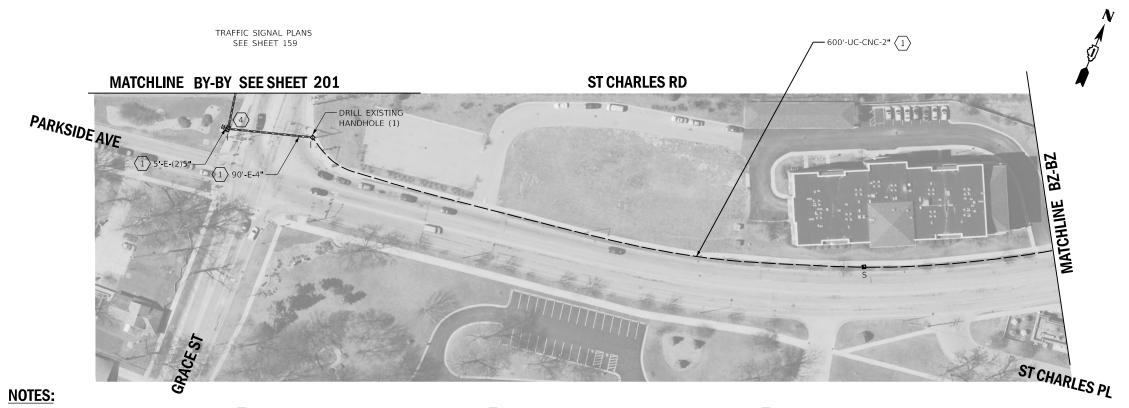


DESIGNED - DW REVISED SECTION PROPOSED INTERCONNECT PLAN - AREA 4 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DRAWN - RG REVISED 19-DCCSS-03-TL DUPAGE 293 201 **LOCATION K - ST CHARLES RD** CHECKED - ZH REVISED CONTRACT NO. 61H96 REVISED SCALE: 1"=50' SHEET 40 OF 44 SHEETS STA. PLOT DATE = 6/13/2022 DATE

SEE SHEET 159



- THE CONTRACTOR SHALL INSTALL PROPOSED FIBER 2 EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (<2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT. CABINET AT THIS INTERSECTION. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.

  ST CHARLES RD
- 4 THE CONTRACTOR SHALL INSTALL PROPOSED FIBER OPTIC SPLICE CLOSURE, WATERTIGHT IN THE EXISTING HANDHOLE.



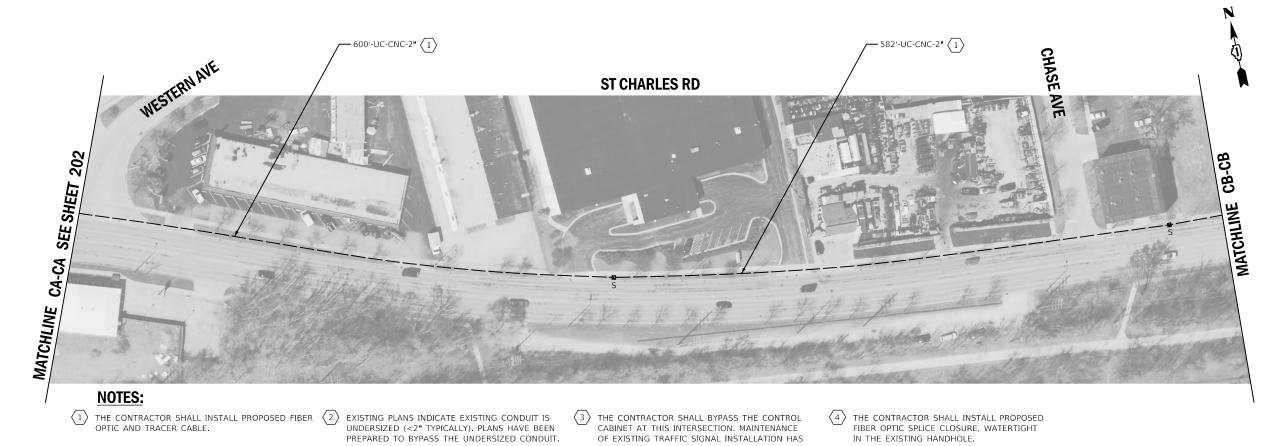
430	D	T	7	ŀ
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USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

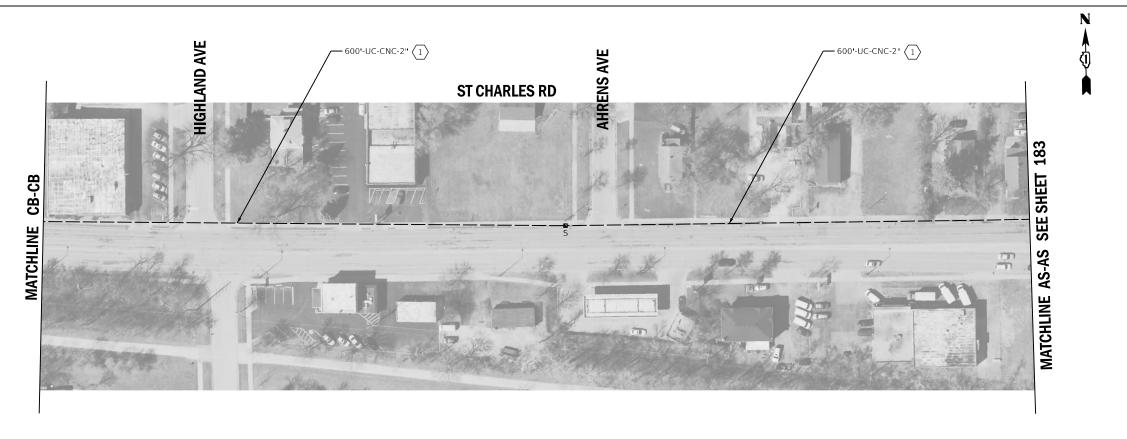
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50"

PROPOSED INTERCONNECT PLAN - AREA 4 LOCATION K - ST CHARLES RD			F.A. RTE	SECT	ΠΟN		COUNTY	TOTAL SHEETS	SHEET NO.			
			VAR.	19-DCCS	S-03-TL		DUPAGE	293	202			
	LOCATION N - 31 CHARLES ND								CONTRACT	NO. 6	1H96	
	SHEET 41	OF 44	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



- THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.
- 4 THE CONTRACTOR SHALL INSTALL PROPOSED FIBER OPTIC SPLICE CLOSURE, WATERTIGHT IN THE EXISTING HANDHOLE.



		DI	
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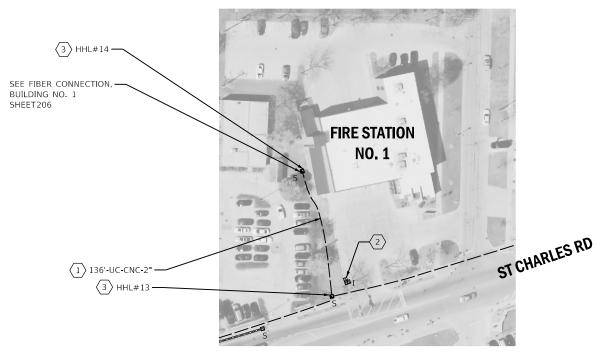
USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	PROPOSE	D INTER	CONNEC	T PLAN -	AREA 4	I	F		
LOCATION K - ST CHARLES RD									
	LO	CAHON	(-01011	AINELO IN	<u> </u>	[			
SCALE: 1"=50"	SHEET 42	OF 44	SHEETS	STA.	TO STA.		_		

SECTION 19-DCCSS-03-TL DUPAGE 293 203 CONTRACT NO. 61H96





LOMBARD FIRE STATION NO. 1

### **NOTES:**

- $\fbox{1}$  THE CONTRACTOR SHALL INSTALL PROPOSED FIBER OPTIC AND TRACER CABLE.
- THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION.
- 3 VILLAGE OF LOMABRD COMMUNICATION HANDHOLE (HHL#\_), THE COVER OF THE HANDHOLE FRAME SHALL BE LABELED "LOMBARD COMMS".

SCALE:

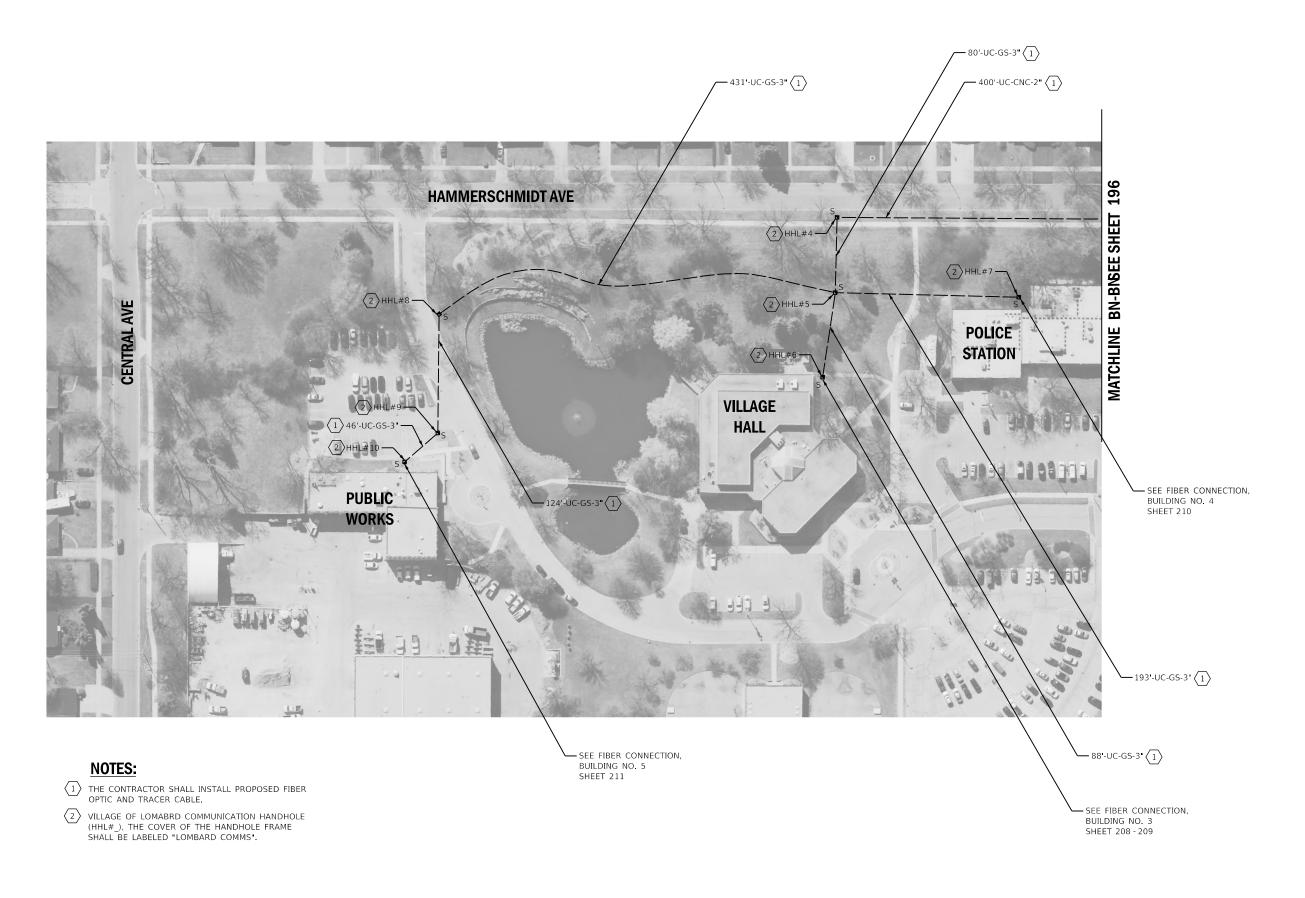


USER NAME = dwiktorzak	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/7/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LOCATION K - LOMBARD FIRE STATION NO. 1	VAR.	19-DCCSS-04-TL	DUPAGE	293	204
LOCATION IX - LONIDARD FIRE STATION INC. 1			CONTRACT	NO. 6	1H96
SHEET 43 OF 44 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		



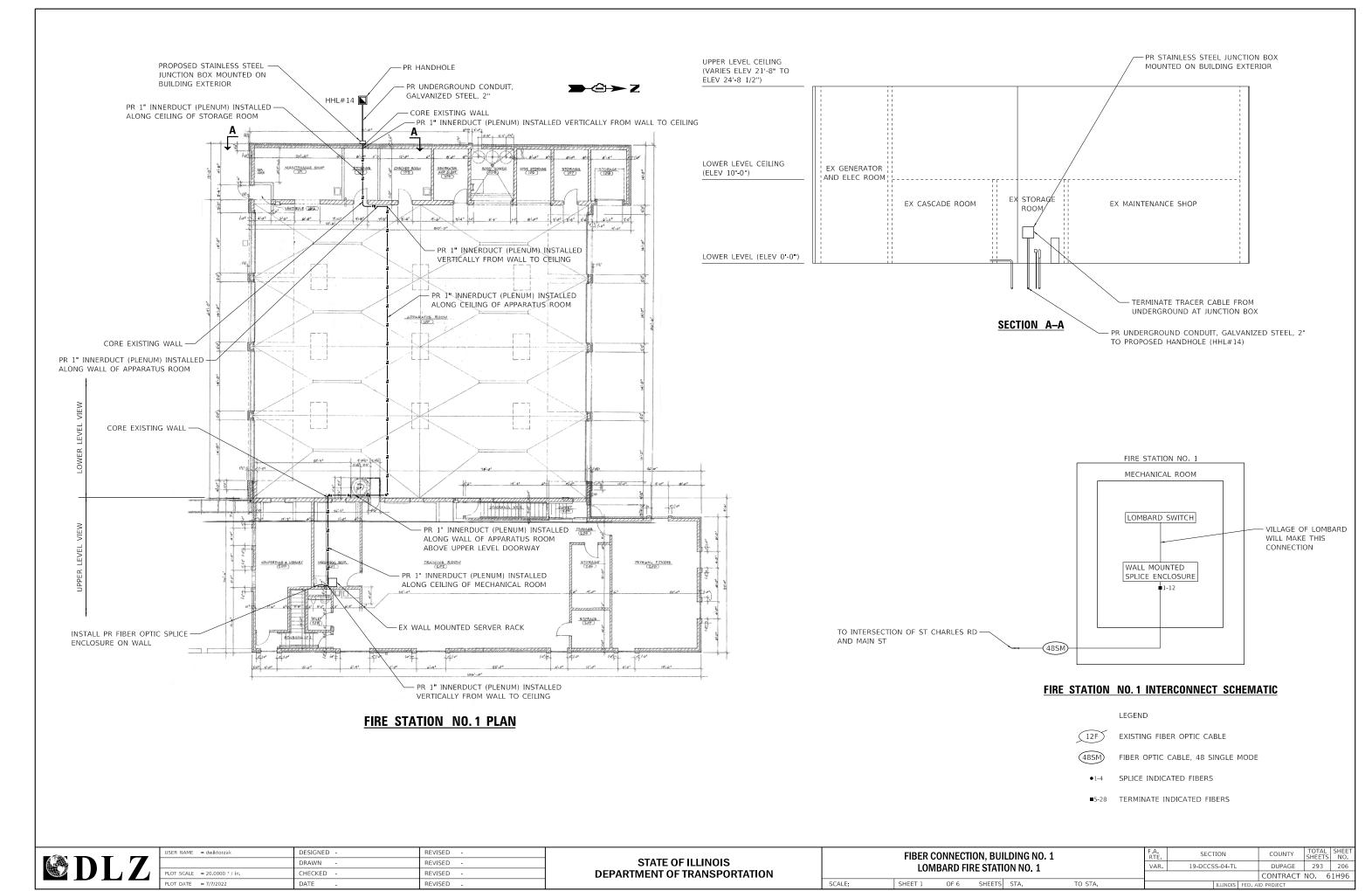


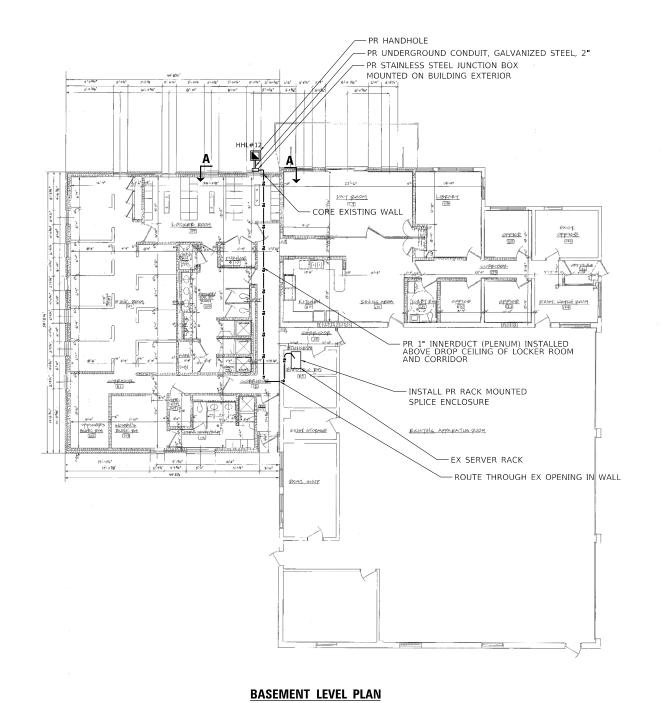
			D	L	Z
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USER NAME = dwiktorzak	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/7/2022	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

								F.A. RTE	
LOCATION L - LOMBARD MUNICIPAL COMPLEX							VAR.	19-0	
_ •	LUCATION L - LUMBARD MUNICIPAL CUMPLEX								
	SHEET	44	OF	44	SHEETS	STA.	TO STA.		



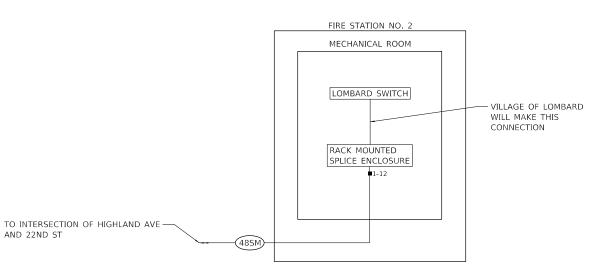


PR STAINLESS STEEL JUNCTION BOX MOUNTED ON BUILDING EXTERIOR

LOWER LEVEL (ELEV 0'-0")

EXISTING GROUND

PR UNDERGROUND AT JUNCTION BOX UNDERGROUND CONDUIT, GALVANIZED STEEL, 2"
TO PROPOSED HANDHOLE (HHL#12)



### FIRE STATION NO. 2 INTERCONNECT SCHEMATIC

LEGEND

12F EXISTING FIBER OPTIC CABLE

48SM) FIBER OPTIC CABLE, 48 SINGLE MODE

•1-4 SPLICE INDICATED FIBERS

■5-28 TERMINATE INDICATED FIBERS

|--|

USER NAME = dwiktorzak	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/7/2022	DATE -	REVISED -

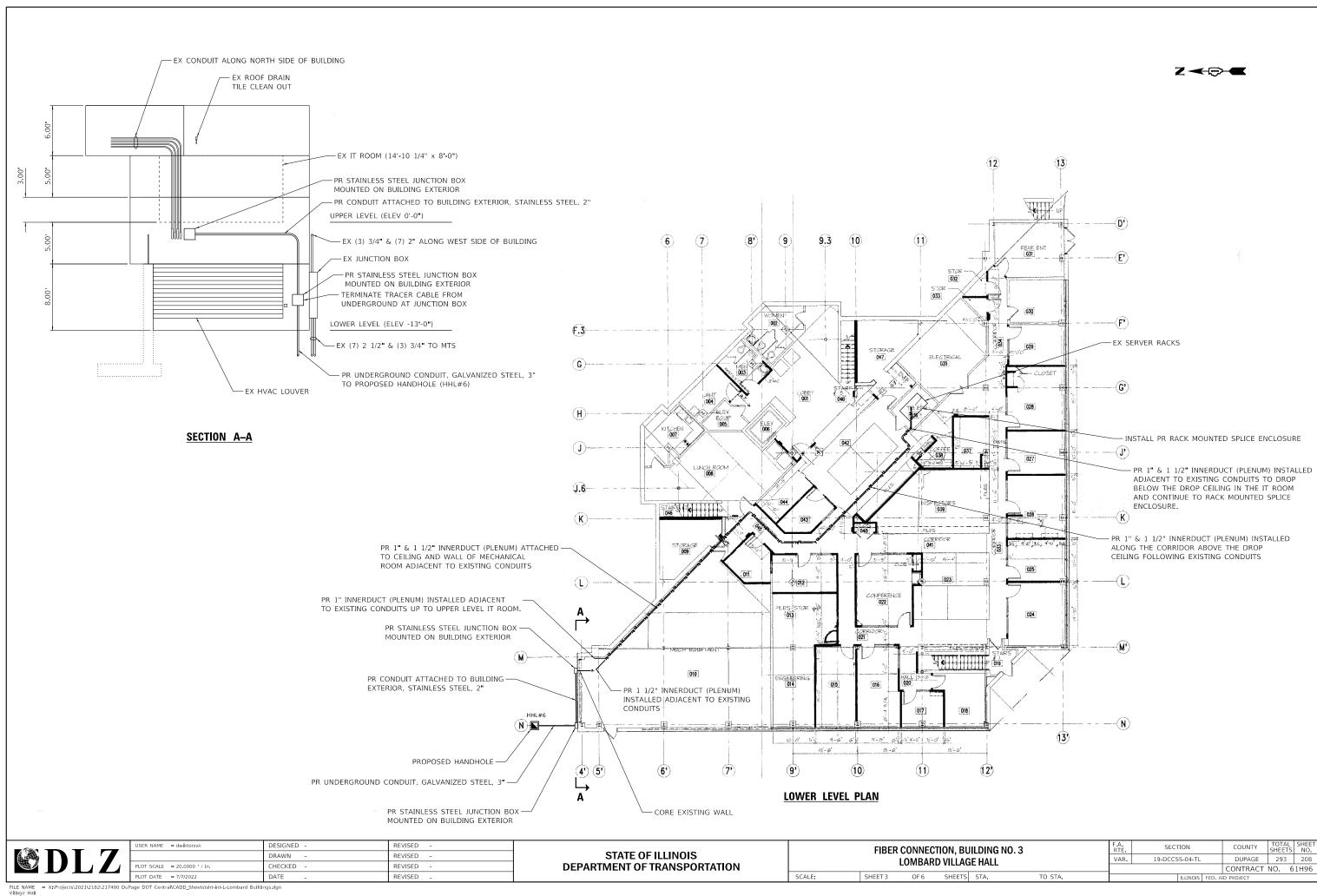
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

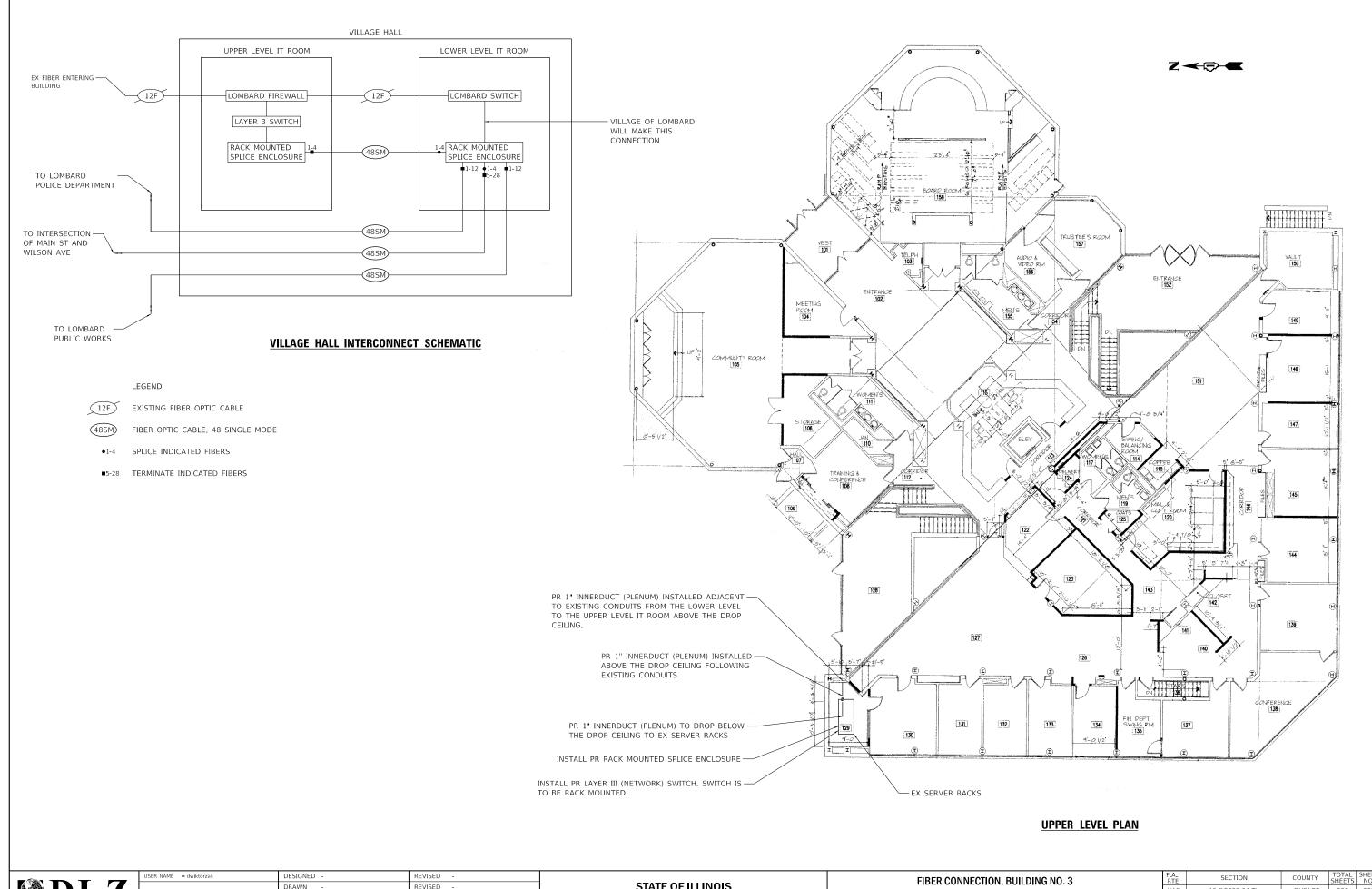
SCALE:

FIBER CONNECTION, BUILDING NO. 2						SECT	ΓΙΟΝ	
				VAR.	19-DCCS	S-04-TL		
Edindard Fire Station No. 2								
SHEET 2	OF 6	SHEETS	STA.	TO STA.			ILLINOIS	

COUNTY

DUPAGE 293 207





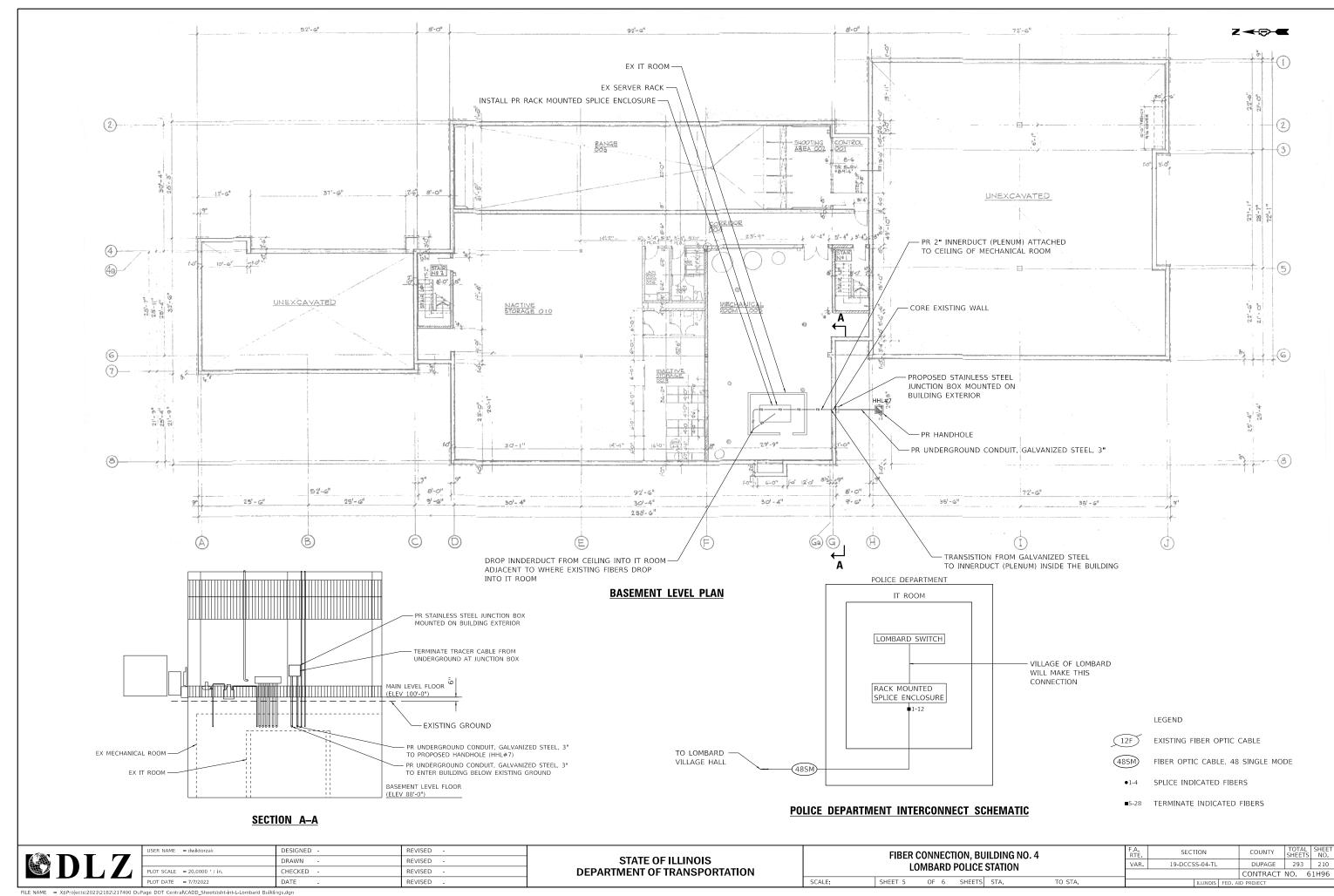
PLOT SCALE = 20.0000 ' / in.
PLOT DATE = 7/7/2022

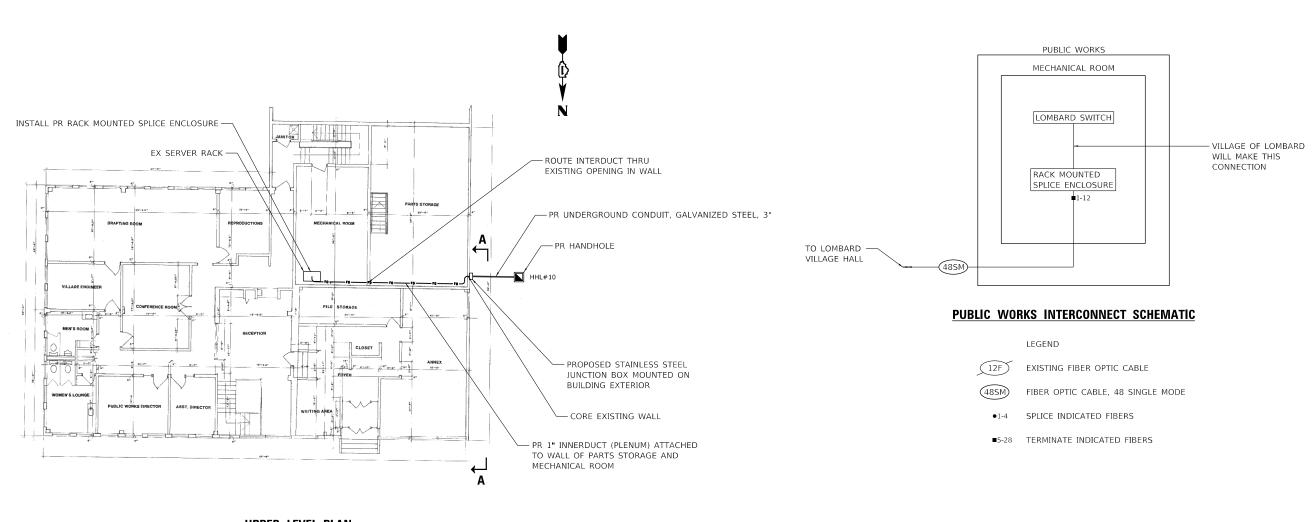
USER NAME = dwiktorzak	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 ' / in.	CHECKED -	REVISED -
DLOT DATE - 7/7/2022	DATE	DEVICED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

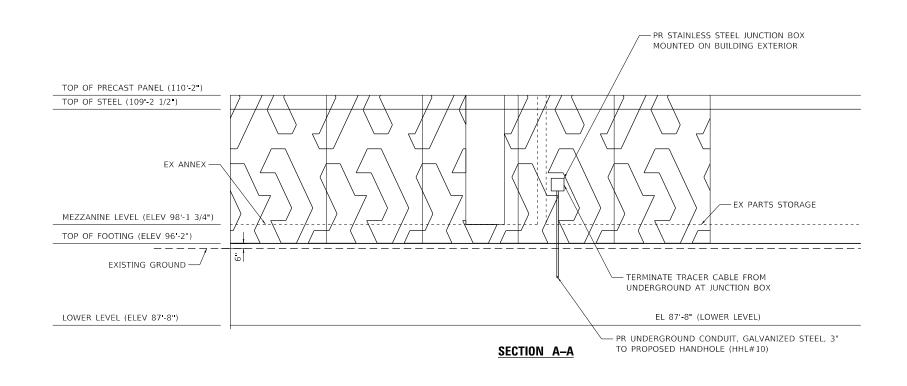
SCALE:

FIBER CONNECTION, BUILDING NO. 3					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LOMBARD VILLAGE HALL				VAR.	19-DCCSS-04-TL	DUPAGE	293	209	
LOWDAND VILLAGE HALL							CONTRACT	NO. 6	1H96
SHEET 4	OF 6	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





**UPPER LEVEL PLAN** 



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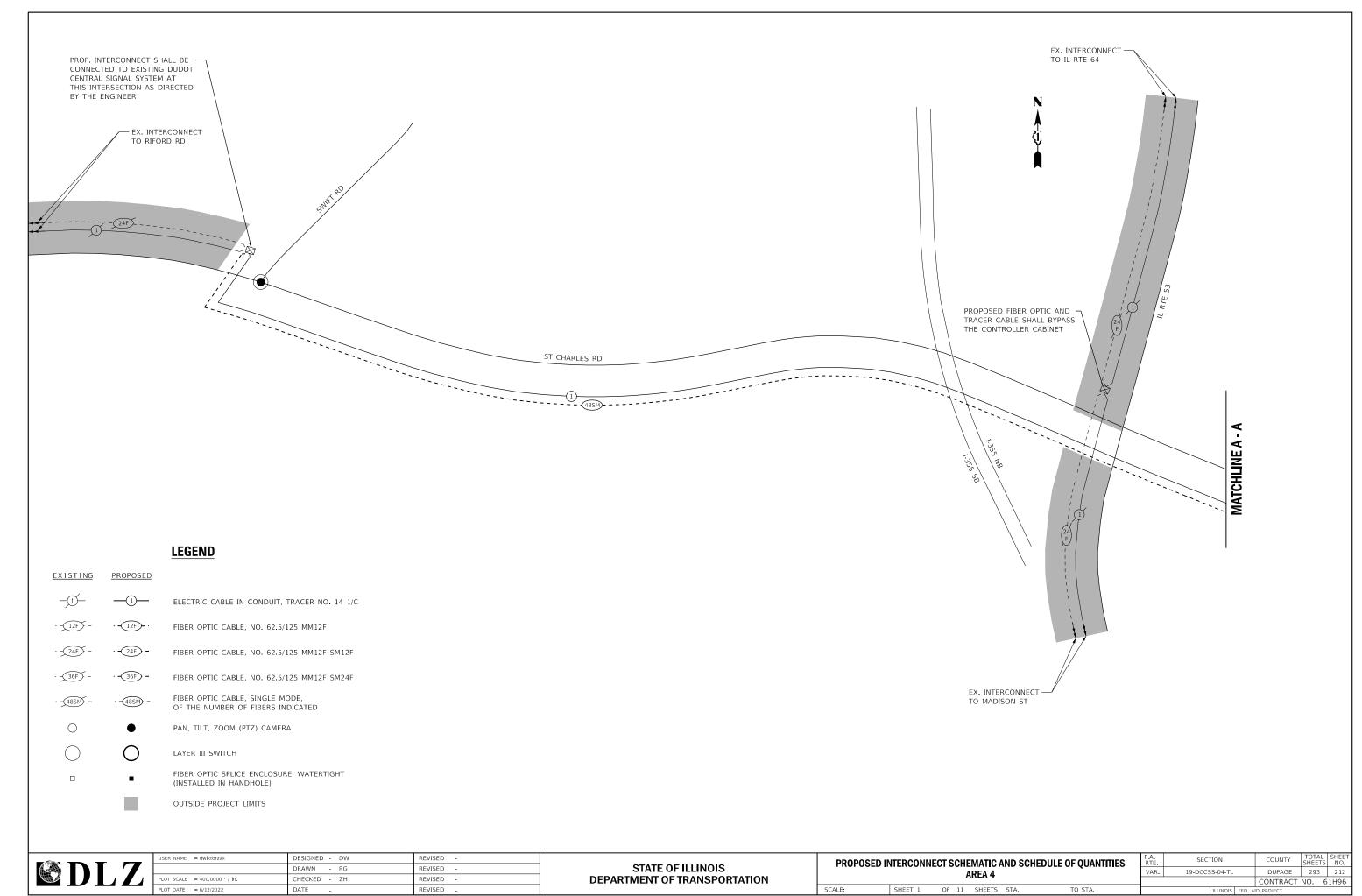
USER NAME = dwiktorzak	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/7/2022	DATE -	REVISED -

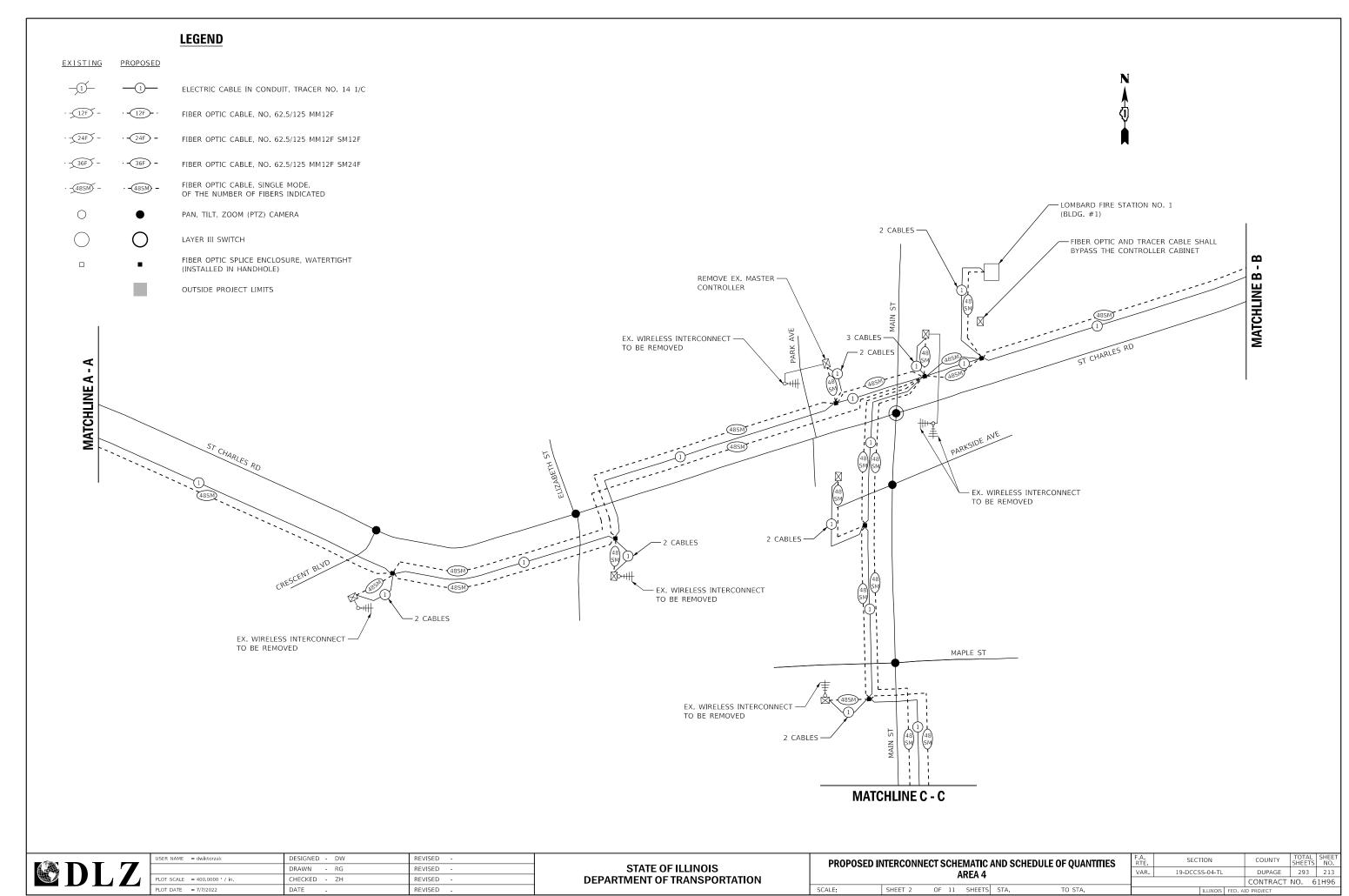
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

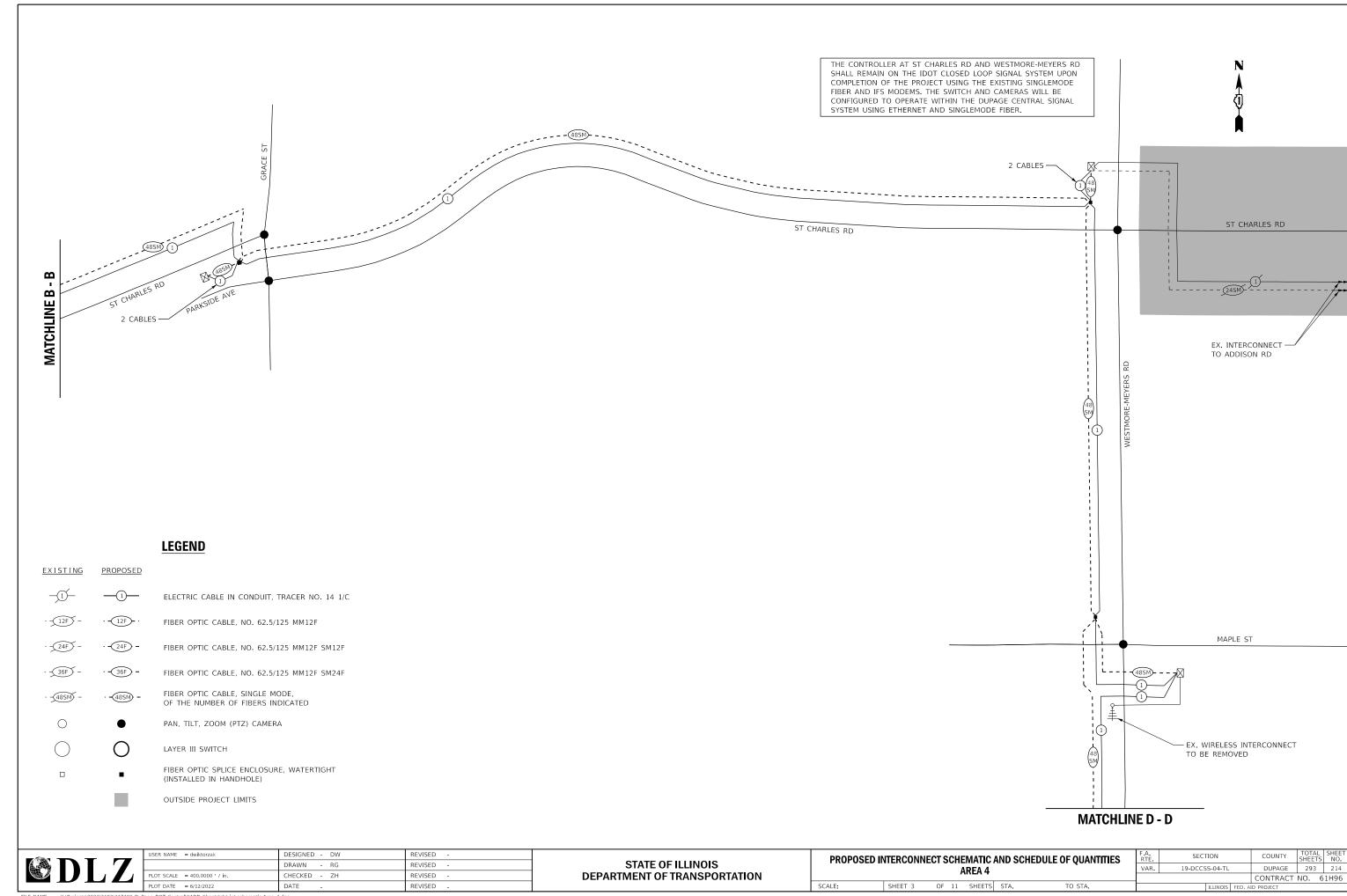
FIBER CONNECTION, BUILDING NO.5
LOMBARD PUBLIC WORKS

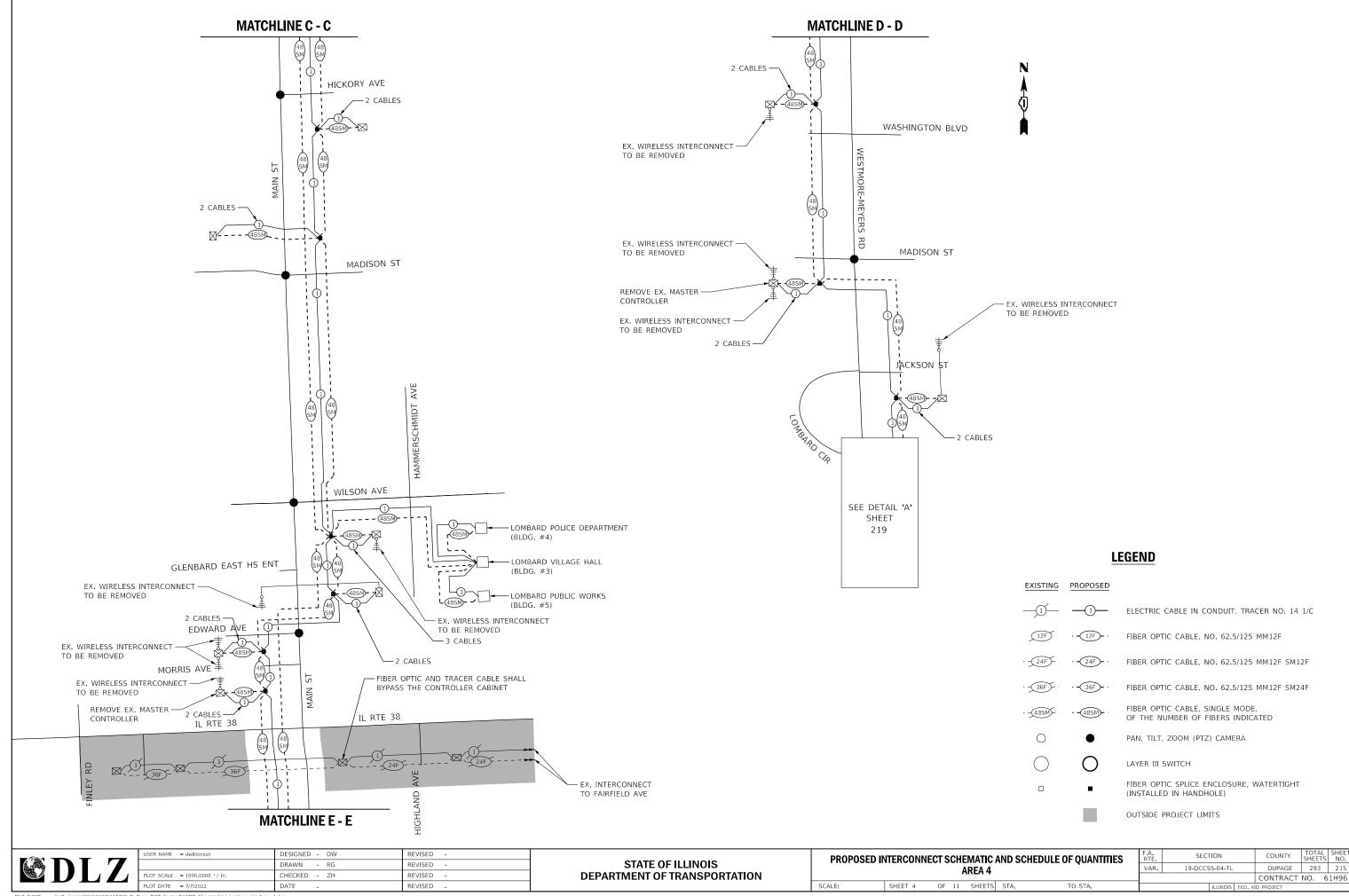
SHEET 6 OF 6 SHEETS STA. TO STA.

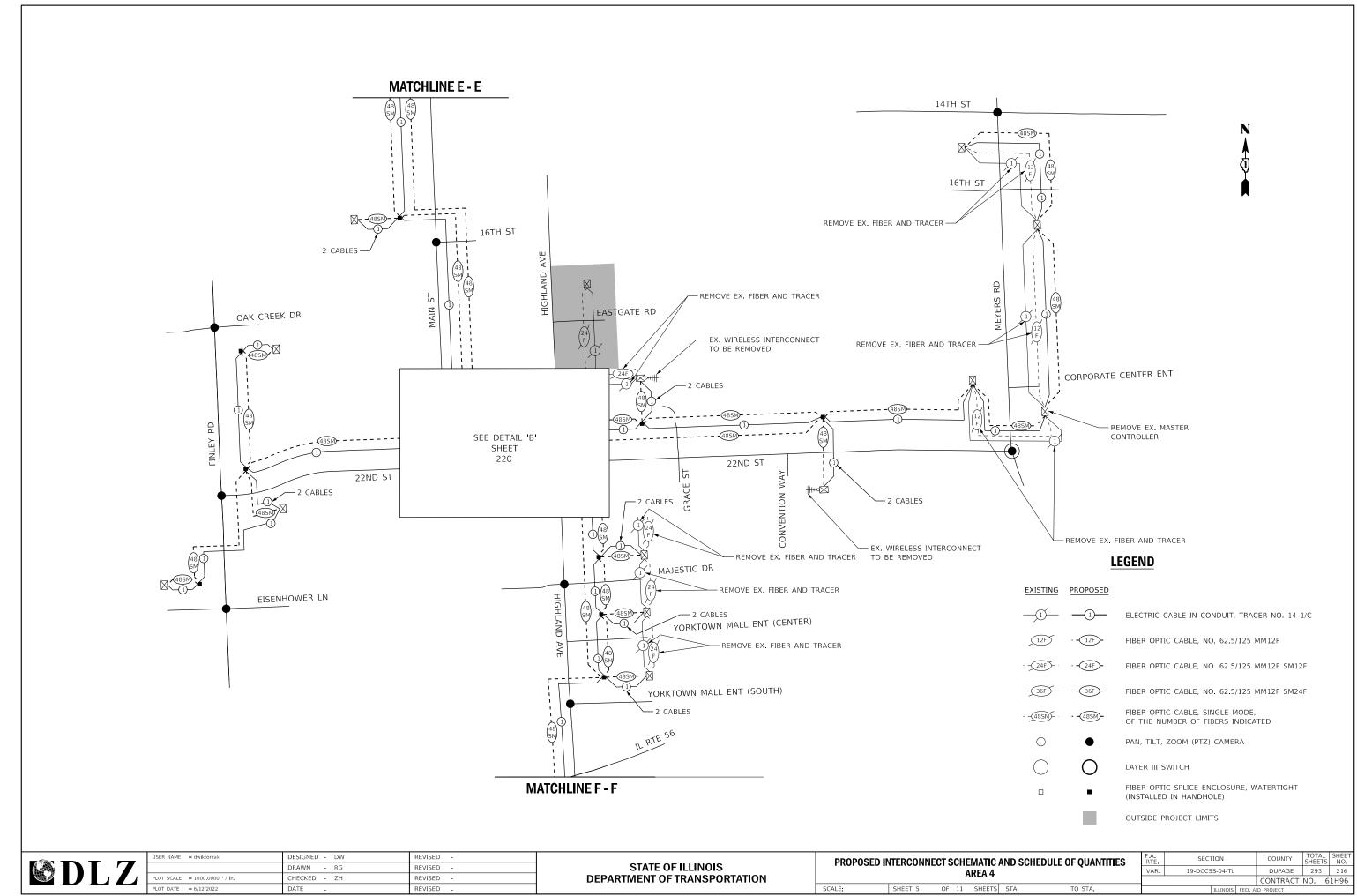
F.A. SECTION COUNTY TOTAL SHEETS NO.
VAR. 19-DCCSS-04-TL DUPAGE 293 211
CONTRACT NO. 61H96

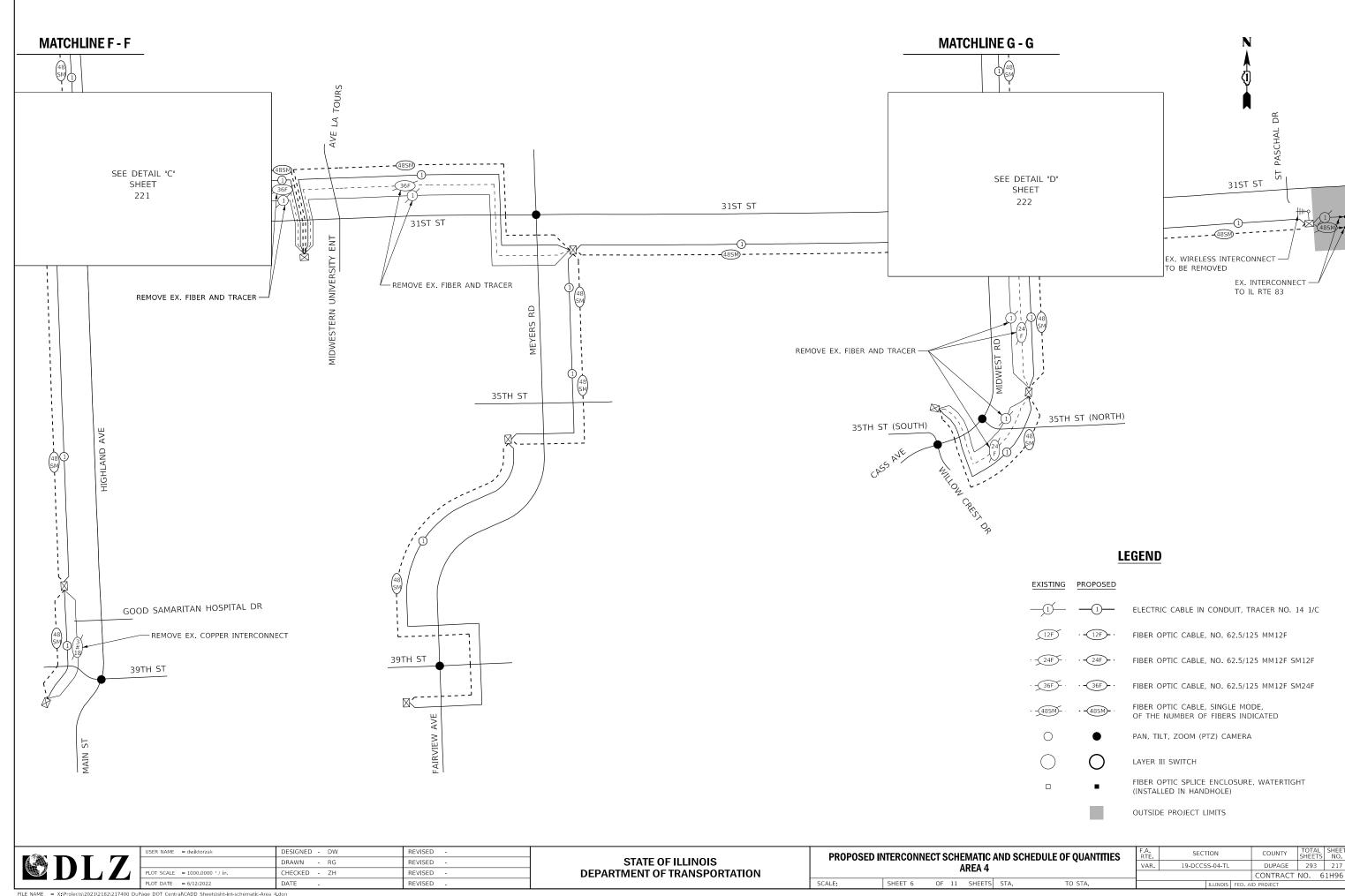












THE CONTROLLER AT MIDWEST RD AND BAYBROOK LN / I-88 RAMPS SHALL REMAIN ON THE IDOT MULTIMODE NETWORK UPON COMPLETION OF THE PROJECT. THE SWITCH AND CAMERAS WILL BE CONFIGURED TO OPERATE WITHIN THE DUPAGE CENTRAL SIGNAL SYSTEM USING ETHERNET AND SINGLEMODE FIBER.

### AREA 4 FIBER NOTES

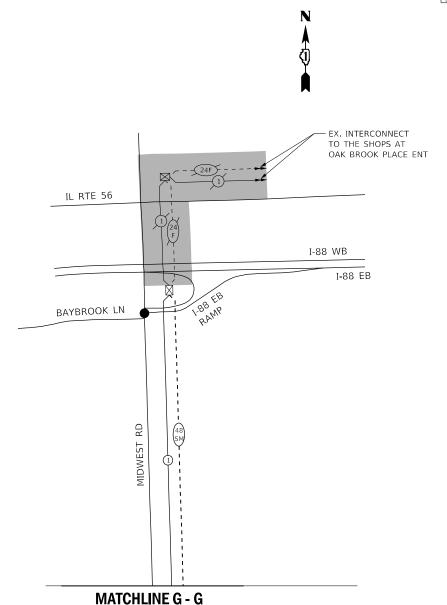
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIBER SPLICES AND TERMINATIONS FOR ALL PROPOSED FIBER OPTIC CABLES AS SPECIFIED IN THE SPECIAL PROVISIONS FOR FIBER OPTIC CABLES.

TERMINATIONS FOR EXISTING FIBER OPTIC CABLES AND SPLICES BETWEEN EXISTING FIBER OPTIC CABLES SHALL BE PAID FOR SEPARATELY. FOR BIDDING PURPOSES AN ESTIMATED QUANTITY OF SPLICES AND TERMINATIONS HAS BEEN INCLUDED IN THE QUANTITIES.

THE ACTUAL NUMBER OF TERMINATIONS AND SPLICES AT EACH LOCATION SHALL BE BASED ON THE NETWORK CONFIGURATION DOCUMENT SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE TRAFFIC ENGINEER. SEE THE SPECIAL PROVISION LAYER III SWITCH. SPLICES AND TERMINATIONS SHALL BE REALLOCATED BY THE ENGINEER, AS NEEDED, BETWEEN THE INTERCONNECT

AREA 4 FIBER SPLICE AND TERMINATION SCHEDULE:

ITEM DESCRIPTION	INCLUDED IN FIBER OPTIC CABLE PAY ITEM	TO PAID FOR SEPARATELY
TERMINATE FIBER IN CABINET	1300	92
SPLICE FIBER IN CABINET	1718	40



#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	PAY ITEM DESCRIPTION
110	CU YD	NON-SPECIAL WASTE DISPOSAL
2710	GALLON	SPECIAL WASTE GROUNDWATER DISPOSAL
12	EACH	SOIL DISPOSAL ANALYSIS
0.17	L SUM	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN
0.17	L SUM	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT
7.5	CAL DA	REGULATED SUBSTANCES MONITORING
702	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
962	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
357	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
71485	FOOT	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.
297	FOOT	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL
5	EACH	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"
111	EACH	HANDHOLE
3	EACH	HEAVY-DUTY HANDHOLE
3	EACH	DOUBLE HANDHOLE
10	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
106476	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
102	EACH	DRILL EXISTING HANDHOLE
22765	FOOT	
16130	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
36	EACH	FIBER OPTIC SPLICE CLOSURE, WATERTIGHT
1	EACH	LAYER III (NETWORK) SWITCH
133967	FOOT	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE
21981	FOOT	REMOVE FIBER OPTIC CABLE FROM CONDUIT
92	EACH	TERMINATE FIBER IN CABINET
40	EACH	SPLICE FIBER IN CABINET
35	EACH	LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE
1	L SUM	FIBER CONNECTION, BUILDING NO. 1
1	L SUM	FIBER CONNECTION, BUILDING NO. 2
1	L SUM	FIBER CONNECTION, BUILDING NO. 3
1	L SUM	FIBER CONNECTION, BUILDING NO. 4
1	L SUM	FIBER CONNECTION, BUILDING NO. 5
5	EACH	RACK MOUNTED SPLICE ENCLOSURE

### **LEGEND**

EXISTING	PROPOSED	
		ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C
12F	· -12F ·	FIBER OPTIC CABLE, NO. 62.5/125 MM12F
24F)- ·	· <b>-</b> 24F)- ·	FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F
- <del>36F)-</del> -	· -(36F)- ·	FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F
- <del>- 485M-</del> -	- <del>- (</del> 485M)- ·	FIBER OPTIC CABLE, SINGLE MODE, OF THE NUMBER OF FIBERS INDICATED
$\circ$	•	PAN, TILT, ZOOM (PTZ) CAMERA
	0	LAYER III SWITCH
		FIBER OPTIC SPLICE ENCLOSURE, WATERTIGHT (INSTALLED IN HANDHOLE)
		OUTSIDE PROJECT LIMITS

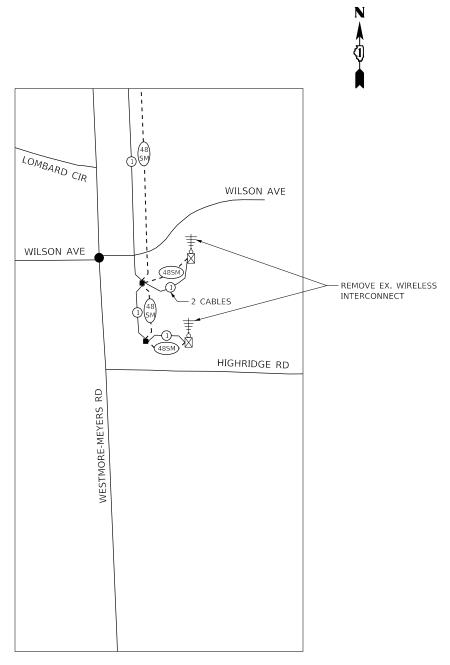


USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 1000.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 7/7/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE:

SECTION COUNTY PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES 19-DCCSS-04-TL VAR. DUPAGE 293 218 AREA 4 CONTRACT NO. 61H96 SHEET 7 OF 11 SHEETS STA. TO STA.



DETAIL 'A'

430	D	T	7	ŀ
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USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	
	DRAWN - RG	REVISED -	
PLOT SCALE = 300.0000 ' / in.	CHECKED - ZH	REVISED -	
PLOT DATE = 6/12/2022	DATE -	REVISED -	

	PROPOSED IN	NTERCONN	ECT S		EMATIC A	AND SC	HEDULE OF QUANTITIES	F.A. RTE. VAR	SECT 19-DCCS	TION SS-04-TL		COUNTY DUPAGE CONTRACT	TOTAL SHEETS 293	SHEET NO. 219
Г	SCALE:	SHEET 8	OF	11	SHEETS	STA.	TO STA.	<b>-</b>		ILLINOIS	FED. A	ID PROJECT	110.	711130

EXISTING PROPOSED

ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C

LIFE - LIFE - FIBER OPTIC CABLE, NO. 62.5/125 MM12F

FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F

FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F

FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F

FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F

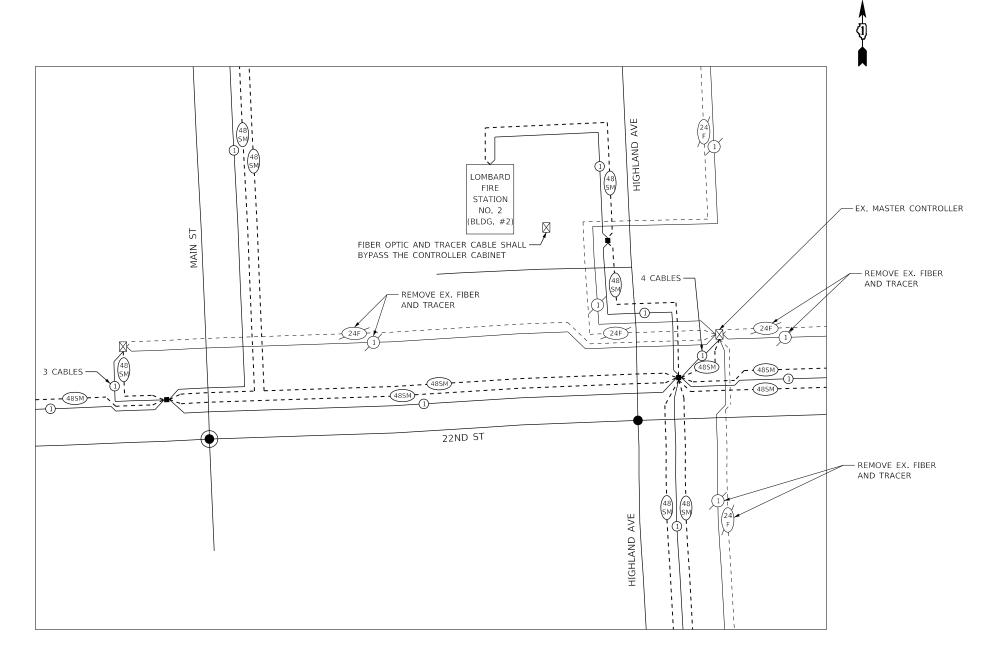
FIBER OPTIC CABLE, SINGLE MODE, OF THE NUMBER OF FIBERS INDICATED

PAN, TILT, ZOOM (PTZ) CAMERA

LAYER III SWITCH

FIBER OPTIC SPLICE ENCLOSURE, WATERTIGHT (INSTALLED IN HANDHOLE)

OUTSIDE PROJECT LIMITS



DETAIL 'B'

	Z	I	D		
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USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 300.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 7/7/2022	DATE -	REVISED -

PROPOSE											F.A. SECTION COUNTY			
	AREA 4									19-DCCSS-04-TL			220	
											CONTRACT	NO.	61H96	
SCALE:	SHEET 9	OF	11	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT			

EXISTING PROPOSED

Clectric Cable in Conduit, tracer no. 14 1/C

Cleft - Cable in Conduit, tracer no. 14 1/C

Fiber Optic Cable, no. 62.5/125 mm12f

Fiber Optic Cable, no. 62.5/125 mm12f sm12f

Fiber Optic Cable, no. 62.5/125 mm12f sm24f

Fiber Optic Cable, no. 62.5/125 mm12f sm24f

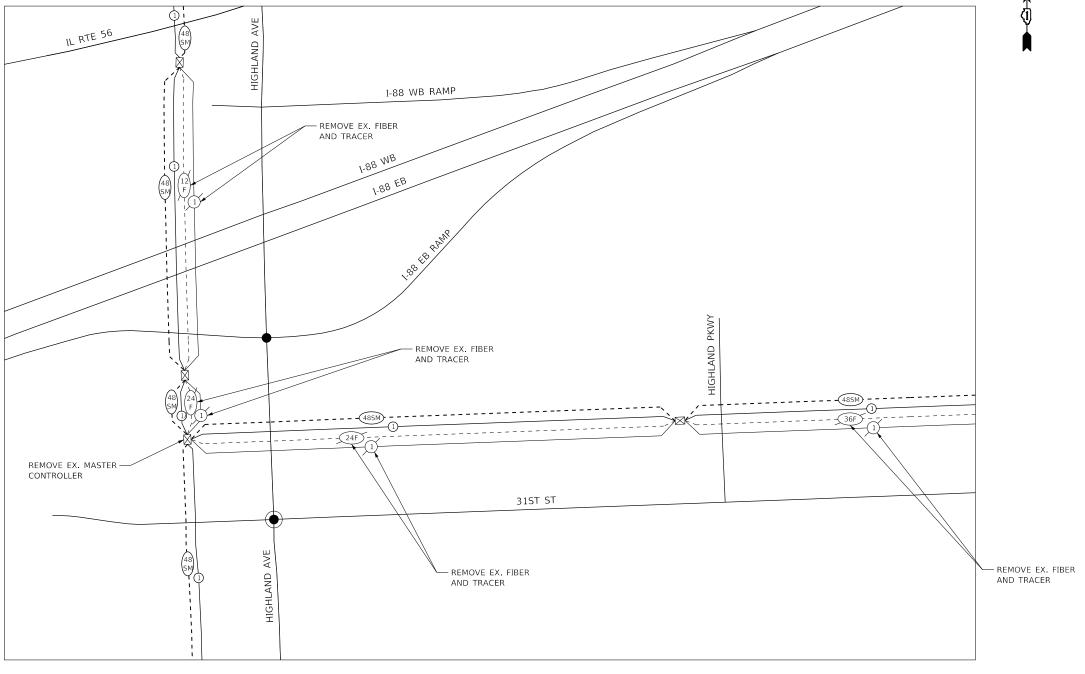
Fiber Optic Cable, single mode, of the number of fibers indicated

Pan, tilt, zoom (ptz) camera

Layer III switch

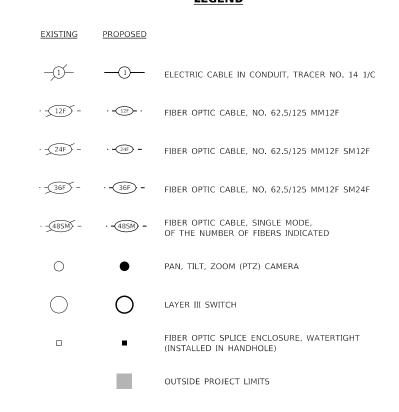
Fiber Optic Splice enclosure, watertight (installed in handhole)

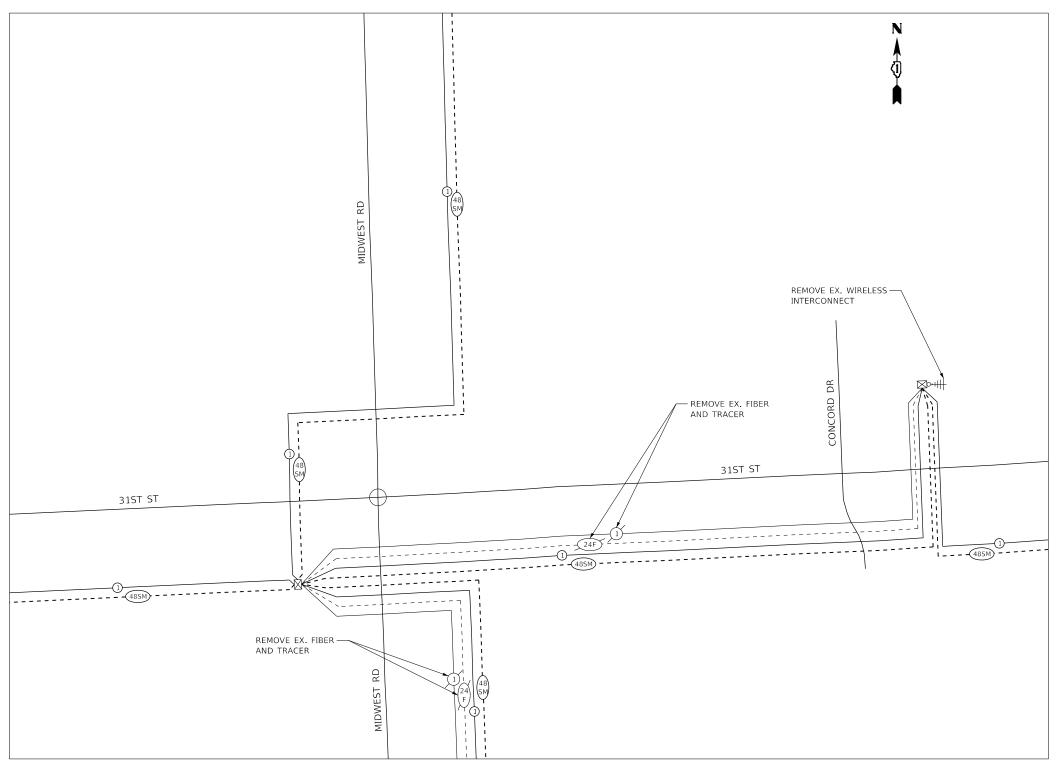
OUTSIDE PROJECT LIMITS



DETAIL 'C'

L											
	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -		DDUDUSE	D INTERCONNECT SCHEMATIC AND SCHEDIII E OF OIL	ANITITIES	F.A. RTE	SECTION	COUNTY	TOTAL SHEET
		DRAWN - RG	REVISED -	STATE OF ILLINOIS	PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES		VAR	19-DCCSS-04-TL	DUPAGE	293 221	
	PLOT SCALE = 300.0000 ' / in.	CHECKED - ZH	REVISED -	DEPARTMENT OF TRANSPORTATION	AREA 4				CONTRACT	NO. 61H96	
	 PLOT DATE = 6/12/2022	DATE -	REVISED -		SCALE:	SHEET 10 OF 11 SHEETS STA. TO STA	Α. –		ILLINOIS FED.	AID PROJECT	





DETAIL 'D'

43	N D	T	7

USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 300.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

	PROPOSED IN	NTERCONN	ECT S		EMATIC A	AND SCH	IEDULE OF QUANTITIES	F.A. RTE. VAR.	SEC	TION SS-04-TL		COUNTY  DUPAGE CONTRACT	SHEETS 293	SHEET NO. 222
SC	CALE:	SHEET 11	OF	11	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT	110.	311130



### LEGE



PROPOSED INTERCONNECT AREA - SEE INTERCONNECT PLANS

PROPOSED SIGNAL IMPROVEMENT CORRIDOR



PROPOSED SIGNAL IMPROVEMENT LOCATION

### INTERSECTION PLANS

<u>#</u>	LOCATION	SHEETS
38	WEHRLI RD/COLLEGE RD AND HOBSON RD	225
37	COLLEGE RD AND GREEN TRAILS DR	226
77	YACKLEY AVE AND OHIO ST	227
78	YACKLEY AVE AND WARRENVILLE RD	228 - 229
40	HOBSON RD AND WASHINGTON ST	230
36	HOBSON RD AND OLESEN DR	231
39	HOBSON RD AND NAPER BLVD	232
35	HOBSON RD AND GREENE RD	233 - 234
34	HOBSON RD AND DOUBLE EAGLE DR	235
41	HOBSON RD AND WOODRIDGE DR	236
44	MAPLE AVE AND PATTON DR/LAKE DR	237
45	MAPLE AVE AND PRIMROSE AVE	238

### INTERCONNECT PLANS

	LOCATION	SHEETS
A	COLLEGE RD	239 - 240
B	YACKLEY AVE	241 - 243
<b>©</b>	HOBSON RD (WEST)	244 - 245
D	HOBSON RD (EAST)	246 - 248
E	MAPLE AVE	249 - 250



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USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 4000.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

SCALE:

F	AFFIC SIGNAL MODERNIZATION PLAN - AREA 5	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	AREA 5 LOCATION MAP	VAR.	19-DCCSS-04-TL	DUPAGE	293	223
	AILLA 3 LOOATION WAI			CONTRACT	NO.	61H96
	SHEET 1 OF 1 SHEETS STA TO STA		TILLINOIS SED	UD DROJECT		

### AREA 5 SIGNAL IMPROVEMENTS

85000200 MAINTENA 86400100 TRANSCEI	M DESCRIPTION  NANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EIVER - FIBER OPTIC	UNIT  EACH EACH	TOTAL 12	HOBSON RD	GREEN TRAILS RD	OHIO ST	WARRENVILLE RD	WASHINGTON ST	N DR /PRIVATE DR	ВLVD	RD	EAGLE DR	E DR	DR/LAKE DR	E
86400100 TRANSCE			17		_	0	*	WAS	OLESEN	NAPER B	GREENE F	DOUBLE EA	WOODRIDGE	PATTON DR/	PRIMROSE AV
	EIVER - FIBER OPTIC	FACIL	12	1	1	1	1	1	1	1	1	1	1	1	1
87300010 GROUNDI		EACH	2								1	1			
	DING EXISTING HANDHOLE FRAME AND COVER	EACH	4									4			
87301805 ELECTRIC	C CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	93									93			
87301900 ELECTRIC	C CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	750									750			
88500100 INDUCTIV	VE LOOP DETECTOR	EACH	3									3			
89501410 RELOCATI	TE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1									1			
89502300 REMOVE	ELECTRIC CABLE FROM CONDUIT	FOOT	1264				1118					146			
89502375 REMOVE	EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3						1		1	1			
89502380 REMOVE	EXISTING HANDHOLE	EACH	1				1								$\Box$
X0324599 ROD AND	D CLEAN EXISTING CONDUIT	FOOT	73									73			$\Box$
X0326104 RELOCATI	TE RADAR DETECTOR SYSTEM	EACH	1									1			
X1400102 OUTDOOF	DR RATED NETWORK CABLE	FOOT	279								279				
X1400215 REMOTE (	CONTROLLED VIDEO SYSTEM	EACH	1								1				
X1400216 LAYER II	(DATALINK) SWITCH	EACH	3						1		1	1			$\neg \neg$
X1400303 FIBER OP	PTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	9		1			1	1	1	1	1	1	1	1
X8050095 SERVICE	INSTALLATION (SPECIAL)	EACH	1									1			
X8570215 FULL-ACT	TUATED CONTROLLER IN EXISTING CABINET	EACH	2						1		1				
X8570226 FULL-ACT	TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1									1			
X8620200 UNINTERF	RRUPTABLE POWER SUPPLY, SPECIAL	EACH	3						1		1	1			
X8950212 MODIFY E	EXISTING CONTROLLER CABINET, SPECIAL	EACH	9		1		1	1	1	1	1		1	1	1
XX007622 ELECTRIC	C METER	EACH	2						1		1				
XX009046 VEHICLE	DETECTION SYSTEM, SPECIAL	EACH	1				1								
POE EXTE	TENDER	EACH	1								1				

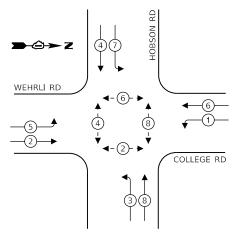


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	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

	STATE OF ILLINOIS
D	EPARTMENT OF TRANSPORTATION

SCALE:

	0.4					F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	
SCHEDULE OF QUANTITIES				S	VAR.	19-DCCSS-04-TL		DUPAGE	293	224	
									CONTRACT	NO.	61H96
	SHEET 1	OF	1 SHEE	S STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		



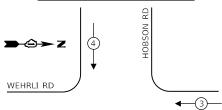
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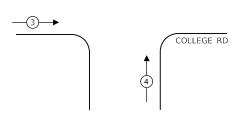
**◆ \* PROTECTED PHASE** 

← - (\*)- - PROTECTED/PERMITTED PHASE

OVERLAP OVERLAP

### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE





### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
			TOTAL =	1019

ENERGY COSTS TO:

### DUPAGE COUNTY D.O.T.

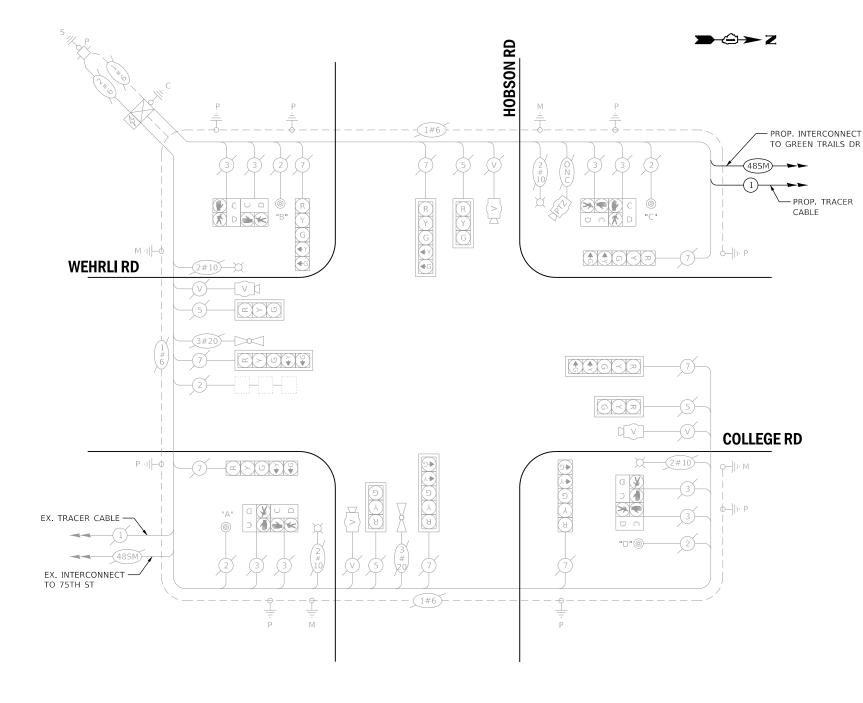
421 N. COUNTY FARM RD.

WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO PHONE: (630)-424-5704

COMPANY: COMED LOMBARD

√-(\*)- ► PEDESTRIAN PHASE



### **SCHEDULE OF QUANTITIES**

QUANTITY ITEM DESCRIPTION UNIT

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

**CABLE PLAN** 

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

TRAFFIC SIGNAL BEING MODIFIED BY IDOT CONTRACT # 61H22.

SCALE:

### **DUDOT**

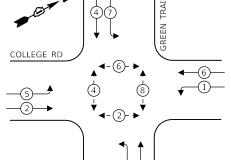


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	DRAWN - RG	REVISED -
T SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
T DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	,			,	EMERGENCY VEHICLE	F.A. RTE	SEC <sup>-</sup>	ПОИ	
PREEMPII					QUANTITIES - AREA 5	VAR.	19-DCCS	S-04-TL	
	WEHRLI RI	D/COLLI	<u>-GE RD /</u>	<u>and ho</u>	BSON RD				
E:	SHEET 1	OF 14	SHEETS	STA.	TO STA.			ILLINOIS	F

FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT Central\CADD\_Sheets\sht-5A-College-ts-Cable.dgn
Int 38



38

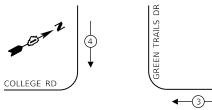
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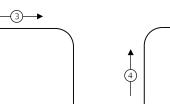
- **◆** PROTECTED PHASE
- √-(\*)- ► PEDESTRIAN PHASE

← - (\*)- - PROTECTED/PERMITTED PHASE

OL OVERLAP

### EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





### TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	12	11	50	66
	(YELLOW)	12	20	5	12
	(GREEN)	12	12	45	65
PERMISSI	VE ARROW	16	10	10	16
PED. SIG	NAL	8	20	100	160
CONTROL	LER	1	100	100	100
UPS		1	25	100	25
VIDEO SY	/STEM	-	150	100	-
BLANK-O	UT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET N	NAME SIGN	-	120	50	-
LUMINAIR	RE	2	250	50	250
PTZ CAM	ERA	1	75	100	75

ENERGY COSTS TO:

### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

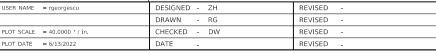
PHONE: (708)-235-2692

COMPANY: COMED UNIVERSITY PARK

TOTAL = 769

ACCOUNT NUMBER:\_

## **©DLZ**



### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**COLLEGE RD** 

PROP. INTERCONNECT TO HOBSON RD

PROP. TRACER CABLE

5 · II - Q - Z#6 - XK

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5

COLLEGE RD AND GREEN TRAILS DR

SHEET 2 OF 14 SHEETS STA. TO STA.

**GREEN TRAILS DR** 

-(1#6)

FIRE DISTRICT PRE-EMPION

PUSH-BUTTON

SECTION COUNTY TOTAL SHEET NO.

19-DCCSS-04-TL DUPAGE 293 226

CONTRACT NO. 61H96

EX. INTERCONNECT TO ABBEYWOOD DR

- EX. TRACER CABLE

### SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

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

2#10 — |I-M

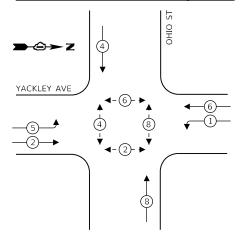
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CABLE PLAN

TRAFFIC SIGNAL BEING MODIFIED BY IDOT CONTRACT # 61H22.

### DUDOT

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### **LEGEND:**

**◆ \* PROTECTED PHASE** 

← -(\*)- - PROTECTED/PERMITTED PHASE

√
→
PEDESTRIAN PHASE

Output

Description

PEDESTRIAN

PHASE

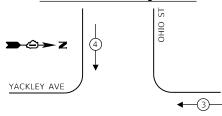
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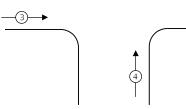
Description

PEDESTRIAN

PHASE

### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE





### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

NO. OF	LED	%	TOTAL
LAMPS	WATTAGE	OPERATION	WATTAGE
12	11	50	66
12	20	5	12
12	12	45	65
8	10	10	8
4	20	100	80
1	100	100	100
1	25	100	25
-	150	100	-
-	25	5	-
-	·=·	50	=
-	120	50	=
2	250	50	250
-	75	100	=
		TOTAL =	606
	12 12 12 12 8 4 1 1 -	LAMPS WATTAGE  12 11  12 20  12 12  8 10  4 20  1 100  1 25  - 150  - 25  - 120  2 250	LAMPS         WATTAGE         OPERATION           12         11         50           12         20         5           12         12         45           8         10         10           4         20         100           1         100         100           -         150         100           -         25         5           -         -         50           -         120         50           2         250         50           -         75         100

ENERGY COSTS TO:

### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187

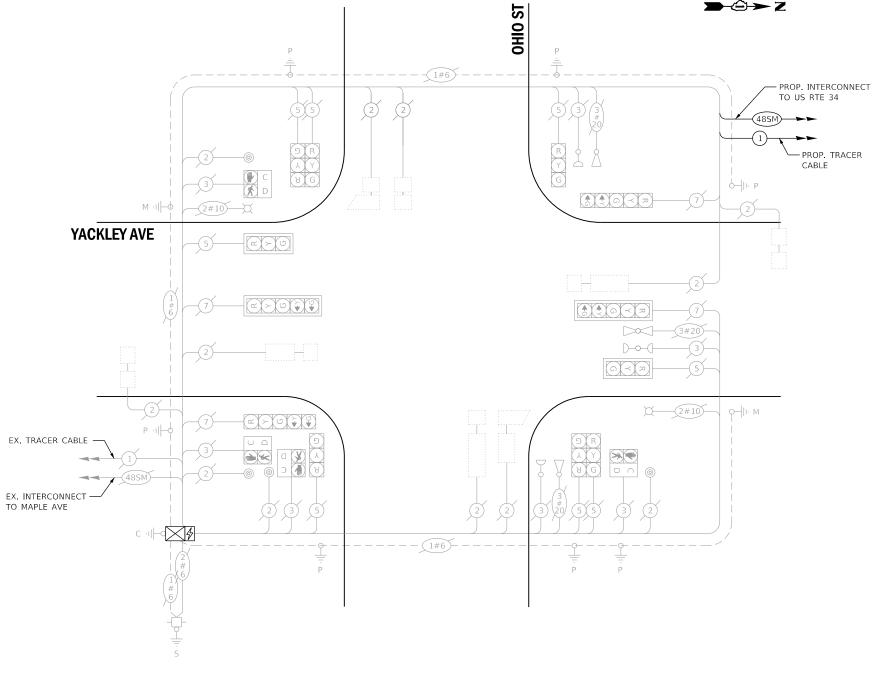
ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK

ACCOUNT NUMBER:

### **SCHEDULE OF QUANTITIES**

QUANTITY ITEM DESCRIPTION UNIT MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION



### **CABLE PLAN**

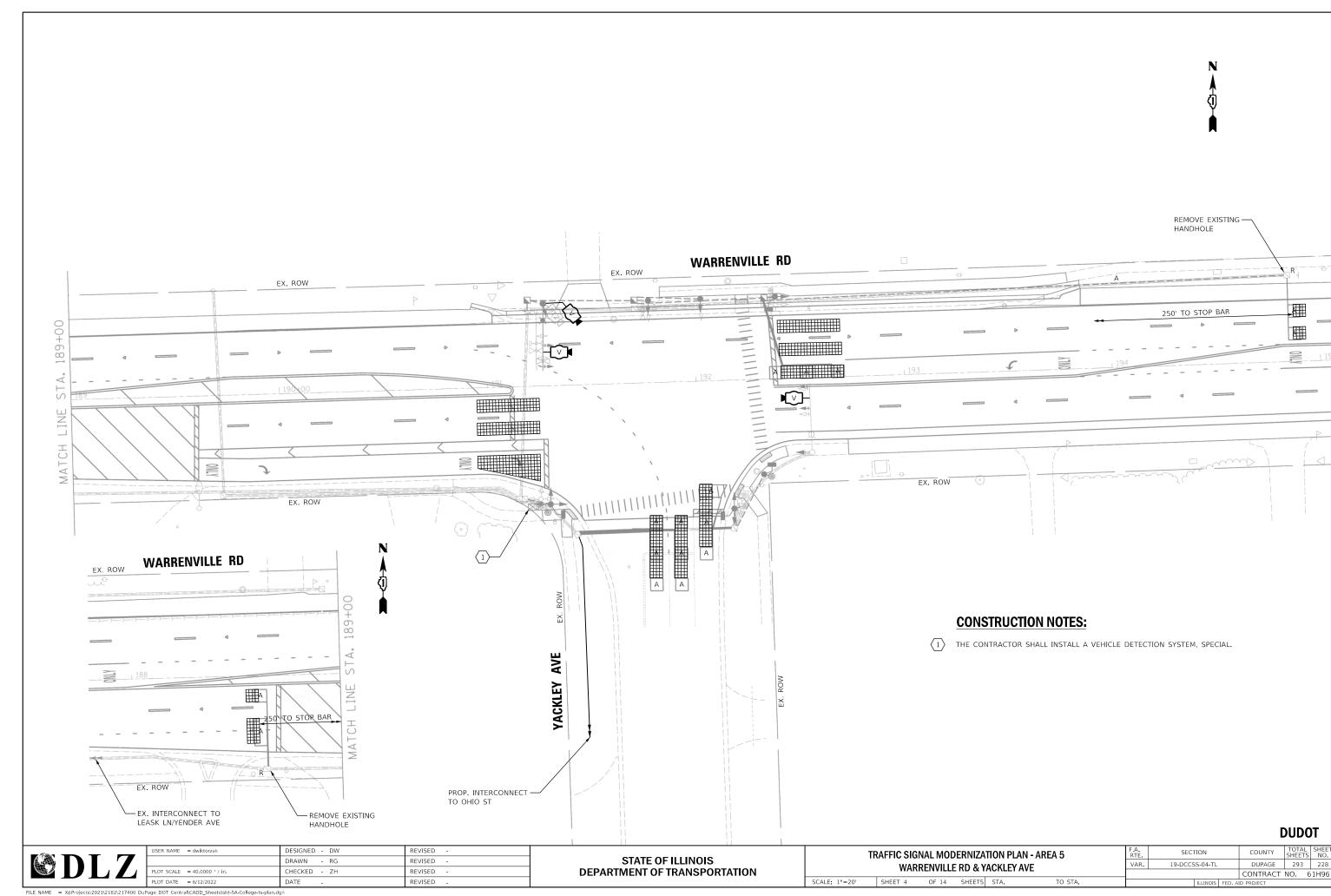
TRAFFIC SIGNAL BEING MODIFIED BY IDOT CONTRACT # 61H22.

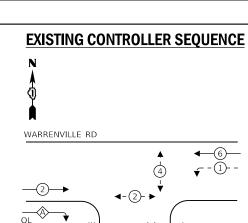
### DUDOT



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	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

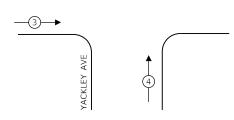
										<i>,</i>
	,			. ,	ERGENCY VEHICLE	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	
PREEMPII		-			INTITIES - AREA 5	VAR.	19-DCCSS-04-TL	DUPAGE	293	22
	Y	<u>'ACKLEY A</u>	<u>ve and</u>	OHIO ST				CONTRACT	NO. 6	51H9
	CHEET 2	OF 14	CHEETC	CTA	TO CTA					





### EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





### TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	14	12	45	76
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	=
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	250	50	125
PTZ CAMERA	1	75	100	75
	-		TOTAL =	571

ENERGY COSTS TO:

### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: (630)-424-5704
COMPANY: COM-ED LOMBARD

### **LEGEND:**

**◆** PROTECTED PHASE

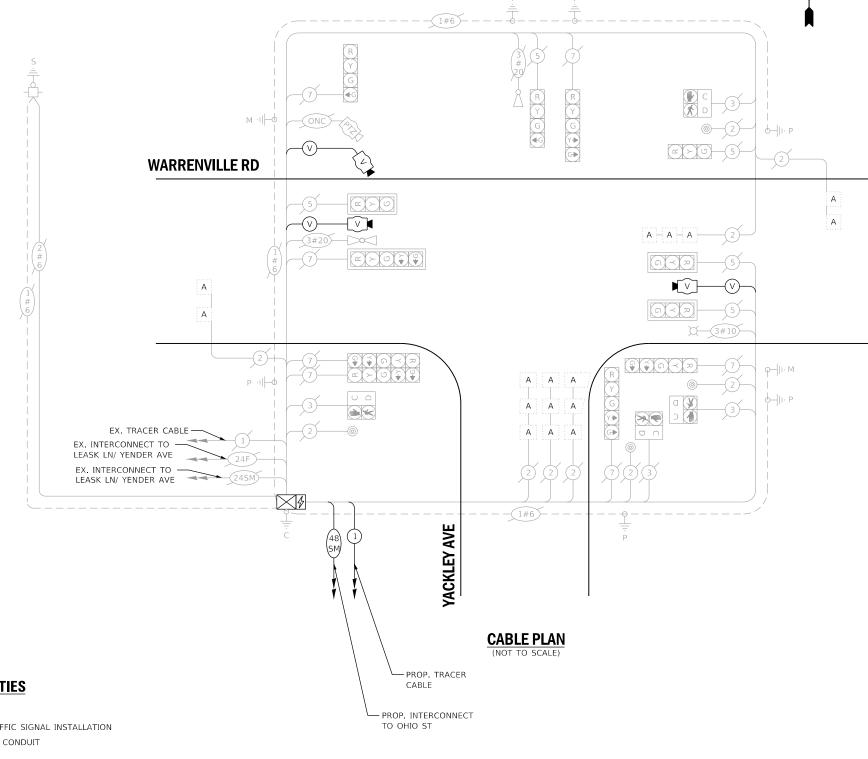
← - \* - PROTECTED/PERMITTED PHASE

→ PEDESTRIAN PHASE

◆ OL OVERLA

### RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSIVE		<b>PROTECTED</b>
LETTER		PHASE		PHASE
Α	=	2	+	4
С	-	4	+	1



### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALL
1118	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING HANDHOLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

**DUDOT** 

DUPAGE 293 229

CONTRACT NO. 61H96

COUNTY

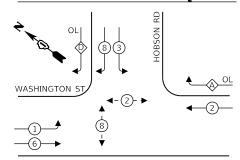


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PLOT SCALE = 40.0000 / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5
YACKLEY AVE AND WARRENVILLE RD

SHEET 5 OF 14 SHEETS STA. TO STA. | ILLINOIS FED.



### **LEGEND:**

**◆ \* PROTECTED PHASE** 

← -(\*)- - PROTECTED/PERMITTED PHASE

√
→
PEDESTRIAN PHASE

Output

Description

PEDESTRIAN

PHASE

Output

Description

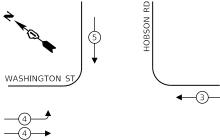
PEDESTRIAN

PHASE

### RIGHT TURN OVERLAP **PHASE DESIGNATION:**

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3

### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE



	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	·=·	50	=
STREET NAME SIGN	3	120	50	180
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
			TOTAL =	810

ENERGY COSTS TO:

### CITY OF NAPERVILLE

400 S. EAGLE ST. NAPERVILLE, IL 60540

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD

	TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS						
	LUINIUP						
		NO. OF	LED	%	TOTAL		
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE		
SIGNAL	(RED)	14	11	50	77		
	(YELLOW)	14	20	5	14		
	(GREEN)	14	12	45	76		
PERMISS:	IVE ARROW	8	10	10	8		
PED. SIG	INAL	4	20	100	80		
CONTRO	LLER	1	100	100	100		
UPS		1	25	100	25		
VIDEO S'	YSTEM	-	150	100	-		
BLANK-O	UT SIGN	-	25	5	-		
FLASHER		-	-	50	-		
STREET NAME SIGN		3	120	50	180		
LUMINAI	RE	2	250	50	250		
PTZ CAM	1ERA	-	75	100	-		

# PROP. TRACER CABLE -PROP. INTERCONNECT -TO OLESEN DR - (1#6)-- EX. INTERCONNECT TO 75TH ST — EX. TRACER CABLE — EX. INTERCONNECT TO 75TH ST **WASHINGTON ST** Vashington St EX. TRACER CABLE-EX. INTERCONNECT CABLE -

**CABLE PLAN** (NOT TO SCALE)

### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATIO
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

### **NAPERVILLE**



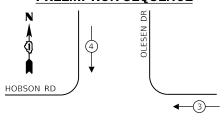
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	DRAWN - RG	REVISED -
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LOT DATE = 6/12/2022	DATE -	REVISED -

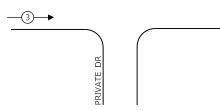
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5 19-DCCSS-04-TL HOBSON RD AND WASHINGTON ST

### **EXISTING CONTROLLER SEQUENCE** HOBSON RD **∢**-6)- **▶**

# **←**6 4

### **EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**





### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	11	11	50	61
(YELLOW)	11	20	5	11
(GREEN)	11	12	45	60
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
			TOTAL =	631

ENERGY COSTS TO:

#### **DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD

ACCOUNT NUMBER

### **LEGEND:**

**◆ \* PROTECTED PHASE** 

← - (\*)- - PROTECTED/PERMITTED PHASE

√-(\*)- ► PEDESTRIAN PHASE

OVERLAP OVERLAP

### REMOVAL AND RELOCATION OF **EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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 UNIT BID PRICE.

1 EACH CONTROLLER (ASC/2S-2100)

### **CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

### **OLESEN DR** 1#6 PROP. INTERCONNECT TO WASHINGTON ST - PROP. TRACER CABLE (48SM) PROP. TRACER CABLE - PROP. INTERCONNECT TO NAPER BLVD **HOBSON RD** 1)--0--(1 (3#20)— -(2#10)--(1#6)-PRIVATE DR

### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER

**CABLE PLAN** 

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NCTIP (LATEST

### **DUDOT**

-1234

DISCONNECTED

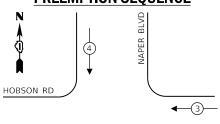


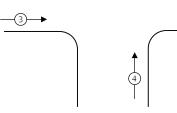
USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5 19-DCCSS-04-TL HOBSON RD AND OLESEN DR/PRIVATE DR
SHEET 7 OF 14 SHEETS STA.

# **EXISTING CONTROLLER SEQUENCE** 61 HOBSON RD **▼ 4**-4-52

### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE





### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	16	11	50	88
	(YELLOW)	16	20	5	16
	(GREEN)	16	12	45	87
PERMISSI	VE ARROW	16	10	10	16
PED. SIG	NAL	8	20	100	160
CONTROLLER		1	100	100	100
UPS		1	25	100	25
VIDEO SYSTEM		-	150	100	-
BLANK-OUT SIGN		-	25	5	-
FLASHER		-	-	50	-
STREET 1	NAME SIGN	-	120	50	-
LUMINAIF	RE	2	250	50	250
PTZ CAM	ERA	1	75	100	75

ENERGY COSTS TO:

### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

### PHONE: (630)-424-5704 COMPANY: COMED LOMBARD

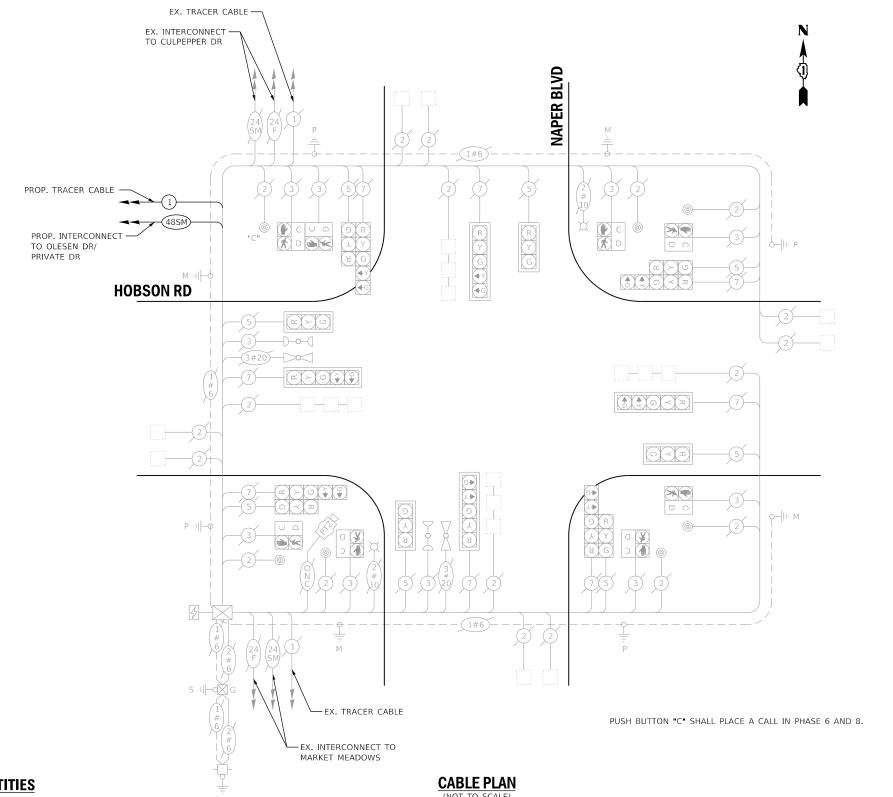
TOTAL = 817

### **LEGEND:**

**◆ \* PROTECTED PHASE** 

← -(\*)- - PROTECTED/PERMITTED PHASE

◆- \*- PEDESTRIAN PHASE



### **SCHEDULE OF QUANTITIES**

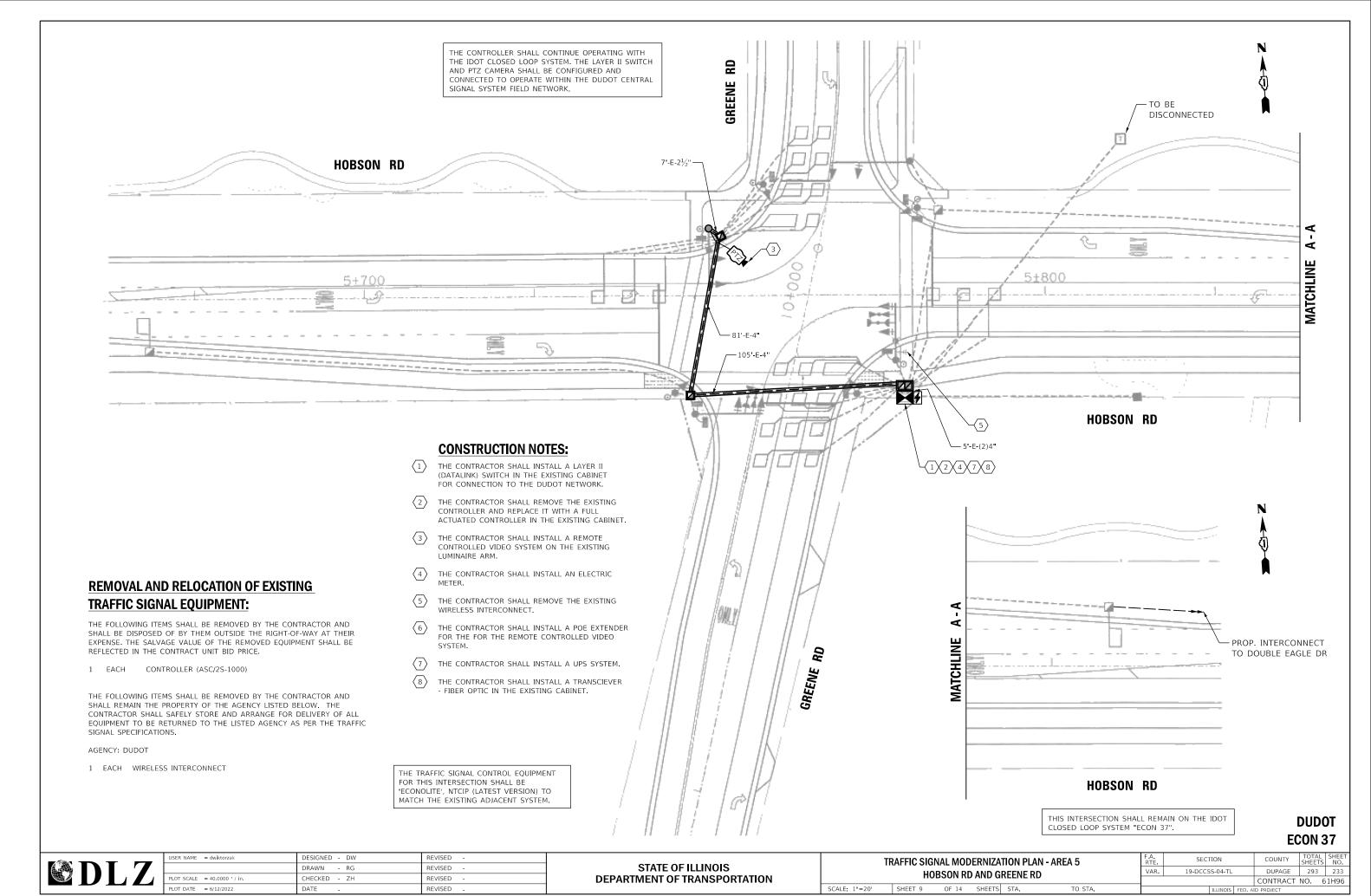
QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

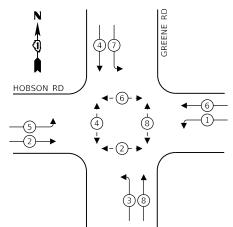
**DUDOT** 



JSER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

											'	•
	,			- ,	MERGENCY VEHICLE	F.A. RTE	SEC <sup>-</sup>	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
PREEMPII					UANTITIES - AREA 5	VAR.	19-DCCS	S-04-TL		DUPAGE	293	232
	но	<u>BSON RD</u>	AND NA	<u> (Per bli</u>	/D					CONTRACT	NO. 6	1H96
LE:	SHEET 8	OF 14	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		





### **LEGEND:**

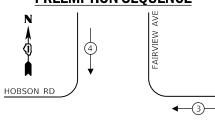
**◆** PROTECTED PHASE

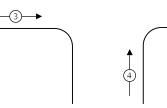
← - (\*)- - PROTECTED/PERMITTED PHASE

√-(\*)- ► PEDESTRIAN PHASE

OL OVERLAR

### EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	=	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
			TOTAL =	769

ENERGY COSTS TO:

### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK

THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH AND PTZ CAMERA SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	POE EXTENDER
279	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 2 AND 4 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8

CABLE PLAN

(1#6)

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 37".

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MATCH THE EXISTING ADJACENT SYSTEM.

### DUDOT ECON 37

DUPAGE 293 234

CONTRACT NO. 61H96

COUNTY

PROP. INTERCONNECT TO DOUBLE EAGLE DR

- EX. WIRELESS
INTERCONNECT TO
DOUBLE EAGLE DR
(TO BE REMOVED)

DISCONNECTED

- PROP. TRACER CABLE



SER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
LOT SCALE = 40.0000 / in.	CHECKED - DW	REVISED -
LOT DATE = 6/12/2022	DATE -	REVISED -

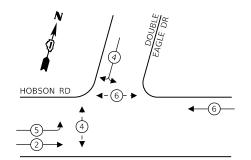
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**HOBSON RD** 

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5
HOBSON RD AND GREENE RD

SHEET 10 OF 14 SHEETS STA. TO STA.

GREENE RD



### **LEGEND:**

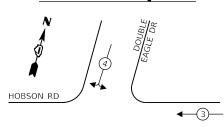
**★**PROTECTED PHASE

← -(\*)- - PROTECTED/PERMITTED PHASE

√-(\*)- PEDESTRIAN PHASE

OVERLAP OVERLAP

### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE



### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
			TOTAL =	732

ENERGY COSTS TO:

#### **DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692

COMPANY: COMED UNIVERSITY PARK ACCOUNT NUMBER

#### DESIGNED - ZH JSER NAME = dwiktorzak REVISED DRAWN - RG REVISED HECKED - DW REVISED REVISED PLOT DATE = 6/12/2022 DATE

REMOVAL AND RELOCATION OF **EXISTING TRAFFIC SIGNAL EQUIPMENT:** 

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 UNIT BID PRICE.

CONTROLLER (ASC/2S-2100) AND CABINET (COMPLETE)

SERVICE INSTALLATION

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICKUP (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 WIRELESS INTERCONNECT

#### **CONSTRUCTION NOTES:**

THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT AND RADAR DECTOR SYSTEM.

THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION

THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT

THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS

THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

THE CONTRACTOR SHALL INSTALL A TRANSCIEVER - FIBER OPTIC (SEE INTERCONNECT PLANS).

THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.

# THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH AND RADAR SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK. PROP. INTERCONNECT TO GREENE RD PROP. TRACER CABLE **HOBSON RD** (2#10) (1#6)

#### SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
93	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
3	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
146	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
73	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	RELOCATE RADAR DETECTOR SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

PROP RADAR DETECTION ZONES SHALL MATCH EXISTING RADAR DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

PROP. INTERCONNECT

- PROP TRACER

— EX. INTERCONNECT

TO IL RTE 53

EX. TRACER

TO WOODRIDGE DR

- CABLE

-EX. WIRELESS

INTERCONNECT

TO GREENE RD (TO BE REMOVED)

 $1 \times 5 \times 6 \times 7$ 

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 37".

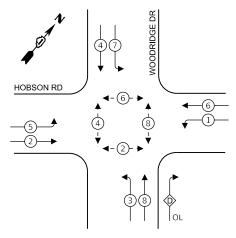
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MATCH THE EXISTING ADJACENT SYSTEM.

> **DUDOT ECON 37**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE STATE OF ILLINOIS PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5 **DEPARTMENT OF TRANSPORTATION** HOBSON RD AND DOUBLE EAGLE DR

**CABLE PLAN** 

SECTION COUNTY 19-DCCSS-04-TL DUPAGE 293 235 CONTRACT NO. 61H96



### **LEGEND:**

**◆ \* PROTECTED PHASE** 

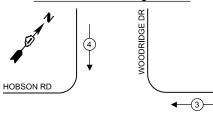
← - (\*)- - PROTECTED/PERMITTED PHASE

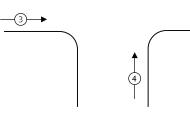
√- (\*)- ► PEDESTRIAN PHASE

### **RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP	PERMISSIVE	PROTECTED
LETTER	PHASE	PHASE
	0	

### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE





### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	71
PERMISSIVE ARROW	20	10	10	20
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
			TOTAL =	1026

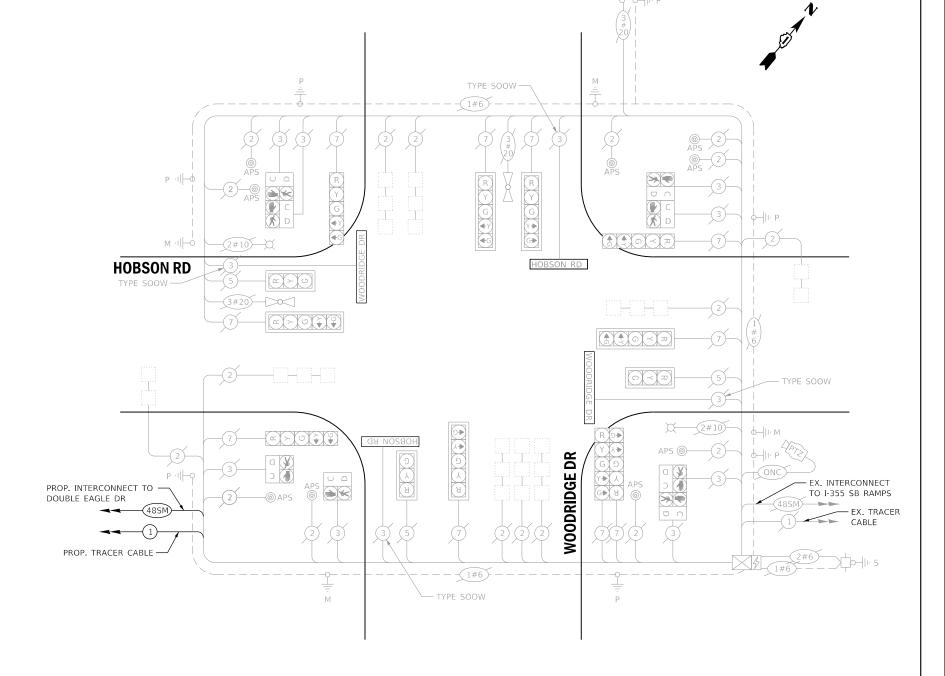
ENERGY COSTS TO:

### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK ACCOUNT NUMBER



### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

### CABLE PLAN

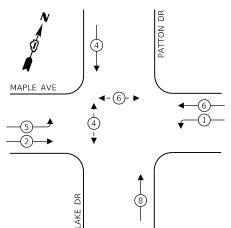
TRAFFIC SIGNAL BEING MODIFIED BY IDOT CONTRACT # 61H22 AND IDOT CONTRACT # 61G89.

### **DUDOT**



SER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
LOT SCALE = 40.0000 / in.	CHECKED - DW	REVISED -
LOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5 19-DCCSS-04-TL HOBSON RD AND WOODRIDGE DR
SHEET 12 OF 14 SHEETS STA.



#### **LEGEND:**

- **◆ \* PROTECTED PHASE**
- ← -(\*)- PROTECTED/PERMITTED PHASE
- √
  →
  PEDESTRIAN PHASE

  Output

  Description

  PEDESTRIAN

  PHASE

  Output

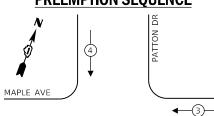
  Description

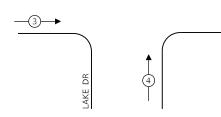
  PEDESTRIAN

  PHASE

  PHASE

#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE





TRAFFIC SIGNAL							
<b>ELECTRICAL SERVICE REQUIREMENTS</b>							

	NO. OF	LED	%	TOTAL	
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE	
SIGNAL (RED)	10	11	50	55	
(YELLOW)	10	20	5	10	
(GREEN)	10	12	45	54	
PERMISSIVE ARROW	8	10	10	8	
PED. SIGNAL	4	20	100	80	
CONTROLLER	1	100	100	100	
UPS	1	25	100	25	
VIDEO SYSTEM	1	150	100	150	
BLANK-OUT SIGN	-	25	5	-	
FLASHER	-	-	50	-	
STREET NAME SIGN	-	120	50	-	
LUMINAIRE	2	250	50	250	
PTZ CAMERA	-	75	100	-	
		-	TOTAL =	732	

ENERGY COSTS TO:

#### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK

### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

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

V

2#10

**CABLE PLAN** 

1#6

TRAFFIC SIGNAL BEING MODIFIED BY IDOT CONTRACT # 61H22.

SER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
OT SCALE = 40.0000 / in.	CHECKED - DW	REVISED -
OT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**MAPLE AVE** 

EX. INTERCONNECT

TO BURR OAK RD

EX. TRACER CABLE —

LAKE DR

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5 MAPLE AVE AND PATTON DR/LAKE DR
SHEET 13 OF 14 SHEETS STA.

SECTION COUNTY 19-DCCSS-04-TL DUPAGE 293 237 CONTRACT NO. 61H96

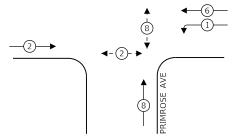
**DUDOT** 

- PROP. TRACER

CABLE

PROP. INTERCONNECT TO PRIMROSE AVE

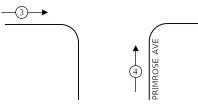
# **EXISTING CONTROLLER SEQUENCE** MAPLE AVE



#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE







#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

NO. OF	LED	%	TOTAL	
LAMPS	WATTAGE	OPERATION	WATTAGE	
7	11	50	39	
7	20	5	7	
7	12	45	38	
4	10	10	4	
4	20	100	80	
1	100	100	100	
1	25	100	25	
-	150	100	-	
-	25	5	-	
-	=	50	=	
-	120	50	=	
2	250	50	250	
-	75	100	=	
		TOTAL =	543	
	TAMPS 7 7 7 4 4 1 1	LAMPS         WATTAGE           7         11           7         20           7         12           4         10           4         20           1         100           1         25           -         25           -         120           2         250	LAMPS         WATTAGE         OPERATION           7         11         50           7         20         5           7         12         45           4         10         10           4         20         100           1         100         100           -         150         100           -         25         5           -         -         50           -         120         50           2         250         50           -         75         100	

ENERGY COSTS TO:

#### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

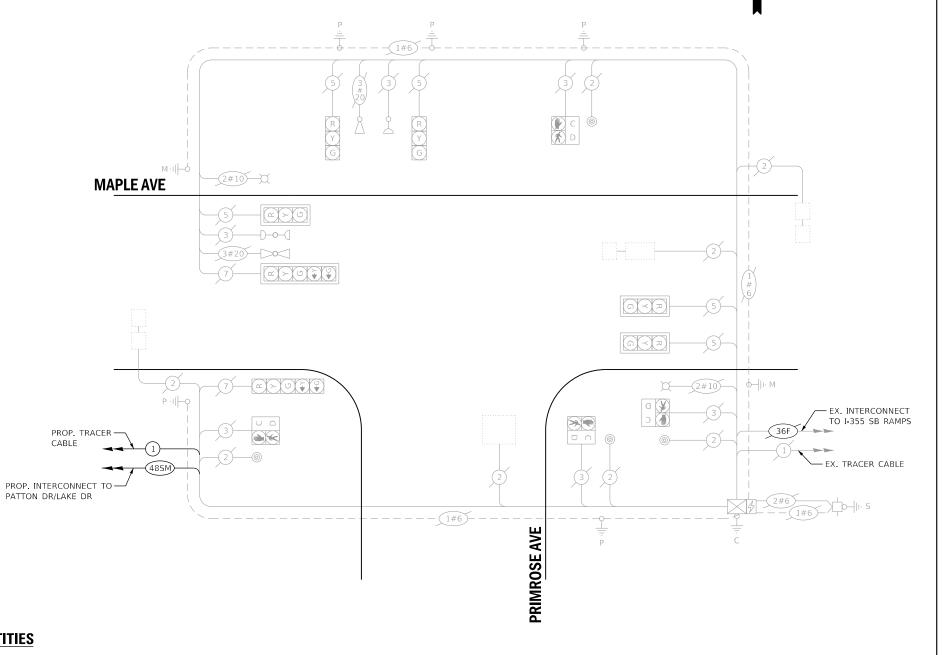
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK

#### **LEGEND:**

**◆ \* PROTECTED PHASE** 

← - (\*)- - PROTECTED/PERMITTED PHASE

**◄- \*- >** PEDESTRIAN PHASE



#### **SCHEDULE OF QUANTITIES**

QUANTITY UNIT MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL

CABLE PLAN (NOT TO SCALE)

TRAFFIC SIGNAL BEING MODIFIED BY IDOT CONTRACT # 61H22.

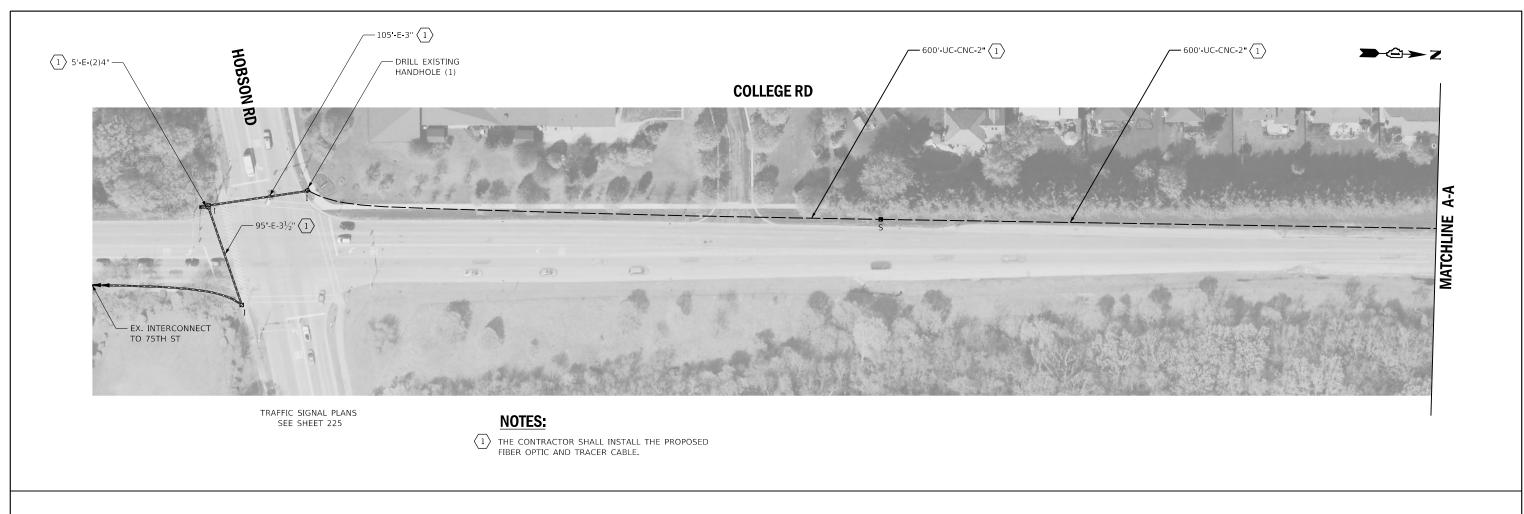
#### **DUDOT**



JSER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 5 MAPLE AVE AND PRIMROSE AVE
SHEET 14 OF 14 SHEETS STA.

SECTION COUNTY 19-DCCSS-04-TL DUPAGE 293 238 CONTRACT NO. 61H96





USER NAME = rgeorgescu	DESIGNED - DW
	DRAWN - RG
PLOT SCALE = 100.0000 / in.	CHECKED - ZH
PLOT DATE = 6/13/2022	DATE -

REVISED

REVISED

REVISED

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50

 PROPOSED INTERCONNECT PLAN - AREA 5
 F.A. RTE.
 SECTION

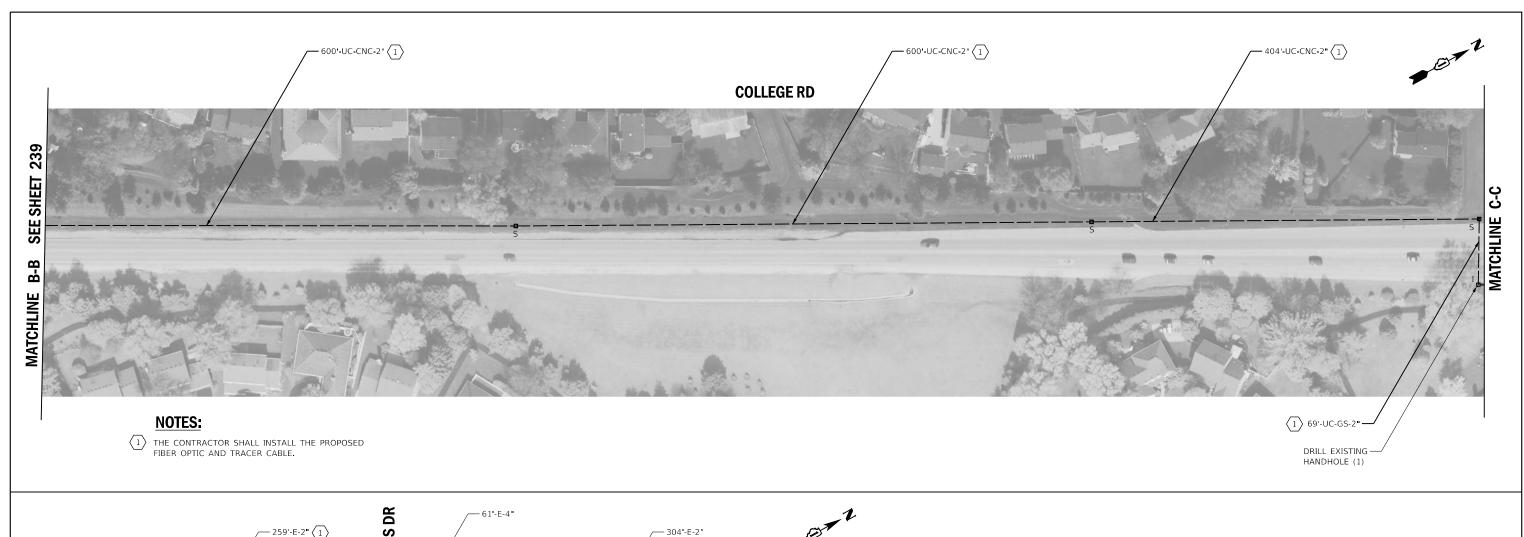
 LOCATION A - COLLEGE RD
 VAR.
 19-DCCSS-04-TL

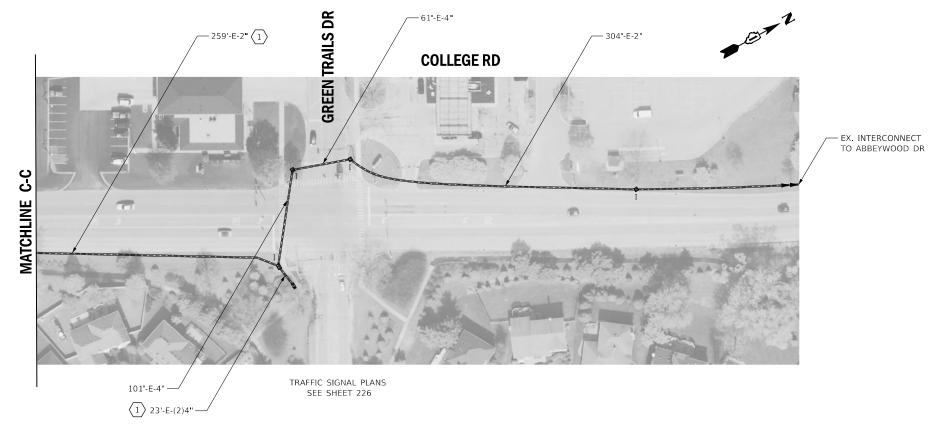
 SHEET
 1
 OF 12
 SHEETS
 STA.
 TO STA.
 IRLINOIS FE

 
 F.A. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEET NO.

 VAR.
 19-DCCSS-04-TL
 DUPAGE
 293
 239

 CONTRACT NO.
 61H96





	_	_	 1
	IJ		

USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

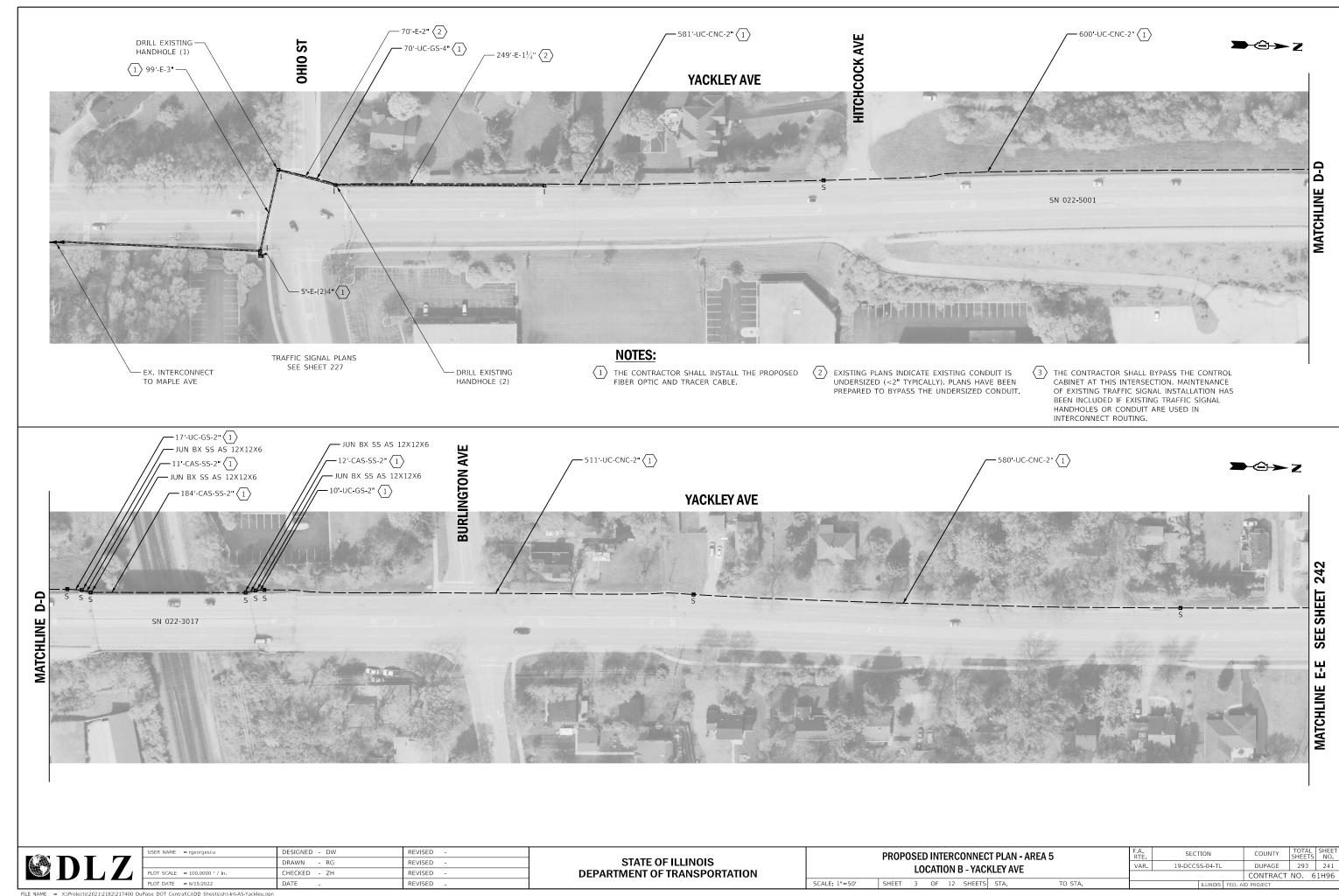
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN - AREA 5
LOCATION A - COLLEGE RD

SHEET 2 OF 12 SHEETS STA. TO STA.

SCALE: 1"=50'

F.A. SECTION COUNTY TOTAL SHEETS NO.
VAR. 19-DCCSS-04-TL DUPAGE 293 240
CONTRACT NO. 61H96







THE CONTRACTOR SHALL INSTALL THE PROPOSED (2) EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (<2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.

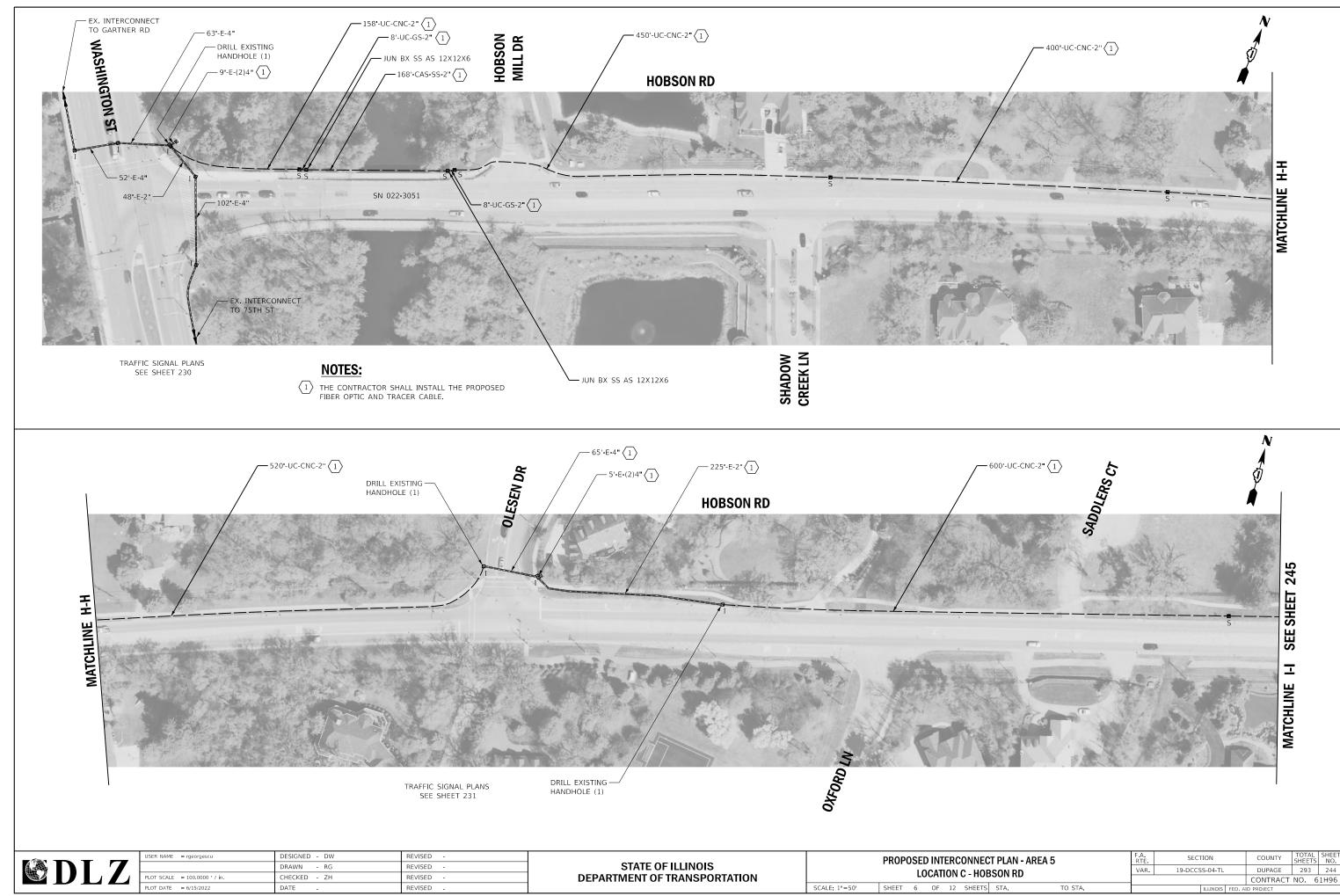
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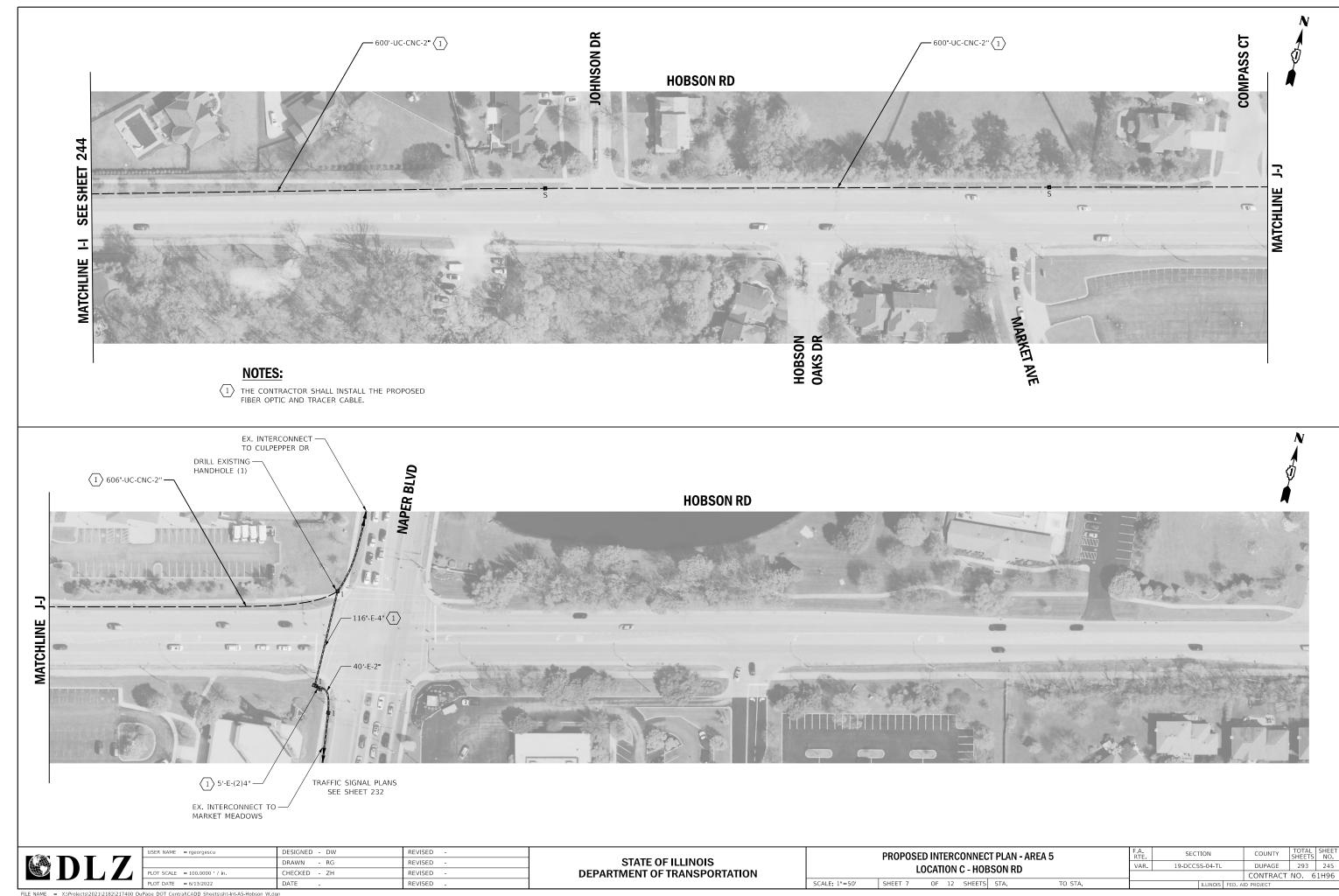
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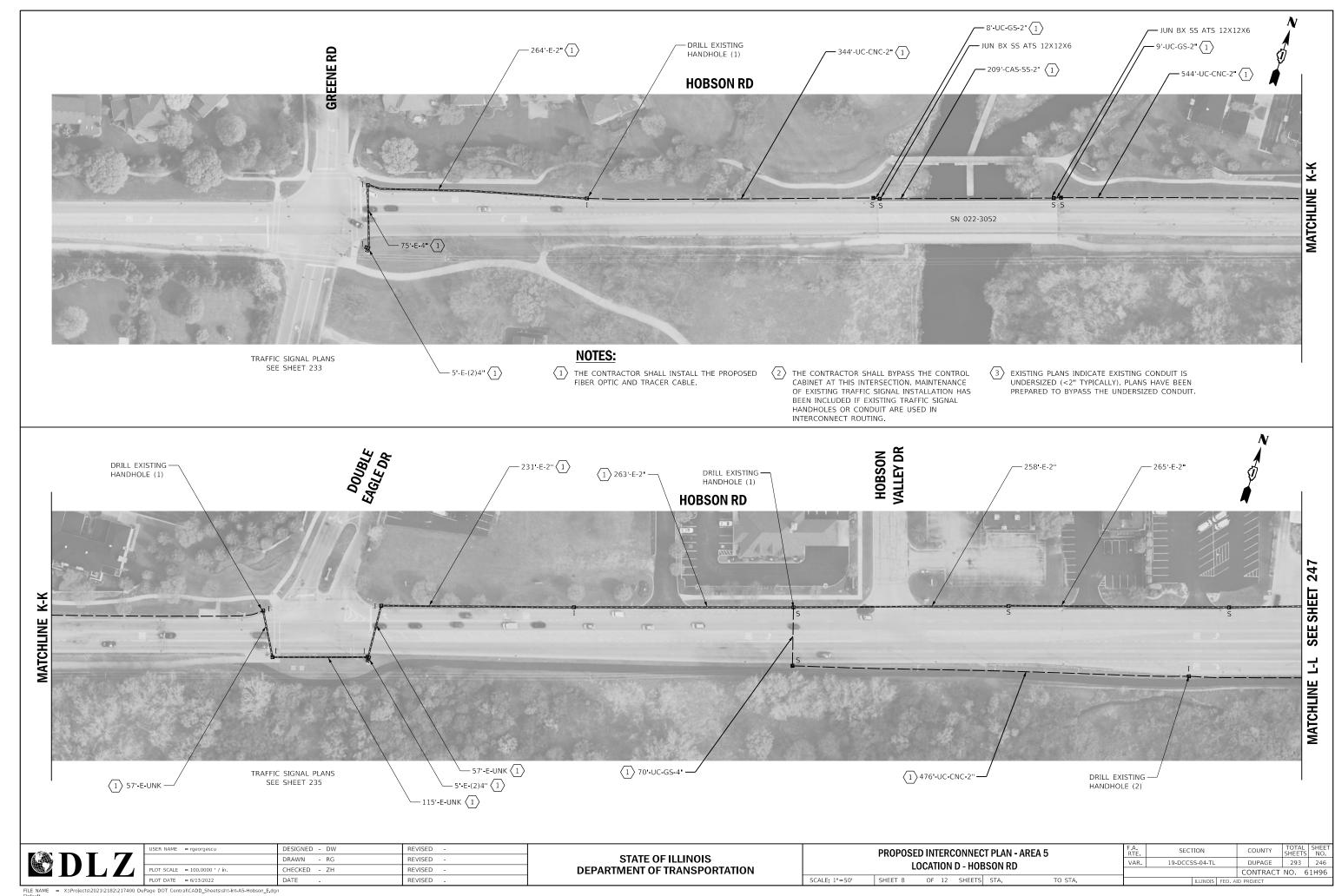
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

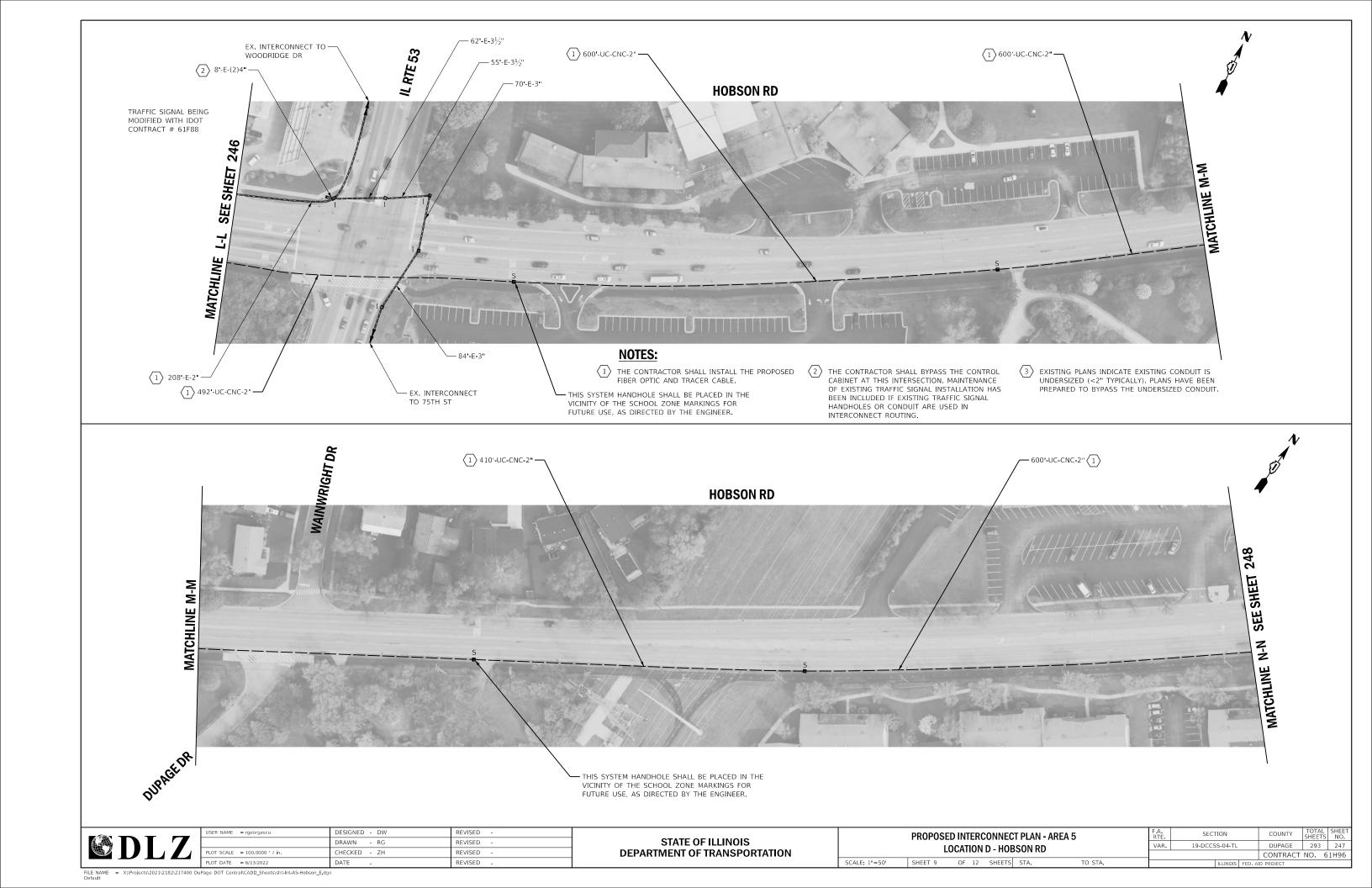
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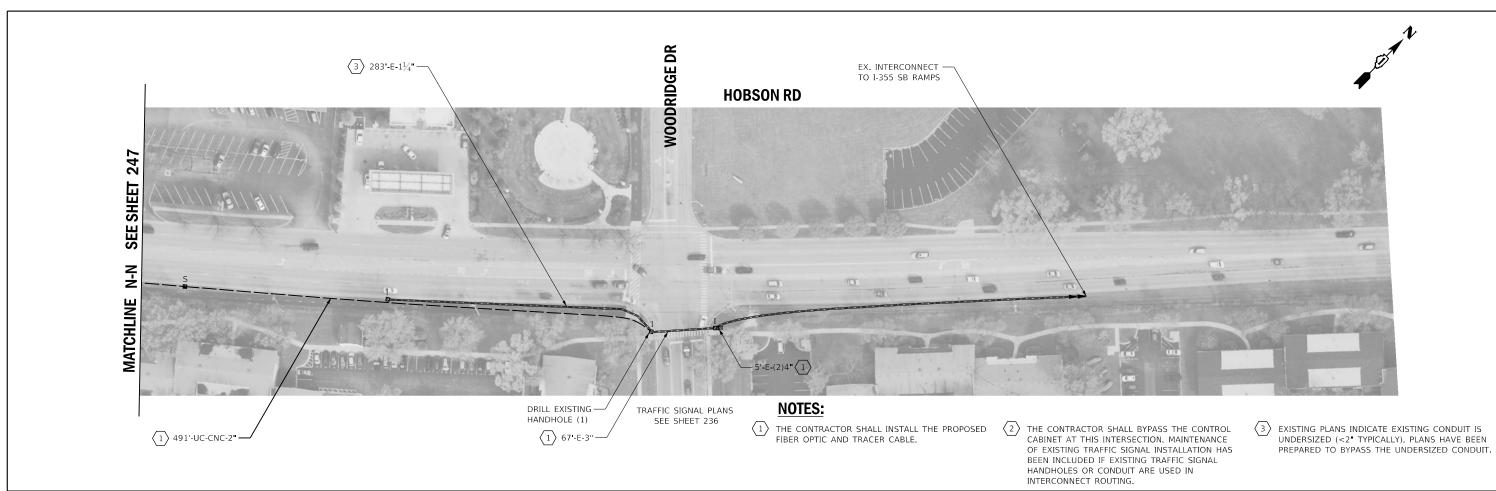
	PROPOSED INTERCONNECT PLAN - AREA 5						F.A. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.	
LOCATION B - YACKLEY AVE					VAR.	19-DCC	SS-04-TL		DUPAGE	293	243			
	EUGATION D - TACKELT AVE									CONTRACT	NO.	51H96		
	SHEET	5	OF	12	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		











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 - ZH
 REVISED

 PLOT DATE
 = 6/13/2022
 DATE
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

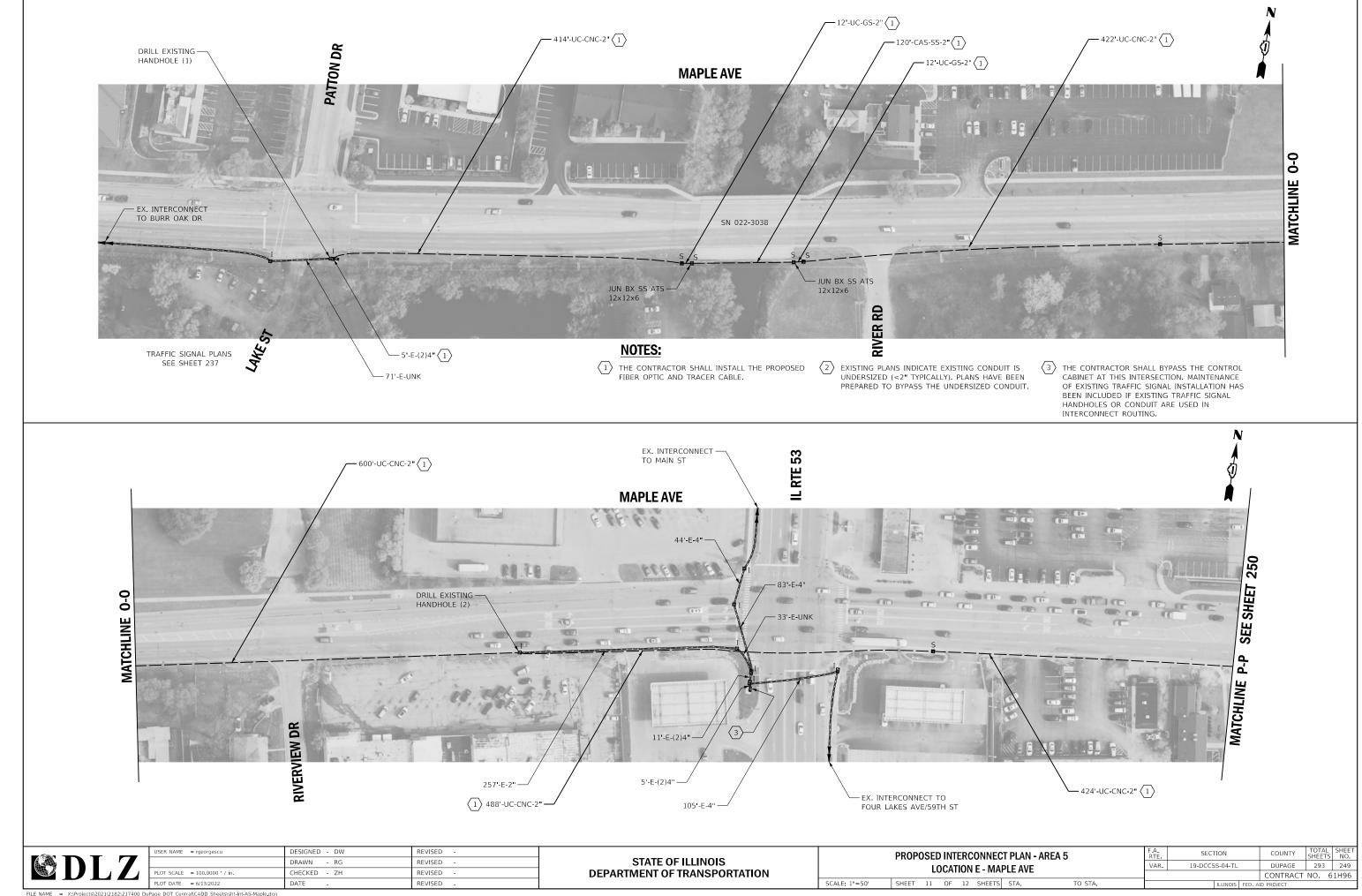
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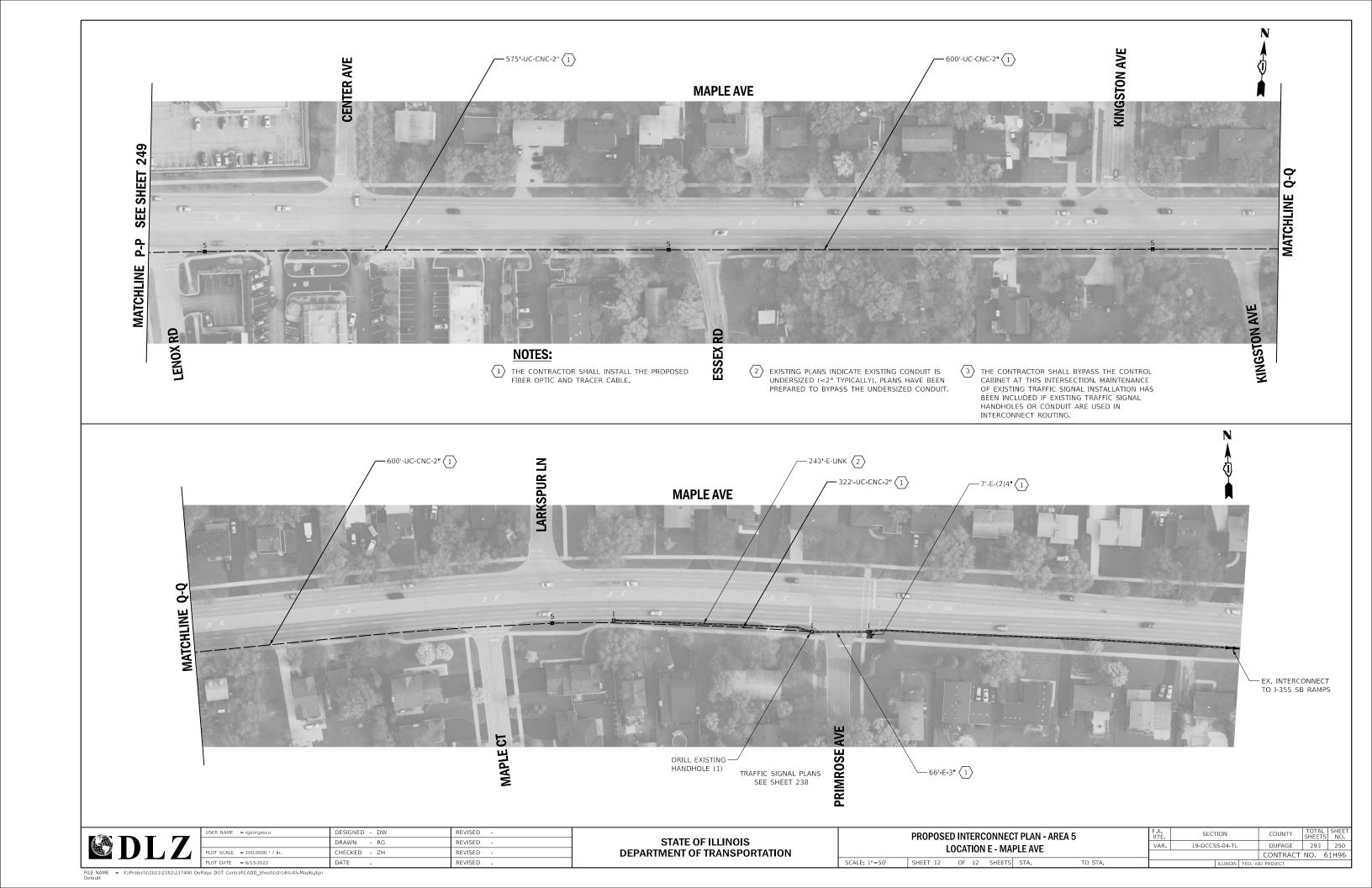
 
 F.A. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEET NO.

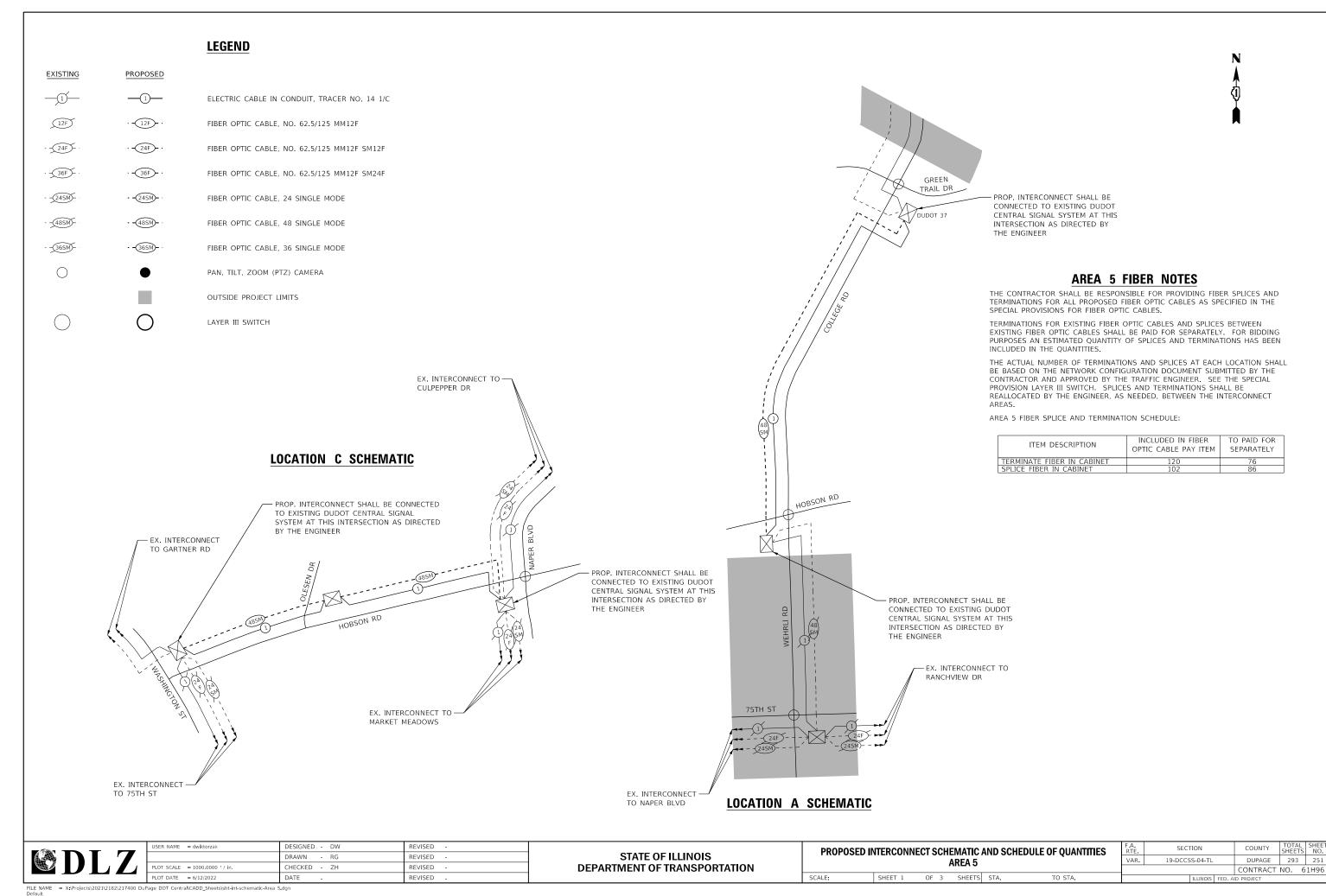
 VAR.
 19-DCCSS-04-TL
 DUPAGE
 293
 248

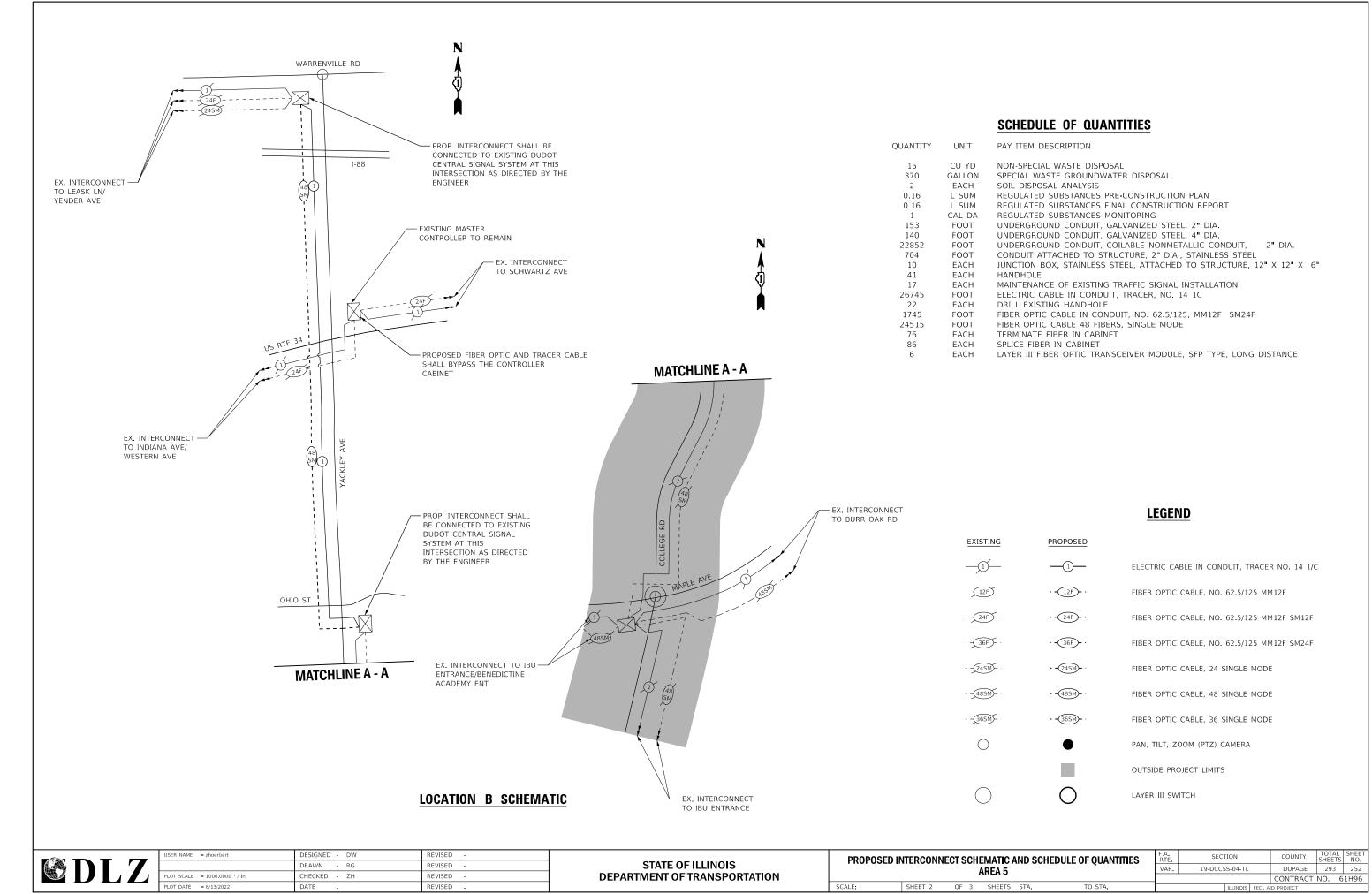
 CONTRACT
 NO.
 61H96

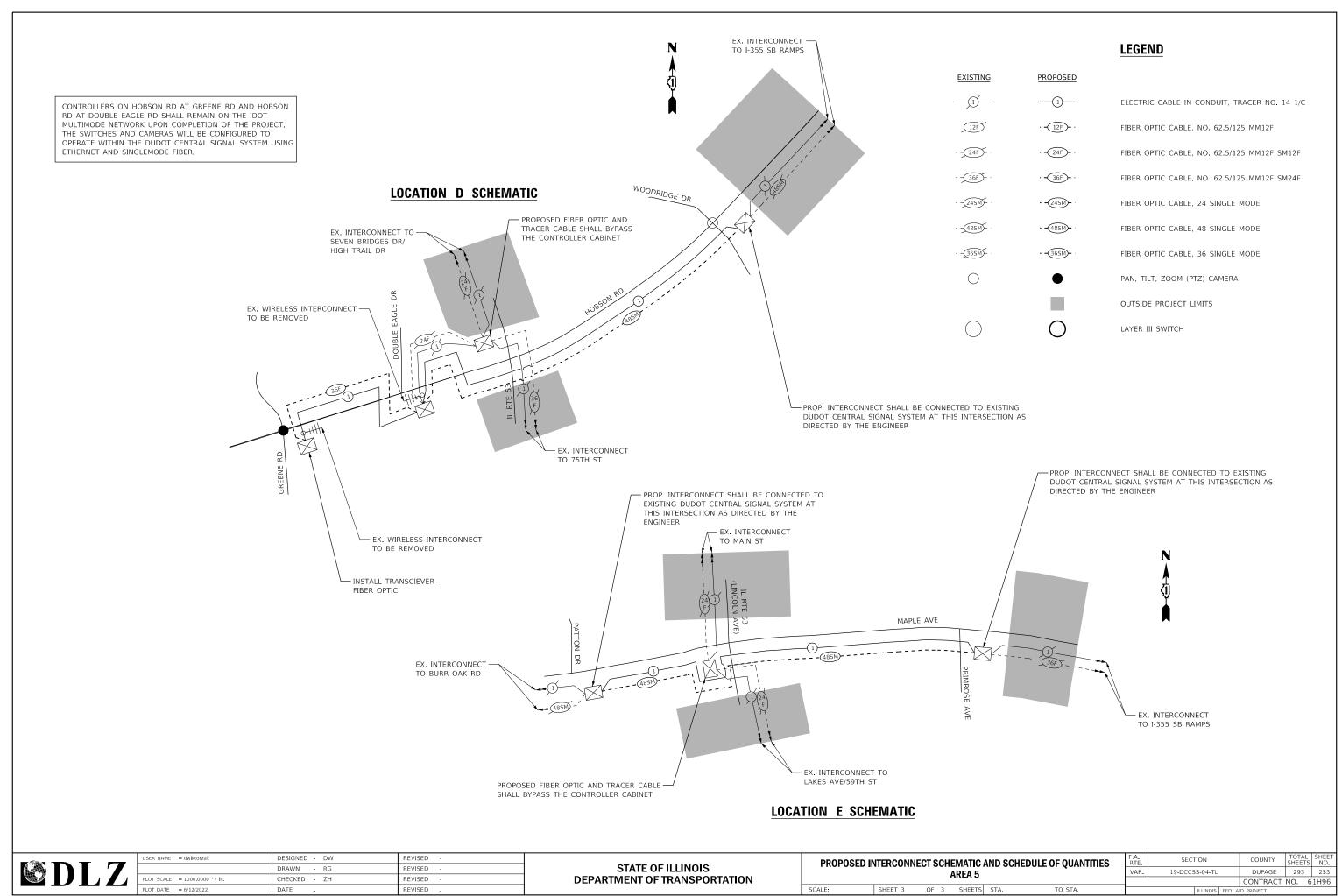
 ILLINOIS
 FED. AID PROJECT

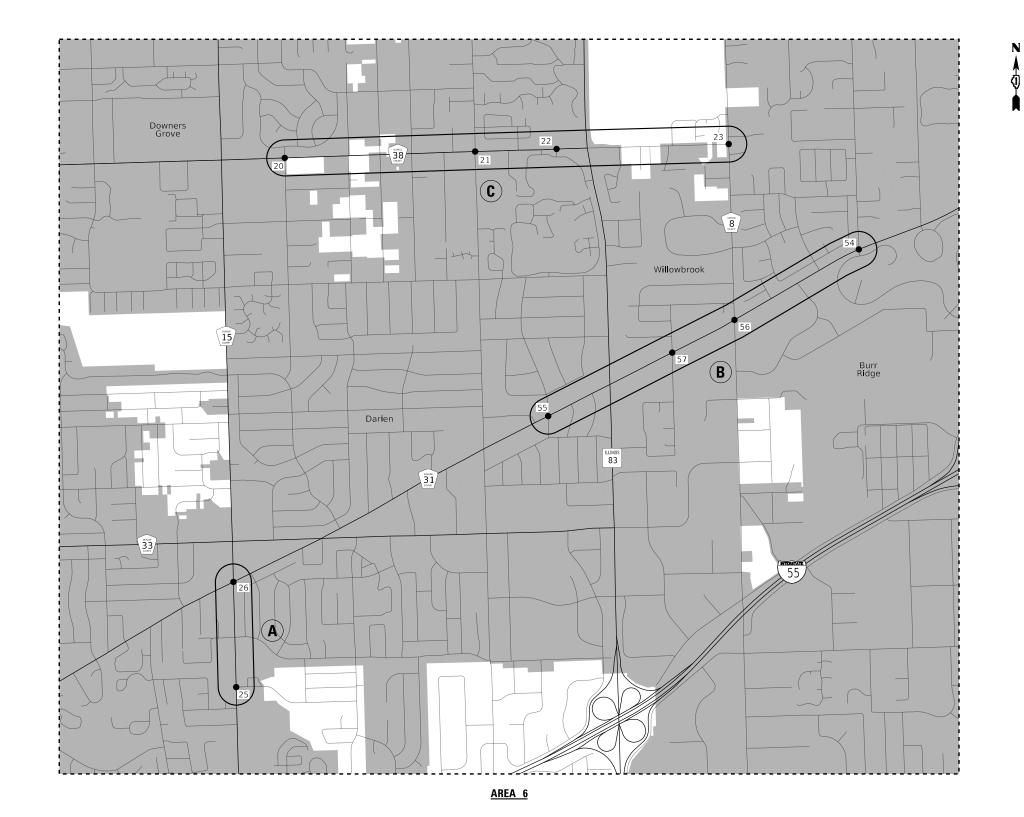












<u>LEGEND</u>





PROPOSED INTERCONNECT AREA - SEE INTERCONNECT PLANS

PROPOSED SIGNAL IMPROVEMENT CORRIDOR

PROPOSED SIGNAL IMPROVEMENT LOCATION

#### INTERSECTION PLANS

<u>#</u>	LOCATION	SHEETS
25	CASS AVE AND ASHBROOK CT / CONCORD PL	256 - 257
26	CASS AVE AND PLAINFIELD RD	258 - 260
55	PLAINFIELD RD AND HIGH RD	261
57	PLAINFIELD RD AND WILLOWBROOK T.C./ WILLOWS OF WILLOWBROOK	262
56	PLAINFIELD RD AND MADISON DR	263 - 265
54	PLAINFIELD RD AND FIELDSTONE DR / GARFIELD AVE	266
20	63RD ST AND RIDGE RD	267
21	63RD ST AND CLARENDON HILLS RD	268 - 269
22	63RD ST AND AMERICANA DR / HINSDALE LAKE COMMONS ENT	270
23	63RD ST AND MADISON ST	271 - 272

#### INTERCONNECT PLANS

	LOCATION	SHEETS
A	CASS AVE	273
$\bigcirc$ B	PLAINFIELD RD	274 - 275
(C)	63RD ST	276 - 279



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 2000.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

SCALE:

TF	RAFFIC SIG	NAL MOD			N - AREA 6	F.A. RTE VAR	SECTION 19-DCCSS-04-TL	COUNTY	SHEETS	
		711127102	.00/1110	* 1717 (1				CONTRACT	NO. 6	51H96
	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FE	D. AID PROJECT		

#### **AREA 6 SIGNAL IMPROVEMENTS**

					ND	PL	AINFIEL	D RD A	ND	(	63RD :	ST AND	)
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL	ASHBROOK CT/CONCORD PL	PLAINFIELD RD	нісн RD	WILLOWBROOK TC/WILLOWS OF WILLOWBROOK	MADISON DR	FIELDSTONE DR/GARFIELD AVE	RIDGE RD	CLARENDON HILLS RD	AMERICANA DR/HINSDALE LAKE COMMONS ENT	MADISON ST
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	10	1	1	1	1	1	1	1	1	1	1
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	269	39				55	80				95
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	269	39				55	80				95
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1					1					
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4411	19	1048			3082	120				142
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	1				1	1				1
89502380	REMOVE EXISTING HANDHOLE	EACH	2					2					
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	185	19				35	60				71
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	591	80				188			179		144
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1						1				
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	4	1				1			1		1
X1400216	LAYER II (DATALINK) SWITCH	EACH	8	1			1	1	1	1	1	1	1
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	7	1				1	1	1	1	1	1
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	3	1				1					1
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	6	1					1	1	1	1	1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1					1					
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	4	1				1	1				1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	8	1	1		1		1	1	1	1	1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	2		1			1					
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	1						1				
												t	

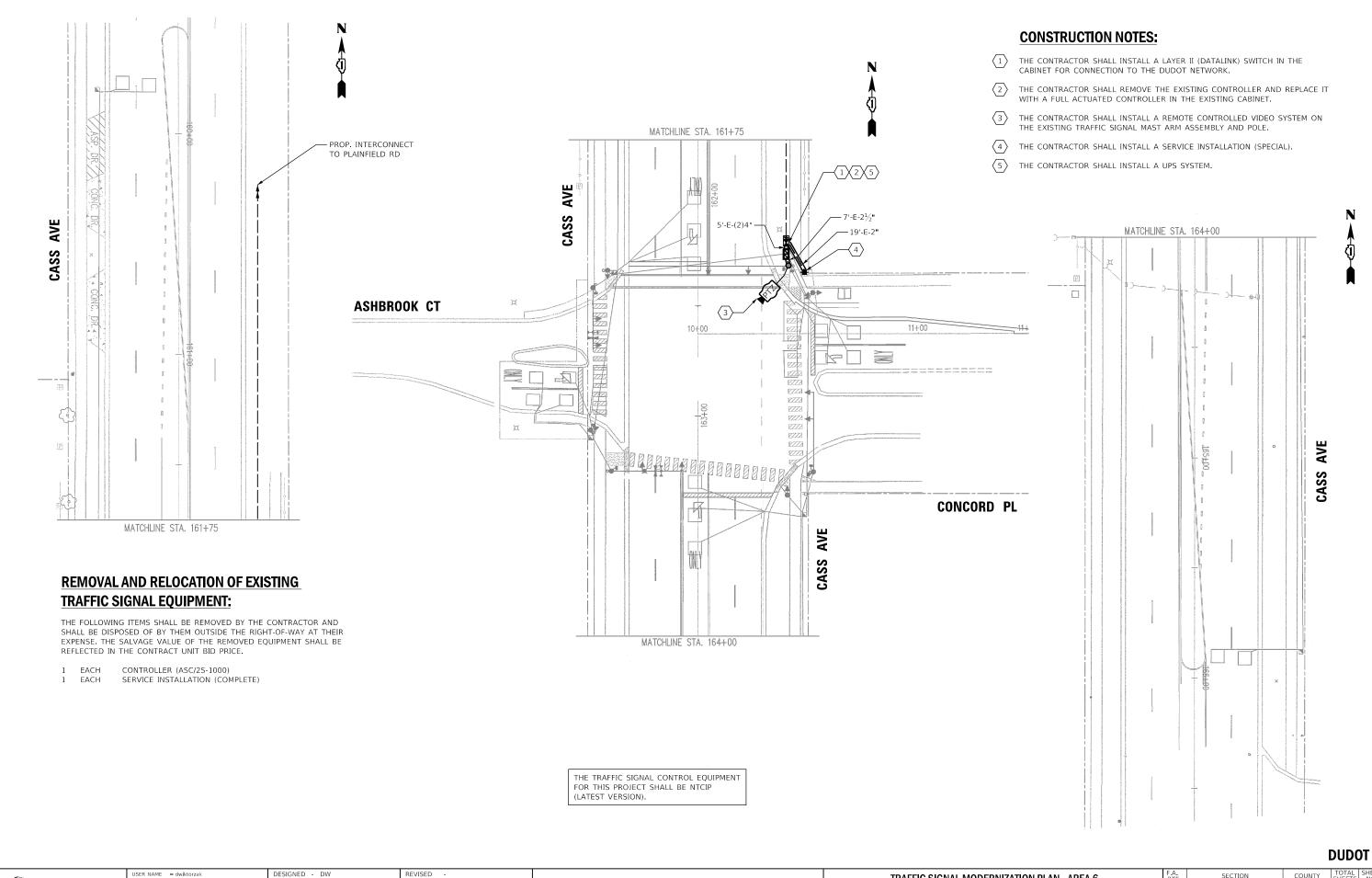


	USER NAME = zhoerbert	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

0.4			05.011					F.A. RTE	SEC	TION		COUNTY	TOTAL SHEETS	
SCHEDULE OF QUANTITIES						VAR.	19-DCC	SS-04-TL		DUPAGE	293	255		
												CONTRACT	NO.	51H96
SHEET 1	OF	1	SHEETS	STA.		TO STA.				ILLINOIS	FED. AI	ID PROJECT		



 PLOT DATE
 = 6/12/2022
 DATE

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 DATE

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TR	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 6								
	CASS AVE A	ND ASH	BROOK	CT/CON	CORD PL				
	CHEET 1	OF 17	CHEETC	CTA	TO CTA				

SCALE: 1"=20"

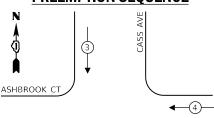
A. TE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
AR.	19-DCCS	S-04-TL		DUPAGE	293	256
				CONTRACT	NO. 6	51H96
		ILLINOIS	EED, A	ID PROJECT		

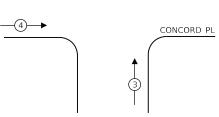
# ASHBROOK CT ASHBROOK CT ASHBROOK CT ASSBROOK CT ASSBR

#### **LEGEND:**

- **★** PROTECTED PHASE
- ← -(\*)- PROTECTED/PERMITTED PHASE
- √-(\*)- ► PEDESTRIAN PHASE
- ◆ OL OVERLA

# EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





# TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	70
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	250	50	125
PTZ CAMERA	1	75	100	75
		-	TOTAL =	656

ENERGY COSTS TO:

#### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: (630)-424-5704

COMPANY: COMED LOMBARD

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
39	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
39	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
19	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
19	FOOT	ROD AND CLEAN EXISTING CONDUIT
80	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

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

TO BE REMOVED -

DISCONNECTED

CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

**CONCORD PL** 

#### DUDOT



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**ASHBROOK CT** 

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6
CASS AVE AND ASHBROOK CT/CONCORD PL
SHEET 2 OF 17 SHEETS STA. TO STA.

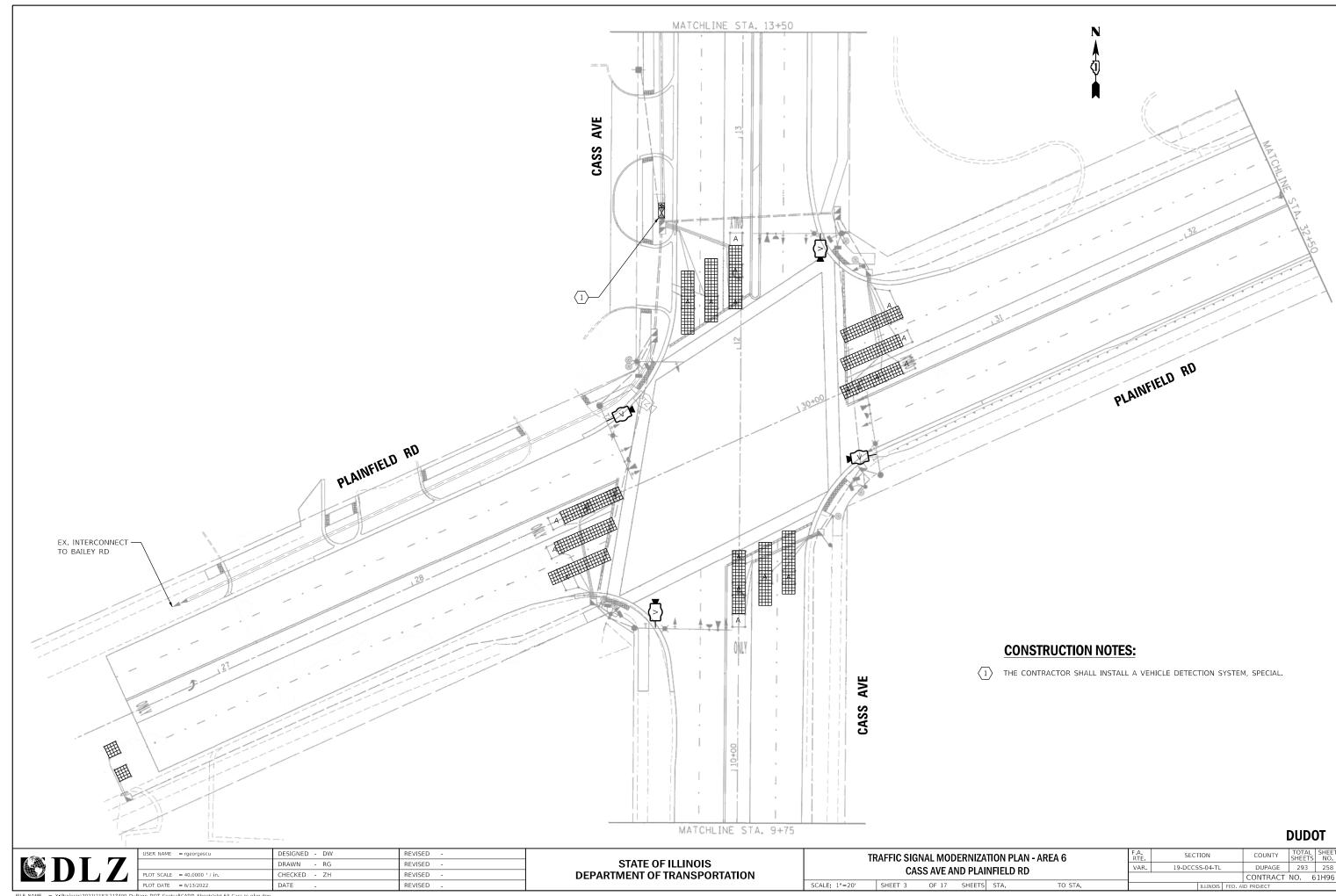
PROP. INTERCONNECT -TO PLAINFIELD RD

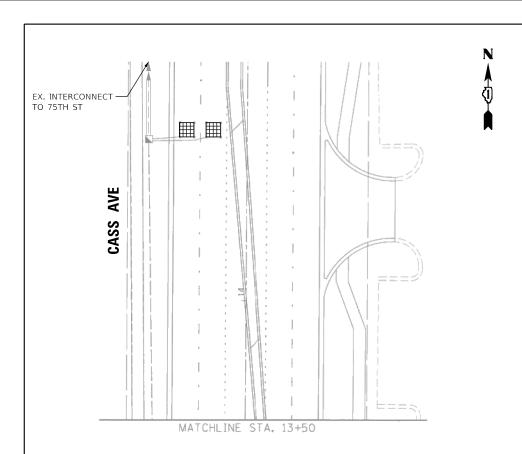
PROP. TRACER CABLE -

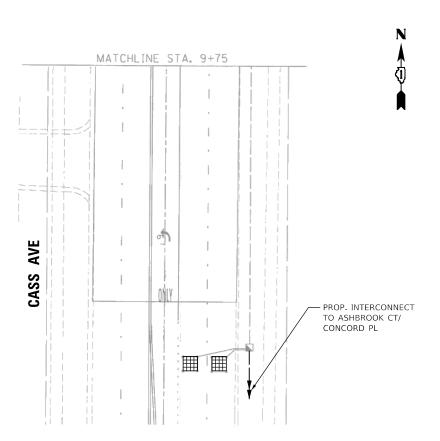
CASS AVE

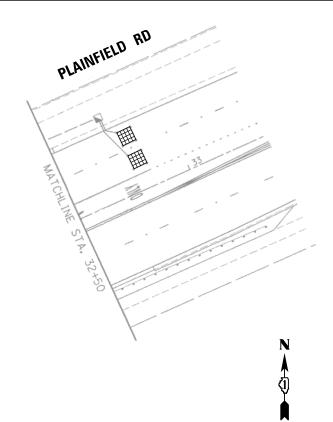
SECTION COUNTY TOTAL SHEETS NO.

R. 19-DCCSS-04-TL DUPAGE 293 257
CONTRACT NO. 61H96









DUDOT

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		DRAWN - RG	REVISED -
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	PLOT DATE = 6/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

 TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 6
 F.A. RTE.
 SECTION

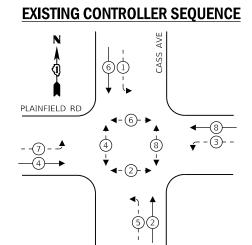
 CASS AVE AND PLAINFIELD RD
 VAR.
 19-DCCSS-04-TL

 SHEET 4
 OF 17
 SHEETS STA.
 TO STA.
 IILLINOIS FI

SECTION COUNTY TOTAL SHEETS NO.

R. 19-DCCSS-04-TL DUPAGE 293 259

CONTRACT NO. 61H96



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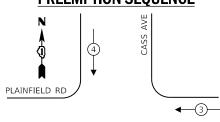
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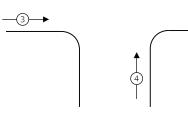
← -(\*)- - PROTECTED/PERMITTED PHASE

◆- \*- PEDESTRIAN PHASE

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# EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





# TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	·=·	50	
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	4	250	50	500.0
PTZ CAMERA	1	75	100	75.0
			TOTAL =	1306.4

ENERGY COSTS TO:

#### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

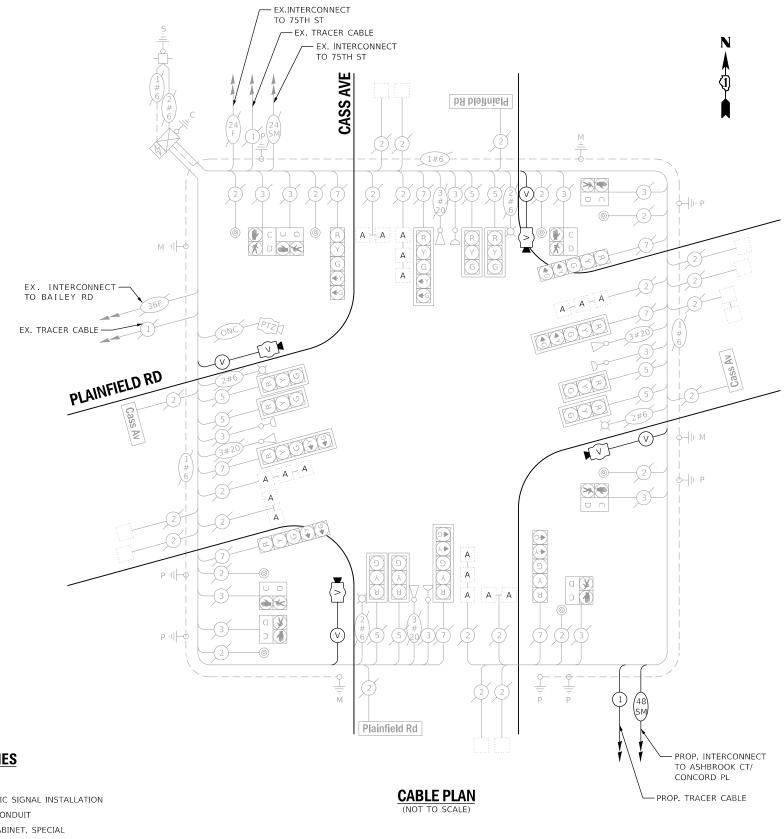
ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD

ACCOUNT NUMBER:

#### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1048	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



#### DUDOT



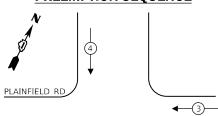
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	DRAWN - RG	REVISED -
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PLOT DATE = 6/12/2022	DATE -	REVISED -

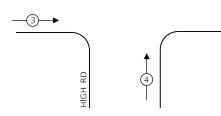
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

							•	
	,		,	VILITALITOT VEHICLE	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6				VAR.	19-DCCSS-04-TL	DUPAGE	293	
	CASS A	<u>VE AND PLA</u>	NFIELD R	D			CONTRACT	NO. 6
	CHEET E O	17 CHEETC	I CTA	TO CTA				

# **EXISTING CONTROLLER SEQUENCE** PLAINFIELD RD

#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE





#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	·=·	50	
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
			TOTAL =	702

ENERGY COSTS TO:

#### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK

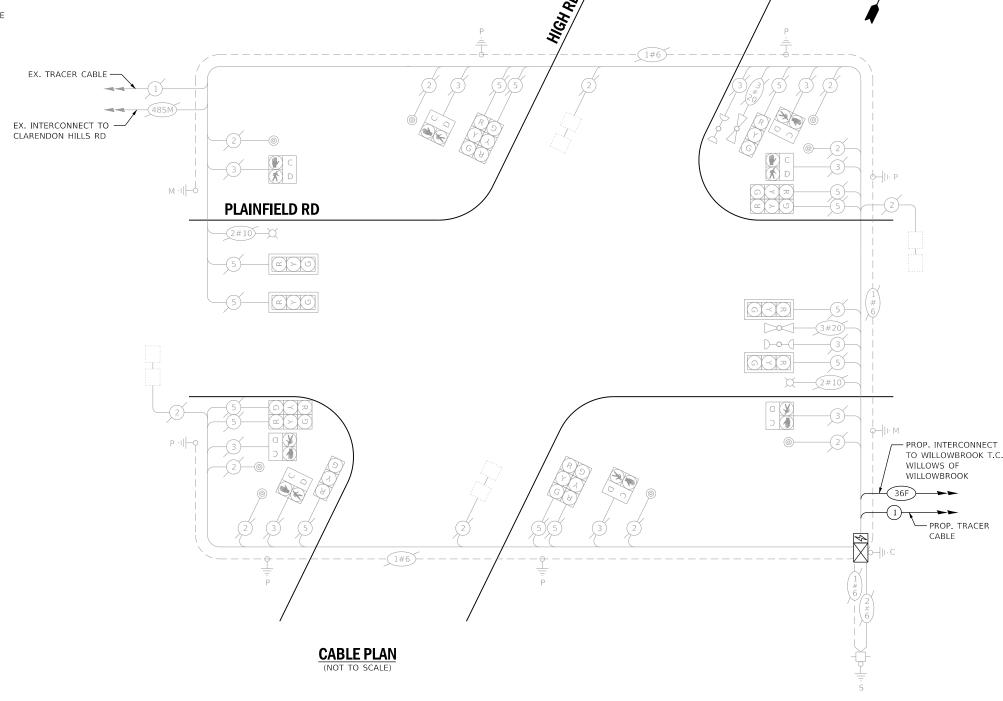
**LEGEND:** 

**◆**PROTECTED PHASE

← -(\*)- - PROTECTED/PERMITTED PHASE

◆-(\*)- PEDESTRIAN PHASE

OVERLAP OVERLAP



#### **SCHEDULE OF QUANTITIES**

UNIT ITEM DESCRIPTION QUANTITY

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

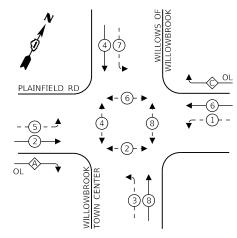
CONNECTED TO DUDOT CENTRAL SIGNAL SYSTEM UNDER CONTRACT #61H22

**DUDOT** 

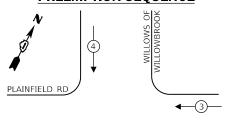


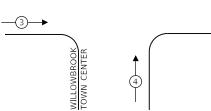
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	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION COUNTY PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6 19-DCCSS-04-TL DUPAGE 293 261 PLAINFIELD RD AND HIGH RD
6 OF 17 SHEETS STA. CONTRACT NO. 61H96



#### **EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**





#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

NO. OF	LED	%	TOTAL
LAMPS	WATTAGE	OPERATION	WATTAGE
16	11	50	88
16	20	5	16
16	12	45	86
24	10	10	24
8	20	100	160
1	100	100	100
1	25	100	25
1	150	100	150
-	25	5	-
-	-	50	-
-	120	50	=
3	250	50	38
-	75	100	=
		TOTAL =	687
	LAMPS  16  16  16  24  8  1  1	LAMPS WATTAGE  16 11  16 20  16 12  24 10  8 20  1 100  1 25  1 150  - 25  - 120  3 250	LAMPS         WATTAGE         OPERATION           16         11         50           16         20         5           16         12         45           24         10         10           8         20         100           1         100         100           1         25         100           1         150         100           -         25         5           -         -         50           -         120         50           3         250         50           -         75         100

ENERGY COSTS TO:

#### **VILLAGE OF WILLOWBROOK**

835 MIDWAY DR.

WILLOWBROOK, IL 60527

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

# PHONE: (708)-235-2692 COMPANY: COMED UNIVERSITY PARK

#### LEGEND:

**◆ \* PROTECTED PHASE** 

← - (\*)- - PROTECTED/PERMITTED PHASE

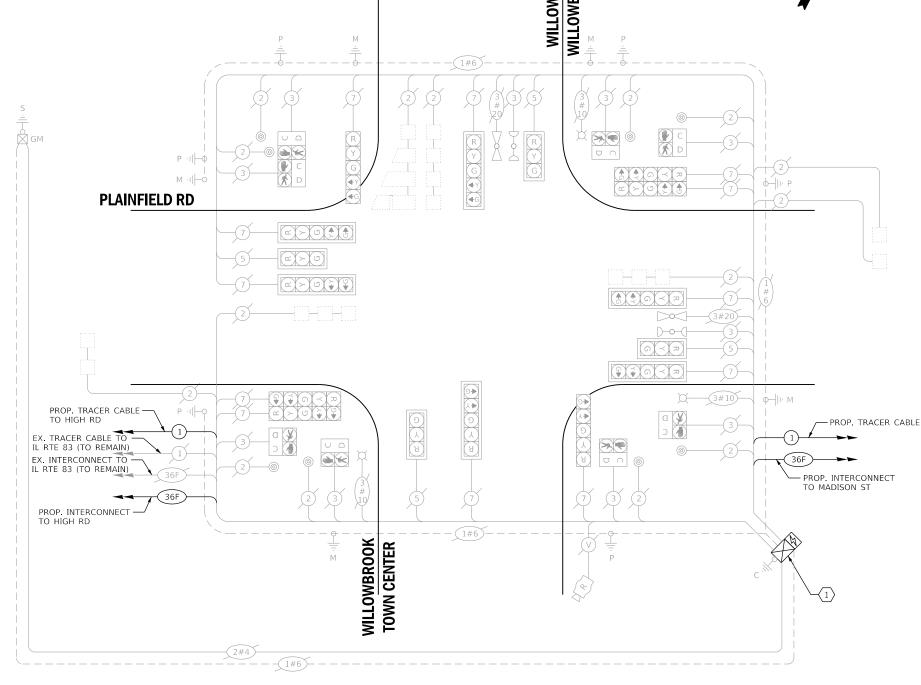
√-(\*)- ► PEDESTRIAN PHASE

#### **RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP <u>LETTER</u>		PERMISSIVE PHASE		PROTECTEI PHASE
A	=	2	+	3

#### **CONSTRUCTION NOTES:**

THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.



#### SCHEDULE OF QUANTITIES

QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH LAYER II (DATALINK) SWITCH FACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL EACH

**CABLE PLAN** 

THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

> THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 112".

**DUDOT ECON 112** 

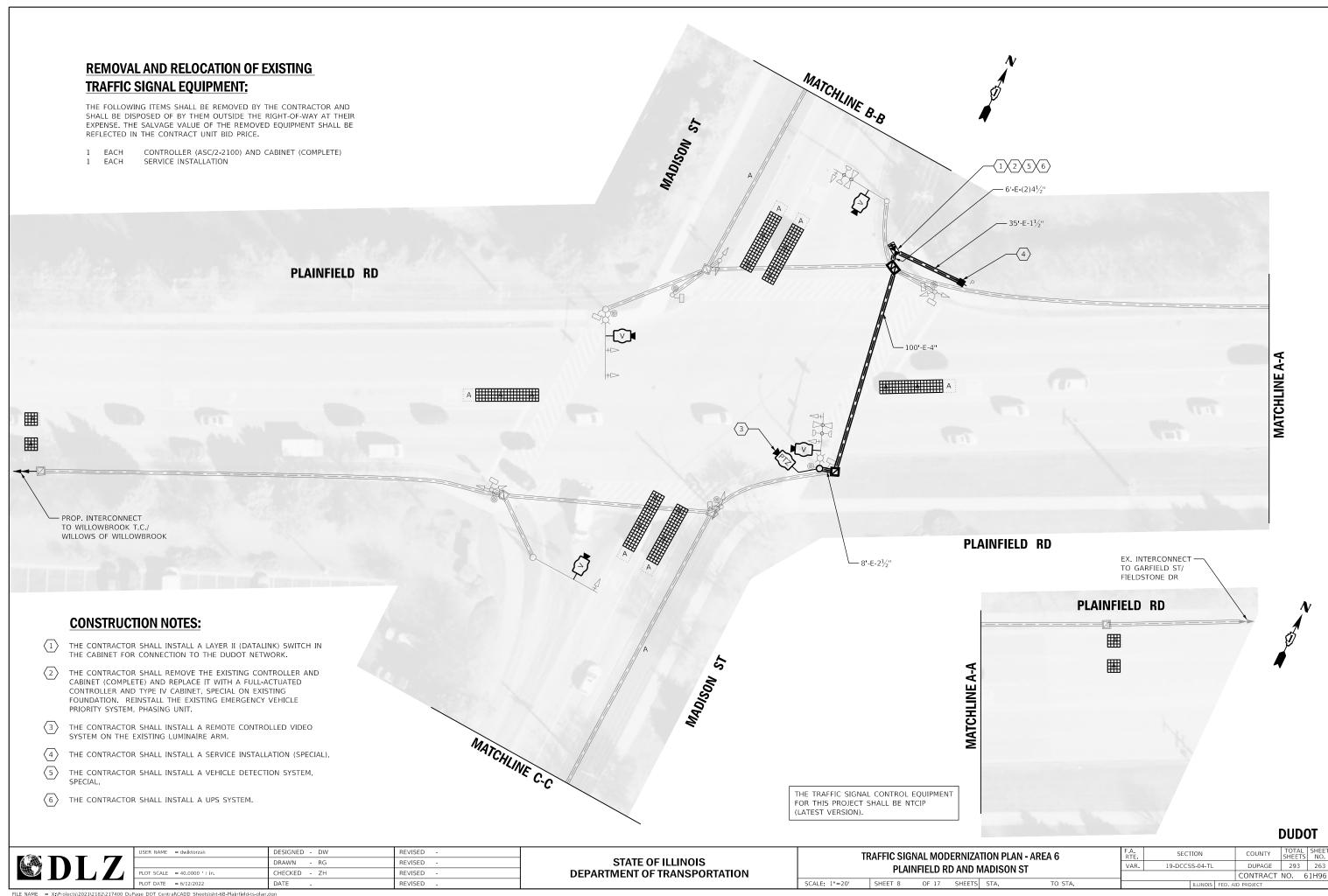


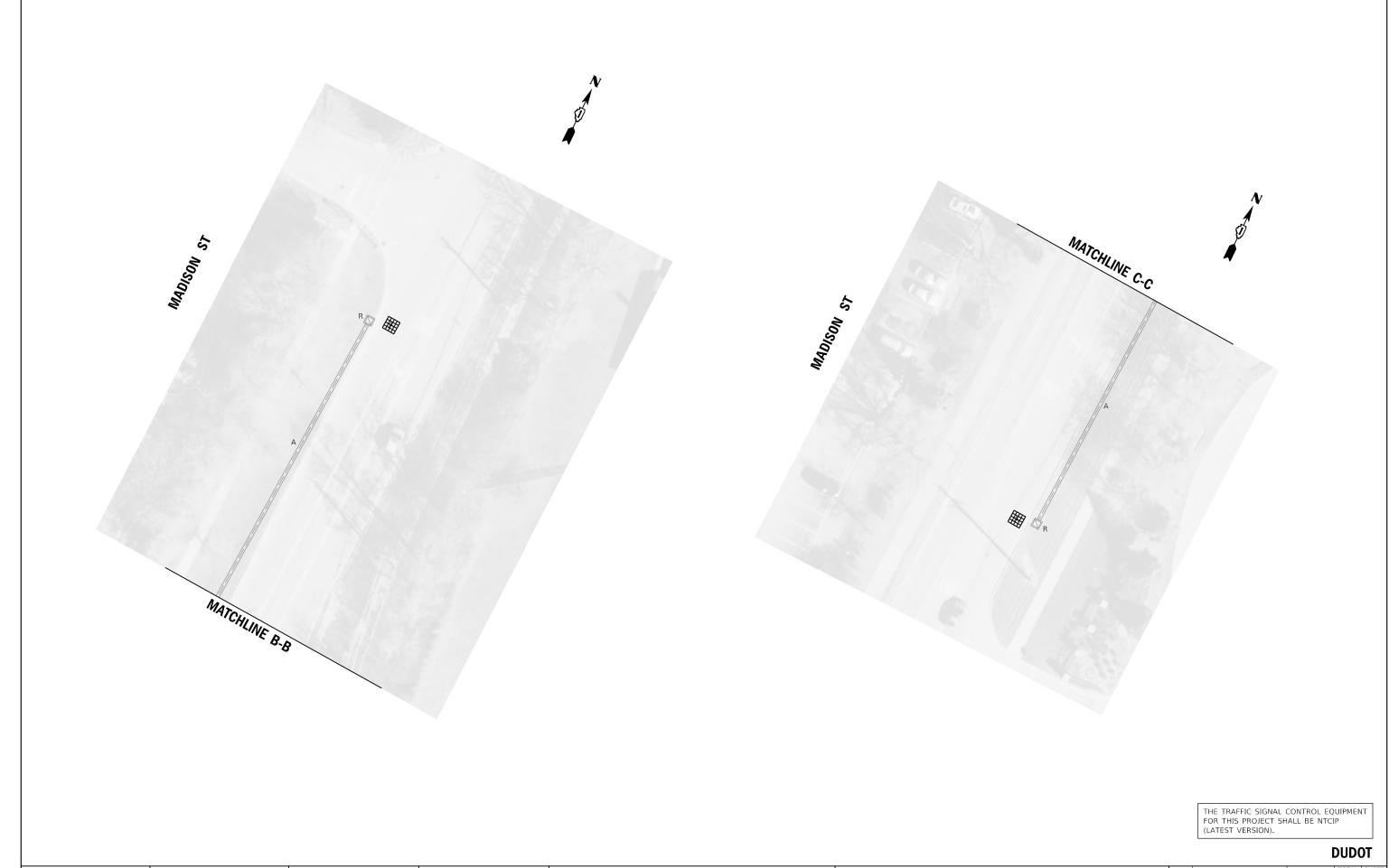
USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

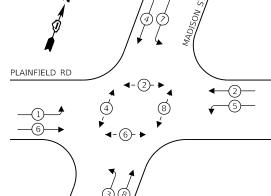
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6 PLAINFIELD RD AND WILLOWBROOK T.C. / WILLOWS OF WILLOWBROOK
LE: SHEET 7 OF 17 SHEETS STA. TO STA.

SECTION COUNTY 19-DCCSS-04-TL DUPAGE 293 262 CONTRACT NO. 61H96

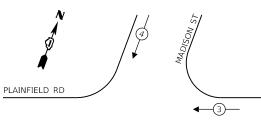


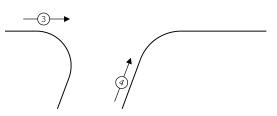


USER NAME = duiktorzak DESIGNED - DW REVISED - DRAWN - RG REVISED - DRAW



#### **EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**





#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	=
STREET NAME SIGN	-	120	50	=
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
			TOTAL =	793

ENERGY COSTS TO:

#### **DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

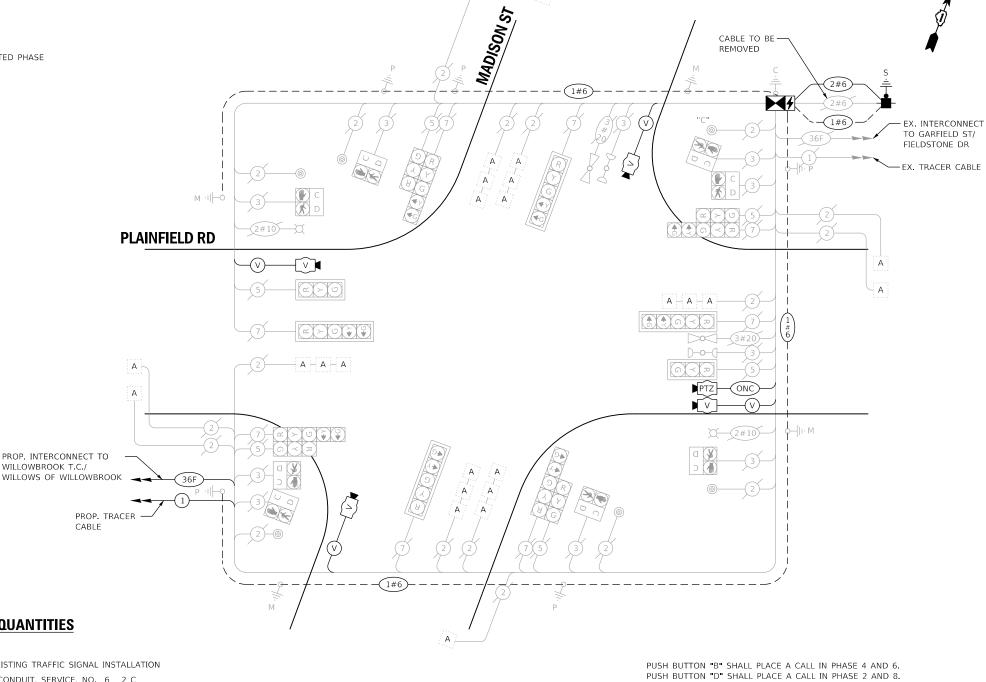
PHONE: (708)-235-2692 COMPANY: COMED UNIVERSITY PARK ACCOUNT NUMBER

#### **LEGEND:**

**◆** PROTECTED PHASE

← -(\*)- - PROTECTED/PERMITTED PHASE

PEDESTRIAN PHASE



#### QUANTITY UNIT EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION 55 FOOT ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C 55 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C EACH RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT 3082 FOOT REMOVE ELECTRIC CABLE FROM CONDUIT EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH REMOVE EXISTING HANDHOLE 35 ROD AND CLEAN EXISTING CONDUIT FOOT 188 FOOT OUTDOOR RATED NETWORK CABLE EACH REMOTE CONTROLLED VIDEO SYSTEM

FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL

**SCHEDULE OF QUANTITIES** 

LAYER II (DATALINK) SWITCH

SERVICE INSTALLATION (SPECIAL)

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

VEHICLE DETECTION SYSTEM, SPECIAL

**CABLE PLAN** 

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

**DUDOT** 



DESIGNED - ZH REVISED JSER NAME = dwiktorzak DRAWN - RG REVISED CHECKED - DW REVISED REVISED PLOT DATE = 6/12/2022

FACH

EACH

EACH

EACH

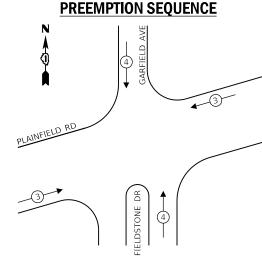
EACH

EACH

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6 PLAINFIELD RD AND MADISON DR ET 10 OF 17 SHEETS STA.

SECTION COUNTY 19-DCCSS-04-TL DUPAGE 293 265 CONTRACT NO. 61H96

## **EXISTING EMERGENCY VEHICLE**



#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
			TOTAL =	662

ENERGY COSTS TO:

#### **DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692

COMPANY: COMED UNIVERSITY PARK

#### LEGEND:

**◆ (\*)** PROTECTED PHASE

← -(\*)- - PROTECTED/PERMITTED PHASE

√-(\*)- ► PEDESTRIAN PHASE

◆ OL OVERLAP

#### REMOVAL AND RELOCATION OF **EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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 UNIT BID PRICE.

CONTROLLER (ASC/2S-1000)

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

MASTER CONTROLLER (ASC/2M-1000)

EX. INTERCONNECT · TO MADISON ST

EX. TRACER CABLE -

#### **CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO
- THE CONTRACTOR SHALL INSTALL A NEW SERVICE
- THE CONTRACTOR SHALL REMOVE AND REPLACE ANCHOR
- AND INSTALL THE PROPOSED CABLE IN THE EXISTING
- THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

- THE DUDOT NETWORK.
- THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- INSTALLATION, GROUND MOUNTED, METERED ON EXISTING FOUNDATION.
- BOLTS.
- THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNII	ITEM DESCRIPTION	1 \
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	1
80	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	` \
80	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6	1C
120	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT	
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	
60	FOOT	ROD AND CLEAN EXISTING CONDUIT	
1	EACH	SERVICE INSTALLATION, GROUND MOUNTED, METERED	
1	EACH	LAYER II (DATALINK) SWITCH	
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	
1	EACH	REMOVE AND REPLACE ANCHOR BOLTS	

**CABLE PLAN** 

FIELDSTONE DR

GARFIELD AVE

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

> THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NCTIP (LATEST VERSION).

TO BE DISCONNECTED

CABLE TO BE-

REMOVED

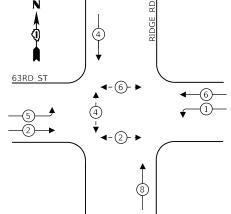
**DUDOT** 



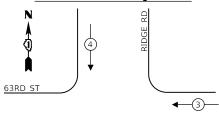
USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

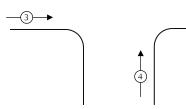
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6 PLAINFIELD RD AND FIELDSTONE DR/GARFIELD AVE
SHEET 11 OF 17 SHEETS STA. TO ST

SECTION COUNTY 19-DCCSS-04-TL DUPAGE 293 266 CONTRACT NO. 61H96



#### **EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**





#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	12	11	50	66
	(YELLOW)	12	20	5	12
	(GREEN)	12	12	45	65
PERMISSI	VE ARROW	8	10	10	8
PED. SIG	NAL	6	20	100	120
CONTROL	LER	1	100	100	100
UPS		-	25	100	-
VIDEO SY	/STEM	-	150	100	-
BLANK-O	UT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET N	NAME SIGN	-	120	50	-
LUMINAIR	RE	2	250	50	250
PTZ CAM	ERA	-	75	100	-

ENERGY COSTS TO:

#### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692 COMPANY: COMED UNIVERSITY PARK

TOTAL = 621

#### ACCOUNT NUMBER:

#### JSER NAME = dwiktorzak DESIGNED - ZH REVISED DRAWN - RG REVISED CHECKED - DW REVISED REVISED PLOT DATE = 6/12/2022

QUANTITY

EACH

EACH

EACH

EACH

EACH

LAYER II (DATALINK) SWITCH

MODIFY EXISTING CONTROLLER CABINET, SPECIAL

**LEGEND:** 

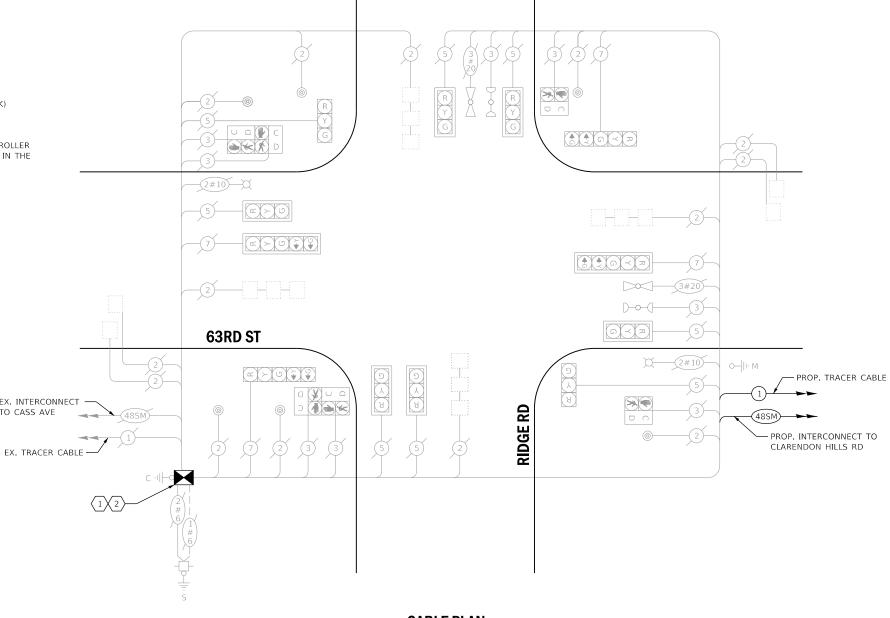
**◆ \* PROTECTED PHASE** 

← -(\*)- - PROTECTED/PERMITTED PHASE

√-(\*)- ► PEDESTRIAN PHASE

#### **CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE



#### CABLE PLAN

TRAFFIC SIGNAL BEING MODIFIED BY IDOT CONTRACT # 61H22.

#### **SCHEDULE OF QUANTITIES**

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT FULL-ACTUATED CONTROLLER IN EXISTING CABINET

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

EX. INTERCONNECT

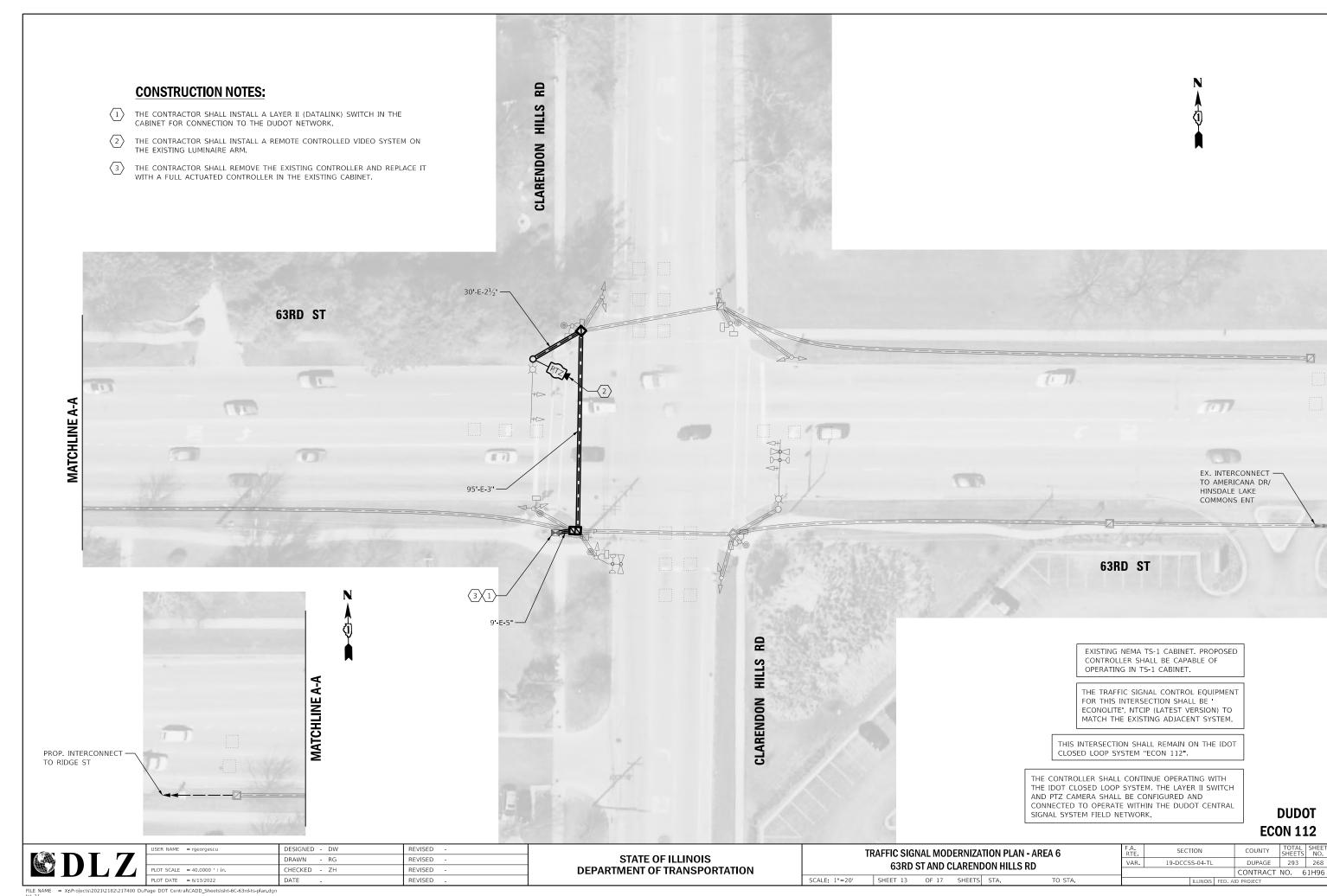
TO CASS AVE

EXISTING NEMA TS-1 CABINET. PROPOSED CONTROLLER SHALL BE CAPABLE OF OPERATING IN TS-1 CABINET.

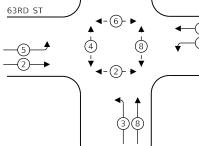
#### **DUDOT**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6 63RD ST AND RIDGE RD
SHEET 12 OF 17 SHEETS STA.

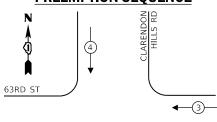
SECTION COUNTY DUPAGE 293 267 19-DCCSS-04-TL CONTRACT NO. 61H96

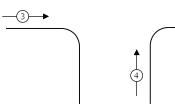


# **EXISTING CONTROLLER SEQUENCE** 47 63RD ST



#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE





#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	14	11	50	77
	(YELLOW)	14	20	5	14
	(GREEN)	14	12	45	76
PERMISSI	IVE ARROW	16	10	10	16
PED. SIG	NAL	8	20	100	160
CONTROL	LLER	1	100	100	100
UPS		-	25	100	-
VIDEO SY	YSTEM	-	150	100	-
BLANK-O	UT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET N	NAME SIGN	-	120	50	-
LUMINAIF	RE	2	250	50	250
PTZ CAM	IERA	1	75	100	75

ENERGY COSTS TO:

#### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK

TOTAL =

768

ACCOUNT NUMBER:

#### **LEGEND:**

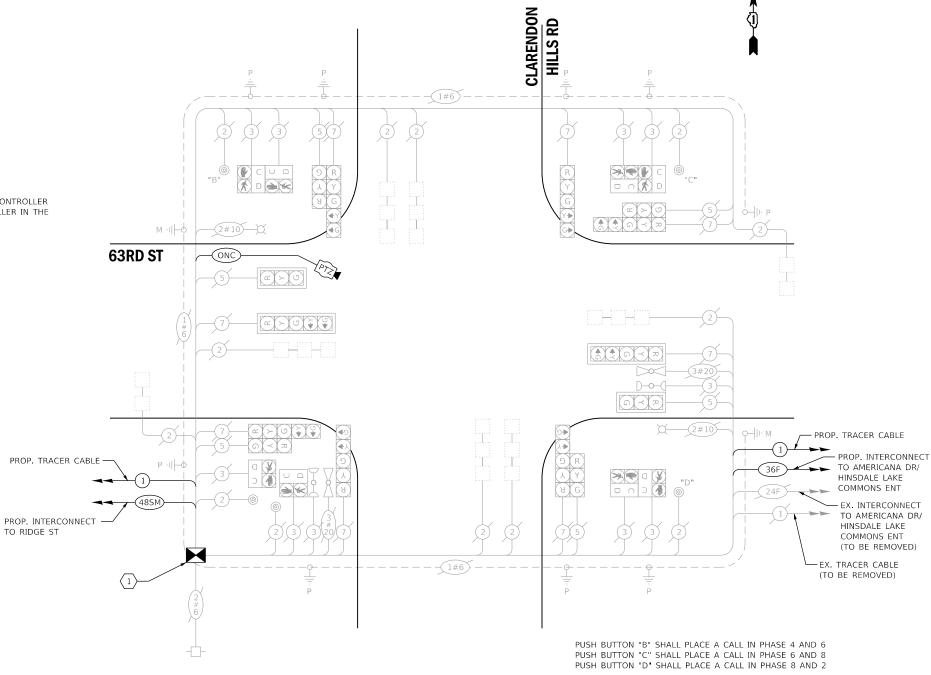
**◆** PROTECTED PHASE

← -(\*)- - PROTECTED/PERMITTED PHASE

√-(\*)- ► PEDESTRIAN PHASE

#### **CONSTRUCTION NOTES:**

THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.



**CABLE PLAN** 

EXISTING NEMA TS-1 CABINET. PROPOSED CONTROLLER SHALL BE CAPABLE OF OPERATING IN TS-1 CABINET.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE ' ECONOLITE', NTCIP (LATEST VERSION) TO MATCH THE EXISTING ADJACENT SYSTEM.

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 112".

THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH AND PTZ CAMERA SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

**DUDOT ECON 112** 

#### **SCHEDULE OF QUANTITIES**

TO RIDGE ST

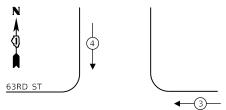
QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
179	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

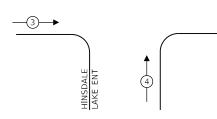
USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6 63RD ST AND CLARENDON HILLS RD
SHEET 14 OF 17 SHEETS STA.

SECTION COUNTY 19-DCCSS-04-TL DUPAGE 293 269 CONTRACT NO. 61H96

#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE





#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-

ENERGY COSTS TO:

#### **DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692

COMPANY: COMED UNIVERSITY PARK ACCOUNT NUMBER

TOTAL =

613

#### **LEGEND:**

**◆**PROTECTED PHASE ← - (\*)- - PROTECTED/PERMITTED PHASE

√- \*- PEDESTRIAN PHASE

◆ OL OVERLAP

#### **RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTEI PHASE
В	_	4	+	5
D	=	8	+	1

#### **CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.

**SCHEDULE OF QUANTITIES** 

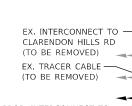
LAYER II (DATALINK) SWITCH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT

FULL-ACTUATED CONTROLLER IN EXISTING CABINET

MODIFY EXISTING CONTROLLER CABINET, SPECIAL



PROP. INTERCONNECT TO CLARENDON HILLS RD PROP. TRACER CABLE

**CABLE PLAN** 

EXISTING NEMA TS-1 CABINET. PROPOSED CONTROLLER SHALL BE CAPABLE OF OPERATING IN TS-1 CABINET.

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 2 AND 4

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE ' ECONOLITE', NTCIP (LATEST VERSION) TO MATCH THE EXISTING ADJACENT SYSTEM.

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 112".

THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

**DUDOT ECON 112** 



DESIGNED - ZH REVISED JSER NAME = dwiktorzak DRAWN - RG REVISED CHECKED - DW REVISED REVISED PLOT DATE = 6/12/2022

QUANTITY

UNIT

EACH

EACH

EACH

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6 63RD ST AND AMERICANA DR/HINSDALE LAKE COMMONS ENT
SHEET 15 OF 17 SHEETS STA. TO STA.

SECTION COUNTY VAR. 19-DCCSS-04-TL DUPAGE 293 270 CONTRACT NO. 61H96

FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT Central\CADD\_Sheets\sht-6C-63rd-ts-Cable.dg Int 22

63RD ST

HINSDALE LAKE COMMONS ENT

**AMERICANA DR** 

XXY•

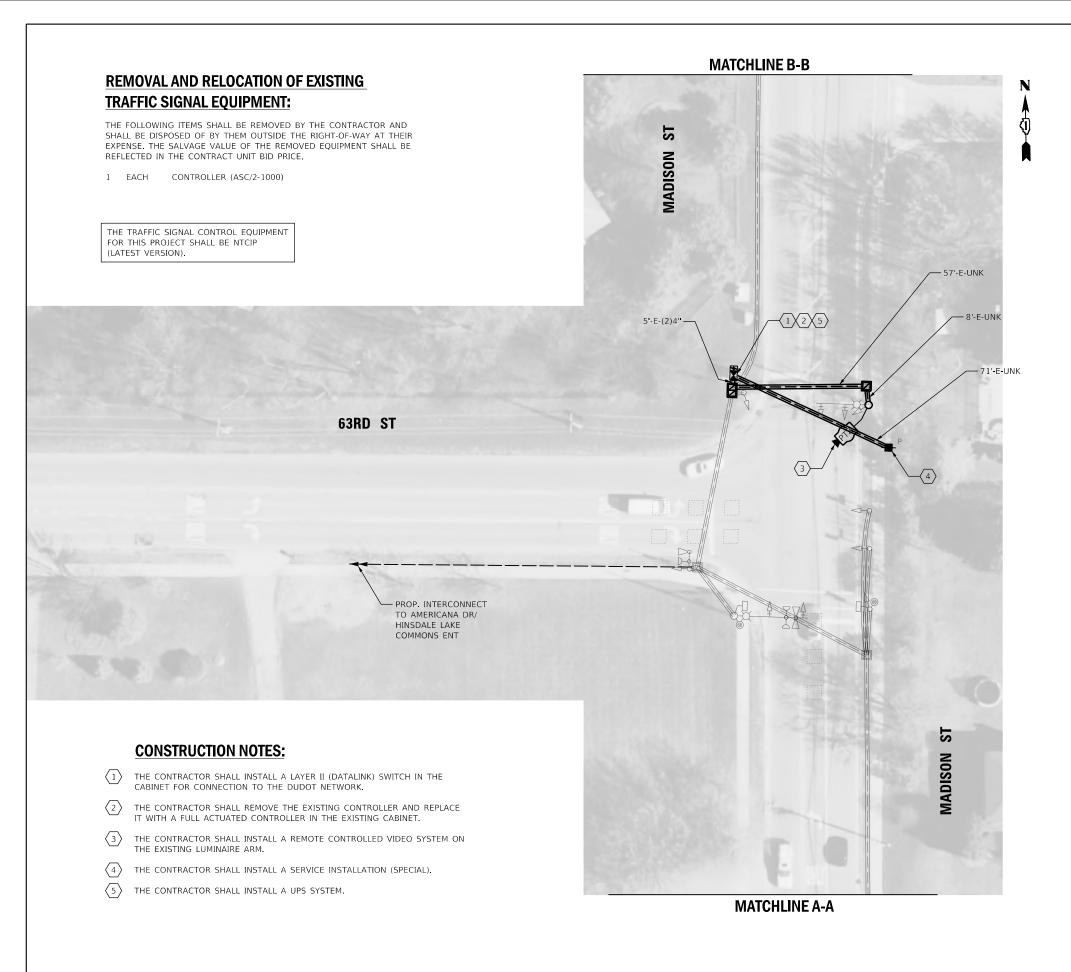
EX. TRACER CABLE TO

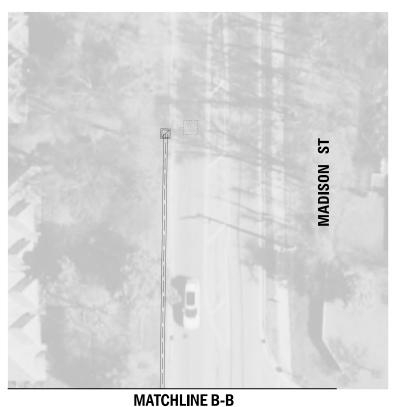
IL RTE 83 (TO REMAIN)

TO MADISON ST

EX. INTERCONNECT TO

- PROP. INTERCONNECT TO MADISON ST - PROP. TRACER CABLE



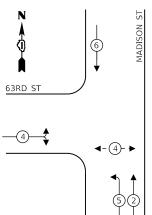


#### MATCHLINE A-A



#### **DUDOT**

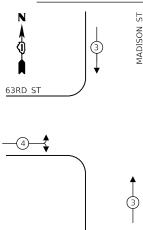
	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -		TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 6	F.A.	SECTION	COUNTY	TOTAL SHEET
MADI 7		DRAWN - RG	REVISED -	STATE OF ILLINOIS		VAR.	. 19-DCCSS-04-TL	DUPAGE	293 271
	PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -	DEPARTMENT OF TRANSPORTATION	63RD ST AND MADISON ST			CONTRACT N	NO. 61H96
	PLOT DATE - 6/12/2022	DATE	REVISED		SCALE: 1"-20" SHEET 16 OF 17 SHEETS STA TO STA		THUMOIC LEED	AID DROIECT	



#### **LEGEND:**

- **◆ \* PROTECTED PHASE**
- ← -(\*)- PROTECTED/PERMITTED PHASE
- **◄-\*** ► PEDESTRIAN PHASE

#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE



#### TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
			TOTAL =	613

ENERGY COSTS TO:

#### DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN

PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK

USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

FACH

EACH

EACH

#### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

63RD ST

-**PF** 

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 6 63RD ST AND MADISON ST
SHEET 17 OF 17 SHEETS STA.

SECTION COUNTY 19-DCCSS-04-TL DUPAGE 293 272 CONTRACT NO. 61H96

### **SCHEDULE OF QUANTITIES**

SERVICE INSTALLATION (SPECIAL)

FULL-ACTUATED CONTROLLER IN EXISTING CABINET

MODIFY EXISTING CONTROLLER CABINET, SPECIAL

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
95	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
95	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
142	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
71	FOOT	ROD AND CLEAN EXISTING CONDUIT
144	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT

PROP. TRACER CABLE

PROP. INTERCONNECT

TO AMERICANA DR/

HINSDALE LAKE COMMONS ENT

**CABLE PLAN** 

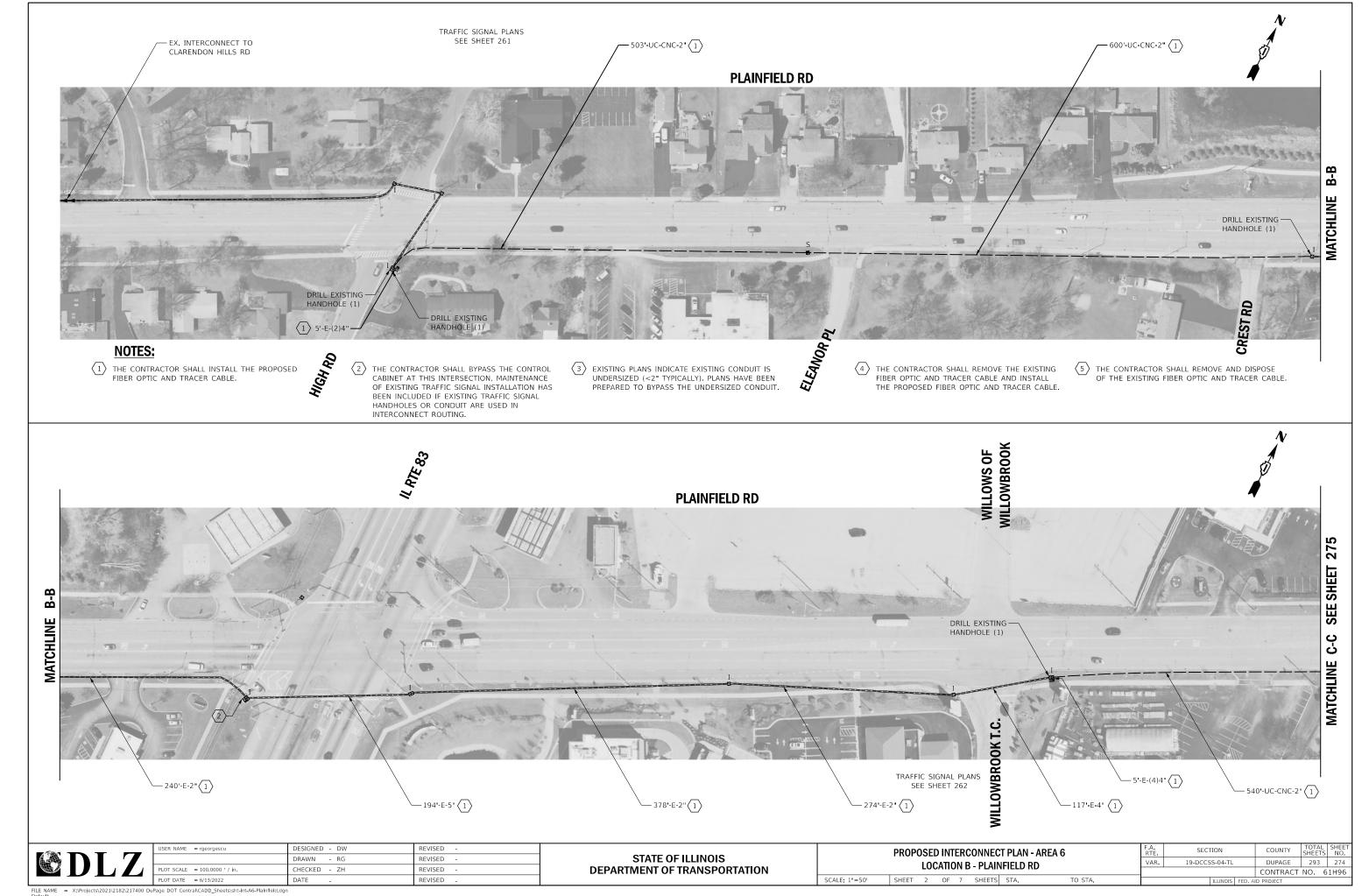
**MADISON ST** 

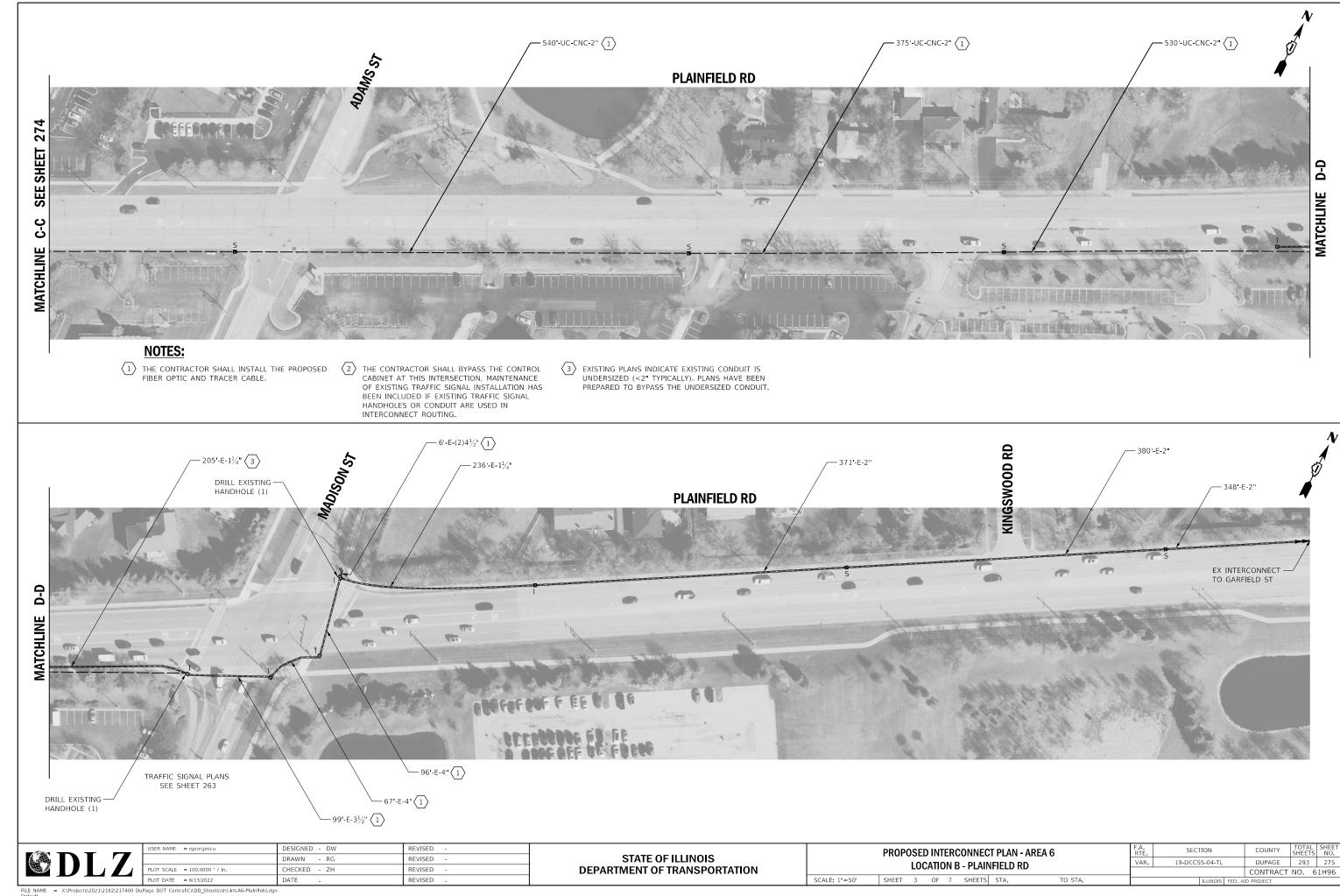
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

- CABLE TO BE REMOVED

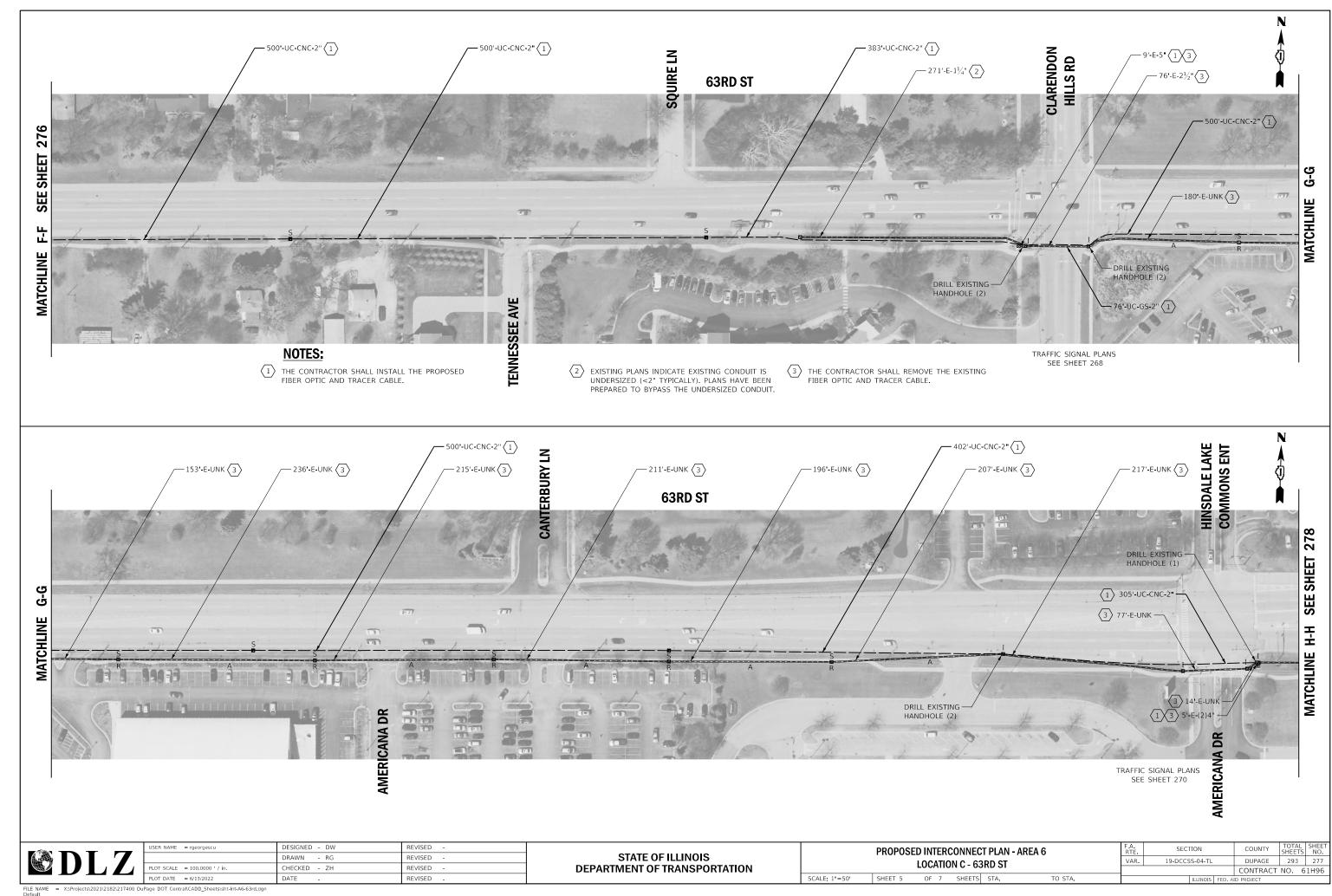
#### **DUDOT**

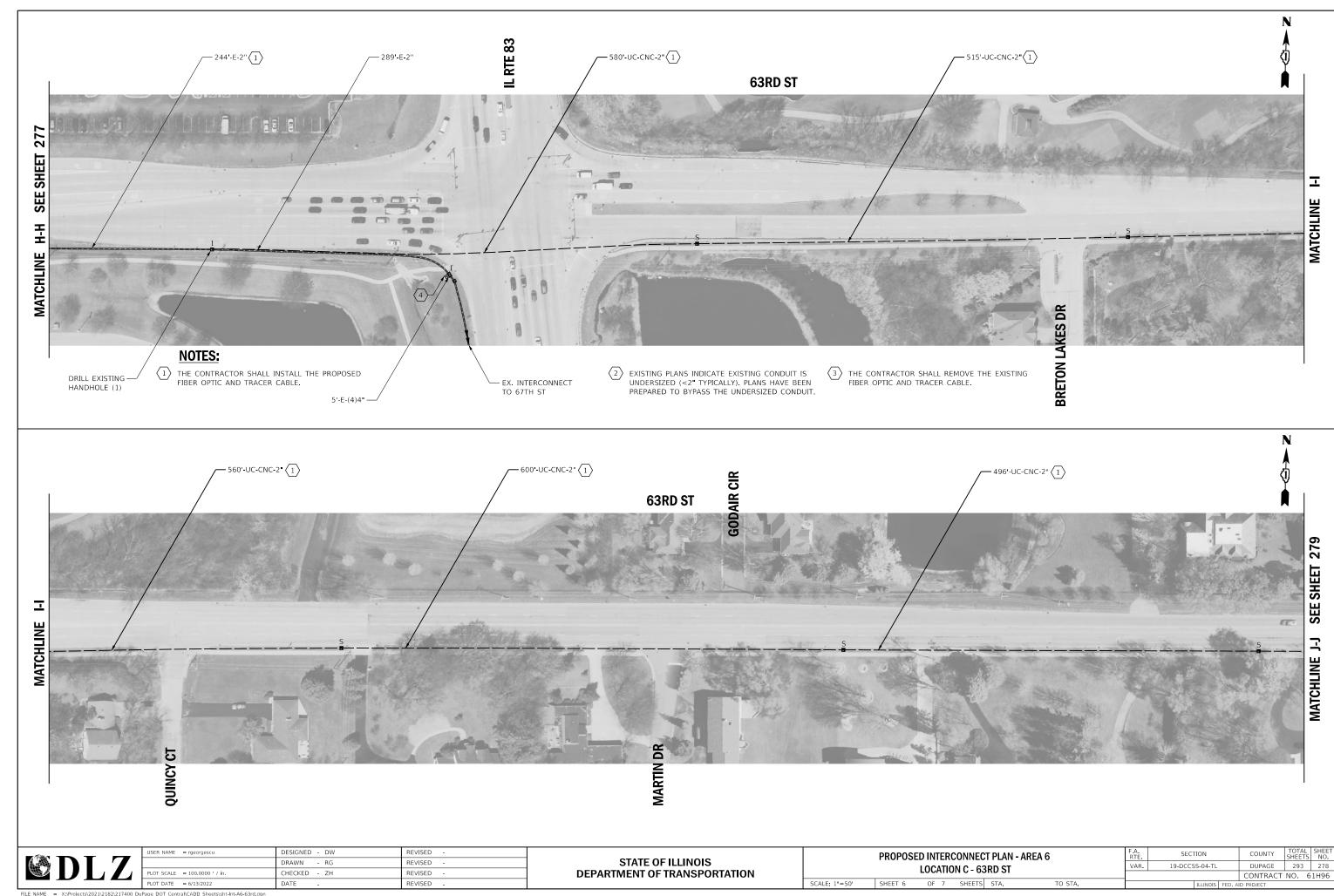


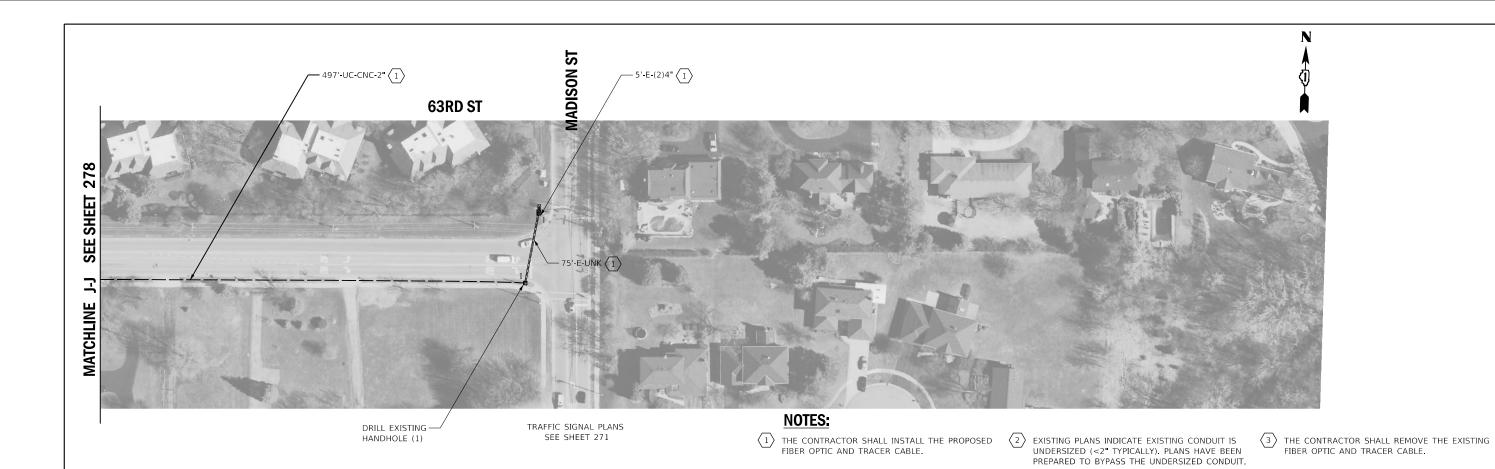












**©DLZ** 

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN - AREA 6

LOCATION C - 63RD ST

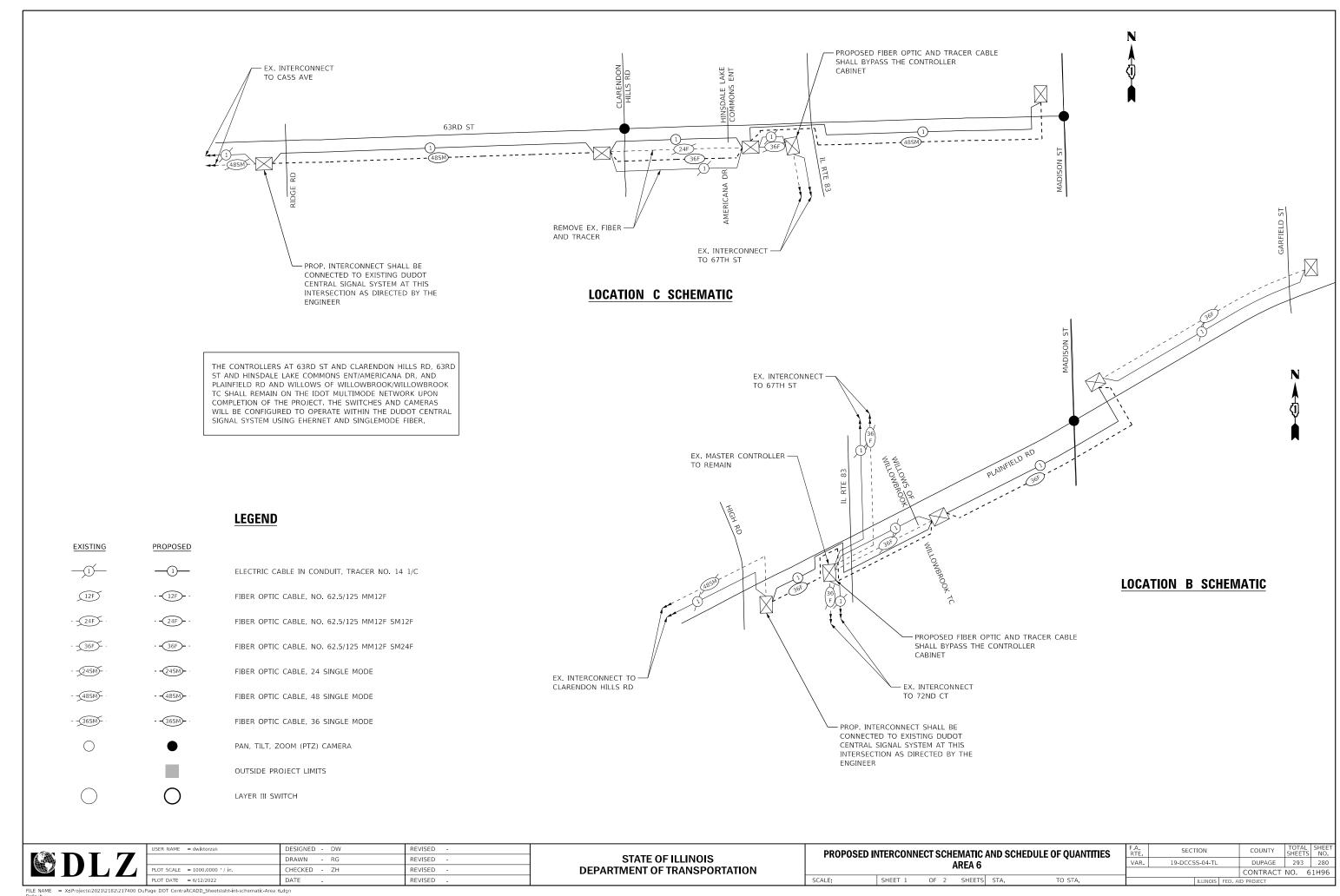
SHEET 7 OF 7 SHEETS STA. TO STA.

SCALE: 1"=50'

F.A. SECTION COUNTY TOTAL SHEET NO.

VAR. 19-DCCSS-04-TL DUPAGE 293 279

CONTRACT NO. 61H96



### **AREA 6 FIBER NOTES**

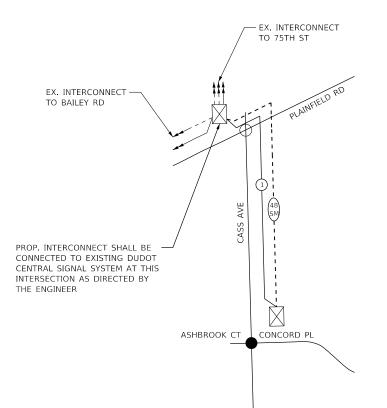
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIBER SPLICES AND TERMINATIONS FOR ALL PROPOSED FIBER OPTIC CABLES AS SPECIFIED IN THE SPECIAL PROVISIONS FOR FIBER OPTIC CABLES.

TERMINATIONS FOR EXISTING FIBER OPTIC CABLES AND SPLICES BETWEEN EXISTING FIBER OPTIC CABLES SHALL BE PAID FOR SEPARATELY. FOR BIDDING PURPOSES AN ESTIMATED QUANTITY OF SPLICES AND TERMINATIONS HAS BEEN INCLUDED IN THE QUANTITIES.

THE ACTUAL NUMBER OF TERMINATIONS AND SPLICES AT EACH LOCATION SHALL BE BASED ON THE NETWORK CONFIGURATION DOCUMENT SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE TRAFFIC ENGINEER. SEE THE SPECIAL PROVISION LAYER III SWITCH. SPLICES AND TERMINATIONS SHALL BE REALLOCATED BY THE ENGINEER, AS NEEDED, BETWEEN THE INTERCONNECT AREAS.

AREA 6 FIBER SPLICE AND TERMINATION SCHEDULE:

ITEM DESCRIPTION	INCLUDED IN FIBER	TO PAID FOR
TIEM DESCRIPTION	OPTIC CABLE PAY ITEM	SEPARATELY
TERMINATE FIBER IN CABINET	84	36
SPLICE FIBER IN CABINET	54	6



### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	PAY ITEM DESCRIPTION	EXISTING	PROPOSED	
10 230 1	CU YD GALLON EACH	NON-SPECIAL WASTE DISPOSAL SPECIAL WASTE GROUNDWATER DISPOSAL SOIL DISPOSAL ANALYSIS			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C
0.16 0.16	L SUM L SUM	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	12F	· <del>-</del> (12F)- ·	FIBER OPTIC CABLE, NO. 62.5/125 MM12F
0.5 76 13761	CAL DA FOOT FOOT	REGULATED SUBSTANCES MONITORING UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	- <del>24F</del> - ·	· - 24F ·	FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F
20 3	EACH EACH	HANDHOLE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	- 36F ·	· -(36F)- ·	FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F
16565 16 1782	FOOT EACH FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C DRILL EXISTING HANDHOLE REMOVE ELECTRIC CABLE FROM CONDUIT	- <u>245M</u>	- <b>-</b> 245M-	FIBER OPTIC CABLE, 24 SINGLE MODE
6 6875 9810	EACH FOOT FOOT	REMOVE EXISTING HANDHOLE FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	- <u>48SM</u>	(48SM)- ·	FIBER OPTIC CABLE, 48 SINGLE MODE
1782 36	FOOT EACH	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE REMOVE FIBER OPTIC CABLE FROM CONDUIT TERMINATE FIBER IN CABINET	<u>36SM</u> -	365M	FIBER OPTIC CABLE, 36 SINGLE MODE
6 1	EACH EACH	SPLICE FIBER IN CABINET LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE	$\bigcirc$	•	PAN, TILT, ZOOM (PTZ) CAMERA
					OUTSIDE PROJECT LIMITS
				$\circ$	LAYER III SWITCH



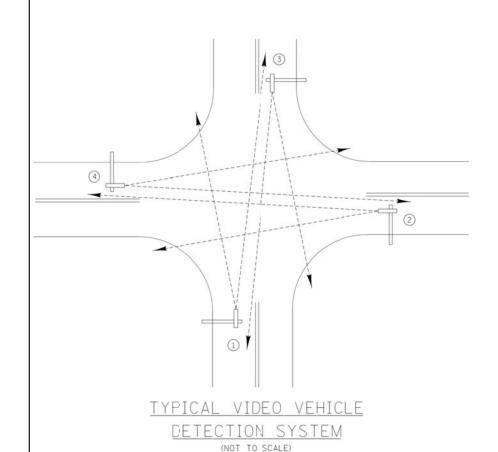
**LOCATION A SCHEMATIC** 

USER NAME = zhoerbert	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 1000.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

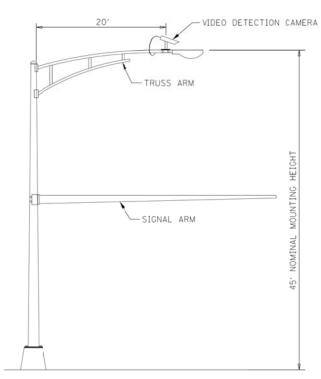
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

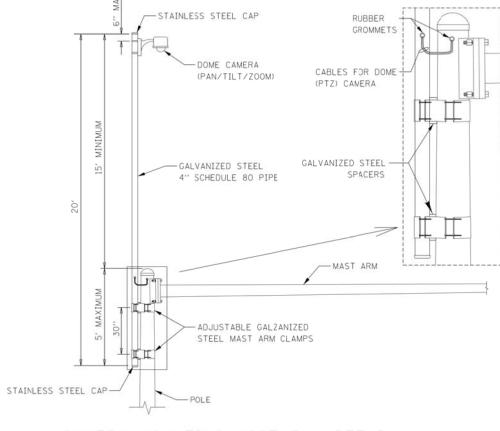
PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES				F.A. RTE	SECTIO	N	COUNTY	TOTAL SHEETS	SHEET NO.		
	AREA 6					VAR.	VAR. 19-DCCSS-04-TL		DUPAGE	293	281
			71112710						CONTRACT	NO. 6	51H96
SCALE:	SHEET 2	OF	2 SHEETS	STA.	TO STA.		ILL	LINOIS FED. A	ID PROJECT		

**LEGEND** 



(4) VIDEO DETECTION CAMERA ASSEMBLIES AND BRACKETS (1) (2) (3) (4)

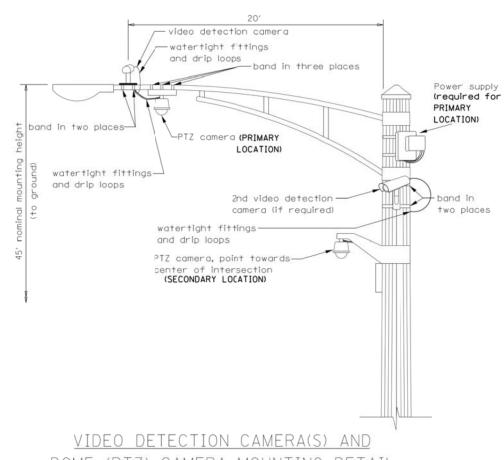




## CAMERA MOUNTING ASSEMBLY DETAIL

### (NOT TO SCALE) NOTES:

- THE MAST ARM IS TAPERED.
- INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIFED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
- SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS



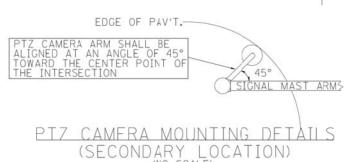
# DOME (PTZ) CAMERA MOUNTING DETAIL

(NOT TO SCALE)

NOTES FOR SINGLE, DUAL AND MULTIPLE CAMERA MOUNTING:

- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE. - MOUNT VIDEO DETECTION CAMERA AIMING DOWN TOWARD THE DIRECTION
- OF TRAFFIC TO BE DETECTED.

CENTER POINT OF INTERSECTION



COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS

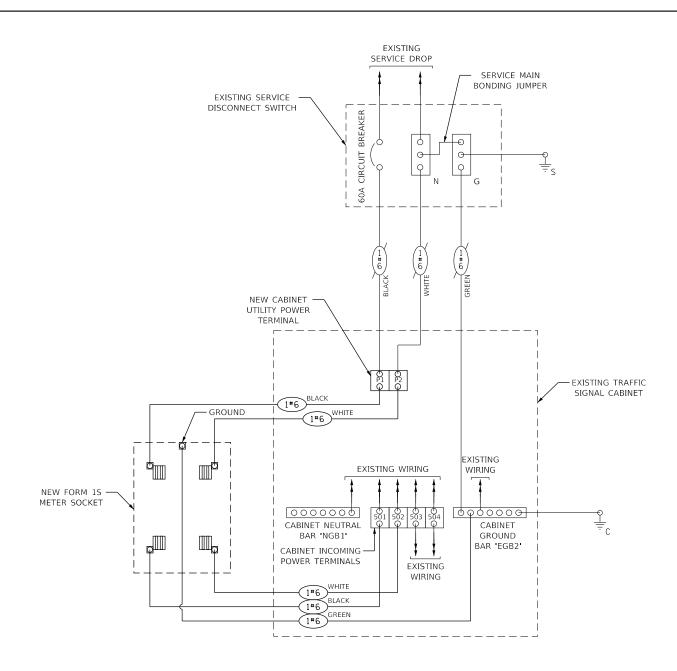
(NOT TO SCALE)

USER NAME = dwiktorzak	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

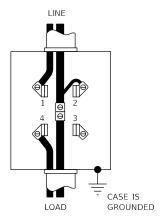
SCALE:

		0414ED4 I	401111711	0.057411		F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
CAMERA MOUNTING DETAIL						VAR.	. 19-DCCSS-04-TL		DUPAGE	293	282
									CONTRACT	NO. 6	1H96
	SHEET	OF	SHEETS	STA.	TO STA.		ILLING	S FED. A	ID PROJECT		



### CABINET WIRING MODIFICATIONS:

- 1. INSTALL NEW 60A, 600V, 2 POLE POWER TERMINAL BLOCK INSIDE CABINET AND MOUNT NEW METER SOCKET ON OUTSIDE OF CABINET.
- 2. MOVE EXISTING UTILITY POWER INCOMING CABLES FROM TB 501 & 502 TO NEW POWER TERMINAL BLOCK P1 AND P2.
- 3. WIRE FROM NEW POWER TERMINAL BLOCK P1 AND P2 TO LINE SIDE OF NEW METER SOCKET.
- 4. WIRE FROM LOAD SIDE OF NEW METER SOCKET TO TB 501 AND 502.



### **FORM 1S METER SOCKET DETAIL**

TERMINALS 1 AND 2 ARE THE LINE SIDE FOR BOTH SOCKET AND A-BASE FITTINGS.

TERMINALS 3 AND 4 ARE THE LOAD SIDE FOR BOTH SOCKET AND A-BASE FITTINGS.

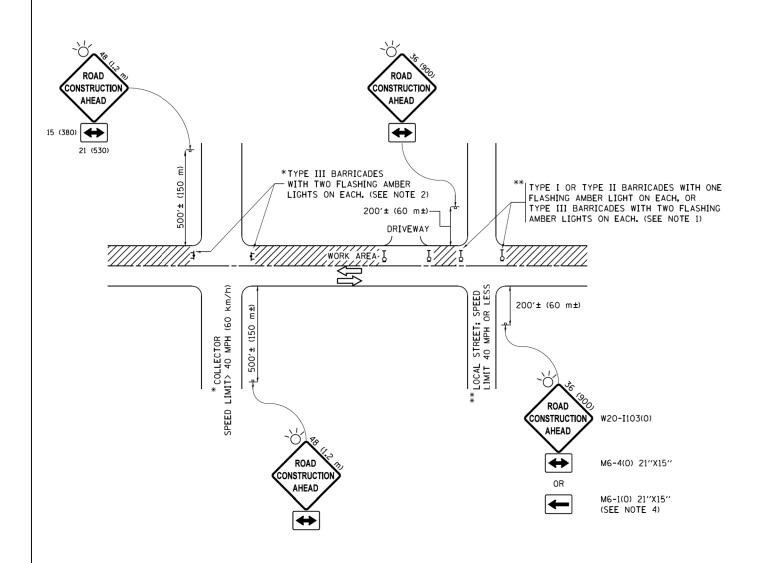
SCALE:

	D	L	Z
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USER NAME = dwiktorzak	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	METER	000/5			F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	METER	SOCKETI	EIAIL		VAR.	19-DCCSS-04-TL	DUPAGE	293	283
							CONTRACT	NO. 6	1H96
SHEET	OF	SHEETS	STA	TO STA		TILINOIS SED A	ID DDOJECT		



### **NOTES:**

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200" (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48  $\times$  48 (1.2 m  $\times$  1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE:

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

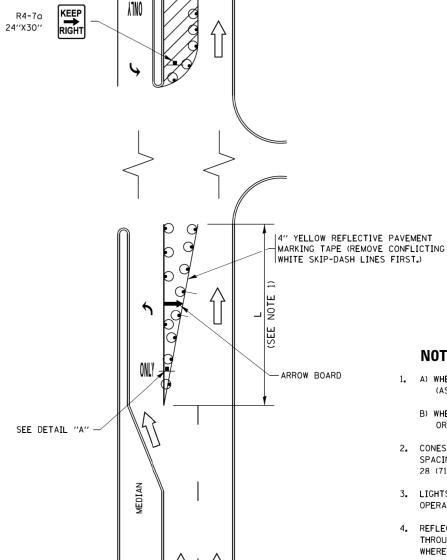
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\ILØ84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	CADData\CADData\CADsheets\tc10.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TRAFFIC	CONTRO	OL AND PI	ROTECTIO	N FOR	F.A. RTE	SECT	ΓΙΟΝ
c	IDE ROAD	S INTER	SECTIONS	S AND DI	DIVEWAYS	VAR.	19-DCCS	S-04-
_	IDE NOAD	o, iivilii	SECTION	יט טווא, כ	(IVEWAIS		TC-10	
	SHEET	OF	SHEETS	STA.	TO STA.			ILLING

## TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



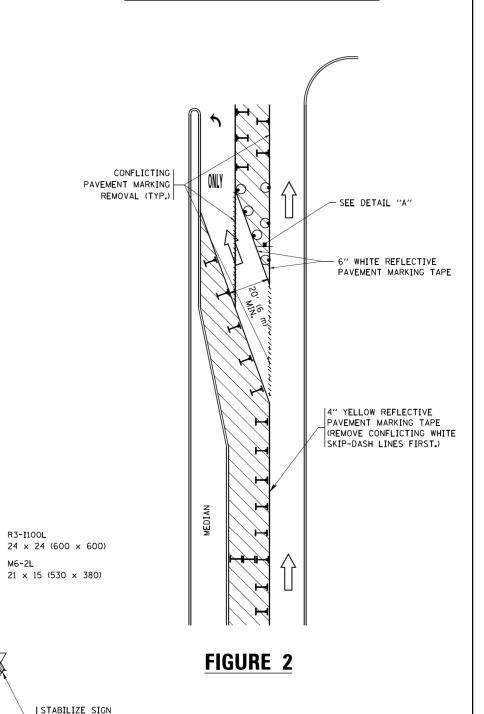
## FIGURE 1

# **LEGEND** WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

- 1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

# **TURN BAY ENTRANCE** WITHIN A LANE CLOSURE



## **DETAIL A**

SCALE:

SUPPORT WITH

SANDBAGS AS

NECESSARY

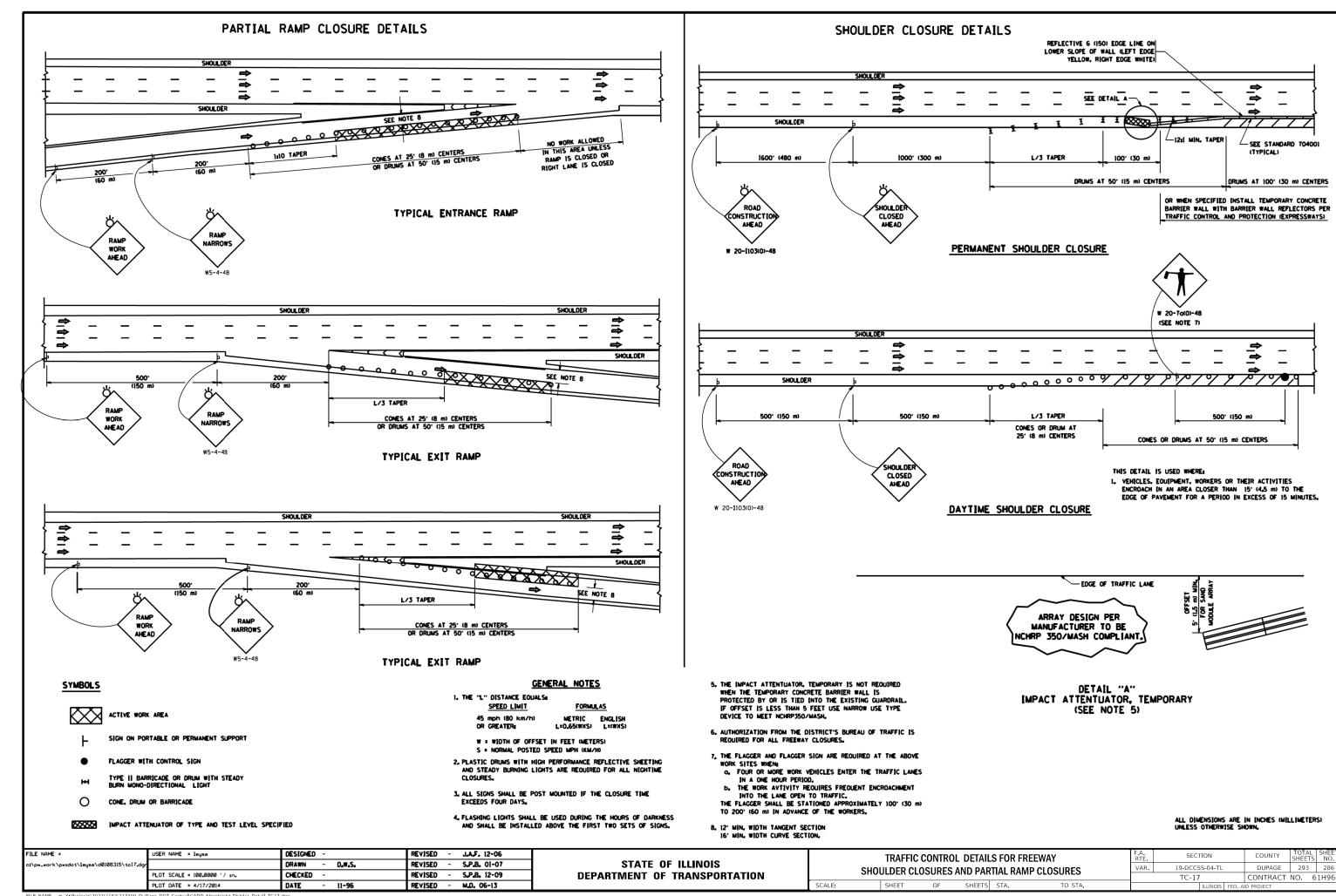
TURN LANE

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

FILE NAME =	USER NAME = footemj	REVISED	-T.	RAMMACHER 09-08-94	REVISED	- R. BORO 09-14-09
pw:\\ILØ84EBIDINTEG.:1ll:no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	14 <b>03-21-14-36</b>	)D <del>a</del> ta	∖C <b>AΩ₃HOUSEH</b> 14 <b>1<del>15</del>07-9</b> 5	REVISED	- A. SCHUETZE 07-01-13
	PLOT SCALE = 50.00000 ' / 10.	REVISED	-	A. HOUSEH 10-12-96	REVISED	- A. SCHUETZE 09-15-16
Default	PLOT DATE = 9/15/2016	REVISED	-T.	RAMMACHER 01-06-00	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS		F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.				
	(T(	PEMAIN	N OPEN TO	TRAFE	iic)	VAR.	19-DCCSS-04-TL		DUPAGE	293	285
	(10	) INCIVIALI	VOI LIVIO	וואחוו	10)		TC-14		CONTRACT	NO. 6	51H96
	СПЕСТ	O.E.	CHEETC	CTA	TO CTA		n i more	550 A	D DDOLEGE		



Default

tc17.dgn 4/17/2014 8:48:55 AM User=levsa

# TRAFFIC SIGNAL LEGEND

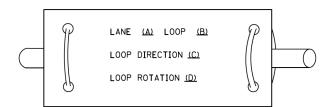
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	<u>ITEM</u>	<u>EXISTING</u>	PROPOSED	<u>ITEM</u>	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R	R R Y
COMMUNICATION CABINET	ECC	CC	-ROUND HEAVY DUTY HANDHOLE					GG
MASTER CONTROLLER	EMC	MC	-SQUARE -ROUND	H (H)	⊞ ⊕			<b>←</b> Y <b>←</b> Y <b>←</b> G <b>P</b>
MASTER MASTER CONTROLLER	EMMC	ммс	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE	(a) (a) (a)	
UNINTERRUPTABLE POWER SUPPLY	<b>₹</b>	<b>9</b>	JUNCTION BOX	0	0	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	- <b>-</b> P	RAILROAD CANTILEVER MAST ARM	$X \longrightarrow X \longrightarrow X$	X <del>OX X</del>			G G G 4Y 4Y 4G
SERVICE INSTALLATION	C CM	C CM	RAILROAD FLASHING SIGNAL	<del>X0</del> X	<b>X⊕X</b>		P RB	P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G}\boxtimes^{GM}$	<b>⊠</b> <sup>G</sup> <b>⊠</b> <sup>GM</sup>	RAILROAD CROSSING GATE	<del>202</del> >	<b>X•⊁</b> -	PEDESTRIAN SIGNAL HEAD	<b>(</b>	<b>₽</b>
TELEPHONE CONNECTION	ET	Т	RAILROAD CROSSBUCK	₹ 2	*	AT RAILROAD INTERSECTIONS		
STEEL MAST ARM ASSEMBLY AND POLE	0	•	RAILROAD CONTROLLER CABINET		▶∢	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C A	<b>♥</b> C <b>★</b> D
ALUMINUM MAST ARM ASSEMBLY AND POLE	0		UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			ILLUMINATED SIGN		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o-¤—	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			"NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	● ● BM	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	(5)	
WOOD POLE	⊗	8	INTERSECTION ITEM	I	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED	~	
GUY WIRE	<b>⋄</b> <b>≻</b>	<b>∀</b>	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	<del></del>
SIGNAL HEAD	<i>-</i> ⊳	<i>-</i>	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
SIGNAL HEAD WITH BACKPLATE	+->	+▶	ABANDON ITEM		Α	NO. 14 1/C	,	
SIGNAL HEAD OPTICALLY PROGRAMMED	-⊳ P +⊳ P	- <b>▶</b> P + <b>▶</b> P	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u></u>	<u> </u>
FLASHER INSTALLATION	od> <sup>F</sup> od> <sup>FS</sup>	•► FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		
-(FS) SOLAR POWERED	F FS	F FS	SIGNAL POST AND		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	<del></del>	<del>(6#18)</del>
PEDESTRIAN SIGNAL HEAD	-0	-1	FOUNDATION TO BE REMOVED  DETECTOR LOOP, TYPE I		ПО	FIBER OPTIC CABLE -NO. 62.5/125, MM12F	—	—(12F)—
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON		_ ⊚ ⊚ APS	PREFORMED DETECTOR LOOP	P P	P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		—(24F)—
RADAR DETECTION SENSOR	R A	R	SAMPLING (SYSTEM) DETECTOR	<b>S S</b>	<b>S S</b>		—(36F)—	—(36F)—
VIDEO DETECTION CAMERA	[v]]	_ [v]¶	INTERSECTION AND SAMPLING	IS (IS)	IS (IS)			00.
RADAR/VIDEO DETECTION ZONE		<u>~</u>	(SYSTEM) DETECTOR  QUEUE AND SAMPLING		_	GROUND ROD -(C) CONTROLLER	<u>-</u> С _М _Р _S + + + + +	$\stackrel{:}{\bar{\mp}}^{C}  \stackrel{:}{\bar{\mp}}^{M}  \stackrel{:}{\bar{\mp}}^{P}  \stackrel{:}{\bar{\mp}}^{S}$
PAN, TILT, ZOOM (PTZ) CAMERA	[PTZ]]	ETZ¶	(SYSTEM) DETECTOR	QS QS	QS QS	-(M) MAST ARM -(P) POST	<b>0 0 0 0</b>	• • • •
EMERGENCY VEHICLE LIGHT DETECTOR	<b>₩</b>	~	WIRELESS DETECTOR SENSOR	<b>®</b>	<b>©</b>	-(S) SERVICE		
CONFIMATION BEACON	~	+	WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT	o <del>∙1   </del> ——	•+						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
WINCLESS INTERCONNECT NADIO REFEREN	[211.]							
USER NAME = footemj	DESIGNED -			ATE OF ILLINOIS		DISTRICT ONE	F.A. SECTION	ON COUNTY TOTAL S
	DRAWN -	IP REVISED -		AIF OF ILLINIUS		TANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR. 19-DCCSS-	-03-TL DUPAGE 293 28

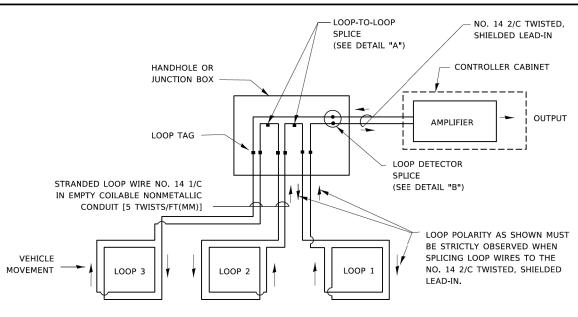
### **LOOP DETECTOR NOTES**

- 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**

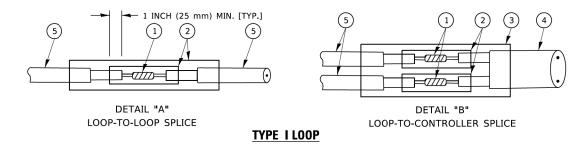


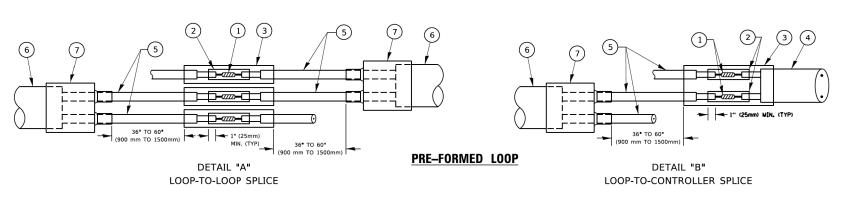
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



### **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.





### LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP
- (6) XL POLYOLEFIN 2 CONDUCTOR
- (7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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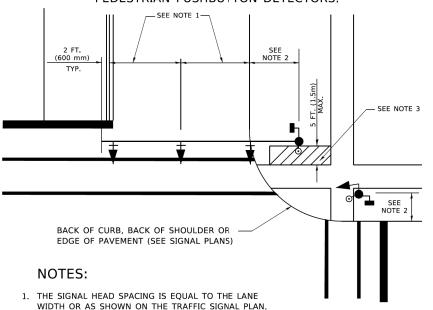
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION DISTRICT ONE VAR. DUPAGE 19-DCCSS-03-TL 293 288 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 61H96 OF SHEETS STA.

### TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

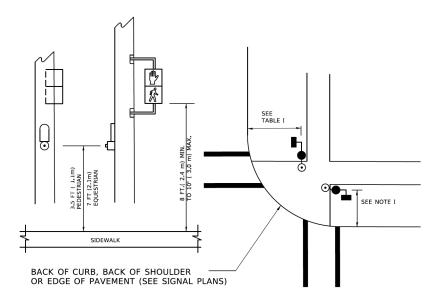
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



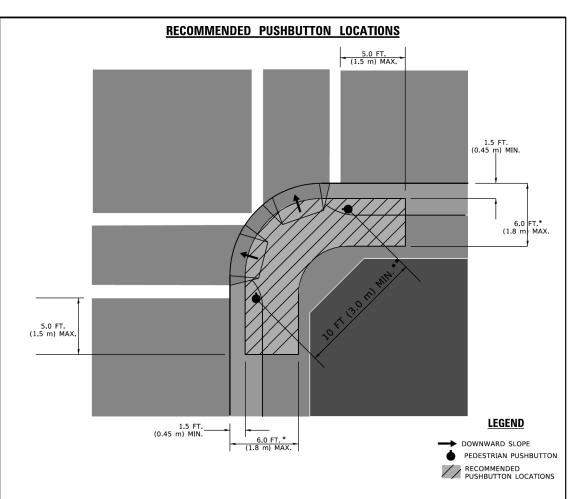
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE 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.
- 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.
- 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."



- \* 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.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

### TRAFFIC SIGNAL EQUIPMENT OFFSET

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

### NOTES:

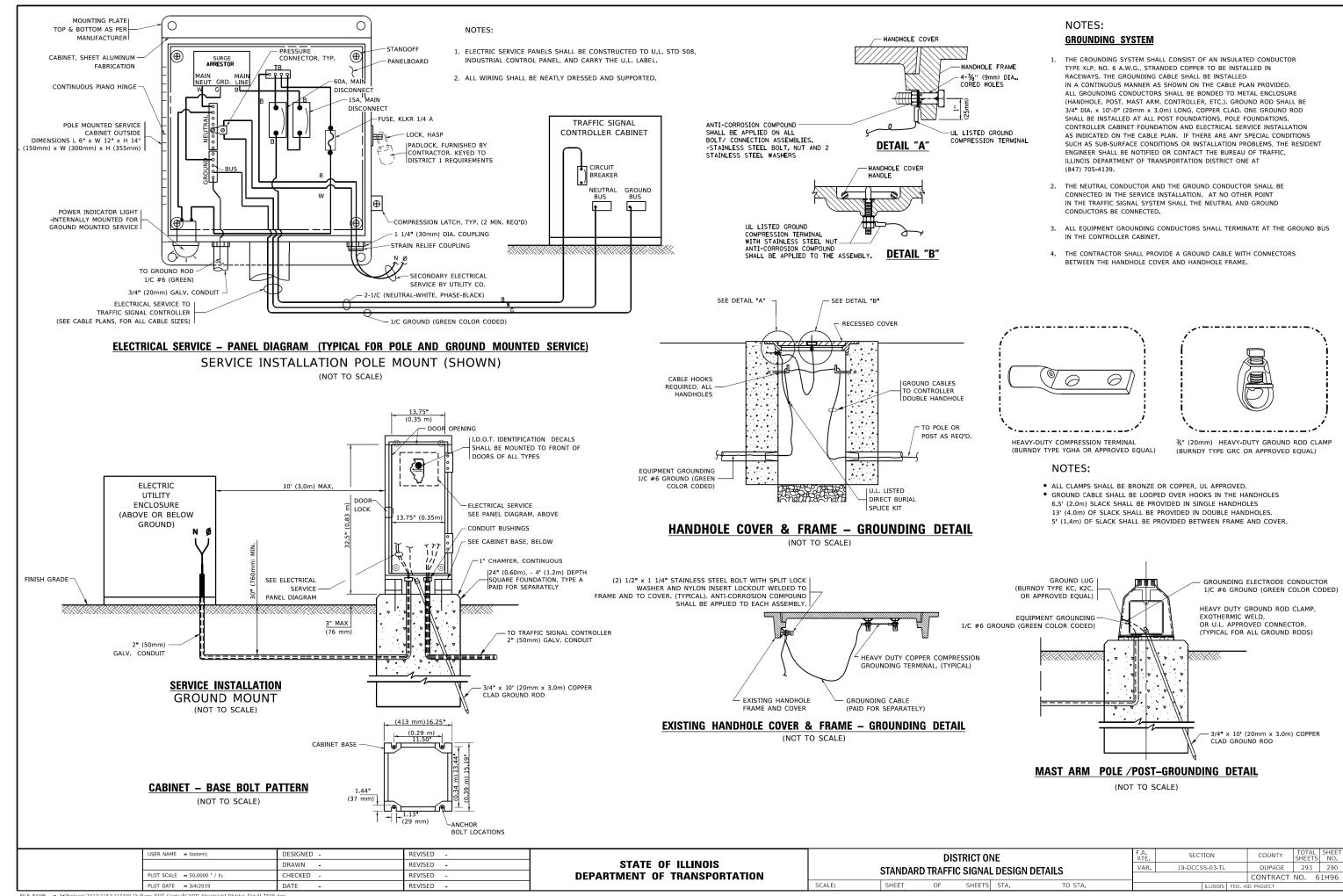
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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

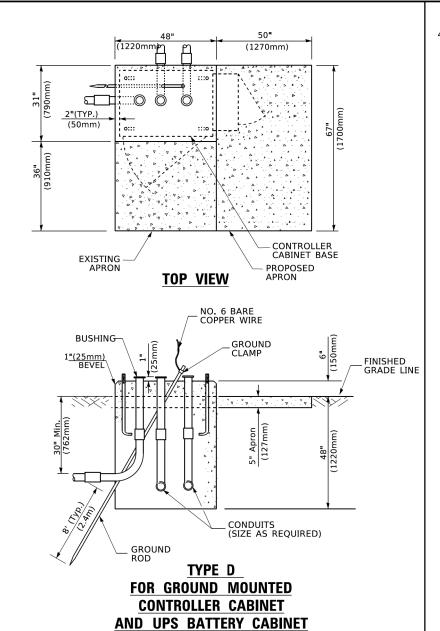
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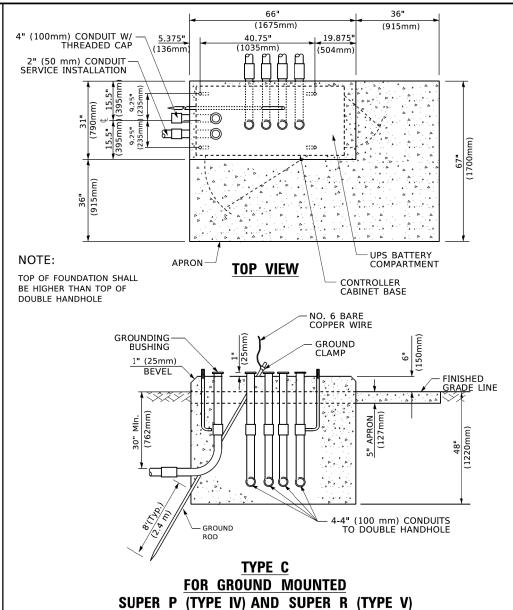
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

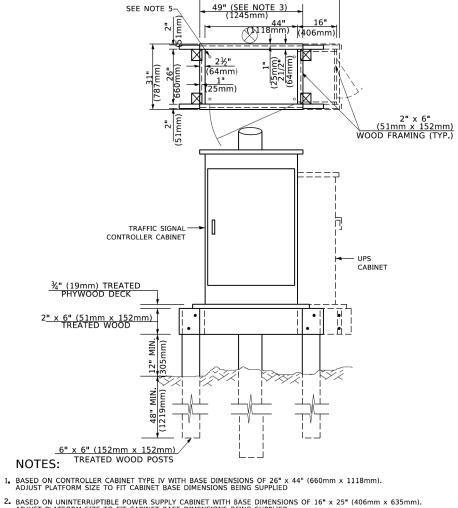
		DIS	STRICT ON	IE.		F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			VAR.	19-DCCSS-03-TL	DUPAGE	293	289			
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**CONTROLLER CABINETS** 



65" (SEE NOTE 4) (1651mm)

- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16"  $\times$  25" (406mm  $\times$  635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- $\ensuremath{\mathfrak{Z}_{\bullet}}$  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

V	ERTICA	L CA	ABLE	LEN	GTF

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**

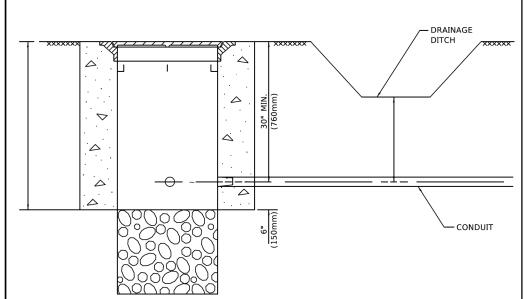
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3 <b>.</b> 0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4 <sub>4</sub> 1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	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 <b>.</b> 6 m)	42" (1060mm)	36" (900mm)	16	8(25)
NOTEO					

### <u>NOTES:</u>

- 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 (Ou) > 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 most arm assemblies with dual arms refer to state standard 878001..

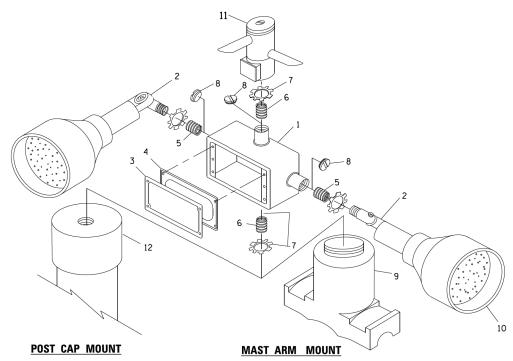
## DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		



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

# HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL** 

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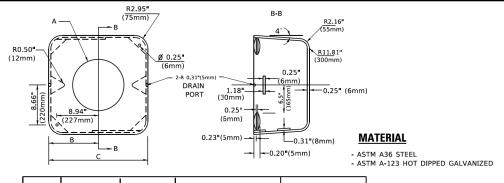
(915mm) 40.75" (1035mm) CONTROLLER CABINET BASE PROPOSED-**TOP VIEW** APRON -NO. 3 DOWEL 18" (450mm NO. 6 BARE COPPER WIRE LONG (8 REQ.) BUSHING-\_GROUND/ CLAMP EXISTING-ANCHOR BOLTS **FINISHED** GRADE LINE BEVEL (225mm) -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION (NOT TO SCALE)

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	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.]

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

STATE OF ILLINOIS

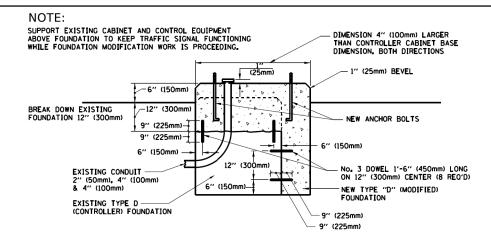
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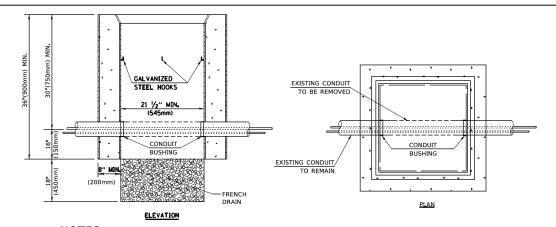
Α	В С		C HEIGHT	
VARIES 9.5"(241mm) 19"(483mm)		19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	VARIES 10.75"(273mm) 21.5"(54		7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES 13.0"(330mm) 26"(660m		26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

### **SHROUD**

- . 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.



### MODIFY EXISTING TYPE "D" FOUNDATION



- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

### HANDHOLE TO INTERCEPT EXISTING CONDUIT

DISTRICT ONE DUPAGE 19-DCCSS-03-TL 293 292 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 61H96 SHEETS STA.

