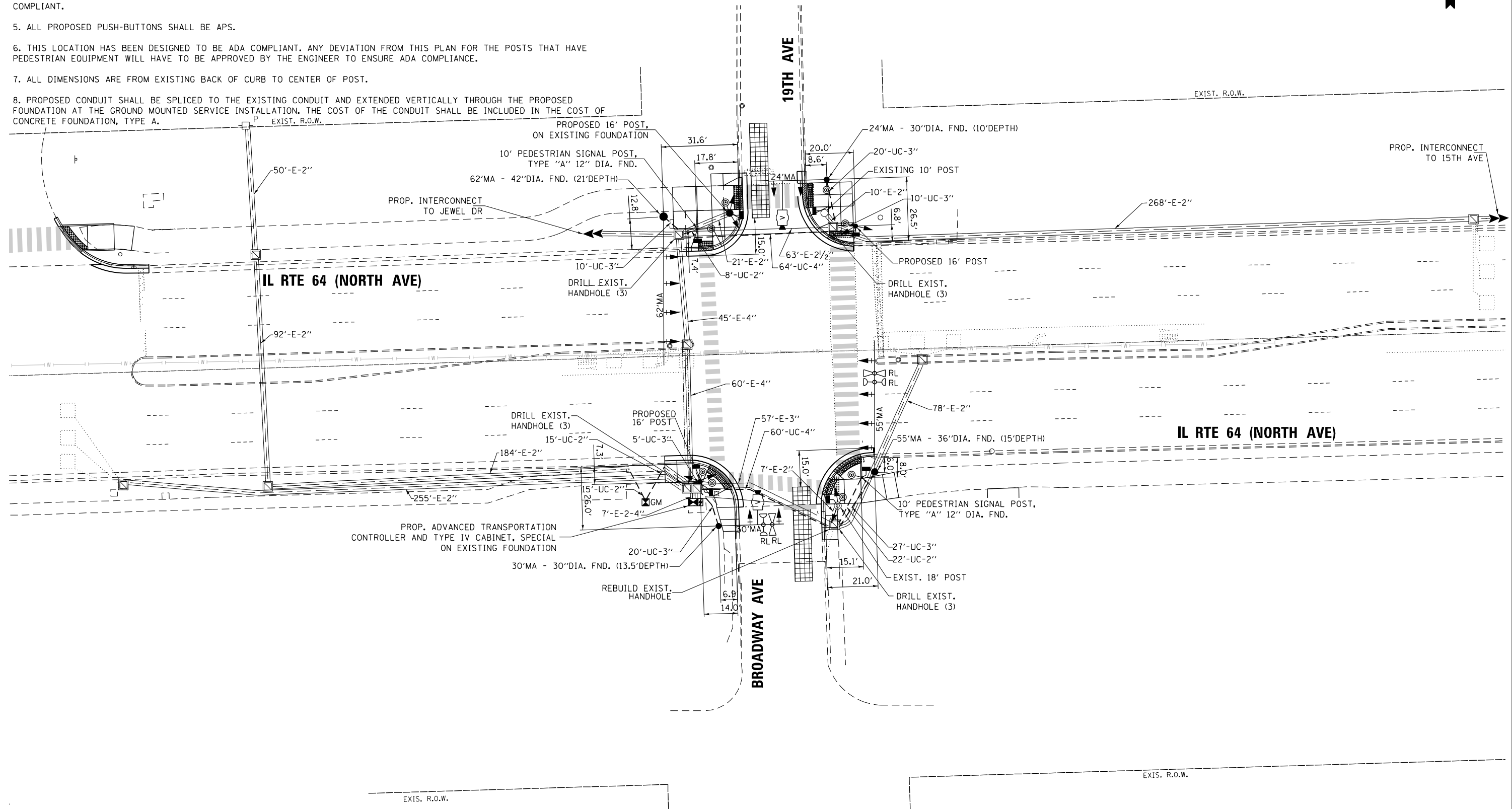


NOTES:

1. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
6. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
7. ALL DIMENSIONS ARE FROM EXISTING BACK OF CURB TO CENTER OF POST.

8. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE INSTALLATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.



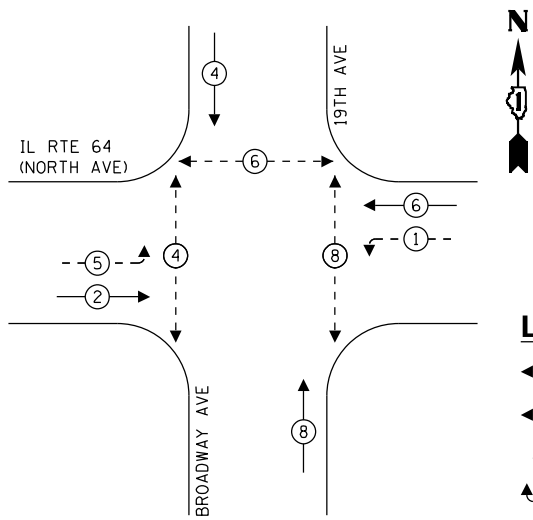
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TS 3015
IDOT CENTRACS
FORMER ECON 100

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 64 (NORTH AVE) AT 19TH AVE / BROADWAY AVE			F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 201
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		REVISED -	SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 62N40			
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -	REVISED -				FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

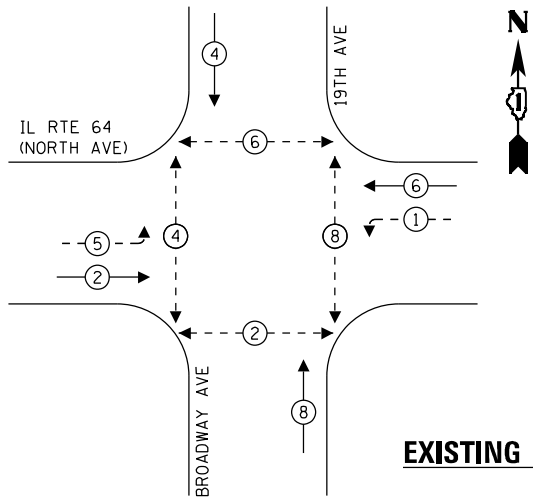
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EXISTING CONTROLLER SEQUENCE

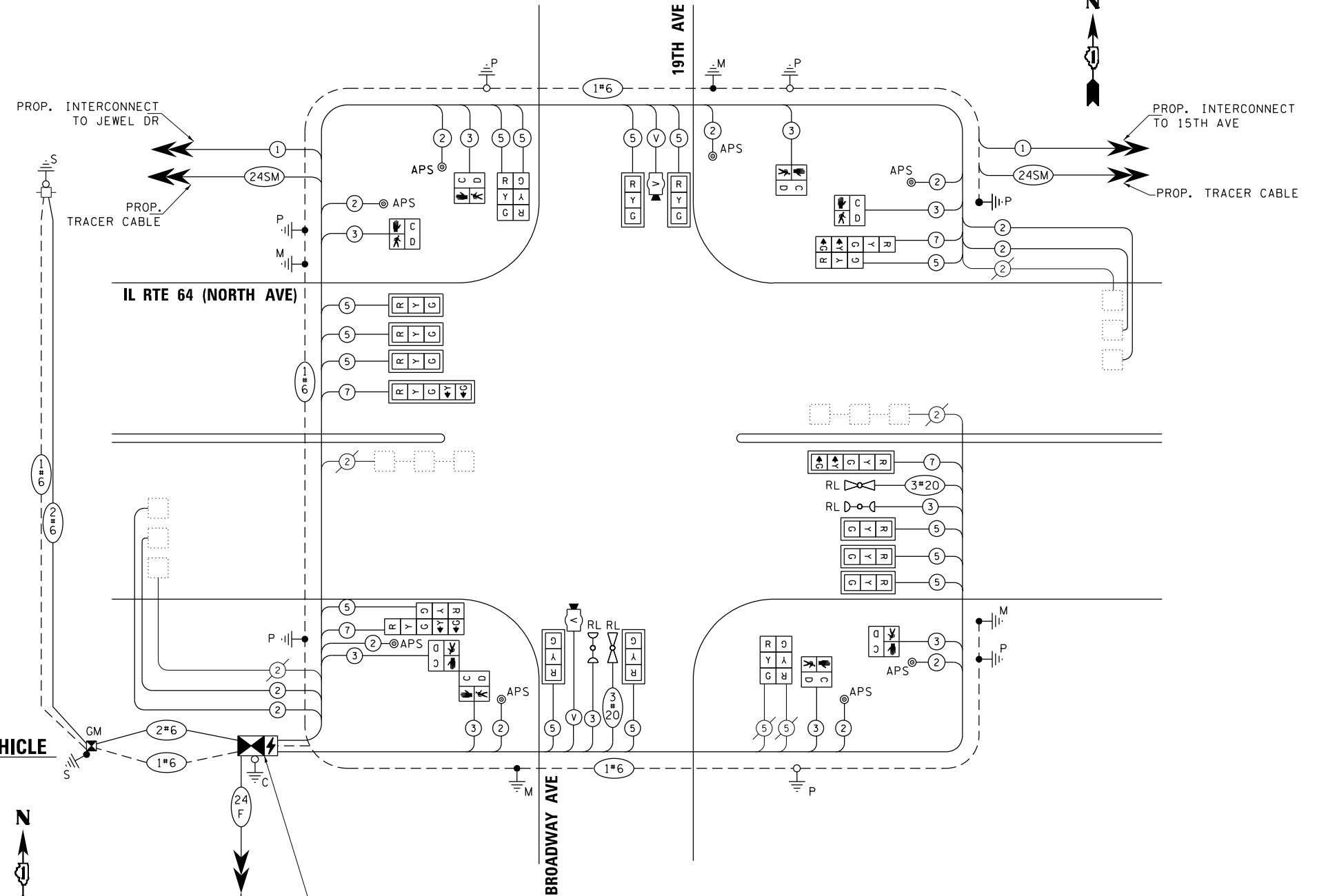
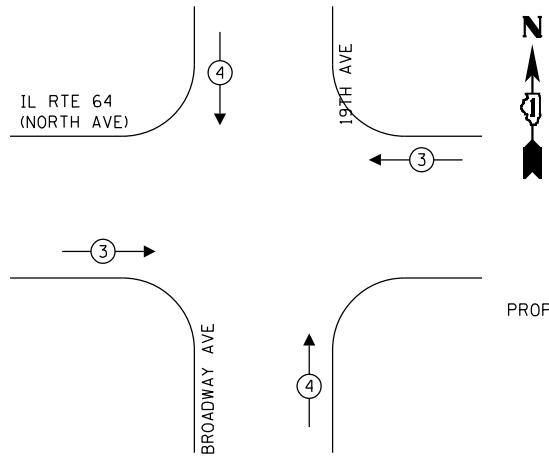


- LEGEND:**
- ← ⊙ ← PROTECTED PHASE
 - ← ⊙ - - PROTECTED/PERMITTED PHASE
 - ← ⊙ → PEDESTRIAN PHASE
 - ⊙ OL OVERLAP

PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
NOT TO SCALE

PROP. ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER IN CABINET (36)

NOTES:

1. ONLY RED SIGNAL FACES SHALL HAVE LENS COVER INSTALLED.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			598
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1203

ENERGY COSTS TO:
 VILLAGE OF MELROSE PARK
 1000 N 25TH AVE
 MELROSE PARK, IL 60160
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630)-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 08190-18007
 METER NUMBER:



USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 PLOT SCALE = 40.0000' / in.
 CHECKED - MS
 DATE - 3/22/2024

REVISOR -
 REVISION -
 REVISOR -
 REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE) AT 19TH AVE / BROADWAY AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	202

CONTRACT NO. 62N40

TS 3015
IDOT CENTRACS
FORMER ECON 100

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

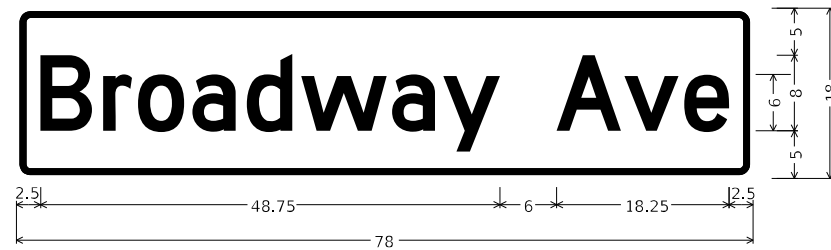
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

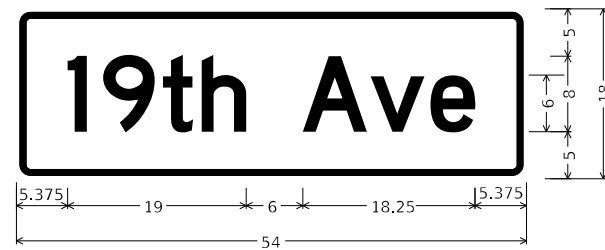


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	2	ZZ	2

NOTE: INSTALL SIGN BACK TO BACK ON EASTBOUND MAST ARM



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

NOTE: INSTALL SIGN BACK TO BACK ON WESTBOUND MAST ARM

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SO FT	13.5
SIGN PANEL - TYPE 2	SO FT	44.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	28
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	92
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	124
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1098
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1439
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2504
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	713
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1548
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	385
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	643
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	8
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7866
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	285
CENTRACS LICENSE EXPANSION	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	20
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

* 100% COST TO THE VILLAGE OF MELROSE PARK

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4001 WILSON ROAD, SUITE 600
WARREN, IL 60555
PHONE: (815) 447-4600
WWW.KIMLEY-HORN.COM

USER NAME = joelturk	DESIGNED - AMK	REVISED -
PLOT SCALE = 2,0000 ' / in.	DRAWN - JJT	REVISED -
PLOT DATE = 3/22/2024	CHECKED - SS	REVISED -
	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND BROADWAY AVE /19TH AVE

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	203
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

TS 3015
IDOT CENTRACS
FORMER ECON 100

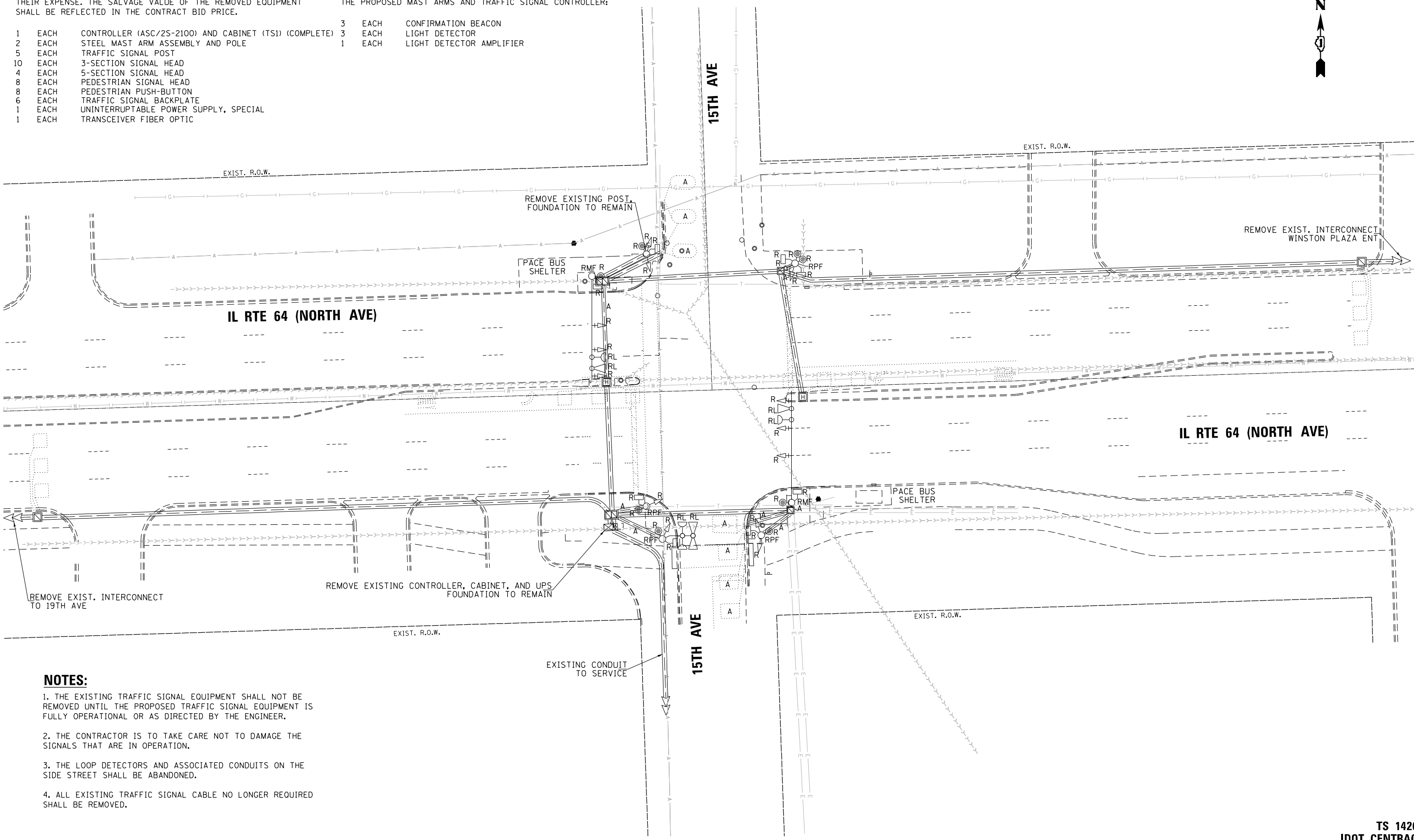
REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER (ASC/2S-2100) AND CABINET (TS1) (COMPLETE)	3	EACH	CONFIRMATION BEACON
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE	3	EACH	LIGHT DETECTOR
5	EACH	TRAFFIC SIGNAL POST	1	EACH	LIGHT DETECTOR AMPLIFIER
10	EACH	3-SECTION SIGNAL HEAD			
4	EACH	5-SECTION SIGNAL HEAD			
8	EACH	PEDESTRIAN SIGNAL HEAD			
8	EACH	PEDESTRIAN PUSH-BUTTON			
6	EACH	TRAFFIC SIGNAL BACKPLATE			
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL			
1	EACH	TRANSCEIVER FIBER OPTIC			

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

3	EACH	CONFIRMATION BEACON
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER



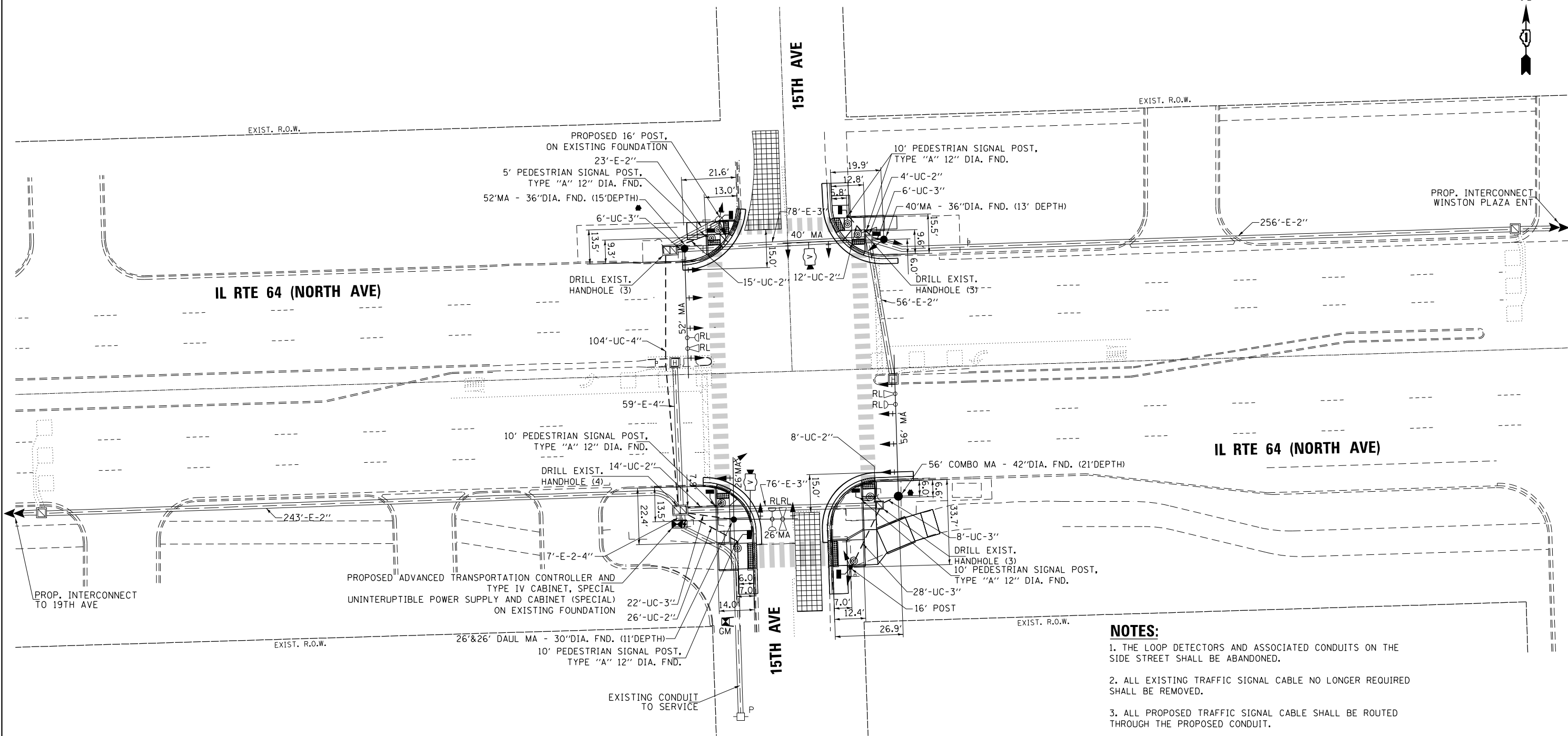
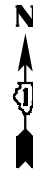
NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

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**TS 14265
IDOT CENTRACS
FORMER ECON 100**

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL RTE 64 (NORTH AVE) AT 15TH AVE	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 204
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -			SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. TO STA.	CONTRACT NO. 62N40
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -				FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



NOTES:

1. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
6. ALL DIMENSIONS ARE FROM EXISTING BACK OF CURB TO CENTER OF POST.
7. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
8. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE INSTALLATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.

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GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773.774.590

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

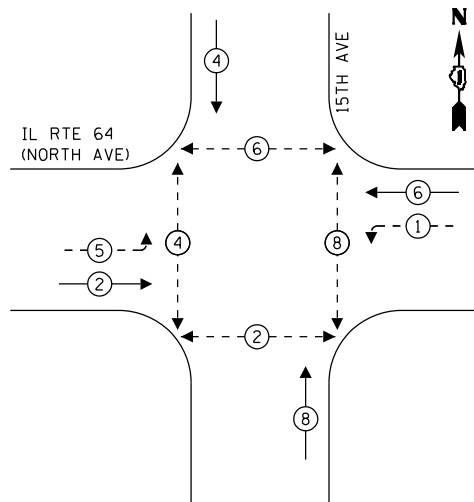
**TRAFFIC SIGNAL MODERNIZATION PLAN
 IL RTE 64 (NORTH AVE) AT 15TH AVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	205
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TS 14265
 IDOT CENTRACS
 FORMER ECON 100**

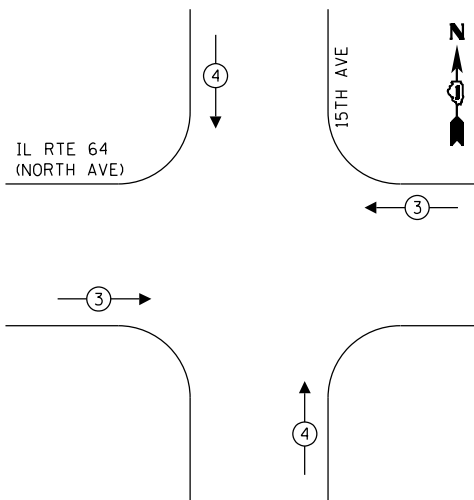
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			598
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1203

ENERGY COSTS TO:

VILLAGE OF MELROSE PARK

1000 N 25TH AVE
MELROSE PARK, IL 60160

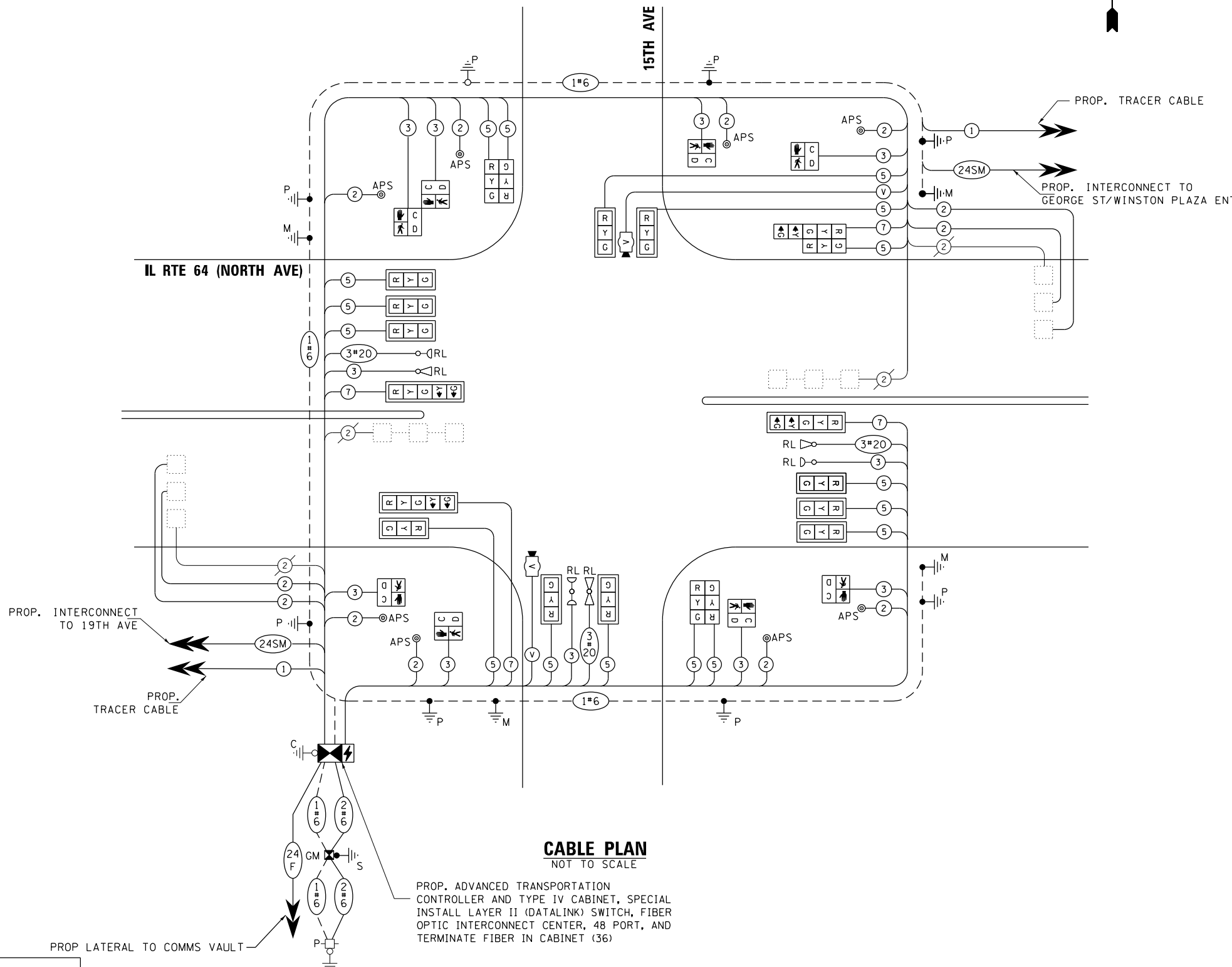
ENERGY SUPPLY: CONTACT: JOE STACHO

PHONE: (630)-424-5704

COMPANY: COMED

ACCOUNT NUMBER: 08190-18007

METER NUMBER:



**CABLE PLAN
NOT TO SCALE**

PROP. ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER IN CABINET (36)

NOTES:

1. ONLY RED SIGNAL FACES SHALL HAVE LENS COVER INSTALLED.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE) AT 15TH AVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	206
				CONTRACT NO. 62N40

**TS 14265
IDOT CENTRACS
FORMER ECON 100**

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

FILE NAME = p:\1\h-p\p\ben\1\gucm\h-p\01\Documents\01 Active Projects\W-015-16895100 - IL 64 Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\0108121-int-15-59_GAI.DGN



USER NAME = \$USER\$
DESIGNED - AV, EA
DRAWN - AV, EA
PLOT SCALE = 40.0000' / in.
CHECKED - MS
PLOT DATE = \$DATE\$
DATE - 3/22/2024

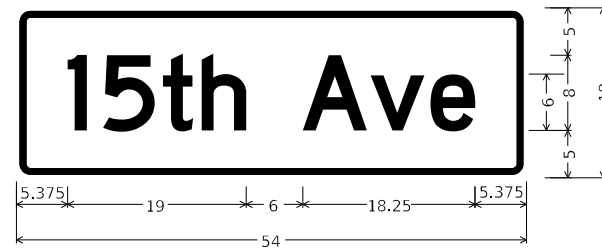
REVISIONS:
REVISED -
REVISED -
REVISED -
REVISED -

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SO FT	13.5
SIGN PANEL - TYPE 2	SO FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	79
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	70
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	104
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1198
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1774
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2873
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	766
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1528
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	179
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	849
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	11
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
INDUCTIVE LOOP DETECTOR	EACH	8
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8880
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	512
CENTRACS LICENSE EXPANSION	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	5
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24
LED SIGNAL FACE, LENS COVER	EACH	20
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 26 FT.	EACH	1

* 100% COST TO THE VILLAGE OF MELROSE PARK

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TS 14265
IDOT CENTRACS
FORMER ECON 100



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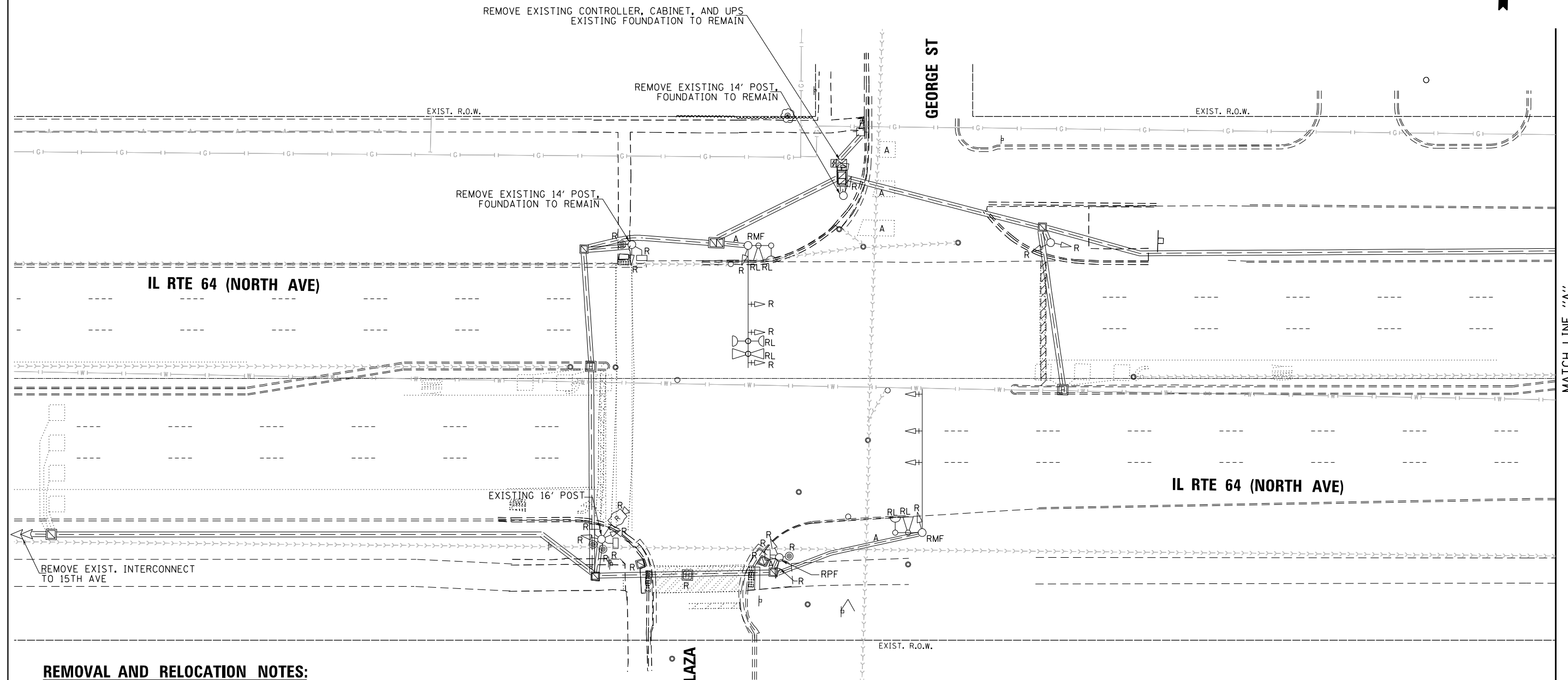
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND 15TH AVE

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR,SW&TS	COOK	492	207
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				



REMOVAL AND RELOCATION NOTES:

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

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 12 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH CONTROLLER (ASC/2S-2100) AND CABINET (TSI) COMPLETE
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH RADAR DETECTION SYSTEM

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 3 EACH CONFIRMATION BEACON
- 3 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

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 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 300 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

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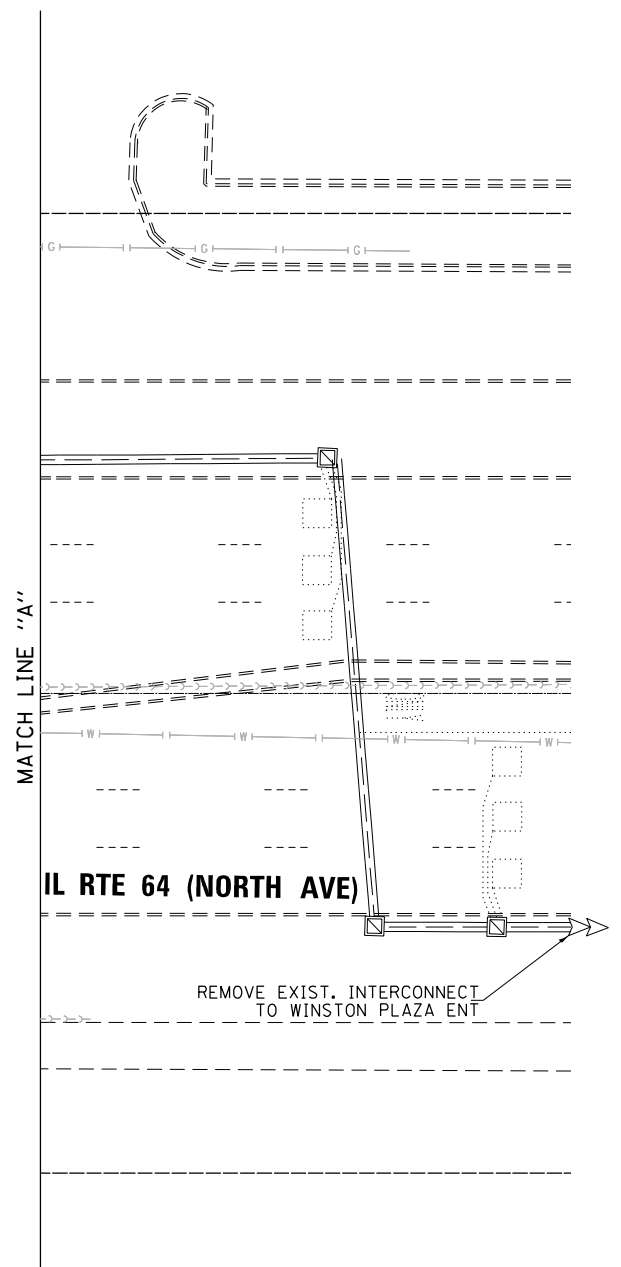
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT GEORGE ST /WINSTON PLAZA ENT
(SHEET 1 OF 2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	208
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62N40	

TS 3040
IDOT CENTRACS
FORMER ECON 100

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



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ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: 773.774.590

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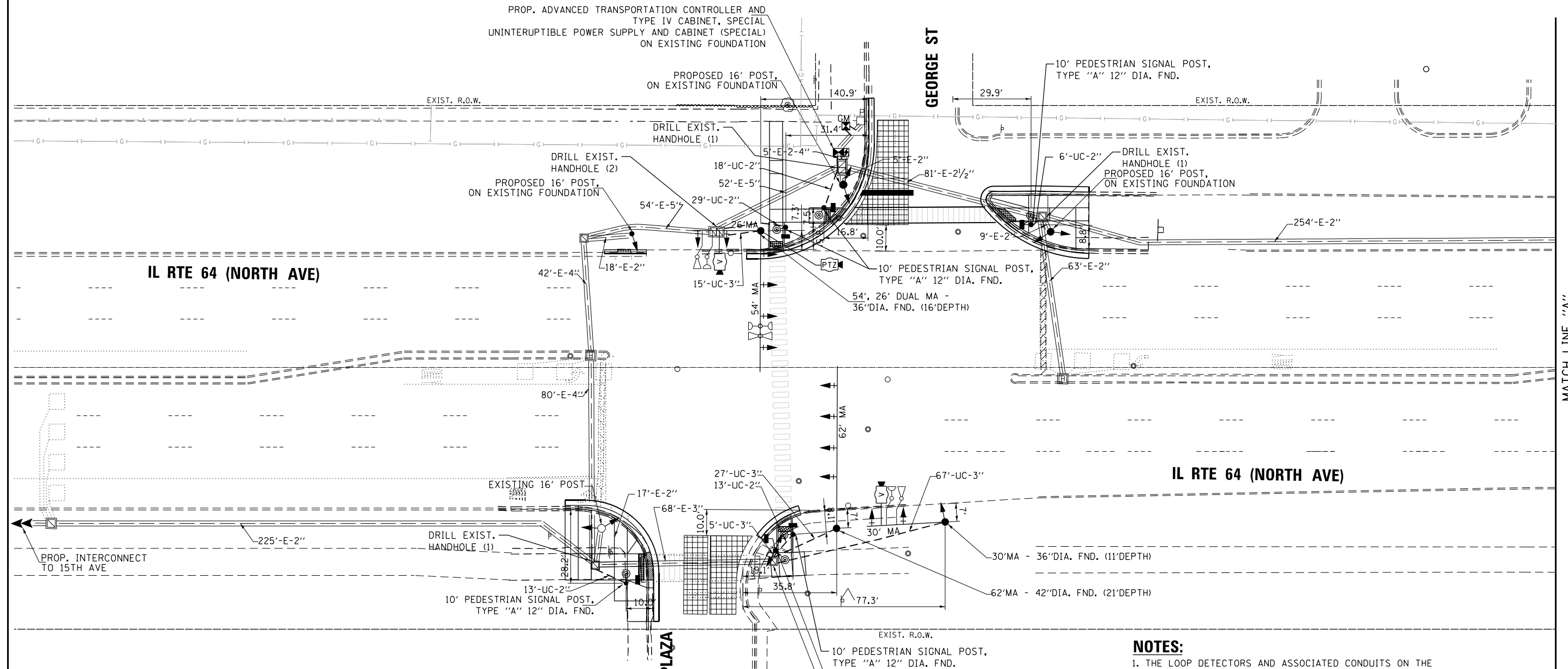
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT GEORGE ST /WINSTON PLAZA ENT
(SHEET 2 OF 2)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	209
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 3040
IDOT CENTRACS
FORMER ECON 100**



NOTES:

1. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
6. ALL DIMENSIONS ARE FROM EXISTING BACK OF CURB TO CENTER OF POST.
7. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE INSTALLATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

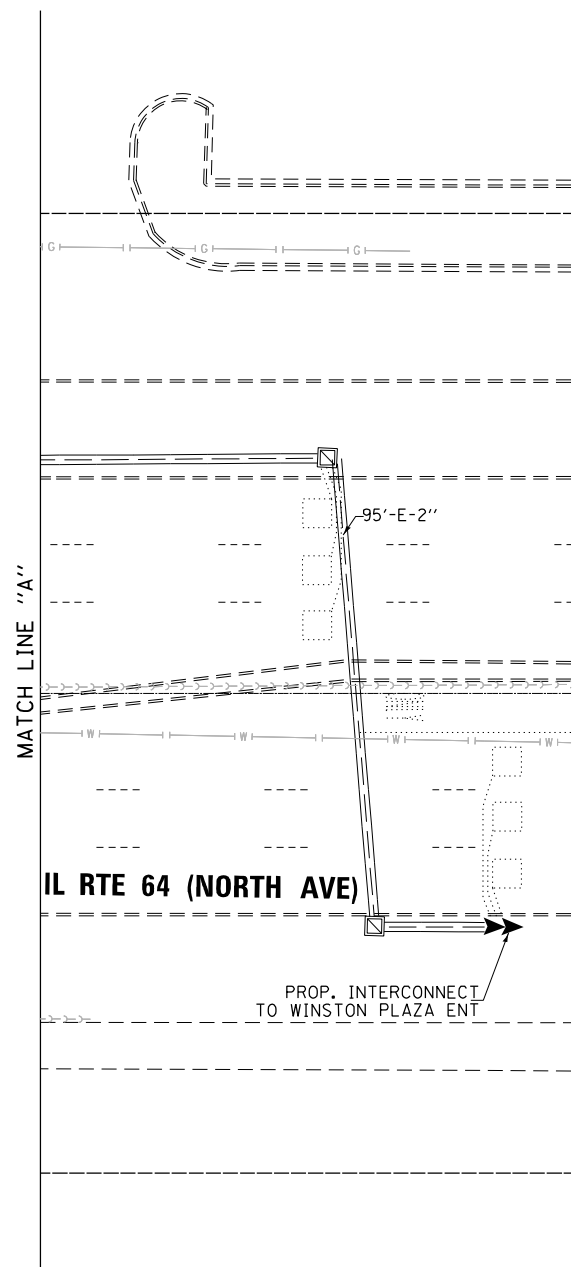
**TRAFFIC SIGNAL MODERNIZATION PLAN
 IL RTE 64 (NORTH AVE) AT GEORGE ST /WINSTON PLAZA ENT
 (SHEET 1 OF 2)**

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

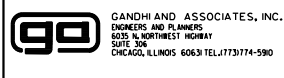
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307	2020-263-SUR, SW&TS	COOK	492	210
FED. ROAD DIST. NO. .			ILLINOIS FED. AID PROJECT	

**TS 3040
 IDOT CENTRACS
 FORMER ILLINOIS**

CONTRACT NO. 62N40



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CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

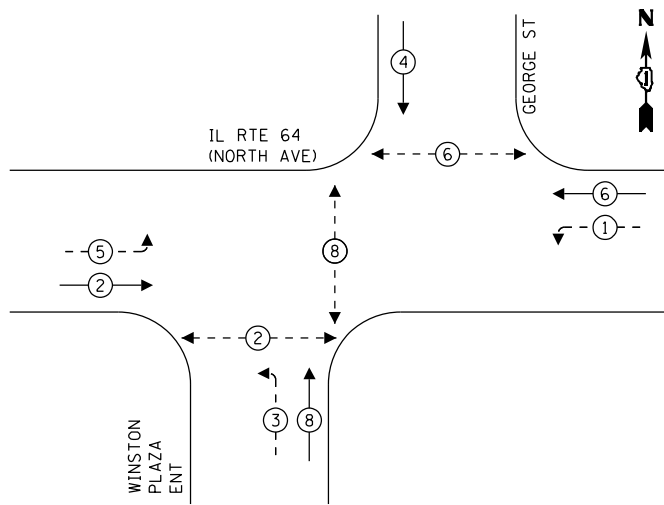
**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT GEORGE ST /WINSTON PLAZA ENT
(SHEET 2 OF 2)**

SCALE: 1"=20'	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	211
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 3040
IDOT CENTRACS
FORMER ECON 100**

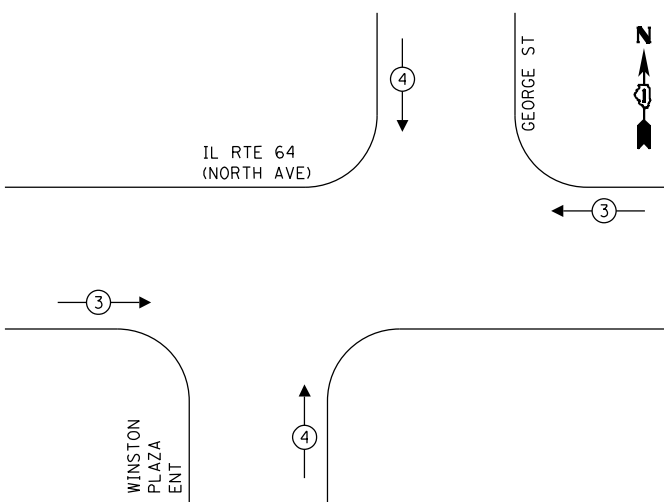
PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	6	13	78
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			719
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1324

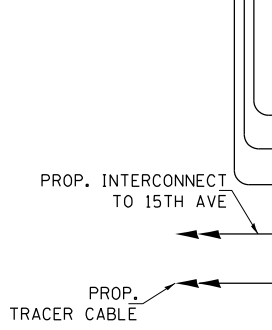
ENERGY COSTS TO:
 VILLAGE OF MELROSE PARK
 1000 N 25TH AVE
 MELROSE PARK, IL 60160
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630)-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 08190-18007
 METER NUMBER:

PROP. ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER IN CABINET (24)

IL RTE 64 (NORTH AVE)

WINSTON PLAZA ENT

GEORGE ST



NOTES:

1. ONLY RED SIGNAL FACES SHALL HAVE LENS COVER INSTALLED.

CABLE PLAN
NOT TO SCALE

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE IL RTE 64 (NORTH AVE) AT GEORGE ST /WINSTON PLAZA ENT

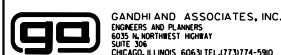
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	212
CONTRACT NO. 62N40				

TS 3040
IDOT CENTRACS
FORMER ECON 100

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

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 DATE - 3/22/2024

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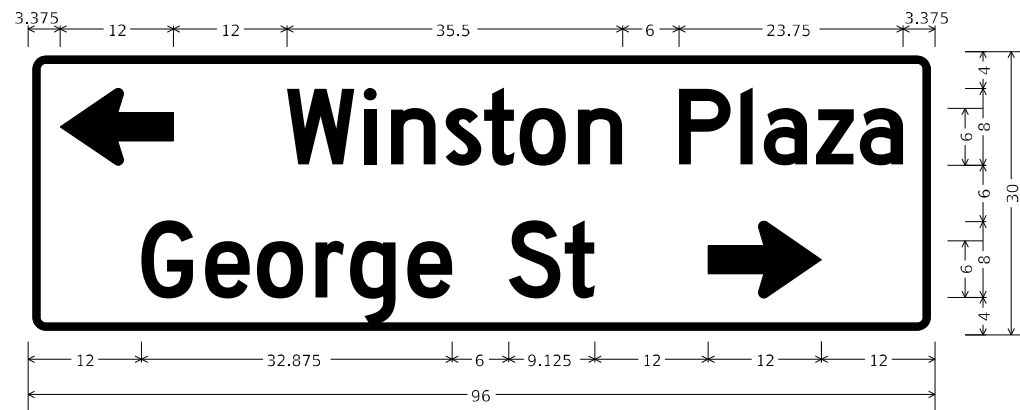
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

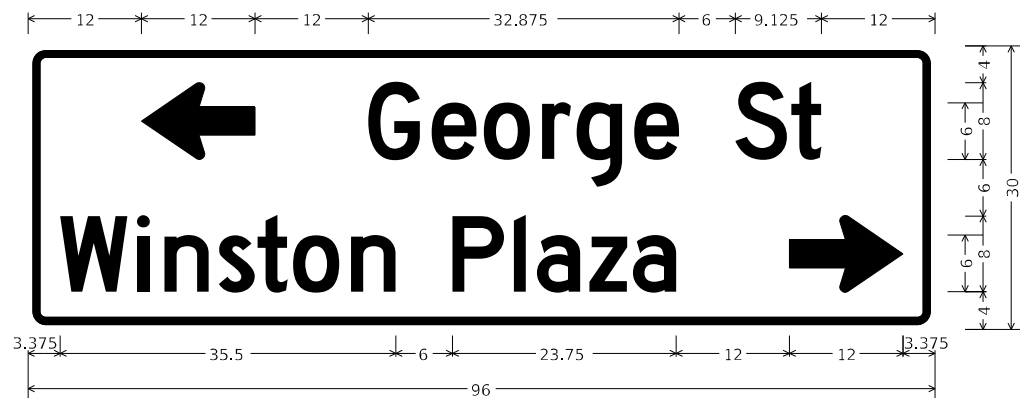


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20	2	ZZ	1

NOTE: INSTALL THIS SIGN ON THE WESTBOUND MAST ARM.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20	2	ZZ	1

NOTE: INSTALL THIS SIGN ON THE EASTBOUND MAST ARM.

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SQ FT	65
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	82
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	114
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1352
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2165
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4046
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	776
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2287
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	41
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	487
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	27
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	9
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	12025
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	771
CENTRACS LICENSE EXPANSION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	123
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
LED SIGNAL FACE, LENS COVER	EACH	22
CAMERA MOUNTING ASSEMBLY	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 54 FT.	EACH	1

* 100% COST TO THE VILLAGE OF MELROSE PARK

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND GEORGE ST/WINSTON PLAZA ENT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	213
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

TS 3040
IDOT CENTRACS
FORMER ECON 100

SCALE: SHEET 1 OF SHEETS STA. TO STA.

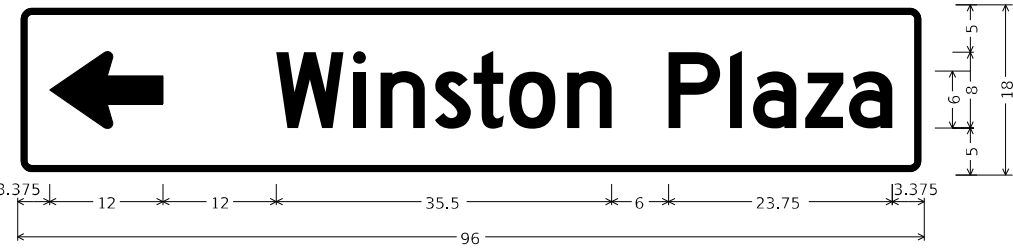
SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

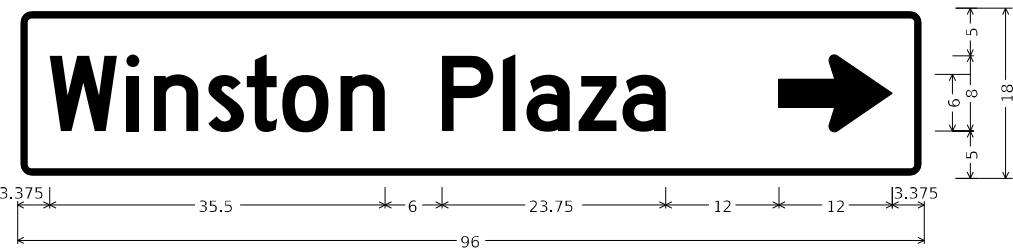


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	2	ZZ	1

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	86
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	86
CONCRETE FOUNDATION, TYPE A	FOOT	4
INDUCTIVE LOOP DETECTOR	EACH	9
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2

* 100% COST TO THE VILLAGE OF MELROSE PARK

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TS 8800
IDOT CENTRACS
FORMER ECON 100



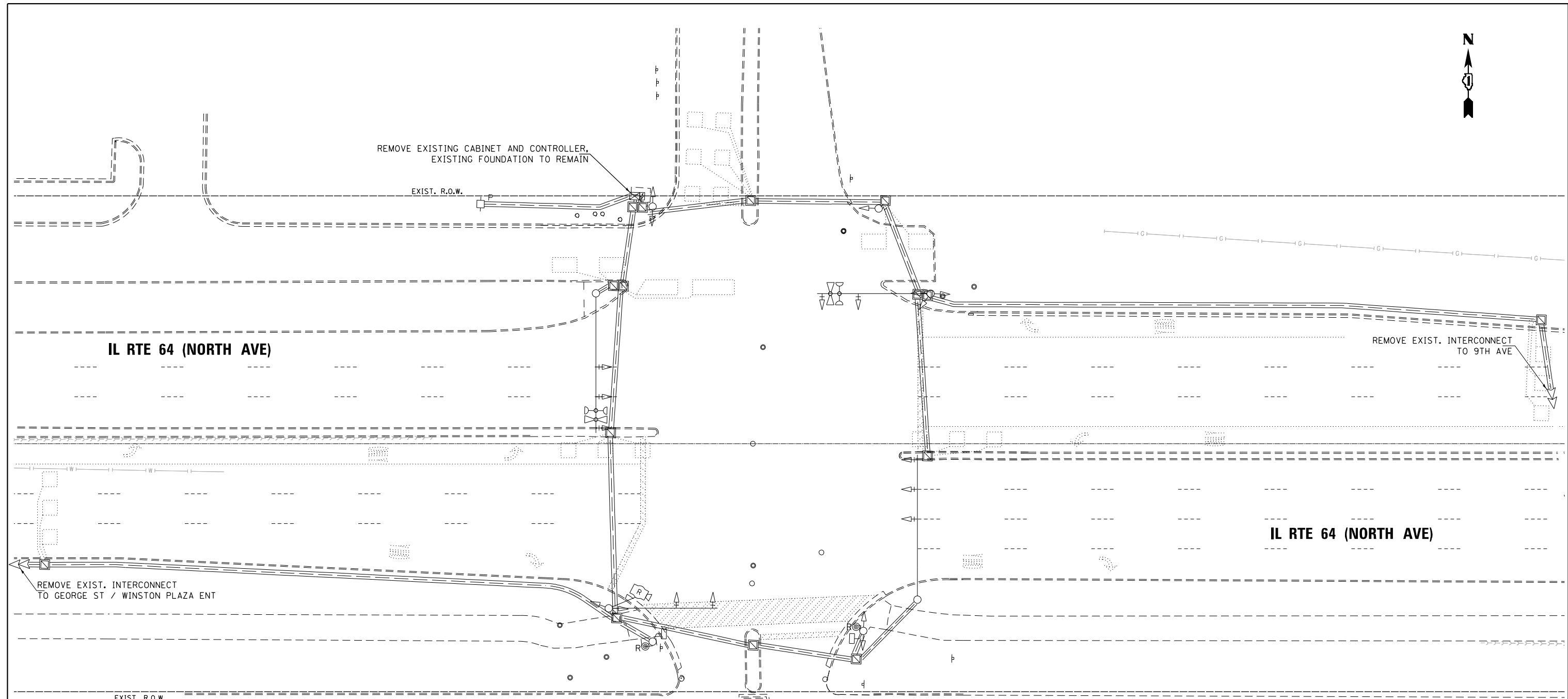
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PLOT DATE = 3/22/2024	CHECKED - SS	REVISED -
	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND WINSTON PLAZA

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	218
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				



REMOVAL AND RELOCATION NOTES:

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

- 2 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH CONTROLLER (ASC/2S-2100) AND CABINET (TS1) COMPLETE
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

1. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.

FILE NAME = p:\1\h-pa-bent\legucom\h-pa-01\Documents\01 Active Projects\W-CHS-16995100 - IL 64\Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor- Signal\1008121-int-TS-65-041.DGN



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 IL RTE 64 (NORTH AVE) AT WINSTON PLAZA ENT

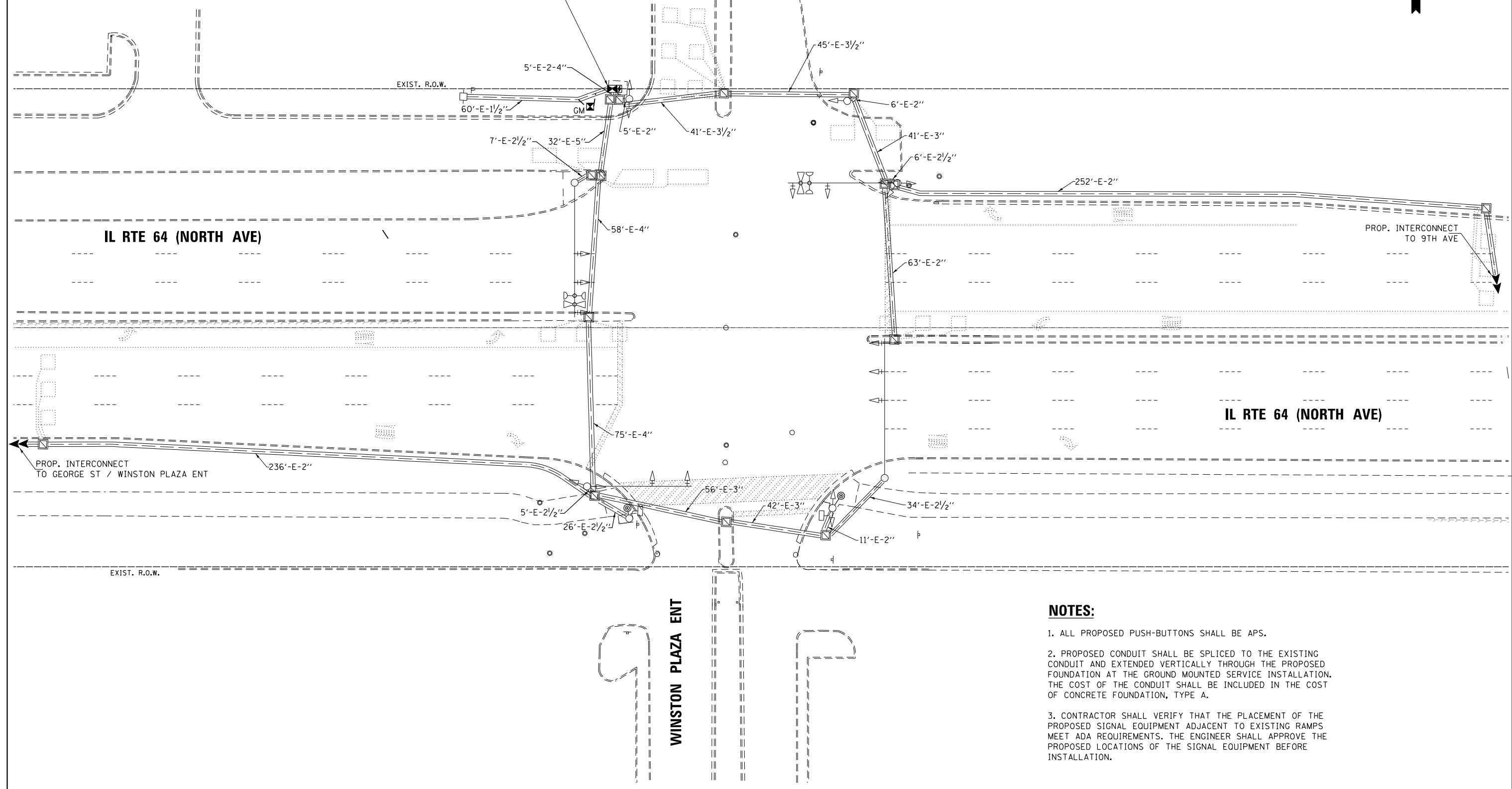
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	214
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 8800
 IDOT CONTRACS
 FORMER ECON 100



PROP. ADVANCED TRANSPORTATION CONTROLLER AND
TYPE IV CABINET, SPECIAL
UNINTERUPTIBLE POWER SUPPLY AND CABINET (SPECIAL)
ON EXISTING FOUNDATION



NOTES:

1. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
2. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE INSTALLATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.
3. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

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GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 308
CHICAGO, ILLINOIS 60630 TEL: 773.774.590

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT WINSTON PLAZA ENT**

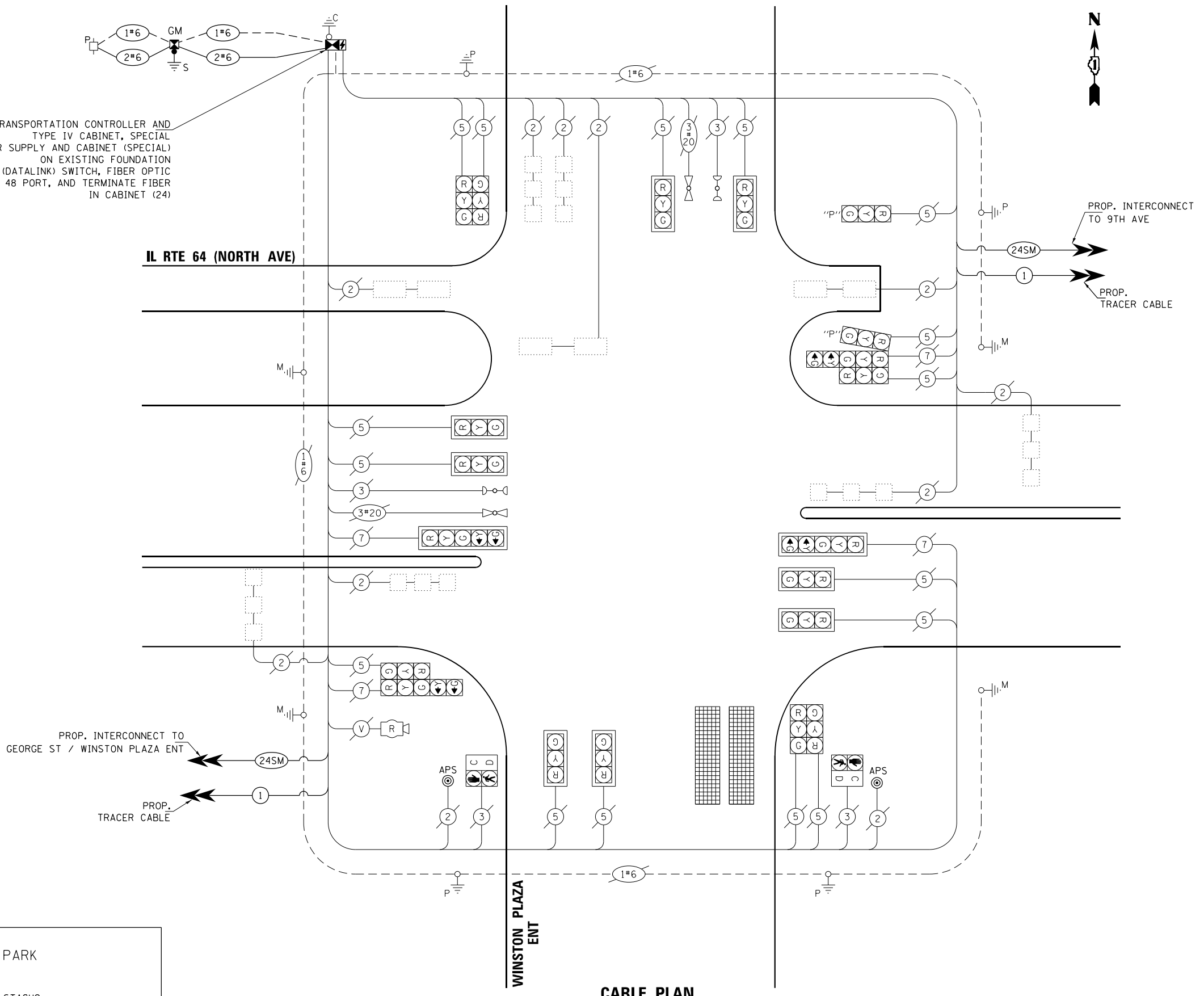
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	215
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 8800
IDOT CONTRACS
FORMER ECON 100**

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

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PROP. ADVANCED TRANSPORTATION CONTROLLER AND
 TYPE IV CABINET, SPECIAL
 UNINTERUPTIBLE POWER SUPPLY AND CABINET (SPECIAL)
 ON EXISTING FOUNDATION
 INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC
 INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER
 IN CABINET (24)



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE SIGNALS			
3-SECTION	2	22	44
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	2	15	30
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	1	20	20
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			510
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1115

ENERGY COSTS TO:
 VILLAGE OF MELROSE PARK
 1000 N 25TH AVE
 MELROSE PARK, IL 60160
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630)-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 08190-18007
 METER NUMBER:

GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5015 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

DESIGNED - AV, EA	REVISED -
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CHECKED - MS	REVISED -
DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN
IL RTE 64 (NORTH AVE) AT WINSTON PLAZA ENT
 SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	216
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 8800
IDOT CENTRACS
FORMER ECON 100

SEQUENCE OF OPERATION

MOVEMENT	1+5																	1+6		2+5			2+6				3							4				FLASH
	1	2	3	4	5	6	7	8	9	10	11	12A	12B	13	14A	14B	14C	14D	15A	15B	15C	16	17A	17B	17C	17D												
PHASE	1+5																	1+6		2+5			2+6				3							4				
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12A	12B	13	14A	14B	14C	14D	15A	15B	15C	16	17A	17B	17C	17D												
CHANGE TO		1+6	2+5	2+6		2+6	θ	θ	2+6				3 4					1+5, 1+6 2+5, 2+6		4						1+5, 1+6 2+5, 2+6												
IL 64 (NORTH AVE) NEAR RIGHT AND THREE FAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R											
IL 64 (NORTH AVE) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R											
IL 64 (NORTH AVE) NEAR RIGHT AND THREE FAR RIGHT MAST ARM SIGNALS	W/B	R	R	R	R	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R											
IL 64 (NORTH AVE) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R											
FRONTAGE RD ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R											
WINSTON PLAZA ENTRANCE ALL SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R										
WINSTON PLAZA ENTRANCE AT FRONTAGE RD ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R										
WINSTON PLAZA ENTRANCE AT IL 64 (NORTH AVE) FAR RIGHT MAST ARM SIGNAL	S/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	G	Y	R	R											
WINSTON PLAZA ENTRANCE AT IL 64 (NORTH AVE) END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	G	Y	R	R											
PEDESTRIAN SIGNALS CROSSING WINSTON PLAZA ENTRANCE ON SOUTH SIDE OF IL 64 (NORTH AVE)		II	II	II	II	II	II	P	FI	II	P	FI	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	DARK										

PHASES 2+6 SHALL BE PLACED ON RECALL
 * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
 ** FLASHING HAND IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE
 P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK

θ THE WALK OR FLASHING DON'T WALK INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT
 IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE WALK OR FLASHING DON'T WALK INTERVALS
 WALK AND FLASHING DON'T WALK TIMINGS TO BE SET ONLY ON PHASES WHERE WALK AND FLASHING DON'T WALK ARE
 INDICATED IN THE SEQUENCE OF OPERATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1																	5		5		7		7		10		10		13					13		16				16		PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	CLEAR TO NORMAL SEQUENCE
	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	2	3																		
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	2	1D	3	1F	2	1H	1J	3	2	1M	1N	3	1Q	1R	1S	2	1U	1V	3	1X	1Y	1Z	2	3																				
IL 64 (NORTH AVE) NEAR RIGHT AND THREE FAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	R																		
IL 64 (NORTH AVE) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	R																		
IL 64 (NORTH AVE) NEAR RIGHT AND THREE FAR RIGHT MAST ARM SIGNALS	W/B	R	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	R																		
IL 64 (NORTH AVE) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	R																		
FRONTAGE RD ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R																		
WINSTON PLAZA ENTRANCE ALL SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	R	G																		
WINSTON PLAZA ENTRANCE AT FRONTAGE RD ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	R	G																		
WINSTON PLAZA ENTRANCE AT IL 64 (NORTH AVE) FAR RIGHT MAST ARM SIGNAL	S/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	G	G	Y	R	G	R	G																		
WINSTON PLAZA ENTRANCE AT IL 64 (NORTH AVE) END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	G	G	Y	R	G	R	G																		
PEDESTRIAN SIGNALS CROSSING WINSTON PLAZA ENTRANCE ON SOUTH SIDE OF IL 64 (NORTH AVE)		H	H	H	H	FH	H	FH	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H																		

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE PREEMPTION INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTERVAL 2 OR 3 IS TERMINATED.

FILE NAME = per\\h-pa-bent\\egucemh-pa-01\Documents\01 Active Projects\WV-CIS-16995108 - IL 64 Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\1008121-int-15-68-041.DGN

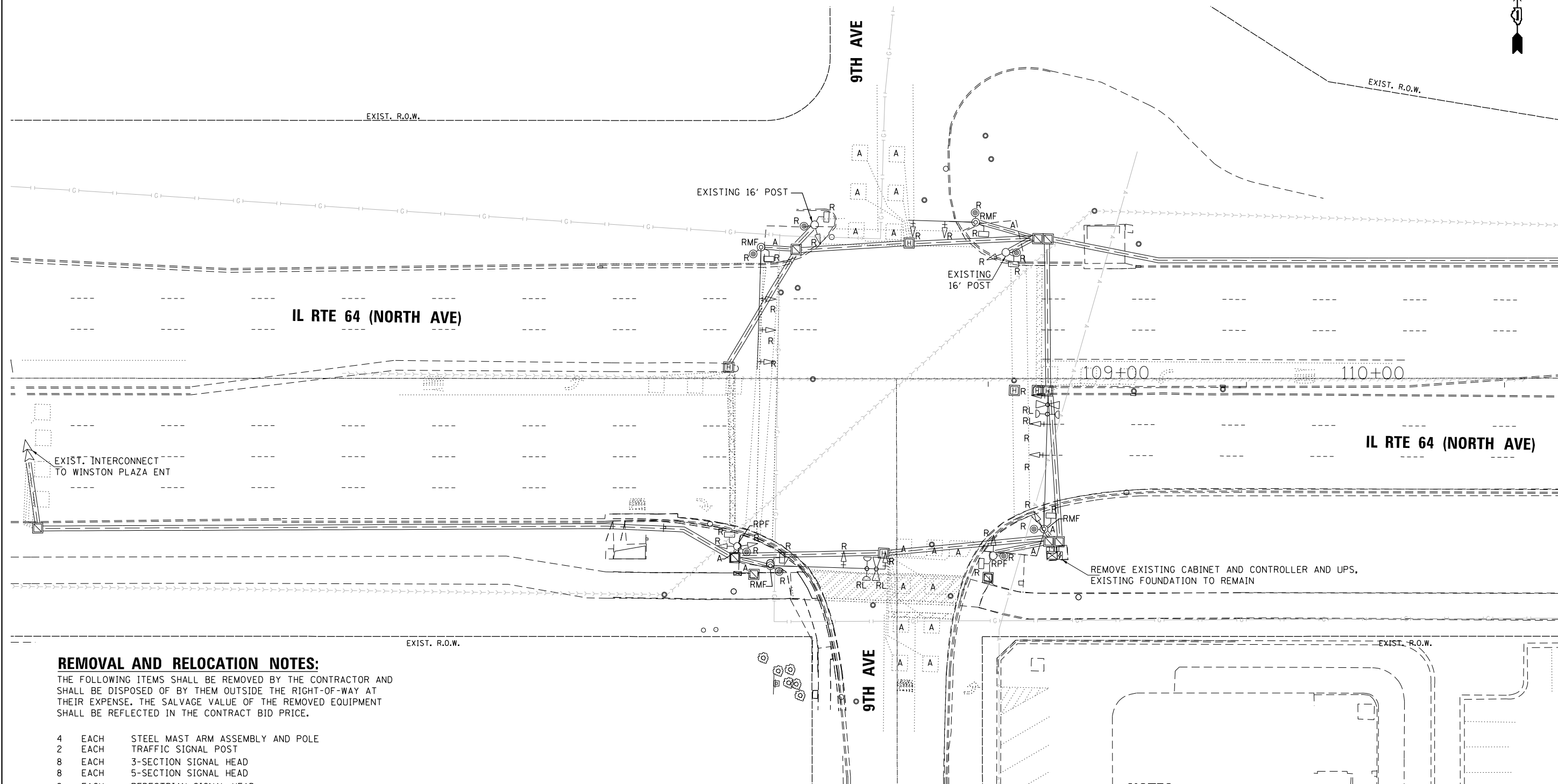
TS 8800
IDOT CENTRACS
FORMER ECON 100

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DRAWN -	REVISOR -	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -
PLOT DATE = \$DATE\$	DATE - 9/20/2023	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPERATION AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
IL RTE 64 (NORTH AVE) AT WINSTON PLAZA ENT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	217
SCALE: 1"=20'			CONTRACT NO. 62N40	
SHEET NO. OF SHEETS STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



REMOVAL AND RELOCATION NOTES:

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

- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 2 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH CONTROLLER (ASC/2S-2100) AND CABINET (TS1) COMPLETE
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

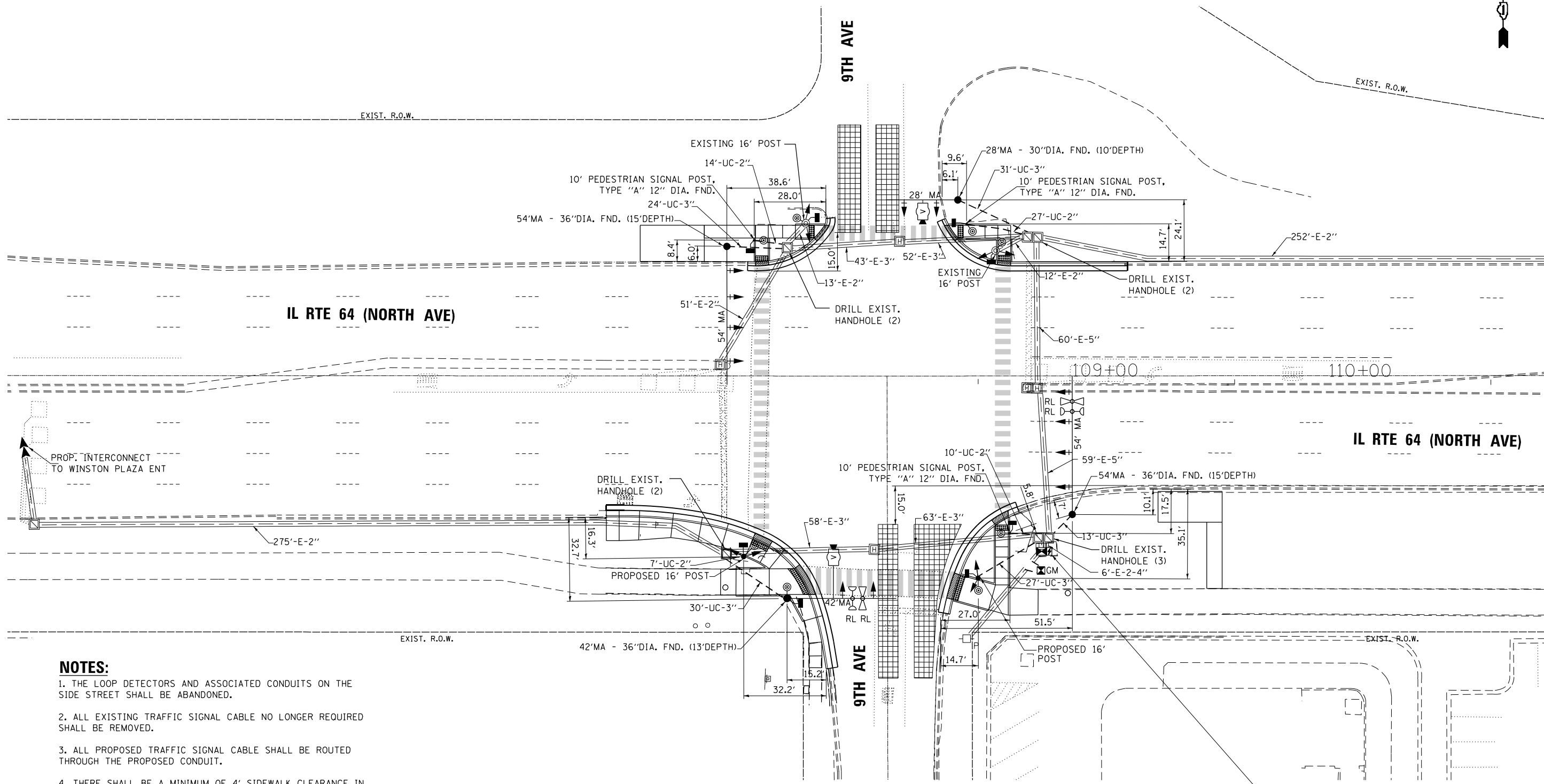
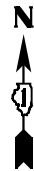
1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

FILE NAME = p:\1\h-pw-bentley\gucmsh-pw-01\Documents\01 Active Projects\112 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\1088121-int-15-69_GAI.DGN

	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL RTE 64 (NORTH AVE) AT 9TH AVE (SHEET 1 OF 2)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.0000' / in.	CHECKED - MS	REVISED -					307	2020-263-SUR, SW&TS	COOK	492	219
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			

**TS 3010
IDOT CENTRACS
FORMER ECON 100**

CONTRACT NO. 62N40



MATCH LINE "A"

NOTES:

1. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
6. ALL DIMENSIONS ARE FROM EXISTING BACK OF CURB TO CENTER OF POST.
7. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE INSTALLATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.

PROP. ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERUPTIBLE POWER SUPPLY AND CABINET (SPECIAL) ON EXISTING FOUNDATION

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GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

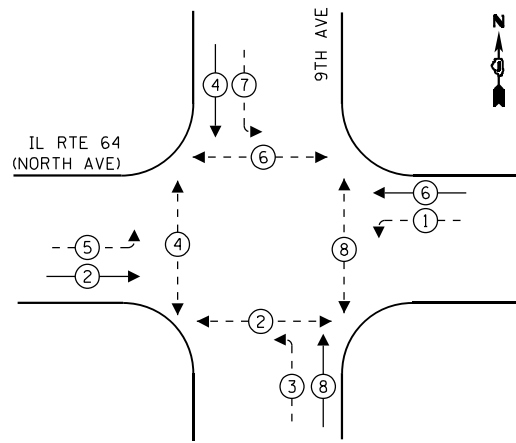
**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT 9TH AVE (SHEET 1 OF 2)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	221
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 3010
IDOT CENTRACS
FORMER ECON 100**

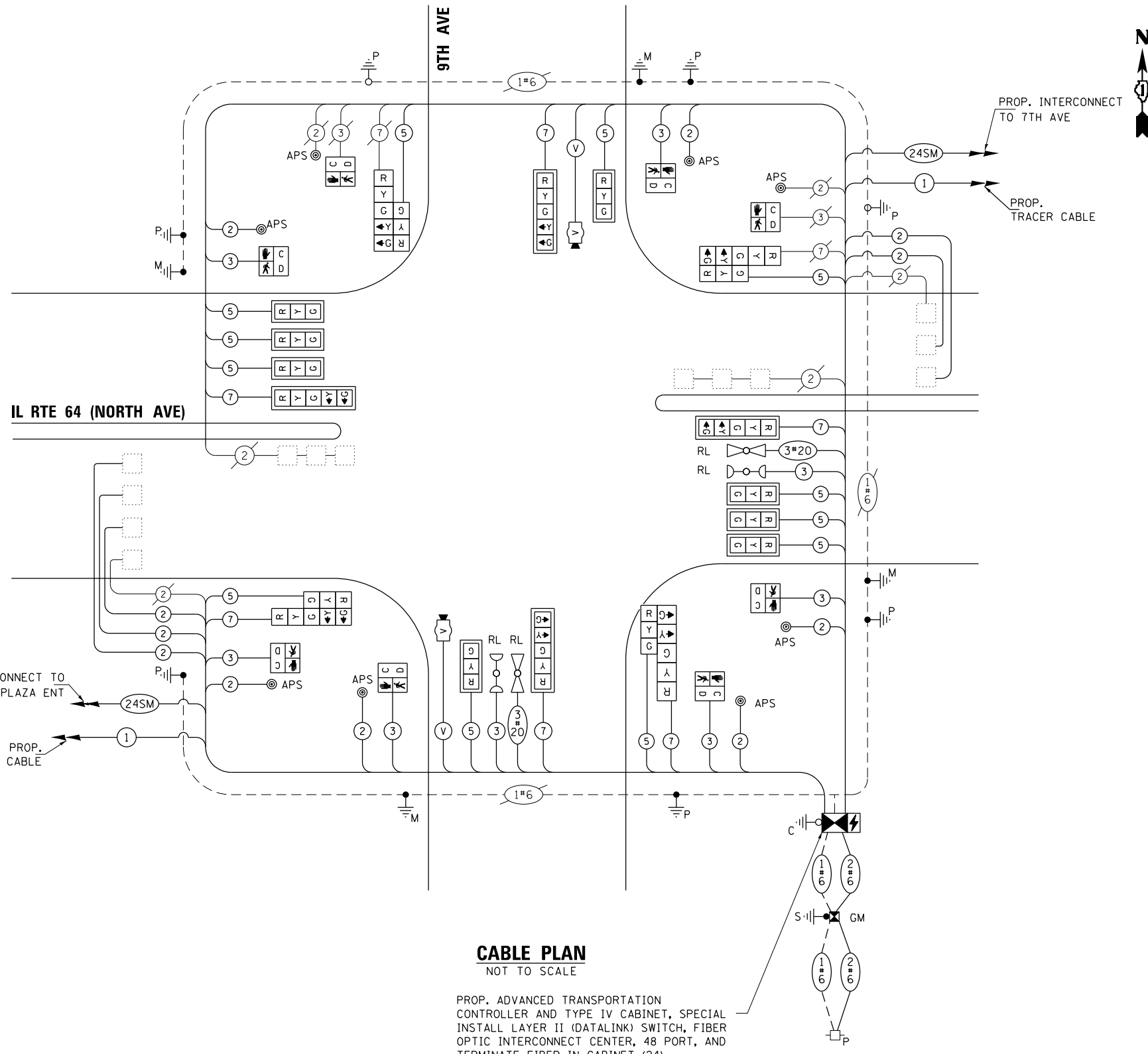
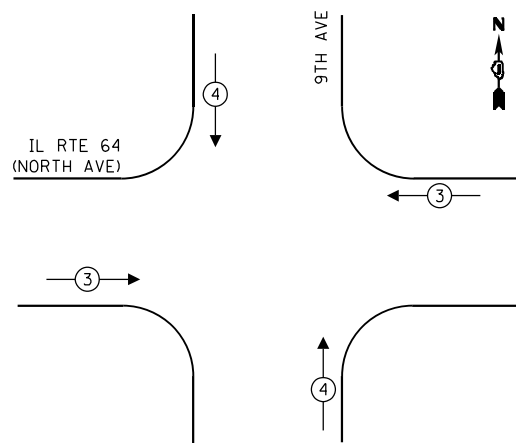
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN

NOT TO SCALE

PROP. ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER IN CABINET (24)

NOTES:

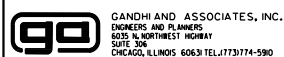
- 1. ONLY RED SIGNAL FACES SHALL HAVE LENS COVER INSTALLED.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	12	11	132
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			606
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1211

ENERGY COSTS TO:
 VILLAGE OF MELROSE PARK
 1000 N 25TH AVE
 MELROSE PARK, IL 60160
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630)-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 08190-18007
 METER NUMBER:

FILE NAME = ...



USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 PLOT SCALE = 40.0000' / in.
 CHECKED - MS
 DATE - 3/22/2024

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 REVISED -

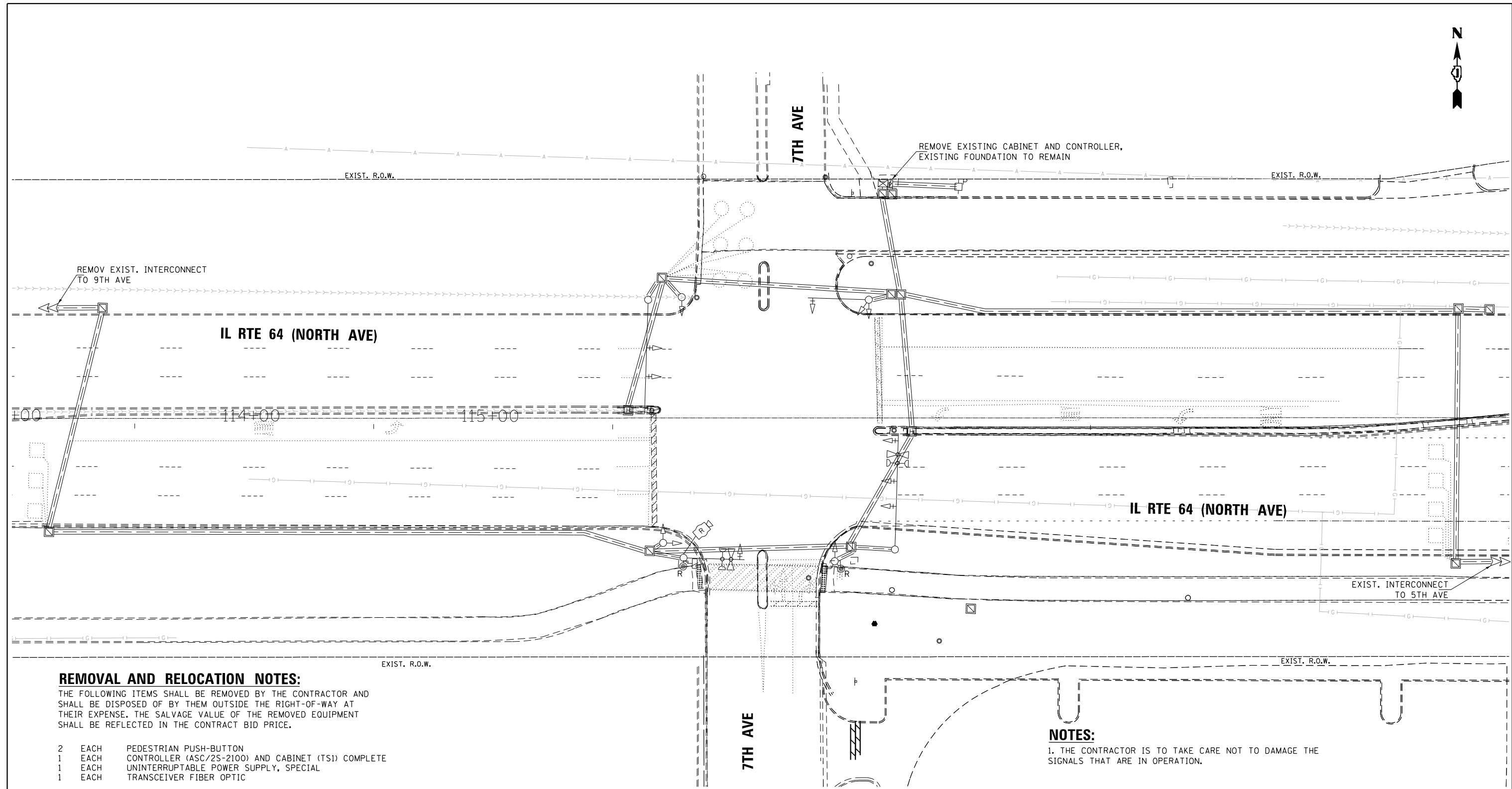
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL RTE 64 (NORTH AVE) AT 9TH AVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	223
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT				

**TS 3010
 IDOT CENTRACS
 FORMER ECON 100**



REMOVAL AND RELOCATION NOTES:

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

- 2 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH CONTROLLER (ASC/2S-2100) AND CABINET (TS1) COMPLETE
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

1. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.

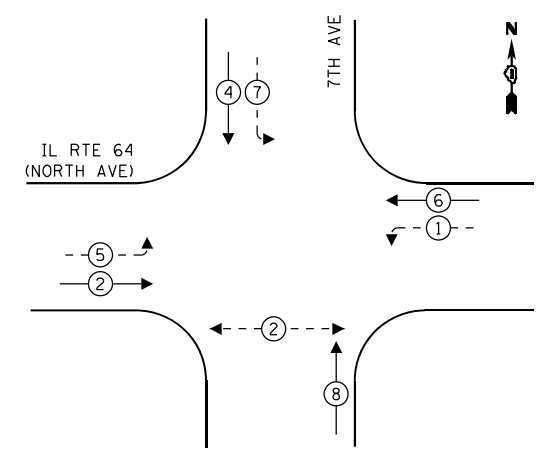
FILE NAME = p:\h-p\p-bent\legucom\h-p\p-01\Documents\01 Active Projects\WH-CIS-16895100 - IL 64 Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor- Signal\0108121-Int-TS-74.DWG

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: 773/774-590	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL RTE 64 (NORTH AVE) AT 7TH AVE	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 225
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -			CONTRACT NO. 62N40				
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT							
			SCALE: 1"=20'			SHEET NO. OF SHEETS	STA. TO STA.			

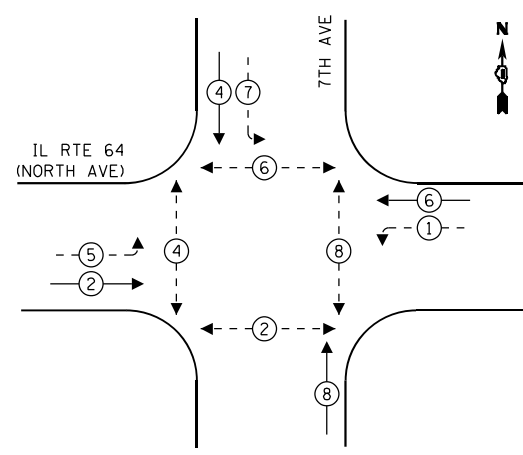
TS 3005
IDOT CENTRACS
FORMER ECON 100

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EXISTING CONTROLLER SEQUENCE

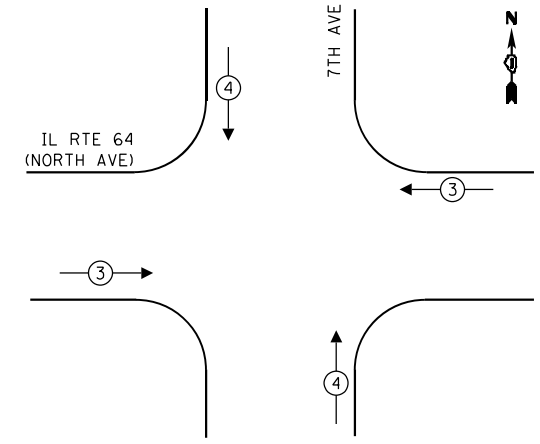


PROPOSED CONTROLLER SEQUENCE



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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

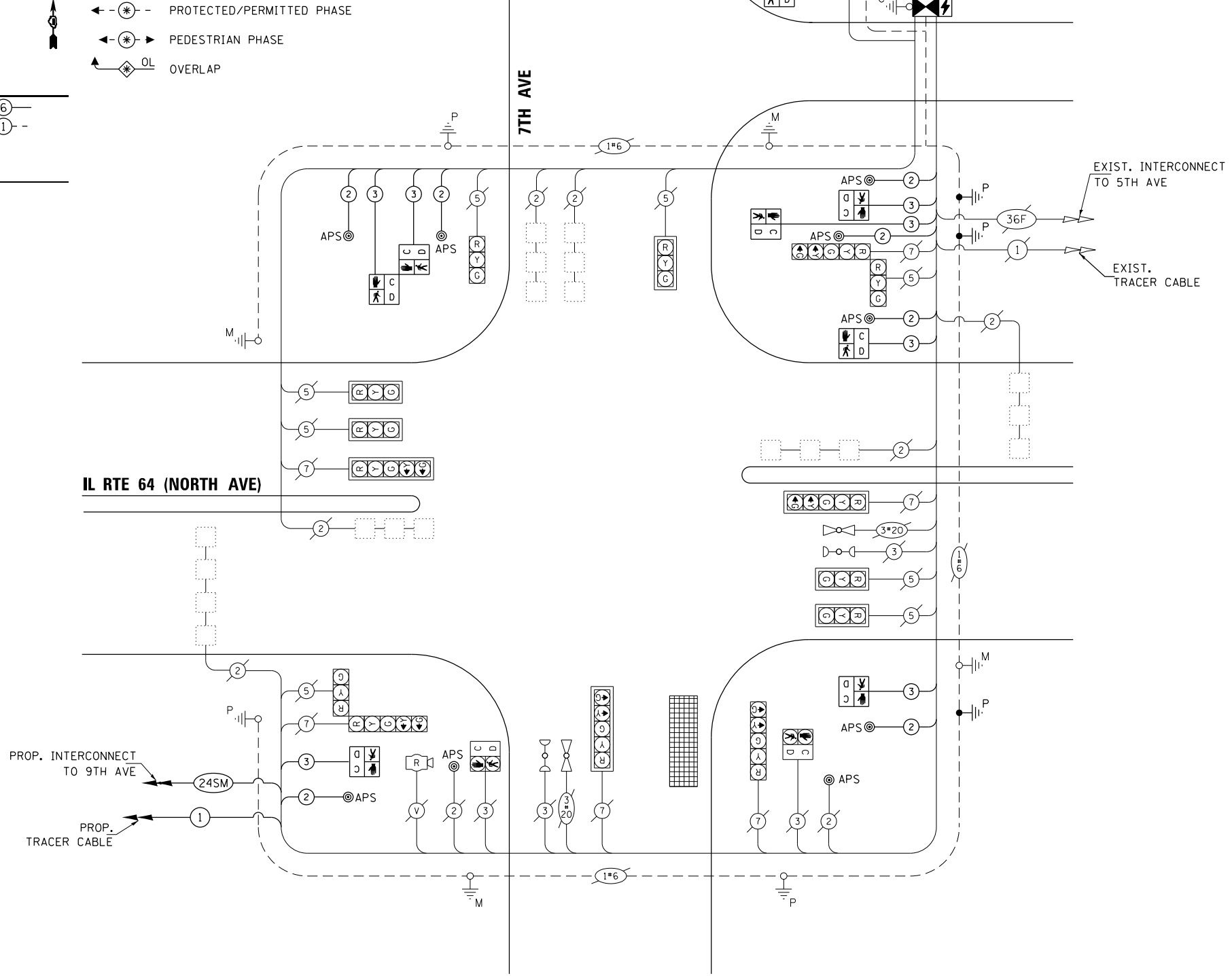


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	8	11	88
4-SECTION	-	14	-
5-SECTION	6	13	78
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	10	15	150
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	1	20	20
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			546
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1151

ENERGY COSTS TO:
 VILLAGE OF MELROSE PARK
 1000 N 25TH AVE
 MELROSE PARK, IL 60160
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630)-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 08190-18007
 METER NUMBER:

PROP. ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER IN CABINET



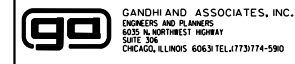
CABLE PLAN
NOT TO SCALE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL RTE 64 (NORTH AVE) AT 7TH AVE
 SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	227
CONTRACT NO. 62N40				

TS 3005
IDOT CONTRACS
FORMER ECON 100



USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 PLOT SCALE = 48.0000' / in.
 CHECKED - MS
 DATE - 3/22/2024

REVISED -
 REVISED -
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 REVISED -

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

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.0	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	52
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1235
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1291
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	60
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	176
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	6
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16

* 100% COST TO THE VILLAGE OF MELROSE PARK

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USER NAME = joel.turk	DESIGNED - AMK	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN - JJT	REVISED -
PLOT DATE = 3/22/2024	CHECKED - SS	REVISED -
	DATE - 3/22/2024	REVISED -

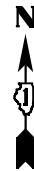
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND 7TH AVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	228
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

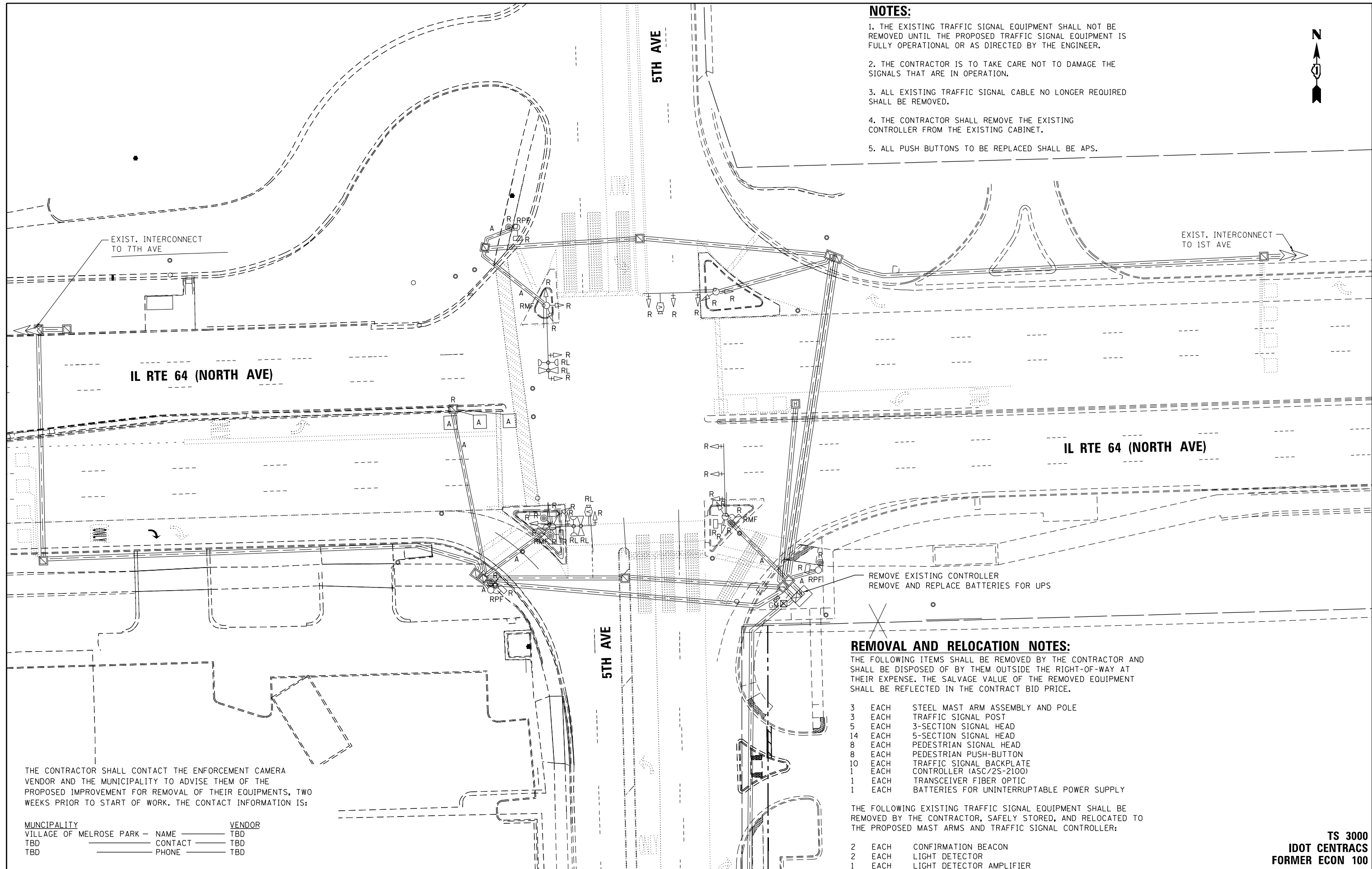
**TS 3005
IDOT CENTRACS
FORMER ECON 100**

SCALE: SHEET 1 OF SHEETS STA. TO STA.



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER FROM THE EXISTING CABINET.
5. ALL PUSH BUTTONS TO BE REPLACED SHALL BE APS.



REMOVAL AND RELOCATION NOTES:

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

- 3 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH TRAFFIC SIGNAL POST
- 5 EACH 3-SECTION SIGNAL HEAD
- 14 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH CONTROLLER (ASC/25-2100)
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

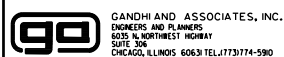
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

THE CONTRACTOR SHALL CONTACT THE ENFORCEMENT CAMERA VENDOR AND THE MUNICIPALITY TO ADVISE THEM OF THE PROPOSED IMPROVEMENT FOR REMOVAL OF THEIR EQUIPMENTS, TWO WEEKS PRIOR TO START OF WORK. THE CONTACT INFORMATION IS:

MUNICIPALITY	NAME	VENDOR
VILLAGE OF MELROSE PARK	TBD	TBD
TBD	CONTACT	TBD
TBD	PHONE	TBD

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USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
DRAWN - AV, EA	DRAWN - AV, EA	REVISED -
CHECKED - MS	CHECKED - MS	REVISED -
DATE - 3/22/2024	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

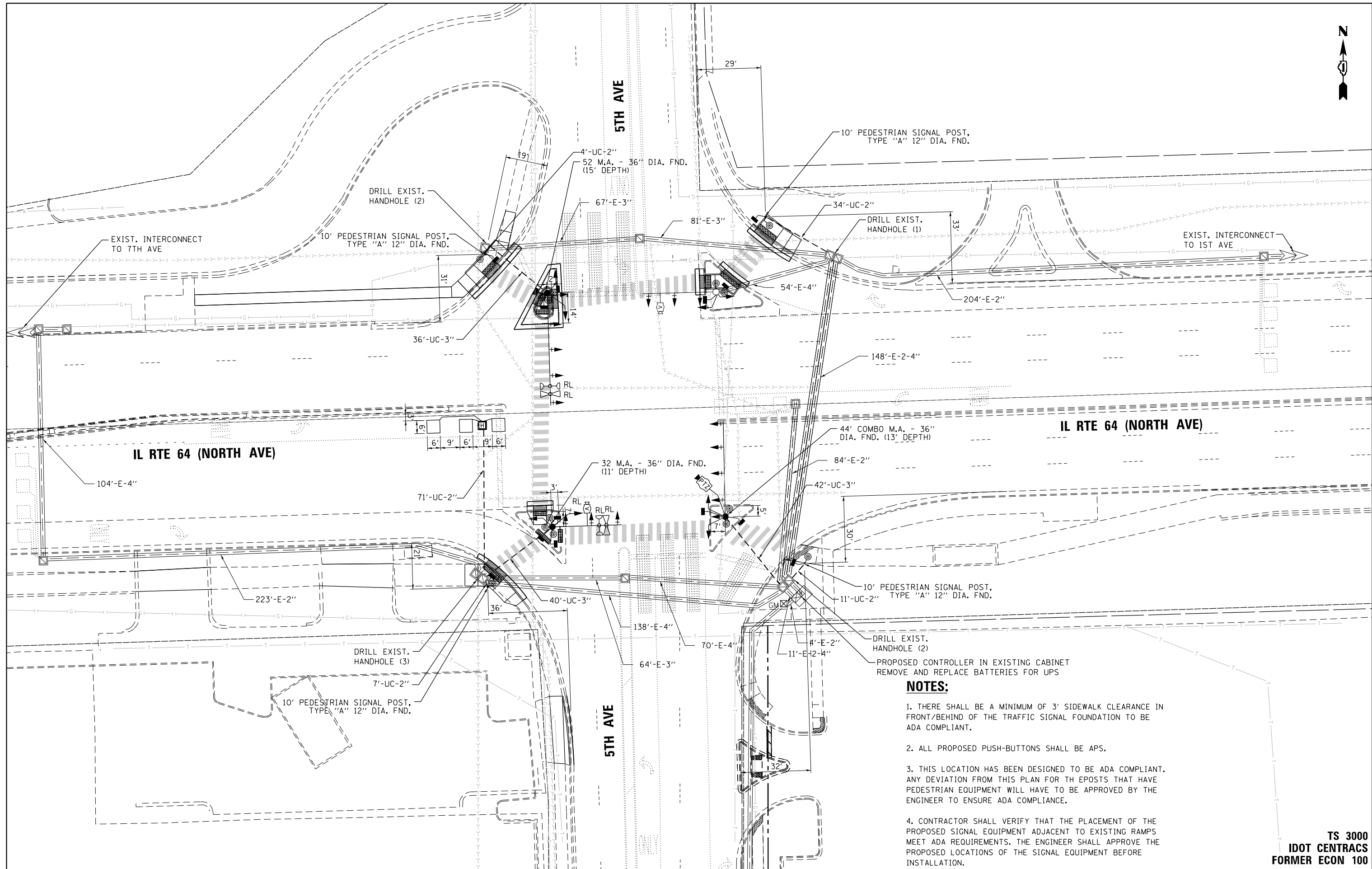
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT 5TH AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	229
CONTRACT NO. 62N40				

TS 3000
IDOT CENTRACS
FORMER ECON 100

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



- NOTES:**
1. THERE SHALL BE A MINIMUM OF 3' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATION TO BE ADA COMPLIANT.
 2. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
 3. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR TH EPOSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
 4. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

**TS 3000
IDOT CENTRACS
FORMER IUC 100**

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DRAWN - AV, EA	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

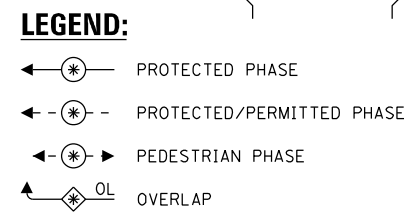
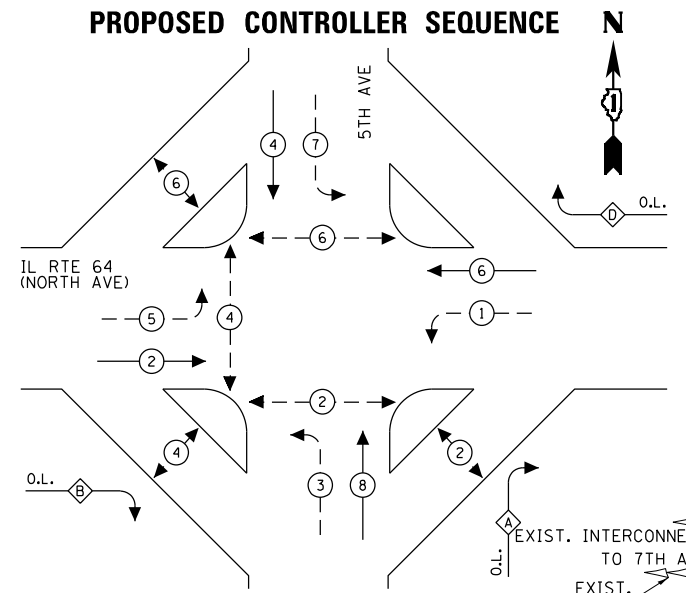
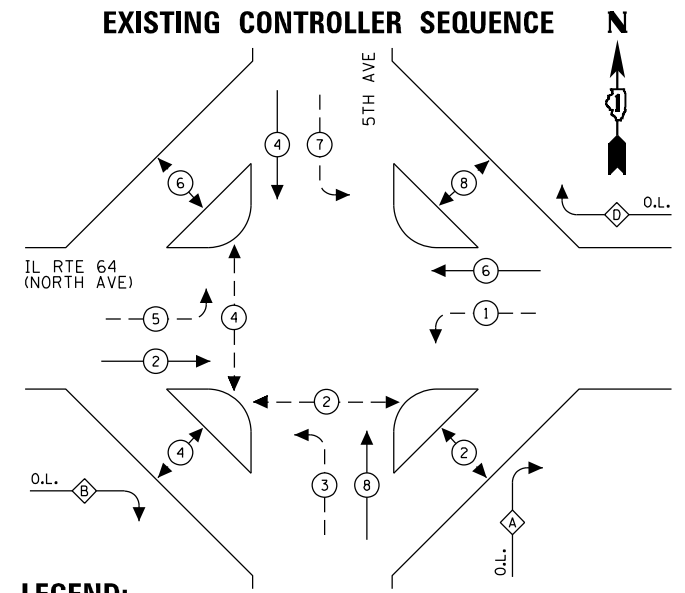
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT 5TH AVE**

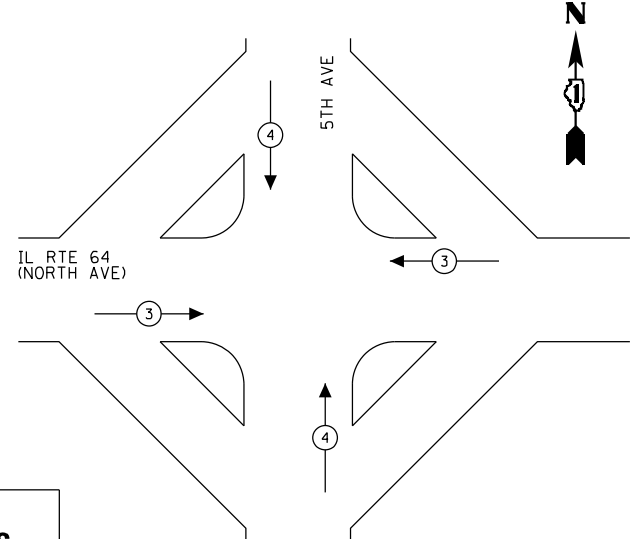
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	230
CONTRACT NO. 62N40			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

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EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

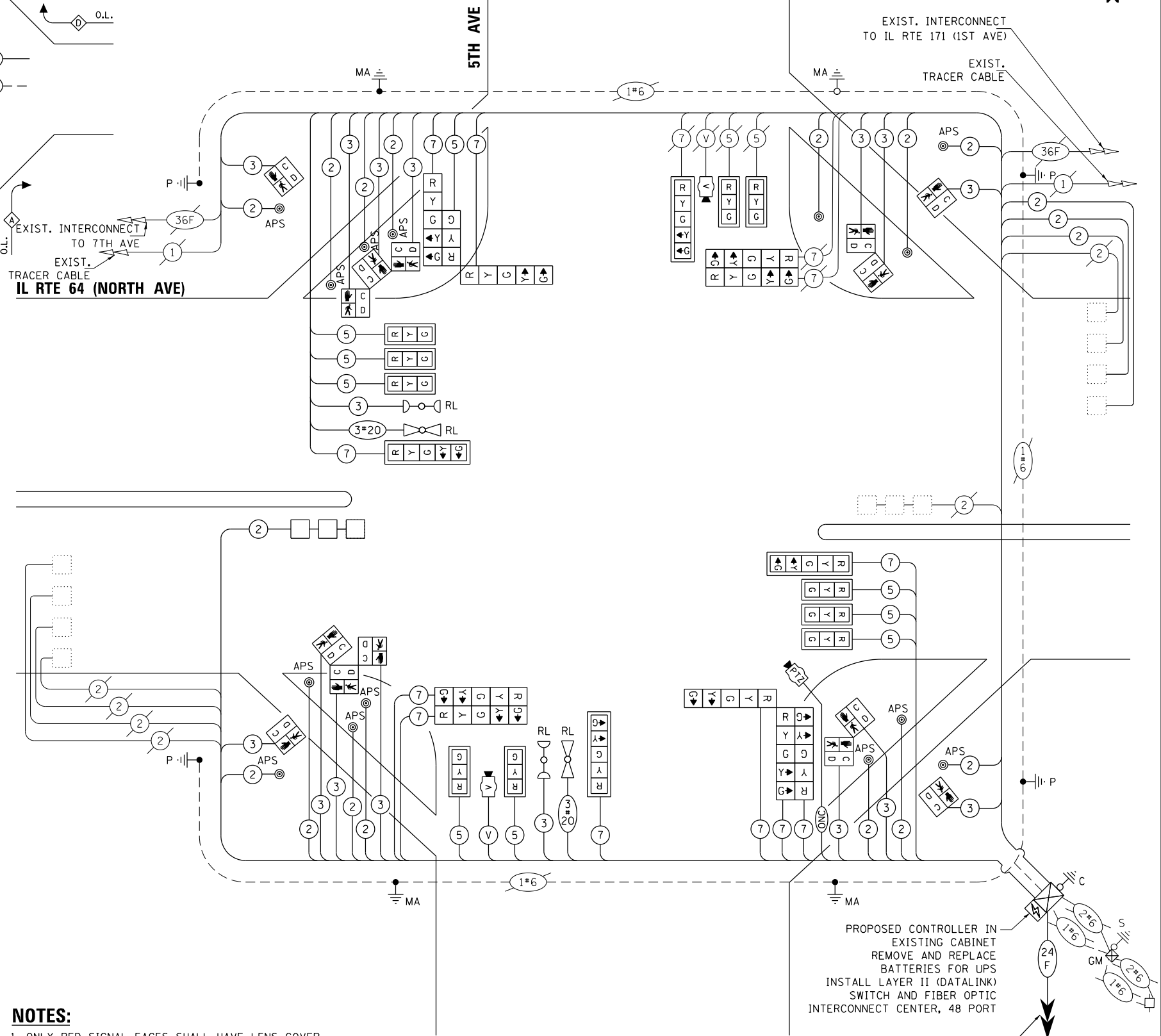
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 8	+ 1
B	= 2	+ 3
D	= 6	+ 7

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	11	11	132
4-SECTION	-	14	-
5-SECTION	13	13	169
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	14	15	210
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			761
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1366

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: COMED
 PHONE: (855)-433-2700
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 05431-37239
 METER NUMBER:

NOTES:
 1. ONLY RED SIGNAL FACES SHALL HAVE LENS COVER INSTALLED.



CABLE PLAN
NOT TO SCALE

PROPOSED CONTROLLER IN EXISTING CABINET REMOVE AND REPLACE BATTERIES FOR UPS INSTALL LAYER II (DATALINK) SWITCH AND FIBER OPTIC INTERCONNECT CENTER, 48 PORT
 PROP LATERAL TO COMMS VAULT

TS 3000 IDOT CONTRACS FORMER ECON 100

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL RTE 64 (NORTH AVE) AT 5TH AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	231
CONTRACT NO. 62N40				

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

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
	CHECKED - MS	REVISED -
	DATE - 3/22/2024	REVISED -

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

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

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.0	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SO FT	12
SIGN PANEL - TYPE 2	SO FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	128
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	118
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3351
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4155
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2533
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2379
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1459
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	253
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	101
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	14251
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	715
CENTRACS LICENSE EXPANSION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	111
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	14
LED SIGNAL FACE, LENS COVER	EACH	24
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1

* 100% COST TO THE VILLAGE OF MELROSE PARK

MODEL: Default FILE NAME: p:\utp\pvc\hantley\com\hantley\pvc\pvc\01\Documents\01_Active\Projects\MK\CHS-16895\1.00 - IL_64\Phase_III\2_Design\CAD\Plan_Sheets\WOT\East_Corridor\118121_sht-S15-18_KHA.dgn



© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
4001 WILSON ROAD, SUITE 600
WARREN, ILL. 60555
PHONE: (847) 488-8888
WWW.KIMLEY-HORN.COM

USER NAME = joel.turk	DESIGNED - AMK	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - SS	REVISED -
PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND 5TH AVE**

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	232
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

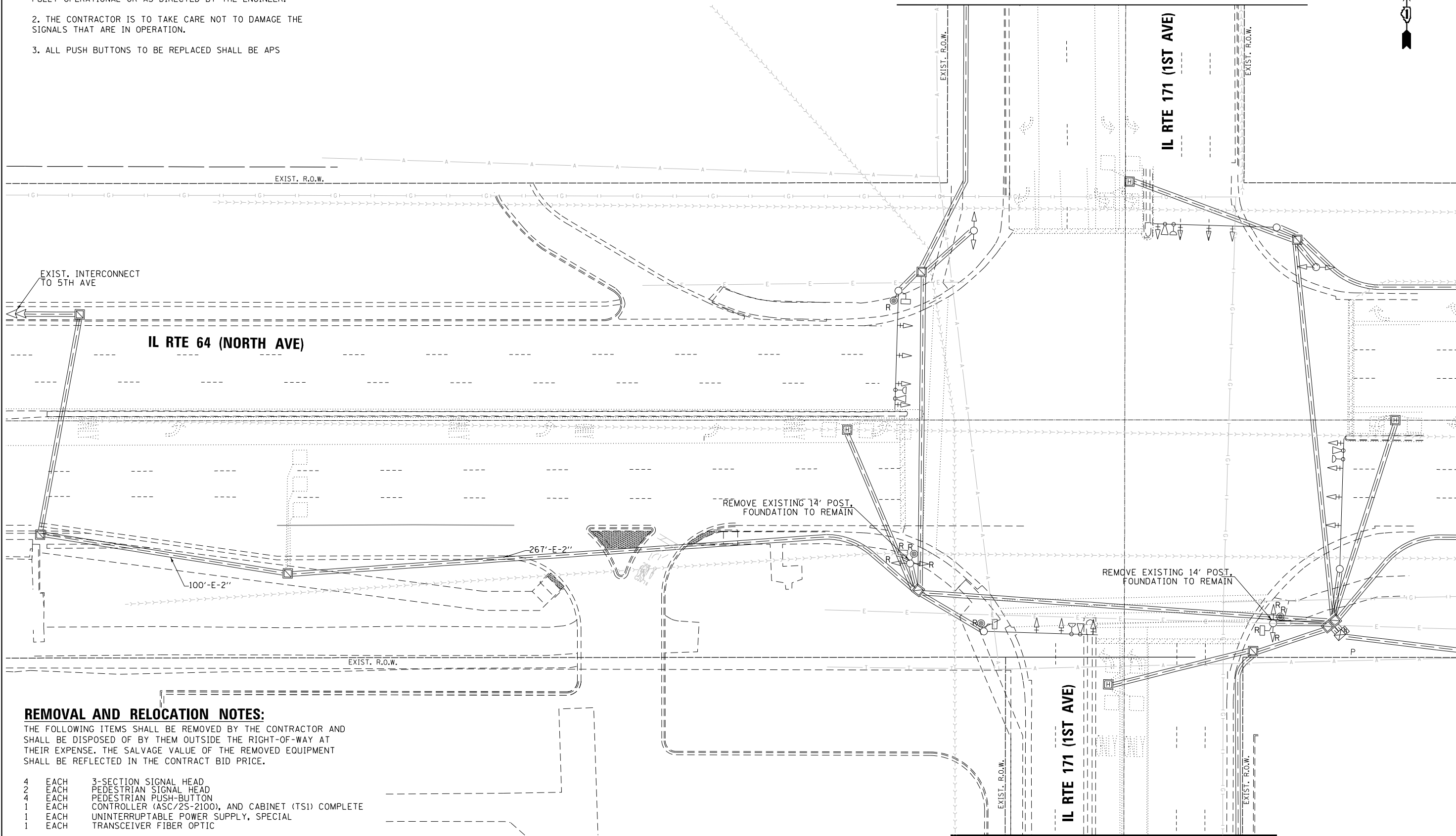
**TS 3000
IDOT CENTRACS
FORMER ECON 100**

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. ALL PUSH BUTTONS TO BE REPLACED SHALL BE APS



MATCH LINE "A" FOR CONTINUOUS SEE NEXT SHEET



MATCH LINE "B" FOR CONTINUOUS SEE NEXT SHEET

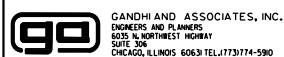
MATCH LINE "C" FOR CONTINUOUS SEE NEXT SHEET

REMOVAL AND RELOCATION NOTES:

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

- 4 EACH 3-SECTION SIGNAL HEAD
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH CONTROLLER (ASC/2S-2100), AND CABINET (TS1) COMPLETE
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

FILE NAME = p:\1\h-pa-bent\legucom\h-pa-01\Documents\01 Active Projects\W-CHS-16695100 - IL 64 Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\1008121-Int-15-00.dwg



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

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
DRAWN - AV, EA	REVISED -	
CHECKED - MS	REVISED -	
DATE - 3/22/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT IL RTE 171 (1ST AVE) (SHEET 1 OF 2)**

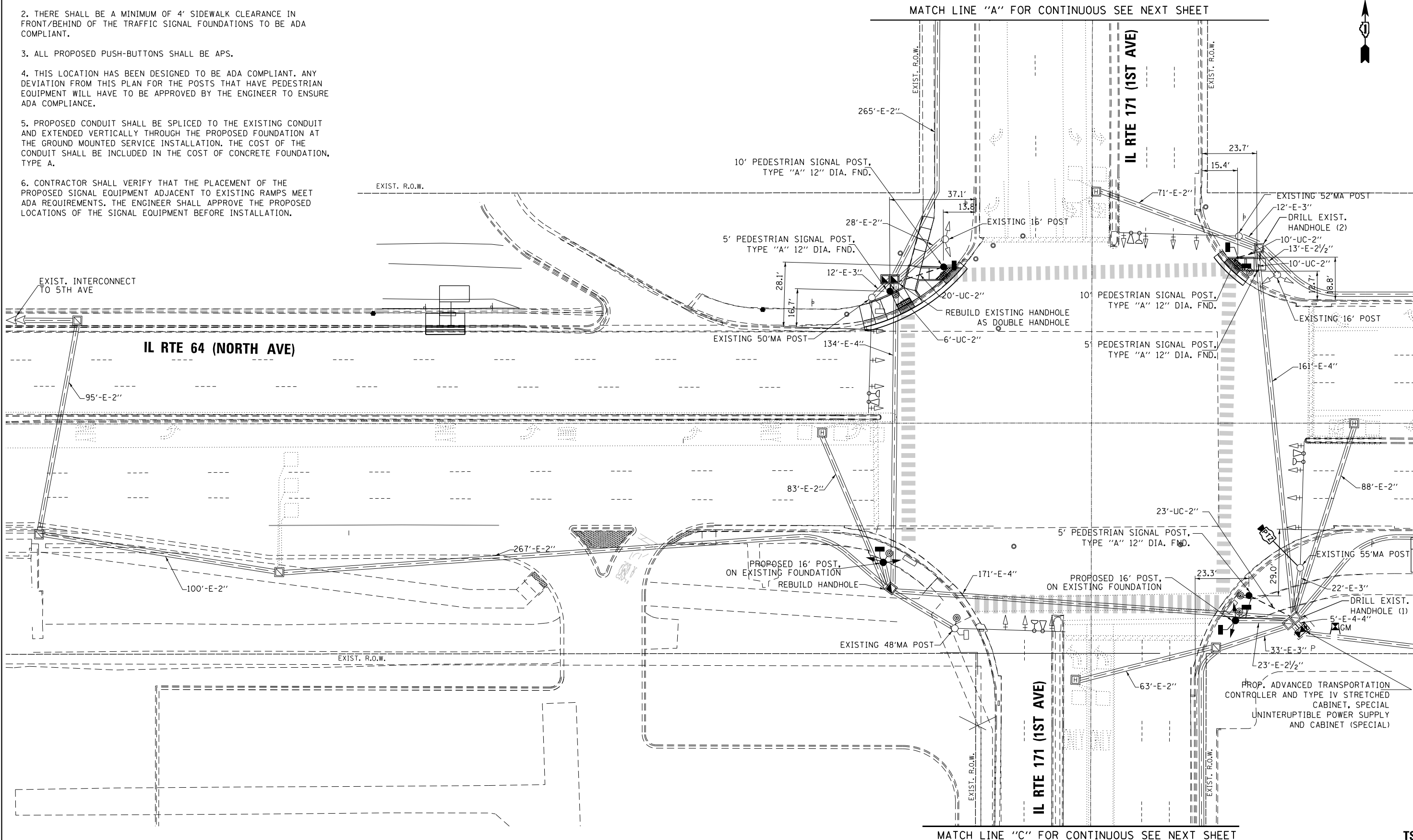
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	233
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 2995
IDOT CENTRACS
FORMER ECON 100**

NOTES:

1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
2. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
3. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
5. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE INSTALLATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.
6. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.



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MATCH LINE "B" FOR CONTINUOUS SEE NEXT SHEET



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	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

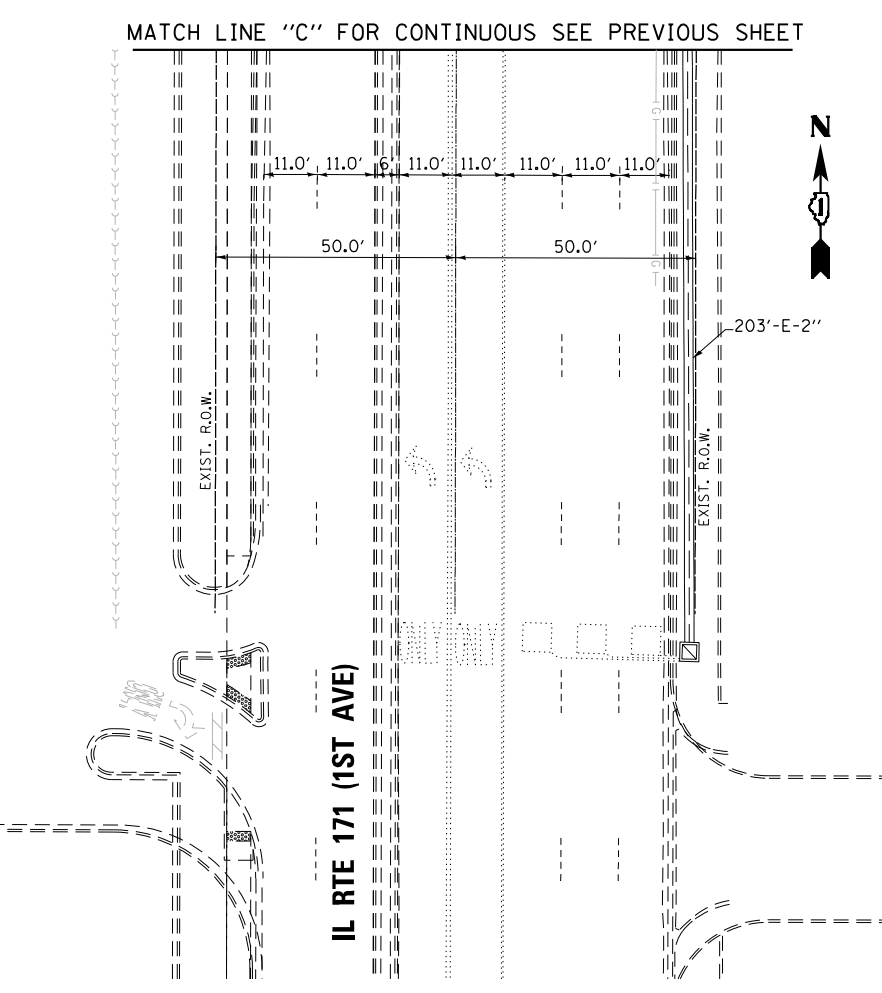
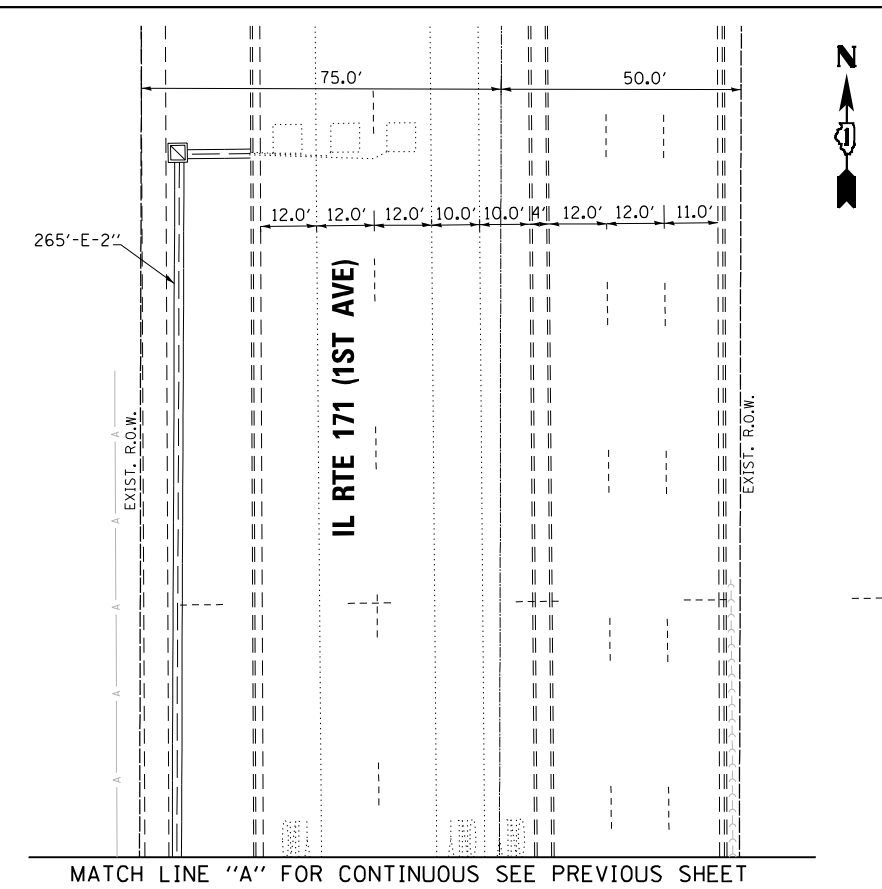
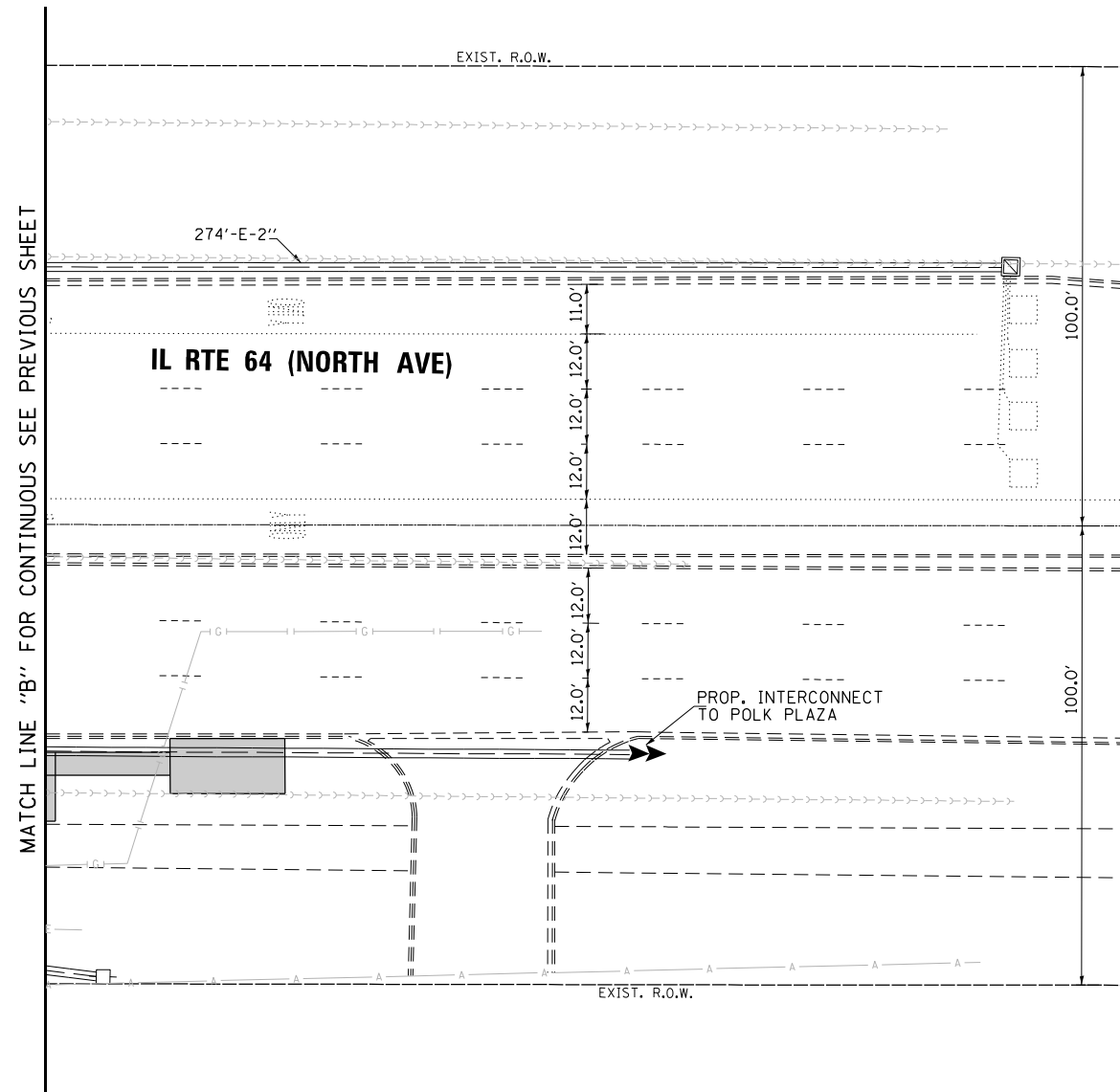
**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT IL RTE 171 (1ST AVE) (SHEET 1 OF 2)**

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

**TS 2995
IDOT CENTRACS
FORMER ECON 100**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	235
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

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GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5015 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$
DESIGNED - AV, EA
DRAWN - AV, EA
CHECKED - MS
DATE - 3/22/2024

REVISED -
REVISED -
REVISED -
REVISED -

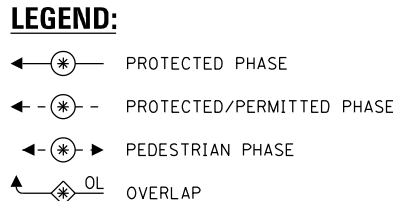
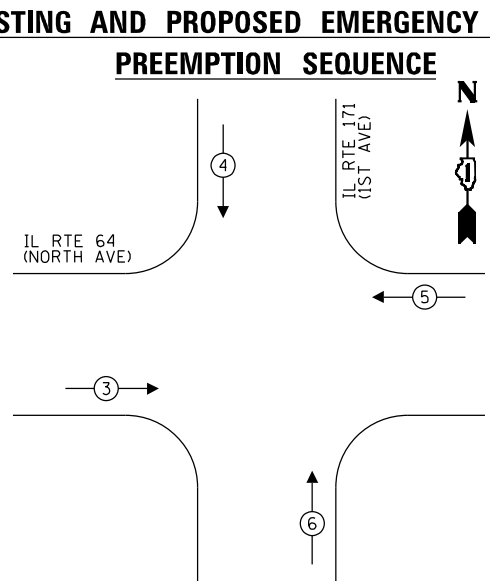
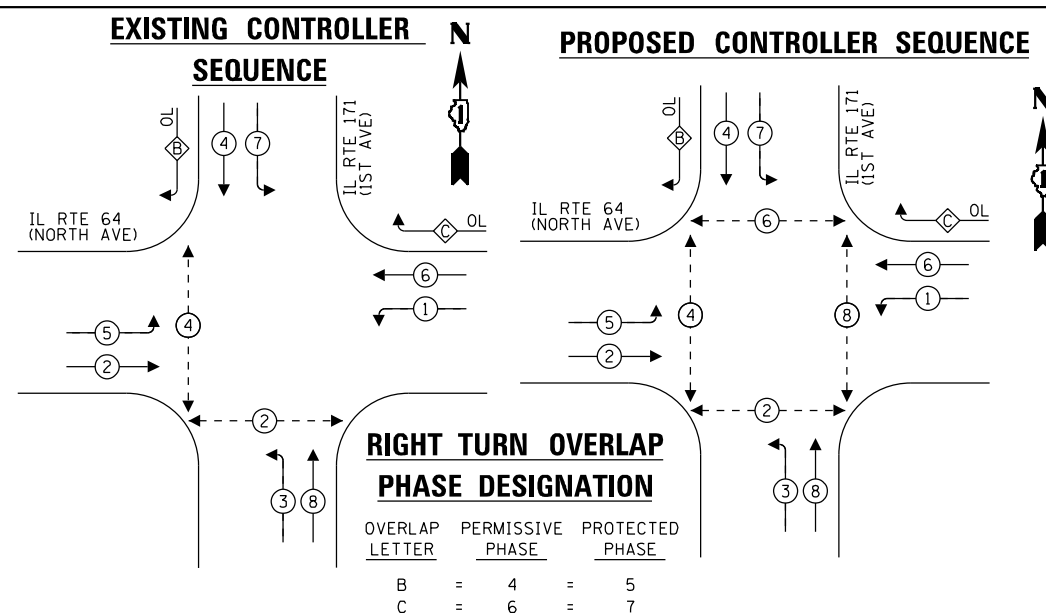
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT IL RTE 171 (1ST AVE) (SHEET 2 OF 2)
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	236
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 2995
IDOT CENTRACS
FORMER ECON 100

FILE NAME = per:\h-pw-bent\gucemh-pw-01\Documents\01 Active Projects\WV-CIS-168959100 - IL 64\Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor- Signal\1088121-int-15-84-CAL.DGN



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	20	11	220
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			602
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1207

LEGEND:

L = LED SIGNAL MODULE REPLACEMENT

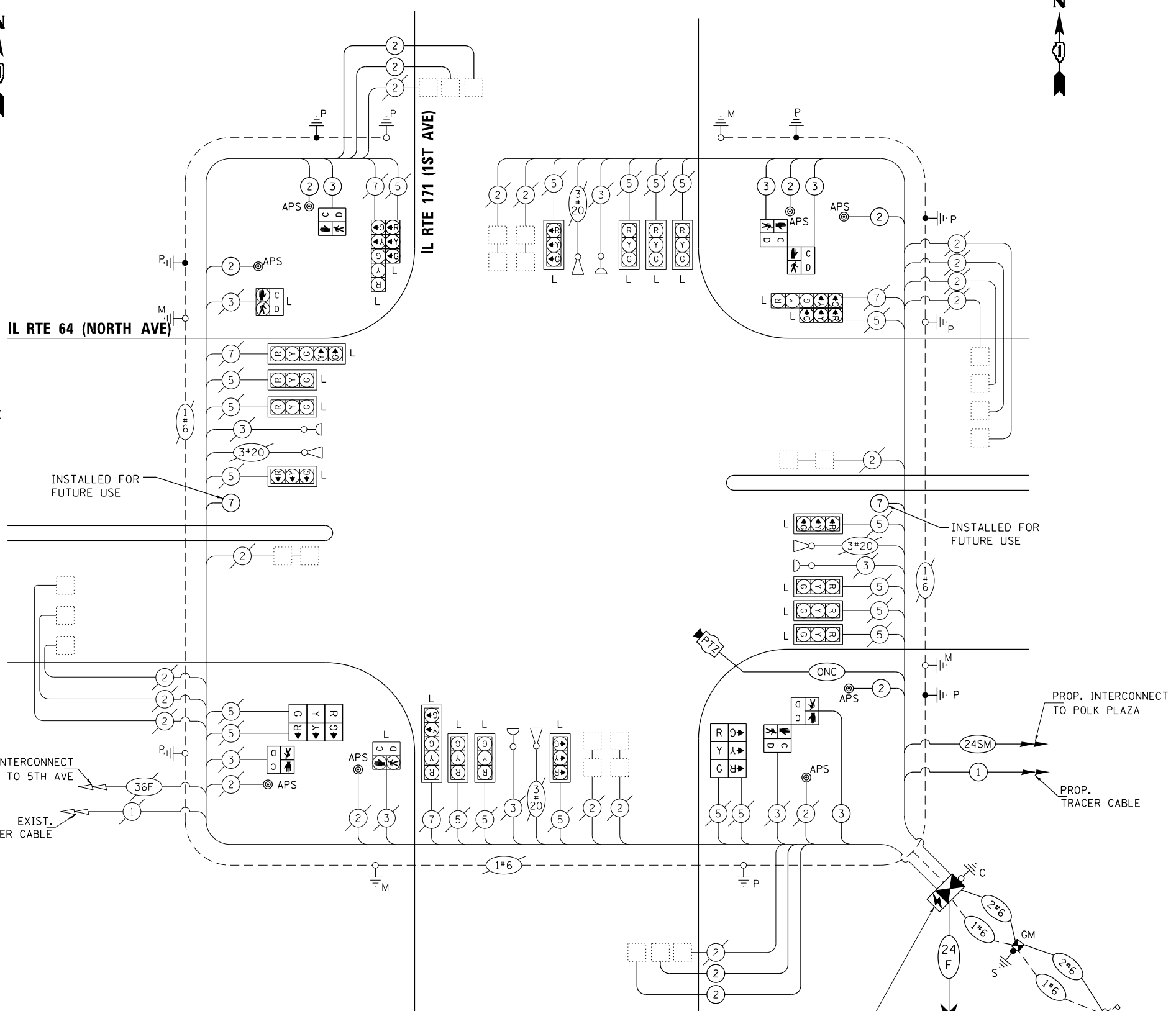
LED SIGNAL MODULE REPLACEMENT

LED SIGNAL RED BALL	14
LED SIGNAL YELLOW BALL	14
LED SIGNAL GREEN BALL	14
LED SIGNAL RED ARROW	6
LED SIGNAL YELLOW ARROW	10
LED SIGNAL GREEN ARROW	10
LED PEDESTRIAN SIGNAL	2

ENERGY COSTS TO:

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

ENERGY SUPPLY: CONTACT: COMED
 PHONE: (855)-433-2700
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 05431-37239
 METER NUMBER:



NOTES:

1. ONLY RED SIGNAL FACES SHALL HAVE LENS COVER INSTALLED.



USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 PLOT SCALE = 40.0000' / in.
 CHECKED - MS
 DATE - 3/22/2024

REVISED -
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 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

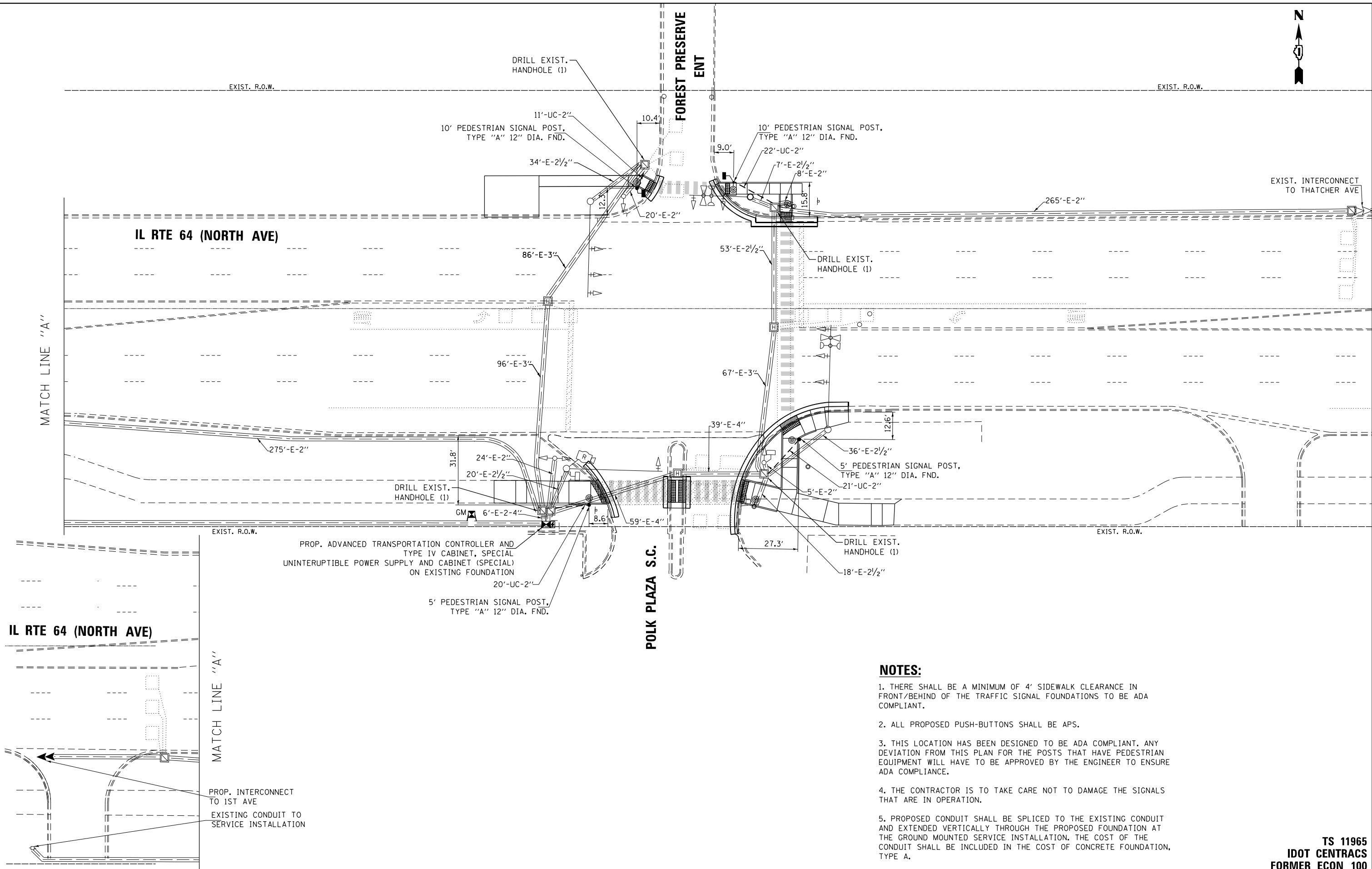
MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE) AT IL RTE 171 (1ST AVE)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	237
CONTRACT NO. 62N40				

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

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

TS 2995
IDOT CENTRACS
FORMER ECON 100



NOTES:

1. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
2. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
3. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
4. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
5. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE INSTALLATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.

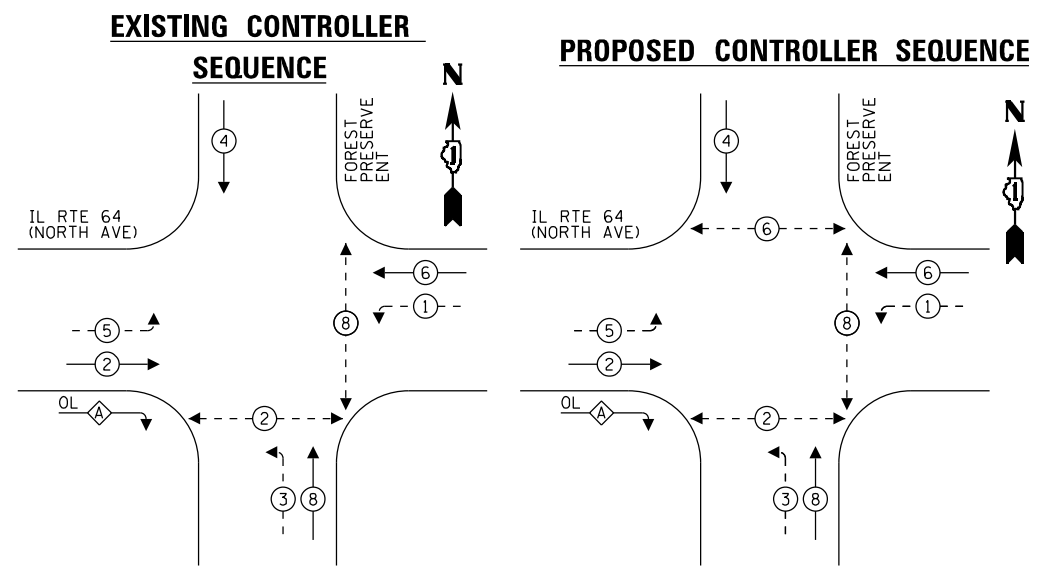
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	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 64 (NORTH AVE) AT POLK PLAZA S.C./FOREST PRESERVE ENT	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 240
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -			DATE - 3/22/2024	SCALE: 1"=20'	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 62N40	

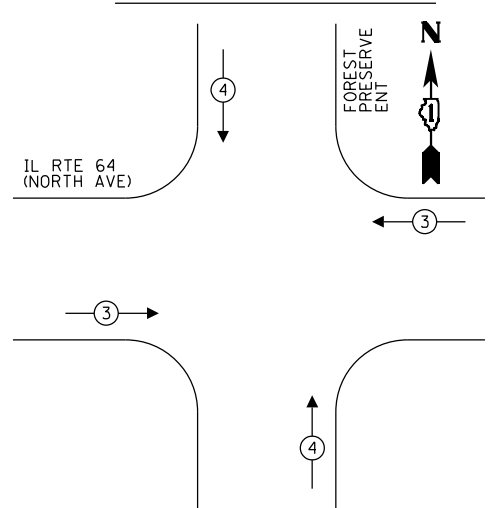
TS 11965
IDOT CENTRACS
FORMER ECN 100

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

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 PROJECT: IL 64 Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\0108121-int-15-87.dwg



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



- LEGEND:**
- ← * → PROTECTED PHASE
 - ← - * - → PROTECTED/PERMITTED PHASE
 - ← * → PEDESTRIAN PHASE
 - ← * → OL OVERLAP

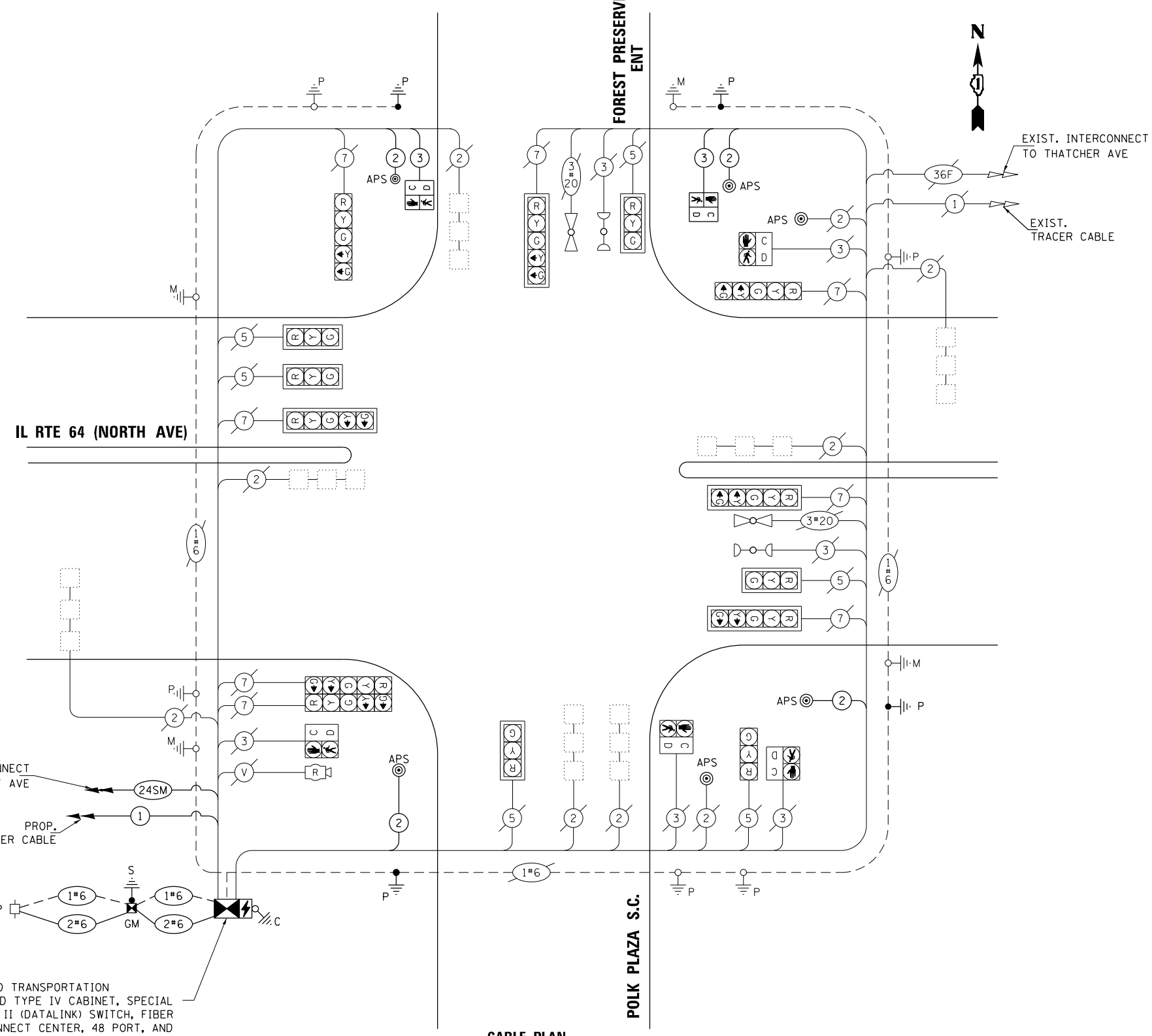
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	6	11	66
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	1	20	20
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			490
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1095

ENERGY COSTS TO:
 VILLAGE OF MELROSE PARK
 1000 N 25TH AVE
 MELROSE PARK, IL 60160
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630)-424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 08190-18007
 METER NUMBER:



CABLE PLAN
NOT TO SCALE

PROP. ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER IN CABINET (24)

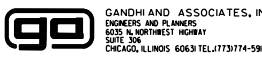
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE) AT POLK PLAZA S.C./FOREST PRESERVE ENT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	241

CONTRACT NO. 62N40

TS 11965
IDOT CENTRACS
FORMER ECON 100



USER NAME = \$USER\$
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 DRAWN - AV, EA
 PLOT SCALE = 48.0000' / in.
 CHECKED - MS
 PLOT DATE = \$DATE\$
 DATE - 3/22/2024

REVISIONS:
 REVISION -
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 REVISION -
 REVISION -

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

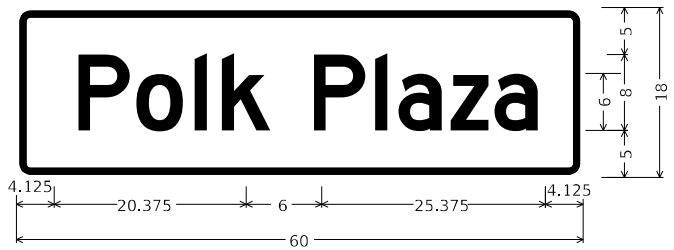
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	74
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	752
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	505
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	326
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	442
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	7
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	200
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16

* 100% COST TO THE VILLAGE OF MELROSE PARK

MODEL: Default; FILE NAME: p:\utp\pvc\hantley\com\hpa\p4-d1\Documents\01_Active Projects\MM\CHS-16895\1.00 - IL_64\Phase_III\2_Design\CAD\Plan_Sheets\WOT\East_Corridor\118812_sht-SQ-19_KHA.dgn



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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

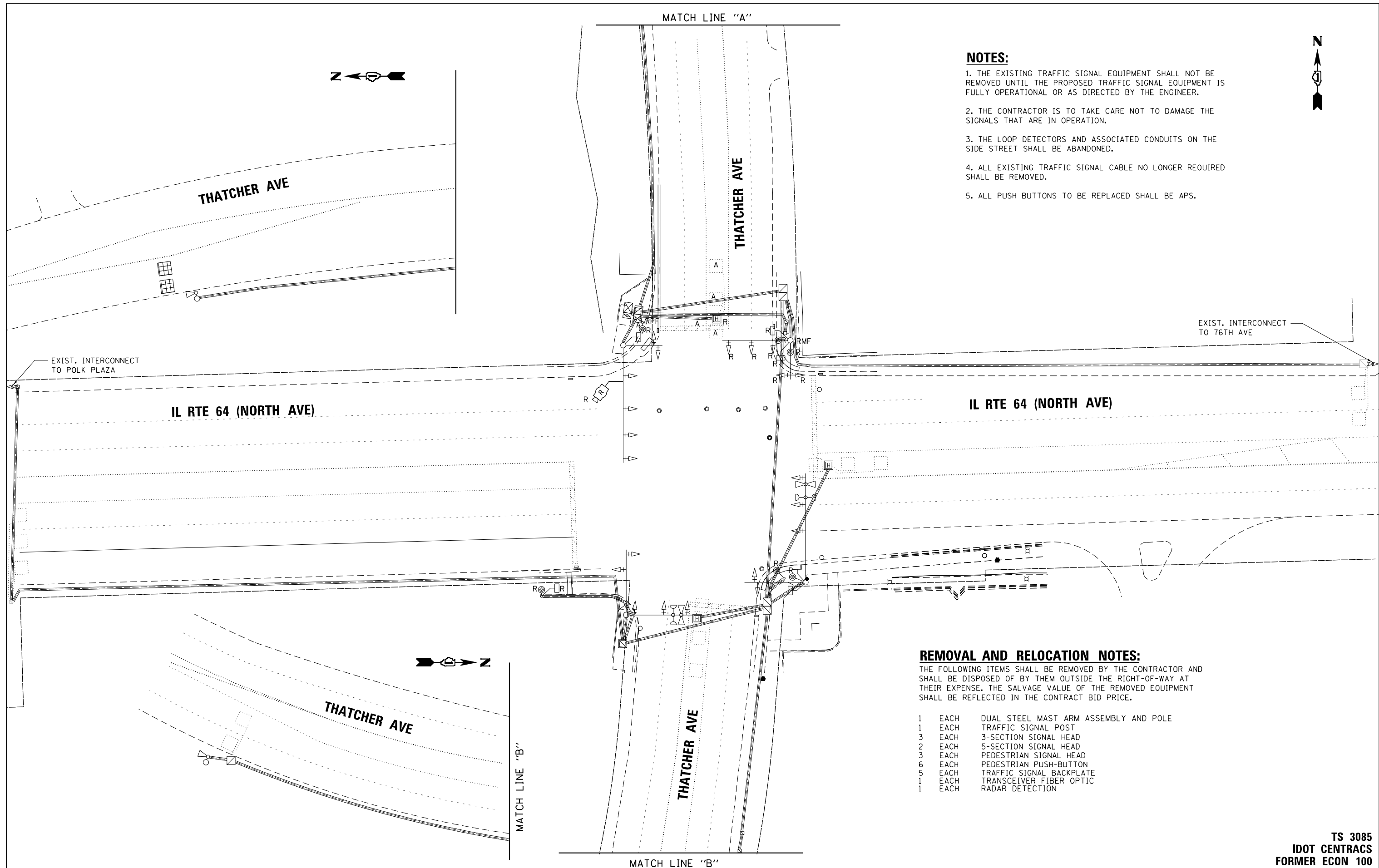
**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND POLK PLAZA**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	242
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

**TS 11965
IDOT CENTRACS
FORMER ECON 100**

SCALE: SHEET 1 OF SHEETS STA. TO STA.

FILE NAME = p:\1\h-p\p\h\g\g\m\h-p\p-01\Documents\01 Active Projects\W\CHS-16695100 - IL 64\Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\1008121-int-15-88.dwg



NOTES:


1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
5. ALL PUSH BUTTONS TO BE REPLACED SHALL BE APS.

REMOVAL AND RELOCATION NOTES:

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

- | | | |
|---|------|---------------------------------------|
| 1 | EACH | DUAL STEEL MAST ARM ASSEMBLY AND POLE |
| 1 | EACH | TRAFFIC SIGNAL POST |
| 3 | EACH | 3-SECTION SIGNAL HEAD |
| 2 | EACH | 5-SECTION SIGNAL HEAD |
| 3 | EACH | PEDESTRIAN SIGNAL HEAD |
| 6 | EACH | PEDESTRIAN PUSH-BUTTON |
| 5 | EACH | TRAFFIC SIGNAL BACKPLATE |
| 1 | EACH | TRANSCEIVER FIBER OPTIC |
| 1 | EACH | RADAR DETECTION |

**TS 3085
IDOT CENTRACS
FORMER ECON 100**

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: 773-774-590	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - AV, EA	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 3/22/2024	REVISED -

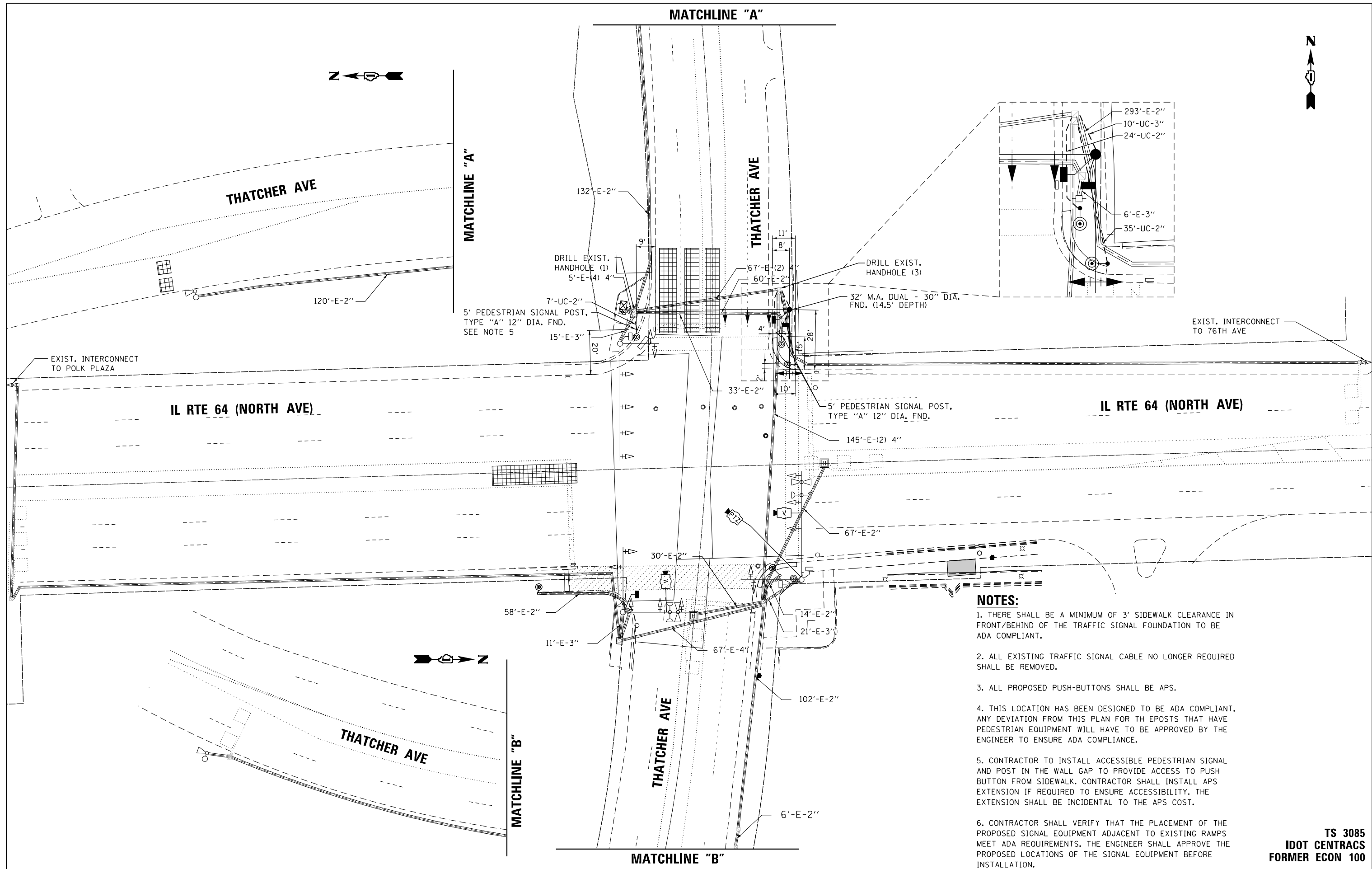
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT THATCHER AVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	243
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

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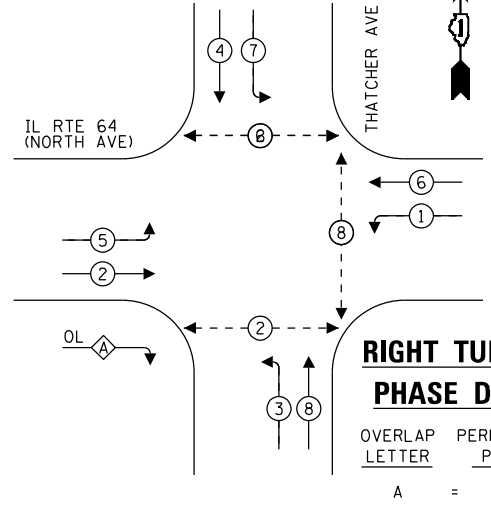
- NOTES:**
1. THERE SHALL BE A MINIMUM OF 3' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATION TO BE ADA COMPLIANT.
 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
 3. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
 4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR TH EPOSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
 5. CONTRACTOR TO INSTALL ACCESSIBLE PEDESTRIAN SIGNAL AND POST IN THE WALL GAP TO PROVIDE ACCESS TO PUSH BUTTON FROM SIDEWALK. CONTRACTOR SHALL INSTALL APS EXTENSION IF REQUIRED TO ENSURE ACCESSIBILITY. THE EXTENSION SHALL BE INCIDENTAL TO THE APS COST.
 6. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

**TS 3085
IDOT CENTRACS
FORMER ECON 100**

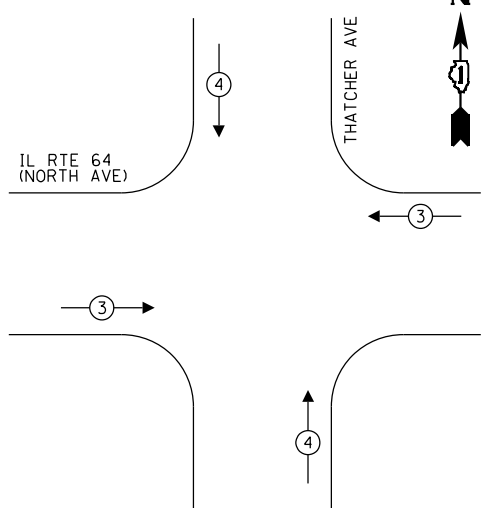
<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: 773-774-590</p>	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 64 (NORTH AVE) AT THATCHER AVE</p>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.	307	2020-263-SUR, SW&TS	COOK
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -					CONTRACT NO. 62N40			FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT		

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EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	11	11	121
4-SECTION	-	14	-
5-SECTION	10	13	130
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			591
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1196

LEGEND:

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

LEGEND:

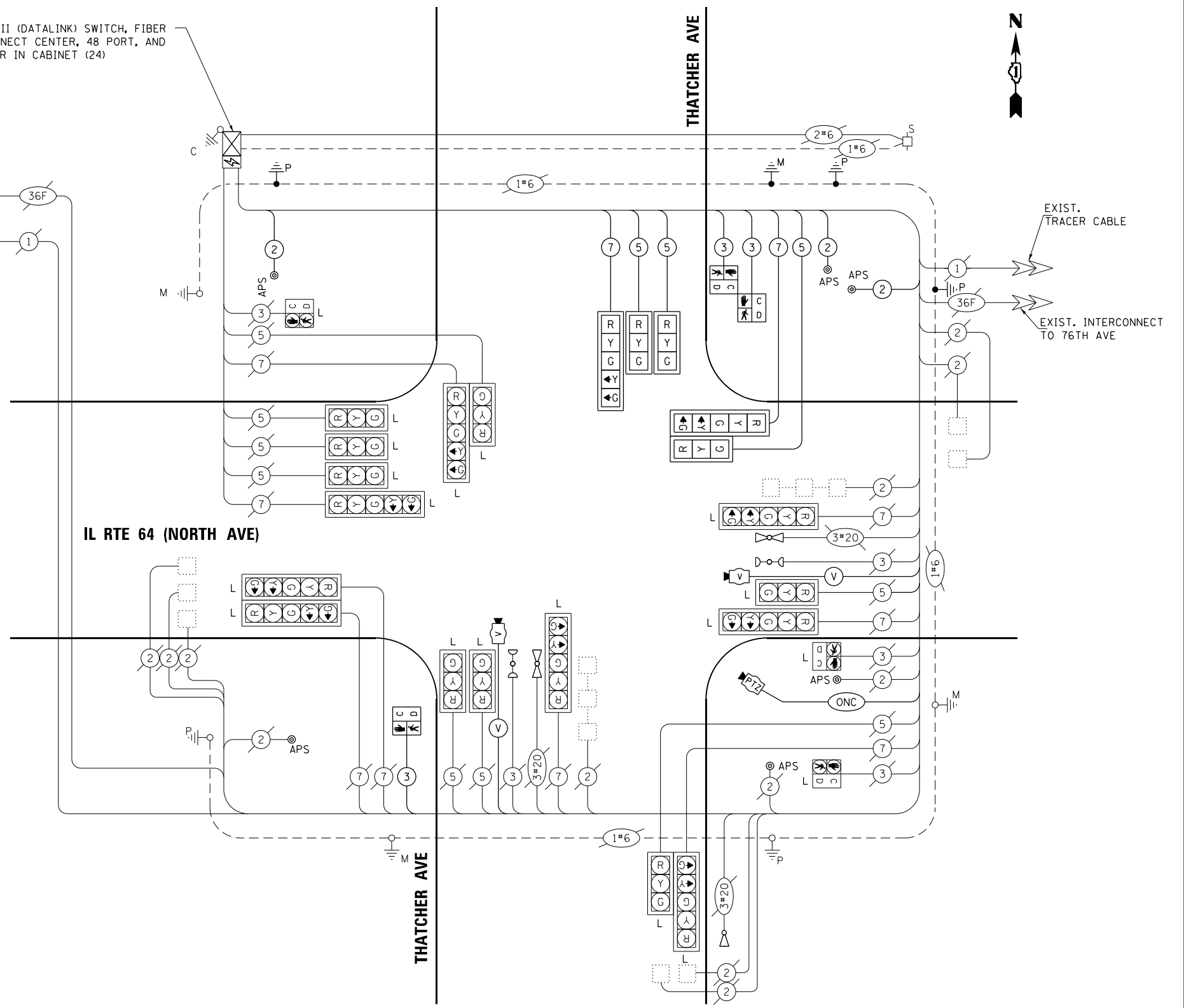
L = LED SIGNAL MODULE REPLACEMENT

LED SIGNAL MODULE REPLACEMENT	
LED SIGNAL RED BALL	16
LED SIGNAL YELLOW BALL	16
LED SIGNAL GREEN BALL	16
LED SIGNAL YELLOW ARROW	8
LED SIGNAL GREEN ARROW	8
LED PEDESTRIAN SIGNAL	3

ENERGY COSTS TO:
 VILLAGE OF ELMWOOD PARK

ENERGY SUPPLY: CONTACT: COMED
 PHONE: (855)-433-2700
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 07071-46058
 METER NUMBER:

INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER IN CABINET (24)



CABLE PLAN
 NOT TO SCALE

NOTES:
 1. ONLY RED SIGNAL FACES SHALL HAVE LENS COVER INSTALLED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE) AT THATCHER AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	245
CONTRACT NO. 62N40				

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

TS 3085
IDOT CONTRACS
FORMER ECON 100

GA GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 308
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 CHECKED - MS
 DATE - 3/22/2024

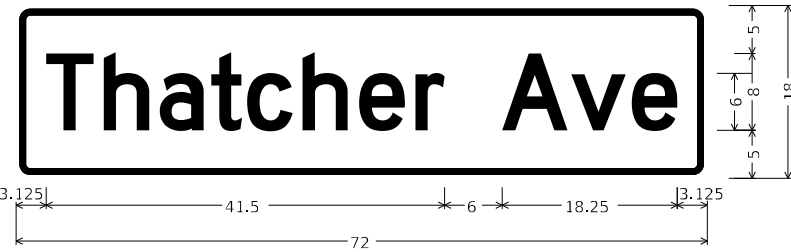
REVISIONS:
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SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SO FT	12.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	66
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	10
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	313
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	252
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	457
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	325
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	128
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	14.5
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1523
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
CENTRACS LICENSE EXPANSION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	302
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
POWER OVER ETHERNET EXTENDER	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
LED SIGNAL FACE, LENS COVER	EACH	21
ELECTRIC METER	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
LED SIGNAL MODULE REPLACEMENT	EACH	64
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	3

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USER NAME = joel.turk	DESIGNED - AMK	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - SS	REVISED -
PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND THATCHER AVE**

F.A.P. RTE. = 307	SECTION = 2020-264-SUR, SW&TS	COUNTY = COOK	TOTAL SHEETS = 492	SHEET NO. = 246
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

**TS 3085
IDOT CENTRACS
FORMER ECON 100**

SCALE: SHEET 1 OF SHEETS STA. TO STA.



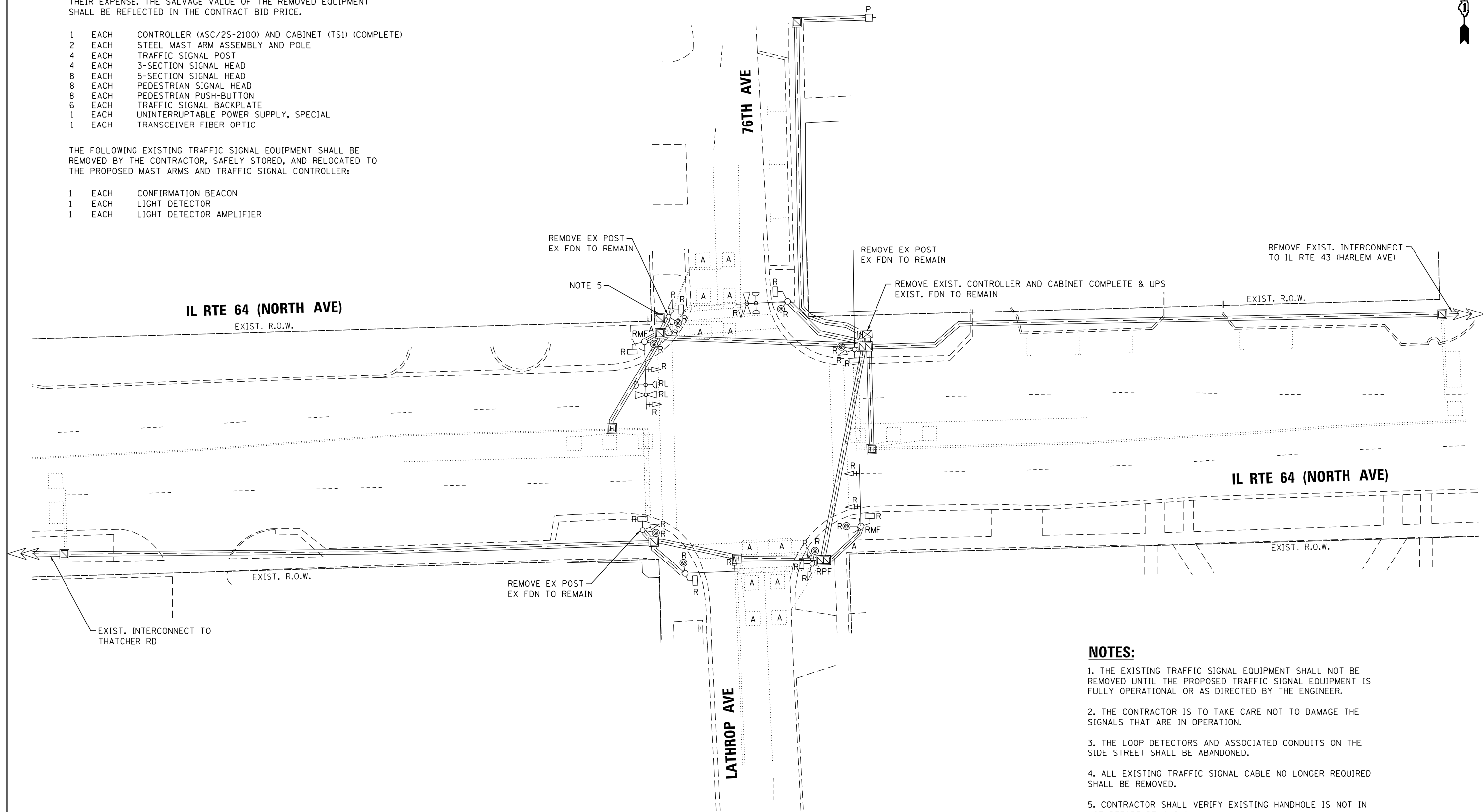
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER (ASC/2S-2100) AND CABINET (TS1) (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 1 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
5. CONTRACTOR SHALL VERIFY EXISTING HANDHOLE IS NOT IN USE BEFORE REMOVING.

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GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 308
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
DRAWN - AV, EA	DRAWN - AV, EA	REVISED -
CHECKED - MS	CHECKED - MS	REVISED -
DATE - 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

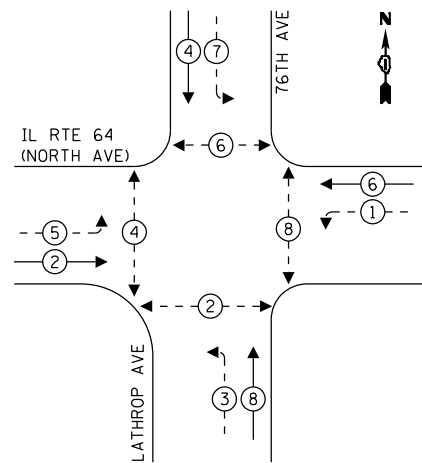
**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 IL RTE 64 (NORTH AVE) AT 76TH AVE (LATHROP AVE)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	247
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 3025
 IDOT CENTRACS
 FORMER ECON 100**

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

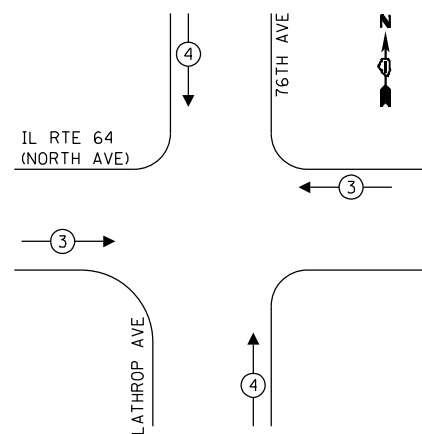
EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROP. ADVANCED TRANSPORTATION AND TYPE IV STRETCHED CABINET, SPECIAL AND INSTALL NEW UPS
 INSTALL LAYER II (DATALINK) SWITCH, FIBER OPTIC INTERCONNECT CENTER, 48 PORT, AND TERMINATE FIBER IN CABINET (24)

IL RTE 64 (NORTH AVE)

EXIST. INTERCONNECT TO THATCHER RD
 EXIST. TRACER CABLE

CABLE PLAN
NOT TO SCALE

NOTES:

1. ONLY RED SIGNAL FACES SHALL HAVE LENS COVER INSTALLED.

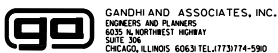
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	10	11	110
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			584
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1189

ENERGY COSTS TO:
 VILLAGE OF ELMWOOD PARK
 2501 N MANNHEIM ROAD
 FRANKLIN PARK, IL 60131
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 07071-46058
 METER NUMBER:

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL RTE 64 (NORTH AVE) AT 76TH AVE (LATHROP AVE)



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - AV, EA	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 3/22/2024	REVISED -

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	249
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT				

TS 3025
IDOT CONTRACS
FORMER ECON 100

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SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SQ FT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	71
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	46
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	536
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	708
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1520
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	552
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	743
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	206
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	439
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1946
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	185
CENTRACS LICENSE EXPANSION	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE, LENS COVER	EACH	18
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20

* 100% COST TO THE VILLAGE OF ELMWOOD PARK

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4001 WARREN ROAD, SUITE 600
WARREN, ILL. 60555
PHONE: (815) 467-4000
WWW.KIMLEY-HORN.COM

USER NAME = joel.turk	DESIGNED - AMK	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN - JJT	REVISED -
PLOT DATE = 3/22/2024	CHECKED - SS	REVISED -
	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

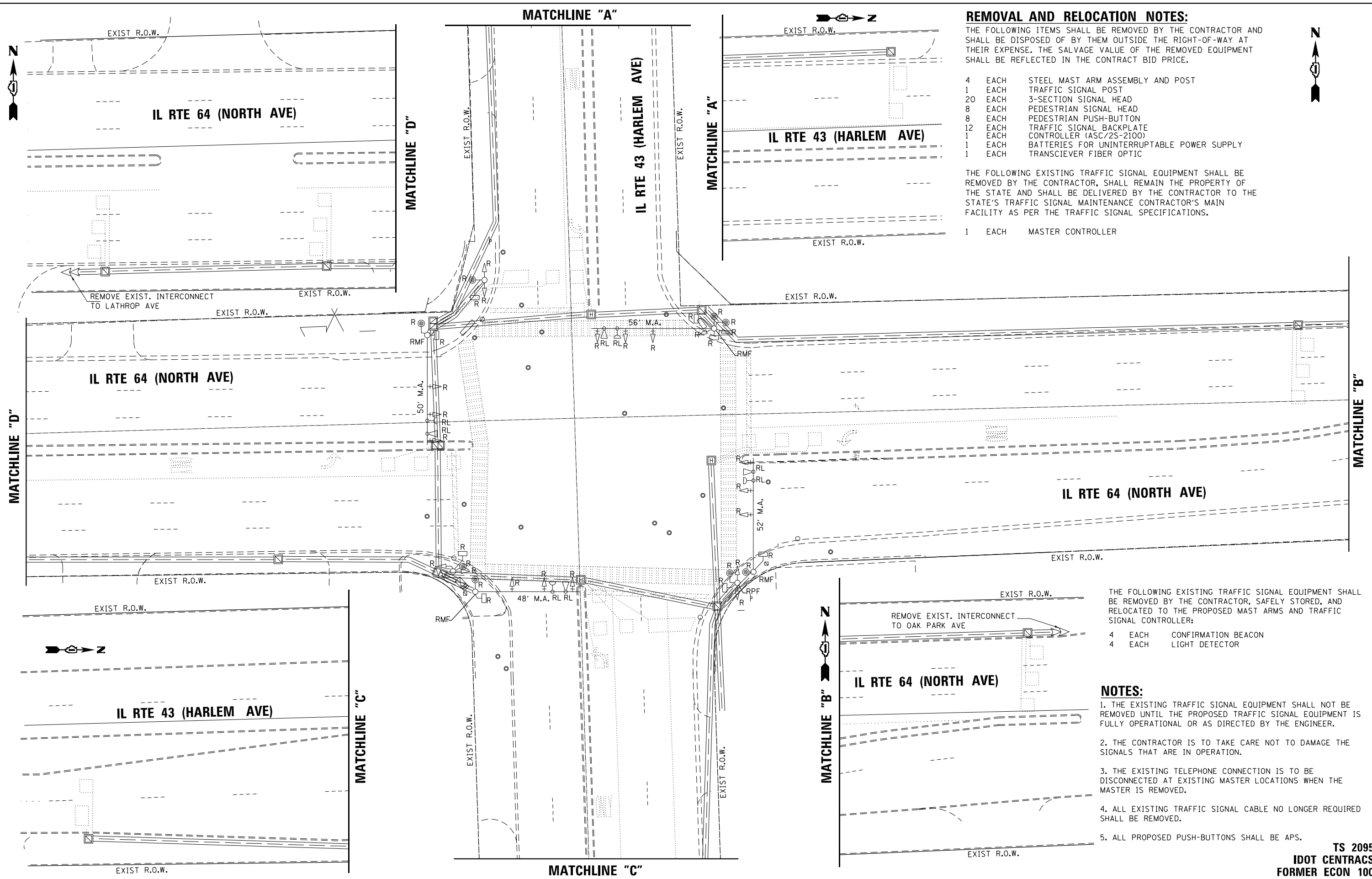
MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND LATHROP AVE /76TH AVE

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	250
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

TS 3025
IDOT CENTRACS
FORMER ECON 100

FILE NAME = p:\1\h-pa-bent\gucsmkh-pa-01\Documents\01 Active Projects\W-CHS-16995100 - IL 64\Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor- Signal\1008121-int-TS-94-CALDON



REMOVAL AND RELOCATION NOTES:

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

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH TRAFFIC SIGNAL POST
- 20 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 12 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH CONTROLLER (ASC/2S-2100)
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY
- 1 EACH TRANSCEIVER FIBER OPTIC

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

- 1 EACH MASTER CONTROLLER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

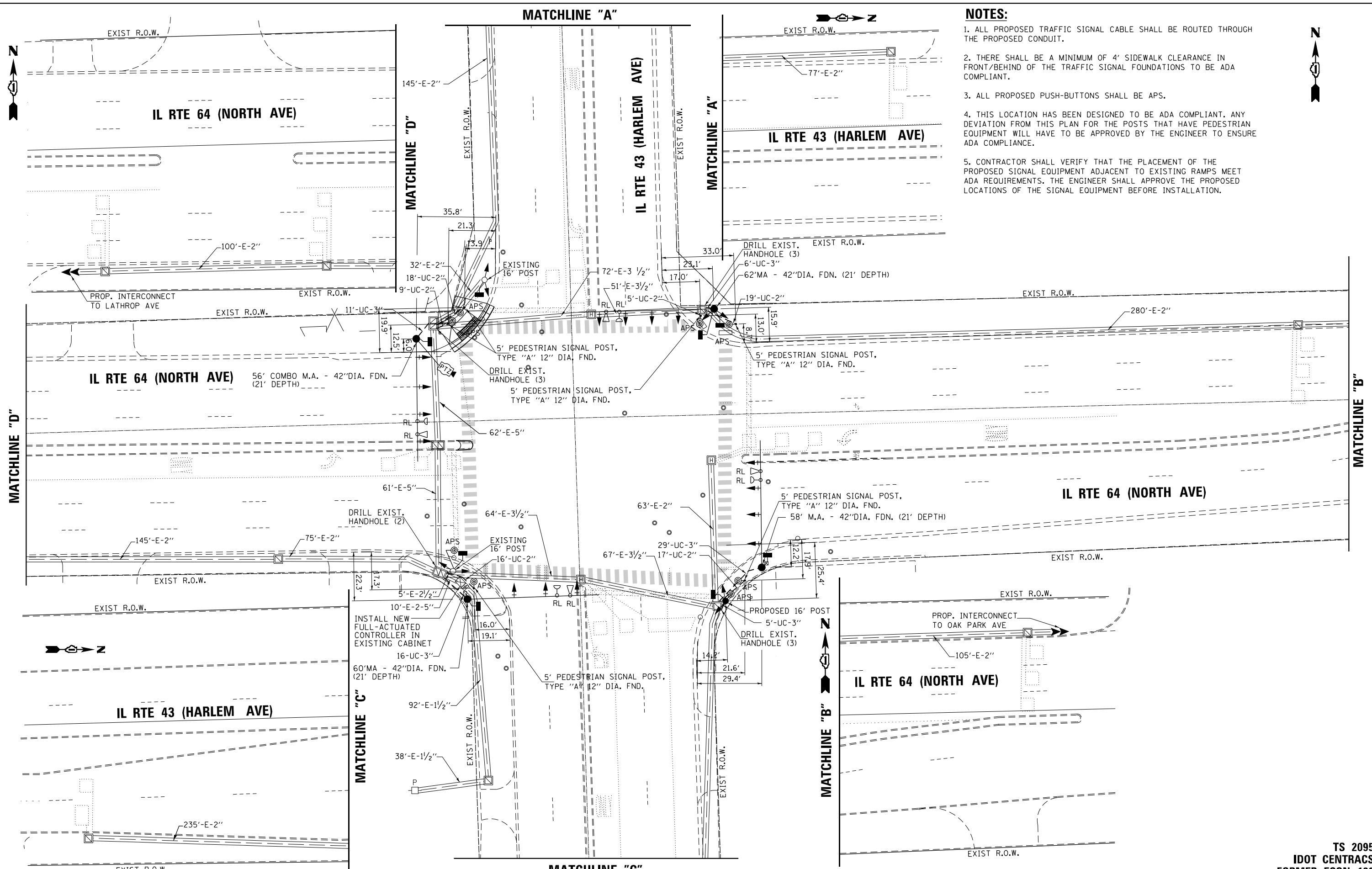
- 4 EACH CONFIRMATION BEACON
- 4 EACH LIGHT DETECTOR

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE EXISTING TELEPHONE CONNECTION IS TO BE DISCONNECTED AT EXISTING MASTER LOCATIONS WHEN THE MASTER IS REMOVED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.

**TS 2095
IDOT CENTRACS
FORMER EGON 100**

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: 773-774-590</p>	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL RTE 64 (NORTH AVE) AT IL RTE 43 (HARLEM AVE)</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - AV, EA	REVISED -	307			2020-263-SUR, SW&TS	COOK	492	251	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -	REVISED -	SCALE: 1"=20'		SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 62N40
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -	REVISED -			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



- NOTES:**
1. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
 2. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
 3. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
 4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
 5. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

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

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - AV, EA	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT IL RTE 43 (HARLEM AVE)

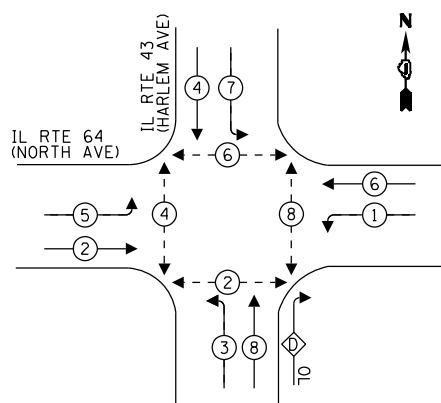
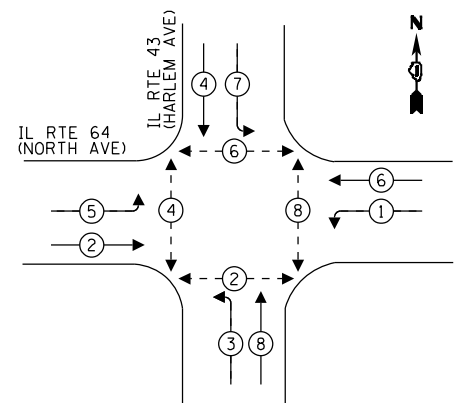
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	252
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

TS 2095
IDOT CENTRACS
FORMER EGON 100

EXISTING CONTROLLER SEQUENCE

PROPOSED CONTROLLER SEQUENCE



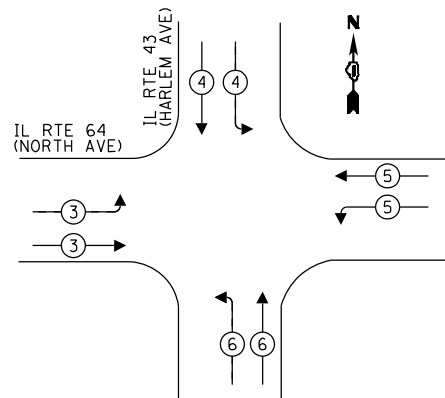
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

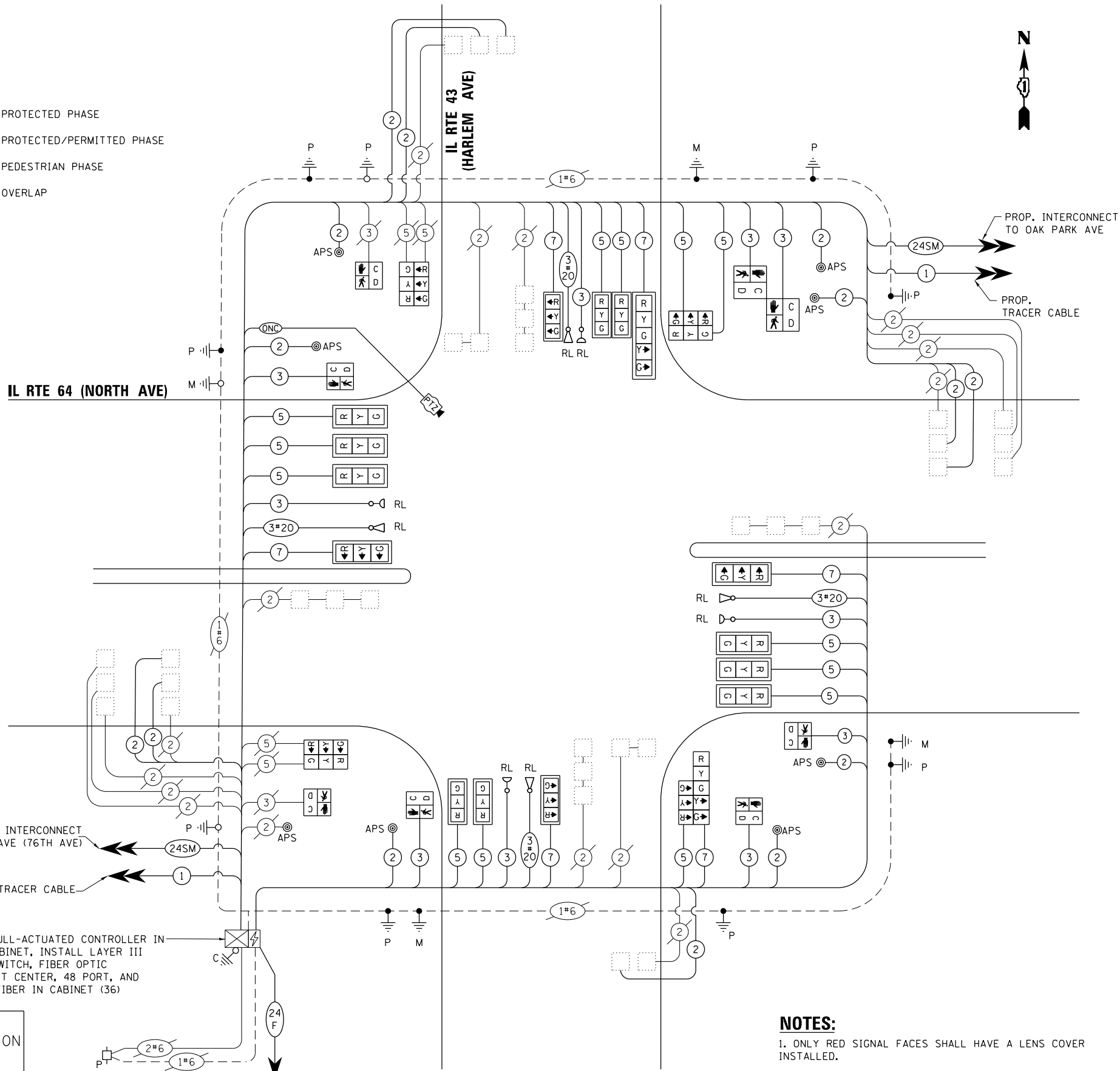
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



IL RTE 64 (NORTH AVE)

IL RTE 43 (HARLEM AVE)



CABLE PLAN
NOT TO SCALE

NOTES:

1. ONLY RED SIGNAL FACES SHALL HAVE A LENS COVER INSTALLED.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	21	11	231
4-SECTION	-	14	-
5-SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	1	15	15
TOTAL UPS SIZING			602
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1207

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAMBURG, IL 60196
 ENERGY SUPPLY: CONTACT: JOE STATCHO
 PHONE: (630) 424-5104
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 06540-54065
 METER NUMBER:

FILE NAME = ...



USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 CHECKED - MS
 DATE - 3/22/2024

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL RTE 64 (NORTH AVE) AT IL RTE 43 (HARLEM AVE)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	253
CONTRACT NO. 62N40				

TS 2095 IDOT CONTRACS FORMER ECON 100

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

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

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	2

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	195
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	67
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1469
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2318
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3002
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1580
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2932
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	388
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	84
DRILL EXISTING HANDHOLE	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	15
INDUCTIVE LOOP DETECTOR	EACH	23
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	12510
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1004
CENTRACS LICENSE EXPANSION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	257
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	6
LAYER III (NETWORK) SWITCH	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
POWER OVER ETHERNET EXTENDER	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE, LENS COVER	EACH	23
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
ELECTRIC METER	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1

* 100% COST TO THE VILLAGE OF ELMWOOD PARK

MODEL: Default
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 © 2023 KIMLEY-HORN AND ASSOCIATES, INC.
 4001 WILHELM ROAD, SUITE 600
 WARREN, ILL. 60555
 PHONE: (815) 427-4500
 WWW.KIMLEY-HORN.COM



USER NAME = JoelTurk	DESIGNED - AMK	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - SS	REVISED -
PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND IL RTE 43 (HARLEM AVE)**

SCALE: SHEET 1 OF SHEETS STA. TO STA.

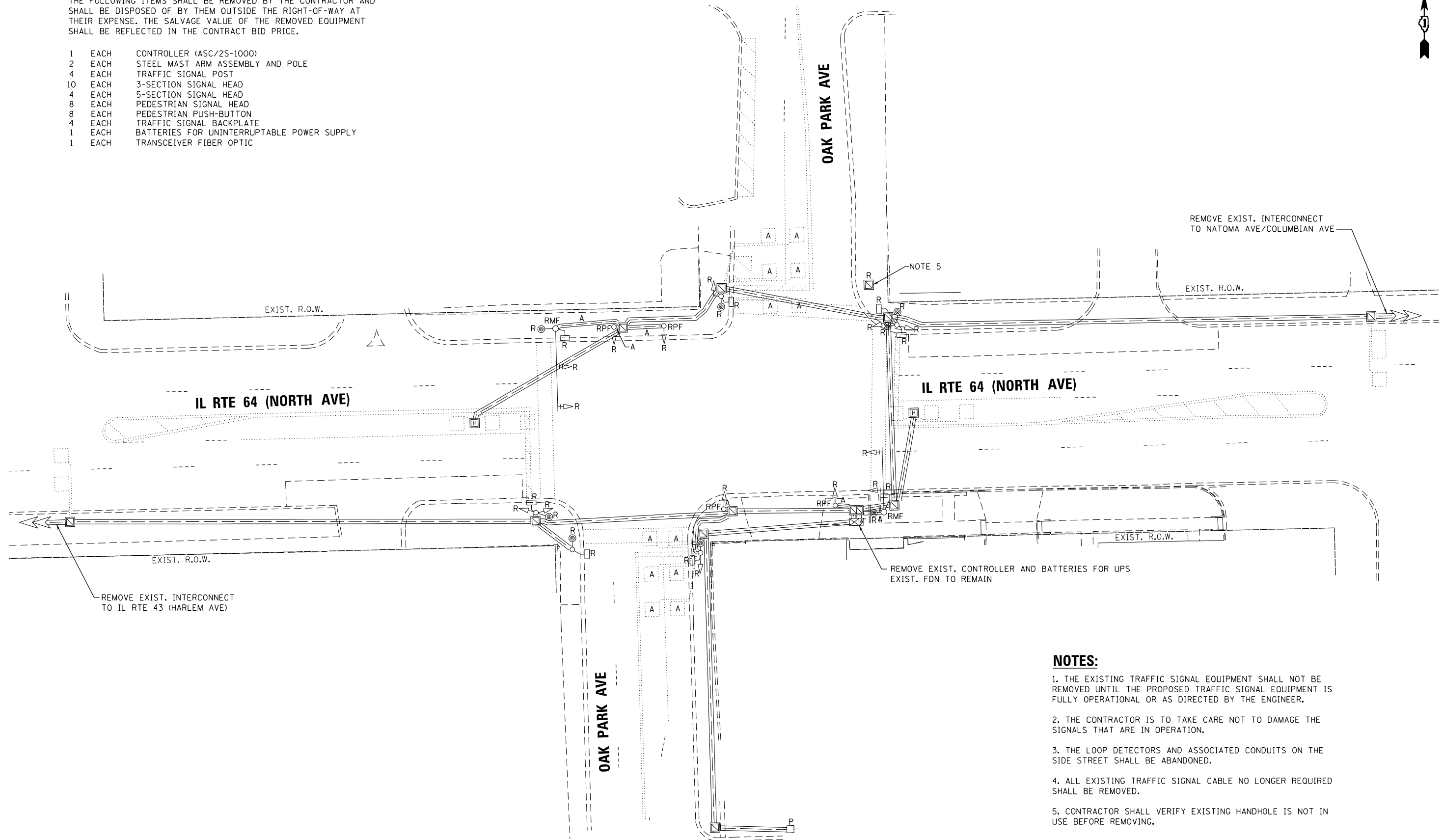
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	254
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

**TS 2095
IDOT CENTRACS
FORMER ECON 100**

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER (ASC/2S-1000)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 10 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY
- 1 EACH TRANSCEIVER FIBER OPTIC



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
5. CONTRACTOR SHALL VERIFY EXISTING HANDHOLE IS NOT IN USE BEFORE REMOVING.

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	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
		DRAWN - AV, EA	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT OAK PARK AVE**

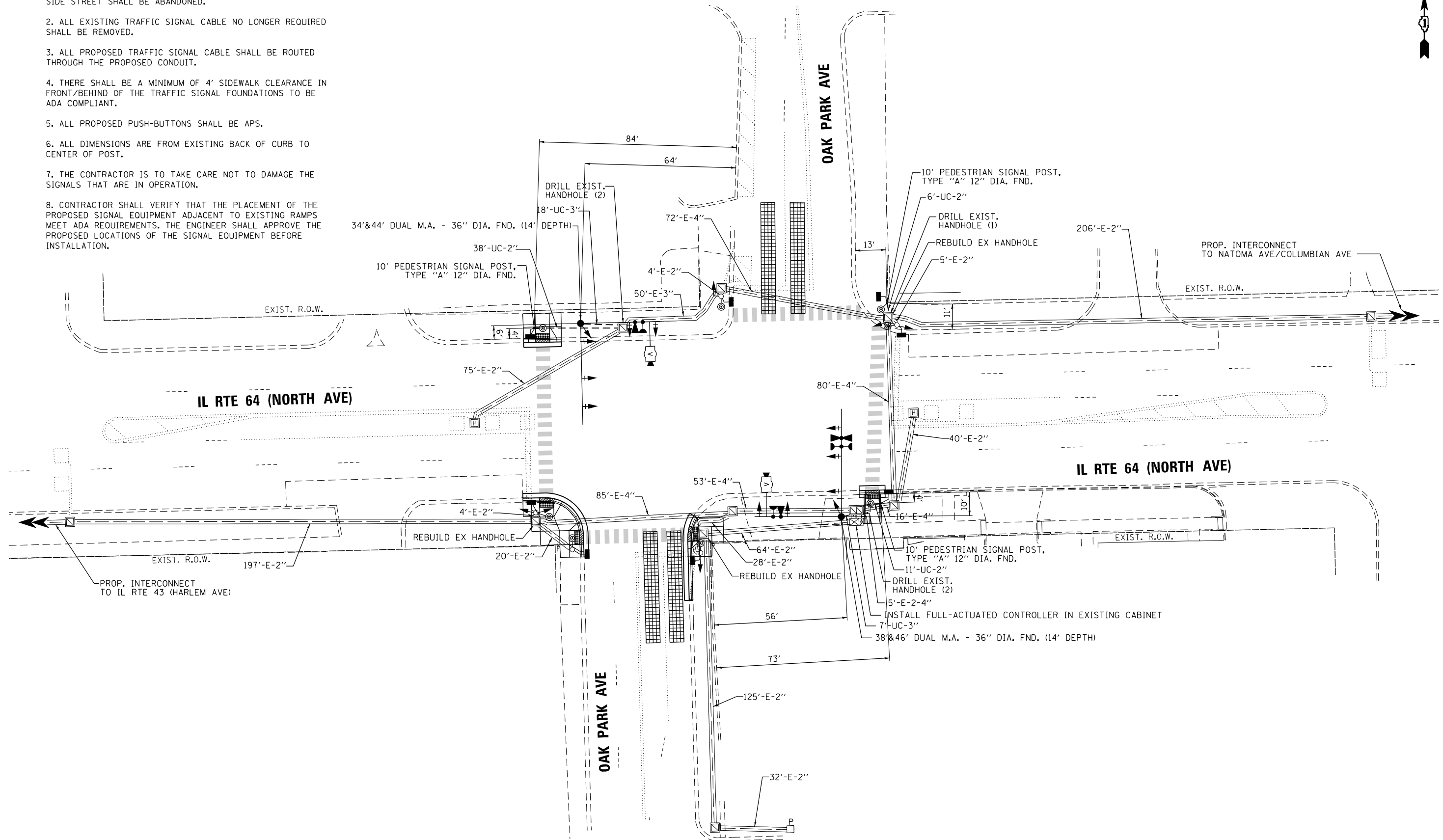
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	255
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT				

**TS 3070
IDOT CENTRACS
FORMER ECON 100**

NOTES:

1. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
6. ALL DIMENSIONS ARE FROM EXISTING BACK OF CURB TO CENTER OF POST.
7. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
8. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

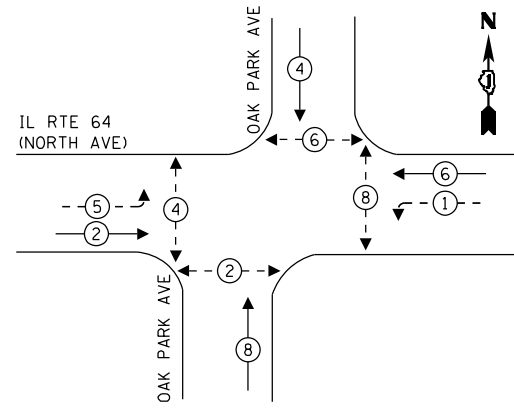


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 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

TS 3070
IDOT CENTRACS
FORMER ECON 100

	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 64 (NORTH AVE) AT OAK PARK AVE	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 256
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -			SCALE: 1"=20'	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 62N40		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -	REVISED -							

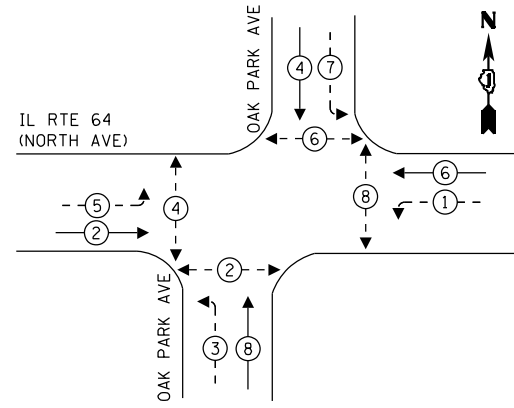
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← (P) → PROTECTED PHASE
- ← (P) - - (P) → PROTECTED/PERMITTED PHASE
- ← (P) → PEDESTRIAN PHASE
- ← (P) OL → OVERLAP

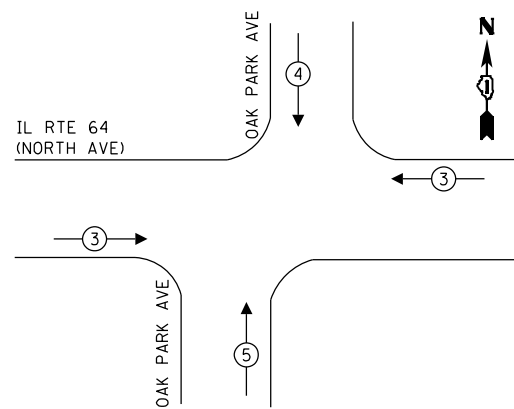
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← (P) → PROTECTED PHASE
- ← (P) - - (P) → PROTECTED/PERMITTED PHASE
- ← (P) → PEDESTRIAN PHASE
- ← (P) OL → OVERLAP

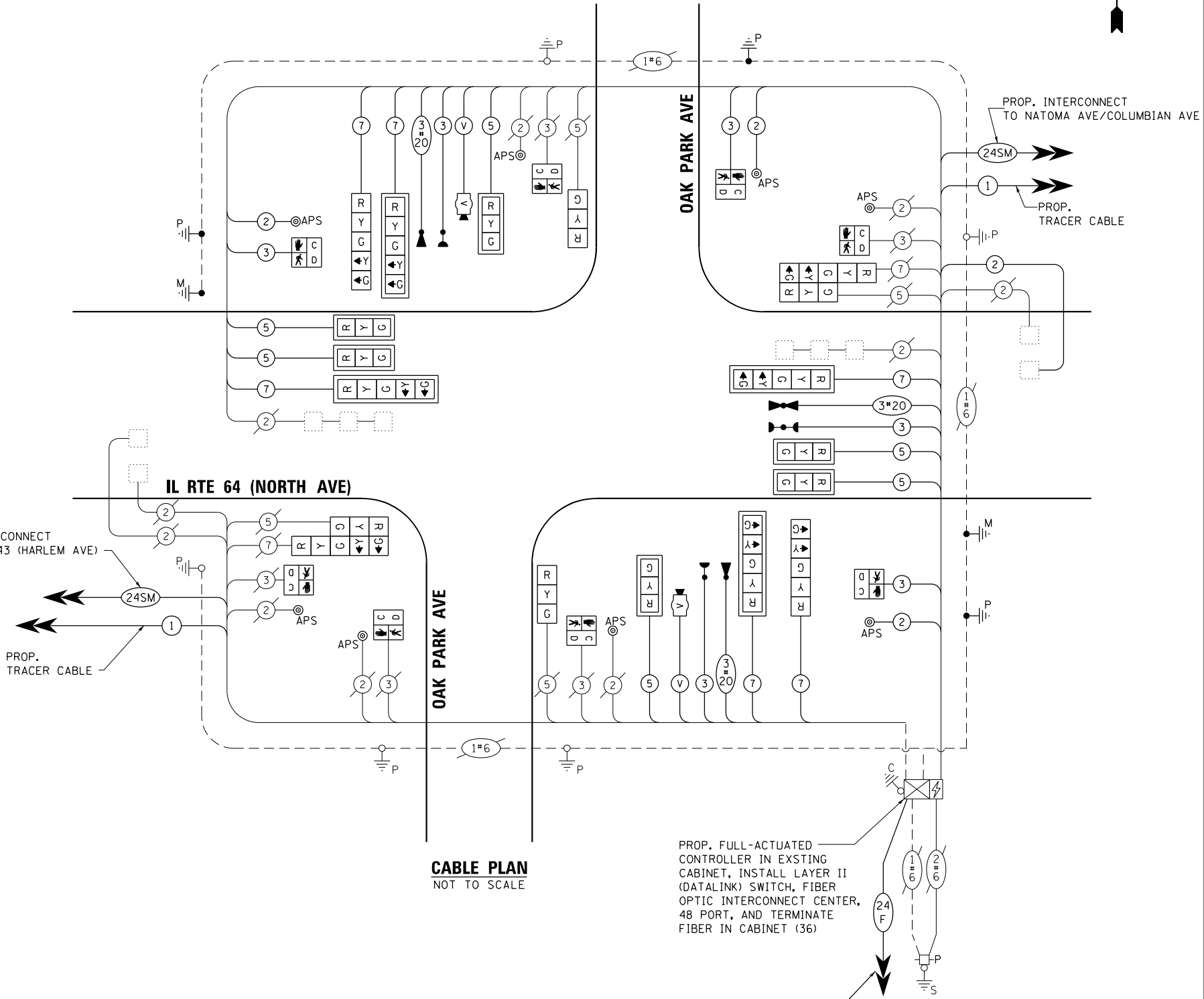
EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	10	11	110
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			584
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1189

ENERGY COSTS TO:
 CITY OF CHICAGO
 121 N LASALLE STREET
 CGICAGO, IL 60602
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 30271-50173
 METER NUMBER:



CABLE PLAN
NOT TO SCALE

NOTES:
 1. ONLY RED SIGNAL FACES SHALL HAVE A LENS COVER INSTALLED.

FILE NAME = ...



USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 CHECKED - MS
 DATE - 3/22/2024

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE) AT OAK PARK AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	257
CONTRACT NO. 62N40				

TS 2095
IDOT CENTRACS
FORMER ECON 100

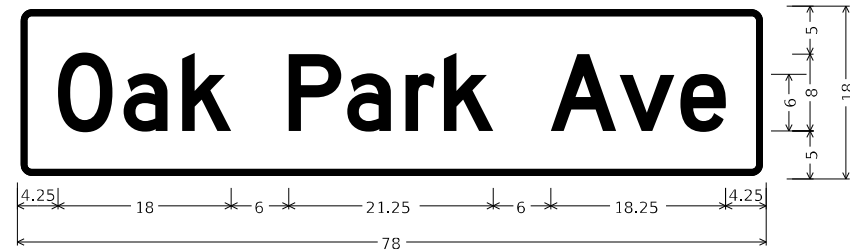
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SQ FT	44.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	55
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	25
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	489
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1014
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1199
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1163
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	338
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	157
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2496
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	3
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	504
CENTRACS LICENSE EXPANSION	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE, LENS COVER	EACH	18
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
ELECTRIC METER	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 44 FT.	EACH	1

* 100% COST TO THE CITY OF CHICAGO

MODEL: Default
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© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
 4001 WILHELM ROAD, SUITE 600
 WARREN, ILL. 60555
 PHONE: (847) 466-4600
 WWW.KIMLEY-HORN.COM

USER NAME = j0eLTurk	DESIGNED - AMK	REVISED -
PLOT SCALE = 2,0000 ' / in.	DRAWN - JJT	REVISED -
PLOT DATE = 3/22/2024	CHECKED - SS	REVISED -
	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
 AND SCHEDULE OF QUANTITIES
 IL RTE 64 (NORTH AVE) AND OAK PARK AVE

SCALE: SHEET 1 OF SHEETS STA. TO STA.

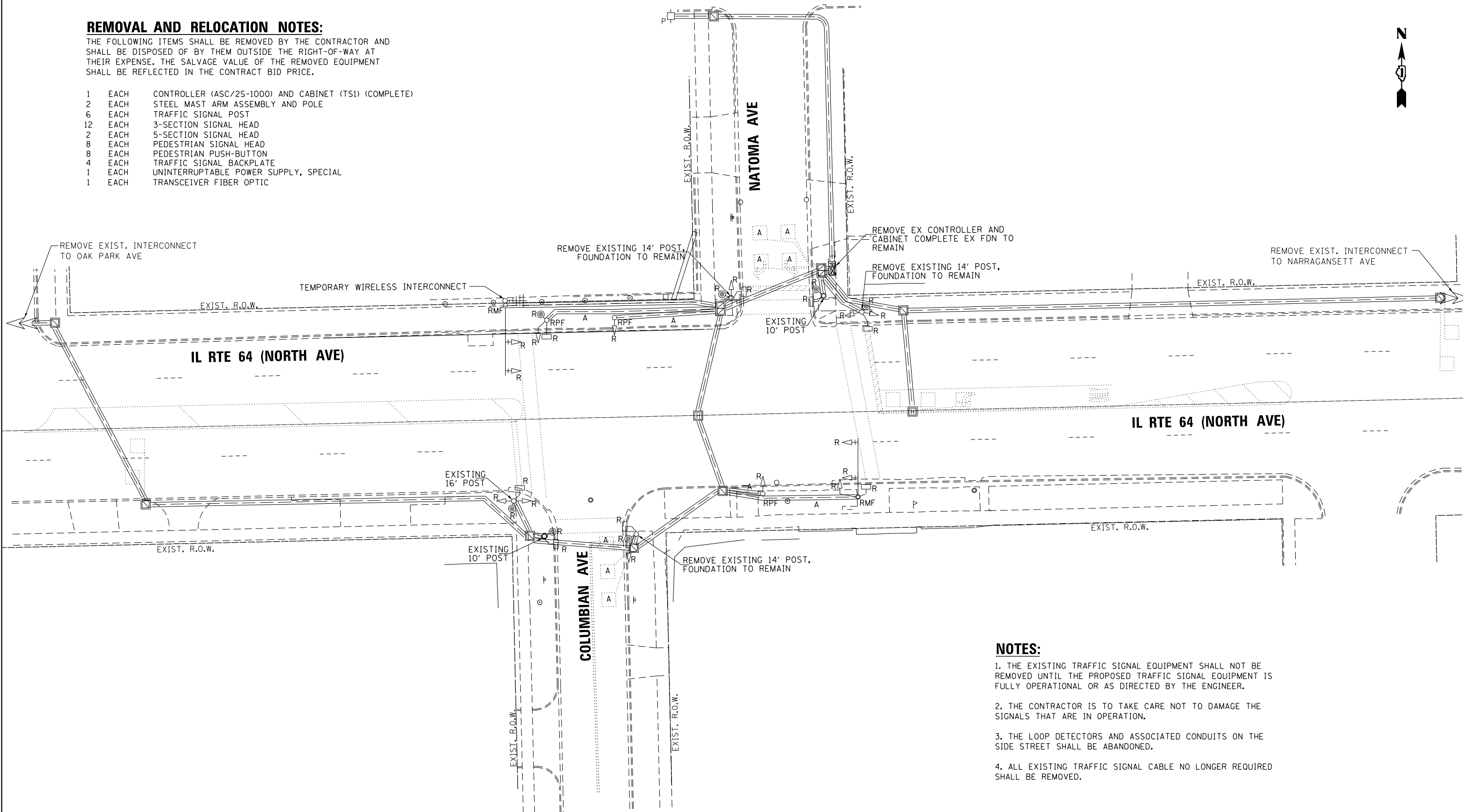
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	258
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

TS 3070
 IDOT CENTRACS
 FORMER ECON 100

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER (ASC/2S-1000) AND CABINET (TS1) (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 6 EACH TRAFFIC SIGNAL POST
- 12 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC



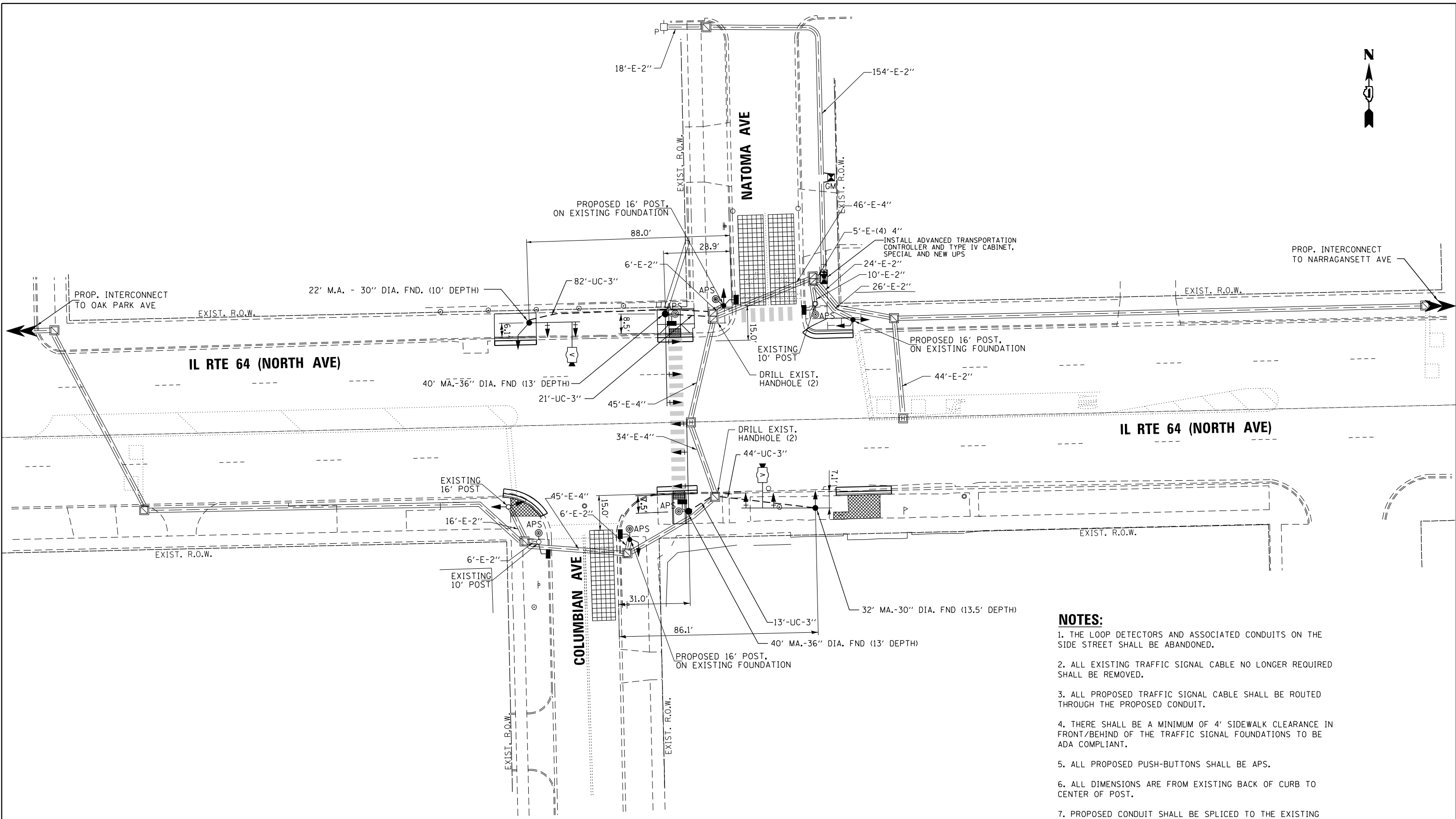
NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

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	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL RTE 64 (NORTH AVE) AT NATOMA AVE /COLUMBIAN AVE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - AV, EA	REVISED -	307			2020-263-SUR, SW&TS	COOK	492	259	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -	CONTRACT NO. 62N40							
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							
						SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.

**TS 3060
IDOT CONTRACS
FORMER ECON 100**



- NOTES:**
- 1. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
 - 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
 - 3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
 - 4. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
 - 5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
 - 6. ALL DIMENSIONS ARE FROM EXISTING BACK OF CURB TO CENTER OF POST.
 - 7. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE INSTALLATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.
 - 8. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

**TS 3060
IDOT CONTRACS
FORMER ECON 100**



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT NATOMA AVE /COLUMBIAN AVE**

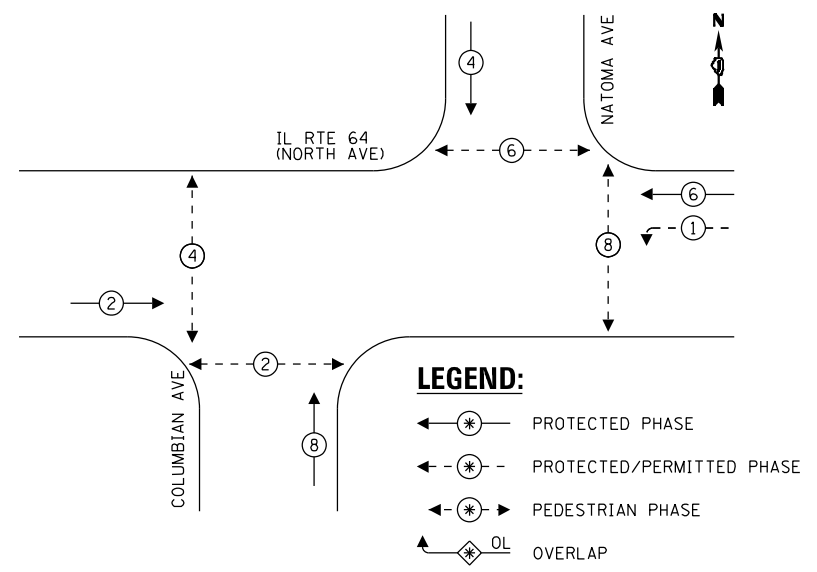
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	260
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

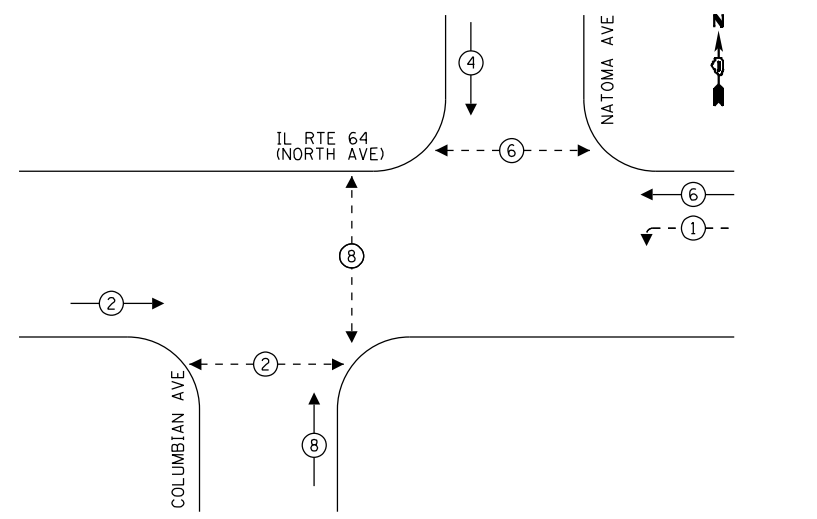
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EXISTING CONTROLLER SEQUENCE



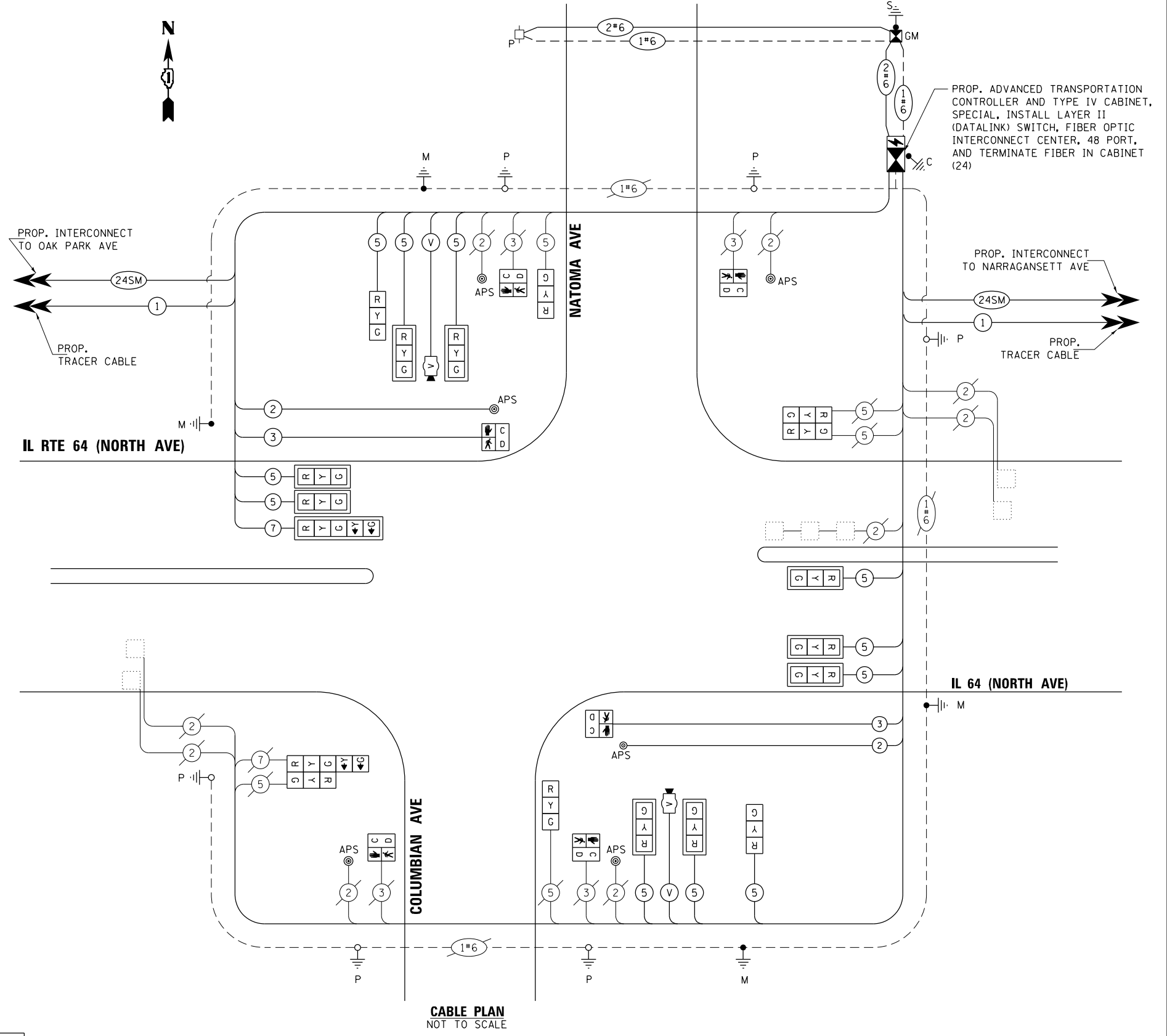
PROPOSED CONTROLLER SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			542
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1147

ENERGY COSTS TO:
 CITY OF CHICAGO
 121 N LASALLE STREET
 CGICAGO, IL 60602
 ENERGY SUPPLY: CONTACT: COMED
 PHONE: (855)-433-2700
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 302701-50173
 METER NUMBER:



NOTES:
 1. ONLY RED SIGNAL FACES SHALL HAVE A LENS COVER INSTALLED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, AND PHASE DESIGNATION DIAGRAM
IL RTE 64 (NORTH AVE) AT NATOMA AVE /COLUMBIAN AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	261
CONTRACT NO. 62N40				

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

TS 3060
IDOT CENTRACS
FORMER ECON 100



USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 CHECKED - MS
 DATE - 3/22/2024

REVISED -
 REVISED -
 REVISED -
 REVISED -

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	20	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	20	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SQ FT	65
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	160
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	306
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	320
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2358
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	163
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	228
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	442
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	5
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3337
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
CENTRACS LICENSE EXPANSION	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
LED SIGNAL FACE, LENS COVER	EACH	18

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USER NAME = joelTurk	DESIGNED - AMK	REVISED -
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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES**
IL RTE 64 (NORTH AVE) AND NATOMA AVE /COLUMBIAN AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	262
CONTRACT NO. 62N40				

TS 3060
IDOT CENTRACS
FORMER ECON 100

ILLINOIS FED. AID PROJECT

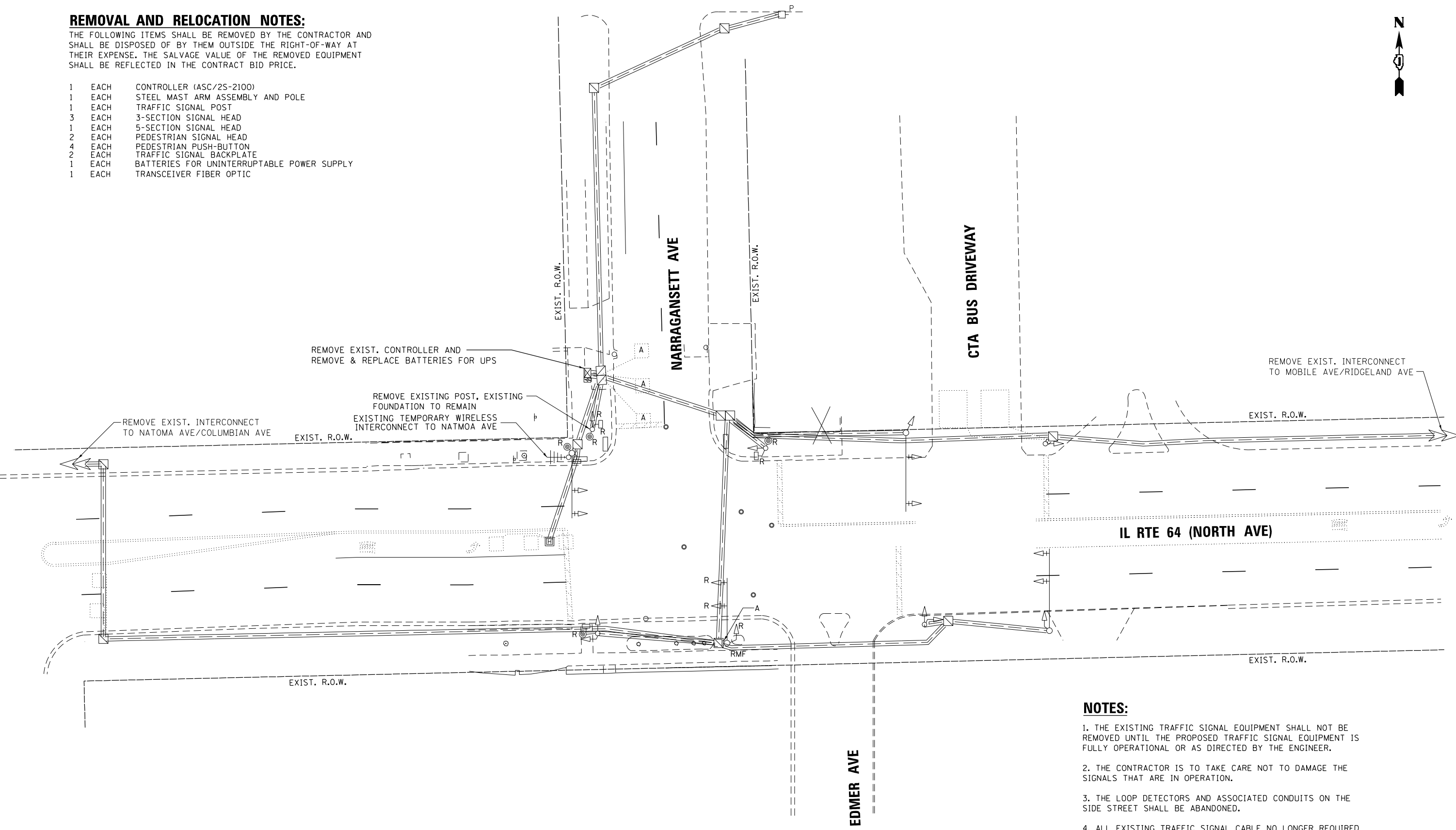


REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER (ASC/2S-2100)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 1 EACH TRAFFIC SIGNAL POST
- 3 EACH 3-SECTION SIGNAL HEAD
- 1 EACH 5-SECTION SIGNAL HEAD
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY
- 1 EACH TRANSCEIVER FIBER OPTIC

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NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

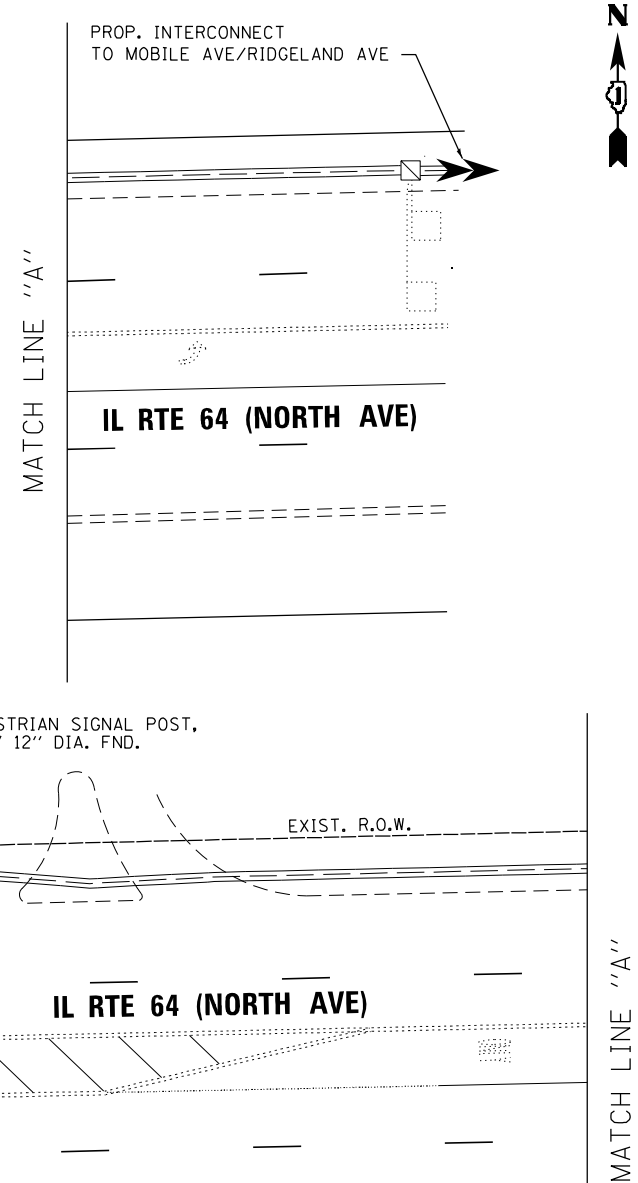
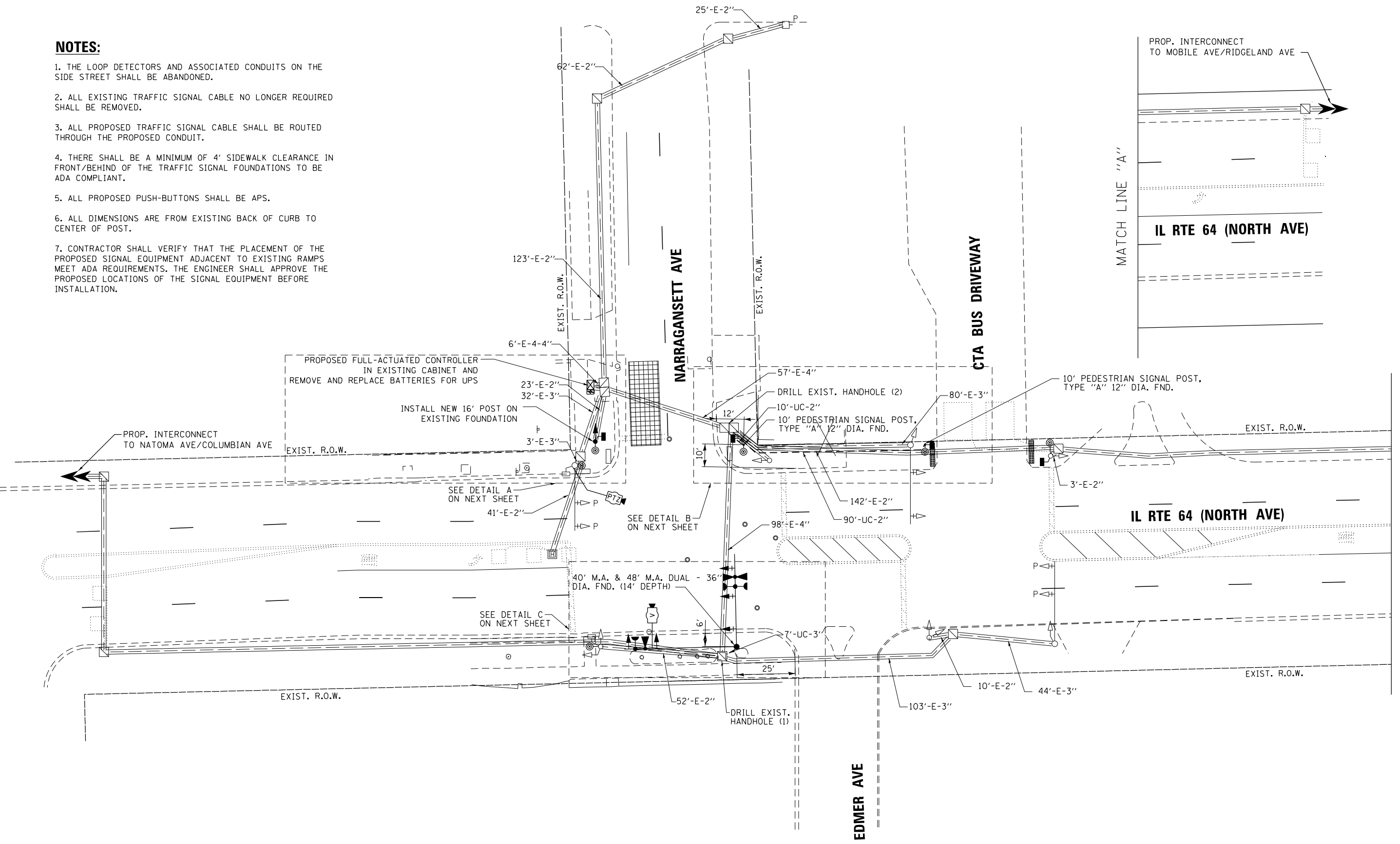
**TS 3055
IDOT CENTRACS
FORMER ECON 100**

	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60630 TEL: 773-774-590	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL RTE 64 (NORTH AVE) AT NARRAGANSETT AVE / EDMER AVE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -					307	2020-263-SUR, SW&TS	COOK	492	263
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -	SCALE: 1"=20'			SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			
									CONTRACT NO. 62N40				

NOTES:

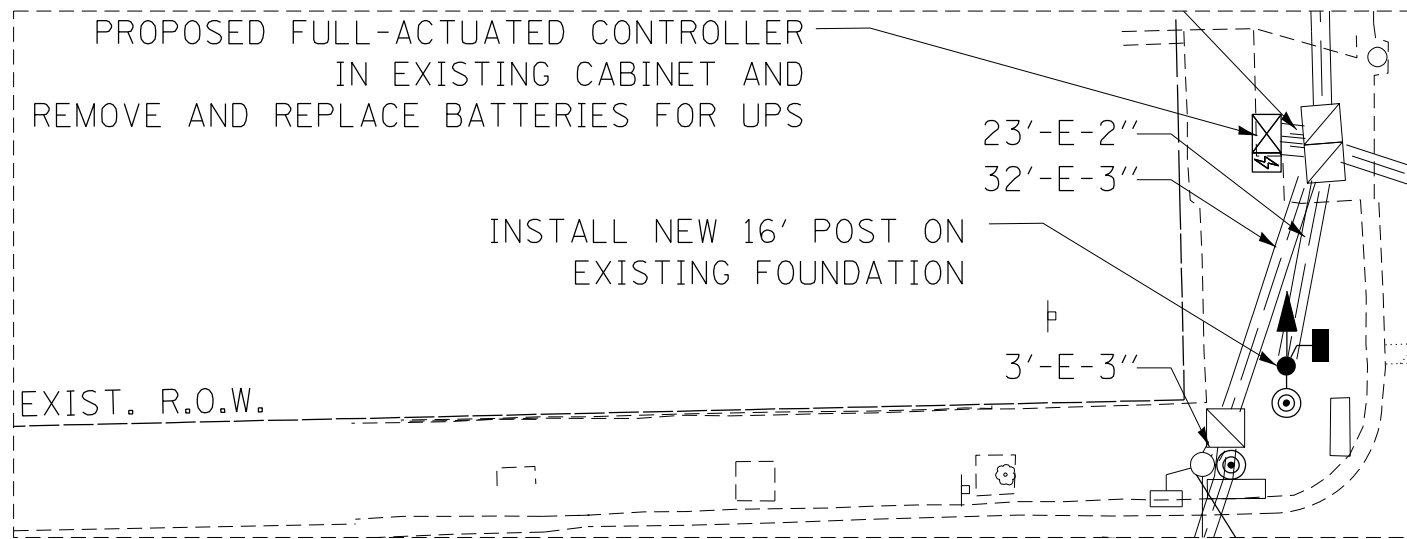
1. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
6. ALL DIMENSIONS ARE FROM EXISTING BACK OF CURB TO CENTER OF POST.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

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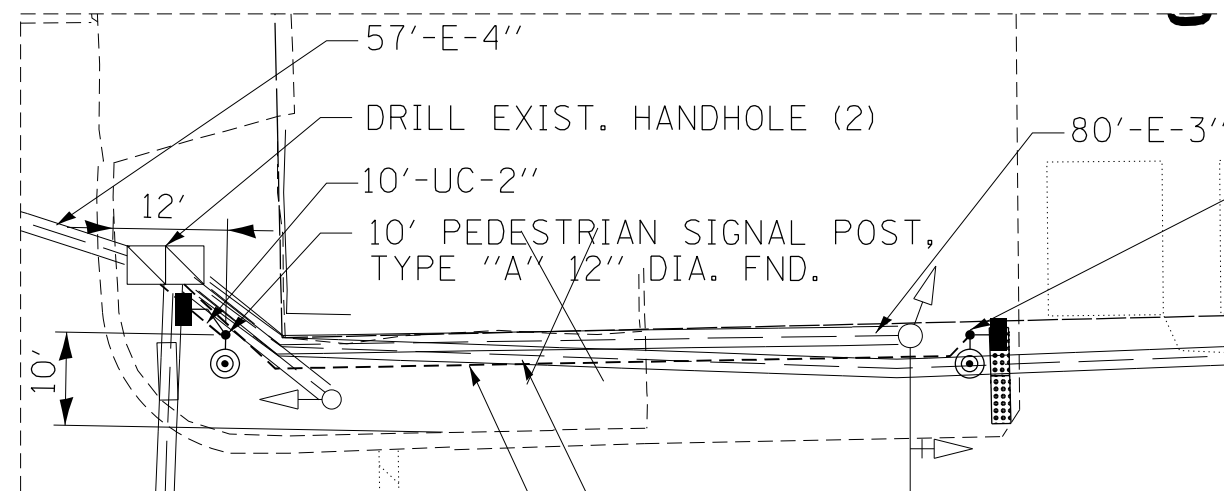


TS 3055
IDOT CENTRACS
FORMER ECON 100

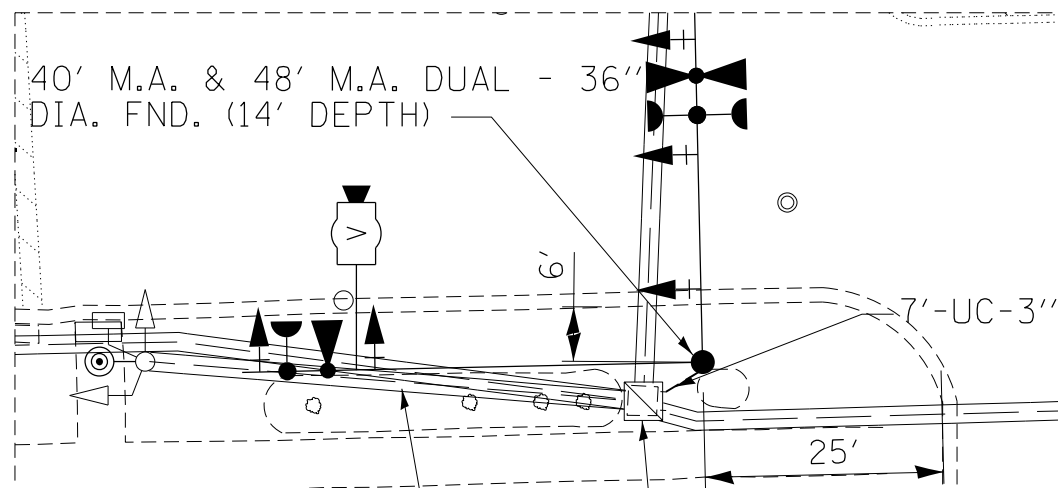
 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: 773-774-590	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 64 (NORTH AVE) AT NARRAGANSETT AVE / EDMER AVE			F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 264
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PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT									



DETAIL A



DETAIL B



DETAIL C

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**TS 3055
IDOT CENTRACS
FORMER ECON 100**

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 300 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 64 (NORTH AVE) AT NARRAGANSETT AVE /EDMER AVE-DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: 1"=10'	SHEET NO.	OF SHEETS	STA.	TO STA.	307	2020-263-SUR, SW&TS	COOK	492
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -							CONTRACT NO. 62N40				
									FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



PROPOSED FULL-ACTUATED CONTROLLER
IN EXISTING CABINET AND
REMOVE AND REPLACE BATTERIES FOR UPS
INSTALL LAYER II (DATALINK) SWITCH, FIBER
OPTIC INTERCONNECT CENTER, 48 PORT, AND
TERMINATE FIBER IN CABINET (24)

PROP. INTERCONNECT
TO NATOMA AVE
/COLUMBIAN AVE

PROP. TRACER CABLE

IL RTE 64
(NORTH AVE)

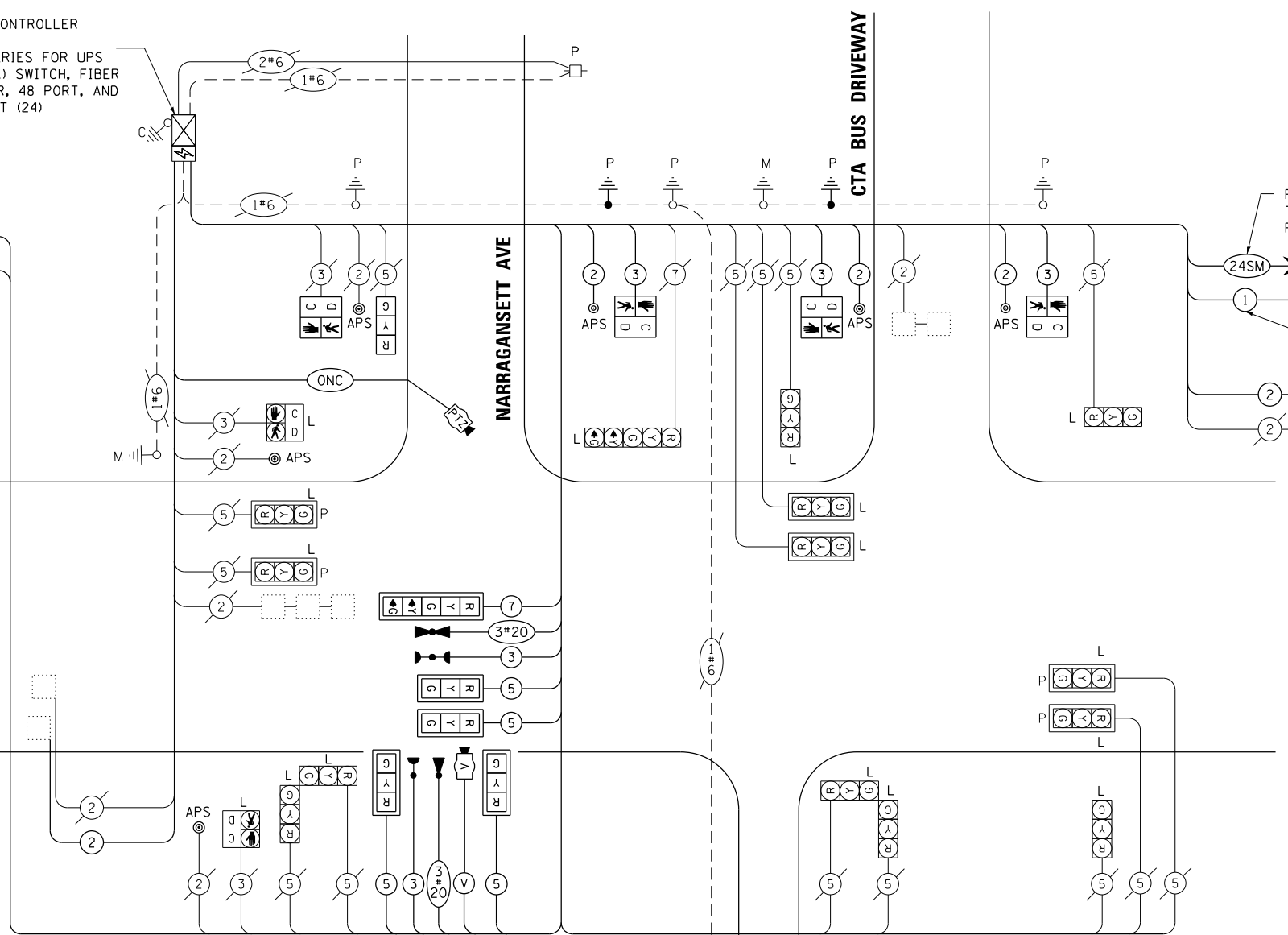
NARRAGANSETT AVE

CTA BUS DRIVEWAY

EDMER AVE

PROP. INTERCONNECT
TO MOBILE AVE /
RIDGELAND AVE

PROP. TRACER CABLE



CABLE PLAN
NOT TO SCALE

NOTES:

1. ONLY RED SIGNAL FACES SHALL HAVE A VISOR HEATER
INSTALLED.

LEGEND:

L = LED SIGNAL MODULE REPLACEMENT

**LED SIGNAL
MODULE REPLACEMENT**

LED SIGNAL RED BALL	14
LED SIGNAL YELLOW BALL	14
LED SIGNAL GREEN BALL	14
LED SIGNAL YELLOW ARROW	2
LED SIGNAL GREEN ARROW	2
LED PEDESTRIAN SIGNAL	2

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196
ENERGY SUPPLY: CONTACT: COMED
PHONE: (855)-433-2700
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 01360-83102
METER NUMBER:

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3-SECTION	4	22	88
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			588
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1193

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY
VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE) AT NARRAGANSETT AVE / EDMER AVE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	266
CONTRACT NO. 62N40				

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 308
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

DESIGNED - AV, EA	REVISED -
DRAWN - AV, EA	REVISED -
CHECKED - MS	REVISED -
DATE - 3/22/2024	REVISED -

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

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

FILE NAME = ...

SEQUENCE OF OPERATION

MOVEMENT	2+5		2+6												3						4						FLASH																												
PHASE	1		2		3		4		5A		5B		5C		5D		6A		6B		6C		6D		7			8		9A		9B		10A		10B		10C		10D		11		12A		12B		12C		12D		13A		13B	
CHANGE TO	/		2+6		/		/		3		4		/		/		2+5 2+6		4		/		/		2+5			2+6		/		/		/		/		/		/		/		/		/		/		/					
IL 64 (NORTH AVE) AT NARRAGANSETT AVE NEAR RIGHT AND TWO FAR RIGHT MAST ARM SIGNALS	E/B	G	G		G	G	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
IL 64 (NORTH AVE) AT NARRAGANSETT AVE END MAST ARM AND FAR LEFT SIGNALS	E/B	G	G		G	G	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
IL 64 (NORTH AVE) AT CTA BUS DRIVEWAY ALL SIGNALS	E/B	G	G		G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G				
IL 64 (NORTH AVE) AT CTA BUS DRIVEWAY ALL SIGNALS	W/B	R	R		G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
IL 64 (NORTH AVE) AT NARRAGANSETT AVE ALL SIGNALS	W/B	R	R		G	G	G	G	Y	R	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
NARRAGANSETT AVE ALL SIGNALS	S/B	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
CTA BUS DRIVEWAY ALL SIGNALS	S/B	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
PEDESTRIAN SIGNALS CROSSING NARRAGANSETT AVE AND CTA BUS DRIVEWAY ON NORTH SIDE OF IL 64 (NORTH AVE)	H	H		P	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
PEDESTRIAN SIGNALS CROSSING IL 64 (NORTH AVE) ON WEST SIDE OF NARRAGANSETT AVE	H	H		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				

PHASES 2+6 SHALL BE PLACED ON RECALL
 * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
 ** FLASHING HAND IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE
 P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK

WALK AND FLASHING DON'T WALK TIMINGS TO BE SET ONLY ON PHASES WHERE WALK AND FLASHING DON'T WALK ARE INDICATED IN THE SEQUENCE OF OPERATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		1		3		3						7		7		11						11		PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	CI FAR TO NORMAL SEQUENCE	
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	2	3							
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	3	2	1F	1G	1H	1J	3	1L	1M	2	3	1Q	2	1S	1T	1U	3	/	/	/	/	/				
IL 64 (NORTH AVE) AT NARRAGANSETT AVE NEAR RIGHT AND TWO FAR RIGHT MAST ARM SIGNALS	E/B	G	Y	R	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇	
IL 64 (NORTH AVE) AT NARRAGANSETT AVE END MAST ARM AND FAR LEFT SIGNALS	E/B	G	Y	R	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇	
IL 64 (NORTH AVE) AT CTA BUS DRIVEWAY ALL SIGNALS	E/B	G	G	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	G	G	◇	
IL 64 (NORTH AVE) AT CTA BUS DRIVEWAY ALL SIGNALS	W/B	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇	
IL 64 (NORTH AVE) AT NARRAGANSETT AVE ALL SIGNALS	W/B	R	R	R	G	G	G	G	Y	R	R	R	R	R	G	G	G	G	Y	R	R	R	R	R	G	R	◇	
NARRAGANSETT AVE ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	G	◇
CTA BUS DRIVEWAY ALL SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	◇
PEDESTRIAN SIGNALS CROSSING NARRAGANSETT AVE AND CTA BUS DRIVEWAY ON NORTH SIDE OF IL 64 (NORTH AVE)	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING IL 64 (NORTH AVE) ON WEST SIDE OF NARRAGANSETT AVE	H	H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	◇

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE PREEMPTION INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTERVAL 2 OR 3 IS TERMINATED.

FILE NAME = ... TS 3055

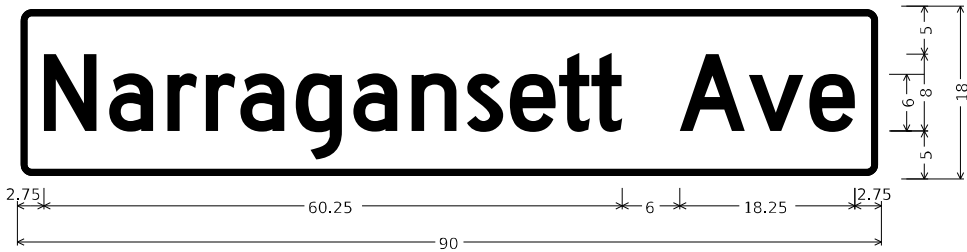
USER NAME = \$USER\$	DESIGNED - AR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION IL RTE 64 (NORTH AVE) AT NARRAGANSETT AVE				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN -	REVISIED -	REVISIED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.	307	2020-263-SUR, SW&TS	COOK	492	267
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISIED -						CONTRACT NO. 62N40					
PLOT DATE = \$DATE\$	DATE - 9/20/2023	REVISIED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	11.25	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SO FT	23.75
RELOCATE SIGN PANEL - TYPE 2	SO FT	24
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	100
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	7
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	549
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1089
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1012
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	260
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	934
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	124
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	14
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	2
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3211
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	519
CENTRACS LICENSE EXPANSION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	194
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
LED SIGNAL FACE VISOR HEATER	EACH	20
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
FULLY-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
ELECTRIC METER	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
LED SIGNAL MODULE REPLACEMENT	EACH	46
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	2

* 100% COST TO THE CITY OF CHICAGO

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**TS 3055
IDOT CENTRACS
FORMER ECON 100**



USER NAME = j0eLTurk
PLOT SCALE = 2,0000 ' / in.
PLOT DATE = 3/22/2024

DESIGNED - AMK	REVISED -
DRAWN - JJT	REVISED -
CHECKED - SS	REVISED -
DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND NARRAGANSETT AVE**

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR,SW&TS	COOK	492	268
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

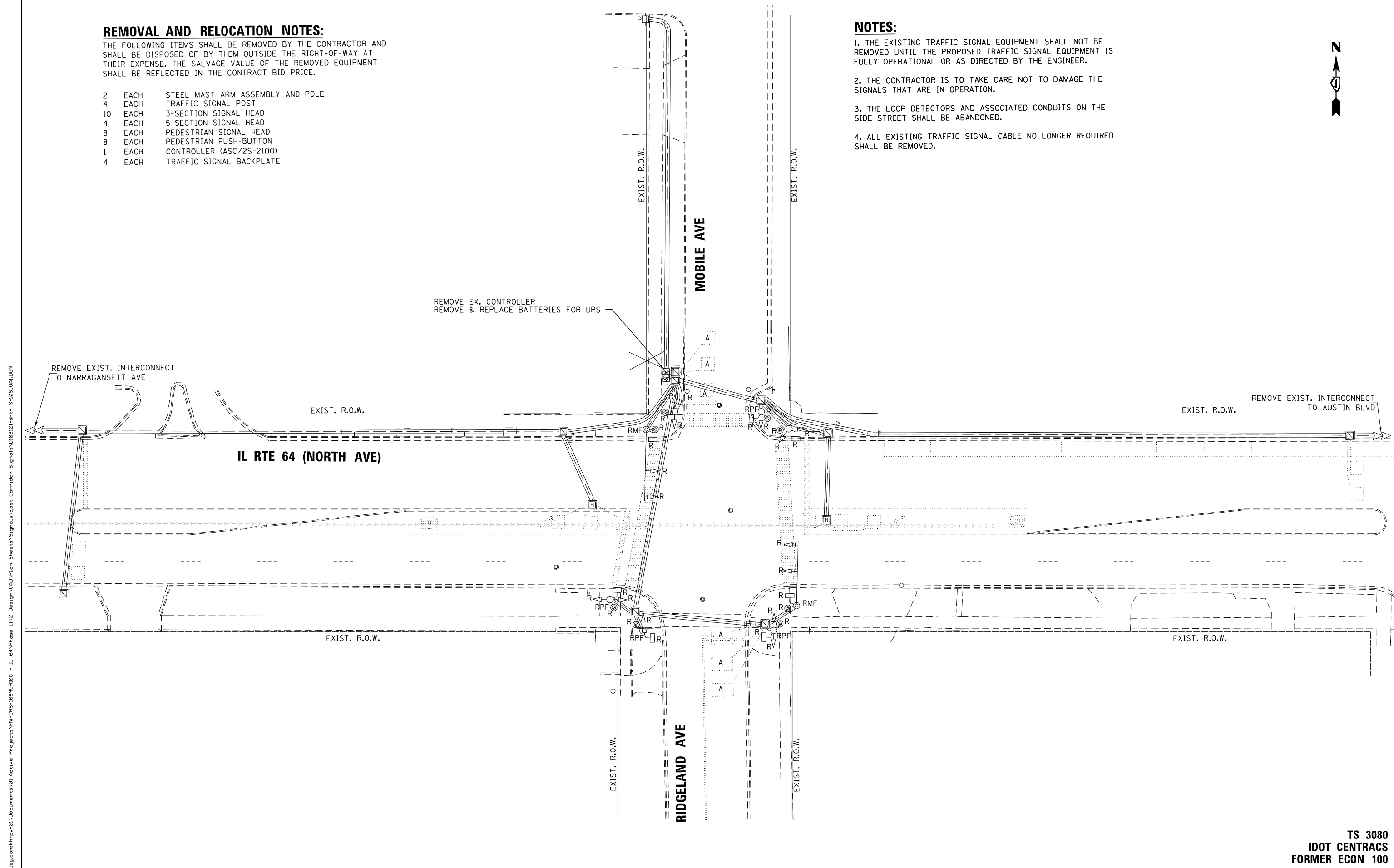
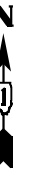
REMOVAL AND RELOCATION NOTES:

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

- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 10 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH CONTROLLER (ASC/2S-2100)
- 4 EACH TRAFFIC SIGNAL BACKPLATE

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



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GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
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PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 IL RTE 64 (NORTH AVE) AT MOBILE AVE / RIDGELAND AVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	269
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

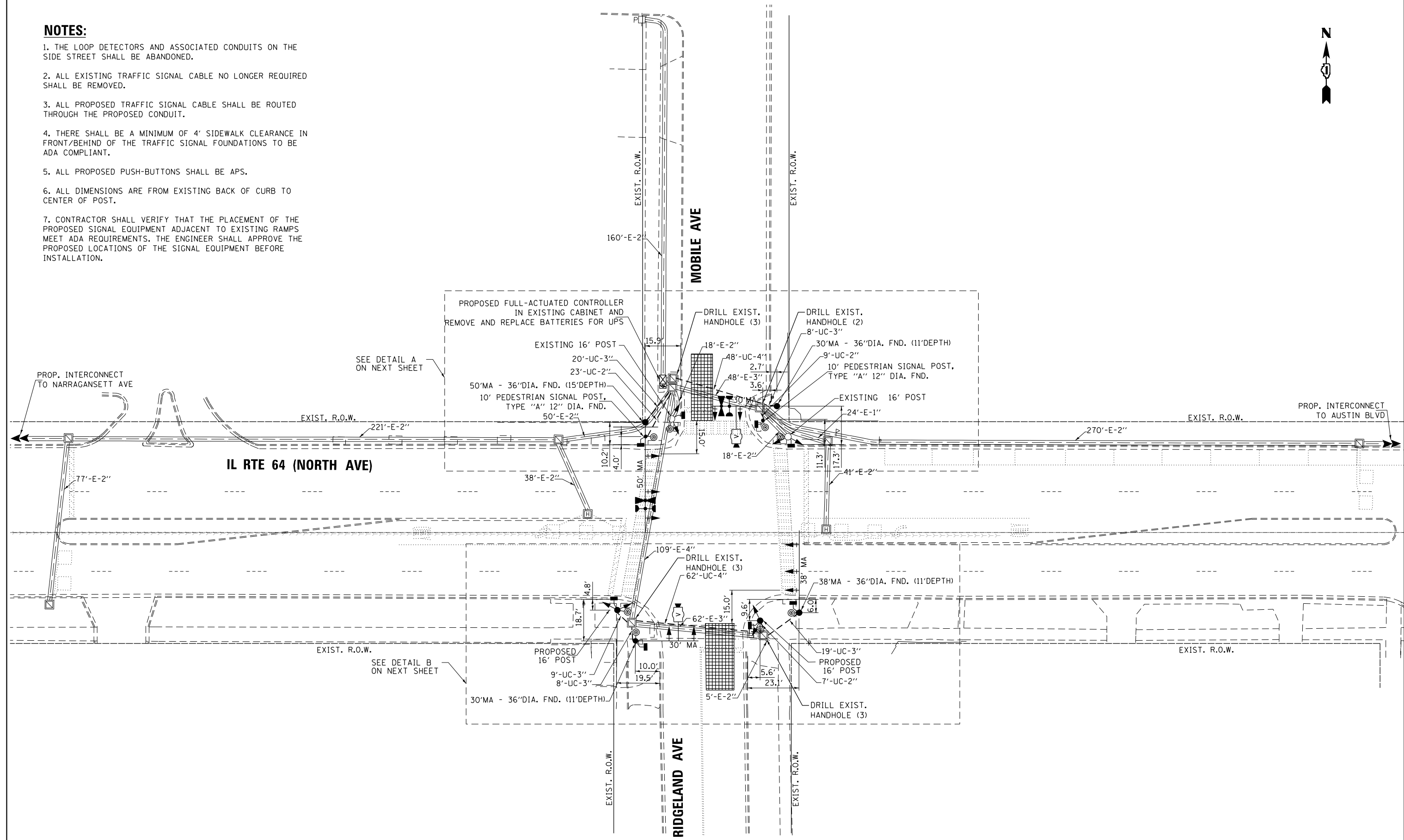
**TS 3080
 IDOT CENTRACS
 FORMER ECON 100**

NOTES:

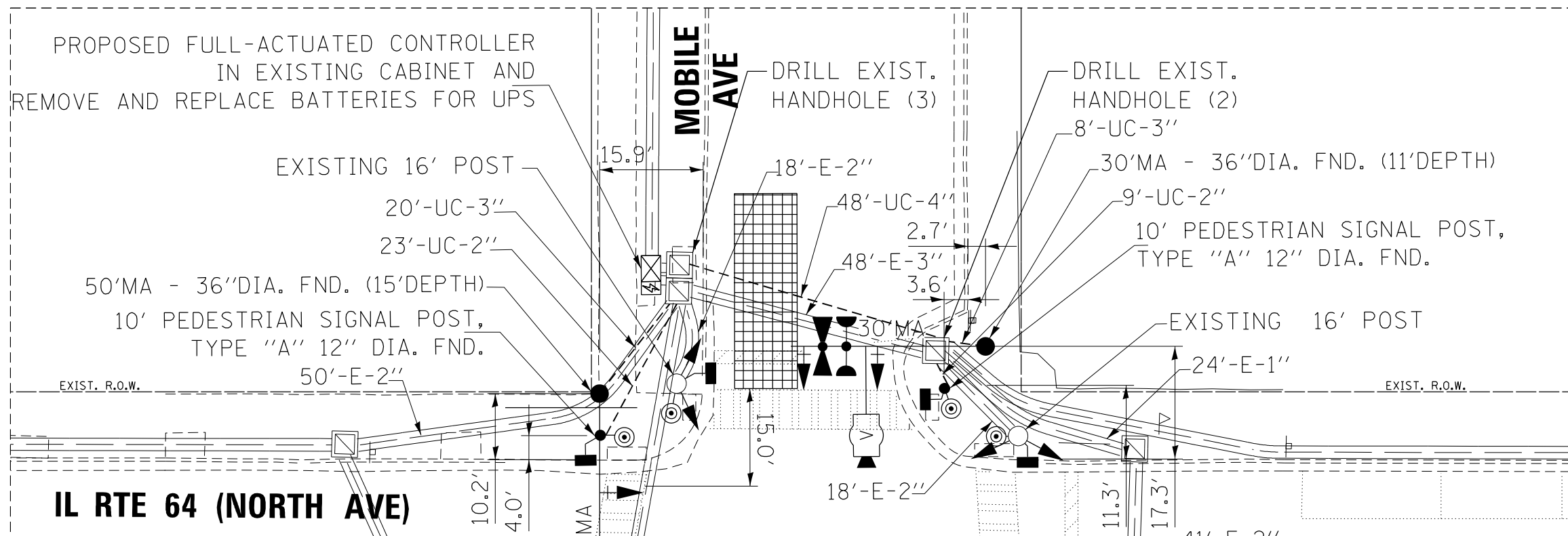
1. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
5. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
6. ALL DIMENSIONS ARE FROM EXISTING BACK OF CURB TO CENTER OF POST.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.



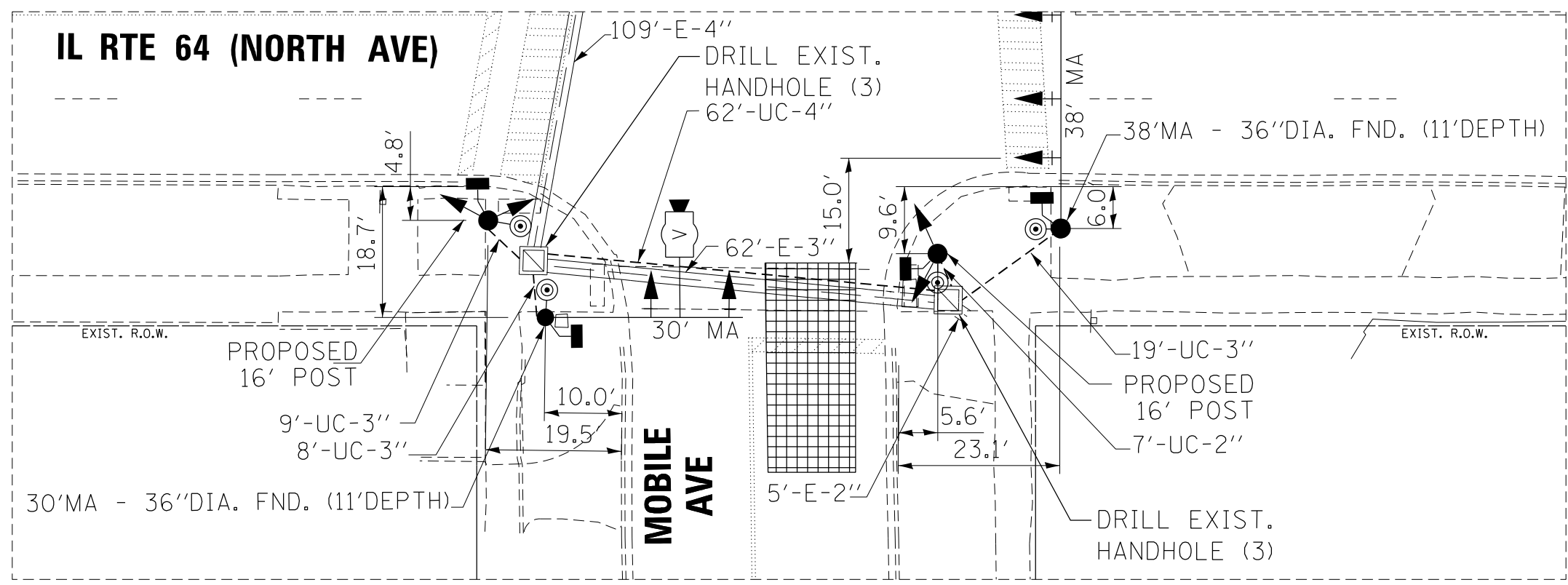
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GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 64 (NORTH AVE) AT MOBILE AVE /RIDGELAND AVE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.	307	2020-263-SUR, SW&TS	COOK	492
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -	FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		CONTRACT NO. 62N40						



DETAIL A



DETAIL B

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GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 208
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$
 DESIGNED - AV, EA
 DRAWN - AV, EA
 CHECKED - MS
 DATE - 3/22/2024

REVISED -
 REVISED -
 REVISED -
 REVISED -

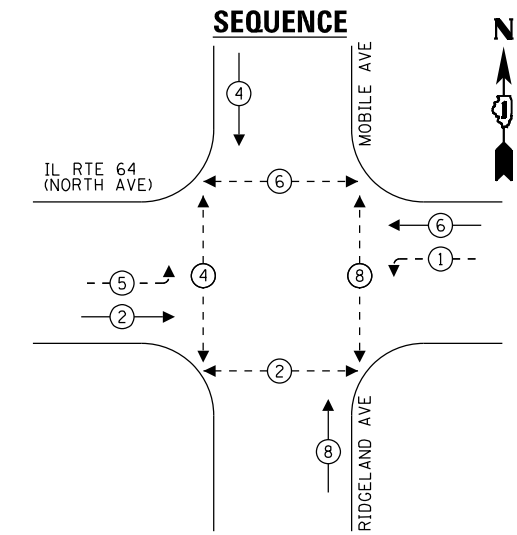
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
 IL RTE 64 (NORTH AVE) AT MOBILE AVE / RIDGELAND AVE-DETAILS
 SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	271
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

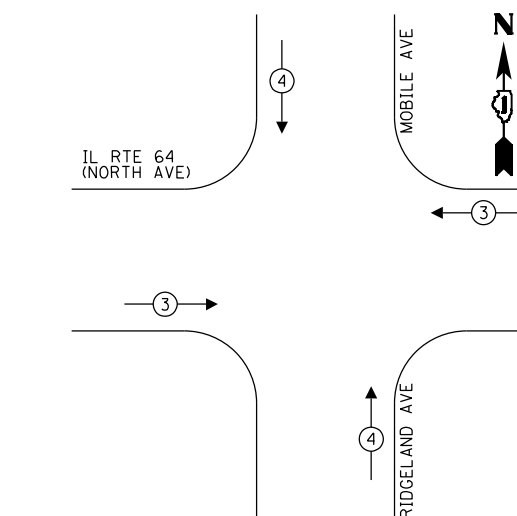
TS 3080
 IDOT CENTRACS
 FORMER ECON 100

EXISTING AND PROPOSED CONTROLLER



- LEGEND:**
- ← * → PROTECTED PHASE
 - ← * - - → PROTECTED/PERMITTED PHASE
 - ← * - - - - → PEDESTRIAN PHASE
 - ← * OL → OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**

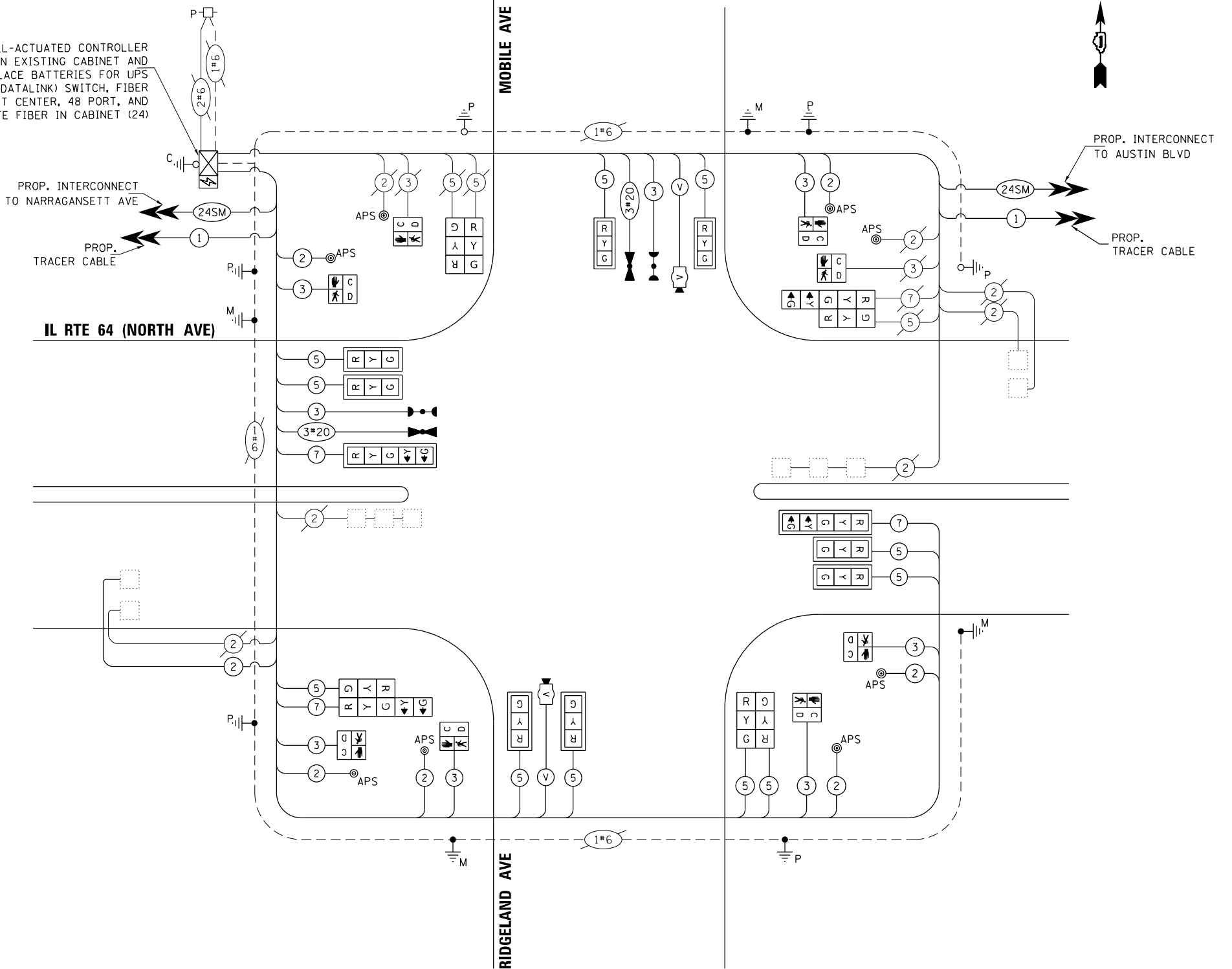


**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED.SIGNAL	8	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			546
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1151

ENERGY COSTS TO:
 CITY OF CHICAGO
 121 N LASALLE STREET
 CHICAGO, IL 60602
 ENERGY SUPPLY: CONTACT: COMED
 PHONE: (855)-433-2700
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 30271-50173
 METER NUMBER:

PROPOSED FULL-ACTUATED CONTROLLER
 IN EXISTING CABINET AND
 REMOVE AND REPLACE BATTERIES FOR UPS
 INSTALL LAYER II (DATALINK) SWITCH, FIBER
 OPTIC INTERCONNECT CENTER, 48 PORT, AND
 TERMINATE FIBER IN CABINET (24)



**CABLE PLAN
NOT TO SCALE**

NOTES:

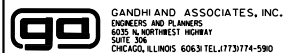
1. ONLY RED SIGNAL FACES SHALL HAVE A LENS COVER INSTALLED.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MODIFIED CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE) AT MOBILE AVE / RIDGELAND AVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	272
				CONTRACT NO. 62N40

**TS 3080
IDOT CENTRACS
FORMER ECON 100**



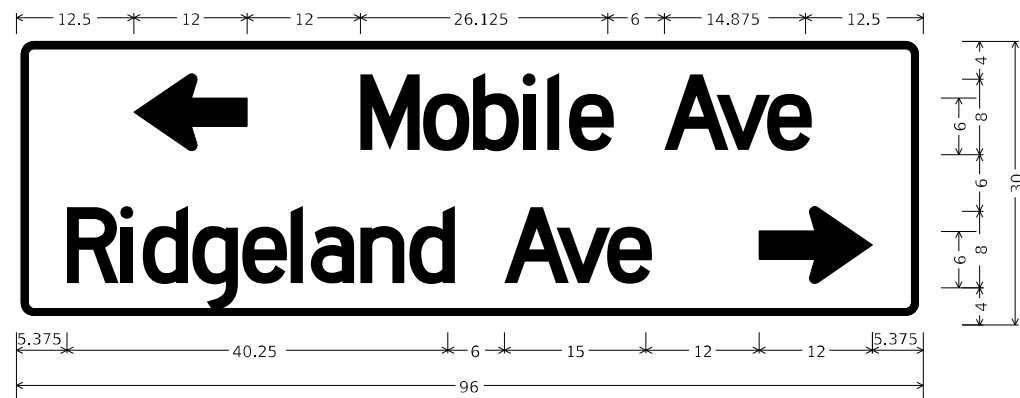
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PLOT SCALE = 40.0000' / in.	DRAWN - AV, EA	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 3/22/2024	REVISED -

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

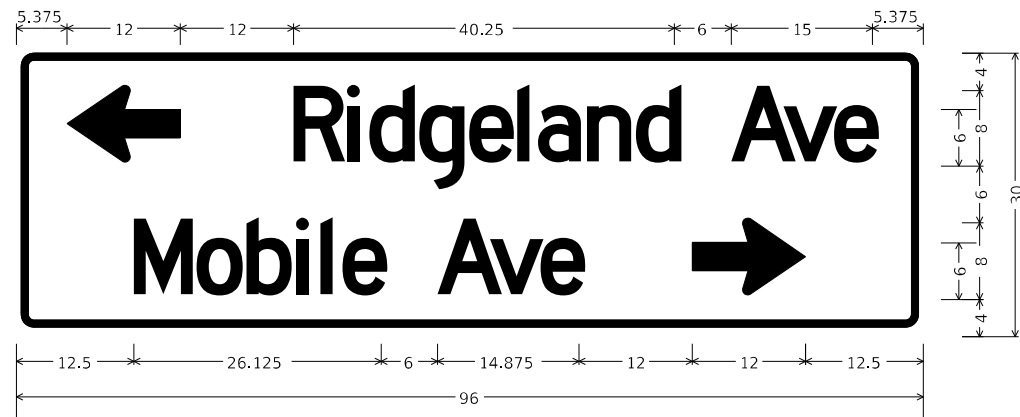


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	20	1	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	20	1	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SO FT	65
RELOCATE SIGN PANEL - TYPE 1	SO FT	36
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	45
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	69
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	110
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	902
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1172
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1958
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	548
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	391
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	191
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48
DRILL EXISTING HANDHOLE	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	1
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4463
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	229
CENTRACS LICENSE EXPANSION	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	18
ELECTRIC METER	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1

* 100% COST TO THE CITY OF CHICAGO

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PHONE: 630-471-4555
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND MOBILE AVE /RIDGELAND AVE

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	273
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

TS 3080
IDOT CENTRACS
FORMER ECON 100



REMOVAL AND RELOCATION NOTES:

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

- | | | |
|---|------|----------------------------------|
| 1 | EACH | CONTROLLER (ASC/2S-1000) |
| 4 | EACH | STEEL MAST ARM ASSEMBLY AND POLE |
| 1 | EACH | TRAFFIC SIGNAL POST |
| 9 | EACH | 3-SECTION SIGNAL HEAD |
| 8 | EACH | 5-SECTION SIGNAL HEAD |
| 8 | EACH | PEDESTRIAN SIGNAL HEAD |
| 7 | EACH | PEDESTRIAN PUSH-BUTTON |
| 7 | EACH | TRAFFIC SIGNAL BACKPLATE |
| 1 | EACH | TRANSCEIVER FIBER OPTIC |

REMOVE EXIST. INTERCONNECT TO RIDGELAND AVE EXIST. R.O.W.

REMOVE EXISTING CONTROLLER REMOVE AND REPLACE BATTERY FOR UPS

REMOVE EXISTING 15' POST, FOUNDATION TO REMAIN

EXISTING 16' POST

EXISTING 16' POST

EXISTING 16' POST

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

EXIST. R.O.W.

IL RTE 64 (NORTH AVE)

AUSTIN BLVD

IL RTE 64 (NORTH AVE)

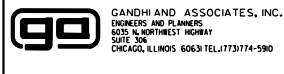
MATCH LINE "A"

MATCH LINE "A"

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
3. THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

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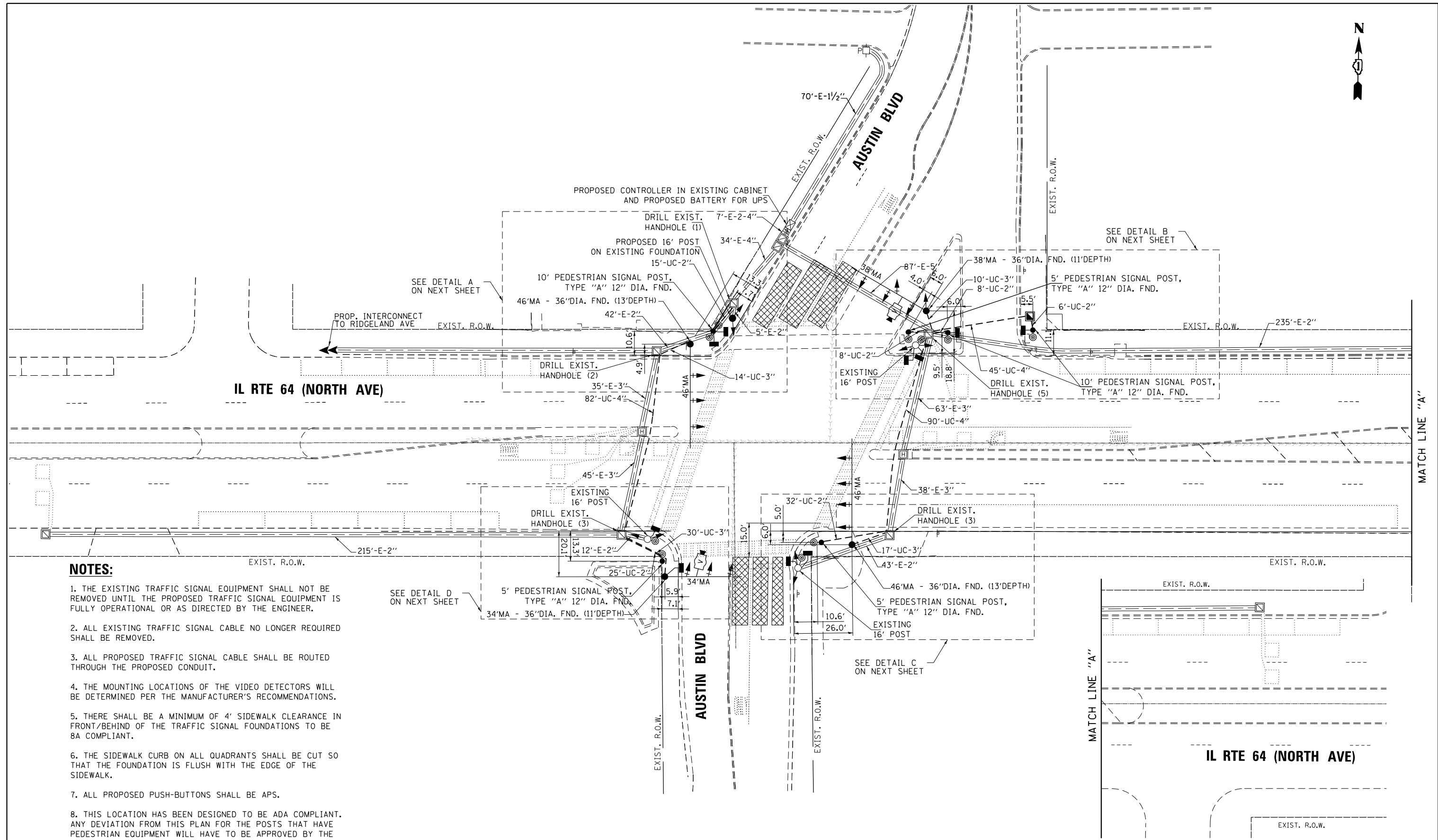
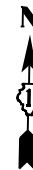
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT AUSTIN BLVD

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

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 274
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3030
IDOT CENTRACS
FORMER ECON 100



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. THE MOUNTING LOCATIONS OF THE VIDEO DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
5. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE 8A COMPLIANT.
6. THE SIDEWALK CURB ON ALL QUADRANTS SHALL BE CUT SO THAT THE FOUNDATION IS FLUSH WITH THE EDGE OF THE SIDEWALK.
7. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
8. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
9. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

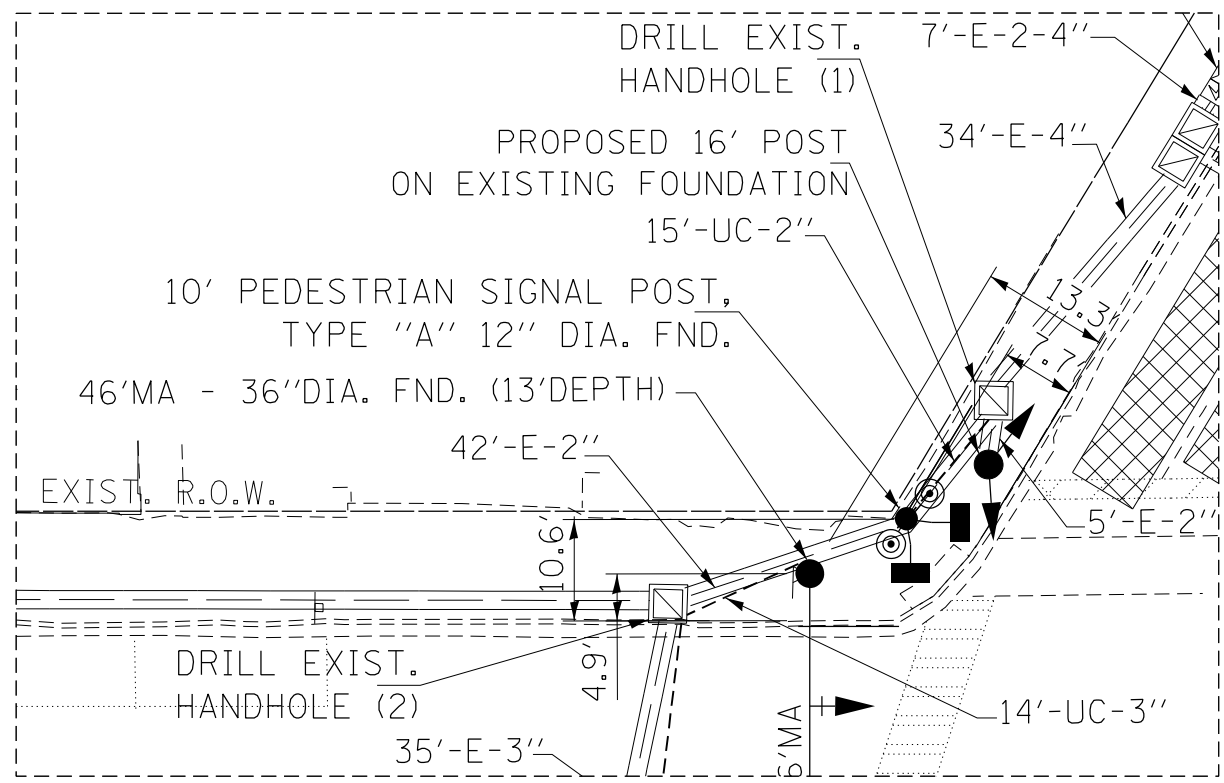
TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 64 (NORTH AVE) AT AUSTIN BLVD

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

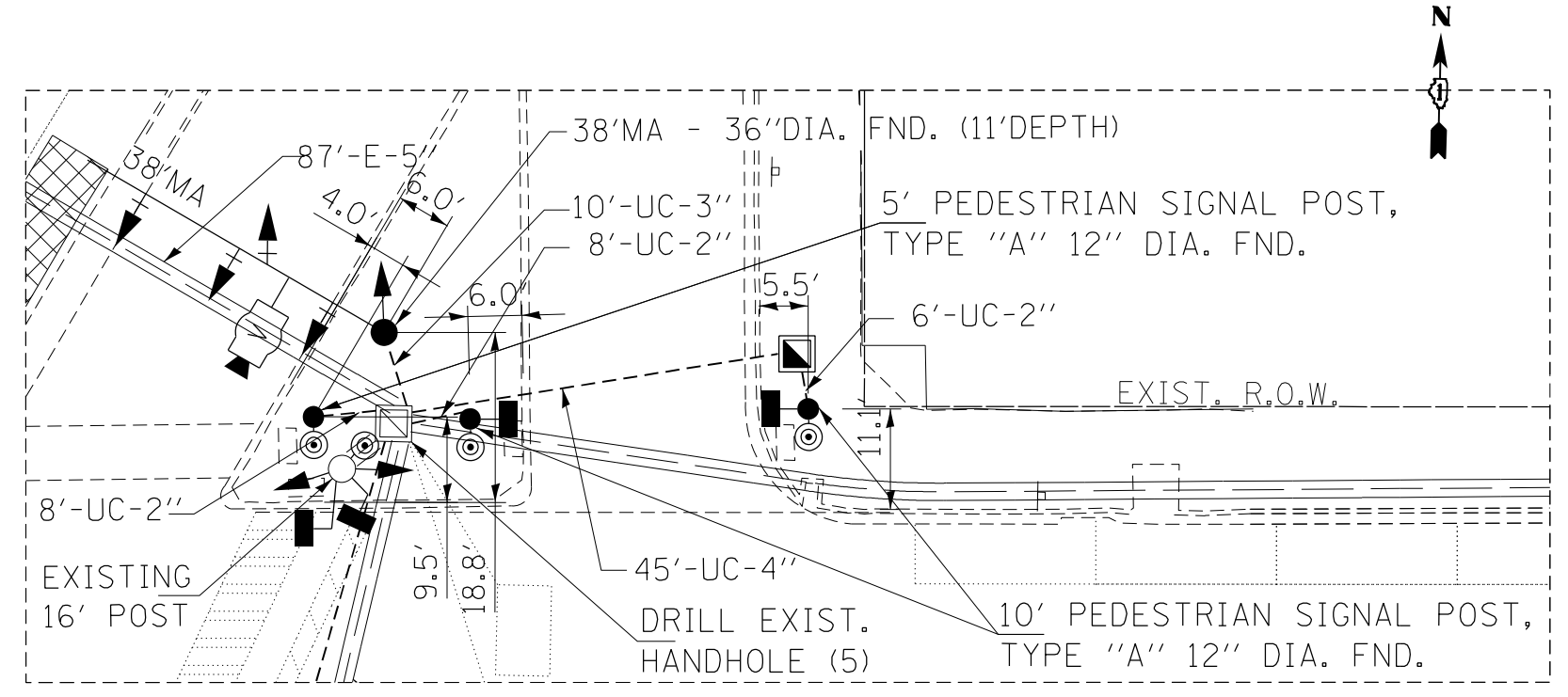
TS 3030
IDOT CONTRACS
FORMER ECON 100

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62N40				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

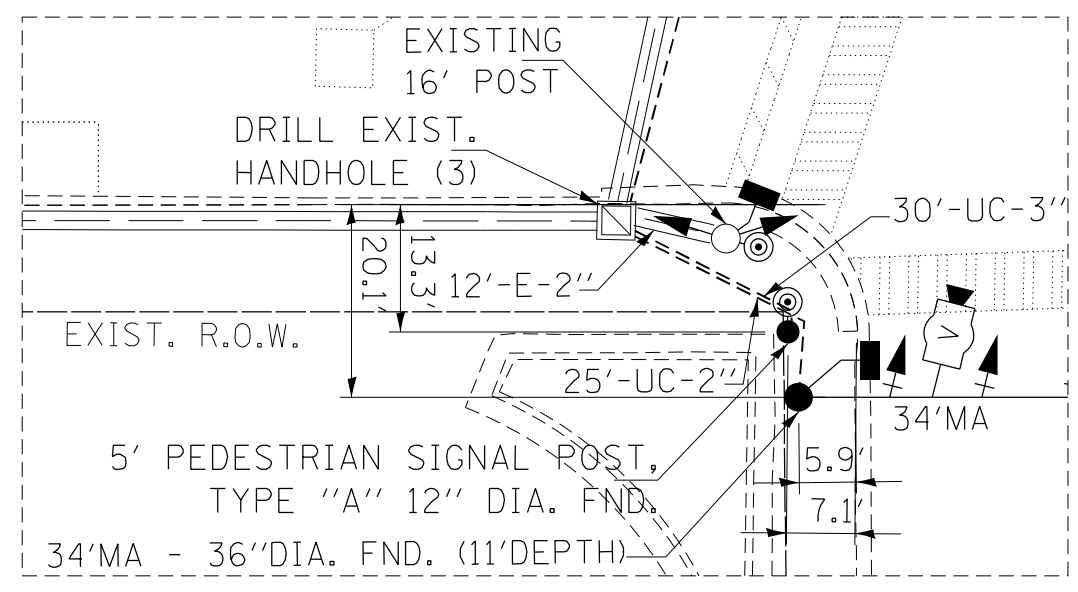
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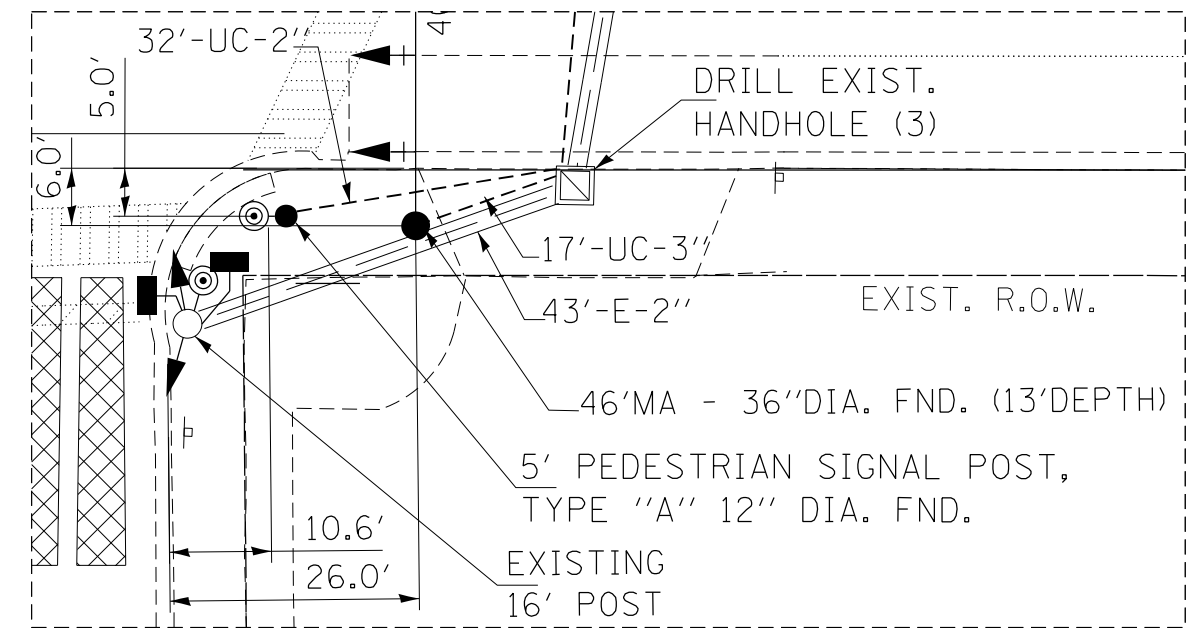
DETAIL A



DETAIL B



DETAIL D



DETAIL C

TS 3030
 IDOT CENTRACS
 FORMER ECON 100



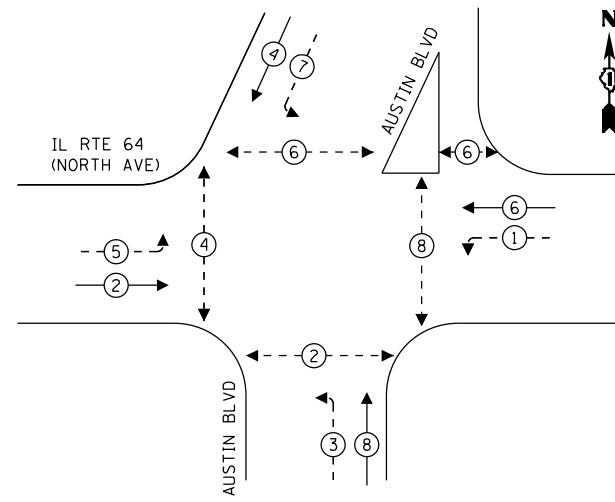
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN			
IL RTE 64 (NORTH AVE) AT AUSTIN BLVD-DETAILS			
SCALE: 1"=10'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	276
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

EXISTING AND PROPOSED CONTROLLER SEQUENCE



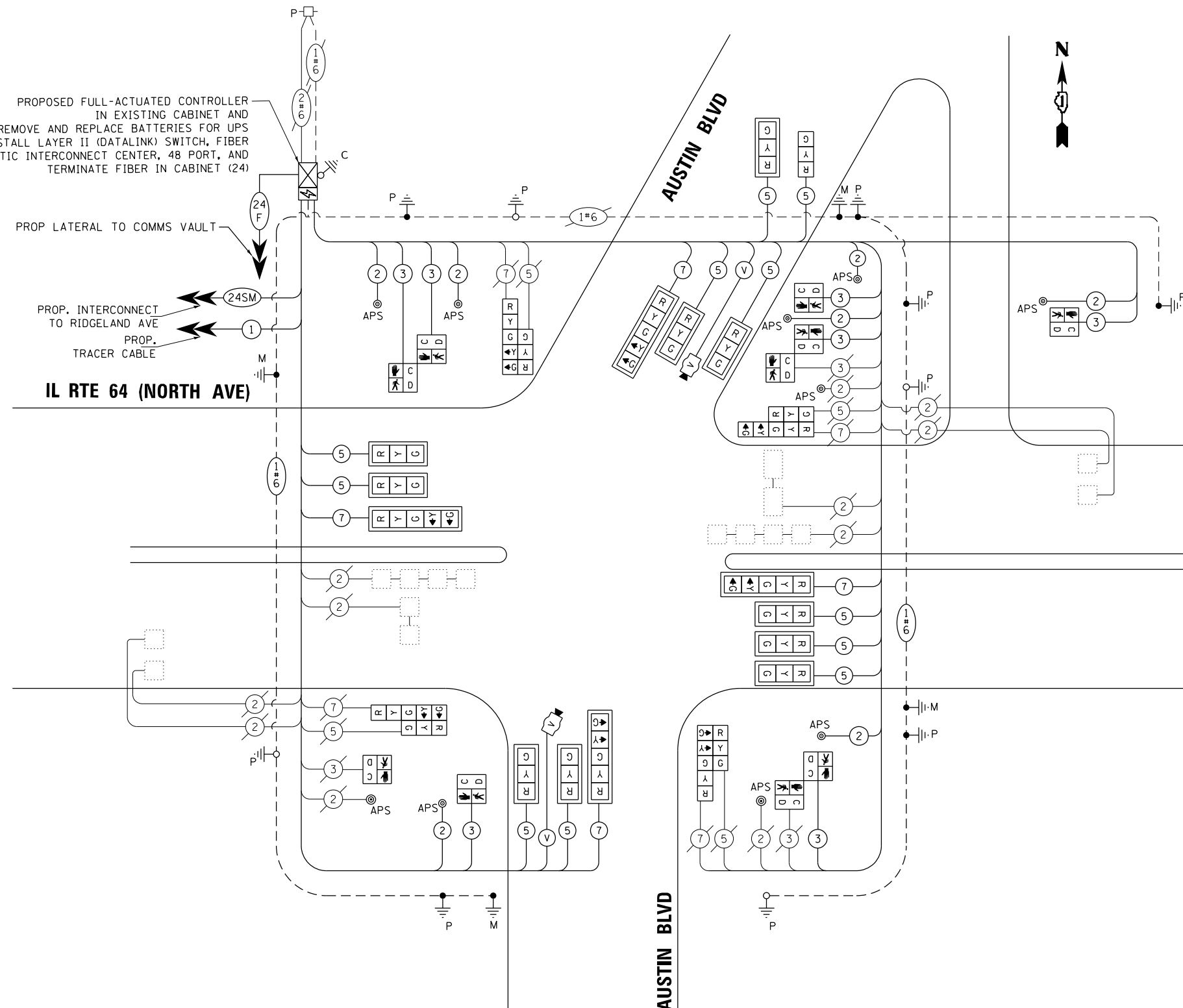
- LEGEND:**
- ← * → PROTECTED PHASE
 - ← - * - → PROTECTED/PERMITTED PHASE
 - ← - * → PEDESTRIAN PHASE
 - OL OVERLAP

PROPOSED FULL-ACTUATED CONTROLLER
IN EXISTING CABINET AND
REMOVE AND REPLACE BATTERIES FOR UPS
INSTALL LAYER II (DATALINK) SWITCH, FIBER
OPTIC INTERCONNECT CENTER, 48 PORT, AND
TERMINATE FIBER IN CABINET (24)

PROP LATERAL TO COMMS VAULT

PROP. INTERCONNECT
TO RIDGELAND AVE
PROP.
TRACER CABLE

IL RTE 64 (NORTH AVE)



CABLE PLAN
NOT TO SCALE

- NOTES:**
- ONLY RED SIGNAL FACES SHALL HAVE A LENS COVER INSTALLED.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	15	11	165
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL	10	15	150
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			669
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1274

ENERGY COSTS TO:
CITY OF CHICAGO
121 N LASALLE STREET
CGICAGO, IL 60602
ENERGY SUPPLY: CONTACT: COMED
PHONE: (855)-433-2700
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 302701-50173
METER NUMBER:

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DRAWN - AV, EA
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CHECKED - MS
DATE - 3/22/2024

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED CABLE PLAN AND PHASE DESIGNATION DIAGRAM
IL RTE 64 (NORTH AVE) AT AUSTIN BLVD
SCALE: 1"=20'
SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	277
CONTRACT NO. 62N40				

TS 3030
IDOT CENTRACS
FORMER ECON 100

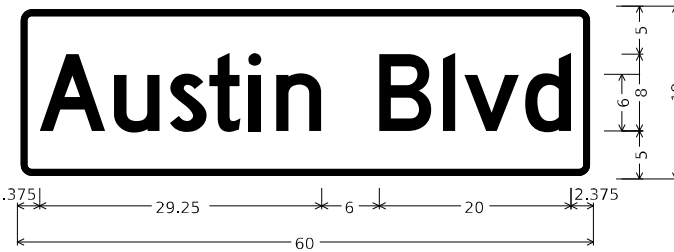
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL (TS-02).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	99
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	54
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	217
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1107
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1164
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2299
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	936
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	480
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48
DRILL EXISTING HANDHOLE	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5985
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
CENTRACS LICENSE EXPANSION	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
LED SIGNAL FACE, LENS COVER	EACH	23
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
ELECTRIC METER	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1

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 4001 WILSON ROAD, SUITE 600
 WARREN, ILL. 60555
 PHONE: 815.447.4600
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

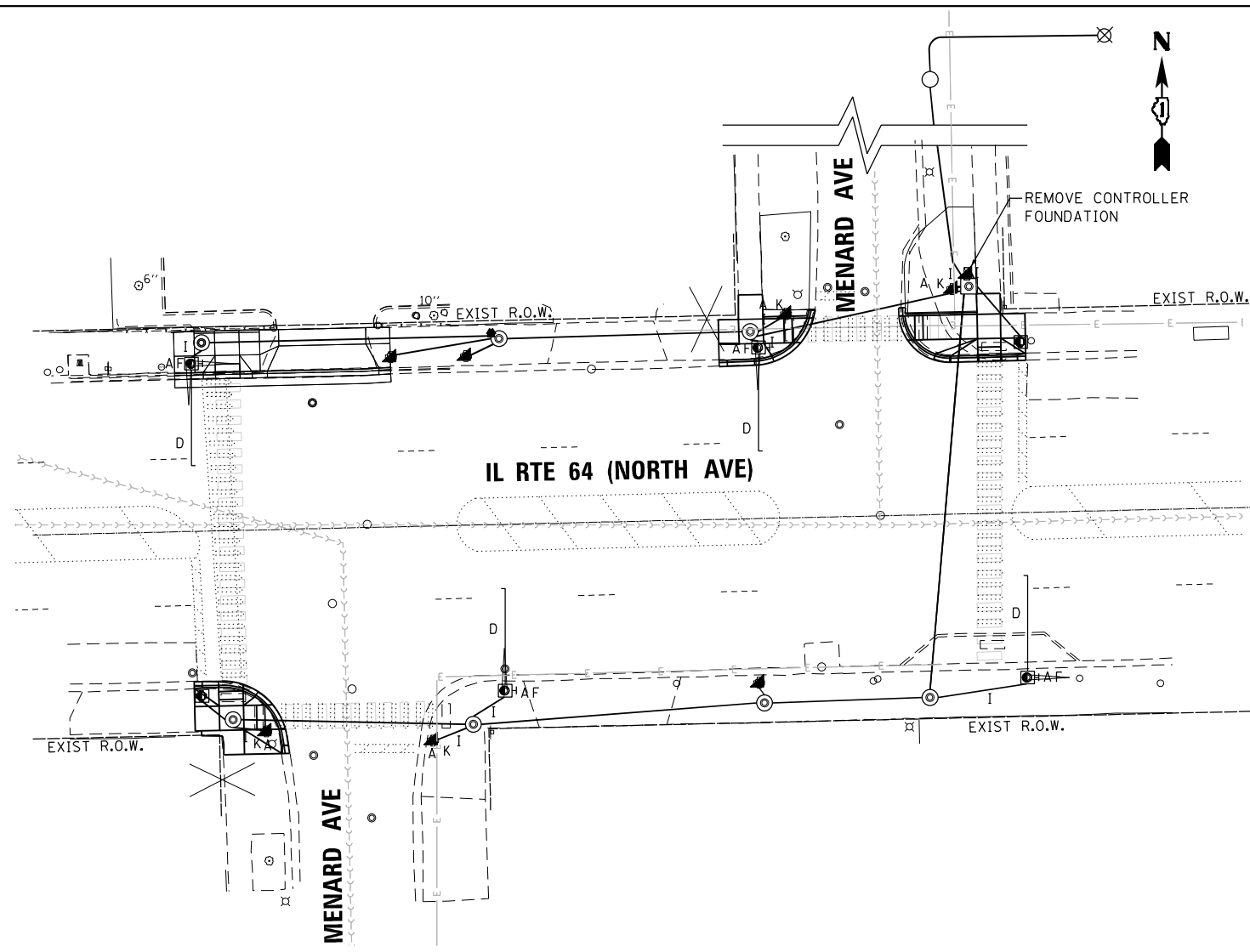
**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AND AUSTIN BLVD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	278
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

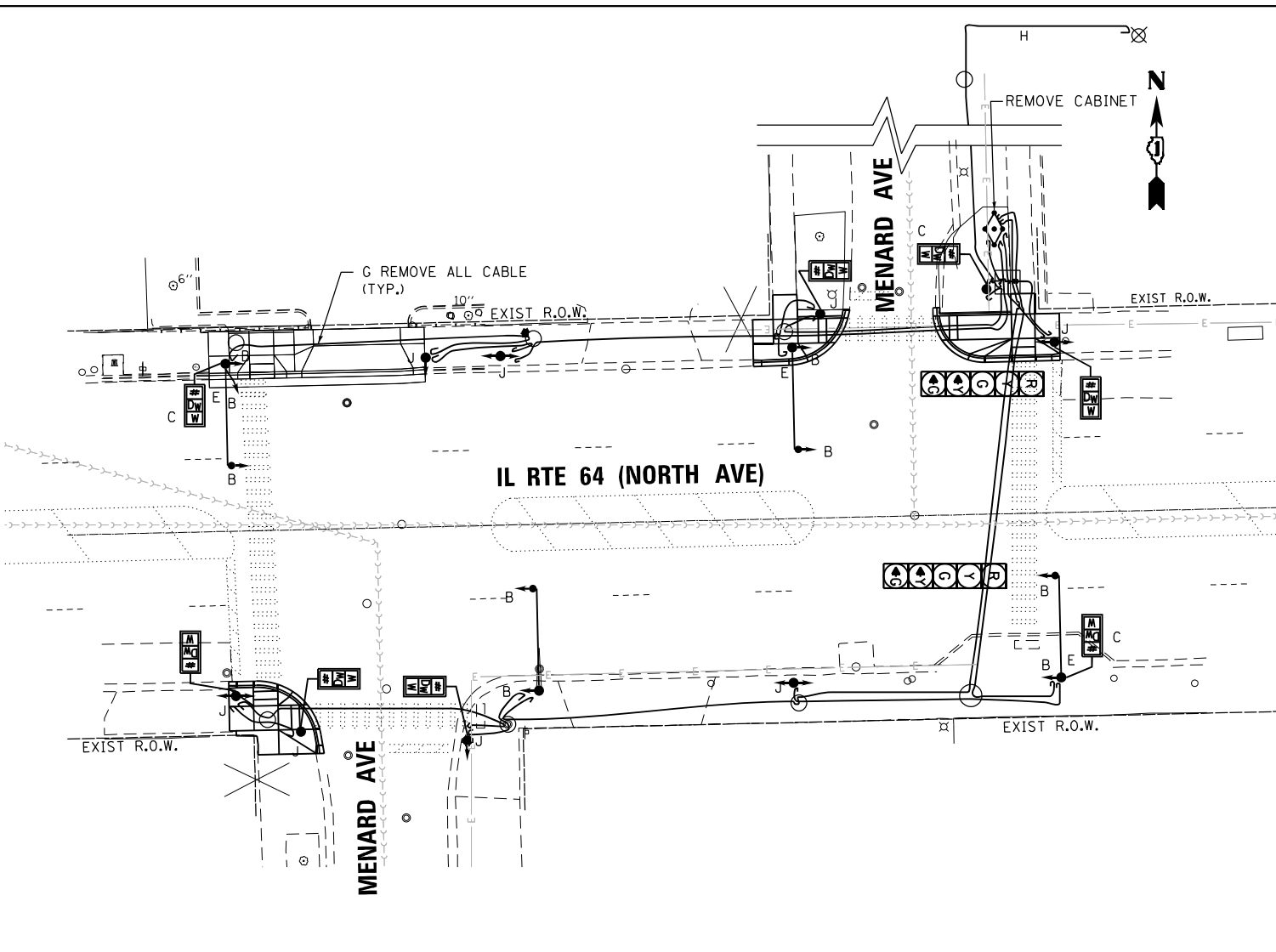
SCALE: SHEET 1 OF SHEETS STA. TO STA.

**TS 3030
IDOT CENTRACS
FORMER ECON 100**

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FOUNDATION REMOVAL PLAN



SIGNAL AND CABLE REMOVAL PLAN

- A. REMOVE CONCRETE FOUNDATION - 9
- B. REMOVE TRAFFIC SIGNAL HEAD - 9
- C. REMOVE PEDESTRIAN SIGNAL HEAD - 3
- D. REMOVE TRAFFIC SIGNAL TRUSS MAST ARM 25' - 4
- E. RELOCATE STREET NAME SIGNS TO NEW MAST ARM - 3
- F. REMOVE POLE AND BALLAST HOUSING - 4
- G. REMOVE TRAFFIC CABLE
- H. REMOVE SERVICE CABLE
- I. ABANDON CONDUIT FROM MANHOLE/HANDHOLE TO POLE OR CABINET
- J. REMOVE JUNCTION BOX - 8
- K. REMOVE TRAFFIC SIGNAL POST - 4



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

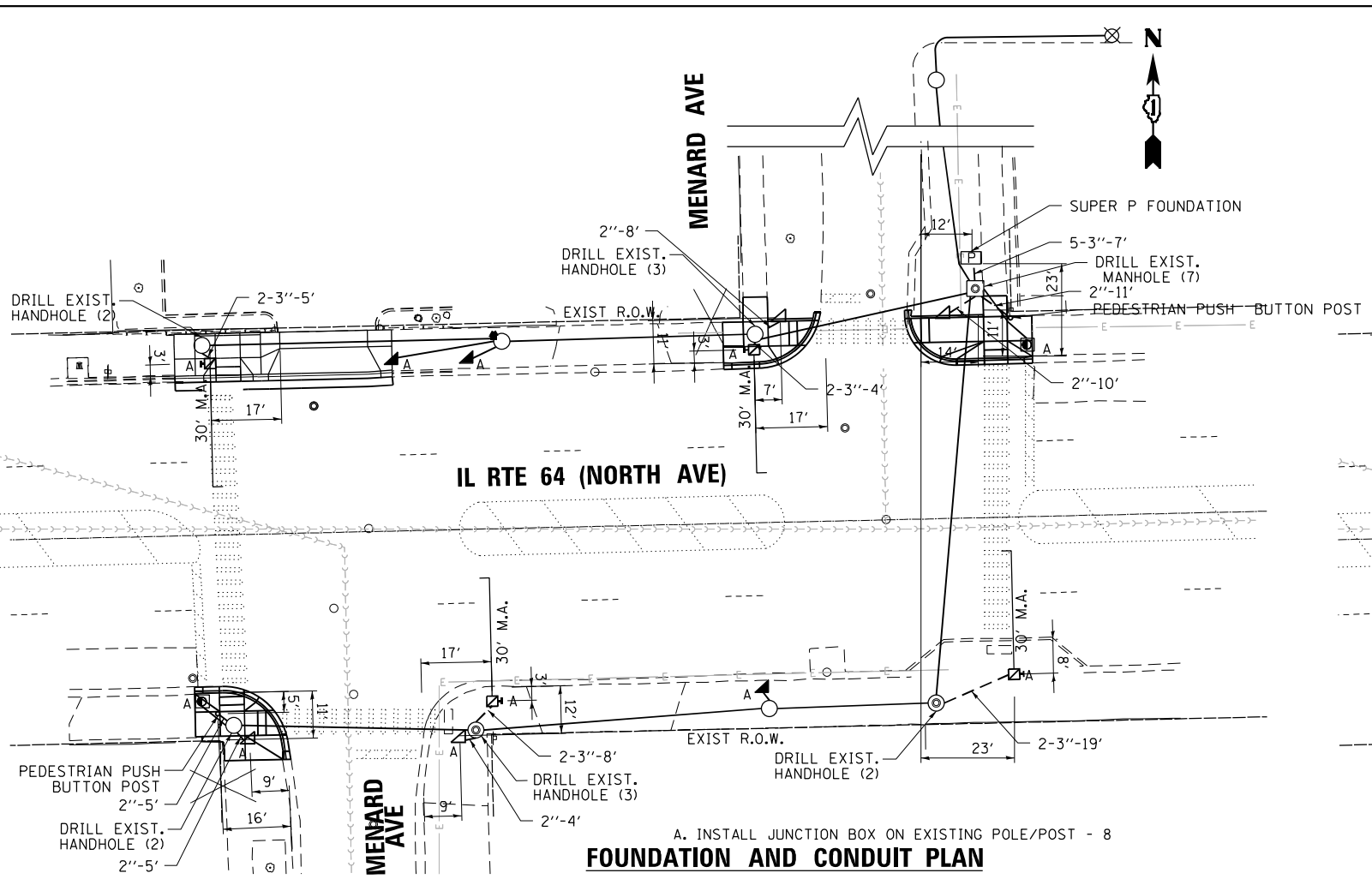
**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT MENARD AVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	279
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 14309

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

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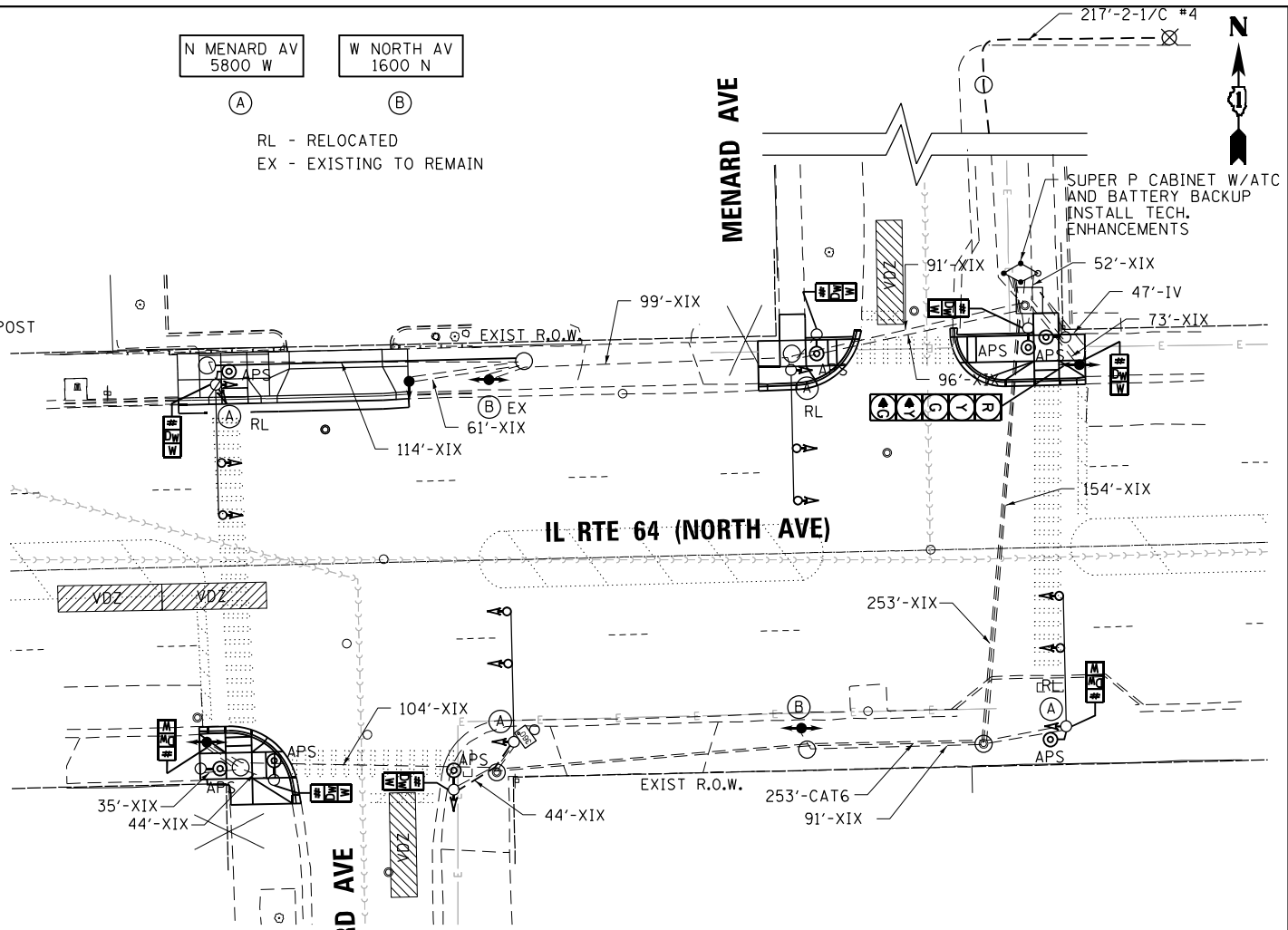
**A. INSTALL JUNCTION BOX ON EXISTING POLE/POST - 8
FOUNDATION AND CONDUIT PLAN**

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TRENCH AND BACKFILL WITH SCREENINGS (CDOT)	FOOT	150
DRILL EXISTING MANHOLE OR HANDHOLE (CDOT)	EACH	19
CLEAN EXISTING MANHOLE/HANDHOLE (CDOT)	EACH	7
CONDUIT IN TRENCH, 2" PVC (SCHEDULE 40) (CDOT)	FOOT	43
CONDUIT IN TRENCH, 3" PVC (SCHEDULE 40) (CDOT)	FOOT	107
ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM (CDOT)	FOOT	1101
CONCRETE FOUNDATION, 20" DIAMETER, 3/4" ANCHOR RODS (CDOT)	EACH	4
CONCRETE FOUNDATION, 30" DIAMETER, 17 1/4" BOLT CIRCLE, 1 1/4" A.R. (CDOT)	EACH	4
POLE, STEEL, 34' 6", ANCHOR BASE, 11"D, 3 GAUGE (CDOT)	EACH	4
RACK, SECONDARY, AERIAL 2-WIRE (CDOT)	EACH	4
WIRE, AERIAL, 1/C NO. 6 (CDOT)	FOOT	772
ELECTRIC CABLE IN CONDUIT, 1/C NO. 4 (CDOT)	FOOT	434
SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, BRACKET MOUNTED (1-FACE) (CDOT)	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, MAST ARM MOUNTED (1-FACE) (CDOT)	EACH	7
SIGNAL HEAD, POLYCARBONATE, LED, 5-SECTION, MAST ARM MOUNTED (1-FACE) (CDOT)	EACH	1
COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL (BRACKET MOUNTED) (CDOT)	EACH	8
JUNCTION BOX, POLE OR POST MOUNTED (CAST ALUMINUM) (CDOT)	EACH	12
PEDESTRIAN PUSH BUTTON POST (5') (CDOT)	EACH	2
MAST ARM, TRAFFIC, STEEL MONOTUBE, 30 FOOT (CDOT)	EACH	4
TRAFFIC SIGNAL POST, ALUMINUM, 17 FOOT (CDOT)	EACH	4
ELECTRIC CABLE IN CONDUIT, #18 4/C (CDOT)	FOOT	82
ELECTRIC CABLE IN CONDUIT, #14 19/C (CDOT)	FOOT	1276
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (CDOT)	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (CDOT)	EACH	1
STREET NAME SIGNS (CDOT)	EACH	2
REMOVE JUNCTION BOX, TSS 18 (CDOT)	EACH	8
INTERSECTION TECHNOLOGY ENHANCEMENTS (CDOT)	EACH	1
RELOCATE STREET NAME SIGN (CDOT)	EACH	4
CONCRETE FOUNDATION FOR BASE MOUNTED "SUPER P" CABINET (CDOT)	EACH	1
ATC CONTROLLER, TRAFFIC, 16 LOAD BAY, "SUPER P" CABINET, UPS (CDOT)	EACH	1
RELOCATE EXISTING STREET LUMINAIRE (CDOT)	EACH	4
MAST ARM, STEEL, STREET LIGHTING, 8 FOOT (CDOT)	EACH	4

GENERAL NOTES

- SEE STANDARD DRAWING 826 FOR CDOT TRAFFIC SIGNAL AND LIGHTING SYMBOLS.
- CLEAN ALL EXISTING HANDHOLES/MANHOLES.
- ROD AND CLEAN ALL EXISTING CONDUITS.
- TEMPORARILY CONNECT ALL SIGNALS WITH AERIAL HARNESS CABLE (8C*16) DURING REMOVAL OF EXISTING CABLE AND INSTALLATION OF NEW CABLE.
- TRAFFIC SIGNAL HEADS MOUNTED ON MAST ARMS SHALL BE A MINIMUM OF 15 FEET ABOVE THE TRAVELED ROADWAY WHEN MEASURED TO THE BOTTOM OF THE SIGNAL HOUSING.
- THE LOCATION OF THE 360 DEGREE VIDEO DETECTION CAMERA SHALL BE CONFIRMED BY CDOT DEO.
- INSTALL NEW JUNCTION BOXES ON ALL EXISTING TRAFFIC SIGNAL POLES AND POSTS.
- CONTRACTOR TO INSTALL R10-3 SIGNS FOR ALL ACCESSIBLE PEDESTRIAN SIGNALS WITH ARROW POINTED TOWARDS CROSSWALK.
- ANY JUNCTION BOX IN CONFLICT WITH THE PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL OR SIGN SHALL BE RELOCATED ON THE POLE. THIS WORK SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL INSTALLATION.
- CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.



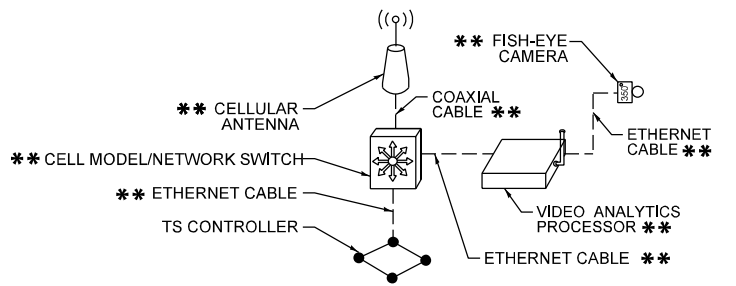
SIGNAL AND CABLE PLAN

INSTALLATION NOTES

** PAID FOR AS INTERSECTION TECHNOLOGY ENHANCEMENTS

INSTALLATION LEGEND:

PROPOSED 360 DEG FISH-EYE VEHICLE DETECTION CAMERA



COMMUNICATIONS LINE DIAGRAM



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
DATE = 3/22/2024		REVISED -

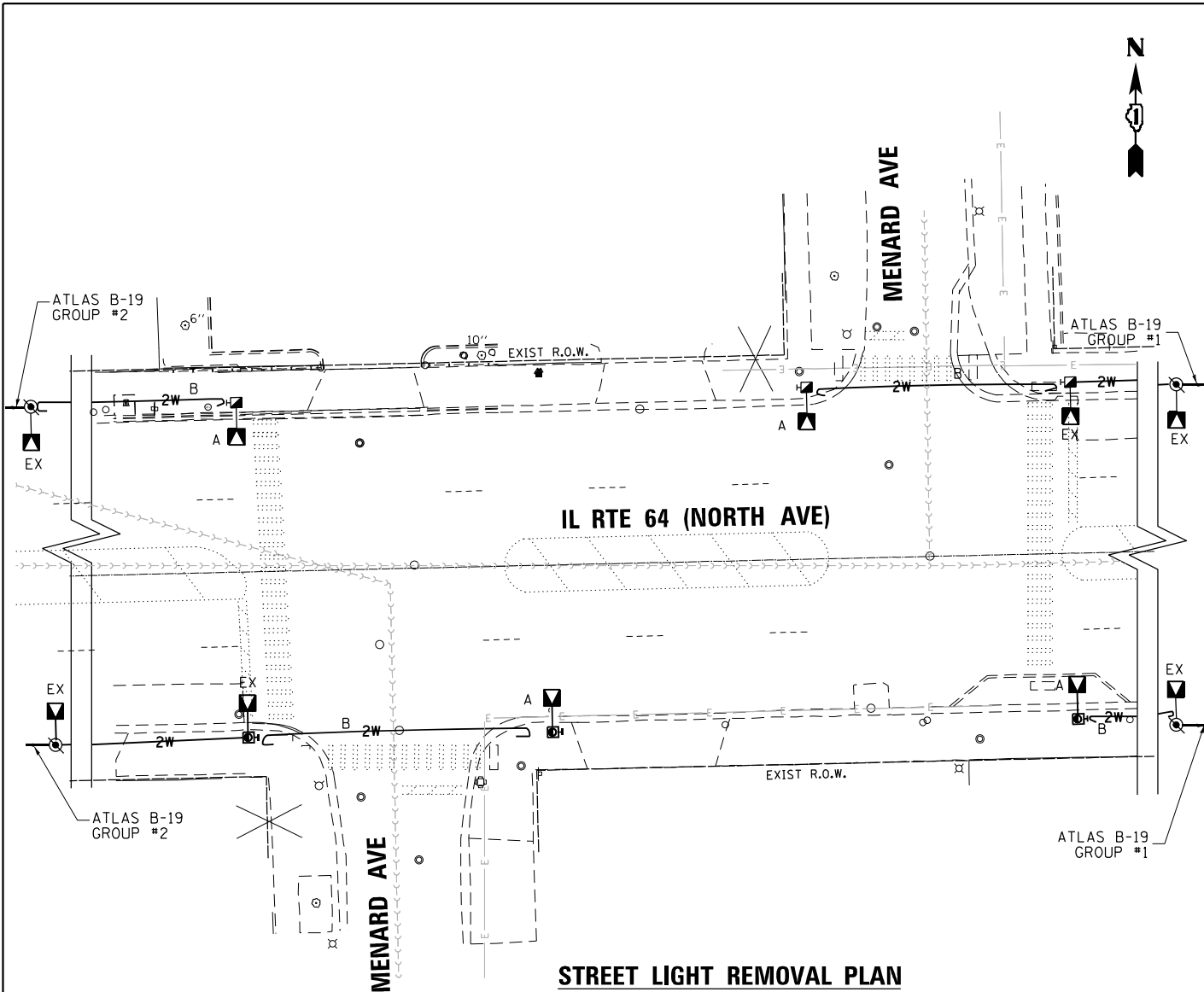
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AT MENARD AVE**

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 280
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

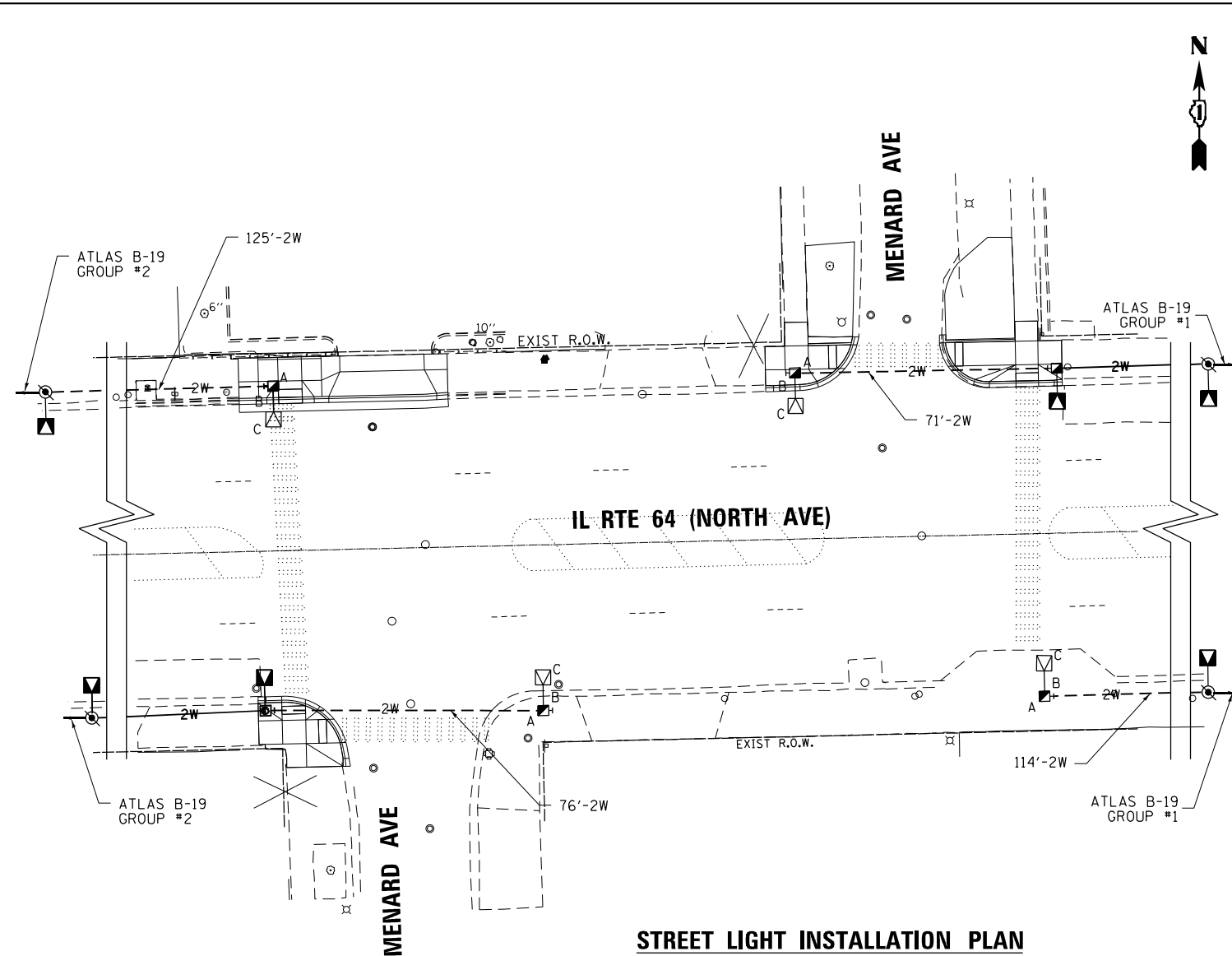
TS 14309

FILE NAME = G:\Projects\112 Design\112 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\112\114_GA1.DGN



STREET LIGHT REMOVAL PLAN

- A. REMOVE LUMINAIRE AND 8' M.A.
- B. REMOVE AERIAL WIRE

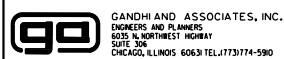


STREET LIGHT INSTALLATION PLAN

- A. INSTALL 2-WIRE RACK W/CLAMPS
- B. INSTALL NEW 8' ARMS
- C. TRANSFER LUMINAIRE TO NEW POLE

LEGEND

- 2W- INSTALL 2 1/2 #6 AERIAL WIRE
- EX EXISTING



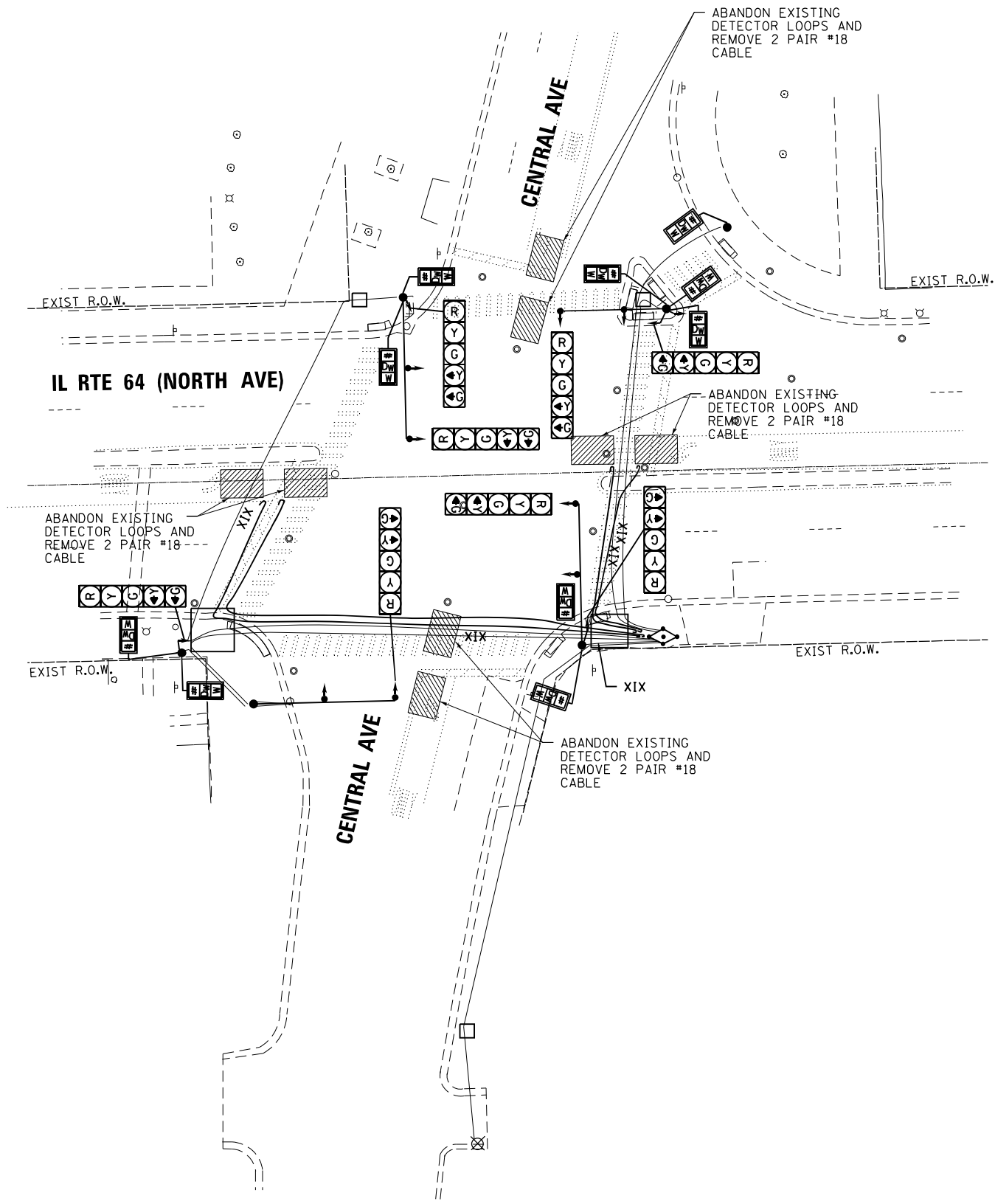
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DRAWN - AV, EA	CHECKED - MS	REVISED -
DATE - 3/22/2024		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND INSTALLATION PLAN
IL RTE 64 (NORTH AVE) AT MENARD AVE**

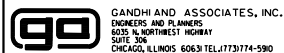
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	281
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



SIGNAL AND CABLE REMOVAL PLAN

FILE NAME = p:\h-p\p\h\g\m\h-p\p-01\Documents\01 Active Projects\W-05-16695100 - IL 64\Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\0108121-int-115.dwg



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
DRAWN - AV, EA	REVISIONS -	
CHECKED - MS	REVISIONS -	
DATE - 3/22/2024	REVISIONS -	

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

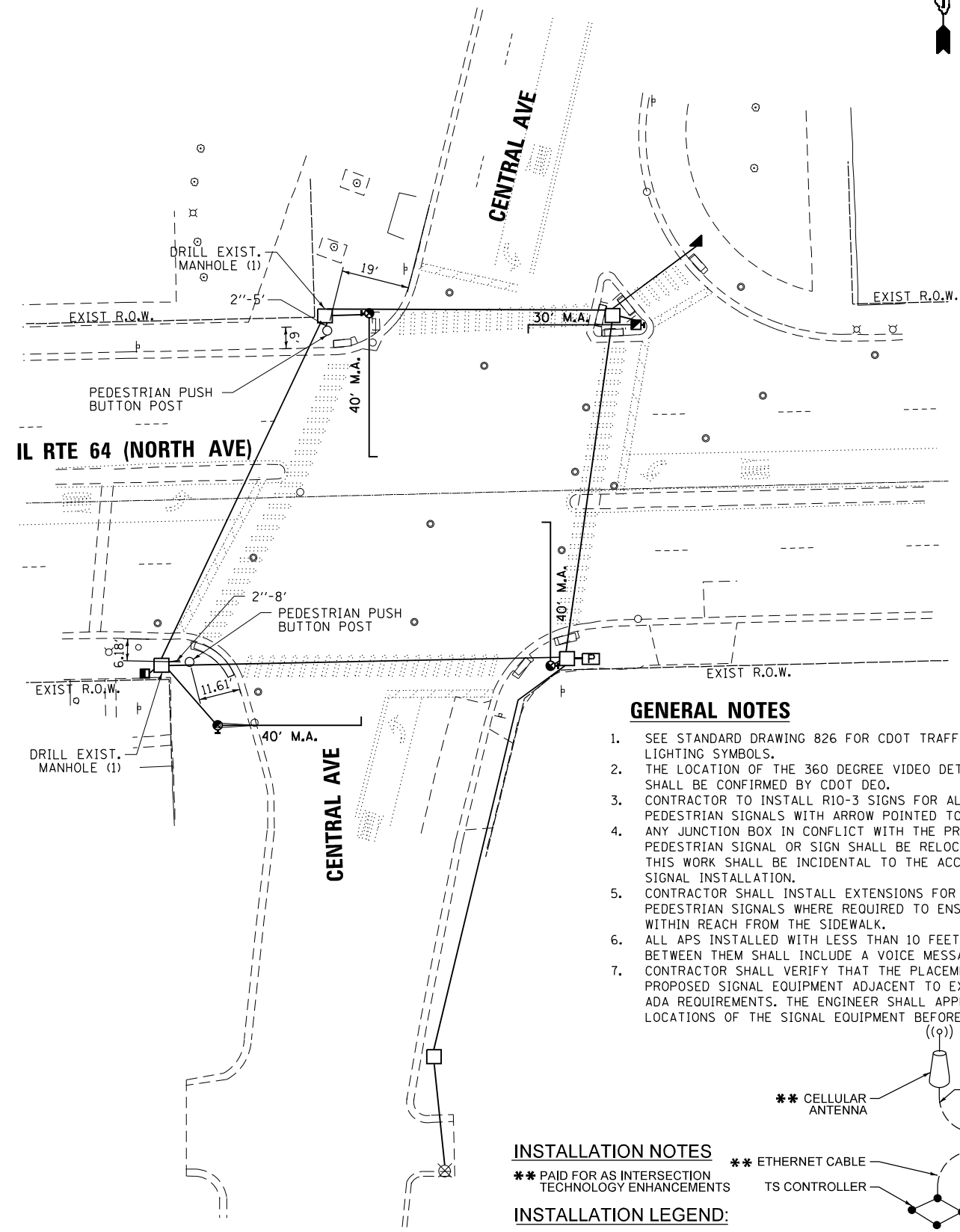
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
IL RTE 64 (NORTH AVE) AT CENTRAL AVE
 SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	282
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 12559

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FOUNDATION AND CONDUIT PLAN

GENERAL NOTES

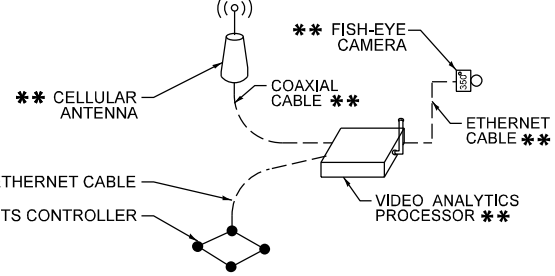
1. SEE STANDARD DRAWING 826 FOR CDOT TRAFFIC SIGNAL AND LIGHTING SYMBOLS.
2. THE LOCATION OF THE 360 DEGREE VIDEO DETECTION CAMERA SHALL BE CONFIRMED BY CDOT DEO.
3. CONTRACTOR TO INSTALL R10-3 SIGNS FOR ALL ACCESSIBLE PEDESTRIAN SIGNALS WITH ARROW POINTED TOWARDS CROSSWALK.
4. ANY JUNCTION BOX IN CONFLICT WITH THE PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL OR SIGN SHALL BE RELOCATED ON THE POLE. THIS WORK SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL INSTALLATION.
5. CONTRACTOR SHALL INSTALL EXTENSIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS WHERE REQUIRED TO ENSURE THE APS IS WITHIN REACH FROM THE SIDEWALK.
6. ALL APS INSTALLED WITH LESS THAN 10 FEET SEPARATION BETWEEN THEM SHALL INCLUDE A VOICE MESSAGE.
7. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

INSTALLATION NOTES

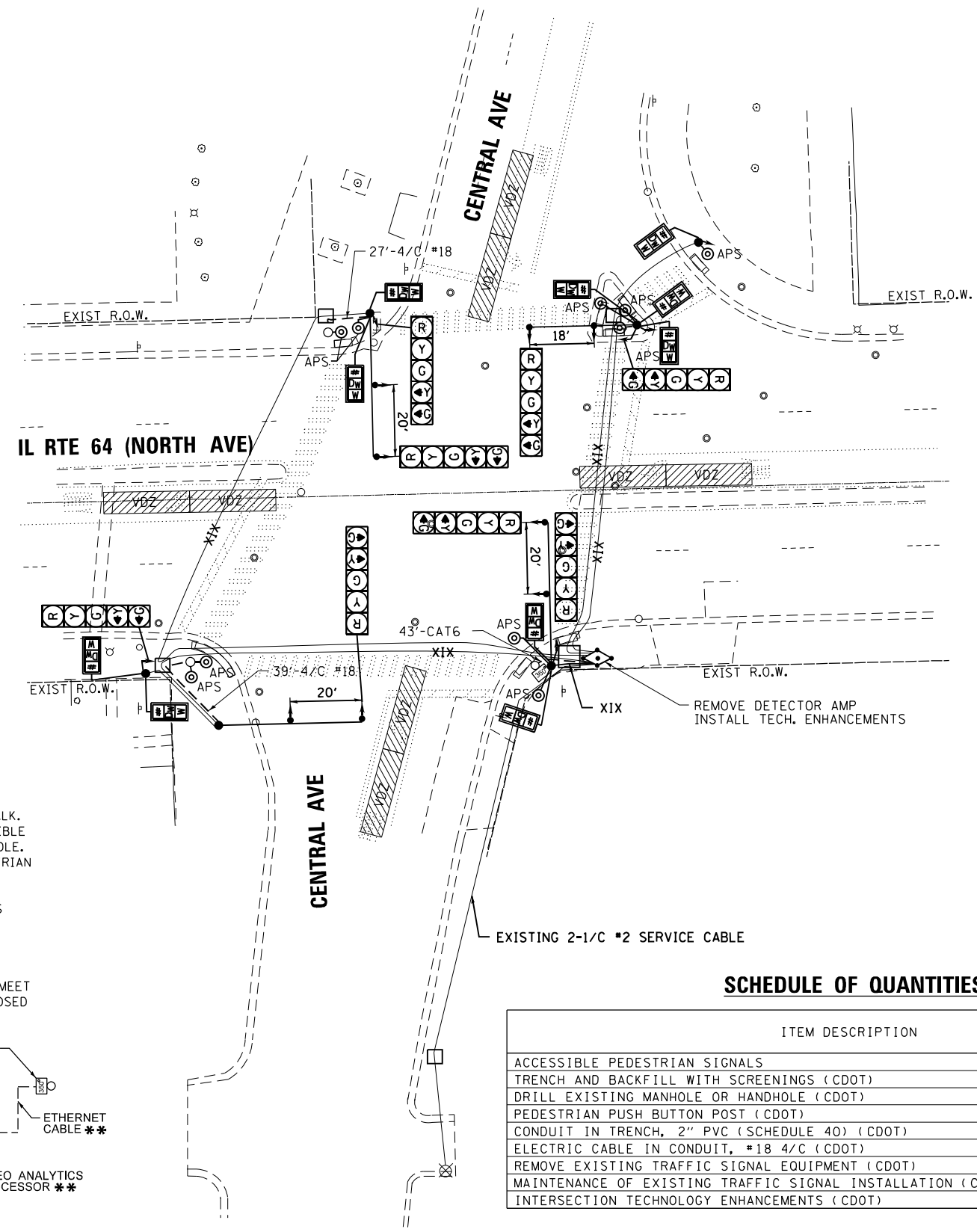
** PAID FOR AS INTERSECTION TECHNOLOGY ENHANCEMENTS

INSTALLATION LEGEND:

PROPOSED 360 DEG FISH-EYE VEHICLE DETECTION CAMERA **



COMMUNICATIONS LINE DIAGRAM



SIGNAL AND CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
TRENCH AND BACKFILL WITH SCREENINGS (CDOT)	FOOT	13
DRILL EXISTING MANHOLE OR HANDHOLE (CDOT)	EACH	2
PEDESTRIAN PUSH BUTTON POST (CDOT)	EACH	2
CONDUIT IN TRENCH, 2" PVC (SCHEDULE 40) (CDOT)	FOOT	13
ELECTRIC CABLE IN CONDUIT, #18 4/C (CDOT)	FOOT	135
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (CDOT)	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (CDOT)	EACH	1
INTERSECTION TECHNOLOGY ENHANCEMENTS (CDOT)	EACH	1



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - AV, EA	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 3/22/2024	REVISED -

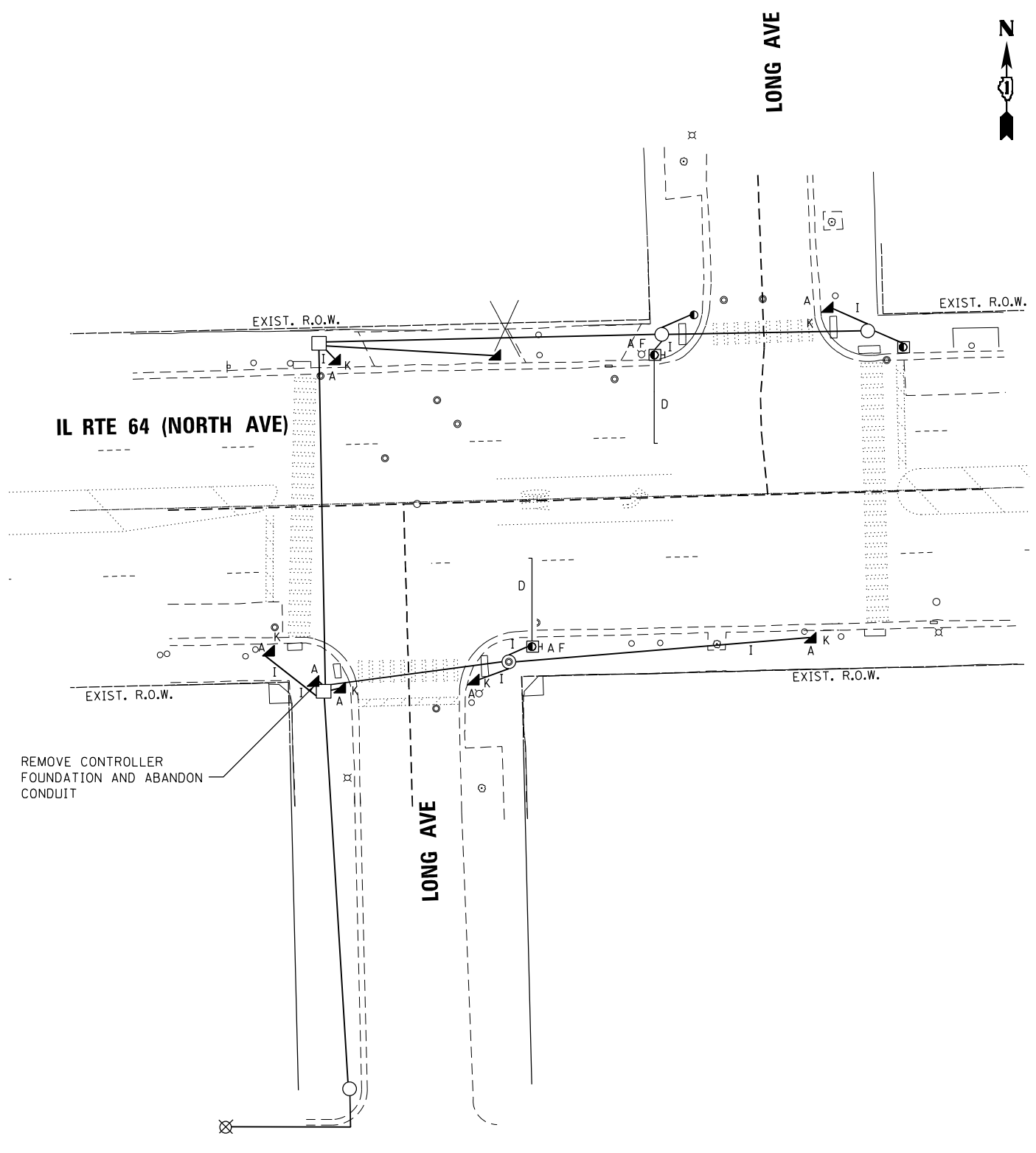
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AT CENTRAL AVE
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	283
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

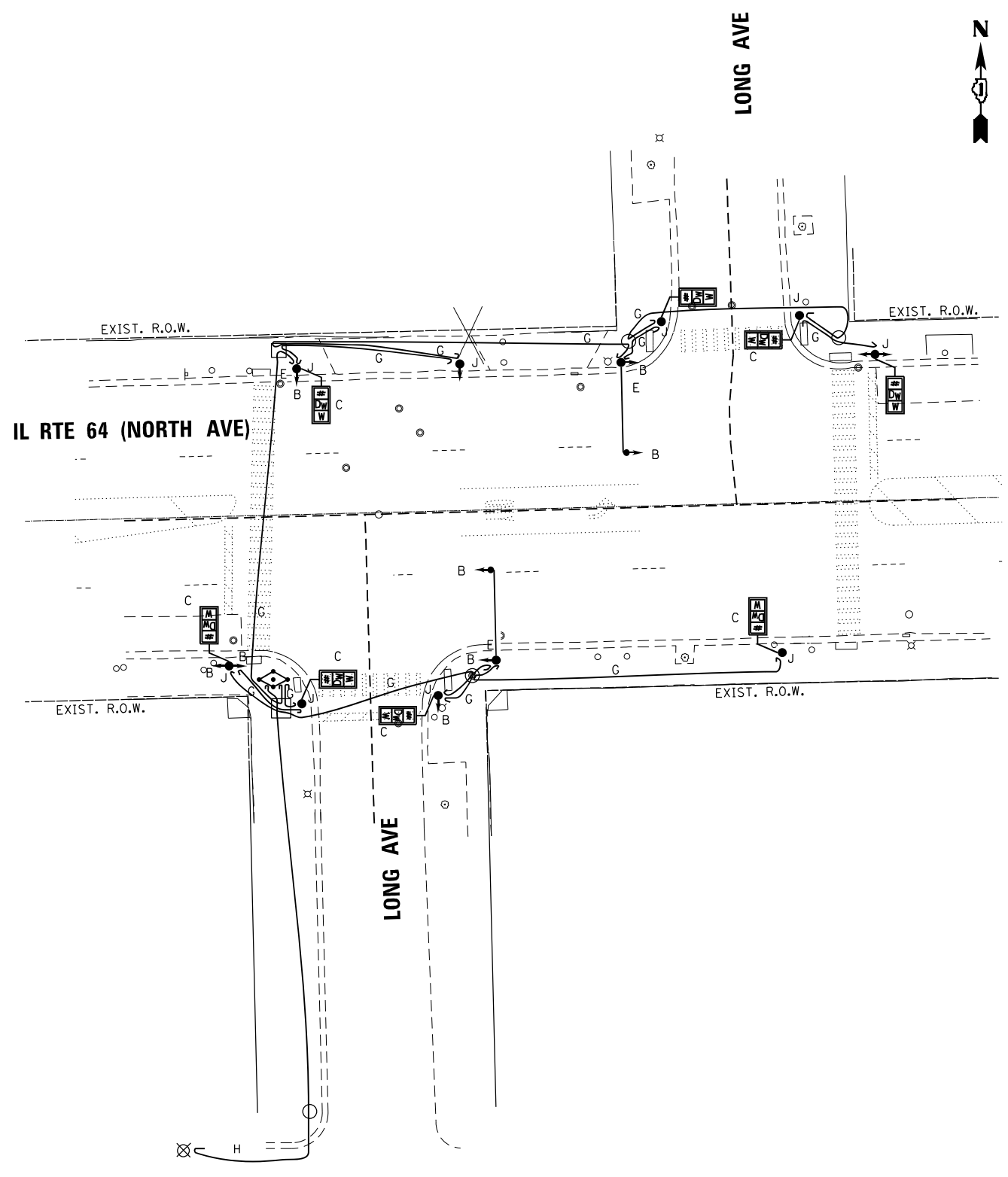
TS 12559

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FOUNDATION AND CONDUIT REMOVAL PLAN

- A. REMOVE CONCRETE FOUNDATION - 9
- B. REMOVE TRAFFIC SIGNAL HEAD - 8
- C. REMOVE PEDESTRIAN SIGNAL HEAD - 6
- D. REMOVE TRAFFIC SIGNAL TRUSS MAST ARM 25' - 2
- E. RELOCATE STREET NAME SIGNS TO NEW MAST ARM OR POST - 3
- F. REMOVE POLE AND BALLAST HOUSING - 2
- G. REMOVE TRAFFIC CABLE
- H. REMOVE SERVICE CABLE
- I. ABANDON CONDUIT FROM MANHOLE/HANDHOLE TO POLE OR CABINET
- J. REMOVE JUNCTION BOX - 9
- K. REMOVE TRAFFIC SIGNAL POST - 6



SIGNAL AND CABLE REMOVAL PLAN



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

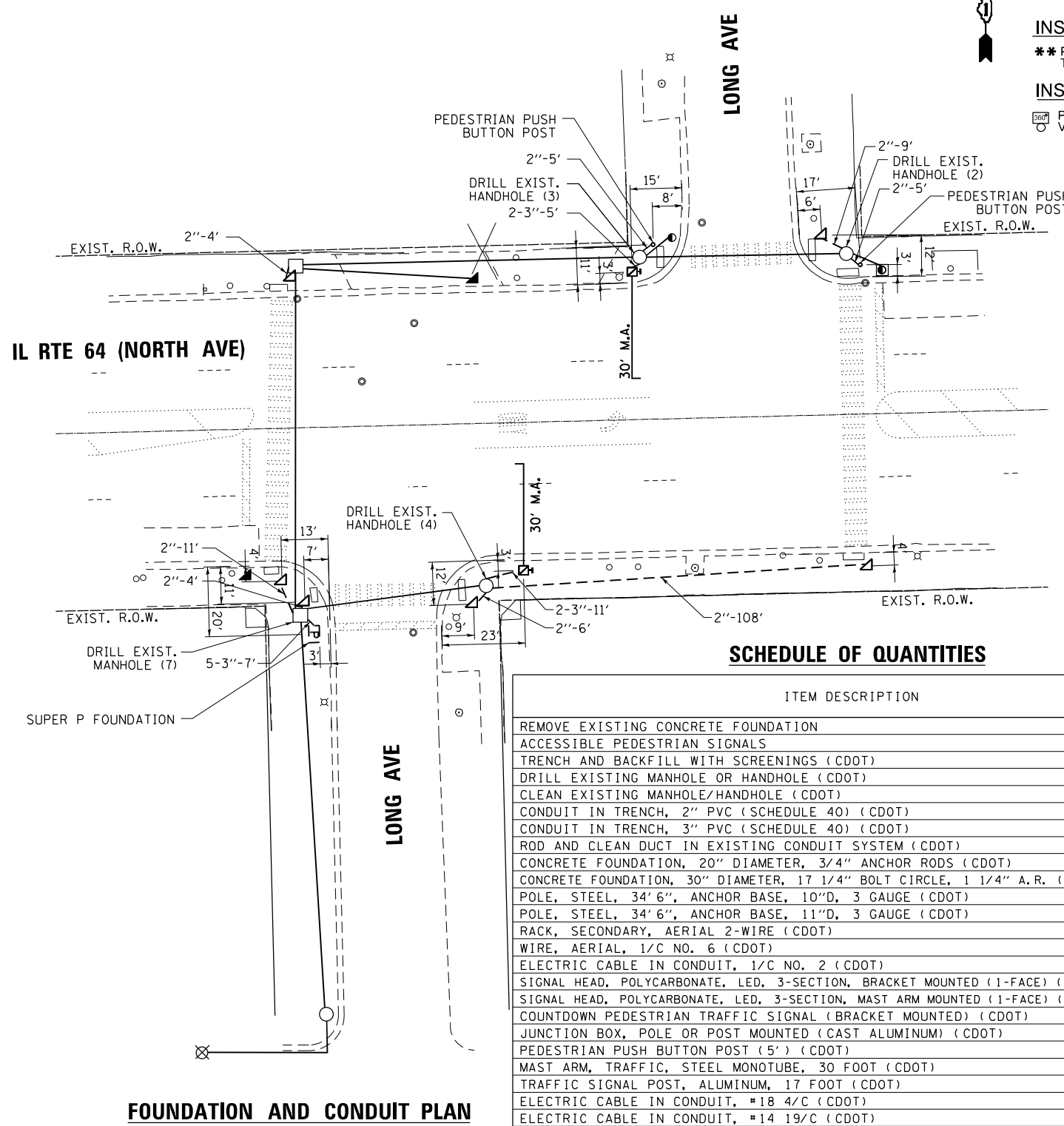
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT LONG AVE**

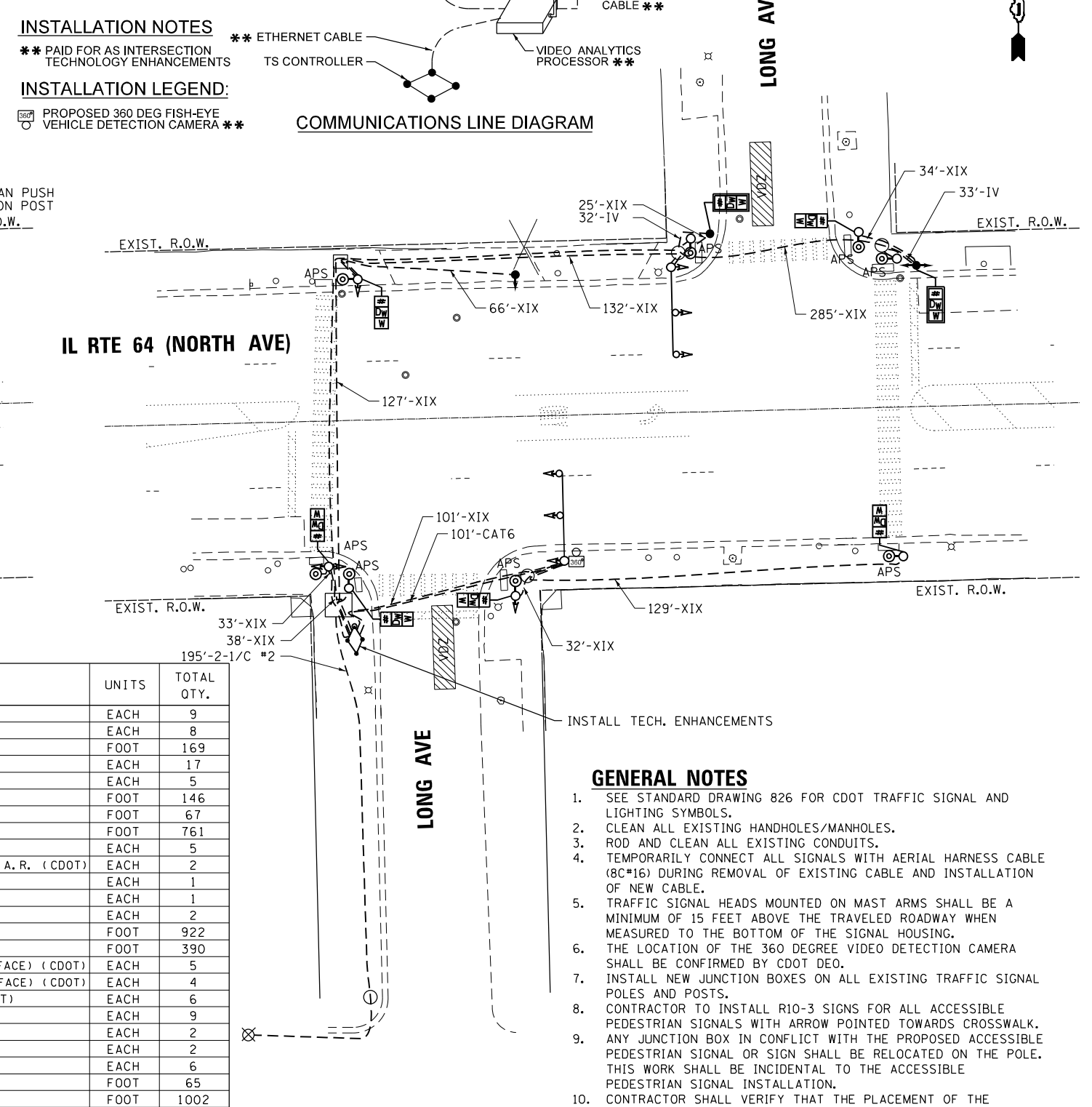
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

TS 14308	
F.A.P. RTE.	TOTAL SHEETS
SECTION	SHEET NO.
COUNTY	
307	492
2020-263-SUR, SW&TS	284
COOK	
CONTRACT NO. 62N40	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

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FOUNDATION AND CONDUIT PLAN

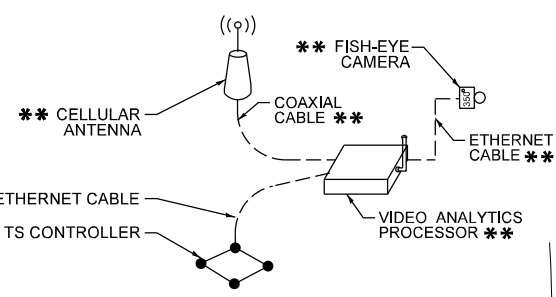


SIGNAL AND CABLE PLAN

INSTALLATION NOTES
 ** PAID FOR AS INTERSECTION TECHNOLOGY ENHANCEMENTS

INSTALLATION LEGEND:
 (Symbol) PROPOSED 360 DEG FISH-EYE VEHICLE DETECTION CAMERA **

COMMUNICATIONS LINE DIAGRAM



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TRENCH AND BACKFILL WITH SCREENINGS (CDOT)	FOOT	169
DRILL EXISTING MANHOLE OR HANDHOLE (CDOT)	EACH	17
CLEAN EXISTING MANHOLE/HANDHOLE (CDOT)	EACH	5
CONDUIT IN TRENCH, 2" PVC (SCHEDULE 40) (CDOT)	FOOT	146
CONDUIT IN TRENCH, 3" PVC (SCHEDULE 40) (CDOT)	FOOT	67
ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM (CDOT)	FOOT	761
CONCRETE FOUNDATION, 20" DIAMETER, 3/4" ANCHOR RODS (CDOT)	EACH	5
CONCRETE FOUNDATION, 30" DIAMETER, 17 1/4" BOLT CIRCLE, 1 1/4" A.R. (CDOT)	EACH	2
POLE, STEEL, 34' 6", ANCHOR BASE, 10"D, 3 GAUGE (CDOT)	EACH	1
POLE, STEEL, 34' 6", ANCHOR BASE, 11"D, 3 GAUGE (CDOT)	EACH	1
RACK, SECONDARY, AERIAL 2-WIRE (CDOT)	EACH	2
WIRE, AERIAL, 1/C NO. 6 (CDOT)	FOOT	922
ELECTRIC CABLE IN CONDUIT, 1/C NO. 2 (CDOT)	FOOT	390
SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, BRACKET MOUNTED (1-FACE) (CDOT)	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, MAST ARM MOUNTED (1-FACE) (CDOT)	EACH	4
COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL (BRACKET MOUNTED) (CDOT)	EACH	6
JUNCTION BOX, POLE OR POST MOUNTED (CAST ALUMINUM) (CDOT)	EACH	9
PEDESTRIAN PUSH BUTTON POST (5') (CDOT)	EACH	2
MAST ARM, TRAFFIC, STEEL MONOTUBE, 30 FOOT (CDOT)	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM, 17 FOOT (CDOT)	EACH	6
ELECTRIC CABLE IN CONDUIT, #18 4/C (CDOT)	FOOT	65
ELECTRIC CABLE IN CONDUIT, #14 19/C (CDOT)	FOOT	1002
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (CDOT)	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (CDOT)	EACH	1
REMOVE JUNCTION BOX, TSS 18 (CDOT)	EACH	9
INTERSECTION TECHNOLOGY ENHANCEMENTS (CDOT)	EACH	1
RELOCATE STREET NAME SIGN (CDOT)	EACH	3
CONCRETE FOUNDATION FOR BASE MOUNTED "SUPER P" CABINET (CDOT)	EACH	1
ATC CONTROLLER, TRAFFIC, 16 LOAD BAY, "SUPER P" CABINET, UPS (CDOT)	EACH	1
RELOCATE EXISTING STREET LUMINAIRE (CDOT)	EACH	2
MAST ARM, STEEL, STREET LIGHTING, 8 FOOT (CDOT)	EACH	2

GENERAL NOTES

- SEE STANDARD DRAWING 826 FOR CDOT TRAFFIC SIGNAL AND LIGHTING SYMBOLS.
- CLEAN ALL EXISTING HANDHOLES/MANHOLES.
- ROD AND CLEAN ALL EXISTING CONDUITS.
- TEMPORARILY CONNECT ALL SIGNALS WITH AERIAL HARNESS CABLE (8C#16) DURING REMOVAL OF EXISTING CABLE AND INSTALLATION OF NEW CABLE.
- TRAFFIC SIGNAL HEADS MOUNTED ON MAST ARMS SHALL BE A MINIMUM OF 15 FEET ABOVE THE TRAVELED ROADWAY WHEN MEASURED TO THE BOTTOM OF THE SIGNAL HOUSING.
- THE LOCATION OF THE 360 DEGREE VIDEO DETECTION CAMERA SHALL BE CONFIRMED BY CDOT DEO.
- INSTALL NEW JUNCTION BOXES ON ALL EXISTING TRAFFIC SIGNAL POLES AND POSTS.
- CONTRACTOR TO INSTALL R10-3 SIGNS FOR ALL ACCESSIBLE PEDESTRIAN SIGNALS WITH ARROW POINTED TOWARDS CROSSWALK.
- ANY JUNCTION BOX IN CONFLICT WITH THE PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL OR SIGN SHALL BE RELOCATED ON THE POLE. THIS WORK SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL INSTALLATION.
- CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.



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PLOT SCALE = 48.0000' / in.	DRAWN - AV, EA	REVISED -
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	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

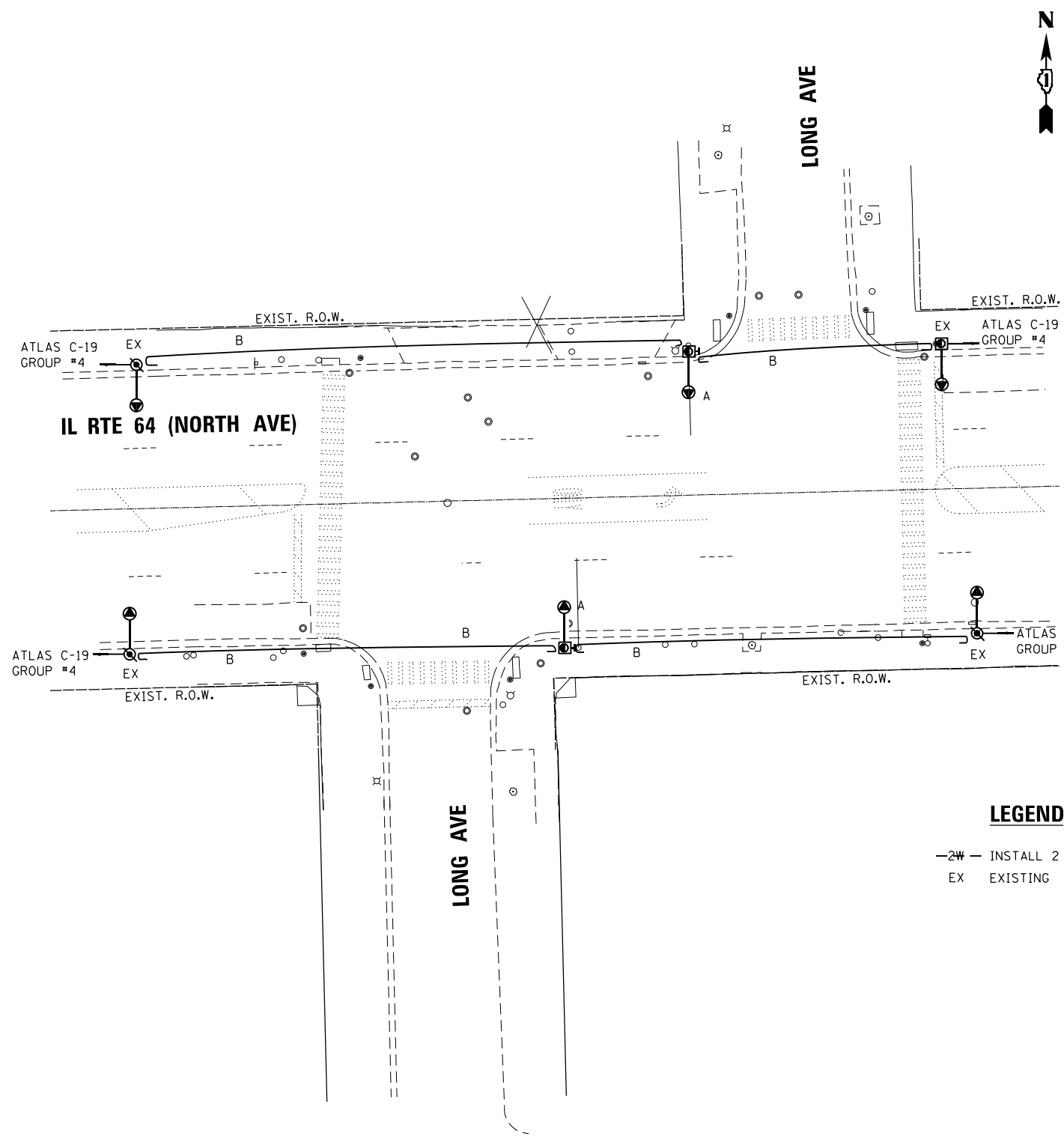
TRAFFIC SIGNAL MODERNIZATION PLAN AND SCHEDULE OF QUANTITIES
 IL RTE 64 (NORTH AVE) AT LONG AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	285
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

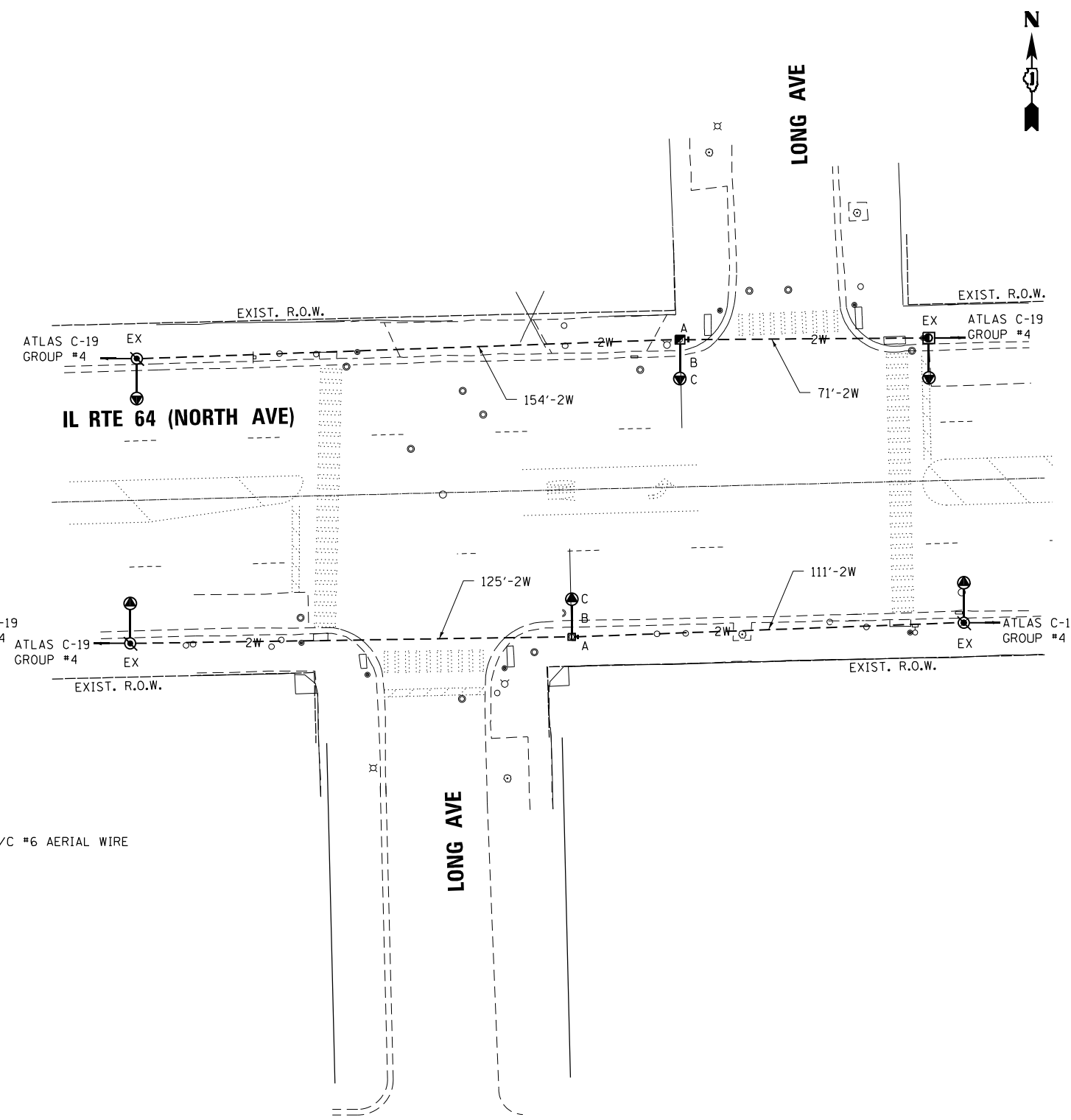
TS 14308

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STREET LIGHT REMOVAL PLAN

- A. REMOVE LUMINAIRE AND 8' M.A.
- B. REMOVE AERIAL WIRE



STREET LIGHT INSTALLATION PLAN

- A. INSTALL 2-WIRE RACK W/CLAMPS
- B. INSTALL NEW 8' ARMS
- C. TRANSFER LUMINAIRE TO NEW POLE

LEGEND

- 2W - INSTALL 2 1/C #6 AERIAL WIRE
- EX - EXISTING



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
DRAWN - AV, EA	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

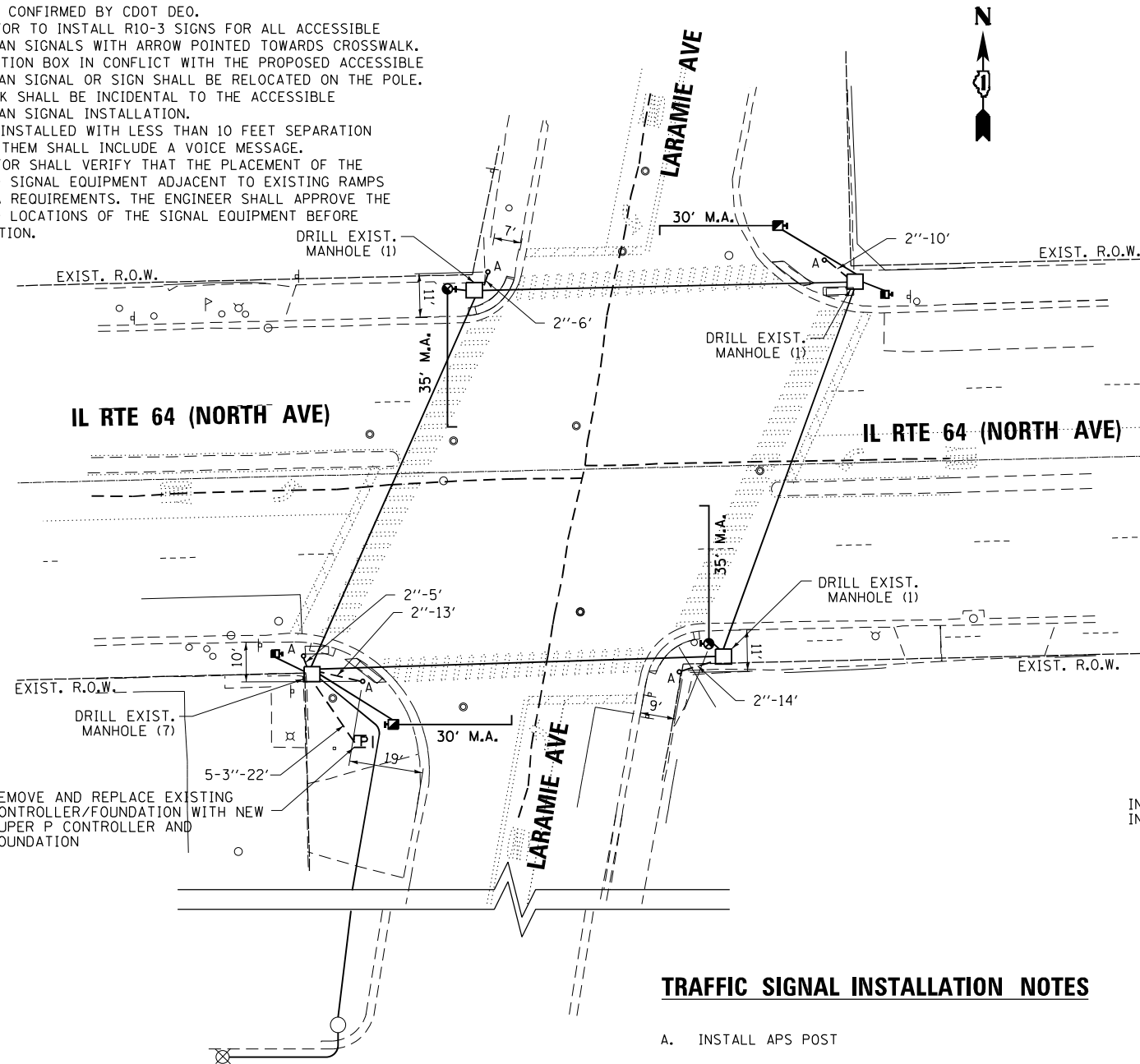
LIGHTING MODIFICATION PLAN IL RTE 64 (NORTH AVE) AT LONG AVE			
SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	286
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

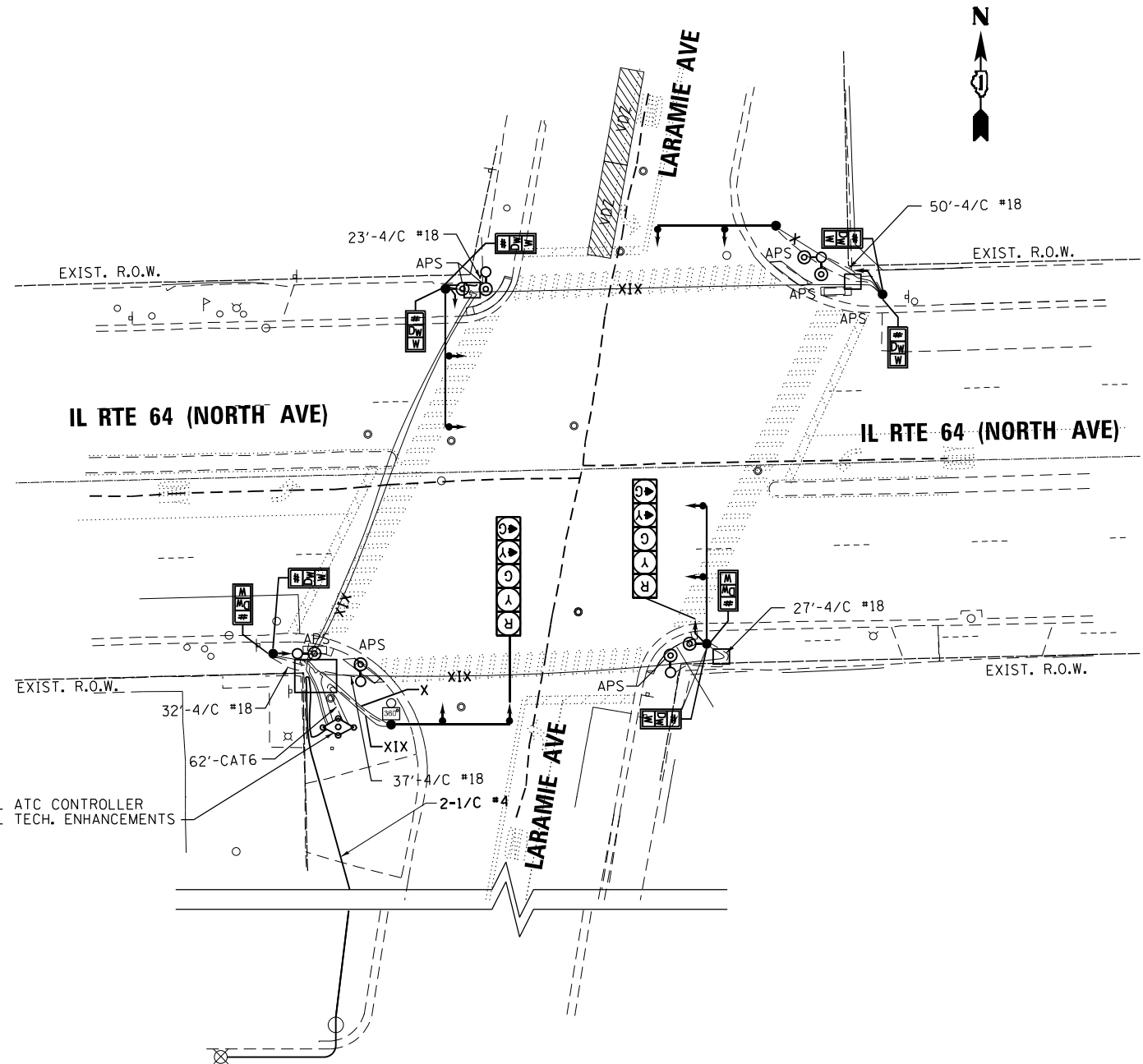
TS 14308

GENERAL NOTES

- SEE STANDARD DRAWING 826 FOR CDOT TRAFFIC SIGNAL AND LIGHTING SYMBOLS.
- THE LOCATION OF THE 360 DEGREE VIDEO DETECTION CAMERA SHALL BE CONFIRMED BY CDOT DEO.
- CONTRACTOR TO INSTALL R10-3 SIGNS FOR ALL ACCESSIBLE PEDESTRIAN SIGNALS WITH ARROW POINTED TOWARDS CROSSWALK.
- ANY JUNCTION BOX IN CONFLICT WITH THE PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL OR SIGN SHALL BE RELOCATED ON THE POLE. THIS WORK SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL INSTALLATION.
- ALL APS INSTALLED WITH LESS THAN 10 FEET SEPARATION BETWEEN THEM SHALL INCLUDE A VOICE MESSAGE.
- CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.



FOUNDATION AND CONDUIT PLAN



SIGNAL AND CABLE PLAN

TRAFFIC SIGNAL INSTALLATION NOTES

A. INSTALL APS POST

SCHEDULE OF QUANTITIES

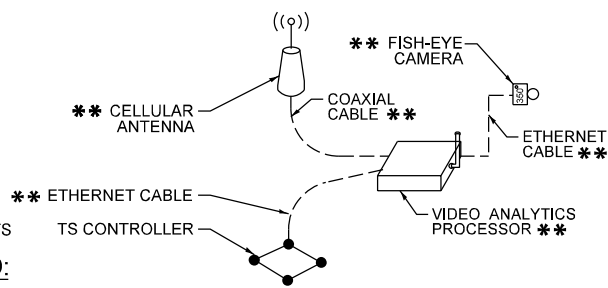
ITEM DESCRIPTION	UNITS	TOTAL QTY.
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TRENCH AND BACKFILL WITH SCREENINGS (CDOT)	FOOT	70
DRILL EXISTING MANHOLE OR HANDHOLE (CDOT)	EACH	10
CONDUIT IN TRENCH, 2" PVC (SCHEDULE 40) (CDOT)	FOOT	48
CONDUIT IN TRENCH, 3" PVC (SCHEDULE 40) (CDOT)	FOOT	110
CONCRETE FOUNDATION FOR BASE MOUNTED "SUPER P" CABINET (CDOT)	EACH	1
PEDESTRIAN PUSH BUTTON POST (5') (CDOT)	EACH	5
ELECTRIC CABLE IN CONDUIT, #18 4/C (CDOT)	FOOT	206
ATC CONTROLLER, TRAFFIC, 16 LOAD BAY, "SUPER P" CABINET, UPS (CDOT)	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (CDOT)	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (CDOT)	EACH	1
INTERSECTION TECHNOLOGY ENHANCEMENTS (CDOT)	EACH	1

INSTALLATION NOTES

** PAID FOR AS INTERSECTION TECHNOLOGY ENHANCEMENTS

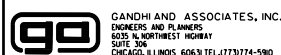
INSTALLATION LEGEND:

- PROPOSED 360 DEG FISH-EYE VEHICLE DETECTION CAMERA **



COMMUNICATIONS LINE DIAGRAM

FILE NAME = ... GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 208 CHICAGO, ILLINOIS 60630 TEL: 773-774-590



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - AV, EA	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

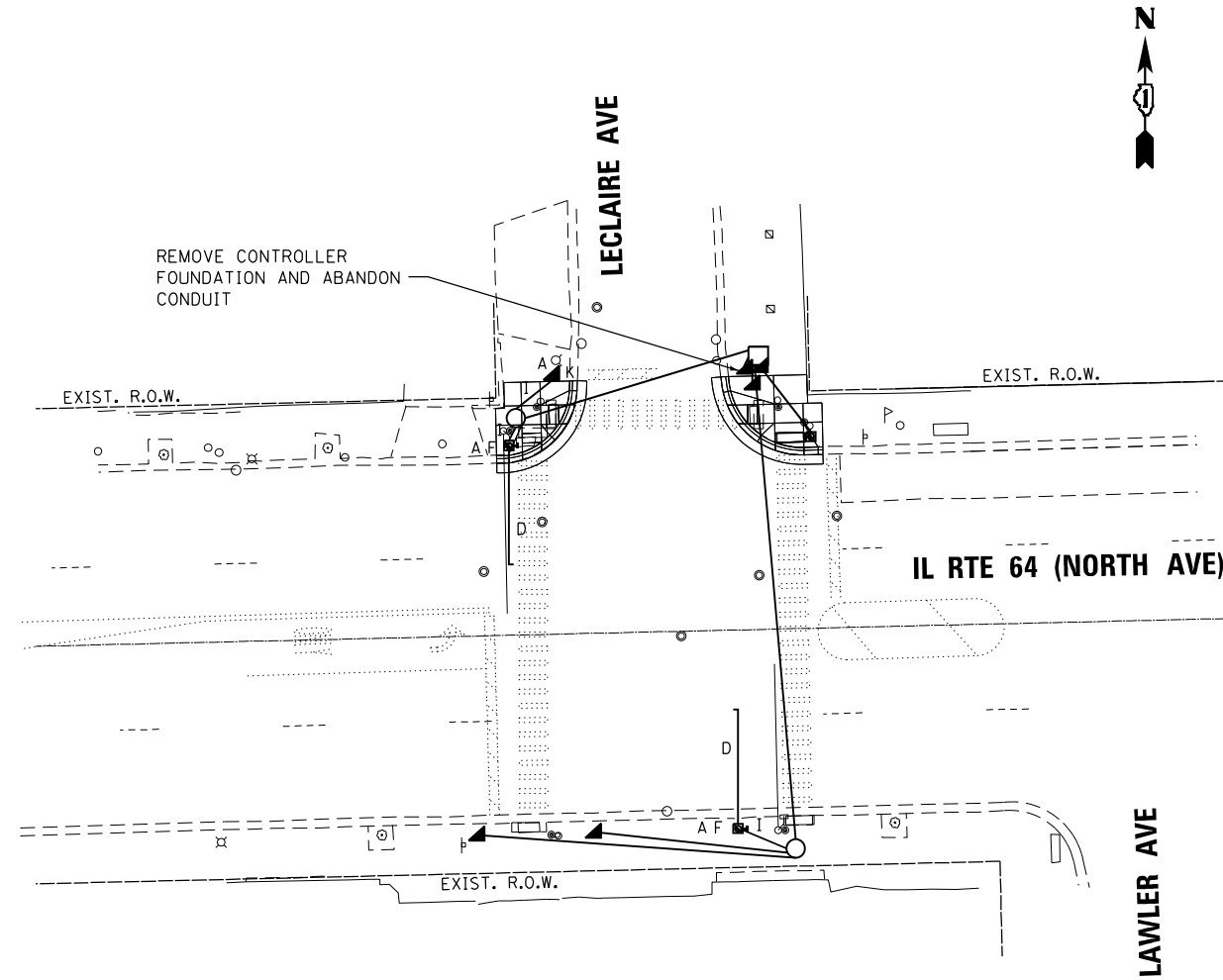
**TRAFFIC SIGNAL MODERNIZATION PLAN AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AT LARAMIE AVE**

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

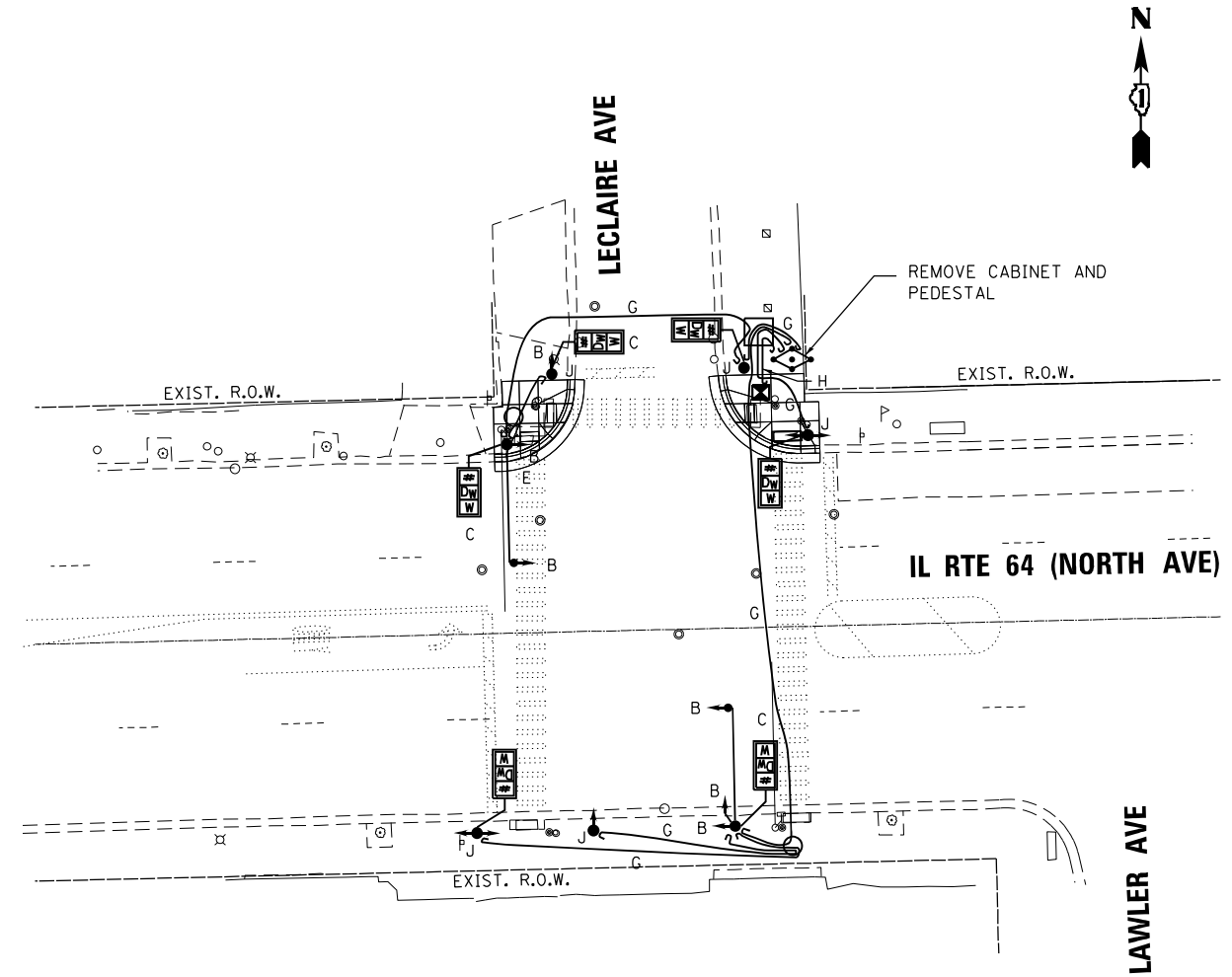
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	287
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 12920

FILE NAME = p:\11\p-bent\gucemh-pa-01\Documents\01 Active Projects\MH-CIS-16895100 - IL 64\Phase 1\1.2 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\0108121-int-15-121.GA1.DGN

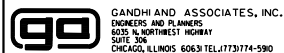


FOUNDATION AND CONDUIT REMOVAL PLAN



SIGNAL AND CABLE REMOVAL PLAN

- A. REMOVE CONCRETE FOUNDATION - 4
- B. REMOVE TRAFFIC SIGNAL HEAD - 6
- C. REMOVE PEDESTRIAN SIGNAL HEAD - 3
- D. REMOVE TRAFFIC SIGNAL TRUSS MAST ARM 25' - 2
- E. RELOCATE STREET NAME SIGNS TO NEW MAST ARM - 2
- F. REMOVE POLE AND BALLAST HOUSING - 2
- G. REMOVE TRAFFIC CABLE
- H. REMOVE SERVICE CABLE
- I. ABANDON CONDUIT FROM MANHOLE/HANDHOLE TO POLE OR CABINET
- J. REMOVE JUNCTION BOX - 5
- K. REMOVE TRAFFIC SIGNAL POST - 1



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 308
CHICAGO, ILLINOIS 60630 TEL: 773.774.590

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	DRAWN - AV, EA	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

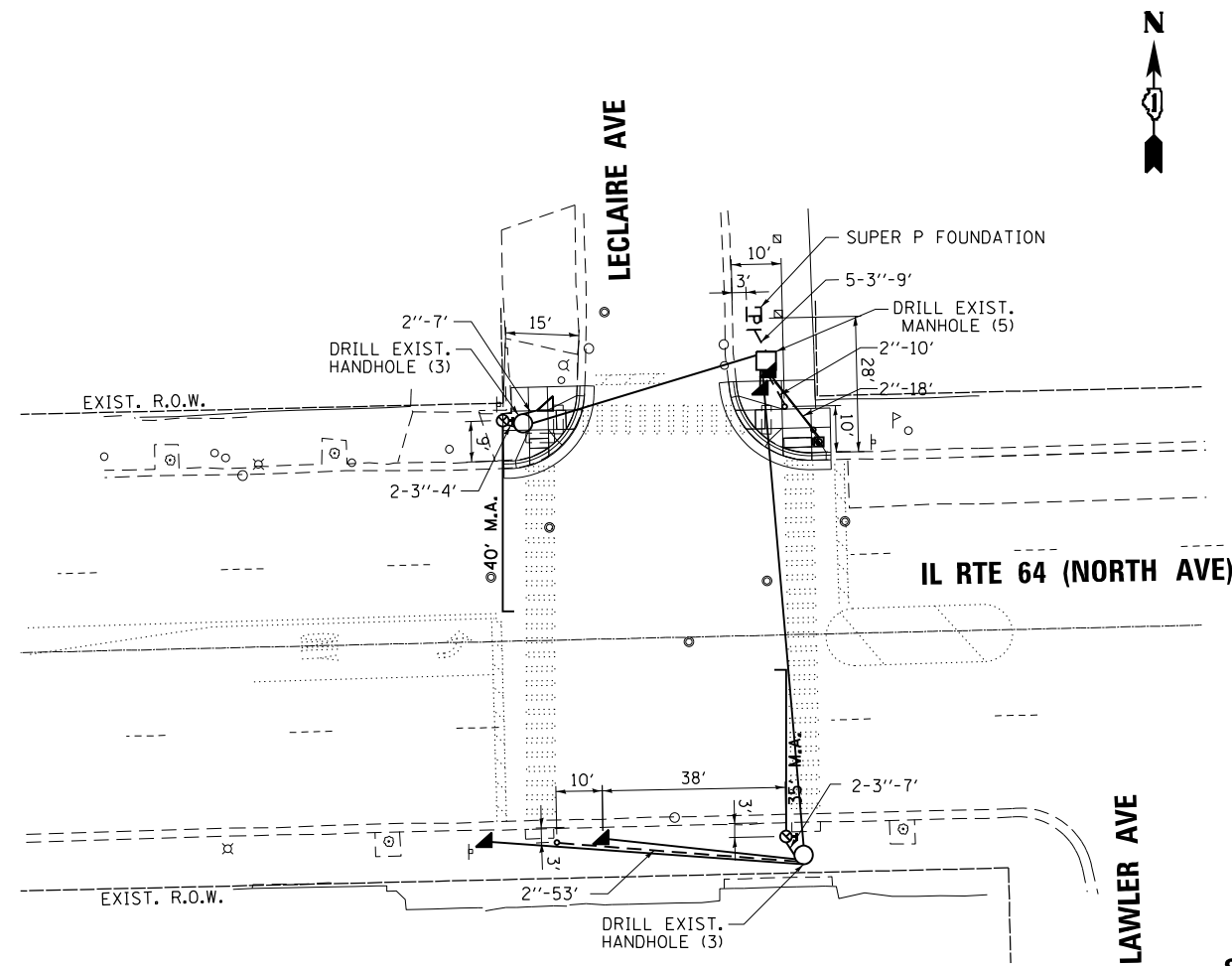
**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT LECLAIRE AVE /LAWLER AVE**

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

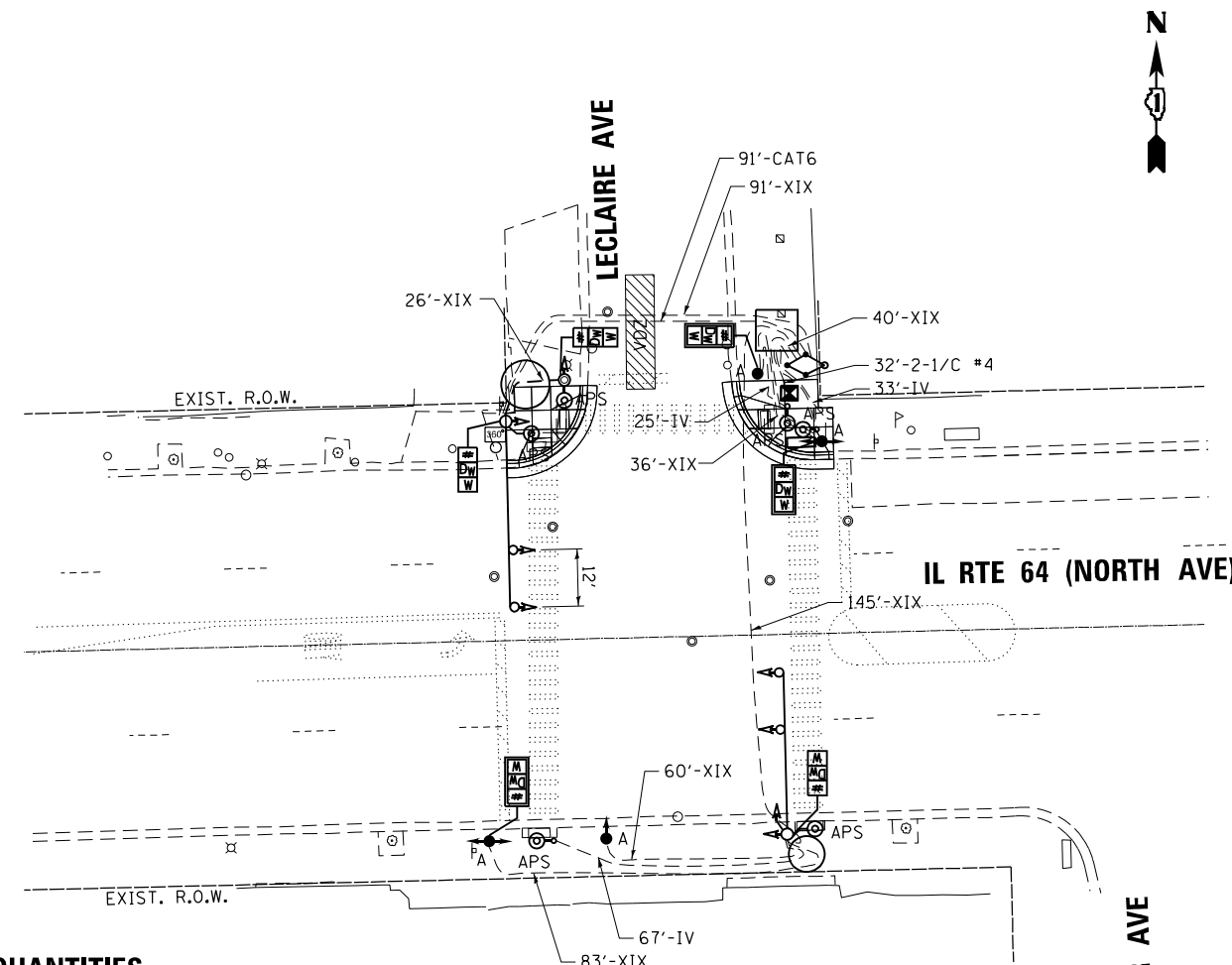
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	288
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT				

TS 13895

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FOUNDATION AND CONDUIT PLAN



SIGNAL AND CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
TRENCH AND BACKFILL WITH SCREENINGS (CDOT)	FOOT	77
DRILL EXISTING MANHOLE OR HANDHOLE (CDOT)	EACH	11
CLEAN EXISTING MANHOLE/HANDHOLE (CDOT)	EACH	3
CONDUIT IN TRENCH, 2" PVC (SCHEDULE 40) (CDOT)	FOOT	88
CONDUIT IN TRENCH, 3" PVC (SCHEDULE 40) (CDOT)	FOOT	67
ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM (CDOT)	FOOT	465
CONCRETE FOUNDATION, 20" DIAMETER, 3/4" ANCHOR RODS (CDOT)	EACH	1
CONCRETE FOUNDATION, 30" DIAMETER, 16 1/2" BOLT CIRCLE, 1 1/2" A.R. (CDOT)	EACH	2
POLE, STEEL, 34' 6", ANCHOR BASE, 10'D, 3 GAUGE (CDOT)	EACH	2
RACK, SECONDARY, AERIAL 2-WIRE (CDOT)	EACH	3
WIRE, AERIAL, 1/C NO. 6 (CDOT)	FOOT	706
ELECTRIC CABLE IN CONDUIT, 1/C NO. 4 (CDOT)	FOOT	64
SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, BRACKET MOUNTED (1-FACE) (CDOT)	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, MAST ARM MOUNTED (1-FACE) (CDOT)	EACH	4
COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL (BRACKET MOUNTED) (CDOT)	EACH	3
JUNCTION BOX, POLE OR POST MOUNTED (CAST ALUMINUM) (CDOT)	EACH	5
PEDESTRIAN PUSH BUTTON POST (5') (CDOT)	EACH	3
MAST ARM, TRAFFIC, STEEL MONOTUBE, 26 FOOT (CDOT)	EACH	2
MAST ARM, TRAFFIC, STEEL MONOTUBE, 35 FOOT (CDOT)	EACH	1
MAST ARM, TRAFFIC, STEEL MONOTUBE, 40 FOOT (CDOT)	EACH	1
ELECTRIC CABLE IN CONDUIT, #18 4/C (CDOT)	FOOT	125
ELECTRIC CABLE IN CONDUIT, #14 19/C (CDOT)	FOOT	481
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (CDOT)	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (CDOT)	EACH	1
REMOVE JUNCTION BOX, TSS 18 (CDOT)	EACH	5
INTERSECTION TECHNOLOGY ENHANCEMENTS (CDOT)	EACH	1
RELOCATE STREET NAME SIGN (CDOT)	EACH	2
CONCRETE FOUNDATION FOR BASE MOUNTED "SUPER P" CABINET (CDOT)	EACH	1
ATC CONTROLLER, TRAFFIC, 16 LOAD BAY, "SUPER P" CABINET, UPS (CDOT)	EACH	1
RELOCATE EXISTING STREET LUMINAIRE (CDOT)	EACH	2
MAST ARM, STEEL, STREET LIGHTING, 8 FOOT (CDOT)	EACH	2

TRAFFIC SIGNAL INSTALLATION NOTES

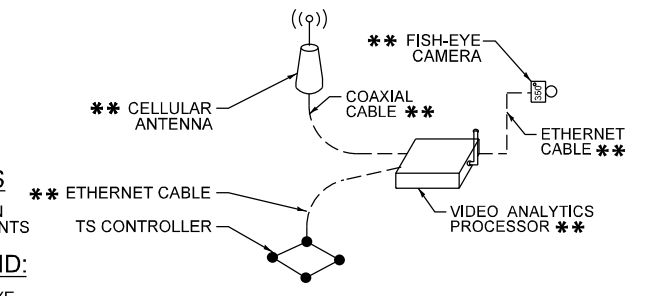
A. INSTALL NEW JUNCTION BOX

INSTALLATION NOTES

** PAID FOR AS INTERSECTION TECHNOLOGY ENHANCEMENTS

INSTALLATION LEGEND:

PROPOSED 360 DEG FISH-EYE VEHICLE DETECTION CAMERA **



GENERAL NOTES

- SEE STANDARD DRAWING 826 FOR CDOT TRAFFIC SIGNAL AND LIGHTING SYMBOLS.
- CLEAN ALL EXISTING HANDHOLES/MANHOLES.
- ROD AND CLEAN ALL EXISTING CONDUITS.
- TEMPORARILY CONNECT ALL SIGNALS WITH AERIAL HARNES CABLE (8C#16) DURING REMOVAL OF EXISTING CABLE AND INSTALLATION OF NEW CABLE.
- TRAFFIC SIGNAL HEADS MOUNTED ON MAST ARMS SHALL BE A MINIMUM OF 15 FEET ABOVE THE TRAVELED ROADWAY WHEN MEASURED TO THE BOTTOM OF THE SIGNAL HOUSING.
- THE LOCATION OF THE 360 DEGREE VIDEO DETECTION CAMERA SHALL BE CONFIRMED BY CDOT DEO.
- INSTALL NEW JUNCTION BOXES ON ALL EXISTING TRAFFIC SIGNAL POLES AND POSTS.
- CONTRACTOR TO INSTALL R10-3 SIGNS FOR ALL ACCESSIBLE PEDESTRIAN SIGNALS WITH ARROW POINTED TOWARDS CROSSWALK.
- ANY JUNCTION BOX IN CONFLICT WITH THE PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL OR SIGN SHALL BE RELOCATED ON THE POLE. THIS WORK SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL INSTALLATION.
- CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMP MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - AV, EA	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 3/22/2024	REVISED -

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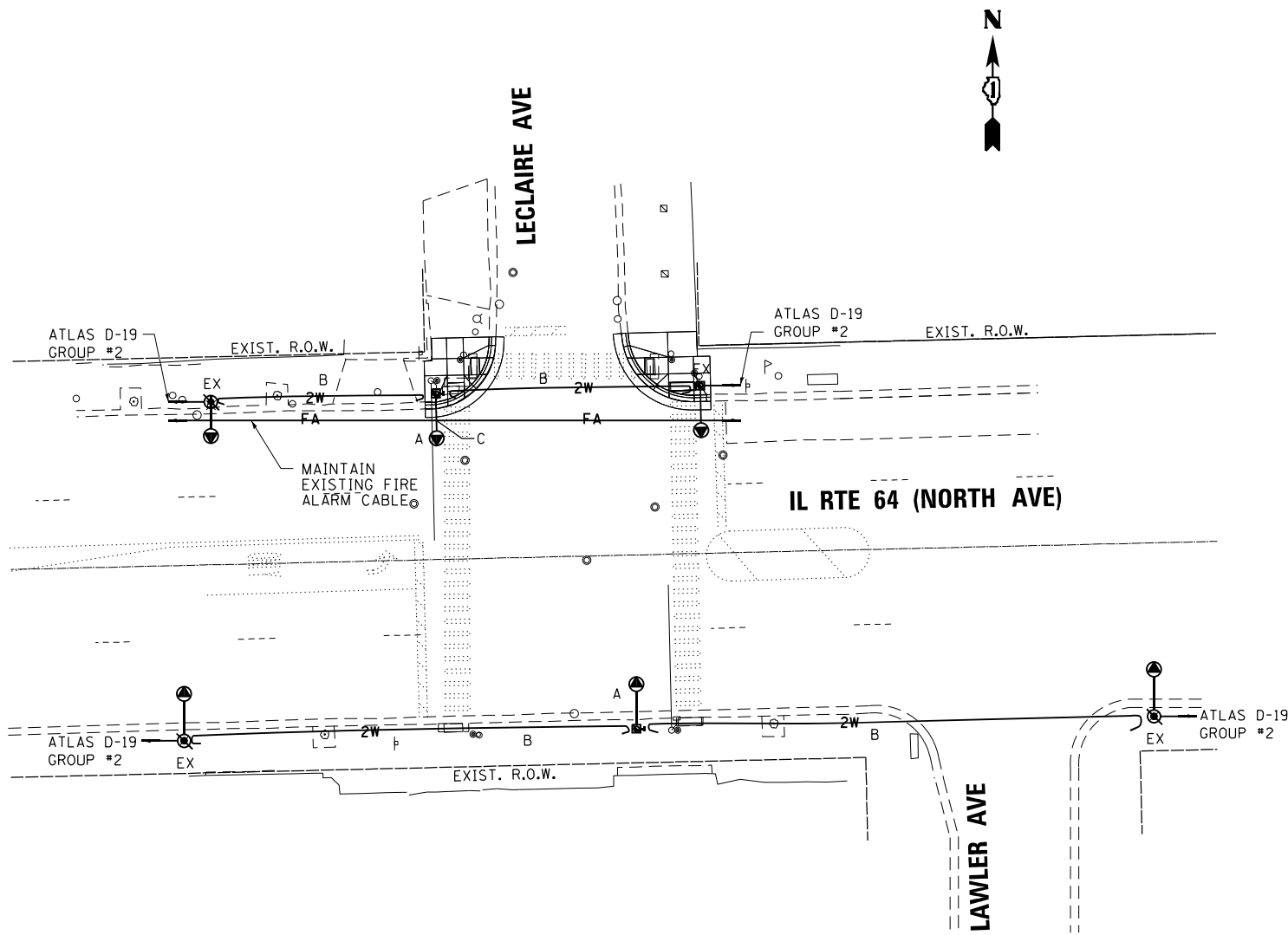
TRAFFIC SIGNAL MODERNIZATION PLAN AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE) AT LECLAIRE AVE /LAWLER AVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	289
CONTRACT NO. 62N40			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

TS 13895

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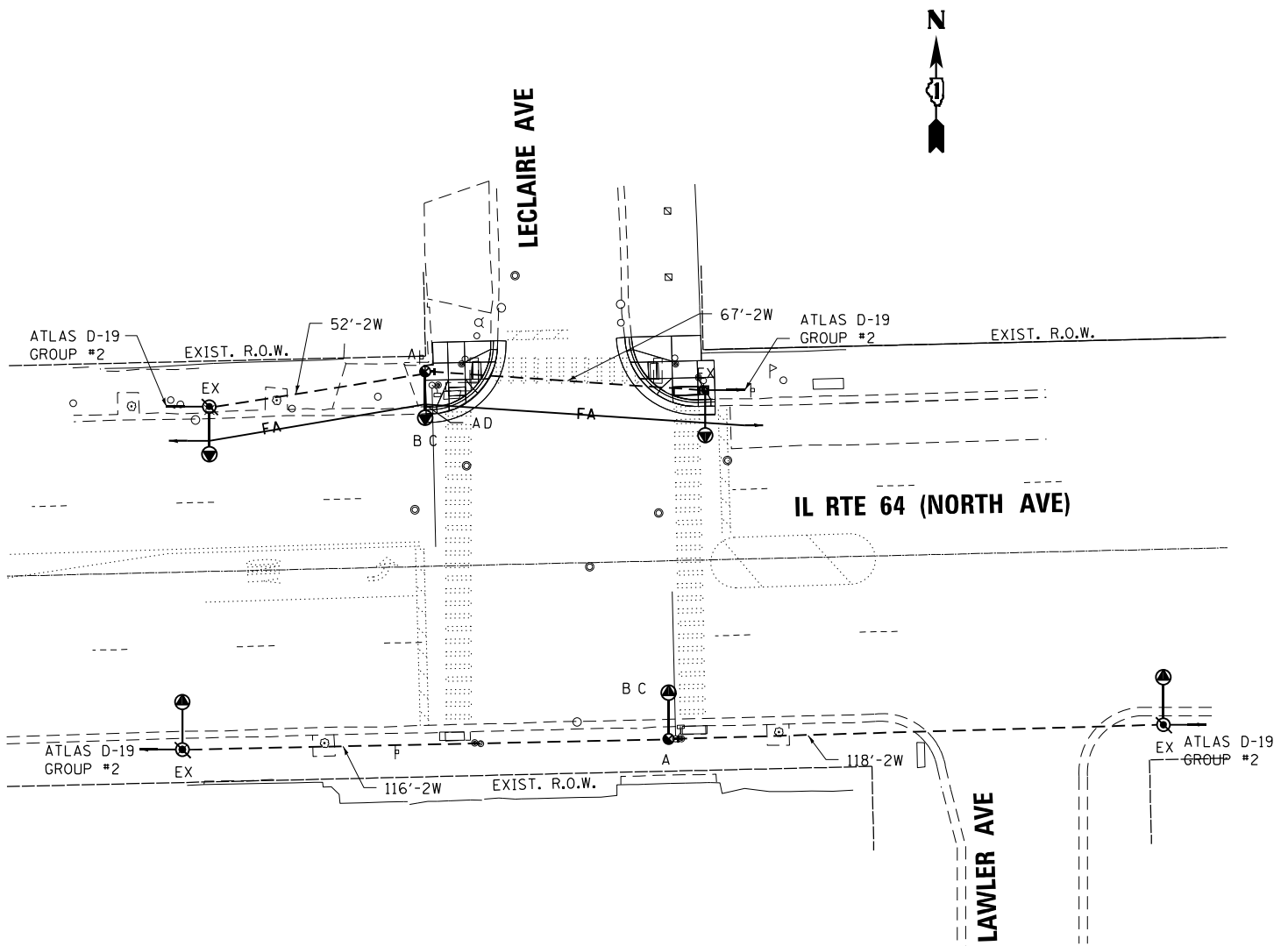


STREET LIGHT REMOVAL PLAN

- A. REMOVE LUMINAIRE AND 8' M.A.
- B. REMOVE AERIAL WIRE
- C. CONTRACTOR SHALL TEMPORARILY UNATTACH THE FIRE ALARM CABLE FROM THE POLE, THIS CABLE IS TO BE REATTACHED TO NEW POLE AFTER PROPOSED POLE IS INSTALLED. THE CONTRACTOR SHALL NOT CUT OR DISCONNECT THE FIRE ALARM CABLE AT ANY TIME.

LEGEND

- FA- EXISTING AERIAL FIRE ALARM
- 2W- EXISTING 2 1/C #6 AERIAL WIRE
- 2W- INSTALL 2 1/C #6 AERIAL WIRE
- EX EXISTING



STREET LIGHT INSTALLATION PLAN

- A. INSTALL 2-WIRE RACK W/CLAMPS
- B. INSTALL NEW 8' ARMS
- C. TRANSFER LUMINAIRE TO NEW POLE
- D. CONTRACTOR SHALL REATTACH THE FIRE ALARM CABLE TO THE NEW POLE.



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
	DRAWN - AV, EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

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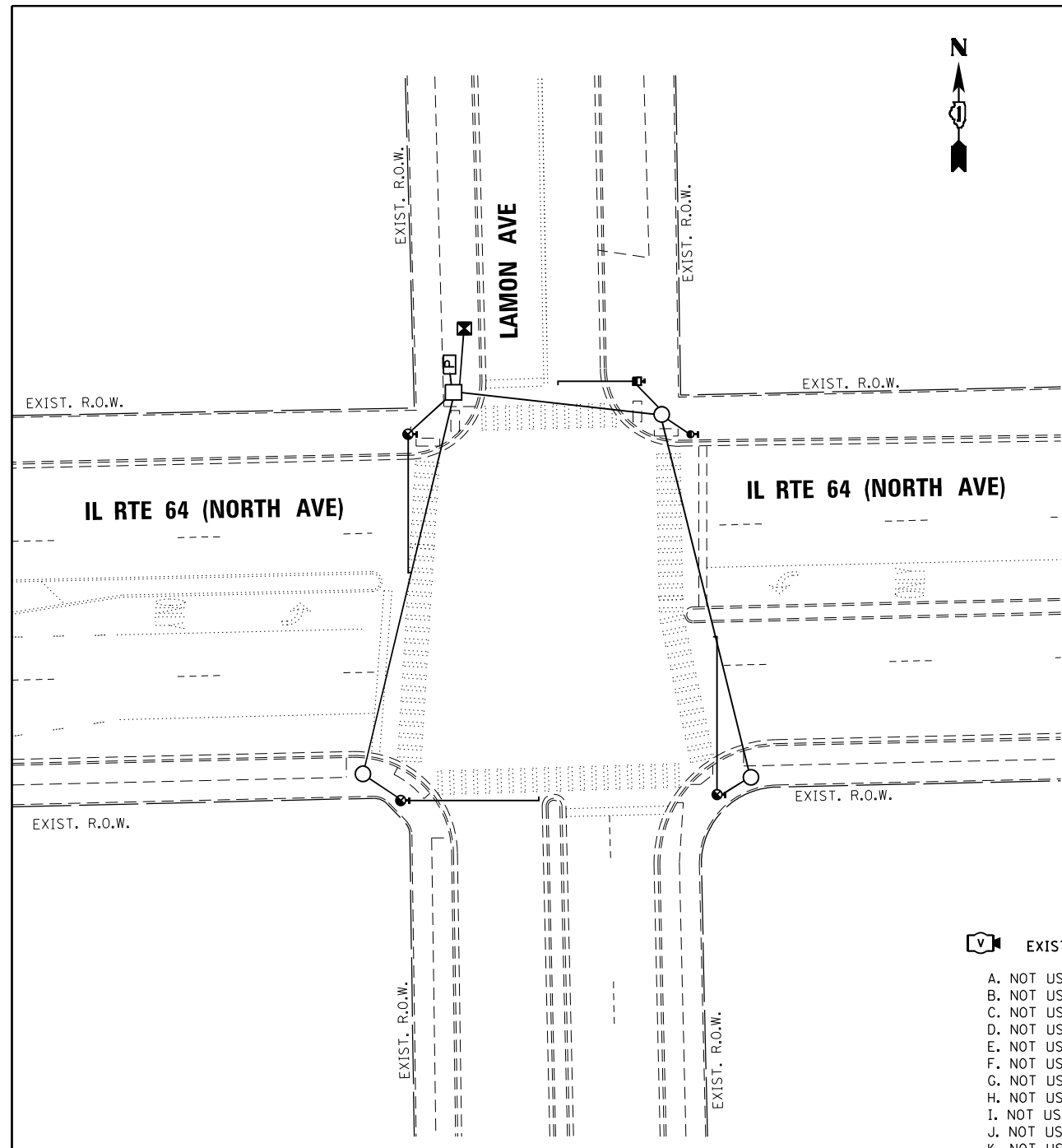
LIGHTING MODIFICATION PLAN
IL RTE 64 (NORTH AVE) AT LECLAIRE AVE /LAWLER AVE

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

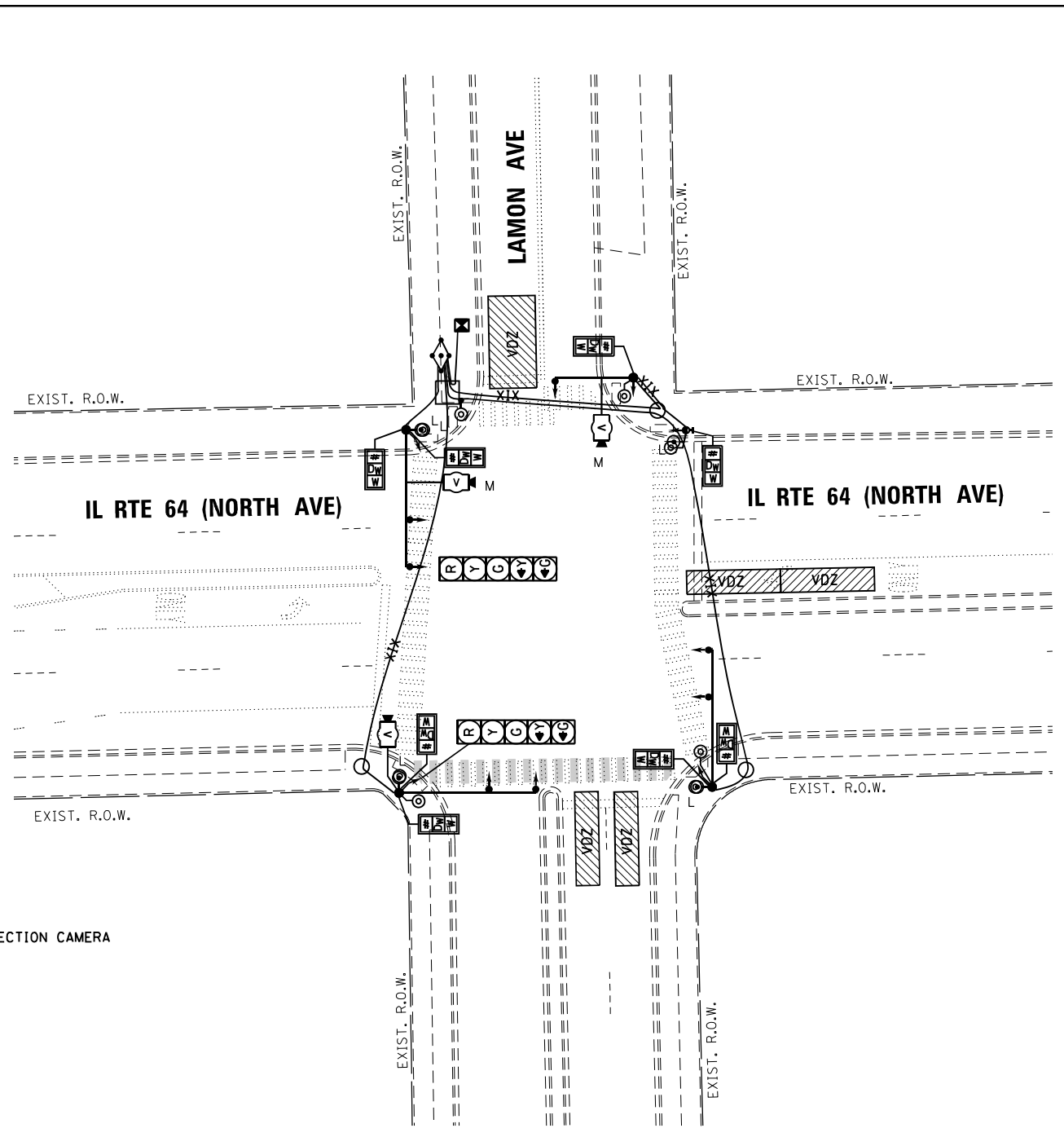
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	290
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 13895

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EXISTING FOUNDATION AND CONDUIT PLAN



SIGNAL AND CABLE REMOVAL PLAN



LEGEND

-  EXISTING VIDEO DETECTION CAMERA
- A. NOT USED
- B. NOT USED
- C. NOT USED
- D. NOT USED
- E. NOT USED
- F. NOT USED
- G. NOT USED
- H. NOT USED
- I. NOT USED
- J. NOT USED
- K. NOT USED
- L. REMOVE PUSH BUTTON FROM EXISTING POLE
- M. REMOVE EXISTING VIDEO DETECTION CAMERA AND ASSOCIATED CABLE.



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
DRAWN - AV, EA	REVISIONS -	
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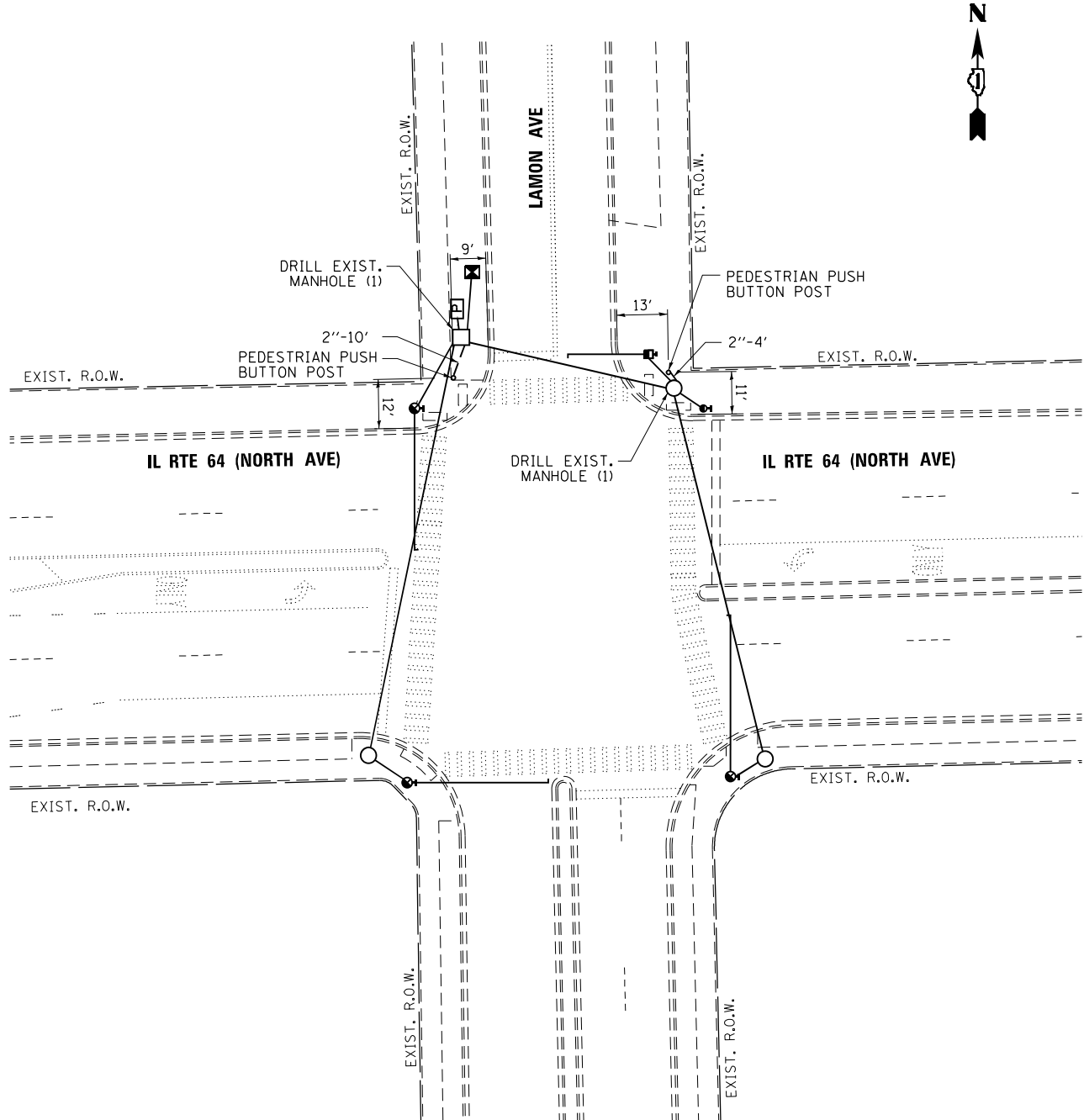
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE) AT LAMON AVE**

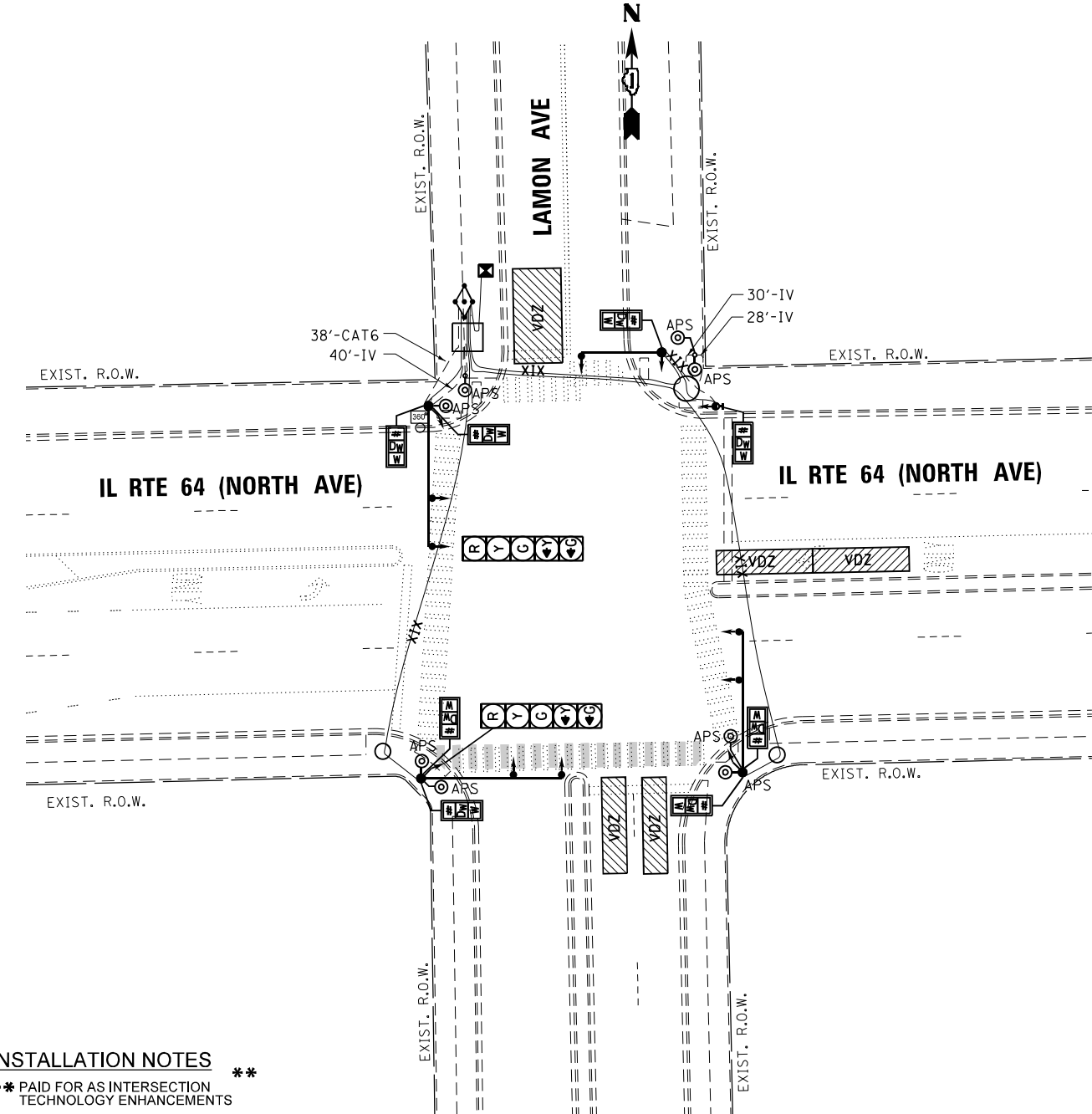
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	291
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

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FOUNDATION AND CONDUIT PLAN



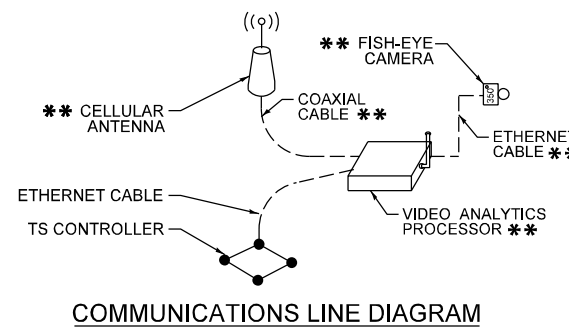
SIGNAL AND CABLE PLAN

INSTALLATION NOTES **
 ** PAID FOR AS INTERSECTION TECHNOLOGY ENHANCEMENTS
INSTALLATION LEGEND:

 ○ PROPOSED 360 DEG FISH-EYE VEHICLE DETECTION CAMERA **

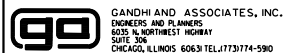
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TRENCH AND BACKFILL WITH SCREENINGS (CDOT)	FOOT	14
DRILL EXISTING MANHOLE OR HANDHOLE (CDOT)	EACH	2
CONDUIT IN TRENCH, 2" PVC (SCHEDULE 40) (CDOT)	FOOT	14
PEDESTRIAN PUSH BUTTON POST (5') (CDOT)	EACH	2
ELECTRIC CABLE IN CONDUIT, #18 4/C (CDOT)	FOOT	98
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (CDOT)	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (CDOT)	EACH	1
INTERSECTION TECHNOLOGY ENHANCEMENTS (CDOT)	EACH	1



GENERAL NOTES

1. THE LOCATION OF THE 360 DEGREE VIDEO DETECTION CAMERA SHALL BE CONFIRMED BY CDOT DEO.
2. CONTRACTOR TO INSTALL R10-3 SIGNS FOR ALL ACCESSIBLE PEDESTRIAN SIGNALS WITH ARROW POINTED TOWARDS CROSSWALK.
3. ANY JUNCTION BOX IN CONFLICT WITH THE PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL OR SIGN SHALL BE RELOCATED ON THE POLE. THIS WORK SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL INSTALLATION.
4. ALL APS INSTALLED WITH LESS THAN 10 FEET SEPARATION BETWEEN THEM SHALL INCLUDE A VOICE MESSAGE.
5. CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 200
 CHICAGO, ILLINOIS 60631 TEL: (773) 774-590

USER NAME = \$USER\$
 DESIGNED - AV, EA
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 PLOT SCALE = 48.0000' / in.
 CHECKED - MS
 DATE - 3/22/2024

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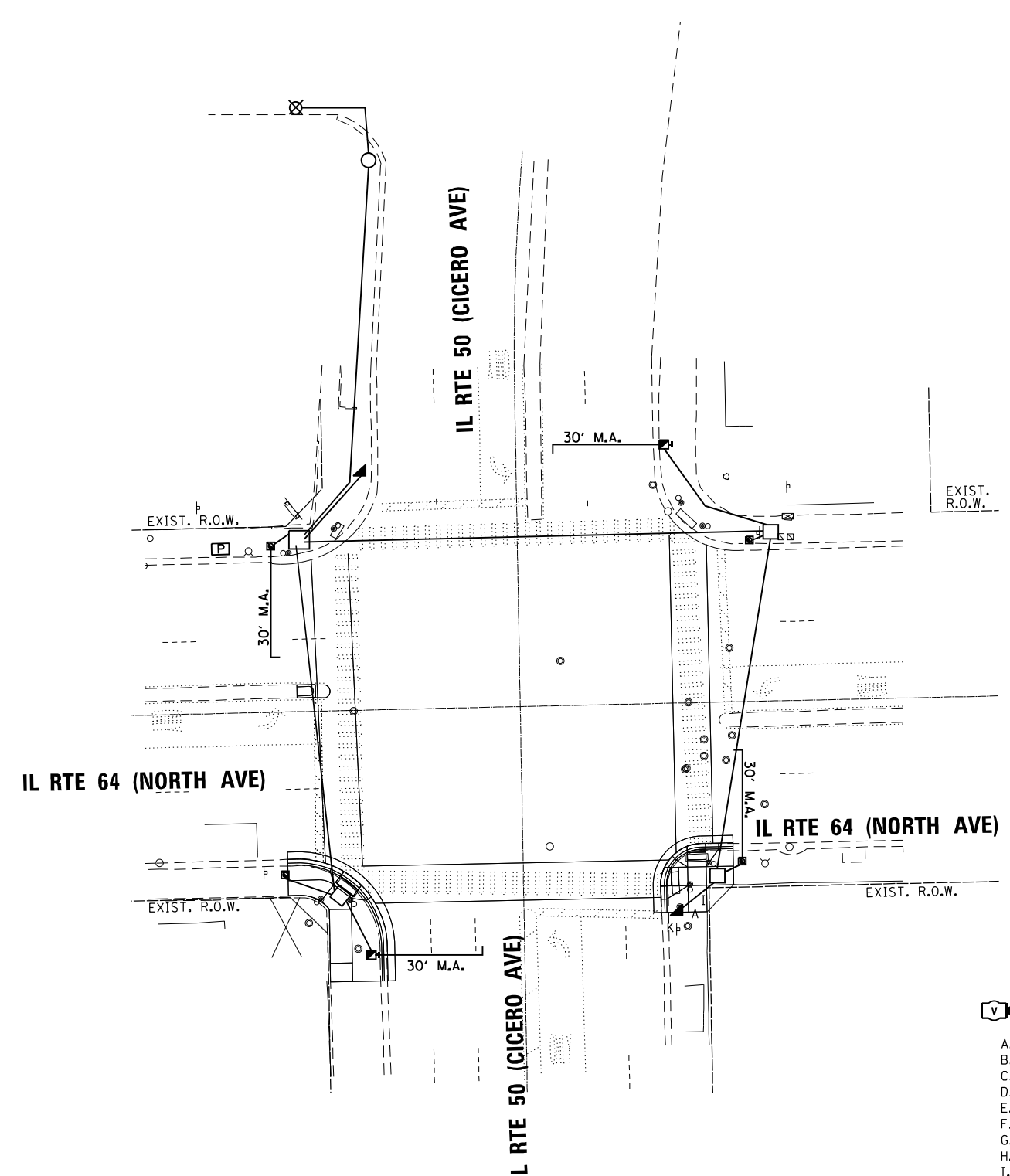
TRAFFIC SIGNAL MODERNIZATION PLAN
 AND SCHEDULE OF QUANTITIES
 IL RTE 64 (NORTH AVE) AT LAMON AVE

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

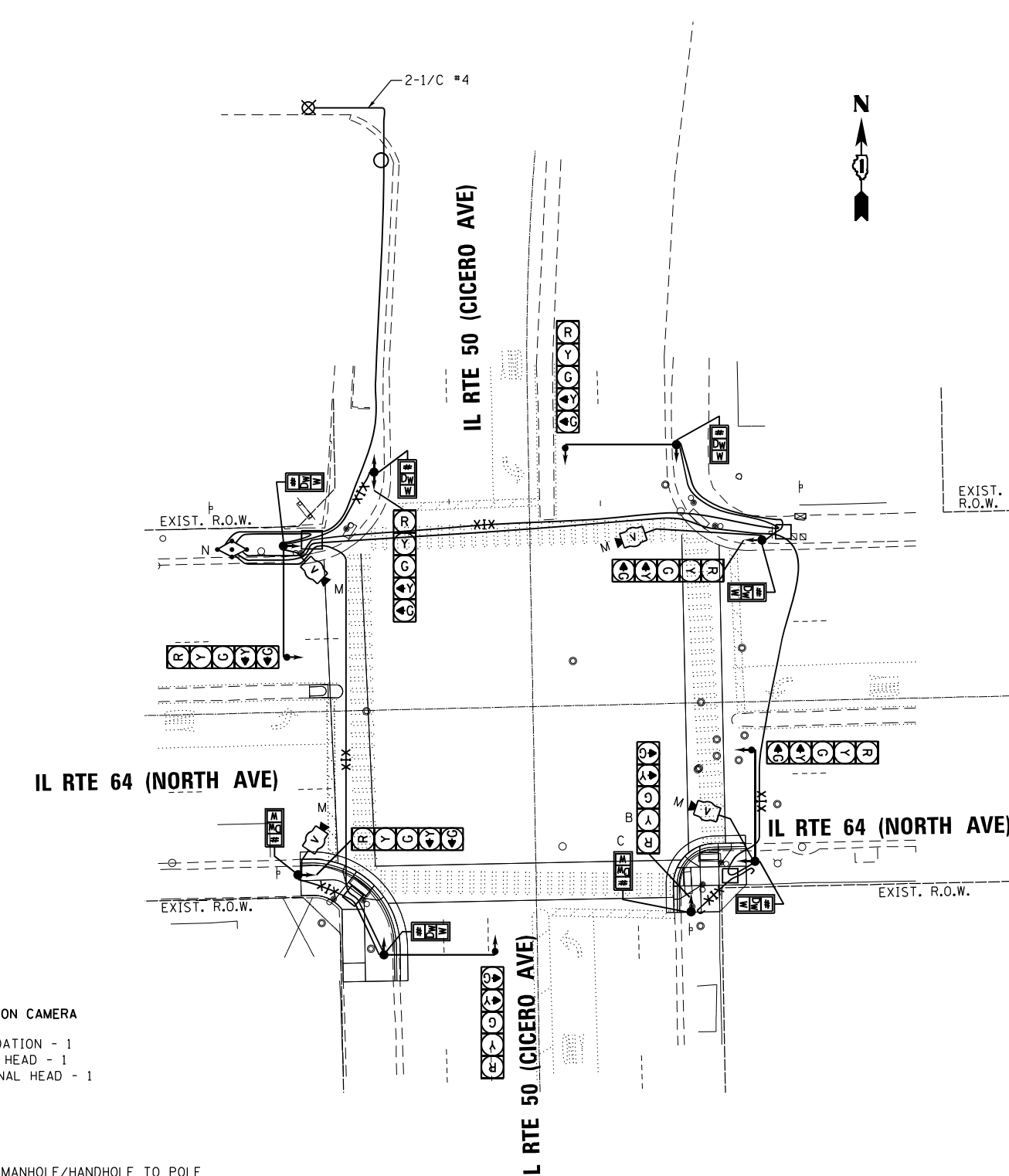
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	292

CONTRACT NO. 62N40
 FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

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FOUNDATION AND CONDUIT REMOVAL PLAN



SIGNAL AND CABLE REMOVAL PLAN

- LEGEND**
- EXISTING VIDEO DETECTION CAMERA
 - A. REMOVE CONCRETE FOUNDATION - 1
 - B. REMOVE TRAFFIC SIGNAL HEAD - 1
 - C. REMOVE PEDESTRIAN SIGNAL HEAD - 1
 - D. NOT USED
 - E. NOT USED
 - F. NOT USED
 - G. NOT USED
 - H. NOT USED
 - I. ABANDON CONDUIT FROM MANHOLE/HANDHOLE TO POLE OR CABINET
 - J. NOT USED
 - K. REMOVE TRAFFIC SIGNAL POST
 - L. NOT USED
 - M. REMOVE EXISTING VIDEO DETECTION CAMERA, MOUNTING HARDWARE, AND ASSOCIATED CABLE
 - N. REMOVE VIDEO PROCESSOR DETECTION EQUIPMENT



USER NAME = \$USER\$	DESIGNED - AV, EA	REVISED -
DRAWN - AV, EA	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 3/22/2024	REVISED -

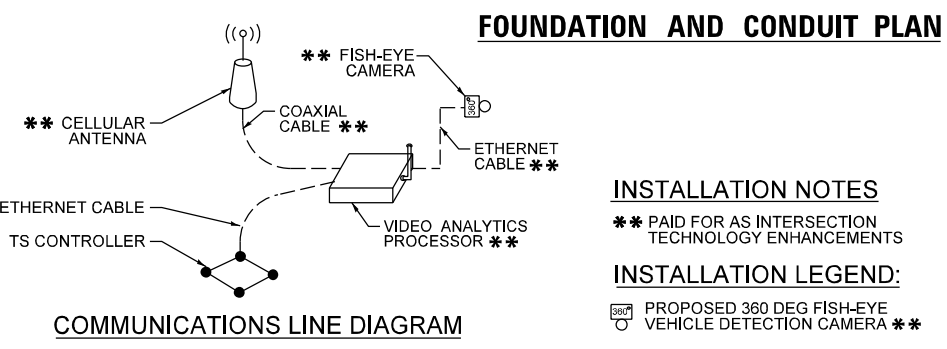
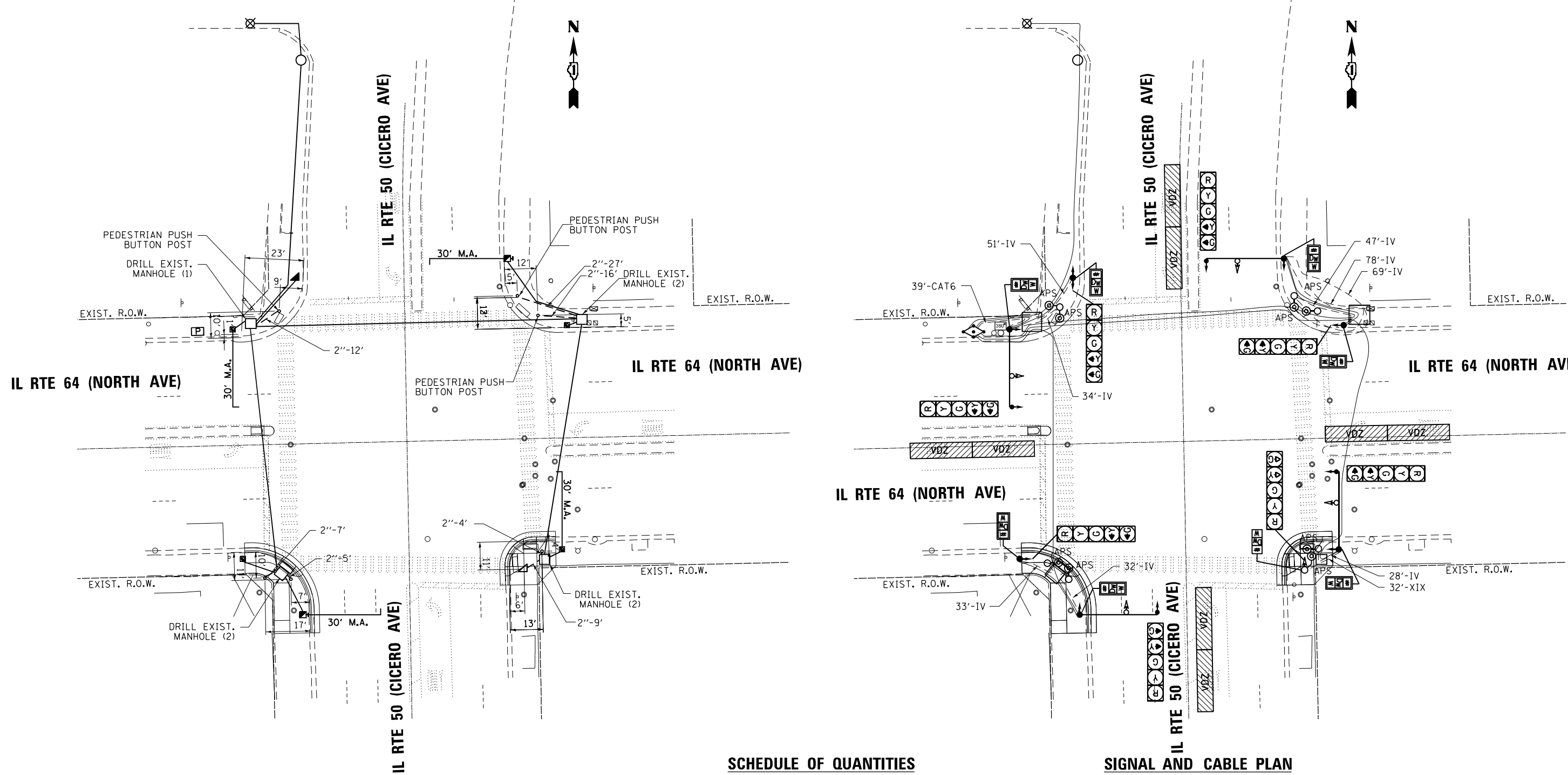
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL REMOVAL PLAN			
IL RTE 64 (NORTH AVE) AT IL RTE 50 (CICERO AVE)			
SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	293
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 12259

FILE NAME = P:\Vh-pw-bent\1gucmth-pw-01\Documents\01 Active Projects\112 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\1108121-Int-15-127.GALDDN



FOUNDATION AND CONDUIT PLAN

INSTALLATION NOTES

- ** FISH-EYE CAMERA
- ** CELLULAR ANTENNA
- ** ETHERNET CABLE
- ** COAXIAL CABLE
- ** ETHERNET CABLE
- VIDEO ANALYTICS PROCESSOR
- TS CONTROLLER

INSTALLATION LEGEND:

- 360° PROPOSED 360 DEG FISH-EYE VEHICLE DETECTION CAMERA **

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TRENCH AND BACKFILL WITH SCREENINGS (CDOT)	FOOT	63
DRILL EXISTING MANHOLE OR HANDHOLE (CDOT)	EACH	7
CONDUIT IN TRENCH, 2" PVC (SCHEDULE 40) (CDOT)	FOOT	79
CONCRETE FOUNDATION, 20" DIAMETER, 3/4" ANCHOR RODS (CDOT)	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 5-SECTION, BRACKET MOUNTED (1-FACE) (CDOT)	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, MAST ARM MOUNTED (1-FACE) (CDOT)	EACH	4
COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL (BRACKET MOUNTED) (CDOT)	EACH	1
PEDESTRIAN PUSH BUTTON POST (5') (CDOT)	EACH	6
TRAFFIC SIGNAL POST, ALUMINUM, 17 FOOT (CDOT)	EACH	1
ELECTRIC CABLE IN CONDUIT, #18 4/C (CDOT)	FOOT	371
ELECTRIC CABLE IN CONDUIT, #14 19/C (CDOT)	FOOT	32
INTERSECTION TECHNOLOGY ENHANCEMENTS (CDOT)	EACH	1

SIGNAL AND CABLE PLAN

GENERAL NOTES

- SEE STANDARD DRAWING 826 FOR CDOT TRAFFIC SIGNAL AND LIGHTING SYMBOLS.
- TRAFFIC SIGNAL HEADS MOUNTED ON MAST ARMS SHALL BE A MINIMUM OF 15 FEET ABOVE THE TRAVELED ROADWAY WHEN MEASURED TO THE BOTTOM OF THE SIGNAL HOUSING.
- THE LOCATION OF THE 360 DEGREE VIDEO DETECTION CAMERA SHALL BE CONFIRMED BY CDOT DEO.
- CONTRACTOR TO INSTALL R10-3 SIGNS FOR ALL ACCESSIBLE PEDESTRIAN SIGNALS WITH ARROW POINTED TOWARDS CROSSWALK.
- ANY JUNCTION BOX IN CONFLICT WITH THE PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL OR SIGN SHALL BE RELOCATED ON THE POLE. THIS WORK SHALL BE INCIDENTAL TO THE ACCESSIBLE PEDESTRIAN SIGNAL INSTALLATION.
- ALL APS INSTALLED WITH LESS THAN 10 FEET SEPARATION BETWEEN THEM SHALL INCLUDE A VOICE MESSAGE.
- CONTRACTOR SHALL VERIFY THAT THE PLACEMENT OF THE PROPOSED SIGNAL EQUIPMENT ADJACENT TO EXISTING RAMPS MEET ADA REQUIREMENTS. THE ENGINEER SHALL APPROVE THE PROPOSED LOCATIONS OF THE SIGNAL EQUIPMENT BEFORE INSTALLATION.

TS 12259



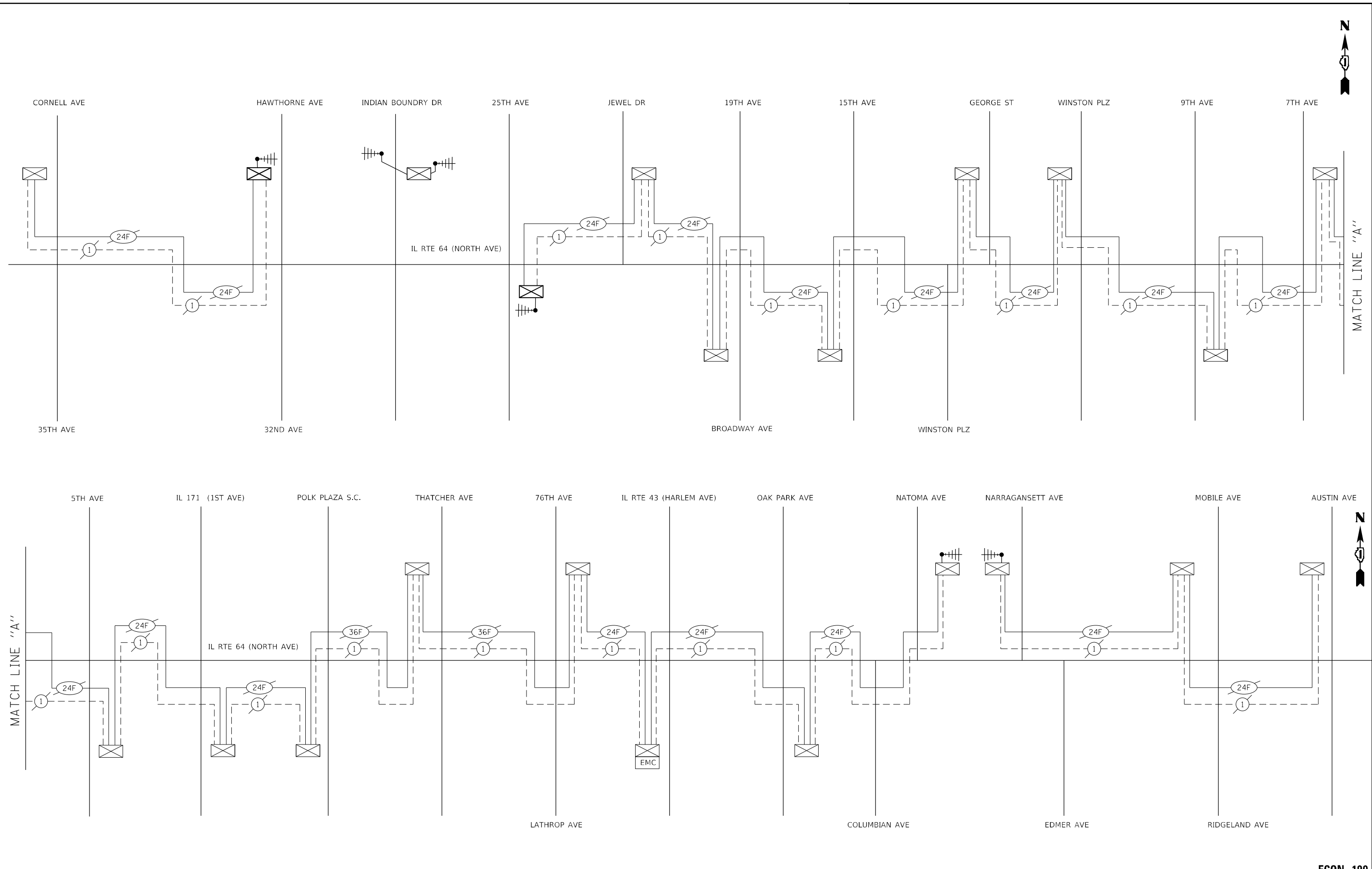
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN	
IL RTE 64 (NORTH AVE) AT IL RTE 50 (CICERO AVE)	
SCALE: 1"=20'	SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 294
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

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

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DATE - 3/22/2024	REVISED -	

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PLLOT DATE = \$DATE\$	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC
IL RTE 64 (NORTH AVE) FROM CORNELL AVE TO AUSTIN AVE**

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 295
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT				

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

ECON 100

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTIBLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I	 	 			
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP	 	 			
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR	 	 			
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	 	 			
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR	 	 			
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

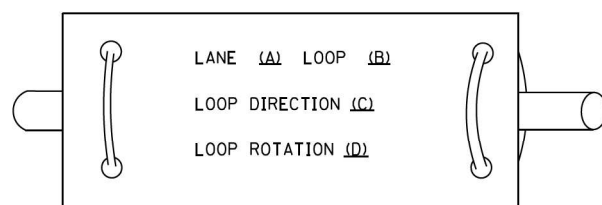
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STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
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F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 296
TS-05				CONTRACT NO. 62N40
ILLINOIS FED. AID PROJECT				

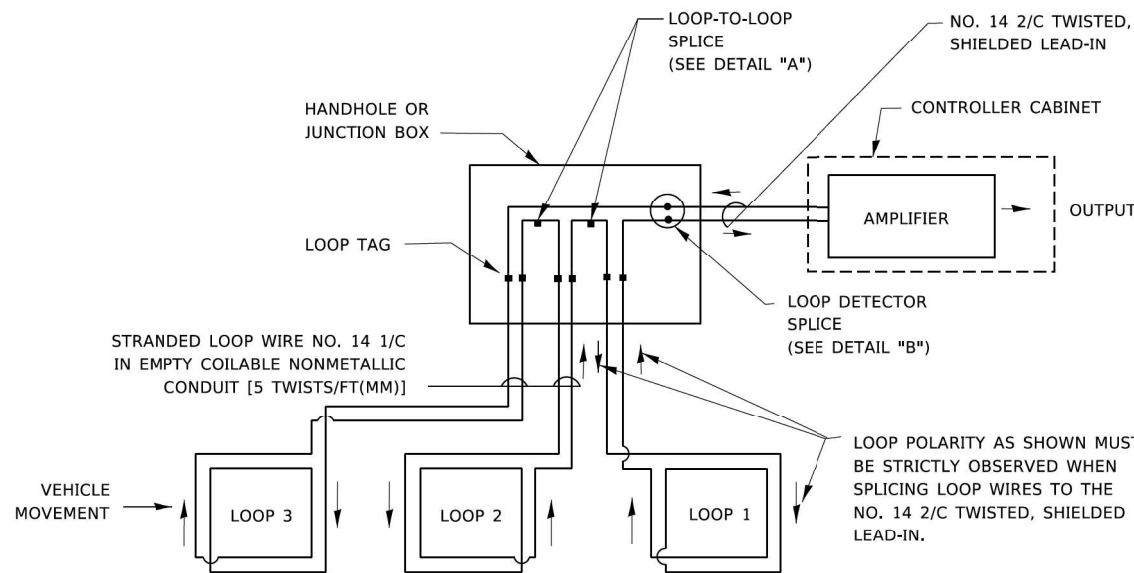
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

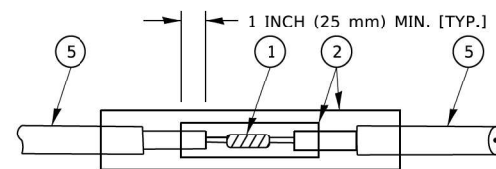


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

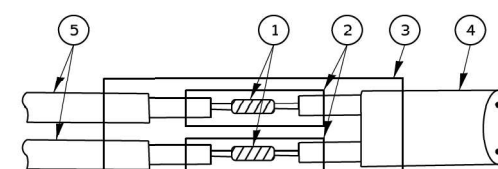


DETECTOR LOOP WIRING SCHEMATIC

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

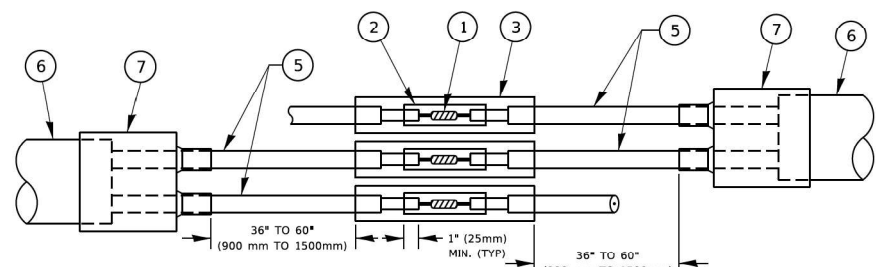


DETAIL "A"
LOOP-TO-LOOP SPLICE

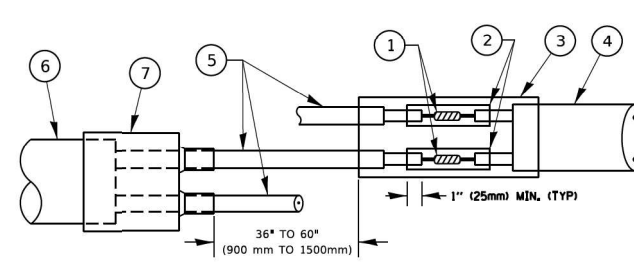


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

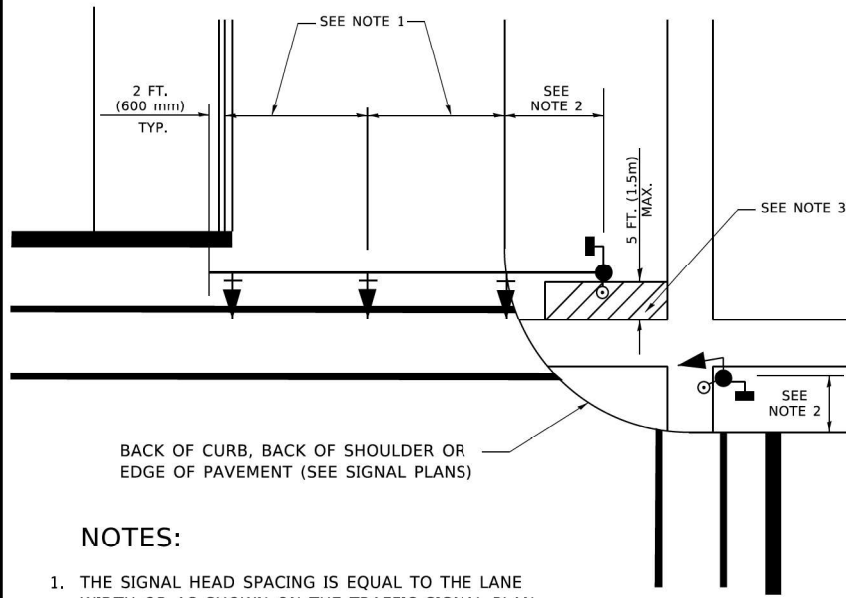
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 297
TS-05			CONTRACT NO. 62N40	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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

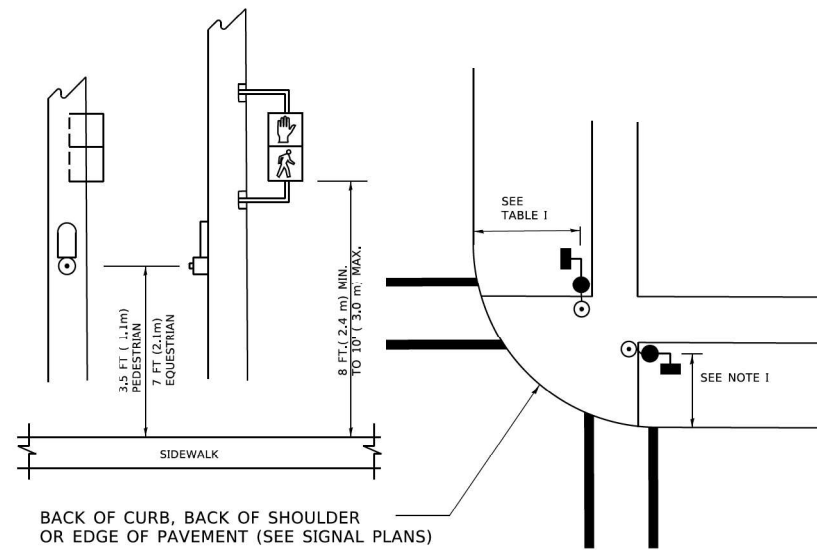


BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST

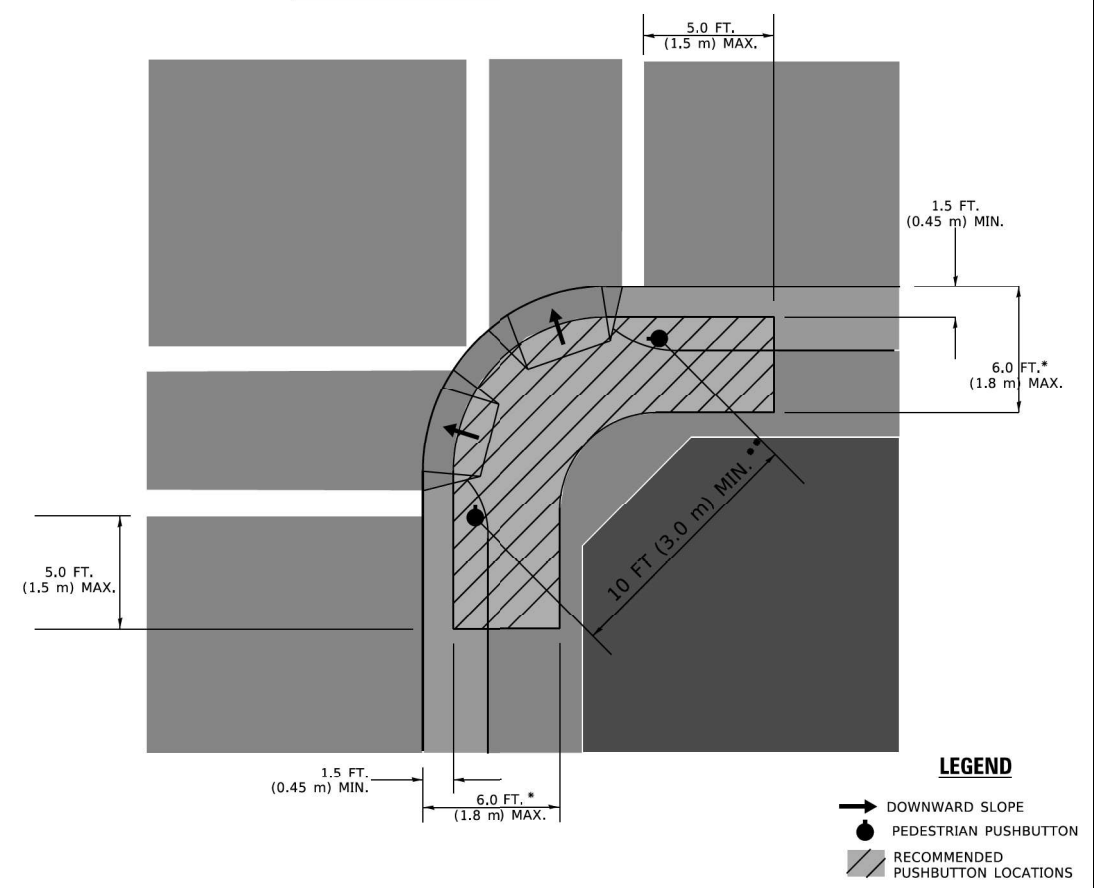


BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.3m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.3m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

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



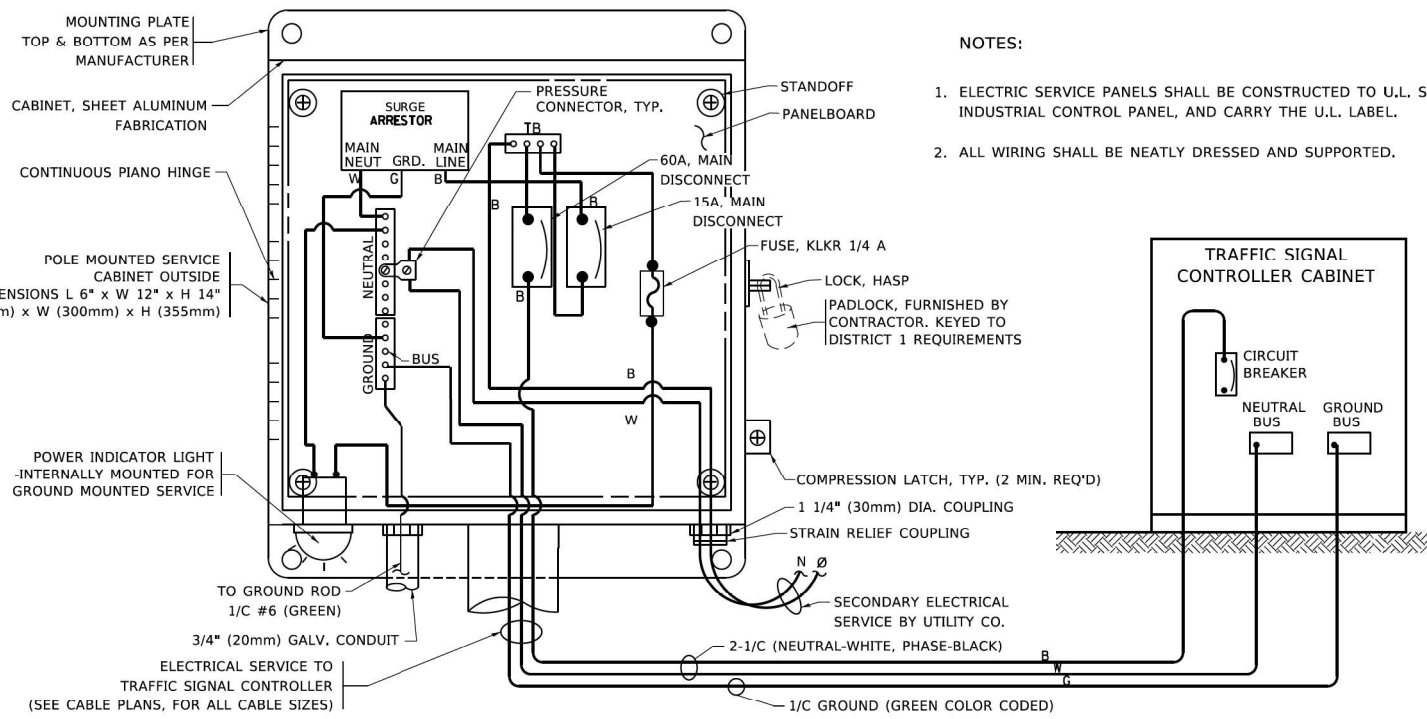
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

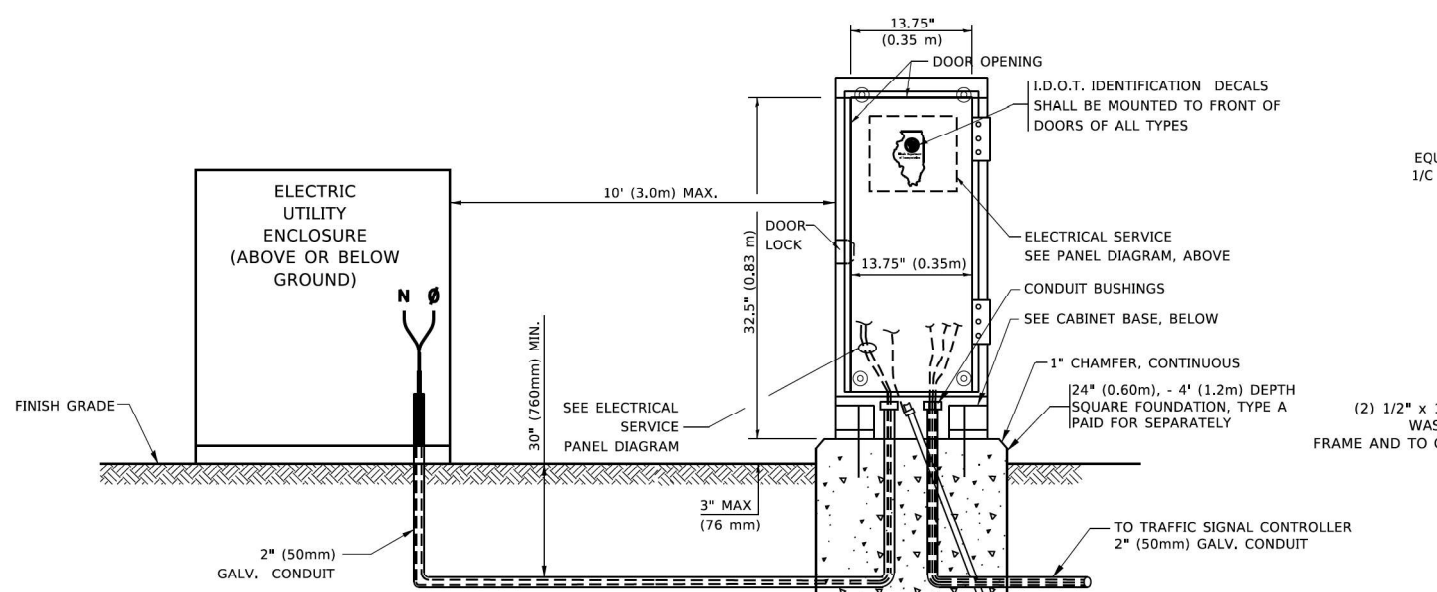
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 298
TS-05		CONTRACT NO. 62N40		
ILLINOIS FED. AID PROJECT				

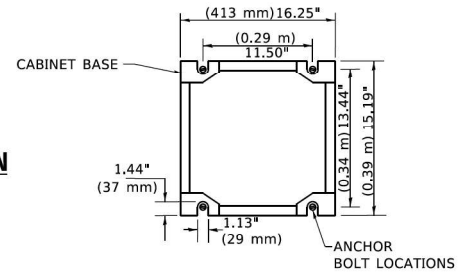


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)



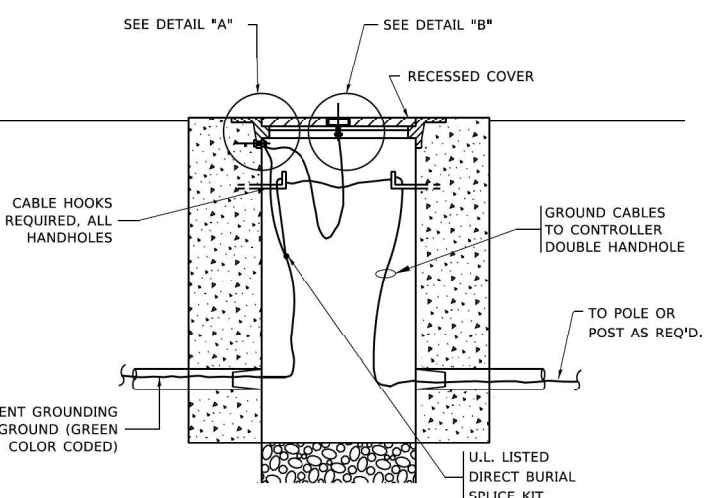
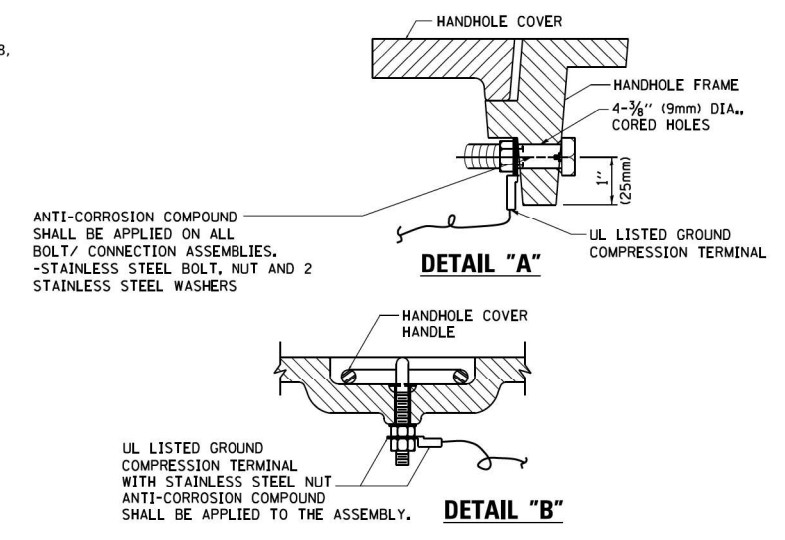
SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

CABINET - BASE BOLT PATTERN
(NOT TO SCALE)

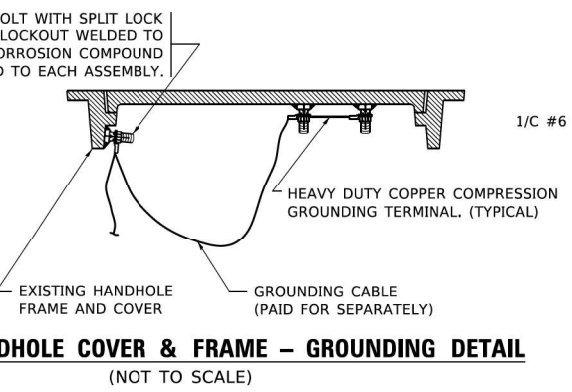


NOTES:

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



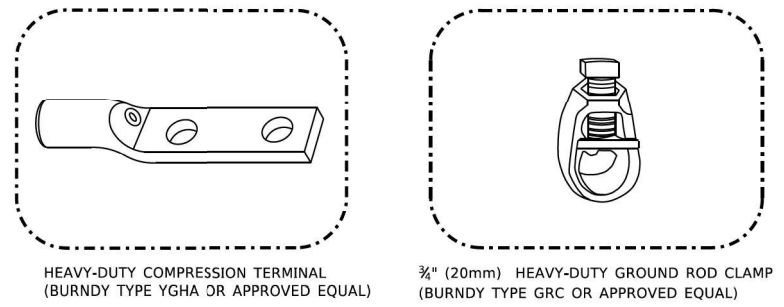
HANDHOLE COVER & FRAME - GROUNDING DETAIL
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EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)

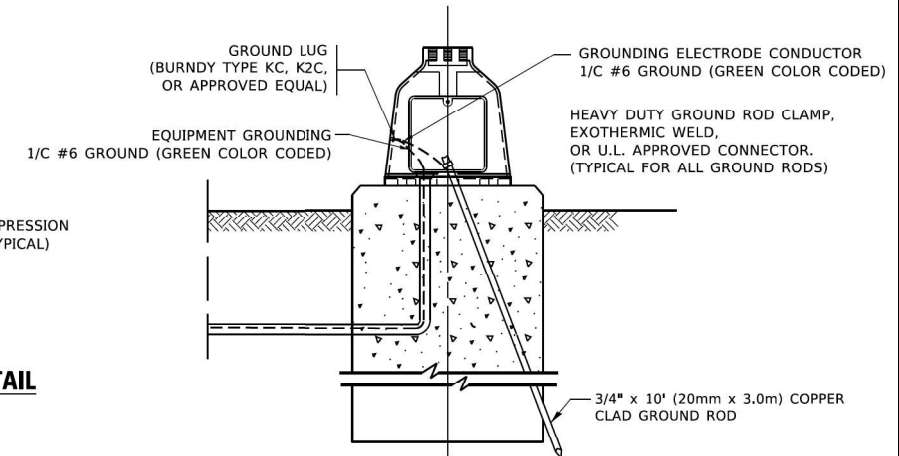
NOTES:
GROUNDING SYSTEM

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



NOTES:

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



MAST ARM POLE / POST-GROUNDING DETAIL
(NOT TO SCALE)



USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50,0000 1 / 11	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

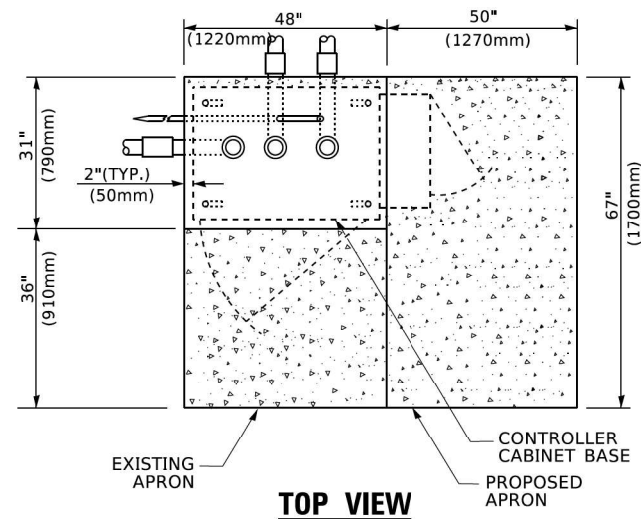
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

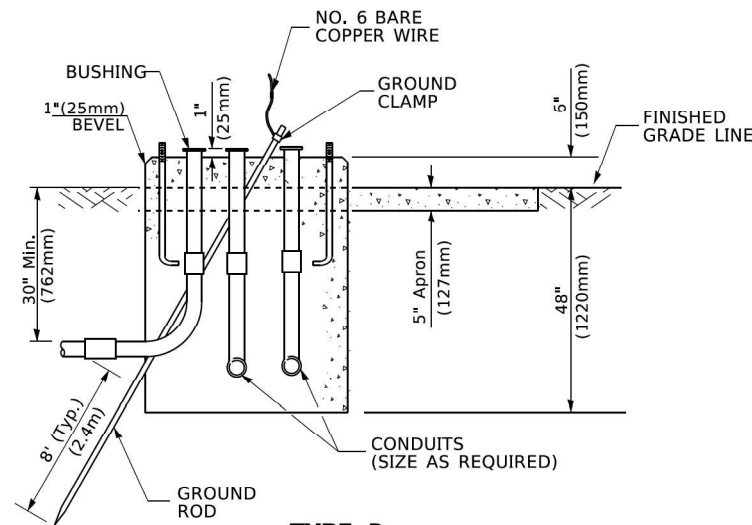
SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 299
TS-05			CONTRACT NO. 62N40	
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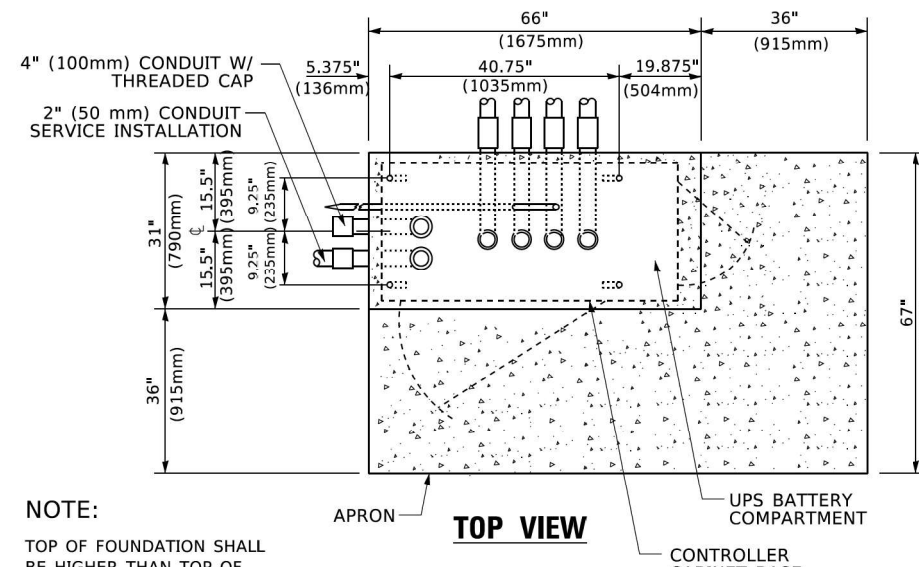
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TOP VIEW



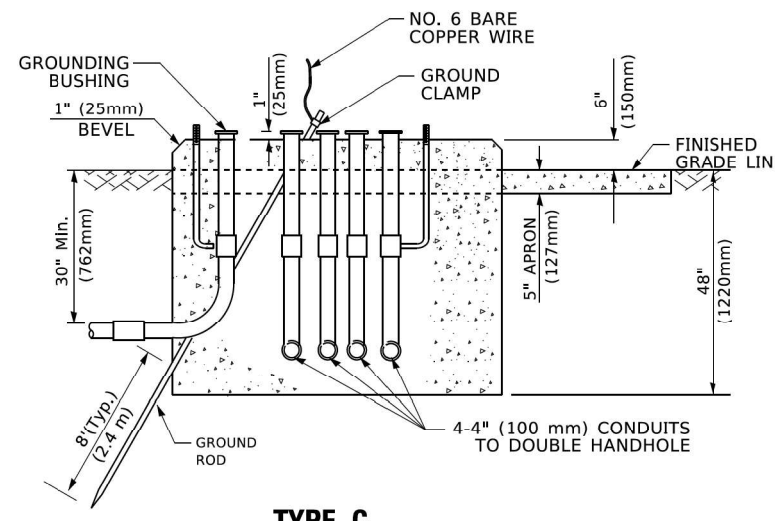
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



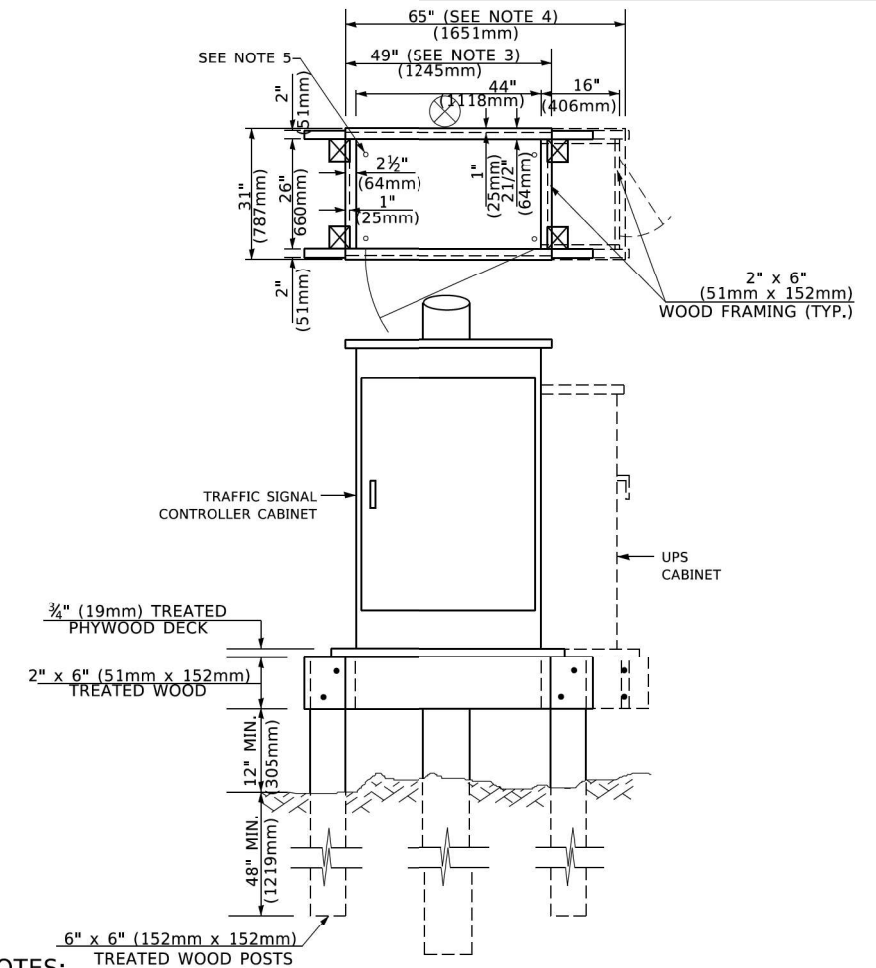
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E



USER NAME = footemj	DESIGNED -	REVISED -
PLOT SCALE = 50,0000' / 1"	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 300
TS-05			CONTRACT NO. 62N40	
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