

INDEX OF SHEETS

1	COVER
2	INDEX OF SHEETS, LEGEND, GENERAL NOTES, LIST OF STANDARDS
3-6	SUMMARY OF QUANTITIES
7-8	REMOVAL SHEETS
9-10	PLAN SHEETS
11-14	RAMP GRADING SHEETS
15-20	IDOT DISTRICT ONE TRAFFIC SIGNAL STANDARD DRAWINGS
21	SIGNAL DETAIL
22-34	TRAFFIC SIGNAL PLANS
35-46	IDOT DISTRICT ONE STANDARD DRAWINGS

LIST OF STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701701-10	URBAN LANE CLOSURE, MULTI LANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720016-04	MAST ARM MOUNTED STREET NAME SIGN
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
821101-02	LUMINAIRE WIRING IN POLE
838001-01	BREAKAWAY DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMB. MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

LIST OF D1 STANDARDS

BD24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BE205	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP, (DUAL) RADIO SCADA (4 SHEETS)
BE215	LIGHTING CONTROLLER SINGLE DOOR
BE240	COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
BE702	MISCELLANEOUS ELECTRICAL DETAILS, SHEET A - (CABLE SPLIOCE, POLE WIRING, TRENCH DETAIL)
BE1050	FIBER OPTIC INTERCONNECT CABINET
TC13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TS02	MAST ARM MOUNTED STREET NAME SIGNS
TS05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESGIN DETAILS
TS08	EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION - MAIN STREET AND CROSS STREET

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE. ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND

⊙	EXISTING MANHOLE	_____	GAS
▲	CONTROL POINT	_____	TELEPHONE
⊞	EXISTING TELEPHONE PEDESTAL	_____	CABLE TELEVISION
→	EXISTING GUY	_____	FIBER OPTIC
⊞	EXISTING POWER POLE	_____	WATER
◁	EXISTING CULVERT	-----	PIPE CULVERT
⊞	EXISTING SIGN	←←←←←	PROPOSED STORM SEWER
⊙	EXISTING TREE	_____	EXISTING STORM SEWER
⊞	EXISTING R.O.W. MARKER	_____	OVERHEAD ELECTRIC
▶	EXISTING MAILBOX	-----	FENCE
▶	PROPOSED MAILBOX	--- --	PROPOSED R.O.W.
—	PROPOSED INLET	-----	EXISTING R.O.W.
⊙	PROPOSED MANHOLE	/// /// /// /// ///	TEMPORARY EASEMENT
▶	PROPOSED SIGN	_____	

GENERAL NOTES

1. THE CONSTRUCTION SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", 2022 EDITION AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", 2023 EDITION
2. WHERE SECTION, SUB-SECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING FACILITIES TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
5. ALL SECTIONS, DETAILS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
6. ALL THE ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
8. EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE HAULED OFF-SITE AT CONTRACTOR'S EXPENSE.
9. THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
10. THE CONTRACTOR SHALL USE ANY ON SITE MATERIAL DEEMED SUITABLE BY THE ENGINEER BEFORE ANY NEW FILL IS HAULED TO THE SITE.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
12. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
13. TRAFFIC SIGNS LOCATED ON EXISTING SIGNAL MAST ARMS AND POSTS SHOULD BE REMOVED SAFELY STORED AND REINSTALLED TO THE PROPOSED TRAFFIC SIGNAL POSTS OR MAST ARMS. ALL RELOCATED SIGNS AND PROPOSED SIGNS SHALL BE INSTALLED WITH SUPPORTING CHANNELS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
14. PROPOSED SIDEWALKS SHALL BE 5" PCC ON A 4" CA-6(SUB-BASE GRANULAR MATERIAL, TYPE B)
15. THE LOCATIONS AND ELEVATIONS SHOWN ON THE PLANS MAY BE MODIFIED IN THE FIELD AS NECESSARY AND SHALL IN NO WAY BE A CAUSE FOR FURTHER COMPENSATION TO THE CONTRACTOR.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY FENCE LOCATIONS WITHIN ROW IN THE PROJECT LIMITS.
17. ALL COORDINATE INFORMATION SHOWN IS EXPRESSED IN ILLINOIS STATE PLANE WEST ZONE (1983) COORDINATE SYSTEM.

PROJECT CONTACTS			
SCHOOLS	DISTRICT 155 (CRYSTAL LAKE)	SHANNON PODZIMEK	(815) 455-8500
	DISTRICT 47 (CRYSTAL LAKE)	DENISE BARR	(815) 788-5014
	DISTRICT 156 (MCHENRY)	SUSAN BAUMGARTNER	(815) 385-7900
	DISTRICT 15 (MCHENRY)	BECCA LATHAM	(847) 963-3204
EMS	CRYSTAL LAKE FIRE/RESCUE DEPARTMENT	PAUL DERAEDT	(815) 356-3640
	MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	STEVE SPRAKER	(815) 385-0075
	NUNDA RURAL FIRE PROTECTION DISTRICT	MICHAEL KEENAN	(815) 455-1559
STATE	ILLINOIS DEPARTMENT OF TRANSPORTATION - DISTRICT ONE	CARMEN RAMOS	(847) 705-4021
COUNTY	MCHENRY COUNTY DIVISION OF TRANSPORTATION	REBECCA BRAZAS	(815) 482-1051
	MCDOT CONSTRUCTION CONTACT	JEREMY STULL	(815) 334-4967
VILLAGES	CITY OF MCHENRY	TROY STRANGE	(815) 363-2186
	VILLAGE OF BULL VALLEY	MIKE KOCH	(815) 459-4833
	NUNDA TOWNSHIP	MIKE LESPERANCE	(815) 459-4410
UTILITIES	AT&T (DISTRIBUTION)	STEVE LARSON	(630) 573-5450
	AT&T (TRANSMISSION LONG DISTANCE)	KEN COLWELL	(630) 383-9249
	COMED ELECTRONIC PLAN SUBMITTAL	LISA ARGAST	(630) 576-7094
	NICOR GAS	PAUL EGGEN	(630) 388-2903
	CRYSTAL LAKE WATER	ABIGAIL WILGREEN	(815) 356-3605
	MCHENRY COUNTY WATER	TROY STRANGE	(815) 363-2186

HOT MIX ASPHALT MIXTURE REQUIREMENTS			
OPERATION	MIXTURE TYPE	PERCENT AIR VOIDS @NDES	OMP
CLASS D PATCH 13"	HOT MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @70 GYR	LR 1030-2
	HOT MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 (TOP 2")	4% @70 GYR	LR 1030-2
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2			

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO 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.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, GENERAL NOTES,
LEGEND AND LIST OF STANDARDS**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	
						ILLINOIS	FED. AID PROJECT

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	MCHENRY	45	2
			19L0111	CONTRACT NO. 61J51

SPEC PROV.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	HILLSIDE	PLEASANT HILL	EDGEWOOD	CRYSTAL SPRINGS	MASON HILL	BULL VALLEY
CONSTRUCTION CODE 0021										
					90% STATE (HSIP FUNDS)			10% CITY		
#	20101200	TREE ROOT PRUNING	EACH	1	1					
#	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	1	1					
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	244	120	124				
	25200110	SODDING, SALT TOLERANT	SQ YD	244	120	124				
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	6	3	3				
	31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	33	18	15				
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,559	1,408	1,151				
	42400800	DETECTABLE WARNINGS	SQ FT	309	128	181				
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	347	167	180				
	44000600	SIDEWALK REMOVAL	SQ FT	1,282	727	555				
	44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	67	41	26				
	44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	121	59	62				
	44201803	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	53	18	35				
	60260100	INLETS TO BE ADJUSTED	EACH	2	2					
	60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	1	1				
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	347	167	180				
	67100100	MOBILIZATION	L SUM	1	0.17	0.17	0.17	0.16	0.16	0.17
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.17	0.17	0.17	0.16	0.16	0.17
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.17	0.17	0.17	0.16	0.16	0.17
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	50	SPEC	SPEC	SPEC	SPEC	SPEC	SPEC
#	72000100	SIGN PANEL - TYPE 1	SQ FT	196	68	38	30	15	15	30

#SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	3
19L0111		CONTRACT NO.	61J51	
ILLINOIS FED. AID PROJECT				

SPEC PROV.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	HILLSIDE	PLEASANT HILL	EDGEWOOD	CRYSTAL SPRINGS	MASON HILL	BULL VALLEY	
					CONSTRUCTION CODE 0021						
					90% STATE (HSIP FUNDS)				10% CITY		
#	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	944	400	544					
#	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	1,405	491	914					
#	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	104	22	82					
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,119	229	890					
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	212	110	56				46	
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	1,025	87	201	44	87	114	492	
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	691		281				410	
	81400100	HANDHOLE	EACH	3		2				1	
	81400300	DOUBLE HANDHOLE	EACH	3						3	
	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	5,796		954	922	617	581	2,722	
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	1	1	1	1	1	1	
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	963		220	196			547	
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	13,386	3,338	3,783	806	823	927	3,709	
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	4,417	421	749	439	304	286	2,218	
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	276	38	41	41	40	44	72	
	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,354	243	654	70	97	103	1,187	
	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	9	5	4					
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	12	2	3			1	6	
	87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1			1				
	87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	4		2		1		1	

#SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	4
	19L0111		CONTRACT NO.	61J51
		ILLINOIS	FED. AID PROJECT	

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SPEC PROV.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	HILLSIDE	PLEASANT HILL	EDGEWOOD	CRYSTAL SPRINGS	MASON HILL	BULL VALLEY
					CONSTRUCTION CODE 0021					
					90% STATE (HSIP FUNDS)			10% CITY		
	87702955	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 45 FT.	EACH	1			1			
	87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	2					1	1
	87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1						1
	87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1						1
	87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1						1
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	84	28	28			4	24
	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4						4
	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	134		26	26	13	13	56
	87900200	DRILL EXISTING HANDHOLE	EACH	21	8	8	2	1	2	
	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	36	6	6	4	7	6	7
	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	35	4	8	8	4	4	7
	88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	14	4	2	2	1	1	4
	88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	14	4	2	2	1	1	4
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16	8	8				
	88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	99	18	18	16	13	12	22
	88700200	LIGHT DETECTOR	EACH	4						4
*	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4		2	2			
*	89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	5	1	1	1	1	1	
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1	1	1	1	1	1

#SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	5
19L0111		CONTRACT NO.	61J51	
ILLINOIS FED. AID PROJECT				

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SPEC PROV.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	HILLSIDE	PLEASANT HILL	EDGEWOOD	CRYSTAL SPRINGS	MASON HILL	BULL VALLEY
CONSTRUCTION CODE 0021										
					90% STATE (HSIP FUNDS)			10% CITY		
*	X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	6	1	1	1	1	1	1
*	X0322281	WIDE AREA VIDEO DETECTION SYSTEM COMPLETE	EACH	1						1
*	X0323986	RELOCATE EXISTING VIDEO VEHICLE DETECTOR	EACH	8		2	2	2	2	
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	963		220	196			547
*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	826	243	240	120	121	102	
	X0338320	CONCRETE COLOR ADDITIVE	CU YD	0.6	0.3	0.3				
	X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1						1
*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	6	1	1	1	1	1	1
*	X1400238	LUMINAIRE LED SPECIAL	EACH	10		2	2	1	1	4
*	X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1						1
*	X2130010	EXPLORATION TRENCH SPECIAL	FOOT	300	50	50	50	50	50	50
*	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1						1
*	X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1						1
*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1						1
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16	8	8				
*	X8809005	LED SIGNAL FACE, LENS COVER	EACH	99	18	18	16	13	12	22
*	X8870300	EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	1						1
*	XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	22	4	4	4	3	3	4
*	Z0013798	CONSTRUCTION LAYOUT	J. SUM	1	0.17	0.17	0.17	0.16	0.16	0.17
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	617	103	103	103	103	103	102
*	Z0007430	TEMPORARY SIDEWALK	SQ FT	2,559	1,408	1,151				
*	Z0076600	TRAINEES	hour	500	SPEC	SPEC	SPEC	SPEC	SPEC	SPEC
*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	500	SPEC	SPEC	SPEC	SPEC	SPEC	SPEC

#SPECIALTY ITEMS

△ 0042

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MODEL SHEET 4
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PLOT DATE = 4/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

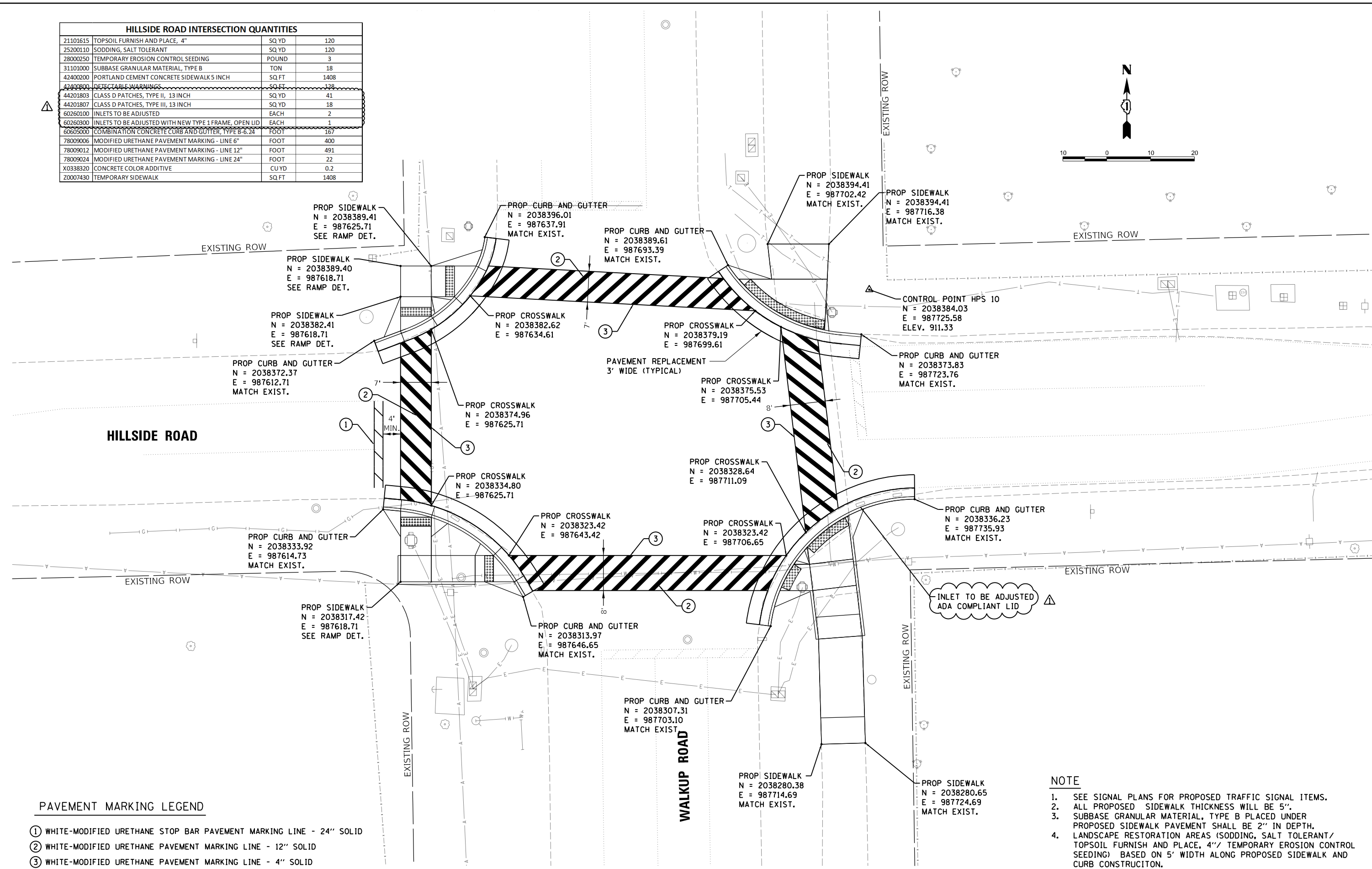
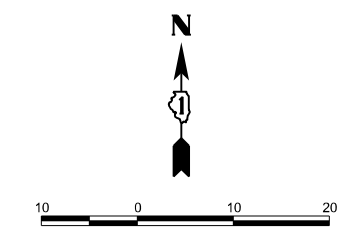
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	6
19L0111		CONTRACT NO.		61J51
ILLINOIS FED. AID PROJECT				

HPSI

HILLSIDE ROAD INTERSECTION QUANTITIES			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	120
25200110	SODDING, SALT TOLERANT	SQ YD	120
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	18
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1408
42400800	DETECTABLE WARNINGS	SQ FT	128
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	41
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	18
60260100	INLETS TO BE ADJUSTED	EACH	2
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	167
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	400
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	491
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	22
X0338320	CONCRETE COLOR ADDITIVE	CU YD	0.2
Z0007430	TEMPORARY SIDEWALK	SQ FT	1408



MODEL: Hillside Road
 DRAWN: JAP
 REVIEWED: JAP
 FILE: h:\a\h\hanson\civic\hanson\hillsideroad\hillsideroad.dwg
 PLOT DATE: 4/14/2023
 USER: j\jap
 PLOT SCALE: 1"=10'
 PLOT DATE: 4/14/2023



PAVEMENT MARKING LEGEND

- ① WHITE-MODIFIED URETHANE STOP BAR PAVEMENT MARKING LINE - 24" SOLID
- ② WHITE-MODIFIED URETHANE PAVEMENT MARKING LINE - 12" SOLID
- ③ WHITE-MODIFIED URETHANE PAVEMENT MARKING LINE - 4" SOLID

NOTE

1. SEE SIGNAL PLANS FOR PROPOSED TRAFFIC SIGNAL ITEMS.
2. ALL PROPOSED SIDEWALK THICKNESS WILL BE 5".
3. SUBBASE GRANULAR MATERIAL, TYPE B PLACED UNDER PROPOSED SIDEWALK PAVEMENT SHALL BE 2" IN DEPTH.
4. LANDSCAPE RESTORATION AREAS (SODDING, SALT TOLERANT/ TOPSOIL FURNISH AND PLACE, 4"// TEMPORARY EROSION CONTROL SEEDING) BASED ON 5' WIDTH ALONG PROPOSED SIDEWALK AND CURB CONSTRUCTION.

DESIGNED -	USER NAME = Pearc00397	DESIGNED -	REVISION - 4/13/23 ADDENDUM
DRAWN -	JAP	DRAWN -	JAP
CHECKED -		CHECKED -	
DATE -		DATE -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HILLSIDE ROAD / WALKUP ROAD
PLAN SHEET

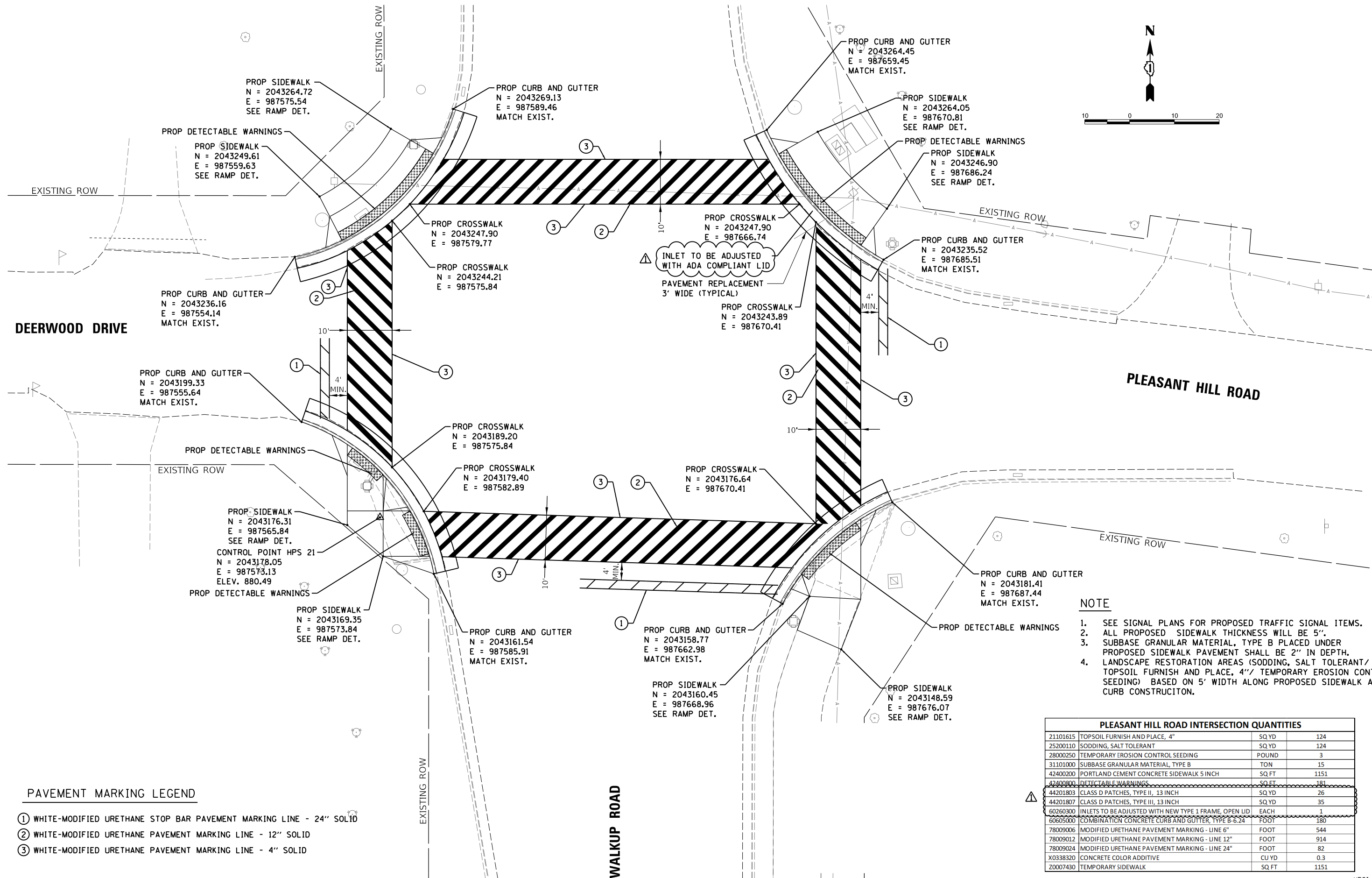
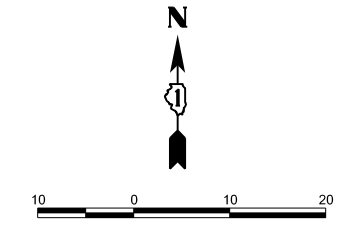
SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	9
	19L0111			CONTRACT NO. 61J51

HPS1



MODEL: Pleasant Hill Road
FILE NAME: ...\\hanson\c\p\hansondoc\190111\CAD - Use MicroStation V8i or PowerGeopak 5510\RoadSheet190111.dwg
DESIGNED BY: ...\\hanson\c\p\hansondoc\190111\CAD - Use MicroStation V8i or PowerGeopak 5510\RoadSheet190111.dwg



DEERWOOD DRIVE

PLEASANT HILL ROAD

WALKUP ROAD

PAVEMENT MARKING LEGEND

- ① WHITE-MODIFIED URETHANE STOP BAR PAVEMENT MARKING LINE - 24" SOLID
- ② WHITE-MODIFIED URETHANE PAVEMENT MARKING LINE - 12" SOLID
- ③ WHITE-MODIFIED URETHANE PAVEMENT MARKING LINE - 4" SOLID

NOTE

1. SEE SIGNAL PLANS FOR PROPOSED TRAFFIC SIGNAL ITEMS.
2. ALL PROPOSED SIDEWALK THICKNESS WILL BE 5".
3. SUBBASE GRANULAR MATERIAL, TYPE B PLACED UNDER PROPOSED SIDEWALK PAVEMENT SHALL BE 2" IN DEPTH.
4. LANDSCAPE RESTORATION AREAS (SODDING, SALT TOLERANT/ TOPSOIL FURNISH AND PLACE, 4" TEMPORARY EROSION CONTROL SEEDING) BASED ON 5' WIDTH ALONG PROPOSED SIDEWALK AND CURB CONSTRUCTION.

PLEASANT HILL ROAD INTERSECTION QUANTITIES			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	124
25200110	SODDING, SALT TOLERANT	SQ YD	124
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	15
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1151
42400800	DETECTABLE WARNINGS	SQ FT	181
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	26
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	35
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	180
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	544
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	914
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	82
X0338320	CONCRETE COLOR ADDITIVE	CU YD	0.3
Z0007430	TEMPORARY SIDEWALK	SQ FT	1151

DESIGNED	
DRAWN	
REVIEWED	

USER NAME = Pearc00397	DESIGNED -	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 20.0000' / in.	DRAWN - JAP	REVISED -
PLOT DATE = 4/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLEASANT HILL ROAD / WALKUP ROAD
PLAN SHEET

SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	10
	19L0111		CONTRACT NO.	61J51

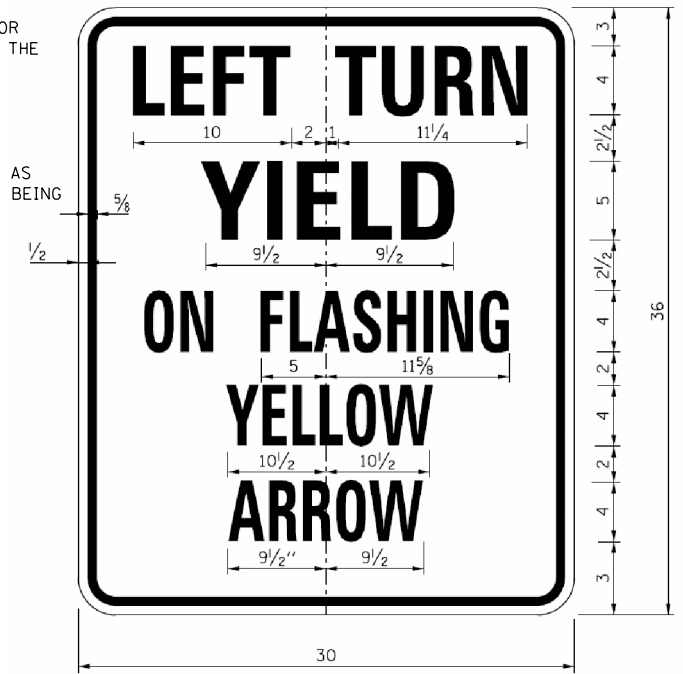
TRAFFIC SIGNAL NOTES:

1. THE REMOVAL OF EXISTING ELECTRIC CABLE IN CONDUIT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT". REMOVAL OF EXISTING ELECTRICAL CONDUIT SHALL BE IN ACCORDANCE WITH ARTICLE 895.
2. THE CONTRACTOR SHALL FIELD VERIFY THE PRECISE LOCATIONS AND LAYOUT OF PROPOSED SIGNAL MAST ARMS, POLES, CONTROLLERS, HANDHOLES, AND FOUNDATIONS AND VERIFY ALL EXISTING UTILITIES, OVERHEAD AND UNDERGROUND, PRIOR TO ORDERING MATERIALS, OR PROCEEDING WITH CONSTRUCTION.
3. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
4. ALL PEDESTRIAN SECTIONS SHALL HAVE 16" LENSES WITH A MAN/HAND OVERLAY AND COUNTDOWN TIMER.
5. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 17' MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
6. THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES, UNLESS OTHERWISE DIRECTED.
7. ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
8. PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
9. THE HANDHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, CURB, OR GROUND LINE.
10. THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE RESIDENT ENGINEER SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
11. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
12. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 3 FT. OR 36" MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES. CONDUIT SHALL NEVER BE INSTALLED AT DEPTH LESS THAN 36" UNLESS APPROVED BY THE ENGINEER IN WRITING.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS OR THE APPROPRIATE PAY ITEM BEING INSTALLED. EXPLORATORY WORK SUCH AS "POT-HOLING" TO EXPOSE EXACT UTILITY LOCATIONS SHALL ALSO BE CONSIDERED INCLUDED IN THE PAY ITEM BEING INSTALLED.
14. ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, SERVICE RISERS, EXPOSED METALLIC CONDUITS, AND PHOTOCCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
15. A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. SHALL BE PAID FOR WITH UNIT PRICE FOR CONDUIT
16. ALL EXISTING TIMING, PHASING, AND PREEMPTION ARE TO FUNCTION AS THE EXISTING SIGNALS UNLESS OTHERWISE NOTED.
17. ALL EXISTING CONDUIT IS TO REMAIN AND USED IN PLACE UNLESS OTHERWISE NOTED.
18. ALL PEDESTRIAN PUSH BUTTONS AND ASSOCIATED SIGN ASSEMBLIES SHALL BE PARALLEL TO THE CROSSWALK AND BE A MAXIMUM OF 10 INCHES FROM THE EDGE OF SIDEWALK PATH.
19. EVERY MAST ARM MOUNTED FLASHING YELLOW ARROW SIGNAL HEAD SHALL BE INSTALLED ALONG WITH A "FLASHING YELLOW ARROW" SIGN AS DETAILED ON SIGN PANEL DETAIL THIS SHEET. ALL FLASHING YELLOW ARROW SIGNS SHALL BE INSTALLED WITH SUPPORTING/REINFORCING CHANNELS.
20. ALL LUMINAIRE ARMS ON SIGNAL COMBINATION MAST ASSEMBLIES SHALL BE 25' IN LENGTH UNLESS OTHERWISE APPROVED BY THE ENGINEER.
21. ALL HANDHOLES SPECIFIED TO BE REMOVED SHALL ALSO INCLUDE REQUIRED WORK, AS APPROVED BY THE ENGINEER, ASSOCIATED WITH SEALING THE ABANDONED CONDUITS FROM BOTH ENDS OF THE CONDUIT PATHWAY WITH MORTAR OR OTHER MATERIAL AS APPROVED BY THE ENGINEER. THIS ADDITIONAL WORK SHALL BE INCLUDED IN THE COST OF THE HANDHOLE BEING REMOVED.
22. IF PROPOSED CONDUITS INTERCEPT EXISTING CONDUITS, THE COST ASSOCIATED WITH LABOR AND MATERIALS TO MAKE AN ENGINEER APPROVED CONNECTION SHALL BE COMPENSATED FOR AS PART OF THE PROPOSED CONDUIT BEING INSTALLED.
23. ALL SIGNS ASSOCIATED WITH TRAFFIC SIGNAL HEADS TO BE REMOVED SHALL ALSO BE REMOVED.
24. A DAMPENING PLATE SHALL BE INSTALLED NEAR THE ENDS OF ALL MAST ARMS OVER 41 FEET IN LENGTH. THE COST OF THE DAMPENING PLATE SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE MAST ARM PAY ITEM. SEE DETAIL.
25. THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION UNTIL THE PROPOSED SIGNAL EQUIPMENT AND CABLING IS INSTALLED. THE SIGNAL SHALL BE TAKEN OFFLINE AND REPLACED WITH AN ALL WAY STOP, AT A TIME AND DATE APPROVED BY THE COUNTY, WHILE THE NEW SERVICE CONNECTIOIN, CONTROLLER, AND CABINET EQUIPMENT IS INSTALLED AND MADE OPERATIONAL.

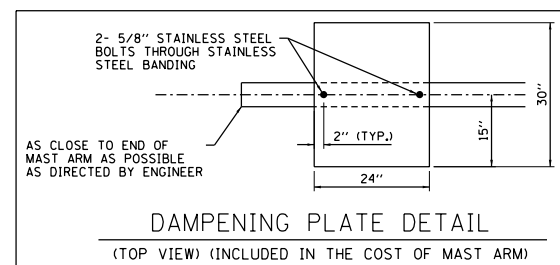
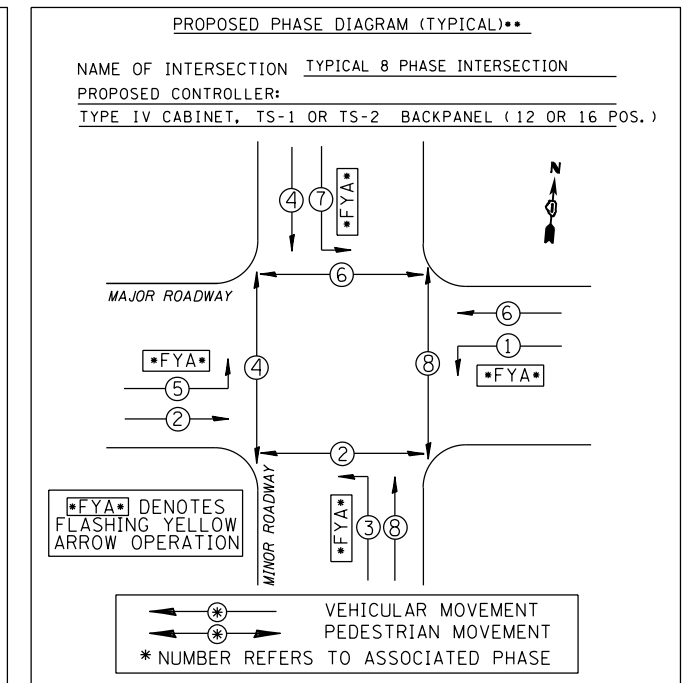
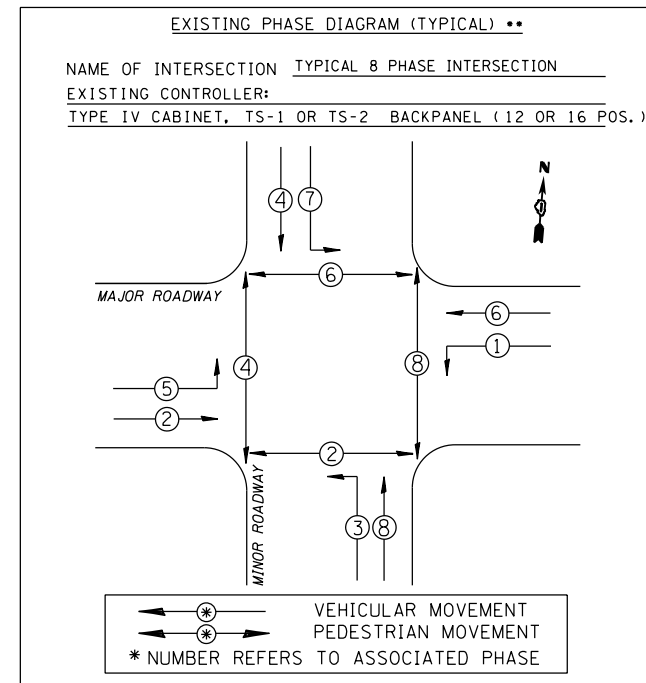
CABLE PLAN NOTES

1. THE CONTRACTOR SHALL INFORM THE COUNTY PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCED NOTICE IS REQUIRED.
2. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE 1-800-892-0123.8. IT IS CONTRACTOR'S RESPONSIBILITY TO LOCATE EXISTING TRAFFIC SIGNAL CABLES AND CONDUITS AND ROADWAY LIGHTING SYSTEM CABLES REGARDLESS OF MAINTENANCE RESPONSIBILITY OF SYSTEM NEEDING TO BE LOCATED.
3. ALL WORK ASSOCIATED WITH INSTALLING NEW CONDUIT INTO EXISTING HANDHOLES, SUCH AS GROUTING, CORING, PATCHING, ETC. SHALL BE INCLUDED IN THE PRICE OF THE CONDUIT BEING INSTALLED.

FLASHING YELLOW ARROW SIGN



COLOR: BACKGROUND - WHITE
MESSAGE: - BLACK
LINE 1 IS SERIES - C
LINE 2, 4, AND 5 ARE SERIES - D
LINE 3 IS SERIES - B
ALL DIMENSIONS SHOWN ARE IN INCHES
SHEETING: TYPE ZZ



(TYPICAL) ** : SEE INTERSECTION SPECIFIC TRAFFIC SIGNAL AND CABLE PLANS FOR LOCATION SPECIFIC DETAILS AS THERE ARE VARIATIONS FROM THE TYPICAL SHOWN. PHASE DESIGNATIONS SHALL FOLLOW STANDARD 857001 (EXAMPLE PHASE 2 MAY BE EITHER NORTHBOUND THROUGH OR EASTBOUND THROUGH BASED UPON WHICH ROADWAY IS DESIGNATED AS "MAJOR ROADWAY").



DESIGNED	
DRAWN	
REVIEWED	

MODEL: Default
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USER NAME = Pearc00397	DESIGNED -	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 2,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 4/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNAL DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	21
	19L0111		CONTRACT NO.	61J51
ILLINOIS FED. AID PROJECT				

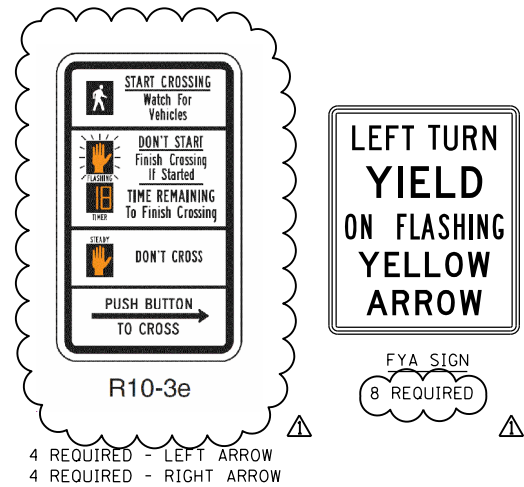
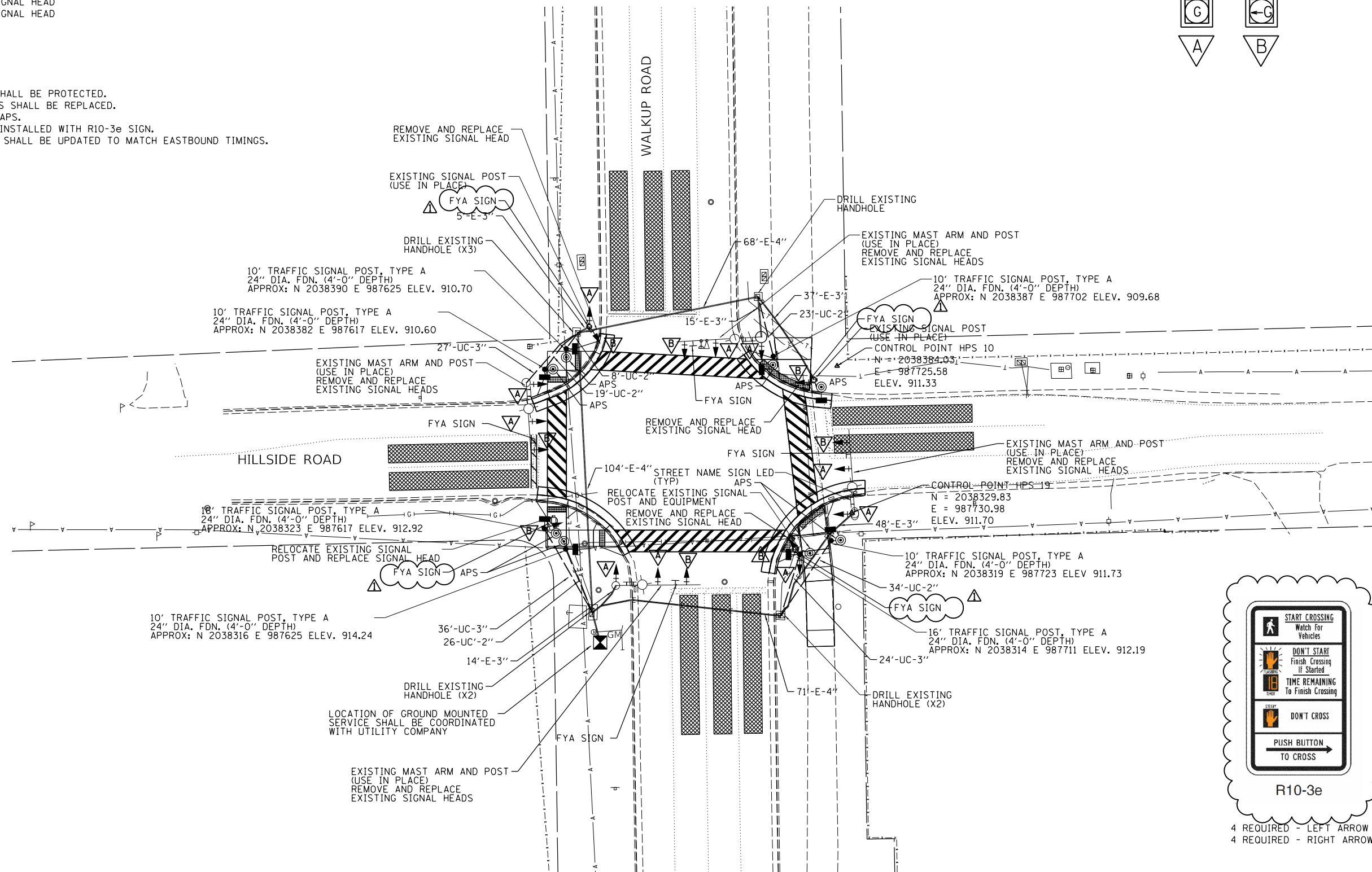
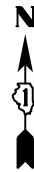
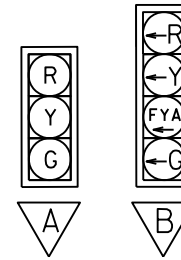
REMOVAL NOTES:

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

- 6 EACH 5-SECTION SIGNAL HEAD
- 8 EACH 3-SECTION SIGNAL HEAD

GENERAL NOTES:

ALL FENCING WITHIN ROW SHALL BE PROTECTED.
 ALL EXISTING SIGNAL HEADS SHALL BE REPLACED.
 ALL PUSH BUTTONS TO BE APS.
 ALL PUSH BUTTONS TO BE INSTALLED WITH R10-3e SIGN.
 WESTBOUND SIGNAL PHASES SHALL BE UPDATED TO MATCH EASTBOUND TIMINGS.



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DESIGNED	
DRAWN	
REVIEWED	

USER NAME = Pearc00397	DESIGNED - TMA	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 40.0000 ' / in.	DRAWN - MOC/TMA	REVISED -
PLOT DATE = 4/14/2023	CHECKED - KNB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HILLSIDE ROAD / WALKUP ROAD
 SIGNAL PLAN

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



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	22
	19L0111		CONTRACT NO.	61J51
ILLINOIS		FED. AID PROJECT		

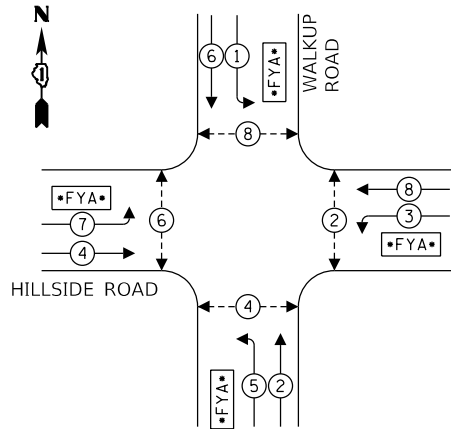
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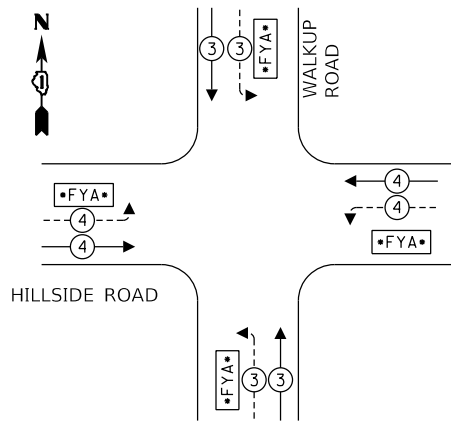


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PROPOSED PHASE DIAGRAM



**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



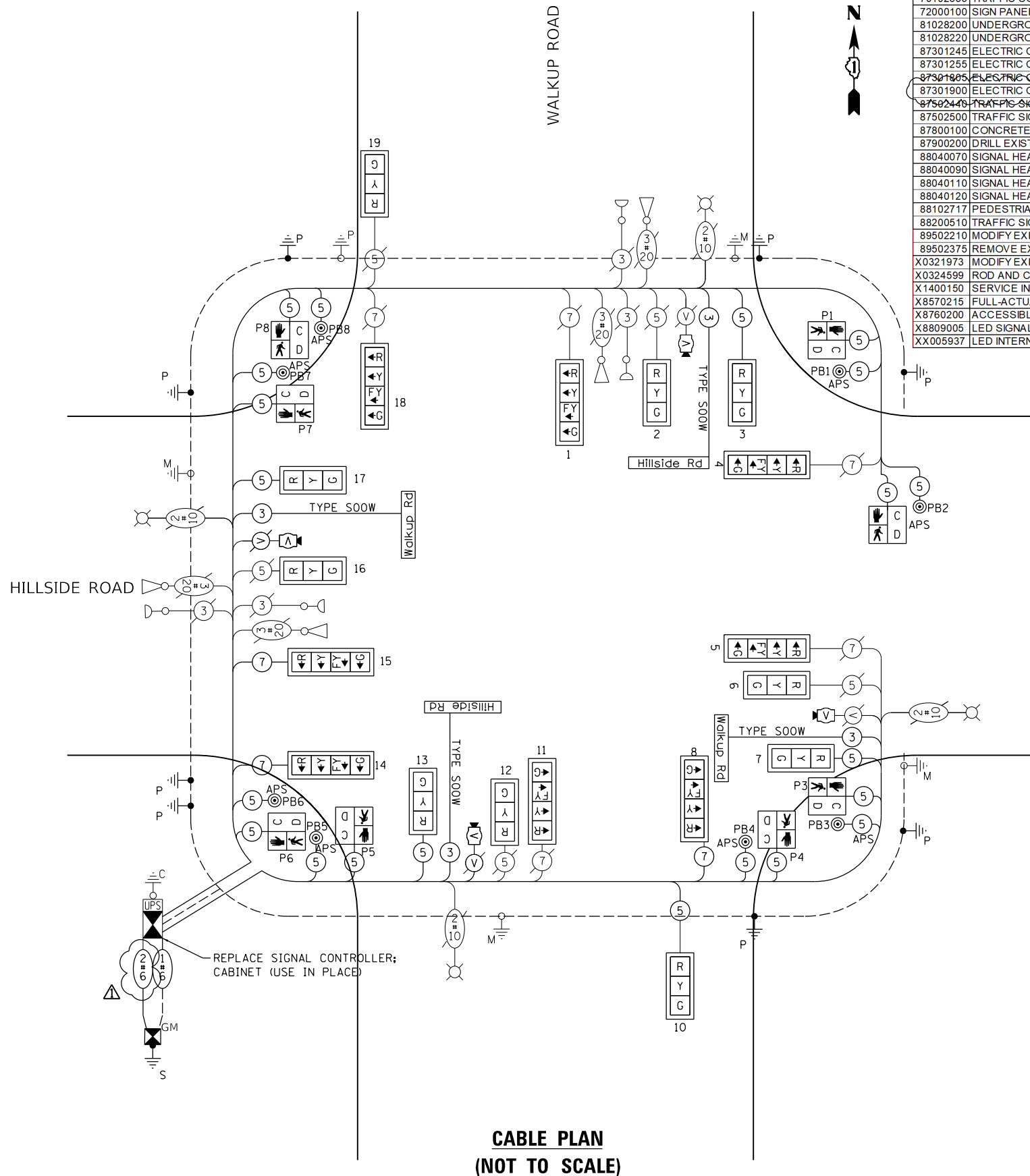
**TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	11	50	104.5
(YELLOW)	19	20	5	19.0
(GREEN)	19	12	45	102.6
FYA	8	10	45	36.0
PED. SIGNAL				8
CONTROLLER				1
UPS				1
VIDEO DETECTION				1
LUMINAIRE				4
PTZ/SURVEILLANCE				1
TOTAL =				1137.1

ENERGY COST - BILLED TO: McHENRY COUNTY
 2200 N. SEMINARY AVE.
 WOODSTOCK, IL 60098

ENERGY SUPPLY - CONTACT: LISA ARGAST
 PHONE: (630) 576-7094
 COMPANY: COMED

PAY ITEM	DESCRIPTION	UNIT	Quantity
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	
72000100	SIGN PANEL - TYPE 1	SQ FT	68
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	140
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	87
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3338
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	421
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	38
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	243
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28
87900200	DRILL EXISTING HANDHOLE	EACH	8
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	1
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	243
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
X8809005	LED SIGNAL FACE, LENS COVER	EACH	18
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4



**CABLE PLAN
(NOT TO SCALE)**

DESIGNED	
DRAWN	
REVIEWED	

USER NAME = Pearc00397	DESIGNED -	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 4/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**HILLSIDE ROAD / WALKUP ROAD
WIRING DIAGRAM**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	23
19L0111		CONTRACT NO. 61J51		

HPS1

ILLINOIS FED. AID PROJECT

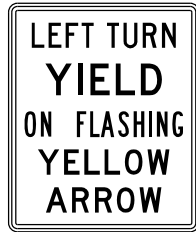
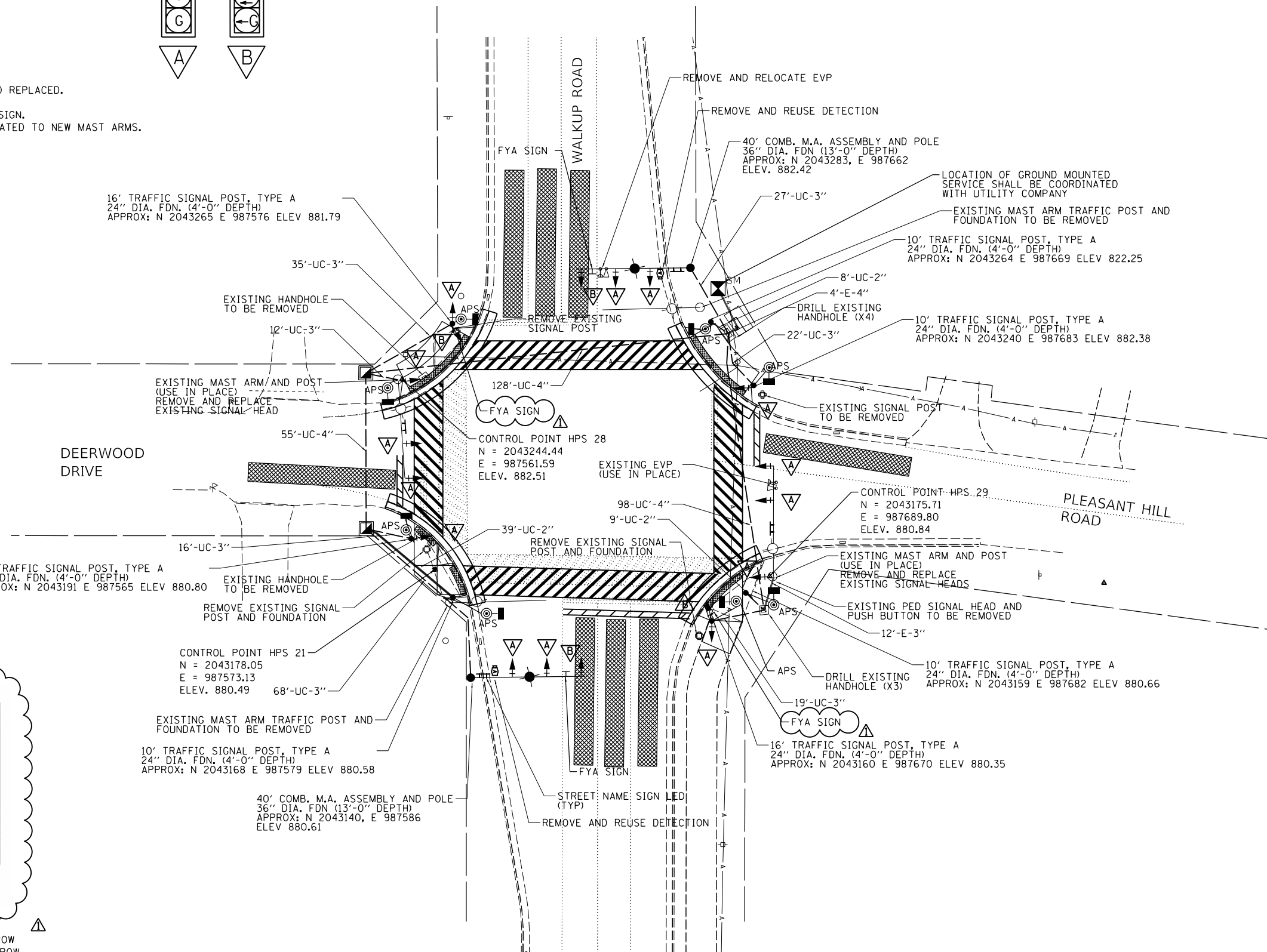
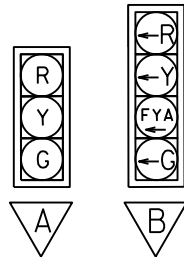
REMOVAL NOTES:

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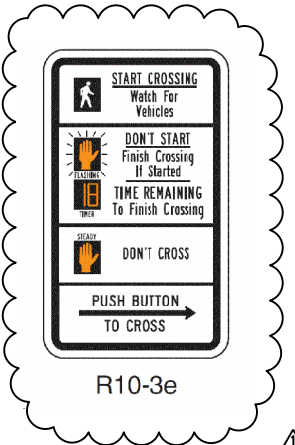
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 2 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD

GENERAL NOTES:

ALL EXISTING SIGNAL HEADS SHALL BE REMOVED AND REPLACED.
 ALL PUSH BUTTONS TO BE APS.
 ALL PUSH BUTTONS TO BE INSTALLED WITH R10-3e SIGN.
 EVP AND VIDEO DETECTION EQUIPMENT TO BE RELOCATED TO NEW MAST ARMS.



FYA SIGN
4 REQUIRED



R10-3e
4 REQUIRED - LEFT ARROW
4 REQUIRED - RIGHT ARROW



DESIGNED	
DRAWN	
REVIEWED	

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PLOT DATE = 4/14/2023	CHECKED - KNB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLEASANT HILL ROAD / WALKUP ROAD SIGNAL PLAN		
SCALE: 1"=20'	SHEET OF SHEETS	STA. TO STA.

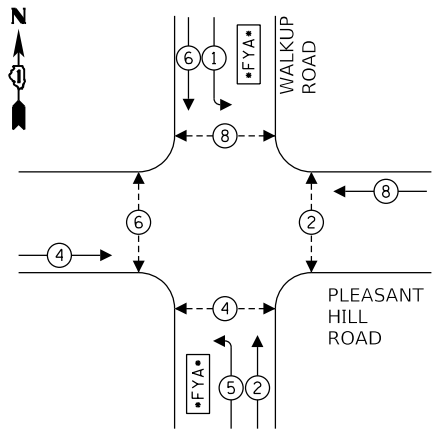
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	24
19L0111			CONTRACT NO.	61J51

ILLINOIS FED. AID PROJECT

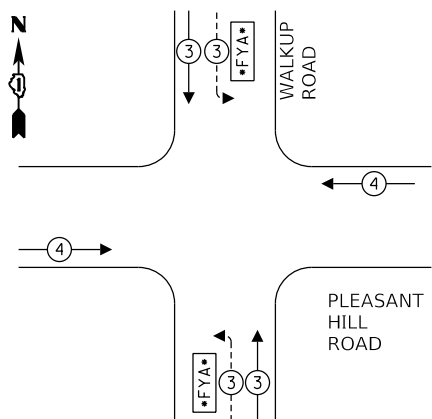


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 PLOT DATE = 4/14/2023

PROPOSED PHASE DIAGRAM



**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**

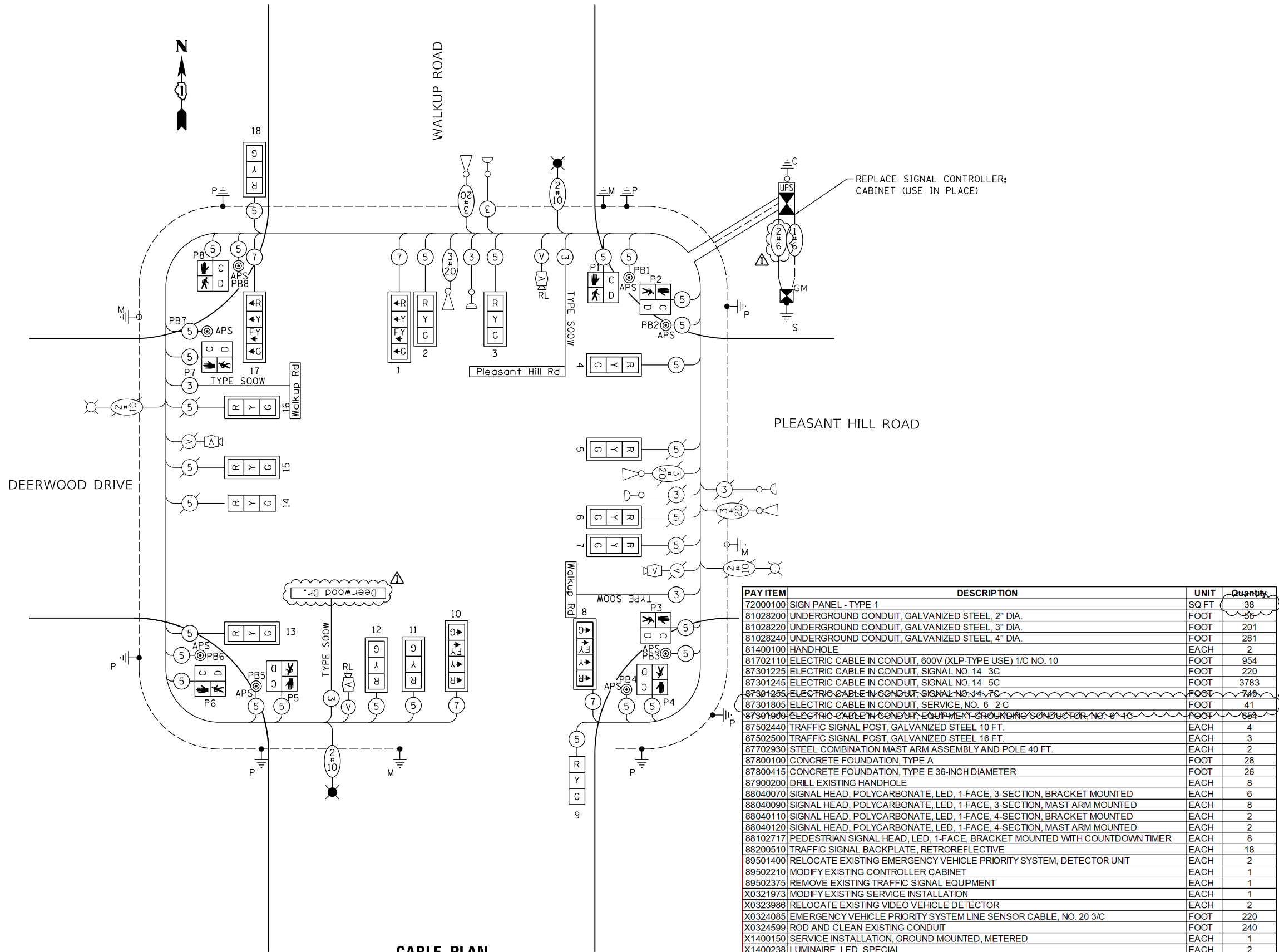


**TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
FYA	4	10	45	18.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO DETECTION	1	150	100	150.0
LUMINAIRE	4	190	50	380.0
TOTAL =				1047.2

ENERGY COST - BILLED TO: MCHENRY COUNTY
 2200 N. SEMINARY AVE.
 WOODSTOCK, IL 60098

ENERGY SUPPLY - CONTACT: LISA ARGAST
 PHONE: (630) 576-7094
 COMPANY: COMED



**CABLE PLAN
(NOT TO SCALE)**

PAY ITEM	DESCRIPTION	UNIT	Quantity
72000100	SIGN PANEL - TYPE 1	SQ.FT	38
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	56
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	201
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	281
81400100	HANDHOLE	EACH	2
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	954
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	220
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3783
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	749
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	41
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 8 1 C	FOOT	654
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
87900200	DRILL EXISTING HANDHOLE	EACH	8
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	1
X0323986	RELOCATE EXISTING VIDEO VEHICLE DETECTOR	EACH	2
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	220
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	240
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
X1400238	LUMINAIRE, LED, SPECIAL	EACH	2
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
X8809005	LED SIGNAL FACE, LENS COVER	EACH	18
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4

DESIGNED	
DRAWN	
REVIEWED	

USER NAME = Pearc00397	DESIGNED -	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 4/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLEASANT HILL ROAD / WALKUP ROAD
WIRING DIAGRAM**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	MCHENRY	45	25
	19L0111		CONTRACT NO.	61J51

HPS1

ILLINOIS FED. AID PROJECT

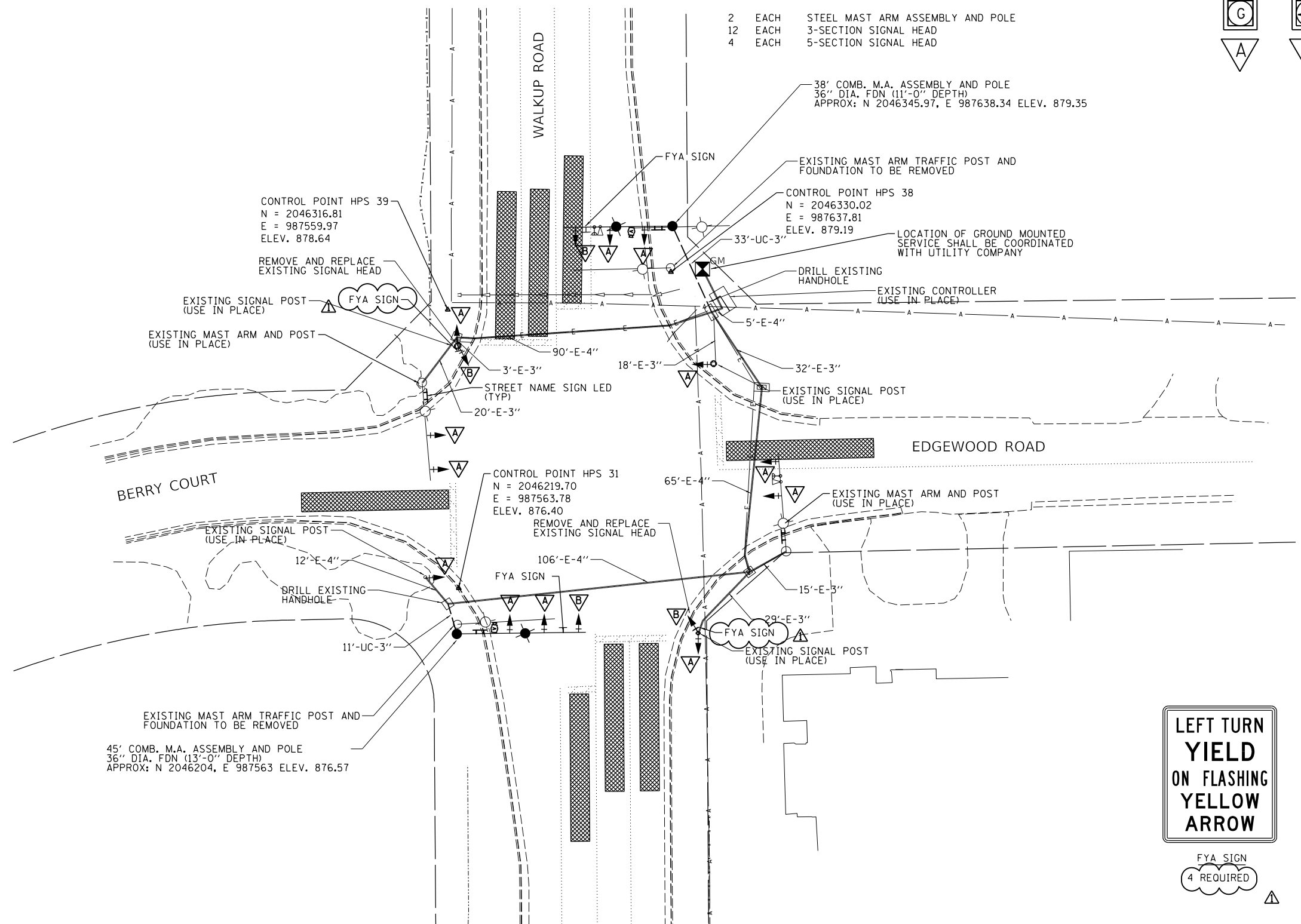
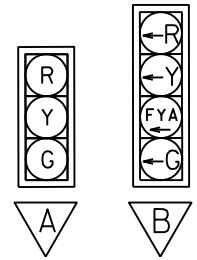
GENERAL NOTES:

ALL EXISTING SIGNAL HEADS TO BE REMOVED AND REPLACED.
EVP AND VIDEO DETECTION EQUIPMENT TO BE RELOCATED TO NEW MAST ARMS.

REMOVAL NOTES:

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

- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 12 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD



DESIGNED	
DRAWN	
REVIEWED	

MODEL: Default
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USER NAME = Pearc00397	DESIGNED - TMA	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 40.0000 ' / in.	DRAWN - MOC/TMA	REVISED -
PLOT DATE = 4/14/2023	CHECKED - KNB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EDGEWOOD ROAD / WALKUP ROAD
SIGNAL PLAN**

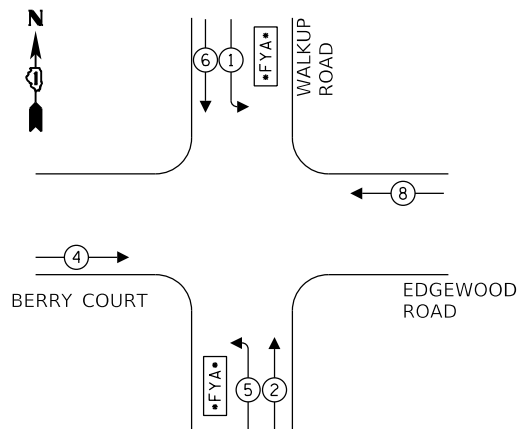
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	26
19L0111		CONTRACT NO.	61J51	
ILLINOIS FED. AID PROJECT				

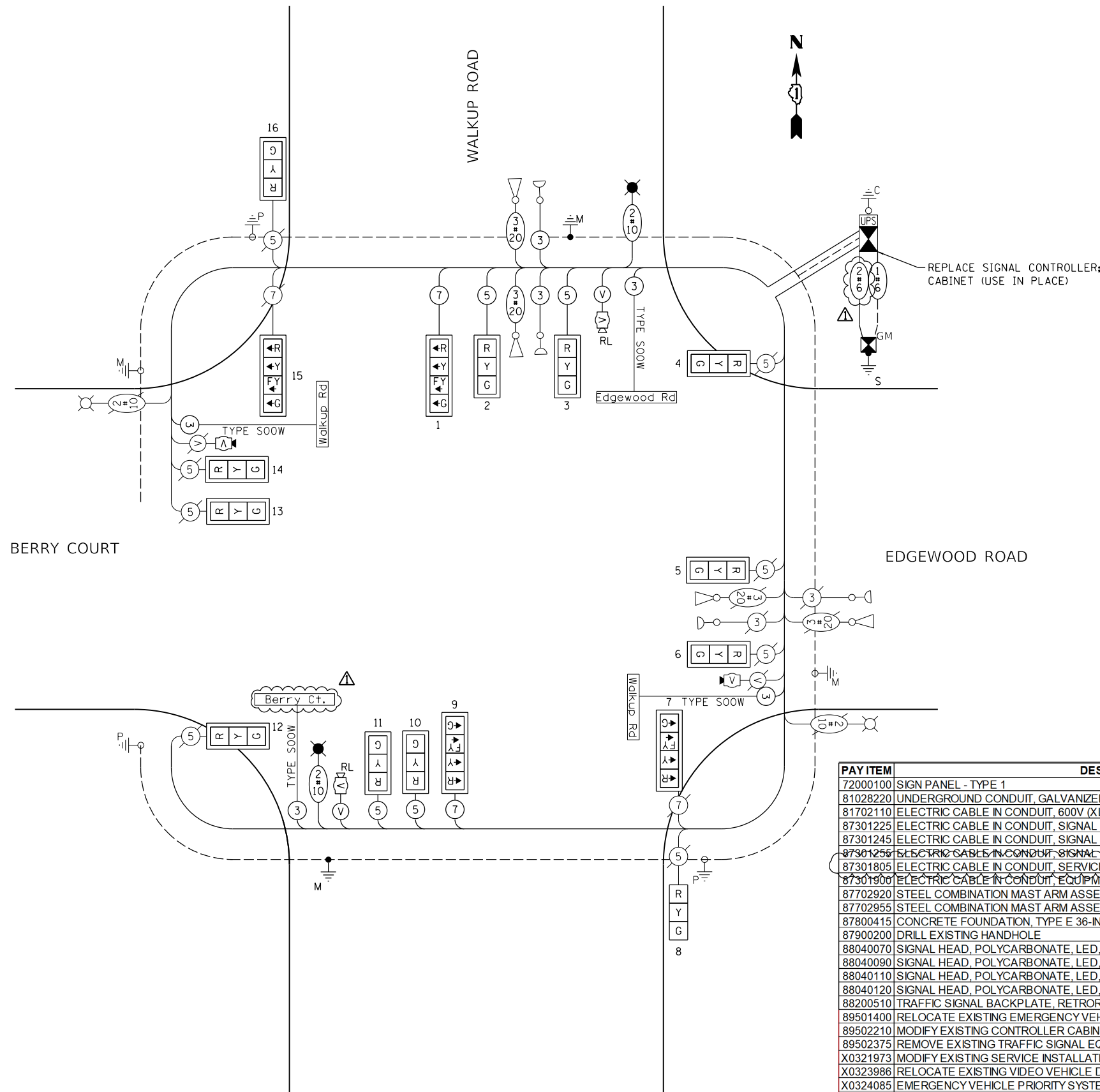
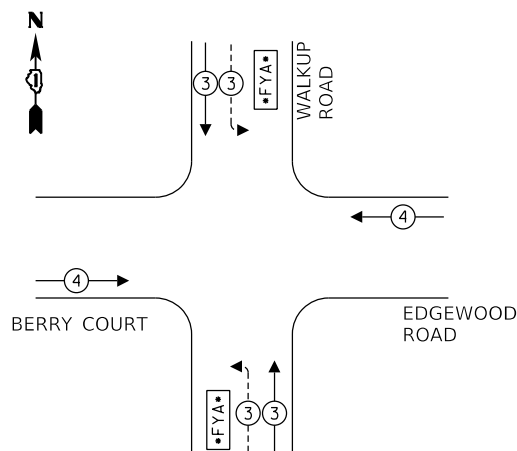


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PROPOSED PHASE DIAGRAM



**PROPOSED EMERGENCY VEHICLE
 PREEMPTION SEQUENCE**



REPLACE SIGNAL CONTROLLER;
 CABINET (USE IN PLACE)

**CABLE PLAN
 (NOT TO SCALE)**

**TRAFFIC SIGNAL INSTALLATION
 ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
FYA	4	10	45	18.0
TOTAL =				863.4

ENERGY COST - BILLED TO: McHENRY COUNTY
 2200 N. SEMINARY AVE.
 WOODSTOCK, IL 60098

ENERGY SUPPLY - CONTACT: LISA ARGAST
 PHONE: (630) 576-7094
 COMPANY: COMED

PAY ITEM	DESCRIPTION	UNIT	Quantity
72000100	SIGN PANEL - TYPE 1	SQ FT	30
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	922
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	196
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	806
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	439
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2 C	FOOT	41
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	70
87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
87702955	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 45 FT.	EACH	1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
87900200	DRILL EXISTING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	16
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	1
X0323986	RELOCATE EXISTING VIDEO VEHICLE DETECTOR	EACH	2
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	196
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	120
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
X1400238	LUMINAIRE, LED, SPECIAL	EACH	2
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
X8809005	LED SIGNAL FACE, LENS COVER	EACH	16
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4

DESIGNED	USER NAME = Pearn00397	DESIGNED -	REVISED - 4/13/23 ADDENDUM
DRAWN		DRAWN -	REVISED -
REVIEWED		CHECKED -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	DATE -	REVISED -
	PLOT DATE = 4/14/2023		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**EDGEWOOD ROAD / WALKUP ROAD
 WIRING DIAGRAM**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	27
	19L0111		CONTRACT NO.	61J51

HPS1

ILLINOIS FED. AID PROJECT

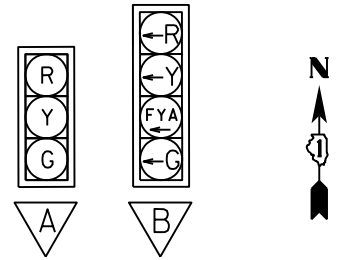
GENERAL NOTES:

ALL EXISTING SIGNAL HEADS SHALL BE REPLACED.
EVP AND VIDEO DETECTION EQUIPMENT TO BE RELOCATED TO NEW MAST ARM.

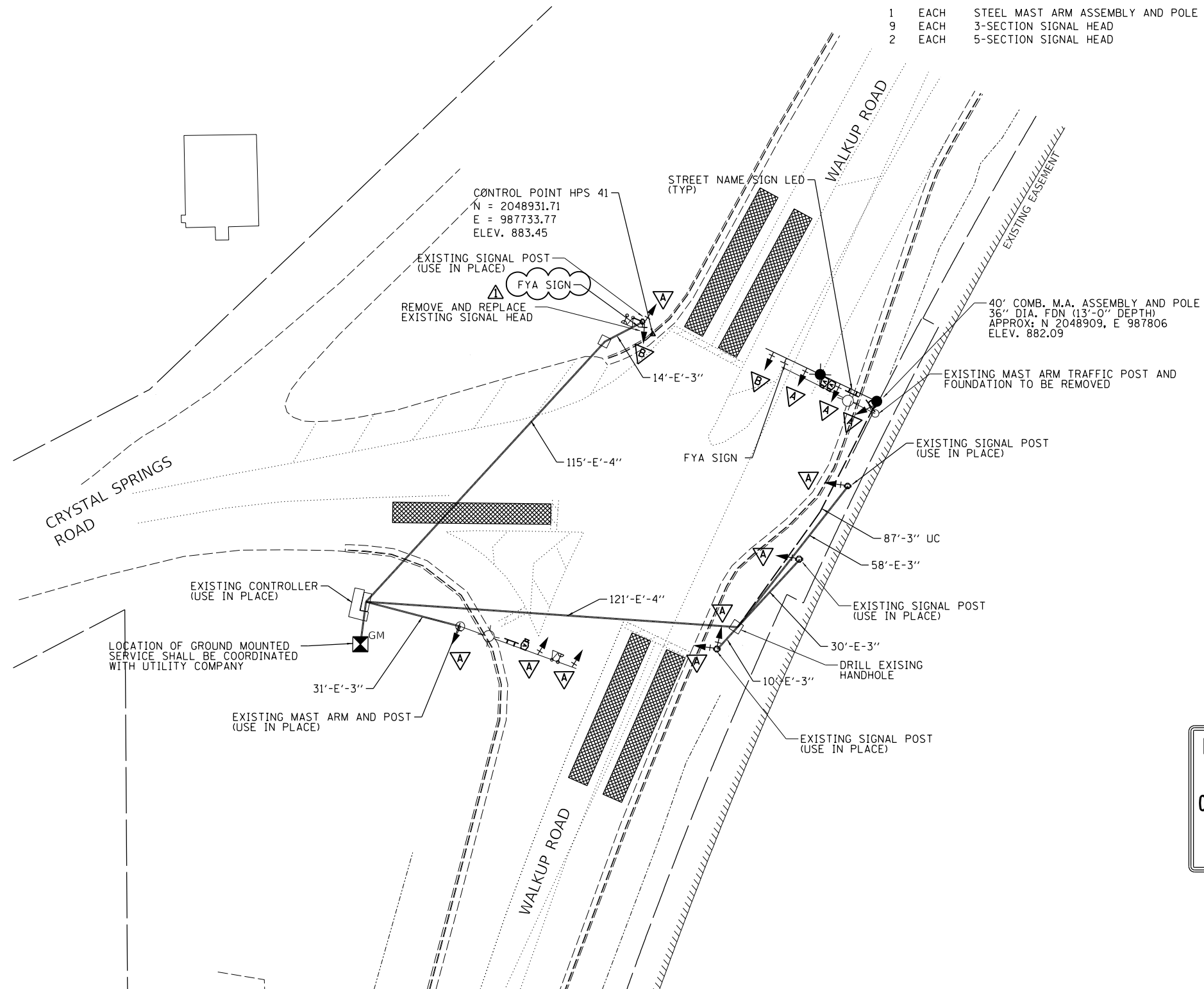
REMOVAL NOTES:

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

- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 9 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD



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DESIGNED	
DRAWN	
REVIEWED	

USER NAME = Pearc00397	DESIGNED - TMA	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 40.0000 ' / in.	DRAWN - MOC/TMA	REVISED -
PLOT DATE = 4/14/2023	CHECKED - KNB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CRYSTAL SPRINGS ROAD / CRYSTAL LAKE ROAD
SIGNAL PLAN**

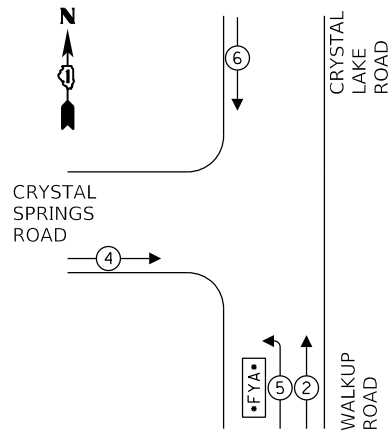
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ILLINOIS FED. AID PROJECT				

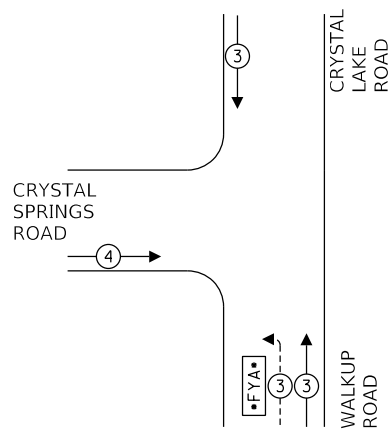


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PROPOSED PHASE DIAGRAM



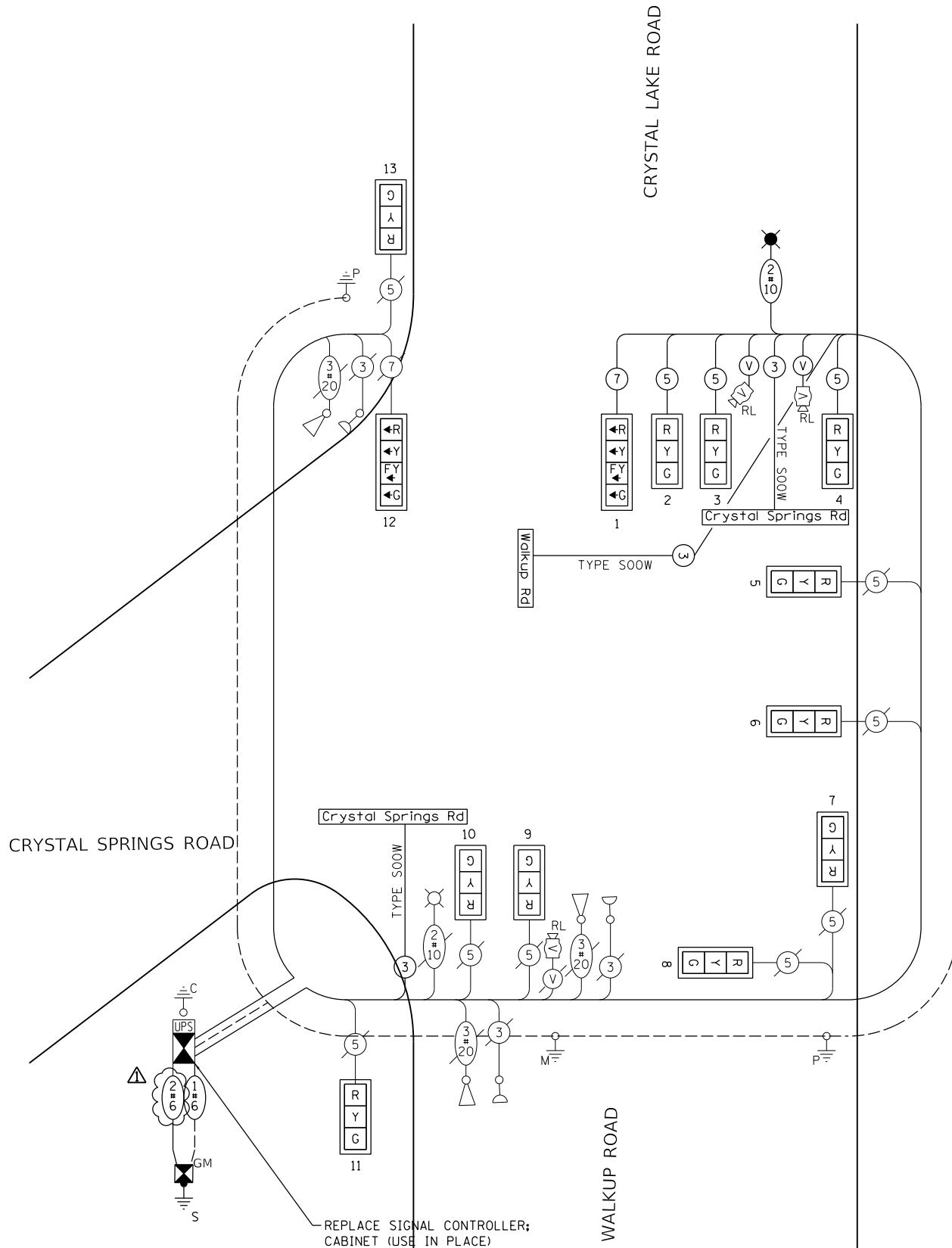
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE	
SIGNAL	(RED)	13	11	50	71.5
	(YELLOW)	13	20	5	13.0
	(GREEN)	13	12	45	70.2
	FYA	2	10	45	9.0
CONTROLLER				100.0	
UPS				25.0	
VIDEO DETECTION				150.0	
LUMINAIRE				190.0	
TOTAL =				628.7	

ENERGY COST - BILLED TO: McHENRY COUNTY
2200 N. SEMINARY AVE.
WOODSTOCK, IL 60098

ENERGY SUPPLY - CONTACT: LISA ARGAST
PHONE: (630) 576-7094
COMPANY: COMED



CABLE PLAN (NOT TO SCALE)

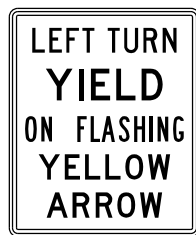
PAY ITEM	DESCRIPTION	UNIT	Quantity
72000100	SIGN PANEL - TYPE 1	SQ FT	15
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	87
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	617
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	823
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	304
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	40
87301800	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	97
87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
87900200	DRILL EXISTING HANDHOLE	EACH	1
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	13
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	1
X0323986	RELOCATE EXISTING VIDEO VEHICLE DETECTOR	EACH	2
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	121
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
X1400238	LUMINAIRE, LED, SPECIAL	EACH	1
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
X8809005	LED SIGNAL FACE, LENS COVER	EACH	13
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3

DESIGNED	USER NAME = Pearc00397	DESIGNED -	REVISED - 4/13/23 ADDENDUM
DRAWN		DRAWN -	REVISED -
REVIEWED		CHECKED -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	DATE -	REVISED -
	PLOT DATE = 4/14/2023		

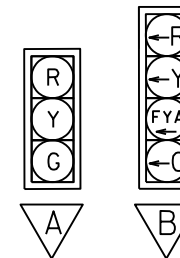
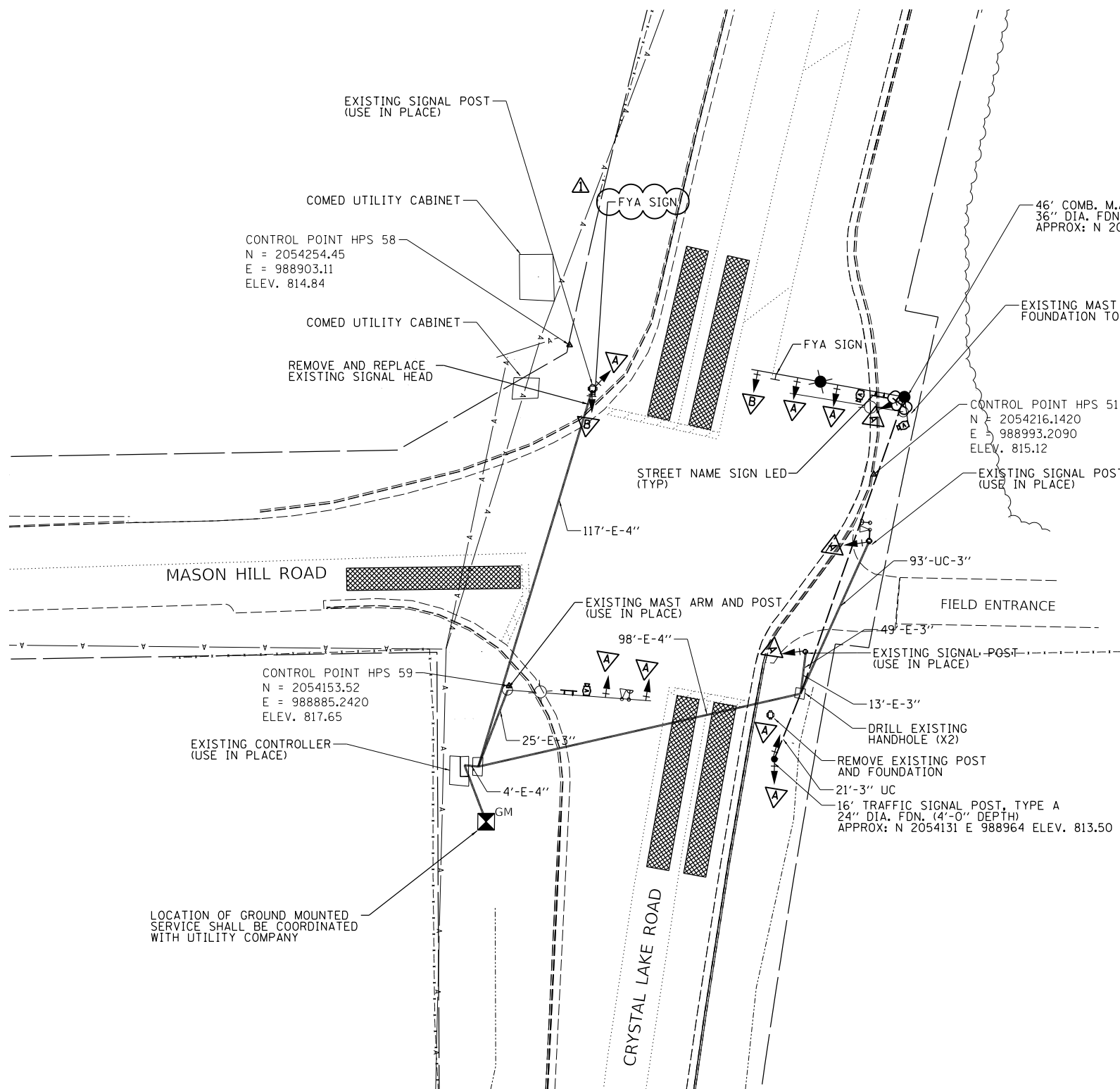
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CRYSTAL SPRINGS ROAD / CRYSTAL LAKE ROAD WIRING DIAGRAM			HPS1	
SCALE:	SHEET	OF SHEETS	STA.	TO STA.	F.A.U. RTE.	TOTAL SHEETS
					0085	45
					19-00511-00-SP	29
					McHENRY	
					19L0111	CONTRACT NO.
					ILLINOIS	61J51
					FED. AID PROJECT	



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FYA SIGN
 2 REQUIRED



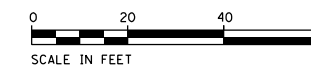
REMOVAL NOTES:

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

- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 2 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD

GENERAL NOTES:

ALL EXISTING SIGNAL HEADS SHALL BE REPLACED.
 EVP AND VIDEO DETECTION EQUIPMENT TO BE RELOCATED TO NEW MAST ARM.



DESIGNED	
DRAWN	
REVIEWED	

USER NAME = Pearc00397	DESIGNED - TMA	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 40.0000 ' / in.	DRAWN - MOC/TMA	REVISED -
PLOT DATE = 4/14/2023	CHECKED - KNB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MASON HILL ROAD / CRYSTAL LAKE ROAD
 SIGNAL PLAN

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

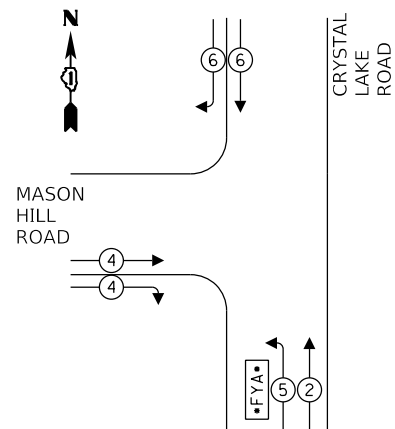
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	30
19L0111			CONTRACT NO.	61J51

ILLINOIS FED. AID PROJECT

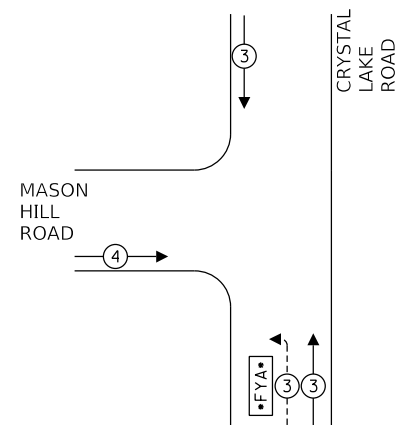


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PROPOSED PHASE DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

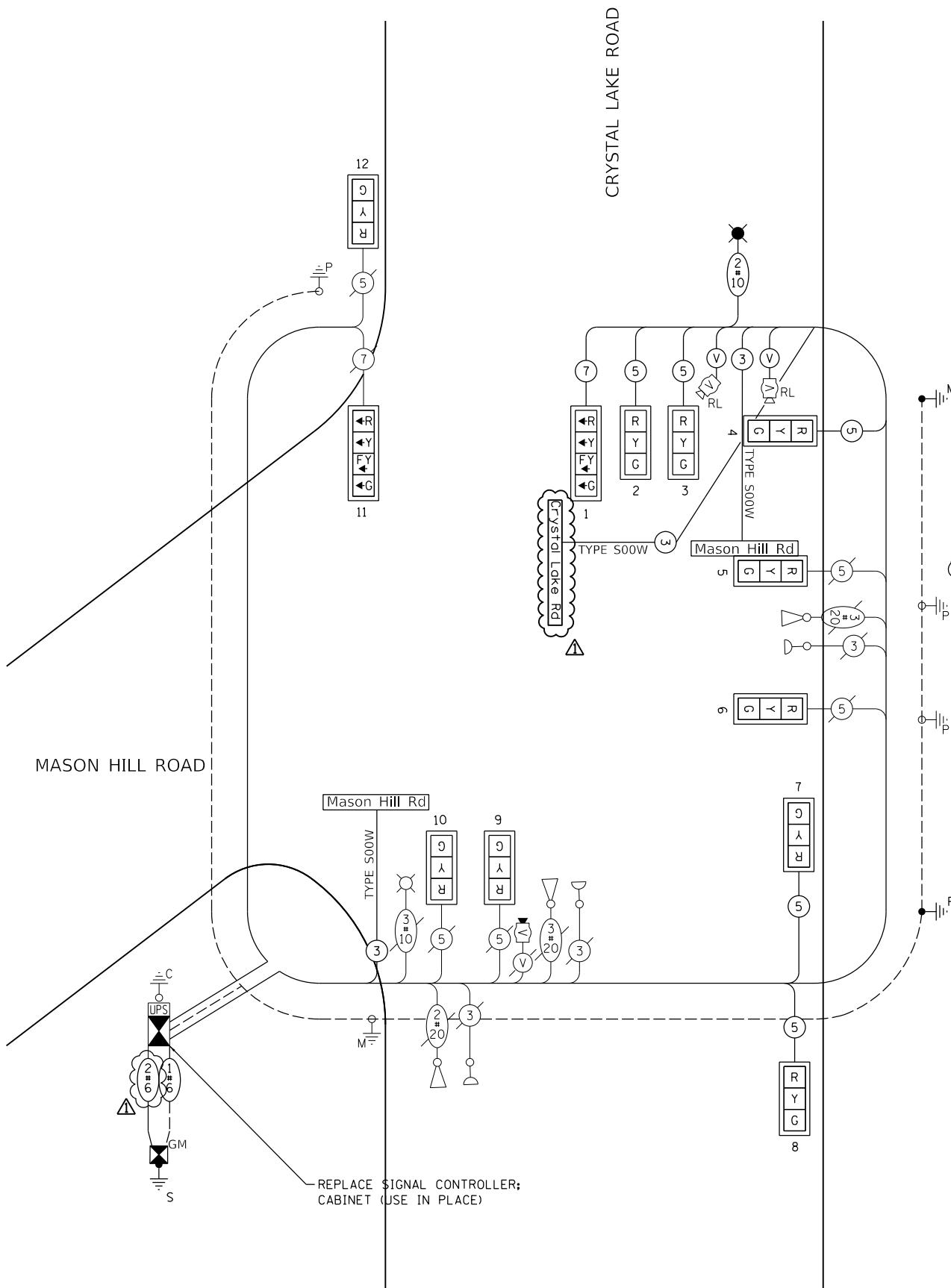


TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
FYA	2	10	45	9.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO DETECTION	1	150	100	150.0
LUMINAIRE	2	190	50	190.0
TOTAL =				616.8

ENERGY COST - BILLED TO: McHENRY COUNTY
 2200 N. SEMINARY AVE.
 WOODSTOCK, IL 60098

ENERGY SUPPLY - CONTACT: LISA ARGAST
 PHONE: (630) 576-7094
 COMPANY: COMED



CABLE PLAN (NOT TO SCALE)

PAY ITEM	DESCRIPTION	UNIT	Quantity
72000100	SIGN PANEL - TYPE 1	SQ FT	15
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	114
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	581
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	927
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	286
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	44
87301800	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	103
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-NCH DIAMETER	FOOT	13
87900200	DRILL EXISTING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	1
X0323986	RELOCATE EXISTING VIDEO VEHICLE DETECTOR	EACH	2
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	102
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
X1400238	LUMINAIRE, LED, SPECIAL	EACH	1
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
X8809005	LED SIGNAL FACE, LENS COVER	EACH	12
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3

DESIGNED	
DRAWN	
REVIEWED	

USER NAME = Pearc00397	DESIGNED -	REVISED - 4/13/23 ADDENDUM
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 4/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MASON HILL ROAD / CRYSTAL LAKE ROAD WIRING DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 0085	SECTION 19-00511-00-SP	COUNTY McHENRY	TOTAL SHEETS 45	SHEET NO. 31
CONTRACT NO. 19L0111			61J51	

HPS1

ILLINOIS FED. AID PROJECT

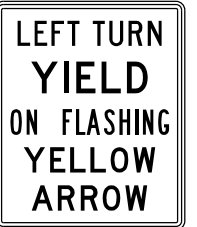
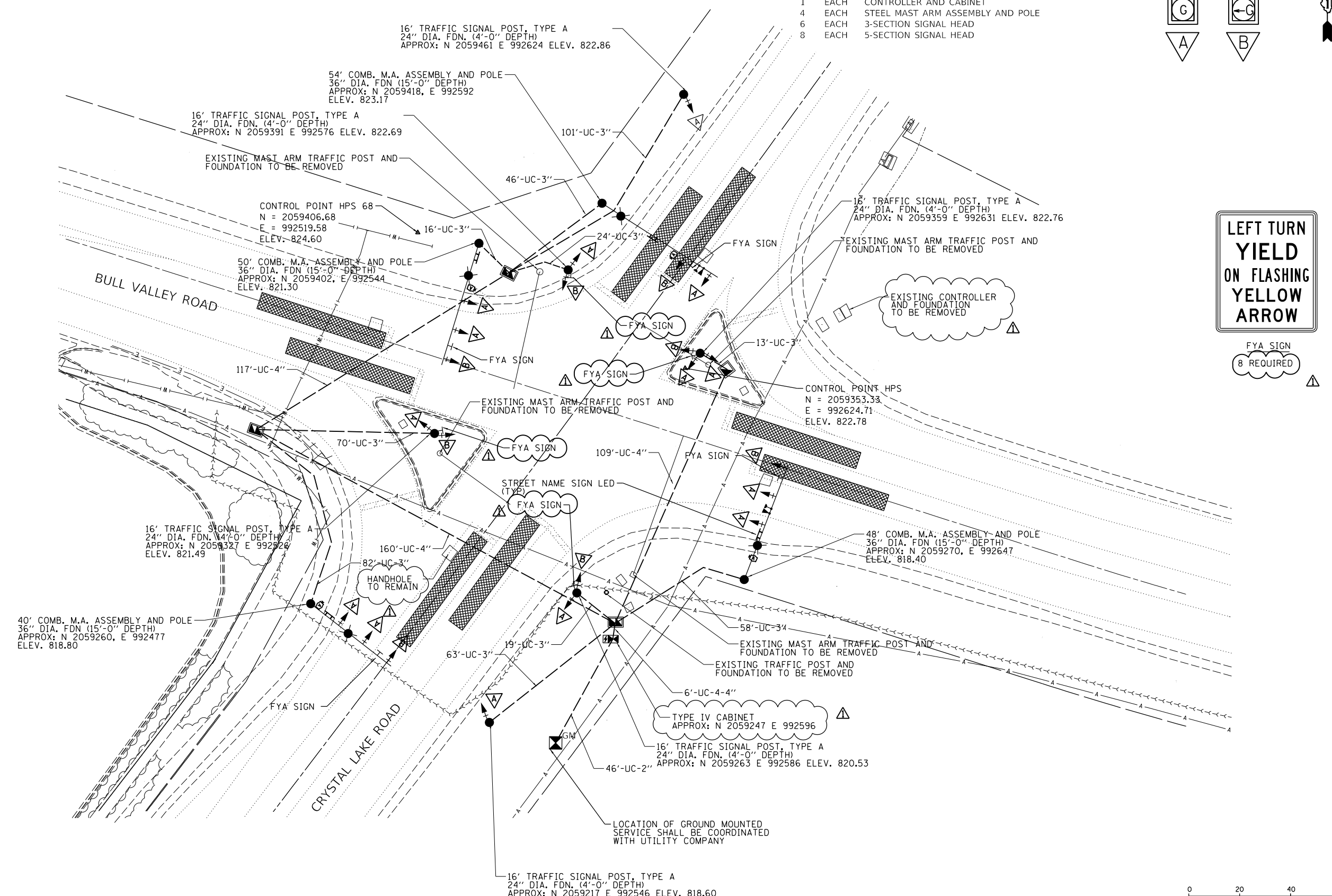
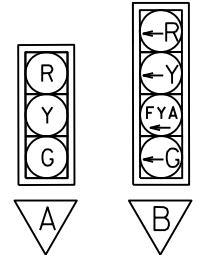


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REMOVAL NOTES:

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

- 1 EACH CONTROLLER AND CABINET
- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 6 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD



FYA SIGN 8 REQUIRED



DESIGNED	
DRAWN	
REVIEWED	

USER NAME = Pearc00397	DESIGNED - TMA	REVISED - 4/13/23 ADDENDUM
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PLOT DATE = 4/14/2023	CHECKED - KNB	REVISED -
	DATE -	REVISED -

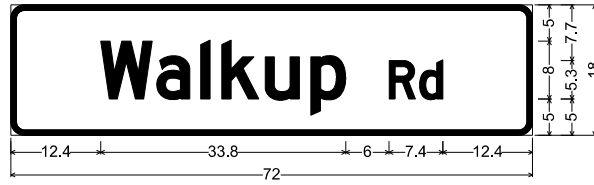
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BULL VALLEY ROAD / CRYSTAL LAKE ROAD
SIGNAL PLAN

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

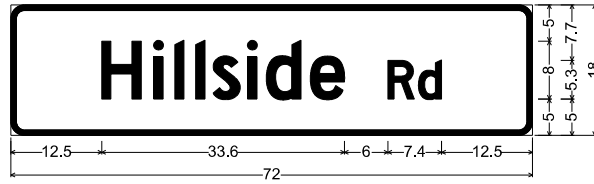
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	32
19L0111		CONTRACT NO.		61J51

ILLINOIS FED. AID PROJECT



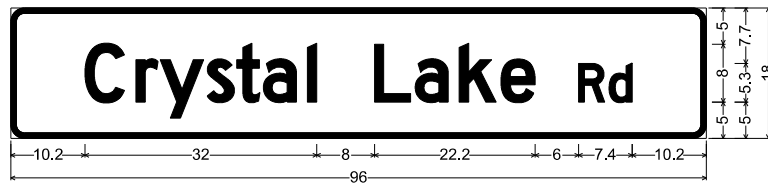
D3-1(3)_VARx18;
1.9" Radius, 0.8" Border, White on, Green;
"Walkup", D 2K; "Rd", D 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	9	ILLUM. SIGN (ZZ)	7



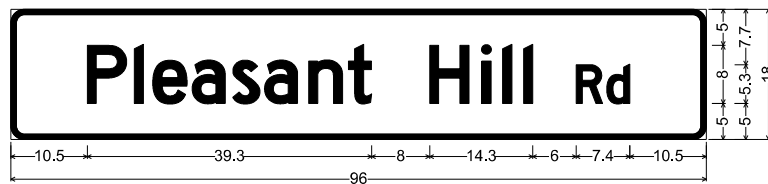
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"Hillside", D 2K; "Rd", D 2K;

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



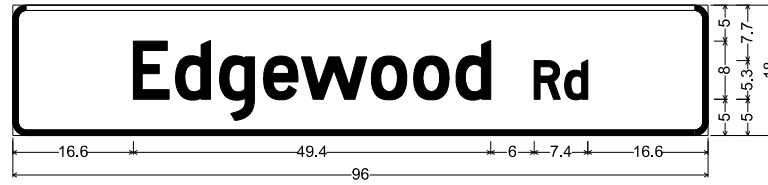
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1.9" Radius, 0.8" Border, White on, Green;
"Crystal Lake", D 2K; "Rd", D 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	12	ILLUM. SIGN (ZZ)	3



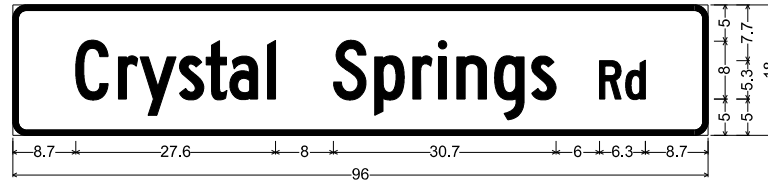
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1.9" Radius, 0.8" Border, White on, Green;
"Pleasant Hill", D 2K; "Rd", D 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	12	ILLUM. SIGN (ZZ)	1



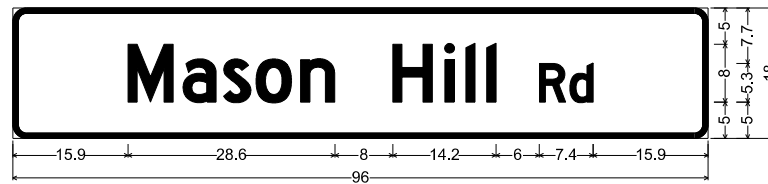
D3-1(3)_VARx18;
1.9" Radius, 0.8" Border, White on, Green;
"Edgewood", D 2K; "Rd", D 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	12	ILLUM. SIGN (ZZ)	1



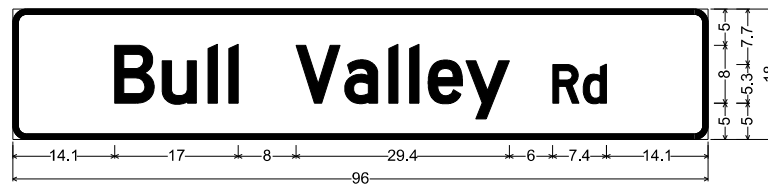
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"Crystal Springs", C 2K; "Rd", C 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	12	ILLUM. SIGN (ZZ)	2



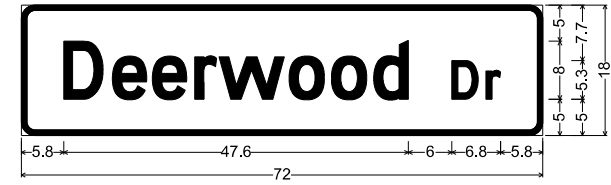
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"Mason Hill", D 2K; "Rd", D 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	12	ILLUM. SIGN (ZZ)	2



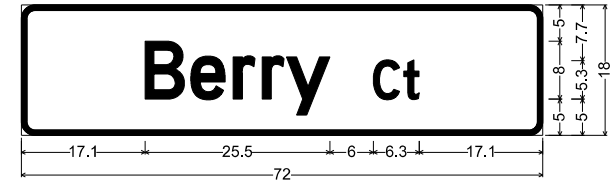
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1.9" Radius, 0.8" Border, White on, Green;
"Bull Valley", D 2K; "Rd", D 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	12	ILLUM. SIGN (ZZ)	2



D3-1(3)_VARx18;
1.9" Radius, 0.8" Border, White on, Green;
"Deerwood", D 2K; "Dr", D 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	9	ILLUM. SIGN	1



D3-1(3)_VARx18;
1.9" Radius, 0.8" Border, White on, Green;
"Berry", D 2K; "Ct", D 2K;

DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	9	ILLUM. SIGN	1

DESIGNED	
DRAWN	
REVIEWED	

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USER NAME = Pearc00397	DESIGNED -	REVISED -
PLOT SCALE = 2,0000 ' / in.	DRAWN - NN	REVISED -
PLOT DATE = 4/14/2023	CHECKED - JAP	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LED ILLUMINATED
STREET NAME SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

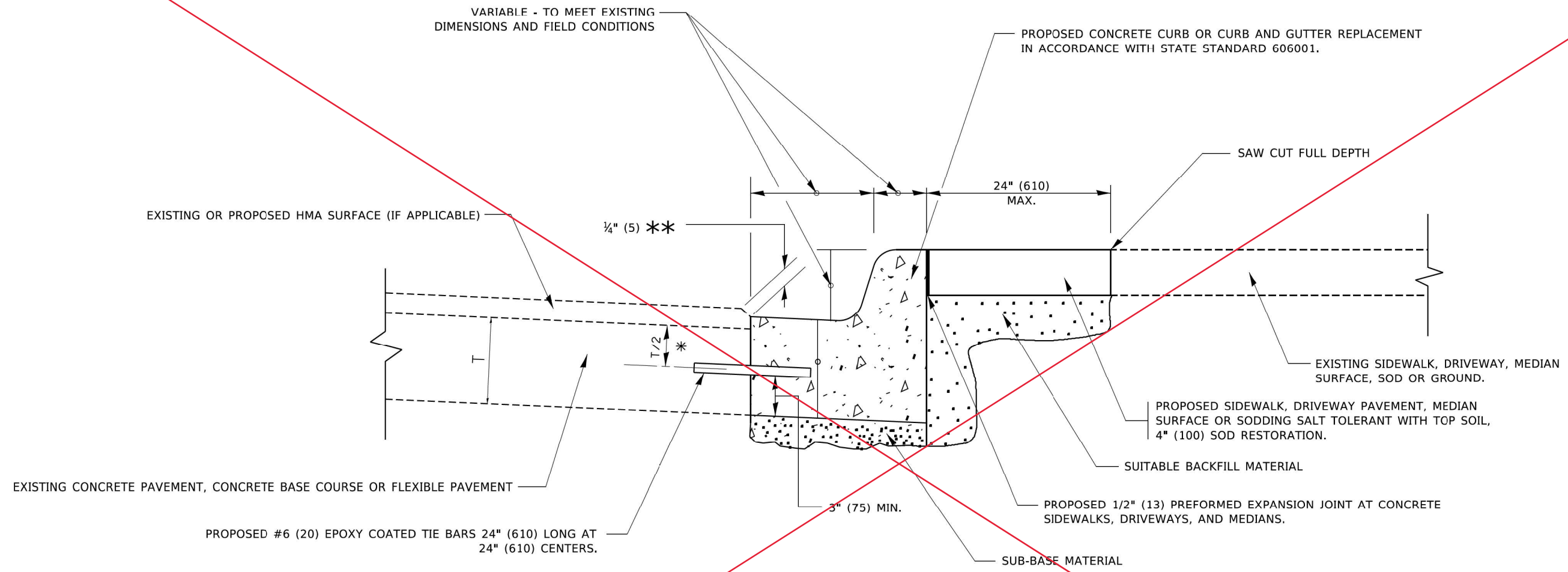
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	34
	19L0111			CONTRACT NO. 61J51

HPS1

ILLINOIS FED. AID PROJECT

PENTABLE NAME = ...\\pen\LargeFormat_Plotter.tbl

PLOT DRIVER NAME = ...\\HANSON.pdf_300dpi.pltcf



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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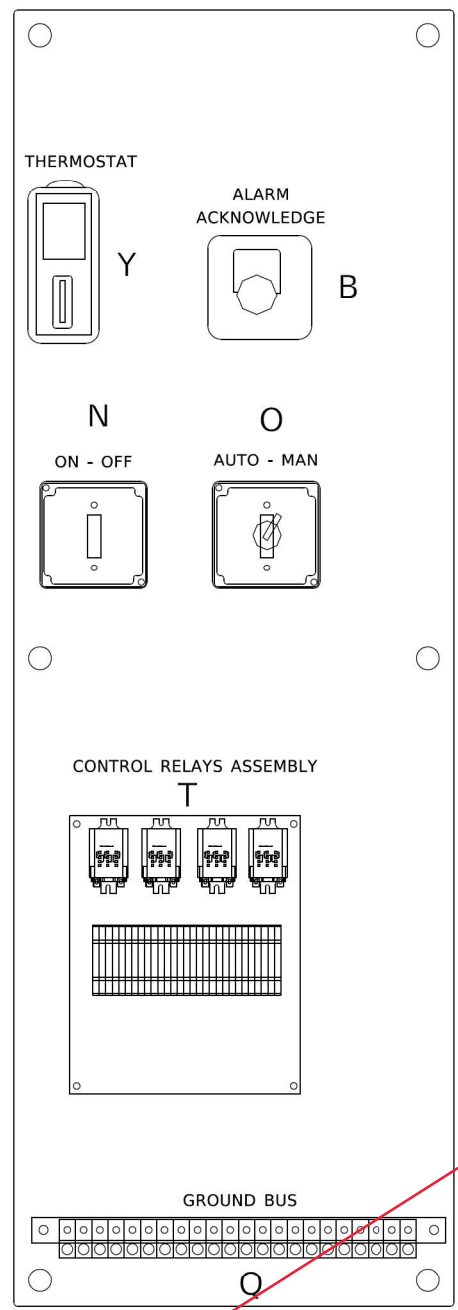
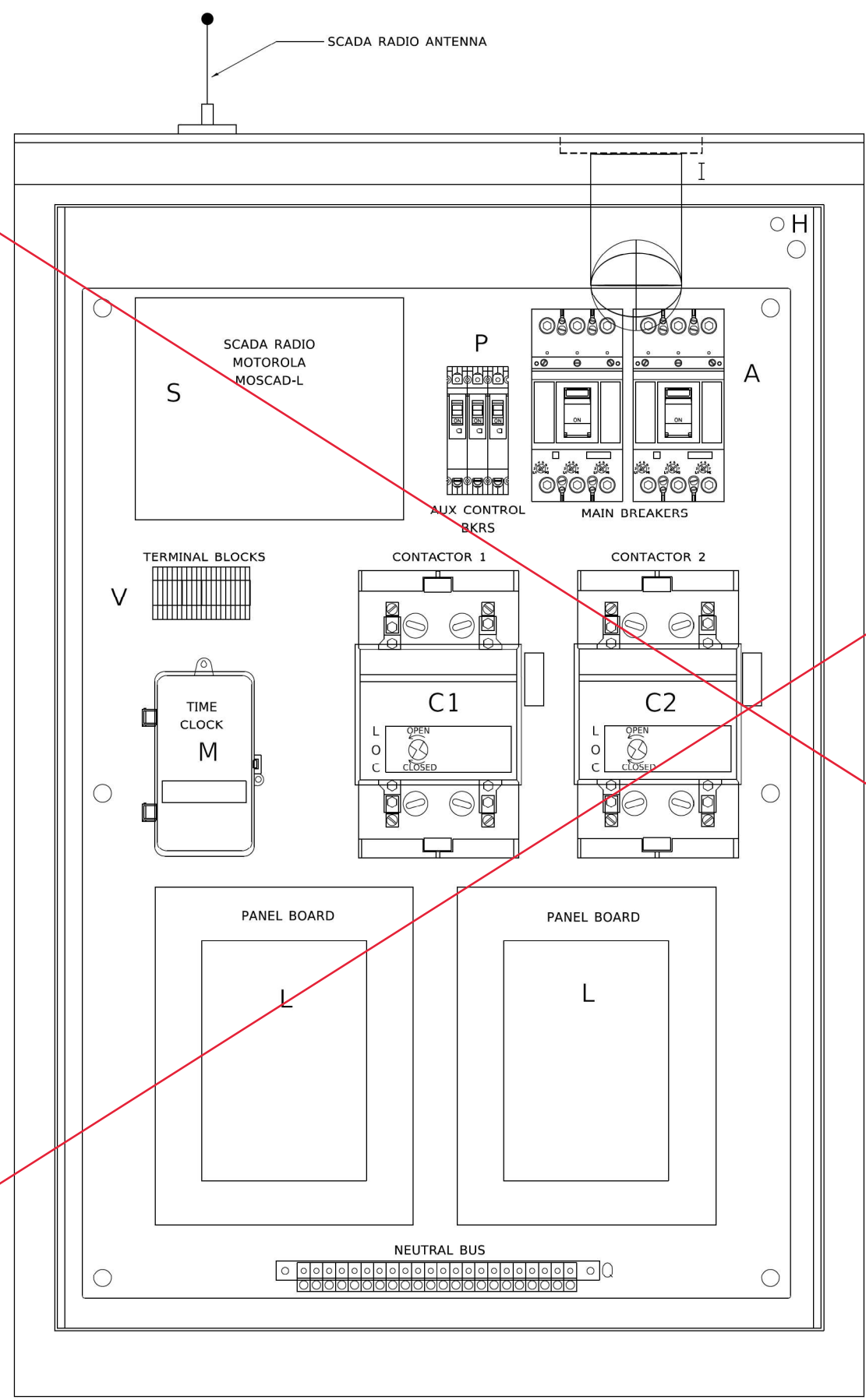
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PLOT SCALE	= 50.0000' / in.	CHECKED	-	REVISED	R. BORO 12-15-09
PLOT DATE	= 7/11/2019	DATE	= 03-11-94	REVISED	K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

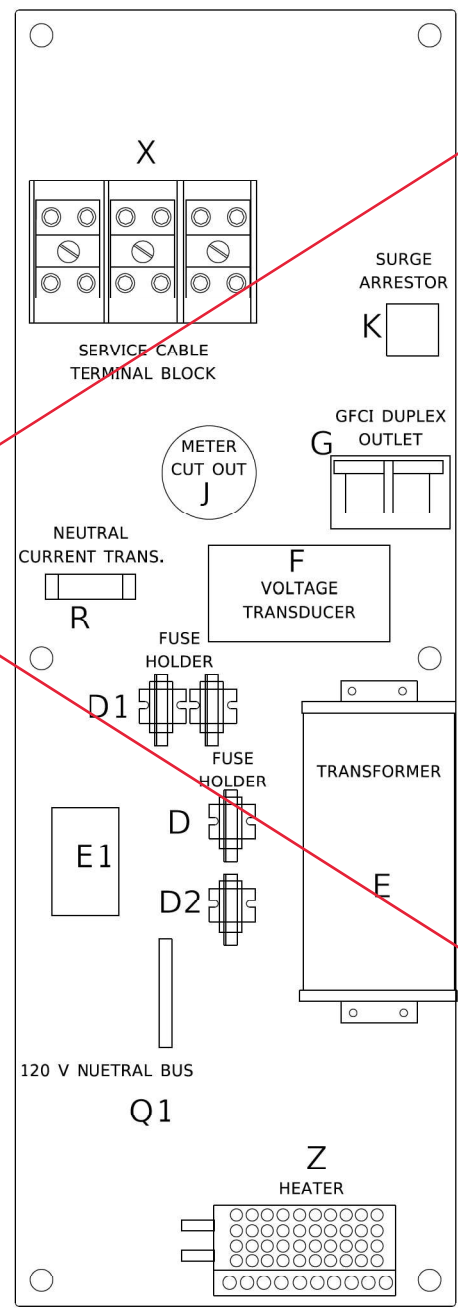
**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

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

F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	35
BD600-06 (BD-24)			CONTRACT NO. 61J51	
ILLINOIS FED. AID PROJECT				



LEFT SIDE PANEL



RIGHT SIDE PANEL

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2 *	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T *	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X *	1	620 AMP SPICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

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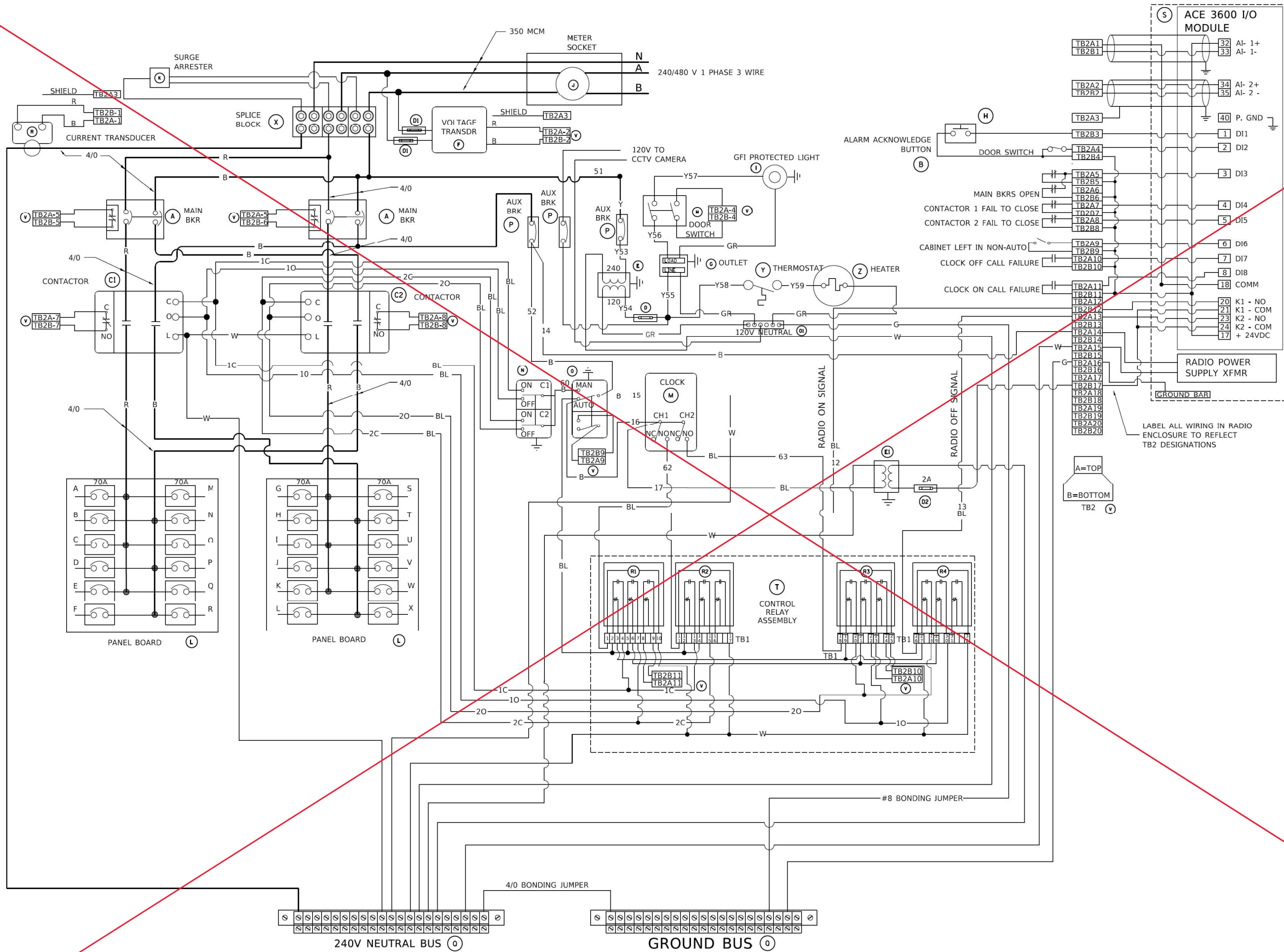
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PLOT SCALE = 50.0000" / ft.	DRAWN -	REVISED - R. TOMSONS 05-11-09
PLOT DATE = 4/19/2019	CHECKED -	REVISED - R. TOMSONS 03-10-10
	DATE -	REVISED - R. TOMSONS 03-29-12

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA**

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19-00511-00-SP	McHENRY	45	36
BE-205		CONTRACT NO. 61J51	
ILLINOIS FED. AID PROJECT			



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001K511BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

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 PROJECT - ...

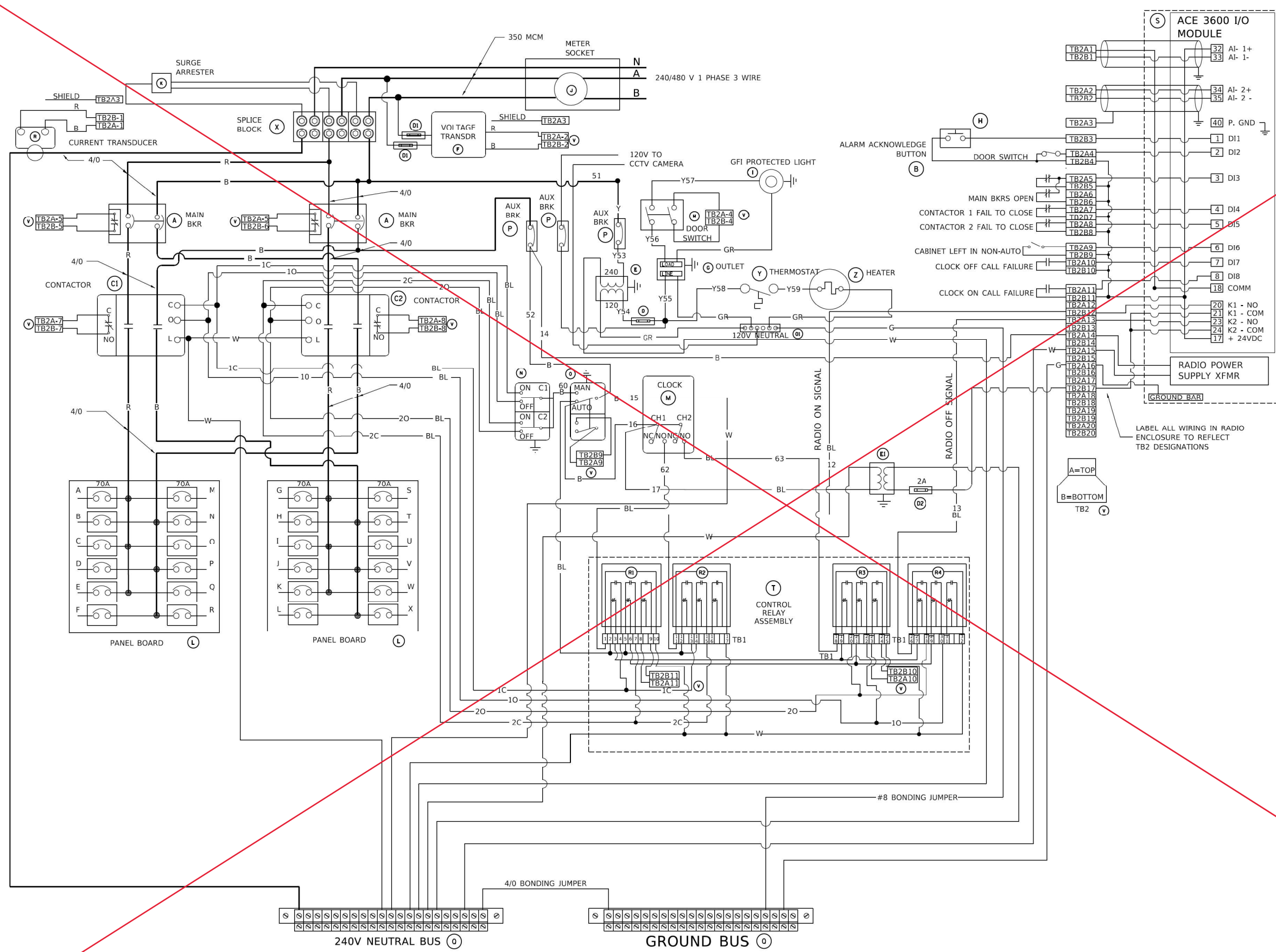
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	DRAWN -	REVISED - R. TOMSONS 05-11-09
PLOT SCALE = 50.0000" / ft.	CHECKED -	REVISED - R. TOMSONS 03-10-10
PLOT DATE = 4/19/2019	DATE -	REVISED - R. TOMSONS 03-29-12

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA**

P.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	37
BE-205		CONTRACT NO. 61J51		
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001K511BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

MODE: D:\proj\11\110011\110011.dwg
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 PLOT DATE = 4/19/2019

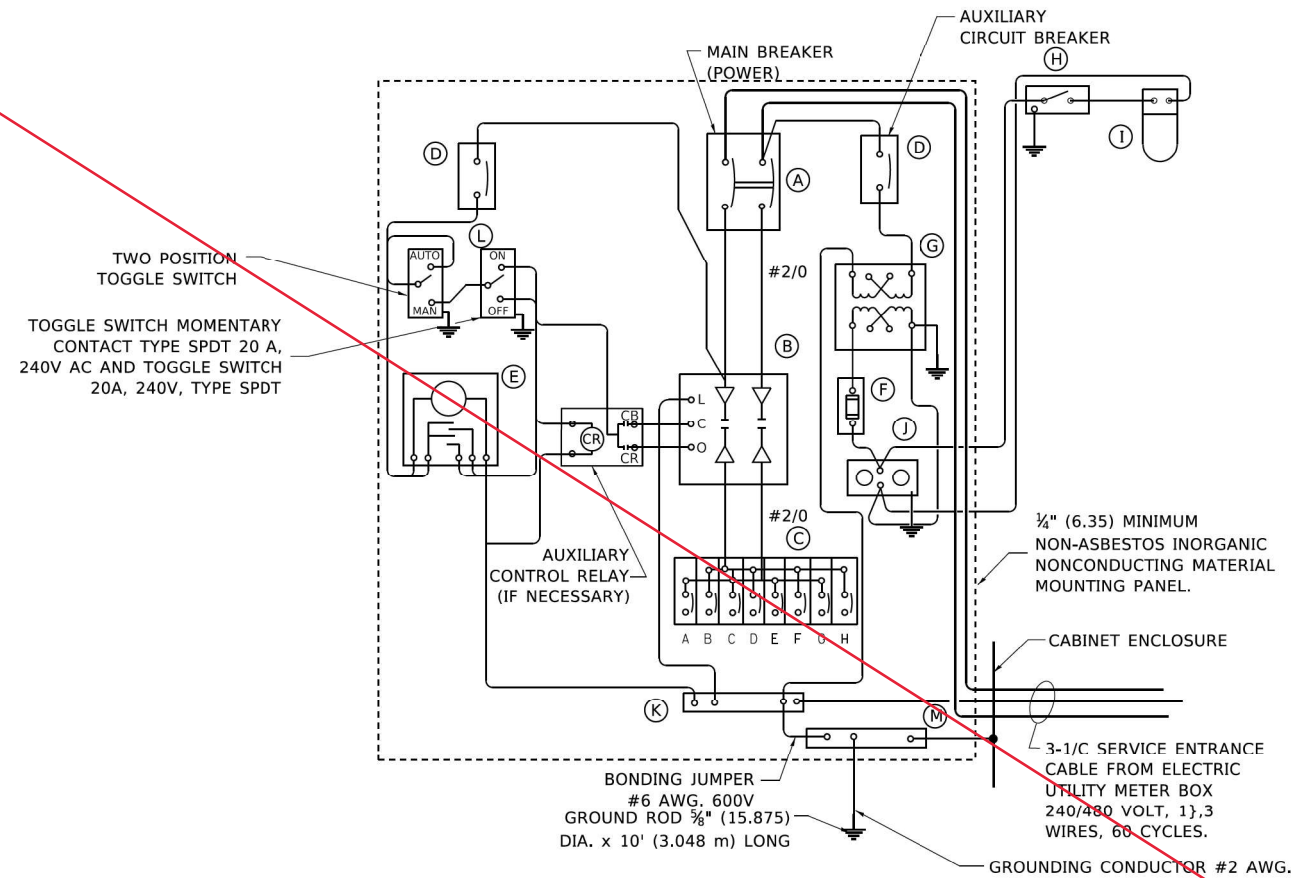
DESIGNED -	REVISIONS
DRAWN -	01 - R. TOMSONS 08-19-04
CHECKED -	02 - R. TOMSONS 05-11-09
DATE -	03 - R. TOMSONS 03-10-10
	04 - R. TOMSONS 03-29-12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

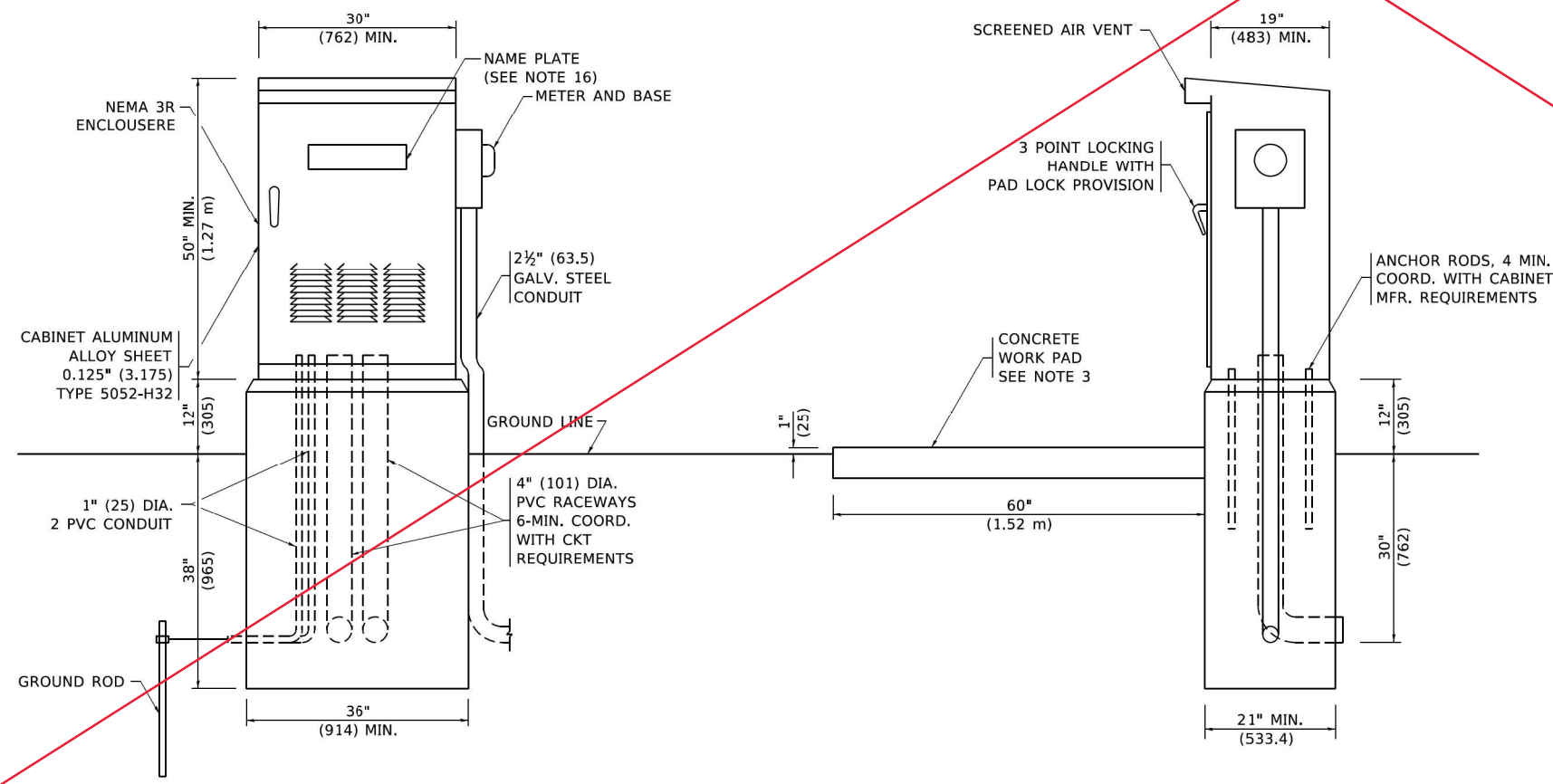
RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	38
BE-205			CONTRACT NO. 61J51	
ILLINOIS FED. AID PROJECT				



PANEL WIRING DIAGRAM

PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER. 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH).
F	1	20 AMP, 120 VOLT FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 AMP, 120 VOLT, DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1#4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1#4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.



NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) X 60" (18288 mm) X 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1#4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.I. STD. 508 AND BEAR THE U.I. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

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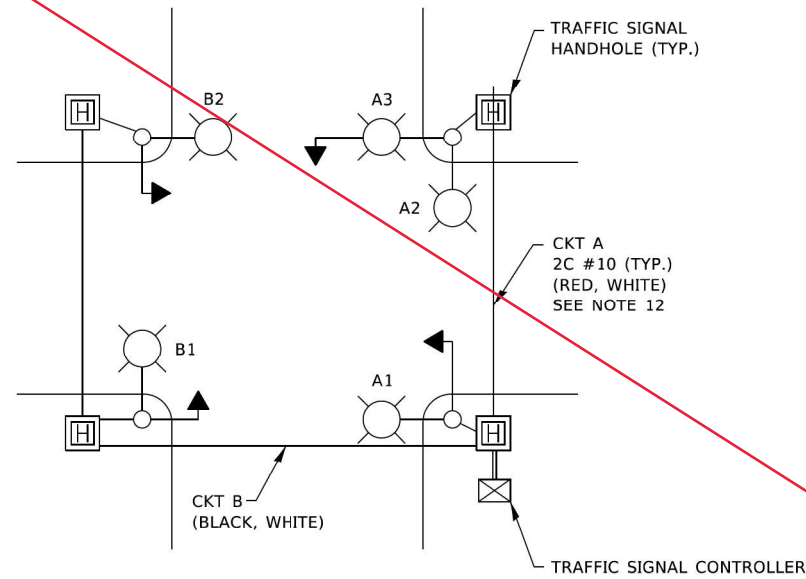
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DRAWN -	08-20-04
CHECKED -	
DATE -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

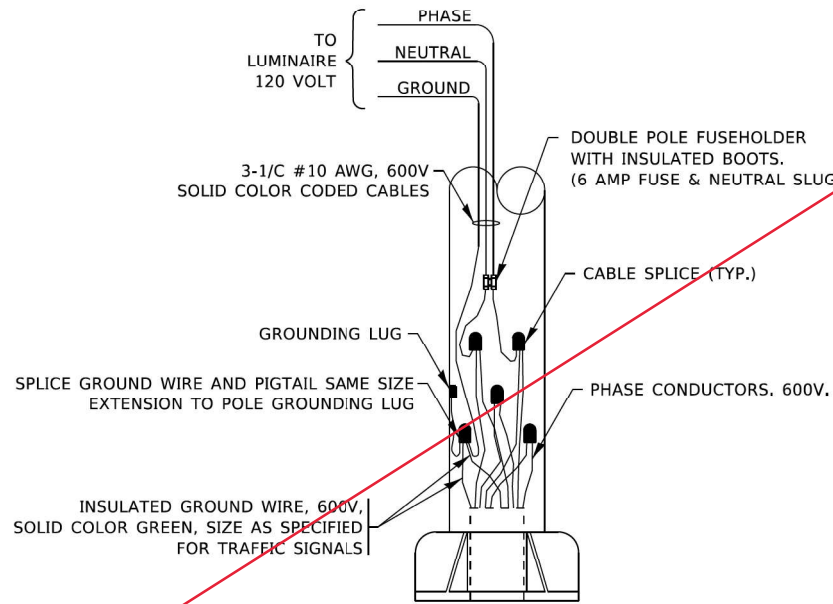
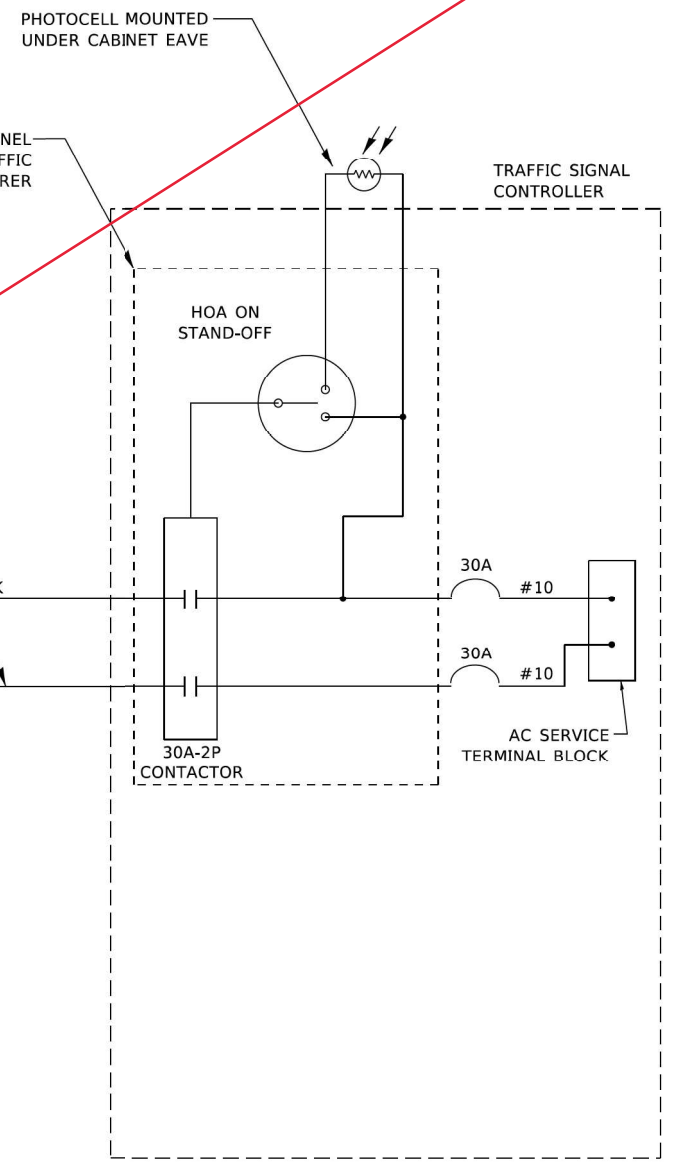
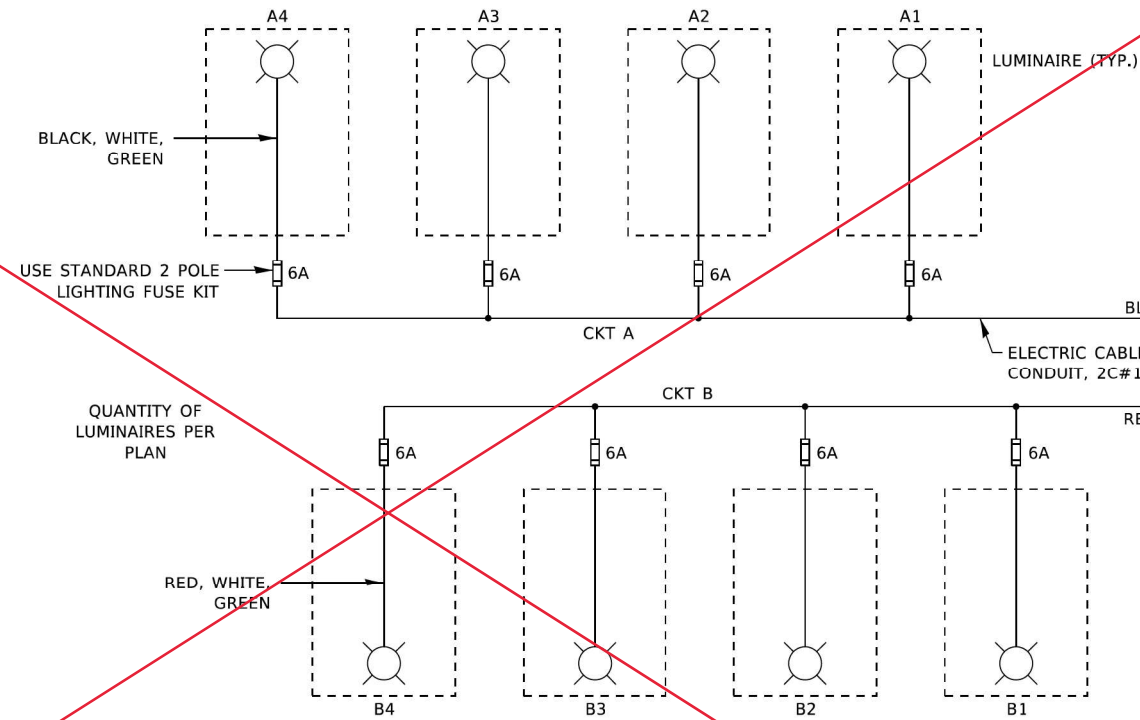
**LIGHTING CONTROLLER
SINGLE DOOR**

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19-00511-00-SP	McHENRY	45	40
BE-215		CONTRACT NO. 61J51	
ILLINOIS FED. AID PROJECT			



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.

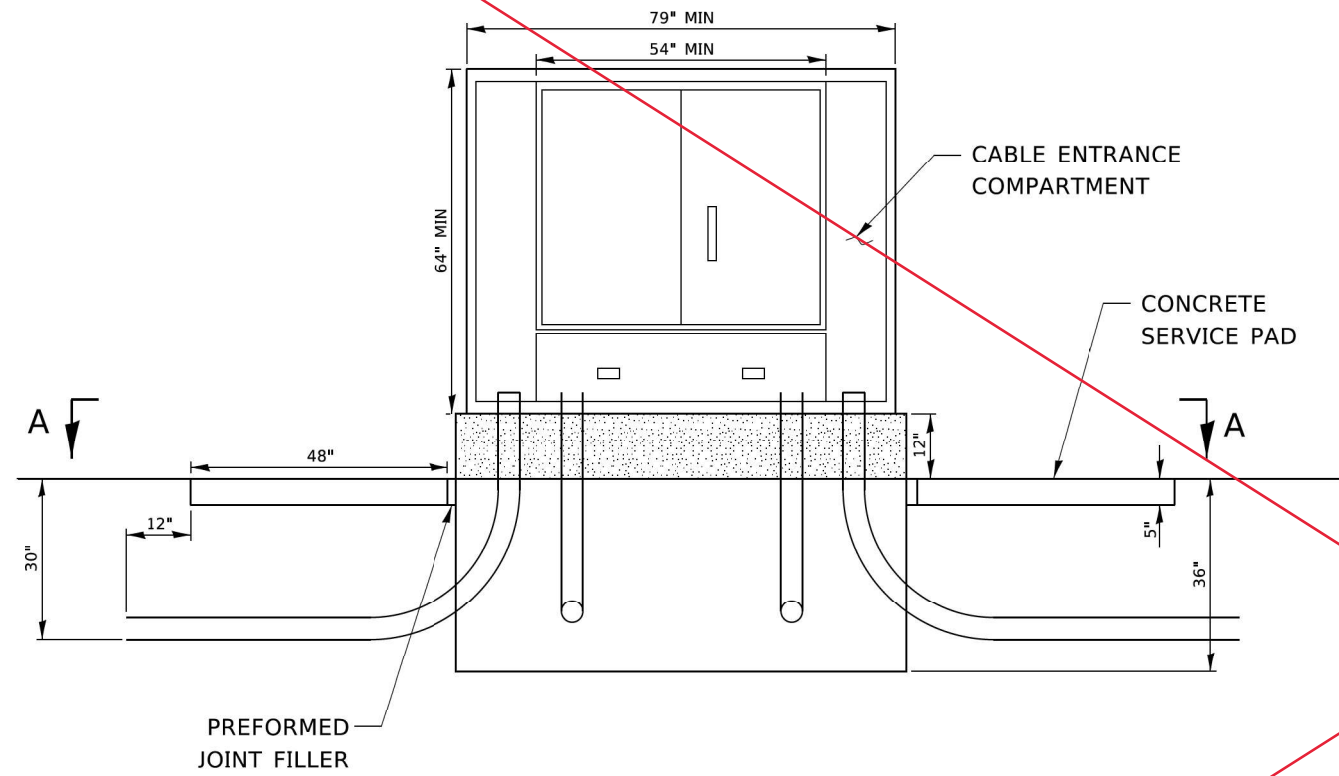
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DRAWN - RT	1. T.G. 4/12/2017
CHECKED - RT	2. R. TOMSONS 3/22/18
DATE - 08/18/2014	3. T.G. 8/03/2021
	4. T.G. 5/05/2022

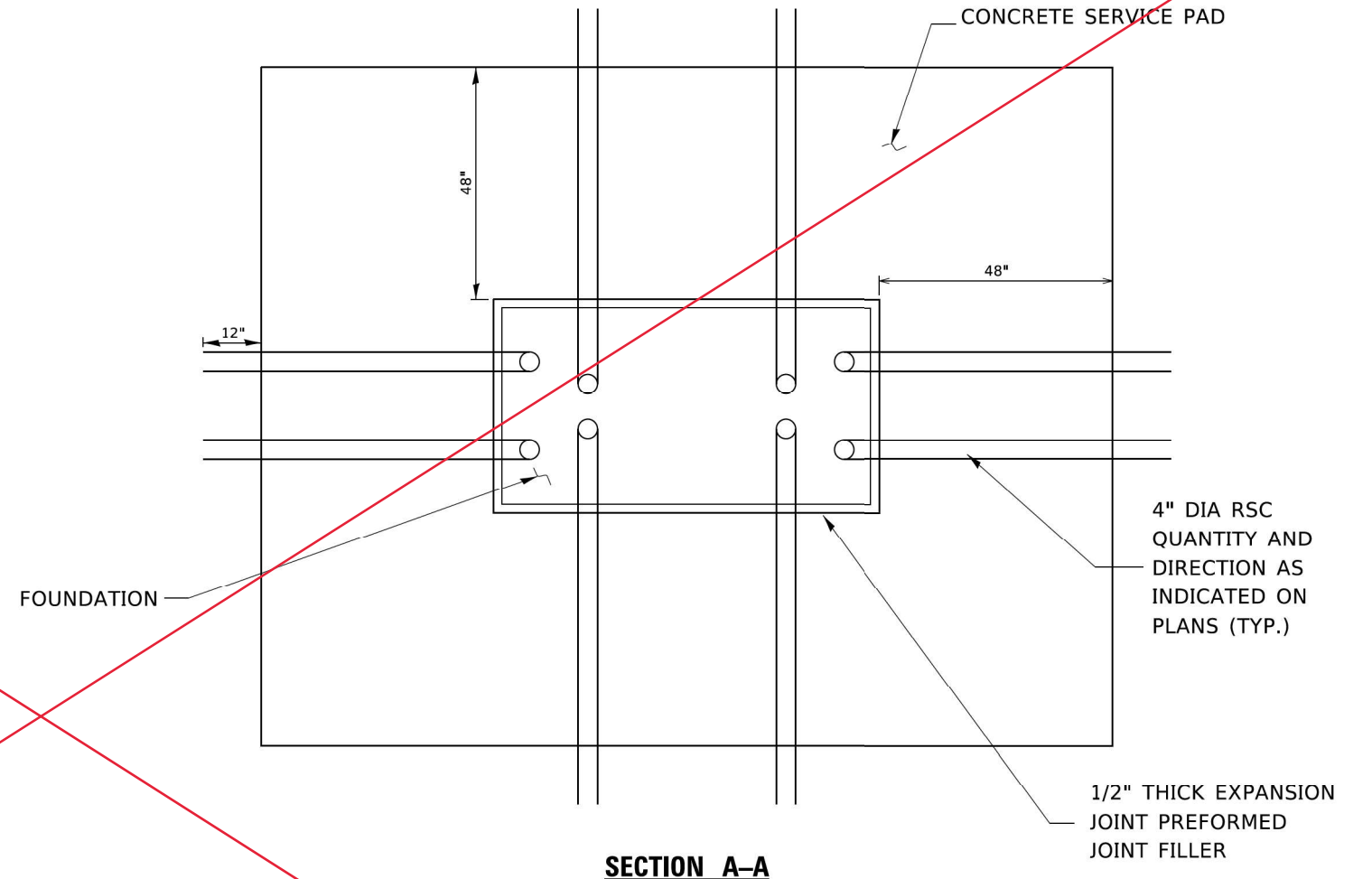
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

E.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	41
BE-240			CONTRACT NO. 61J51	
ILLINOIS FED. AID PROJECT				



ELEVATION VIEW



SECTION A-A

NOTES:

CABINET:
ALUMINUM 5052-H32

HARDWARE:
TYPE 304 STAINLESS STEEL

FINISH:
POLYESTER POWDER COATED GRAY

RACKS:
3/16" STEEL E.I.A. / T.I.A. SPACING (10-32 THREADS)

DOORS:
3 POINT LATCH, LATCH CONTROL SWITCH, PIANO HINGE, WIND STOP

CABLE ENTRANCE COMPARTMENT:
FOUR SLACK STORAGE BRACKETS WITH HEAVY DUTY VELCRO STRAPS TO SECURE CABLES,
TWO ENTRY HOLES FOR BRINGING CABLES INTO THE MAIN CABINET

MAIN CABINET:
2-9"-23" ADJUSTABLE WIDTH RACKS, ADJUSTABLE FRONT TO REAR POSITION (43" TALL)
2-19"-23" ADJUSTABLE WIDTH RACKS, SWING OUT (40" TALL)
166" OF TOTAL INCHES OF RACK SPACE (95 RU)
4-15" WATT SHATTER-SHIELD LIGHT FIXTURES

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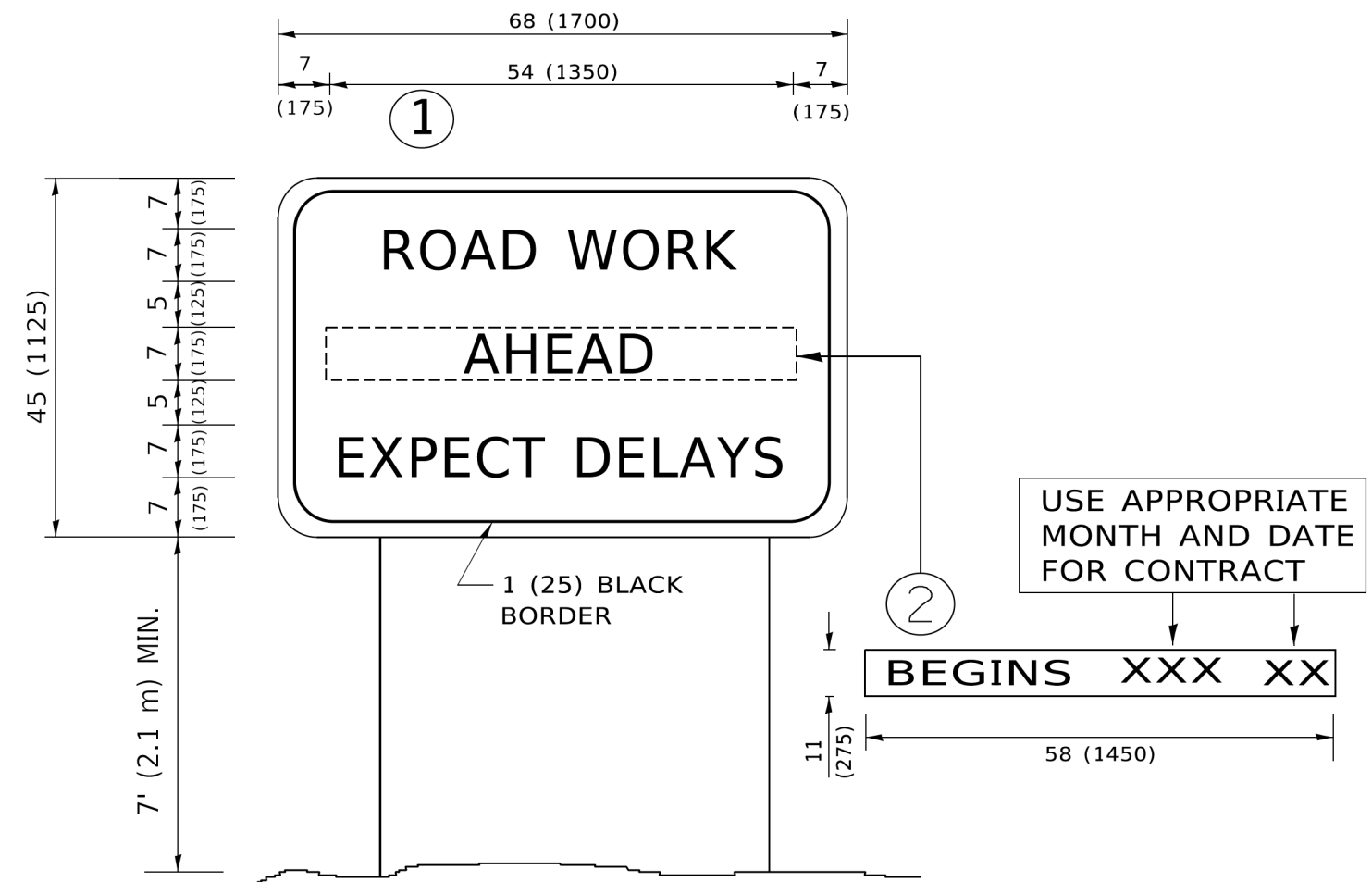
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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 05-02-16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER OPTIC INTERCONNECT CABINET
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19-00511-00-SP	McHENRY	45	43
BE-1050		CONTRACT NO. 61J51	

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	19-00511-00-SP	McHENRY	45	46
TC-22			CONTRACT NO. 61J51	
ILLINOIS FED. AID PROJECT				