F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	45	1
	ILLINOIS	CONTRACT NO. 61H81		

09/23/2022 LETTING ITEM 050

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED
HIGHWAY PLANS

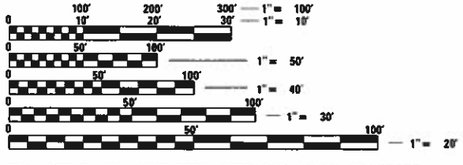
FAP ROUTE 0375 (TOUHY AVENUE)
NEW MULTI-USE PATH
SECTION 19-00135-00-BT
PROJECT 0G34(073)
VILLAGE OF NILES
COOK COUNTY

C-91-124-22

DESIGN DESIGNATION:

TOUHY AVENUE (OTHER PRINCIPAL ARTERIAL)
2018 AADT = 30,400
DESIGN SPEED = 40 MPH
POSTED SPEED = 35 MPH

CALDWELL AVENUE (OTHER PRINCIPAL ARTERIAL)
2018 AADT = 16,700
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH



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

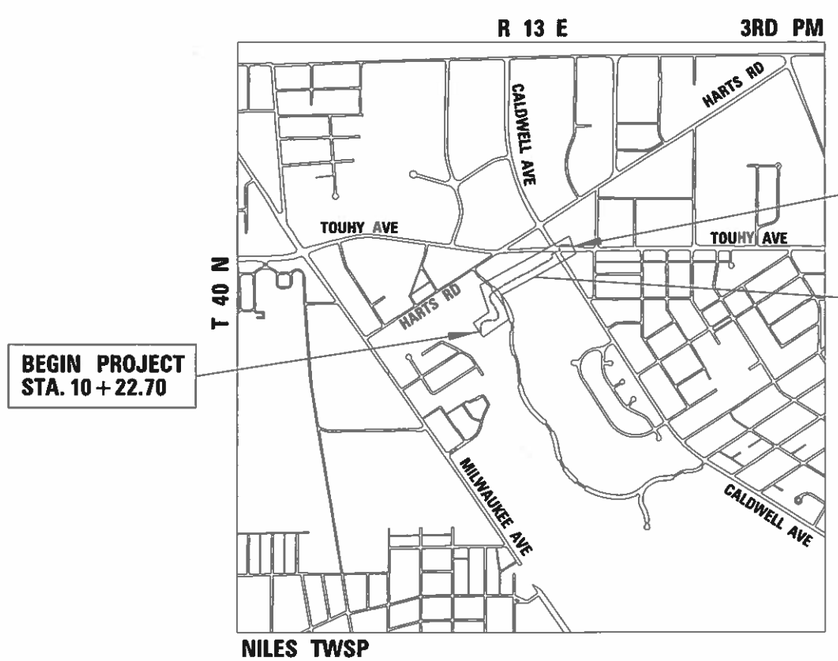
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT MANAGER: LEE M. FELL, PE (847) 823-0500

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CONTRACT NO. 61H81

FEDERAL AID ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 2055.00 FT. = 0.389 MILE
NET LENGTH = 2055.00 FT. = 0.389 MILE

LOCATION OF SECTION INDICATED THUS: -

LEE M. FELL
062-061708
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
EXP 11/30/2023
07/15/2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED Thomas Powers 07/19/2022
VILLAGE ENGINEER, VILLAGE OF NILES

APPROVED Chris Slattery 7/26/2022
DIRECTOR OF PLANNING AND DEVELOPMENT, FOREST PRESERVE DISTRICT OF COOK COUNTY

PASSED July 27 20 22
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW July 27 20 22
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
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424021-06	DEPRESSED CORNER FOR SIDEWALKS
424026-03	ENTRANCE / ALLEY PEDESTRIAN CROSSING
604001-05	FRAME AND LIDS TYPE 1
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
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701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
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701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
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728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
876001-04	PEDESTRIAN PUSH BUTTON POST
878001-11	CONCRETE FOUNDATION DETAILS
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DISTRICT 1 DETAILS

BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS INTERSECTIONS AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "DETAILS" IN THE PLANS, THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS, THE JANUARY 1, 2022 EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE JANUARY 1, 2022 EDITION OF "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE 2009 EDITION WITH REVISIONS 1 AND 2, NOVEMBER 2020 REVISION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD), THE NOVEMEBER 2021 REVISION 3 OF THE "ILLINOIS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE AMERICANS WITH DISABILITIES ACT OF 1990 ACCESSIBILITY GUIDELINES, THE "DRAFT" REHABILITATION ACT OF 1973 (SECTION 504), AND THE LATEST PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNER OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.
3. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER MAIN AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE VILLAGE.
5. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)
6. WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE VILLAGE AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER.
7. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED, AND SHALL BE AS INDICATED ON THE PLANS, ELEVATIONS SHOWN AT POINT OF CURVE, ETC. IS EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, ETC., ARE FROM THE PROPOSED BASE LINE OF CONSTRUCTION.
9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR EXISTING UTILITIES IN CONFORMANCE WITH THE AFFECTED UTILITY COMPANIES REQUIREMENTS AS MAY BE REQUIRED TO PERFORM THE WORK OF THIS CONTRACT.
10. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION.
11. WHENEVER, DURING CONSTRUCTION, OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS.
12. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE STRUCTURE SIZE.
13. THE DISTANCE FROM THE EDGE OF PATH TO SIGN PANELS SHOULD BE 3 FEET AND THE MINIMUM CLEAR AREA FROM THE EDGE OF THE SHARED USE PATH ON BOTH SIDES TO ANY LATERAL OBSTRUCTIONS INCLUDING SIGN PANELS SHALL BE 2 FEET.
14. WHEN EXISTING DRAINAGE OR SEWERAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PUBLIC OR PRIVATE DRAINS, SEWERS, OR CATCH BASINS, HE SHALL PROVIDE FACILITIES TO TAKE ALL STORM WATER WHICH WOULD BE RECEIVED BY THESE FACILITIES AND DISCHARGE SAME.
15. ALL PROPOSED SIGNS SHALL BE ERECTED BEFORE EXISTING SIGNS ARE REMOVED.
16. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
17. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
18. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT FADI SULTAN, THE AREA TRAFFIC FIELD ENGINEER, AT FADI.SULTAN@ILLINOIS.GOV
19. PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL 0).

MOT GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 1 TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
2. ROADWORK REQUIRING A CLOSURE OF A LANE, WHICH HAS BEEN OPENED PREVIOUSLY TO TRAFFIC, WILL BE ALLOWED AT THE DISCRETION OF THE ENGINEER AND UNDER THE FOLLOWING CONDITIONS:
   a. THE LANE CLOSURE SHALL ONLY BE IN EFFECT WHILE WORKERS ARE PRESENT IN OR NEAR THE CLOSED LANE.
   b. THE CLOSED LANE WILL BE REOPENED TO TRAFFIC AT THE END OF THE WORKDAY.
   c. ALL TRAFFIC CONTROL DEVICES PERTAINING TO THE LANE CLOSURE SHALL BE REMOVED FROM THE ROADWAY AT THE END OF THE WORKDAY.
3. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES
4. UTILITY TRENCHES SHALL BE COVERED OR FILLED AT THE END OF EACH DAY.
5. SPACING OF TYPE II BARRICADES, DRUMS OR VERTICAL BARRICADES SHALL BE AS FOLLOWS: 50' C-C ON TANGENTS, 20' C-C ON TAPERS/SHIFTS, 10' C-C AROUND RADII.
6. ALL SIGNAGE TO BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MAINTENANCE OF TRAFFIC SHOWN IS THE MINIMUM REQUIRED; THE CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL MEASURES AS DIRECTED BY THE ENGINEER.

COMMITMENTS

1. THERE WILL BE NO WORK EAST OF THE PARKING LOT IN ORDER TO PROTECT THE CLAYTON F. SMITH WOODS INAI SITE.

MODEL: Default
FILE NAME: K:\MLES\1900272\Civil\NOT_190072.sht

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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USER NAME = doconnell	DESIGNED - DOC	REVISED -	
	DRAWN - DOC	REVISED -	
PLOT SCALE = 1'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	2
		CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY (80% FEDERAL, 20% LOCAL)	CODE 0028	CODE 0042
	*	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	100	100	
	*	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	40	40	
		20101100	TREE TRUNK PROTECTION	EACH	7	7	
	*	20101200	TREE ROOT PRUNING	EACH	8	8	
	*	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	3	3	
	*	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	4	4	
	*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	55	55	
	*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	55	55	
		20200100	EARTH EXCAVATION	CU YD	261	261	
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	500	500	
		20800150	TRENCH BACKFILL	CU YD	75	75	
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	182	182	
		21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	2200	2200	
	*	25000210	SEEDING CLASS 2A	ACRE	0.8	0.8	
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	55	55	
		28000400	PERIMETER EROSION BARRIER	FOOT	2900	2900	
		28000510	INLET FILTERS	EACH	12	12	
Δ		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	300	300	
		31101180	SUBBASE GRANULAR MATERIAL, TYPE B 2"	SQ YD	100	100	
		35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	1900	1900	
		35800100	PREPARATION OF BASE	SQ YD	2050	2050	

* SPECIALTY ITEMS
Δ SPECIAL PROVISION

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FILE NAME: N:\NILES\190072\Civil\SGQ-01_190072.sht

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USER NAME = doconnell	DESIGNED - DOC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH TRAIL CONNECTION SUMMARY OF QUANTITIES
	DRAWN - DOC	REVISED -		
PLOT SCALE = 2'	CHECKED - LMF	REVISED -		
PLOT DATE = 8/18/2022	DATE - 8/18/2022	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	3
		CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY (80% FEDERAL, 20% LOCAL)	CODE 0028	CODE 0042
		35800200	AGGREGATE BASE REPAIR	TON	10	10	
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4250	4250	
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	475	475	
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	275	275	
		40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	160	160	
		42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	750	750	
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	180	180	
		44000100	PAVEMENT REMOVAL	SQ YD	96	96	
		44000600	SIDEWALK REMOVAL	SQ FT	323	323	
		42400800	DETECTABLE WARNINGS	SQ FT	130	130	
		54205047	PIPE CULVERTS, SPECIAL 12"	FOOT	45	45	
		54213447	END SECTIONS 12"	EACH	2	2	
		550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	172	172	
		60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	3	3	
		60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1	
		60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2	
		60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2	
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	275	275	
Δ	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	180	180	
Δ	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3	
Δ	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	

* SPECIALTY ITEMS
Δ SPECIAL PROVISION

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PLOT DATE = 8/18/2022	DATE - 8/18/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	4
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY (80% FEDERAL, 20% LOCAL)	CODE 0028	CODE 0042
Δ	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
Δ	*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	30	30	
		67100100	MOBILIZATION	L SUM	1	1	
		70102631	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1	1	
		70102626	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	EACH	1	1	
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
	*	72000100	SIGN PANEL - TYPE 1	SQ FT	210	210	
	*	72000200	SIGN PANEL - TYPE 2	SQ FT	50	50	
		72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	28	28	
	*	72900100	METAL POST - TYPE A	FOOT	100	100	
	*	72900200	METAL POST - TYPE B	FOOT	80	80	
	*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	35	35	
		73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	2	2	
	*	78000200	THERMOPLASTIC PAVEMENT MARKING LINE 4"	FOOT	1750	1750	
	*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	285	285	
	*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1100	1100	
	*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	220	220	
		78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	200	200	
		81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	94	94	
Δ	*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	

* SPECIALTY ITEMS
Δ SPECIAL PROVISION

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PLOT DATE = 8/18/2022	DATE - 8/18/2022	REVISED -			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	5
		CONTRACT NO. 61H81		
		ILLINOIS FED. AID PROJECT		

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY (80% FEDERAL, 20% LOCAL)	CODE 0028	CODE 0042
	*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1358	1358	
	*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1400	1400	
		87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	162	162	
		87900200	DRILL EXISTING HANDHOLE	EACH	5	5	
		88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	4	
		88600100	DETECTOR LOOP, TYPE I	FOOT	42	42	
	*	K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	0.64	0.64	
Δ	*	X0327880	WAYFINDING SIGN, SPECIAL	L SUM	1	1	
Δ	*	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4	4	
Δ	*	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1	1	
Δ		X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	2300	2300	
Δ	*	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	3000	3000	
Δ	*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	8	
Δ	*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20	20	
Δ	*	X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	1	1	
Δ		Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	115	115	
Δ		Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Δ		Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	195	195	
Δ		Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1	
Δ		Z0076600	TRAINEES	HOUR	500		500
Δ		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500

* SPECIALTY ITEMS
Δ SPECIAL PROVISION

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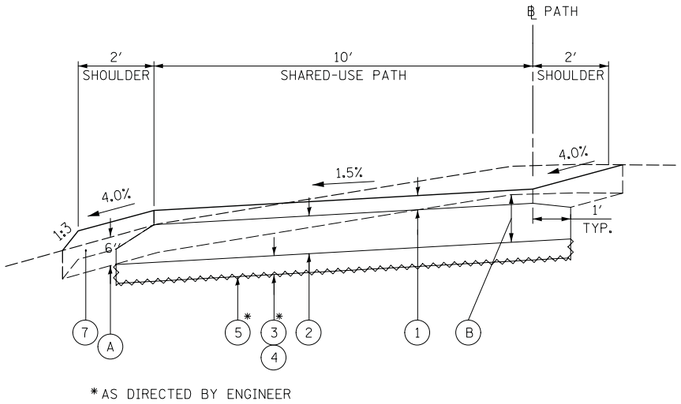
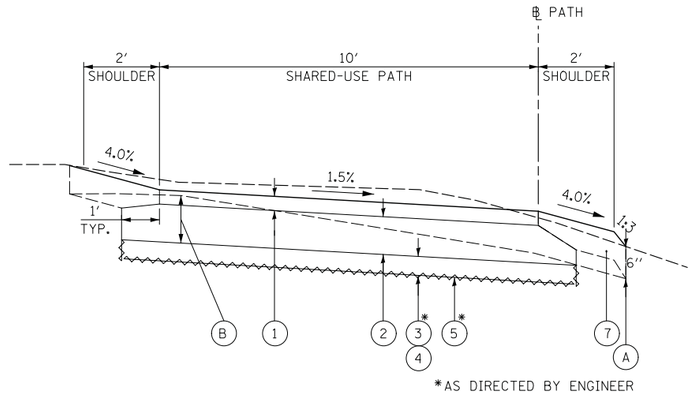
	DRAWN - DOC	REVISED -			
PLOT SCALE = 2'	CHECKED - LMF	REVISED -			
PLOT DATE = 8/18/2022	DATE - 8/18/2022	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	6
		CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			



*AS DIRECTED BY ENGINEER

PROPOSED TYPICAL SECTION
STA. 10+20.00 TO 14+70.00



*AS DIRECTED BY ENGINEER

PROPOSED TYPICAL SECTION
STA. 14+70.00 TO 17+70.00

LEGEND

(1) HMA SURFACE COURSE IL-9.5, MIX "D", N50, 1-1/2"
HMA BINDER COURSE, IL-19.0, N50, 2-1/2"

(2) AGGREGATE BASE COURSE, TYPE B, 8"

(3) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (UNDERCUTS)

(4) AGGREGATE SUBGRADE IMPROVEMENT

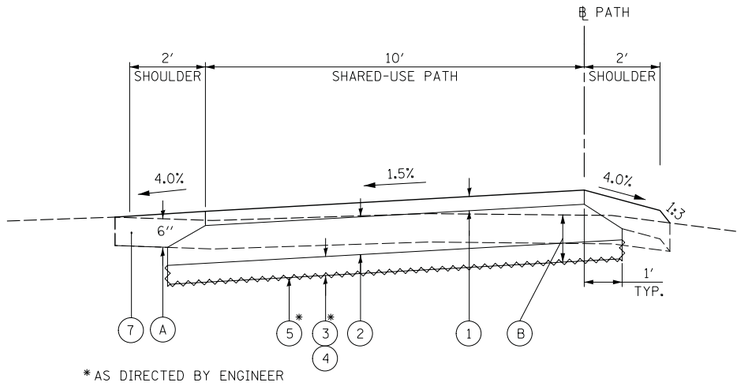
(5) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

(6) NOT USED

(7) TOPSOIL FURNISH AND PLACE, 6"

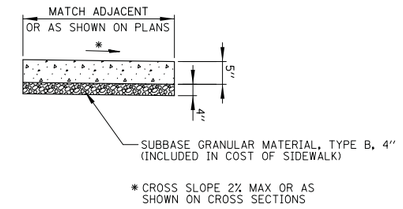
(A) TOPSOIL EXCAVATION AND PLACEMENT

(B) EARTH EXCAVATION



*AS DIRECTED BY ENGINEER

PROPOSED TYPICAL SECTION
STA. 17+70.00 TO 27+10.00



*CROSS SLOPE 2% MAX OR AS SHOWN ON CROSS SECTIONS

P.C.C. SIDEWALK 5 INCH, SPECIAL
NOT TO SCALE

NOTE:
ALL REQUIRED EARTH EXCAVATION TO CONSTRUCT P.C.C. SIDEWALK SHALL BE INCLUDED IN THE COST OF P.C.C. SIDEWALK 5 INCH, SPECIAL.

NOTES:

1. TO PREVENT CHANGES IN SOIL PH, THE USE OF LIMESTONE BASED AGGREGATES WILL NOT BE ALLOWED IN THESE PAY ITEMS. SEE "COARSE AGGREGATES" SPECIAL PROVISION FOR MORE INFORMATION.

2. CONTRACTOR SHALL REMOVE AND REPLACE ANY UNSUITABLE MATERIAL UNDER SIDEWALK, CURB AND GUTTER REPLACEMENT AND PATCHING LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF PCC SIDEWALK 5", SPECIAL OR CURB AND GUTTER (SPECIAL)

3. AGGREGATE BASE REPAIR (SUBBASE GRANULAR MATERIAL, TYPE B) UNDER SIDEWALKS, CURB AND GUTTER, AND PAVEMENT PATCHES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. COST SHALL BE INCLUDED IN AGGREGATE BASE REPAIR

4. ADDITIONAL STONE BACK FILLING SHALL BE INCLUDED IN THE COST FOR CURB AND GUTTER (SPECIAL).

HOT - MIX ASHPHLAT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VIODS (%) @ Ndes	QMP
SHARED-USE PATH:		
HMA SURFACE COURSE IL-9.5, MIX "D", N50, 1-1/2"	4% @ 50 GYR	LR 1030-2
HMA BINDER COURSE, IL-19.0, N50, 2-1/2"	4% @ 50 GYR	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2		

NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE QUANTITIES IS 112 LB/SQ TD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATION.

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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(847) 823-0500

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	DRAWN - DOC	REVISED -
PLOT SCALE = 2'	CHECKED - LMF	REVISED -
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	7
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\TYP_190072.SHT

EARTHWORK SCHEDULE

STATION			20200100 EARTH EXCAVATION (CU YD)	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)
10+33	TO	10+50	4.4	3.7	0.2
10+50	TO	11+00	13.2	11.2	0.5
11+00	TO	11+50	8.9	7.6	0.3
11+50	TO	12+00	7.8	6.6	0.4
12+00	TO	12+50	15.6	13.3	1.6
12+50	TO	13+00	5.9	5.0	6.3
13+00	TO	13+50	5.2	4.4	14.5
13+50	TO	14+00	7.2	6.1	18.8
14+00	TO	14+50	8.3	7.1	9.9
14+50	TO	15+00	7.9	6.7	9.3
15+00	TO	15+50	14.2	12.1	3.4
15+50	TO	16+00	13.4	11.4	2.9
16+00	TO	16+50	8.9	7.6	4.2
16+50	TO	17+00	8.3	7.1	3.7
17+00	TO	17+25	4.7	4.0	1.8
17+75	TO	18+00	2.1	1.8	12.6
18+00	TO	18+50	6.4	5.4	3.2
18+50	TO	19+00	7.2	6.1	2.8
19+00	TO	19+50	6.8	5.9	3.3
19+50	TO	20+00	7.6	6.5	3.5
20+00	TO	20+50	7.3	6.2	3.4
20+50	TO	21+00	9.2	7.8	2.2
21+00	TO	21+50	9.7	8.2	2.5
21+50	TO	22+00	5.4	4.6	5.6
22+00	TO	22+50	5.2	4.4	4.8
22+50	TO	23+00	6.1	5.2	4.5
23+00	TO	23+50	7.2	6.1	5.1
23+50	TO	24+00	5.3	4.5	3.4
24+00	TO	24+50	5.9	5.0	7.5
24+50	TO	25+00	7.2	6.1	6.7
25+00	TO	25+50	3.3	2.8	15.1
25+50	TO	26+00	4.9	4.2	13.7
26+00	TO	26+50	5.1	4.3	10.1
26+50	TO	27+00	7.2	6.1	5.9
27+00	TO	27+22	8.0	6.8	6.2
TOTALS			**261.0**	**222.0**	**199.9**

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PLOT SCALE = 2'	CHECKED - LMF	REVISED -	
PLOT DATE = 8/18/2022	DATE - 8/18/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
EARTHWORK SCHEDULE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	8
		CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			

HORIZONTAL CONTROL POINTS				
CP NO.	NORTHING (Y)	EASTING (X)	DESCRIPTION	ELEV.
101	N 1 909 897.97	E 1 103 265.52	CP-XCUT	640.74
277	N 1 909 743.52	E 1 103 272.76	CP-XCUT	642.57
278	N 1 909 450.65	E 1 103 329.06	CP-XCUT	639.94
4950	N 1 909 799.64	E 1 102 648.06	CP-XCUT	642.04
6544	N 1 909 878.26	E 1 102 994.38	CP-XCUT	641.39

ELEVATION BENCHMARKS DATUM: VILLAGE OF NILES (NAVD'88)		
NO.	DESCRIPTION	ELEV.
NILES	BERNSTEIN GPS 3D MONUMENT LOCATED ON	623.65
BM 3	THE NORTHEAST CORNER OF TOUHY AVENUE &	
	CALDWELL AVENUE	
BM 10	X-CUT ON THE SOUTH CURB OF PARKING LOT	621.52
	AT CALDWELL WOODS 10 SPACES FROM THE	
	WEST END	

MODEL: Default
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	DRAWN - DOC	REVISED -	
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PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
ALIGNMENT, TIES, AND BENCHMARKS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	9
		CONTRACT NO. 61H81		
		ILLINOIS	FED. AID PROJECT	

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	DRAWN - DOC	REVISED -	
PLOT SCALE = 20'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

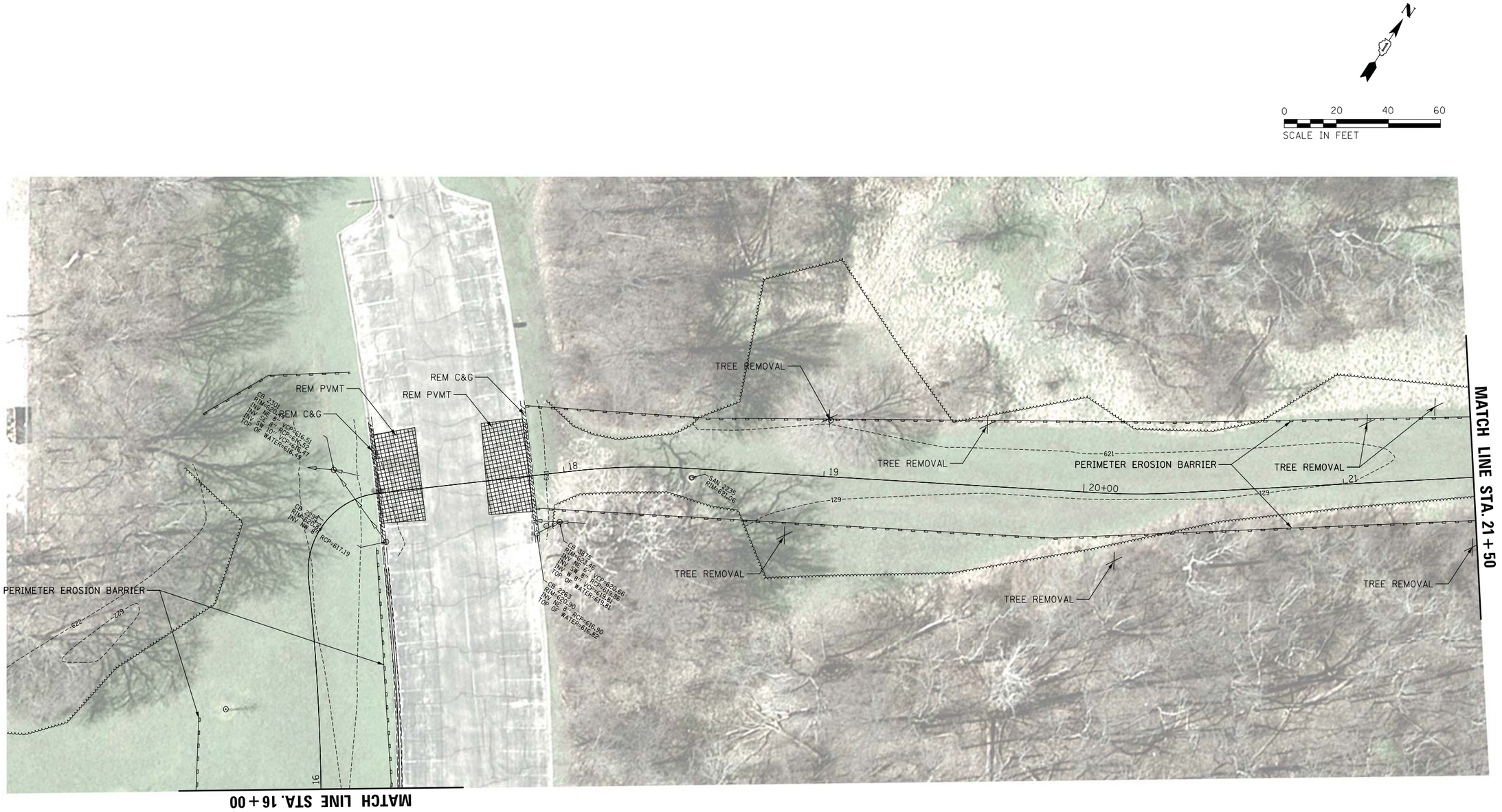
NORTH BRANCH TRAIL CONNECTION
EXISTING CONDITIONS AND REMOVAL PLANS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	10

CONTRACT NO. 61H81

ILLINOIS | FED. AID PROJECT



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CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	USER NAME = doconnell	DESIGNED - DOC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH TRAIL CONNECTION EXISTING CONDITIONS AND REMOVAL PLANS
		DRAWN - DOC	REVISED -		
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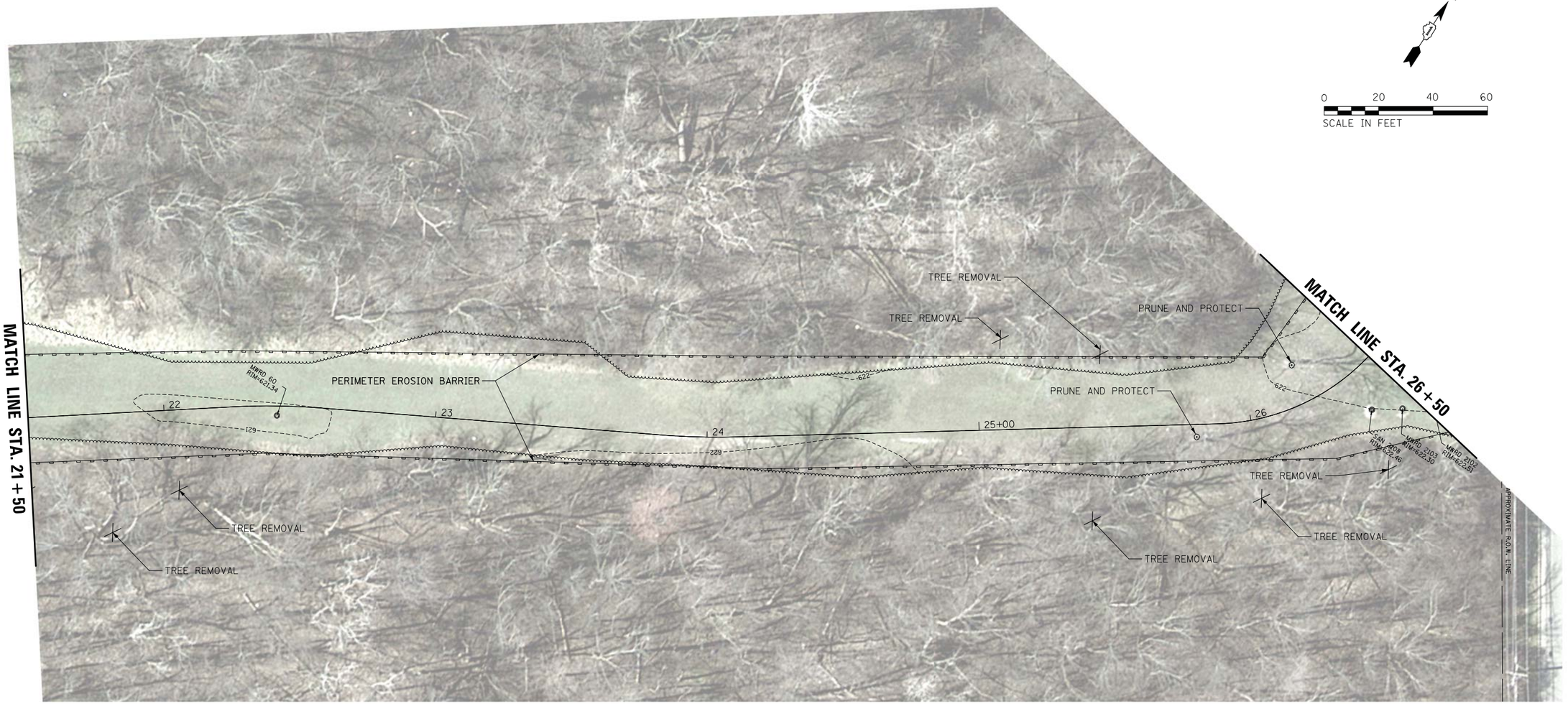
	PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	11
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- PERIMETER EROSION BARRIER
- INLET FILTER
- TEMPORARY EROSION CONTROL SEEDING
  TEMPORARY EROSION CONTROL BLANKET
  TOPSOIL & SODDING
- STABILIZED CONSTRUCTION ENTRANCE

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PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
EXISTING CONDITIONS AND REMOVAL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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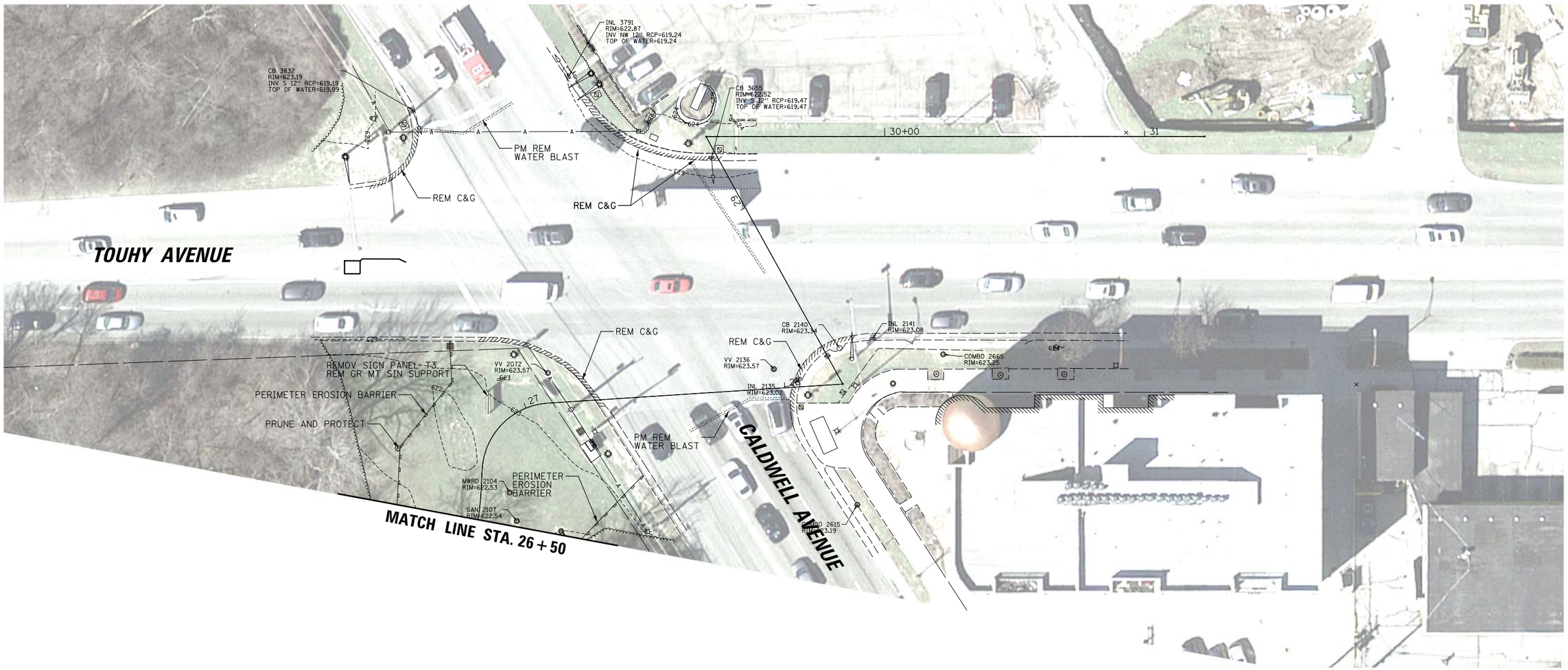
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		



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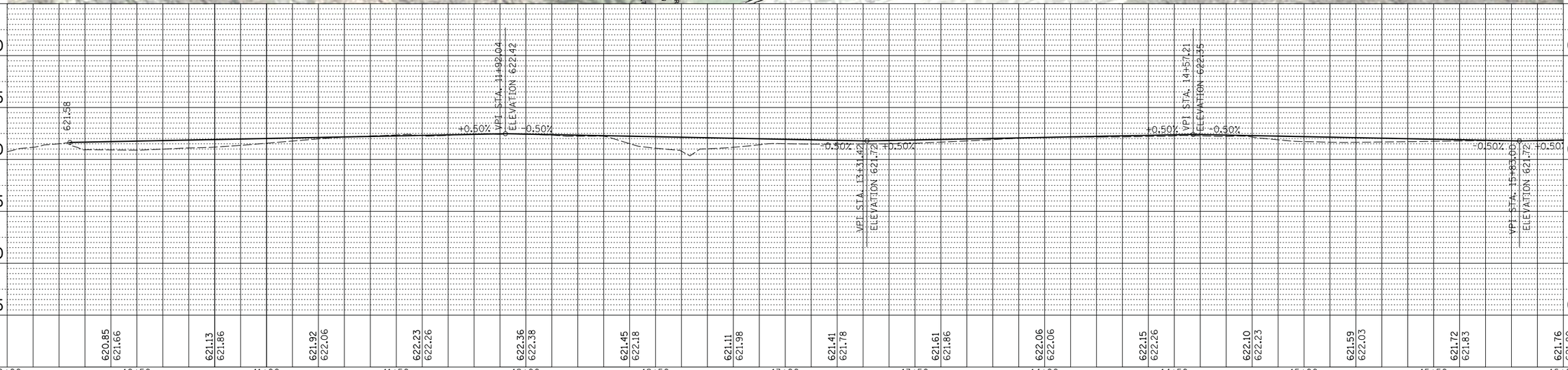
PLOT SCALE = 20'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
EXISTING CONDITIONS AND REMOVAL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	13
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		



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

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

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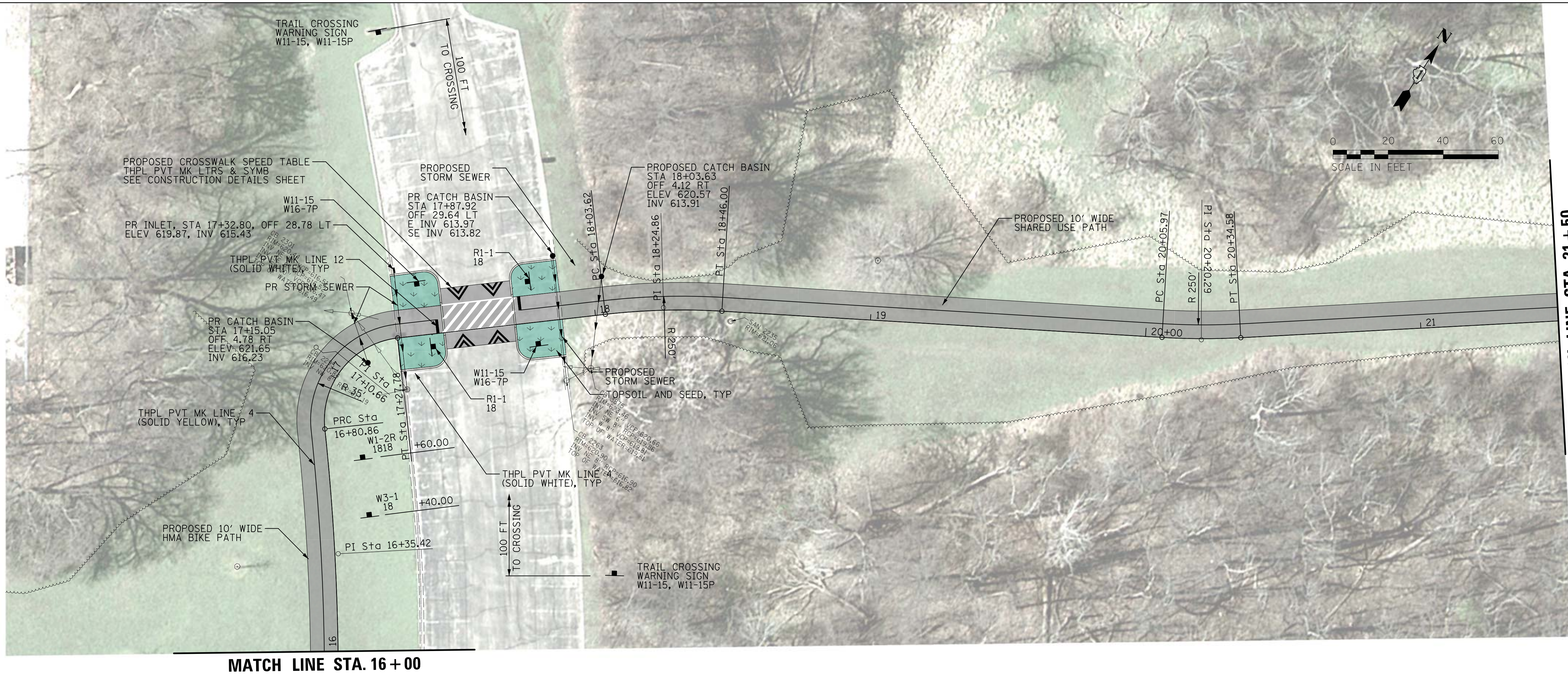
PLOT SCALE = 20'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

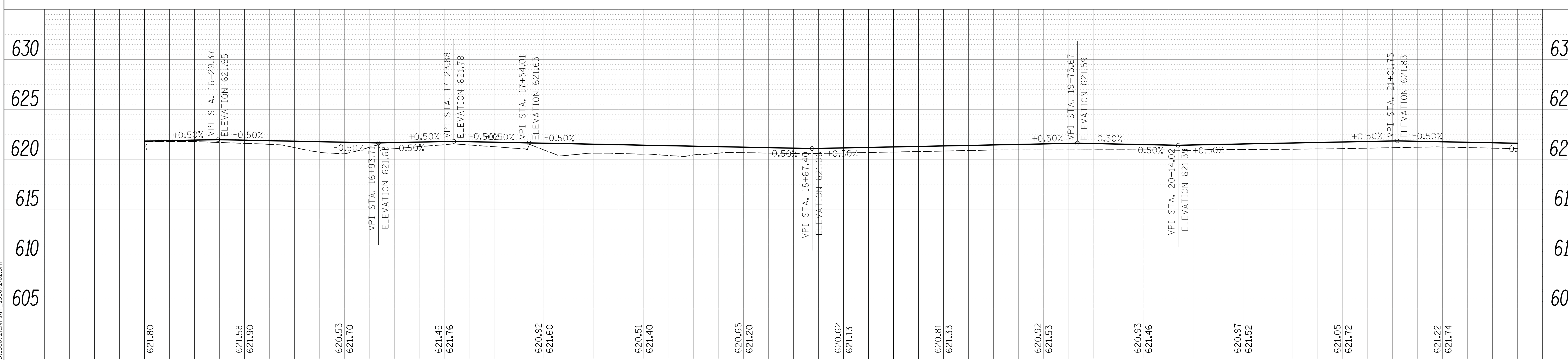
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
PROPOSED PLAN AND PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	14
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		





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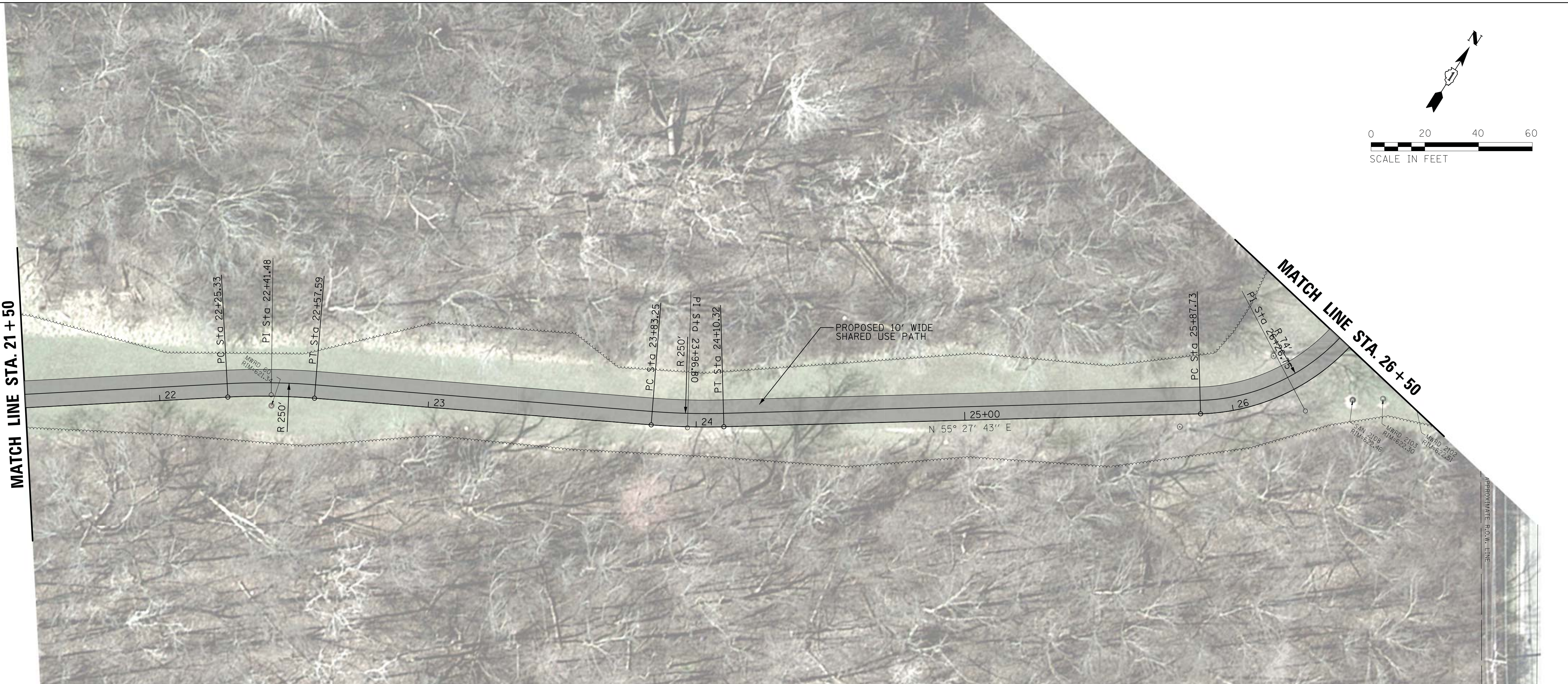
CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	USER NAME = doconnell	DESIGNED - DOC	REVISED -
		DRAWN - DOC	REVISED -
	PLOT SCALE = 20'	CHECKED - LMF	REVISED -
	PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -

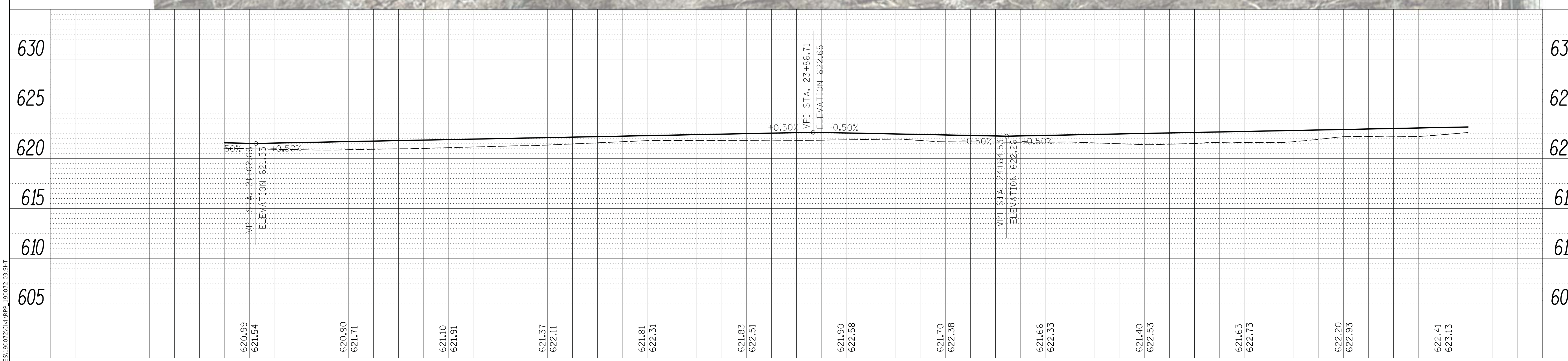
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
PROPOSED PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	15
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		





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

PROFILE	
NOTE BOOK	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHK'D
NO.	BY / DATE

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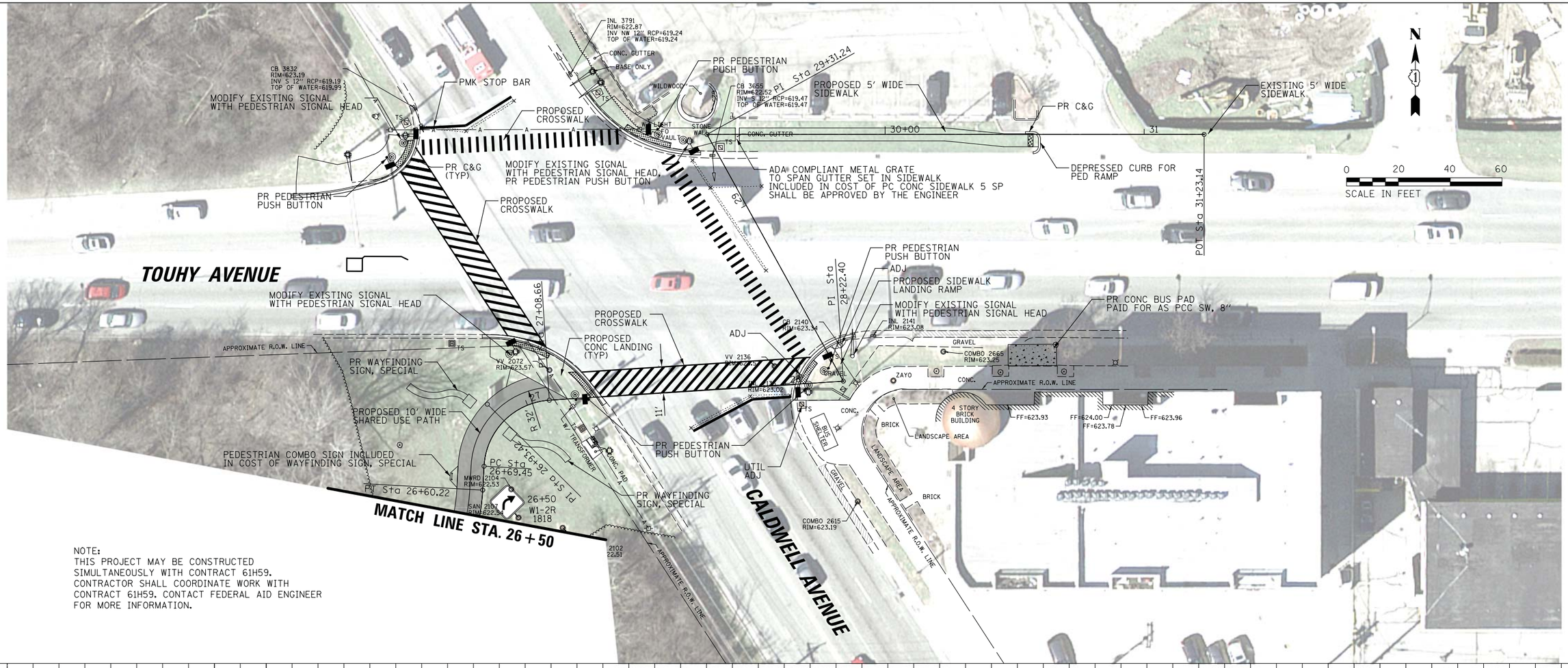
	DRAWN - DOC	REVISED -	
PLOT SCALE = 20'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

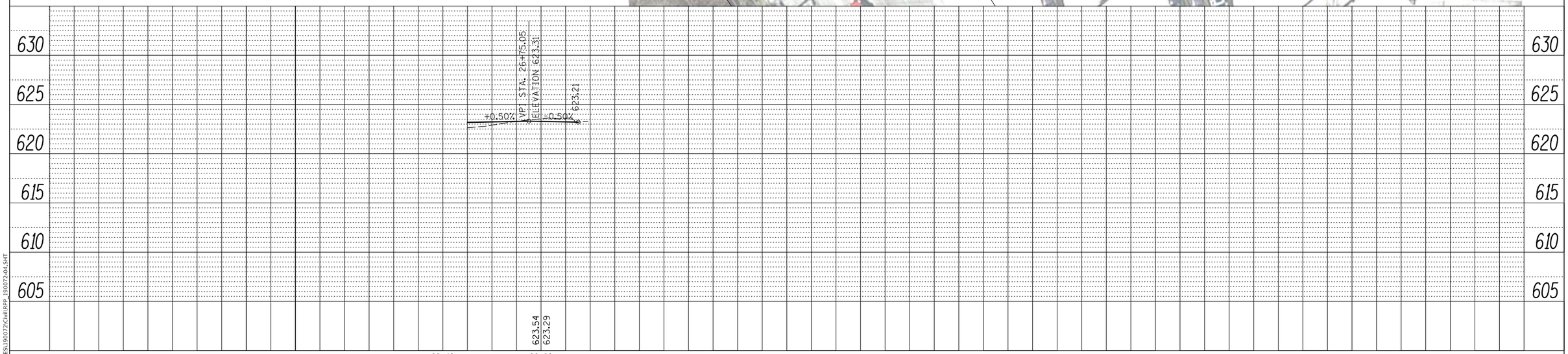
NORTH BRANCH TRAIL CONNECTION
PROPOSED PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	16
		CONTRACT NO. 61H81		
		ILLINOIS FED. AID PROJECT		



NOTE:
THIS PROJECT MAY BE CONSTRUCTED SIMULTANEOUSLY WITH CONTRACT 61H59. CONTRACTOR SHALL COORDINATE WORK WITH CONTRACT 61H59. CONTACT FEDERAL AID ENGINEER FOR MORE INFORMATION.



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

PROFILE: SURVEYED, PLOTTED, CROSS SECTIONS CHECKED, B.M. NOTED, STRUCTURE NO/ATNS CHKD, NOTE BOOK, NO., BY, DATE

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	DRAWN - DOC	REVISED -	
PLOT SCALE = 20'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
PROPOSED PLAN AND PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	17
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\ERO-01_190072.sht

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		DRAWN - DOC	REVISED -
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	PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
EXISTING CONDITIONS AND REMOVAL PLANS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	18
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		

LEGEND

PERIMETER EROSION BARRIER

INLET FILTER

TEMPORARY EROSION CONTROL SEEDING
TEMPORARY EROSION CONTROL BLANKET
TOPSOIL 6" & SEEDING CL 2A

STABILIZED CONSTRUCTION ENTRANCE

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\ERO-02_190072.sht

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	DRAWN - DOC	REVISED -	
PLOT SCALE = 20'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

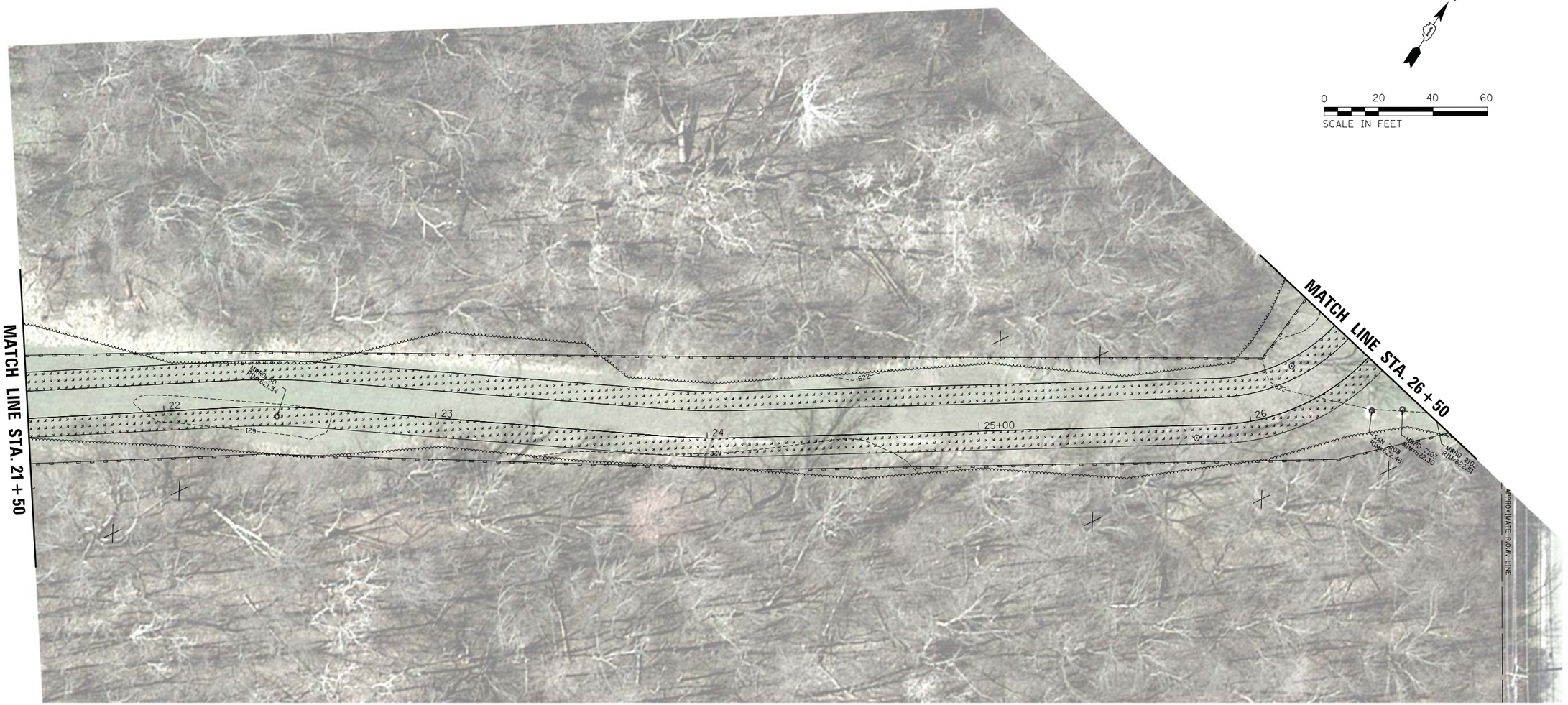
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
EROSION CONTROL AND PROTECTION PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	19
		CONTRACT NO. 61H81		

ILLINOIS | FED. AID PROJECT



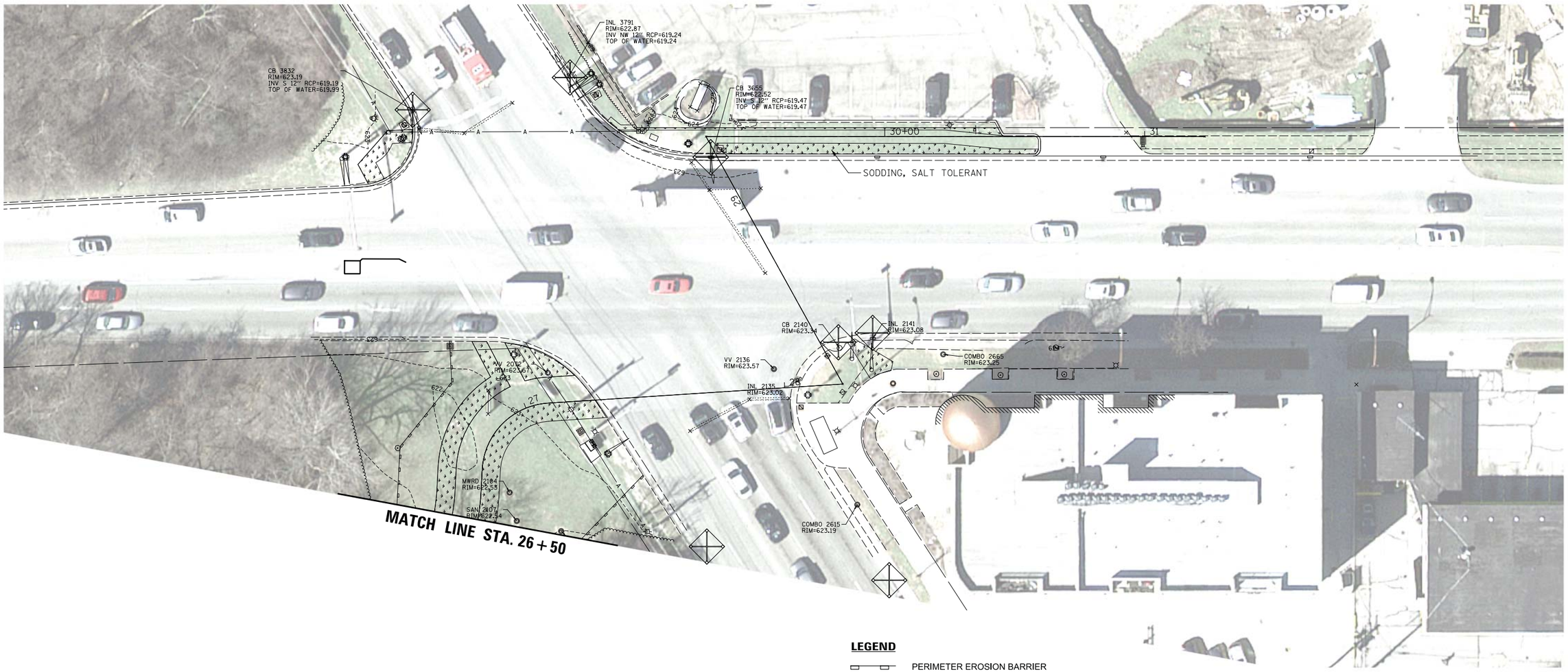
LEGEND

- PERIMETER EROSION BARRIER
- INLET FILTER
- TEMPORARY EROSION CONTROL SEEDING
  TEMPORARY EROSION CONTROL BLANKET
  TOPSOIL 6" & SEEDING CL 2A
- STABILIZED CONSTRUCTION ENTRANCE

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\ERO-03_190072.dht

CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	USER NAME = doconnell	DESIGNED - DOC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH TRAIL CONNECTION EROSION CONTROL AND PROTECTION PLAN
		DRAWN - DOC	REVISED -		
	PLOT SCALE = 20'	CHECKED - LMF	REVISED -		
	PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	20
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- PERIMETER EROSION BARRIER
- INLET FILTER
- TEMPORARY EROSION CONTROL SEEDING
  TEMPORARY EROSION CONTROL BLANKET
  TOPSOIL 6" & SEEDING CL 2A
- STABILIZED CONSTRUCTION ENTRANCE

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\ERO-04_190072.sht

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

USER NAME = doconnell	DESIGNED - DOC	REVISED -	
	DRAWN - DOC	REVISED -	
PLOT SCALE = 20'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
EROSION CONTROL AND PROTECTION PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	21
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		

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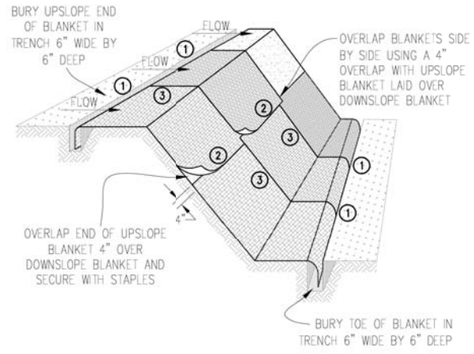
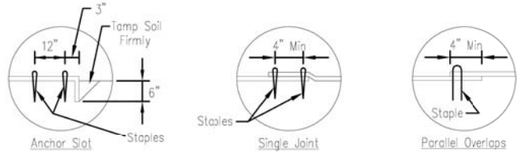
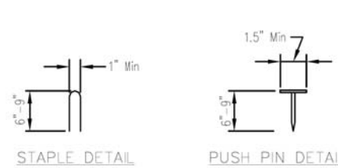




DETAIL 1 DETAIL 2 DETAIL 3



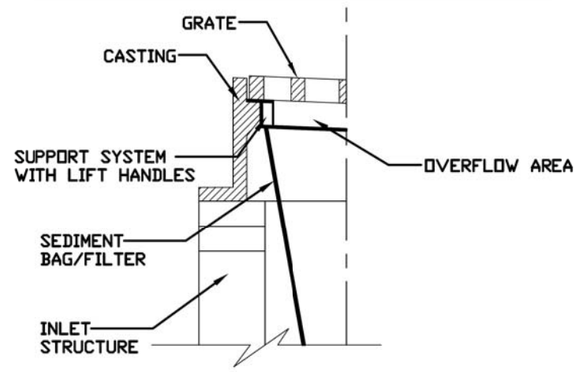
STAPLE DETAIL PUSH PIN DETAIL

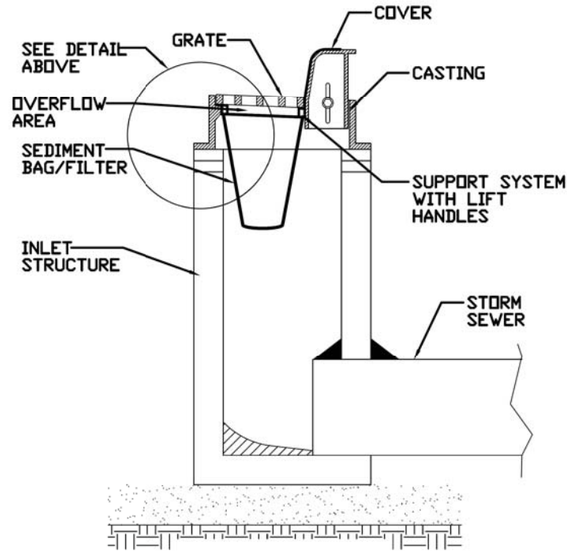
NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

Sheet 1 of 1	Standard No. IUM-560	EROSION CONTROL BLANKET INSTALLATION DETAILS	Designed — Date — Drawn R. JOHNSON 11/08 — Checked — Approved —

INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION





REFERENCE		STANDARD DWG. NO.
Project		IUM-561D
Designed	Date	SHEET 1 OF 1
Checked	Date	DATE 01-11-11
Approved	Date	

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\ERO-05_190072.sht

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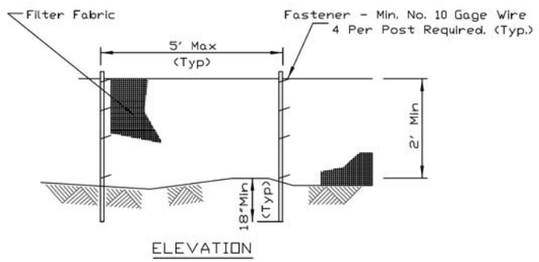
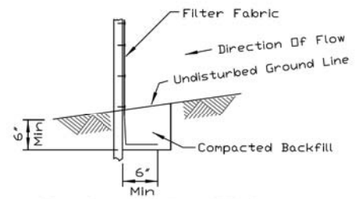
		DRAWN - DOC	REVISED -			0375	19-00135-00-BT	COOK	47	22
	PLOT SCALE = 1'	CHECKED - LMF	REVISED -					CONTRACT NO. 61H81		
	PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

SILT FENCE PLAN



ELEVATION

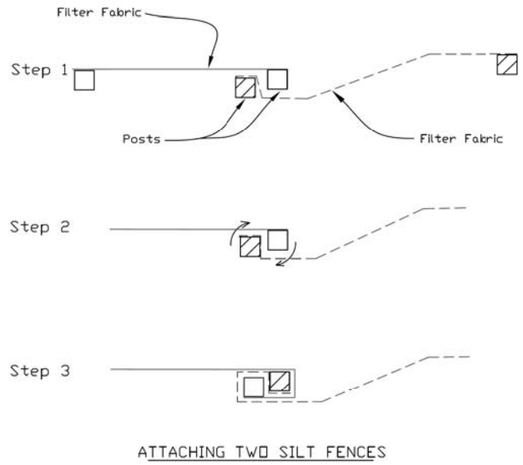


FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE		STANDARD DWG. NO.
Project		IUM-620A
Designed ____ Date ____		SHEET 1 OF 2
Checked ____ Date ____		DATE 3-16-12
Approved ____ Date ____		

SILT FENCE - SPLICING TWO FENCES



ATTACHING TWO SILT FENCES

1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE		STANDARD DWG. NO.
Project		IUM-620B(W)
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 3-16-2012
Approved ____ Date ____		

MODEL: Default
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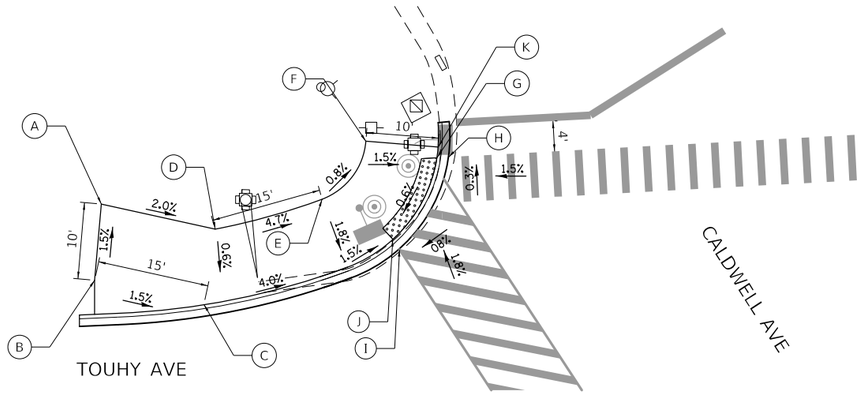
PLOT SCALE = 1'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
EROSION CONTROL DETAILS

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

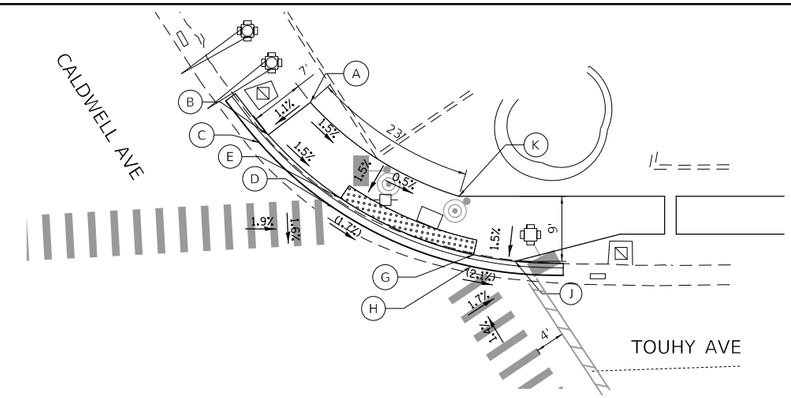
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	23
		CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			



POINT	STATION	OFFSET	ELEVATION
A	134+78.41	43.50' LT	624.38
B	134+77.11	33.50' LT	624.23
C	134+91.39	29.74' LT	(624.00)
D	134+93.29	39.58' LT	624.08
E	135+07.55	42.97' LT	623.37
F	135+13.88	47.99 LT	623.31
G	135+22.65	47.18' LT	623.09
H	135+24.39	47.48' LT	(623.16)
I	134+89.65	36.92 LT	(623.02)
J	135+16.59	37.31' LT	623.09
K	135+23.21	35.55 LT	623.24

N

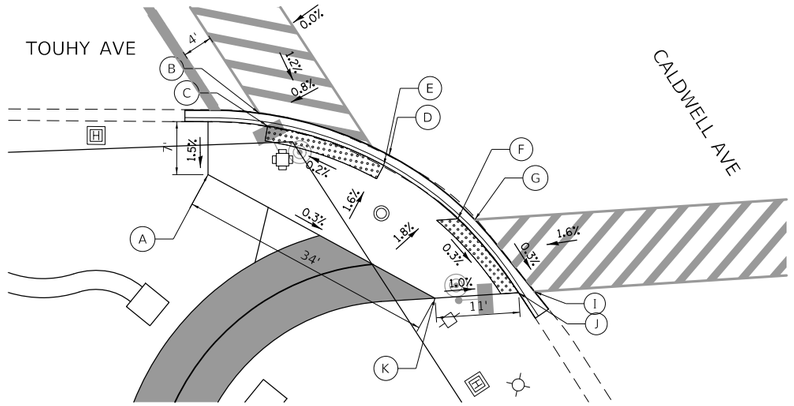
10 0 10 20
SCALE IN FEET



POINT	STATION	OFFSET	ELEVATION
A	135+98.60	63.33' LT	622.05
B	135+93.04	59.04' LT	622.97
C	135+91.79	58.07' LT	(622.85)
D	135+97.23	50.86' LT	(622.77)
E	135+96.13	51.02' LT	622.84
G	136+16.98	42.94' LT	(623.08)
H	136+16.85	42.16' LT	(622.78)
J	136+25.62	42.34' LT	622.70
K	136+16.68	49.30' LT	622.63

N

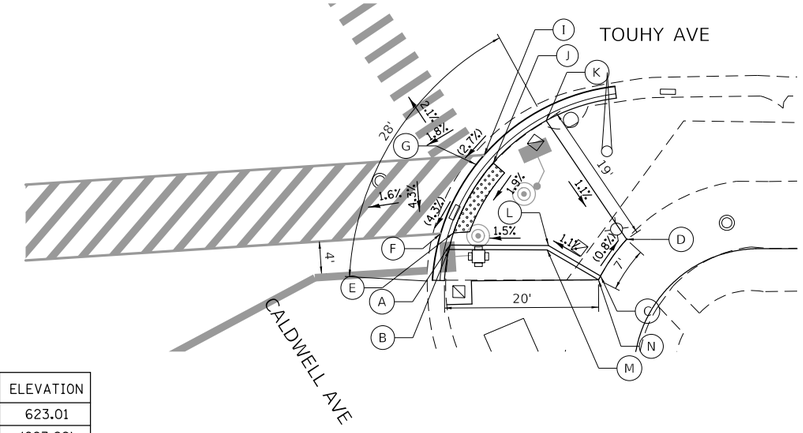
10 0 10 20
SCALE IN FEET



POINT	STATION	OFFSET	ELEVATION
A	135+49.20	36.96' RT	623.40
B	135+56.38	29.15' RT	623.17
C	135+56.03	30.63' RT	623.21
D	135+77.44	33.32' RT	(623.19)
E	135+77.44	33.32' RT	623.23
F	135+78.64	41.66' RT	623.14
G	135+79.89	41.65' RT	(623.08)
I	135+86.98	52.64' RT	(623.17)
J	135+86.85	52.65' RT	(623.30)
K	135+78.74	52.67' RT	(623.44)

N

10 0 10 20
SCALE IN FEET



POINT	STATION	OFFSET	ELEVATION
A	136+69.89	47.57' RT	623.01
B	136+70.31	47.98' RT	(623.29)
C	136+89.45	54.15' RT	(623.26)
D	136+93.16	48.80' RT	(623.21)
E	136+71.48	44.90' RT	623.05
F	136+69.75	44.89' RT	(623.05)
G	136+73.27	38.91' RT	(623.48)
I	136+77.89	33.29' RT	(623.31)
J	136+80.57	34.14' RT	623.33
K	136+82.55	33.12' RT	623.42
L	136+78.54	47.10' RT	623.20
M	136+78.38	47.69' RT	623.33
N	136+89.45	54.15' RT	623.26

LEGEND

(A)	POINT	(XXX.XX')	EXISTING ELEVATION
	DETECTABLE WARNINGS	(%)	EXISTING SLOPE
	PROPOSED SIDEWALK		

N

10 0 10 20
SCALE IN FEET

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\ADA-01_190072.SHT

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USER NAME = doconnell		DESIGNED - DOC		REVISED -	
		DRAWN - DOC		REVISED -	
PLOT SCALE = 20'		CHECKED - LMF		REVISED -	
PLOT DATE = 8/18/2022		DATE - 8/18/2022		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
TOUHY AVENUE & CALDWELL AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	24
		CONTRACT NO. 61H81		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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

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

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

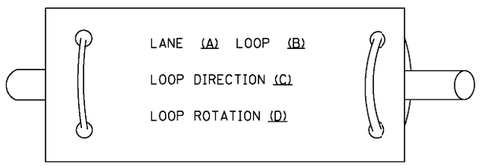
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

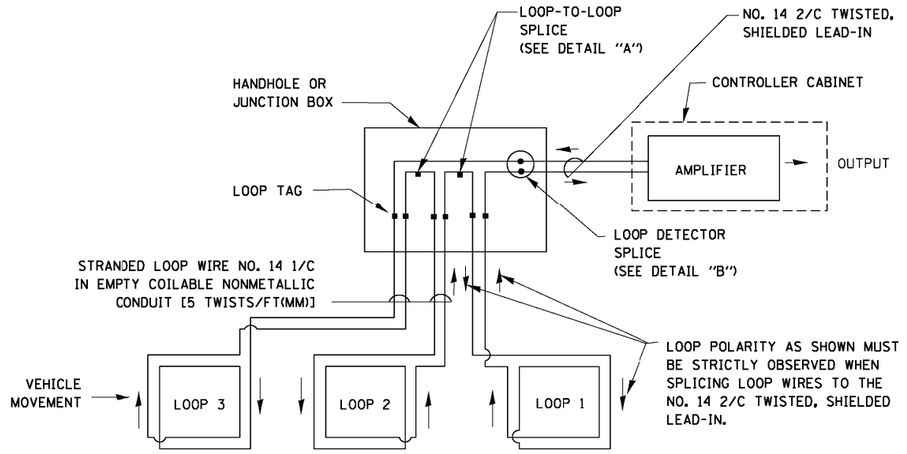


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

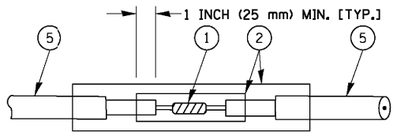
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

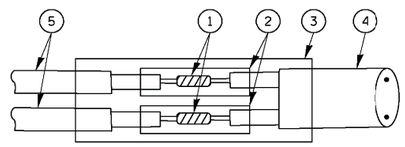


DETECTOR LOOP WIRING SCHEMATIC

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

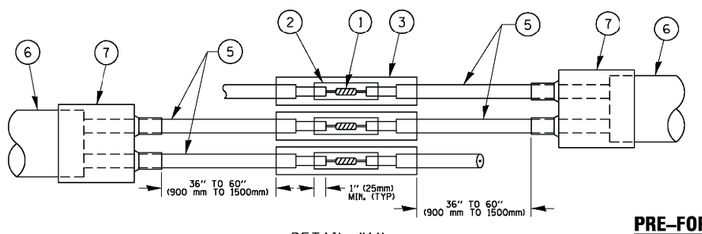


DETAIL "A"
LOOP-TO-LOOP SPLICE



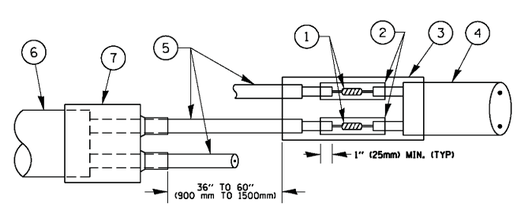
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

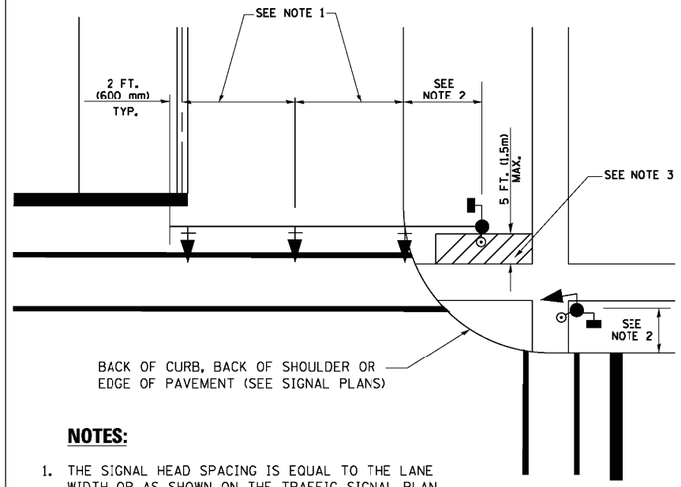
1. WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
2. WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
3. WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER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

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000 ' / in.	DRAWN - BCK	REVISED -					0375	19-00135-00-BT	COOK	47	26
	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -						TS-05	CONTRACT NO. 61H81		
		DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

dconnell
7/27/2022

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

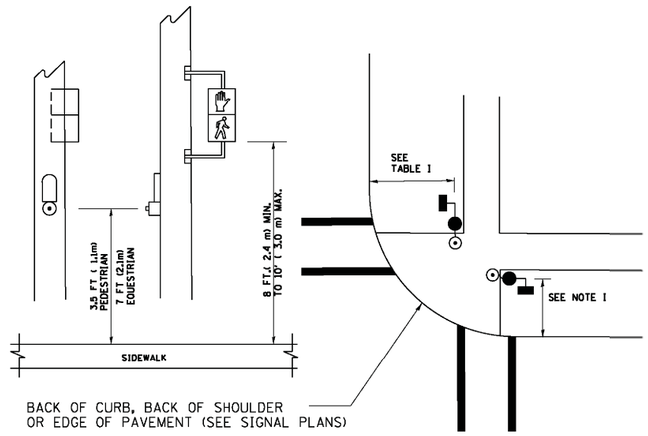
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

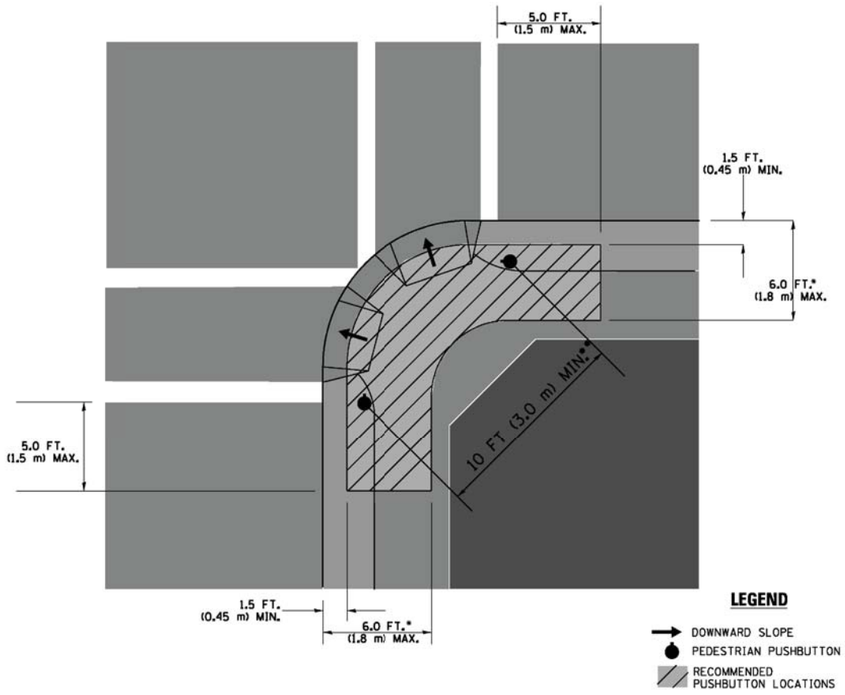
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	27
	TS-05	CONTRACT NO. 61H81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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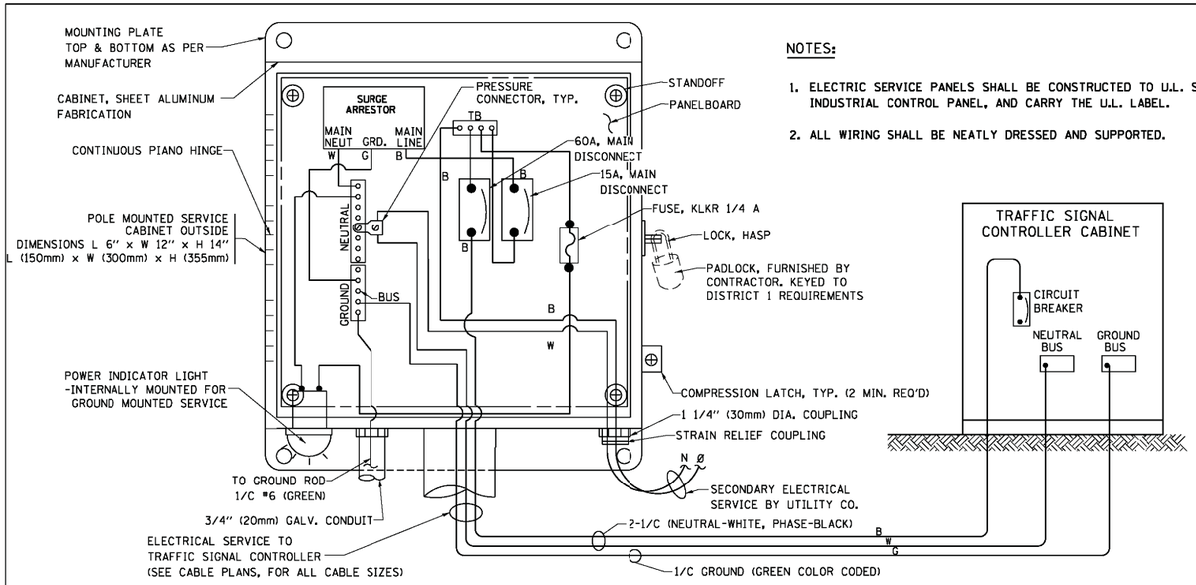
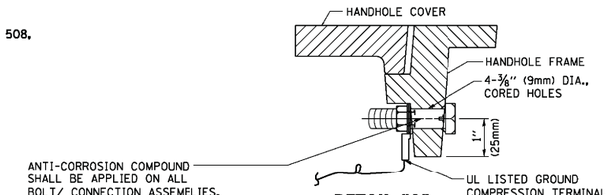


NOTES:

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.

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



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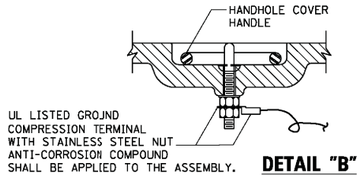
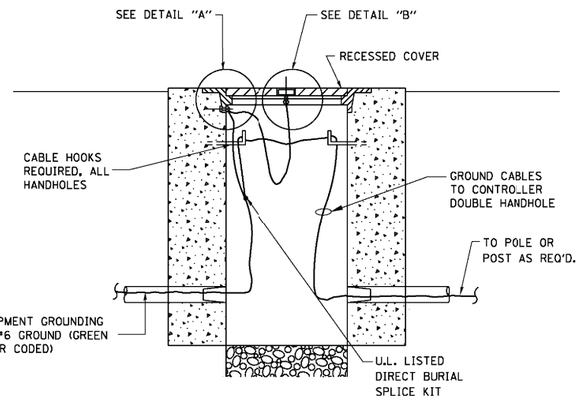


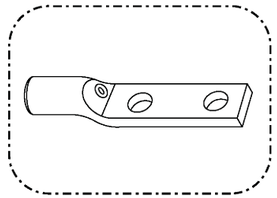
DETAIL "B"

NOTES:
GROUNDING SYSTEM

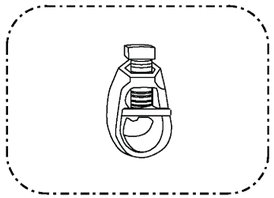
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS, THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, 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.



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



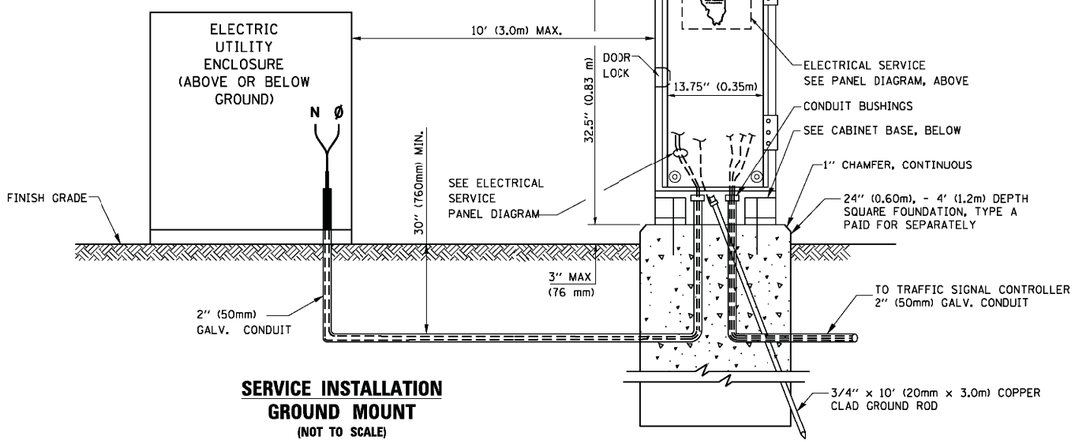
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



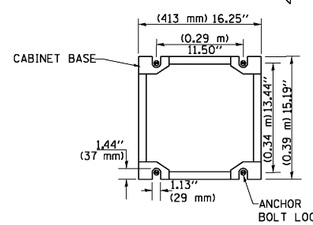
¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

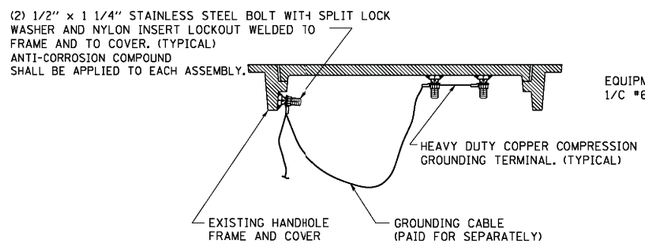
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



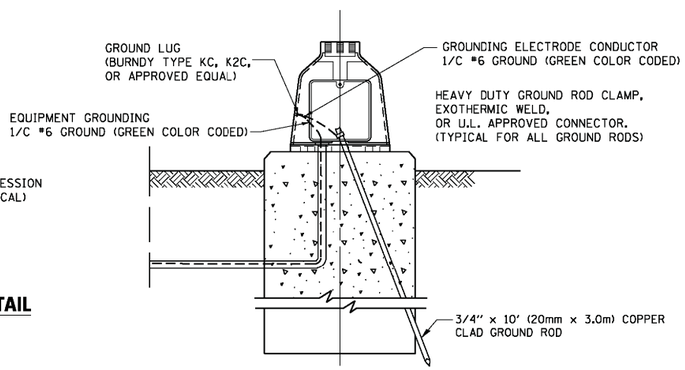
SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)



CABINET – BASE BOLT PATTERN
(NOT TO SCALE)



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



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

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		DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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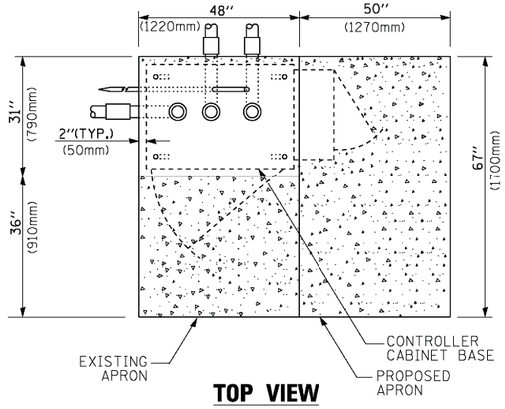
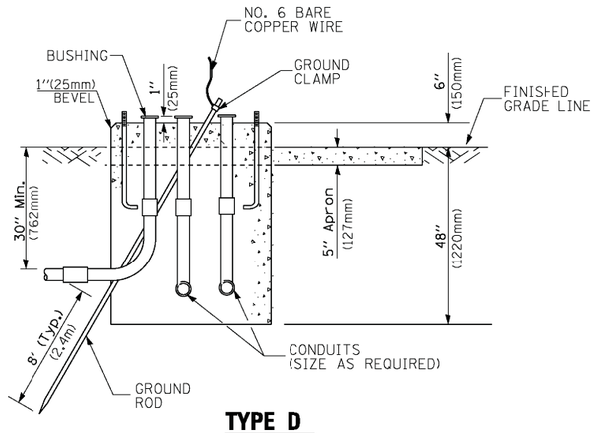
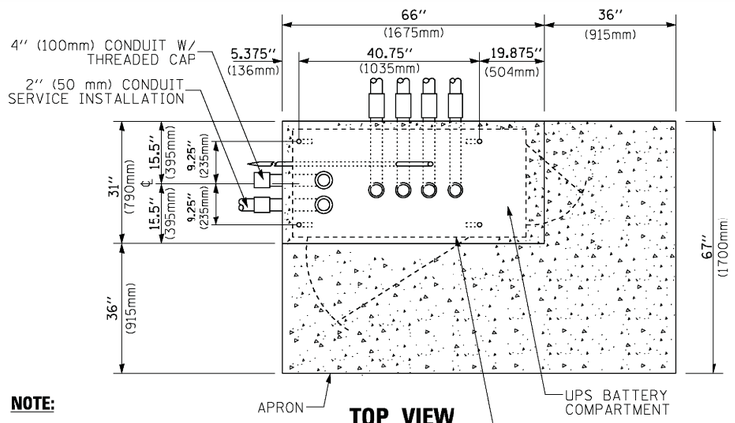


TOP VIEW



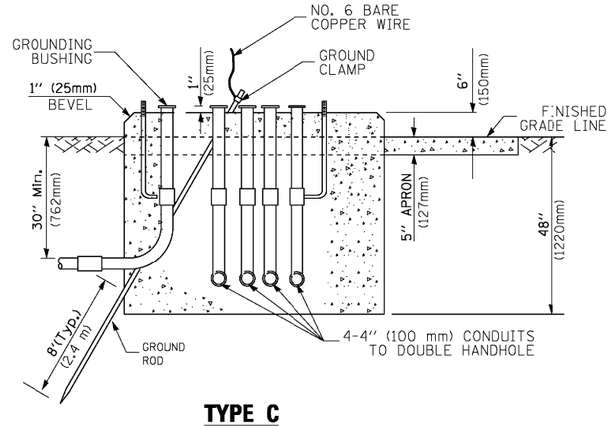
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



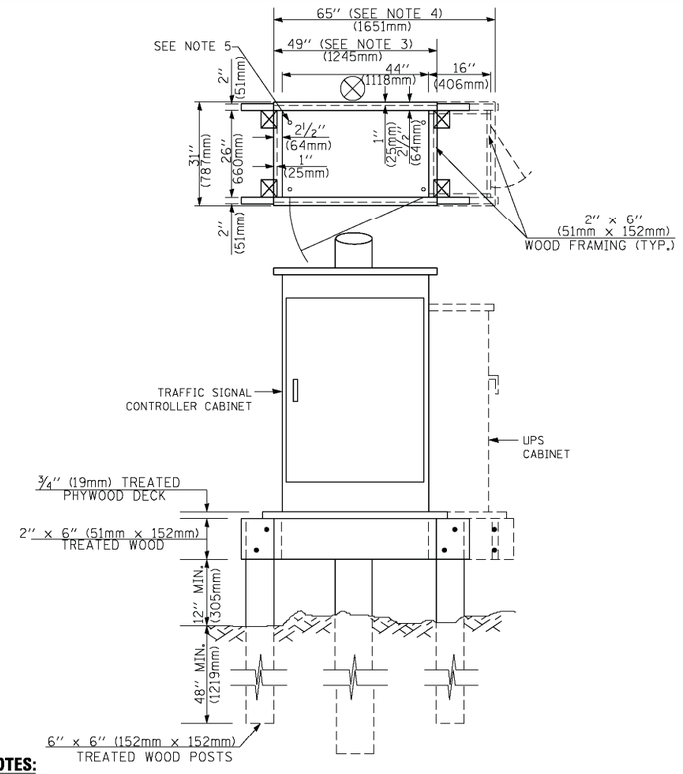
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



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



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
	PLOT SCALE = 50.0000 ' / in.	DRAWN - BCK	REVISED -
	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

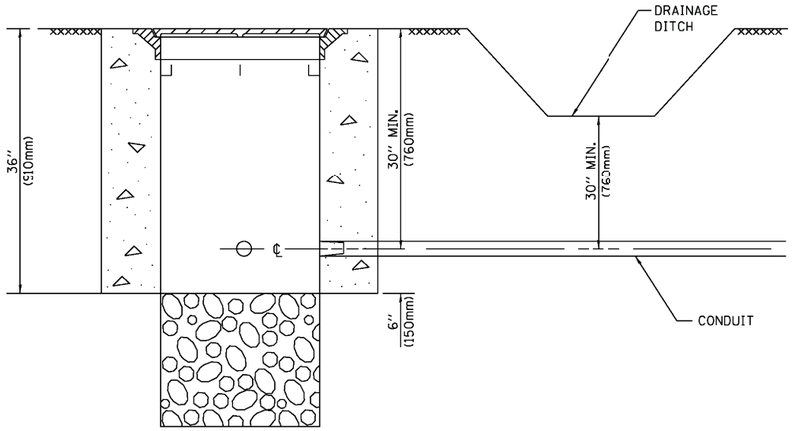
SCALE: NONE | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	29
	TS-05	CONTRACT NO. 61H81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

doconnell

7/27/2022

ts05.dgn 1/13/2014 12:30:27 PM User=footemj

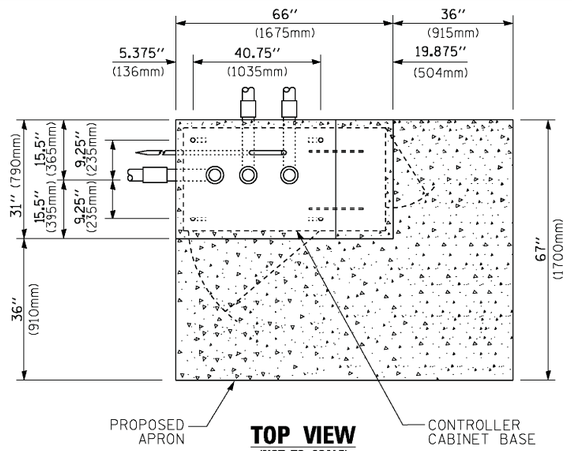


NOTES:

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

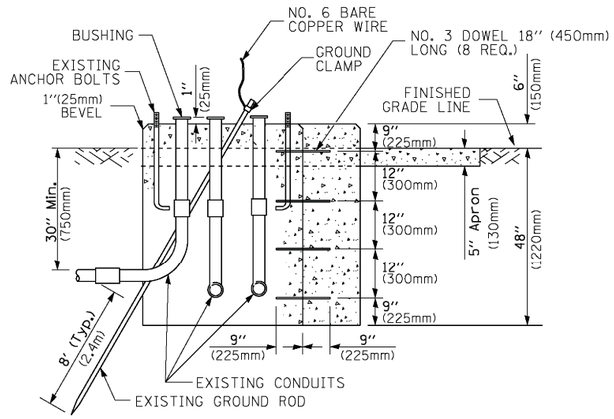
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



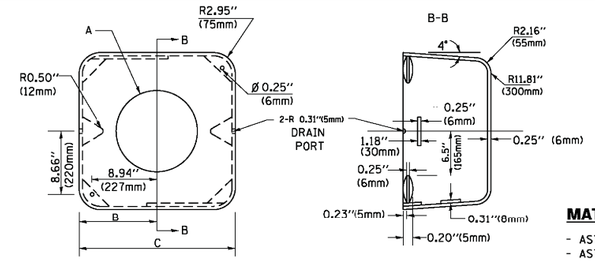
TOP VIEW

(NOT TO SCALE)



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

(NOT TO SCALE)



MATERIAL:

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

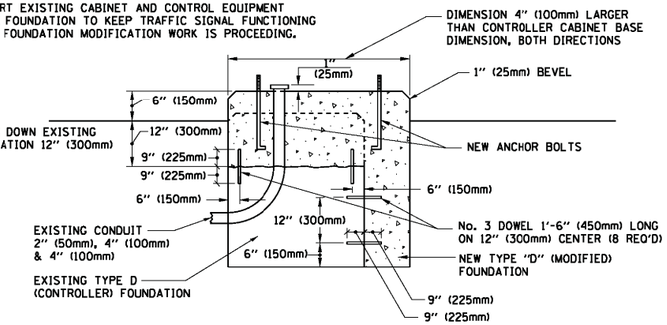
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

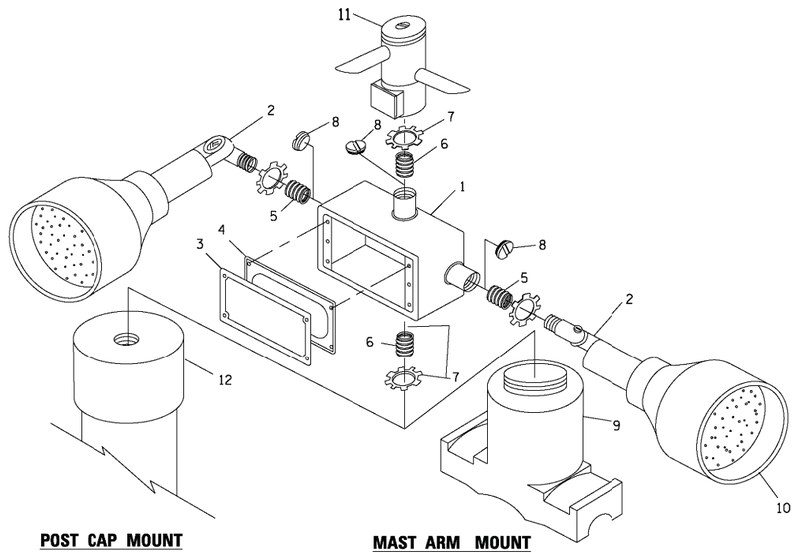
NOTES:

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

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



MODIFY EXISTING TYPE "D" FOUNDATION



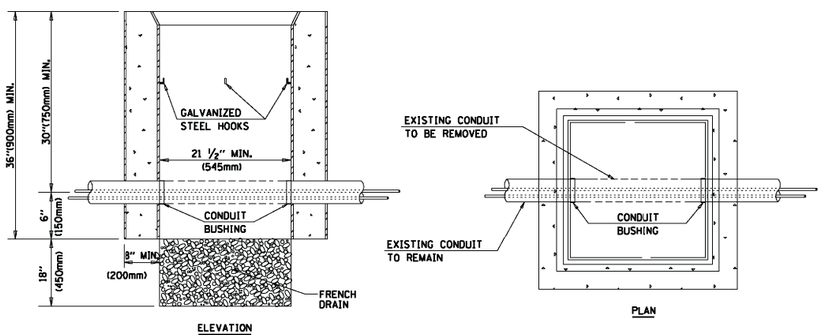
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIREC. 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

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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	30
	TS-05	CONTRACT NO. 61H81		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

dconnell
7/27/2022
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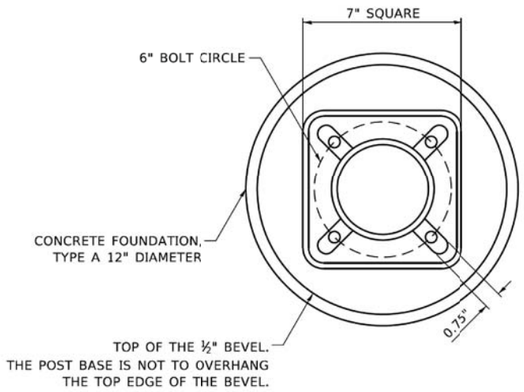
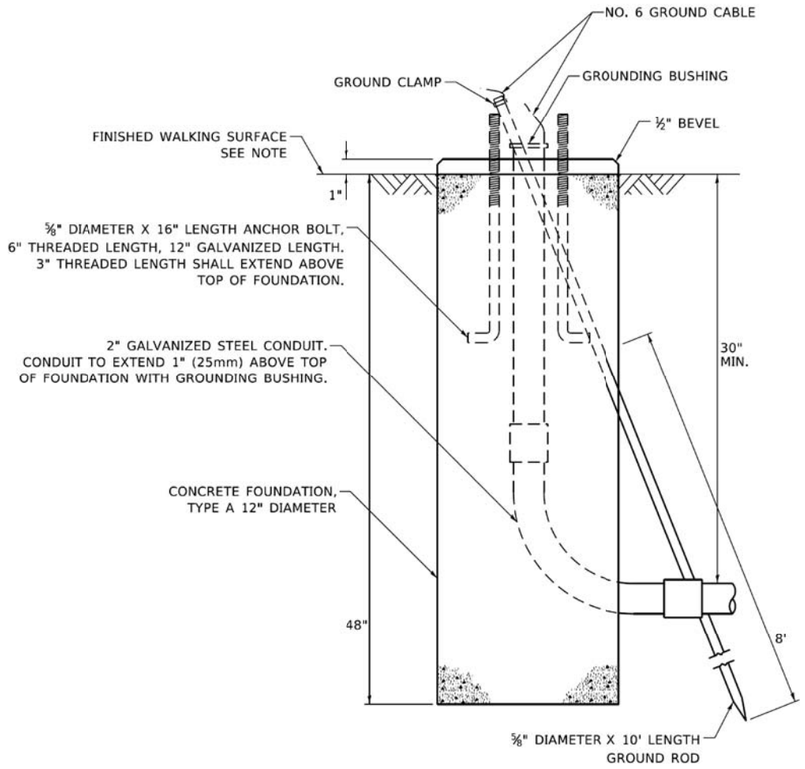


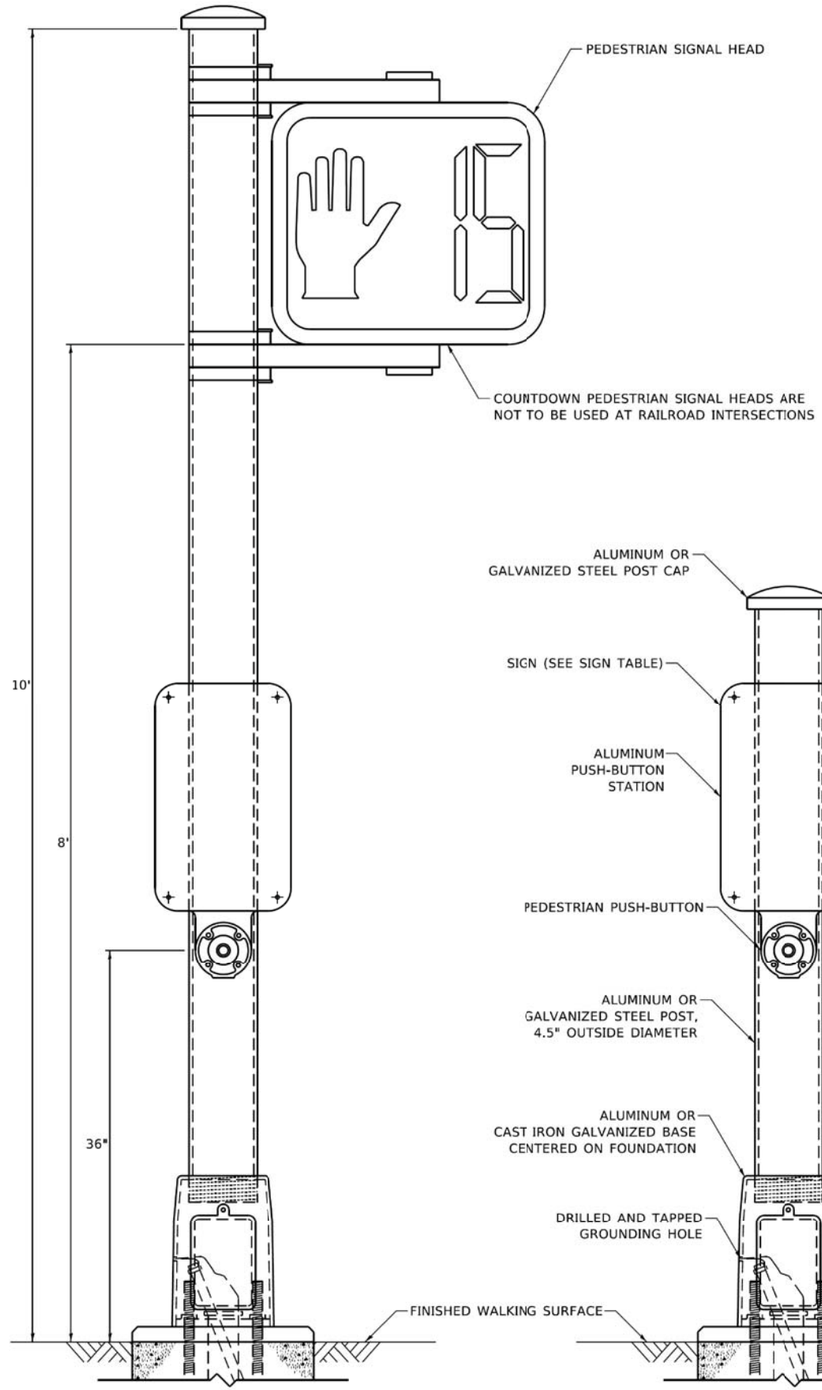
BOLT PATTERN

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.

R10-3b R10-3d R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

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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	DRAWN - IP	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -	
PLOT DATE = 11/17/2020	DATE - 10/15/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NTS | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	31
	TS–05	CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			

dsconnell
7/27/2022

CONSTRUCTION NOTES:

1. THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO ACCOMMODATE THE PROPOSED PEDESTRIAN SIGNALS.
2. ALL PEDESTRIAN PUSHBUTTON SHALL BE APS AND ALL PUSHBUTTON LOCATIONS SHALL MEET ADA/PROWAG REQUIREMENTS. WHERE PROPOSED PEDESTRIAN EQUIPMENT IS TO BE INSTALLED ON EXISTING EQUIPMENT, THE CONTRACTOR WILL BE REQUIRED TO DRILL NEW HOLES IN THE EXISTING TRAFFIC SIGNAL EQUIPMENT TO INSTALL THE PROPOSED PEDESTRIAN PUSH BUTTONS AND PROPOSED PEDESTRIAN SIGNAL HEADS. ALL COSTS ASSOCIATED WITH DRILLING THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE INCLUDED IN THE PAY ITEMS: ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN SIGNAL HEAD.
3. THE CONTRACTOR SHALL ROUTE PROPOSED EQUIPMENT CABLE ON THE NORTHEAST QUADRANT THROUGH THE CONDUIT ON THE EAST LEG.

N

SCALE IN FEET 0 20 40 60

MATCH LINE STA. 118+00
EX ROW
U.S. ROUTE 14 (CALDWELL AVENUE)
124'-E-2"
EX. CALLING DETECTORS
DRILL EXISTING HANDHOLE (1) EACH
5'-E-2"
EX. 16' POST
27'-E-3"
EX. 36' M.A.
EXISTING INTERCONNECT TO GROSS POINT ROAD
TOUHY AVENUE
10' PEDESTRIAN SIGNAL POST 12" DIA. FDN. (4'-0" DEPTH)
APS
17'-UC 2"
6'
31'-E-2"
70'-E-2½"
EX. 34' M.A.
61'-E-3"
51'-E-2"
10' PEDESTRIAN SIGNAL POST 12" DIA. FDN. (4'-0" DEPTH)
5' PEDESTRIAN SIGNAL POST 12" DIA. FDN. (4'-0" DEPTH)
19'-UC 2"
EX. 16' POST
DRILL EXISTING HANDHOLE (2) EACH
225'-E-2"
EXISTING INTERCONNECT TO MOBILE AVENUE
EX ROW
31'-UC 2"
11'-E-2"
100'-E-4"
112
114
84'-E-(2)4"
37'-E-2"
61'-E-4"
61'-E-5"
APPROXIMATE R.O.W. LINE
24'-E-2"
217'-E-2"
EX. 16' POST
12'-UC 2"
10' PEDESTRIAN SIGNAL POST 12" DIA. FDN. (4'-0" DEPTH)
DRILL EXISTING HANDHOLE (1) EACH
4'-E-(2) 4"
11'-E-3"
EX. 32' M.A.
39'-E-1½"
81'-E-4"
81'-E-3"
58'-E-2"
53'-E-2"
10' PEDESTRIAN SIGNAL POST 12" DIA. FDN. (4'-0" DEPTH)
TOUHY AVENUE
EX. 38' M.A.
APPROXIMATE R.O.W. LINE
LANDSCAPE AREA 15'-UC 2"
BUS SHELTER
LANDSCAPE AREA
APPROXIMATE R.O.W. LINE
32'-E-3"
EX. 16' POST
5'-E-2"
DRILL EXISTING HANDHOLE (1) EACH
EX. CALLING DETECTORS
241'-E-1¼"
APPROXIMATE R.O.W. LINE
U.S. ROUTE 14 (CALDWELL AVENUE)
EX ROW
MATCH LINE STA. 122+00

GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

TS 1305
ECON 156

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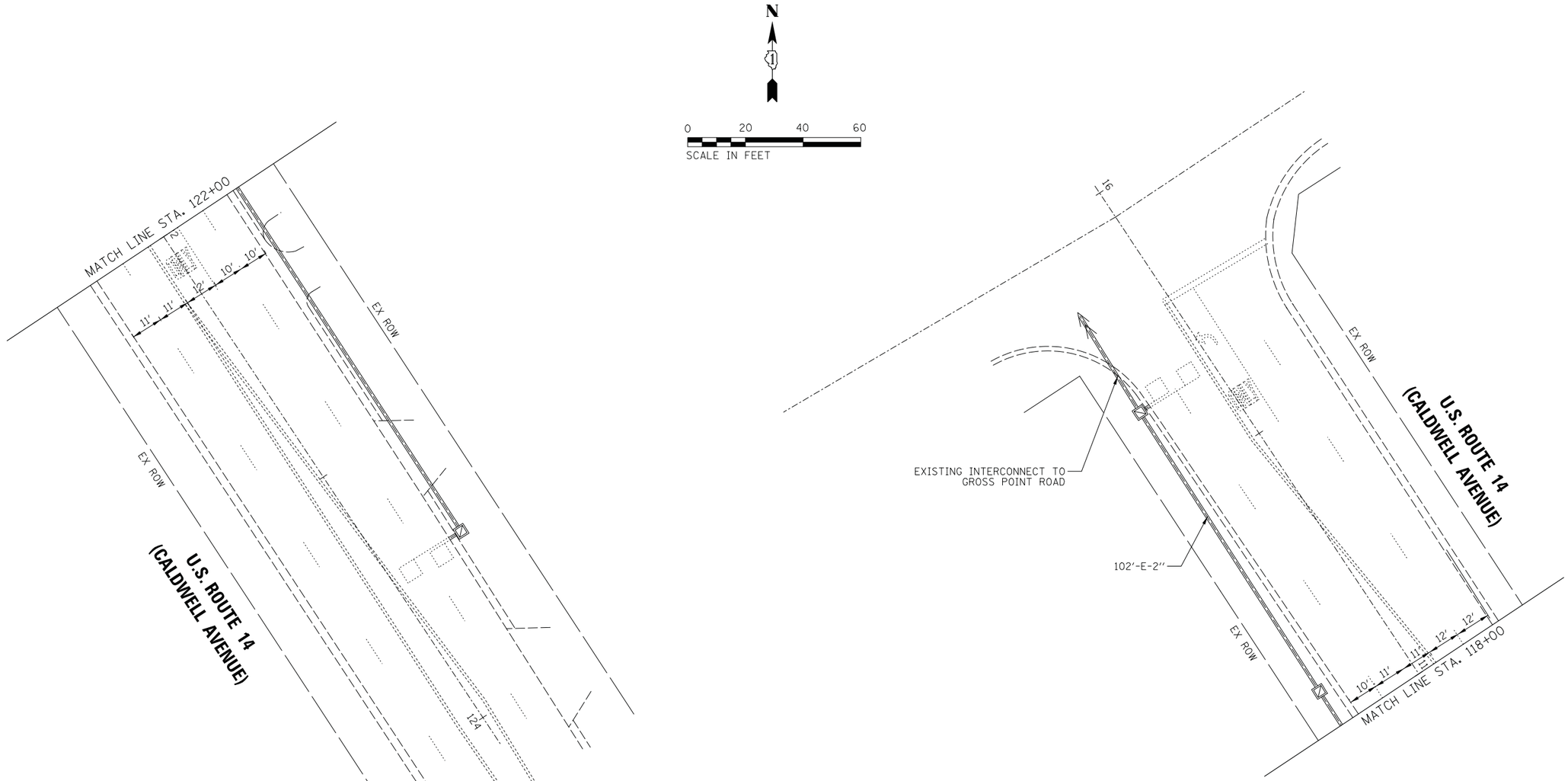
default	PLOT DATE = 8/18/2022	DATE - 1-4-22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
(SHEET 1 OF 2)
TOUHY AVENUE AT U.S. ROUTE 14 (CALDWELL AVENUE)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	45	32
		CONTRACT NO. 61H81		
		ILLINOIS FED. AID PROJECT		



TS 1305
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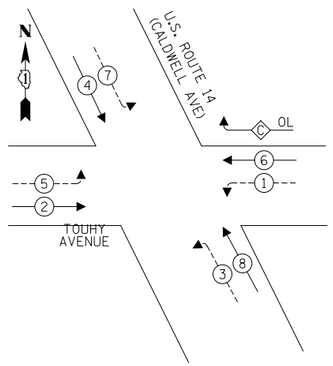
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
(SHEET 2 OF 2)
TOUHY AVENUE AT U.S. ROUTE 14 (CALDWELL AVENUE)

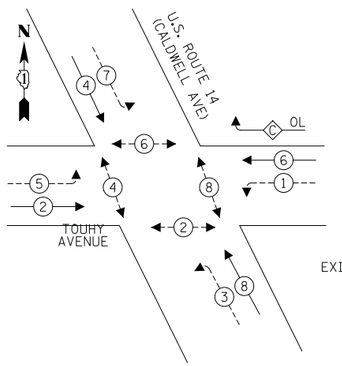
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	33
		CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			

EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



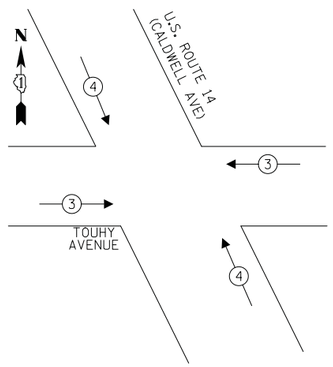
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
C	=	6	+	7

LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



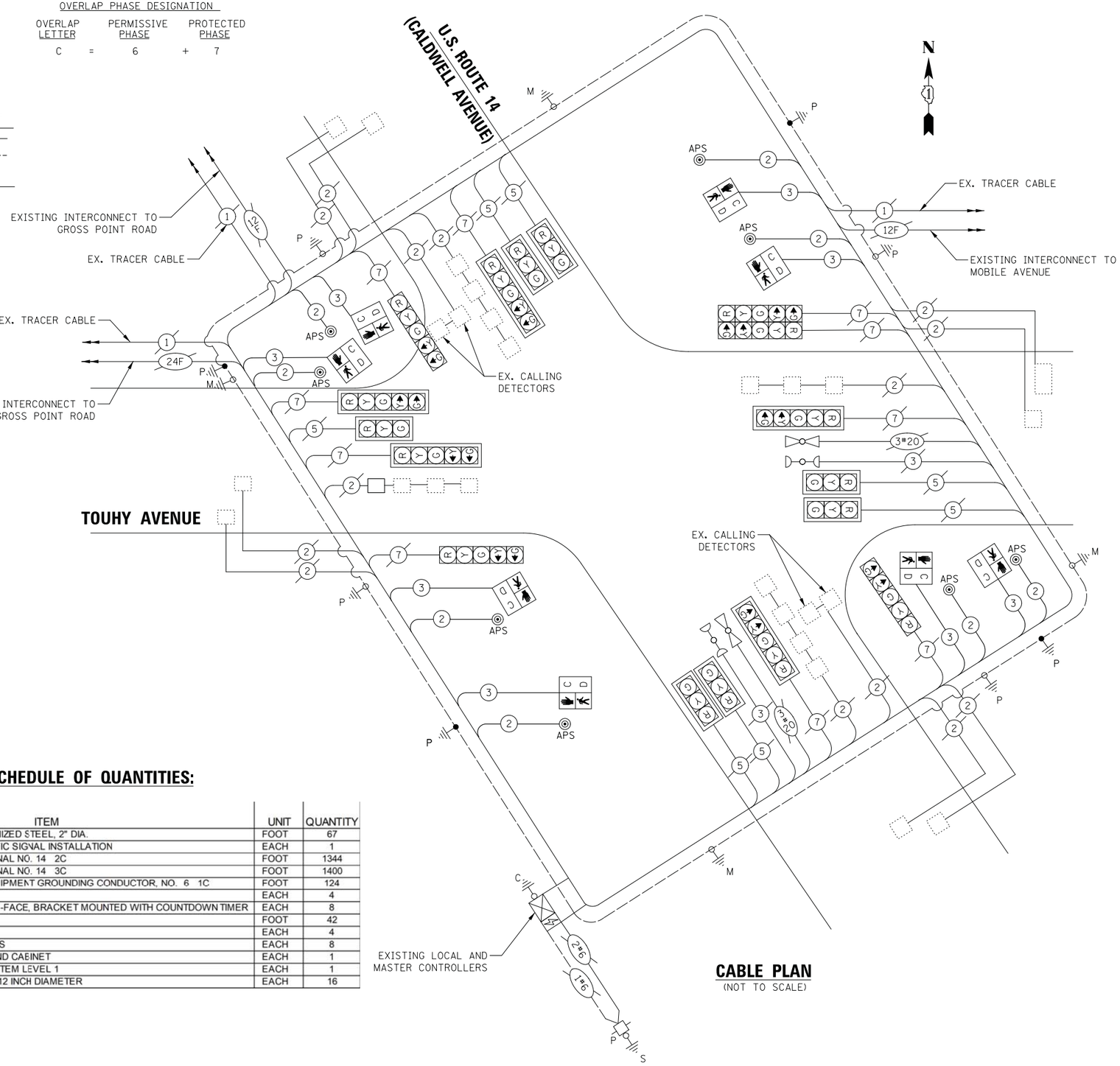
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	11	50	93.5
(YELLOW)	17	20	5	17.0
(GREEN)	17	12	45	91.8
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	2	100	100	200.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	607.3

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: TERRI BLECK
PHONE: (847)816-5239
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES:

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	67
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1344
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1400
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	124
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
DETECTOR LOOP, TYPE I	FOOT	42
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
CONCRETE FOUNDATION, TYPE A 12 INCH DIAMETER	EACH	16

TS 1305
ECON 156

FILE NAME = N:\NILES\190072\Traffic\CAB_Touhy-Caldwell.dgn	USER NAME = doconnell	DESIGNED - BG	REVISED -
		DRAWN - BG	REVISED -
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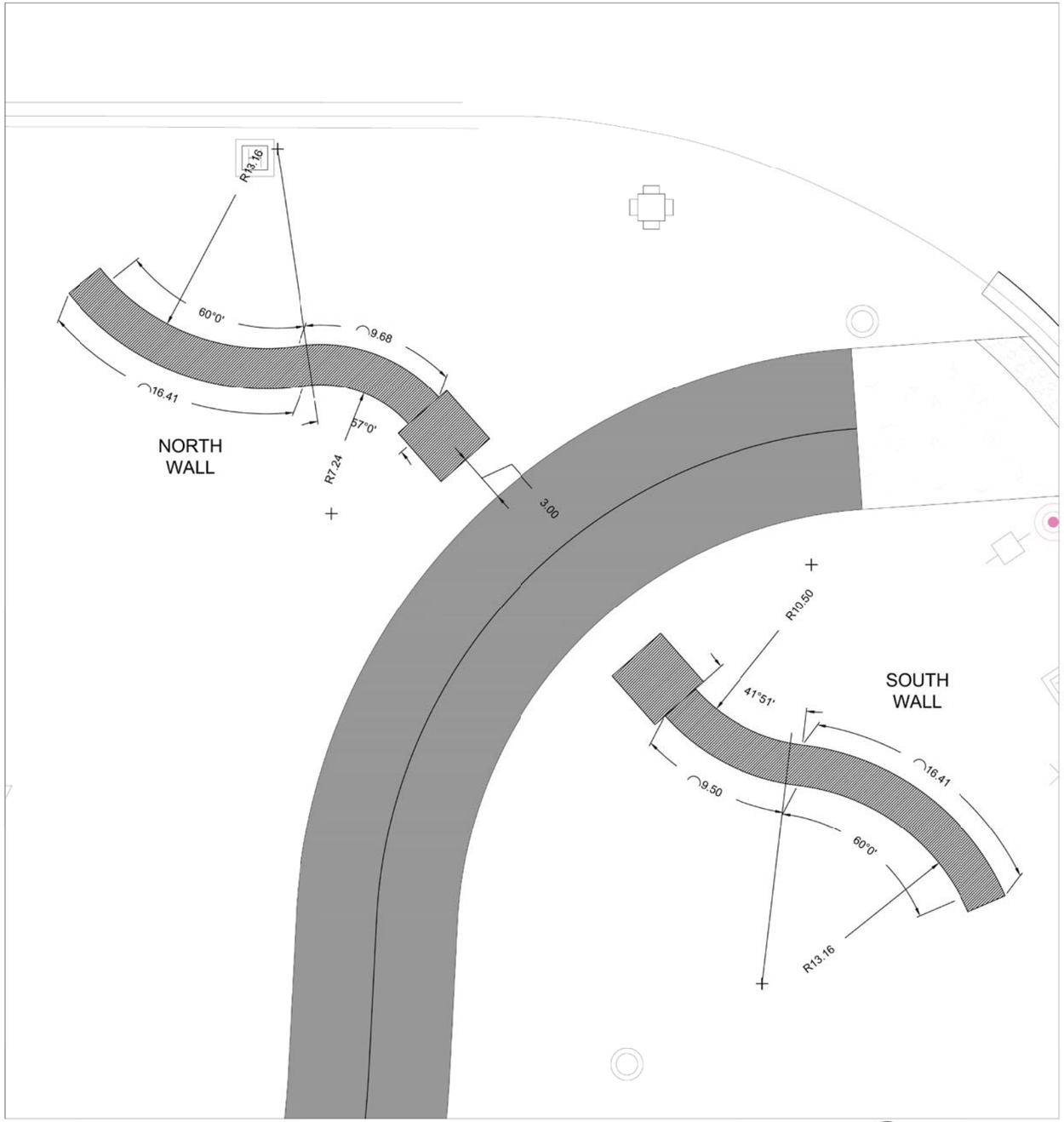
default	PLOT DATE = 7/27/2022	DATE - 1-4-2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
TOUHY AVENUE AT U.S. ROUTE 14 (CALDWELL AVENUE)

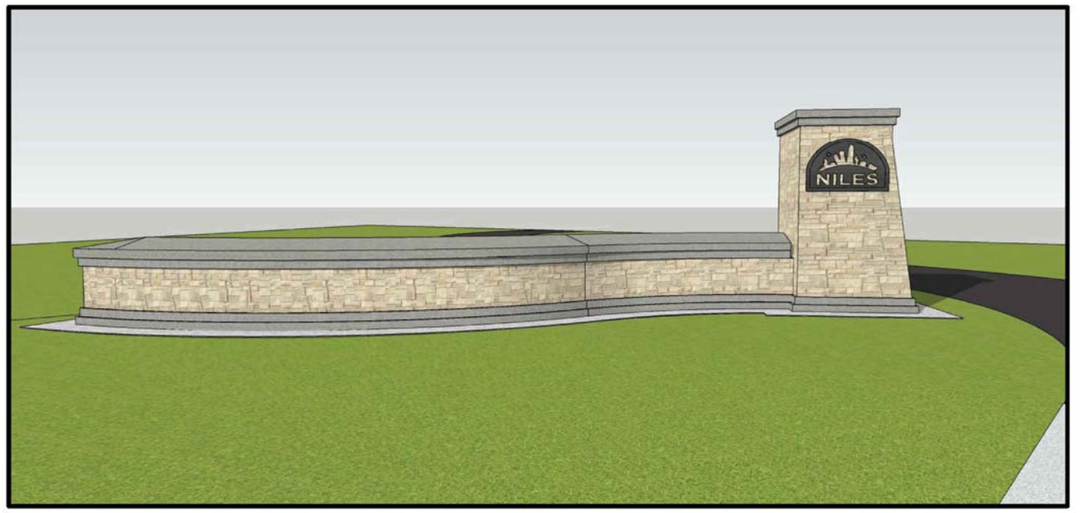
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	34
		CONTRACT NO. 61H81		
		ILLINOIS	FED. AID PROJECT	



WAYFINDING WALL LAYOUT

NORTH WALL

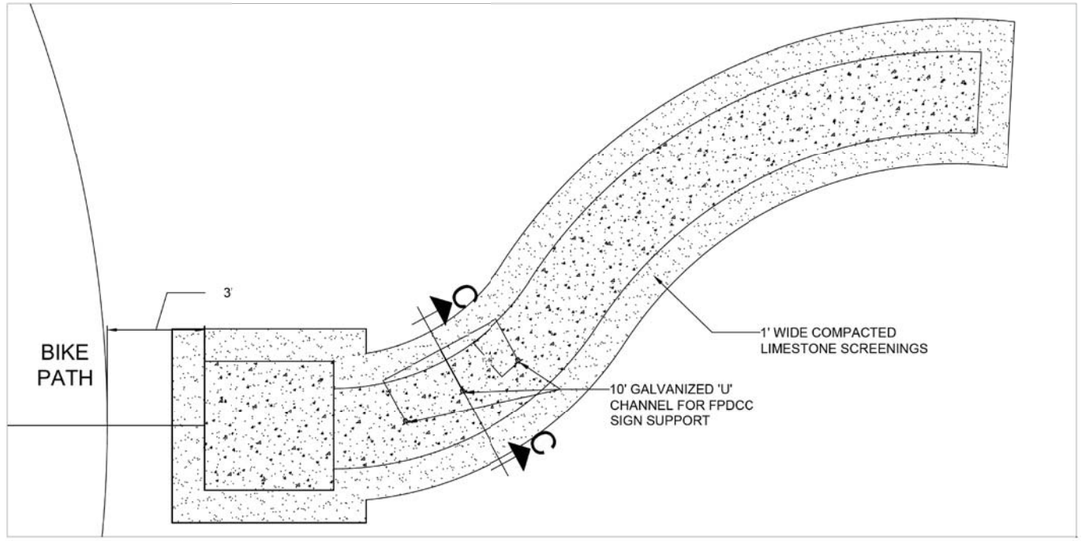


SOUTH WALL

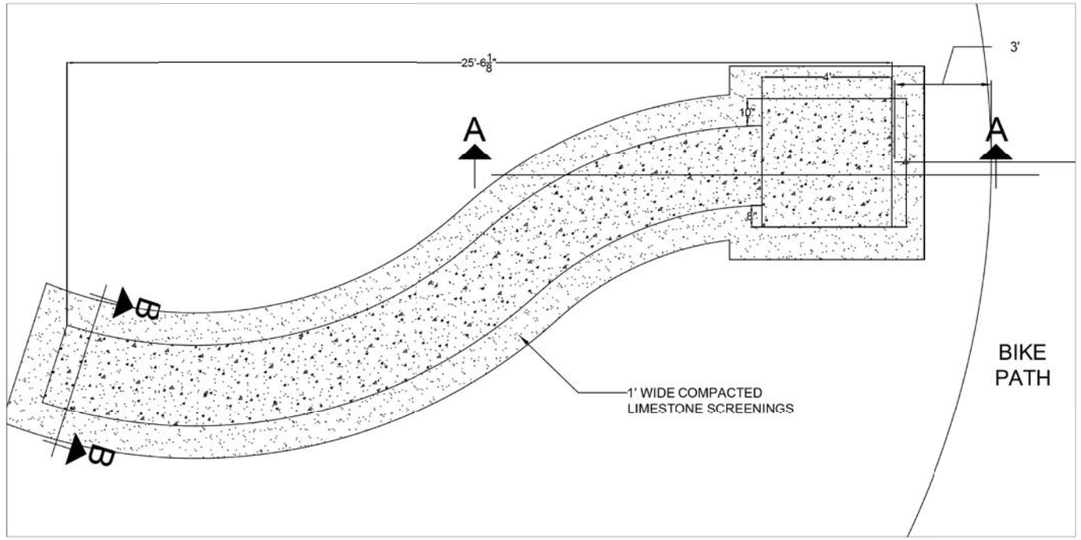
MODEL: Default
FILE NAME: N:\NILES\190072\Civil\LSCP-01_190072.sht

CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	USER NAME = doconnell	DESIGNED - DOC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH TRAIL CONNECTION PROPOSED WAYFINDING DETAILS
		DRAWN - DOC	REVISED -		
	PLOT SCALE = 1'	CHECKED - LMF	REVISED -		
	PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

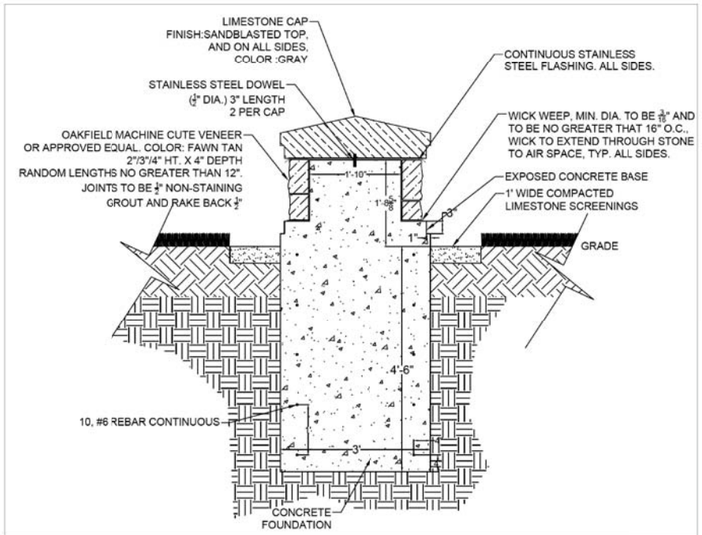
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	35
		CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			



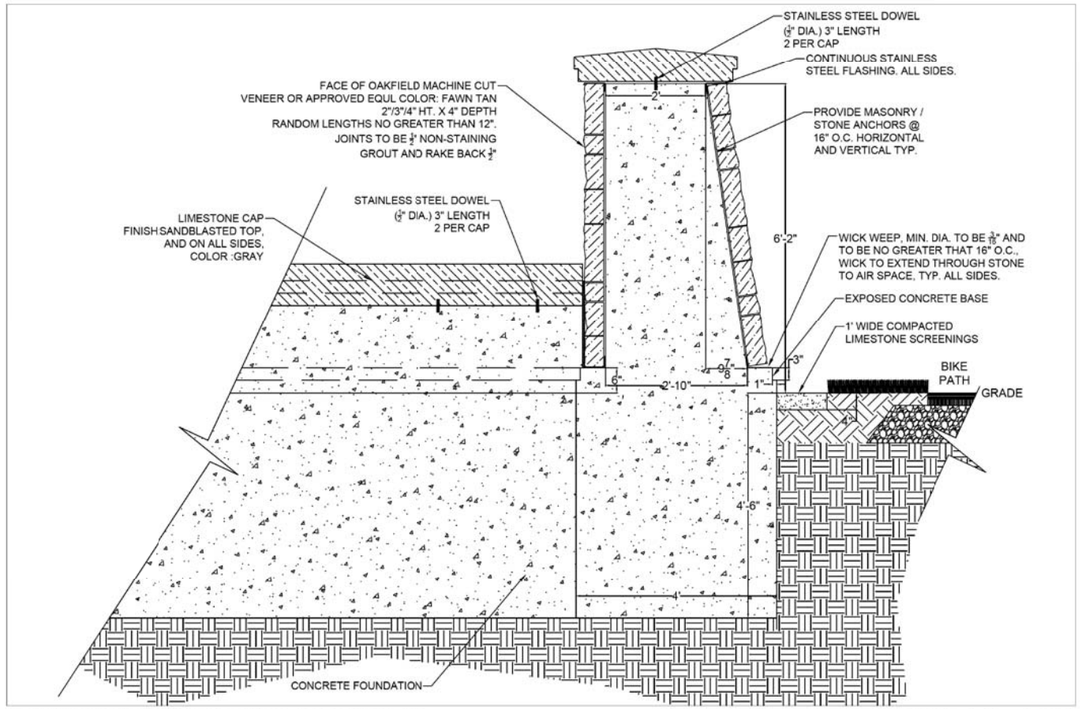
WAYFINDING NORTH WALL PLAN VIEW NTS



WAYFINDING SOUTH WALL PLAN VIEW NTS



WAYFINDING SOUTH WALL SECTION 'B' SCALE 1" = 1 1/2'



WAYFINDING SOUTH WALL SECTION 'A' SCALE 1" = 1 1/2'

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\L5CP-02_190072.sht

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Rosemont, Illinois 60018
(847) 823-0500

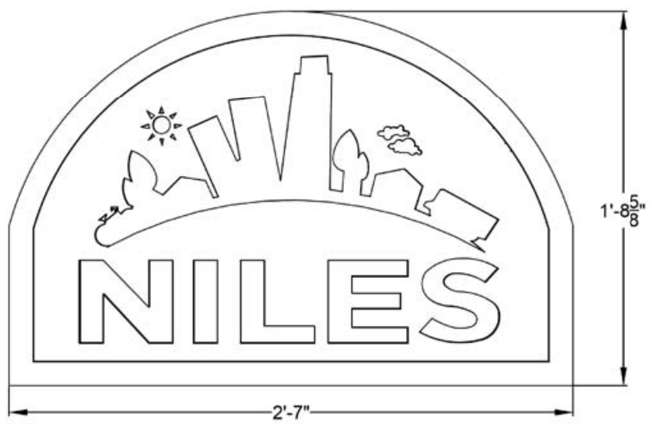
USER NAME = doconnell	DESIGNED - DOC	REVISED - _____	
	DRAWN - DOC	REVISED - _____	
PLOT SCALE = 1'	CHECKED - LMF	REVISED - _____	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
PROPOSED WAYFINDING DETAILS

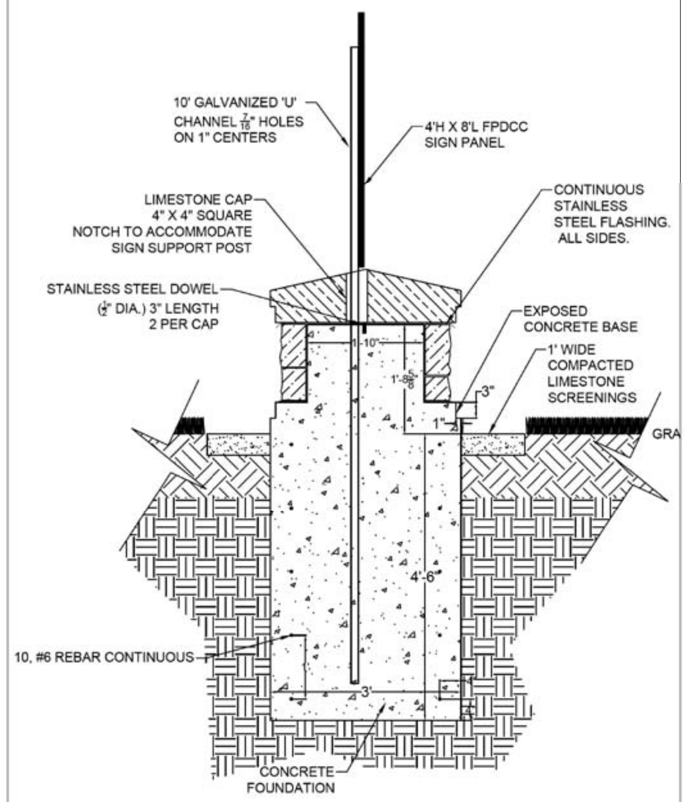
SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	36
		CONTRACT NO. 61H81		
	ILLINOIS FED. AID PROJECT			



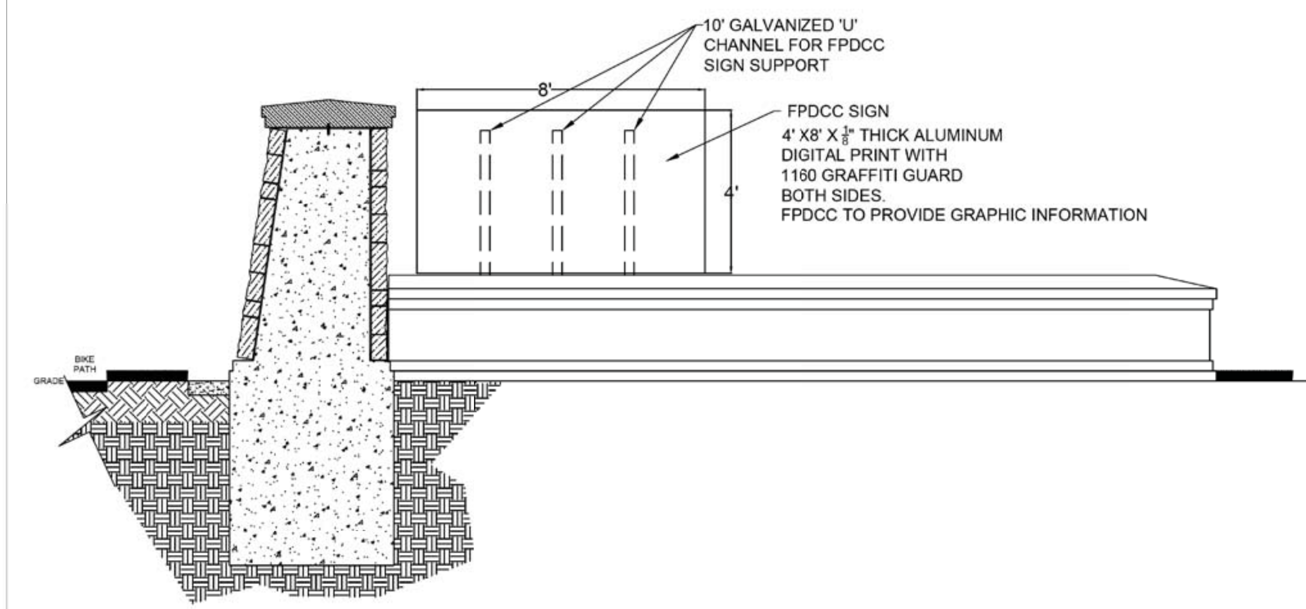
12 GA LASER CUT WEATHERING STEEL PANEL
MOUNTED TO COLUMN WITH STAINLESS STEEL 1" LONG OFFSET PEGS

SOUTH COLUMN 'NILES' SIGN



WAYFINDING NORTH WALL SECTION 'C'

SCALE 1" = 1 1/2'

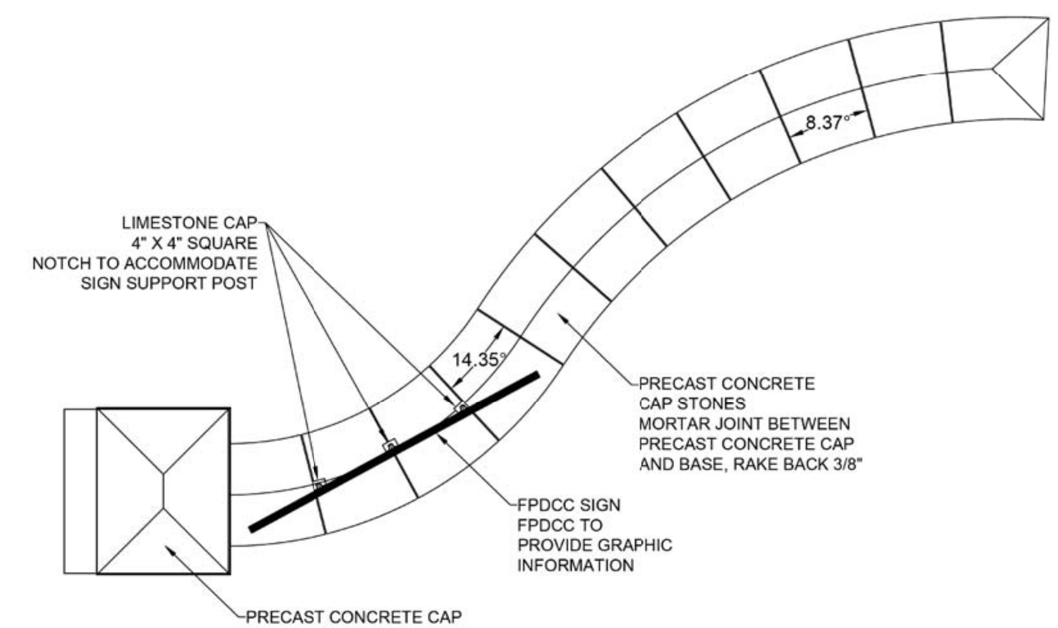


WAYFINDING NORTH WALL PLAN VIEW

NTS

12 GA LASER CUT WEATHERING STEEL PANEL
MOUNTED TO COLUMN WITH STAINLESS STEEL 1" LONG OFFSET PEGS

NORTH COLUMN 'FOREST PRESERVE' SIGN



WAYFINDING NORTH WALL PLAN VIEW

NTS

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\LSCP-03_190072.sht

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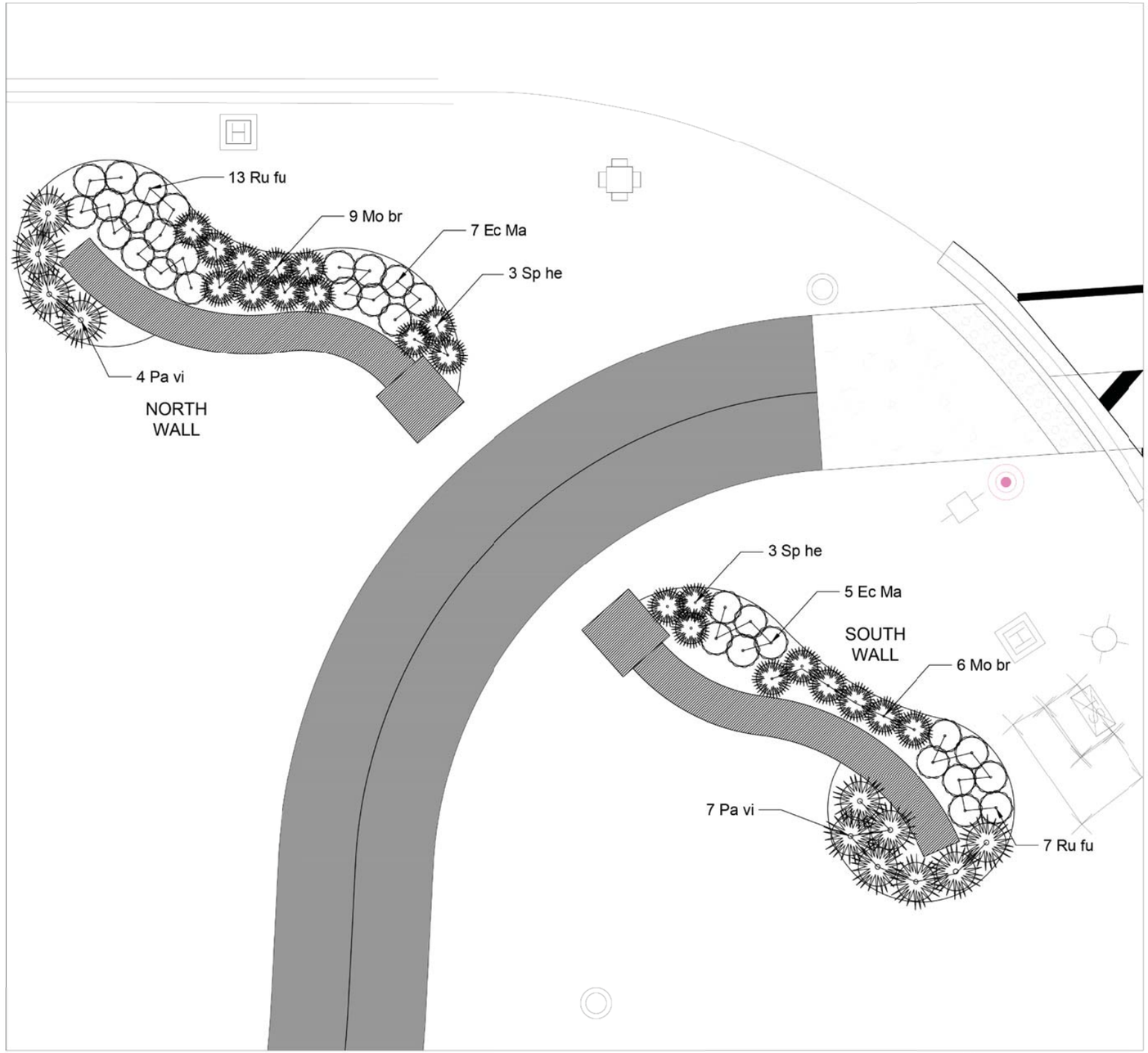
USER NAME = doconnell	DESIGNED - DOC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - DOC	REVISED -	
PLOT SCALE = 1'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

NORTH BRANCH TRAIL CONNECTION
PROPOSED WAYFINDING DETAILS

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

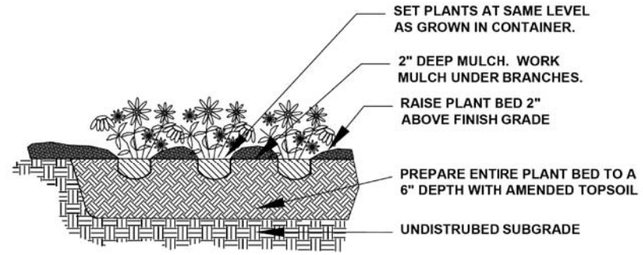
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	37
		CONTRACT NO. 61H81		
		ILLINOIS FED. AID PROJECT		



WAYFINDING WALL LANDSCAPE PLAN

PLANT LIST

Item	Sym.	Botanical Name	Common Name	Qty.	Size	Cond.
		Perennials and Grasses				
K0012990	Ec Ma	Echinacea Magnus	Magnus Purple Coneflower	12	#1	Cont.
K0012990	Mo br	Monarda bradburiana	Eastern Beebalm	15	#1	Cont.
K0012990	Pa vi	Panicum virgatum 'Rotstrahlbusch'	Red Switch Grass	11	#1	Cont.
K0012990	Ru fu	Rudbeckia fulgida 'Goldstrum'	Blackeyed Susan	20	#1	Cont.
K0012990	Sp he	Sporobolus heterolepis	Prairie Dropseed	6	#1	Cont.



PERENNIAL DETAIL

NO SCALE

INCLUDED IN COST OF WAYFINDING SIGN, SPECIAL

GENERAL CONSTRUCTION NOTES:

1. ALL ALTERATIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
2. CONTRACTORS MUST VERIFY ALL QUANTITIES AND OBTAIN ALL PROPER PERMITS AND LICENSES FROM THE PROPER AUTHORITIES.
3. ALL LANDSCAPE IMPROVEMENTS SHALL MEET MUNICIPALITY REQUIREMENTS AND GUIDELINES, WHICH SHALL BE VERIFIED BY MUNICIPAL AUTHORITIES.
4. ALL MATERIAL MUST MEET INDUSTRY STANDARDS AND THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REFUSE ANY POOR MATERIAL OR WORKMANSHIP.
5. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR UNSEEN SITE CONDITIONS.
6. ALL PLANTINGS SHALL BE SPACED EQUAL DISTANT, BACKFILLED WITH AMENDED SOIL IN A HOLE TWICE THE ROOT BALL DIAMETER, WATERED, FERTILIZED, PRUNED AND HAVE ALL TAGS REMOVED.
7. LAWN AND BED AREAS SHALL BE ROTO-TILLED AND CLUMPS OF SOIL, AGGREGATES AND DEBRIS RAKED OUT AND REMOVED FROM THE SITE.
8. ALL DISTURBED AREAS SHALL HAVE A MIN. OF 6" OF TOPSOIL PLACED AND THEN SEED, FERT. AND BLANKET INSTALLED.
9. ALL BEDS SHALL BE EDGED, HAVE WEED PRE-EMERGENT APPLIED AT THE RECOMMENDED RATE, AND SHREDDED HARDWOOD MULCH SPREAD AT A MINIMUM OF 3" DEPTH.
10.. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

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USER NAME = doconnell	DESIGNED - DOC	REVISED -	
	DRAWN - DOC	REVISED -	
PLOT SCALE = 1'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
PROPOSED WAYFINDING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	38
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		

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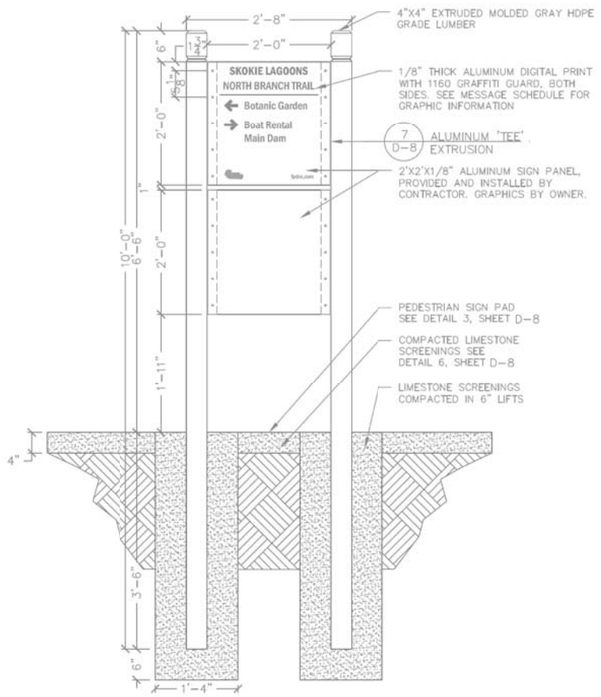
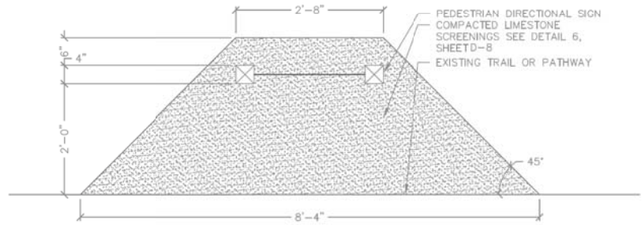


2 3.2 – PEDESTRIAN DIRECTIONAL COMBO SIGN
SCALE: N.T.S.



3 PEDESTRIAN SIGN PAD
SCALE: N.T.S.

MODEL: Default
FILE NAME: N:\NILES\190072\Civil\SCP-05_190072.sht

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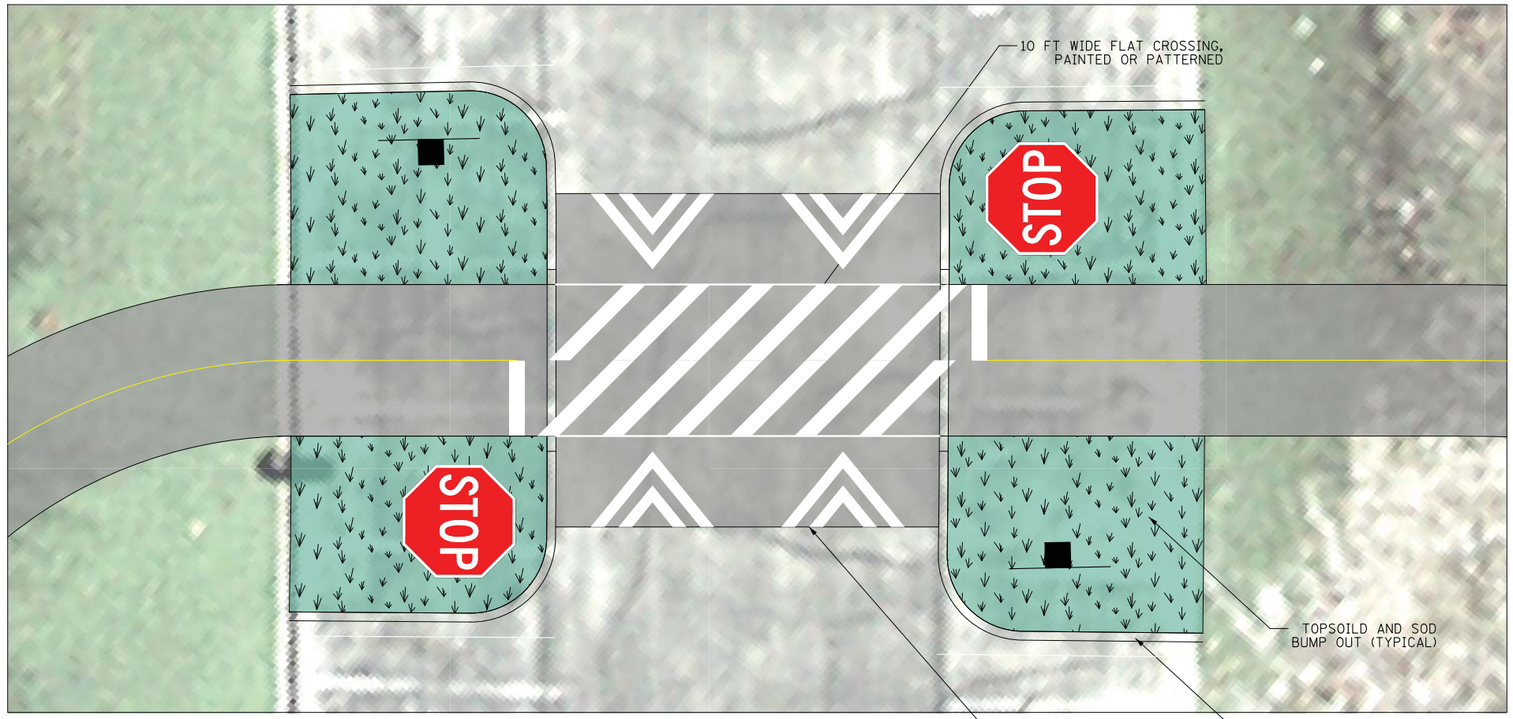
USER NAME = doconnell	DESIGNED - DOC	REVISED -	
	DRAWN - DOC	REVISED -	
PLOT SCALE = 1'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

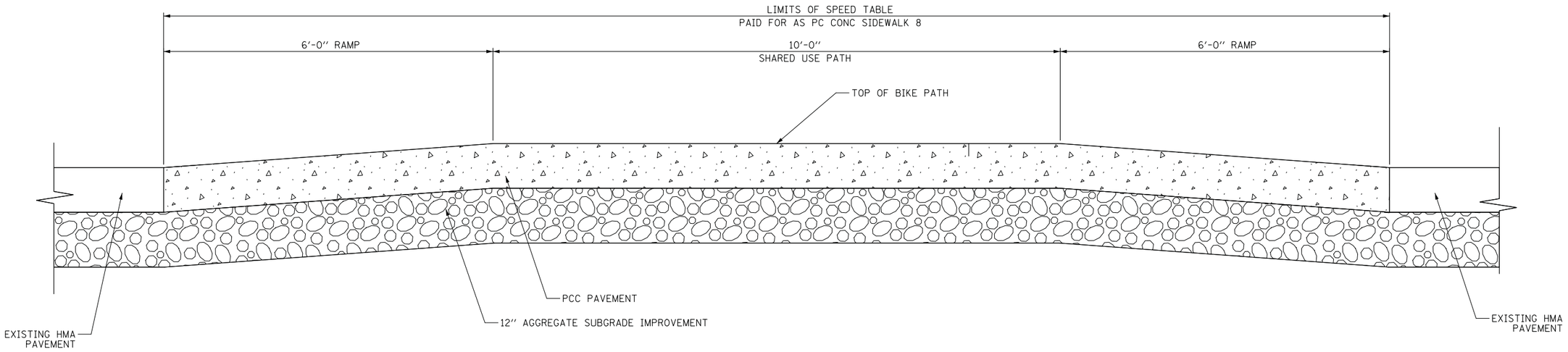
NORTH BRANCH TRAIL CONNECTION
PROPOSED WAYFINDING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	39
		CONTRACT NO. 61H81		
	ILLINOIS	FED. AID PROJECT		



PROPOSED CURB BUMP OUT
SPEED TABLE CROSSING



SECTON THRU SPEED TABLE CROSSING

MODEL: Default
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Rosemont, Illinois 60018
(847) 823-0500

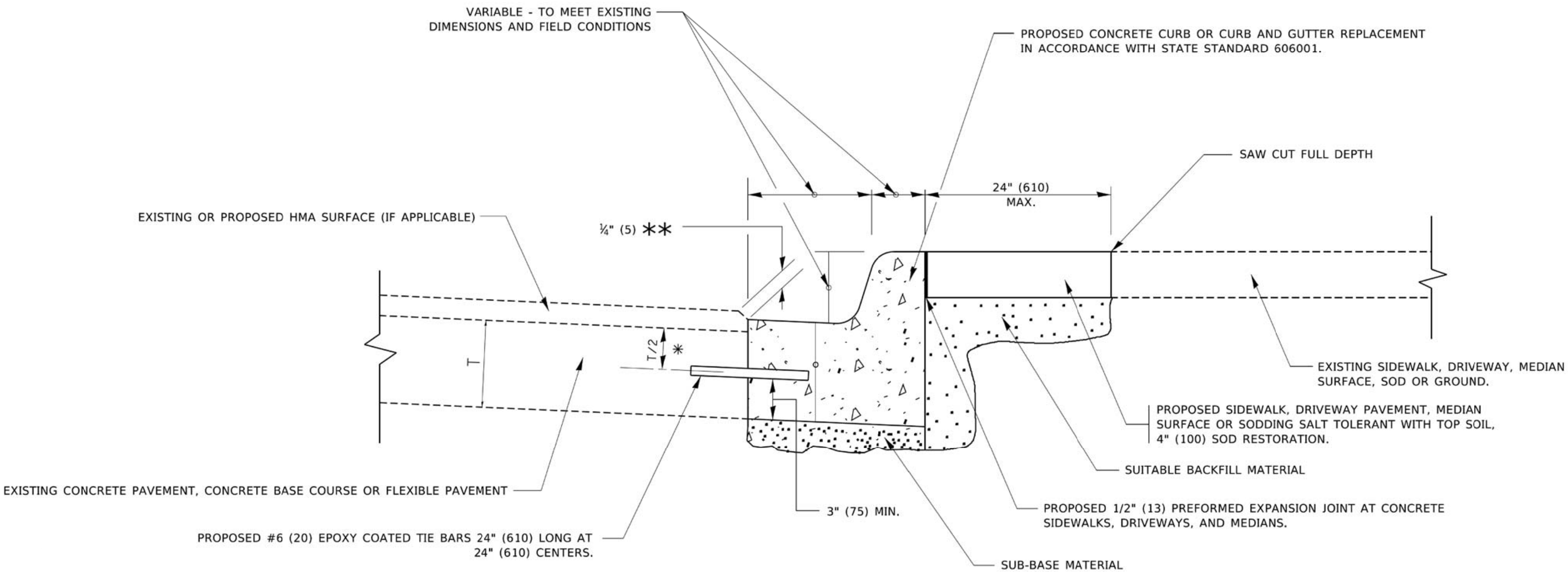
USER NAME = doconnell	DESIGNED - DOC	REVISED -	
	DRAWN - DOC	REVISED -	
PLOT SCALE = 5'	CHECKED - LMF	REVISED -	
PLOT DATE = 7/27/2022	DATE - 7/27/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL CONNECTION
SPEED TABLE DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	40
		CONTRACT NO. 61H81		
	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.

USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	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	

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	41
BD600-06 (BD-24)		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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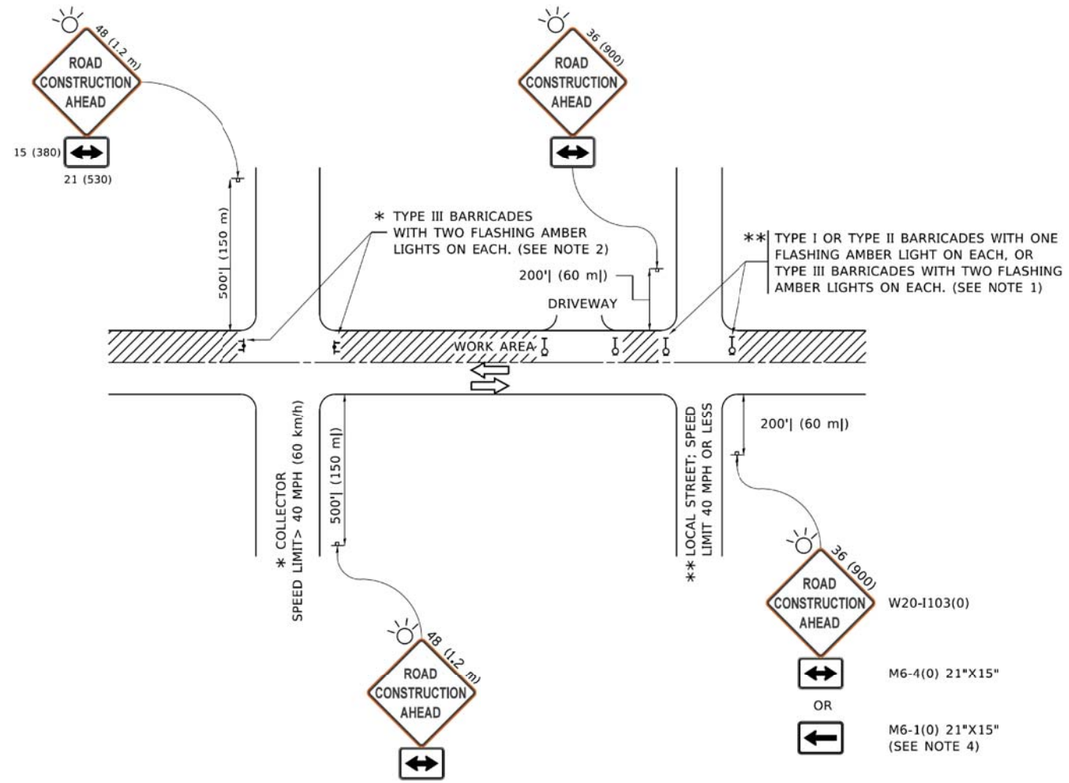

NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	42
	TC-10	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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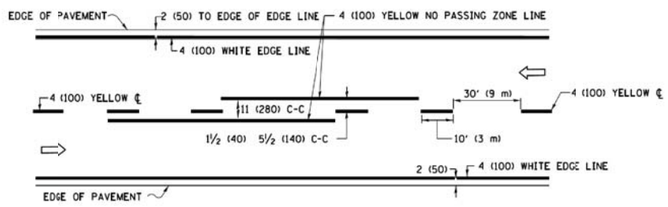
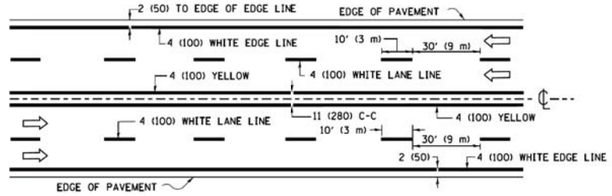
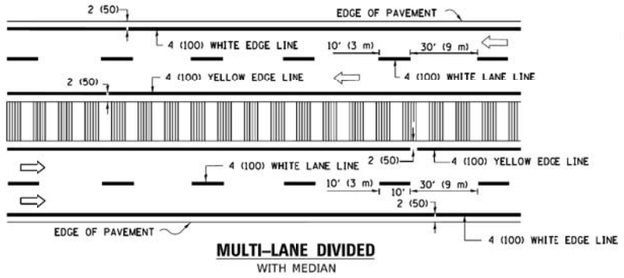


2–LANE ROADWAY

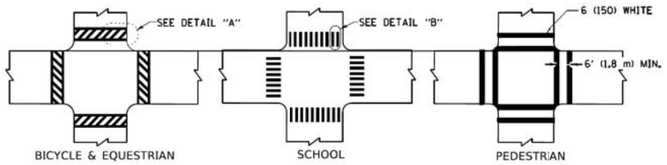


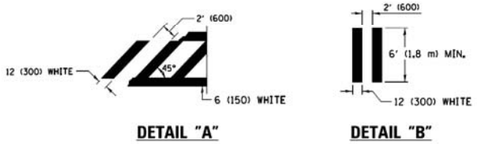
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

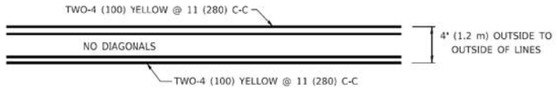




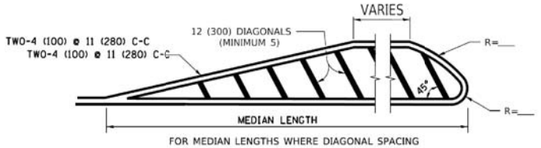
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



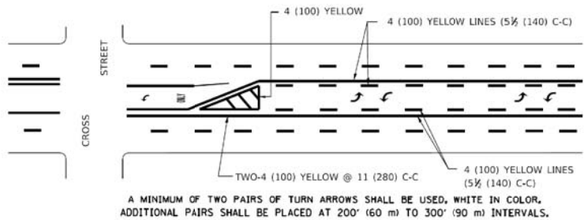
4' (1.2 m) WIDE MEDIANS ONLY



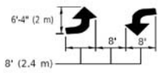
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

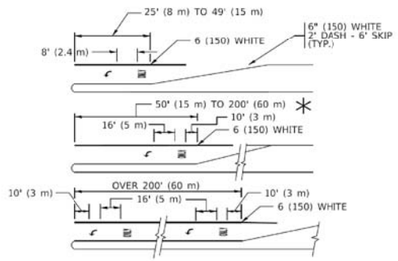


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

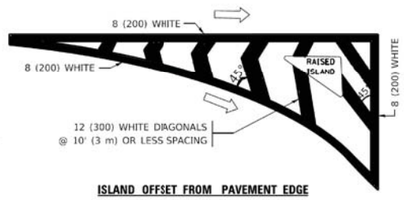


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²

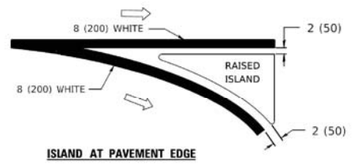
✱ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

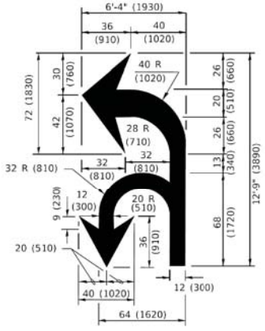


ISLAND OFFSET FROM PAVEMENT EDGE

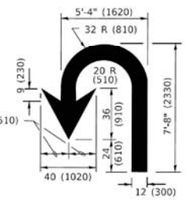


ISLAND AT PAVEMENT EDGE

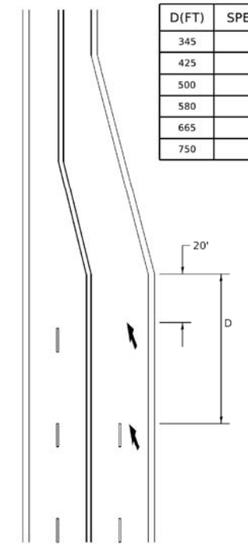
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT; OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m² EACH "X"=54.0 SQ. FT. (5.0 m²
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**DISTRICT ONE** **TYPICAL PAVEMENT MARKINGS**	
	DRAWN -	REVISED - C. JUCIUS 07-01-13			
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15		SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	43
	TC–13	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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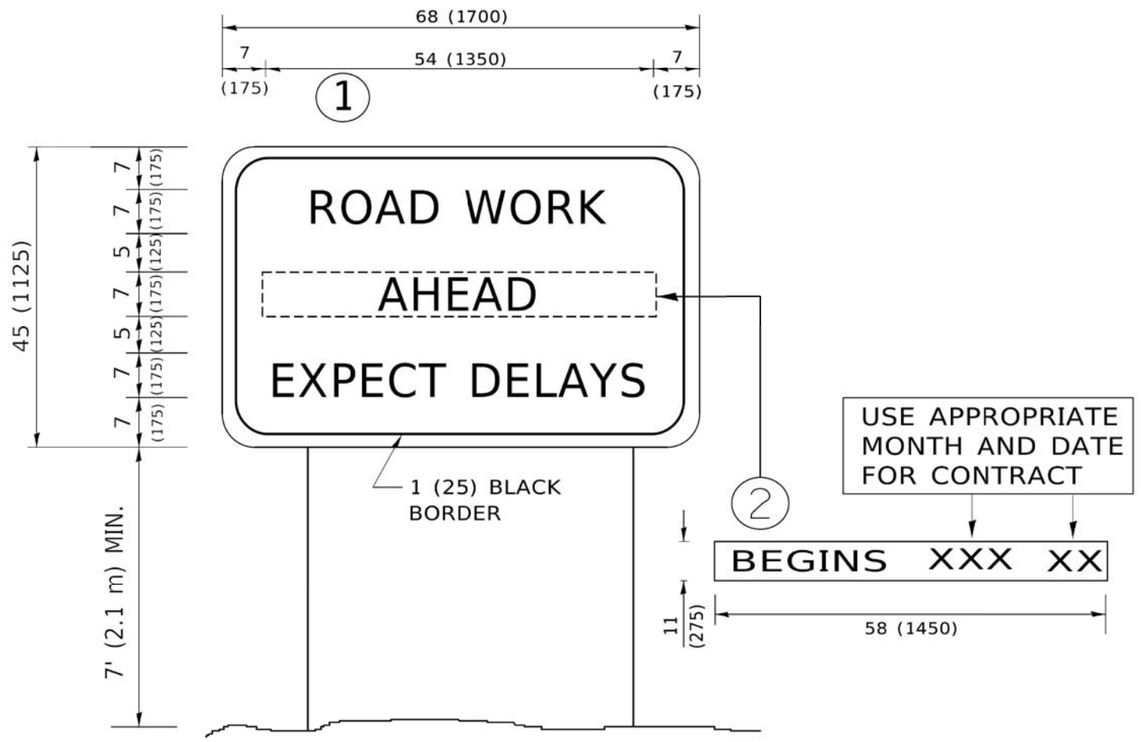

NOTES:

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

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

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0375	19-00135-00-BT	COOK	47	44
	TC-22	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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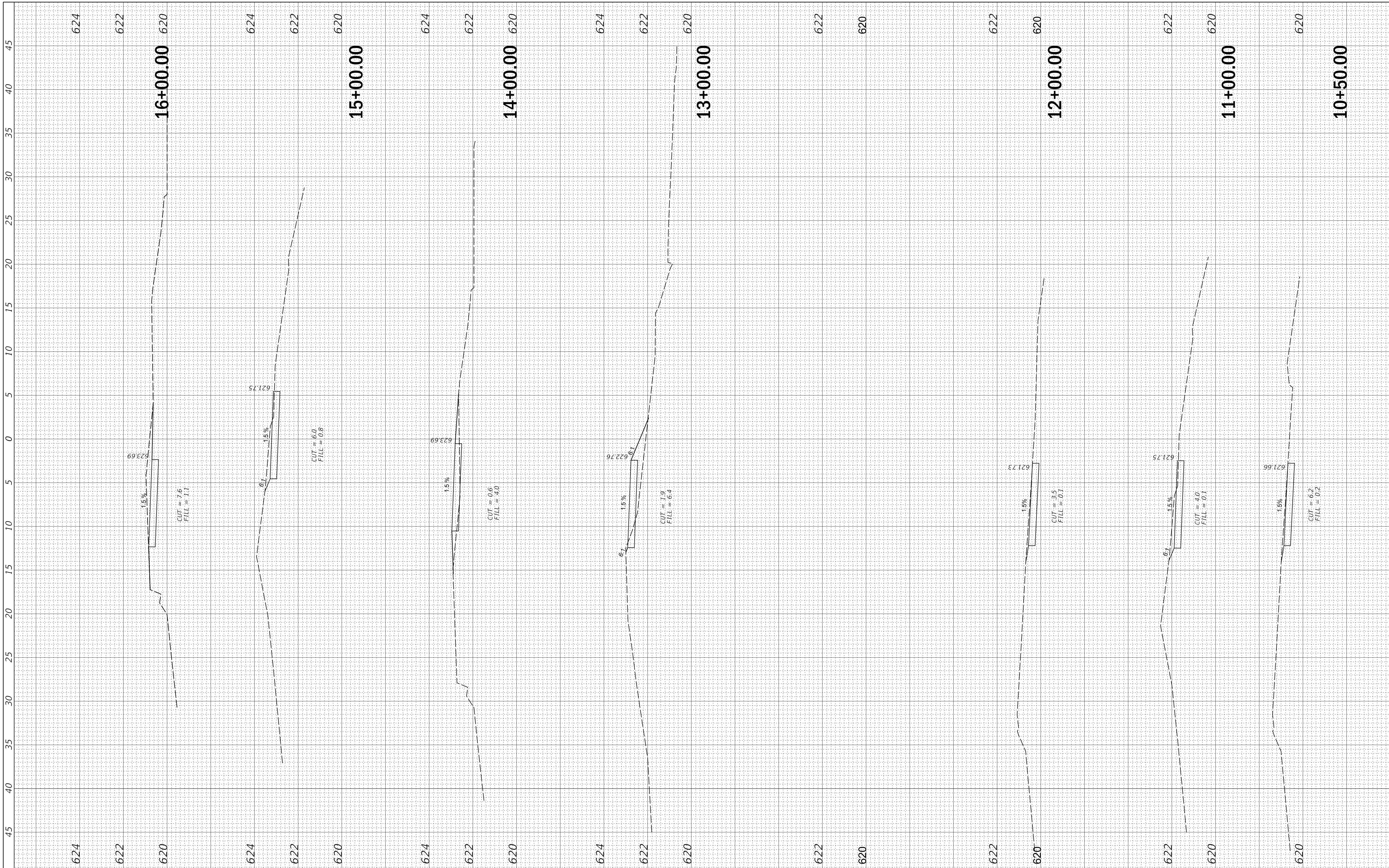

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.__	SURVEYED __ PLOTTED __ TEMPLATE __ AREAS __ AREAS CHECKED __		

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

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Default

USER NAME = doconnell

PLOT SCALE = 5'

PLOT DATE = 7/27/2022

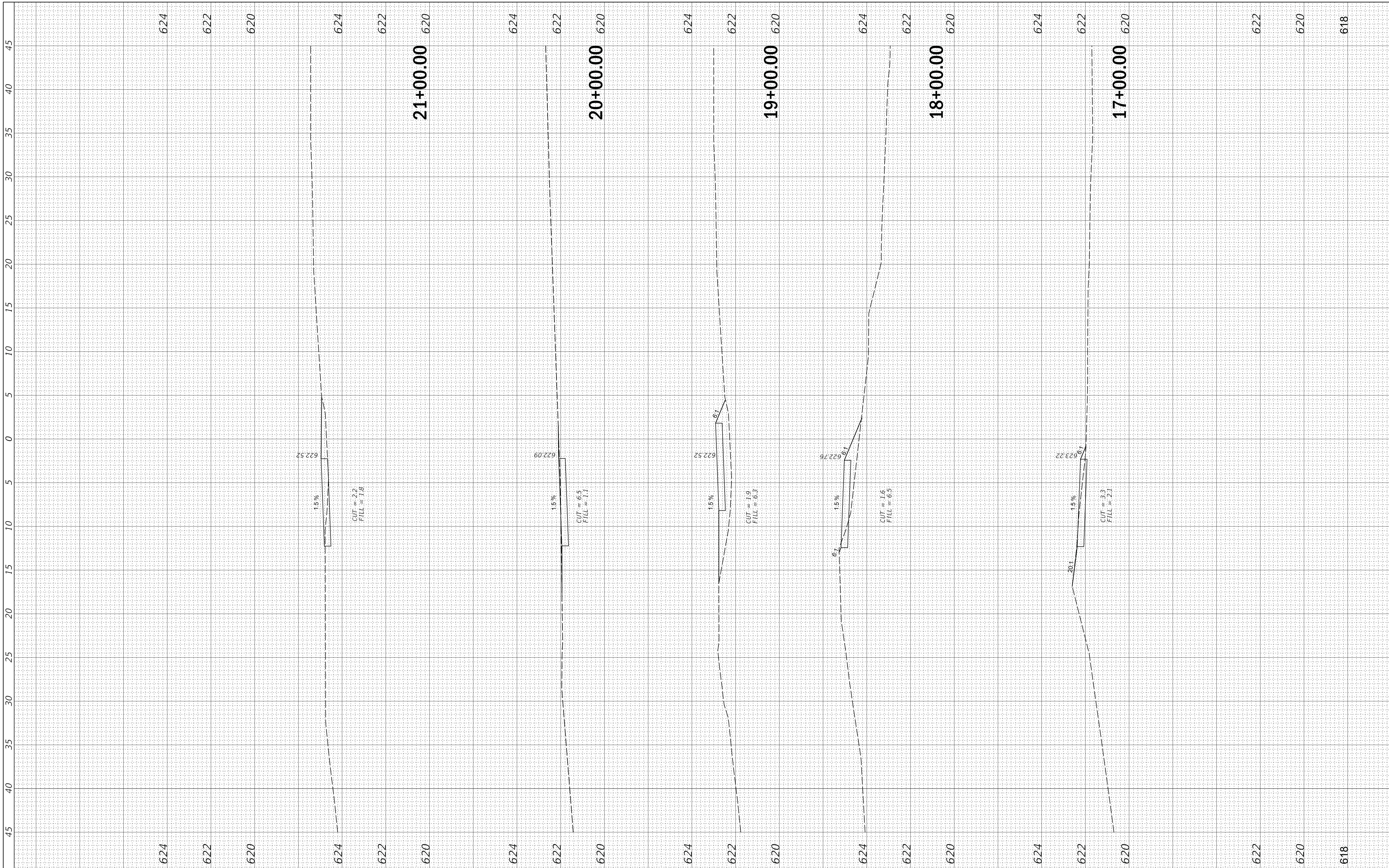
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: ____ SHEET ___ OF ___ SHEETS STA. 10+50.00 TO STA. 16+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1332	19-00108-01-BT	COOK	47	45
	CONTRACT NO. 61H81			
	ILLINOIS FED. AID PROJECT			



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

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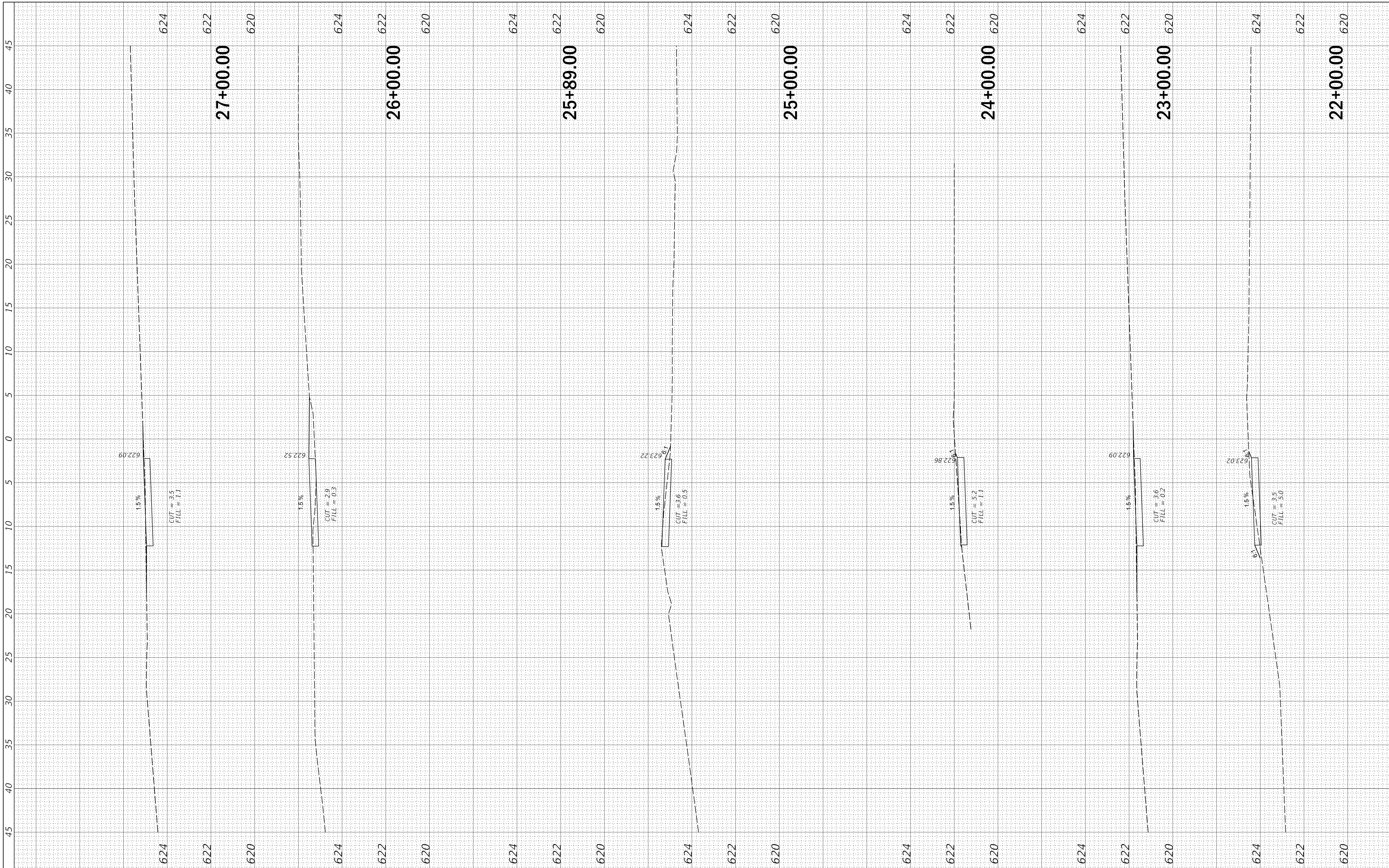
		DRAWN -	REVISED -
	PLOT SCALE = 5'	CHECKED -	REVISED -
Default	PLOT DATE = 7/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: ________ SHEET ___ OF ___ SHEETS STA. 16+14.00 TO STA. 21+43.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1332	19-00108-01-BT	COOK	47	45
	CONTRACT NO. 61H81			
	ILLINOIS FED. AID PROJECT			



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

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

FILE NAME = N:\NILES\190072\Civil\XSEC_190072.sht	USER NAME = doconnell	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 5'	CHECKED -	REVISED -
Default	PLOT DATE = 7/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET ___ OF ___ SHEETS STA. 22+00.00 TO STA. 26+47.67

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1332	19-00108-01-BT	COOK	47	45
		CONTRACT NO. 61H81		
		ILLINOIS FED. AID PROJECT		