

LEGEND:

◆ * PROTECTED PHASE

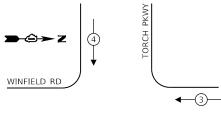
← -(*)- - PROTECTED/PERMITTED PHASE

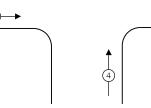
√-(*)- ► PEDESTRIAN PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

PERMISSIVE PROTECTED LETTER __PHASE__

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL

ELECTRICAL SERVICE REQUIREMENTS

10

10

16

WATTAGE

12

10

100

25

150

120

250

OPERATION

50

45

10

100

100

100

50

50

TOTAL =

WATTAGE

82.5

15.0

81.0

20.0

160.0

100.0

25.0

250.0

508.5

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

CONTROLLER EACH

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER SOCKET

PUSHBUTTON "C" SHALL PLACE CALLS IN PHASES 6 & 8

PUSHBUTTON "A" SHALL PLACE CALLS IN PHASES 2 & 4

THE TRAFFIC SIGNAL CONTROL EQUIPMENT

FOR THIS PROJECT SHALL BE NTCIP

(LATEST VERSION).

-(2#10)-

ENERGY COSTS TO:

SIGNAL

UPS

PED. SIGNAL

CONTROLLER

VIDEO SYSTEM

FLASHER

LUMINAIRE

PTZ CAMERA

BLANK-OUT SIGN

STREET NAME SIGN

DUPAGE COUNTY D.O.T.

(RED)

(YELLOW)

(GREEN)

PERMISSIVE ARROW

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

WINFIELD RD

EX. INTERSECTION -

TRACER CABLE

AND SAMPLING (SYSTEM)

EX. INTERCONNECT CABLE (TO REMAIN)

DETECTORS

PROP. INTERCONNECT

TO FERRY RD

	,			,	MERGENCY VEHICLE	F.	
l	PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES WINFIELD RD AND TORCH PKWY						
	VVIIN	FIELD KL	AND IQ	RUH PRW	<u>' T</u>	_	
SCALE: NTS	SHEET 4	OF 5	SHEETS	STA.	TO STA.		

(1#6)-

CABLE PLAN

TORCH PKWY

SECTION COUNTY VAR. 17-DCCSS-01-TL DUPAGE 277 101 CONTRACT NO. 61F05

DUDOT

EX. INTERSECTION

AND SAMPLING

(SYSTEM)

- TRACER CABLE

PROP. INTERCONNECT

TO WARRENVILLE RD

EX. INTERCONNECT TO WARRENVILLE RD

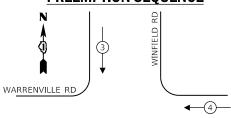
w:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO3 Centracs Expansion 2\CADD_Sheets\0504-sht-ts-cable.dgn

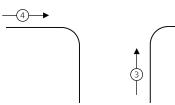
93 TS SHT NO.

EXISTING CONTROLLER SEQUENCE WARRENVILLE RD

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

16





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	l LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	10	20	100	200.0
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	-	250	50	-
PTZ CAMERA	-	75	100	-
			TOTAL =	483.8

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

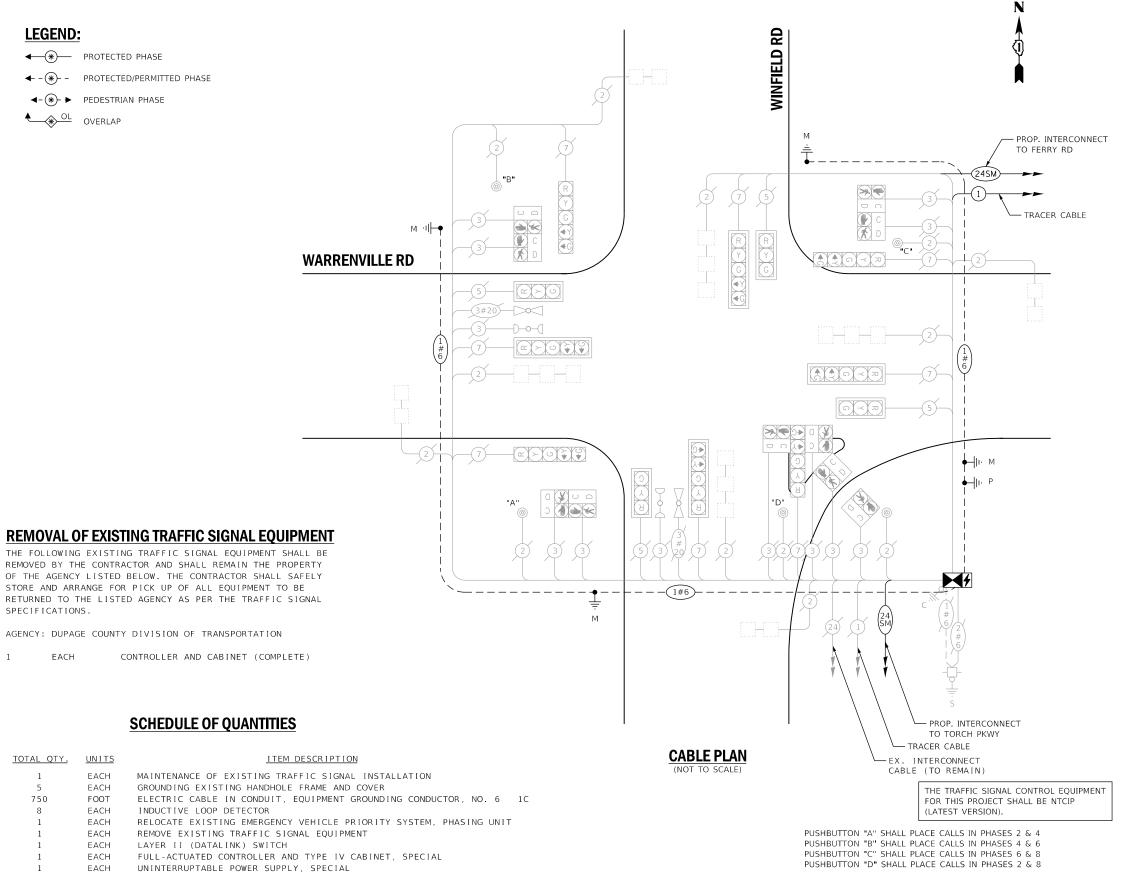
PHONE: (630)-424-5704

LEGEND:

◆PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE



ENERGY COSTS TO:

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

COMPANY: COM-ED LOMBARD

ACCOUNT NUMBER



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

TOTAL QTY.

750

<u>UNITS</u>

EACH

EACH

FOOT

EACH

EACH

EACH

EACH

EACH

EACH

ELECTRIC METER SOCKET

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES WINFIELD RD AND WARRENVILLE RD

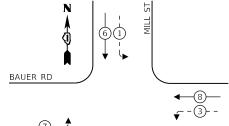
SECTION COUNTY VAR. 17-DCCSS-01-TL DUPAGE 277 102 CONTRACT NO. 61F05

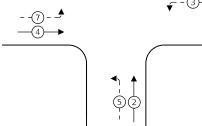
DUDOT

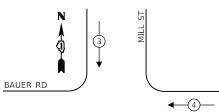
FILE NAME = pw:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\W03 Centracs Expansion 2\CADD_Sheets\0506-sht-ts-cable.dgn
Default

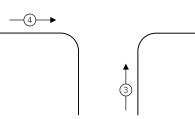
94 TS SHT NO.











TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		I NO. OF	LED	70	IOIAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	12	11	50	66.0
	(YELLOW)	12	20	5	12.0
	(GREEN)	12	12	45	64.8
PERMISSIV	'E ARROW	16	10	10	16.0
PED. SIGN	AL	8	20	100	160.0
CONTROLL	.ER	1	100	100	100.0
UPS		1	25	100	25.0
VIDEO SYS	STEM	-	150	100	-
BLANK-OU	T SIGN	-	25	5	-
FLASHER		-	·=·	50	
STREET N	AME SIGN	-	120	50	-
LUMINAIRE		2	250	50	250.0
PTZ CAME	RA	-	75	100	
				TOTAL =	693.8

ENERGY COSTS TO:

95

TS SHT NO.

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

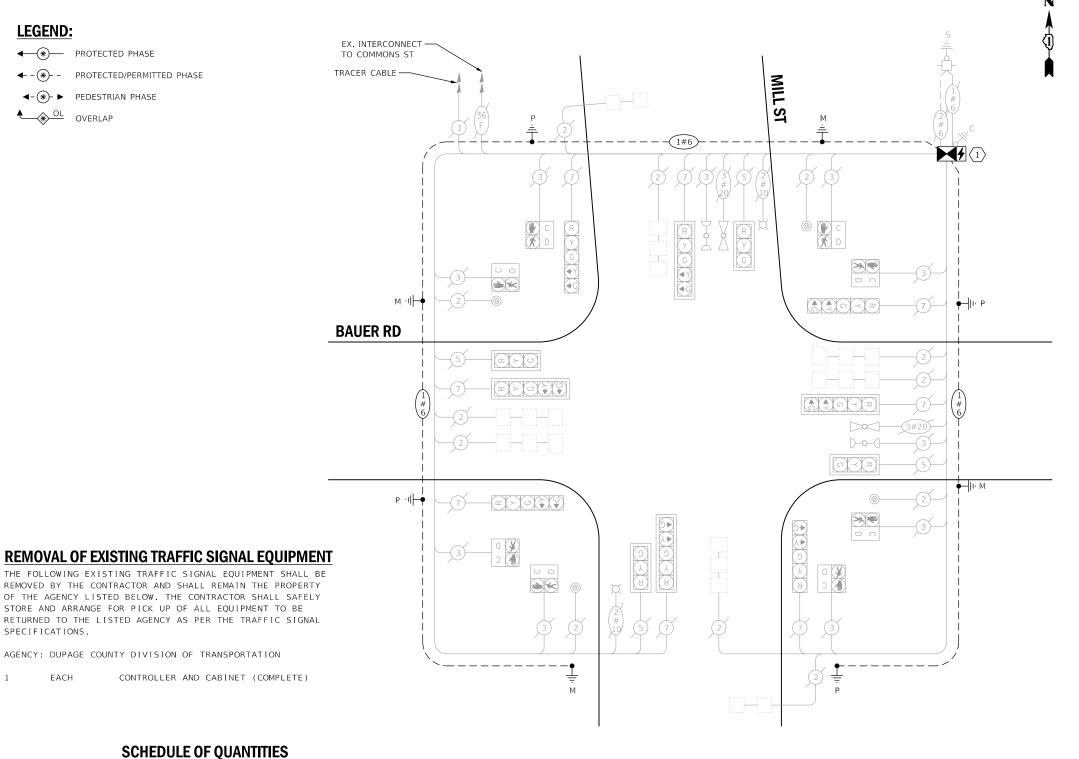
PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD ACCOUNT NUMBER:

LEGEND:

◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE



TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	FOOT	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	EACH	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
8	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	ELECTRIC METER SOCKET

CABLE PLAN

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

CONSTRUCTION NOTES:

THE CONTACTOR SHALL INSTALL A UPS SYSTEM ON LEFT SIDE OF CABINET OR AS DIRECTED BY THE ENGINEER.

DUPAGE 277 103

CONTRACT NO. 61F05

COUNTY

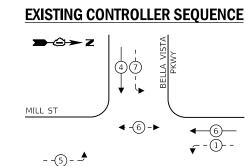


USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

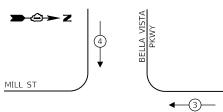
SPECIFICATIONS.

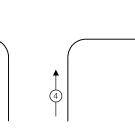
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL MILL ST AND BAUER RD

w:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO3 Centracs Expansion 2\CADD_Sheets\0600-sht-ts-cable.dgn



38





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	l LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW) 14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	/ 16	10	10	16.0
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	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
		-	TOTAL =	347.6

ENERGY COSTS TO:

96

TS SHT NO.

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

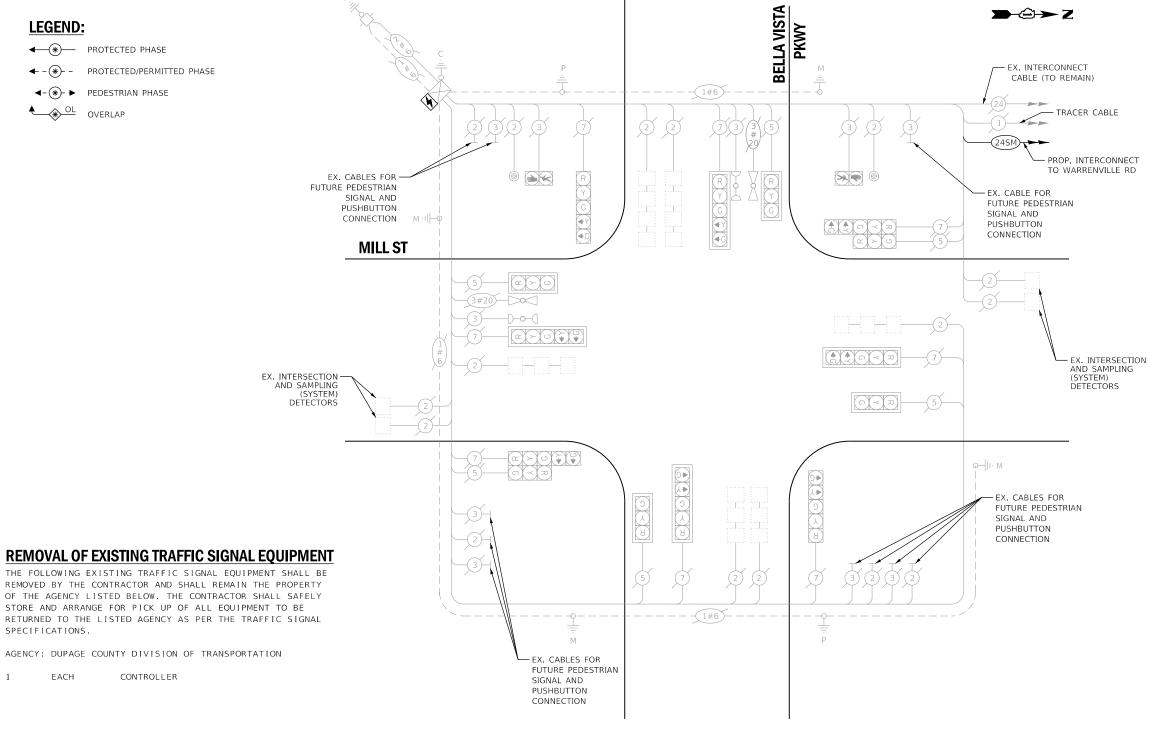
ACCOUNT NUMBER:

LEGEND:

◆ PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE



SCHEDULE OF QUANTITIES

CONTROLLER

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER SOCKET

CABLE PLAN

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

DUDOT



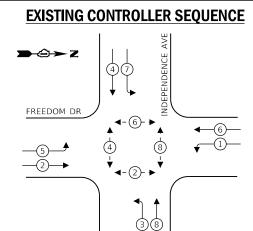
USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

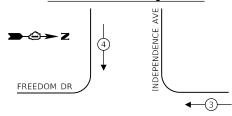
SPECIFICATIONS.

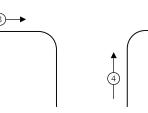
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL

COUNTY DUPAGE 277 104 MILL ST AND BELLA VISTA PKWY

2 OF 2 SHEETS STA. CONTRACT NO. 61F05







TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	12	11	50	66.0
	(YELLOW)	12	20	5	12.0
	(GREEN)	12	12	45	64.8
PERMISSI	VE ARROW	16	10	10	16.0
PED. SIGN	VAL	8	20	100	160.0
CONTROLLER		1	100	100	100.0
UPS		1	25	100	25.0
VIDEO SY	STEM	1	150	100	150.0
BLANK-OU	JT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET NAME SIGN		-	120	50	-
LUMINAIR	E	4	250	50	500.0
PTZ CAMI	ERA	-	75	100	-

ENERGY COSTS TO:

TS SHT NO. 97

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187

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

COMPANY: COM-ED LOMBARD

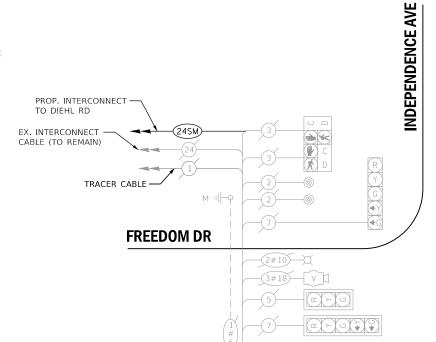
ACCOUNT NUMBER:

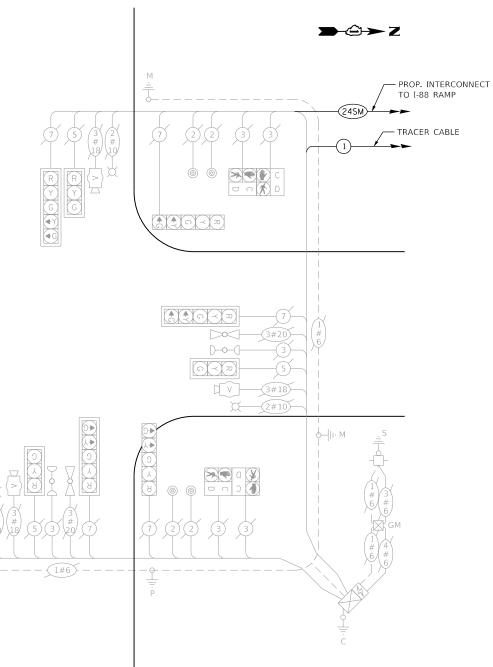
LEGEND:

◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE





CABLE PLAN

SCHEDULE OF QUANTITIES

TOTAL QTY. ITEM DESCRIPTION <u>UNITS</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION LAYER II (DATALINK) SWITCH EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL EACH

NAPERVILLE

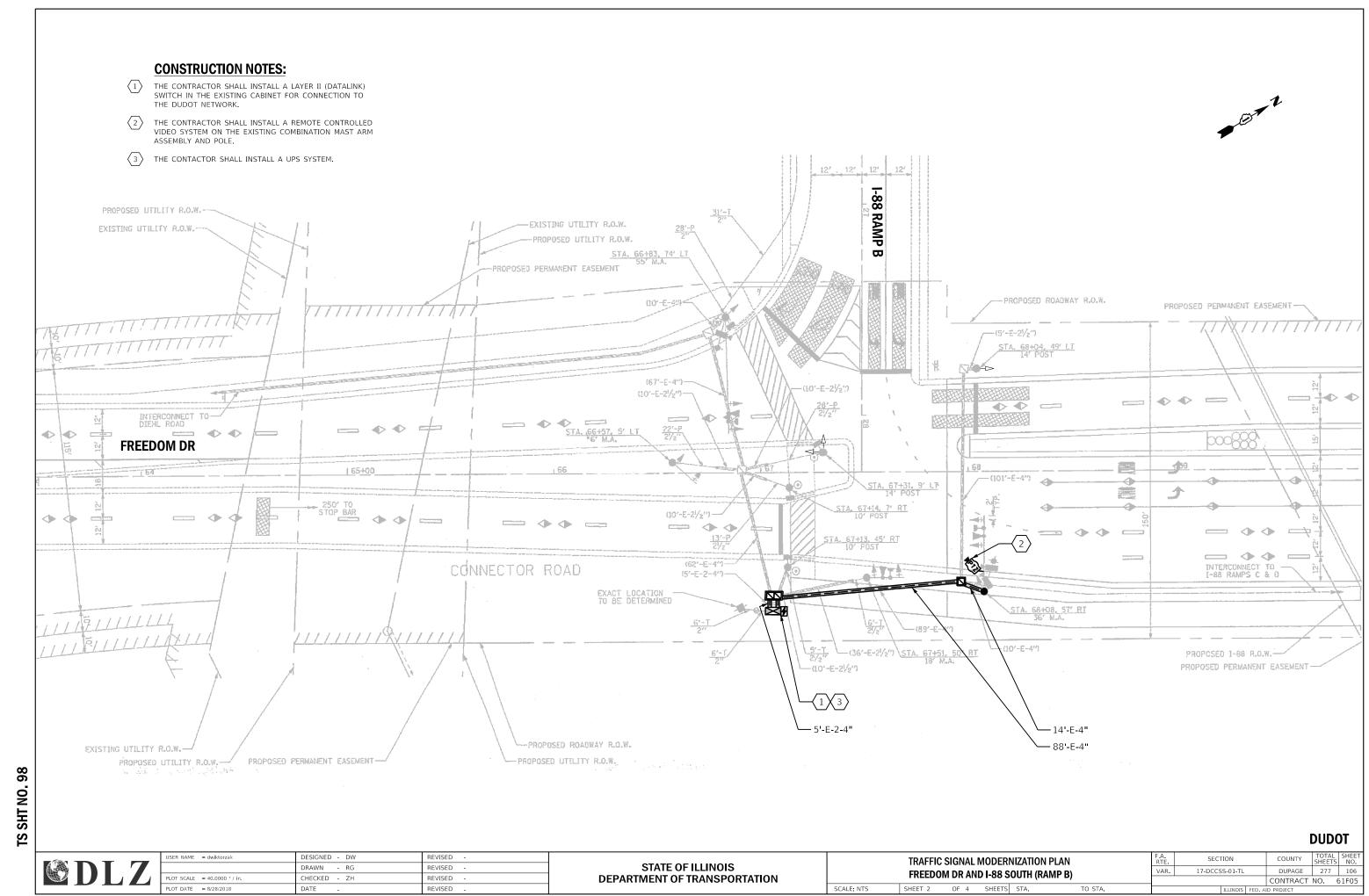


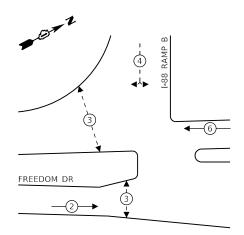
JSER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

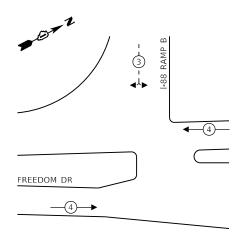
CABLE PLAN, PHASE DESIGNATION DIA	· · · · · · · · · · · · · · · · · · ·	F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
PREEMPTION SEQUENCE AND SO	•	VAR.	17-DCCSS-01-T	-	DUPAGE	277	105
FREEDOM DR AND INDE	PENDENCE AVE				CONTRACT	NO.	61F05
SCALE: NTS SHEET 1 OF 4 SHEETS	STA. TO STA.		ILLINOIS	FED. A	ID PROJECT		

TOTAL = 1093.8





EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	·=·	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250.0
PTZ CAMERA	1	75	100	75.0
			TOTAL =	809.7

ENERGY COSTS TO:

TS SHT NO. 99

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

ACCOUNT NUMBER

LEGEND:

◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

◄- *- > PEDESTRIAN PHASE

PROP. INTERCONNECT -TO INDEPENDENCE AVE TRACER CABLE NO. 16

5 ½ PAIR

EX. QUEUE DETECTORS -

I-88 RAMP B NO. 16 **FREEDOM DR** 5 ½ PAIR TRACER CABLE - EX. INTERCONNECT CABLE (TO REMAIN) - PROP. INTERCONNECT TO I-88 RAMPS C & D

CABLE PLAN

SCHEDULE OF QUANTITIES

<u>T</u>	OTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
	186	FOOT	OUTDOOR RATED NETWORK CABLE
	1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
	1	EACH	LAYER II (DATALINK) SWITCH
	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
	1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
	1	EACH	ELECTRIC METER SOCKET

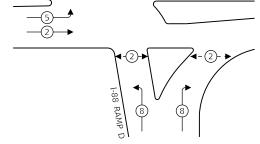
DUDOT



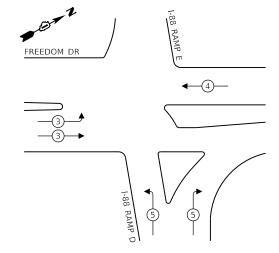
USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION COUNTY PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL DUPAGE 277 107 FREEDOM DR AND I-88 SOUTH (RAMP B)
SHEET 3 OF 4 SHEETS STA. CONTRACT NO. 61F05



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL						
ELECTRICAL SERVICE REQUIREMENTS						

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250.0
PTZ CAMERA	-	75	100	-
	-		TOTAL =	770.4

ENERGY COSTS TO:

TS SHT NO, 100

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: <u>MR. JOE STACHO</u>

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

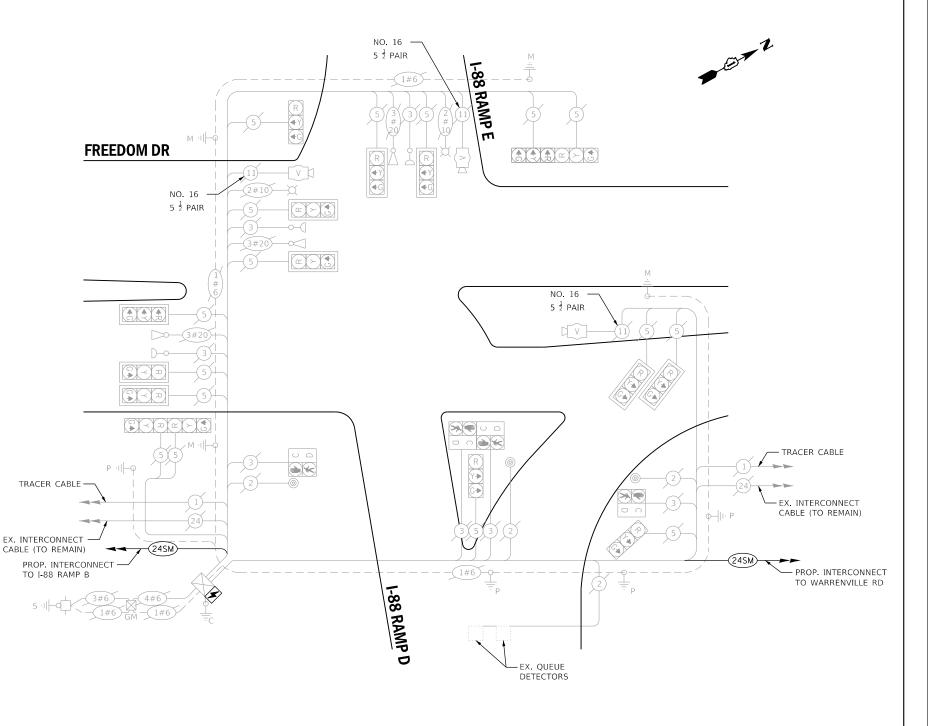
LEGEND:

◆ PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

◆- *- PEDESTRIAN PHASE

◆ OL OVERLA



SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER SOCKET

CABLE PLAN
(NOT TO SCALE)

DUDOT

DUPAGE 277 108



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

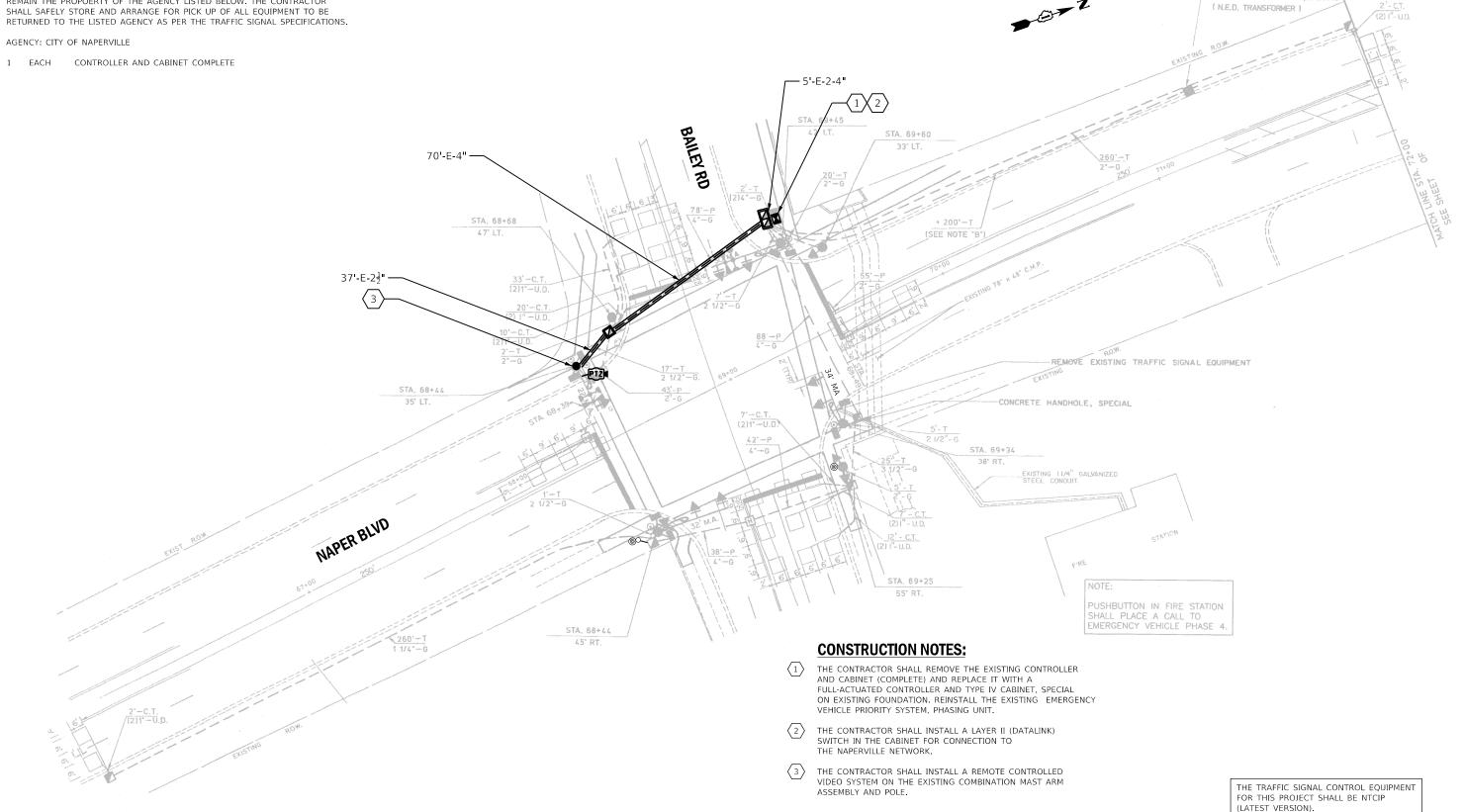
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
FREEDOM DR AND I-88 NORTH (RAMP E AND D)

THE NTS SHEET 4 OF 4 SHEETS STA. TO STA.

| ILLINOIS | ILLINOIS

E NAME = pw:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 61-sht-ts-cable.dgn

COUNTY



NAPERVILLE



TS SHT NO. 101

USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	
	DRAWN - RG	REVISED -	
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -	
PLOT DATE = 8/28/2018	DATE -	REVISED -	

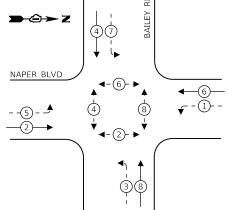
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODERNIZATION PLAN NAPER BLVD AND BAILEY RD SHEET 1 OF 33 SHEETS STA. TO STA.

SCALE: NTS

SECTION COUNTY VAR. 17-DCCSS-01-TL DUPAGE 277 109 CONTRACT NO. 61F05

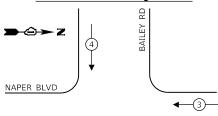
- SERVICE INSTALLATION , SPECIAL

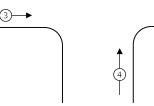


LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	l LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
PTZ CAMERA	1	75	100	75.0
			TOTAL =	509.7

ENERGY COSTS TO:

CITY OF NAPERVILLE

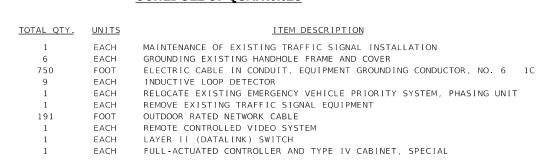
400 S. EAGLE ST.

NAPERVILLE, IL 60540 ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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



SCHEDULE OF QUANTITIES



NAPERVILLE



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

NAPER BLVD

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

CABLE PLAN (NOT TO SCALE)

BAILEY RD

D-0-(1

->0<

-(1#6)

SECTION VAR. 17-DCCSS-01-TL DUPAGE 277 110 CONTRACT NO. 61F05

STATION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP

(LATEST VERSION).

>2→2

- EX. INTERCONNECT CABLE (TO REMAIN)

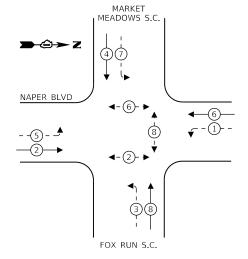
TRACER CABLE

- PROP. INTERCONNECT TO 75TH ST

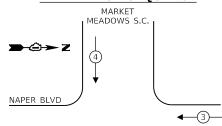
24SM)-

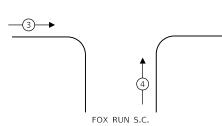
w:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 56-sht-ts-cable.dgn

TS SHT NO. 102



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	15	11	50	82.5
	(YELLOW)	15	20	5	15.0
	(GREEN)	15	12	45	81.0
PERMISSI	VE ARROW	24	10	10	24.0
PED. SIG	NAL	6	20	100	120.0
CONTROL	LLER	1	100	100	100.0
UPS		1	25	100	25.0
VIDEO SY	rstem	-	150	100	-
BLANK-O	UT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET 1	NAME SIGN	-	120	50	-
LUMINAIF	RE	-	-	-	-
PTZ CAM	ERA	-	75	100	-

ENERGY COSTS TO:

TS SHT NO. 103

CITY OF NAPERVILLE

400 S. EAGLE ST. NAPERVILLE, IL 60540

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

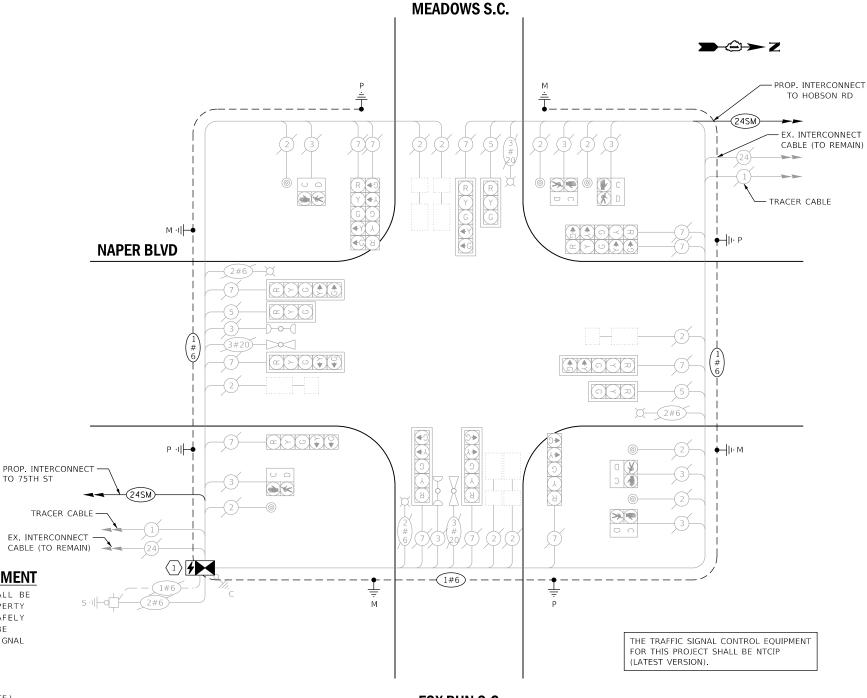
PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD ACCOUNT NUMBER

LEGEND:

◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE



MARKET

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: CITY OF NAPERVILLE

CONTROLLER AND CABINET (COMPLETE)

FOX RUN S.C.

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
6	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TO 75TH ST

CABLE PLAN (NOT TO SCALE)

CONSTRUCTION NOTES:

THE CONTACTOR SHALL INSTALL A UPS SYSTEM ON LEFT SIDE OF CABINET OR AS DIRECTED BY THE ENGINEER.

NAPERVILLE



JSER NAME = dwiktorzak DESIGNED - DW REVISED DRAWN - RG REVISED CHECKED - ZH REVISED REVISED PLOT DATE = 8/28/2018 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES VAR. 17-DCCSS-01-TL NAPER BLVD AT MARKET MEADOW/FOX RUN
SHEET 3 OF 33 SHEETS STA. T

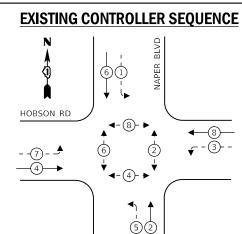
COUNTY DUPAGE 277 111 CONTRACT NO. 61F05

SECTION

TOTAL = 447.5

TS SHT NO. 104

JSER NAME = dwiktorzak DESIGNED - DW REVISED TRAFFIC SIGNAL MODERNIZATION PLAN SECTION COUNTY STATE OF ILLINOIS DRAWN - RG REVISED VAR. 17-DCCSS-01-TL DUPAGE 277 112 NAPER BLVD AND HOBSON RD CHECKED - ZH REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 61F05 SCALE: NTS SHEET 4 OF 33 SHEETS STA. TO STA. REVISED PLOT DATE = 8/28/2018 DATE



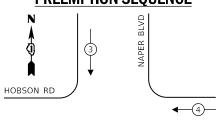
LEGEND:

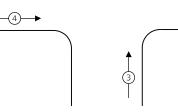
◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

◆- *- PEDESTRIAN PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	16	11	50	88.0
(YEI	LOW)	16	20	5	16.0
(GI	REEN)	16	12	45	86.4
PERMISSIVE A	RROW	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	4	-	150	100	-
BLANK-OUT SI	GN	-	25	5	-
FLASHER		-	-	50	-
STREET NAME	SIGN	-	120	50	-
LUMINAIRE		2	250	50	250.0
PTZ CAMERA		1	75	100	75.0

ENERGY COSTS TO:

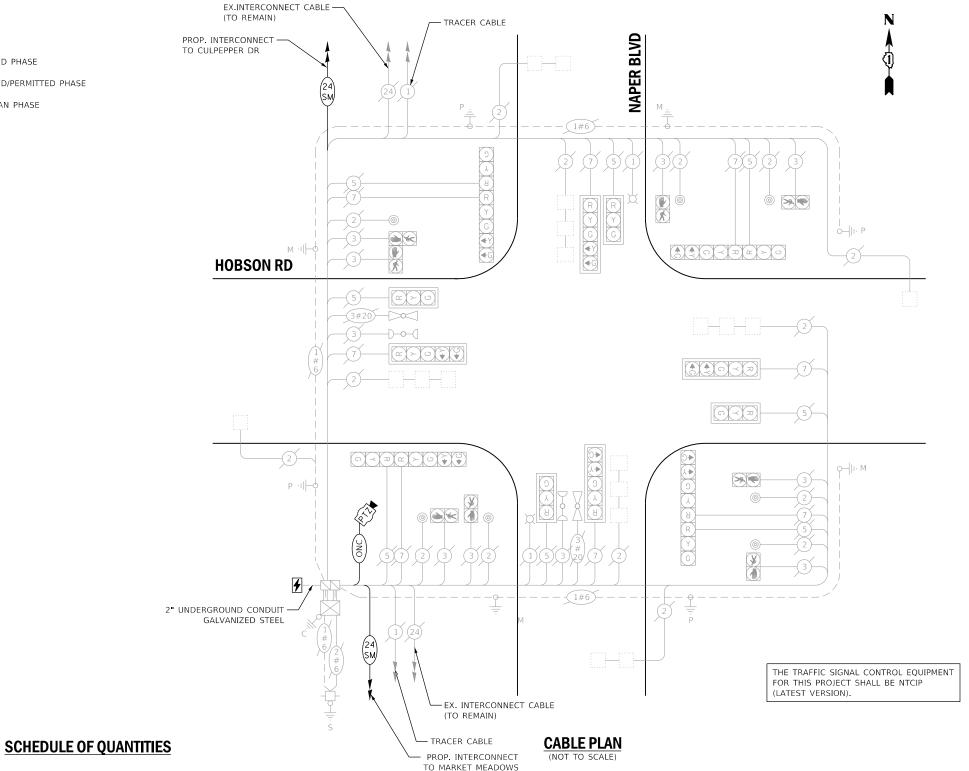
TS SHT NO, 105

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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



TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	DRILL EXISTING HANDHOLE
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
113.5	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER SOCKET

DUDOT



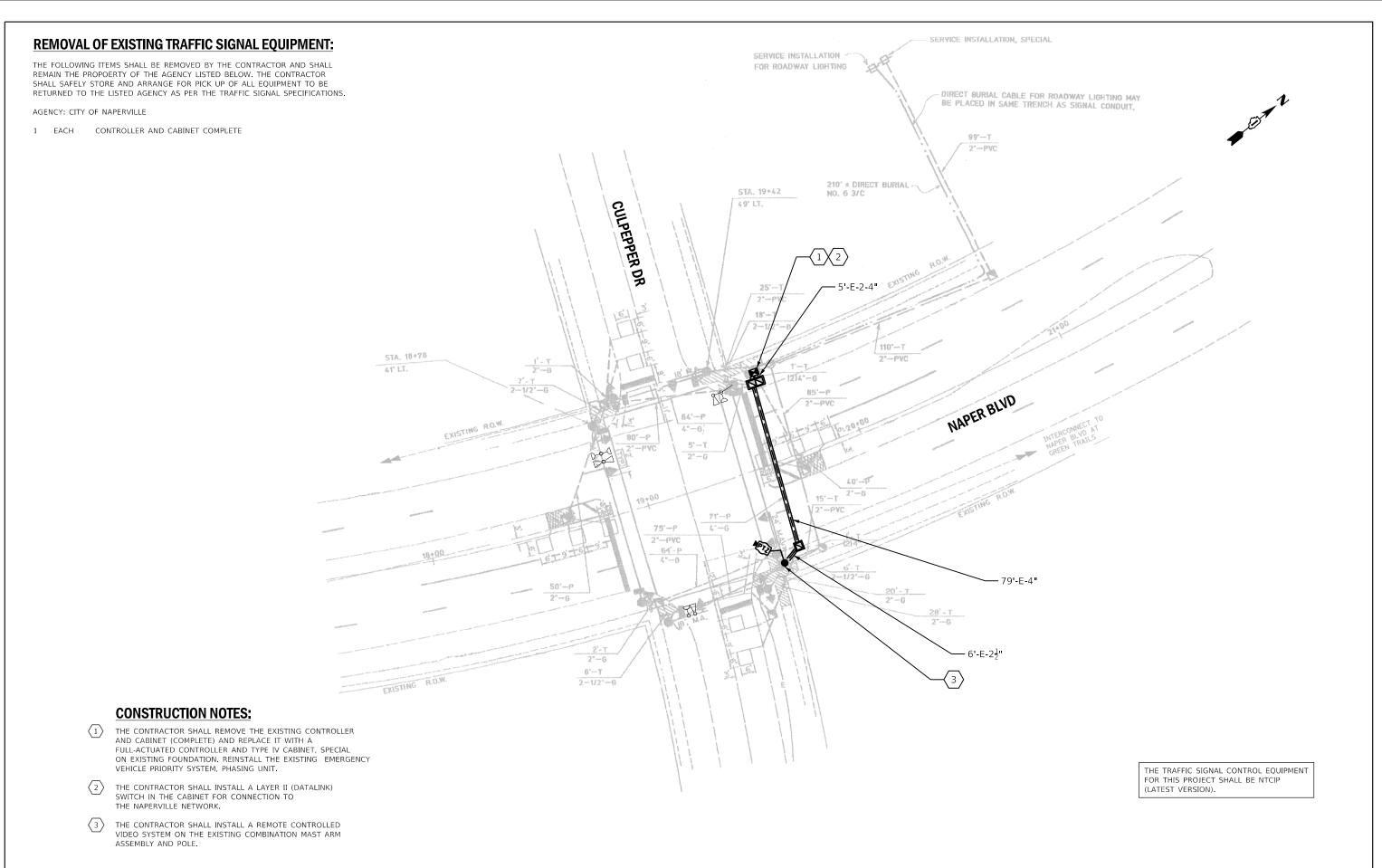
USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: NTS

	,				,	EMERGENCY VEHICLE	F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES					VAR.	17-DCCSS-01-TL		DUPAGE	277	113		
	NA	<u>PER B</u>	ELVE	AND H	<u>obson</u>	RD				CONTRACT	NO.	61F05
LE: NTS	SHEET 5	OF	33	SHEETS	STA.	TO STA.		ILLINOIS	EED, Al	D PROJECT		-

TOTAL = 816.4



	D	T,	7.

USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

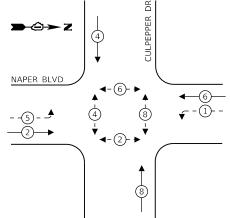
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS

TRAFFIC	SIGNALI	MODERI	VIZATION	PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NADI	ER BLVD A	AND CIII	DEDDED	DB	VAR.	17-DCCSS-01-TL	DUPAGE	277	114
11/71 6		1110 001					CONTRACT	NO.	51F05
SHEET 6	OF 33	SHEETS	STA.	TO STA.		ILLINOIS FED A	ID PROJECT		

NAPERVILLE

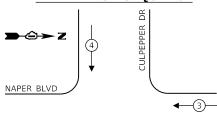


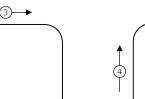


LEGEND:

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

PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
PTZ CAMERA	1	75	100	75.0

ENERGY COSTS TO:

CITY OF NAPERVILLE

400 S. EAGLE ST. NAPERVILLE, IL 60540

TS SHT NO. 107

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

JSER NAME = dwiktorzak DESIGNED - DW REVISED DRAWN - RG REVISED CHECKED - ZH REVISED REVISED PLOT DATE = 8/28/2018 DATE

TOTAL QTY.

750

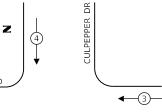
169

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES NAPER BLVD AND CULPEPPER DR

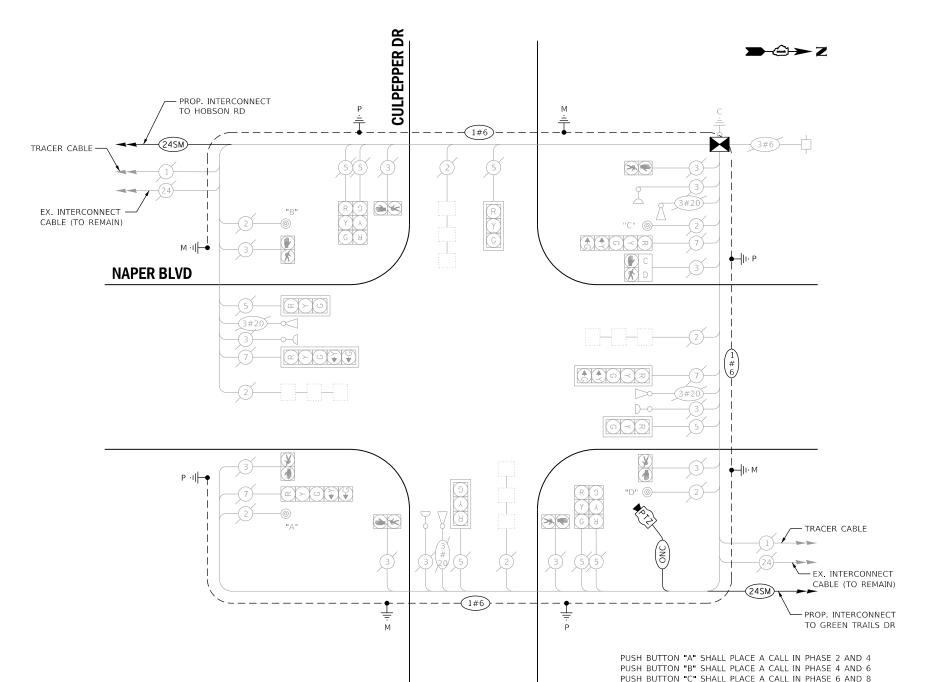
SECTION 17-DCCSS-01-TL DUPAGE 277 115 CONTRACT NO. 61F05

EXISTING EMERGENCY VEHICLE





	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
PTZ CAMERA	1	75	100	75.0



CABLE PLAN (NOT TO SCALE)

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

VAR.

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

SCHEDULE OF QUANTITIES

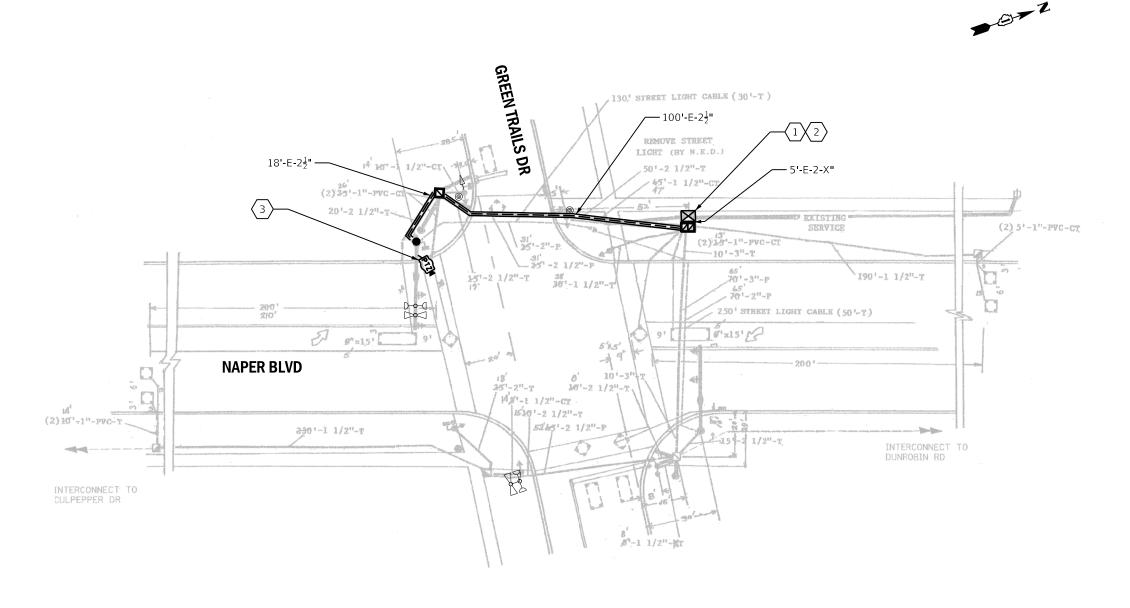
<u>UNITS</u>	ITEM DESCRIPTION
EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10
EACH	INDUCTIVE LOOP DETECTOR
EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
FOOT	OUTDOOR RATED NETWORK CABLE
EACH	REMOTE CONTROLLED VIDEO SYSTEM
EACH	LAYER II (DATALINK) SWITCH
EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL

NAPERVILLE

TOTAL = 485.8

AGENCY: CITY OF NAPERVILLE

1 EACH CONTROLLER



SCALE: NTS

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE NAPERVILLE NETWORK.
- THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE
- THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING COMBINATION MAST ARM ASSEMBLY AND POLE.

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

NAPERVILLE



TS SHT NO, 108

USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
NAPER BLVD AND GREEN TRAILS DR

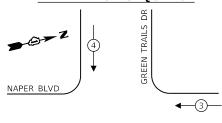
SHEET 8 OF 33 SHEETS STA. TO STA.

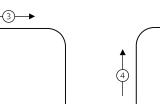
F.A. RTE. SECTION COUNTY SHEETS NO.

VAR. 17-DCCSS-01-TL DUPAGE 277 116

CONTRACT NO. 61F05

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	12	11	50	66.0
	(YELLOW)	12	20	5	12.0
	(GREEN)	12	12	45	64.8
PERMISSI	IVE ARROW	12	10	10	12.0
PED. SIG	NAL	4	20	100	80.0
CONTROLLER		1	100	100	100.0
UPS		-	25	100	-
VIDEO S'	YSTEM	-	150	100	-
BLANK-O	UT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET I	NAME SIGN	-	120	50	-
LUMINAIF	RE	-	-	-	-
PTZ CAM	IERA	1	75	100	75.0

ENERGY COSTS TO:

CITY OF NAPERVILLE

400 S. EAGLE ST. NAPERVILLE, IL 60540

TS SHT NO. 109

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

LEGEND:

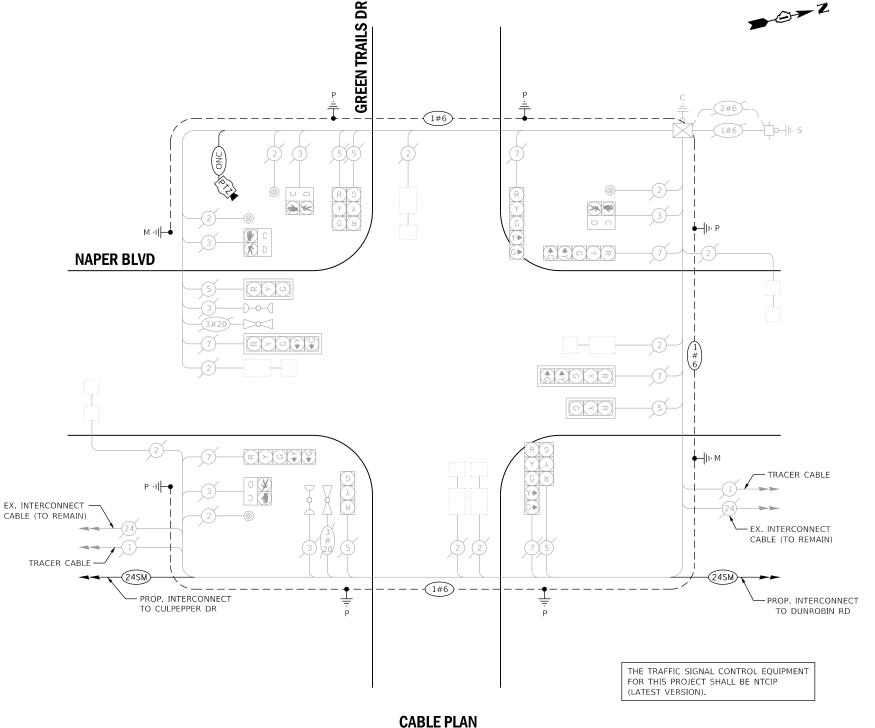
◆ * PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSIVE		PROTECTE
LETTER		PHASE		PHASE
D	_	8	+	1



(NOT TO SCALE)

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
202	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

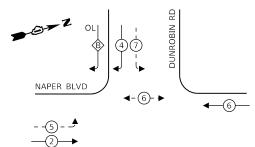
NAPERVILLE



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL DUPAGE 277 117 NAPER BLVD AND GREEN TRAILS DR EET 9 OF 33 SHEETS STA. CONTRACT NO. 61F05

TOTAL = 409.8



LEGEND:

◆ PROTECTED PHASE

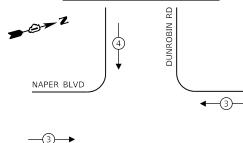
← - (*)- - PROTECTED/PERMITTED PHASE

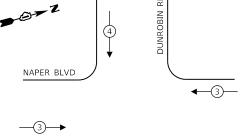
√-(*)- ► PEDESTRIAN PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP I FTTER		PERMISSIVE PHASE		PROTECTED PHASE
LETTER		PRASE		PHASE
В	=	4	+	5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: CITY OF NAPERVILLE

-0-2 PROP. INTERCONNECT TO MAPLE AVE -(24SM)-**DUNROBIN RD** - TRACER CABLE **NAPER BLVD** 2#6 EX. INTERCONNECT CABLE (TO REMAIN) TRACER CABLE -PROP. INTERCONNECT TO GREEN TRAILS DR

CABLE PLAN

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

TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	=	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250.0
PTZ CAMERA	-	75	100	-
			TOTAL =	540.8

ENERGY COSTS TO:

CITY OF NAPERVILLE

400 S. EAGLE ST NAPERVILLE, IL 60540

TS SHT NO. 110

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

EACH CONTROLLER

SCHEDULE OF QUANTITIES

TOTAL OTY. UNITS ITEM DESCRIPTION	
TOTAL QTT. DIVITES	
1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	
3 EACH GROUNDING EXISTING HANDHOLE FRAME AND COVER	
750 FOOT ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6	1 C
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	
1 EACH LAYER II (DATALINK) SWITCH	
1 EACH FULL-ACTUATED CONTROLLER IN EXISTING CABINET	
1 EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL	

NAPERVILLE

118



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

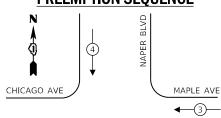
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

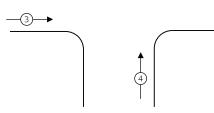
SCALE: NTS

			IVALL	-11 A 1 F
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHIC	LE F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES	VAR.	17-DCCSS-01-TL	DUPAGE	277
NAPER BLVD AND DUNROBIN RD			CONTRACT	NO.
LE. NITC CHIEFT 10 OF 22 CHEFTE CTA TO CTA		11 1 11 10 15	EED LID DOOLEGE	

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

38





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
			TOTAL =	418.8

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

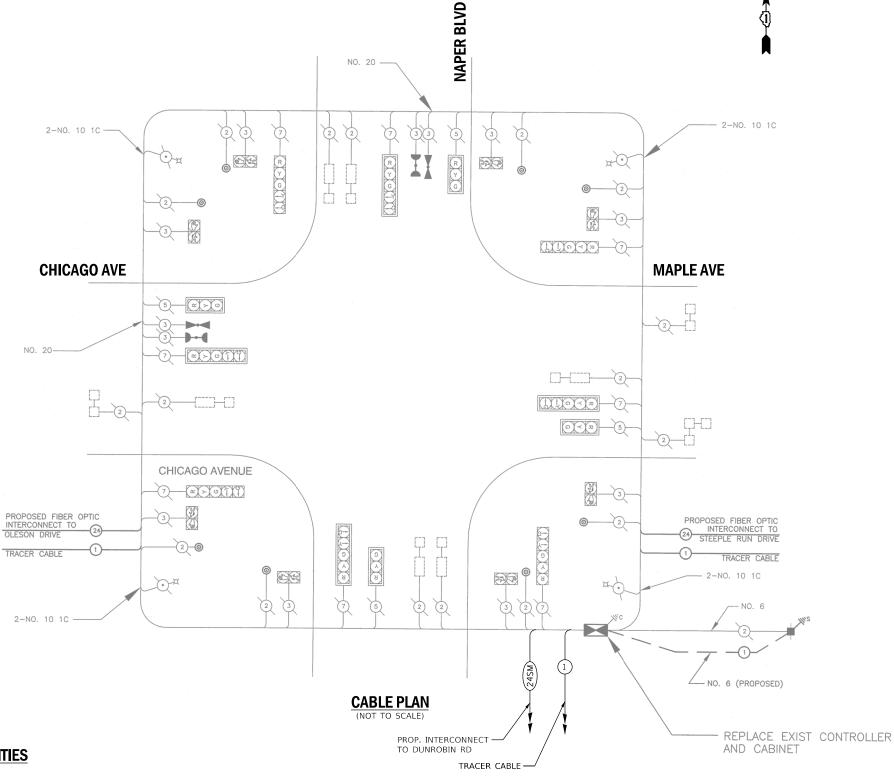
LEGEND:

◆ * PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

* OL OVERLA



SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	<u>ITEM DESCRIPTION</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER SOCKET

NAPERVILLE



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
NAPER BLVD AND MAPLE AVE/CHICAGO AVE

SHEET 11 OF 33 SHEET'S TA.

TO STA.

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

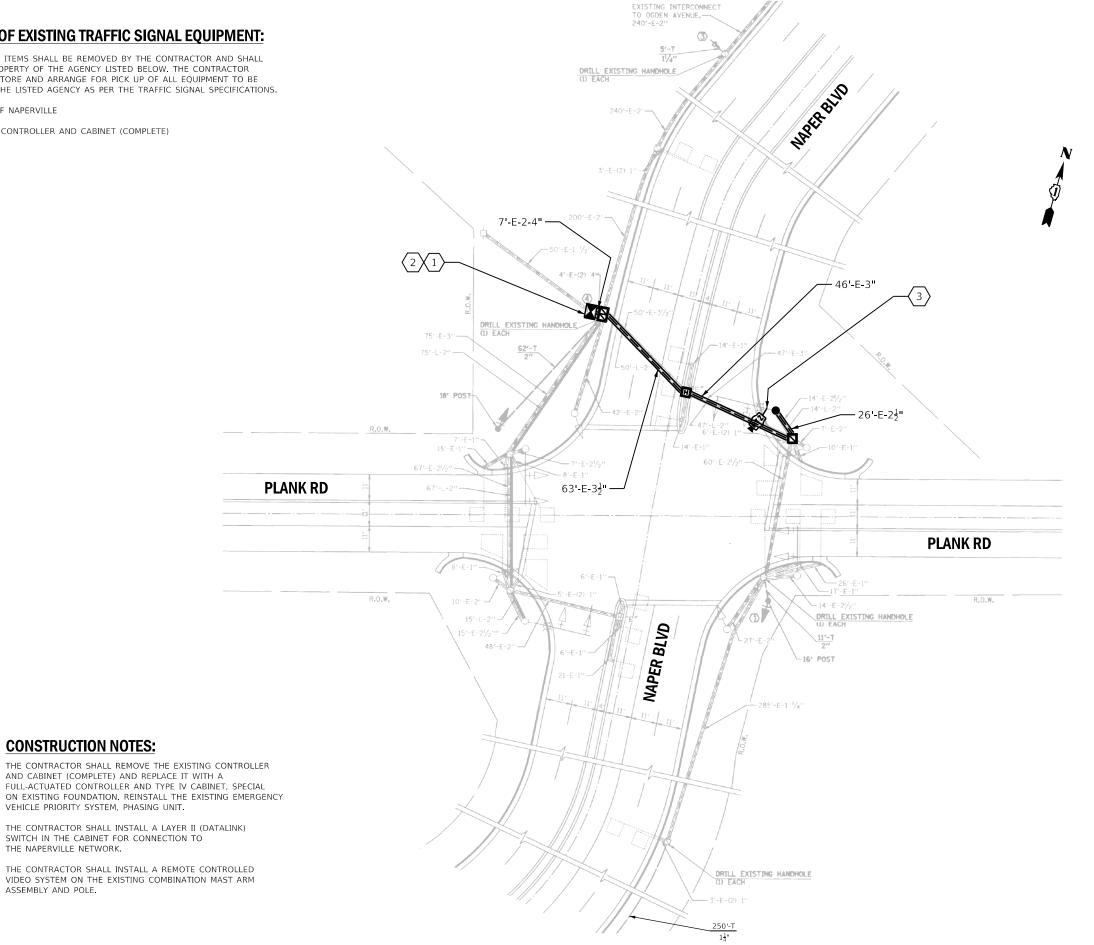
VAR. 17-DCCSS-01-TL
DUPAGE 277 119
CONTRACT NO. 61F05



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

AGENCY: CITY OF NAPERVILLE

1 EACH CONTROLLER AND CABINET (COMPLETE)



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

NAPERVILLE



JSER NAME = dwiktorzak DESIGNED - DW REVISED DRAWN - RG REVISED CHECKED - ZH REVISED PLOT DATE = 8/28/2018 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODERNIZATION PLAN NAPER BLVD AND PLANK RD SHEET 12 OF 33 SHEETS STA. TO STA.

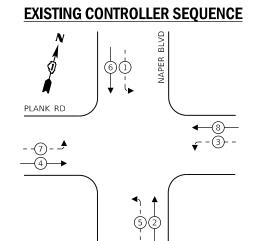
SCALE: NTS

SECTION COUNTY DUPAGE 277 120 VAR. 17-DCCSS-01-TL CONTRACT NO. 61F05

CONSTRUCTION NOTES:

THE NAPERVILLE NETWORK.

ASSEMBLY AND POLE.



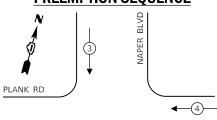
LEGEND:

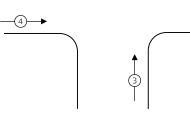
◆ * PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

◄- *- > PEDESTRIAN PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	16	11	50	88.0
()	(ELLOW)	14	20	5	14.0
((GREEN)	14	12	45	75.6
PERMISSIVE	ARROW	16	10	10	16.0
PED. SIGNA	L	-	20	100	-
CONTROLLE	R	1	100	100	100.0
UPS		-	25	100	-
VIDEO SYSTEM		-	150	100	-
BLANK-OUT SIGN		-	25	5	-
FLASHER		2	-	50	-
STREET NAME SIGN		-	120	50	-
LUMINAIRE		2	250	50	250.0
PTZ CAMER	Α	1	75	100	75.0

ENERGY COSTS TO:

CITY OF NAPERVILLE

400 S. EAGLE ST NAPERVILLE, IL 60540

TS SHT NO. 113

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

ACCOUNT NUMBER: JSER NAME = dwiktorzak

SCHEDULE OF QUANTITIES

TOTAL QTY. <u>UNITS</u> ITEM DESCRIPTION MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION GROUNDING EXISTING HANDHOLE FRAME AND COVER EACH ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C 750 FOOT EACH INDUCTIVE LOOP DETECTOR RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 227.5 FOOT OUTDOOR RATED NETWORK CABLE EACH REMOTE CONTROLLED VIDEO SYSTEM EACH LAYER II (DATALINK) SWITCH EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL

(2#8) **NAPER BLVD PLANK RD ∳**-|I⊢M -(~)(~)(~)(~)(~) #6)—X - EX. FLASHER CONTROLLER

- EX. FLASHER

CONTROLLER

CABLE PLAN

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

NAPERVILLE



DESIGNED - DW REVISED DRAWN - RG REVISED CHECKED - ZH REVISED PLOT DATE = 8/28/2018 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROP. INTERCONNECT TO OGDEN AVE EX. INTERCONNECT

CABLE (TO REMAIN)

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES PLANK RD AND NAPER BLVD
SHEET 13 OF 33 SHEETS STA.

SECTION 17-DCCSS-01-TL DUPAGE 277 121 CONTRACT NO. 61F05

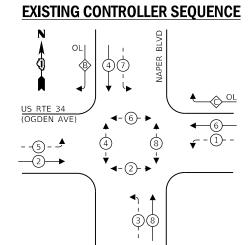
TOTAL = 618.6

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN US RTE 34 (OGDEN AVE) AND NAPER BLVD SHEET 14 OF 33 SHEETS STA.

17-DCCSS-01-TL CONTRACT NO. 61F05



LEGEND:

◆ * PROTECTED PHASE

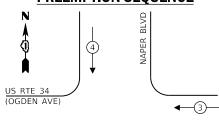
← - (*)- - PROTECTED/PERMITTED PHASE

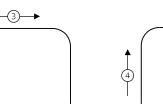
√-(*)- ► PEDESTRIAN PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSIVE		PROTECTE
LETTER		PHASE		PHASE
В	=	4	+	5
C	=	6	+	7

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

SIGNAL (RED) 14 11 50 77 (YELLOW) 14 20 5 14 (GREEN) 14 12 45 75 PERMISSIVE ARROW 24 10 10 24 PED. SIGNAL 8 20 100 160 CONTROLLER 1 100 100 100 UPS 1 25 100 25 VIDEO SYSTEM - 150 100 - BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - - -		NO. OF	l LED	%	TOTAL
(YELLOW) 14 20 5 14 (GREEN) 14 12 45 75 PERMISSIVE ARROW 24 10 10 24 PED. SIGNAL 8 20 100 160 CONTROLLER 1 100 100 100 UPS 1 25 100 25 VIDEO SYSTEM - 150 100 - BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - - -	TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
(GREEN) 14 12 45 75 PERMISSIVE ARROW 24 10 10 24 PED. SIGNAL 8 20 100 160 CONTROLLER 1 100 100 100 UPS 1 25 100 25 VIDEO SYSTEM - 150 100 - BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - - -	SIGNAL (RED)	14	11	50	77.0
PERMISSIVE ARROW 24 10 10 24 PED. SIGNAL 8 20 100 160 CONTROLLER 1 100 100 100 UPS 1 25 100 25 VIDEO SYSTEM - 150 100 - BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - - -	(YELLOW)	14	20	5	14.0
PED. SIGNAL 8 20 100 160 CONTROLLER 1 100 100 100 UPS 1 25 100 25 VIDEO SYSTEM - 150 100 - BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - - -	(GREEN)	14	12	45	75.6
CONTROLLER 1 100 100 100 UPS 1 25 100 25 VIDEO SYSTEM - 150 100 - BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - -	PERMISSIVE ARROW	24	10	10	24.0
UPS 1 25 100 25 VIDEO SYSTEM - 150 100 - BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - - -	PED. SIGNAL	8	20	100	160.0
VIDEO SYSTEM - 150 100 - BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - -	CONTROLLER	1	100	100	100.0
BLANK-OUT SIGN - 25 5 - FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - -	UPS	1	25	100	25.0
FLASHER - - 50 - STREET NAME SIGN - 120 50 - LUMINAIRE - - - - -	VIDEO SYSTEM	-	150	100	-
STREET NAME SIGN - 120 50 - LUMINAIRE	BLANK-OUT SIGN	-	25	5	-
LUMINAIRE	FLASHER	-	=	50	=
	STREET NAME SIGN	-	120	50	=
PTZ CAMERA 1 75 100 75	LUMINAIRE	-	-	•	-
	PTZ CAMERA	1	75	100	75.0
TOTAL = 550				TOTAL =	550.6

ENERGY COSTS TO:

TS SHT NO. 115

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: <u>(</u> 6	530)-424-5704
COMPANY: C	OM-ED LOMBARD
DUNT NUMBER:	
	USER NAME = dwiktorzak

USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES US RTE 34 (OGDEN AVE) AND NAPER BLVD
SHEET 15 OF 33 SHEETS STA.

CABLE PLAN

EX. CALLING

EX. CALLING -DETECTORS

EX. CALLING DETECTORS

NAPER BLVD

- TRACER CABLE

EX. INTERCONNECT CABLE (TO REMAIN)

EX. CALLING DETECTORS

> SECTION COUNTY DUPAGE 277 123 17-DCCSS-01-TL CONTRACT NO. 61F05

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

PROP. INTERCONNECT -TO RIDGELAND AVE **US RTE 34** (OGDEN AVE) TRACER CABLE -EX. INTERCONNECT CABLE (TO REMAIN) PROP. INTERCONNECT TO NAPERVILLE-WHEATON RD

> PROP. INTERCONNECT TO PLANK RD

TRACER CABLE -

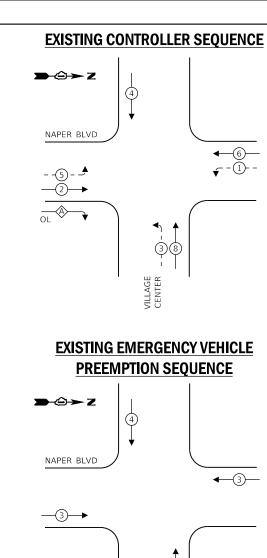
EX. INTERCONNECT -CABLE (TO REMAIN)

EXISTING SYSTEM -DETECTORS

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
9	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
234	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER SOCKET

IDOT TS 9605



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	2	20	100	40.0
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	-	-	-	-
PTZ CAMERA	-	75	100	-
		-	TOTAL =	473.8

ENERGY COSTS TO:

TS SHT NO. 116

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: (630)-424-5704

COMPANY: COM-ED LOMBARD

ACCOUNT NUMBER:_

LEGEND:

* PROTECTED PHASE

← - ** - PROTECTED/PERMITTED PHASE

√-(*)- PEDESTRIAN PHASE

◆ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP
LETTERPERMISSIVE
PHASEPROTECTED
PHASEA=2+3

DETECTION LOOPS
CONNECTED
TO US RTE 34

TRACER CABLE -

EX. INTERCONNECT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

EACH CONTROLLER

CABLE PLAN (NOT TO SCALE)

(1#6)

TOWER Crossing

G (1)

1)-0-(1

3#20 0

SCHEDULE OF QUANTITIES CABL (NOT TO

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROP. INTERCONNECT

TO US RTE 34 (OGDEN AVE)

-(24SM)

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER SOCKET

DUDOT



F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
VAR.	17-DCCSS-01-TL	DUPAGE	277	124	
			CONTRACT	NO.	51F05
	ILLINOIS	FED. A	ID PROJECT		

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

TRACER CABLE

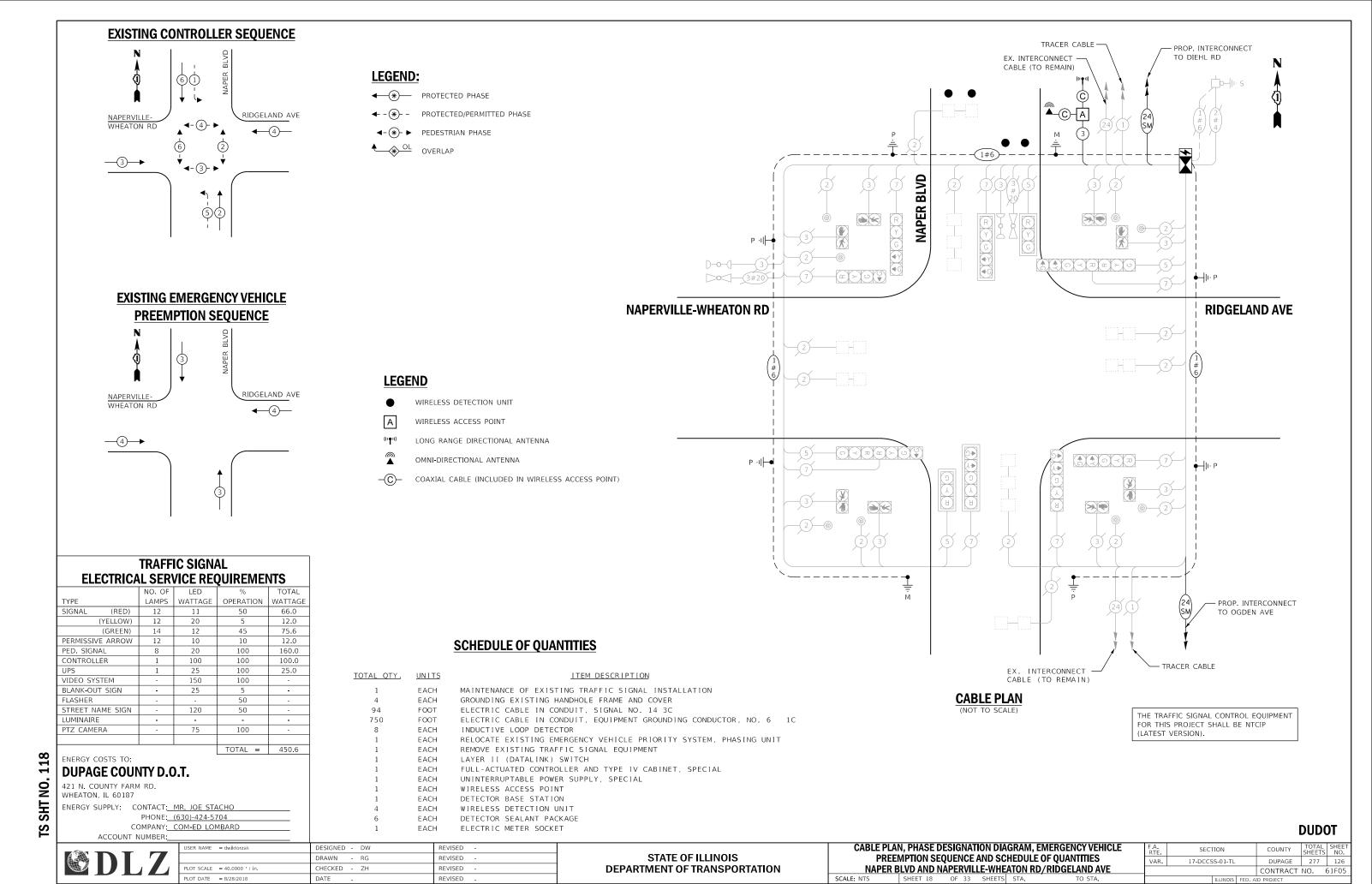
EX. INTERCONNECT

CABLE (TO REMAIN)

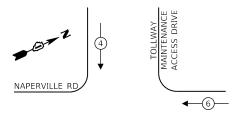
- PROP. INTERCONNECT

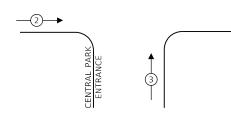
TO RIDGELAND AVE

JSER NAME = dwiktorzak DESIGNED - DW REVISED TRAFFIC SIGNAL MODERNIZATION PLAN SECTION COUNTY STATE OF ILLINOIS DRAWN - RG REVISED 17-DCCSS-01-TL DUPAGE 277 125 NAPER BLVD AND NAPERVILLE-WHEATON RD/RIDGELAND AVE **DEPARTMENT OF TRANSPORTATION** CHECKED - ZH REVISED CONTRACT NO. 61F05 SHEET 17 OF 33 SHEETS STA. REVISED PLOT DATE = 8/28/2018 DATE

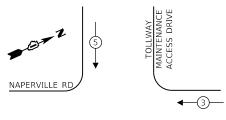


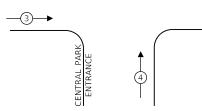
E NAME = pw:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 48-sht-ts-cable.dgn





EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	I NO. OF	l ren	70	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	19	11	50	104.5
(YELLOW)	19	20	5	19.0
(GREEN)	21	12	45	113.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	20	100	-
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	3	250	50	375.0
PTZ CAMERA	-	75	100	-

ENERGY COSTS TO:

TS SHT NO. 119

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

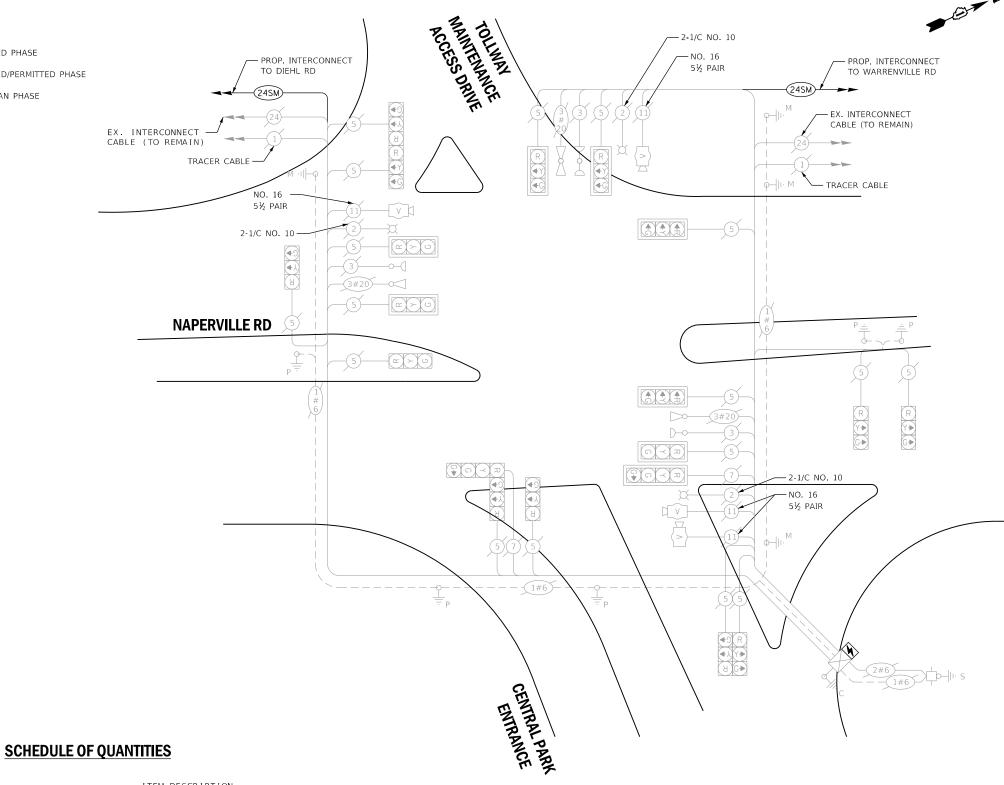
ACCOUNT NUMBER:

LEGEND:

◆ PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

◄- *- > PEDESTRIAN PHASE



TOTAL QTY.	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	FACH	MODIFY EXISTING CONTROLLER CABINET SPECIAL

ELECTRIC METER SOCKET

CABLE PLAN





USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL NAPERVILLE RD RD AND CENTRAL PARK ENTRANCE
SHEET 19 OF 33 SHEETS STA. TO ST

w:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 46-sht-ts-cable.dgn

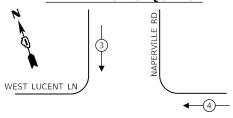
TOTAL = 886.9

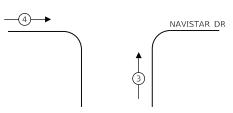
DUPAGE 277 127

CONTRACT NO. 61F05

COUNTY

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	14	11	50	77.0
	(YELLOW)	14	20	5	14.0
	(GREEN)	14	12	45	75.6
PERMISSI	VE ARROW	16	10	10	16.0
PED. SIG	NAL	12	20	100	240.0
CONTROL	LER	1	100	100	100.0
UPS		1	25	100	25.0
VIDEO SY	/STEM	-	150	100	-
BLANK-O	UT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET N	NAME SIGN	-	120	50	-
LUMINAIR	RE	1	250	50	125.0
PTZ CAM	ERA	-	75	100	-

ENERGY COSTS TO:

TS SHT NO. 120

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

LEGEND:

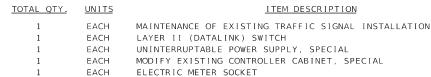
◆ * PROTECTED PHASE

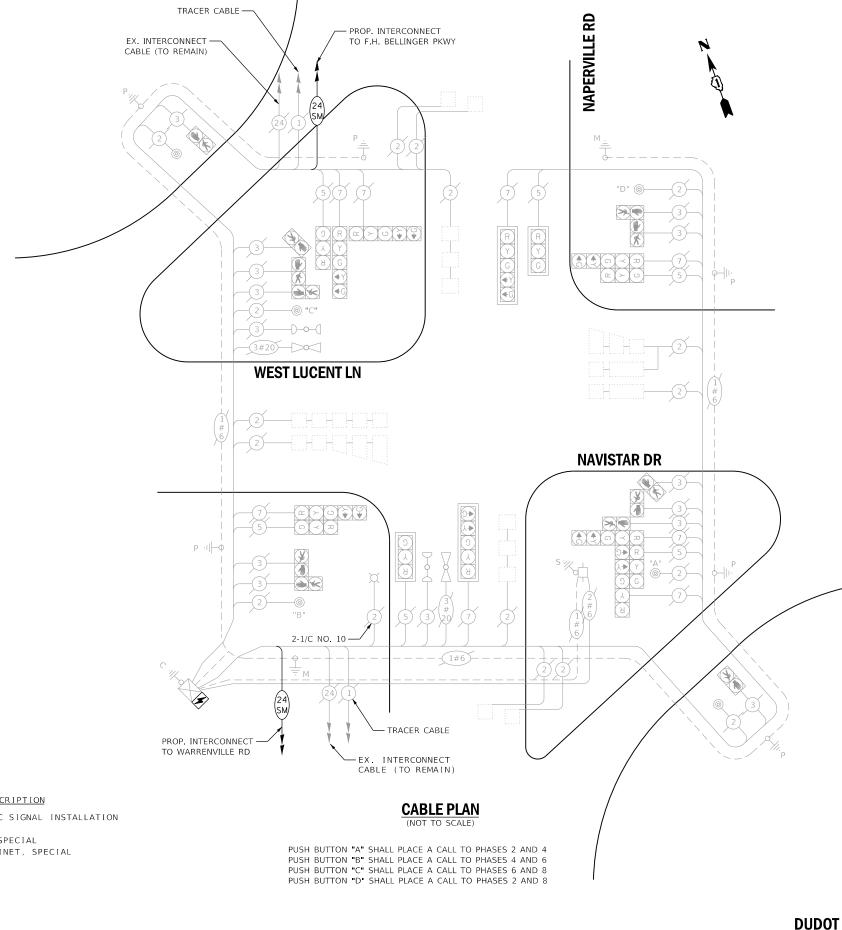
← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

SOL OVERLA

SCHEDULE OF QUANTITIES







 USER NAME
 = dwiktorzak
 DESIGNED
 - DW
 REVISED

 DRAWN
 - RG
 REVISED

 PLOT SCALE
 = 40,0000 ' / in.
 CHECKED
 - ZH
 REVISED

 PLOT DATE
 = 8/28/2018
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
NAPERVILLE RD AND WEST LUCENT LN/NAVISTAR DR

IN NTS SHEET 20 OF 33 SHEETS STA. TO STA.

TO STA.

F.A.
RTE.
SECTION
COUNTY
SHEETS NO.
VAR. 17-DCCSS-01-TL
DUPAGE 277 128
CONTRACT NO. 61F05

TOTAL = 672.6

EXISTING CONTROLLER SEQUENCE NAPERVILLE RD

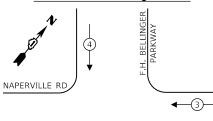
LEGEND:

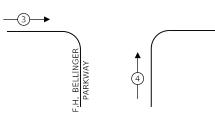
◆ PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

(YELLOW) 14.0 (GREEN) 14 12 75.6 PERMISSIVE ARROW 10 10 8.0 160.0 100 100 100.0 25 100 25.0 150 100

WATTAGE

OPERATION

TOTAL =

50

WATTAGE

77.0

959.6

TRAFFIC SIGNAL

ELECTRICAL SERVICE REQUIREMENTS

PED. SIGNAL CONTROLLER UPS VIDEO SYSTEM BLANK-OUT SIGN FLASHER STREET NAME SIGN 120 50 500.0 LUMINAIRE 250 50 PTZ CAMERA

14

ENERGY COSTS TO:

TS SHT NO. 121

SIGNAL

DUPAGE COUNTY D.O.T.

(RED)

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER SOCKET



F.H. BELLINGER PARKWAY

-(1#6)

F.H. BELLINGER PARKWAY

DUDOT



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

- PROP. INTERCONNECT TO LUCENT LN

2-1/C NO. 10 -

NAPERVILLE RD

EX. INTERCONNECT CABLE (TO REMAIN)

> CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES VAR. NAPERVILLE RD AND F.H. BELLINGER PARKWAY
> SHEET 21 OF 33 SHEETS STA. TO

- 2-1/C NO. 10

SECTION COUNTY 17-DCCSS-01-TL DUPAGE 277 129 CONTRACT NO. 61F05

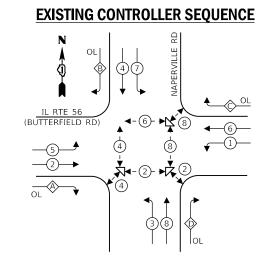
TRACER CABLE

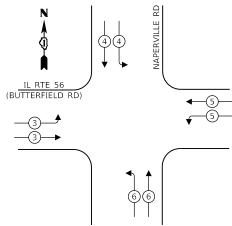
TO IL 56

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP

(LATEST VERSION).

- PROP. INTERCONNECT





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	27	11	50	148.5
(YELLOW)	27	20	5	27.0
(GREEN)	27	12	45	145.8
PERMISSIVE ARROW	26	10	10	26.0
PED. SIGNAL	14	20	100	280.0
CONTROLLER	2	100	100	200.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	=	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
PTZ CAMERA	-	75	100	-
			TOTAL =	852.3

ENERGY COSTS TO:

TS SHT NO.

ILLINOIS DEPARTMENT OF TRANSPORTATION

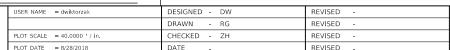
DIVISION OF HIGHWAYS/DISTRICT 1

201 WEST CENTER COURT/ SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MR. DAVE SCHACHT PHONE: (630)-437-2129

COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:



TOTAL QTY.

<u>UNITS</u>

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES IL RTE 56 (BUTTERFIELD RD) AND NAPERVILLE RD
SHEET 22 OF 33 SHEETS STA. TO S

TRACER CABLE

PROP. INTERCONNECT

TO F.H. BELLINGER PKWY

SECTION 17-DCCSS-01-TL DUPAGE 277 130 CONTRACT NO. 61F05

- EX. INTERCONNECT

- EX. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

TO E LOOP RD

TRACER CABLE

PROP. INTERCONNECT TO DANADA SQ - EX. INTERCONNECT CABLE (TO REMAIN) EX. INTERSECTION AND EXISTING LOCAL AND MASTER CONTROLLER TO REMAIN. MASTER SAMPLING (SYSTEM) DETECTORS OPERATES SYSTEM IL 56 (BUTTERFIELD RD) TRACER CABLE **LEGEND: ◆ *** PROTECTED PHASE EX. INTERCONNECT TO CROMWELL DR PROTECTED/PERMITTED PHASE **◄-***→ PEDESTRIAN PHASE **● *** OL OVERLAP TRACER CABLE -**RIGHT TURN OVERLAP PHASE DESIGNATION:** PERMISSIVE PHASE D-0-(] EX. INTERSECTION AND SAMPLING (SYSTEM)

> IL RTE 56 (BUTTERFIELD RD)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

CABLE PLAN

DETECTORS

EX. INTERSECTION AND SAMPLING (SYSTEM)

> **IDOT TS 6315 ECON 46**

© DLZ

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
NAPERVILLE RD AND DANADA SQ

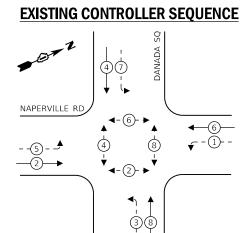
SHEET 23 OF 33 SHEETS STA. TO

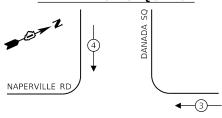
SECTION COUNTY TOTAL SHEETS NO.

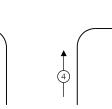
R. 17-DCCSS-01-TL DUPAGE 277 131

CONTRACT NO. 61F05

|| ILLINOIS | FED. ALD PROJECT|







TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	l LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	250	50	125.0
PTZ CAMERA	1	75	100	75.0
			TOTAL =	841.4

ENERGY COSTS TO:

TS SHT NO. 124

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

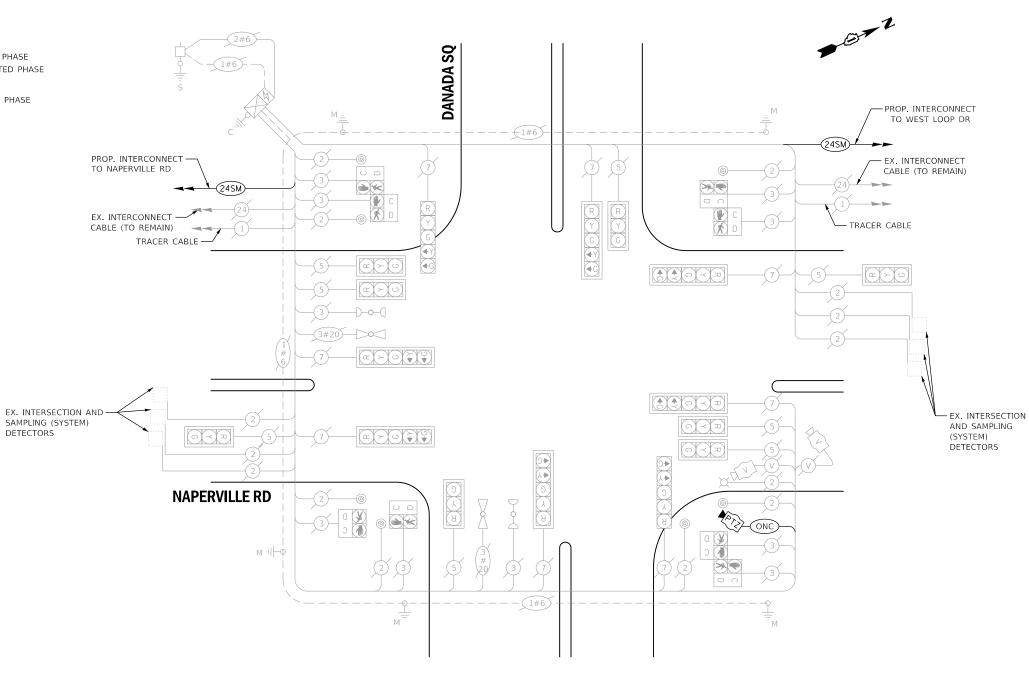
PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD

LEGEND:

PROTECTED PHASE
PROTECTED/PERMITTED PHASE
--*--

◄-*- ► PEDESTRIAN PHASE

OL OVERLAR



CABLE PLAN (NOT TO SCALE)

SCHEDULE OF QUANTITIES

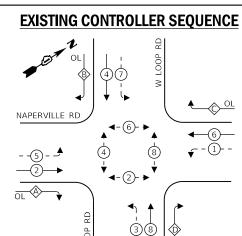
TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
324.5	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER SOCKET

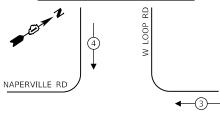
DUDOT

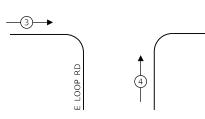


USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION







TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

NO. OF	l LED	%	TOTAL
LAMPS	WATTAGE	OPERATION	WATTAGE
20	11	50	110.0
20	20	5	20.0
20	12	45	108.0
36	10	10	36.0
8	20	100	160.0
1	100	100	100.0
1	25	100	25.0
-	150	100	-
-	25	5	-
-	-	50	-
-	120	50	-
2	250	50	250.0
-	75	100	-
		TOTAL =	809.0
	20 20 20 36 8 1 1	LAMPS WATTAGE 20 11 20 20 20 12 36 10 8 20 1 100 1 25 - 150 - 25 - 120 2 250	LAMPS WATTAGE OPERATION 20 11 50 20 20 5 20 12 45 36 10 10 1 100 100 1 25 100 - 150 100 - 25 5 - - 50 - 120 50 2 250 50 - 75 100

ENERGY COSTS TO:

TS SHT NO. 125

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

ACCOUNT NUMBER

LEGEND:

◆ PROTECTED PHASE

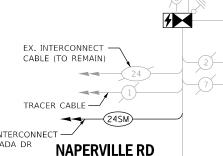
← - (*)- - PROTECTED/PERMITTED PHASE

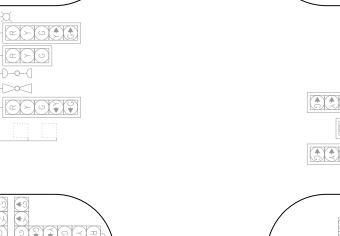
√-(*)- ► PEDESTRIAN PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTE PHASE
Α	=	2	+	3
В	-	4	+	5
C	=	6	+	7
D	-	8	+	1

PROP. INTERCONNECT TO DANADA DR





CABLE PLAN

LOOP RD

R 49 Y 41 G 9

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND SHALL BE NTCIP (LATEST VERSION).

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

<u>UNITS</u>

EACH

EACH

EACH EACH

EACH

EACH

EACH

CONTROLLER AND CABINET (COMPLETE) EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION INDUCTIVE LOOP DETECTOR RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT LAYER II (DATALINK) SWITCH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

ELECTRIC METER SOCKET



DESIGNED - DW REVISED JSER NAME = dwiktorzak DRAWN - RG REVISED CHECKED - ZH REVISED REVISED PLOT DATE = 8/28/2018 DATE

TOTAL QTY.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES VAR. 17-DCCSS-01-TL NAPERVILLE RD AND LOOP RD
SHEET 25 OF 33 SHEETS STA.

v:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 67-sht-ts-cable.dgm

DUPAGE 277 133

CONTRACT NO. 61F05

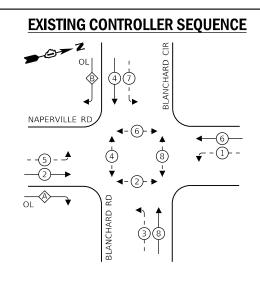
COUNTY

PROP. INTERCONNECT TO BLANCHARD RD

EX. INTERCONNECT

CABLE (TO REMAIN)

1 TRACER CABLE



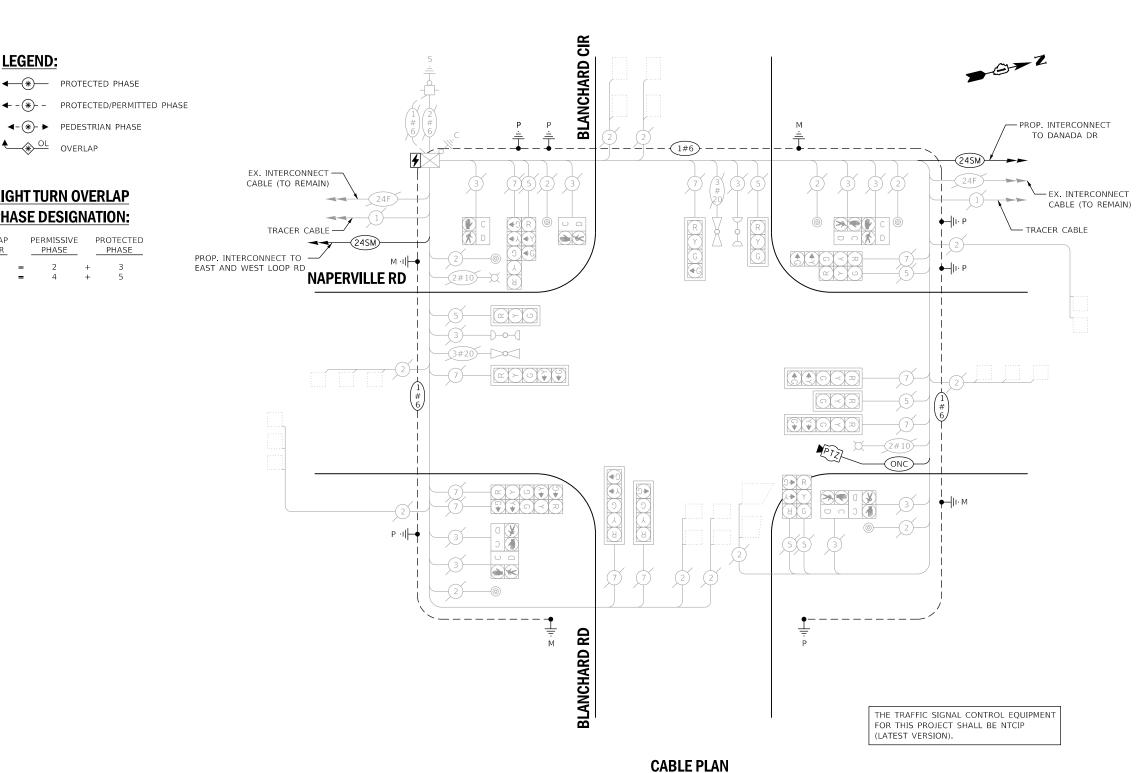
RIGHT TURN OVERLAP PHASE DESIGNATION:

◆ PROTECTED PHASE

√-(*)- ► PEDESTRIAN PHASE

LEGEND:

PERMISSIVE __PHASE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

1		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	17	11	50	93.5
	(YELLOW)	17	20	5	17.0
	(GREEN)	19	12	45	102.6
PERMISSI	IVE ARROW	16	10	10	16.0
PED. SIG	NAL	8	20	100	160.0
CONTRO	LLER	1	100	100	100.0
UPS		1	25	100	25.0
VIDEO S	YSTEM	-	150	100	-
BLANK-O	UT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET I	NAME SIGN	-	120	50	-
LUMINAIF	RE	2	250	50	250.0
PTZ CAM	IERA	1	75	100	75.0

ENERGY COSTS TO:

TS SHT NO. 127

DUPAGE COUNTY D.O.T.

NAPERVILLE RD

421 N. COUNTY FARM RD. WHEATON, IL 60187

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

COMPANY: COM-ED LOMBARD ACCOUNT NUMBER

SCHEDULE OF QUANTITIES

TOTAL QTY. <u>UNITS</u> ITEM DESCRIPTION MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION GROUNDING EXISTING HANDHOLE FRAME AND COVER EACH ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C 750 FOOT EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 310 FOOT OUTDOOR RATED NETWORK CABLE REMOTE CONTROLLED VIDEO SYSTEM EACH LAYER II (DATALINK) SWITCH EACH EACH FULL-ACTUATED CONTROLLER IN EXISTING CABINET EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL ELECTRIC METER SOCKET EACH

DUDOT



DESIGNED - DW REVISED -JSER NAME = dwiktorzak DRAWN - RG REVISED CHECKED - ZH REVISED REVISED PLOT DATE = 8/28/2018 DATE

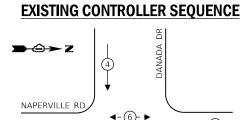
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES NAPERVILLE RD AND BLANCHARD RD

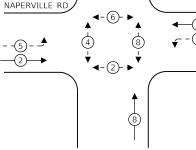
COUNTY DUPAGE 277 135 CONTRACT NO. 61F05

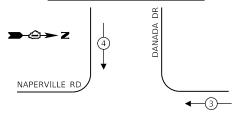
SECTION

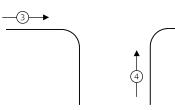
17-DCCSS-01-TL

TOTAL = 839.1









TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	11	11	50	60.5
	(YELLOW)	11	20	5	11.0
	(GREEN)	11	12	45	59.4
PERMISSI'	VE ARROW	12	10	10	12.0
PED. SIGI	VAL	8	20	100	160.0
CONTROL	LER.	1	100	100	100.0
UPS		1	25	100	25.0
VIDEO SYSTEM		-	150	100	-
BLANK-OU	JT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET NAME SIGN		-	120	50	-
LUMINAIR	Ε	2	250	50	250.0
PTZ CAM	ERA	-	75	100	=

ENERGY COSTS TO:

TS SHT NO. 128

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

ACCOUNT NUMBER:

JSER NAME = dwiktorzak DESIGNED - DW REVISED DRAWN - RG REVISED CHECKED - ZH REVISED PLOT DATE = 8/28/2018 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES NAPERVILLE RD AND DANADA DR ET 28 OF 33 SHEETS STA.

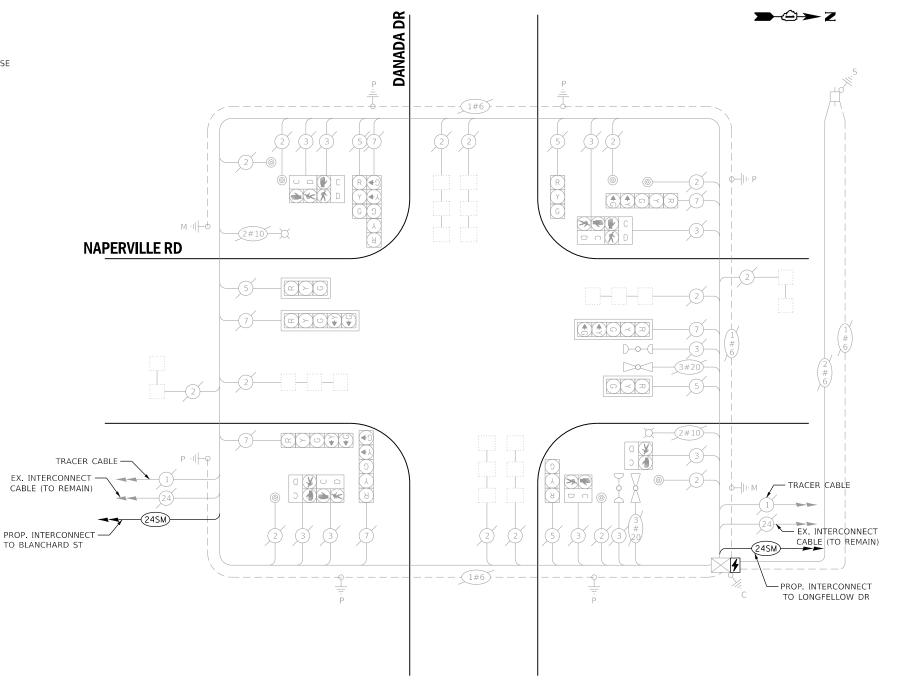
SECTION COUNTY 17-DCCSS-01-TL DUPAGE 277 136 CONTRACT NO. 61F05

LEGEND:

◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE



CABLE PLAN

SCHEDULE OF QUANTITIES

TOTAL QTY. ITEM DESCRIPTION <u>UNITS</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH EACH LAYER II (DATALINK) SWITCH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL EACH ELECTRIC METER SOCKET

DUDOT

v:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 69-sht-ts-cable.dgm

TOTAL = 677.9

DUPAGE 277 137

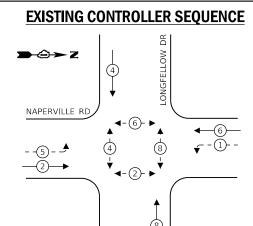
CONTRACT NO. 61F05



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

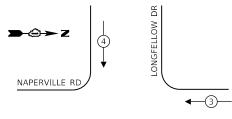
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

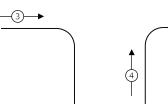
TRAFFIC SIGNAL MODERNIZATION PLAN SECTION VAR. 17-DCCSS-01-TL NAPERVILLE RD AND LONGFELLOW DR SHEET 29 OF 33 SHEETS STA.



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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	12	11	50	66.0
	(YELLOW)	12	20	5	12.0
	(GREEN)	12	12	45	64.8
PERMISSI	VE ARROW	8	10	10	8.0
PED. SIGI	NAL	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	=
LUMINAIR	ΙΕ.	-	-	-	-
PTZ CAM	ERA	1	75	100	75.0

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

SCHEDULE OF QUANTITIES

TOTAL QTY. ITEM DESCRIPTION <u>UNITS</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH DRILL EXISTING HANDHOLE EACH OUTDOOR RATED NETWORK CABLE 309 FOOT EACH REMOTE CONTROLLED VIDEO SYSTEM EACH LAYER II (DATALINK) SWITCH EACH UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED MODIFY EXISTING CONTROLLER CABINET, SPECIAL EACH EACH ELECTRIC METER SOCKET

CABLE PLAN

1#6

LONGFELLOW DR

1#6

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

2" UNDERGROUND GALVANIZED STEEL

DUDOT

COUNTY

- PROP. INTERCONNECT TO FARNHAM LN

- EX. INTERCONNECT CABLE (TO REMAIN)

- TRACER CABLE



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

NAPERVILLE RD

TRACER CABLE -

EX. INTERCONNECT — CABLE (TO REMAIN)

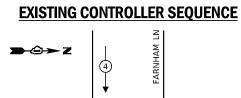
PROP. INTERCONNECT — TO DANADA DR

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL DUPAGE 277 138 NAPERVILLE RD AND LONGFELLOW DR
SHEET 30 OF 33 SHEETS STA. CONTRACT NO. 61F05

FILE NAME = pw:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 70-sht-ts-cable.dgn
Default

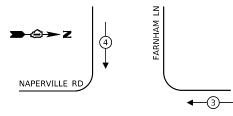
TOTAL = 510.8

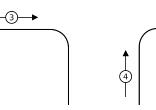
TS SHT NO. 130



NAPERVILLE RD

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	10	11	50	55.0
	(YELLOW)	10	20	5	10.0
	(GREEN)	10	12	45	54.0
PERMISSI	IVE ARROW	8	10	10	8.0
PED. SIG	NAL	8	20	100	160.0
CONTROLLER		1	100	100	100.0
UPS		1	25	100	25.0
VIDEO SYSTEM		-	150	100	-
BLANK-O	UT SIGN	-	25	5	-
FLASHER		-	-	50	-
STREET 1	NAME SIGN	-	120	50	-
LUMINAIF	RE	2	250	50	250.0
PTZ CAM	IERA	-	75	100	-

ENERGY COSTS TO:

TS SHT NO, 131

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

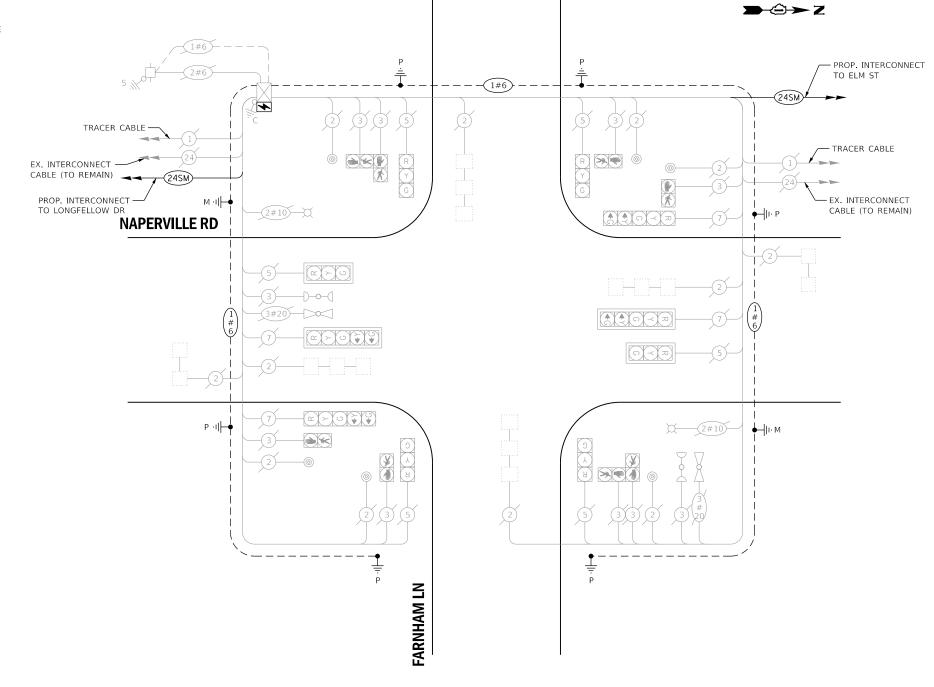
LEGEND:

◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

OVERLAP OVERLAP



CABLE PLAN

SCHEDULE OF QUANTITIES

ELECTRIC METER SOCKET

ITEM DESCRIPTION

TOTAL QTY. <u>UNITS</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION GROUNDING EXISTING HANDHOLE FRAME AND COVER EACH ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT EACH LAYER II (DATALINK) SWITCH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE - 8/28/2018	DATE	REVISED

750

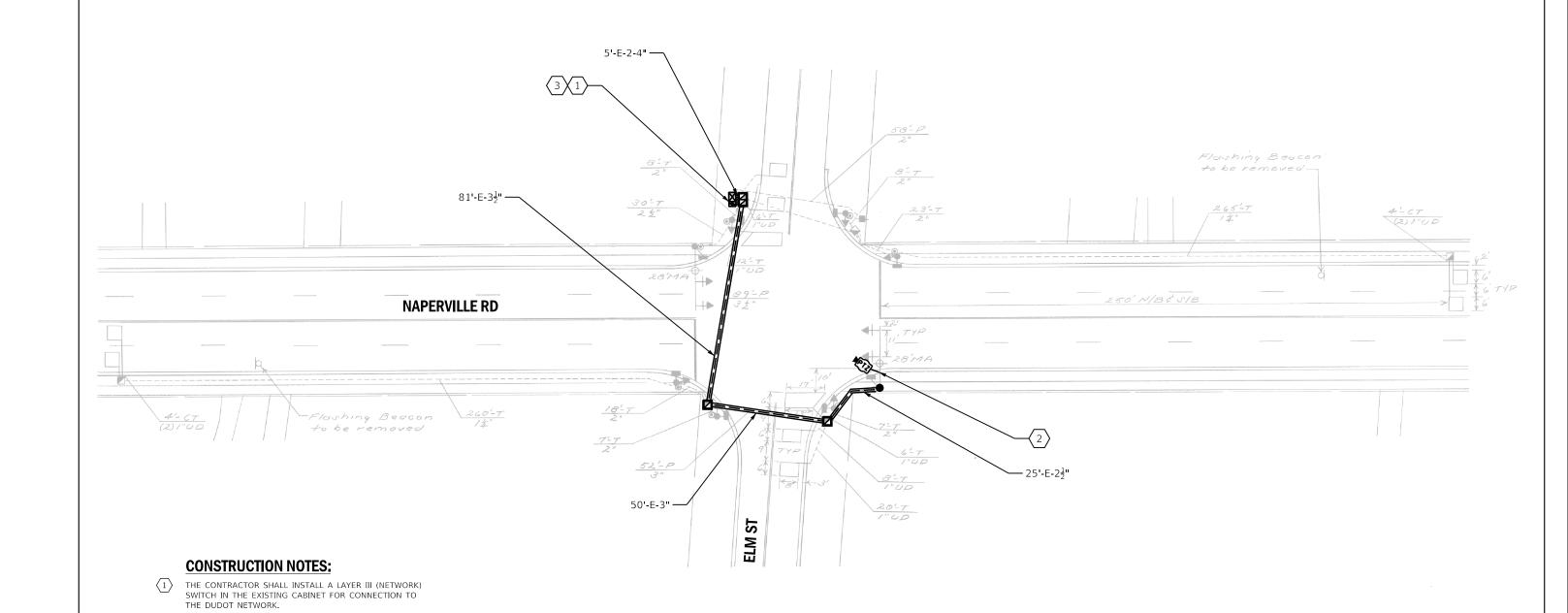
EACH

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

					IERGENCY VEHICLE	F.A. RTE	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES					VAR.	17-DCCS	S-01-TL		DUPAGE	277	139	
NAPERVILLE RD AND FARNHAM LN								CONTRACT	NO.	61F05		
SCALE: NTS	SHEET 31	OF 33	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

v:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 71-sht-ts-cable.dgn

TOTAL = 662.0



	_	_	
			Г
			Г
			г

TS SHT NO. 132

USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS

TRAFFIC SIGNAL MODERNIZATION PLAN
NAPERVILLE RD AND ELM ST

SHEET 32 OF 33 SHEETS STA. TO STA.

A. SECTION COUNTY TOTAL SHEETS NO.

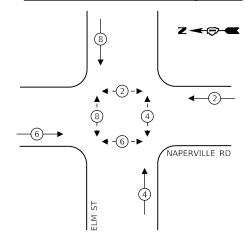
/AR. 17-DCCSS-01-TL DUPAGE 277 140

CONTRACT NO. 61F05

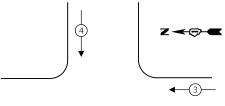
DUDOT

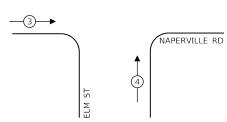
THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING COMBINATION MAST ARM ASSEMBLY AND POLE.

THE CONTACTOR SHALL INSTALL A UPS SYSTEM.



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	l LED	//	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	-	10	10	-
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	2	250	50	250.0
PTZ CAMERA	1	75	100	75.0
			TOTAL =	729.0

ENERGY COSTS TO:

TS SHT NO. 133

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187
ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

ACCOUNT NUMBER:

USER NAME = dwiktorzak DESIGNED - DW REVISED DRAWN - RG REVISED PLOT SCALE = 40,0000 ' / in. CHECKED - ZH REVISED PLOT DATE = 8/28/2018 DATE REVISED

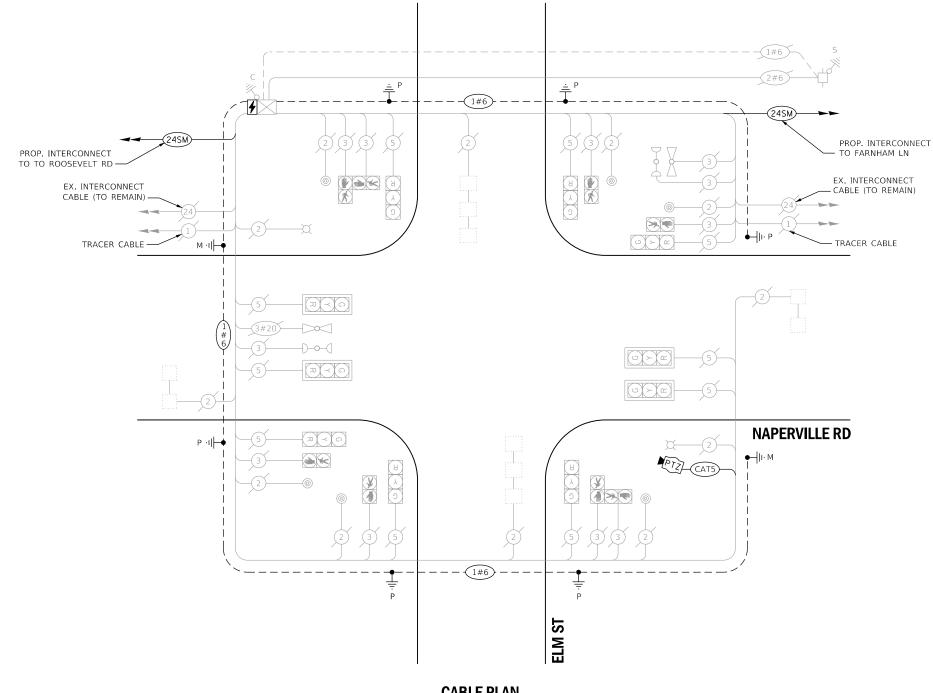
LEGEND:

◆ PROTECTED PHASE

← - * - PROTECTED/PERMITTED PHASE

◆-(*)- PEDESTRIAN PHASE

OVERLAP OVERLAP



(NOT TO SCALE)

SCHEDULE OF QUANTITIES

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

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

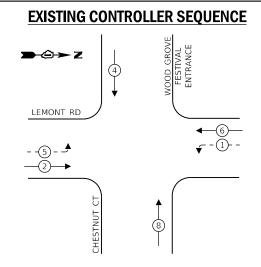
DUDOT

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

SHEET 33 OF 33 SHEETS STA. TO STA.

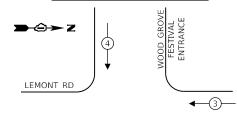
F.A. SECTION COUNTY SHEETS NO.
VAR. 17-DCCSS-01-TL DUPAGE 277 141

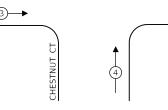
CONTRACT NO. 61F05



EXISTING EMERGENCY VEHICLE

PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	12	11	50	66.0
	(YELLOW)	12	20	5	12.0
	(GREEN)	12	12	45	64.8
PERMISSI	IVE ARROW	8	10	10	8.0
PED. SIG	NAL	-	20	100	-
CONTROLLER		1	100	100	100.0
UPS		1	25	100	25.0
VIDEO S	YSTEM	-	150	100	-
BLANK-OUT SIGN		-	25	5	-
FLASHER		-	-	50	-
STREET I	NAME SIGN	-	120	50	-
LUMINAIF	RE	-	-	-	-
PTZ CAM	IERA	-	75	100	-

ENERGY COSTS TO:

TS SHT NO. 134

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

COMPANY: ACCOUNT NUMBER:

LEGEND:

◆ * PROTECTED PHASE

← - **- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

* OVERLA

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

EACH CONTROLLER

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION	
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER	
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6	10
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	
1	EACH	LAYER II (DATALINK) SWITCH	
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	
1	EACH	ELECTRIC METER SOCKET	



占

CHESTNUT

WOOD GROVE FESTIVAL ENTRANCE

DUIDOT

DUPAGE 277 142

CONTRACT NO. 61F05

COUNTY

→②→ Z

PROP. INTERCONNECT TO 75TH ST

- EX. INTERCONNECT CABLE (TO REMAIN)

- TRACER CABLE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT

FOR THIS PROJECT SHALL BE NTCIP



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

м ч⊩•

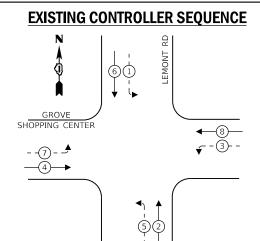
LEMONT RD

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

SHEET 1 OF 3 SHEETS STA TO STA

E NAME = pw:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 35-sht-ts-cable.dgn

TOTAL = 275.8

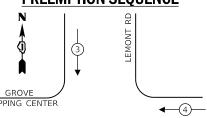


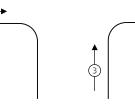
◆ * PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL

ELECTRICAL SERVICE REQUIREMENTS

12

16

WATTAGE

11

12

10

100

25

150

120

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

OPERATION

50

45

10

100

100

100

50

50

100 TOTAL = WATTAGE

66.0

12.0

64.8

16.0

100.0

25.0

283.8

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

EACH CONTROLLER AND CABINET (COMPLETE)

PROP. INTERCONNECT -**LEMONT RD** TO DUNHAM RD 1#6 **GROVE SHOPPING CENTER** PROP. INTERCONNECT -TO 75TH ST - EX. INTERCONNECT CABLE (TO REMAIN) THE TRAFFIC SIGNAL CONTROL EQUIPMENT

TRACER CABLE

EX. INTERCONNECT CABLE (TO REMAIN)

TRACER CABLE -

CABLE PLAN

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
6	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	ELECTRIC METER SOCKET

DUDOT



DUPAGE COUNTY D.O.T. 421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

SIGNAL

UPS

TS SHT NO, 135

PED. SIGNAL CONTROLLER

VIDEO SYSTEM

FLASHER

LUMINAIRE PTZ CAMERA

BLANK-OUT SIGN

STREET NAME SIGN

ENERGY COSTS TO:

(RED)

(YELLOW)

(GREEN)

PERMISSIVE ARROW

JSER NAME = dwiktorzak DESIGNED - DW DRAWN - RG CHECKED - ZH PLOT DATE = 8/28/2018 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES VAR. 17-DCCSS-01-TL LEMONT RD AND GROVE SHOPPING CENTER
SHEET 2 OF 3 SHEETS STA. T

FOR THIS PROJECT SHALL BE NTCIP

REVISED

REVISED

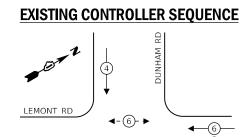
REVISED

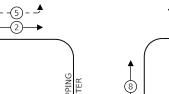
REVISED

:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 34-sht-ts-cable.dgm

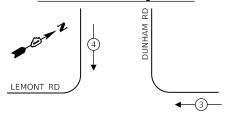
COUNTY DUPAGE 277 143

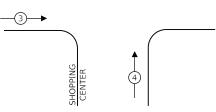
CONTRACT NO. 61F05





EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	1.0.0.		/ / /	101/12
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	8	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	-
LUMINAIRE	-	-	-	-
PTZ CAMERA	-	75	100	-

ENERGY COSTS TO:

TS SHT NO. 136

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. JOE STACHO

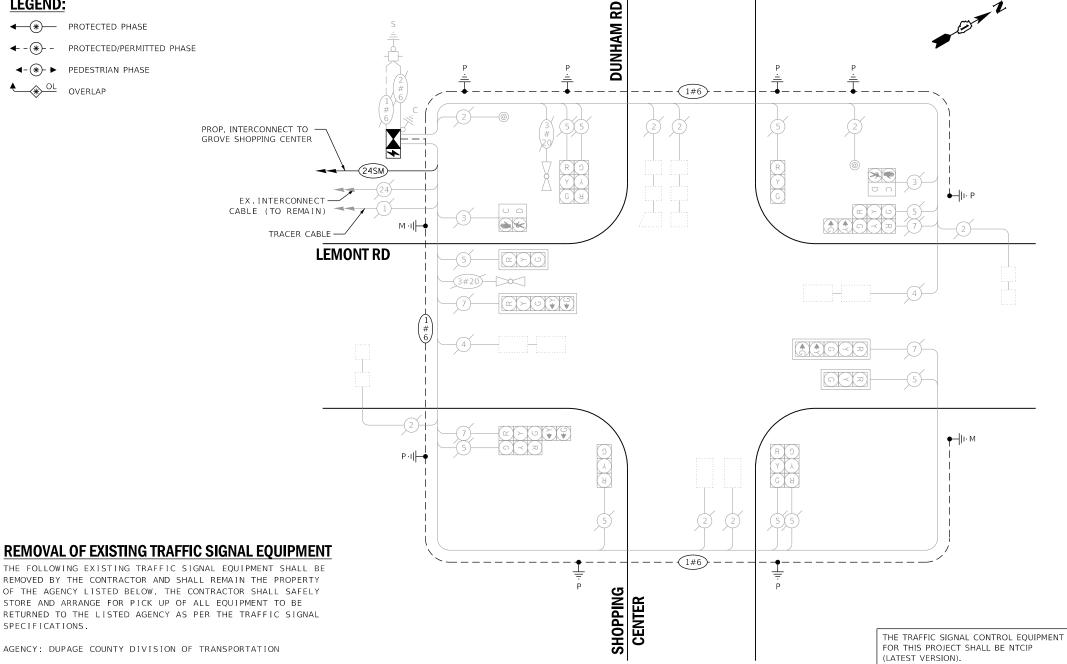
PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD ACCOUNT NUMBER:

LEGEND:

◆ * PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE



SCHEDULE OF QUANTITIES

CONTROLLER AND CABINET (COMPLETE)

CABLE PLAN

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
8	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	ELECTRIC METER SOCKET



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

SPECIFICATIONS.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL LEMONT RD AND DUNHAM RD
SHEET 3 OF 3 SHEETS STA. CONTRACT NO. 61F05

TOTAL = 339.6

DUPAGE 277 144

COUNTY

17-DCCSS-01-TL

PLAINFIELD RD AND MANNING RD

OF 5 SHEETS STA.

DUPAGE 277 145

CONTRACT NO. 61F05

CHECKED - ZH

DATE

REVISED

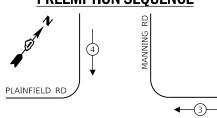
REVISED

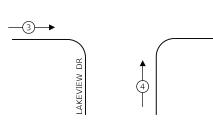
EXISTING CONTROLLER SEQUENCE PLAINFIELD RD

LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL							
ELECTRICAL SERVICE REQUIREMENTS							

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	8	10	10	8.0
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	2	250	50	250.0
PTZ CAMERA	1	75	100	75.0
			TOTAL =	772.7

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

SCHEDULE OF QUANTITIES

TOTAL QTY.	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	CAMERA MOUNTING ASSEMBLY
287.5	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER SOCKET

≯€ **PLAINFIELD RD** EX. INTERCONNECT TO BAILEY RD - TRACER CABLE

CABLE PLAN (NOT TO SCALE)

SCALE: NTS

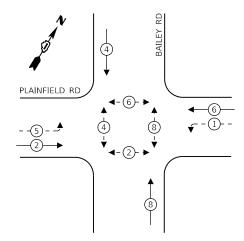
DUDOT



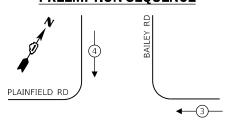
USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

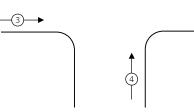
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CADEL I EAN, I HAGE DEGIGNATION DIAGNAM, EMERGENOT VEHICLE						F.A. RTE	SECTION		COUNTY
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES						VAR.	17-DCCSS-01-TL		DUPAGE
	PLAIN	<u>ifield R</u>	<u>d and n</u>	<u> 1ANNING</u>	G RD				CONTRACT
LE: NTS	SHEET 2	OF 5	SHEETS	STA.	TO STA		ILLIMOIS	EED A	ID DROIECT



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

		NO. OF	LED	%	TOTAL
TYPE		LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL	(RED)	14	11	50	77.0
	(YELLOW)	14	20	5	14.0
	(GREEN)	14	12	45	75.6
PERMISSI	VE ARROW	8	10	10	8.0
PED. SIGN	NAL	8	20	100	160.0
CONTROL	LER	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
LUMINAIR	E	4	250	50	500.0
PTZ CAME	ERA	-	75	100	-

ENERGY COSTS TO:

TS SHT NO. 139

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187

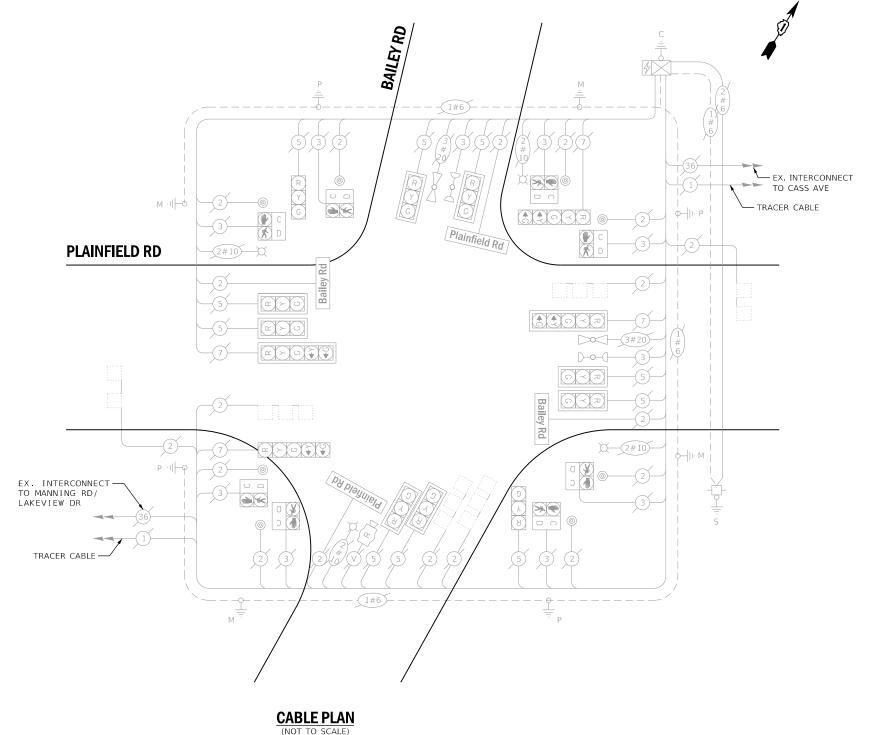
ENERGY SUPPLY: CONTACT: MR. JOE STACHO PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD

LEGEND:

◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE



SCHEDULE OF QUANTITIES

TOTAL QTY. ITEM DESCRIPTION <u>UNITS</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION LAYER II (DATALINK) SWITCH EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL EACH ELECTRIC METER SOCKET

DUDOT



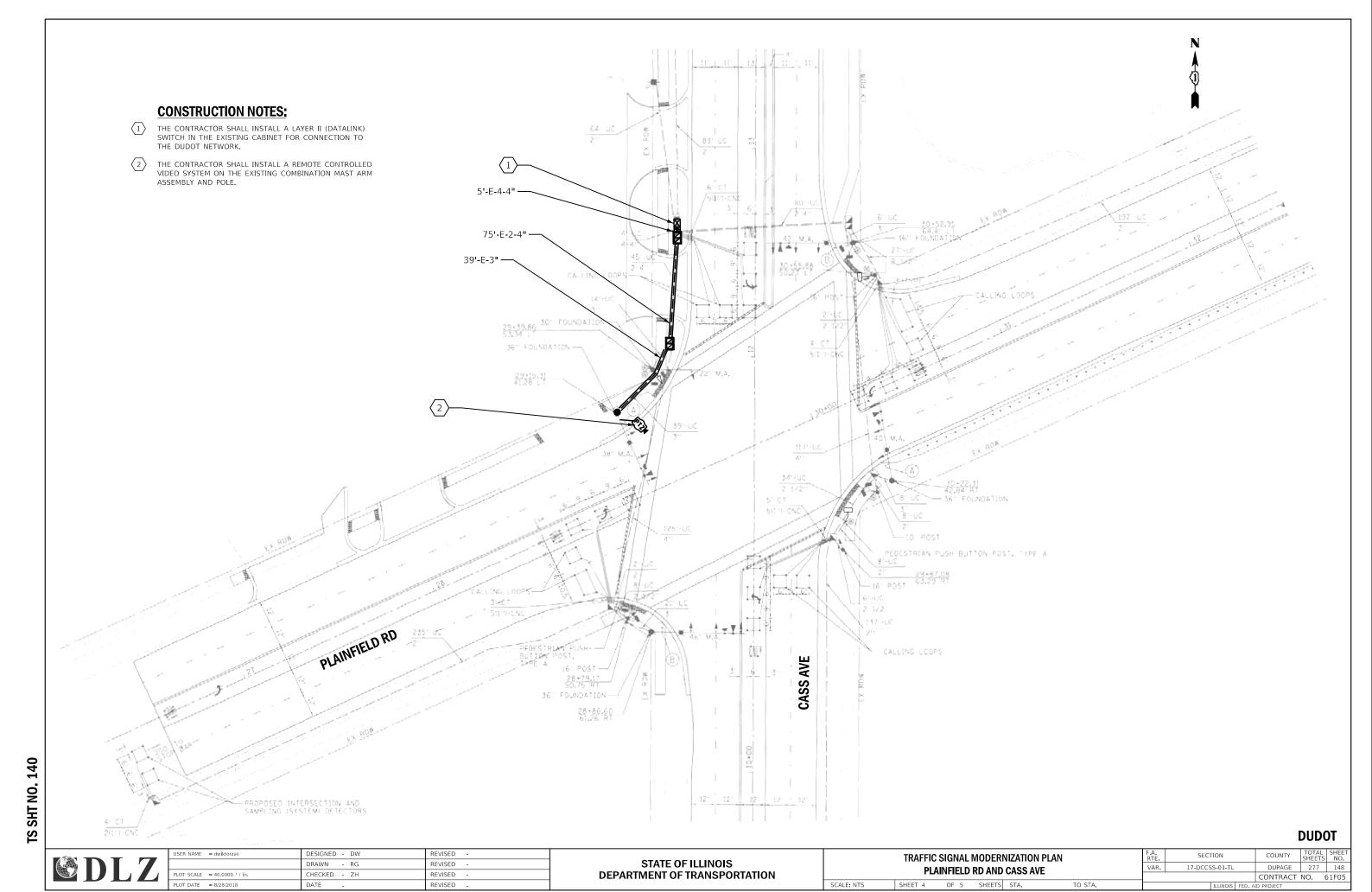
USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL DUPAGE 277 147 PLAINFIELD RD AND BAILEY RD

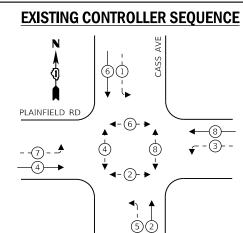
3 OF 5 SHEETS STA. CONTRACT NO. 61F05

v:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 31-sht-ts-cable.dgn

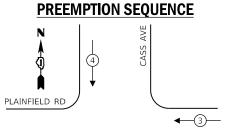
TOTAL = 1199.6

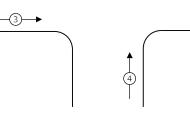


NAME = pw:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 30-sht-ts-plan.dgn



EXISTING EMERGENCY VEHICLE





TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

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

ENERGY COSTS TO:

TS SHT NO, 141

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187 ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

ACCOUNT NUMBER:

JSER NAME = dwiktorzak DESIGNED - DW REVISED REVISED DRAWN - RG CHECKED - ZH REVISED REVISED PLOT DATE = 8/28/2018 DATE

TOTAL QTY.

204.5

<u>UNITS</u>

EACH FOOT

EACH

EACH

EACH

EACH

LEGEND:

◆ * PROTECTED PHASE

√-(*)- ► PEDESTRIAN PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

STATE OF **DEPARTMENT OF**

Plainfield Rd 1#6 EX. INTERCONNECT TO BAILEY RD EX. INTERSECTION & SAMPLING (SYSTEM DETECTORS) PLAINFIELD RD EX. INTERSECTION & SAMPLING (SYSTEM DETECTORS) Plainfield Rd EX. INTERSECTION & SAMPLING (SYSTEM DETECTORS) **CABLE PLAN SCHEDULE OF QUANTITIES**

- EX. INTERSECTION

DETECTORS)

& SAMPLING (SYSTEM

PROP. INTERCONNECT

TRACER CABLE -

TO 75TH ST

EX.INTERCONNECT

CABLE (TO REMAIN)

ITEM DESCRIPTION

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION OUTDOOR RATED NETWORK CABLE

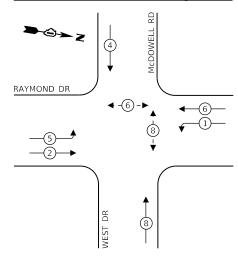
REMOTE CONTROLLED VIDEO SYSTEM LAYER II (DATALINK) SWITCH

MODIFY EXISTING CONTROLLER CABINET, SPECIAL ELECTRIC METER SOCKET

DUDOT

		,				, EMERGENCY VEHICLE	F.A. RTE.	SECTION	COUNTY	TOT
OF ILLINOIS	PREE		• -		_	LE OF QUANTITIES	VAR.	17-DCCSS-01-TL	DUPAGE	27
F TRANSPORTATION		PL/	<u> AINFIELD</u>	<u>rd and</u>	<u>CASS</u>	AVE			CONTRACT	NO.
	CCALE, NITC	CUEET 5	OF F	CHEETE	CTA	TO CTA				

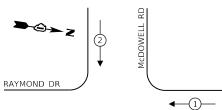
TOTAL = 1306.4

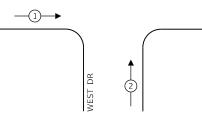


LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500.0
PTZ CAMERA	-	75	100	-
			TOTAL =	1156.0

ENERGY COSTS TO:

TS SHT NO. 142

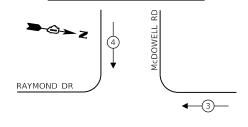
DUPAGE COUNTY D.O.T.

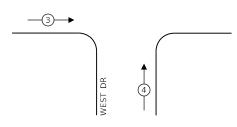
421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE





REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH CONTROLLER
1 EACH MASTER CONTROLLER

-(1#6)-TELEPHONE SERVICE **RAYMOND DR** EX. INTERCONNECT CABLE (TO REMAIN) TRACER CABLE PROP. INTERCONNECT TO DIEHL RD 1#6 WEST DR PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8

CABLE PLAN

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

THE CONTRACTOR SHALL MODIFY THE EMERGENCY VEHICLE PREEMPTION SEQUENCE AS SHOWN IN THE PLANS. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FULL-ACTUTATED CONTROLLER IN EXISTING CABINET.

SCHEDULE OF QUANTITIES

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

COUNTY



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
McDOWELL RD AND RAYMOND DR

F.A. SECTION
VAR. 17-DCCSS-01-TL

ENAME = pw:\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\W03 Centracs Expansion 2\CADD_Sheets\1100-sht-ts-cable.dgn

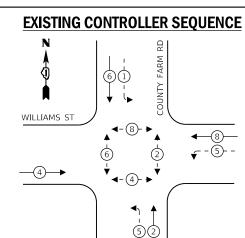
DUPAGE 277 150

CONTRACT NO. 61F05

DATE

PLOT DATE = 8/28/2018

REVISED



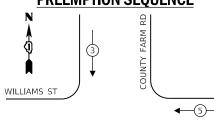
◆ PROTECTED PHASE

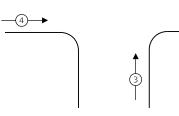
← - (*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

OL OVERIA

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	I NO. OF	l ren	70	IOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	12	10	10	12.0
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	2	250	50	250.0
PTZ CAMERA	1	75	100	75.0

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.

WHEATON, IL 60187
ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

SCHEDULE OF QUANTITIES

TOTAL QTY. <u>UNITS</u> ITEM DESCRIPTION MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH OUTDOOR RATED NETWORK CABLE FOOT 199 EACH REMOTE CONTROLLED VIDEO SYSTEM EACH LAYER II (DATALINK) SWITCH FULL-ACTUATED CONTROLLER IN EXISTING CABINET EACH MODIFY EXISTING CONTROLLER CABINET, SPECIAL EACH EACH ELECTRIC METER SOCKET

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM AND SHALL BE NTCIP (LATEST VERSION).

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

NOTEC

- 1 EXISTING RADAR DETECTION EQUIPMENT IS TO REMAIN IN USE.
- 2 TRAFFIC SIGNAL CONTROLLER IS TO BE CONNECTED TO SERIAL COMMUNICATIONS VIA EXISTING FIBER TRANSCEIVER.

DUDOT



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRACER CABLE -

EX. INTERCONNECT - CABLE (TO REMAIN)

WILLIAMS ST

PROP. INTERCONNECT TO MANCHESTER RD

EX. INTERCONNECT — CABLE (TO REMAIN)

TO IL RTE 38

PROP. INTERCONNECT -

COUNTY FARM RD

CABLE PLAN

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

SHEET 2 OF 3 SHEETS STA TO STA

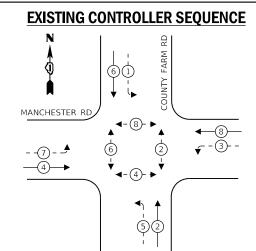
SECTION COUNTY TOTAL SHEETS NO.

R. 17-DCCSS-01-TL DUPAGE 277 152

CONTRACT NO. 61F05

FILE NAME = pw:\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 80-sht-ts-cable.dgn
Default

TOTAL = 914.8



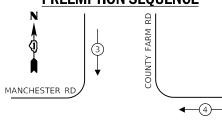
←(*)— PROTECTED PHASE

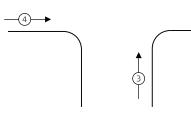
← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

OL OVERLA

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

NO. OF	l LED	%	TOTAL
LAMPS	WATTAGE	OPERATION	WATTAGE
12	11	50	66.0
12	20	5	12.0
12	12	45	64.8
16	10	10	16.0
16	20	100	320.0
1	100	100	100.0
1	25	100	25.0
-	150	100	-
-	25	5	-
-	-	50	
-	120	50	-
2	250	50	250.0
-	75	100	-
		TOTAL =	853.8
	12 12 12 16 16 1 1	LAMPS WATTAGE 12 11 12 20 12 12 16 10 16 20 1 100 1 25 - 150 - 25 - 120 2 250	LAMPS WATTAGE OPERATION 12 11 50 12 20 5 12 12 45 16 10 10 1 100 100 1 25 100 - 150 100 - 25 5 - - 50 - 120 50 2 250 50 - 75 100

ENERGY COSTS TO:

TS SHT NO. 145

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

SCHEDULE OF QUANTITIES

TOTAL QTY. UNITS ITEM DESCRIPTION

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4 EACH GROUNDING EXISTING HANDHOLE FRAME AND COVER
750 FOOT ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1 EACH ELECTRIC METER SOCKET

TRACER CABLE — EXISTING LOCAL AND MASTER CONTROLLER TO REMAIN. MASTER OPERATES SYSTEM ALONG COUNTY FARM RD AND IL 38, BETWEEN WILLIAMS ST AND SADDLE RD/ADARE DR. **MANCHESTER RD COUNTY FARM RD** PROP. INTERCONNECT TO WILLIAMS ST TRACER CABLE EX. INTERCONNECT CABLE (TO REMAIN)

EX. INTERCONNECT -TO MAIN ENTRANCE DUPAGE COUNTY GOV. CENTER

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

DUDOT

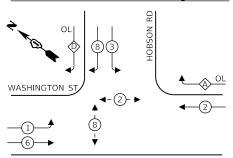


JSER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

ENTS SHEET 3 OF 3 SHEETS STA. TO STA.



LEGEND:

◆ * PROTECTED PHASE

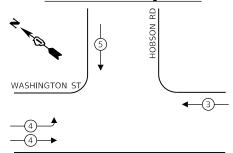
← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	8	10	10	8.0
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	3	120	50	180.0
LUMINAIRE	-	-	-	-
PTZ CAMERA	-	75	100	-
			TOTAL =	559.6

ENERGY COSTS TO:

TS SHT NO. 146

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

CONTRACTOR SHALL UTILIZE EXISTING 50' OF 24 SM FIBER OPTIC CABLE SLACK LOCATED IN DOUBLE HANDHOLE FOR CONNECTION TO CONTROLLER AT HOBSON RD - EX. INTERCONNECT CABLE (TO REMAIN) 1#6 - TRACER CABLE PROP. INTERCONNECT TO 75TH (SEE INTERCONNECT SCHEMETIC **WASHINGTON ST** Hobson Rd Hobson Rd TRACER CABLE-EX. INTERCONNECT CABLE-TO GARTNER RD

CABLE PLAN (NOT TO SCALE)

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	<u>ITEM DESCRIPTION</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

DUDOT



JSER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION COUNTY PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 17-DCCSS-01-TL DUPAGE 277 154 VAR. WASHIGTON ST AND HOBSON RD
ET 1 OF 1 SHEETS STA. CONTRACT NO. 61F05

LEGEND:

◆ PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

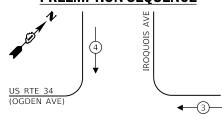
RIGHT TURN OVERLAP

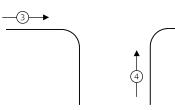
OVERLAP	PERMISSIVE	PROTECTE
LETTER	PHASE	PHASE
_		_

PHASE DESIGNATION:

OVERLAP	PERMISSIVE	PROTECTE
LETTER	PHASE	PHASE
		_

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL

ELECTRICAL SERVICE REQUIREMENTS

14

14

12

WATTAGE

11

12

10

20

100

25

150

120

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

CONTROLLER AND CABINET (COMPLETE)

SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

US RTE 34 (OGDEN AVE)

CABLE PLAN (NOT TO SCALE)

IROQUOIS AVE

SCHEDULE OF QUANTITIES

TOTAL QTY.	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
7	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM
1	EACH	ELECTRIC METER SOCKET

IDOT TS 9495

DUPAGE 277 155

CONTRACT NO. 61F05

COUNTY

- TRACER CABLE

- EX. INTERCONNECT CABLE (TO REMAIN)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT

FOR THIS PROJECT SHALL BE NTCIP (LATEST

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

PROP. INTERCONNECT

TO NAPERVILLE-WHEATON RD

"D"

VERSION).



ENERGY SUPPLY: CONTACT: MR. JOE STACHO

JSER NAME = dwiktorzak DESIGNED - DW REVISED DRAWN - RG REVISED CHECKED - ZH REVISED REVISED PLOT DATE = 8/28/2018 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES VAR. 17-DCCSS-01-TL US RTE 34 (OGDEN AVE) AND IROQUOIS AVE

v:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 52-sht-ts-cable.dgm

OPERATION

50

45

10

100

100

100

50

100

TOTAL =

WATTAGE

77.0

14.0

75.6

12.0

160.0

100.0

25.0

463.6

TS SHT NO. 147

SIGNAL

UPS

PED. SIGNAL

CONTROLLER

VIDEO SYSTEM

FLASHER STREET NAME SIGN

LUMINAIRE PTZ CAMERA

BLANK-OUT SIGN

ENERGY COSTS TO: **CITY OF NAPERVILLE**

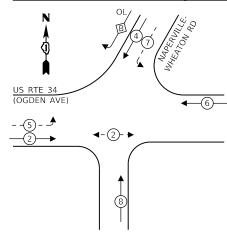
400 S. EAGLE ST. NAPERVILLE, IL 60540

(RED)

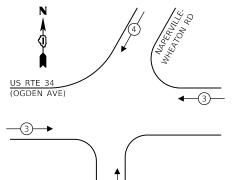
(YELLOW)

(GREEN)

PERMISSIVE ARROW



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
PERMISSIVE ARROW	12	10	10	12.0
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	=
LUMINAIRE	-	-	-	-
PTZ CAMERA	-	75	100	-
			TOTAL =	355.5

ENERGY COSTS TO:

TS SHT NO, 148

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS/DISTRICT 1 201 WEST CENTER COURT/ SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MR. DAVE SCHACHT

PHONE: (630)-437-2129
COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

LEGEND:

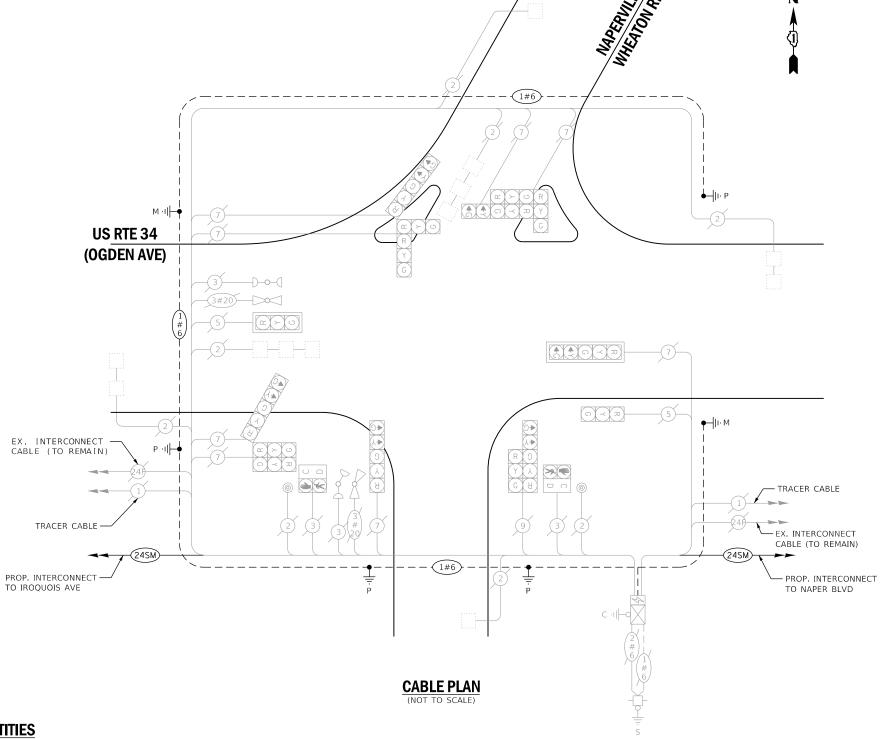
◆ * PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

◄- *- > PEDESTRIAN PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP	PERMISSIVE	PROTECTE
LETTER	PHASE	PHASE



SCHEDULE OF QUANTITIES

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

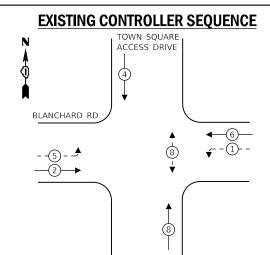
IDOT TS 10555



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

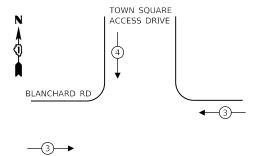
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SECTION 17-DCCSS-01-TL DUPAGE 277 156 CONTRACT NO. 61F05



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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	8	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	-
LUMINAIRE	-	-	-	-
PTZ CAMERA	-	75	100	-
			TOTAL =	292.0

ENERGY COSTS TO:

CITY OF WHEATON

303 W WESLEY STREET

TS SHT NO. 149

WHEATON, IL 60187
ENERGY SUPPLY: CONTACT: MR. JOE STACHO

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

ACCOUNT NUMBER:___



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/28/2018	DATE -	REVISED -

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH CONTROLLER AND CABINET (COMPLETE)

SCHEDULE OF QUANTITIES

TOTAL QTY.	<u>UNITS</u>	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
9	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	ELECTRIC METER SOCKET

BLANCHARD RD

TRACER CABLE

EX. INTERCONNECT -

PROP. INTERCONNECT -TO NAPERVILLE RD

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

CABLE (TO REMAIN)

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

DUDOT

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
BLANCHARD RD AND TOWN SQUARE ACCESS DR

ENTS SHEET 1 OF 1 SHEETS STA. TO STA.

TOWN SQUARE ACCESS DRIVE

IAME = pw:\\PW1.dlzcorp.com:DLZ\Documents\Projects\2017\1782\2130\WO2 Centracs Expansion 1\CADD_Sheets\Int 82-sht-ts-cable.dgn

17-DCCSS-01-TL

75TH ST

TO STA.

SHEET 1 OF 81 SHEETS STA.

SCALE: 1"=50'

DUPAGE 277 158

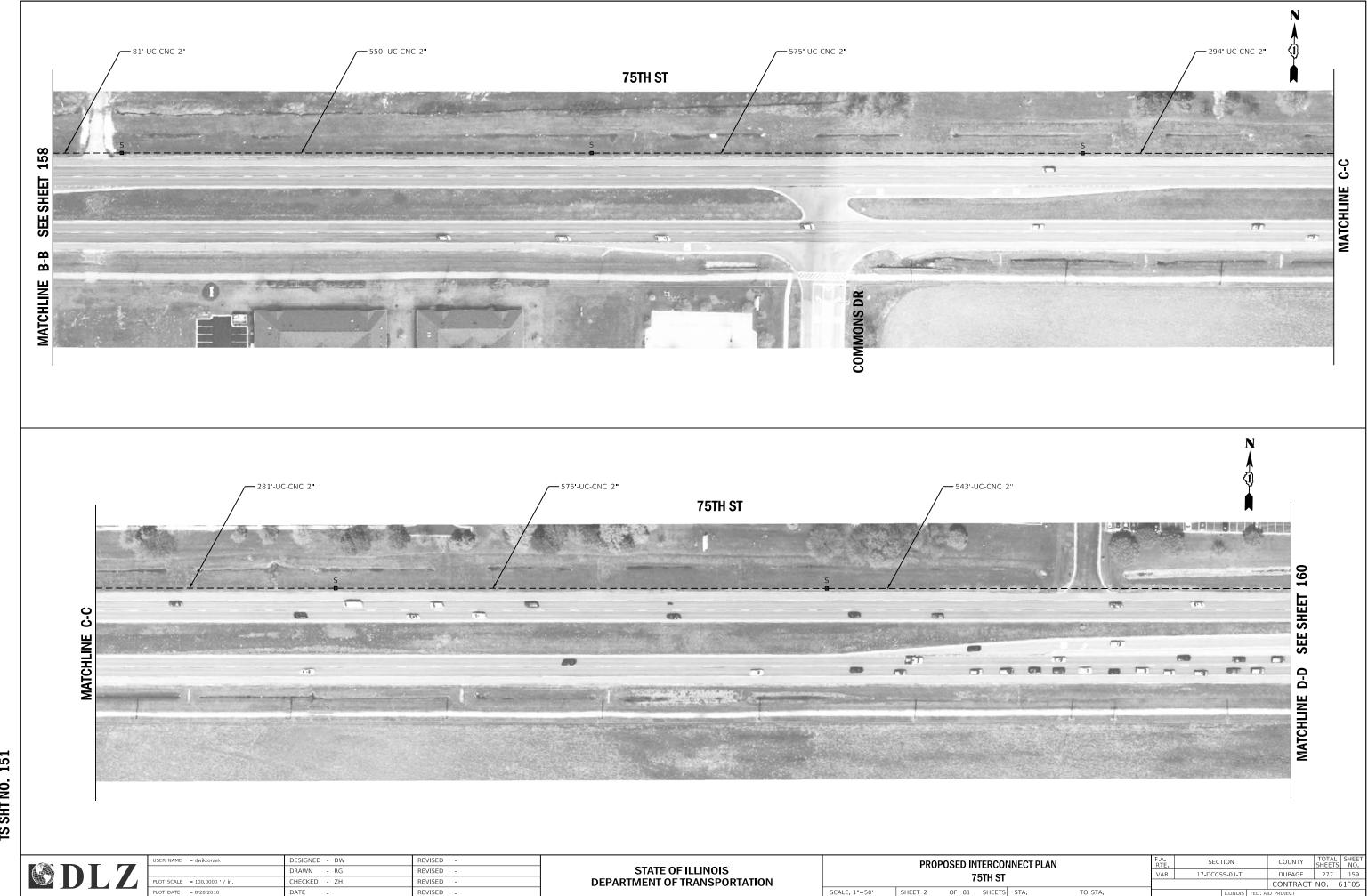
CONTRACT NO. 61F05

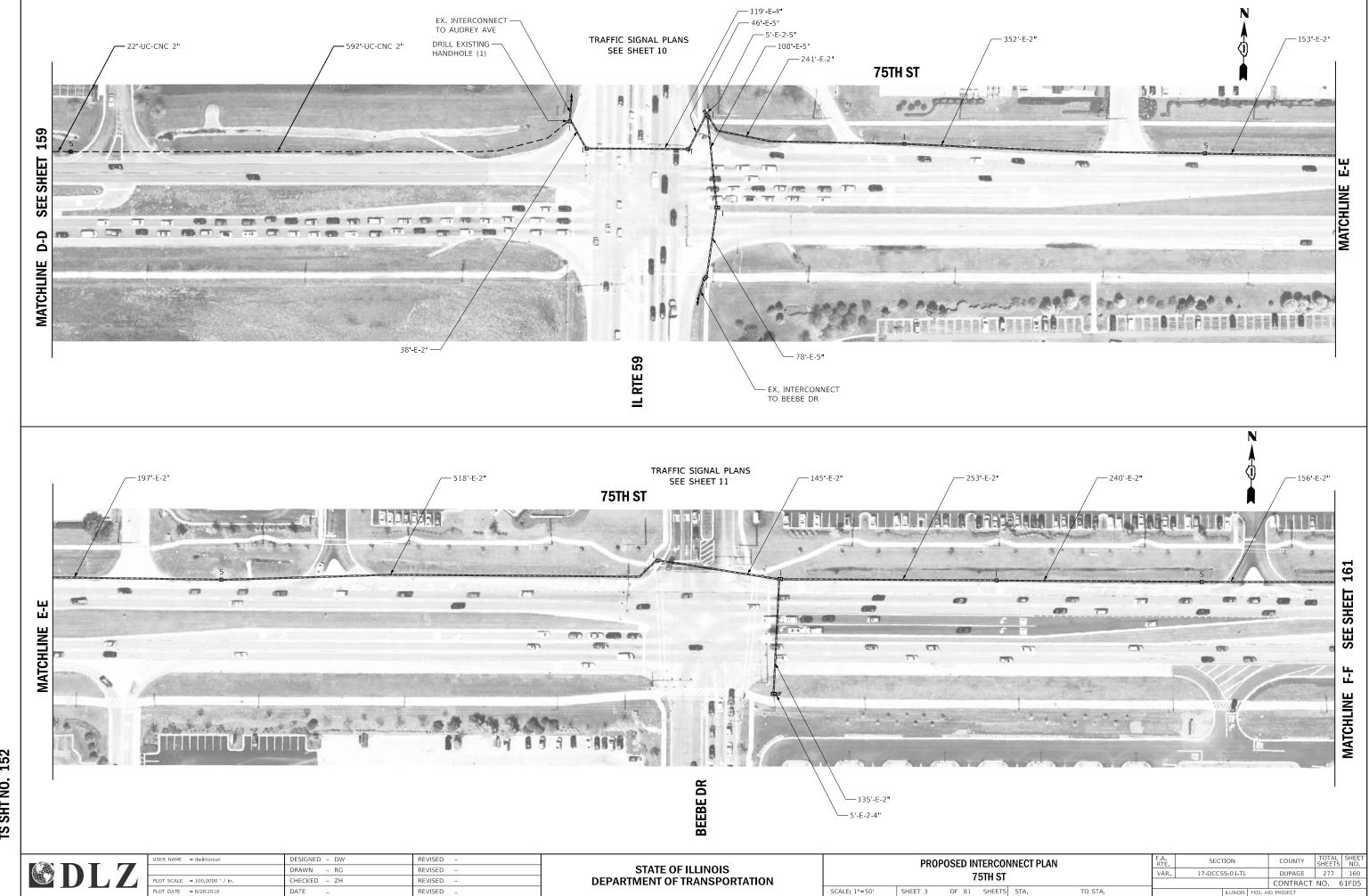
PLOT DATE = 8/28/2018

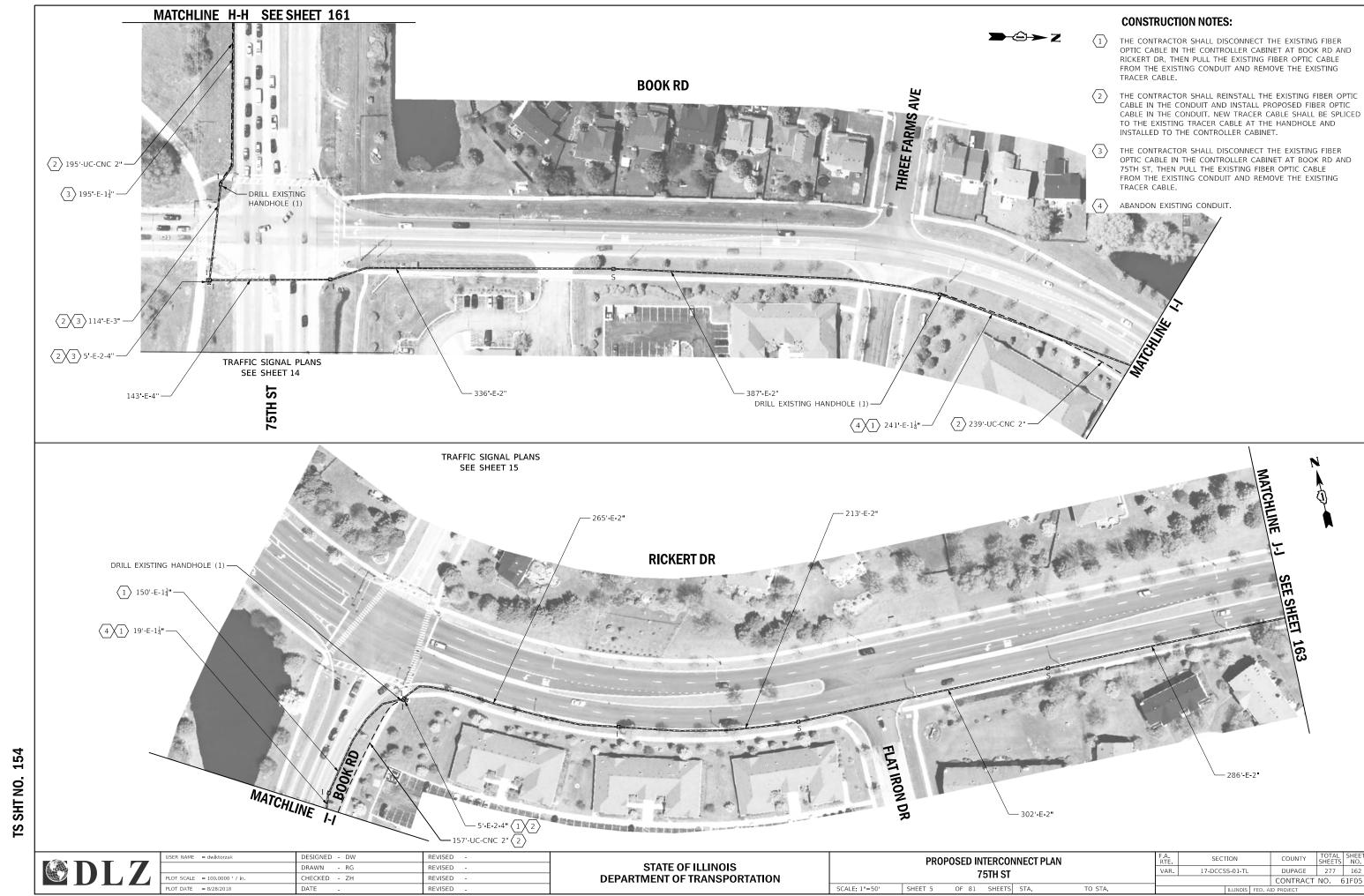
CHECKED - ZH

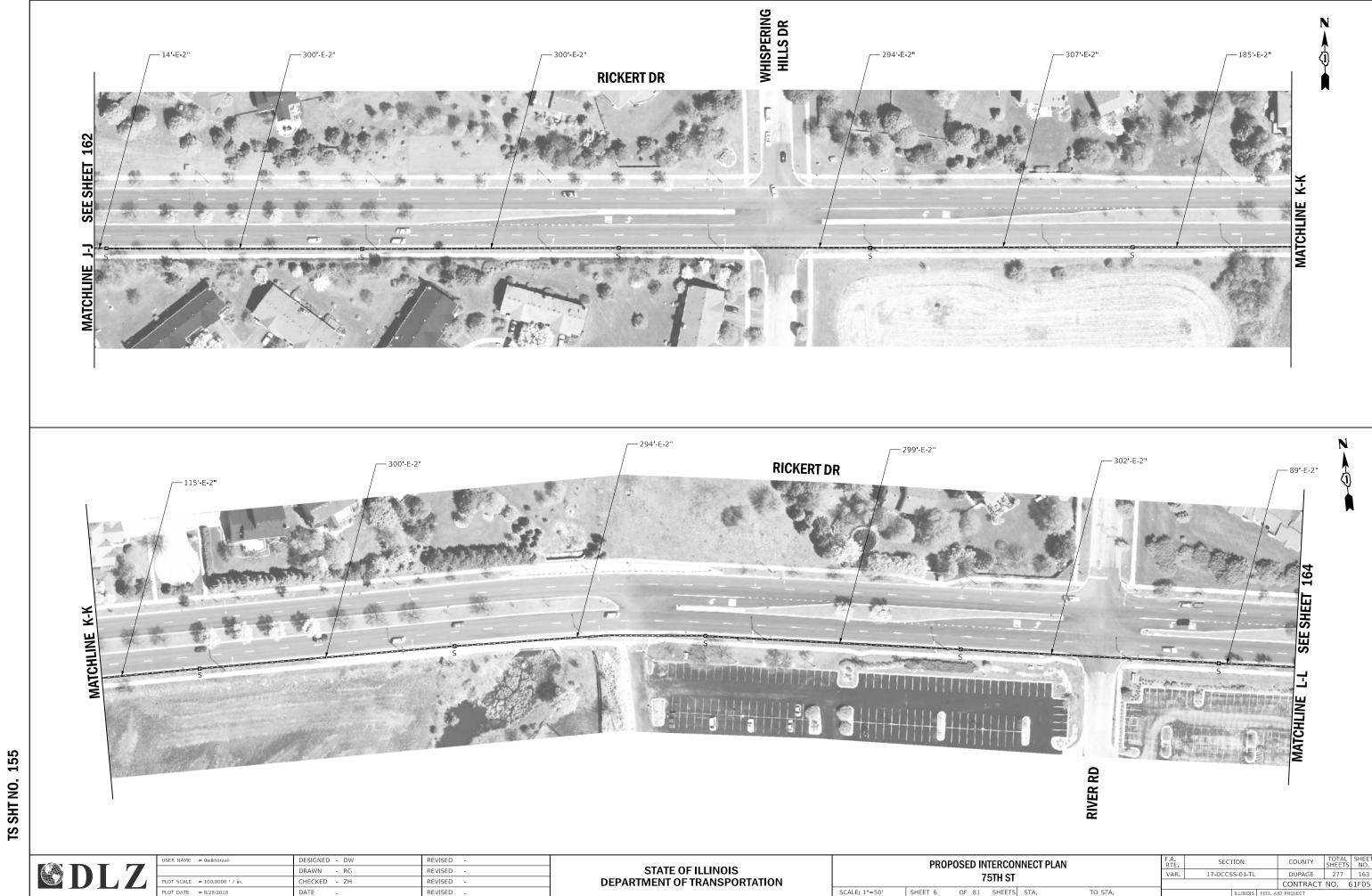
DATE

REVISED

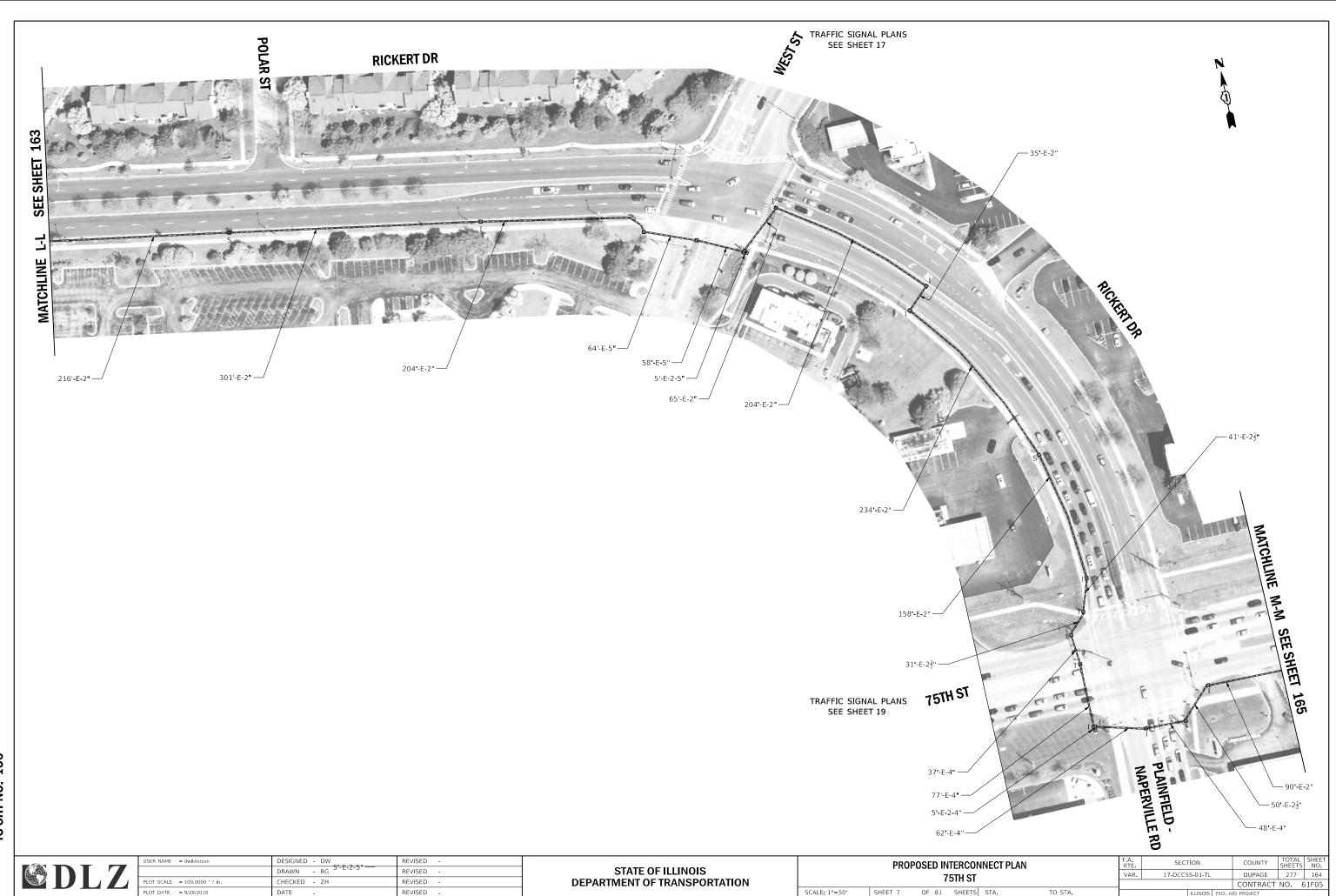


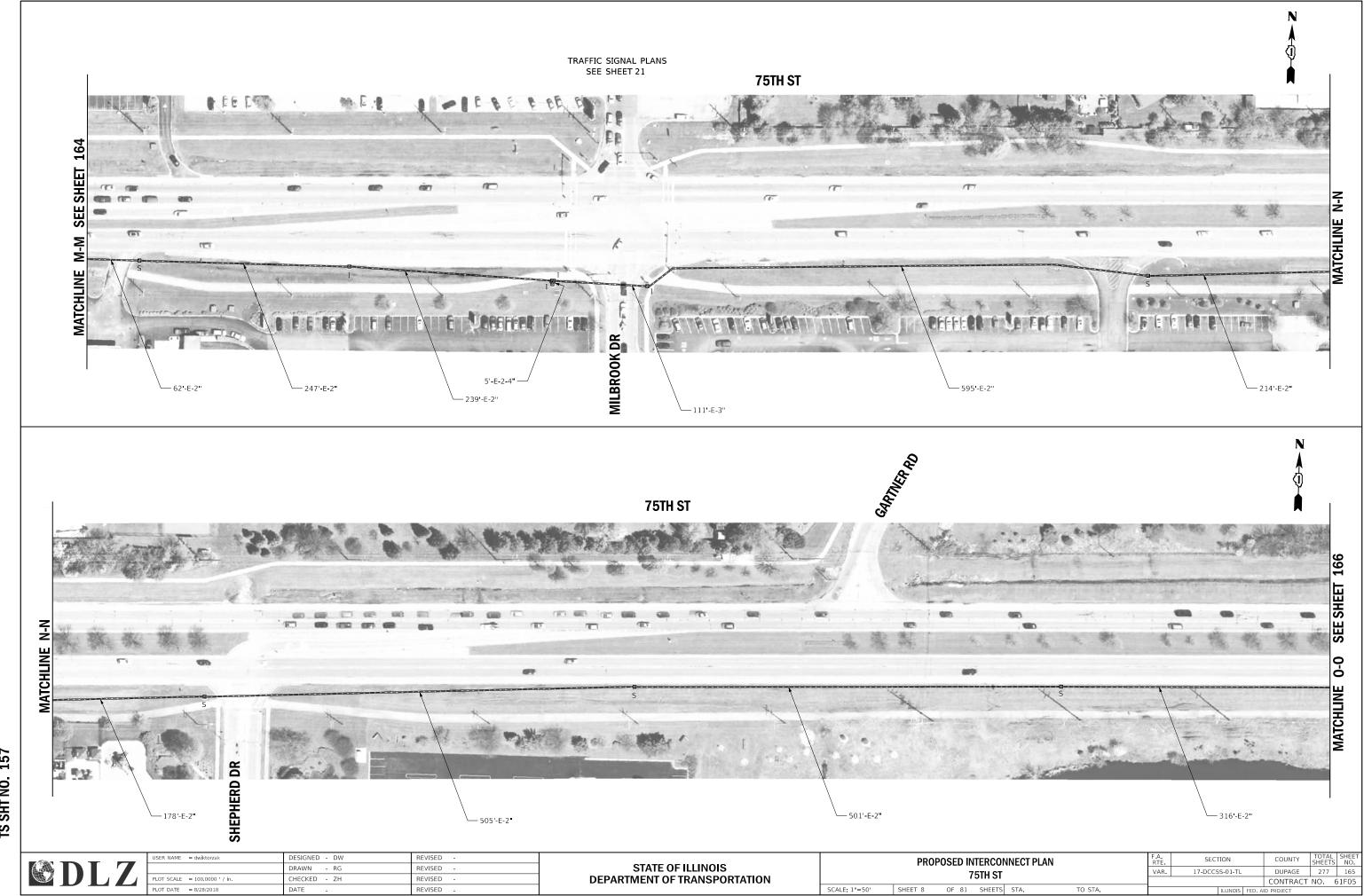


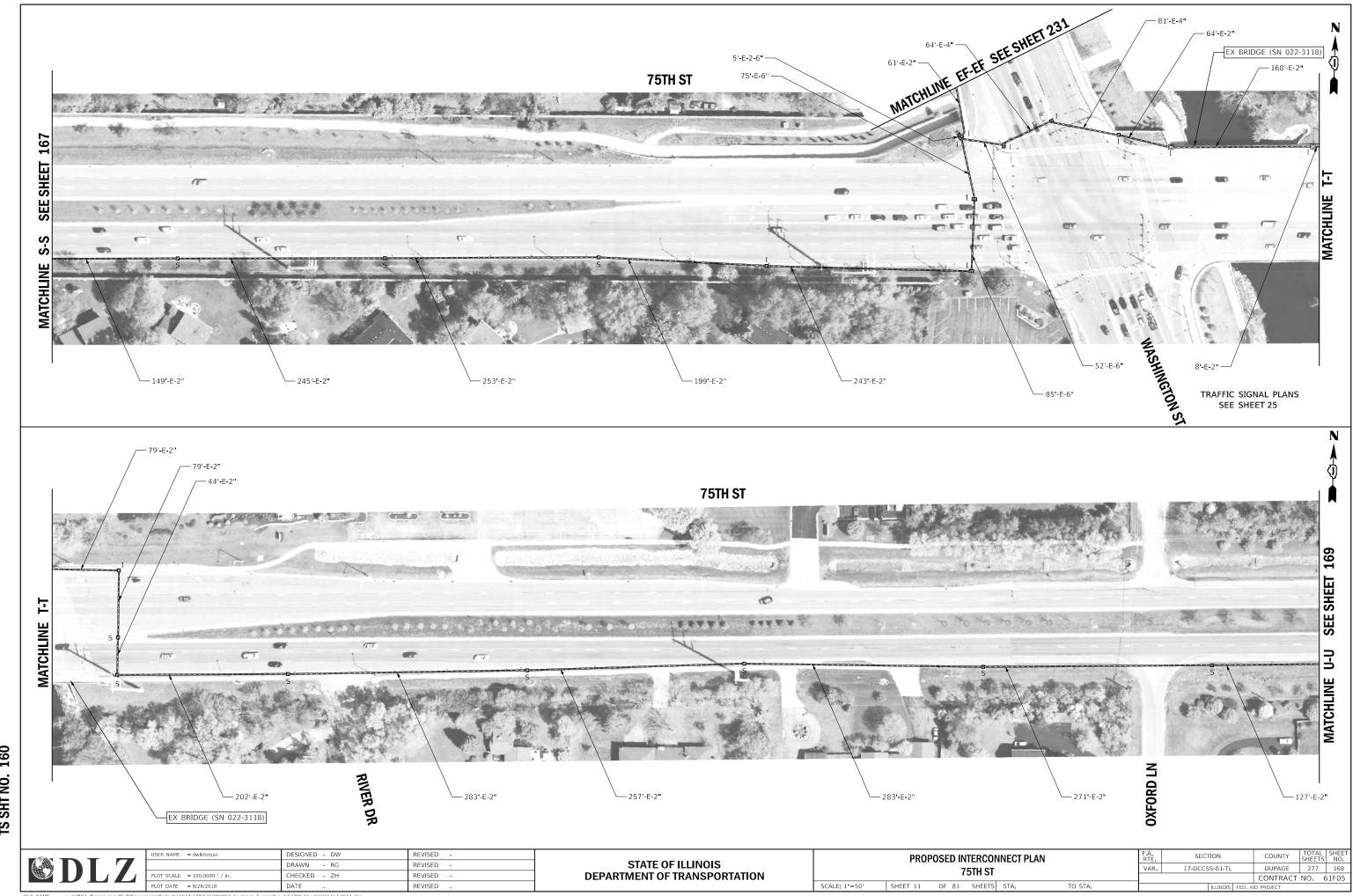


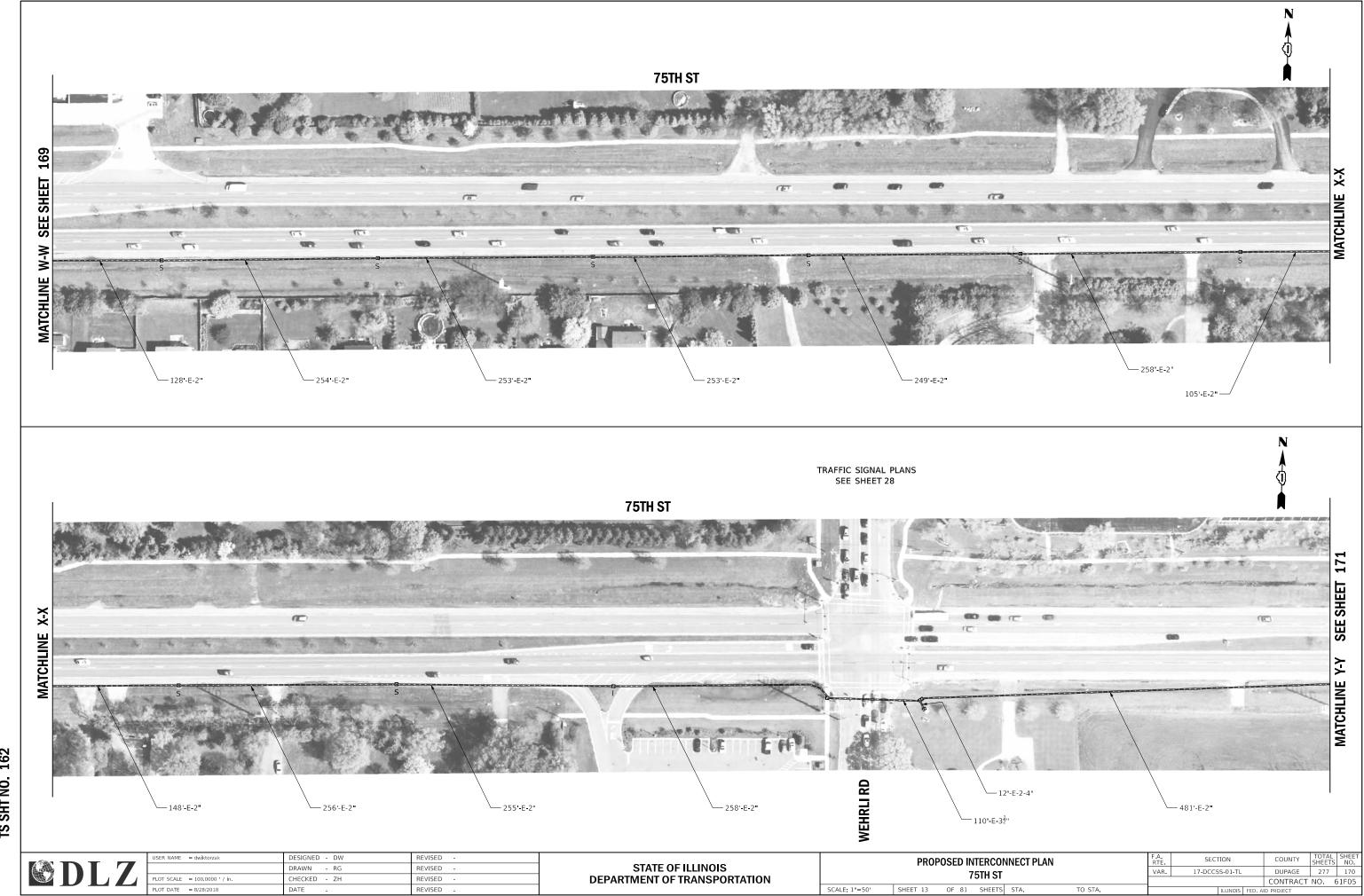


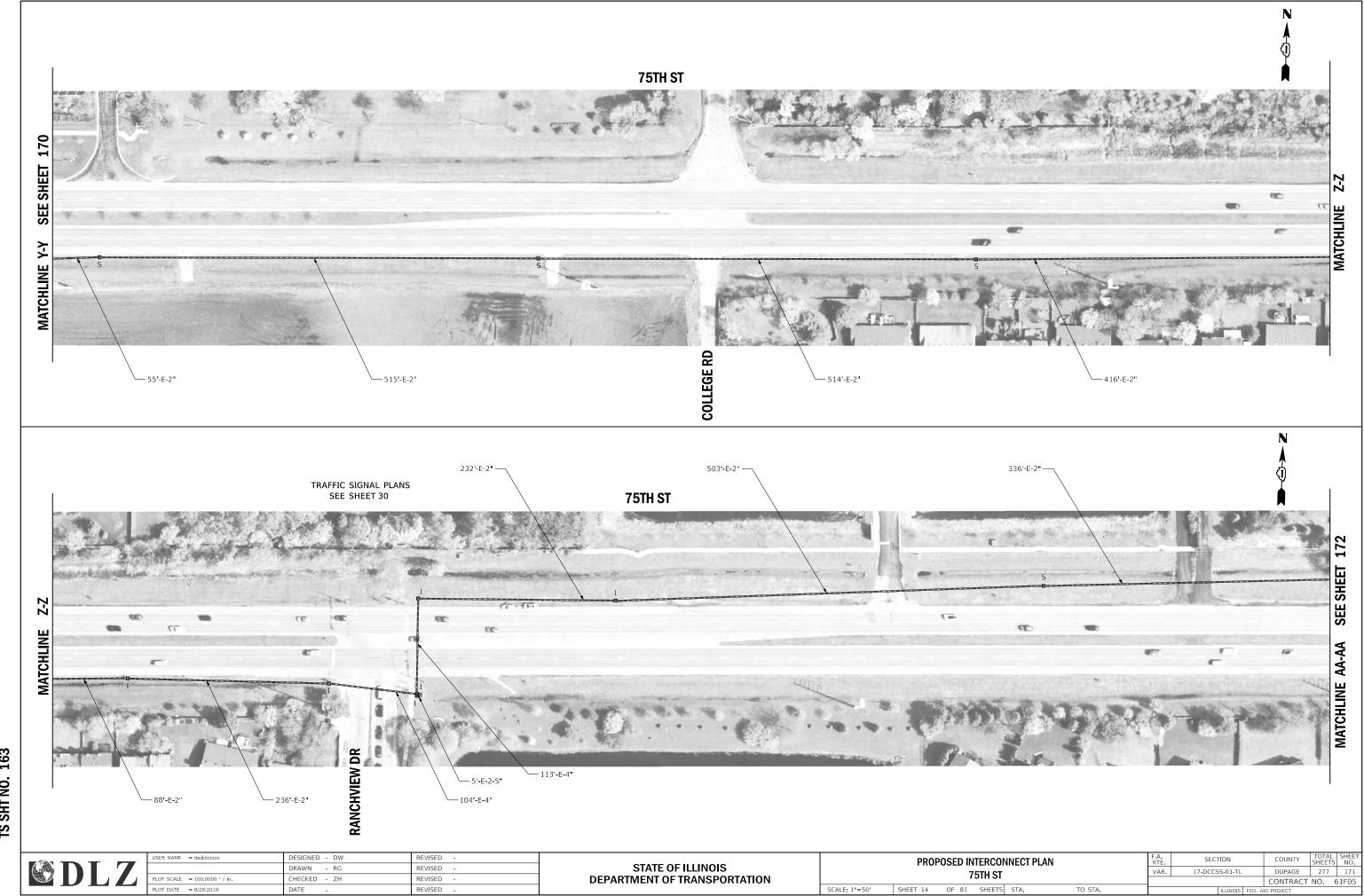


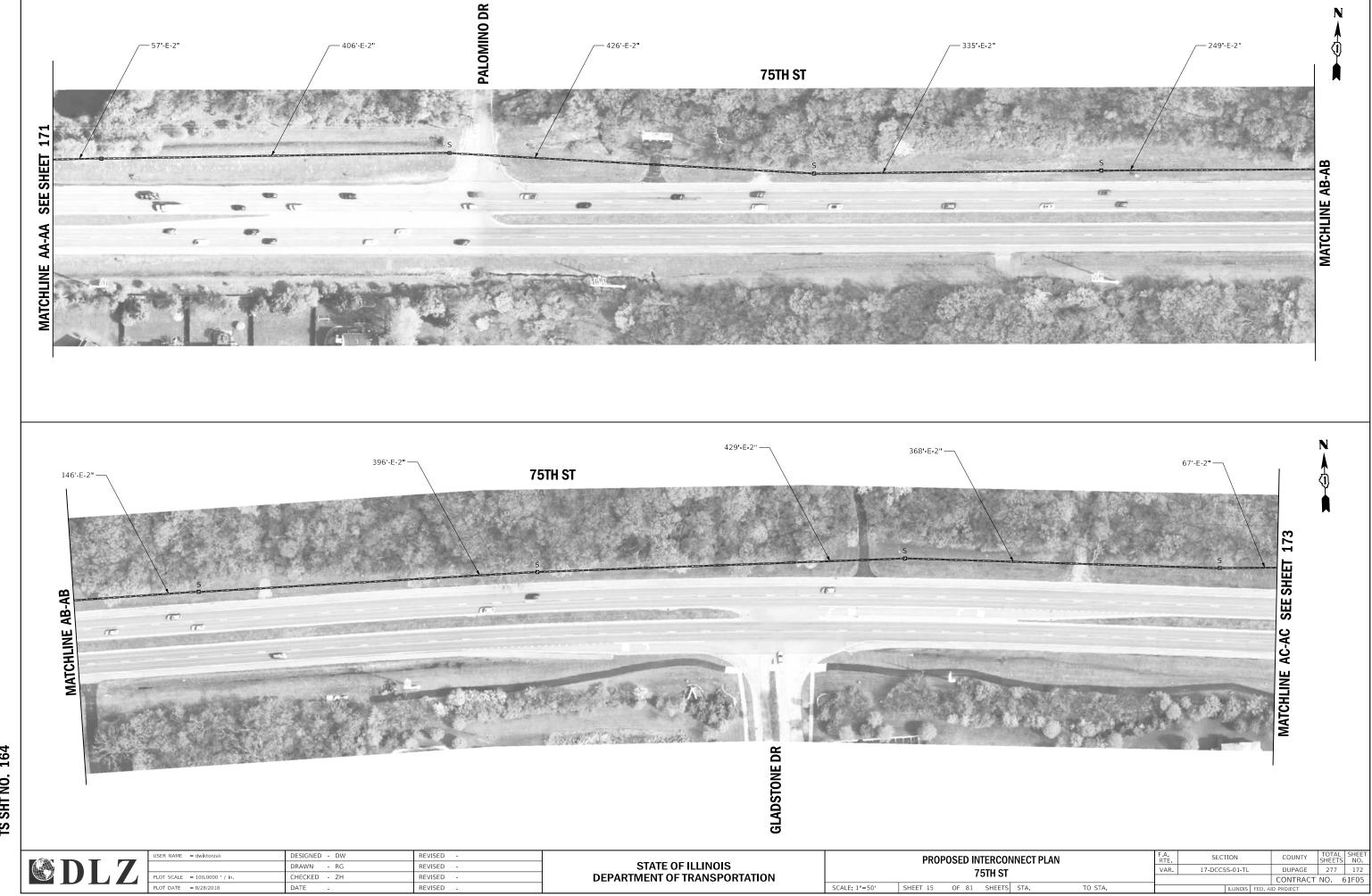


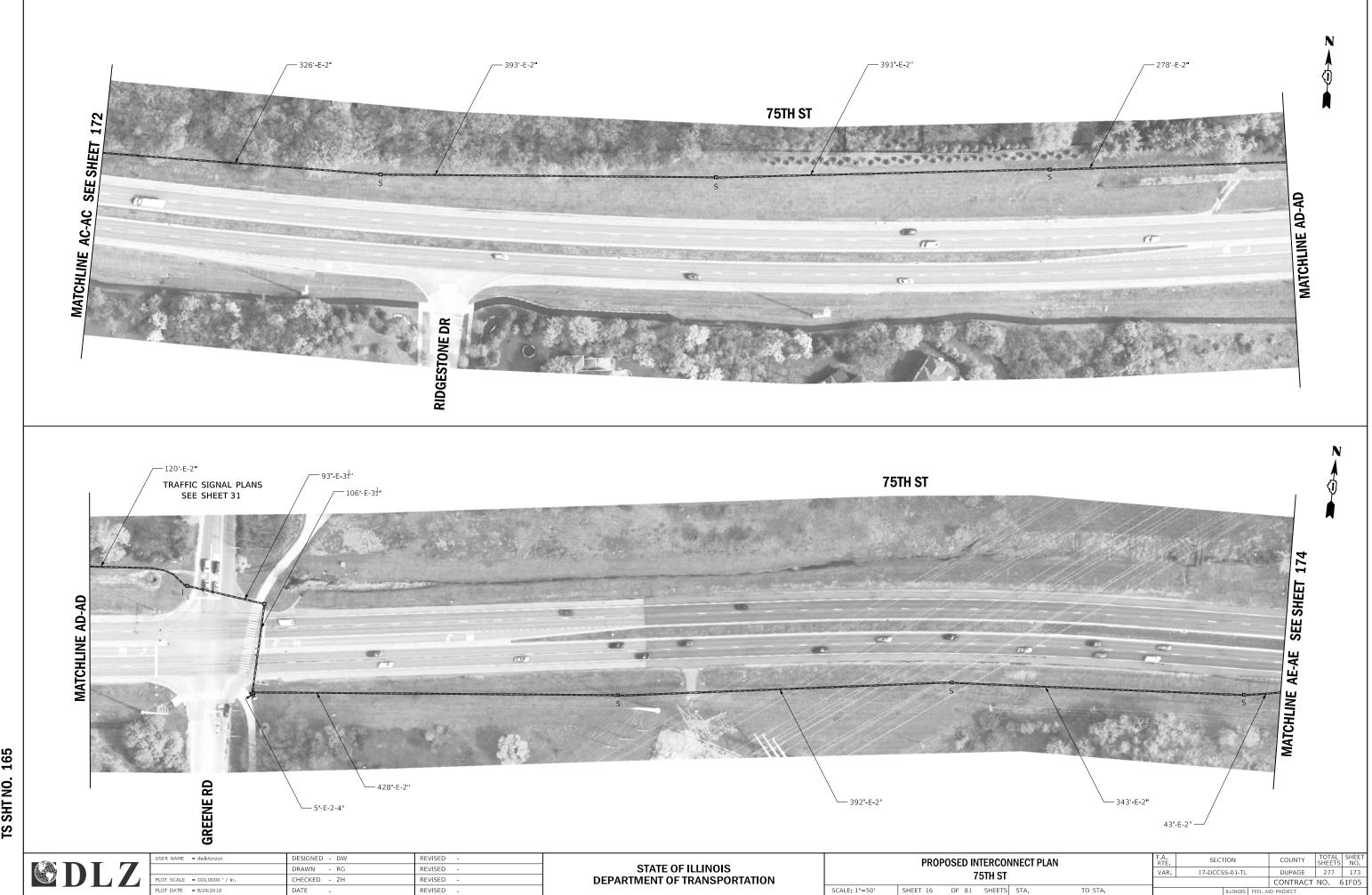


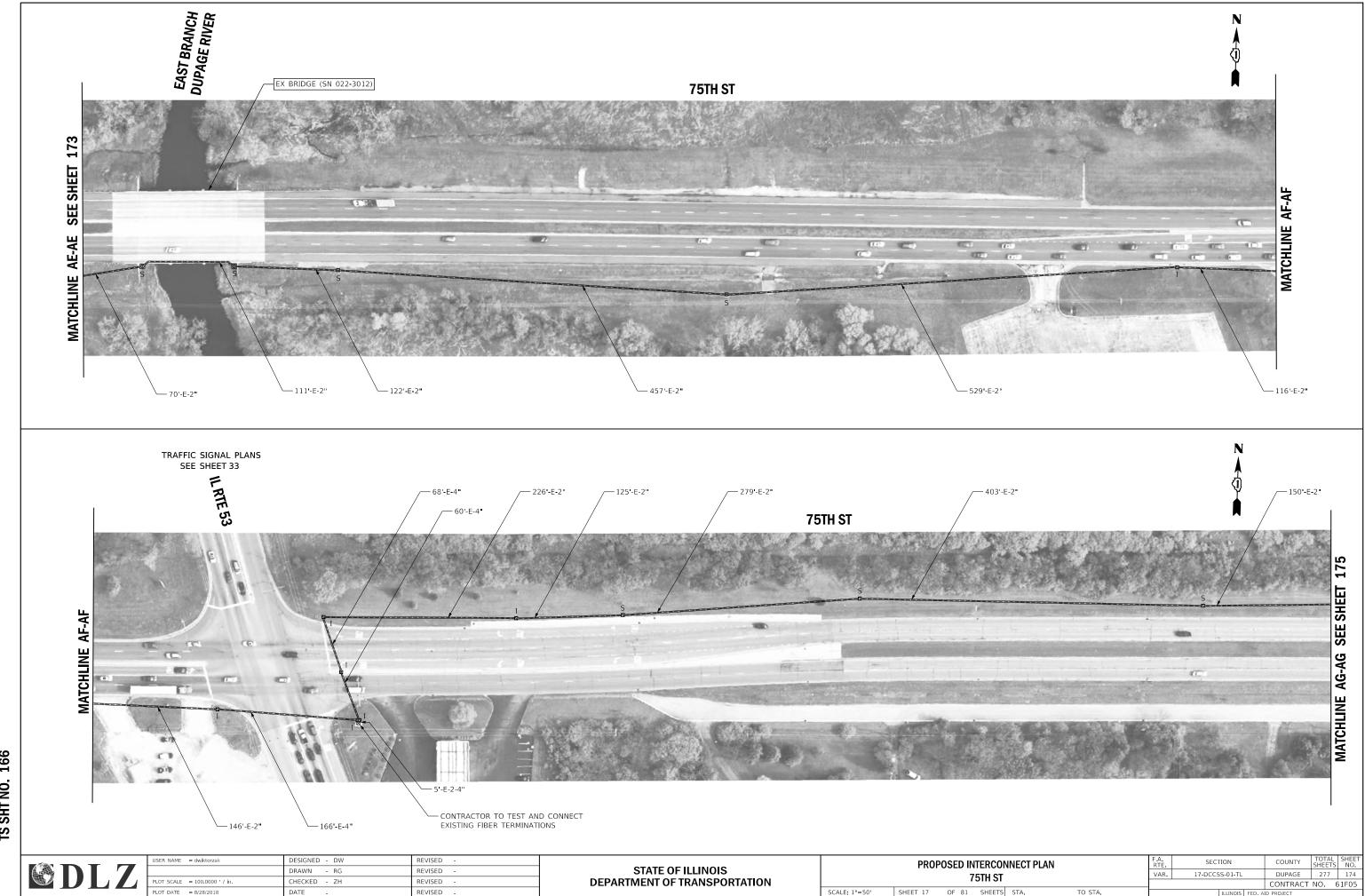


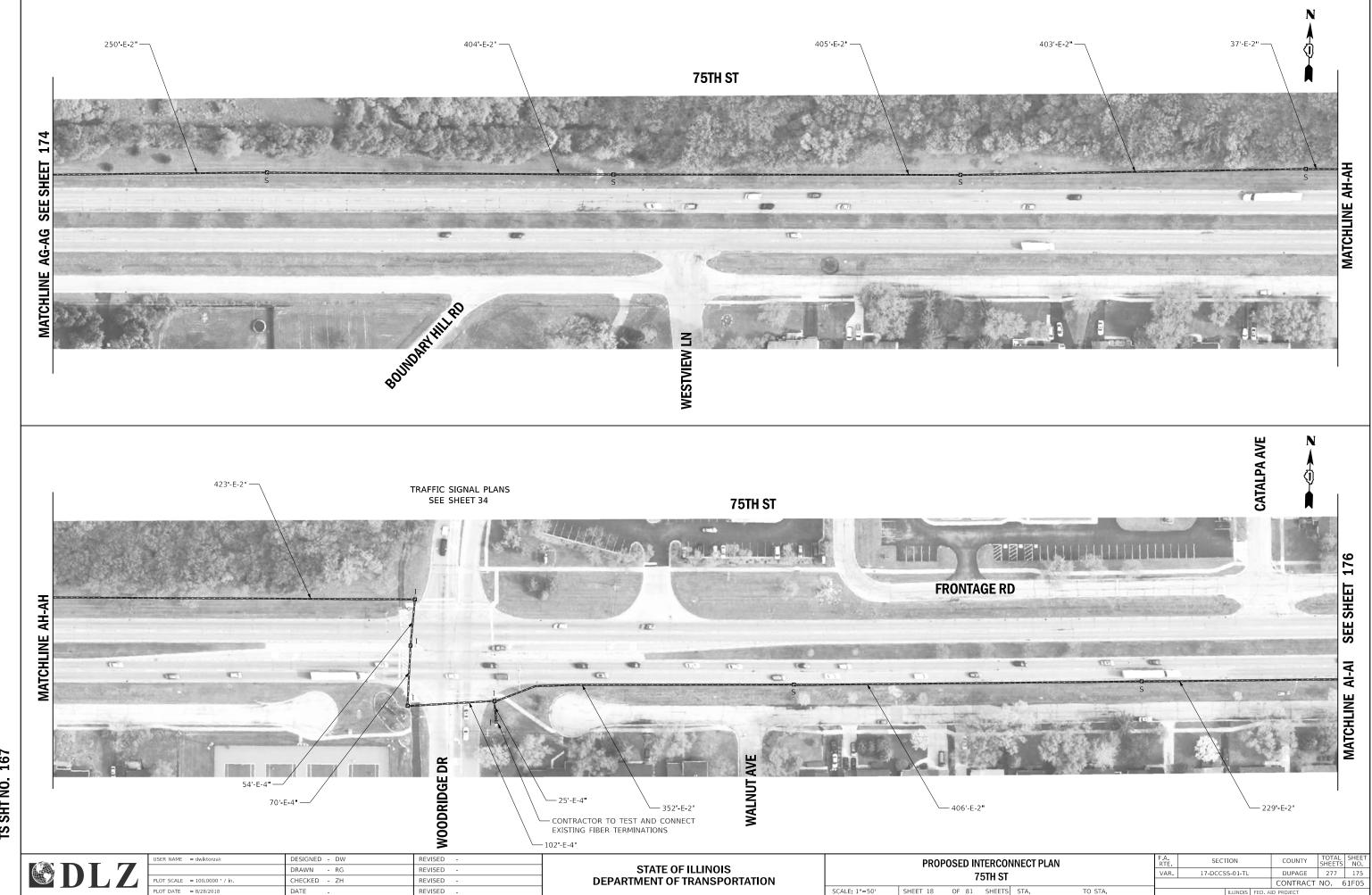




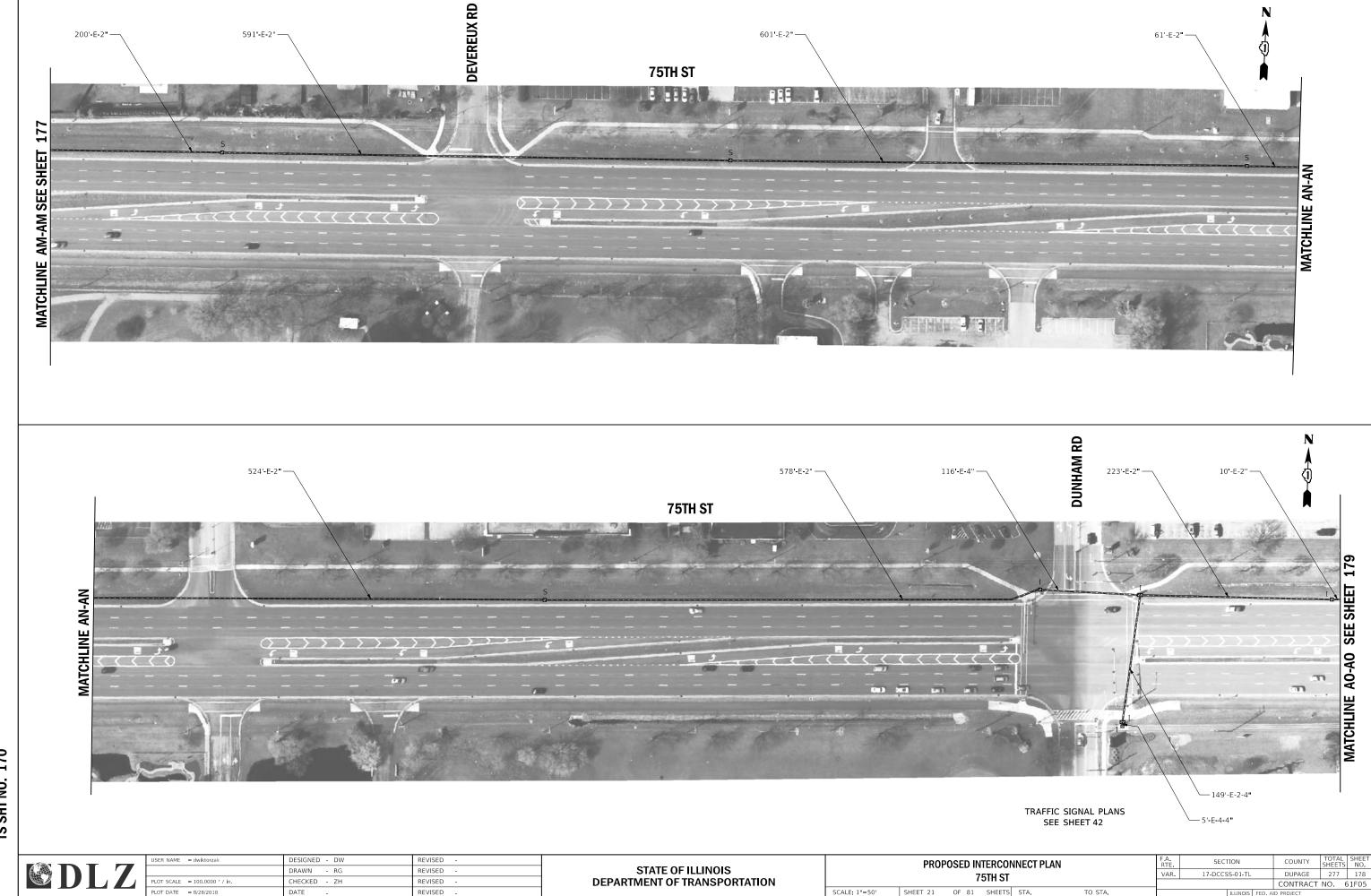


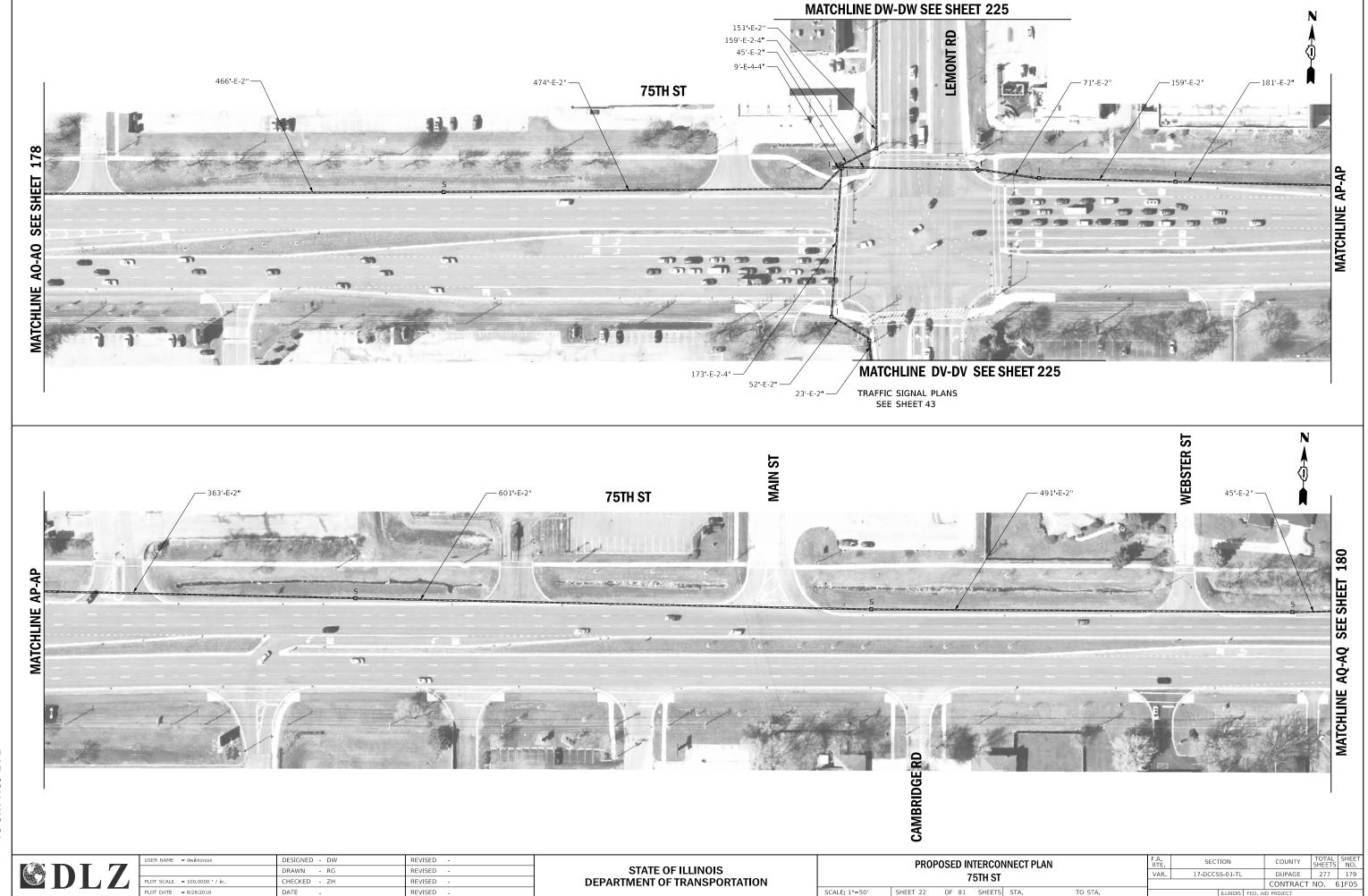


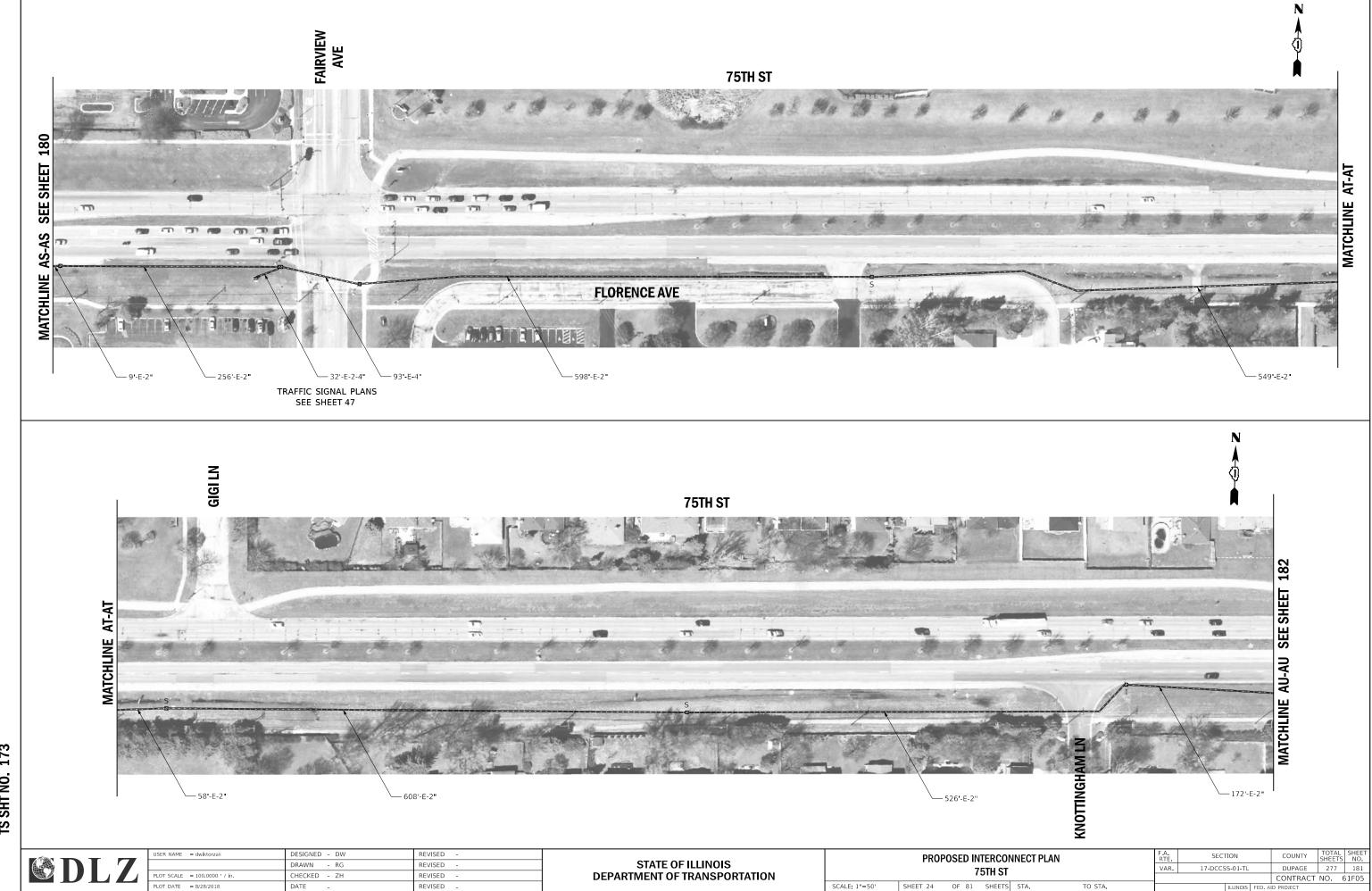


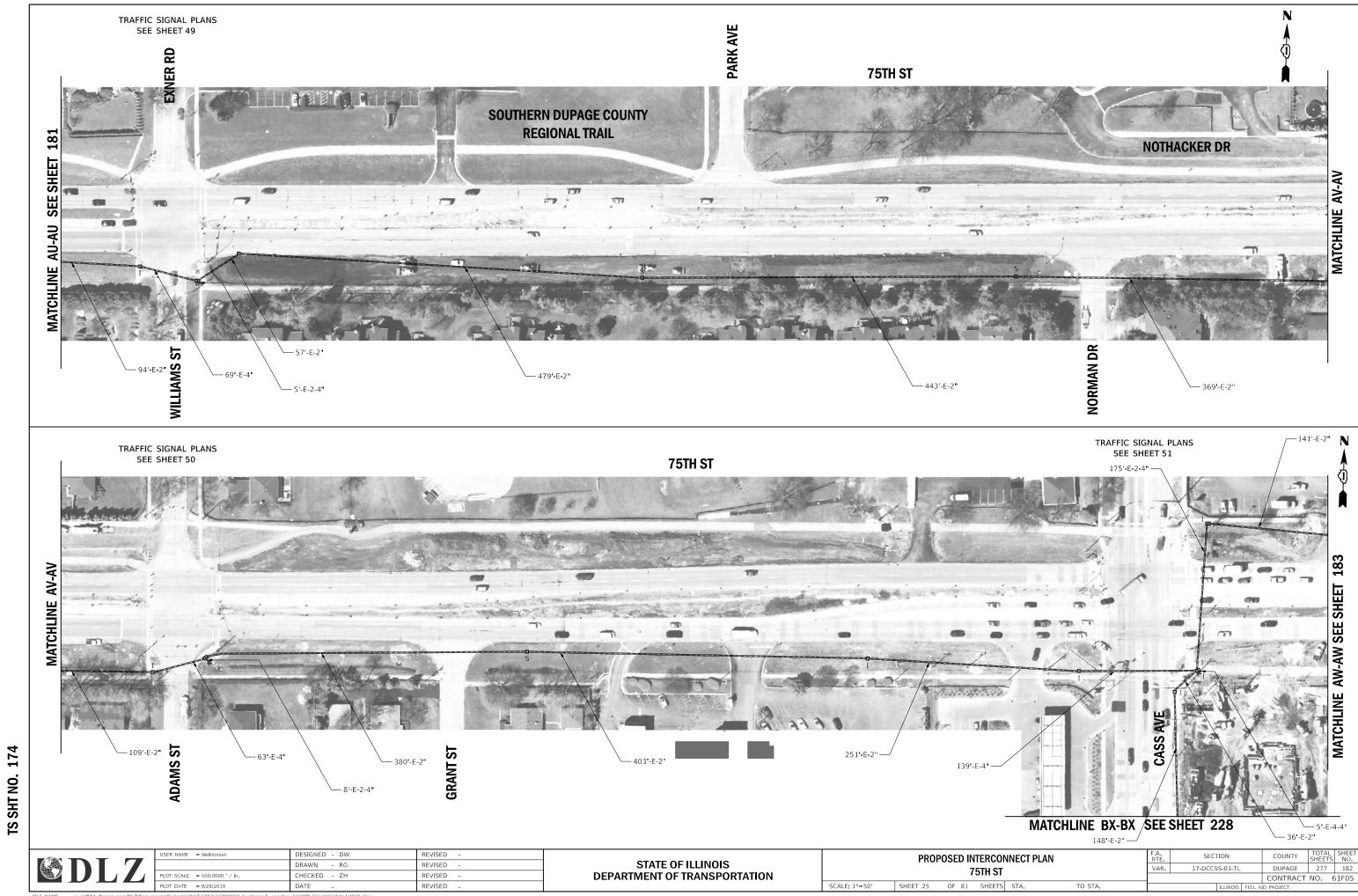


DATE

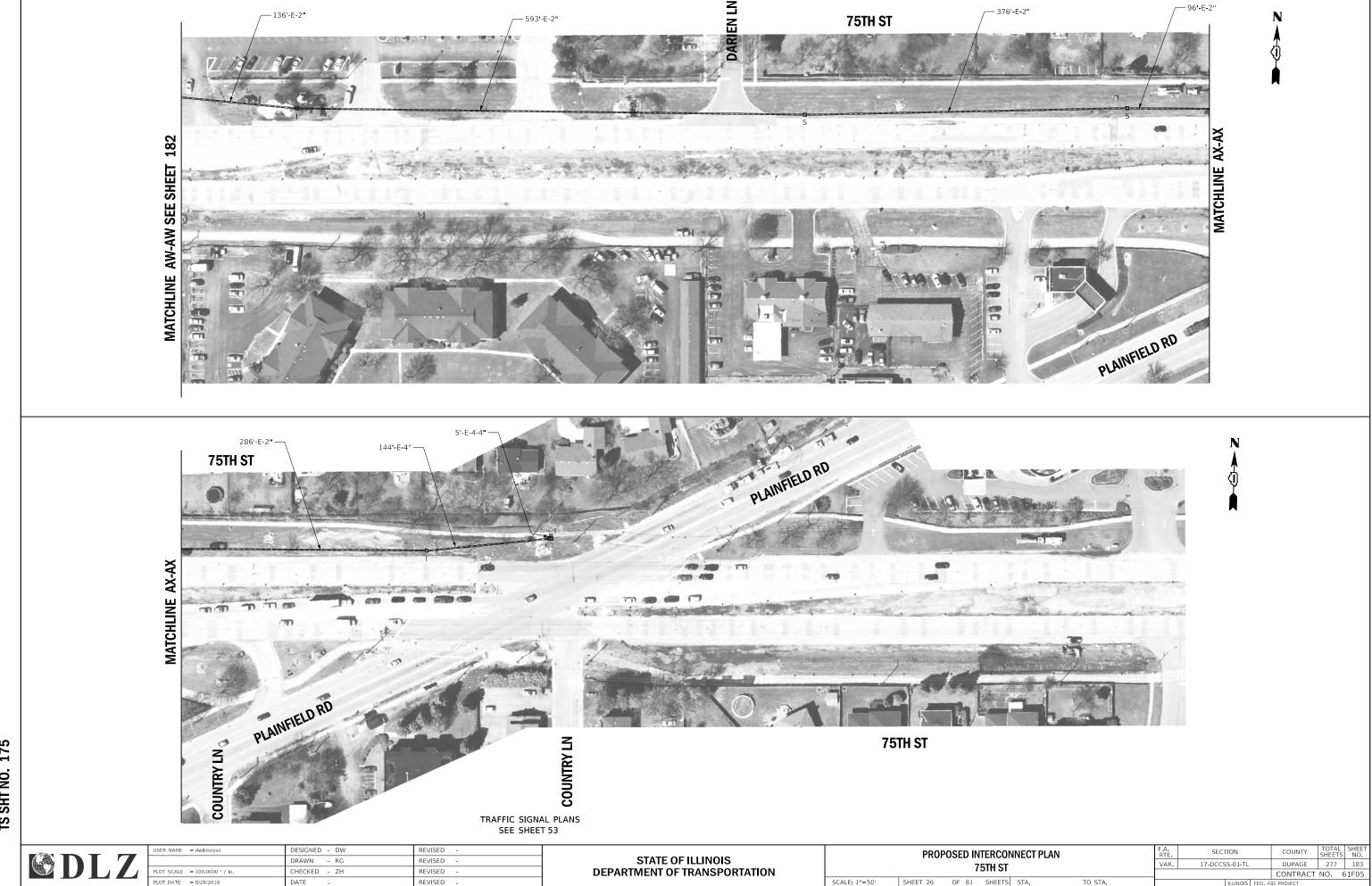


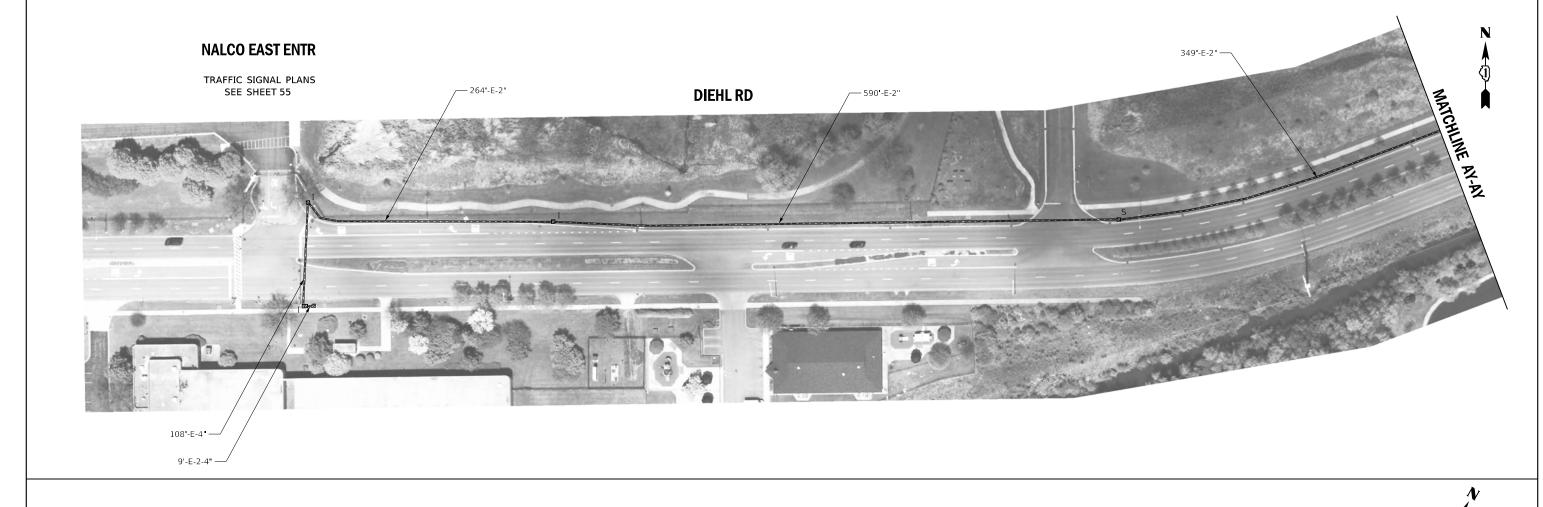


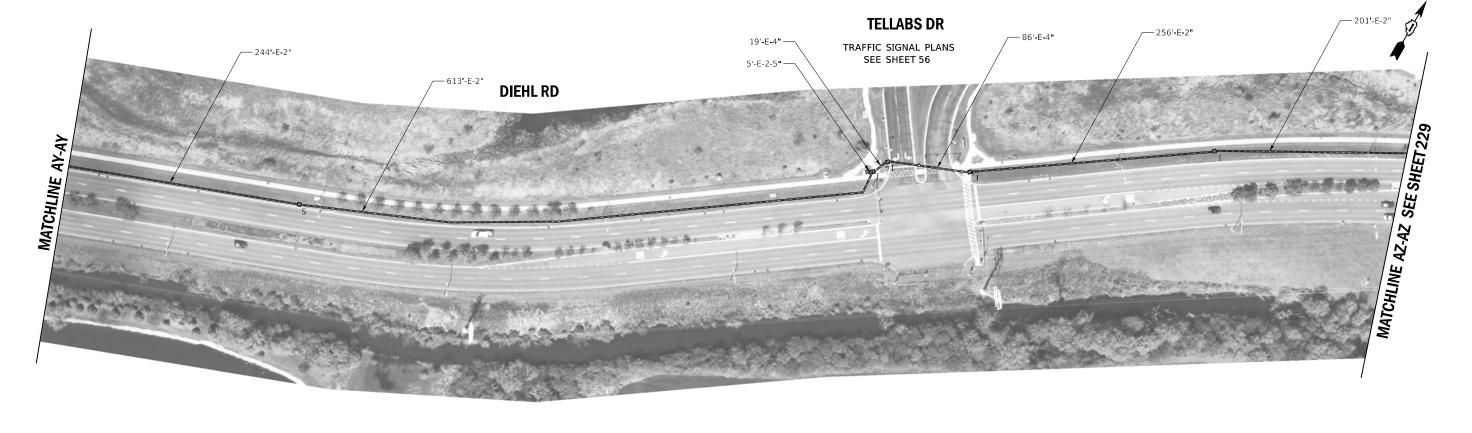












_	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	
'		DRAWN - RG	REVISED -	
1	PLOT SCALE = 100.0000 ' / in.	CHECKED - ZH	REVISED -	
-	PLOT DATE = 8/28/2018	DATE -	REVISED -	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

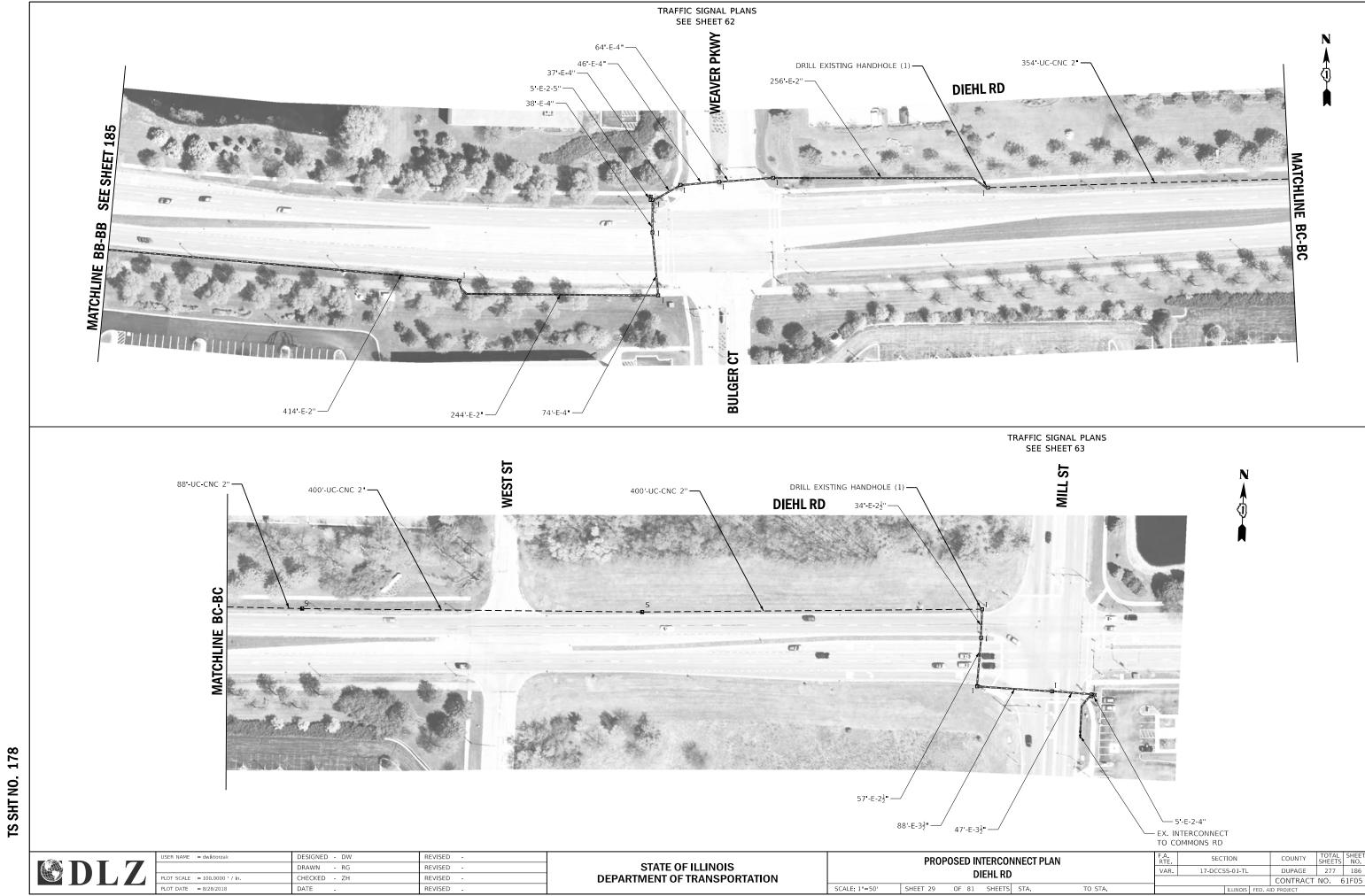
SCALE: 1"=50'

 PROPOSED INTERCONNECT PLAN
 F.A. SECTION
 COUNTY TOTAL SHEETS NO.

 DIEHL RD
 VAR. 17-DCCSS-01-TL
 DUPAGE 277
 184

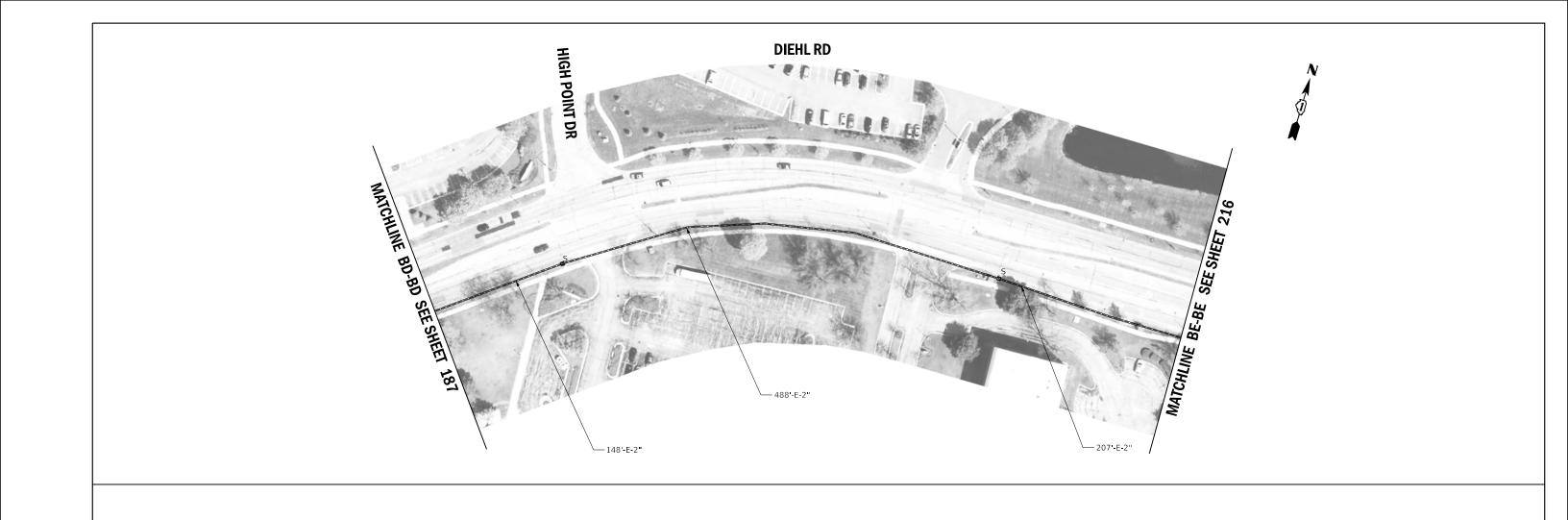
 SHEET 27
 OF 81
 SHEETS STA.
 TO STA.
 IILLINOIS FED. AID PROJECT





SHEET 30 OF 81 SHEETS STA.

SCALE: 1"=50'



	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
© DLZ		DRAWN - RG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ZH	REVISED -
	PLOT DATE = 8/28/2018	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50

 PROPOSED INTERCONNECT PLAN
 F.A. RTE.
 SECTION
 COUNTY SHEETS NO.
 SHEET NO.

 DIEHL RD
 VAR.
 17-DCCSS-01-TL
 DUPAGE
 277
 188

 SHEET 31
 OF 81
 SHEETS
 STA.
 TO STA.
 ILLINOIS FED. AID PROJECT



MATCHLINE BF-BF

SEE SHEET 229

MATCHLINE EC-EC

– 298'-E-2**"** — 163'-Е-2**"** — 339 -**Е-2"** - 300 -E-2" DESIGNED - DW REVISED SECTION PROPOSED INTERCONNECT PLAN STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DRAWN - RG REVISED DUPAGE 277 189
CONTRACT NO. 61F05 17-DCCSS-01-TL RAYMOND DR AND FERRY RD CHECKED - ZH REVISED DATE SCALE: 1"=50" SHEET 32 OF 81 SHEETS STA. TO STA.

FERRY RD

EX BRIDGE (SN 022-9709)

RAYMOND DR

1-88

FERRY RD

MATCHLINE BF-BF

TRAFFIC SIGNAL PLANS SEE SHEET 69

6'-E-2-4" —

71'-E-2" -

→ ②→Z

MATCHLINE BG-BG SEE SHEET 190

RAYMOND DR

TRAFFIC SIGNAL PLANS SEE SHEET 71

103 E-5

FERRY RD

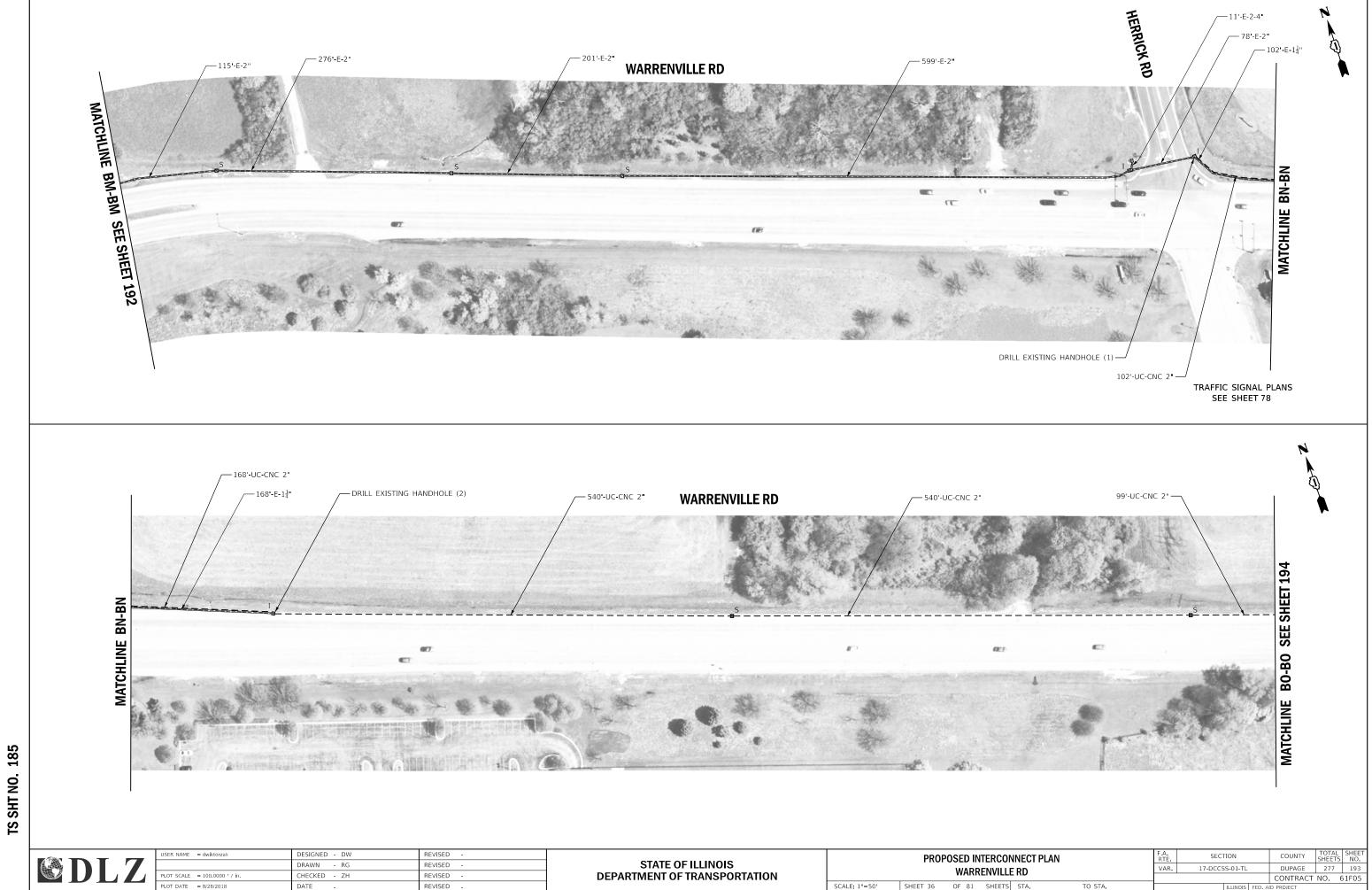
TORCH PKWY

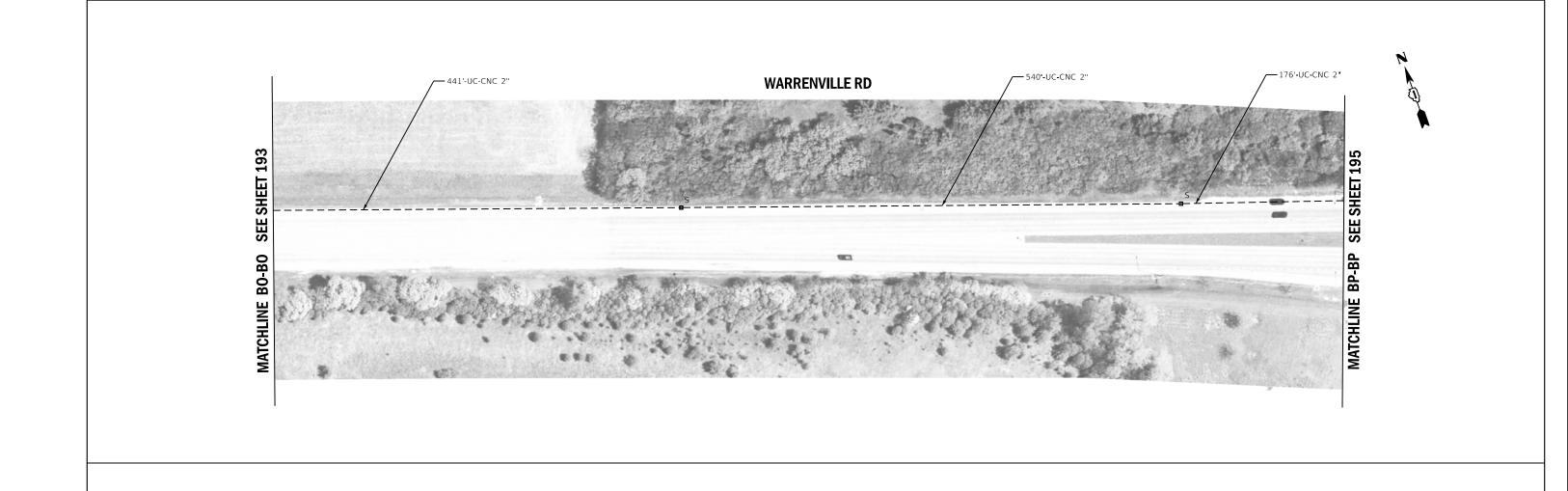
46'-E-2-5" -

5 -E-2-5 69**'**-E-2" -

SEE SHEET

BI-BI





ODLZ

USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	1
	DRAWN - RG	REVISED -	ì
PLOT SCALE = 100.0000 ' / in.	CHECKED - ZH	REVISED -	ì
PLOT DATE = 8/28/2018	DATE -	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

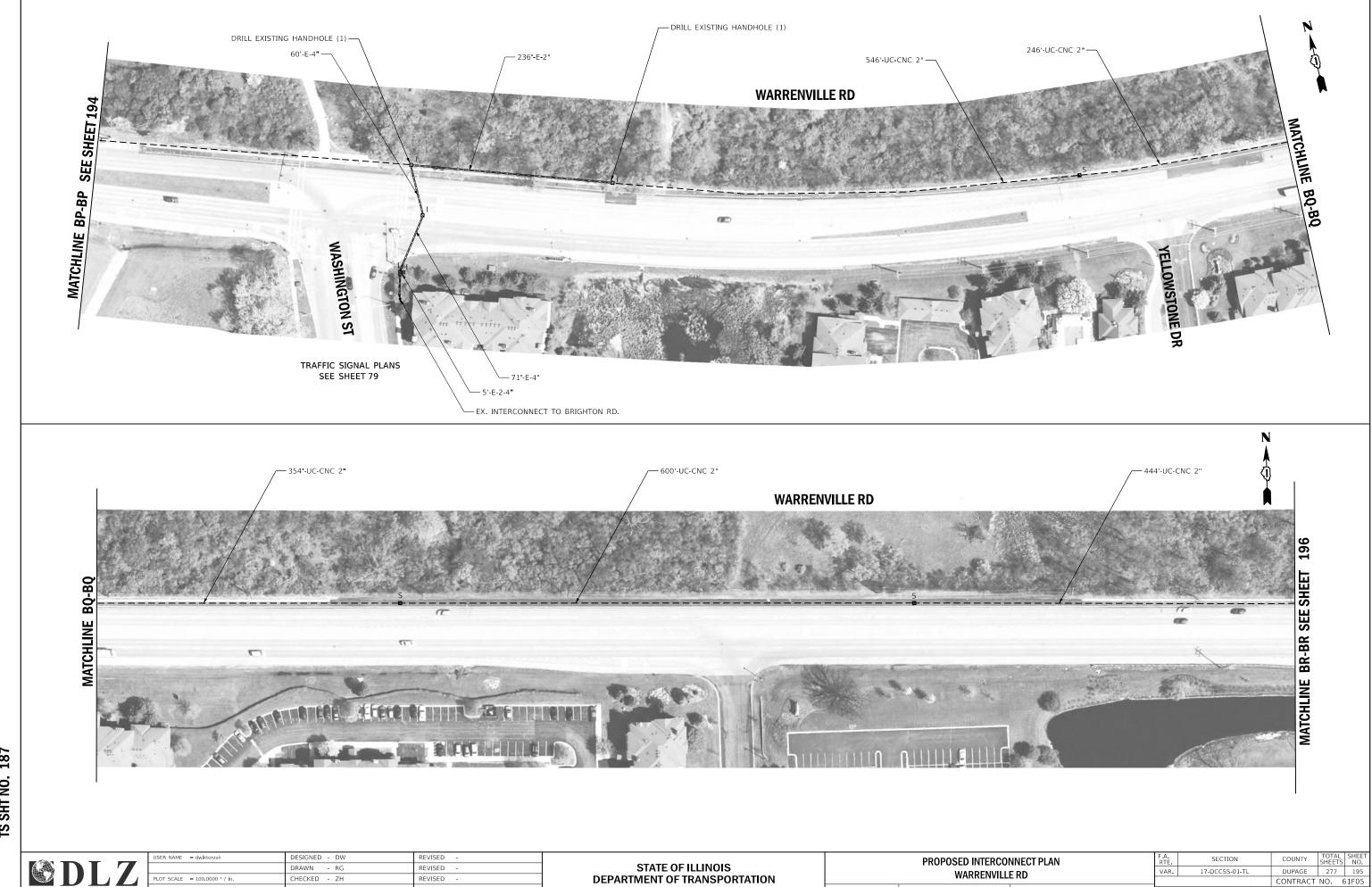
SCALE: 1"=50'

 PROPOSED INTERCONNECT PLAN
 F.A. SECTION
 COUNTY TOTAL SHEETS NO.

 WAR RENVILLE RD
 VAR. 17-DCCSS-01-TL
 DUPAGE 277 194

 SHEET 37 OF 81 SHEETS STA. TO STA.
 TO STA.
 ILLINOIS FEAL AND PROJECT





SCALE: 1"=50'

SHEET 38 OF 81 SHEETS STA.

TO STA.

DATE

REVISED



