

FULL SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	1
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR INDEX OF HIGHWAY STANDARDS SEE SHEET NO. 2
 11-17-2023 LETTING ITEM 007

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

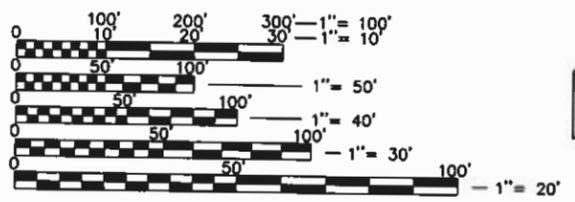
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. 1537 71ST STREET AT
 F.A.P. 348 IL 43 (HARLEM AVE)
 PAVEMENT WIDENING AND
 SIGNAL MODIFICATIONS
 SECTION: 16-00038-00-CH
 PROJECT NO.: JS4M(665)
 JOB NO.: C-91-254-16
 VILLAGE OF BEDFORD PARK
 COOK COUNTY



PROJECT IS LOCATED IN THE VILLAGES OF
 BEDFORD PARK AND BRIDGEVIEW

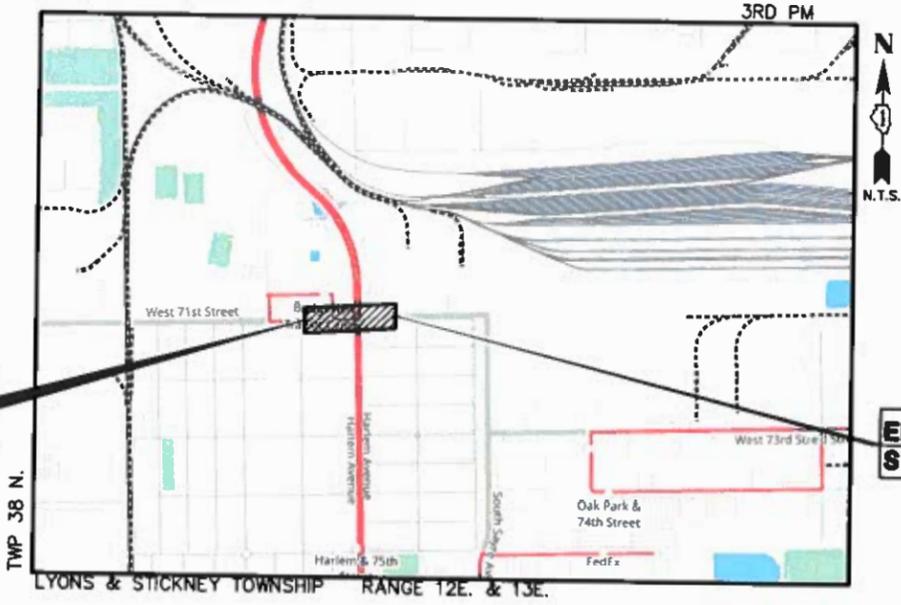
TRAFFIC DATA
DESIGN DESIGNATION:
71ST STREET
 CLASSIFICATION = MAJOR COLLECTOR
 POSTED SPEED = 30 MPH/35 MPH
 DESIGN SPEED = 35 MPH
IL 43 (HARLEM AVE)
 CLASSIFICATION = PRINCIPAL ARTERIAL
 POSTED SPEED = 40 MPH
 DESIGN SPEED = 45 MPH
ADT:
 IL 43 (HARLEM AVE) N. OF 71ST STREET = 54,937
 IL 43 (HARLEM AVE) S. OF 71ST STREET = 44,000
 71ST STREET W. OF IL 43 (HARLEM AVE) = 11,036
 71ST STREET E. OF IL 43 (HARLEM AVE) = 11,875



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

BEGIN IMPROVEMENTS
 STA. 12+70.91



END IMPROVEMENTS
 STA. 22+08.18

LOCATION MAP
 (Not to Scale)

PAGES OR SHEETS
 COVERED BY THIS SEAL:
 ROADWAY PLANS
 (SHEETS 1-29, 50-65)



SIGNED: Mark G. F. Cobb
 MARK G. F. COBB, P.E.
 DATE: FEBRUARY 14, 2023
 ILLINOIS LICENSE NO.: 062-067573
 EXPIRATION DATE: NOVEMBER 30, 2023

PAGES OR SHEETS
 COVERED BY THIS SEAL:
 SIGNAL PLANS
 (SHEETS 30-49)



SIGNED: Ross J. Hasegan
 ROSS J. HASEGAN, P.E., PTOE
 DATE: FEBRUARY 14, 2023
 ILLINOIS LICENSE NO.: 062-066228
 EXPIRATION DATE: NOVEMBER 30, 2023

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

Approved FEBRUARY 13TH 2023
Allyson J. Hill
 Village of Bedford Park, Village Engineer

Approved FEBRUARY 14TH 2023
Thomas R. Brandstall
 Village of Bridgeview, Village Engineer

Passed 2.21 2023
C. H. H. H.
 District One Engineer of Local Roads & Streets

Releasing for Bid
 Based on
 Review FEBRUARY 21 2023
Jose Luis Lopez
 Regional Engineer

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive Vernon Hills, IL 60061
 TEL 847.478.9700 FAX 847.478.9701
 GHA JOB #5102.810

CONTRACT NO. 61J45

GROSS LENGTH OF PROJECT = 937.27 FEET = (0.18 MILES)
 NET LENGTH OF PROJECT = 937.27 FEET = (0.18 MILES)

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

SHEET INDEX

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HIGHWAY STANDARDS

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
601001-05	PIPE UNDERDRAINS
602301-04	INLET TYPE A
602401-07	PRECAST MANHOLE, TYPE A, 4' (1.22m) DIAMETER
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS, TYPE 1
604051-04	FRAME AND GRATE TYPE 11
604091-05	FRAME AND GRATE TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAIL
720006-04	SIGN PANEL ERECTION DETAIL
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE, 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2023, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES.
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.
- 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 THE 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.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT Kalpana.Kannan-Hosadurga@illinois.gov AT LEAST 72 HOURS BEFORE BEGINNING WORK.
- TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, AMOD ALHUSSEINI, VIA EMAIL AT emad.alhusseini@illinois.gov.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED A MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
- CONTRACTOR TO ADHERE TO HIGHWAY STANDARDS TO REMOVE AND REPLACE THE CURB AND GUTTER AND PAVEMENT PATCHING, AS DEPICTED IN THE PLANS. CONTRACTOR IS TO BACKFILL ANY EXCAVATED AREAS AT THE END OF EACH WORK DAY TO ELIMINATE AND DROP-OFF.

UTILITY NOTES

- MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FORM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.

DISTRICT ONE DETAILS

BD-07	STORM SEWER CONNECTION TO EXISTING SEWER
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
BE-300	LIGHT POLE FOUNDATION 30' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

FILE NAME = 5102.810-DT.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES 71ST STREET ROADWAY IMPROVEMENTS				SCALE N.A.	SHEET NO. OF SHEETS	STA. TO STA.	FAIL/FAP. RTES. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 2	
	PLOT SCALE = 1" = .17'	DRAWN - ZCW	REVISED -														
	PLOT DATE = 11/11/2022	CHECKED - MGFC	REVISED -														
		DATE - 2/14/2023	REVISED -														
												CONTRACT # 61J45		ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
						80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	00 21
		20101100	TREE TRUNK PROTECTION	EACH	2	2	
		20101200	TREE ROOT PRUNING	EACH	2	2	
		20200100	EARTH EXCAVATION	CU YD	1,078	1,078	
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	108	108	
		20800150	TRENCH BACKFILL	CU YD	30	30	
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	324	324	
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	817	817	
		25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25	
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	15	15	
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	15	15	
		25100630	EROSION CONTROL BLANKET	SQ YD	817	817	
		28000510	INLET FILTERS	EACH	13	13	
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	17	17	
SP		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	108	108	
SP		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,595	1,595	
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	7,358	7,358	

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

GHA GEVAULT HAMILTON ASSOCIATES, INC. 625 Forest Edge Drive Vernon Hills, IL 60061
 P.O. Box 897459 Chicago, IL 60689

FILE NAME * 5102.810-01.dwg	USER NAME * MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES 71ST STREET ROADWAY IMPROVEMENTS			FALL/FSP RTES 15/17/24	SECTION 16-0003B-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 3
	PLOT SCALE = 1" = .17'	CHECKED - MGFC	REVISED -		SCALE N.A.	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT # 61445		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 11/11/2022	DATE - 2/14/2023	REVISED -									

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
						000 4	0021
		35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	32	32	
		35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	489	489	
		35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	85	85	
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,001	1,001	
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	64	64	
		40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	249	249	
		42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	769	769	
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	7,358	7,358	
		42400800	DETECTABLE WARNINGS	SQ FT	180	180	
		44000100	PAVEMENT REMOVAL	SQ YD	551	551	
		44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1,671	1,671	
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	120	120	
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,279	1,279	
		44000600	SIDEWALK REMOVAL	SQ FT	6,945	6,945	
		44201325	CLASS C PATCHES, TYPE I, 8 INCH	SQ YD	18	18	
		44201329	CLASS C PATCHES, TYPE II, 8 INCH	SQ YD	44	44	

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

625 Forest Bluff Drive
 Vernon Hills, IL 60061
 (847) 431-1500
GHA GEVAULT HAMILTON ASSOCIATES, INC.

FILE NAME = 5102.B10-DT.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES 71ST STREET ROADWAY IMPROVEMENTS			SCALE N.A.	SHEET NO. OF SHEETS	STA. TO STA.	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 4
	PLOT SCALE = 1" = .17'	CHECKED - MGFC	REVISED -					CONTRACT # 61J45						
	PLOT DATE = 11/11/2022	DATE - 2/14/2023	REVISED -					ILLINOIS FED. AID PROJECT						

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
		44201333	CLASS C PATCHES, TYPE III, 8 INCH	SQ YD	75	75	
		44201335	CLASS C PATCHES, TYPE IV, 8 INCH	SQ YD	50	50	
		550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	12	12	
		55100500	STORM SEWER REMOVAL 12"	FOOT	54	54	
		55101200	STORM SEWER REMOVAL 24"	FOOT	10	10	
SP		56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	3	3	
		60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1,096	1,096	
		60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
		60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1	
		60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	5	5	
		60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1	
SP		60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1	1	
		60600605	CONCRETE CURB, TYPE B	FOOT	50	50	
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	921	921	
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	175	175	
		63200310	GUARDRAIL REMOVAL	FOOT	13	13	

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

CHA GEORGE HAMILTON 625 Forest Edge Drive
 Vernon Hills, IL 60061
 ASSOCIATES, INC. P.O. BOX 118185
 CHICAGO, IL 60611

FILE NAME = 5102.610-DT.dwg
 USER NAME = MARK COOB

PLOT SCALE = 1" = .12'
 PLOT DATE = 11/11/2022

DESIGNED - MGFC
 DRAWN - ZCH
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 71ST STREET ROADWAY IMPROVEMENTS
 SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.

FAIR/FAP RATES (537/245)	SECTION 16-0003B-00-CH	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	65	5
		CONTRACT #:	61J45	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	100	
	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	
	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	
	*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5	
		67100100	MOBILIZATION	LSUM	1	1	
		70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1	
		70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	1	
		70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	1	
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1	
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1	
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,971	2,971	
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	990	990	
	*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	161	161	
	*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	805	805	
	*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,269	1,269	

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

GHA GEWALT HAMILTON ASSOCIATES, INC. 625 Forest Park Drive Vernon Hills, IL 60061 Tel: (815) 439-7000 Fax: (815) 439-7001

FILE NAME = 5102.910-DT.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = 12'
 PLOT DATE = 11/11/2022

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 71ST STREET ROADWAY IMPROVEMENTS

SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.

FULL/FAP RTES (537/348)	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 6
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
						80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021
	*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	16	16	
	*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	175	175	
	*	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	182	182	
	*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1,719	1,719	
	*	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	347	347	
	*	78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	267	267	
	*	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	41	41	
	*	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	25	25	
	*	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	963	963	
	*	81028180	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/4" DIA.	FOOT	20	20	
	*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	188	188	
	*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	128	128	
	*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	529	529	
	*	81400100	HANDHOLE	EACH	2	2	
	*	81400200	HEAVY-DUTY HANDHOLE	EACH	2	2	
	*	81400300	DOUBLE HANDHOLE	EACH	2	2	
	*	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	36	36	

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

625 Forest Edge Drive
 Vernon Hills, IL 60061
GHA GEWALT HAMILTON
 ASSOCIATES, INC.

FILE NAME =
5102.810-DT.dwg

USER NAME = MARK COBB

DESIGNED - MGFC

REVISED -

DRAWN - ZCW

REVISED -

PLOT SCALE = 1" = .17'

CHECKED - MGFC

REVISED -

PLOT DATE = 11/11/2022

DATE - 2/14/2023

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
71ST STREET ROADWAY IMPROVEMENTS

SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00038-00-CH	COOK	65	7
CONTRACT #		61445	
ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
						80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021
	*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
	*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1	1	
	*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2,855	2,855	
	*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,497	1,497	
	*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,913	1,913	
	*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,128	1,128	
	*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,151	3,151	
	*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,233	2,233	
	*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	110	110	
	*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	657	657	
	*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4	4	
	*	87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1	1	
	*	87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1	1	
	*	87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1	1	
	*	87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1	1	
	*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20	20	

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

CHA HAMILTON 625 Forest Edge Drive
 Vernon Hills, IL 60061
 ASSOCIATES, INC. P.O. BOX 148929

FILE NAME = 5102.910-DT.cvg	USER NAME = MARK COEB	DESIGNED - MGFC	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES 71ST STREET ROADWAY IMPROVEMENTS			FULL/FAP 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 8
	PLOT SCALE = 1" = .17'	CHECKED - MGFC	REVISIONS -		SCALE N.A.	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT # 61J45				
	PLOT DATE = 11/11/2022	DATE - 2/14/2023	REVISIONS -		(ILLINOIS) FED. AID PROJECT							

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
						80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021
	*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4	
	*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54	54	
	*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	4	
	*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1	
	*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	7	7	
	*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7	7	
	*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	8	
	*	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11	11	
	*	88500100	INDUCTIVE LOOP DETECTOR	EACH	7	7	
	*	88600100	DETECTOR LOOP, TYPE I	FOOT	360	360	
	*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
SP	*	89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1	1	
SP	*	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2		2
SP	*	89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1		1
	*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,739	5,739	
SP	*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1	

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

CHA GEWALT HAMILTON
 ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 847.439.8800

FILE NAME = 5102.810-D7.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES 71ST STREET ROADWAY IMPROVEMENTS	FBI/FAP RTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1" = 17'	DRAWN - ZCW	REVISED -			1537/348	16-00038-00-CH	COOK	65	9
	PLOT DATE = 11/11/2022	CHECKED - MGFC	REVISED -			SCALE N.A.	SHEET NO. OF SHEETS	STA.	TO STA.	CONTRACT # 81J45

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
	*	89502380	REMOVE EXISTING HANDHOLE	EACH	7	7	
SP	*	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1	
	*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	9	
SP		X0300249	REMOVE EXISTING GATE	EACH	1	1	
SP	*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	360		360
SP	*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	2,560	2,560	
SP	*	X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4	4	
SP	*	X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1	1	
SP	*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1	1	
SP	*	X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2	2	
SP	*	X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	858	858	
SP		X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2	
SP		X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	3	3	
SP	*	X8100105	CONDUIT SPLICE	EACH	2	2	
SP	*	X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE	EACH	3	3	
SP	*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1	

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

GHA GEHAUT HAMILTON ASSOCIATES, INC. 625 Forest Edge Drive Vernon Hills, IL 60061

FILE NAME = 5102.810-07.dwg

USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -
PLOT SCALE = 1" = 17'	DRAWN - ZCW	REVISED -
PLOT DATE = 11/11/2022	CHECKED - MGFC	REVISED -
	DATE - 2/14/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
71ST STREET ROADWAY IMPROVEMENTS

SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.

FALL/FEAR RTES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	10
CONTRACT #			61445	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	CONSTRUCTION CODE
						80% FEDERAL / 20% VILLAGE OF BEDFORD PARK	100% VILLAGE OF BEDFORD PARK
SP	*	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021
SP	*	X8710024	FIBER CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,855	2,855	
SP	*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	8	
SP		Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SQ YD	32	32	
SP		Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1	
SP		Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	3	3	
SP		Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	9	9	
SP		Z0022800	FENCE REMOVAL	FOOT	111	111	
SP		Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	128	128	
SP	*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1	1	
SP		Z0051500	REMOVING AND RESETTING STREET SIGNS	EACH	8	8	
SP		Z0056646	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 10"	FOOT	13	13	
SP		Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	35	35	
SP		Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	60	60	
SP	*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1	
SP	**	Z0076600	TRAINEES	HOUR	500		
SP	**	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		

SP - SPECIAL PROVISION * SPECIALTY ITEM ** CONSTRUCTION CODE 0042

GHA GEWALT HAMILTON
 ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 P.O. BOX 1000

FILE NAME =
S102.B10-DT.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .17'
 PLOT DATE = 11/11/2022

DESIGNED -	MGFC	REVISED -	
DRAWN -	ZCW	REVISED -	
CHECKED -	MGFC	REVISED -	
DATE -	2/14/2023	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

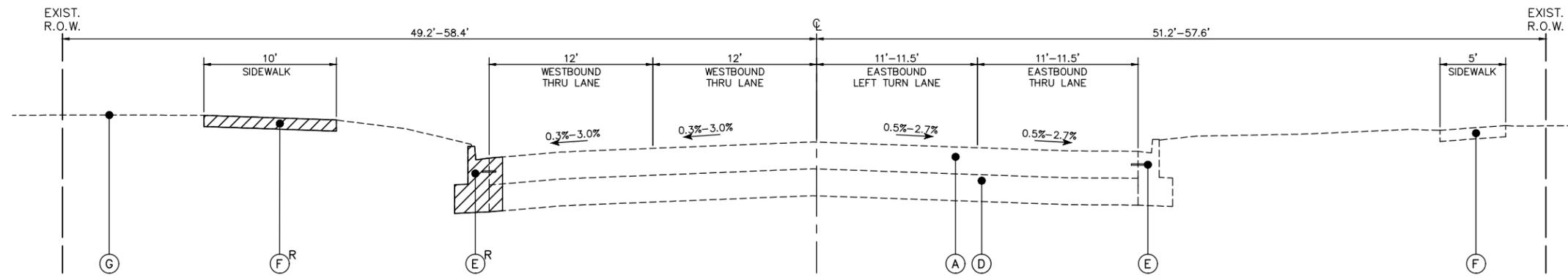
SUMMARY OF QUANTITIES
 71ST STREET ROADWAY IMPROVEMENTS

SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.

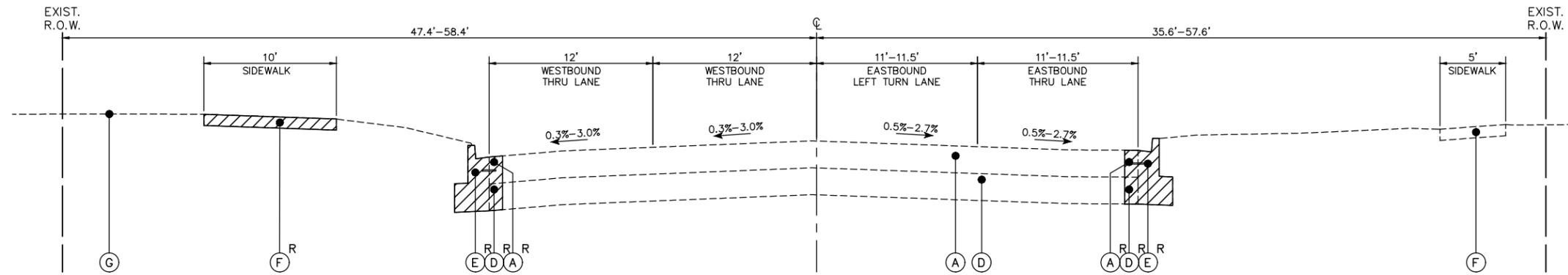
FALL/FAP RTES. 1537/348	SECTION 16-0003B-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 11
CONTRACT #			61445	
ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION LEGEND

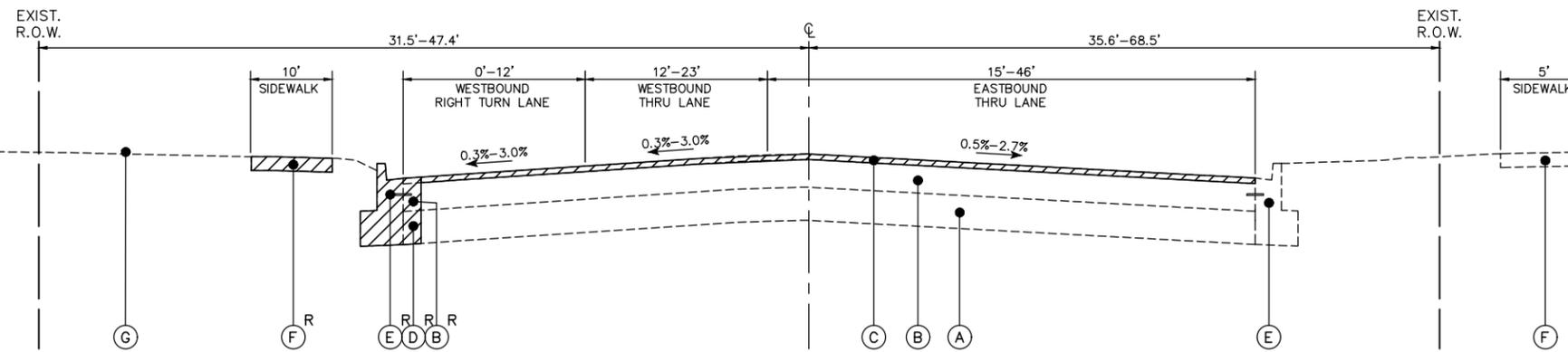
- (A) EXISTING PCC PAVEMENT, ± 10"
- (B) EXISTING PCC BASE COURSE, ± 8"
- (C) EXISTING HMA SURFACE COURSE, ± 2"
- (D) EXISTING AGGREGATE SUBGRADE, ± 12"
- (E) EXISTING CURB AND GUTTER, TYPE B-6.12
- (F) EXISTING PCC SIDEWALK
- (G) EXISTING GROUND
- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, (2")
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- (3) PORTLAND CEMENT CONCRETE BASE COURSE 8" PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"
- (4) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (7) CONCRETE SIDE CURB (PAID FOR AS PCC SIDEWALK PAY ITEM)
- (8) PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
- (9) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (10) NO 6 TIE BAR, DEFORMED (EPOXY COATED) (INCIDENTAL TO ADJACENT WORK)
- (11) 1 1/2" DOWEL BAR (EPOXY COATED) (INCIDENTAL TO ADJACENT WORK)
- (12) TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A NITROGEN FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT
- (13) PIPE UNDERDRAINS, TYPE 2, 4"
- (R) ITEM TO BE REMOVED



71ST STREET
EXISTING TYPICAL SECTION
STA. 12+71 TO 17+55



71ST STREET
EXISTING TYPICAL SECTION
STA. 17+55 TO 19+02



71ST STREET
EXISTING TYPICAL SECTION
STA. 19+02 TO 22+08

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
HOT-MIX ASPHALT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, (2")	4% @ 70 GYR	LR1030-2
PAVEMENT WIDENING		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, (2")	4% @ 70 GYR	LR1030-2
HMA DRIVEWAY PAVEMENT 10"		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, (2")	4% @ 50 GYR	LR1030-2
HMA BASE COURSE (HMA BINDER IL-19 MM), (8")	4% @ 50 GYR	LR1030-2
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR1030-2		

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

625 Forest Edge Drive
 Vernon Hills, IL 60061
 (847) 480-7800
GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 5102.810-Xsect.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/11/2022

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

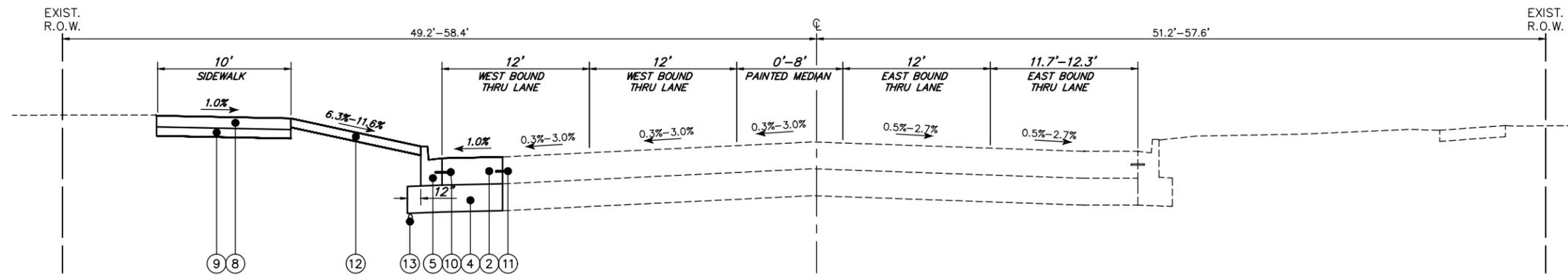
**TYPICAL SECTIONS
 71ST STREET ROADWAY IMPROVEMENTS**

SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.

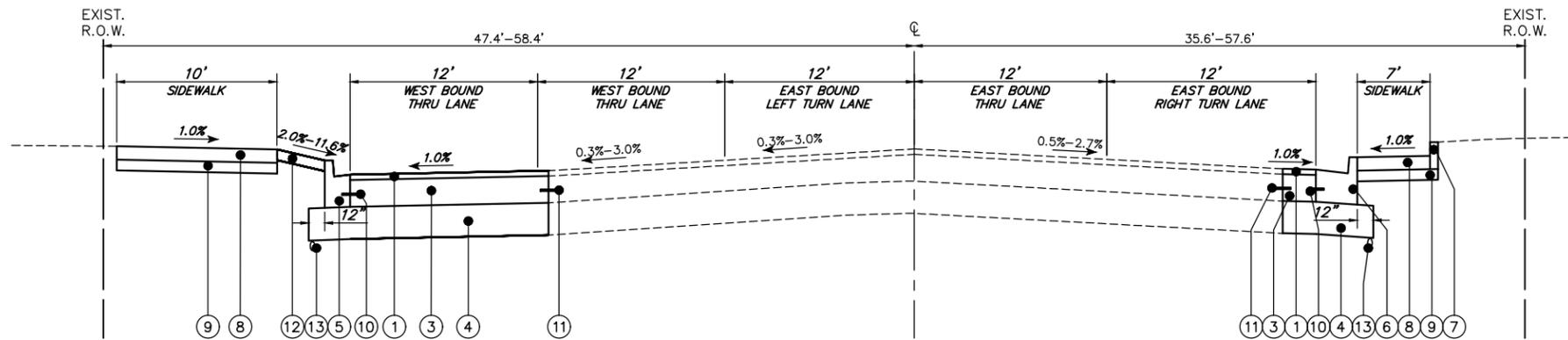
FALL/FAP R/TES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	12
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION LEGEND

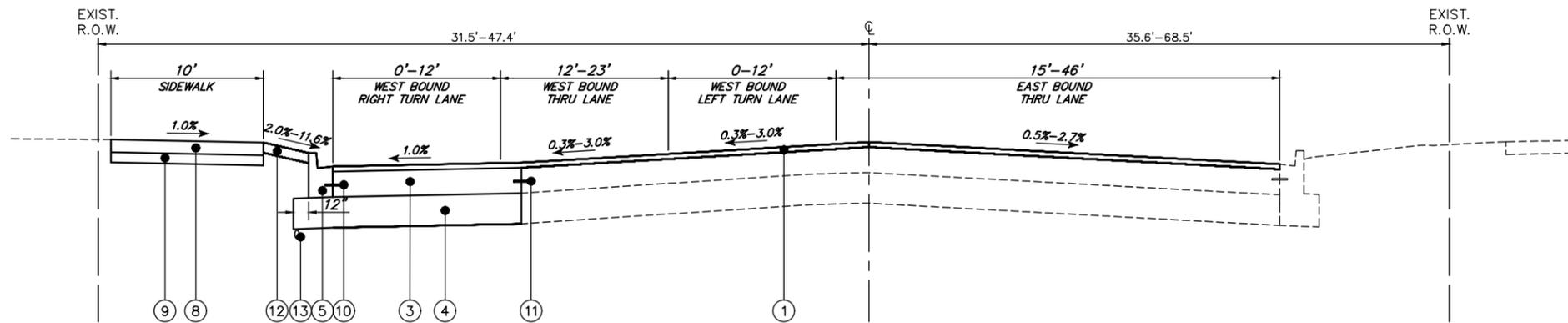
- (A) EXISTING PCC PAVEMENT, ± 10"
- (B) EXISTING PCC BASE COURSE, ± 8"
- (C) EXISTING HMA SURFACE COURSE, ± 2"
- (D) EXISTING AGGREGATE SUBGRADE, ± 12"
- (E) EXISTING CURB AND GUTTER, TYPE B-6.12
- (F) EXISTING PCC SIDEWALK
- (G) EXISTING GROUND
- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, (2")
- (2) PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- (3) PORTLAND CEMENT CONCRETE BASE COURSE 8"
PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"
- (4) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (7) CONCRETE SIDE CURB (PAID FOR AS PCC SIDEWALK PAY ITEM)
- (8) PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
- (9) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (10) NO 6 TIE BAR, DEFORMED (EPOXY COATED)
(INCIDENTAL TO ADJACENT WORK)
- (11) 1 1/2" DOWEL BAR (EPOXY COATED)
(INCIDENTAL TO ADJACENT WORK)
- (12) TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
- (13) PIPE UNDERDRAINS, TYPE 2, 4"
- ^R ITEM TO BE REMOVED



71ST STREET
PROPOSED TYPICAL SECTION
STA. 12+71 TO 17+55



71ST STREET
PROPOSED TYPICAL SECTION
STA. 17+55 TO 19+02



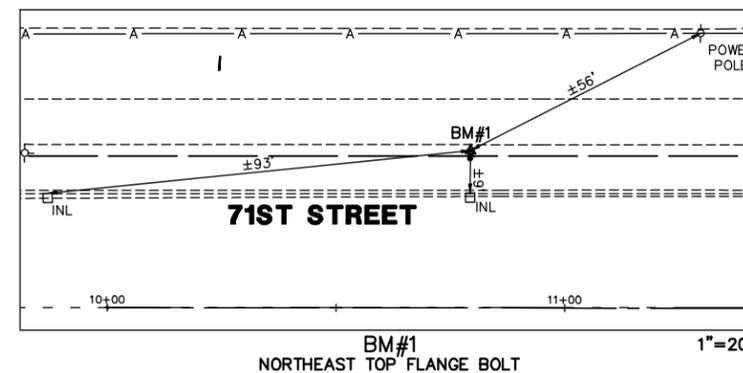
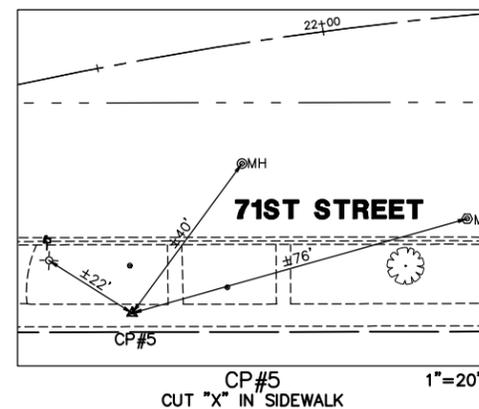
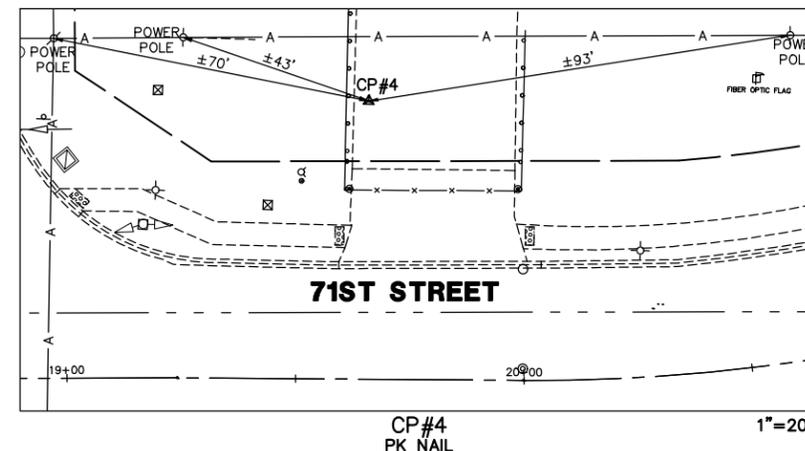
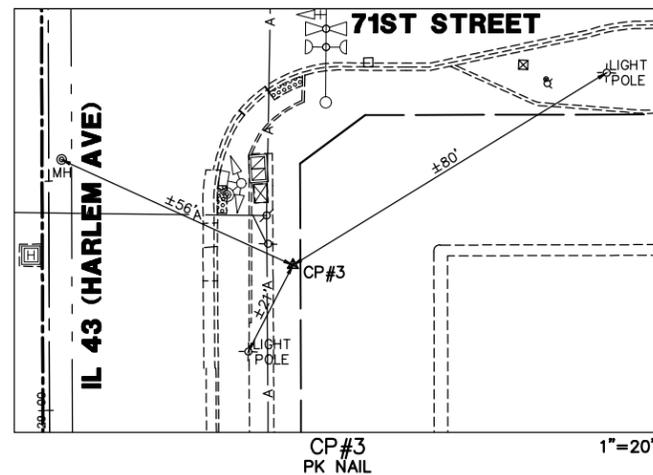
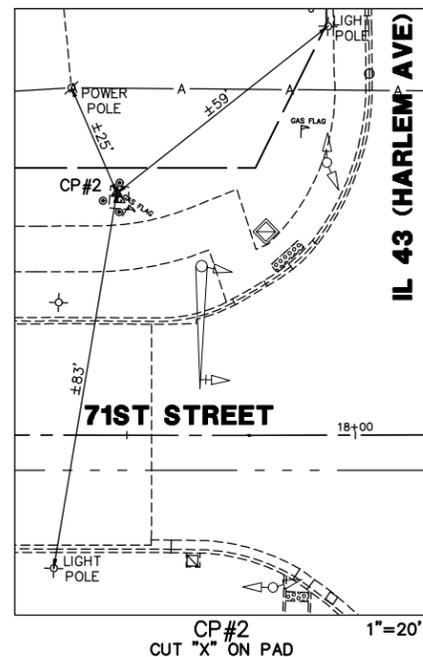
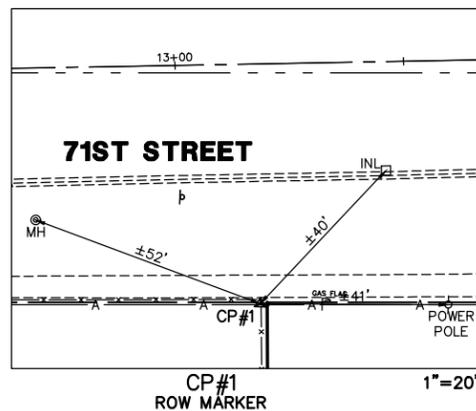
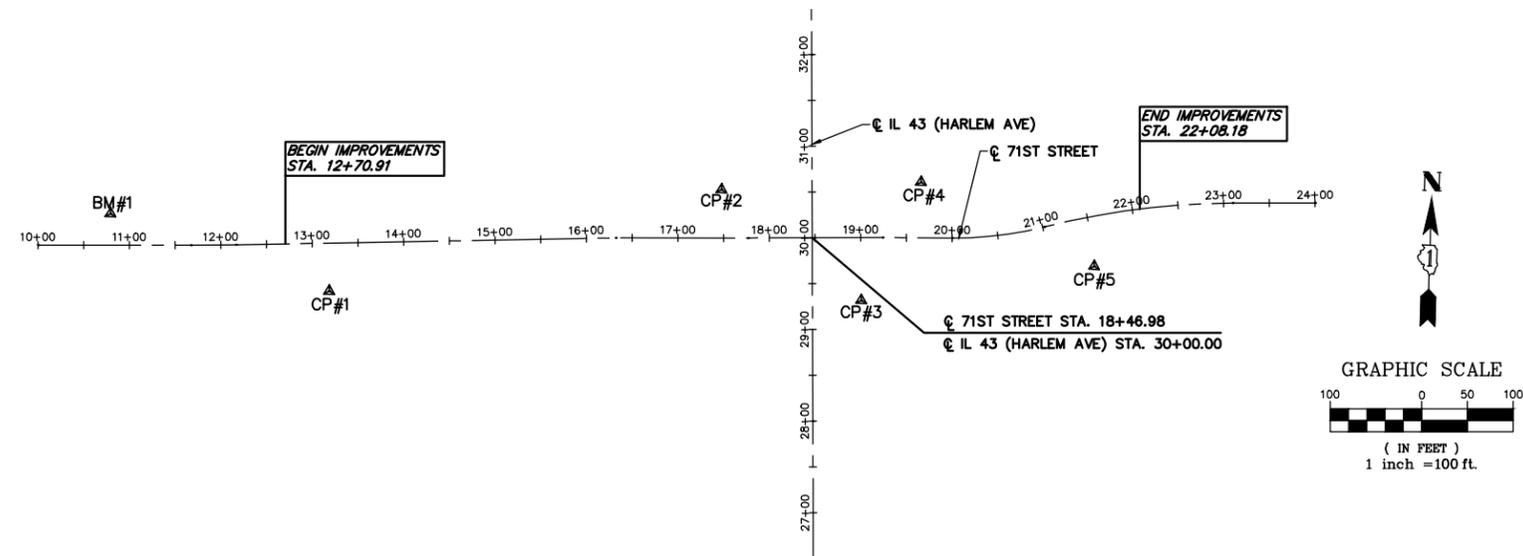
71ST STREET
PROPOSED TYPICAL SECTION
STA. 19+02 TO 22+08

625 Forest Edge Drive
 Vernon Hills, IL 60061
 TEL: 847.480.7800
 FAX: 847.480.7801
GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 5102.810-Xsect.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS 71ST STREET ROADWAY IMPROVEMENTS			SCALE N.A.	SHEET NO. OF SHEETS	STA. TO STA.	TOTAL SHEETS 65	SHEET NO. 13
		DRAWN - ZCW	REVISED -									
		CHECKED - MGFC	REVISED -									
		DATE - 2/14/2023	REVISED -									
								CONTRACT # 61J45		ILLINOIS FED. AID PROJECT		

71ST AVENUE ALIGNMENT COORDINATE TABLE			
Description	Station	Northing	Easting
P0B	10+00.00	1856532.58	1128831.19
PI	11+67.42	1856537.81	1128998.53
PI	12+16.64	1856539.67	1129047.71
PI	16+32.17	1856560.52	1129462.72
PI	17+76.72	1856565.02	1129607.20
PI	19+24.12	1856570.19	1129754.50
PC	19+99.90	1856572.06	1129830.26
RCC	21+01.85	1856587.46	1129930.76
PT	23+10.04	1856619.94	1130135.87
POT	24+00.00	1856623.05	1130225.78

IL 43 (HARLEM AVE) ALIGNMENT COORDINATE TABLE			
Description	Station	Northing	Easting
PI	28+00.00	1856367.61	1129684.47
PI	30+00.00	1856567.48	1129677.42
POT	32+00.00	1856767.36	1129670.36



BENCHMARK:
 SITE BENCHMARK: (BM#1)
 NORTHEAST TOP FLANGE BOLT OF HYDRANT 34 FT WEST OF
 CENTERLINE OF 71ST AVE
 DATUM: NAVD 88
 ELEVATION: 617.62

CONTROL DISCLAIMER

PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL CONTROL POINTS AT THE JOB SITE, IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE SURVEYOR PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE, IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONTROL POINTS AND/OR BENCHMARKS.

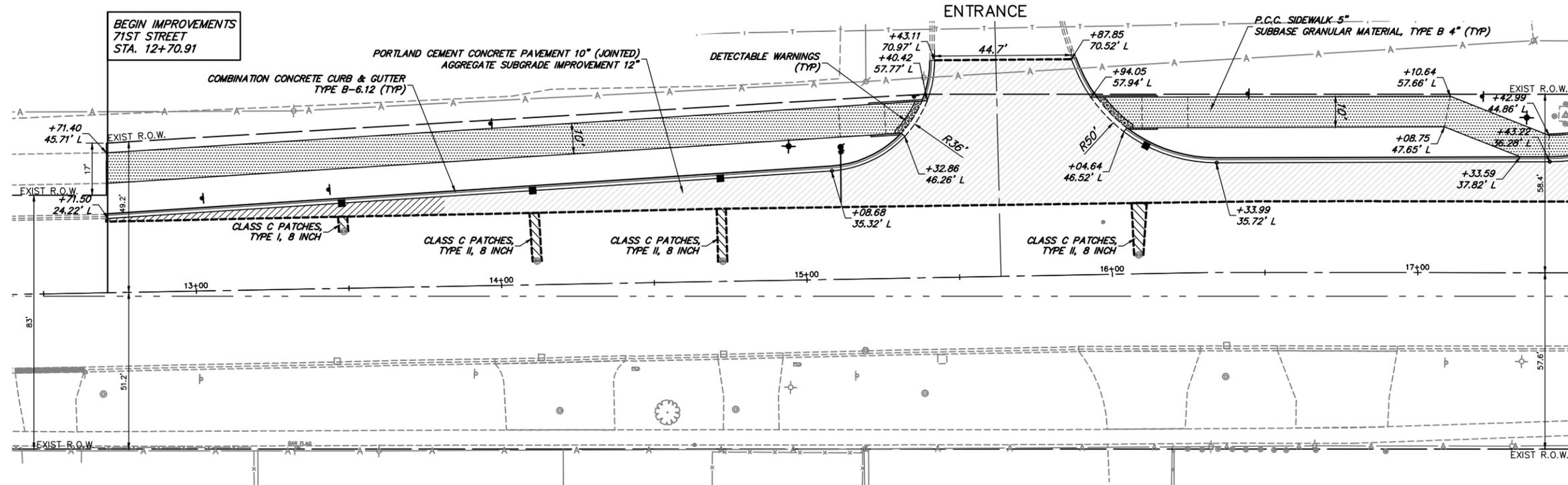
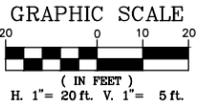
ANY USER OF THIS CONTROL/BENCHMARKS HEREBY AGREES TO WAIVE ANY CLAIM AGAINST GEWALT HAMILTON ASSOCIATES, INC. (GHA) ARISING FROM ANY UNAUTHORIZED REUSE OR MODIFICATIONS OF THIS CONTROL/BENCHMARKS.

BY USING THIS DRAWING, YOU AGREE, IN ADDITION TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD GHA HARMLESS FROM ANY DAMAGE, LIABILITY OR COST, INCLUDING REASONABLE ATTORNEY'S FEES AND COST OF DEFENSE, ARISING FROM ANY REUSE OR MODIFICATION OF THE CONTROL/BENCHMARKS BY YOURSELVES OR ANY PERSON OR ENTITY WHICH ACQUIRES OR OBTAINS THE DRAWINGS FROM OR THROUGH YOUR OFFICE WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF GHA. GHA MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, OF THE MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL GHA BE LIABLE FOR ANY LOSS OF PROFIT OR ANY DAMAGES AS A RESULT OF USING THIS DRAWING.

CONTROL POINT TABLE			
	NORTHING	EASTING	ELEVATION
BM#1	1856569.38	1128909.47	617.62
CP#1	1856492.53	1129151.25	617.94
CP#2	1856616.90	1129576.67	616.50
CP#3	1856500.92	1129733.15	616.56
CP#4	1856631.88	1129794.46	616.23
CP#5	1856546.32	1129986.66	616.35

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 FAX: (847) 480-7800

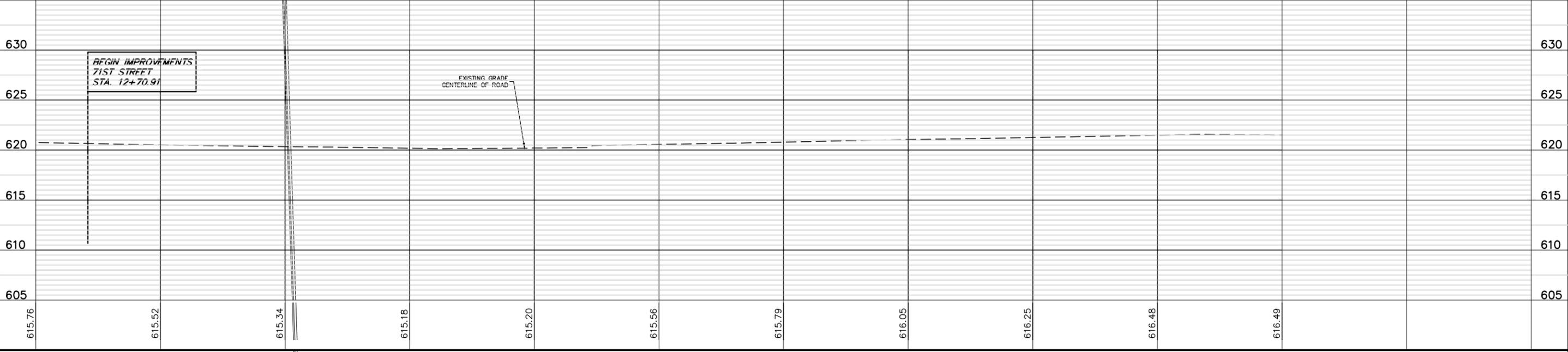
FILE NAME = 5102.810-ATB.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES, AND BENCHMARK 71ST STREET ROADWAY IMPROVEMENTS			FALL/FAP R/TES: 1537/348	SECTION: 16-00038-00-CH	COUNTY: COOK	TOTAL SHEETS: 65	SHEET NO.: 14
	PLOT SCALE = 1" = .1667'	DRAWN - ZCW	REVISED -		SCALE AS NOTED	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT #: 61J45		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 11/12/2022	CHECKED - MGFC	REVISED -									
		DATE - 2/14/2023	REVISED -									



PROPOSED LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 (2")
- PAVEMENT WIDENING (SEE TYPICAL SECTIONS) AGGREGATE SUBGRADE IMPROVEMENT 12"
- PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED) AGGREGATE SUBGRADE IMPROVEMENT 12"
- HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10" AGGREGATE BASE COURSE, TYPE B 4"
- P.C.C. SIDEWALK 5" SUBBASE GRANULAR MATERIAL, TYPE B 4"
- CLASS C PATCHES, 8 INCH
- DETECTABLE WARNINGS
- COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (DEPRESSED)
- REMOVING AND RESETTING STREET SIGNS
- RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE

71ST STREET



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FILE NAME = 5102.810-Xsect.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
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 REVISED -

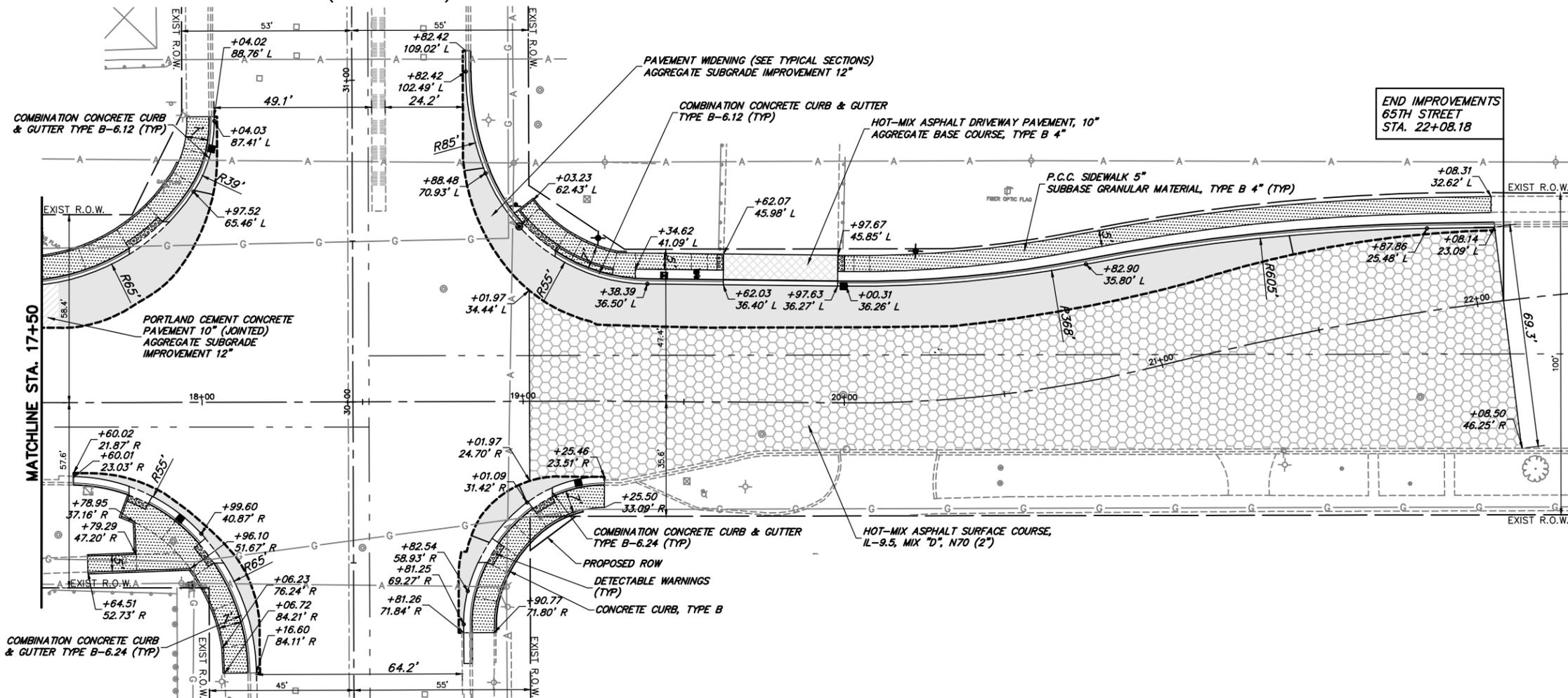
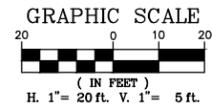
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
 71ST STREET ROADWAY IMPROVEMENTS**

SCALE: H:1"=20'; V:1"=5' SHEET NO. OF SHEETS STA. TO STA.

FALL/EAR. RTES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	16
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				

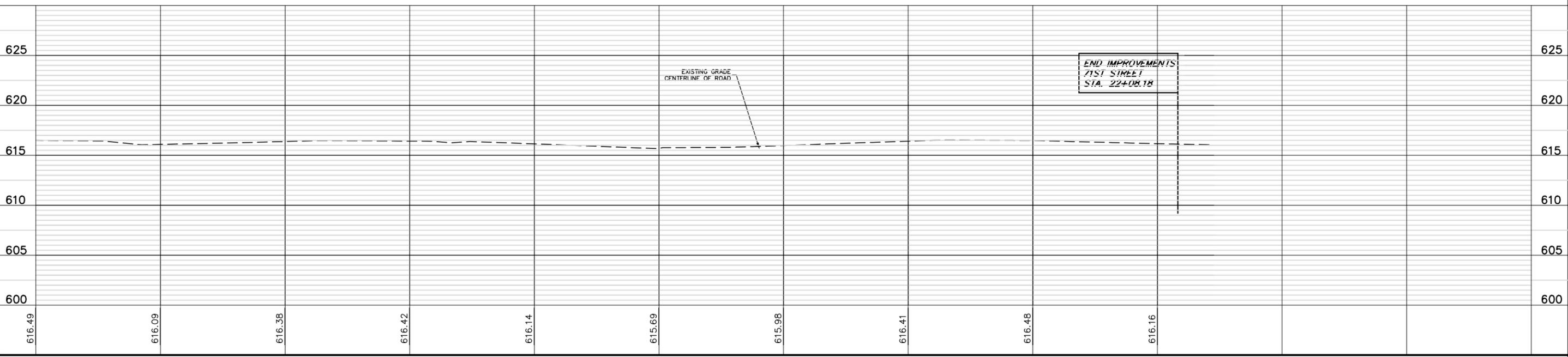
IL 43 (HARLEM AVE)



PROPOSED LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 (2")
- PAVEMENT WIDENING (SEE TYPICAL SECTIONS) AGGREGATE SUBGRADE IMPROVEMENT 12"
- PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED) AGGREGATE SUBGRADE IMPROVEMENT 12"
- HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10" AGGREGATE BASE COURSE, TYPE B 4"
- P.C.C. SIDEWALK 5" SUBBASE GRANULAR MATERIAL, TYPE B 4"
- CLASS C PATCHES, 8 INCH
- DETECTABLE WARNINGS
- COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (DEPRESSED)
- REMOVING AND RESETTING STREET SIGNS
- RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE

71ST STREET

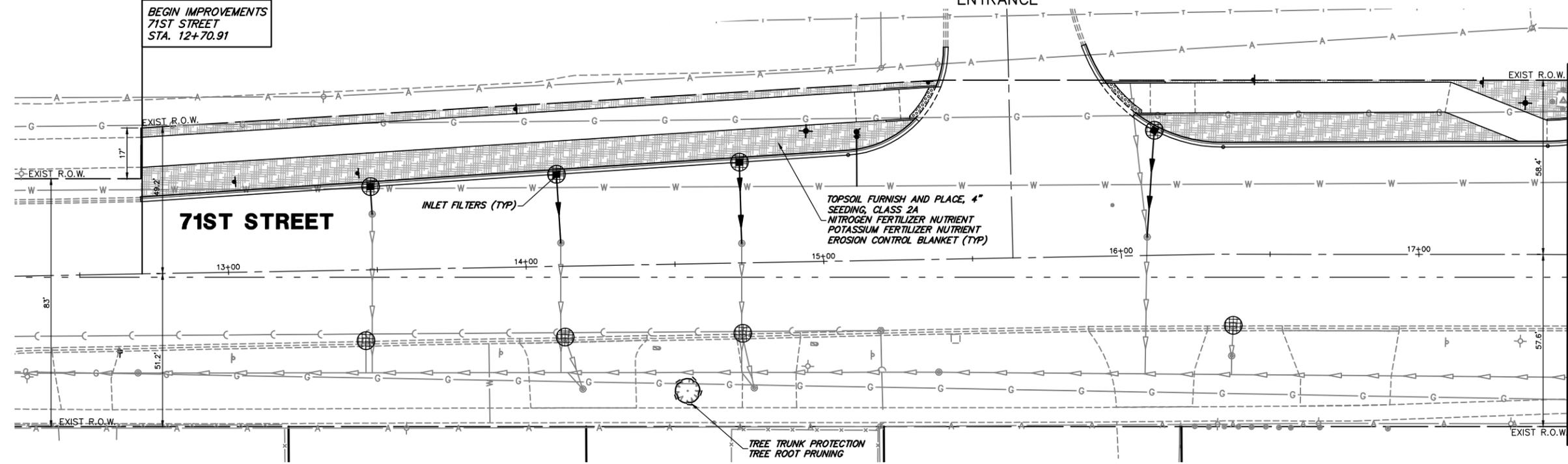
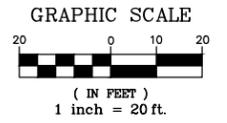


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FILE NAME = 5102.810-Xsect.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	DRAWN - ZCW	CHECKED - MGFC	DATE - 2/14/2023	REVISED -	REVISED -	REVISED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE 71ST STREET ROADWAY IMPROVEMENTS	SCALE: H:1"=20'; V:1"=5'	SHEET NO. OF SHEETS	STA. TO STA.	TOTAL SHEETS 65	SHEET NO. 17	CONTRACT # 61J45	ILLINOIS FED. AID PROJECT
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BEGIN IMPROVEMENTS
71ST STREET
STA. 12+70.91

ENTRANCE



71ST STREET

INLET FILTERS (TYP)

TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET (TYP)

TREE TRUNK PROTECTION
TREE ROOT PRUNING

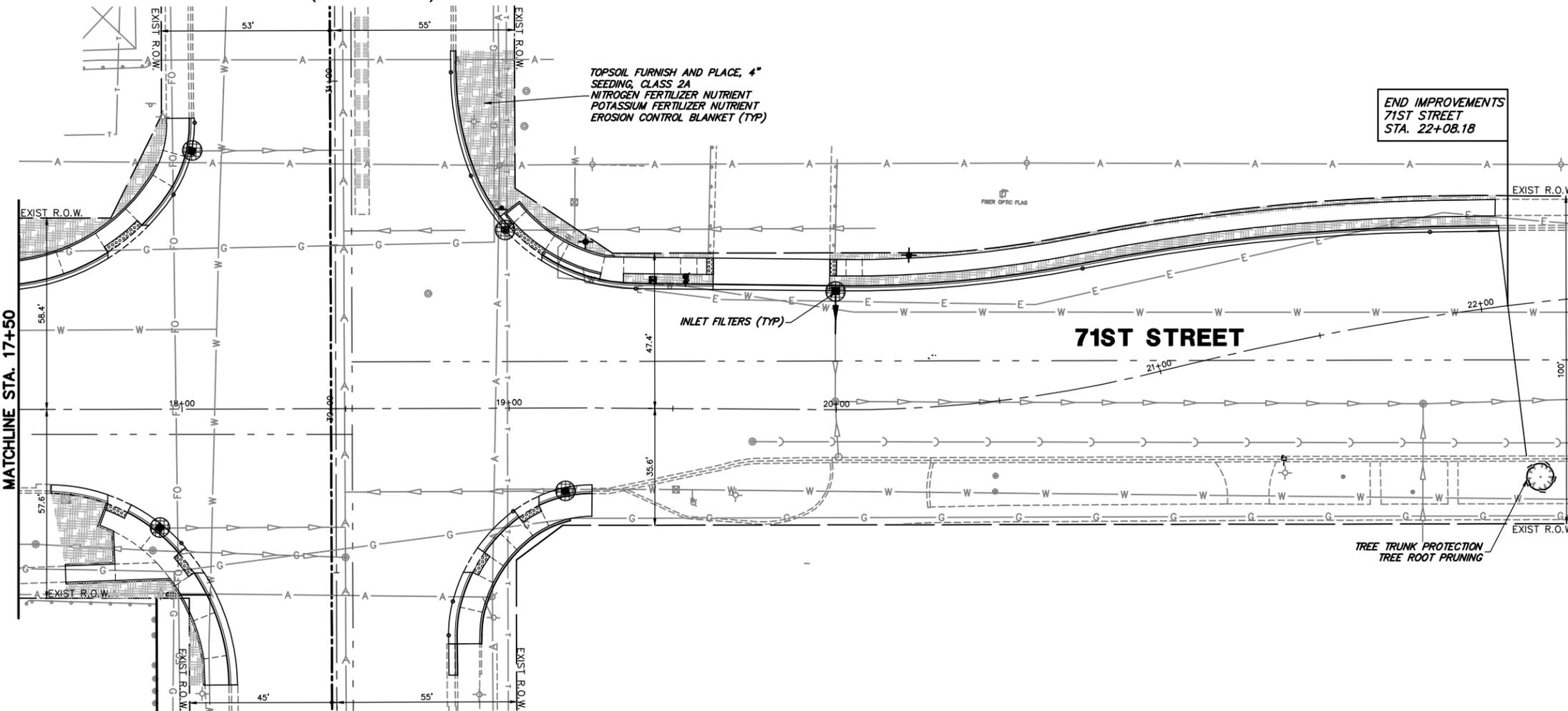
MATCHLINE STA. 17+50

IL 43 (HARLEM AVE)

END IMPROVEMENTS
71ST STREET
STA. 22+08.18

EROSION LEGEND

- TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET
- INLET FILTERS
- TREE TRUNK PROTECTION
TREE ROOT PRUNING



71ST STREET

INLET FILTERS (TYP)

TREE TRUNK PROTECTION
TREE ROOT PRUNING

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FILE NAME = 5102.810-GE0.dwg

USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -
PLOT SCALE = 1" = .1667'	DRAWN - ZCW	REVISED -
PLOT DATE = 11/12/2022	CHECKED - MGFC	REVISED -
	DATE - 2/14/2023	REVISED -

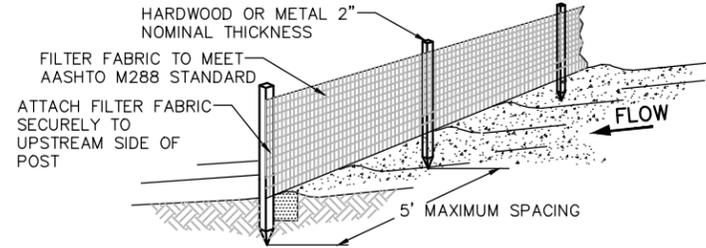
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL EROSION AND SEDIMENT CONTROL PLAN
71ST STREET ROADWAY IMPROVEMENTS**

SCALE N.A.	SHEET NO. OF SHEETS	STA. TO STA.	FALL/FAP. RTES. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 18
						CONTRACT # 61J45	
ILLINOIS FED. AID PROJECT							

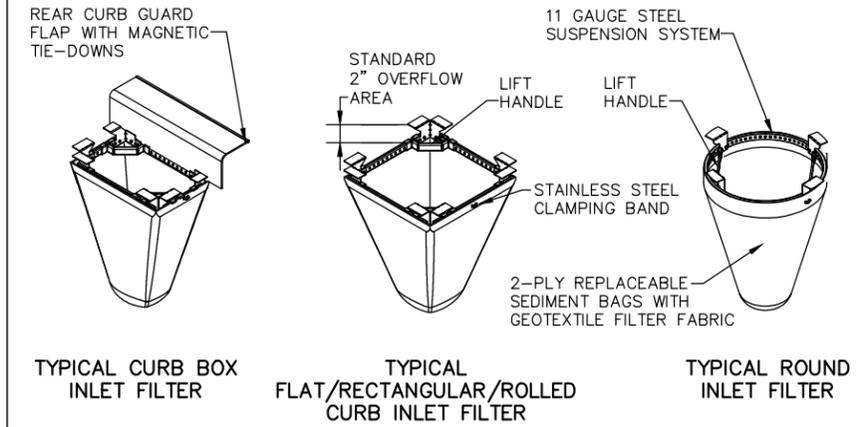
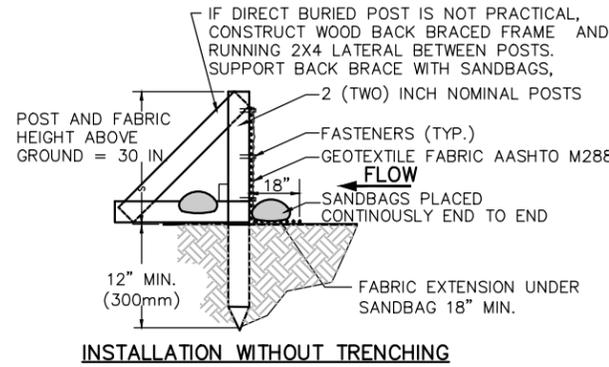
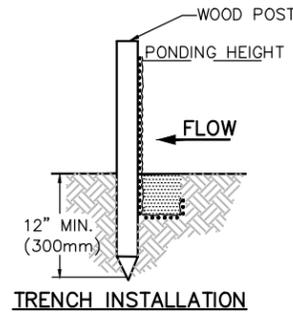
NOTES:

- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- FABRIC AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ASSHTO STANDARD SPECIFICATION M-288-00.
- SLICING METHOD IS PREFERRED.



PROPERTY	TEST PROCEDURE	
Grab Elongation		
Machine Direction	ASTM D-4533	123 lbs
X-Machine Direction	ASTM D-4833	101 lbs
Permittivity	ASTM D-4491	0.05 sec ⁻¹
A.S.O.	ASTM D-4751	30 u.s. Sieve
UV Stability	ASTM D-4355	70%

- SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF THE POST
- ATTACH AASHTO GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3(THREE) FASTENERS PER POST AND EXTEND TO THE BOTTOM OF THE TRENCH. ACCEPTABLE FASTENERS INCLUDE STAPLES, ZIP-TIES, OR WIRE TIES.
- BACKFILL AND COMPACT THE EXCAVATED SPOIL MATERIALS



Material Property	Test Method	Value (min. ave.)	
> Inner Filter Bag Specs (2ft ² min vol)		Non-Woven	Woven Mono
Grab Tensile	ASTM D 4632	100 lbs	200 lbs
Puncture Strength	ASTM D 4833	65 lbs	90 lbs
Trapezoidal Tear	ASTM D 4535	45 lbs	75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs	90%
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0/sec.	2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft.	145gpm/sqft
> Polyester Outer Reinforcement Bag Specifications			
Weight	ASTM D 3776	4.55 oz/sqyd +/-15%	
Thickness	ASTM D 1777	.040 +/- .005	
> Frame Construction			
A36 Structural Steel;	ASTM A 576	Tensile Strength > 58,000 psi	
11 Gauge, Zinc Plated		Yield Strength > 36,000 psi	

MAINTENANCE
1. CLEAN OUT AFTER EVERY RAIN EVENT

03.15.2016

03.15.2016



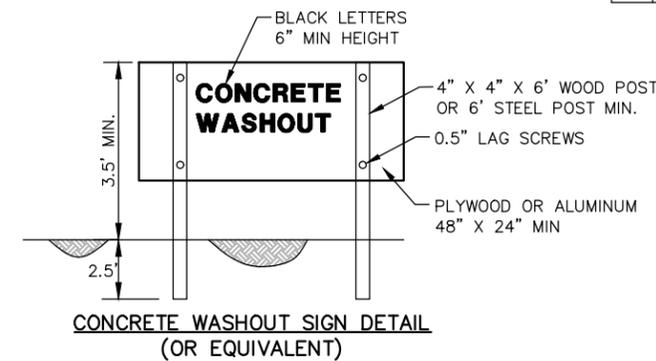
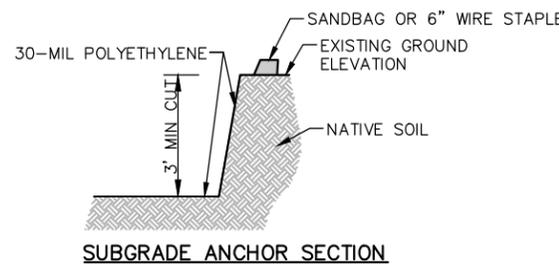
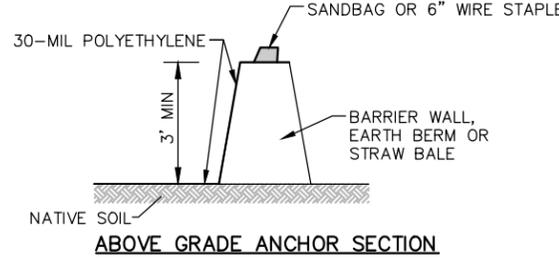
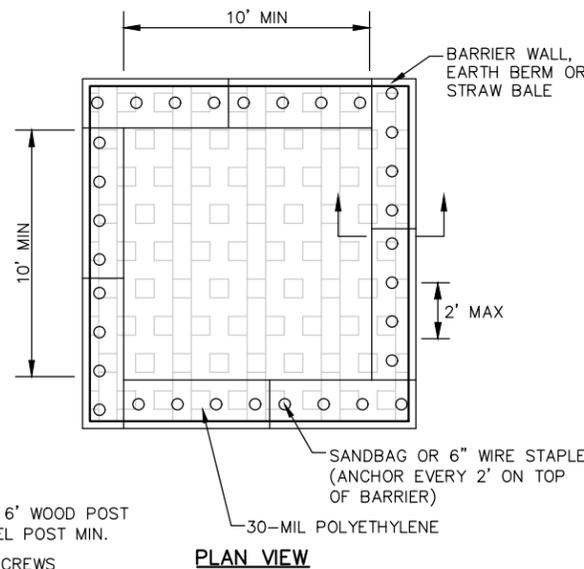
SILT FENCE INSTALLATION DETAIL



INLET FILTER BASKET DETAIL

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- CONCRETE WASHOUT SHOULD NOT BE ALLOWED IN STREET OR TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE.
- CONCRETE WASHOUT AREA TO BE LOCATED AT LEAST 10' BEHIND CURB IF ADJACENT TO A PAVED ROAD.
- IF USING STRAW BALES, STAKE IN PLACE USING (2) 2"x2"x4' WOODEN STAKES.
- STRAW BALES SHALL BE TRENCHED IN 3".
- CONCRETE WASHOUT DUMPSTER MAY BE USED IN LIEU OF CONSTRUCTION ONE AS DETAILED.



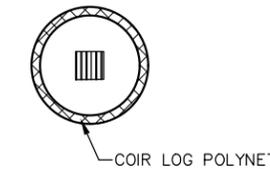
- MAINTENANCE:
- DRIED CONCRETE WASTE SHALL BE PICKED UP AND DISPOSED OF PROPERLY WHEN 75% OF CAPACITY IS REACHED.
 - HARDENED CONCRETE CAN BE PROPERLY RECYCLED AND REUSED ONSITE OR HAULED OFF-SITE TO AN APPROPRIATE FACILITY.

03.15.2016

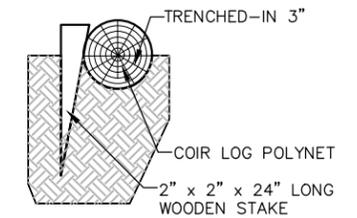
NOTES:

- DO NOT SCALE DRAWING.
- REFER TO MANUFACTURER'S PRODUCT SPECIFICATIONS TO ENSURE QUALITY OF THE PRODUCTS

PLAN VIEW



SECTION VIEW



DROP INLET OR MANHOLE
INLET PROTECTION FOR DROP INLETS OR MANHOLES

* USE 9LB DENSITY 12" DIAMETER, 20' LONG COIR LOG POLYNET FOR STANDARD CIRCULAR DRAINAGE STRUCTURES. PLACE THE COIR LOG AROUND THE STRUCTURE AND JOIN THE ENDS TOGETHER WITH COIR TWINE. USE 2"x2"x24" WOODEN STAKES SPACED 3' APART TO HOLD DOWN LOG POLYNET.

- MAINTENANCE
- CLEAN OUT SEDIMENT BEHIND LOG WHEN 1/2 FULL
 - RESECURE LOOSE LOGS
 - REPLACE LOGS AS NEEDED
 - REMOVE WHEN NOT NEEDED

03.15.2016

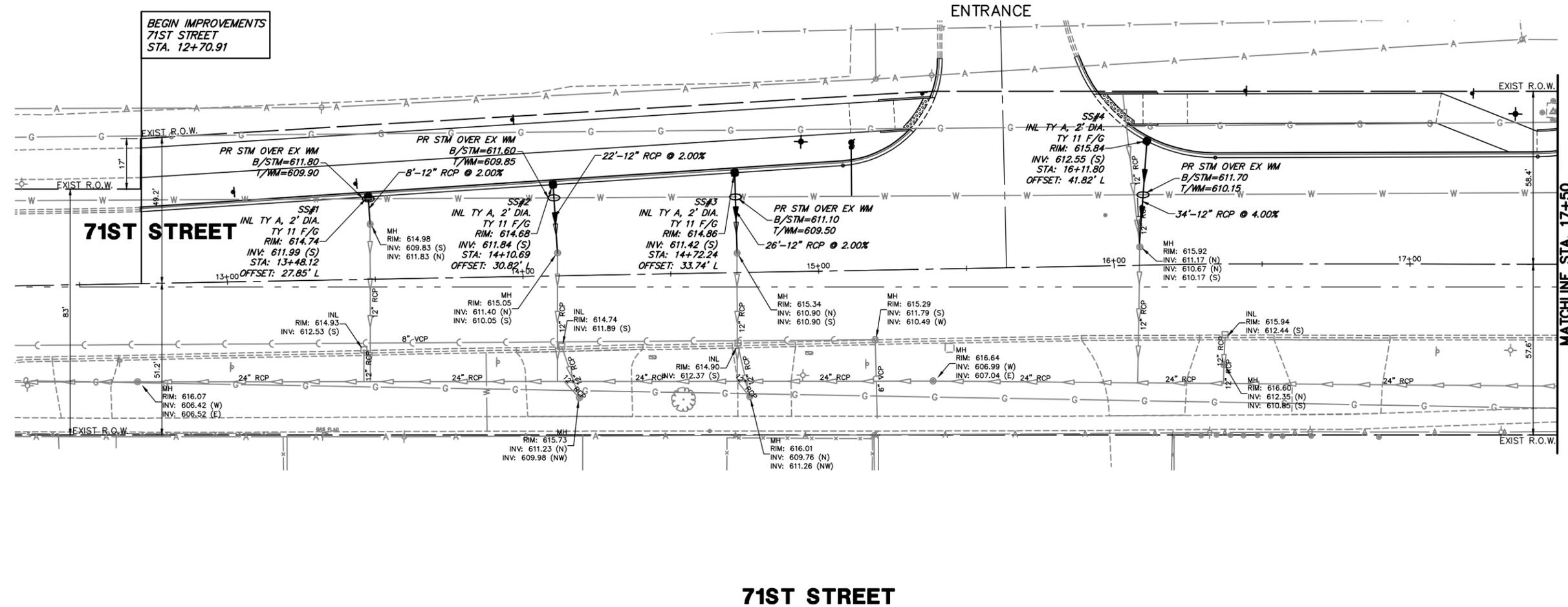


CONCRETE WASHOUT

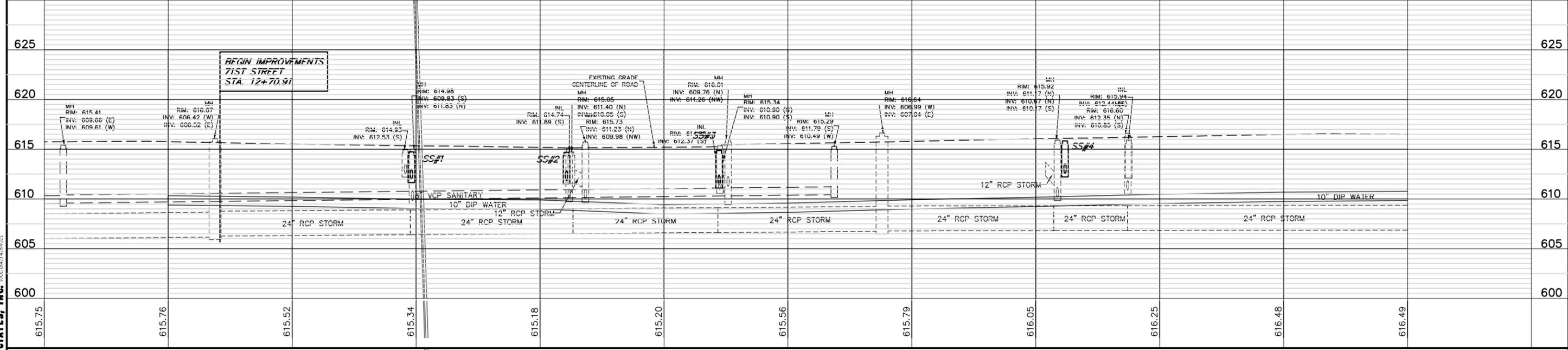


COIR ROLL DETAIL
INLET PROTECTION

FILE NAME = 5102.810-DT.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS 71ST STREET ROADWAY IMPROVEMENTS	SCALE N.A.	SHEET NO. OF SHEETS	STA. TO STA.	FAI/FAP RITES: 1537/348	SECTION: 16-00038-00-CH	COUNTY: COOK	TOTAL SHEETS: 65	SHEET NO.: 19
PLOT SCALE = 1" = .17'	CHECKED - MGFC	REVISOR -				CONTRACT #: 61J45							
PLOT DATE = 11/11/2022	DATE - 2/14/2023	REVISOR -				ILLINOIS FED. AID PROJECT							

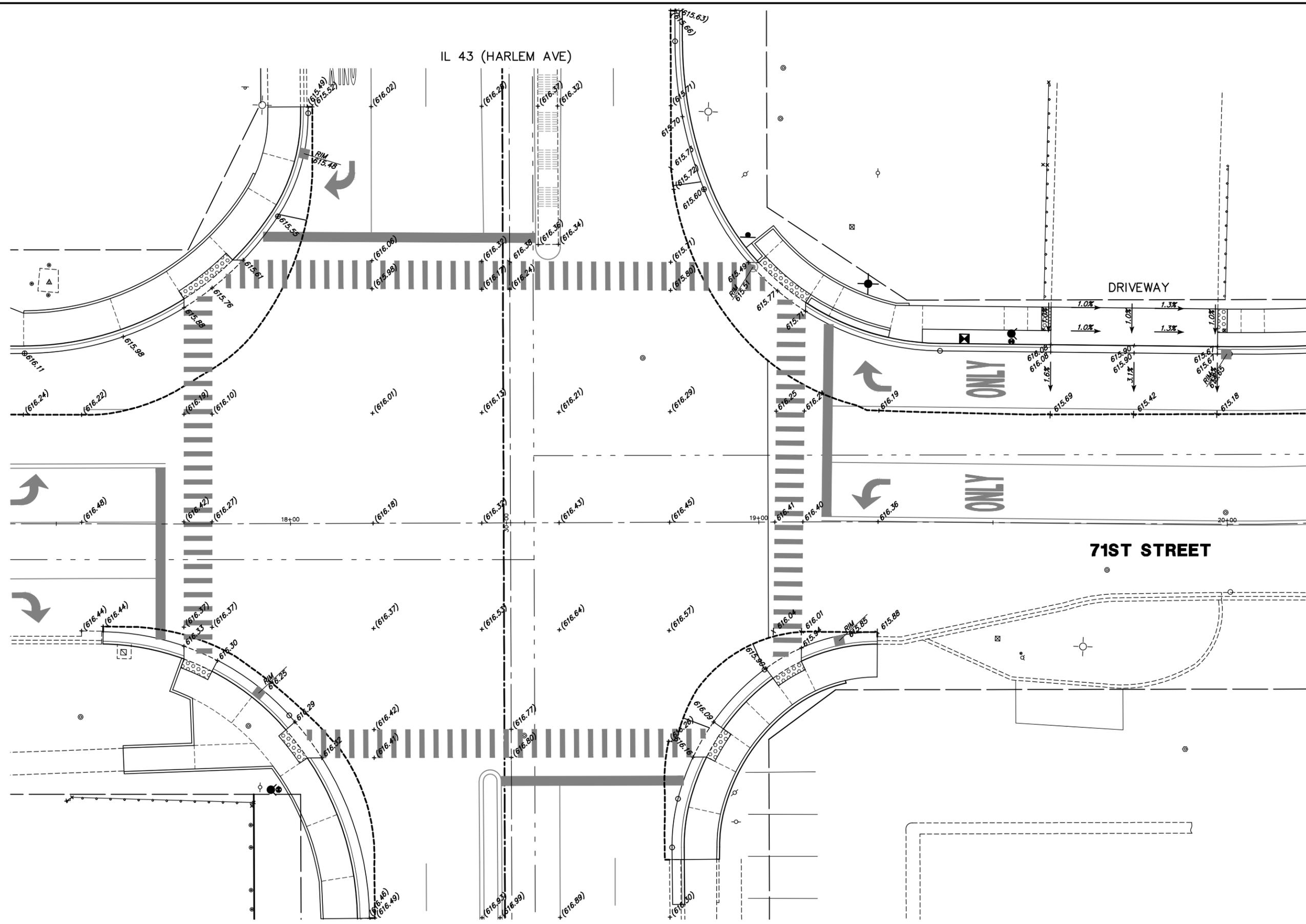
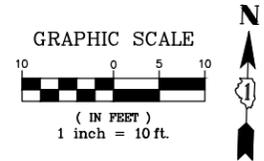


71ST STREET



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 FAX: 847.480.7801

FILE NAME = 5102.810-Xsect.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN 71ST STREET ROADWAY IMPROVEMENTS	FALL/FAP. RTES. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 20	
PLOT SCALE = 1" = .1667'	CHECKED - MGFC	REVISED -	SCALE H:1"=20'; V:1"=5'			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT # 61J45		ILLINOIS FED. AID PROJECT	
PLOT DATE = 11/12/2022	DATE - 2/14/2023	REVISED -									



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 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX: 847-782-7000
 FAX: 847-782-7001

FILE NAME = 5102.810-ADA.dwg
 USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

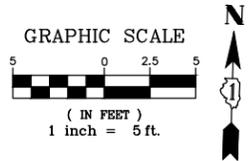
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 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

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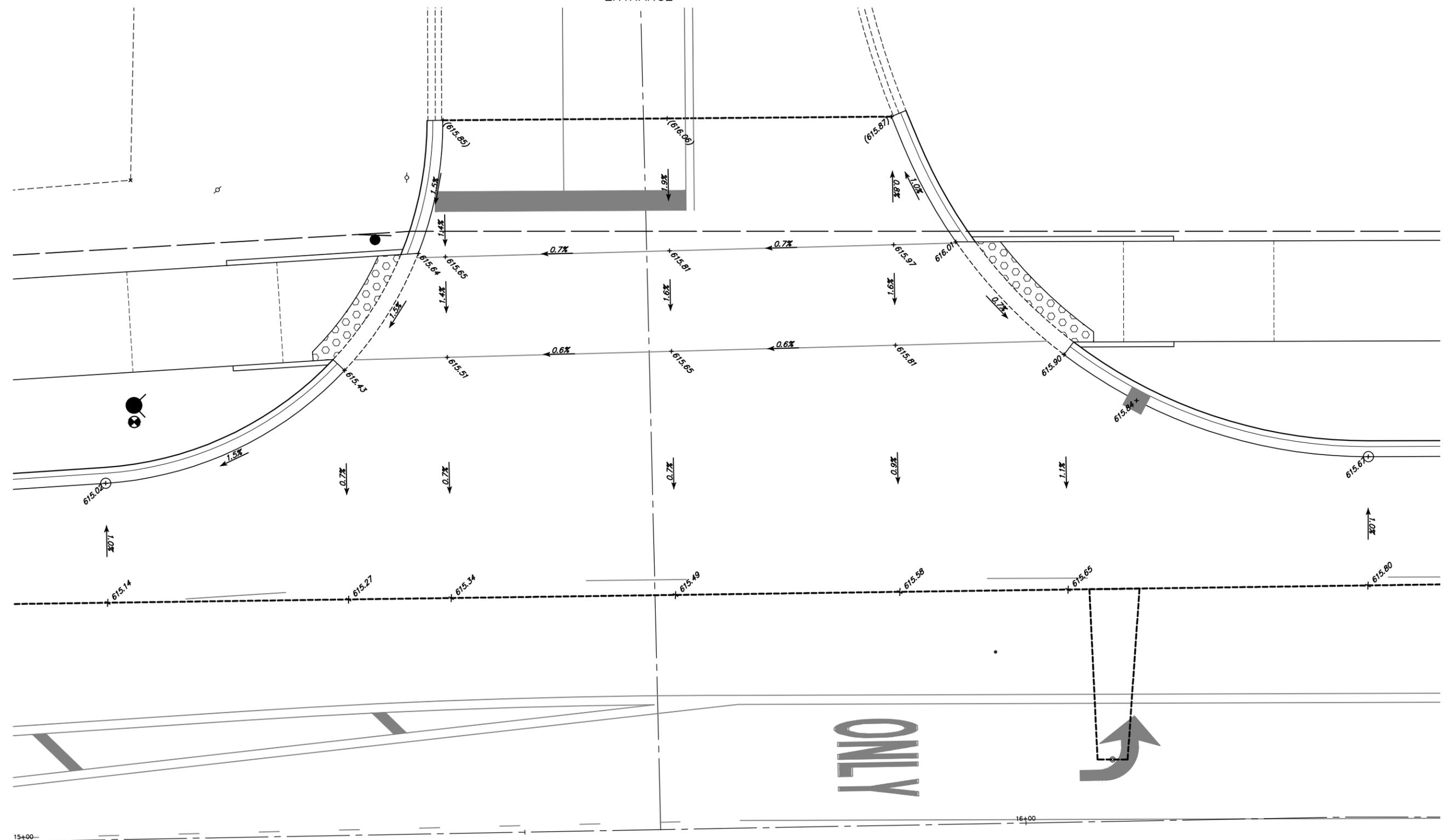
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION GRADING PLAN
 71ST STREET ROADWAY IMPROVEMENTS**
 SCALE 1"=10' SHEET NO. OF SHEETS STA. TO STA.

FALL/FAP. RTES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	22
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				



ENTRANCE



71ST STREET

TRUCK ONLY

GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PH: 847.782.0700
 FAX: 847.782.0701

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USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

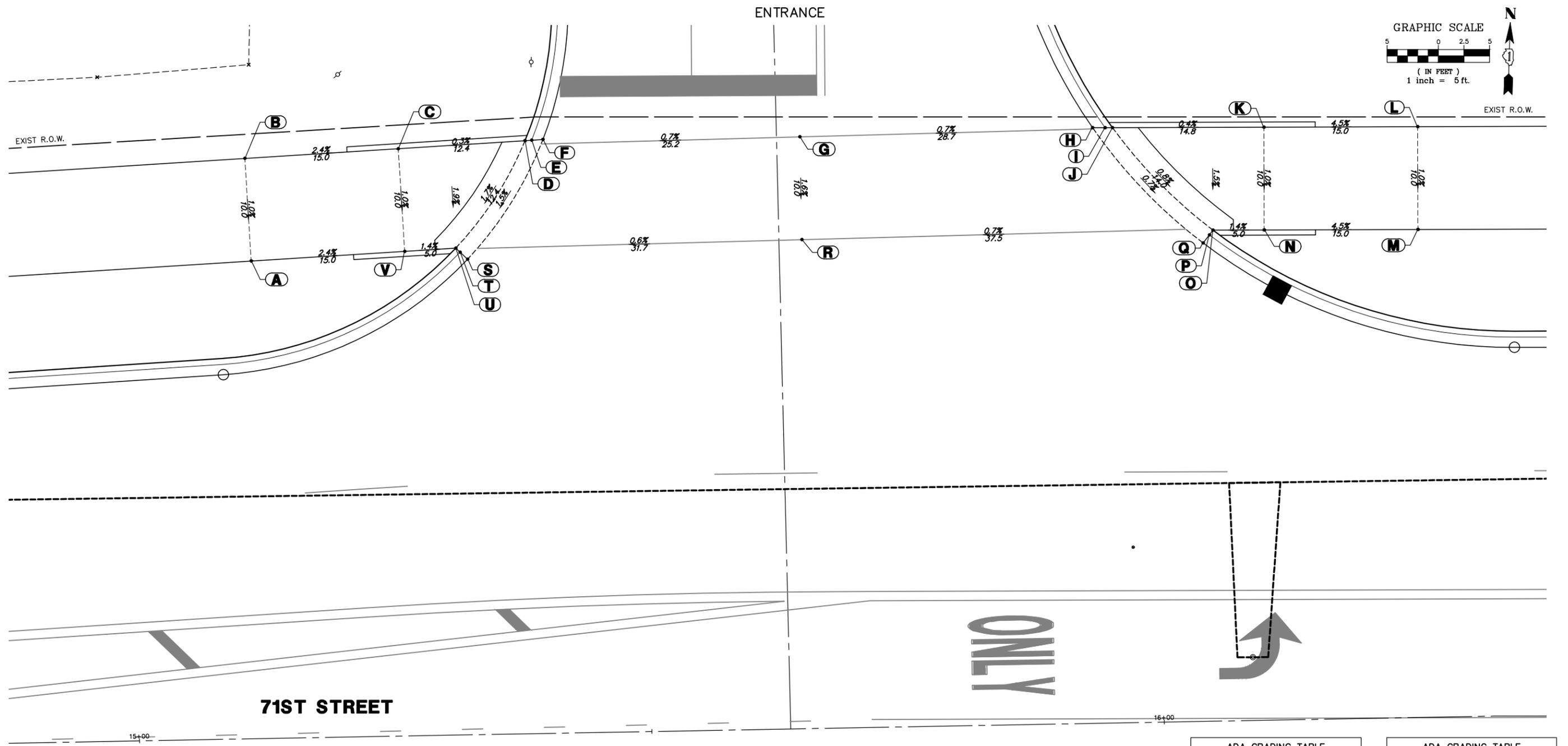
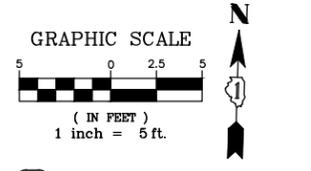
DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERSECTION GRADING PLAN
 71ST STREET ROADWAY IMPROVEMENTS
 SCALE 1"=5' SHEET NO. OF SHEETS STA. TO STA.

FALL/FAV. RTES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	23
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				



71ST STREET

ONLY

ADA GRADING TABLE			
	STATION	OFFSET	ELEVATION
A	15+11.7	46.5' L	615.85
B	15+11.3	56.5' L	615.95
C	15+26.3	57.1' L	615.59
D	15+38.7	57.7' L	615.63
E	15+39.3	57.7' L	615.59
F	15+40.4	57.8' L	615.64
G	15+65.5	57.6' L	615.81
H	15+94.1	57.9' L	616.01
I	15+95.3	57.9' L	615.96
J	15+96	57.9' L	616.00
K	16+10.8	57.7' L	616.06
L	16+25.8	57.5' L	616.73

ADA GRADING TABLE			
	STATION	OFFSET	ELEVATION
M	16+25.6	47.5' L	616.63
N	16+10.6	47.7' L	615.96
O	16+05.6	47.8' L	615.89
P	16+05.3	47.3' L	615.85
Q	16+04.6	46.5' L	615.90
R	15+65.5	47.6' L	615.65
S	15+32.9	46.3' L	615.43
T	15+32.1	47.0' L	615.38
U	15+31.7	47.4' L	615.42
V	15+26.7	47.1' L	615.49

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 PAX: 847.482.0200

FILE NAME = 5102.810-ADA.dwg

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 PLOT DATE = 11/12/2022

DESIGNED - MGFC
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 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA GRADING PLAN
 71ST STREET ROADWAY IMPROVEMENTS**

SCALE 1"=5' SHEET NO. OF SHEETS STA. TO STA.

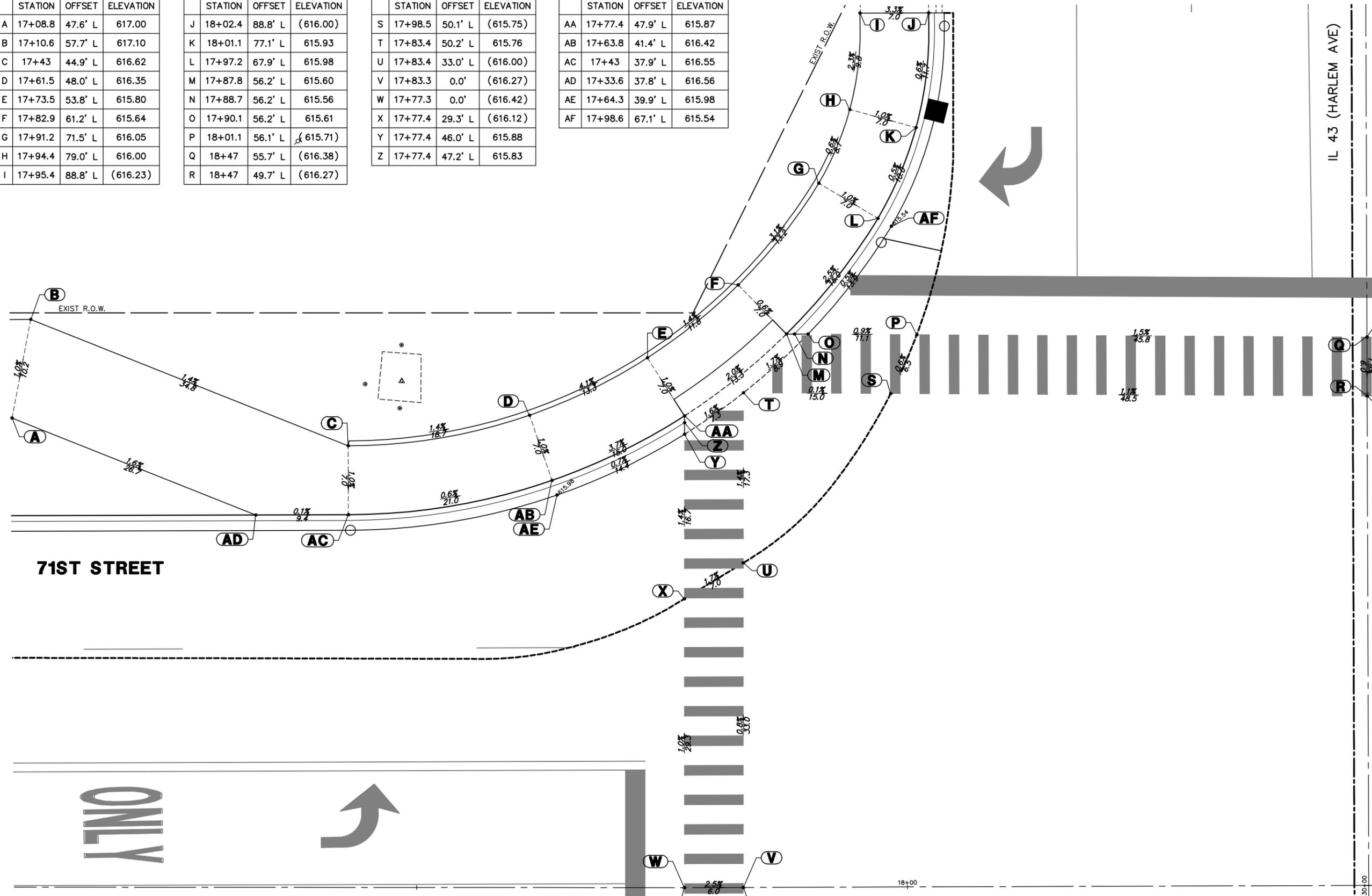
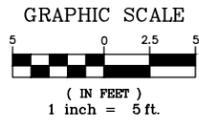
FALL/FAP. RITES. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 24
CONTRACT # 61J45			ILLINOIS FED. AID PROJECT	

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
A	17+08.8	47.6' L	617.00
B	17+10.6	57.7' L	617.10
C	17+43	44.9' L	616.62
D	17+61.5	48.0' L	616.35
E	17+73.5	53.8' L	615.80
F	17+82.9	61.2' L	615.64
G	17+91.2	71.5' L	616.05
H	17+94.4	79.0' L	616.00
I	17+95.4	88.8' L	(616.23)

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
J	18+02.4	88.8' L	(616.00)
K	18+01.1	77.1' L	615.93
L	17+97.2	67.9' L	615.98
M	17+87.8	56.2' L	615.60
N	17+88.7	56.2' L	615.56
O	17+90.1	56.2' L	615.61
P	18+01.1	56.1' L	(615.71)
Q	18+47	55.7' L	(616.38)
R	18+47	49.7' L	(616.27)

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
S	17+98.5	50.1' L	(615.75)
T	17+83.4	50.2' L	615.76
U	17+83.4	33.0' L	(616.00)
V	17+83.3	0.0'	(616.27)
W	17+77.3	0.0'	(616.42)
X	17+77.4	29.3' L	(616.12)
Y	17+77.4	46.0' L	615.88
Z	17+77.4	47.2' L	615.83

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
AA	17+77.4	47.9' L	615.87
AB	17+63.8	41.4' L	616.42
AC	17+43	37.9' L	616.55
AD	17+33.6	37.8' L	616.56
AE	17+64.3	39.9' L	615.98
AF	17+98.6	67.1' L	615.54



NORTHWEST CORNER 71ST STREET AND IL 43 (HARLEM AVE)

GHA GEWALD HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX: (847) 782-0700

FILE NAME = 5102.810-ADA.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

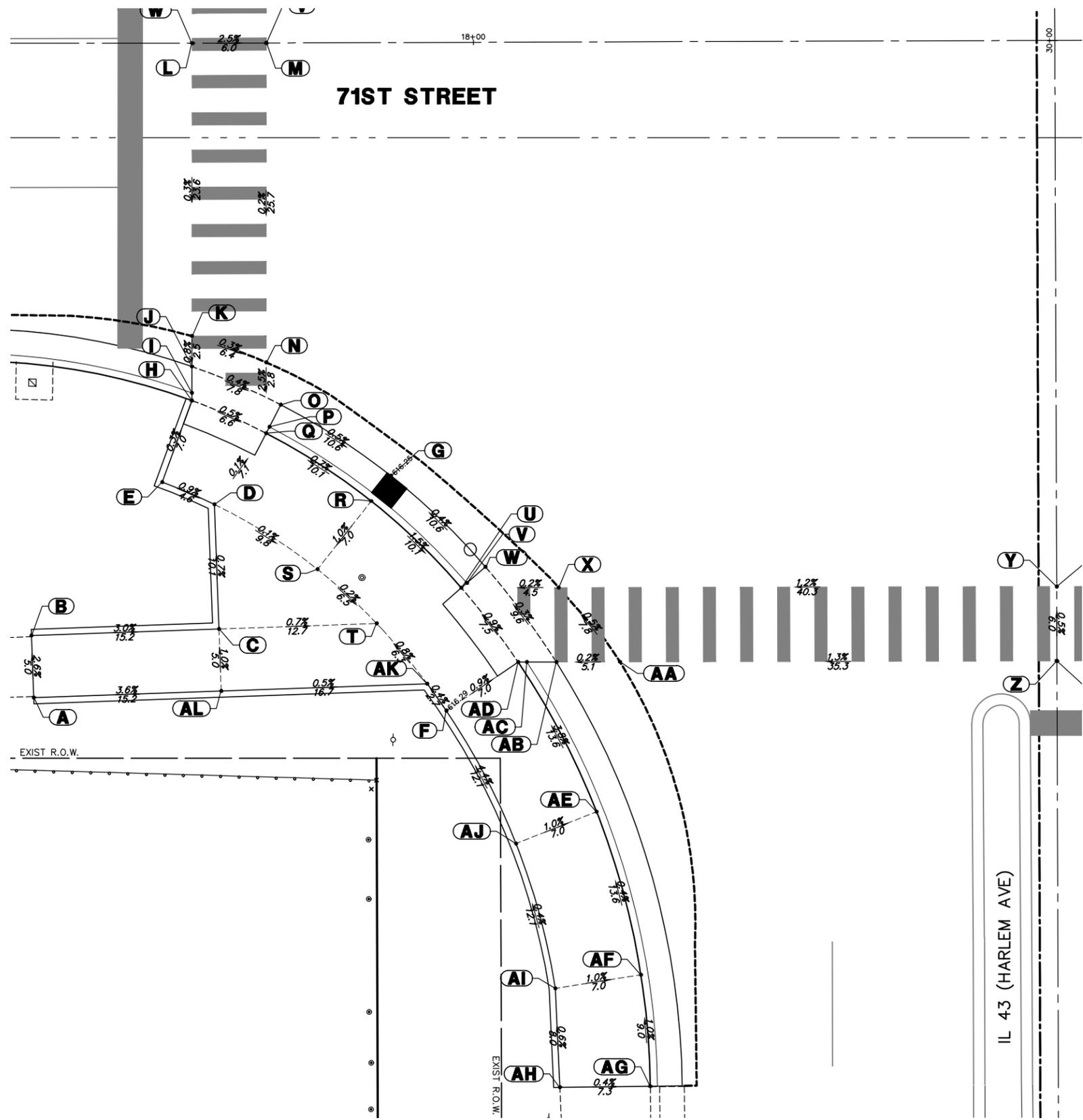
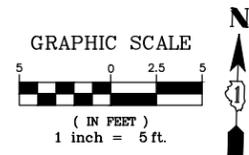
DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA GRADING PLAN
 71ST STREET ROADWAY IMPROVEMENTS**
 SCALE 1"=5' SHEET NO. OF SHEETS STA. TO STA.

FALL/FAP. RTES. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 25
CONTRACT # 61J45			ILLINOIS FED. AID PROJECT	



ADA GRADING TABLE			
	STATION	OFFSET	ELEVATION
A	17+64.5	52.7' R	(616.91)
B	17+64.3	47.7' R	(616.78)
C	17+79.3	47.2' R	616.32
D	17+78.9	37.2' R	616.25
E	17+74.9	35.4' R	616.29
F	17+97.6	53.8' R	616.29
G	17+93.2	34.9' R	616.25
H	17+77.2	28.8' R	616.27
I	17+77.2	28.2' R	616.23
J	17+77.2	26.0' R	616.33
K	17+77.2	23.6' R	(616.35)
L	17+77.3	0.0'	(616.42)
M	17+83.3	0.0'	(616.27)

ADA GRADING TABLE			
	STATION	OFFSET	ELEVATION
N	17+83.2	25.7' R	(616.33)
O	17+84.3	29.1' R	616.30
P	17+83.4	30.9' R	616.20
Q	17+83.2	31.4' R	616.24
R	17+91.6	36.9' R	616.31
S	17+87.3	42.4' R	616.24
T	17+92	46.8' R	616.23
U	17+98.9	43.9' R	616.16
V	17+99.3	43.6' R	616.12
W	18+00.8	42.3' R	616.29
X	18+06.7	44.0' R	(616.29)
Y	18+47	44.0' R	(616.77)
Z	18+47	50.0' R	(616.80)

ADA GRADING TABLE			
	STATION	OFFSET	ELEVATION
AA	18+11.7	50.0' R	(616.33)
AB	18+06.5	50.0' R	616.32
AC	18+04.2	49.9' R	616.19
AD	18+03.5	49.9' R	616.23
AE	18+09.8	62.0' R	616.75
AF	18+13.3	75.2' R	616.80
AG	18+14	84.2' R	(616.89)
AH	18+06.7	84.2' R	(616.92)
AI	18+06.4	76.2' R	616.87
AJ	18+03.2	64.6' R	616.82
AK	17+96.1	51.7' R	616.28
AL	17+79.5	52.2' R	616.37

SOUTHWEST CORNER 71ST STREET AND IL 43 (HARLEM AVE)

GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PH: 847.480.7000
 FAX: 847.480.7001

FILE NAME = 5102.810-ADA.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

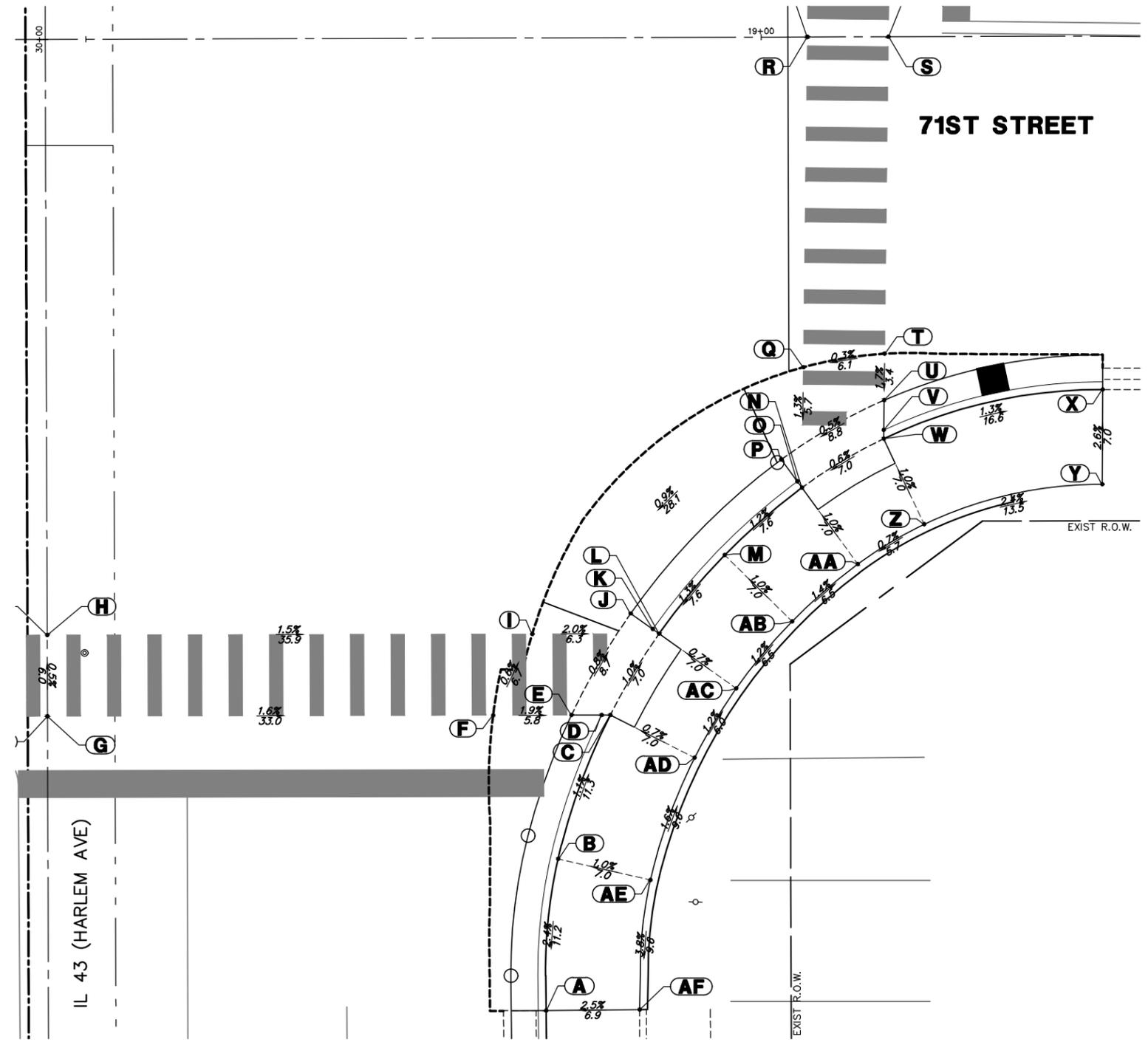
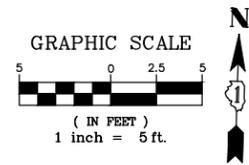
DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA GRADING PLAN
 71ST STREET ROADWAY IMPROVEMENTS**
 SCALE 1"=5' SHEET NO. OF SHEETS STA. TO STA.

FALL/FAP. RTES. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 26
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				



SOUTHEAST CORNER 71ST STREET AND IL 43 (HARLEM AVE)

ADA GRADING TABLE			
	STATION	OFFSET	ELEVATION
A	18+83.8	71.8' R	(616.55)
AA	19+07	38.9' R	615.96
AB	19+02.2	43.2' R	616.05
AC	18+98	48.1' R	616.13
AD	18+94.9	53.2' R	616.20
AE	18+91.6	62.2' R	616.35
AF	18+90.8	71.8' R	(616.72)
B	18+84.8	60.7' R	616.28
C	18+88.7	50.0' R	616.15
D	18+88	50.0' R	616.11
E	18+85.8	50.0' R	616.16
F	18+80	50.0' R	616.27
G	18+47	50.0' R	616.80
H	18+47	44.0' R	616.77
I	18+82.9	44.0' R	616.23
J	18+90.2	42.5' R	616.09

ADA GRADING TABLE			
	STATION	OFFSET	ELEVATION
K	18+91.8	43.7' R	616.04
L	18+92.3	44.0' R	616.08
M	18+97.2	38.2' R	615.98
N	19+02.9	33.3' R	615.89
O	19+02.6	32.8' R	615.85
P	19+01.4	31.2' R	615.90
Q	19+03	24.4' R	615.98
R	19+03.4	0.0' R	616.41
S	19+09.4	0.0'	616.40
T	19+09.1	23.4' R	616.00
U	19+09	26.8' R	615.94
V	19+09	29.0' R	615.89
W	19+09	29.7' R	615.93
X	19+25.5	26.1' R	(616.14)
Y	19+25.5	33.1' R	(616.32)
Z	19+12	36.0' R	616.00

GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX: 847.483.0700

FILE NAME = 5102.810-ADA.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA GRADING PLAN
 71ST STREET ROADWAY IMPROVEMENTS**

SCALE 1"=5' SHEET NO. OF SHEETS STA. TO STA.

FILE/FAP RITES: 1537/348	SECTION: 16-00038-00-CH	COUNTY: COOK	TOTAL SHEETS: 65	SHEET NO.: 27
CONTRACT #: 61J45			ILLINOIS FED. AID PROJECT	

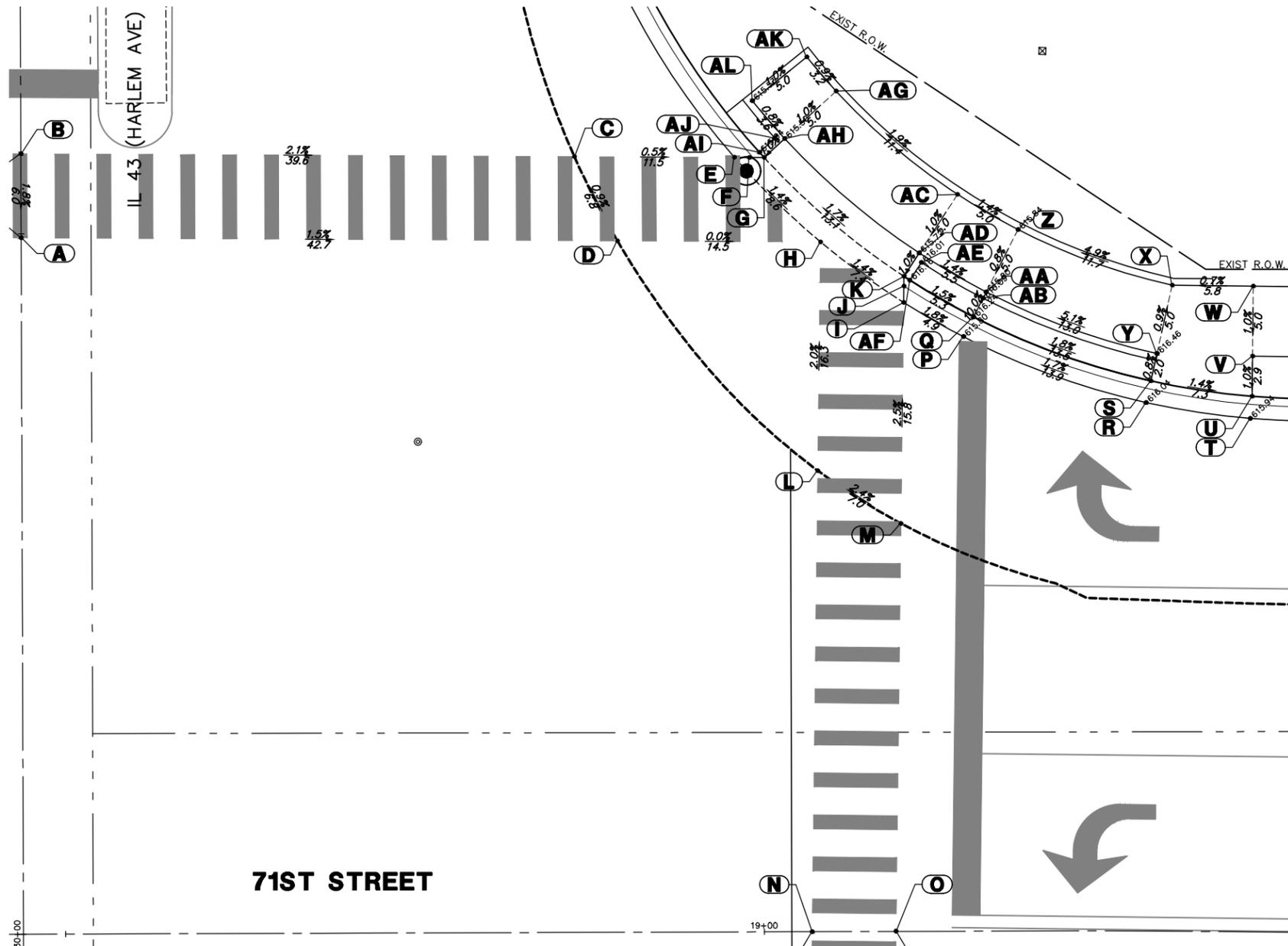
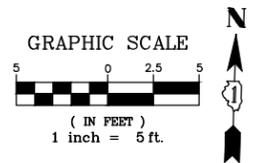
ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
A	18+47	49.7' L	616.27
B	18+47	55.7' L	616.38
C	18+86.6	55.4' L	615.55
D	18+89.6	49.4' L	615.61
E	18+98	55.3' L	615.49
F	18+99.1	55.3' L	615.44
G	19+00.2	55.3' L	615.48
H	19+04.2	49.2' L	615.61
I	19+10.1	44.9' L	615.71

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
J	19+10.1	46.1' L	615.66
K	19+10.1	46.8' L	615.70
L	19+03.9	32.9' L	615.93
M	19+09.9	29.1' L	616.10
N	19+03.4	0.0' R	616.41
O	19+09.4	0.0'	616.40
P	19+14.4	42.4' L	615.80
Q	19+15.1	43.8' L	616.24
R	19+27	37.7' L	616.04

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
S	19+27.4	39.3' L	616.48
T	19+34.5	36.6' L	615.94
U	19+34.6	38.2' L	616.38
V	19+34.6	41.1' L	616.41
W	19+34.6	46.1' L	616.46
X	19+28.8	46.1' L	616.42
Y	19+27.8	41.2' L	616.46
Z	19+18.3	50.1' L	615.84

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
AA	19+16	45.6' L	615.80
AB	19+15.8	45.2' L	616.09
AC	19+14	52.6' L	615.77
AD	19+11.2	48.4' L	615.72
AE	19+11.4	47.7' L	616.01
AF	19+10.6	46.5' L	616.16
AG	19+05.3	60.0' L	615.55
AH	19+01.6	56.6' L	615.50
AI	18+99.8	55.6' L	615.94

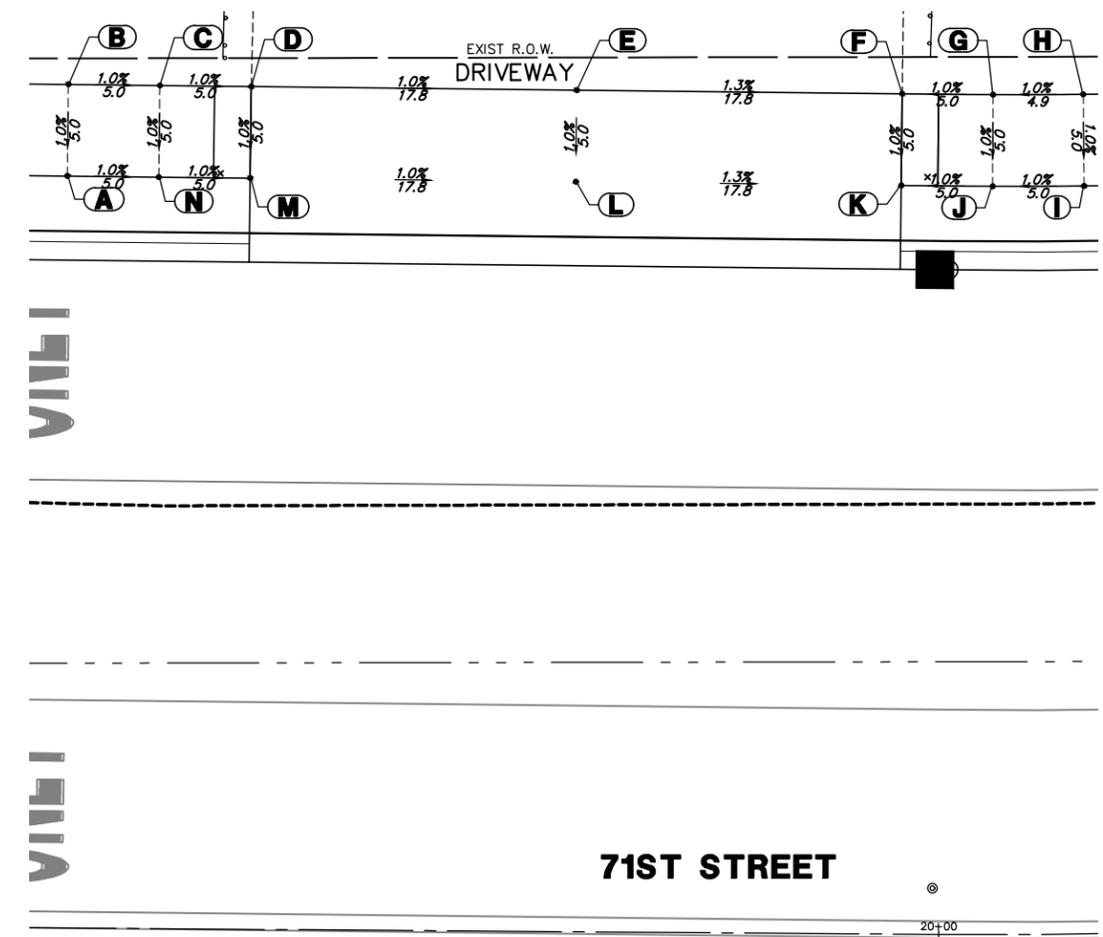
ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
AJ	19+00.9	56.7' L	615.79
AK	19+03.2	62.4' L	615.58
AL	18+99.3	59.3' L	615.53



ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
A	19+52	41.0' L	616.21
B	19+52.1	46.0' L	616.26
C	19+57.1	46.0' L	616.21
D	19+62.1	46.0' L	(616.16)
E	19+79.9	45.9' L	(615.98)

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
F	19+97.7	45.8' L	(615.75)
G	20+03	45.8' L	615.80
H	20+08.6	45.8' L	615.85
I	20+08.5	40.8' L	615.80
J	20+03	40.8' L	615.75

ADA GRADING TABLE			
STATION	OFFSET	ELEVATION	
K	19+97.6	40.8' L	615.70
L	19+79.8	40.9' L	615.93
M	19+62	41.0' L	616.11
N	19+57	41.0' L	616.16



GEWALT HAMILTON
 ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX: 847-480-7000
 FAX: 847-480-7001

FILE NAME = 5102.810-ADA.dwg
 USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

DESIGNED - MGFC	REVISED -
DRAWN - ZCW	REVISED -
CHECKED - MGFC	REVISED -
DATE - 2/14/2023	REVISED -

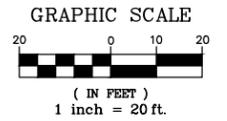
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA GRADING PLAN
71ST STREET ROADWAY IMPROVEMENTS
 SCALE 1"=5' SHEET NO. OF SHEETS STA. TO STA.

FALL/FAP RITES: 1537/348	SECTION: 16-00038-00-CH	COUNTY: COOK	TOTAL SHEETS: 65	SHEET NO.: 28
CONTRACT #: 61J45			ILLINOIS FED. AID PROJECT	

BEGIN IMPROVEMENTS
71ST STREET
STA. 12+70.91

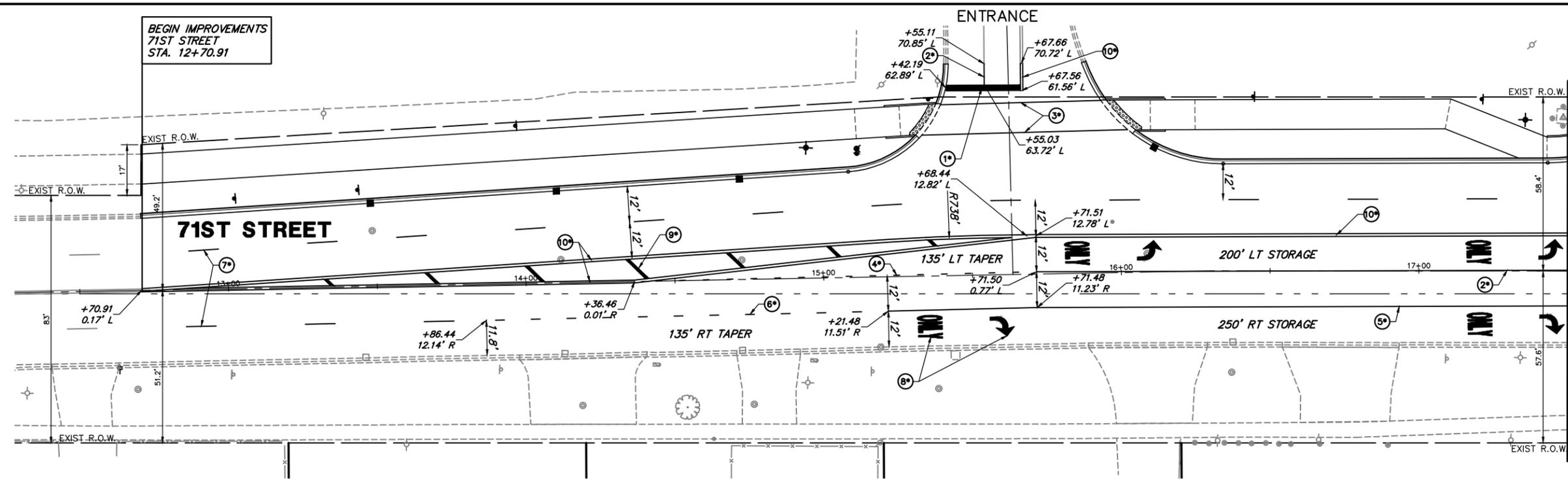
ENTRANCE



PAVEMENT MARKING LEGEND

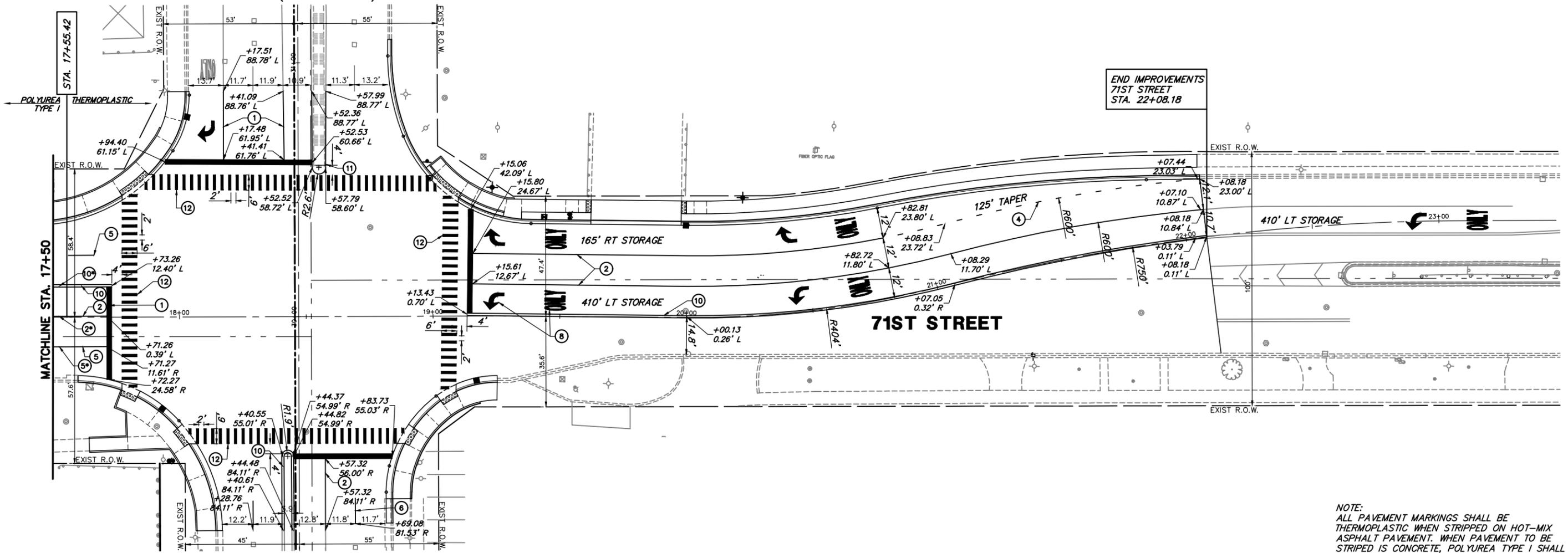
- ① 24" WHITE (TYP.)
- ② 6" WHITE (TYP.)
- ③ 6" WHITE (6' C-C)
- ④ 6" WHITE (8' SKIP/2' DASH) (TYP.)
- ⑤ 8" WHITE (TYP.)
- ⑥ 8" WHITE (9' SKIP/3' DASH) (TYP.)
- ⑦ 4" WHITE (30' SKIP/10' DASH) (TYP.)
- ⑧ WHITE LETTERS AND SYMBOLS (TYP.)
- ⑨ 12" YELLOW DIAGONALS (MINIMUM 5)
- ⑩ 2-4" YELLOW (11" C-C)
- ⑪ 4" YELLOW
- ⑫ 12" WHITE
- ⊙ INDICATES POLYUREA TYPE I

ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED



IL 43 (HARLEM AVE)

END IMPROVEMENTS
71ST STREET
STA. 22+08.18



NOTE:
ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WHEN STRIPPED ON HOT-MIX ASPHALT PAVEMENT. WHEN PAVEMENT TO BE STRIPPED IS CONCRETE, POLYUREA TYPE I SHALL BE USED.

GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PH: (847) 480-7800
 FAX: (847) 480-7801

FILE NAME = 5102.810-GE0.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 71ST STREET ROADWAY IMPROVEMENTS**
 SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.

FALL/EAR. RITES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	29
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				



MATCHLINE - STA. 29+00

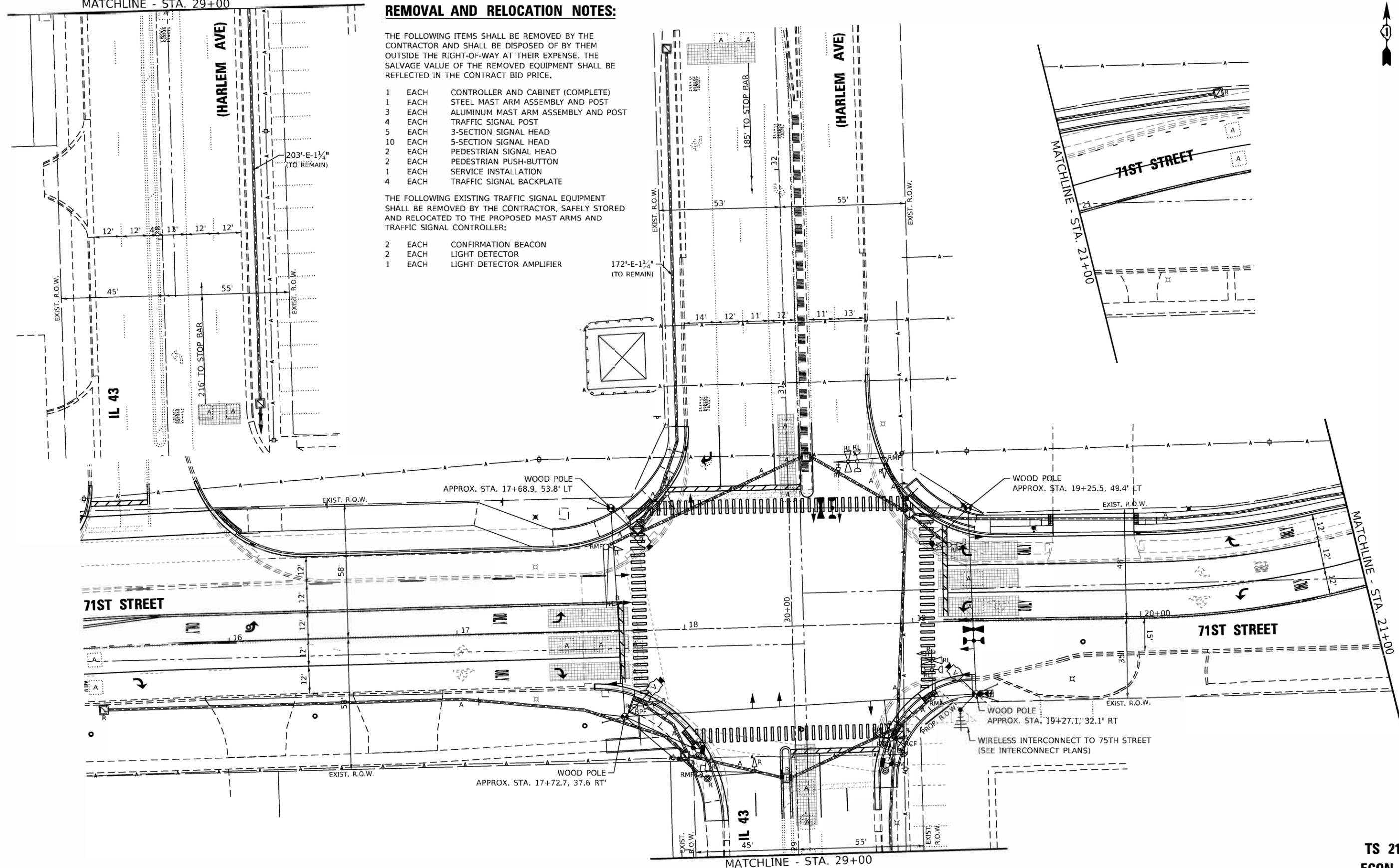
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH ALUMINUM MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 5 EACH 3-SECTION SIGNAL HEAD
- 10 EACH 5-SECTION SIGNAL HEAD
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

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



GHA GEWALT HAMILTON ASSOCIATES, INC. TS SHT NO. 1

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT -
71ST STREET AT IL 43 (HARLEM AVE)**

**TS 2165
ECON 61**

FILE NAME =	USER NAME = rwallsten
5102.810-sht-TS-Temp.dgn	
5102.81	
Default	

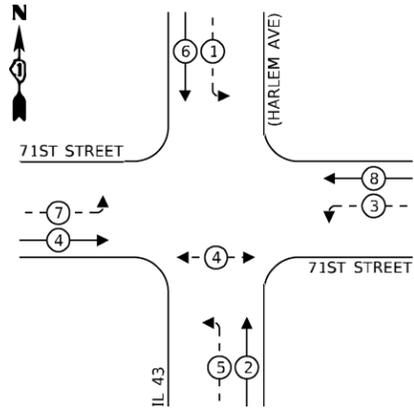
DESIGNED - RJH	REVISED -
DRAWN - ZCW	REVISED -
CHECKED - RJH	REVISED -
DATE - 2/15/2022	REVISED -

DESIGNED - RJH	REVISED -
DRAWN - ZCW	REVISED -
CHECKED - RJH	REVISED -
DATE - 2/15/2022	REVISED -

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	30
CONTRACT NO. 61J45				
ILLINOIS FED. AID PROJECT				

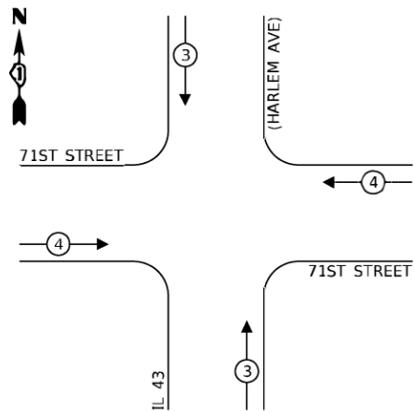
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	64.8
PROT-PERM ARROW	16	10	10	16
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
TOTAL =				473.8

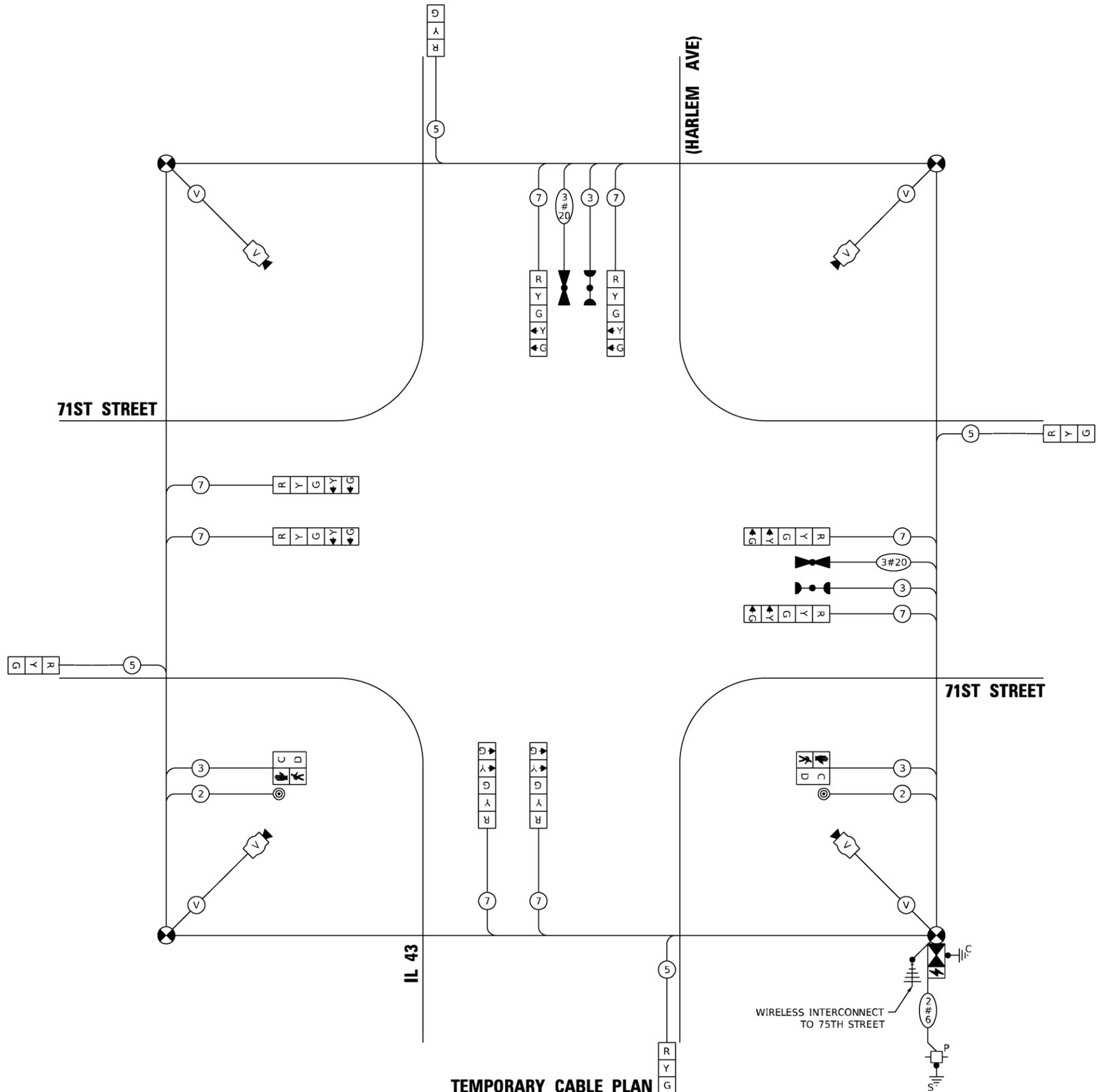
ENERGY COSTS TO:

THE VILLAGE OF BRIDGEVIEW
7500 S. OKETO AVENUE
BRIDGEVIEW, IL 60455

ENERGY SUPPLY: CONTACT: ILYAS MOHIVDDIN
PHONE: (708) 235-2692
COMPANY: COM-ED
ACCOUNT NUMBER: 17390-11030

FILE NAME =	USER NAME = zwallsten	DESIGNED - RJH	REVISED -
5102.810-shb-TS-Cable-Temp.dgn		DRAWN - ZCW	REVISED -
5102.81	PLOT SCALE = 1:20	CHECKED - RJH	REVISED -
Default	PLOT DATE = 2/15/2023	DATE - 2/15/2022	REVISED -

71ST STREET



TEMPORARY CABLE PLAN
(NOT TO SCALE)

WIRELESS INTERCONNECT TO 75TH STREET

GEWALT HAMILTON ASSOCIATES, INC. TS SHT NO. 2
MODEL: D:\shb\5102.810-shb-TS-Cable-Temp.dgn
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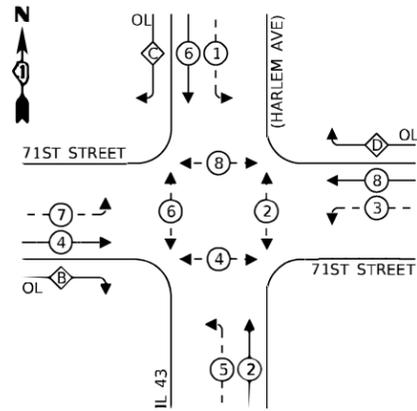
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
71ST STREET AT IL 43 (HARLEM AVE)**

F.A.U. RTE. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 31
CONTRACT NO. 61J45				
ILLINOIS FED. AID PROJECT				

**TS 2165
ECON 61**

PROPOSED CONTROLLER SEQUENCE



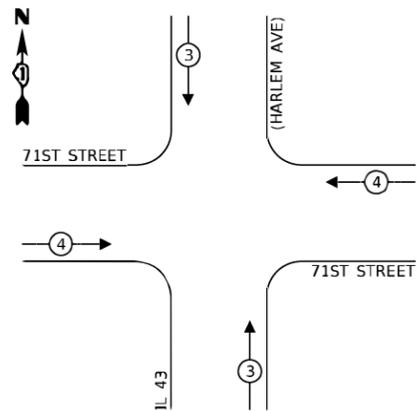
LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5
C	6	7
D	8	1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

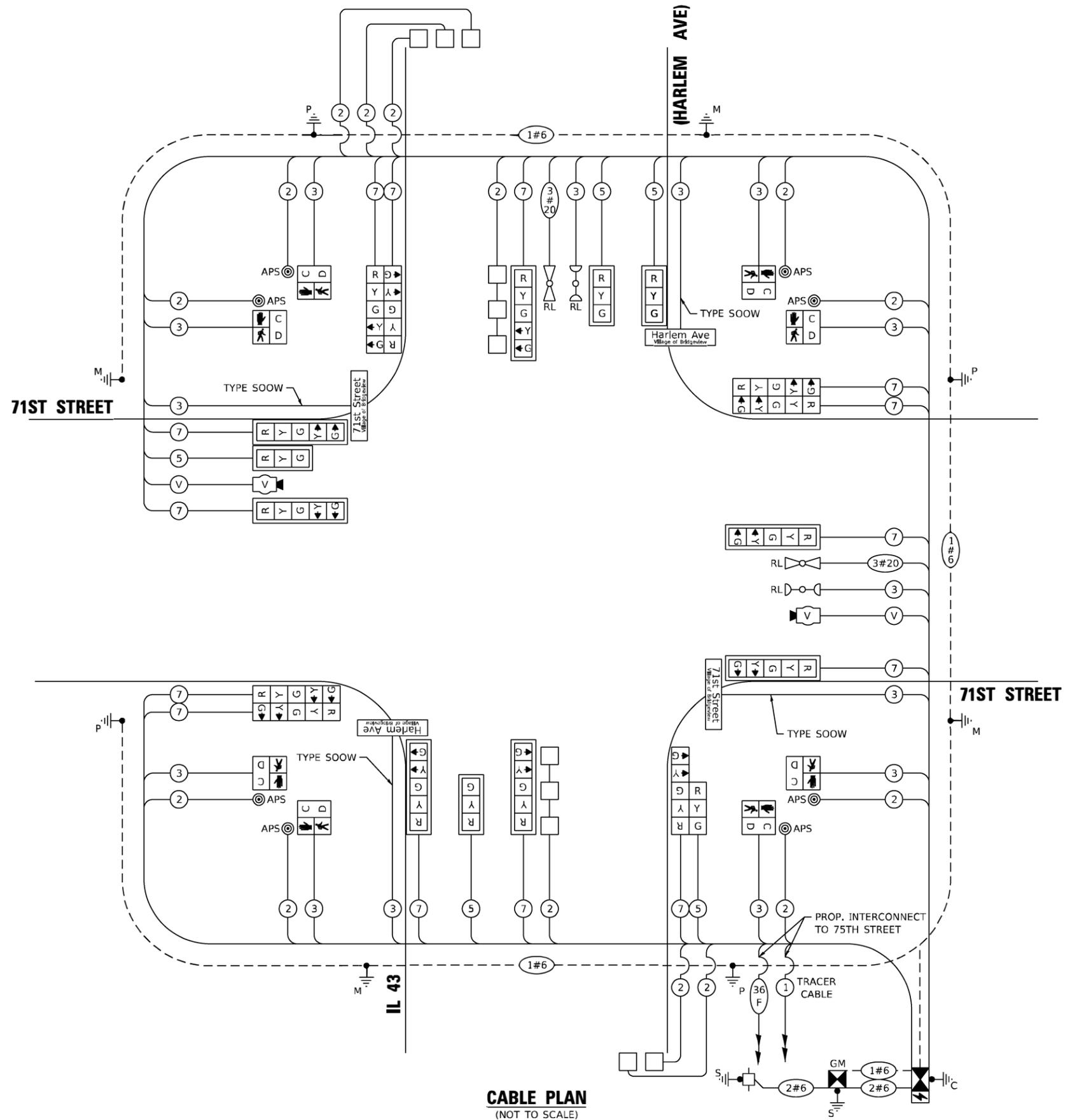
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	11	50	104,5
(YELLOW)	19	20	5	19
(GREEN)	19	12	45	102,6
PROT-PERM ARROW	28	10	10	28
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240
LUMINAIRE	-	250	50	-
TOTAL =				929,1

ENERGY COSTS TO:

THE VILLAGE OF BRIDGEVIEW
7500 S. OKETO AVENUE
BRIDGEVIEW, IL 60455

ENERGY SUPPLY: CONTACT: ILYAS MOHIVDDIN
PHONE: (708) 235-2692
COMPANY: COM-ED
ACCOUNT NUMBER: 17390-11030

FILE NAME =	USER NAME = rwallsten	DESIGNED - RJH	REVISED -
5102.810-sh-t-TS-Cable-Perm.dgn		DRAWN - ZCW	REVISED -
5102.81		CHECKED - RJH	REVISED -
Default		DATE - 2/15/2022	REVISED -



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE**
71ST STREET AT IL 43 (HARLEM AVE)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 33
CONTRACT NO. 61J45				
ILLINOIS FED. AID PROJECT				

TS 2165
ECON 61

INTERNALLY ILLUMINATED LED

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	15	2	ZZ	2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9	2	ZZ	2

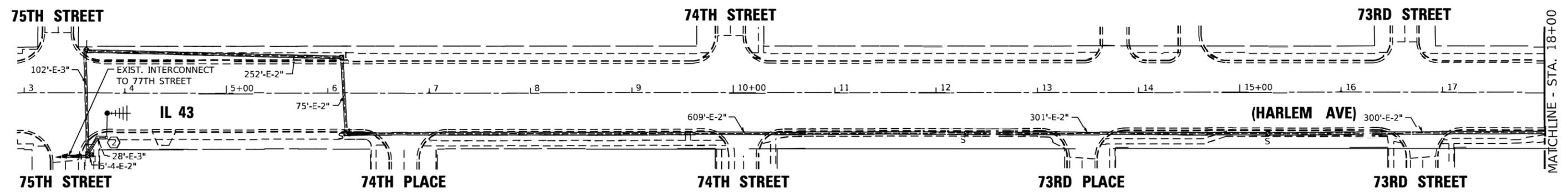
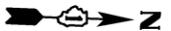
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/4" DIA.	FOOT	20
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	188
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	128
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	529
CONDUIT SPLICE	EACH	2
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,497
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,913
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,128
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,151
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,233
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	110
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	657
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	360
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	360
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	858
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE VILLAGE OF BEDFORD PARK

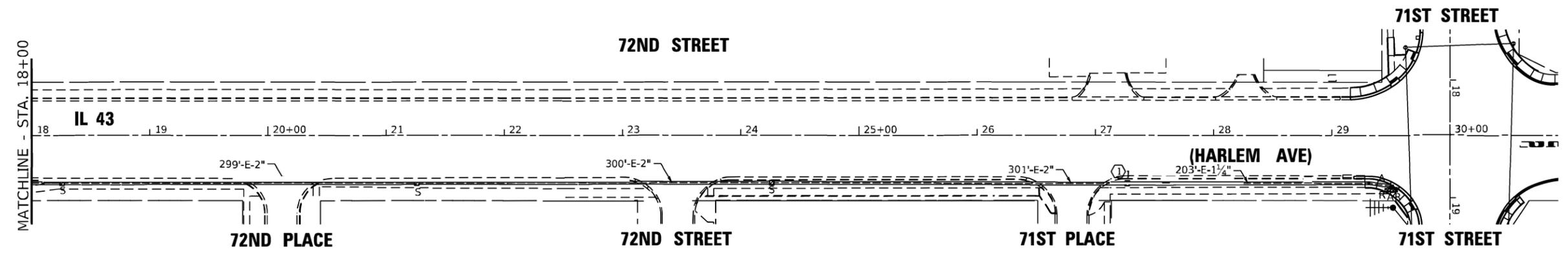
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5102.81	PLOT SCALE = 1:20	DRAWN - ZCW	REVISED -
Default	PLOT DATE = 2/15/2023	CHECKED - RJH	REVISED -
		DATE - 2/15/2022	REVISED -

F.A.U. RTE. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 34
			CONTRACT NO. 61J45	
ILLINOIS FED. AID PROJECT				



CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLES FROM THE CONDUIT BETWEEN THE CABINET AT IL 43 (HARLEM AVE) AND 75TH STREET AND THE CABINET AT IL 43 (HARLEM AVE) AND 71ST STREET, AND ROD AND CLEAN THE EXISTING CONDUIT.
- ② THE CONTRACTOR SHALL TAKE MAINTENANCE OF THE EXISTING TRAFFIC SIGNAL INSTALLATION AT IL 43 (HARLEM AVE) AND 75TH STREET BEFORE INSTALLING TEMPORARY WIRELESS INTERCONNECT.



GEWALT HAMILTON ASSOCIATES, INC. TS SHT NO. 6
MODEL: .int
FILE NAME: 5102.810-sht-15-temp.dgn

FILE NAME = 5102.810-sht-TS-Temp.dgn	USER NAME = rwallsten	DESIGNED - RJH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT PLAN - ECON 61 IL 43 (HARLEM AVE) - FROM 71ST STREET TO 75TH STREET	F.A.U. RTE. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 35		
5102.81	PLOT SCALE = 1:50,001	CHECKED - RJH	REVISED -			SCALE: 1"=50'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 61J45			
.int	PLOT DATE = 2/15/2023	DATE - 2/15/2022	REVISED -			ILLINOIS FED. AID PROJECT						
ECON 61												

FILE NAME =	USER NAME = rwallsten
5102.810-shb-TS-temp.dgn	
5102.81	
Schem	

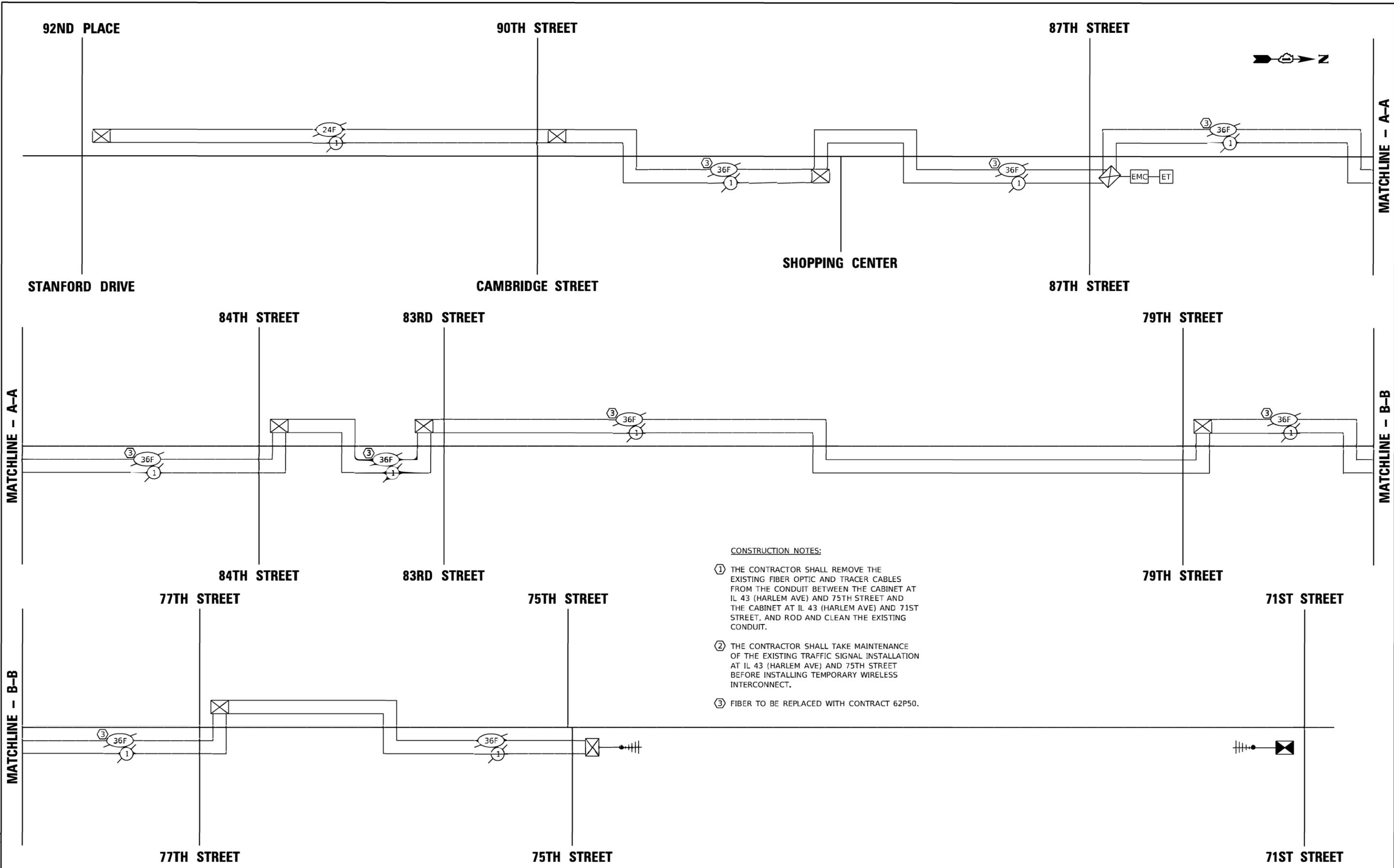
DESIGNED - RJH	REVISED -
DRAWN - ZCW	REVISED -
CHECKED - RJH	REVISED -
DATE - 2/15/2022	REVISED -

DESIGNED - RJH	REVISED -
DRAWN - ZCW	REVISED -
CHECKED - RJH	REVISED -
DATE - 2/15/2022	REVISED -

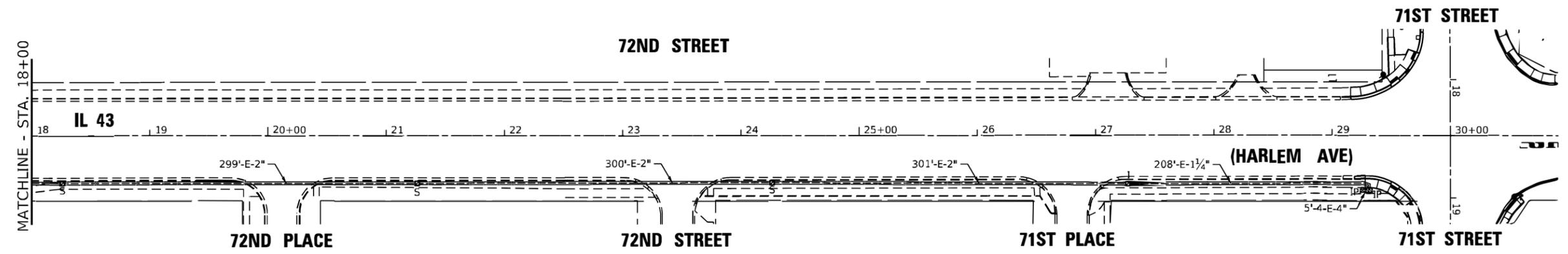
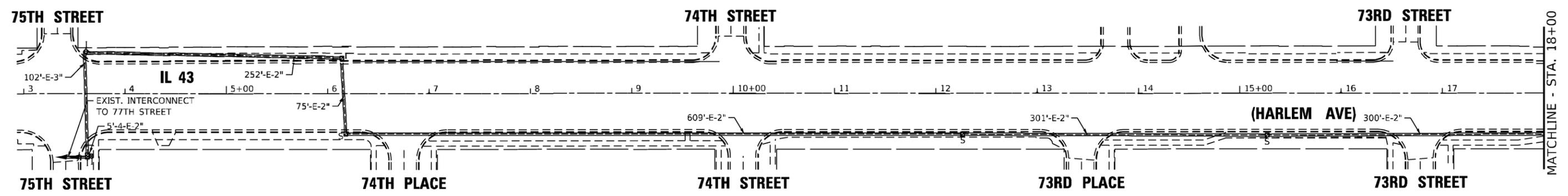
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT SCHEMATIC ECON 61 - IL 43	
(HARLEM AVE) FROM 82ND STREET TO 92ND STREET /STANFORD DRIVE	
SCALE: NONE	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
153 / 7 84	16-0003 00-CH	COOK	65	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J45	



- CONSTRUCTION NOTES:**
- ① THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLES FROM THE CONDUIT BETWEEN THE CABINET AT IL 43 (HARLEM AVE) AND 75TH STREET AND THE CABINET AT IL 43 (HARLEM AVE) AND 71ST STREET, AND ROD AND CLEAN THE EXISTING CONDUIT.
 - ② THE CONTRACTOR SHALL TAKE MAINTENANCE OF THE EXISTING TRAFFIC SIGNAL INSTALLATION AT IL 43 (HARLEM AVE) AND 75TH STREET BEFORE INSTALLING TEMPORARY WIRELESS INTERCONNECT.
 - ③ FIBER TO BE REPLACED WITH CONTRACT 62P50.



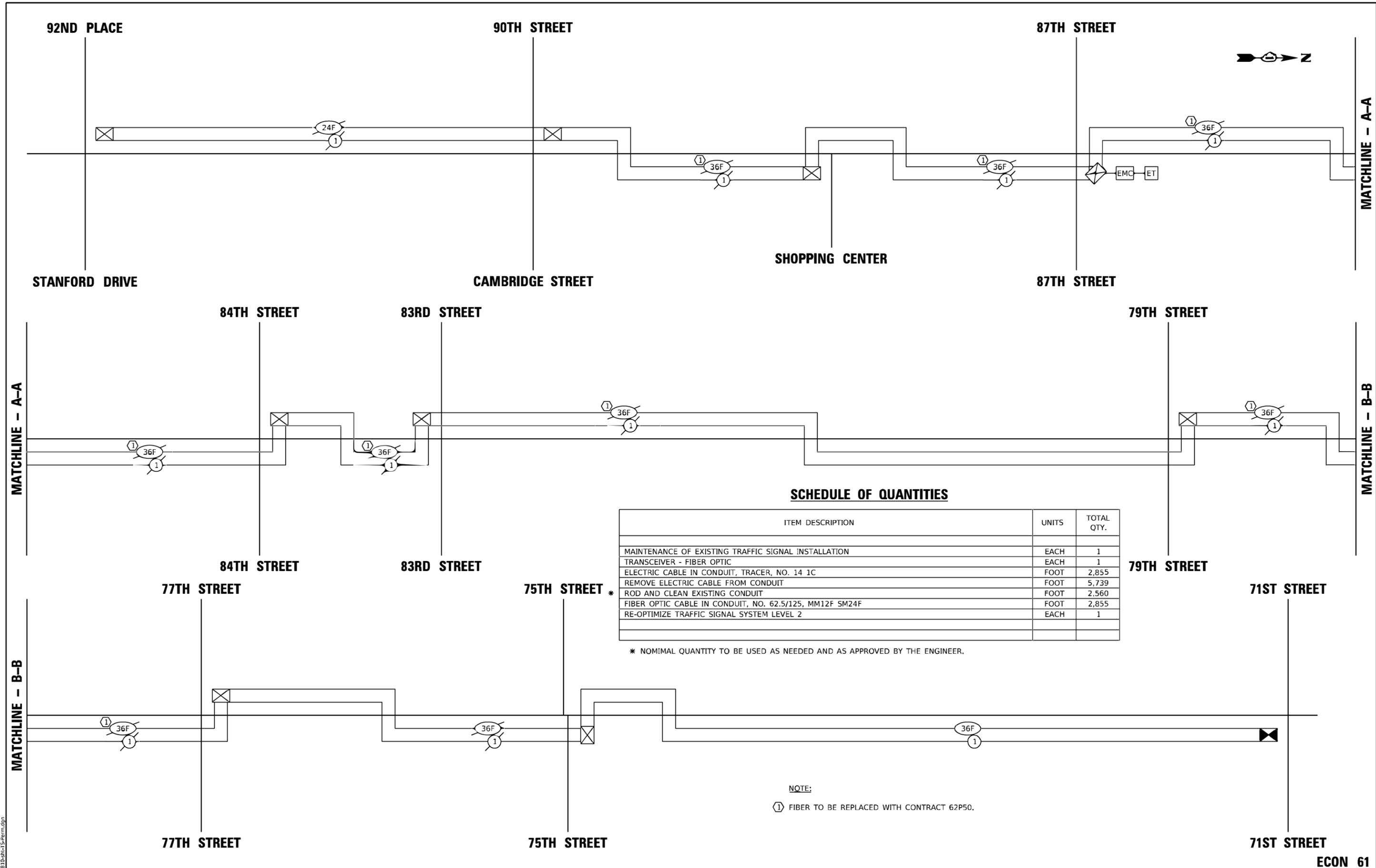
GHA GEWALT HAMILTON ASSOCIATES, INC. TS SHT NO. 8
MODEL: Int
 FILE NAME: 5102.810-shb-15-perm.dgn

FILE NAME = 5102.810-shb-15-perm.dgn	USER NAME = rwallsten	DESIGNED - RJH	REVISED -
5102.81	PLOT SCALE = 1:50	DRAWN - ZCW	REVISED -
Int	PLOT DATE = 2/15/2023	CHECKED - RJH	REVISED -
		DATE - 2/15/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PERMANENT INTERCONNECT PLAN ECON 61 - IL 43 (HARLEM AVE) FROM 71ST STREET TO 75TH STREET			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 37
CONTRACT NO. 61J45				ECON 61
ILLINOIS FED. AID PROJECT				



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2,855
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,739
ROD AND CLEAN EXISTING CONDUIT	FOOT	2,560
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,855
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER.

NOTE:
 (1) FIBER TO BE REPLACED WITH CONTRACT 62P50.

FILE NAME =	USER NAME = rwallsten	DESIGNED - RJH	REVISED -
5102.B10-shb-TS-Perm.dgn		DRAWN - ZCW	REVISED -
5102.B1	PLOT SCALE = 1:20	CHECKED - RJH	REVISED -
Int-Schem - 01	PLOT DATE = 2/15/2023	DATE - 2/15/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT INTERCONNECT SCHEMATIC ECON 61 - IL 43
 (HARLEM AVE) FROM 82ND STREET TO 92ND STREET /STANFORD DRIVE**

F.A.U. RTE. 15377348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 38
CONTRACT NO. 61J45			ILLINOIS FED. AID PROJECT	

ECON 61

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

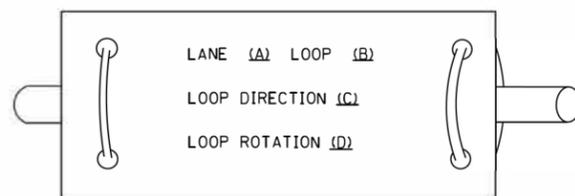
GEWALT HAMILTON ASSOCIATES, INC. TS SHT NO. 10

FILE NAME = ts05.dgn	USER NAME = lrysa	DESIGNED - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE. 537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 39
Default	PLOT SCALE = 50,0000' / in.	CHECKED - LP	REVISED -	SCALE: NONE	SHEET 1 OF 7 SHEETS	TS-05		CONTRACT NO. 61J45		
	PLOT DATE = 9/29/2016	DATE = 9/29/2016	REVISED -	STA. TO STA.		ILLINOIS FED. AID PROJECT				

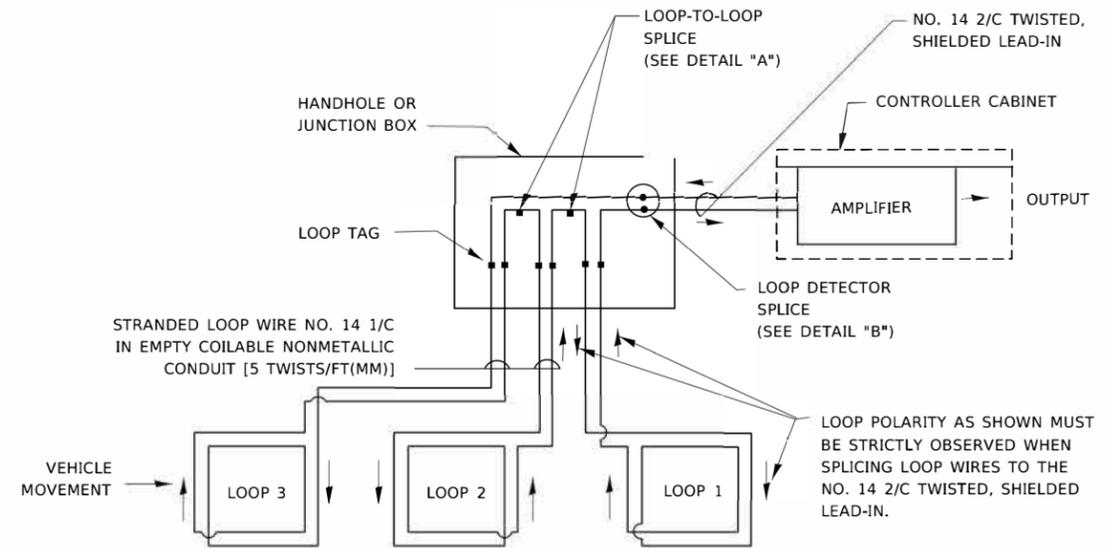
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

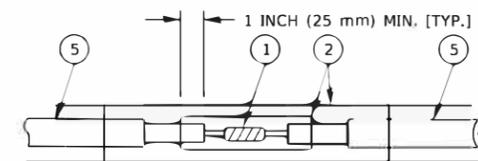


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

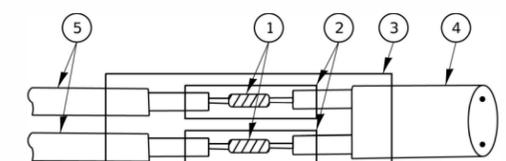


DETECTOR LOOP WIRING SCHEMATIC

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

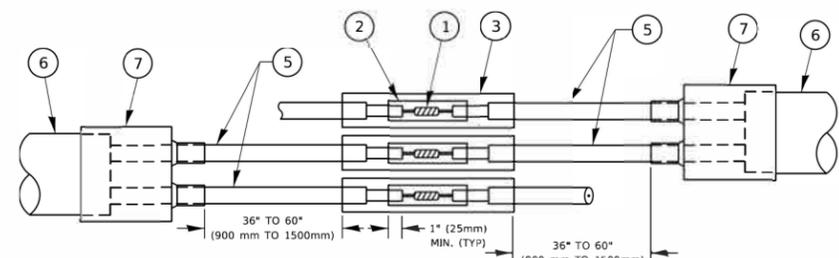


DETAIL "A"
LOOP-TO-LOOP SPLICE

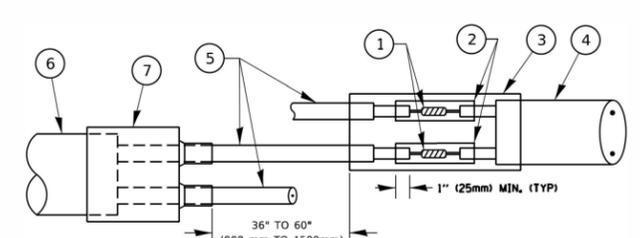


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

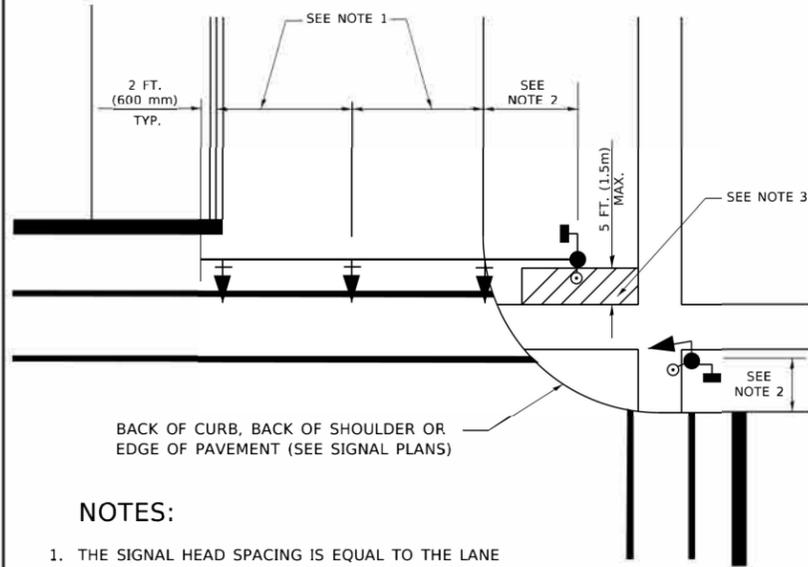
- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER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

USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
537/34B	16-00038-00-CH	COOK	65	40
TS-05			CONTRACT NO. 61J45	
ILLINOIS		FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

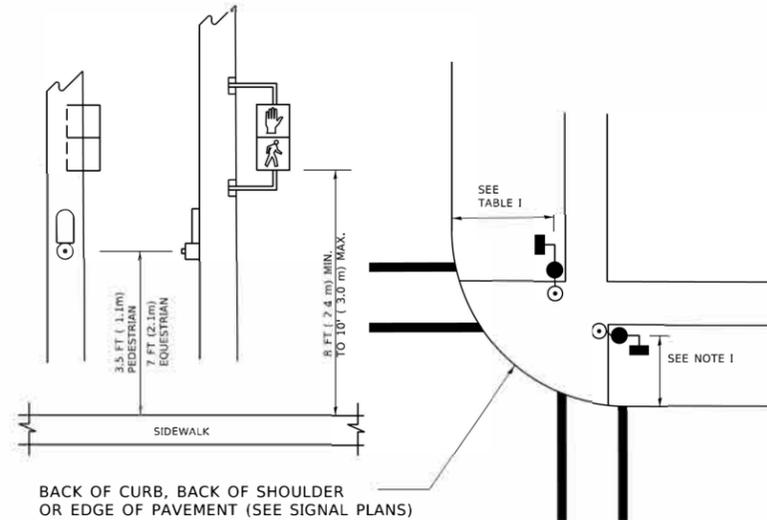
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

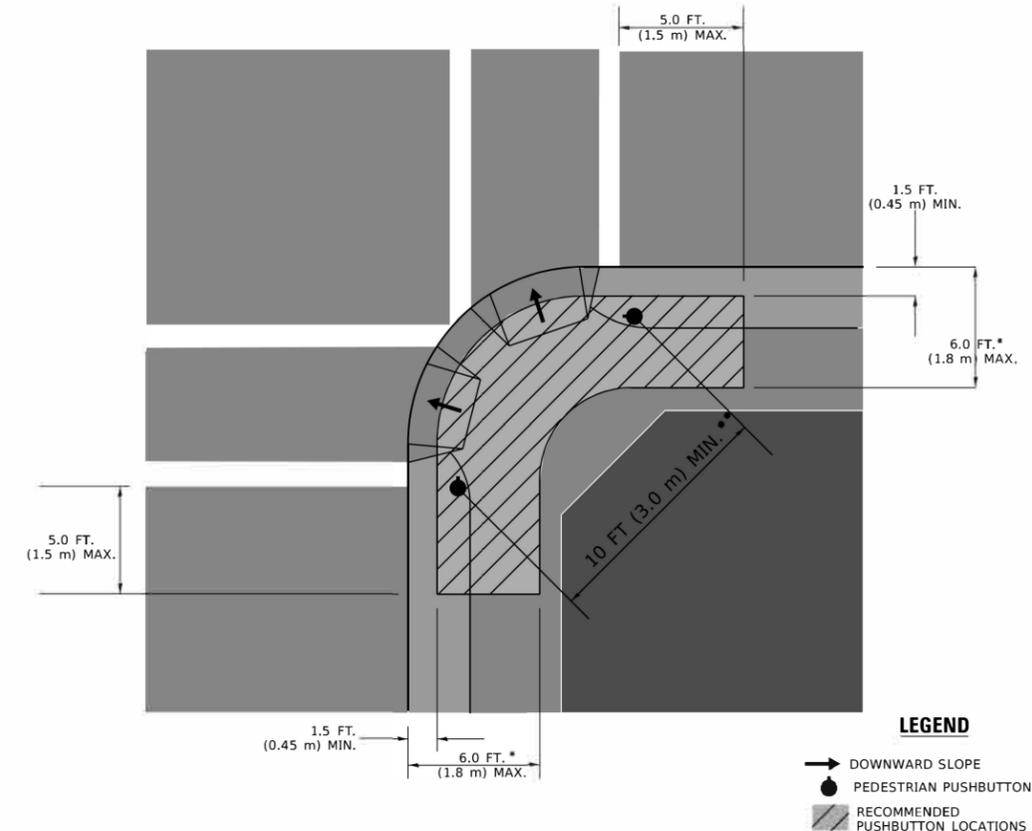
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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

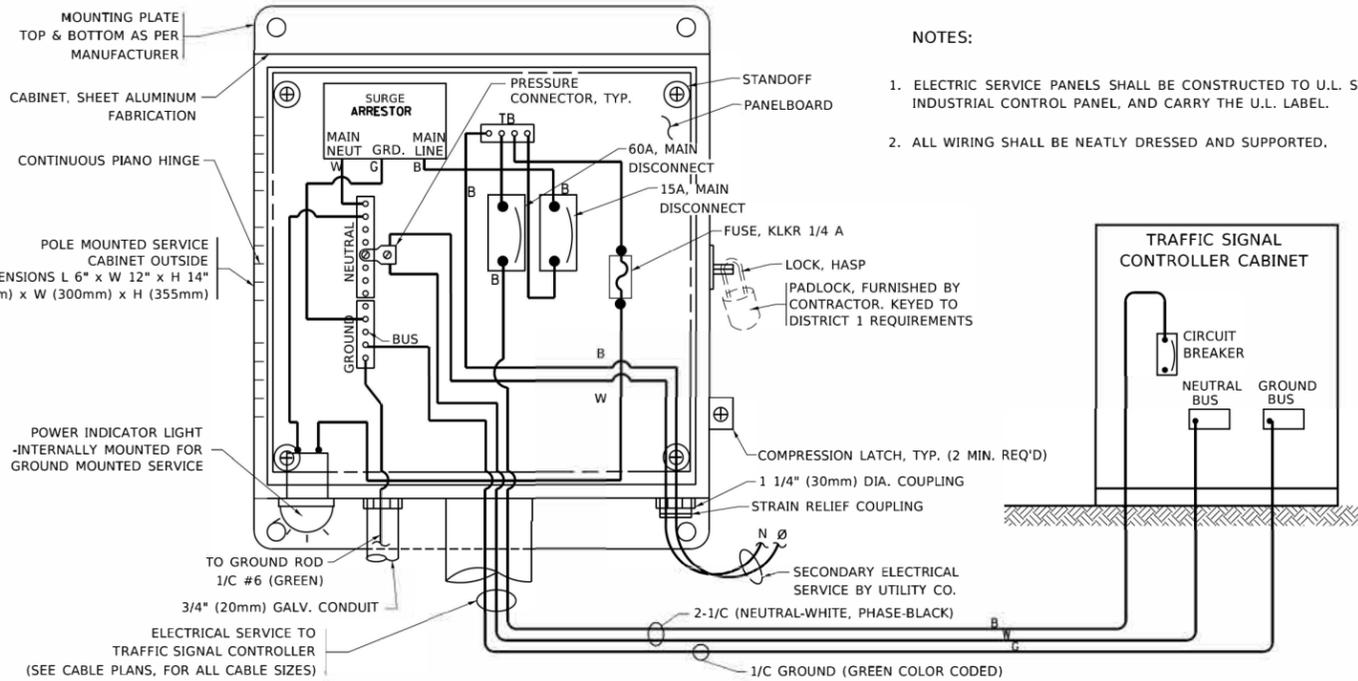
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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:

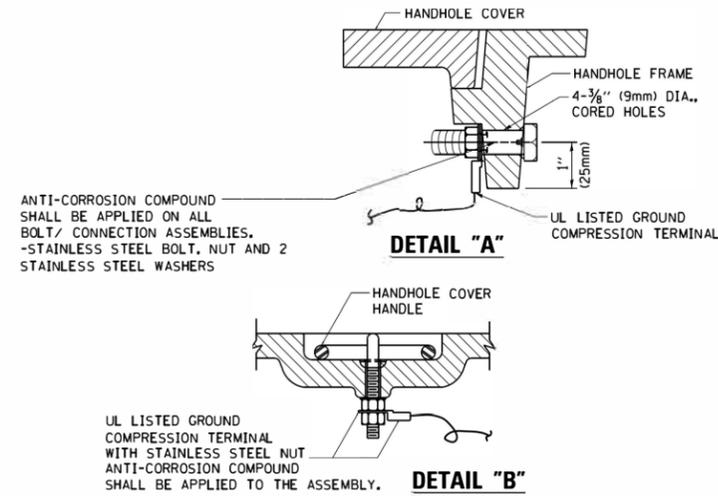
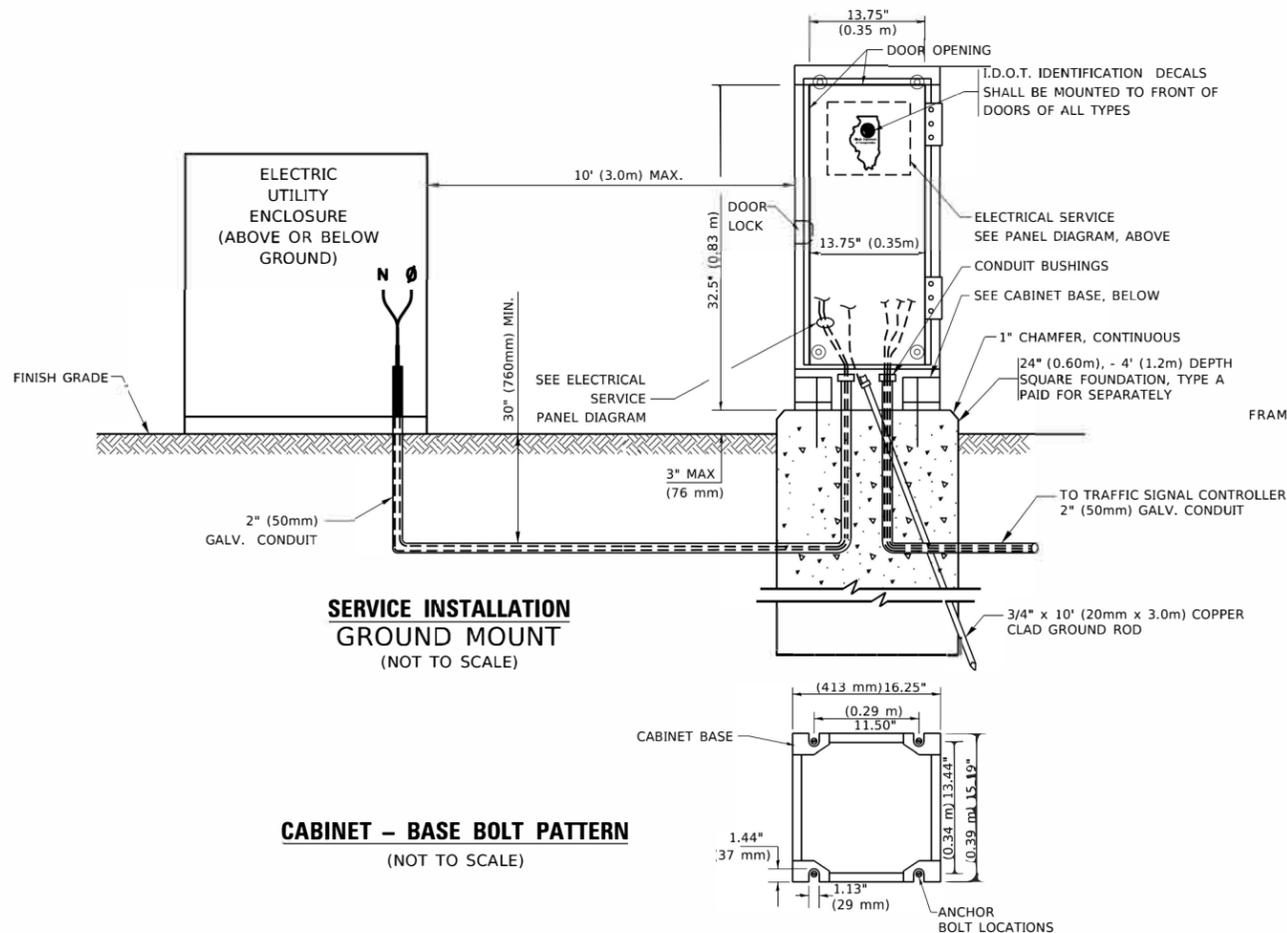
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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

USER NAME = footemj	DESIGNED -	REVISED -
PLOT SCALE = 50.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
537/34B	16-00038-00-CH	COOK	65	41
TS-05			CONTRACT NO. 61J45	
ILLINOIS FED. AID PROJECT				

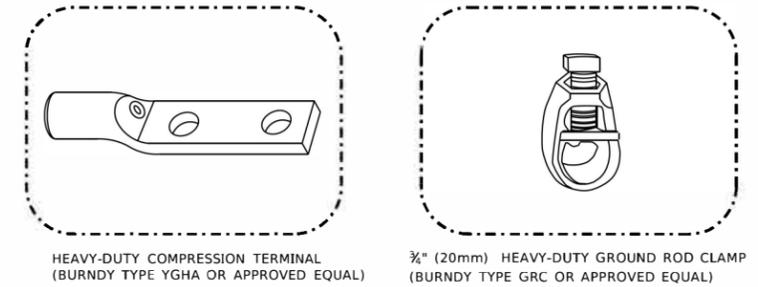
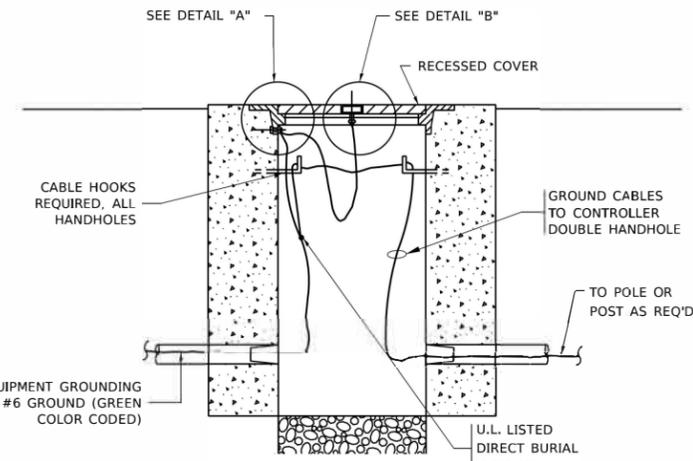


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



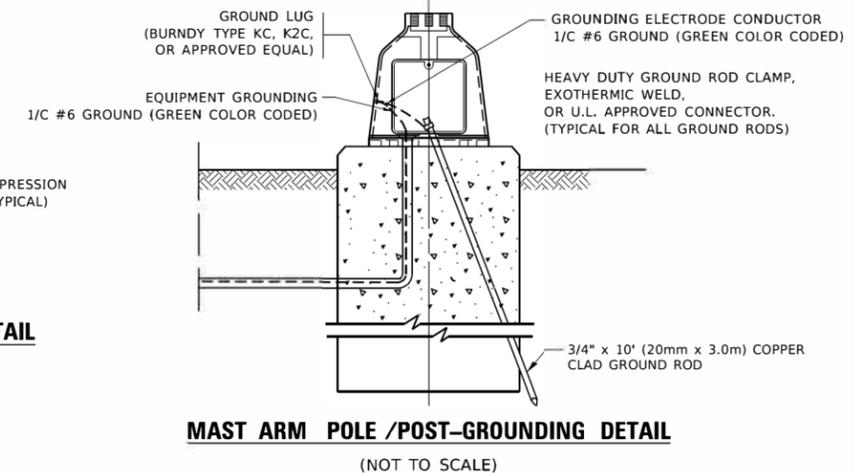
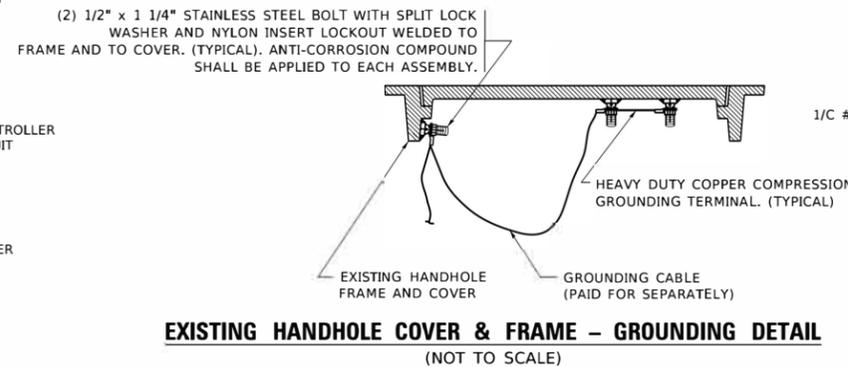
NOTES:
GROUNDING SYSTEM

- 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.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



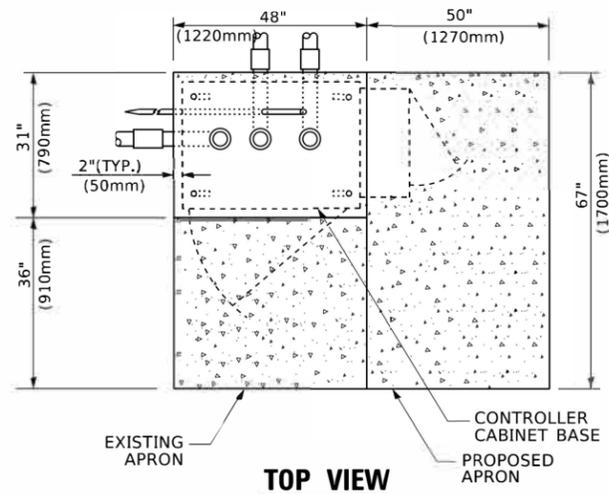
NOTES:

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

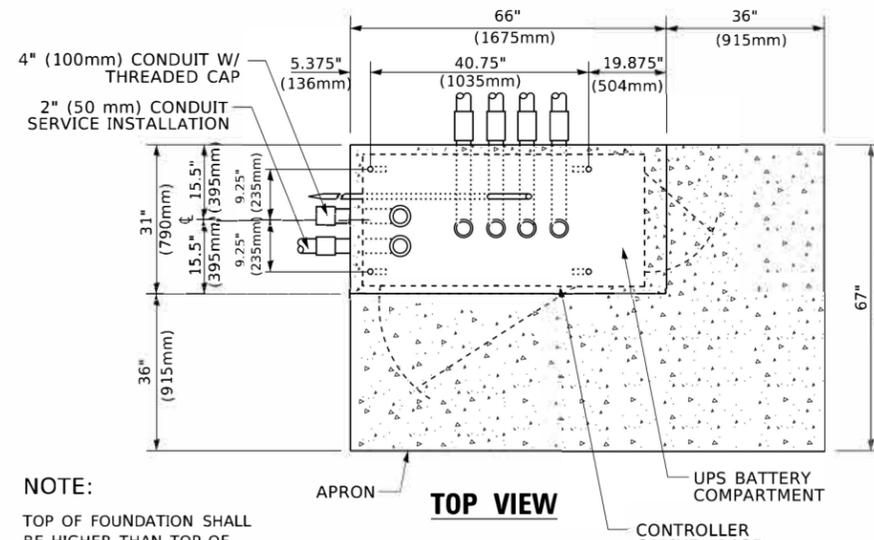


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PLOT SCALE = 50.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.U. RTE. 537/34B	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 42
TS-05		CONTRACT NO. 61J45		
ILLINOIS FED. AID PROJECT				

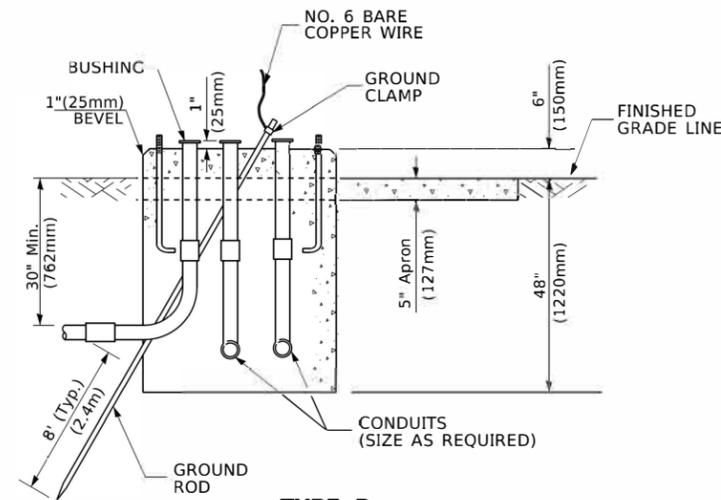


TOP VIEW

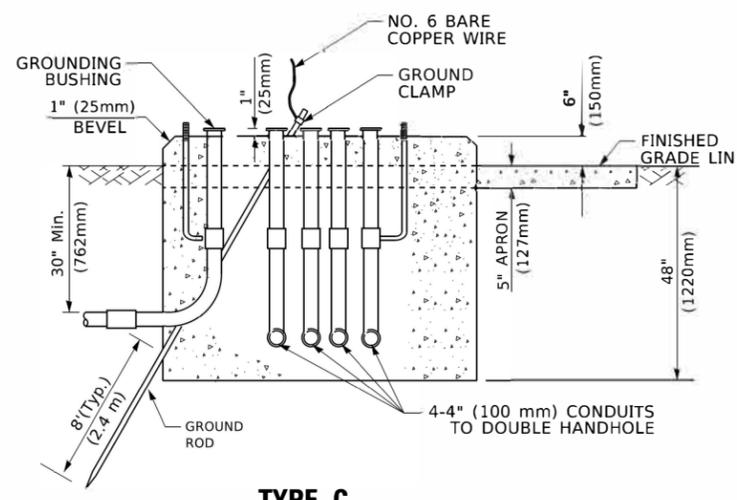


TOP VIEW

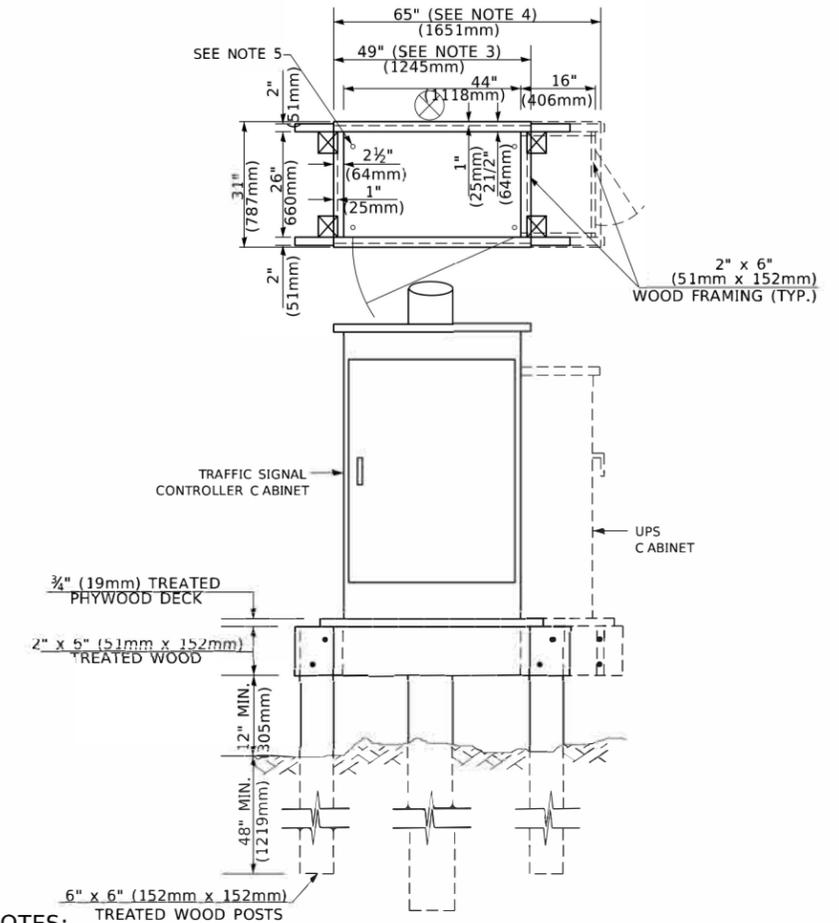
NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

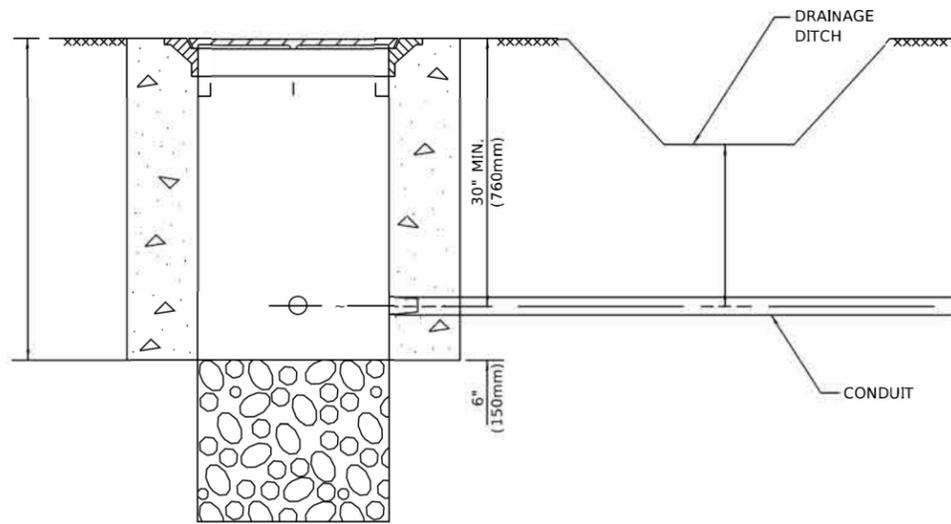
NOTES:

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

USER NAME = footej	DESIGNED =	REVISED =
PLOT SCALE = 50.0000' / 1"	DRAWN =	REVISED =
PLOT DATE = 3/4/2019	CHECKED =	REVISED =
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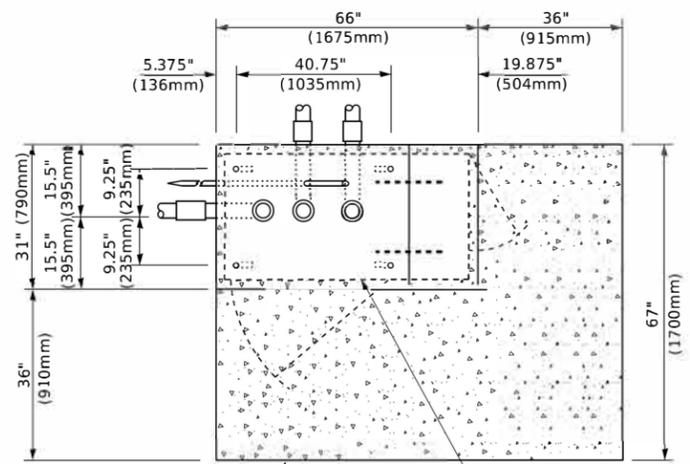
F.A.U. RTE. 537/34B	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 43
TS-05		CONTRACT NO. 61J45		
ILLINOIS FED. AID PROJECT				



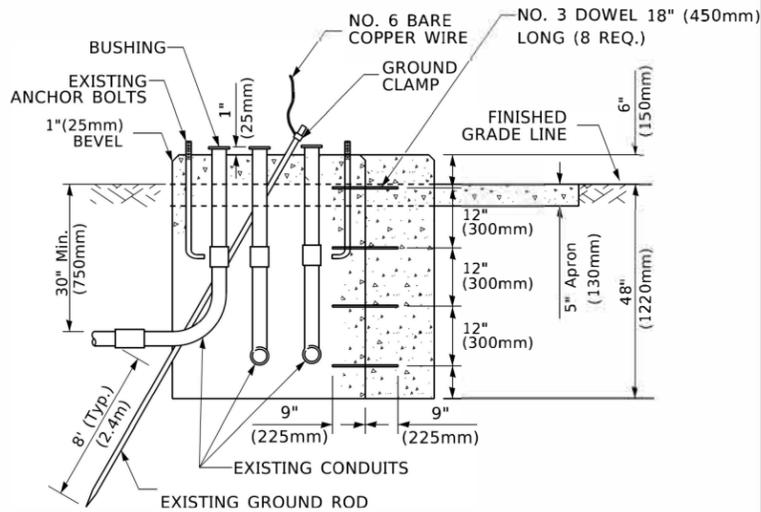
NOTES:

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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

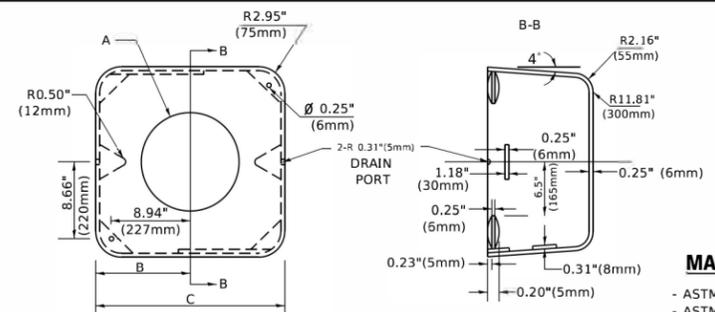


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

NOTES:

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



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)

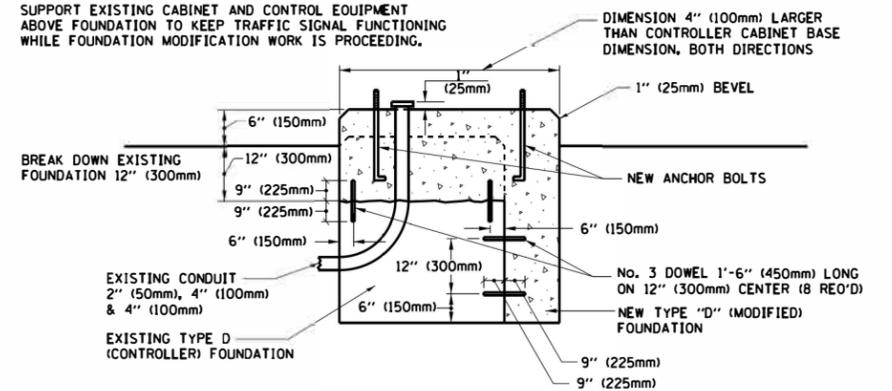
SHROUD

NOTES:

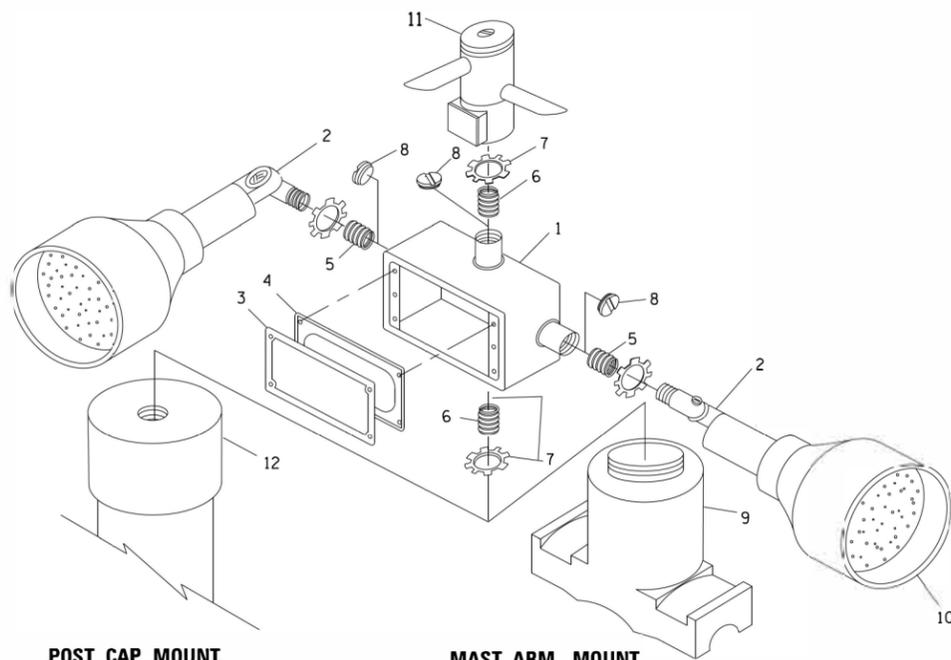
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

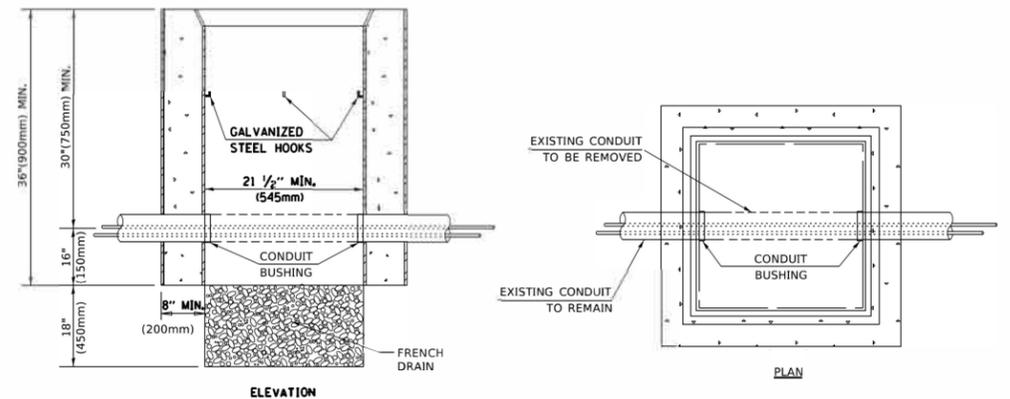
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



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



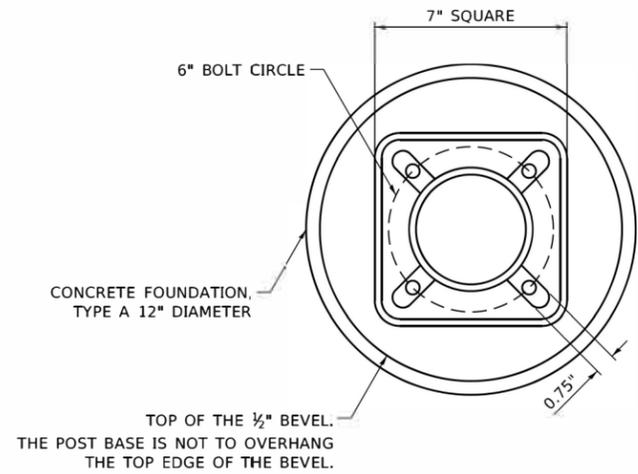
NOTES:

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

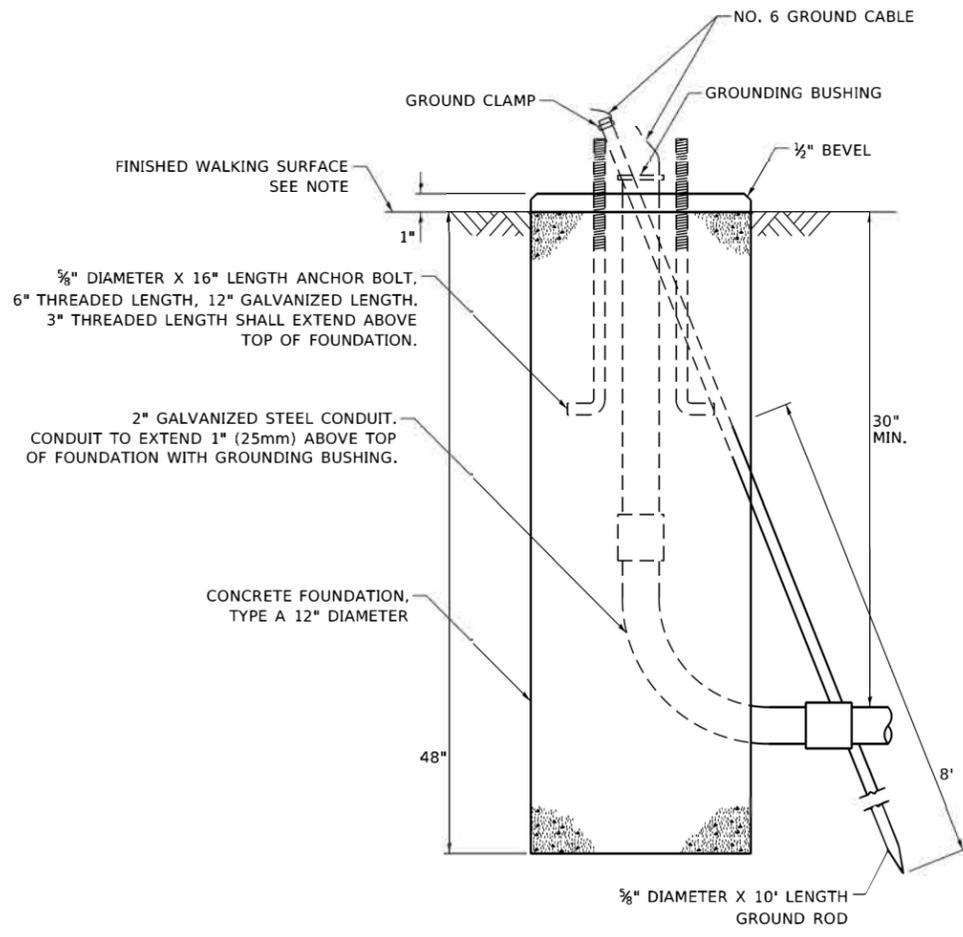
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F.A.U. RTE. 537/34B	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 44
TS-05		CONTRACT NO. 61J45		
ILLINOIS FED. AID PROJECT				

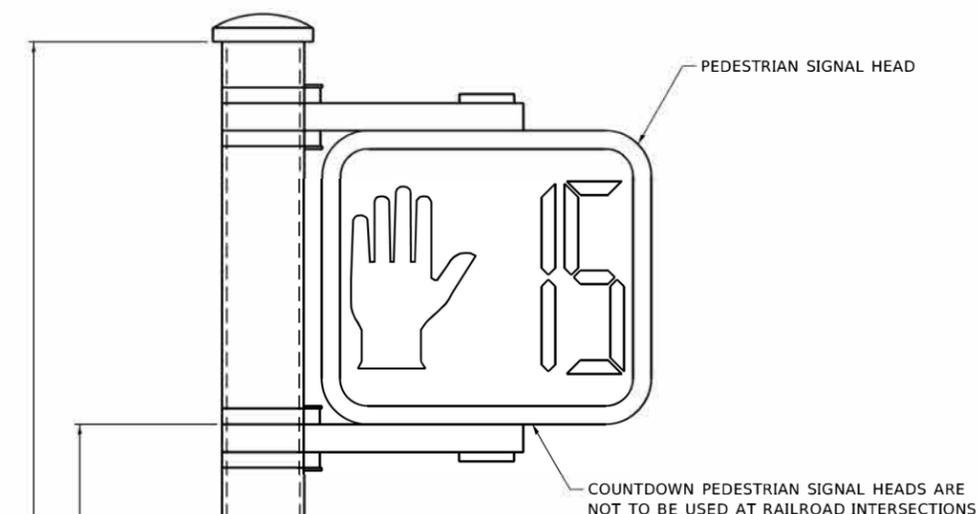


BOLT PATTERN

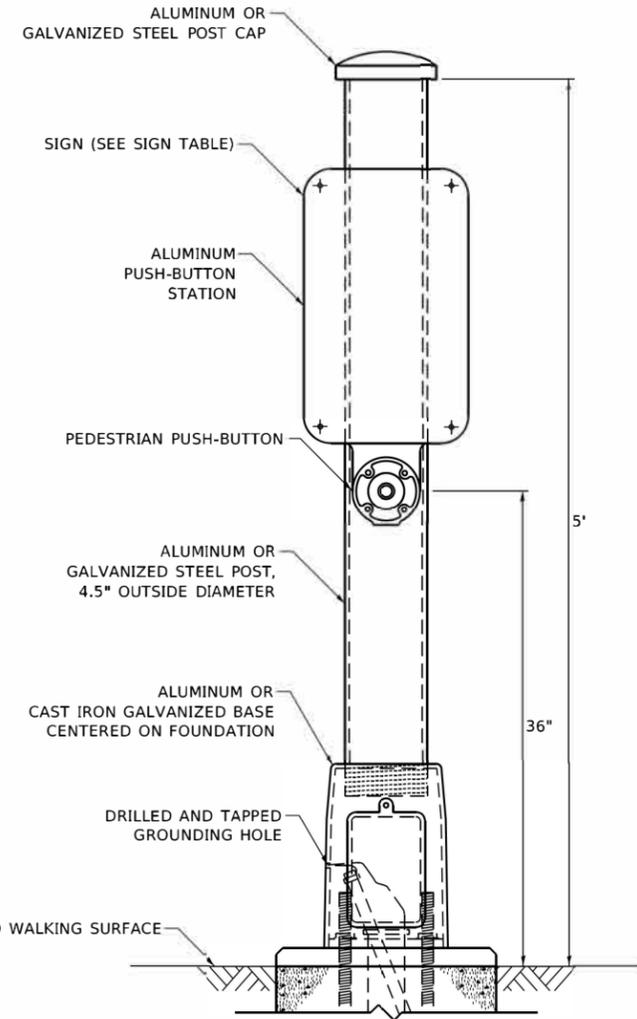
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



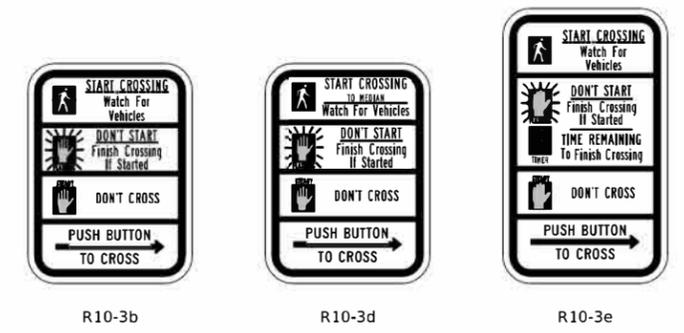
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.

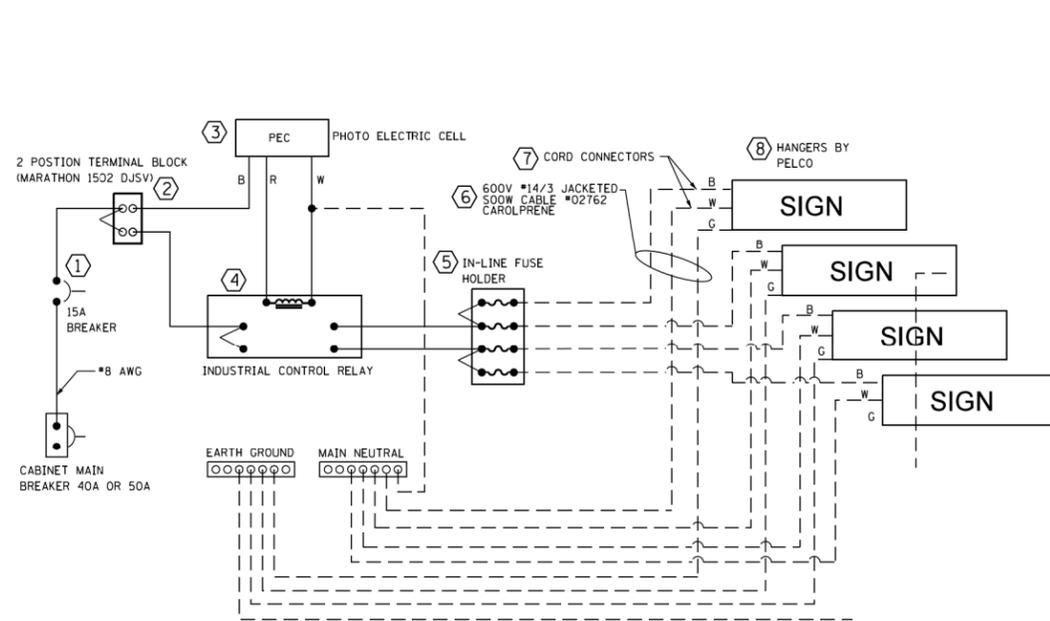


SIGN TABLE

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

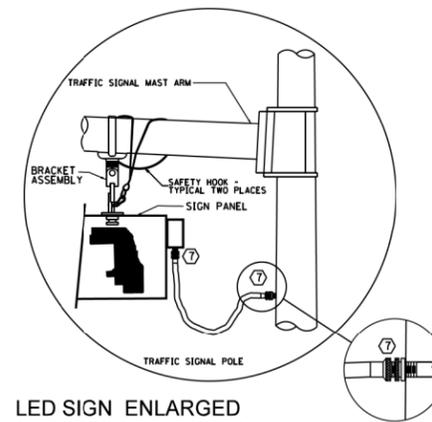
NOTES:
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

USER NAME = plascencia	DESIGNED - IP	REVISED - 10/15/2020
PLOT SCALE = 100,0000' / in.	DRAWN - IP	REVISED -
PLOT DATE = 11/17/2020	CHECKED - LP	REVISED -
	DATE - 10/15/2018	REVISED -



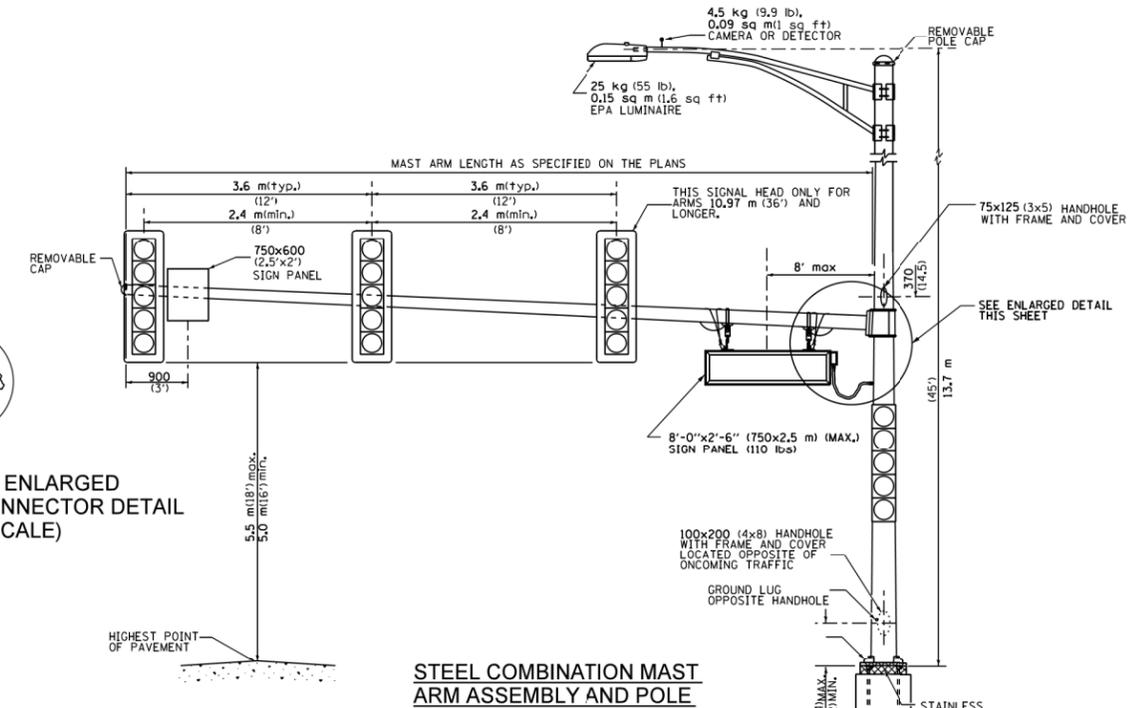
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
1. CIRCUIT BREAKER		15 AMPERE	
2. TERMINAL BLOCK	MARATHON	1502 DJSV	
3. PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
4. CONTRACTOR (INDUSTRIAL CONTROL RELAY)	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
5. INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMANN	S-8000 BK/S-8-3-4-R	
6. ELECTRIC CABLE, No. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE /SOOW	02762	
7. CORD/CABLE CONNECTOR	APPLETON	CG5050S (STEEL)	
8. SIGN MOUNTING HARDWARE	PELCO	SE-5015	

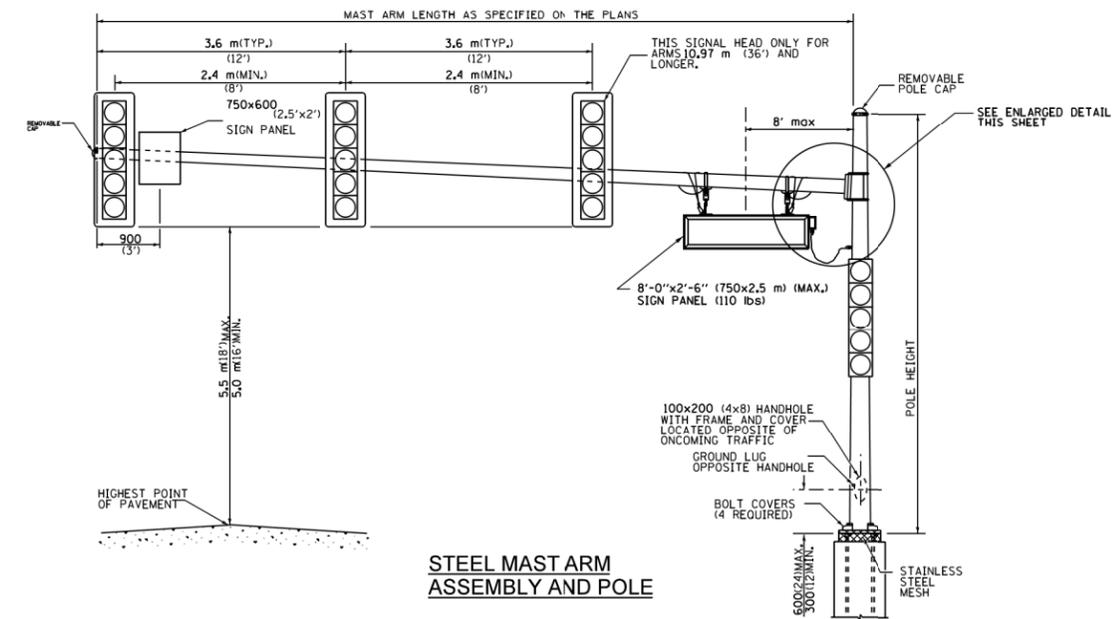


LED SIGN ENLARGED CABLE CONNECTOR DETAIL (NOT TO SCALE)

LED SIGN ENLARGED CABLE CONNECTOR DETAIL (NOT TO SCALE)



STEEL COMBINATION MAST ARM ASSEMBLY AND POLE



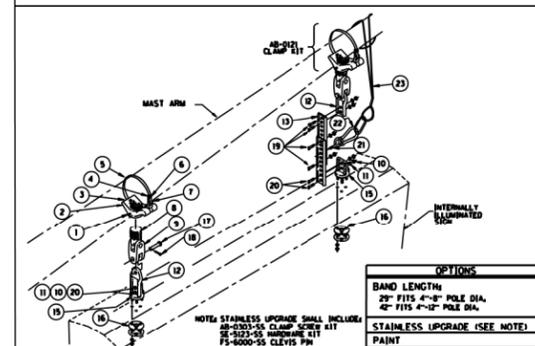
STEEL MAST ARM ASSEMBLY AND POLE

GENERAL NOTE:

- SIGNAL HEADS, SIGN PANELS, AND OTHER ATTACHMENT ARE SHOWN FOR MINIMUM DESIGN LOADING PURPOSES ONLY. EACH SIGNAL HEAD SHALL WEIGH 36 Kg (80 lb) AND HAVE A PROJECTED AREA OF 1.37 sq. m (14.7 sq ft.).
- PHOTO ELECTRIC CELL IS TO BE MOUNTED ABOVE CABINET DOOR.
- THE SIGN SHALL BE LOCATED AT A MAXIMUM OF 8' FROM CENTER OF SIGN TO POLE.
- SIGN IS TO BE MOUNTED A MINIMUM OF 16' ABOVE PAVEMENT.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL 120 VOLT SYSTEM AND CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN

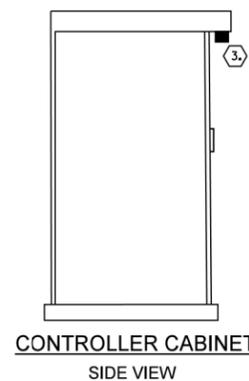
All dimensions are in millimeters (inches) unless otherwise shown.

TITLE: BRACKET, FREE-SWINGING MAST ARM SIGN W/BAND MOUNT MINI-BRAC



ITEM	PART NO.	DESCRIPTION	QTY
1	FS-3205-SS	SCREW, SET SO HD 1/4"-20 x 5/8", STAINLESS	2
2	AB-0266-MI	CLAMP, MINI-BRAC BAND MOUNT, 1/2" NPS, ALUM	2
3	FS-6201-ZNI	PIN, GROOVE 3/16" x 1 1/4", ZINCI	2
4	AB-0244-SS	CLAMP, BAND 5/8", STAINLESS	2
5	AB-0243-L	BAND, 5/8", STAINLESS	2
6	FS-3202-SS	SCREW, SET SOC HD 5/16"-18, STAINLESS	2
7	AB-0303-GLV	KIT, CLAMP SCREW FOR MINI-BRAC, GALV	2
8	SE-0371-MI	ADAPTER, SPAN WIRE, DIE CAST ALUM W/ SS INSERT	2
9	SE-0464-M2	CLEVIS-CLEVIS, 1/2" x 1/2", ALUM W/ STAINLESS BUSHINGS	2
10	FS-1001-SS	NUT, HEX HD 5/16", STAINLESS	8
11	FS-4201-SS	WASHER, SPLIT LOCK, 5/16", STAINLESS	8
12	SE-0508-M2	EXTENDER CONNECTOR HANGER, ALUM W/ STAINLESS BUSHINGS	2
13	SE-0507-11	EXTENDER, 11"	2
14	SE-0512-MI	HANGER, TRI-STUD, ALUM	2
15	SE-5048-SS	HARDWARE KIT W/ GASKET, 5/16" - 18, STAINLESS	2
16	FS-6000-GLV	PIN, CLEVIS, 5/8" x 2 1/4" EL, GALV	4
17	FS-6100-SS	PIN, COTTER HUMPED, 5/32" x 1.775" 304 STAINLESS	4
18	FS-2006-SS	BOLT, HEX HD, 5/16" - 18 x 1", STAINLESS	4
19	FS-2019-SS	BOLT, HEX HD, 5/16" - 18 x 1 1/4", STAINLESS	4
20	FS-6516-SS	CONNECTOR, THREADED, 3/16" x 1-1/2", STAINLESS	2
21		EYE HOOK, STAINLESS STEEL (RATED FOR APPROPRIATE LOAD)	2
22		CARABINER HOOK, STAINLESS STEEL (RATED FOR APPROPRIATE LOAD)	2
23	SH-1867-L	CABLE, SAFETY, FOR SIGN HANGERS, STAINLESS	2
	FS-9054-SS	SLEEVE, COMPRESSION, OVAL, STAINLESS	4
	FS-5101-SS	WIRE ROPE, 3/16" x 7 x 19, AIRCRAFT, TYPE 304 STAINLESS	2
	FS-6516-SS	CONNECTOR, THREADED, 3/16" x 1-1/2", STAINLESS	2
	Z-2042	INSTRUCTIONS, SAFETY CABLE FOR SIGN HANGERS	2

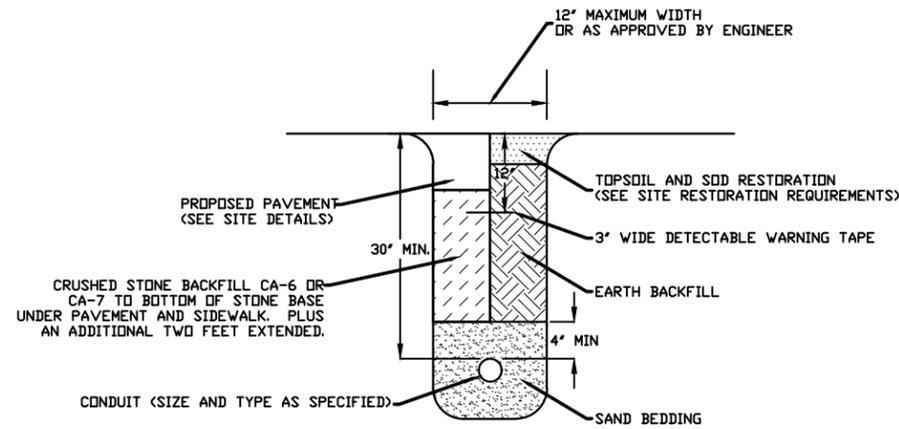
LED SIGN BRACKET DETAIL



CONTROLLER CABINET SIDE VIEW

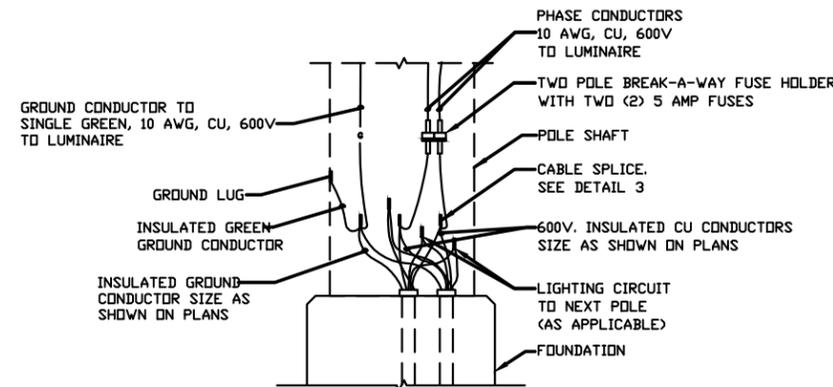
COMPUTED: XX	REVISIONS	DATE
DRAWN: XXX		MM/DD/YR
CHECKED: XX		

STANDARD
ILLUMINATED STREET NAME SIGN MOUNTING DETAIL



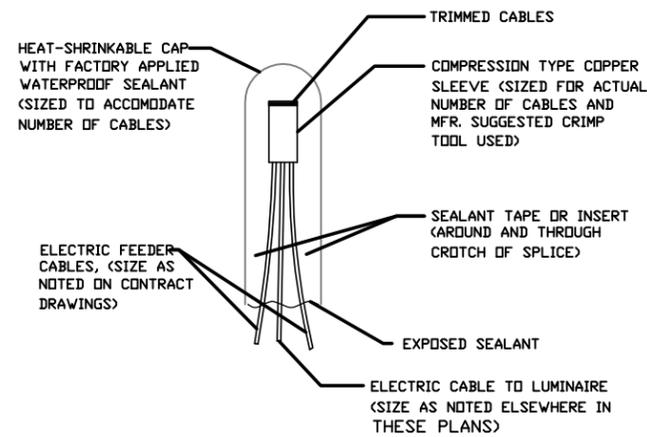
1 TYPICAL CONDUIT IN TRENCH DETAIL
NO SCALE

- NOTES:
1. CONDUIT SHALL BE SURROUNDED BY 4" OF COMPACTED SAND.
 2. BACKFILL SHALL BE PLACED AND COMPACTED IN 8" LIFTS
 3. EARTH BACKFILL SHALL BE COMPACTED TO 95% OF THE DENSITY OF SURROUNDING UNDISTURBED SOIL.



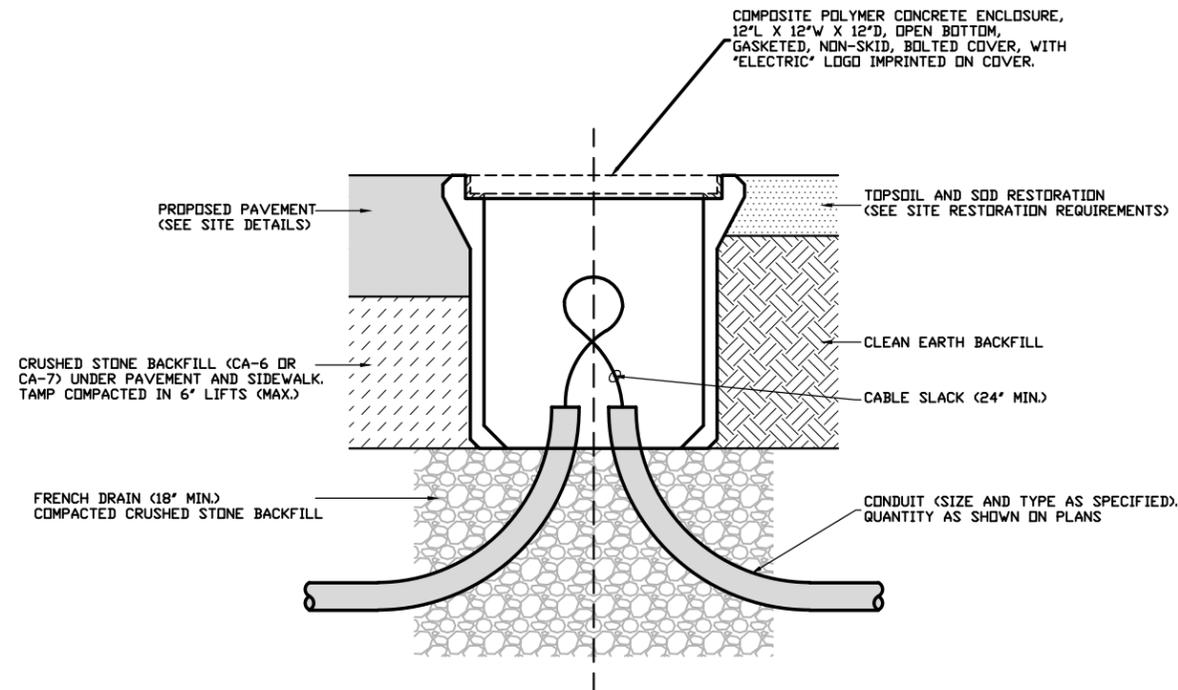
2 POLE BASE WIRING DIAGRAM
NO SCALE

- NOTES:
1. ALL FUSE HOLDERS SHALL INCLUDE BOOTS



3 SPLICING ELECTRIC CABLES
BASIC MATERIALS AND METHODS
NO SCALE

- NOTES:
1. THE NUMBER OF CABLES IN SPLICE MAY VARY



4 COMPOSITE HANDHOLE DETAIL
NO SCALE

- NOTES:
1. HANDHOLE SHALL BE UL LISTED (OR EQUIVALENT)
 2. EARTH BACKFILL SHALL BE COMPACTED TO 95% OF THE DENSITY OF SURROUNDING UNDISTURBED SOIL.
 3. HANDHOLE SHALL BE RATED BASED ON APPLICATION AND LOCATION:
 - A. GRASS OR PARKWAY WITH NO VEHICULAR TRAFFIC - TIER 5
 - B. SIDEWALK WITH NO VEHICULAR TRAFFIC - TIER 8
 - C. DRIVEWAY OR PARKING LOT WITH OCCASIONAL VEHICULAR TRAFFIC - TIER 22
 - D. DELIBERATE VEHICULAR TRAFFIC - AASHTO H-20

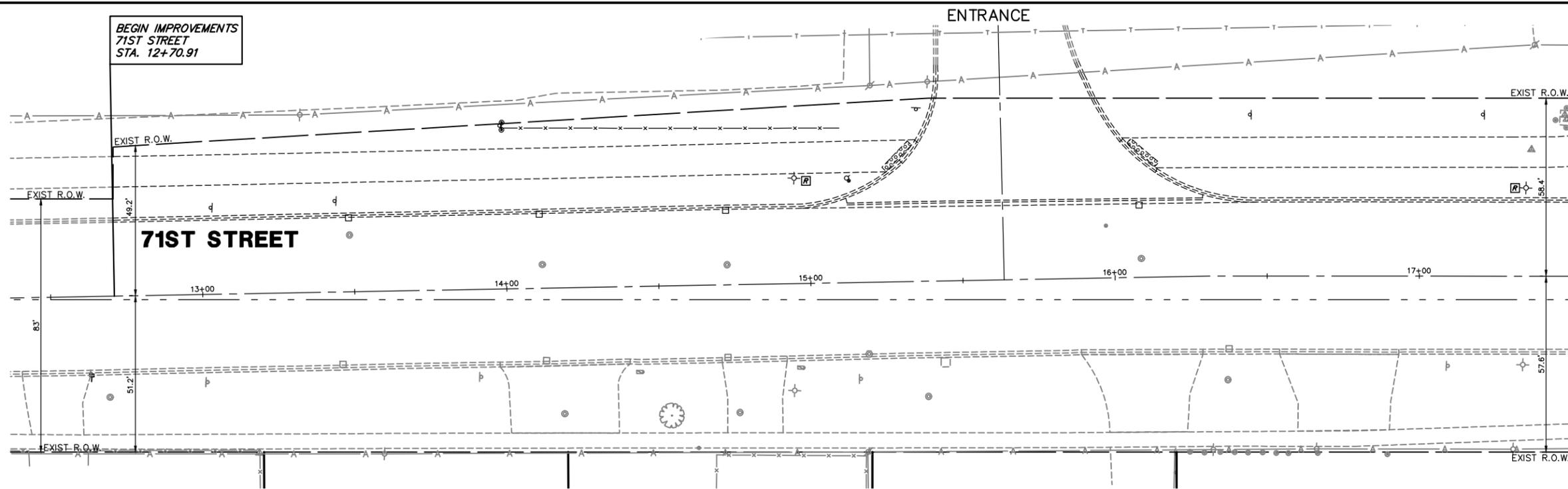
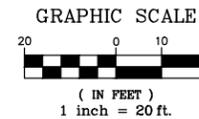
GENERAL LIGHTING NOTES:

1. THE OWNER OF THE PROPOSED LIGHTING SYSTEM SHALL BE THE VILLAGE OF BEDFORD PARK.
2. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND ANY APPLICABLE LOCAL CODES. IF DISCREPANCIES EXIST THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER TO DETERMINE THE PROPER COURSE OF ACTION.
3. ALL PAY ITEMS REFER TO IDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
4. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE EXISTING TRAFFIC SIGNAL CABLES AND CONDUITS.
5. CONDUIT SHALL BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES.
6. CARE SHALL BE TAKEN NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, DETECTORS, AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUIT AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE COUNTY, STATE, OR VILLAGE.
7. ALL DISTURBED AREAS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE WORK WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST OF THE APPLICABLE PAY ITEMS.
8. ALL PROPOSED LIGHT POLES SHALL SATISFY IDOT'S MINIMUM SETBACK REQUIREMENTS.
9. THE CONTRACTOR SHALL MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR VERIFICATION AND APPROVAL BY THE ENGINEER, PRIOR TO STARTING WORK.
10. IF LIGHTS ARE POSITIONED NEAR OVERHEAD UTILITIES, THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY FOR LOCATION APPROVAL.
11. ALL GALVANIZED STEEL CONDUIT TERMINATIONS WITHIN POLE BASES, HANDHOLES, AND CABINETS SHALL INCLUDE RIGID INSULATED GROUNDING BUSHINGS WITH WIRE BONDING JUMPERS.
12. UNLESS OTHERWISE NOTED, ALL CONVENTIONAL POLES SHALL BE FRANGIBLE WITH TRANSFORMER BASES.
13. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL A STORAGE LOCATION AND ALL PERTINENT SUBMITTALS HAVE BEEN APPROVED BY THE ENGINEER.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL REMAIN WITH THE CONTRACTOR.
15. CONTRACTOR SHALL COORDINATE ALL SERVICE CONNECTIONS WITH THE LOCAL UTILITY COMPANY.
16. THE ELECTRICAL SUPPLY SHALL BE A PROPERLY GROUNDED AC SYSTEM.
17. ALL FOUNDATIONS SHALL BE EQUIPPED WITH A GROUNDING ROD.
18. GROUNDING CONNECTIONS AT THE FOUNDATIONS SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO POURING LIGHT POLE FOUNDATION.
19. THE GROUNDING CONDUCTOR SHALL BE INSULATED.
20. THE GROUNDING CONDUCTOR SHALL EXTEND CONTINUOUSLY WITH ALL CIRCUIT CONDUCTORS, IN THE SAME RACEWAY, AND SHALL BE BONDED TO THE SYSTEM GROUND AT THE CONTROLLER.
21. THE GROUNDING CONDUCTOR SHALL BE SPliced AND BONDED AT EACH POLE.
22. THE GROUNDING CONDUCTOR SHALL BE SPliced AND BONDED TO METAL HANDHOLE'S FRAMES AND LIDS.
23. ALL CONDUCTORS AND EQUIPMENT SHALL HAVE PROPER OVERCURRENT PROTECTION. OVERCURRENT PROTECTION SHALL BE PROVIDED FOR EACH LUMINAIRE AND ITS ASSOCIATED BRANCH CIRCUIT THROUGH THE USE OF POLE BASE FUSING, OR OTHER MEANS AS APPROVED BY THE ENGINEER.
24. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
25. POLES WITH MAST ARMS SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES, AND THE PROPOSED LIGHT POLES WILL NOT BE CONSIDERED COMPLETE WITHOUT THE LUMINAIRES INSTALLED.
26. UPON COMPLETION OF THE PERMANENT LIGHTING SYSTEM, THE CONTRACTOR SHALL REQUEST IN WRITING A PREFINAL INSPECTION. A MINIMUM OF THREE DAYS NOTICE SHALL BE GIVEN TO THE AGENCY WITH JURISDICTION OF OVER THE PROPOSED LIGHTING. UPON COMPLETION OF INSPECTION AND APPROVAL OF WORK, THE LOCAL AGENCY/IDOT SHALL TAKE MAINTENANCE OF THE LIGHTING SYSTEM.
27. THE PROPOSED LIGHTING SYSTEM SHALL BE TESTED ACCORDING TO THE SPECIAL PROVISIONS. THE ELECTRICAL CABLES SHALL BE MEG TESTED PRIOR TO CONNECTING THE LED LUMINAIRES.

FILE NAME = 5102.810-LT.dwg	USER NAME = MARK COBB	DESIGNED - MGFC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING GENERAL NOTES 71ST STREET ROADWAY IMPROVEMENTS			FA RTE 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 47
PLOT SCALE = 1" = .1667'		DRAWN - ZCW	REVISED -		SCALE 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT # 61J45		
PLOT DATE = 2/13/2023		CHECKED - MGFC	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 2/14/2023	REVISED -									

BEGIN IMPROVEMENTS
71ST STREET
STA. 12+70.91

ENTRANCE

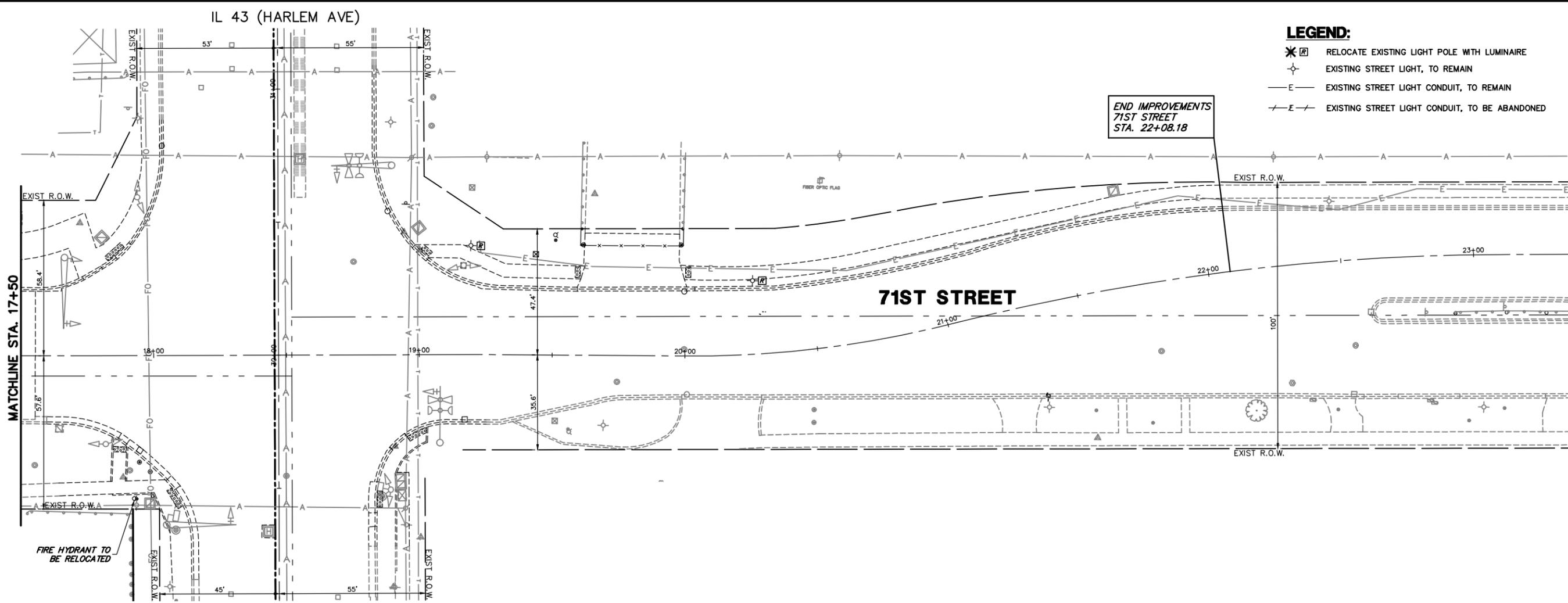


IL 43 (HARLEM AVE)

LEGEND:

- RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE
- EXISTING STREET LIGHT, TO REMAIN
- EXISTING STREET LIGHT CONDUIT, TO REMAIN
- EXISTING STREET LIGHT CONDUIT, TO BE ABANDONED

END IMPROVEMENTS
71ST STREET
STA. 22+08.18



GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX (847) 782-0700

FILE NAME = 5102.810-LT.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 2/13/2023

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL PLAN
 71ST STREET ROADWAY IMPROVEMENTS**

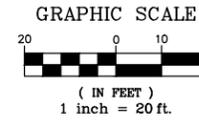
SCALE 1"=20' SHEET NO. OF SHEETS STA. TO STA.

FA RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	48
			CONTRACT #: 61J45	
ILLINOIS FED. AID PROJECT				

BEGIN IMPROVEMENTS
71ST STREET
STA. 12+70.91

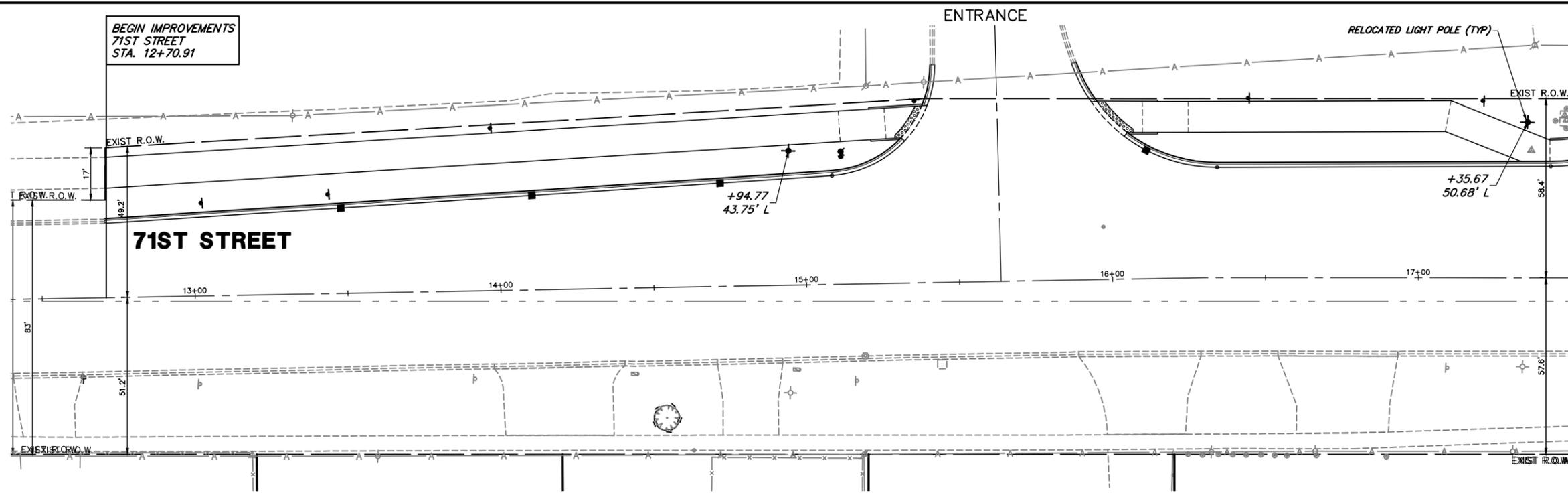
ENTRANCE

RELOCATED LIGHT POLE (TYP)



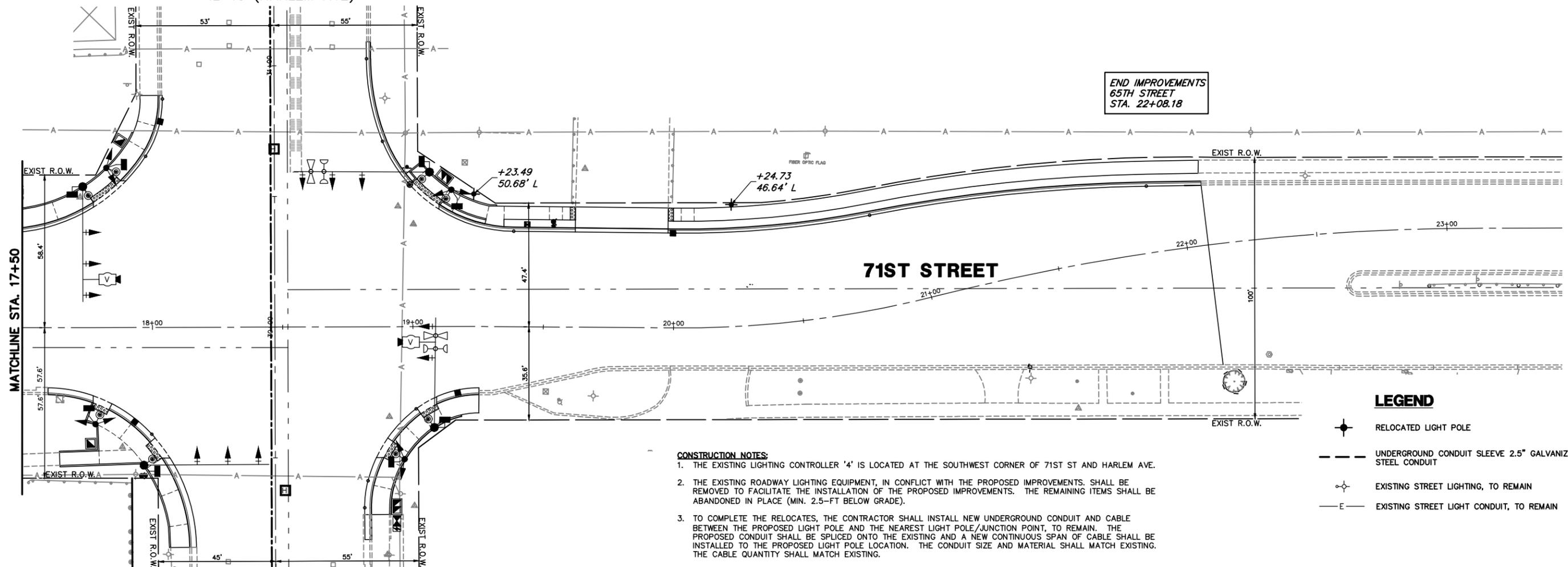
PLAN NOTES:

- NO LIGHTING REMOVAL SHALL OCCUR UNTIL ALL PROPOSED FOUNDATIONS AND UNDERGROUND CONDUIT/CABLE IS INSTALLED AND OPERATIONAL, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- LIGHT POLE RELOCATES SHALL BE STAGED TO PREVENT A LAPSE IN OVERNIGHT LIGHTING.
- LANDSCAPE RESTORATION WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE APPLICABLE PAY ITEMS.
- SIDEWALK, PAVEMENT, DRIVEWAY, CURB, AND MEDIAN REMOVAL AND REPLACEMENT SHALL BE LIMITED TO THE AREA NECESSARY TO FACILITATE THE INSTALLATION OF THE PROPOSED LIGHTING SYSTEM OR TO RESTORE AREAS WHERE THE EXISTING SYSTEM WAS REMOVED. ALL LIMITS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING WORK.
- ALL SALVAGED MATERIAL SHALL BE DELIVERED TO THE VILLAGE OF BEDFORD PARK'S PUBLIC WORKS FACILITY.
- THE PROPOSED LIGHT POLE LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- SETBACK IS MEASURED FROM THE BACK OF CURB (BOC) TO THE CENTER OF THE LIGHT POLE FOUNDATION.
- UNDERGROUND SPLICING OF CABLES SHALL NOT BE PERMITTED.



IL 43 (HARLEM AVE)

END IMPROVEMENTS
65TH STREET
STA. 22+08.18



LEGEND

- RELOCATED LIGHT POLE
- UNDERGROUND CONDUIT SLEEVE 2.5" GALVANIZED RIGID STEEL CONDUIT
- EXISTING STREET LIGHTING, TO REMAIN
- EXISTING STREET LIGHT CONDUIT, TO REMAIN

CONSTRUCTION NOTES:

- THE EXISTING LIGHTING CONTROLLER '4' IS LOCATED AT THE SOUTHWEST CORNER OF 71ST ST AND HARLEM AVE.
- THE EXISTING ROADWAY LIGHTING EQUIPMENT, IN CONFLICT WITH THE PROPOSED IMPROVEMENTS, SHALL BE REMOVED TO FACILITATE THE INSTALLATION OF THE PROPOSED IMPROVEMENTS. THE REMAINING ITEMS SHALL BE ABANDONED IN PLACE (MIN. 2.5-FT BELOW GRADE).
- TO COMPLETE THE RELOCATES, THE CONTRACTOR SHALL INSTALL NEW UNDERGROUND CONDUIT AND CABLE BETWEEN THE PROPOSED LIGHT POLE AND THE NEAREST LIGHT POLE/JUNCTION POINT, TO REMAIN. THE PROPOSED CONDUIT SHALL BE SPLICED ONTO THE EXISTING AND A NEW CONTINUOUS SPAN OF CABLE SHALL BE INSTALLED TO THE PROPOSED LIGHT POLE LOCATION. THE CONDUIT SIZE AND MATERIAL SHALL MATCH EXISTING. THE CABLE QUANTITY SHALL MATCH EXISTING.
- A 2" GRS SLEEVE SHALL BE INSTALLED ACROSS PAVED SURFACES FOR THE UNIT DUCT CONDUIT. THE WORK SHALL BE PAID FOR UNDER THE CONTRACT PAY ITEM 'UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.'

GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX 847.483.7800
 FAX 847.483.7801

FILE NAME =
5102.810-LT.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 2/13/2023

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

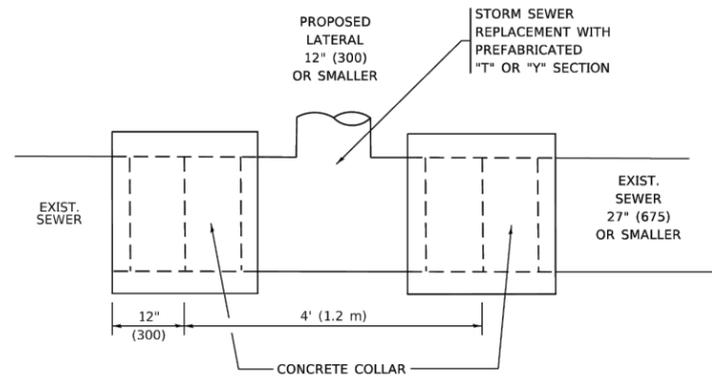
REVISED -
 REVISED -
 REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT LIGHTING PLAN
 71ST STREET ROADWAY IMPROVEMENTS**

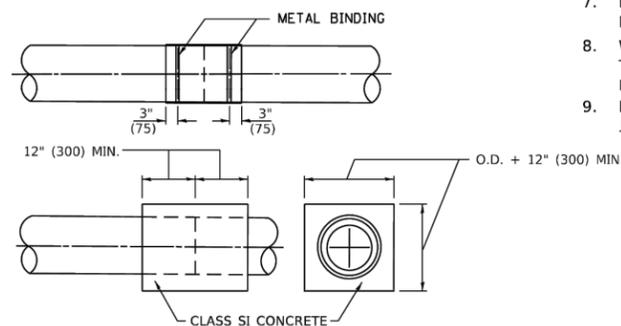
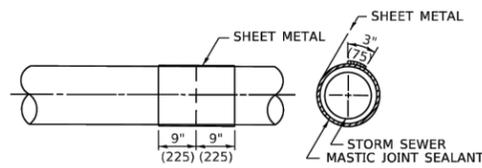
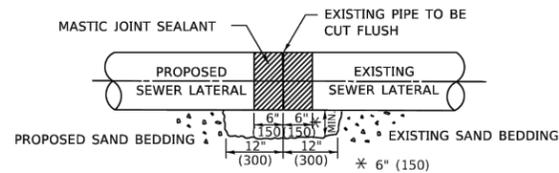
SCALE 1"=20 SHEET NO. OF SHEETS STA. TO STA.

FA RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	49
CONTRACT #:			61J45	
ILLINOIS FED. AID PROJECT				



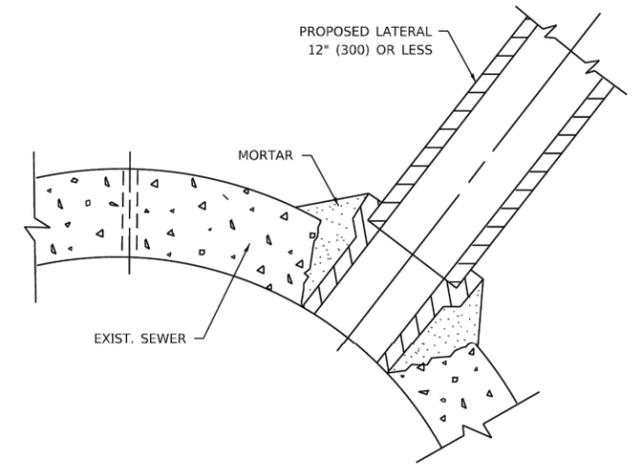
DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



DETAIL "B"

CLASS SI CONCRETE COLLAR



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

- CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
- CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

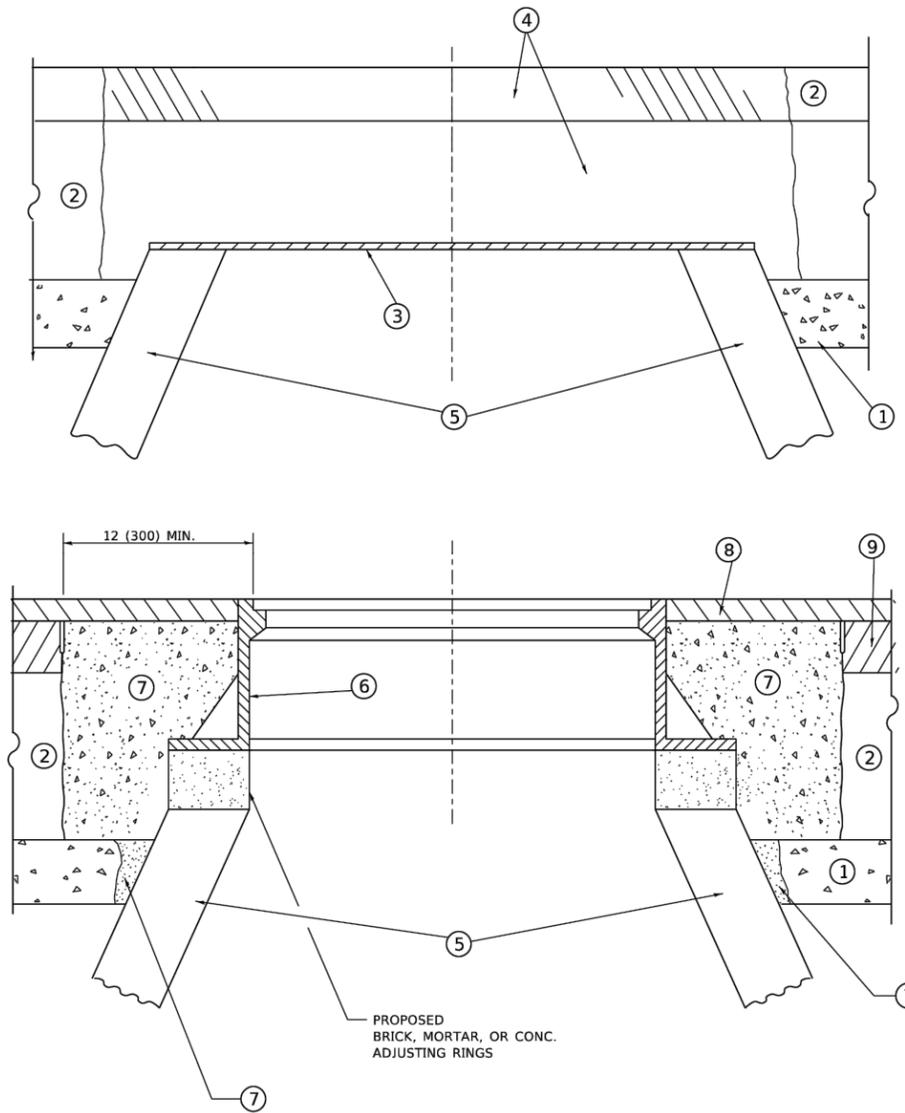
BASIS OF PAYMENT

- TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.
- REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
- TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
- CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

MODEL: D:\p\it FILE NAME: W:\dist\625234\bd07.dgn

FILE NAME = 5102.810-DT.dwg	USER NAME = demanchelt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER	F.A.U. RTE. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 50		
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. SHAH 10-25-94	REVISED - R. SHAH 06-12-96			BD500-01 (BD-07)		CONTRACT NO. 61J45				
PLOT DATE = 2/2/2022	DATE - 07-25-90	REVISED - K. SMITH 02-01-22	SCALE: NONE			SHEET 1	OF 1	SHEETS	STA.	TO STA.		
ILLINOIS FED. AID PROJECT												



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

NOTES

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 12-06-11
	PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

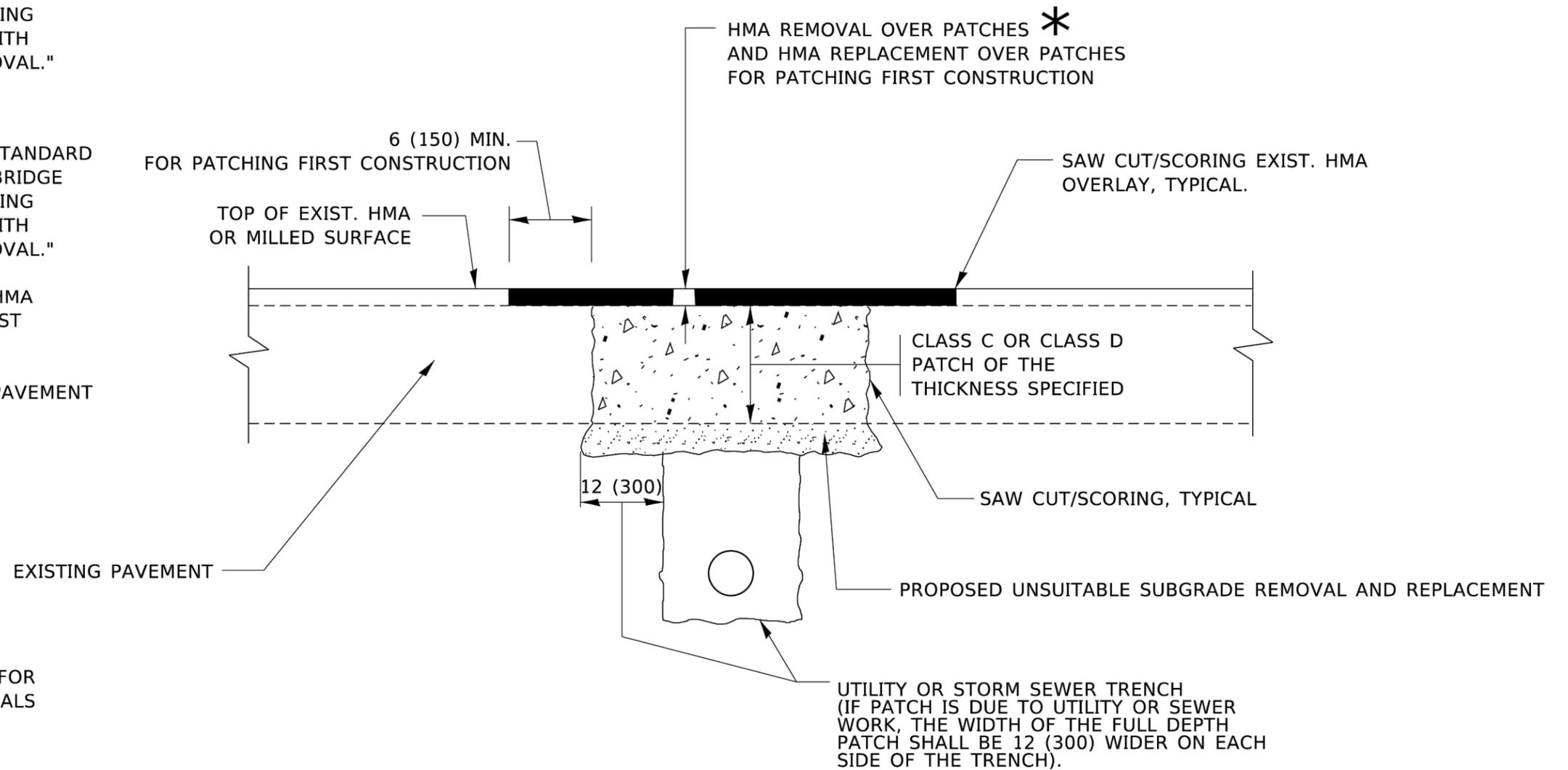
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	51
BD600-03 (BD-08)			CONTRACT NO. 61J45	
ILLINOIS FED. AID PROJECT				

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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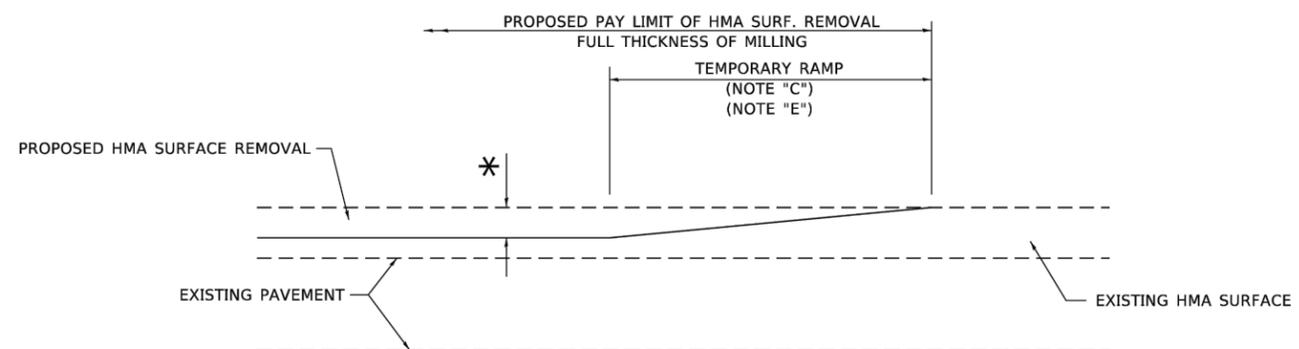
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	PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

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

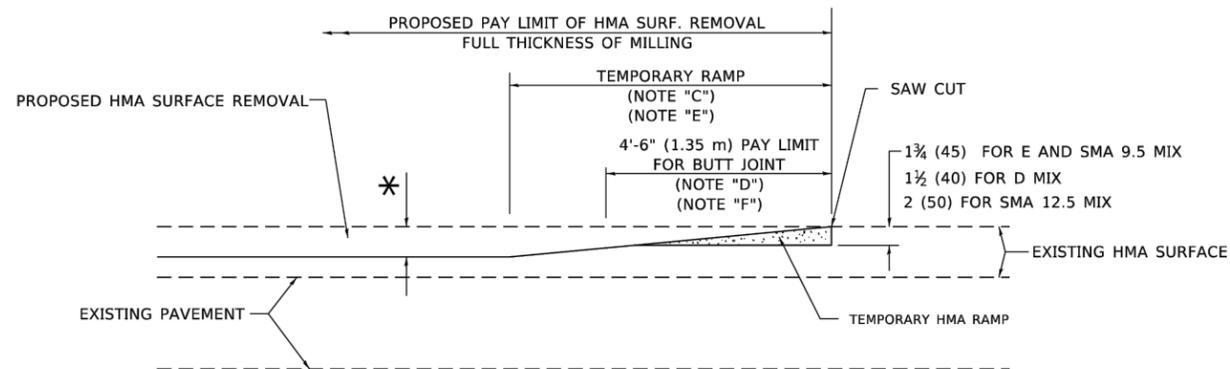
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BD400-04 (BD-22)		CONTRACT NO. 61J45		
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

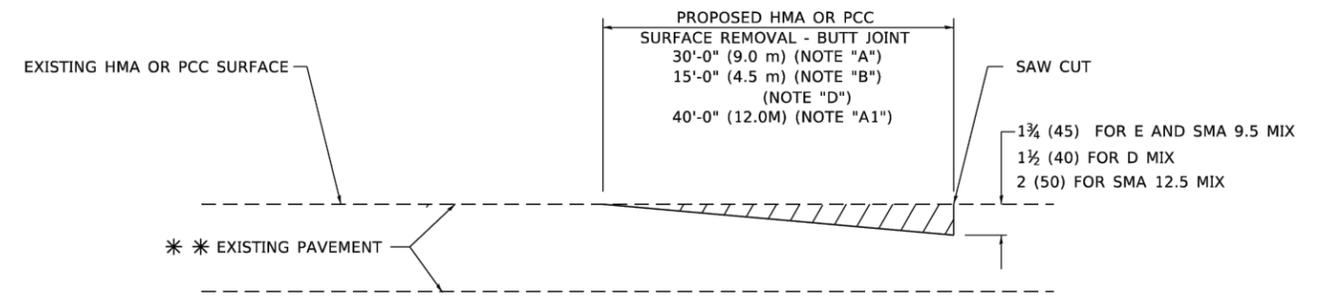


HMA CONSTRUCTED TEMPORARY RAMP

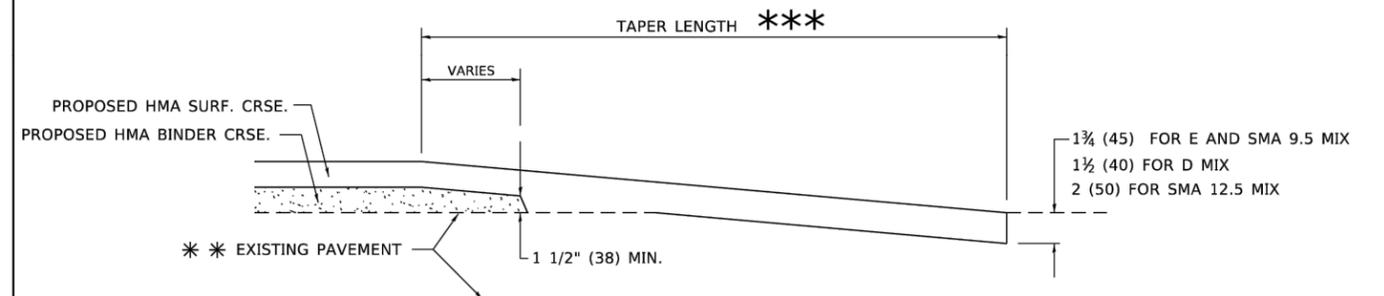
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

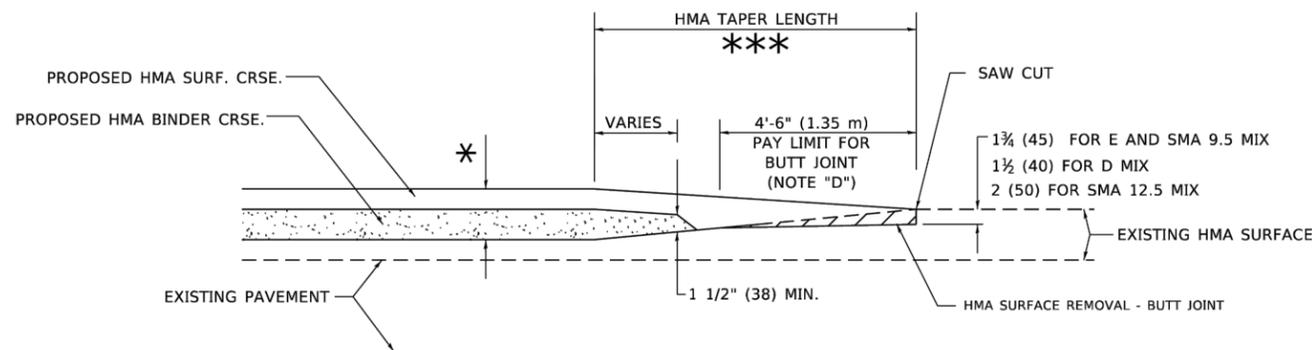
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
 - *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
 - 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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		DRAWN -	REVISED - M. GOMEZ 04-06-01
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

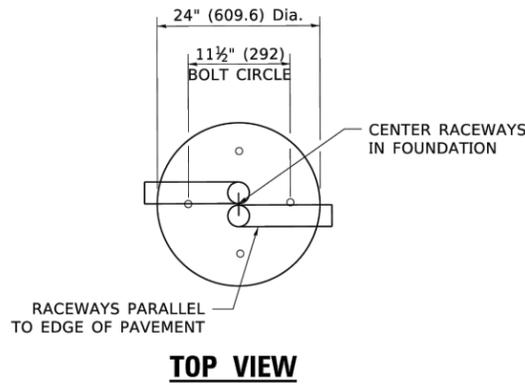
BUTT JOINT AND
HMA TAPER DETAILS

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

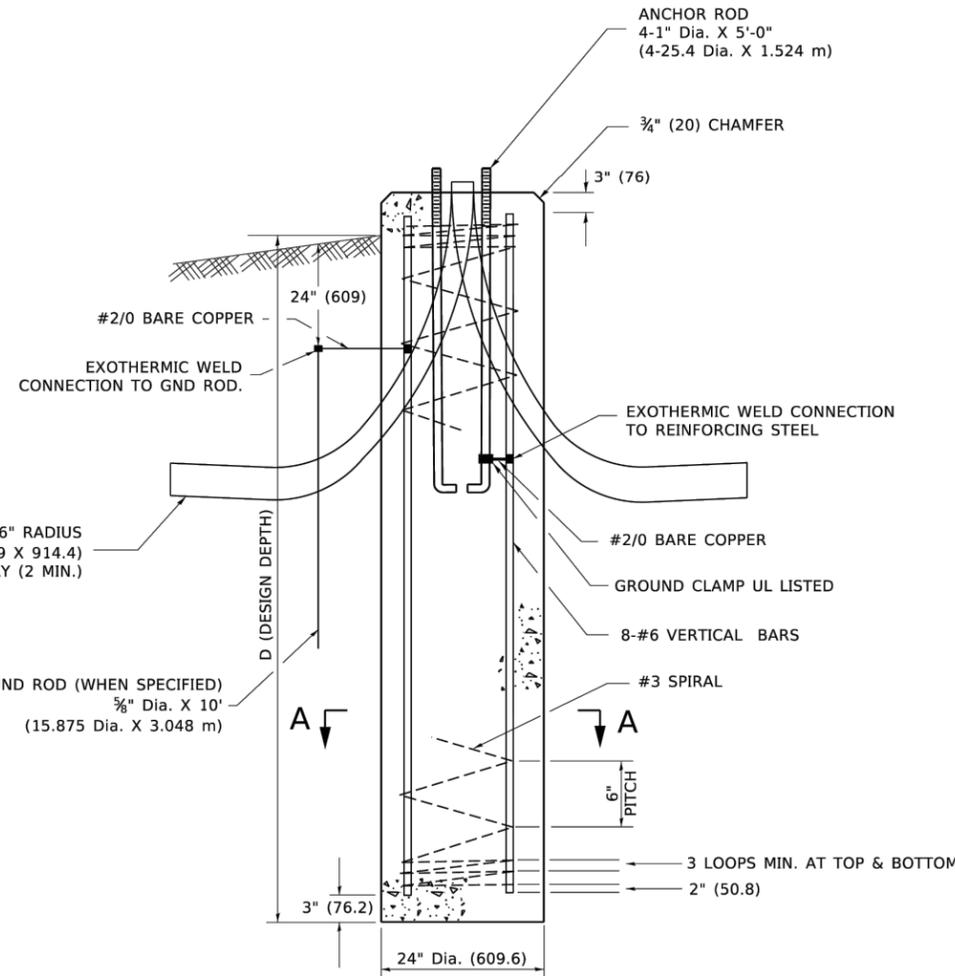
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	53
BD400-05 BD-32		CONTRACT NO. 61J45		
ILLINOIS FED. AID PROJECT				

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY	11'-0"	12'-8"
Qu = 0.375 TON/SQ. FT.	(3.35 m)	(3.85 m)
MEDIUM CLAY	9'-0"	14'-10"
Qu = 0.75 TON/SQ.FT.	(2.74 m)	(4.52 m)
STIFF CLAY	7'-6"	8'-7"
Qu = 1.50 TON/SQ. FT.	(2.29 m)	(2.61 m)
LOOSE SAND	9'-6"	10'-7"
φ = 34°	(2.90 m)	(3.22 m)
MEDIUM SAND	9'-0"	9'-10"
φ = 37.5°	(2.74 m)	(2.99 m)
DENSE SAND	8'-3"	9'-7"
φ = 40°	(2.51 m)	(2.91 m)



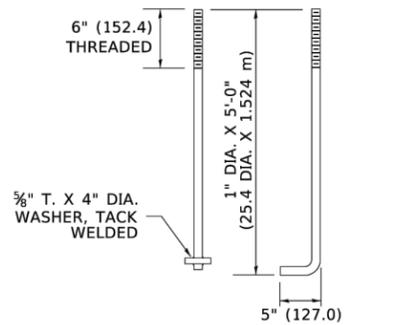
TOP VIEW



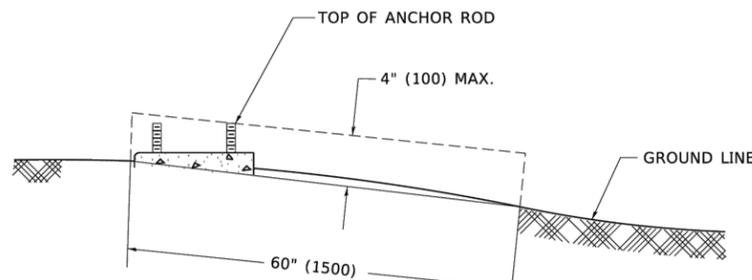
FOUNDATION DETAIL

NOTES

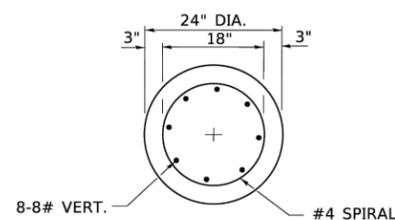
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 23/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



ANCHOR BOLT DETAIL



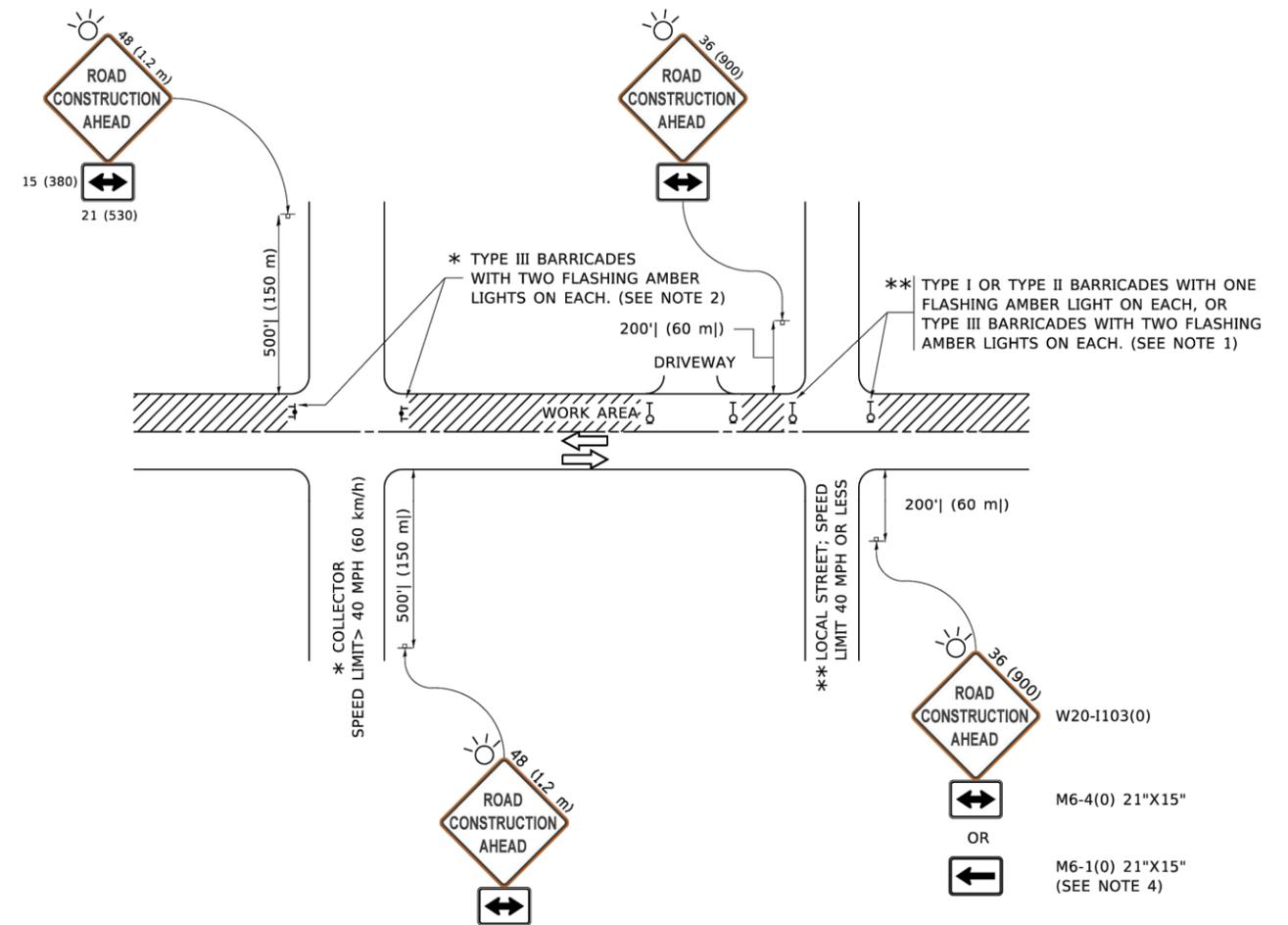
FOUNDATION EXTENSION DETAIL



SECTION A-A

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		DRAWN -	REVISED -		30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE			1537/348	16-00038-00-CH	COOK	65	54
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			BE-300		CONTRACT NO. 61J45		
	PLOT DATE = 4/19/2019	DATE -	REVISED -					ILLINOIS		FED. AID PROJECT		



NOTES:

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

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

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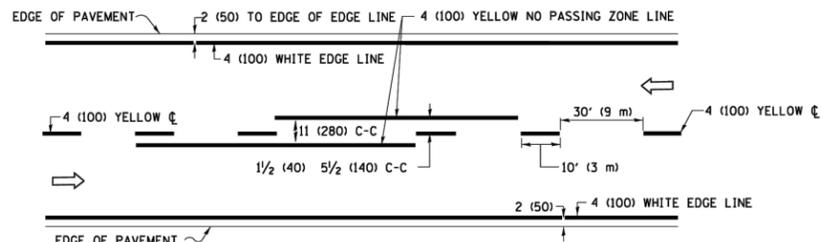
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PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

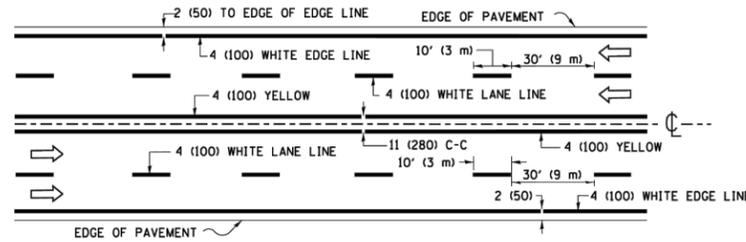
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

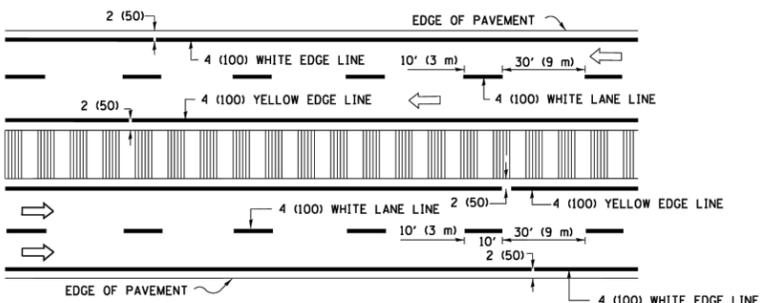
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	55
TC-10			CONTRACT NO. 61J45	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

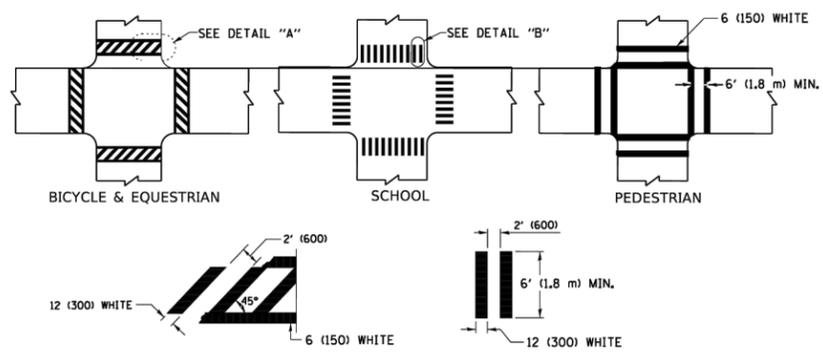


MULTI-LANE UNDIVIDED



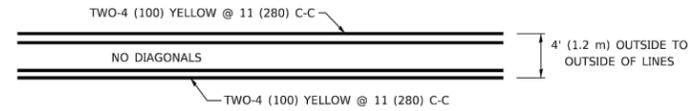
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

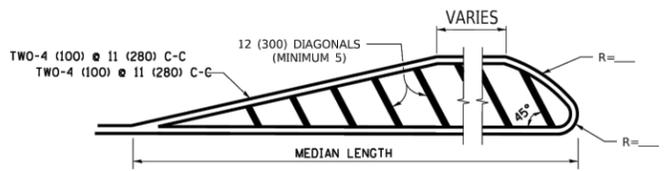


TYPICAL CROSSWALK MARKING

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

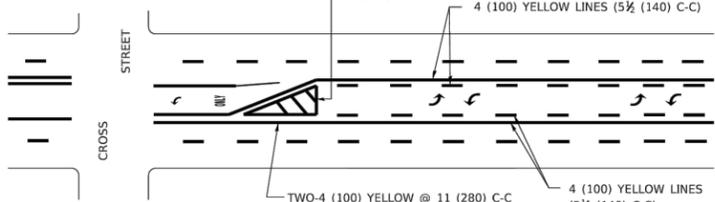


4' (1.2 m) WIDE MEDIANS ONLY



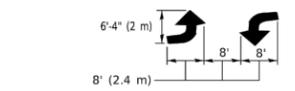
MEDIANS OVER 4' (1.2 m) WIDE

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



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

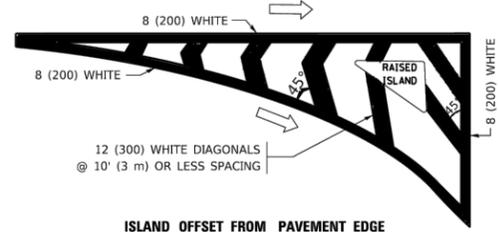
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



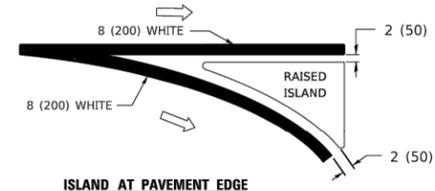
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE 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".

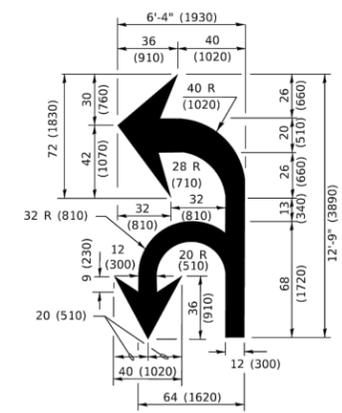


ISLAND OFFSET FROM PAVEMENT EDGE

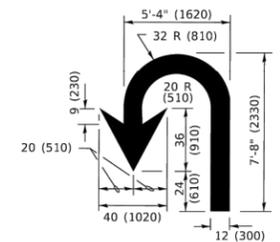


ISLAND AT PAVEMENT EDGE

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	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

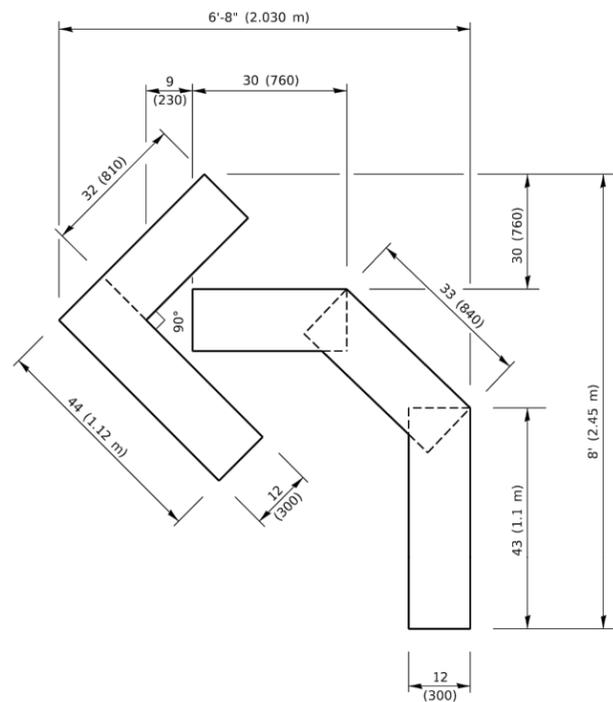
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		DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 50.0000" / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

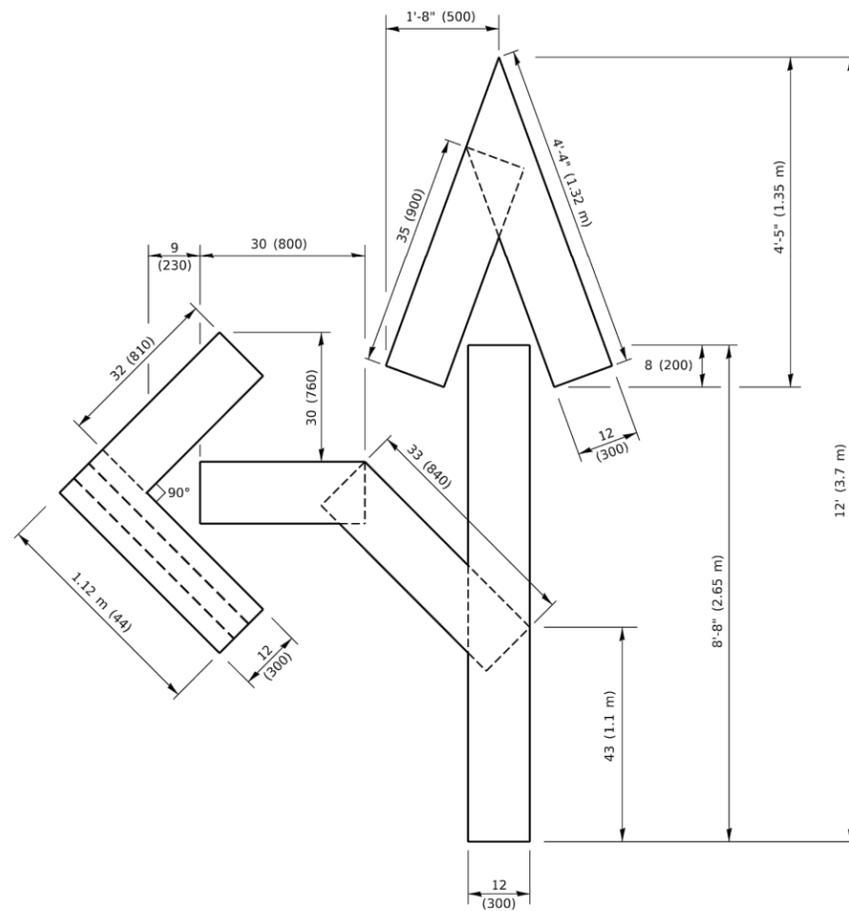
DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.	

F.A.U. RTE. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 56
TC-13		CONTRACT NO. 61J45		
ILLINOIS FED. AID PROJECT				



QUANTITY

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

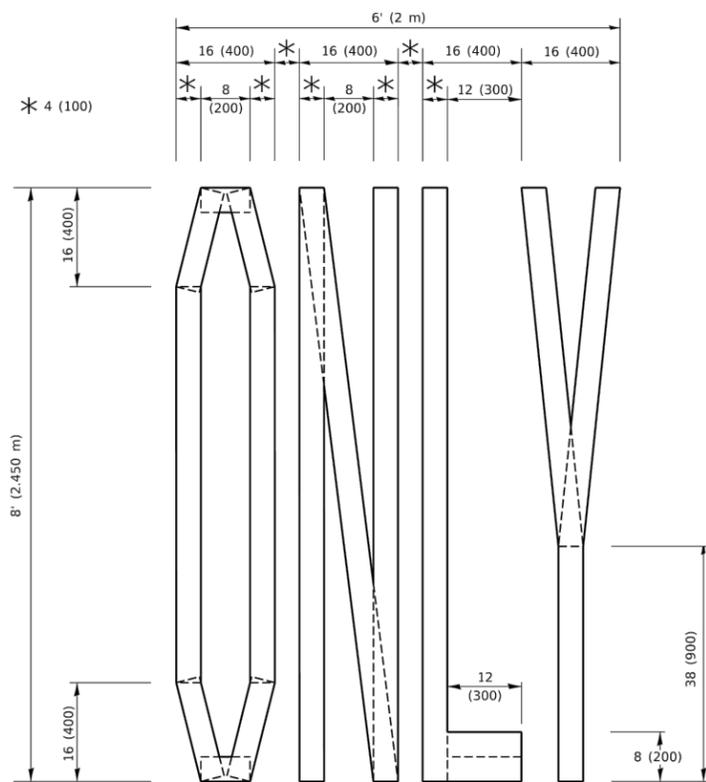


QUANTITY

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

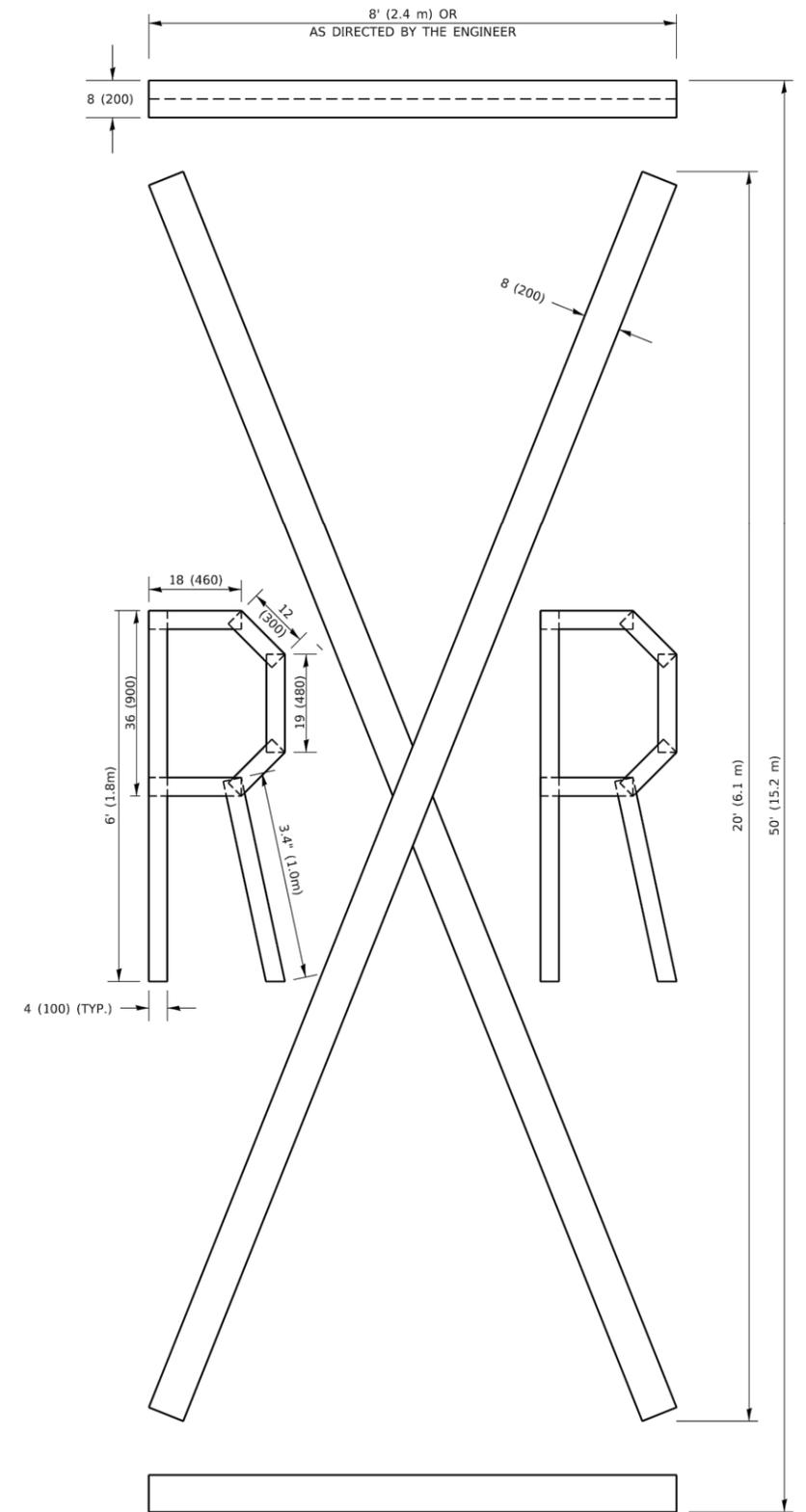
NOTE:

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



QUANTITY

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



QUANTITY

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

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

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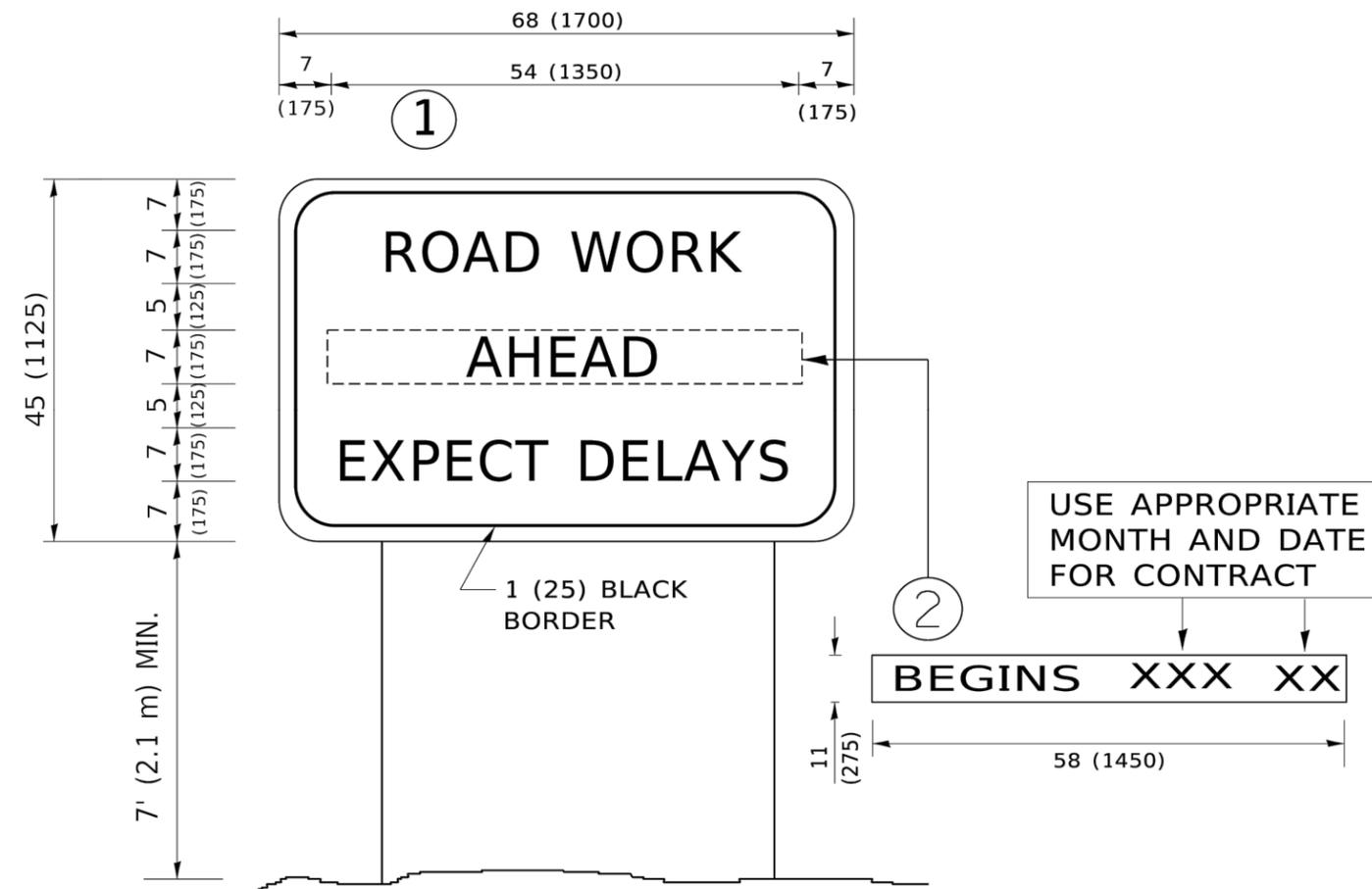
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	PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	58
TC-16			CONTRACT NO. 61J45	
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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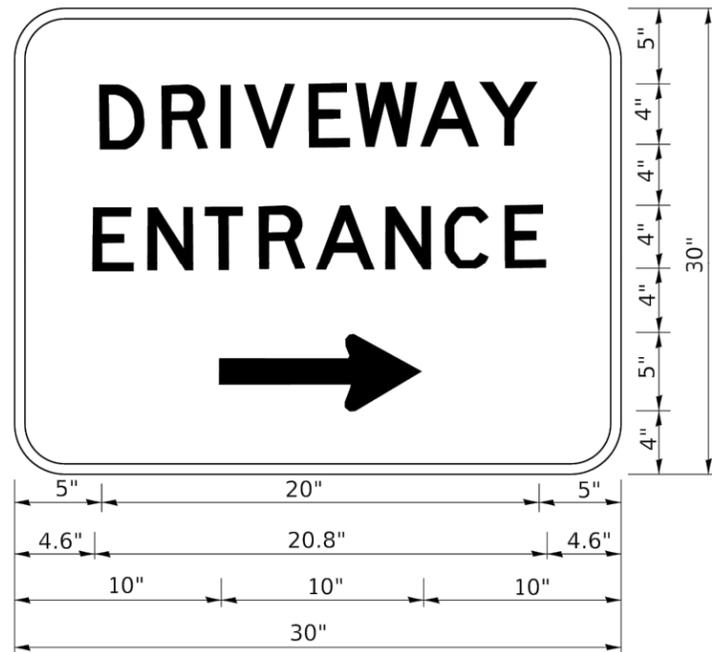
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	PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.U. RTE. 1537/348	SECTION 16-00038-00-CH	COUNTY COOK	TOTAL SHEETS 65	SHEET NO. 59
TC-22			CONTRACT NO. 61J45	
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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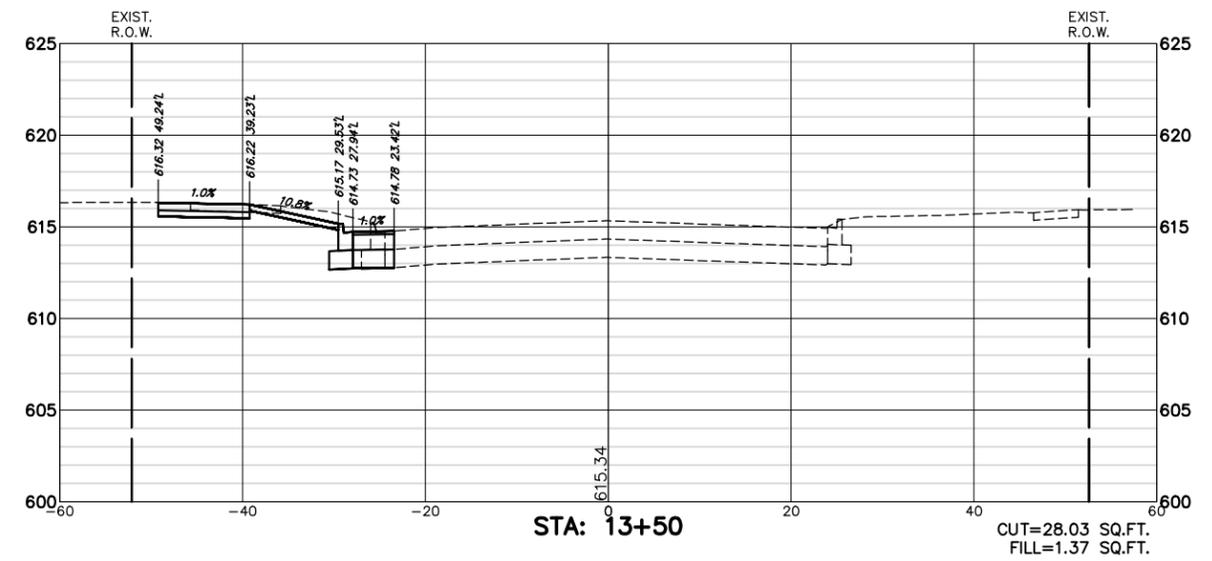
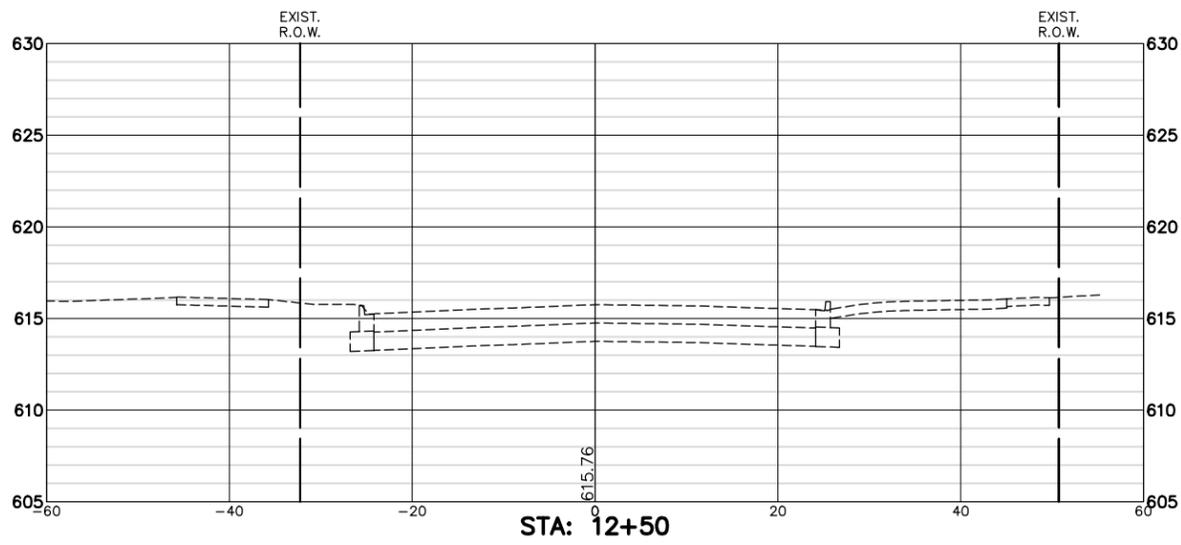
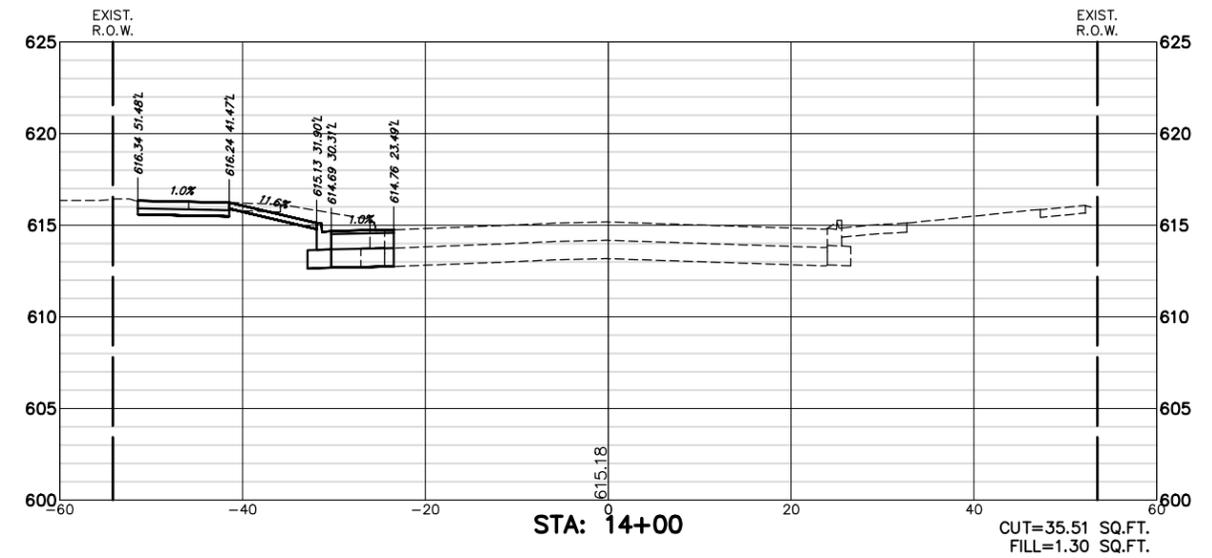
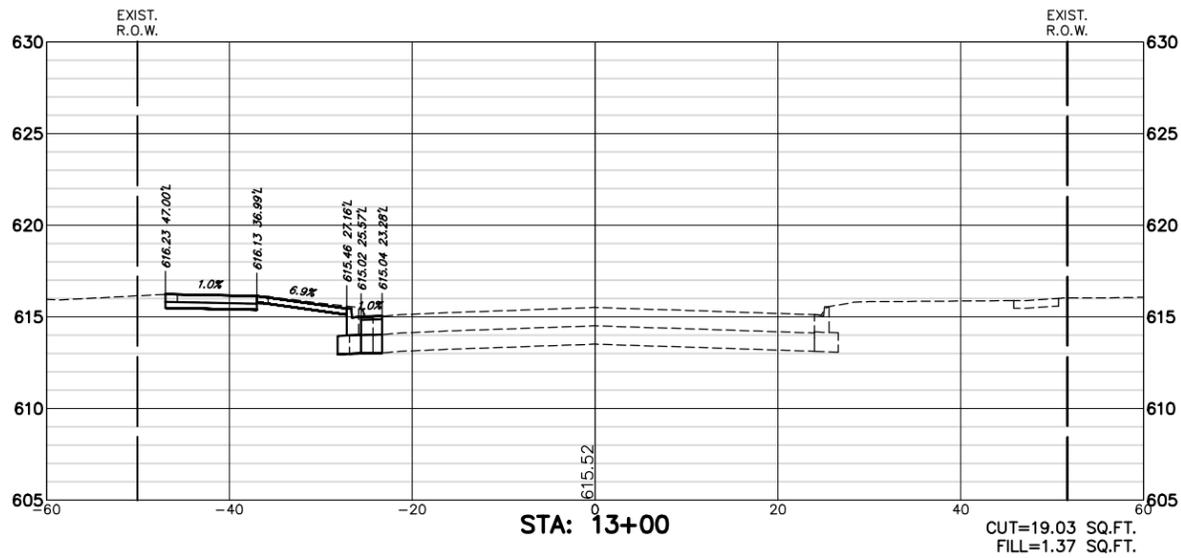
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	PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	60
TC-26			CONTRACT NO. 61J45	
ILLINOIS FED. AID PROJECT				



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PLOT SCALE =	1" = .1667'
PLOT DATE =	11/12/2022

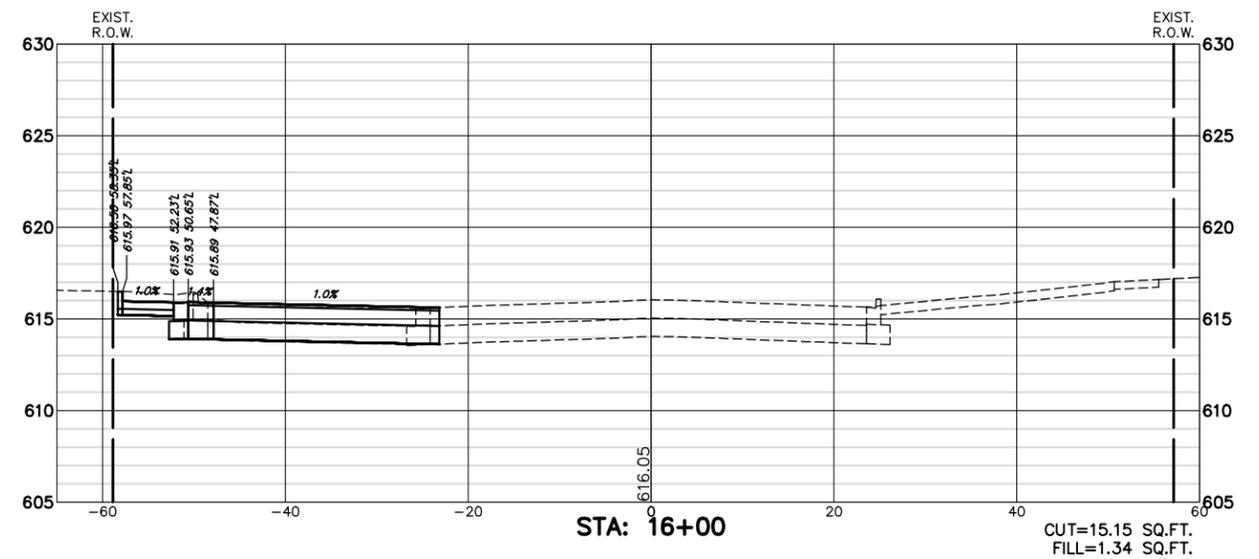
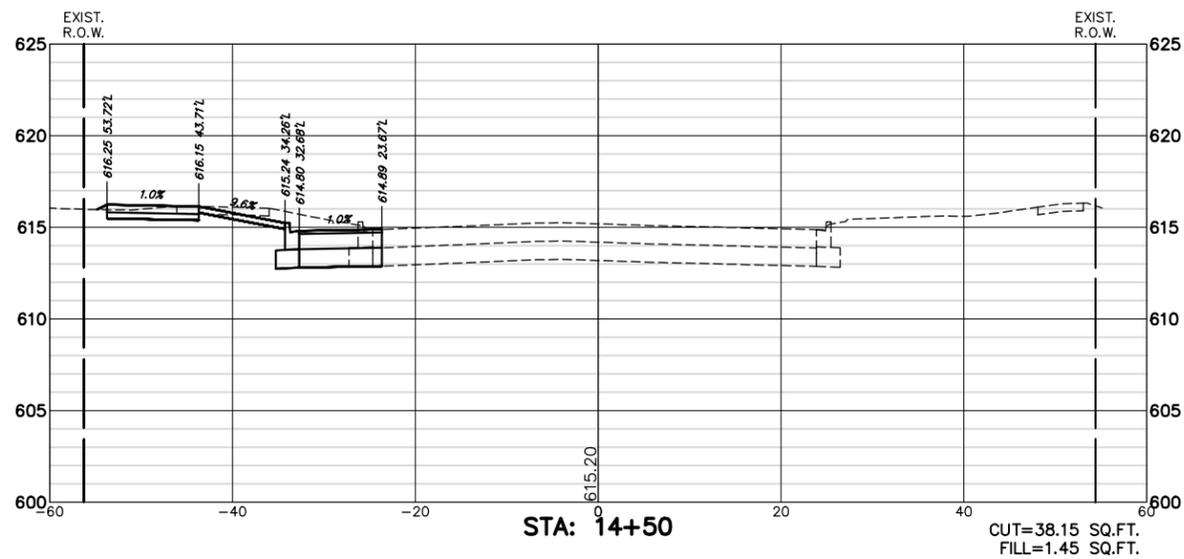
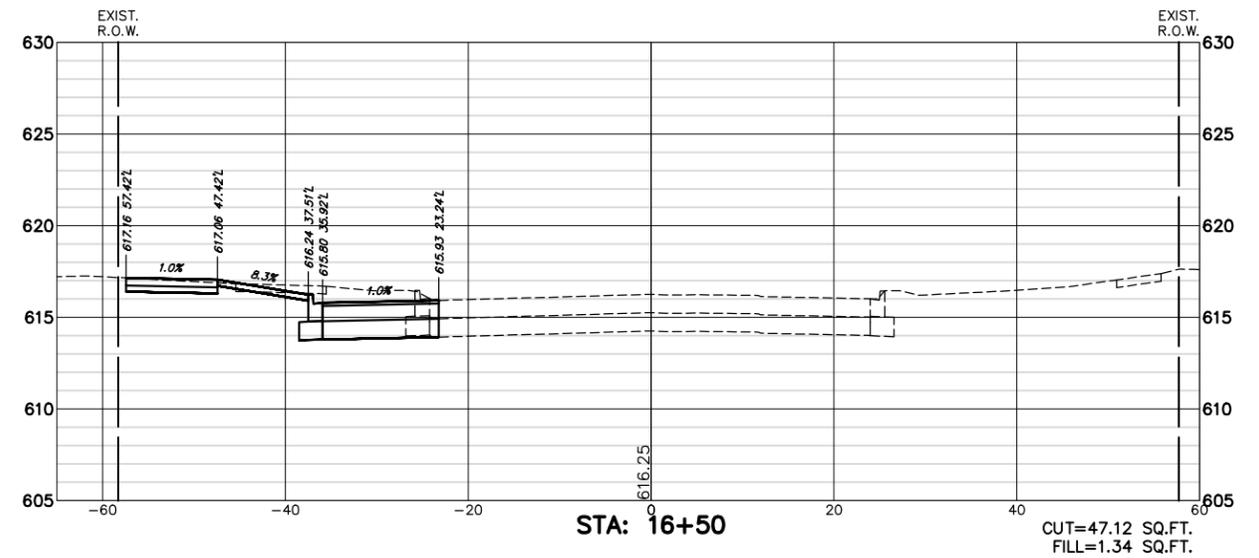
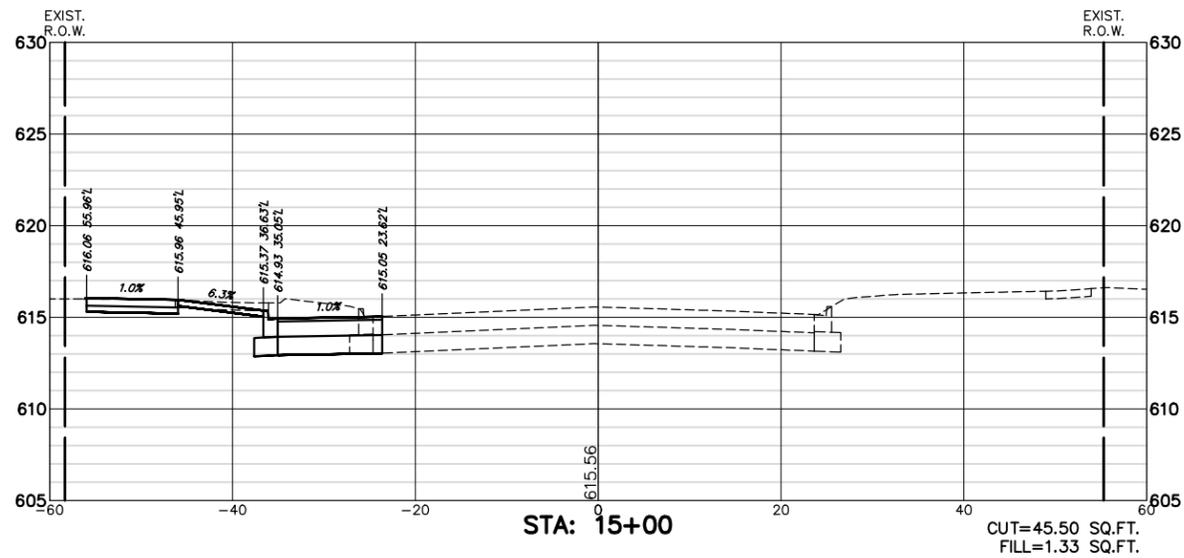
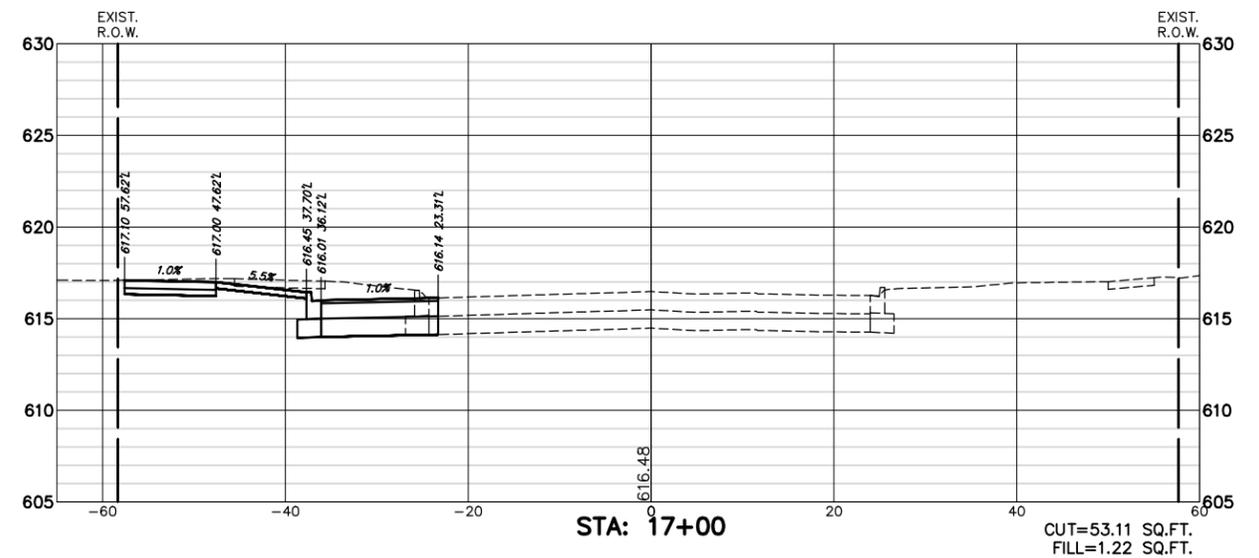
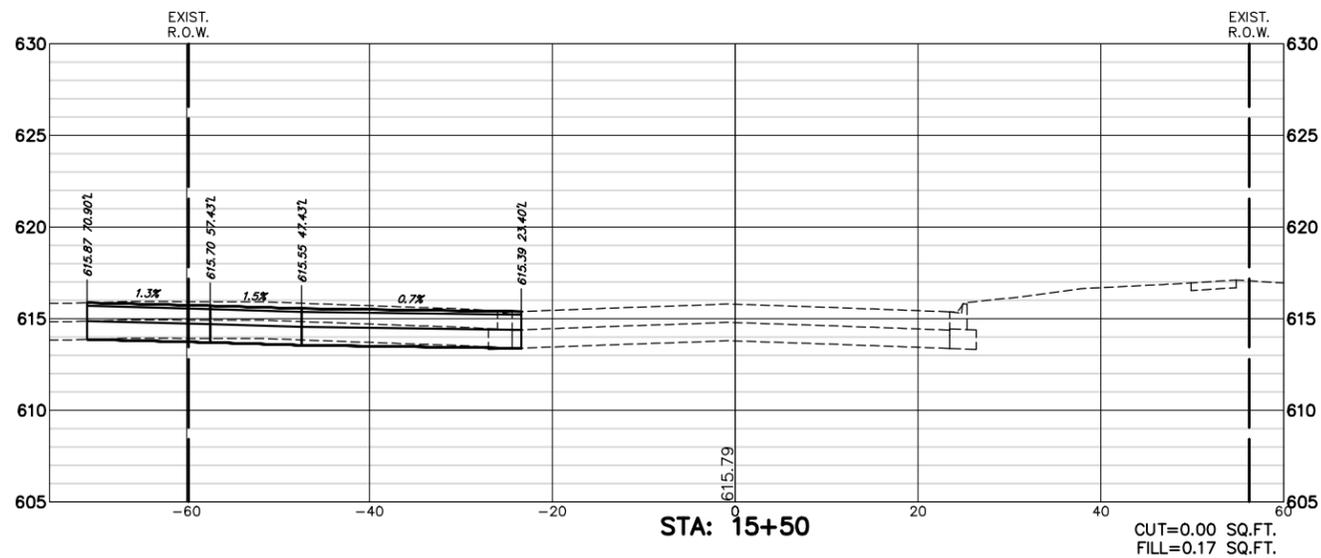
DESIGNED -	MGFC
DRAWN -	ZCW
CHECKED -	MGFC
DATE -	2/14/2023

REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS 71ST STREET ROADWAY IMPROVEMENTS			
SCALE	H:1"=10'; V:1"=5'	SHEET NO.	OF SHEETS
STA.	TO STA.		

FALL/EAR. RTES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	61
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				



GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX: 847.483.0000
 FAX: 847.483.0001

FILE NAME = 5102.810-Xsect.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

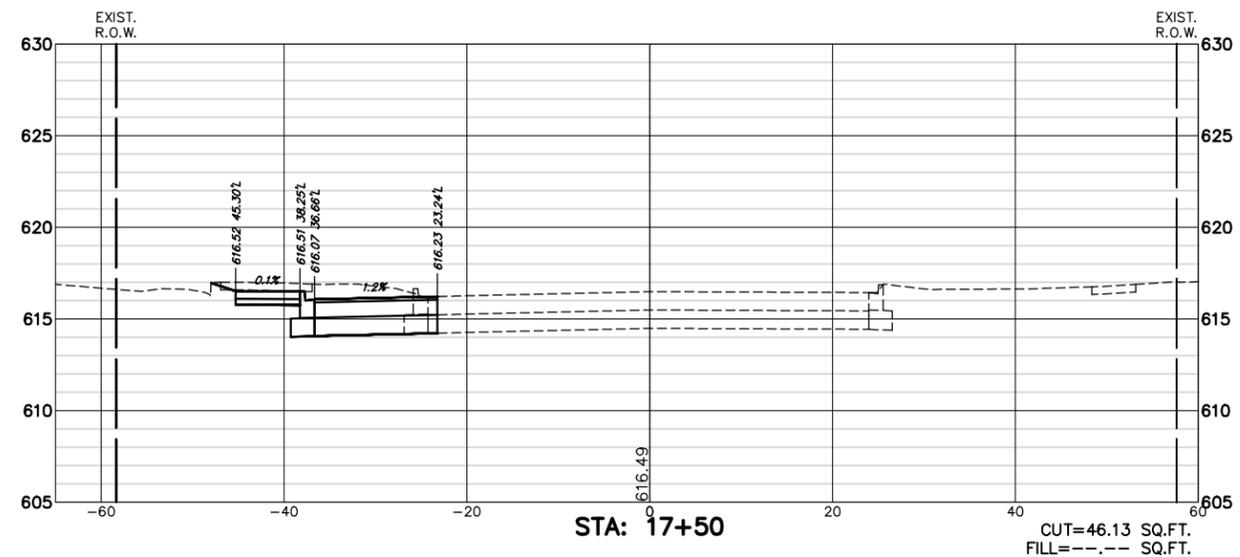
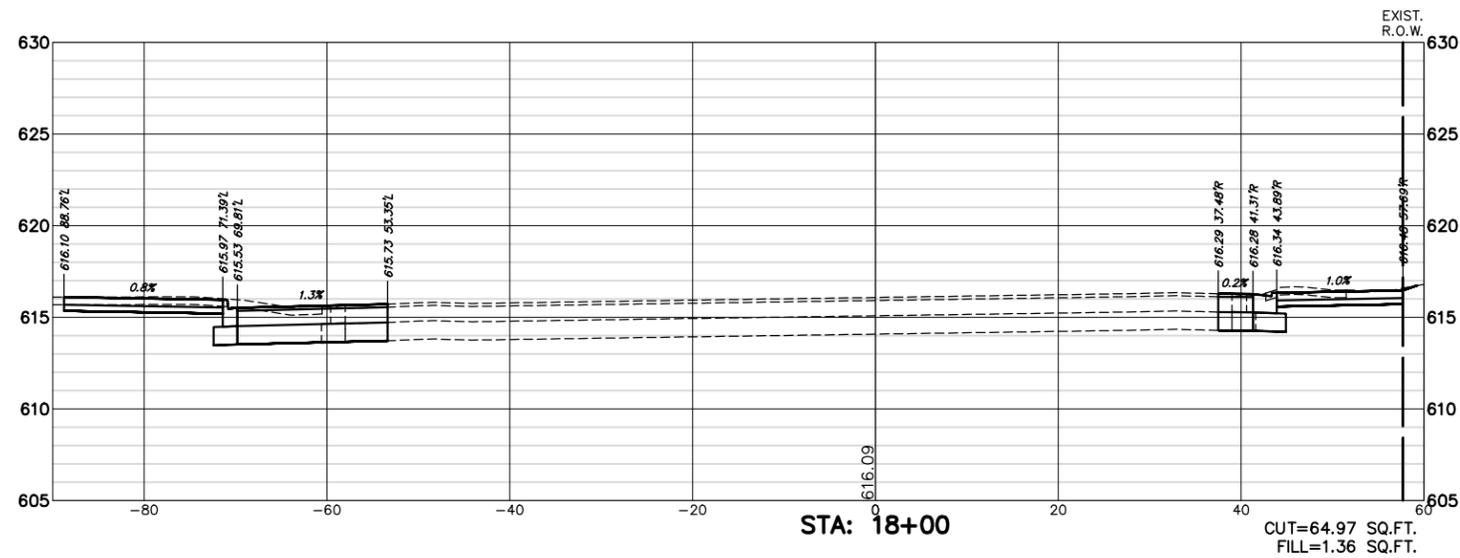
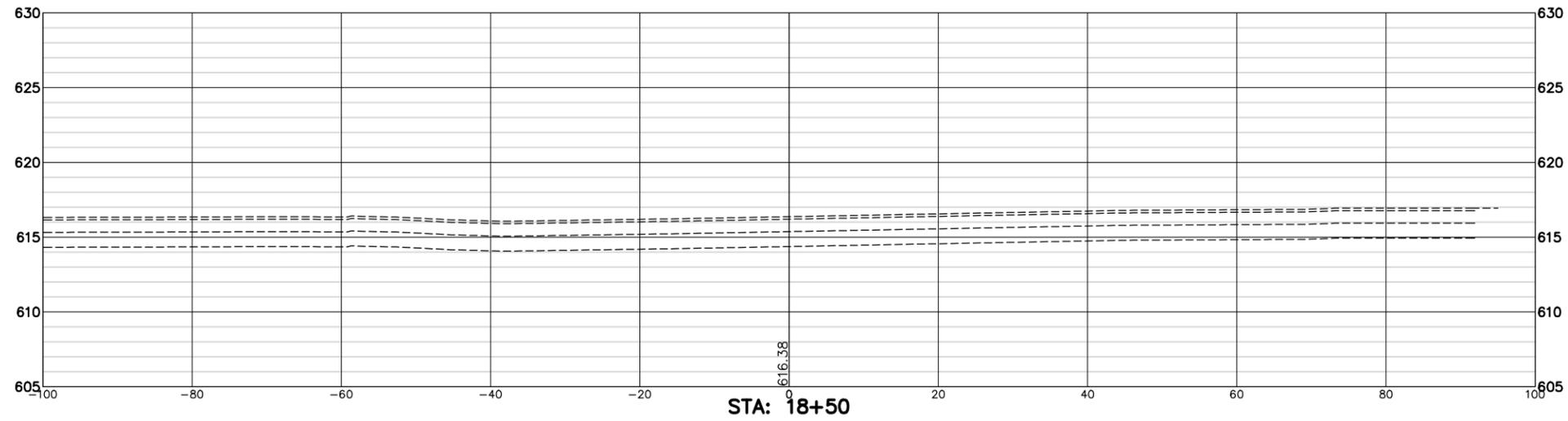
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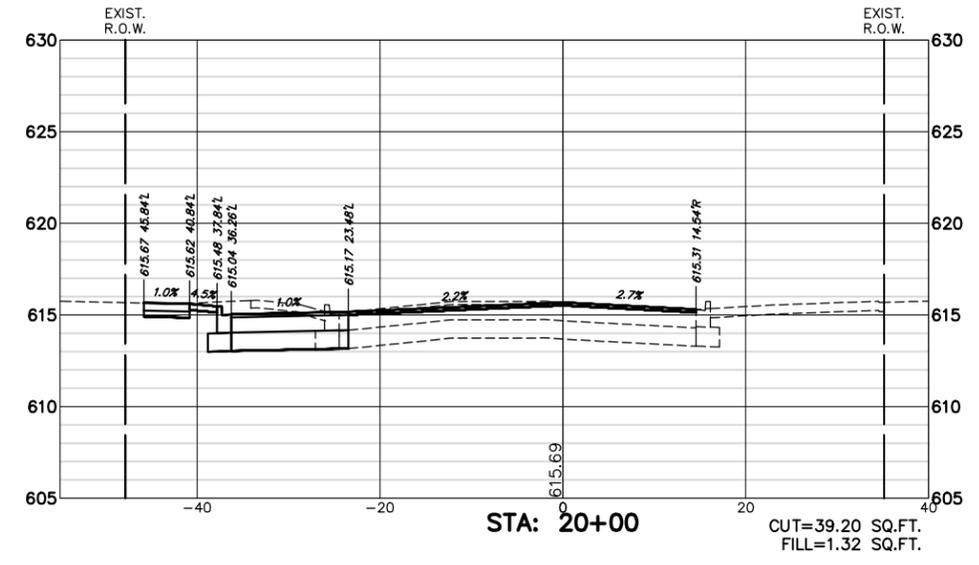
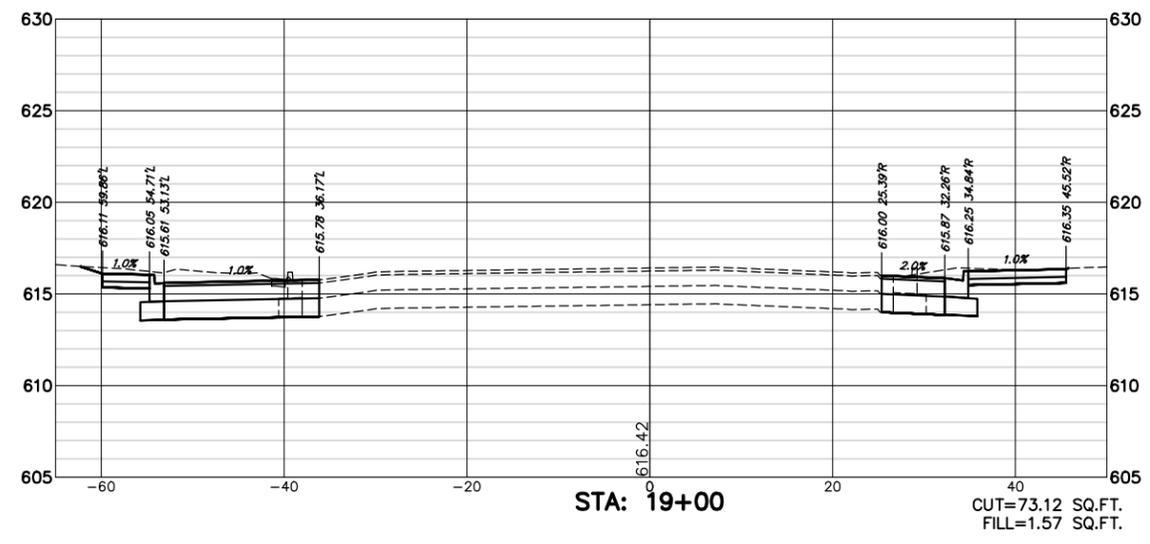
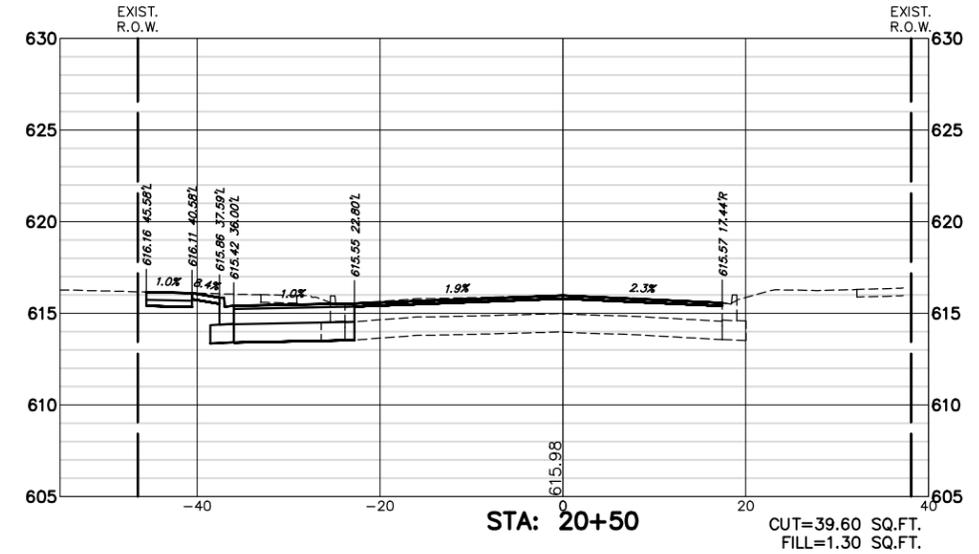
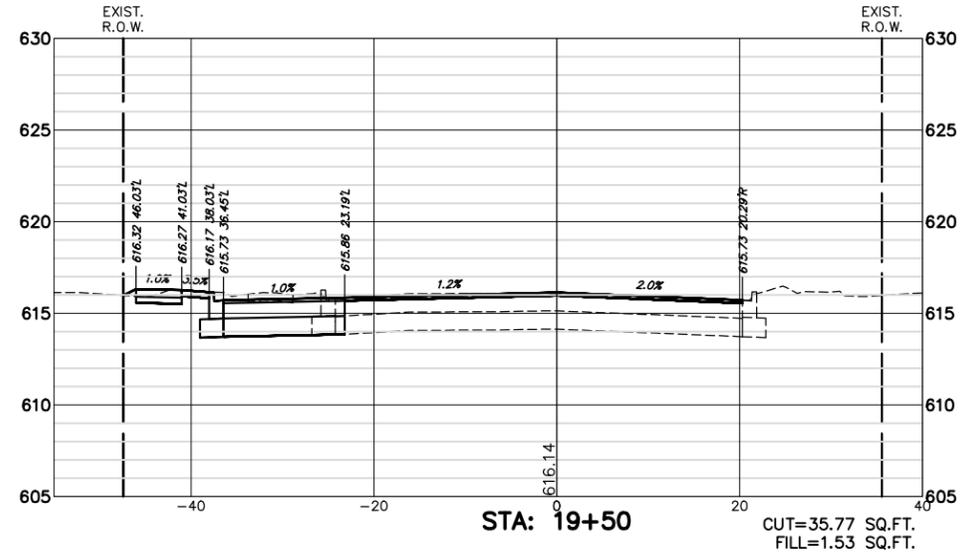
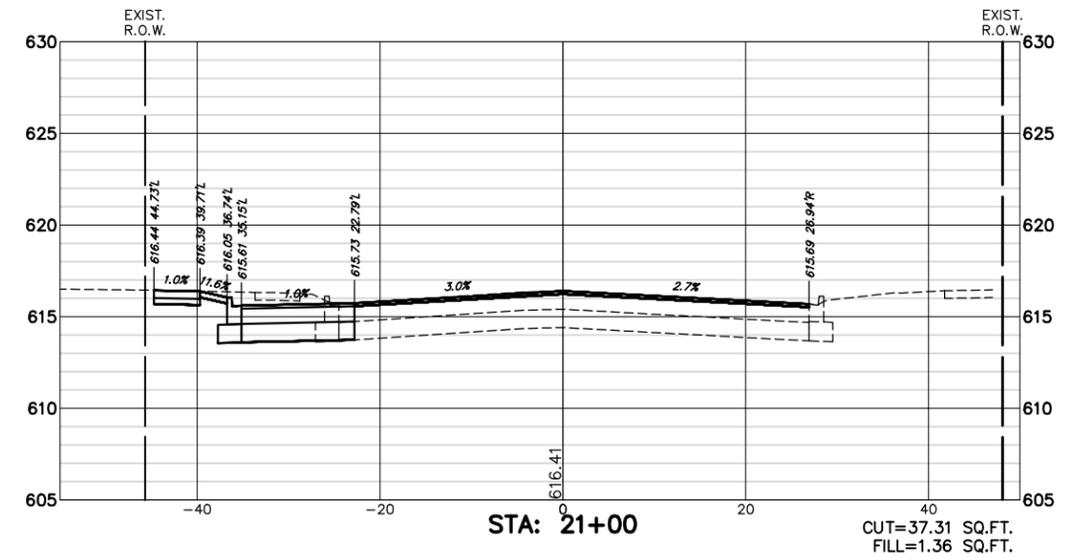
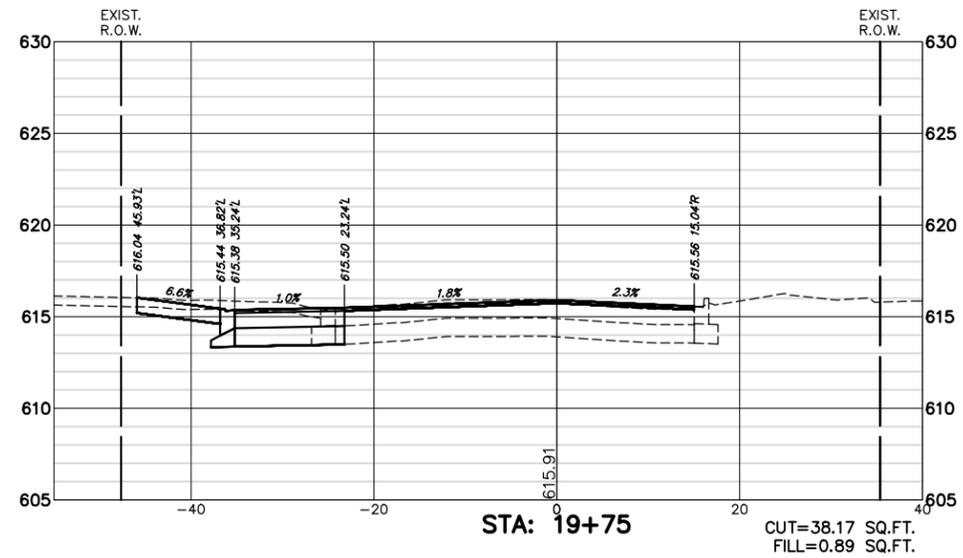
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
71ST STREET ROADWAY IMPROVEMENTS**

SCALE: H:1"=10'; V:1"=5' SHEET NO. OF SHEETS STA. TO STA.

FILE/FAP. RITES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	42
CONTRACT #:			61J45	
ILLINOIS FED. AID PROJECT				





GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX: 847-782-0700
 FAX: 847-782-0701

FILE NAME = 5102.810-Xsect.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

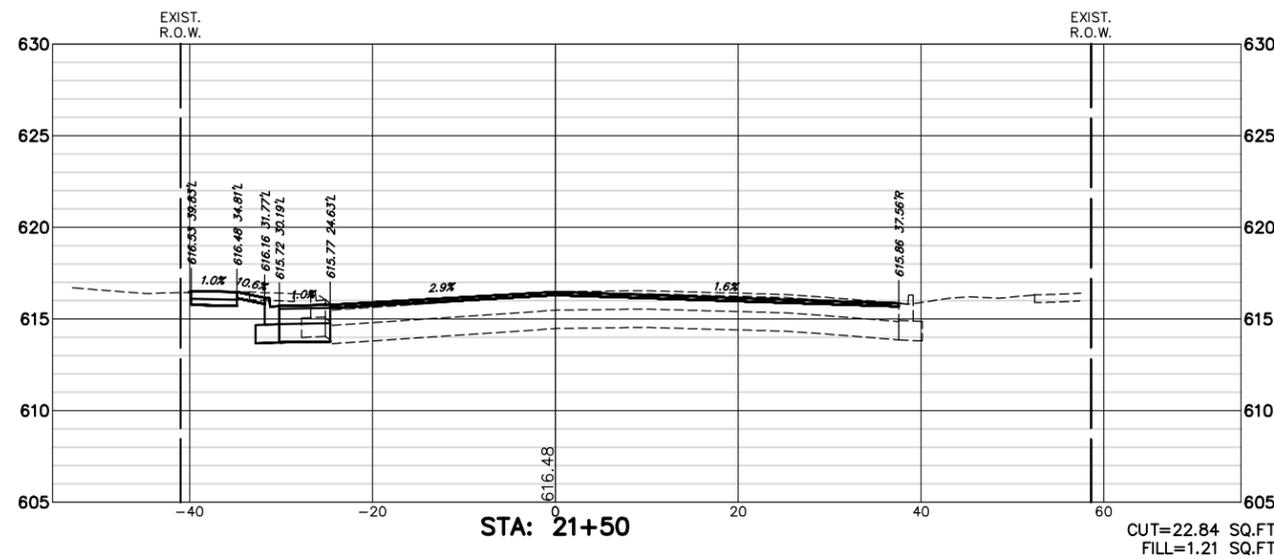
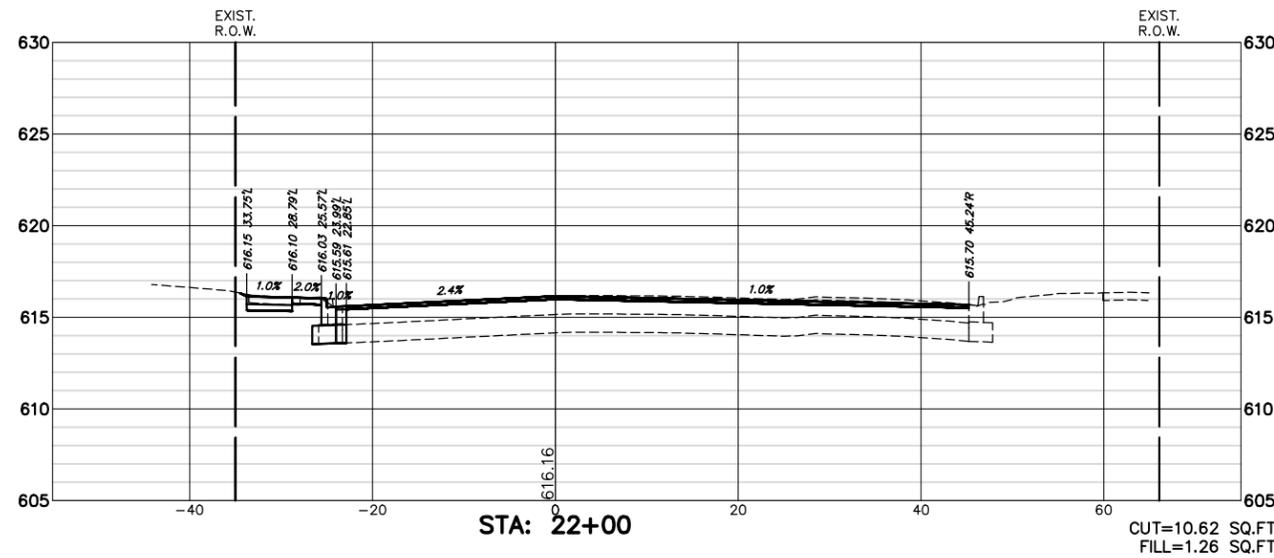
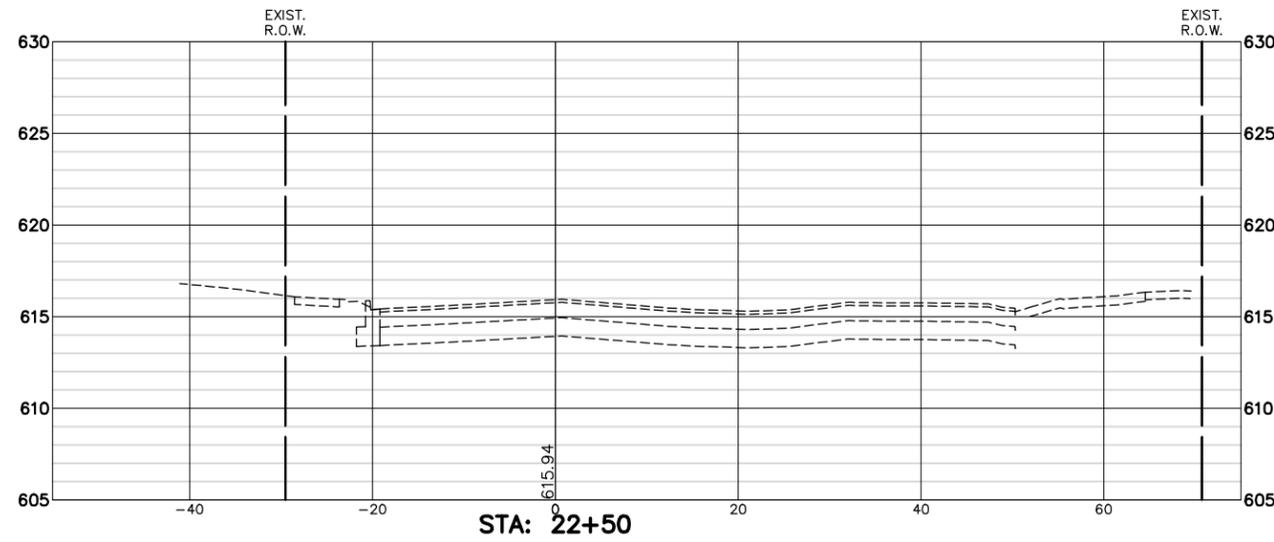
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 71ST STREET ROADWAY IMPROVEMENTS**

SCALE: H:1"=10'; V:1"=5' SHEET NO. OF SHEETS STA. TO STA.

FILE/APP. RITES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	64
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				



GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive
 Vernon Hills, IL 60061
 PAX: 847.482.0700

FILE NAME = 5102.810-Xsect.dwg

USER NAME = MARK COBB
 PLOT SCALE = 1" = .1667'
 PLOT DATE = 11/12/2022

DESIGNED - MGFC
 DRAWN - ZCW
 CHECKED - MGFC
 DATE - 2/14/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 71ST STREET ROADWAY IMPROVEMENTS**

SCALE H:1"=10'; V:1"=5' SHEET NO. OF SHEETS STA. TO STA.

FILE/FAP. RTES.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537/348	16-00038-00-CH	COOK	65	65
CONTRACT #			61J45	
ILLINOIS FED. AID PROJECT				