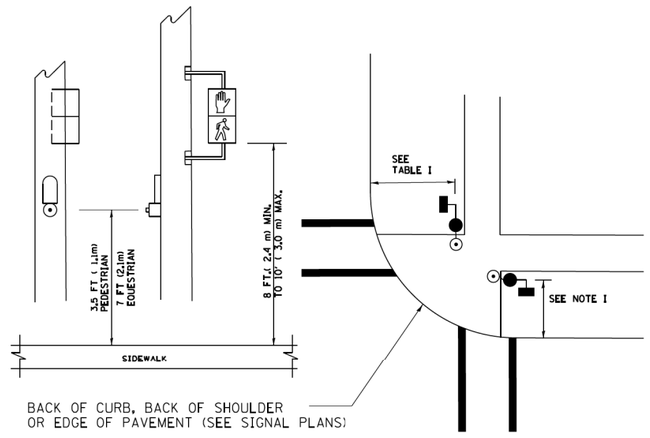
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

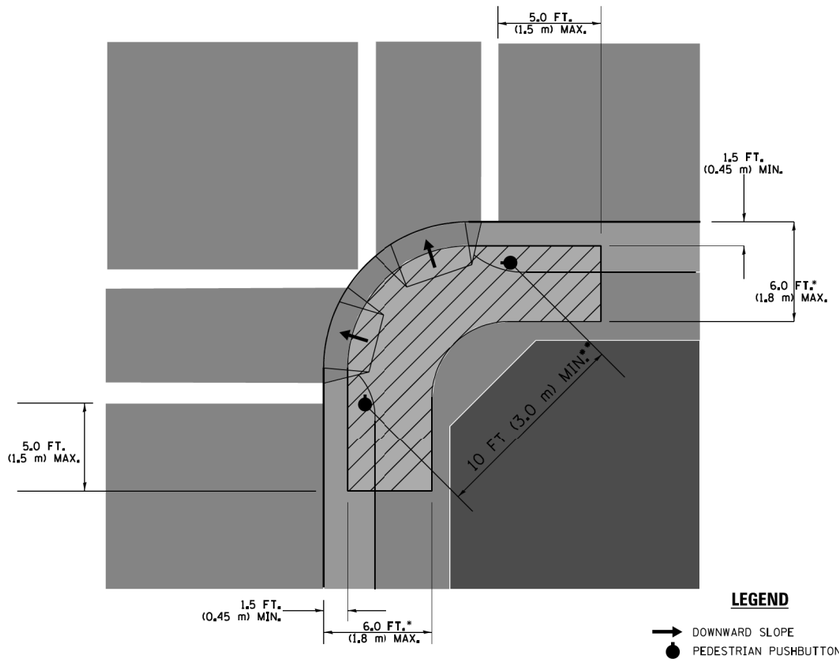
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	47
	TS-05	CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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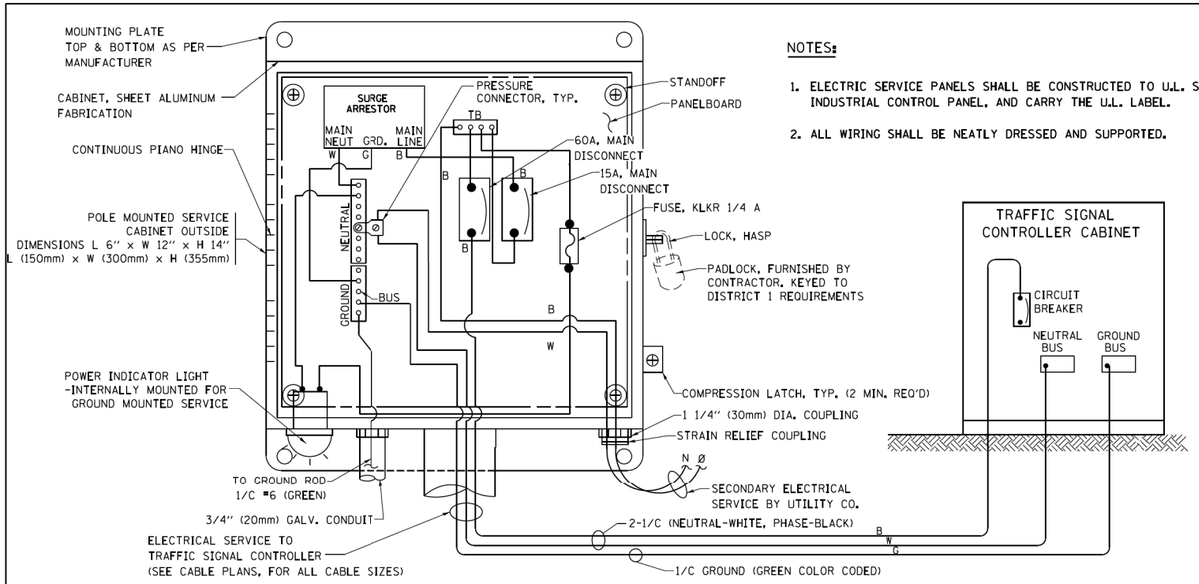
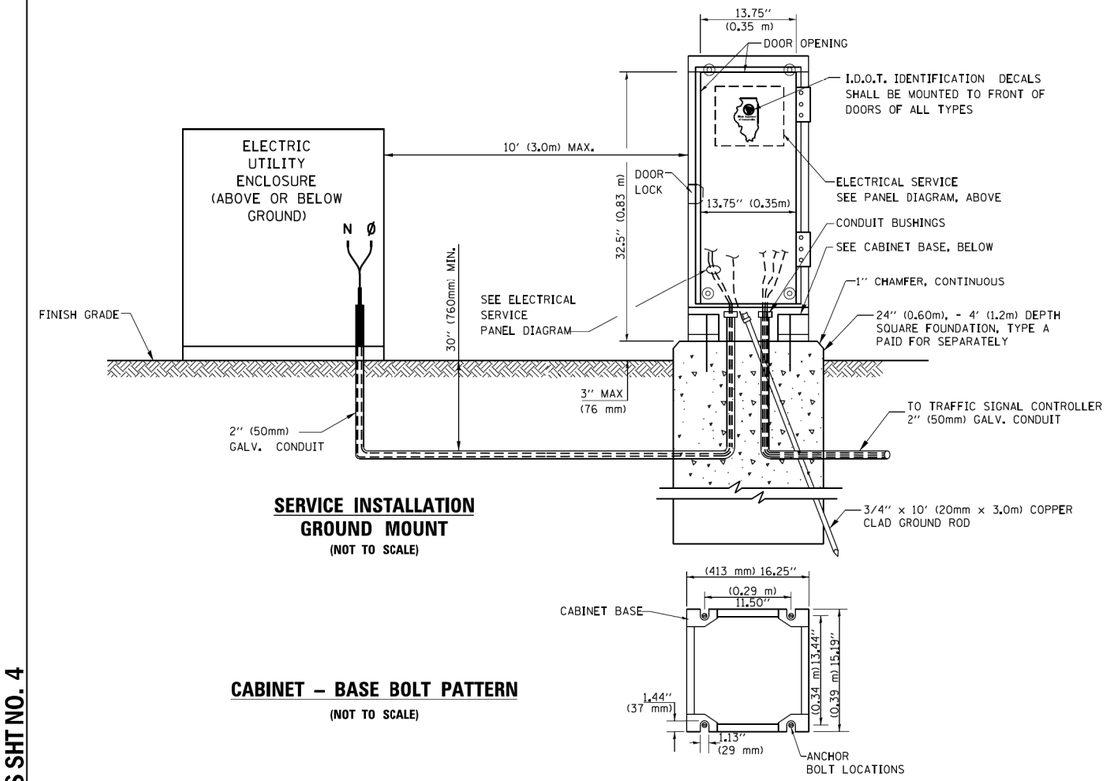


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)

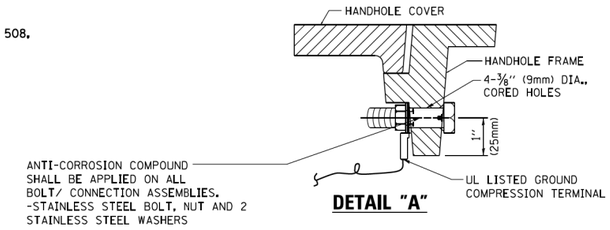
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

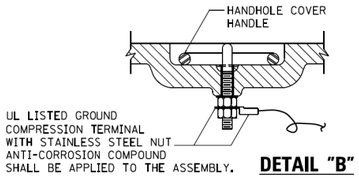


SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

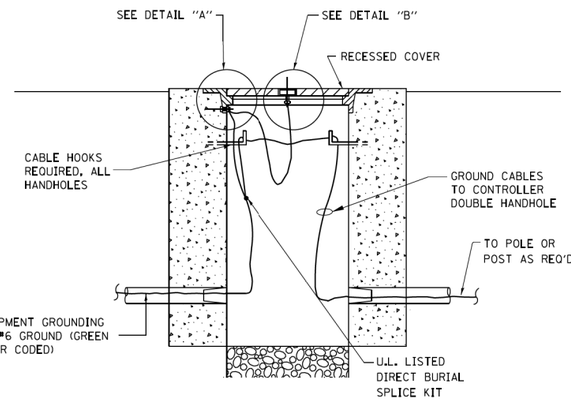
CABINET – BASE BOLT PATTERN
(NOT TO SCALE)



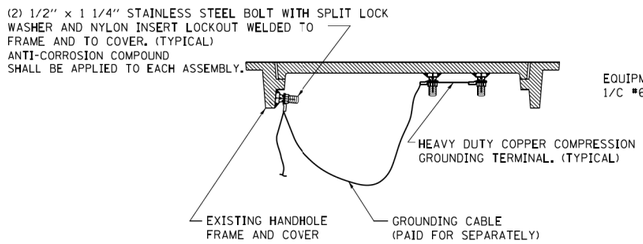
DETAIL "A"



DETAIL "B"



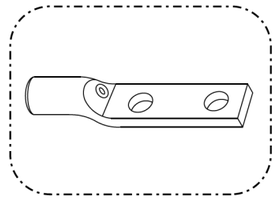
HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)

NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

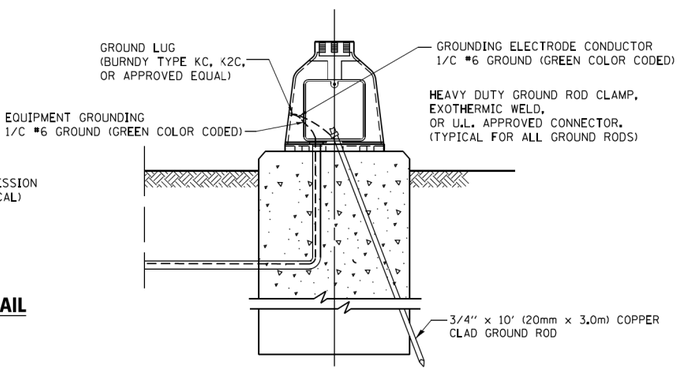


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST–GROUNDING DETAIL
(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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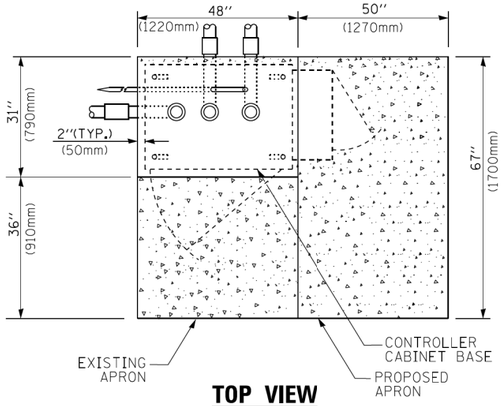
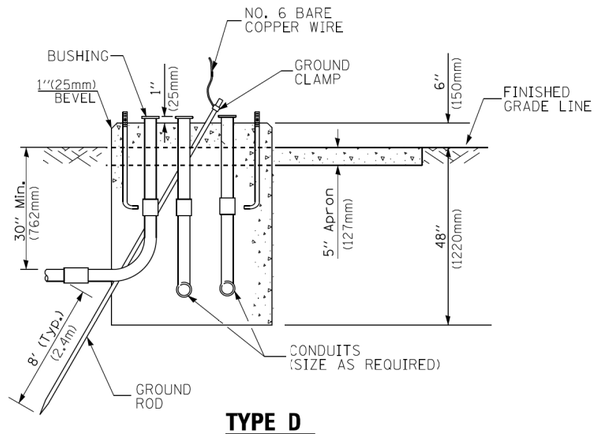
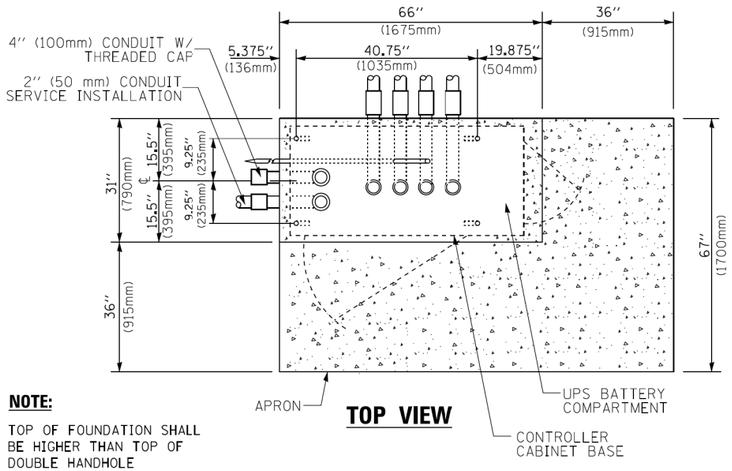
	TS-05	CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TOP VIEW



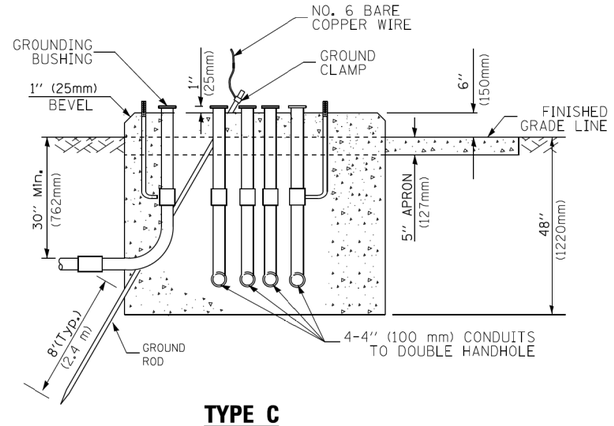
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



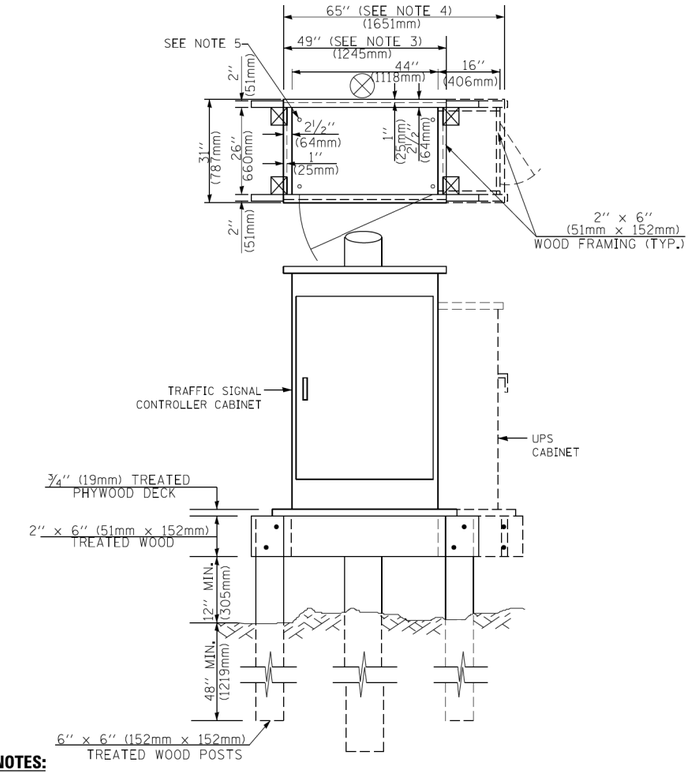
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	49
	TS-05	CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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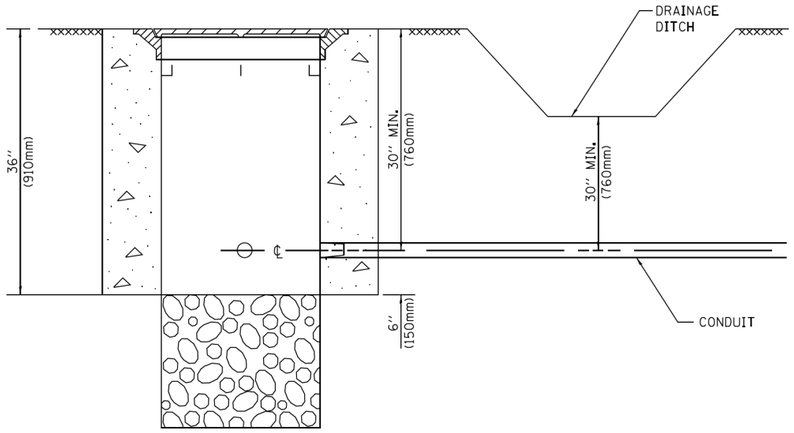
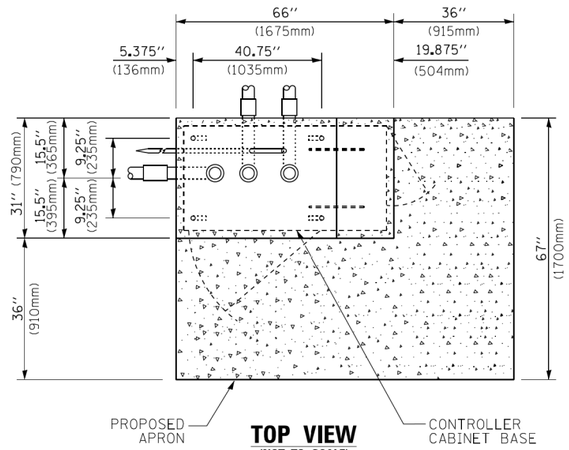


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

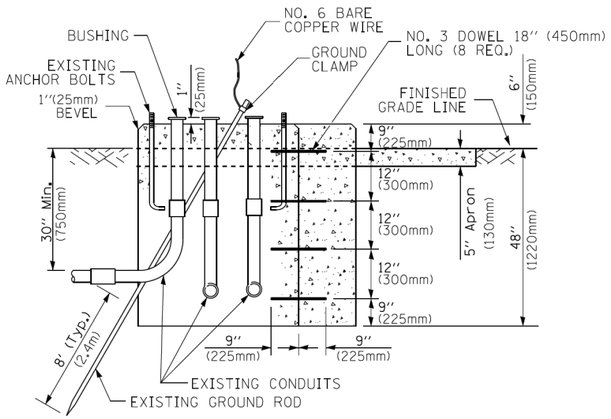
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



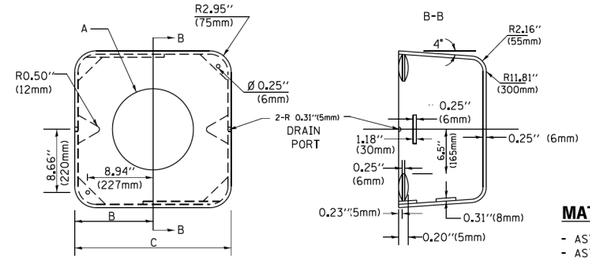
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

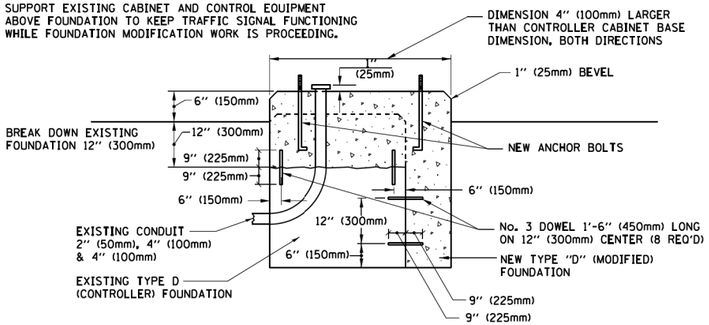
SHROUD

NOTES:

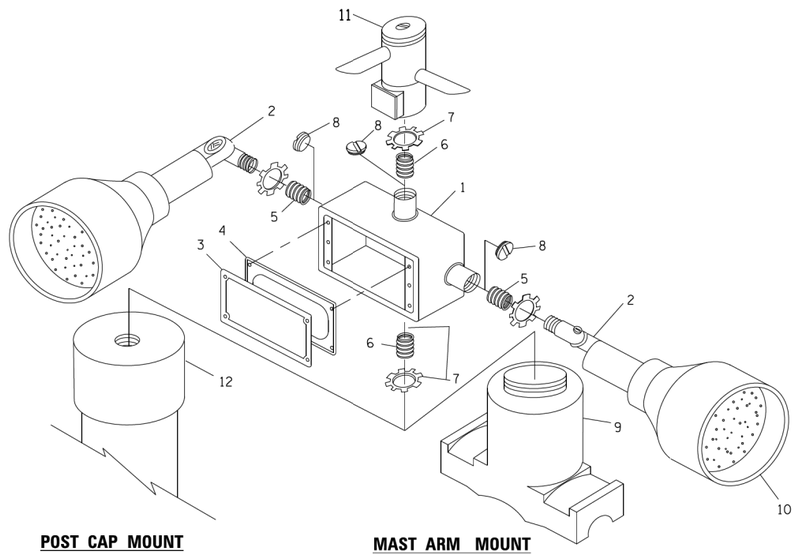
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



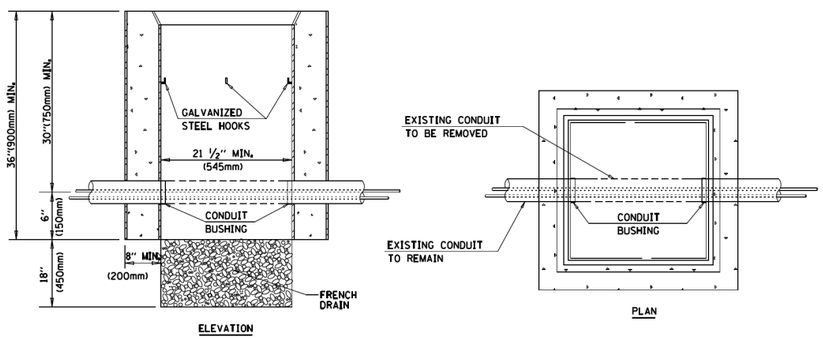
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

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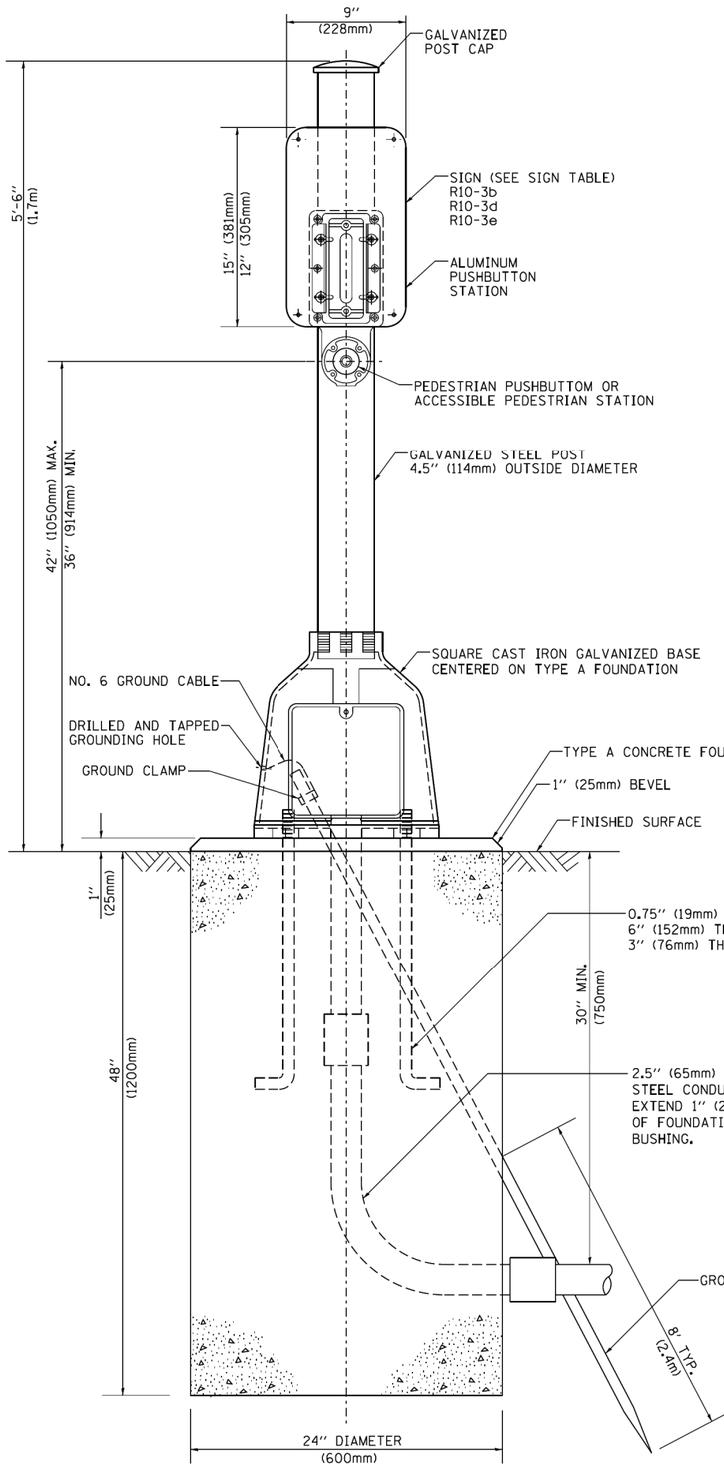
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

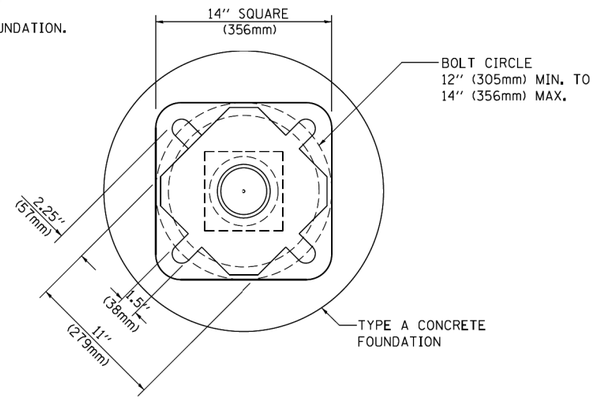
SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	50
	TS-05	CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



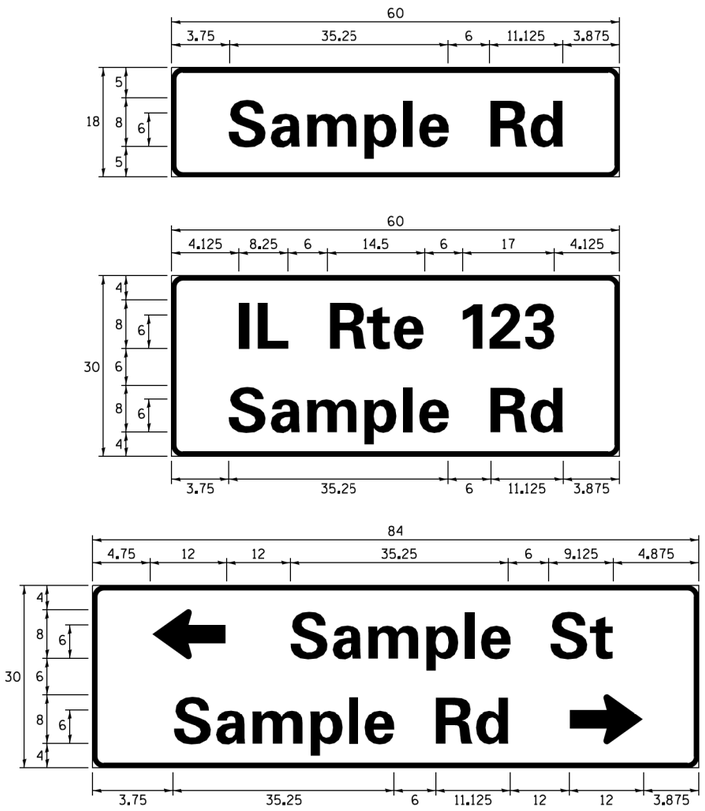
BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

TS SHT NO. 7

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - GND	REVISED -						305	1719-N(14)	COOK	80	51
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -							TS-05	CONTRACT NO. 60Y23		
	PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -		SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.

2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)

3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.

4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.

5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.

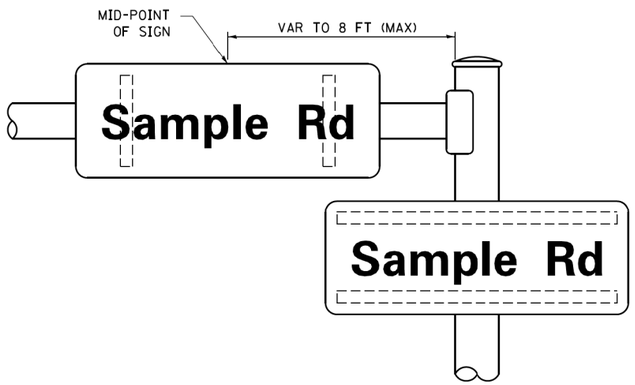
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

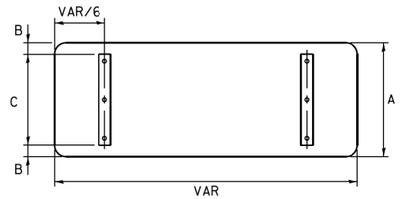
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

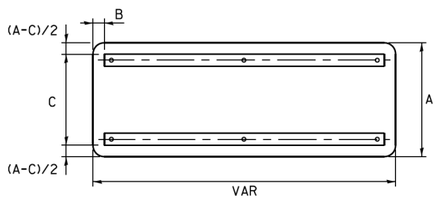
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT NO. 8

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Default	PLOT DATE = 7/31/2015	CHECKED - IP	REVISED -
		DATE - 10/01/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	52
	TS-02	CONTRACT NO. 60Y23		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PRO dgn: 7/31/2015 11:37:05 AM IP:svrdrivakosgn

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE, THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE

1 EACH UNINTERRUPTED POWER SUPPLY
4 EACH STEEL MAST ARM ASSEMBLY AND POST
8 EACH TRAFFIC SIGNAL POST
8 EACH 3-SECTION SIGNAL HEAD
8 EACH 5-SECTION SIGNAL HEAD
8 EACH PEDESTRIAN SIGNAL HEAD
4 EACH PEDESTRIAN PUSH-BUTTON
1 EACH SERVICE INSTALLATION
8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND DELIVERED TO THE STATE SPARE PART DEPARTMENT, AS COORDINATED WITH THE IDOT AREA SIGNAL ENGINEER

1 EACH CONTROLLER AND CABINET (COMPLETE)

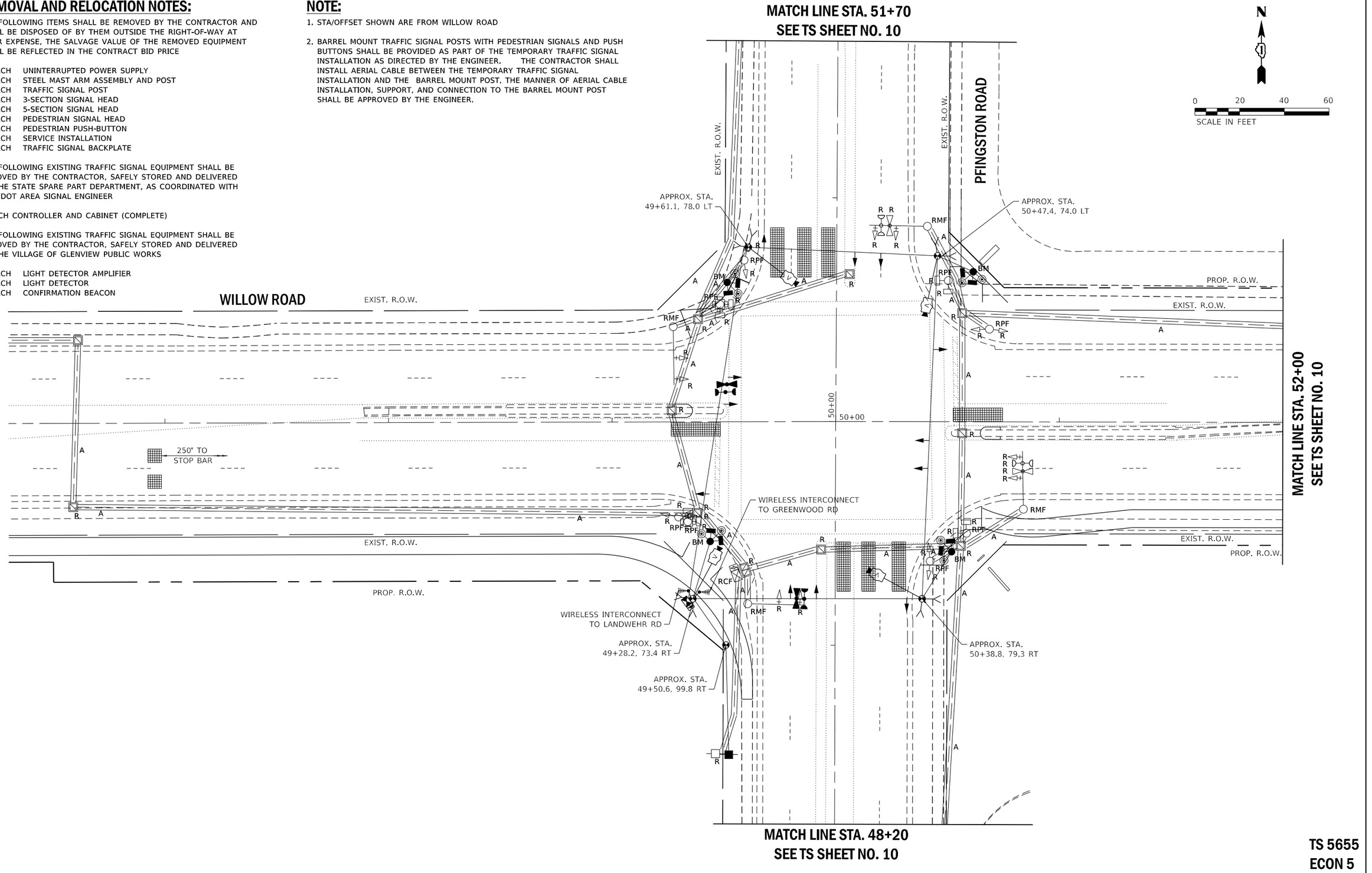
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND DELIVERED TO THE VILLAGE OF GLENVIEW PUBLIC WORKS

1 EACH LIGHT DETECTOR AMPLIFIER
2 EACH LIGHT DETECTOR
2 EACH CONFIRMATION BEACON

NOTE:

1. STA/OFFSET SHOWN ARE FROM WILLOW ROAD

2. BARREL MOUNT TRAFFIC SIGNAL POSTS WITH PEDESTRIAN SIGNALS AND PUSH BUTTONS SHALL BE PROVIDED AS PART OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INSTALL AERIAL CABLE BETWEEN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AND THE BARREL MOUNT POST. THE MANNER OF AERIAL CABLE INSTALLATION, SUPPORT, AND CONNECTION TO THE BARREL MOUNT POST SHALL BE APPROVED BY THE ENGINEER.



TS 5655
ECON 5

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		DRAWN - DWB	REVISED -
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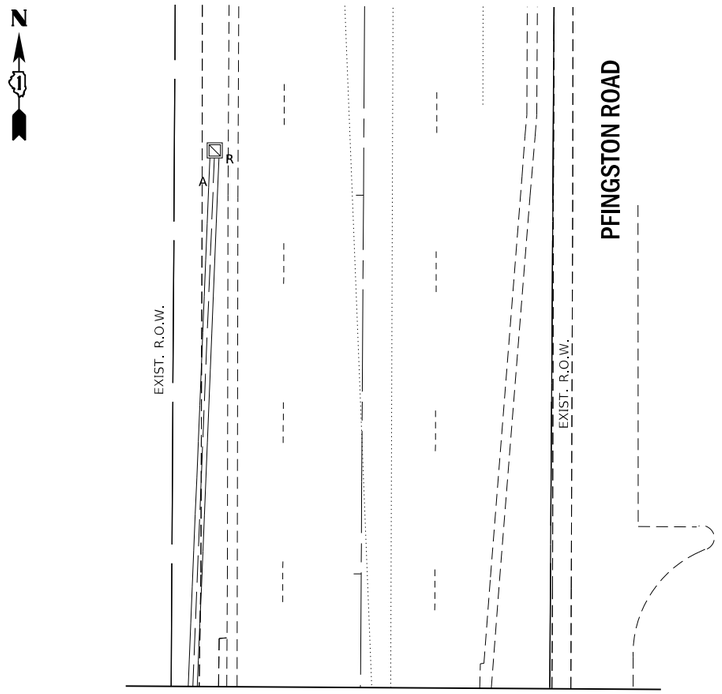
	PLOT DATE = 1/24/2020	DATE - 1/24/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 1 OF 2)
WILLOW ROAD AND PFINGSTON ROAD

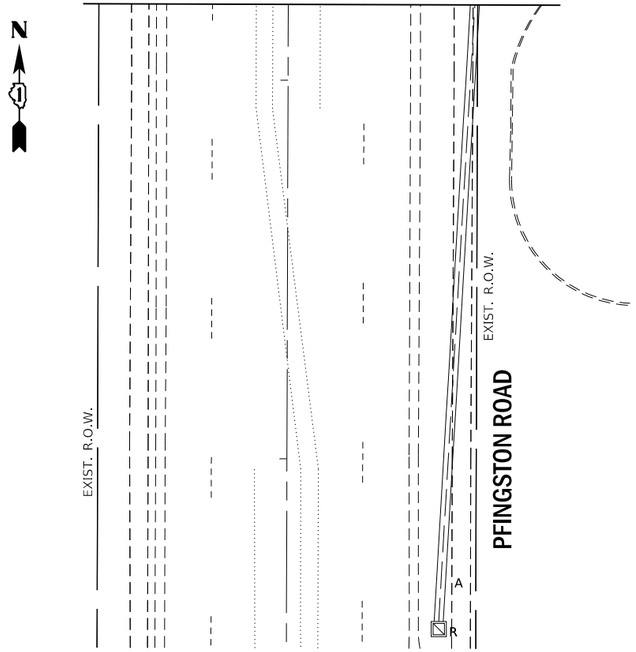
SCALE: SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	53
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

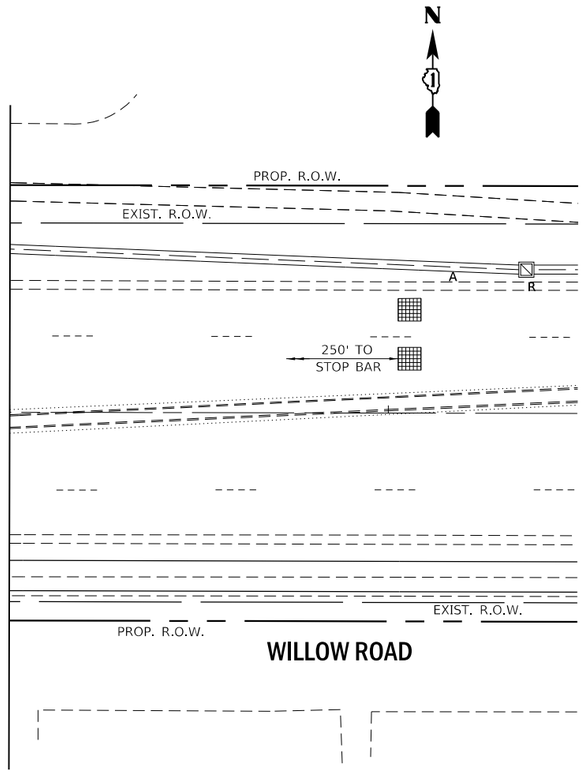


MATCH LINE STA. 51+70
SEE TS SHEET NO. 9

MATCH LINE STA. 48+20
SEE TS SHEET NO. 9



MATCH LINE STA. 52+00
SEE TS SHEET NO. 9



0 20 40 60
SCALE IN FEET

TS 5655
ECON 5

TS SHT NO. 10

FILE NAME: P171109-sht-ts-tempsignalplan-02.dgn	USER NAME = dbennett	DESIGNED - DWB	REVISED -
		DRAWN - DWB	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -
	PLOT DATE = 1/24/2020	DATE - 1/24/2020	REVISED -

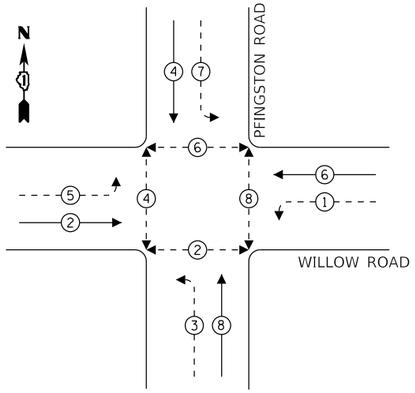
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 2 OF 2)
WILLOW ROAD AND PFINGSTON ROAD

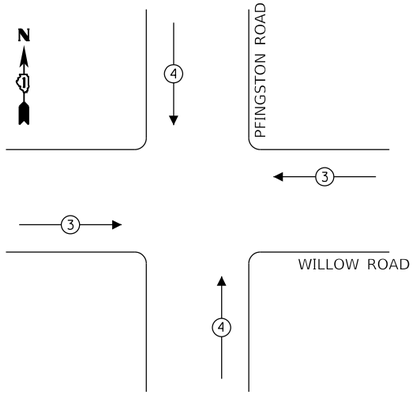
SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	54
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

TEMPORARY CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

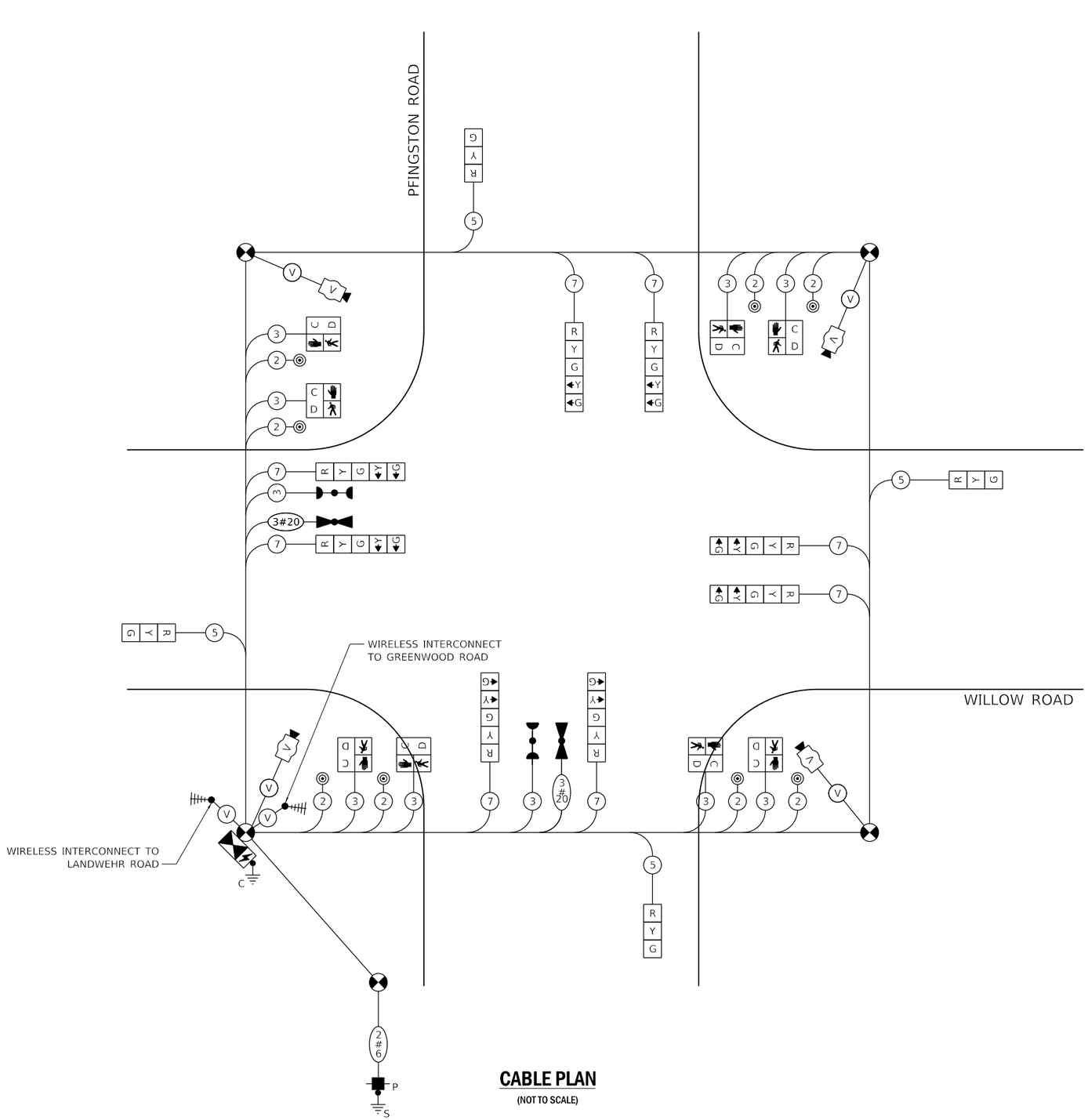
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
			TOTAL =	593.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: -
PHONE: -
COMPANY: COMED
ACCOUNT NUMBER: PROPOSED (METERED): 12631-03350
EXISTING (UNMETERED): 11831-41069



CABLE PLAN

(NOT TO SCALE)

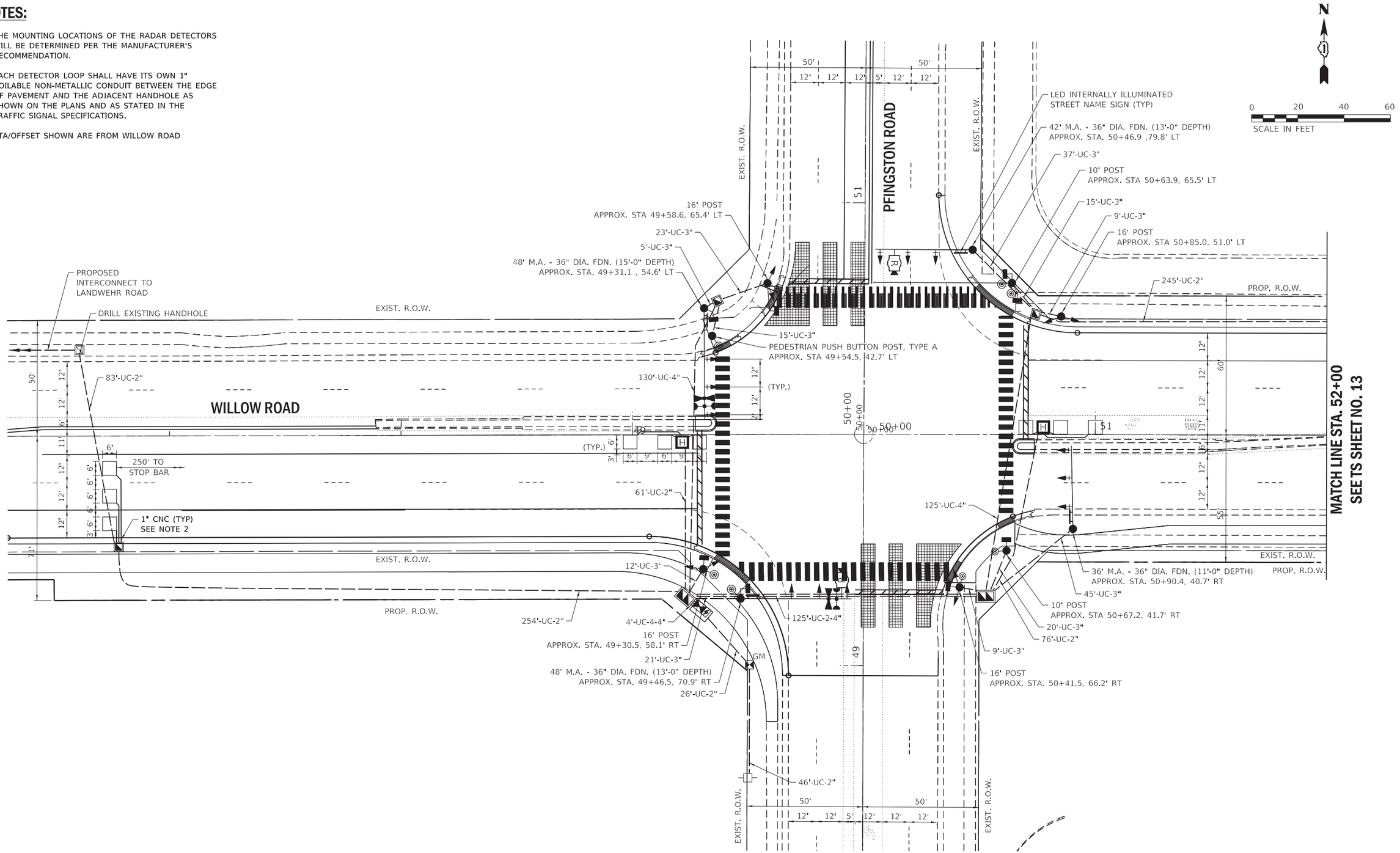
TS 5655
ECON 5

TS SHT NO. 11

FILE NAME: P171109-sht-ts-tempcableplan.dgn	USER NAME = dbennett	DESIGNED - DWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WILLOW ROAD AND PFINGSTON ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DWB	REVISED -			305	1719-N(14)	COOK	80	55
	PLOT SCALE = 2.0000 ' / in.	CHECKED - BKS	REVISED -					CONTRACT NO. 60Y23		
	PLOT DATE = 1/24/2020	DATE - 1/24/2020	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

NOTES:

1. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATION.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. STA/OFFSET SHOWN ARE FROM WILLOW ROAD



TS SHT NO. 12

TS 5655
ECON 5

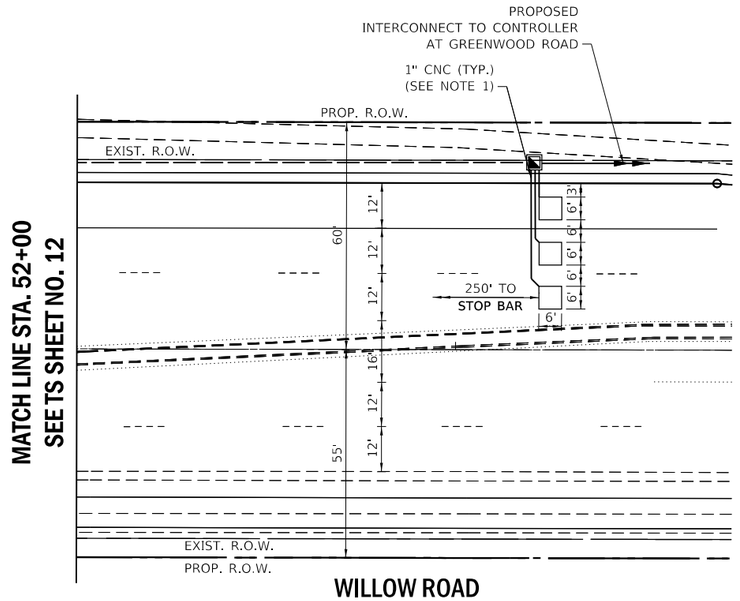
FILE NAME: P171109-sht-ts-signalplan-01.dgn	USER NAME = bscifers	DESIGNED - DWB	REVISED -
		DRAWN - DWB	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -
	PLOT DATE = 8/4/2020	DATE - 8/4/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
WILLOW ROAD AND PFINGSTON ROAD

SCALE: SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	56
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	



N

0 20 40 60

SCALE IN FEET

NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

TS SHT NO. 13

TS 5655
ECON 5

FILE NAME: P171109-sht-ts-signalplan-02.dgn	USER NAME = dbennett	DESIGNED - DWB	REVISED -
		DRAWN - DWB	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -
	PLOT DATE = 1/24/2020	DATE - 1/24/2020	REVISED -

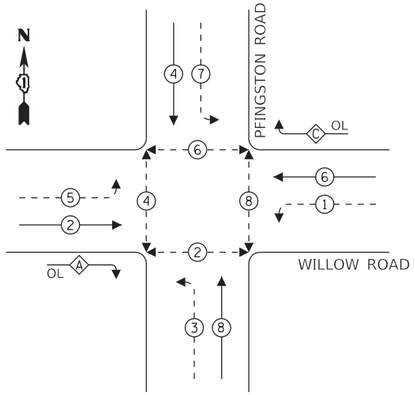
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
WILLOW ROAD AND PFINGSTON ROAD

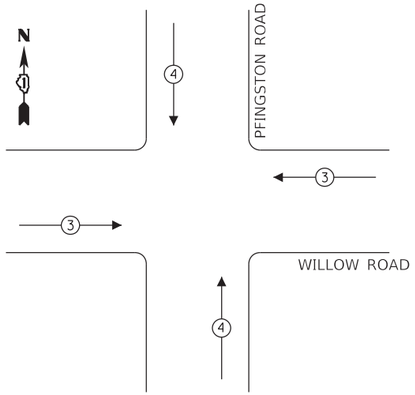
SCALE: SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	57
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

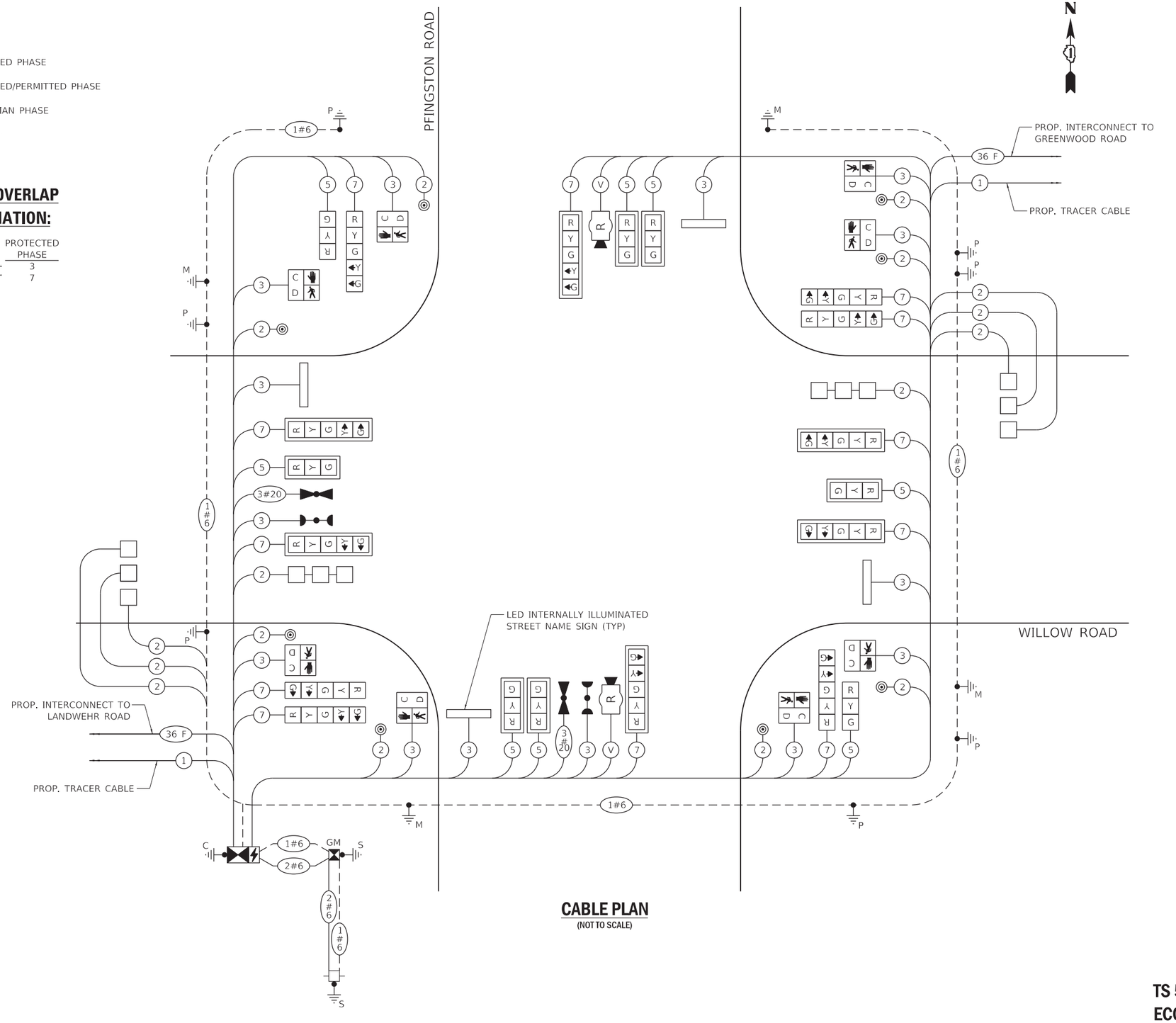
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110
(YELLOW)	20	20	5	20
(GREEN)	20	12	45	108
PERMISSIVE ARROW	24	10	10	24
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	4	120	100	480
LUMINAIRE	-	-	-	-
			TOTAL =	1027

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: -
PHONE: -
COMPANY: COMED
ACCOUNT NUMBER: PR METERED: 12631-03350



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 14

TS 5655
ECON 5

FILE NAME: P171109-sht-ts-cableplan,dgn	USER NAME = bscifers	DESIGNED - DWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - DWB	REVISED -	
	PLOT SCALE = 2.0000 ' / in.	CHECKED - BKS	REVISED -	
	PLOT DATE = 8/4/2020	DATE - 8/4/2020	REVISED -	

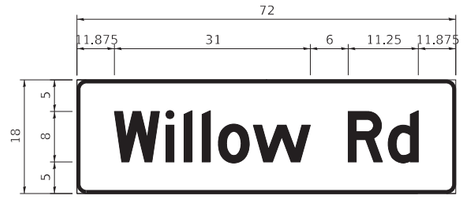
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
WILLOW ROAD AND PFINGSTON ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

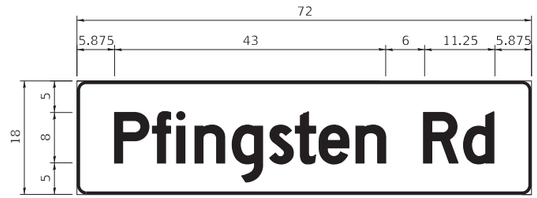
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	58
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL - TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	SHEETING TYPE	QTY. REQUIRED
D	LED	2



DESIGN SERIES	SHEETING TYPE	QTY. REQUIRED
D	LED	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL

SCHEDULE OF QUANTITIES

	CODED PAY ITEMS	UNIT	QTY
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	791
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	211
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	521
	HANDHOLE	EACH	4
	HEAVY-DUTY HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	2
*	PAINT NEW TRAFFIC SIGNAL POST (SPECIAL)	EACH	7
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1485
**	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1890
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1810
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2595
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2775
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	110
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	828
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT	EACH	2
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
	CONCRETE FOUNDATION, TYPE A	FOOT	32
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
	DRILL EXISTING HANDHOLE	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
	INDUCTIVE LOOP DETECTOR	EACH	8
	DETECTOR LOOP, TYPE I	FOOT	432
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	8
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	14
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	13
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	360
*	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1
**	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. (SPECIAL)	EACH	1
**	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT. (SPECIAL)	EACH	1
**	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. (SPECIAL)	EACH	2
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
*	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	895

* 100% COST TO THE VILLAGE OF GLENVIEW

** PARTIAL COST TO THE VILLAGE OF GLENVIEW

TS SHT NO. 15

TS 5655
ECON 5

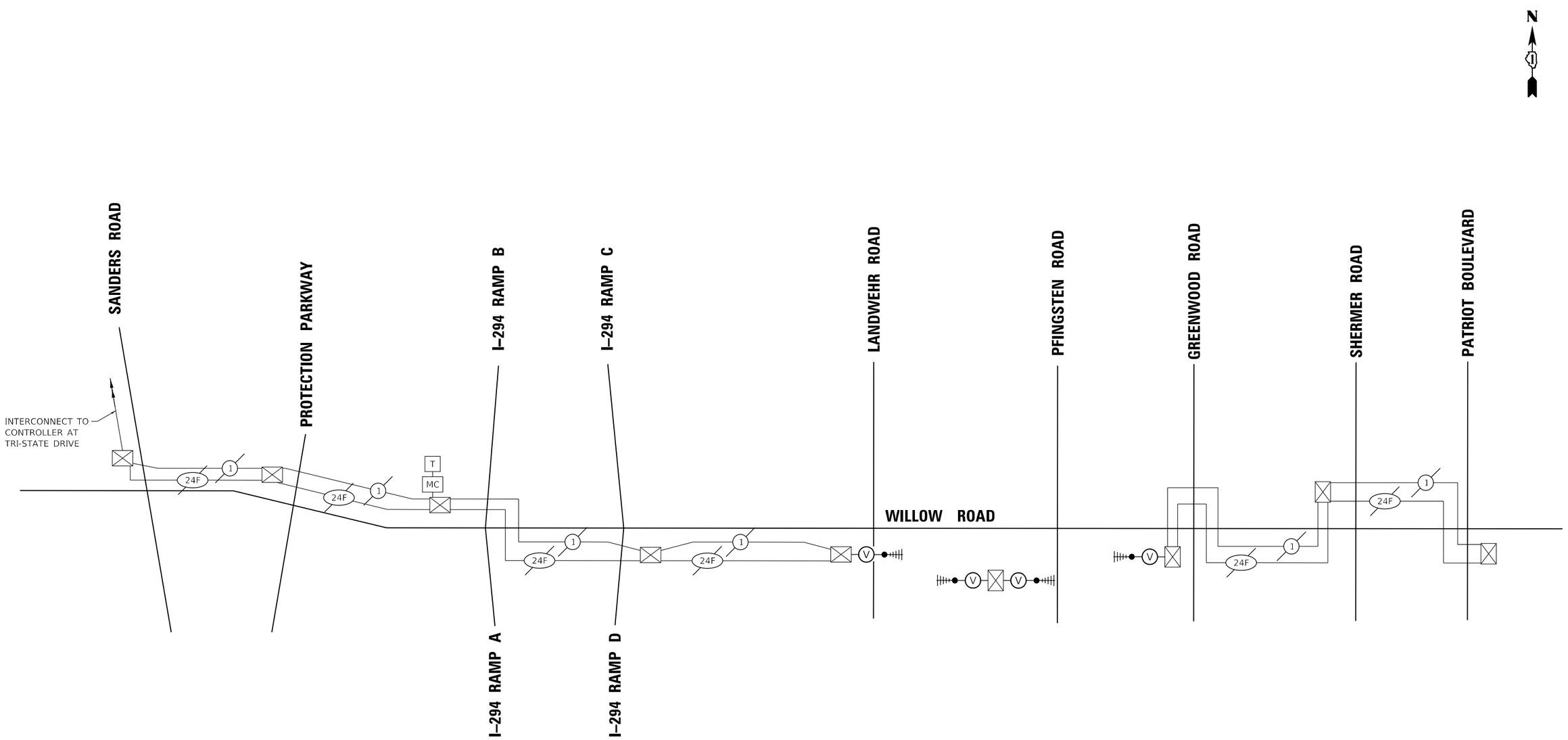
FILE NAME: P171109-sht-ts-MAM_SOO.dgn	USER NAME = bscifers	DESIGNED - DWB	REVISED -
		DRAWN - DWB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - BKS	REVISED -
	PLOT DATE = 8/4/2020	DATE - 8/4/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
WILLOW ROAD AND PFINGSTON ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	59
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	



TS SHT NO. 16

ECON 5

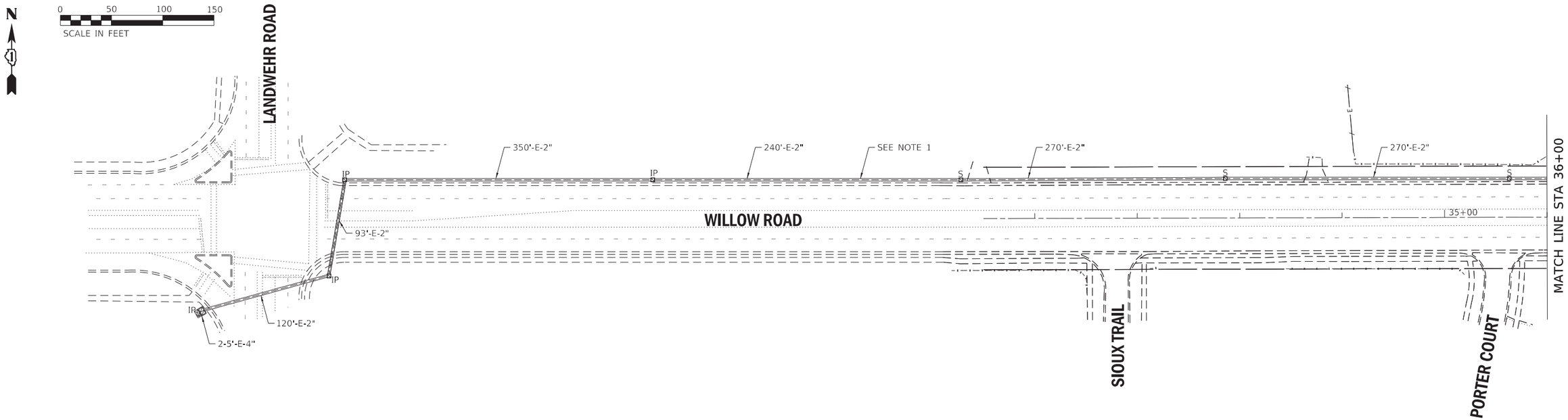
FILE NAME: P171109-sht-ts-tempInterconnectcable.dgn	USER NAME = dbennett	DESIGNED - DWB	REVISED -
		DRAWN - DWB	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -
	PLOT DATE = 1/24/2020	DATE - 1/24/2020	REVISED -

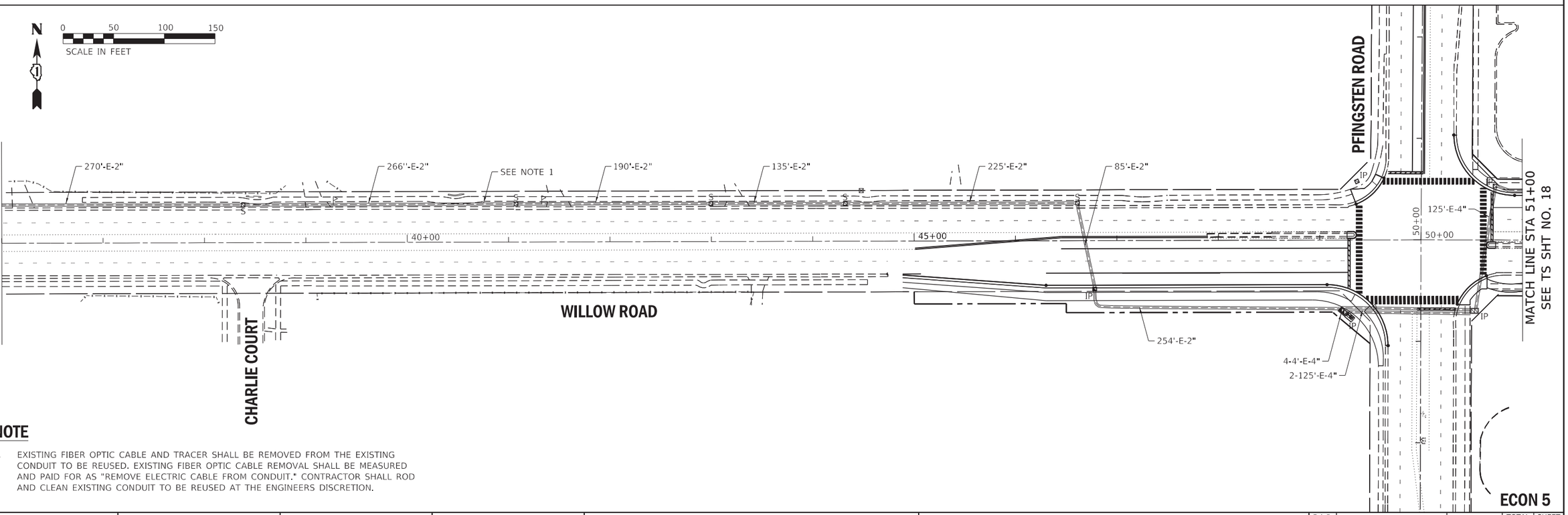
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
WILLOW ROAD AND PFINGSTON ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	60
		CONTRACT NO. 60Y23		
		ILLINOIS FED. AID PROJECT		





TS SHT NO. 17

NOTE

1. EXISTING FIBER OPTIC CABLE AND TRACER SHALL BE REMOVED FROM THE EXISTING CONDUIT TO BE REUSED. EXISTING FIBER OPTIC CABLE REMOVAL SHALL BE MEASURED AND PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT." CONTRACTOR SHALL ROD AND CLEAN EXISTING CONDUIT TO BE REUSED AT THE ENGINEERS DISCRETION.

ECON 5

FILE NAME: P171109-sht-ts-PropInterconnect-01.dgn	USER NAME = bscifers	DESIGNED - DWB	REVISED -
		DRAWN - DWB	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BKS	REVISED -
	PLOT DATE = 8/4/2020	DATE - 8/4/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
WILLOW ROAD AND PFINGSTON ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

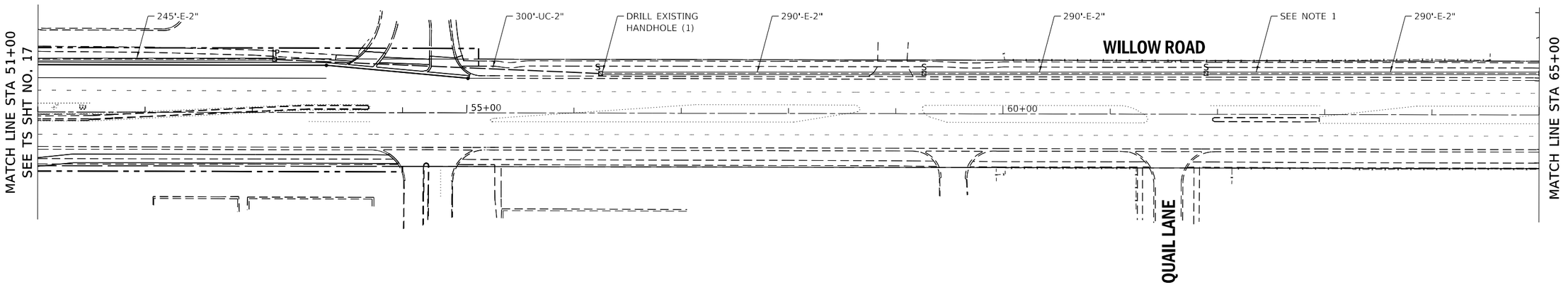
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	61
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

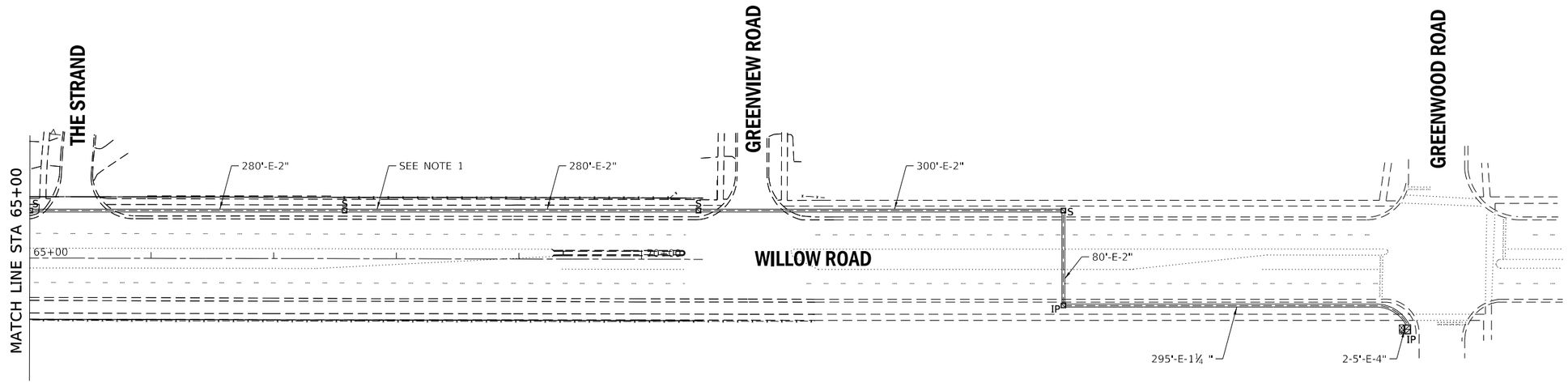
NOTE

1. EXISTING FIBER OPTIC CABLE AND TRACER SHALL BE REMOVED FROM THE EXISTING CONDUIT TO BE REUSED. EXISTING FIBER OPTIC CABLE REMOVAL SHALL BE MEASURED AND PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT." CONTRACTOR SHALL ROD AND CLEAN EXISTING CONDUIT TO BE REUSED AT THE ENGINEERS DISCRETION.

N

0 50 100 150
SCALE IN FEET





N

0 50 100 150
SCALE IN FEET

TS SHT NO. 18

ECON 5

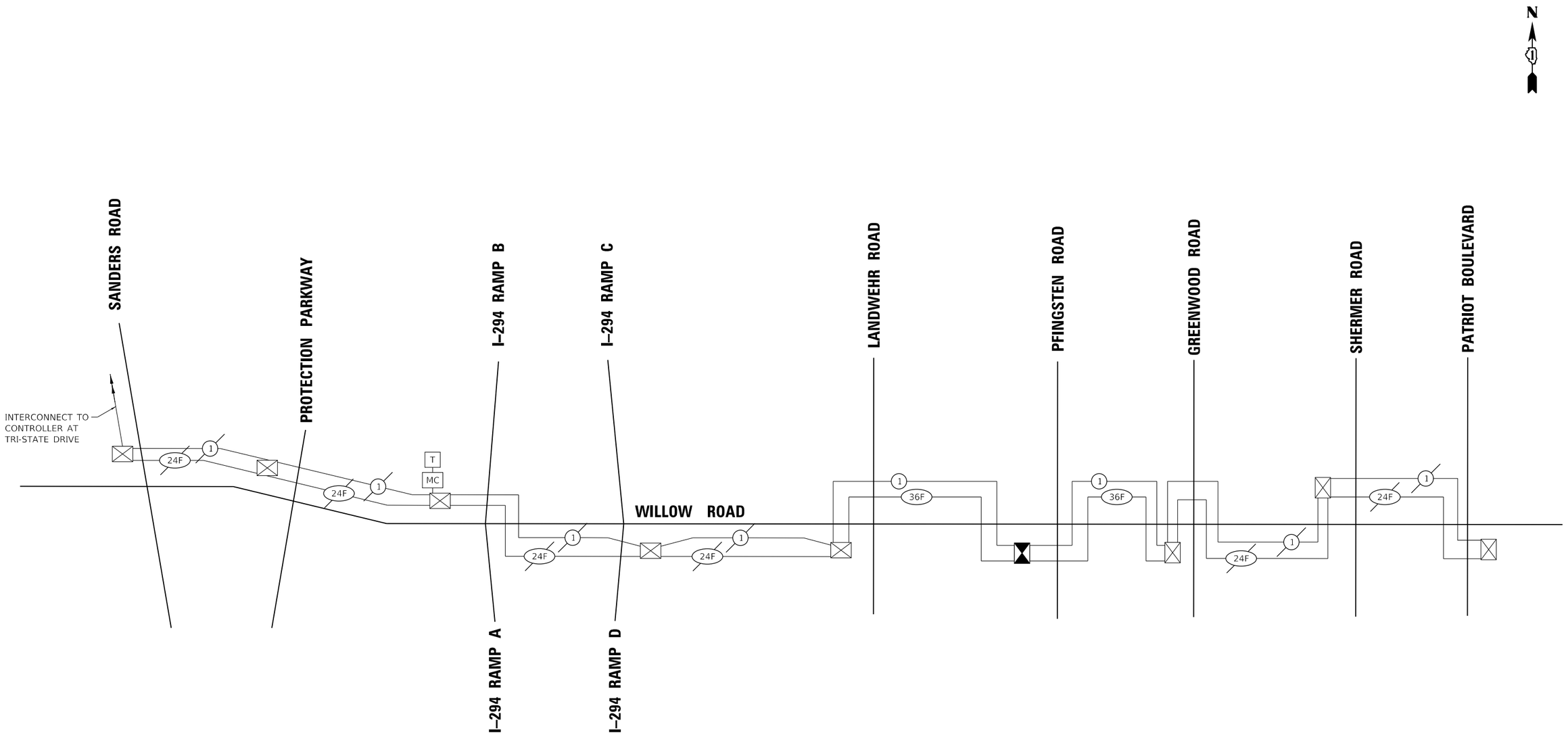
FILE NAME: P171109-sht-ts-PropInterconnect-02.dgn	USER NAME = dbennett	DESIGNED - DWB	REVISED -
		DRAWN - DWB	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BKS	REVISED -
	PLOT DATE = 1/24/2020	DATE - 1/24/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
WILLOW ROAD AND PHINGSTON ROAD

SCALE: 1"=50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	62
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	



SCHEDULE OF QUANTITIES

CODED PAY ITEMS	UNIT	QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	300
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5925
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9000
ROD AND CLEAN EXISTING CONDUIT	FOOT	3700
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5975
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

TS SHT NO. 19

ECON 5

FILE NAME: P171109-sht-ts-Interconnectcableplan.dgn

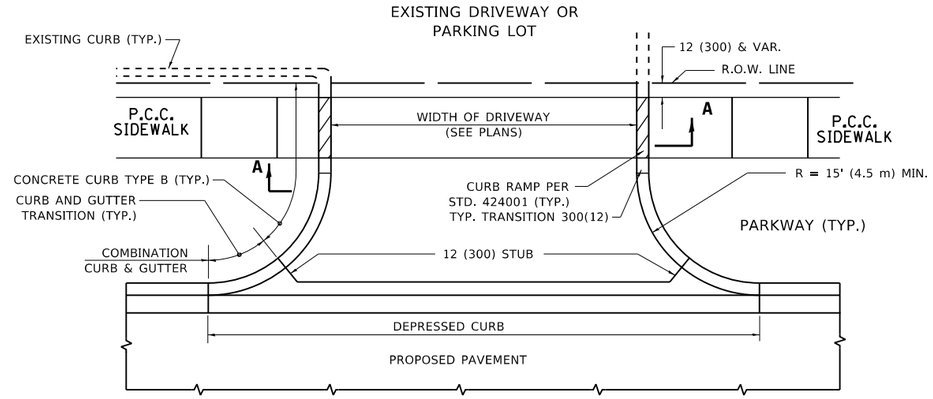
USER NAME = dbennett	DESIGNED - DWB	REVISED -
	DRAWN - DWB	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/24/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

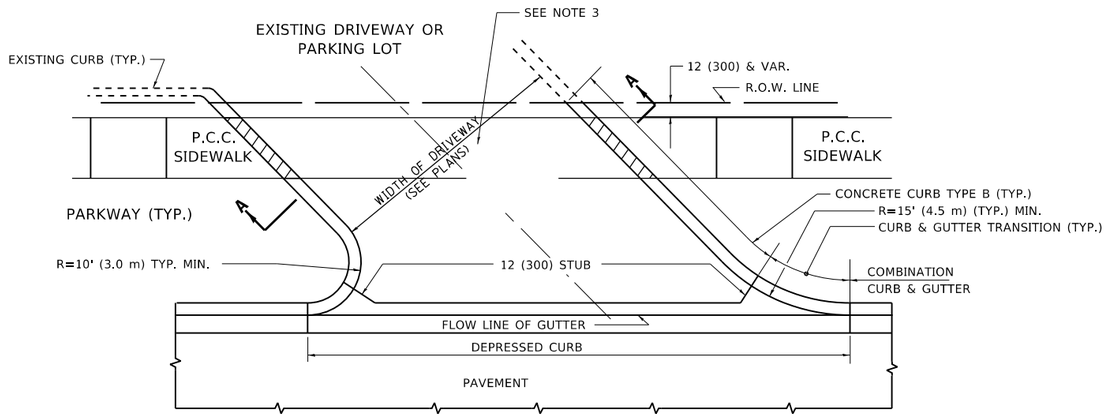
PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
WILLOW ROAD AND PFINGSTON ROAD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

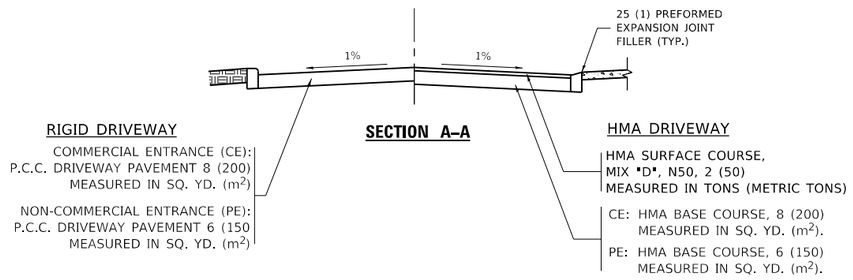
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	63
		CONTRACT NO. 60Y23		
		ILLINOIS	FED. AID PROJECT	

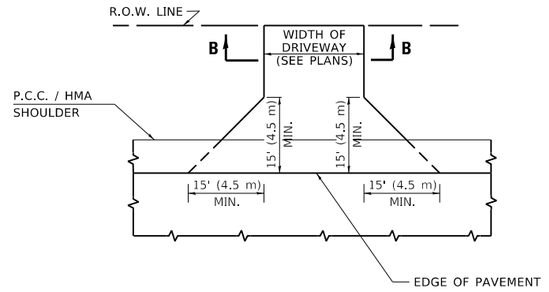


WITH CONCRETE CURB, TYPE B

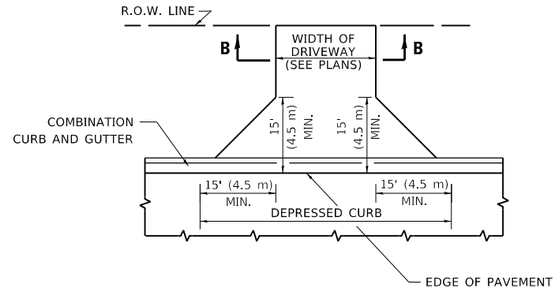


WITH CONCRETE CURB, TYPE B

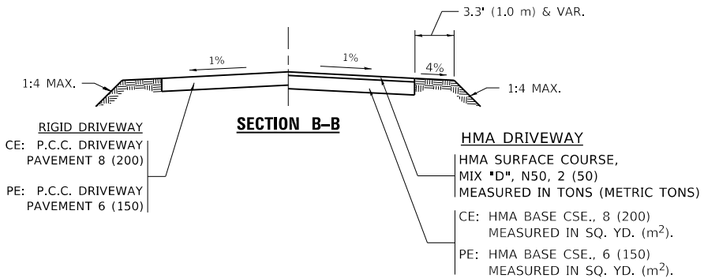




ADJACENT TO P.C.C./HMA SHOULDER



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.

RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m^2).

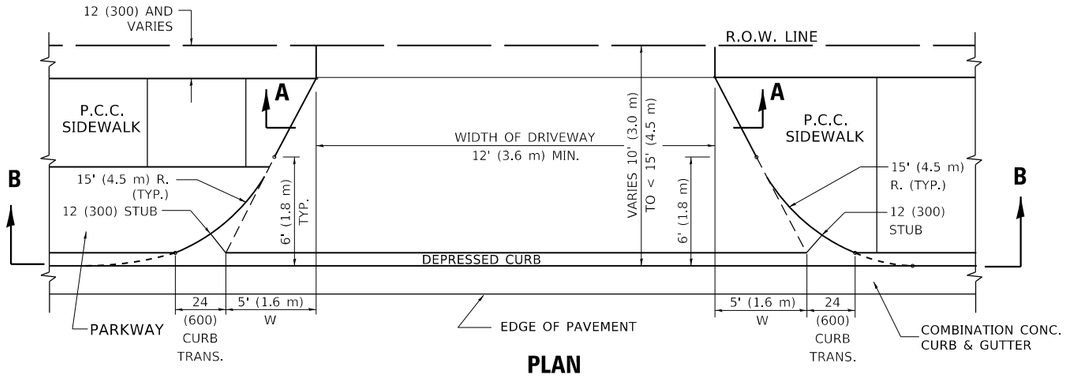
USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03	
	DRAWN -	REVISED - R. BORO 01-01-07	
PLOT SCALE = 100.0002 ' / in.	CHECKED -	REVISED - R. BORO 06-11-08	
PLOT DATE = 5/7/2020	DATE - 11-04-95	REVISED - R. BORO 09-06-11	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥15'(4.5m)

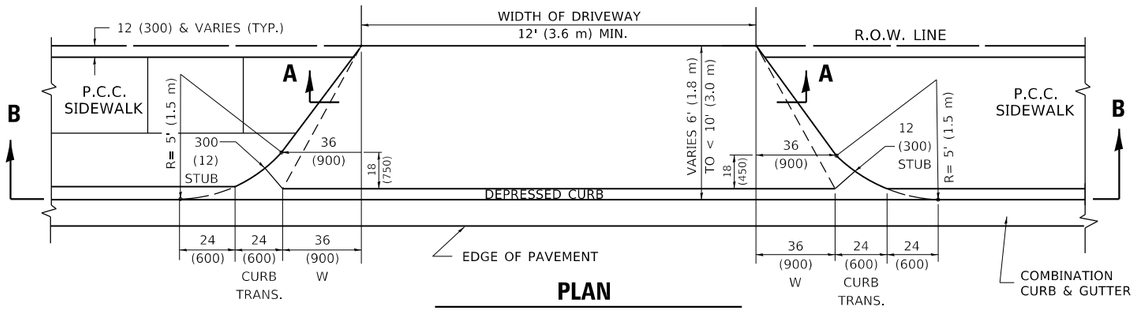
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	64
	BD400–01 (BD–01)	CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			



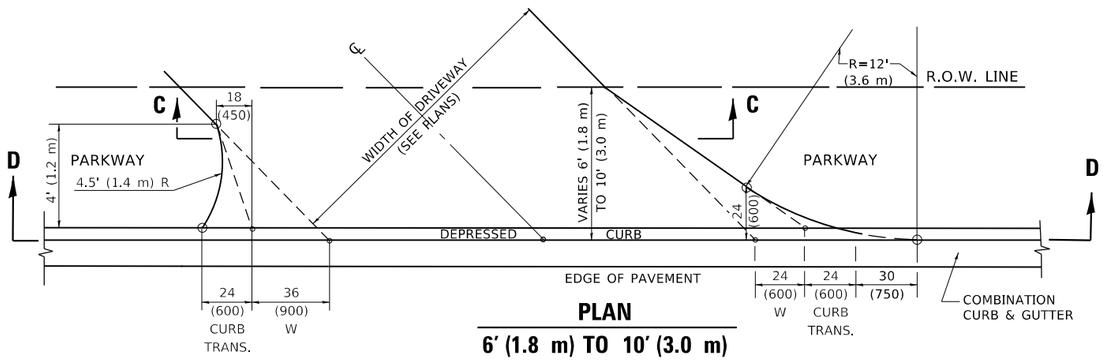
PLAN

10′ (3.0 m) TO < 15′ (4.5 m)



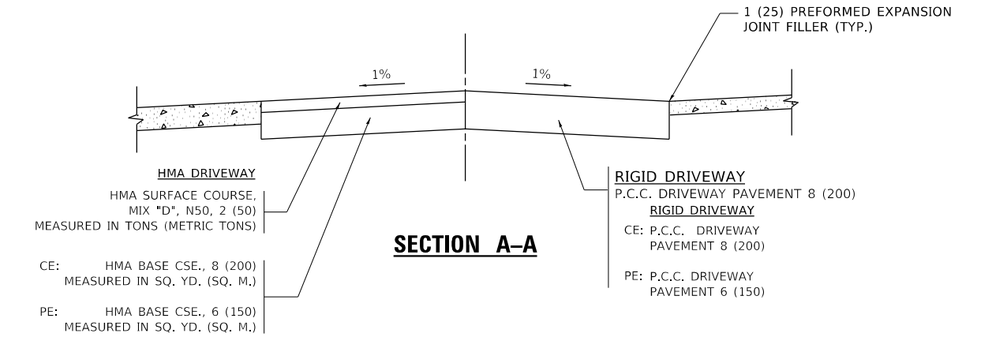
PLAN

6′ (1.8 m) TO < 10′ (3.0 m)

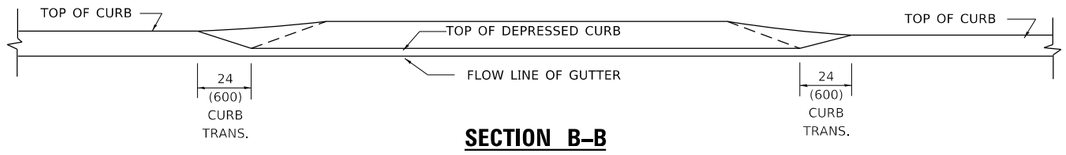


PLAN

6′ (1.8 m) TO 10′ (3.0 m)



SECTION A–A



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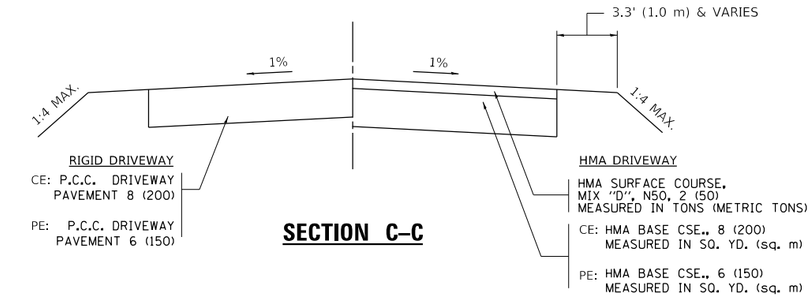

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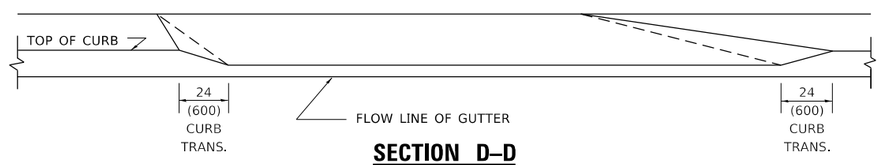

SECTION D–D

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.

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	DRAWN -	REVISED - P. LaFLUER 04-15-03	
PLOT SCALE = 100.0002 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07	
PLOT DATE = 5/7/2020	DATE - 11-06-95	REVISED - R. BORO 09-06-11	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15′ (4.5m)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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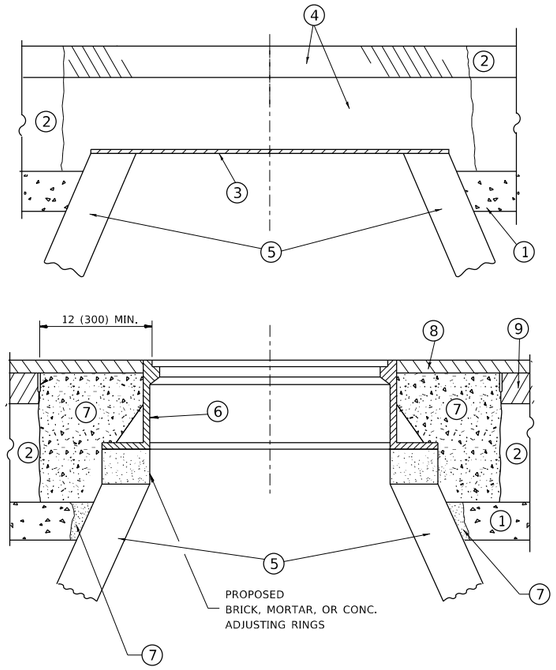
	BD400–02 (BD–02)	CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		



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 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS 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

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.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PLOT DATE = 5/7/2020	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 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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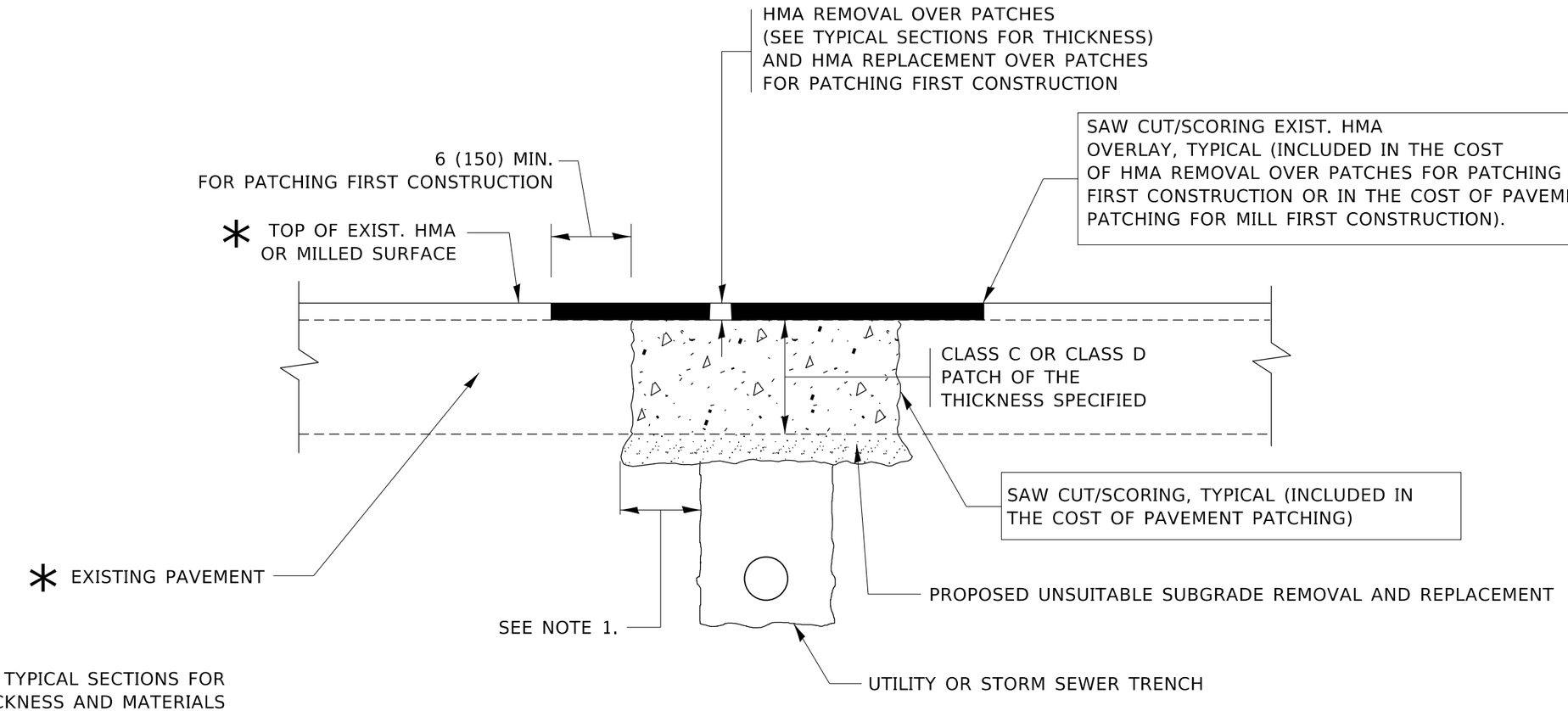
	ILLINOIS	FED. AID PROJECT		



* 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 4½ 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.

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PLOT DATE = 5/7/2020	DATE - 10-25-94	REVISED - K. ENG 10-27-08	

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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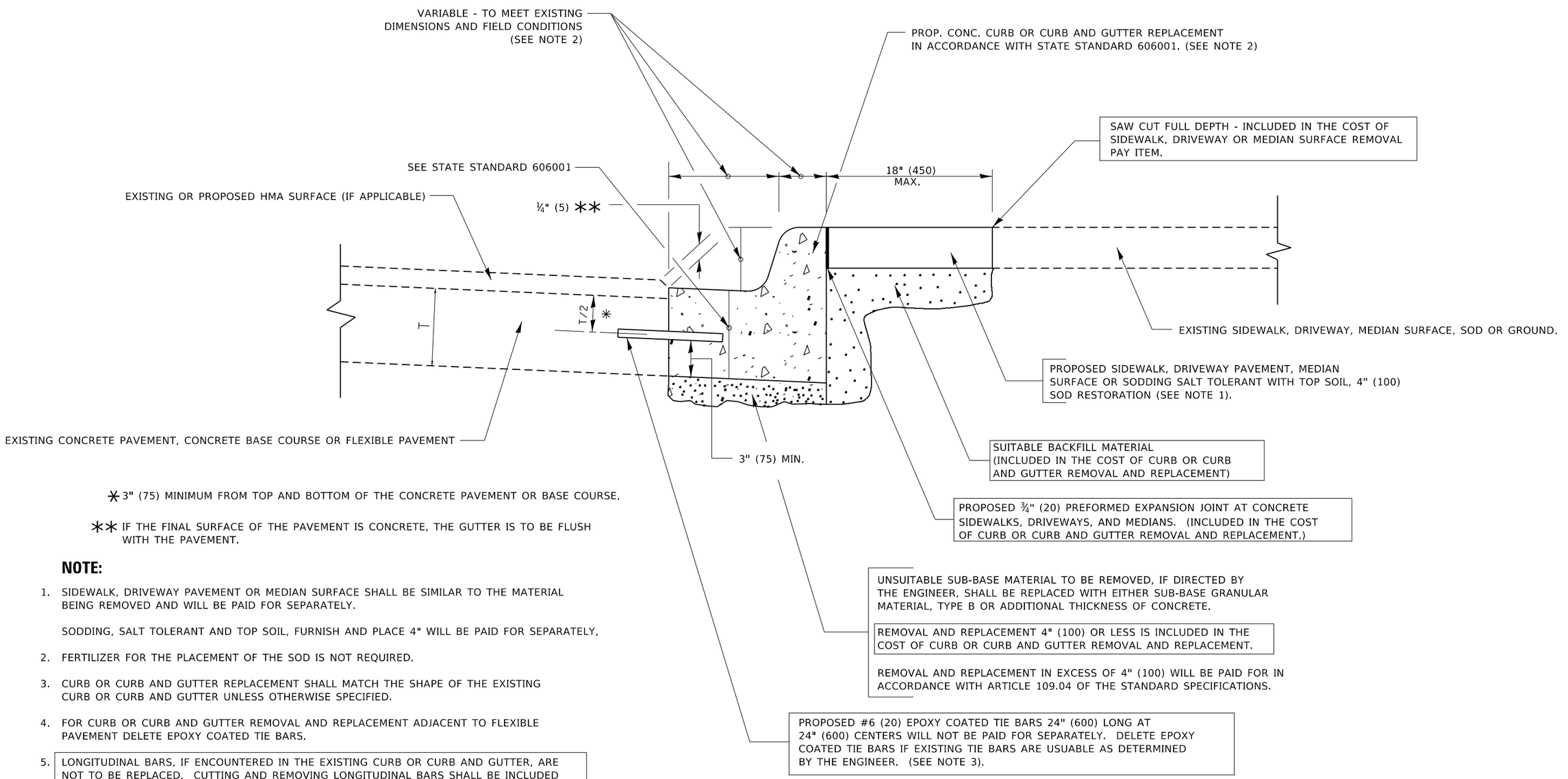
	BD400–04 (BD–22)	CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			



* 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.

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".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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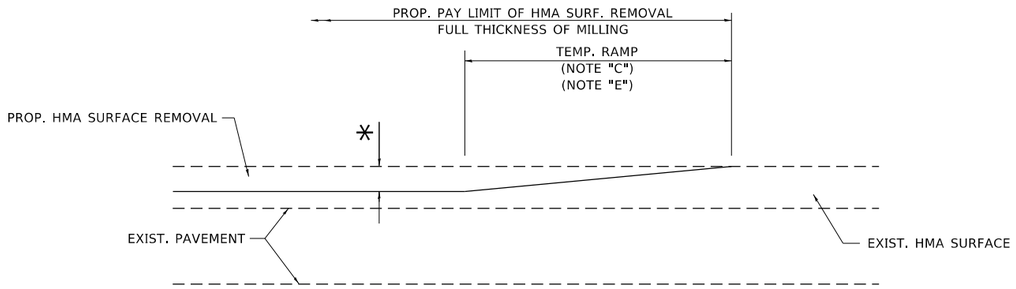
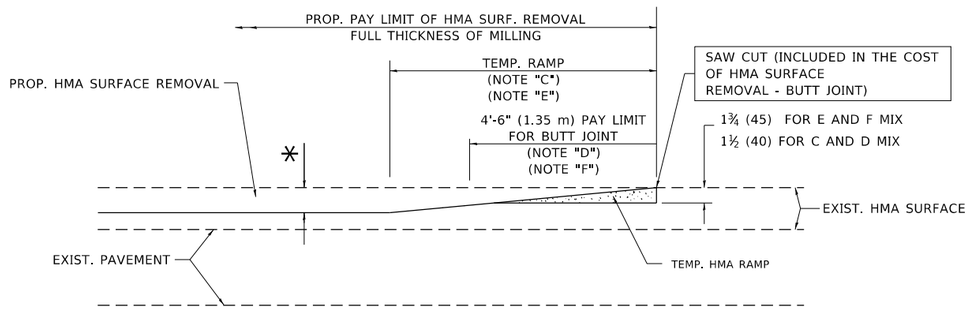
	ILLINOIS FED. AID PROJECT			



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

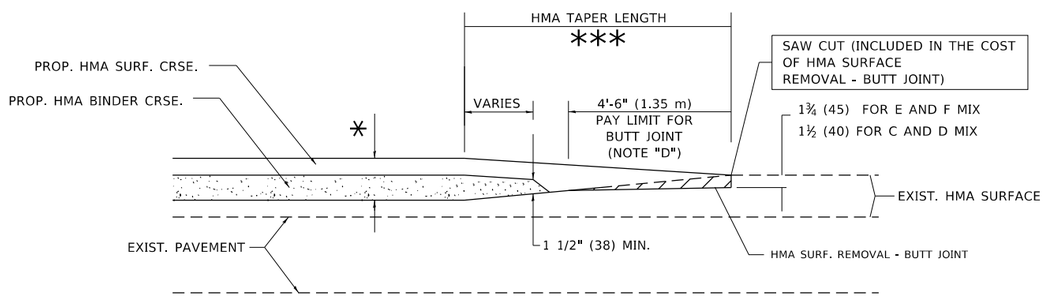


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

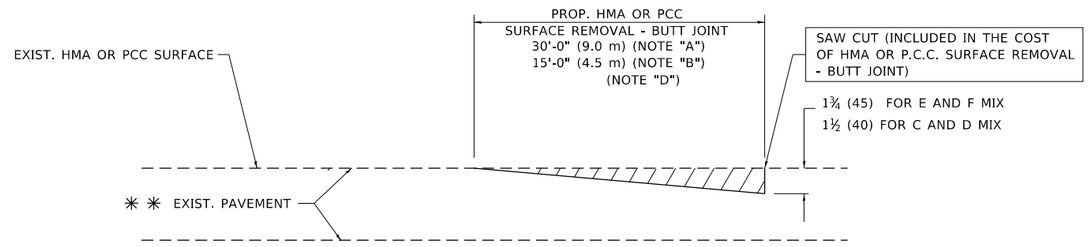
OPTION 2

TYPICAL TEMPORARY RAMP

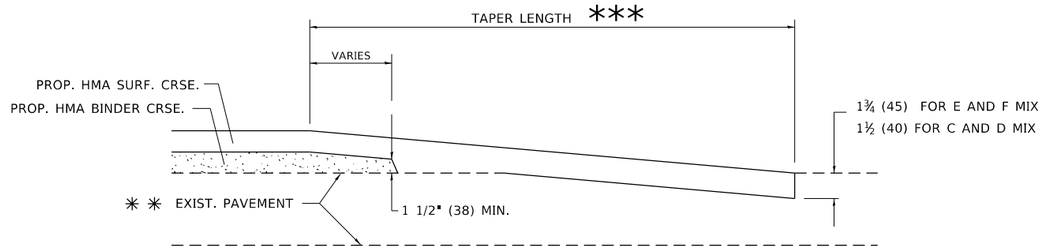


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 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.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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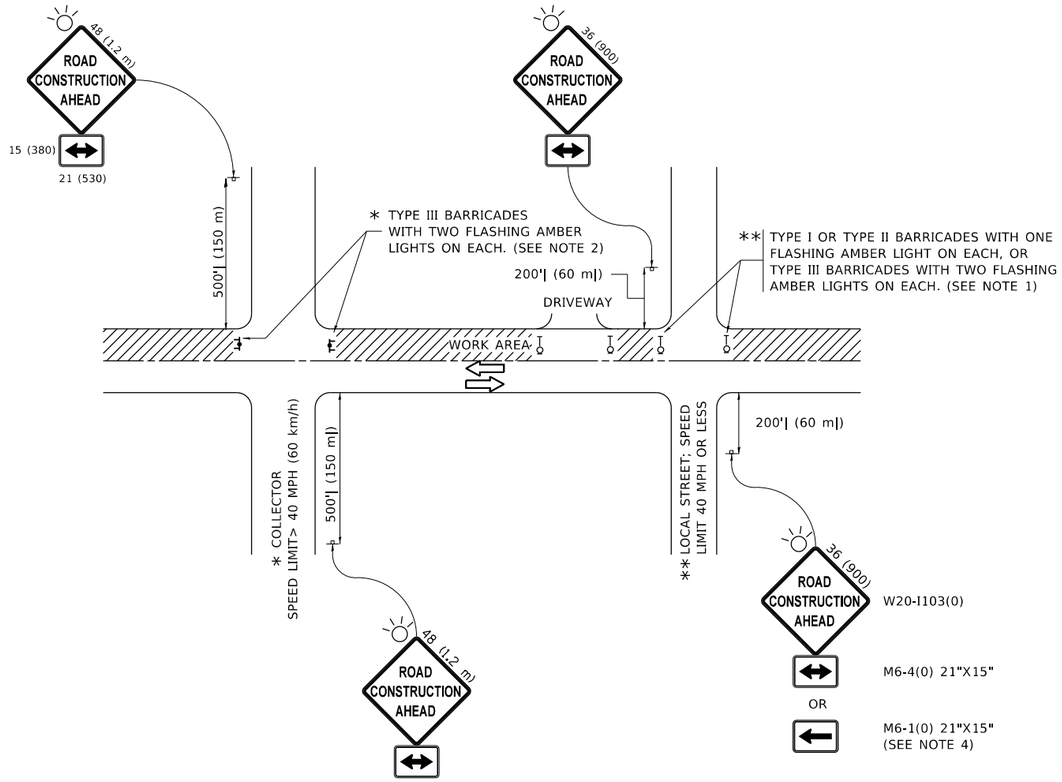
	BD400–05 BD32	CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			



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 = 5/7/2020	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

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

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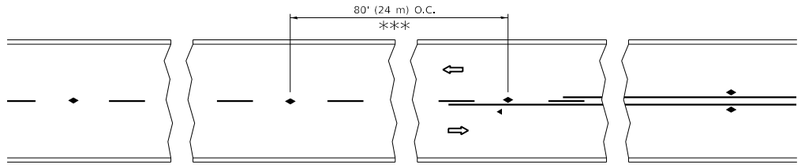
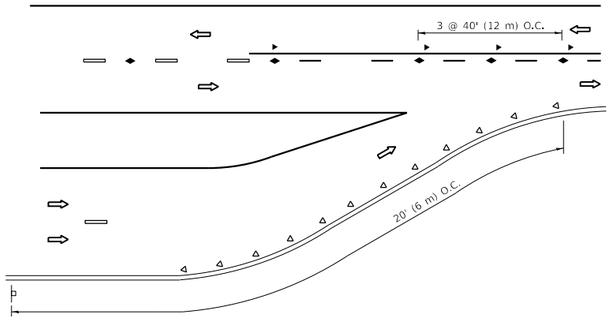


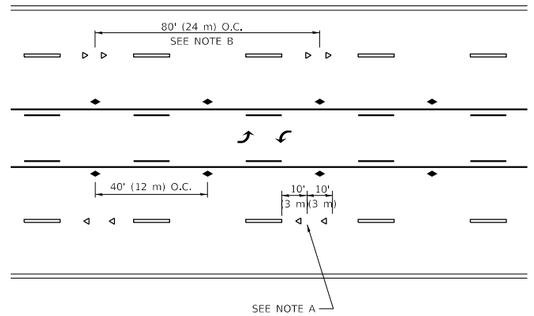
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

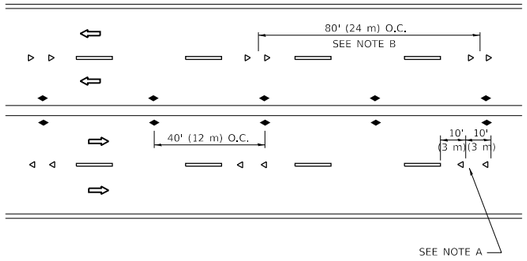
SEE FIGURE 3B-14 MUTCD



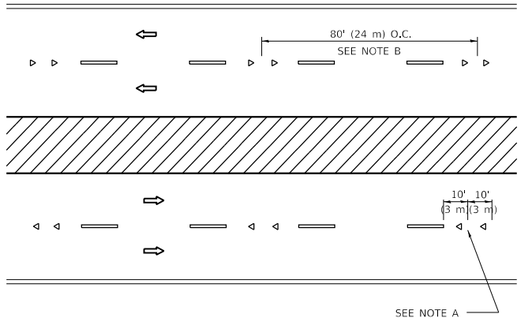
LANE REDUCTION TRANSITION



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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

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

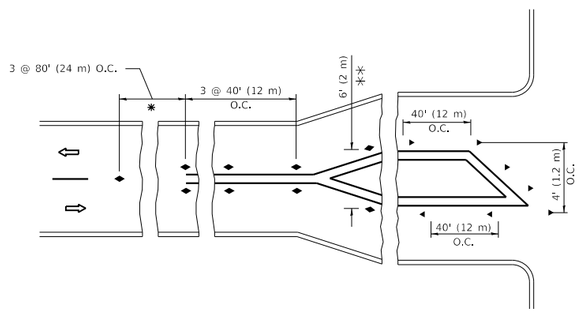
LANE MARKER NOTES

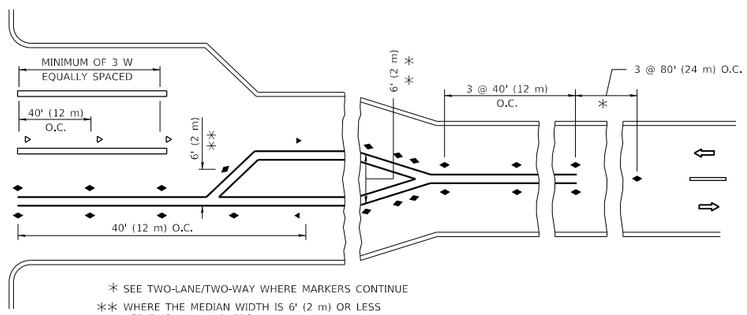
A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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.

TURN LANES

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

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USER NAME = paraynoal	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 100.0002 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09	
PLOT DATE = 5/7/2020	DATE -	REVISED - C. JUCIUS 07-01-13	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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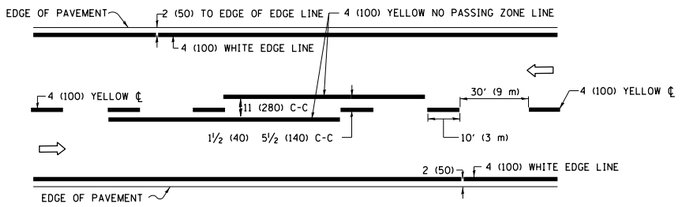
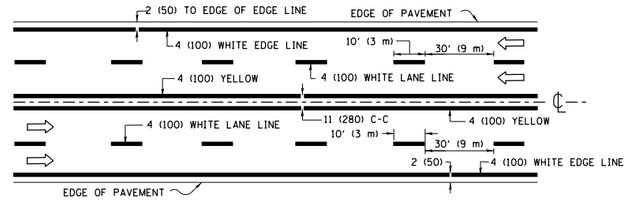
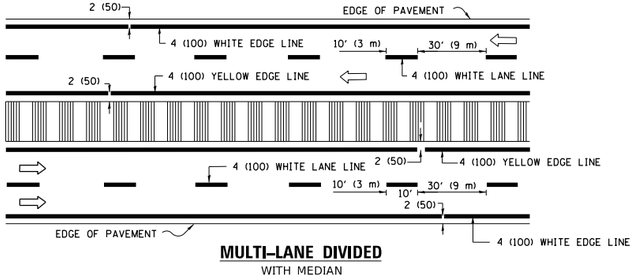
	TC-11	CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			



2–LANE ROADWAY

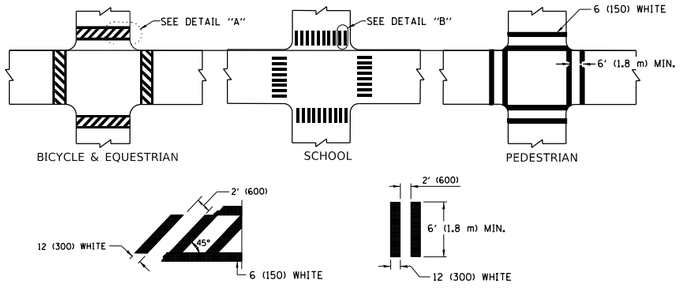


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

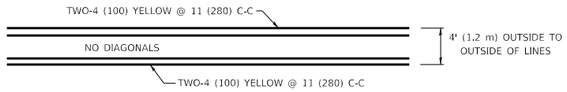
TYPICAL LANE AND EDGE LINE MARKING



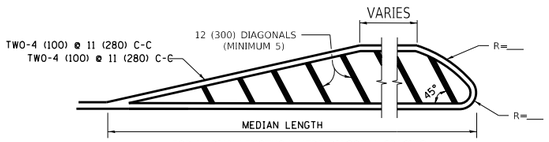
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



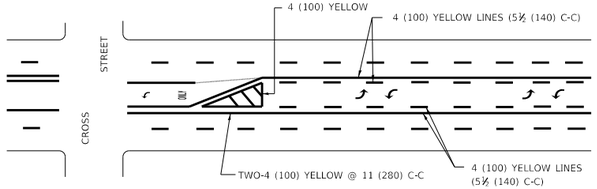
4' (1.2 m) WIDE MEDIANS ONLY



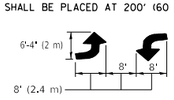
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

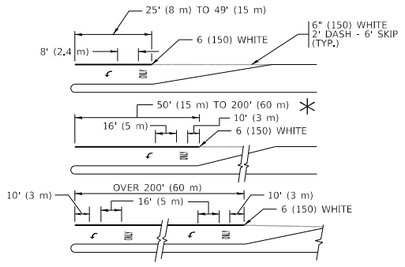


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

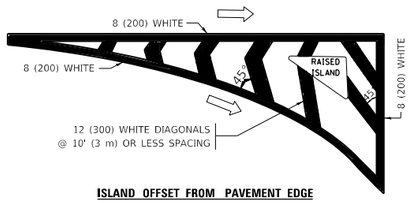


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ²

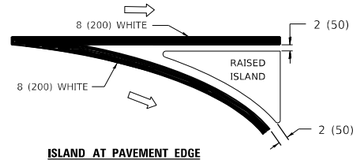
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

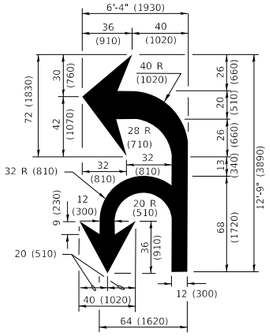


ISLAND OFFSET FROM PAVEMENT EDGE

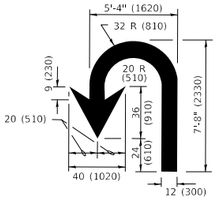


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

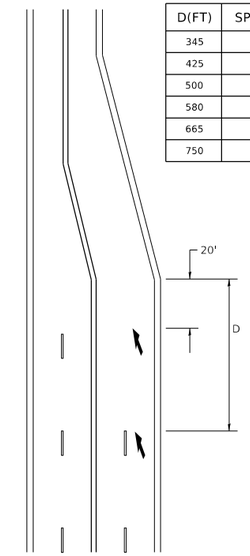


COMBINATION LEFT AND U–TURN



U–TURN

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



LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 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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	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 100.0002 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 5/7/2020	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	72
	TC–13	CONTRACT NO. 60Y23		
		ILLINOIS FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

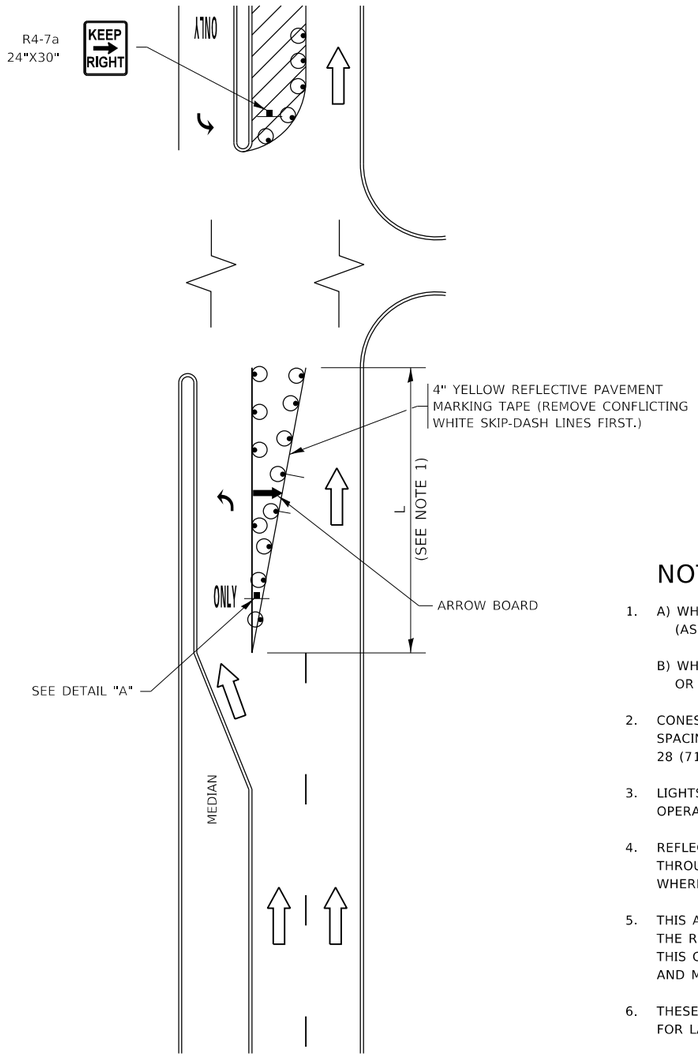


FIGURE 1

LEGEND

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

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

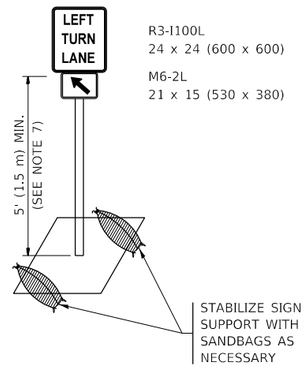
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

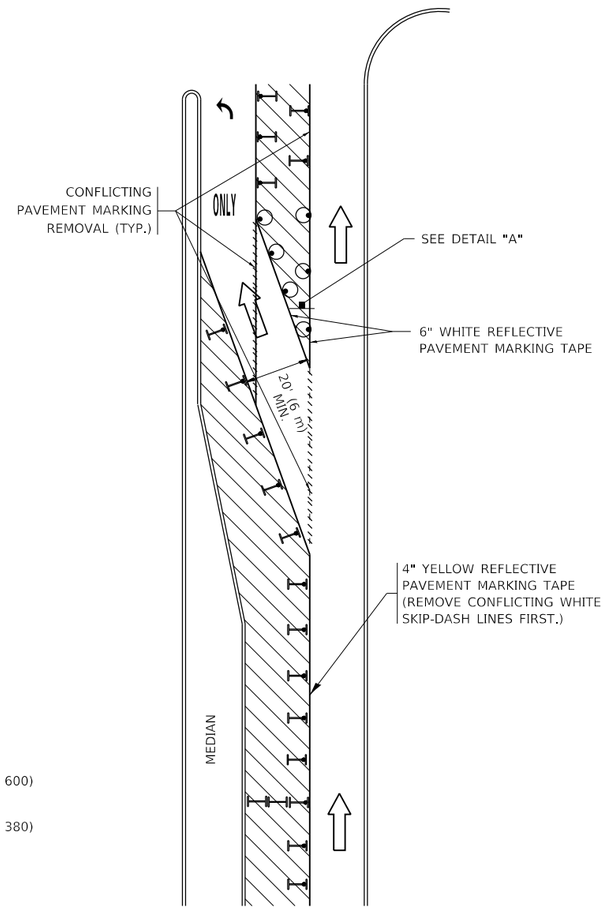


FIGURE 2

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

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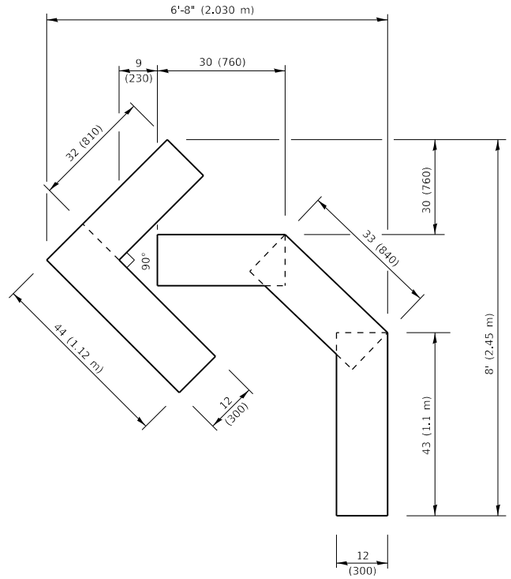
USER NAME = paraynoal	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 100.0002 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 5/7/2020	DATE - T. RAMMACHER 01-06-00	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

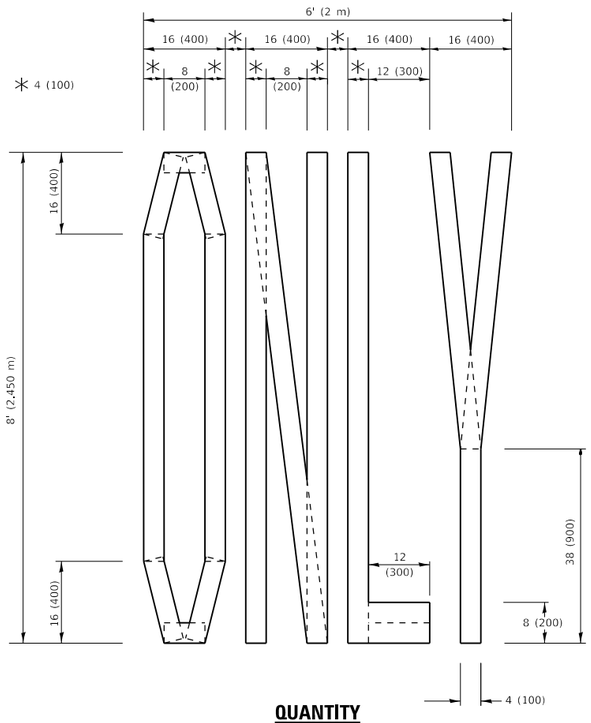
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	73
	TC-14	CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			



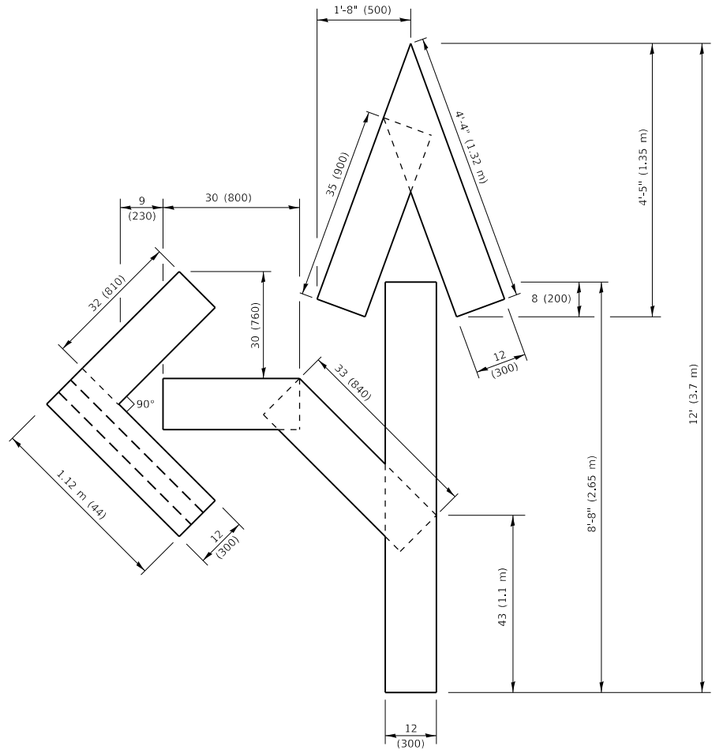
QUANTITY

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)

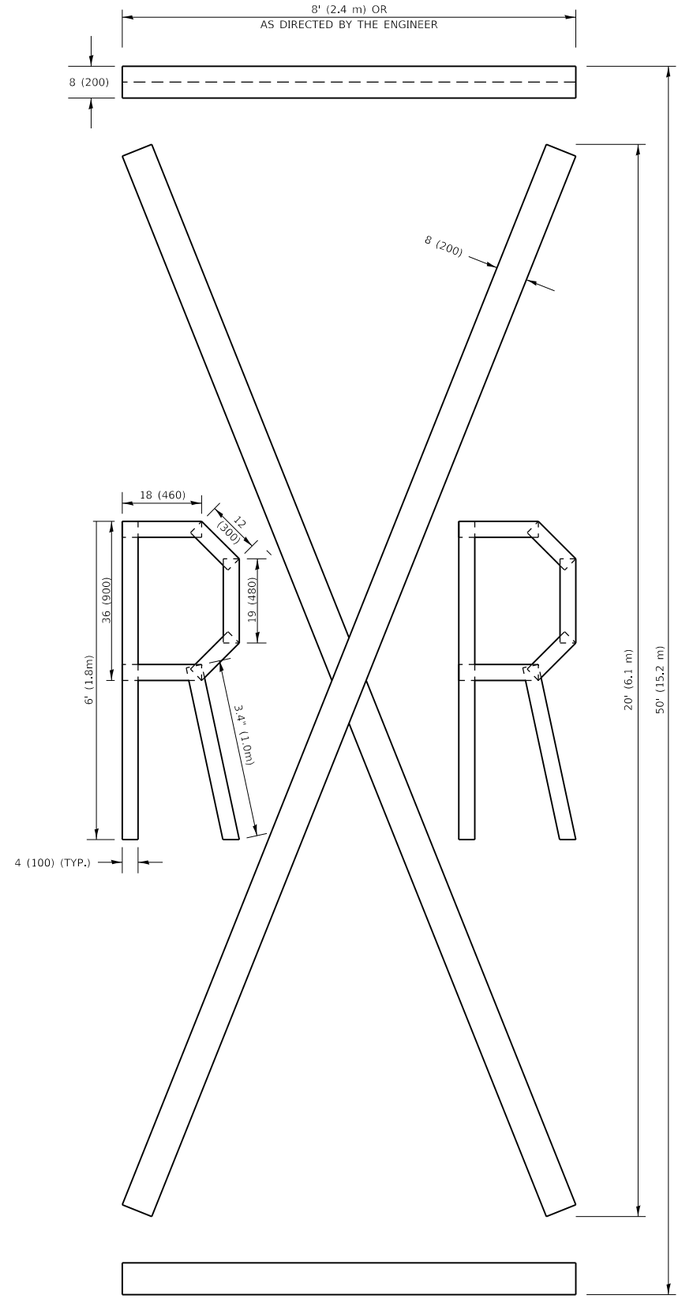


QUANTITY

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.

MODEL: Default
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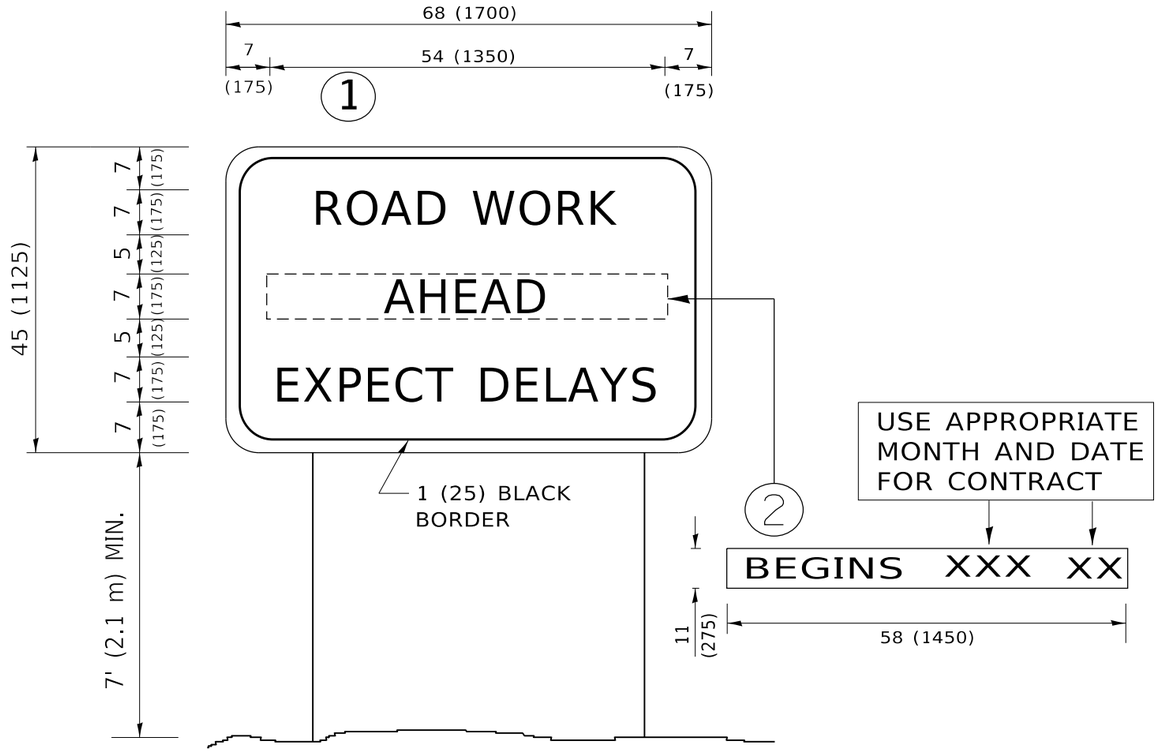
	DRAWN -	REVISED - E. GOMEZ 08-28-00	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	
PLOT DATE = 5/7/2020	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	74
	TC-16	CONTRACT NO. 60Y23		
	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.

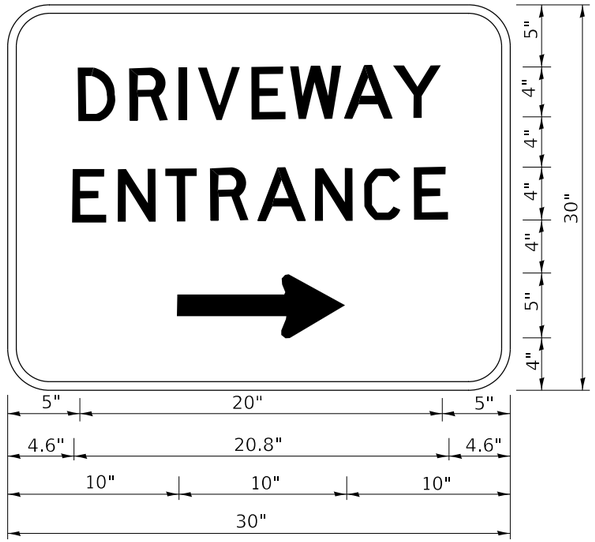
USER NAME = paraynoal	DESIGNED -	REVISED - R. MIRS 09-15-97	
	DRAWN -	REVISED - R. MIRS 12-11-97	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	
PLOT DATE = 5/7/2020	DATE -	REVISED - C. JUCIUS 01-31-07	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	75
	TC–22	CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

USER NAME = paraynoal	DESIGNED -	REVISED - C. JUCIUS 02-15-07	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/7/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	76
	TC–26	CONTRACT NO. 60Y23		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\P171109\CADData\Drawings\P171109-sht-xssht-Willow.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. 42+00.00 | TO STA. 45+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	77
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FILE NAME = p:\plan-room\dot\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\P171189\C402\Drawings\P171189-sht-xsht-Willow.dgn

USER NAME = pse-agrosal

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/7/2020

Default

DESIGNED - DRAWN -

CHECKED - DATE -

REVISED - REVISED - REVISED -

REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: 1

SHEET OF SHEETS STA. 46+00.00 TO STA. 50+00.00

F.A.P. RTE. 305 | SECTION 1719-NI14) | COUNTY COOK | TOTAL SHEETS 80 | SHEET NO. 78

ILLINOIS FED. AID PROJECT

CONTRACT NO. 60Y23

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

685 680 675 670 690

WILLOW RD. ℄ 677.00

EXIST. TOPSOIL EXC. (8") AND PLACEMENT = 0 SQ. FT
UNSUITABLE MATERIAL = 0 SQ. FT
CUT = 0 SQ. FT
FILL = 0 SQ. FT
PROP. FURNISHED FINAL TOPSOIL, 4" = 0 SQ. FT

50 + 00.00

R.O.W. EXIST. P.C.C. SIDEWALK 676.21 = EXIST. EOP ½ VARIES WILLOW RD. ℄ 676.60 ½ VARIES 676.16 = EXIST. EOP 675.87 = PROP. EOP R.O.W. PROP. HMA PATH 8.4' 676.40 2.0' NEW PROP. R.O.W. NEW PROP. T.E. CURRENT PROP. R.O.W. 2.5 % 2.0% 1.5%

EXIST. TOPSOIL EXC. (8") AND PLACEMENT = 20.7 SQ. FT
UNSUITABLE MATERIAL = 20.7 SQ. FT
CUT = 16.8 SQ. FT
FILL = 0.0 SQ. FT
PROP. FURNISHED FINAL TOPSOIL, 4" = 2.0 SQ. FT

49 + 00.00

R.O.W. EXIST. P.C.C. SIDEWALK 675.92 = EXIST. EOP ½ VARIES WILLOW RD. ℄ 676.61 ½ VARIES 675.91 = EXIST. EOP 675.62 = PROP. EOP R.O.W. PROP. HMA PATH 8.0' 676.15 2.7' 3.8' NEW PROP. R.O.W. NEW PROP. T.E. CURRENT PROP. R.O.W. 2.5 % 2.0% 1.5%

EXIST. TOPSOIL EXC. (8") AND PLACEMENT = 20.5 SQ. FT
UNSUITABLE MATERIAL = 20.5 SQ. FT
CUT = 44.6 SQ. FT
FILL = 0.0 SQ. FT
PROP. FURNISHED FINAL TOPSOIL, 4" = 2.9 SQ. FT

48 + 00.00

R.O.W. EXIST. P.C.C. SIDEWALK 675.98 = EXIST. EOP ½ VARIES WILLOW RD. ℄ 676.55 ½ VARIES 675.89 = EXIST. EOP 675.64 = PROP. EOP R.O.W. PROP. HMA PATH 8.0' 676.03 4.1' NEW PROP. R.O.W. NEW PROP. T.E. CURRENT PROP. R.O.W. 2.5 % 2.0% 1.5%

EXIST. TOPSOIL EXC. (8") AND PLACEMENT = 24.3 SQ. FT
UNSUITABLE MATERIAL = 24.3 SQ. FT
CUT = 67.8 SQ. FT
FILL = 0.0 SQ. FT
PROP. FURNISHED FINAL TOPSOIL, 4" = 4.5 SQ. FT

47 + 00.00

R.O.W. EXIST. P.C.C. SIDEWALK 676.35 = EXIST. EOP ½ VARIES WILLOW RD. ℄ 676.79 ½ VARIES 676.153 = EXIST. EOP 675.87 = PROP. EOP R.O.W. PROP. HMA PATH 8.0' 676.40 3.0' CURRENT PROP. R.O.W. NEW PROP. T.E. 2.5 % 2.0% 1.5%

EXIST. TOPSOIL EXC. (8") AND PLACEMENT = 18.2 SQ. FT
UNSUITABLE MATERIAL = 18.2 SQ. FT
CUT = 36.5 SQ. FT
FILL = 0.0 SQ. FT
PROP. FURNISHED FINAL TOPSOIL, 4" = 2.5 SQ. FT

46 + 00.00

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FILE NAME = p:*\plan-room\dot\illinois\dgn\PW1DOT\Documents\DOT Offices\District 1\Projects\P171189\CAD\Cad\Sheets\P171189-sht-xsht-willow.dgn

USER NAME = pdw-agrosal

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 8/7/2020

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: 1

SHEET OF SHEETS STA. 51+00.00 TO STA. 54+00.00

F.A.P. RTE. 305

SECTION (1719-N14)

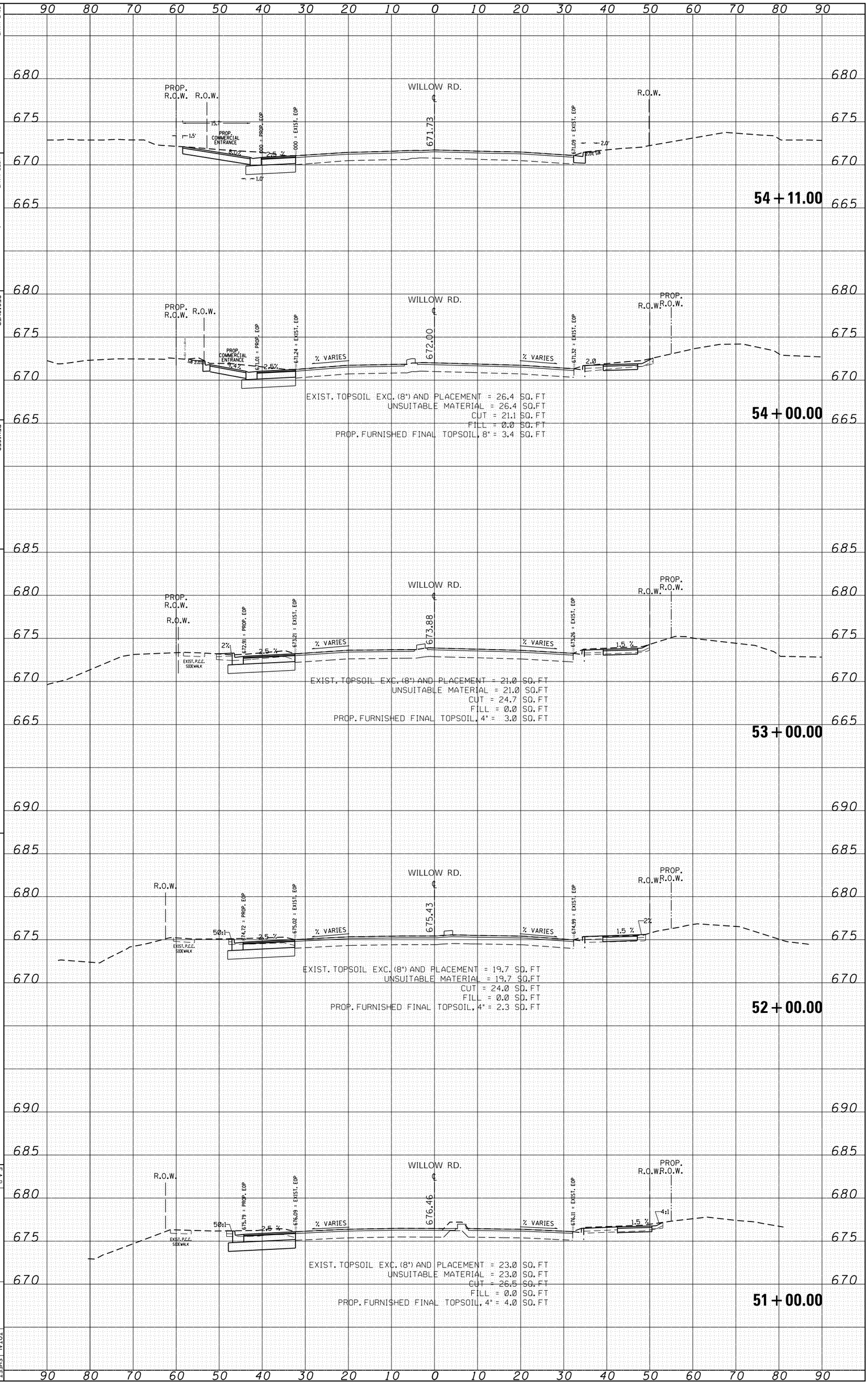
COUNTY COOK

TOTAL SHEETS 80

SHEET NO. 79

ILLINOIS FED. AID PROJECT

CONTRACT NO. 60Y23



FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\P171109\CADDetailing\P171H09-sht-xssht-Willow.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WILLOW ROAD AT PFINGSTEN ROAD

SCALE: | SHEET OF SHEETS | STA. 54+50.00 | TO STA. 57+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1719-N(14)	COOK	80	80
		CONTRACT NO. 60Y23		
	ILLINOIS	FED. AID PROJECT		