

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 62N35	
D-91-086-21				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE VILLAGE OF LANSING AND CITY OF CALUMET CITY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 358: US ROUTE 6 / ILLINOIS ROUTE 83 (TORRENCE AVENUE)
AT 167TH STREET / 170TH STREET

SECTION: 2021-002-TS&SW
PROJECT: HSIP-LXMB(226)

INTERSECTION IMPROVEMENT AND
TRAFFIC SIGNAL MODERNIZATION

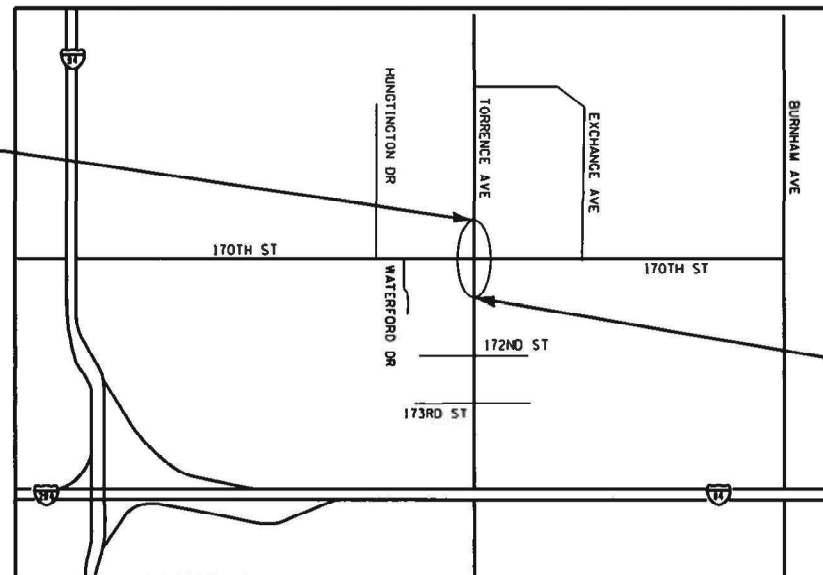
COOK COUNTY
C-91-103-21

TRAFFIC DATA

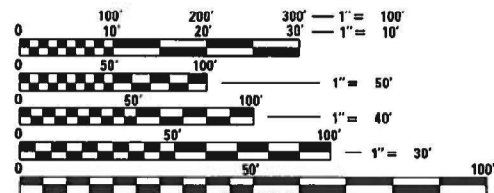
US RTE 6 / IL RTE 83 (TORRENCE AVENUE)
OTHER PRINCIPAL ARTERIAL
EXISTING ADT (2019) = 22,100
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH



PROJECT ENDS
STATION 404 + 07



PROJECT BEGINS
STATION 394 + 00



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

LOCATION MAP
NOT TO SCALE

GROSS LENGTH OF PROJECT = 1,007 FT. = 0.19 MILE
NET LENGTH OF PROJECT = 1,007 FT. = 0.19 MILES

PROJECT ENGINEER: DAN WILGREEN, P.E. (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL, P.E. (847) 705-4247

CONTRACT NO. 62N35

MILLENNIA PROFESSIONAL SERVICES
THOMAS V. NGO, P.E.
062-058379

THOMAS V. NGO
10/14/2021
SIGNATURE AND SEAL APPLIES
TO DRWG NO 1 TO 29, 103-110



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 19, 2021
Joseph Rios
REGIONAL ENGINEER
December 10, 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
December 10, 2021
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 424001-11 CURB RAMPS FOR SIDEWALKS, PERPENDICULAR
- 424021-06 DEPRESSED CURB RAMPS FOR SIDEWALKS
- 424026-03 ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
- 442201-03 CLASS C AND D PATCHES
- 602301-04 INLET -TYPE A
- 604036-03 GRATE TYPE B
- 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < OR = 40MPH
- 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 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
- 720016-04 MAST ARM MOUNTED STREET NAME SIGNS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT

LIST OF ILLINOIS DOT HIGHWAY STANDARDS (CONT.)

- 780001-05 TYPICAL PAVEMENT MARKINGS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-03 HANDHOLES
- 814006-03 DOUDLE HANDHOLES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 877001-08 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 878001-11 CONCRETE FOUNDATION DETAILS
- 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, VILLAGE OF LANSING, AND CITY OF CALUMET CITY.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. 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.
5. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, 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 STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
10. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KAPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
11. TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD TECHNICIAN, PATRICE HARRIS, AT PATRICE.HARRIS@ILLINOIS.GOV
12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
13. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
14. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.
15. 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 GREATER THAN 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 1:3 (V:H).
16. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

GENERAL NOTES (CONT.)

17. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE IV AND IT'S REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
18. THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).
19. SIDEWALK RAMPS MODIFICATIONS WITHIN THE LIMITS OF THE PROJECT SHALL CONFORM TO THE CURRENT ADA REQUIREMENTS AND APPLICABLE STATE HIGHWAY STANDARDS, OR AS DIRECTED BY THE ENGINEER.
20. THE COST OF SAW CUTTING SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS REMOVAL PAY ITEMS.
21. THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING OR PROPOSED DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY; BUT, SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE SEWER ITEMS.
22. THE COST TO REMOVE THE EXISTING GRAVEL ALONG THE EDGE OF PAVEMENT IS INCLUDED IN THE COST OF EARTH EXCAVATION.
23. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO THE CITY OF CALUMET CITY. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
24. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES TO PROTECT WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED, OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
25. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
26. TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES TO PREVENT THE THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXCAVATION IS WITHIN WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING OF TREES SHOULD BEGIN IMMEDIATELY AFTER ROOT PRUNING OF THE TREES HAS OCCURRED.
27. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, TO SCHEDULE A WALK THROUGH TO DETERMINE TREES TREES FOR PROTECTION, PRUNING, AND ROOT PRUNING AT LEAST 14 DAYS PRIOR TO THE COMMENCEMENT OF TREE REMOVAL.

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT



USER NAME = jpham	DESIGNED - TN	REVISED -
	DRAWN - JP	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MK	REVISED -
PLOT DATE = 10/25/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF IDOT HIGHWAY STANDARDS,
GENERAL NOTES AND COMMITMENTS
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST**

SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A	F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 2
			FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
			CONTRACT NO. 62N35				

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
				ROADWAY 90% FED 10% STATE	SIDEWALK 100% STATE	SS CLEANING 100% STATE	TRAFFIC SIGNALS 90% FED 10% STATE	EVP 100% TOLL CREDIT
				0004	0021	0004	0021	0021
20101000	TEMPORARY FENCE	FOOT	151	151				
20101200	TREE ROOT PRUNING	EACH	7	7				
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	7	7				
20200100	EARTH EXCAVATION	CU YD	110	110				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	748	748				
25200110	SODDING, SALT TOLERANT	SO YD	748	748				
25200200	SUPPLEMENTAL WATERING	UNIT	11	11				
28000510	INLET FILTERS	EACH	1	1				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5461	5461				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	4028	4028				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	12	12				
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	340	340				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	133	133				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	35	35				
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	793	793				
42001300	PROTECTIVE COAT	SO YD	769	346	423			
42300600	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 10 INCH	SO YD	134	134				

* SPECIALTY ITEM



USER NAME = jpham	DESIGNED - TN	REVISED -
PLOT SCALE = 2.0000" = 1'-0"	DRAWN - JP	REVISED -
PLOT DATE = 10/25/2021	CHECKED - MK	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST		
SCALE: N/A	SHEET NO. 1 OF 8 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N35	

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
				ROADWAY 90% FED 10% STATE	SIDEWALK 100% STATE	SS CLEANING 100% STATE	TRAFFIC SIGNALS 90% FED 10% STATE	EVP 100% TOLL CREDIT
				0004	0021	0004	0021	0021
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4619	1444	3175			
42400800	DETECTABLE WARNINGS	SQ FT	171	115	56			
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	8091	8091				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	134	134				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	336	336				
44000600	SIDEWALK REMOVAL	SQ FT	697	697				
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/2"	SQ YD	244	244				
44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	4	4				
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	120	120				
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	48	48				
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	72	72				
55100500	STORM SEWER REMOVAL 12"	FOOT	8	8				
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1				
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	104	104				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	228	228				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	110	110				

* SPECIALTY ITEM



USER NAME = jpham	DESIGNED - TN	REVISED -
PLOT SCALE = 2.0000" / 1"	DRAWN - JP	REVISED -
PLOT DATE = 10/25/2021	CHECKED - MK	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST		
SCALE: N/A	SHEET NO. 2 OF 8 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	4
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N35	

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
				ROADWAY 90% FED 10% STATE	SIDEWALK 100% STATE	SS CLEANING 100% STATE	TRAFFIC SIGNALS 90% FED 10% STATE	EVP 100% TOLL CREDIT
				0004	0021	0004	0021	0021
66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2				
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1				
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1				
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12				
67100100	MOBILIZATION	L SUM	1	1				
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2465	2465				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4941	4941				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	219	219				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	7953	7953				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	2227	2227				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	FOOT	2043	2043				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	374	374				
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT TYPE III TAPE	FOOT	12811	12811				
72000200	SIGN PANEL - TYPE 2	SQ FT	40				40	

• SPECIALTY ITEM



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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST			
SCALE: N/A	SHEET NO. 3 OF 8 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N35	

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
				ROADWAY 90% FED 10% STATE	SIDEWALK 100% STATE	SS CLEANING 100% STATE	TRAFFIC SIGNALS 90% FED 10% STATE	EVP 100% TOLL CREDIT
				0004	0021	0004	0021	0021
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	109	109				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3976	3976				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1113	1113				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1021	1021				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	187	187				
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	73	73				
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	4241	4241				
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1022	1022				
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	153	153				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	102	102				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	90	90				
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	16657	16657				
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1475				1475	
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	160				160	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	504				504	

* SPECIALTY ITEM



USER NAME = jpham	DESIGNED - TN	REVISED -
PLOT SCALE = 2.0000" / in.	DRAWN - JP	REVISED -
PLOT DATE = 10/19/2021	CHECKED - MK	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST**

SCALE: N/A SHEET NO. 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	6
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62N35	

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
				ROADWAY 90% FED 10% STATE	SIDEWALK 100% STATE	SS CLEANING 100% STATE	TRAFFIC SIGNALS 90% FED 10% STATE	EVP 100% TOLL CREDIT
				0004	0021	0004	0021	0021
81400200	HEAVY-DUTY HANDHOLE	EACH	2				2	
81400300	DOUBLE HANDHOLE	EACH	2				2	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3				3	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1				1	
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4381				4381	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1450				1450	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1840				1840	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2520				2520	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1766				1766	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1907				1907	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	65				65	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	960				960	
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4				4	
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1				1	
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2				2	
87700340	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1				1	

• SPECIALTY ITEM



USER NAME = jpham	DESIGNED - TN	REVISED -
PLOT SCALE = 2.0000" / in.	DRAWN - JP	REVISED -
PLOT DATE = 10/25/2021	CHECKED - MK	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST	
SCALE:	SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	7
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N35	

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
				ROADWAY 90% FED 10% STATE	SIDEWALK 100% STATE	SS CLEANING 100% STATE	TRAFFIC SIGNALS 90% FED 10% STATE	EVP 100% TOLL CREDIT
				0004	0021	0004	0021	0021
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20				20	
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4				4	
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43				43	
* 87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21				21	
* 87900200	DRILL EXISTING HANDHOLE	EACH	3				3	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8				8	
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4				4	
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4				4	
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4				4	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8				8	
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12				12	
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	6				6	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	340				340	
* 88700200	LIGHT DETECTOR	EACH	2					2
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1					1
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	8				8	
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1				1	

* SPECIALTY ITEM



USER NAME = jpham
 PLOT SCALE = 2.0000" = 1'-0"
 PLOT DATE = 10/25/2021

DESIGNED - TN
 DRAWN - JP
 CHECKED - MK
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST

SCALE: SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	8
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N35	

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
				ROADWAY	SIDEWALK	SS CLEANING	TRAFFIC SIGNALS	EVP
				90% FED 10% STATE	100% STATE	100% STATE	90% FED 10% STATE	100% TOLL CREDIT
			URBAN	0004	0021	0004	0021	0021
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8762				8762	
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1				1	
* 89502380	REMOVE EXISTING HANDHOLE	EACH	11				11	
* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1				1	
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9				9	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	8	8				
K0036120	MULCH PLACEMENT 4"	SQ YD	25	25				
X0323117	LANDSCAPING GRAVEL	SQ YD	17	17				
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	343					343
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	2882				2882	
* X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1				1	
* X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1				1	
* X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2				2	
X1800024	DECORATIVE STONE	SQ FT	15	15				
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	6			6		
X6030205	FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)	EACH	1	1				

* SPECIALTY ITEM



USER NAME = jpham	DESIGNED - TN	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN - JP	REVISED -
PLOT DATE = 10/25/2021	CHECKED - MK	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST		
SCALE:	SHEET NO. 7 OF 8 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N35	

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
				ROADWAY 90% FED 10% STATE	SIDEWALK 100% STATE	SS CLEANING 100% STATE	TRAFFIC SIGNALS 90% FED 10% STATE	EVP 100% TOLL CREDIT
				0004	0021	0004	0021	0021
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	5	5				
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1				1	
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	4381				4381	
Z0001110	GAS VALVE TO BE ADJUSTED	EACH	1	1				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	2	2				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1			1		
Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	1	1				
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	1	1				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	190	190				
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1				1	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1				1	
Z0026650	TRANSPLANTED SALVAGE PERENNIALS	EACH	6	6				
Z0076600	TRAINEES	HOURS	500	500				
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500				

• SPECIALTY ITEM

0042



USER NAME = jpham
 PLOT SCALE = 2.0000" / in.
 PLOT DATE = 10/25/2021

DESIGNED - TN
 DRAWN - JP
 CHECKED - TN
 DATE -

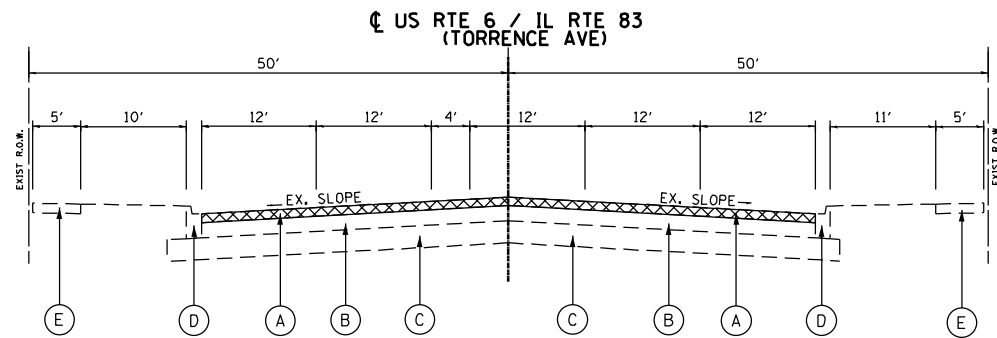
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

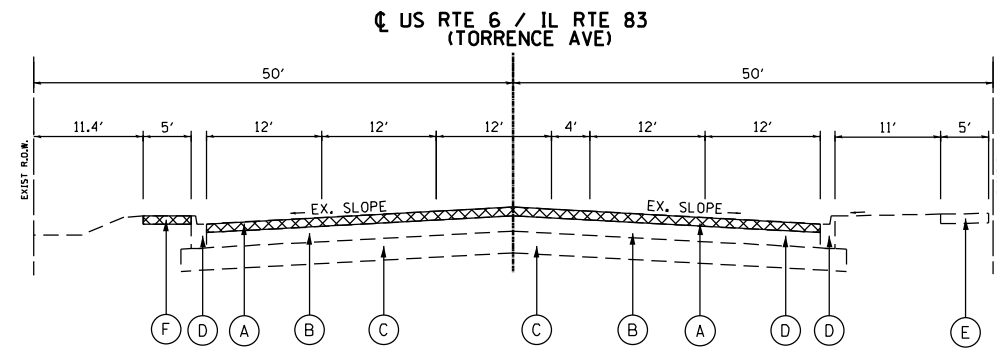
SUMMARY OF QUANTITIES
 US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST

SCALE: SHEET NO. 8 OF 8 SHEETS STA. TO STA.

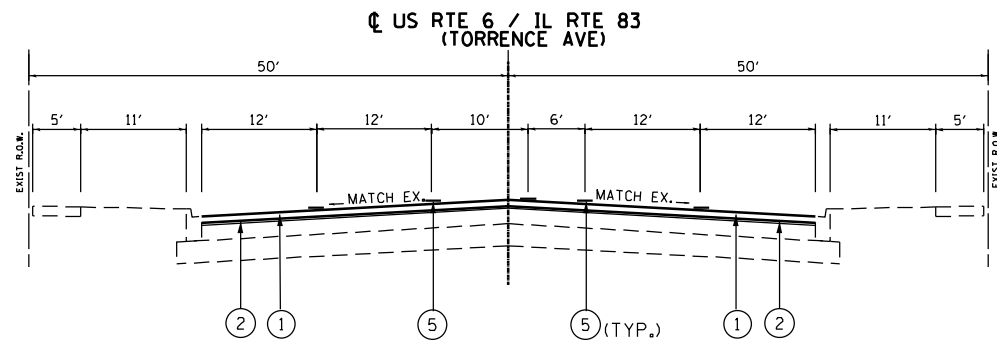
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	61	10
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N35	



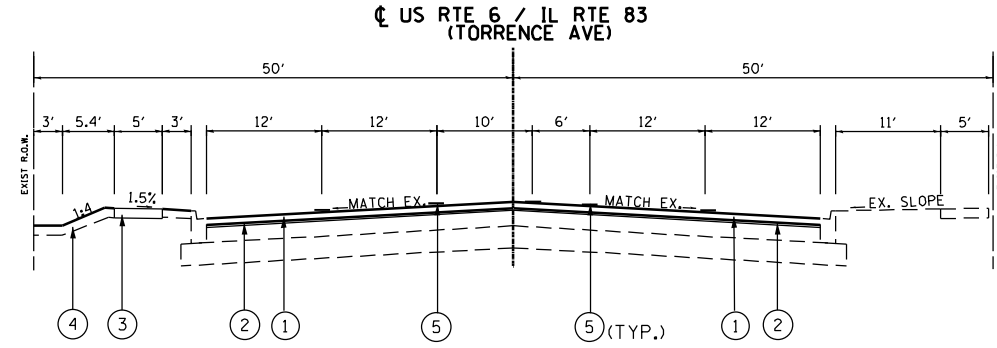
**EXISTING TYPICAL SECTION
US RTE 6 / IL RTE 83 (TORRENCE AVE)**
STA. 394+00 TO STA. 400+00



**EXISTING TYPICAL SECTION
US RTE 6 / IL RTE 83 (TORRENCE AVE)**
STA. 400+00 TO STA. 404+07



**PROPOSED TYPICAL SECTION
US RTE 6 / IL RTE 83 (TORRENCE AVE)**
STA. 394+00 TO STA. 400+00



**PROPOSED TYPICAL SECTION
US RTE 6 / IL RTE 83 (TORRENCE AVE)**
STA. 400+00 TO STA. 404+07

- EXISTING LEGEND**
- ⊗ REMOVAL
 - (A) HMA SURFACE REMOVAL 2 1/2"
 - (B) EXISTING PCC PAVEMENT, +/- 9"
 - (C) EXISTING SUB-BASE
 - (D) EXISTING CURB AND GUTTER, B-6.12
 - (E) EXISTING PCC SIDEWALK
 - (F) EXISTING AGGREGATE SIDEWALK

- PROPOSED LEGEND**
- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
 - (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
 - (3) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
 - (4) TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT
 - (5) PAVEMENT MARKING

HOT MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	QMP TYPE
RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"	4% @ 70 GYR.	QC/QA
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 GYR.	QC/QA
PATCHING		
CLASS D PATCHES (HMA IL-19 mm)	4% @ 70 GYR.	QC/QA
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

MIXTURE NOTES:

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES 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 RECLAIMED MATERIALS SPECIFICATIONS.
- THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50

PATCHING SEQUENCE NOTES

- CONTRACTOR IS TO PERFORM PAVEMENT PATCHING, AS DIRECTED BY ENGINEER, PRIOR TO MILLING OPERATION

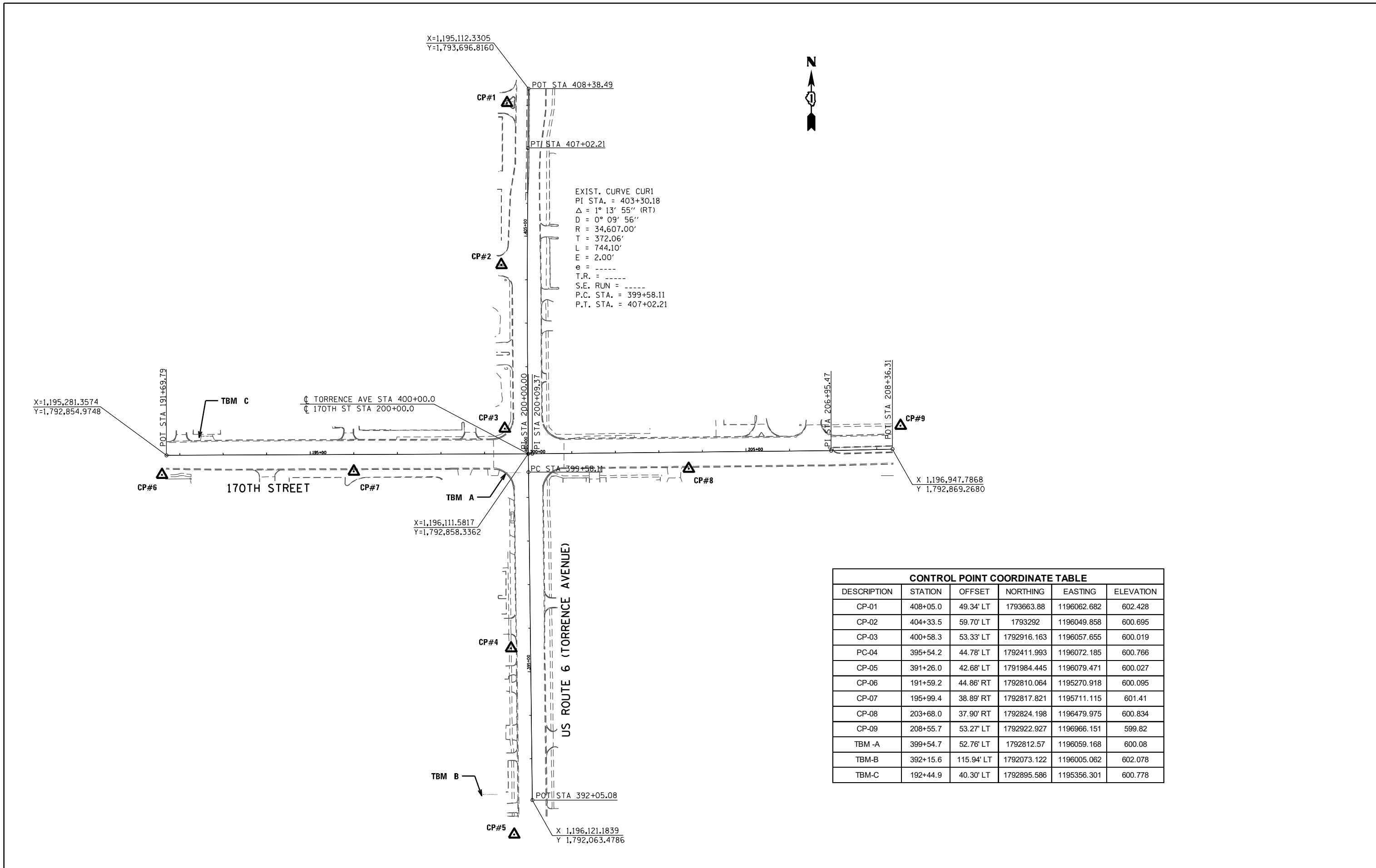


USER NAME = jpham	DESIGNED - TN	REVISED -
PLOT SCALE = 20,000' / in.	DRAWN - JP	REVISED -
PLOT DATE = 10/25/2021	CHECKED - MK	REVISED -
	DATE -	REVISED -

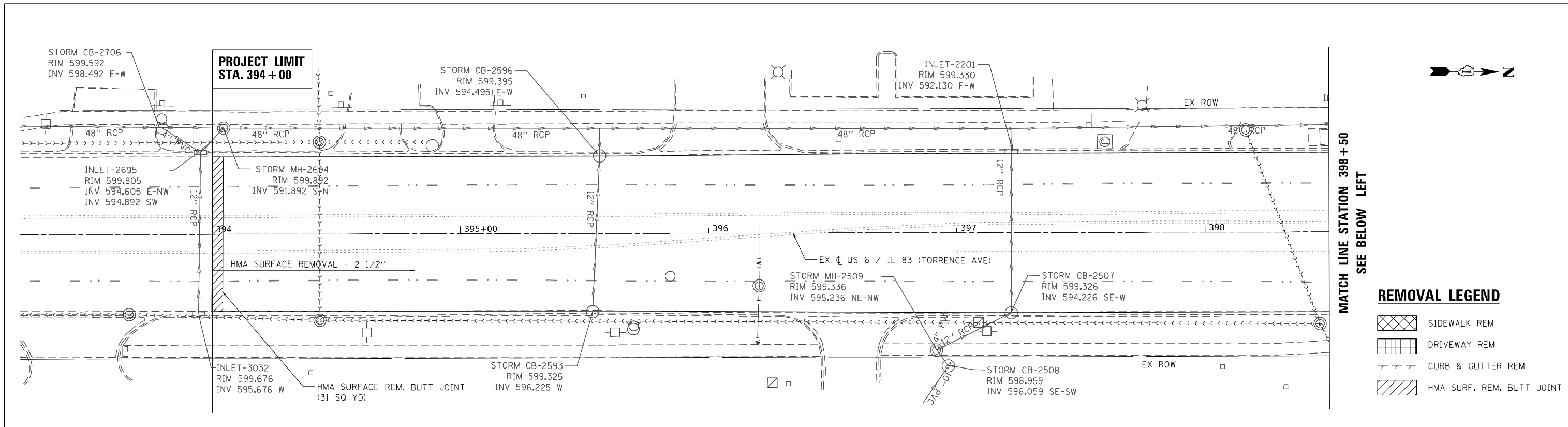
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
US RTE 6 / IL RTE 83 (TORRENCE AVE) AT 167TH ST / 170TH ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	11
CONTRACT NO. 62N35				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

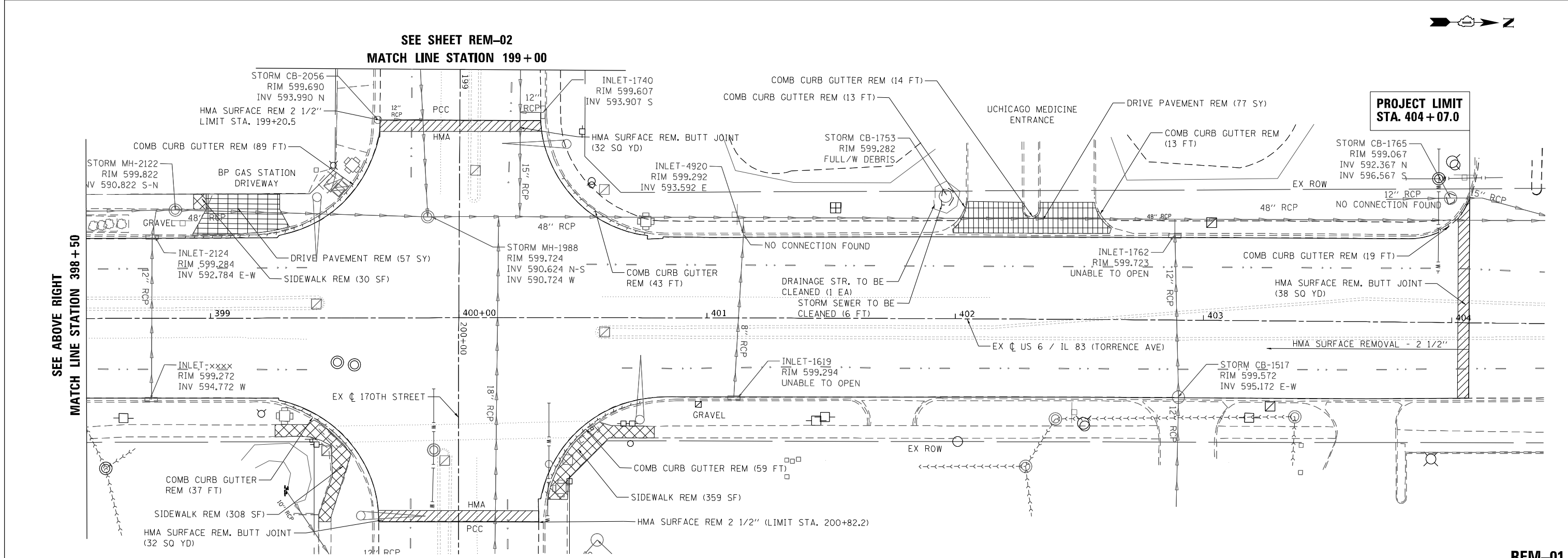


CONTROL POINT COORDINATE TABLE					
DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	ELEVATION
CP-01	408+05.0	49.34' LT	1793663.88	1196062.682	602.428
CP-02	404+33.5	59.70' LT	1793292	1196049.858	600.695
CP-03	400+58.3	53.33' LT	1792916.163	1196057.655	600.019
PC-04	395+54.2	44.78' LT	1792411.993	1196072.185	600.766
CP-05	391+26.0	42.68' LT	1791984.445	1196079.471	600.027
CP-06	191+59.2	44.86' RT	1792810.064	1195270.918	600.095
CP-07	195+99.4	38.89' RT	1792817.821	1195711.115	601.41
CP-08	203+68.0	37.90' RT	1792824.198	1196479.975	600.834
CP-09	208+55.7	53.27' LT	1792922.927	1196966.151	599.82
TBM -A	399+54.7	52.76' LT	1792812.57	1196059.168	600.08
TBM-B	392+15.6	115.94' LT	1792073.122	1196005.062	602.078
TBM-C	192+44.9	40.30' LT	1792895.586	1195356.301	600.778

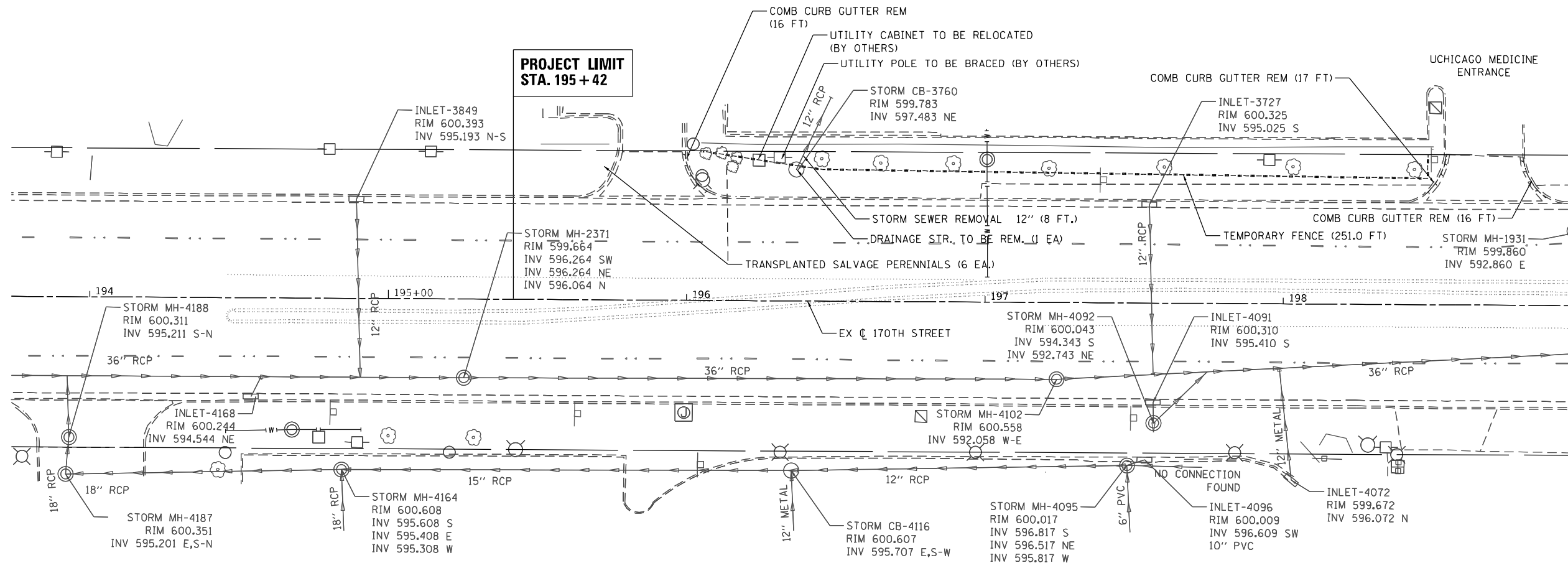


REMOVAL LEGEND

	SIDEWALK REM
	DRIVEWAY REM
	CURB & GUTTER REM
	HMA SURF. REM. BUTT JOINT



	USER NAME = jpham	DESIGNED - TN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST			F.A.P. RTE. = 358	SECTION = 2021-002-TS&SW	COUNTY = COOK	TOTAL SHEETS = 62	SHEET NO. = 13	
	PLOT SCALE = 40,000' / in.	DRAWN - JP	REVISED -		SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
	PLOT DATE = 10/21/2021	CHECKED - MK	REVISED -		CONTRACT NO. 62N35								
		DATE -	REVISED -		P:\2019\ME19003_VerVar_PHI\W031_62N35_US6_IL83_Torrence\01-CADD\02-Shts\13-0162N35-sht-Removal-01.dgn								



MATCH LINE STATION 199+00
SEE SHEET REM-01

REMOVAL LEGEND

- SIDEWALK REM
- DRIVEWAY REM
- CURB & GUTTER REM
- HMA SURF. REM. BUTT JOINT



USER NAME = jpham	DESIGNED - TN	REVISED -
	DRAWN - JP	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - MK	REVISED -
PLOT DATE = 10/14/2021	DATE -	REVISED -

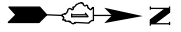
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

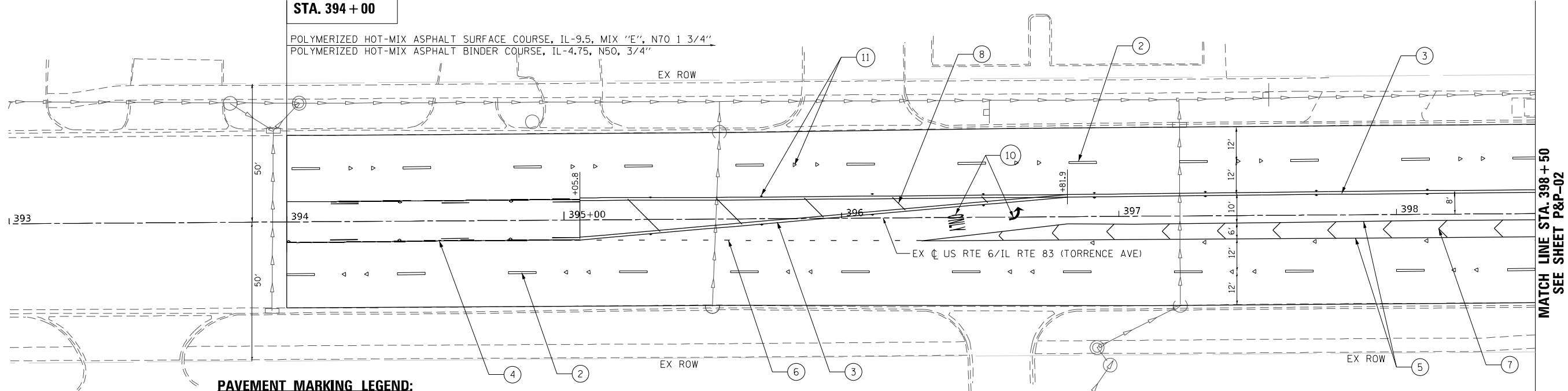
REM-02				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	14
CONTRACT NO. 62N35				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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**PROJECT LIMIT
STA. 394 + 00**

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70 1 3/4"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"



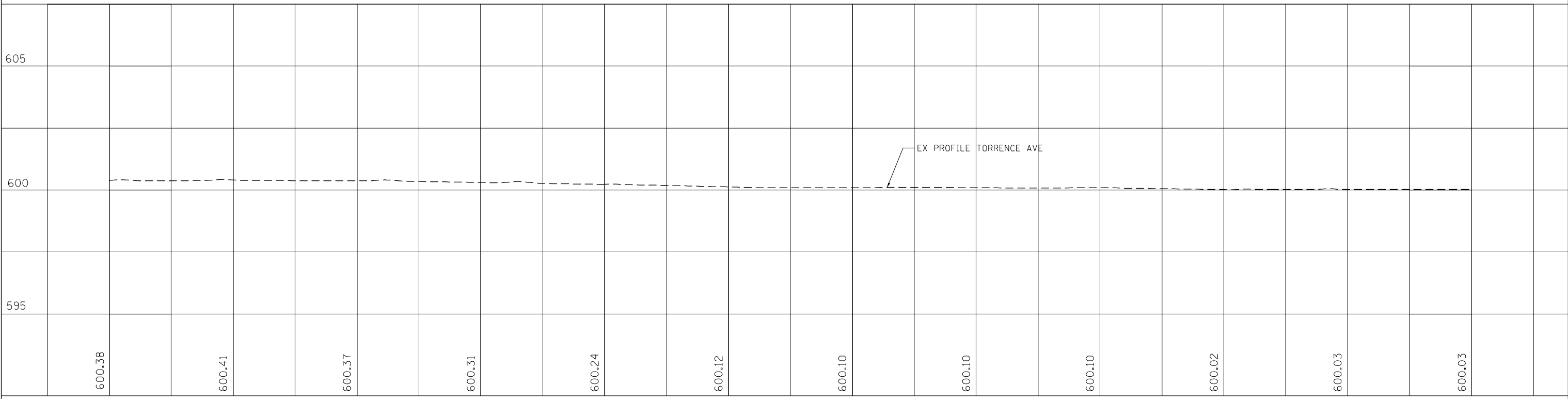
PAVEMENT MARKING LEGEND:

- ① 4" WHITE SOLID LINE
- ② 4" WHITE LANE LINE (30' SKIP 10' DASH)
- ③ 4" DOUBLE YELLOW @ 11" C-C
- ④ 4" SOLID AND SKIP DASH YELLOW @ 11" C-C
- ⑤ 6" WHITE SOLID LINE
- ⑥ 6" WHITE (6' SKIP 2' DASH)
- ⑦ 12" WHITE CHEVRON LINE
- ⑧ 12" YELLOW LINE
- ⑨ 24" WHITE STOP BAR
- ⑩ LETTERS AND SYMBOLS (TYP)
- ⑪ RAISED REFLECTIVE PAVEMENT MARKER

NOTE: PAVEMENT MARKINGS WITHIN HMA LIMITS ARE THERMOPLASTIC AND WITHIN PCC LIMITS ARE POLYUREA.

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	PAVEMENT MARKING CHECKED	
	LANDSCAPING CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	PAVEMENT MARKING CHECKED	
	LANDSCAPING CHECKED	
	FILE NAME	
	NO.	



P&P-01

393+00	394+00	395+00	396+00	397+00	398+00	398+50
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USER NAME = jpham	DESIGNED - TN	REVISED -
	DRAWN - JP	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - MK	REVISED -
PLOT DATE = 10/19/2021	DATE - 10/19/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE, DRAINAGE, PAVEMENT MARKING, AND LANDSCAPING
US RTE 6 / IL RTE 83 (TORRENCE AVE) AT 167TH ST / 170TH ST**

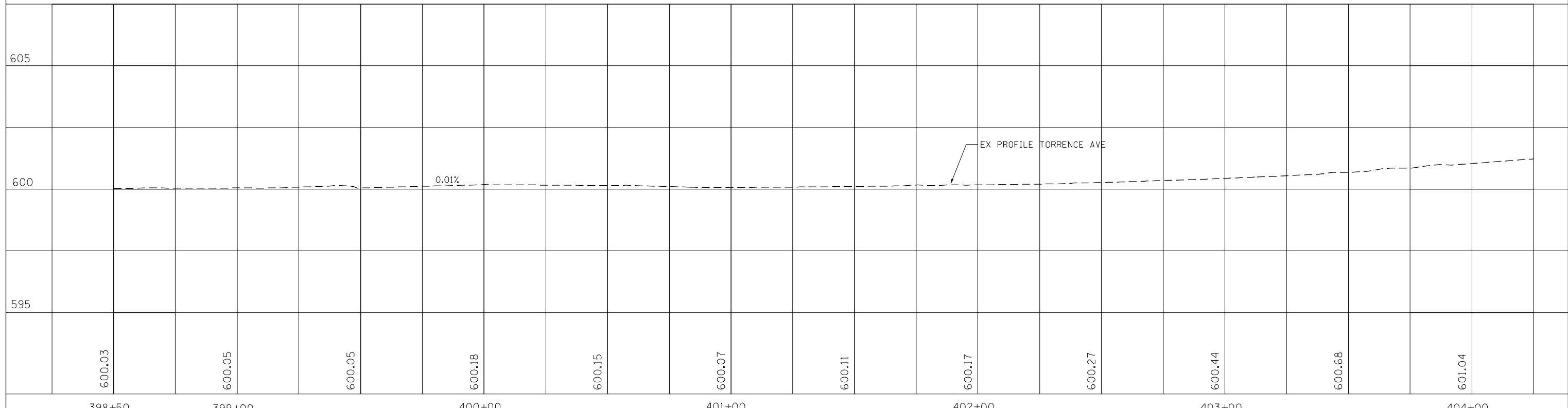
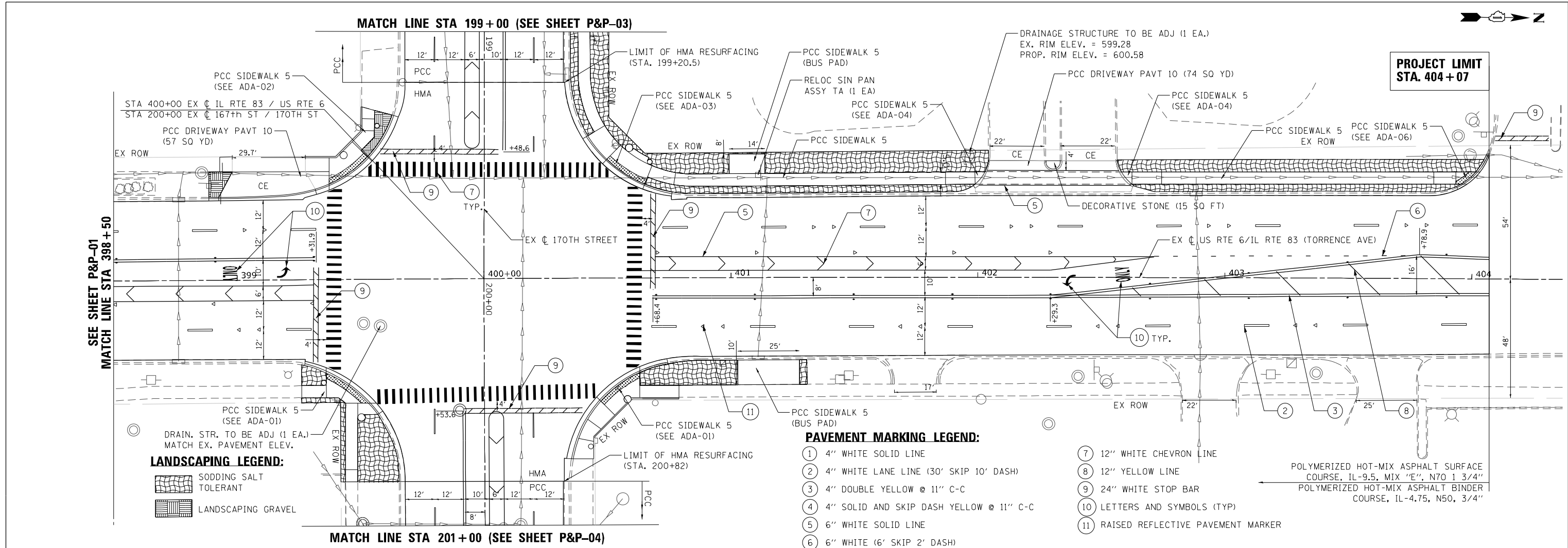
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 15
CONTRACT NO. 62N35				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
NOTE BOOK NO.	FILE NAME	

PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	NOTATIONS CHECKED	

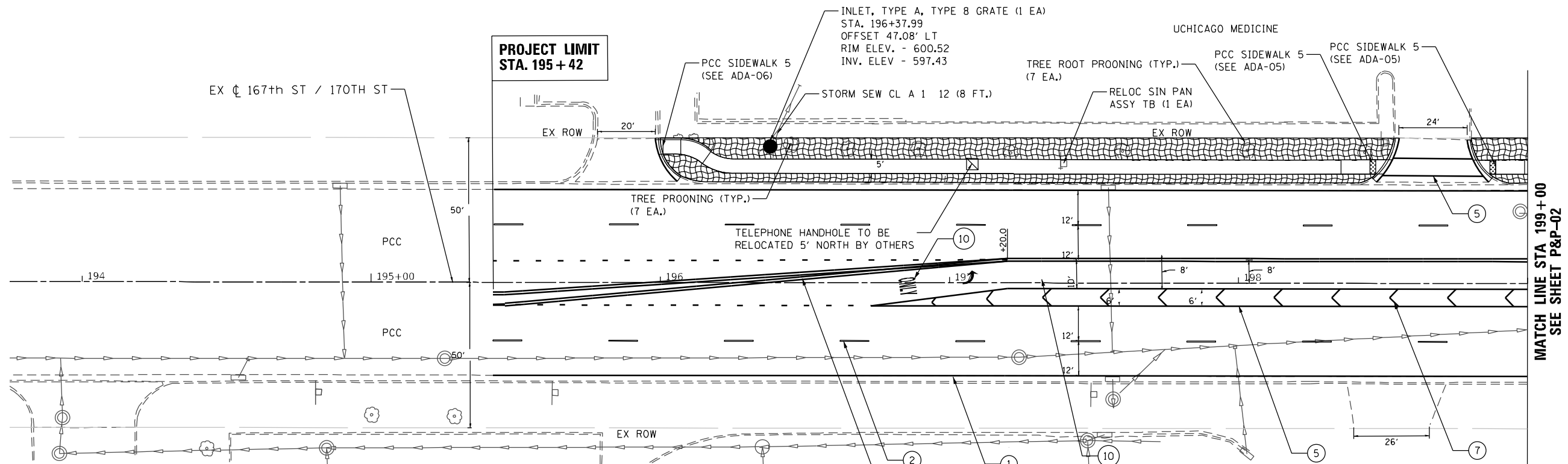


398+50	399+00	400+00	401+00	402+00	403+00	404+00					
600.03	600.05	600.05	600.18	600.15	600.07	600.11	600.17	600.27	600.44	600.68	601.04



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	FILED	FILED
	NO.	NO.

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	STRUCTURE	NOTATIONS
	NO.	NO.



PAVEMENT MARKING LEGEND:

- ① 4" WHITE SOLID LINE
- ② 4" WHITE LANE LINE (30' SKIP 10' DASH)
- ③ 4" DOUBLE YELLOW @ 11" C-C
- ④ 4" SOLID AND SKIP DASH YELLOW @ 11" C-C
- ⑤ 6" WHITE SOLID LINE
- ⑥ 6" WHITE (6' SKIP 2' DASH)
- ⑦ 12" WHITE CHEVRON LINE
- ⑧ 12" YELLOW LINE
- ⑨ 24" WHITE STOP BAR
- ⑩ LETTERS AND SYMBOLS (TYP)
- ⑪ RAISED REFLECTIVE PAVEMENT MARKER

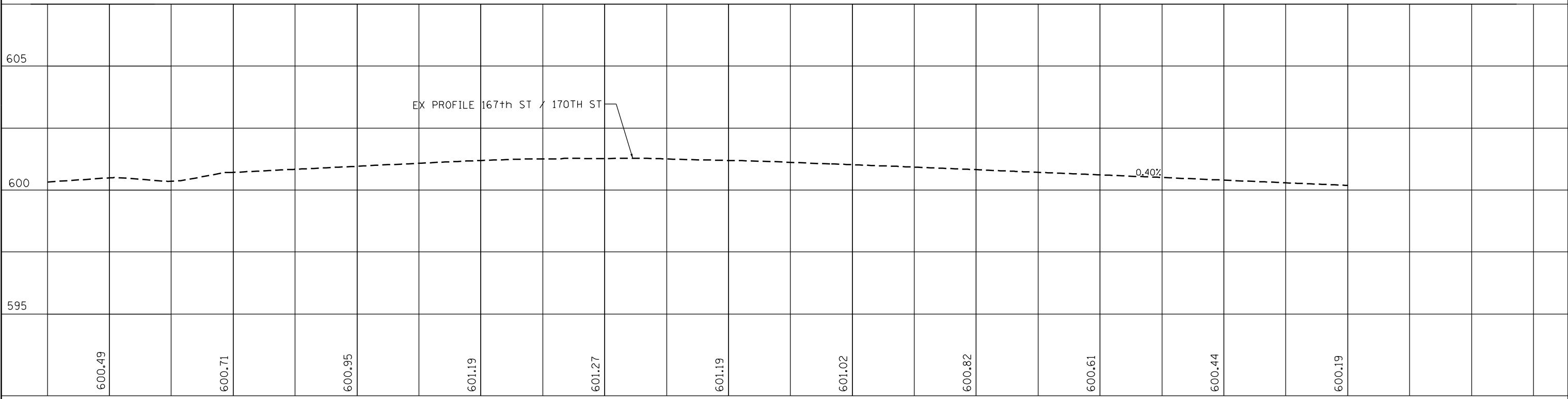
LANDSCAPING LEGEND:

- SODDING SALT TOLERANT
- LANDSCAPING GRAVEL

NOTE: PAVEMENT MARKINGS WITHIN HMA LIMITS ARE THERMOPLASTIC AND WITHIN PCC LIMITS ARE POLYUREA.

MATCH LINE STA 199+00
SEE SHEET P&P-02

P&P-03



194+00	195+00	196+00	197+00	198+00	199+00
600.49	600.71	600.95	601.19	601.27	601.19
601.19	601.02	600.82	600.61	600.44	600.19



USER NAME = jpham	DESIGNED - TN	REVISED -
	DRAWN - JP	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MK	REVISED -
PLOT DATE = 10/20/2021	DATE - 10/20/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE, DRAINAGE, PAVEMENT MARKING, AND LANDSCAPING
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST**

F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 17
CONTRACT NO. 62N35				

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ADA RAMP SCHEDULE OF QUANTITIES												
SHEET NO.	LOCATION	CORNER	20200100	42001300	42400200	42400800	44000500	44000600	60266600	60603800	60605000	Z0001110
			EARTH EXCAVATION	PROTECTIVE COAT	PC CONC SIDEWALK 5	DETECTABLE WARNINGS	COMB CURB GUTTER REM	SIDEWALK REM	VALVE BOX ADJ	COMB CC&G TB6.12	COMB CC&G TB6.24	GAS VALVE ADJUSTED
			CU YD	SQ YD	SQ FT	SQ FT	FOOT	SQ FT	EACH	FOOT	FOOT	EACH
ADA-01	TORRENCE AVE AT 170TH ST	SE	4	45	313	39	37	308			37	
ADA-01	TORRENCE AVE AT 170TH ST	NE	4	61	397	38	59	359			59	1
ADA-02	TORRENCE AVE AT 170TH ST	SW	4	66	368	38	89	30			89	
ADA-03	TORRENCE AVE AT 170TH ST	NW	3	45	297	36	43		1		43	
ADA-03	TORRENCE AVE	ADA-03 TO ADA-04	6	61	550							
ADA-03	170TH ST	ADA-03 TO ADA-05	3	24	215							
ADA-04	TORRENCE AVE (STA. 402+00)	SW	1	10	72		13			13		
ADA-04	TORRENCE AVE (STA. 402+60)	NW	1	10	72		13			13		
ADA-04	TORRENCE AVE	ADA-04 TO ADA-06	6	61	550							
ADA-04	TORRENCE AVE	ISLAND	0	2			14			10		
ADA-05	170TH ST (STA. 198+50)	NW	1	11	70	10	17			17		
ADA-05	170TH ST (STA. 198+85)	NE	1	11	72	10	16			16		
ADA-06	TORRENCE AVE (404+00)	SW	1	11	72		19			19		
ADA-06	170TH ST (196+00)	NE	1	13	95		16			16		
ADA-06	170TH ST	ADA-06 TO ADA-05	12	123	1110							
ADA-03	TORRENCE AVE (401+05 LT)	BUS PAD	2	13	116							
P&P-01	TORRENCE AVE (STA. 401+15 RT)	BUS PAD	3	28	250							
TOTAL			53	594	4619	171	336	697	1	104	228	1



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 PLOT DATE = 10/14/2021

DESIGNED - TN
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 DATE -

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

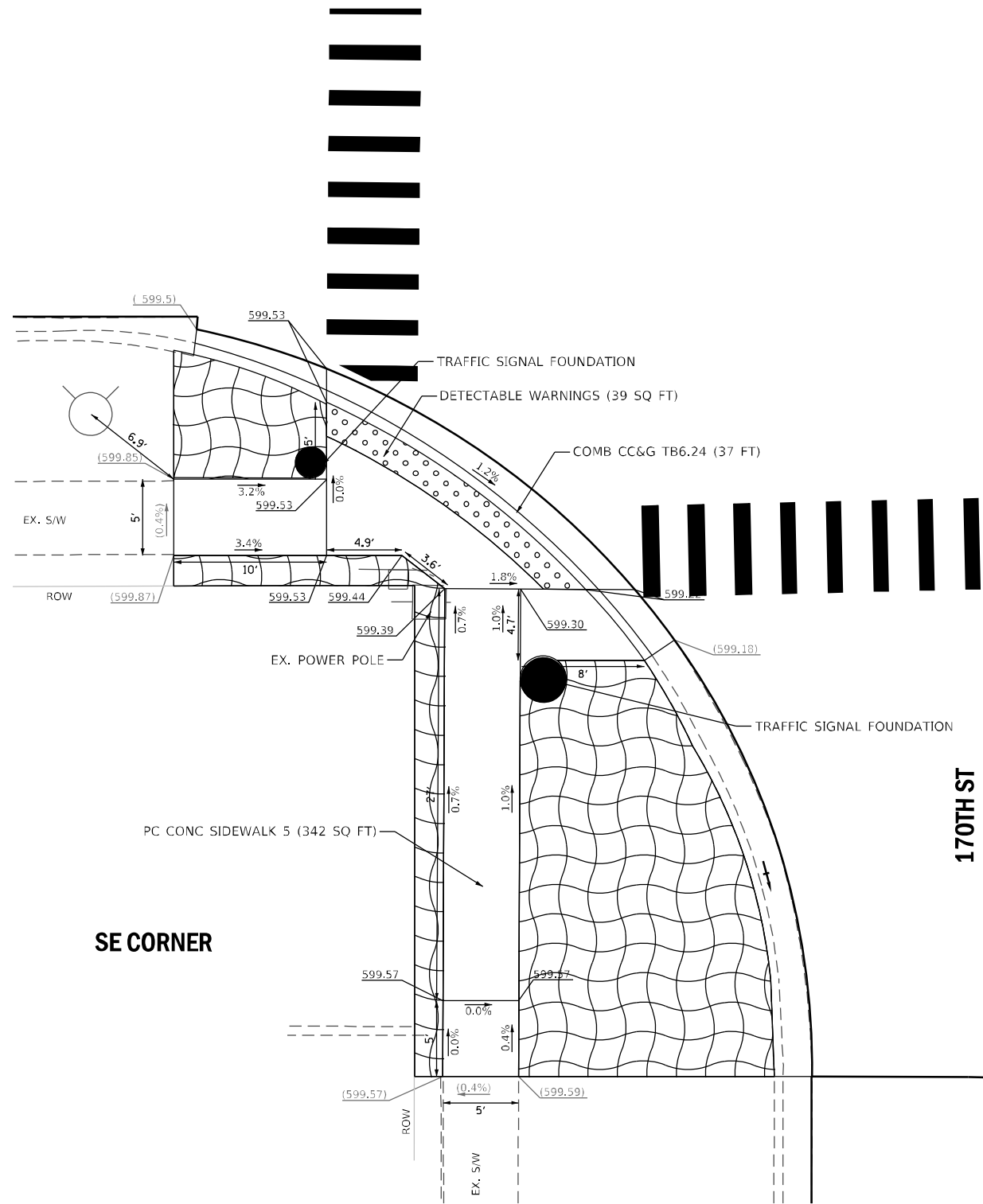
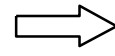
ADA RAMP SCHEDULE OF QUANTITIES
 US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST

SCALE: SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	19
CONTRACT NO. 62N35				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



US RTE 6 / IL RTE 83
(TORRENCE AVE)

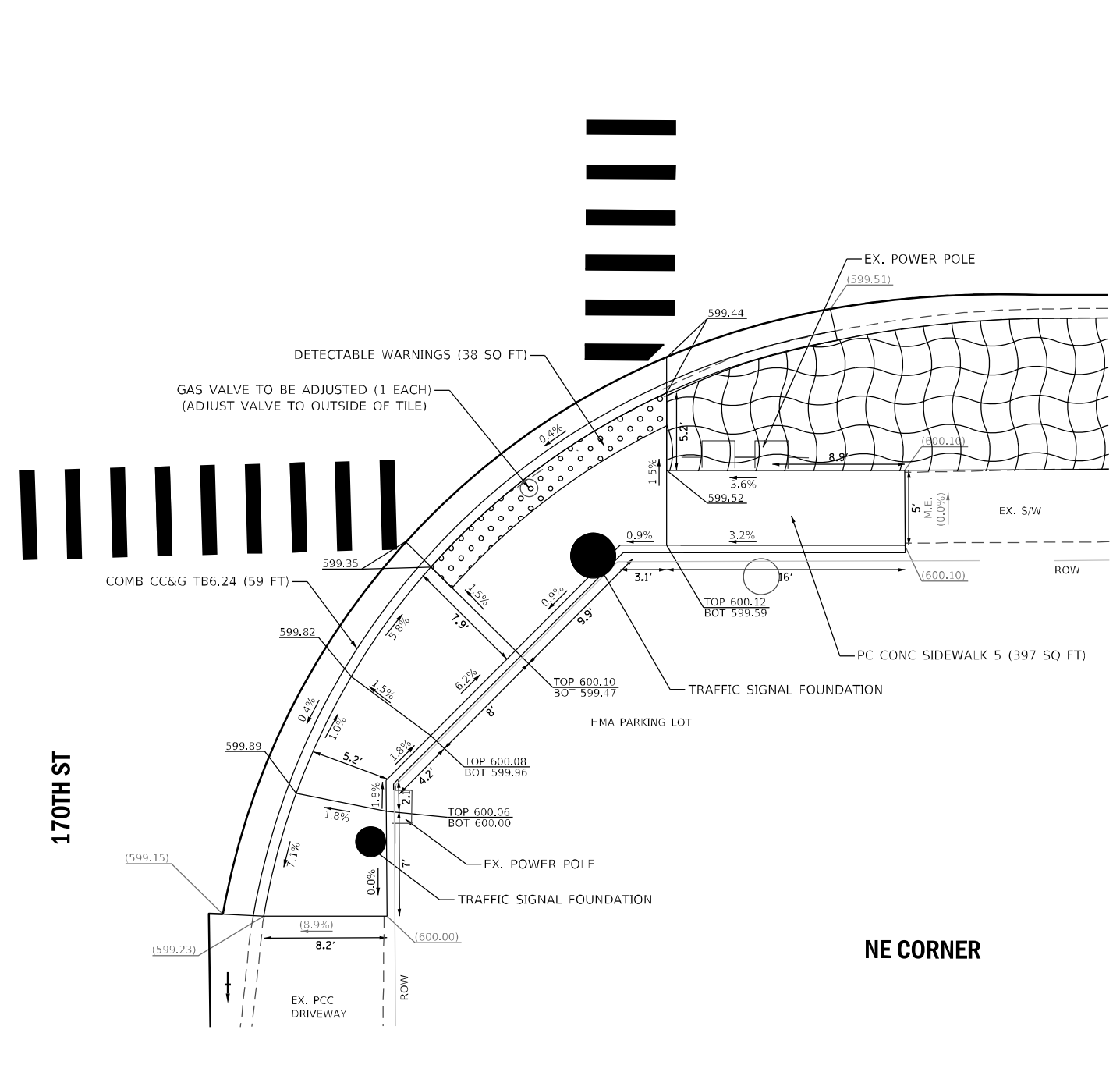
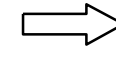


SE CORNER

170TH ST



US RTE 6 / IL RTE 83
(TORRENCE AVE)



NE CORNER

170TH ST



LANDSCAPING GRAVEL



SODDING SALT TOLERANT



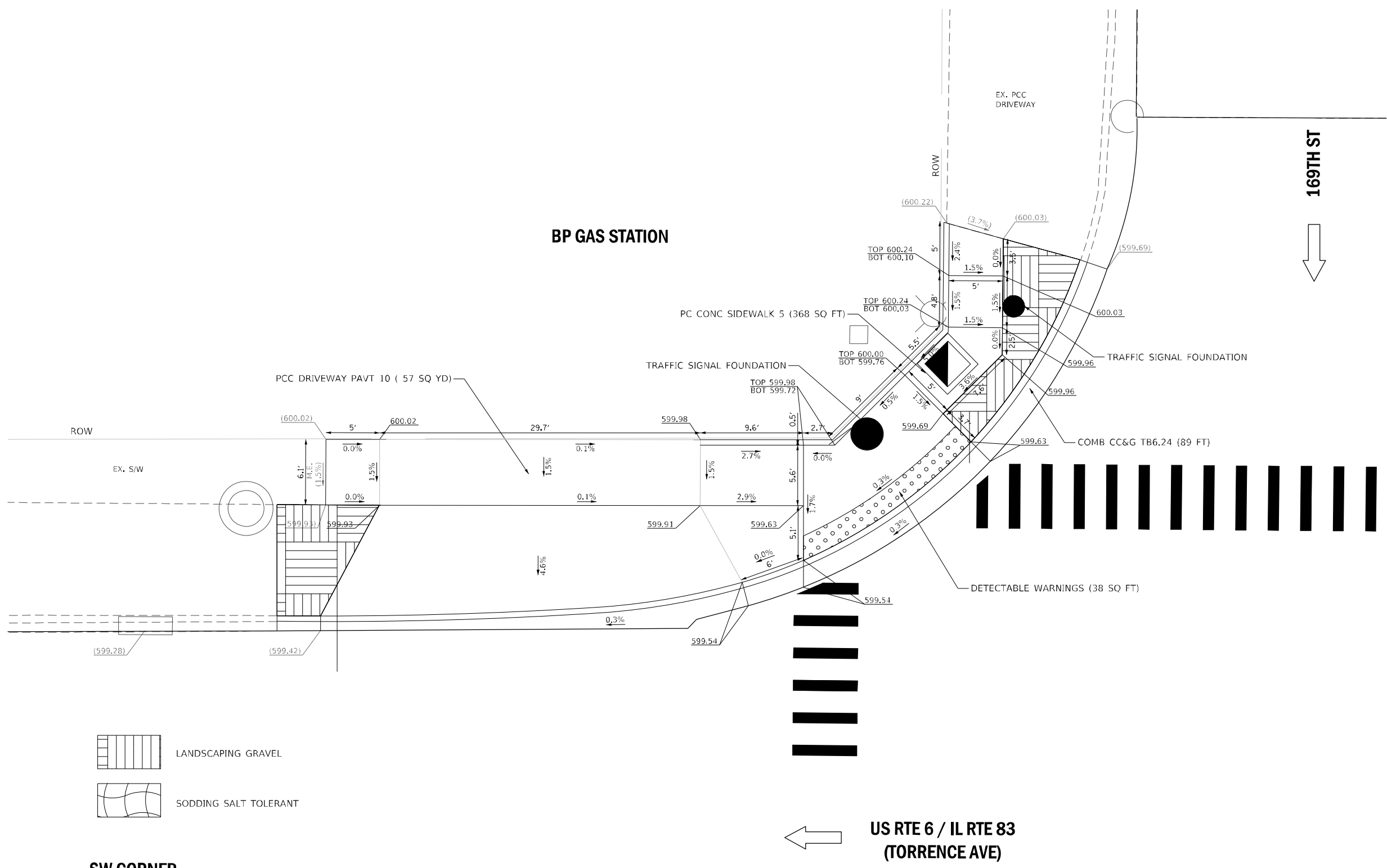
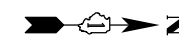
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAILS
US RTE 6 / IL RTE 83 (TORRENCE AVE) AT 167TH ST / 170TH ST

F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 20
CONTRACT NO. 62N35				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ADA-01



SW CORNER



ADA-02

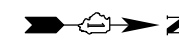


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PLOT DATE = 10/19/2021	DATE -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAILS
US RTE 6 / IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	21
CONTRACT NO. 62N35				

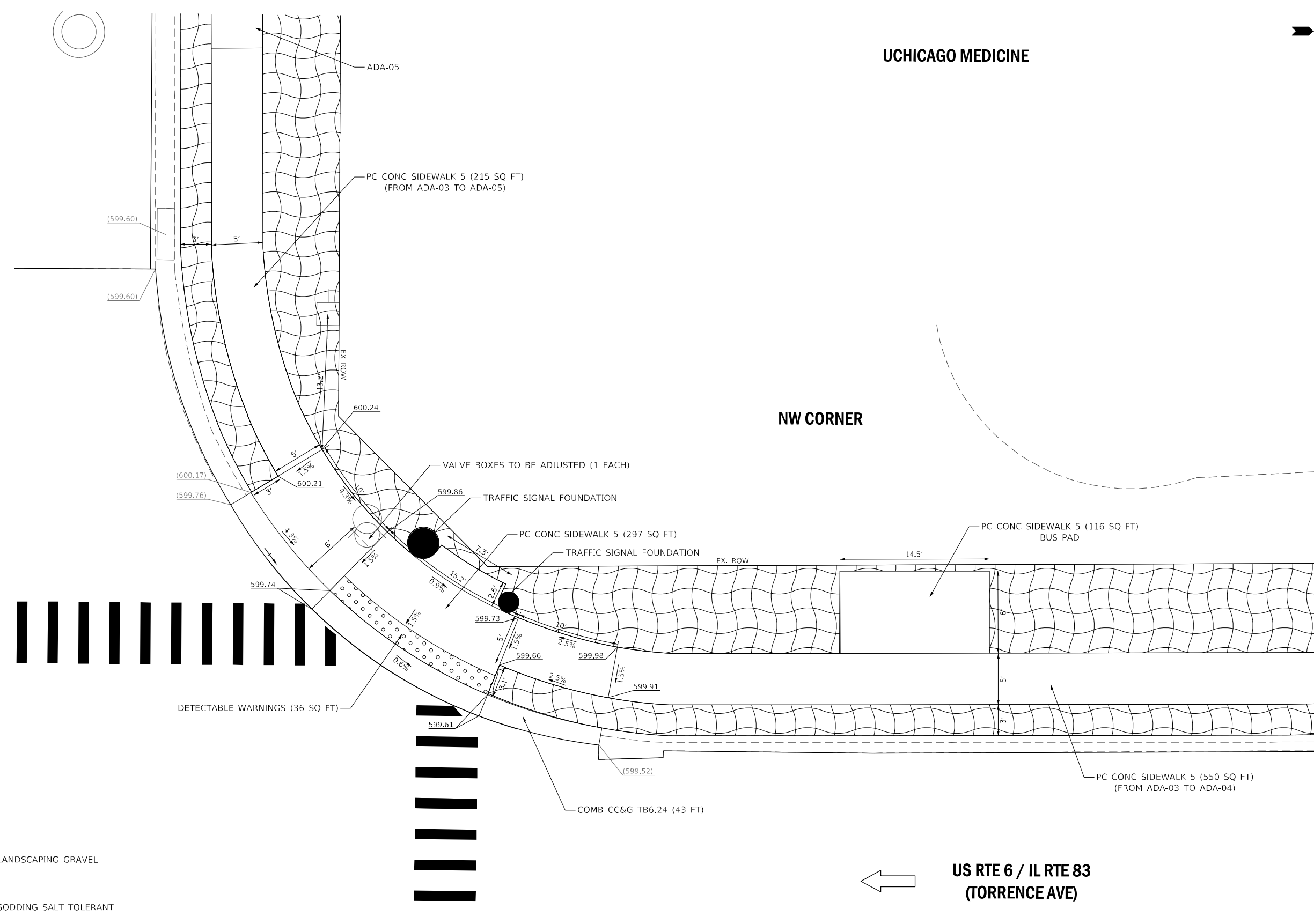


UCHICAGO MEDICINE

170TH ST ↑

NW CORNER

← US RTE 6 / IL RTE 83 (TORRENCE AVE)



-  LANDSCAPING GRAVEL
-  SODDING SALT TOLERANT



USER NAME = jpham	DESIGNED - TN	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - JP	REVISED -
PLOT DATE = 10/21/2021	CHECKED - MK	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAILS	
US RTE 6 / IL RTE 83 (TORRENCE AVE) AT 167TH ST / 170TH ST	
SCALE: -	SHEET NO. - OF - SHEETS STA. TO STA.

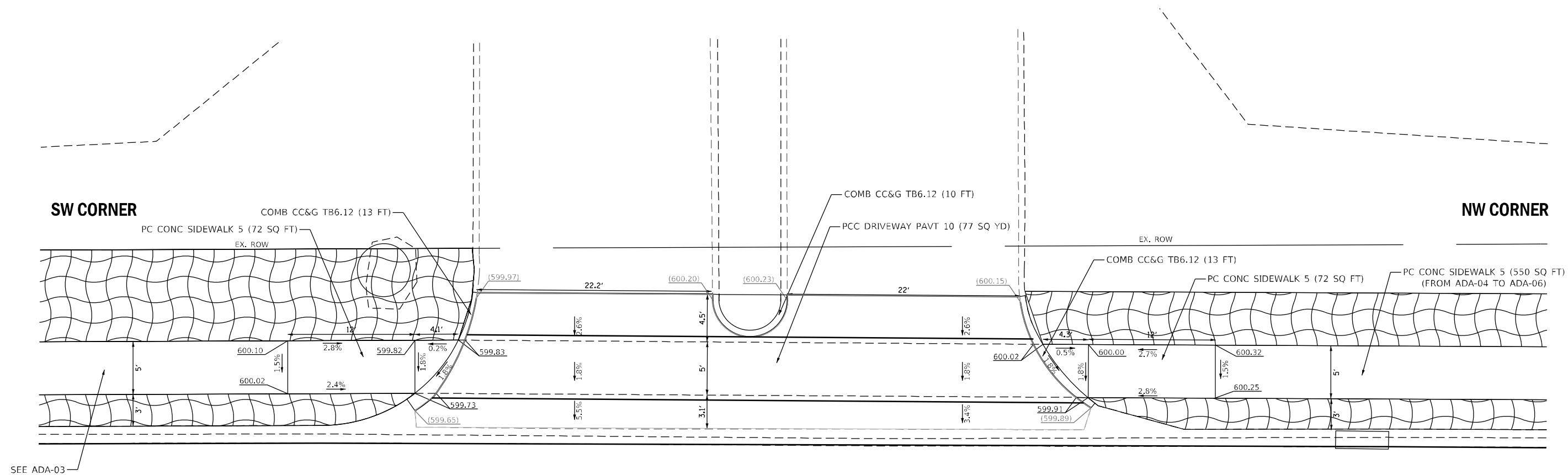
F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358		2021-002-TS&SW	COOK	62	22
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	CONTRACT NO. 62N35	

ADA-03


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**UCHICAGO MEDICINE
INGALLS MEMORIAL**



← **SB TORRENCE AVE**

-  LANDSCAPING GRAVEL
-  SODDING SALT TOLERANT



USER NAME = jpham	DESIGNED - FN	REVISED -
DRAWN - JP	REVISED -	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

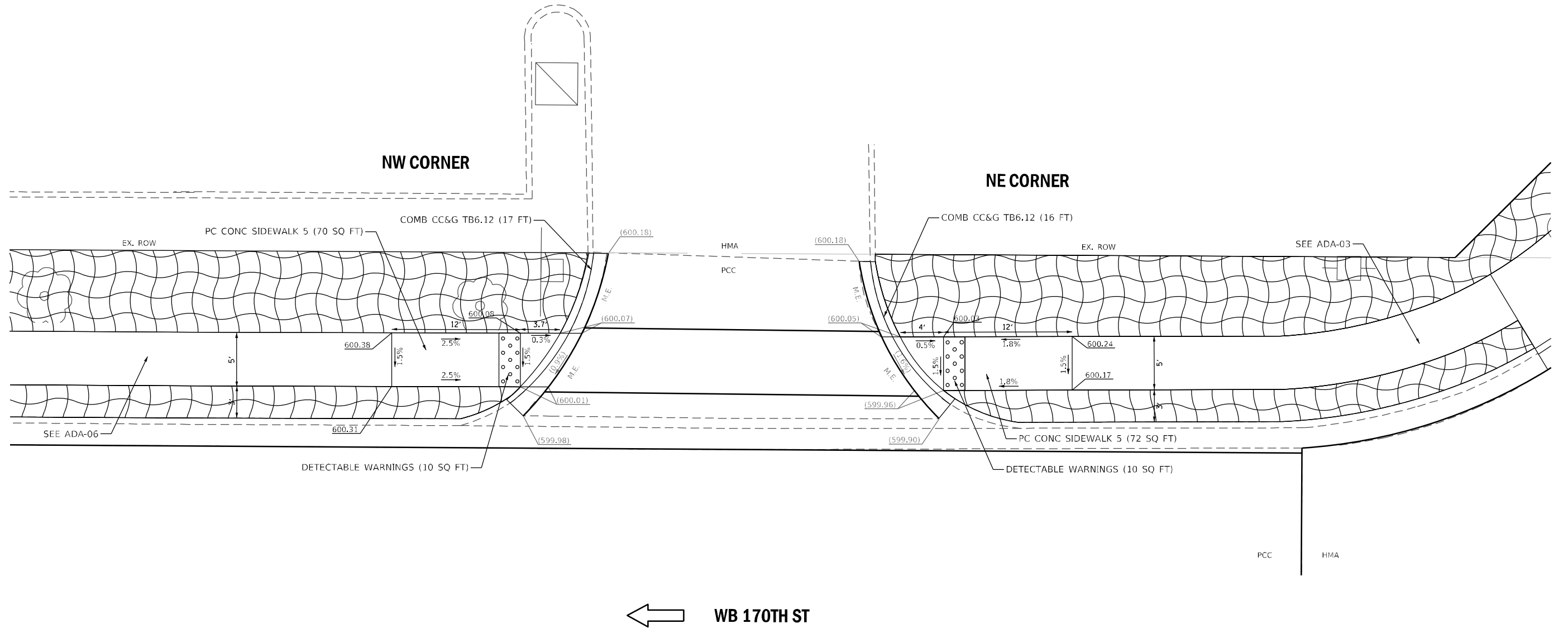
SIDEWALK DETAILS		
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST		
SCALE: 1"=10'	SHEET NO. 1 OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	23
CONTRACT NO. 62N35				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ADA-04

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**UCHICAGO
MEDICINE**



-  LANDSCAPING GRAVEL
-  SODDING SALT TOLERANT



← **WB 170TH ST**



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PLOT SCALE = 10,000' / in.	DRAWN - JP	REVISED -
PLOT DATE = 10/14/2021	CHECKED - MK	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAILS
US RTE 6 /IL RTE 83 (TORRENCE AVE) AT 167TH ST /170TH ST**

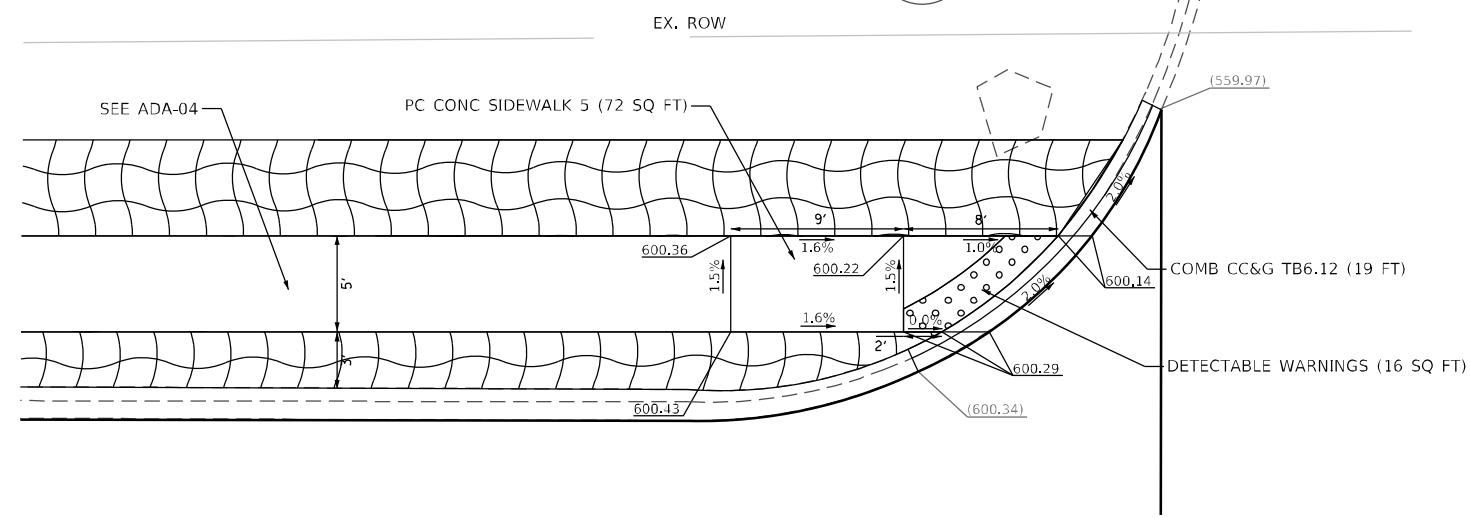
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		ADA-05	
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		CONTRACT NO. 62N35	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



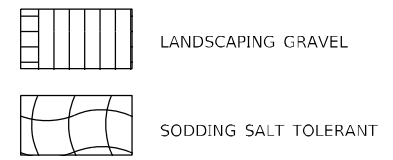
UCHICAGO MEDICINE

CHILIS RESTAURANT



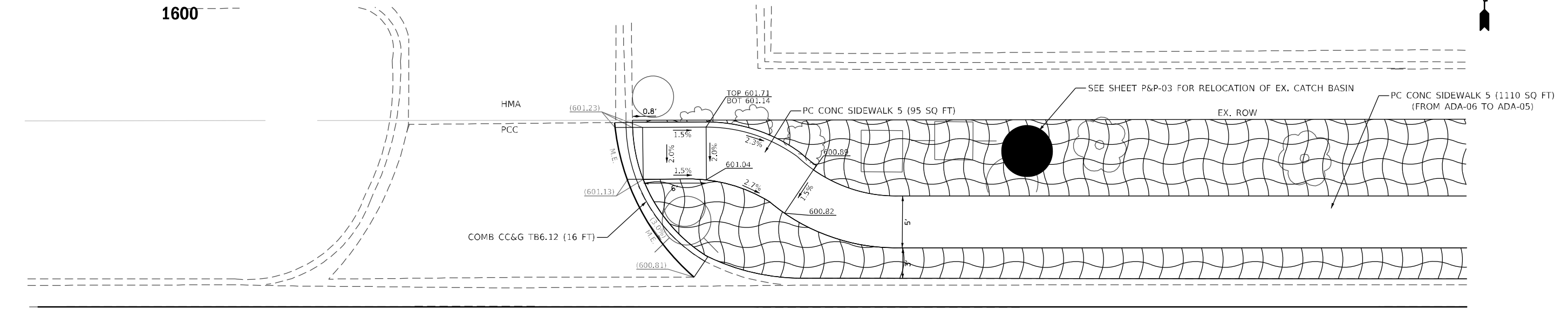
← SB TORRENCE AVE

SW CORNER



UCHICAGO MEDICINE
1600

UCHICAGO MEDICINE



← WB 170TH ST

NE CORNER



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAILS
US RTE 6 / IL RTE 83 (TORRENCE AVE) AT 167TH ST / 170TH ST
SCALE: 1"=10' SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	25
CONTRACT NO. 62N35				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

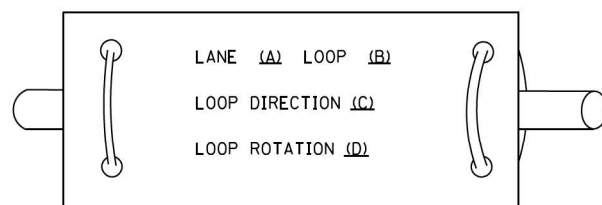
ADA-06

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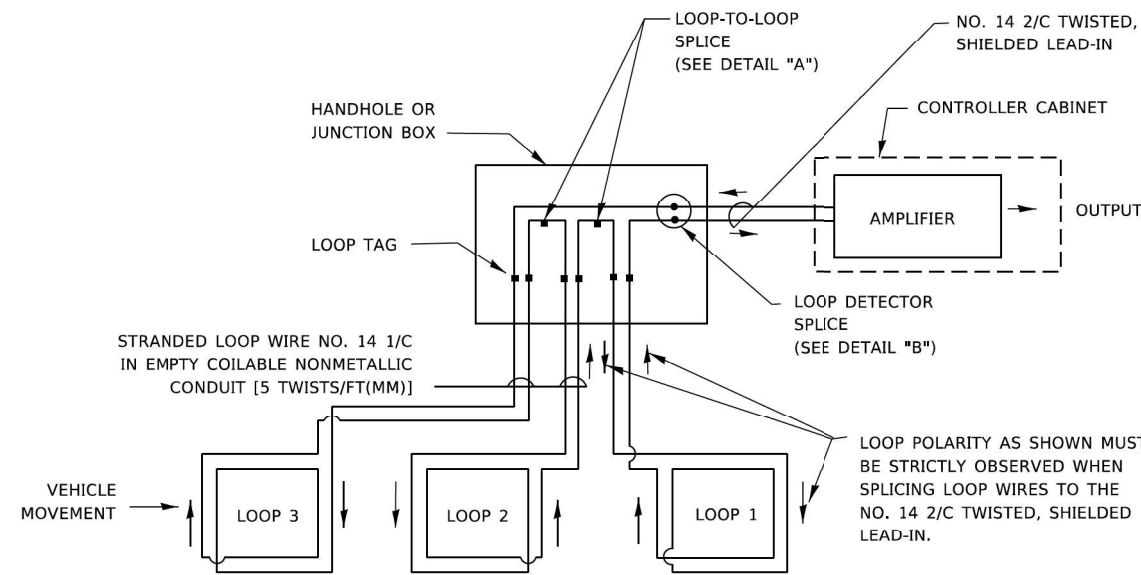
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

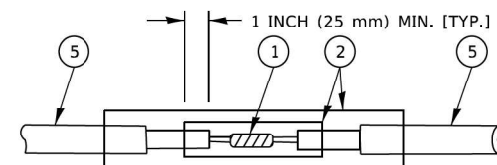


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

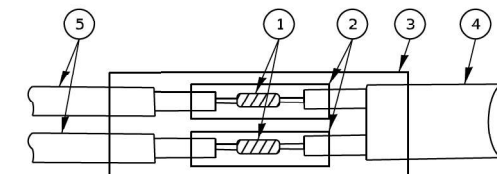


DETECTOR LOOP WIRING SCHEMATIC

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

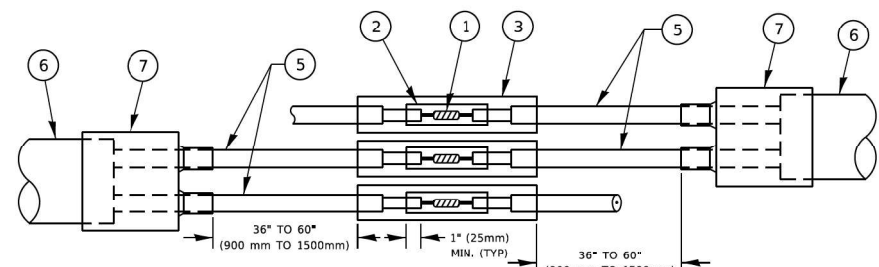


DETAIL "A"
LOOP-TO-LOOP SPLICE

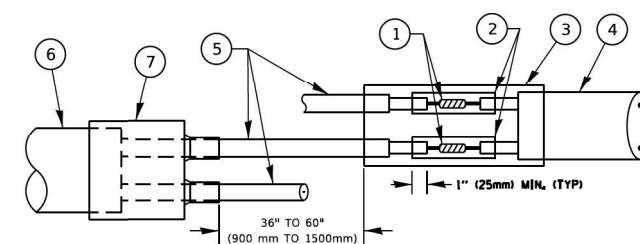


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

MODEL Defaul
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

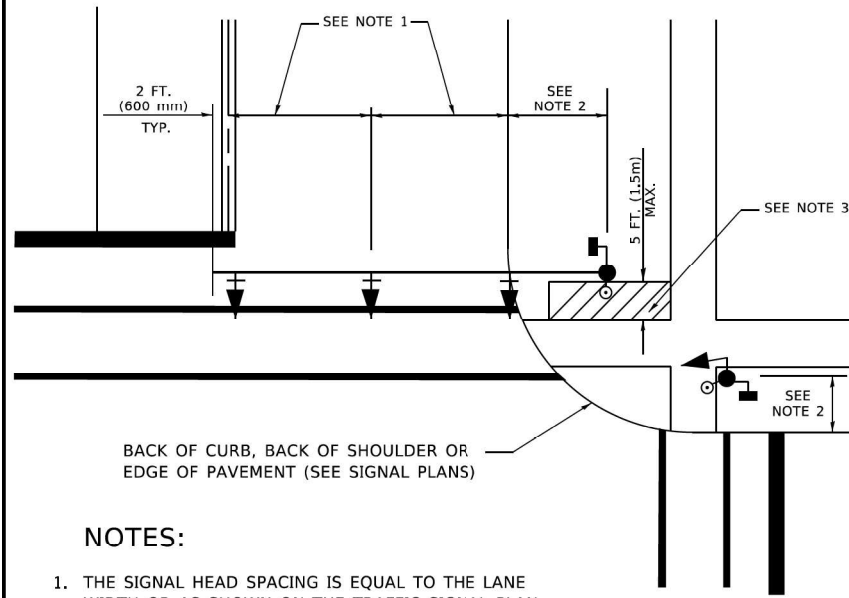
DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2021-002-TS&SW	COOK	62	27
TS-05			CONTRACT NO. 62N35	
ILLINOIS FED. AID PROJECT				

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.

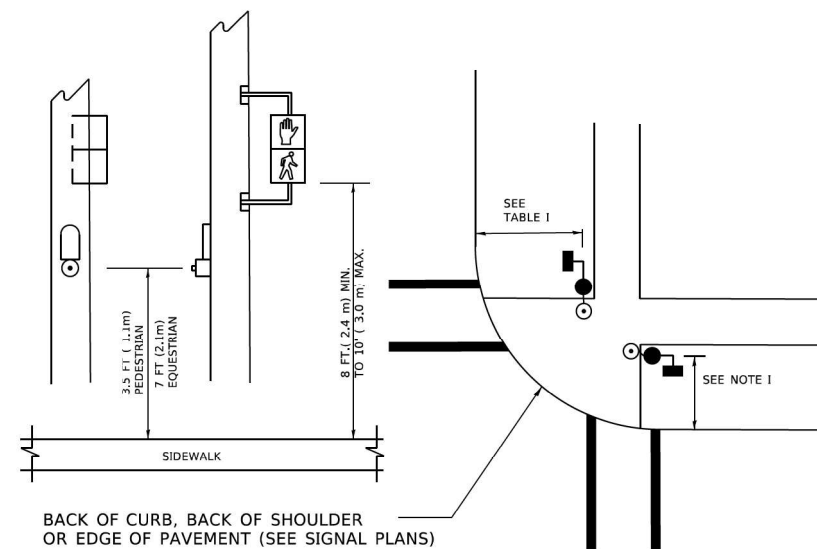


BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

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

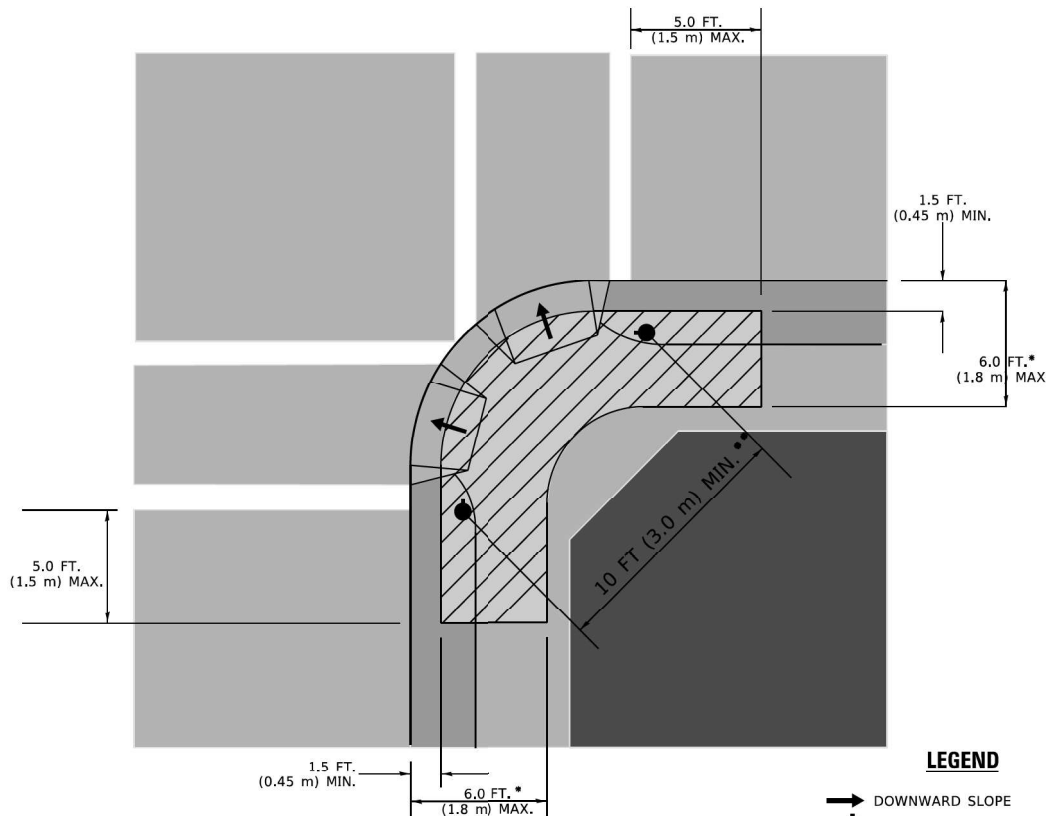


BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

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 (0.5m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.3m), 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 (1.3m), 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 TO THE 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

MODEL: Defaul FILE: \\NAME: 2021-002-TS&SW\Drawings\2021-002-TS&SW\Traffic\TS_SHT3.dwg



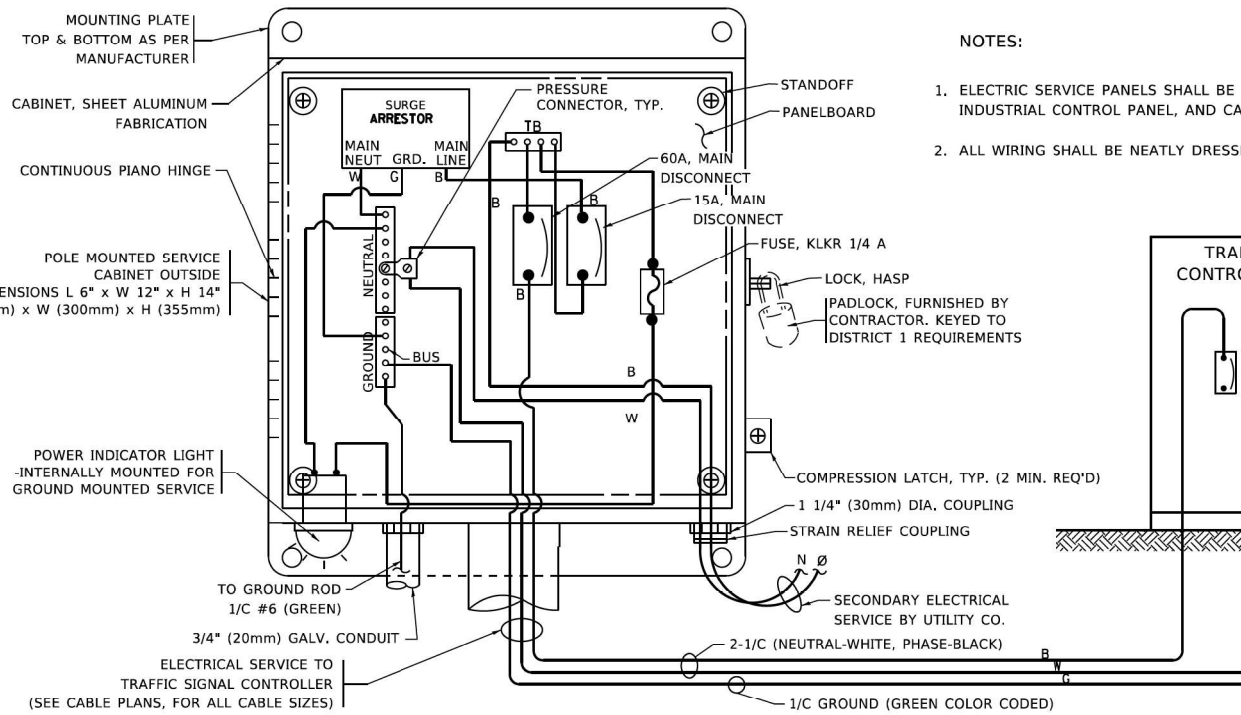
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	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

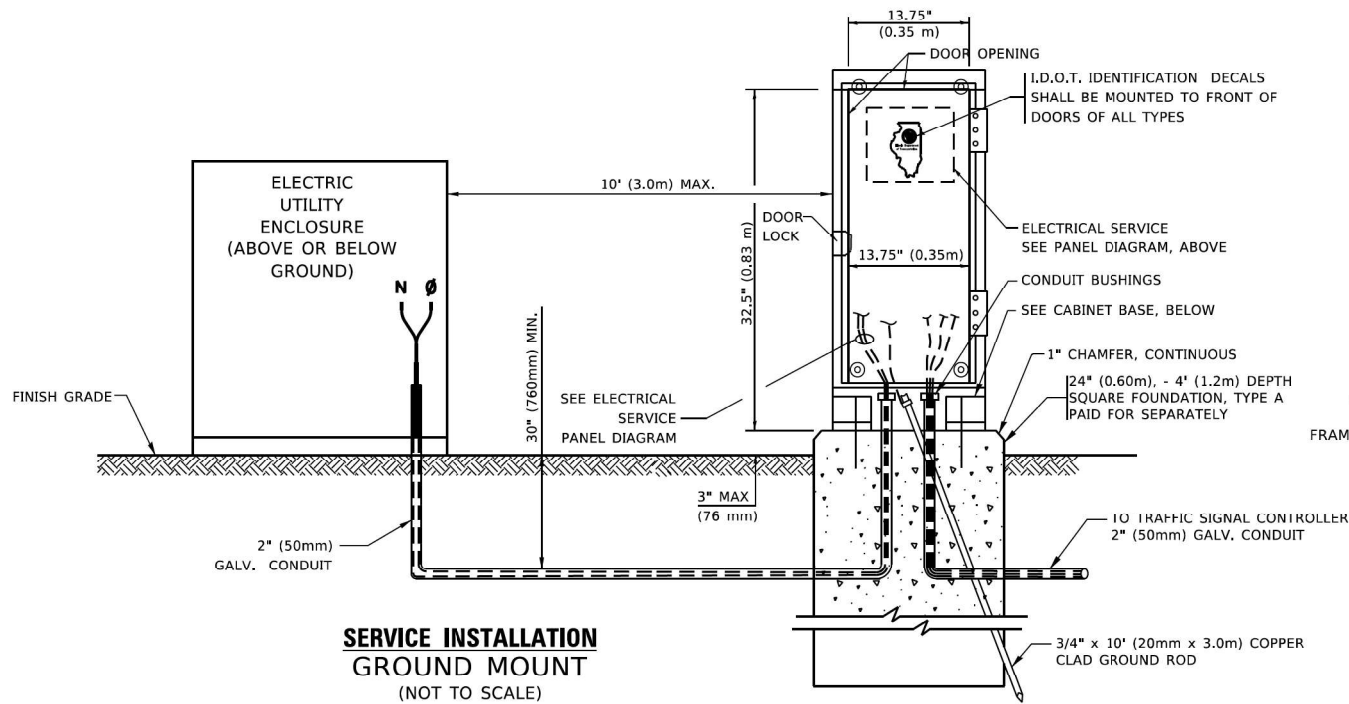
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

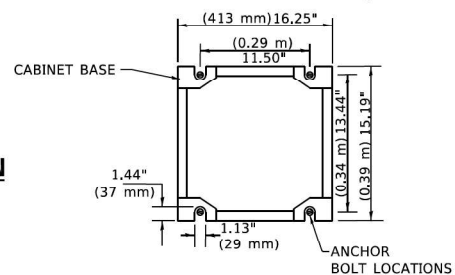
F.A.P. RTIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2021-002-TS&SW	COOK	62	28
TS-05		CONTRACT NO. 62N35		
ILLINOIS FED. AID PROJECT				



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

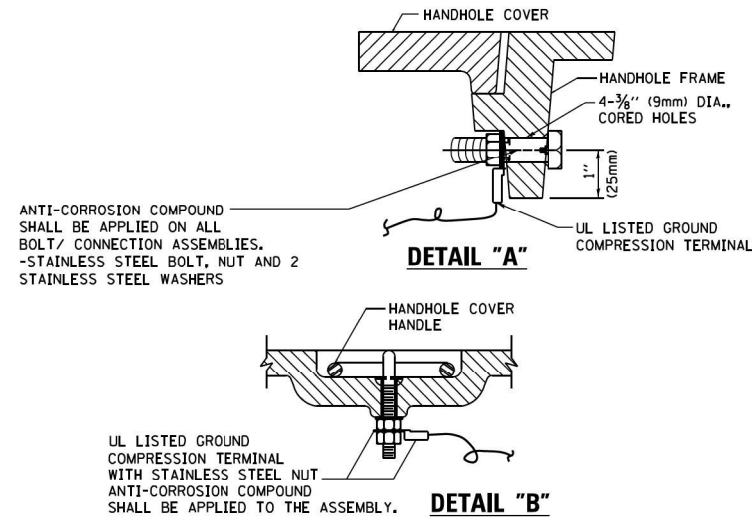


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

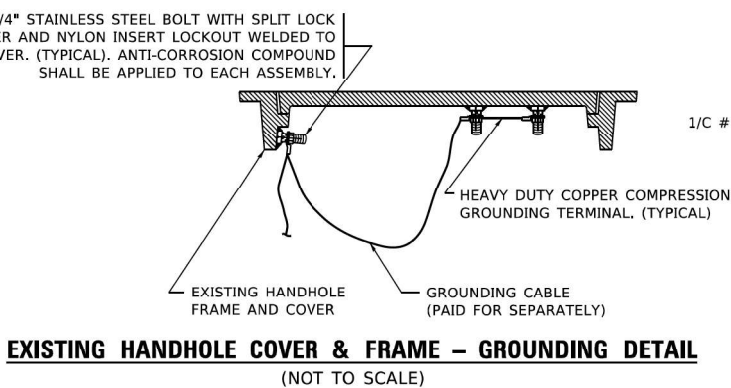


CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

- 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.



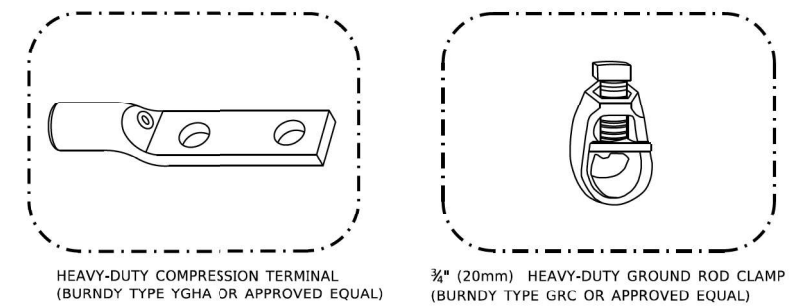
HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



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

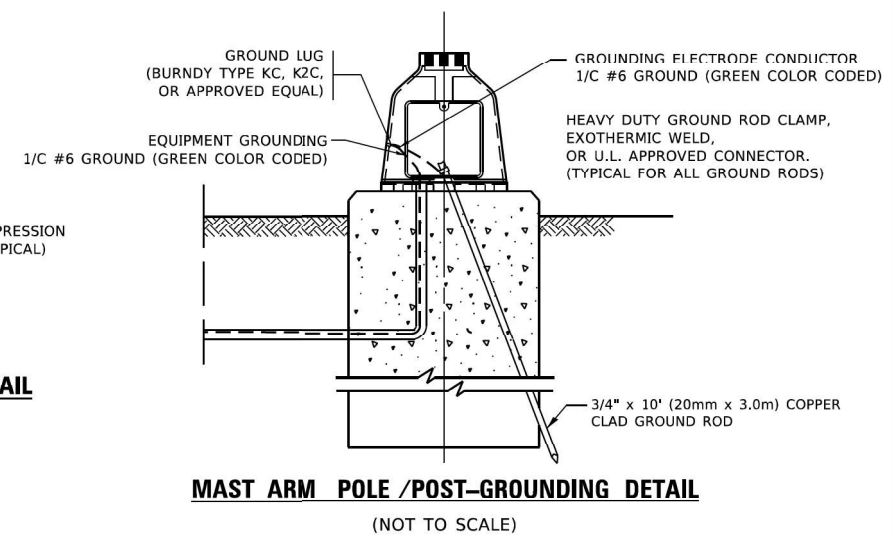
NOTES:
GROUNDING SYSTEM

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.



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)

TS SHT NO. 4

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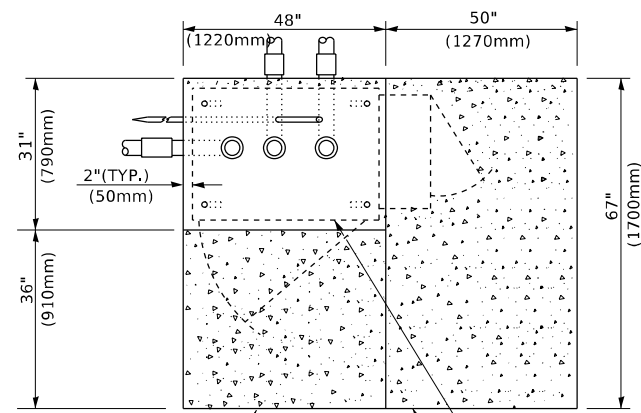


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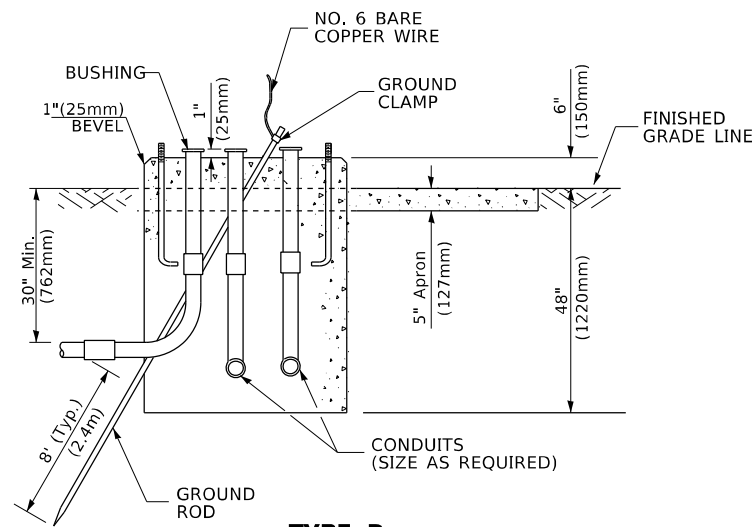
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 4	OF 7 SHEETS	STA. TO STA.

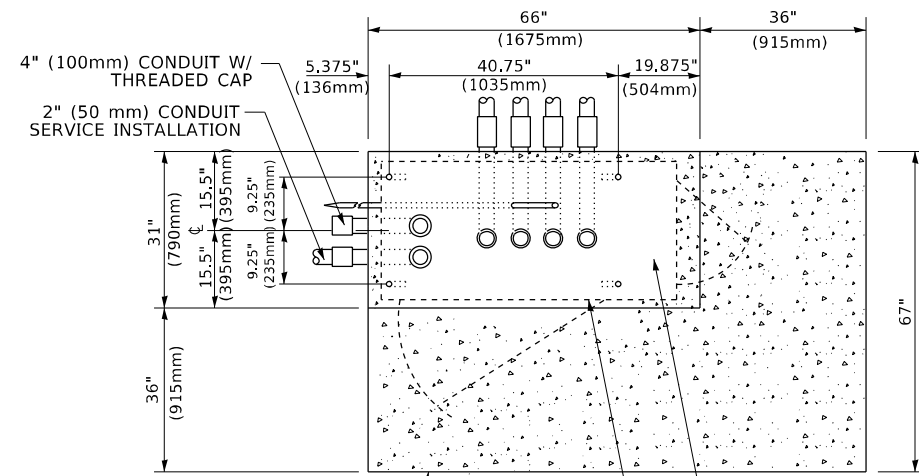
F.A.P. RTTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2021-002-TSG&SW	COOK	62	29
TS-05		CONTRACT NO. 62N35		
ILLINOIS FED. AID PROJECT				



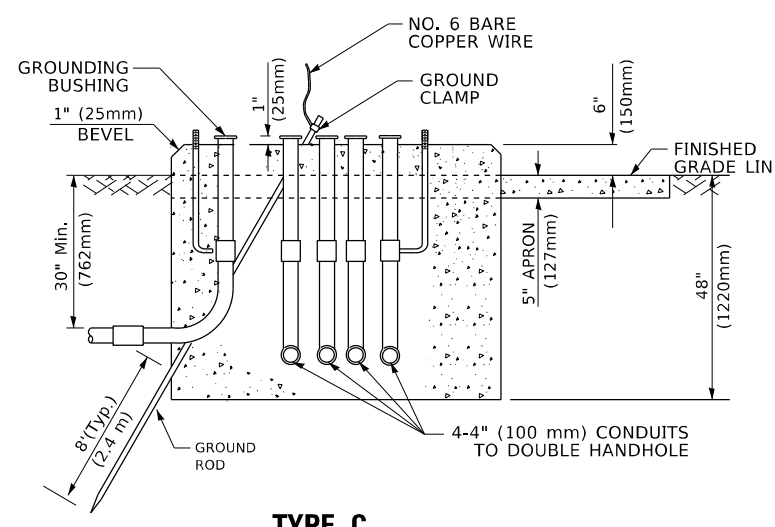
TOP VIEW



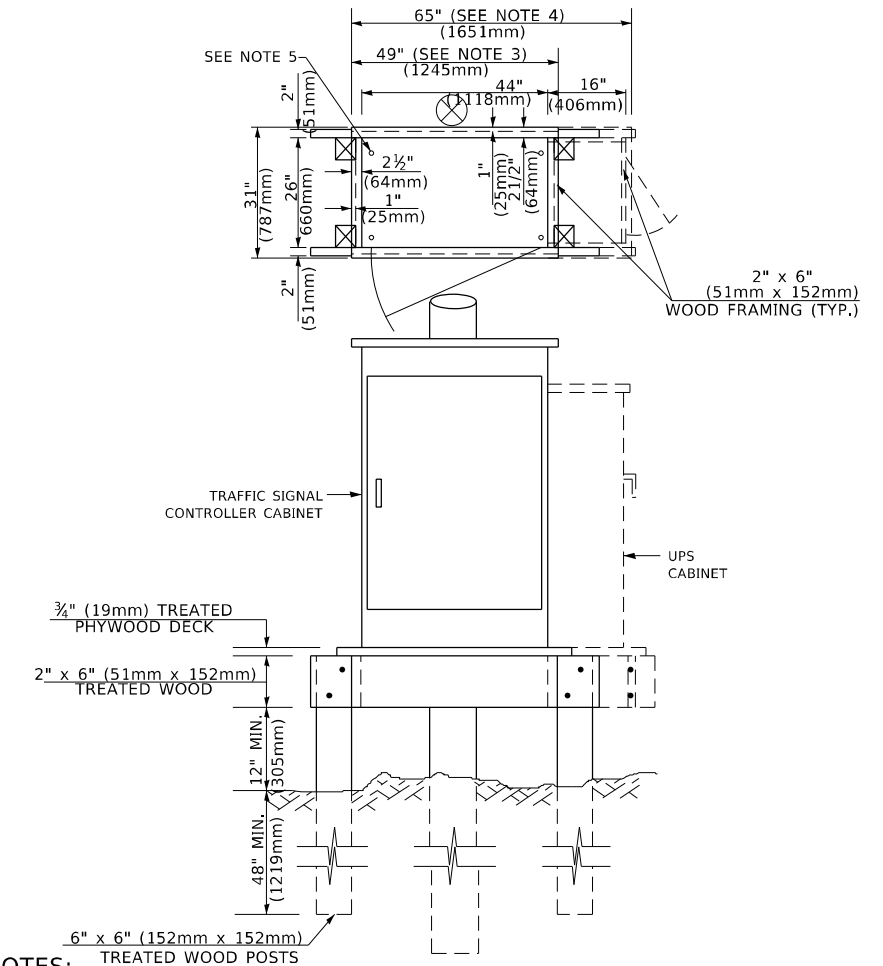
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



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)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	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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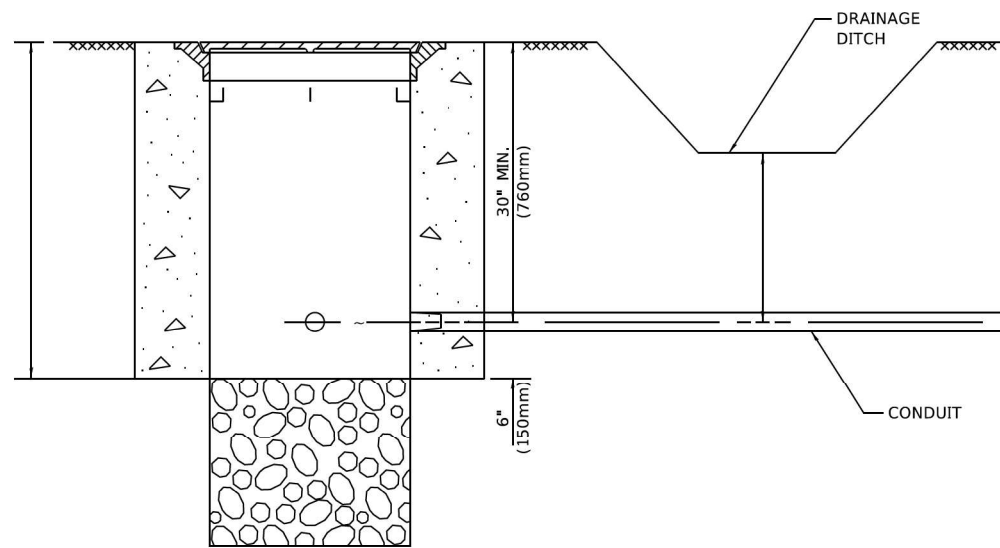
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

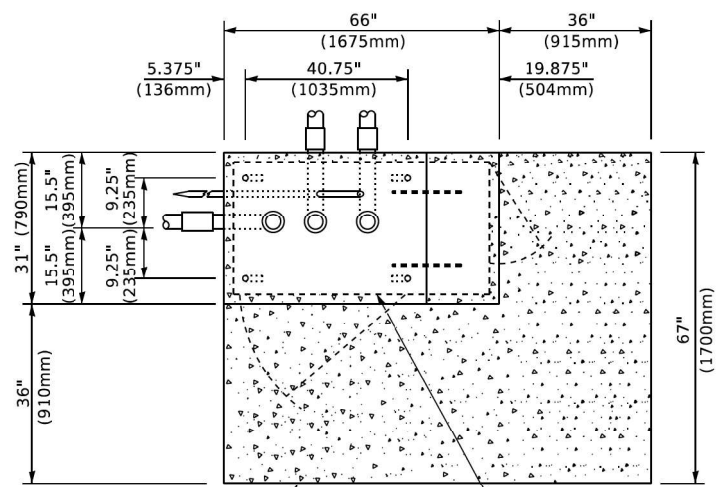
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358 2021-002-TS&SW COOK 62 30
TS-05 CONTRACT NO. 62N35
ILLINOIS FED. AID PROJECT



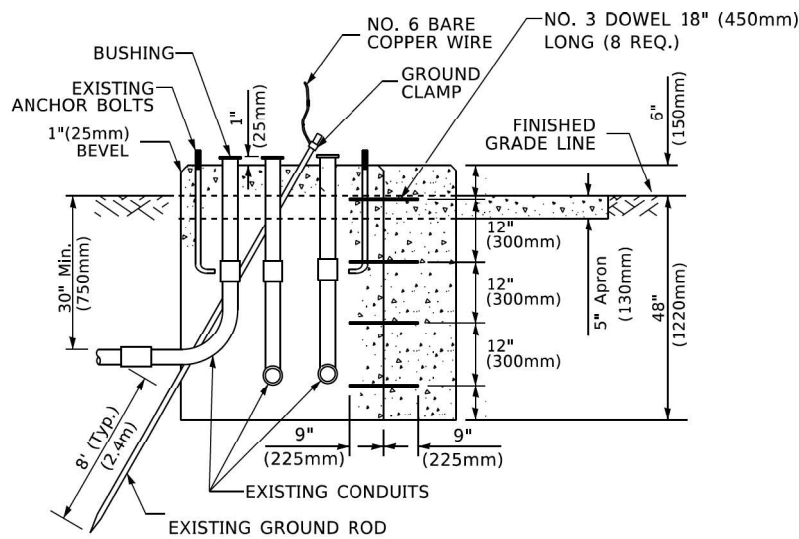
NOTES:

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.

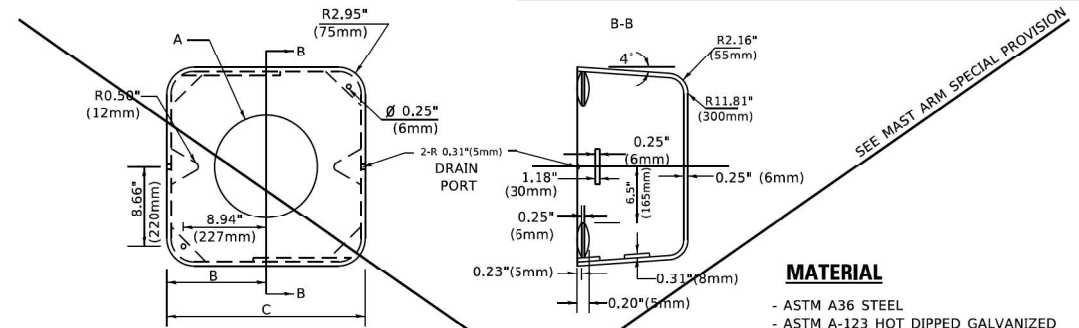
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)



SHROUD

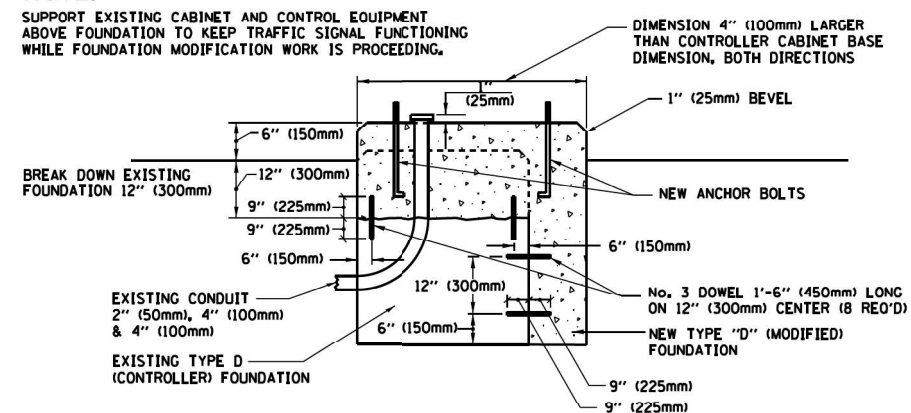
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12"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

NOTES:

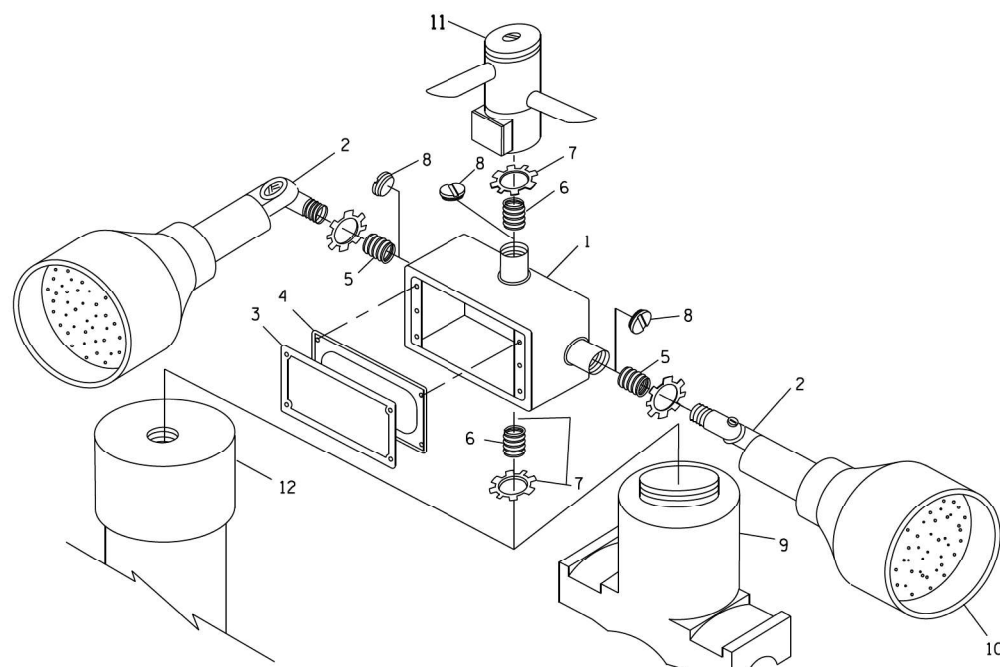
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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

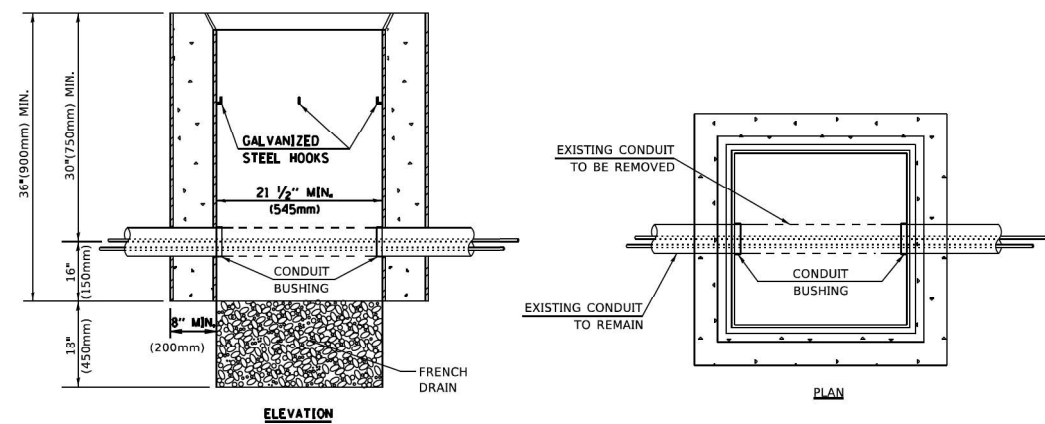


POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (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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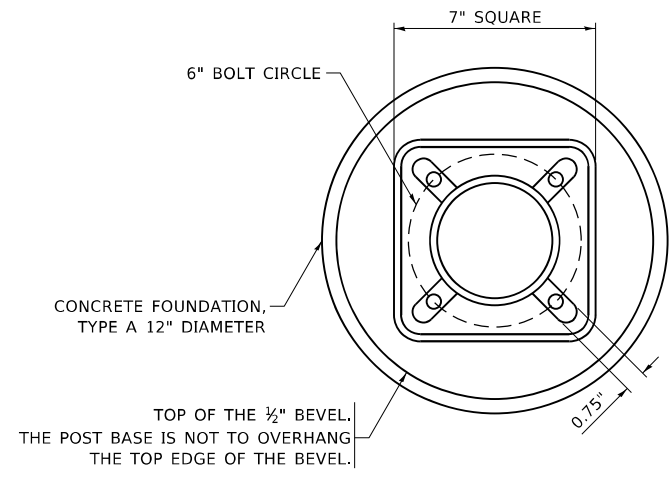
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

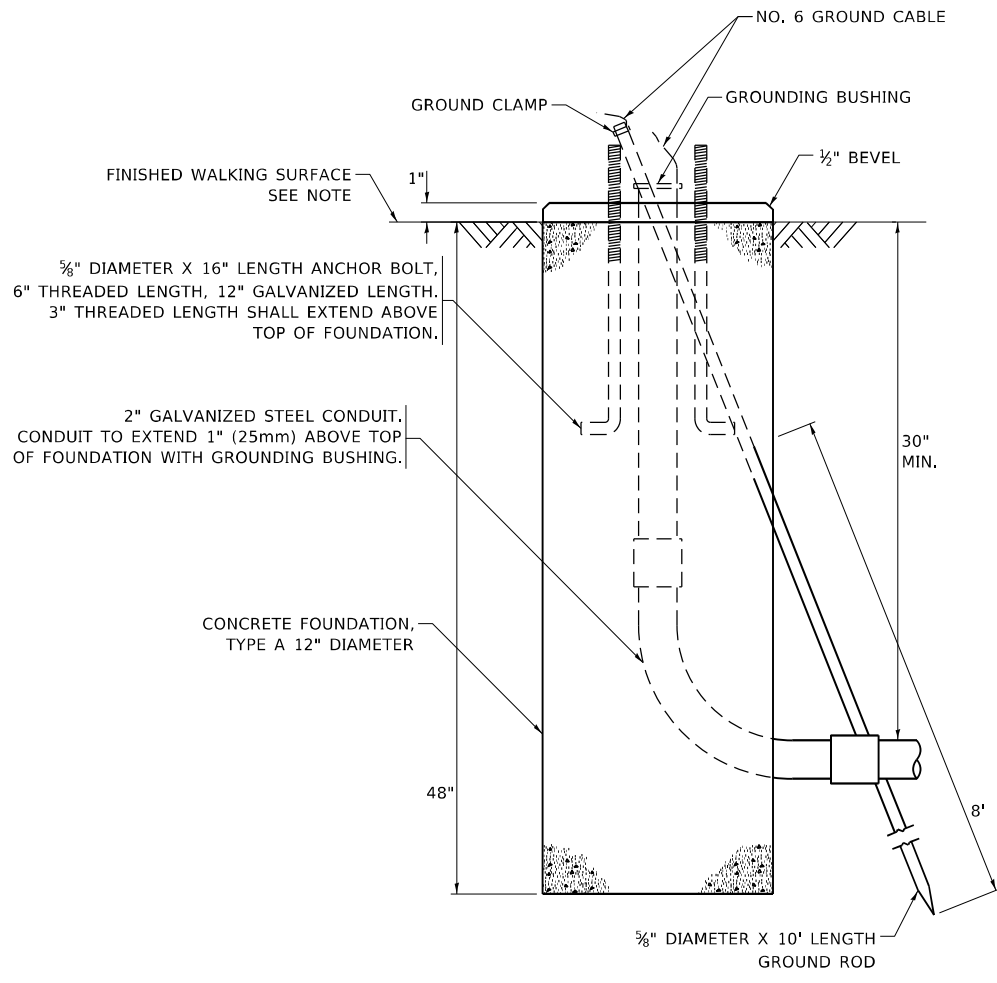
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VAR	2021-002-TSG&SW	COOK	62	31
	TS-05		CONTRACT NO. 62N35	
		ILLINOIS FED. AID PROJECT		

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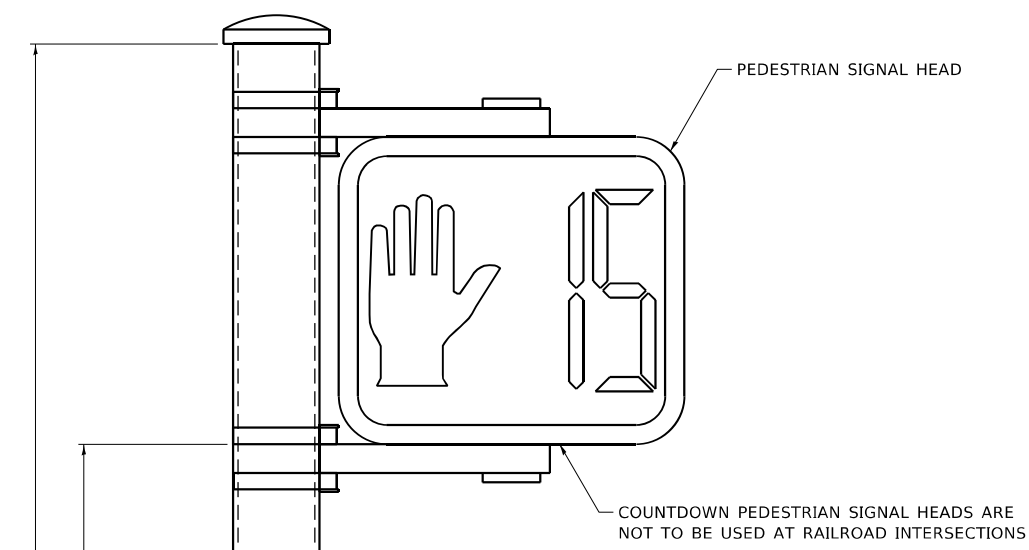


BOLT PATTERN

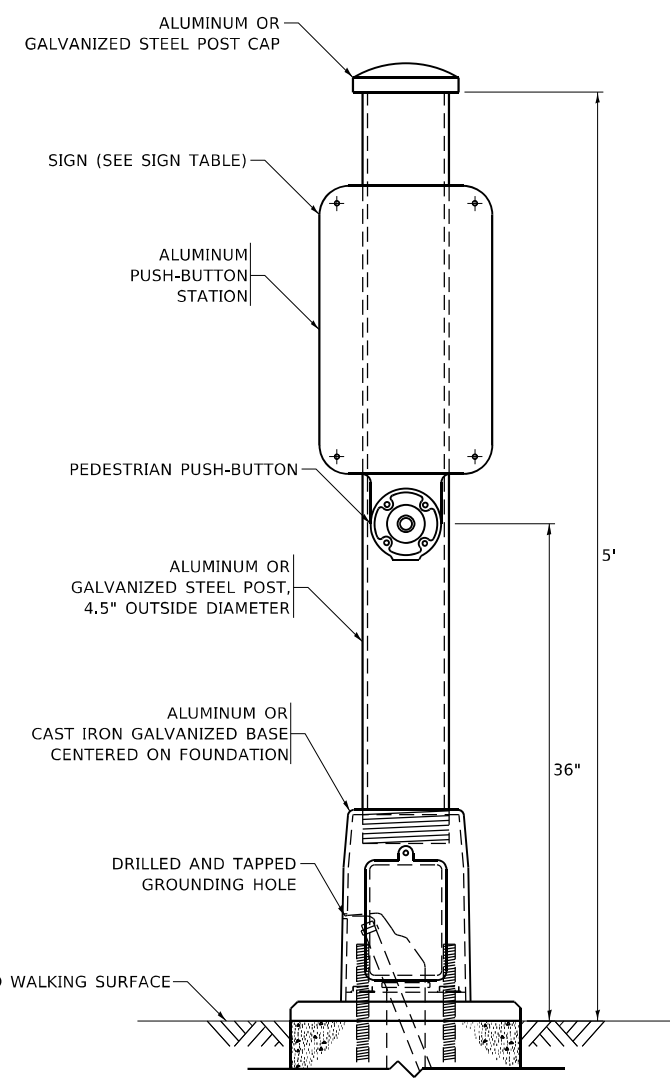
NOTE:
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



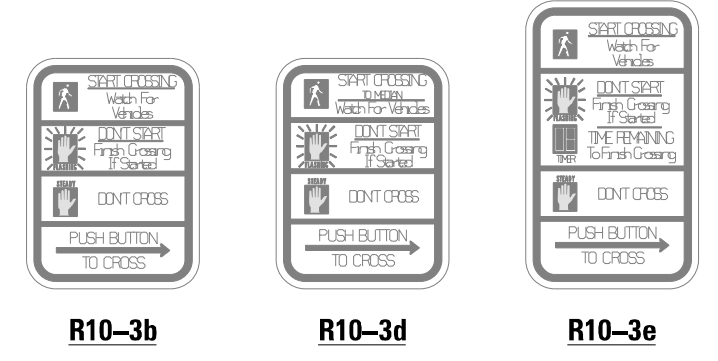
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:
1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.



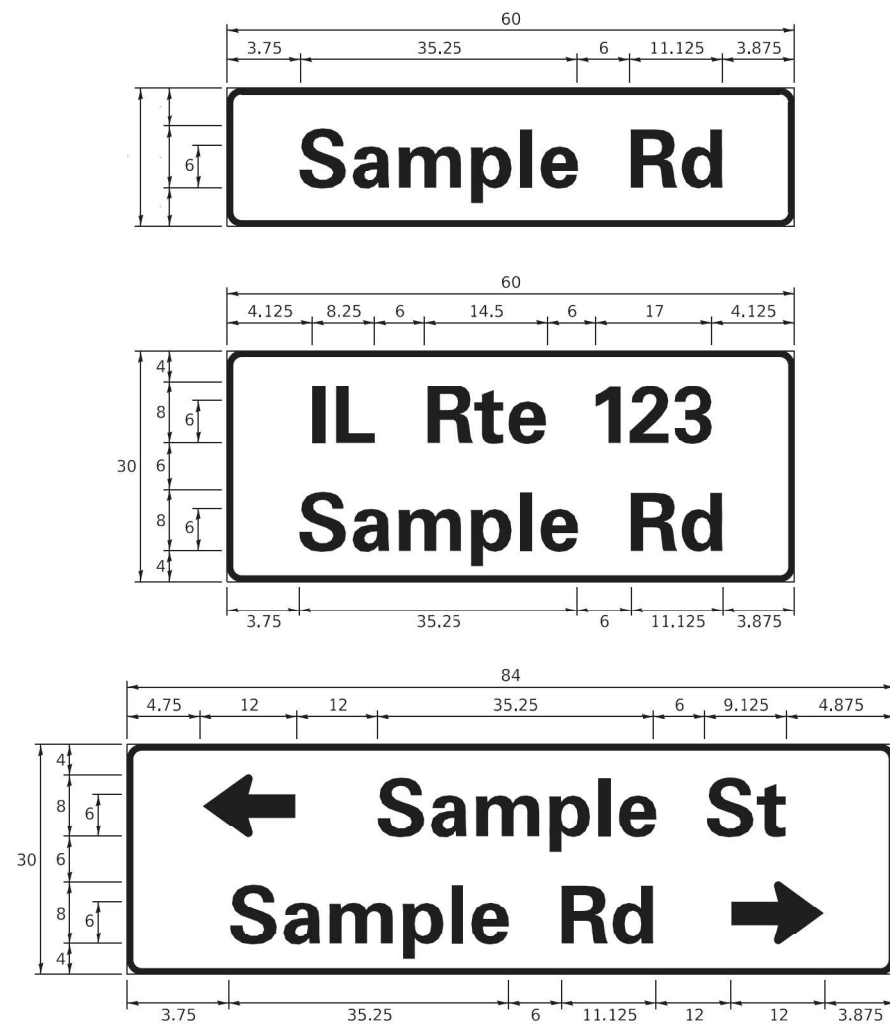
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 32
TS-05		CONTRACT NO. 62N35		
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	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	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

- 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.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS 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.
- 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.
- 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.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
MIDDLEBURY, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

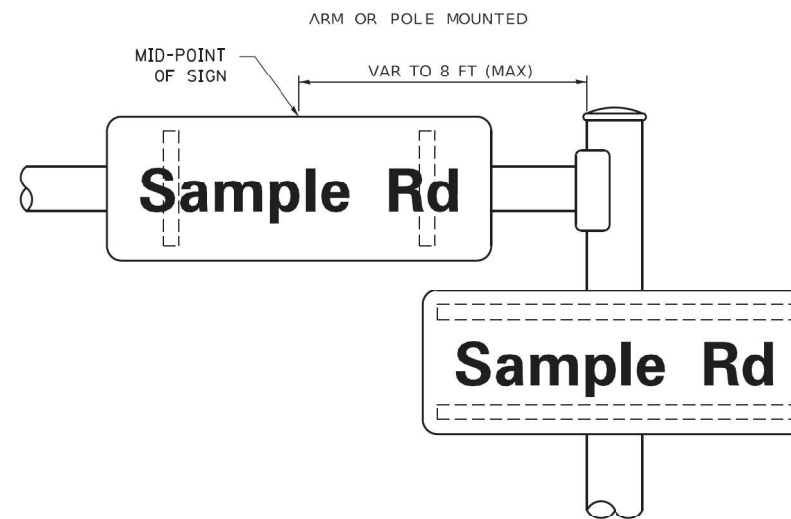
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

STANDARD ALPHABETS SPACING CHART

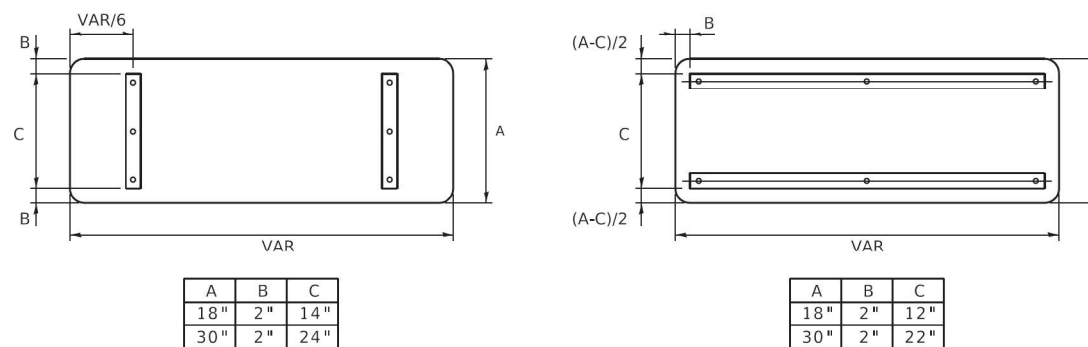
(8") UPPER CASE AND (6") LOWER CASE

CHARACTER	FHWA SERIES "C"			FHWA SERIES "D"			
	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	4.432	0.480	B	0.960	5.446	0.400
C	0.720	4.432	0.720	C	0.800	5.446	0.800
D	0.880	4.432	0.720	D	0.960	5.446	0.800
E	0.880	4.032	0.480	E	0.960	4.962	0.400
F	0.880	4.032	0.240	F	0.960	4.962	0.240
G	0.720	4.432	0.720	G	0.800	5.446	0.800
H	0.880	4.432	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	4.032	0.880	J	0.240	5.122	0.960
K	0.880	4.432	0.480	K	0.960	5.604	0.400
L	0.880	4.032	0.240	L	0.960	4.962	0.240
M	0.880	5.234	0.880	M	0.960	6.244	0.960
N	0.880	4.432	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	4.432	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	4.432	0.480	R	0.960	5.446	0.400
S	0.480	4.432	0.480	S	0.400	5.446	0.400
T	0.240	4.032	0.240	T	0.240	4.962	0.240
U	0.880	4.432	0.880	U	0.960	5.446	0.960
V	0.240	4.952	0.240	V	0.240	6.084	0.240
W	0.240	6.034	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	4.432	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	4.032	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	4.032	0.720	d	0.480	4.802	0.800
e	0.480	4.032	0.320	e	0.480	4.722	0.320
f	0.320	2.430	0.160	f	0.320	2.882	0.160
g	0.480	4.032	0.720	g	0.480	4.802	0.800
h	0.720	4.032	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	4.032	0.640	n	0.800	4.722	0.720
o	0.480	4.032	0.480	o	0.480	4.882	0.480
p	0.720	4.032	0.480	p	0.800	4.802	0.480
q	0.480	4.032	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	3.352	0.240	s	0.320	3.762	0.240
t	0.080	2.832	0.080	t	0.080	3.202	0.080
u	0.640	4.032	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	4.952	0.160	y	0.160	6.004	0.160
z	0.240	3.352	0.240	z	0.240	4.002	0.240
1	0.720	1.630	0.880	1	0.800	2.000	0.960
2	0.480	4.432	0.480	2	0.800	5.446	0.800
3	0.480	4.432	0.480	3	1.440	5.446	0.800
4	0.240	4.952	0.720	4	0.160	6.004	0.960
5	0.480	4.432	0.480	5	0.800	5.446	0.800
6	0.720	4.432	0.720	6	0.800	5.446	0.800
7	0.240	4.432	0.720	7	0.560	5.446	0.560
8	0.480	4.432	0.480	8	0.800	5.446	0.800
9	0.480	4.432	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

MOUNTING LOCATION



SUPPORTING CHANNELS



TS SHT NO. 8

MODEL: D:\proj\2021\002-TS6&SW\Drawings\TS-02.dwg FILE: TS-02.dwg PLOT DATE: 3/4/2019 11:06:17 AM



USER NAME = footemj	DESIGNED - LP/IP	REVISED - LP 07/01/2015
PLOT SCALE = 50.0000' / 1"	CHECKED - IP	REVISED -
PLOT DATE = 3/4/2019	DATE - 10/01/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS**

F.A.P. RT#E: 358	SECTION: 2021-002-TS6&SW	COUNTY: COOK	TOTAL SHEETS: 62	SHEET NO.: 33
TS-02		CONTRACT NO. 62N35		
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

REMOVAL 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 CONTRACTOR BID PRICE:

- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND BE RETURNED TO THE CITY OF CALUMET CITY FIRE DEPARTMENT:

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

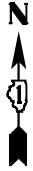
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND BE RETURNED TO STATE STOCK:

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY

MATCHLINE STA 401+80

SEE TS SHT NO. 35

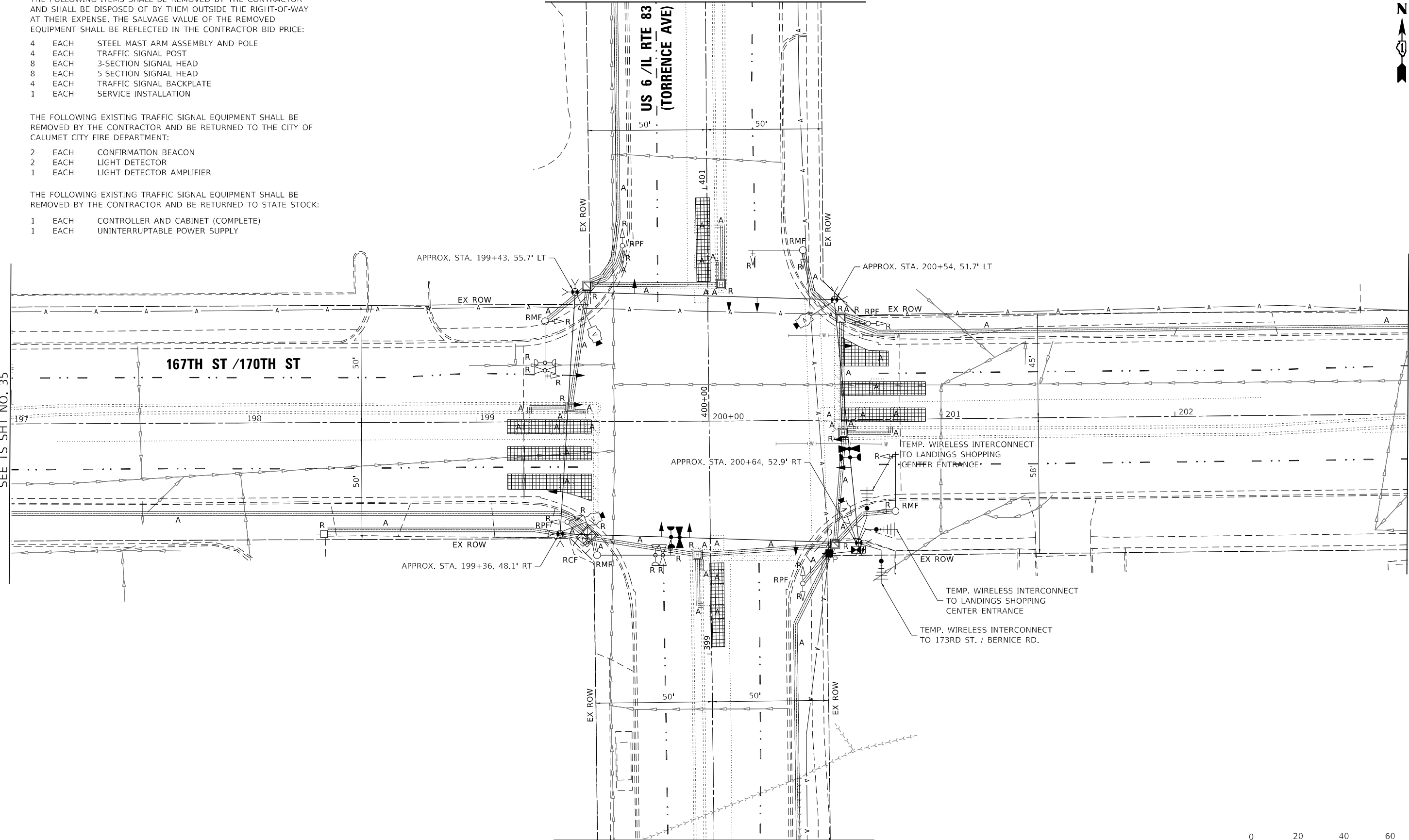
US 6 / IL RTE 83
(TORRENCE AVE)



MATCHLINE STA 197+00
SEE TS SHT NO. 35

167TH ST /170TH ST

MATCHLINE STA 203+00
SEE TS SHT NO. 35



MATCHLINE STA 398+20

SEE TS SHT NO. 35



TS SHT NO. 9

MODEL Path: \\s11551w021\0021\04_CADD\CADD_Sheets\62N35-sht9_Temp_Signal_Plan.dgn
FILE NAME: \\s11551w021\0021\04_CADD\CADD_Sheets\62N35-sht9_Temp_Signal_Plan.dgn



USER NAME = mgarvita	DESIGNED - GS	REVISED -
DRAWN - GS	REVISOR -	
PLOT SCALE = 40,0000 * / in.	CHECKED - MG/EC	REVISOR -
PLOT DATE = 10/21/2021	DATE - 10/15/2021	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US 6 / IL ROUTE 83 (TORRENCE AVE) AT 167TH /170TH ST

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	34
CONTRACT NO. 62N35				
ILLINOIS FED. AID PROJECT				

TS#195
ECON 49

MODEL: Default
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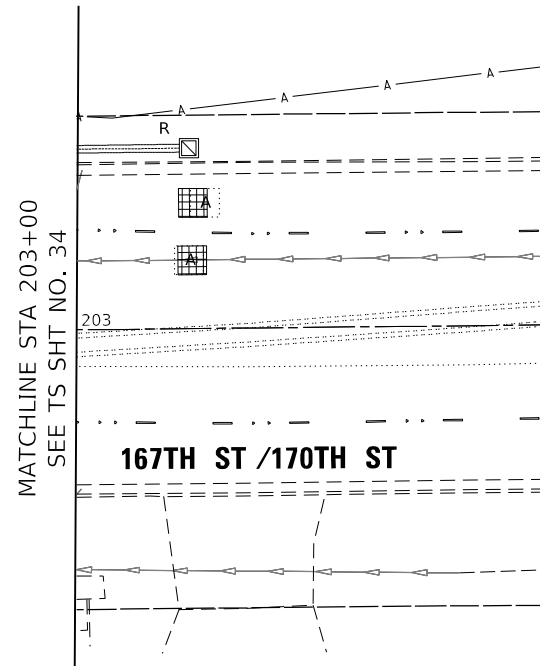
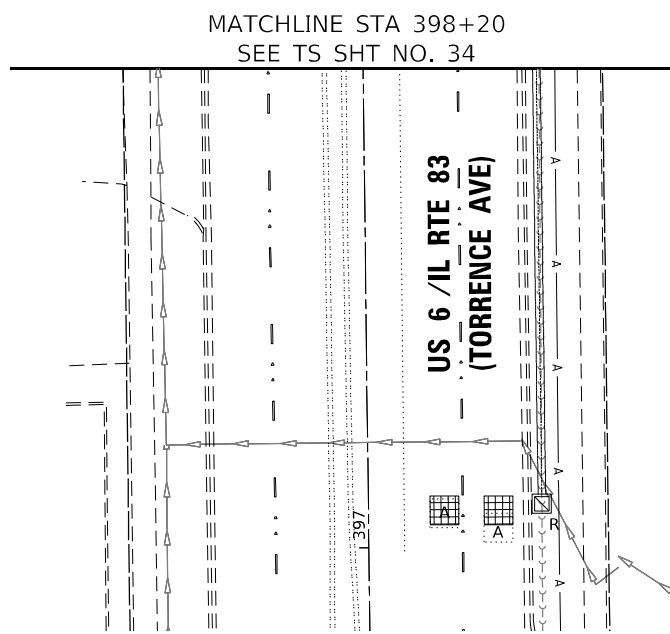
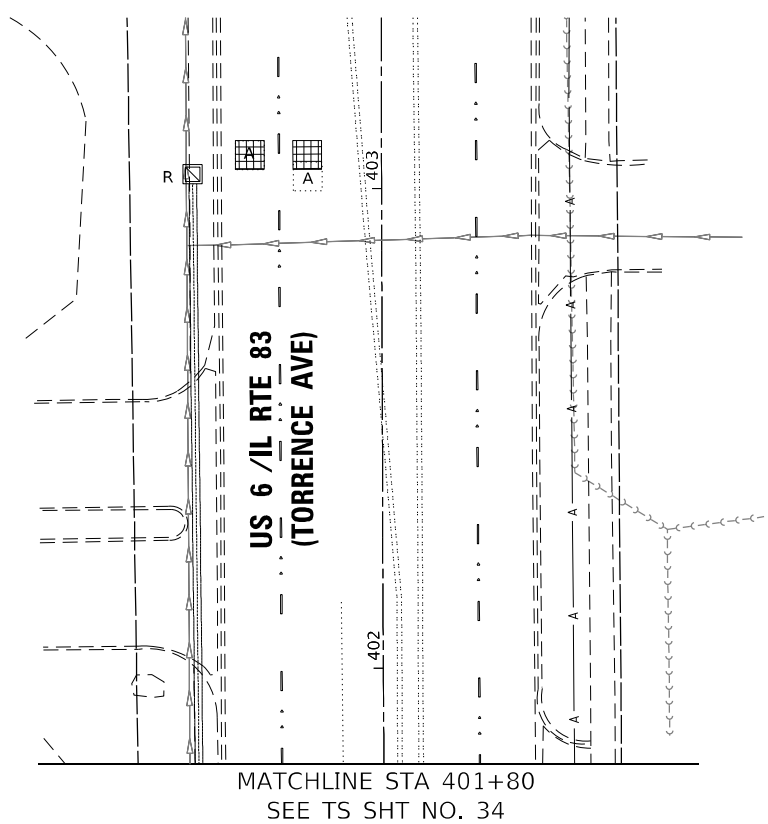
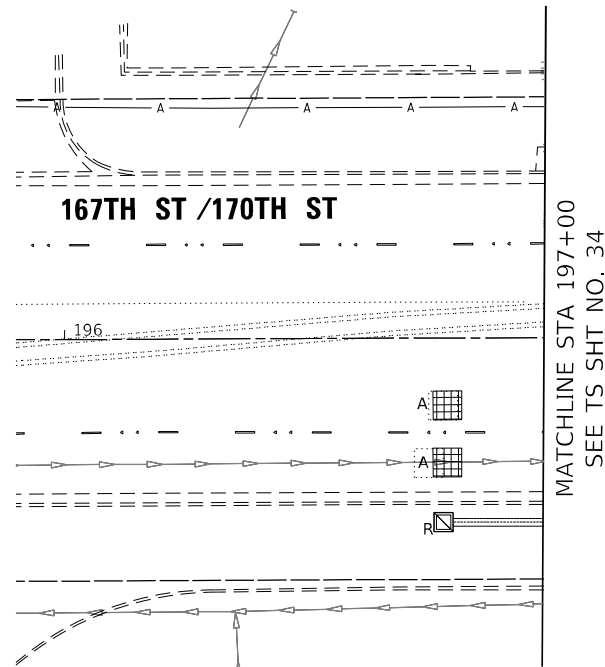
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DRAWN - GS	REVISOR -	REVISIONS -
PLOT SCALE = 40,0000 * / in.	CHECKED - MG/EC	REVISOR -
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISIONS -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

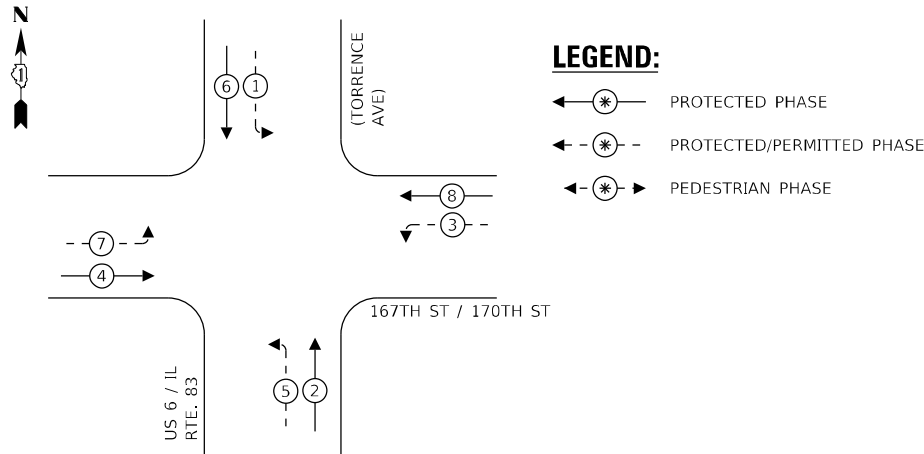
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
 REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US 6 /IL ROUTE 83 (TORRENCE AVE) AT 167TH /170TH ST

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.

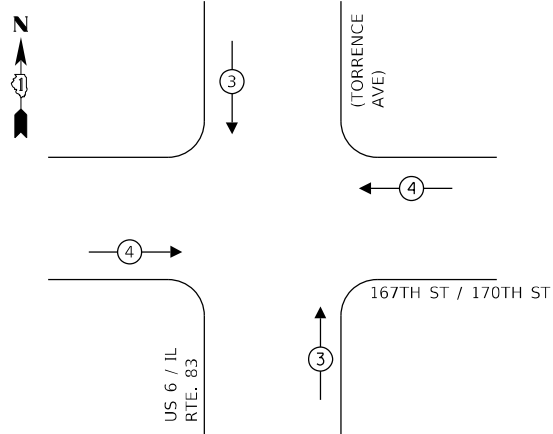
F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 35
CONTRACT NO. 62N35			ILLINOIS FED. AID PROJECT	



TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↓ ↑	← →

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

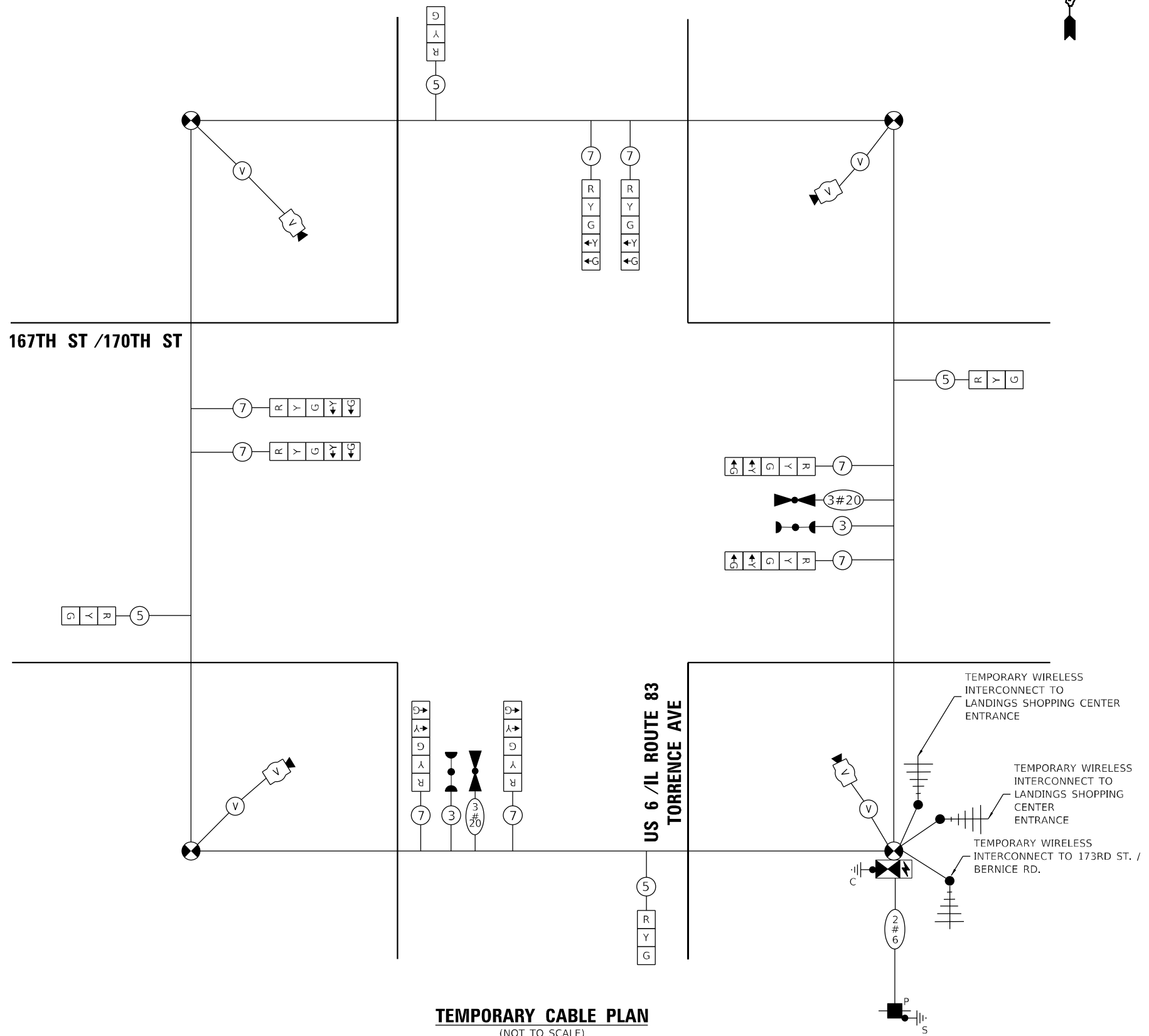
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	25	60.0
(GREEN)	12	12	25	36.0
PERMISSIVE ARROW	16	10	10	16.0
CONTROLLER	1	100	100	100.0
BATTERY BACKUP	1	25	100	25.0
TOTAL =				303.0

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTRAL COURT
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: STEPHANIE HINES
 PHONE: 708-235-2331
 COMPANY: COMED
 TOWER ACCOUNT NUMBER: 16890-21020

167TH ST /170TH ST



TEMPORARY CABLE PLAN
 (NOT TO SCALE)

TS SHT NO. 11

MODEL: P:\default
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USER NAME =	mgar/vida
DESIGNED -	GS
DRAWN -	GS
PLOT SCALE =	2,000.0' / in.
PLOT DATE =	10/15/2021
REVISIONS	
REVISED -	
CHECKED -	MG/EC
REVISIED -	
DATE -	10/15/2021
REVISIED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND
 EMERGENCY VEHICLE PREEMPTION SEQUENCE
 US 6 /IL ROUTE 83 (TORRENCE AVE) AT 167TH /170TH ST

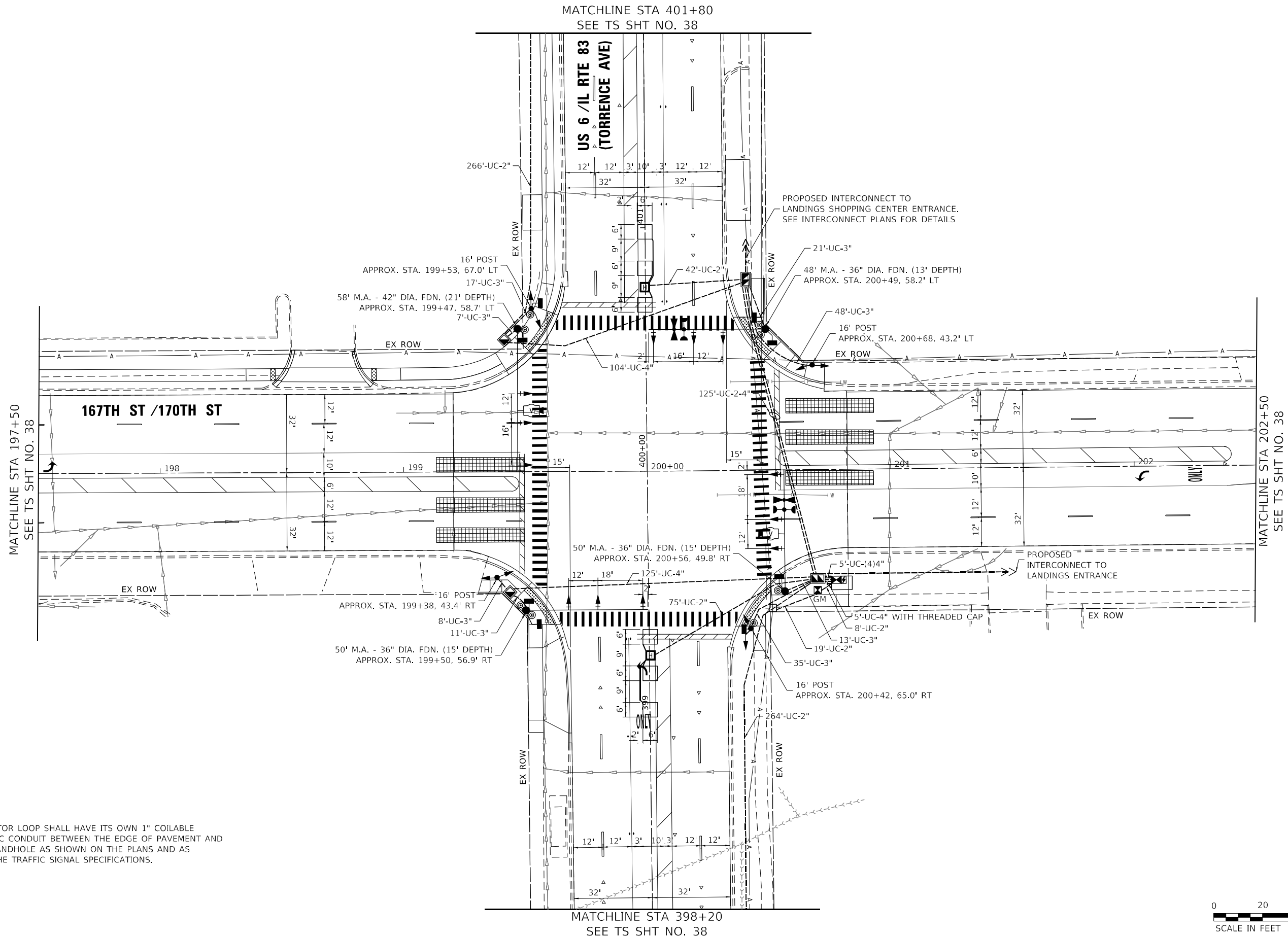
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	36
CONTRACT NO. 62N35				
ILLINOIS FED. AID PROJECT				

TS#195
 ECON 49

MODEL: Default
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MATCHLINE STA 401+80
 SEE TS SHT NO. 38



NOTES:

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



MATCHLINE STA 398+20
 SEE TS SHT NO. 38

MATCHLINE STA 202+50
 SEE TS SHT NO. 38

MATCHLINE STA 197+50
 SEE TS SHT NO. 38

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
 US 6 / IL ROUTE 83 (TORRENCE AVE) AT 167TH /170TH ST

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.



USER NAME = mgarvita	DESIGNED - GS	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - GS	REVISED -
PLOT DATE = 10/21/2021	CHECKED - MG/EC	REVISED -
	DATE - 10/15/2021	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	37
CONTRACT NO. 62N35				
ILLINOIS		FED. AID PROJECT		

TS#195
 ECON 49

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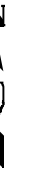
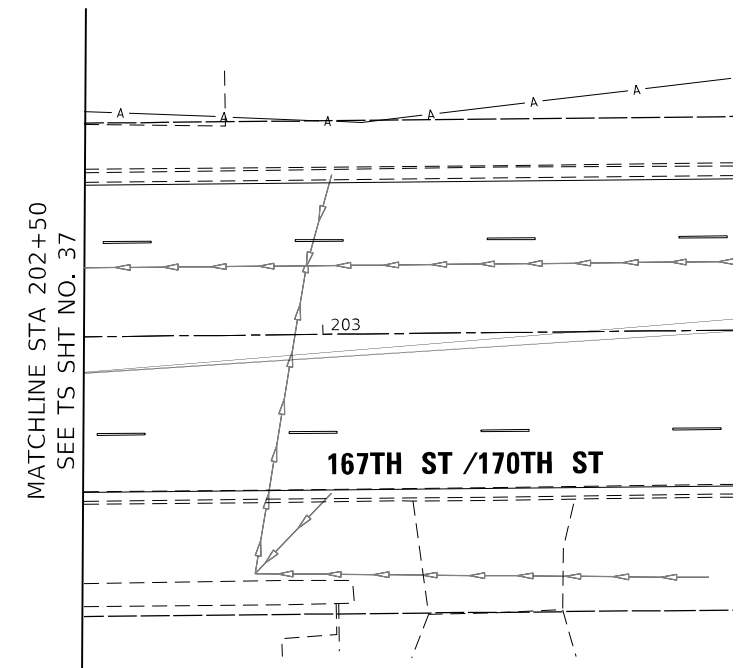
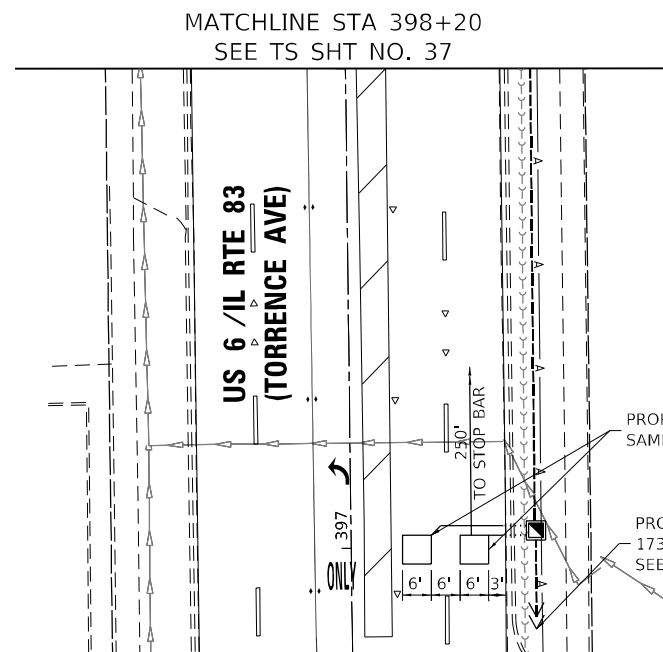
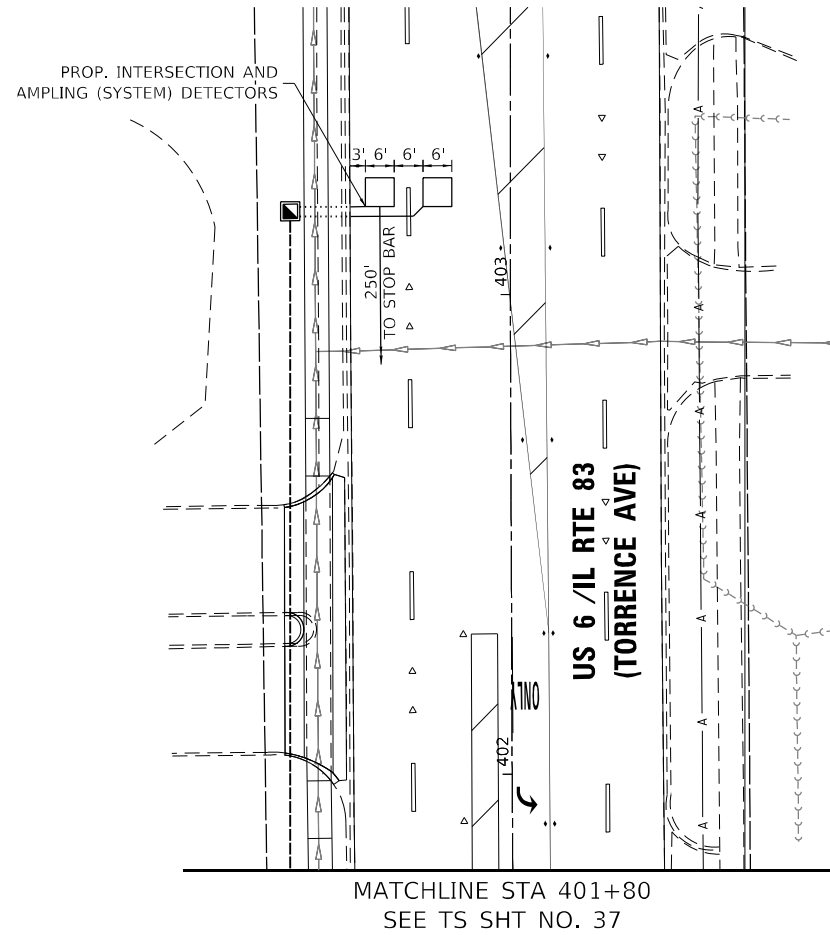
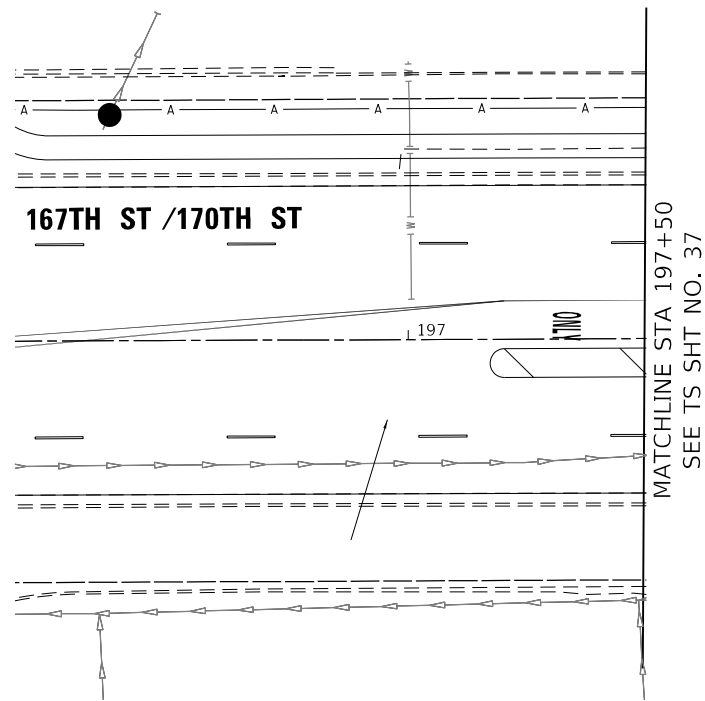
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	DRAWN - GS	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - MG/EC	REVISED -
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

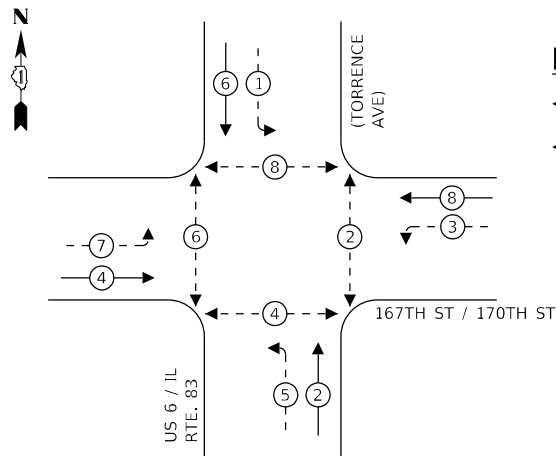
TRAFFIC SIGNAL MODERNIZATION PLAN
 US 6 /IL ROUTE 83 (TORRENCE AVE) AT 167TH /170TH ST

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	38
CONTRACT NO. 62N35				
ILLINOIS FED. AID PROJECT				



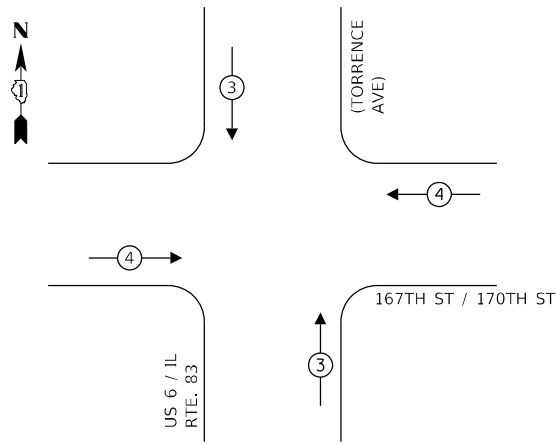
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



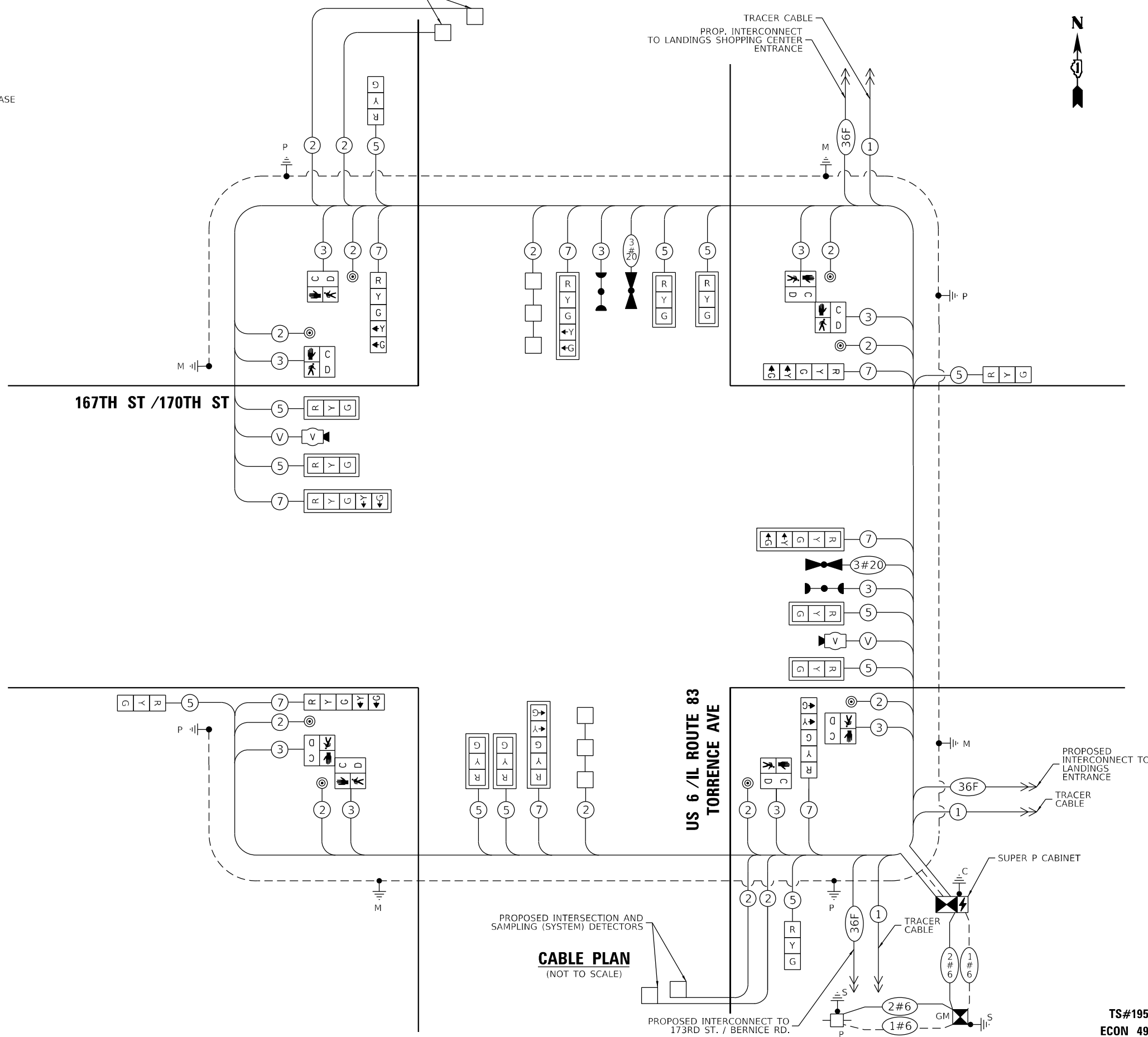
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↓ ↑	← →

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
TOTAL =				689.0

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTRAL COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY: CONTACT: STEPHANIE HINES
 PHONE: 708-235-2331
 COMPANY: COMED
 TOWER ACCOUNT NUMBER: 16890-21020

PROP. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 14

MODEL: P:\mfg\ts_sht14.dwg
 FILE NAME: \\s01p01\p01\ts_sht14.dwg
 CADD/CADD_SHEET/E2135-SHT14-Prop Cable Plan.dwg



USER NAME = mgar/vida
 DESIGNED - GS
 DRAWN - GS
 PLOT SCALE = 2,000' / in.
 PLOT DATE = 10/15/2021

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

DATE = 10/15/2021

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 US 6 / IL ROUTE 83 (TORRENCE AVE) AT 167TH /170TH ST

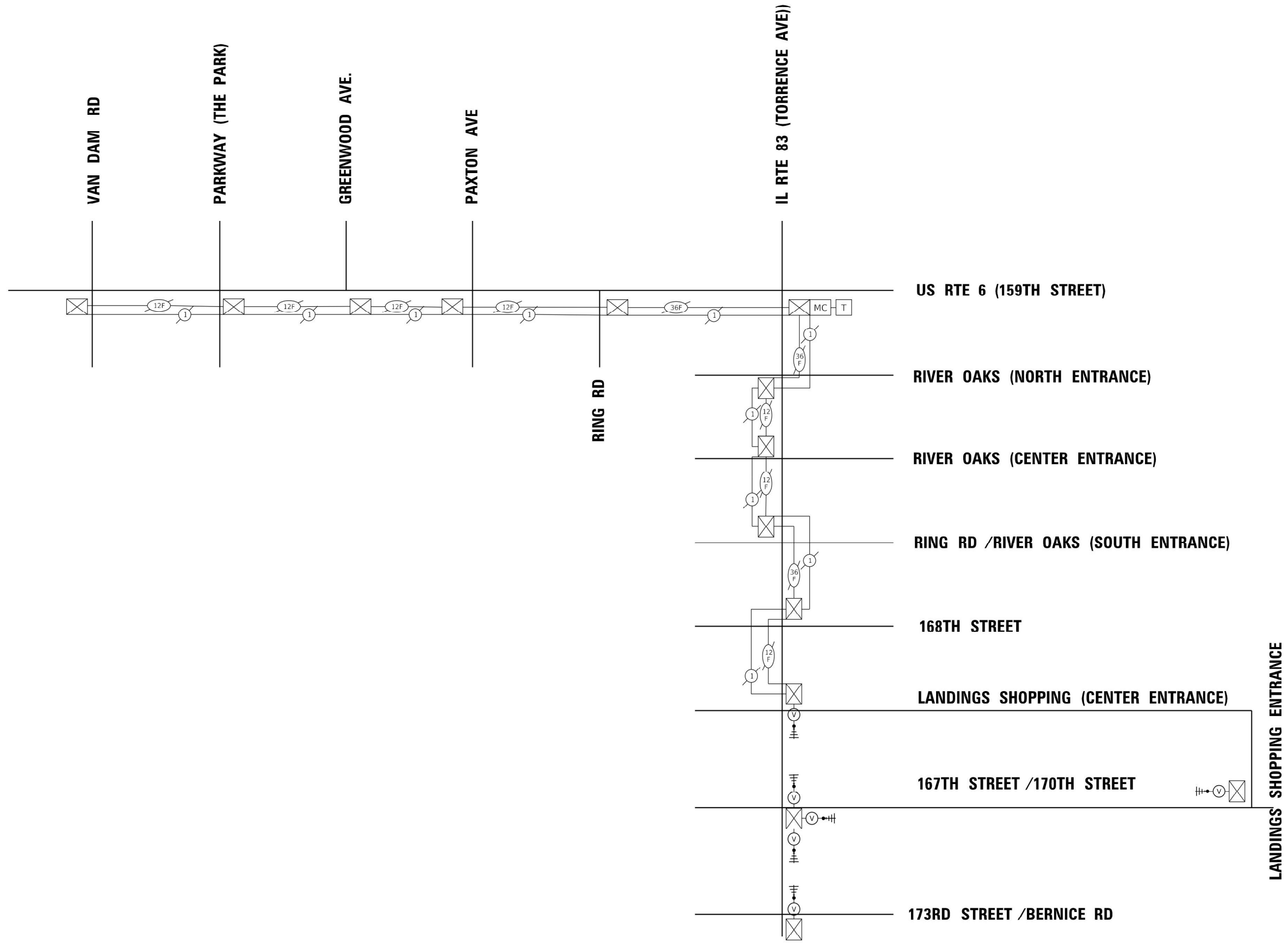
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	39
CONTRACT NO. 62N35				

TS#195
 ECON 49

ILLINOIS FED. AID PROJECT

TS SHT NO. XX

MODEL: Default
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ECON 49

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	DRAWN - AV	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - KK	REVISED -
PLOT DATE = 9/1/2021	DATE - 8/23/2021	REVISED -

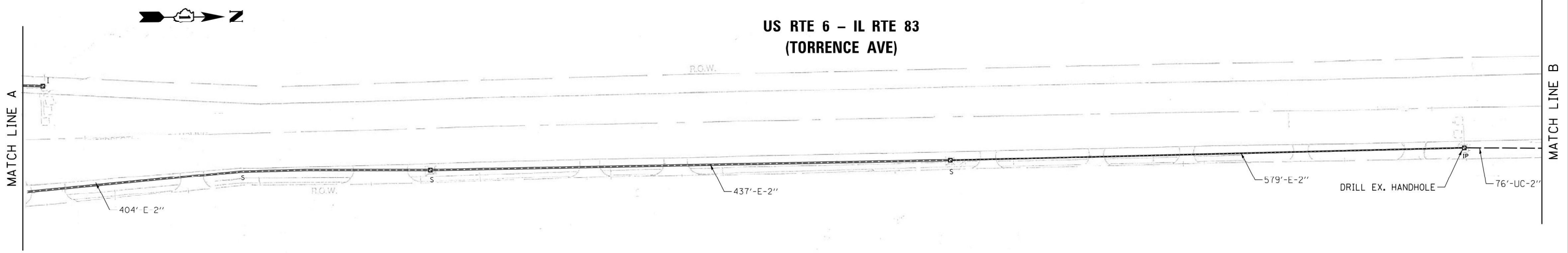
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
 US 6 /IL ROUTE 83 (TORRENCE AVE) AT 167TH /170TH ST

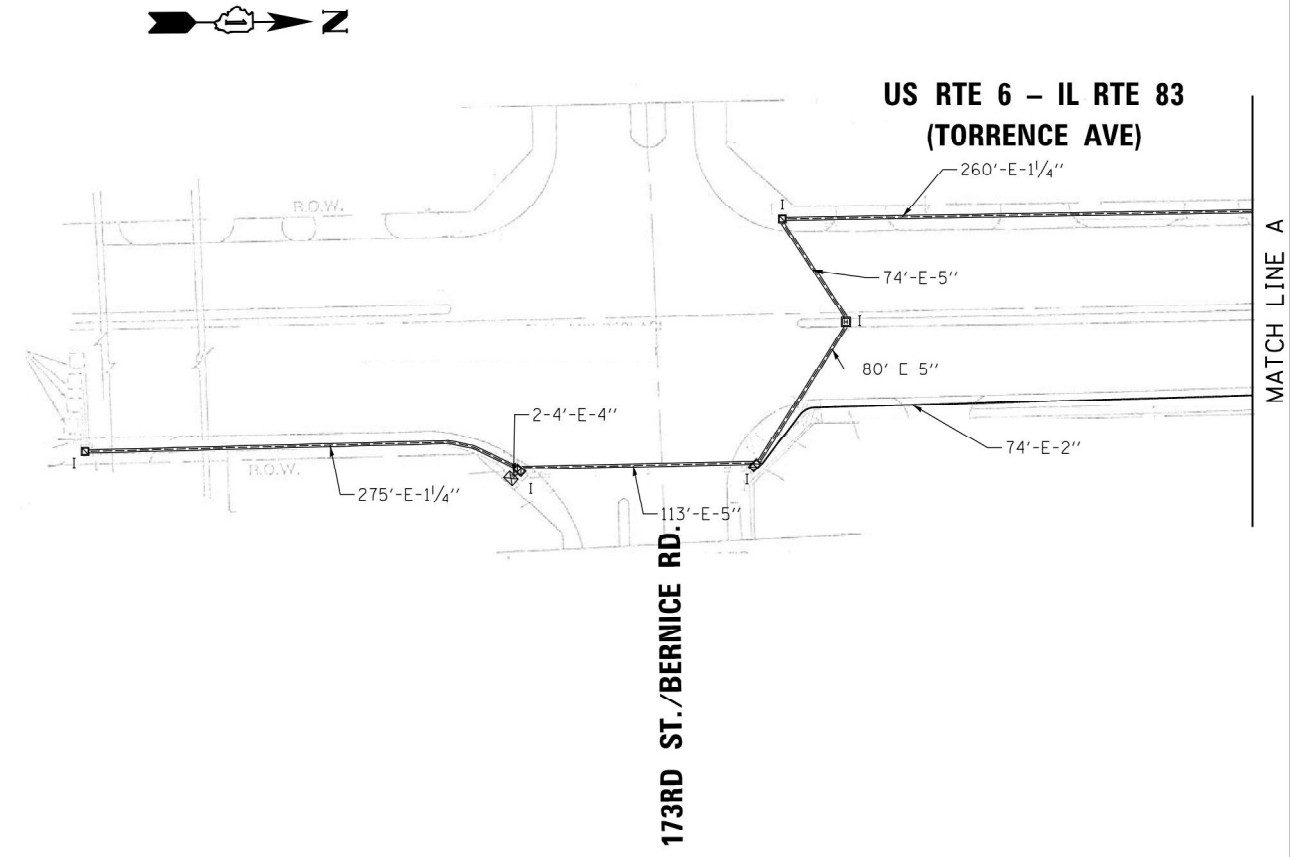
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-T5&SW	COOK	62	41
CONTRACT NO. 62N35				
ILLINOIS FED. AID PROJECT				

**US RTE 6 - IL RTE 83
(TORRENCE AVE)**



**US RTE 6 - IL RTE 83
(TORRENCE AVE)**



173RD ST./BERNICE RD.

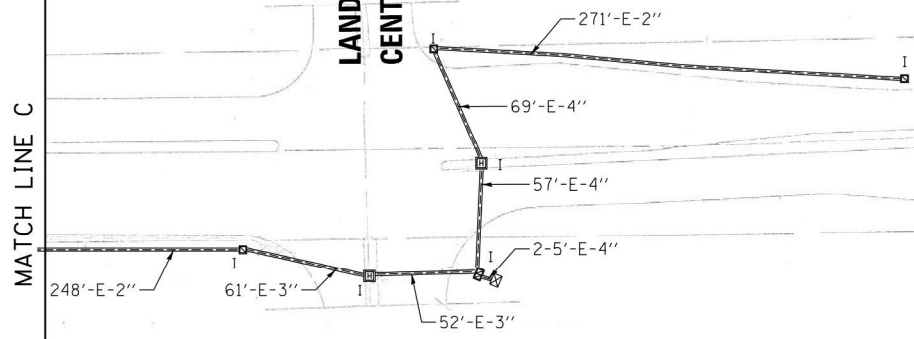
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FILE NAME = S:\WP\Design\AV\EMC\62N35 - US 6 - IL 83 (Torrence Ave) @ 167th-170th St - Interconnect	USER NAME = vargesa	DESIGNED - AV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN US 6 /IL RTE 83 (TORRENCE AVE) AT 167 /170TH ST	F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 42		
Default	PLOT SCALE = 100.0000' / in.	CHECKED - KK	REVISED -			SCALE:	SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 62N35				
	PLOT DATE = 9/1/2021	DATE - 8/23/2021	REVISED -			ILLINOIS FED. AID PROJECT						

US RTE 6 - IL RTE 83
(TORRENCE AVE)

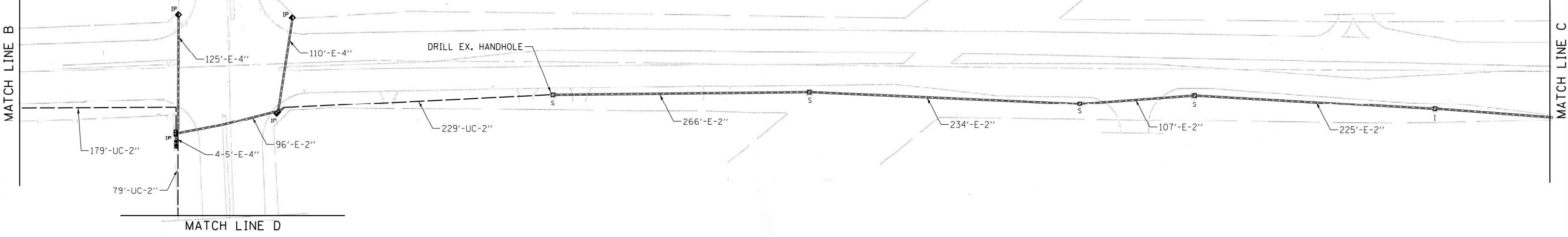
166TH ST.

LANDINGS SHOPPING
CENTER ENTRANCE



US RTE 6 - IL RTE 83
(TORRENCE AVE)

167TH ST./170TH ST.



ECON 49

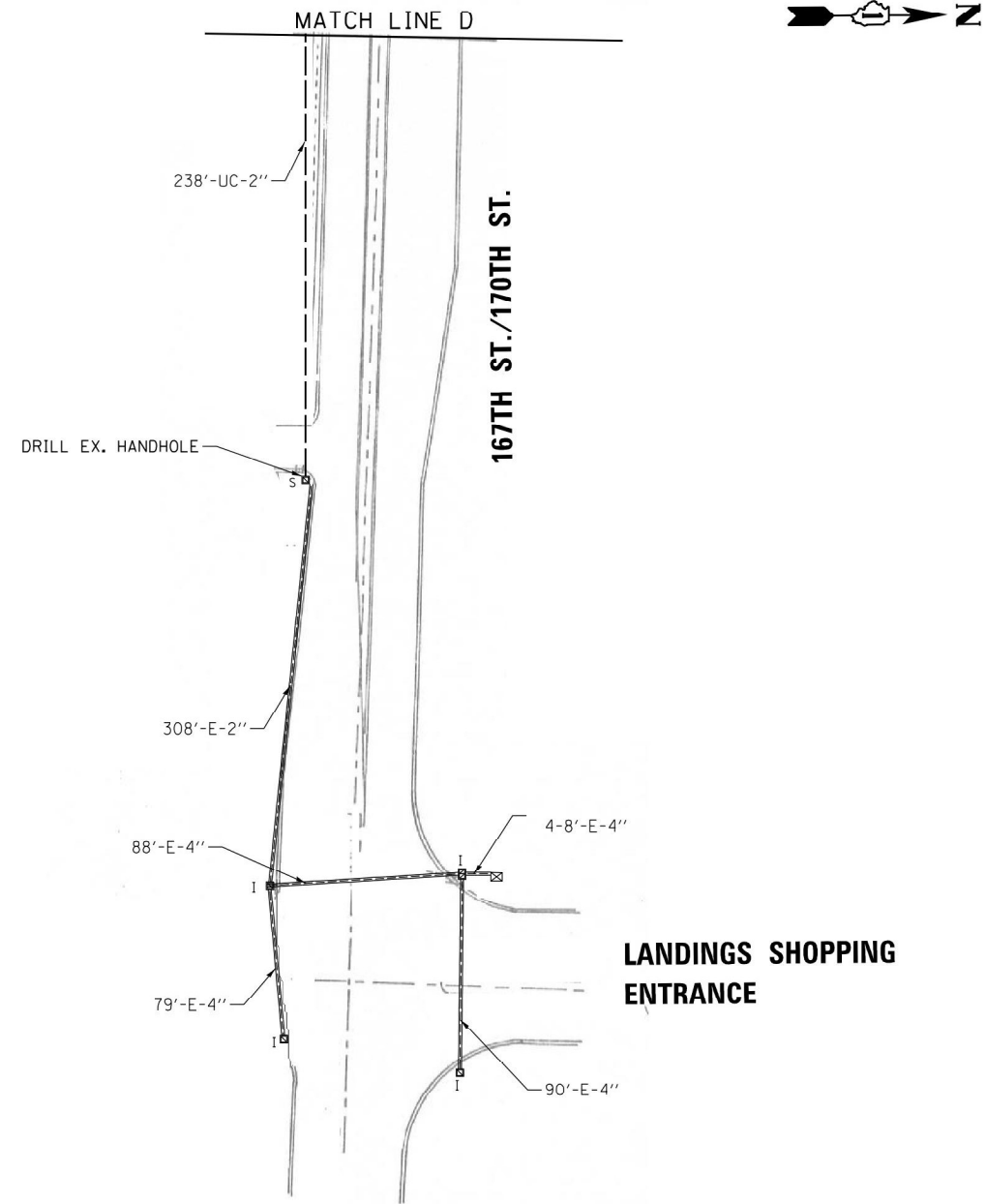
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Default	PLOT DATE = 9/1/2021	DATE - 8/23/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
US 6 /IL RTE 83 (TORRENCE AVE) AT 167 /170TH ST

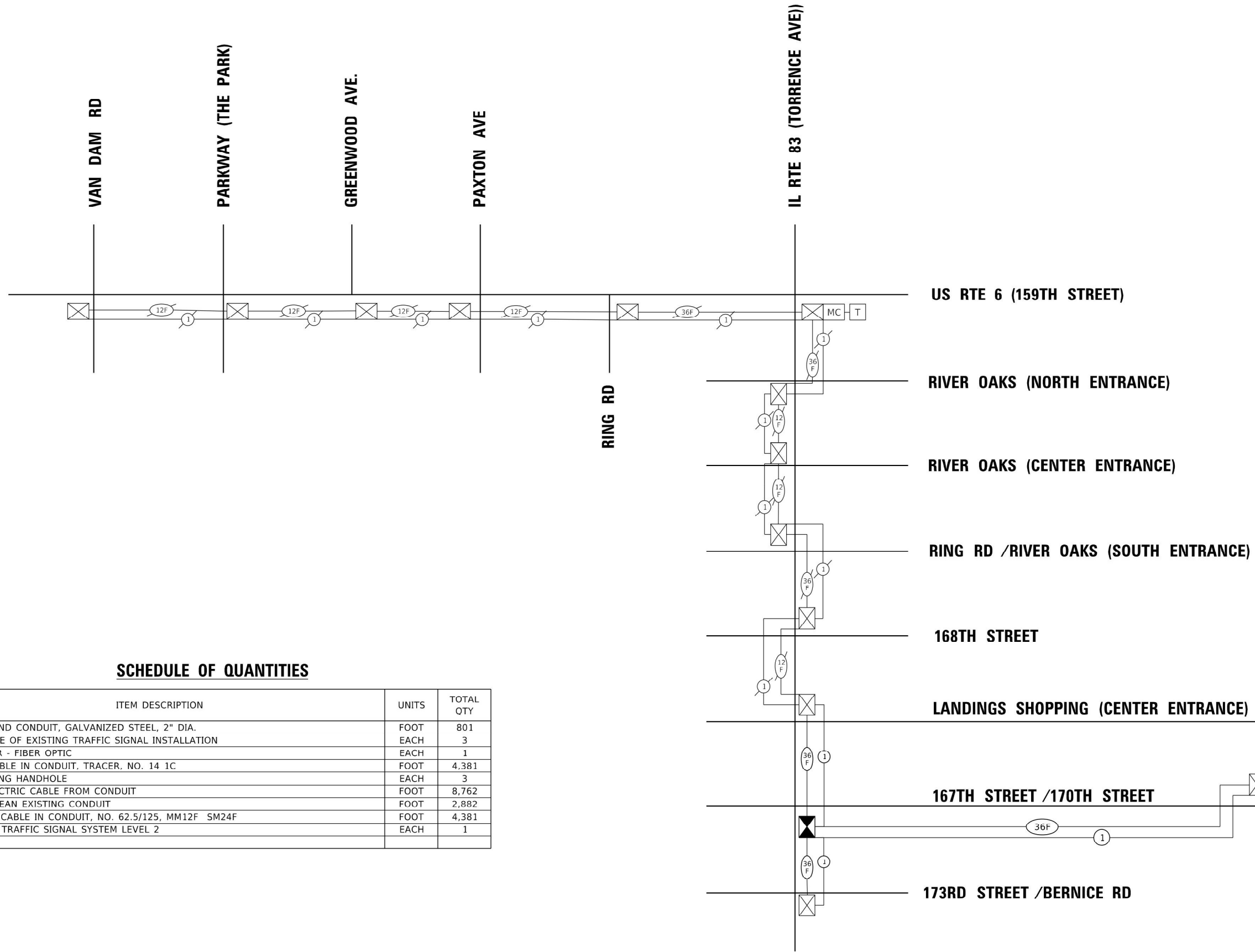
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	43
CONTRACT NO. 62N35				
ILLINOIS FED. AID PROJECT				



ECON 49

FILE NAME =	USER NAME = vargasa	DESIGNED - AV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN US 6 /IL RTE 83 (TORRENCE AVE) AT 167 /170TH ST	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\WP\Design\AV\EMC\62N35 - US 6 - IL 83	(Torrence Ave) @ 167th-170th St - Interconnect	62N35 - Proposed Interconnect Plan.dwg	REVISED -			358	2021-002-TS&SW	COOK	62	44	
Default	PLOT SCALE = 100.0000' / in.	CHECKED - KK	REVISED -			CONTRACT NO. 62N35					
	PLOT DATE = 9/2/2021	DATE - 8/23/2021	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:							
				SHEET OF SHEETS							
				STA. TO STA.							



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	801
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4,381
DRILL EXISTING HANDHOLE	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,762
ROD AND CLEAN EXISTING CONDUIT	FOOT	2,882
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	4,381
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

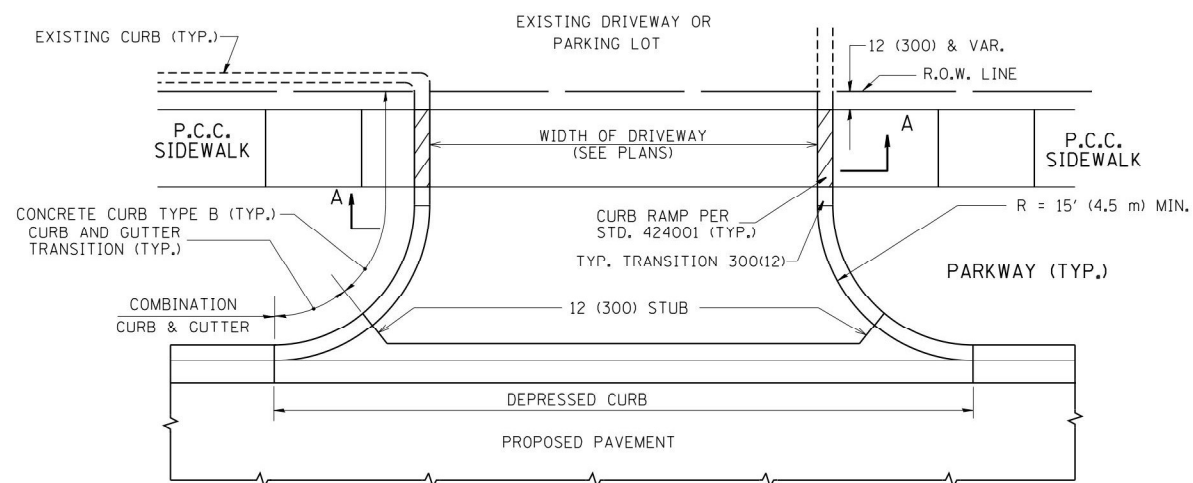
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PLOT SCALE = 100.0000' / in.	CHECKED - KK	REVISED -
PLOT DATE = 9/2/2021	DATE - 8/23/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

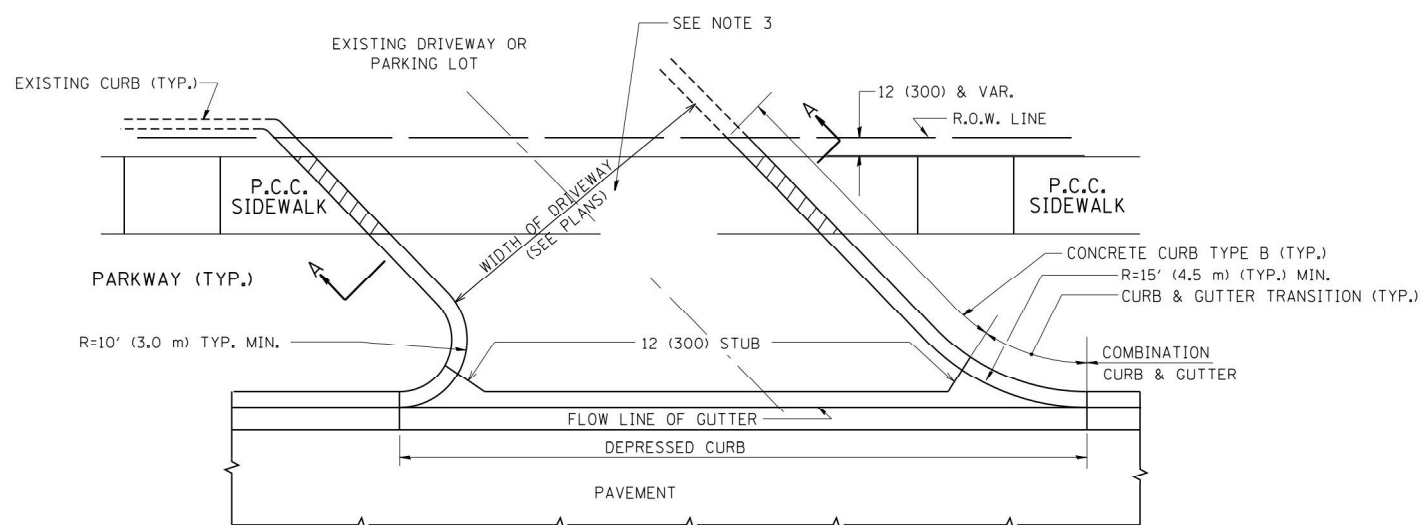
**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
 US 6 / IL ROUTE 83 (TORRENCE AVE) AT 167TH / 170TH ST**

SCALE: SHEET OF SHEETS STA. TO STA.

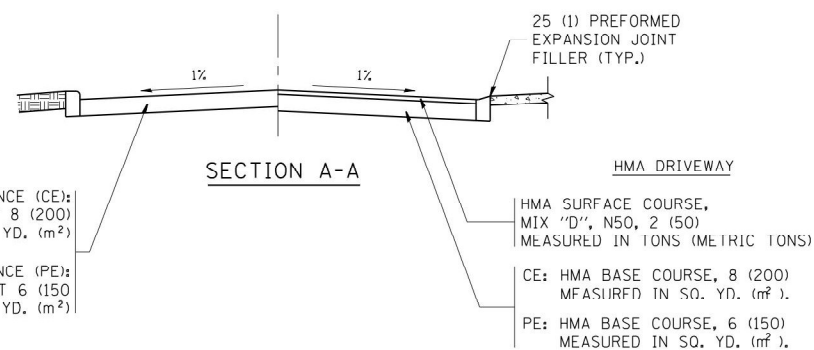
F.A.P. RTE. 358	SECTION 2021-002-T5&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N35	



WITH CONCRETE CURB, TYPE B

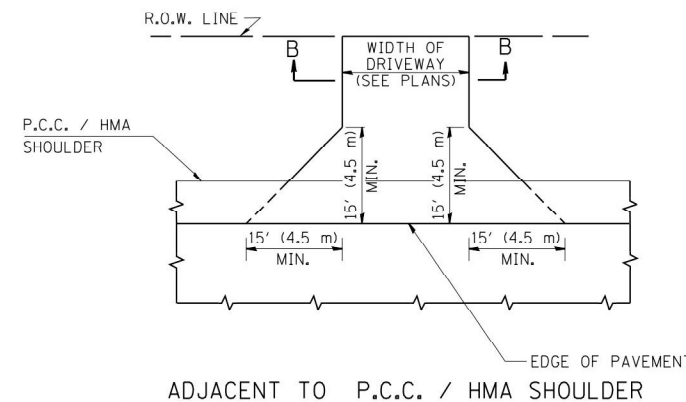


WITH CONCRETE CURB, TYPE B

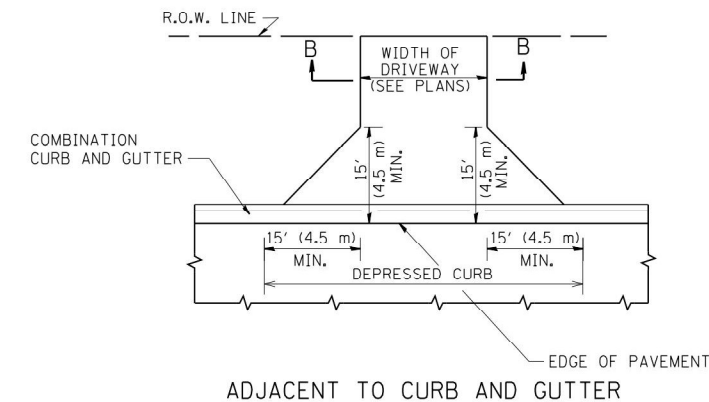


RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE):
 P.C.C. DRIVEWAY PAVEMENT 8 (200)
 MEASURED IN SQ. YD. (m²)
 NON-COMMERCIAL ENTRANCE (PE):
 P.C.C. DRIVEWAY PAVEMENT 6 (150)
 MEASURED IN SQ. YD. (m²)

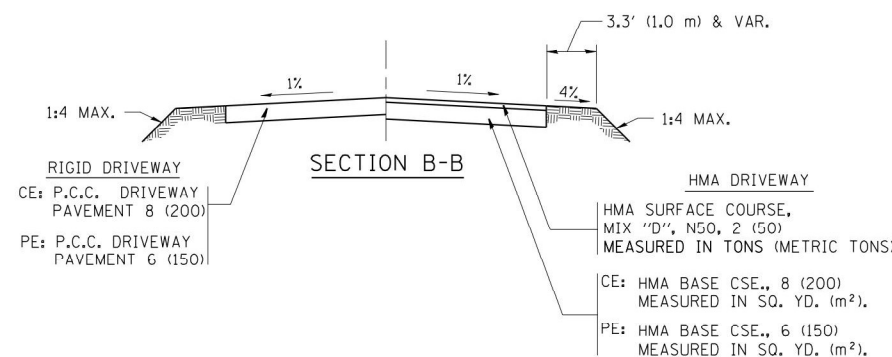
HMA DRIVEWAY
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²).
 PE: HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²).



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



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. (m²).

GENERAL NOTES:

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

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

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

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

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

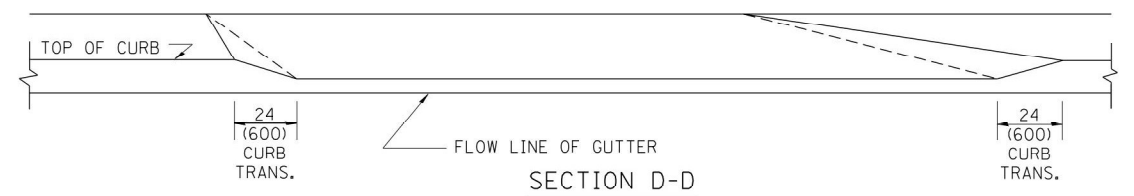
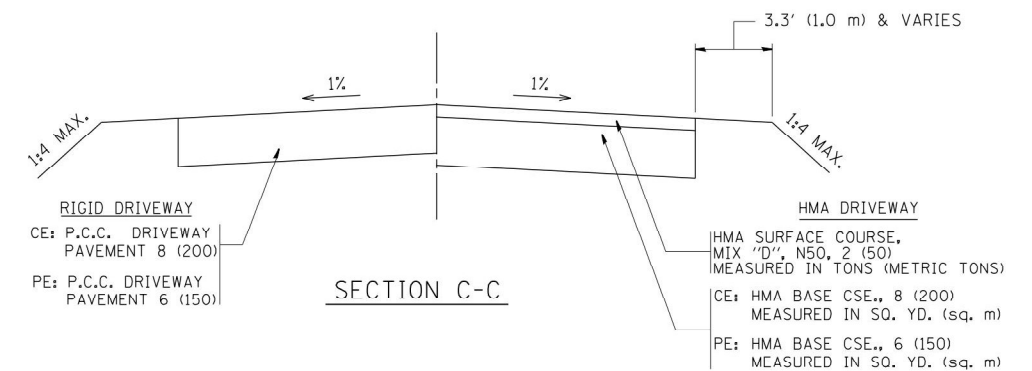
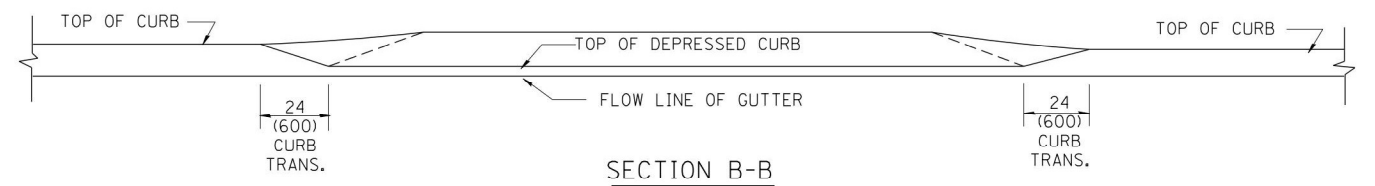
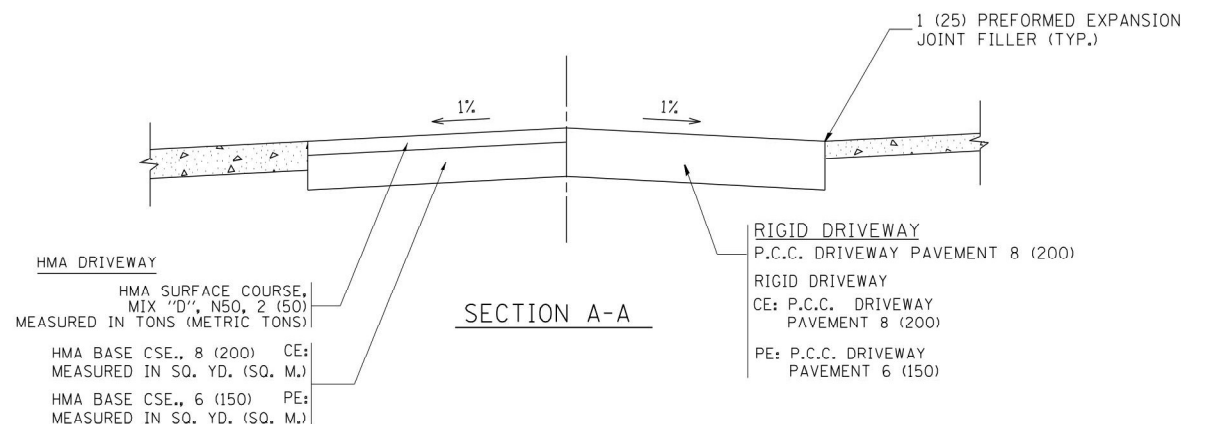
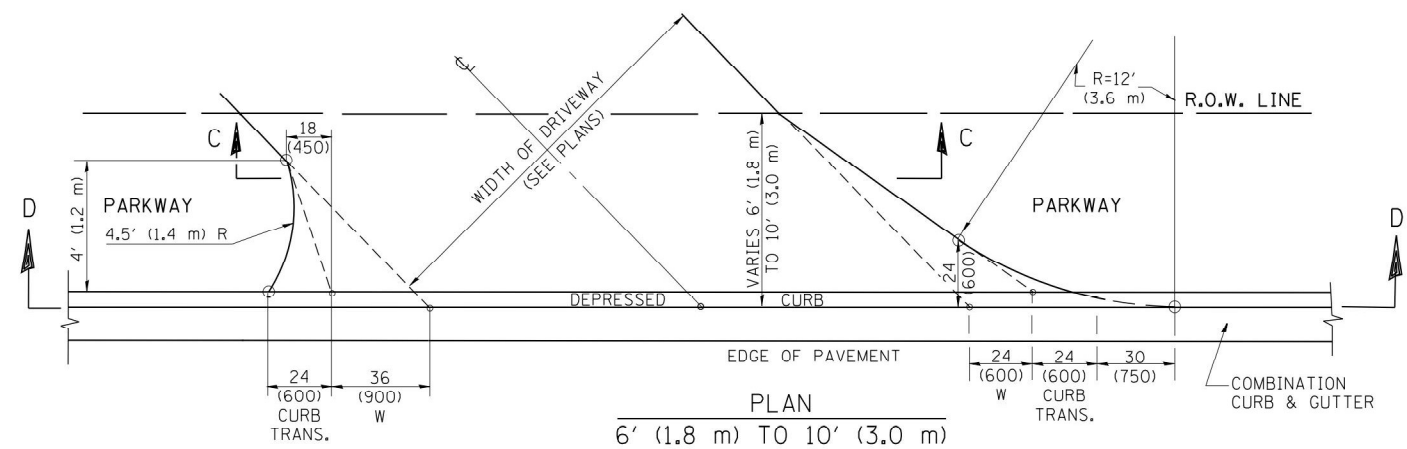
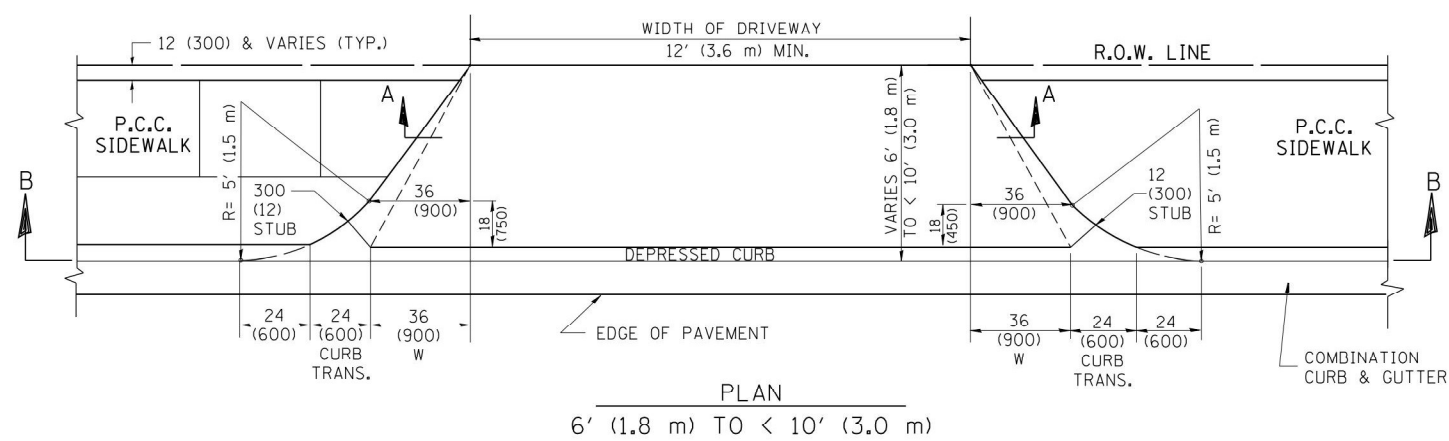
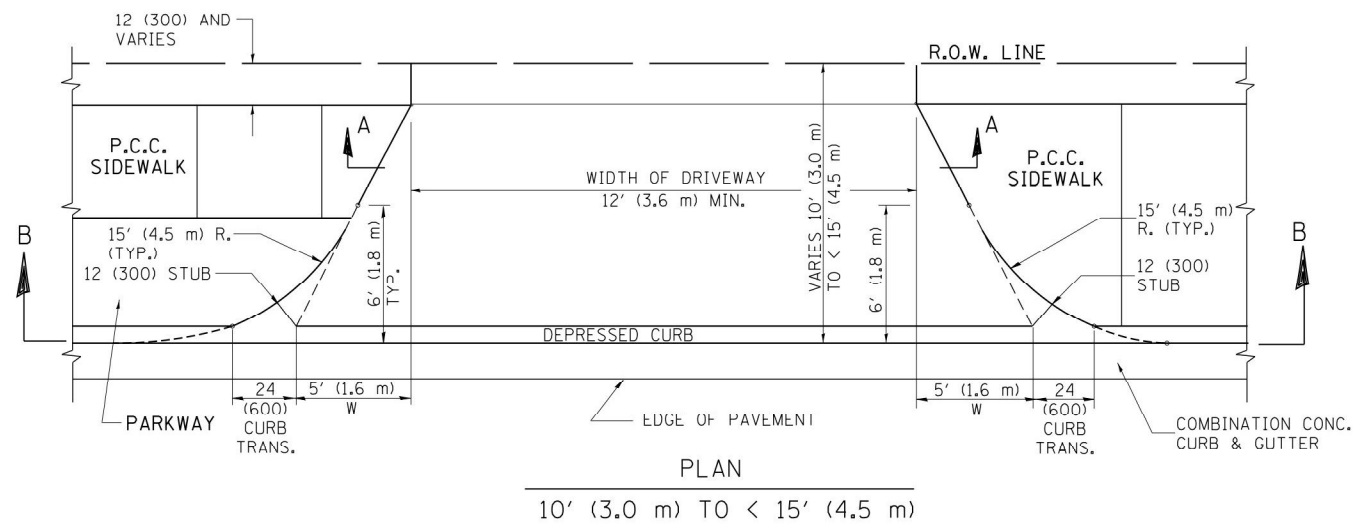
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = lryso	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
ca:\pw\work\p\idot\lryso\d0108315\bd01.dgn		DRAWN -	REVISED - R. BORO 01-01-07
		CHECKED -	REVISED - R. BORO 06-11-08
		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' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	46
BD0156-07 (BD-01)		CONTRACT NO. 62N35		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

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

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

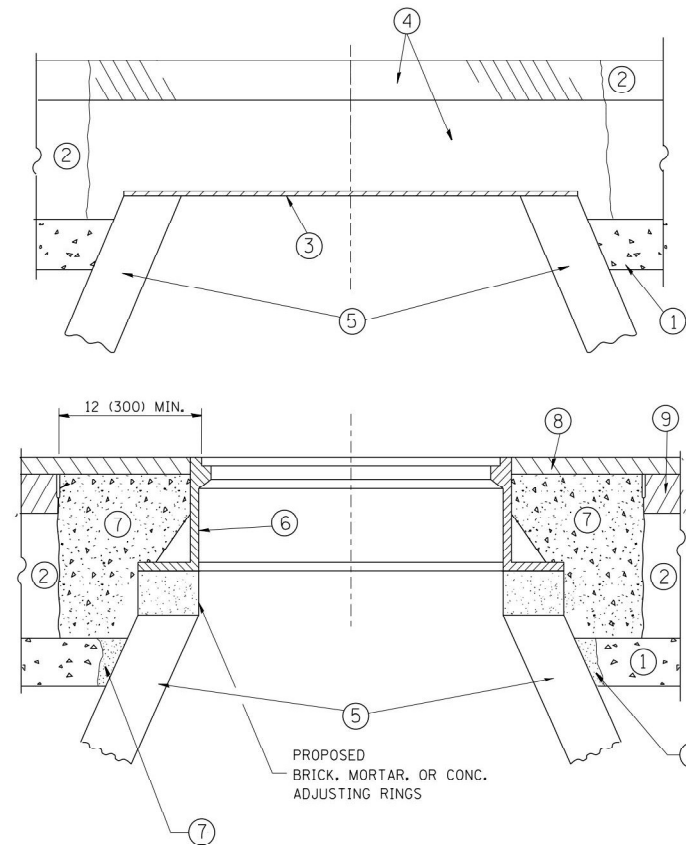
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = lryso	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
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	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 10/28/2011	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' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	47
BD400-02 (BD-02)			CONTRACT NO. 62N35	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

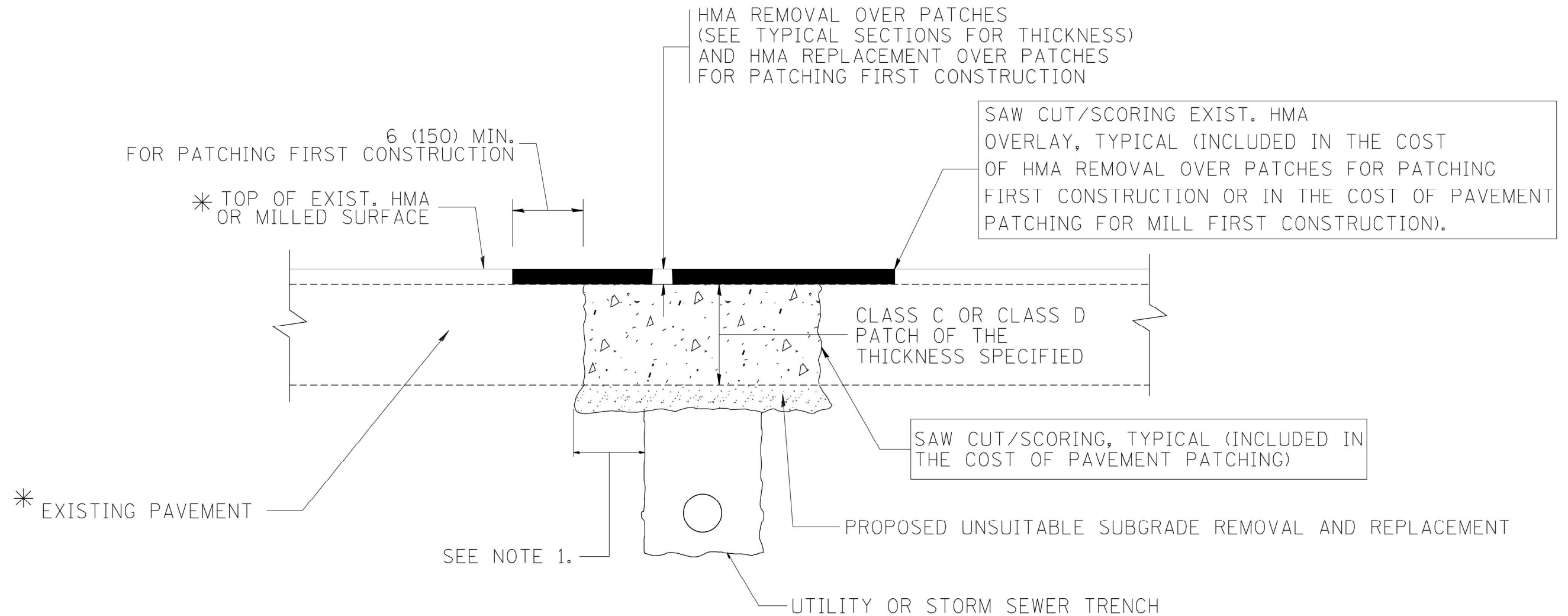
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
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	PLLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2020-002-TS&SW	COOK	62	48
BD600-03 (BD-8)		CONTRACT NO. 62N35		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

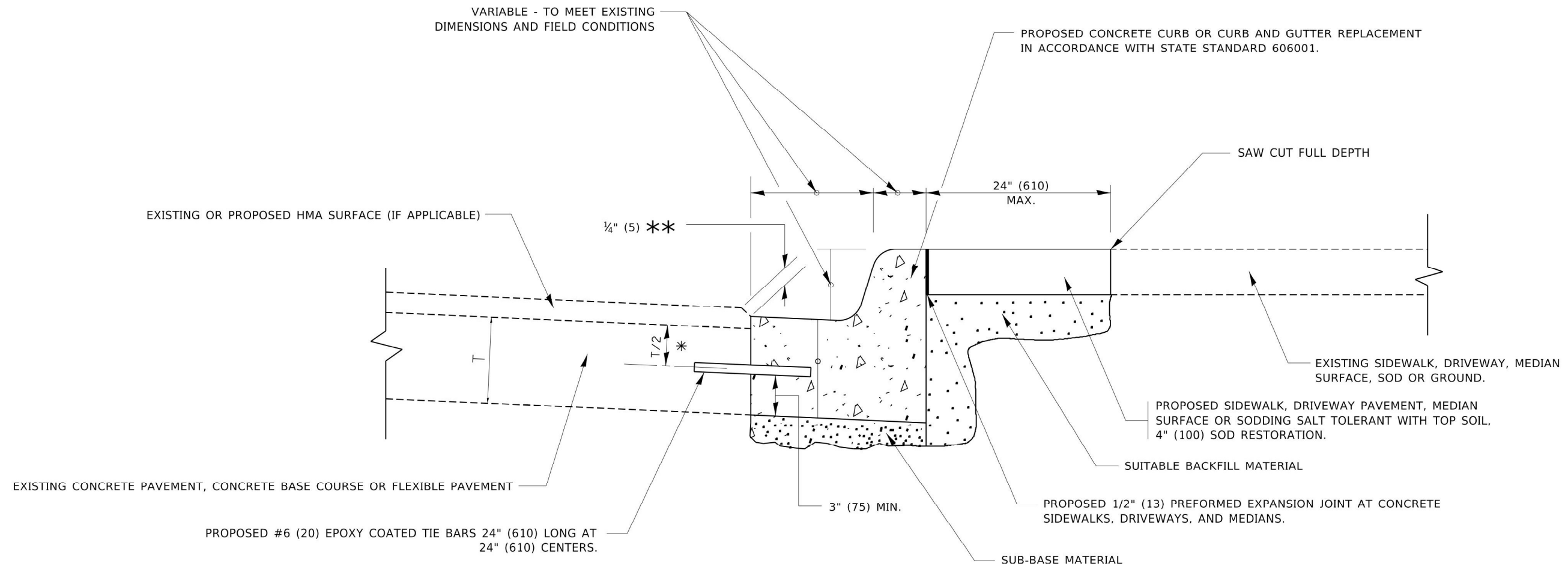
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07		358	2020-002-TS&SW	COOK	62	49			
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)		CONTRACT NO. 62N35					
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



- * 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.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

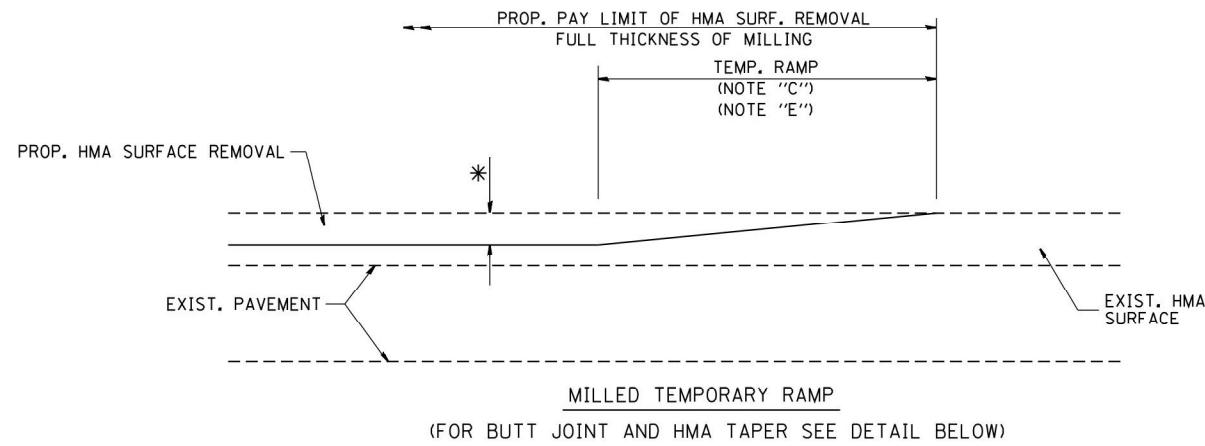
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USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

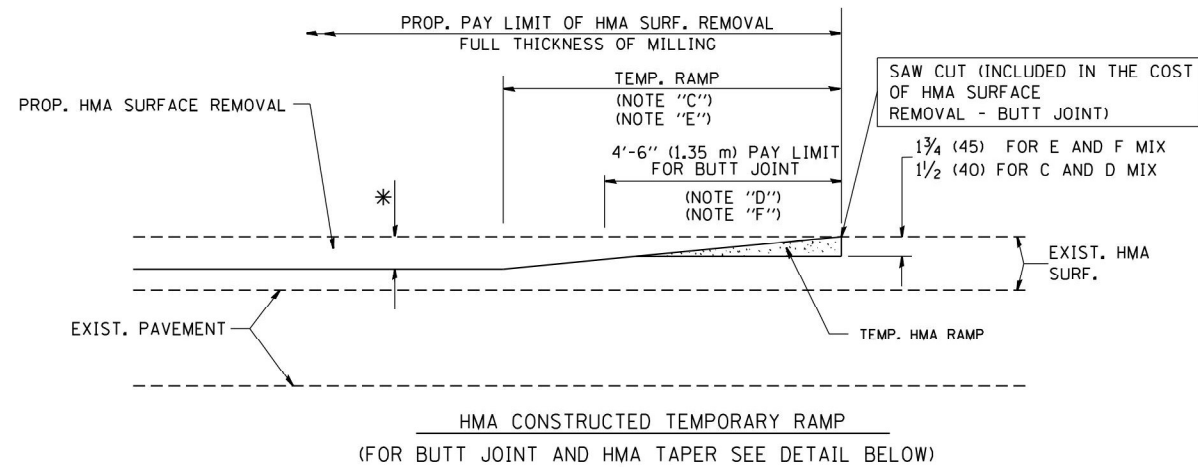
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 358	SECTION 2020-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 50
BD600-06 (BD-24)		CONTRACT NO. 62N35		
ILLINOIS FED. AID PROJECT				

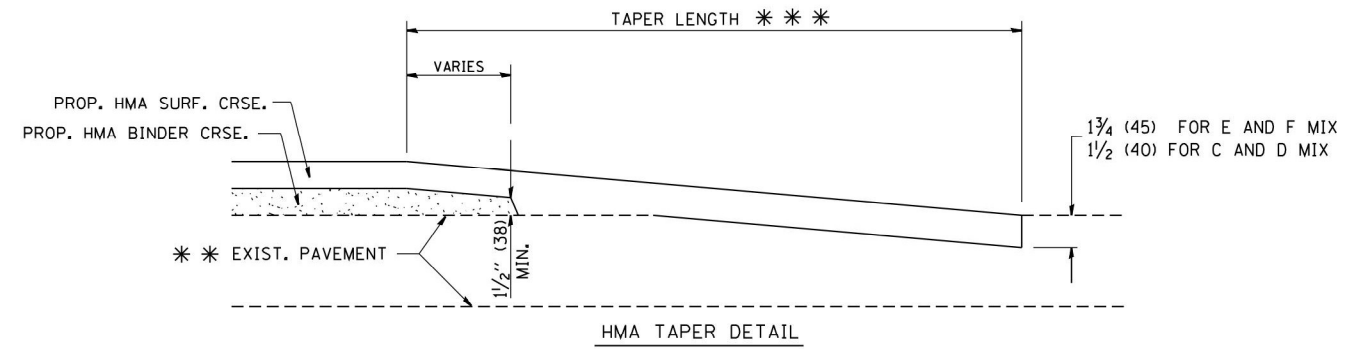
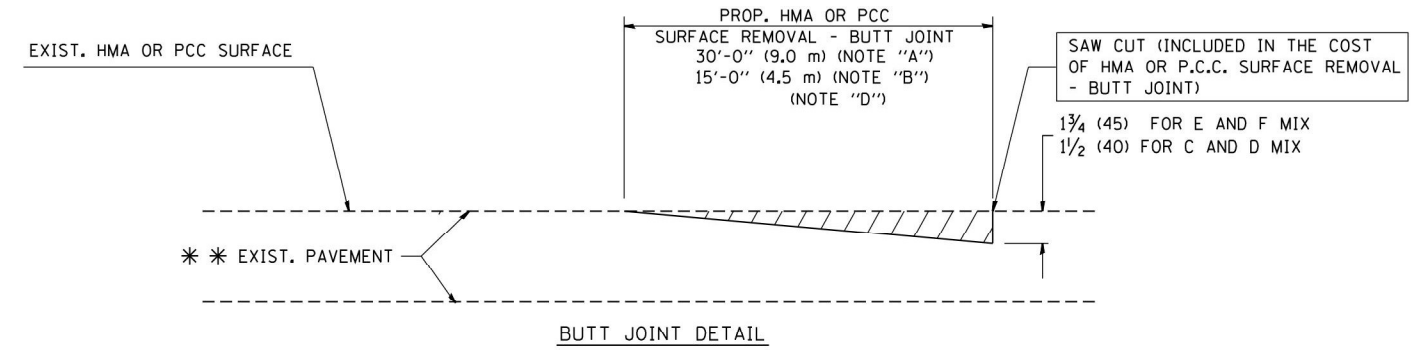


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

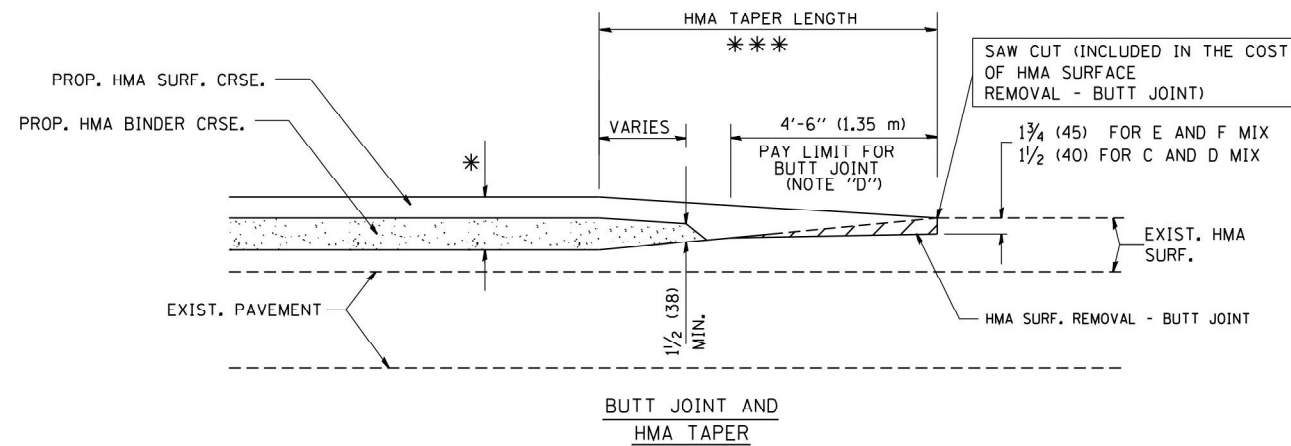
NOTES

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

BASIS OF PAYMENT:

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

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



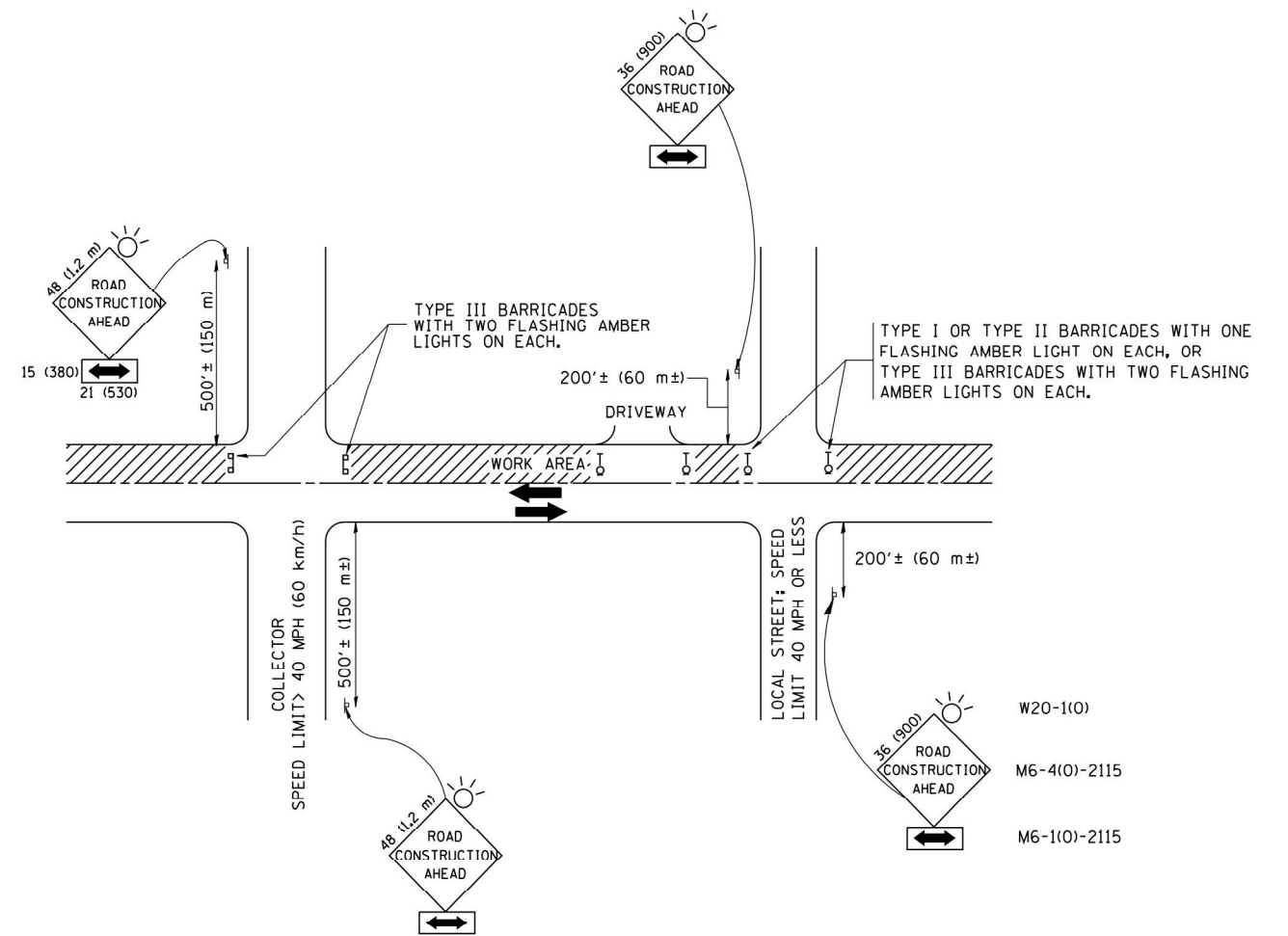
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	51
BD400-05 BD32		CONTRACT NO. 62N35		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

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. 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).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

- W20-1(0)
- M6-4(0)-2115
- M6-1(0)-2115

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

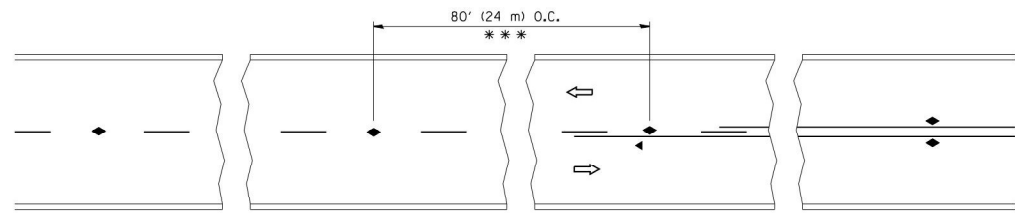
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

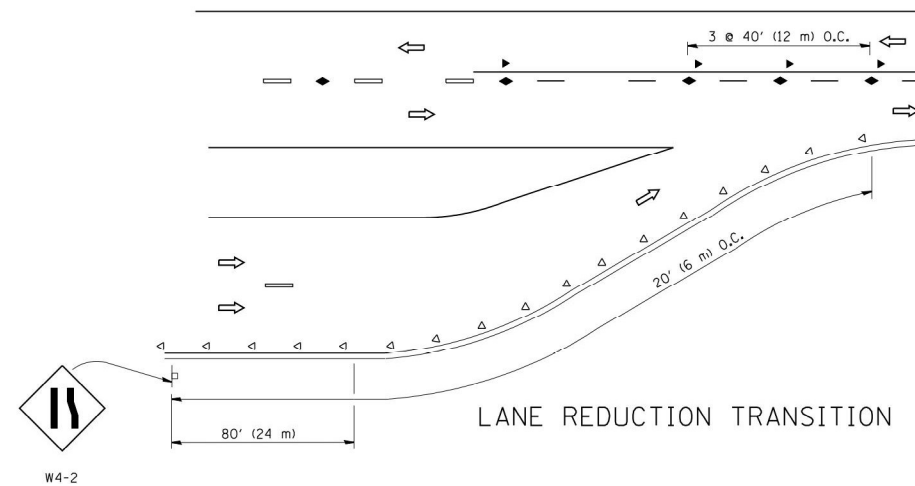
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62N35	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

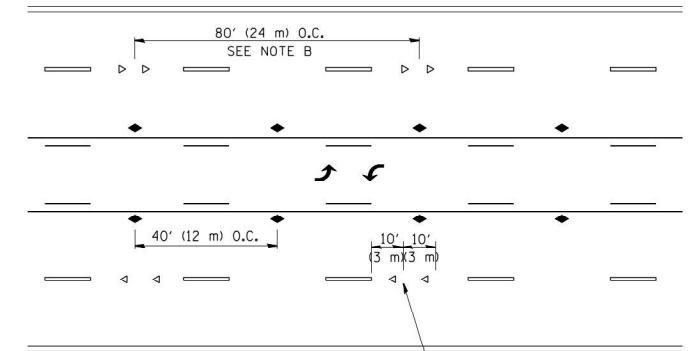


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

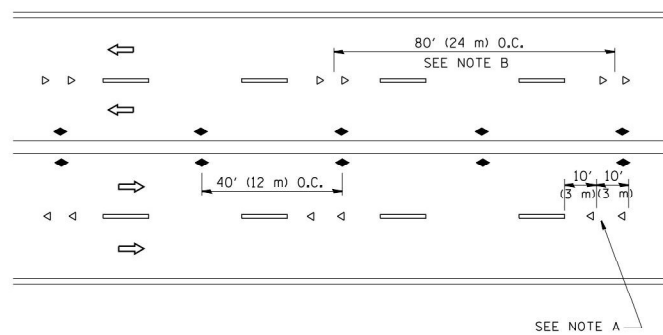
TWO-LANE/TWO-WAY



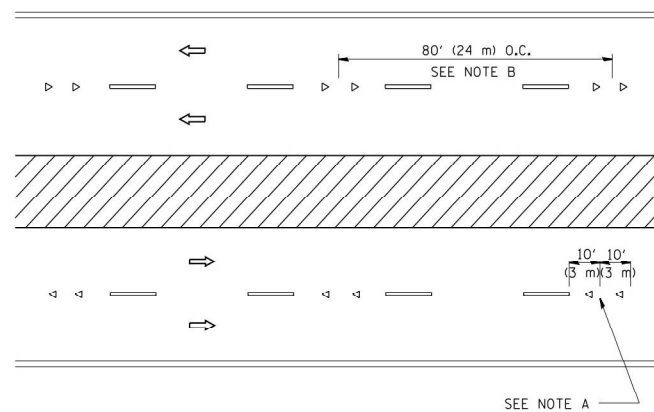
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

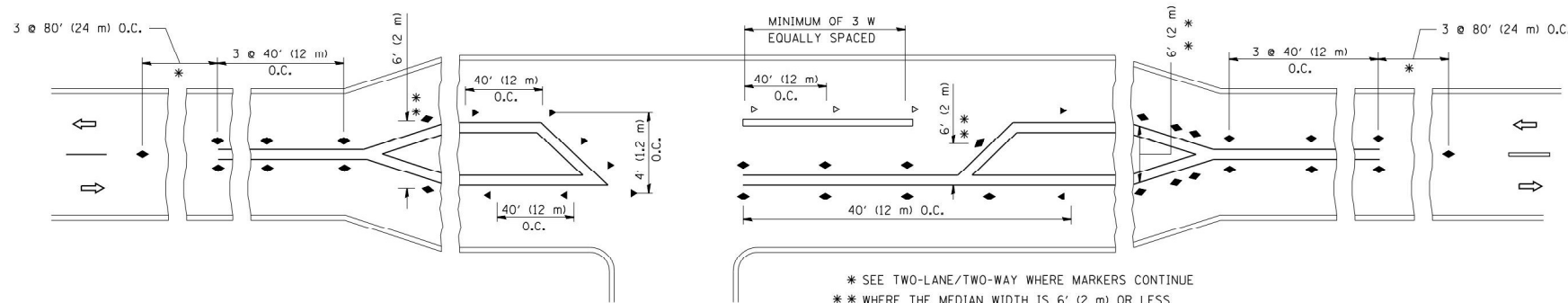
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE CENTER OF THE TWO CURVE SPACINGS.

SYMBOLS

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

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS
 IF TWO-WAY MARKERS.

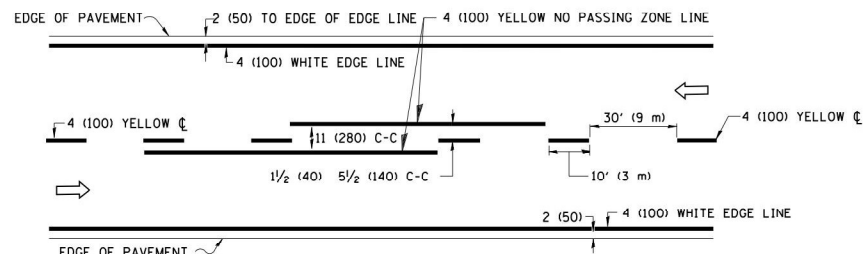
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

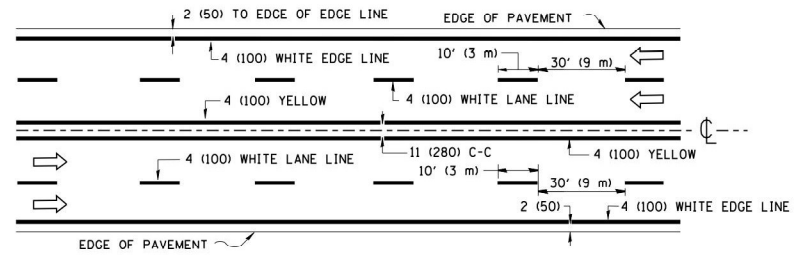
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

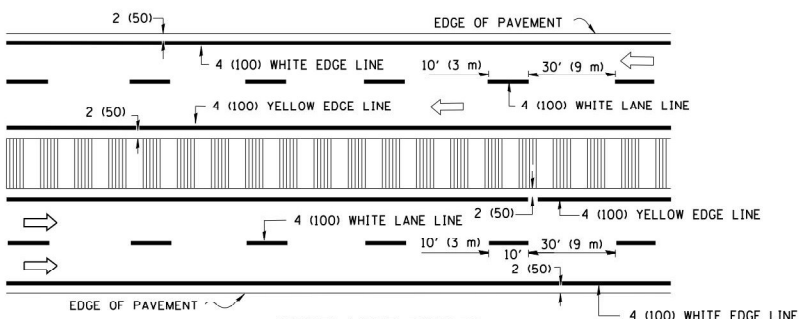
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	53
TC-11			CONTRACT NO. 62N35	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

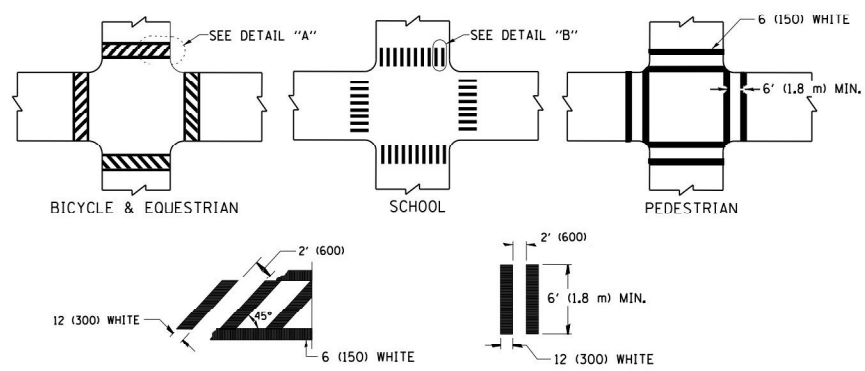


MULTI-LANE UNDIVIDED



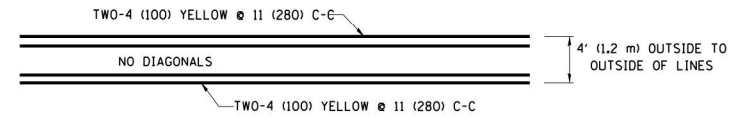
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

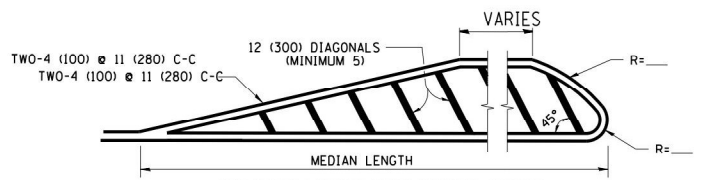


DETAIL "A" DETAIL "B"
TYPICAL CROSSWALK MARKING

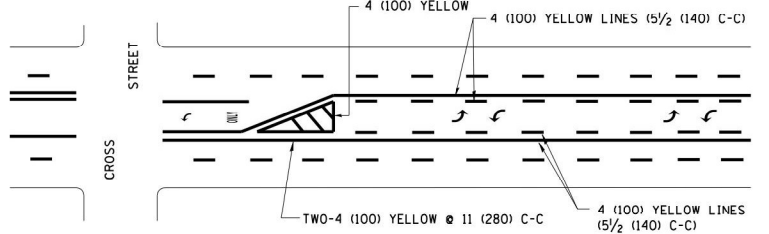
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



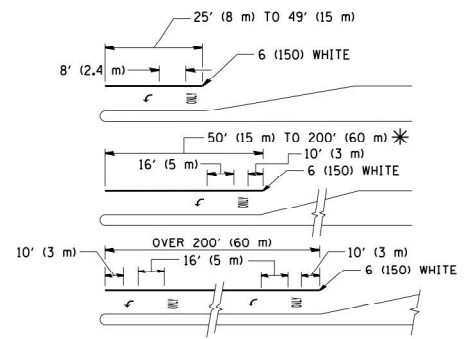
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



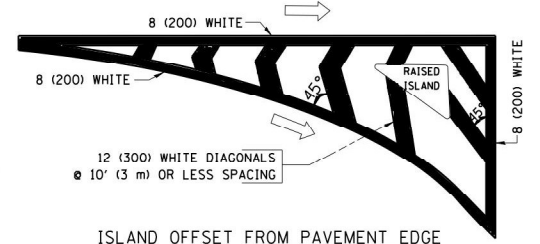
MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING



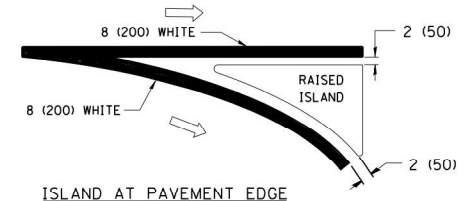
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

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

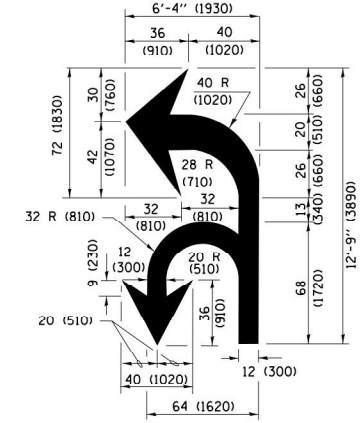
TYPICAL LEFT (OR RIGHT) TURN LANE
TYPICAL TURN LANE MARKING



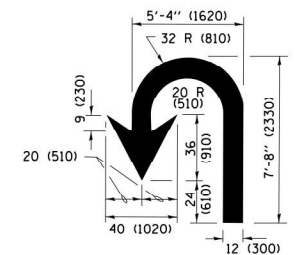
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE, FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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 (30 MPH (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.

FILE NAME =	USER NAME = l1szekrf	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
pw\1\084EBID\INTEG\111nois.gov\PIW001\Documents\IDOT Offices\District 1\Projects\Dist	DRAWN\CADData\CADsheets\tc13.dgn	CHECKED -	REVISED - C. JUICIUS 09-09-09
Default	PLOT SCALE = 50.0000' / in.	DATE - 03-19-90	REVISED - C. JUICIUS 07-01-13
	PLOT DATE = 12/21/2015		REVISED - C. JUICIUS 12-21-15

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	54
TC-13		CONTRACT NO. 62N35		
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

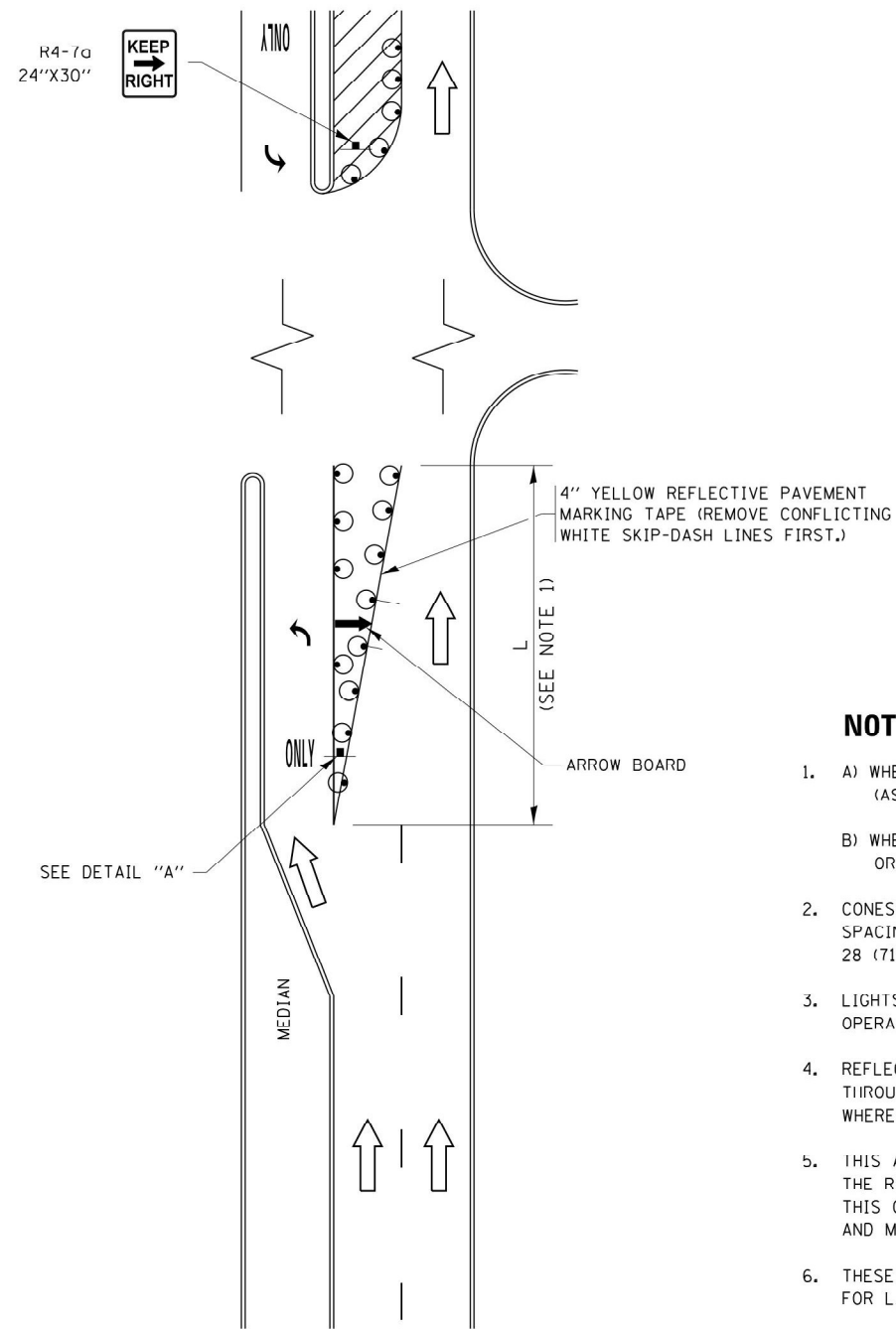


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

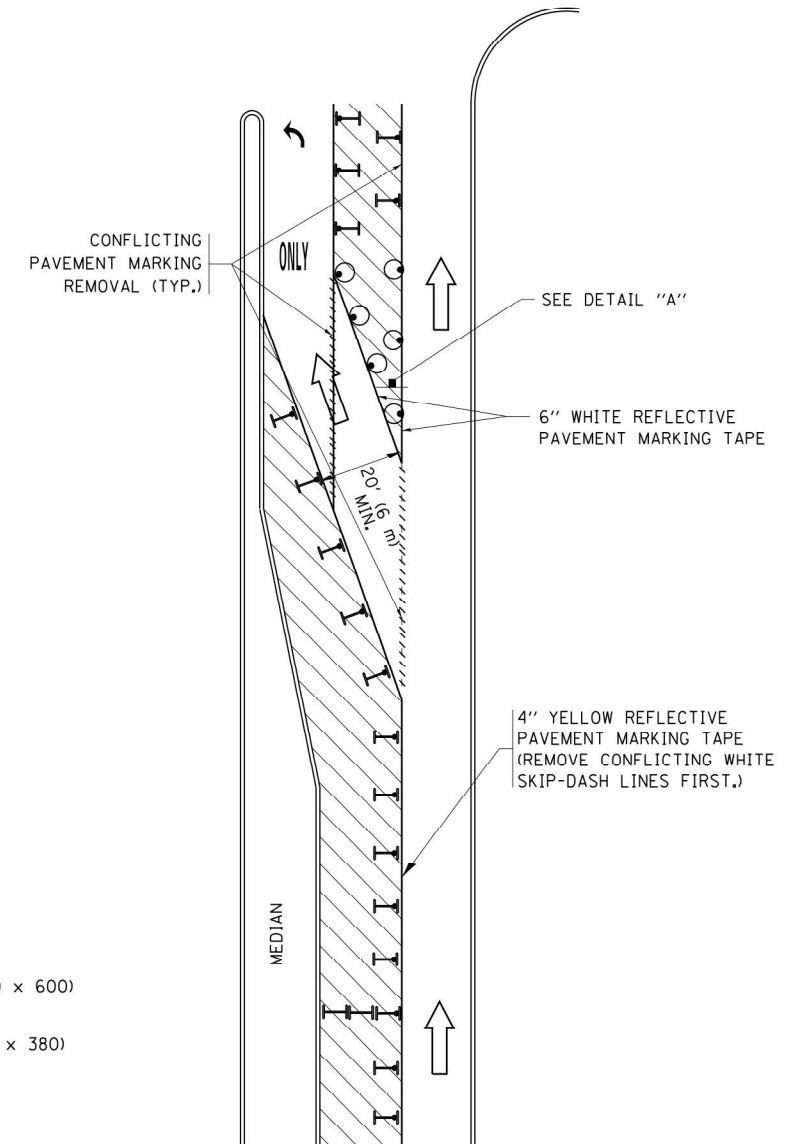


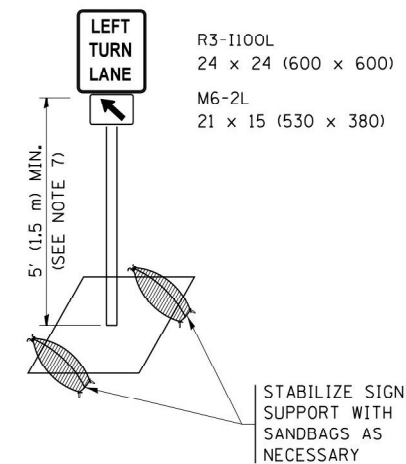
FIGURE 2

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:

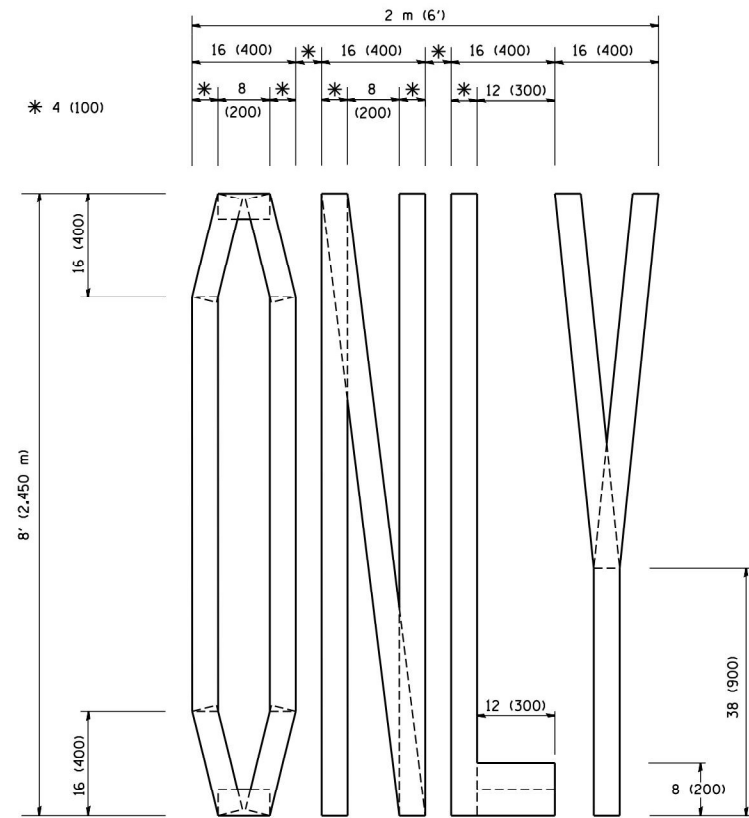
1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. 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" R3-1100R 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 PRE-REQUIREMENTS.
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.



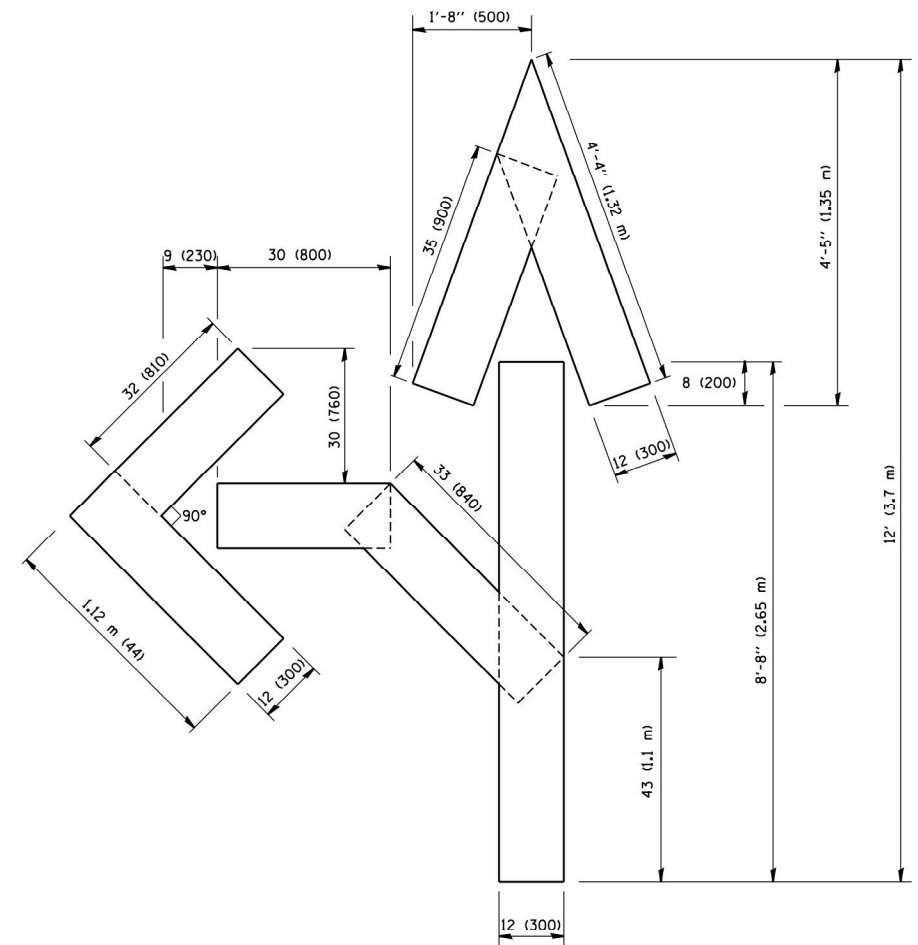
DETAIL A

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

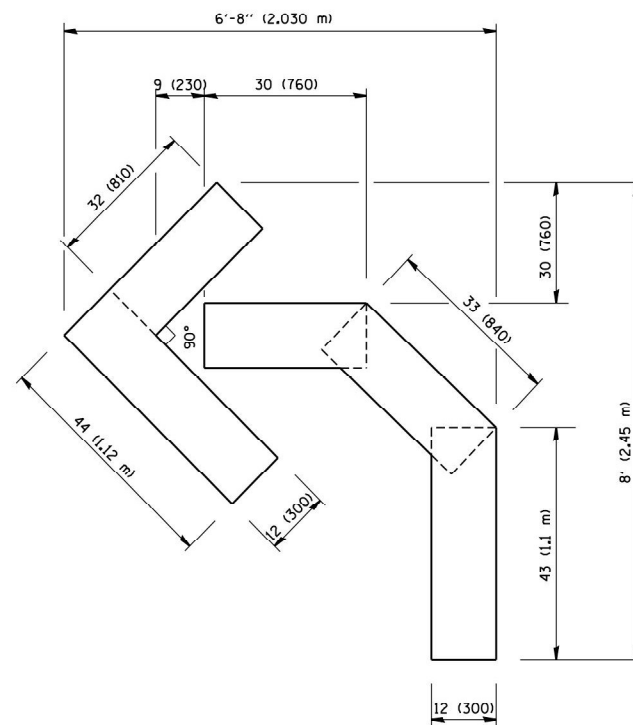
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pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	358			2020-002-TS&SW	COOK	62	55	
Default	PLT SCALE = 50.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16			TC-14		CONTRACT NO. 62N35		
	PLT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



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

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

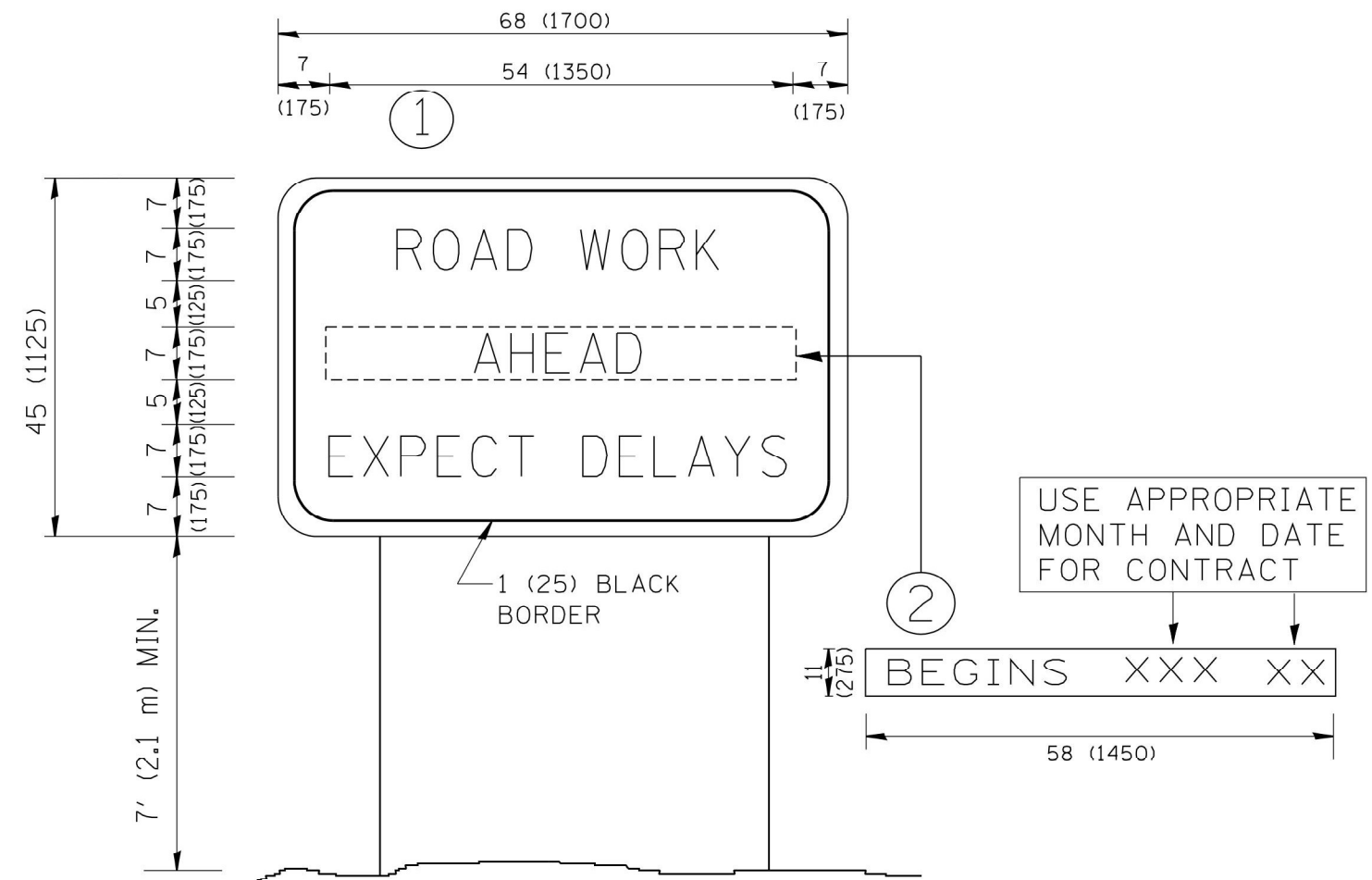
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	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	56
TC-16			CONTRACT NO. 62N35	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

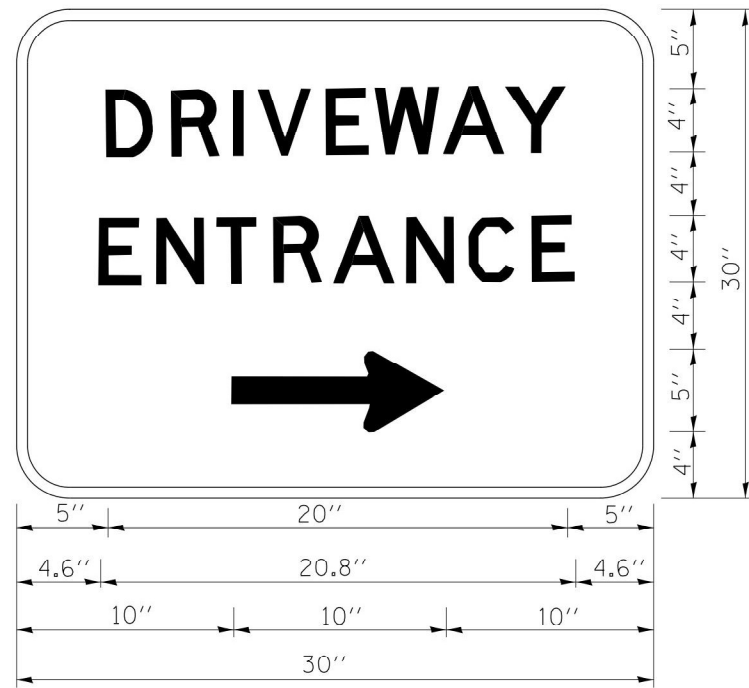
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	57
TC-22		CONTRACT NO. 62N35		
FED. ROAD DIST. NO. 1 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".

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ct:\pw\work\p\dot\gaglianob\d0108315\to	26.dgn	DRAWN -	REVISED -
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	PLOT DATE = 12/13/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

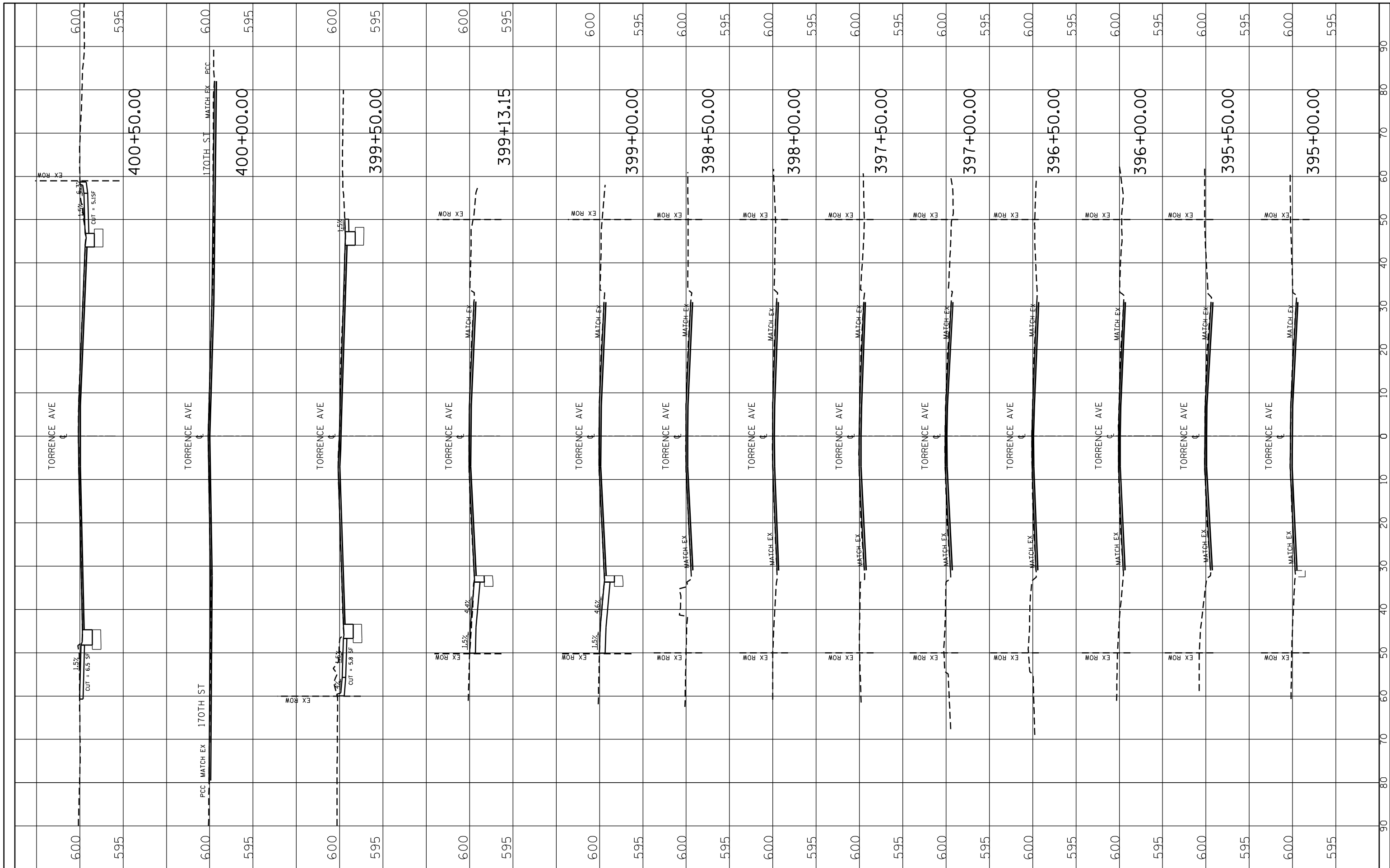
DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	58
TC-26		CONTRACT NO. 62N35		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



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 CHECKED -
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 PLOT DATE = 10/14/2021

REVISOR -
 REVISOR -
 REVISOR -
 REVISOR -

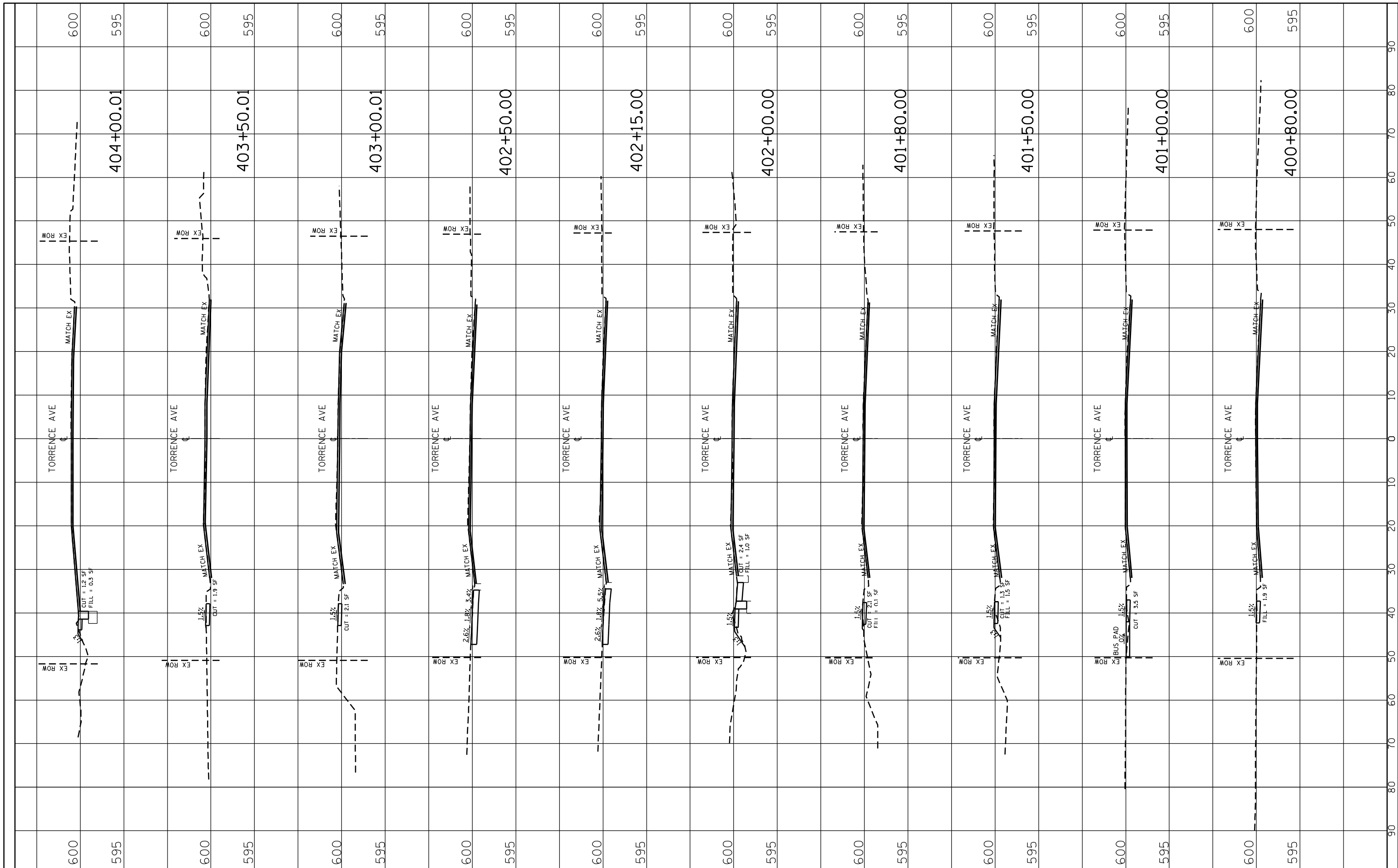
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTION - TORRENCE AVE
 SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 358 SECTION 2021-002-TS&SW COUNTY COOK TOTAL SHEETS 62 SHEET NO. 59
 CONTRACT NO. 62N35
 ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEY NO.	DATE
PLOTTED	PLOTTED	DATE
TEMPLATE	TEMPLATE	DATE
AREAS CHECKED	AREAS CHECKED	DATE

ORIGINAL SURVEY NO.	SURVEY NO.	DATE
PLOTTED	PLOTTED	DATE
TEMPLATE	TEMPLATE	DATE
AREAS CHECKED	AREAS CHECKED	DATE



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 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 10/14/2021

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

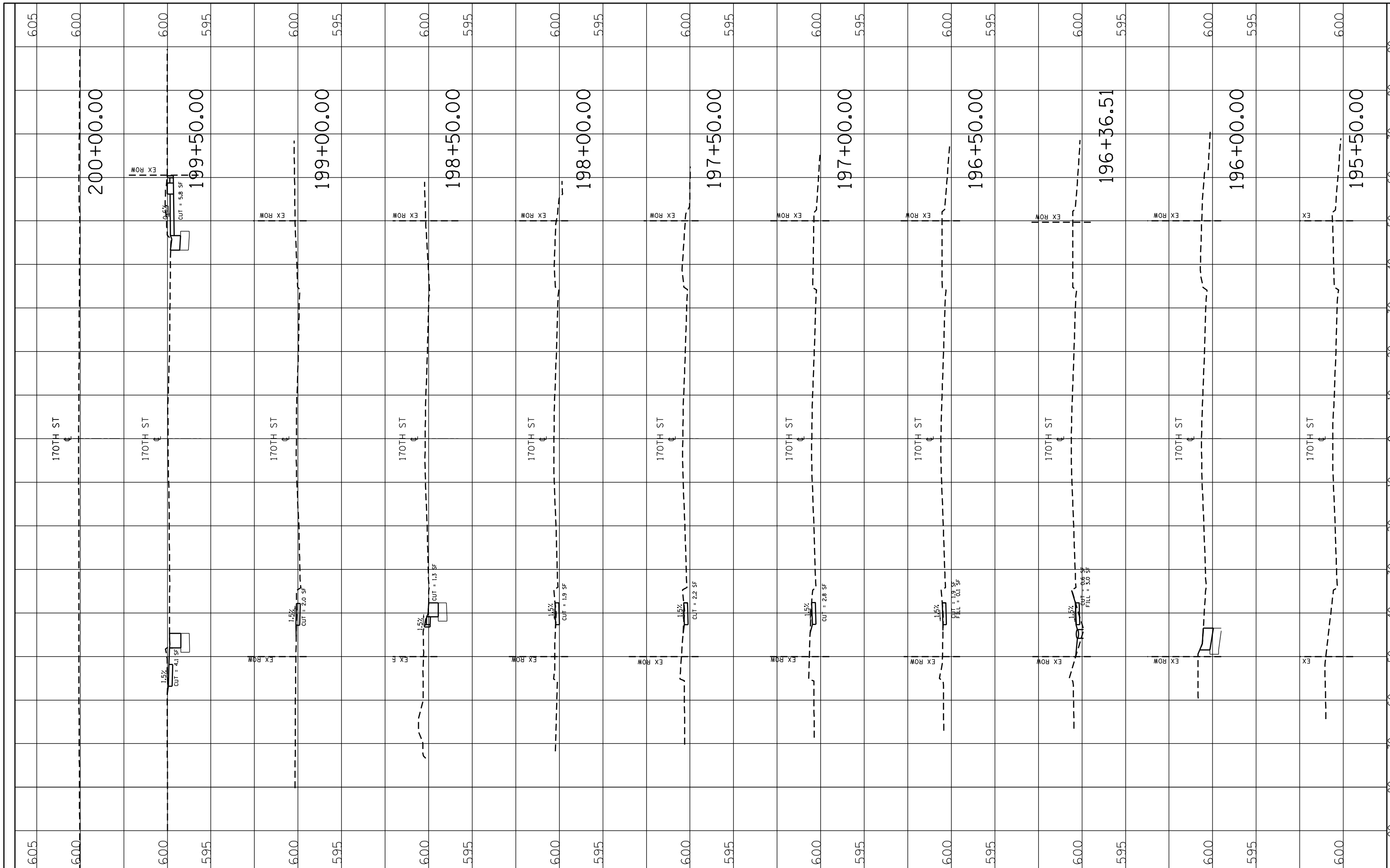
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTION - TORRENCE AVE
 SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 60
CONTRACT NO. 62N35				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/14/2021

DESIGNED -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

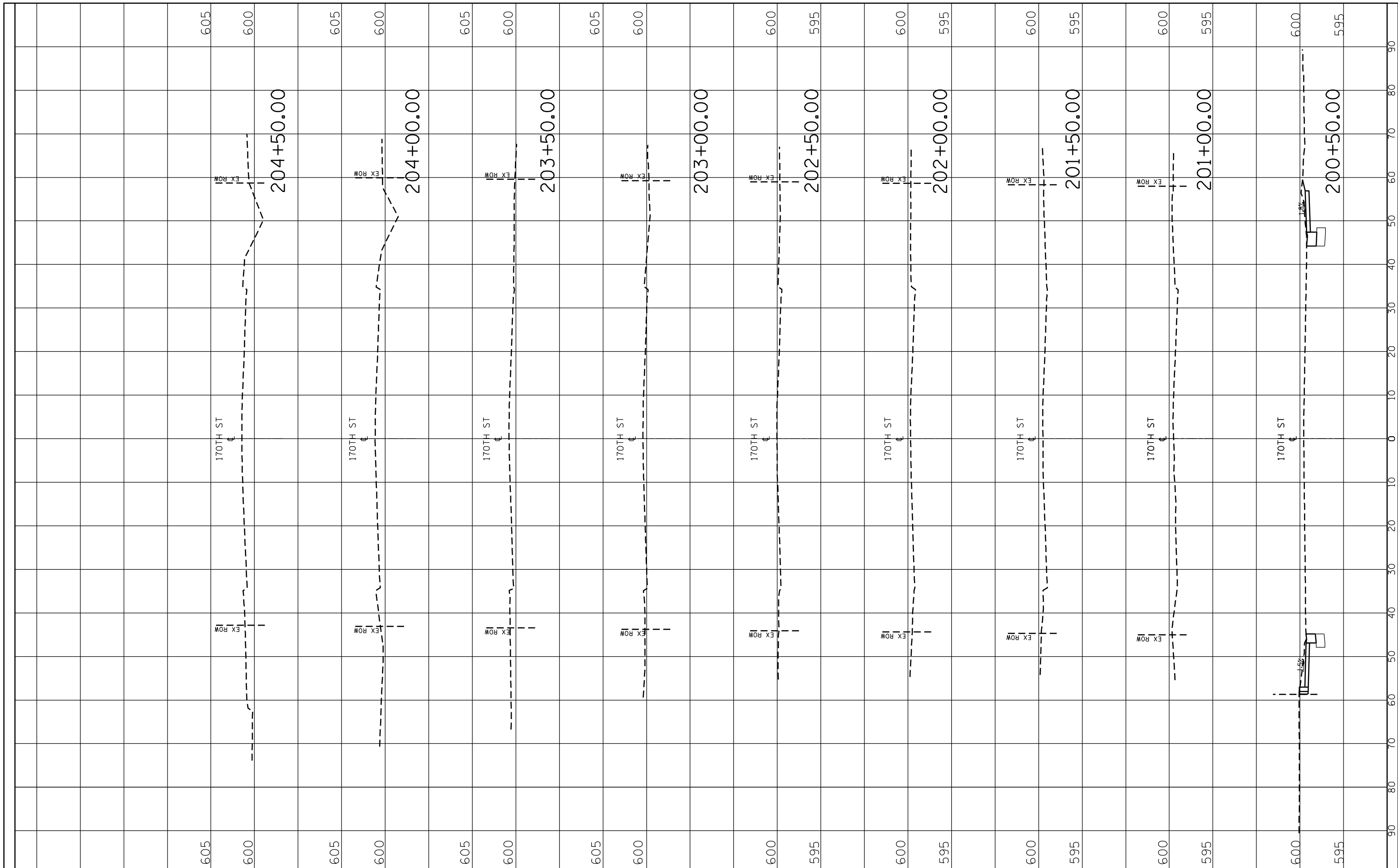
CROSS SECTION - 170TH ST

SCALE: SHEET 1 OF 2 SHEETS STA. 195+50.00 TO STA. 200+00.00

F.A.P. RTE. 358	SECTION 2021-002-TS&SW	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 61
CONTRACT NO. 62N35			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/14/2021

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTION - 170TH ST

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F&P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	2021-002-TS&SW	COOK	62	62
CONTRACT NO. 62N35				
ILLINOIS FED. AID PROJECT				