FOR INDEX OF SHEETS
SEE SHEET 2

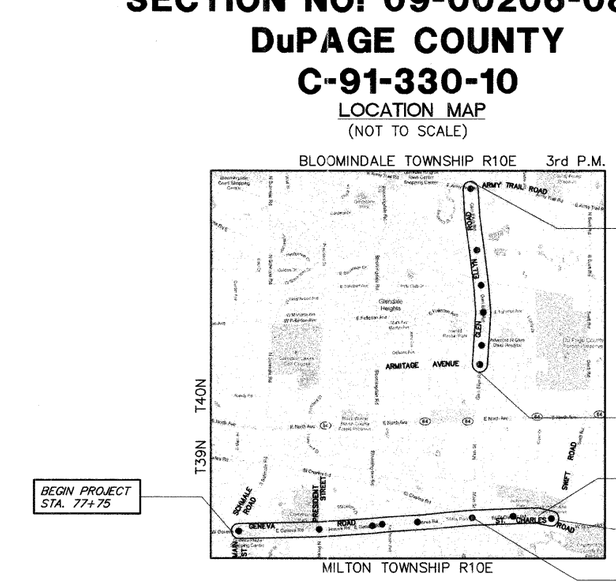
04-27-12 LETTING ITEM 157

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 &	09-00206-08-TL	DuPAGE	53	1
1397		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

DISTRICT 1
CONGESTION MITIGATION AIR QUALITY
SIGNAL INTERCONNECT
F.A.U. NO: 2581 (GLEN ELLYN ROAD)
ARMITAGE AVENUE TO ARMY TRAIL ROAD
AND
F.A.U. NO: 1397 (GENEVA ROAD/ST. CHARLES ROAD)
SCHMALE ROAD/MAIN STREET TO SWIFT ROAD
FEDERAL PROJECT NO: CMM-9003(563)
SECTION NO: 09-00206-08-TL
DuPAGE COUNTY
C-91-330-10

LOCATION MAP
(NOT TO SCALE)



NET & GROSS PROJECT LENGTHS:
GLEN ELLYN ROAD = 8,900 FEET (1.7 MILES)
GENEVA ROAD/ST. CHARLES ROAD = 16,200 FEET (3.1 MILES)

TRAFFIC DATA:	GLEN ELLYN ROAD	GENEVA ROAD/ST. CHARLES ROAD
POSTED SPEED:	40 MPH	35-40 MPH
DESIGN SPEED:	45 MPH	40-45 MPH
ADT:	15,100-17,300	15,200-18,300
FUNCTIONAL CLASSIFICATION:	MINOR ARTERIAL	MINOR ARTERIAL

LOCATION OF SECTION INDICATED THUS: ▬

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: December 15 20 11
Charles F. Johnson
DuPAGE COUNTY DIVISION OF TRANSPORTATION,
DIRECTOR OF TRANSPORTATION/COUNTY ENGINEER

PASSED: JANUARY 5 20 12
CHRISTOPHER HART
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW JANUARY 10 20 12
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

KEVIN L. BELGRAVE
062-051750
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

SIGNED: Kevin L. Belgrave
Kevin L. Belgrave
DATE: 12/15/11

EXPIRES: 11/30/2013

GEWALT HAMILTON ASSOCIATES, INC.
850 Forest Edge Drive ▪ Vernon Hills, IL 60061
Consulting Engineers & Surveyors
847-478-9700
FAX: 847-478-9701

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROGRAM & OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406 SCHAUMBURG, IL

100' 200' 300' — 1"= 100'
10' 20' 30' — 1"= 10'
50' 100' — 1"= 50'
50' 100' — 1"= 40'
50' 100' — 1"= 30'
50' 100' — 1"= 20'

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 BELOW SCALES MAY BE USED.

J.U.L.I.E
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
CALL 811
811
Know what's below.
Call before you dig.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

CONTRACT NO: 63625

INDEX OF SHEETS

GENERAL NOTES - MISCELLANEOUS

THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2012: MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION; PROJECT SPECIFICATIONS; ALL APPLICABLE REQUIREMENTS OF THE DUPAGE COUNTY DIVISION OF TRANSPORTATION; THE VILLAGE OF GLEN ELLYN; THE CITY OF WHEATON; THE VILLAGE OF CAROL STREAM; THE VILLAGE OF GLENDALE HEIGHTS; THE VILLAGE OF BLOOMINGDALE; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION; AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.

THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

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. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL SOLEY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT J.U.L.I.E. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES UNDERGROUND FACILITIES.

EXTRA CARE SHALL BE EXERCISED WHEN OPERATING EQUIPMENT AROUND TREES AND SHRUBS. INJURED BRANCHES OR ROOTS SHALL BE PRUNED IN A MANNER SATISFACTORY TO THE ENGINEER AND SHALL BE PAINTED WHERE THE CUT WAS MADE. ROOTS EXPOSED DURING EXCAVATING OPERATIONS SHALL BE NEATLY PRUNED AND COVERED WITH TOPSOIL. THIS WORK SHALL BE DONE AS SOON AS POSSIBLE AND SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM "UNDERGROUND CONDUIT" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY.

RESTORATION OF THE WORK AREA DUE TO CURB AND GUTTER AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE RELATED PAY ITEMS. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH SALT TOLERANT SOD IN ACCORDANCE WITH SECTION 252 OF THE STANDARD SPECIFICATION.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING TRAFFIC SIGNAL AND LIGHTING FACILITIES IN THE PROJECT LIMITS. IF THERE ARE ANY QUESTIONS CONCERNING EXISTING EQUIPMENT THE CONTRACTOR SHALL CONTACT THE DUPAGE COUNTY DIVISION OF TRANSPORTATION AT (630) 407-6900 FOR TRAFFIC SIGNAL CABLE LOCATIONS A MINIMUM OF 48 HOURS IN ADVANCE (SATURDAY, SUNDAYS AND HOLIDAYS EXCLUDED) AT ANY LOCATION WITHIN THE RIGHT-OF-WAY.

THE CONTRACTOR SHALL RETURN REMOVED EQUIPMENT UNLESS OTHERWISE MARKED ON THE PLANS, TO THE DUPAGE COUNTRY TRAFFIC SIGNAL MAINTENANCE CONTRACTOR FACILITY AT 20W 751 NORTH AURORA, NAPERVILLE, IL 60563, ALL OTHER EQUIPMENT REMOVED SHALL BE SALVAGED BY THE CONTRACTOR WITH COSTS REFLECTED IN THE UNIT BID PRICES FOR THE RELATED PAY ITEMS.

PLAN SETS IDENTIFY CONSTRUCTION IN BOLD PRINT; EXISTING ROADWAY ELEMENTS INCLUDED FOR REFERENCE ONLY ARE IDENTIFIED IN LIGHTER PRINT.

FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNTERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION. SEE SPECIAL PROVISIONS FOR DETAILS.

IDOT STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001006	DECIMAL OF AN INCH OF A FOOT
424001-06	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016	MIDBLOCK CURB RAMPS FOR SIDEWALKS
424021	DEPRESSED CORNER FOR SIDEWALKS
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606306-03	CORRUGATED PC CONCRETE MEDIANS
701001-02	OFF-ROAD OPERATIONS 2L, 2W, >15' AWAY
701006-03	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE 2L, 2W UNDIVIDED
701606-08	URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-05	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
814001-02	HANDHOLE
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-09	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 & 1397	09-00206-08-TL	DuPAGE	53	2
		CONTRACT #: 63625		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL	GENEVA ROAD AT SCHMALE ROAD/ MAIN STREET	GENEVA ROAD AT PRESIDENT STREET	GENEVA ROAD AT BLOOMINGDALE ROAD	GENEVA ROAD AT KENILWORTH AVENUE/ CHURCHILL SCHOOL	GENEVA ROAD AT WESTERN AVENUE	GENEVA RD / ST. CHARLES RD AT MAIN STREET/ GLEN ELLYN ROAD	ST. CHARLES ROAD AT RIFORD ROAD/ ACKERMAN PARK	ST. CHARLES ROAD AT SWIFT ROAD	GLEN ELLYN ROAD AT ARMITAGE AVENUE	GLEN ELLYN ROAD AT MID-BLOCK CROSSING	GLEN ELLYN ROAD AT FULLERTON AVENUE	GLEN ELLYN ROAD AT WINDY POINT DRIVE	GLEN ELLYN ROAD AT GREGORY AVENUE	GLEN ELLYN ROAD AT ARMY TRAIL ROAD	GENEVA RD & ST. CHARLES RD INTERCONNECT - FROM SCHMALE RD/MAIN ST TO SWIFT RD	GLEN ELLYN RD INTERCONNECT - FROM ARMITAGE AVE TO ARMY TRAIL RD
		LOCATION OF WORK			CONSTRUCTION CODES															
✳	20200100	EARTH EXCAVATION	CU YD	39		3	2	4	12			12				2	4			
✳	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3,475		895	195	745	960			305					375			
✳	42400800	DETECTABLE WARNINGS	SQ FT	468		96	36	104	112			24				44	52			
✳	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	265		135						50				15	65			
✳	44000600	SIDEWALK REMOVAL	SQ FT	2,835		840	150	640	645							275	285			
✳	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	245		115						50				15	65			
✳	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	20		20														
✳	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	6																
✳	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1.00																
✳	66900530	SOIL DISPOSAL ANALYSIS	EACH	1																
	67100100	MOBILIZATION	L SUM	1.00																
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1.00																
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1.00																
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.00																
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1.00																
✳	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	305		150						155								
✳	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	240													240			
	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	9		1	1	1	1			1	1	1		1	1			
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	20,158									150						12,569	7,439
	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	25					5				5				15			
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	85									85							
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	181									181							
	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	105															105	
	81400100	HANDHOLE	EACH	27															18	9
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	85700050	FULL-ACTUATED CONTROLLER AND TYPE II CABINET	EACH	1										1						
	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	3					1			1					1			
	85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1									1							
	86000100	MASTER CONTROLLER	EACH	1									1							
	86400100	TRANSCEIVER - FIBER OPTIC	EACH	10		1			1	1	1	1	1	1	1	1	1			
	87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	24,068															15,873	8,195
	87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4									4							
	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	24,068															15,873	8,195
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,448					109			411	567				361			
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,962					236			429	900				397			
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	811									811							
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	651								266	385							
	87301295	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C	FOOT	297									297							

✳ SPECIALTY ITEM
✳✳ CONSTRUCTION CODE OF 0042

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - ZCW	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -	
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -	

SUMMARY OF QUANTITIES
SHEET 1 OF 2

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 & 1397	09-00206-08-TL	DuPAGE	53	3
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

		LOCATION OF WORK		GENEVA ROAD AT SCHMALE ROAD/ MAIN STREET	GENEVA ROAD AT PRESIDENT STREET	GENEVA ROAD AT BLOOMINGDALE ROAD	GENEVA ROAD AT KENILWORTH AVENUE/ CHURCHILL SCHOOL	GENEVA ROAD AT WESTERN AVENUE	GENEVA RD / ST. CHARLES RD AT MAIN STREET/ GLEN ELLYN ROAD	ST. CHARLES ROAD AT RIFORD ROAD/ ACKERMAN PARK	ST. CHARLES ROAD AT SWIFT ROAD	GLEN ELLYN ROAD AT ARMITAGE AVENUE	GLEN ELLYN ROAD AT MID-BLOCK CROSSING	GLEN ELLYN ROAD AT FULLERTON AVENUE	GLEN ELLYN ROAD AT WINDY POINT DRIVE	GLEN ELLYN ROAD AT GREGORY AVENUE	GLEN ELLYN ROAD AT ARMY TRAIL ROAD	GENEVA RD & ST. CHARLES RD INTERCONNECT - FROM SCHMALE RD/MAIN ST TO SWIFT RD	GLEN ELLYN RD INTERCONNECT - FROM ARMITAGE AVE TO ARMY TRAIL RD
				CONSTRUCTION CODES															
CODE NO.	ITEM	UNIT	TOTAL	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	322									322							
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	912		18			19			47	686	41			101			
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4					1				1				2			
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	9			1						3	2			3			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5		2	2										1			
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1									1							
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	2									2							
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16					4				4				8			
87800205	MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1									1							
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30									30							
87900200	DRILL EXISTING HANDHOLE	EACH	41					1				17				2		10	11
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	18		2			4			3	4	2			3			
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	10		1			2			1	2				4			
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1								1								
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	8		4						1	2				1			
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8					4				2	2						
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	8		4						2	1				1			
88030330	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	1									1							
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14					2			2		2		4	4			
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	11		4			3				4							
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	26		6			4			4	6	2			4			
88500100	INDUCTIVE LOOP DETECTOR	EACH	21					4			5	7				5			
88600100	DETECTOR LOOP, TYPE I	FOOT	340									340							
88700200	LIGHT DETECTOR	EACH	2									2							
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1									1							
88800100	PEDESTRIAN PUSH-BUTTON	EACH	28		4			4			2	8	2		4	4			
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	4			4													
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	9		1	1	1	1			1	1	1		1	1			
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	4					1			1		1			1			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,434					393			238	803							
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	10		1	1	1	1		1	1	1	1		1	1			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4									4							
X8570015	CONTROLLER (SPECIAL)	EACH	1							1									
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	3	1					1								1		
XX003665	REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE	EACH	1									1							
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	13															8	5
** Z0076600	TRAINEES	HOUR	500																

* SPECIALTY ITEM
** CONSTRUCTION CODE OF 0042

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SUMMARY OF QUANTITIES SHEET 2 OF 2**
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 & 1397	09-00206-08-TL	DuPAGE	53	4
		CONTRACT #: 63625		
		ILLINOIS FED. AID PROJECT		

LOOP DETECTOR NOTES

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

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

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

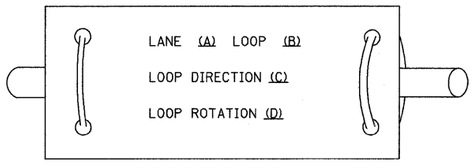
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

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

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

LOOP LEAD-IN CABLE TAG

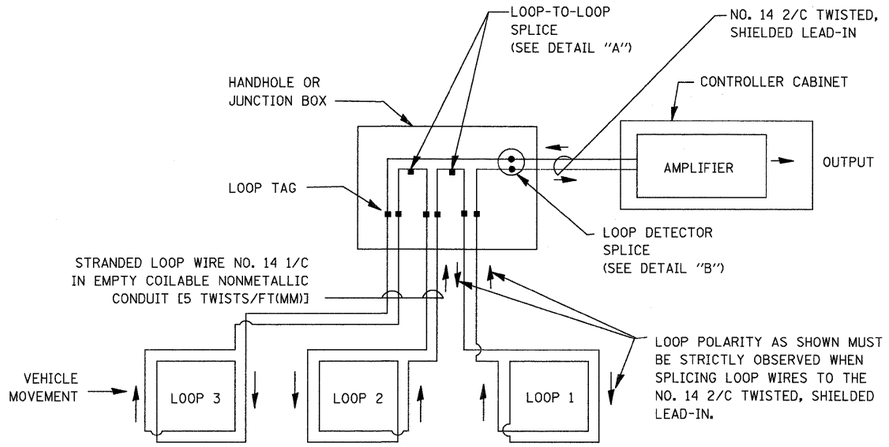


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

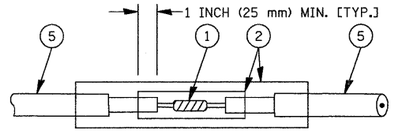
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

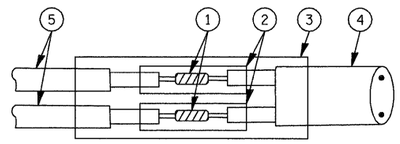


DETECTOR LOOP WIRING SCHEMATIC

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

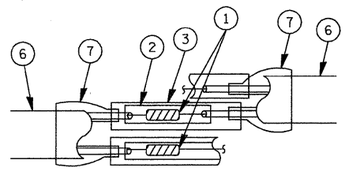


DETAIL "A"
LOOP-TO-LOOP SPLICE



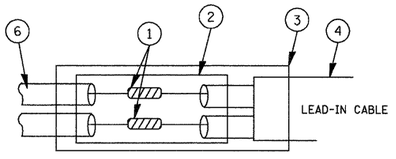
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

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

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

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

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

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

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -
	PLOT DATE = 12/16/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

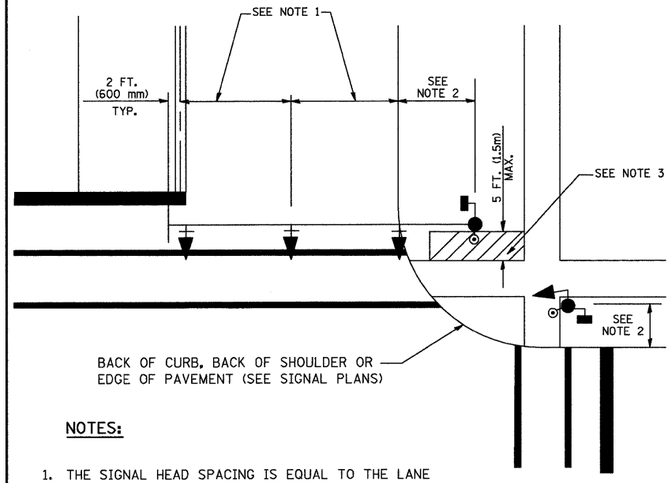
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 &	09-00206-08-TL	DuPAGE	53	5
1397	**TS-05**	CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

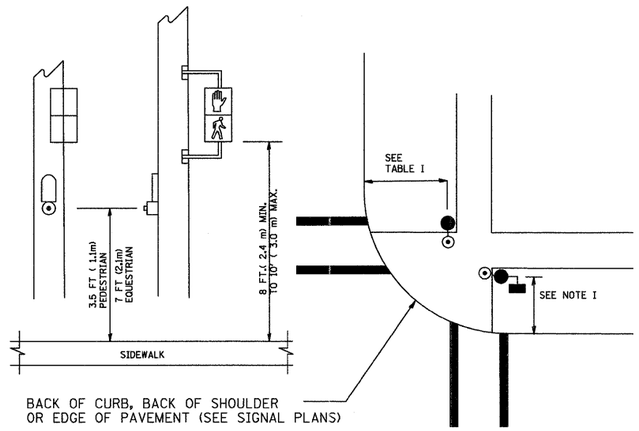
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

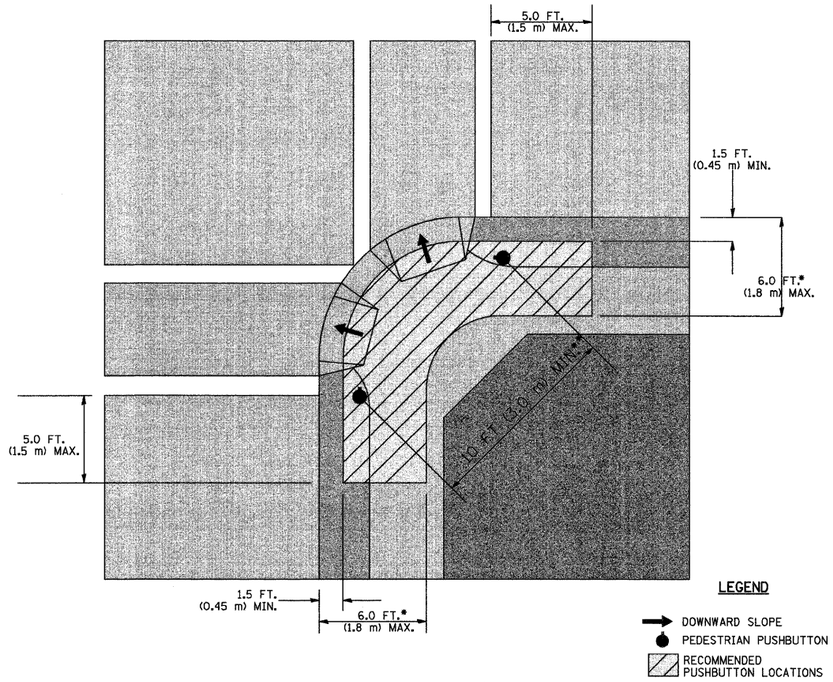
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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:

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.

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.

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.

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.

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.

GHA #4281.800

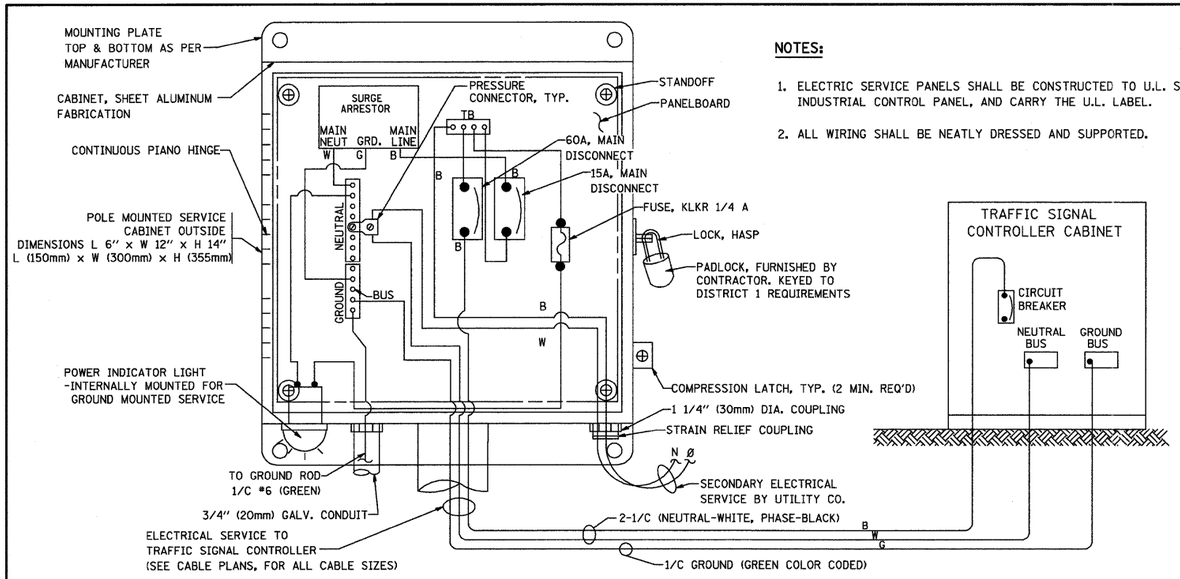
FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -
	PLOT DATE = 12/16/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 &	09-00206-08-TL	DuPAGE	53	6
1397	**TS-05**	CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			



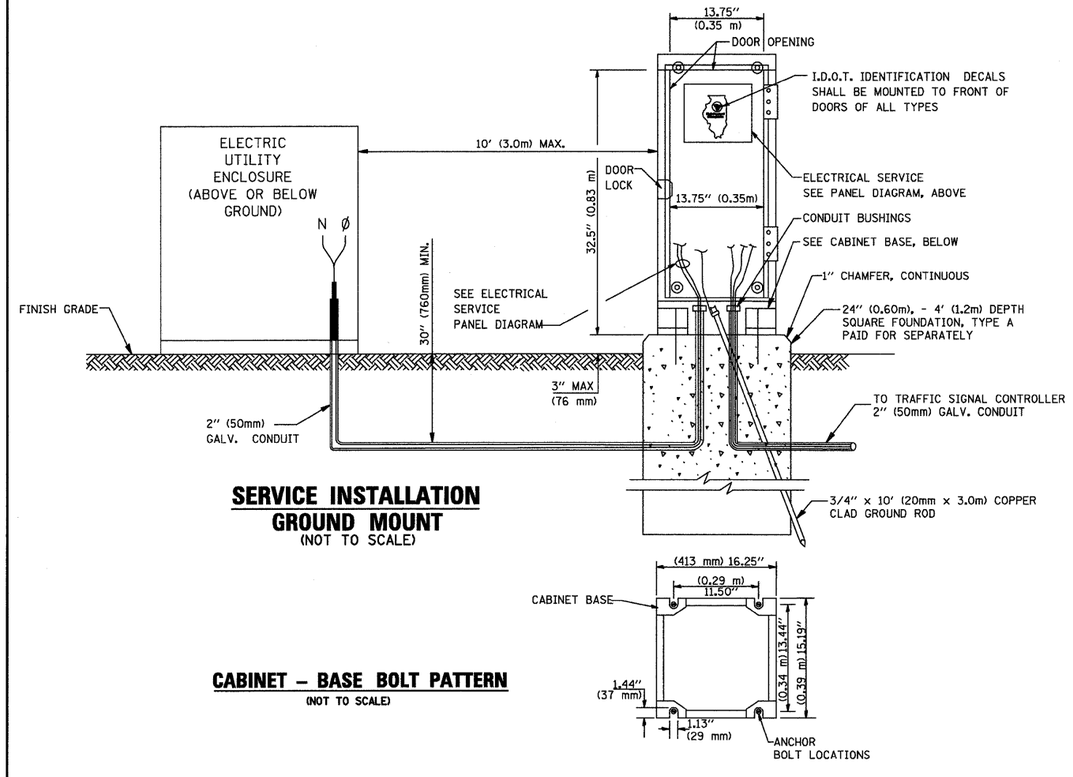
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

NOTES:

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

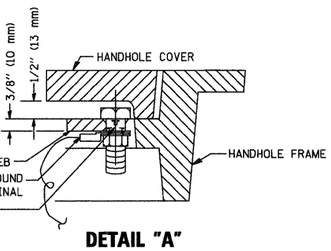


SERVICE INSTALLATION GROUND MOUNT

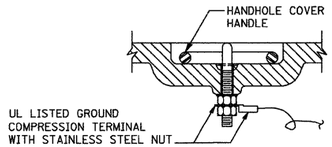
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



DETAIL "A"



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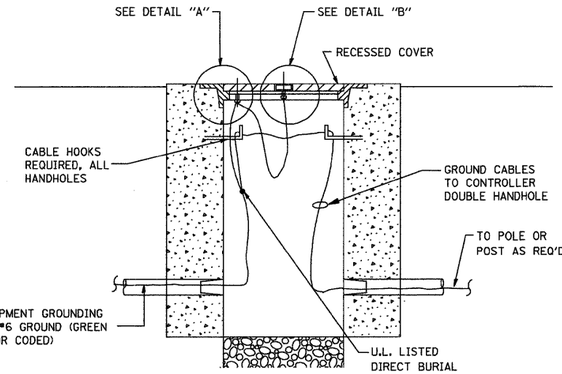
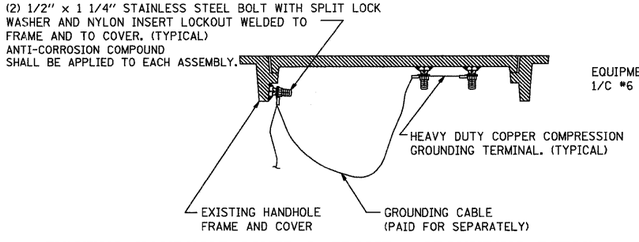


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



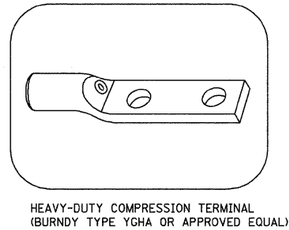
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

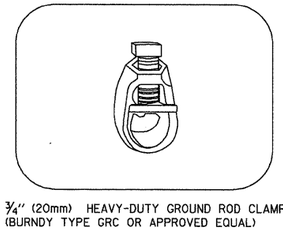
NOTES:

GROUNDING SYSTEM

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



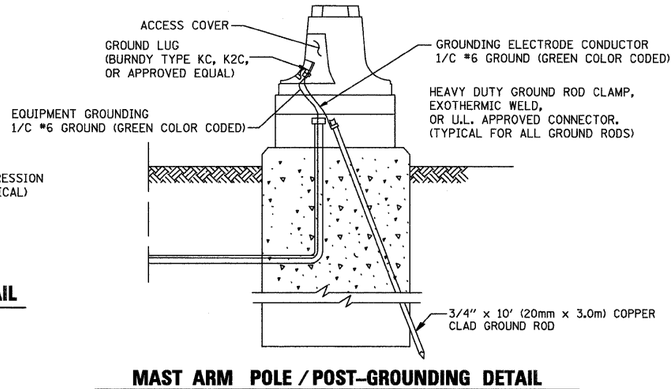
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

NOTES:

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

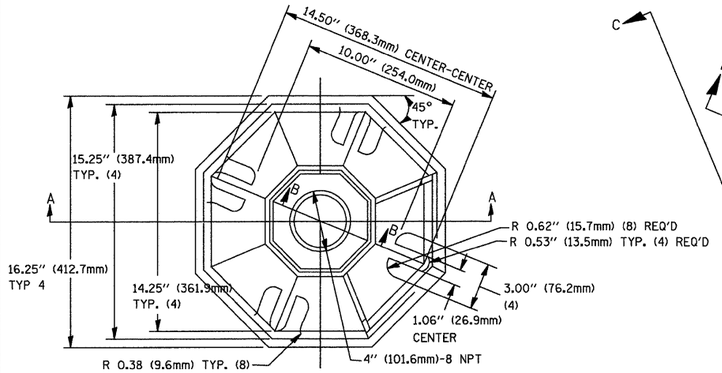


MAST ARM POLE / POST–GROUNDING DETAIL

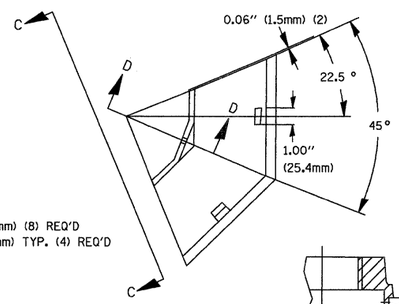
(NOT TO SCALE)

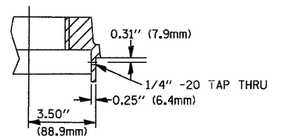
GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - BCK	REVISED -					2581 &	09-00206-08-TL	DuPAGE	53 / 7
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -					1397	TS-05	CONTRACT #: 63625	
	PLOT DATE = 12/16/2011	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 3 OF 6 SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

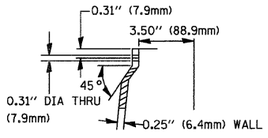


TOP VIEW





SECTION B-B



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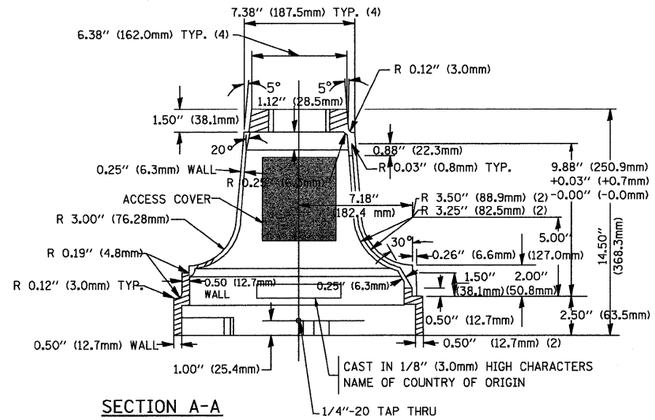
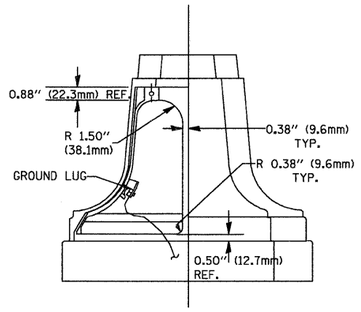
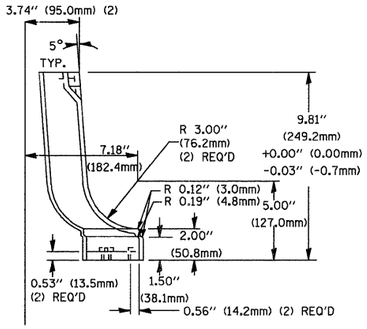


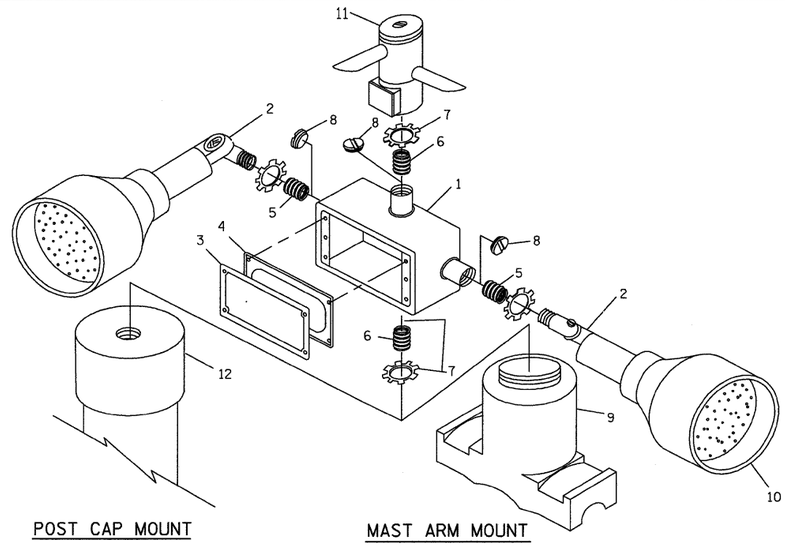
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



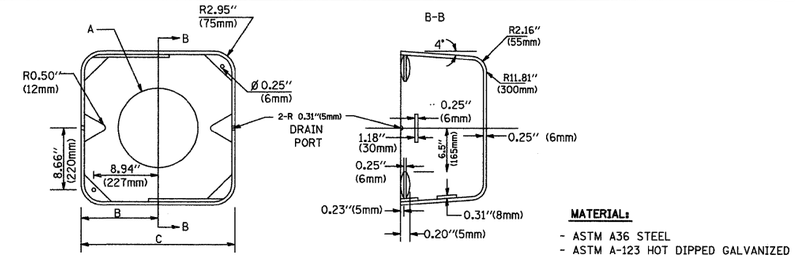
POST CAP MOUNT MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(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

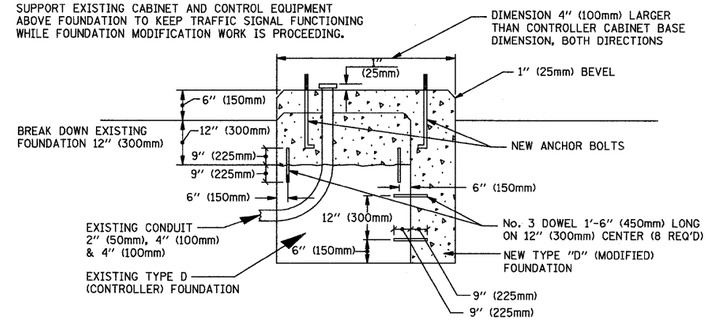
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

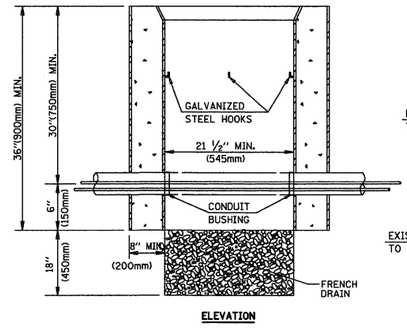
NOTES:

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 VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

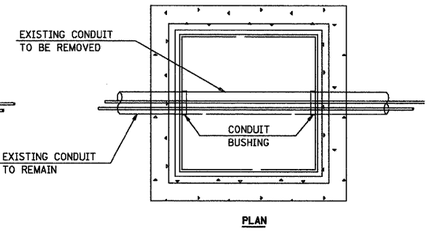
NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



ELEVATION



PLAN

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 INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

GHA #4281.800

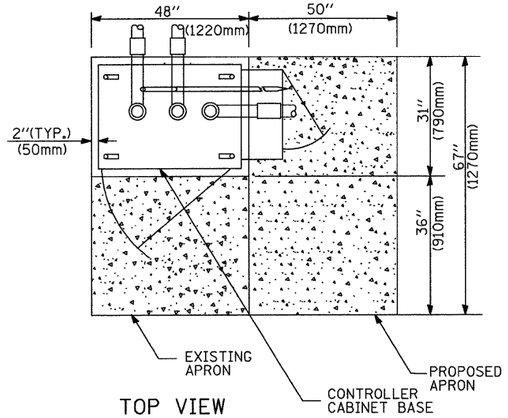
FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -
	PLOT DATE = 12/16/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

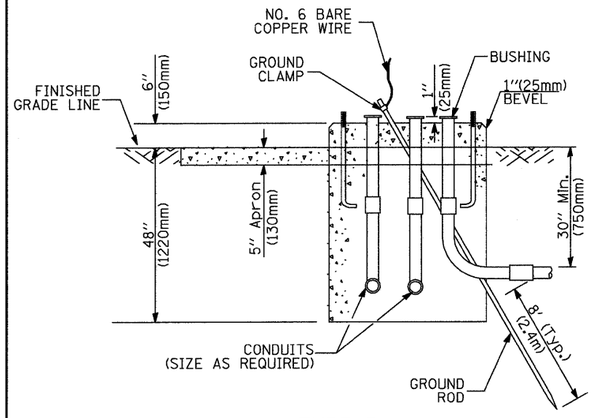
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

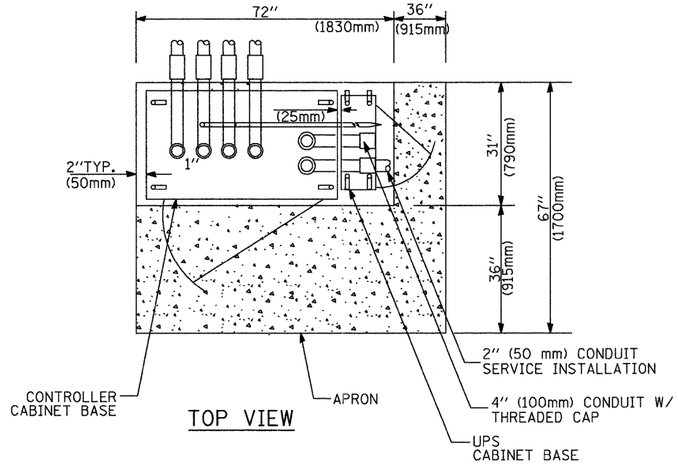
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 & 1397	09-00206-08-TL	DuPAGE	53	8
	TS-05	CONTRACT #: 63625		
		ILLINOIS FED. AID PROJECT		



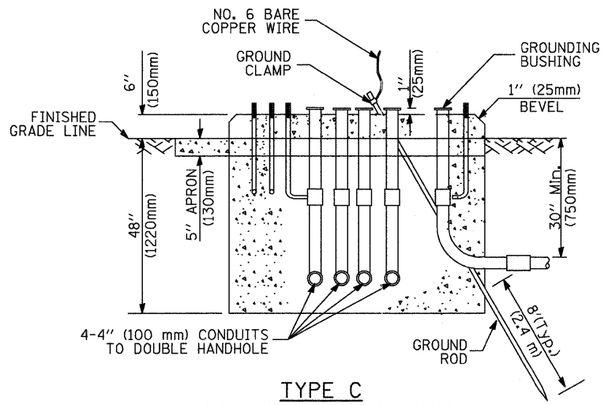
TOP VIEW



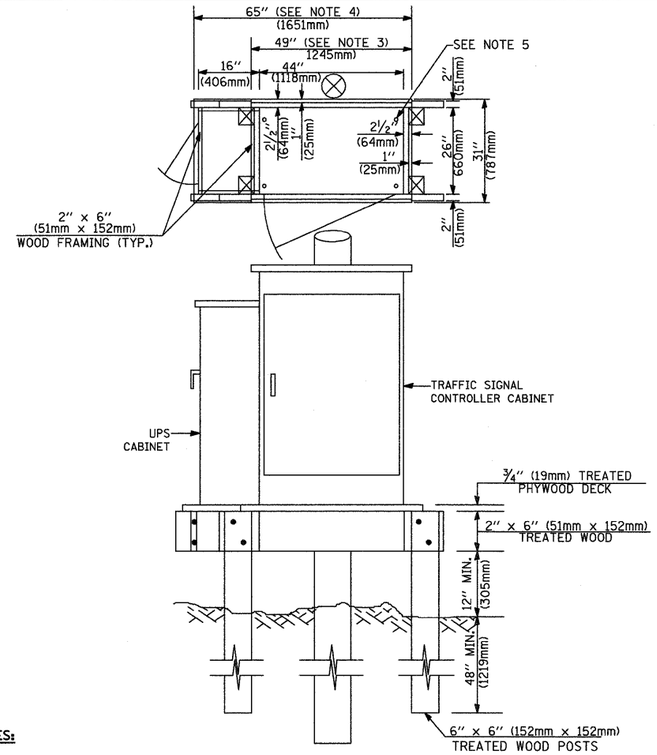
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -
	PLOT DATE = 12/16/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 &	09-00206-08-TL	DuPAGE	53	9
1397	**TS-05**	CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		BCK	BCK
COMMUNICATIONS CABINET	R	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	HH
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◄Y ◄G	R Y G ◄Y ◄G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G ◄Y ◄G "P"	R Y G ◄Y ◄G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET	BCK	BCK
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

GHA #4281.800

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		DRAWN - BCK	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -	
	PLOT DATE = 12/16/2011	DATE - 10-28-09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

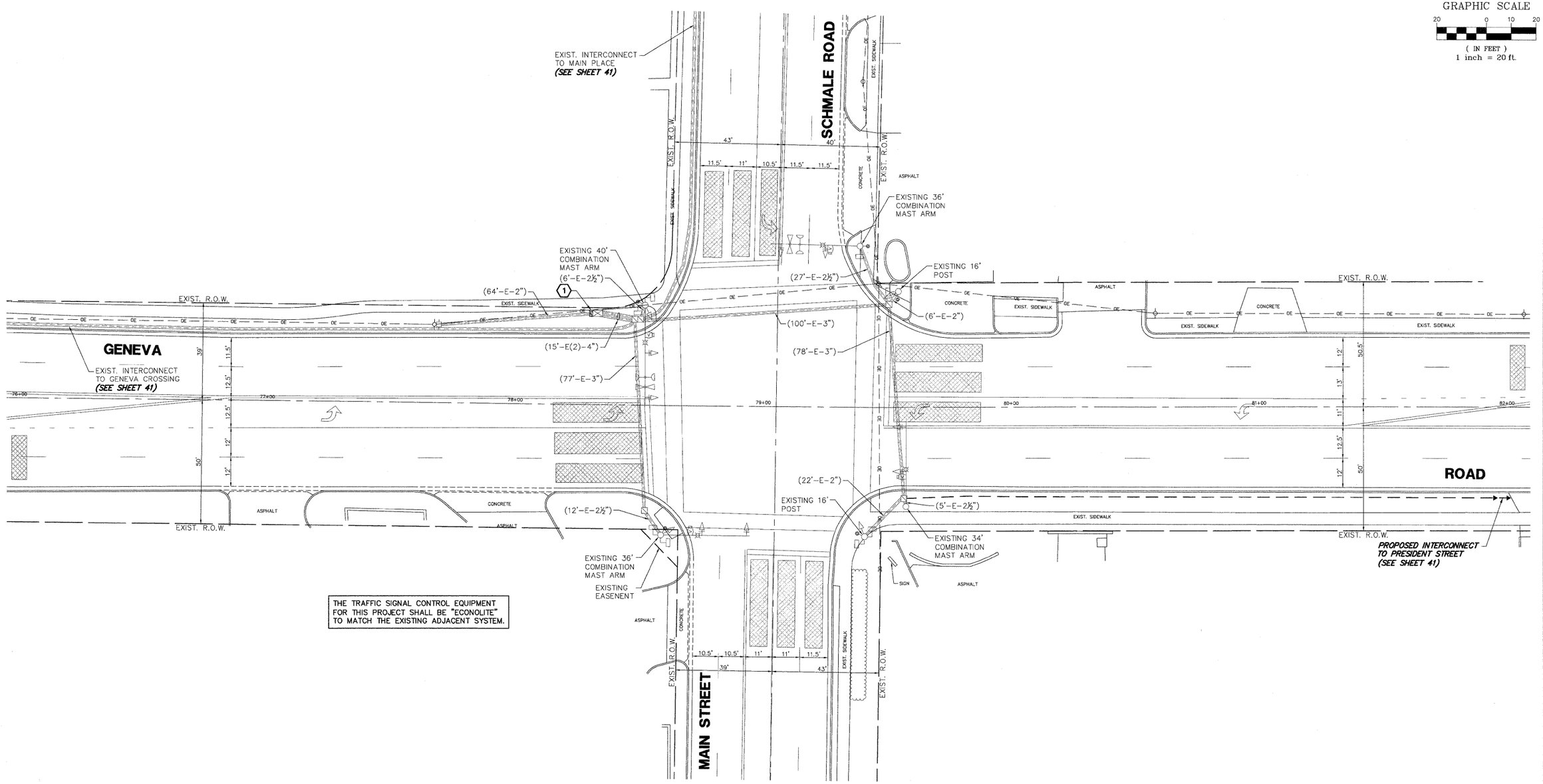
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 &	09-00206-08-TL	DuPAGE	53	10
1397	TS-05	CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

(1) INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT.



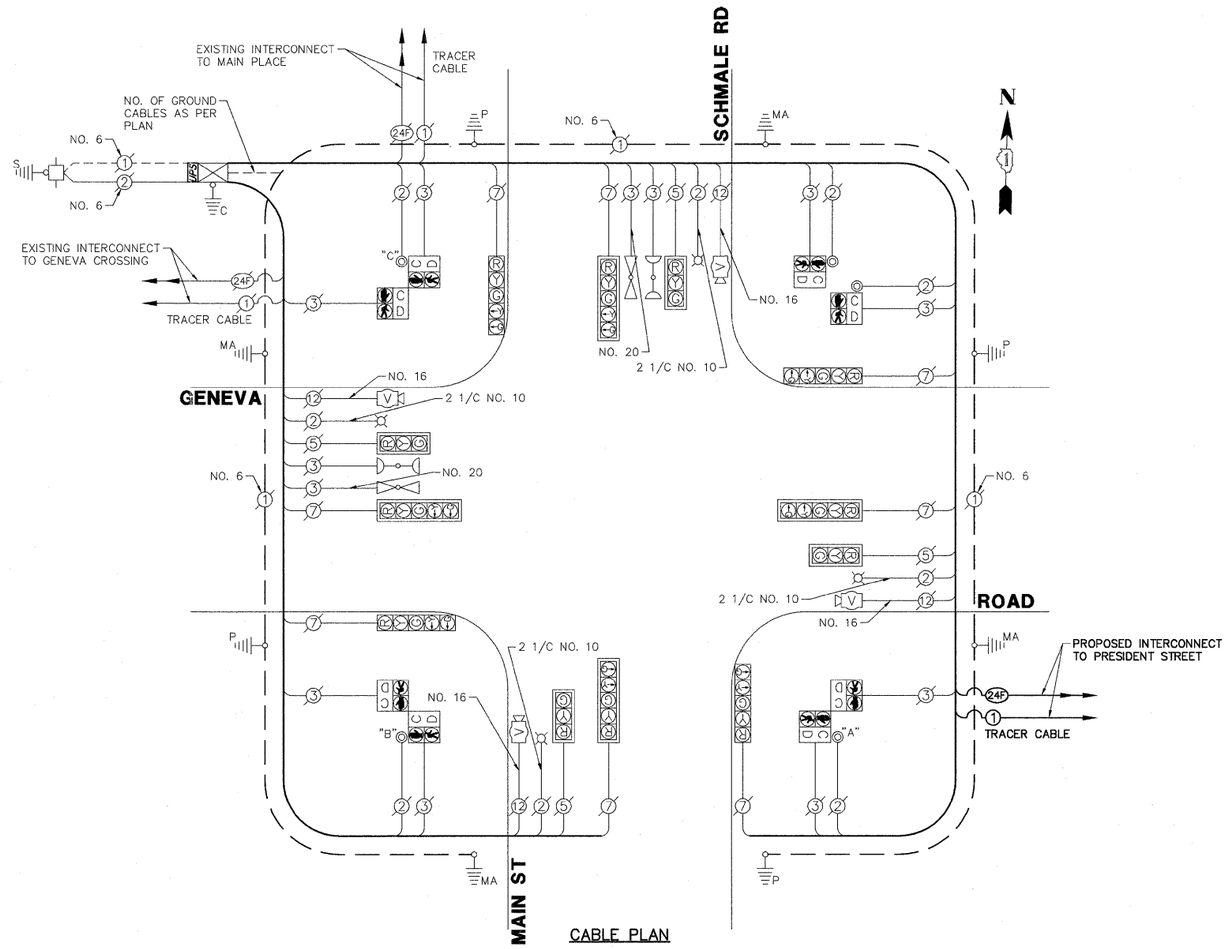
CHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN GENEVA ROAD AT SCHMALE ROAD/MAIN STREET				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -						1397	09-00206-08-TL	DuPAGE	53	11
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -								CONTRACT #:	63625	
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: 1"=20'	SHEET NO. OF SHEETS	STA.	TO STA.			ILLINOIS	FED. AID PROJECT	

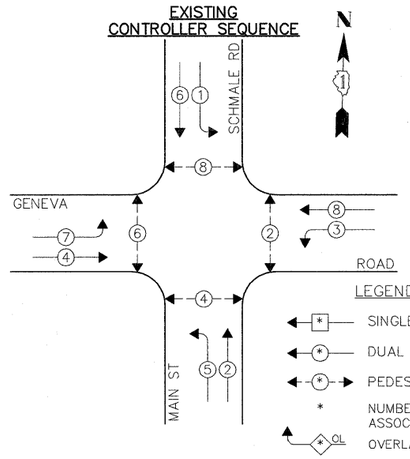
SCHEDULE OF QUANTITIES

GENEVA ROAD AT SCHMALE ROAD/MAIN STREET

NO.	QUANT.	UNIT	
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



CABLE PLAN



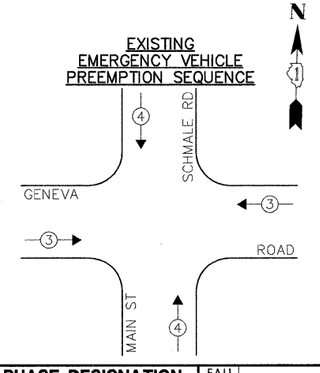
EXISTING PHASE DESIGNATION DIAGRAM

NOTE:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.

PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	4	250	–	0.50	500.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	1	–	150	1.00	150.0
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	1,191.2

ENERGY COSTS – BILLED TO: CITY OF WHEATON
(ADDRESS) 303 WEST WESLEY STREET
(ADDRESS) WHEATON, IL 60187
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COM-ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

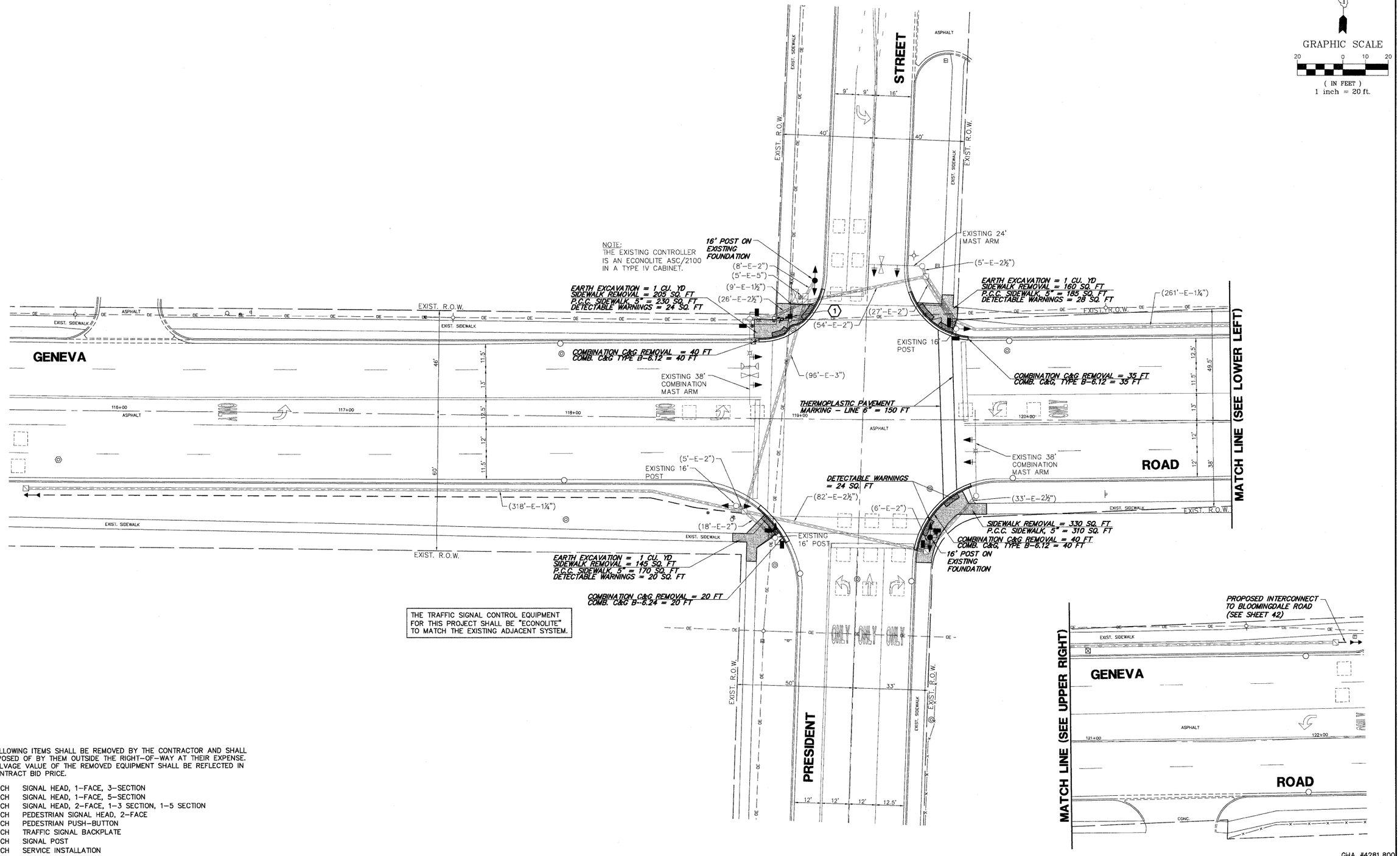
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GENEVA ROAD AT SCHMALE ROAD/MAIN STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	12
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

(1) REMOVE EXISTING SERVICE INSTALLATION AND INSTALL NEW SERVICE INSTALLATION AND GROUND CABLE.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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.

3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
6	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	SIGNAL POST
1	EACH	SERVICE INSTALLATION

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GENEVA ROAD AT PRESIDENT STREET

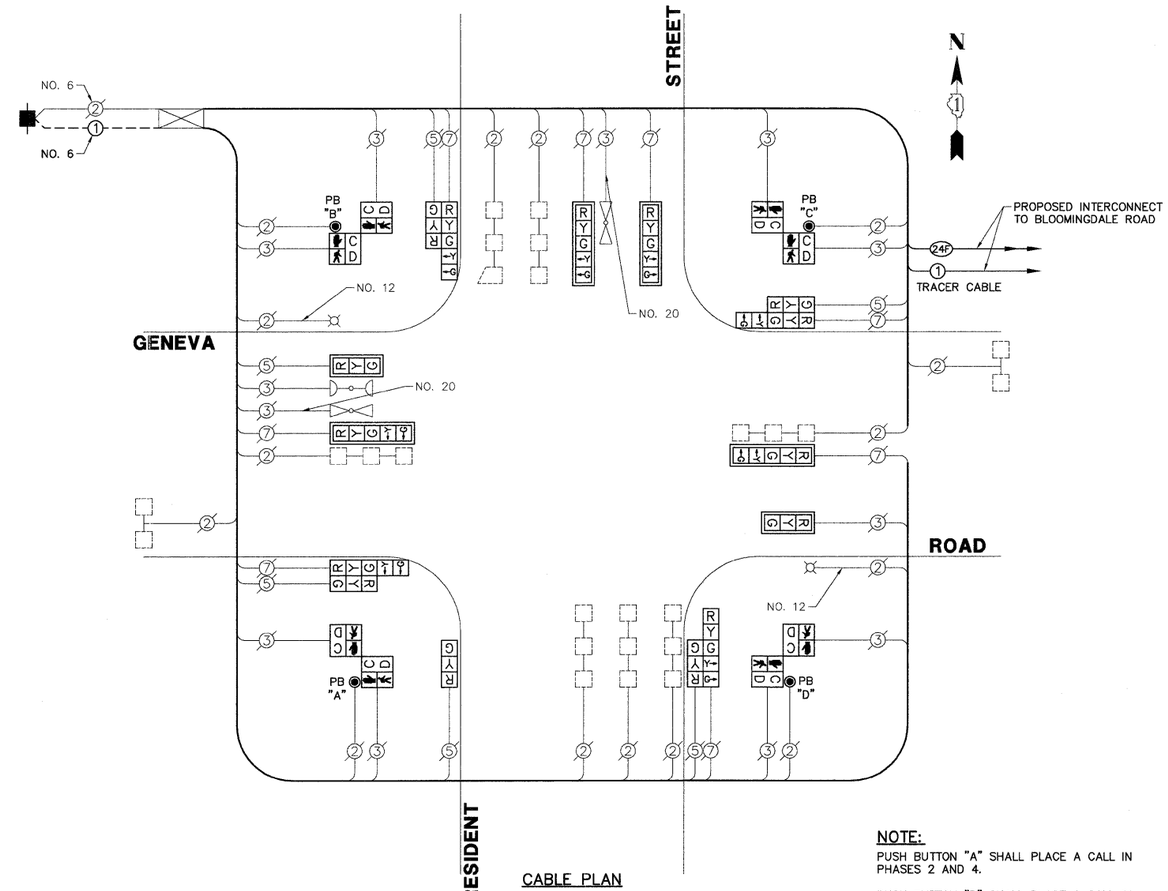
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	13
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

GENEVA ROAD AT PRESIDENT STREET

NO.	QUANT.	UNIT	
1.	3	CU YD	EARTH EXCAVATION
2.	895	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
3.	96	SQ FT	DETECTABLE WARNINGS
4.	135	FOOT	COMBINATION CURB AND GUTTER REMOVAL
5.	840	SQ FT	SIDEWALK REMOVAL
6.	115	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
7.	20	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
8.	150	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
9.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
10.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
11.	1	EACH	TRANSCEIVER - FIBER OPTIC
12.	18	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
13.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
14.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
15.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
16.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
17.	4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
18.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
19.	6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
20.	4	EACH	PEDESTRIAN PUSH-BUTTON
21.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
22.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION



CABLE PLAN

NOTE:

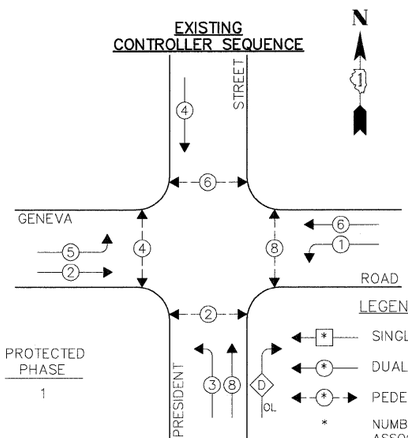
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.

PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.

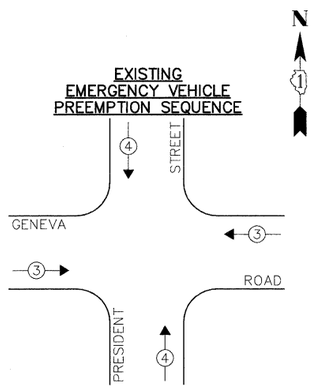
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	15	135	17	0.50	127.5
SIGNAL (YELLOW)	15	135	25	0.25	93.75
SIGNAL (GREEN)	15	135	15	0.25	56.25
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	2	250	–	0.50	250.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	846.7

ENERGY COSTS – BILLED TO: CITY OF WHEATON
(ADDRESS) 303 WEST WESLEY ST.
(ADDRESS) WHEATON, IL 60187
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COM-ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

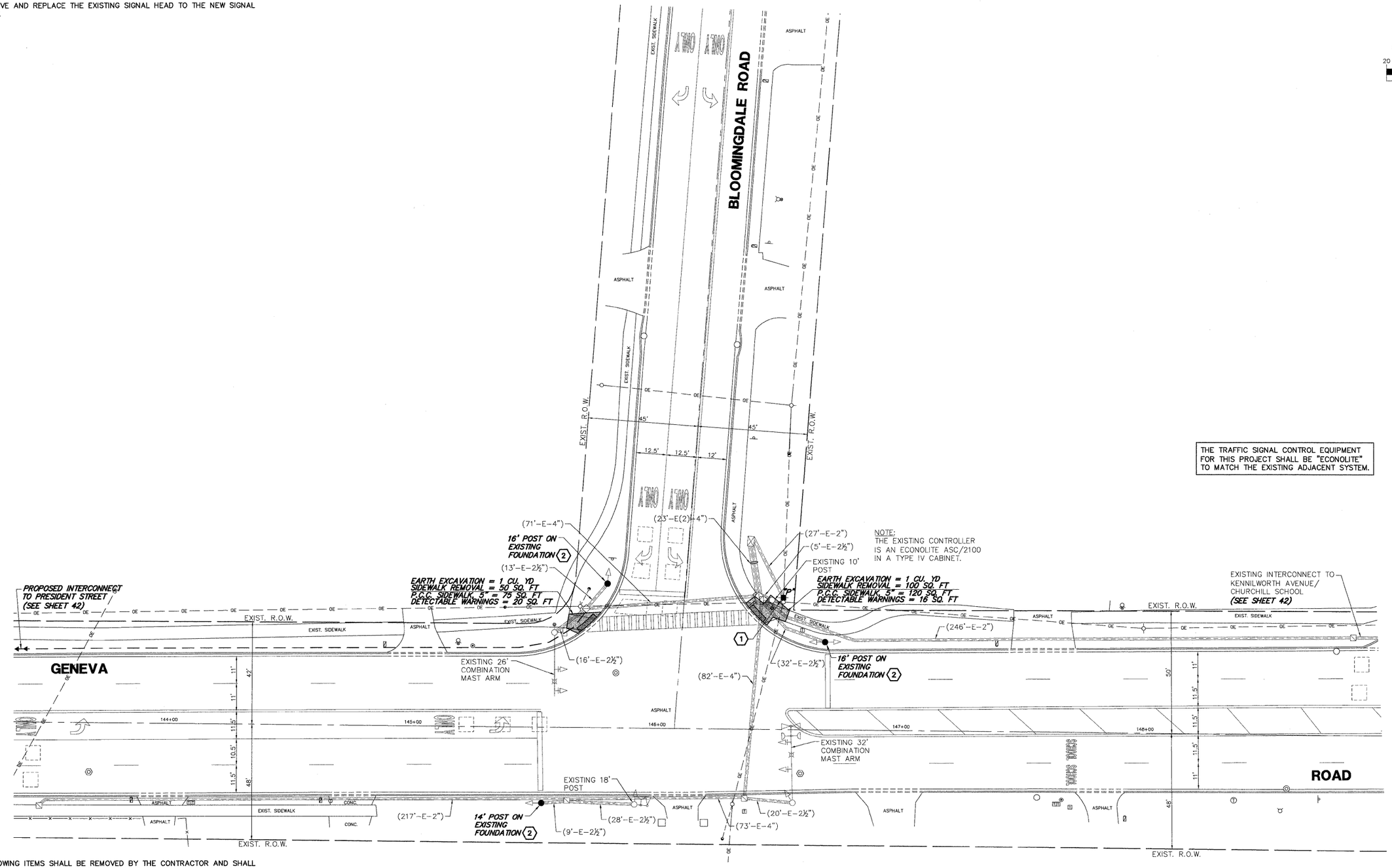
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE GENEVA ROAD AT PRESIDENT STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	14
		CONTRACT #:	63625	
		ILLINOIS	FED. AID PROJECT	

CONSTRUCTION NOTES:

1. REMOVE EXISTING SERVICE INSTALLATION AND INSTALL NEW SERVICE INSTALLATION, POLE MOUNTED.
2. REMOVE AND REPLACE THE EXISTING SIGNAL HEAD TO THE NEW SIGNAL POST.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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.

3 EACH SIGNAL POST
1 EACH SERVICE INSTALLATION

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GENEVA ROAD AT BLOOMINGDALE ROAD

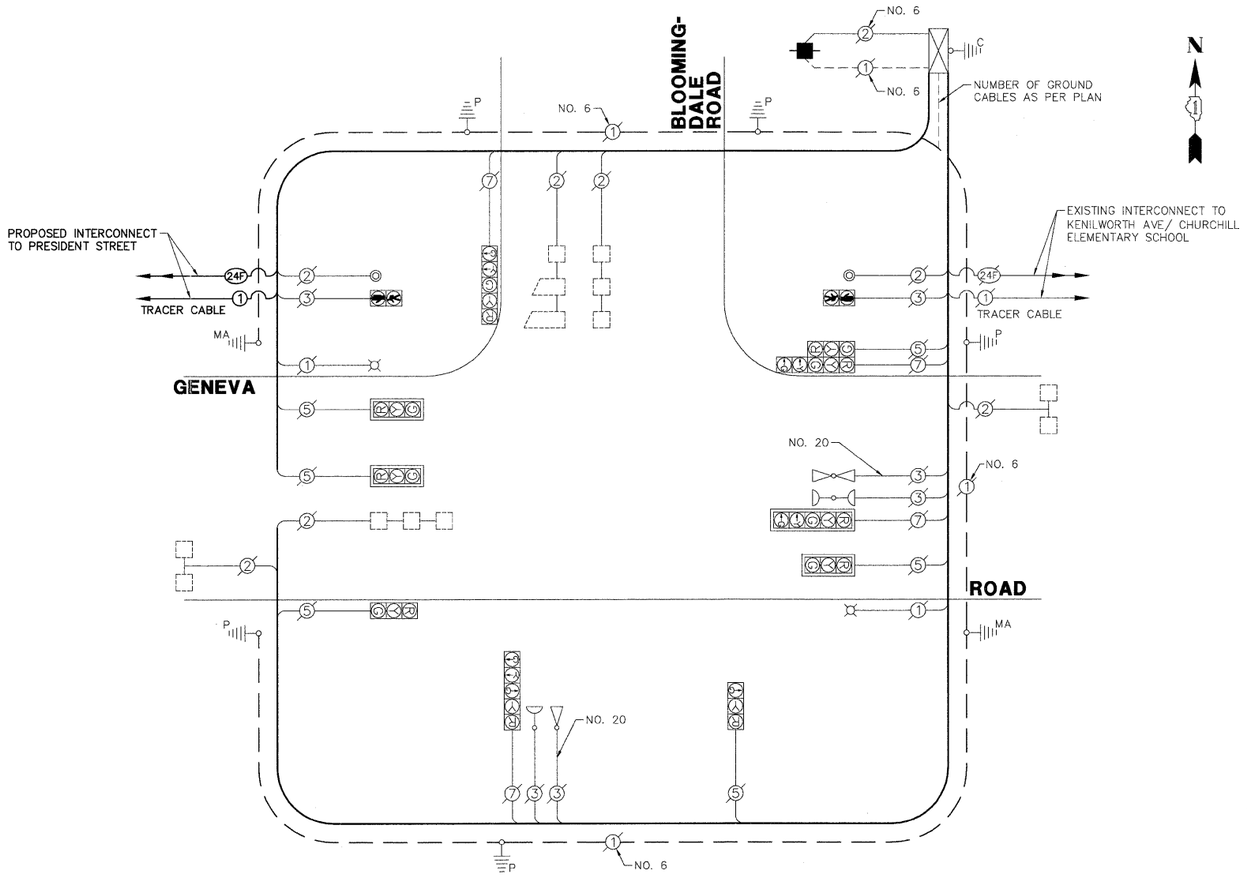
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	15
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		

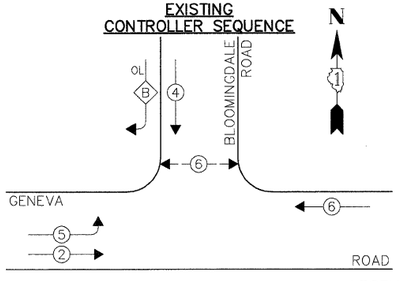
SCHEDULE OF QUANTITIES

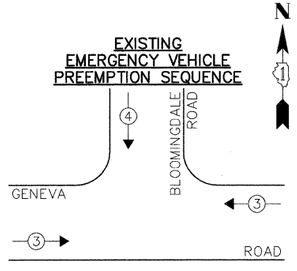
GENEVA ROAD AT BLOOMINGDALE ROAD

NO.	QUANT.	UNIT	
1.	2	CU YD	EARTH EXCAVATION
2.	195	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
3.	36	SQ FT	DETECTABLE WARNINGS
4.	150	SQ FT	SIDEWALK REMOVAL
5.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
6.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
8.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
9.	4	EACH	RELOCATE EXISTING SIGNAL HEAD
10.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION



CABLE PLAN





I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	10	135	17	0.50	85.0
SIGNAL (YELLOW)	10	135	25	0.25	62.5
SIGNAL (GREEN)	10	135	15	0.25	37.5
ARROW	9	135	12	0.10	10.8
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	2	250	–	0.50	250.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	595.8

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691–4379
COMPANY: COM–ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

GHA #4281.800

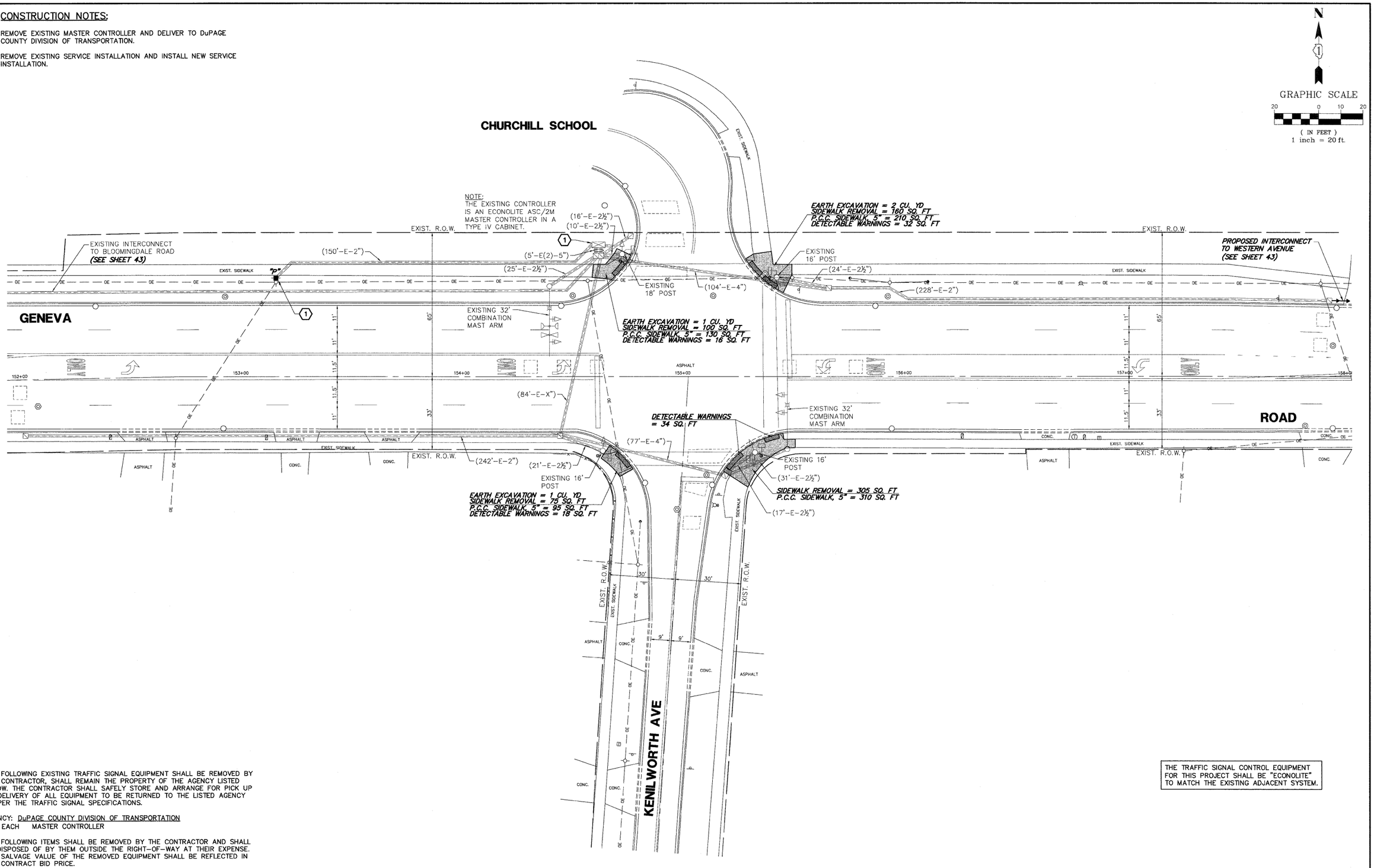
FILE NAME = 4281.800–TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE GENEVA ROAD AT BLOOMINGDALE ROAD**
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09–00206–08–TL	DuPAGE	53	16
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

(1) REMOVE EXISTING MASTER CONTROLLER AND DELIVER TO DuPAGE COUNTY DIVISION OF TRANSPORTATION.

(2) REMOVE EXISTING SERVICE INSTALLATION AND INSTALL NEW SERVICE INSTALLATION.



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DuPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH MASTER CONTROLLER

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 SERVICE INSTALLATION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GENEVA RD AT KENILWORTH AVE/CHURCHILL SCHOOL

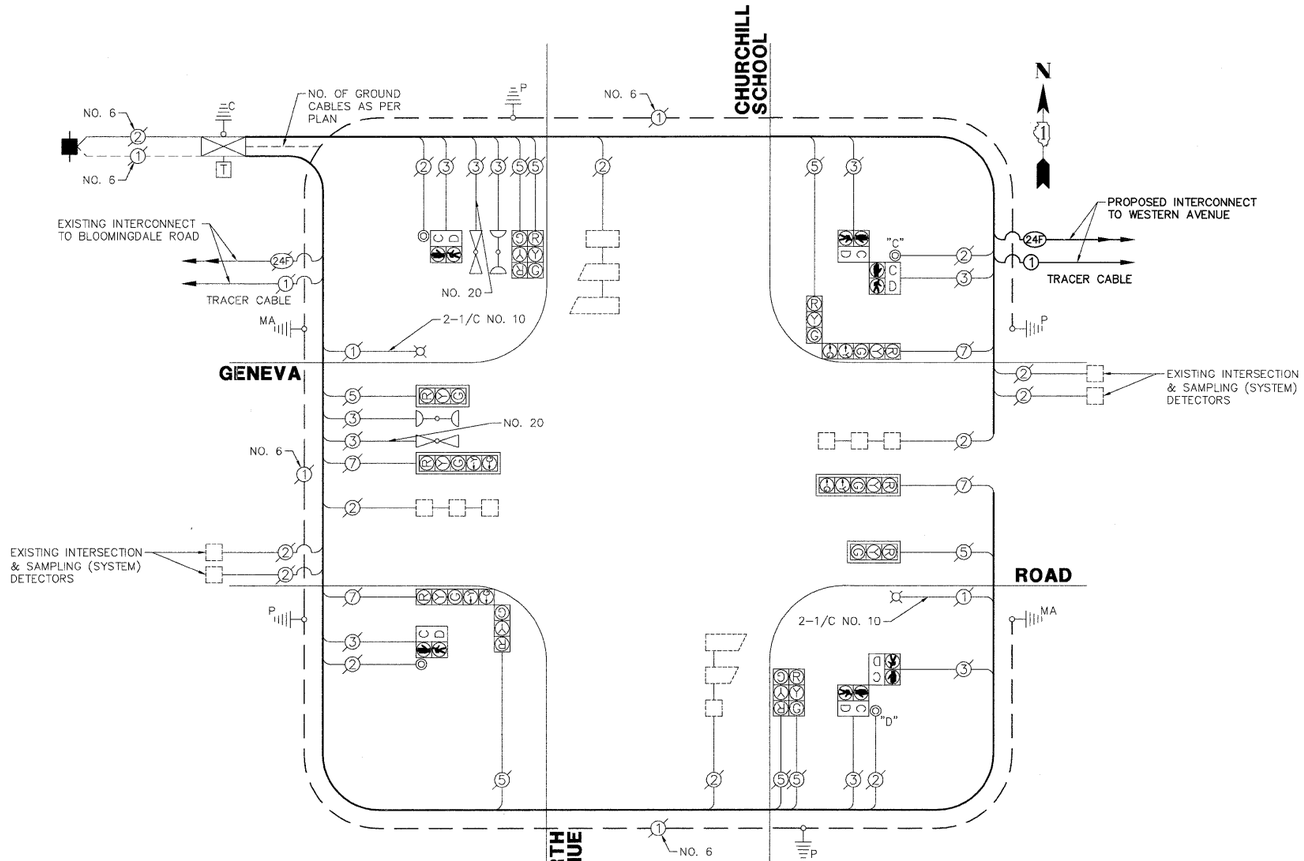
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	17
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

GENEVA ROAD AT KENILWORTH AVENUE / CHURCHILL SCHOOL

NO.	QUANT.	UNIT	
1.	4	CU YD	EARTH EXCAVATION
2.	745	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
3.	104	SQ FT	DETECTABLE WARNINGS
4.	640	SQ FT	SIDEWALK REMOVAL
5.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
6.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION



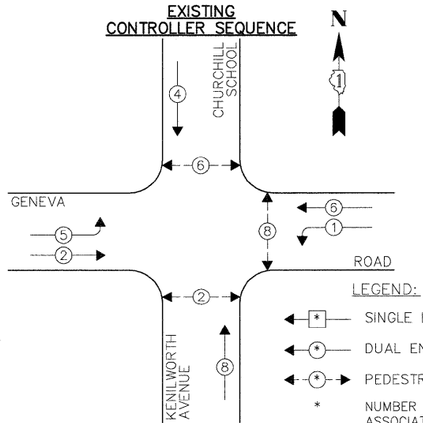
CABLE PLAN

NOTE:

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

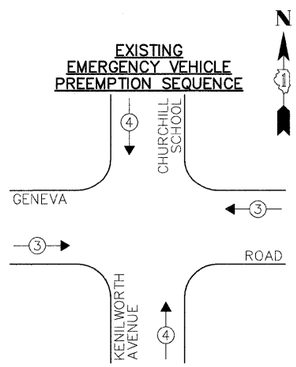
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 8 AND 2.

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	2	250	–	0.50	250.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	731.6

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COM-ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GENEVA RD AT KENILWORTH AVE/CHURCHILL SCHOOL

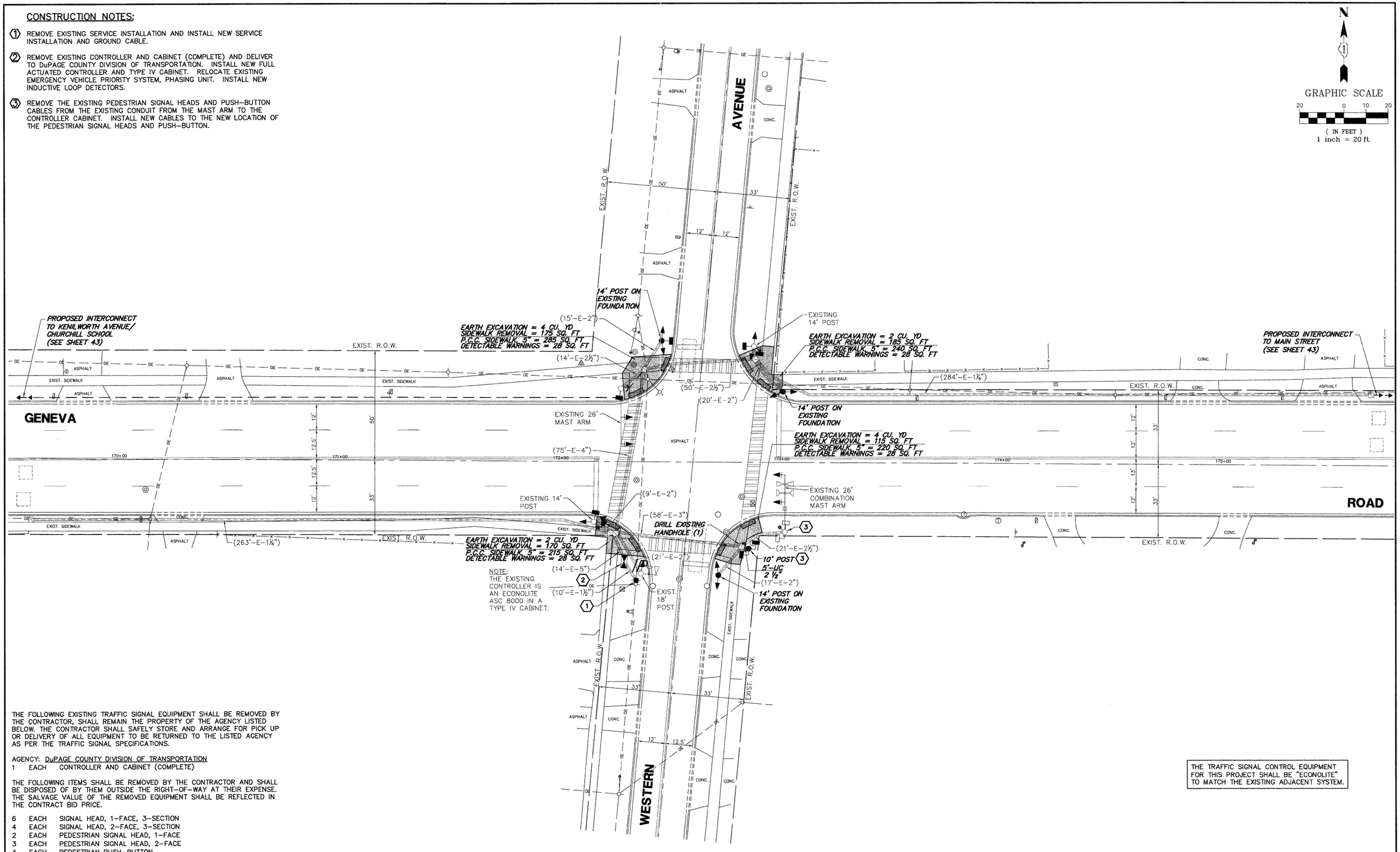
SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

GHA #4281.800

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	18
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

1. REMOVE EXISTING SERVICE INSTALLATION AND INSTALL NEW SERVICE INSTALLATION AND GROUND CABLE.
2. REMOVE EXISTING CONTROLLER AND CABINET (COMPLETE) AND DELIVER TO DuPAGE COUNTY DIVISION OF TRANSPORTATION. INSTALL NEW FULL ACTUATED CONTROLLER AND TYPE IV CABINET. RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT. INSTALL NEW INDUCTIVE LOOP DETECTORS.
3. REMOVE THE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON CABLES FROM THE EXISTING CONDUIT FROM THE MAST ARM TO THE CONTROLLER CABINET. INSTALL NEW CABLES TO THE NEW LOCATION OF THE PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON.



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DuPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH CONTROLLER AND CABINET (COMPLETE)

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 SIGNAL HEAD, 1-FACE, 3-SECTION
4 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
3 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
4 EACH PEDESTRIAN PUSH-BUTTON
4 EACH TRAFFIC SIGNAL BACKPLATE
3 EACH SIGNAL POST
1 EACH SERVICE INSTALLATION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GENEVA ROAD AT WESTERN AVENUE

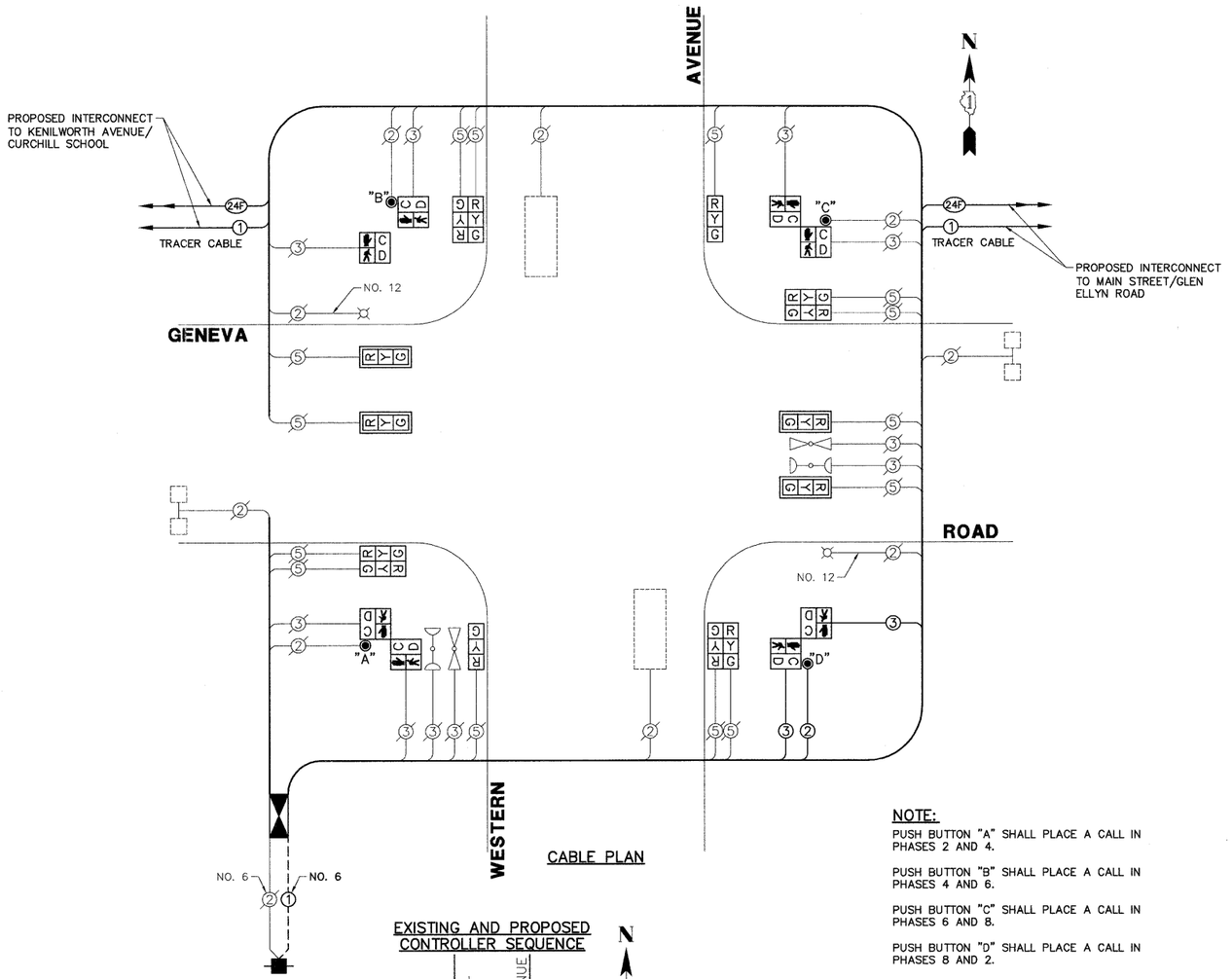
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	19
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

GENEVA ROAD AT WESTERN AVENUE

NO.	QUANT.	UNIT	
1.	12	CU YD	EARTH EXCAVATION
2.	960	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
3.	112	SQ FT	DETECTABLE WARNINGS
4.	645	SQ FT	SIDEWALK REMOVAL
5.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
6.	5	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
9.	1	EACH	TRANSCEIVER - FIBER OPTIC
10.	109	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
11.	236	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
12.	19	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
13.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
14.	4	FOOT	CONCRETE FOUNDATION, TYPE A
15.	1	EACH	DRILL EXISTING HANDHOLE
16.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
17.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
18.	4	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
19.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
20.	3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
21.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
22.	4	EACH	INDUCTIVE LOOP DETECTOR
23.	4	EACH	PEDESTRIAN PUSH-BUTTON
24.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
25.	393	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
26.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
27.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION



CABLE PLAN

NOTE:

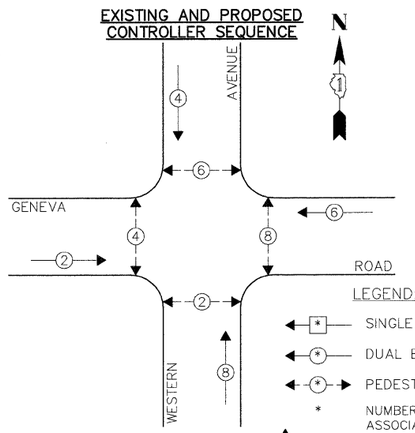
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.

PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

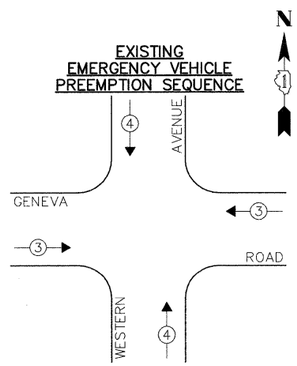
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 8 AND 2.

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	87.5
SIGNAL (GREEN)	14	135	15	0.25	52.5
ARROW	–	135	12	0.10	–
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	2	–	250	0.50	250.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	809.0

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691–4379
COMPANY: COM–ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 4281.800–TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GENEVA ROAD AT WESTERN AVENUE

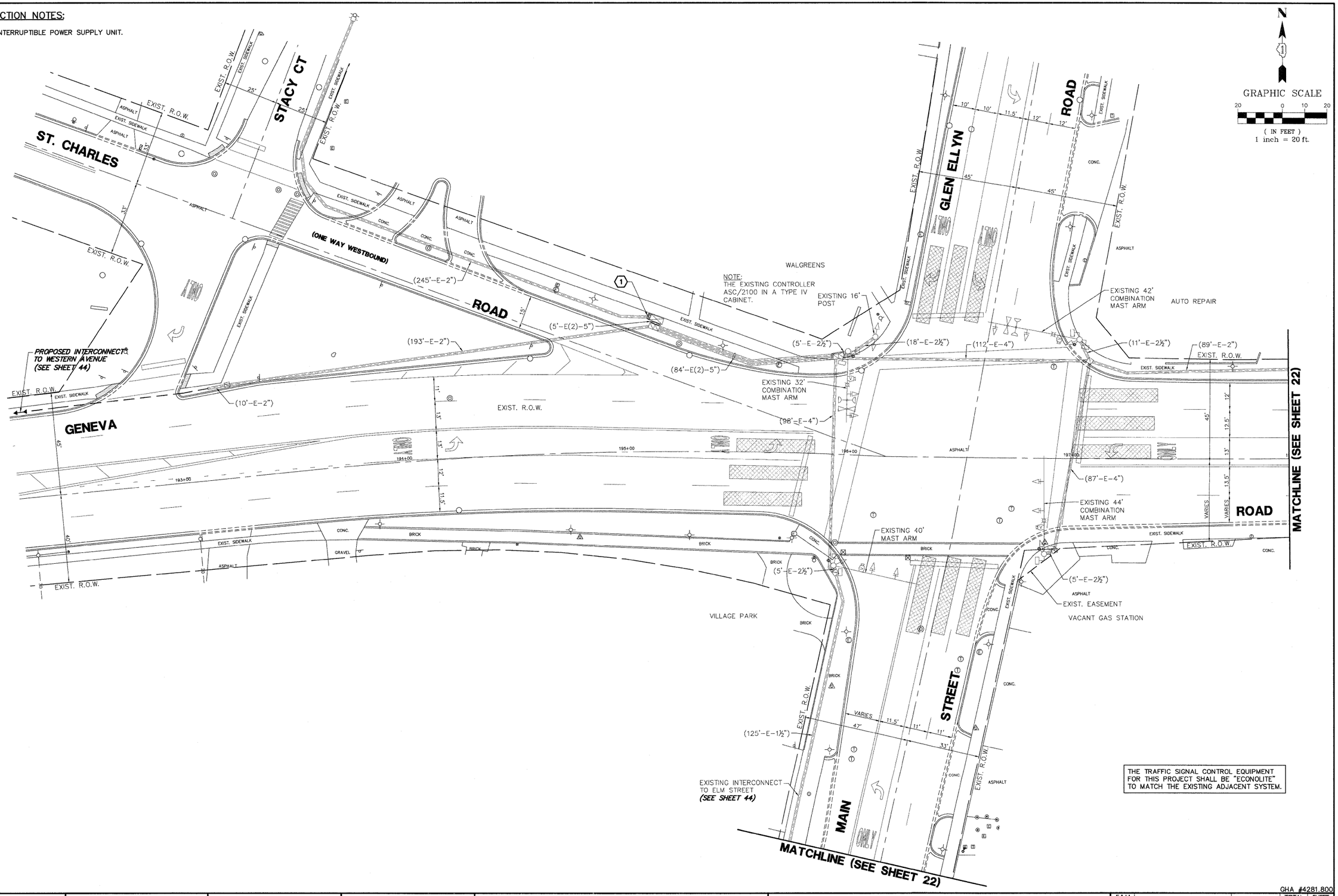
SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

GHA #4281.800

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09–00206–08–TL	DuPAGE	53	20
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

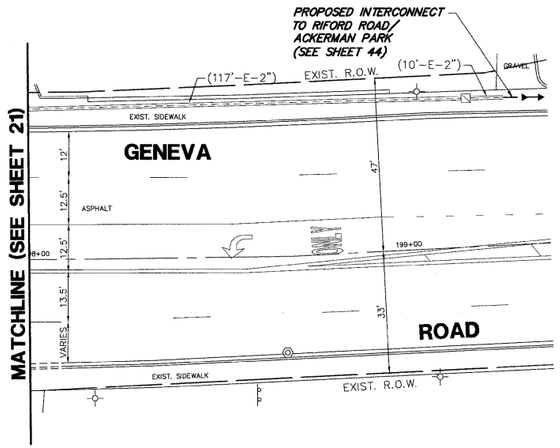
(1) INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT.

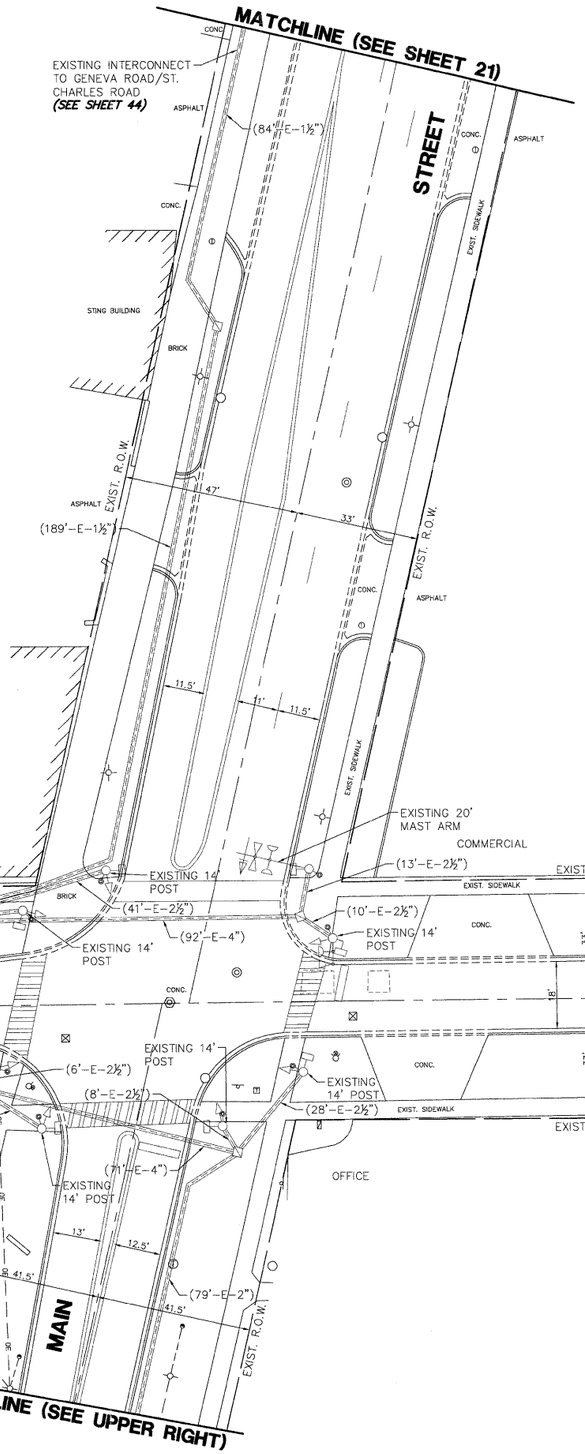


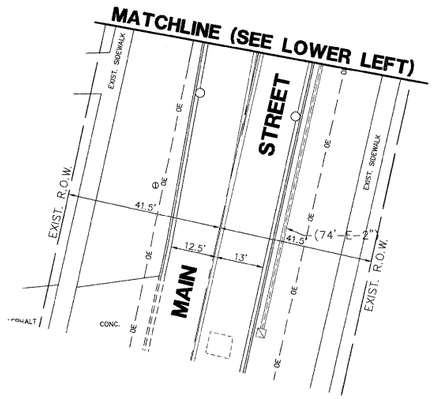
GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN GENEVA RD/ST. CHARLES RD AT MAIN ST/GLEN ELLYN RD		
		DRAWN - ZCW	REVISED -				
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	21
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			







N

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

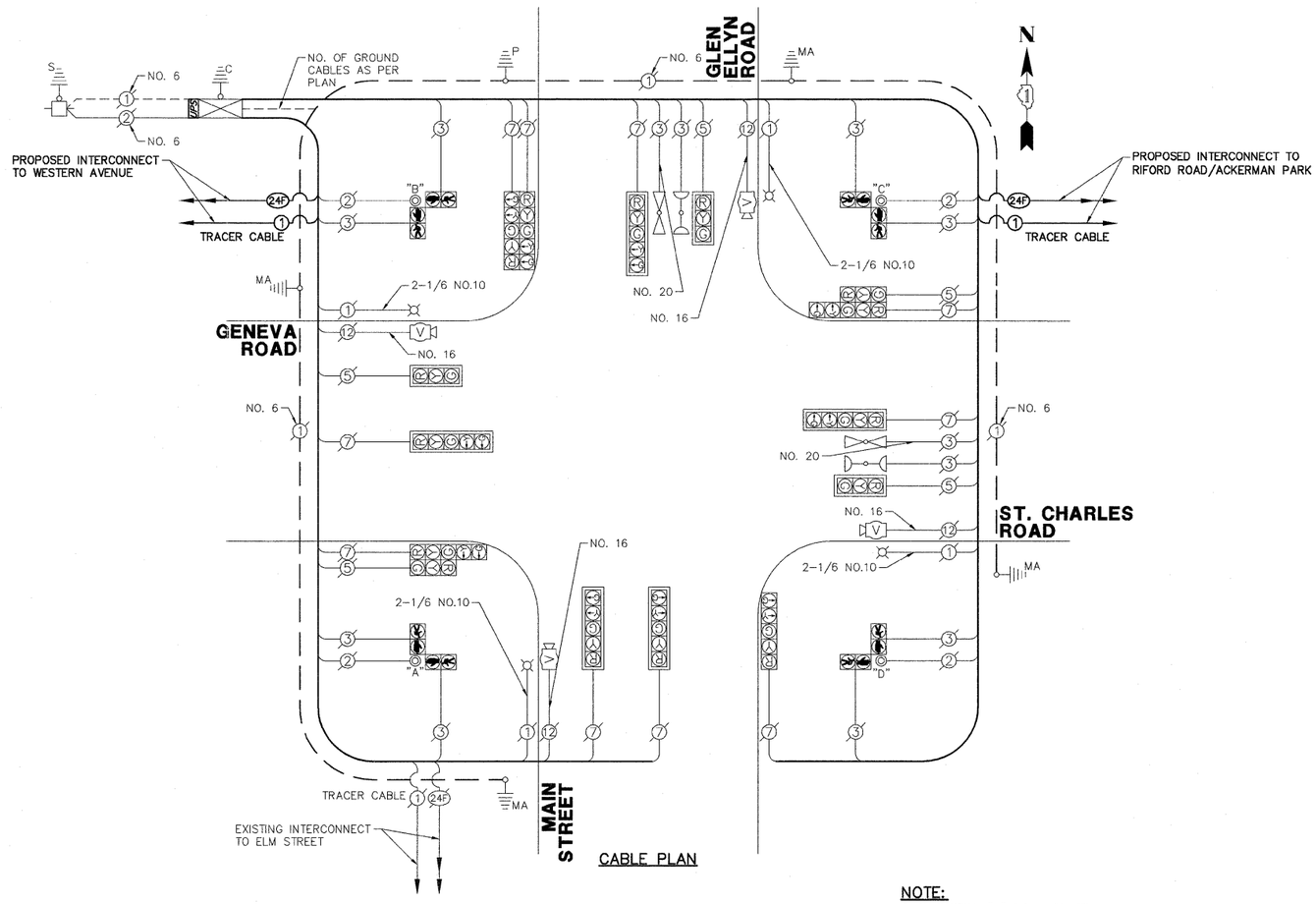
GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC SIGNAL MODERNIZATION PLAN ELM STREET AT MAIN STREET**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			1397	09-00206-08-TL	DuPAGE	53	22
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -					CONTRACT #:	63625	
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

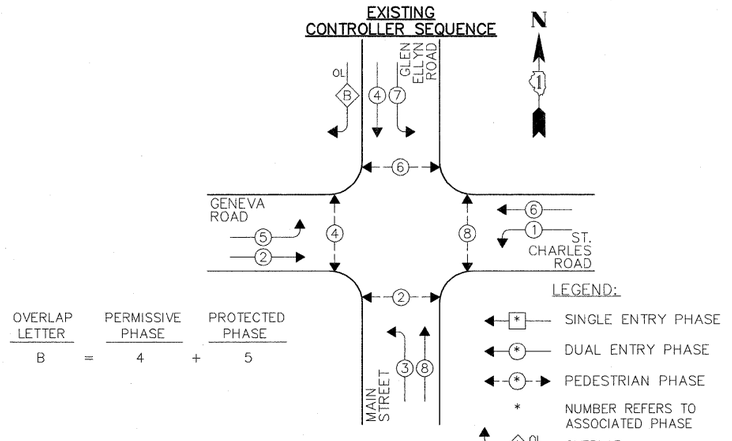
SCHEDULE OF QUANTITIES

GENEVA ROAD / ST. CHARLES ROAD AT MAIN STREET / GLEN ELLYN ROAD

NO.	QUANT.	UNIT	
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	TRANSCEIVER - FIBER OPTIC
3.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



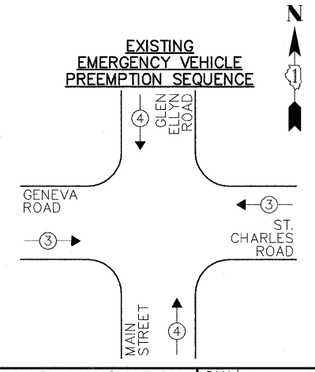
CABLE PLAN



EXISTING PHASE DESIGNATION DIAGRAM

NOTE:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 8 AND 2



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	15	135	17	0.50	1,012.5
SIGNAL (YELLOW)	15	135	25	0.25	506.25
SIGNAL (GREEN)	15	135	15	0.25	506.25
ARROW	20	135	12	0.10	270.0
PED. SIGNAL	8	90	25	1.00	720.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	4	250	–	0.50	500.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	1	–	150	1.00	150.0
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	3,765.0

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COM-ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	
		DRAWN - ZCW	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -	
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

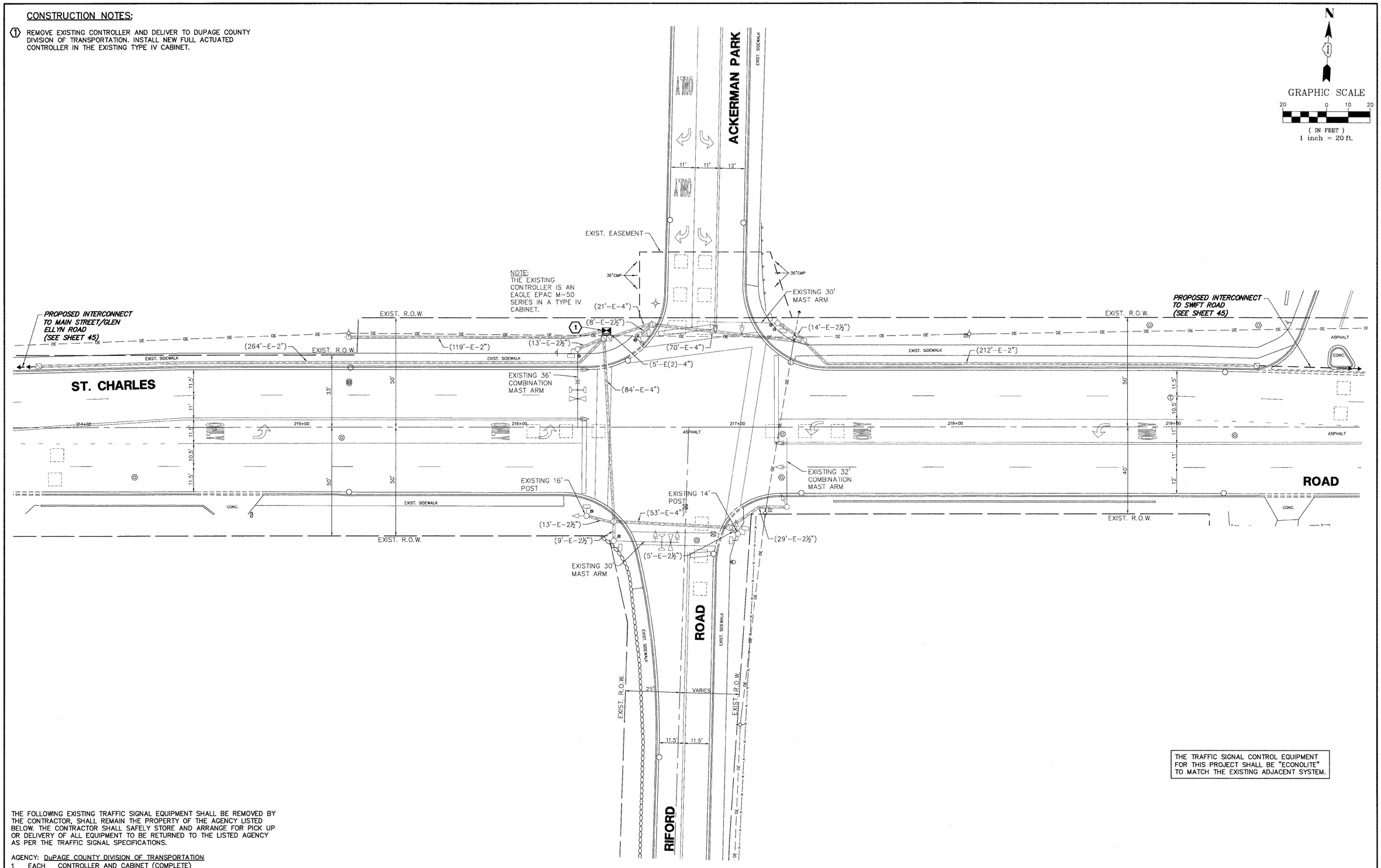
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GENEVA RD/ST. CHARLES RD AT MAIN ST/GLEN ELLYN RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	23
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

① REMOVE EXISTING CONTROLLER AND DELIVER TO DUPAGE COUNTY DIVISION OF TRANSPORTATION. INSTALL NEW FULL ACTUATED CONTROLLER IN THE EXISTING TYPE IV CABINET.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DuPAGE COUNTY DIVISION OF TRANSPORTATION
1 EACH CONTROLLER AND CABINET (COMPLETE)

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
ST. CHARLES ROAD AT RIFORD ROAD/ACKERMAN PARK

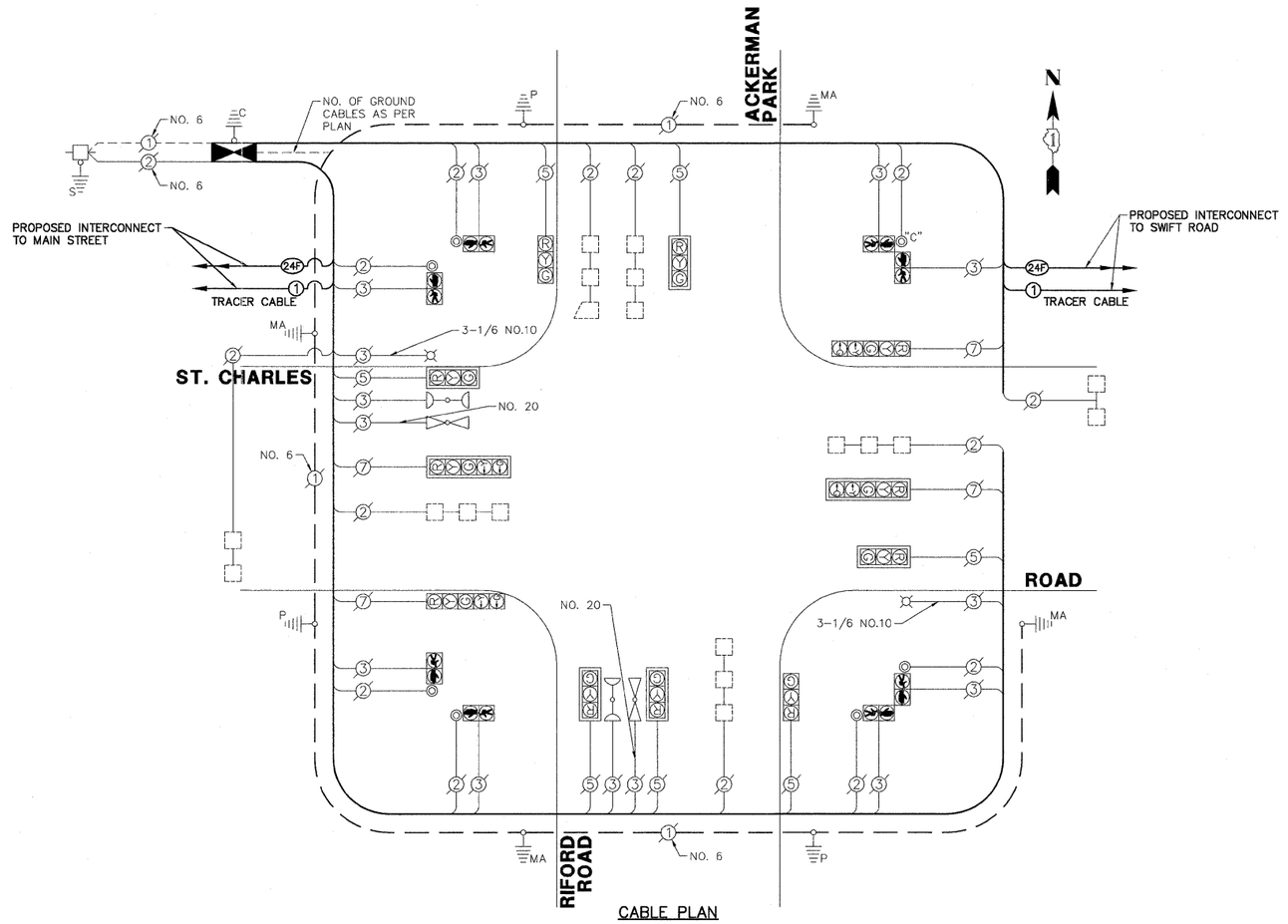
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	24
		CONTRACT #: 63625		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

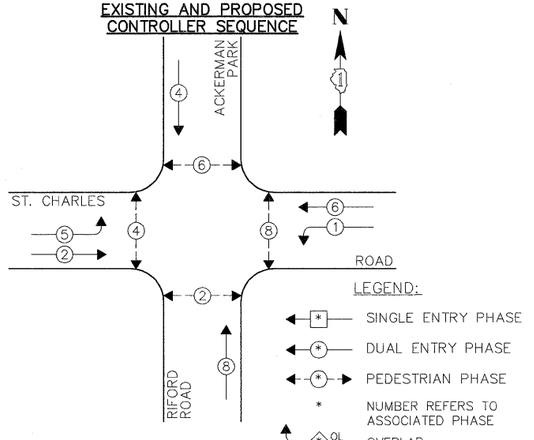
ST. CHARLES ROAD AT RIFORD ROAD/ ACKERMAN PARK

NO.	QUANT.	UNIT	
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	TRANSCEIVER - FIBER OPTIC
3.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4.	1	EACH	CONTROLLER (SPECIAL)



CABLE PLAN

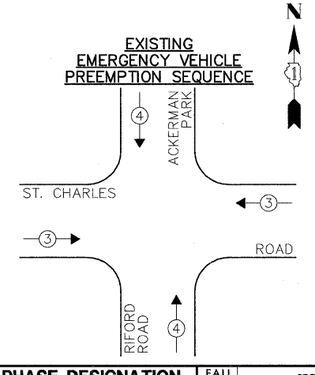
EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

NOTE:
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	11	135	17	0.50	94.0
SIGNAL (YELLOW)	11	135	25	0.25	69.0
SIGNAL (GREEN)	11	135	15	0.25	42.0
ARROW	8	135	12	0.10	10.0
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	2	250	–	0.50	250.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	765.0

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COM-ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

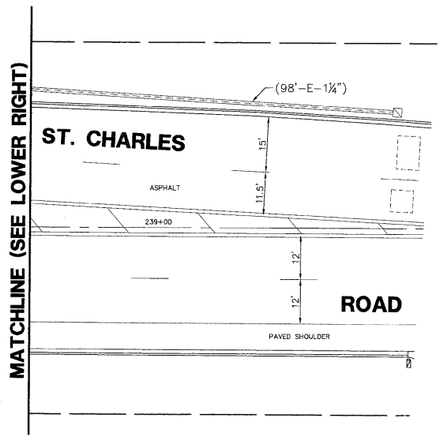
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
ST. CHARLES ROAD AT RIFORD ROAD/ACKERMAN PARK

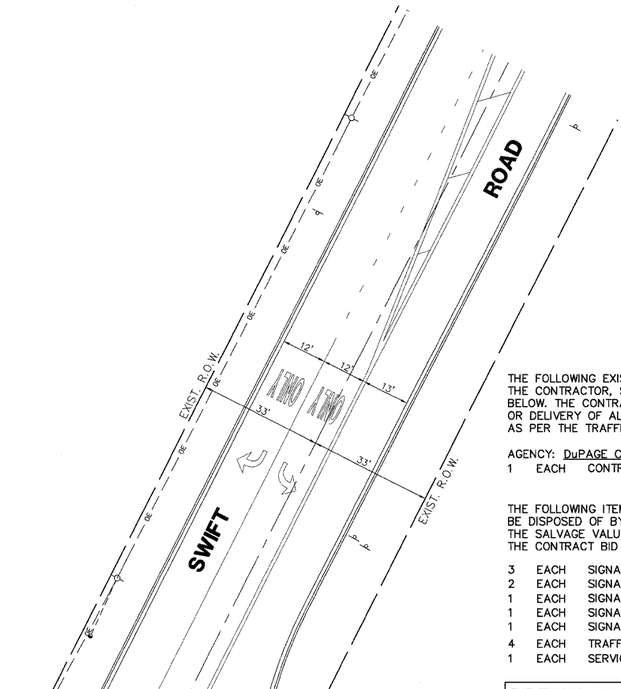
SCALE: N.A. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	25
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

1. REMOVE EXISTING SERVICE INSTALLATION AND INSTALL NEW SERVICE INSTALLATION AND GROUND CABLE.
2. REMOVE EXISTING 5C CABLE FROM SIGNAL HEAD TO CONTROLLER AND REPLACE WITH ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 7C.
3. REMOVE EXISTING CONTROLLER AND CABINET (COMPLETE) AND DELIVER TO DuPAGE COUNTY DIVISION OF TRANSPORTATION. INSTALL NEW FULL ACTUATED CONTROLLER AND TYPE IV CABINET ON EXISTING TYPE D FOUNDATION. RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT. INSTALL NEW INDUCTIVE LOOP DETECTORS.





GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

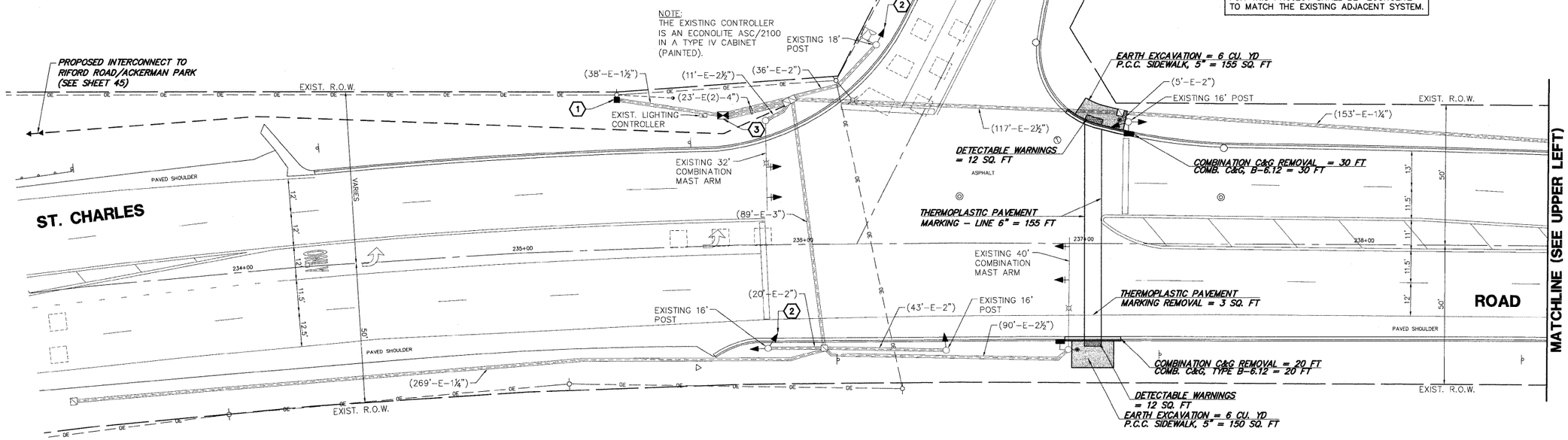
AGENCY: DuPAGE COUNTY DIVISION OF TRANSPORTATION

1	EACH	CONTROLLER AND CABINET (COMPLETE)

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.

3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 4-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-4 SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



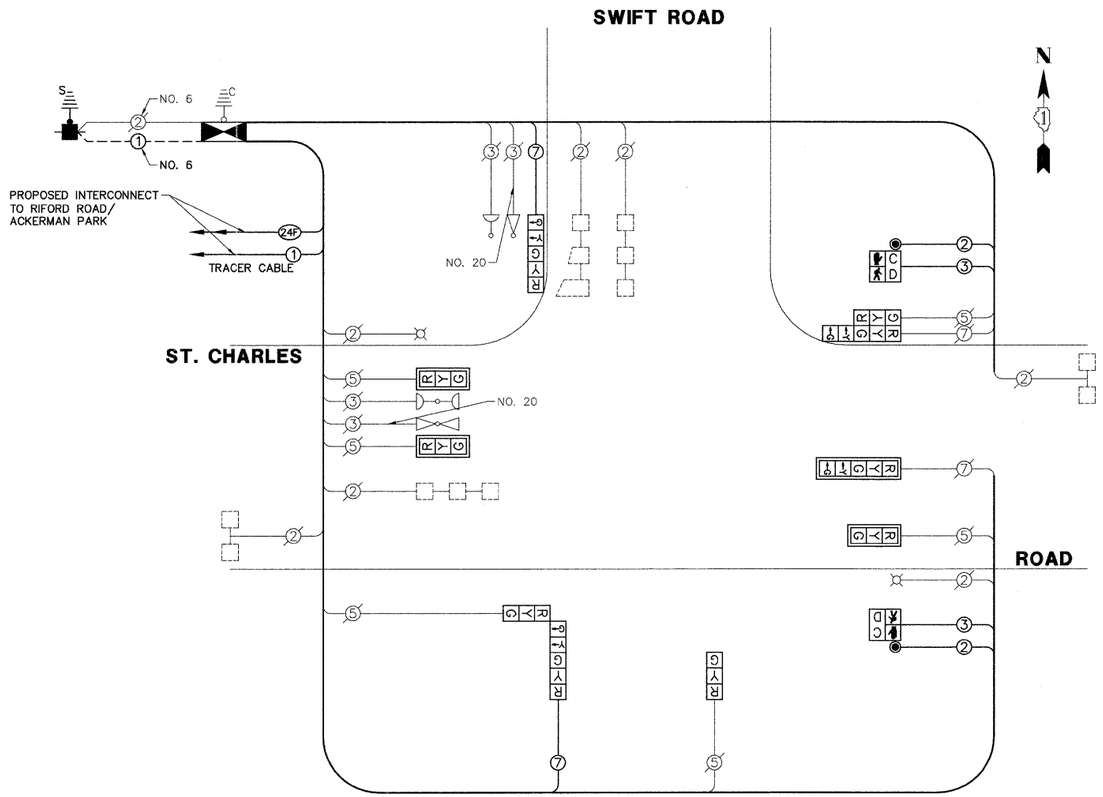
GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN ST. CHARLES ROAD AT SWIFT ROAD			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -					1397	09-00206-08-TL	DuPAGE	53	26
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -							CONTRACT #: 63625		
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

ST. CHARLES ROAD AT SWIFT ROAD

NO.	QUANT.	UNIT	
1.	12	CU YD	EARTH EXCAVATION
2.	305	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
3.	24	SQ FT	DETECTABLE WARNINGS
4.	50	FOOT	COMBINATION CURB AND GUTTER REMOVAL
5.	50	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
6.	155	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
7.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
8.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
9.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
10.	1	EACH	TRANSCEIVER - FIBER OPTIC
11.	411	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
12.	429	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
13.	266	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
14.	47	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
15.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
16.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
17.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
18.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
19.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
20.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
21.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
22.	5	EACH	INDUCTIVE LOOP DETECTOR
23.	2	EACH	PEDESTRIAN PUSH-BUTTON
24.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
25.	238	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
26.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
27.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION



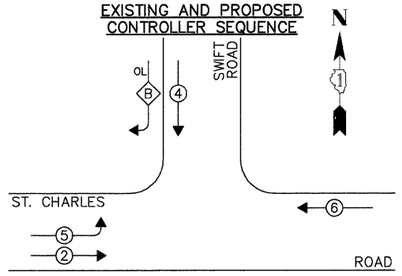
CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

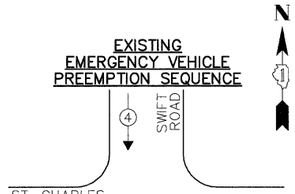
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						TOTAL WATTAGE
		WATTAGE				
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION		
SIGNAL (RED)	10	135	17	0.50		85.0
SIGNAL (YELLOW)	10	135	25	0.25		62.5
SIGNAL (GREEN)	10	135	15	0.25		37.5
ARROW	8	135	12	0.10		9.6
PED. SIGNAL	2	90	25	1.00		50.0
CONTROLLER	1	–	100	1.00		100.0
LUMINAIRE	2	250	–	0.50		250.0
L.E.D. ST. NAME SIGN	–	–	64	0.50		–
VIDEO SYSTEM	–	–	150	1.00		–
BATTERY BACKUP	–	–	25	1.00		–
ILLUMINATED SIGN	–	–	25	0.05		–
				TOTAL =		594.6

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691–4379
COMPANY: COM–ED

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OVERLAP

EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

GHA #4281.800

FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
4281.800–TR1.dwg		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
ST. CHARLES ROAD AT SWIFT ROAD

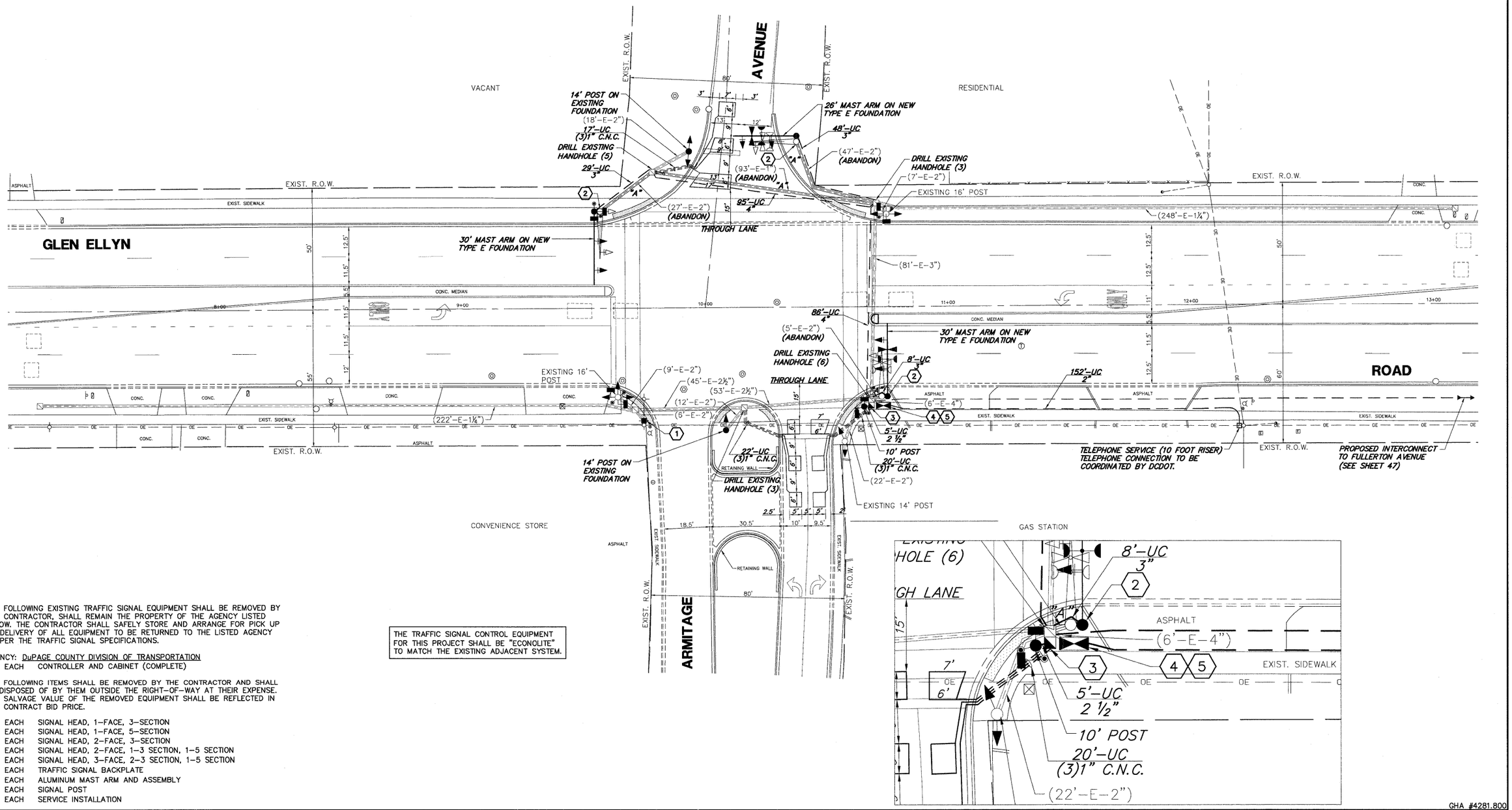
SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09–00206–08–TL	DuPAGE	53	27
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

1. REMOVE EXISTING SERVICE INSTALLATION AND INSTALL A NEW SERVICE INSTALLATION AND GROUND CABLE.
2. REMOVE EXISTING ALUMINUM MAST ARM ASSEMBLY, FOUNDATION, ALL CABLES BACK TO THE CONTROLLER CABINET, AND ABANDON ALL CONDUIT IN PLACE.
3. REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE.
4. MODIFY EXISTING CONTROLLER FOUNDATION TO ACCOMMODATE NEW CONDUITS.
5. REMOVE EXISTING CONTROLLER AND CABINET (COMPLETE) AND INSTALL NEW FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL, MASTER CONTROLLER, SPECIAL, AND TRANSCEIVER-FIBER OPTIC.

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DuPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH CONTROLLER AND CABINET (COMPLETE)

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.

5 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
1 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
1 EACH SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-5 SECTION
3 EACH TRAFFIC SIGNAL BACKPLATE
3 EACH ALUMINUM MAST ARM AND ASSEMBLY
3 EACH SIGNAL POST
1 EACH SERVICE INSTALLATION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GLEN ELLYN ROAD AT ARMITAGE ROAD

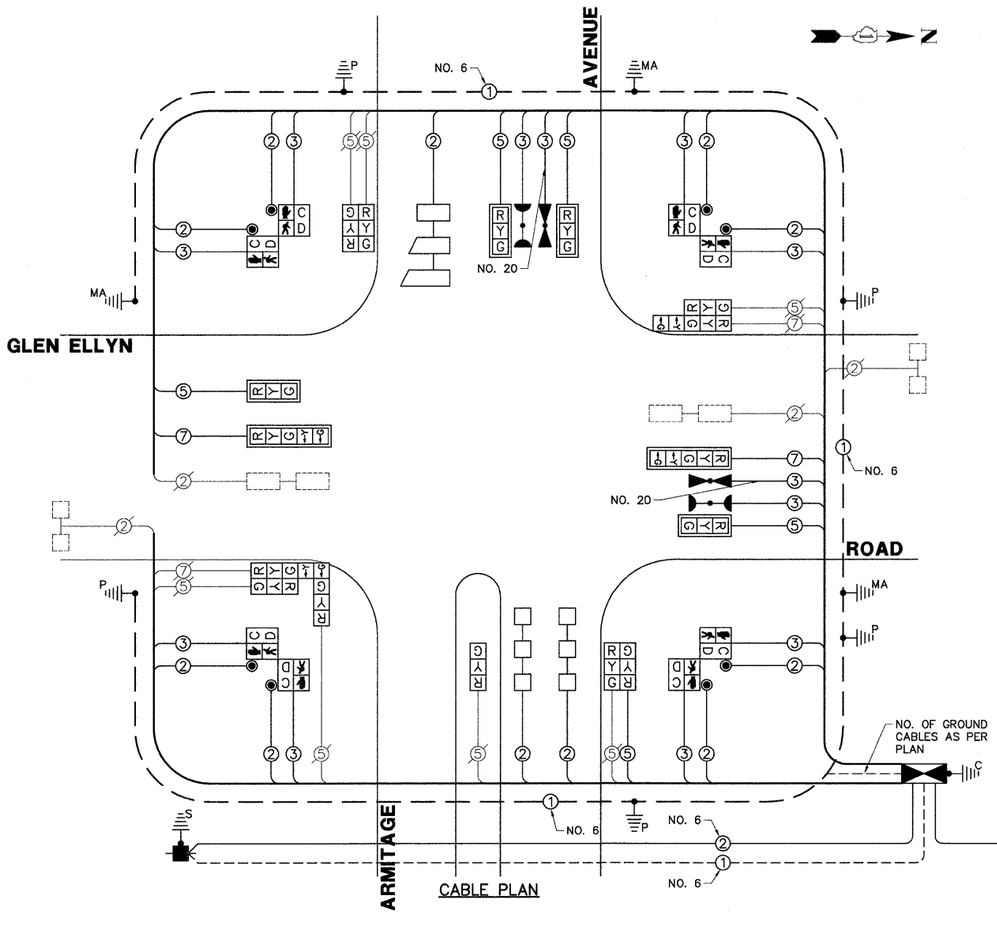
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	28
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

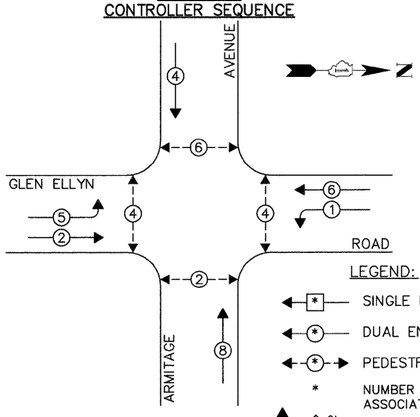
GLEN ELLYN ROAD AT ARMITAGE AVENUE

NO.	QUANT.	UNIT	
1.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
2.	150	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
3.	5	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
4.	85	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
5.	181	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
6.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET
8.	1	EACH	MASTER CONTROLLER
9.	1	EACH	TRANSCEIVER - FIBER OPTIC
10.	567	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
11.	900	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
12.	811	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
13.	385	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
14.	297	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C
15.	322	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
16.	686	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
17.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
18.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
19.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.
20.	2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
21.	4	FOOT	CONCRETE FOUNDATION, TYPE A
22.	1	EACH	MODIFY EXISTING TYPE "D" FOUNDATION
23.	30	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
24.	17	EACH	DRILL EXISTING HANDHOLE
25.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
26.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
27.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
28.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
29.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
30.	1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED
31.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
32.	6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
33.	7	EACH	INDUCTIVE LOOP DETECTOR
34.	340	FOOT	DETECTOR LOOP, TYPE I
35.	2	EACH	LIGHT DETECTOR
36.	1	EACH	LIGHT DETECTOR AMPLIFIER
37.	8	EACH	PEDESTRIAN PUSH-BUTTON
38.	803	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
38.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
40.	4	EACH	REMOVE EXISTING CONCRETE FOUNDATION
41.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION
42.	4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
43.	1	EACH	REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE

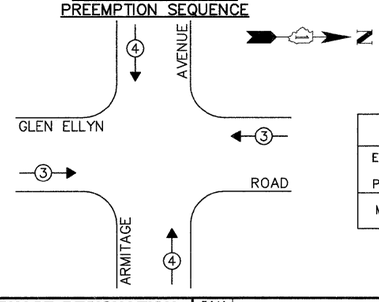


LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OVERLAP

PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	| |

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.25	60.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	605.6

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691–4379
COMPANY: COM–ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800–TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GLEN ELLYN ROAD AT ARMITAGE AVENUE

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

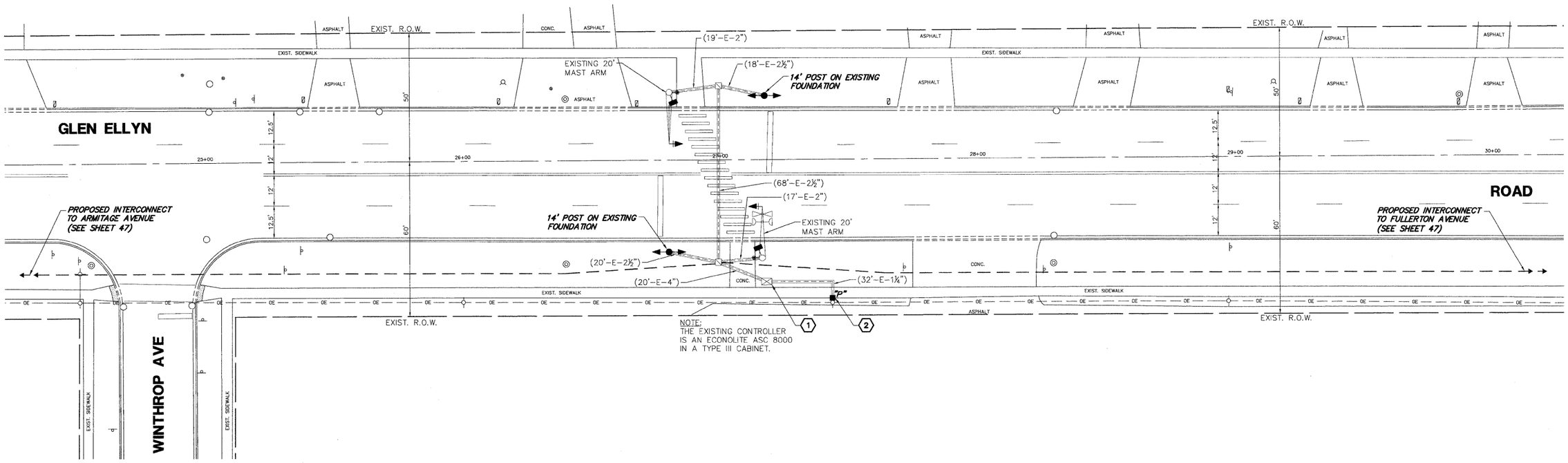
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09–00206–08–TL	DuPAGE	53	29
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

(1) REMOVE EXISTING CONTROLLER AND CABINET (COMPLETE) AND DELIVER TO DuPAGE COUNTY DIVISION OF TRANSPORTATION. INSTALL NEW FULL-ACTUATED CONTROLLER AND TYPE II CABINET (POST-TOP MOUNTED).

(2) REMOVE EXISTING SERVICE INSTALLATION AND INSTALL NEW SERVICE INSTALLATION AND GROUND CABLE.

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DuPAGE COUNTY DIVISION OF TRANSPORTATION
1 EACH CONTROLLER AND CABINET, (COMPLETE)

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 SIGNAL HEAD, 1-FACE, 3-SECTION
2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
2 EACH PEDESTRIAN SIGNAL HEAD
2 EACH PEDESTRIAN PUSH-BUTTON
2 EACH TRAFFIC SIGNAL BACKPLATE
2 EACH SIGNAL POST
1 EACH SERVICE INSTALLATION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

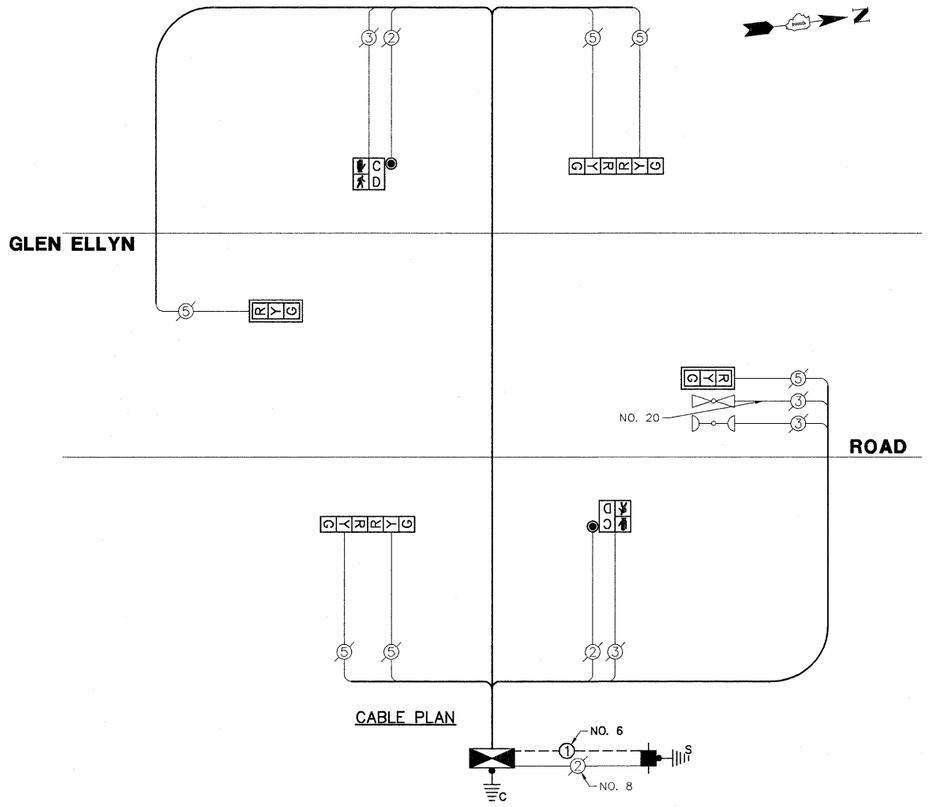
FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MID-BLOCK CROSSING GLEN ELLYN ROAD AT MID-BLOCK CROSSING				
		DRAWN - ZCW	REVISED -						
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -						
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE 1"=20'	SHEET NO. OF SHEETS	STA.	TO STA.	

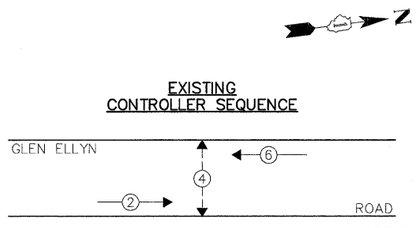
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	30
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

GLEN ELLYN ROAD AT MID-BLOCK CROSSING

NO.	QUANT.	UNIT	
1.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
2.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE II CABINET
4.	1	EACH	TRANSCEIVER - FIBER OPTIC
5.	41	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
6.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
7.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
8.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
9.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10.	2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
11.	2	EACH	PEDESTRIAN PUSH-BUTTON
12.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION
13.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
14.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

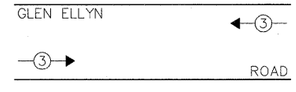




EXISTING CONTROLLER SEQUENCE

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	6	135	17	0.50	51.0
SIGNAL (YELLOW)	6	135	25	0.25	37.5
SIGNAL (GREEN)	6	135	15	0.25	22.5
ARROW	–	135	12	0.10	–
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	–	–	250	0.50	–
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	261.0

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 891-4379
COMPANY: COM-ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

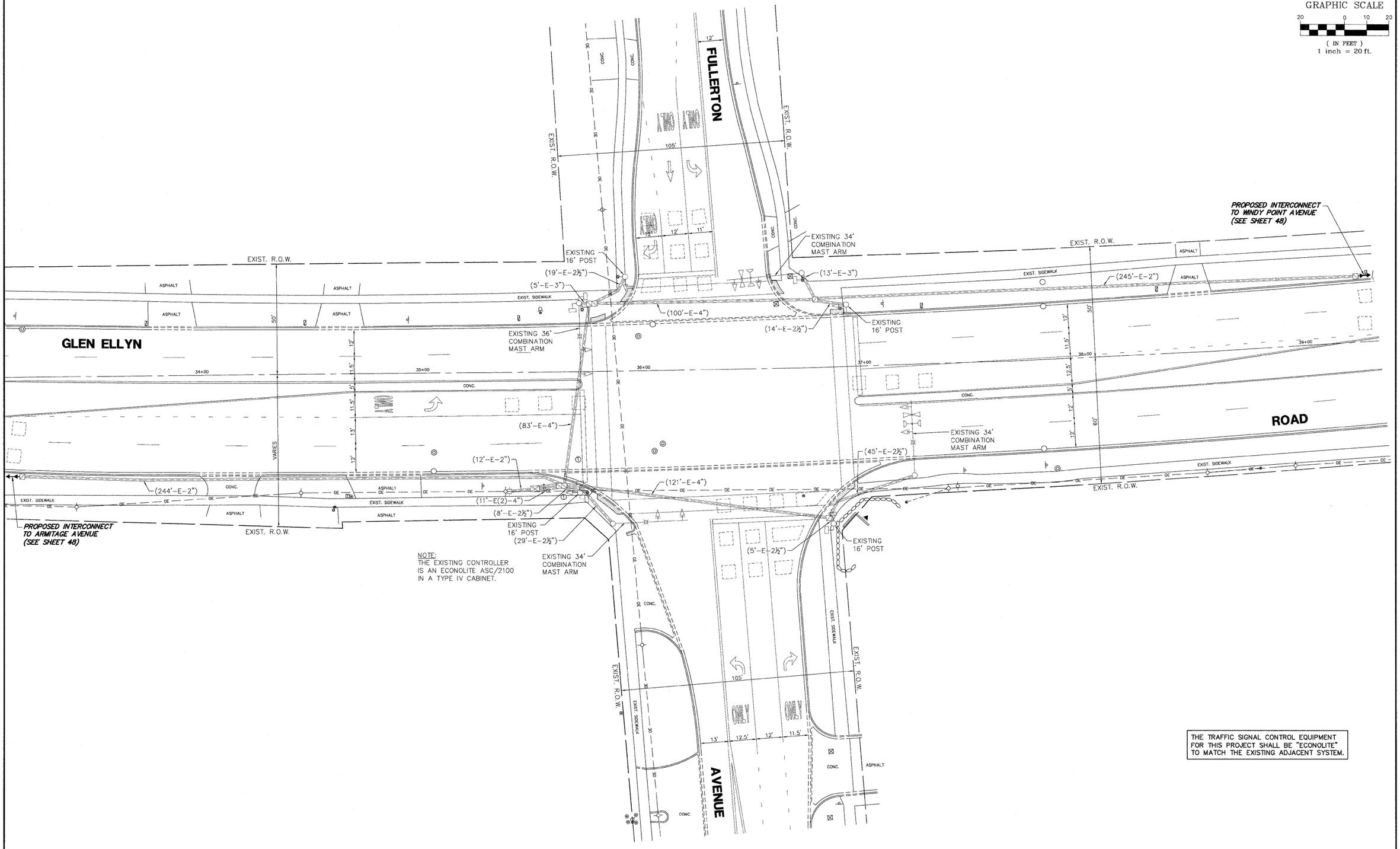
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GLEN ELLYN ROAD AT MID-BLOCK CROSSING

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

GHA #4281.800

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	31
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.



GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GLEN ELLYN ROAD AT FULLERTON AVENUE

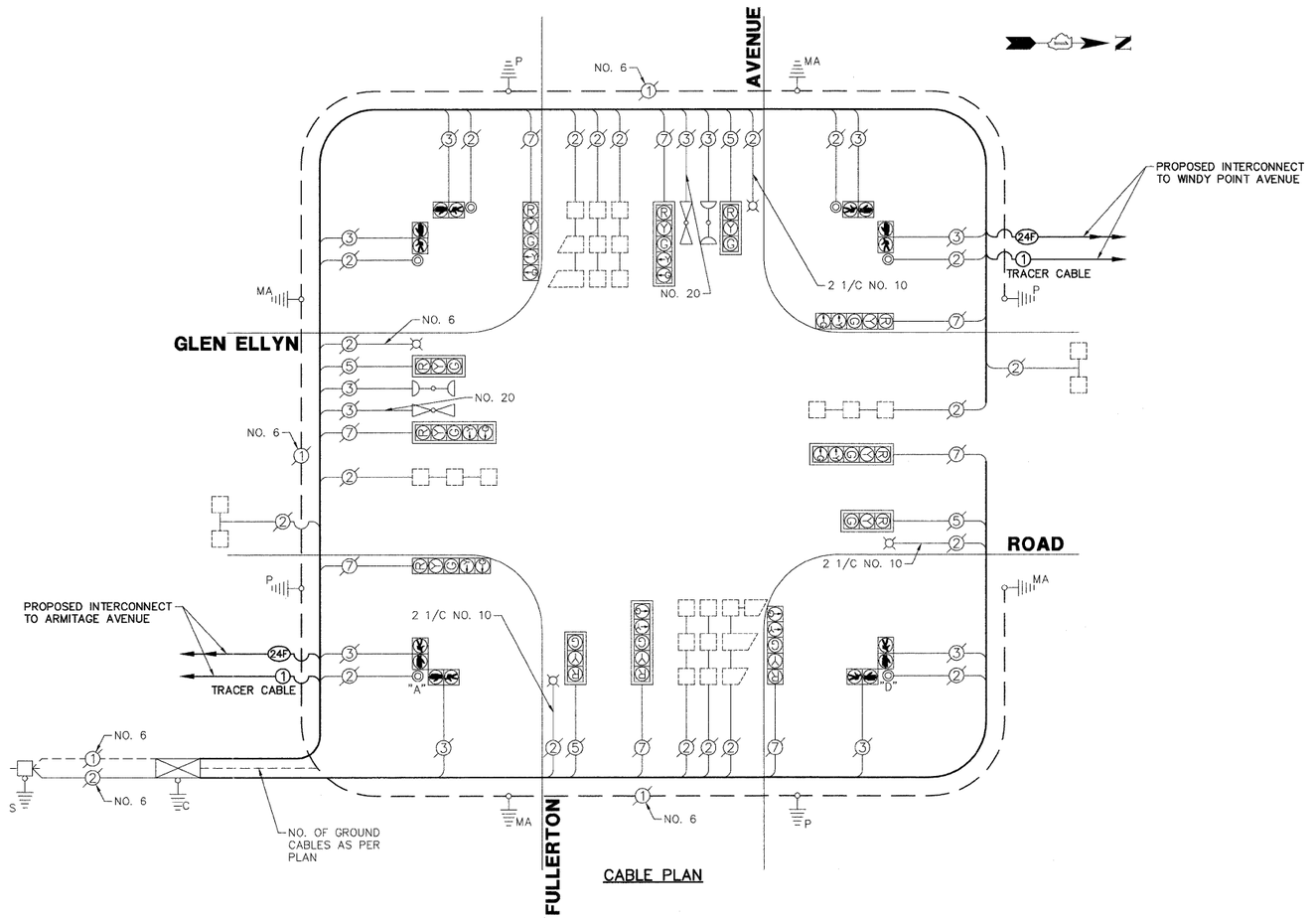
SCALE 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	32
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

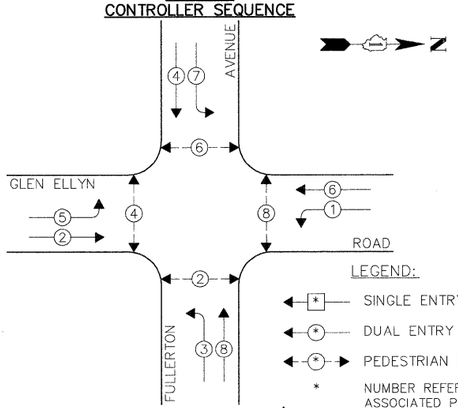
GLEN ELLYN ROAD AT FULLERTON AVENUE

NO.	QUANT.	UNIT	
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	TRANSCEIVER - FIBER OPTIC



CABLE PLAN

EXISTING CONTROLLER SEQUENCE



LEGEND:

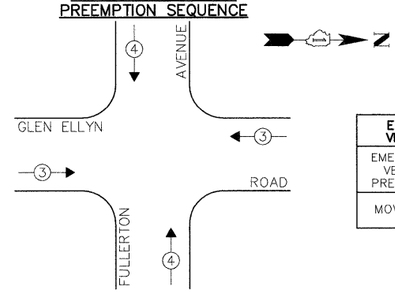
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

NOTE:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⟵	↑ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	4	250	–	0.50	500.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	1041.2

ENERGY COSTS – BILLED TO: VILLAGE OF GLEN ELLYN
(ADDRESS) 20 S. LAMBERT ROAD
(ADDRESS) GLEN ELLYN, IL 60137
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COM-ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

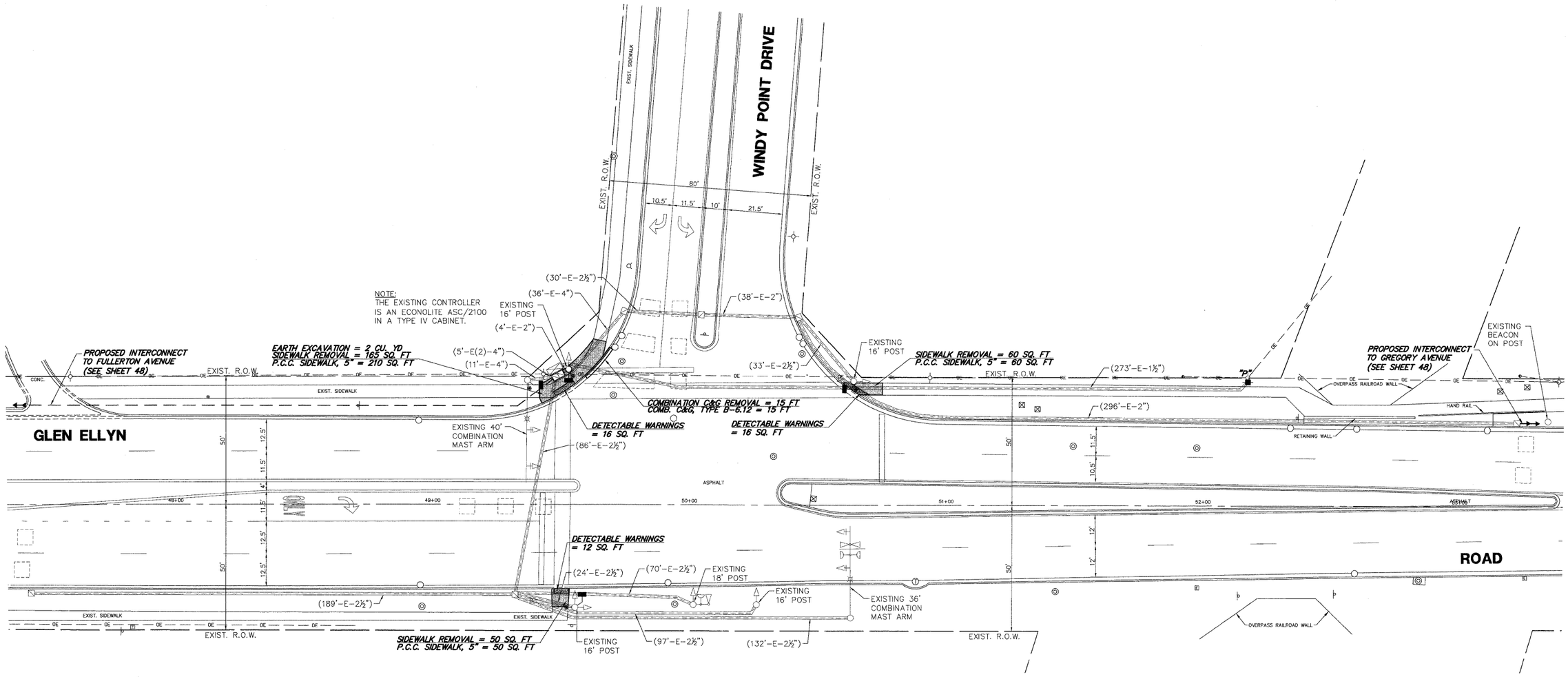
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GLEN ELLYN ROAD AT FULLERTON AVENUE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	33
		CONTRACT #:	63625	
	ILLINOIS	FED. AID PROJECT		

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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.

5	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GLEN ELLYN ROAD AT WINDY POINT DRIVE

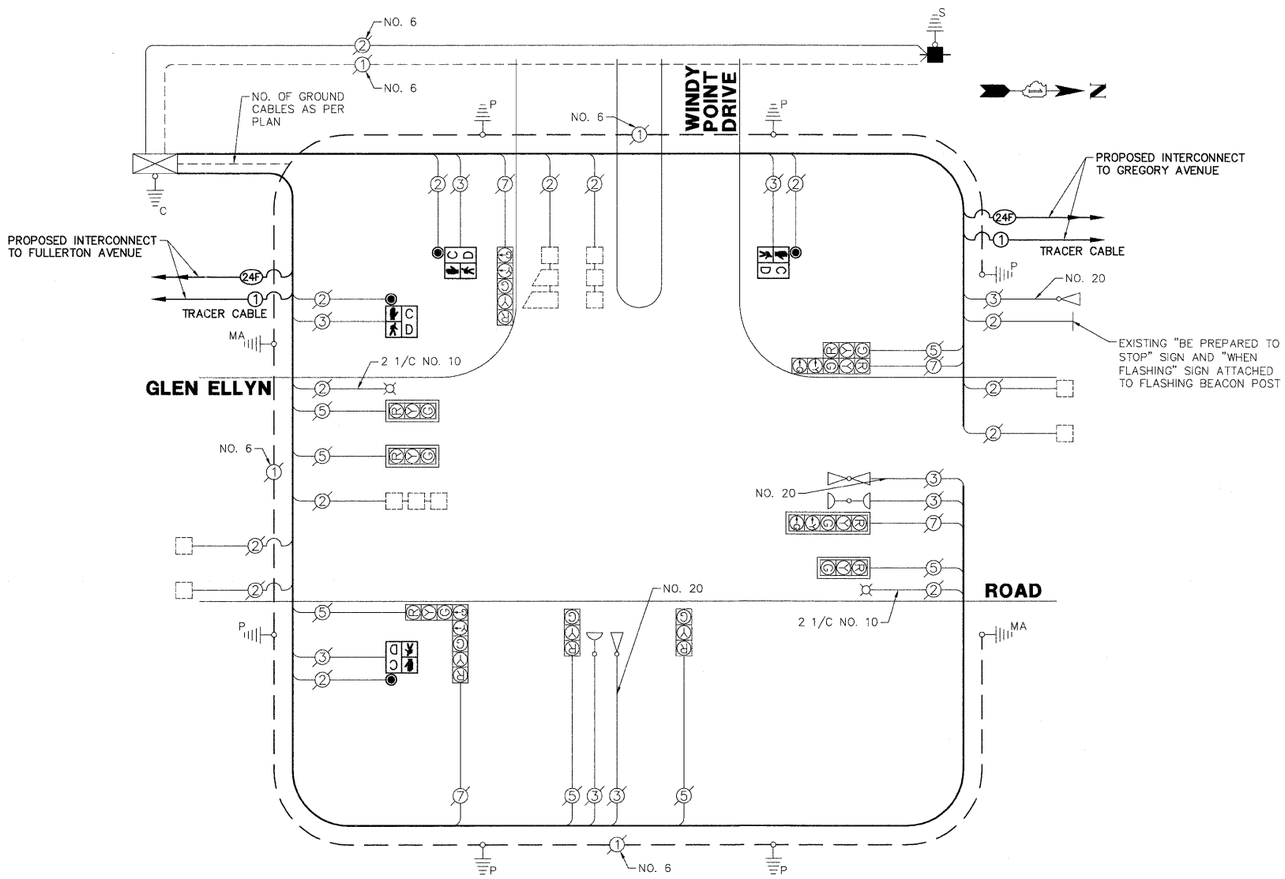
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	34
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

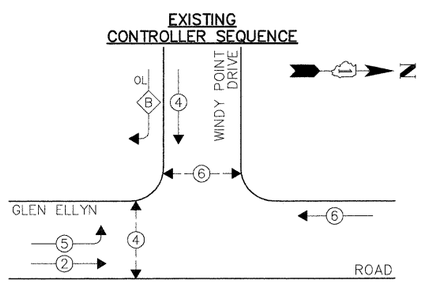
SCHEDULE OF QUANTITIES

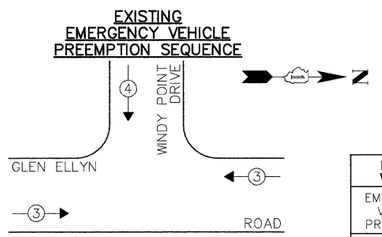
GLEN ELLYN ROAD AT WINDY POINT DRIVE

NO.	QUANT.	UNIT	
1.	2	CU YD	EARTH EXCAVATION
2.	44	SQ FT	DETECTABLE WARNINGS
3.	15	FOOT	COMBINATION CURB AND GUTTER REMOVAL
4.	275	SQ FT	SIDEWALK REMOVAL
5.	15	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
6.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	TRANSCEIVER - FIBER OPTIC
9.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10.	4	EACH	PEDESTRIAN PUSH-BUTTON
11.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
12.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION



CABLE PLAN





EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	11	135	17	0.50	93.5
SIGNAL (YELLOW)	11	135	25	0.25	68.75
SIGNAL (GREEN)	11	135	15	0.25	41.25
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	2	250	–	0.50	250.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	–	–	150	1.00	–
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	663.1

ENERGY COSTS – BILLED TO: VILLAGE OF GLENDALE HEIGHTS
(ADDRESS) 300 CIVIL CENTER PLAZA
(ADDRESS) GLENDALE HEIGHTS, IL 60139
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691–4379
COMPANY: COM–ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800–TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED – JRD	REVISED –
		DRAWN – ZCW	REVISED –
	PLOT SCALE = 1" = .0833'	CHECKED – KLB	REVISED –
	PLOT DATE = 12/16/2011	DATE – 12/16/2011	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GLEN ELLYN ROAD AT WINDY POINT DRIVE

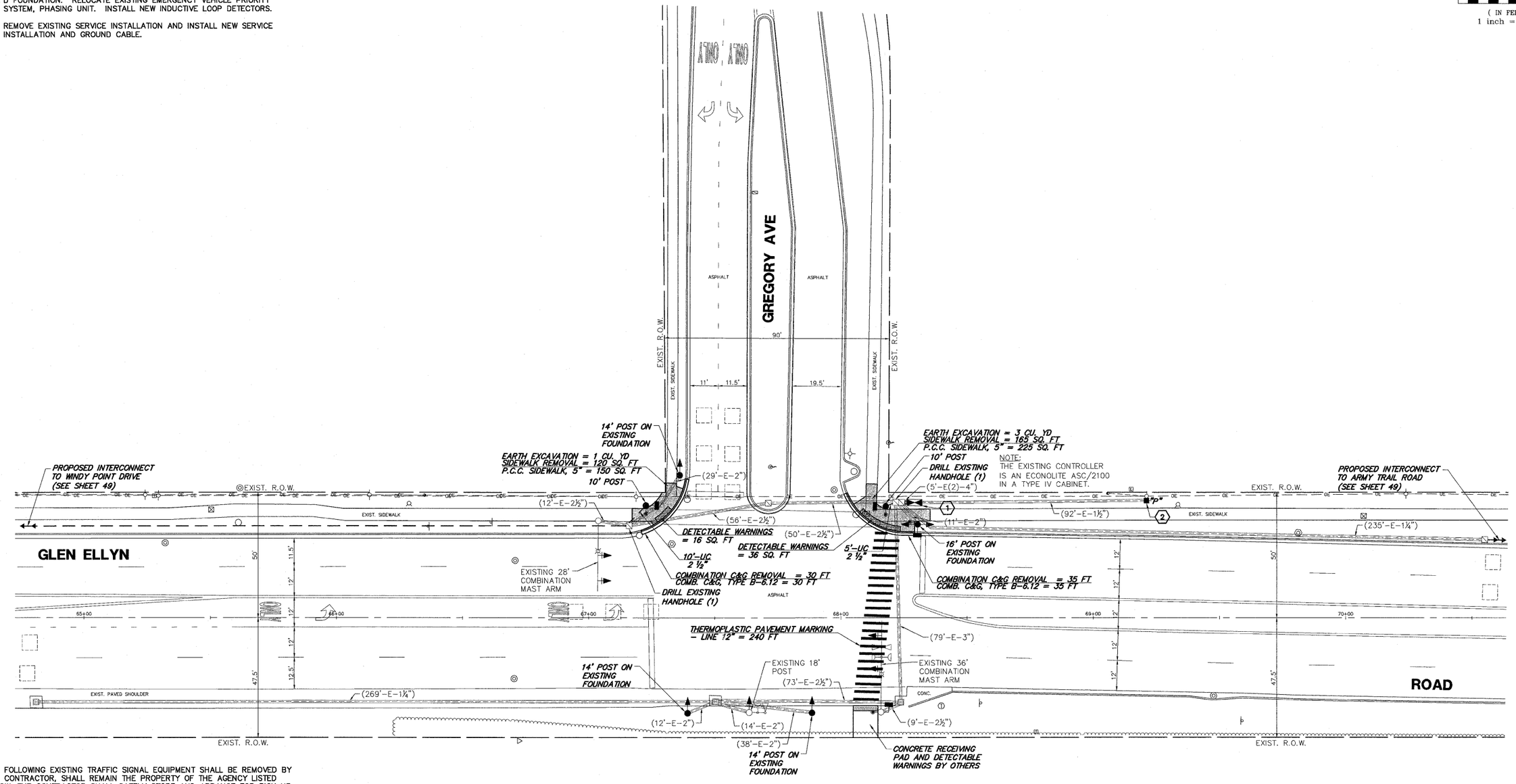
SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09–00206–08–TL	DuPAGE	53	35
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

1. REMOVE EXISTING CONTROLLER AND CABINET (COMPLETE) AND DELIVER TO DuPAGE COUNTY DIVISION OF TRANSPORTATION. INSTALL NEW FULL-ACTUATED CONTROLLER AND TYPE IV CABINET ON EXISTING TYPE D FOUNDATION. RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT. INSTALL NEW INDUCTIVE LOOP DETECTORS.
2. REMOVE EXISTING SERVICE INSTALLATION AND INSTALL NEW SERVICE INSTALLATION AND GROUND CABLE.

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DuPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH CONTROLLER AND CABINET, (COMPLETE)

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.

7 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
1 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
1 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
4 EACH TRAFFIC SIGNAL BACKPLATE
4 EACH SIGNAL POST
1 EACH SERVICE INSTALLATION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GLEN ELLYN ROAD AT GREGORY AVENUE

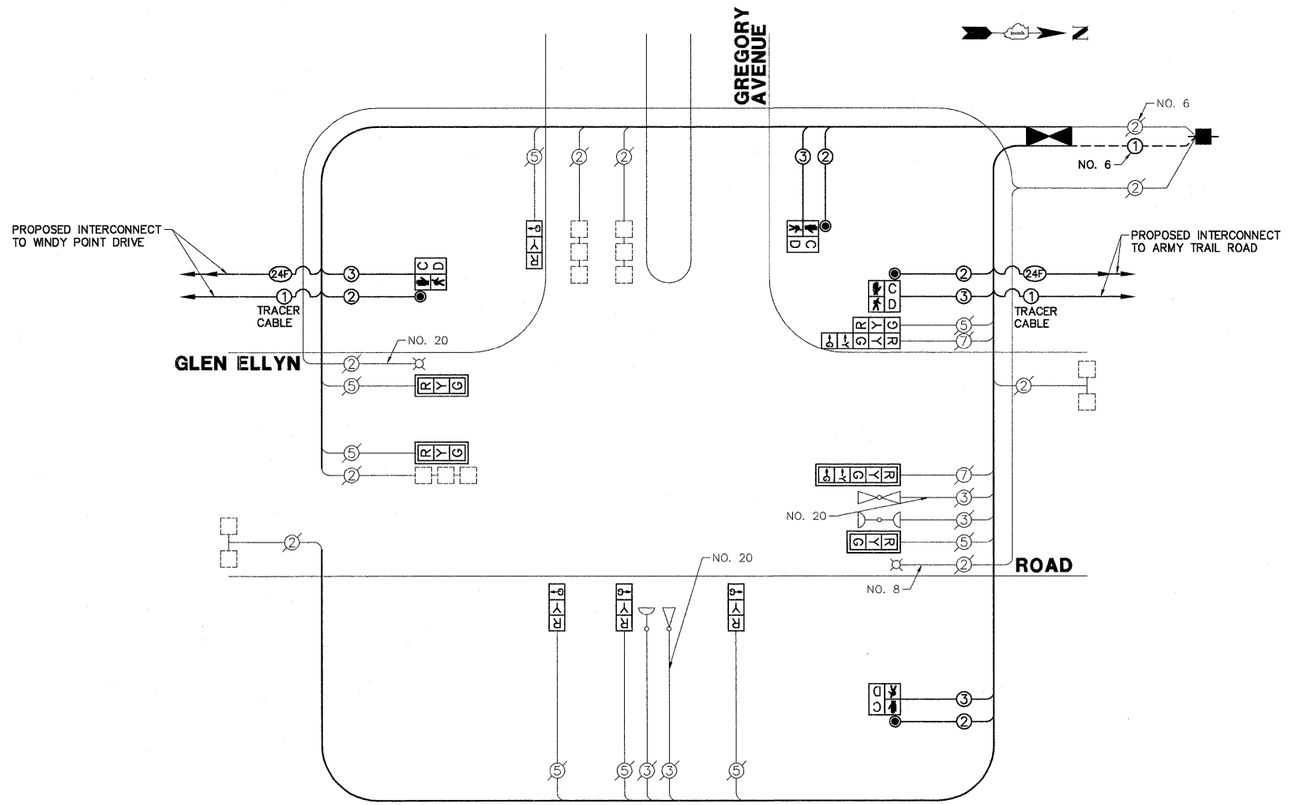
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	36
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

GLEN ELLYN ROAD AT GREGORY AVENUE

NO.	QUANT.	UNIT	
1.	4	CU YD	EARTH EXCAVATION
2.	375	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
3.	52	SQ FT	DETECTABLE WARNINGS
4.	65	FOOT	COMBINATION CURB AND GUTTER REMOVAL
5.	285	SQ FT	SIDEWALK REMOVAL
6.	65	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
7.	240	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
8.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
9.	15	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
10.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
11.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
12.	1	EACH	TRANSCEIVER - FIBER OPTIC
13.	361	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
14.	397	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
15.	101	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
16.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
17.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
18.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
19.	8	FOOT	CONCRETE FOUNDATION, TYPE A
20.	2	EACH	DRILL EXISTING HANDHOLE
21.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
22.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
23.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
24.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
25.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
26.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
27.	5	EACH	INDUCTIVE LOOP DETECTOR
28.	4	EACH	PEDESTRIAN PUSH-BUTTON
29.	1	EACH	REMOVE EXISTING SERVICE INSTALLATION
30.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
31.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT



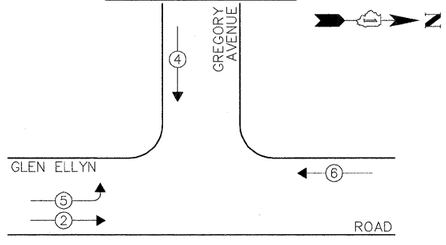
CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

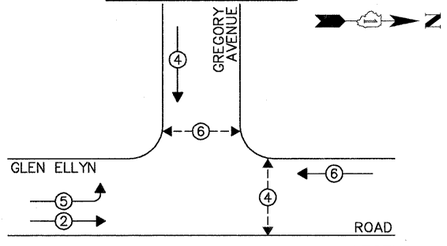
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						TOTAL WATTAGE
		WATTAGE				
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION		
SIGNAL (RED)	10	135	17	0.50		85.0
SIGNAL (YELLOW)	10	135	25	0.25		62.5
SIGNAL (GREEN)	10	135	15	0.25		37.5
ARROW	4	135	12	0.10		4.8
PED. SIGNAL	4	90	25	1.00		100.0
CONTROLLER	1	–	100	1.00		100.0
LUMINAIRE	2	250	–	0.50		250.0
L.E.D. ST. NAME SIGN	–	–	64	0.50		–
VIDEO SYSTEM	–	–	150	1.00		–
BATTERY BACKUP	–	–	25	1.00		–
ILLUMINATED SIGN	–	–	25	0.05		–
					TOTAL =	639.8

ENERGY COSTS – BILLED TO: VILLAGE OF GLENDALE HEIGHTS
(ADDRESS) 300 CIVIL CENTER PLAZA
(ADDRESS) GLENDALE HEIGHTS, IL 60139
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COM-ED

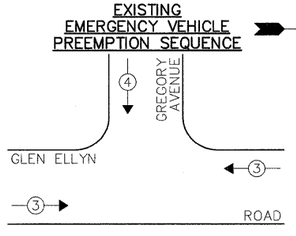
EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

LEGEND:
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

LEGEND:
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

PROPSED PHASE DESIGNATION DIAGRAM

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GLEN ELLYN ROAD AT GREGORY AVENUE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	37
		CONTRACT #: 63625		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION NOTES:

① INSTALL UNINTERRUPTIBLE POWER SUPPLY UNIT.

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

MATCHLINE (SEE SHEET 39)

EXIST. R.O.W.

75'

70'

ROAD

EXIST. R.O.W.

ASPHALT

BRICK

EXISTING INTERCONNECT TO REGENCY DRIVE *(SEE SHEET 50)*

(5'-E(2)-4")

NOTE:
THE EXISTING LOCAL CONTROLLER IS AN ECONOLITE ASC/2M MASTER CONTROLLER IN A TYPE V CABINET.

①

(16'-E-2½")

(127'-E-5")

(5'-E-2½")

(20'-E-3")

EXISTING 16' POST

(51'-E-3")

EXISTING 16' POST

EXISTING 40' COMBINATION MAST ARM

EXIST. R.O.W.

(108'-E-2")

PROPOSED INTERCONNECT TO GREGORY AVENUE *(SEE SHEET 50)*

EXIST. SIDEWALK

EXIST. SIDEWALK

CONC.

CONC.

EXIST. SIDEWALK

EXISTING 56' COMBINATION MAST ARM

GLEN ELLYN

VARIES

11.5'

10'

7'

10.5'

11.5'

11'

VARIES

98+00

97+00

99+00

ASPHALT

100+00

101+00

CONC.

BRICK

(158'-E-4")

EXISTING 50' COMBINATION MAST ARM

(130'-E-4")

50'

47.5'

ROAD

CONC.

EXIST. SIDEWALK

ASPHALT

CONC.

ASPHALT

EXIST. R.O.W.

(10'-E-3")

EXISTING 16' POST

(38'-E-2½")

EXISTING 16' POST

(6'-E-2½")

(22'-E-3")

EXISTING 36' COMBINATION MAST ARM

CONC.

EXIST. SIDEWALK

EXISTING INTERCONNECT TO CREEKSIDE DRIVE *(SEE SHEET 50)*

ARMY TRAIL

ONE WAY

ONE WAY

BRICK

ASPHALT

EXIST. R.O.W.

ASPHALT

CONC.

70'

60'

12'

11.5'

9.5'

11.5'

11'

11'

11'

11.5'

EXIST. R.O.W.

ASPHALT

CONC.

ASPHALT

EXIST. SIDEWALK

EXIST. SIDEWALK

MATCHLINE (SEE SHEET 39)

MATCHLINE (SEE SHEET 39)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GLEN ELLYN ROAD AT ARMY TRAIL ROAD

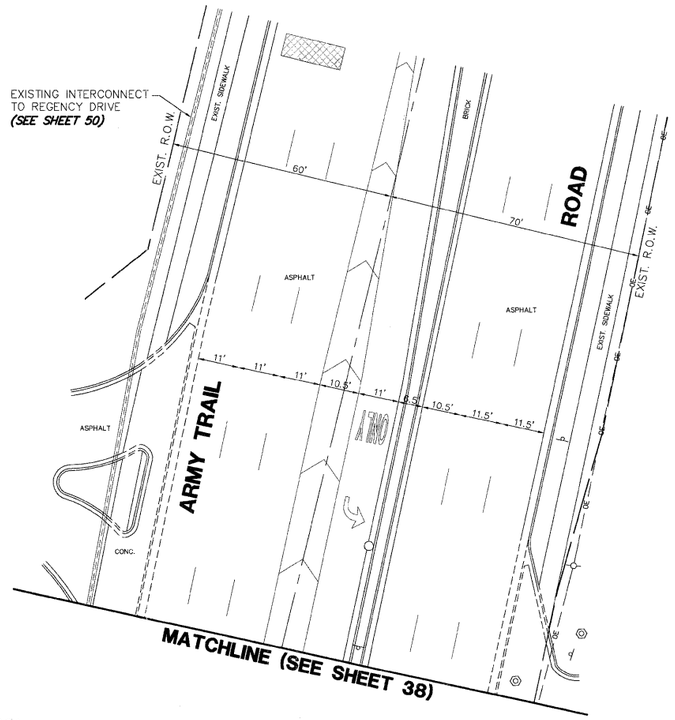
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

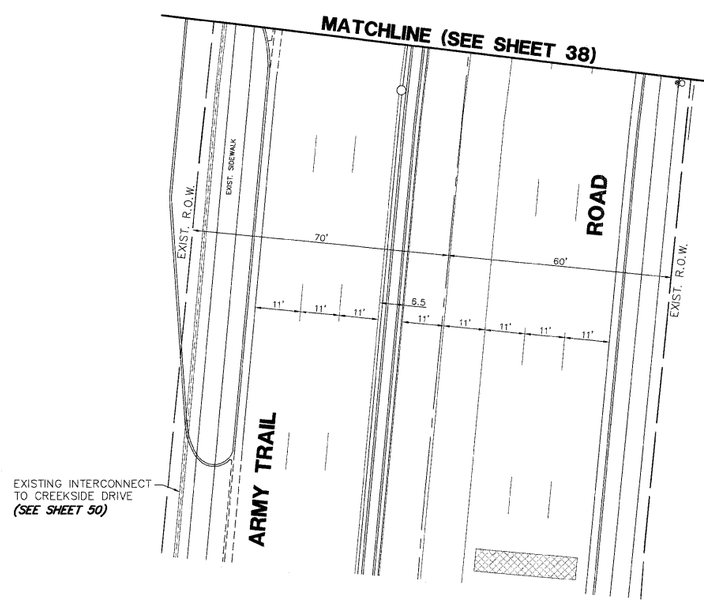
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	38
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		

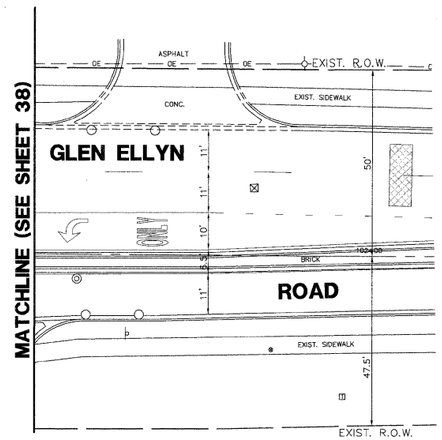
GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.







THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

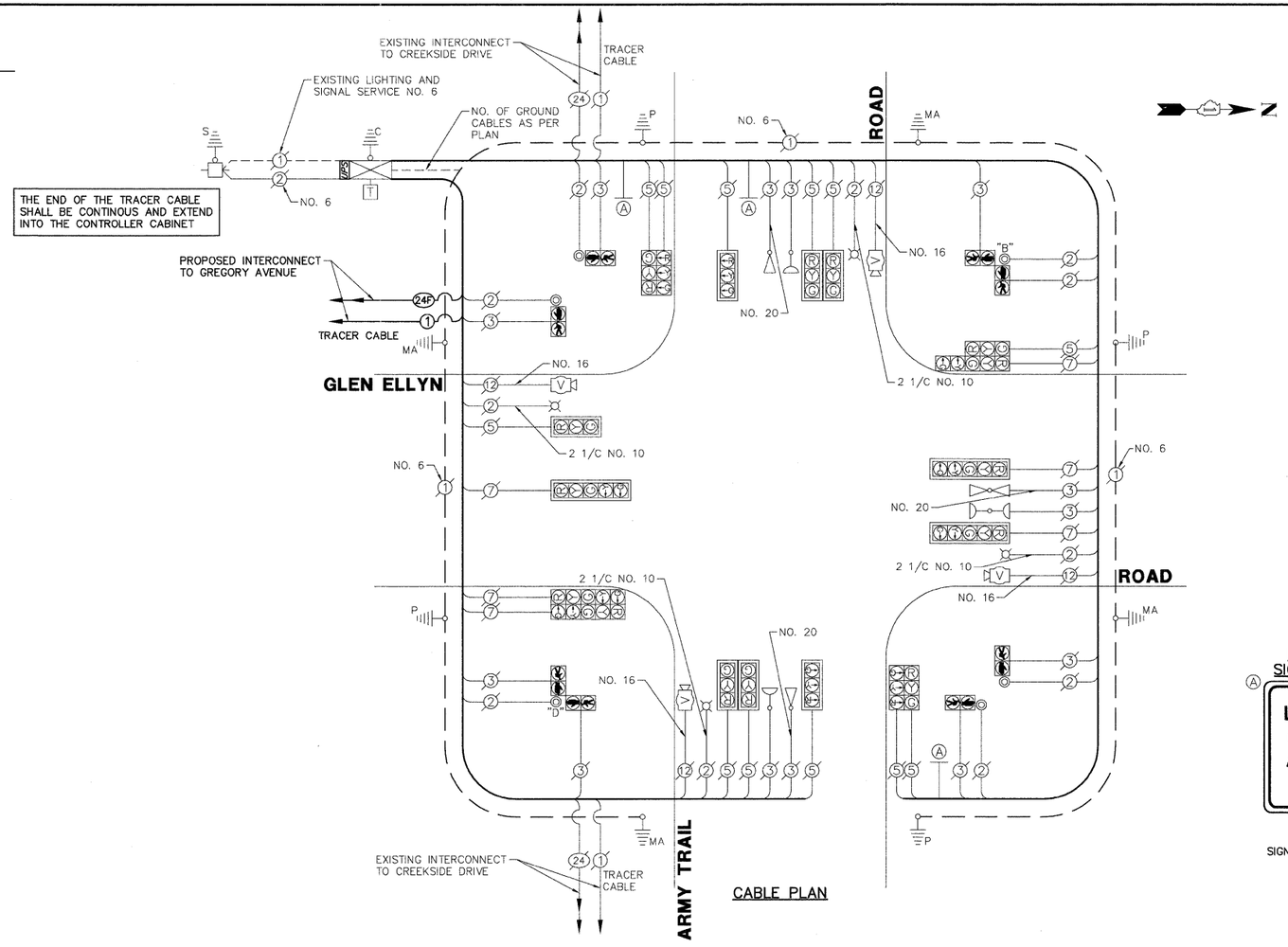
GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN GLEN ELLYN ROAD AT ARMY TRAIL ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			2581	09-00206-08-TL	DuPAGE	53	39
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -					CONTRACT #: 63625		
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

GLEN ELLYN ROAD AT ARMY TRAIL ROAD

NO.	QUANT.	UNIT	
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, STANDARD



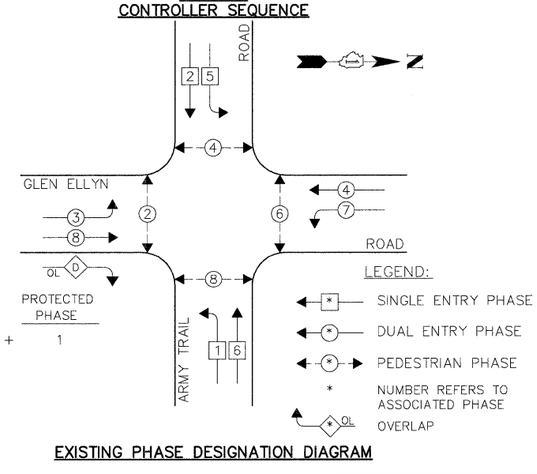
CABLE PLAN

EXISTING SIGN DETAIL

Ⓐ

LEFT ON GREEN ARROW ONLY

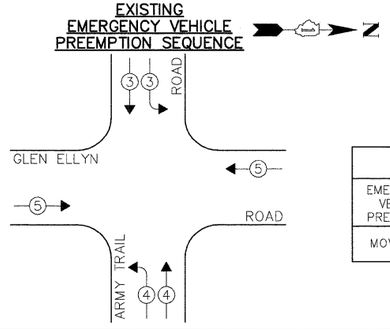
R10-5
(30"x36")
SIGN PANEL TYPE I



EXISTING CONTROLLER SEQUENCE

EXISTING PHASE DESIGNATION DIAGRAM

NOTE:
PUSH BUTTON "B" SHALL PLACE A CALL TO PHASES 4 AND 6
PUSH BUTTON "D" SHALL PLACE A CALL TO PHASES 2 AND 8



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

EXISTING EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	⊥L	⊤⊥	⊥⊤

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	% OPERATION	
SIGNAL (RED)	18	135	17	0.50	153.0
SIGNAL (YELLOW)	18	135	25	0.25	112.5
SIGNAL (GREEN)	18	135	15	0.25	67.5
ARROW	12	135	12	0.10	14.4
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	–	100	1.00	100.0
LUMINAIRE	4	250	–	0.50	500.0
L.E.D. ST. NAME SIGN	–	–	64	0.50	–
VIDEO SYSTEM	1	–	150	1.00	150.0
BATTERY BACKUP	–	–	25	1.00	–
ILLUMINATED SIGN	–	–	25	0.05	–
				TOTAL =	1297.4

ENERGY COSTS – BILLED TO: VILLAGE OF GLENDALE HEIGHTS
(ADDRESS) 300 CIVIL CENTER PLAZA
(ADDRESS) GLENDALE HEIGHTS, IL 60139
ENERGY SUPPLY – CONTACT: MS. DEB RANKIN
PHONE: (630) 691-4379
COMPANY: COM-ED

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

GHA #4281.800

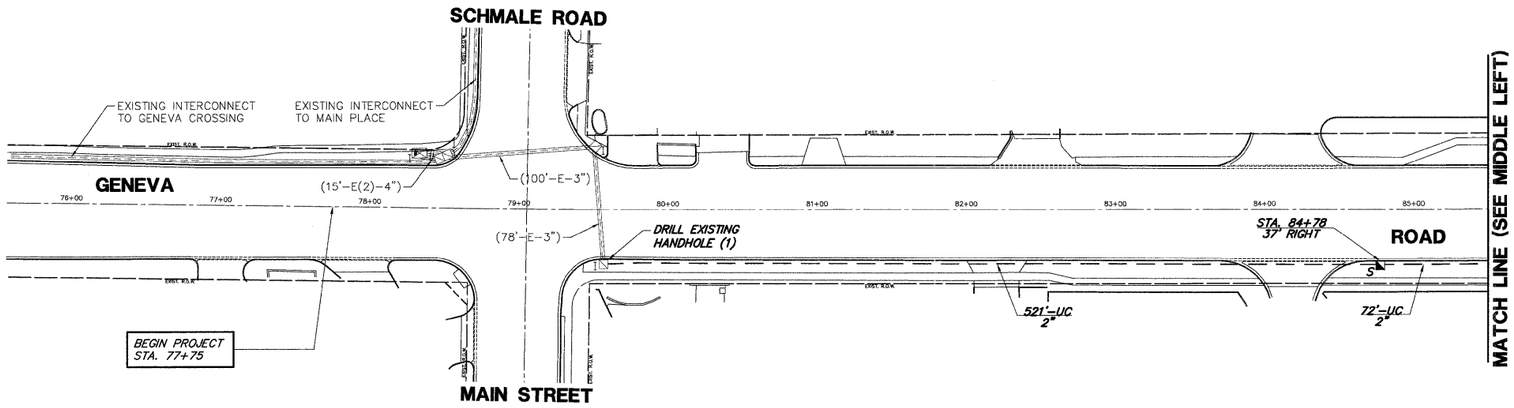
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
4281.800-TR1.dwg		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

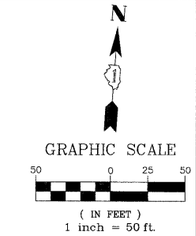
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

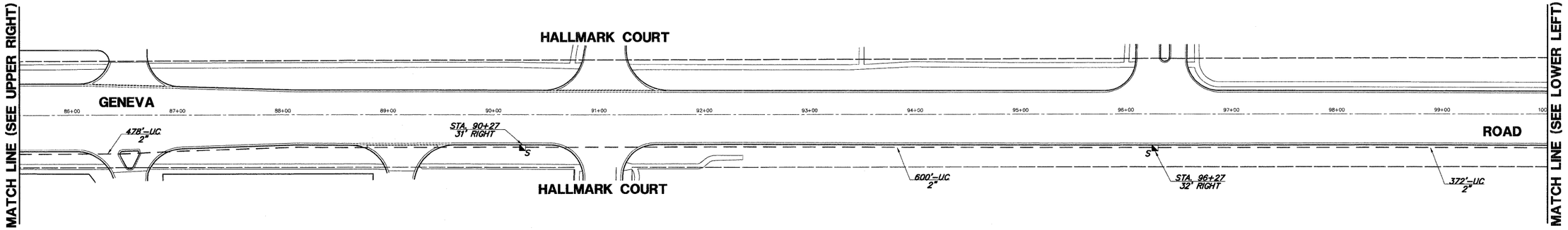
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
GLEN ELLYN ROAD AT ARMY TRAIL ROAD

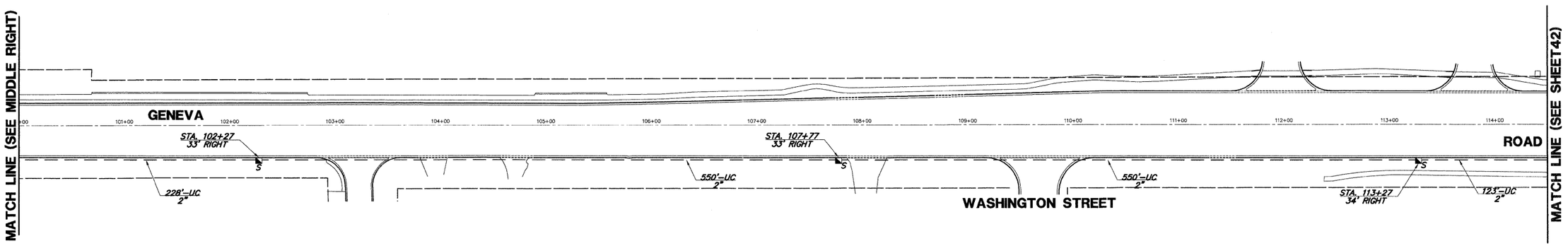
SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	40
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		





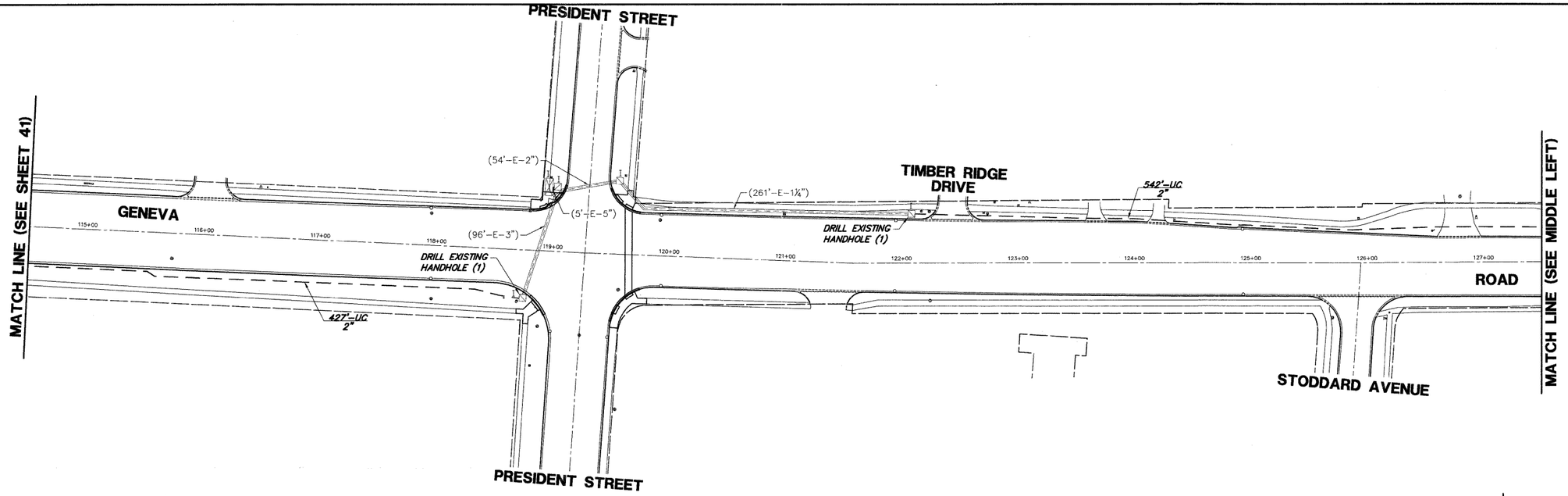


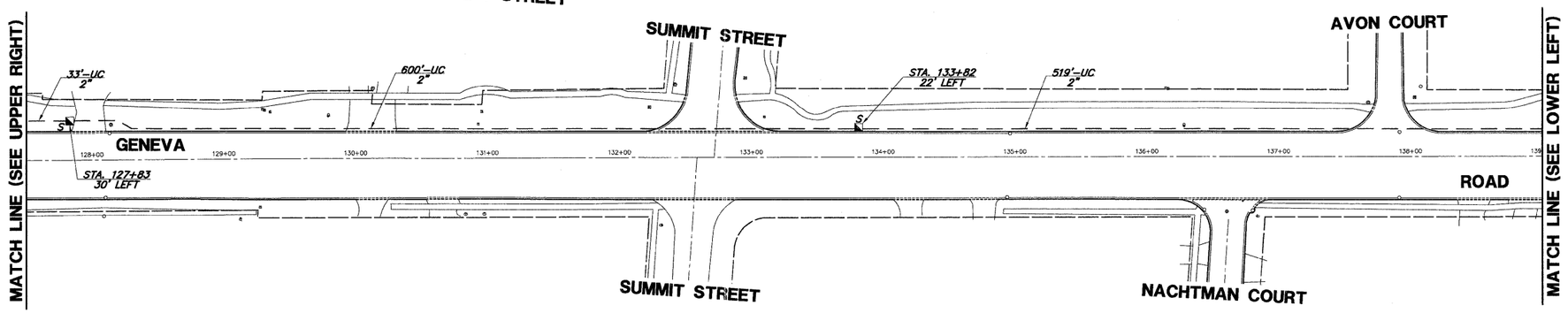


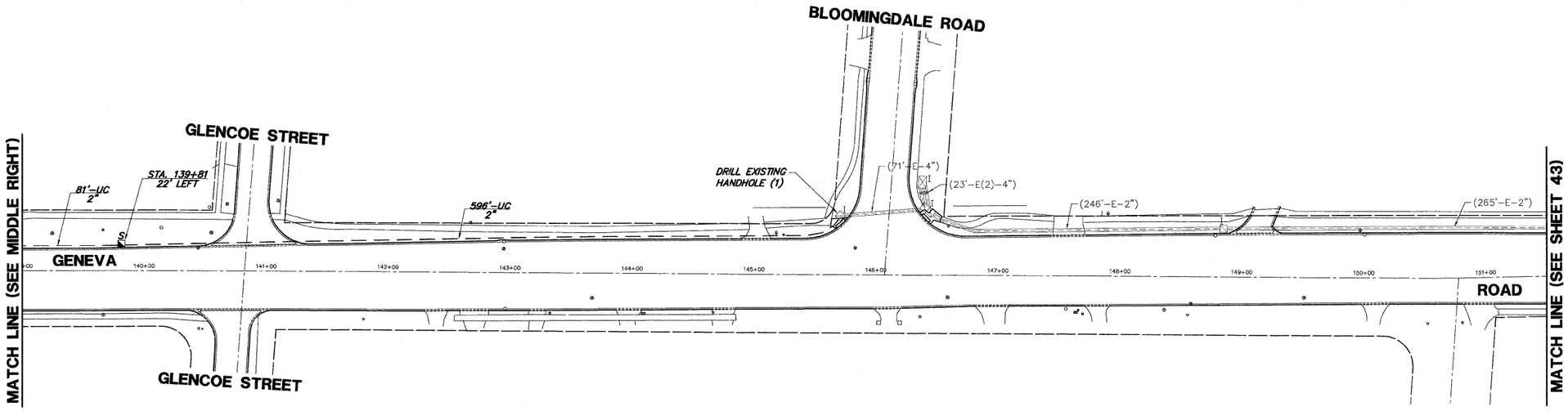
GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERCONNECT PLAN (SHEET 1 OF 5) - GENEVA RD/ST. CHARLES RD FROM SCHMALE RD/MAIN ST TO SWIFT RD**
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	41
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		







N

GRAPHIC SCALE
50 0 25 50
(IN FEET)
1 inch = 50 ft.

GHA #4281.800

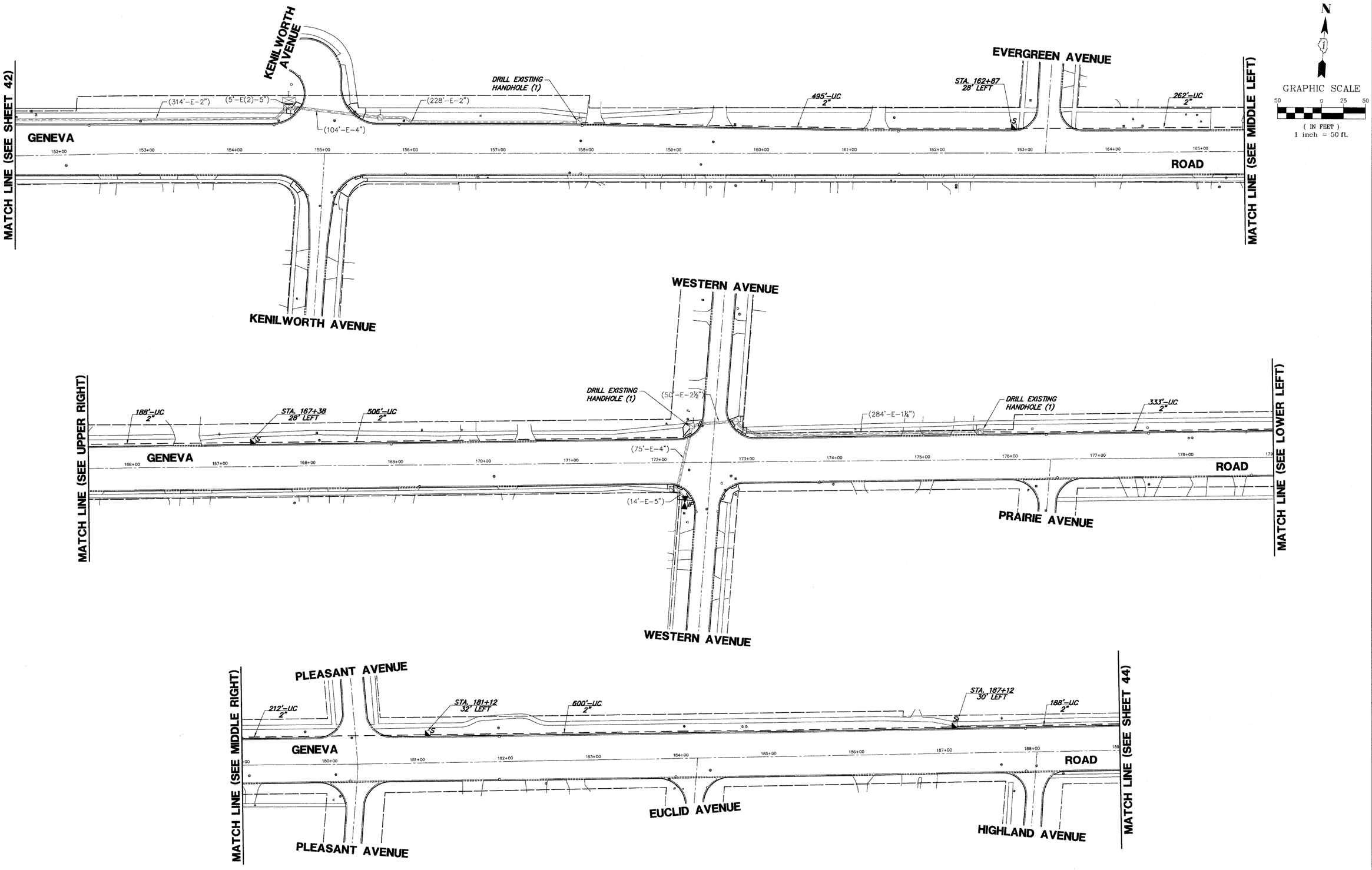
FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN (SHEET 2 OF 5) - GENEVA RD/ST. CHARLES RD FROM SCHMALE RD/MAIN ST TO SWIFT RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	42
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			



GHA #4281.800

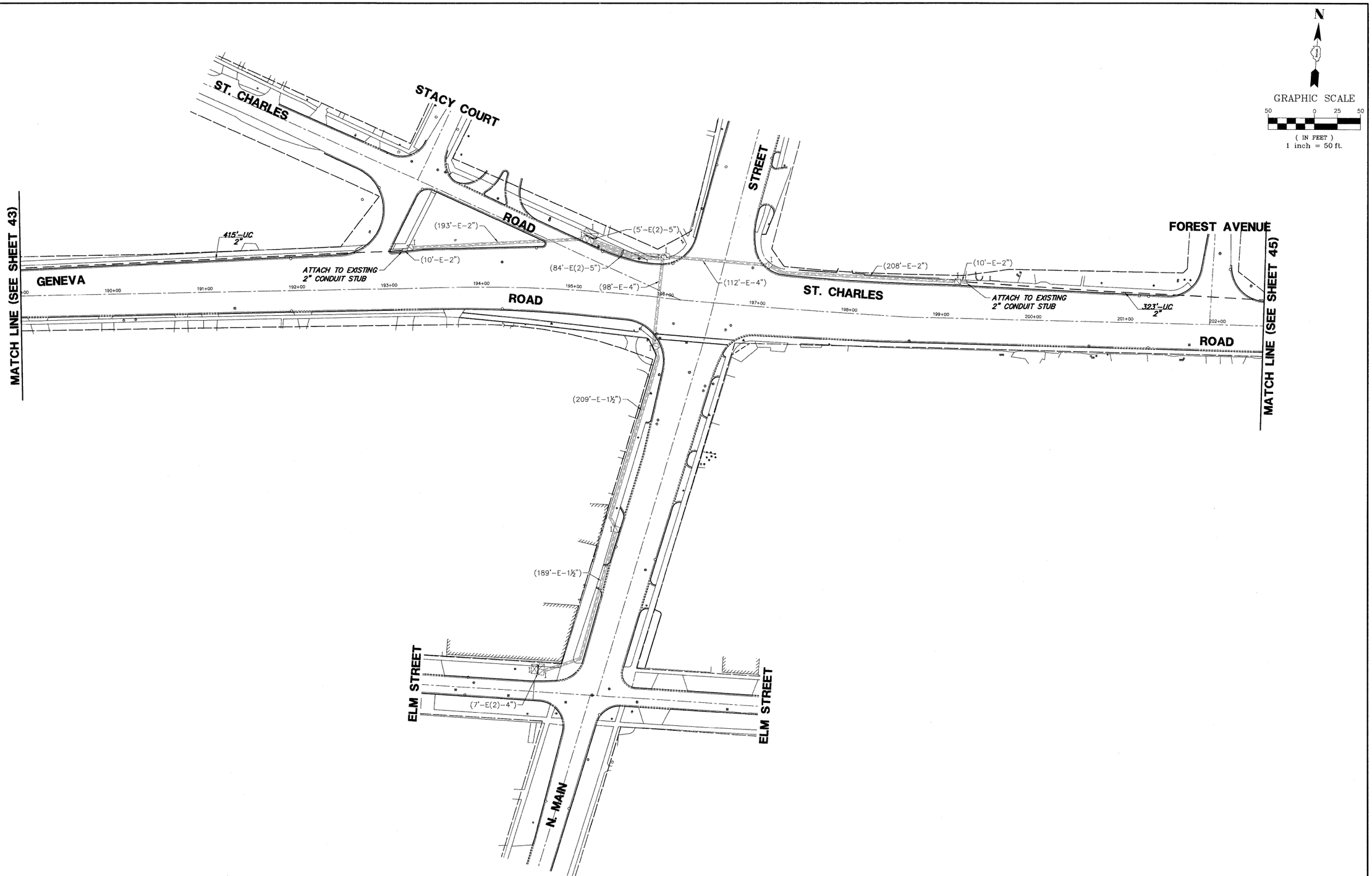
FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN (SHEET 3 OF 5) - GENEVA RD/ST. CHARLES RD FROM SCHMALE RD/MAIN ST TO SWIFT RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	43
		CONTRACT #: 63625		
		ILLINOIS FED. AID PROJECT		



GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

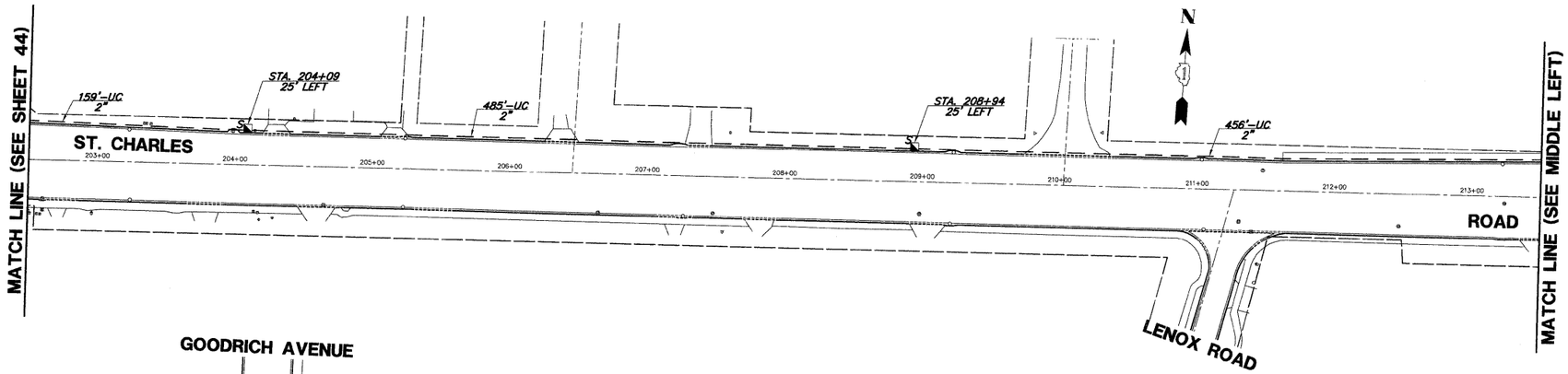
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

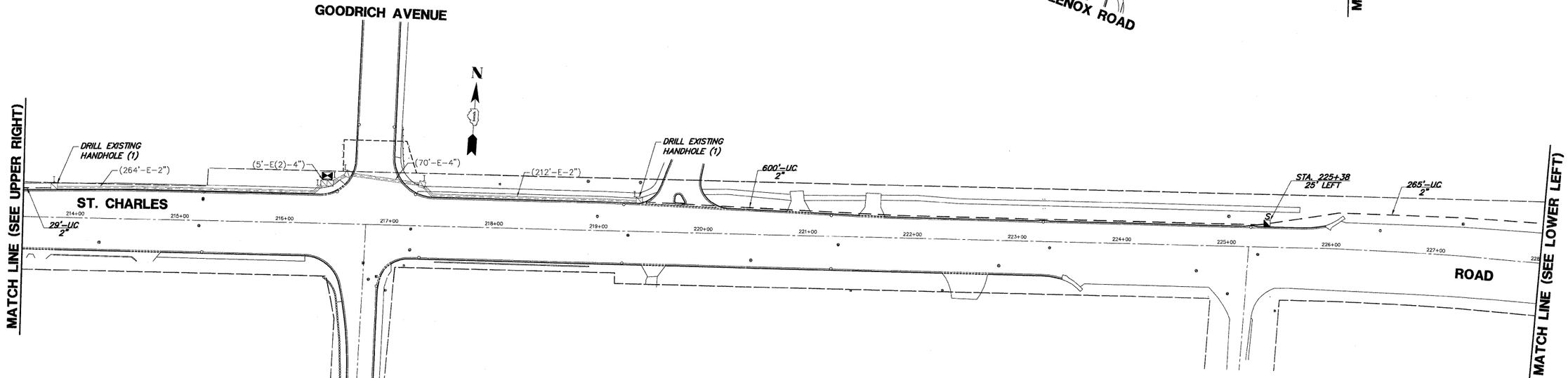
INTERCONNECT PLAN (SHEET 4 OF 5) - GENEVA RD/ST. CHARLES RD FROM SCHMALE RD/MAIN ST TO SWIFT RD

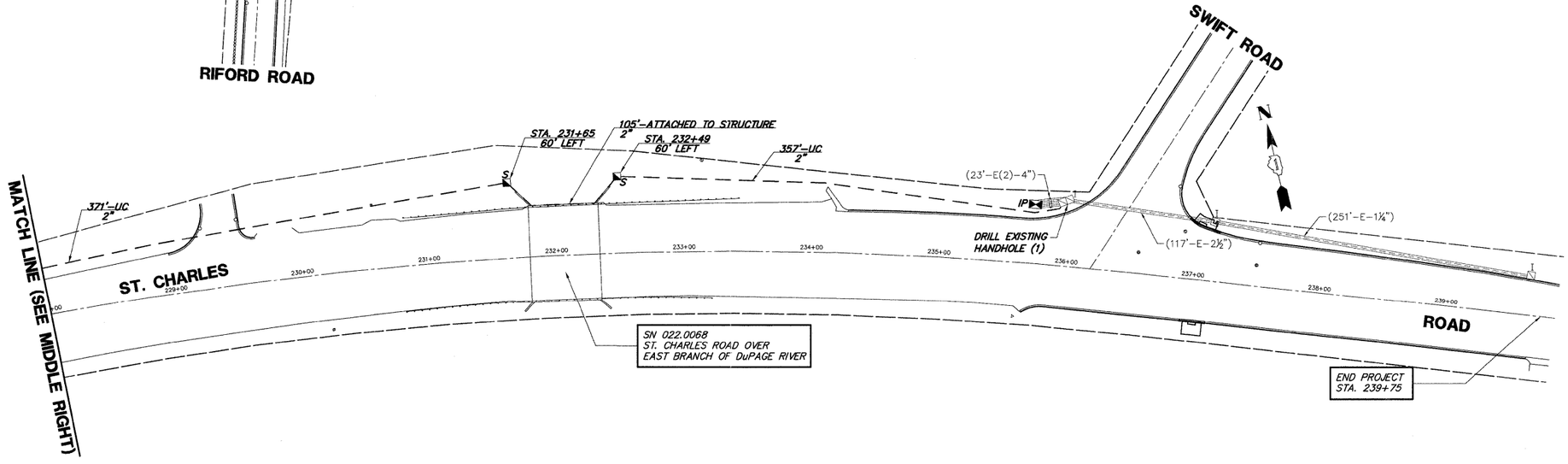
SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	44
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

GRAPHIC SCALE
50 0 25 50
(IN FEET)
1 inch = 50 ft.







GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN (SHEET 5 OF 5) - GENEVA RD/ST. CHARLES RD FROM SCHMALE RD/MAIN ST TO SWIFT RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00206-08-TL	DuPAGE	53	45
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

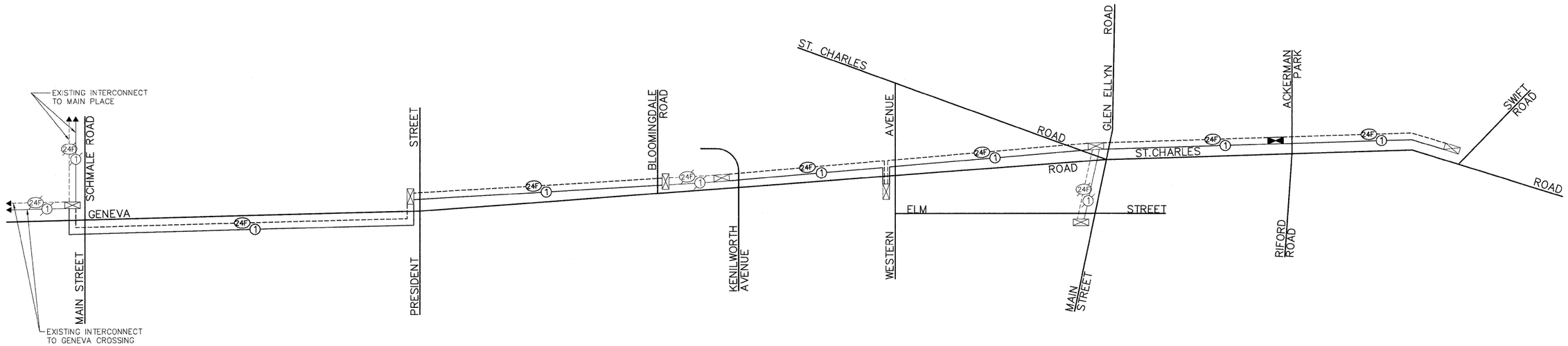
GENEVA ROAD AND ST. CHARLES ROAD INTERCONNECT FROM SCHMALE ROAD/MAIN STREET TO SWIFT ROAD

NO.	QUANT.	UNIT	
1.	12,569	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
2.	105	FOOT	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL
3.	18	EACH	HANDHOLE
4.	15,873	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
5.	10	EACH	DRILL EXISTING HANDHOLE
6.	15,873	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
7.	8	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2

N

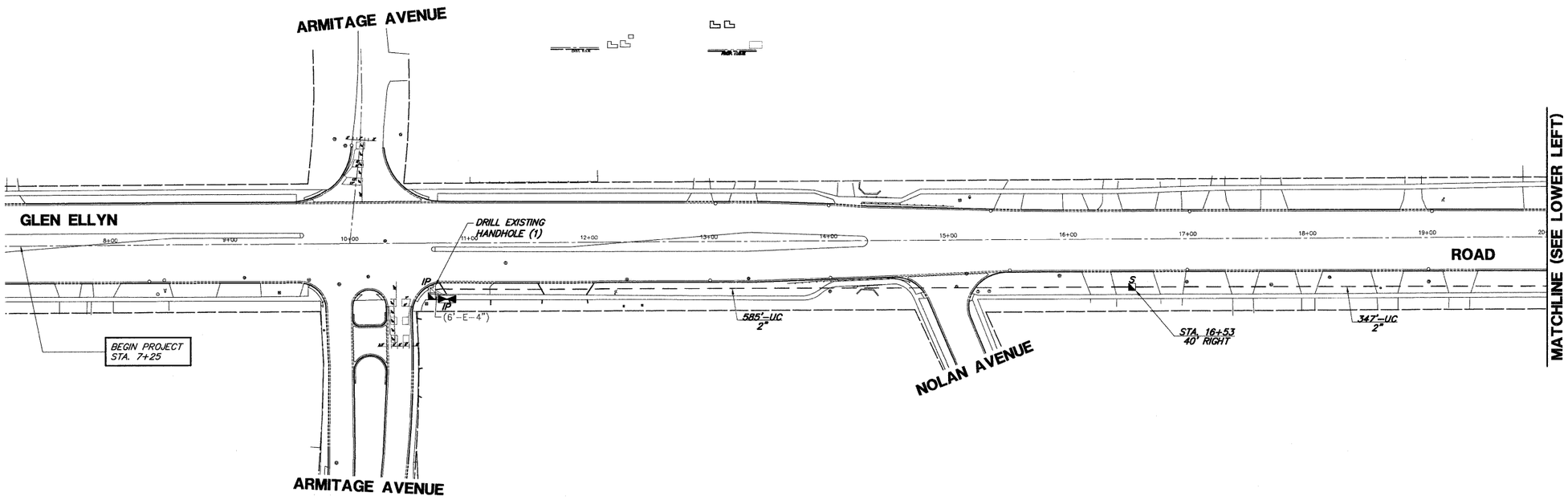
CONSTRUCTION NOTES:

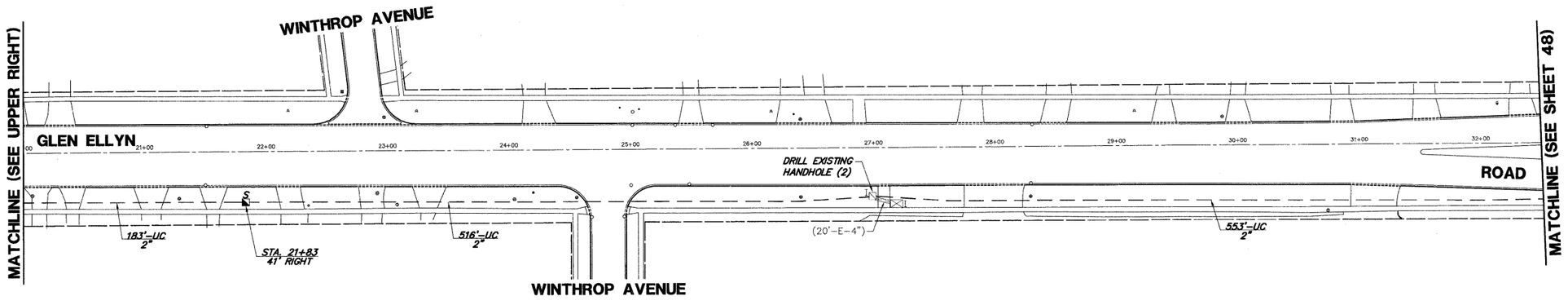
(1) THE FOLLOWING TRAFFIC SIGNALS SHALL BE RE-OPTIMIZED UNDER THIS PAY ITEM:
GENEVA ROAD AT SCHMALE ROAD/MAIN STREET
GENEVA ROAD AT PRESIDENT STREET
GENEVA ROAD AT BLOOMINGDALE ROAD
GENEVA ROAD AT KENILWORTH AVENUE
GENEVA ROAD AT WESTERN AVENUE
GENEVA ROAD/ST. CHARLES ROAD AT MAIN STREET/GLEN ELLYN ROAD
ST. CHARLES ROAD AT RIFORD ROAD/ACKERMEN PARK
ST. CHARLES ROAD AT SWIFT ROAD



GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERCONNECT SCHEMATIC GENEVA RD - FROM PRESIDENT ST TO SWIFT RD**				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -						1397	09-00206-08-TL	DuPAGE	53	46
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -								CONTRACT #:	63625	
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: N.A.	SHEET NO. OF SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT			





GRAPHIC SCALE
50 0 25 50
(IN FEET)
1 inch = 50 ft.

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN (SHEET 1 OF 4) - GLEN ELLYN RD FROM ARMITAGE AVENUE TO ARMY TRAIL ROAD

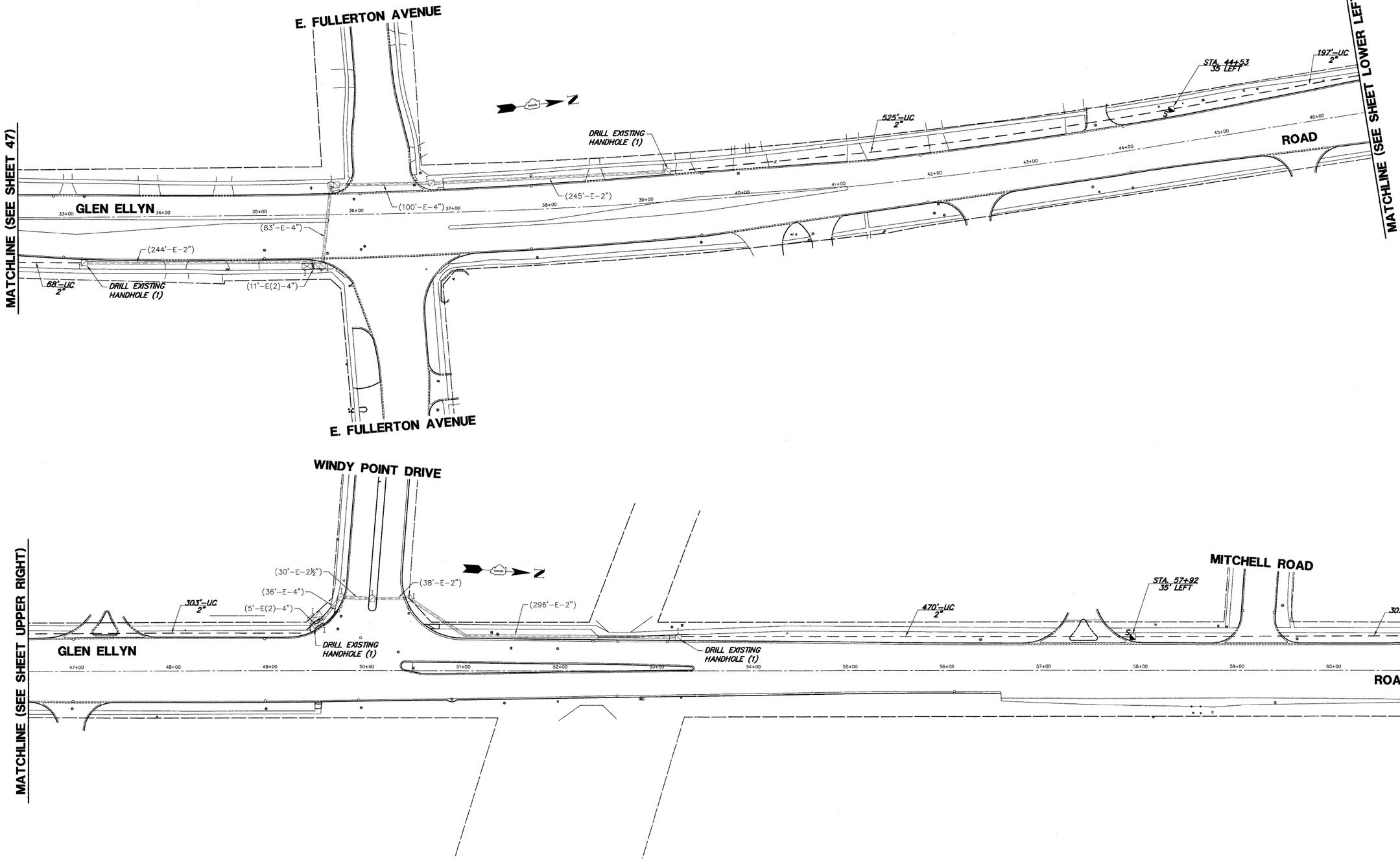
SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	47
		CONTRACT #:	63625	
	ILLINOIS FED. AID PROJECT			

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.



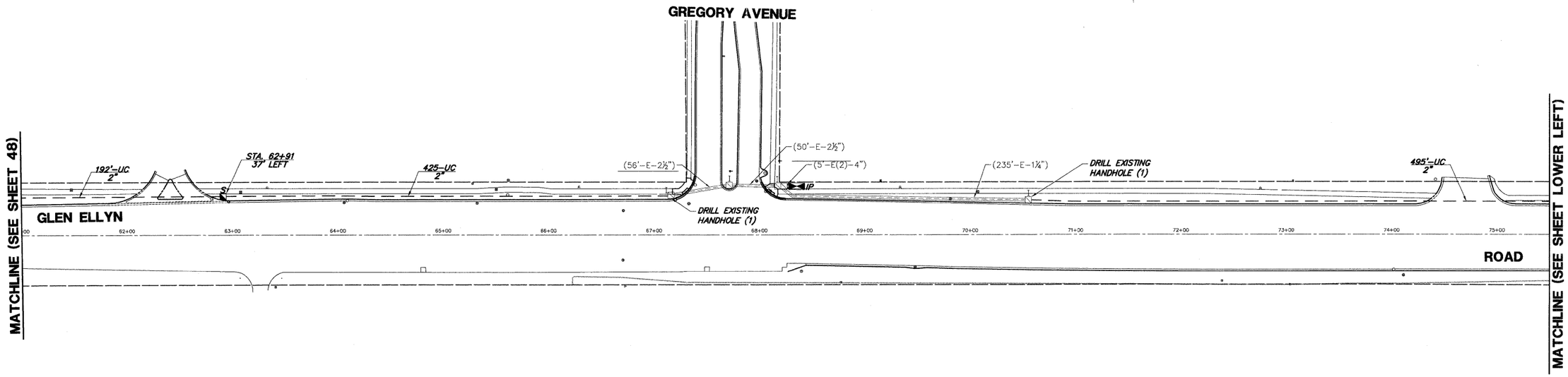
GHA #4281.800

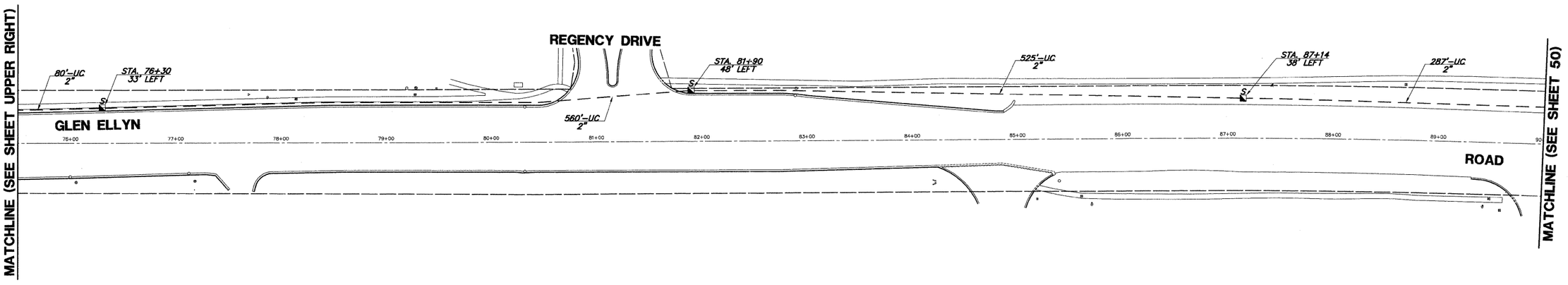
FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERCONNECT PLAN (SHEET 2 OF 4) - GLEN ELLYN RD FROM ARMITAGE AVENUE TO ARMY TRAIL ROAD**			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -					2581	09-00206-08-TL	DuPAGE	53	48
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -							CONTRACT #:	63625	
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT	

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.





GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN (SHEET 3 OF 4) - GLEN ELLYN RD FROM ARMITAGE AVENUE TO ARMY TRAIL ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581	09-00206-08-TL	DuPAGE	53	49
		CONTRACT #:	63625	
		ILLINOIS FED. AID PROJECT		

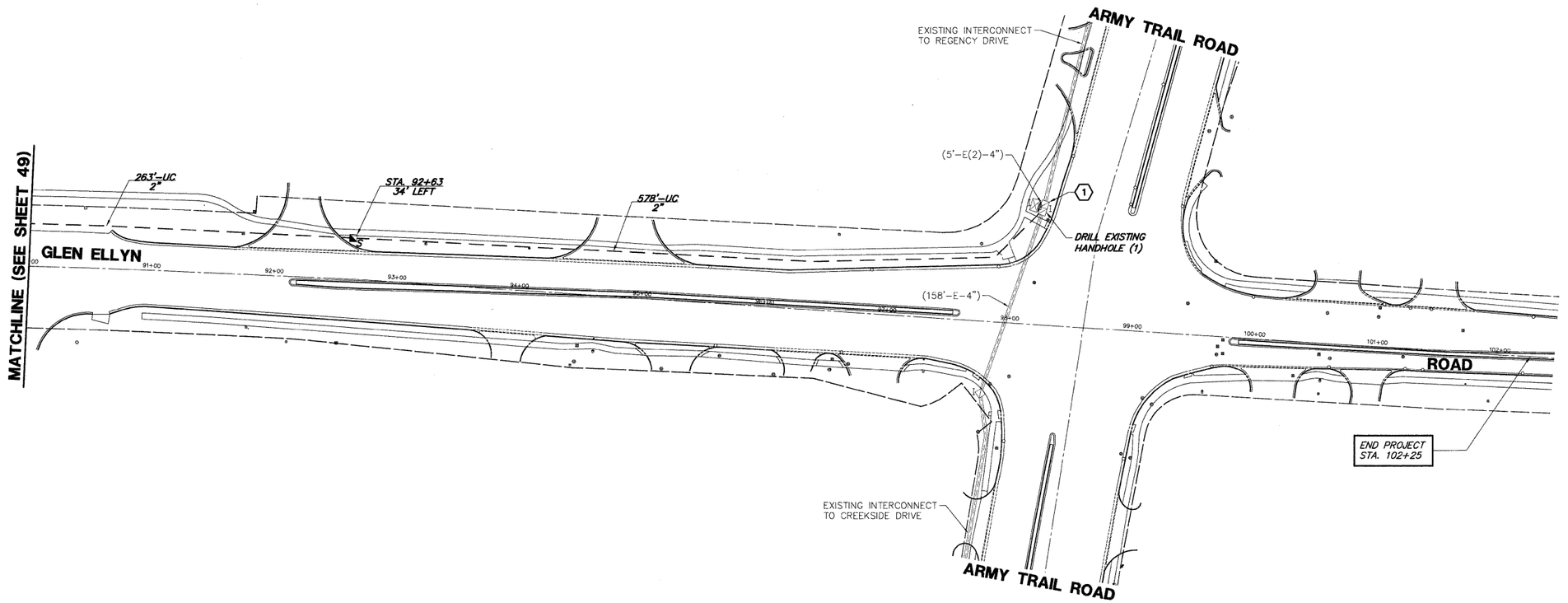
CONSTRUCTION NOTES:

(1) THE CONTRACTOR SHALL DRILL THE EXISTING DOUBLE HANDHOLE, INSTALL THE 2" DIA., GALVANIZED STEEL CONDUIT, PULL THE NEW FIBER OPTIC AND TRACER CABLES INTO THE EXISTING CONTROLLER CABINET AND NOT TERMINATE THE NEW FIBER OPTIC CABLE, BUT COIL 10 FEET OF ADDITIONAL SLACK ON THE CABINET FLOOR.

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.



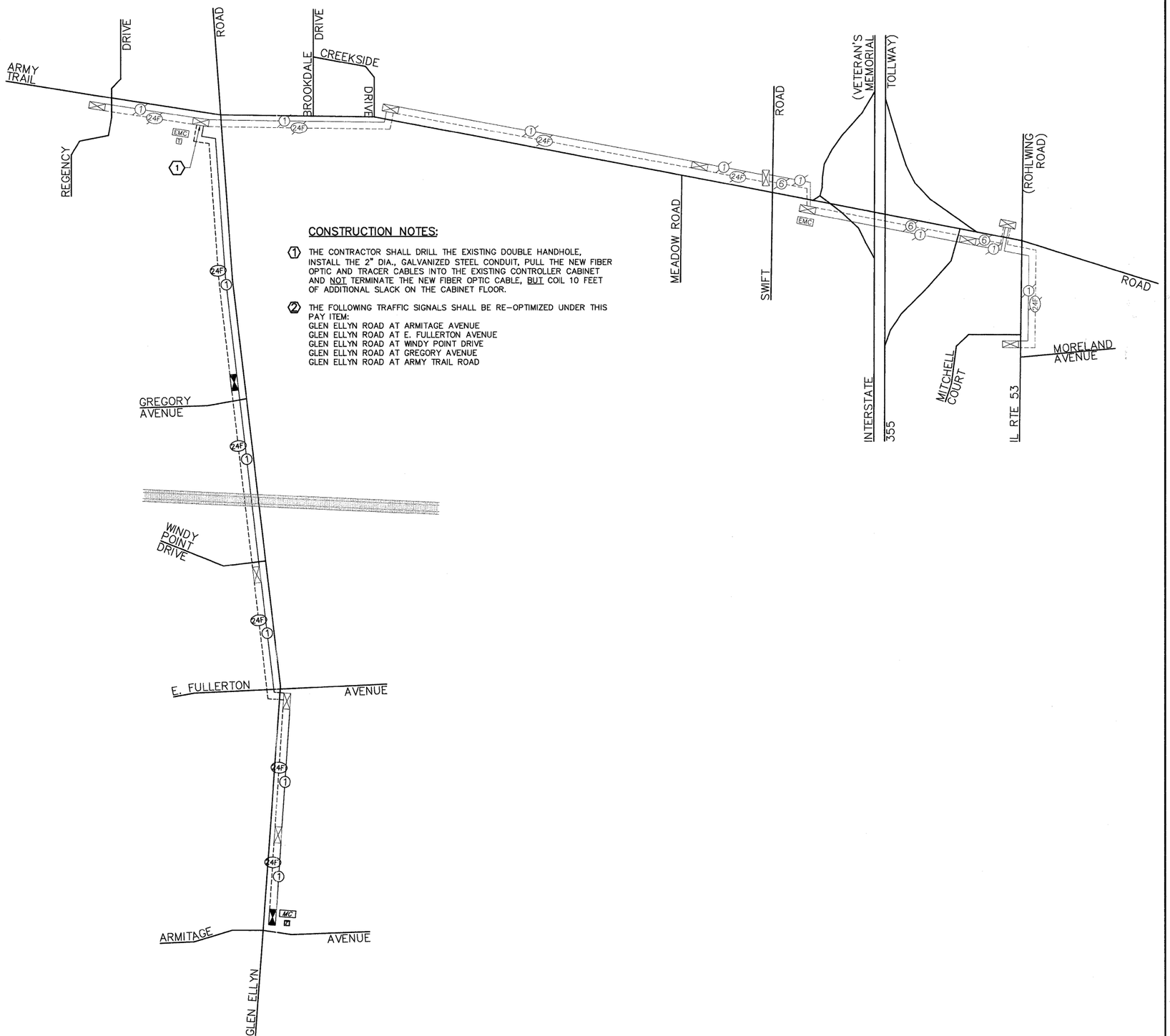
GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERCONNECT PLAN (SHEET 4 OF 4) - GLEN ELLYN RD FROM ARMITAGE AVENUE TO ARMY TRAIL ROAD**			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - ZCW	REVISED -					2581	09-00206-08-TL	DuPAGE	53 / 50
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -							CONTRACT #:	63625
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

SCHEDULE OF QUANTITIES

GLEN ELLYN ROAD INTERCONNECT FROM ARMITAGE AVENUE TO ARMY TRAIL ROAD

NO.	QUANT.	UNIT	
1.	7,439	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
2.	9	EACH	HANDHOLE
3.	8,195	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
4.	11	EACH	DRILL EXISTING HANDHOLE
5.	8,195	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
6.	5	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2



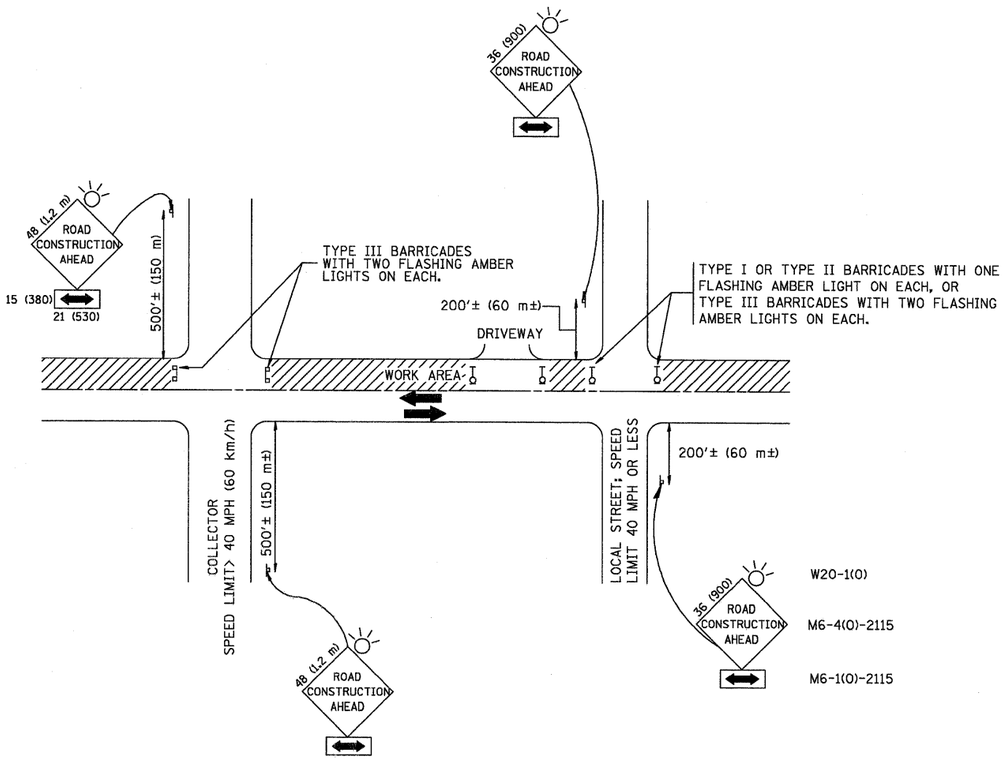
CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL DRILL THE EXISTING DOUBLE HANDHOLE, INSTALL THE 2" DIA., GALVANIZED STEEL CONDUIT, PULL THE NEW FIBER OPTIC AND TRACER CABLES INTO THE EXISTING CONTROLLER CABINET AND NOT TERMINATE THE NEW FIBER OPTIC CABLE, BUT COIL 10 FEET OF ADDITIONAL SLACK ON THE CABINET FLOOR.

2. THE FOLLOWING TRAFFIC SIGNALS SHALL BE RE-OPTIMIZED UNDER THIS PAY ITEM:
   GLEN ELLYN ROAD AT ARMITAGE AVENUE
   GLEN ELLYN ROAD AT E. FULLERTON AVENUE
   GLEN ELLYN ROAD AT WINDY POINT DRIVE
   GLEN ELLYN ROAD AT GREGORY AVENUE
   GLEN ELLYN ROAD AT ARMY TRAIL ROAD

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERCONNECT SCHEMATIC** GLEN ELLYN RD - FROM ARMITAGE AVE TO ARMY TRAIL RD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			2581	09-00206-08-TL	DuPAGE	53	51
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -					CONTRACT #: 63625		
	PLOT DATE = 12/16/2011	DATE - 12/16/2011	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



NOTES:

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

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

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

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

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

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

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

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

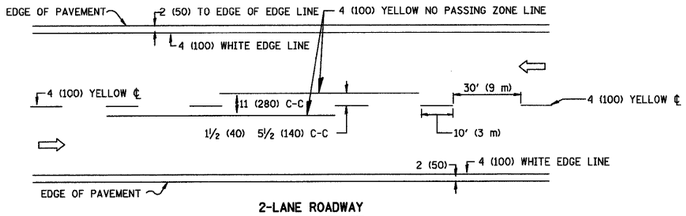
D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

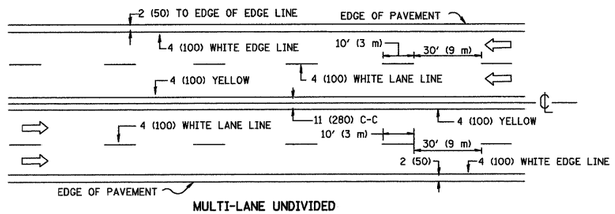
GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = GEORGE WHITTEN	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
		DRAWN -	REVISED - A. HOUSEH 03-06-96		
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED - A. HOUSEH 10-15-96		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 12/16/2011	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00		

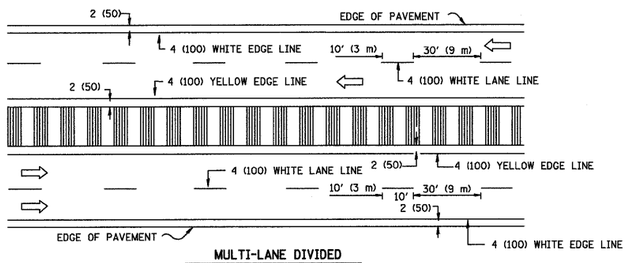
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2581 & 1397	09-00206-08-TL TC-10	DuPAGE	53	52
		CONTRACT #: 63625		
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT				



2-LANE ROADWAY



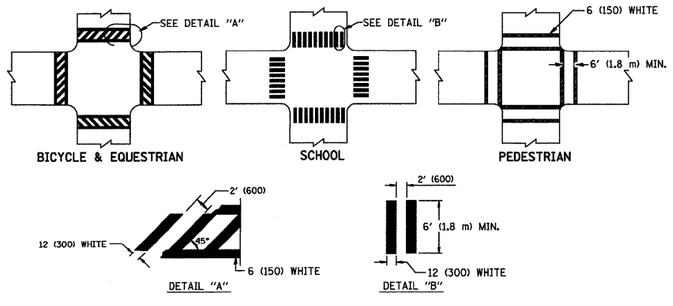
MULTI-LANE UNDIVIDED



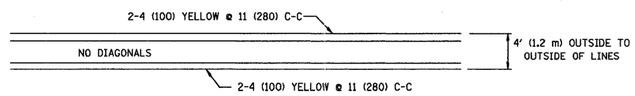
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

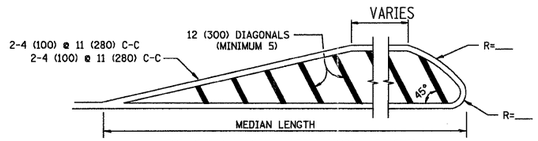
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



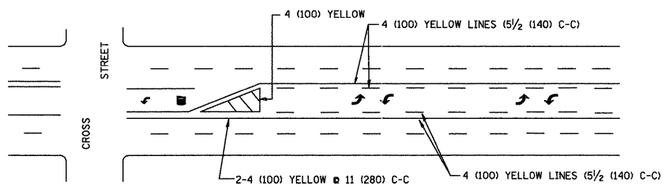
4' (1.2 m) WIDE MEDIANS ONLY



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

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

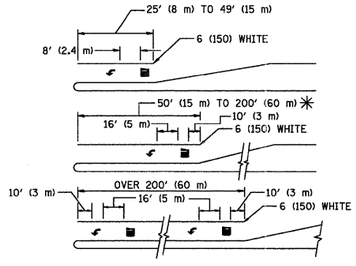
MEDIANS OVER 4' (1.2 m) WIDE



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

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

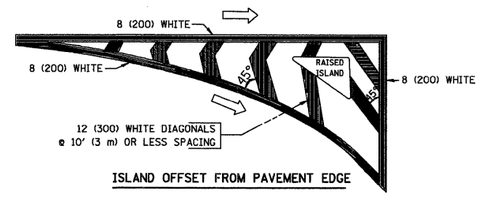


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

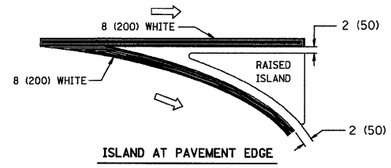
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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

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.

TYPICAL PAVEMENT MARKINGS

GHA #4281.800

FILE NAME = 4281.800-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - C. JUCIUS 09-09-09					2581 & 1397	09-00206-08-TL / TC-13	DuPAGE	53	53
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.			CONTRACT #: 63625		
	PLOT DATE = 12/16/2011	DATE - 03-19-90	REVISED -					FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		