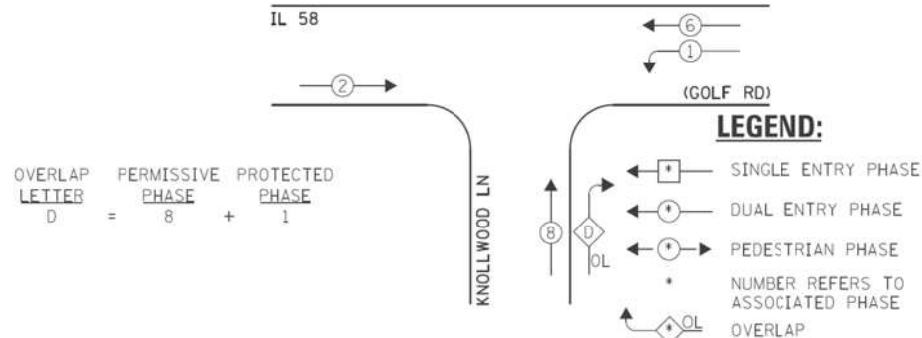
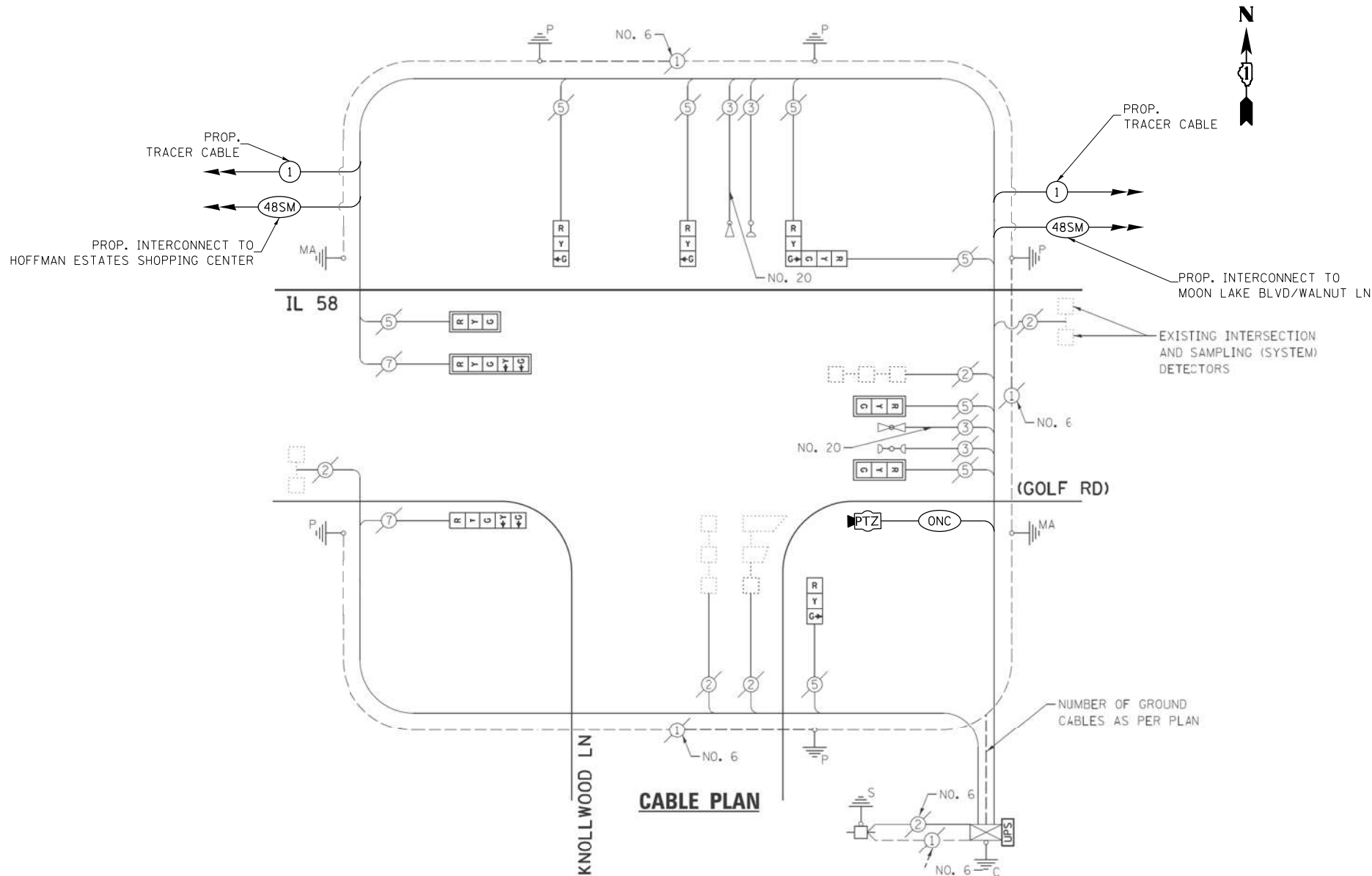
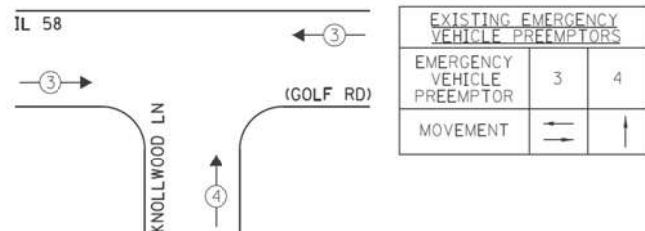


EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	76
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
		INCAND.	L.E.D.		
SIGNAL (RED)	10	135	17	0.50	85.0
SIGNAL (YELLOW)	10	135	25	0.25	62.5
SIGNAL (GREEN)	10	135	15	0.25	37.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					314.8

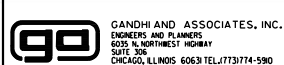
ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #30
IL RTE 58 (GOLF RD) AT KNOLLWOOD DR CABLE PLAN**

F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 VAR 2023 TRAFFIC 02 VARIOUS 306 101
 CONTRACT NO. 62T54
 FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\087-IL_Rte 58 at Knollwood Dr_CD.dgn

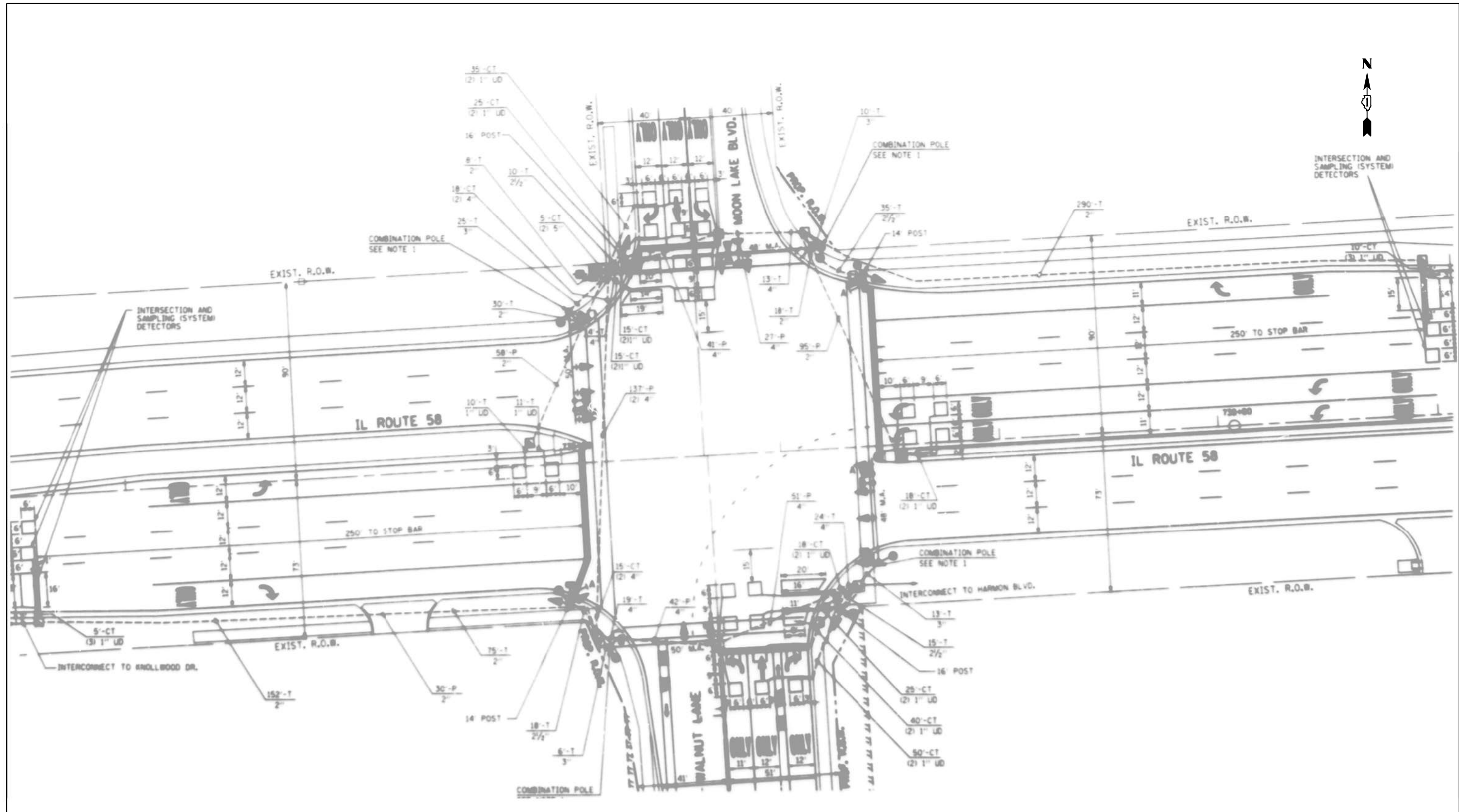


USER NAME = \$USER\$
 DESIGNED - EA
 DRAWN - EA, AV
 CHECKED - MS
 DATE - 10/31/2022

REVISED -
 REVISED -
 REVISED -
 REVISED -

**TS 21370
IDOT CENTRACS
FORMER ECON 150**

FILE NAME = K:\PROJECTS\Projects_2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\0876_IL_Rte 58 at Moon Lake Blvd_INT.dgn



NOTES:

1. CONTRACTOR SHOULD COORDINATE WORK WITH WORK UNDER CONTRACT 62R81. CONTRACT 62R81 CONSISTS OF SYSTEM EXPANSION 1 AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

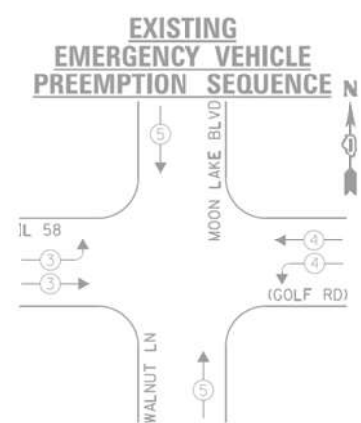
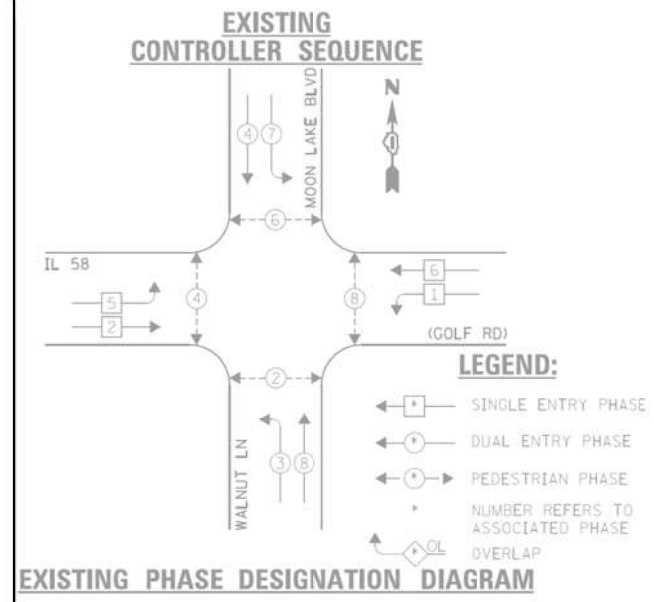
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #30.5
IL RTE 58 (GOLF RD) AT MOON LAKE BLVD INTERSECTION PLAN
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

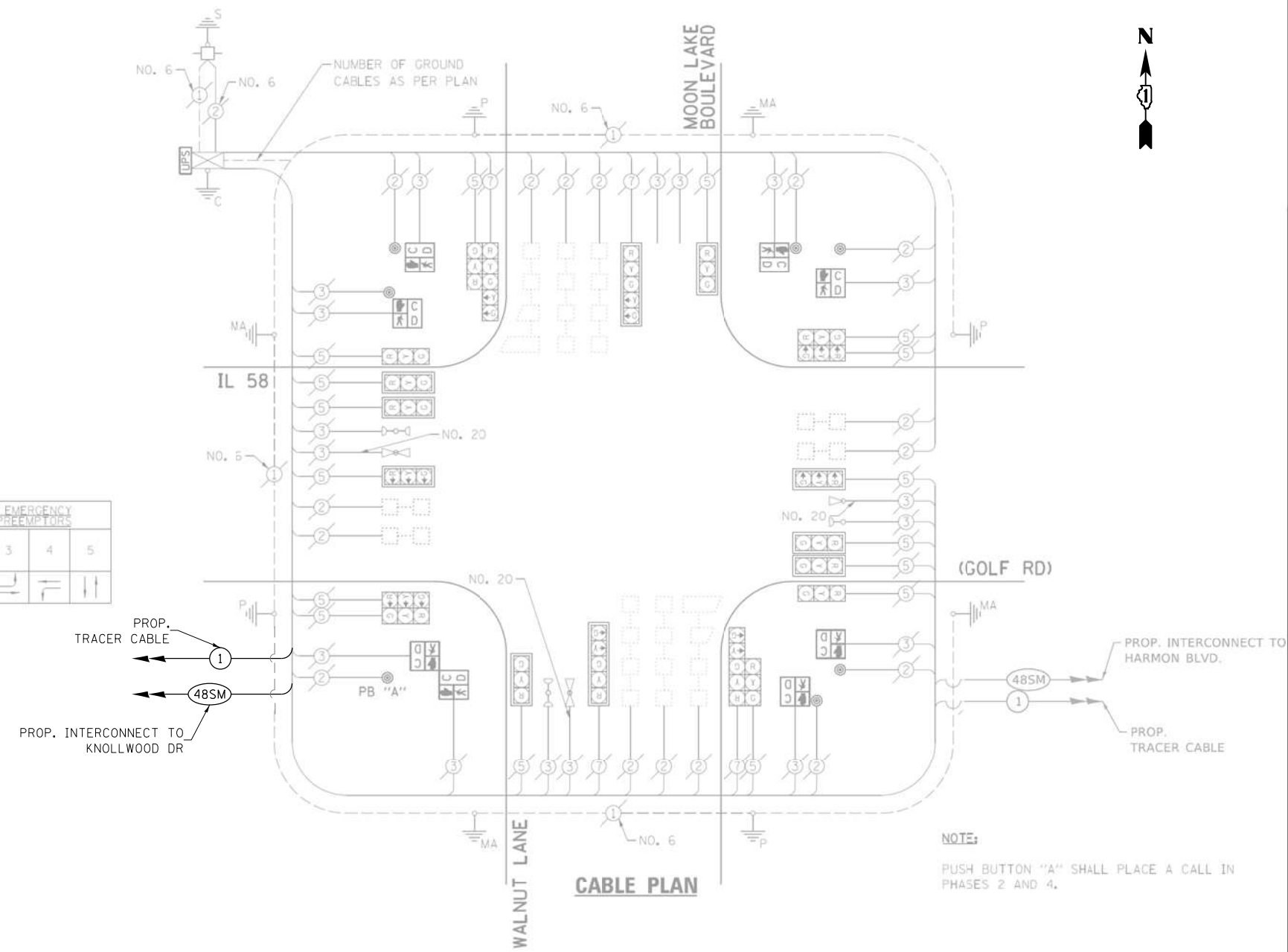
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	102
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62T54	

TS 2870
IDOT CENTRACS
FORMER ECON 81

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CADD\Sheets\0875-IL_Rte 58 at Moon Lake Blvd.CADD.dgn



EXISTING EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	←	←	←



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TERMINATE FIBER IN CABINET	EACH	6
SPLICE FIBER IN CABINET	EACH	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE		OPERATION	
		INCAND.	L.E.D.		
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	8	135	12	0.10	9.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					704.2

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - DAKBROOK TERRACE

	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #30.5
IL RTE 58 (GOLF RD) AT MOON LAKE BLVD CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

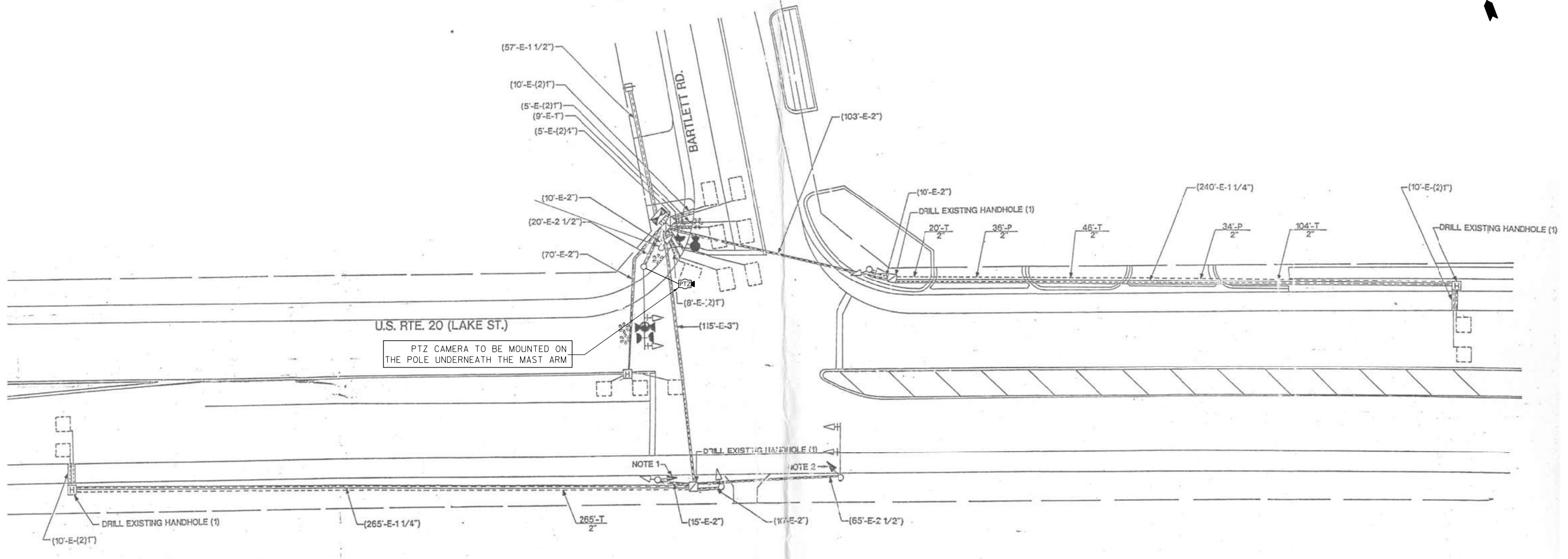
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	103
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 2870
IDOT CENTRACS
FORMER ECON 81

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC



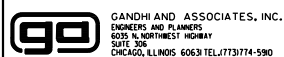
NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.
2. CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62P51. CONTRACT 62P51 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62P51 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY. PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62P51. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 11270
IDOT TACTICS
FORMER EAGLE 5F**

K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\088-US Rte 20 at Bartlett Rd.INT.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

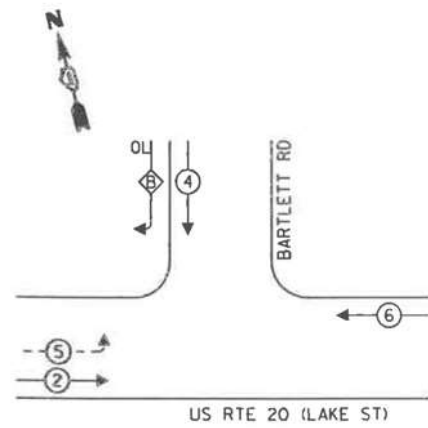
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	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #31			
US RTE 20 (LAKE ST) AT BARTLETT RD INTERSECTION PLAN			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	104
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



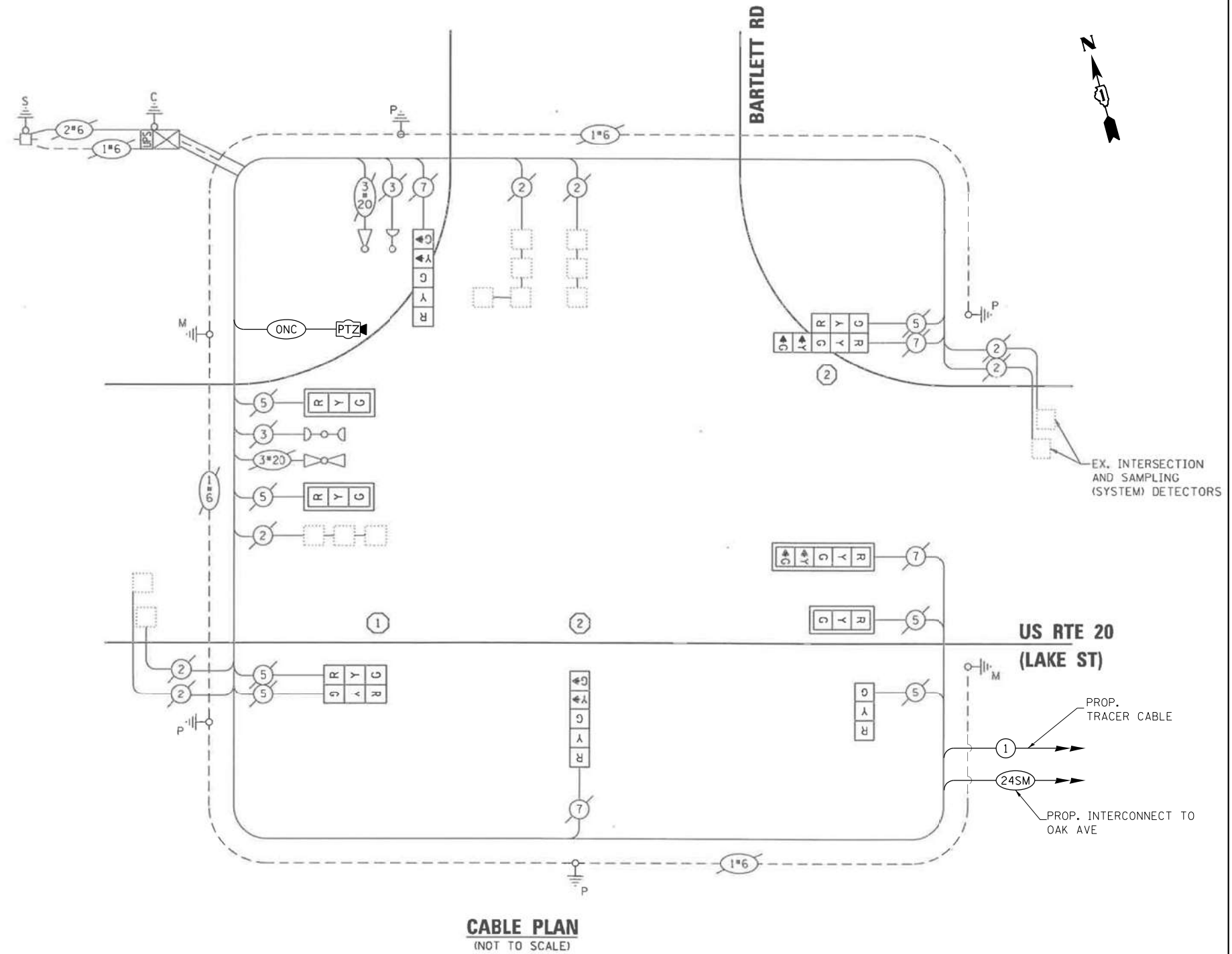
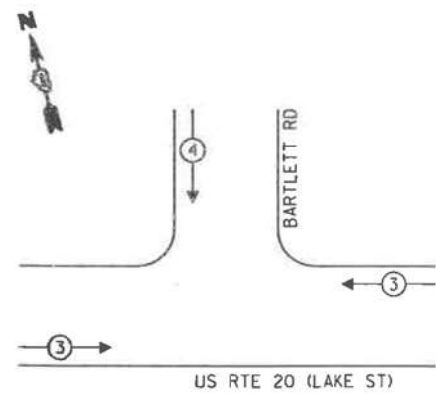
LEGEND:

- ← (⊛) ← PROTECTED PHASE
- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊛) ← PEDESTRIAN PHASE
- ← (⊙) ← OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
TOTAL =				263.9

ENERGY COSTS TO:

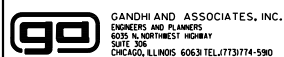
VILLAGE OF BARTLETT
228 S. MAIN STREET
BARTLETT, IL 60103

ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	90
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\089-US Rte 20 at Bartlett Rd_CD.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
505 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60659 TEL: (773) 774-5900

DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #31
US RTE 20 (LAKE ST) AT BARTLETT RD CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

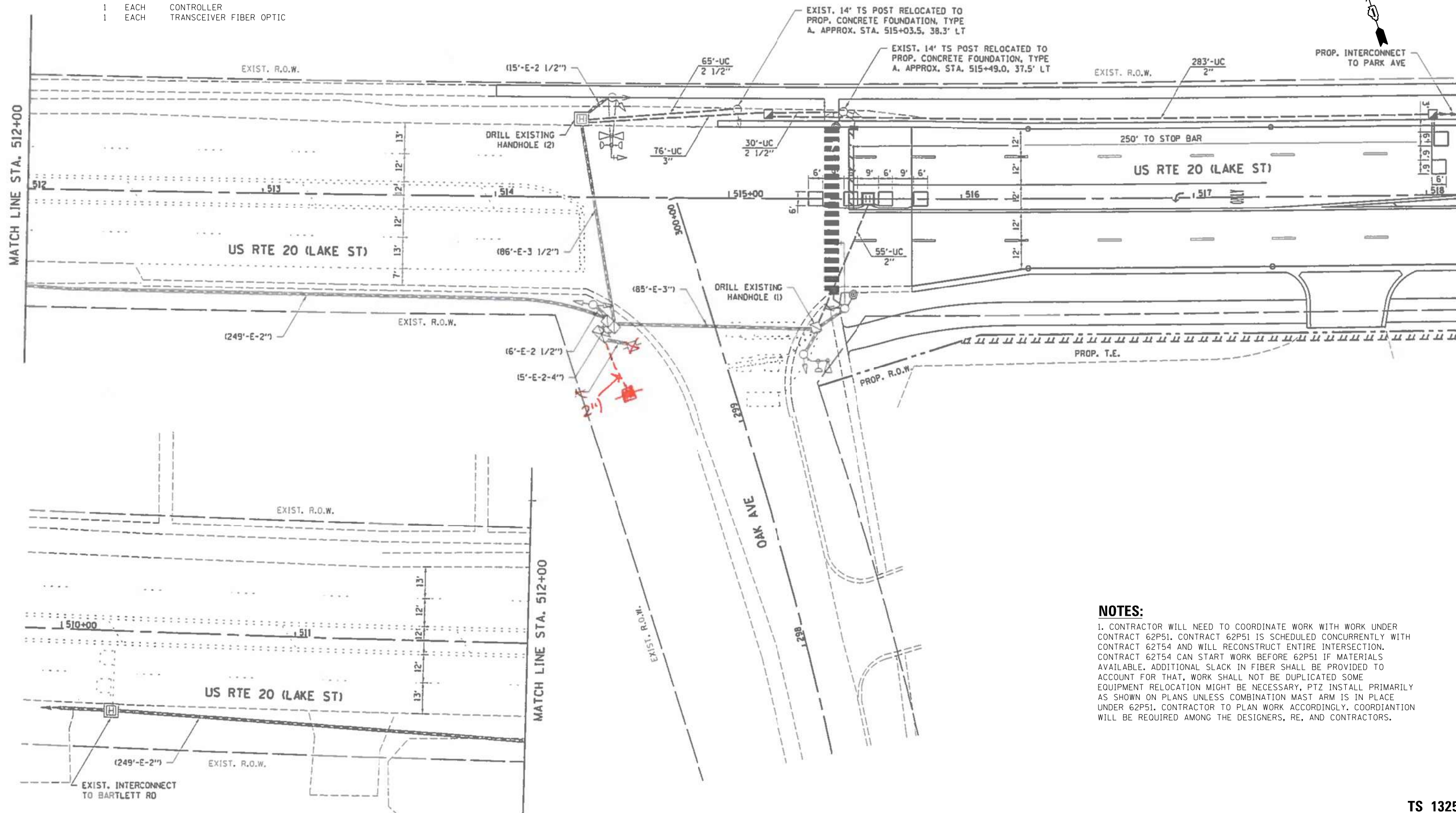
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	105
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 11270
IDOT TACTICS
FORMER EAGLE 5F

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC



NOTES:

1. CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62P51. CONTRACT 62P51 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62P51 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62P51. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

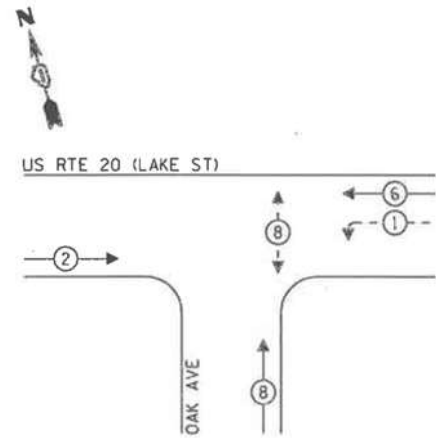
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 1325
IDOT TACTICS
FORMER EAGLE 5F**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\090.US Rte 20 at Oak Ave.INT.dgn

	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #32 US RTE 20 (LAKE ST) AT OAK AVE INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -					VAR	2023 TRAFFIC 02	VARIOUS	306	106
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -	REVISED -	SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			

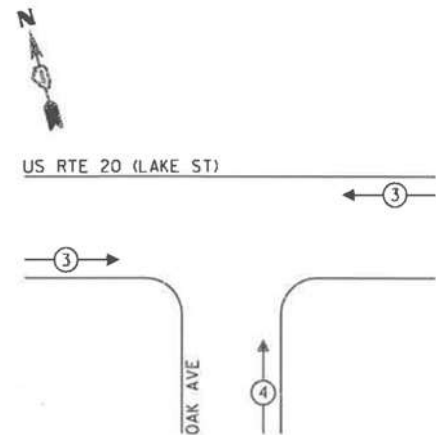
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



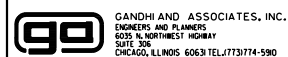
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
PERMISSIVE ARROW	4	10	10	8.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
TOTAL =				303.9

ENERGY COSTS TO:

VILLAGE OF BARTLETT
228 S MAIN STREET
BARTLETT, IL 60103

ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: (630-424-5704)
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



USER NAME = \$USER\$
DESIGNED - EA
DRAWN - EA, AV
PLOT SCALE = 40.0000' / 1" IN.
CHECKED - MS
PLOT DATE = \$DATE\$

REVISED -
REVISED -
REVISED -
REVISED -
DATE - 10/31/2022

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

US RTE 20 (LAKE ST)

EX. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

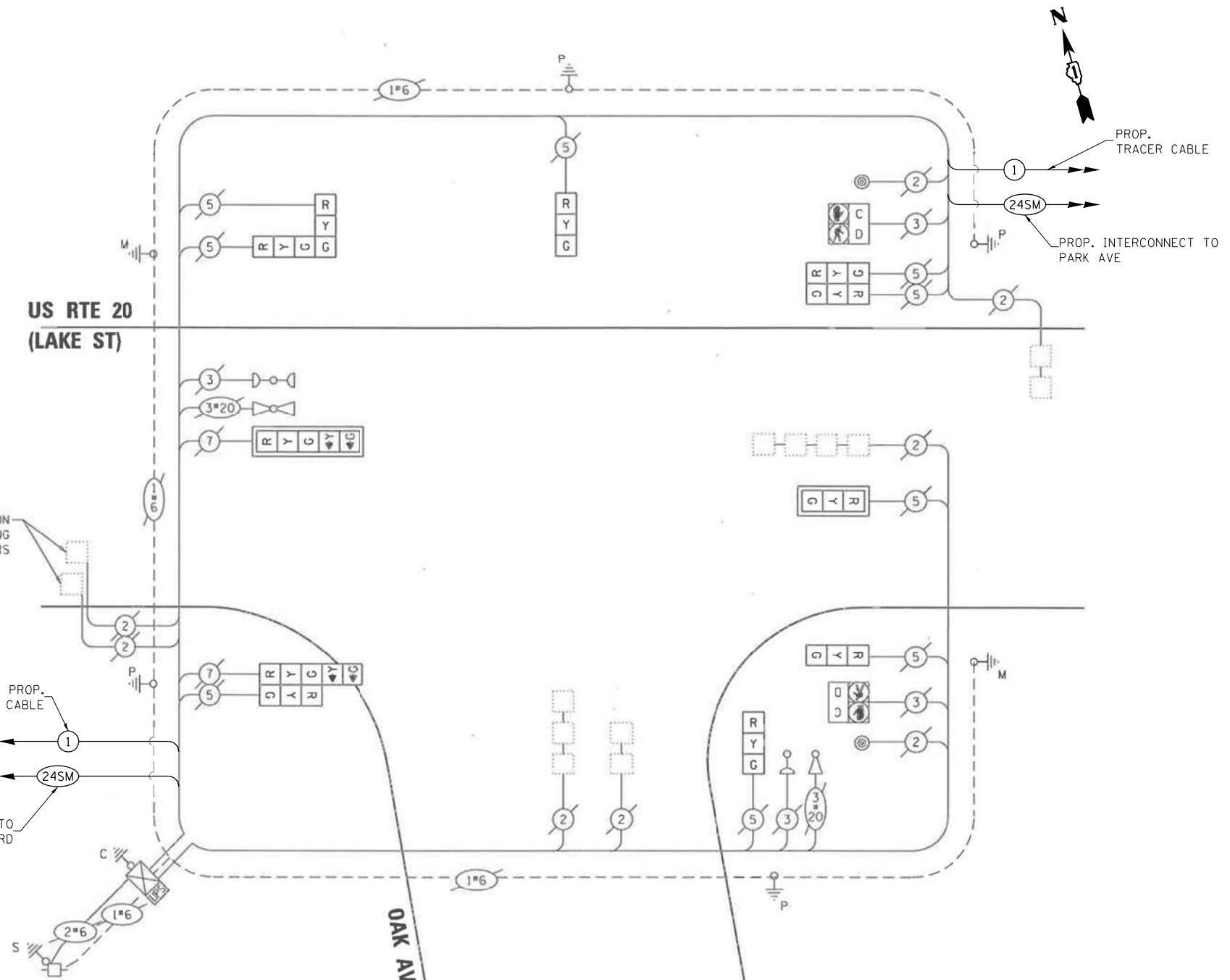
PROP. TRACER CABLE

1

24SM

PROP. INTERCONNECT TO BARTLETT RD

CABLE PLAN (NOT TO SCALE)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #32
US RTE 20 (LAKE ST) AT OAK AVE CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	107
CONTRACT NO. 62T54			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

TS 1325
IDOT TACTICS
FORMER EAGLE 5F



REMOVAL AND RELOCATION NOTES:

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

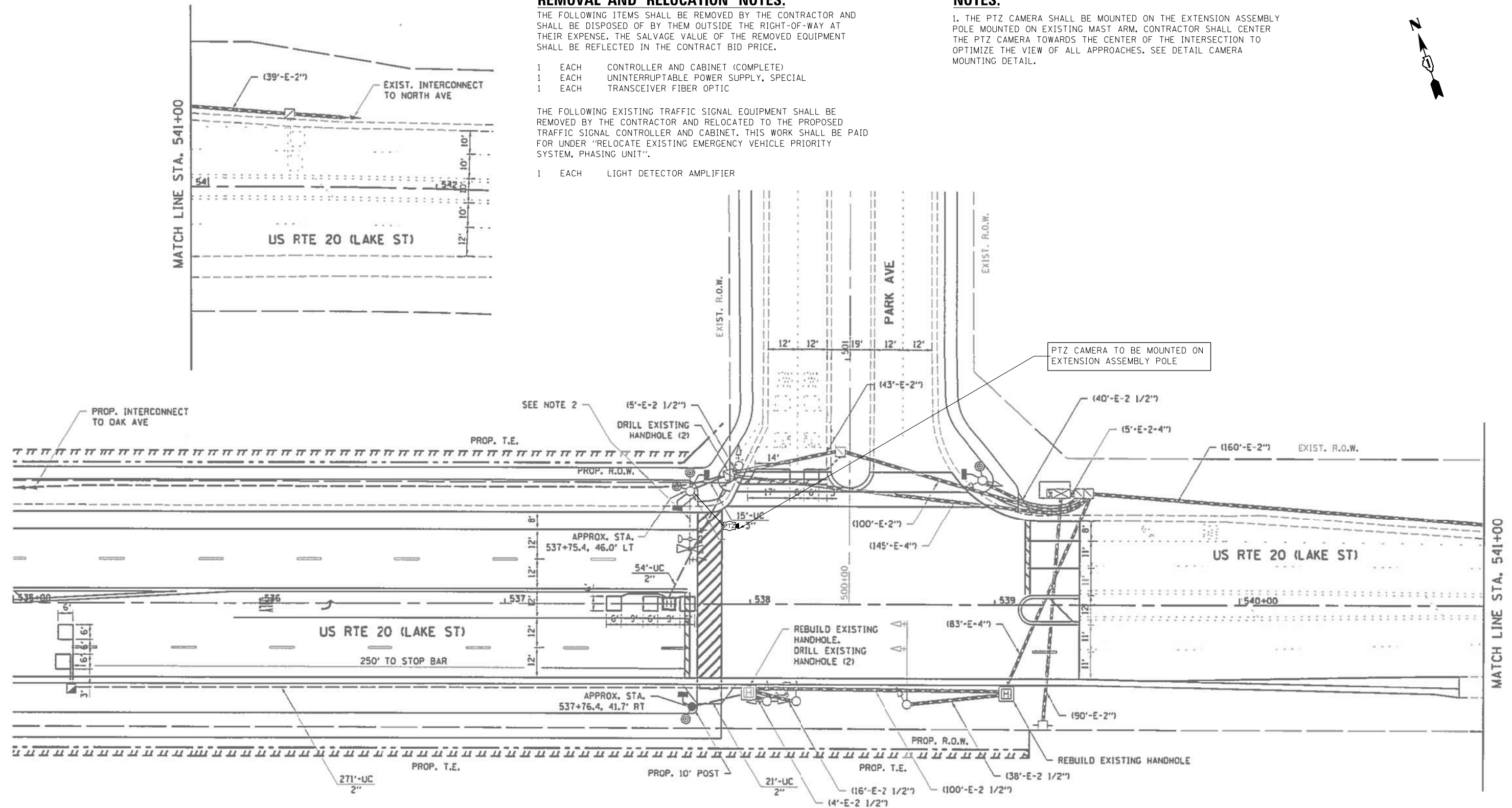
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

- 1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 1330
IDOT TACTICS
FORMER EAGLE 5F**

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\02.US Rte 20 at Park Ave..INT.dgn

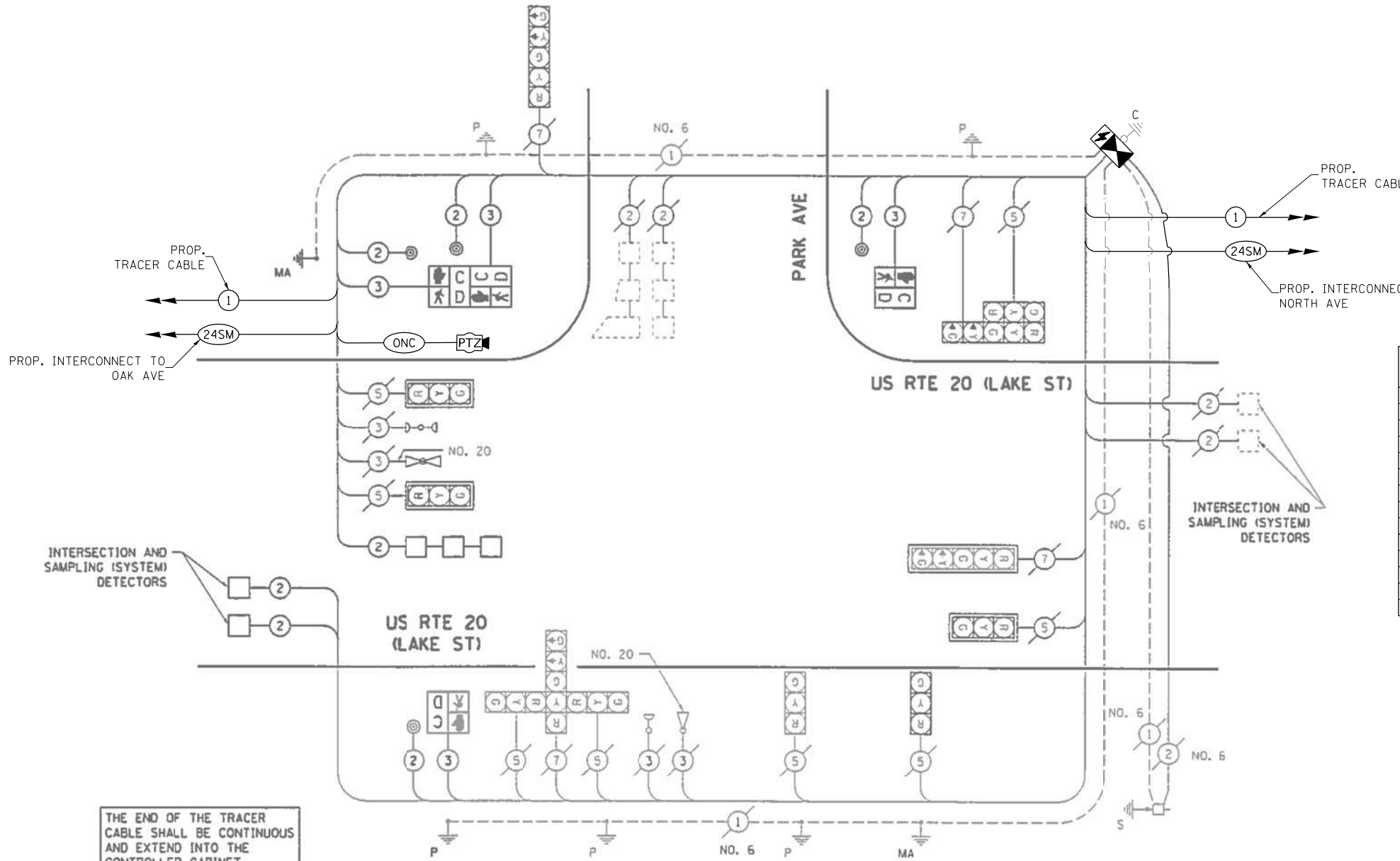


USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISOR -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISIONS -
PLOT DATE = \$DATE*		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION #33	
US RTE 20 (LAKE ST) AT PARK AVE INTERSECTION PLAN	
SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	108
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



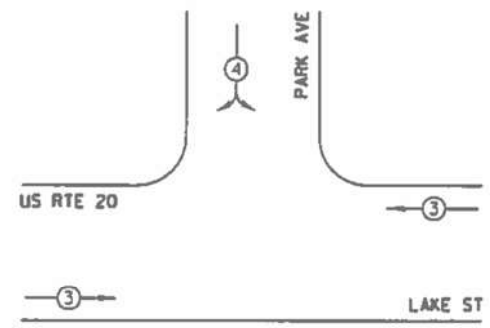
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

CABLE PLAN

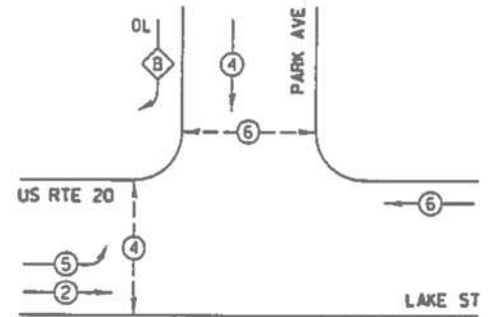
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	7
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	236
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED CONTROLLER SEQUENCE



PROP. PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↗

**TS 1330
IDOT TACTICS
FORMER EAGLE 5F**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\03_US_Rte_20_at_Park_Ave_CD.dgn

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND. LED	% OPERATION		
SIGNAL (RED)	12	17	0.50	102.00	
(YELLOW)	12	25	0.25	75.00	
(GREEN)	12	15	0.25	45.00	
ARROW	8	12	0.10	9.60	
PED. SIGNAL	4	25	1.00	100.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN	-	25	0.05	-	
VIDEO SYSTEM	-	150	1.00	-	
FLASHER			0.50		
ENERGY COSTS TO:			TOTAL =	431.60	

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: (630) 424-5704
COMPANY: COMED

	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #33
US RTE 20 (LAKE ST) AT PARK AVE CABLE PLAN**
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

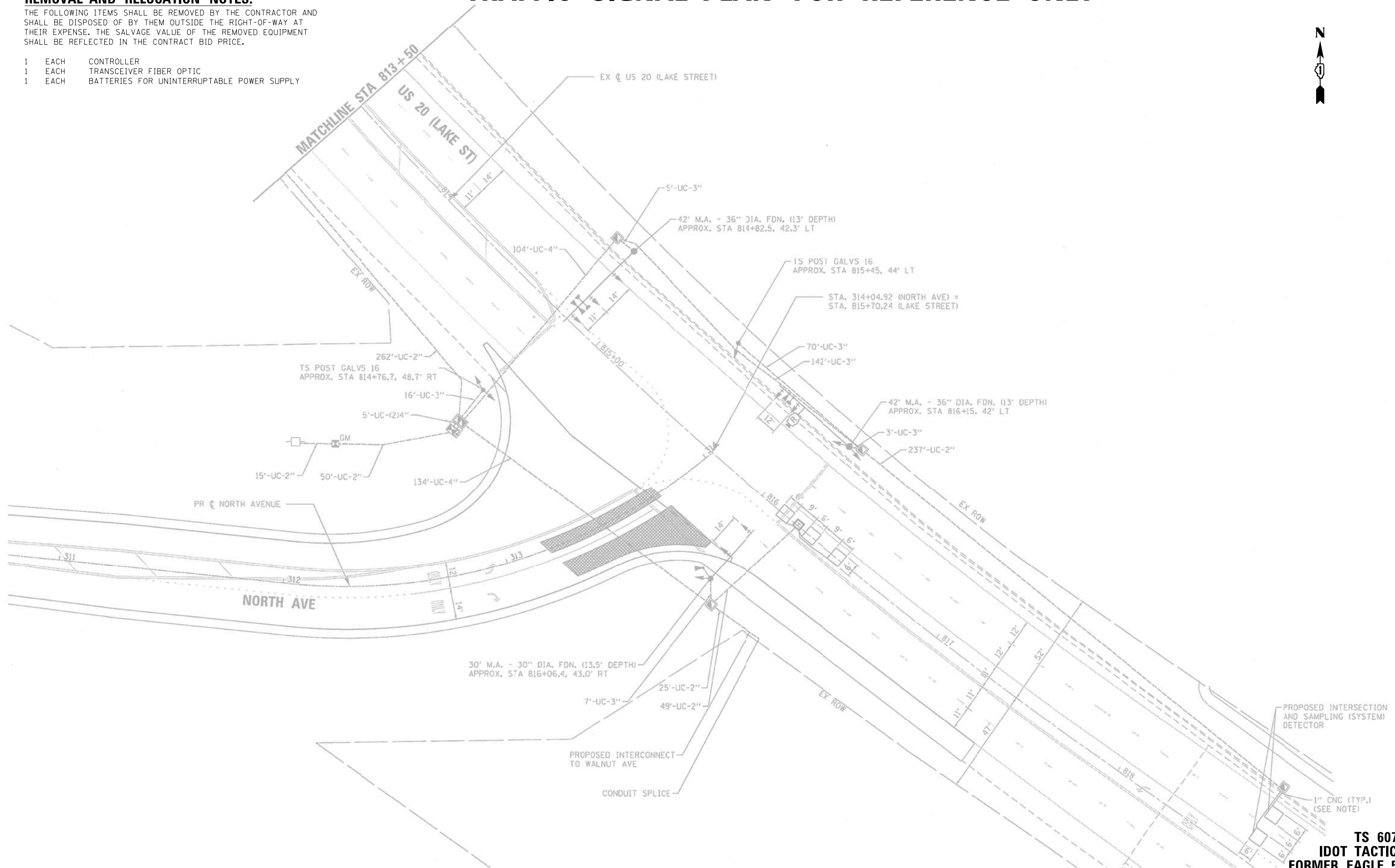
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	109
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

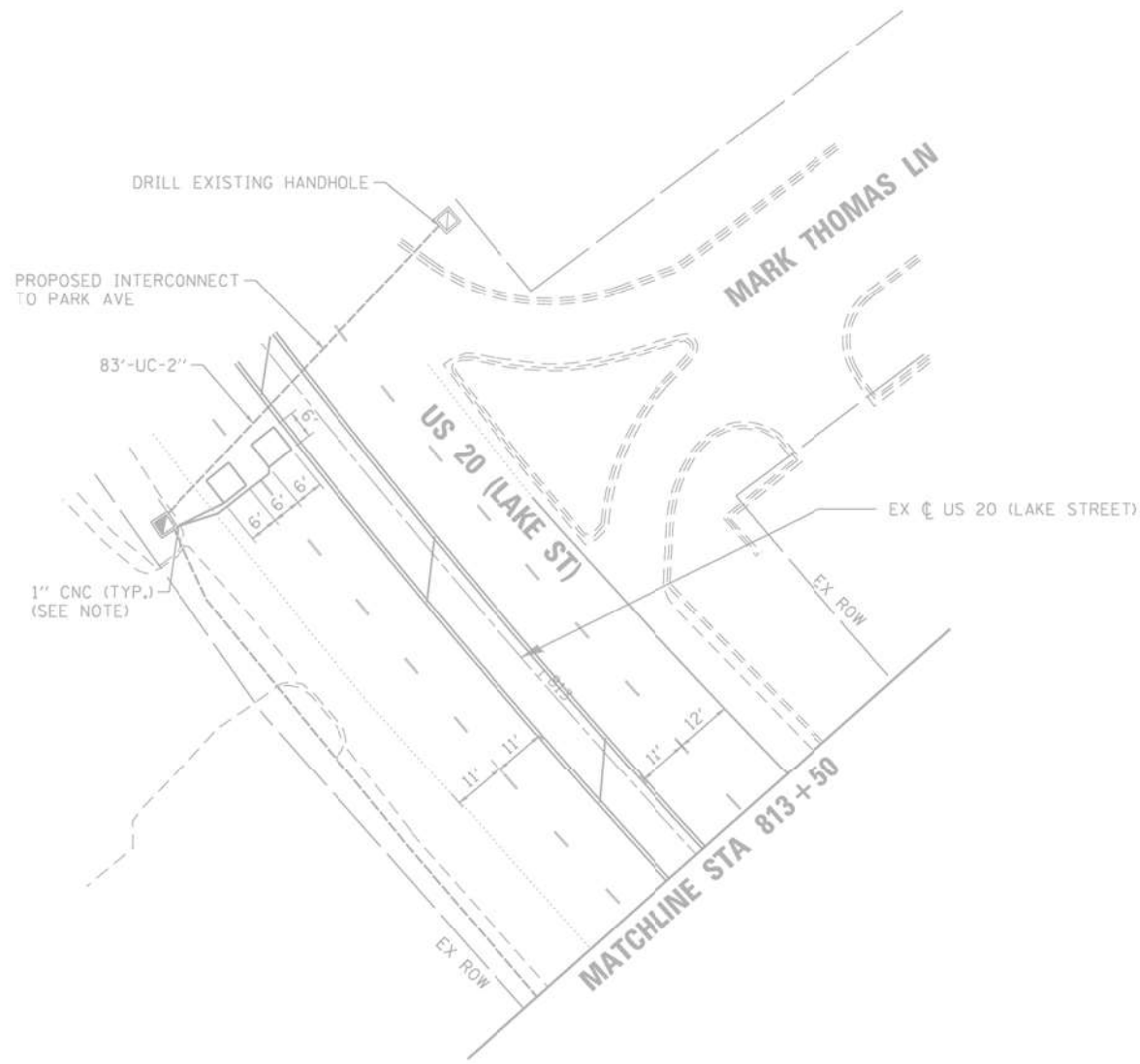
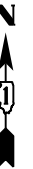
**LOCATION #34
US RTE 20 (LAKE ST) AT NORTH AVE INTERSECTION PLAN SHEET 1**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

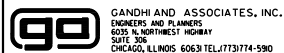
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	110
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 6077
IDOT TACTICS
FORMER EAGLE 5F**

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\095.US Rte 20 at North Ave.INT.2.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

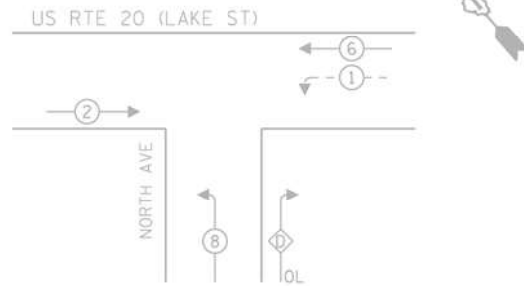
**LOCATION #34
US RTE 20 (LAKE ST) AT NORTH AVE INTERSECTION PLAN SHEET 2**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

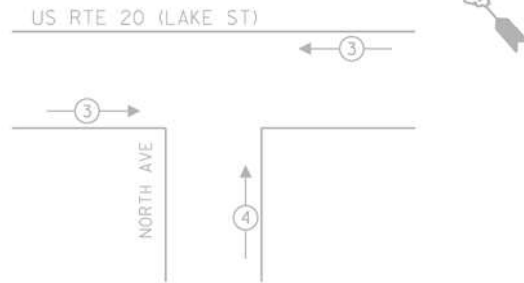
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	111
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 6077
IDOT TACTICS
FORMER EAGLE 5F**

CONTROLLER SEQUENCE



**EMERGENCY VEHICLE
PREEMPTION SEQUENCE**

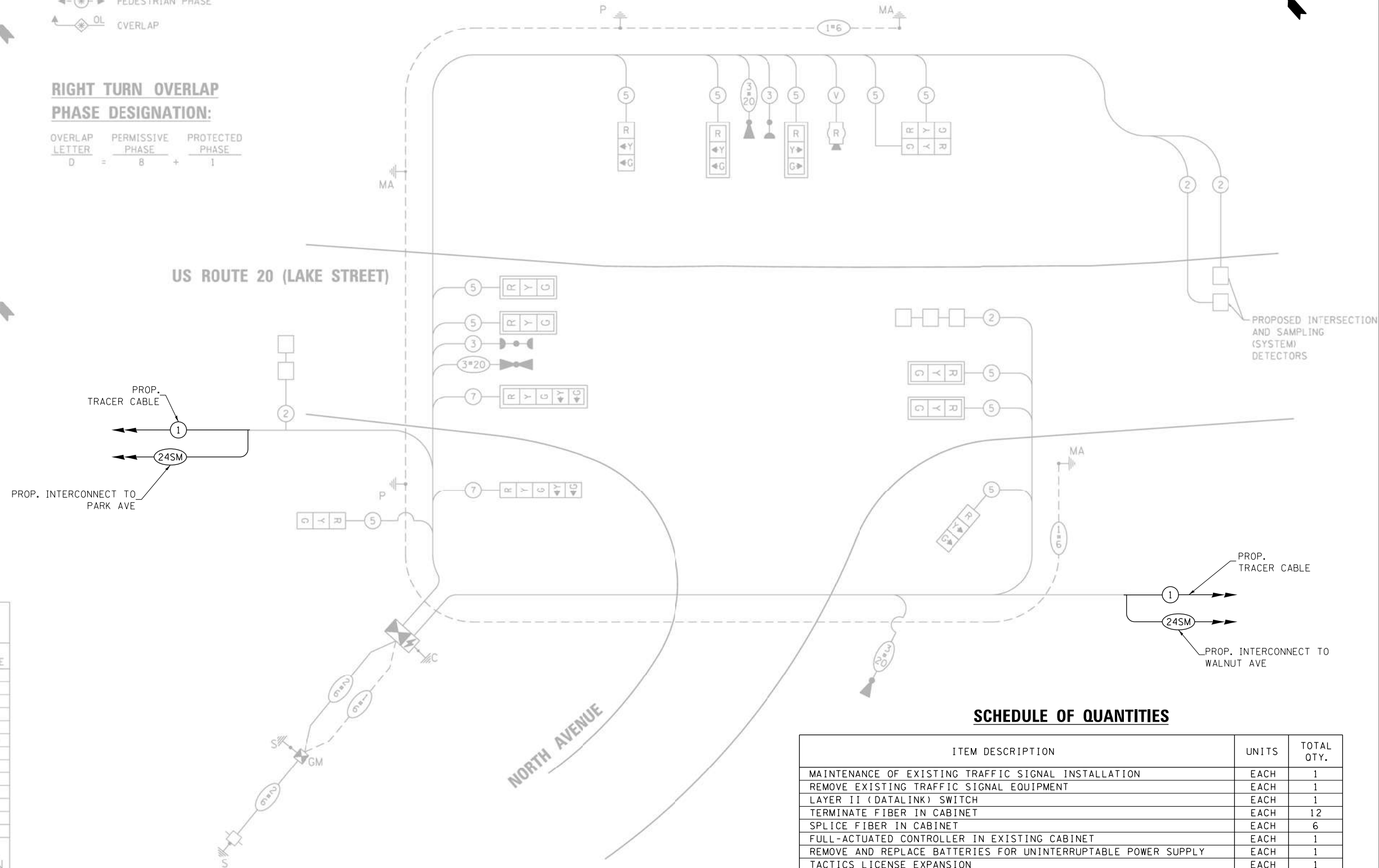


LEGEND:

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

**RIGHT TURN OVERLAP
PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	8	1



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				283.7

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W. CENTER COURT
 SCHAUMBURG, IL 60196
 ENERGY SUPPLY: CONTACT: AARON BABU
 PHONE: (708) 683-9348
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

CABLE PLAN

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\096-US Rte 20 at North Ave.CADD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #34
US RTE 20 (LAKE ST) AT NORTH AVE CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	112
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 6077
IDOT TACTICS
FORMER EAGLE 5F**

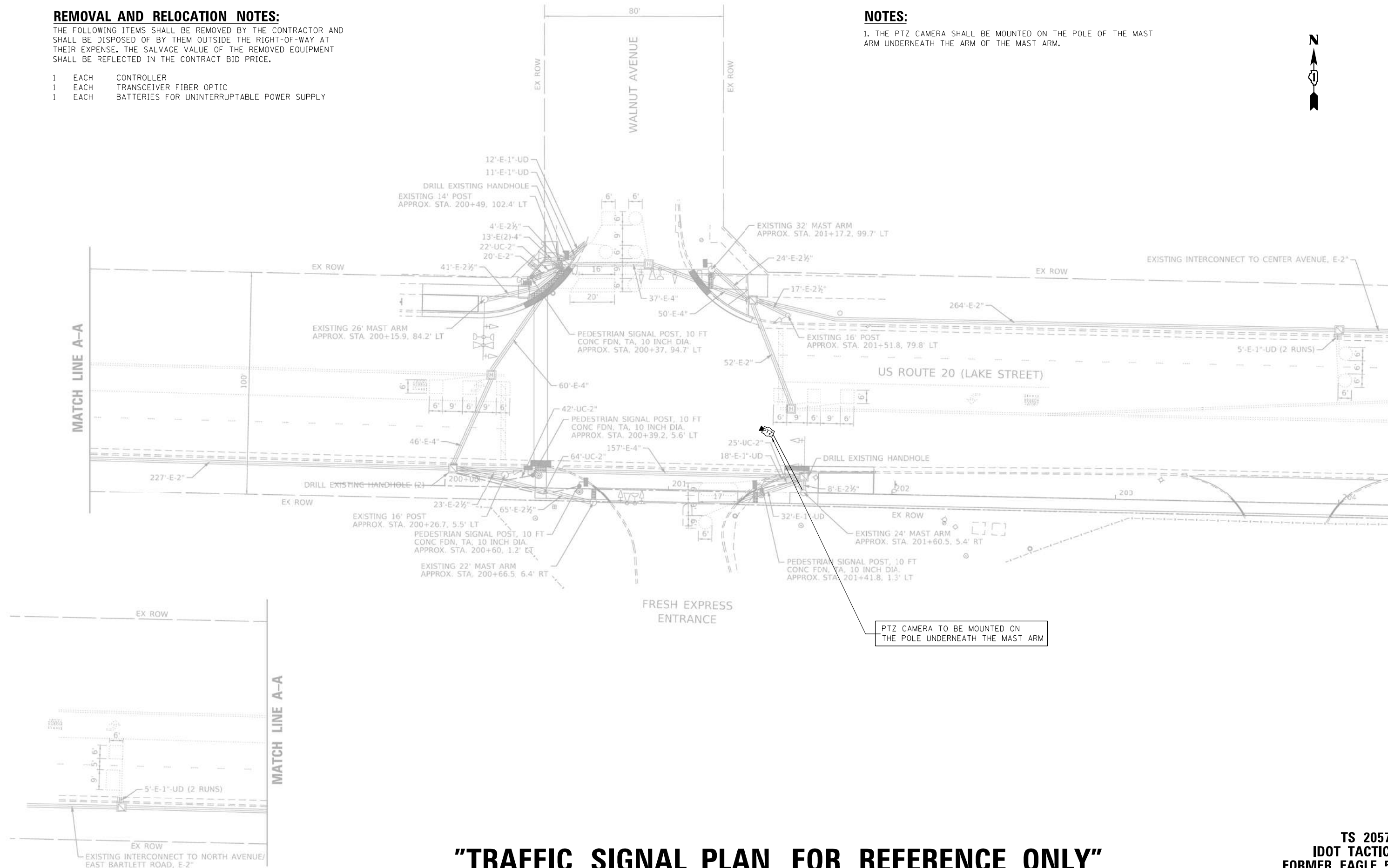
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

NOTES:

- 1. THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 20575
IDOT TACTICS
FORMER EAGLE 5F**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\097-US Rte 20 at Walnut Ave_INT.dgn



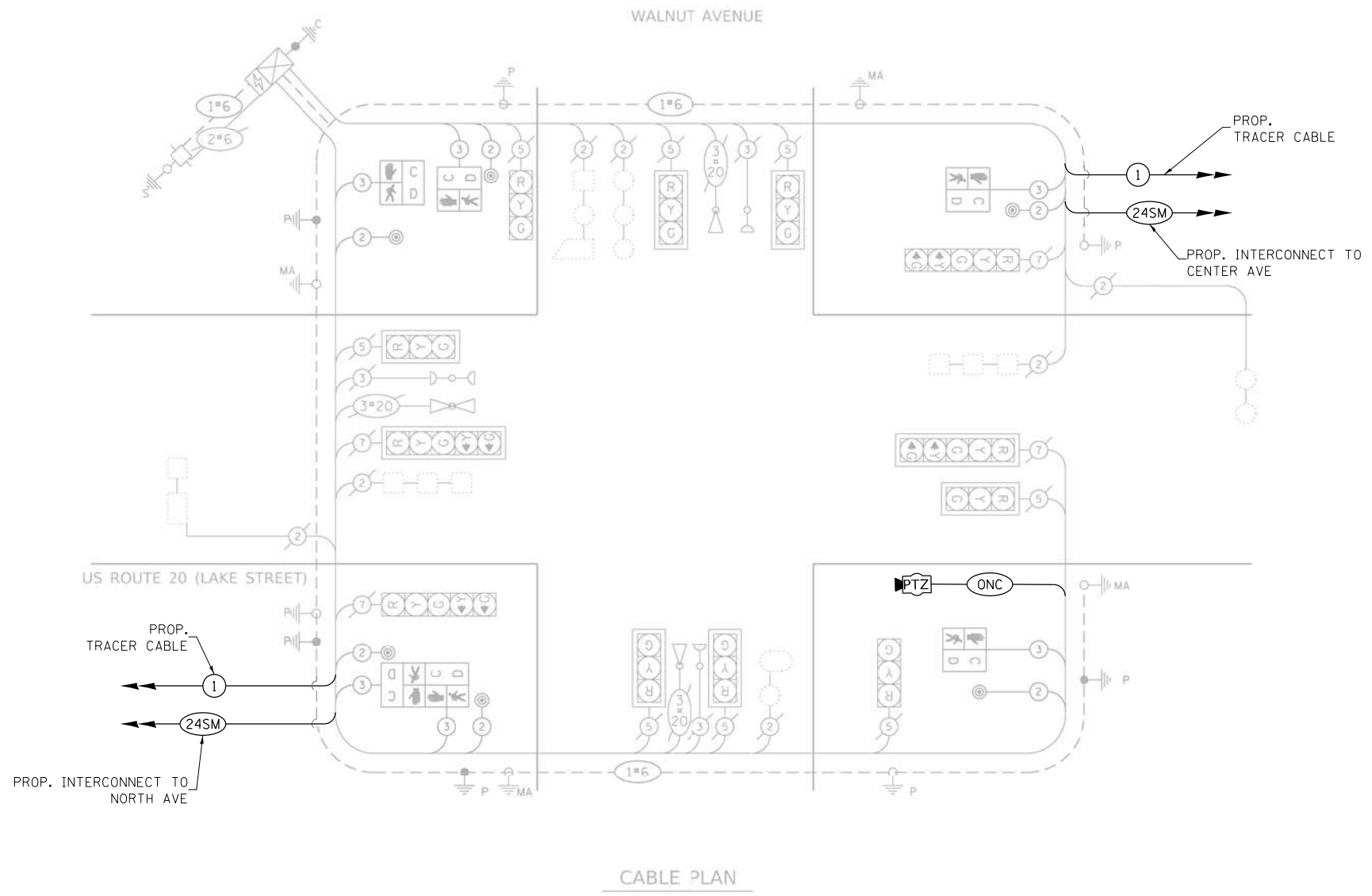
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PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE*	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #35
US RTE 20 (LAKE ST) AT WALNUT AVE INTERSECTION PLAN**

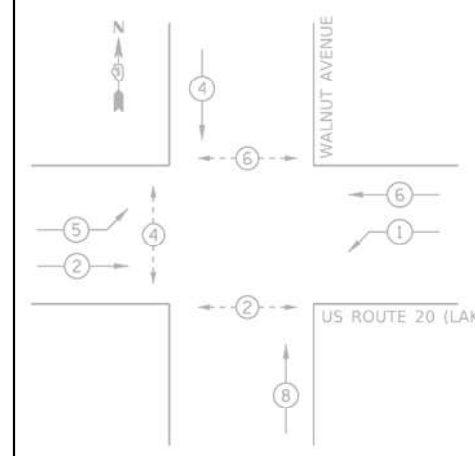
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC Q2	VARIOUS	306	113
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	



CABLE PLAN

PROPOSED CONTROLLER SEQUENCE



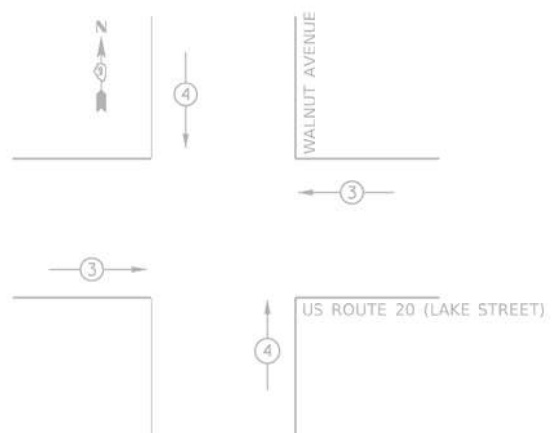
- LEGEND:
- ⊕ DUAL ENTRY PHASE
 - ⊕ OVERLAP
 - ⊕ PEDESTRIAN PHASE
 - NUMBER REFERRING TO ASSOCIATED PHASE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	50	102.0
(YELLOW)	12	25	25	75.0
(GREEN)	12	15	25	45.0
PERMISSIVE ARROW	8	12	10	9.6
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				476.6

ENERGY COSTS TO:
 VILLAGE OF HANOVER PARK
 2121 W. LAKE ST
 HANOVER PARK, IL 60133
 ENERGY SUPPLY: CONTACT: AARON BABU
 PHONE: 708-683-9348
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	369
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATE CONTROLLER IN EXISTING CABINET	EACH	1
POWER OVER ETHERNET EXTENDER	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\08-US Rte 20 at Walnut Ave.Caddgn

	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #35
US RTE 20 (LAKE ST) AT WALNUT AVE CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

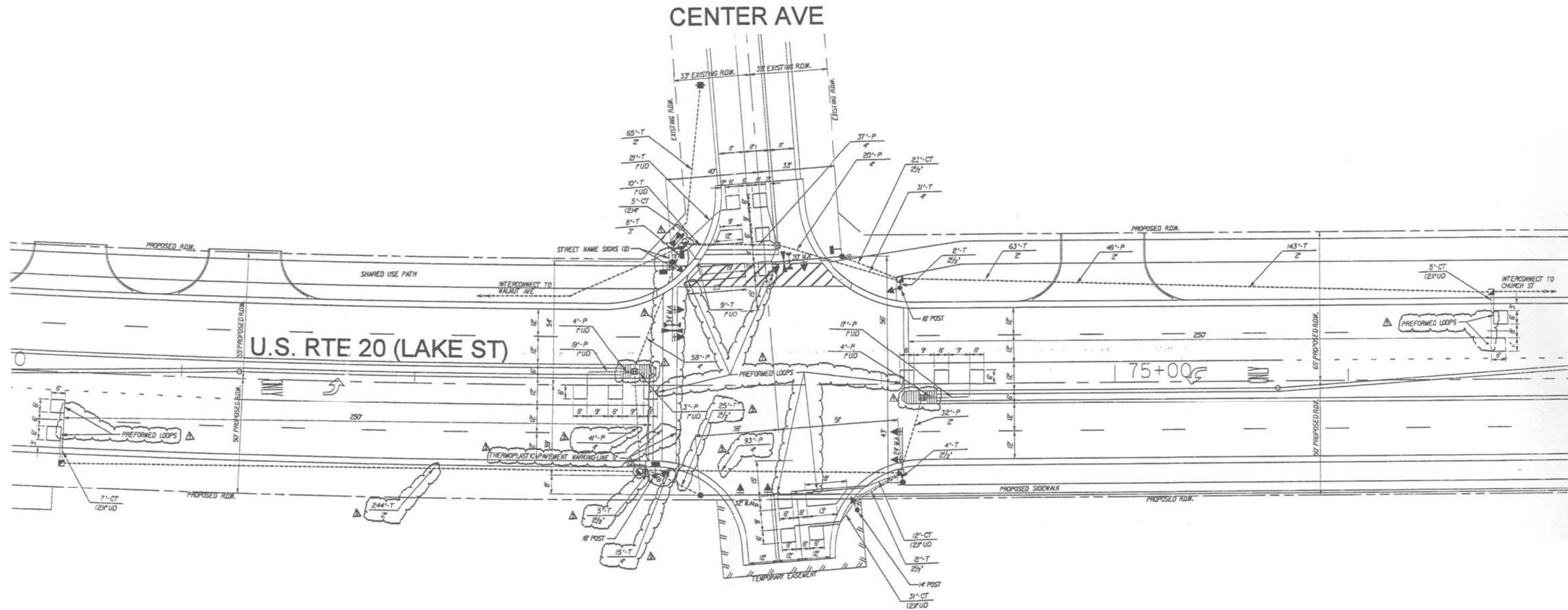
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	114
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 20575
IDOT TACTICS
FORMER EAGLE 5F**

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 13762
IDOT TACTICS
FORMER EAGLE 5F**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\099.US Rte 20 at Center Ave.INT.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER*	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISED -
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #36
US RTE 20 (LAKE ST) AT CENTER AVE INTERSECTION PLAN**

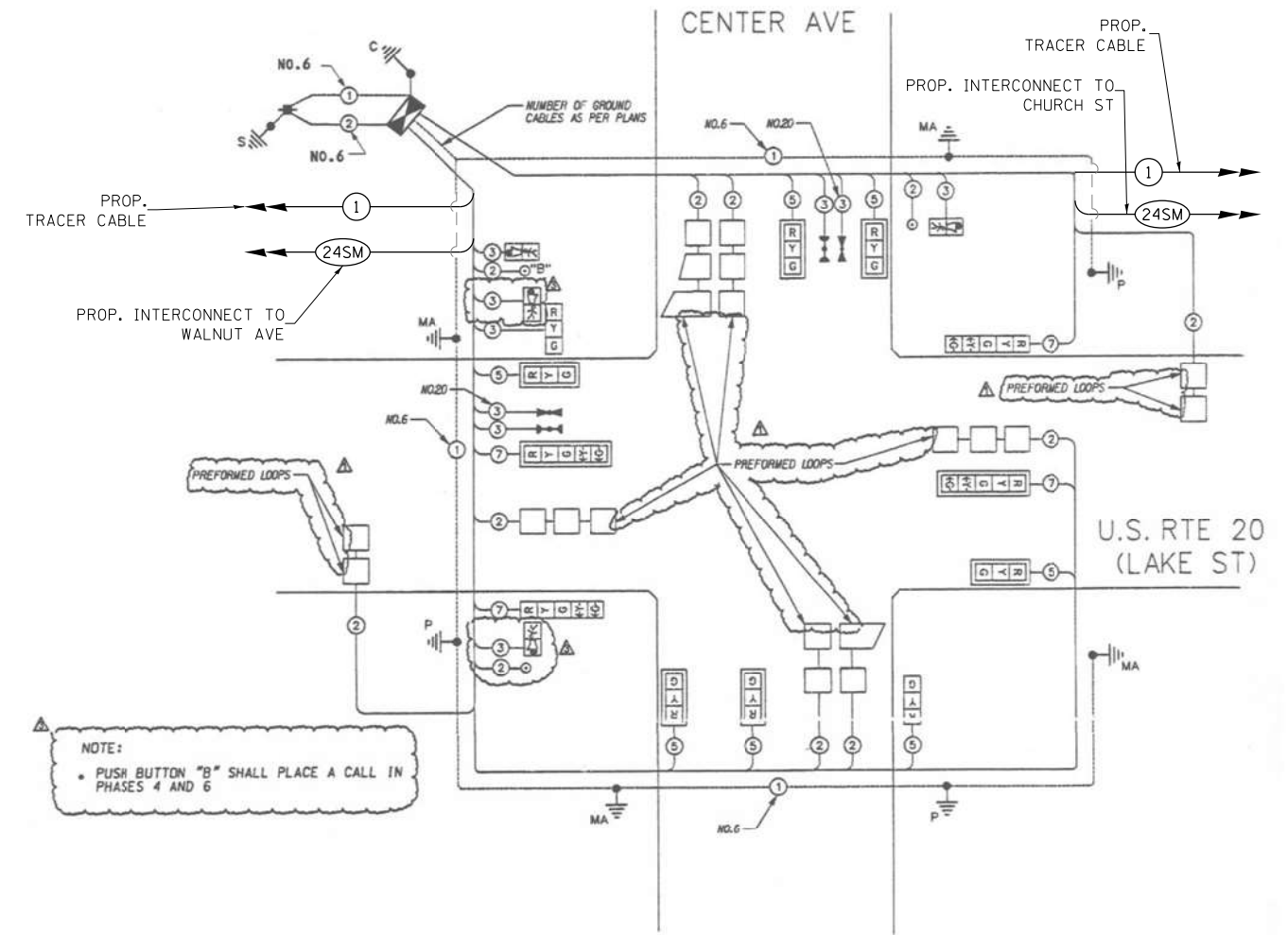
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	115
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

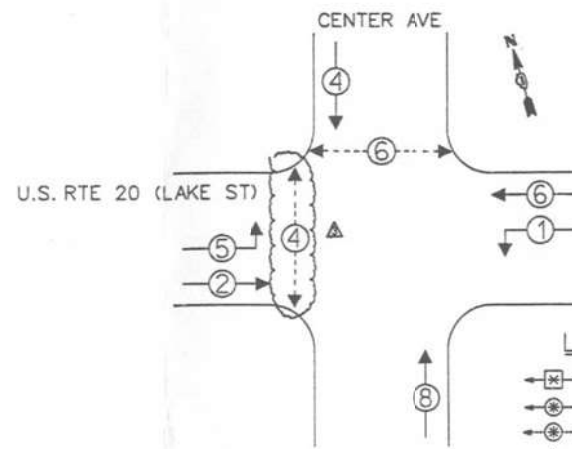
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

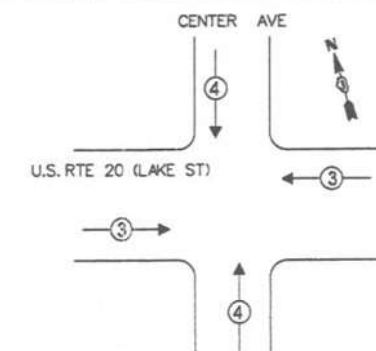
PROPOSED CABLE PLAN



CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- ⊠ SINGLE ENTRY PHASE
- ⊙ DUAL ENTRY PHASE
- ⊚ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED XX OPERATIONS		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	10
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	382

VILLAGE OF HANOVER PARK
2121 W. LAKE ST
HANOVER PARK, ILLINOIS 60133
ENERGY SUPPLY - CONTACT: JUDY KNELL
PHONE: (630) 691-4608
COMPANY: COMED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #36
US RTE 20 (LAKE ST) AT CENTER AVE CABLE PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	116
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT				

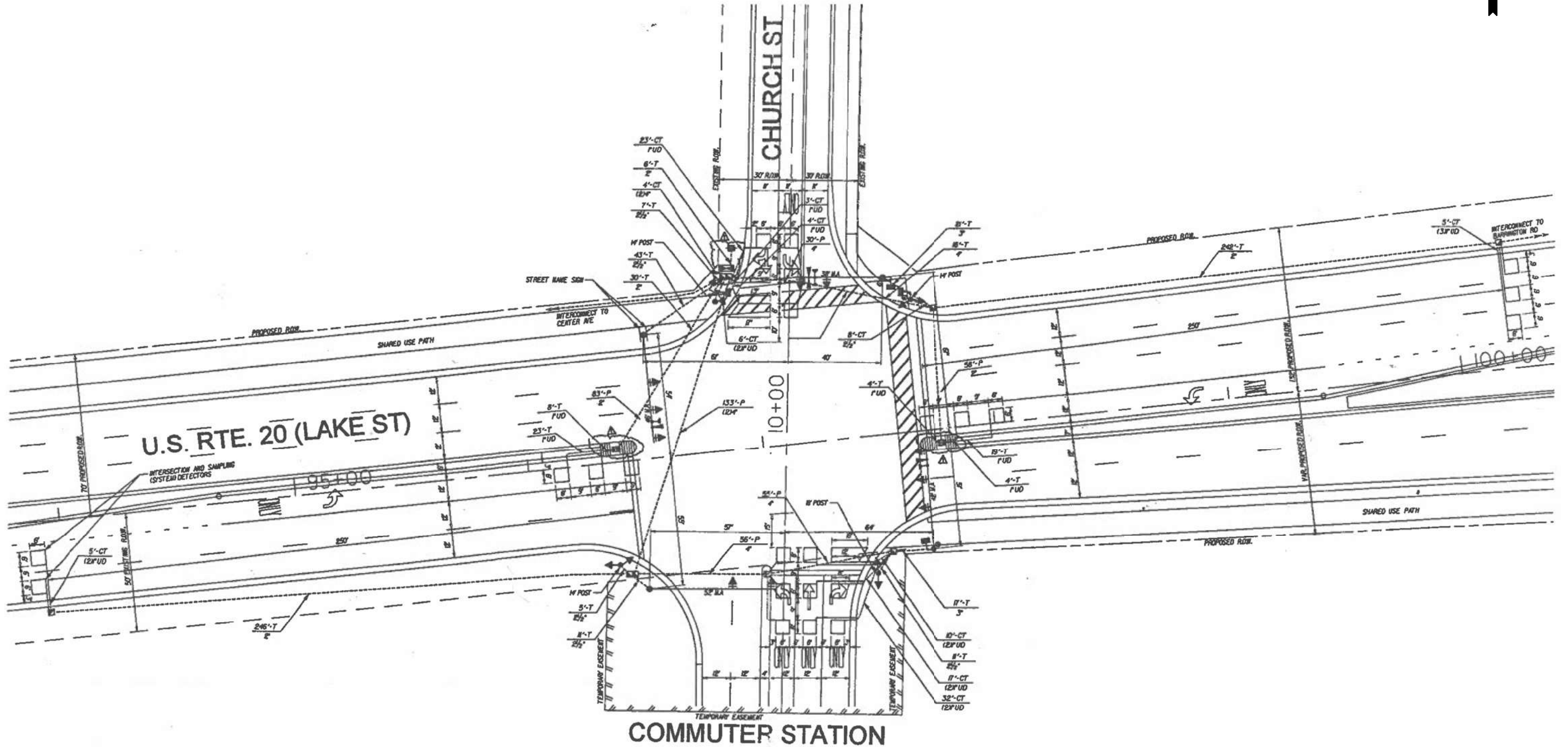
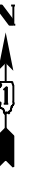
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD\Sheets\100-US Rte 20 at Center Ave.Caddgn

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

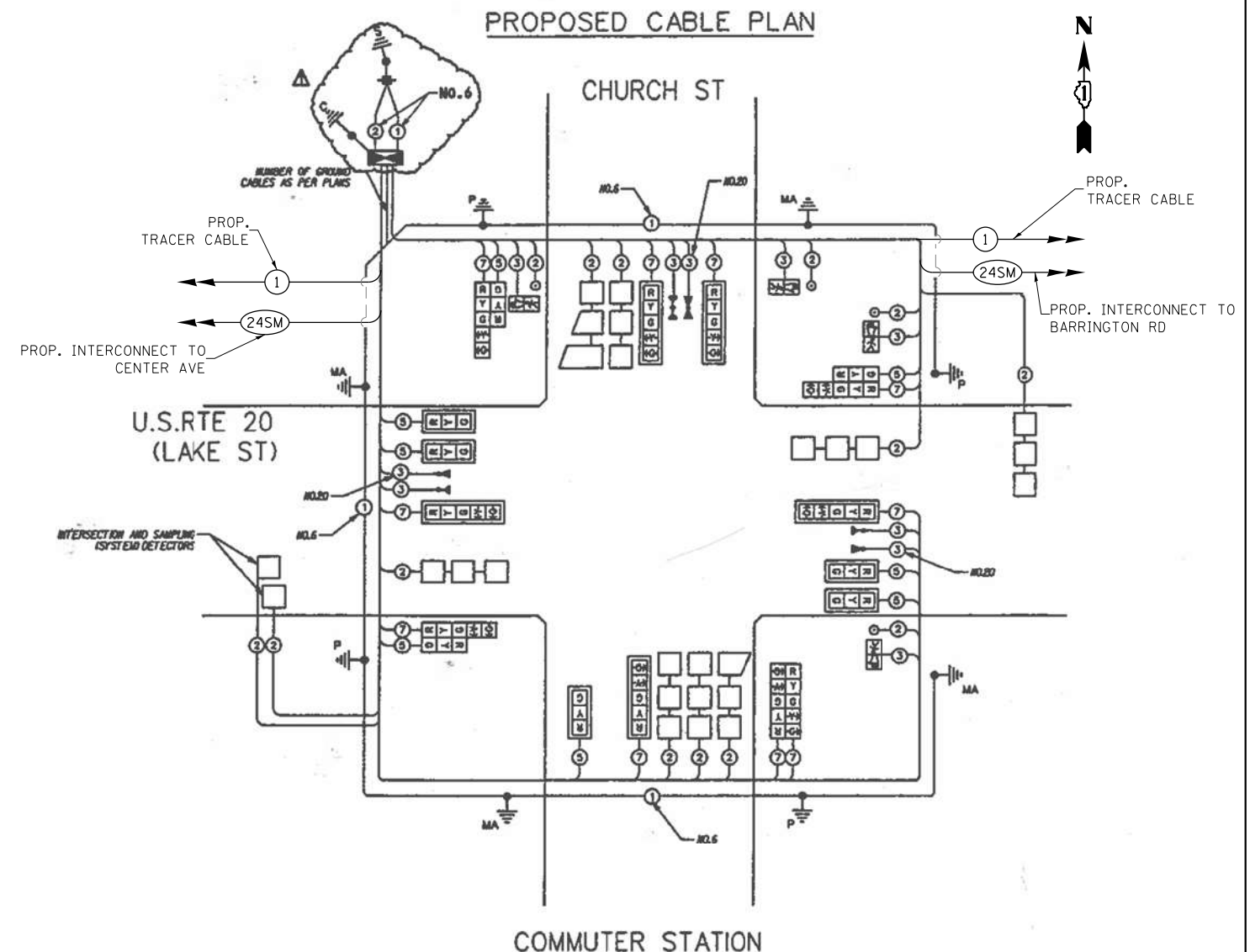
TS 13760
IDOT TACTICS
FORMER EAGLE 5F

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\01.US Rte 20 at Church St_INT.dgn

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER*	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #37 US RTE 20 (LAKE ST) AT CHURCH ST INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -					VAR	2023 TRAFFIC 02	VARIOUS	306	117
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

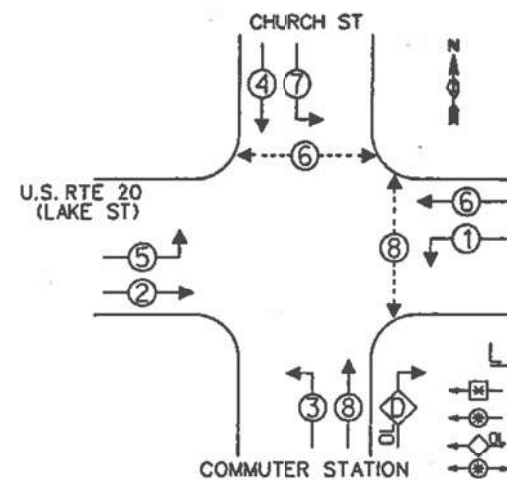
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1



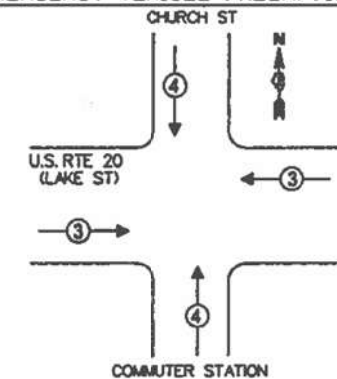
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PROTECTED PHASE
0	1

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

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

PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED % OPERATIONS		
SIGNAL (RED)	18	135	17	0.50	153
(YELLOW)	18	135	25	0.25	112.5
(GREEN)	18	135	15	0.25	67.5
ARROW	20	135	12	0.10	24
PED. SIGNAL	3	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	557

VILLAGE OF HANOVER PARK
2121 W. LAKE ST
HANOVER PARK, ILLINOIS 60133
ENERGY SUPPLY - CONTACT: JUDY KNELL
PHONE: (630) 691-4608
COMPANY: COMED



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #37
US RTE 20 (LAKE ST) AT CHURCH ST CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

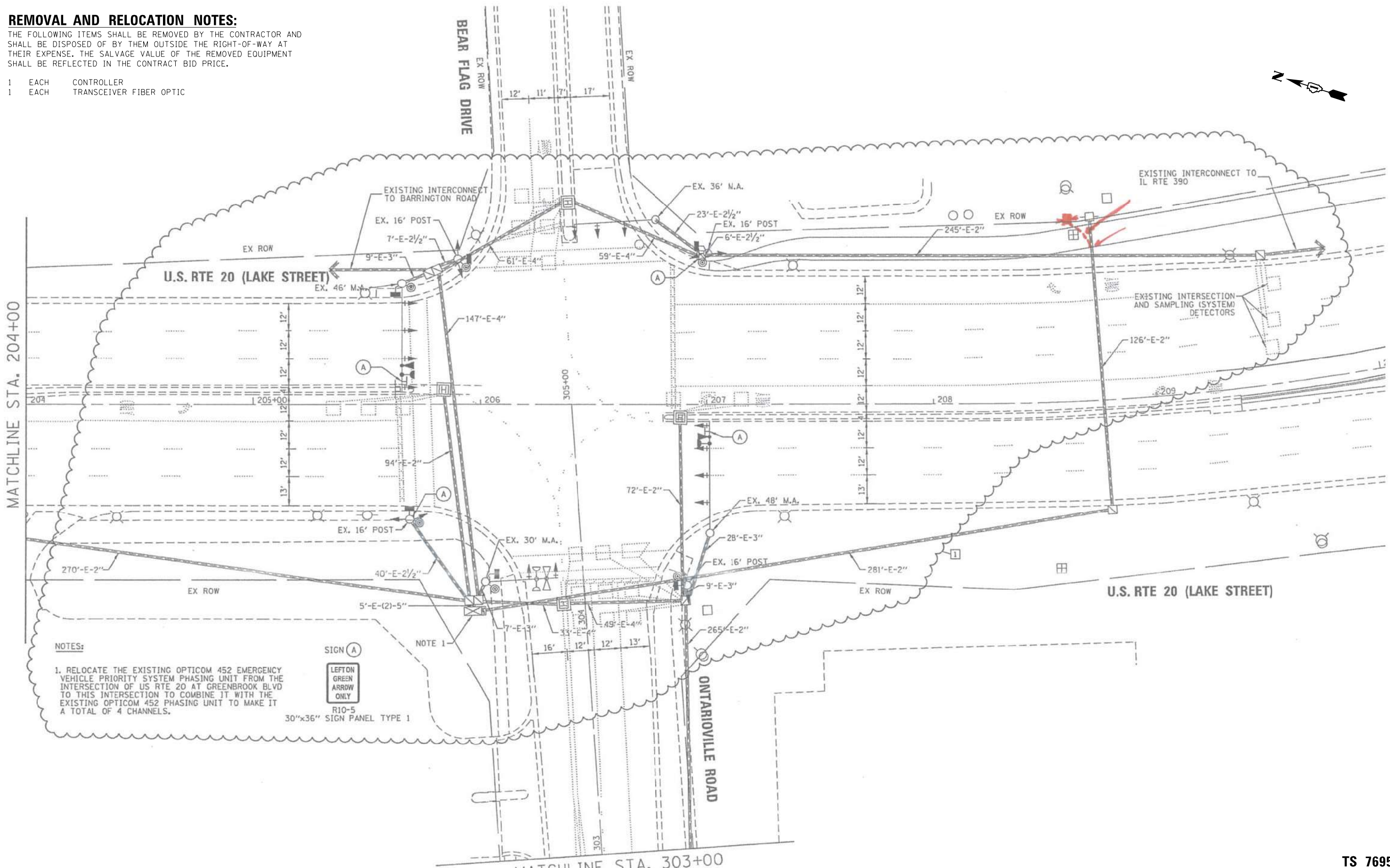
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	118
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 13760
IDOT TACTICS
FORMER EAGLE 5F

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC



NOTES:

1. RELOCATE THE EXISTING OPTICOM 452 EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT FROM THE INTERSECTION OF US RTE 20 AT GREENBROOK BLVD TO THIS INTERSECTION TO COMBINE IT WITH THE EXISTING OPTICOM 452 PHASING UNIT TO MAKE IT A TOTAL OF 4 CHANNELS.

SIGN (A)

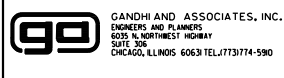


R10-5
30"x36" SIGN PANEL TYPE 1

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 7695
IDOT TACTICS
FORMER EAGLE 5F**

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\03.US Rte 20 at Bear Flag Dr-INT.dgn



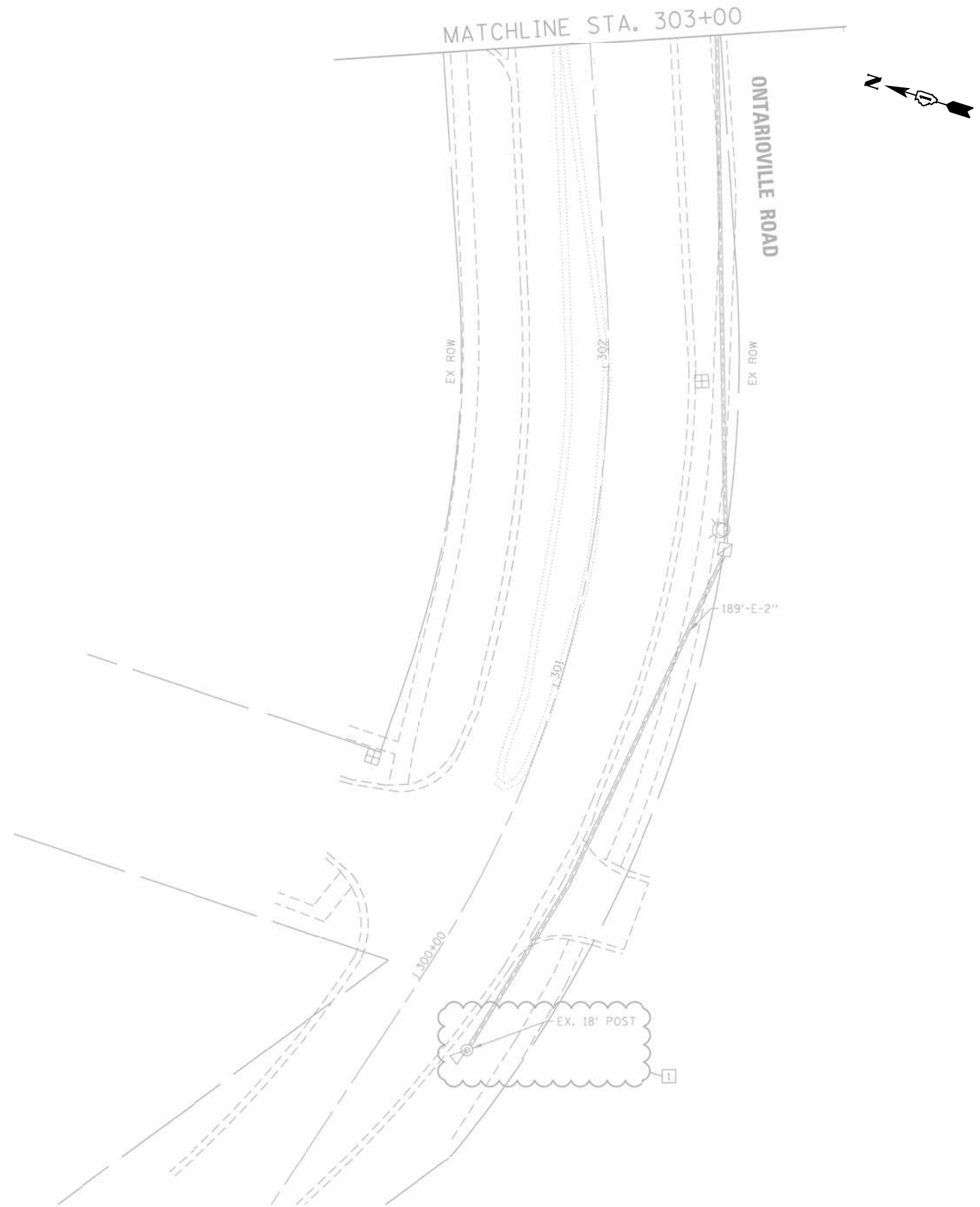
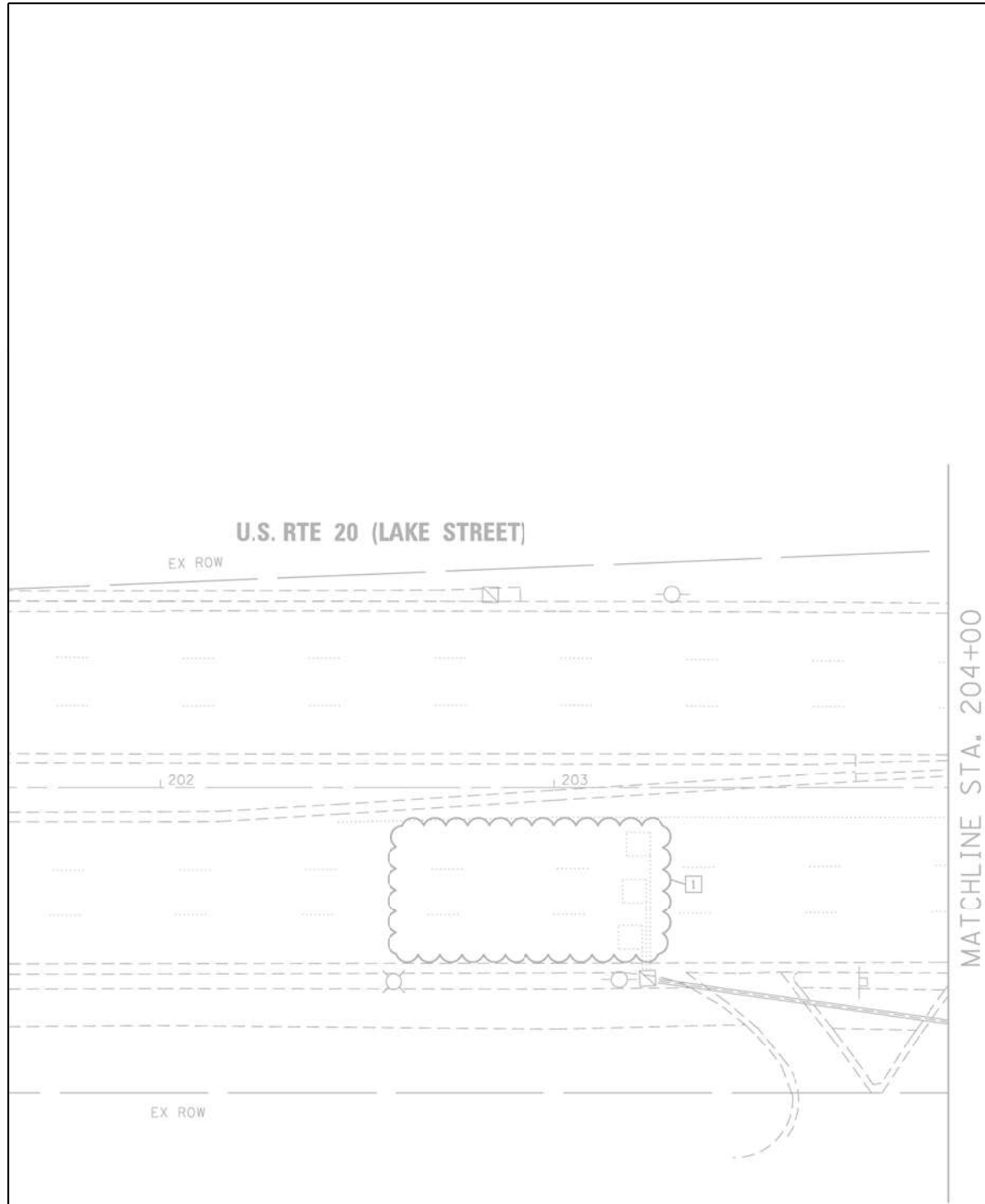
USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISOR -	REVISION -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISOR -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #38
US RTE 20 (LAKE ST) AT BEAR FLAG DR INTERSECTION PLAN SHEET 1**
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	119
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\04_US Rte 20 at Bear Flag Dr-INT_2.dgn



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 7695
IDOT TACTICS
FORMER EAGLE 5F

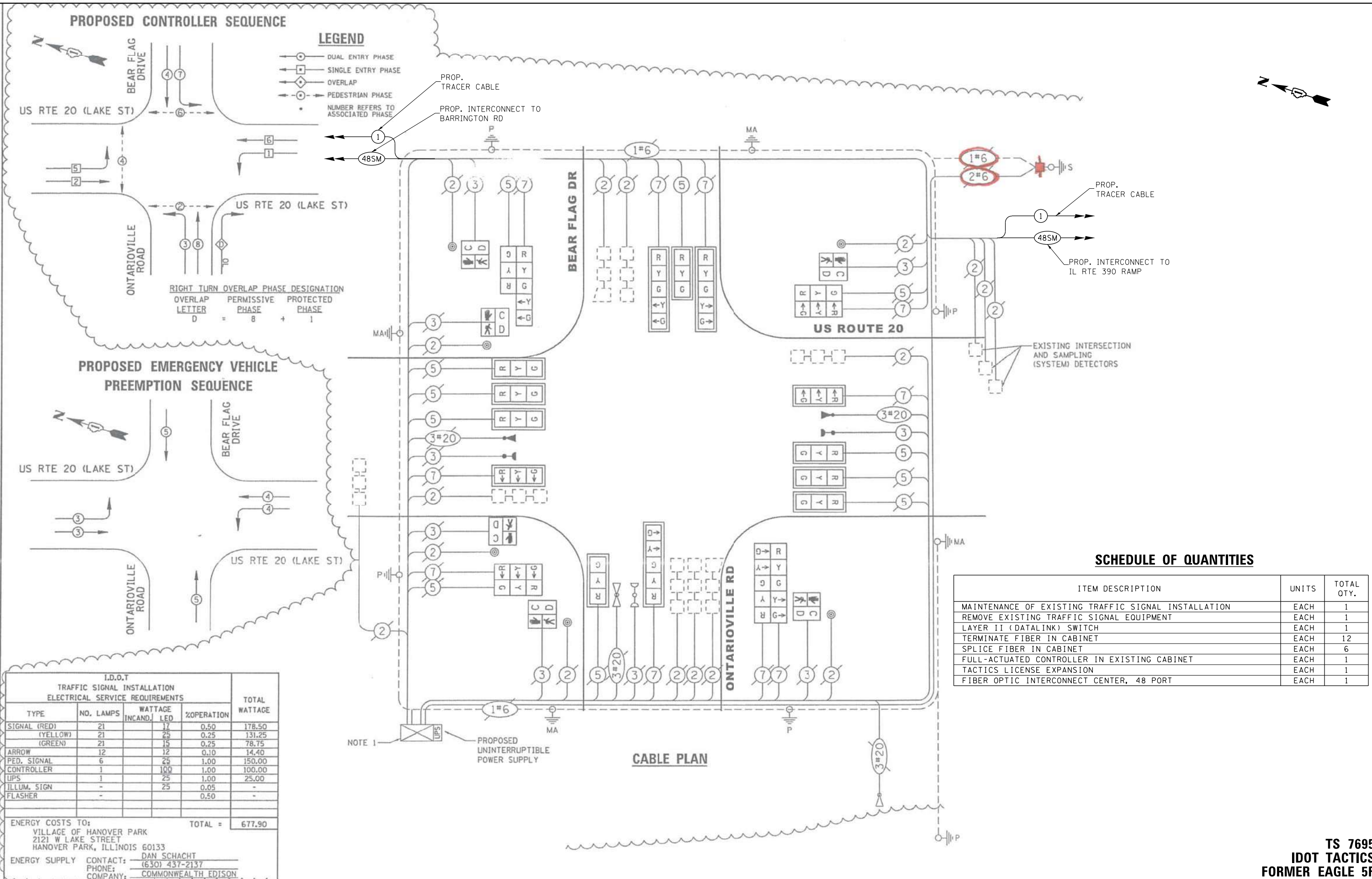
	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	DESIGNED - EA	REVISED -
	USER NAME = \$USER\$	DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #38			
US RTE 20 (LAKE ST) AT BEAR FLAG DR INTERSECTION PLAN SHEET 2			
SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	

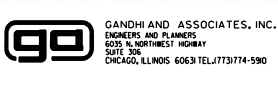
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC Q2	VARIOUS	306	120
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FILE NAME = K:\PROJECTS\Projects_2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\05.US Rte 20 at Bear Flag Dr-CD.dgn



I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. LED	%OPERATION	
SIGNAL (RED)	21	17	0.50	178.50
(YELLOW)	21	25	0.25	131.25
(GREEN)	21	15	0.25	78.75
ARROW	12	12	0.10	14.40
PED. SIGNAL	6	25	1.00	150.00
CONTROLLER	1	100	1.00	100.00
UPS	1	25	1.00	25.00
ILLUM. SIGN	-	25	0.05	-
FLASHER	-	-	0.50	-
ENERGY COSTS TO: VILLAGE OF HANOVER PARK 2121 W LAKE STREET HANOVER PARK, ILLINOIS 60133				TOTAL = 677.90
ENERGY SUPPLY CONTACT: DAN SCHACHT PHONE: (630) 437-2137 COMPANY: COMMONWEALTH EDISON				

SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



USER NAME = \$USERS\$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #38
US RTE 20 (LAKE ST) AT BEAR FLAG DR CABLE PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	121
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 7695
IDOT TACTICS
FORMER EAGLE 5F

REMOVAL AND RELOCATION NOTES:

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

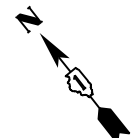
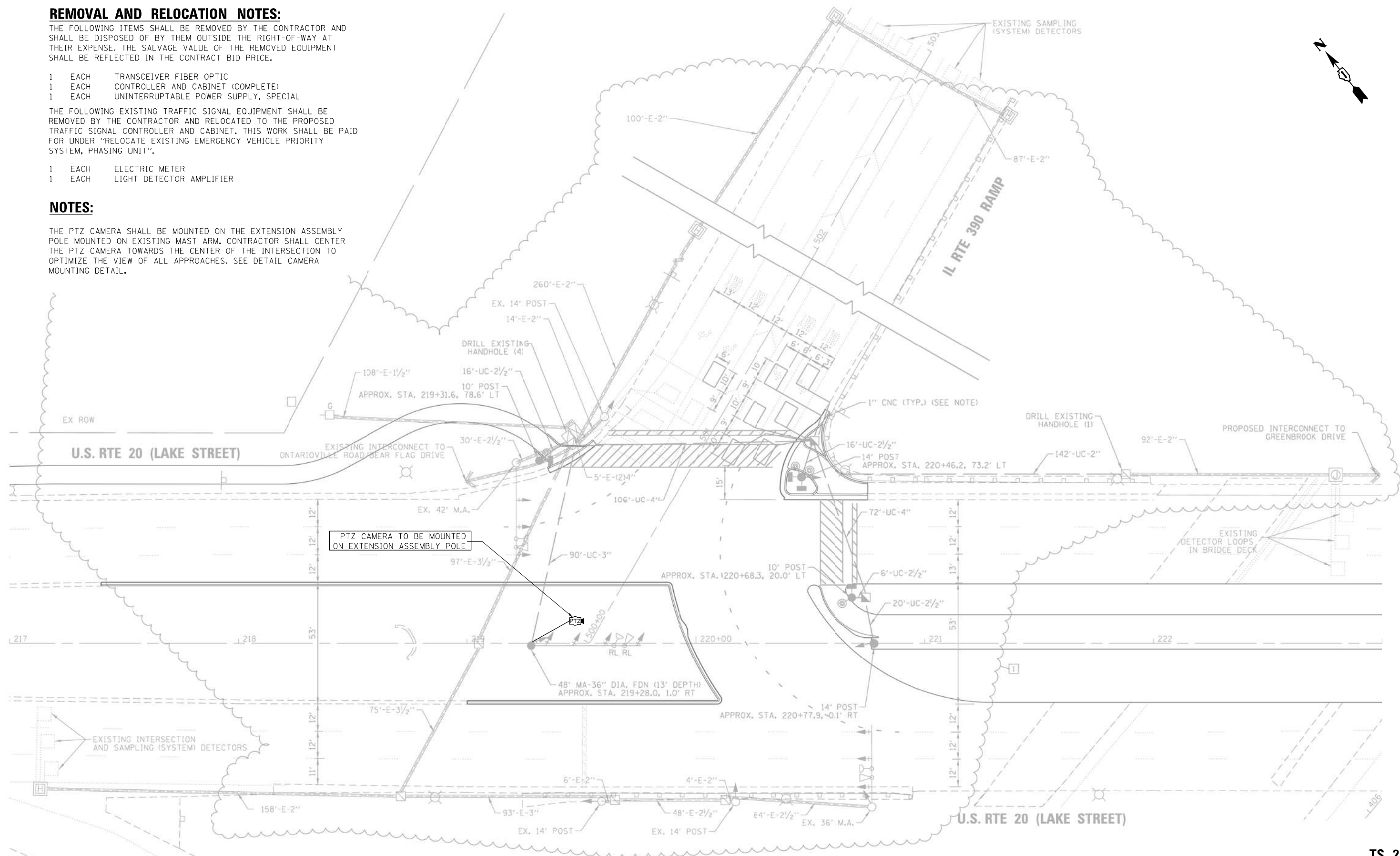
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

- 1 EACH ELECTRIC METER
- 1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 21910
IDOT TACTICS
FORMER EAGLE 5F**

K:\PROJECTS\Projects\2022\22-ESR-502-101.CMAD Contracts Phase 2\CADD\Sheets\06.US Rte 20 at IL 390 Ramp.INT.dgn

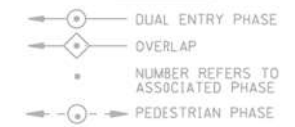
GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #39 US RTE 20 (LAKE ST) AT IL 390 RAMP INTERSECTION PLAN			F.A. RTE. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.00000' / in.	CHECKED - MS	REVISED -		REVISED -	SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -	REVISED -					CONTRACT NO. 62T54		FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			

SCHEDULE OF QUANTITIES

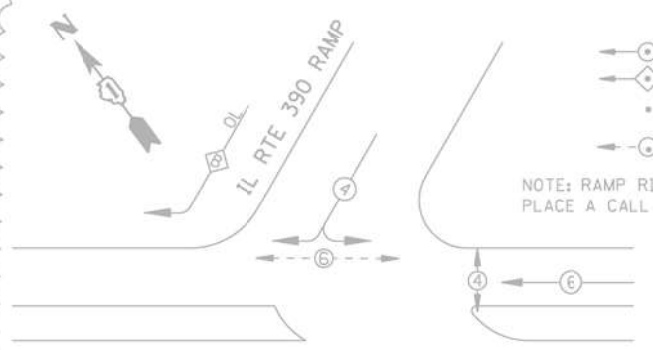
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	12
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	160
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

PROPOSED CONTROLLER SEQUENCE

LEGEND



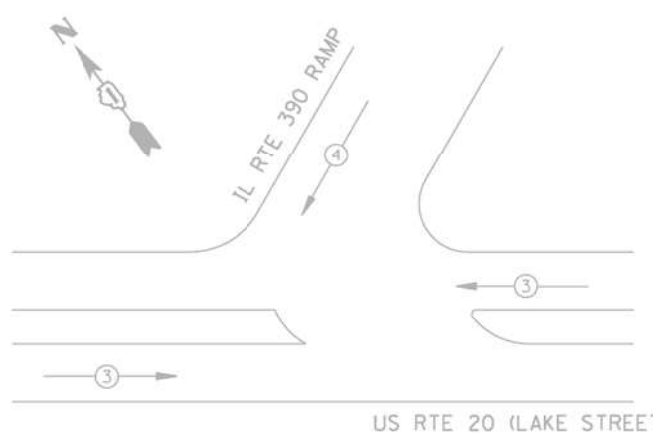
NOTE: RAMP RIGHT TURN LANE LOOPS PLACE A CALL TO DUMMY PHASE 5



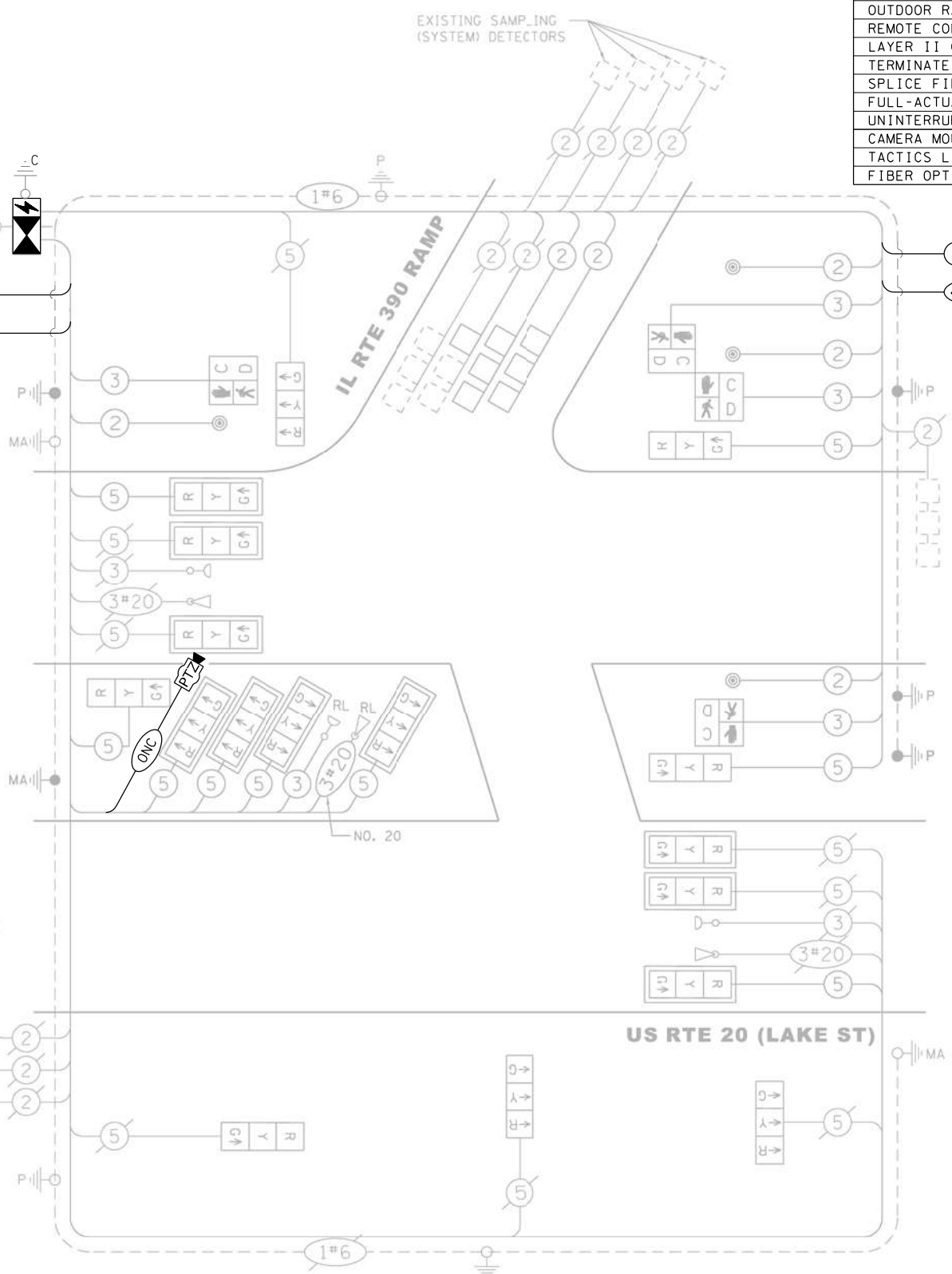
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

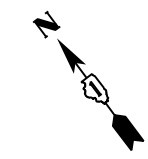


EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



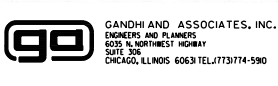
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	%OPERATION	
SIGNAL (RED)	17	17	0.50	0.50	144.50
(YELLOW)	17	25	0.25	0.25	106.25
(GREEN)	17	15	0.25	0.25	63.75
ARROW	0	12	0.10	0.10	0.00
PED. SIGNAL	4	25	1.00	1.00	100.00
CONTROLLER	1	100	1.00	1.00	100.00
UPS	1	25	1.00	1.00	25.00
ILLUM. SIGN		25	0.05		
FLASHER			0.50		
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION, 201 WEST CENTER COURT, SCHAUMBURG, IL 60196-1096					TOTAL = 539.50
ENERGY SUPPLY CONTACT: DAN SCHACHT, (630) 437-2137, COMMONWEALTH EDISON					

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-OMD-Contracts\Phase 2\CADD\Sheets\107 US Rte 20 at IL 390 Ramp.CAD.dgn



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #39 US RTE 20 (LAKE ST) AT IL 390 RAMP CABLE PLAN



DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	123
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

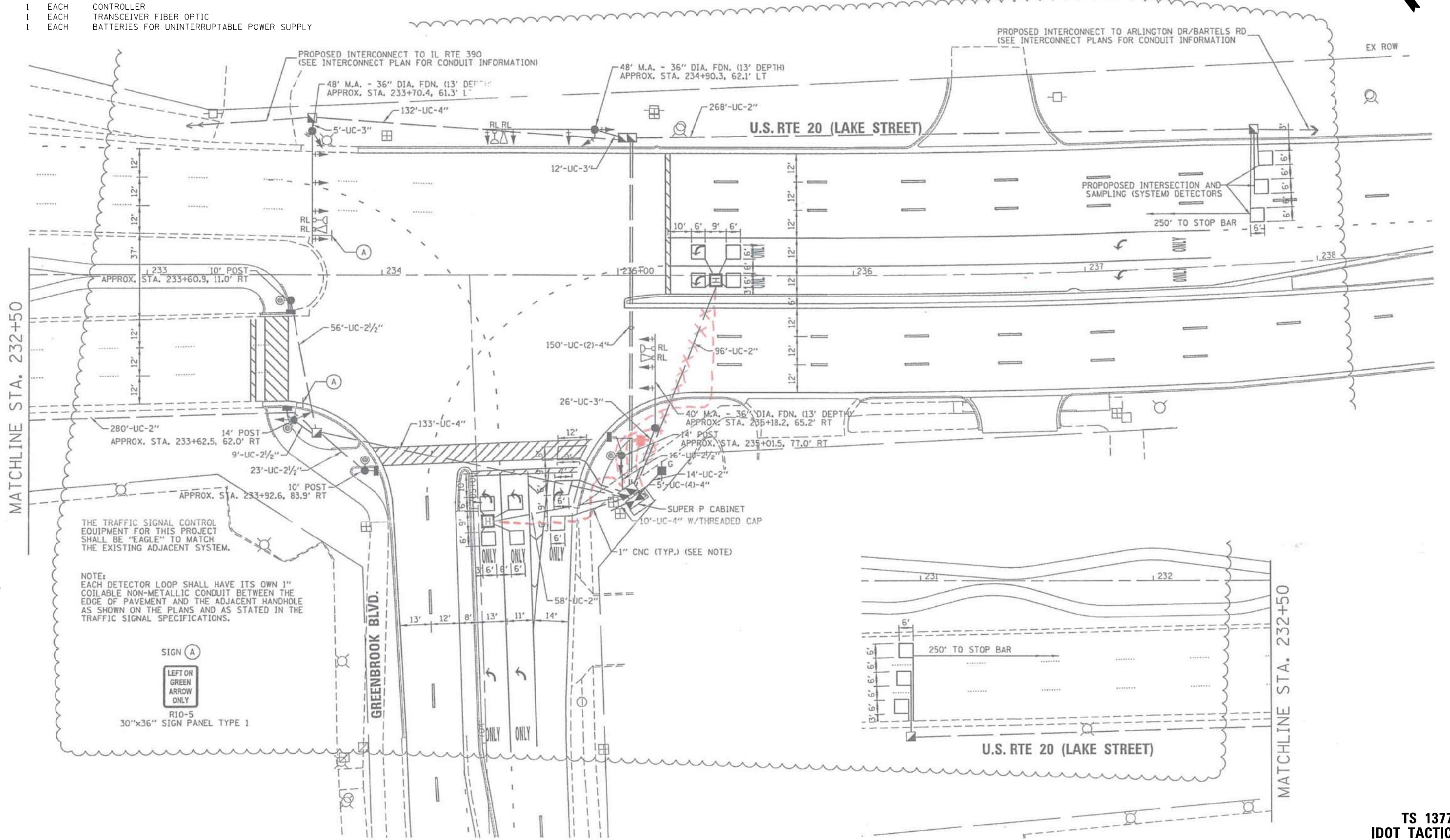
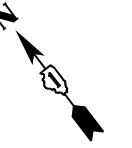
TS 2190 IDOT TACTICS FORMER EAGLE 5F

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



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

NOTE:
EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

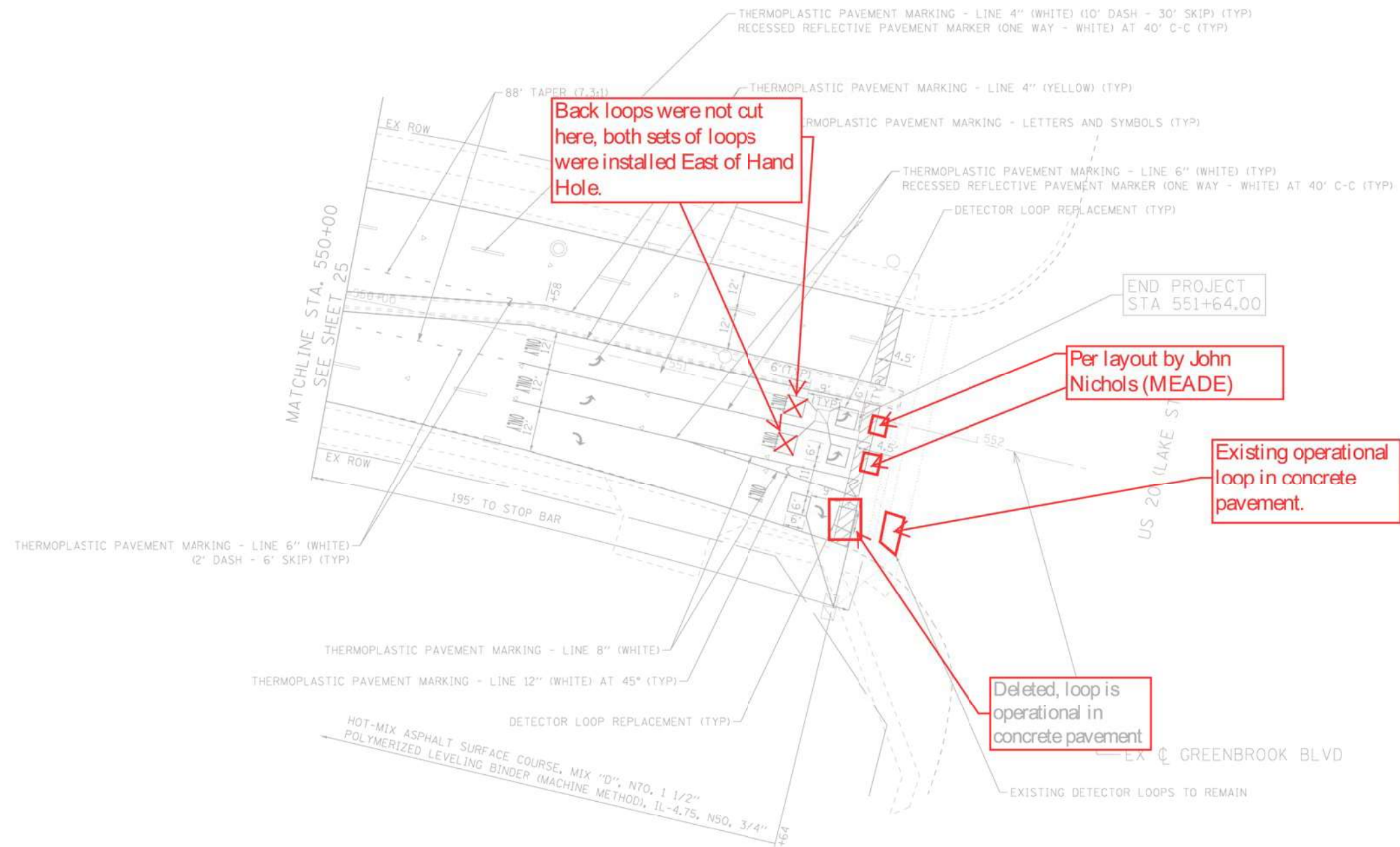


FILE NAME = K:\PROJECTS\Projects_2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\08.US Rte 20 at Greenbrook Blvd.INT.dgn



<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">LOCATION #40 US RTE 20 (LAKE ST) AT GREENBROOK BLVD INTERSECTION PLAN SHEET 1</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
									FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			

TS 13770
IDOT TACTICS
FORMER EAGLE 5F


"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



LEGEND

-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\09_US Rte 20 at Greenbrook Blvd.INT.2.dgn

	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: 773-774-590		USER NAME = \$USER*	DESIGNED - EA	REVISED -
			DRAWN - EA, AV	REVISED -	
	PLOT SCALE = 40.0000' / in.		CHECKED - MS	REVISED -	
	PLOT DATE = \$DATE*		DATE - 10/31/2022	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

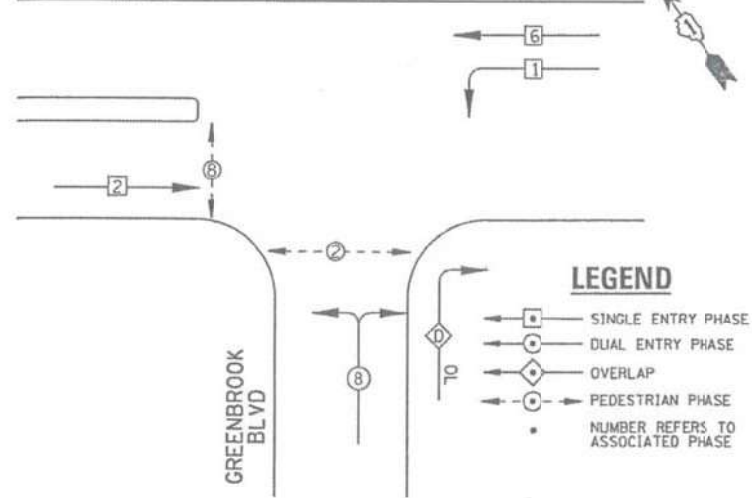
**LOCATION #40
US RTE 20 (LAKE ST) AT GREENBROOK BLVD INTERSECTION PLAN
SHEET 2**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

TS 13770 IDOT TACTICS FORMER EAGLE 5F		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02				306	125
					CONTRACT NO. 62T54	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT						

PROPOSED CONTROLLER SEQUENCE

US RTE 20 (LAKE STREET)

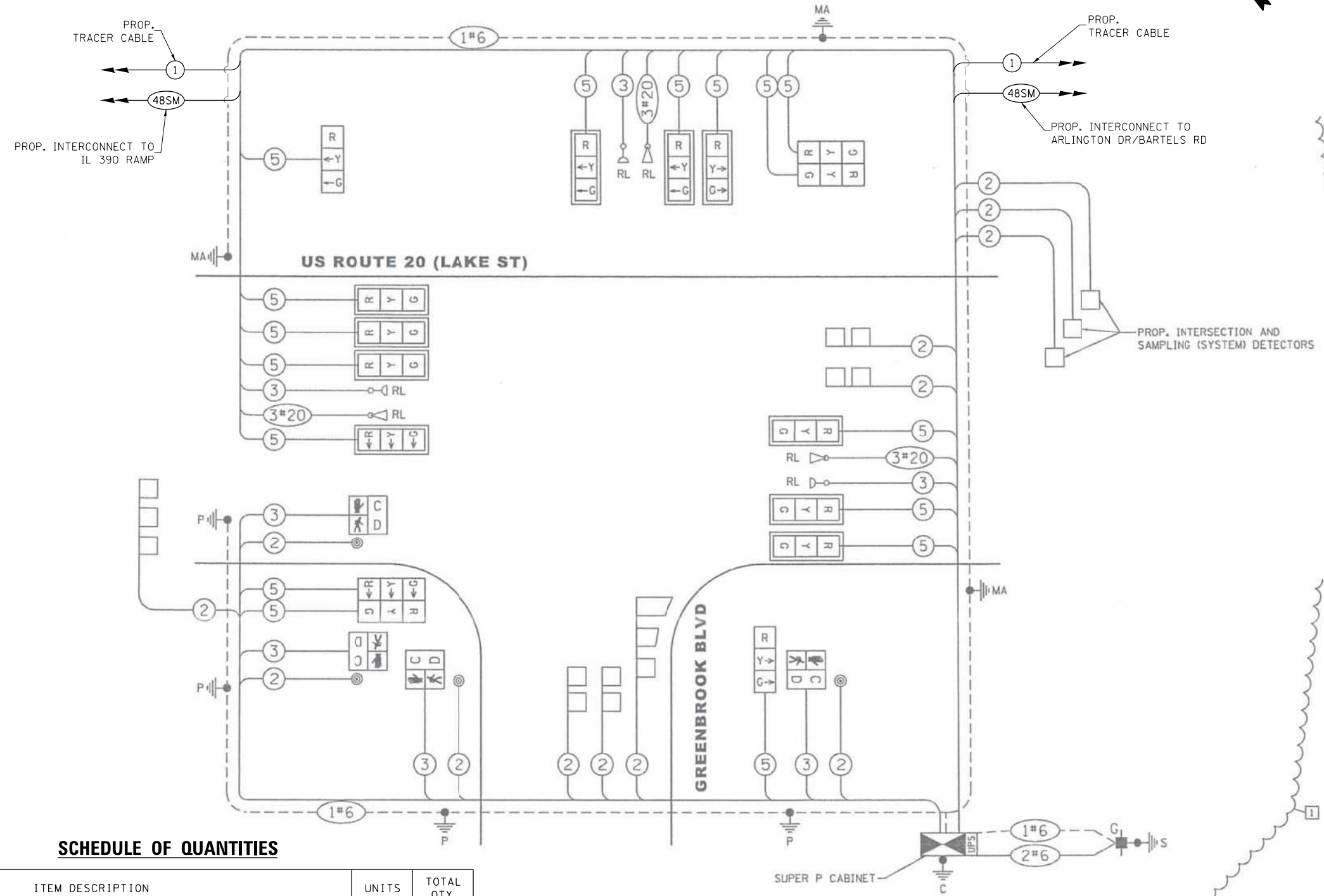
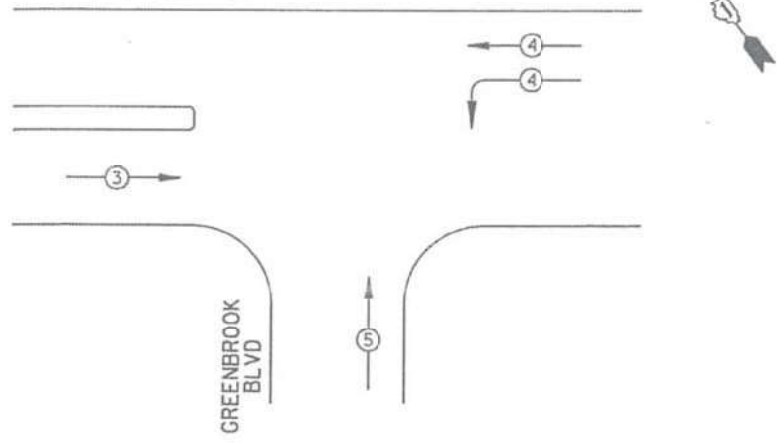


LEGEND
 □ SINGLE ENTRY PHASE
 ○ DUAL ENTRY PHASE
 ◇ OVERLAP
 ○ ● PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION
 OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE
 D = 8 + 1

**PROPOSED EMERGENCY VEHICLE
 PREEMPTION SEQUENCE**

US RTE 20 (LAKE STREET)



CABLE PLAN
 (NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED) (YELLOW)	16	17	25	0.50	136.00
(GREEN)	16	15	25	0.25	100.00
ARROW	0	12	25	0.25	0.00
PED. SIGNAL	4	25	1.00	1.00	100.00
CONTROLLER	1	100	1.00	1.00	100.00
UPS	1	25	1.00	1.00	25.00
ILLUM. SIGN	-	25	0.05		
FLASHER	-		0.50		
ENERGY COSTS TO: VILLAGE OF HANOVER PARK 2121 LAKE STREET HANOVER PARK, IL 60133				TOTAL =	521.00
ENERGY SUPPLY CONTACT: DAN SCHACHT PHONE: (630) 437-2137 COMPANY: COMMONWEALTH EDISON					

FILE NAME = K:\PROJECTS\Projects_2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\1100-US Rte 20 at Greenbrook Blvd.Caddgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION #40
 US RTE 20 (LAKE ST) AT GREENBROOK BLVD CABLE PLAN**
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	126
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 13770
 IDOT TACTICS
 FORMER EAGLE 5F**

REMOVAL AND RELOCATION NOTES:

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

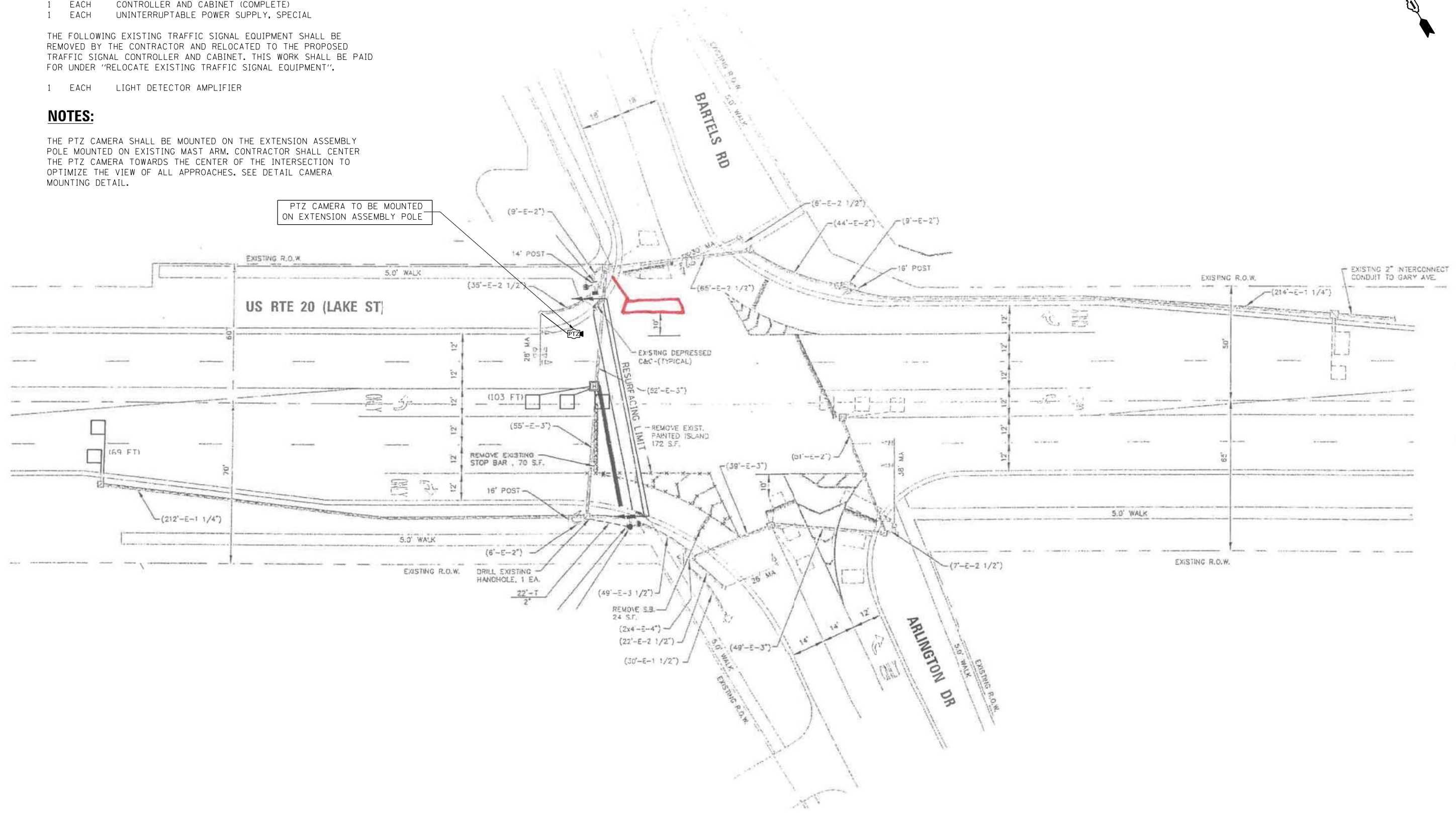
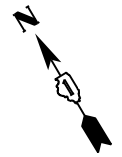
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

- 1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

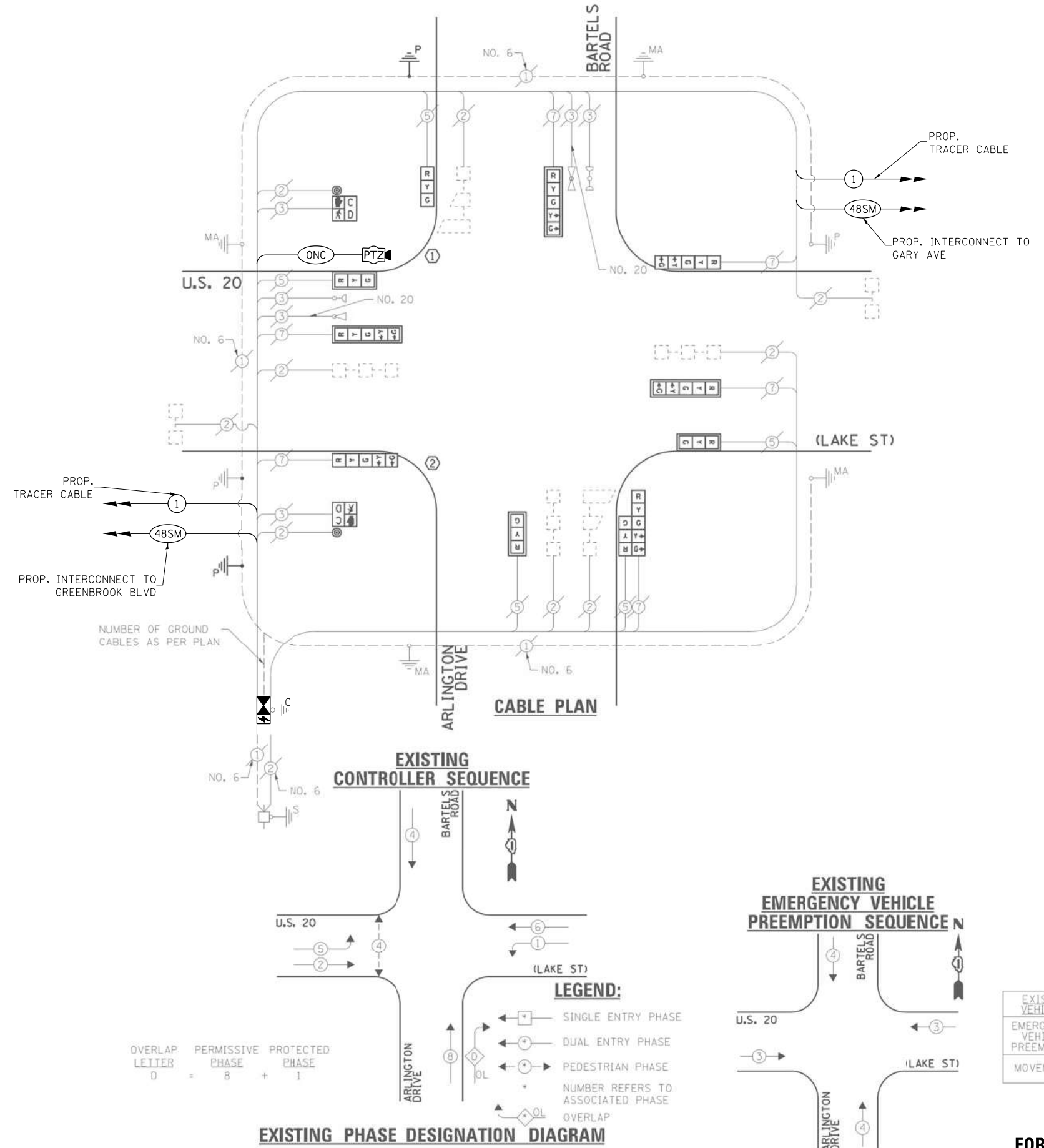
**TS 7870
IDOT TACTICS
FORMER EAGLE 5F**

FILE NAME = K:\PROJECTS\Projects_2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\111.US Rte 20 at Bartels Rd.INT.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: 773/774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #41 US RTE 20 (LAKE ST) AT BARTELS RD INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
								FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	7
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	280
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	11	135	17	0.50	93.5
SIGNAL (YELLOW)	11	135	25	0.25	68.75
SIGNAL (GREEN)	11	135	15	0.25	41.25
ARROW	12	135	12	0.10	14.4
FED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					392.9

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: CQM-ED

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD\Sheets\112.US Rte 20 at Bartels Rd_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #41
US RTE 20 (LAKE ST) AT BARTELS RD CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	128
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 7870
IDOT TACTICS
FORMER EAGLE 5F**

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

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

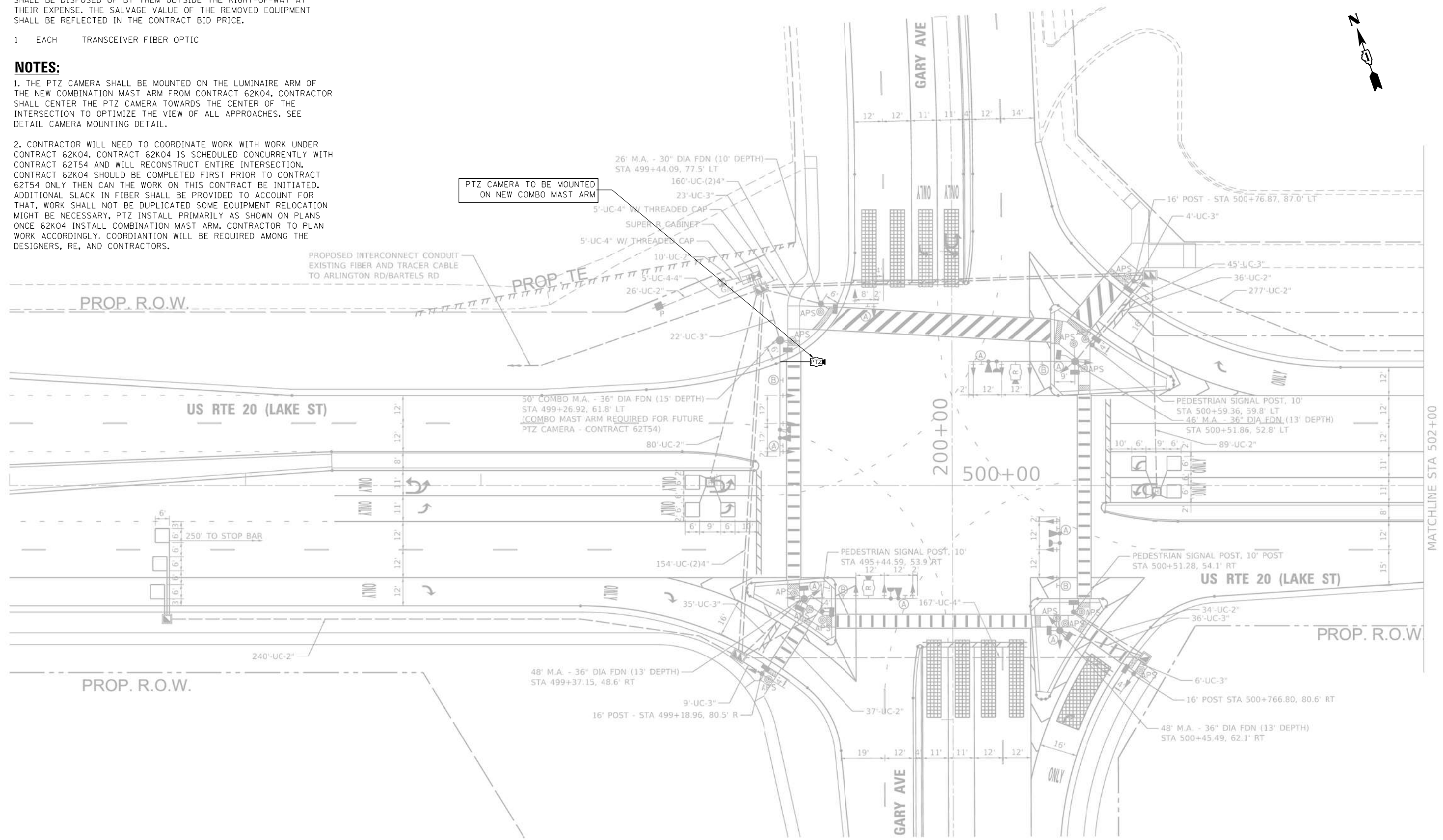
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH TRANSCEIVER FIBER OPTIC

NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE LUMINAIRE ARM OF THE NEW COMBINATION MAST ARM FROM CONTRACT 62K04. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

2. CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62K04. CONTRACT 62K04 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62K04 SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS ONCE 62K04 INSTALL COMBINATION MAST ARM. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.



FILE NAME = K:\PROJECTS\Projects_2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\113.US Rte 20 at Gary Ave.INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
DATE - 10/31/2022		

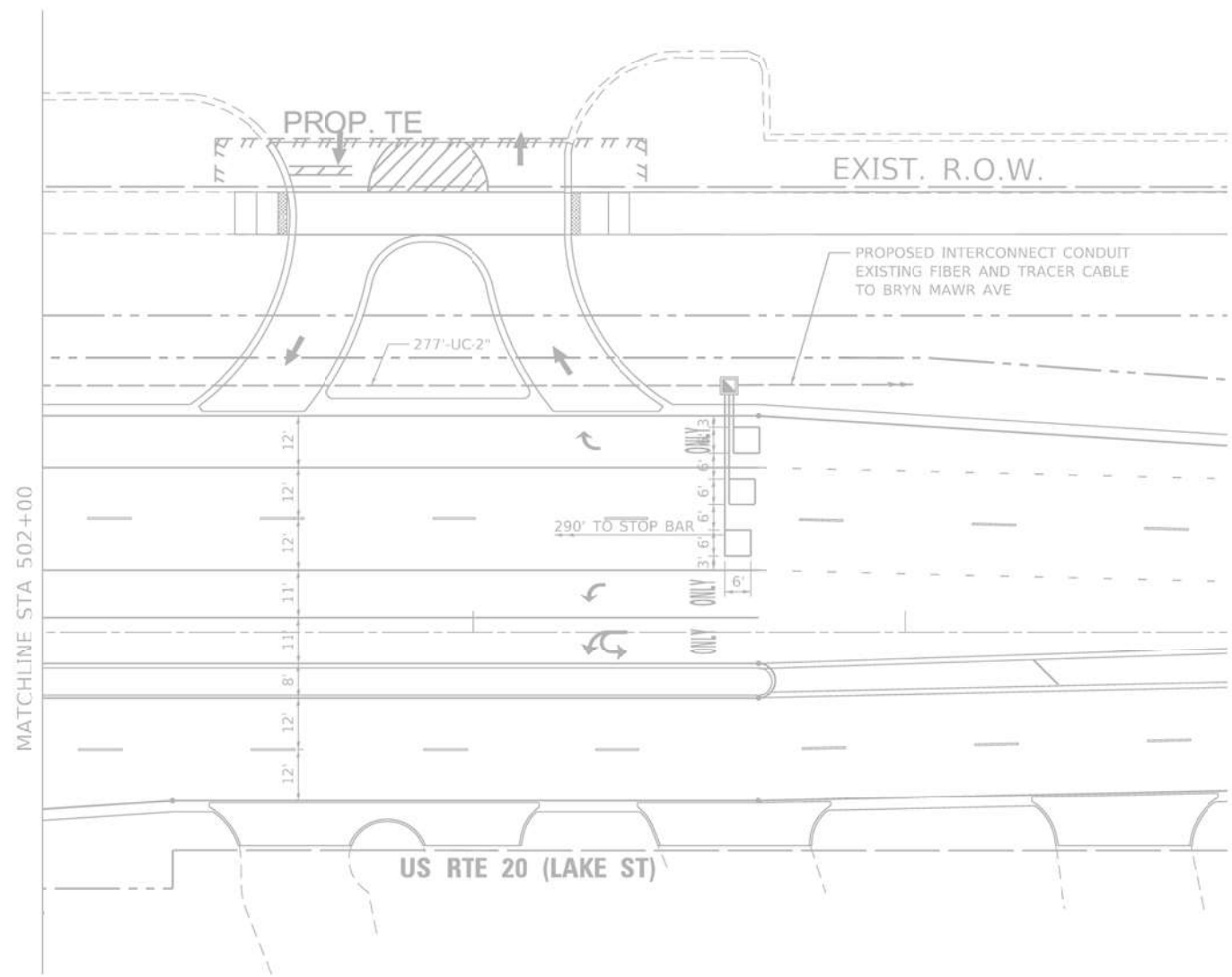
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #42
US RTE 20 (LAKE ST) AT GARY AVE INTERSECTION PLAN SHEET 1**

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	129
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 6030
IDOT TACTICS
FORMER EAGLE 5F**

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\13A-US Rte 20 at Gary Ave_INT 2.dgn

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

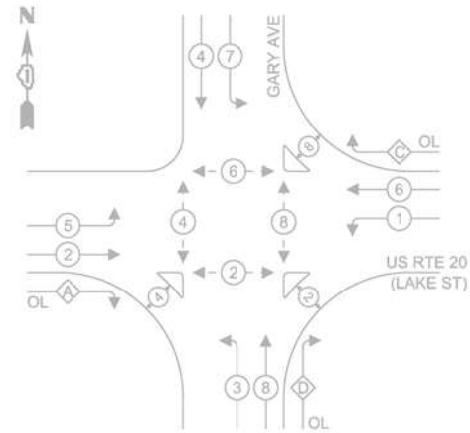
**LOCATION #42
US RTE 20 (LAKE ST) AT GARY AVE INTERSECTION PLAN SHEET 2**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	130
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 6030
IDOT TACTICS
FORMER EAGLE 5F**

PROPOSED CONTROLLER SEQUENCE



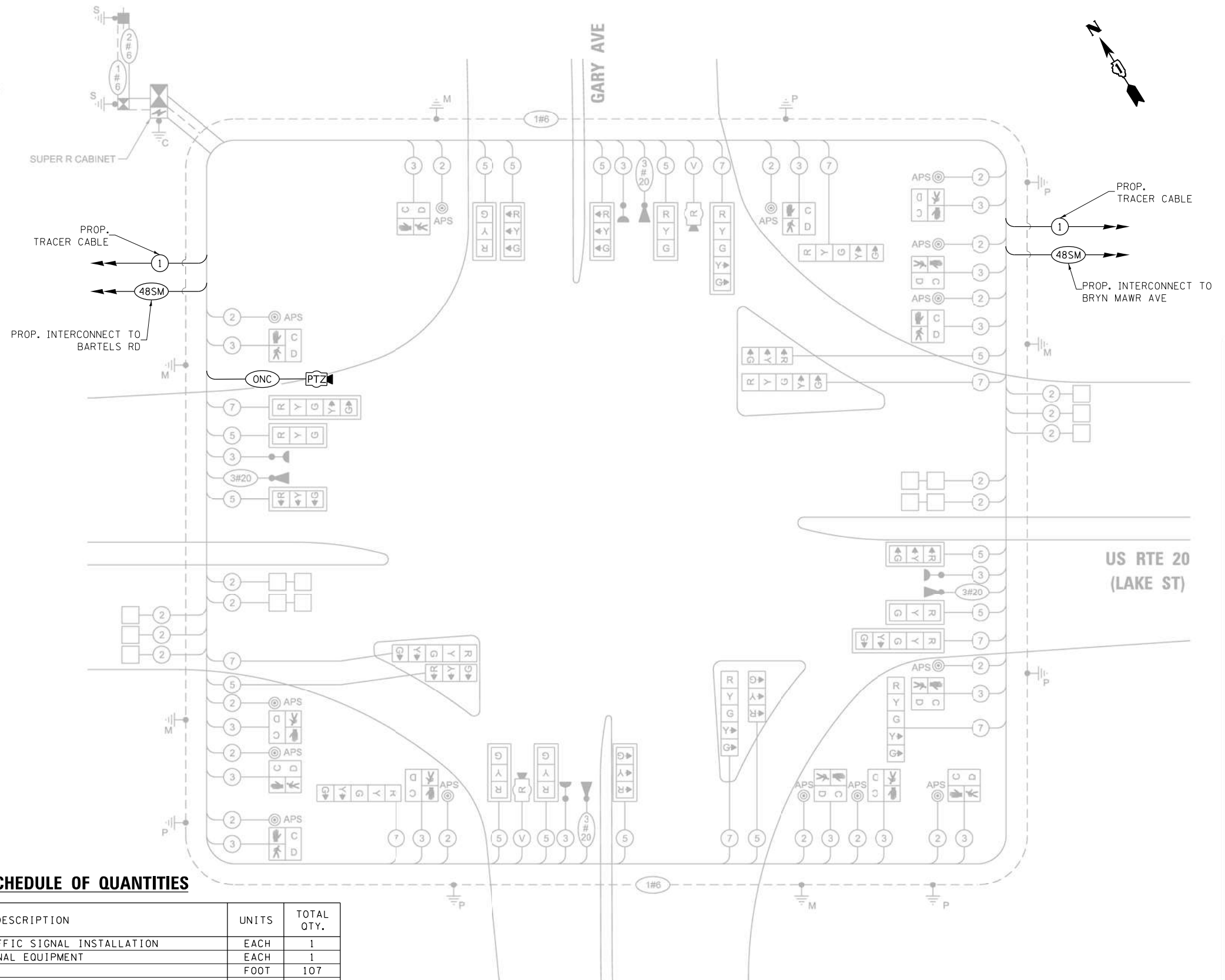
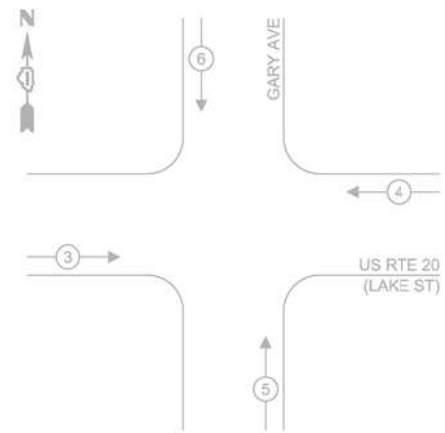
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	107
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
LAYER III (NETWORK) SWITCH	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	23	11	50	126.5
(YELLOW)	23	20	5	23.0
(GREEN)	23	12	45	124.2
PERMISSIVE ARROW	18	10	10	18.0
PED. SIGNAL	14	20	100	280.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				696.7

ENERGY COSTS TO:
 ILLINOIS DEPT OF TRANSPORTATION
 201 W CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 07981-48026

CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #42
US RTE 20 (LAKE ST) AT GARY AVE CABLE PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	131
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

TS 6030
IDOT TACTICS
FORMER EAGLE 5F

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-IDOT\CMO Contract Phase 2\CADD\Sheets\114_US_Rte_20_at_Gary_Ave_CD.dgn

DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
505 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60659 TEL: (773) 774-5900

USER NAME = \$USER\$
PLOT SCALE = 40.0000' / in.
PLOT DATE = \$DATE\$

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

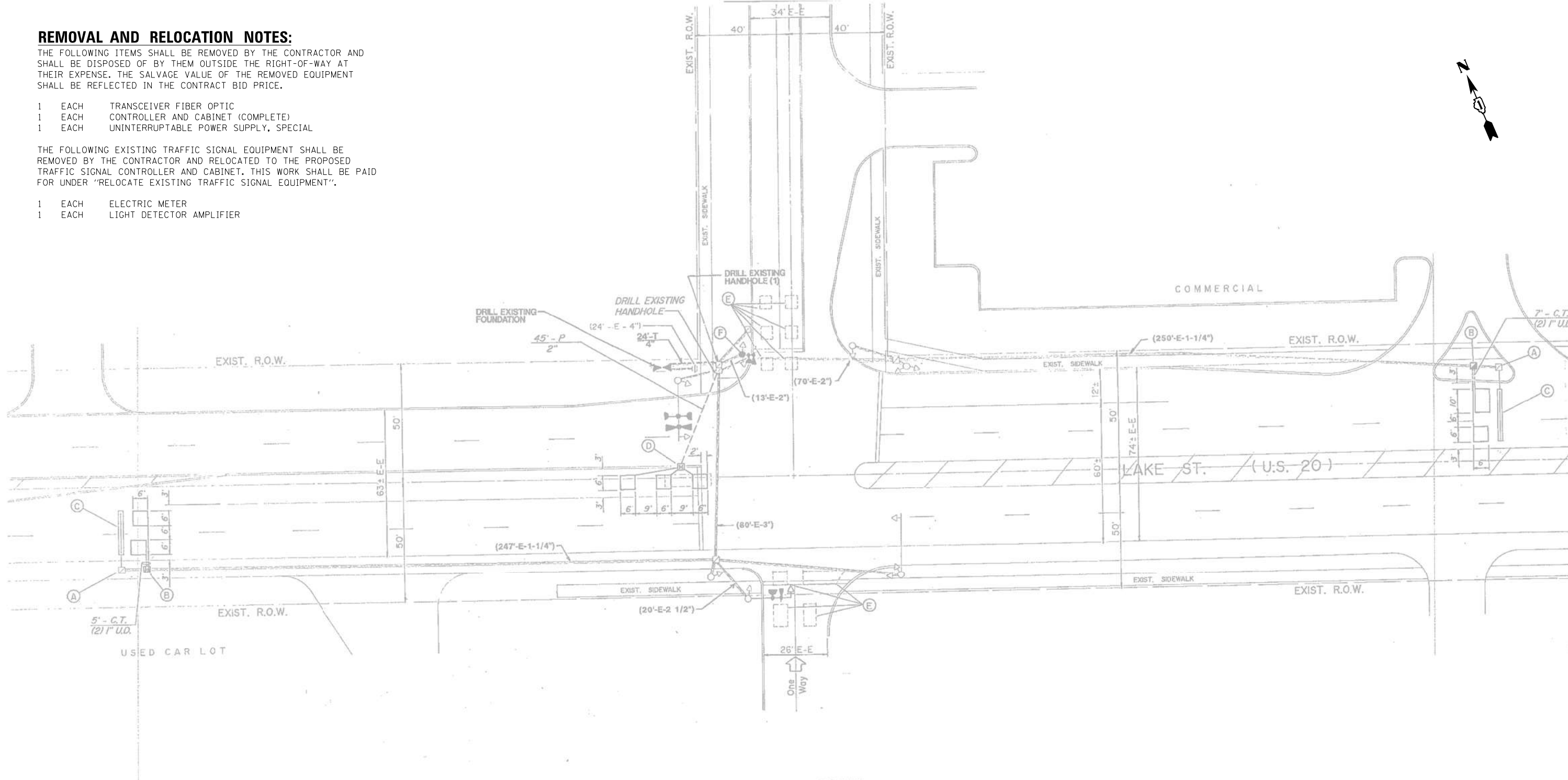
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

- 1 EACH ELECTRIC METER
- 1 EACH LIGHT DETECTOR AMPLIFIER



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

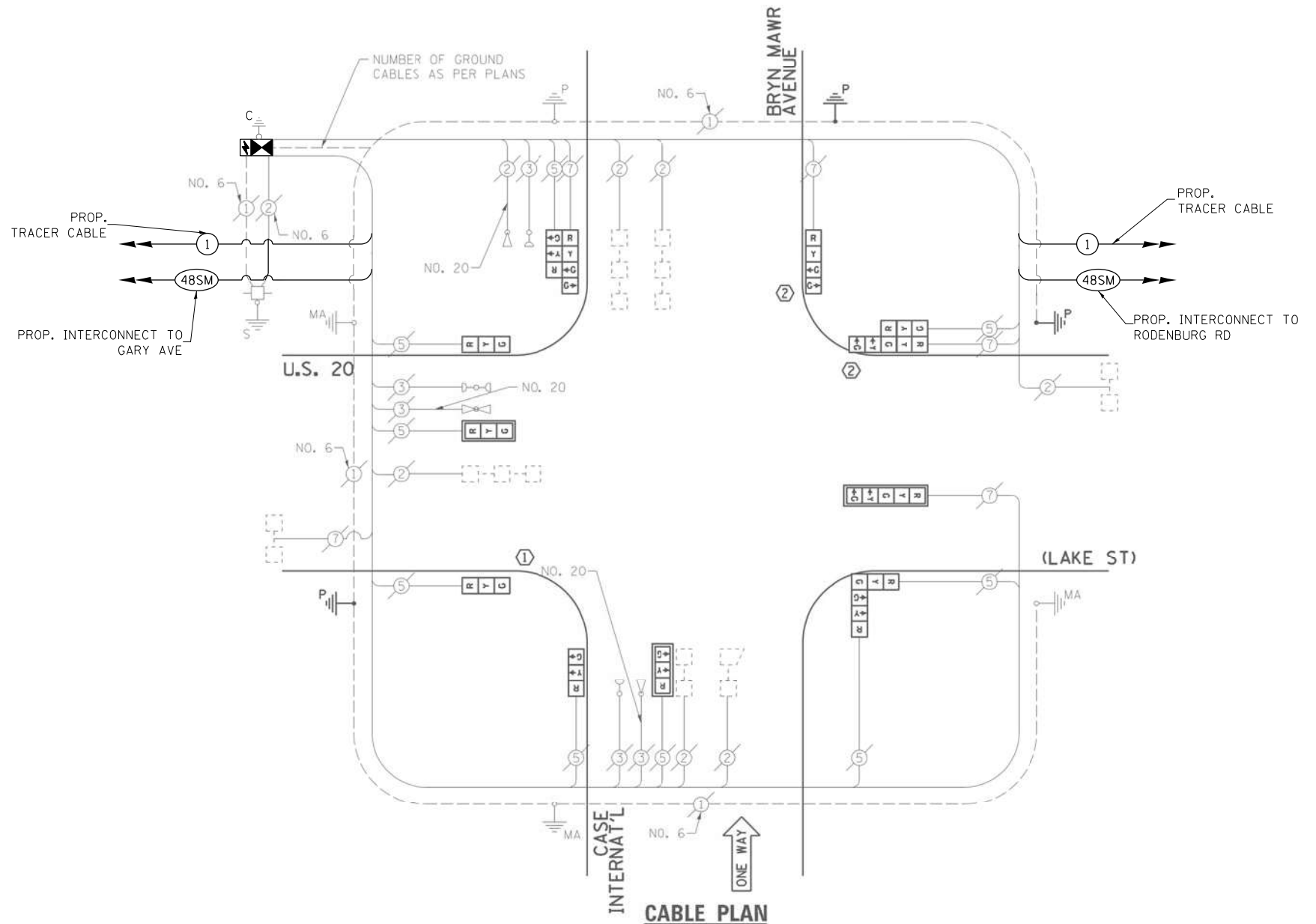
**TS 7875
IDOT TACTICS
FORMER EAGLE 5F**

K:\PROJECTS\Projects 2022\22-ESR-502-1DDT.CM40 Contracts Phase 2\CADD\Sheets\115.US Rte 20 at Bryn Mawr Ave.INT.dgn

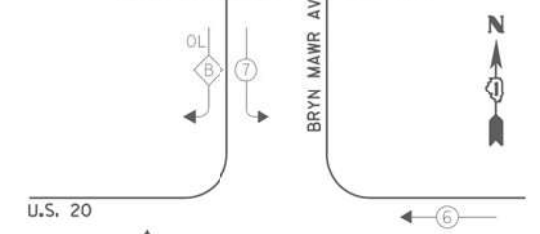
 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: 773.774.590	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #43 US RTE 20 (LAKE ST) AT BRYN MAWR AVE INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -								CONTRACT NO. 62T54		
								FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	7
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



EXISTING CONTROLLER SEQUENCE

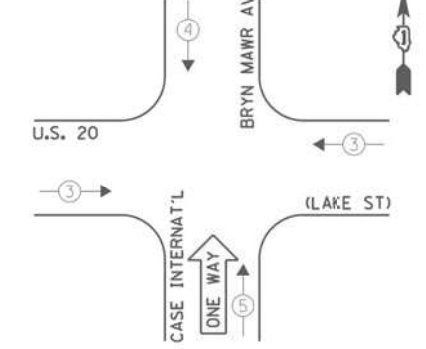


EXISTING PHASE DESIGNATION DIAGRAM

OVERLAP LETTER B = 7 + 5

- LEGEND:**
- ◀ □ ▶ SINGLE ENTRY PHASE
 - ◀ ○ ▶ DUAL ENTRY PHASE
 - ◀ ○ ▶ PEDESTRIAN PHASE
 - NUMBER REFERS TO ASSOCIATED PHASE
 - OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	←	↓	↑

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-101.CM00.Contracts Phase 2\CADD\Sheets\116.US Rte 20 at Bryn Mawr Ave.CDDgn

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
		INCAND.	L.E.D.		
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	81.25
SIGNAL (GREEN)	15	135	15	0.25	56.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					377.8

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: CQM-ED

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	PLOT SCALE = 40.0000' / 1"	DRAWN - EA, AV	REVISED -
	DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

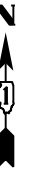
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #43
US RTE 20 (LAKE ST) AT BRYN MAWR AVE CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	133
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 7875
IDOT TACTICS
FORMER EAGLE 5F**



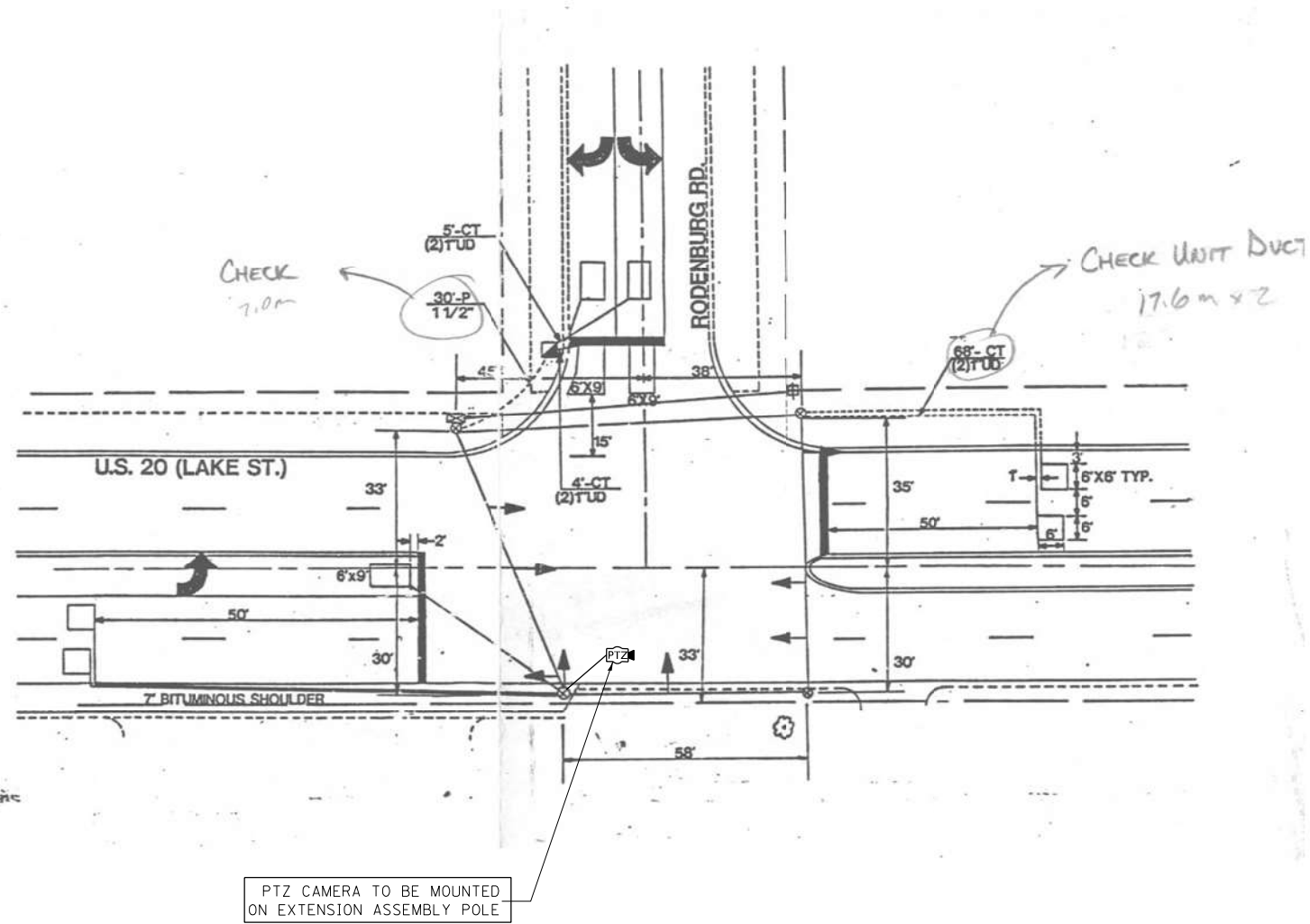
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

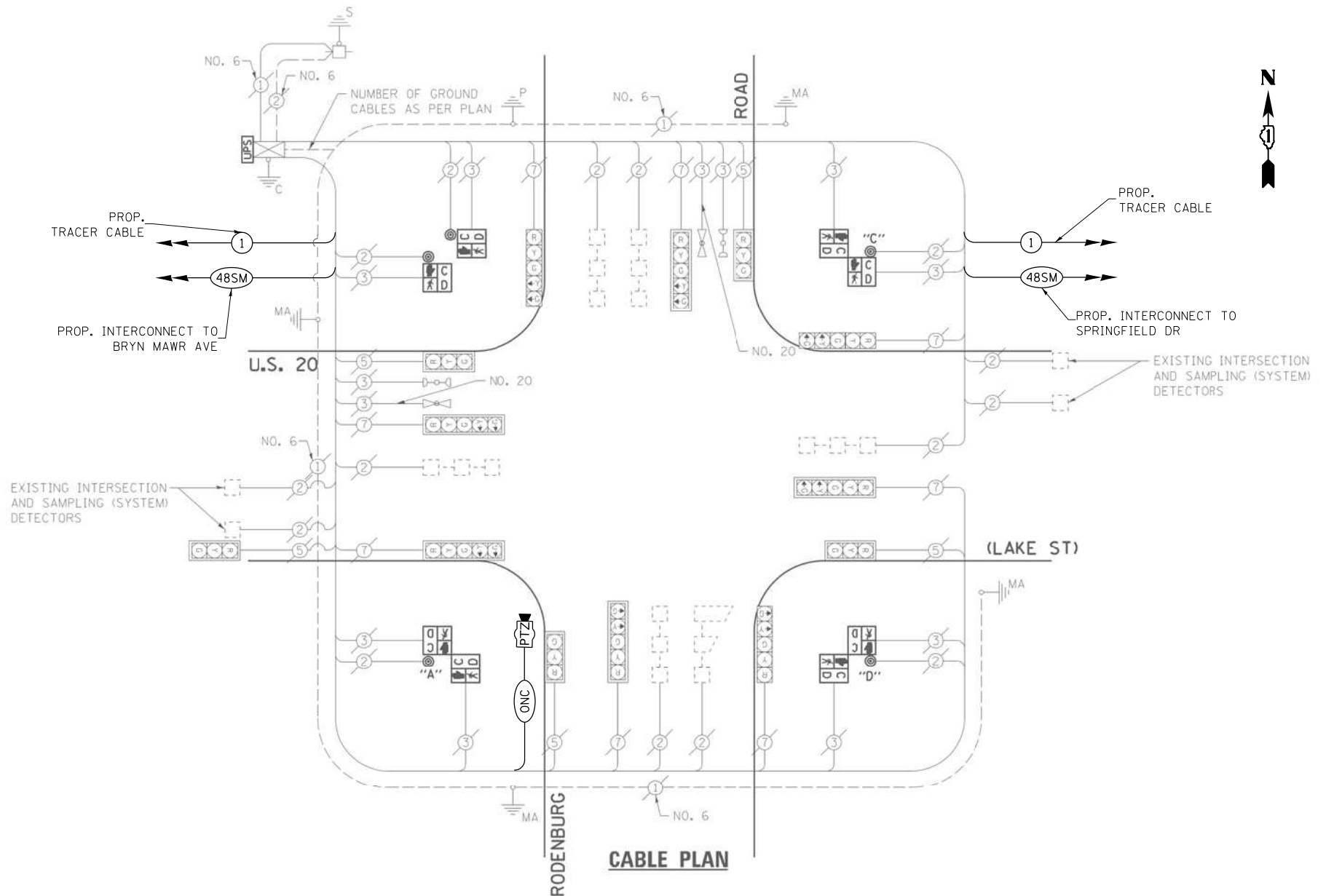
TS 22025
IDOT TACTICS
FORMER EAGLE 5F

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\17.US Rte 20 at Rodenburg Rd.INT.dgn

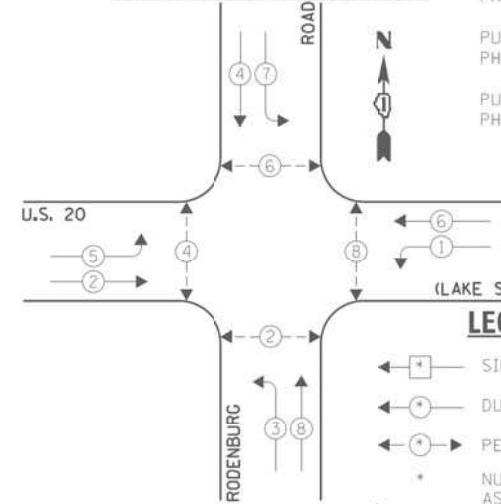
 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #44 US RTE 20 (LAKE ST) AT RODENBURG RD INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT												

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	130
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



EXISTING CONTROLLER SEQUENCE



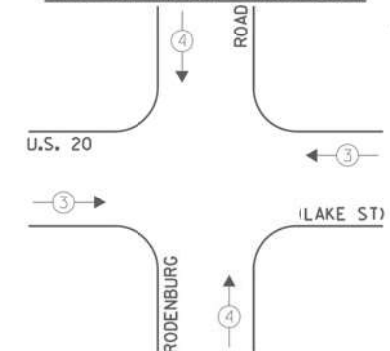
NOTE:
 PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 8 AND 2.

LEGEND:

- ← □ → SINGLE ENTRY PHASE
- ← ○ → DUAL ENTRY PHASE
- ← ○ → PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	81.25
SIGNAL (GREEN)	13	135	15	0.25	48.75
ARROW	24	135	12	0.10	28.8
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					594.3

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: CQM-ED



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION #44
 US RTE 20 (LAKE ST) AT RODENBURG RD CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	135
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 22025
 IDOT TACTICS
 FORMER EAGLE 5F**

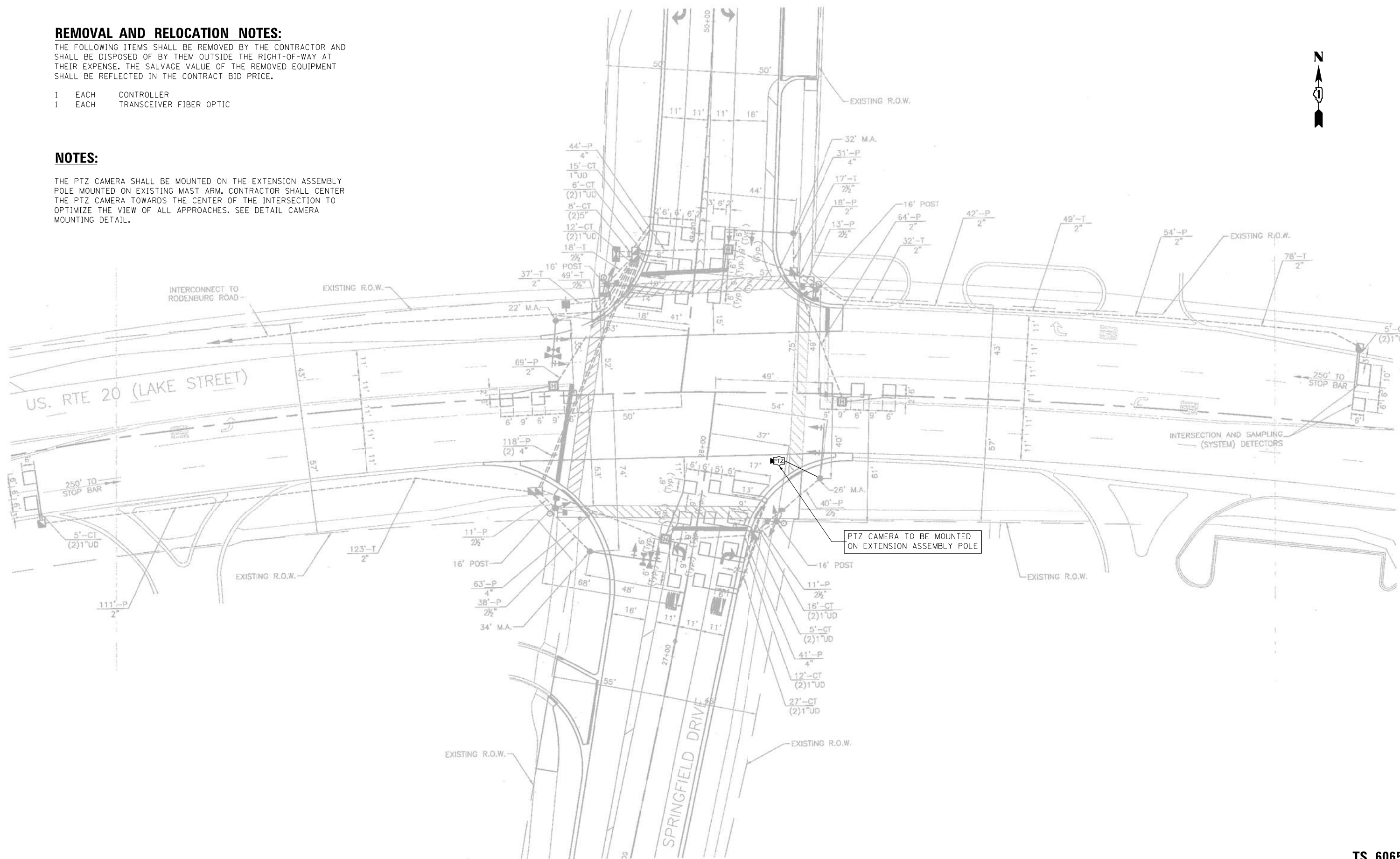
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

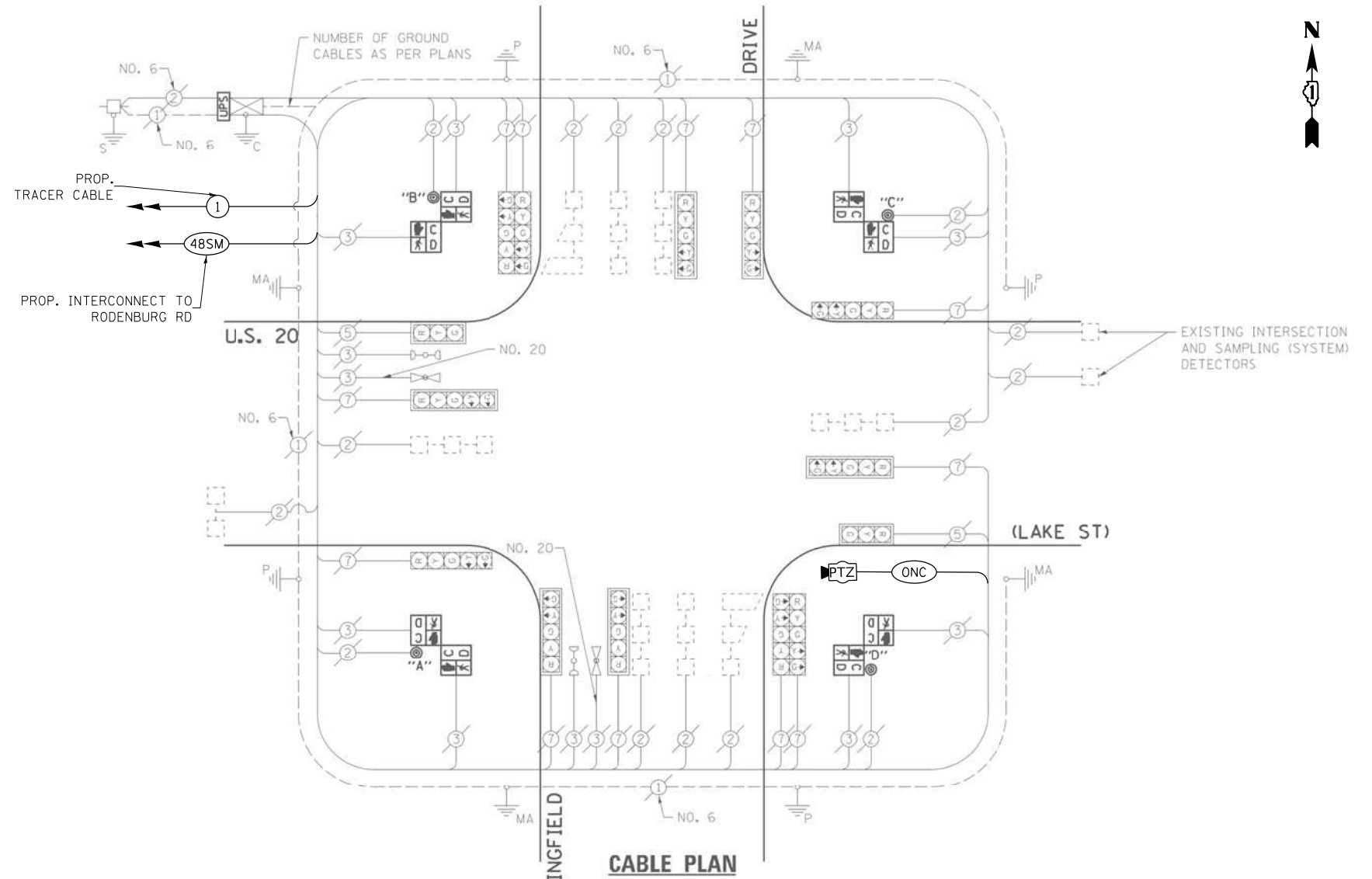
**TS 6065
IDOT TACTICS
FORMER EAGLE 5F**

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\19_US_Rte_20_at_Springfield_Dr-.INT.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #45 US RTE 20 (LAKE ST) AT SPRINGFIELD DR INTERSECTION PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISIED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS	306
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISIED -								CONTRACT NO. 62T54			
								FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

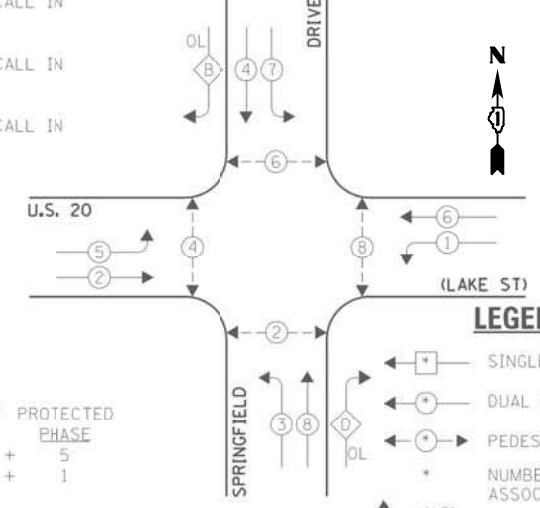
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	361
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
POWER OVER ETHERNET EXTENDER	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



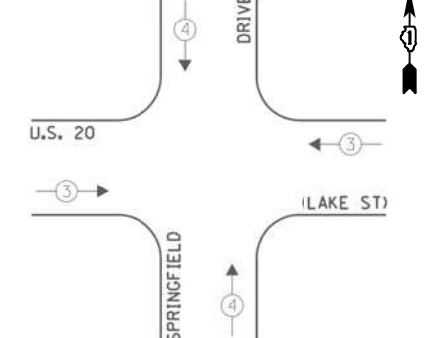
NOTE:
 PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 8 AND 2.

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE INCAND.	OPERATION L.E.D.		
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	87.5
SIGNAL (GREEN)	14	135	15	0.25	52.5
ARROW	24	135	12	0.10	28.8
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					612.8

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: COM-ED

USER NAME = \$USER*	DESIGNED - EA	REVISED -
DESIGNED - EA	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS	LOCATION #45
DEPARTMENT OF TRANSPORTATION	US RTE 20 (LAKE ST) AT SPRINGFIELD DR CABLE PLAN

SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	137
CONTRACT NO. 62T54				

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
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**TS 6065
 IDOT TACTICS
 FORMER EAGLE 5F**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-602-101.CM00.Cm00.Sheets\20.US.Rte.20.at.Springfield.Dr..CD.dgn

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

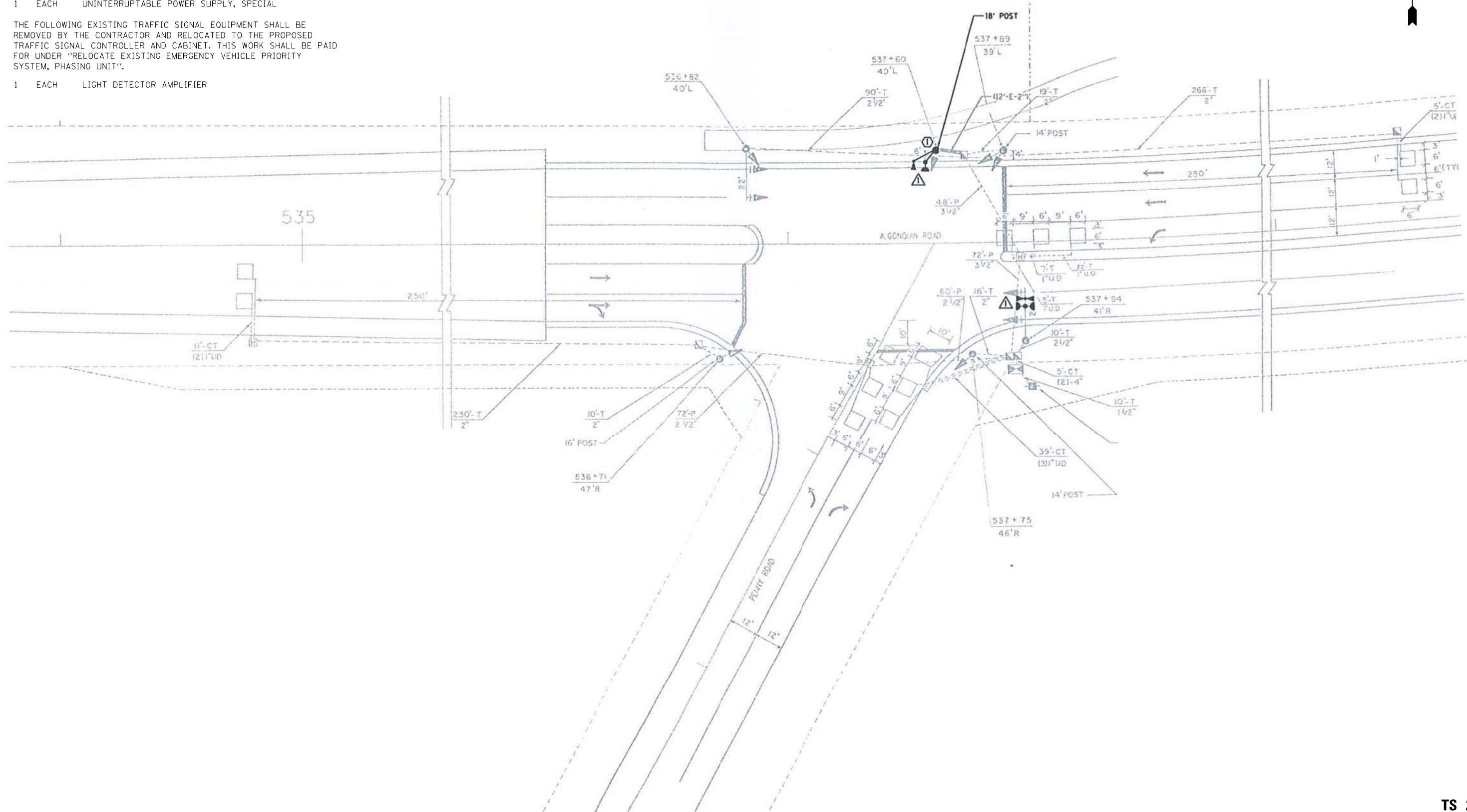
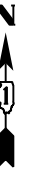
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

- 1 EACH LIGHT DETECTOR AMPLIFIER



K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\21.IL Rte 62 at Penny Rd_INT.dgn

GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE*		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

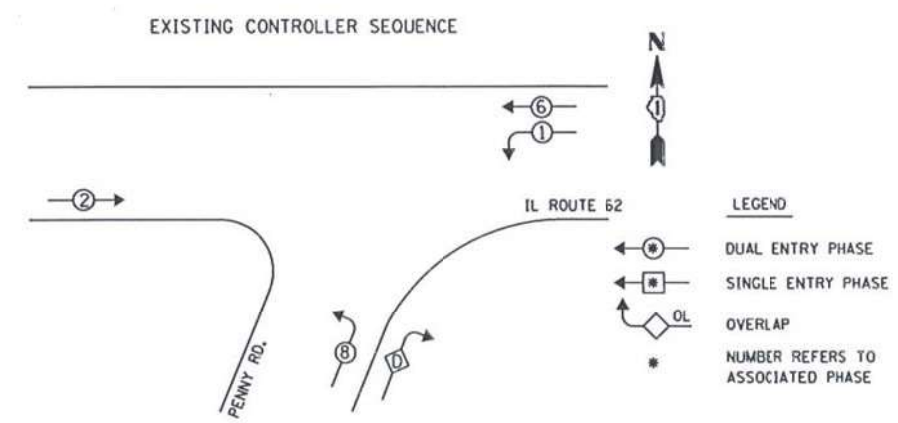
**LOCATION #46
IL RTE 62 (ALGONQUIN RD) AT PENNY RD INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	138
CONTRACT NO. 62T54			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

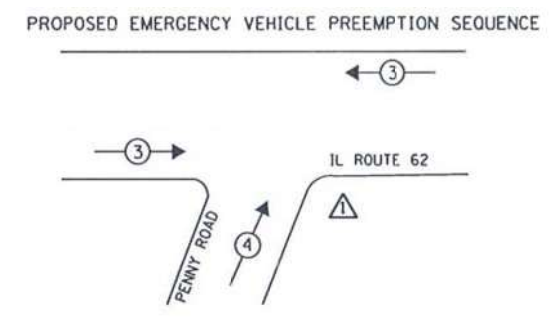
**TS 22240
IDOT CENTRACS
FORMER ECON 95**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\22-IL Rte 62 at Penny Rd.CADD.dgn

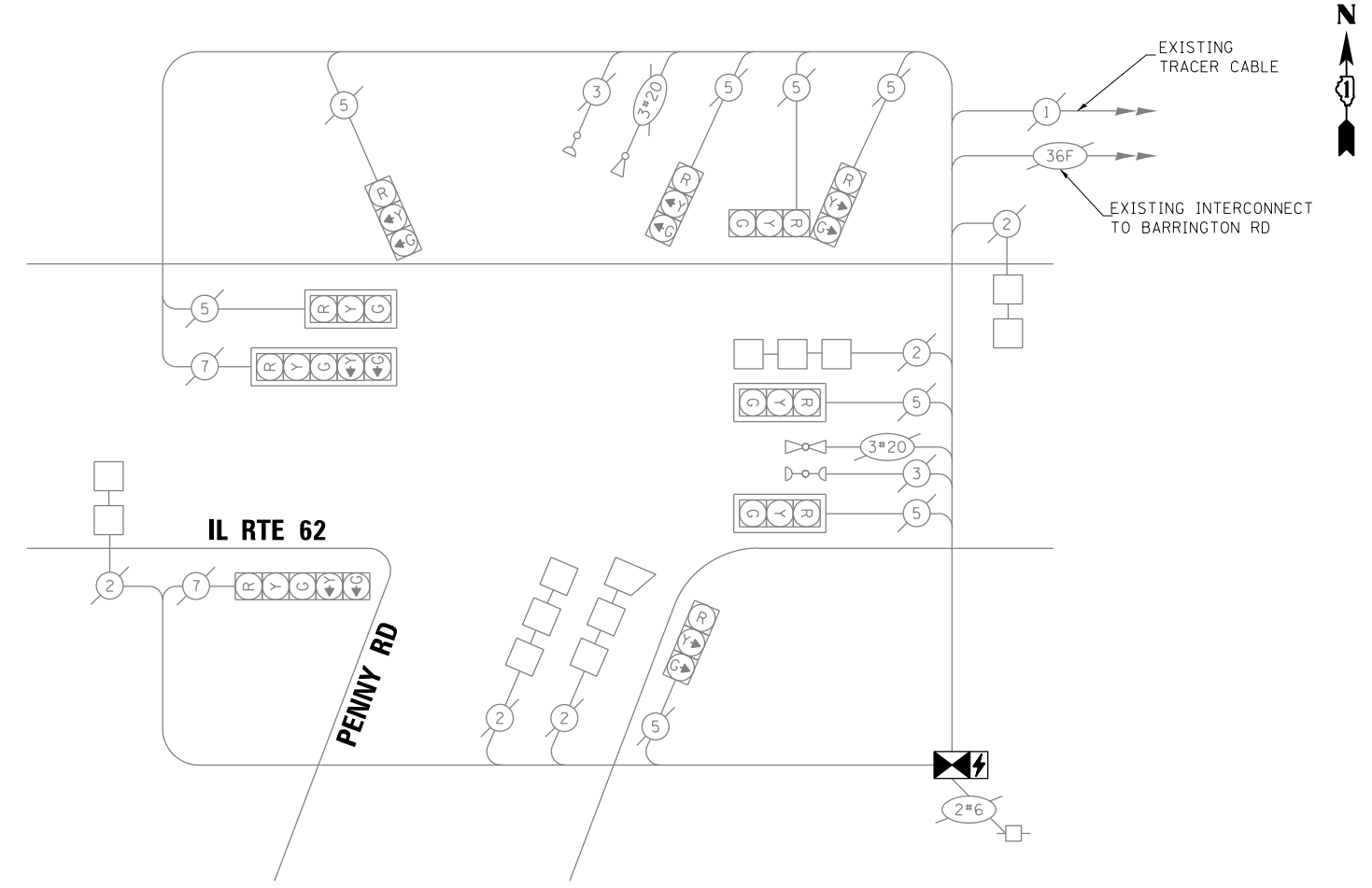


RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↗



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	5
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1



USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE*	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #46			
IL RTE 62 (ALGONQUIN RD) AT PENNY RD CABLE PLAN			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	139
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 22240
IDOT CENTRACS
FORMER ECON 95

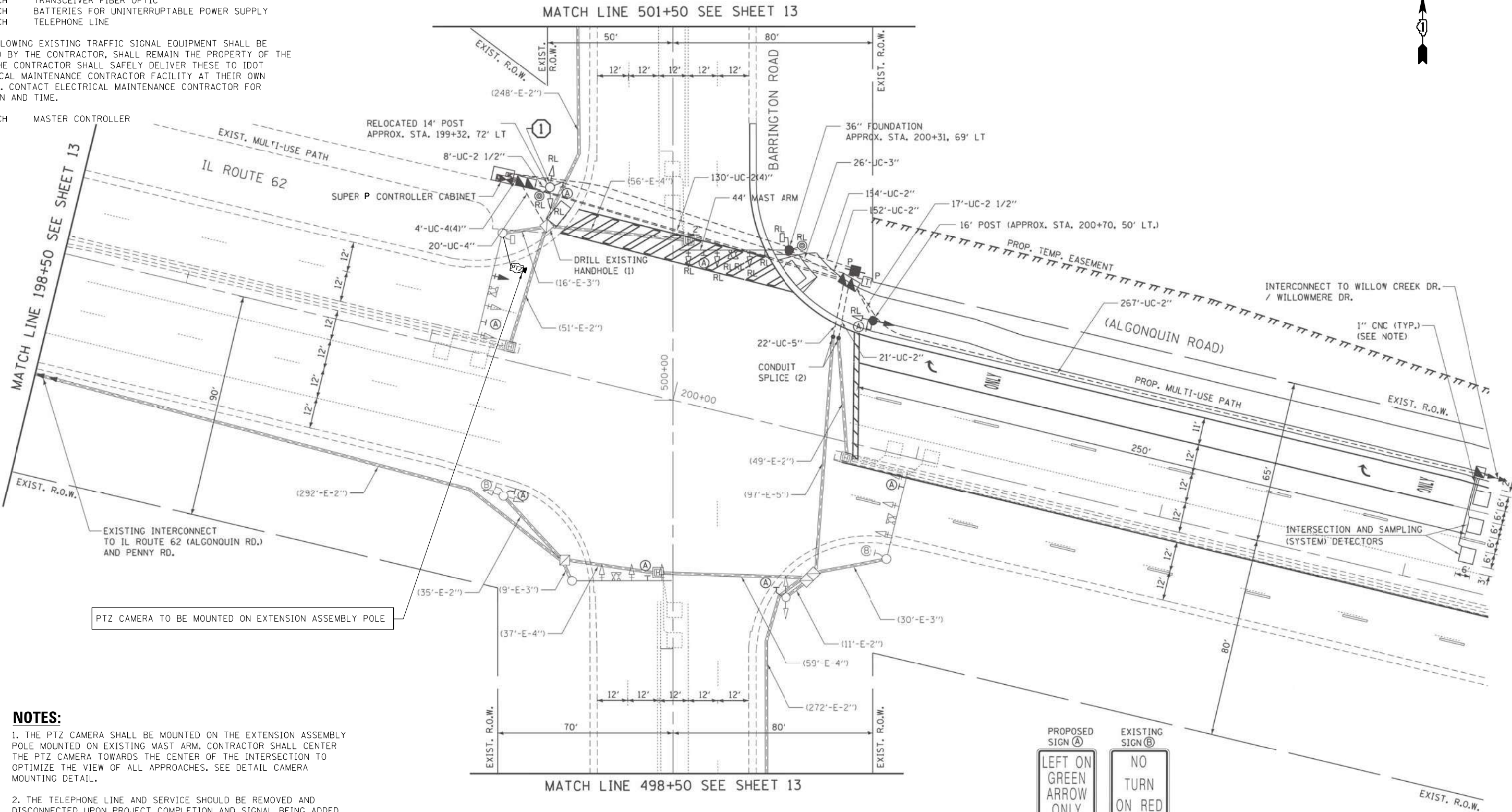
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY
- 1 EACH TELEPHONE LINE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH MASTER CONTROLLER



NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.
2. THE TELEPHONE LINE AND SERVICE SHOULD BE REMOVED AND DISCONNECTED UPON PROJECT COMPLETION AND SIGNAL BEING ADDED TO CENTRACS.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 2940
IDOT CENTRACS
FORMER ECON 95**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Centracs Phase 2\CADD\Sheets\123_IL_Rte 62 at Barrington Rd_INT.dgn



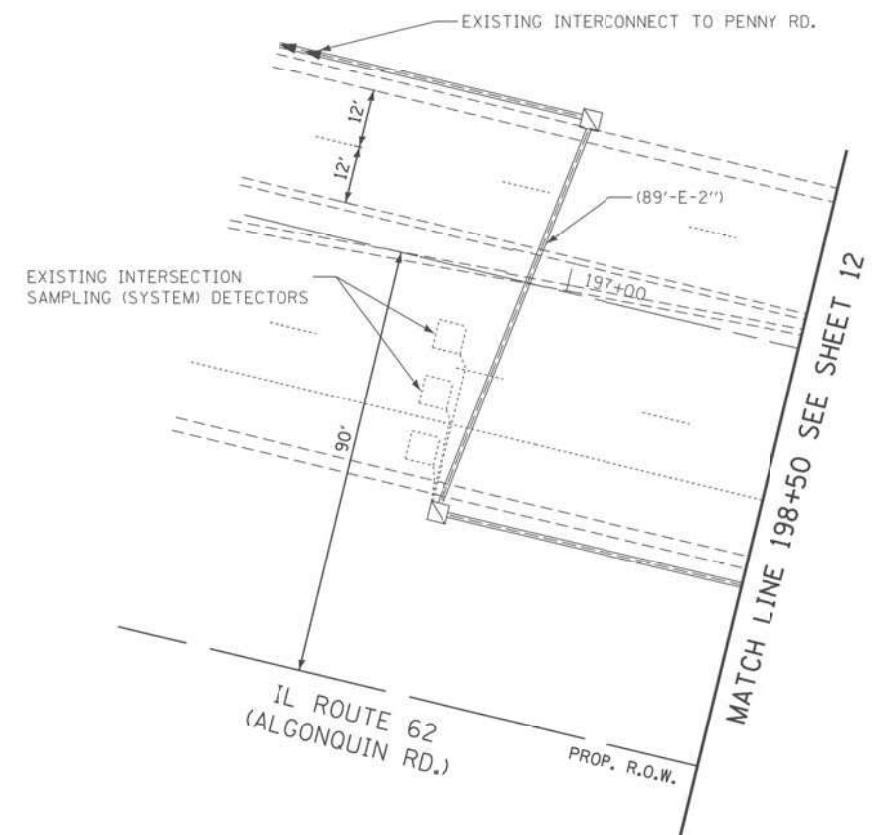
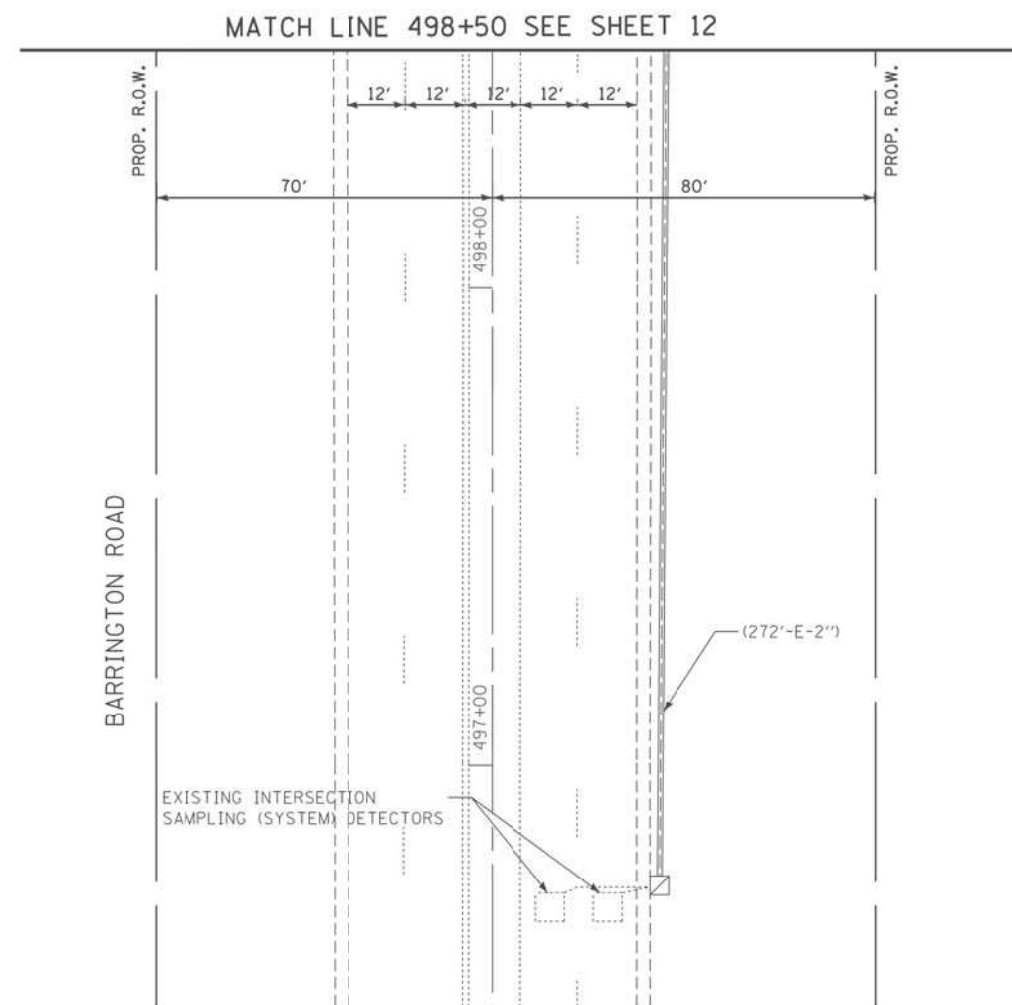
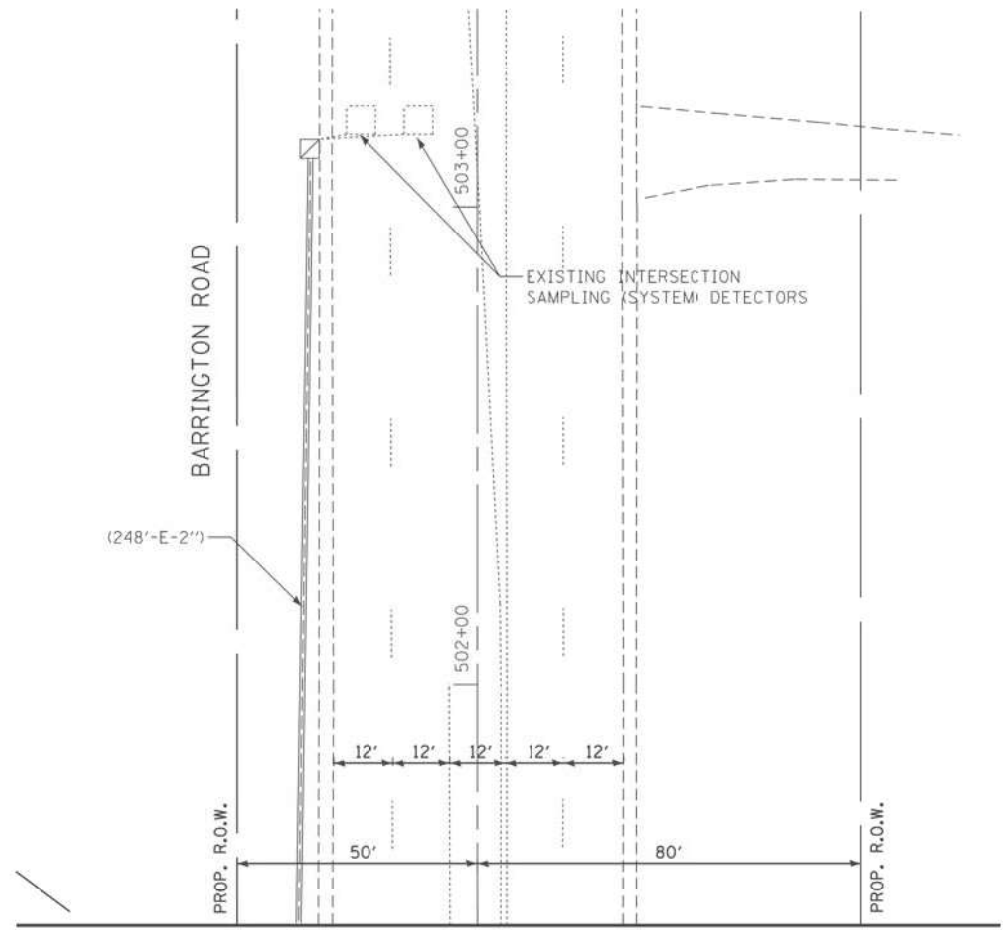
USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION #47			
IL RTE 62 (ALGONQUIN RD) AT BARRINGTON RD INTERSECTION PLAN			
SHEET 1			
SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	140
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\124_IL_Rte 62 at Barrington Rd.INT.dgn



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 2940
IDOT CENTRACS
FORMER ECON 95



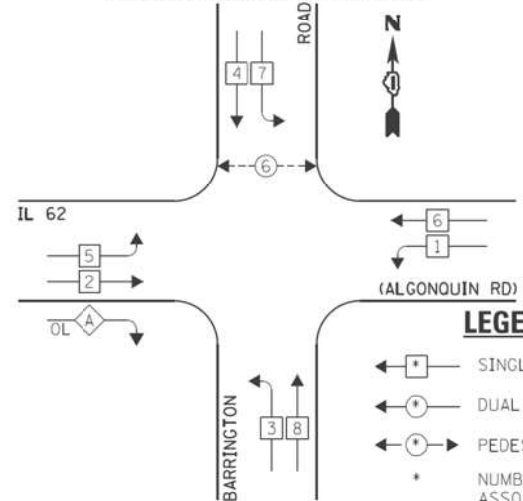
USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLLOT SCALE = 40.0000' / 1" =	DATE - 10/31/2022	REVISED -
PLLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #47			
IL RTE 62 (ALGONQUIN RD) AT BARRINGTON RD INTERSECTION PLAN			
SHEET 2			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	141
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE

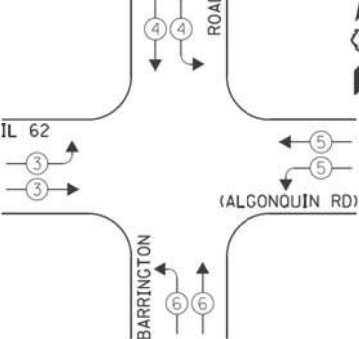


LEGEND:

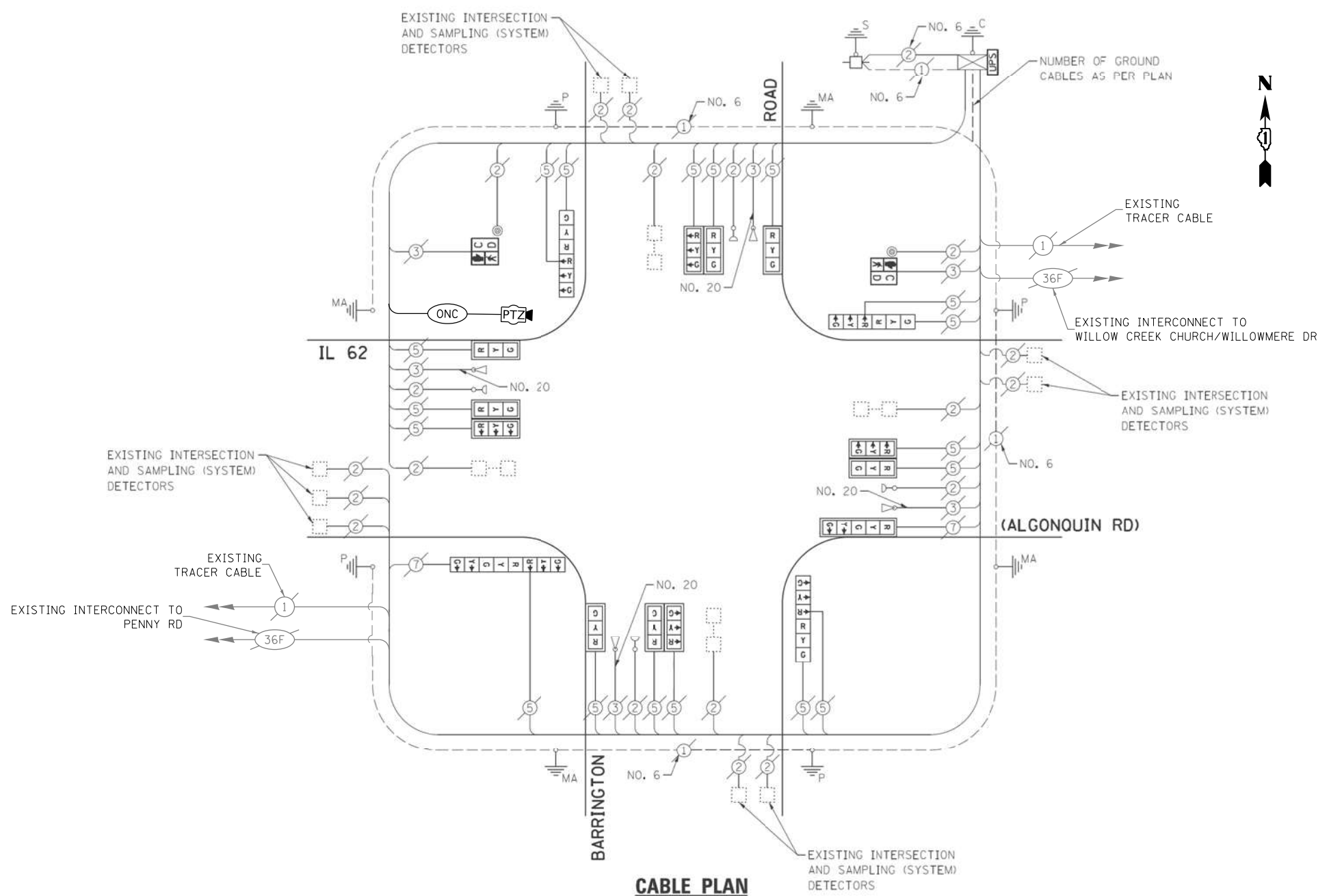
- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	←	←	→



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	105
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					549.8

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

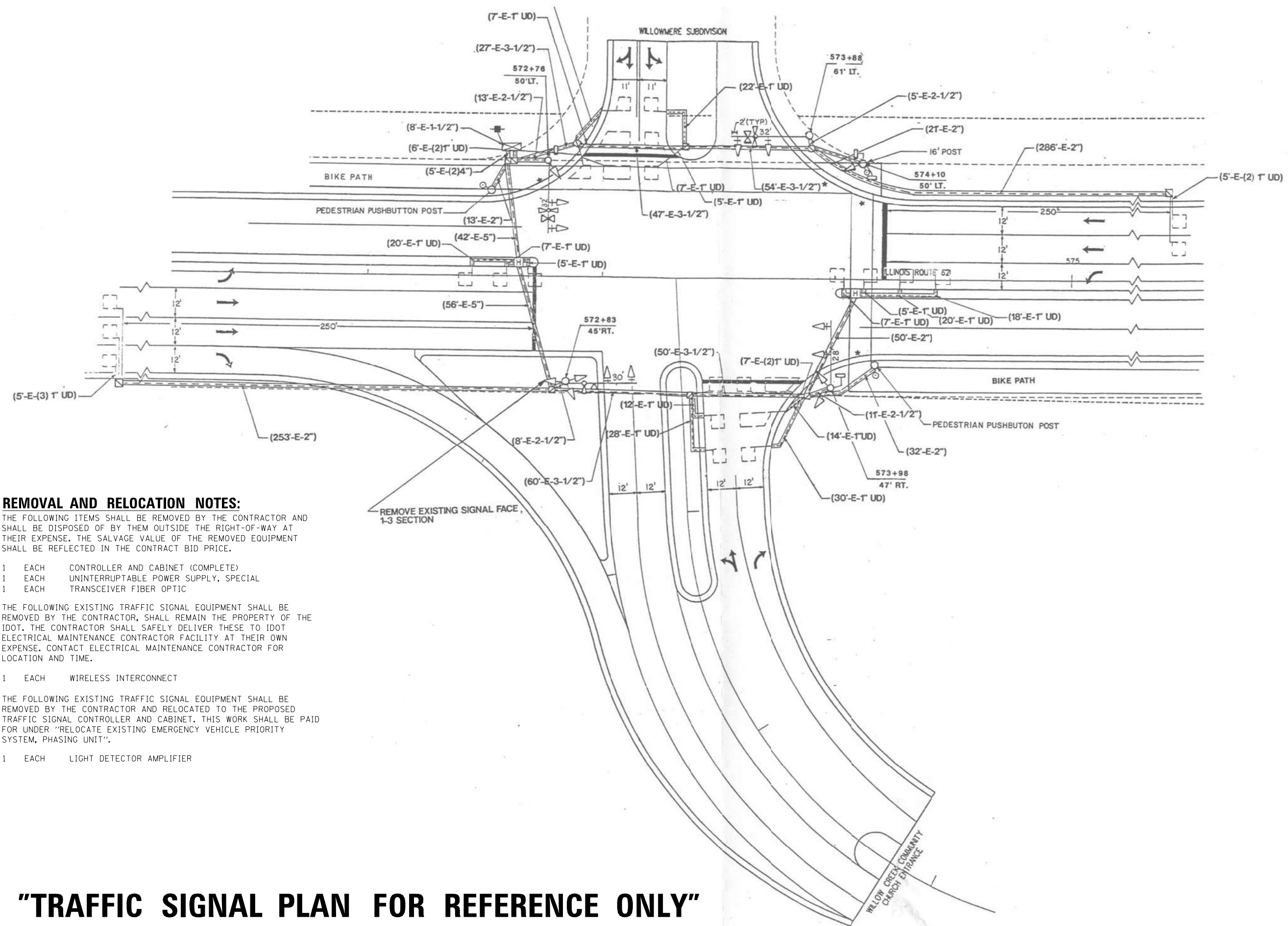
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
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LOCATION #47 IL RTE 62 (ALGONQUIN RD) AT BARRINGTON RD CABLE PLAN			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	142
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT				

**TS 2940
IDOT CENTRACS
FORMER ECON 95**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-962-IDOT-CMAD-Contracts\Phase 2\CADD\Sheets\125_IL_Rte 62 at Barrington Rd.Caddgn



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH WIRELESS INTERCONNECT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

- 1 EACH LIGHT DETECTOR AMPLIFIER

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-IDOT-0400-Contracts Phase 2\CADD\Sheets\126-IL Rte 62 at Willowmere Dr-INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISIION -
PLOT SCALE = 40.0000' / 1" =	DATE - 10/31/2022	REVISIION -
PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

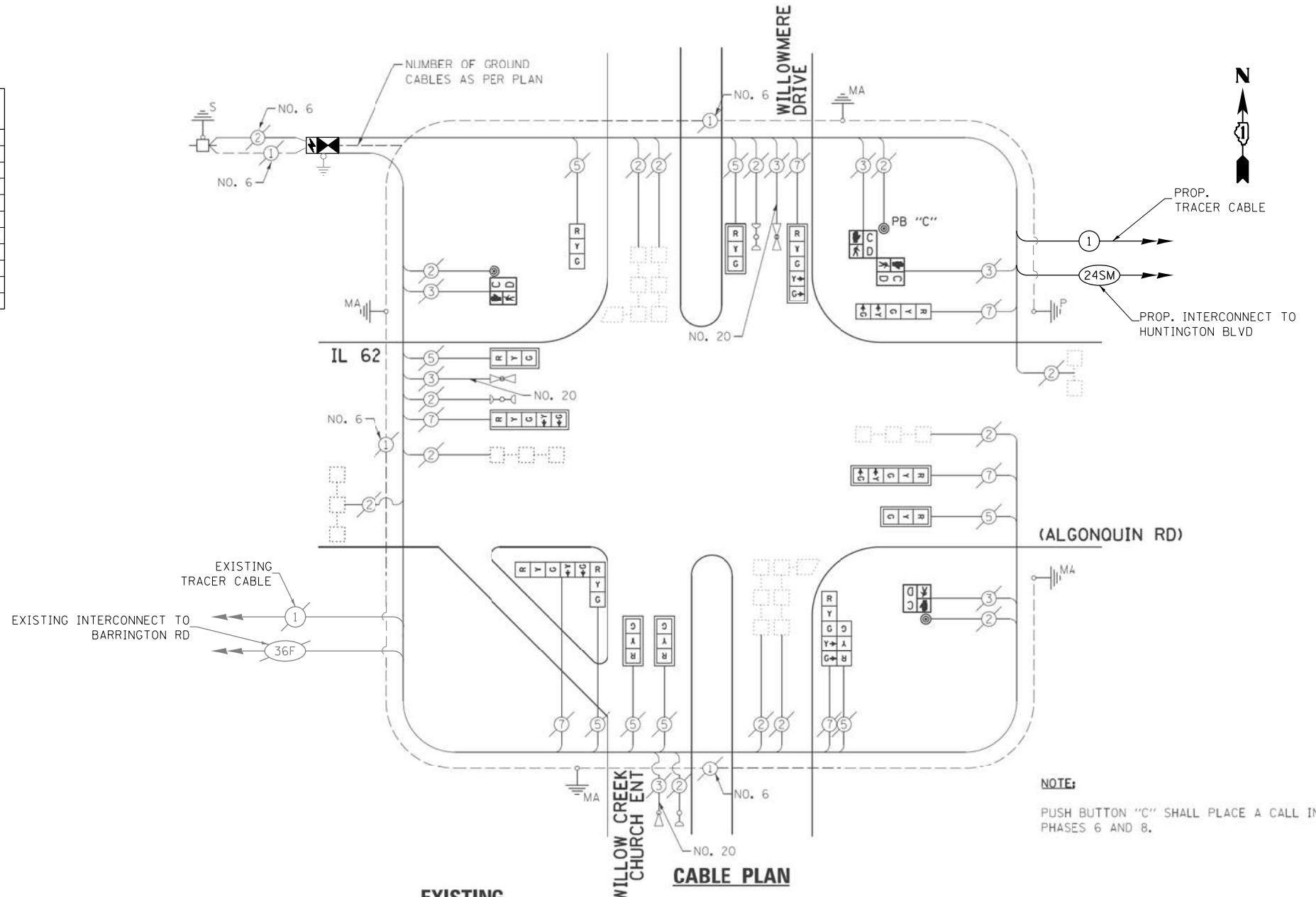
LOCATION #48
IL RTE 62 (ALGONQUIN RD) AT WILLOWMERE DR INTERSECTION PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	143
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

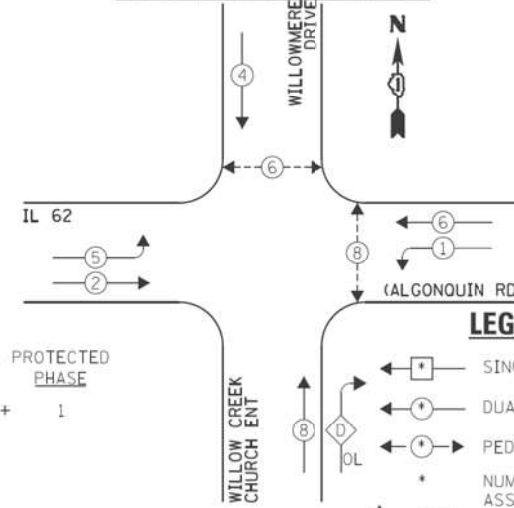
TS 22230
IDOT CENTRACS
FORMER ECON 95

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	8
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	6
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1



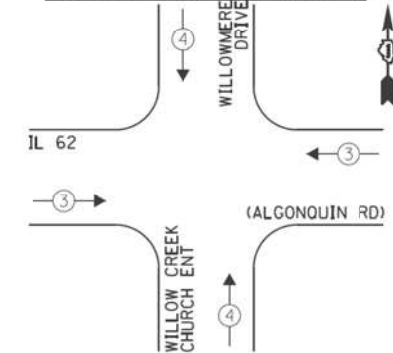
EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

OVERLAP LETTER = 8 + 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	⇌ ⇆

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	87.5
SIGNAL (GREEN)	14	135	15	0.25	52.5
ARROW	12	135	12	0.10	14.4
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					498.4

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #48
IL RTE 62 (ALGONQUIN RD) AT WILLOWMERE DR CABLE PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	144
CONTRACT NO. 62T54				

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-IDD1.CM00.Centrac\Phase 2\CADD\Sheets\127-IL_Rte 62 at Willowmere Dr_CD.dgn

GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

TS 22230
IDOT CENTRACS
FORMER ECON 95

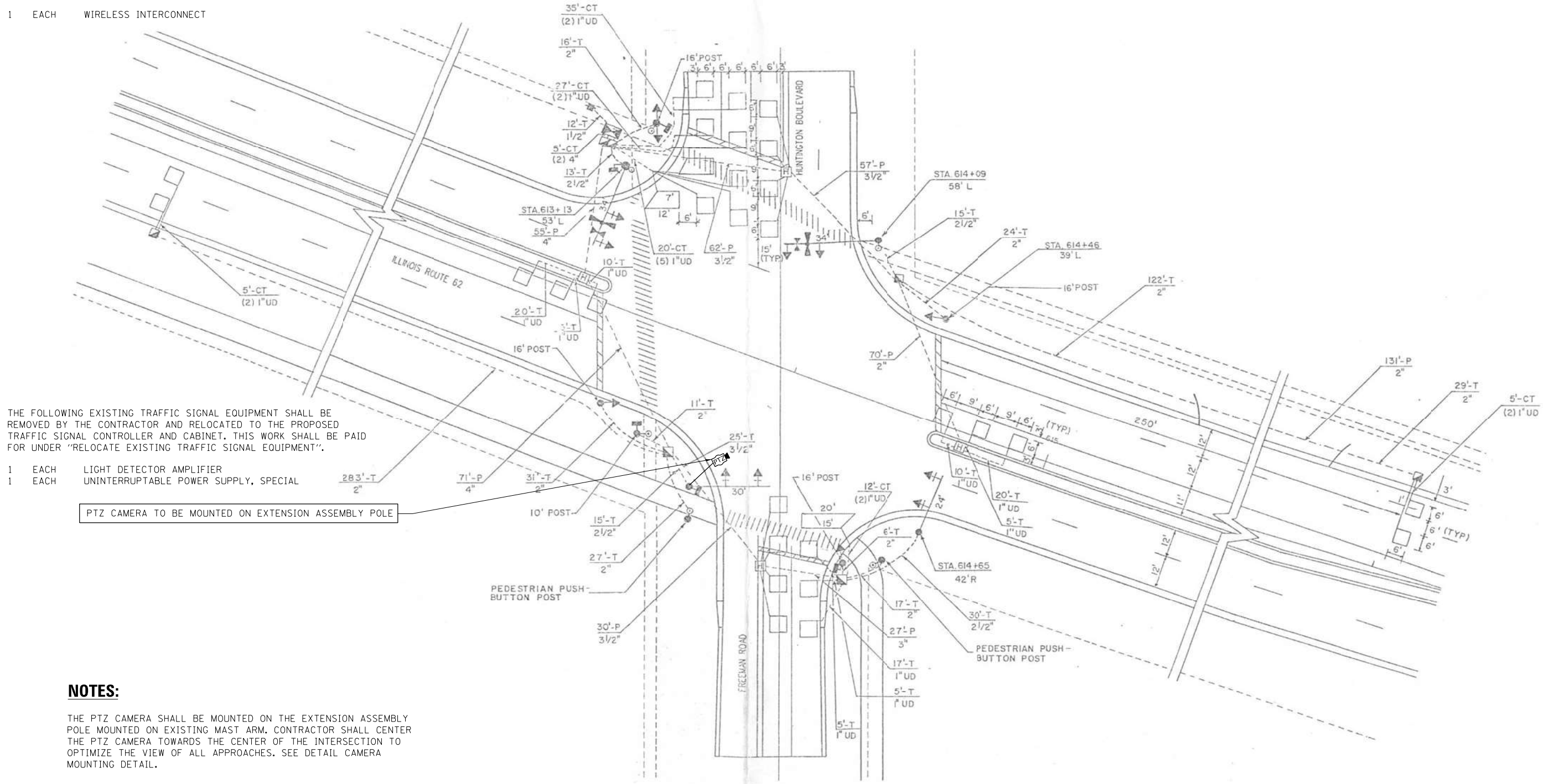
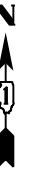
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH WIRELESS INTERCONNECT



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

PTZ CAMERA TO BE MOUNTED ON EXTENSION ASSEMBLY POLE

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

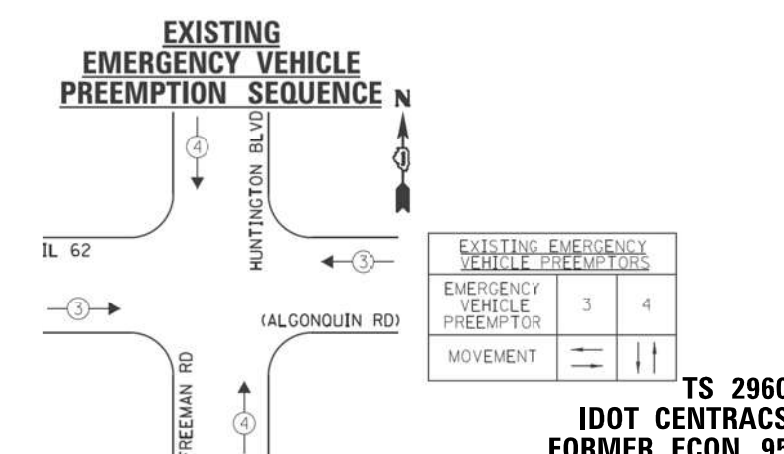
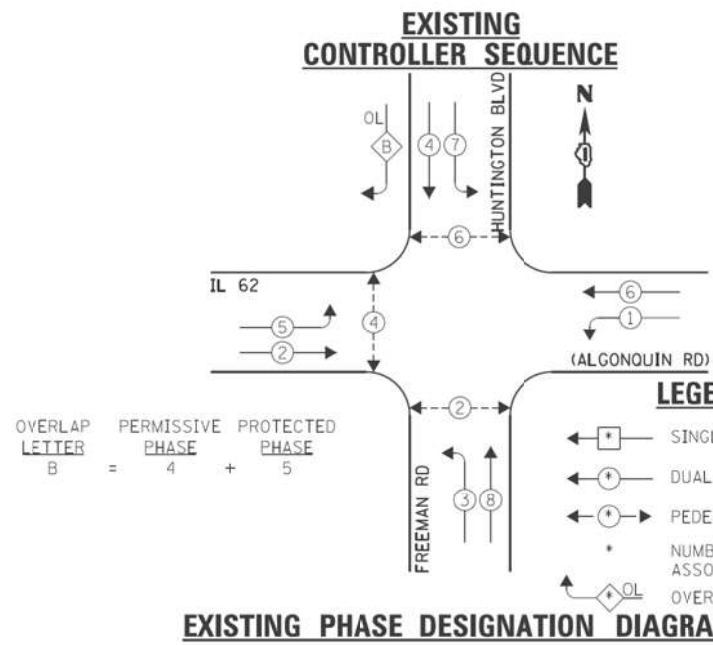
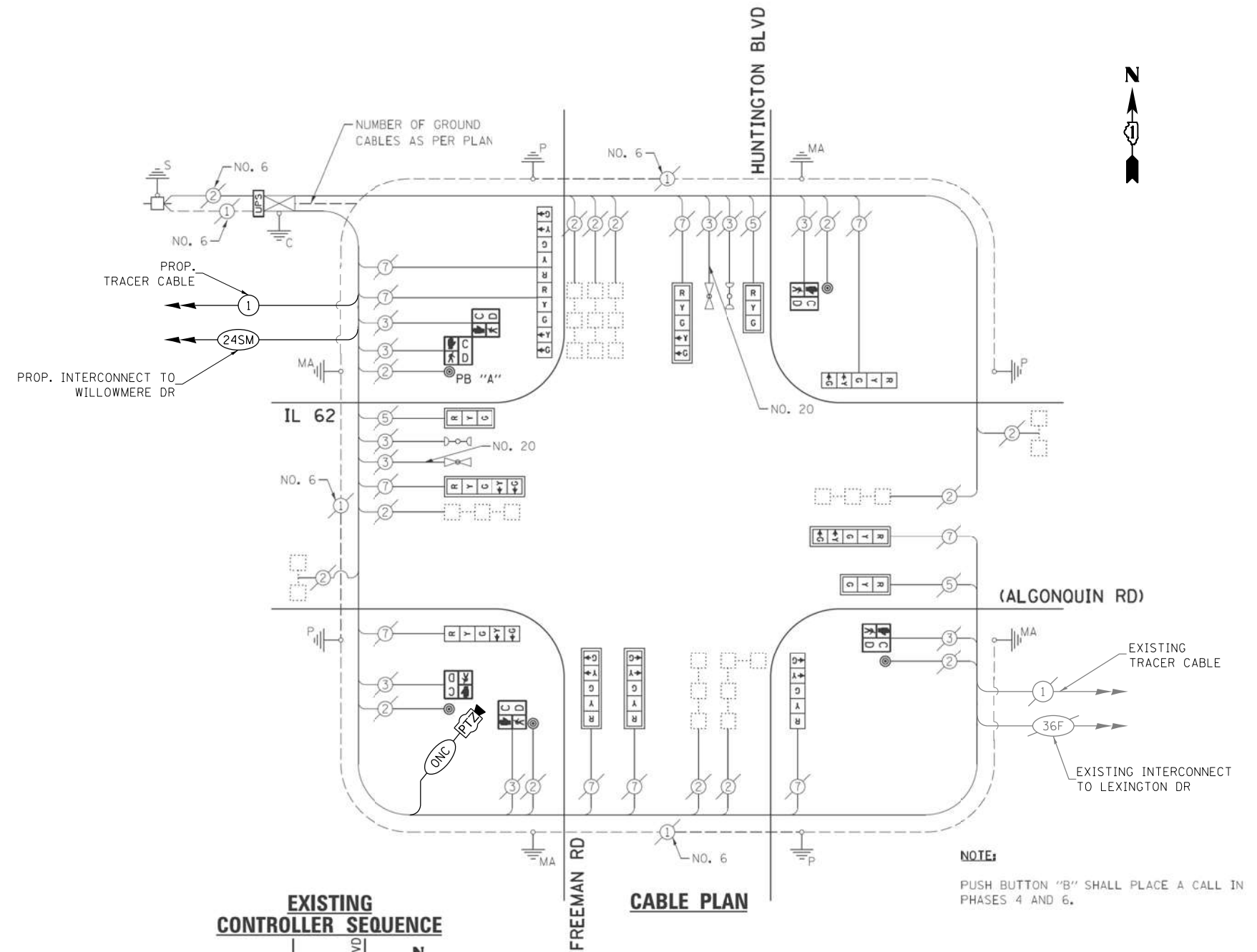
TS 2960
IDOT CENTRACS
FORMER ECON 95

K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD\Sheets\28_IL_Rte 62 at Huntington Blvd_INT.dgn

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #49 IL RTE 62 (ALGONQUIN RD) AT HUNTINGTON BLVD INTERSECTION PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.	VAR	2023 TRAFFIC 02	VARIOUS	306	145
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -		FED. ROAD DIST. NO. -	ILLINOIS		FED. AID PROJECT						CONTRACT NO. 62T54		

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	9
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	234
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	6
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-IDOT-CM00-Centrac's Phase 2\CADD_Sheets\129_IL_Rte 62 at Huntington Blvd_CD.dgn

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	81.25
SIGNAL (GREEN)	13	135	15	0.25	48.75
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					537.1

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5055 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USERS	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #49
IL RTE 62 (ALGONQUIN RD) AT HUNTINGTON BLVD CABLE PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	146
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

TS 2960
IDOT CENTRACS
FORMER ECON 95

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

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

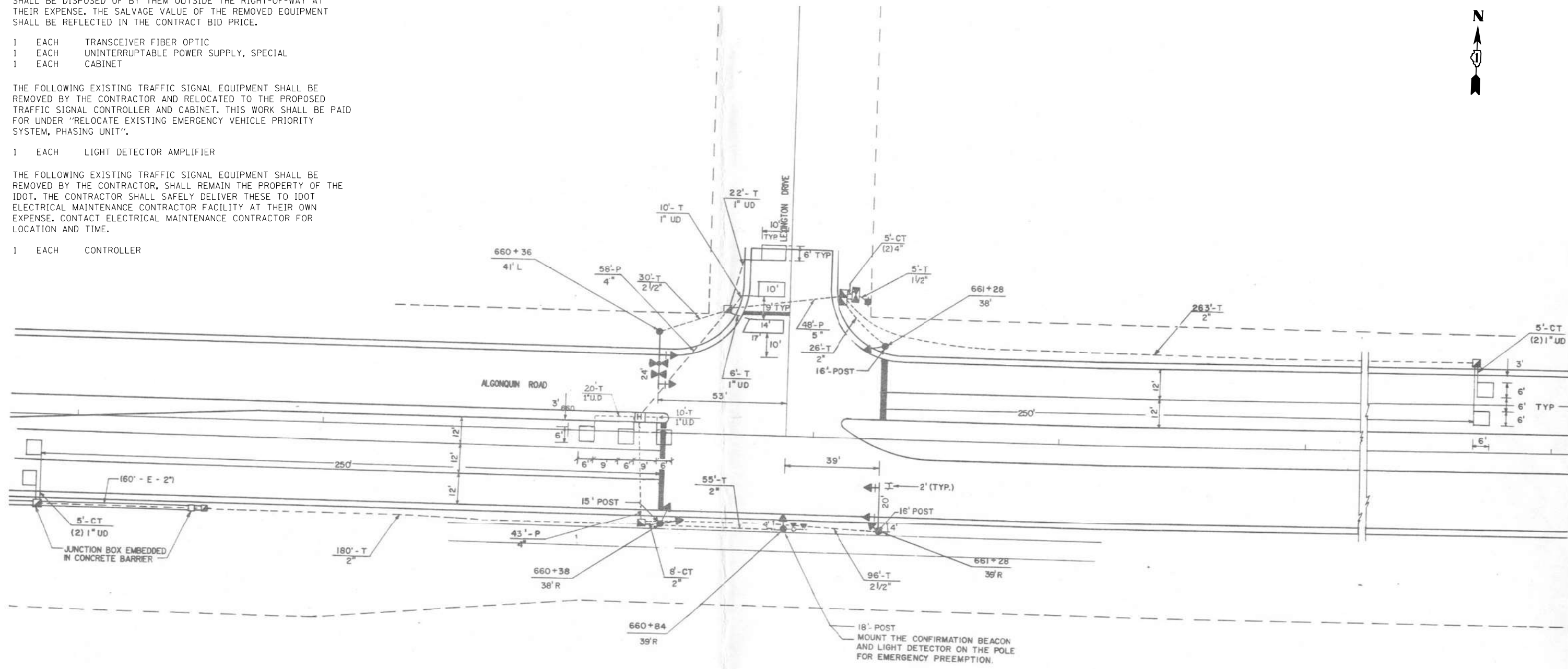
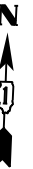
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH CABINET

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

- 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH CONTROLLER



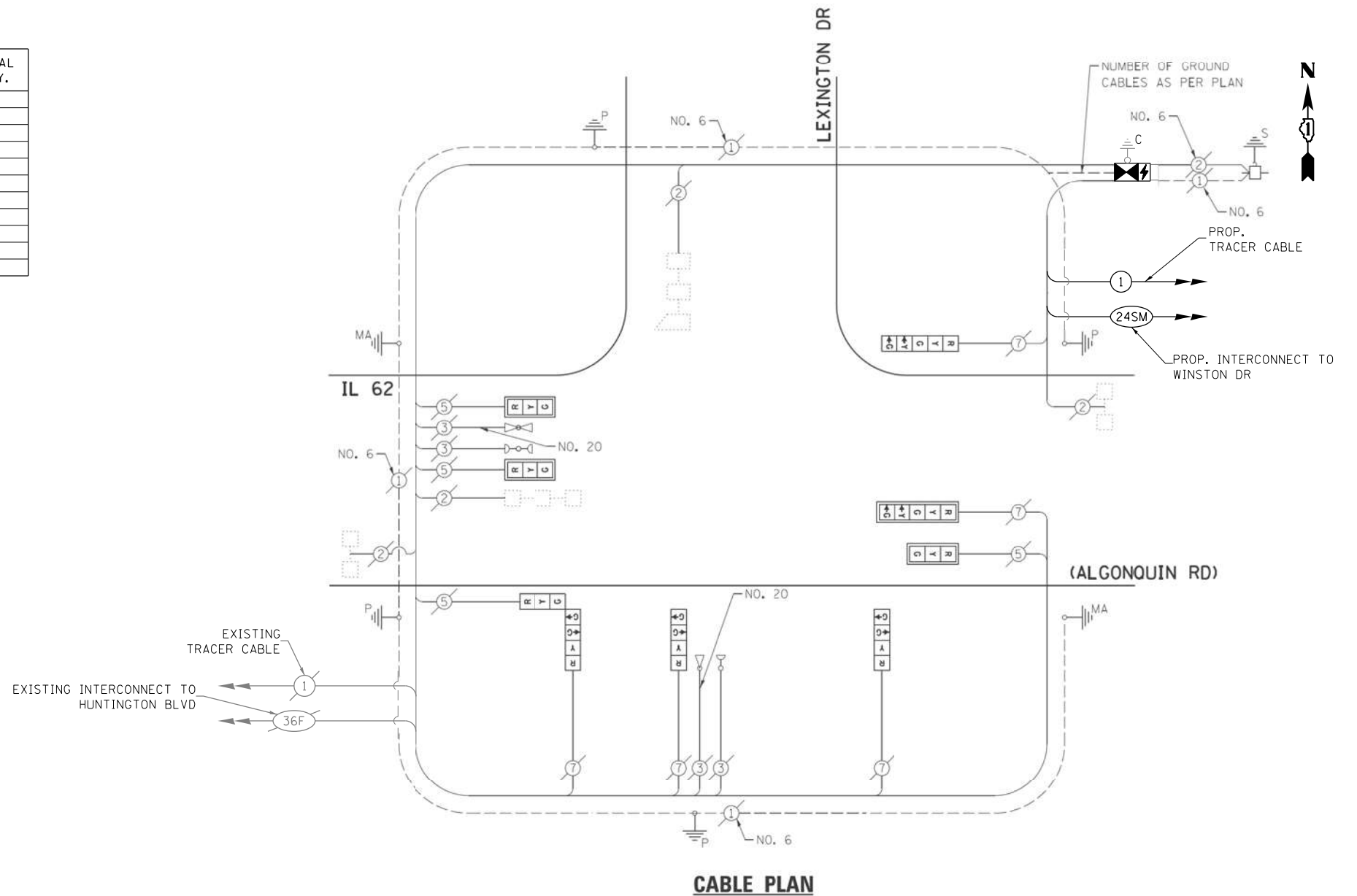
K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD\Sheets\130-IL Rte 62 at Lexington Dr-INT.dgn

TS 7655
IDOT CENTRACS
FORMER ECON 95

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60639 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #50 IL RTE 62 (ALGONQUIN RD) AT LEXINGTON DR INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISIED -		REVISIED -	SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC Q2	VARIOUS	306
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISIED -	REVISIED -								CONTRACT NO. 62T54		FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

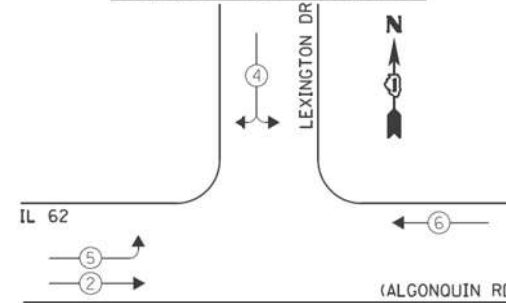
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	6
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

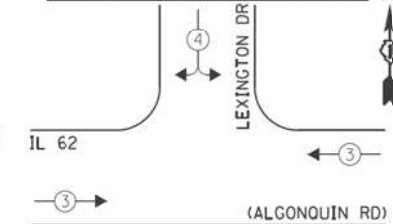


CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

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

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	9	135	17	0.50	76.5
SIGNAL (YELLOW)	9	135	25	0.25	56.25
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	-	135	12	0.10	-
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					302.75

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / IN.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #50
IL RTE 62 (ALGONQUIN RD) AT LEXINGTON DR CABLE PLAN**

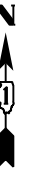
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	148
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 7655
IDOT CENTRACS
FORMER ECON 95**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-101.CM40_Centracs_Phase 2\CADD_Sheets\131.11_Rte 62 at Lexington Dr.-.CD.dgn

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



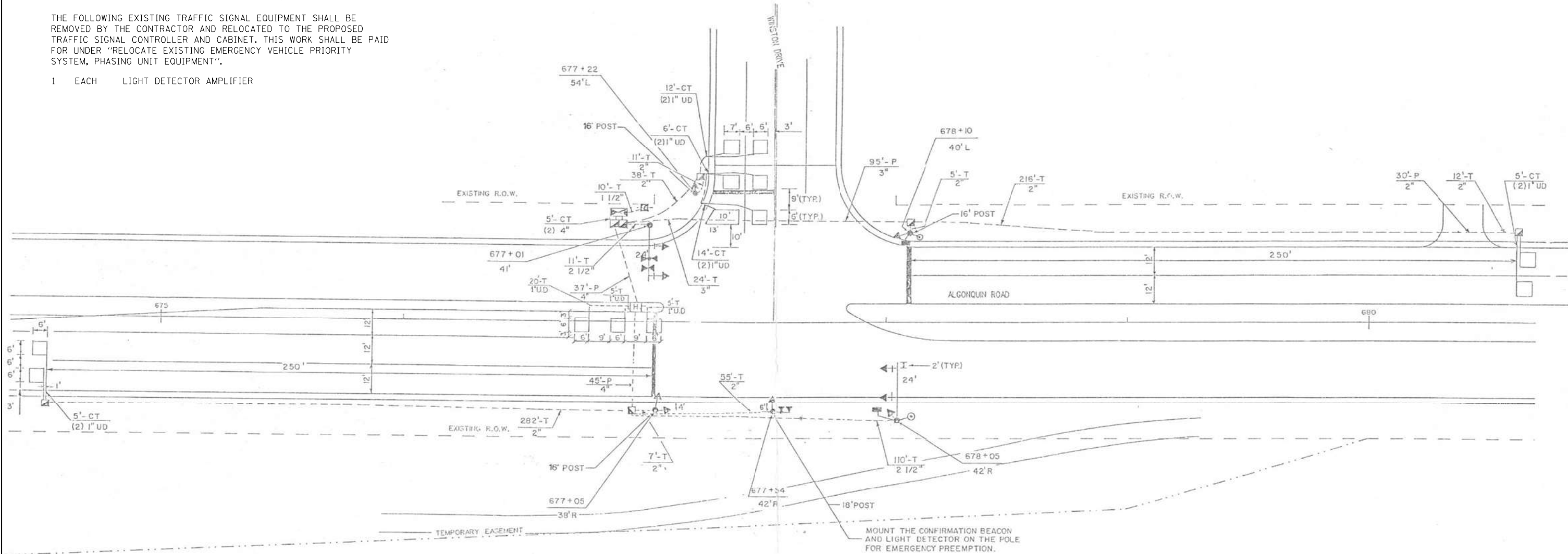
REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT EQUIPMENT".

- 1 EACH LIGHT DETECTOR AMPLIFIER



K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\ICADD_Sheets\122_IL_Rte 62 at Winston Dr_INT.dgn

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60639 TEL: (773) 774-590

USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE*		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #51
IL RTE 62 (ALGONQUIN RD) AT WINSTON DR INTERSECTION PLAN**

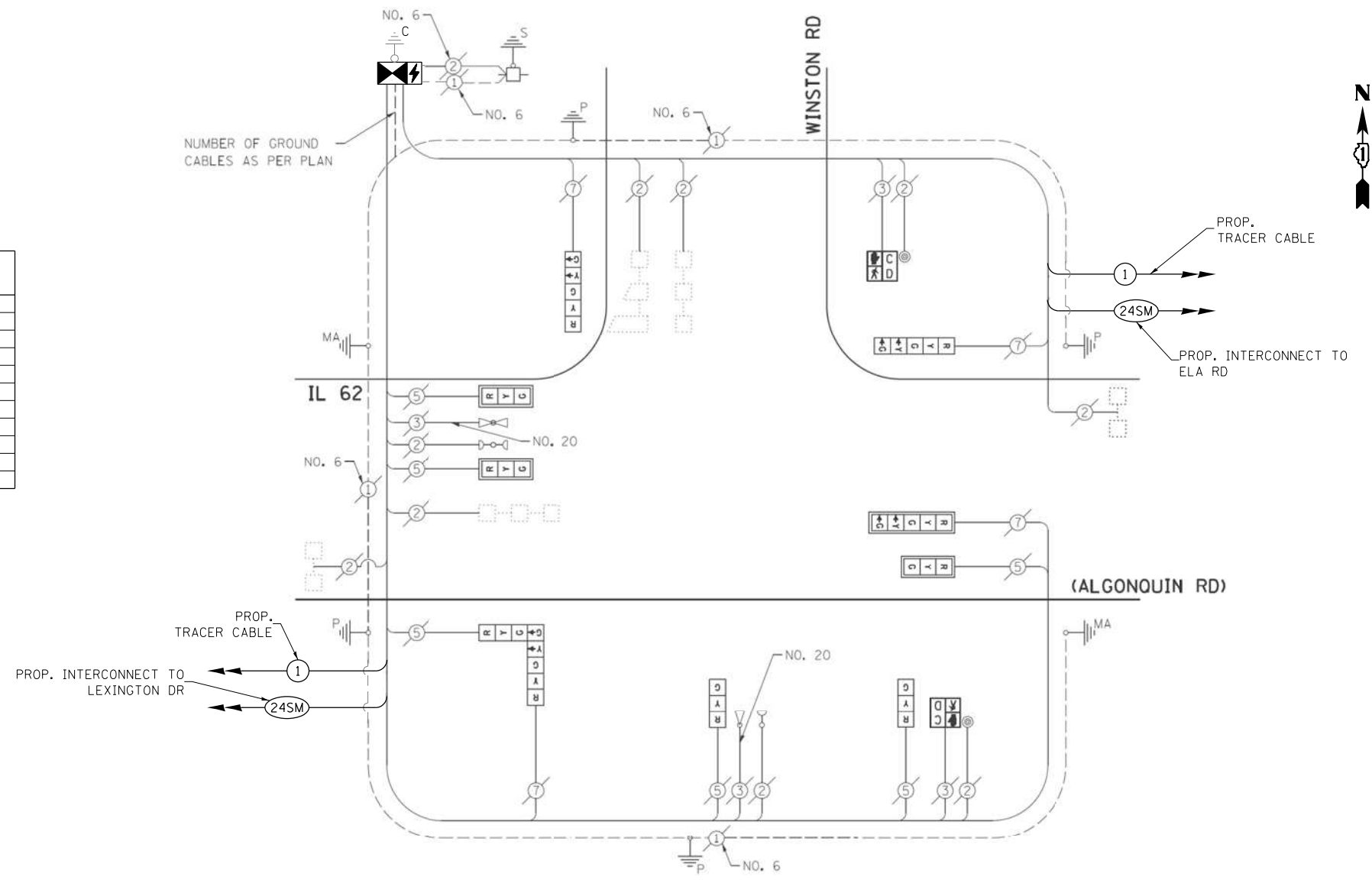
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	149
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 2957
IDOT CENTRACS
FORMER ECON 95**

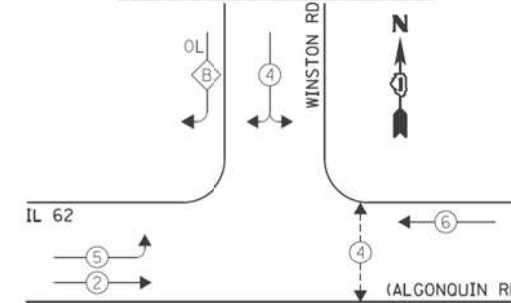
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	5
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

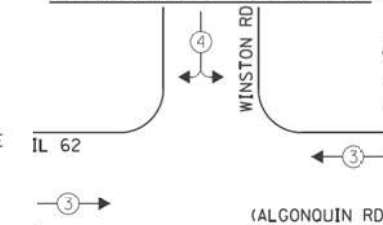


CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
 - ← * DUAL ENTRY PHASE
 - ← * → PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE
 - ← OL → OVERLAP
- OVERLAP LETTER B = 4 + 5

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

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	10	135	17	0.50	85.0
SIGNAL (YELLOW)	10	135	25	0.25	62.5
SIGNAL (GREEN)	10	135	15	0.25	37.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					371.6

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

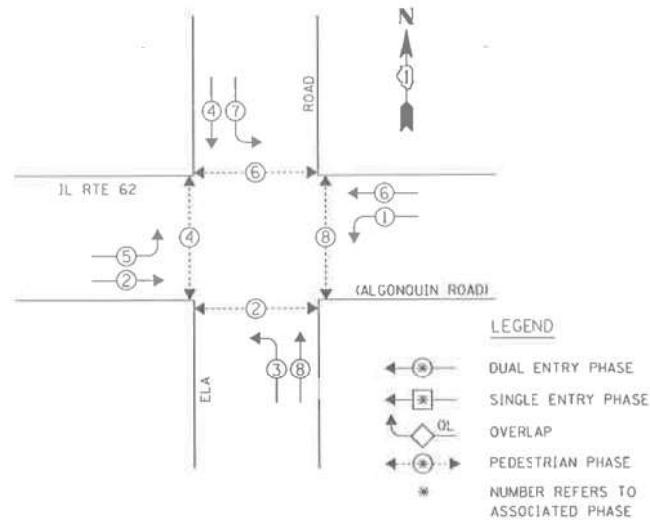
LOCATION #51
IL RTE 62 (ALGONQUIN RD) AT WINSTON DR CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

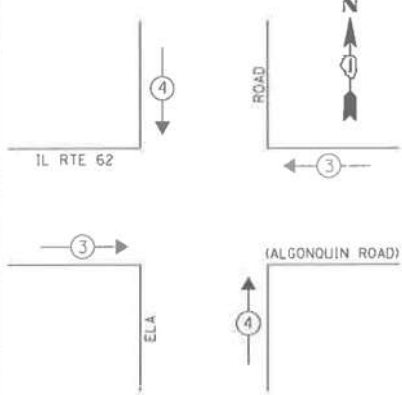
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	150
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 2957
IDOT CENTRACS
FORMER ECON 95

EXISTING SEQUENCE



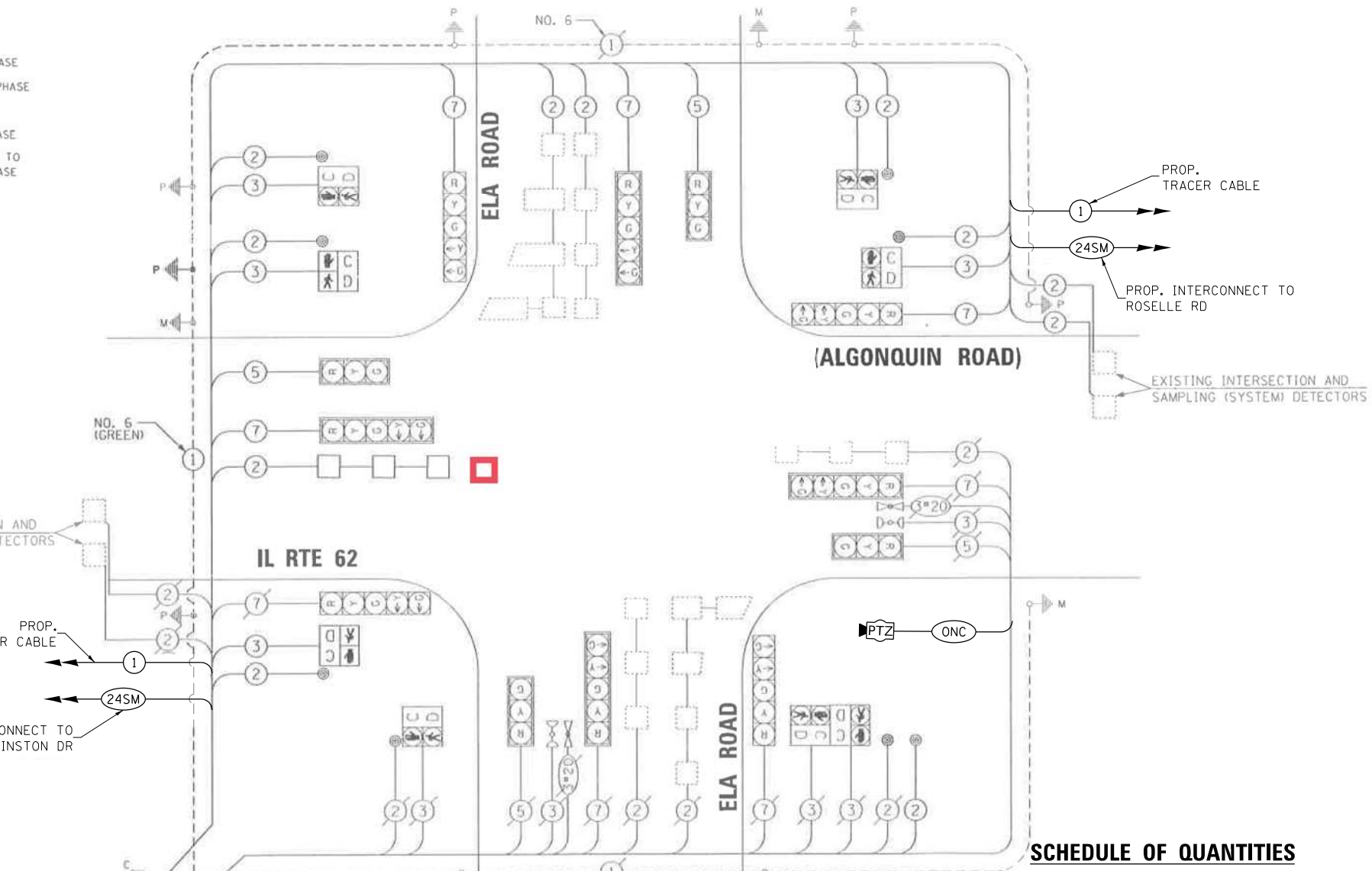
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROP. TRACER CABLE
PROP. INTERCONNECT TO WINSTON DR

PROPOSED CABLE PLAN



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	10
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	210
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

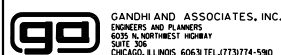
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12		11	50.00	66.00
(YELLOW)	12		20	5.00	12.00
(GREEN)	12		12	45.00	64.80
ARROW	16		10	10.00	16.00
PED. SIGNAL	8		20	100.00	160.00
CONTROLLER	1		100	100.00	100.00
ILLUM. SIGN	-				
U.P.S.	1		25	100.00	25.00

ENERGY COSTS TO: TOTAL = 443.80

VILLAGE OF HOFFMAN ESTATES

1900 HASSELL ROAD
HOFFMAN ESTATES, IL 60169

ENERGY SUPPLY: CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMED



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #52
IL RTE 62 (ALGONQUIN RD) AT ELA RD CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	152
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 2955
IDOT CENTRACS
FORMER ECON 95**

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

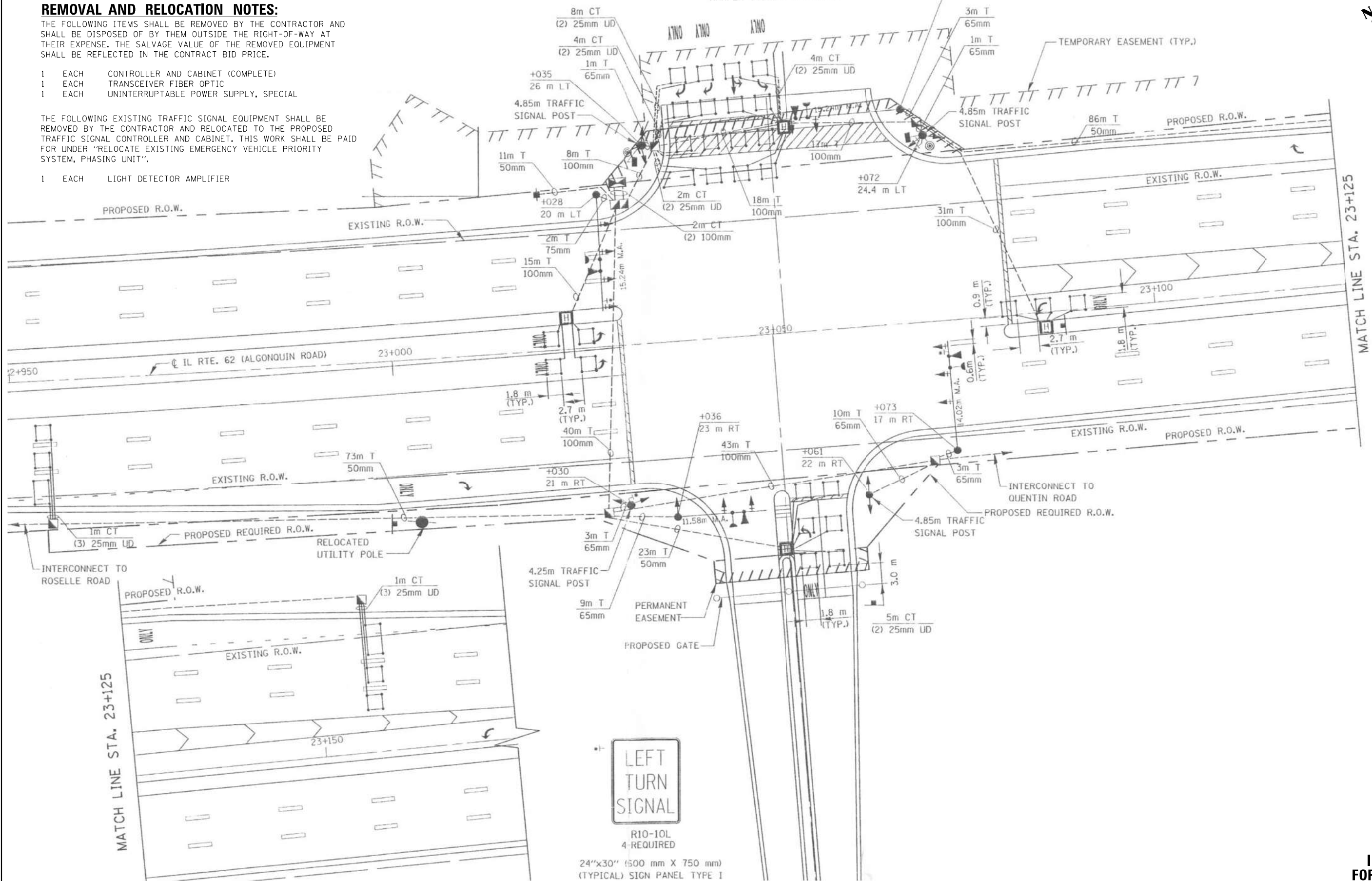
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

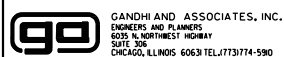
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

- 1 EACH LIGHT DETECTOR AMPLIFIER

HARPER COLLEGE ENTRANCE



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\126_IL_Rte 62 at Harper College Dr_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

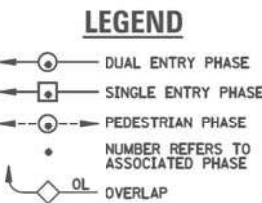
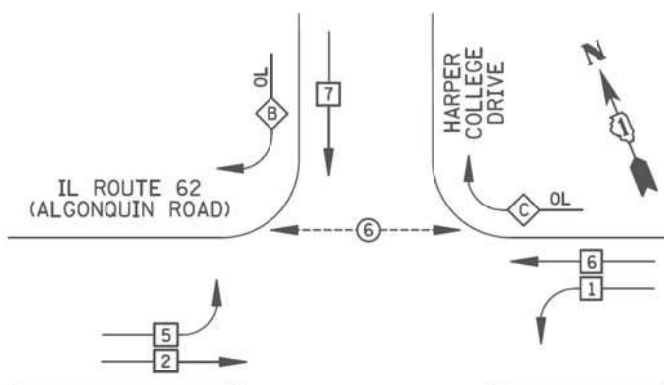
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #53
IL RTE 62 (ALGONQUIN RD) AT HARPER COLLEGE DR INTERSECTION PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	153
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 2970
IDOT CENTRACS
FORMER ECON 96

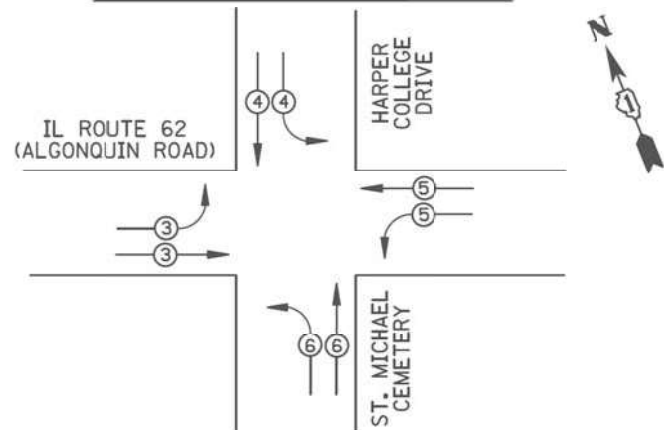
EXISTING CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	=	+
C	=	+
		5
		7

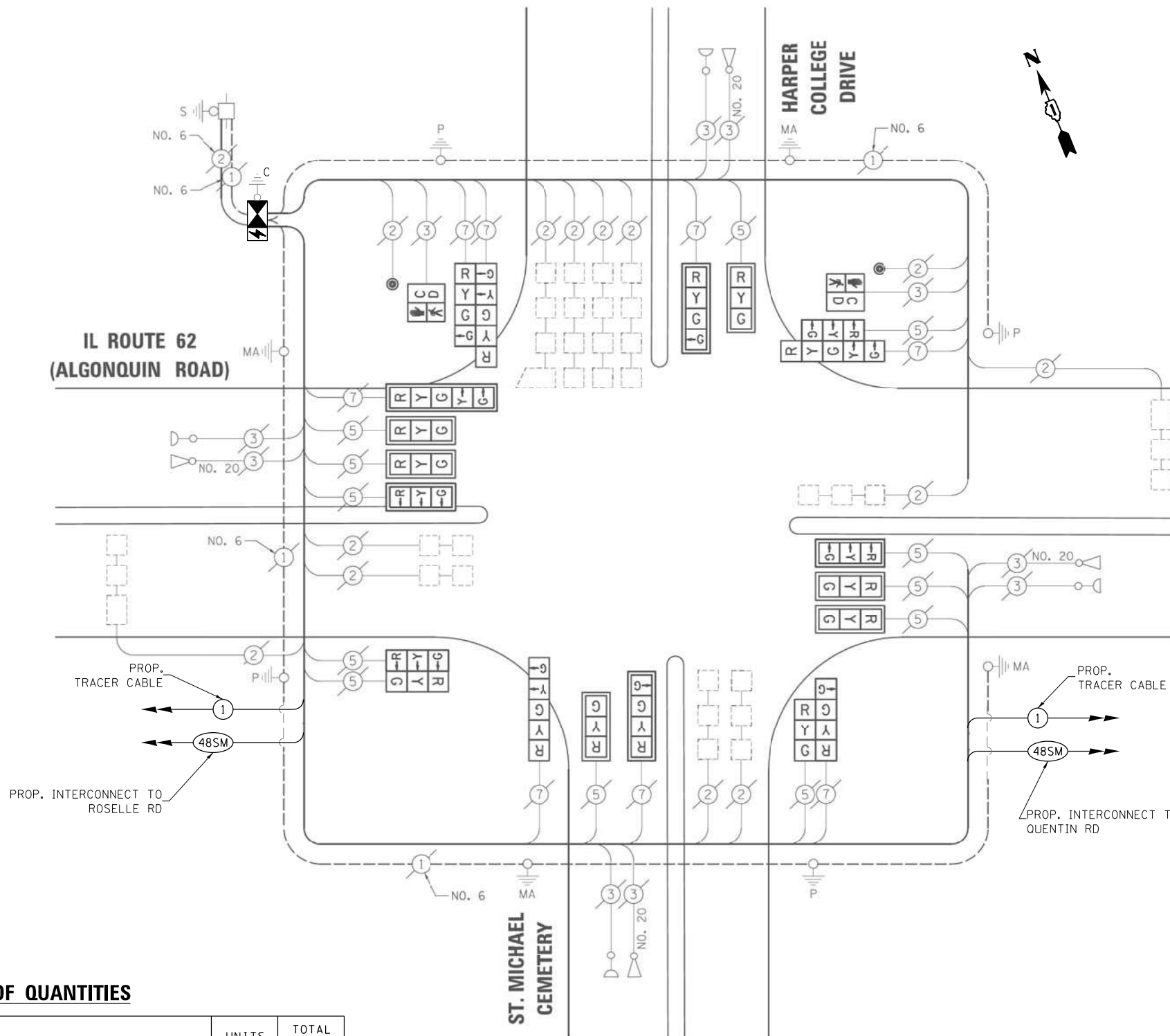
EXISTING PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	↘	↗

IL ROUTE 62 (ALGONQUIN ROAD)



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	11
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND. LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	135 17	0.50	170
(YELLOW)	20	135 25	0.25	125
(GREEN)	24	135 15	0.25	90
ARROW	8	135 12	0.10	9.6
PED. SIGNAL	2	90 25	1.00	50
CONTROLLER	1	100 100	1.00	100
ILLUM. SIGN		84	0.05	
FLASHER		135 25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096				TOTAL = 544.6

ENERGY SUPPLY CONTACT: X
PHONE: X
COMPANY: X

USER NAME = \$USER\$
DESIGNED - EA
DRAWN - EA, AV
PLOT SCALE = 40.0000' / 1".
CHECKED - MS
DATE - 10/31/2022

REVISED - 12-2-2022
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #53 IL RTE 62 (ALGONQUIN RD) AT HARPER COLLEGE DR CABLE PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	154
CONTRACT NO. 62T54				

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

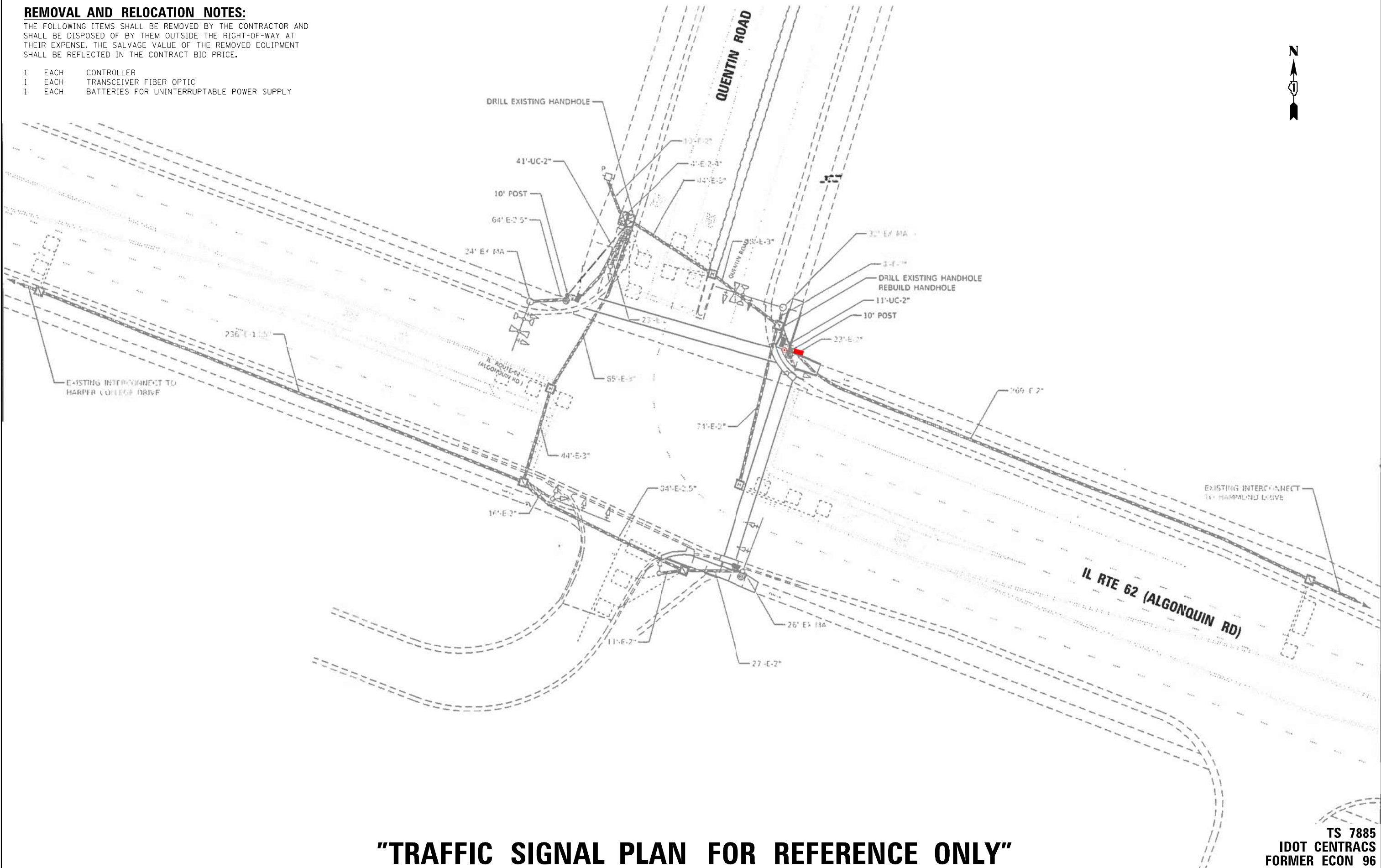
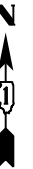
TS 2970 IDOT CENTRACS FORMER ECON 96

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\137-IL Rte 62 at Harper College Dr-ED.dgn

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 7885
IDOT CENTRACS
FORMER ECON 96**

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\138_IL_Rte 62 at Quentin Rd_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE\$		

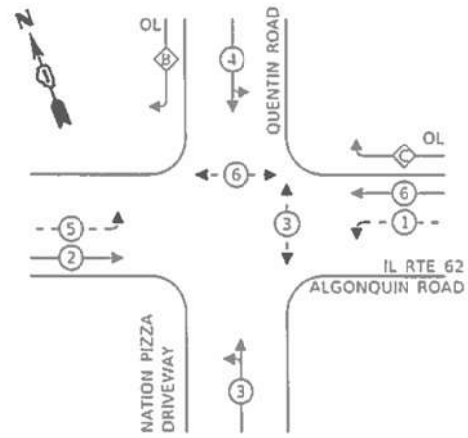
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #54
IL RTE 62 (ALGONQUIN RD) AT QUENTIN RD INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	155
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



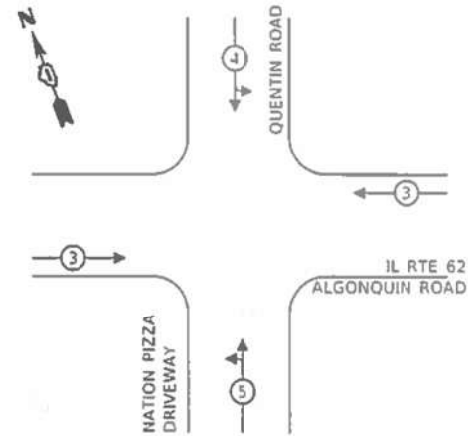
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	19	12	45	102.6
PERMISSIVE ARROW	16	12	10	19.2
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				424.3

ENERGY COSTS TO:

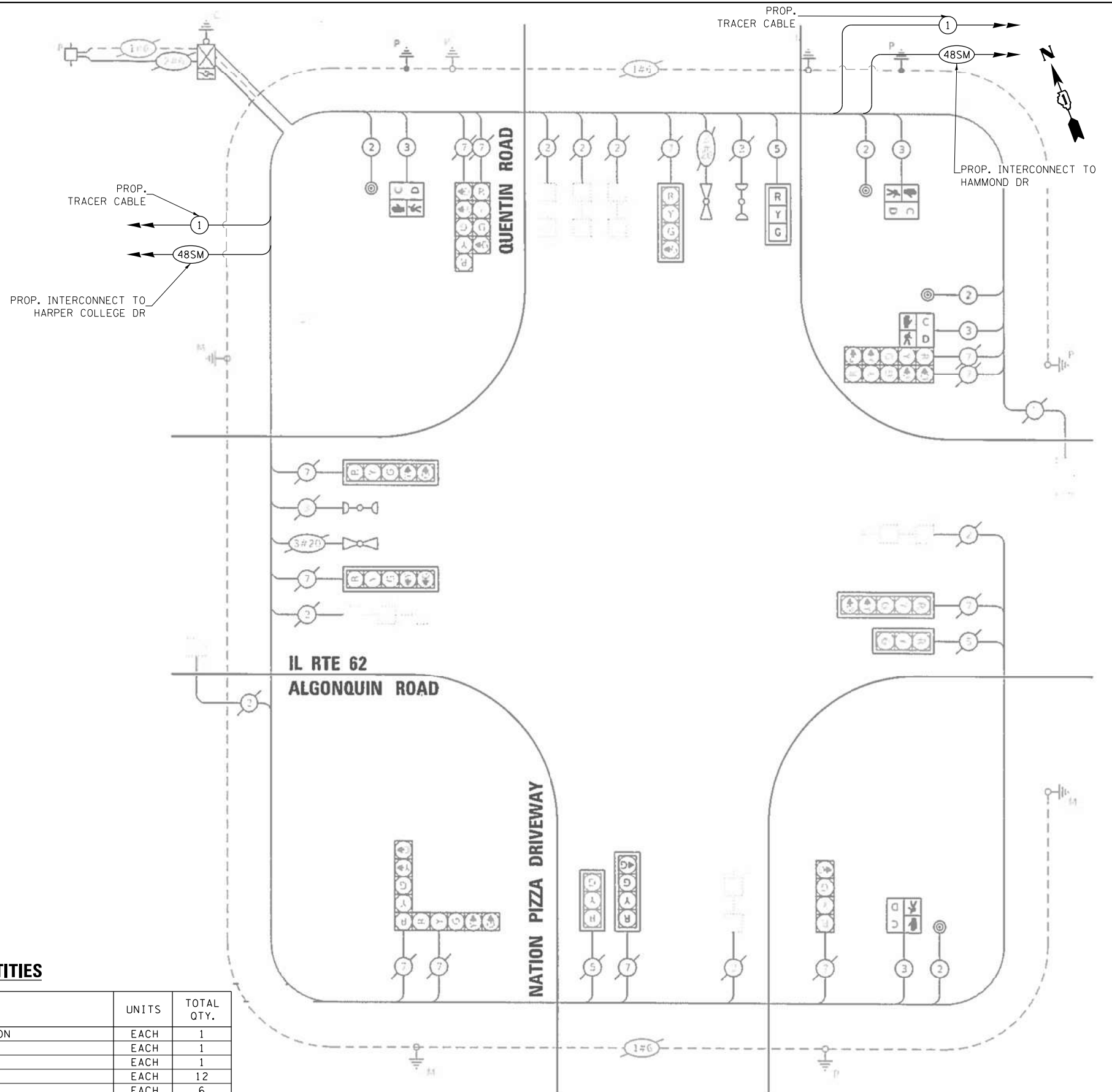
VILLAGE OF SCHAUMBURG

101 SCHAUMBURG COURT,
SCHAUMBURG, IL 60193-1878

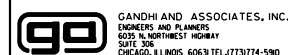
ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: _____
ACCOUNT NUMBER: _____

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



CABLE PLAN



USER NAME = #USER#
DESIGNED - EA
DRAWN - EA, AV
PLOT SCALE = 40.0000' / in.
CHECKED - MS
DATE - 10/31/2022
REVISOR -
REVISOR -
REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #54
IL RTE 62 (ALGONQUIN RD) AT QUENTIN RD CABLE PLAN

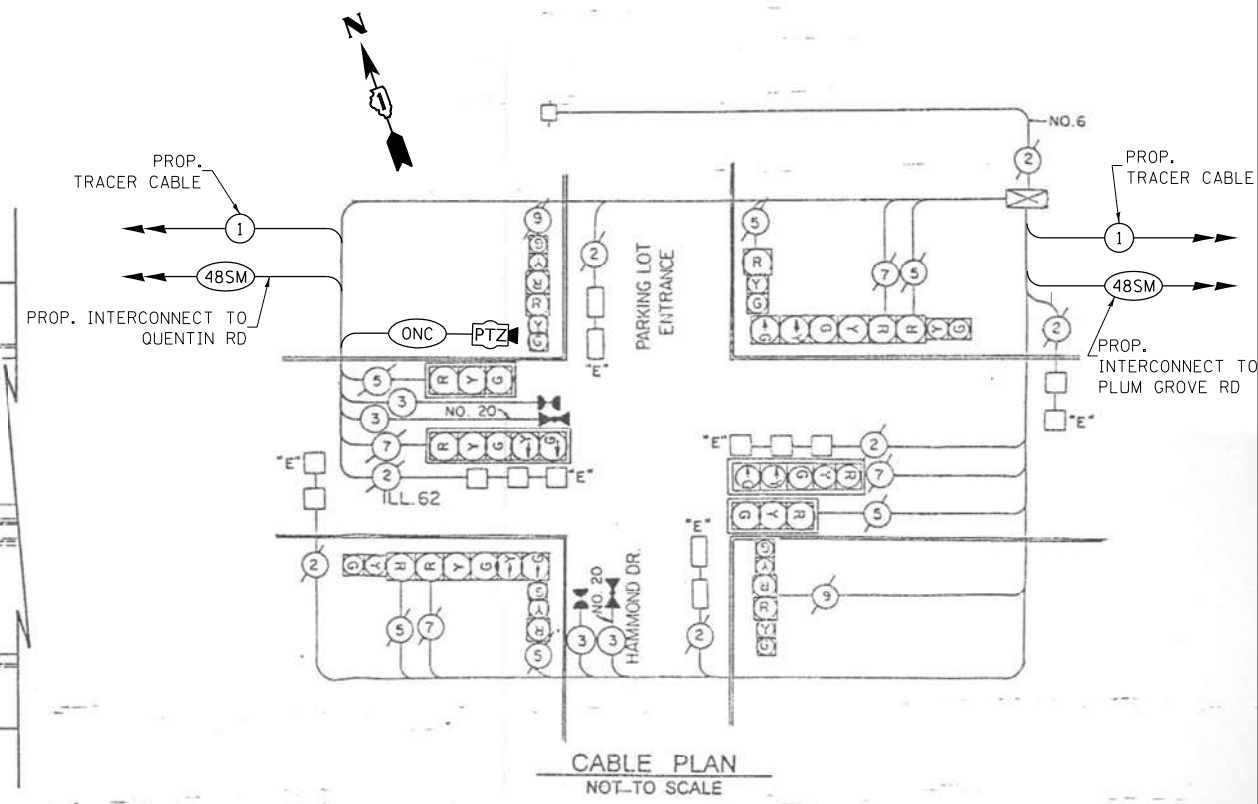
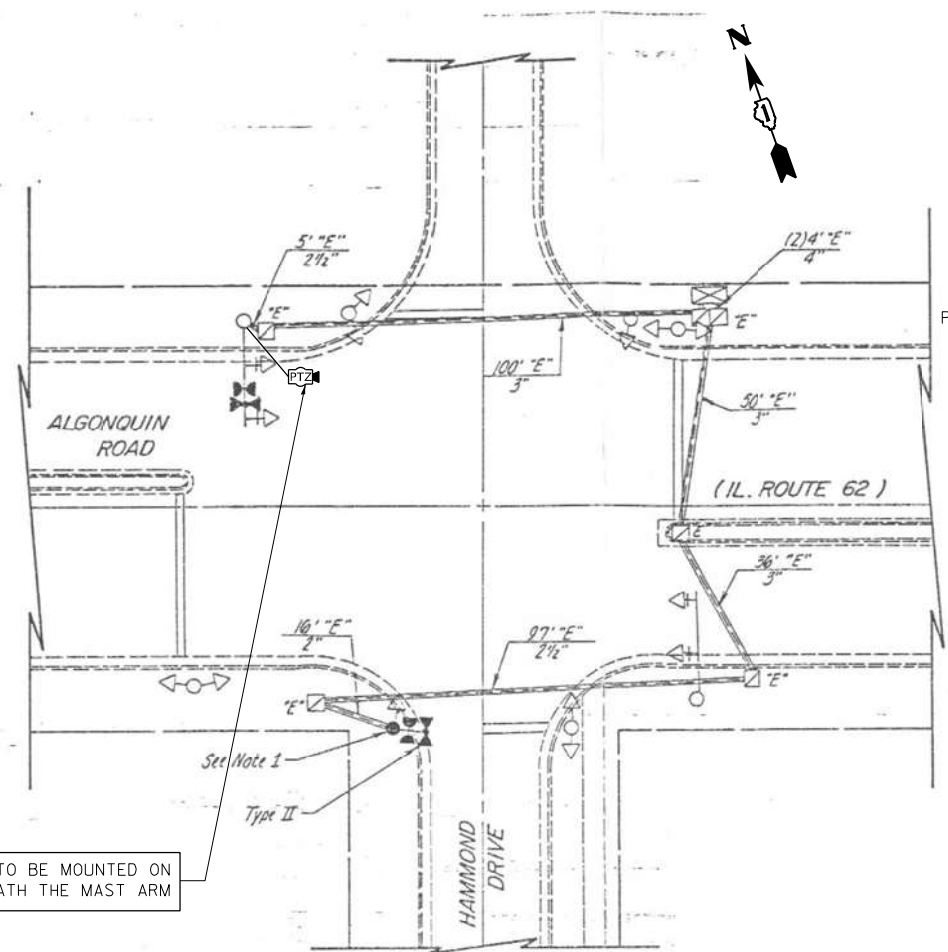
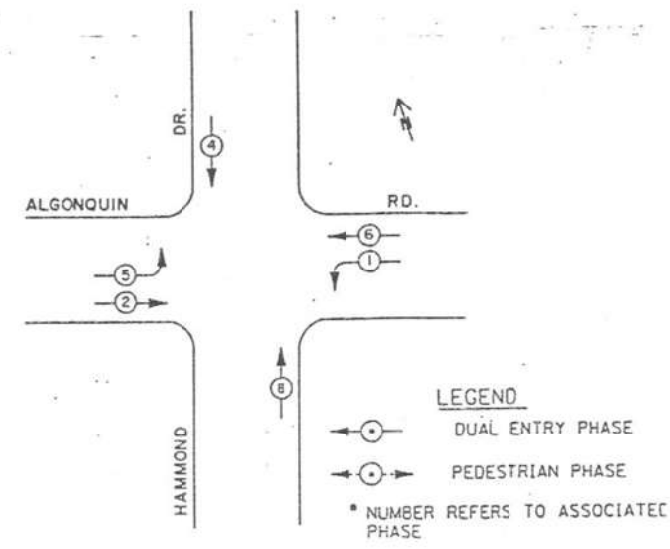
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	156
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

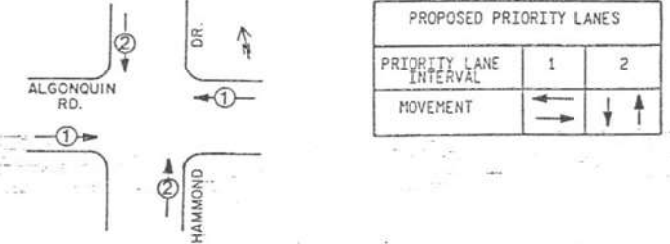
**TS 7885
IDOT CENTRACS
FORMER ECON 96**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-1001.CM00.Contracts.Phase 2\CADD\Sheets\139_IL_Rte 62 at Quentin Rd_CD.dgn

K:\PROJECTS\Projects\2022\22-ESR-562-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\148_IL_Rte 62 at Hammond Dr.-INT_CD.dgn



EMERGENCY VEHICLE PREEMPTION SEQUENCE NOTES FOR DUAL ENTRY OPERATION - ALL LEGS



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC

NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.
2. CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT XXXX. CONTRACT XXXX IS SCHEDULED AFTER CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE XXXX IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER XXXX. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	255
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

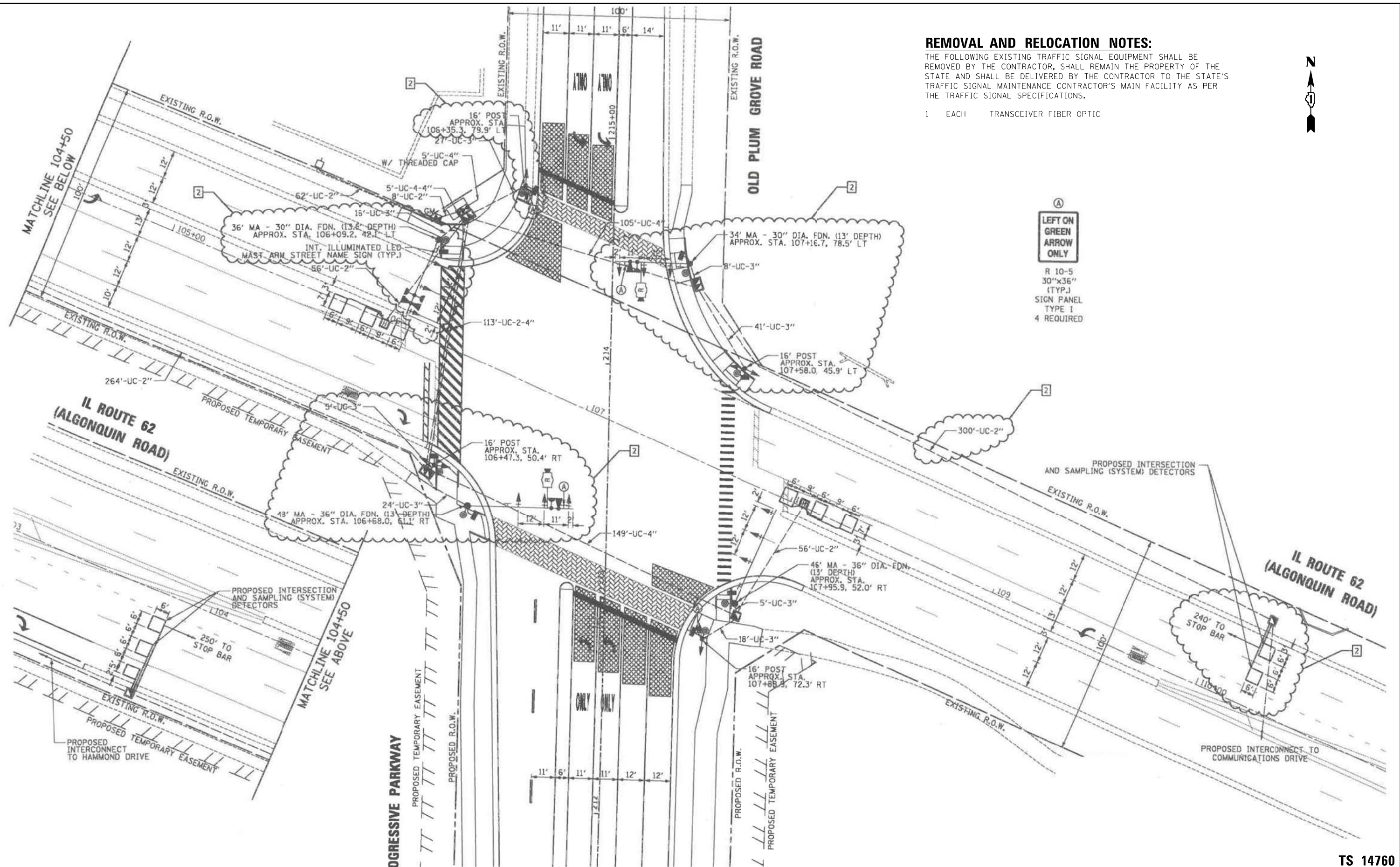
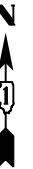
**TS 14750
 IDOT CENTRACS
 FORMER ECON 96**

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 505 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60659 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #55 IL RTE 62 (ALGONQUIN RD) AT HAMMOND DR INTERSECTION AND CABLE PLAN		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / 1" IN.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -					FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT		CONTRACT NO. 62T54			

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH TRANSCEIVER FIBER OPTIC



LEFT ON GREEN ARROW ONLY
 R 10-5
 30"x36"
 (TYP.)
 SIGN PANEL
 TYPE I
 4 REQUIRED

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 14760
 IDOT CENTRACS
 FORMER ECON 96

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\11.11.Rte 62 at Plum Grove Rd.INT.dgn

	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

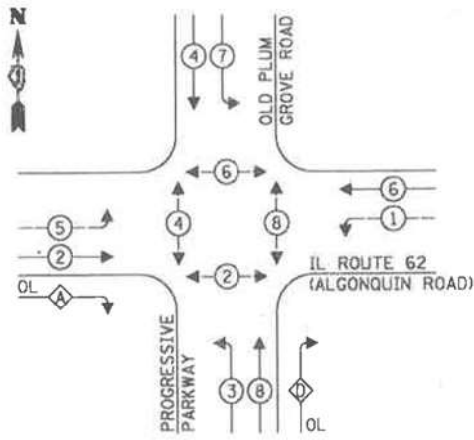
LOCATION #56	
IL RTE 62 (ALGONQUIN RD) AT PLUM GROVE RD INTERSECTION PLAN	
SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	158
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE

LEGEND:

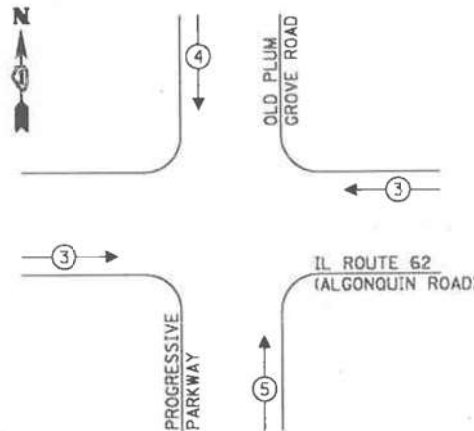
- ← ⊙ → PROTECTED PHASE
- ← ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ → OVERLAP



RIGHT TURN OVERLAP PHASE DESIGNATION:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

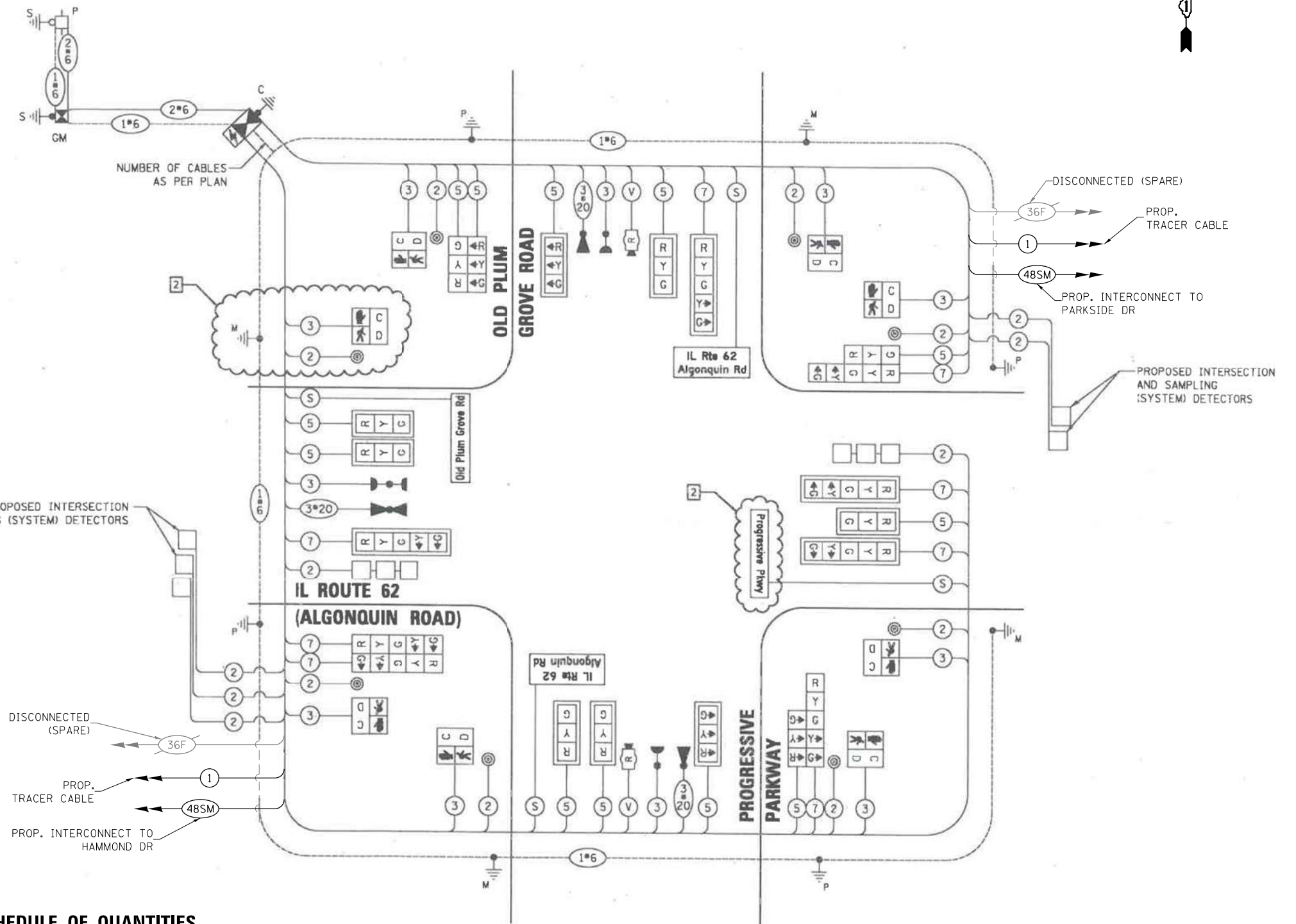
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	-	-	-	-
TOTAL =				779.0

ENERGY COSTS TO:
VILLAGE OF SCHAUMBURG
 101 SCHAUMBURG COURT
 SCHAUMBURG, IL 60193
 ENERGY SUPPLY: CONTACT: NEW BUSINESS
 PHONE: 866-639-3532
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 0245068017

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



CABLE PLAN
(NOT TO SCALE)

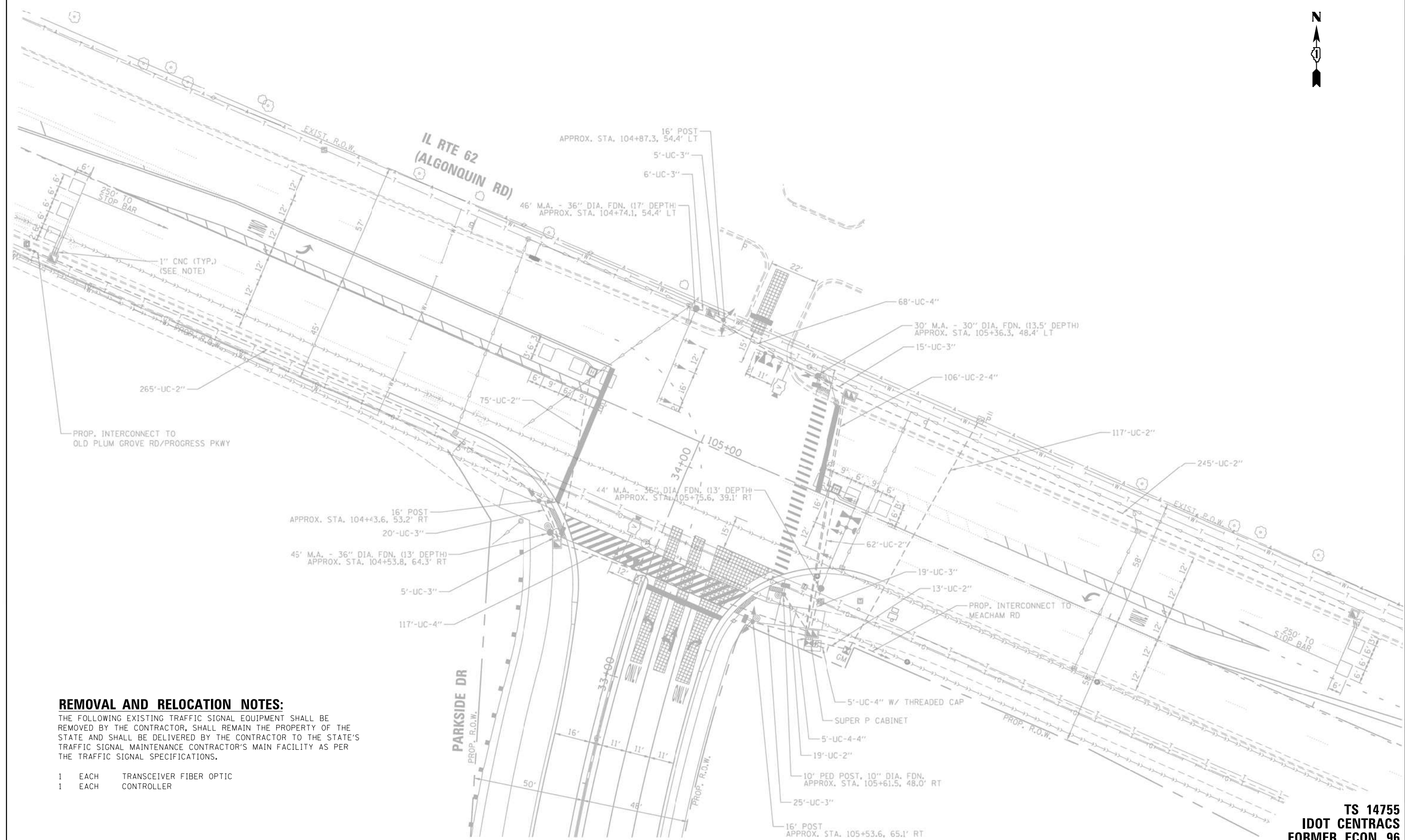
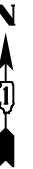
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #56
IL RTE 62 (ALGONQUIN RD) AT PLUM GROVE RD CABLE PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	159
CONTRACT NO. 62T54				

TS 14760
IDOT CENTRACS
FORMER ECON 96

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH TRANSCIEVER FIBER OPTIC
- 1 EACH CONTROLLER

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM00.Contracts Phase 2\CADD\Sheets\13_IL_Rte 62 at Parkside Dr_INT.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60631 TEL: 773.774.590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / 1"	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

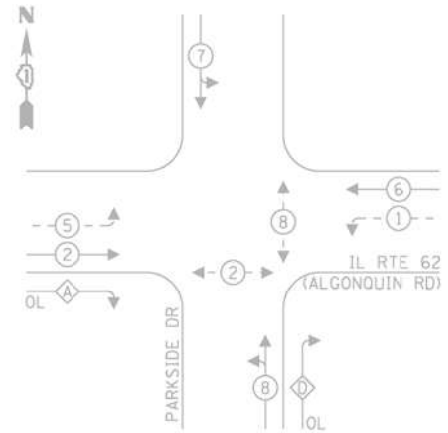
**LOCATION #57
IL RTE 62 (ALGONQUIN RD) AT PARKSIDE DR INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02		306	160
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 14755
IDOT CENTRACS
FORMER ECON 96**

PROPOSED CONTROLLER SEQUENCE



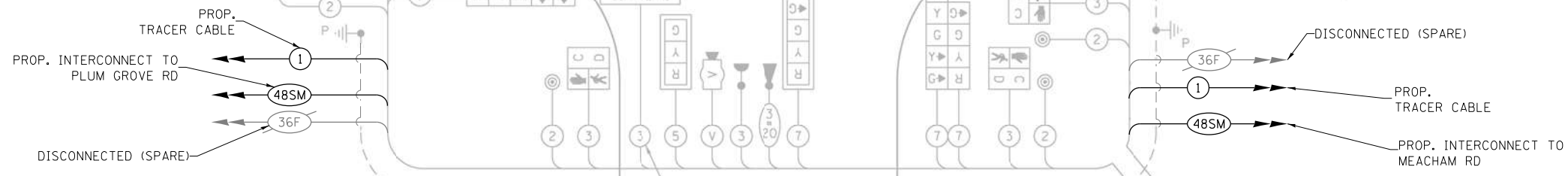
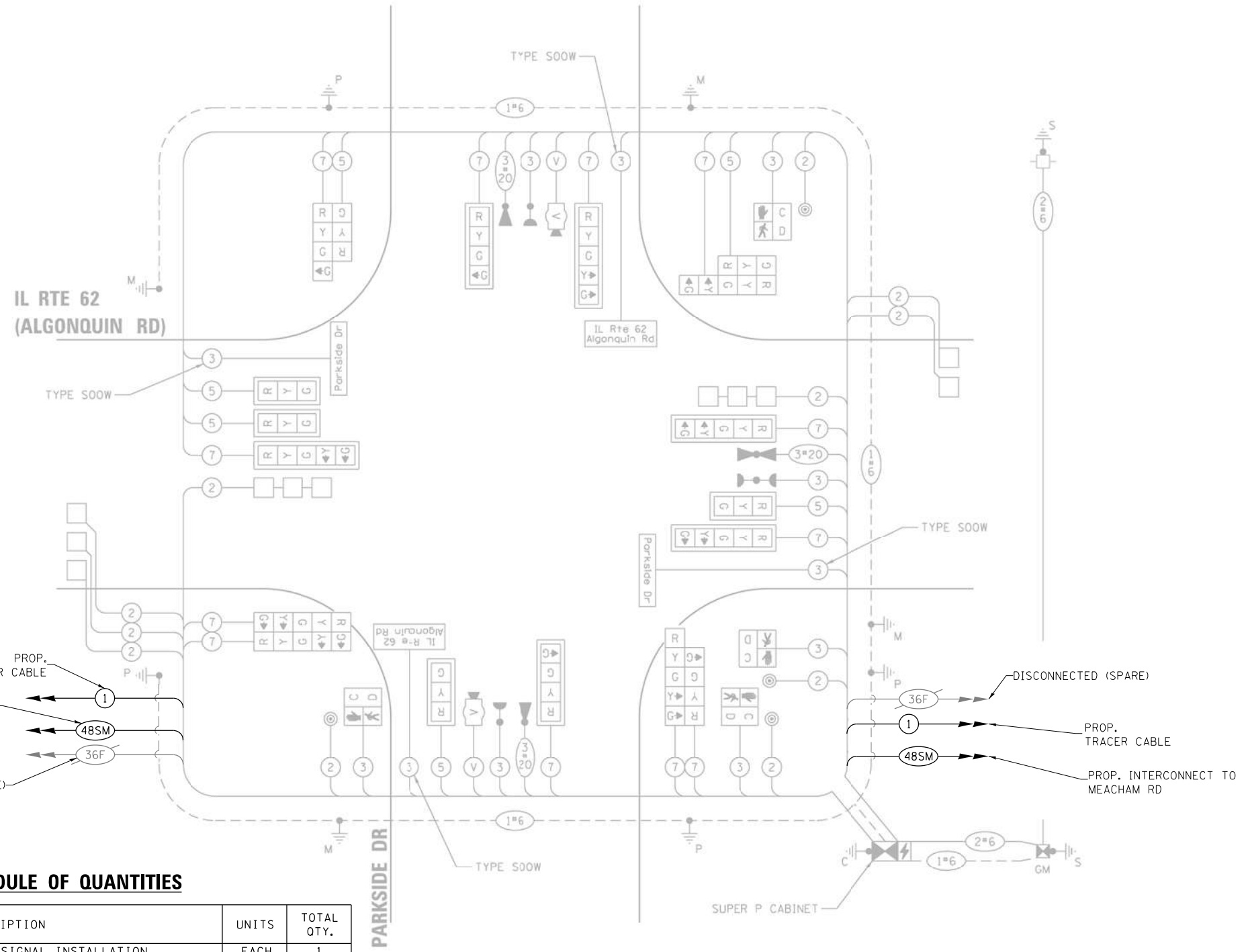
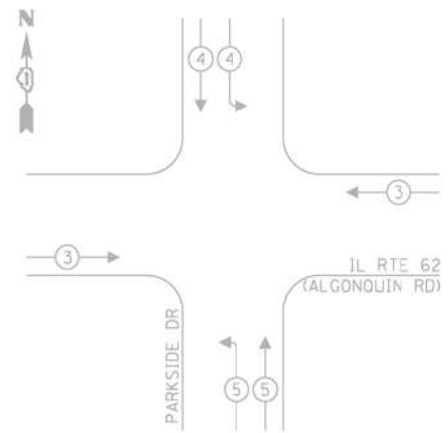
LEGEND:

- ← (⊙) ← PROTECTED PHASE
- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊙) ← PEDESTRIAN PHASE
- ← (⊙) ← OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

CABLE PLAN (NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	22	12	45	118.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	-	-	-	-
TOTAL =				846.8

ENERGY COSTS TO:
VILLAGE OF SCHAUMBURG
 101 SCHAUMBURG CT
 SCHAUMBURG, IL 60193-1899
 ENERGY SUPPLY: CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

GA GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 200
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

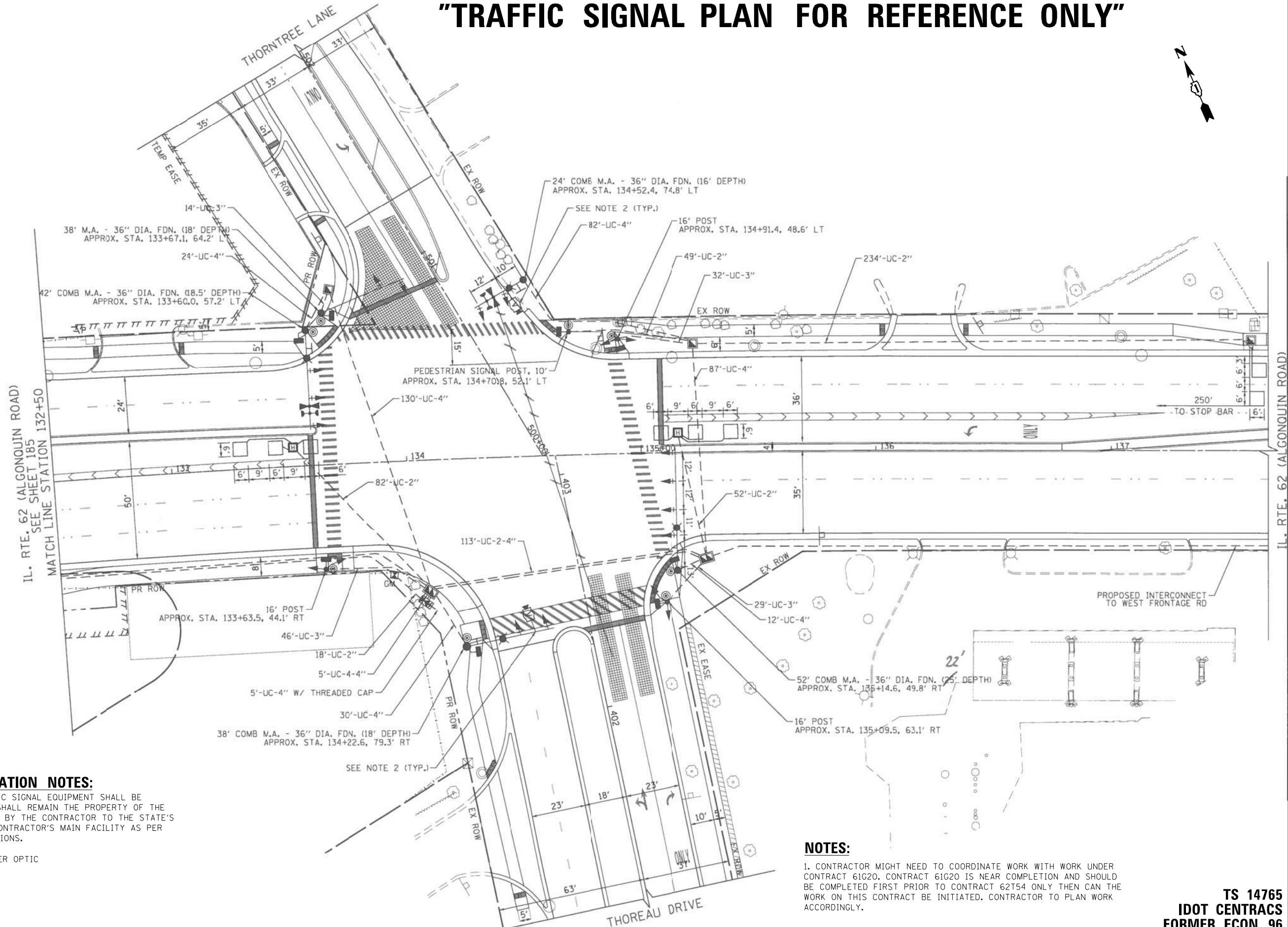
**LOCATION #57
 IL RTE 62 (ALGONQUIN RD) AT PARKSIDE DR CABLE PLAN**
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	161
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 14755
 IDOT CENTRACS
 FORMER ECON 96**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-IDOT-CM40-Centracs Phase 2\CADD\Sheets\144_IL_Rte_62_at_Parkside_Dr_Cd.dgn

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH TRANSCEIVER FIBER OPTIC

NOTES:

1. CONTRACTOR MIGHT NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 61G20. CONTRACT 61G20 IS NEAR COMPLETION AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM00.Contracts Phase 2\CADD\Sheets\145_IL_Rte 62 at Thoreau Dr_INT.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

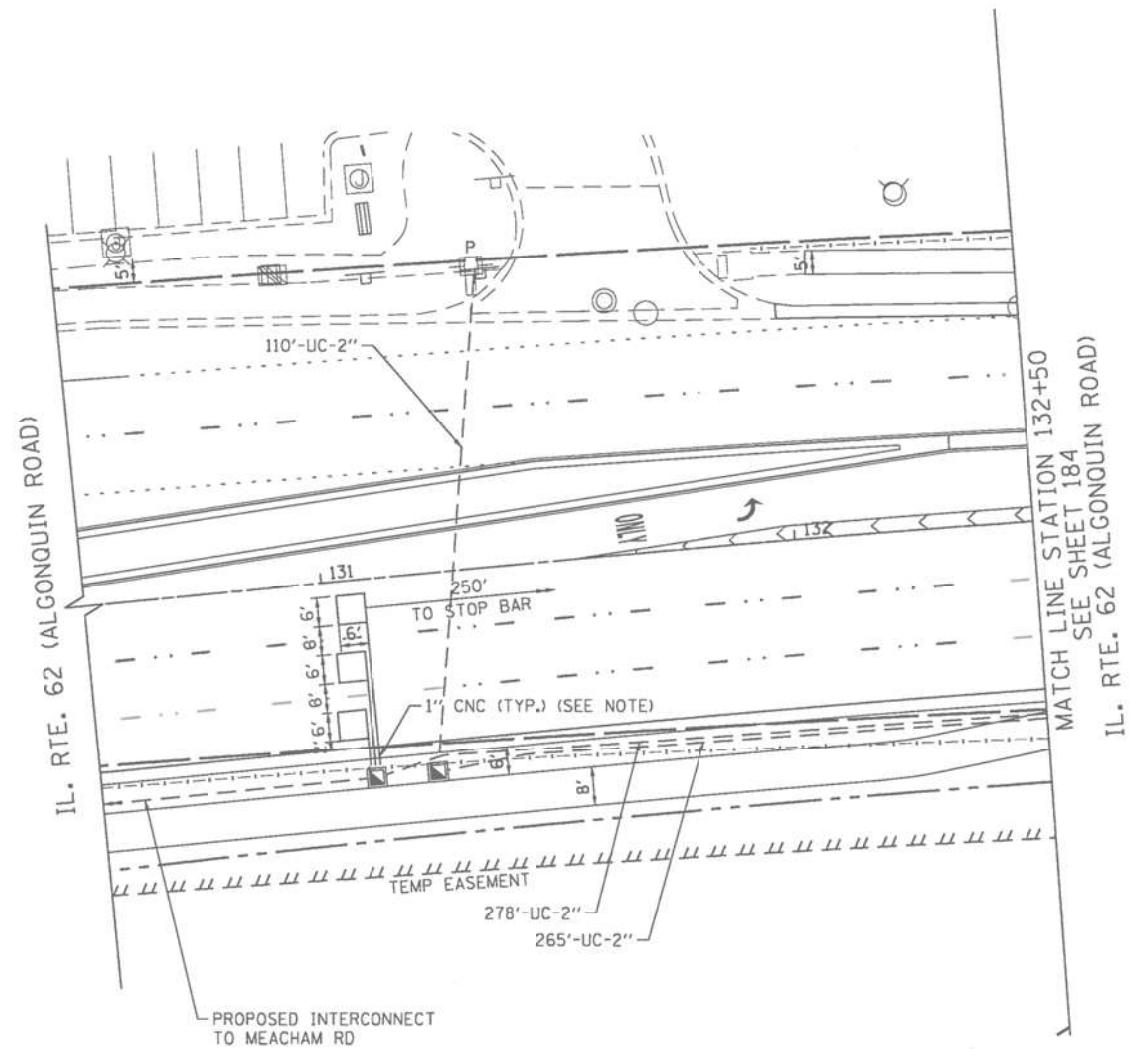
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION #58			
IL RTE 62 (ALCONQUIN RD) AT THOREAU DR INTERSECTION PLAN			
SHEET 1			
SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	162
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 14765
IDOT CENTRACS
FORMER ECON 96**

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



K:\PROJECTS\Projects 2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\16_IL_Rte 62 at Thoreau Dr-INT.dgn

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER*	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE*		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

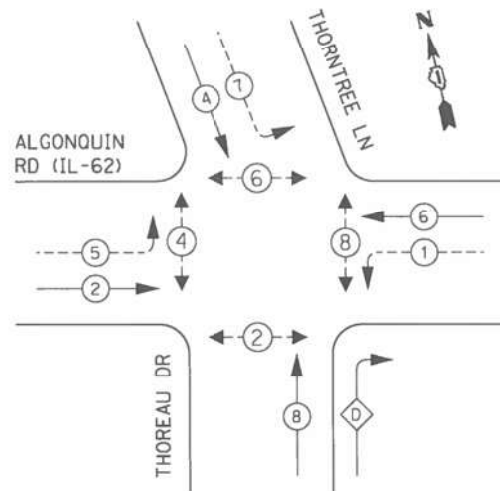
**LOCATION #58
IL RTE 62 (ALGONQUIN RD) AT THOREAU DR INTERSECTION PLAN
SHEET 2**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	163
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 14765
IDOT CENTRACS
FORMER ECON 96**

PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

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

LEGEND:

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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

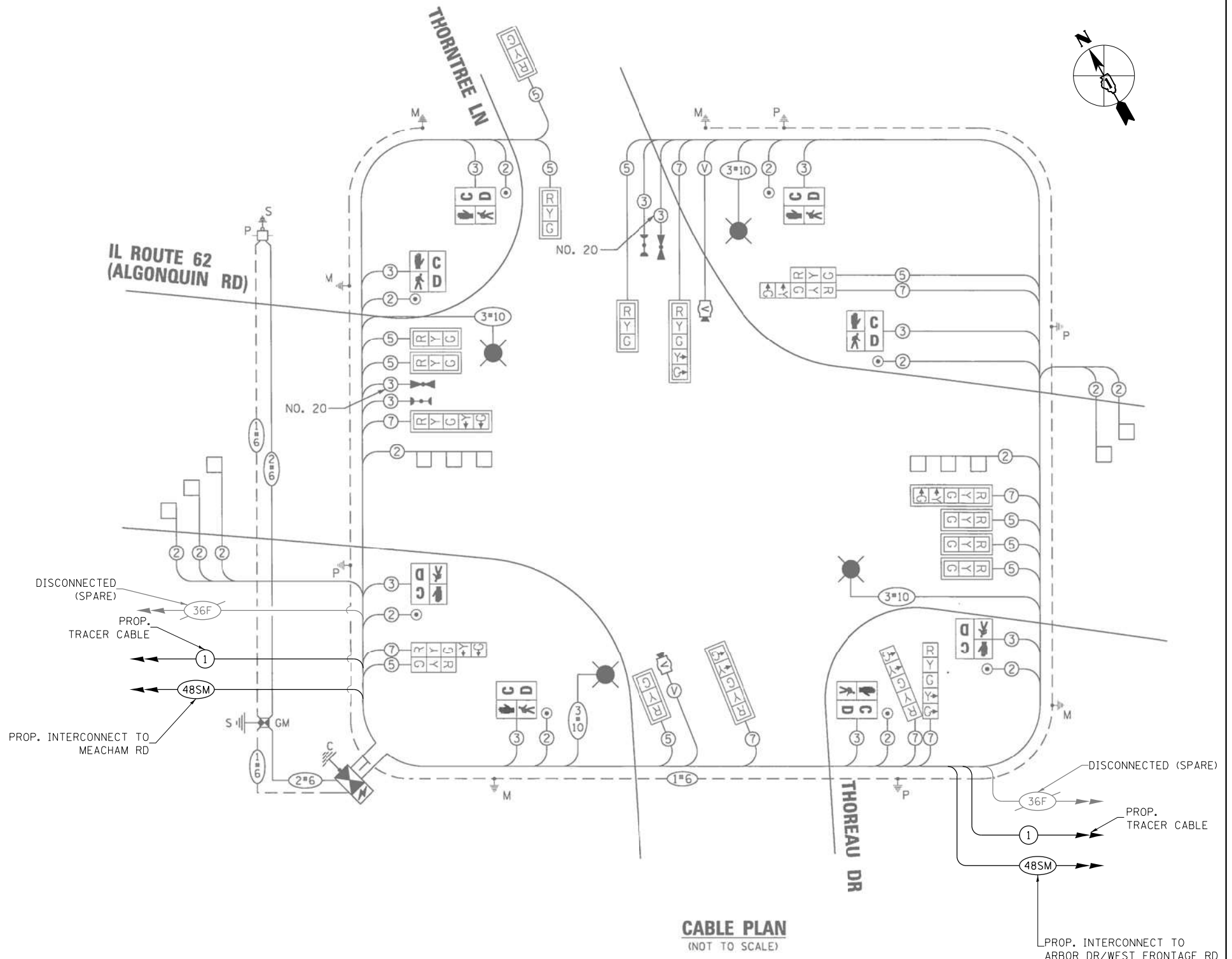
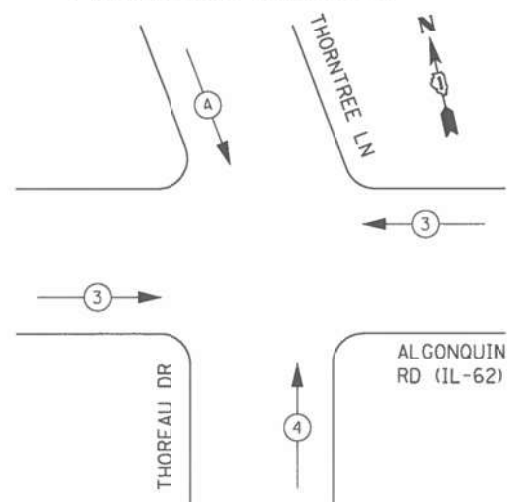
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19 ✓	11	50	104.5
(YELLOW)	19 ✓	20	5	19.0
(GREEN)	19 ✓	12	45	102.6
PERMISSIVE ARROW	16 ✓	10	10	16.0
PED. SIGNAL	8 ✓	20	100	160.0
CONTROLLER	1 ✓	100	100	100.0
UPS	1 ✓	25	100	25.0
VIDEO SYSTEM	1 ✓	150	100	150.0
BLANK-OUT SIGN	-	25	5	--
FLASHER	-	-	50	--
STREET NAME SIGN	-	120	50	--
LUMINAIRE	4 ✓	285	50	570.0
TOTAL =				1247.1 ✓

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
 101 SCHAUMBURG COURT
 SCHAUMBURG, ILLINOIS 60193-1899

ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION #58
 IL RTE 62 (ALGONQUIN RD) AT THOREAU DR CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	164
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

TS 14765
 IDOT CENTRACS
 FORMER ECON 96

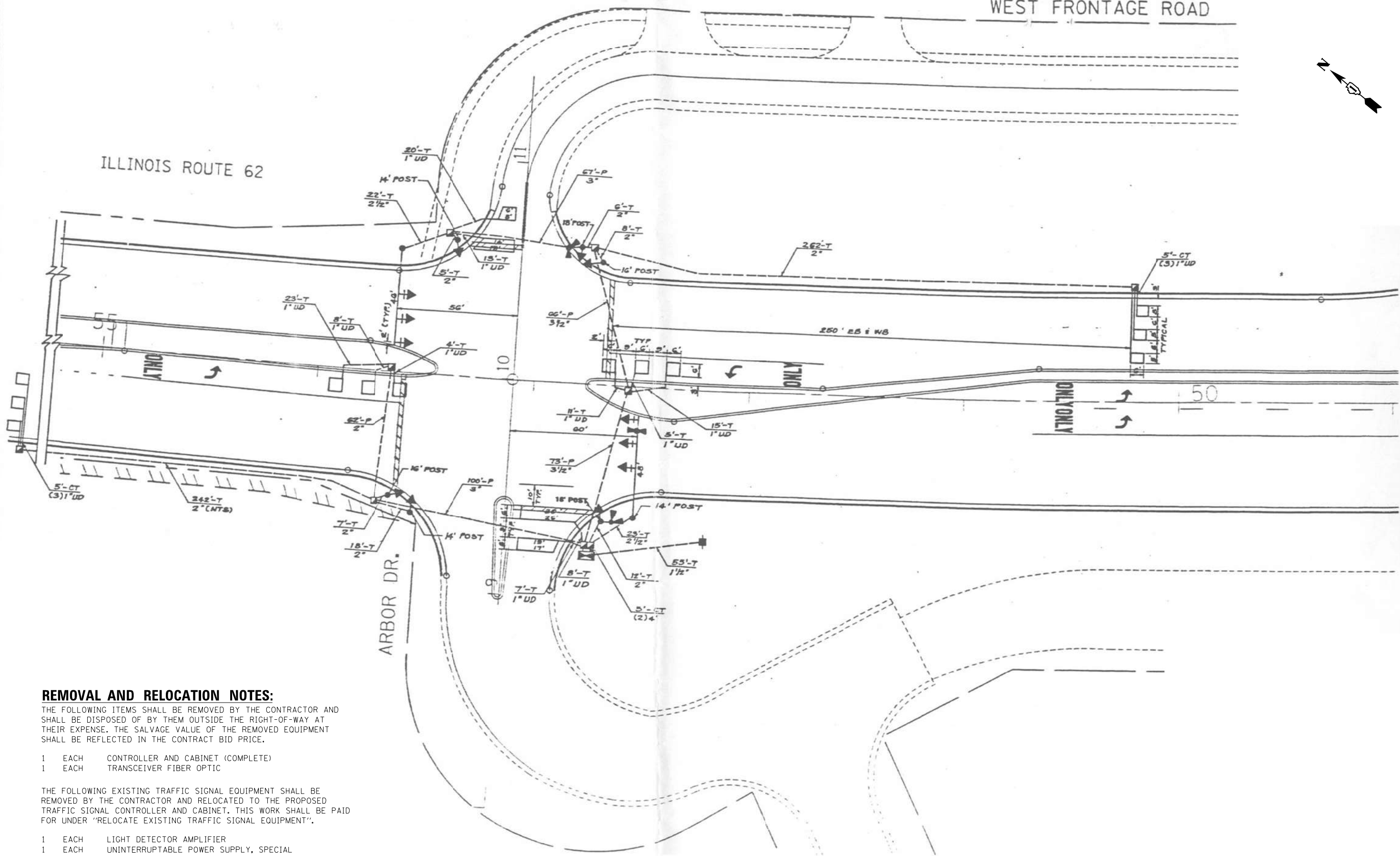
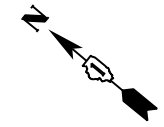
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GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 200
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV <td>REVISIONS -</td> <td></td>	REVISIONS -	
CHECKED - MS <td>REVISIONS -</td> <td></td>	REVISIONS -	
DATE - 10/31/2022 <td>REVISIONS -</td> <td></td>	REVISIONS -	

WEST FRONTAGE ROAD

ILLINOIS ROUTE 62



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH TRANSCEIVER FIBER OPTIC

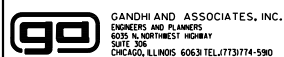
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 2930
IDOT CENTRACS
FORMER ECON 96

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM00 Contracts Phase 2\CADD\Sheets\148_IL_Rte 62 at Arbor Dr..INT.dgn



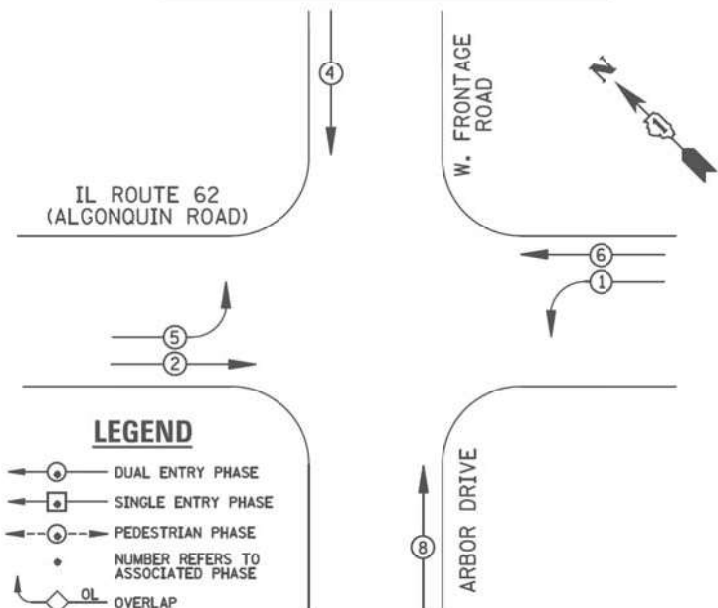
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PLOT SCALE = 40.0000' / IN.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #59
IL RTE 62 (ALGONQUIN RD) AT ARBOR DR INTERSECTION PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	165
CONTRACT NO. 62T54			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

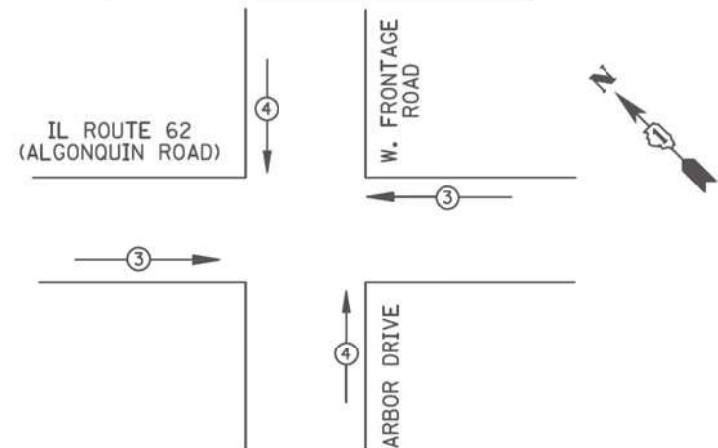
EXISTING CONTROLLER SEQUENCE



LEGEND

- ⊕ DUAL ENTRY PHASE
- ⊖ SINGLE ENTRY PHASE
- ⊙ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

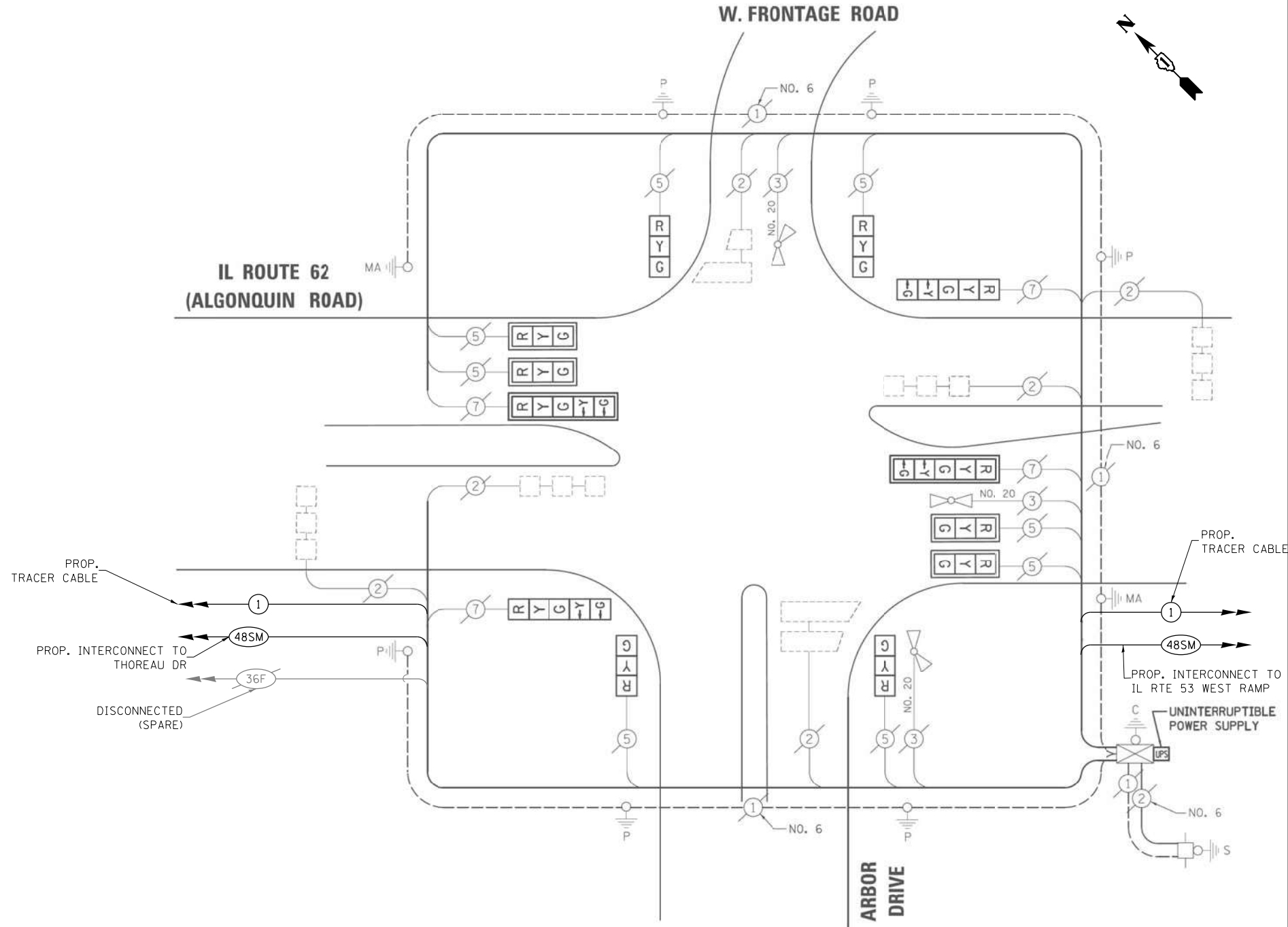
EXISTING PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			84	0.05	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					TOTAL = 331.6
ENERGY SUPPLY CONTACT:	X				
PHONE:	X				
COMPANY:	X				



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	6
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-101.CM00.Sheets\19_IL_Rte 62 at Arbor Dr_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #59
IL RTE 62 (ALGONQUIN RD) AT ARBOR DR CABLE PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	166
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 2930
IDOT CENTRACS
FORMER ECON 96**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

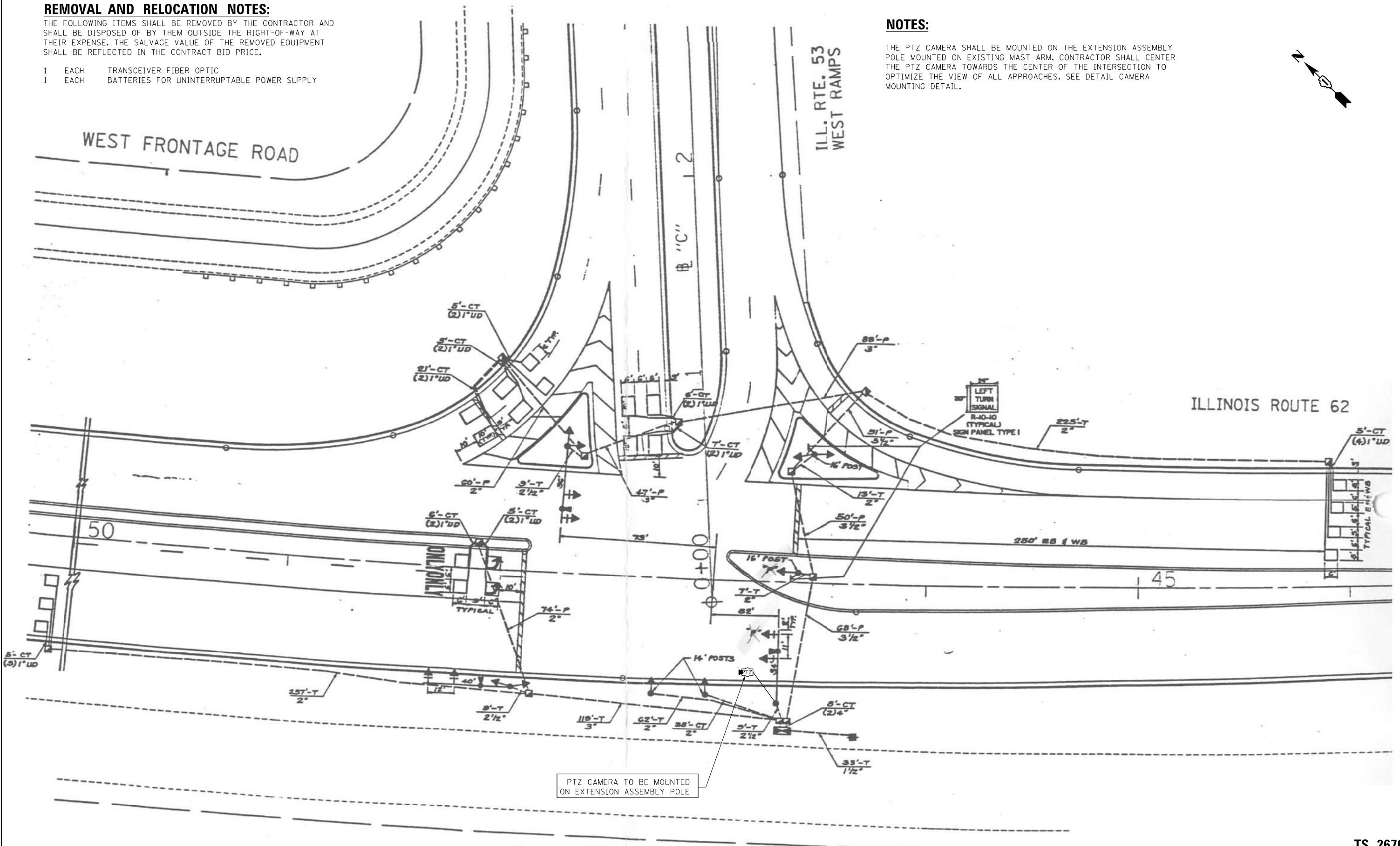
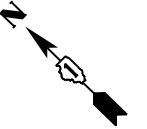
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

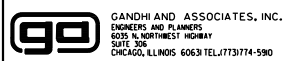


PTZ CAMERA TO BE MOUNTED ON EXTENSION ASSEMBLY POLE

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 2670
IDOT CENTRACS
FORMER ECON 96

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\150_IL_Rte 62 at IL_Rte 53 West Ramp_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE\$		

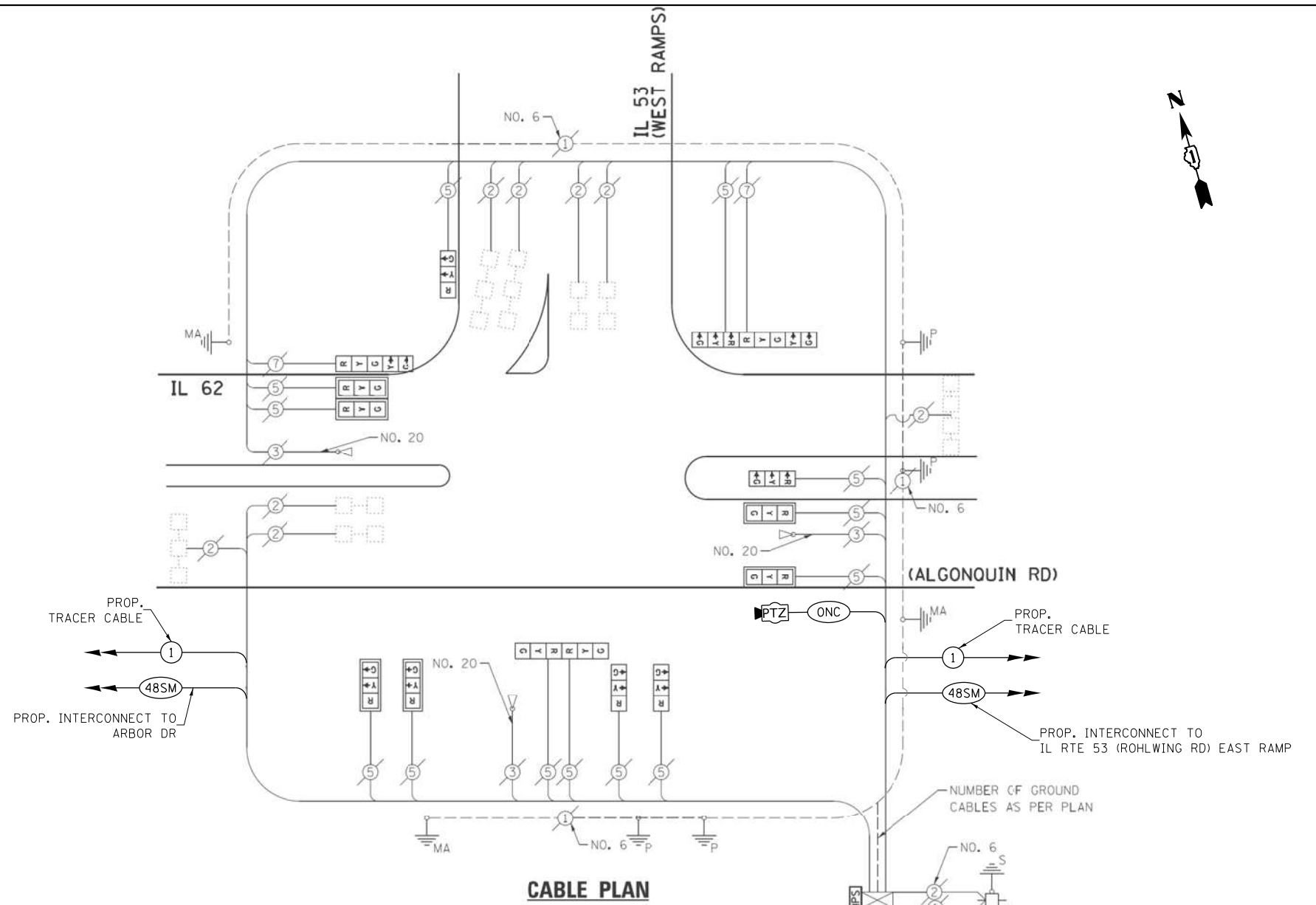
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #60	
IL RTE 62 (ALGONQUIN RD) AT IL RTE 53 (ROHLWING RD) WEST RAMP	
INTERSECTION PLAN	
SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	167
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

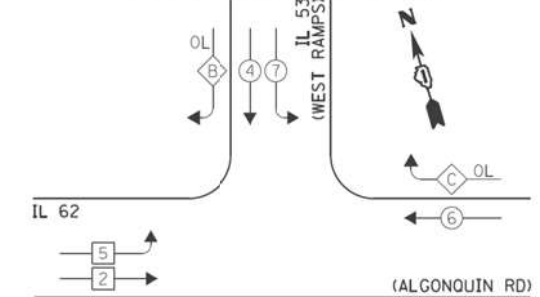
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	80
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



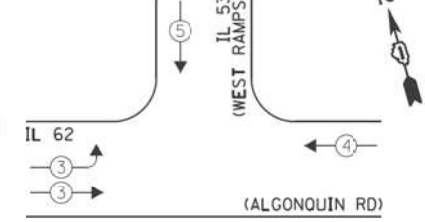
CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← 1 → SINGLE ENTRY PHASE
- ← 2 → DUAL ENTRY PHASE
- ← 3 → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2100 IN A TYPE IV CABINET.

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

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-101.CM00.Centrac\Phase 2\CADD\Sheets\IL IL RTE 62 at IL RTE 53 West Ramp.CADD.dgn

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
		INCAND.	L.E.D.		
SIGNAL (RED)	15	135	17	0.50	127.5
SIGNAL (YELLOW)	15	135	25	0.25	93.75
SIGNAL (GREEN)	15	135	15	0.25	56.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					407.3

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISIONS -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #60
IL RTE 62 (ALGONQUIN RD) AT IL RTE 53 (ROHLWING RD) WEST RAMP
CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	168
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 2670
IDOT CENTRACS
FORMER ECON 96**

REMOVAL AND RELOCATION NOTES:

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

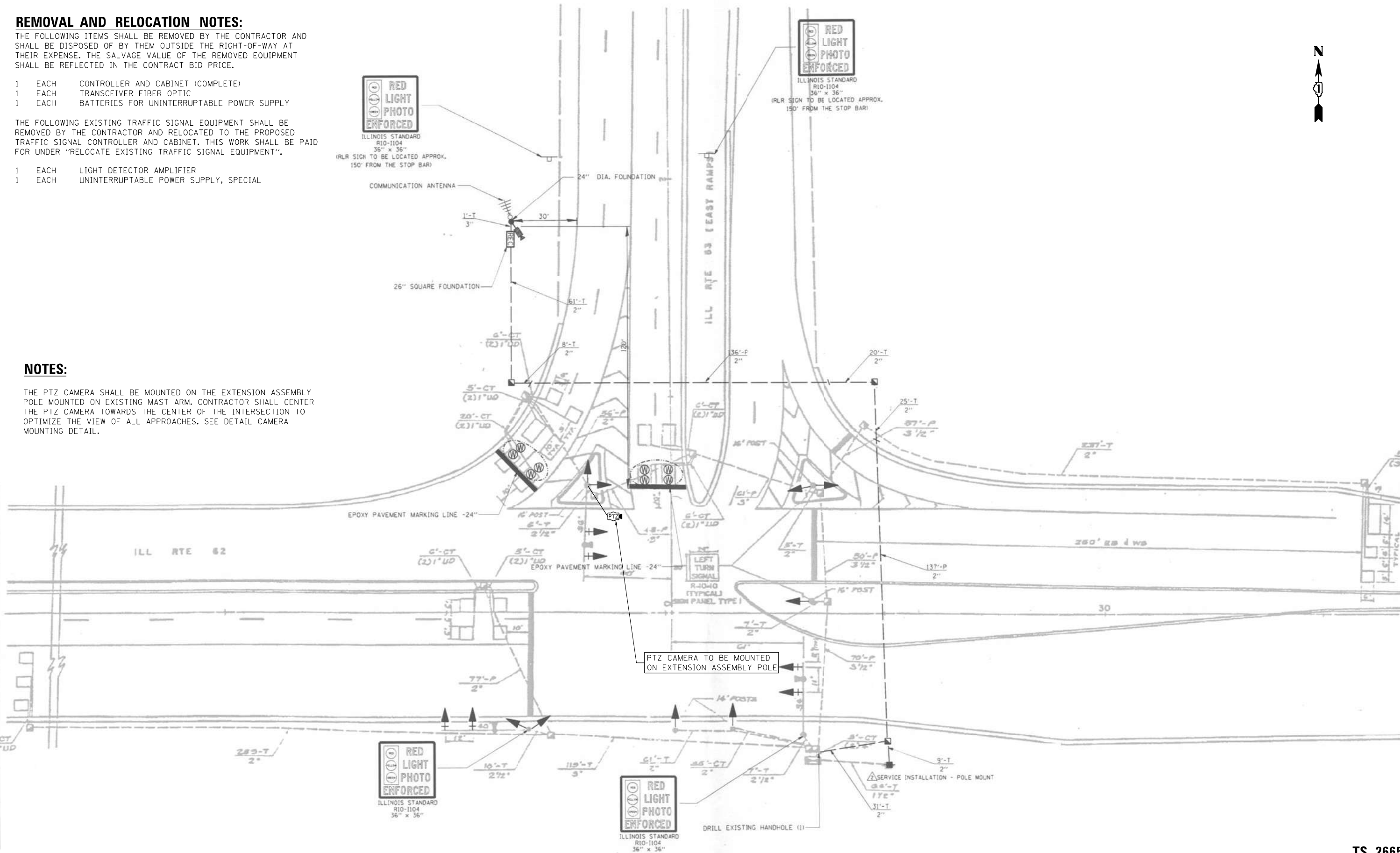
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\152.IL Rte 62 at IL Rte 53 East Ramp.INT.dgn

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER*	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / 1" IN.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE*	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

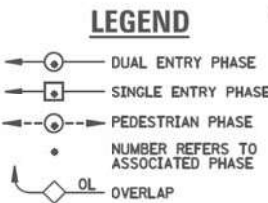
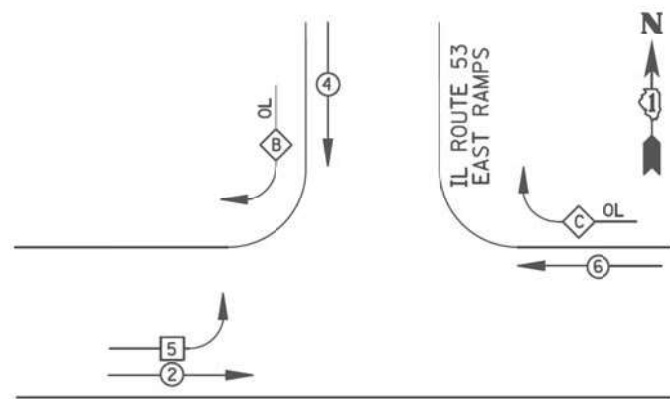
**LOCATION #61
IL RTE 62 (ALGONQUIN RD) AT IL RTE 53 (ROHLWING RD) EAST RAMP
INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	169
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62T54	

**TS 2665
IDOT CENTRACS
FORMER ECON 96**

EXISTING CONTROLLER SEQUENCE

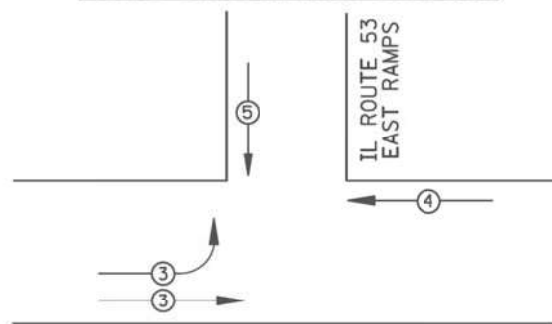


IL ROUTE 62 (ALGONQUIN ROAD)

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4 +	5
C	= 6 +	4

EXISTING PHASE DESIGNATION DIAGRAM



IL ROUTE 62 (ALGONQUIN ROAD)

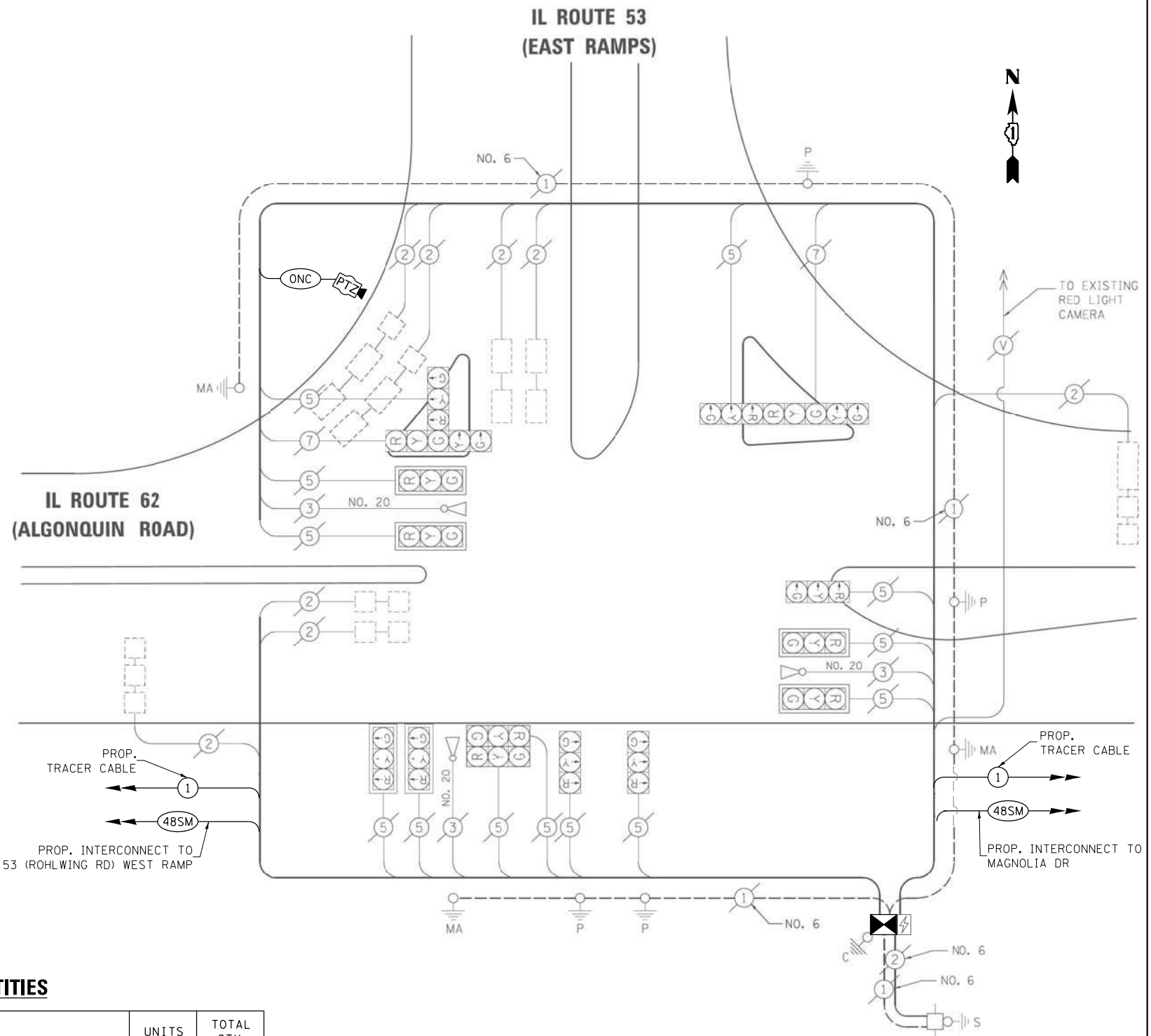
EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	
MOVEMENT	↘	←	↓	

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	15	135	17	0.50	127.5
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					TOTAL = 382.3
ENERGY SUPPLY CONTACT:	X				
PHONE:	X				
COMPANY:	X				

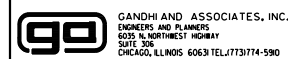
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	8
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	330
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
POWER OVER ETHERNET EXTENDER	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



CABLE PLAN

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-962-101.CM40 Contracts Phase 2\CADD\Sheets\153_IL_Rte_62_at_IL_Rte_53_East_Ramp_CD.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5015 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: (773) 714-5900

DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #61
IL RTE 62 (ALGONQUIN RD) AT IL RTE 53 (ROHLWING RD) EAST RAMP
CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

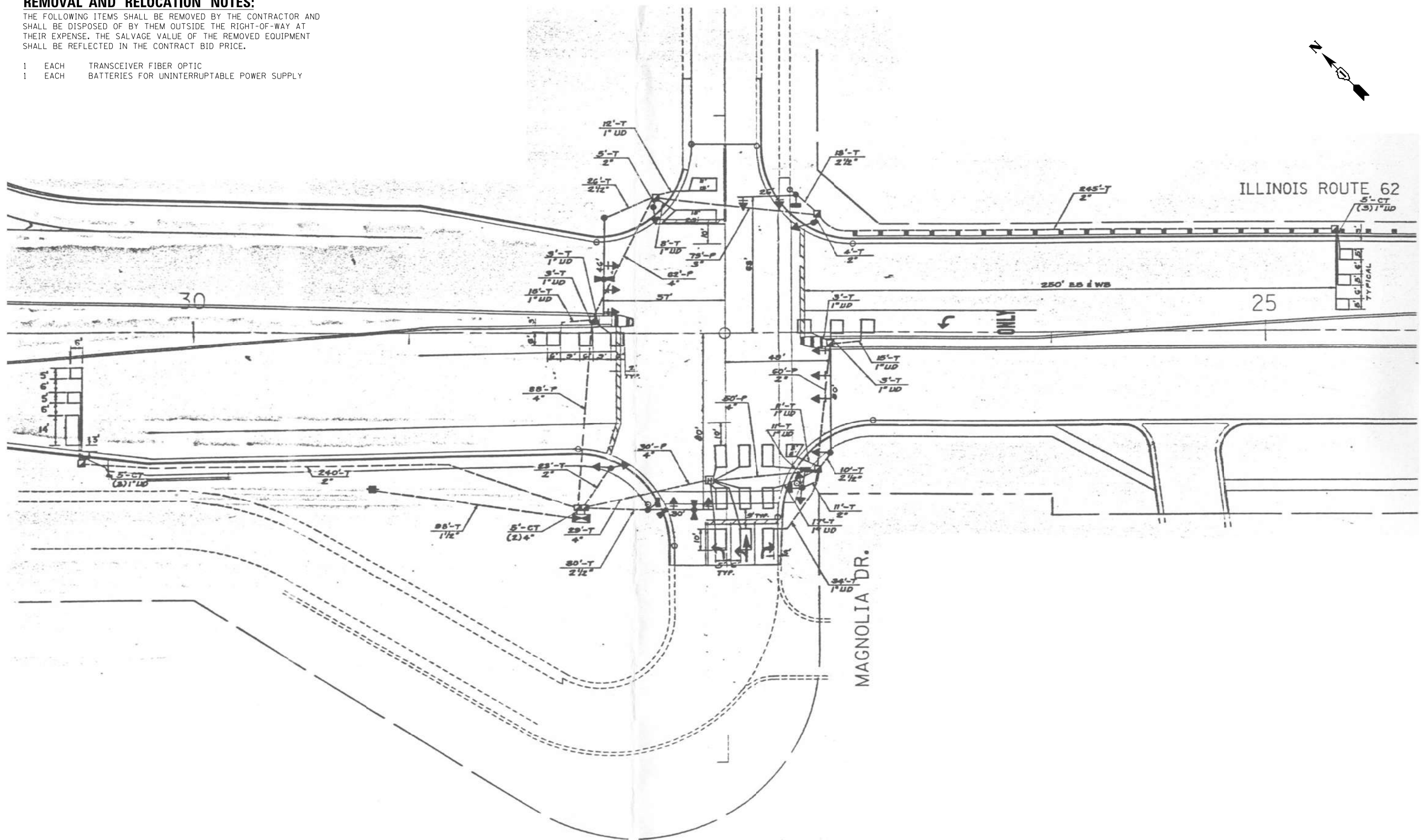
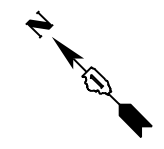
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	170
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 2665
IDOT CENTRACS
FORMER ECON 96

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



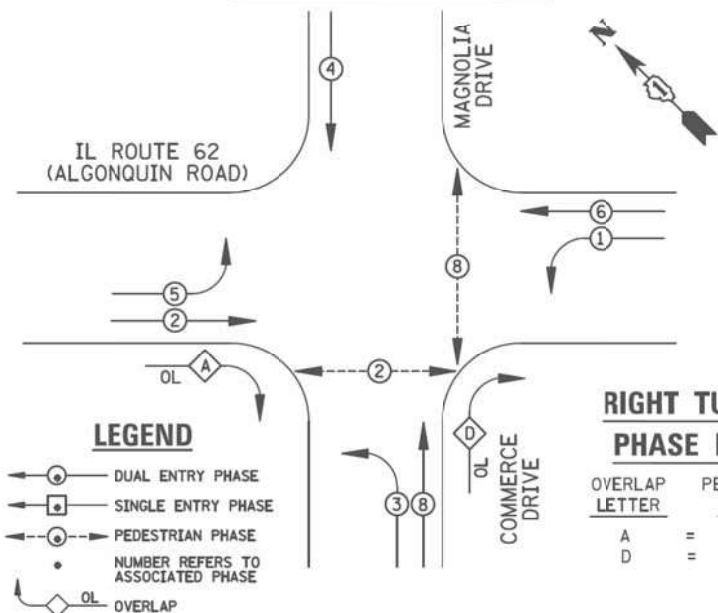
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 2980
IDOT CENTRACS
FORMER ECON 96

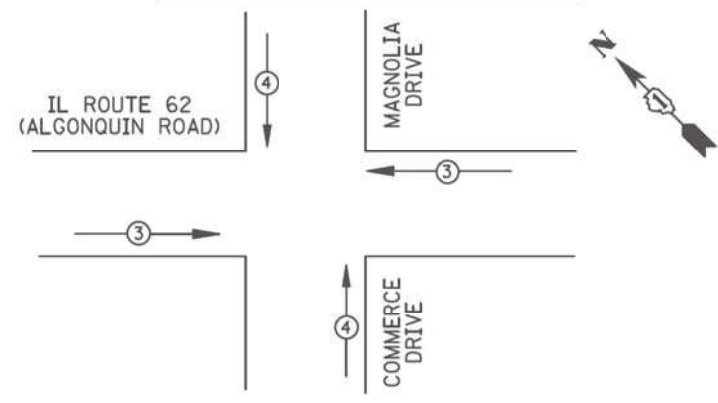
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<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60639 TEL: 773/774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	LOCATION #62 IL RTE 62 (ALGONQUIN RD) AT MAGNOLIA DR INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
											FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

**EXISTING AND PROPOSED
CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED
PHASE DESIGNATION DIAGRAM**



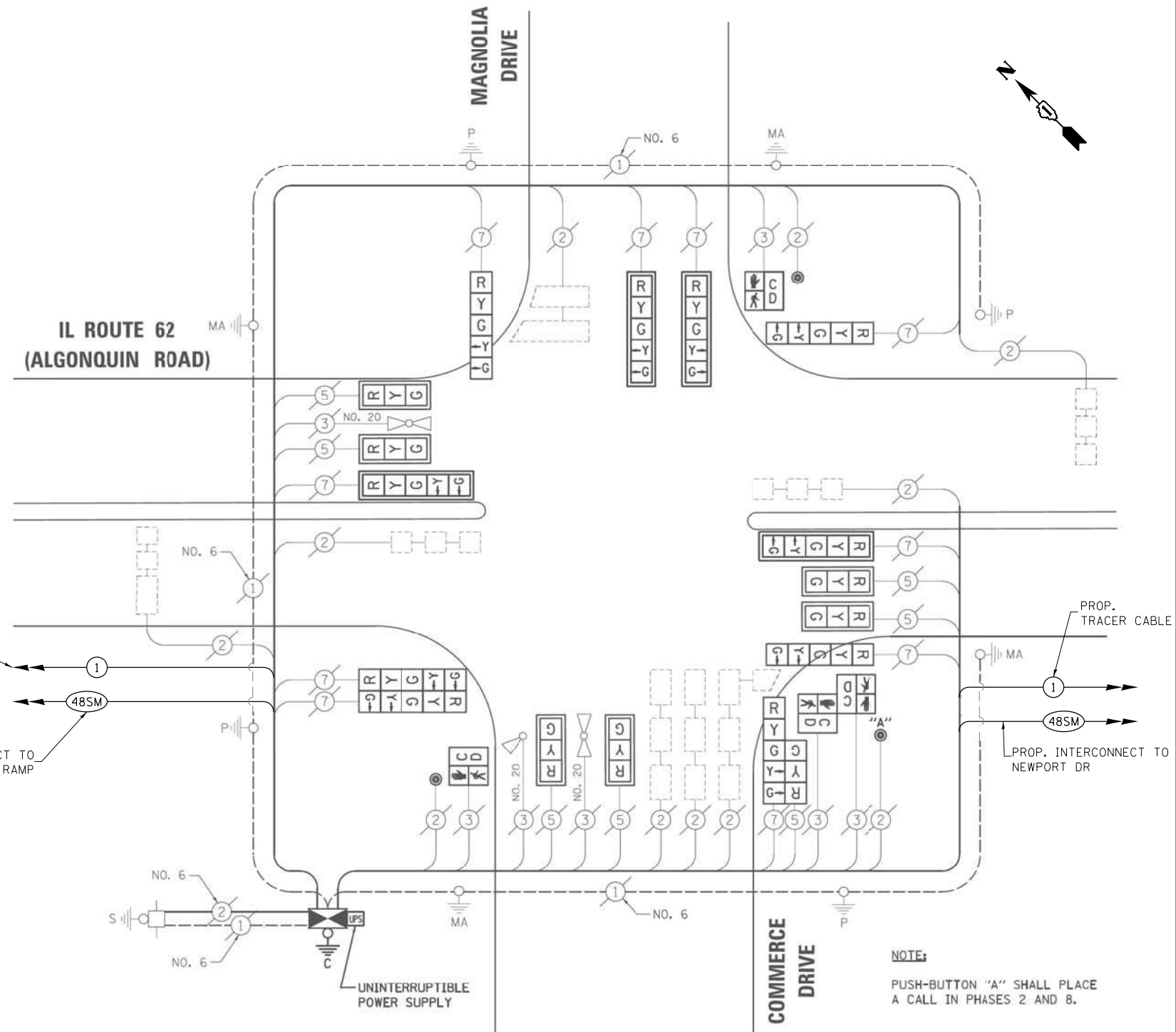
EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑

**EXISTING AND PROPOSED
EMERGENCY VEHICLE PREEMPTION SEQUENCE**

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	17	135	17	0.50	144.5
(YELLOW)	17	135	25	0.25	106.25
(GREEN)	17	135	15	0.25	63.75
ARROW	20	135	12	0.10	24
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER		135	25	0.50	
ENERGY COSTS TO:					TOTAL = 538.5

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: X
PHONE: X
COMPANY: X



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTIBLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-962-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\155-IL_Rte 62 at Magnolia Dr-.Caddgn

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5055 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #62
IL RTE 62 (ALGONQUIN RD) AT MAGNOLIA DR CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	172
CONTRACT NO. 62T54				

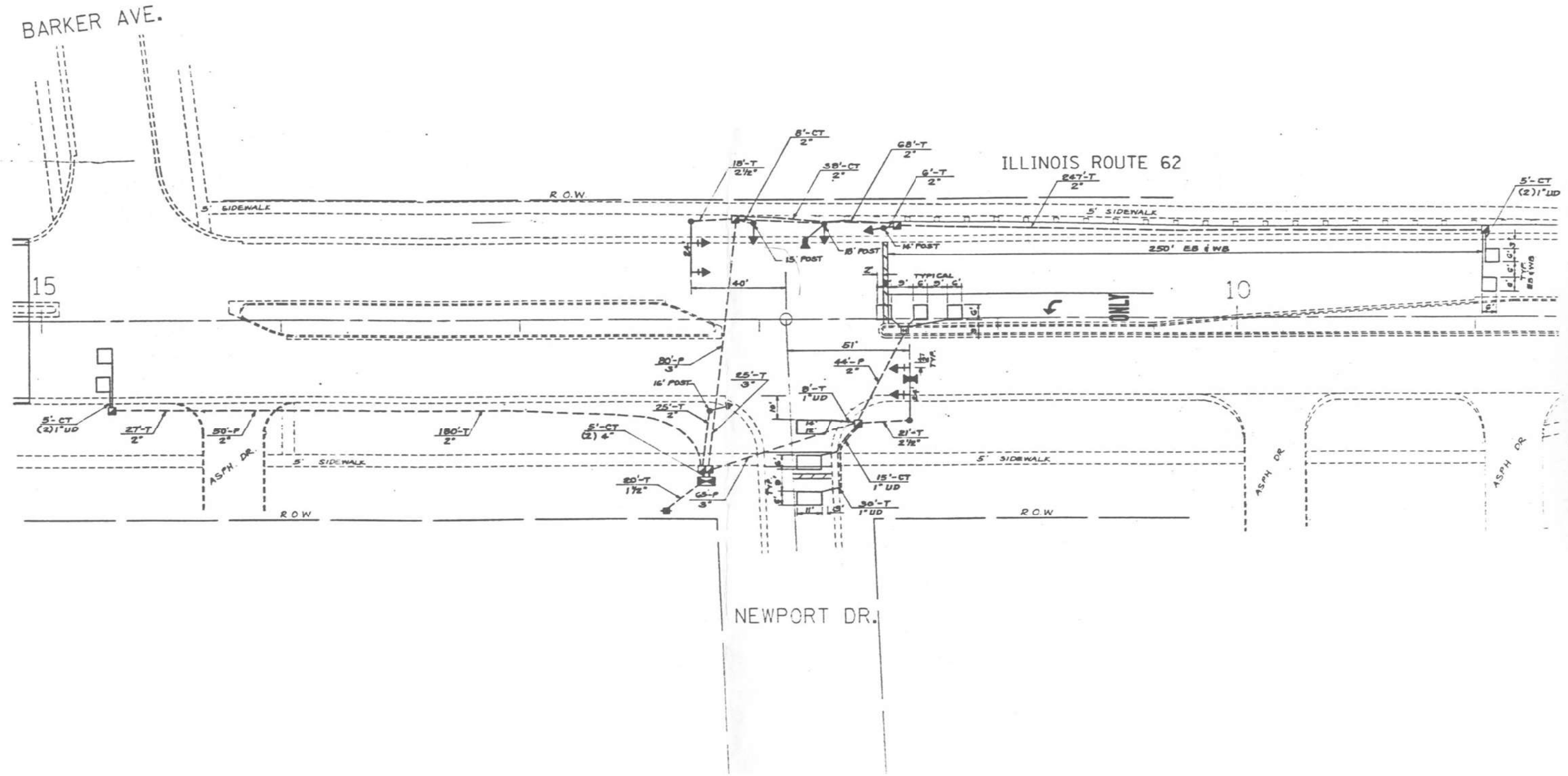
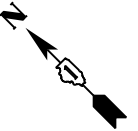
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

**TS 2980
IDOT CENTRACS
FORMER ECON 96**

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



NEWPORT DR.

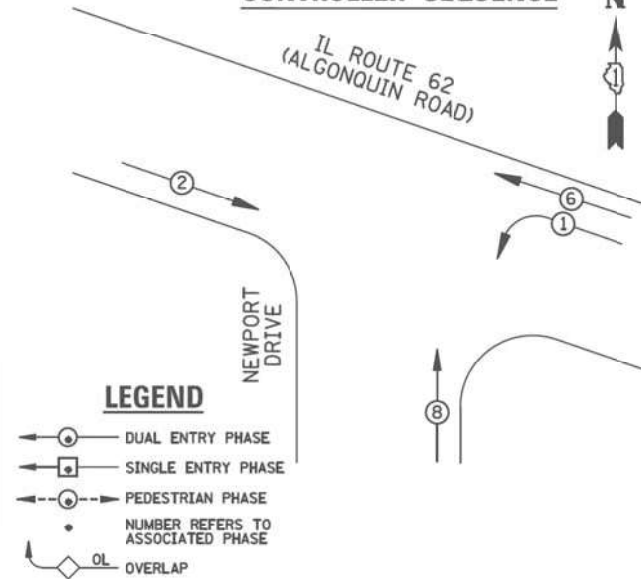
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 21595
IDOT CENTRACS
FORMER ECON 96**

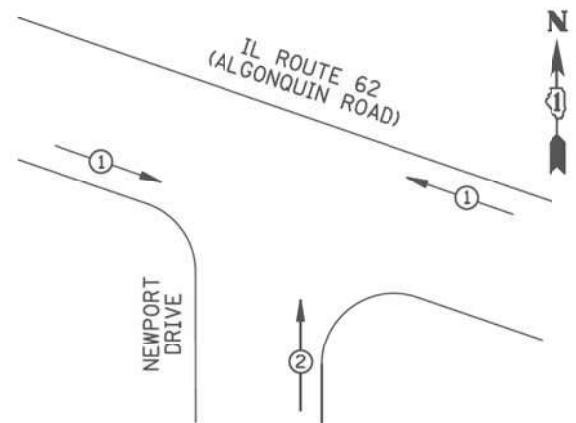
K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\156_IL_Rte 62 at Newport Dr-INT.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60639 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #63 IL RTE 62 (ALGONQUIN RD) AT NEWPORT DR INTERSECTION PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	DRAWN - EA, AV	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS	306	173	
	PLOT SCALE = 40.0000 ' / in.	DATE - 10/31/2022	REVISED -												CONTRACT NO. 62T54
	PLOT DATE = \$DATE\$	REVISED -													FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

**EXISTING AND PROPOSED
CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED
PHASE DESIGNATION DIAGRAM**



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	←	↑

**EXISTING AND PROPOSED
EMERGENCY VEHICLE PREEMPTION SEQUENCE**

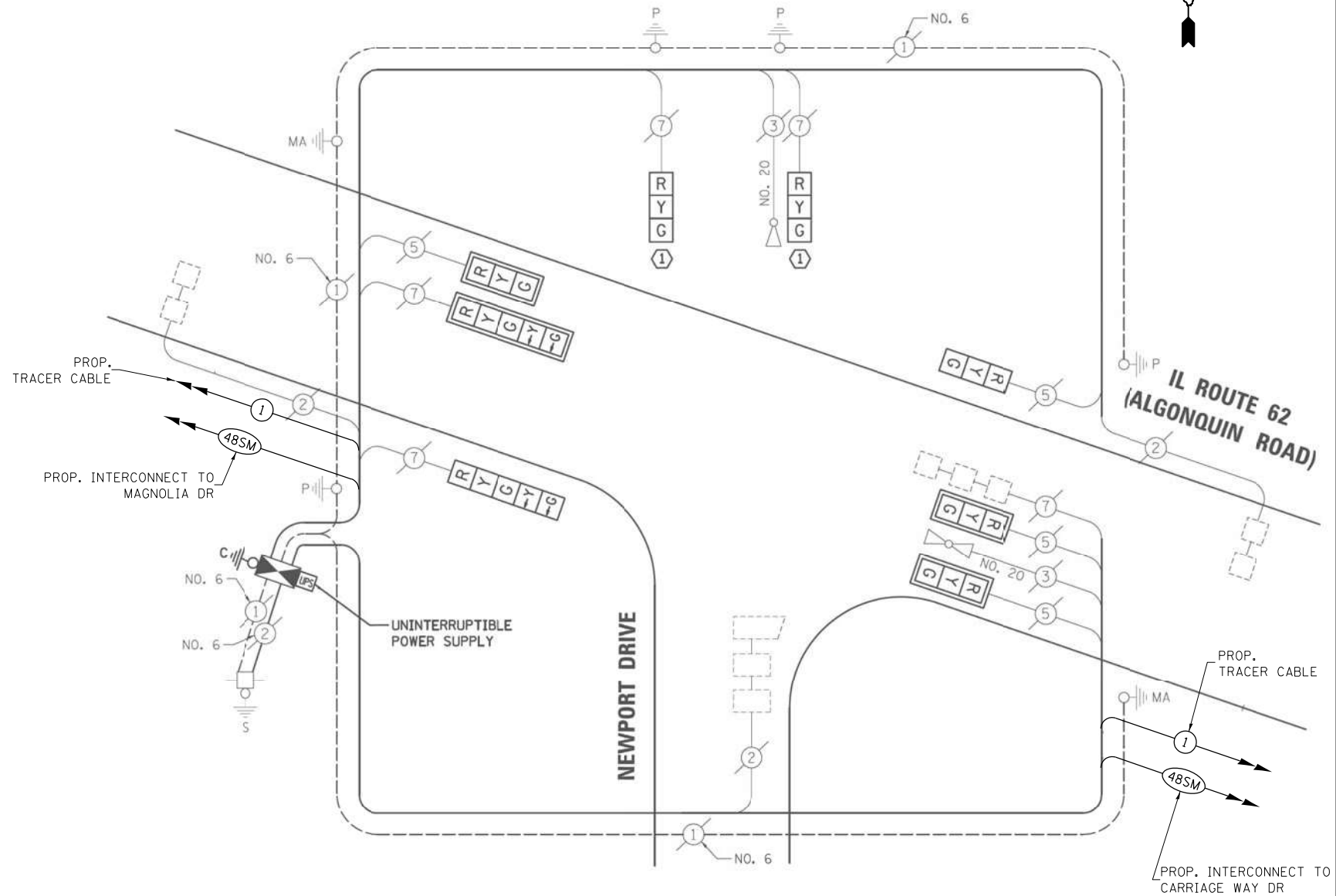
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I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	8	135	17	0.50	68
(YELLOW)	8	135	25	0.25	50
(GREEN)	8	135	15	0.25	30
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					TOTAL = 252.8
ENERGY SUPPLY CONTACT:	X				
PHONE:	X				
COMPANY:	X				

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

CABLE PLAN

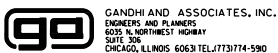


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #63
IL RTE 62 (ALGONQUIN RD) AT NEWPORT DR CABLE PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	174
CONTRACT NO. 62T54				

**TS 21595
IDOT CENTRACS
FORMER ECON 96**



DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

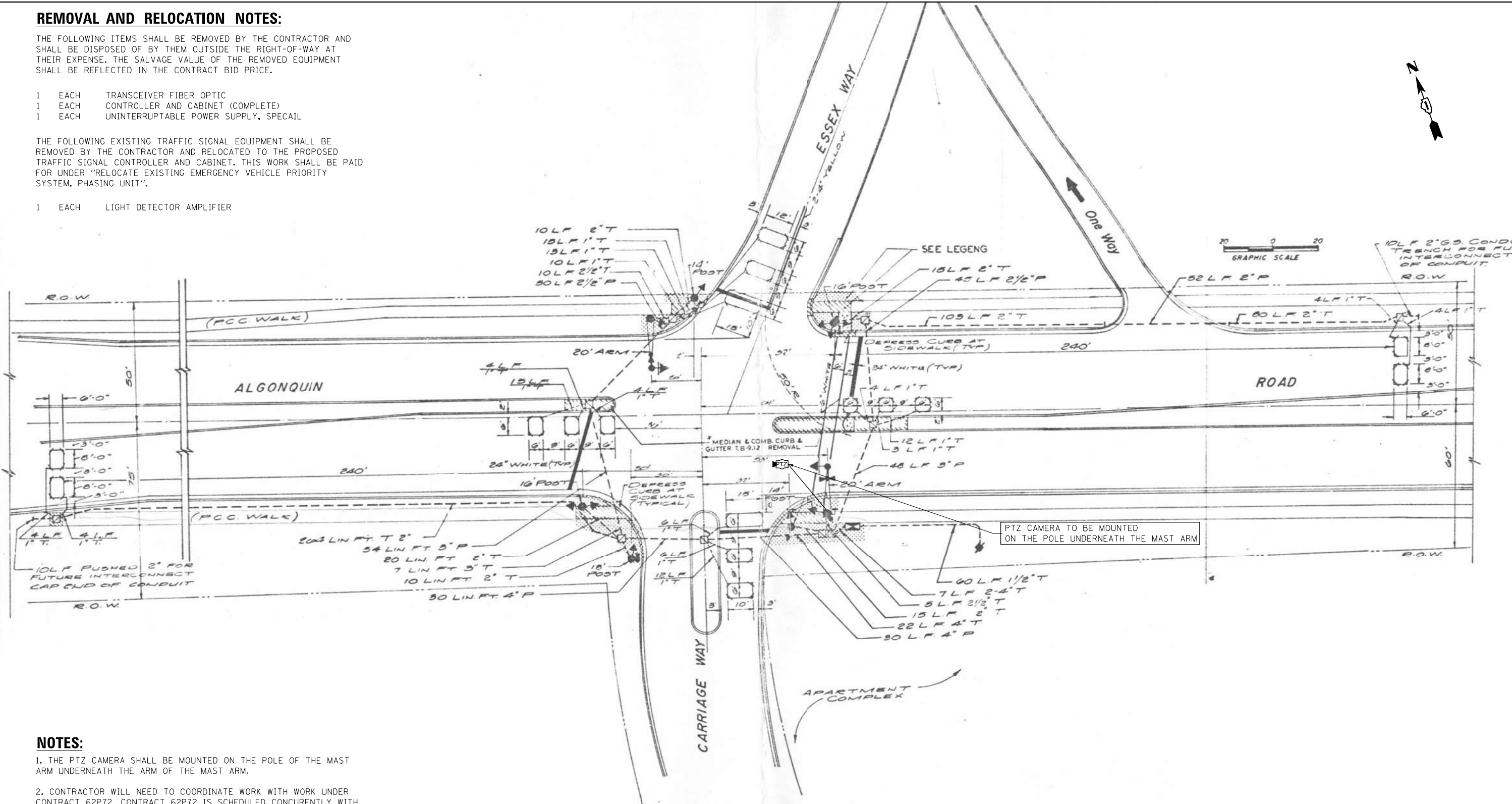
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECAIL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

- 1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.
2. CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62P72. CONTRACT 62P72 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62P72 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62P72. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

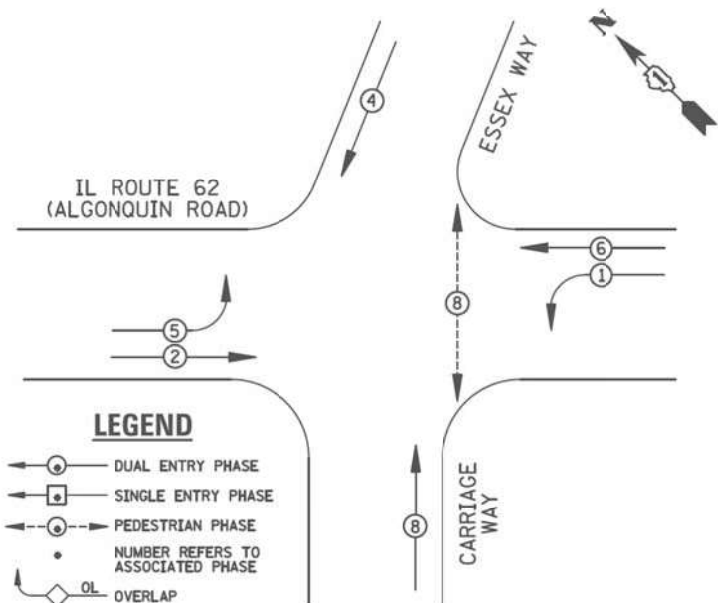
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 14741
IDOT CENTRACS
FORMER ECON 96

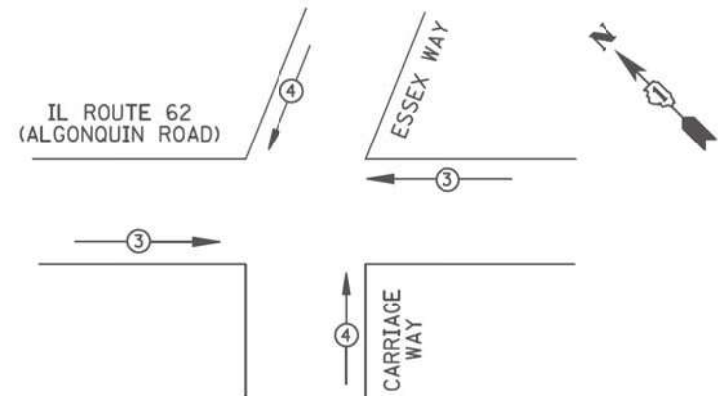
FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\158_IL_Rte 62 at Carriage Way Dr-INT.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60631 TEL: 773/774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #64			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISIED -		REVISIED -	IL RTE 62 (ALGONQUIN RD) AT CARRIAGE WAY DR INTERSECTION PLAN			VAR	2023 TRAFFIC 02	VARIOUS	306
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISIED -	REVISIED -	SCALE: 1" = 20'			SHEET NO.	OF	SHEETS	STA.	TO	STA.
							FED. ROAD DIST. NO. - ILLINOIS			FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

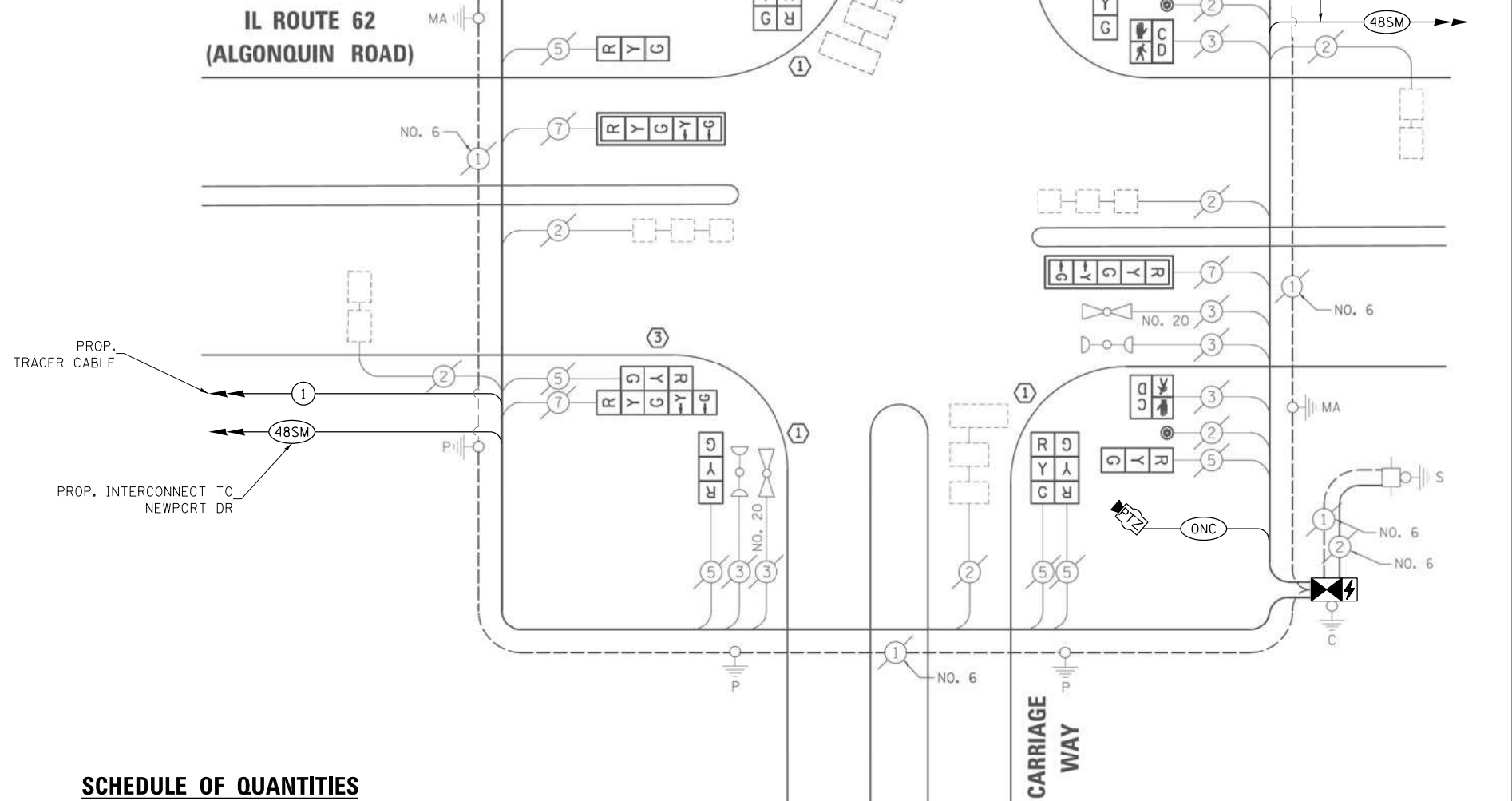


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-962-1001.CM40 Contracts Phase 2\CADD_Sheets\159_IL_Rte 62 at Carriage Way Dr_CD.dgn

IL ROUTE 62 (ALGONQUIN ROAD)



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	6
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	78
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER		135	25	0.50	
ENERGY COSTS TO:					TOTAL = 418.6
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					
ENERGY SUPPLY CONTACT:	X				
PHONE:	X				
COMPANY:	X				

DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

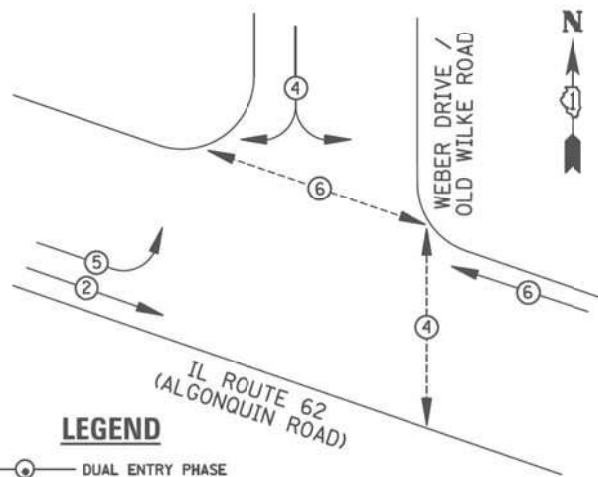
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**LOCATION #64
IL RTE 62 (ALGONQUIN RD) AT CARRIAGE WAY DR CABLE PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	176
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 14741
IDOT CENTRACS
FORMER ECON 96**

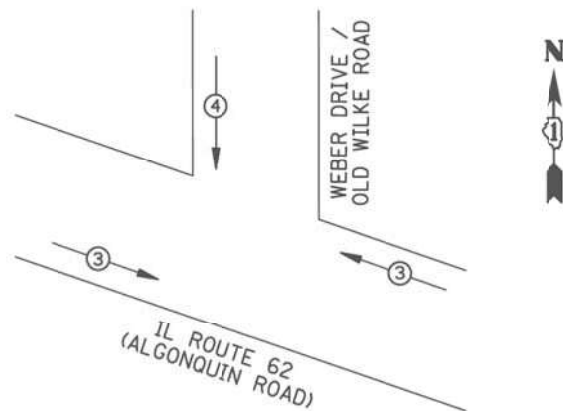
EXISTING CONTROLLER SEQUENCE



LEGEND

- ⊖ DUAL ENTRY PHASE
- ⊠ SINGLE ENTRY PHASE
- ⊙ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←→	↕

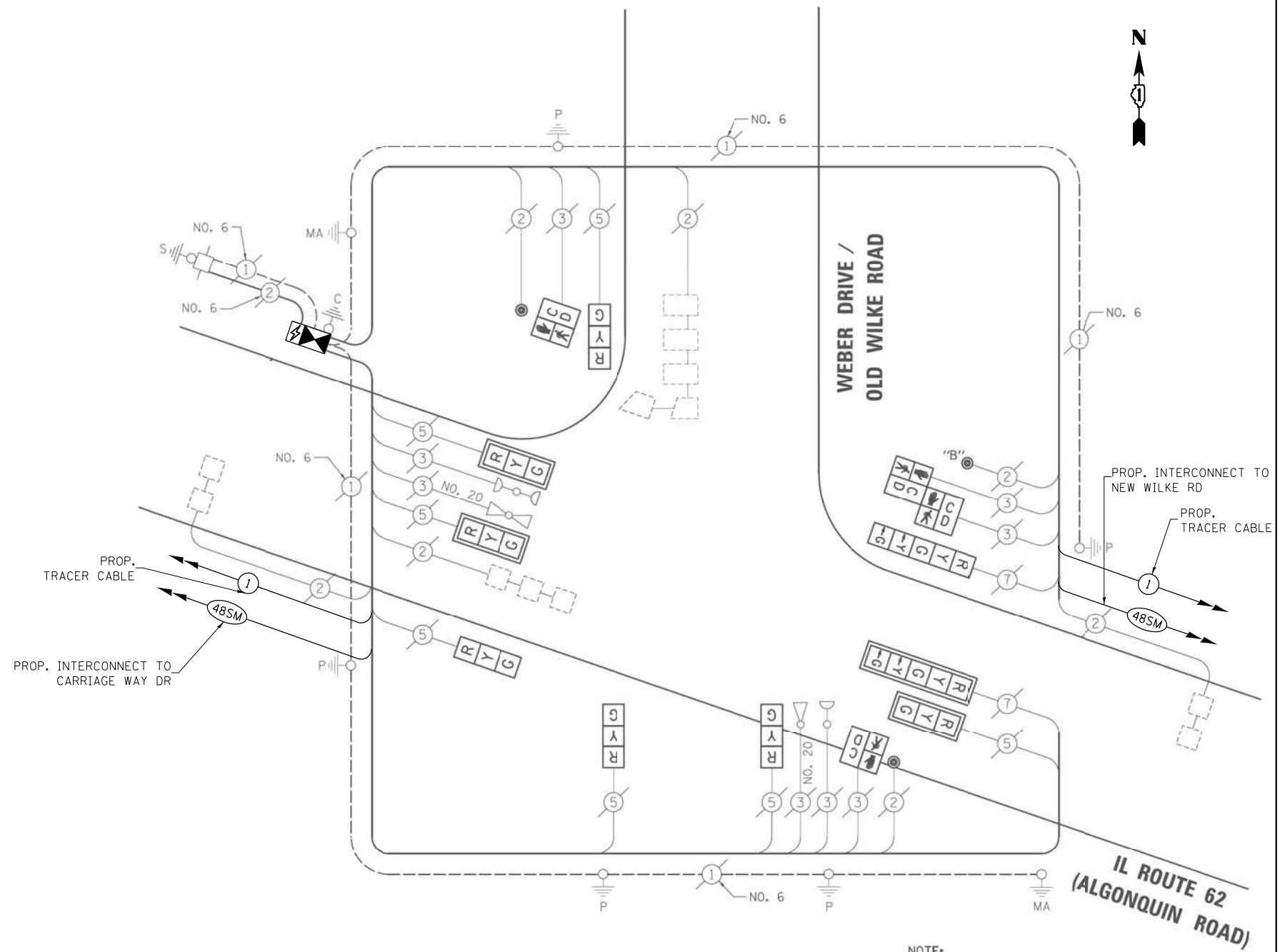
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	135	17	0.50	76.5
(YELLOW)	9	135	25	0.25	56.25
(GREEN)	9	135	15	0.25	33.75
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					TOTAL = 371.3
ENERGY SUPPLY CONTACT: X					
PHONE: X					
COMPANY: X					

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	4
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACTS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

CABLE PLAN



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

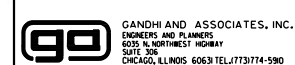
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #65
IL RTE 62 (ALGONQUIN RD) AT OLD WILKE RD CABLE PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	178
CONTRACT NO. 62T54				

**TS 14744
IDOT CENTRACTS
FORMER ECON 96**

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-962-1001.CM40 Contracts Phase 2\CADD\Sheets\NEL IL Rte 62 at Old Wilke Rd_CD.dgn



USER NAME = \$USER\$
DESIGNED - EA
DRAWN - EA, AV
CHECKED - MS
DATE - 10/31/2022

REVISED - 12-2-2022
REVISED -
REVISED -
REVISED -

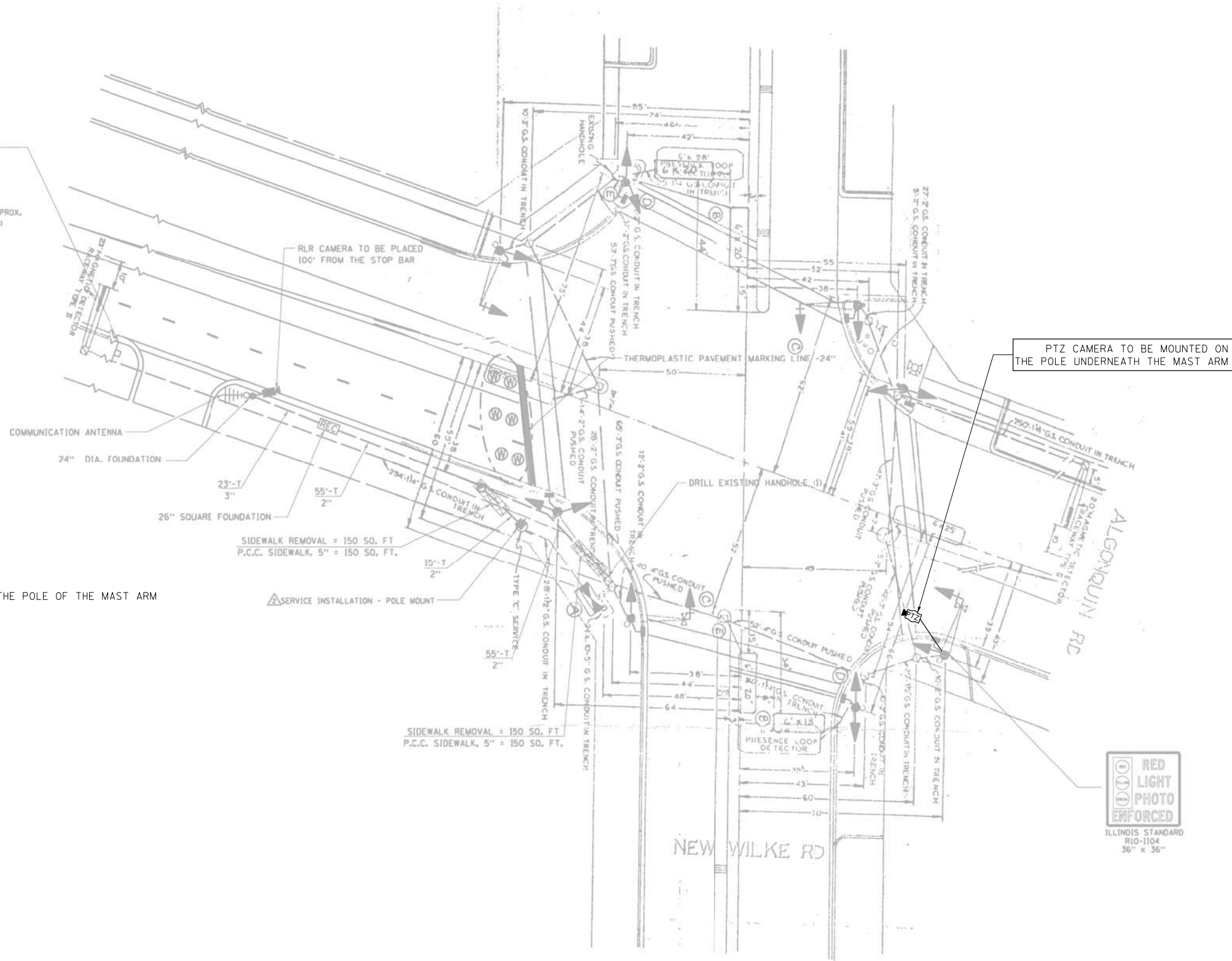
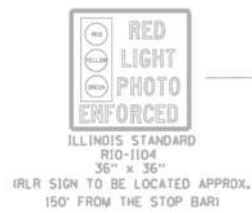
SCALE: N.T.S.
SHEET NO. OF SHEETS STA. TO STA.

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC



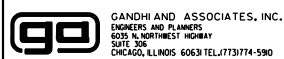
NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 2985
IDOT CENTRACS
FORMER ECON 96

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\ICADD_Sheets\62_IL_Rte 62 at New Wilke Rd.INT.dgn



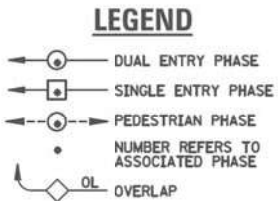
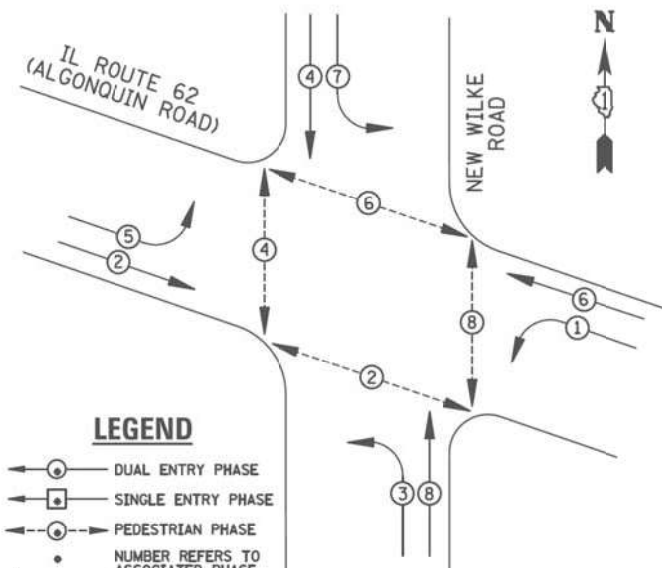
USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
DATE - 10/31/2022		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

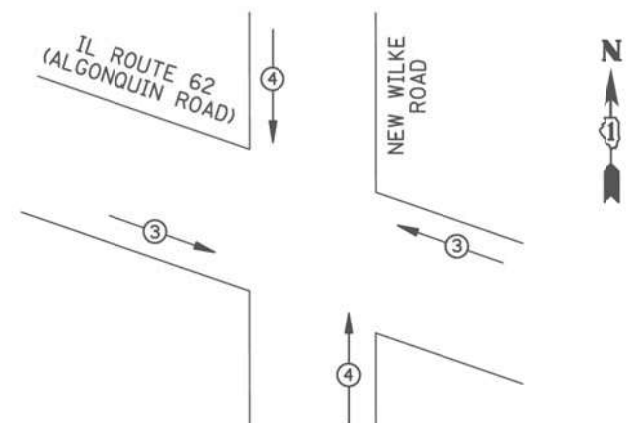
LOCATION #66
IL RTE 62 (ALGONQUIN RD) AT NEW WILKE RD INTERSECTION PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	179
			CONTRACT NO. 62T54	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM



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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\63_IL_Rte 62 at New Wilke Rd_CD.dgn

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					TOTAL = 615.2

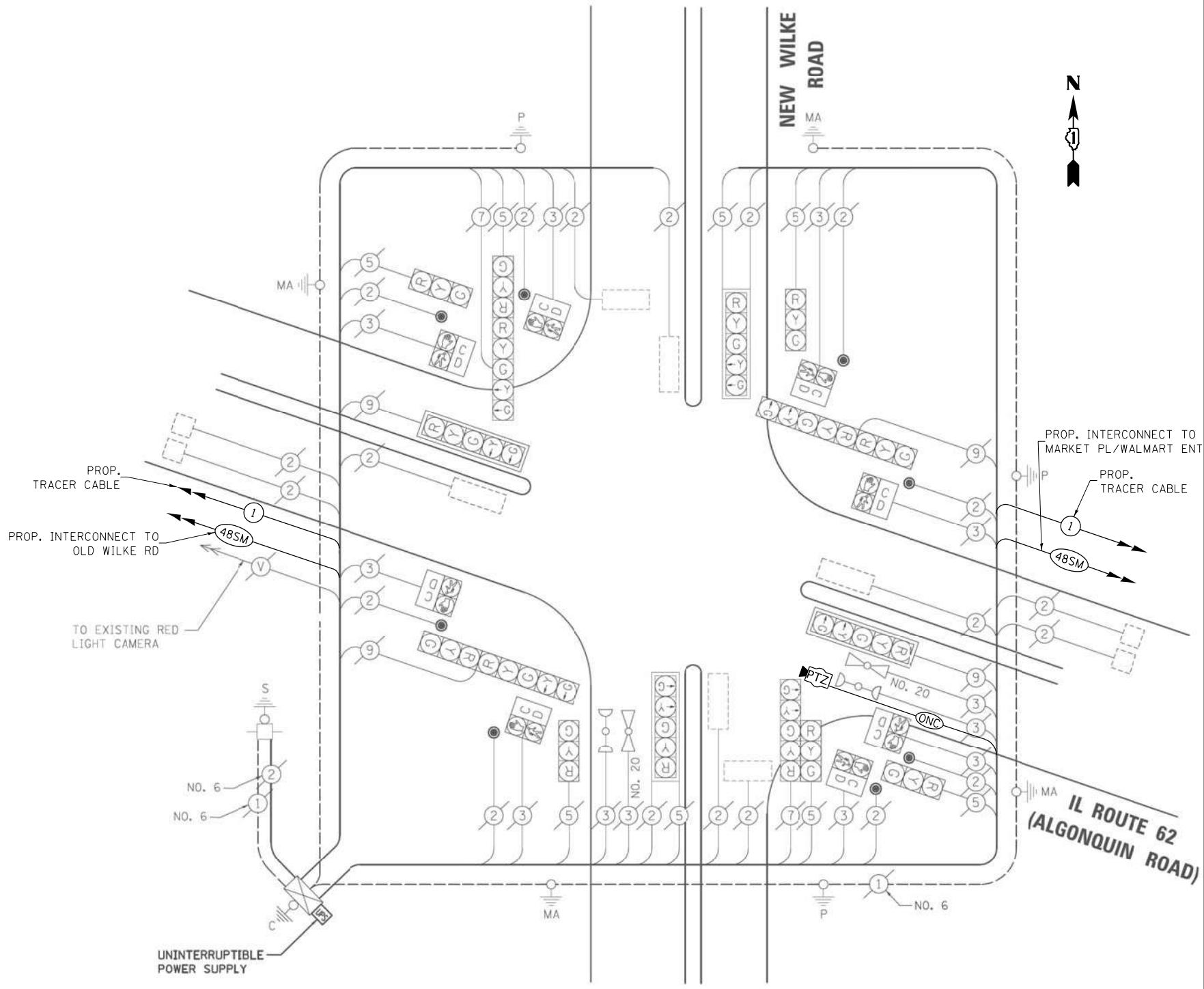
ENERGY SUPPLY CONTACT: X
PHONE: X
COMPANY: X

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	200
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



CABLE PLAN

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #66
IL RTE 62 (ALGONQUIN RD) AT NEW WILKE RD CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

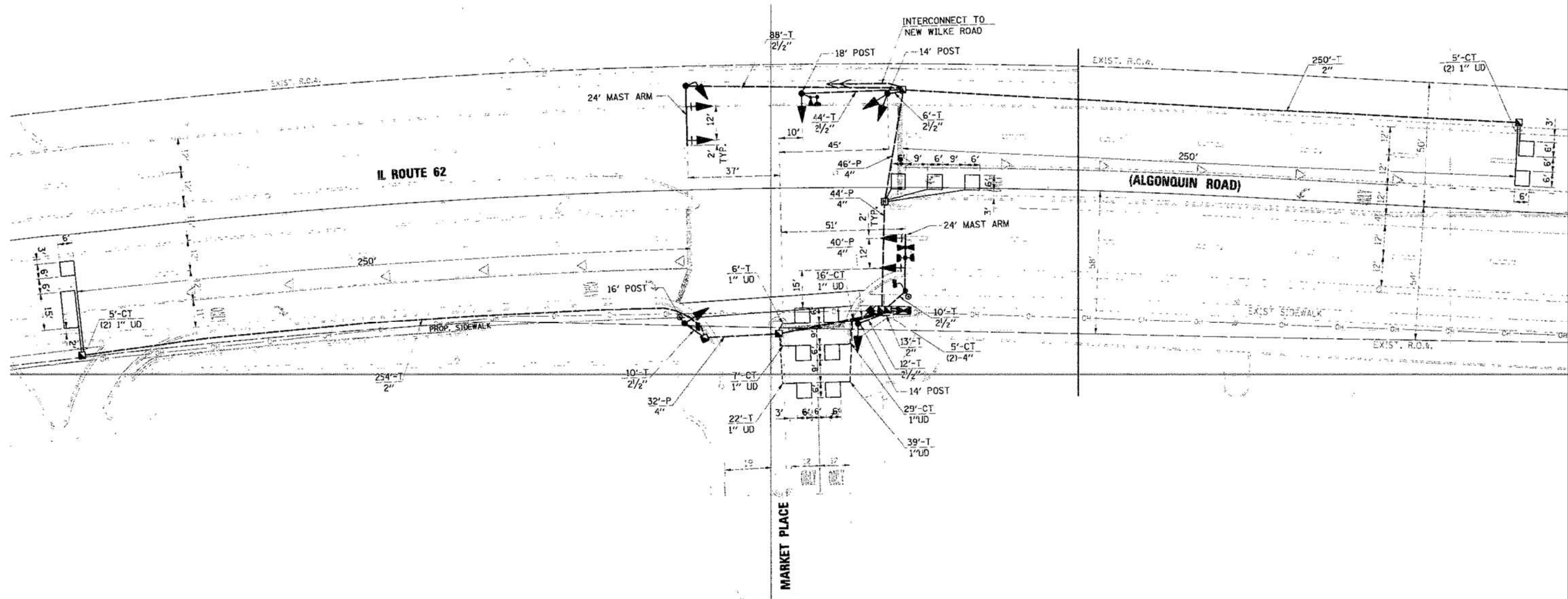
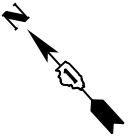
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	180
CONTRACT NO. 62T54			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

**TS 2985
IDOT CENTRACS
FORMER ECON 96**

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 2708
IDOT CENTRACS
FORMER ECON 96

K:\PROJECTS\Projects 2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\64_IL_Rte 62 at Market Pl.INT.dgn



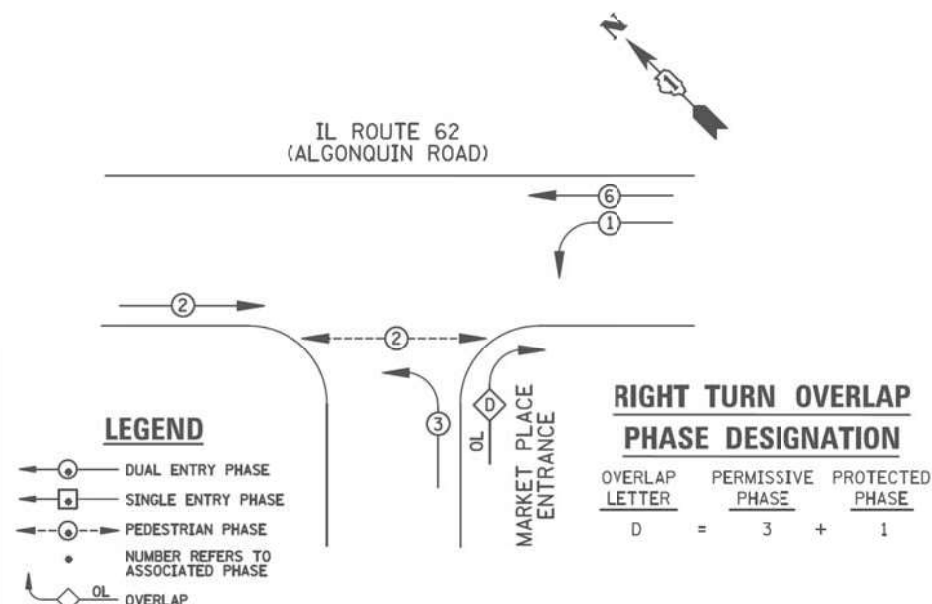
USER NAME = \$USER*	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE*	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

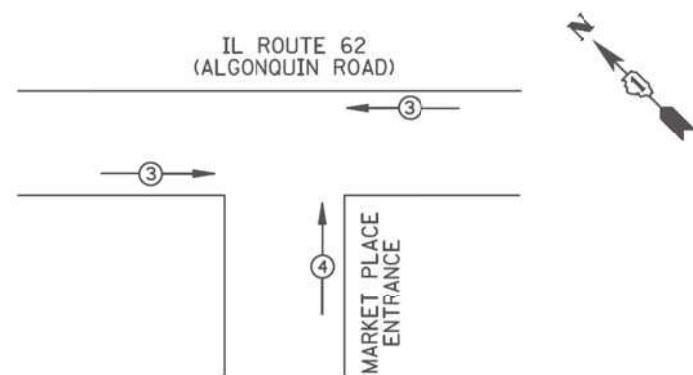
LOCATION #67
IL RTE 62 (ALGONQUIN RD) AT MARKET PL INTERSECTION PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	181
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM



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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
FLASHER		135	25	0.50	

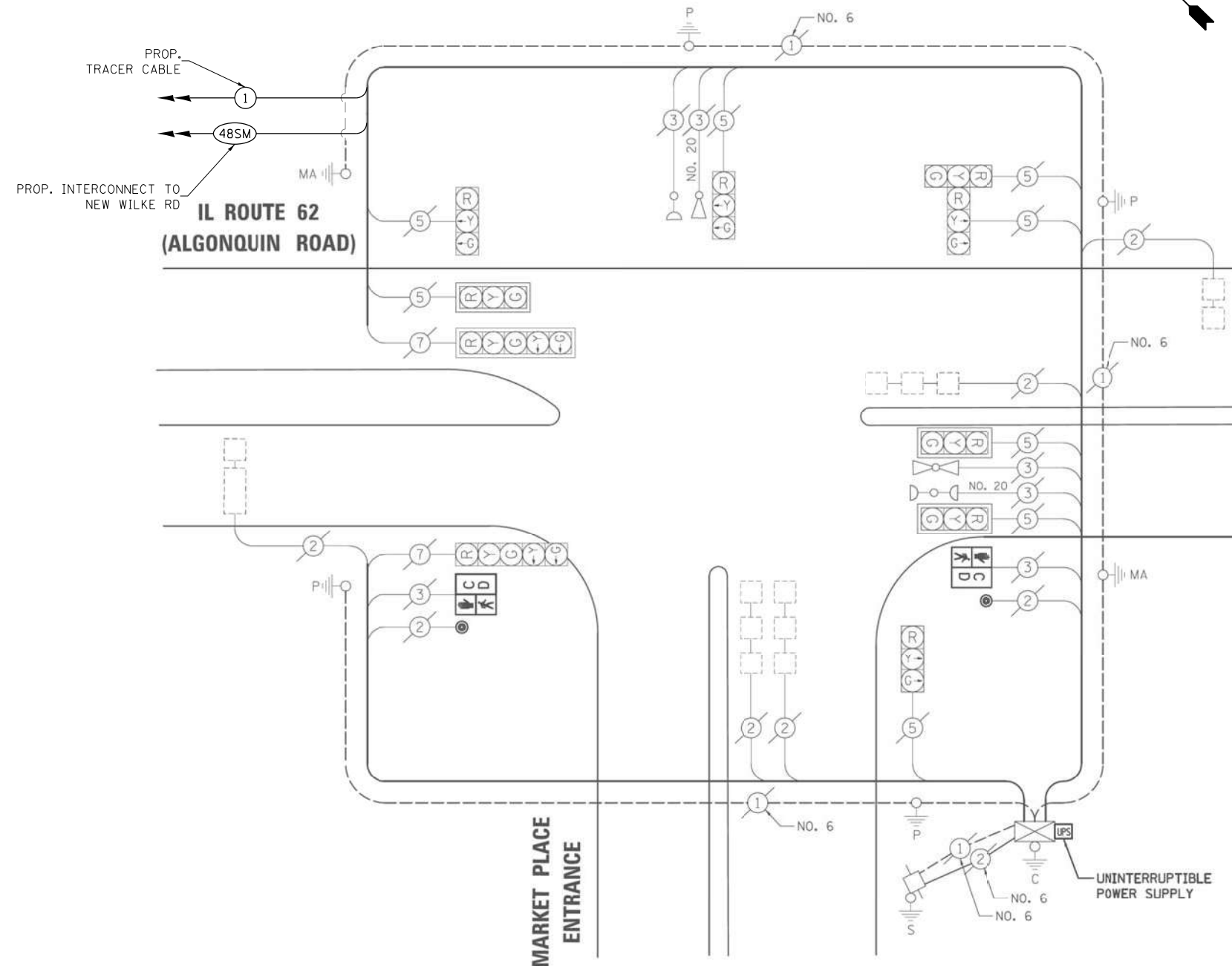
ENERGY COSTS TO: TOTAL = 339.8
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY CONTACT: X
 PHONE: X
 COMPANY: X

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-962-IDD1.CM40 Contracts Phase 2\CADD_Sheets\65_IL_Rte 62 at Market Pl.CAD.dgn



USER NAME = \$USER\$
 DESIGNED - EA
 DRAWN - EA, AV
 CHECKED - MS
 DATE - 10/31/2022

REVISED -
 REVISED -
 REVISED -
 REVISED -

LOCATION #67
IL RTE 62 (ALGONQUIN RD) AT MARKET PL CABLE PLAN
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

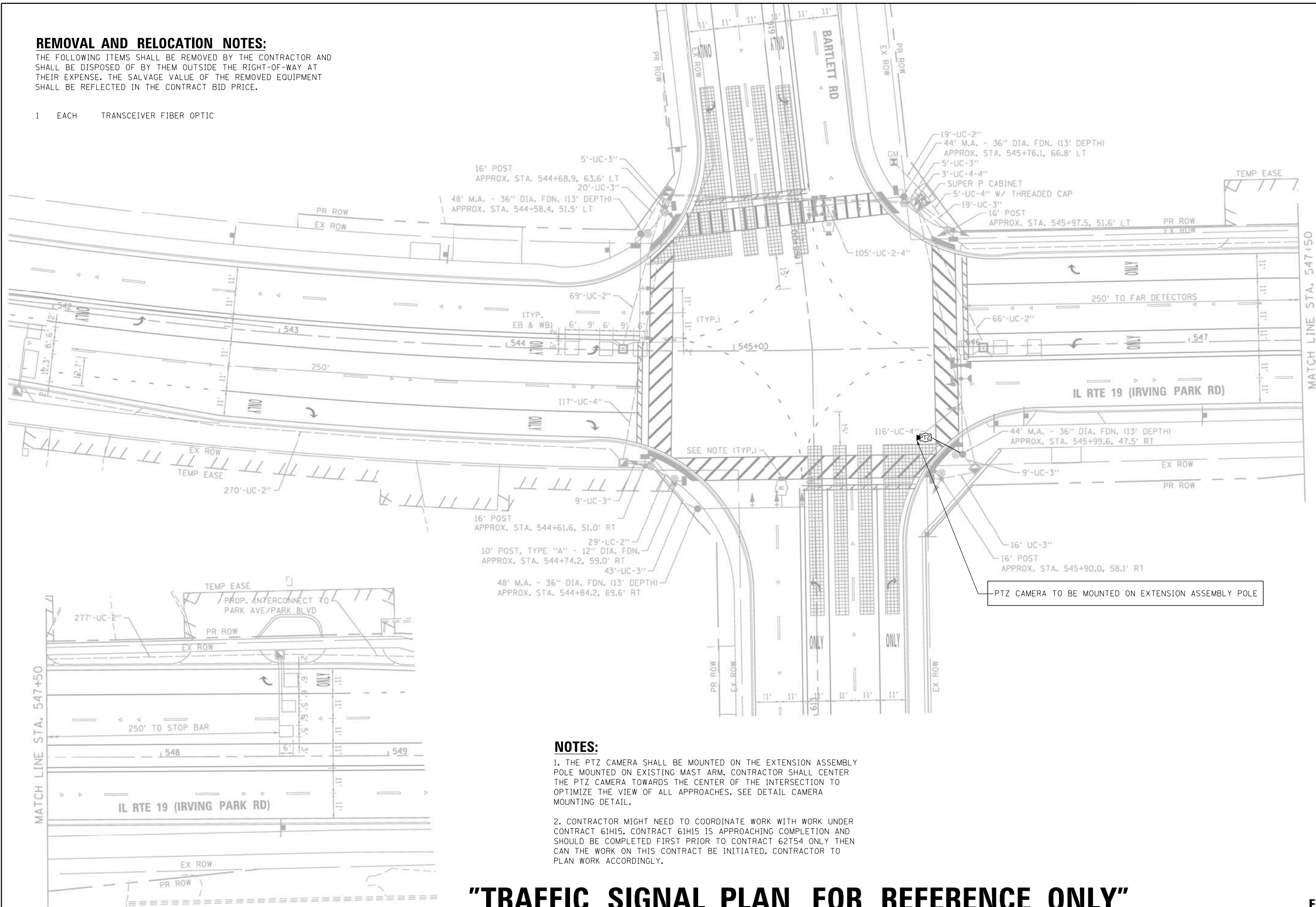
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	182
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 2708 IDOT CENTRACS FORMER ECON 96

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC



NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.
2. CONTRACTOR MIGHT NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 61H15. CONTRACT 61H15 IS APPROACHING COMPLETION AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 1935
IDOT CENTRACS
FORMER ECON 158**

FILE NAME = K:\PROJECTS\Projects_2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\166_IL_Rte_19_at_Bartlett_Rd_INT.dgn

	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #68
IL RTE 19 (IRVING PARK RD) AT BARTLETT RD INTERSECTION PLAN**

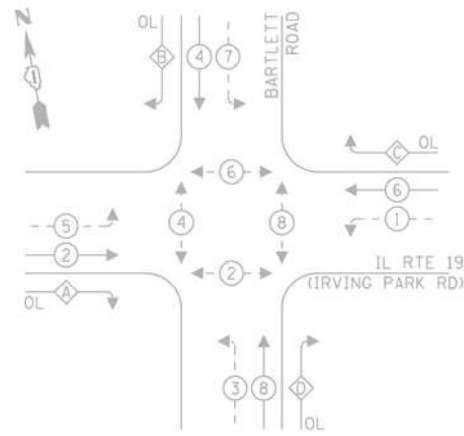
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	183
FED. ROAD DIST. NO. - ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 62T54	

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	78
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

PROPOSED CONTROLLER SEQUENCE



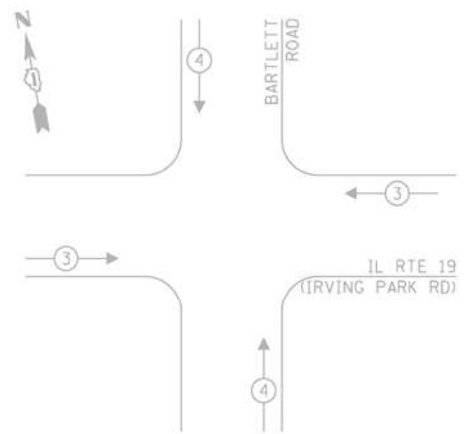
LEGEND:

- ← ⊙ → 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
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

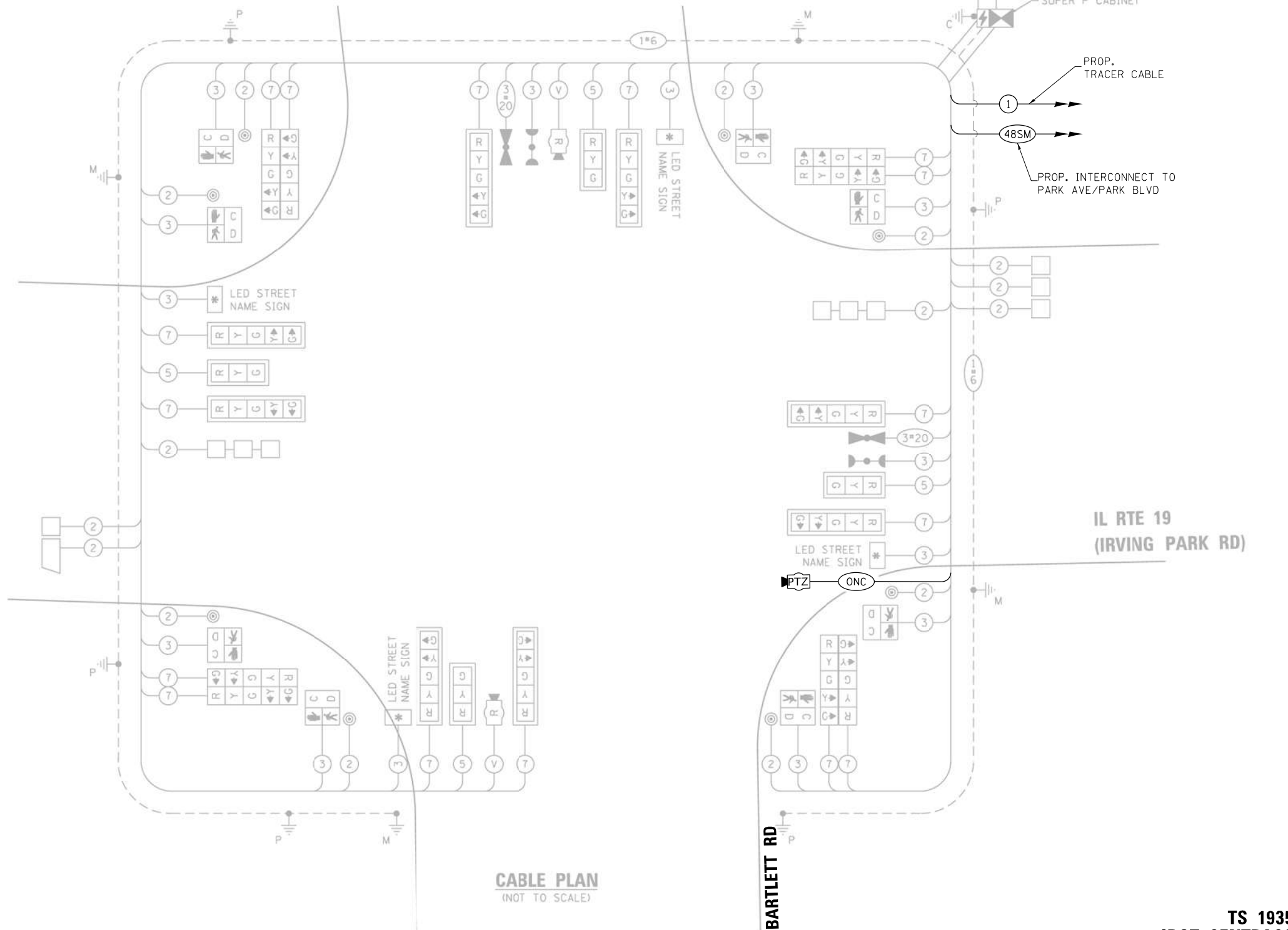


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	32	10	10	32.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				555.0

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W. CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #68
IL RTE 19 (IRVING PARK RD) AT BARTLETT RD CABLE PLAN

TS 1935
IDOT CENTRACS
FORMER ECON 158

DESIGNED - EA	REVISIONS
DRAWN - EA, AV	REVISIONS
CHECKED - MS	REVISIONS
DATE - 10/31/2022	REVISIONS

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

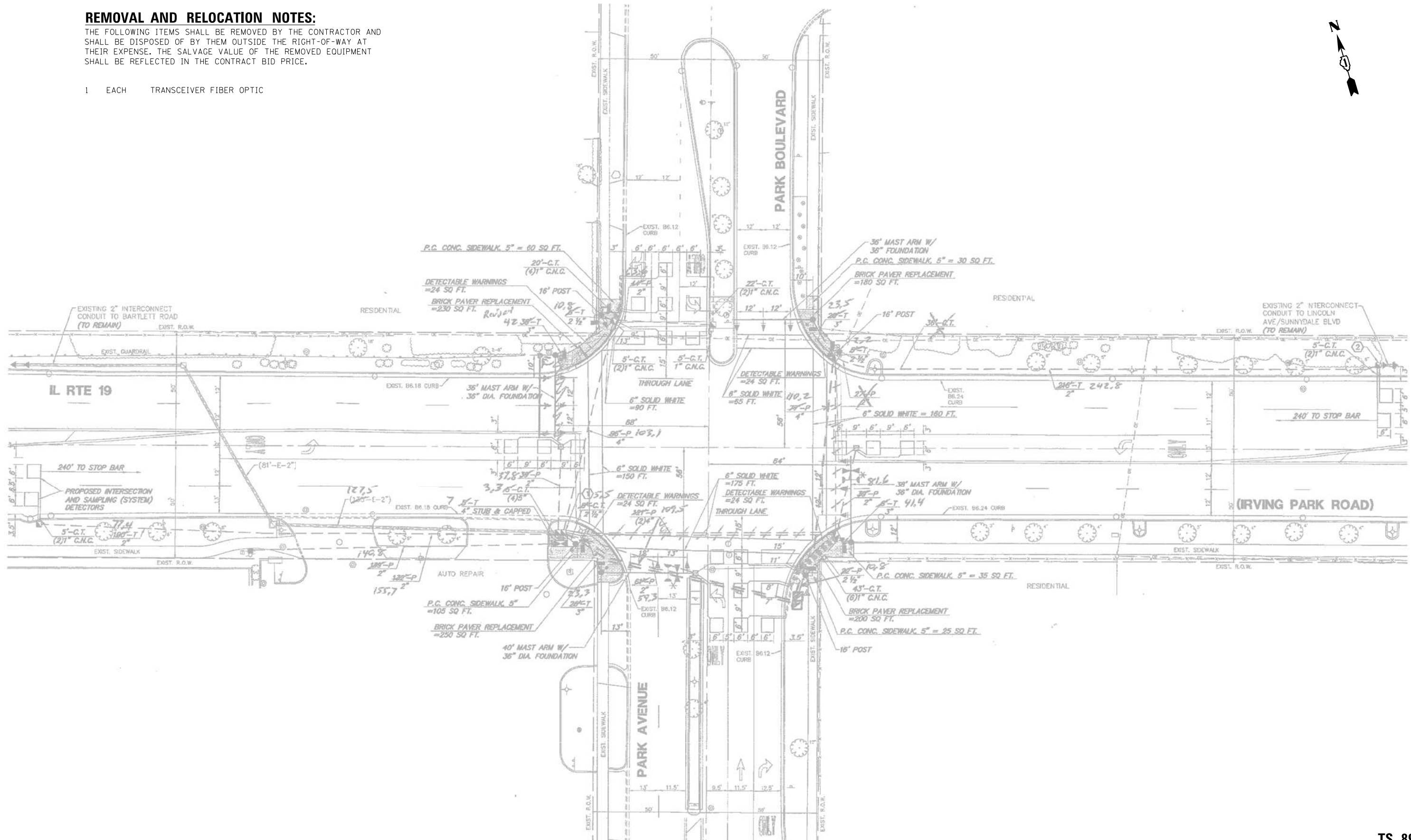
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	184
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Centracs Phase 2\CADD\Sheets\62T54 IL RTE 19 at Bartlett Rd.CADD.dgn

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

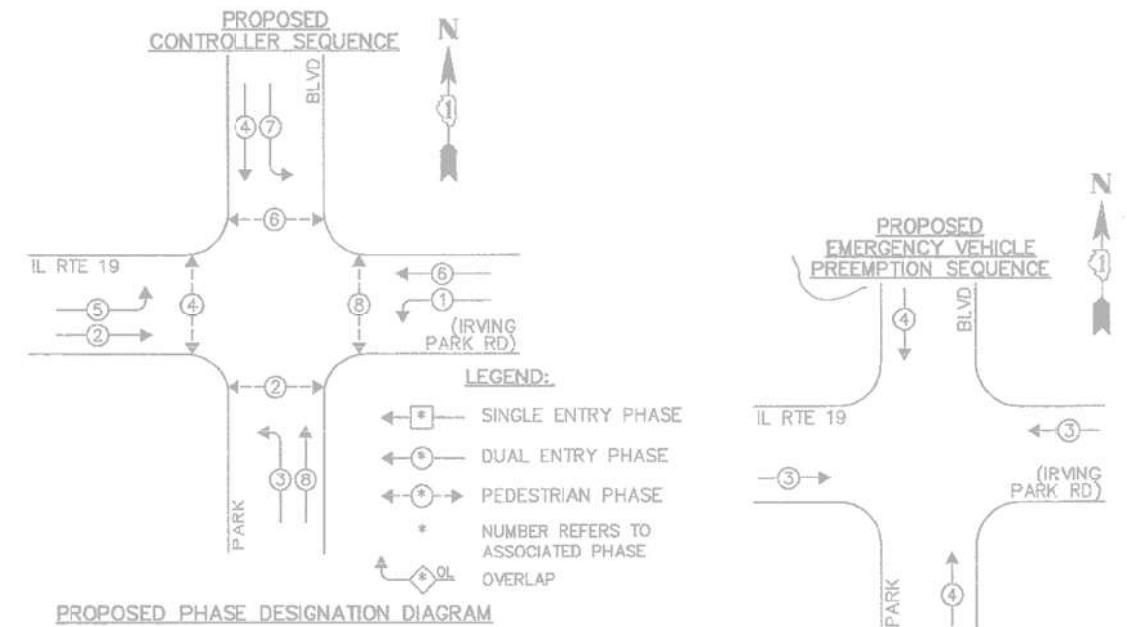
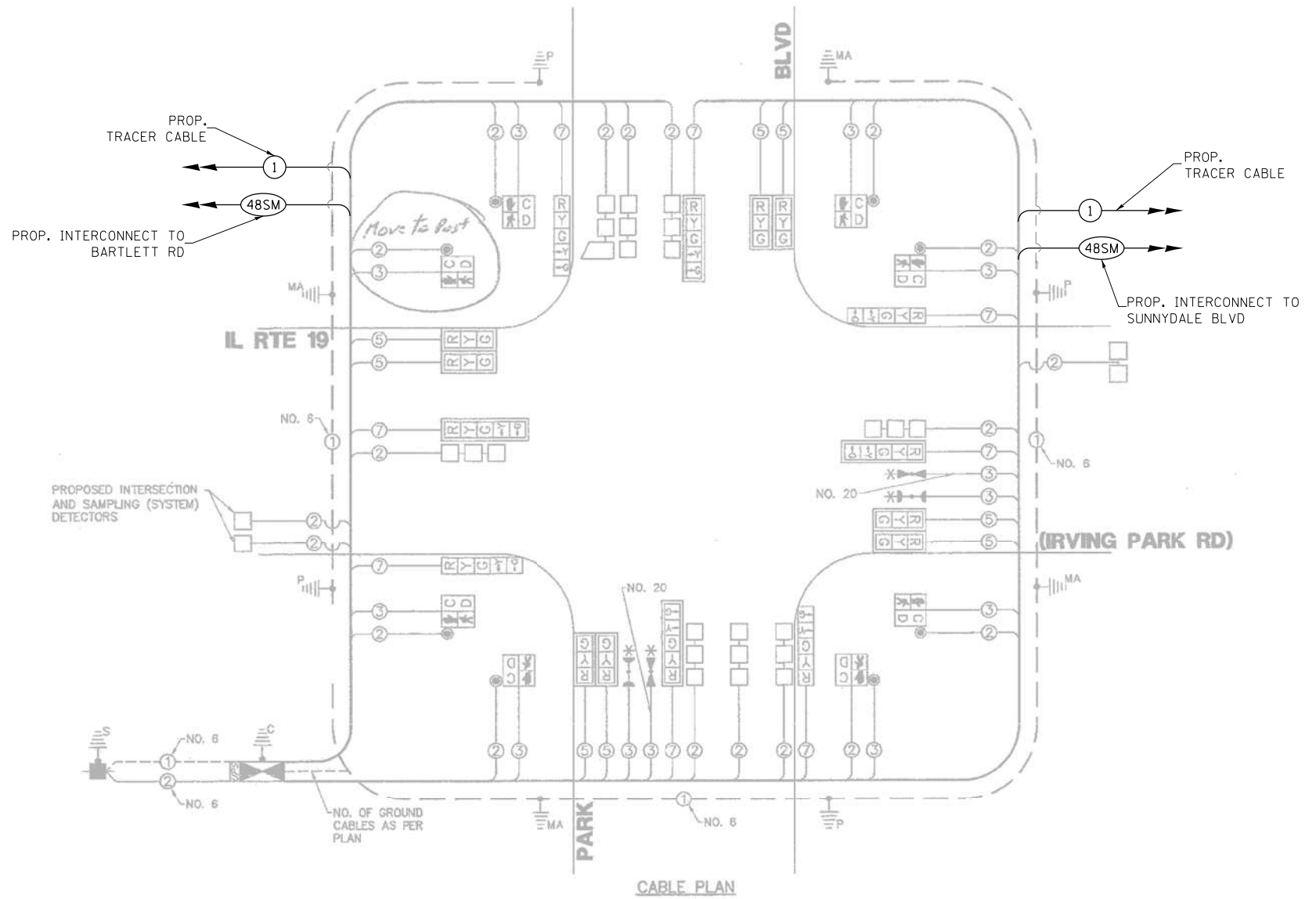
TS 8940
IDOT CENTRACS
FORMER ECON 158

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\ICODD.Sheets\168_IL Rte 19 at Park Ave.INT.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60639 TEL: 773.774.590	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #69			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		IL RTE 19 (IRVING PARK RD) AT PARK AVE INTERSECTION PLAN	VAR	2023 TRAFFIC 02	VARIOUS	306	185		
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 62T54			
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT												

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	L.E.D.		
SIGNAL (RED)	18	135	17	0.50	136.0
SIGNAL (YELLOW)	18	135	25	0.25	40.0
SIGNAL (GREEN)	18	135	15	0.25	96.0
ARROW	18	135	12	0.10	18.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					618.2

ENERGY COSTS - BILLED TO: IDOT - DISTRICT 1
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: _____
 PHONE: _____
 COMPANY: COM-ED

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CMAD-Centrac-Phase 2\CADD\Sheets\N69_IL_Rte 19 at Park Ave.CADD.dgn

	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #69
IL RTE 19 (IRVING PARK RD) AT PARK AVE CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	186
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

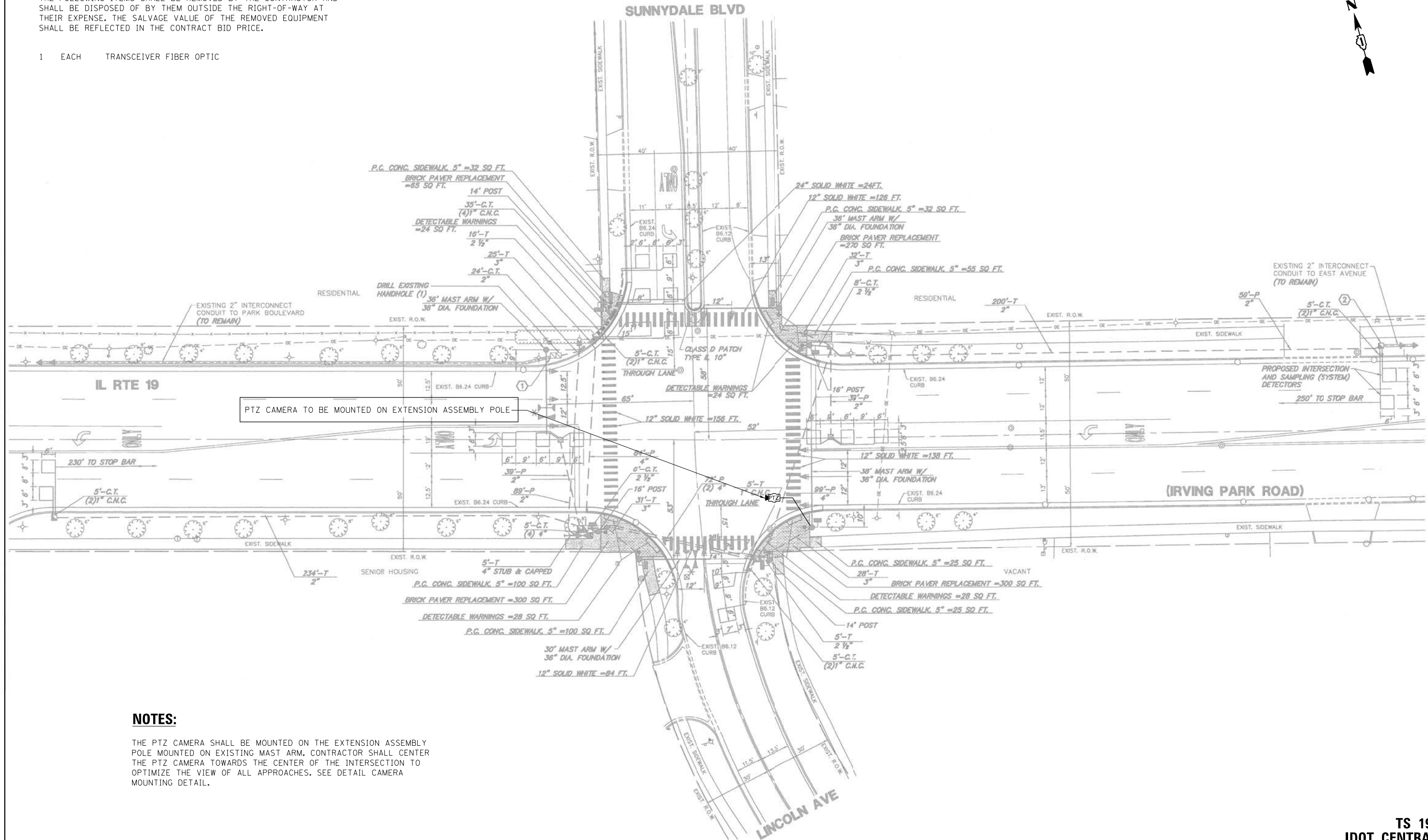
**TS 8940
IDOT CENTRACS
FORMER ECON 158**

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

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

1 EACH TRANSCEIVER FIBER OPTIC

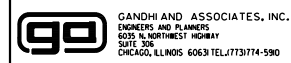


PTZ CAMERA TO BE MOUNTED ON EXTENSION ASSEMBLY POLE

NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-IDOT-CM40-Contracts Phase 2\CADD\Sheets\170_IL_Rte_19_at_Sunnydale_Bldv_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

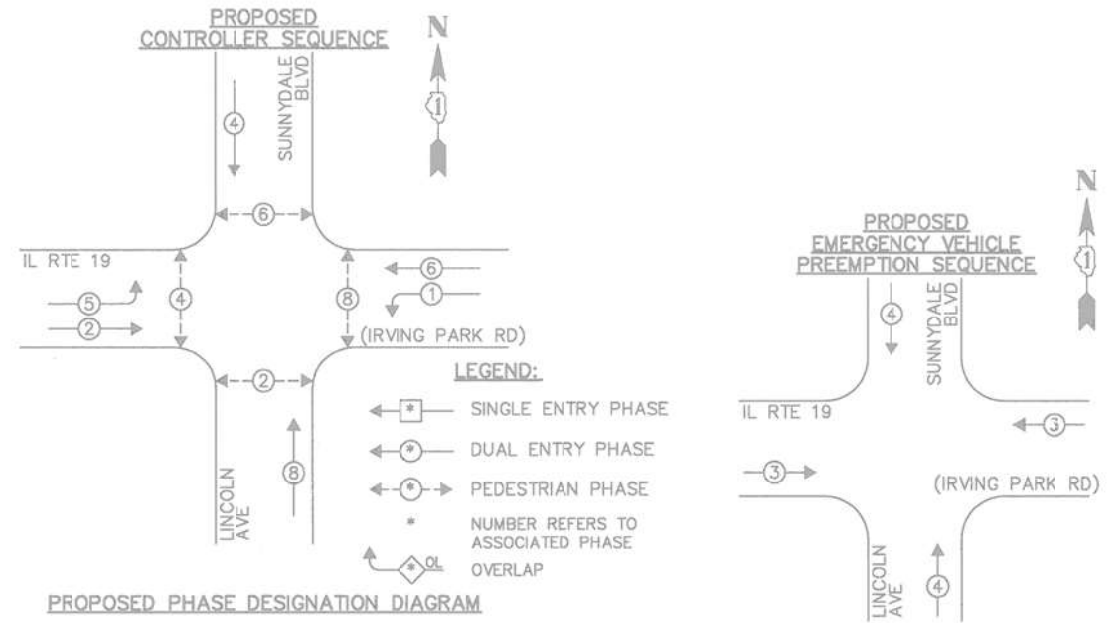
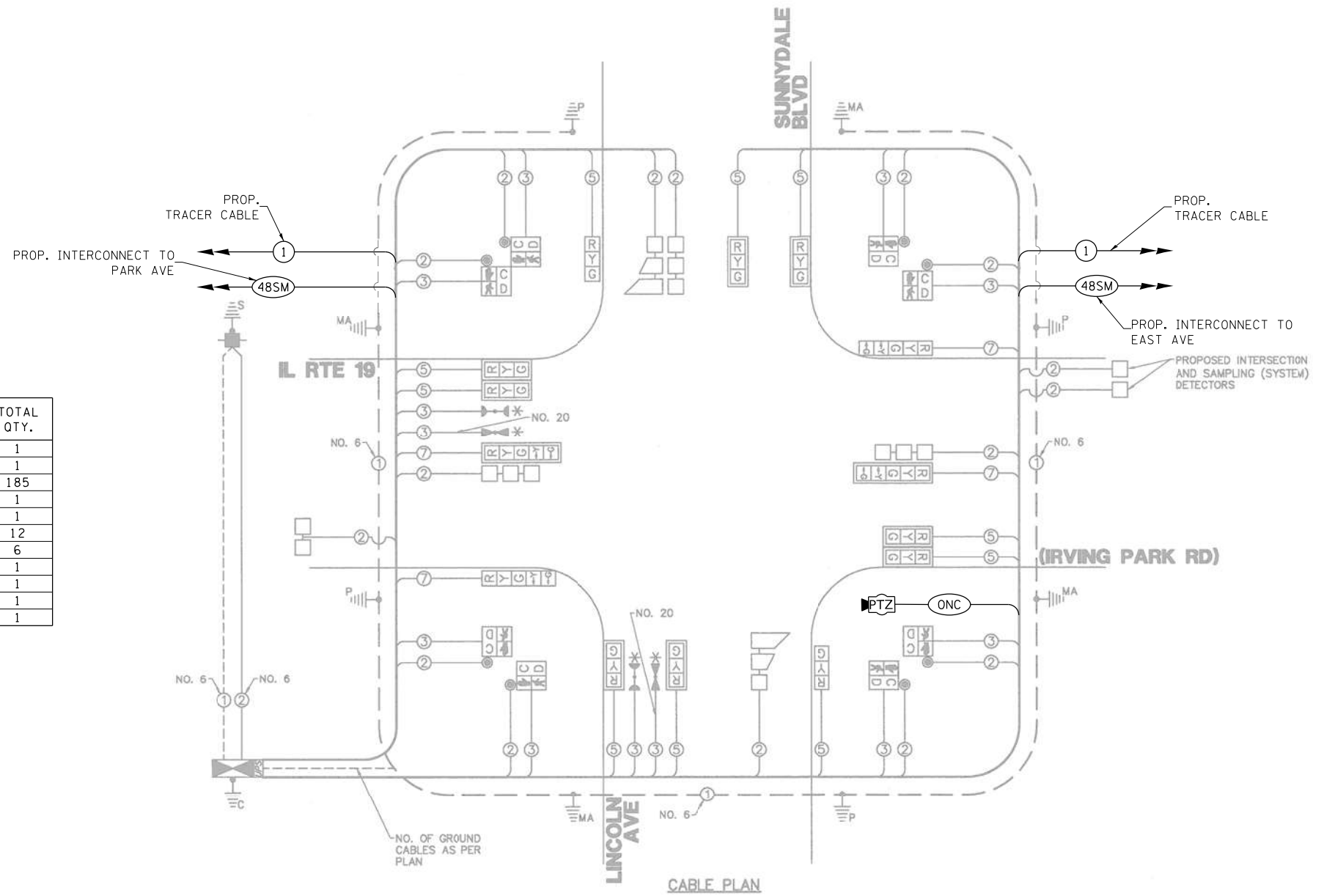
LOCATION #70
IL RTE 19 (IRVING PARK RD) AT SUNNYDALE BLVD INTERSECTION PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	187
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 1980
IDOT CENTRACS
FORMER ECON 158

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	185
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	L.E.D.		
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	35.0
SIGNAL (GREEN)	14	135	15	0.25	84.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	—	100	1.00	100.0
LUMINAIRE	—	—	250	0.50	—
L.E.D. ST. NAME SIGN	—	—	64	0.50	—
VIDEO SYSTEM	—	—	150	1.00	—
BATTERY BACKUP	1	—	25	1.00	25.0
ILLUMINATED SIGN	—	—	25	0.05	—
TOTAL =					472.6

ENERGY COSTS - BILLED TO: IDOT - DISTRICT 1
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHAMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: _____
 PHONE: _____
 COMPANY: COM-ED

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\1711_IL_Rte_19_at_Sunnydale_Bldv_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #70 IL RTE 19 (IRVING PARK RD) AT SUNNYDALE BLVD CABLE PLAN

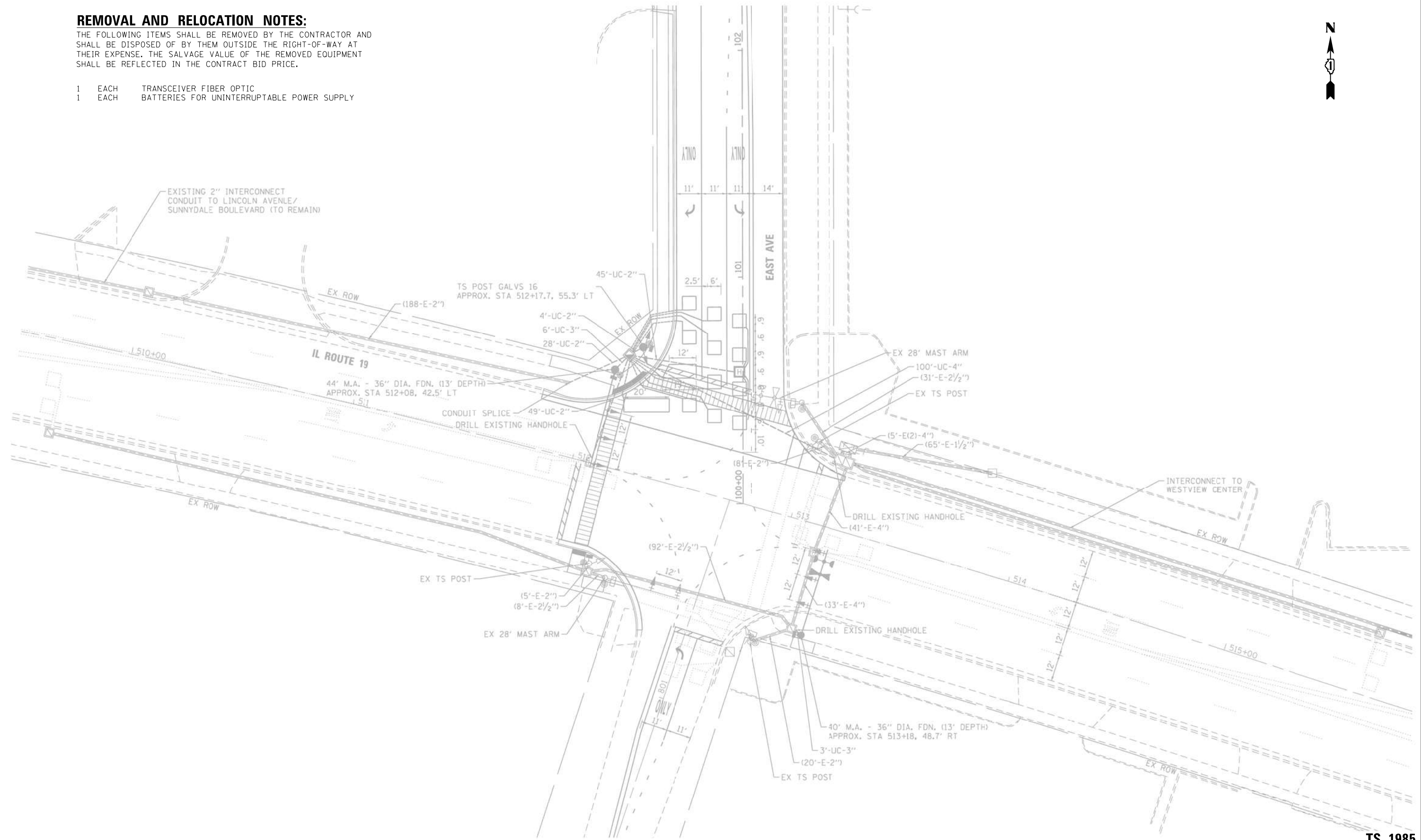
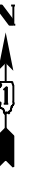
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	188
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 1980 IDOT CENTRACS FORMER ECON 158

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



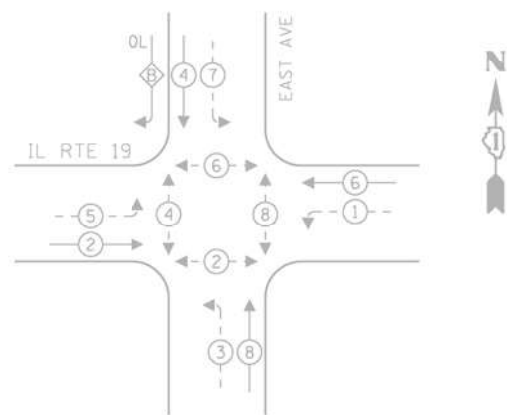
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 1985
IDOT CENTRACS
FORMER ECON 158**

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\172_IL_Rte_19_at_East_Ave_INT.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #71 IL RTE 19 (IRVING PARK RD) AT EAST AVE INTERSECTION PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.	VAR	2023 TRAFFIC Q2	VARIOUS	306	189
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -						FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	CONTRACT NO. 62T54			

EXISTING CONTROLLER SEQUENCE



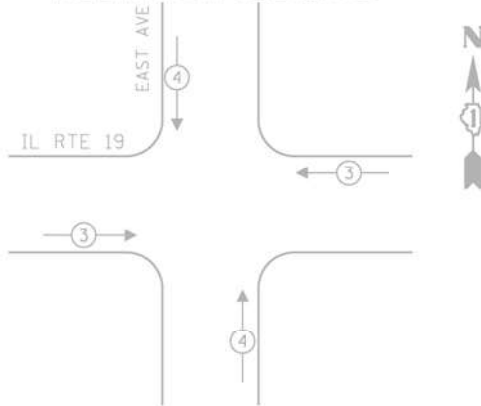
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
LUPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				483.5

ENERGY COSTS TO:

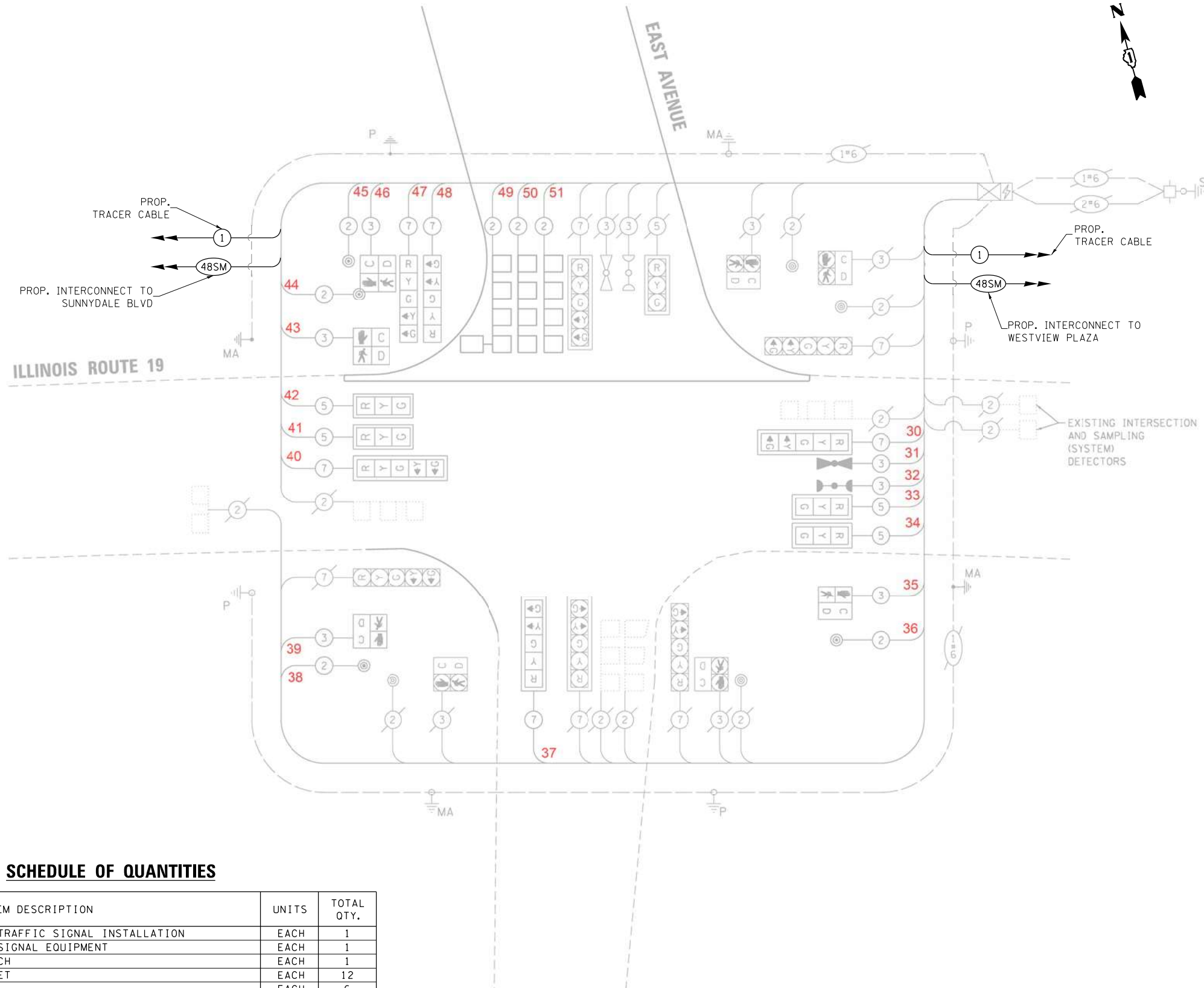
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: AARON BABU
PHONE: 708-683-9348
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

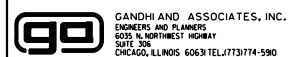
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

CABLE PLAN



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD\Sheets\173_IL_Rte_19_at_East_Ave_CD.dgn



DESIGNED - EA
DRAWN - EA, AV
CHECKED - MS
DATE - 10/31/2022

USER NAME = \$USER\$
PLOT SCALE = 40.0000' / 1" IN.
PLOT DATE = \$DATE\$

REVISED - 12-2-2022
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #71
IL RTE 19 (IRVING PARK RD) AT EAST AVE CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

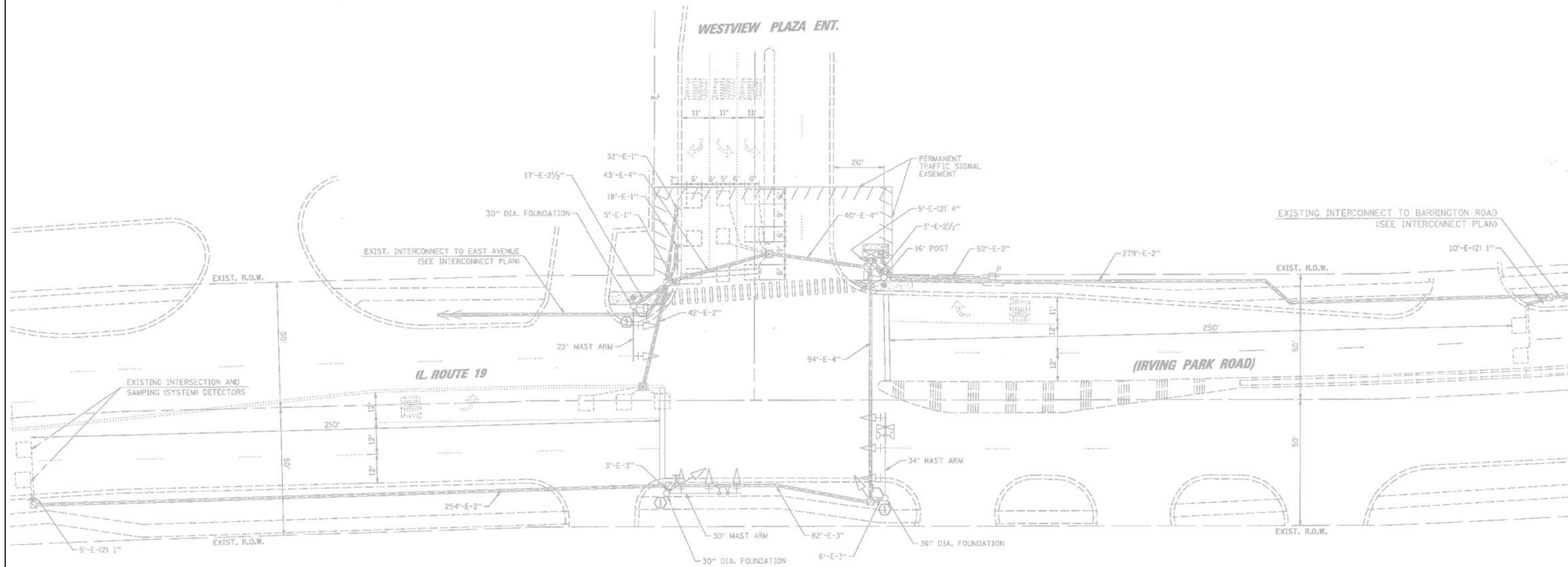
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	190
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 1985
IDOT CENTRACS
FORMER ECON 158**

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC

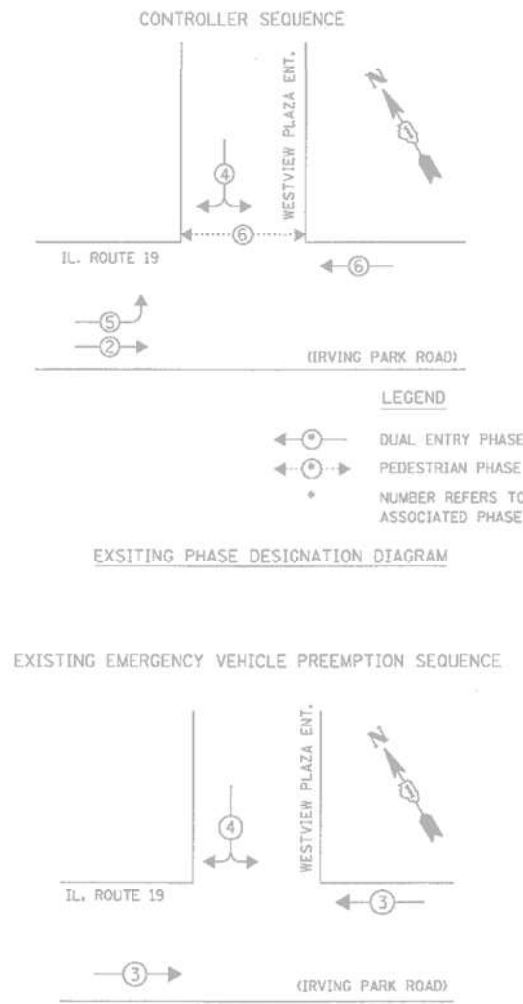


"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 13756
IDOT CENTRACS
FORMER ECON 158**

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-IDOT-CM40 Contracts Phase 2\CADD_Sheets\174_IL_Rte_19_at_Westview_Plaza_INT.dgn

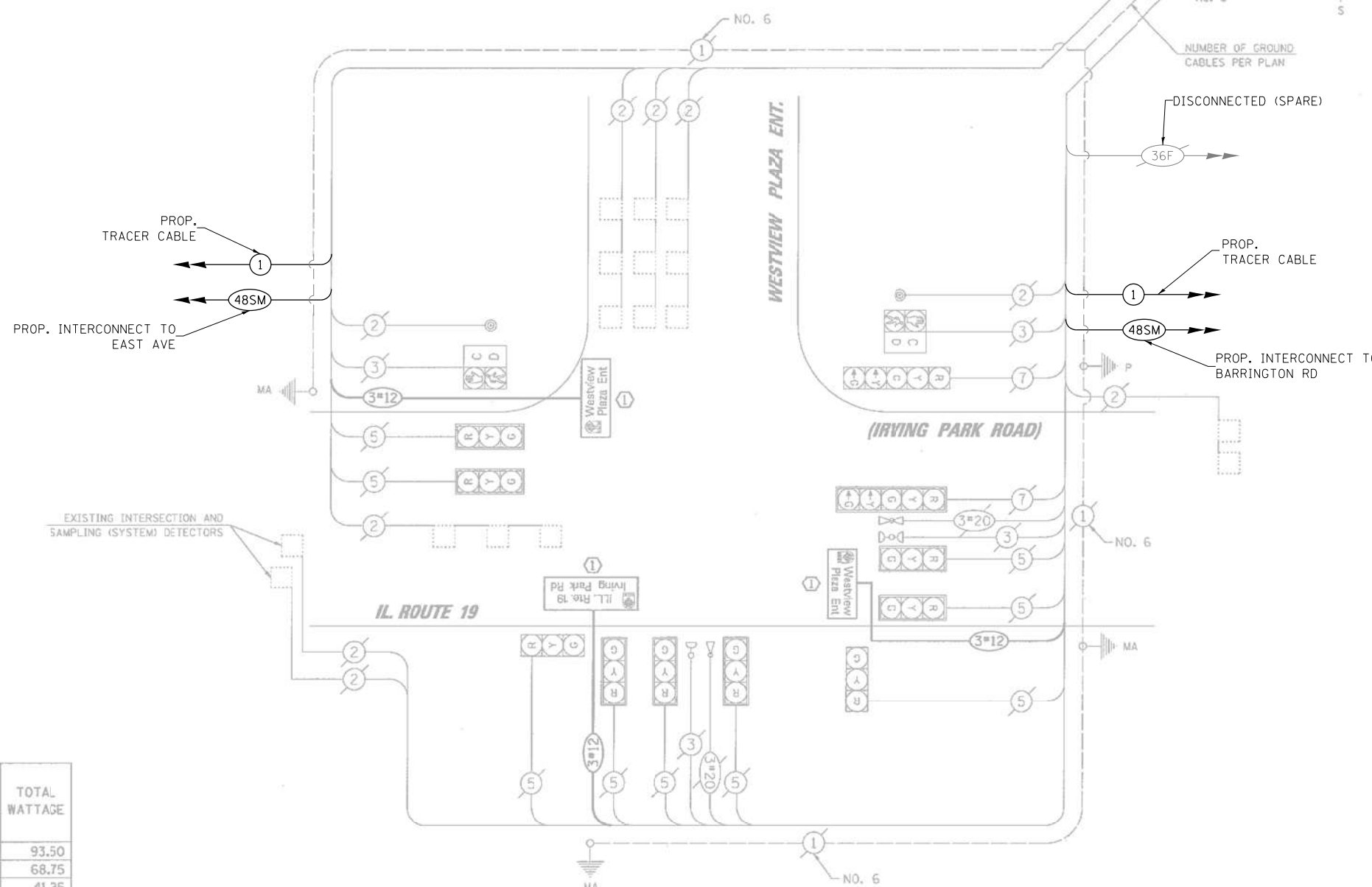
<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: 773-774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #72 IL RTE 19 (IRVING PARK RD) AT WESTVIEW PLAZA INTERSECTION PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC Q2	VARIOUS	306	191
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -						FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT				



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	11		17	0.50	93.50
(YELLOW)	11		25	0.25	68.75
(GREEN)	11		15	0.25	41.25
ARROW	4		12	0.10	4.80
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	3		25	0.05	3.75
VIDEO SYSTEM	-		150	1.00	-
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	362.05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MARTY RUBIN
 PHONE: (847) 608-2400
 COMPANY: COMED



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD\Sheets\175_IL_Rte_19_at_Westview_Plaza.Caddgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION #72
 IL RTE 19 (IRVING PARK RD) AT WESTVIEW PLAZA CABLE PLAN
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

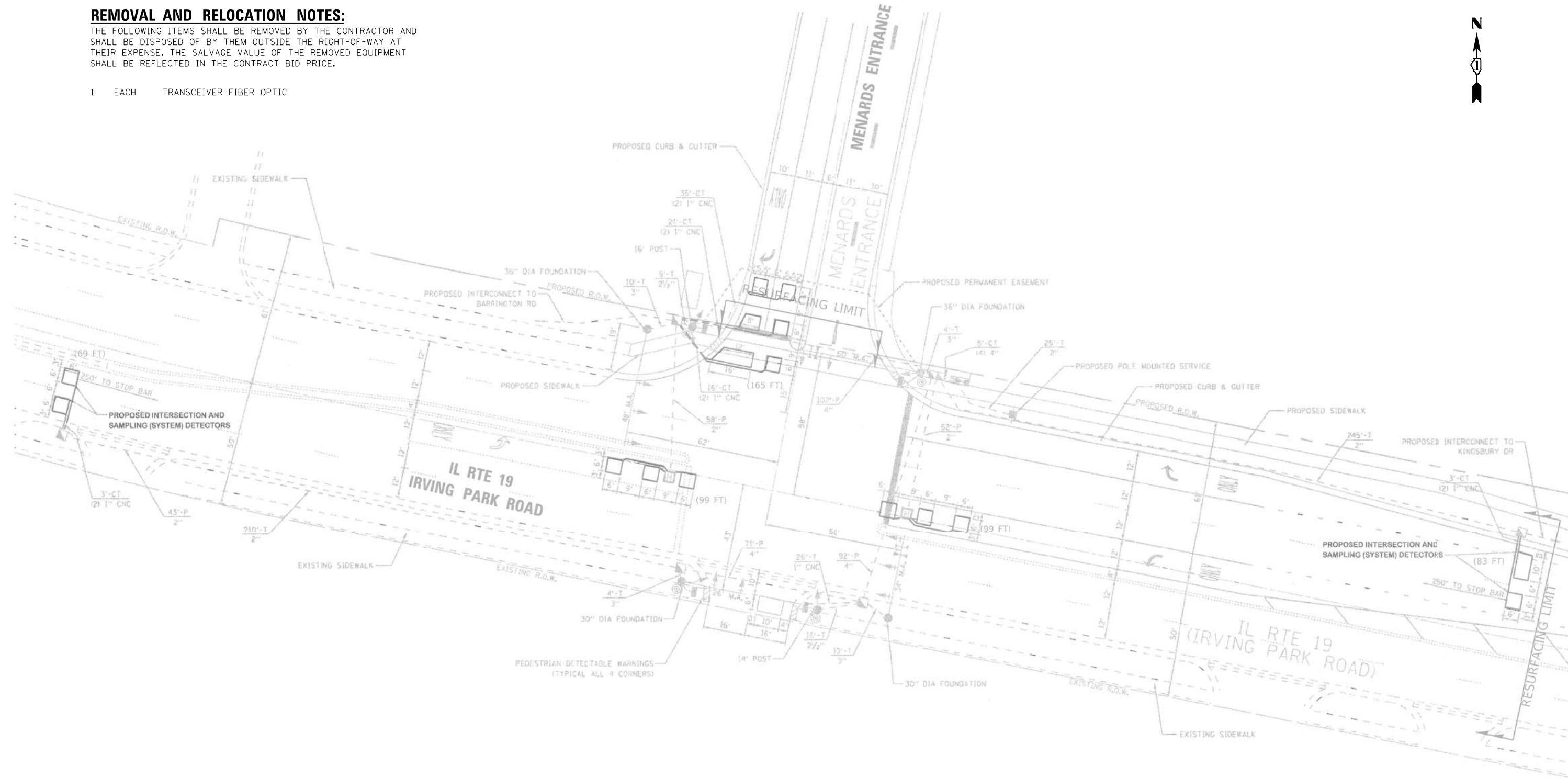
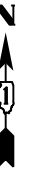
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	192
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 13756
 IDOT CENTRACS
 FORMER ECON 158

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 13750
IDOT CENTRACS
FORMER ECON 158**

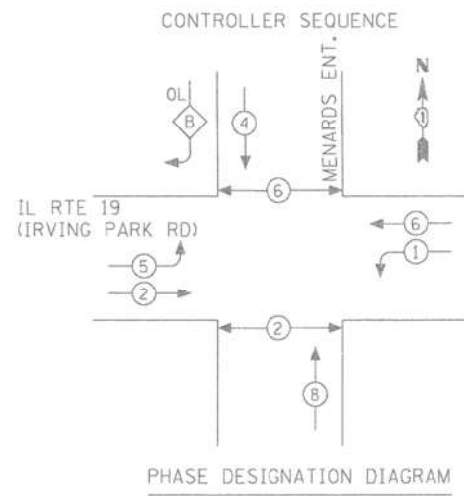
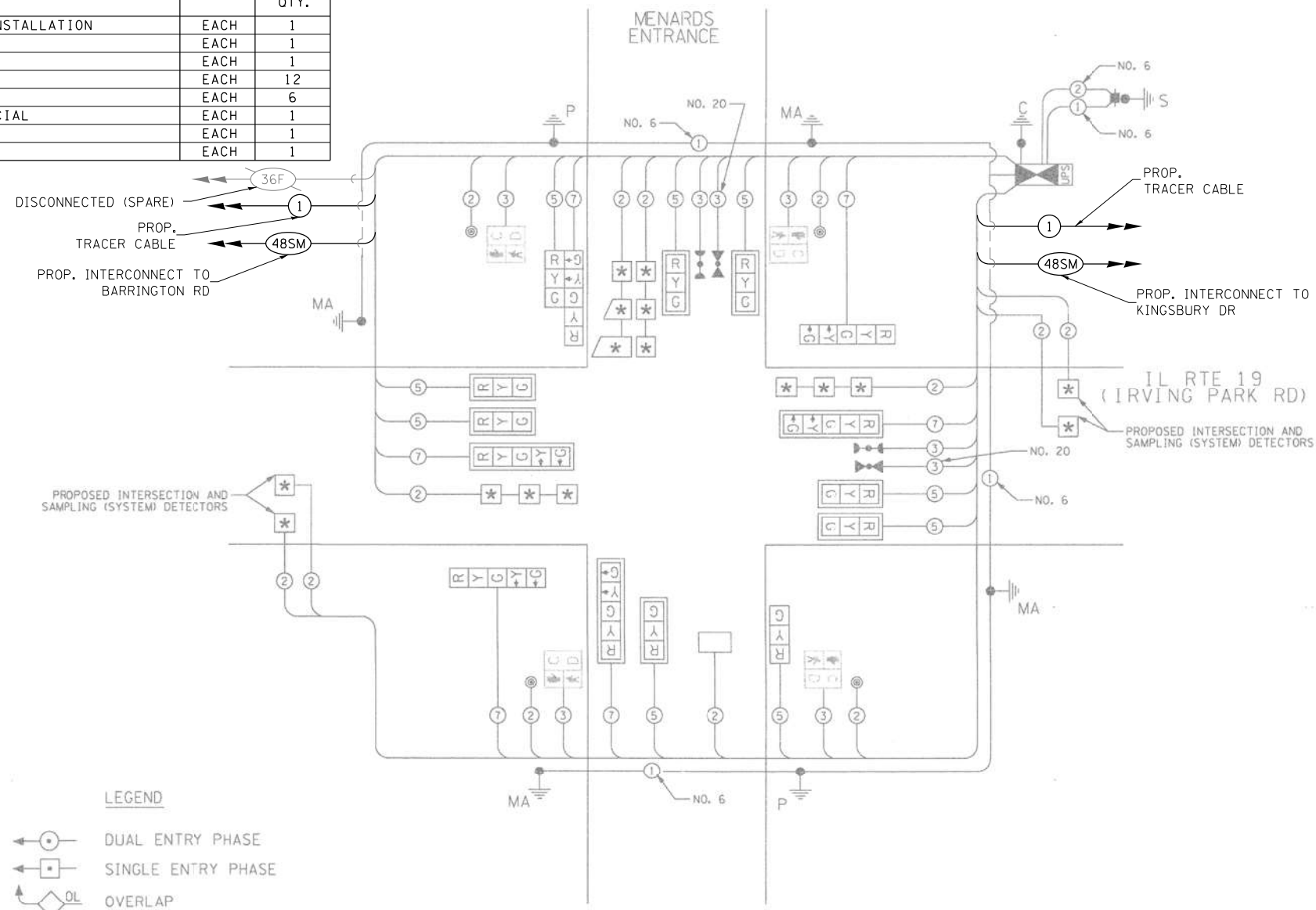
FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\ICODD_Sheets\176_IL Rte 19 at Menards Ent_INT.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #73 IL RTE 19 (IRVING PARK RD) AT MENARDS ENT INTERSECTION PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC Q2	VARIOUS	306
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -									CONTRACT NO. 62T54		
												FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

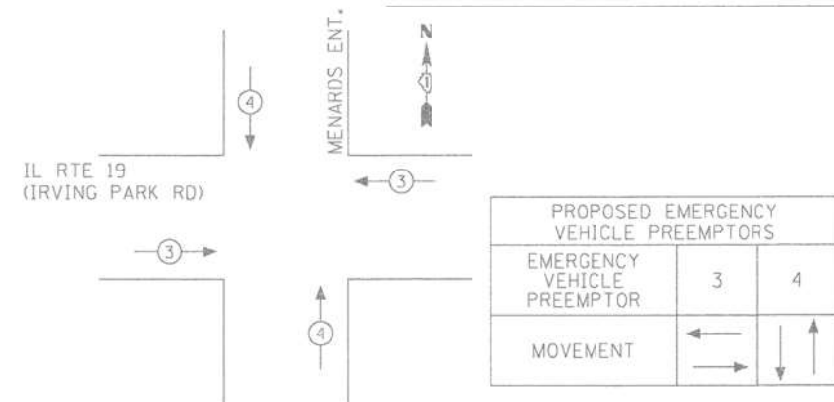
PROPOSED CABLE PLAN



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

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE (LED)	% OPERATION	
SIGNAL (RED)	15	17	0.50	0.50	127.5
(YELLOW)	15	25	0.25	0.25	93.75
(GREEN)	15	15	0.25	0.25	56.25
ARROW	12	12	0.10	0.10	14.4
PED. SIGNAL	4	25	1.00	1.00	100.0
CONTROLLER	1	100	1.00	1.00	100.0
ILLUM. SIGN	-				
FLASHER			0.50		
ENERGY COSTS TO:					TOTAL = 491.9
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: MARTY RUBIN PHONE: (847) 608-2400 COMPANY: COM. ED.					

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #73
IL RTE 19 (IRVING PARK RD) AT MENARDS ENT CABLE PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	194
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

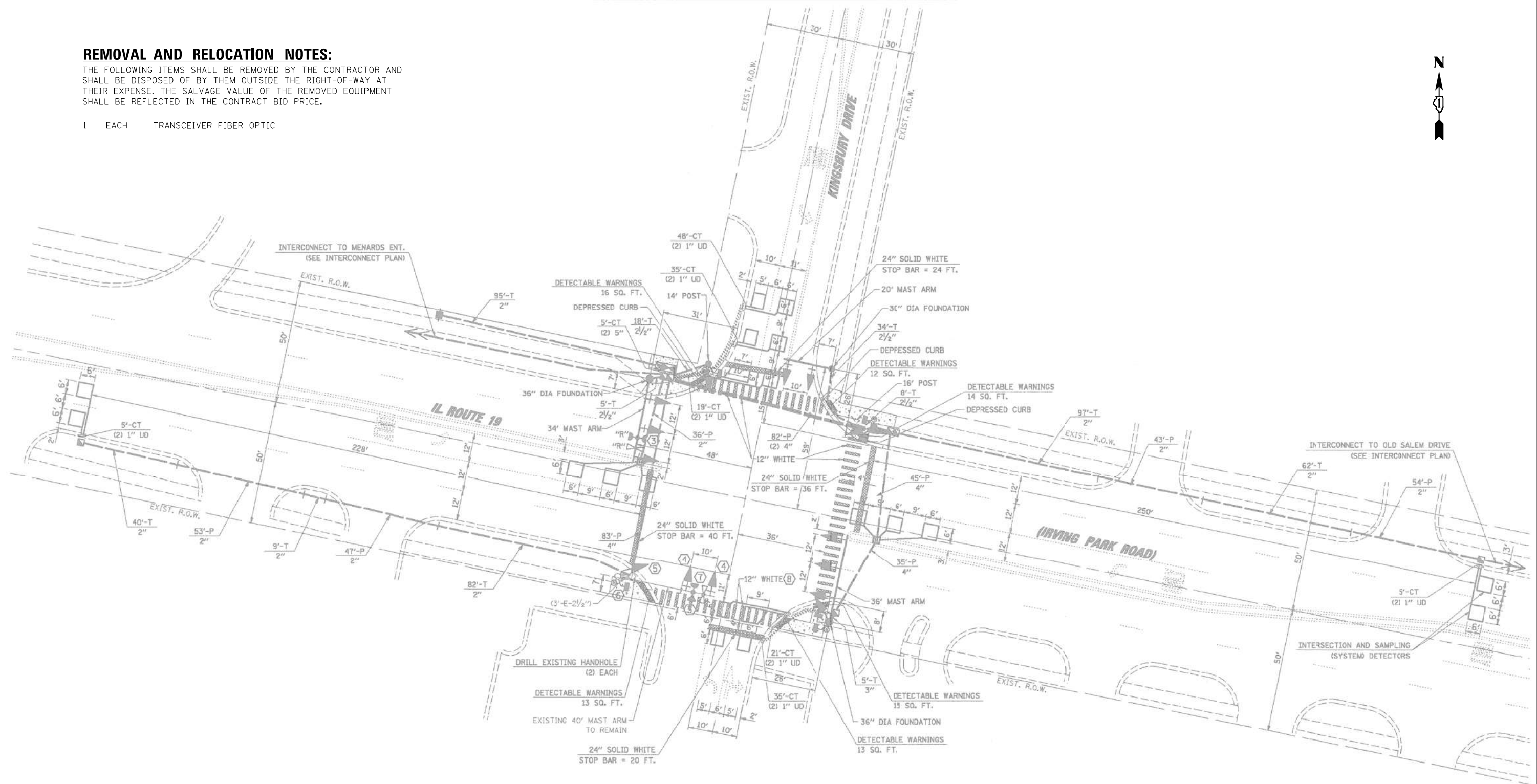
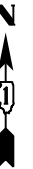
**TS 13750
IDOT CENTRACS
FORMER ECON 158**

FILE NAME = K:\PROJECTS\Projects_2022\22-ESR-502-IDOT-CM40-Centracs-Phase 2\CADD_Sheets\177-IL_Rte 19 at Menards Ent-CD.dgn

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

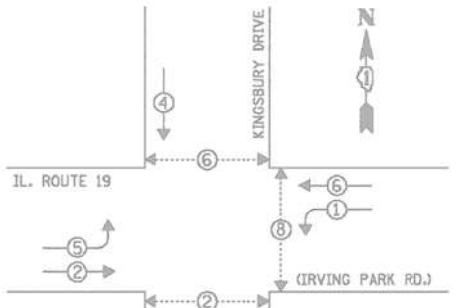
**TS 13755
IDOT CENTRACS
FORMER ECON 158**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-1D01.CM40 Contracts Phase 2\ICODD_Sheets\178_IL_Rte_19_at_Kingsbury_Dr_INT.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: 773/774-590</p>	USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">LOCATION #74 IL RTE 19 (IRVING PARK RD) AT KINGSBURY DR INTERSECTION PLAN</p>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC Q2	VARIOUS	306
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -						<p align="center">CONTRACT NO. 62T54</p>					
								<p>FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT</p>					



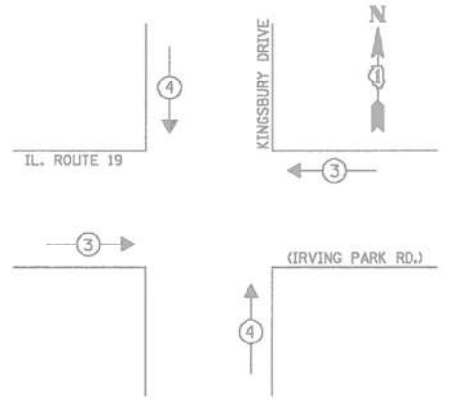
CONTROLLER SEQUENCE



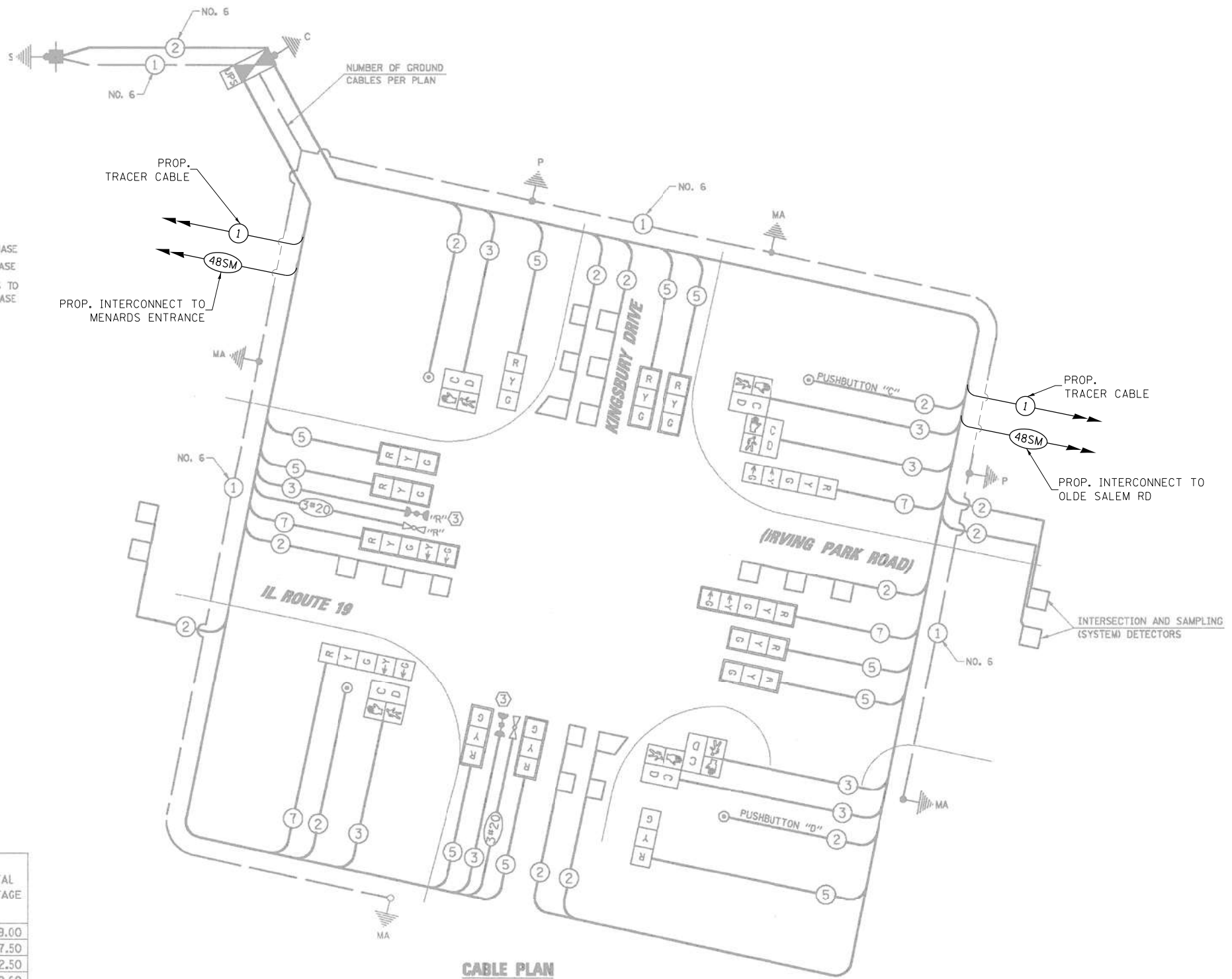
LEGEND
 ← ⊗ → DUAL ENTRY PHASE
 ← ⊗ → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



CABLE PLAN

NOTE:
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	14		15	0.25	52.50
ARROW	8		12	0.10	9.60
PED. SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	-	150	-	1.00	-
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 518.60

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MARTY RUBIN
 PHONE: (847) 608-2400
 COMPANY: COMED

	USER NAME = \$USER*	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #74
IL RTE 19 (IRVING PARK RD) AT KINGSBURY DR CABLE PLAN
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	196
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

TS 13755
IDOT CENTRACS
FORMER ECON 158

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-602-IDOT-CM40-Contracts Phase 2\CADD\Sheets\179_IL_Rte 19 at Kingsbury Dr-.CD.dgn

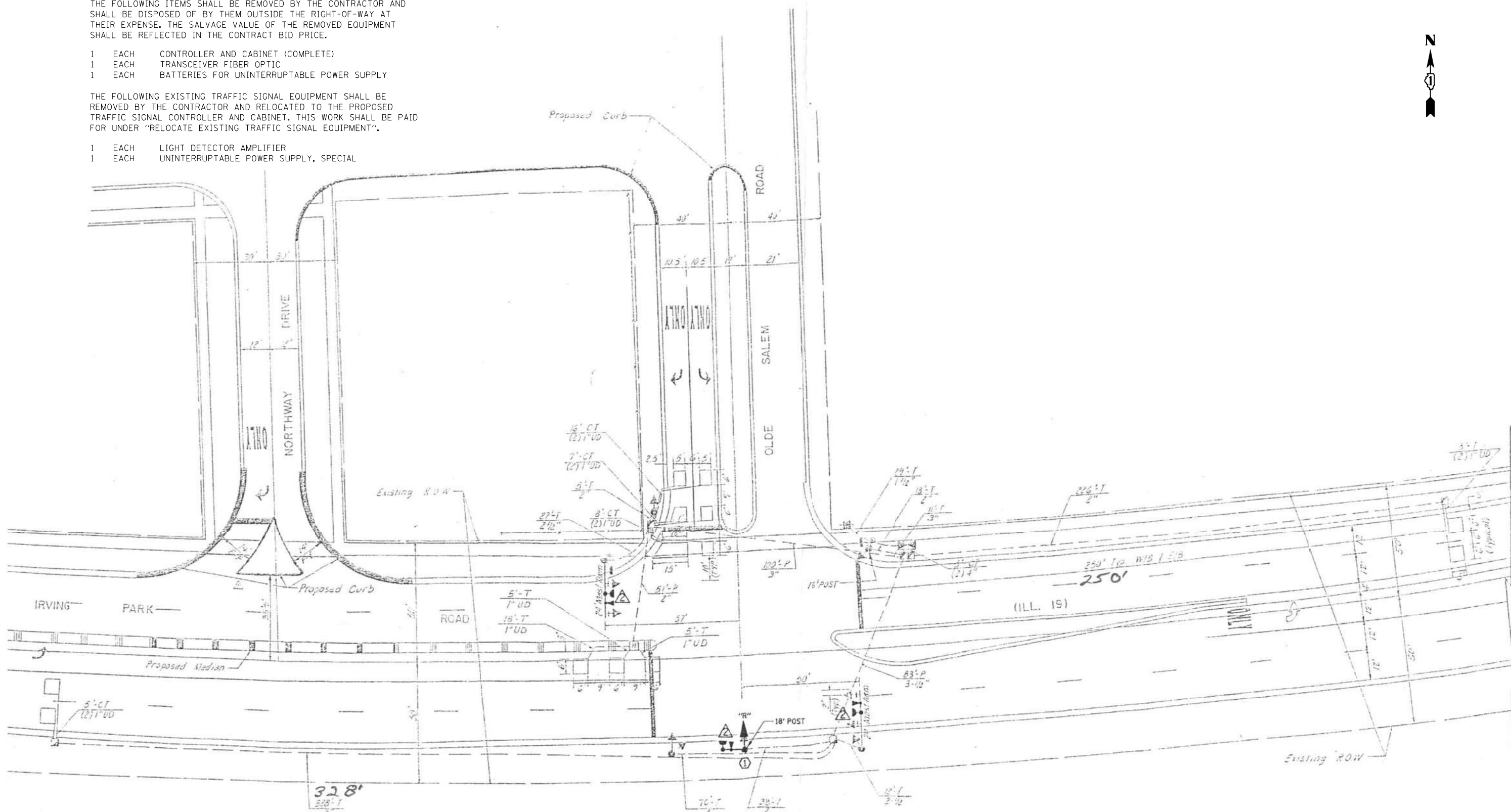
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 21450
IDOT CENTRACS
FORMER ECON 158**

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\180_IL_Rte 19 at Olde Salem Rd.INT.dgn



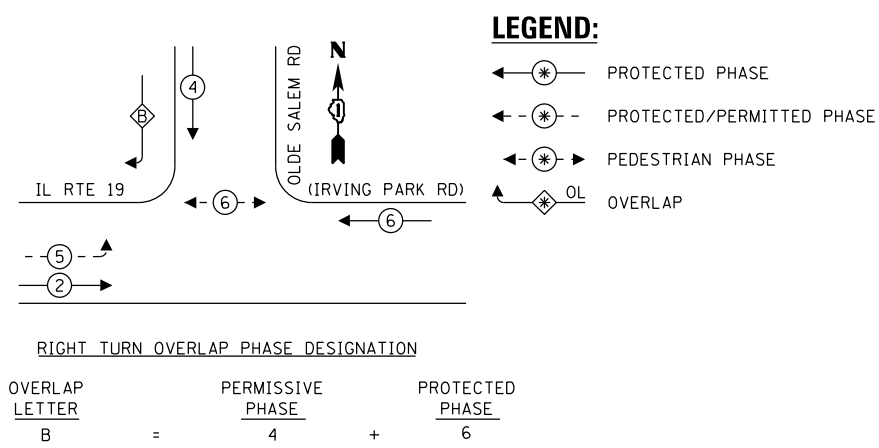
USER NAME = \$USER*	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISIONS -
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

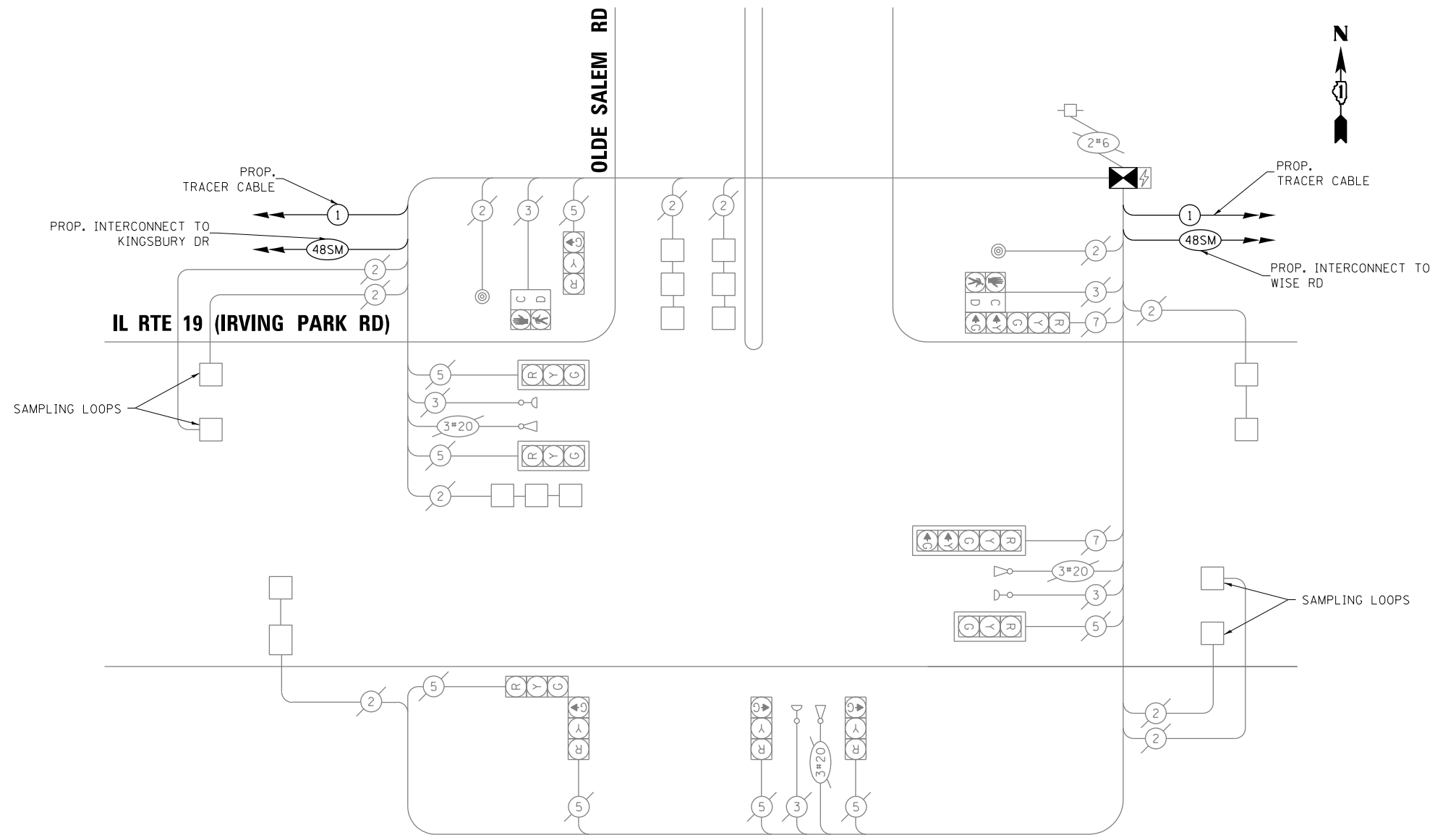
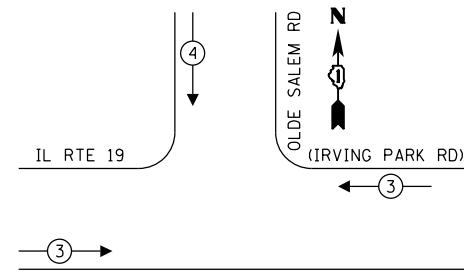
LOCATION #75			
IL RTE 19 (IRVING PARK RD) AT OLDE SALEM RD INTERSECTION PLAN			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	197
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

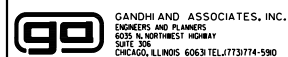


CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	9
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\B1.IL Rte 19 at Olde Salem Rd.CADD.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / 1" =	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE*		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #75
IL RTE 19 (IRVING PARK RD) AT OLDE SALEM RD CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	198
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 21450
IDOT CENTRACS
FORMER ECON 158**

REMOVAL AND RELOCATION NOTES:

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

1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

1 EACH CONTROLLER

NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

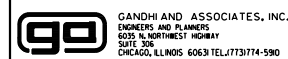
NOTES:

2. CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62J30. CONTRACT 62J30 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62P72 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS. SIGNAL CONTROLLER QUANTITY IS PROVIDED AT THIS LOCATION BUT INSTALLATION WILL DEPEND ON CONTRACT 62J30 OTHERWISE THIS CONTROLLER SHALL BE DELIVERED TO IDOT SPARE PARTS IF NOT USED. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 1975
IDOT CENTRACS
FORMER ECON 158**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\182-IL Rte 19 at Wise Rd-INT.dgn

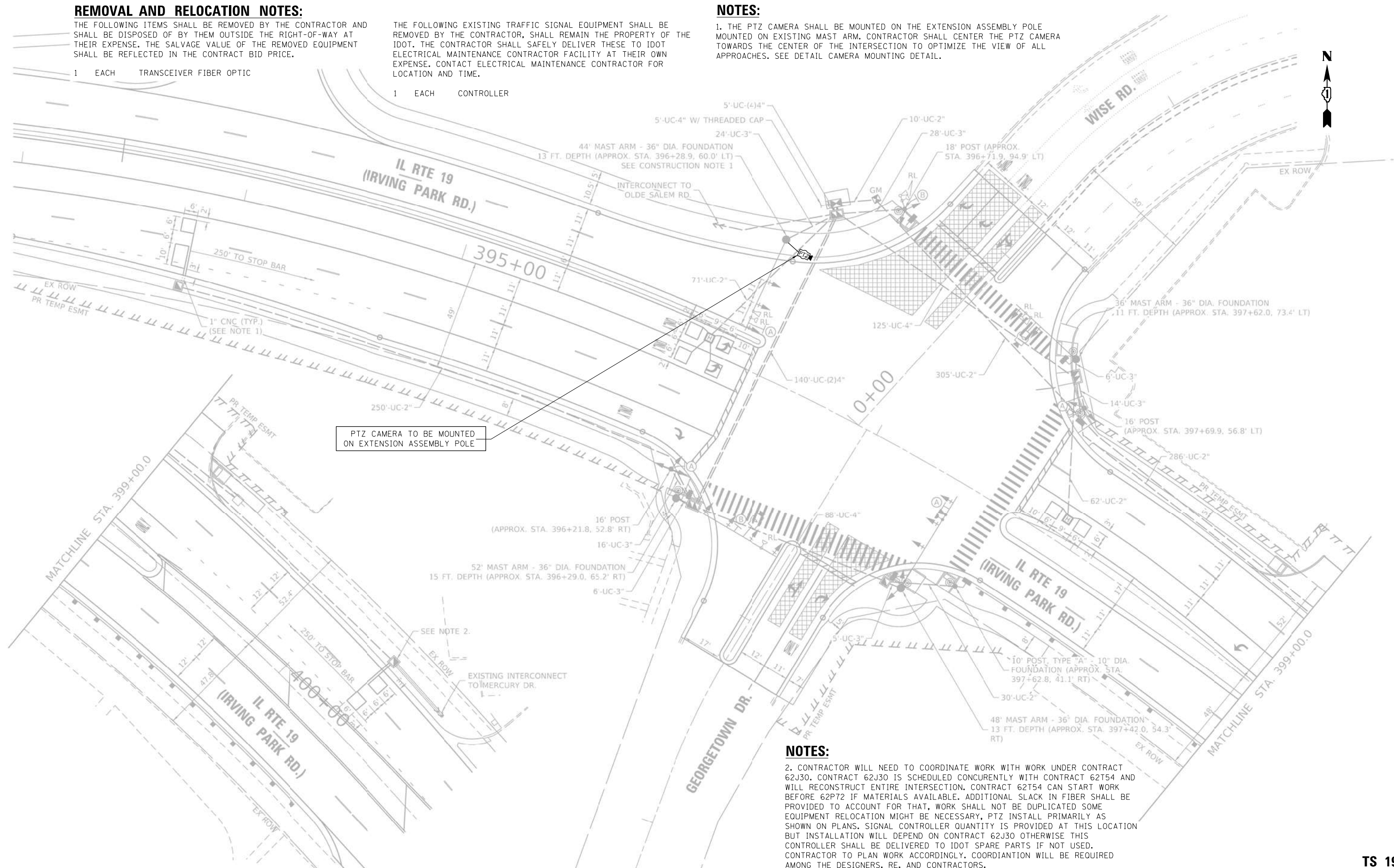


USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / 1" =	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE\$		

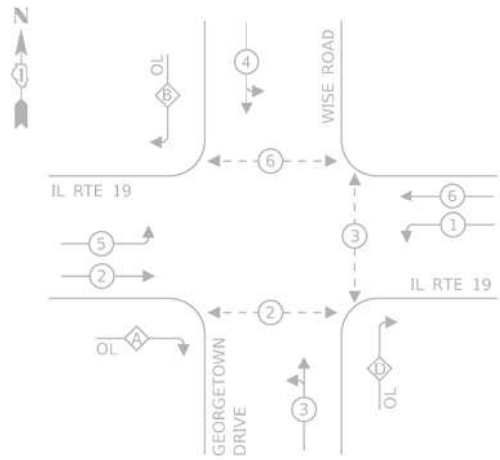
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION #76			
IL RTE 19 (IRVING PARK RD) AT WISE RD INTERSECTION PLAN			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

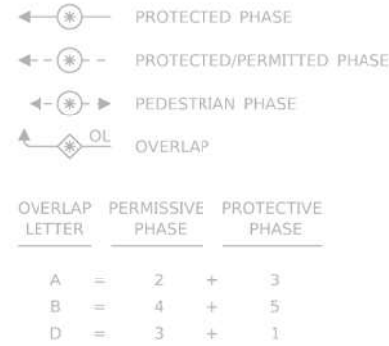
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	199
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62T54	



PROPOSED CONTROLLER SEQUENCE



LEGEND:



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	241
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

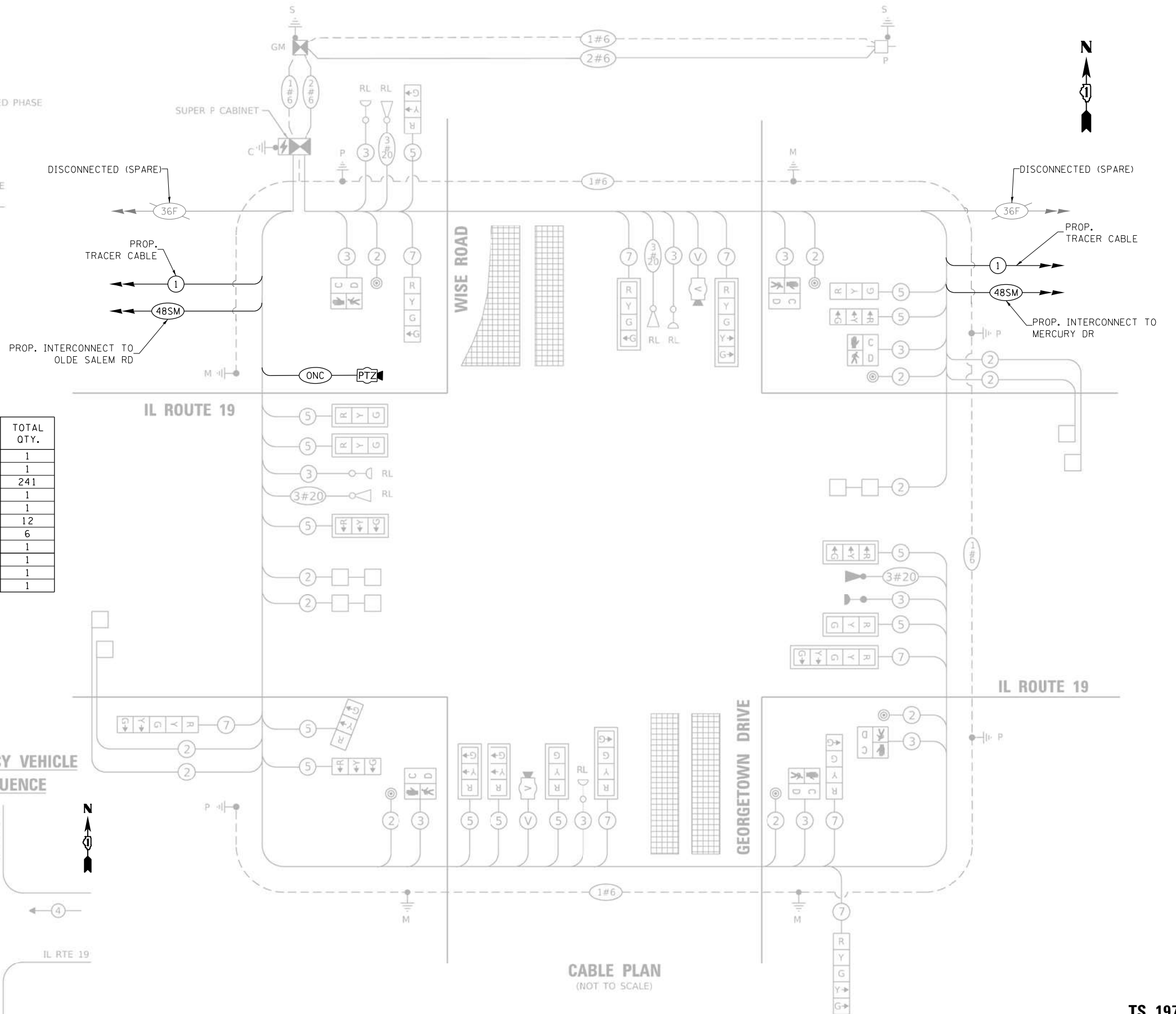
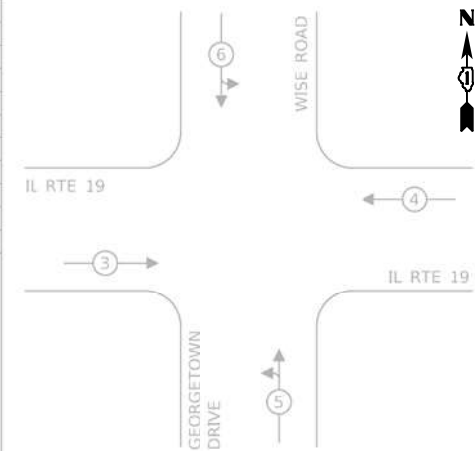
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	21	11	50	115.5
(YELLOW)	21	20	5	21.0
(GREEN)	25	12	45	135.0
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	2	150	100	300.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	165	50	-
TOTAL =				824.5

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

ENERGY SUPPLY: CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMMONWEALTH EDISON
TOWER ACCOUNT NUMBER: 17470-91006

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #76
IL RTE 19 (IRVING PARK RD) AT WISE RD CABLE PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	200
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 1975
IDOT CENTRACS
FORMER ECON 158

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD_Sheets\183_IL_Rte_19_at_Wise_Rd_CD.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
505 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60659 TEL: (773) 774-5900

DESIGNED - EA	REVISION - 12-2-2022
DRAWN - EA, AV	REVISION -
CHECKED - MS	REVISION -
DATE - 10/31/2022	REVISION -

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.