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IL-630	STABILIZED CONSTRUCTION ENTRANCE PLAN
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
INDEX OF SHEETS, HIGHWAY STANDARDS, AND DISTRICT DETAILS**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	2
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△		81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44	44		
△		81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	<del>164</del> <sup>176</sup>	<del>164</del> <sup>176</sup>		
△		81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	114	114		
△		<del>81028350</del>	<del>UNDERGROUND CONDUIT, PVC, 2" DIA.</del>	FOOT	<del>12</del>	<del>12</del>		
△		81100420	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	110	110		
△		81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4	4		
△		81400100	HANDHOLE	EACH	3	3		
△		81400300	DOUBLE HANDHOLE	EACH	1	1		
△		81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1	1		
△		81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	<del>2,379</del> <sup>2,572</sup>	<del>2,379</del> <sup>2,572</sup>		
△		81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	724	724		
△		<del>81800400</del>	<del>AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE</del>	FOOT	<del>490</del>	<del>490</del>		
△		82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	<del>4</del> <sup>3</sup>	<del>4</del> <sup>3</sup>		
△		83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	<del>12</del> <sup>9</sup>	<del>12</del> <sup>9</sup>		
△		84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	<del>3</del> <sup>2</sup>	<del>3</del> <sup>2</sup>		

△ DENOTES SPECIALTY ITEM  
 \* INDICATES SPECIAL PROVISION

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
 SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 7 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	11
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△		84200804	REMOVAL OF POLE FOUNDATION	EACH	3	3		
△		85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	3		
△		85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	2	2		
△		85100901	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2	2		
△		87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4	4		
△		87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,546	1,546		
△		87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,590	1,590		
△		87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,546	1,546		
△		87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,590	1,590		
△		87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	737	737		
△		87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,203	1,203		
△		87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	350	350		
△		87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	447	447		
△		87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	2	2		

△ DENOTES SPECIALTY ITEM  
 \* INDICATES SPECIAL PROVISION

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 8 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	12
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
<del>△</del>	*	<del>X1400288</del>	<del>REMOVAL OF LIGHTING LUMINAIRE, SALVAGE</del>	<del>EACH</del>	<del>2</del>	<del>2</del>		
△	*	X1400340	AERIAL CABLE REMOVAL	FOOT	536	536		
△	*	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1	1		
△	*	X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1	1		
	*	X1700071	CLASS D PATCHES, TYPE II, 10 INCH (SPECIAL)	SQ YD	20	20		
△	*	X2010400	STUMP REMOVAL ONLY	UNIT	12	12		
△	*	X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.25	0.25		
	*	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	234	234		
△	*	X2600032	GATEWAY MONUMENT SIGN COMPLETE	EACH	4	4		
	*	X4400060	BRICK SIDEWALK REMOVAL	SQ FT	90	90		
	*	X5030290	STAINING CONCRETE STRUCTURES	SQ FT	8	8		
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
△	*	X8100863	INTERCEPT EXISTING CONDUIT	EACH	<del>4</del> 5	<del>4</del> 5		
△	*	X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1	1		
<del>△</del>	<del>*</del>	<del>X8300001</del>	<del>LIGHT POLE, SPECIAL</del>	<del>EACH</del>	<del>1</del>	<del>1</del>		

△ DENOTES SPECIALTY ITEM  
\* INDICATES SPECIAL PROVISION

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 12 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	16
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△	*	X0440102	RELOCATE EXISTING LUMINAIRE	EACH	2	2		
△	*	X8440120	REMOVE AND RE-ERECT EXISTING LIGHTING UNIT	EACH	1	1		
△	*	X8510204	PAINT NEW PEDESTRIAN PUSH BUTTON POST	EACH	1	1		
△	*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	8		
△	*	X8772115	TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	6	6		
	*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4	4		
	*	Z0004552	APPROACH SLAB REMOVAL	SQ YD	94	94		
	*	Z0007124	STEEL RAILING (SPECIAL)	FOOT	100		100	
	*	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	51	51		
	*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
	*	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1	1		
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103		
△	*	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4	4		
△	*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	5	5		
△	*	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1		
	*	Z0062456	TEMPORARY PAVEMENT	SQ YD	22	22		

△ DENOTES SPECIALTY ITEM  
\* INDICATES SPECIAL PROVISION

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 13 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	17
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△	*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	4		
	*	Z0075500	TIMBER RETAINING WALL	SQ FT	67	67		
	*	Z0075505	TIMBER RETAINING WALL REMOVAL	FOOT	20	20		
	*	Z0076600	TRAINEES	HOOR	500			500
	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	500			500
	*	Z0077900	WOOD POST AND RAIL FENCE	FOOT	200	200		
△	*	XX008396	CAMERA MOUNTING ASSEMBLY, SPECIAL	EACH	1	1		
	△*	XX009492	TEMPORARY LUMINAIRE LED, ROADWAY	EACH	6	6		



△ \* XX009492 TEMPORARY LUMINAIRE LED, ROADWAY EACH 6 6

△ DENOTES SPECIALTY ITEM  
 \* INDICATES SPECIAL PROVISION

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 14 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 18
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

**LEGEND:**

	EXISTING TWIN MAST ARM LIGHT POLE TO REMAIN
	REMOVE AND RE-ERECT EXISTING LIGHTING UNIT ON LIGHT POLE FOUNDATION, 24" DIAMETER.
	INSTALL LIGHT POLE, SPECIAL. REINSTALL EXISTING LUMINAIRES (PAID FOR AS RELOCATE EXISTING LUMINAIRE).
	EXISTING LIGHT POLE TO BE REMOVED. (PAID FOR AS REMOVAL OF LIGHTING UNIT, SALVAGE). REMOVAL OF POLE FOUNDATION
	EXISTING LIGHT POLE TO REMAIN (MELROSE PARK)
	EXISTING LIGHT POLE TO BE REMOVED. (PAID FOR AS REMOVAL OF LIGHTING UNIT, SALVAGE). REMOVAL OF POLE FOUNDATION. (MELROSE PARK)
	PROPOSED COMBINATION LIGHT POLE (SEE TRAFFIC SIGNAL PLANS)
	PROPOSED HANDHOLE
	PROPOSED HANDHOLE, COMPOSITE CONCRETE
	JUNCTION BOX, STAINLESS STEEL, EMBEDDED OR ATTACHED TO STRUCTURE, SIZED AS NOTED.
	TEMPORARY WOOD POLE. (SEE TRAFFIC SIGNAL PLANS.)
	PROPOSED GATEWAY MONUMENT SIGN COMPLETE. SEE LIGHTING DETAILS.
	EXISTING AERIAL CABLE
	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE
	EXISTING CONDUIT
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/4" DIA.
	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA. PVC COATED GALVANIZED STEEL

**NOTES:**

1. REMOVAL OF THE EXISTING LIGHTING SYSTEM SHALL NOT BEGIN BEFORE THE TEMPORARY OR PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
2. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE CONCRETE FOUNDATIONS HAVE CURED.

**SUMMARY OF QUANTITIES**

DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	114
CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	110
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4
HANDHOLE	EACH	2
HANDHOLE, COMPOSITE CONCRETE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,784
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	724
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	3
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	9
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	2
REMOVAL OF POLE FOUNDATION	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,414
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	5
LUMINAIRE, LED, SPECIAL	EACH	4
AERIAL CABLE REMOVAL	FOOT	536
GATEWAY MONUMENT SIGN COMPLETE	EACH	4
INTERCEPT EXISTING CONDUIT	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
REMOVE AND RE-ERECT EXISTING LIGHTING UNIT	EACH	1
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	6
TEMPORARY LUMINAIRE LED, ROADWAY	EACH	6

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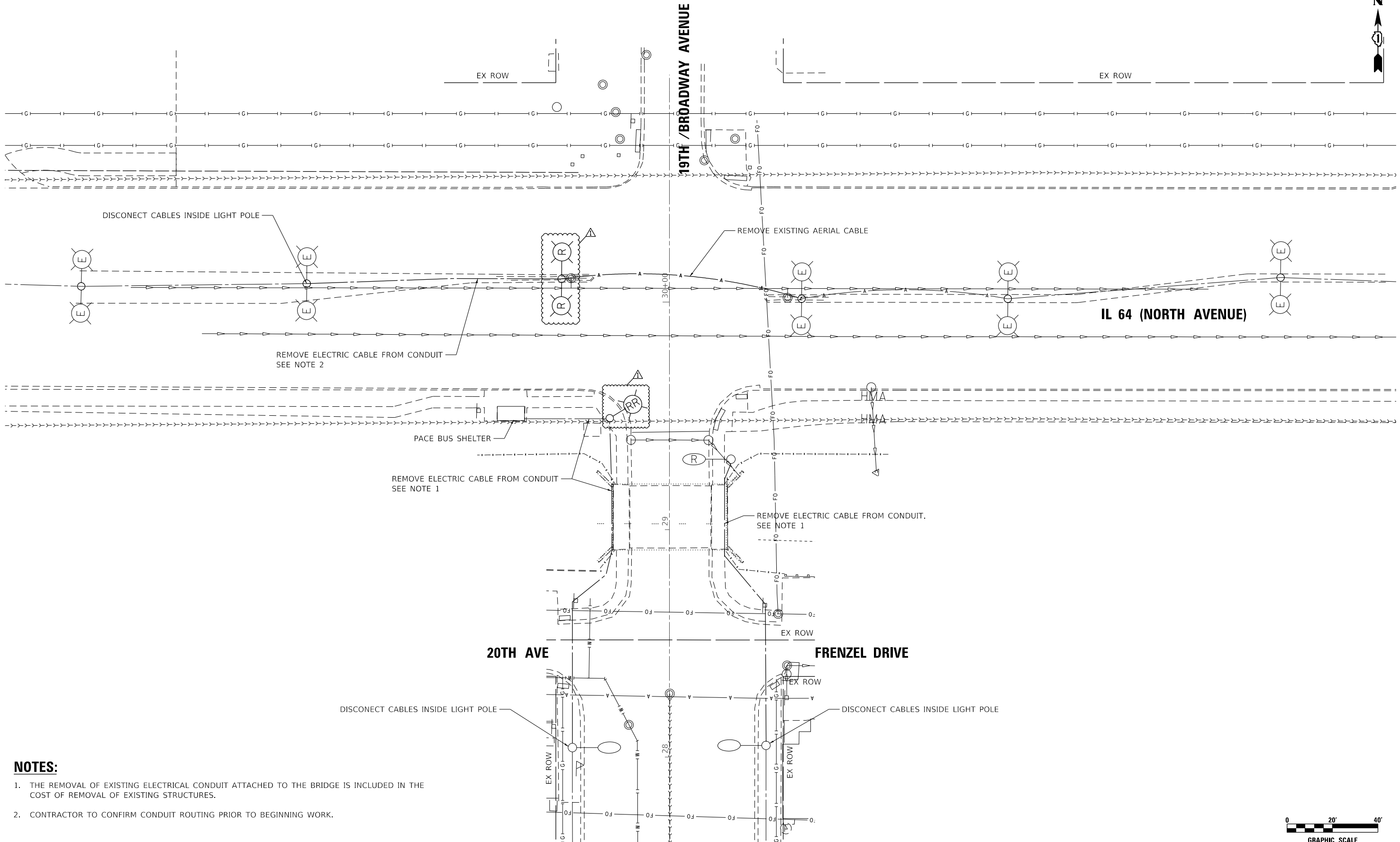
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
LIGHTING GENERAL NOTES, LEGEND AND SOQ**

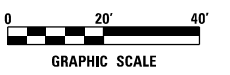
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	65
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. THE REMOVAL OF EXISTING ELECTRICAL CONDUIT ATTACHED TO THE BRIDGE IS INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.
2. CONTRACTOR TO CONFIRM CONDUIT ROUTING PRIOR TO BEGINNING WORK.



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	DRAWN - DTJ	REVISED -
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PLOT DATE = 4/6/2023	DATE - 1/16/2023	REVISED -

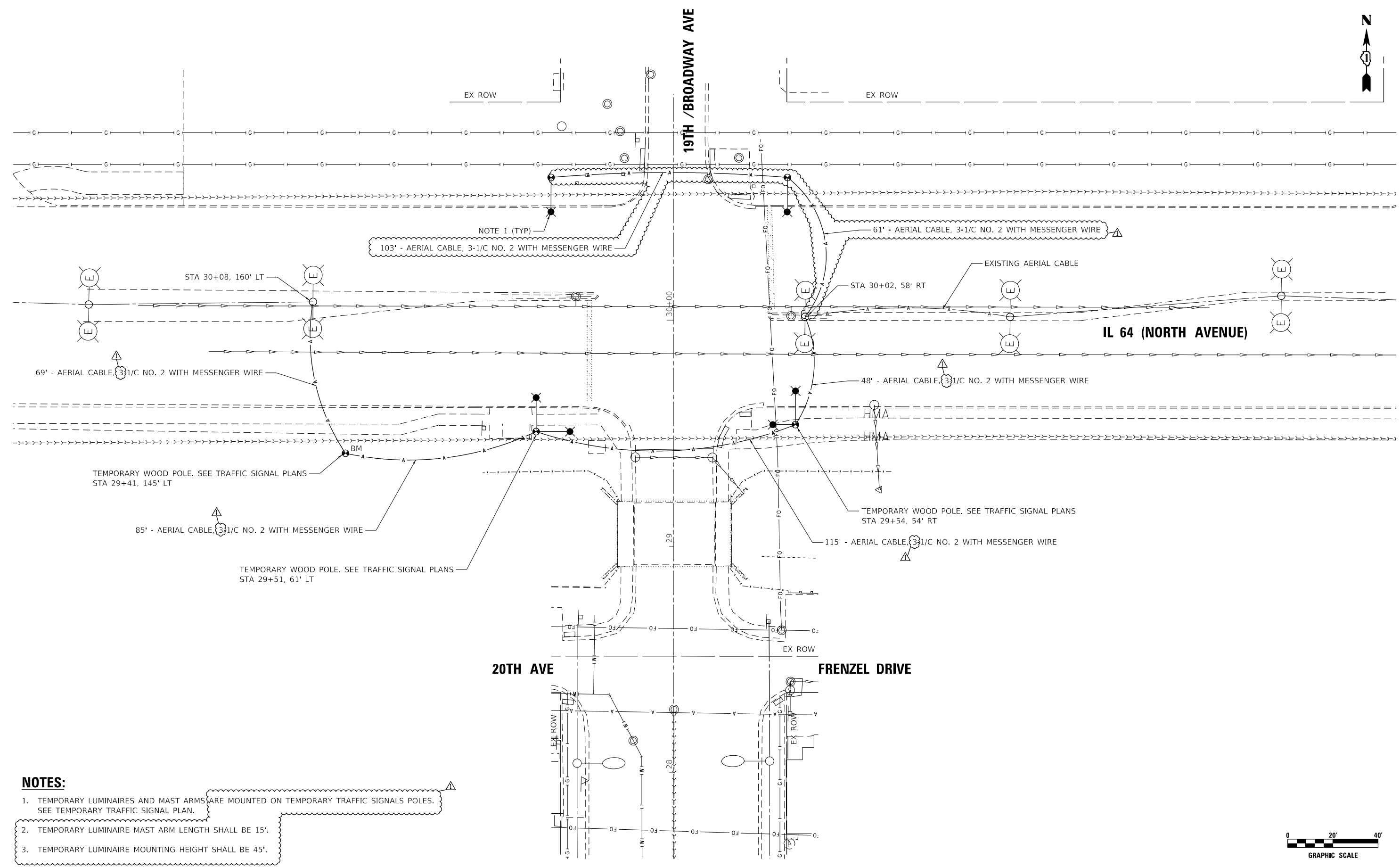
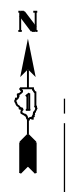
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
LIGHTING REMOVAL PLAN**

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

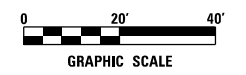
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	66
CONTRACT NO. 61J48				
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. TEMPORARY LUMINAIRES AND MAST ARMS ARE MOUNTED ON TEMPORARY TRAFFIC SIGNALS POLES. SEE TEMPORARY TRAFFIC SIGNAL PLAN.
2. TEMPORARY LUMINAIRE MAST ARM LENGTH SHALL BE 15'.
3. TEMPORARY LUMINAIRE MOUNTING HEIGHT SHALL BE 45'.



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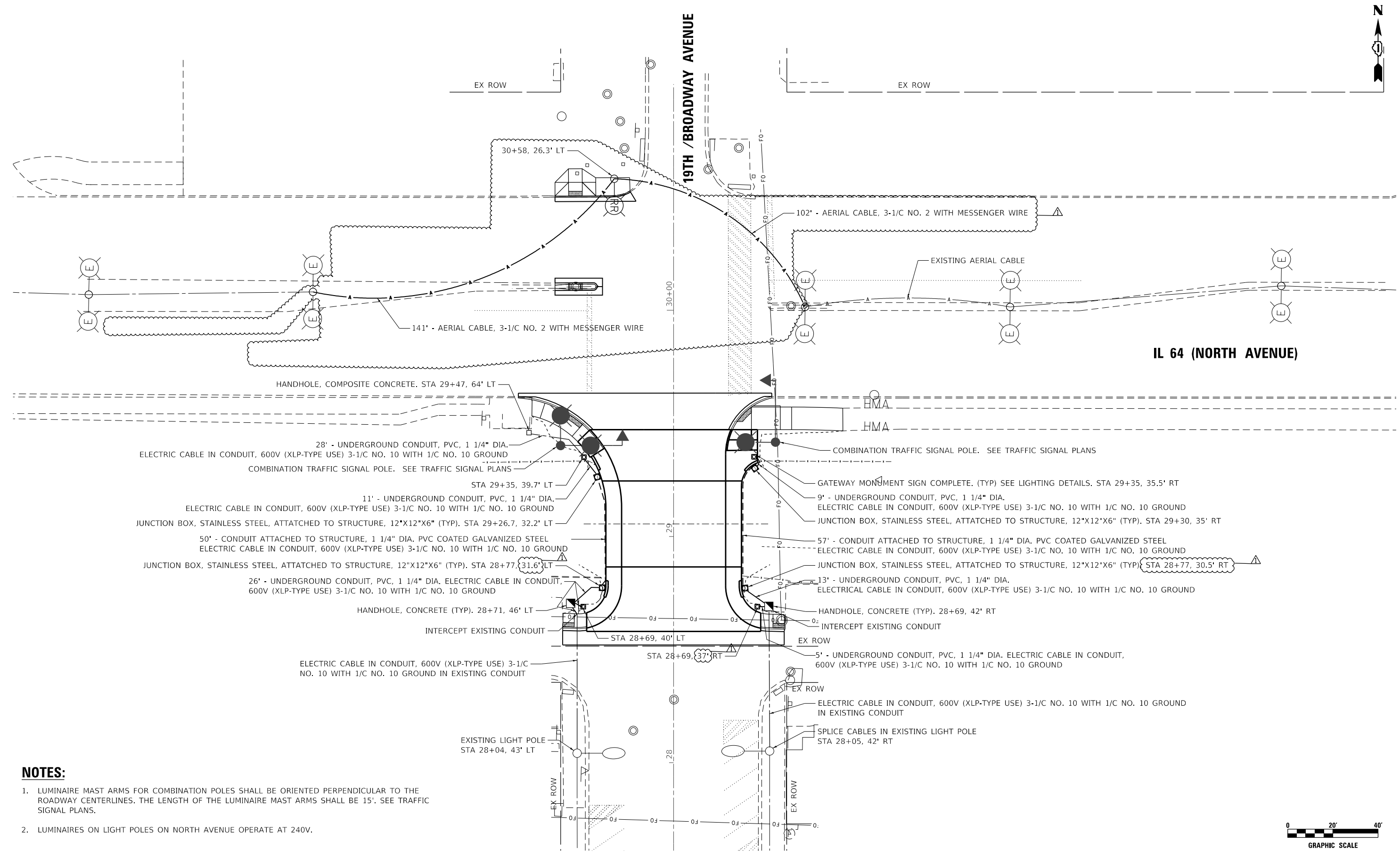
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PLOT DATE = 4/6/2023	DATE - 1/16/2023	REVISED -

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

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT**  
**TEMPORARY LIGHTING PLAN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	67
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. LUMINAIRE MAST ARMS FOR COMBINATION POLES SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY CENTERLINES. THE LENGTH OF THE LUMINAIRE MAST ARMS SHALL BE 15'. SEE TRAFFIC SIGNAL PLANS.
2. LUMINAIRES ON LIGHT POLES ON NORTH AVENUE OPERATE AT 240V.

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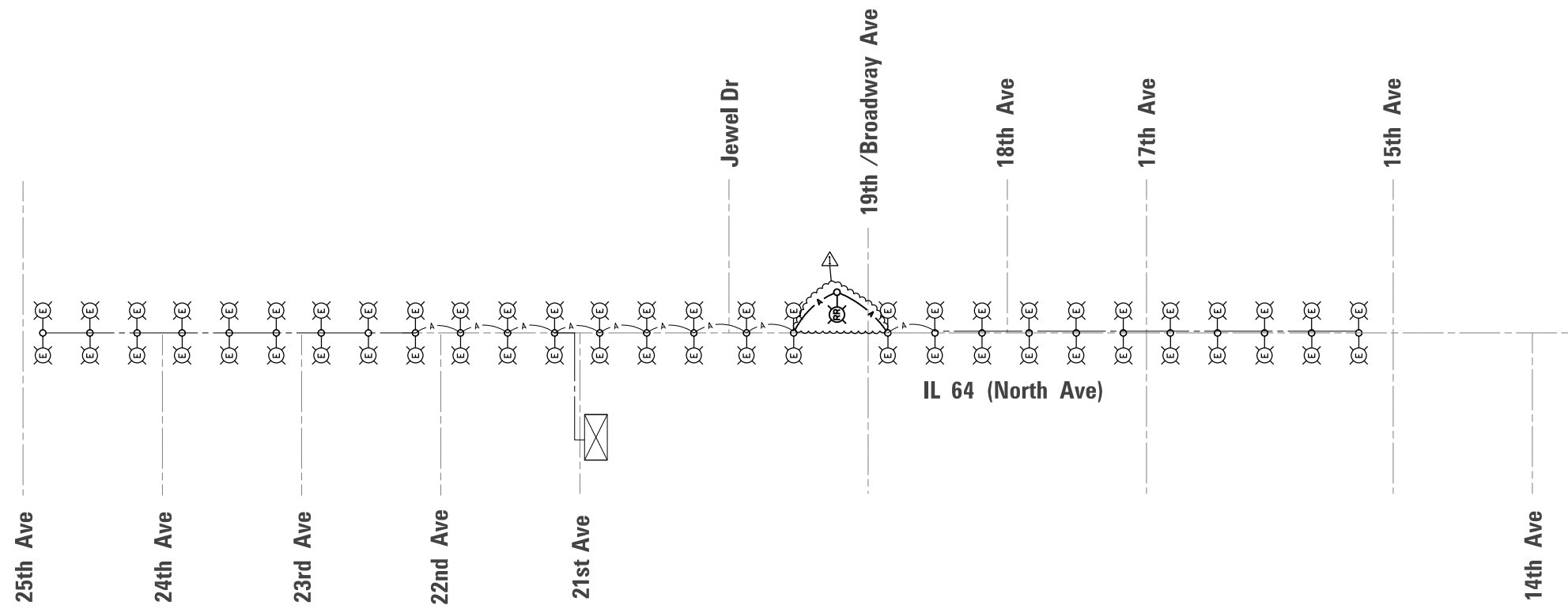
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PLOT DATE = 4/6/2023	DATE - 1/16/2023	REVISED -

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

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT**  
**PROPOSED LIGHTING PLAN**




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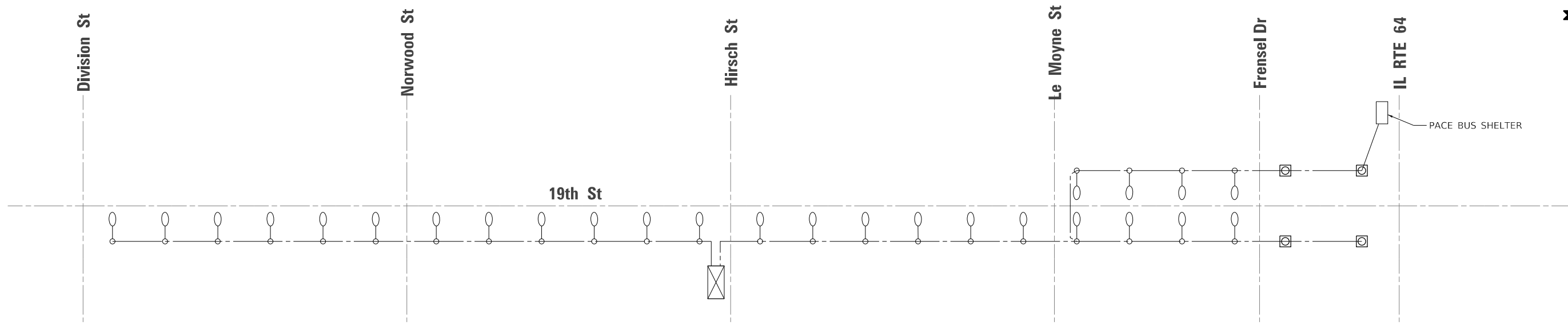
F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 68
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



**NORTH AVENUE SINGLE LINE DIAGRAM**


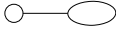

**LEGEND:**

-  EXISTING 240/480V LIGHTING CONTROLLER (LUMINAIRES OPERATE AT 240V).
-  EXISTING STREET LIGHT TO REMAIN
-  RELOCATED EXISTING POLE FROM SW QUADRANT WITH MAST ARM, AND LUMINAIRE




**19TH AVENUE SINGLE LINE DIAGRAM**

**LEGEND:**

-  EXISTING 240/480V LIGHTING CONTROLLER (LUMINAIRES OPERATE AT 240V).
-  EXISTING LIGHT POLE TO REMAIN (MELROSE PARK)
-  PROPOSED GATEWAY MONUMENT SIGN COMPLETE, WITH LUMINAIRE, LED, SPECIAL

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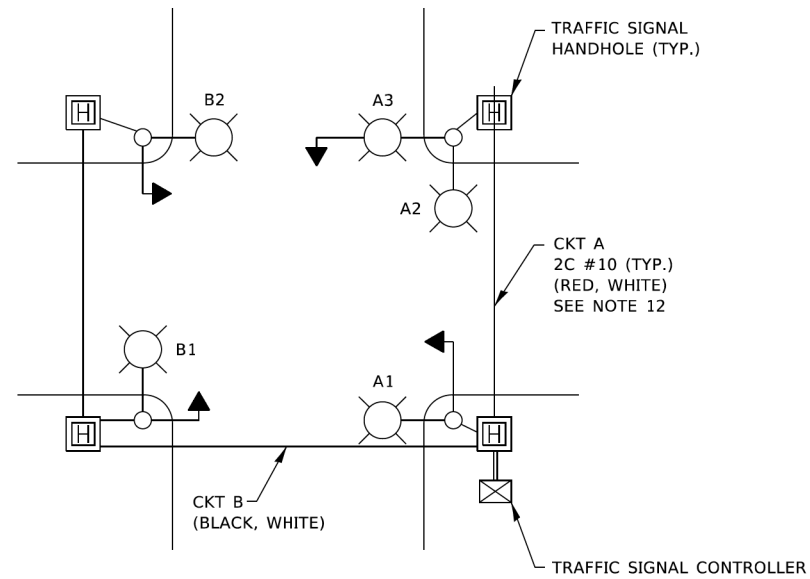
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

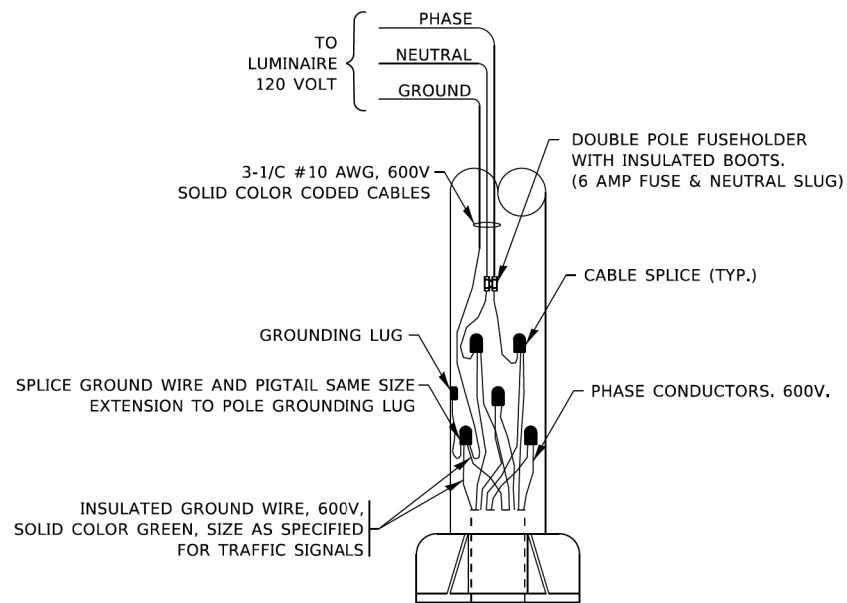
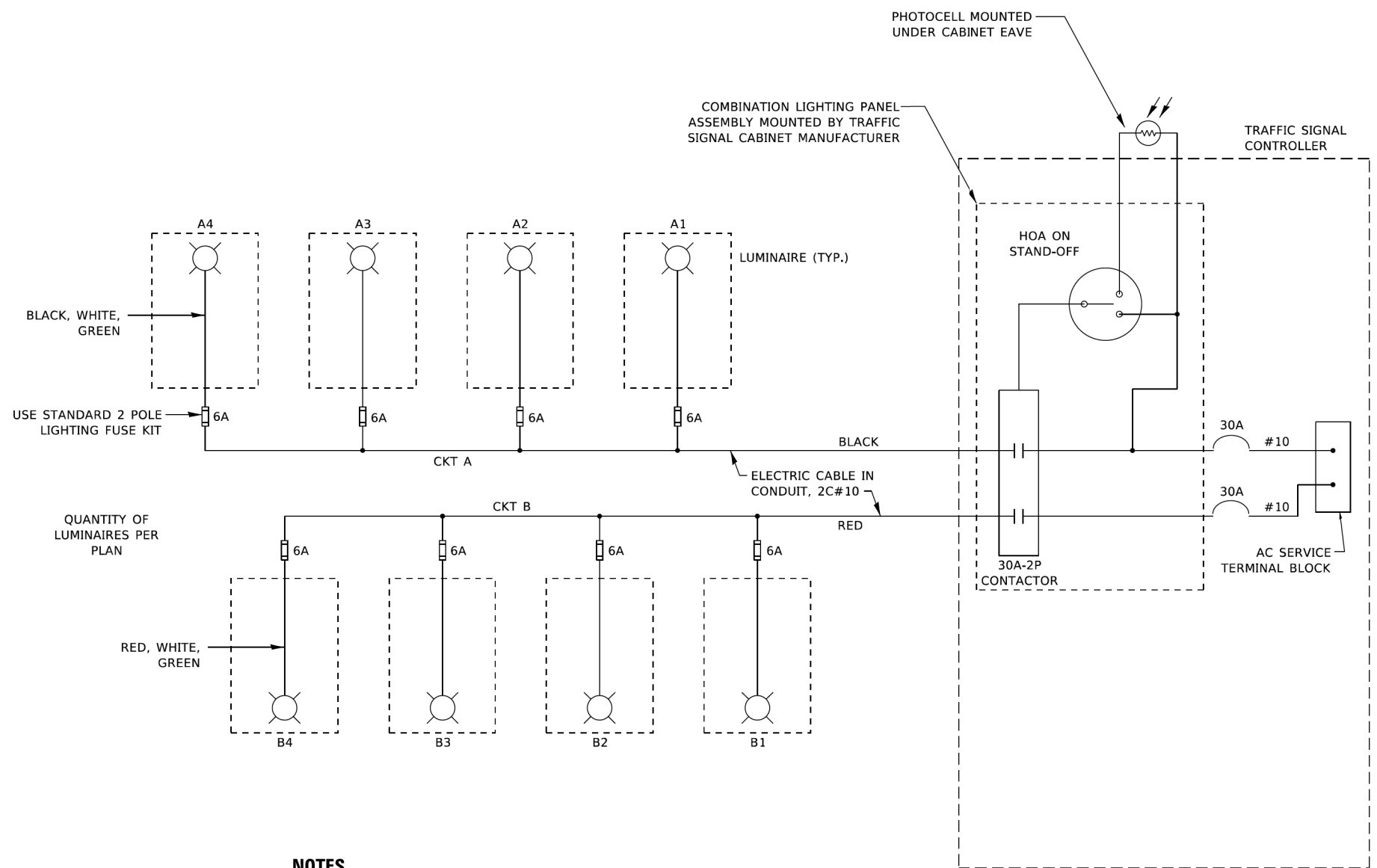
**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT  
SINGLE LINE DIAGRAM**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	69
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



**TYPICAL LIGHTING CIRCUIT**  
(NOT TO SCALE)



**COMBINATION POLE WIRING DETAIL**  
(NOT TO SCALE)

**NOTES**

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.

M:\FILES\paul@bechtel.com\PROJECTS\2023\16-00131-00-01\16-00131-00-01-01.dwg  
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 DATE: 5/5/2022

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DRAWN -	REVISOR - T.G. 4/12/2017	REVISED - R. TOMSONS 3/22/18
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

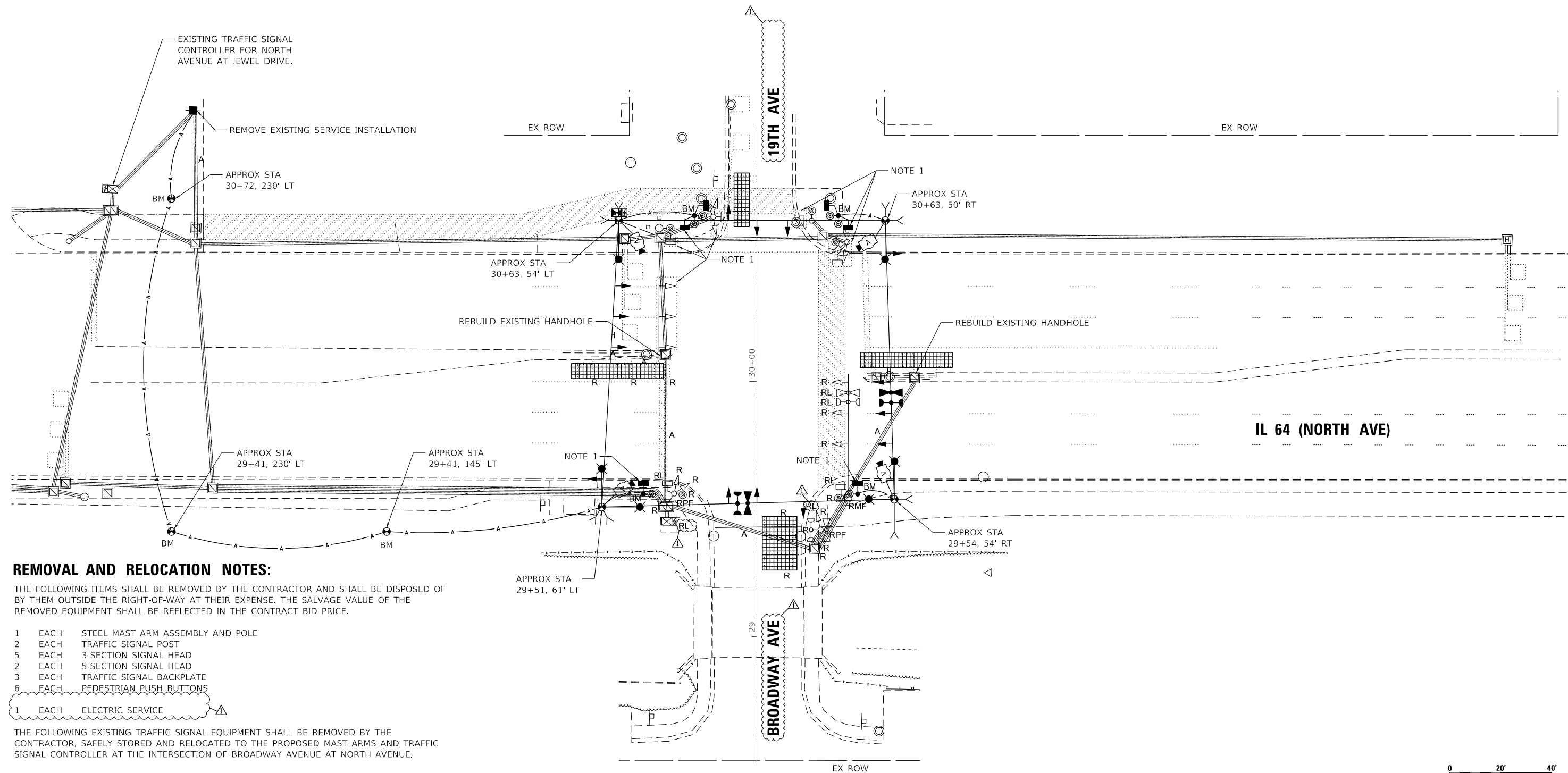
**COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	74
<b>BE-240</b>			CONTRACT NO. <b>61J48</b>	
ILLINOIS FED. AID PROJECT				

**TEMPORARY TRAFFIC SIGNAL NOTES:**

- BAG EXISTING TRAFFIC AND PEDESTRIAN HEADS DURING CONSTRUCTION. BAG TEMPORARY PEDESTRIAN HEADS AS NOTED.
- TEMPORARY WOOD POLES AT INTERSECTION SHALL BE 60' IN LENGTH TO ACCOMMODATE TEMPORARY LUMINAIRE 45' MOUNTING HEIGHT. SEE TEMPORARY LIGHTING PLANS.



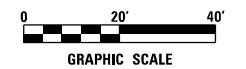
**REMOVAL AND RELOCATION NOTES:**

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.

- EACH STEEL MAST ARM ASSEMBLY AND POLE
  - EACH TRAFFIC SIGNAL POST
  - EACH 3-SECTION SIGNAL HEAD
  - EACH 5-SECTION SIGNAL HEAD
  - EACH TRAFFIC SIGNAL BACKPLATE
  - EACH PEDESTRIAN PUSH BUTTONS
- 1 EACH ELECTRIC SERVICE

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 AT THE INTERSECTION OF BROADWAY AVENUE AT NORTH AVENUE.

- EACH CONTROLLER
- EACH CABINET
- EACH CONFIRMATION BEACON
- EACH LIGHT DETECTOR
- EACH LIGHT DETECTOR AMPLIFIER
- EACH PEDESTRIAN SIGNAL HEAD



TS# 3015  
MELROSE PARK

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USER NAME = Electrical	DESIGNED - DTJ	REVISED - 04/06/2023
	DRAWN - DTJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMV	REVISED -
PLOT DATE = 4/11/2023	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

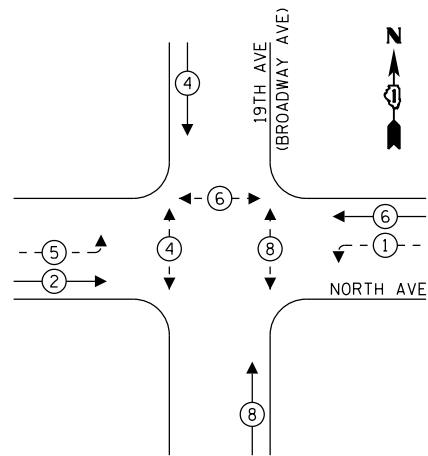
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 64 (NORTH AVE) AT 19TH AVE / BROADWAY AVE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	86
CONTRACT NO.			61J48	

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

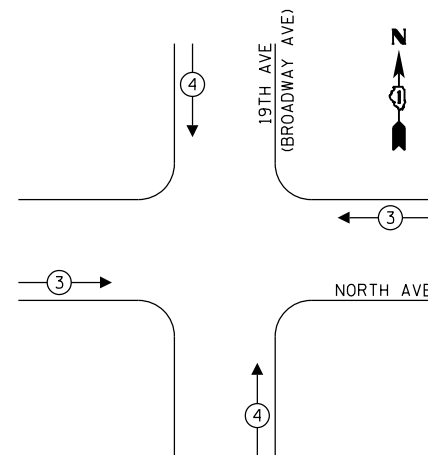
ILLINOIS FED. AID PROJECT

**TEMPORARY CONTROLLER SEQUENCE**



- LEGEND:**
- ← (⊙) ← PROTECTED PHASE
  - ← (⊙) ← PROTECTED/PERMITTED PHASE
  - ← (⊙) ← PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**



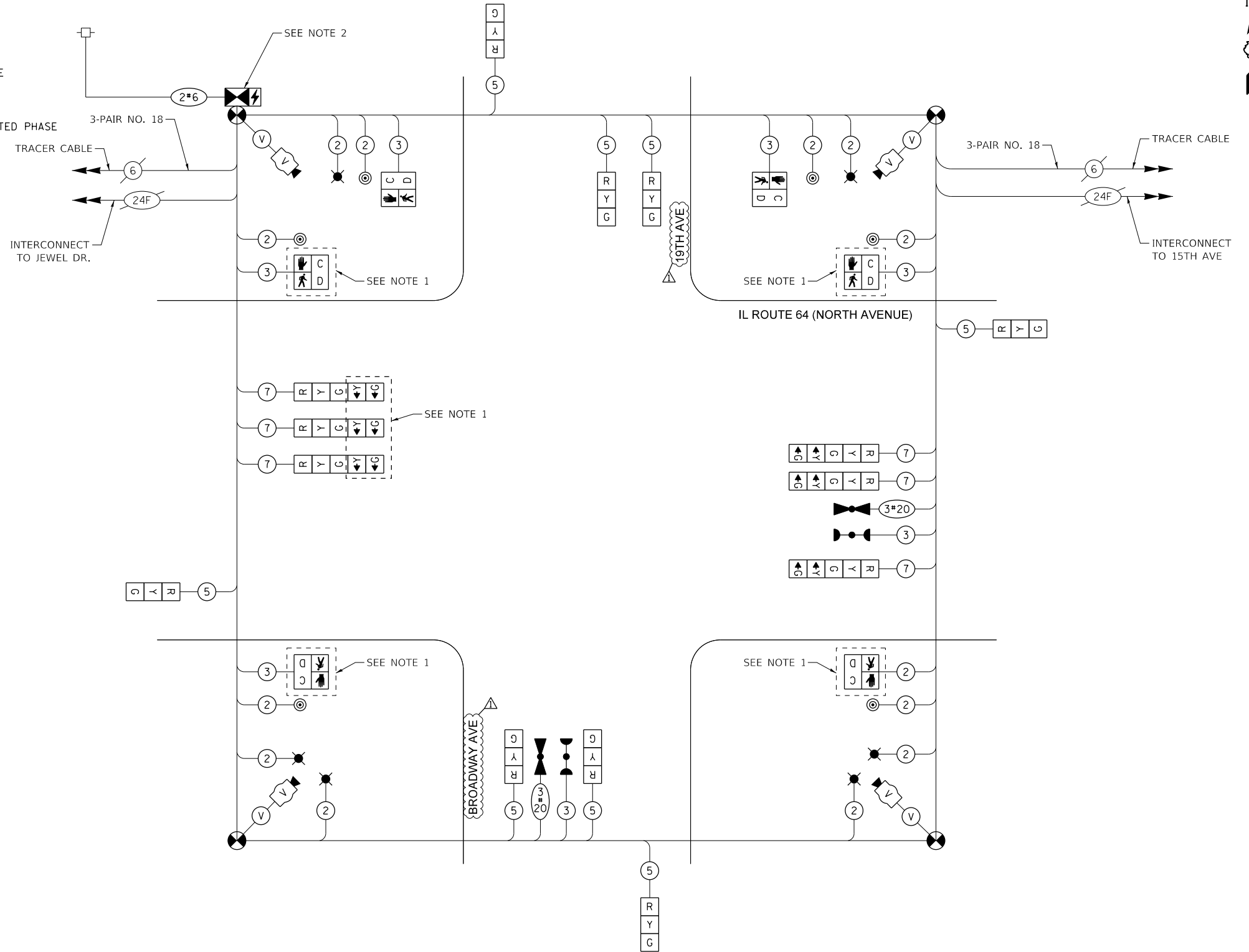
**TEMPORARY TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PROTECTED ARROW	12	10	10	8.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
SCREEN NAME SIGN	-	120	100	-
LUMINAIRE	6	150	50	450.0
TOTAL =				1019.6

ENERGY COSTS TO:

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

ENERGY SUPPLY CONTACT: NEW BUSINESS  
COMPANY: COMMONWEALTH EDISON  
PHONE: (866) 639-3532  
ACCOUNT NUMBER: ---



**TEMPORARY CABLE PLAN**  
(NOT TO SCALE)

**NOTES:**

1. BAG PEDESTRIAN SIGNALS AND WESTBOUND LEFT TURN ARROW SIGNALS DURING CONSTRUCTION.
2. PULL EXISTING INTERCONNECT FIBER OPTIC CABLES INTO TEMPORARY SIGNAL CONTROLLER.

TS# 3015  
MELROSE PARK

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DRAWN - DTJ  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 4/11/2023

DESIGNED - DTJ  
DRAWN - DTJ  
CHECKED - JMV  
DATE - 1/16/2023

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	87

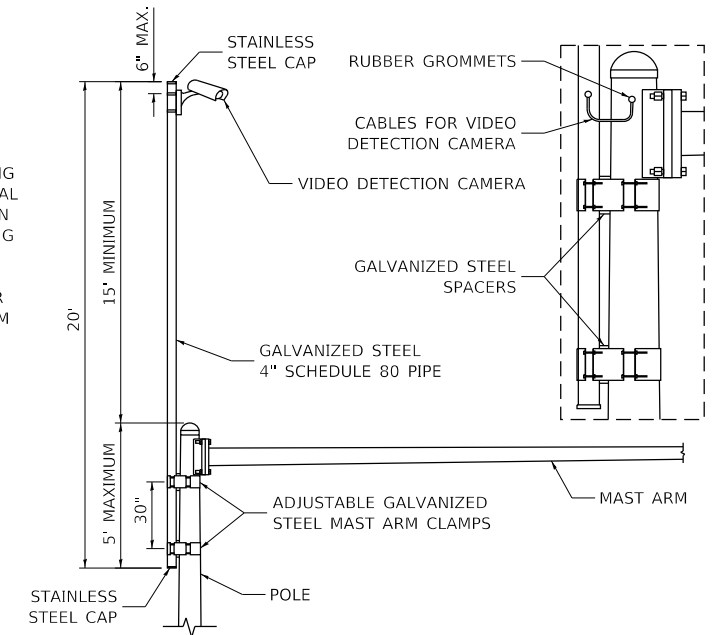
CONTRACT NO. 61J48  
ILLINOIS FED. AID PROJECT

**NOTES:**

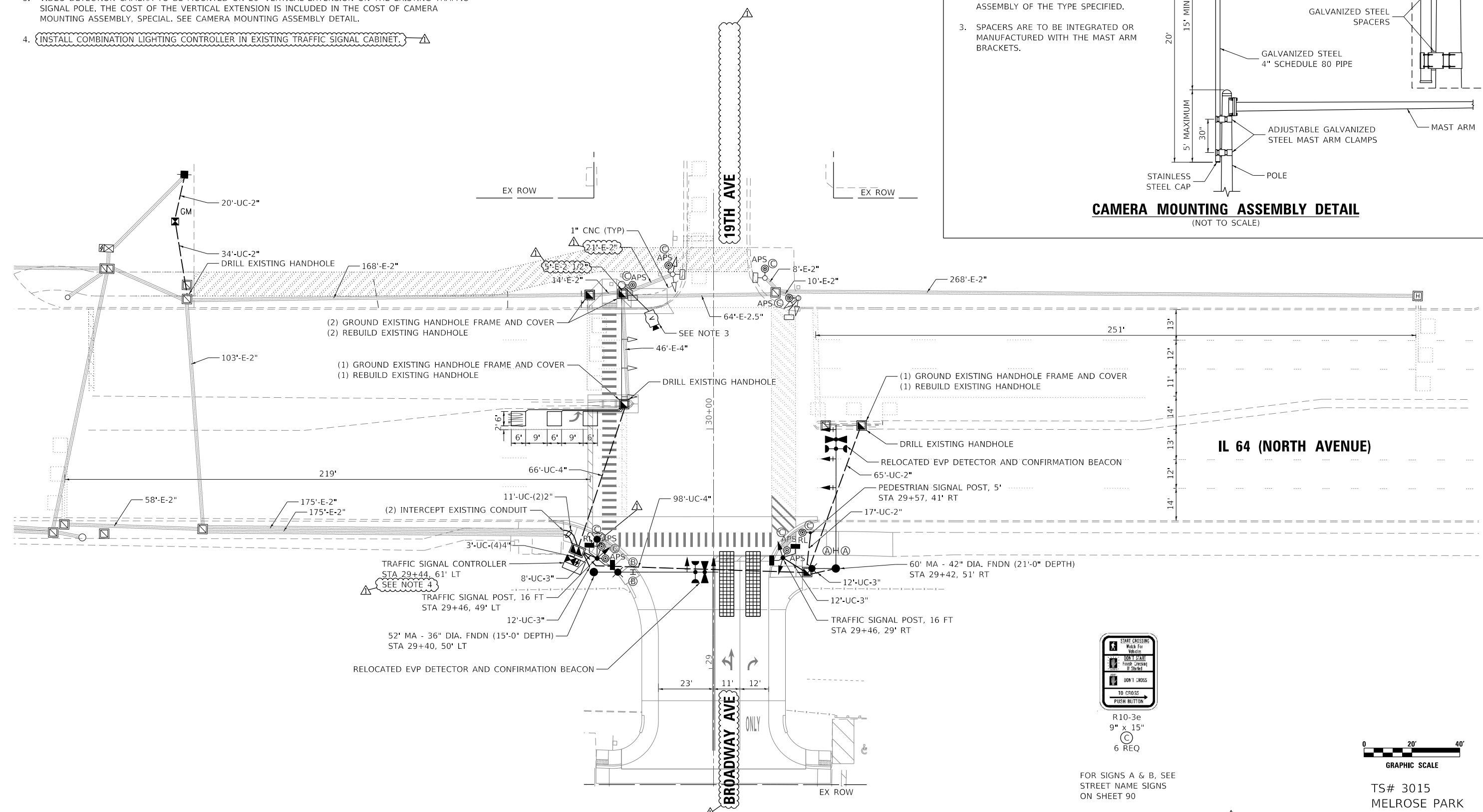
- LUMINAIRE MAST ARMS FOR COMBINATION POLES SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY CENTERLINES. THE LENGTH OF THE LUMINAIRE MAST ARMS SHALL BE 15'. LUMINAIRE MOUNTING HEIGHT SHALL BE 45'.
- EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.
- VIDEO DETECTION CAMERA TO BE MOUNTED ON 20' VERTICAL EXTENSION ON THE EXISTING TRAFFIC SIGNAL POLE. THE COST OF THE VERTICAL EXTENSION IS INCLUDED IN THE COST OF CAMERA MOUNTING ASSEMBLY, SPECIAL. SEE CAMERA MOUNTING ASSEMBLY DETAIL.
- INSTALL COMBINATION LIGHTING CONTROLLER IN EXISTING TRAFFIC SIGNAL CABINET.

**DETAIL NOTES:**

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



**CAMERA MOUNTING ASSEMBLY DETAIL**  
(NOT TO SCALE)



R10-3e  
9" x 15"  
6 REQ



FOR SIGNS A & B, SEE STREET NAME SIGNS ON SHEET 90

TS# 3015  
MELROSE PARK

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PLOT SCALE = 40.0000' / in.	CHECKED - JMV	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

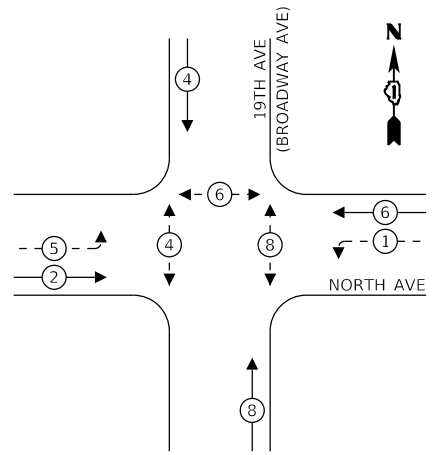
**TRAFFIC SIGNAL MODIFICATION PLAN**  
**IL RTE 64 (NORTH AVE) AT 19TH AVE /BROADWAY AVE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	88
CONTRACT NO.			61J48	

ILLINOIS FED. AID PROJECT

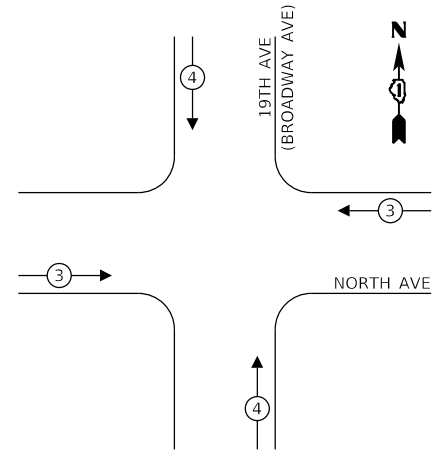
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

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

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
PROTECTED ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREEN NAME SIGN	1	120	100	120.0
LUMINAIRE	3	150	50	225.0
TOTAL =				846.5

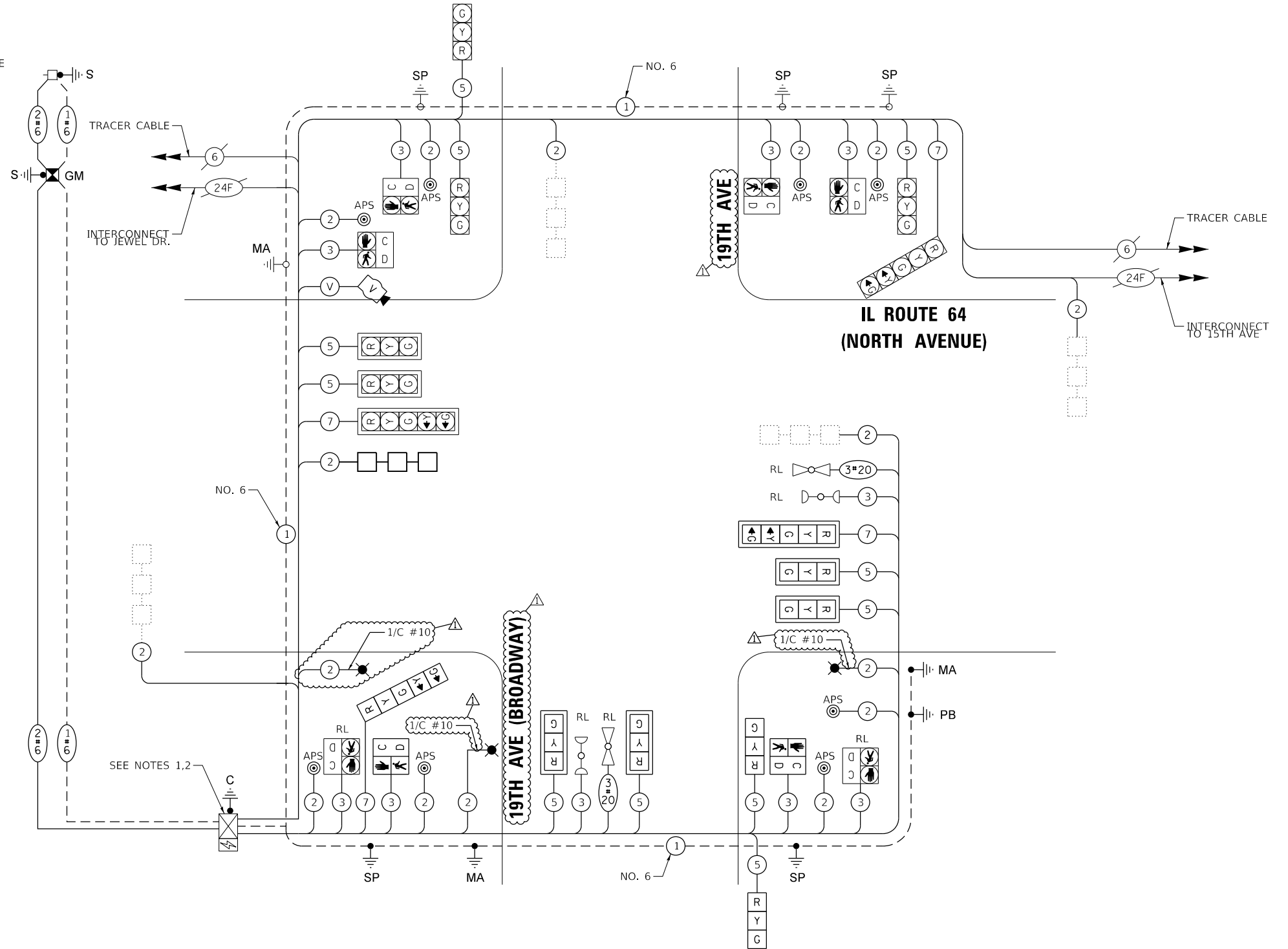
ENERGY COSTS TO:

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

ENERGY SUPPLY CONTACT: NEW BUSINESS  
COMPANY: COMMONWEALTH EDISON  
PHONE: (866) 639-3532  
ACCOUNT NUMBER: ---

**NOTES:**

- REINSTALLED EXISTING TRAFFIC SIGNAL CABINET. PAID FOR AS RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE.
- PULL EXISTING FIBER OPTIC CABLES INTO RELOCATED SIGNAL CABINET.



**PROPOSED CABLE PLAN**  
(NOT TO SCALE)



USER NAME = Electrical	DESIGNED - DTJ	REVISED - 04/06/2023
DRAWN - DTJ	REVISIONS -	
PLOT SCALE = 40,000' / 1"	CHECKED - JMV	REVISIONS -
PLOT DATE = 4/11/2023	DATE - 1/16/2023	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 89
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

DATE PLOTTED = 4/11/2023 12:23:21 PM  
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TS# 3015  
MELROSE PARK

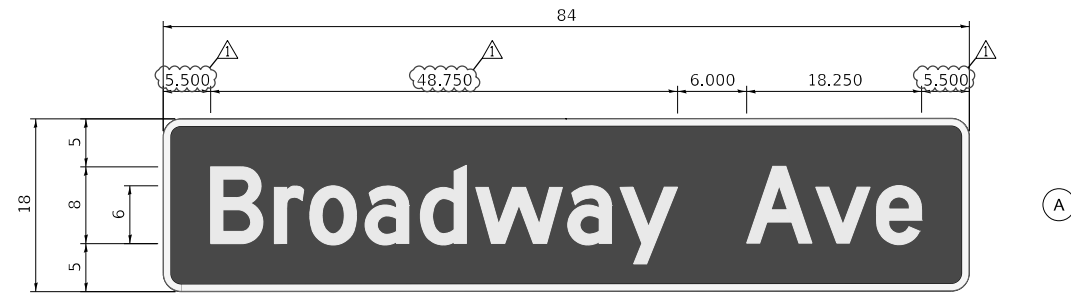
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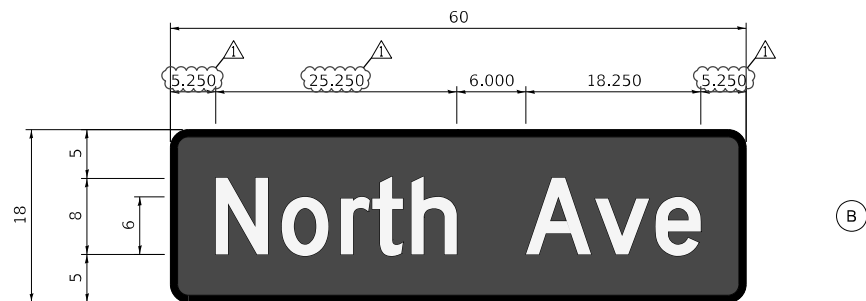
**SCHEDULE OF QUANTITIES**

**STREET NAME SIGNS**

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	2	ZZ	2



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

DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	21
SIGN PANEL - TYPE 2	SQ FT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	136
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	176
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	788
PAINT NEW TRAFFIC SIGNAL POST	EACH	3
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,176
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,546
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,590
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	737
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,203
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	350
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	447
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
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	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
DETECTOR LOOP, TYPE I	FOOT	155
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	4
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	328
ROD AND CLEAN EXISTING CONDUIT	FOOT	149
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
INTERCEPT EXISTING CONDUIT	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
CAMERA MOUNTING ASSEMBLY, SPECIAL	EACH	1

\* 100% OF COST TO THE VILLAGE OF MELROSE PARK

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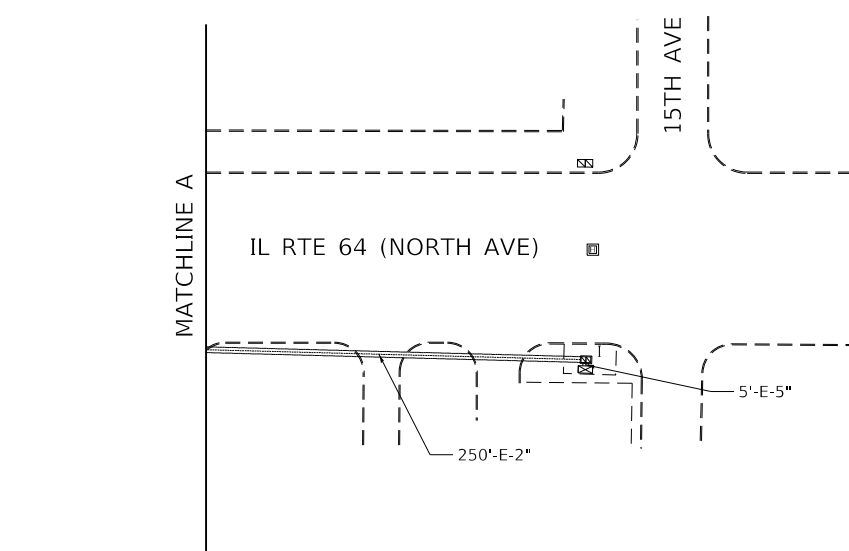
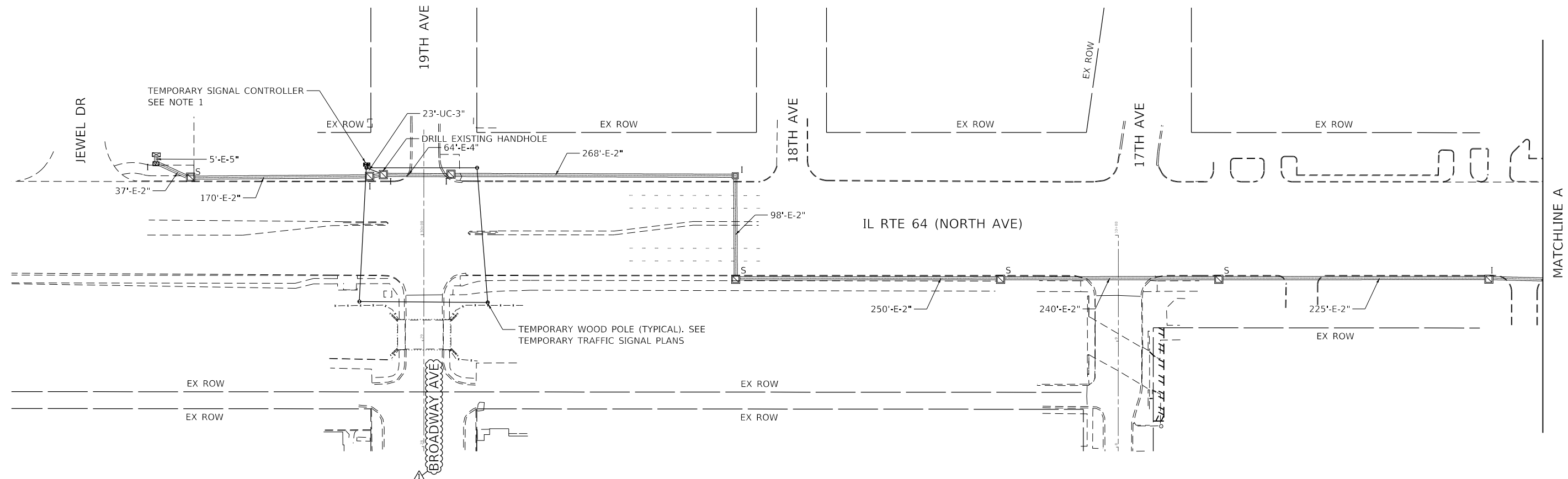
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

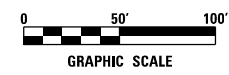
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F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 90
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



**NOTES:**

- 1. PULL EXISTING INTERCONNECT FIBER OPTIC CABLES INTO TEMPORARY SIGNAL CONTROLLER.



ECON 100

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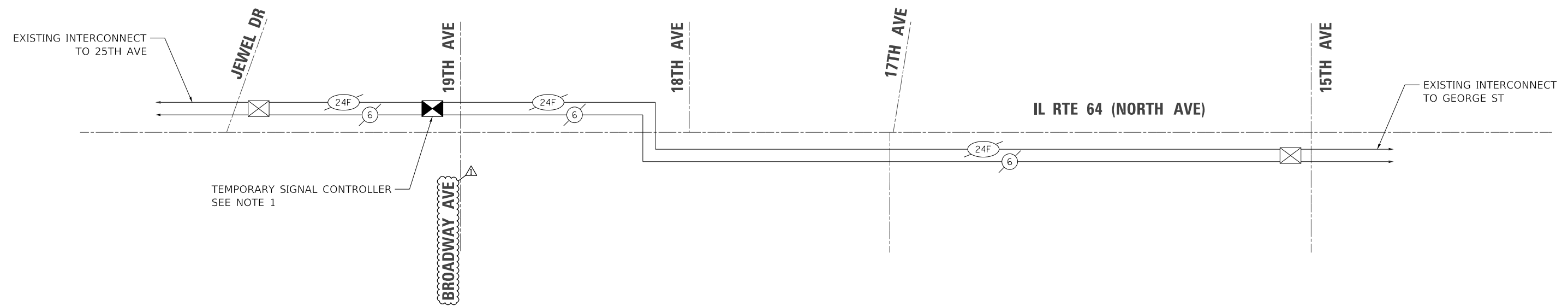
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PLOT DATE = 4/11/2023	DATE - 1/16/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN  
IL RTE 64 (NORTH AVE)  
JEWEL DR TO 15TH AVE**

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	91
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. PULL EXISTING INTERCONNECT FIBER OPTIC CABLES INTO TEMPORARY SIGNAL CONTROLLER.
2. THE FOLLOWING INTERSECTIONS SHALL BE MAINTAINED BY THE CONTRACTOR:  
 IL RTE 64 AND JEWEL DR  
 IL RTE 64 AND 19TH AVE  
 IL RTE 64 AND 15TH AVE
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND LOCATE THE EXISTING FIBER OPTIC CABLE BETWEEN THE INTERSECTIONS LISTED ABOVE. THE INTERCONNECT SYSTEMS BEYOND THE INTERSECTION WILL BE MAINTAINED BY IDOT.

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ECON 100



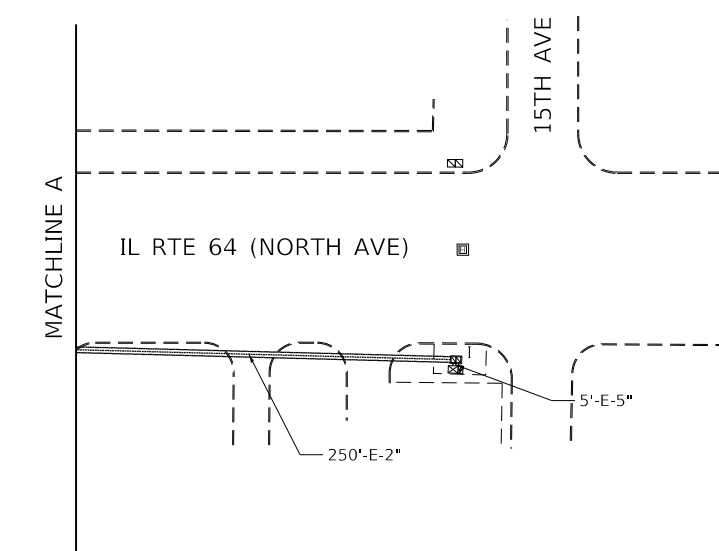
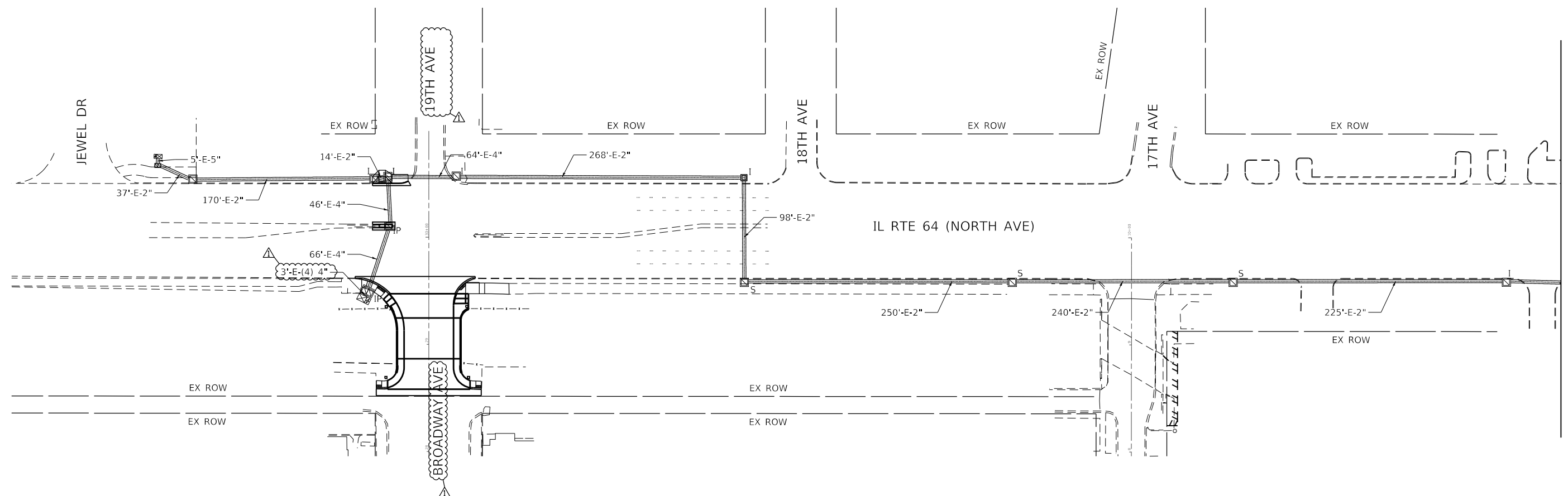
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PLOT DATE = 4/11/2023	DATE - 1/16/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC**  
**IL RTE 64 (NORTH AVE)**  
**JEWEL DR TO 15TH AVE**

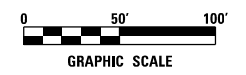
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	92
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



**NOTES:**

- PULL EXISTING INTERCONNECT FIBER OPTIC CABLES FROM TEMPORARY SIGNAL CONTROLLER INTO RELOCATED SIGNAL CONTROLLER IN SW QUADRANT OF THE INTERSECTION.



ECON 100

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PLOT DATE = 4/11/2023	CHECKED - JMV	REVISED -
	DATE - 1/16/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN  
IL RTE 64 (NORTH AVE)  
JEWEL DR TO 15TH AVE**

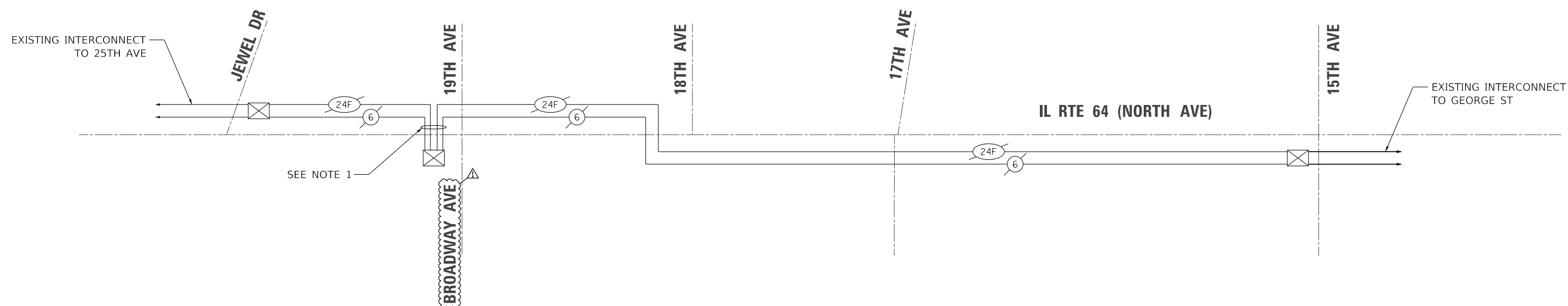
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	93
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



**NOTES:**

- PULL EXISTING INTERCONNECT FIBER OPTIC CABLES FROM TEMPORARY SIGNAL CONTROLLER INTO RELOCATED TRAFFIC SIGNAL CONTROLLER IN SW QUADRANT OF THE INTERSECTION.



**SUMMARY OF QUANTITIES**

DESCRIPTION	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	145
REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT	FOOT	360

ECON 100

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES**  
 IL RTE 64 (NORTH AVE)  
 JEWEL DR TO 15TH AVE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	94
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	