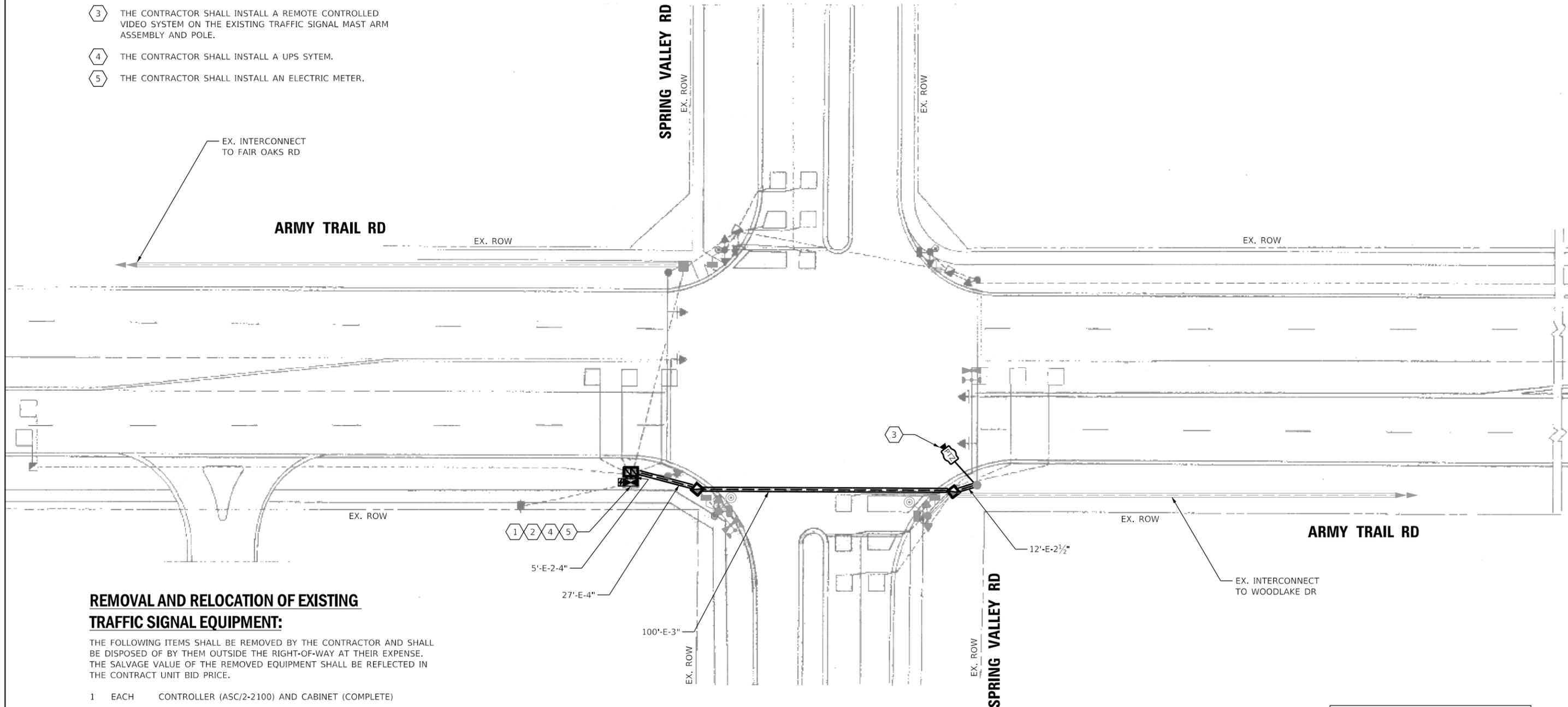
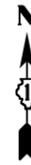


CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL. INSTALL LIGHT DETECTOR AMPLIFIER.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 5 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.



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/2-2100) AND CABINET (COMPLETE)

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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
57	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

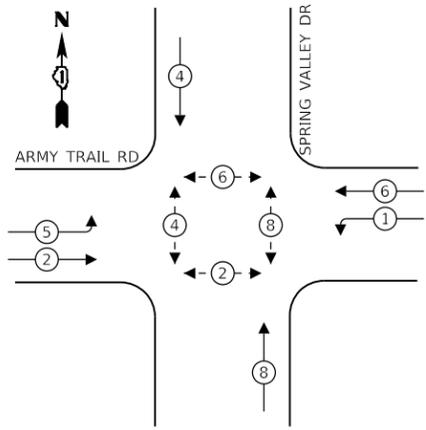
TRAFFIC SIGNAL MODERNIZATION PLAN
ARMY TRAIL RD AND SPRING VALLEY DR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	101
CONTRACT NO. 61H22			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 83 OF 172 SHEETS STA. TO STA.

DUDOT

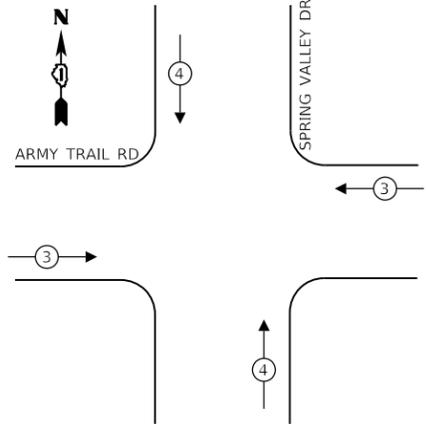
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
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	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				511

ENERGY COSTS TO:

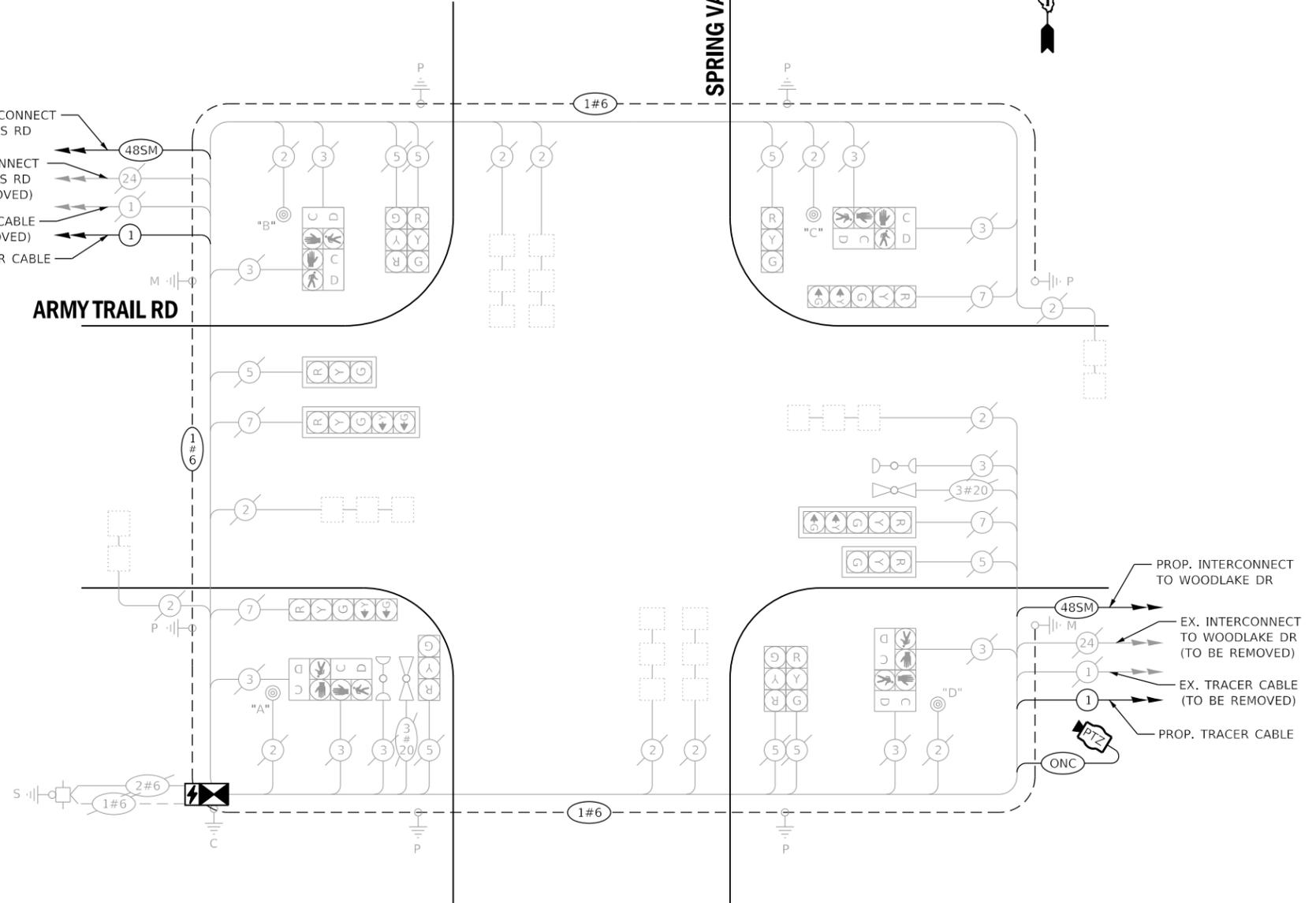
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER: _____

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
225	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)

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

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

USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
57	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

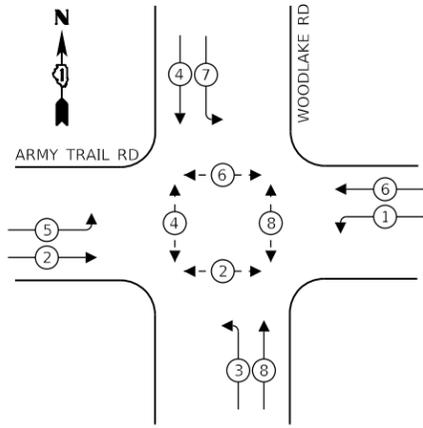
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
ARMY TRAIL RD AND SPRING VALLEY DR

SCALE: NTS SHEET 84 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	102
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

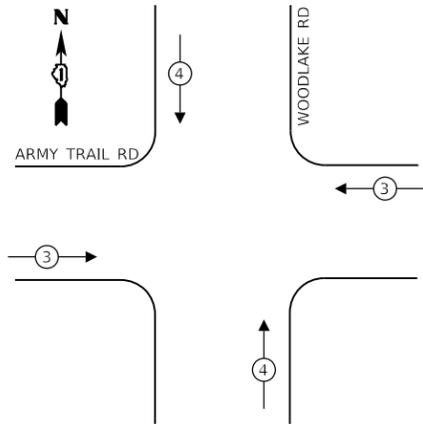
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	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	-	75	100	-
TOTAL =				694

ENERGY COSTS TO:

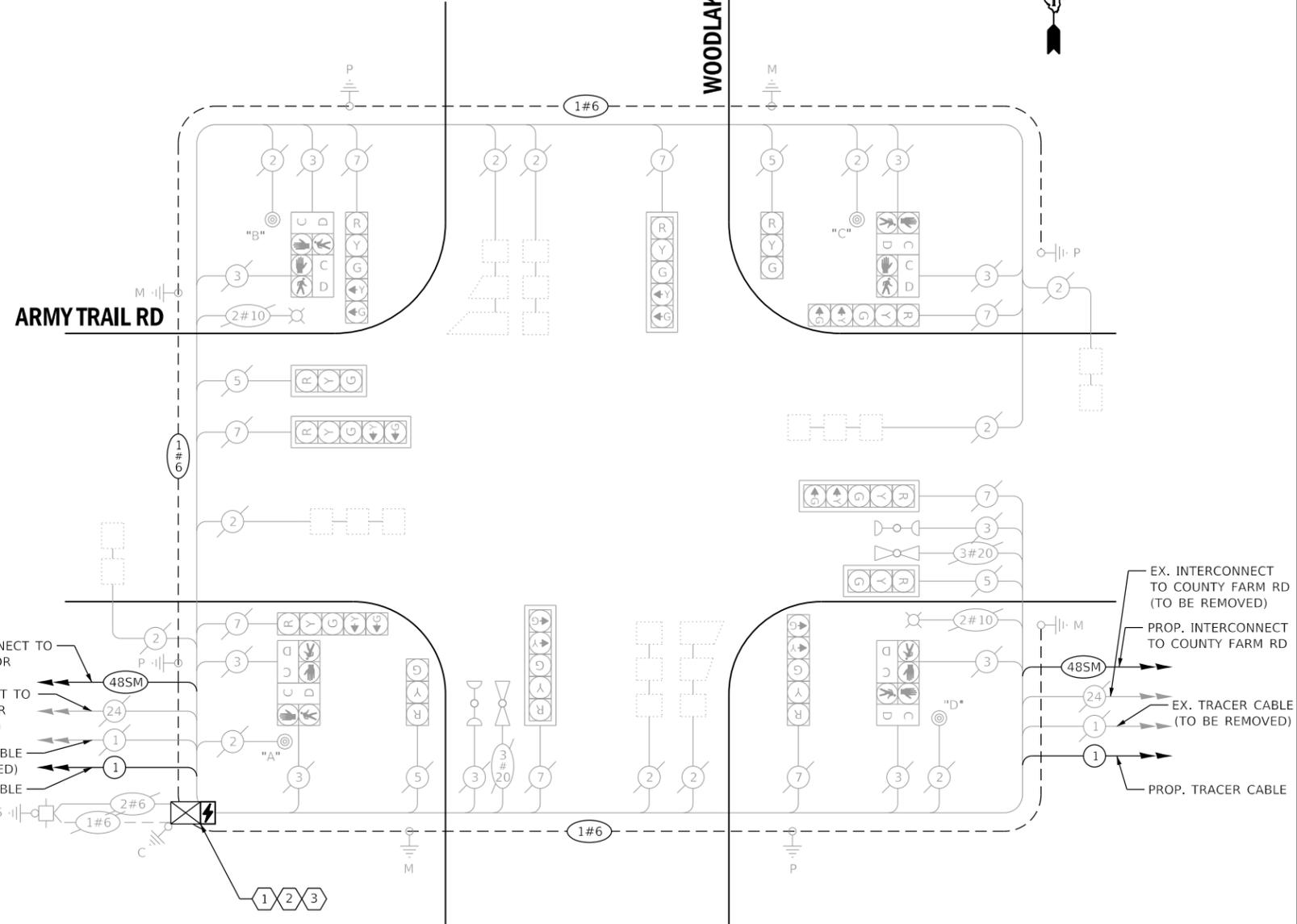
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)

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 8 AND 2



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
58	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
ARMY TRAIL RD AND WOODLAKE RD

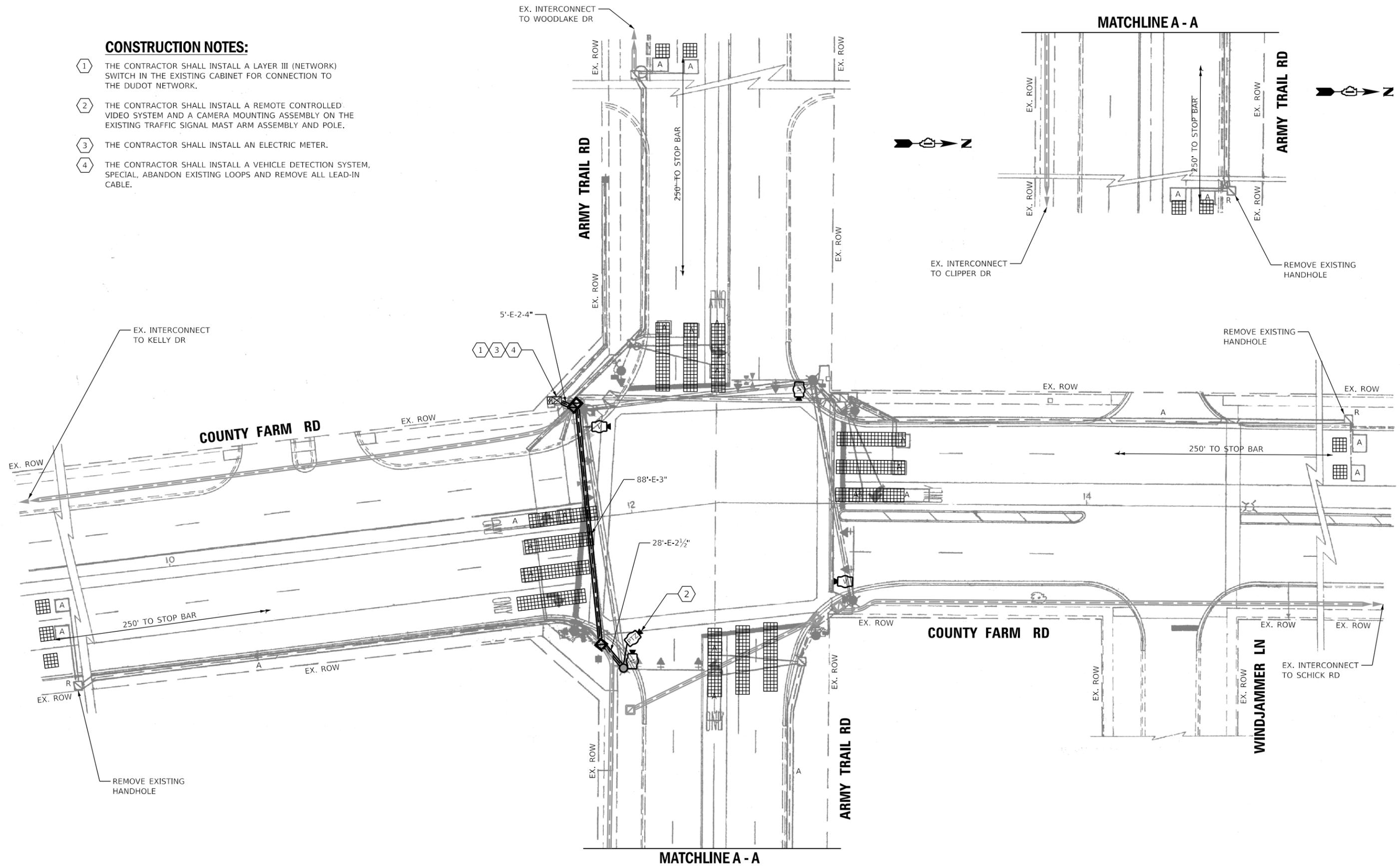
SCALE: NTS SHEET 85 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	103
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM AND A CAMERA MOUNTING ASSEMBLY ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 3 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 4 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
51	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

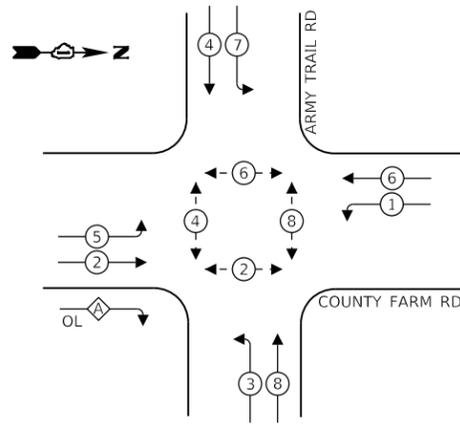
**TRAFFIC SIGNAL MODERNIZATION PLAN
ARMY TRAIL RD AND COUNTY FARM RD**

SCALE: 1"=20' SHEET 86 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	104
			CONTRACT NO. 61H22	

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-army-ts-plan.dgn Int51

EXISTING CONTROLLER SEQUENCE



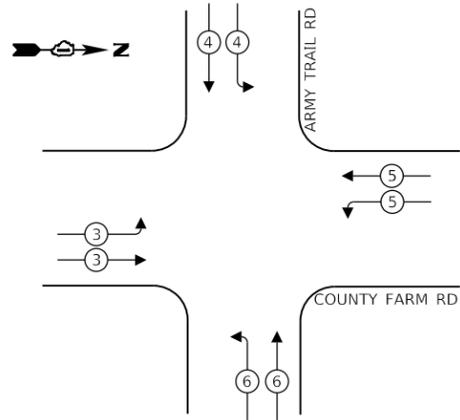
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	11	50	94
(YELLOW)	17	20	5	17
(GREEN)	17	12	45	92
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1217

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

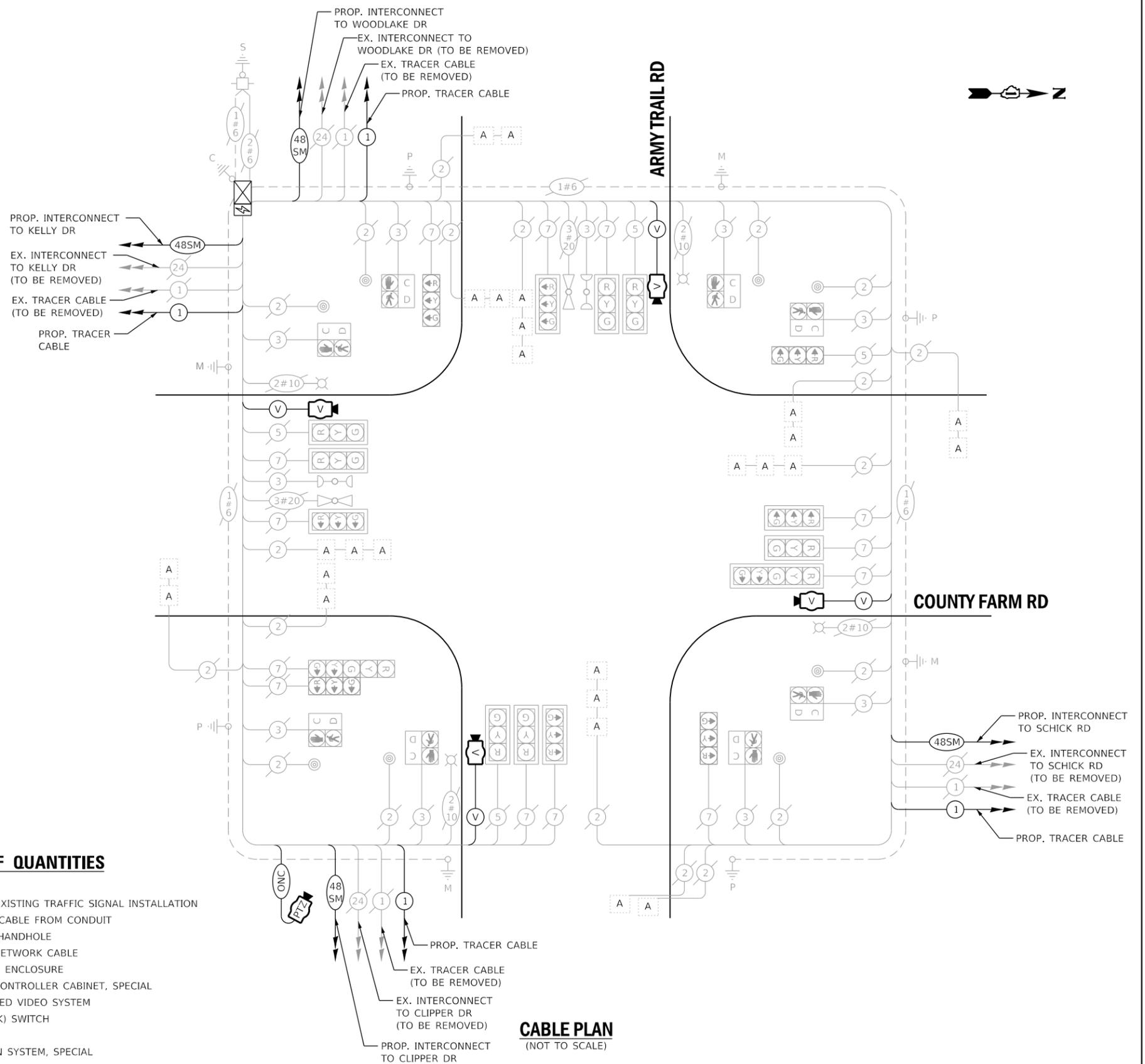
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2596	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
3	EACH	REMOVE EXISTING HANDHOLE
215	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2596	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
3	EACH	REMOVE EXISTING HANDHOLE
215	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



CABLE PLAN (NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	51	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

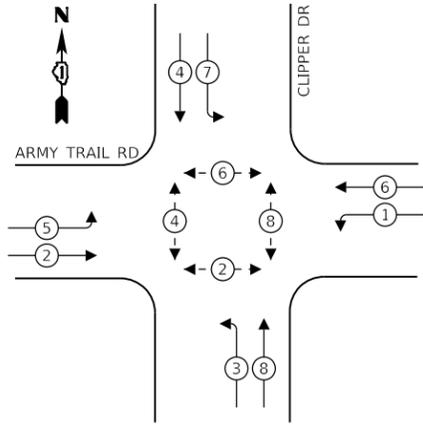
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES ARMY TRAIL RD AND COUNTY FARM RD

SCALE: NTS SHEET 87 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	105
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

EXISTING CONTROLLER SEQUENCE



LEGEND:

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

REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

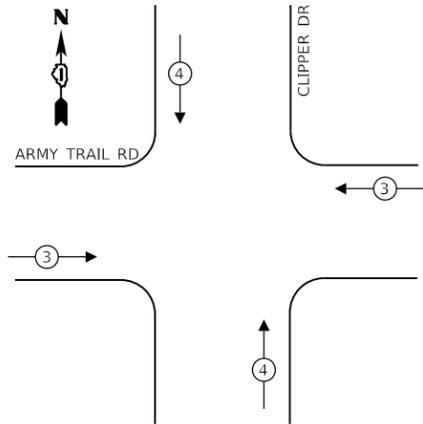
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/2S-1000)
- 1 EACH SERVICE INSTALLATION

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (75'-E-1 1/2").

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	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	-	75	100	-
TOTAL =				944

ENERGY COSTS TO:

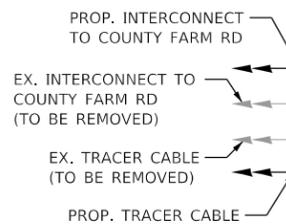
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

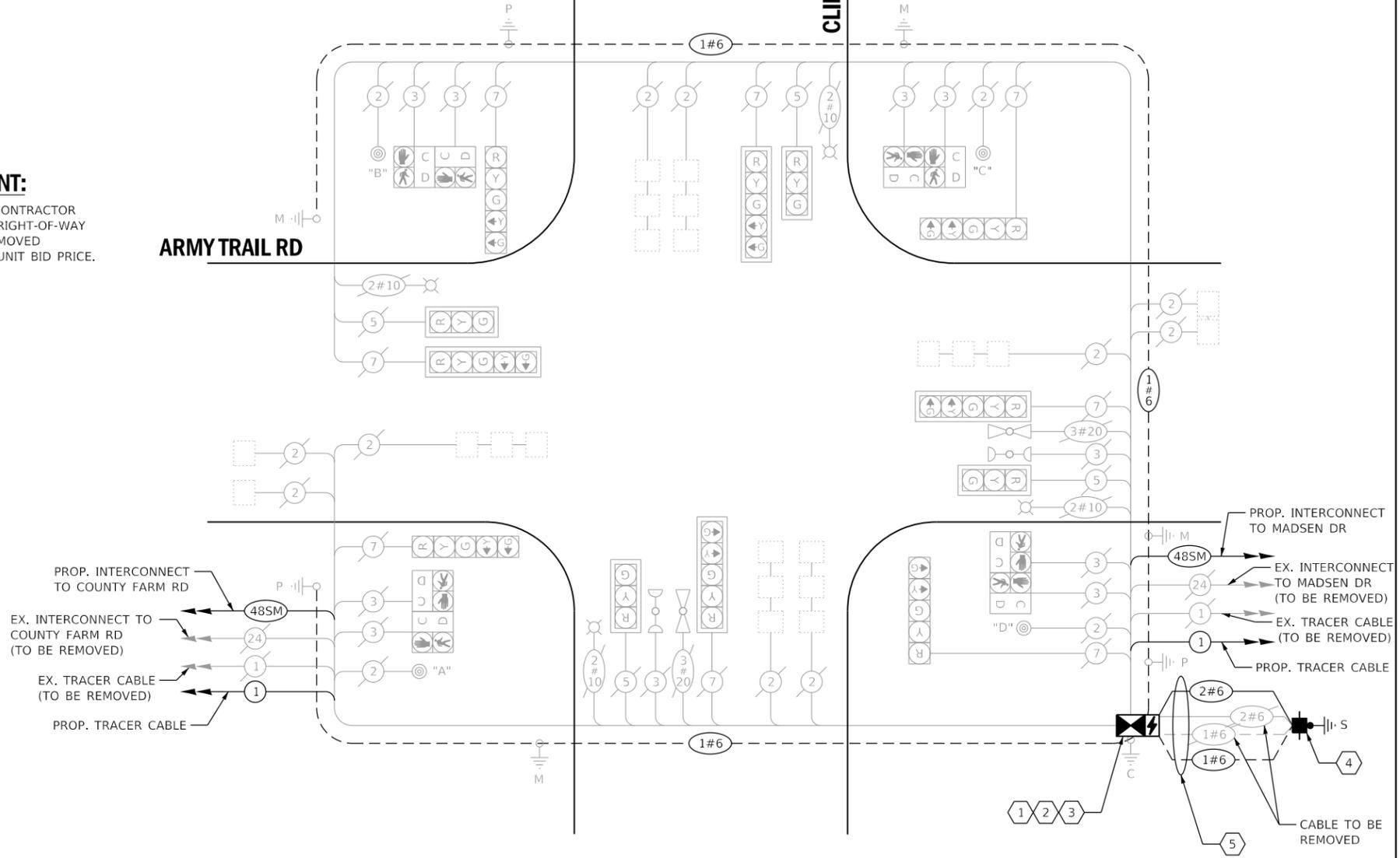
TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
95	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
150	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
75	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES



ARMY TRAIL RD

CLIPPER DR



CABLE PLAN
(NOT TO SCALE)

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

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

DUDOT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
ARMY TRAIL RD AND CLIPPER DR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	106
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

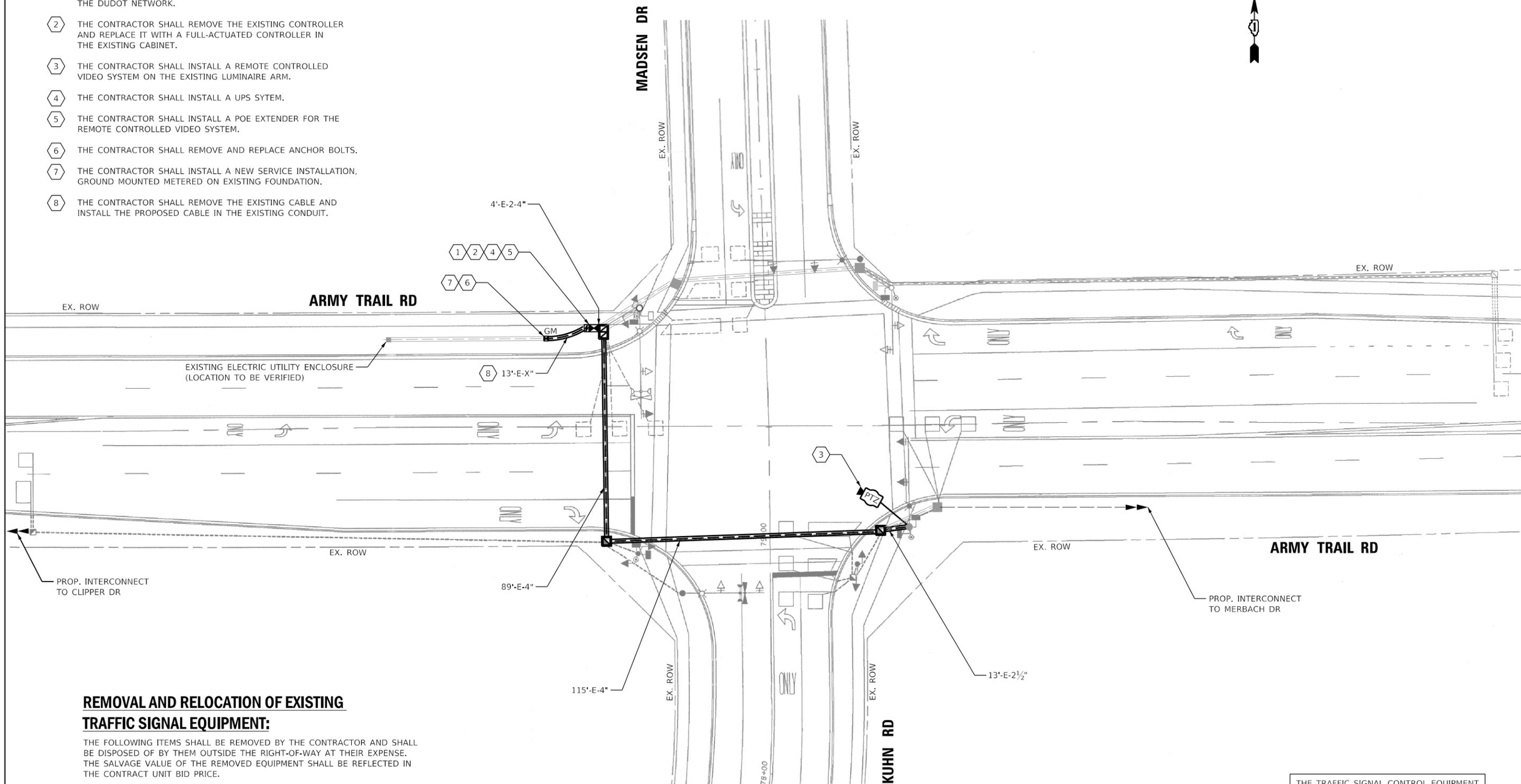
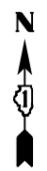
SCALE: NTS SHEET 88 OF 172 SHEETS STA. TO STA.



USER NAME	DESIGNED	REVISION
= zhoerbert	- ZH	-
50	- RG	-
PLOT SCALE = 40.0000 "/td> <td>CHECKED - DW</td> <td>REVISION -</td>	CHECKED - DW	REVISION -
PLOT DATE = 8/2/2021	DATE -	REVISION -

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 5 THE CONTRACTOR SHALL INSTALL A POE EXTENDER FOR THE REMOTE CONTROLLED VIDEO SYSTEM.
- 6 THE CONTRACTOR SHALL REMOVE AND REPLACE ANCHOR BOLTS.
- 7 THE CONTRACTOR SHALL INSTALL A NEW SERVICE INSTALLATION, GROUND MOUNTED METERED ON EXISTING FOUNDATION.
- 8 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.



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.

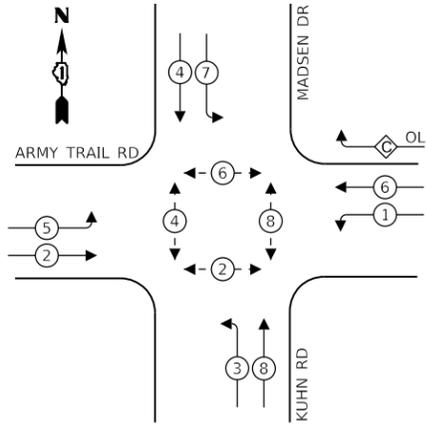
- 1 EACH CONTROLLER (ASC/2S-2100)
- 1 EACH SERVICE INSTALLATION

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

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN ARMY TRAIL RD AND MADSEN DR/KUHN RD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	54	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	107
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -									
	PLOT DATE = 8/2/2021	DATE -	REVISED -		SCALE:	SHEET 89	OF 172	SHEETS	STA.	TO STA.		
FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-army-ts-plan.dgn Int54												

EXISTING CONTROLLER SEQUENCE



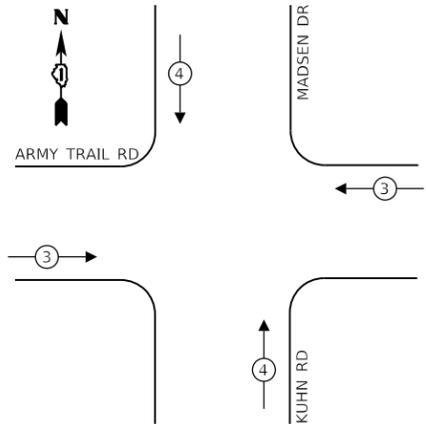
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 7

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
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	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1071

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

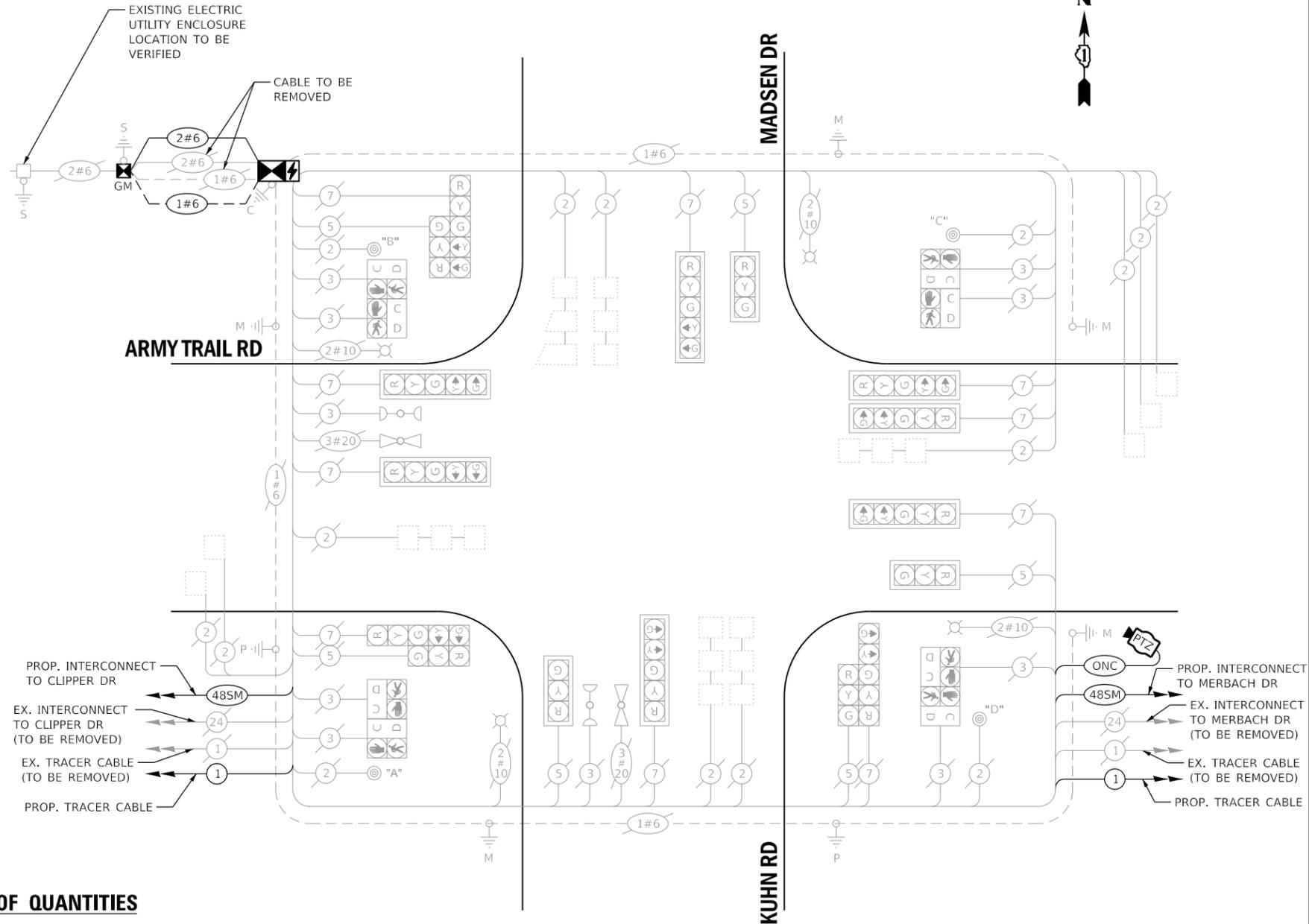
ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY

TOTAL QUANTITY	UNITS
1	EACH
35	FOOT
35	FOOT
26	FOOT
1	EACH
13	FOOT
320	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ROD AND CLEAN EXISTING CONDUIT
OUTDOOR RATED NETWORK CABLE
SERVICE INSTALLATION, GROUND MOUNTED, METERED
FULL-ACTUATED CONTROLLER IN EXISTING CABINET
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
REMOVE AND REPLACE ANCHOR BOLTS
POE EXTENDER



CABLE PLAN
(NOT TO SCALE)

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 8 AND 2

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	54	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

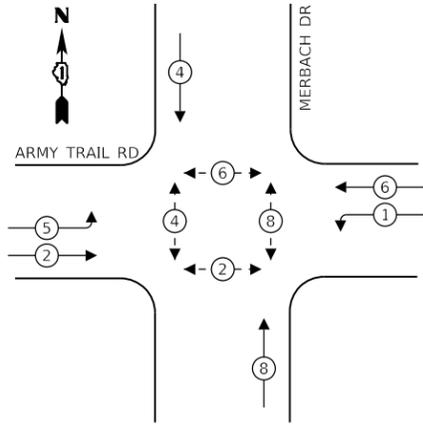
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
ARMY TRAIL RD AND KUHN RD / MADSEN DR**

SCALE: NTS SHEET 90 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	108
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

EXISTING CONTROLLER SEQUENCE



LEGEND:

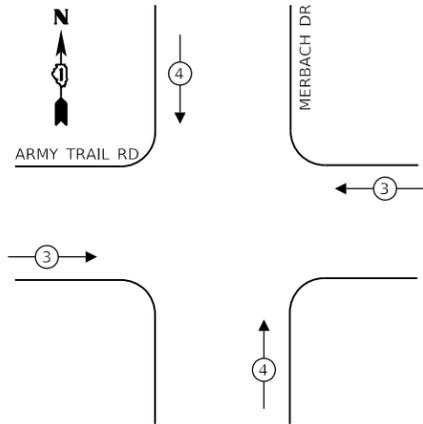
- ⊙ — PROTECTED PHASE
- ⊙ — — — PROTECTED/PERMITTED PHASE
- ⊙ — ⊙ — PEDESTRIAN PHASE
- ⊙ — OL — OVERLAP

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.

- 1 EACH CONTROLLER (ASC/2S-1000)

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONSTRUCTION NOTES:

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
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 =				686

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

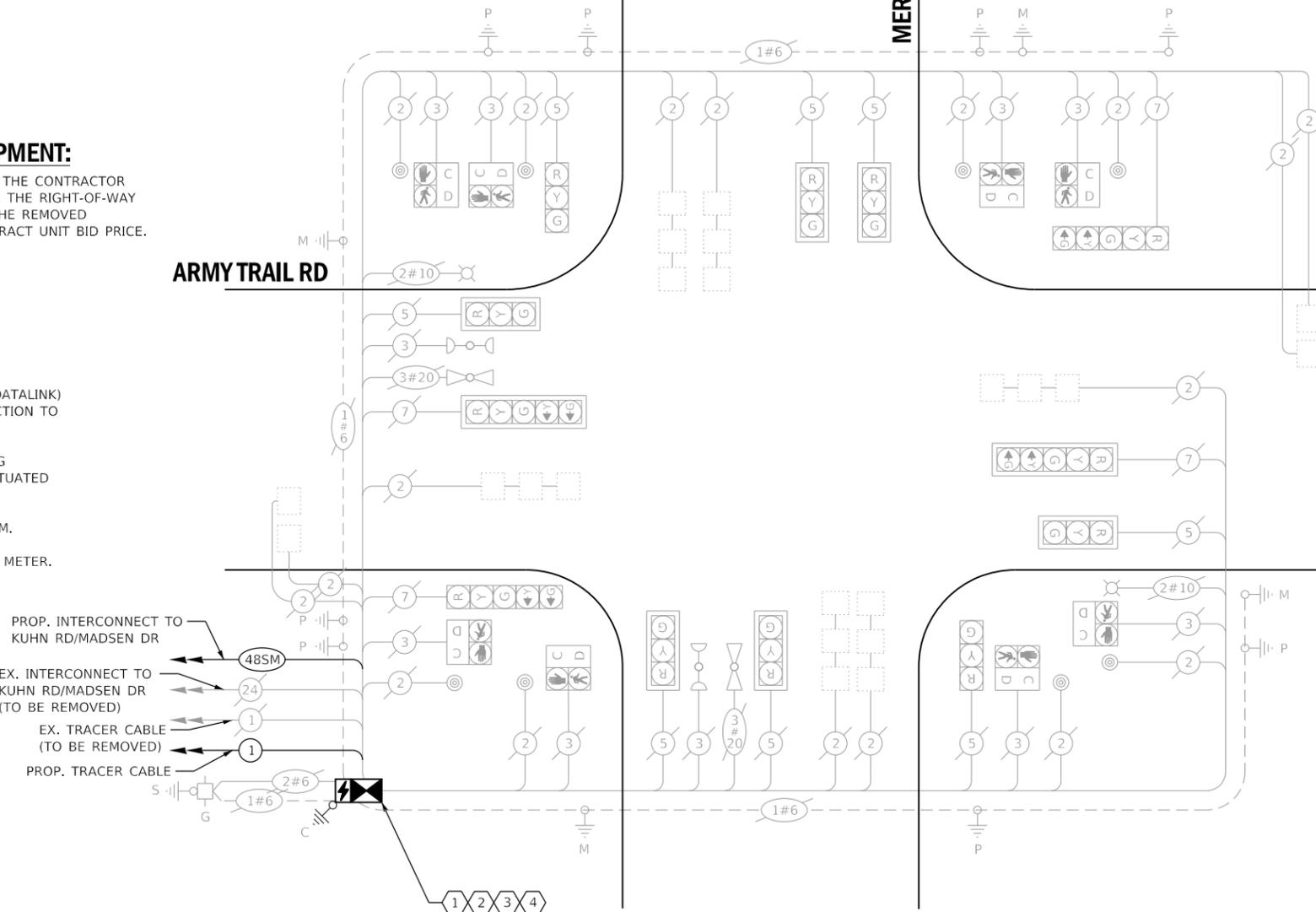
ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

ARMY TRAIL RD

MERBACH DR



CABLE PLAN
(NOT TO SCALE)

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	55	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

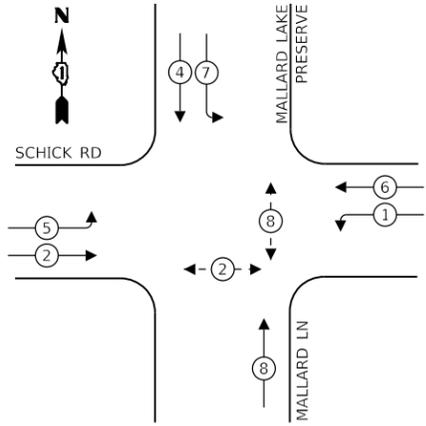
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
ARMY TRAIL RD AND MERBACH DR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	109
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

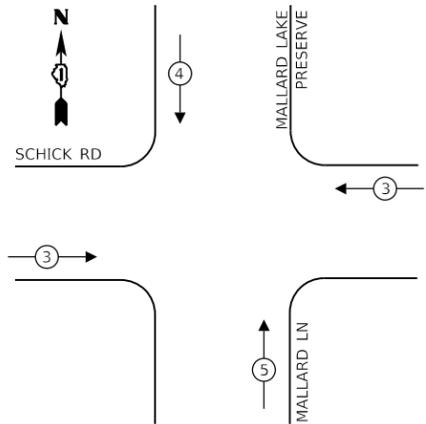
SCALE: NTS SHEET 91 OF 172 SHEETS STA. TO STA.

DUDOT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

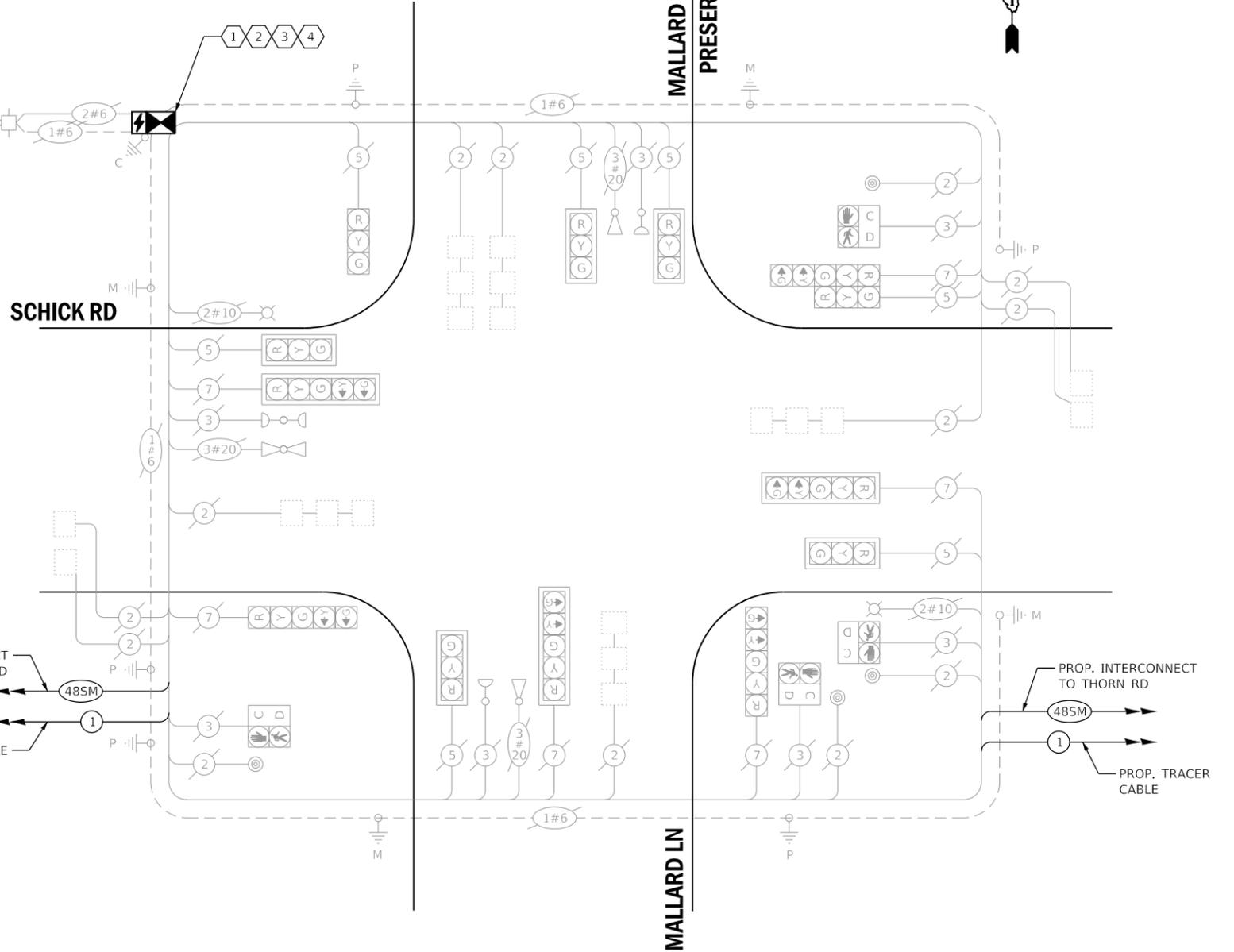
REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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.

- 1 EACH CONTROLLER (ASC/2S-1000)

CONSTRUCTION NOTES:

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



CABLE PLAN
(NOT TO SCALE)

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	71
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	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				623

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
ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
SCHICK RD AND MALLARD LN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	110
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

SCALE: NTS SHEET 92 OF 172 SHEETS STA. TO STA.

DUDOT



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 5 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL.
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING VIDEO DETECTION SYSTEM (COMPLETE).



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/25-1000)

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 PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH VIDEO DETECTION (COMPLETE)

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

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
117	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

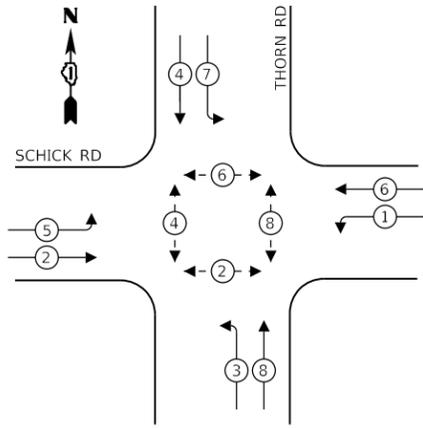
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
SCHICK RD AND THORN RD

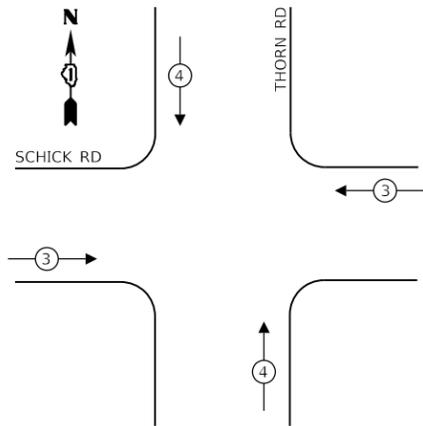
SCALE: SHEET 94 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	111
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H22	

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

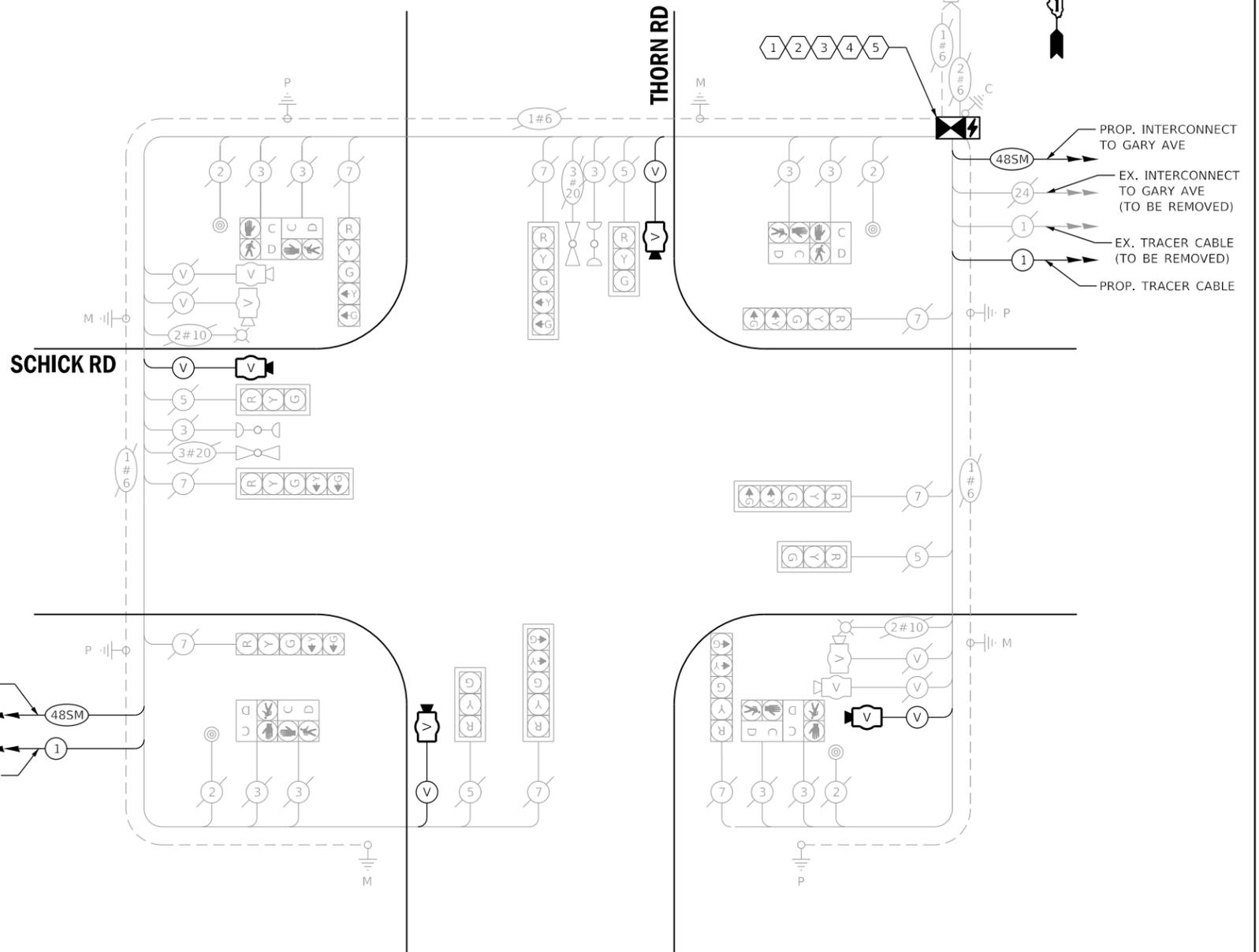
REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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.

- 1 EACH CONTROLLER (ASC/25-1000)
- 1 EACH VIDEO DETECTION COMPLETE

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- ③ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- ⑤ THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL



CABLE PLAN
(NOT TO SCALE)

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	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	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 =				844

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
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4098	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
SCHICK RD AND THORN RD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	112
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET SINTS111 OF 172 SHEETS STA. TO STA.

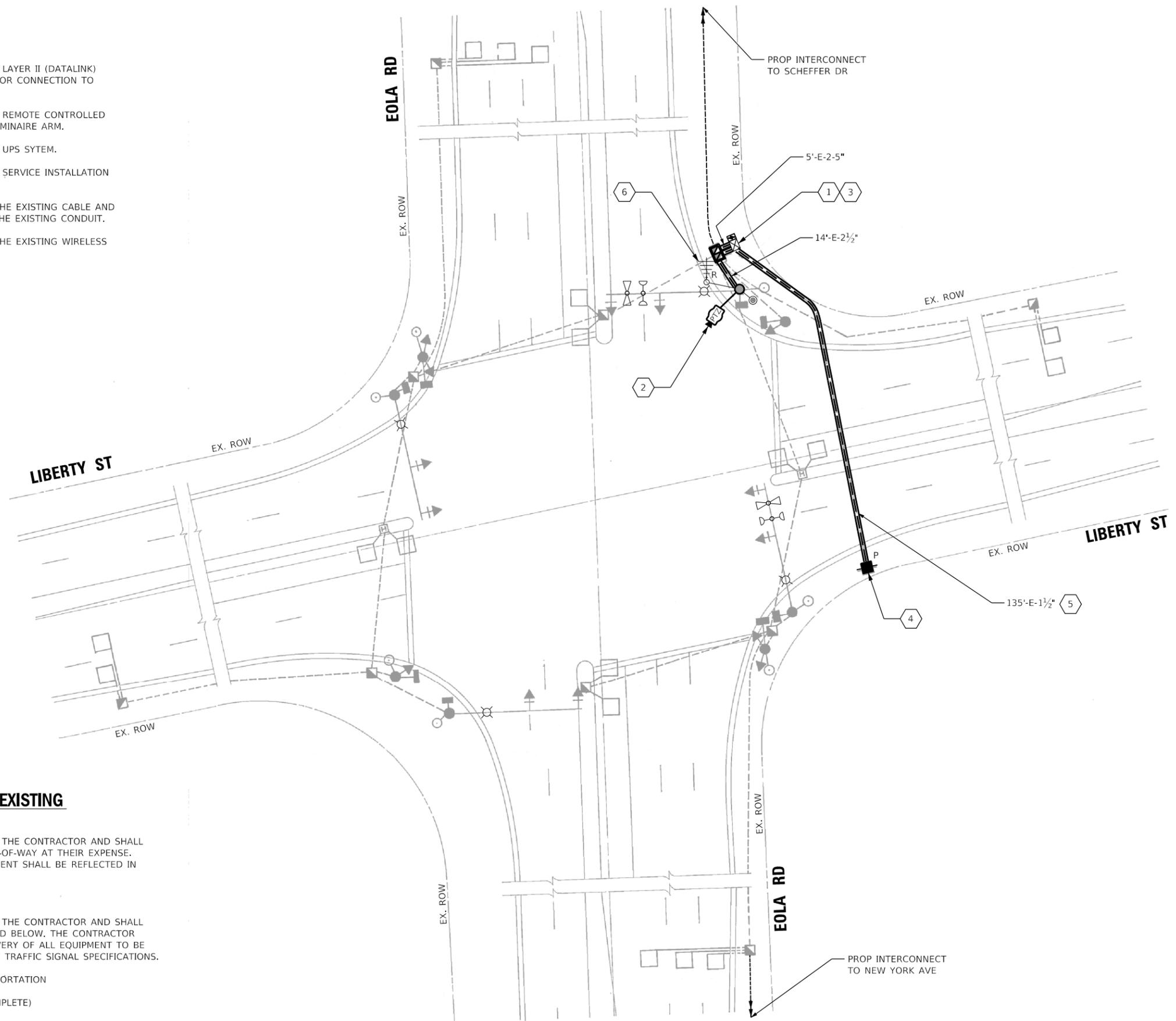
DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
117	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 4 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).



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 SERVICE INSTALLATION

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPOERTY 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

- 1 EACH WIRELESS INTERCONNECT (COMPLETE)

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
13	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

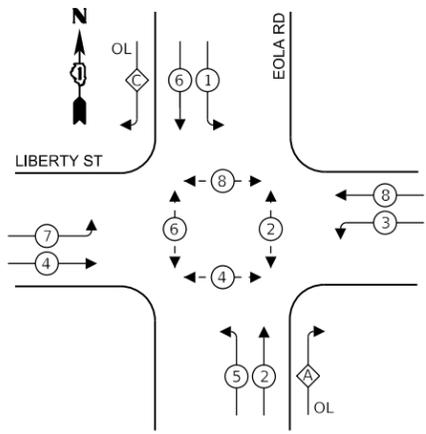
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
EOLA RD AND LIBERTY ST

SCALE: 1"=20' SHEET 95 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	113
			CONTRACT NO.	61H22
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



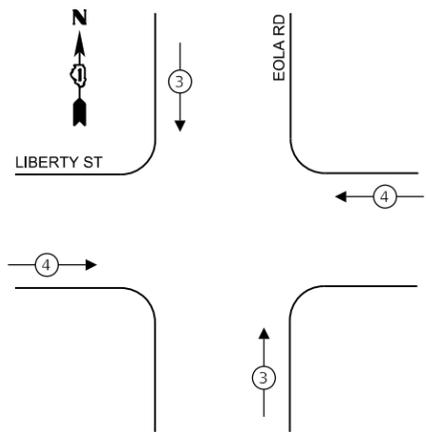
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	24	10	10	24
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 =				1051

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

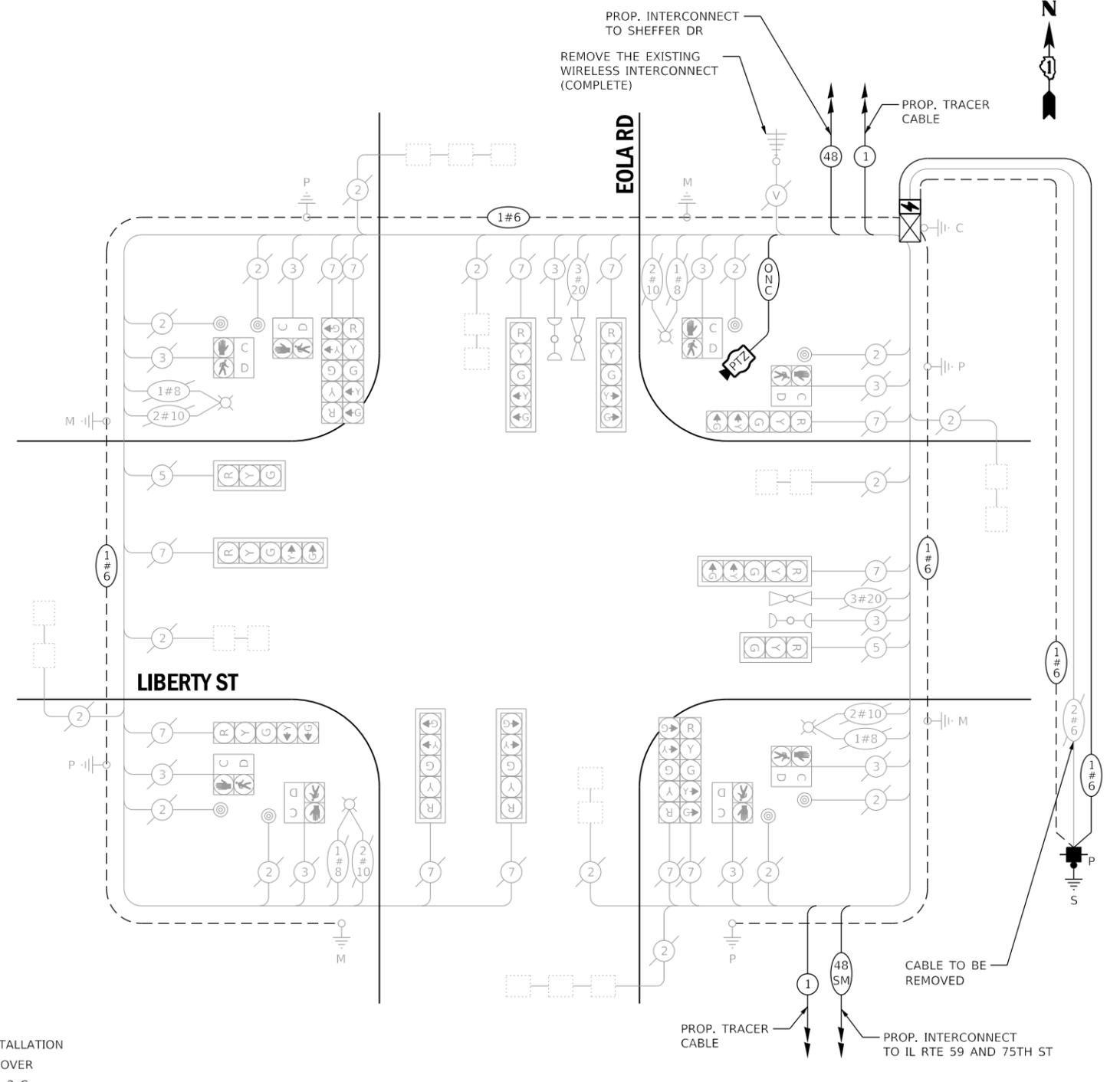
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER: _____

TOTAL QUANTITY	UNITS
1	EACH
7	EACH
155	FOOT
750	FOOT
135	FOOT
1	EACH
135	FOOT
105	FOOT
1	EACH

SCHEDULE OF QUANTITIES

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



CABLE PLAN
(NOT TO SCALE)

DLZ
USER NAME = zhoerbert
DESIGNED - ZH
DRAWN - RG
PLOT SCALE = 40,0000 ' / in.
CHECKED - DW
PLOT DATE = 8/2/2021
DATE -

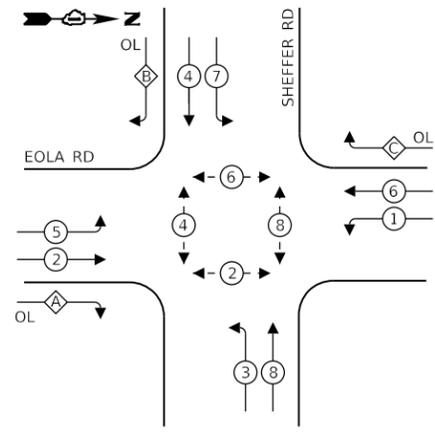
REVISIED -
REVISIED -
REVISIED -
REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
EOLA RD AND LIBERTY ST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	114
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).

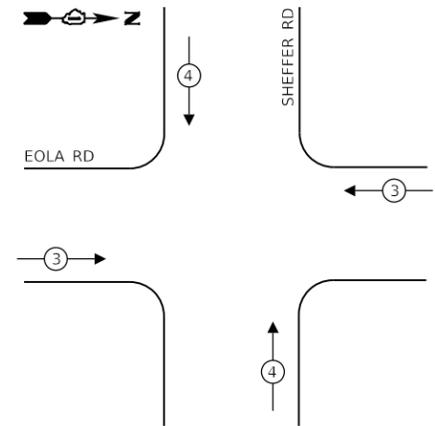
REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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

- 1 EACH WIRELESS INTERCONNECT (COMPLETE)

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	14	10	10	14
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 =				740

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

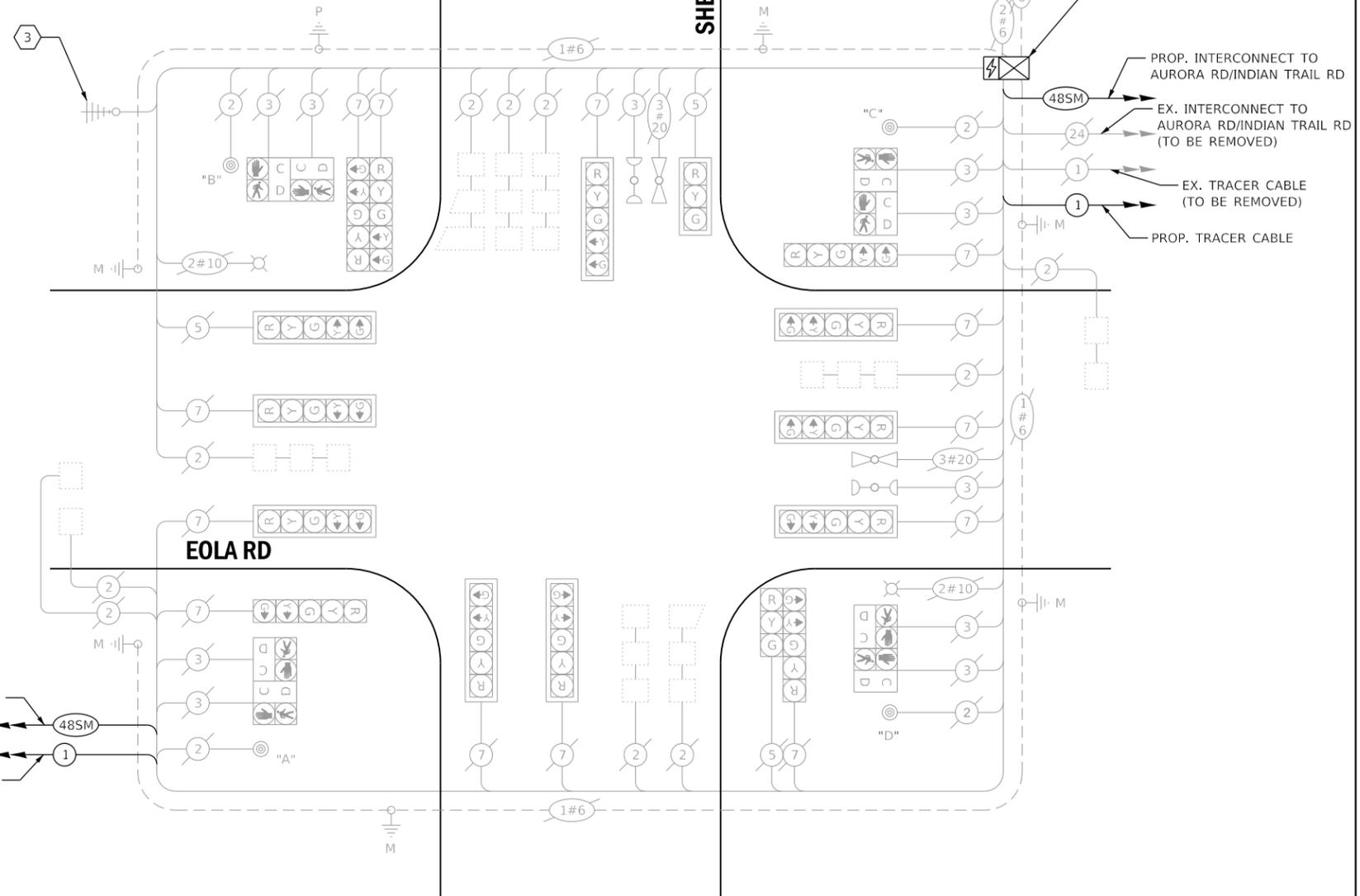
ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

PROP. INTERCONNECT TO LIBERTY ST
PROP. TRACER CABLE



CABLE PLAN
(NOT TO SCALE)

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 8 AND 2

DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
14	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

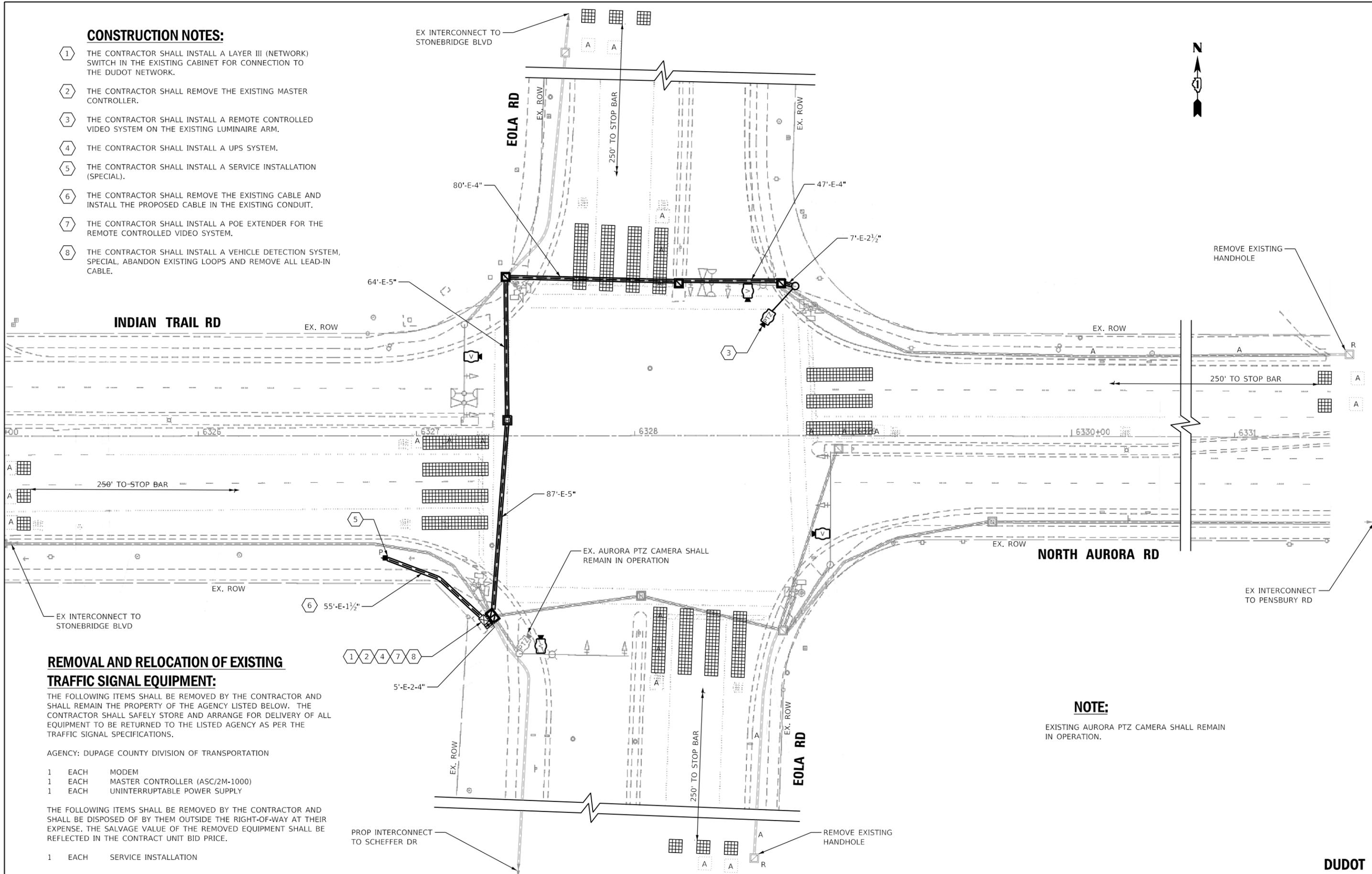
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
EOLA RD AND SHEFFER RD**

SCALE: SHEET 97 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	115
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING MASTER CONTROLLER.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 7 THE CONTRACTOR SHALL INSTALL A POE EXTENDER FOR THE REMOTE CONTROLLED VIDEO SYSTEM.
- 8 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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

- 1 EACH MODEM
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY

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 SERVICE INSTALLATION

NOTE:

EXISTING AURORA PTZ CAMERA SHALL REMAIN IN OPERATION.



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
15	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

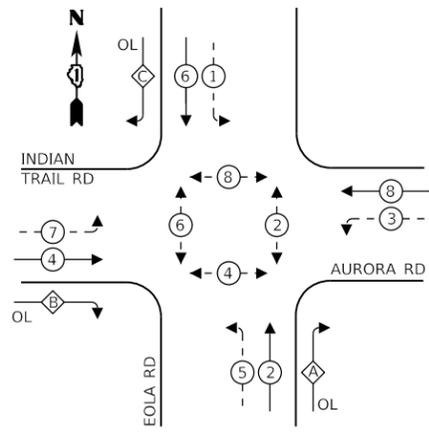
TRAFFIC SIGNAL MODERNIZATION PLAN
EOLA RD AND INDIAN TR/NORTH AURORA RD

SCALE: SHEET 98 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	116
			CONTRACT NO.	61H22
ILLINOIS FED. AID PROJECT				

DUDOT

EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ — OVERLAP

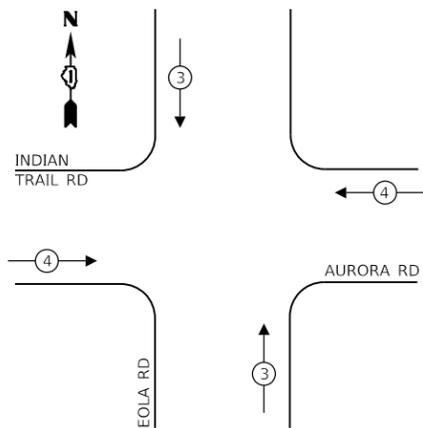
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7

NOTE:

EXISTING AURORA PTZ CAMERA SHALL REMAIN IN OPERATION.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	28	10	10	28
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	2	75	100	150
TOTAL =				804

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

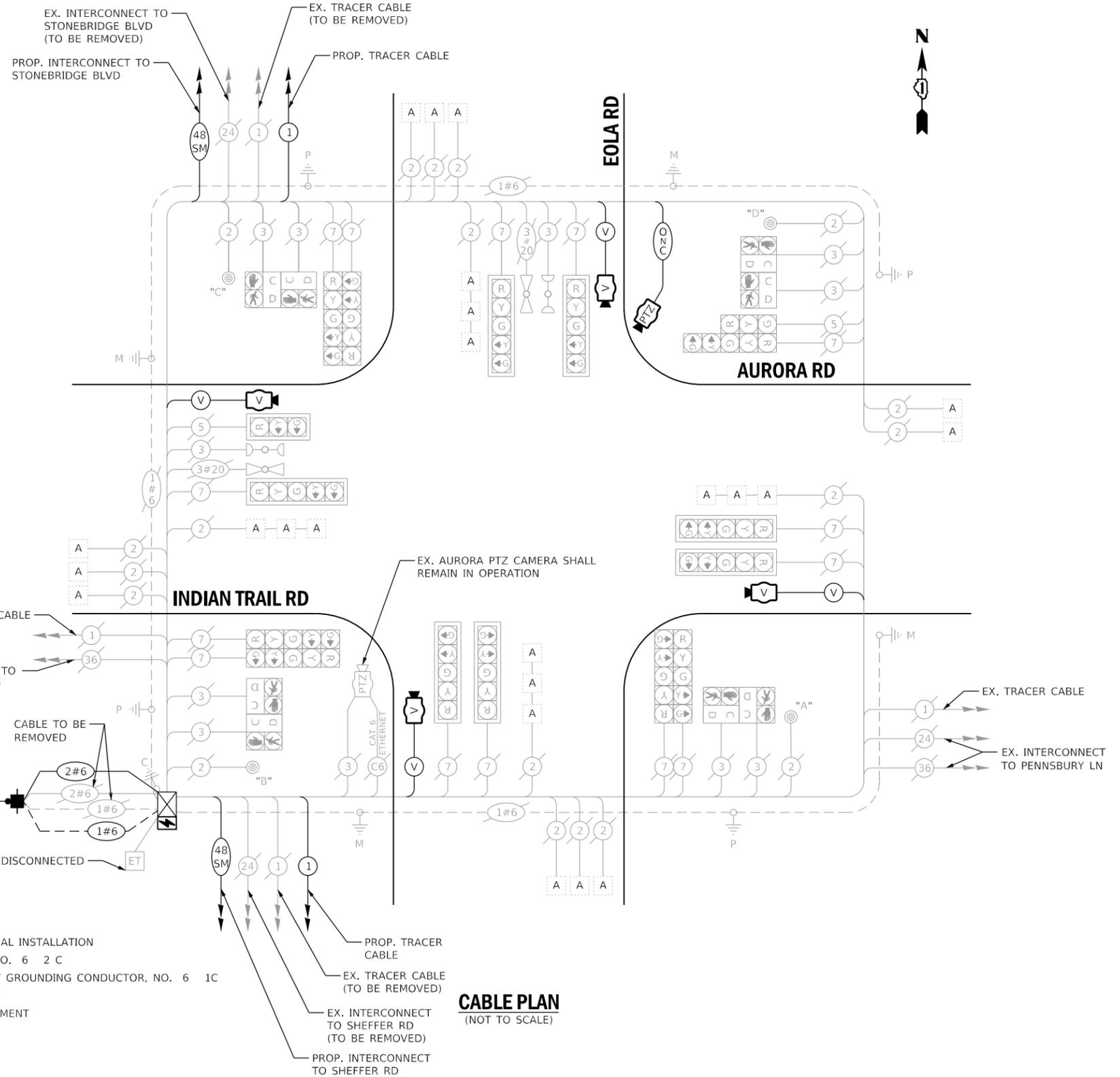
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
75	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
75	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
2352	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE EXISTING HANDHOLE
55	FOOT	ROD AND CLEAN EXISTING CONDUIT
380	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL
1	EACH	POE EXTENDER

SCHEDULE OF QUANTITIES



CABLE PLAN (NOT TO SCALE)

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 8 AND 2



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
15	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/>		

CHECKED - DW	DATE -
DATE -	REVISED -

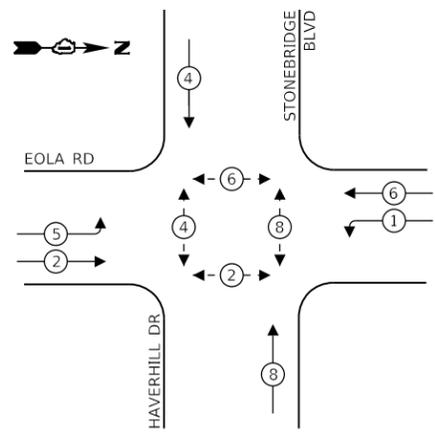
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
EOLA RD AND N AURORA RD/INDIAN TRAIL RD

SCALE: SHEET 99 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	117
CONTRACT NO. 61H22			ILLINOIS FED. AID PROJECT	

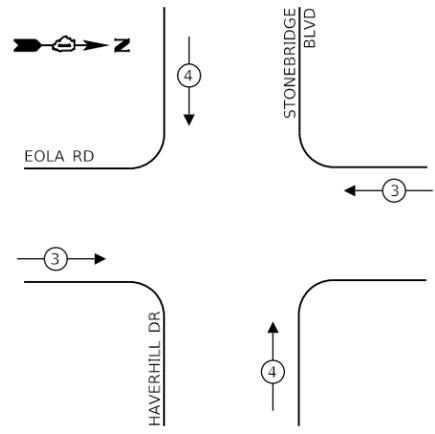
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊖ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
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 =				686

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
ACCOUNT NUMBER: _____

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- ③ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

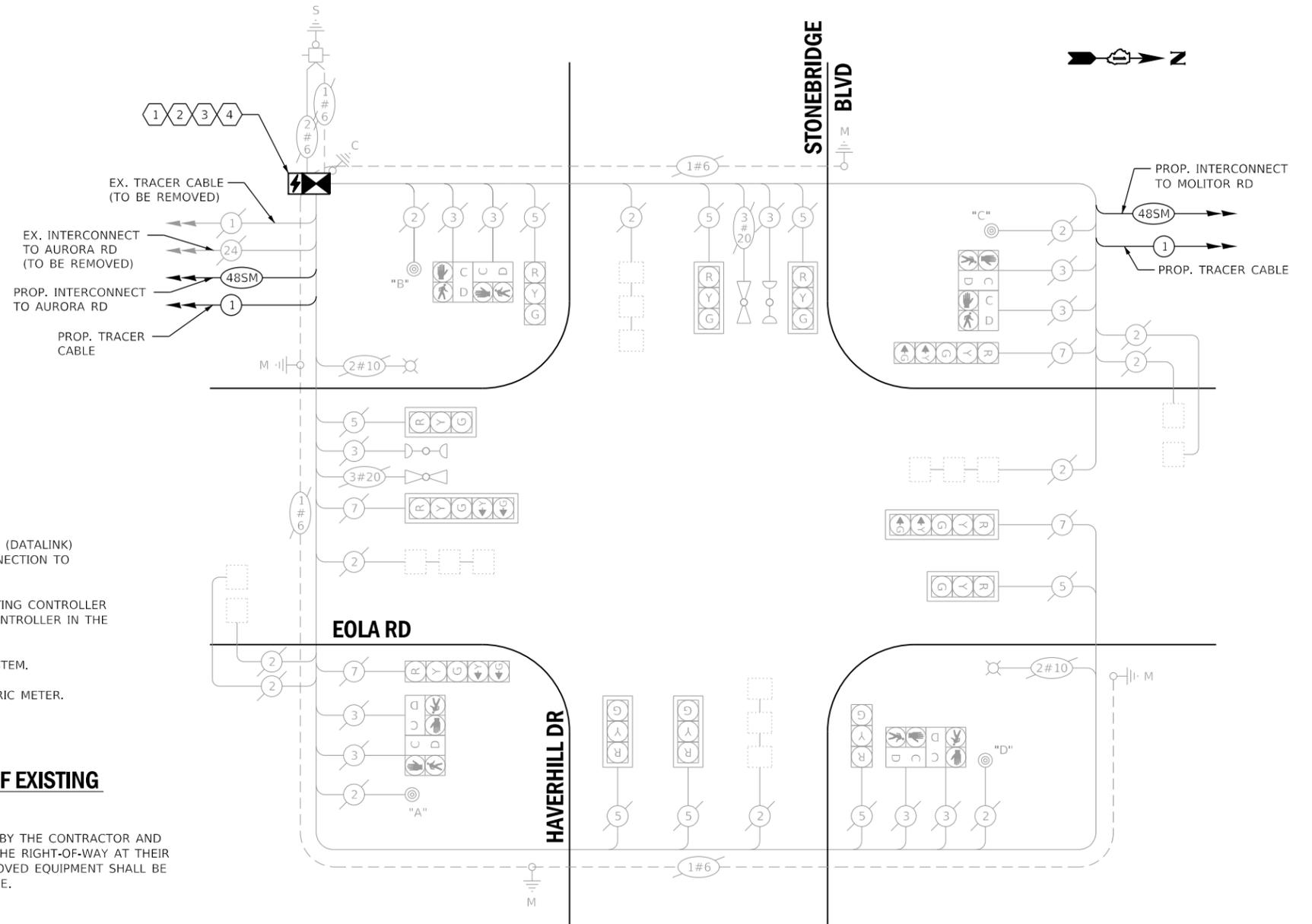
REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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/2-2100)

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



CABLE PLAN
(NOT TO SCALE)

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

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



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
18	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
EOLA RD AND STONEBRIDGE BLVD

SCALE: SHEET 100 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCC55-03-TL	DUPAGE	307	118
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

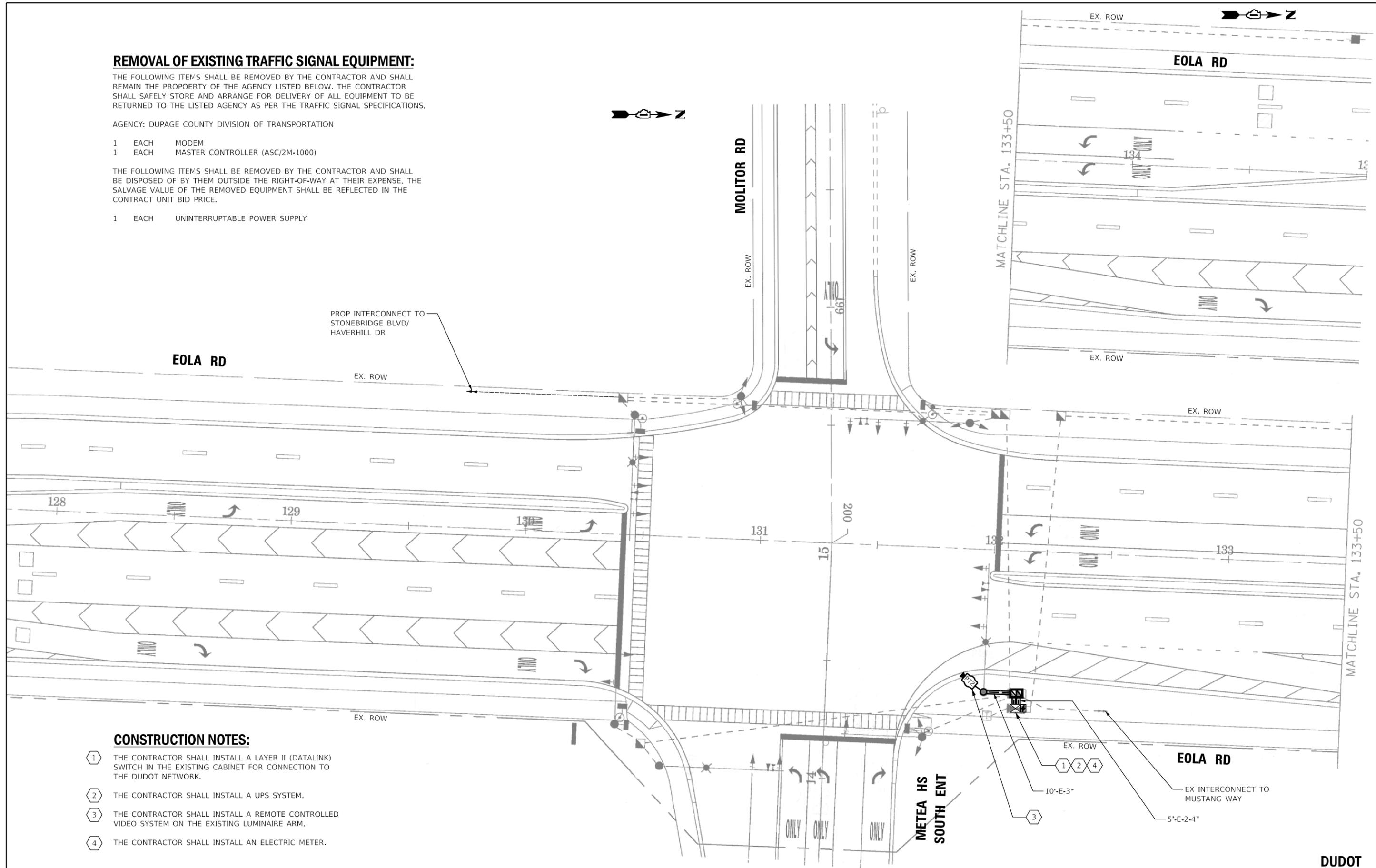
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH MODEM
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)

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 UNINTERRUPTABLE POWER SUPPLY



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
19	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

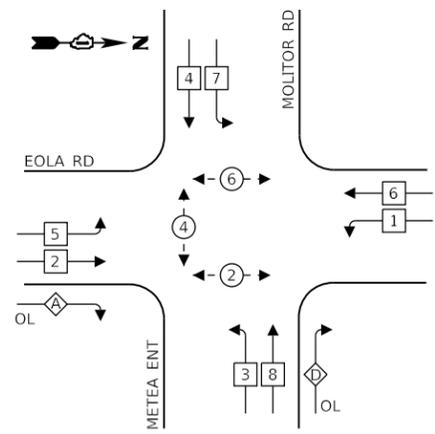
TRAFFIC SIGNAL MODERNIZATION PLAN
EOLA RD AND MOLITOR RD/METEA HS SOUTH ENT

SCALE: 1"=20' SHEET 101 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	119
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

DUDOT

EXISTING CONTROLLER SEQUENCE



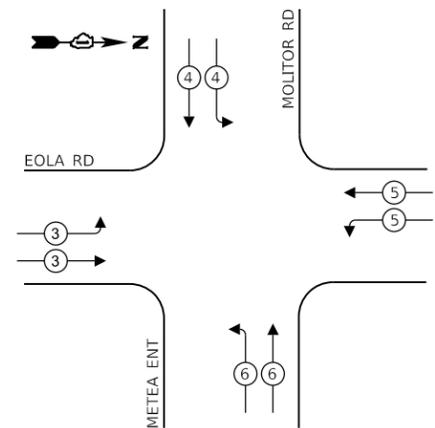
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110
(YELLOW)	20	20	5	20
(GREEN)	20	12	45	108
PERMISSIVE ARROW	8	10	10	8
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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1066

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
ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
105	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

PROP. TRACER CABLE

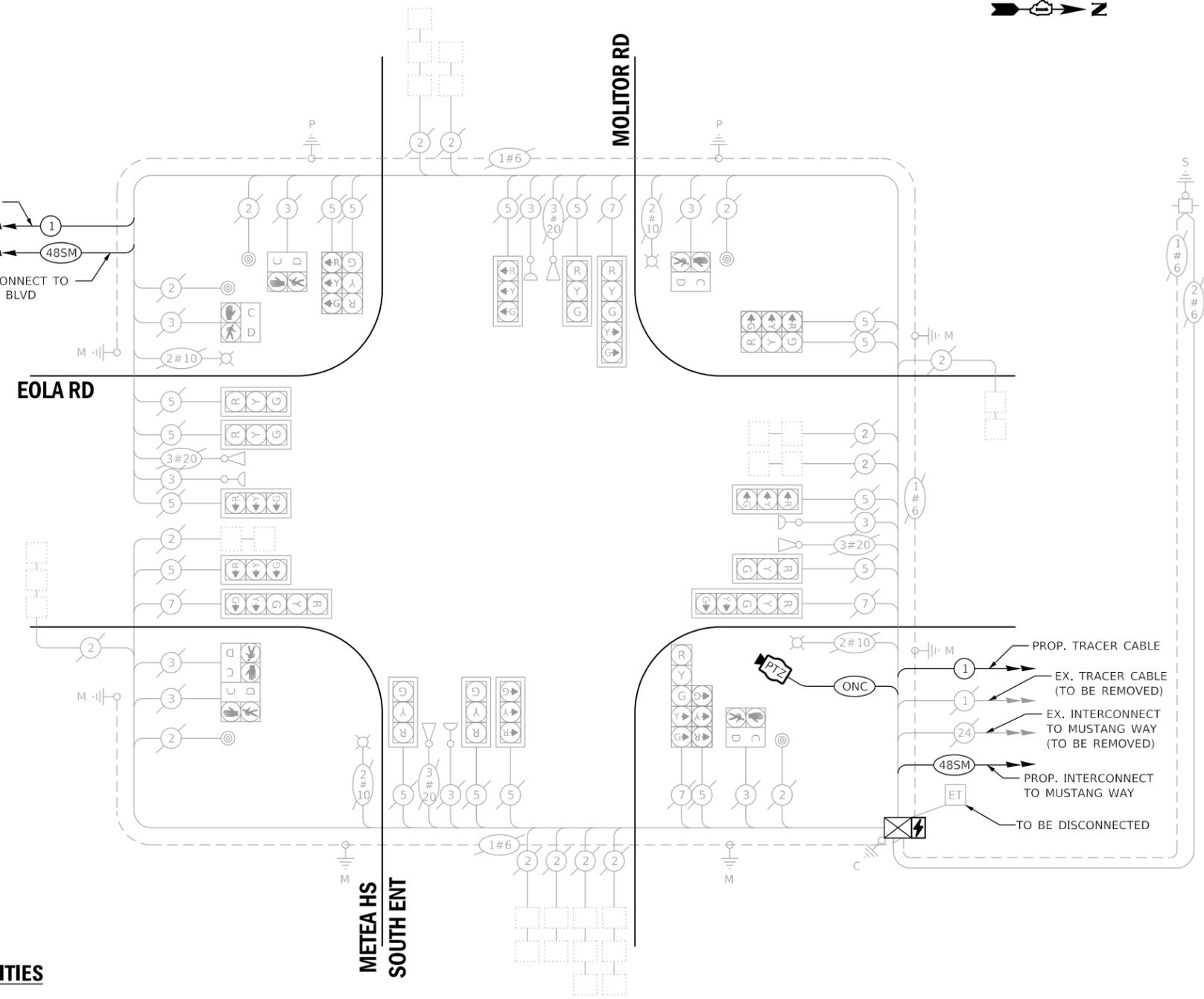
PROP. INTERCONNECT TO STONEBRIDGE BLVD

EOLA RD

MOLITOR RD

METEA HS SOUTH ENT

CABLE PLAN
(NOT TO SCALE)



- PROP. TRACER CABLE
- EX. TRACER CABLE (TO BE REMOVED)
- EX. INTERCONNECT TO MUSTANG WAY (TO BE REMOVED)
- PROP. INTERCONNECT TO MUSTANG WAY
- TO BE DISCONNECTED

USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
19	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

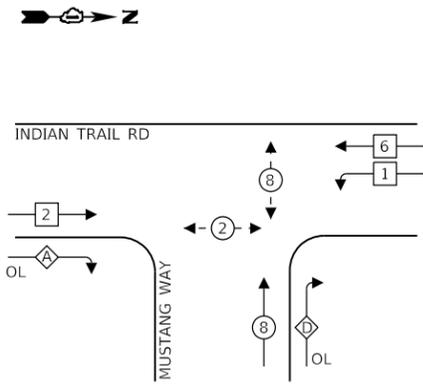
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
EOLA RD AND MOLITOR RD/METEA HS SOUTH ENT

SCALE: SHEET 102 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	120
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← [*] ← SINGLE ENTRY PHASE
- ← [*] ← PROTECTED PHASE
- ← - [*] ← PROTECTED/PERMITTED PHASE
- ← [*] → PEDESTRIAN PHASE
- ← [*] → OL OVERLAP

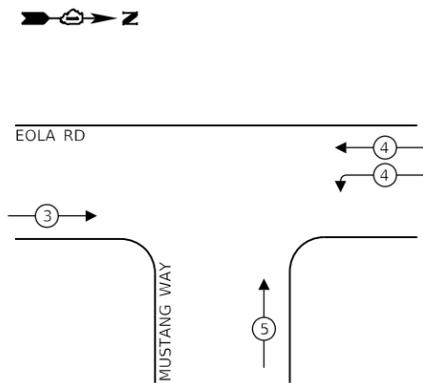
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
D	= 8	+ 1

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	83
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
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	-	120	50	-
LUMINAIRE	3	250	50	375
PTZ CAMERA	-	75	100	-
TOTAL =				767

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
ACCOUNT NUMBER:

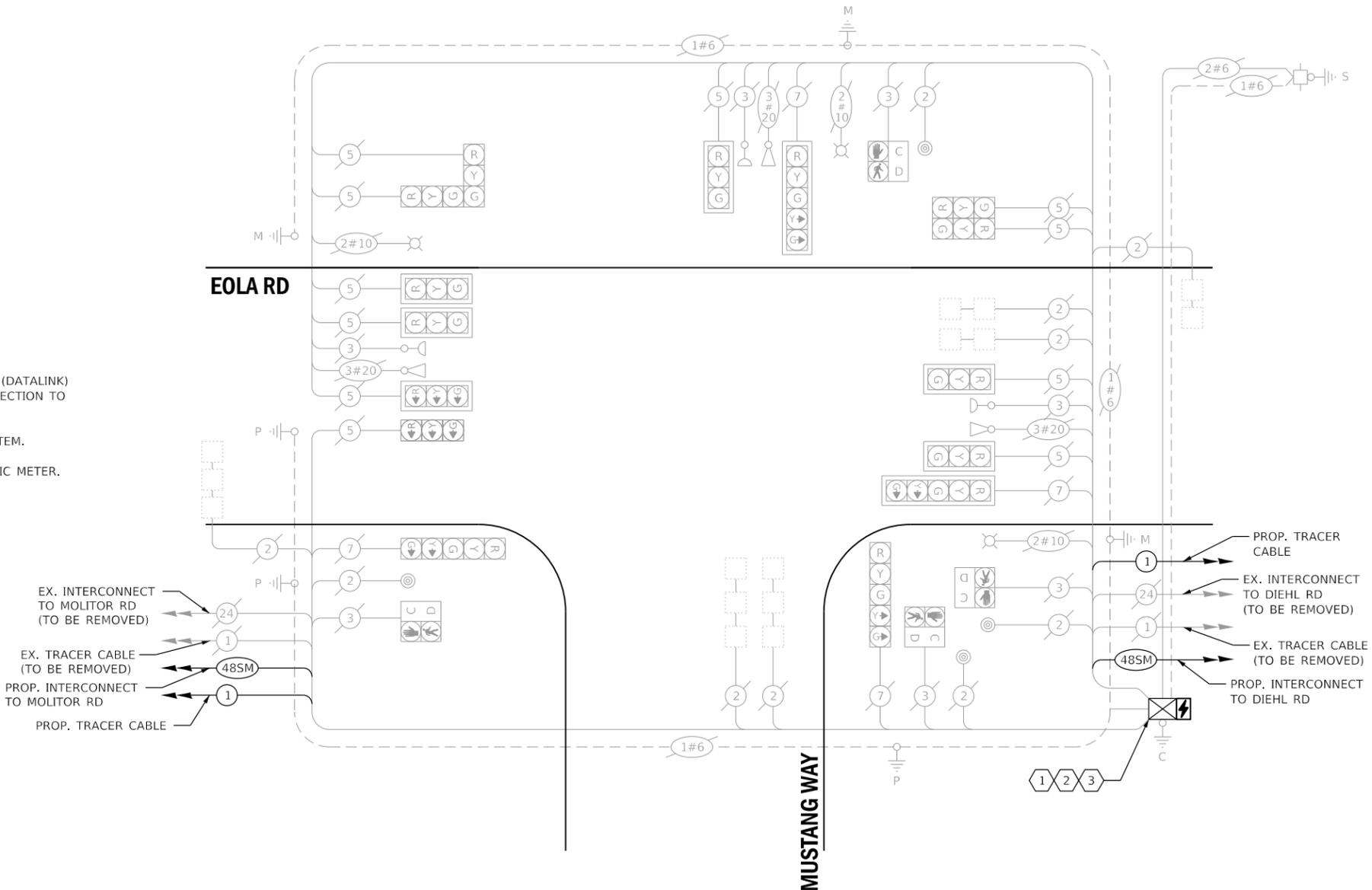
TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
(NOT TO SCALE)



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 UNINTERRUPTABLE POWER SUPPLY

DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
20	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
EOLA RD AND MUSTANG WAY

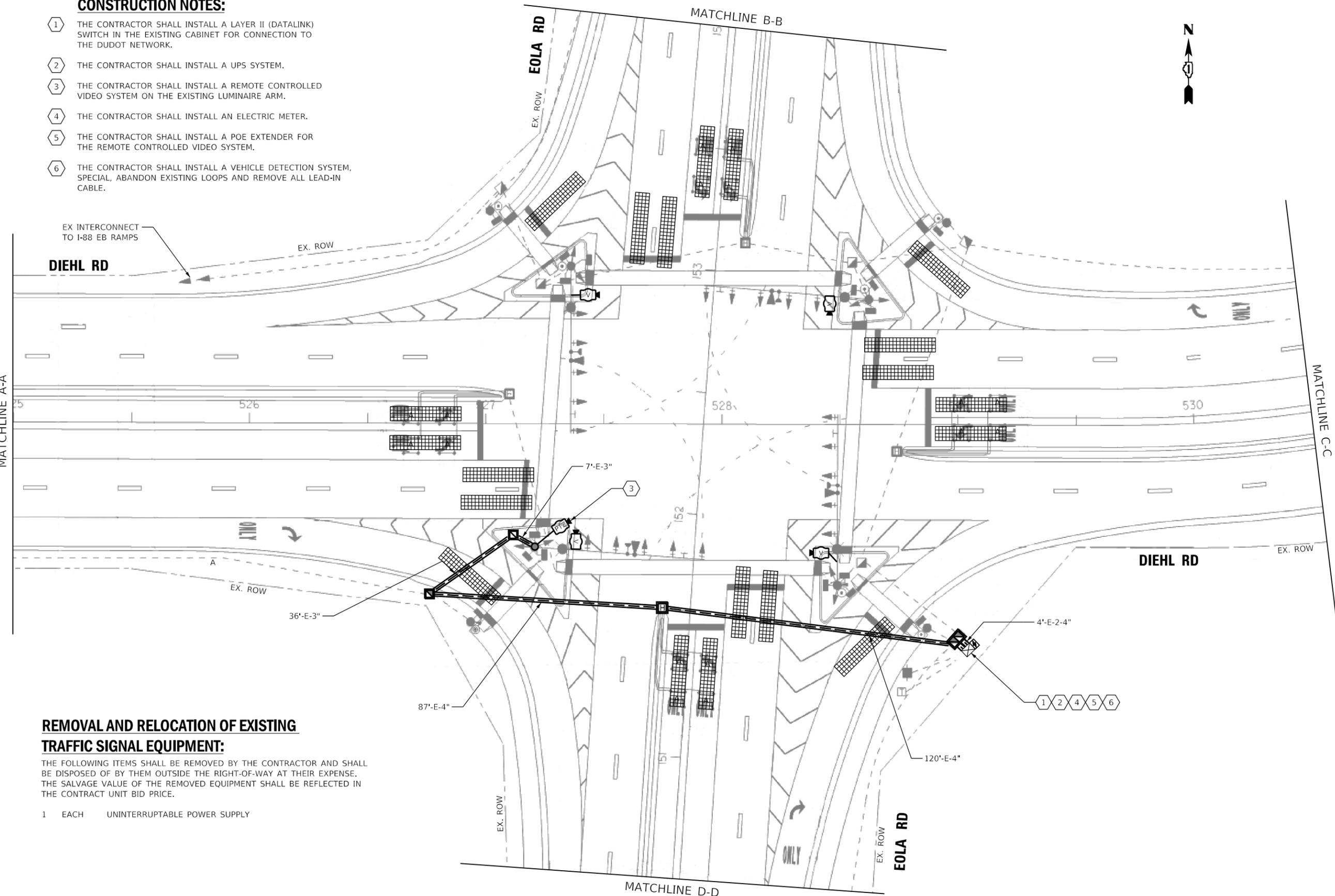
SCALE: SHEET 103 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	121
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- ⑤ THE CONTRACTOR SHALL INSTALL A POE EXTENDER FOR THE REMOTE CONTROLLED VIDEO SYSTEM.
- ⑥ THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.

MATCHLINE A-A



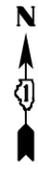
REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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 UNINTERRUPTABLE POWER SUPPLY

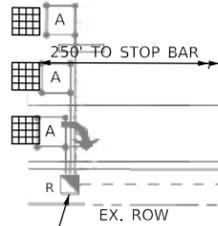
DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN EOLA RD AND DIEHL RD - (SHEET 1 OF 2)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21	DRAWN - RG	REVISED -			VAR.	19-DCCSS-03-TL	DUPAGE	307	122
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -					CONTRACT NO. 61H22		
	PLOT DATE = 8/2/2021	DATE -	REVISED -					ILLINOIS FED. AID PROJECT		



DIEHL RD
EX. ROW

MATCHLINE A-A



REMOVE EXISTING
HANDHOLE

EX. ROW

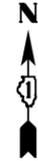
EX INTERCONNECT TO
I-88 WB RAMP

EOLA RD

EX. ROW

250' TO STOP BAR

ONLY



MATCHLINE B-B

MATCHLINE D-D

EX. ROW

150'

250' TO STOP BAR

EOLA RD

EX. ROW



EX INTERCONNECT TO
MUSTANG WAY



250' TO STOP BAR

531

53'

MATCHLINE C-C

DIEHL RD

EX. ROW

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
21	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

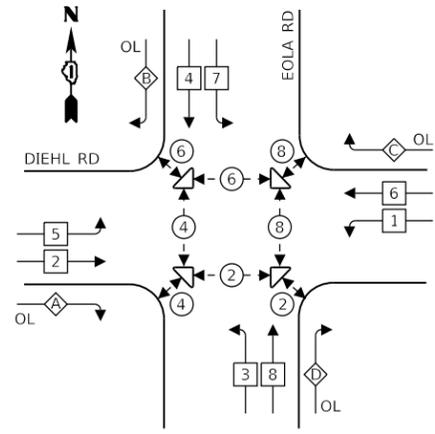
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
EOLA RD AND DIEHL RD - (SHEET 2 OF 2)

SCALE: SHEET 105 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	123
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

EXISTING CONTROLLER SEQUENCE



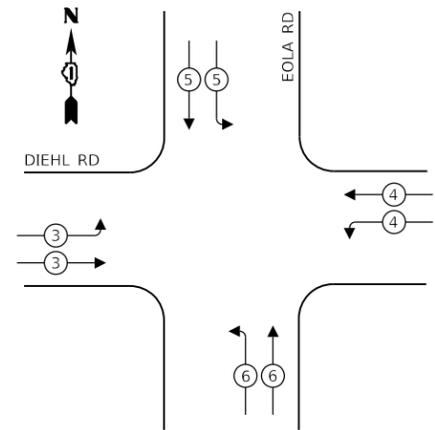
LEGEND:

- ←[*] SINGLE ENTRY PHASE
- ←[*] PROTECTED PHASE
- ←-[*]- PROTECTED/PERMITTED PHASE
- ←[*] PEDESTRIAN PHASE
- ←[*] OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	28	11	50	154
(YELLOW)	28	20	5	28
(GREEN)	28	12	45	152
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	16	20	100	320
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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1520

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

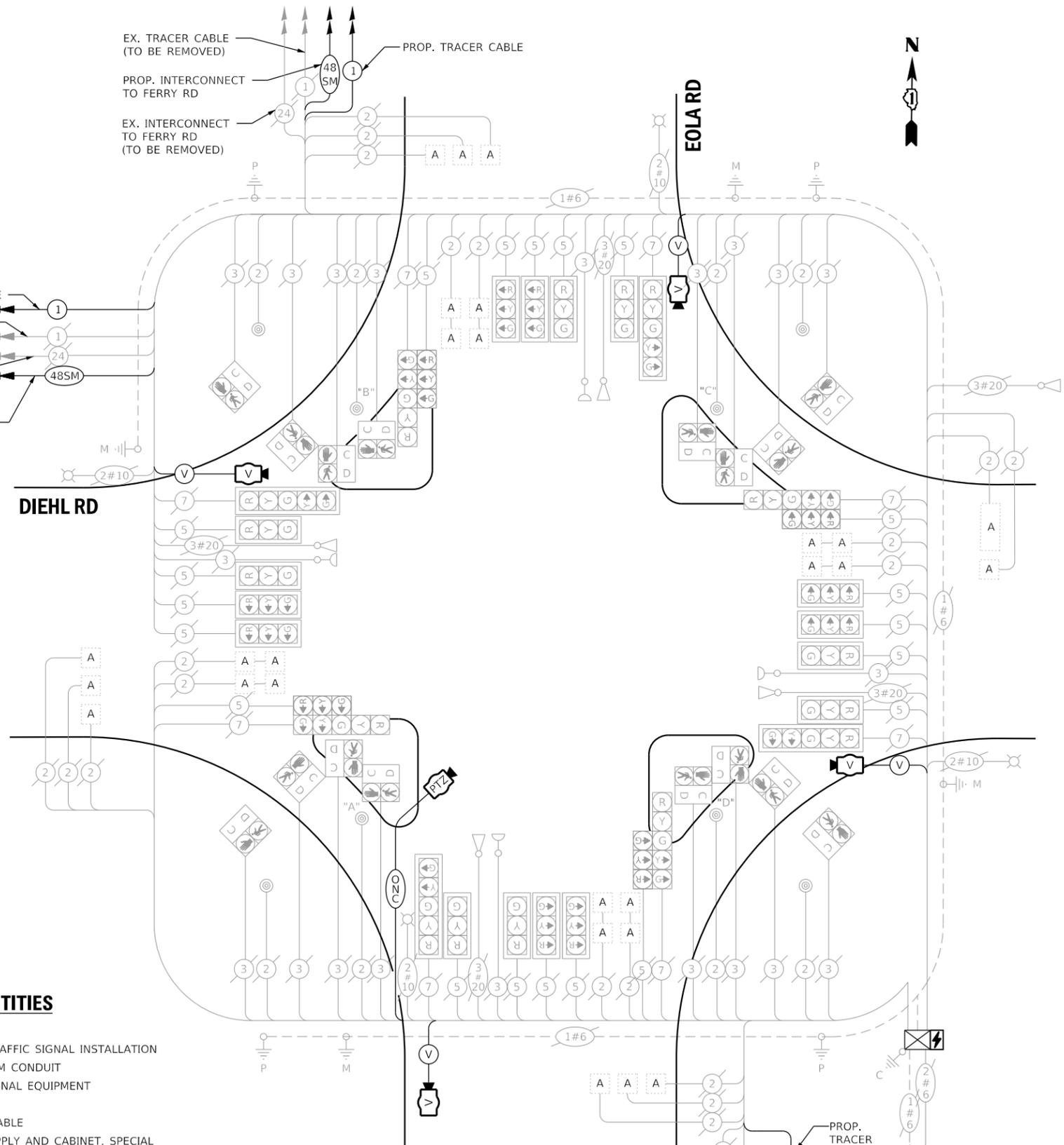
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

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.

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7000	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
355	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL
1	EACH	POE EXTENDER



CABLE PLAN

(NOT TO SCALE)

EX. INTERCONNECT TO MUSTANG WAY (TO BE REMOVED)
EX. TRACER CABLE (TO BE REMOVED)
PROP. TRACER CABLE
PROP. INTERCONNECT TO MUSTANG WAY

USER NAME	DESIGNED	REVISION
= zhoerbert	- ZH	-
21	- RG	-
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISION -
PLOT DATE = 8/2/2021	DATE -	REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
EOLA RD AND DIEHL RD**

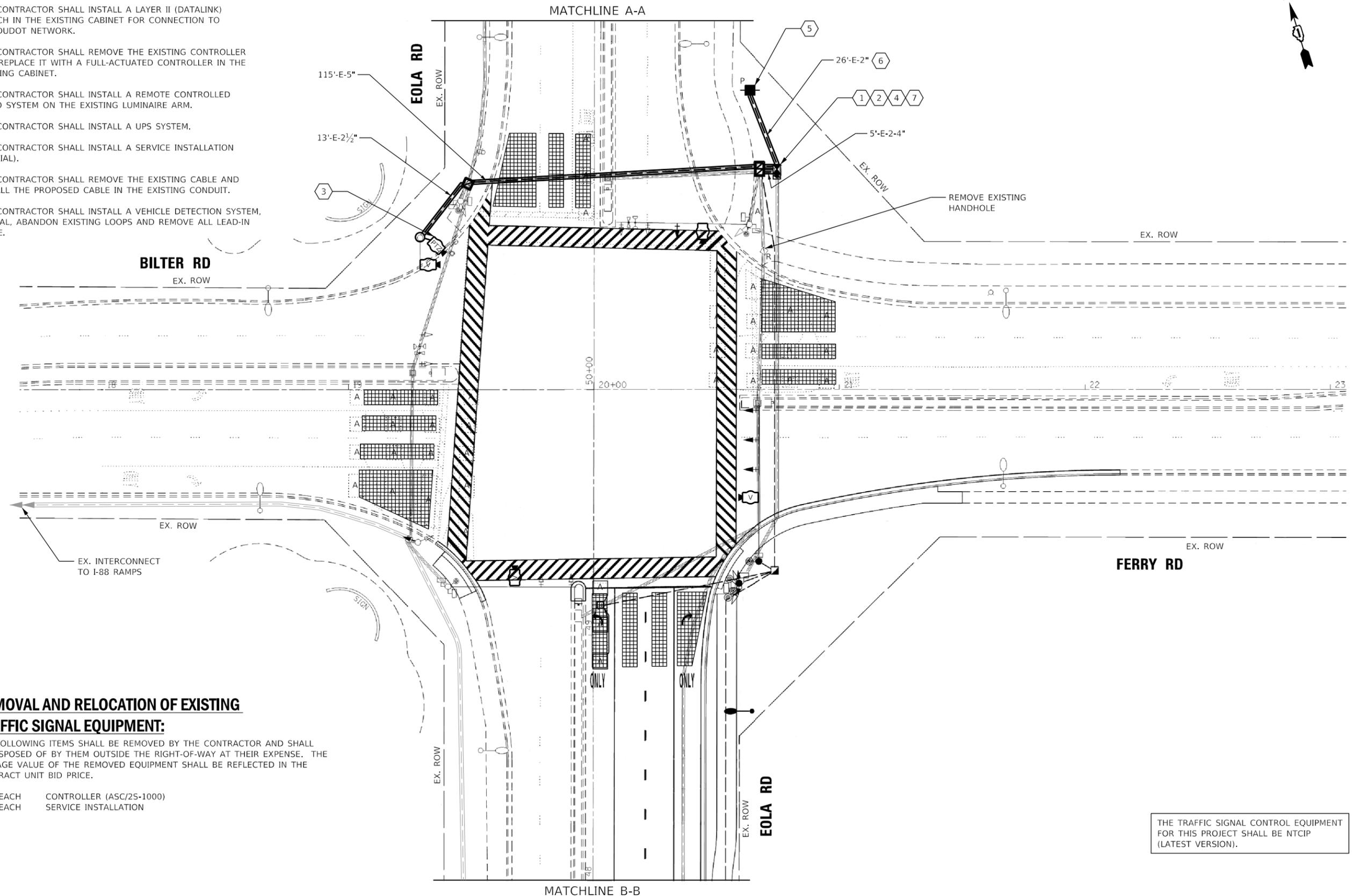
SCALE: SHEET 106 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	124
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 7 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



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-1000)
- 1 EACH SERVICE INSTALLATION

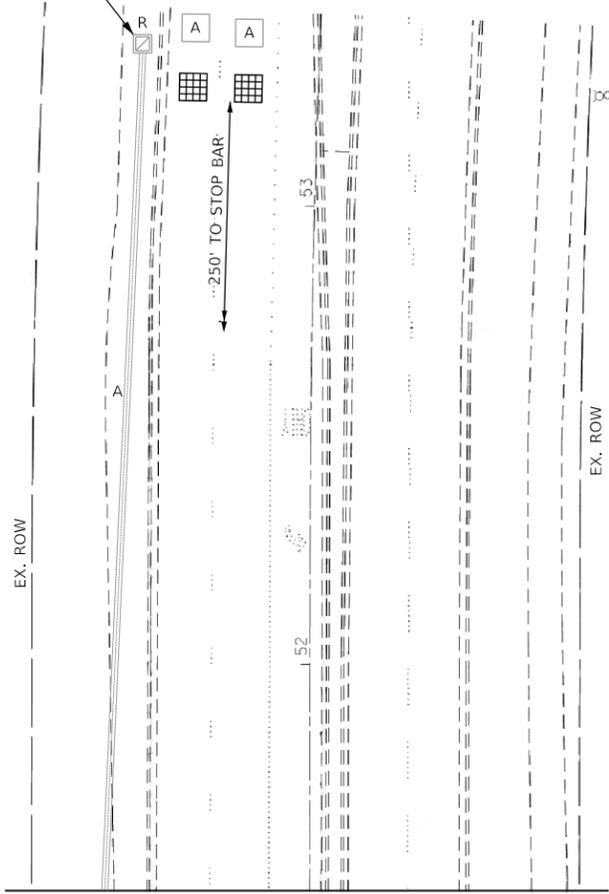
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

DUDOT

DLZ	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN EOLA RD AND FERRY RD/BILTER RD - (SHEET 1 OF 2)				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	23	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 107	OF 172 SHEETS	STA.	TO STA.	VAR.	19-DCCSS-03-TL	DUPAGE	307
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -										CONTRACT NO. 61H22
	PLOT DATE = 8/2/2021	DATE -	REVISED -										ILLINOIS FED. AID PROJECT

REMOVE EXISTING HANDHOLE

EOLA RD

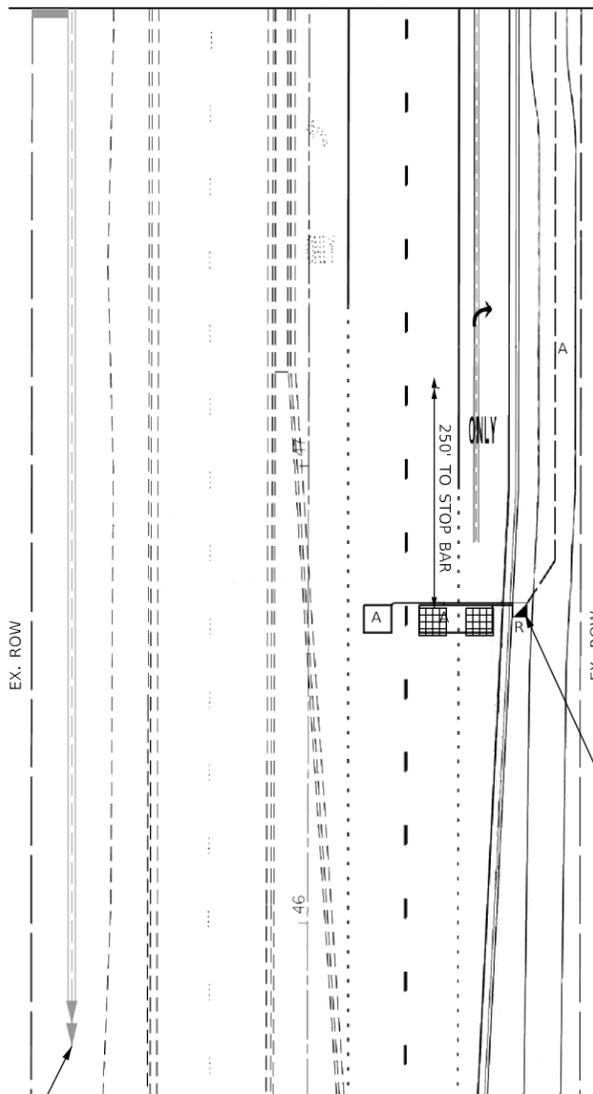


MATCHLINE A-A



MATCHLINE B-B

EOLA RD



REMOVE EXISTING HANDHOLE



EX. INTERCONNECT TO DIEHL RD



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
23	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

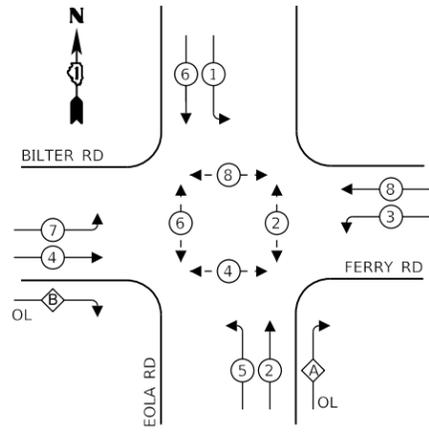
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
EOLA RD AND FERRY RD/BILTER RD - (SHEET 2 OF 2)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	126
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

SCALE: 1"=20' SHEET 108 OF 172 SHEETS STA. TO STA.

EXISTING CONTROLLER SEQUENCE



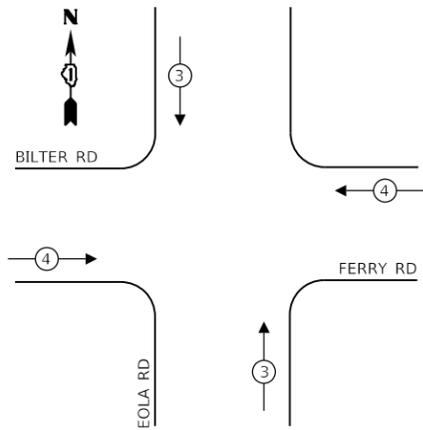
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	24	10	10	24
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				975

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

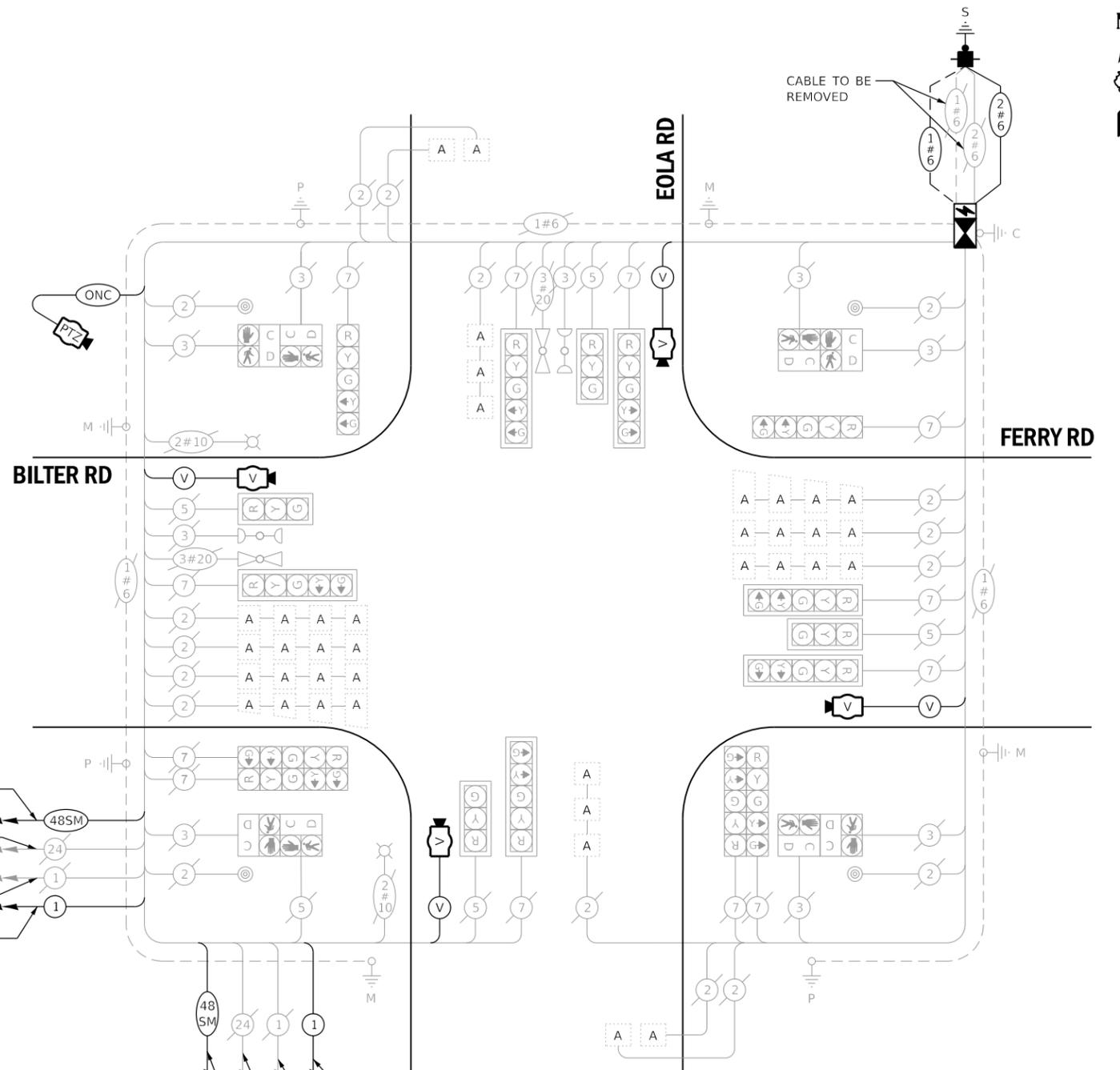
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
45	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
45	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
3130	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
26	FOOT	ROD AND CLEAN EXISTING CONDUIT
220	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
45	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
45	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
3130	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
26	FOOT	ROD AND CLEAN EXISTING CONDUIT
220	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



- PROP. INTERCONNECT TO I-88 RAMPS
- EX. INTERCONNECT TO I-88 RAMPS (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE
- PROP. TRACER CABLE
- EX. TRACER CABLE (TO BE REMOVED)
- EX. INTERCONNECT TO DIEHL RD (TO BE REMOVED)
- PROP. INTERCONNECT TO DIEHL RD

CABLE PLAN
(NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	23	DRAWN - RG	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

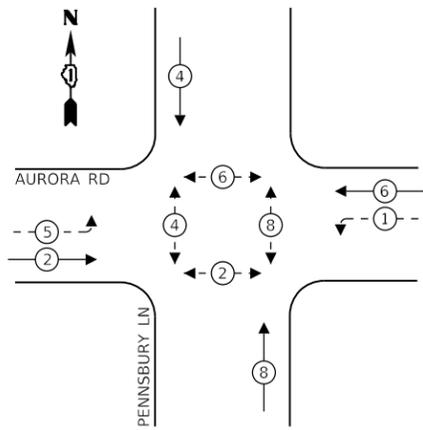
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
EOLA RD AND FERRY RD/BILTER RD

SCALE: SHEET 109 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	127
CONTRACT NO. 61H22			ILLINOIS FED. AID PROJECT	

DUDOT

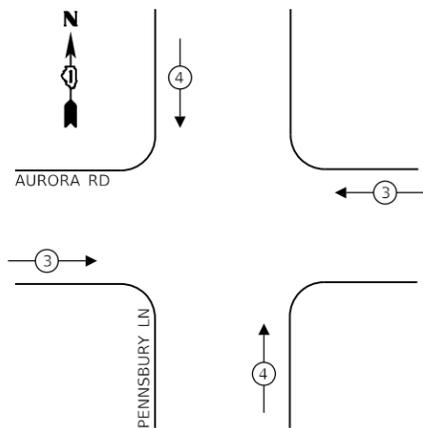
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

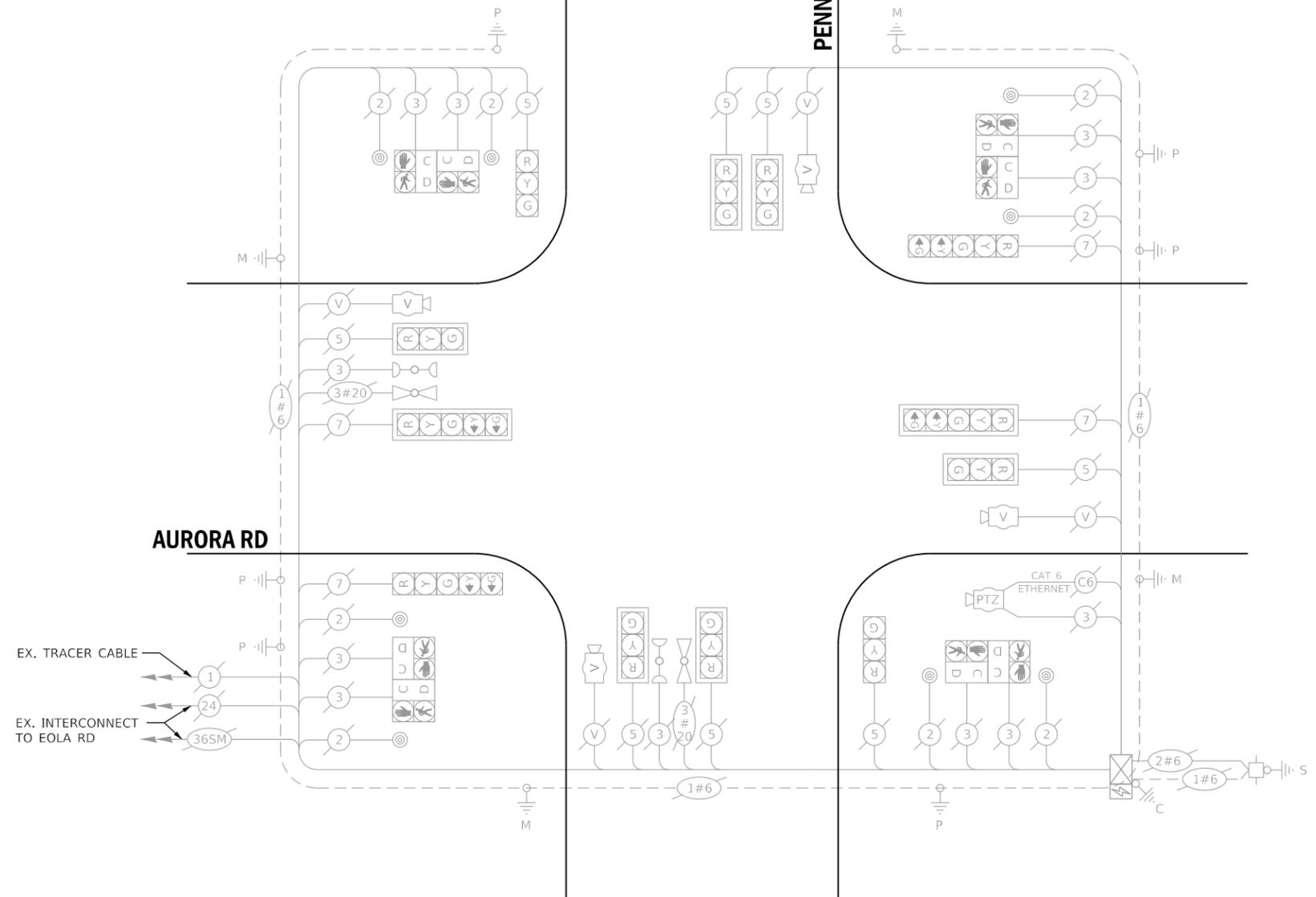
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	8	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				621

ENERGY COSTS TO:

CITY OF AURORA

44 E DOWNER PLACE
AURORA, IL 60507

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER: _____



CABLE PLAN
(NOT TO SCALE)

FOR INFORMATION ONLY

AURORA



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
16	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

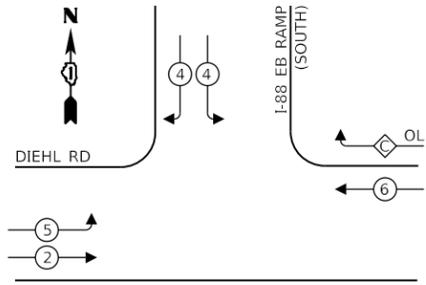
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
AURORA RD AND PENSURBY LN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL		307	128
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

SCALE: SHEET 110 OF 172 SHEETS STA. TO STA.

EXISTING CONTROLLER SEQUENCE



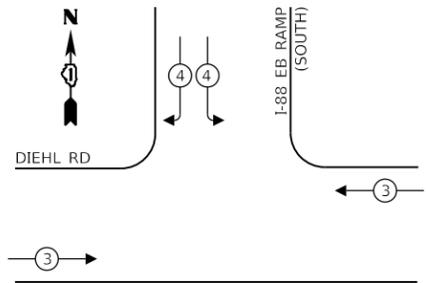
LEGEND:

- ⊙ — PROTECTED PHASE
- ⊖ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	=	CONTINUOUS (HOT)

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	61
(YELLOW)	11	20	5	11
(GREEN)	12	12	45	65
PERMISSIVE ARROW	6	10	10	6
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				493

ENERGY COSTS TO:

CITY OF AURORA

44 E DOWNER PLACE
AURORA, IL 60507

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

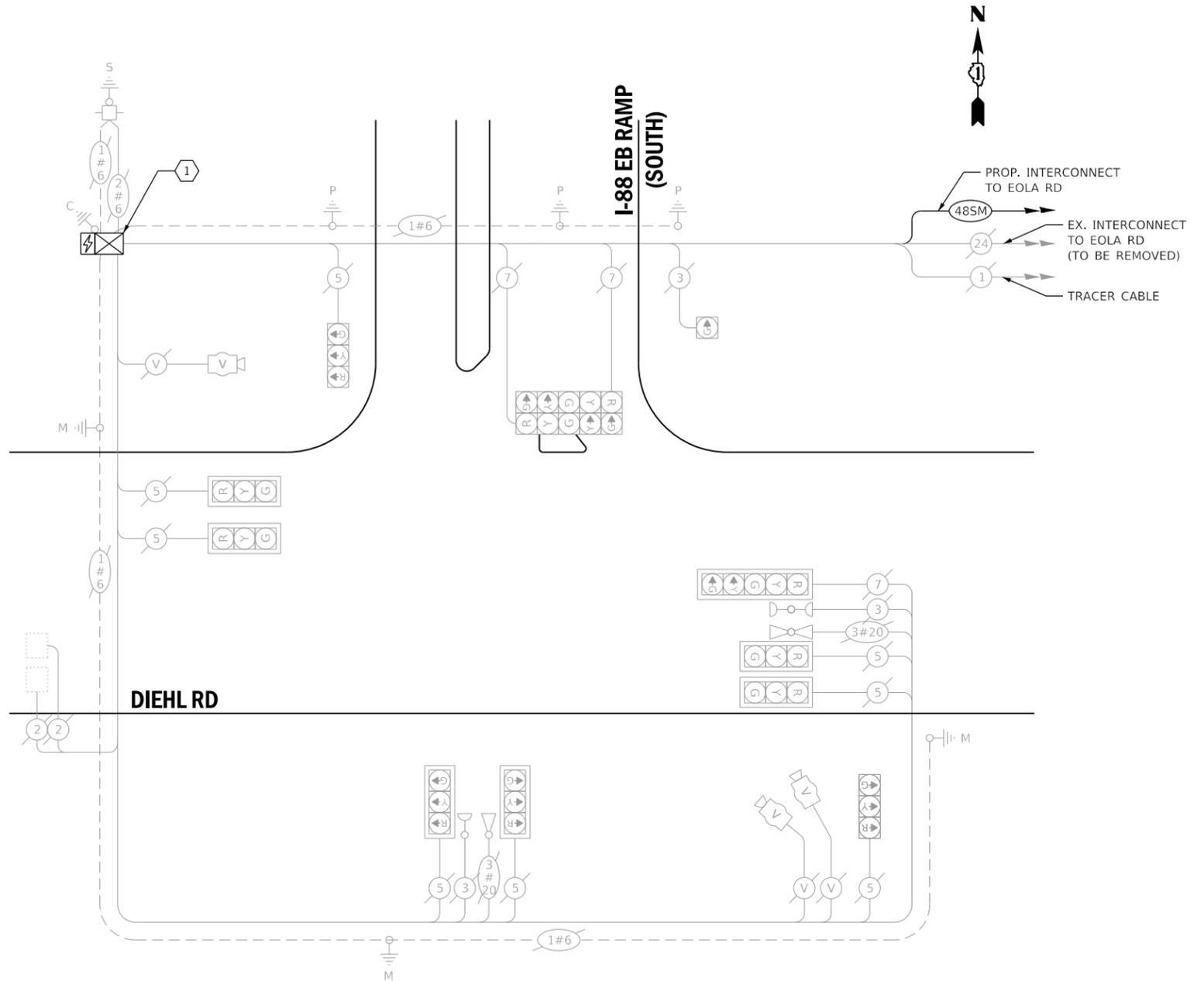
CONSTRUCTION NOTES:

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

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

CABLE PLAN
(NOT TO SCALE)



DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	22	DRAWN - RG	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

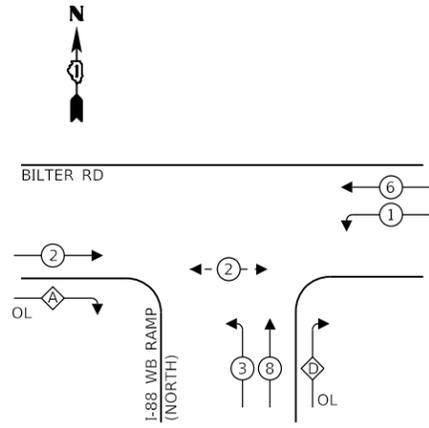
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
DIEHL RD AND I-88 EB RAMP (SOUTH)

SCALE: SHEET 111 OF 172 SHEETS STA. TO STA.

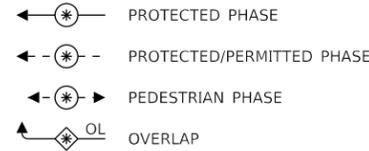
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	129
CONTRACT NO. 61H22				
ILLINOIS FED. AID PROJECT				

AURORA

EXISTING CONTROLLER SEQUENCE



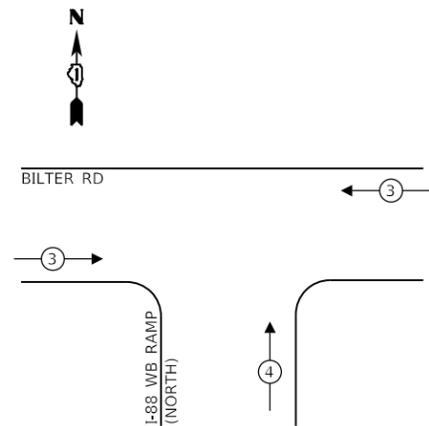
LEGEND:



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONSTRUCTION NOTES:

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	11	50	94
(YELLOW)	17	20	5	17
(GREEN)	17	12	45	92
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	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				566

ENERGY COSTS TO:

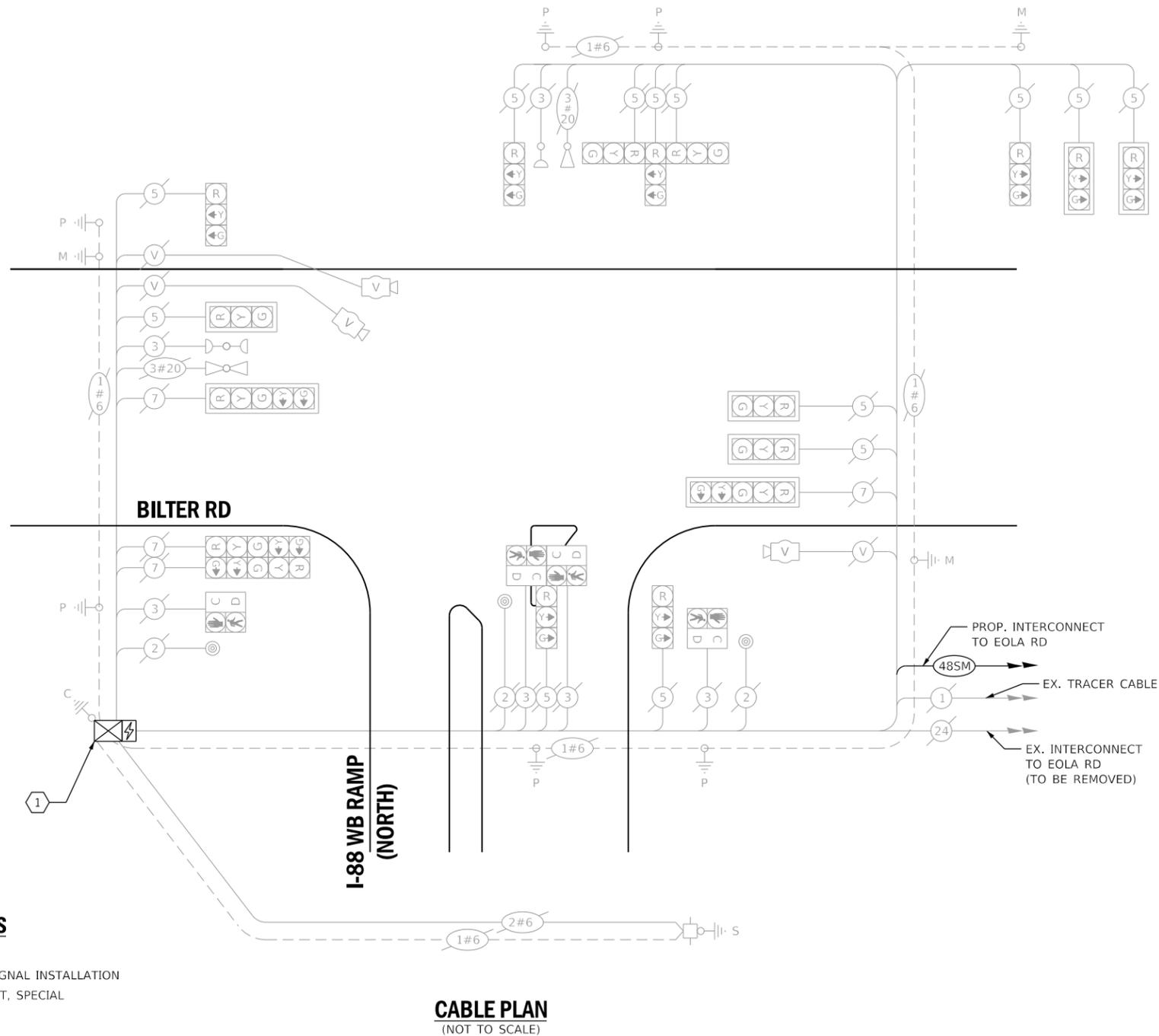
CITY OF AURORA

44 E DOWNER PLACE
 AURORA, IL 60507

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
 PHONE: (630)-424-5704
 COMPANY: COMED LOMBARD
 ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL LAYER II (DATALINK) SWITCH
1	EACH	LAYER II (DATALINK) SWITCH



CABLE PLAN
 (NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
24	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

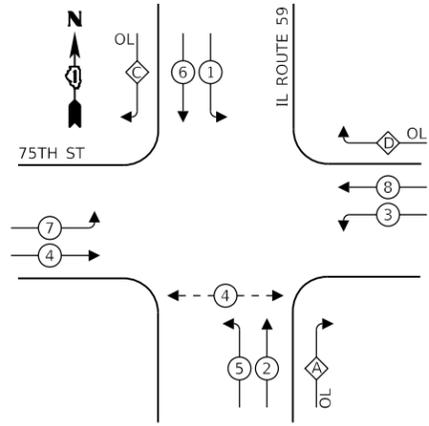
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
 BILTER RD AND I-88 WB RAMP (NORTH)**

SCALE: SHEET 112 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	130
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

AURORA

EXISTING CONTROLLER SEQUENCE



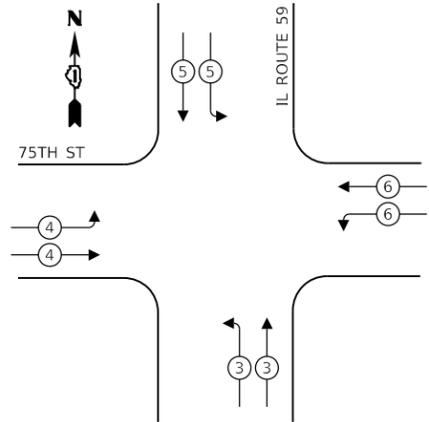
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	121
(YELLOW)	22	20	5	22
(GREEN)	22	12	45	119
PERMISSIVE ARROW	12	10	10	12
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	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				439

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

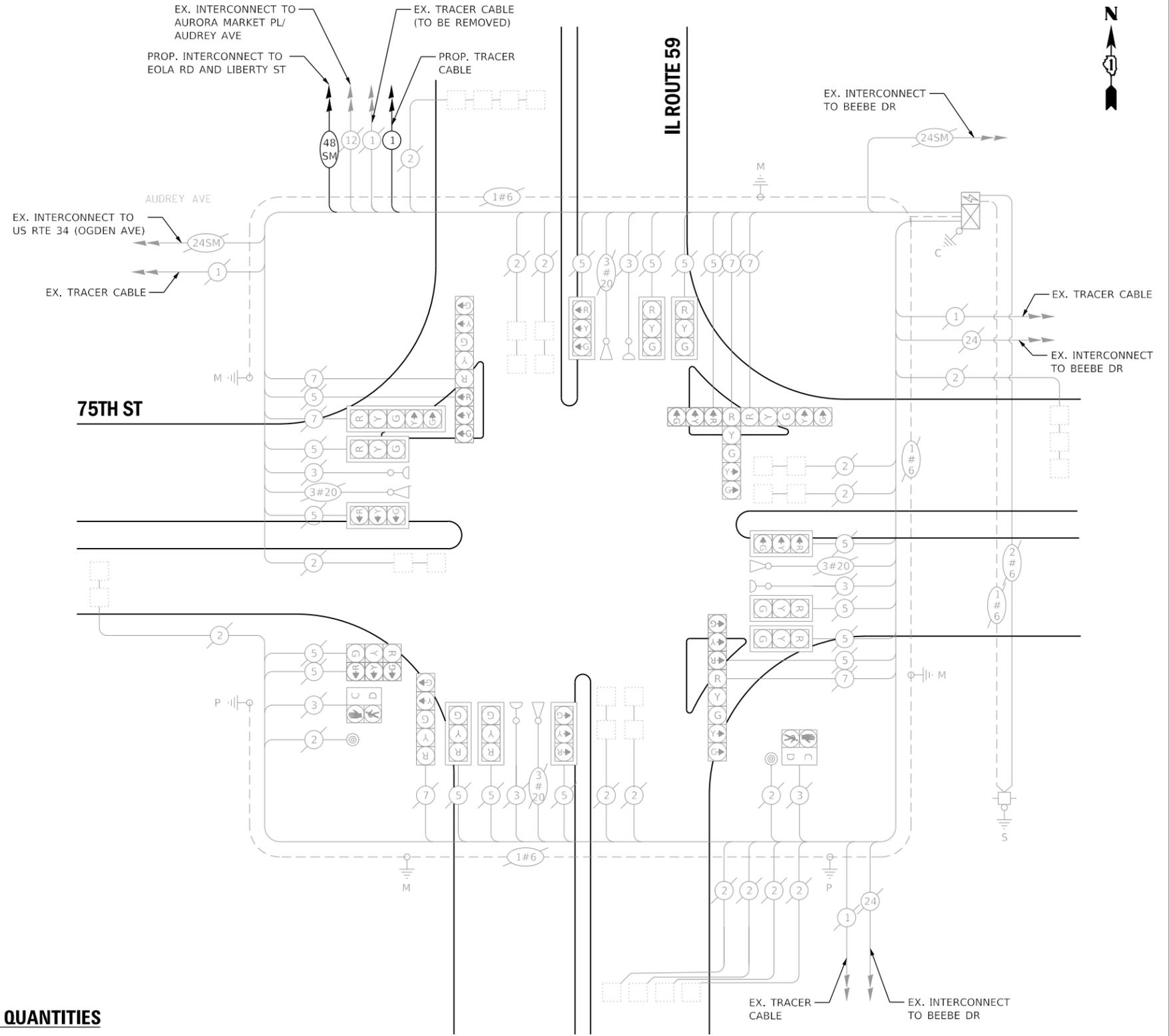
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

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

TOTAL QUANTITY	UNITS
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION



CABLE PLAN
(NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
1	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

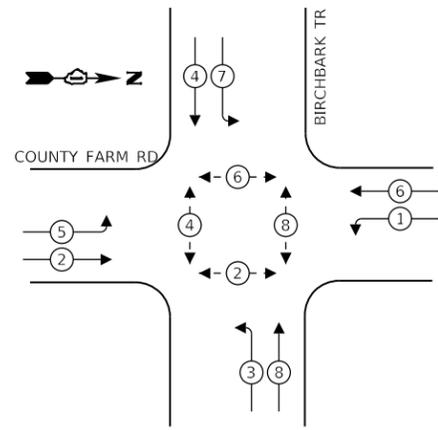
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
75TH ST AND IL ROUTE 59

SCALE: SHEET 113 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	131
CONTRACT NO. 61H22				
ILLINOIS FED. AID PROJECT				

IDOT
TS 6360
ECON 106

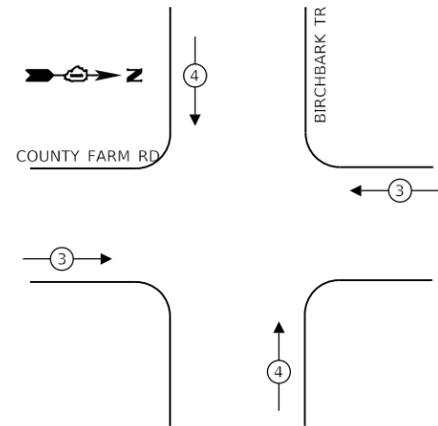
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊖ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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	-	75	100	-
TOTAL =				694

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
ACCOUNT NUMBER:

CONSTRUCTION NOTES:

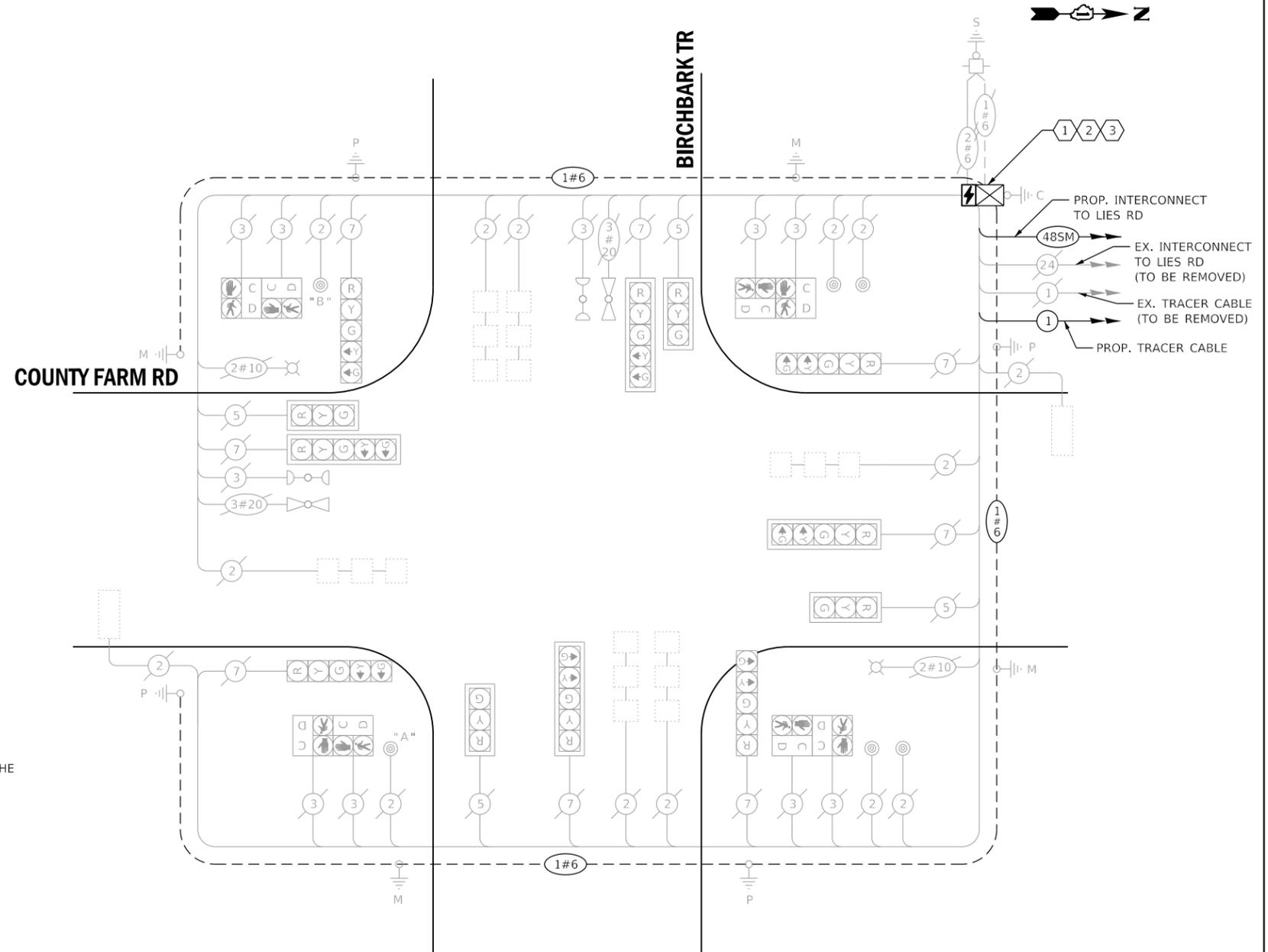
- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 3 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
(NOT TO SCALE)



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



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
73	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
COUNTY FARM RD AND BIRCHBARK TR

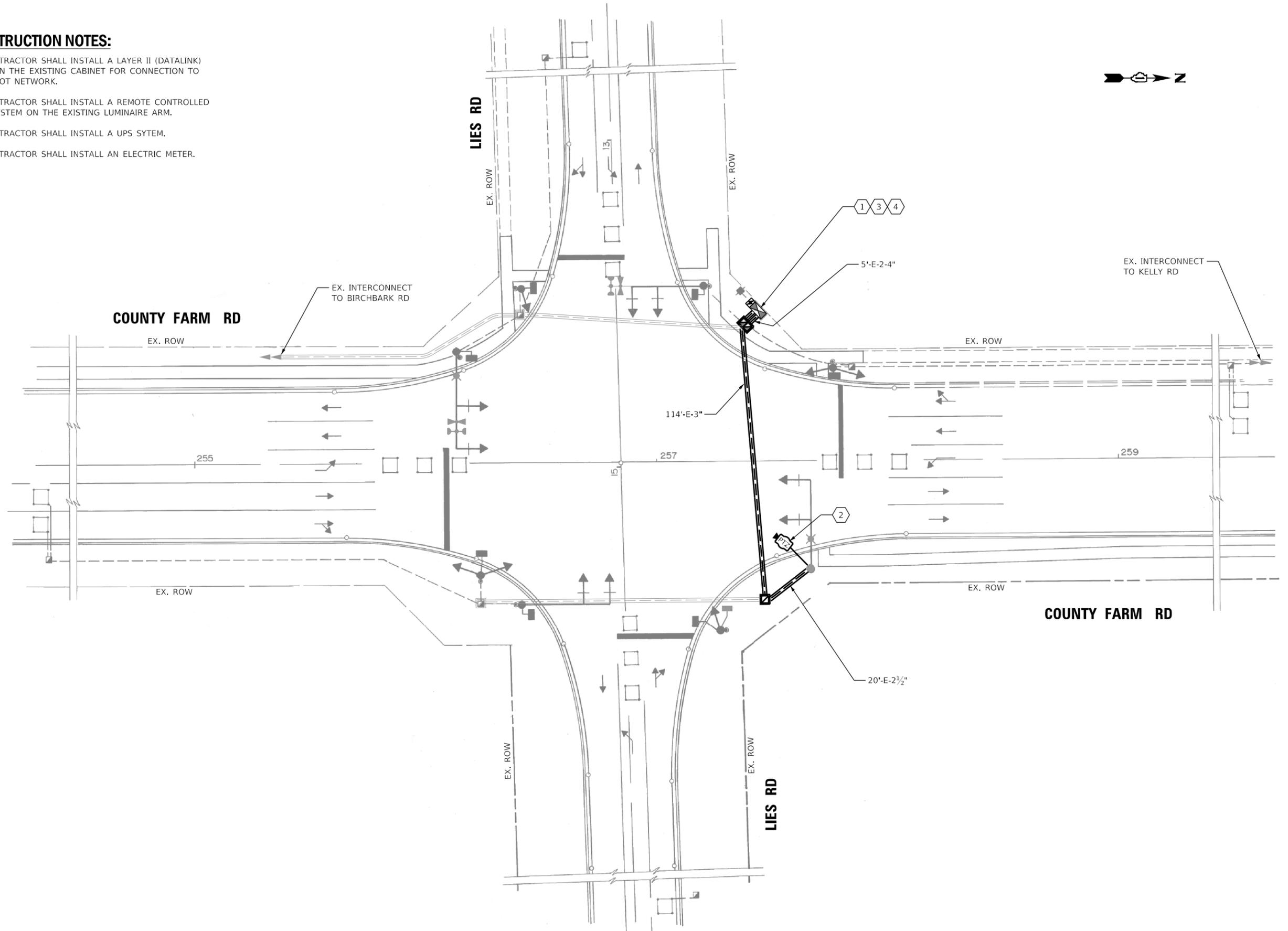
SCALE: NTS SHEET 114 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	132
			CONTRACT NO. 61H22	

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ③ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

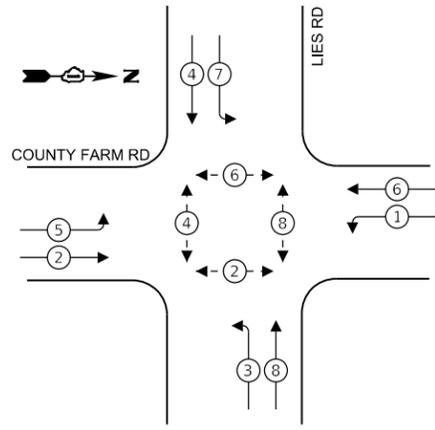


DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TRAFFIC SIGNAL MODERNIZATION PLAN COUNTY FARM RD AND LIES RD</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	76	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	133
	PLOT SCALE = 40,0000' / in.	CHECKED - ZH	REVISED -		SCALE:	SHEET 115	OF 172	SHEETS	STA.	TO STA.	CONTRACT NO. 61H22	
	PLOT DATE = 8/2/2021	DATE -	REVISED -								ILLINOIS FED. AID PROJECT	

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-countyfarm-ts-plan.dgn
Int76

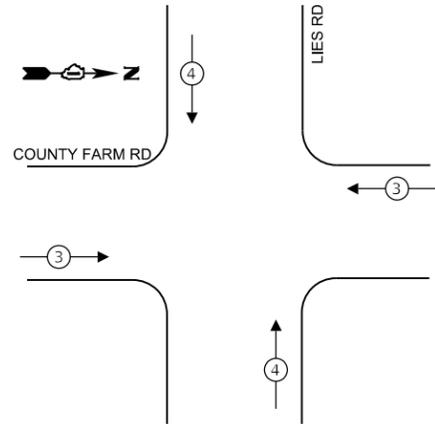
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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.

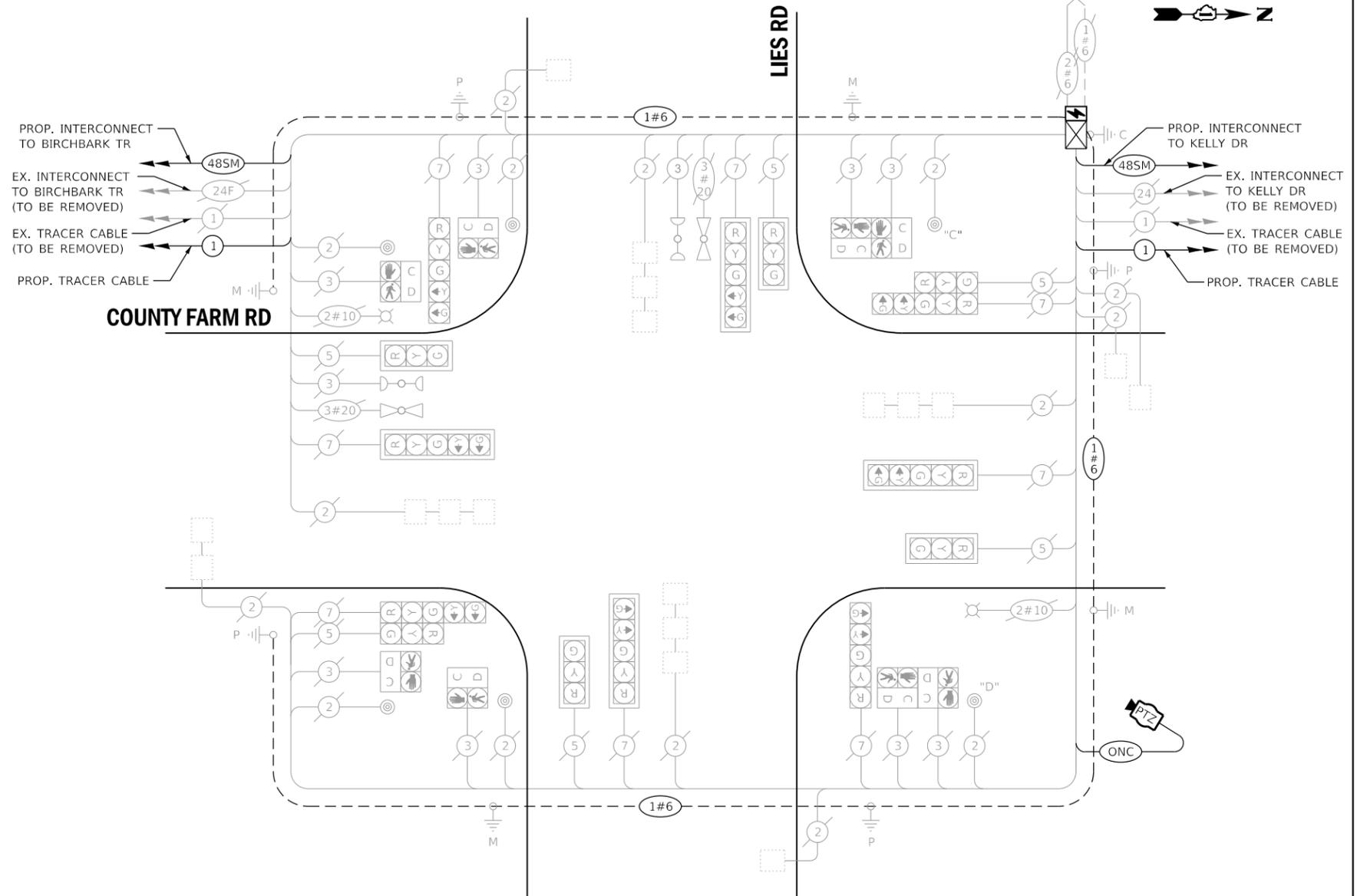
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
235	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
235	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



**CABLE PLAN
(NOT TO SCALE)**

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

USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
76	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

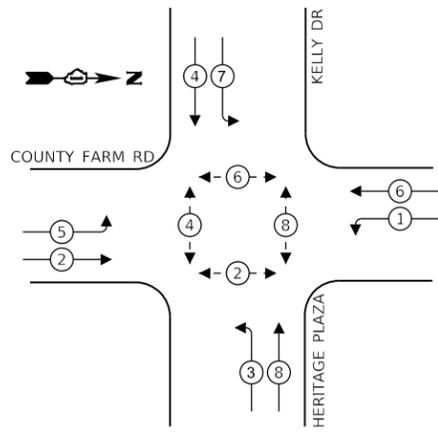
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
COUNTY FARM RD AND LIES RD**

SCALE: NTS SHEET 116 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	134
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

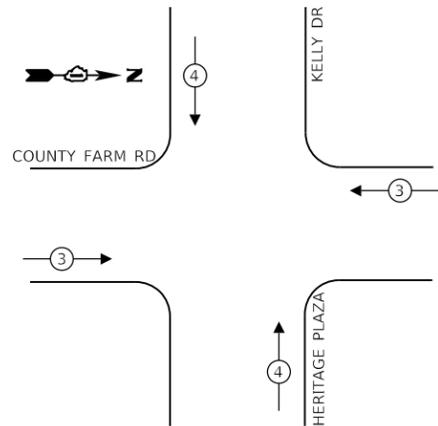
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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/2-2100) AND CABINET (COMPLETE)

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

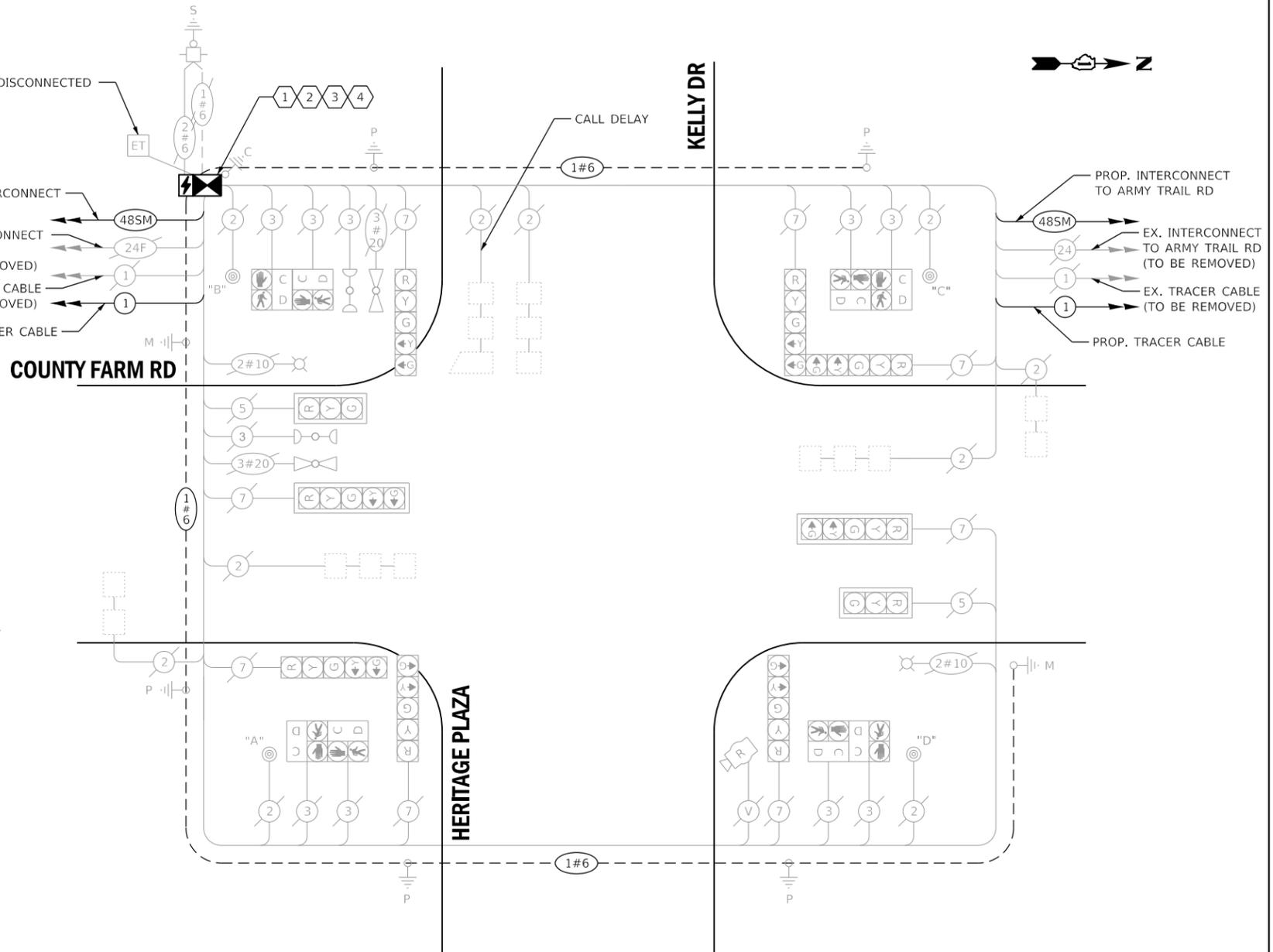
- 1 EACH MODEM
- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING MASTER AND LOCAL CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. INSTALL LIGHT DETECTOR AMPLIFIER.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
6	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	RELOCATE RADAR DETECTOR SYSTEM
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



CABLE PLAN
(NOT TO SCALE)

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 8 AND 2

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
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	-	75	100	-
TOTAL =				670

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
 ACCOUNT NUMBER:



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
75	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
 COUNTY FARM RD AND KELLY DR/HERITAGE PLAZA

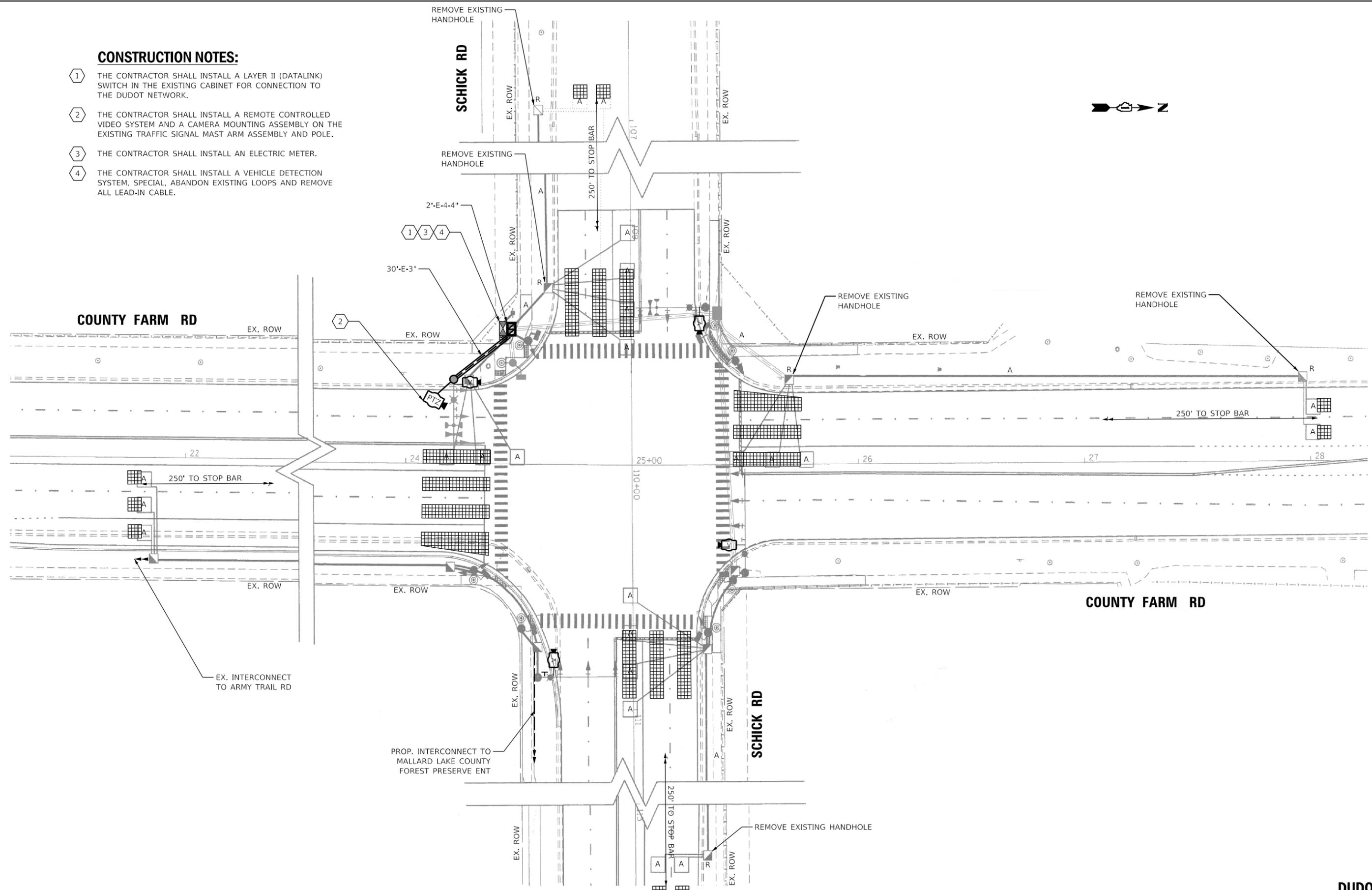
SCALE: NTS SHEET 117 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	135
				CONTRACT NO. 61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM AND A CAMERA MOUNTING ASSEMBLY ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 3 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 4 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
77	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

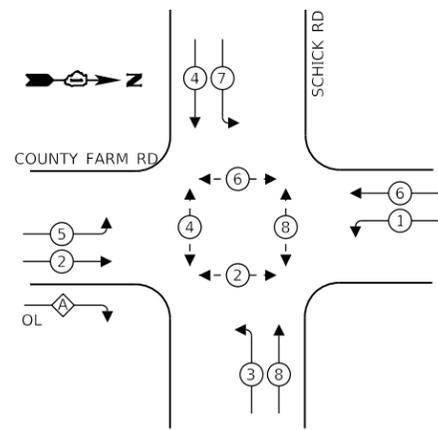
**TRAFFIC SIGNAL MODERNIZATION PLAN
COUNTY FARM RD AND SCHICK RD**

SCALE: 1"=20' SHEET 118 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	136
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\ts-countyfarm-ts-plan.dgn
Int77

EXISTING CONTROLLER SEQUENCE



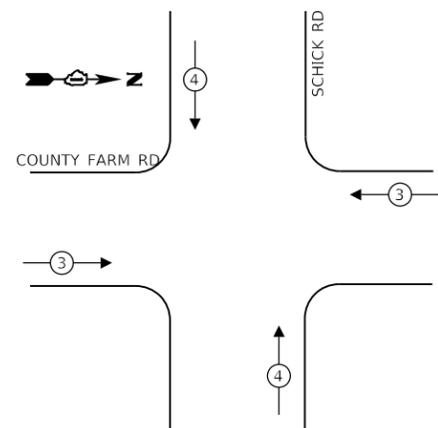
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 + 3	

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	11	50	94
(YELLOW)	17	20	5	17
(GREEN)	17	12	45	92
PERMISSIVE ARROW	20	10	10	20
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1473

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

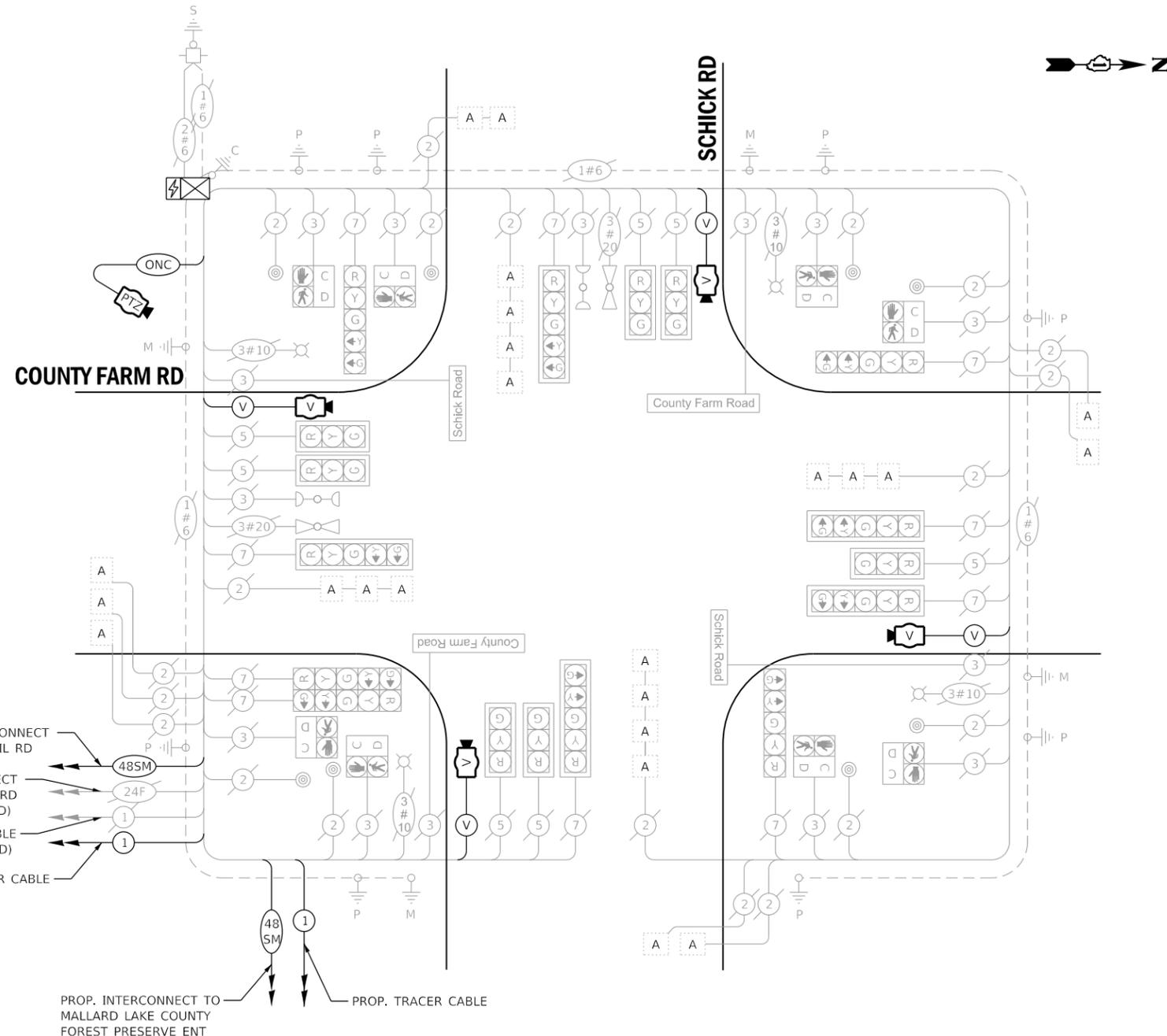
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3552	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
5	EACH	REMOVE EXISTING HANDHOLE
120	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3552	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
5	EACH	REMOVE EXISTING HANDHOLE
120	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



CABLE PLAN
(NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	77	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

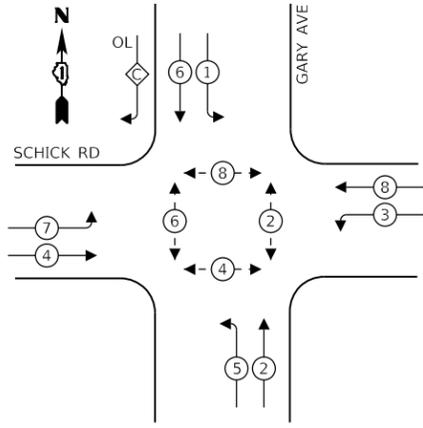
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
COUNTY FARM RD AND SCHICK RD

SCALE: NTS SHEET 119 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	137
				CONTRACT NO. 61H22

DUDOT

EXISTING CONTROLLER SEQUENCE



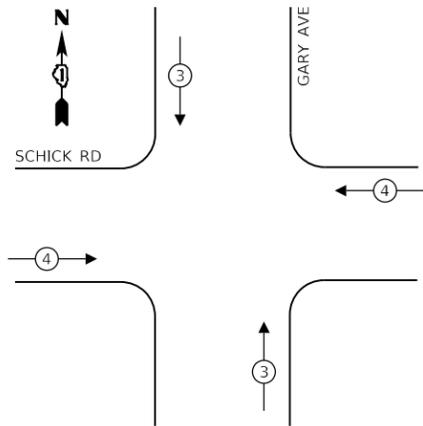
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 7

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL REMOVE AND REPLACE ANCHOR BOLTS.
- 2 THE CONTRACTOR SHALL INSTALL A NEW SERVICE INSTALLATION, GROUND MOUNTED, METERED ON EXISTING FOUNDATION.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (10'-E-X").
- 4 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.

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 SERVICE INSTALLATION

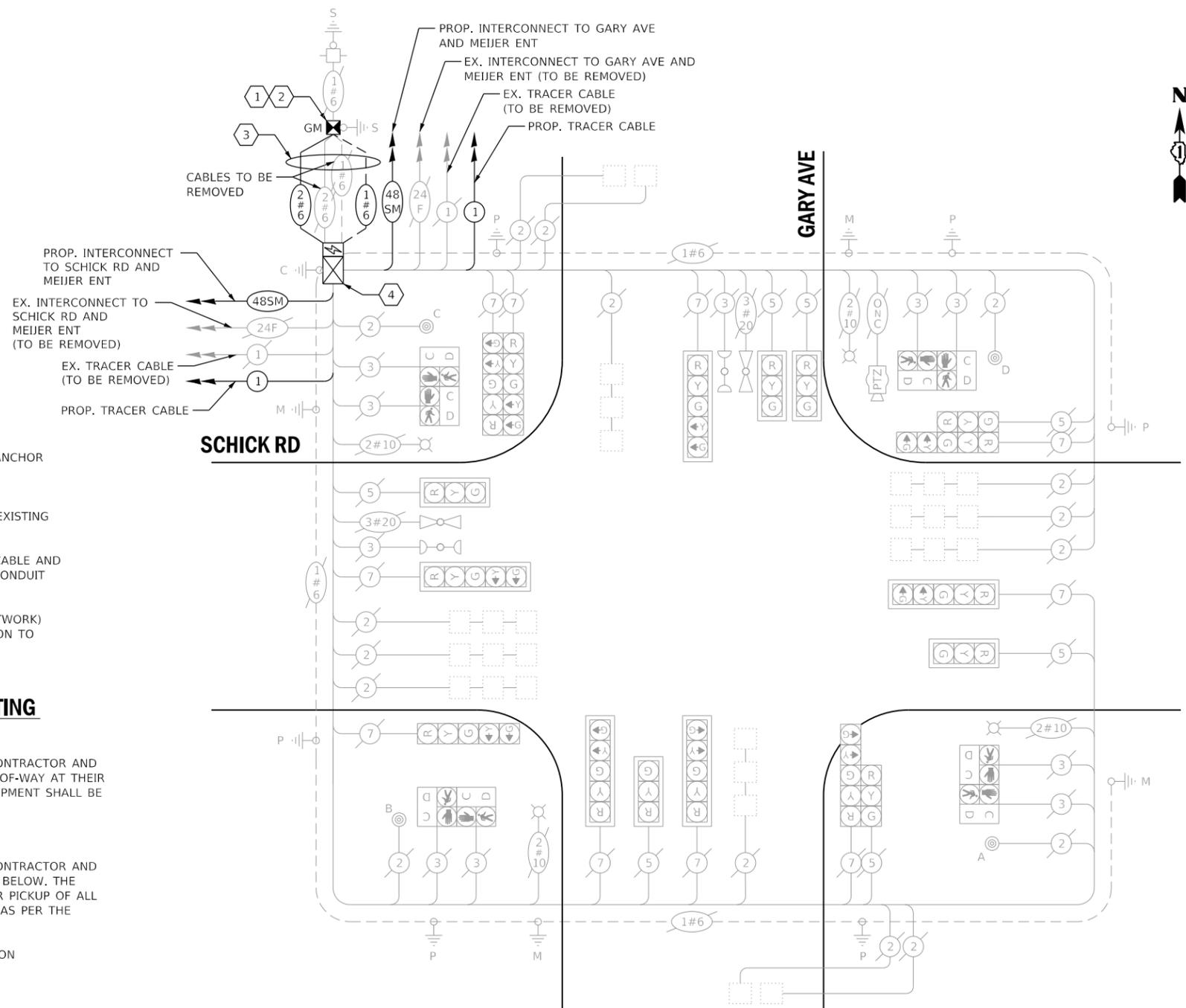
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
30	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
30	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
20	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
10	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION, GROUND MOUNTED, METERED
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	REMOVE AND REPLACE ANCHOR BOLTS



CABLE PLAN
(NOT TO SCALE)

NOTE:
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 ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	11	50	93.5
(YELLOW)	17	20	5	17
(GREEN)	17	12	45	91.8
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	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1082.3

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
ACCOUNT NUMBER:



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
202	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

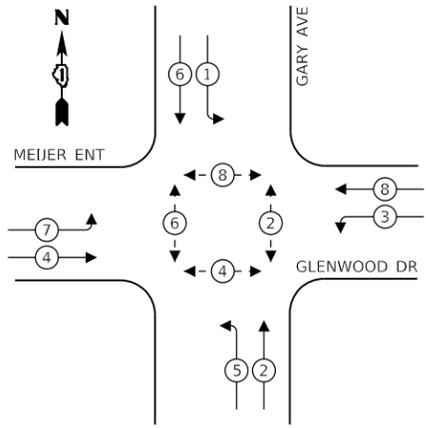
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
GARY AVE AND SCHICK RD**

SCALE: SHEET 120 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	138
		CONTRACT NO. 61H22		
		ILLINOIS FED. AID PROJECT		

DUDOT

EXISTING CONTROLLER SEQUENCE



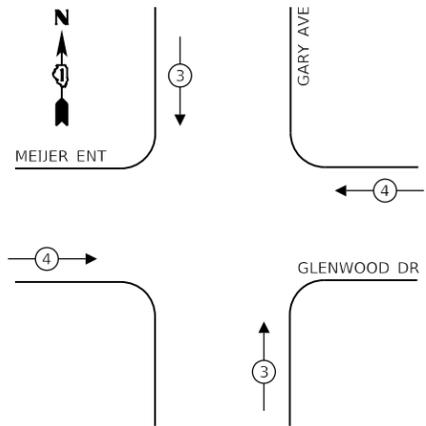
LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ — OVERLAP

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE EXISTING CABINET.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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-1000)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	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	-	75	100	-
TOTAL =				694

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
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

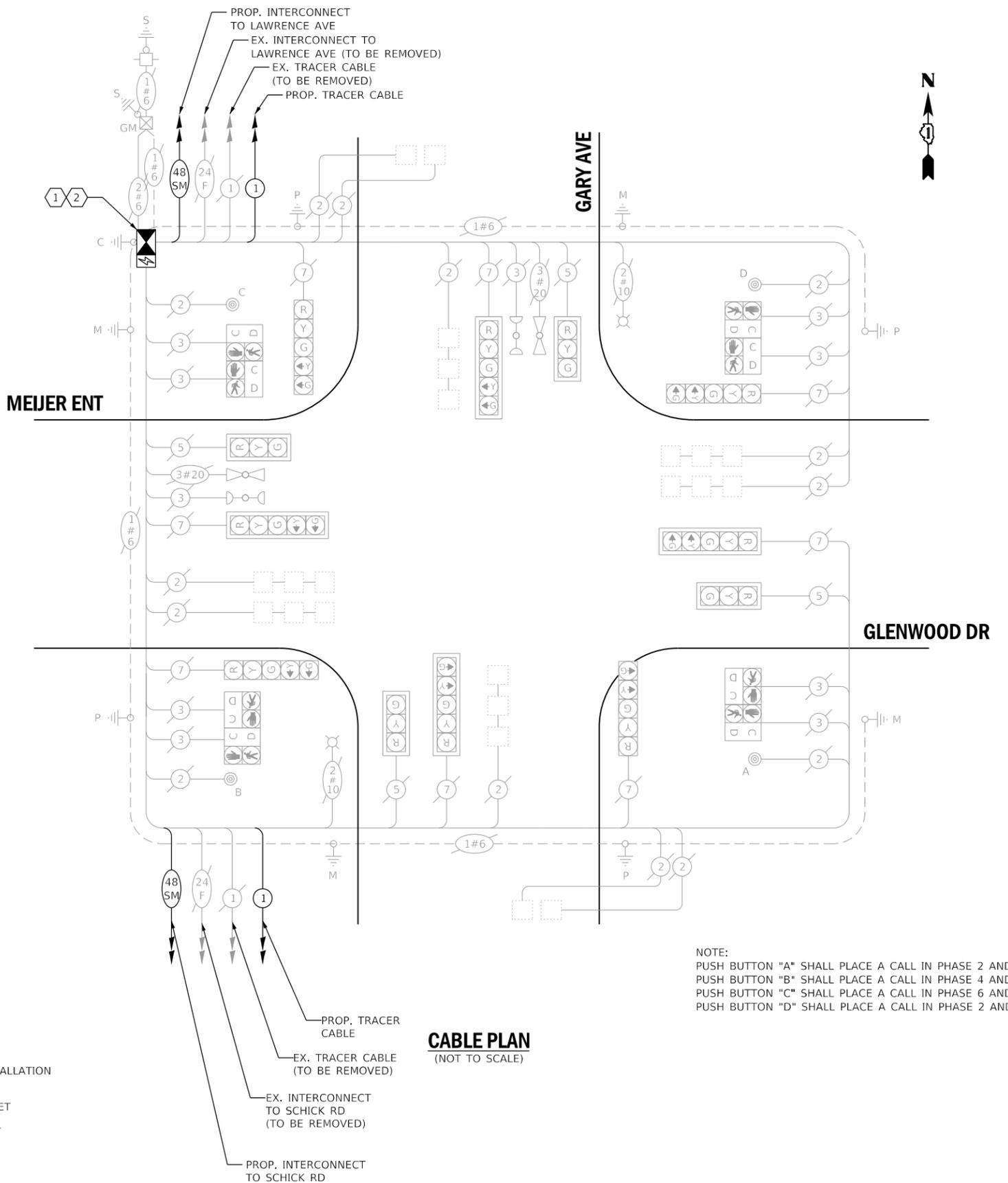
TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
GARY AVE AND MEIJER ENT/GLENWOOD DR**

SCALE: SHEET 121 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	139
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				



CABLE PLAN
(NOT TO SCALE)

NOTE:
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

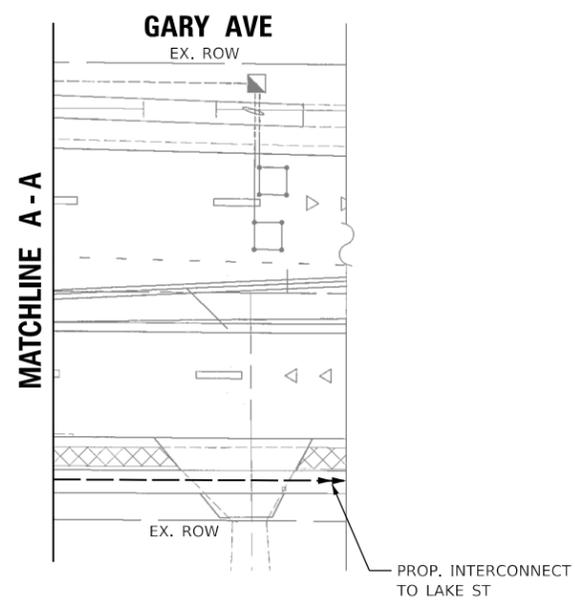
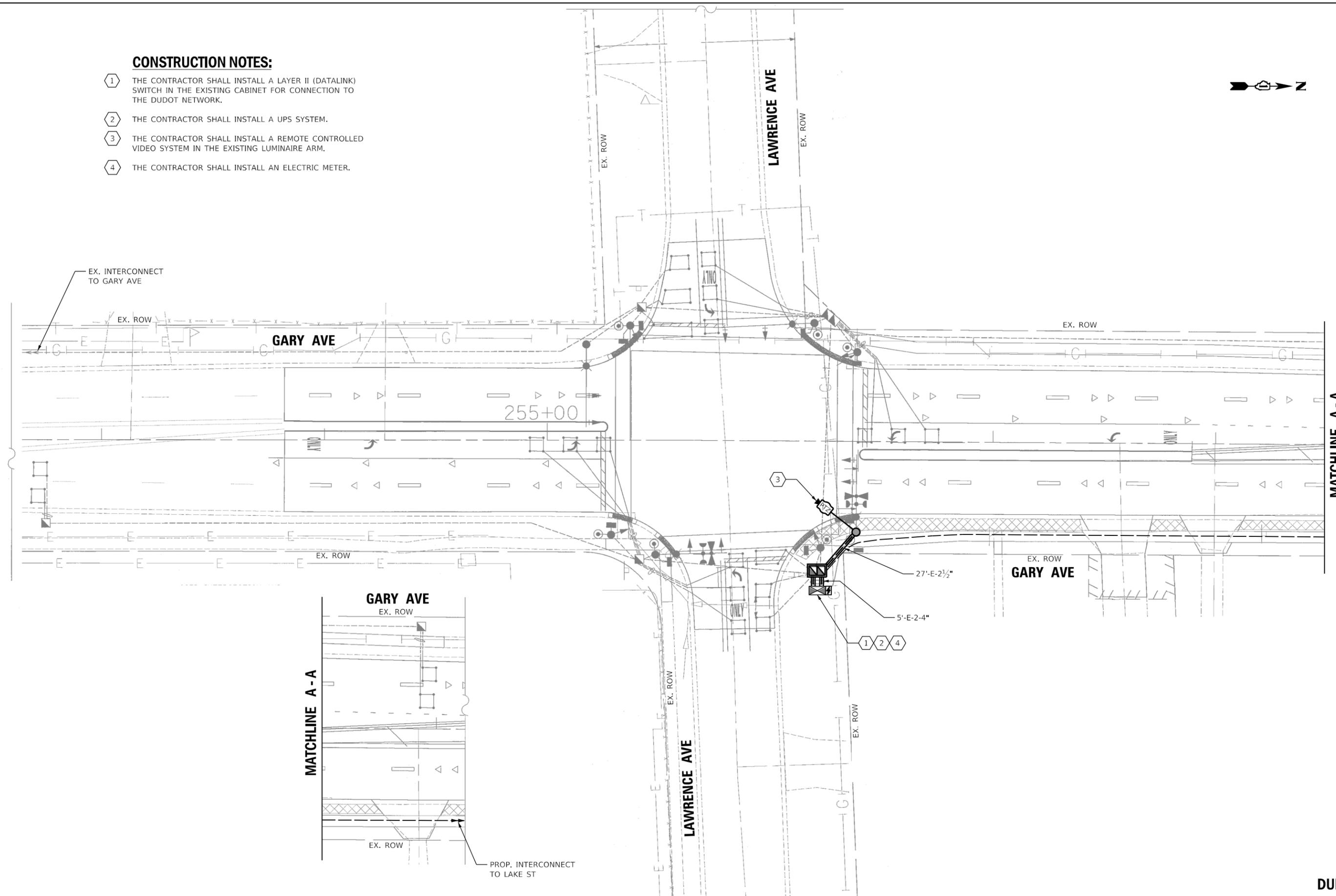
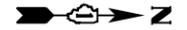


USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
203	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM IN THE EXISTING LUMINAIRE ARM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.



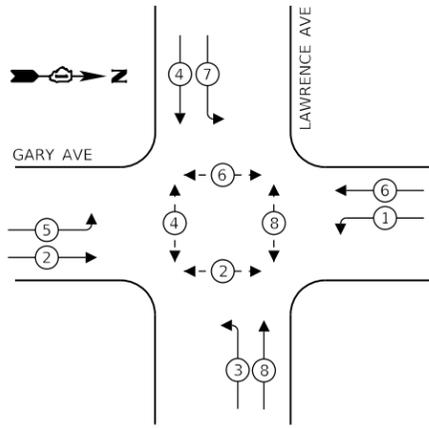
MATCHLINE A - A

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TRAFFIC SIGNAL MODERNIZATION PLAN GARY AVE AND LAWRENCE AVE</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	84	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	140
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -									
	PLOT DATE = 8/2/2021	DATE -	REVISED -		SCALE: 1"=20'	SHEET 122	OF 172	SHEETS	STA.	TO STA.		CONTRACT NO. 61H22
												ILLINOIS FED. AID PROJECT

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\ICADD_Sheets\st-gary-ls-plan.dgn
Int84

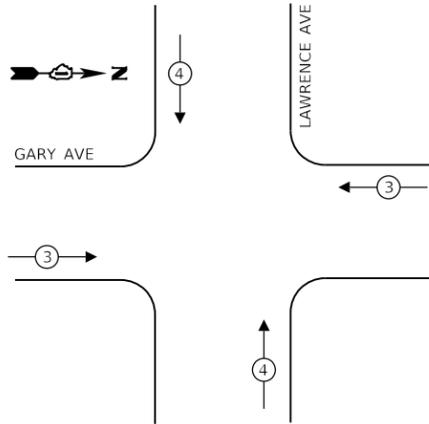
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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.

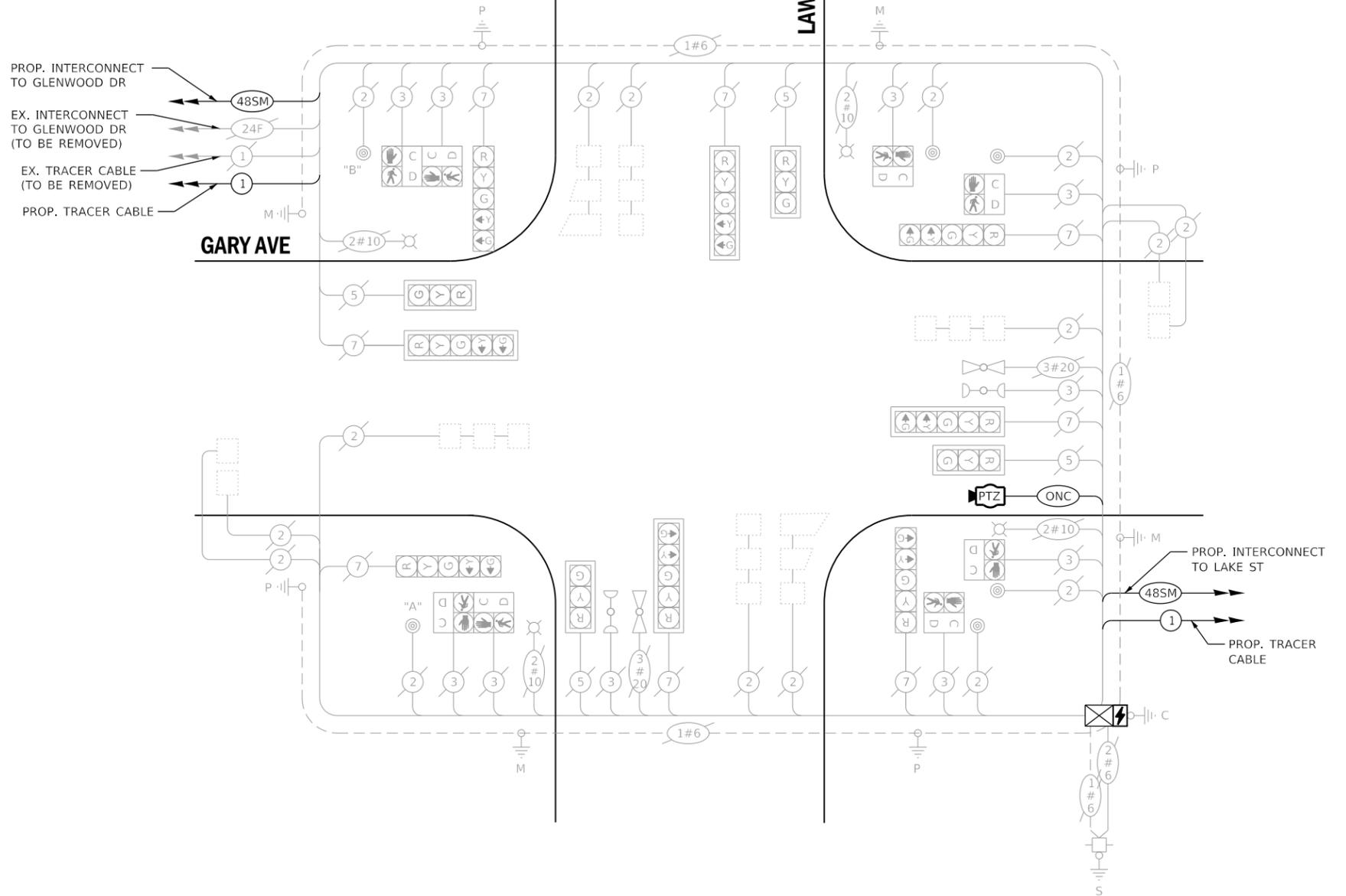
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
120	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
120	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



**CABLE PLAN
(NOT TO SCALE)**

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	84	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

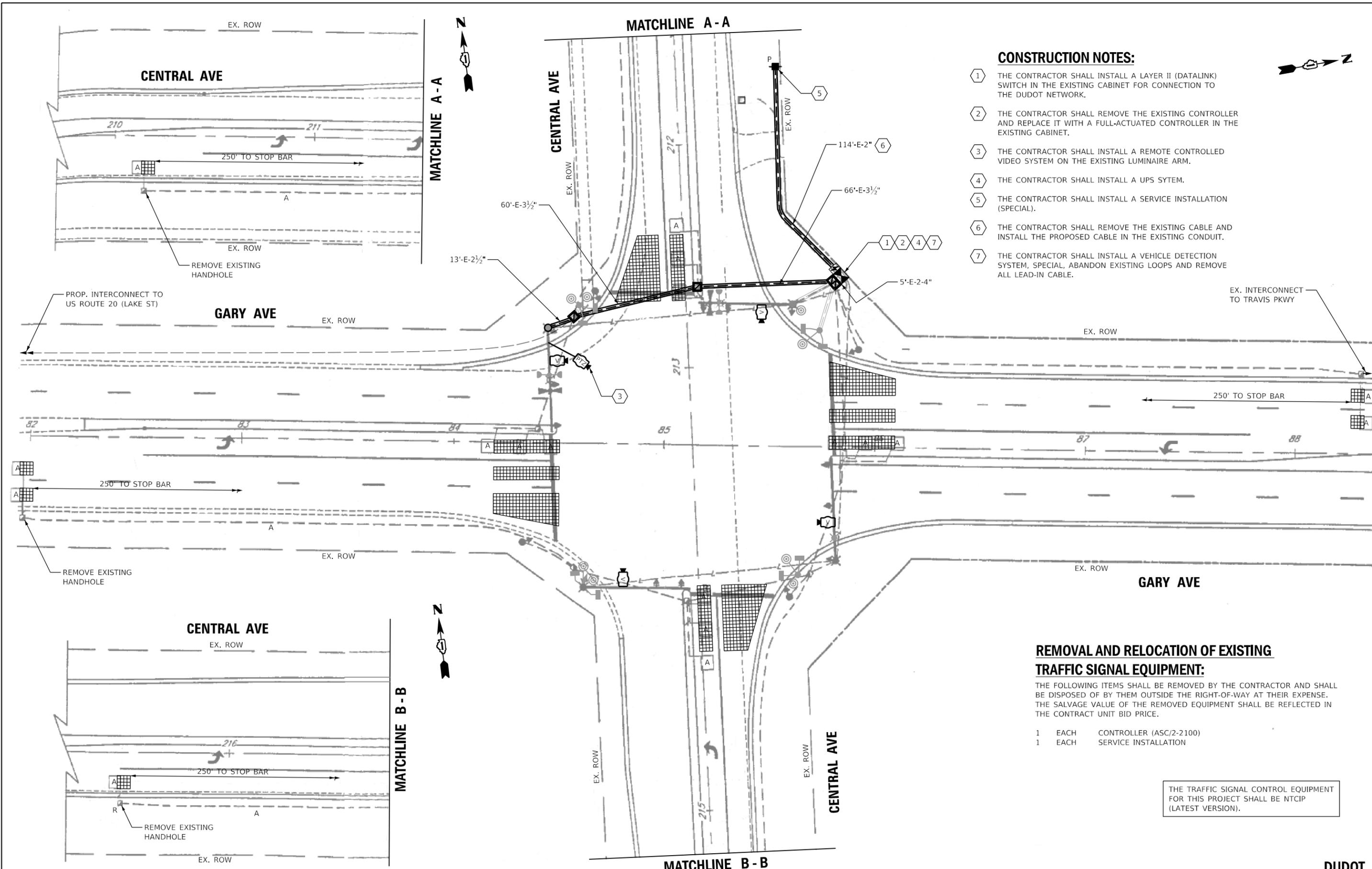
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
GARY AVE AND LAWRENCE AVE**

SCALE: SHEET 123 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	141
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

DUDOT



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 7 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.

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/2-2100)
- 1 EACH SERVICE INSTALLATION

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



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
78	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GARY AVE AND CENTRAL AVE

SCALE: 1"=20' SHEET 124 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	142
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

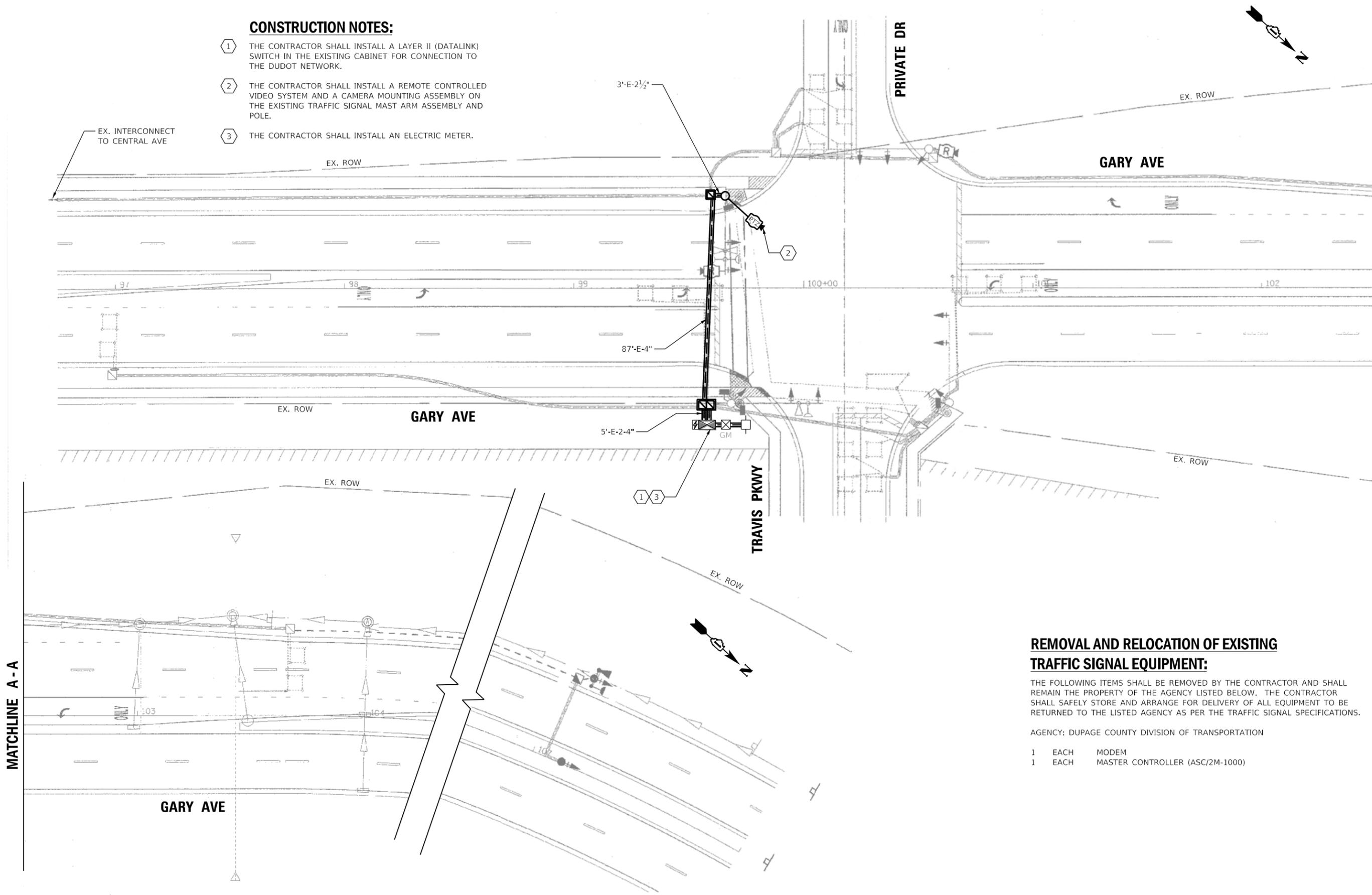
DUDOT

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-gary-ts-plan.dgn Int78

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM AND A CAMERA MOUNTING ASSEMBLY ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

EX. INTERCONNECT TO CENTRAL AVE



REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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

- 1 EACH MODEM
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
82	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

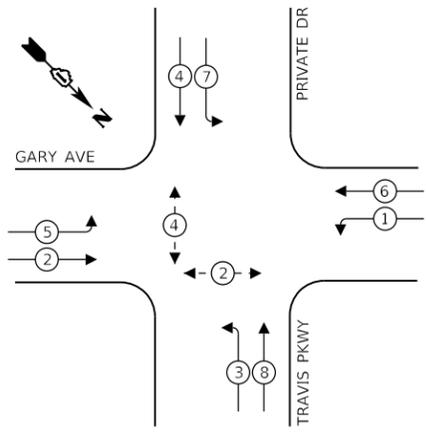
TRAFFIC SIGNAL MODERNIZATION PLAN
GARY AVE AND TRAVIS PKWY

SCALE: 1"=20' SHEET 126 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	144
			CONTRACT NO.	61H22
ILLINOIS FED. AID PROJECT				

DUDOT

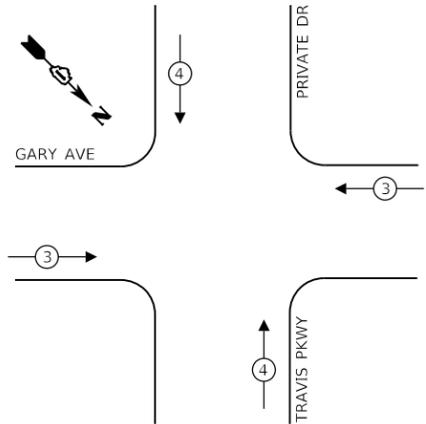
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊖ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	16	10	10	16
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	2	20	50	20
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				609

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

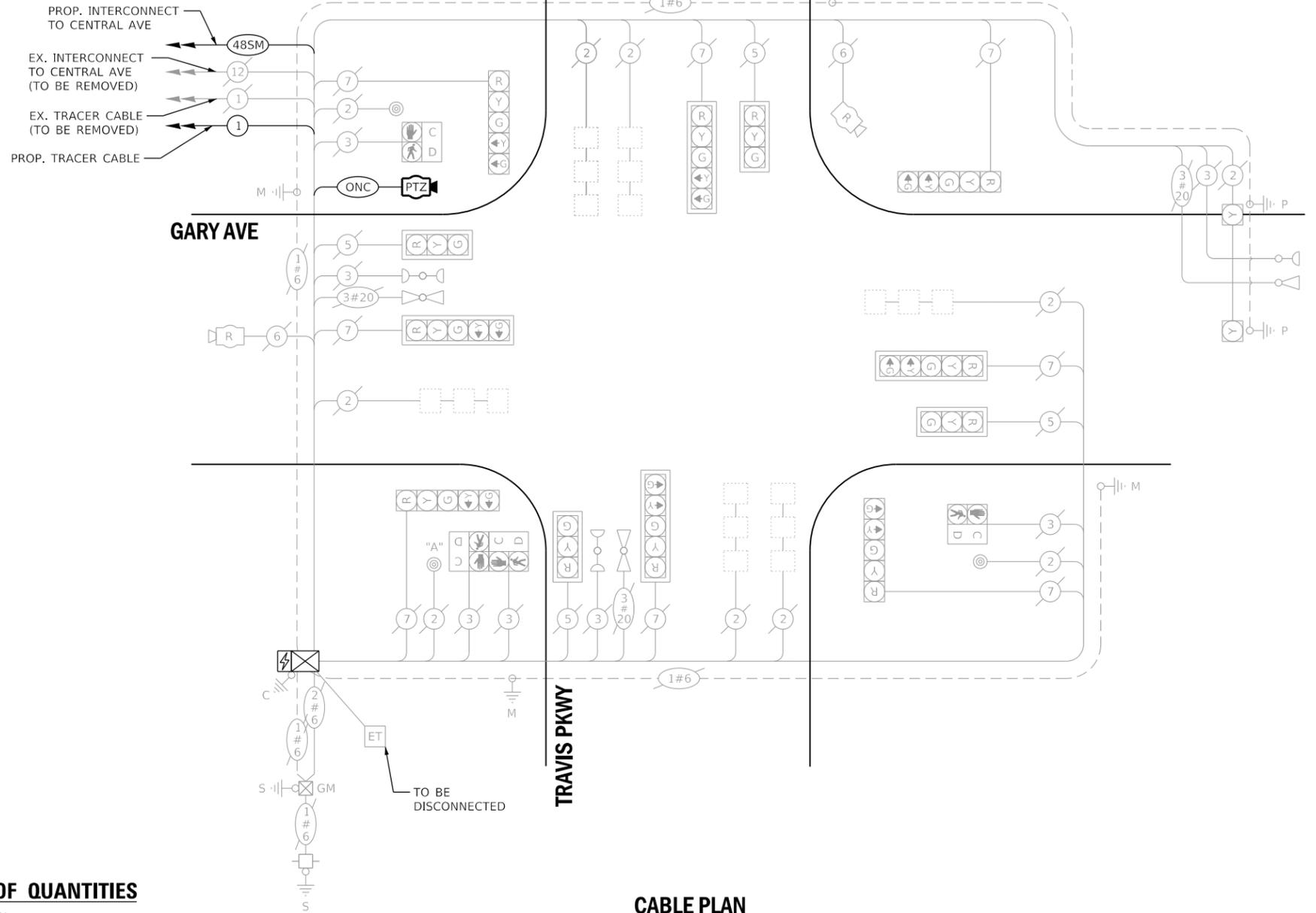
ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY

TOTAL QUANTITY	UNITS
1	EACH
165	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
OUTDOOR RATED NETWORK CABLE
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
ELECTRIC METER
CAMERA MOUNTING ASSEMBLY



CABLE PLAN
(NOT TO SCALE)

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

USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
82	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
GARY AVE AND TRAVIS PKWY

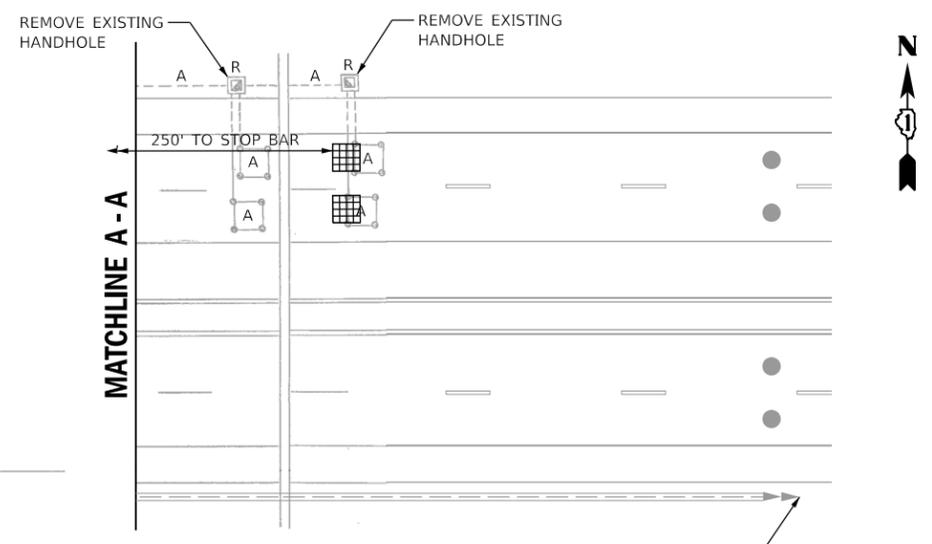
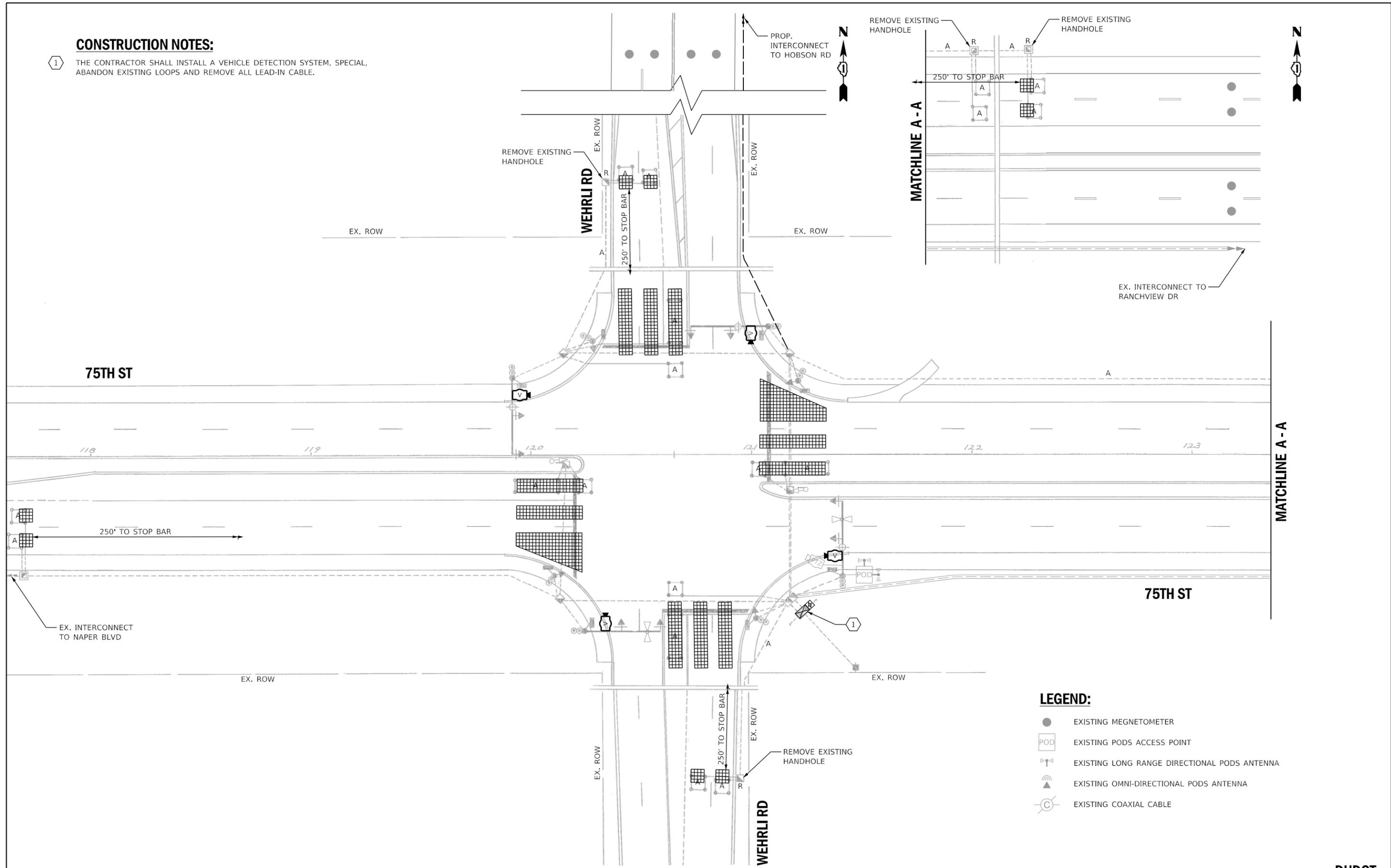
SCALE: SHEET 127 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	145
CONTRACT NO. 61H22				

DUDOT

CONSTRUCTION NOTES:

1 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



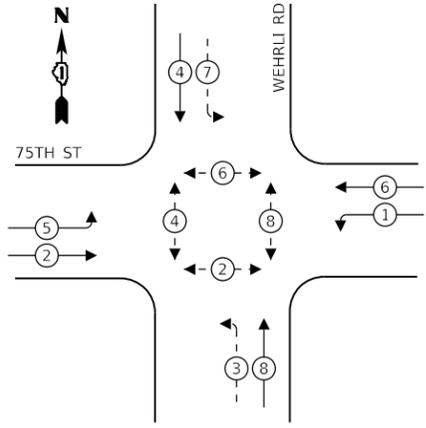
LEGEND:

- EXISTING MEGNETOMETER
- POD EXISTING PODS ACCESS POINT
- ⎓ EXISTING LONG RANGE DIRECTIONAL PODS ANTENNA
- ⎓ EXISTING OMNI-DIRECTIONAL PODS ANTENNA
- Ⓢ EXISTING COAXIAL CABLE

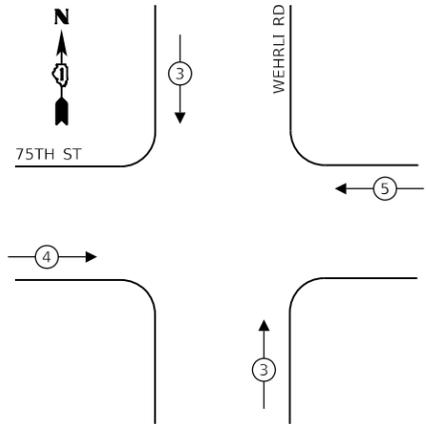
DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN WEHRLI RD AND 75TH ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	49	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 128	OF 172 SHEETS	STA.	TO STA.	19-DCCSS-03-TL	DUPAGE	307
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -									
	PLOT DATE = 8/2/2021	DATE -	REVISED -									
FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\stt-collegets-plan.dgn Int49				CONTRACT NO. 61H22 ILLINOIS FED. AID PROJECT								

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

LEGEND:

- EXISTING MEGNETOMETER
- POD EXISTING PODS ACCESS POINT
- ⊙ EXISTING LONG RANGE DIRECTIONAL PODS ANTENNA
- ⊙ EXISTING OMNI-DIRECTIONAL PODS ANTENNA
- ⊙ EXISTING COAXIAL CABLE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL 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	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	50	375
PTZ CAMERA	1	75	100	75
TOTAL =				1060

ENERGY COSTS TO:

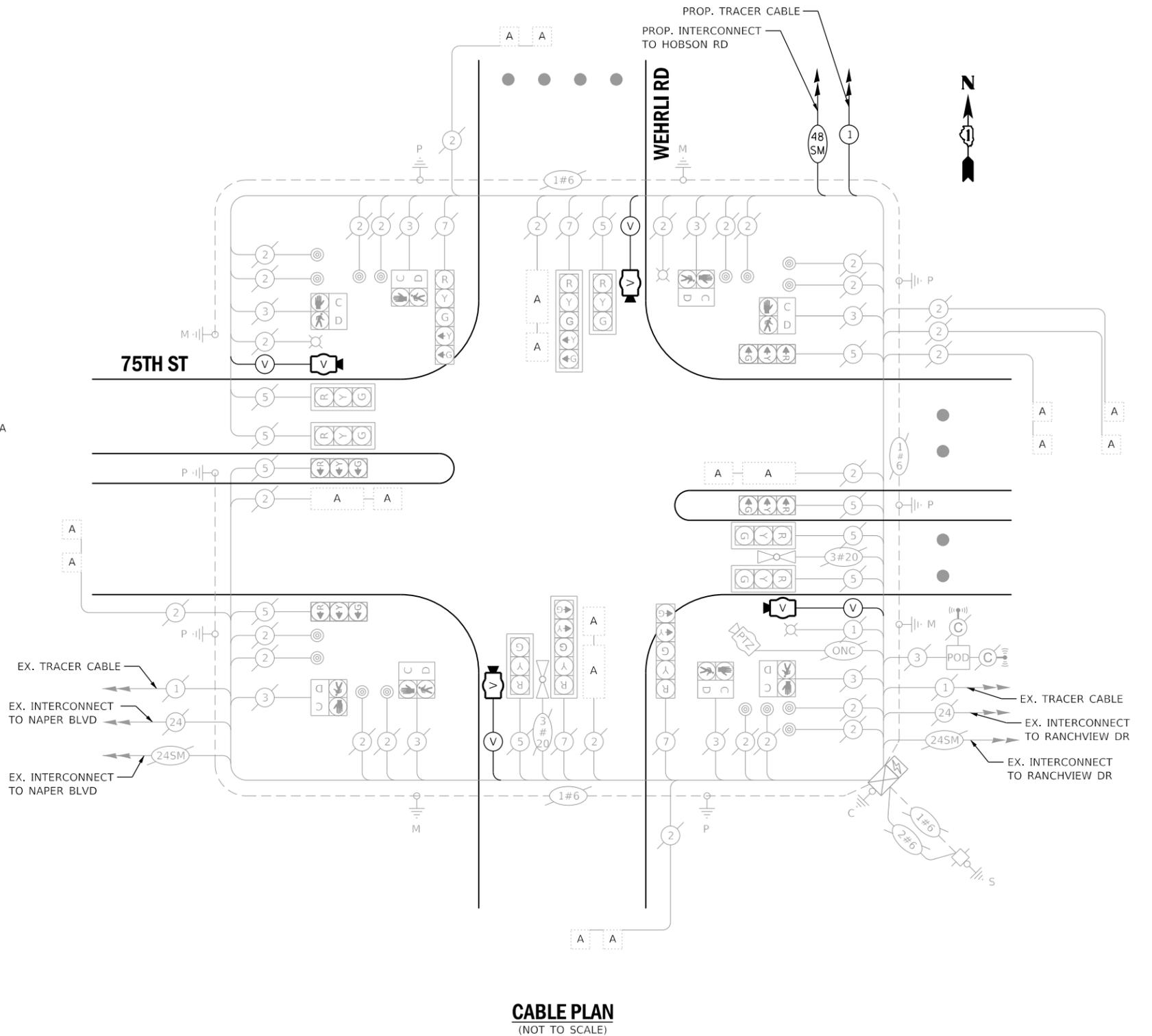
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER: _____

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6294	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
4	EACH	REMOVE EXISTING HANDHOLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
49	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
WEHRLI RD AND 75TH ST

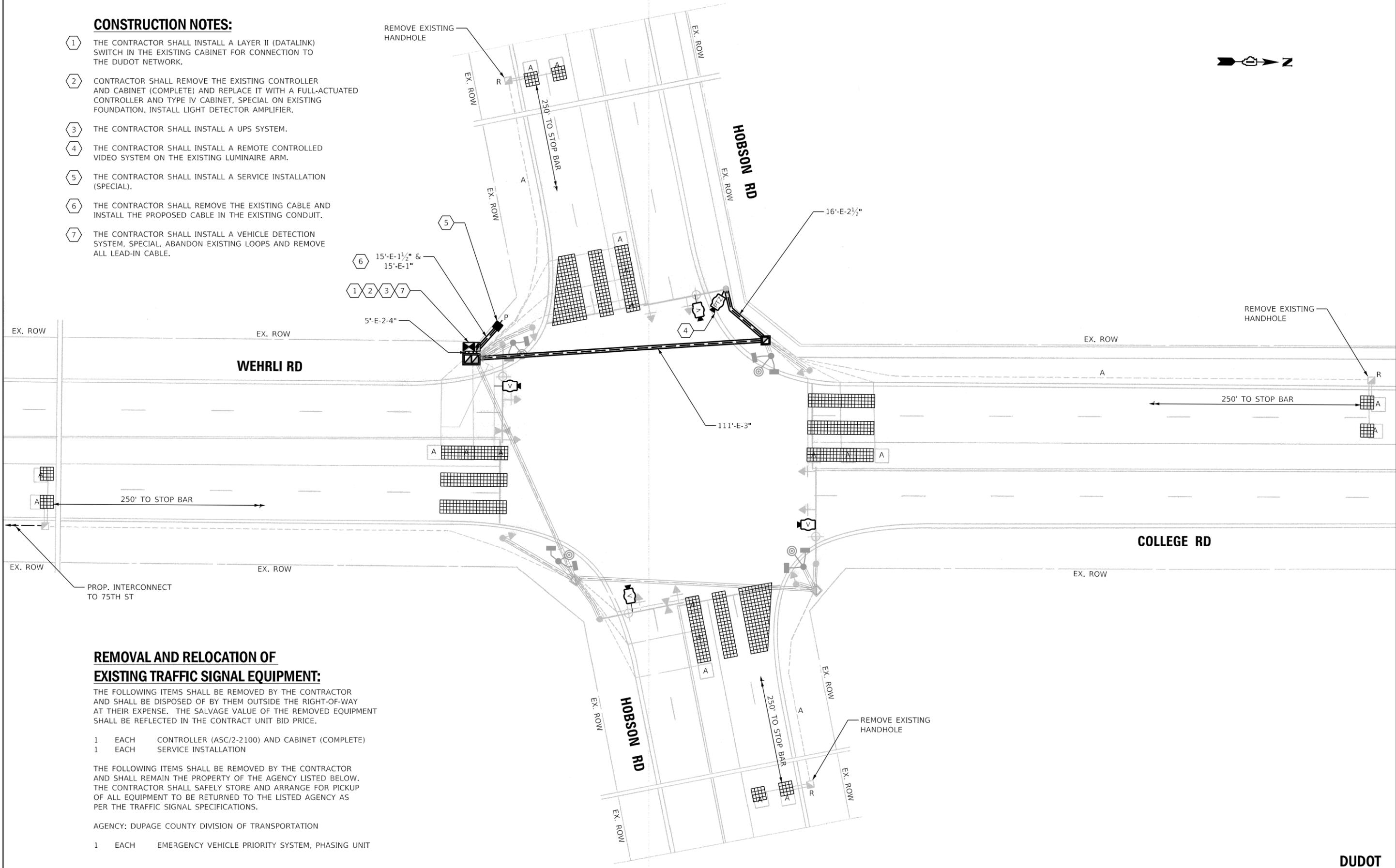
SCALE: SHEET 129 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	147
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 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. INSTALL LIGHT DETECTOR AMPLIFIER.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 7 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



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/2-2100) AND CABINET (COMPLETE)
- 1 EACH 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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
72	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

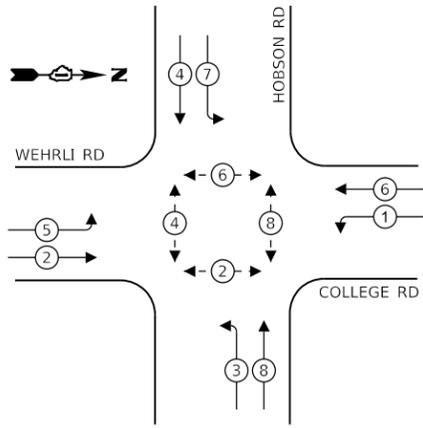
TRAFFIC SIGNAL MODERNIZATION PLAN
COLLEGE RD/WEHRLI RD AND HOBSON RD

SCALE: 1"=20' SHEET 130 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	148
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

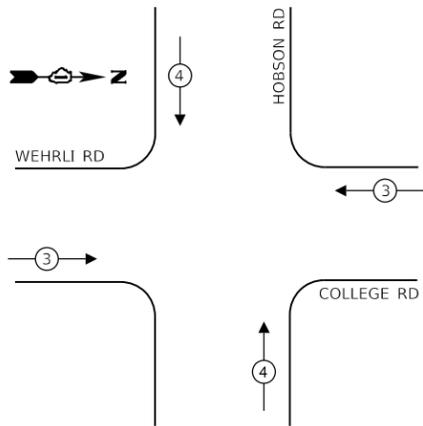
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊛ — PROTECTED PHASE
- ⊛ — — PROTECTED/PERMITTED PHASE
- ⊛ — ⊠ — PEDESTRIAN PHASE
- ⊛ — OL — OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1169

ENERGY COSTS TO:

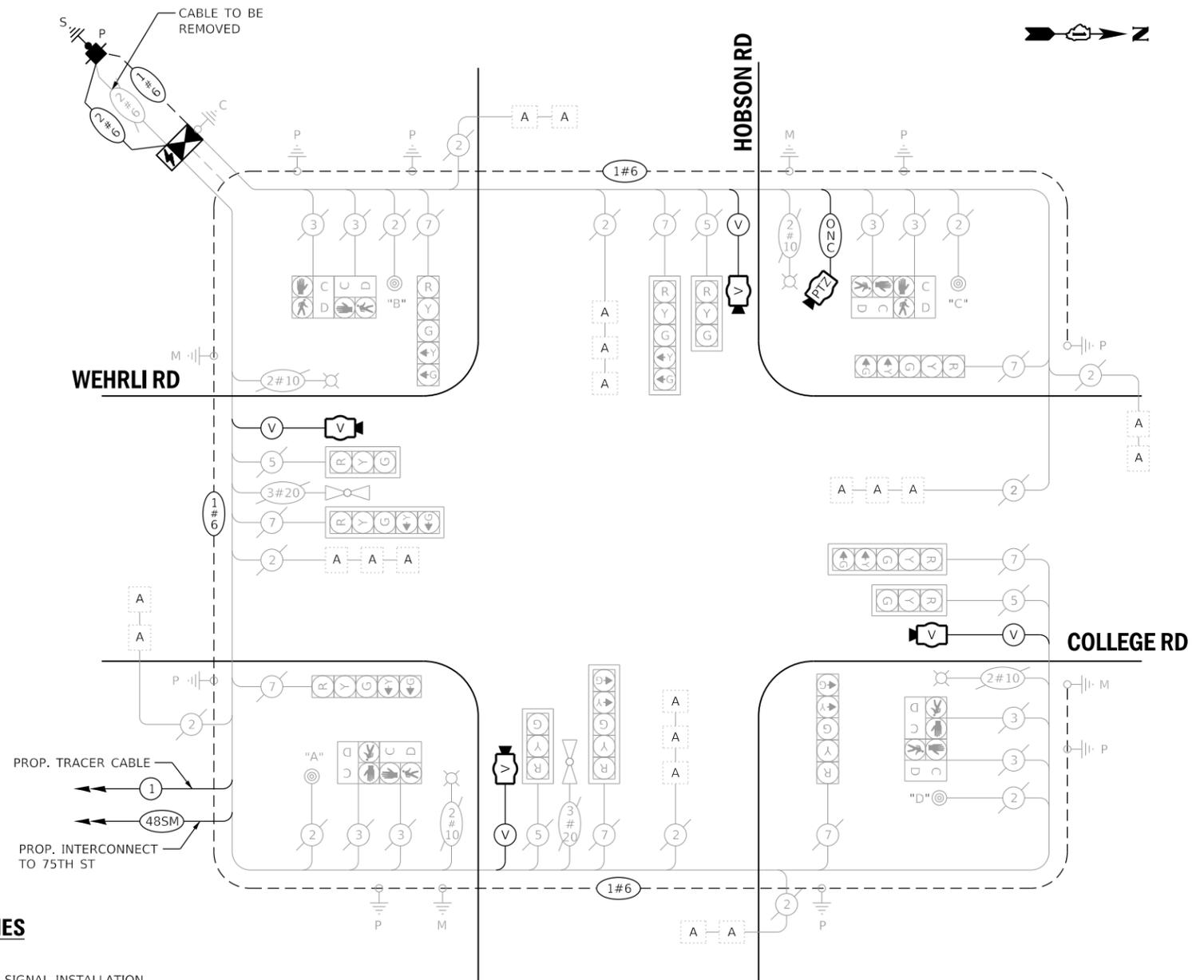
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
35	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	LIGHT DETECTOR AMPLIFIER
2283	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
15	FOOT	ROD AND CLEAN EXISTING CONDUIT
225	FOOT	OUTDOOR RATED NETWORK CABLE
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 AND CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)

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.

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

USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
72	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
WEHRLI RD / COLLEGE RD AND HOBSON RD

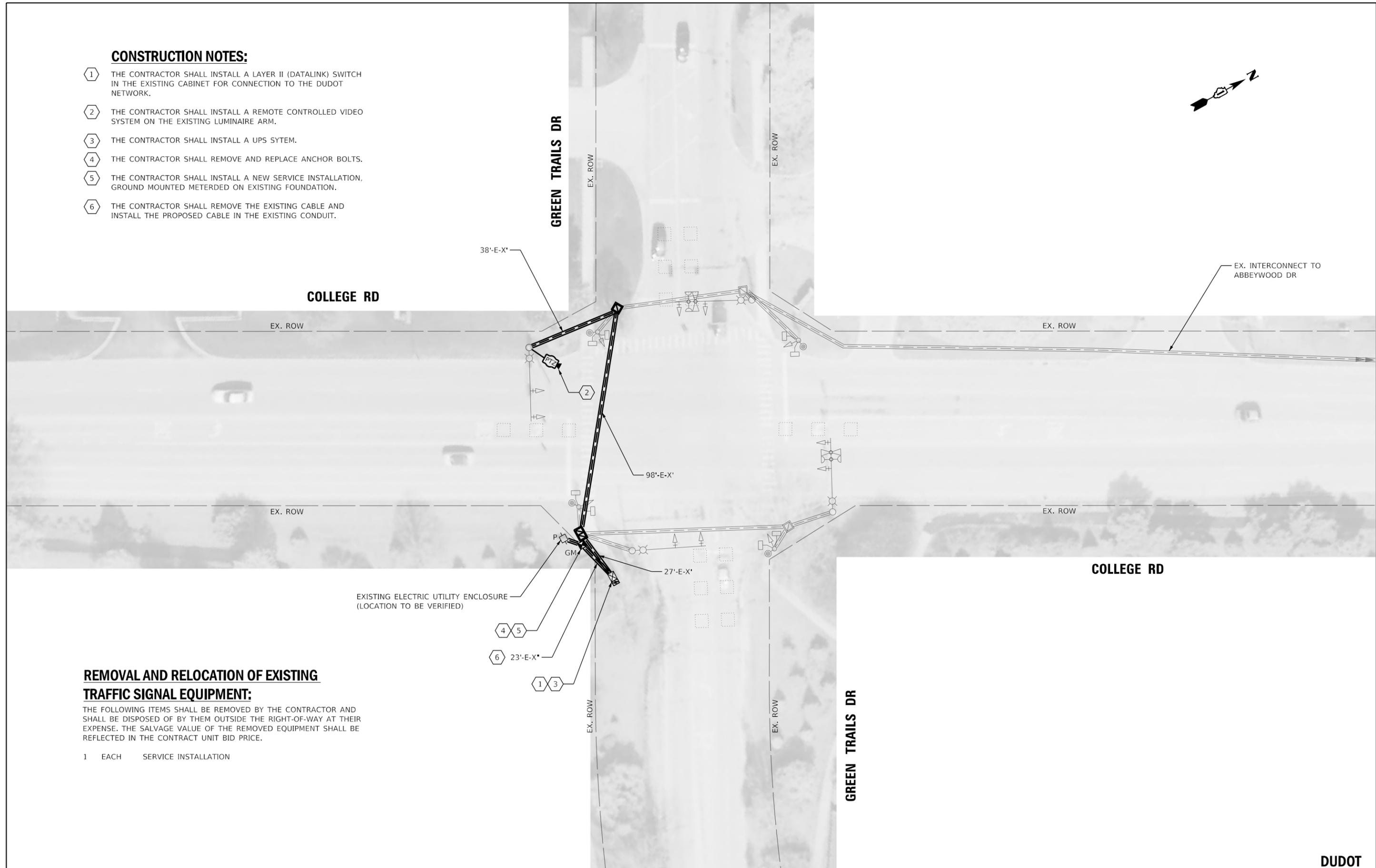
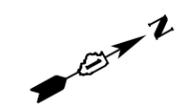
SCALE: NTS SHEET 131 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	149
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 4 THE CONTRACTOR SHALL REMOVE AND REPLACE ANCHOR BOLTS.
- 5 THE CONTRACTOR SHALL INSTALL A NEW SERVICE INSTALLATION, GROUND MOUNTED METERDED ON EXISTING FOUNDATION.
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.



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.

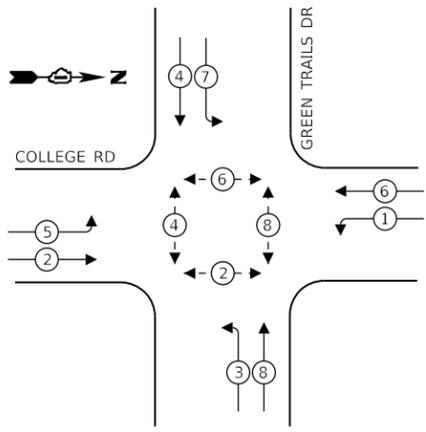
- 1 EACH SERVICE INSTALLATION

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN COLLEGE RD AND GREEN TRAILS DR			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	71	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	150
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=20'	SHEET 132	OF 172	SHEETS	STA.	TO STA.	CONTRACT NO. 61H22	
	PLOT DATE = 8/2/2021	DATE -	REVISED -								ILLINOIS FED. AID PROJECT	

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\ICADD_Sheets\stt-collegets-plan.dgn
Int71

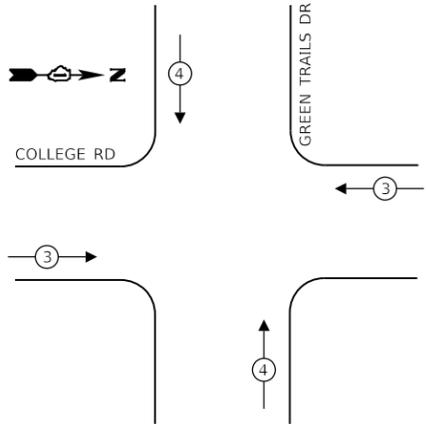
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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.

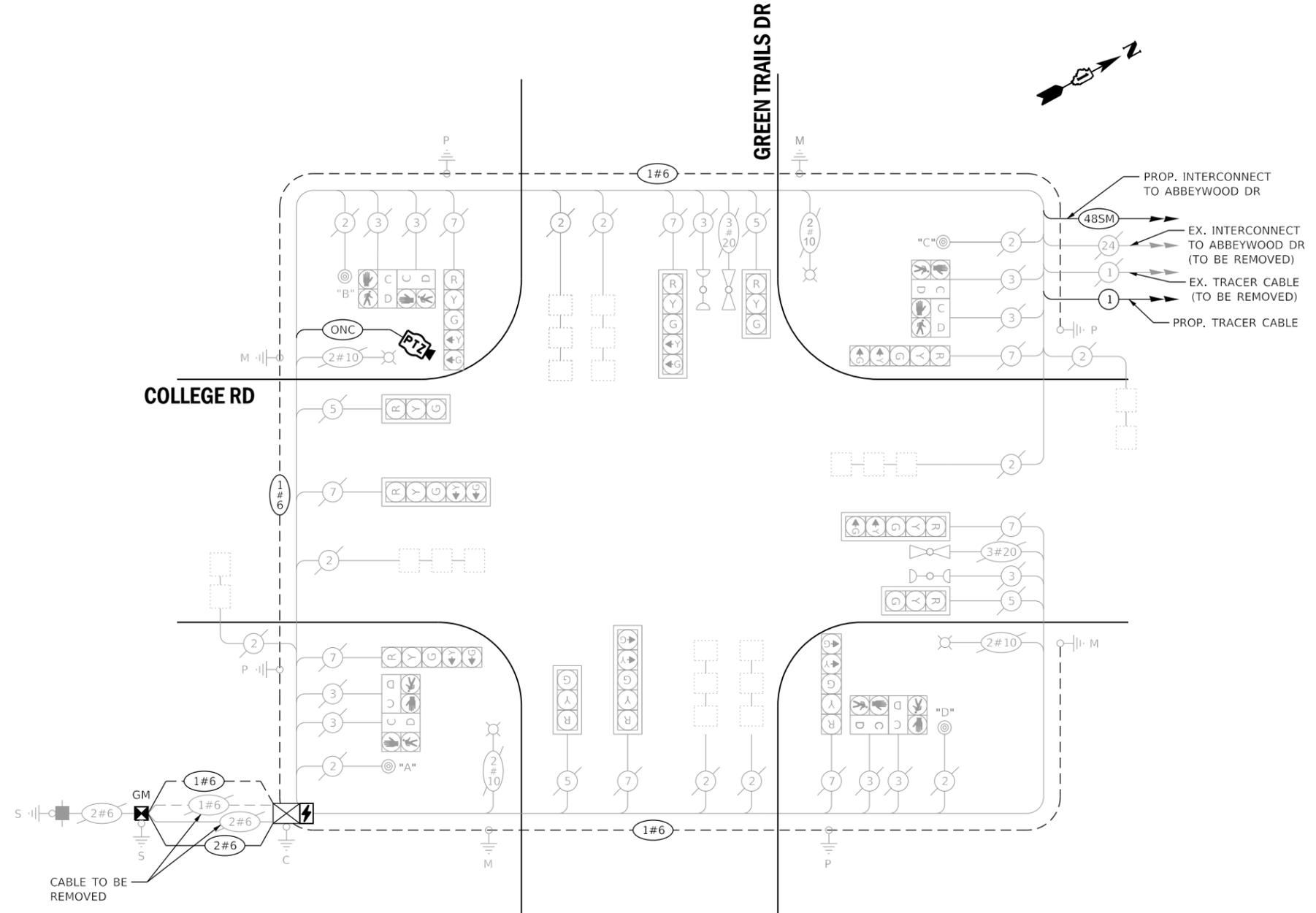
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER: _____

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
45	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
46	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
23	FOOT	ROD AND CLEAN EXISTING CONDUIT
255	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	SERVICE INSTALLATION, GROUND MOUNTED, METERED
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	REMOVE AND REPLACE ANCHOR BOLTS

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
GROUNDING EXISTING HANDHOLE FRAME AND COVER
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ROD AND CLEAN EXISTING CONDUIT
OUTDOOR RATED NETWORK CABLE
SERVICE INSTALLATION, GROUND MOUNTED, METERED
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
REMOVE AND REPLACE ANCHOR BOLTS



**CABLE PLAN
(NOT TO SCALE)**

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.

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	71	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
COLLEGE RD AND GREEN TRAILS DR**

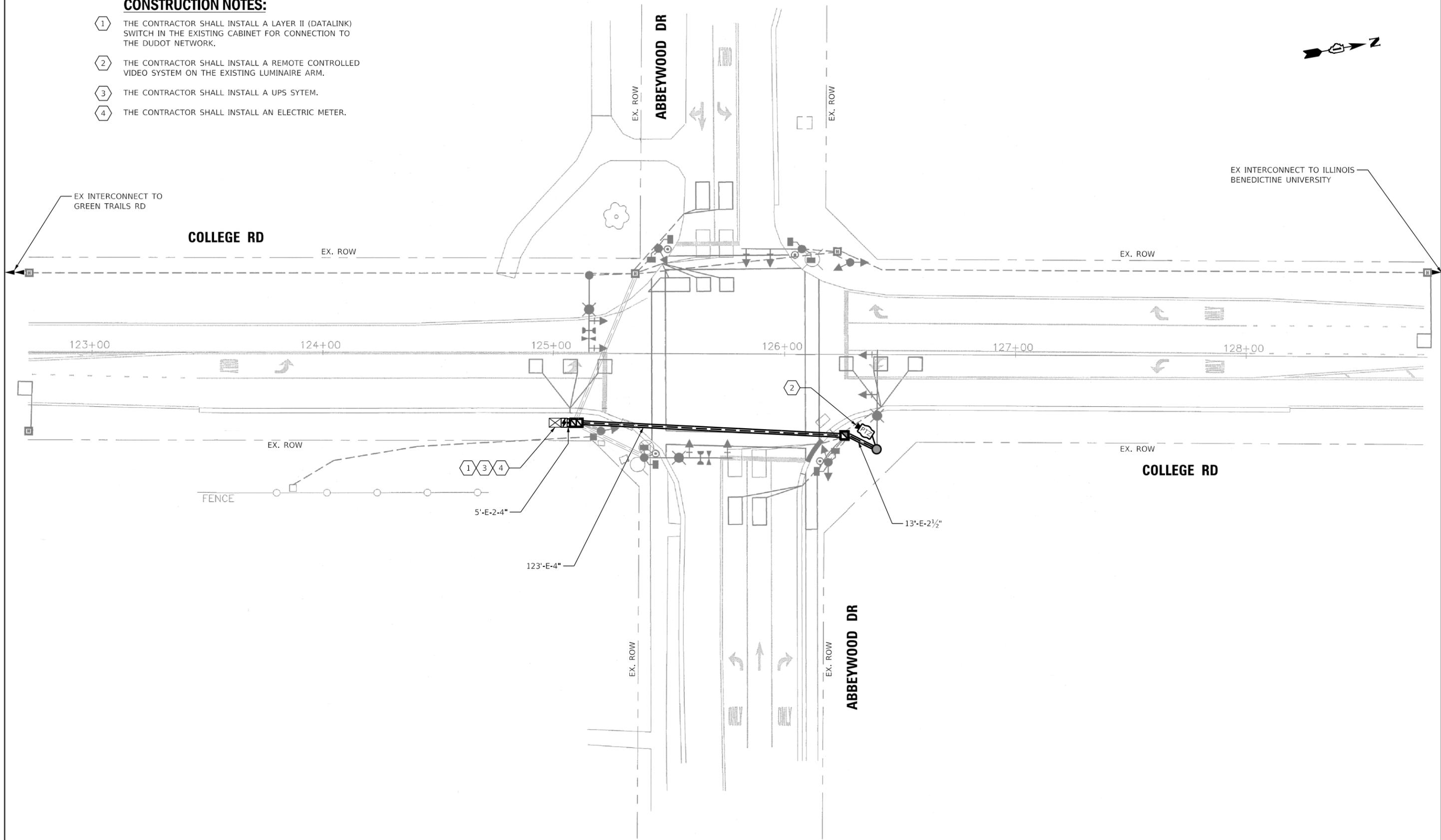
SCALE: NTS SHEET 133 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	151
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

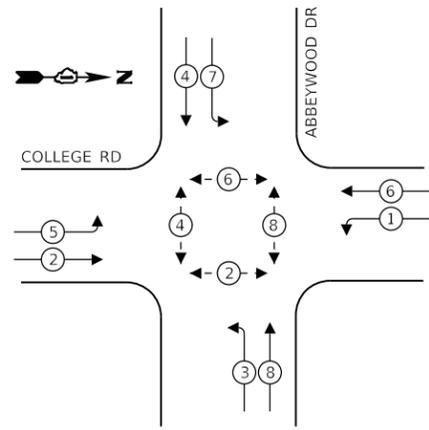


DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TRAFFIC SIGNAL MODERNIZATION PLAN COLLEGE RD AND ABBEYWOOD DR</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	69	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	152
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -									
	PLOT DATE = 8/2/2021	DATE -	REVISED -		SCALE: 1"=20'	SHEET 134	OF 172	SHEETS	STA.	TO STA.		CONTRACT NO. 61H22
												ILLINOIS FED. AID PROJECT

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\stt-collegets-plan.dgn
Int69

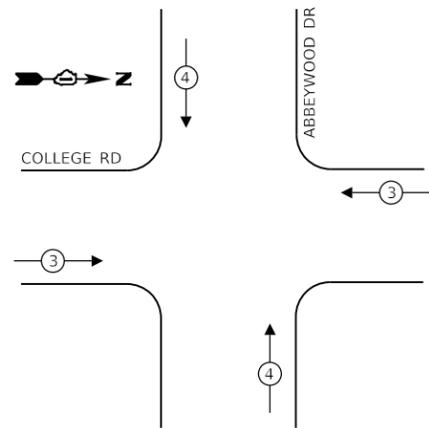
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊙* — PROTECTED PHASE
- ⊙* - - PROTECTED/PERMITTED PHASE
- ⊙* —> PEDESTRIAN PHASE
- ⊙* — OL OVERLAP

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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	3	250	50	375
PTZ CAMERA	1	75	100	75
TOTAL =				918

**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:

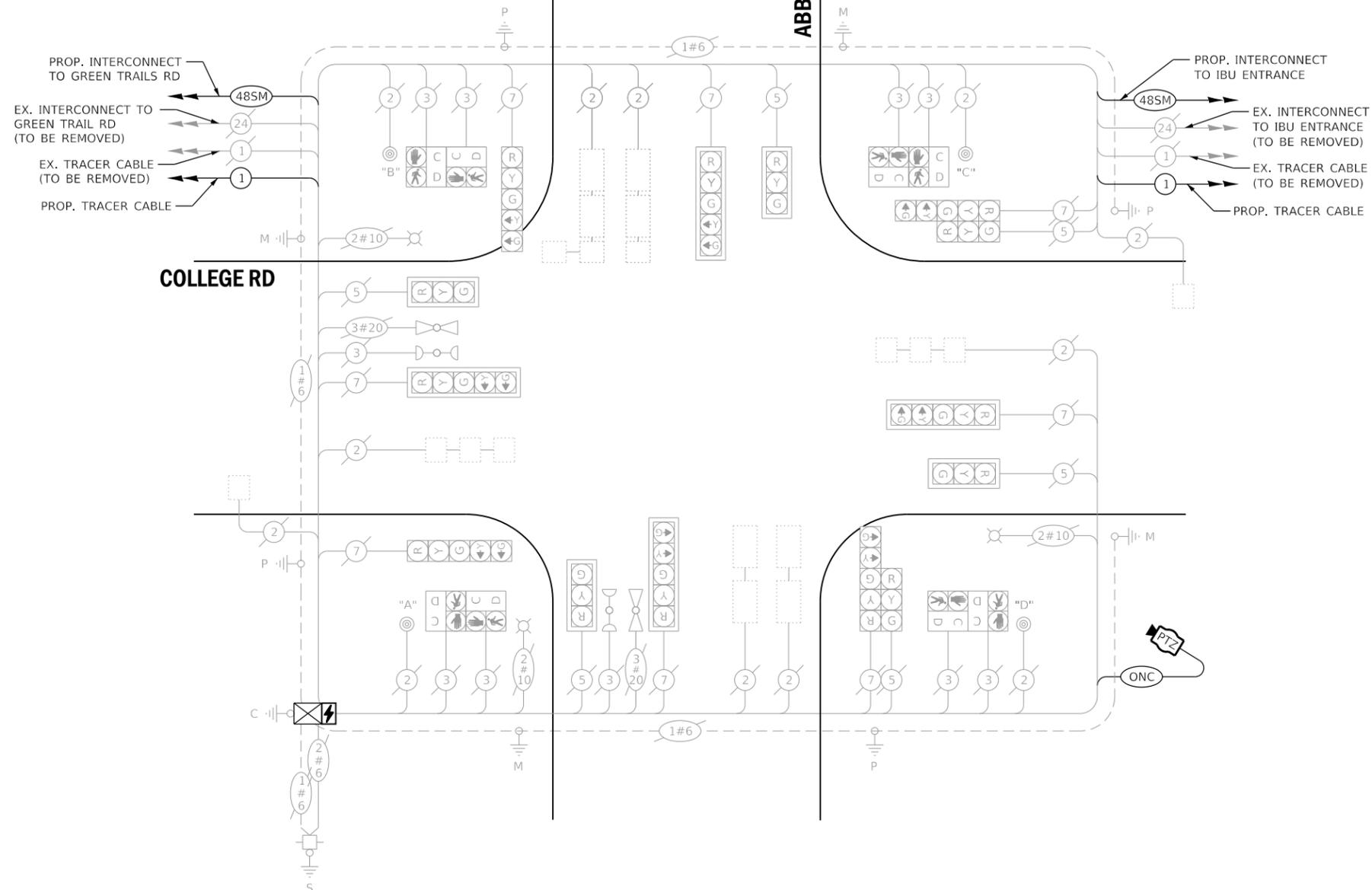
TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
235	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
235	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

COLLEGE RD

ABBEEWOOD DR



**CABLE PLAN
(NOT TO SCALE)**

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.



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
69	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

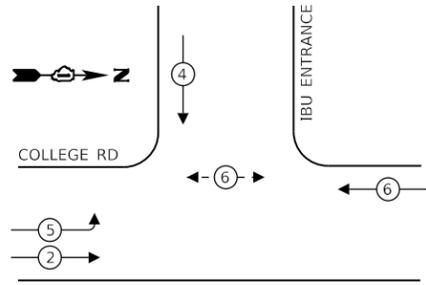
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
COLLEGE RD AND ABBEEWOOD DR**

SCALE: NTS SHEET 135 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	153
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

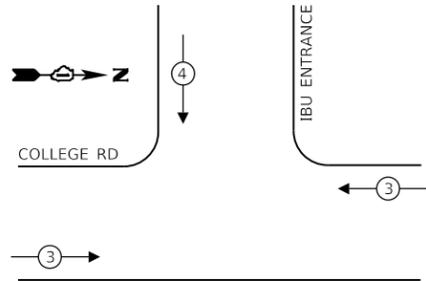
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	50
(YELLOW)	9	20	5	9
(GREEN)	9	12	45	49
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	-	75	100	-
TOTAL =				527

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

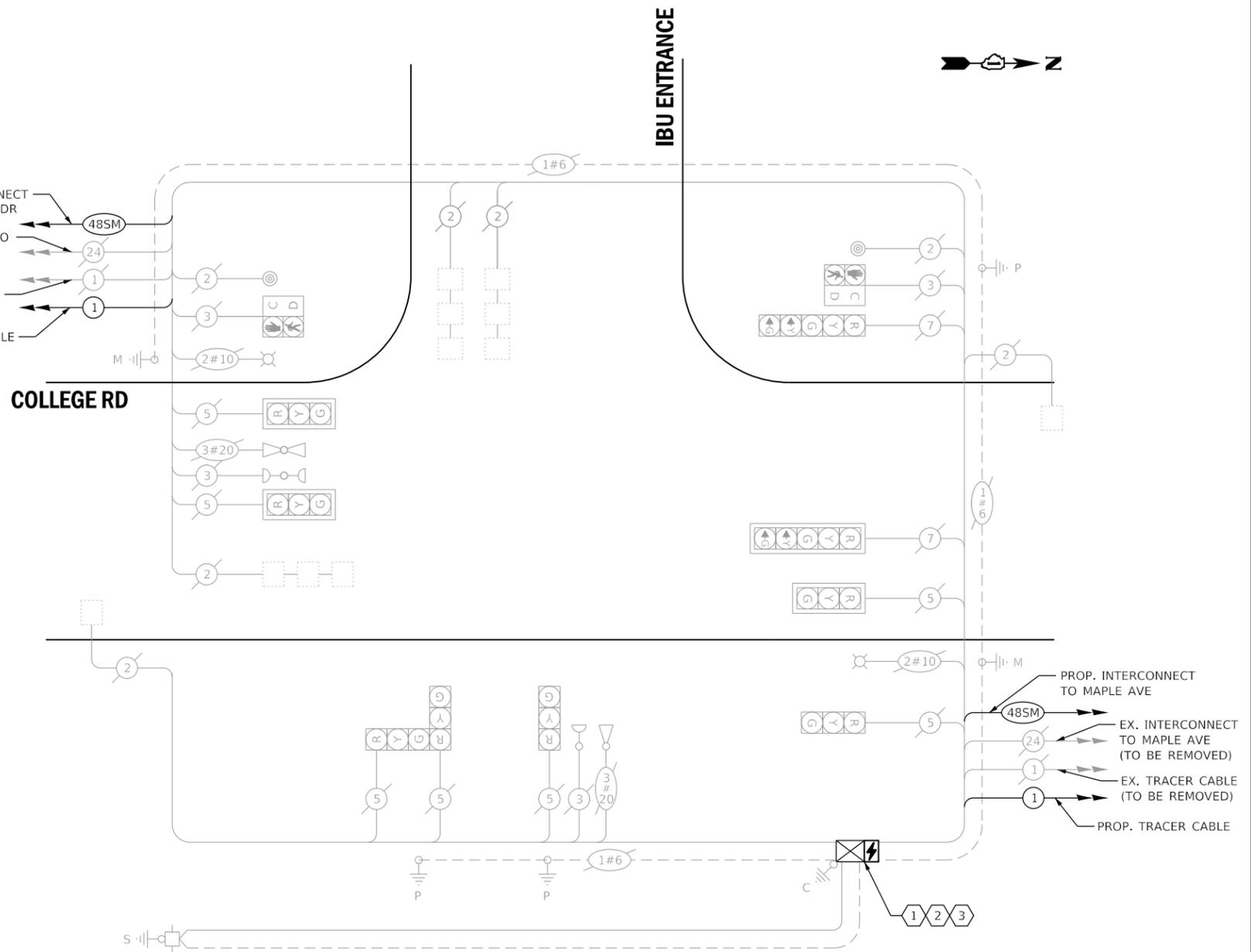
ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



CABLE PLAN
(NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	70	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

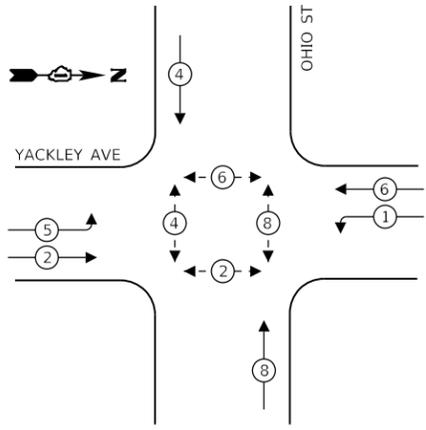
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
COLLEGE RD AND IBU ENTRANCE

SCALE: NTS SHEET 136 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	154
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

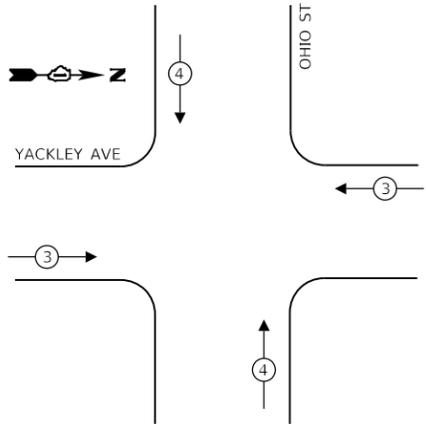
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ⊙* — PROTECTED PHASE
- ⊙* — PROTECTED/PERMITTED PHASE
- ⊙* — PEDESTRIAN PHASE
- ⊙* OL — OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
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	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				606

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

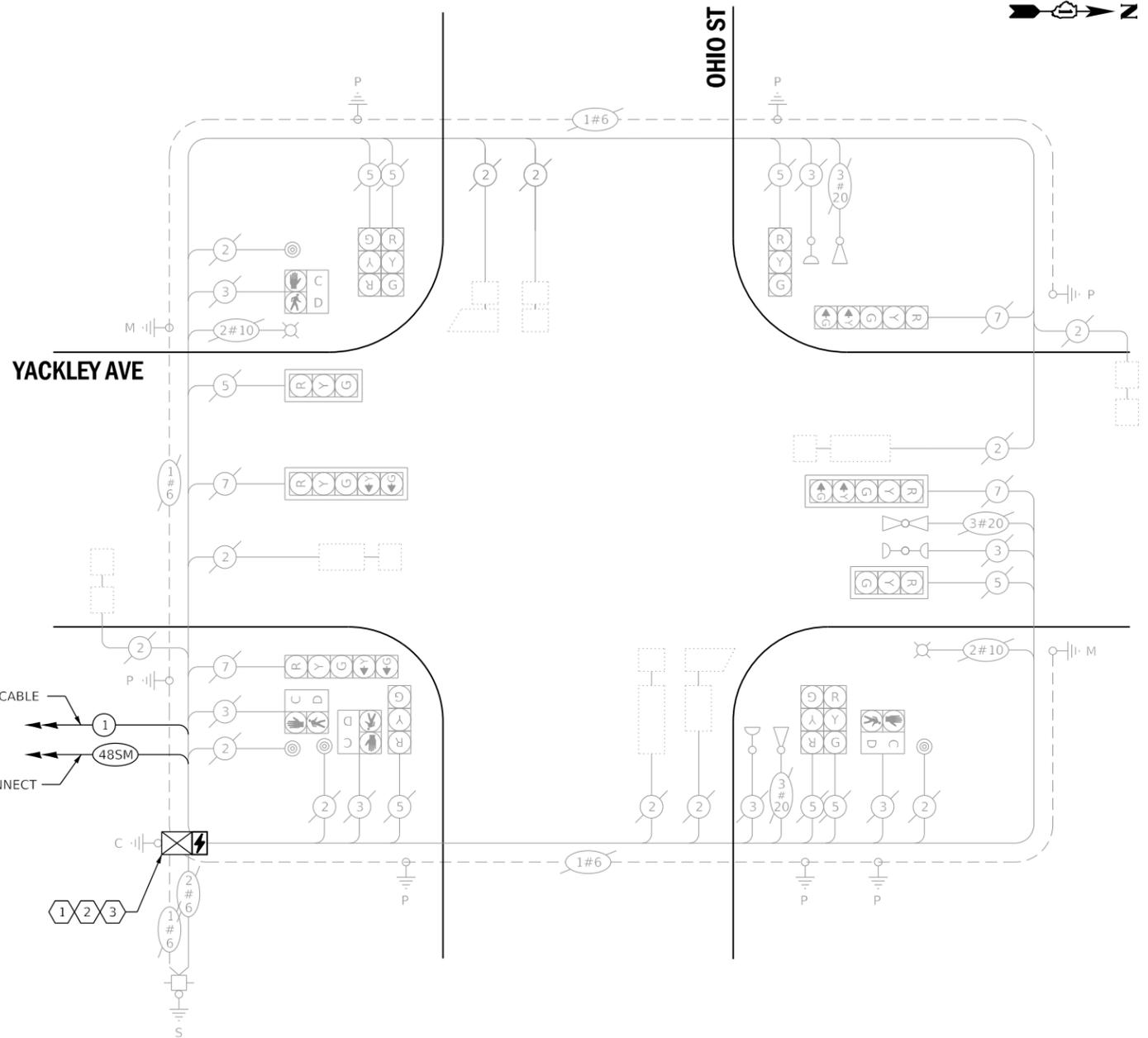
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
LAYER II (DATALINK) SWITCH
ELECTRIC METER



CABLE PLAN

(NOT TO SCALE)



USER NAME = zhoerbert
118
PLOT SCALE = 40.0000 ' / in.
PLOT DATE = 8/2/2021

DESIGNED - ZH	REVISED -
DRAWN - RG	REVISED -
CHECKED - DW	REVISED -
DATE -	REVISED -

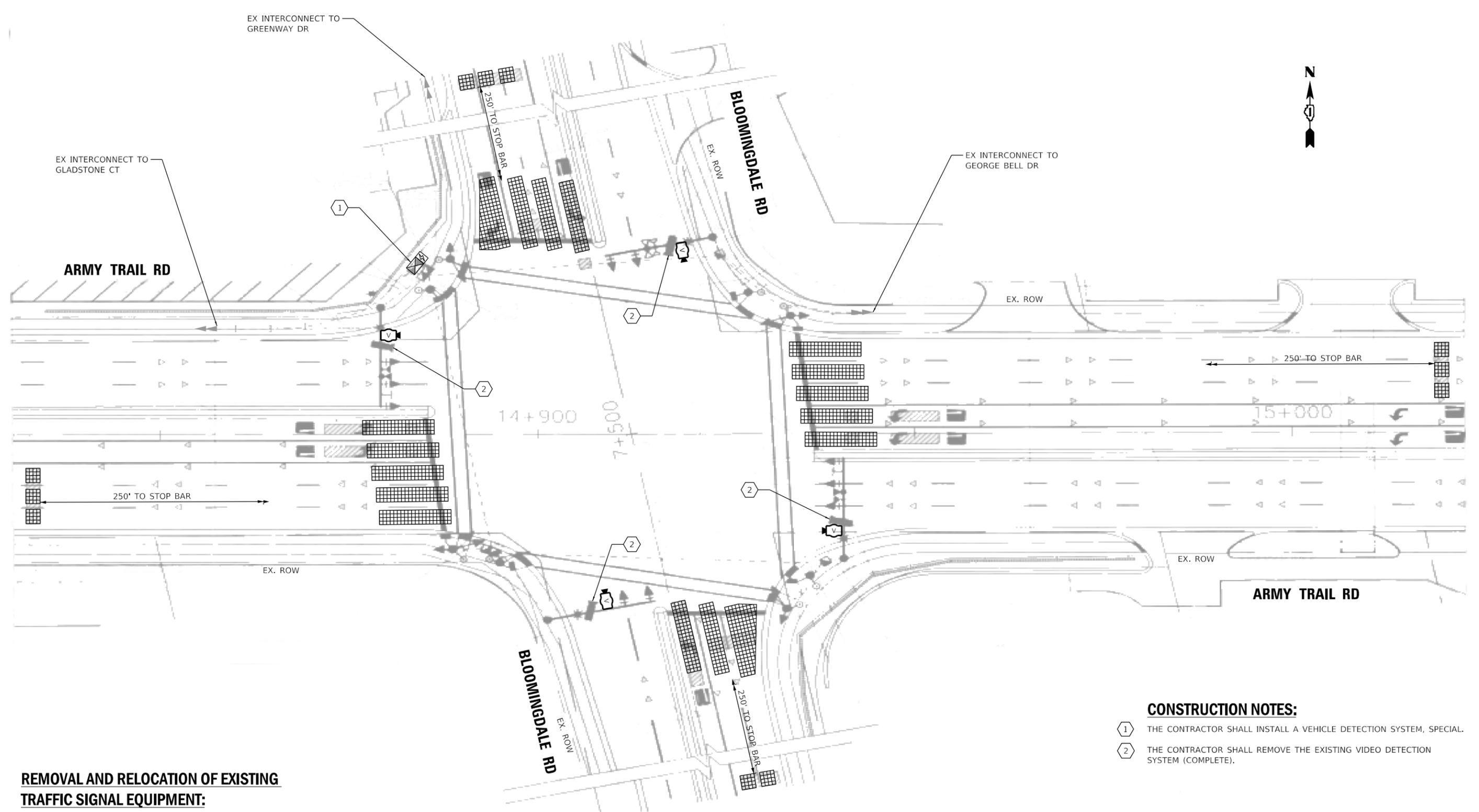
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
YACKLEY AVE AND OHIO ST

SCALE: NTS SHEET 137 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	155
				CONTRACT NO. 61H22
ILLINOIS FED. AID PROJECT				

DUDOT



REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING VIDEO DETECTION SYSTEM (COMPLETE).

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
200	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

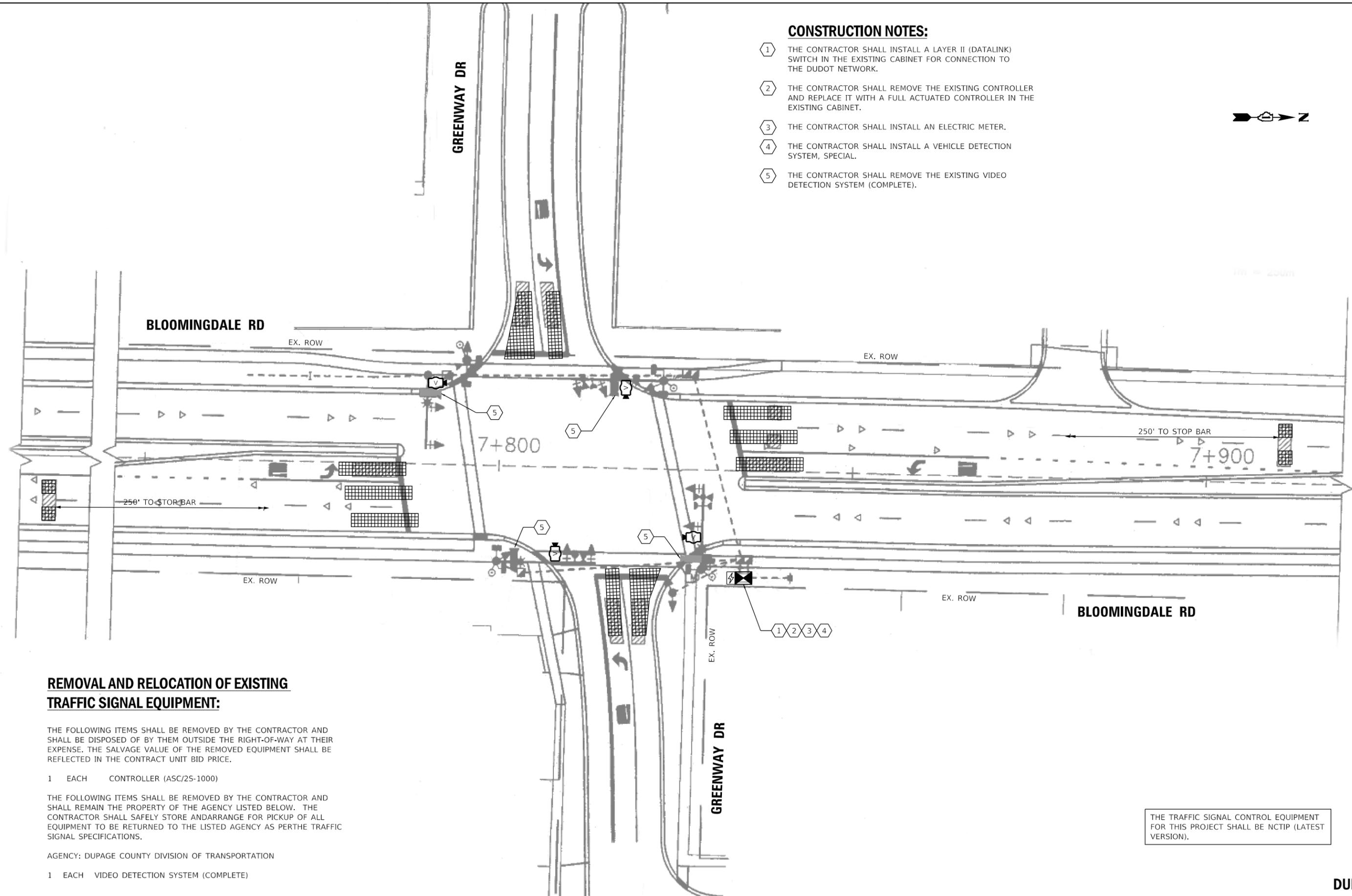
TRAFFIC SIGNAL MODERNIZATION PLAN
BLOOMINGDALE RD AND ARMY TRAIL RD

SCALE: SHEET 138 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	156
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 4 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL.
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING VIDEO DETECTION SYSTEM (COMPLETE).



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/25-1000)

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 PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

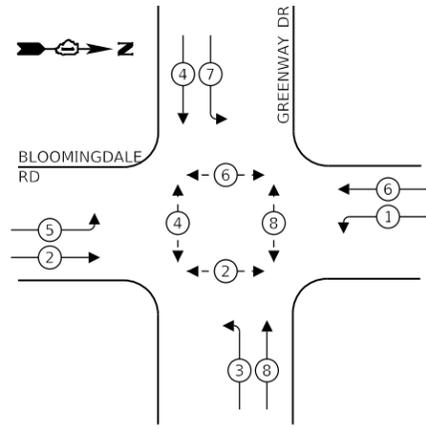
- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)

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

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN BLOOMINGDALE RD AND GREENWAY DR	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	65	DRAWN - RG	REVISED -			VAR.	19-DCCSS-03-TL	DUPAGE	307	158
	PLOT SCALE = 40.0000 "/>									
	PLOT DATE = 8/2/2021	DATE -	REVISED -	SCALE:	SHEET 140 OF 172 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

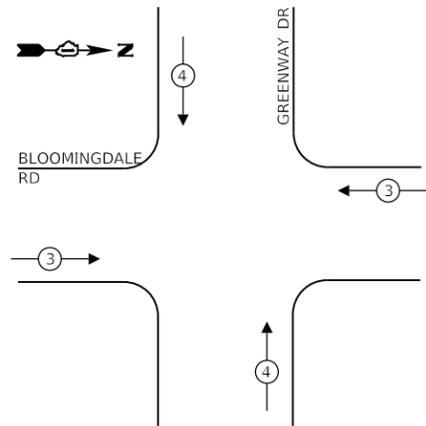
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	-	75	100	-
TOTAL =				1118

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
ACCOUNT NUMBER:

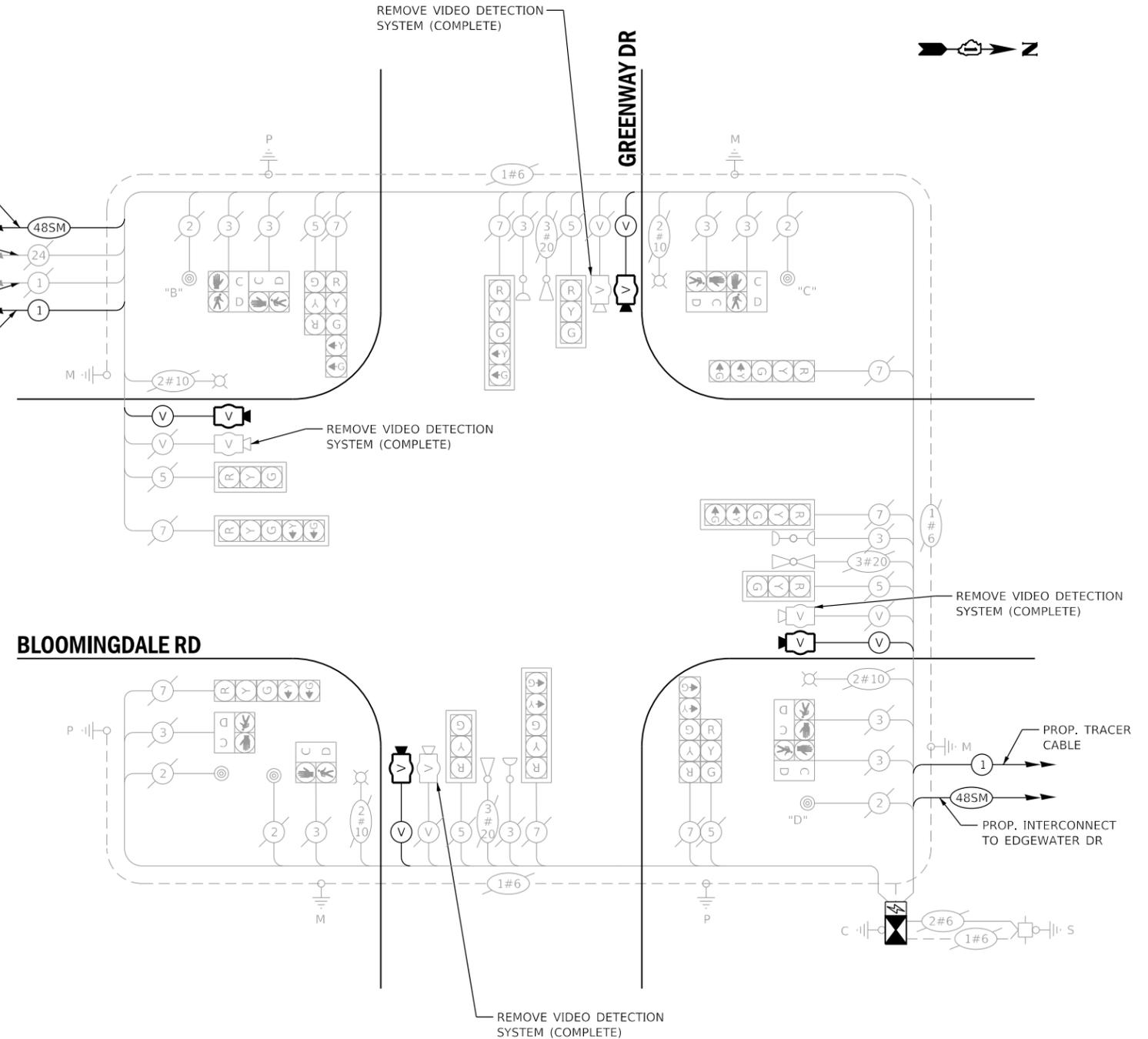
TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2007	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2007	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

REMOVE VIDEO DETECTION SYSTEM (COMPLETE)

- PROP. INTERCONNECT TO ARMY TRAIL RD
- EX. INTERCONNECT TO ARMY TRAIL RD (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE



BLOOMINGDALE RD

CABLE PLAN
(NOT TO SCALE)

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 8 AND 2

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

DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
65	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

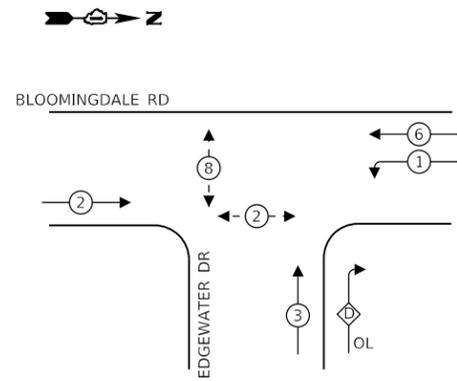
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
BLOOMINGDALE RD AND GREENWAY DR**

SCALE: SHEET 141 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	159
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

EXISTING CONTROLLER SEQUENCE



LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 3	+ 1

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/2-2100) AND CABINET (COMPLETE)
- 1 EACH 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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

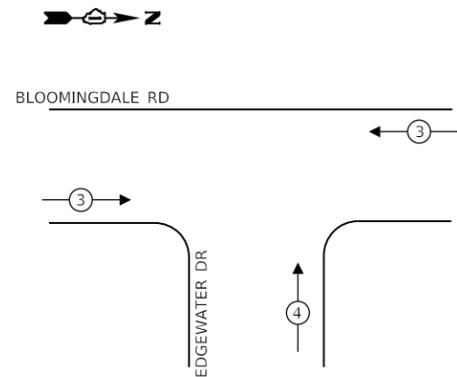
CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 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. INSTALL LIGHT DETECTOR AMPLIFIER.
- 3 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (11'-E-X').

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
30	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
7	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
11	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

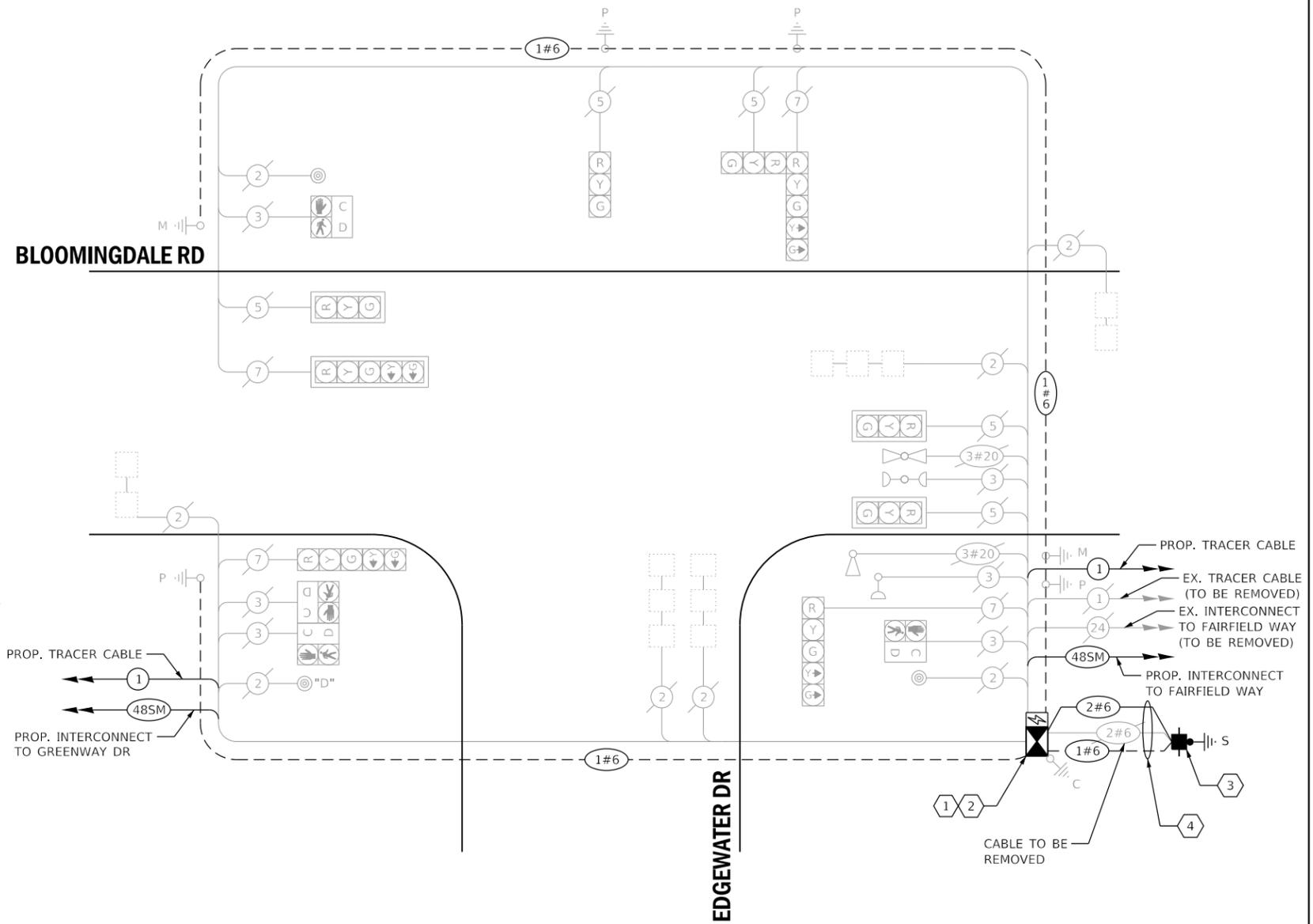
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	50
(YELLOW)	9	20	5	9
(GREEN)	9	12	45	49
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				321

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
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

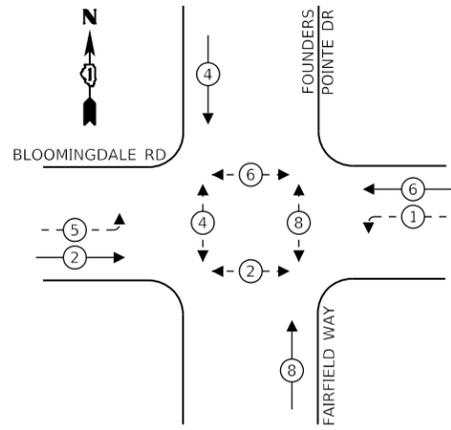
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 2 AND 8.

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

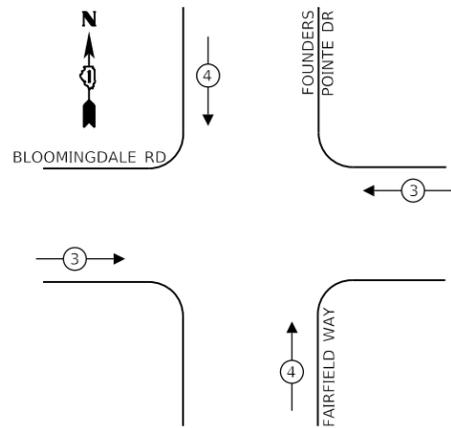
	USER NAME = zhoerbert DESIGNED - ZH DRAWN - RG CHECKED - DW DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES BLOOMINGDALE RD AND EDGEWATER DR	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000' / in. PLOT DATE = 8/2/2021	SCALE:			SHEET 142 OF 172 SHEETS	STA. TO STA.	19-DCCSS-03-TL	DUPAGE	307
					ILLINOIS		FED. AID PROJECT		

DUDOT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
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	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				436

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
ACCOUNT NUMBER:

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.

- 1 EACH CONTROLLER (ASC/2-2100) AND CABINET (COMPLETE)

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

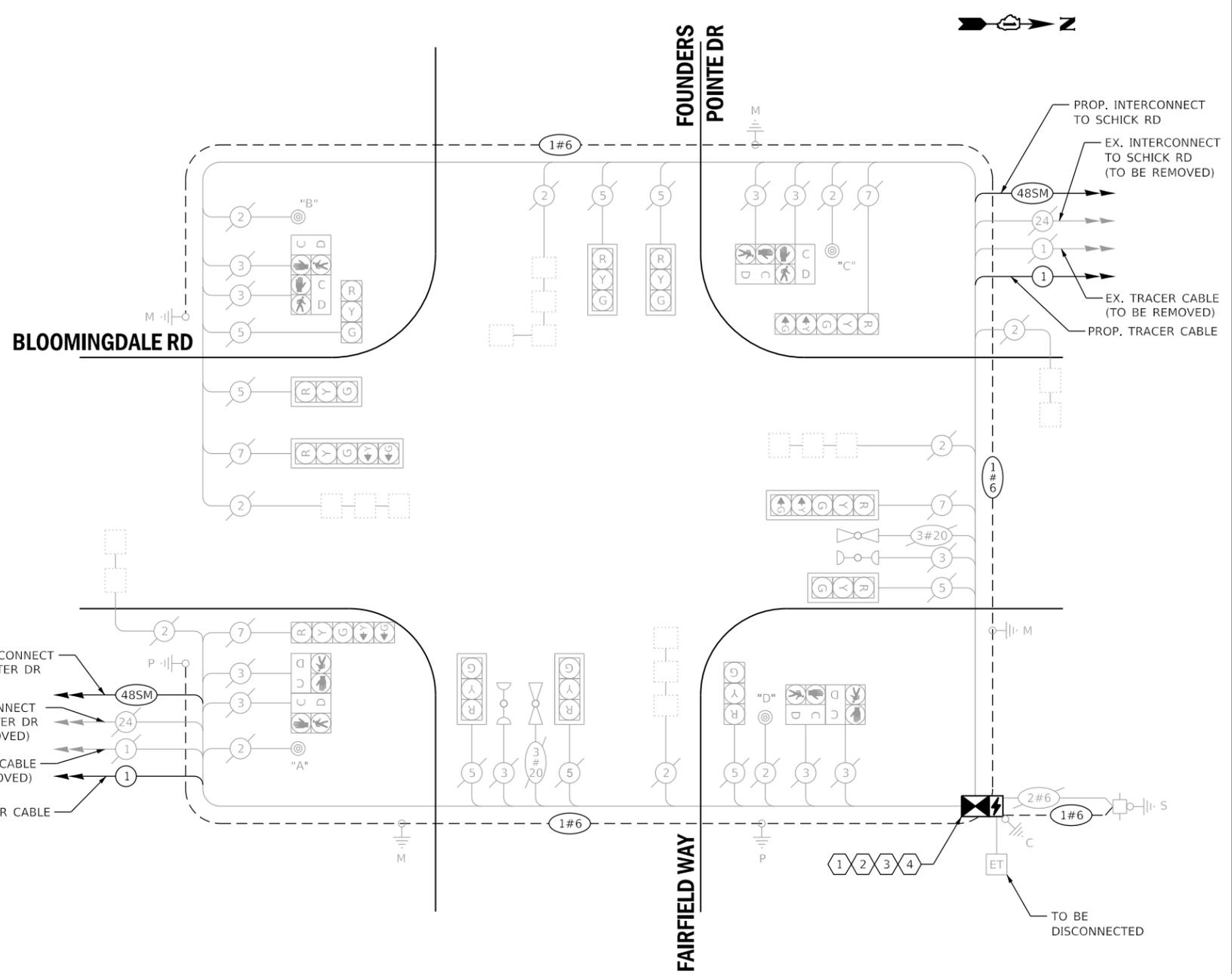
- 1 EACH MODEM
- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 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. INSTALL LIGHT DETECTOR AMPLIFIER.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



CABLE PLAN
(NOT TO SCALE)

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.

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

DUDOT

	USER NAME = zhoerbert DESIGNED - ZH DRAWN - RG CHECKED - DW DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES BLOOMINGDALE RD AND FAIRFIELD WAY	F.A. RTE. VAR.	SECTION 19-DCCSS-03-TL	COUNTY DUPAGE	TOTAL SHEETS 307	SHEET NO. 161
	PLOT SCALE = 40.0000' / in. PLOT DATE = 8/2/2021		SCALE: SHEET 143 OF 172 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61H22		

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE 'ECONOLITE' TO MATCH THE ADJACENT SYSTEM AND SHALL BE CAPABLE OF OPERATING IN BOTH A CLOSED LOOP SYSTEM (ECLIP) AND A NTCIP (LATEST VERSION) CENTRACS SYSTEM BASED ON USER SELECTABLE SETTINGS.

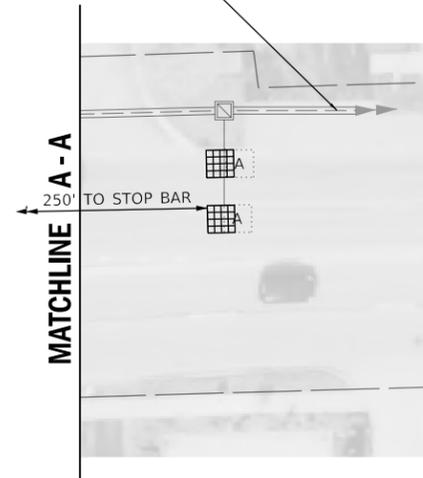
THE NETWORK CONFIGURATION OF THIS CONTROLLER, WHETHER OPERATING WITH THE US RTE 20 CLOSED LOOP SYSTEM OR THE DUDOT CENTRACS SYSTEM, WILL BE AS DIRECTED BY THE DUDOT TRAFFIC ENGINEER AT THE TIME OF INSTALLATION. THE LAYER III SWITCH, PTZ CAMERA, AND VEHICLE DETECTION SYSTEM, SPECIAL, WILL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

EX INTERCONNECT TO FAIRFIELD WAY/
FOUNDERS POINTE DR

BLOOMINGDALE RD

SCHICK RD

EX INTERCONNECT TO
US RTE 20 (LAKE ST)



MATCHLINE A - A

250' TO STOP BAR

MATCHLINE A - A

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/2-2100)

REMOVE EXISTING HANDHOLE

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 5 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 6 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.

SCHICK RD

BLOOMINGDALE RD

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
63	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

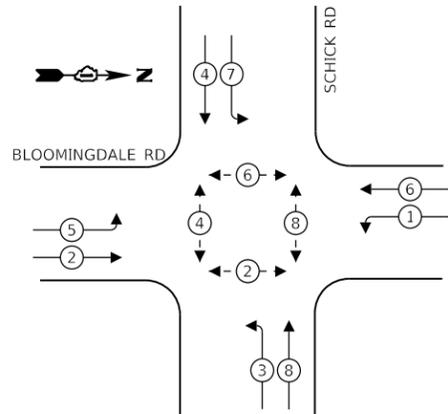
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
BLOOMINGDALE RD AND SCHICK RD

SCALE: SHEET 144 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	162
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

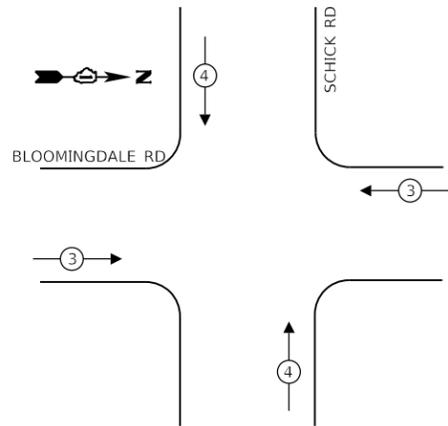
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				967

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

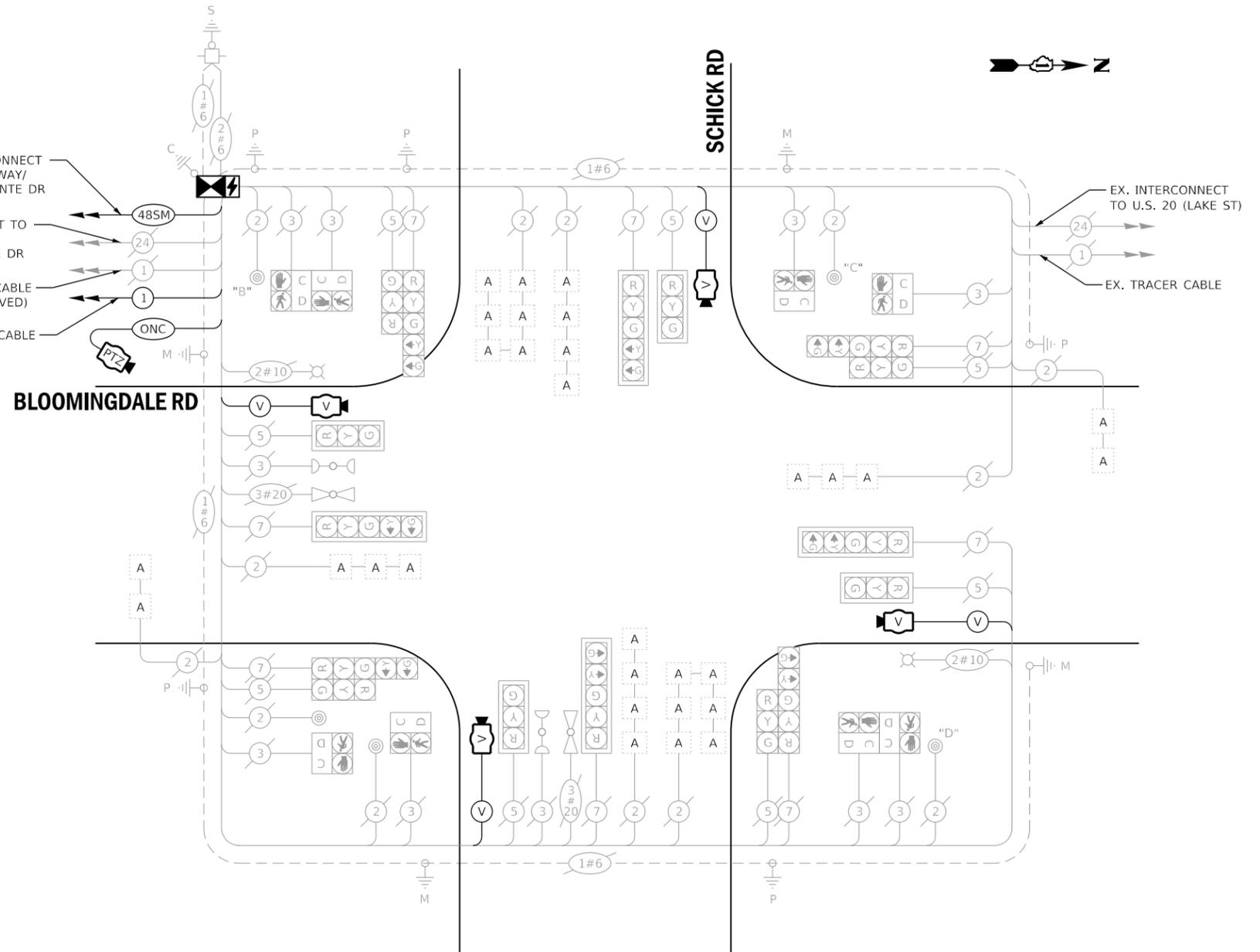
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1475	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
135	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1475	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
135	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



CABLE PLAN
(NOT TO SCALE)

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.

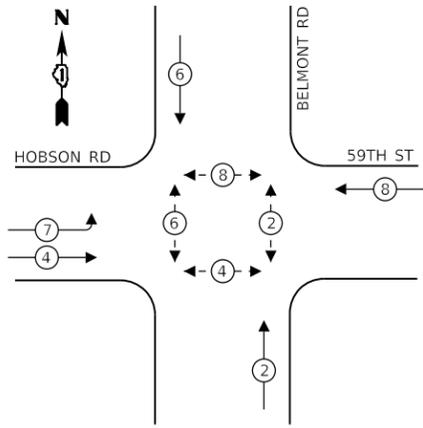
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE 'ECONOLITE' TO MATCH THE ADJACENT SYSTEM AND SHALL BE CAPABLE OF OPERATING IN BOTH A CLOSED LOOP SYSTEM (ECP/IP) AND A NTCIP (LATEST VERSION) CENTRACS SYSTEM BASED ON USER SELECTABLE SETTINGS.

THE NETWORK CONFIGURATION OF THIS CONTROLLER, WHETHER OPERATING WITH THE US RTE 20 CLOSED LOOP SYSTEM OR THE DUDOT CENTRACS SYSTEM, WILL BE AS DIRECTED BY THE DUDOT TRAFFIC ENGINEER AT THE TIME OF INSTALLATION. THE LAYER III SWITCH, PTZ CAMERA, AND VEHICLE DETECTION SYSTEM, SPECIAL, WILL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

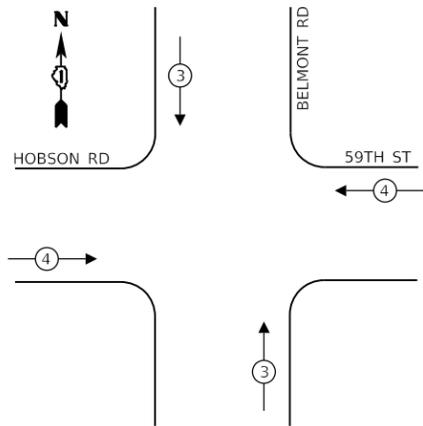
DUDOT

	USER NAME = zhoerbert DESIGNED - ZH DRAWN - RG CHECKED - DW DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES BLOOMINGDALE RD AND SCHICK RD	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. VAR. 19-DCCSS-03-TL DUPAGE 307 163
	PLOT SCALE = 40.0000 "/>				

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

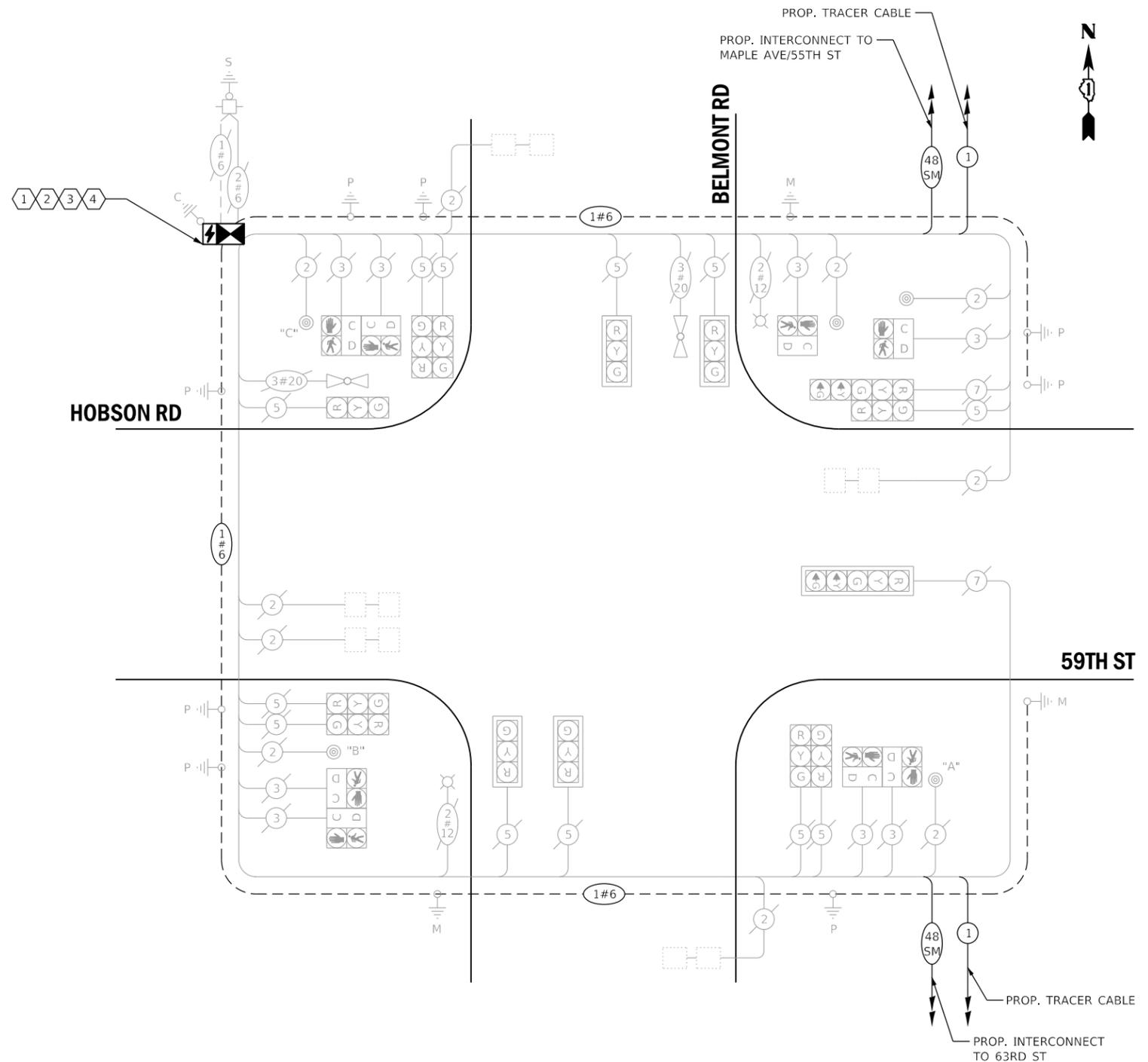
CONSTRUCTION NOTES:

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

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-1000)



CABLE PLAN
(NOT TO SCALE)

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.

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	4	10	10	4
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 =				706

ENERGY COSTS TO:

VILLAGE OF DOWNERS GROVE

801 BURLINGTON AVE
DOWNERS GROVE, IL 60515

ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

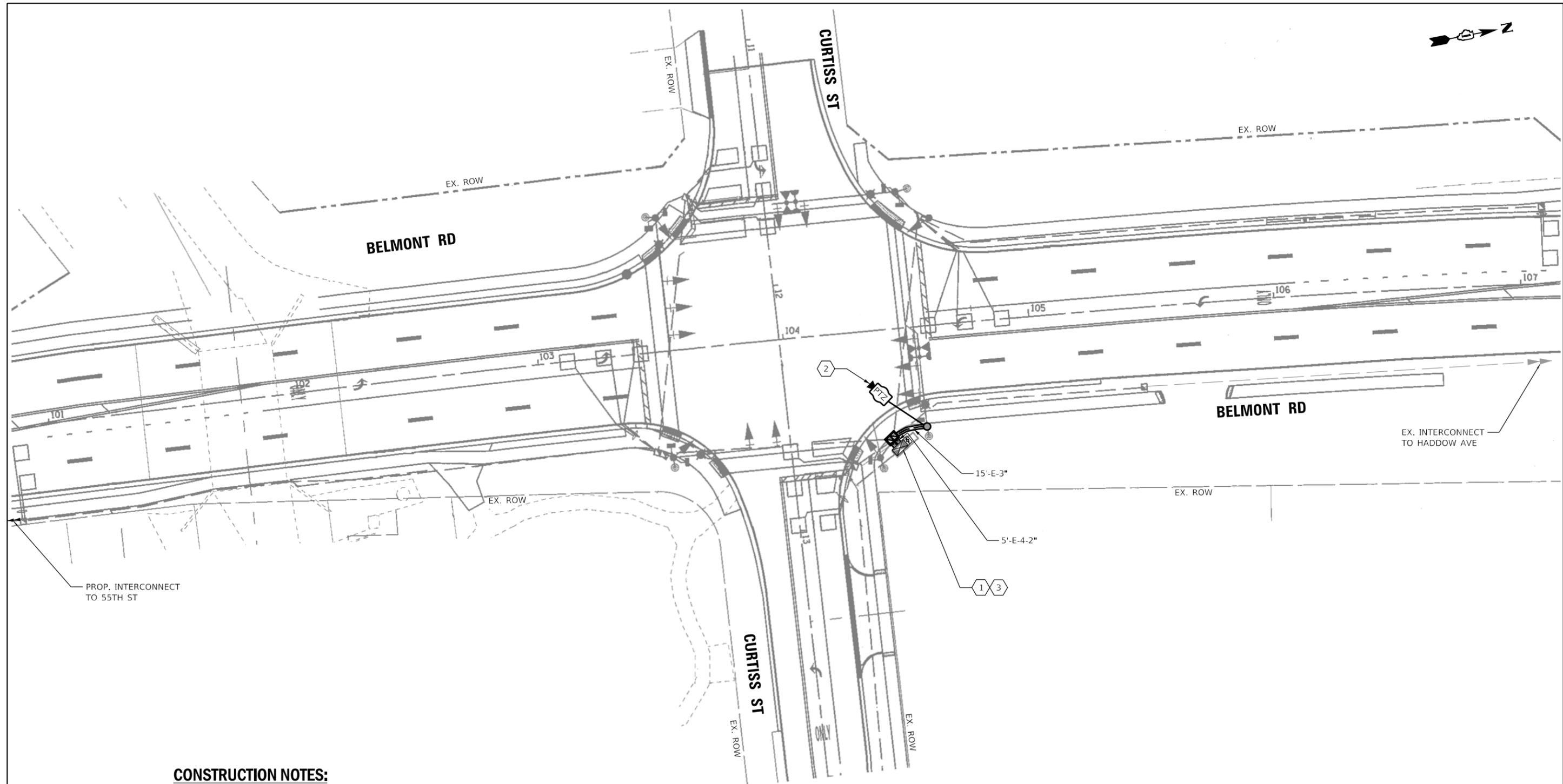
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
BELMONT RD AND HOBSON RD/59TH ST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	164
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET 146 OF 172 SHEETS STA. TO STA.



DUDOT



PROP. INTERCONNECT TO 55TH ST

EX. INTERCONNECT TO HADDOW AVE

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
59	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

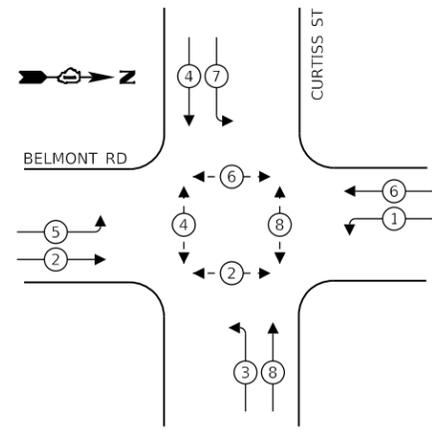
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
BELMONT RD AND CURTISS ST**

SCALE: 1"=20' SHEET 147 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	165
			CONTRACT NO.	61H22
ILLINOIS FED. AID PROJECT				

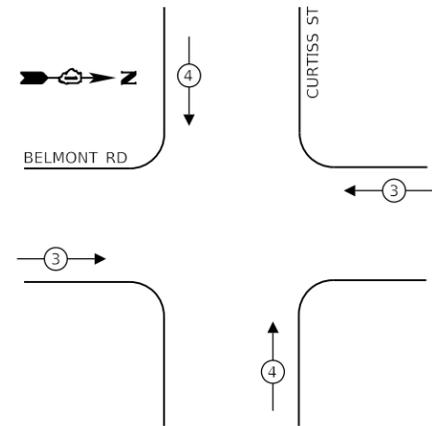
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1043

ENERGY COSTS TO:

VILLAGE OF DOWNERS GROVE

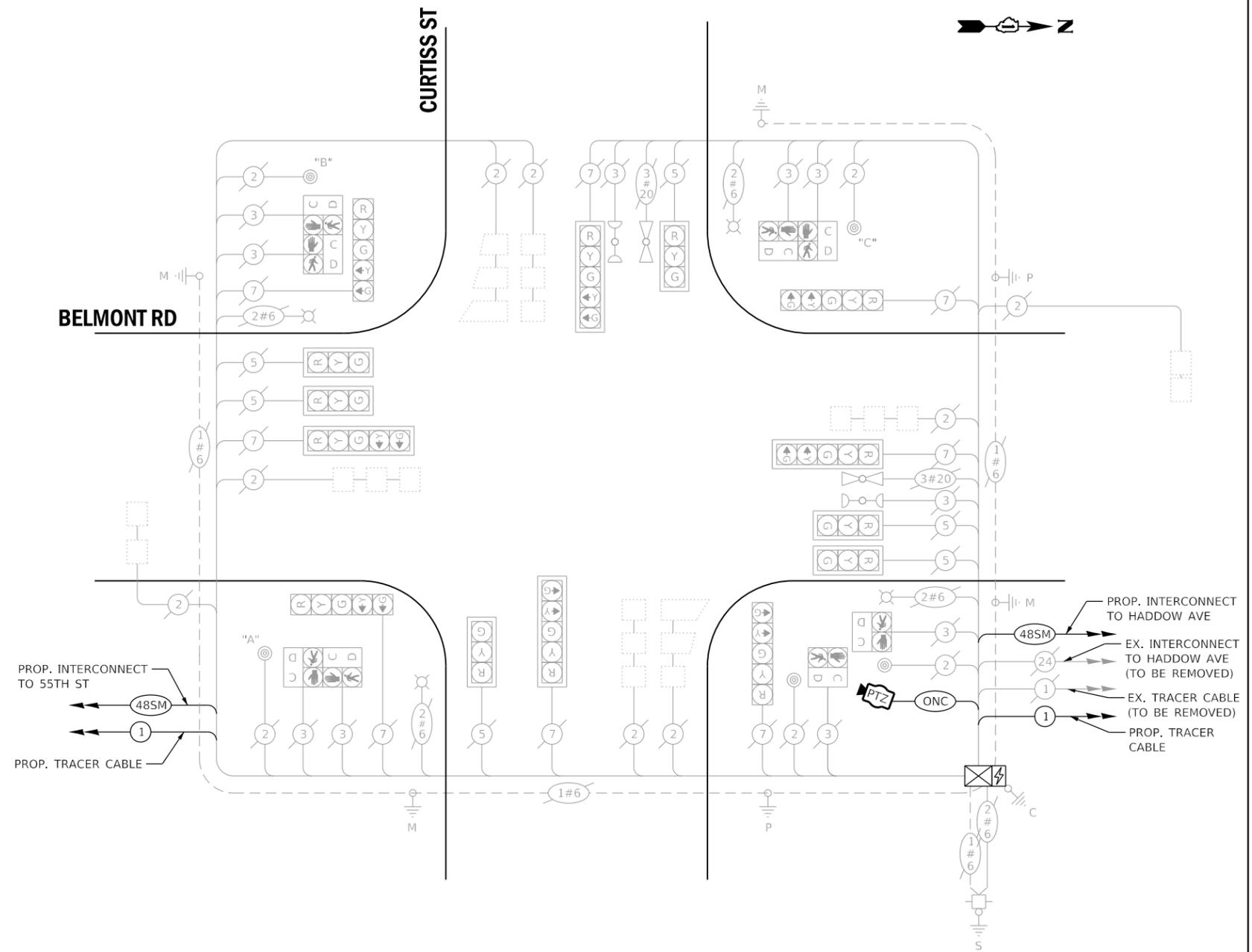
801 BURLINGTON AVE
DOWNERS GROVE, IL 60515

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER: _____

TOTAL QUANTITY	UNITS
1	EACH
110	FOOT
1	EACH
1	EACH
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
OUTDOOR RATED NETWORK CABLE
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
ELECTRIC METER



**CABLE PLAN
(NOT TO SCALE)**

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	59	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

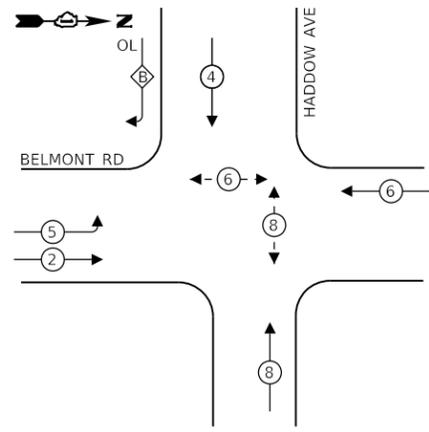
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
BELMONT RD AND CURTISS ST**

SCALE: SHEET 148 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	166
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

EXISTING CONTROLLER SEQUENCE



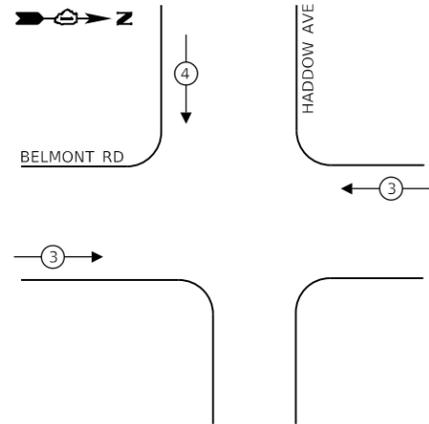
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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

- 1 EACH MODEM
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	71
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	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				619

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

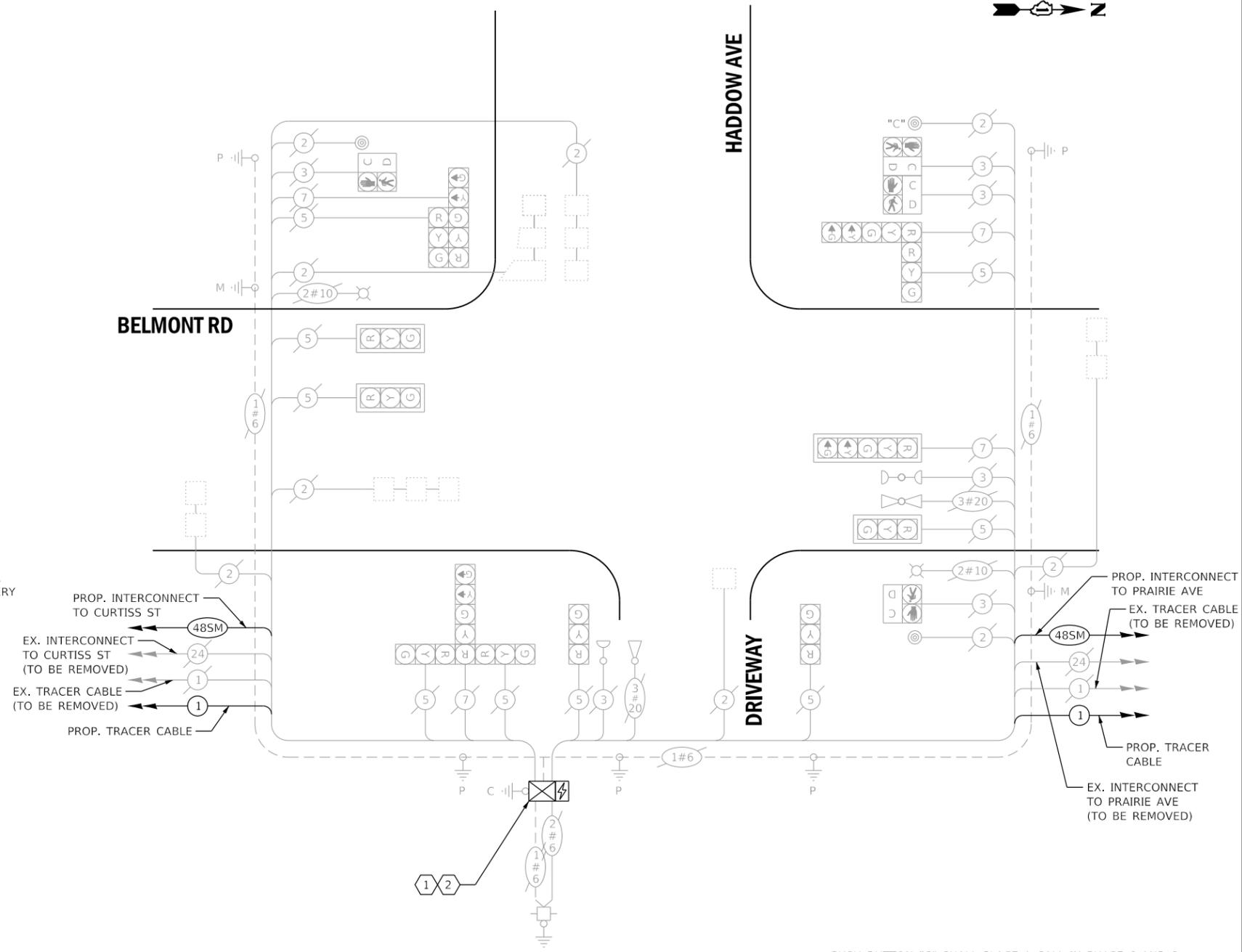
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

BELMONT RD



CABLE PLAN (NOT TO SCALE)

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



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
60	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
BELMONT RD AND HADDOW AVE**

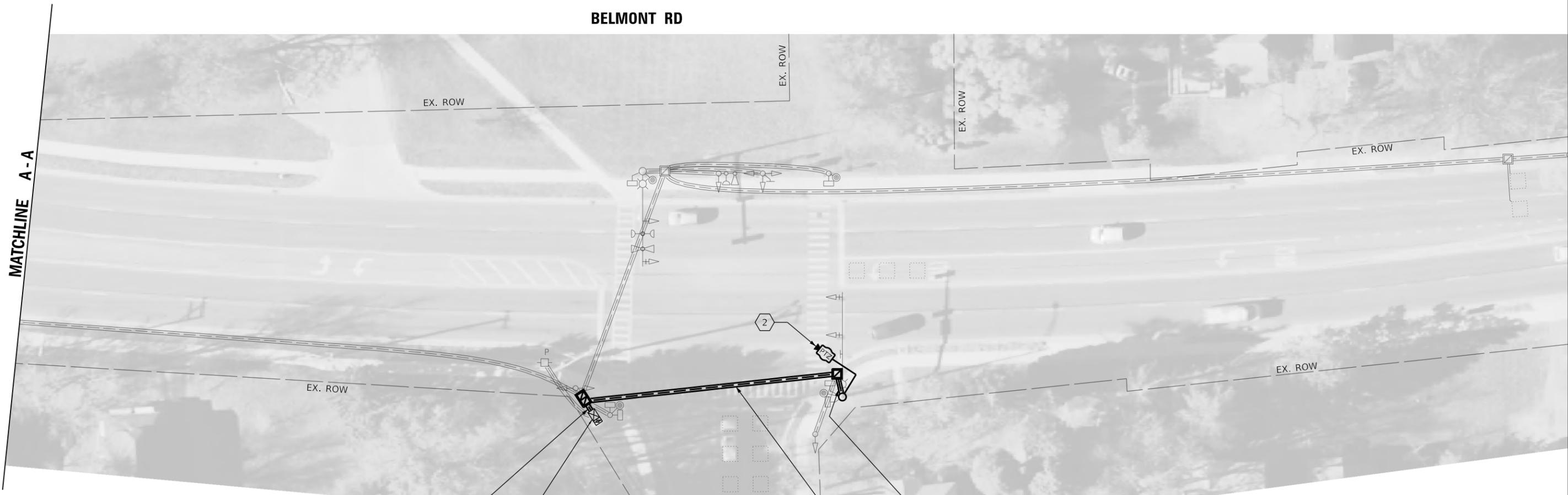
SCALE: SHEET 149 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	167
			CONTRACT NO.	61H22
ILLINOIS FED. AID PROJECT				

DUDOT



BELMONT RD



MATCHLINE A-A

EX. ROW

EX. ROW

EX. ROW

EX. ROW

EX. ROW

EX. ROW

5'-E-2-4"

1 3

9'-E-2 1/2"

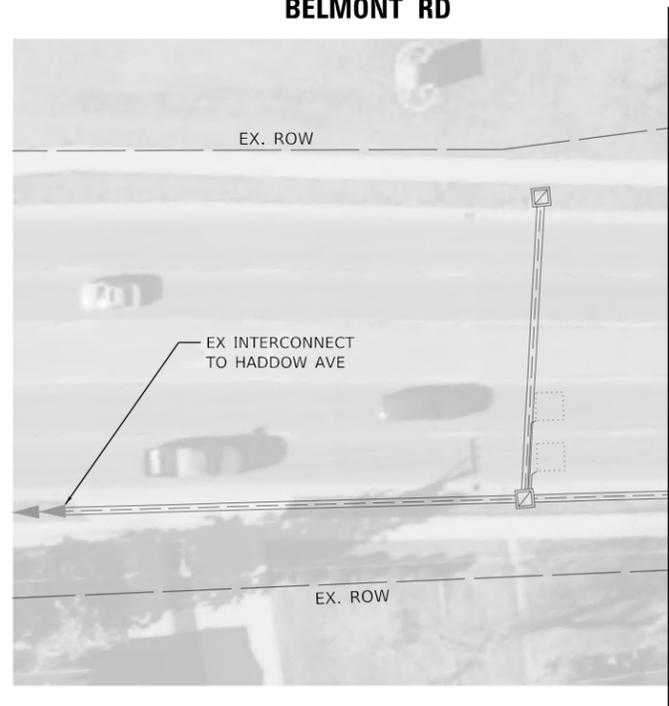
101'-E-4"

EX. ROW

EX. ROW

PRAIRIE AVE

BELMONT RD

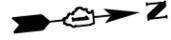


EX. ROW

EX INTERCONNECT TO HADDOW AVE

EX. ROW

MATCHLINE A-A



CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
61	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

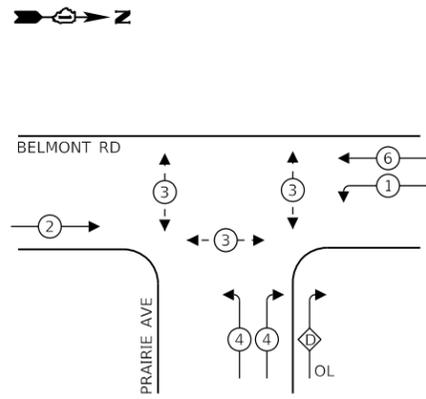
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
BELMONT RD AND PRAIRIE AVE

SCALE: SHEET 150 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	168
CONTRACT NO. 61H22				

EXISTING CONTROLLER SEQUENCE



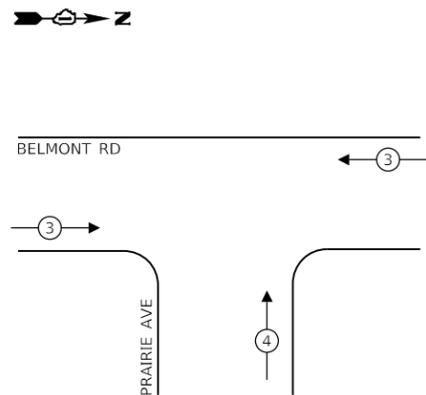
LEGEND:



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 4	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



BLANK OUT SIGN OPERATIONS

BLANK OUT SIGNS WILL ILLUMINATE WHEN EXCLUSIVE PEDESTRIAN PHASE 3 IS ACTIVE.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	2	25	5	3
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				724

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

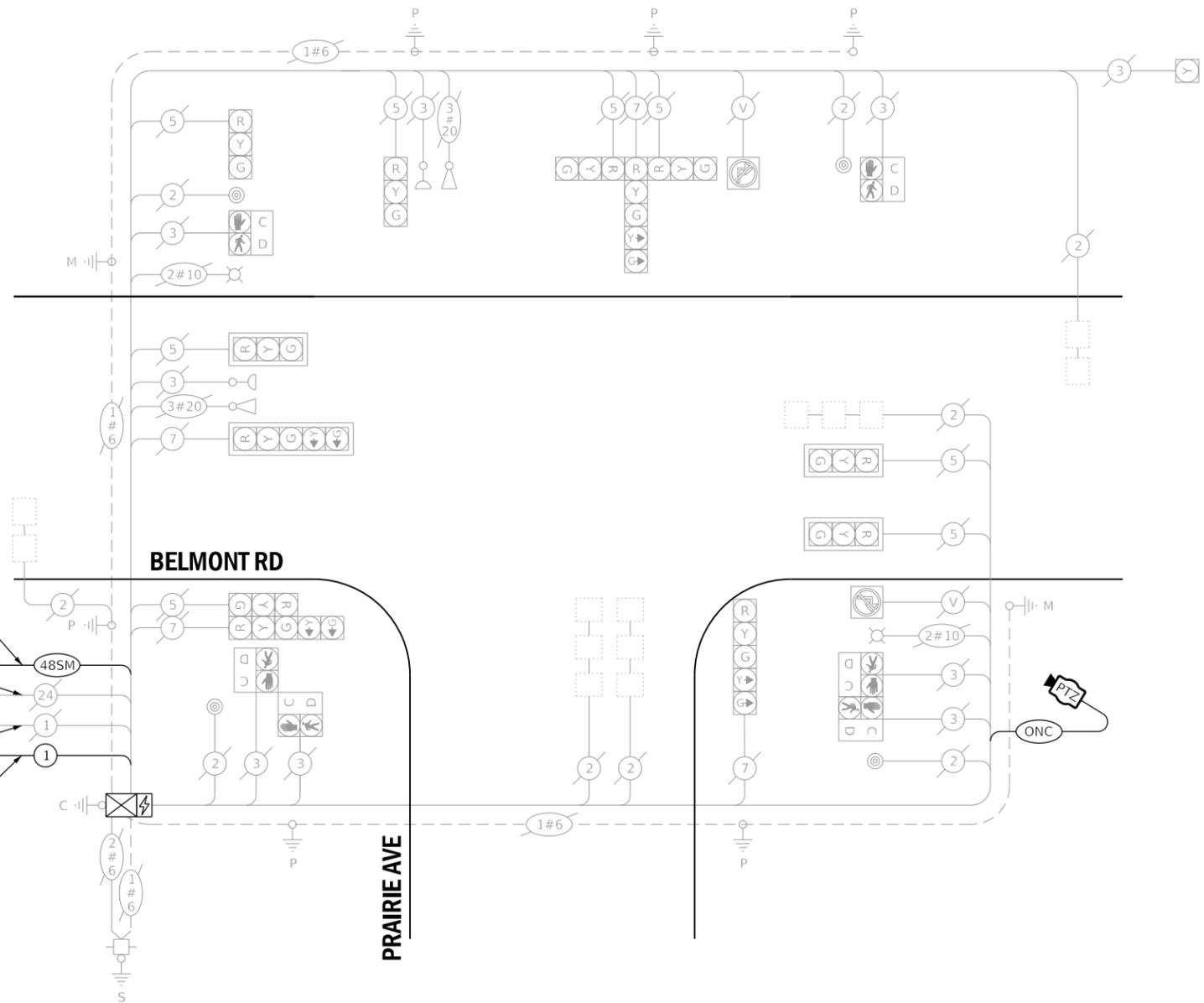
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
210	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

- PROP. INTERCONNECT TO HADDOW AVE (48SM)
- EX. INTERCONNECT TO HADDOW AVE (TO BE REMOVED) (24)
- EX. TRACER CABLE (TO BE REMOVED) (1)
- PROP. TRACER CABLE (1)



CABLE PLAN
(NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	61	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 "/>		
	PLOT DATE = 8/2/2021	CHECKED - DW	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

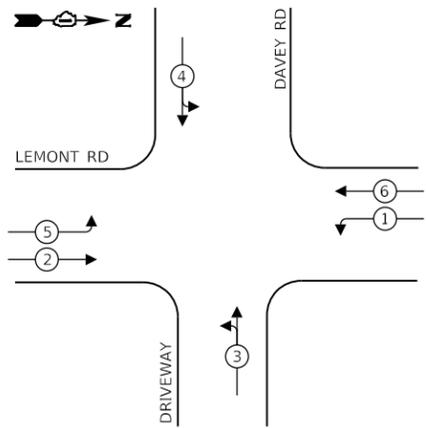
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
BELMONT RD AND PRAIRIE AVE

SCALE: SHEET 151 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	169
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

EXISTING CONTROLLER SEQUENCE



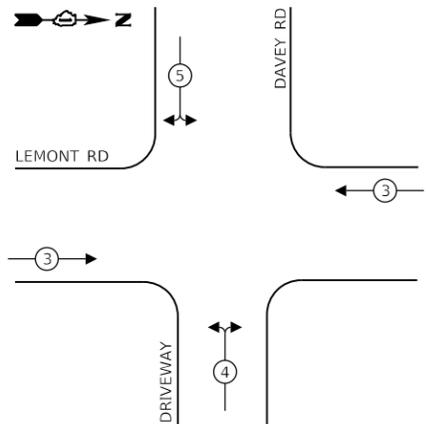
LEGEND:

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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING UPS AND INSTALL A NEW UPS IN EXISTING UPS CABINET.

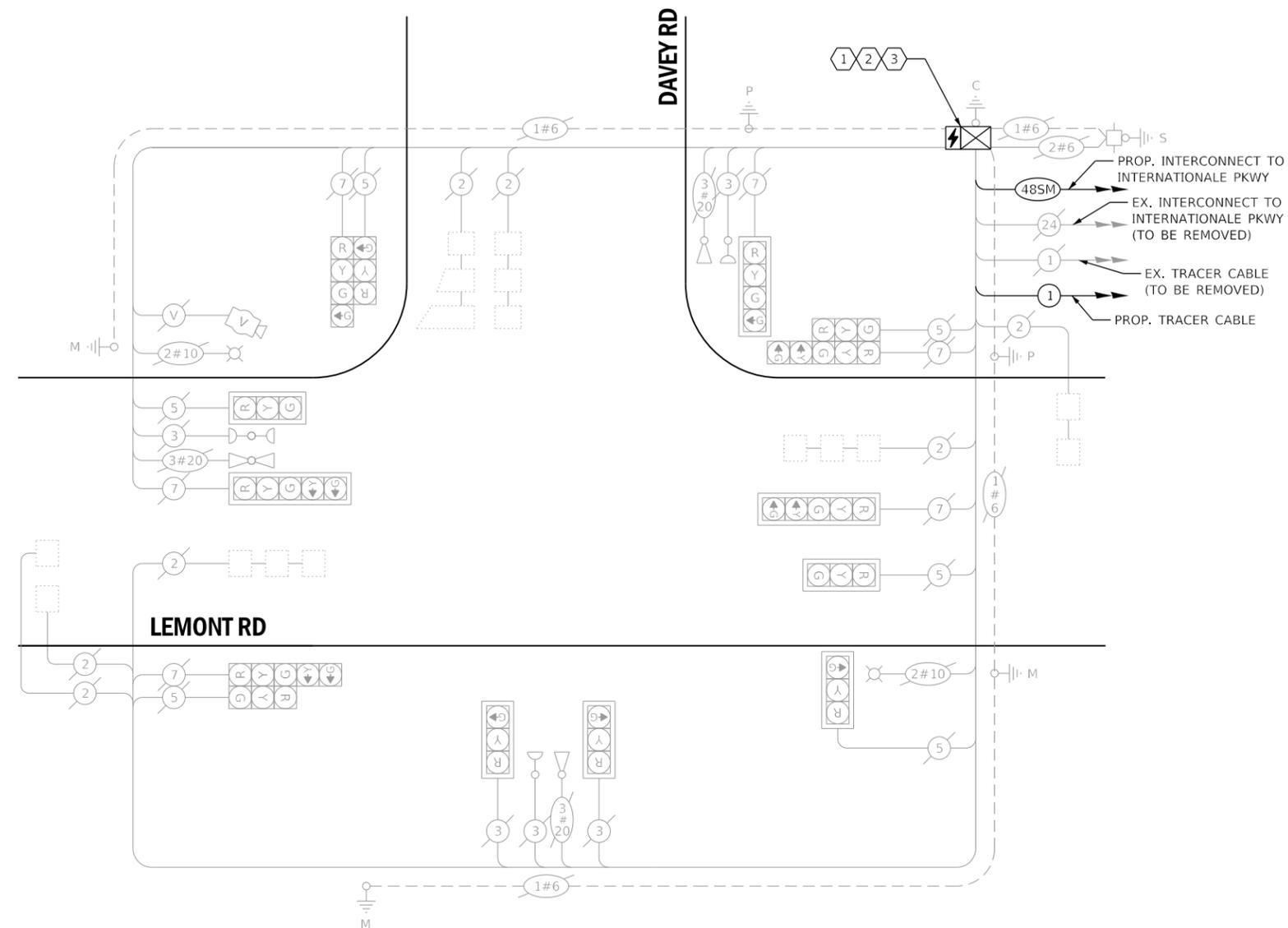
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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 UNINTERRUPTIBLE POWER SUPPLY



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	16	12	45	87
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	-	20	100	-
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 =				711

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. TIM COSLET
PHONE: (815)-724-5010
COMPANY: COMED JOLIET
ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
90	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

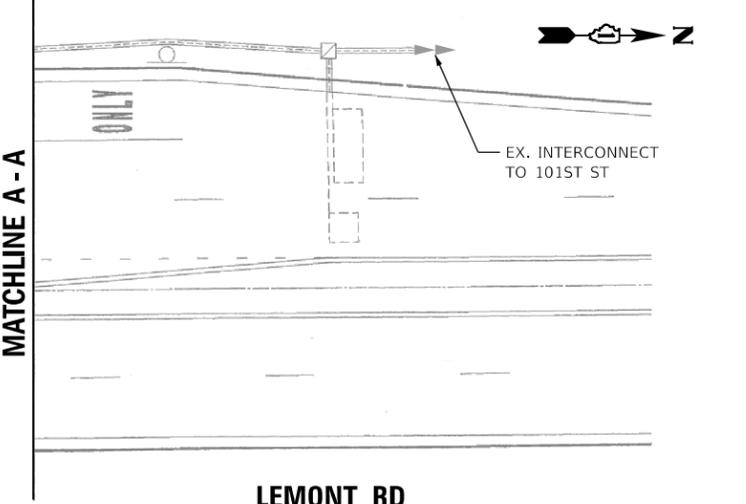
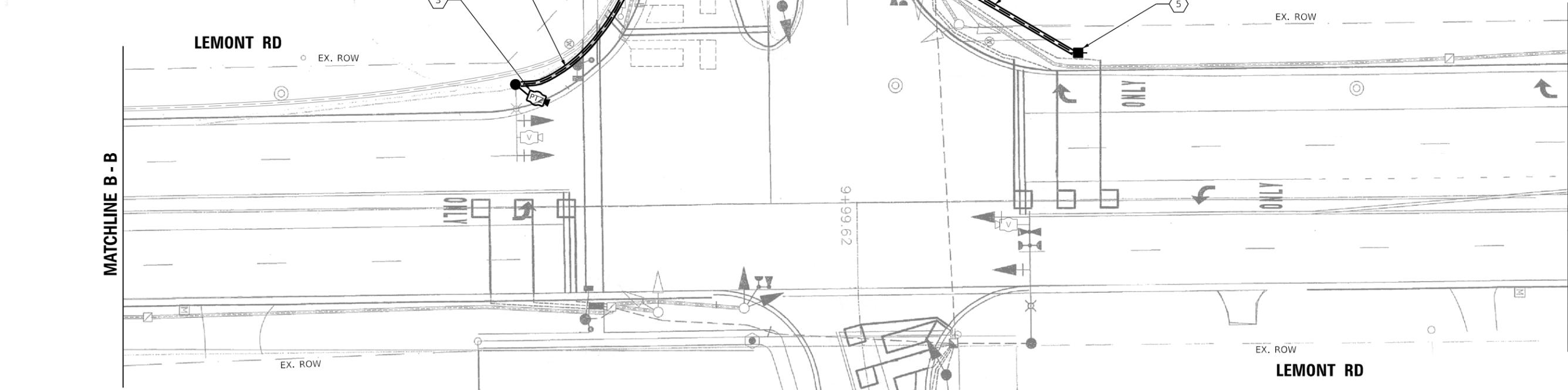
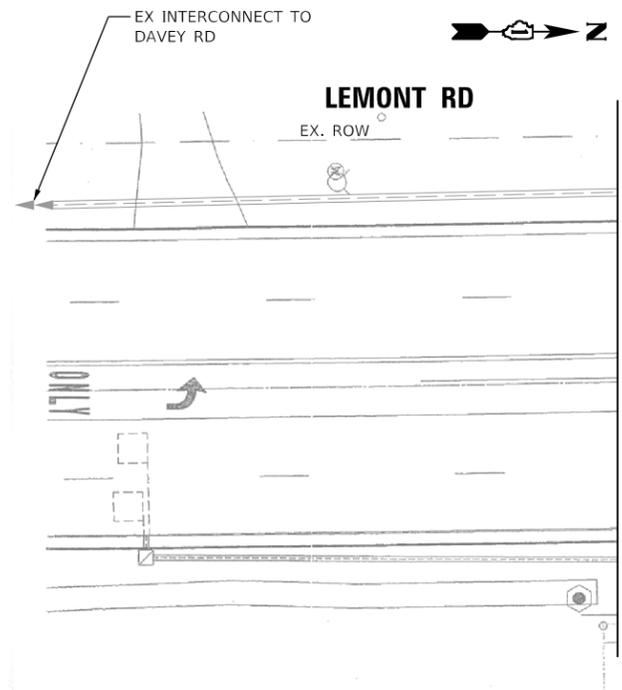
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
LEMONT RD AND DAVEY RD

SCALE: SHEET 152 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	170
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT



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/2-1000)
- 1 EACH SERVICE INSTALLATION

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE EXISTING CABINET.
- ③ THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- ⑤ THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- ⑥ THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- ⑦ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM IN EXISTING UPS CABINET.

EQUIPMENT IN THE TRAFFIC SIGNAL AND UPS CABINETS THAT ARE NON-ESSENTIAL TO THE OPERATION OF THE INTERSECTION ARE OWNED AND OPERATED BY OTHERS. THE CONTRACTOR IS NOT RESPONSIBLE FOR THE MAINTENANCE OF THIS EQUIPMENT. THIS EQUIPMENT SHOULD NOT BE ALTERED, MOVED, OR REMOVED WITHOUT THE APPROVAL OF THE OWNERS AND THE TRAFFIC ENGINEER.

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



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
92	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

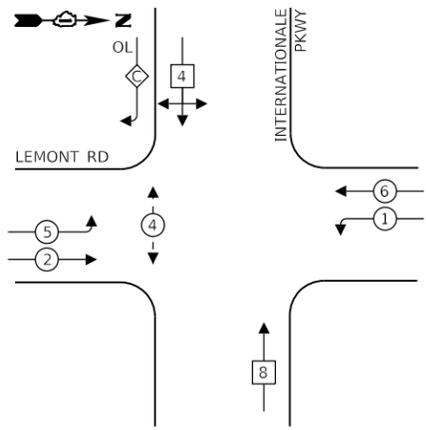
TRAFFIC SIGNAL MODERNIZATION PLAN
LEMONT RD AND INTERNATIONALE PKWY

SCALE: 1"=20' SHEET 153 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	171
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

EXISTING CONTROLLER SEQUENCE



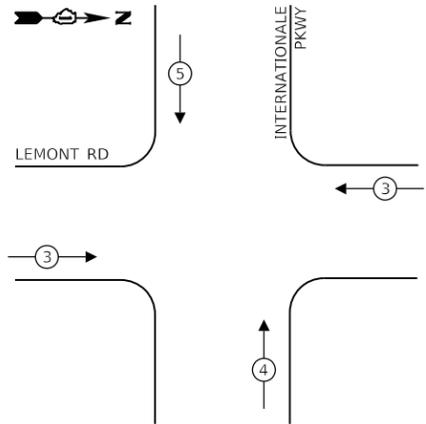
LEGEND:

- ◻* SINGLE ENTRY
- ◉* PROTECTED PHASE
- ◉* - PROTECTED/PERMITTED PHASE
- ◉*◁ PEDESTRIAN PHASE
- ◉* OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 4	+ 5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	83
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				831

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

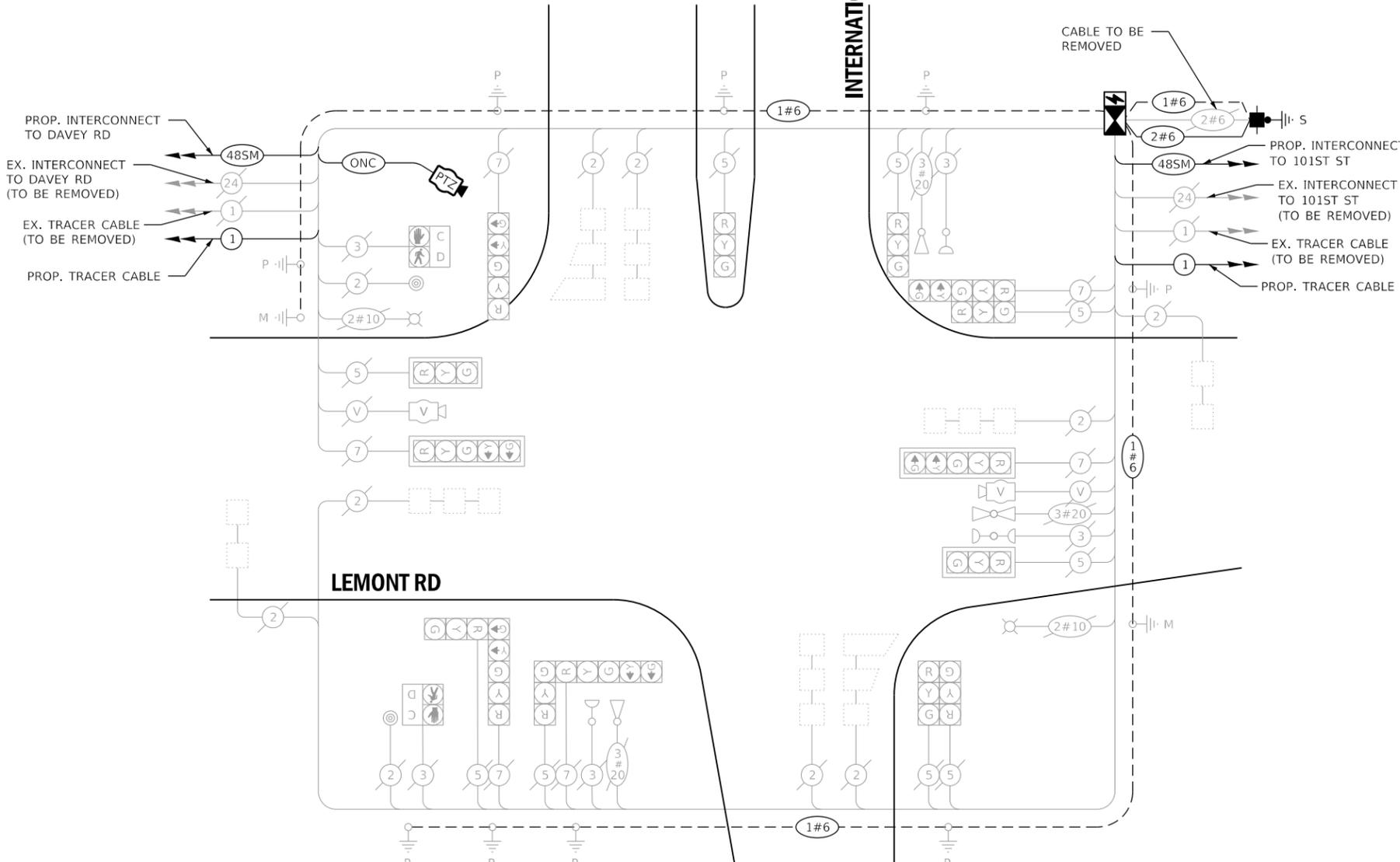
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. TIM COSLET
PHONE: (815)-724-5010
COMPANY: COMED JOLIET
ACCOUNT NUMBER: _____

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
80	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
58	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
58	FOOT	ROD AND CLEAN EXISTING CONDUIT
270	FOOT	OUTDOOR RATED NETWORK CABLE
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
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

CABLE PLAN
(NOT TO SCALE)



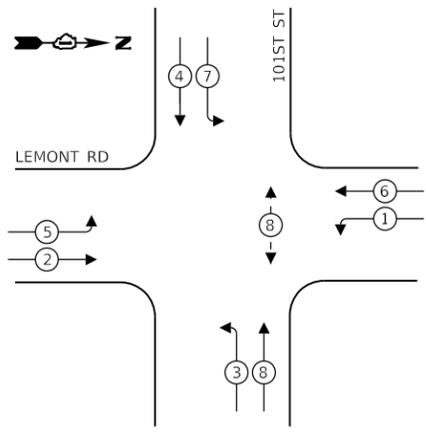
EQUIPMENT IN THE TRAFFIC SIGNAL AND UPS CABINETS THAT ARE NON-ESSENTIAL TO THE OPERATION OF THE INTERSECTION ARE OWNED AND OPERATED BY OTHERS. THE CONTRACTOR IS NOT RESPONSIBLE FOR THE MAINTENANCE OF THIS EQUIPMENT. THIS EQUIPMENT SHOULD NOT BE ALTERED, MOVED, OR REMOVED WITHOUT THE APPROVAL OF THE OWNERS AND THE TRAFFIC ENGINEER.

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

DUDOT

	USER NAME = zhoerbert DESIGNED - ZH DRAWN - RG CHECKED - DW DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES LEMONT RD AND INTERNATIONALE PKWY	F.A. RTE. _____ SECTION 19-DCCSS-03-TL COUNTY DUPAGE TOTAL SHEETS 307 SHEET NO. 172	CONTRACT NO. 61H22 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 40.0000' / in. PLOT DATE = 8/2/2021	SCALE: SHEET 154 OF 172 SHEETS STA. _____ TO STA. _____				

EXISTING CONTROLLER SEQUENCE



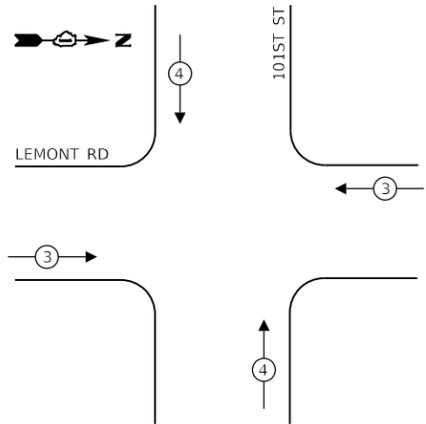
LEGEND:

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

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- ③ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ④ THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- ⑤ THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (175'-E-X").

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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/2-1000)
- 1 EACH SERVICE INSTALLATION

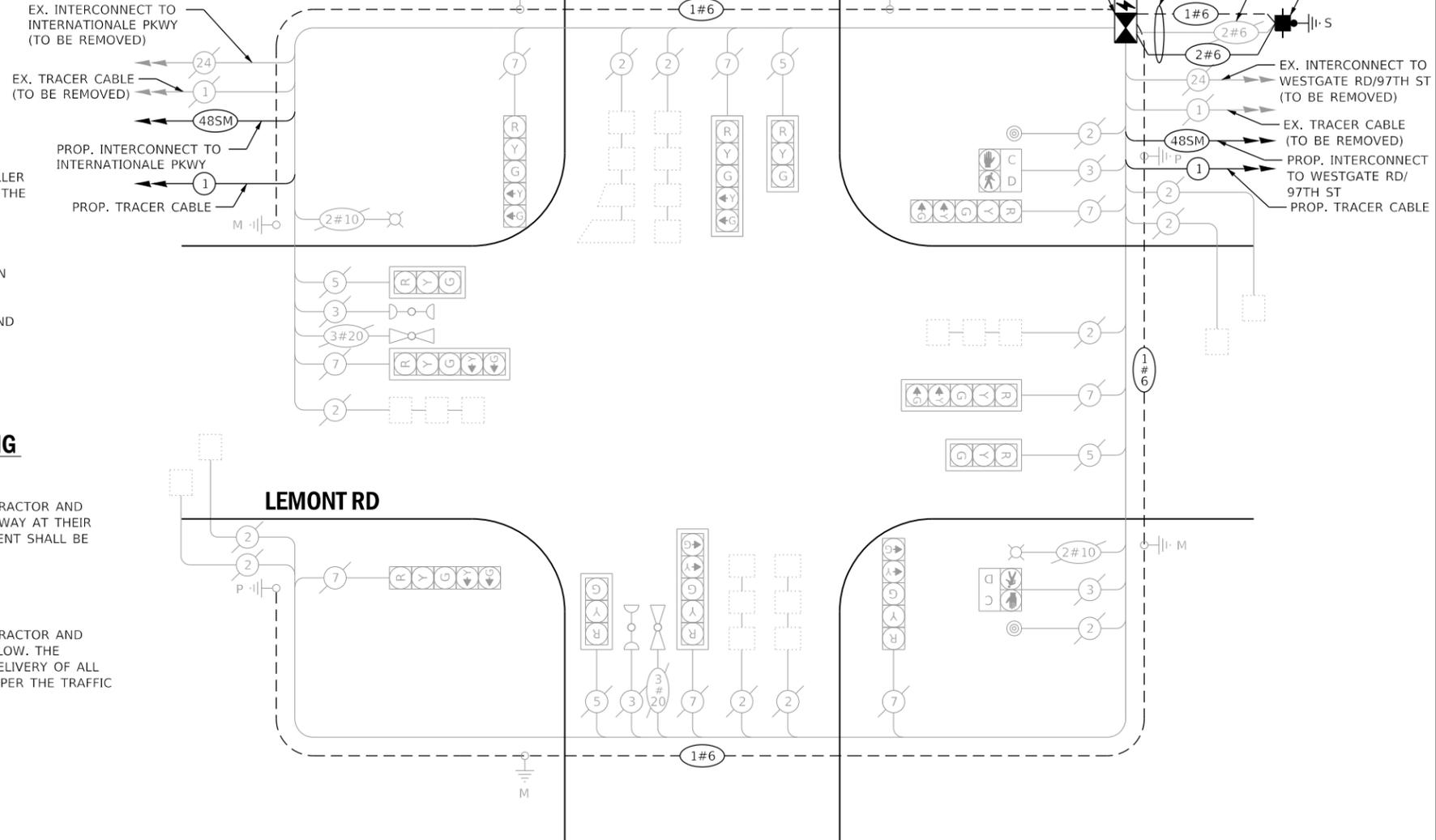
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH MODEM
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
195	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
175	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
175	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH



CABLE PLAN
(NOT TO SCALE)

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	16	10	10	16
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	-	75	100	-
TOTAL =				574

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. TIM COSLET
PHONE: (815)-724-5010
COMPANY: COMED JOLIET
ACCOUNT NUMBER:



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
88	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

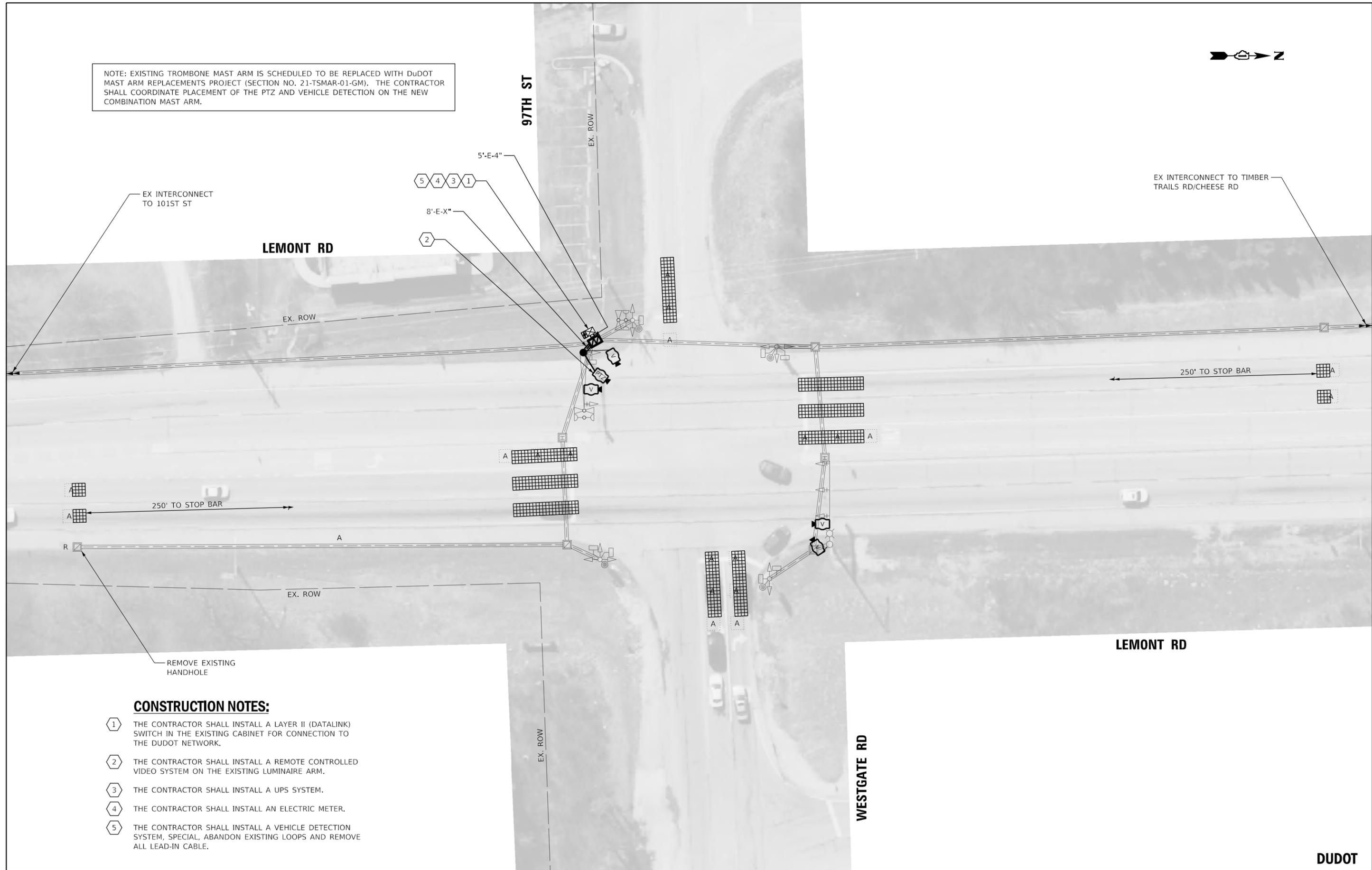
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
LEMONT RD AND 101ST ST**

SCALE: SHEET 155 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	173
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

NOTE: EXISTING TROMBONE MAST ARM IS SCHEDULED TO BE REPLACED WITH DuDOT MAST ARM REPLACEMENTS PROJECT (SECTION NO. 21-TSMAR-01-GM). THE CONTRACTOR SHALL COORDINATE PLACEMENT OF THE PTZ AND VEHICLE DETECTION ON THE NEW COMBINATION MAST ARM.



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 5 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.

REMOVE EXISTING HANDHOLE



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
94	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

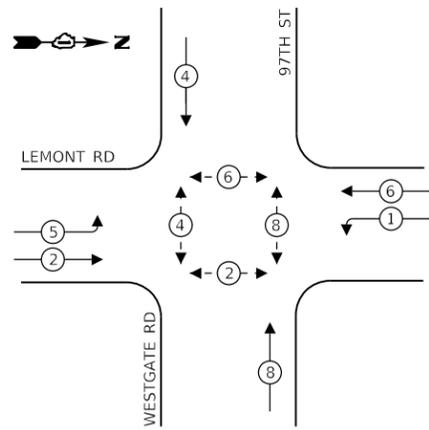
TRAFFIC SIGNAL MODERNIZATION PLAN
LEMONT RD AND WESTGATE RD/97TH ST

SCALE: 1"=20' SHEET 156 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	174
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H22	

DUDOT

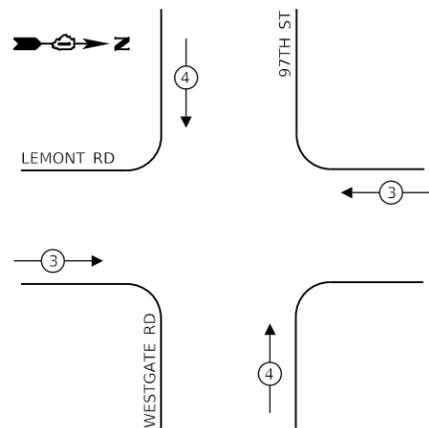
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	83
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	250	50	125
PTZ CAMERA	1	75	100	75
TOTAL =				830

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. TIM COSLET
PHONE: (815)-724-5010
COMPANY: COMED JOLIET
ACCOUNT NUMBER: _____

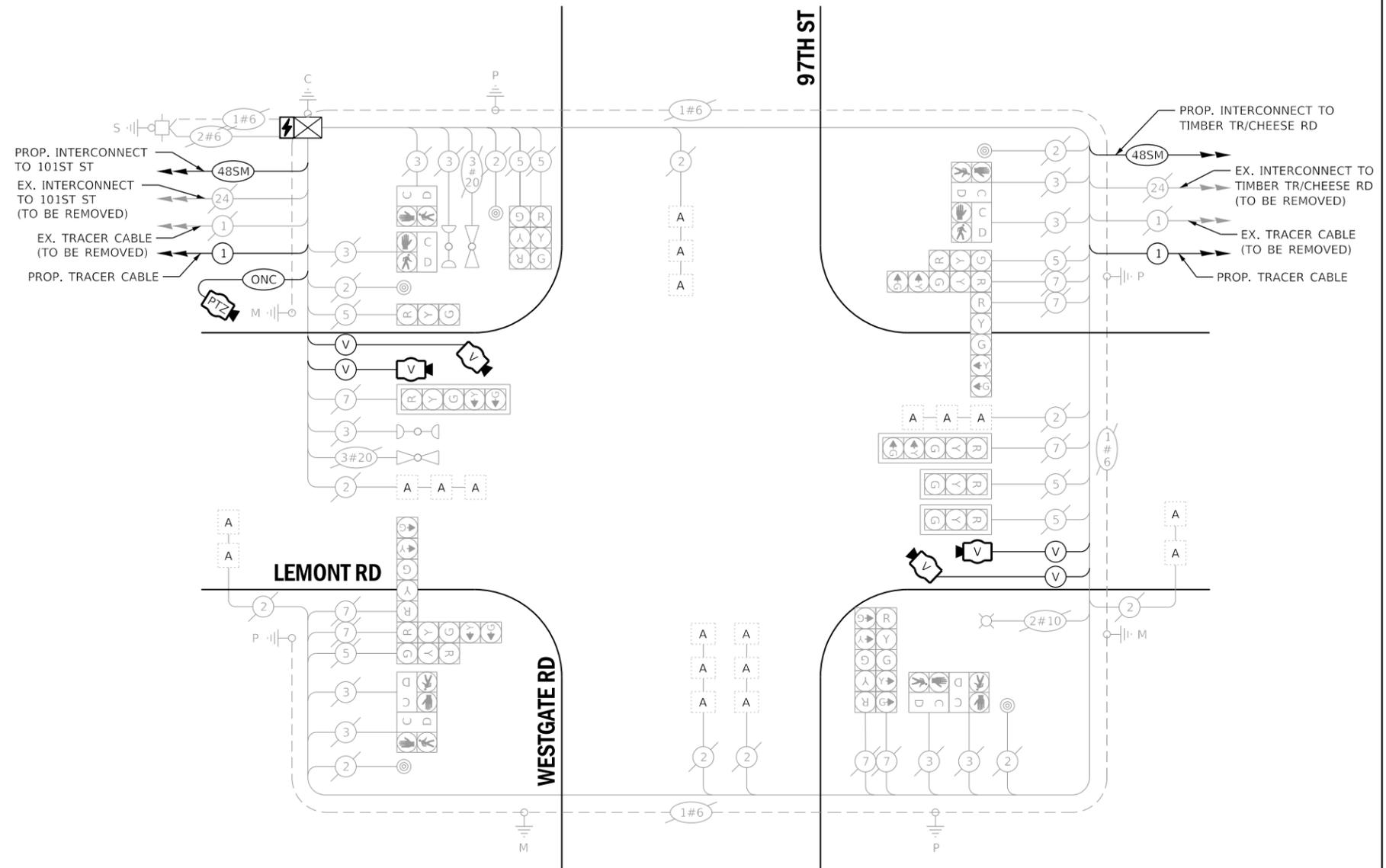
TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
750	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING HANDHOLE
100	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTIBLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING HANDHOLE
OUTDOOR RATED NETWORK CABLE
UNINTERRUPTIBLE POWER SUPPLY AND CABINET, SPECIAL
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
ELECTRIC METER
VEHICLE DETECTION SYSTEM, SPECIAL

CABLE PLAN

(NOT TO SCALE)

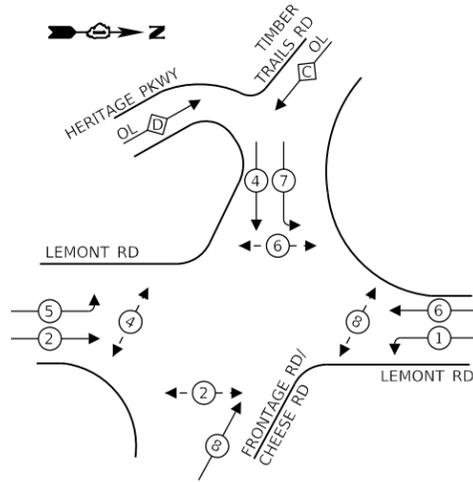


NOTE: EXISTING TROMBONE MAST ARM IS SCHEDULED TO BE REPLACED WITH DuDOT MAST ARM REPLACEMENTS PROJECT (SECTION NO. 21-TSMAR-01-GM). THE CONTRACTOR SHALL COORDINATE PLACEMENT OF THE PTZ AND VEHICLE DETECTION ON THE NEW COMBINATION MAST ARM.

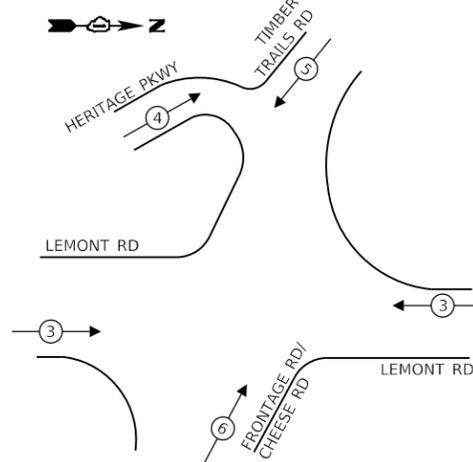
DUDOT

	USER NAME = zhoerbert DESIGNED - ZH DRAWN - RG CHECKED - DW DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES LEMONT RD AND WESTGATE RD/97TH ST	F.A. RTE. _____ SECTION _____ COUNTY _____ TOTAL SHEETS _____ SHEET NO. _____
	PLOT SCALE = 40,0000 ' / in. PLOT DATE = 8/2/2021	SCALE: _____ SHEET 157 OF 172 SHEETS STA. _____ TO STA. _____			VAR. 19-DCC55-03-TL DUPAGE 307 175 CONTRACT NO. 61H22 ILLINOIS FED. AID PROJECT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 3 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (22'-E-X*).

OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 7	+
D	= 8	+

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	11	50	105
(YELLOW)	19	20	5	19
(GREEN)	21	12	45	114
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	2	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	-	75	100	-
TOTAL =				1038

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

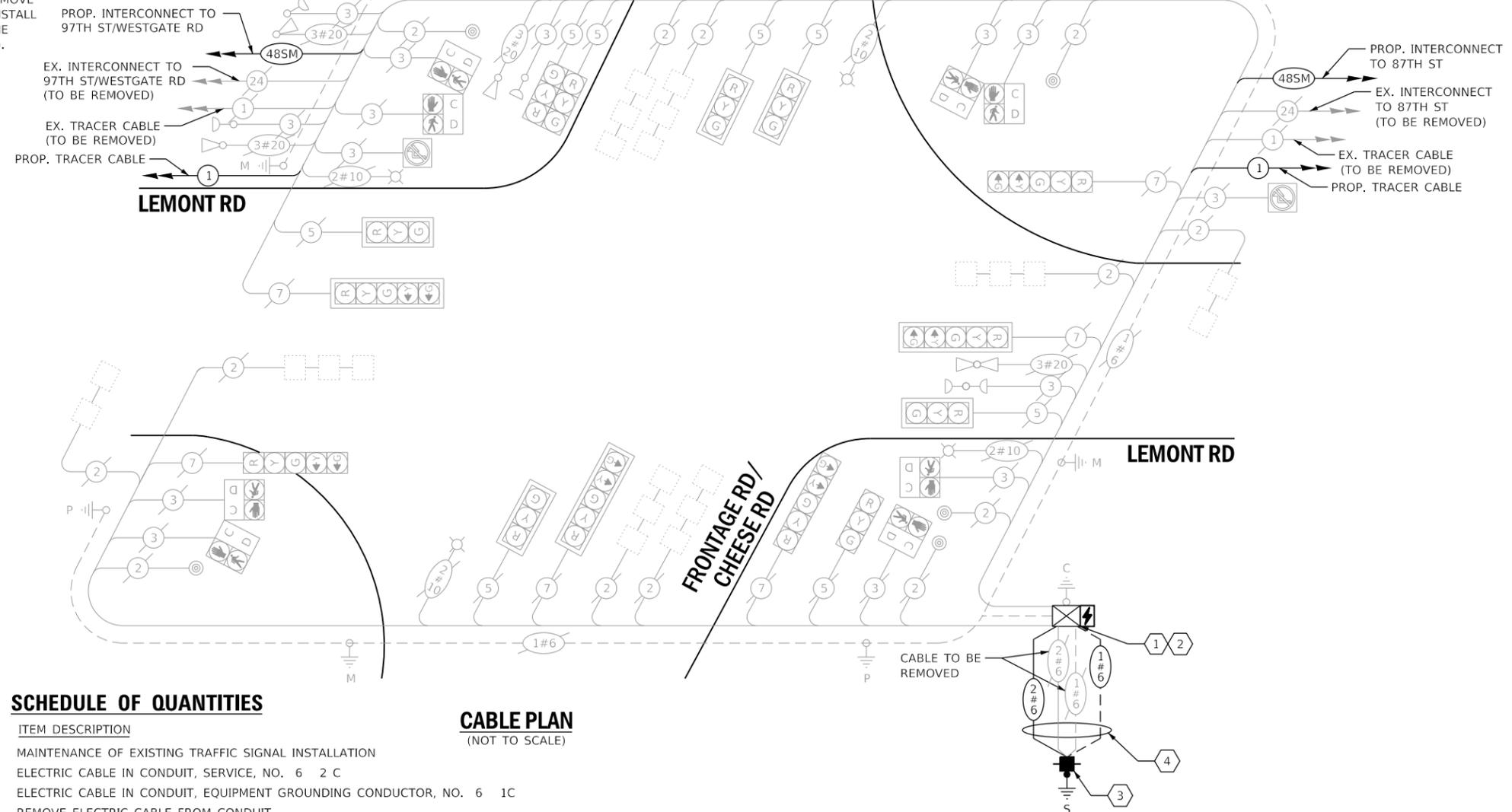
ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS
1	EACH
40	FOOT
40	FOOT
44	FOOT
1	EACH
22	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ROD AND CLEAN EXISTING CONDUIT
SERVICE INSTALLATION (SPECIAL)
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
LAYER II (DATALINK) SWITCH

CABLE PLAN (NOT TO SCALE)



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 SERVICE INSTALLATION



USER NAME = zhoerbert
DESIGNED - ZH
DRAWN - RG
PLOT SCALE = 40,0000 ' / in.
CHECKED - DW
PLOT DATE = 8/2/2021
DATE -

REVISIONS:
REVISOR -
REVISION -
REVISOR -
REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
LEMONT RD AND FRONTAGE RD/CHEESE RD AND TIMBER TRAILS RD

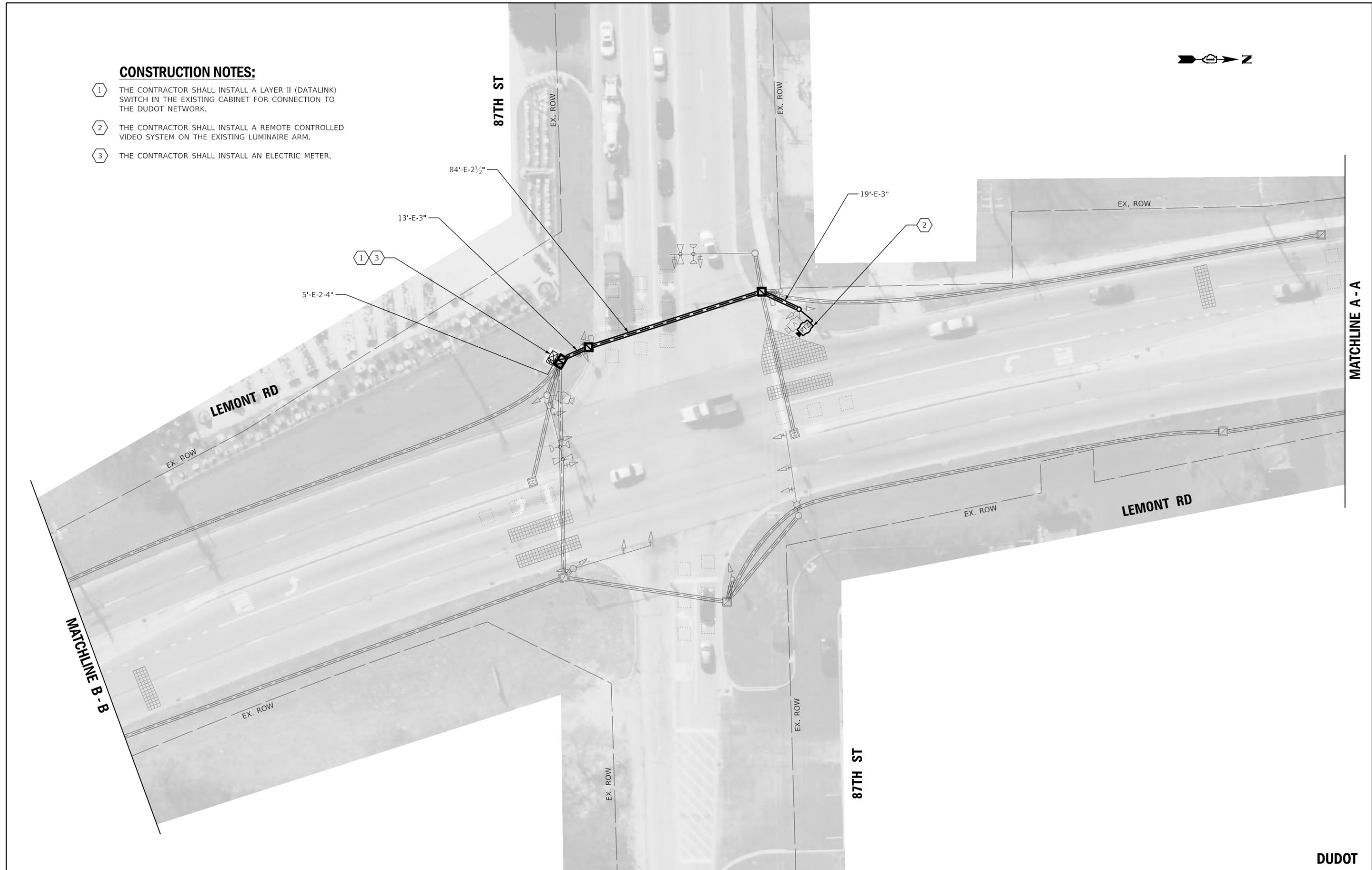
SCALE: SHEET 158 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	176
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.



DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN LEMONT RD AND 87TH ST - (SHEET 1 OF 2)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	89	DRAWN - RG	REVISED -		VAR.	19-DCCSS-03-TL	DUPAGE	307	177				
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -			SCALE: 1"=20'		SHEET 159	OF 172	SHEETS	STA.	TO STA.	CONTRACT NO. 61H22	
PLOT DATE = 8/2/2021	DATE -	REVISED -									ILLINOIS FED. AID PROJECT		

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-lemont-ts-plan.dgn
Int89



LEMONT RD

MATCHLINE A - A



EX. ROW

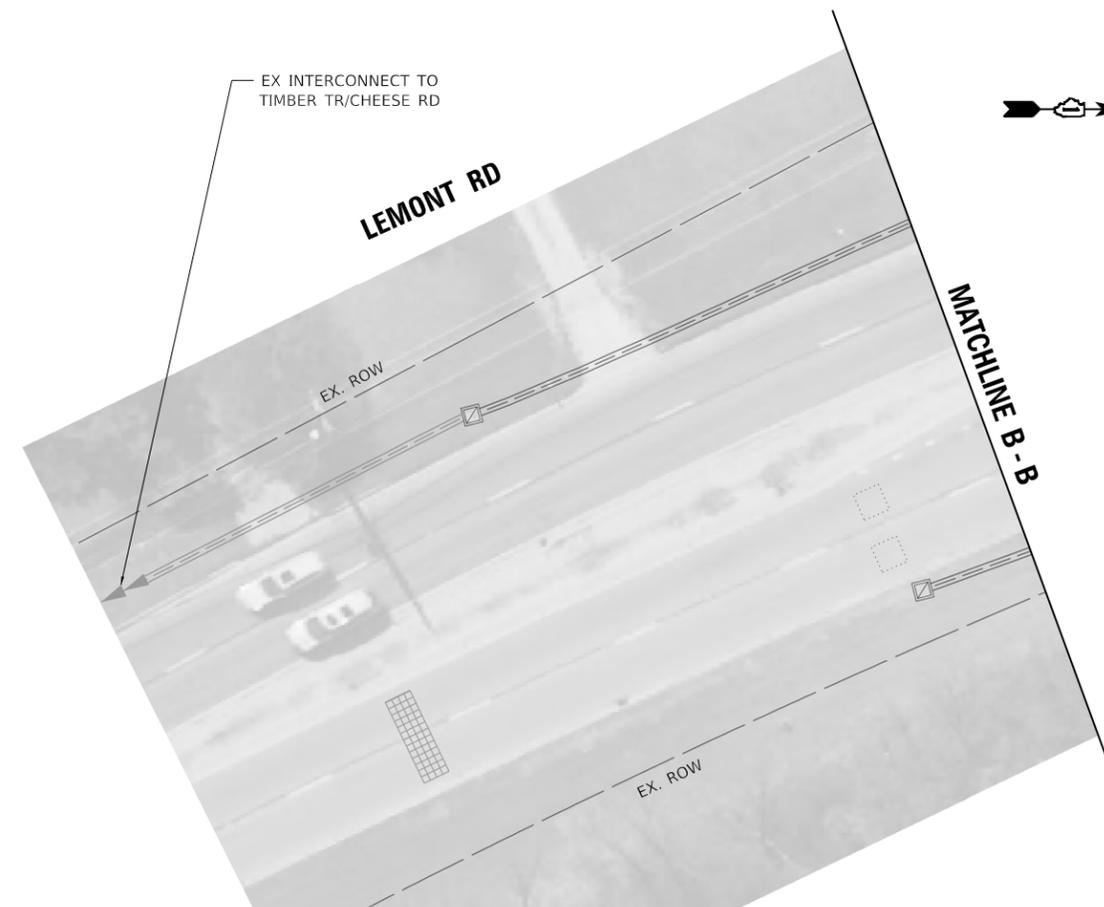
EX. ROW

EX. ROW

EX INTERCONNECT TO 83RD ST

EX INTERCONNECT TO TIMBER TR/CHEESE RD

LEMONT RD



EX. ROW

EX. ROW

MATCHLINE B - B



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
89	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

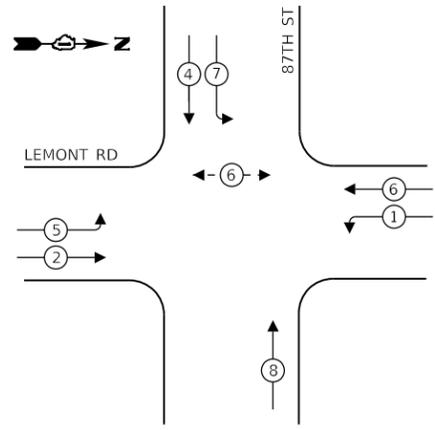
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN LEMONT RD AND 87TH ST - (SHEET 2 OF 2)

SCALE: 1"=20' SHEET 160 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	178
ILLINOIS			CONTRACT NO. 61H22	
ILLINOIS			FED. AID PROJECT	

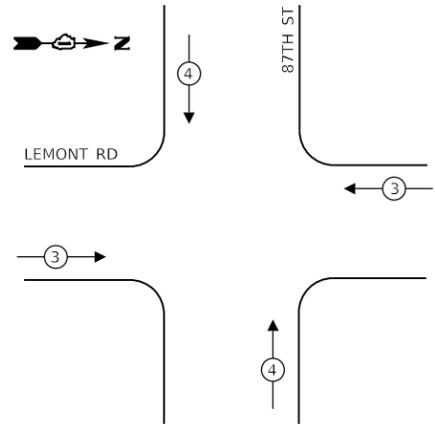
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	11	50	105
(YELLOW)	19	20	5	19
(GREEN)	19	12	45	103
PERMISSIVE ARROW	14	10	10	14
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				881

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

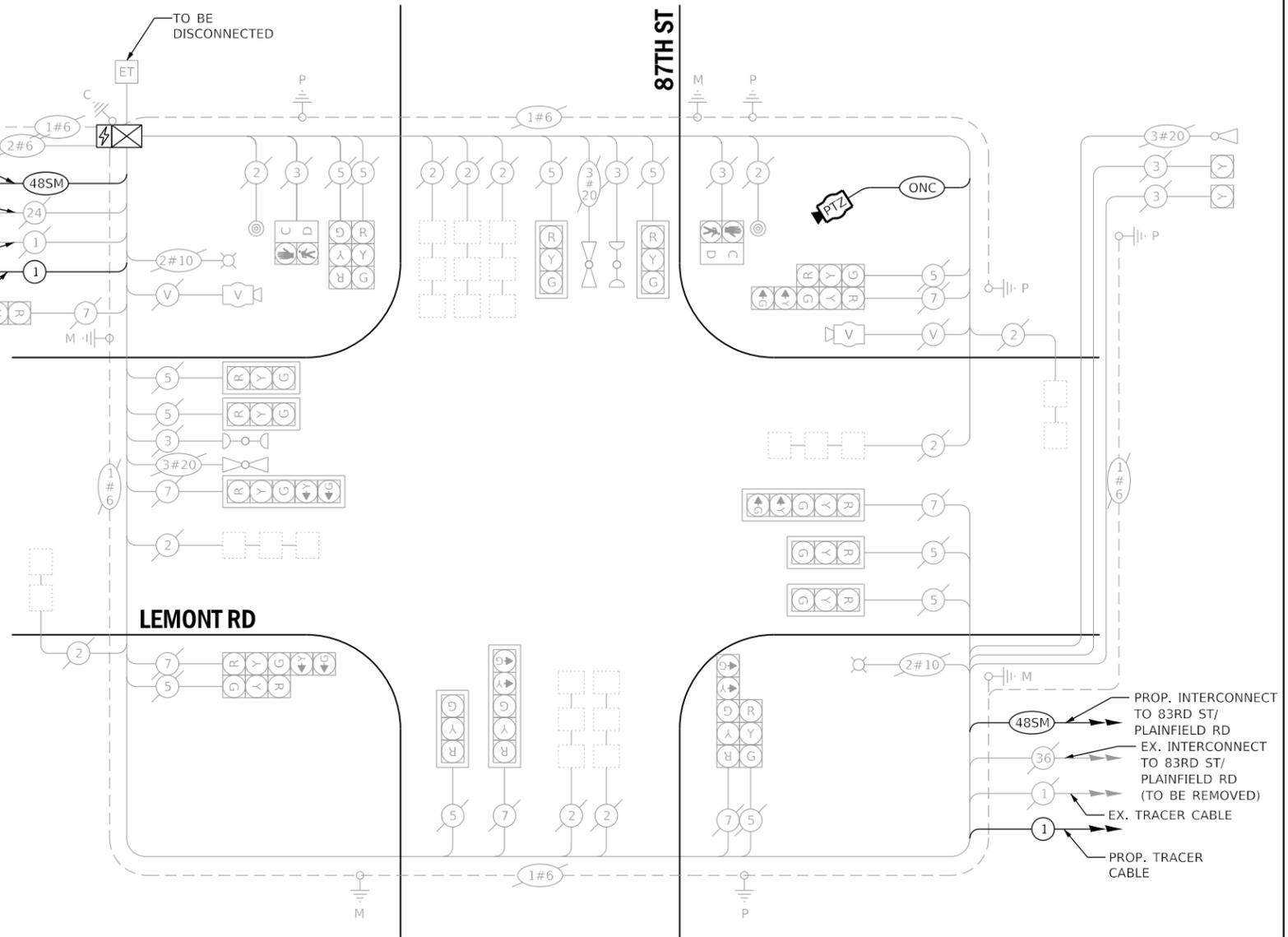
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1439	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
220	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

**CABLE PLAN
(NOT TO SCALE)**

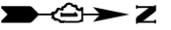


**ADVANCE WARNING FLASHING BEACON
OPERATION NOTE:**

THE ADVANCE WARNING FLASHING BEACON OPERATION SHALL COMMENCE AT THE START OF THE PHASE 6 YELLOW AND SHALL CONTINUE TO FLASH DURING THE PHASE 6 YELLOW AND RED INTERVALS. THE ADVANCE WARNING FLASHER SHALL TURN OFF AT THE START OF THE PHASE 6 GREEN.

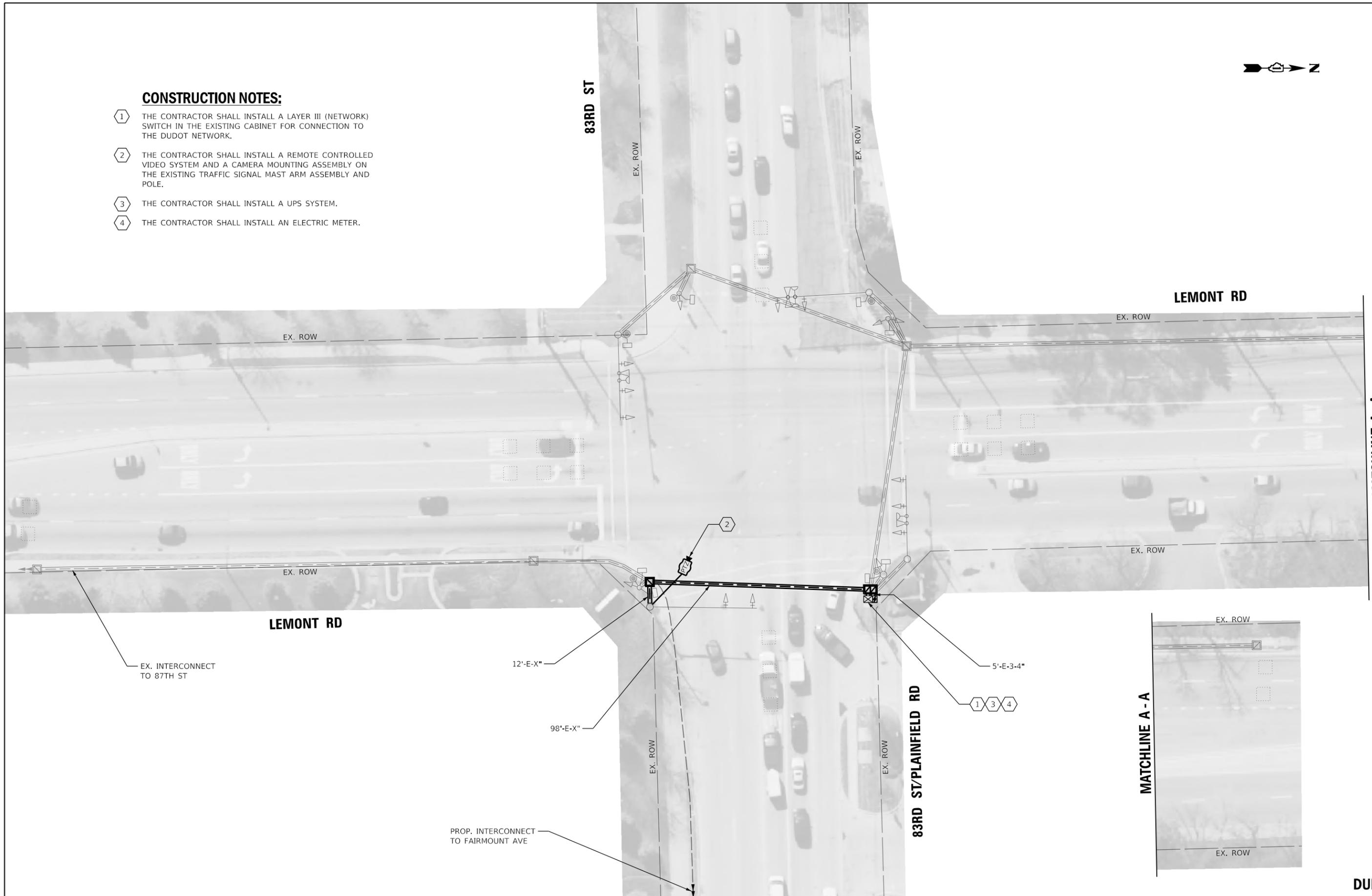
DUDOT

	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -	<p style="text-align: center;">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p style="text-align: center;">CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES LEMONT RD AND 87TH ST</p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	89	DRAWN - RG	REVISED -			VAR.	19-DCCSS-03-TL	DUPAGE	307	179
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -					CONTRACT NO. 61H22		
	PLOT DATE = 8/2/2021	DATE -	REVISED -					ILLINOIS FED. AID PROJECT		



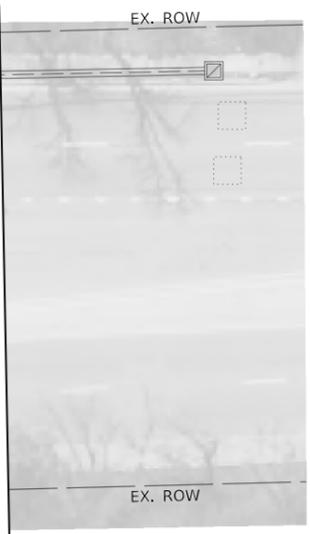
CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM AND A CAMERA MOUNTING ASSEMBLY ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- ③ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.



MATCHLINE A - A

MATCHLINE A - A



DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -
	93	DRAWN - RG	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

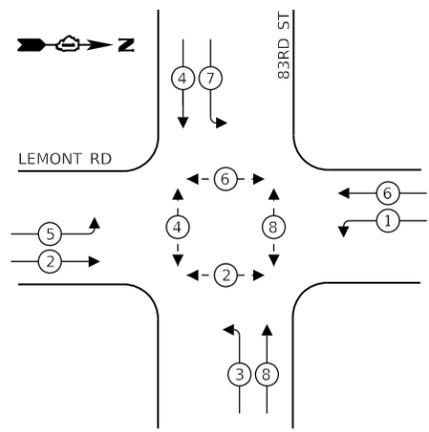
**TRAFFIC SIGNAL MODERNIZATION PLAN
LEMONT RD AND 83RD ST/PLAINFIELD RD**

SCALE: 1"=20' SHEET 162 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	180
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

FILE NAME = X:\Projects\IGLI\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-lemont-ts-plan.dgn
Int93

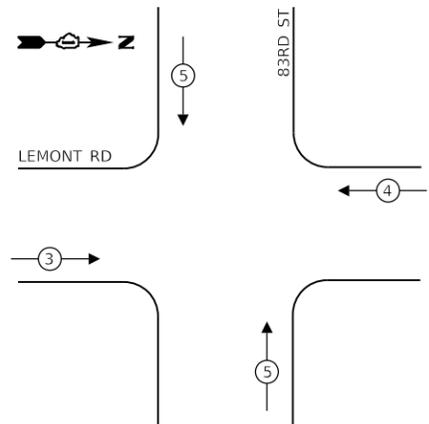
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
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	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				559

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

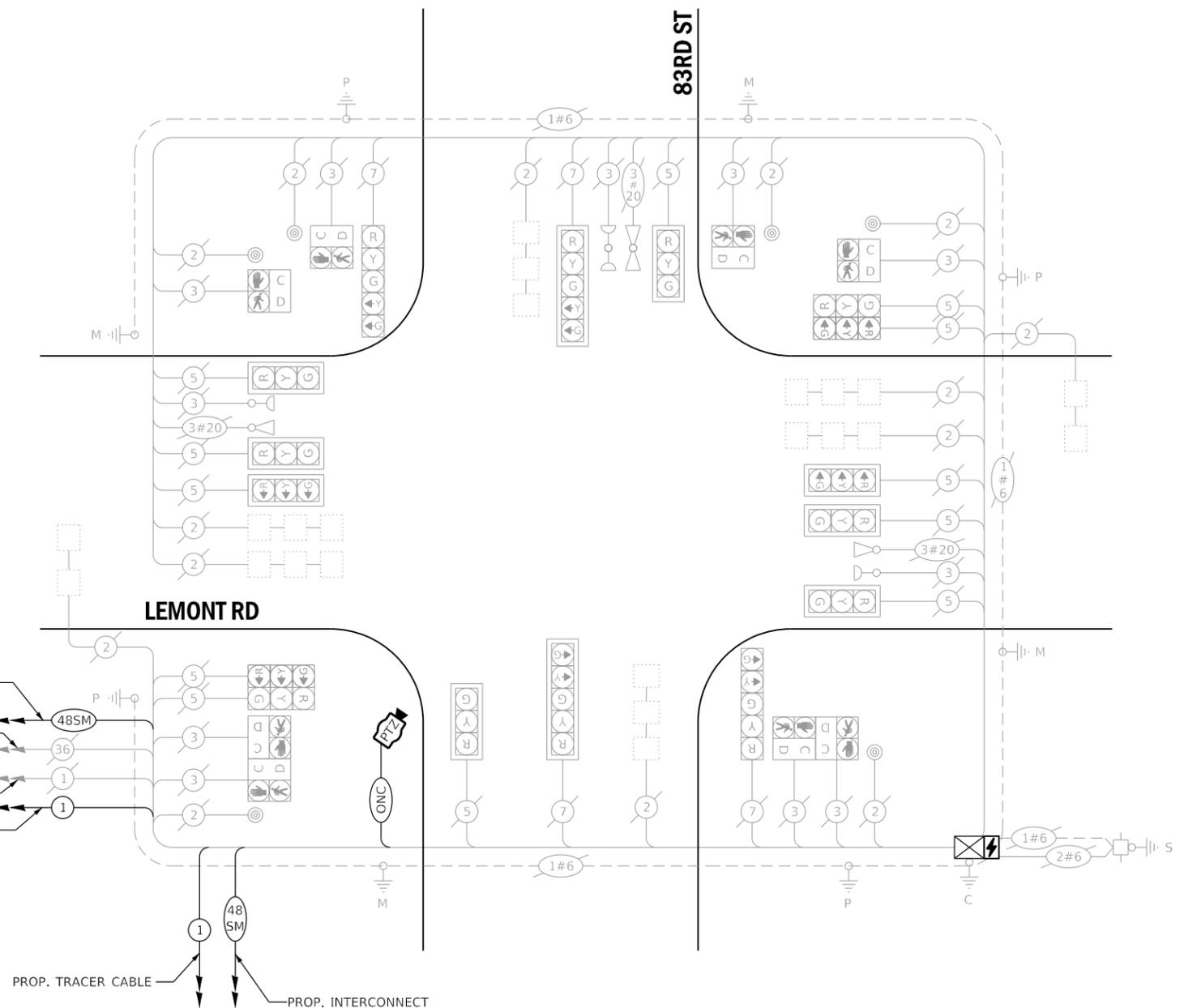
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
190	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	UNINTERRUPTIBLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	CAMERA MOUNTING ASSEMBLY

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
190	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	UNINTERRUPTIBLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	CAMERA MOUNTING ASSEMBLY



**CABLE PLAN
(NOT TO SCALE)**

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	93	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

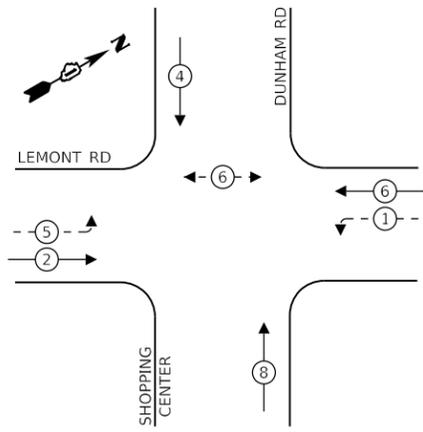
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
LEMONT RD AND 83RD ST**

SCALE: SHEET 163 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCC55-03-TL	DUPAGE	307	181
			CONTRACT NO.	61H22
ILLINOIS FED. AID PROJECT				

DUDOT

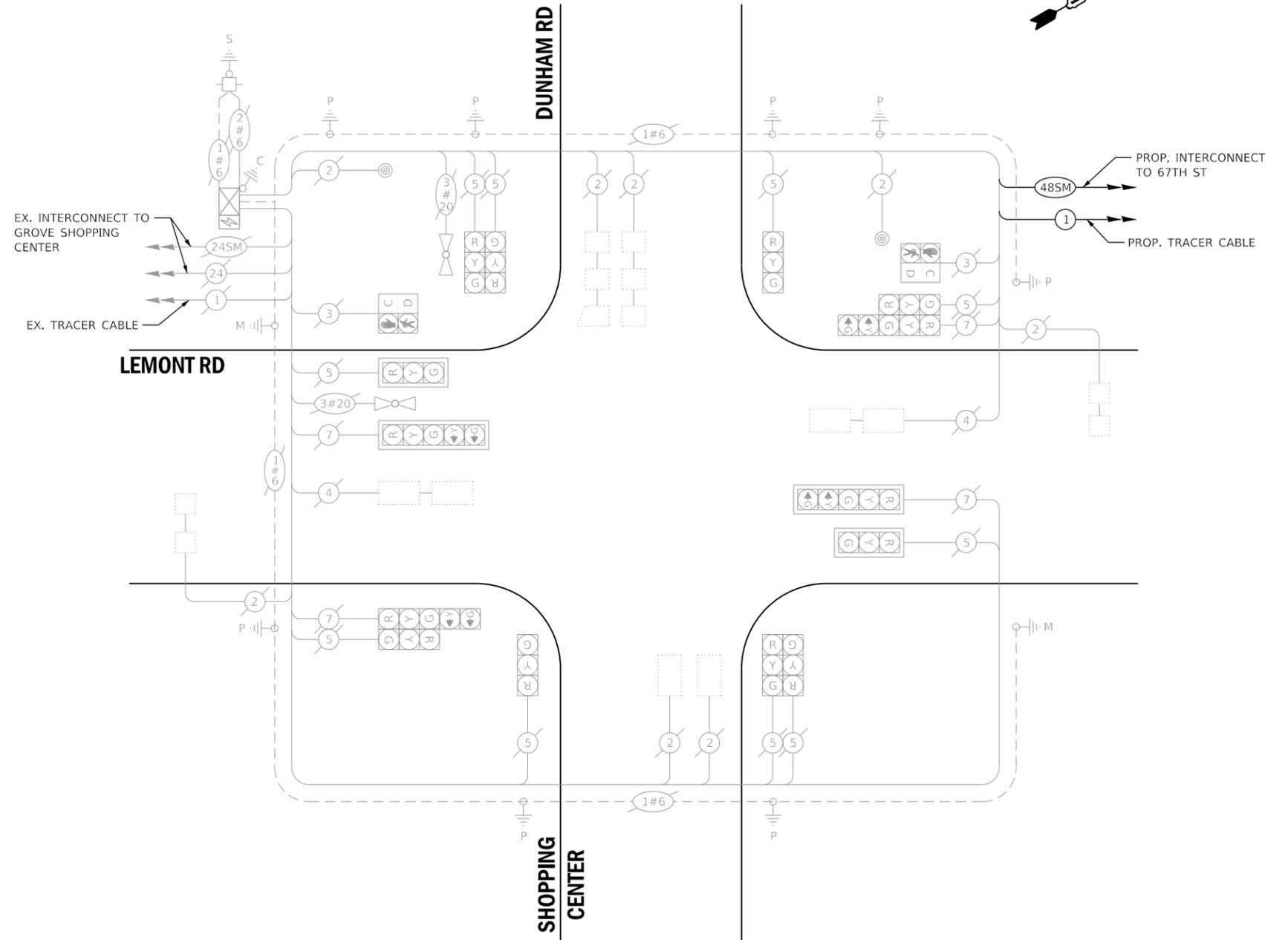
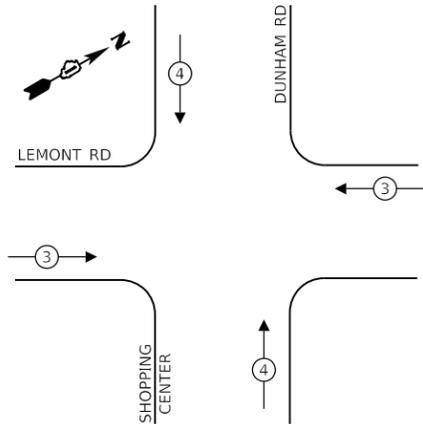
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL 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	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	-	-	-	-
PTZ CAMERA	-	75	100	-
TOTAL =				340

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 QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

SCHEDULE OF QUANTITIES

USER NAME	DESIGNED	REVISED
= zhoerbert	- ZH	-
95	- RG	-
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

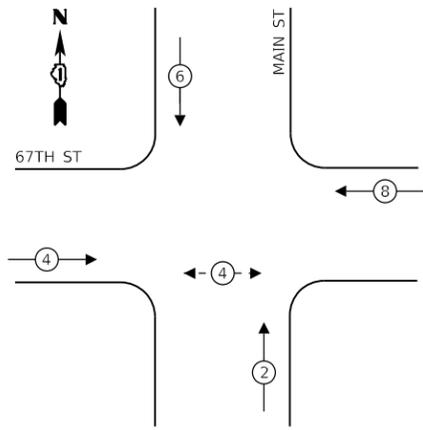
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
LEMONT RD AND DUNHAM RD /SHOPPING CENTER

SCALE: SHEET 164 OF 172 SHEETS STA. TO STA.

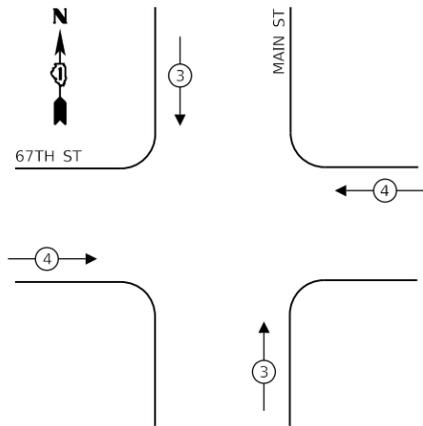
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	182
				CONTRACT NO. 61H22

DUDOT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- ④ THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (85'-E-X").

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 SERVICE INSTALLATION

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	-	10	10	-
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	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				308

ENERGY COSTS TO:

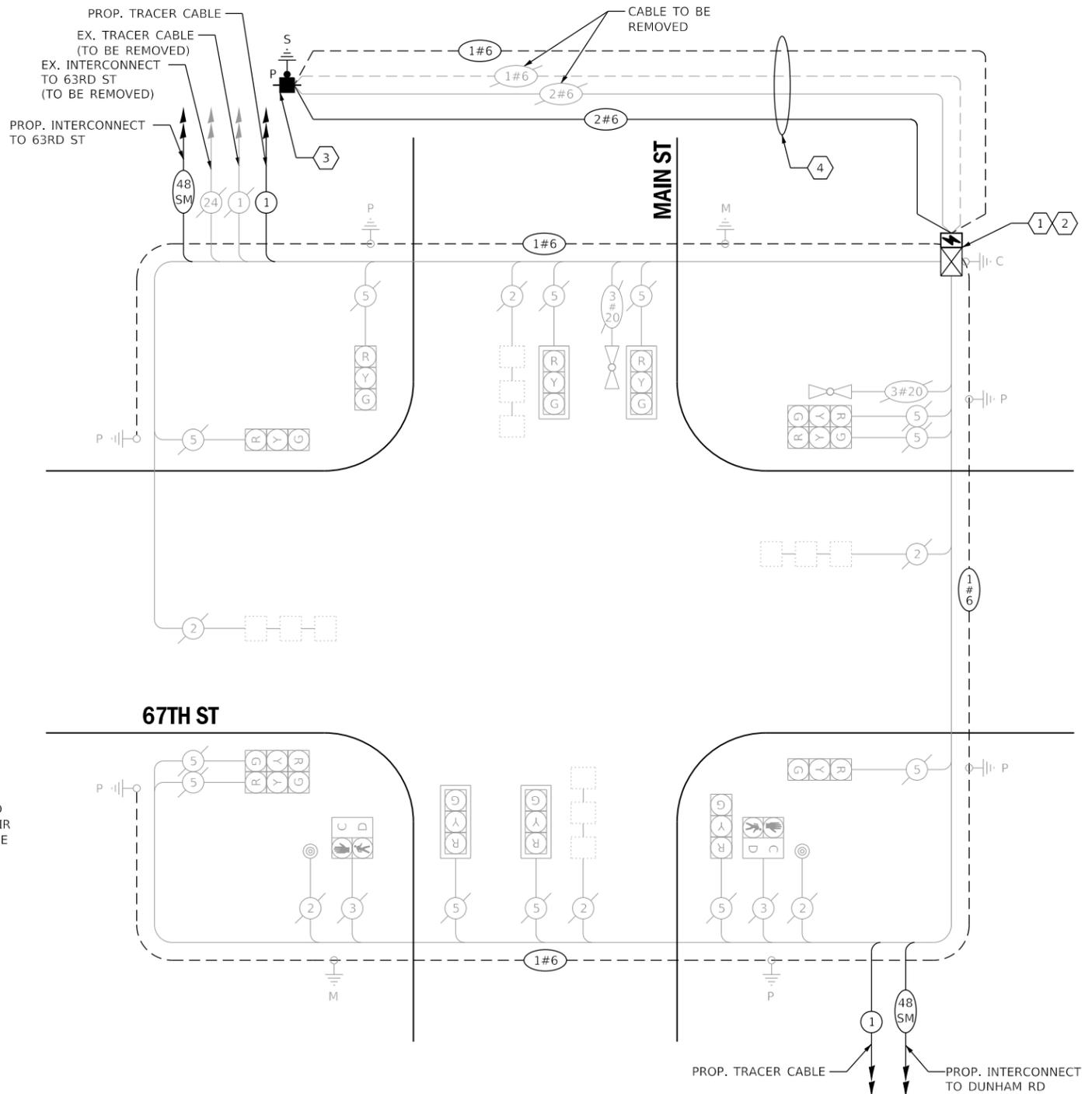
DUPAGE COUNTY D.O.T.

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 QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
105	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
170	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
85	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	97	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAIN ST AND 67TH ST

SCALE: SHEET 165 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	183
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

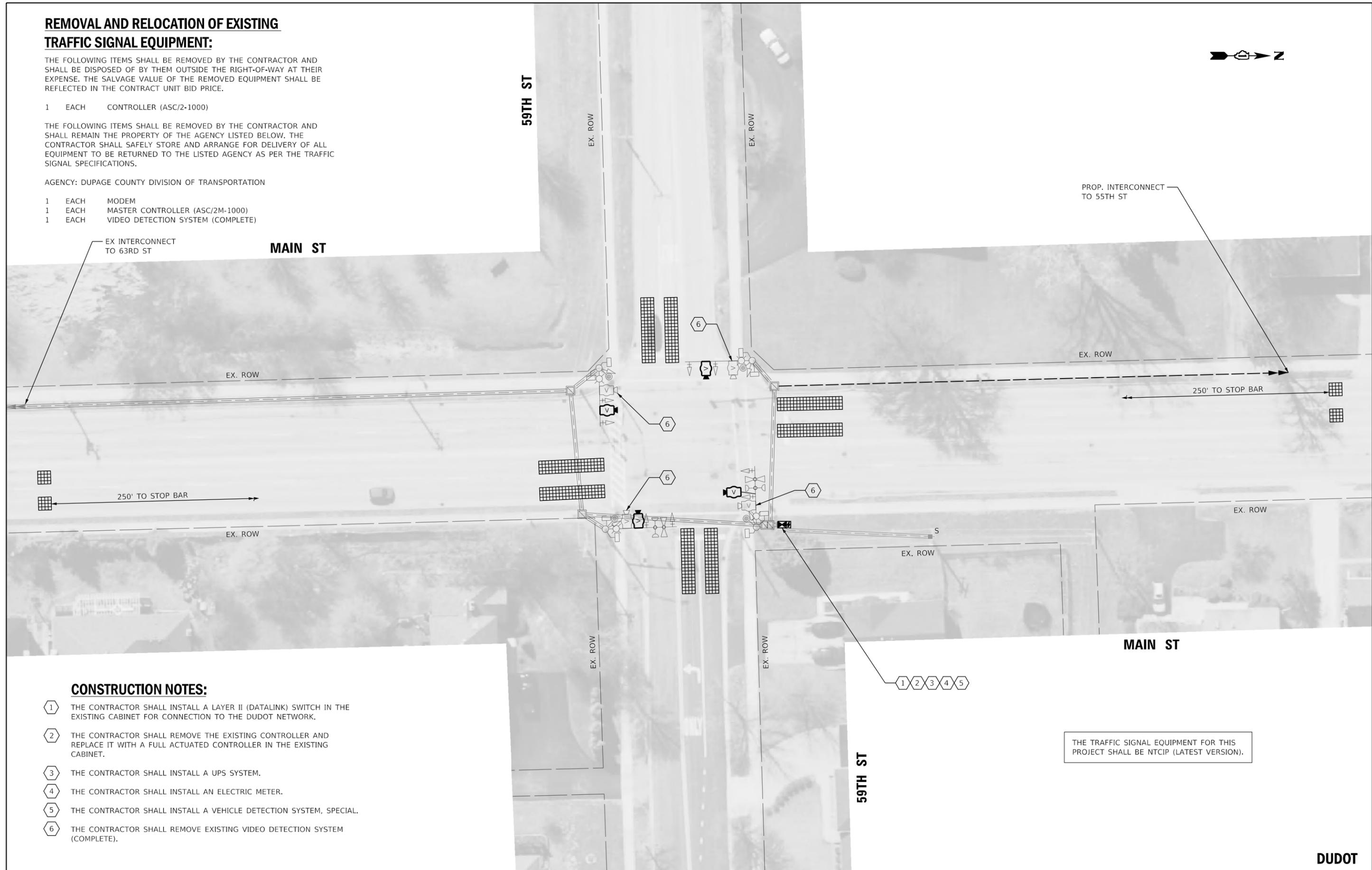
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/2-1000)

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

- 1 EACH MODEM
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)
- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE)



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 5 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL.
- 6 THE CONTRACTOR SHALL REMOVE EXISTING VIDEO DETECTION SYSTEM (COMPLETE).

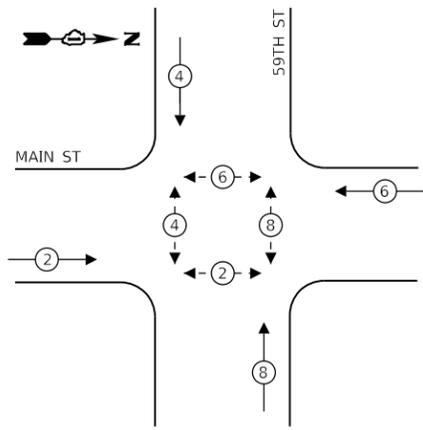
THE TRAFFIC SIGNAL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN MAIN ST AND 95TH ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	96	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	184
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=20'	SHEET 166	OF 172 SHEETS	STA.	TO STA.	CONTRACT NO. 61H22		
	PLOT DATE = 8/2/2021	DATE -	REVISED -							ILLINOIS FED. AID PROJECT		

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-lemont-ts-plan.dgn
Int96

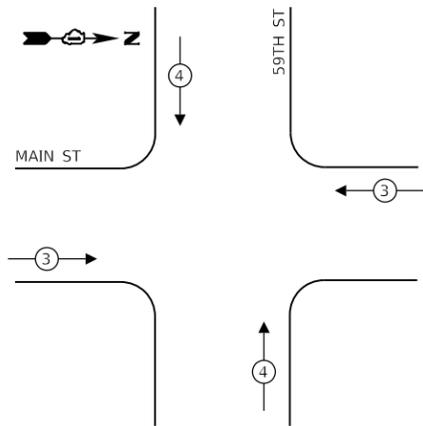
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	-	75	100	-
TOTAL =				1078

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

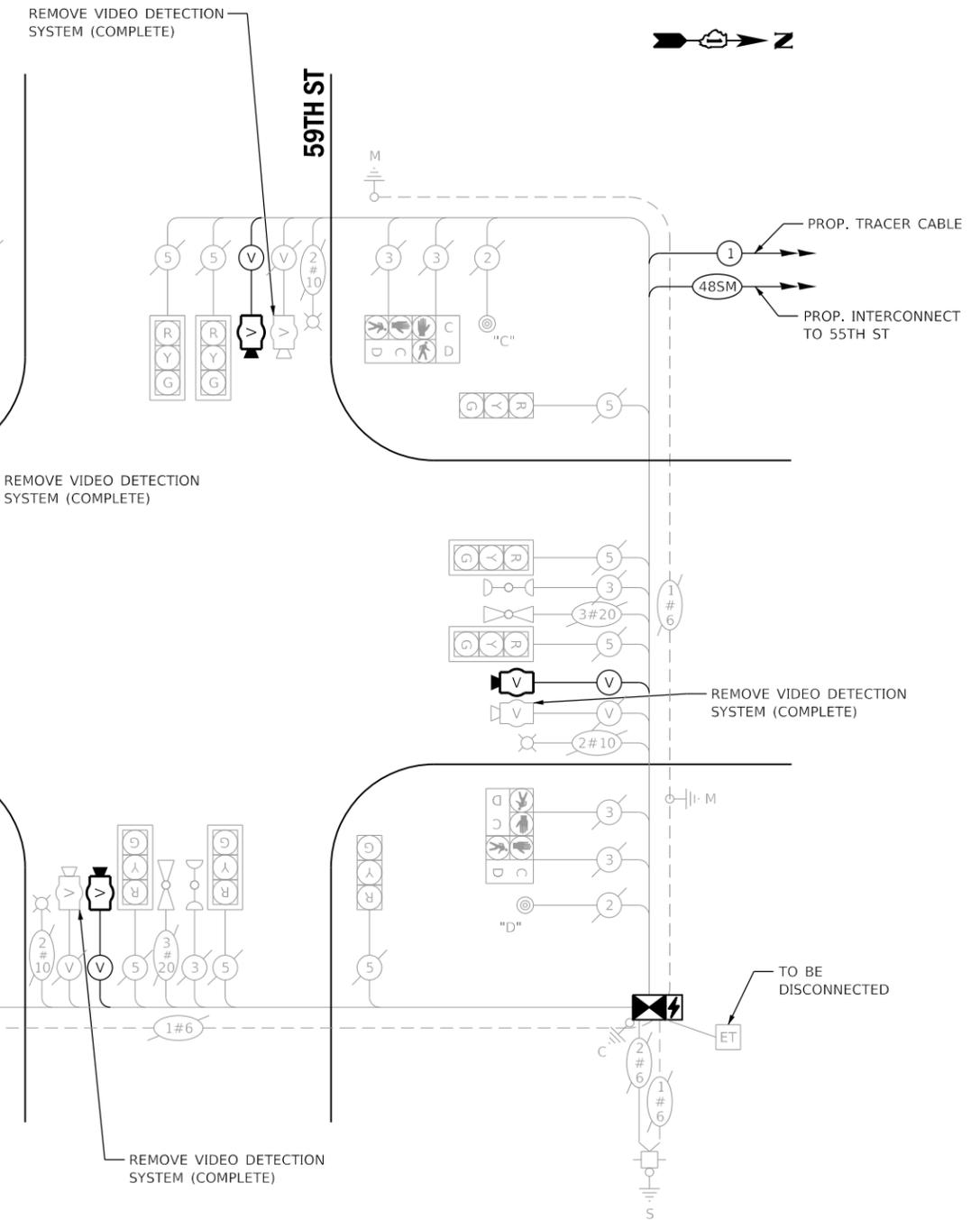
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
276	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CABLE PLAN
(NOT TO SCALE)

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.

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

DUDOT

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	96	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

DESIGNED - ZH	REVISED -
DRAWN - RG	REVISED -
CHECKED - DW	REVISED -
DATE -	REVISED -

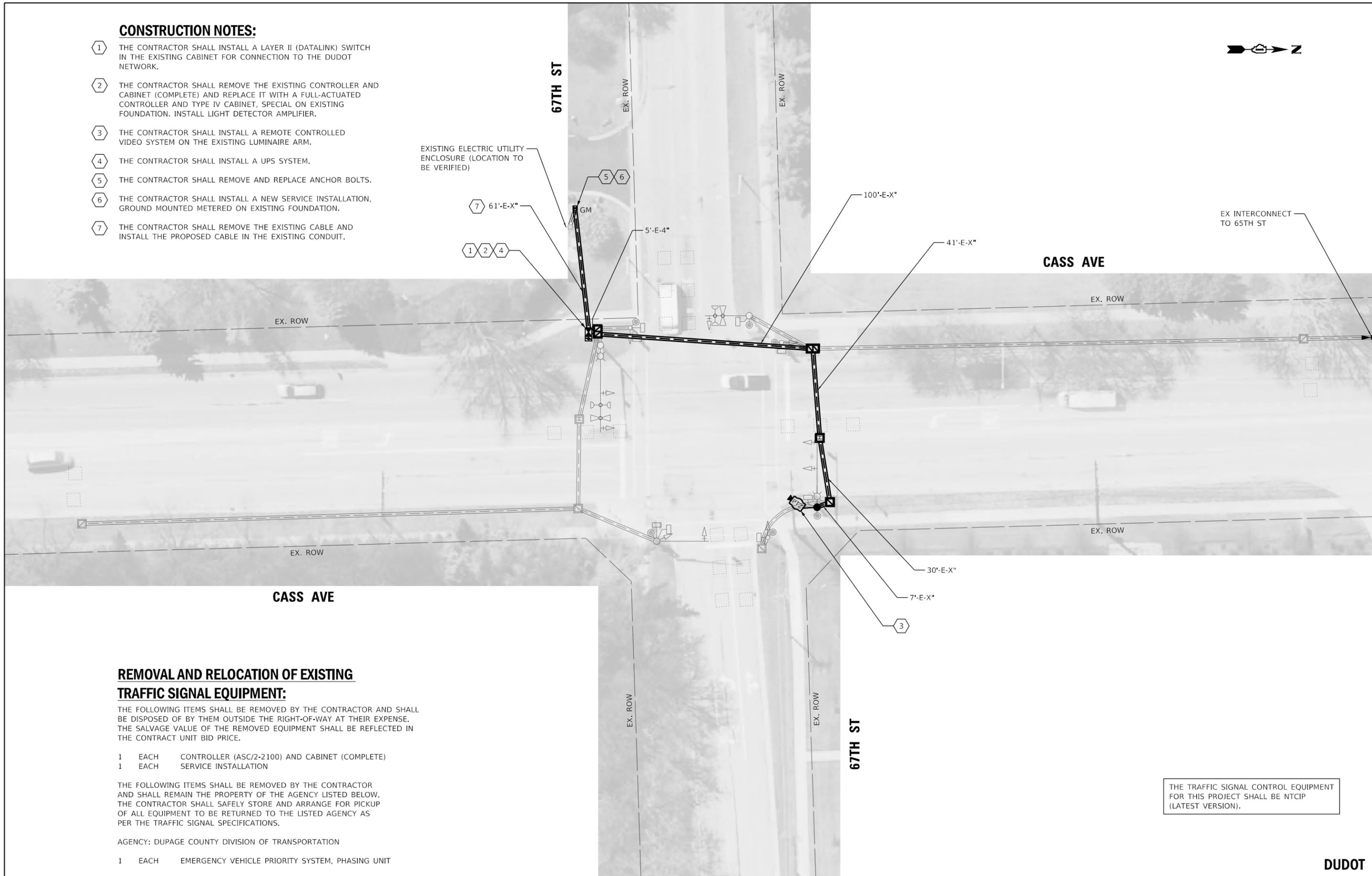
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES MAIN ST AND 59TH ST	
SCALE:	SHEET 167 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	185
			CONTRACT NO. 61H22	

ILLINOIS	FED. AID PROJECT
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CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 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. INSTALL LIGHT DETECTOR AMPLIFIER.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL REMOVE AND REPLACE ANCHOR BOLTS.
- 6 THE CONTRACTOR SHALL INSTALL A NEW SERVICE INSTALLATION, GROUND MOUNTED METERED ON EXISTING FOUNDATION.
- 7 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.



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/2-2100) AND CABINET (COMPLETE)
- 1 EACH 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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

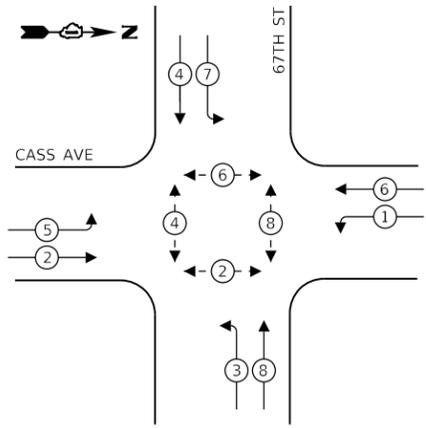
- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN CASS AVE AND 67TH ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	68	DRAWN - RG	REVISED -		SCALE:	SHEET 168	OF 172	SHEETS	STA.	TO STA.	VAR.	19-DCCSS-03-TL	DUPAGE
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -									CONTRACT NO.	61H22
	PLOT DATE = 8/2/2021	DATE -	REVISED -									ILLINOIS	FED. AID PROJECT

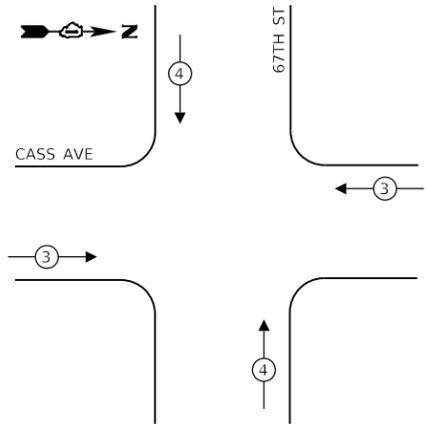
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
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 =				745

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

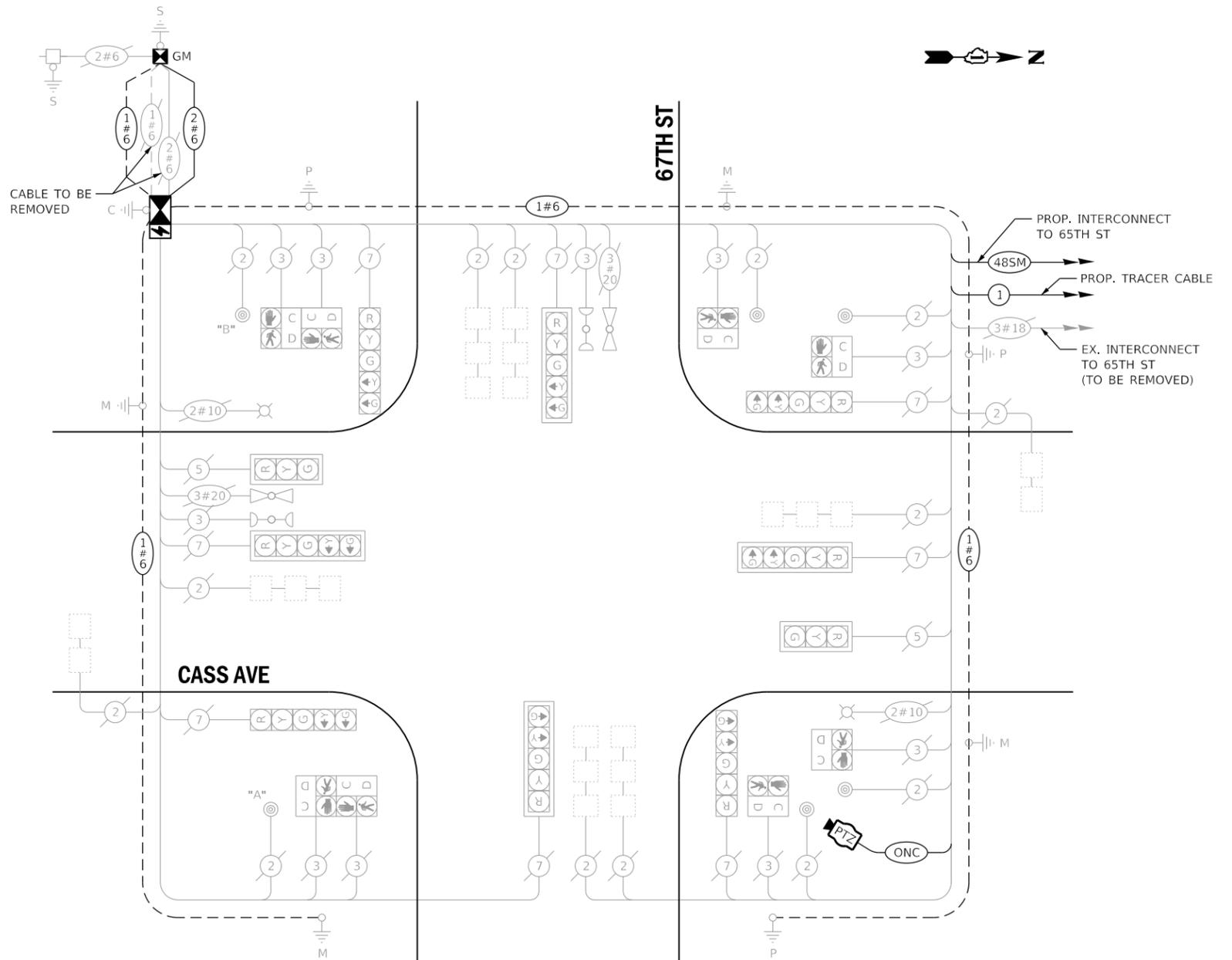
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER: _____

TOTAL QUANTITY	UNITS
1	EACH
7	EACH
80	FOOT
750	FOOT
10	EACH
1	EACH
122	FOOT
1	EACH
61	FOOT
290	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
GROUNDING EXISTING HANDHOLE FRAME AND COVER
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
INDUCTIVE LOOP DETECTOR
LIGHT DETECTOR AMPLIFIER
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ROD AND CLEAN EXISTING CONDUIT
OUTDOOR RATED NETWORK CABLE
SERVICE INSTALLATION, GROUND MOUNTED, METERED
FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
REMOVE AND REPLACE ANCHOR BOLTS



CABLE PLAN
(NOT TO SCALE)

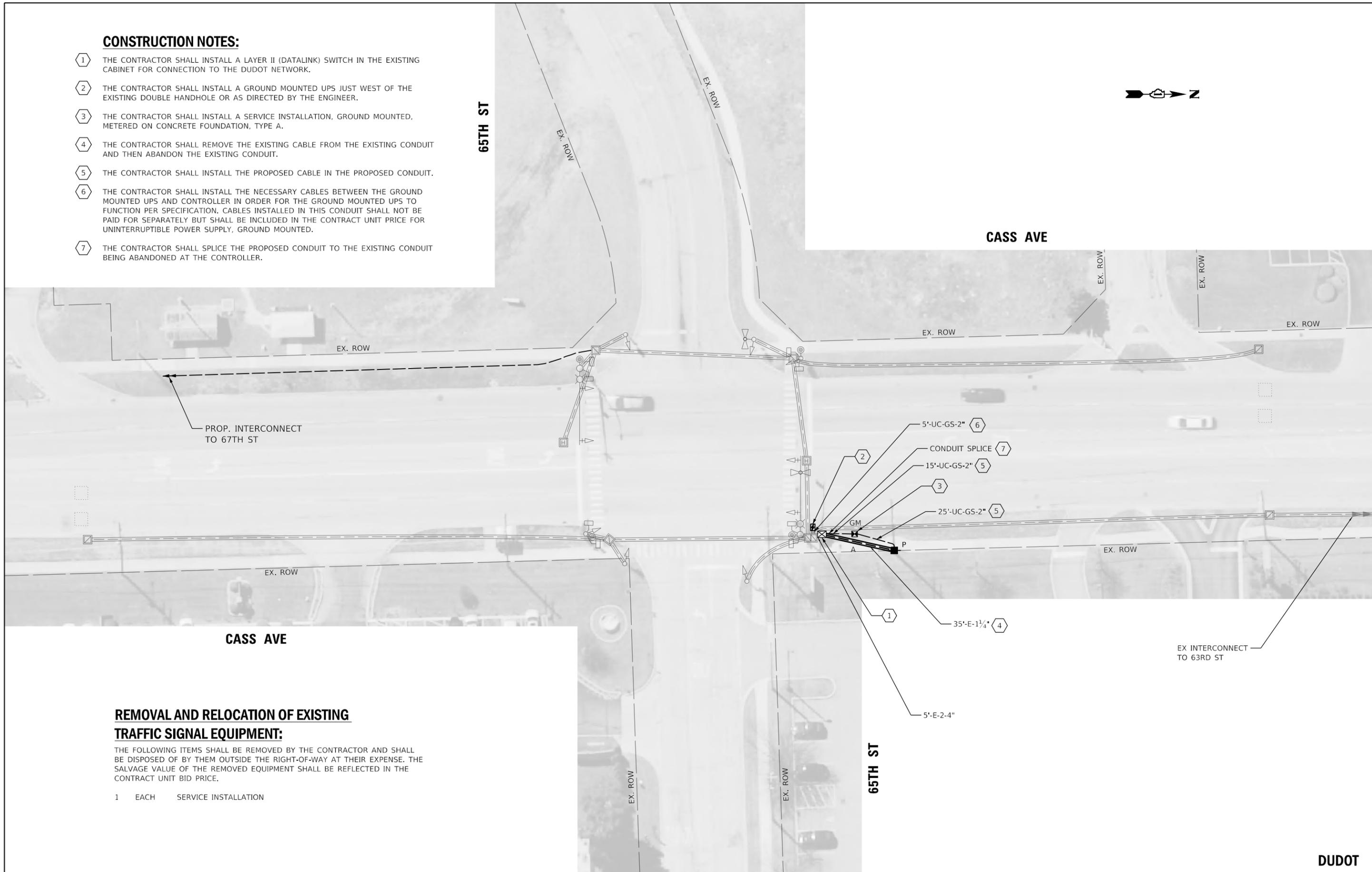
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 2 AND 4.
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6.

	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES CASS AVE AND 67TH ST	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -			VAR.	19-DCCSS-03-TL	DUPAGE	307	187
PLOT DATE = 8/2/2021	DATE -	REVISED -	SCALE:	SHEET 169 OF 172 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A GROUND MOUNTED UPS JUST WEST OF THE EXISTING DOUBLE HANDHOLE OR AS DIRECTED BY THE ENGINEER.
- 3 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION, GROUND MOUNTED, METERED ON CONCRETE FOUNDATION, TYPE A.
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE FROM THE EXISTING CONDUIT AND THEN ABANDON THE EXISTING CONDUIT.
- 5 THE CONTRACTOR SHALL INSTALL THE PROPOSED CABLE IN THE PROPOSED CONDUIT.
- 6 THE CONTRACTOR SHALL INSTALL THE NECESSARY CABLES BETWEEN THE GROUND MOUNTED UPS AND CONTROLLER IN ORDER FOR THE GROUND MOUNTED UPS TO FUNCTION PER SPECIFICATION. CABLES INSTALLED IN THIS CONDUIT SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED.
- 7 THE CONTRACTOR SHALL SPLICE THE PROPOSED CONDUIT TO THE EXISTING CONDUIT BEING ABANDONED AT THE CONTROLLER.



REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

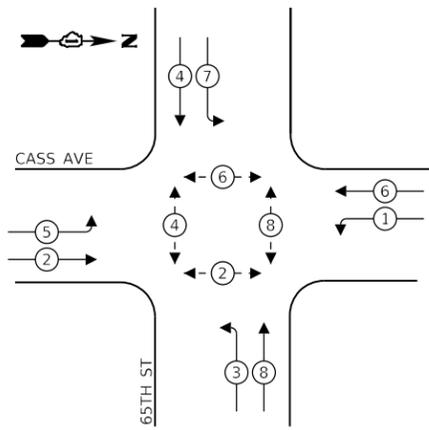
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH SERVICE INSTALLATION

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>TRAFFIC SIGNAL MODERNIZATION PLAN CASS AVE AND 65TH ST</p>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	67	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 170	OF 172 SHEETS	STA.	TO STA.	19-DCCSS-03-TL	DUPAGE	307	188
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -										
	PLOT DATE = 8/2/2021	DATE -	REVISED -										
<p>FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-cass-ts-plan.dgn Int67</p>													

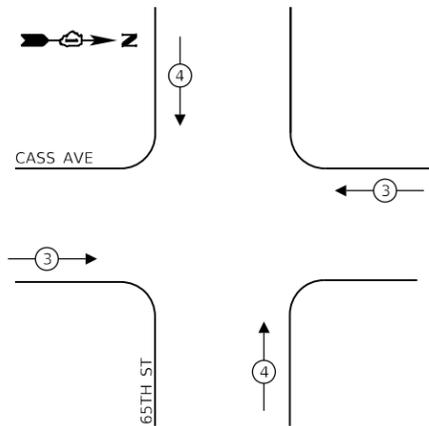
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
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	-	75	100	-
TOTAL =				670

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

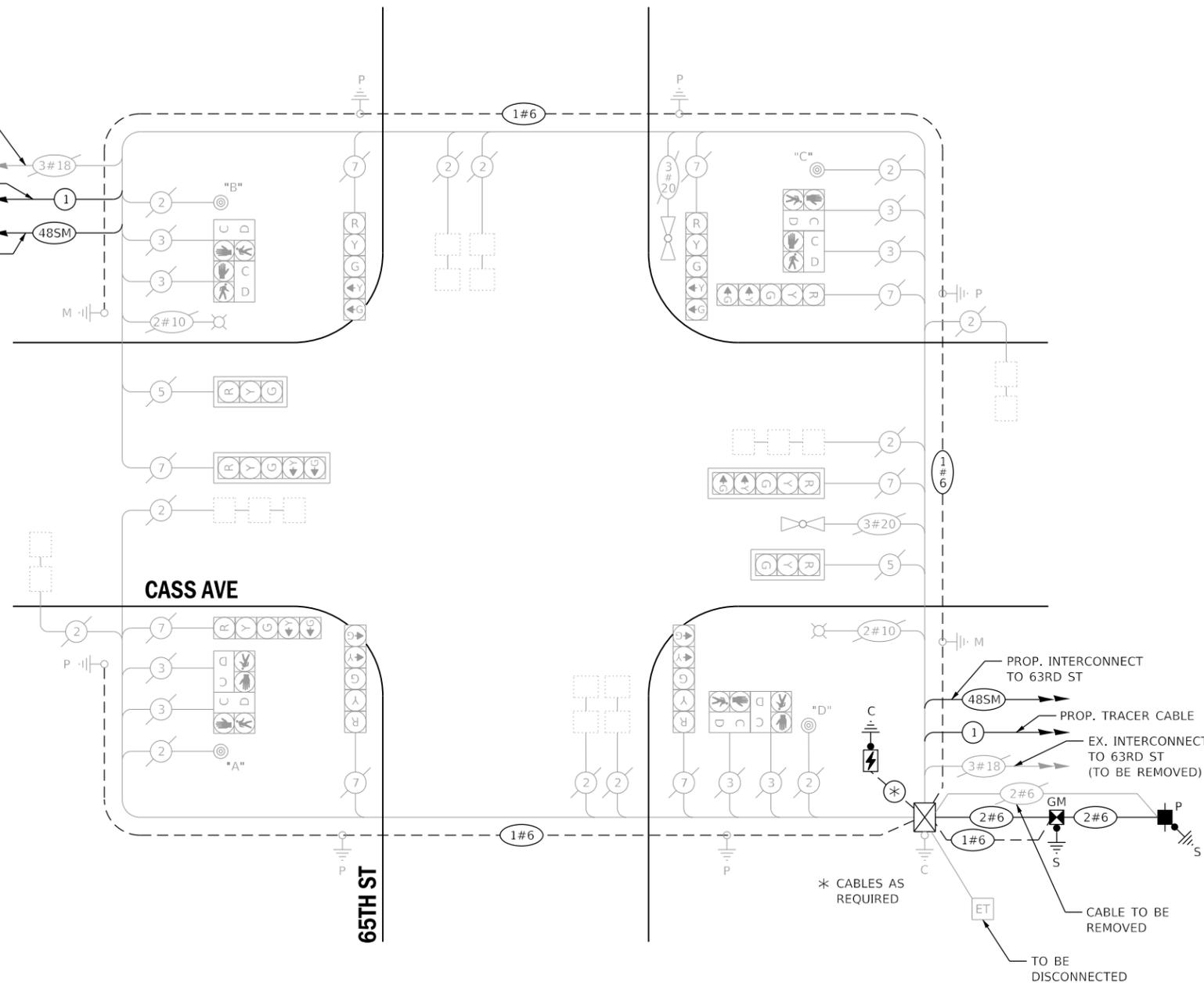
421 N. COUNTY FARM RD.
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
45	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
70	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
4	FOOT	CONCRETE FOUNDATION, TYPE A
35	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, GROUND MOUNTED, METERED
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	CONDUIT SPLICE
1	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES

EX. INTERCONNECT TO 67TH ST (TO BE REMOVED)
PROP. TRACER CABLE
PROP. INTERCONNECT TO 67TH ST



CABLE PLAN
(NOT TO SCALE)

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 8 AND 2

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	67	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

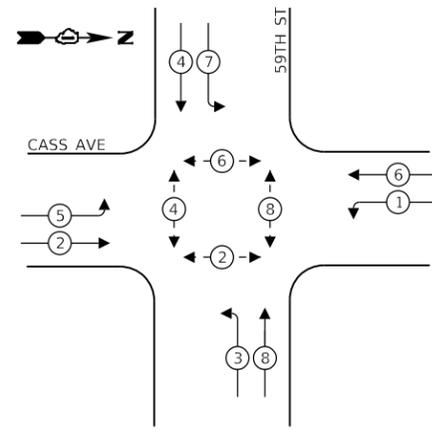
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
CASS AVE AND 65TH ST**

SCALE: SHEET 171 OF 172 SHEETS STA. TO STA.

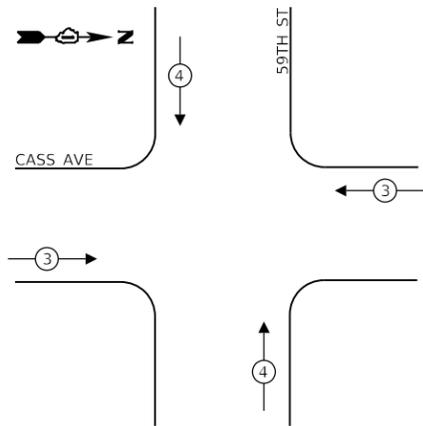
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	189
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

DUDOT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (13'-E-1 1/4").

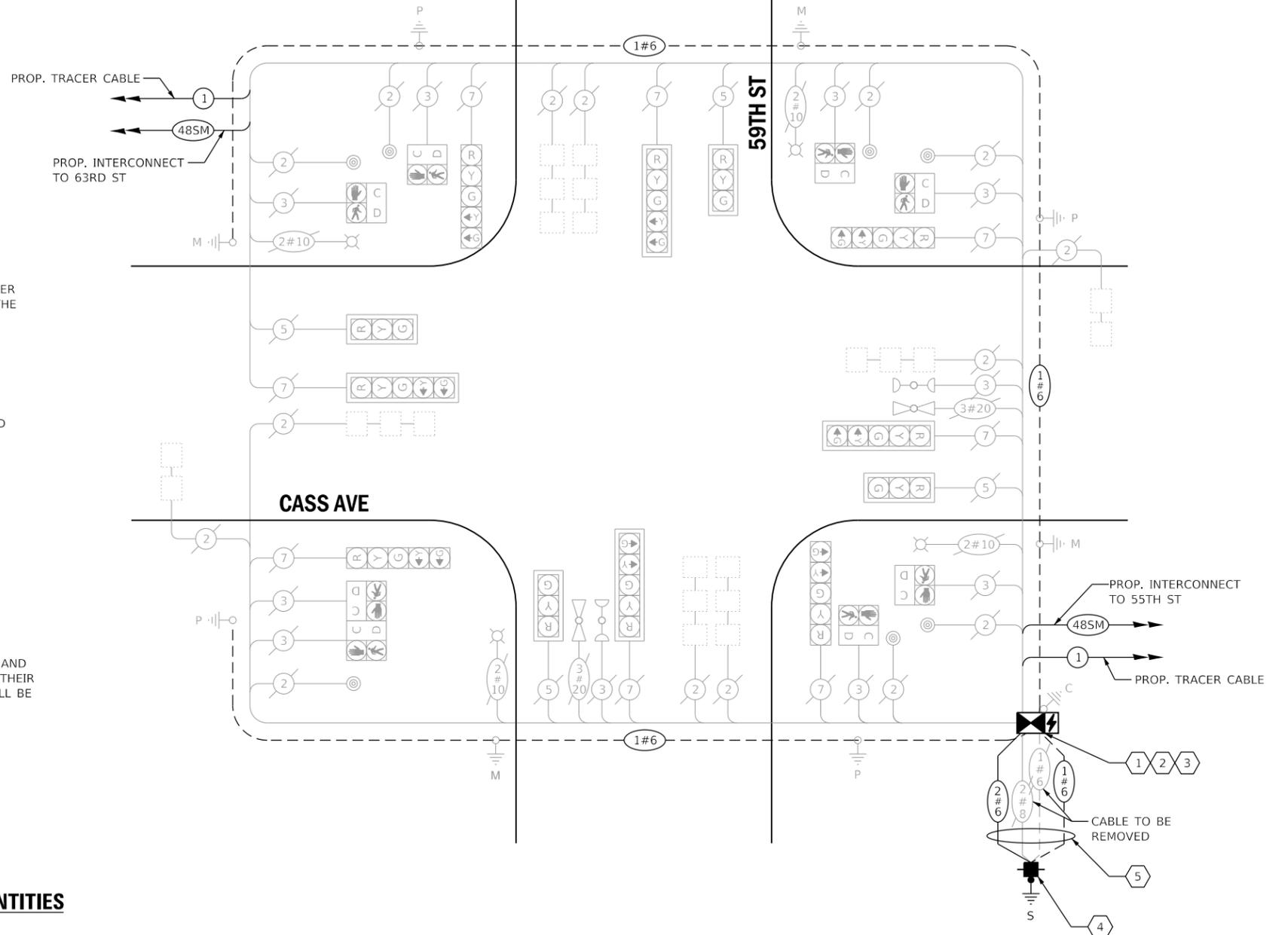
REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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-1000)
- 1 EACH SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
35	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C
26	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
13	FOOT	ROD AND CLEAN EXISTING CONDUIT
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 AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH



CABLE PLAN
(NOT TO SCALE)

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	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	-	75	100	-
TOTAL =				944

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:



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
66	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

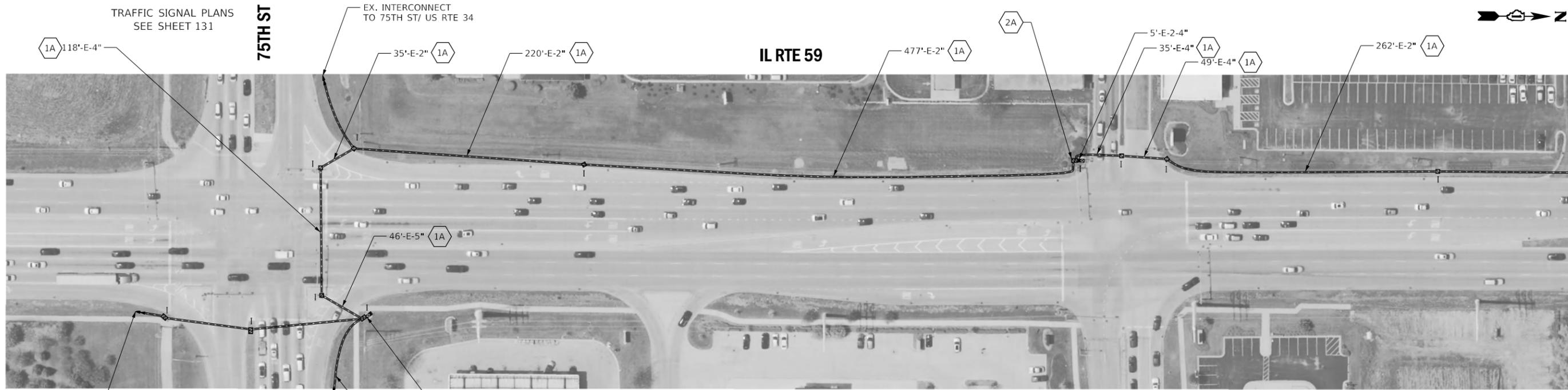
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
CASS AVE AND 59TH ST

SCALE: SHEET 172 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	190
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

DUDOT



EX. INTERCONNECT TO IL RTE 59/BEEBE DR

NOTES:

1A THE CONTRACTOR SHALL REMOVE EXISTING TRACER CABLE AND INSTALL PROPOSED FIBER OPTIC AND TRACER CABLE.

EX. INTERCONNECT TO 75TH ST/BEEBE DR

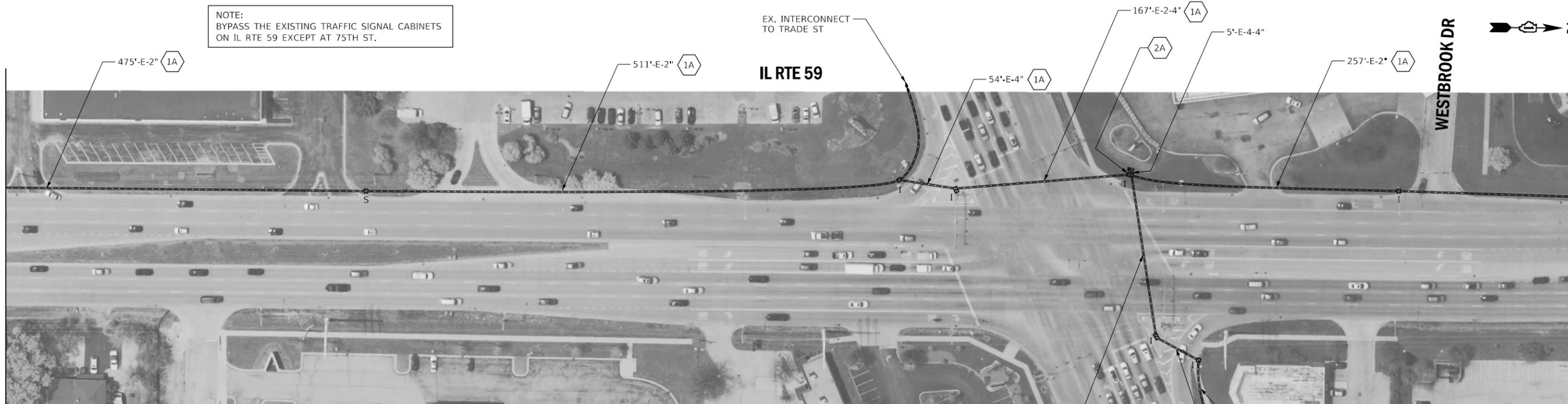
2A THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION AND SPLICE EXISTING TRACER CABLE WITH PROPOSED TRACER CABLE. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.

3 THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.

4 EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

AUDREY AVE

MATCHLINE A-A



NOTE:
BYPASS THE EXISTING TRAFFIC SIGNAL CABINETS ON IL RTE 59 EXCEPT AT 75TH ST.

MATCHLINE A-A

HENLEY LN

WESTBROOK DR

MATCHLINE B-B SEE SHEET 192



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

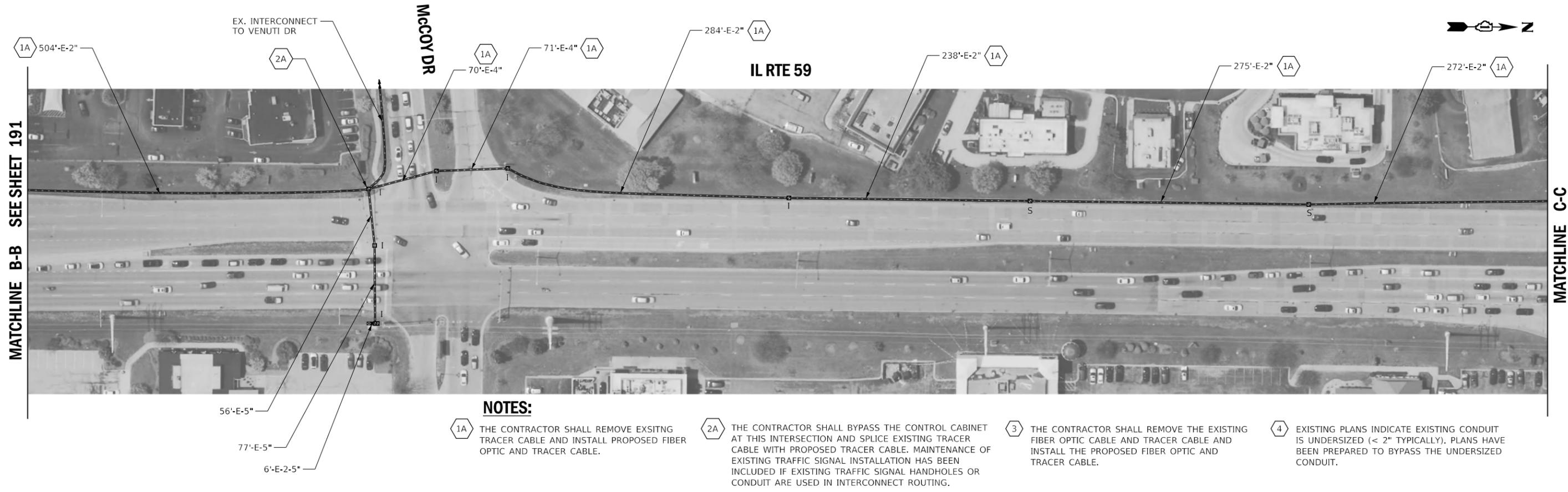
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
AREA 1 - IL RTE 59

SCALE: 1"=50' SHEET 1 OF 19 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	191
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

FILE NAME = X:\Projects\GFL\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\sh-Int-loc1_IL RTE 59.dgn Default



DLZ	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN AREA 1 - IL RTE 59		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -				VAR.	19-DCCSS-03-TL	DUPAGE	307	192
	PLOT DATE = 8/2/2021	DATE -	REVISED -		SCALE: 1"=50'	SHEET 2 OF 19 SHEETS	STA.	TO STA.	CONTRACT NO. 61H22		
FILE NAME = X:\Projects\GFL\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\sh-ht-loc1_IL RTE 59.dgn ILLINOIS FED. AID PROJECT											

MATCHLINE E-E SEE SHEET 200



MATCHLINE L-L

NOTES:

- ① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ② 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.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ④ EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

WEBER RD

MATCHLINE L-L



MATCHLINE M-M SEE SHEET 194



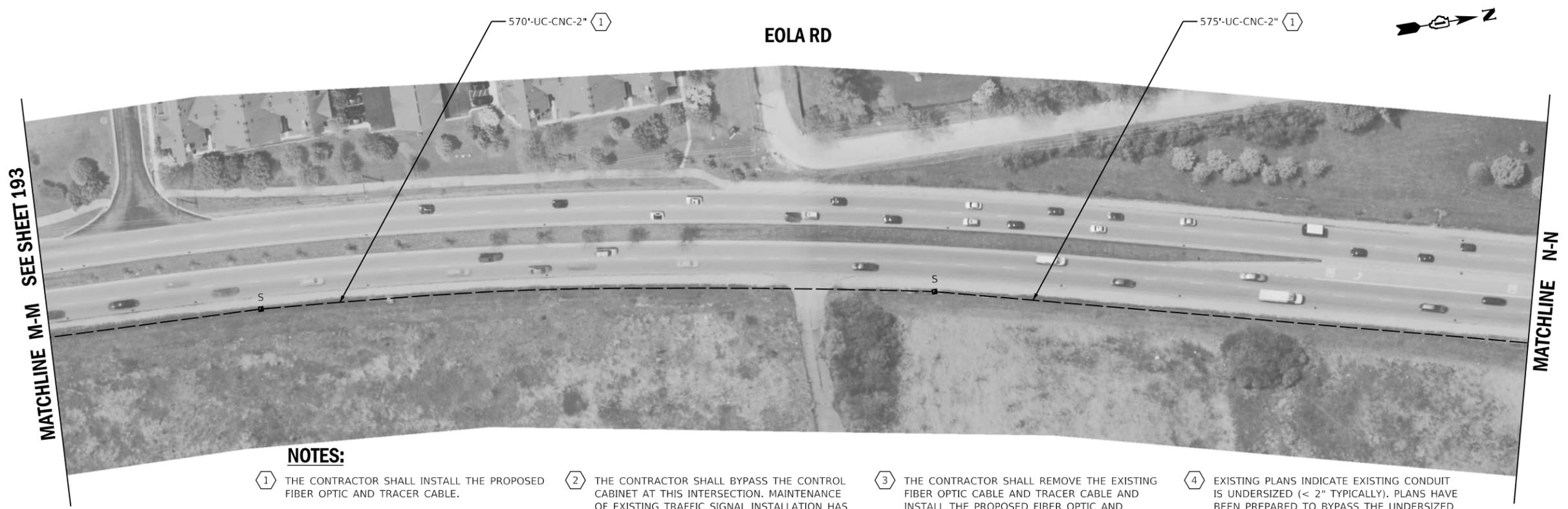
USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 7/25/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
AREA 1 - EOLA RD

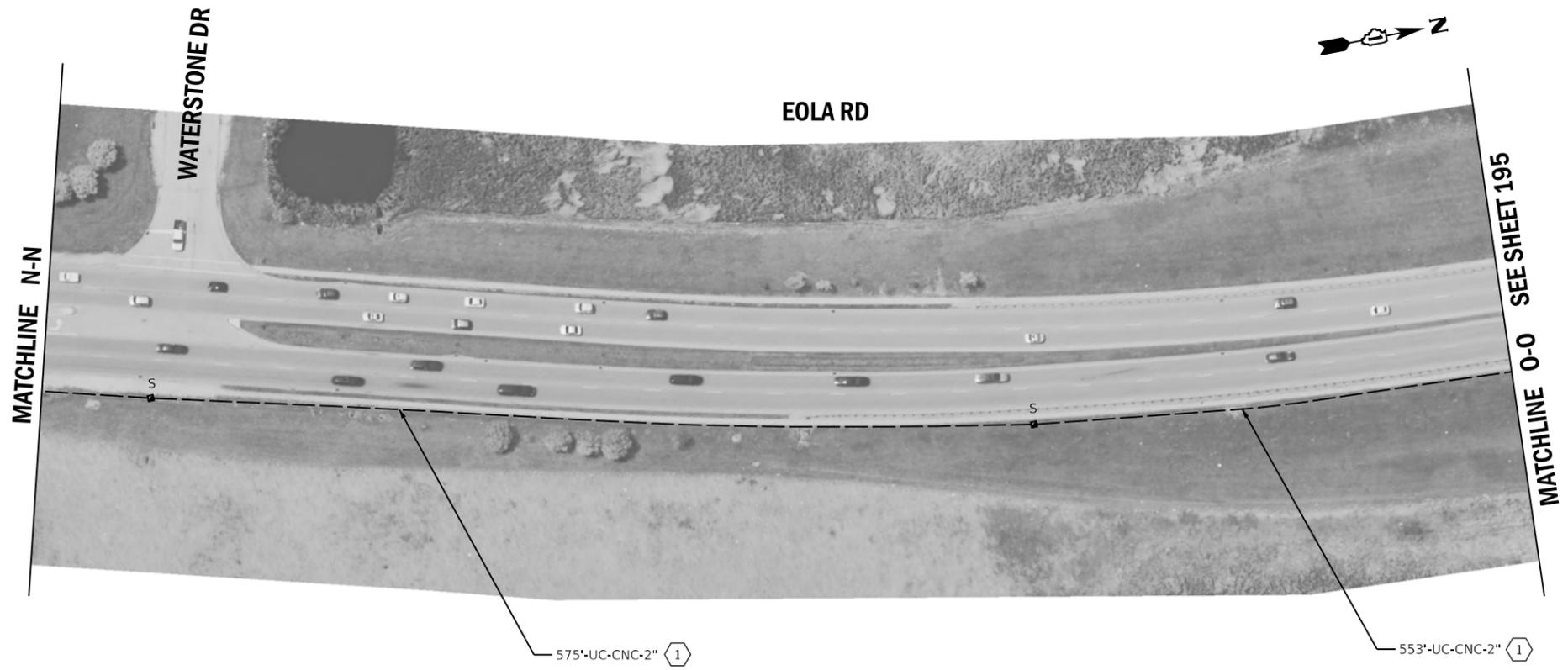
SCALE: 1"=50' SHEET 3 OF 19 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	193
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				



NOTES:

- ① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ② 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.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ④ EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

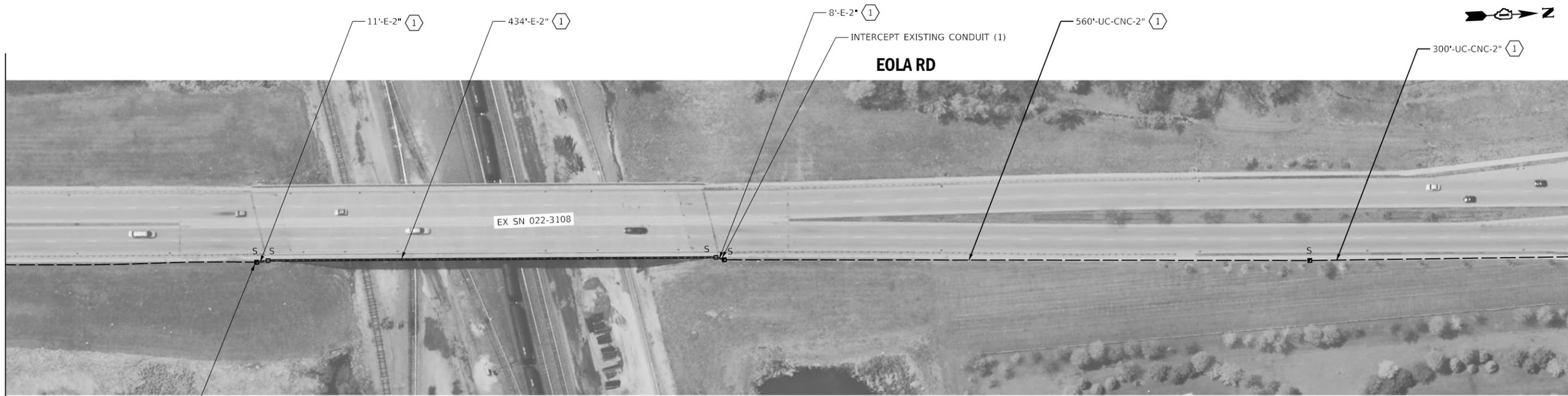


	USER NAME = rgeorgescu	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN AREA 1 - EOLA RD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN - RG	REVISED -		VAR.	19-DCCSS-03-TL	DUPAGE	307	194			
PLOT DATE = 7/25/2021	CHECKED - ZH	REVISED -	SCALE: 1"=50'		SHEET 4 OF 19 SHEETS	STA.	TO STA.	CONTRACT NO. 61H22				
	DATE -	REVISED -							ILLINOIS FED. AID PROJECT			

FILE NAME = X:\Projects\GFL\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\sh-ht-loc1_Eola.dgn
Default

MATCHLINE O-O SEE SHEET 194

MATCHLINE P-P



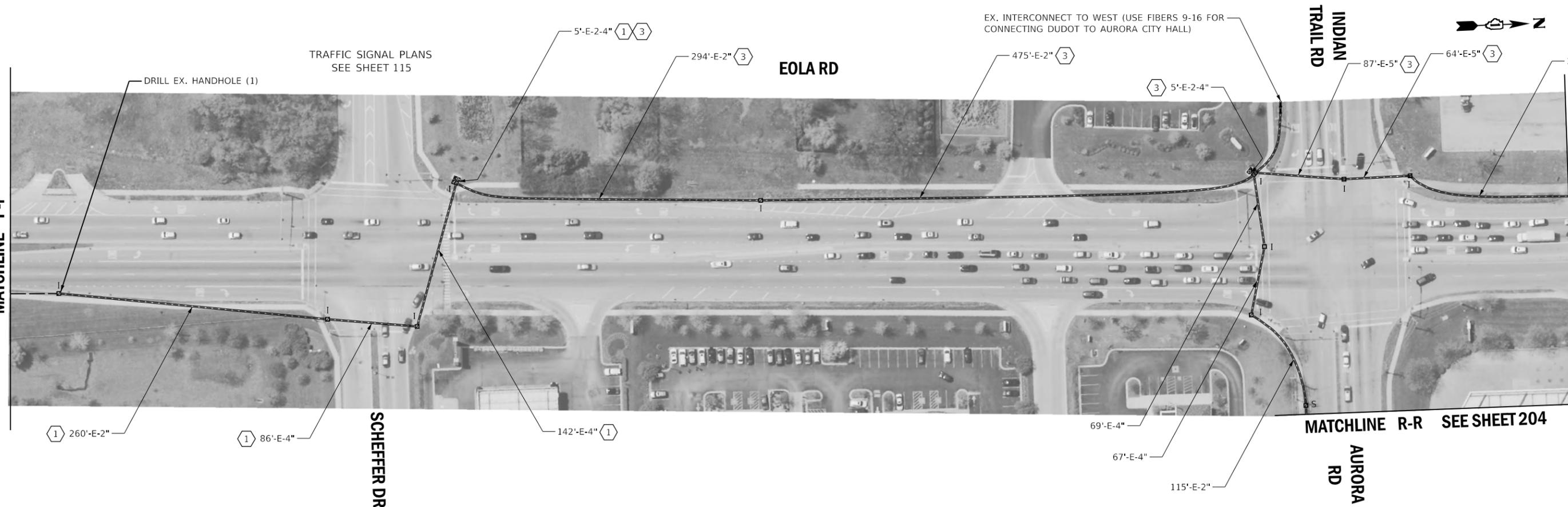
NOTES:

- (1) THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- (2) 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.
- (3) THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- (4) EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

BNSF RR

MATCHLINE P-P

MATCHLINE Q-Q SEE SHEET 196



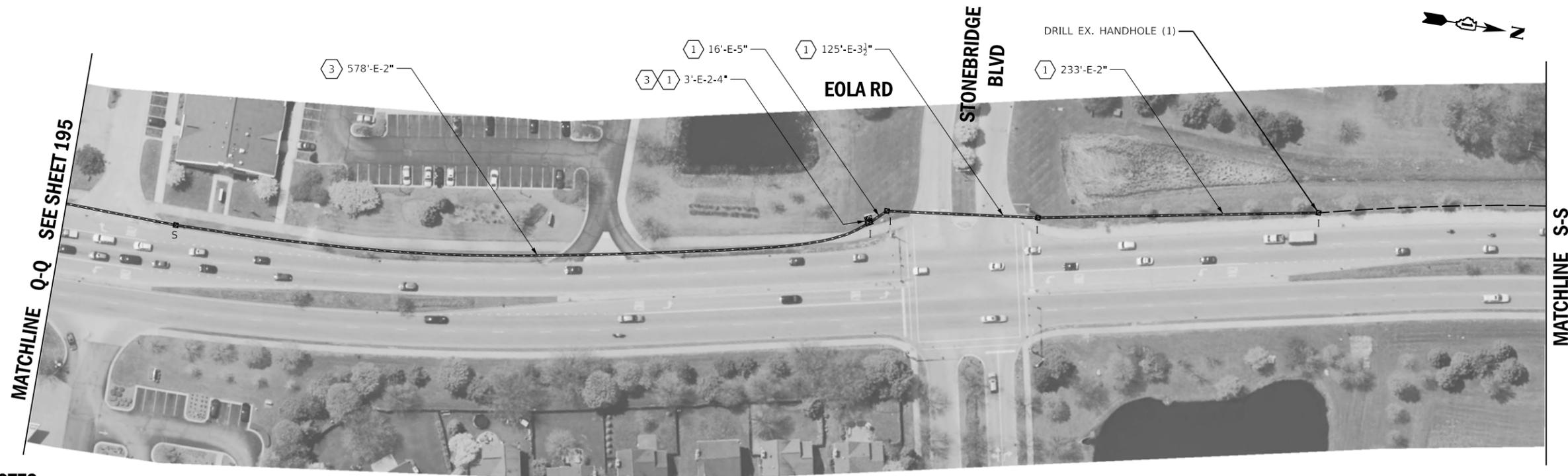
USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 7/25/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
AREA 1 - EOLA RD

SCALE: 1"=50' SHEET 5 OF 19 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	195
CONTRACT NO. 61H22				
ILLINOIS		FED. AID PROJECT		

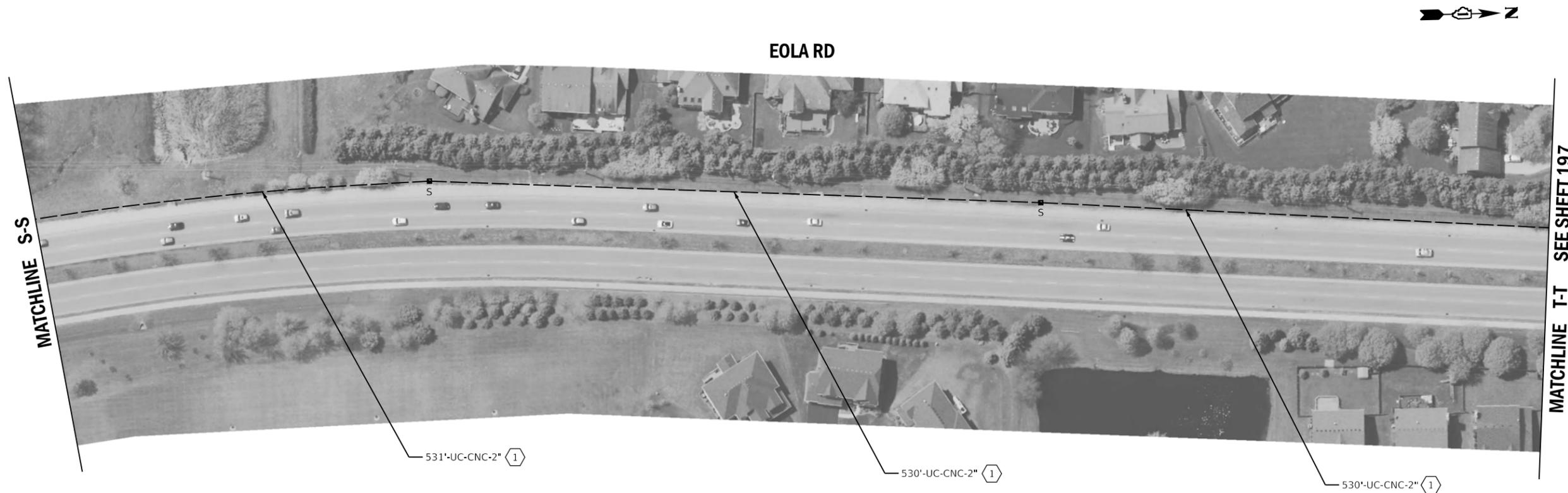


NOTES:

- 1 THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 2 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.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 4 EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

TRAFFIC SIGNAL PLANS
SEE SHEET 118

H A V E R H I L L
D R



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 7/25/2021	DATE -	REVISED -

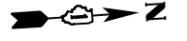
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
AREA 1 - EOLA RD

SCALE: 1"=50' SHEET 6 OF 19 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	196
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H22	

MATCHLINE T-T SEE SHEET 196



BENNETT PL

NOTES:

- ① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ② 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.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ④ EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

TRAFFIC SIGNAL PLANS
SEE SHEET 119

MOLTOR RD
METEA
HIGH SCHOOL
S ENT

MATCHLINE U-U

MATCHLINE U-U



METEA
HIGH SCHOOL
N ENT

TRAFFIC SIGNAL PLANS
SEE SHEET 121

PRAIRIE PATH
ILLINOIS

MATCHLINE V-V SEE SHEET 198



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 7/25/2021	DATE -	REVISED -

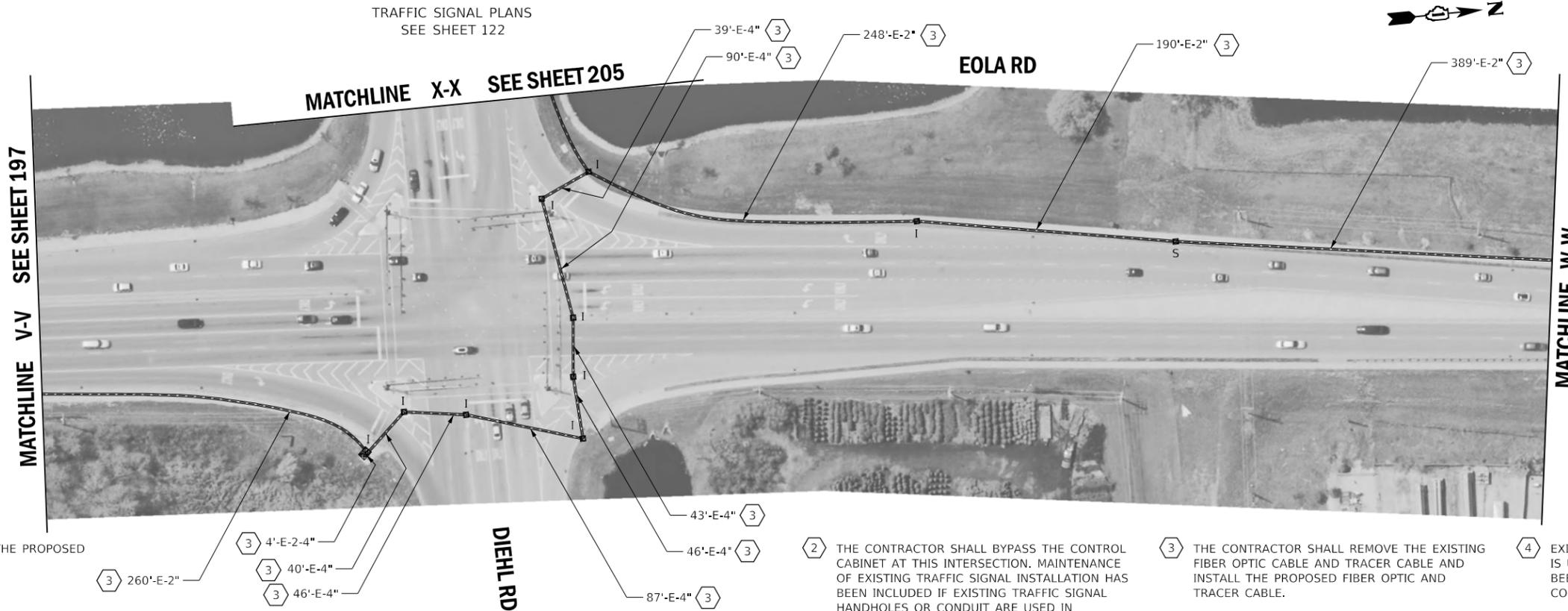
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
AREA 1 - EOLA RD

SCALE: 1"=50' SHEET 7 OF 19 SHEETS STA. TO STA.

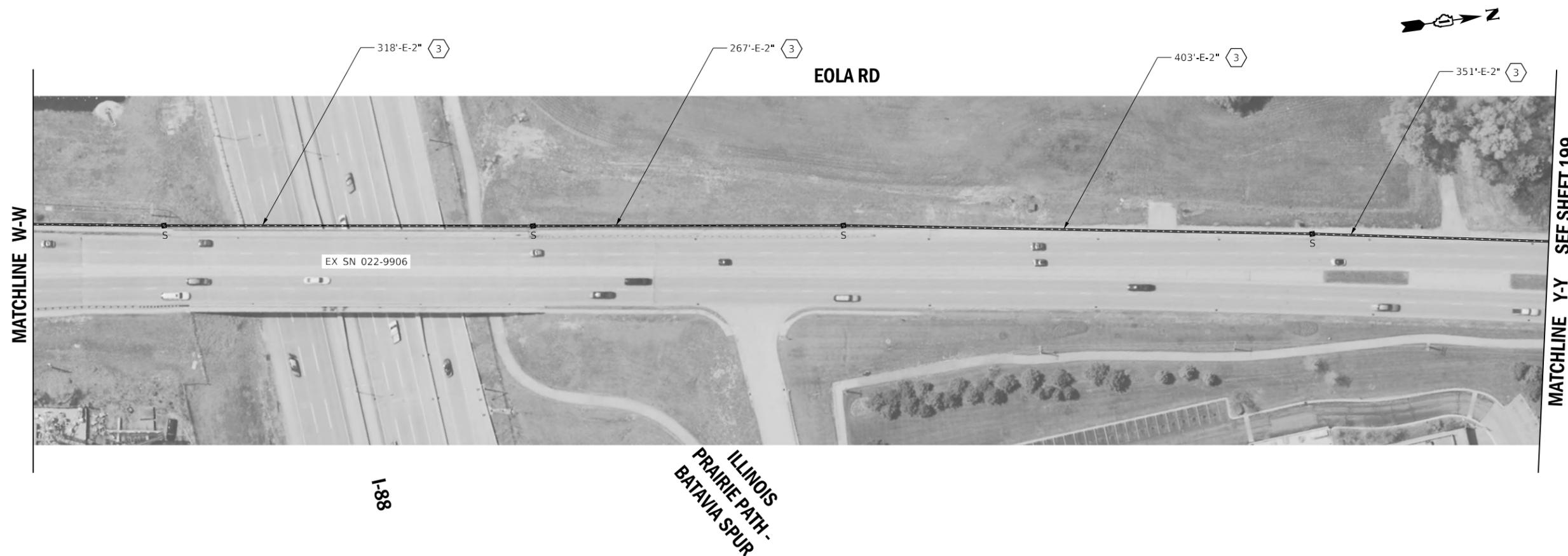
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	197
CONTRACT NO. 61H22			ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNAL PLANS
SEE SHEET 122



NOTES:

- ① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ② 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.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ④ EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

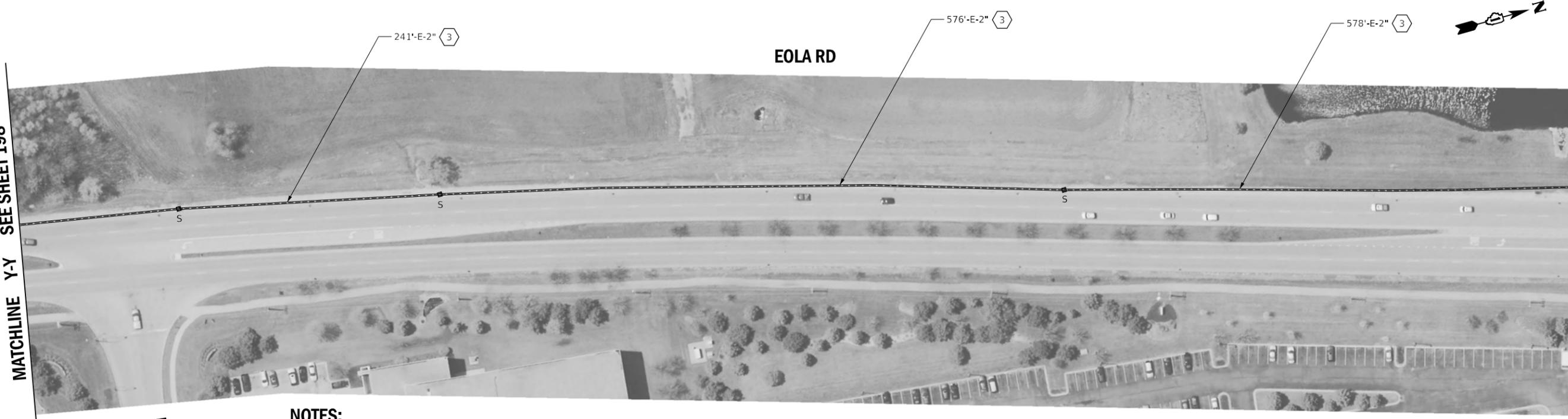


DLZ	USER NAME = rgeorgescu	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN AREA 1 - EOLA RD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN - RG	REVISED -		SCALE: 1"=50'	SHEET 8 OF 19 SHEETS	STA. TO STA.	VAR.	19-DCCSS-03-TL	DUPAGE	307
	PLOT DATE = 7/25/2021	CHECKED - ZH	REVISED -				CONTRACT NO. 61H22				
		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

MATCHLINE Y-Y SEE SHEET 198

MATCHLINE Z-Z SEE SHEET 207

PROSPECT
DR



NOTES:

- ① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ② 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.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ④ EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.



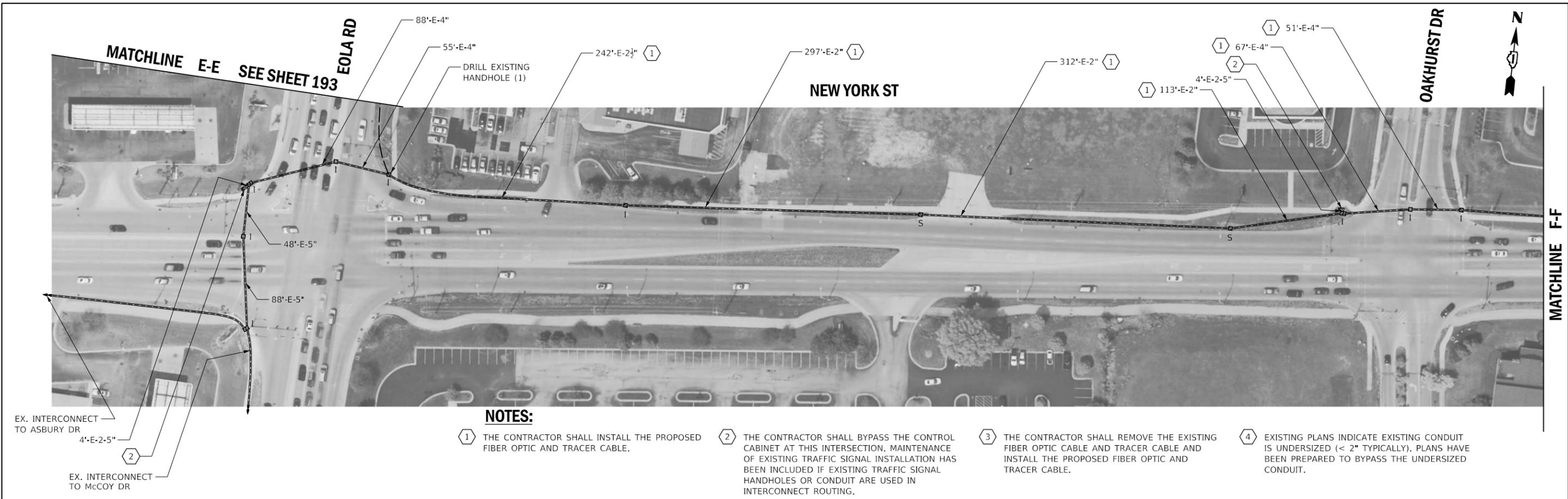
USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 7/25/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
AREA 1 - EOLA RD

SCALE: 1"=50' SHEET 9 OF 19 SHEETS STA. TO STA.

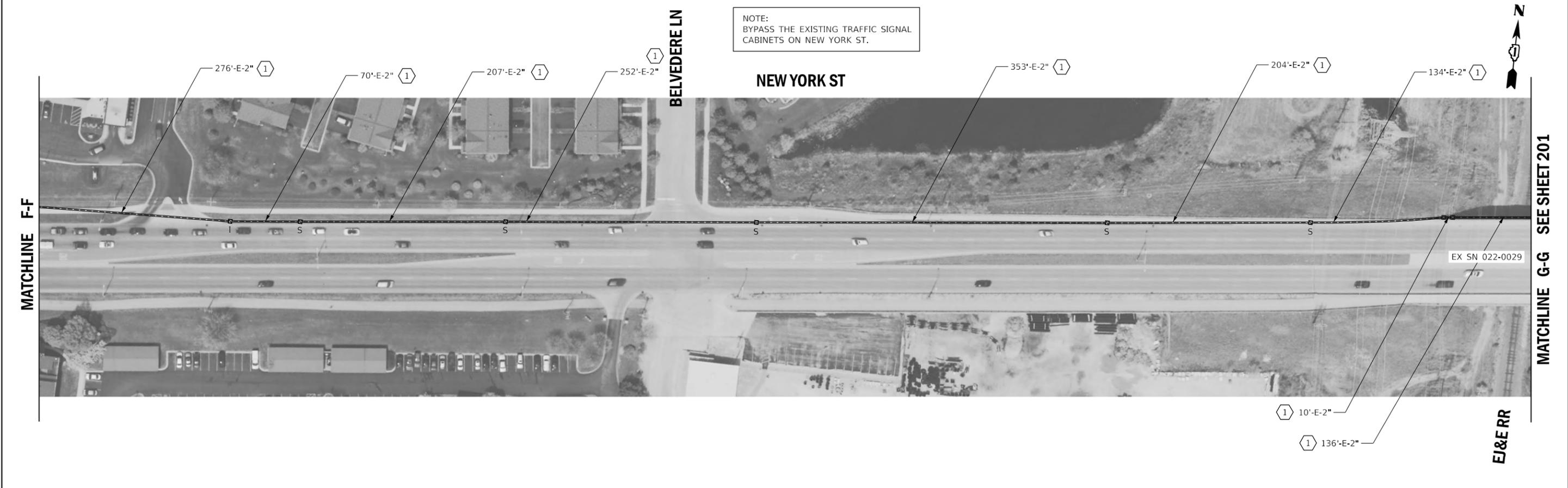
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	199
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	



EX. INTERCONNECT TO ASBURY DR
4'-E-2-5"
EX. INTERCONNECT TO MCCOY DR

NOTES:

- ① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ② 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.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ④ EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (< 2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.



NOTE:
BYPASS THE EXISTING TRAFFIC SIGNAL CABINETS ON NEW YORK ST.

	USER NAME = rgeorgescu	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN AREA 1 - NEW YORK ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN - RG	REVISED -		VAR.	19-DCCSS-03-TL	DUPAGE	307	200			
PLOT DATE = 7/25/2021	CHECKED - ZH	REVISED -	SCALE: 1"=50'		SHEET 10 OF 19 SHEETS	STA.	TO STA.	CONTRACT NO. 61H22				
	DATE -	REVISED -					ILLINOIS FED. AID PROJECT					

FILE NAME = X:\Projects\GFL\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\sh-Int-loc1_New York.dgn
Default