

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

DISTRICT 1  
CONGESTION MITIGATION AIR QUALITY  
FIBER OPTIC COMMUNICATION NETWORKS  
FAP ROUTE 307 (ILL. RTE 64) FROM  
CORNELL AV. TO AUSTIN BLVD.

SECTION 2006-003 TS  
COOK COUNTY  
C-91-276-06

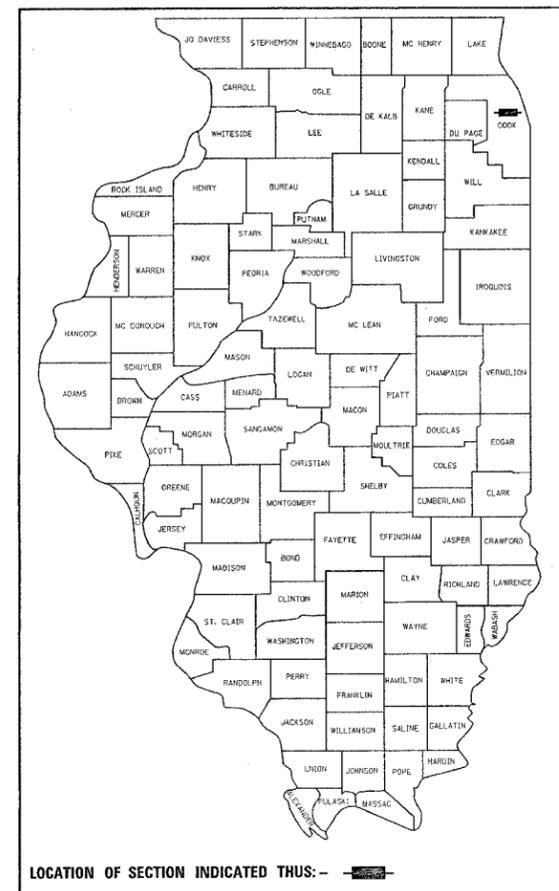
PROJECT: CMF-0307(027)

LOCATION MAP  
(NOT TO SCALE)



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	1

60B13  
D-91-276-06



IMPROVEMENT LOCATED IN  
THE VILLAGE OF OAK PARK

IMPROVEMENT BEGINS

IMPROVEMENT ENDS

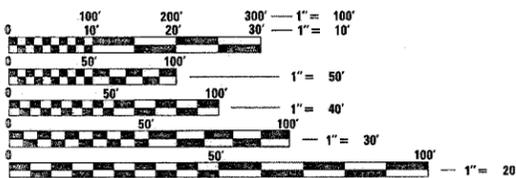


RIVER FOREST TWP.

OAK PARK TWP.

STANDARDS

701006-02 701011-01 701101-01 701301-02 424001-04  
702001-06 857001 880006 701801-03 701501-03 701701-04



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

CONTRACT NO. 60B13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED July 5, 2006  
Diane M. O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 18, 2006  
Mike Line  
ENGINEER OF DESIGN AND ENVIRONMENT

August 18, 2006  
Milton R. Sees, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	2

CONTRACT NO. 60813

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| 14. ILL. RTE. 64 AT 30TH AV./RUBY ST. TRAFFIC SIGNAL MODERNIZATION PLAN   | 28. ILL. RTE. 64 AT 9TH AV. TRAFFIC SIGNAL MODERNIZATION PLAN  | 44. ILL. RTE. 64 AT OAK PARK TRAFFIC SIGNAL MODERNIZATION PLAN   | 63. INTERCONNECT SCHEMATIC PLAN |
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| 19. ILL. RTE. 64 AT JEWEL DR.<br>- CABLE PLAN<br>- PHASE DESIGNATION DIAGRAM<br>- SCHEDULE OF QUANTITIES          | 33. ILL. RTE. 64 AT 5TH AV.<br>- CABLE PLAN<br>- PHASE DESIGNATION DIAGRAM<br>- SCHEDULE OF QUANTITIES             | 49. ILL. RTE. 64 AT NARRAGANSETT<br>- CABLE PLAN<br>- PHASE DESIGNATION DIAGRAM<br>- SCHEDULE OF QUANTITIES        |                                 |
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	3
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 60B13				

SUMMARY OF QUANTITIES		UNIT	URBAN TOTAL QUANT. 80% FED. 20% STATE	CONSTRUCTION TYPE CODE																				INTERCONNECT SCHEMATIC IL. 64 FROM RIDGELAND TO AUSTIN BLVD.		
CODE NO	ITEM			IL. RTE 64 AT CORNELL AVE.	IL. RTE 64 AT HAWTHORNE AVE.	IL. RTE 64 @ 30TH AVE/RUBY	IL. RTE 64 AT 25TH AVE.	IL. RTE 64 AT JEWEL DR.	IL. RTE 64 AT 19TH/BROADWAY	IL. RTE 64 AT 15TH AVE.	IL. RTE 64 AT 14TH AV/GEORGE	IL. RTE 64 AT WINTSTON PK PL	IL. RTE 64 AT 9TH AV	IL. RTE 64 AT 7TH AV	IL. RTE 64 AT 5TH AV	IL. RTE 64 AT 1ST AV	IL. RTE 64 AT FOLK PLAZA	IL. RTE 64 AT THATCHER RD.	IL. RTE 64 AT 76TH AV.	IL. RTE 64 AT IL. 43 (HARLEM)	IL. RTE 64 AT OAK PARK	IL. RTE. 64 AT NATOMA	IL. RTE. 64 AT NARRAGANSETT		IL. RTE. 64 AT RIDGELAND	IL. RTE. 64 AT AUSTIN BLVD.
				Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-IF		Y031-IF	Y031-IF
* 44000600	SIDEWALK REMOVAL	SQ. FT.	160																					80	80	
67100100	MOBILIZATION	LSUM	1	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.01	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.01	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.01	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.01	
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	2220																					450	1770	
81400100	HANDHOLE	EACH	4																					2	2	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
X032598	FULL-ACTUATED CONTROLLER	EACH	15	1		1	1	1	1	1	1	1			1	1	1			1	1					
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	6		1								1	1					1			1		1	1	
85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1																1							
86000100	MASTER CONTROLLER	EACH	1																1							
86400100	TRANSCEIVER - FIBER OPTIC	EACH	22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	810																					810		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	70																					70		
87900200	DRILL EXISTING HANDHOLE	EACH	4																							4
88500100	INDUCTIVE LOOP DETECTOR	EACH	63		11									8	15					9			7	13		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	36																	8	8	4	8	8		
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3																	1	2					
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	8																	2	3	2	1			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6																	2	1			3		
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	EACH	26																	4	4	8	4	6		
88600100	DETECTOR LOOP, TYPE 1	FOOT	135																					135		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	70																					70		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	2220																					70	2150	

\* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES  
IL. RTE. 64 FROM  
CORNELL AV. TO AUSTIN BLVD.  
PLOT DATE: 6/23/2006



CONSTRUCTION NOTES:

	NEW FULL-ACTUATED CONTROLLER	NEW FULL-ACTUATED CONTROLLER ANDTYPE IV CABINET	NEW FULL-ACTUATED CONTROLLER ANDTYPE V CABINET		NEW INDUCTIVE LOOP DETECTOR
* IL. RTE 64 AT CORNELL AVE.	X			EXISTING 3 PAIR NO. 18 CABLE SHALL REMAIN IN PLACE AND ACT AS TRACER CABLE.	
** IL. RTE 64 AT HAWTHORNE AVE.		X			X
* IL. RTE 64 AT 30TH AVE./RUBY ST.	X				
* IL. RTE 64 AT 25TH AVE.	X				
* IL. RTE 64 AT JEWEL DR.	X				
* IL. RTE 64 AT 19TH/BROADWAY	X				
* IL. RTE 64 AT 15TH AVE.	X				
* IL. RTE 64 AT 14TH AV/GEORGE ST.	X				
* IL. RTE 64 AT WINTSTON PARK PLAZA	X				
* IL. RTE 64 AT 9TH AV	X				
* IL. RTE 64 AT 7TH AV	X				
** IL. RTE 64 AT 5TH AV		X			X
** IL. RTE 64 AT 1ST AV		X			X
* IL. RTE 64 AT POLK PLAZA	X				
* IL. RTE 64 AT THATCHER RD.	X				
* IL. RTE 64 AT 76TH AV.	X				
** IL. RTE 64 AT IL. 43 (HARLEM)			X		
** IL. RTE 64 AT OAK PARK AV.		X			X
* IL. RTE. 64 AT NATOMA	X				
* IL. RTE. 64 AT NARRAGANSETT	X				
** IL. RTE. 64 AT RIDGELAND		X		X	
** IL. RTE. 64 AT AUSTIN BLVD.		X		X	

PROPOSED TRACER CABLE TO BE INSTALL FROM RIDEGLAND TO AUSTIN BLVD.

\* 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.

15 EACH CONTROLLER

\*\* 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.

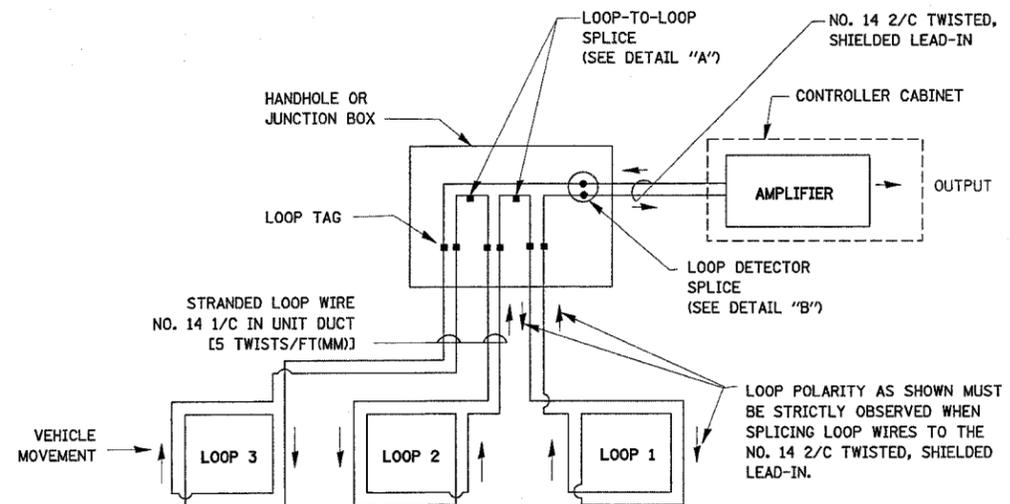
7 EACH CONTROLLER AND CABINET (COMPLETE)

RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER AND NEW CONTROLLER AND CABINET. THIS ITEM SHALL BE INCLUDED IN PAY ITEM OF NEW CONTROLLER.

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STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

**LOOP DETECTOR NOTES**

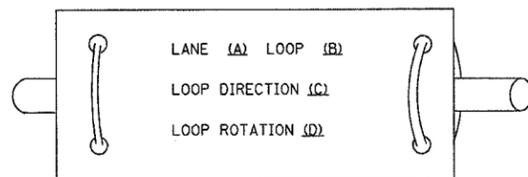
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES 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.
- 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.
- 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.



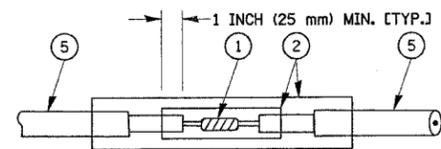
**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

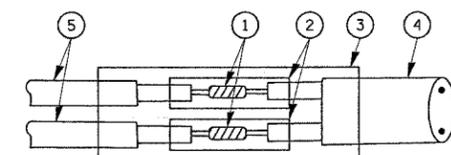
**LOOP LEAD-IN CABLE TAG**



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



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS

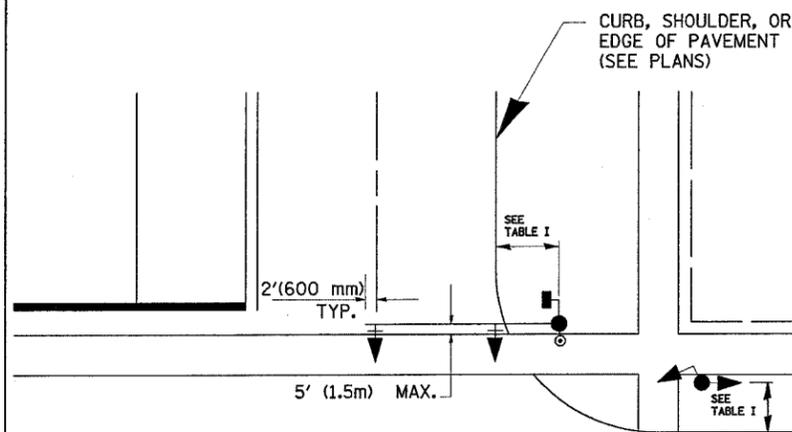
SCALE: VERT. NONE  
HORIZ.  
DATE 1-01-02  
DRAWN BY: RWP  
DESIGNED BY: DAD  
CHECKED BY: DAZ  
SHEET 1 OF 4

c:\projects\traffic\050014\164er1dgeland.dgn

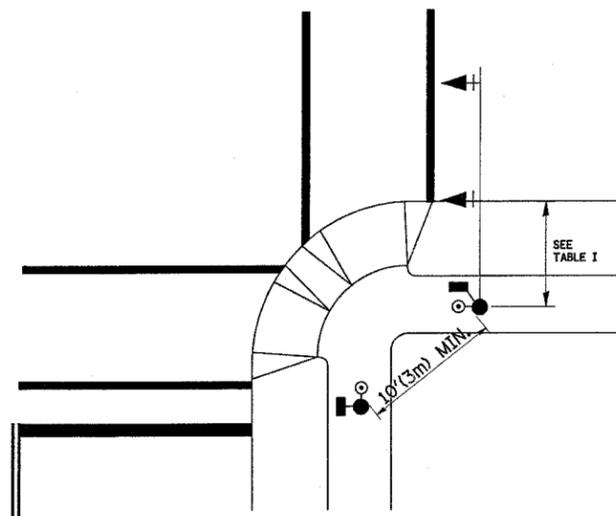
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	7
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60813				

**TRAFFIC SIGNAL MAST ARM AND POST**

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



**PEDESTRIAN SIGNAL PUSHBUTTON**



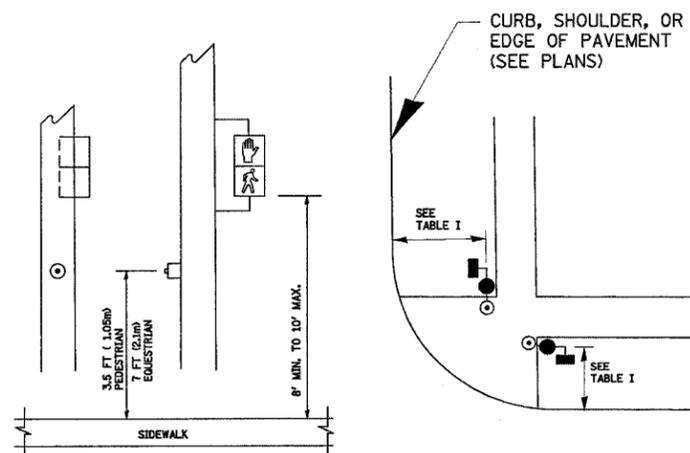
RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

**NOTES:**

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.  
  
AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.  
  
PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:  
  - A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
  - B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
  - C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
  - D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
  - E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

**PEDESTRIAN SIGNAL POST**

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION



**TABLE I**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

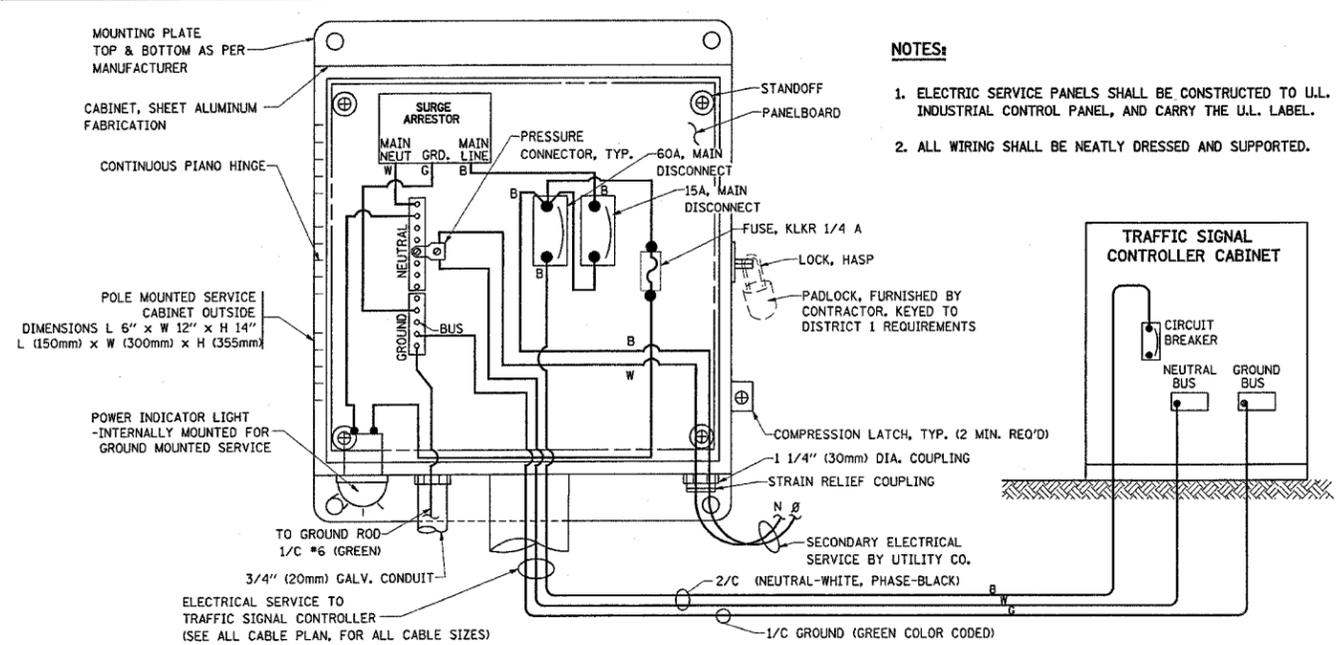
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT 1**  
**STANDARD TRAFFIC SIGNAL**  
**DESIGN DETAILS**

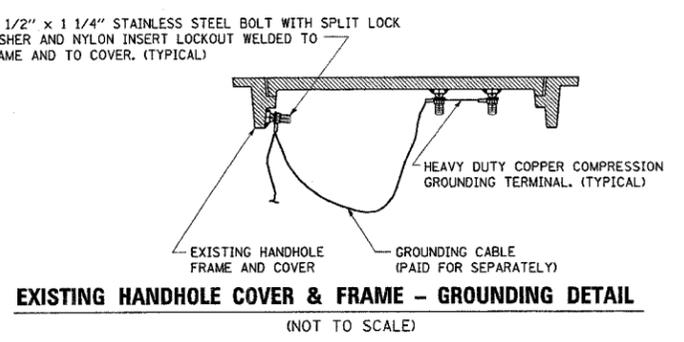
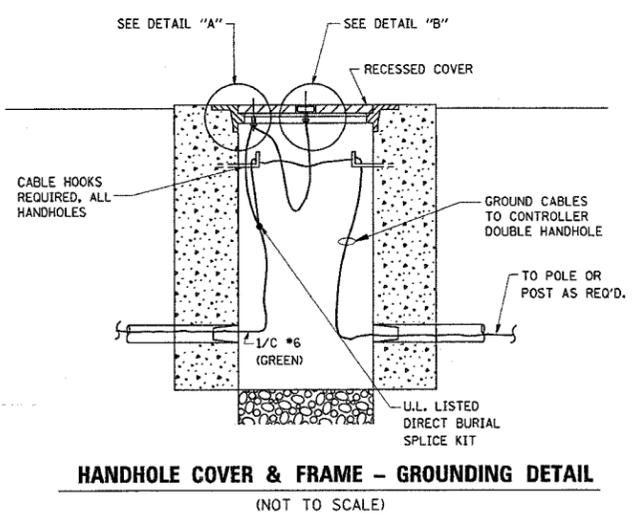
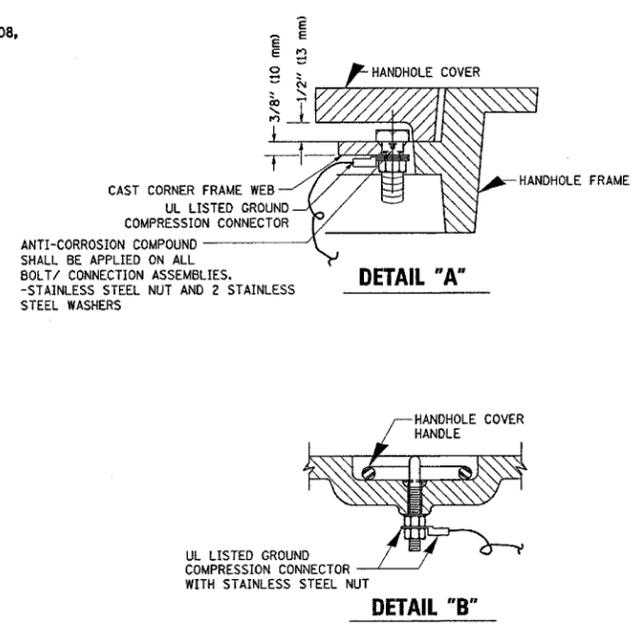
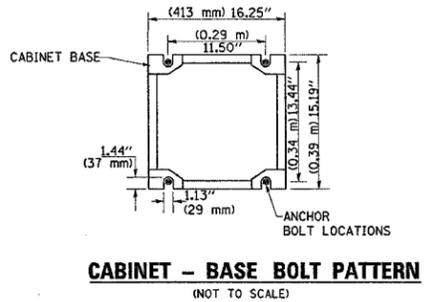
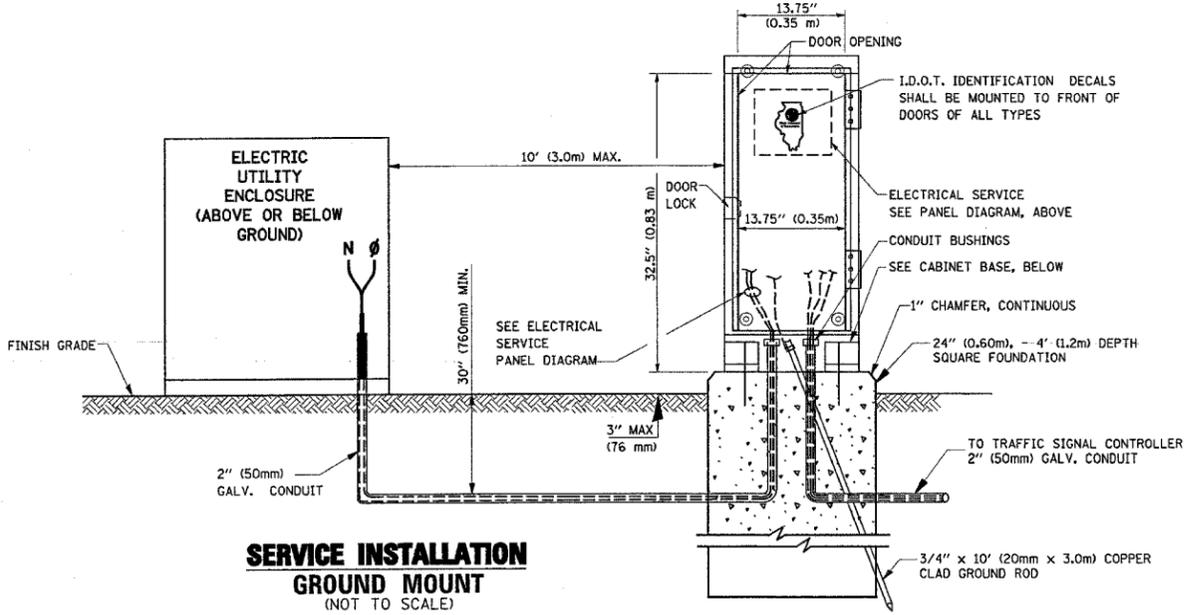
SCALE: VERT. NONE  
HORIZ.  
DATE 1-01-02

DRAWN BY: RWP  
DESIGNED BY: DAD  
CHECKED BY: DAZ  
SHEET 2 OF 4

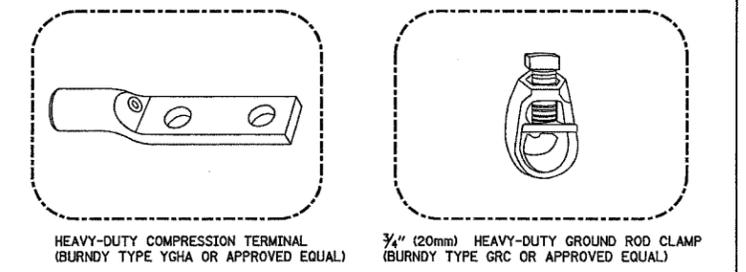
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60813				



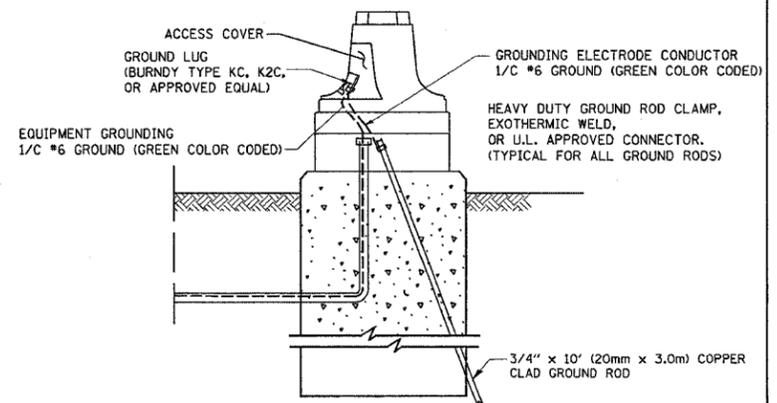
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
- 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.
  - 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.
  - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
  - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. 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.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		

**DISTRICT 1  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS**

SCALE: VERT. NONE  
 HORIZ. 1"-01-02

DATE: 1-01-02

DRAWN BY: RWP  
 DESIGNED BY: DAD  
 CHECKED BY: DAZ  
 SHEET 3 OF 4

6/23/2006 07:40:50 06/23/2006

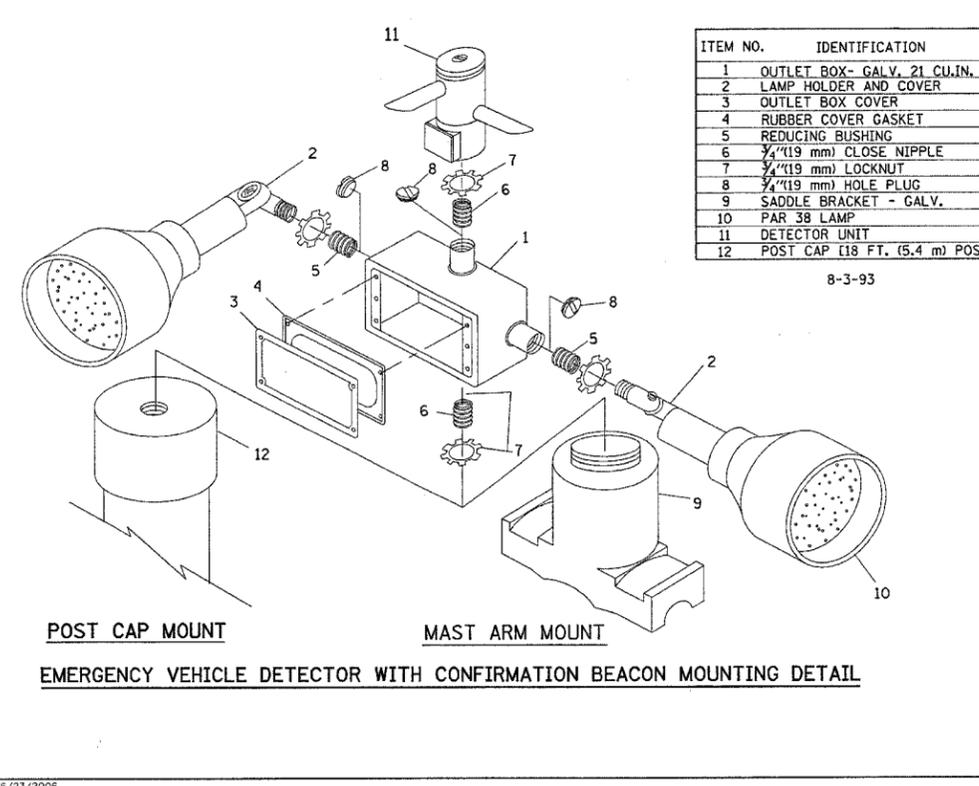
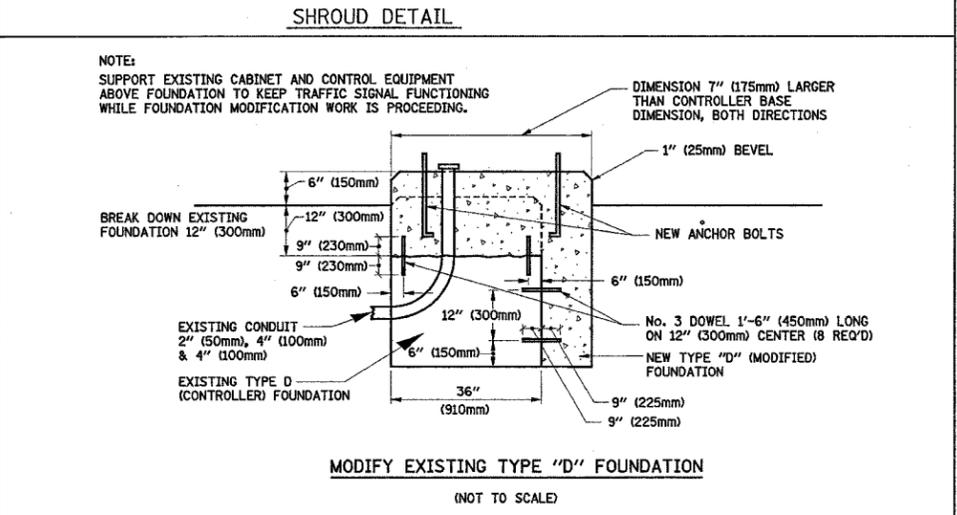
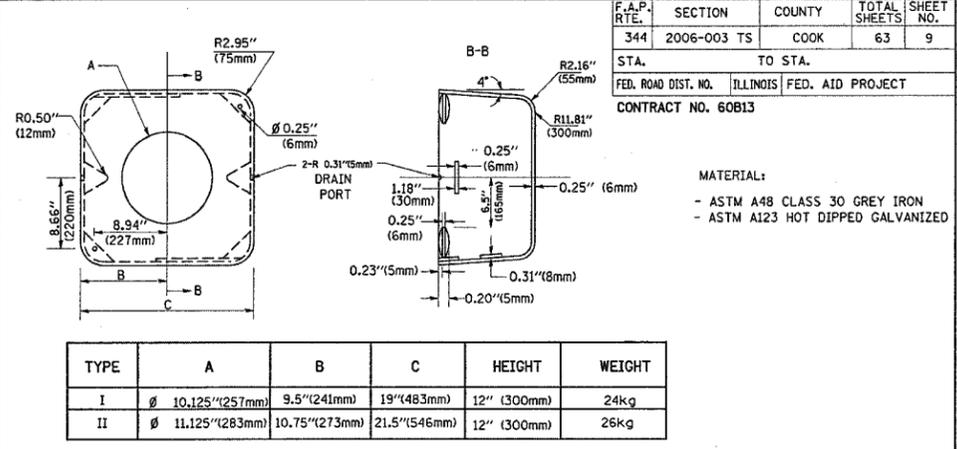
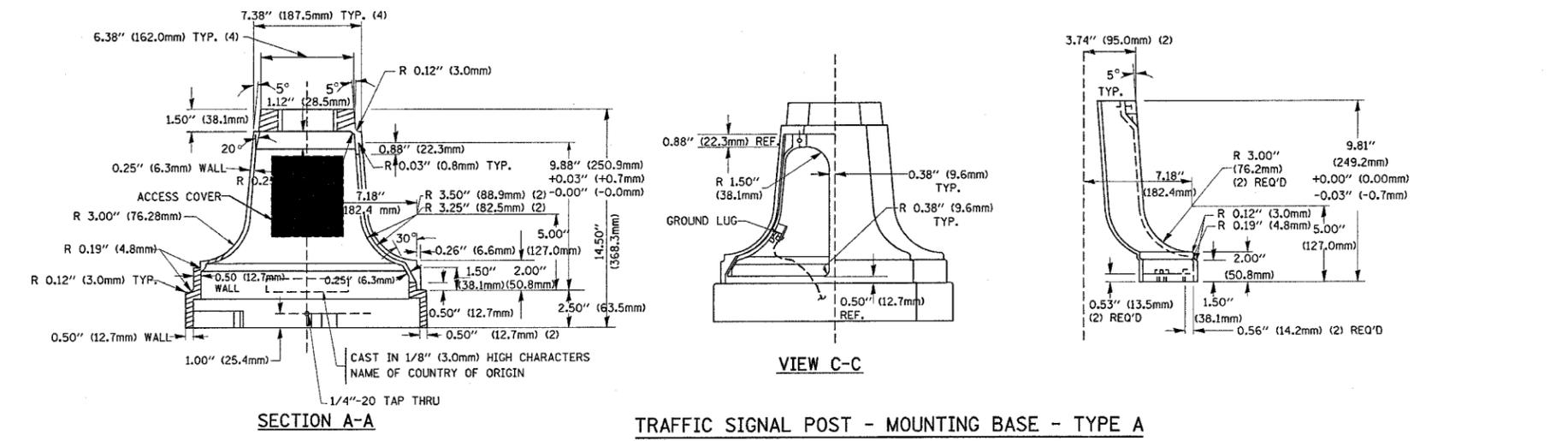
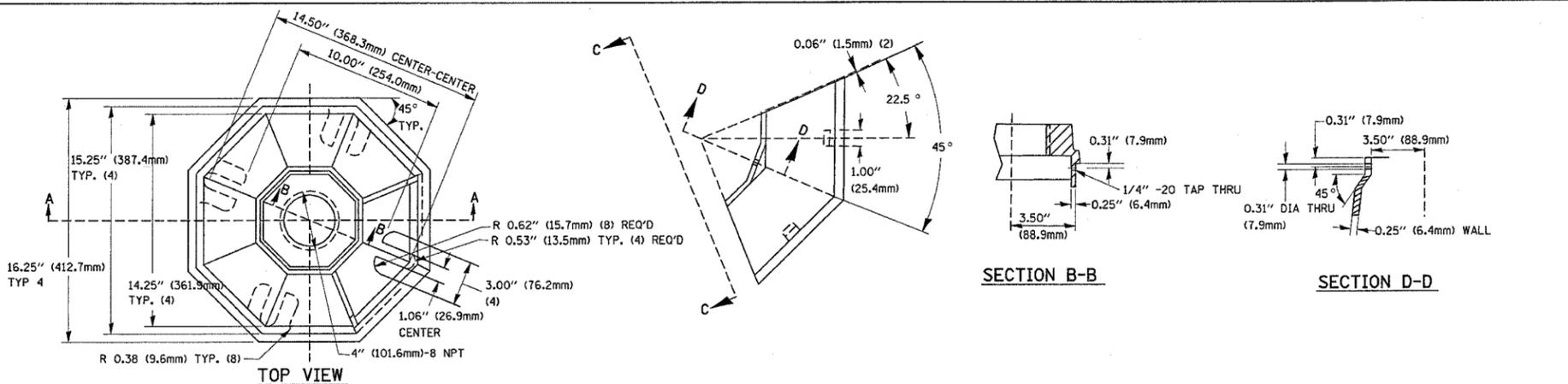
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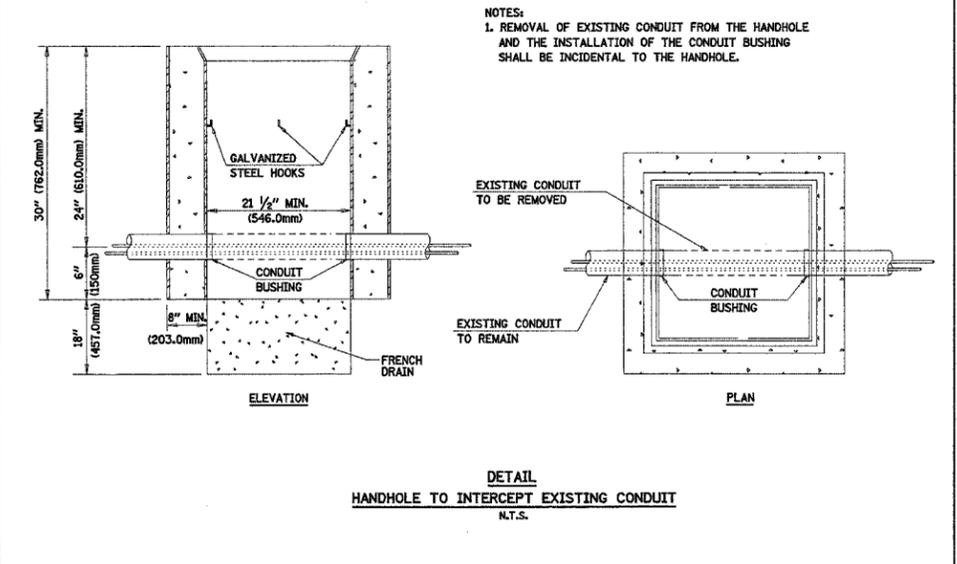
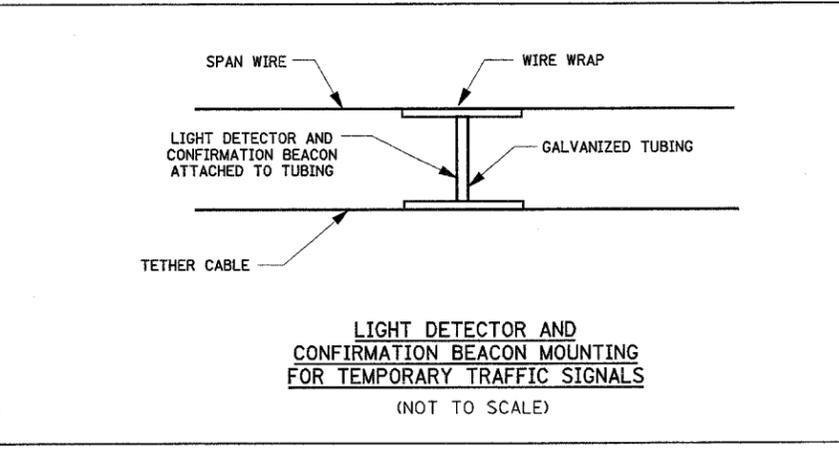
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	9

STA. TO STA.  
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT  
CONTRACT NO. 60B13

MATERIAL:  
- ASTM A48 CLASS 30 GREY IRON  
- ASTM A123 HOT DIPPED GALVANIZED



ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	1/2\" (19 mm) CLOSE NIPPLE
7	1/2\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	FAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]



REVISIONS		DATE
NAME		

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 1  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE  
HORIZ. NONE  
DATE 1-01-02

DRAWN BY: RWP  
DESIGNED BY: DAD  
CHECKED BY: DAZ  
SHEET 4 OF 4

6/23/2006 c:\projects\traffic\050014\164r\idgand.dgn



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

TEMPORARY SIGNAL SEQUENCE	SIGNAL MODERNIZATION SEQUENCE	SEQUENCE OF OPERATION																														
MOVEMENT	MOVEMENT	1 + 5					1 + 6					2 + 5					2 + 6			3		7										
PHASE INTERVAL	PHASE INTERVAL	1	2	3	4	5	6	7	8A	8B	8A	8B	10	11	12A	12B	13A	13B	14A	14B	15	16A	16B	17	18A	18B	19	20	21A	21B	22A	22B
CHANGE TO PHASE	CHANGE TO PHASE	1+6					2+5					2+6			3		7															
IL 64 E/W THROUGH SIGNAL	IL 64 E/W MID MAST ARM SIGNALS	R	R	R	R	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R
IL 64 E/W LEFT TURN SIGNALS	IL 64 E/W FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R
IL 64 W/B THROUGH SIGNAL	IL 64 W/B MID MAST ARM SIGNALS	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	R	R	R	R	R
IL 64 W/B LEFT TURN SIGNALS	IL 64 W/B END MAST ARM AND FAR LEFT SIGNALS	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	R	R	R	R	R
CORNELL AVE S/W THROUGH SIGNAL	CORNELL AVE S/W MAST ARM AND FAR LEFT SIGNALS	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	R	R	R	R	R
CORNELL AVE S/W NEAR RIGHT AND FAR RIGHT SIGNALS	CORNELL AVE S/W NEAR RIGHT AND FAR RIGHT SIGNALS	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	R	R	R	R	R
CORNELL AVE N/W THROUGH SIGNALS	CORNELL AVE N/W SIGNALS	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	R	R	R	R	R
SERVICE RD SOUTH SIDE E/W & W/B SIGNALS	SERVICE RD SOUTH SIDE E/W & W/B SIGNALS	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	R	R	R	R	R
PEDESTRIAN SIGNALS Y-ING IL 64 E. SIDE OF CORNELL	PEDESTRIAN SIGNALS Y-ING IL 64 E. SIDE OF CORNELL	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

**PROPOSED SCHEDULE OF QUANTITIES:**

FULL-ACTUATED CONTROLLER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1

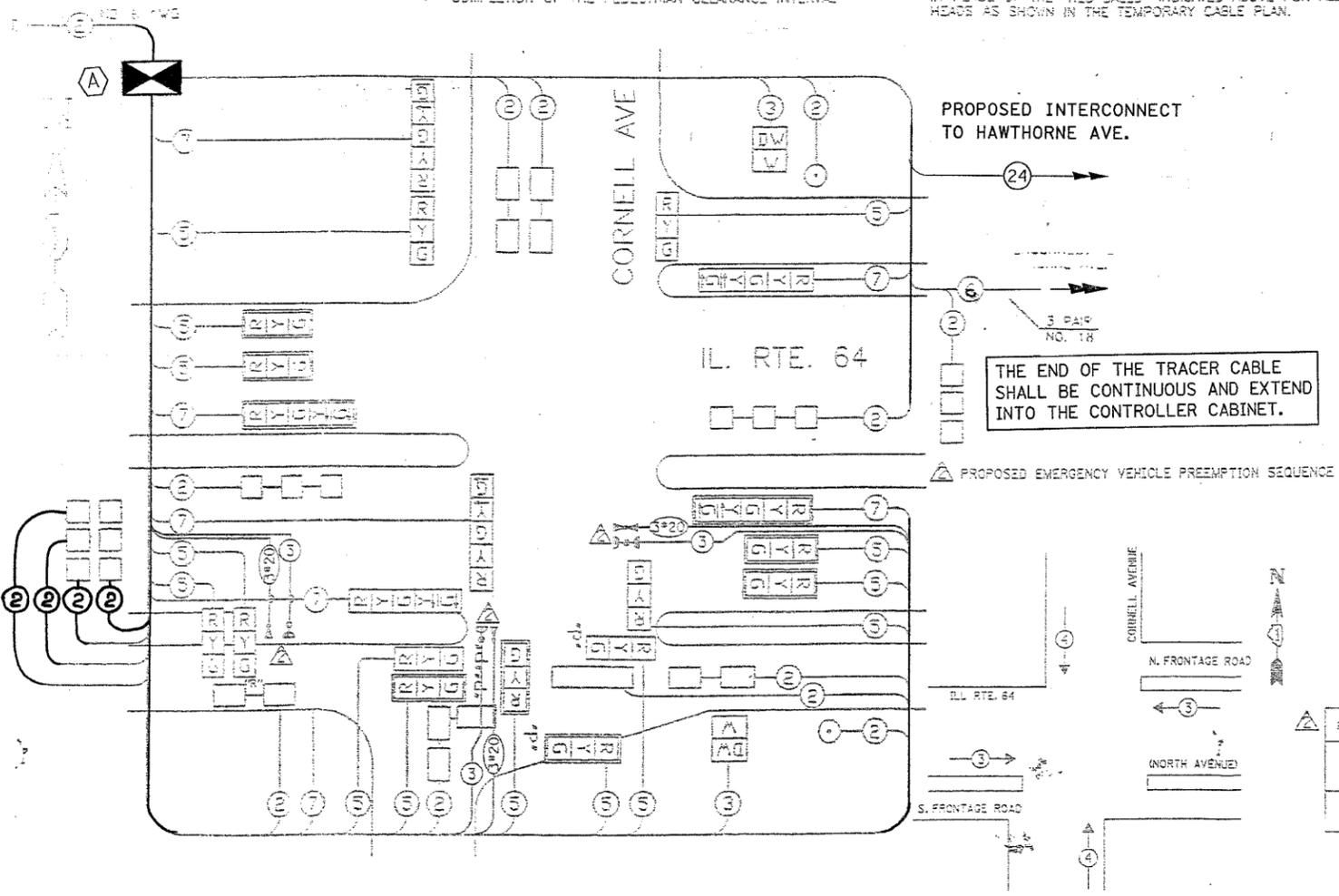
THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER AND CABINET ONLY.

- TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL

NOTE: THE TEMPORARY SIGNAL SEQUENCE SHALL INCORPORATE "RED LEFT" ARROWS IN PLACE OF THE "RED BALLS" INDICATED ABOVE FOR ALL LEFT TURN SIGNAL HEADS AS SHOWN IN THE TEMPORARY CABLE PLAN.

**CABLE PLAN**

- CABLE PLAN LEGEND**
- 6" TRAFFIC SIGNAL SECTION
  - 12" TRAFFIC SIGNAL SECTION
  - 12" PEDESTRIAN SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR, INDUCTION LOOP
  - PUSHBUTTON DETECTOR
  - INDICATES NUMBER OF CONDUCTORS (NEEDS)
  - ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - INDICATES EXISTING CABLE
  - SIGNAL FACE WITH BACKPLATE
  - "P" INDICATES PROGRAMMED
  - EXISTING SIGNAL SECTION
  - MAGNETIC DETECTOR
  - OPTICAL DETECTOR
  - CONFIRMATION BEACON
  - RELOCATED



**SCHEDULE OF QUANTITIES**

TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 30	FOOT	762
ELECTRIC CABLE IN CONDUIT, NO. 20 30, TWISTED, SHIELDED	FOOT	762
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION 6-03-02

MELROSE PARK-SHEET 181 OF 365

CHRISTOPHER S. BURKE ENGINEERING LTD.  
275 West Higgins Road, Suite 200  
Rosemont, Illinois 60018  
631 827-0500

**REVISIONS**

NO.	DATE	DESCRIPTION
1	10-18-03	ISSUE FOR PERMIT
2	10-03-02	ISSUE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
SCHEDULE OF QUANTITIES  
IL. RTE. 64 (NORTH AVENUE)  
AND  
CORNELL AVENUE

SCALE: VERT. NTS  
HORIZ. NTS  
DATE: 6/19/06

DRAWN BY: BCK  
DESIGNED BY: BCK  
CHECKED BY: BCK

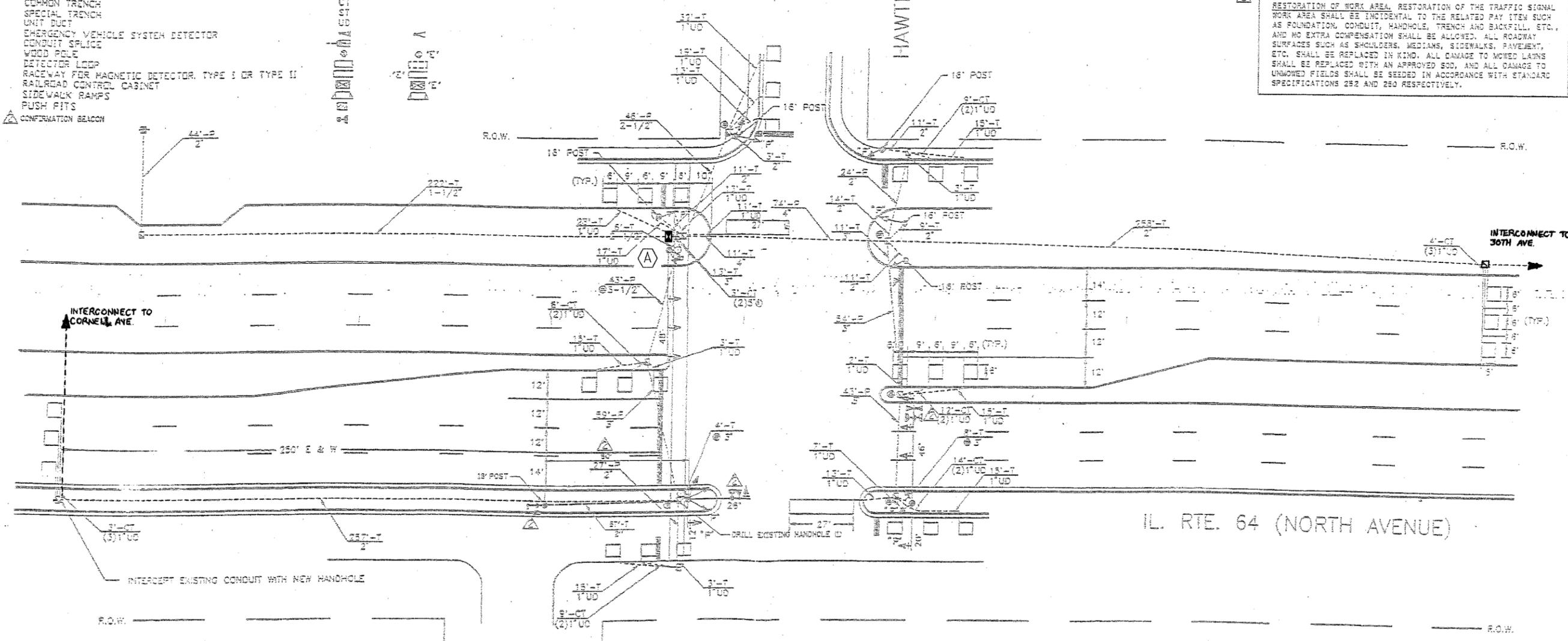
TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60B13				

(A) THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER AND CABINET ONLY.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOVED LAIRNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 282 AND 280 RESPECTIVELY.



- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD OPTICALLY PROGRAMMED
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- COMMON TRENCH
- SPECIAL TRENCH
- UNIT DUCT
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONDUIT SPLICE
- WOOD POLE
- DETECTOR LOOP
- ROADWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- RAILROAD CONTROL CABINET
- SIDEWALK RAMPS
- PUSH FITS
- CONFIRMATION BEACON

IL. RTE. 64 (NORTH AVENUE)

*[Handwritten Signature]*

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
6-03-02  
MELROSE PARK-SHEET 184 OF 365  
CHRISTOPHER S. BURKE ENGINEERING LTD.  
875 East Higgins Road, Suite 600  
Naperville, Illinois 60563  
(630) 341-2600

REVISIONS	
NO.	DATE
1	14-8-03
2	18-02-03

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SIGNAL MODIFICATION  
AND REMOVAL PLAN  
IL. RTE. 64 (NORTH AVENUE)  
AND  
HAWTHORNE AVENUE  
SCALE: VERT. NTS  
HORIZ. 1"=40'  
DATE 6/19/06  
DRAWN BY BCK  
DESIGNED BY BCK  
CHECKED BY DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

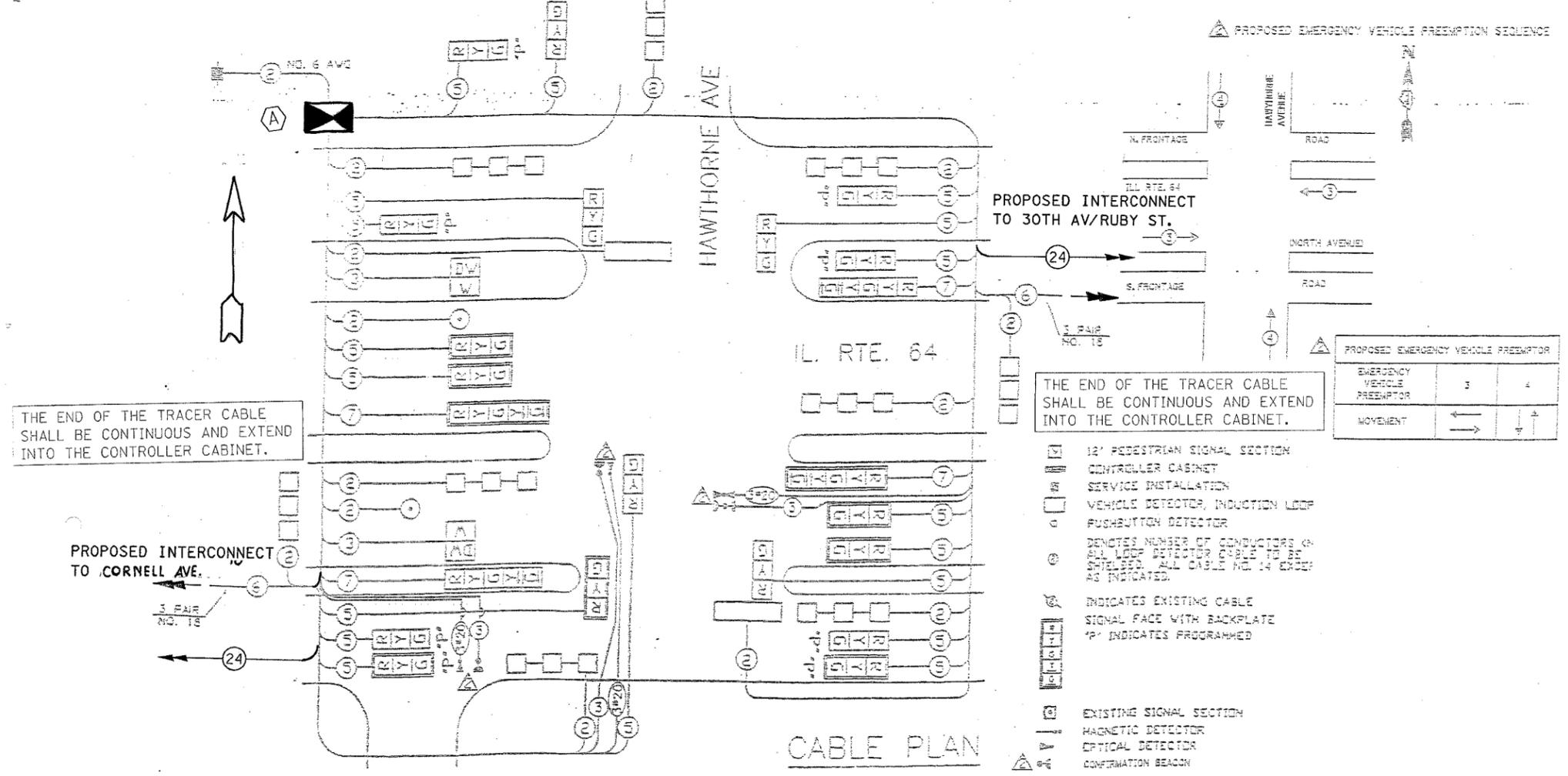
TEMPORARY SIGNAL SEQUENCE	SIGNAL MODERNIZATION SEQUENCE	SEQUENCE OF OPERATION																												
MOVEMENT	MOVEMENT	1 + 5					2 + 5					1 + 6					2 + 6					7								
PHASE INTERVAL	PHASE INTERVAL	1	2	3	4	5	6A	6B	7	8A	8B	9	10A	10B	11	12A	12B	13	14A	14B	15	16A	16B	17	18A	18B	19	20	21A	21B
CHANGE TO PHASE	CHANGE TO PHASE	1+5					2+5					1+6					2+6					7								
IL 64 E/W THROUGH SIGNAL	IL 64 E/W MID MAST ARM SIGNALS	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R		
IL 64 E/W LEFT TURN SIGNALS	IL 64 E/W FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R		
IL 64 W/B THROUGH SIGNAL SIGNALS	IL 64 W/B MID MAST ARM SIGNALS	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R		
IL 64 W/B LEFT TURN SIGNALS	IL 64 W/B FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R		
HAWTHORNE AVE SIGNALS N/S AND S/S	HAWTHORNE AVE SIGNALS N/S AND S/S	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		
SERVICE ROAD NORTH SIDE W/S & W/B	SERVICE ROAD NORTH SIDE W/S & W/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		
SERVICE ROAD SOUTH SIDE W/S & W/B	SERVICE ROAD SOUTH SIDE W/S & W/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		
N/A	PEDESTRIAN SIGNALS X-RHC IL 64 WEST SIDE OF HAWTHORNE	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV		

**PROPOSED SCHEDULE OF QUANTITIES**

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	11

TO APPEAR ONLY UPON PUSHBUTTON ACTUATION  
 FLASHING 'WALK' WALK IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL  
 NOTE: THE TEMPORARY SIGNAL SEQUENCE SHALL INCORPORATE 'RED LEFT' ARROWS IN PLACE OF 'RED BALLS' INDICATED ABOVE FOR ALL LEFT TURN SIGNAL HEADS AS SHOWN IN THE TEMPORARY CABLE PLAN

THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER AND CABINET ONLY.



INSTALLATION OF EMERGENCY VEHICLE PREEMPTION 8-03-00  
 MELROSE PARK-SHEET 155 OF 365  
 CHRISTOPHER B. BURKE ENGINEERING LTD.  
 2711 West Higgins Avenue, Suite 400  
 Melrose Park, Illinois 60166  
 (630) 231-0500

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 SCHEDULE OF QUANTITIES  
 IL. RTE. 64 (NORTH AVENUE)  
 AND  
 HAWTHORNE AVENUE

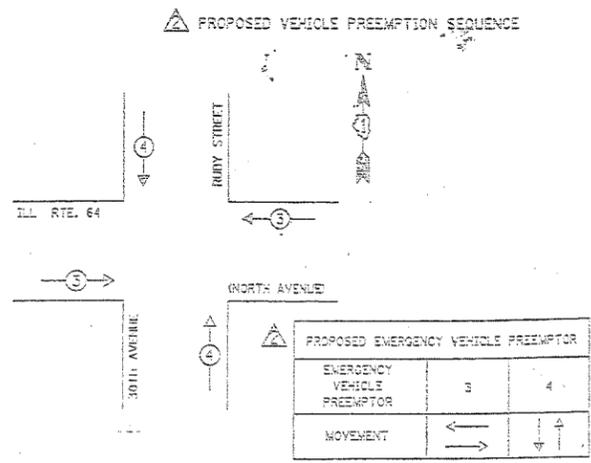
SCALE: VERT. NTS  
 HORIZ. 1"=40'  
 DATE 6/19/06

DRAWN BY BCK  
 DESIGNED BY BCK  
 CHECKED BY BCK



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

A THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.



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

EACH 1  
EACH 1

PROPOSED INTERCONNECT TO HAWTHORNE AV.

PROPOSED INTERCONNECT TO 25TH AV.

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

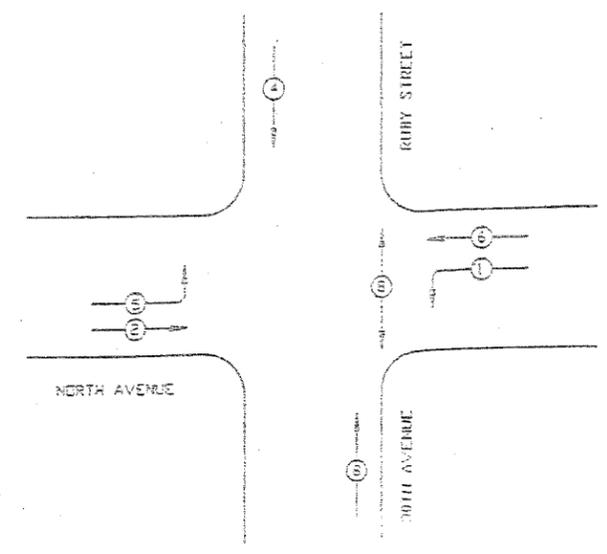
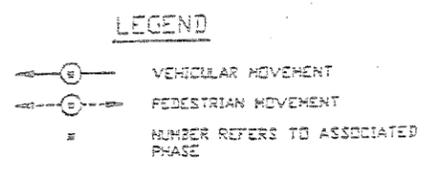
PROPOSED SCHEDULE OF QUANTITIES

FULL-ACTUATED CONTROLLER  
TRANSCIEVER - FIBER OPTIC

CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393-L THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

PHASE DESIGNATION DIAGRAM



CABLE PLAN

- CABLE PLAN LEGEND
- 8' TRAFFIC SIGNAL SECTION
  - 12' TRAFFIC SIGNAL SECTION
  - 12' PEDESTRIAN SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR INDUCTION LOOP
  - PUSHBUTTON DETECTOR
  - INDICATES NUMBER OF CONDUCTORS (NEW)
  - ALL LOOP DETECTOR CABLE TO BE SHIELDED, ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - INDICATES EXISTING CABLE
  - SIGNAL FACE WITH BACKPLATE
  - "P" INDICATES PROGRAMMED
  - EXISTING SIGNAL SECTION
  - MAGNETIC DETECTOR
  - OPTICAL DETECTOR
  - CONFIRMATION BEACON
  - RELOCATED

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
6-02-02  
MELROSE PARK-SHEET 161 OF 365  
CHRISTOPHER E. BURKE ENGINEERING LTD.  
175 West Maple Road, Suite 400  
Naperville, Illinois 60563  
(630) 833-0800

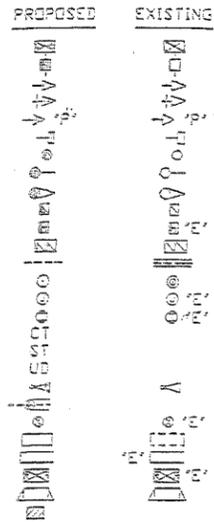
ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
SCHEDULE OF QUANTITIES  
IL. RTE. 64 (NORTH AVENUE)  
AND  
30TH AVENUE/ RUBY STREET

SCALE: VERT. NTS  
HORIZ.  
DATE 6/19/06  
DRAWN BY BCK  
DESIGNED BY BCK  
CHECKED BY JDP

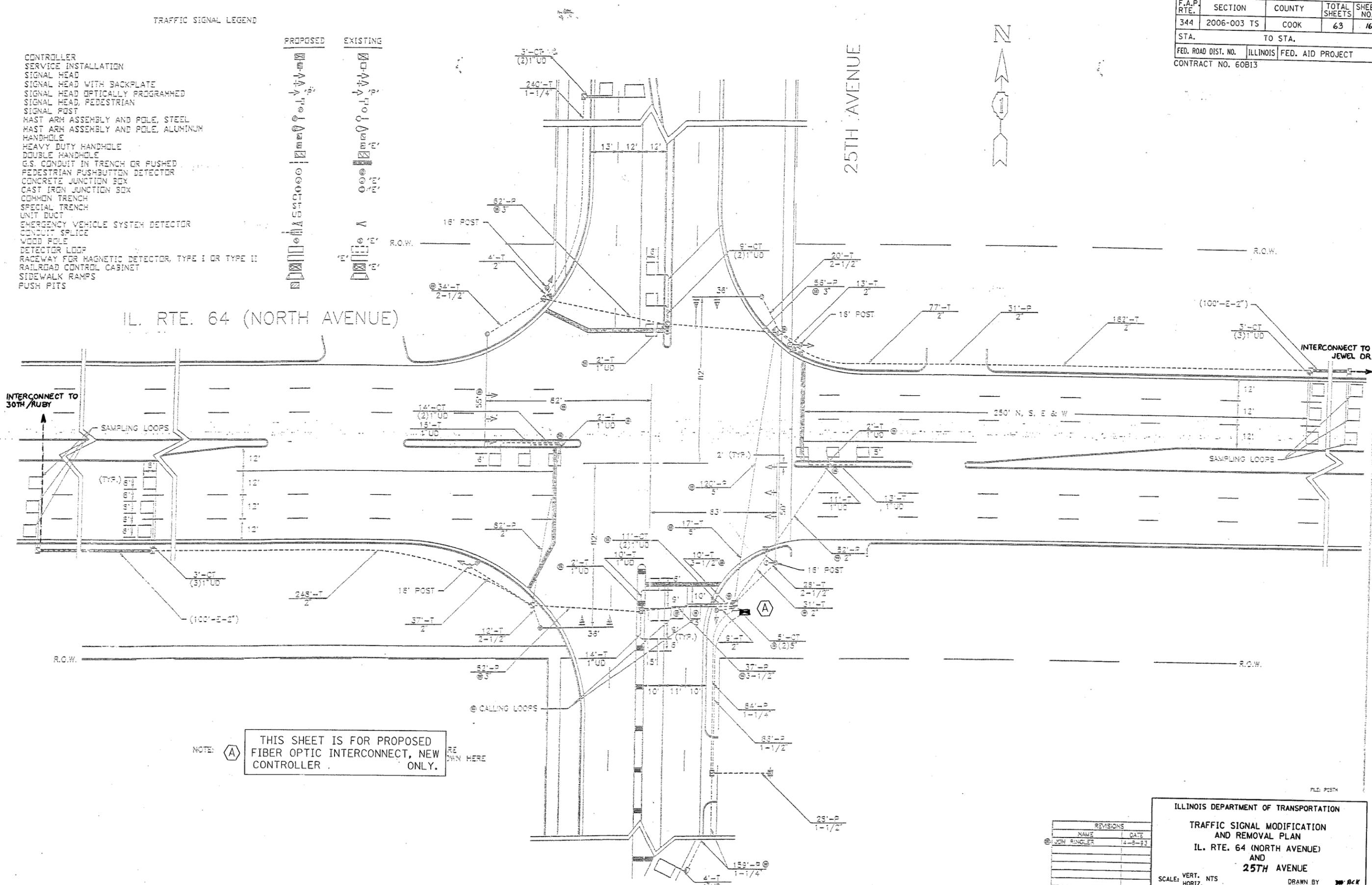
REVISIONS	
NO.	DATE
1	4-5-03
2	6-03-02

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD OPTICALLY PROGRAMMED
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- COMMON TRENCH
- SPECIAL TRENCH
- UNIT DUCT
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONDUIT SPLICE
- WOOD POLE
- DETECTOR LOOP
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- RAILROAD CONTROL CABINET
- SIDEWALK RAMPS
- PUSH PITS

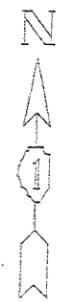


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				



IL. RTE. 64 (NORTH AVENUE)

25TH AVENUE



INTERCONNECT TO 30TH / RUBY

INTERCONNECT TO JEWEL DR

NOTE: (A) THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER. RE DOWN HERE

REVISIONS	
NAME	DATE
JEN SINGLER	14-8-23

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN

IL. RTE. 64 (NORTH AVENUE) AND 25TH AVENUE

SCALE: VERT. NTS  
HORIZ. 1"=40'  
DATE 6/19/06

DRAWN BY: BCK  
DESIGNED BY: BCK  
CHECKED BY: BCK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60813				

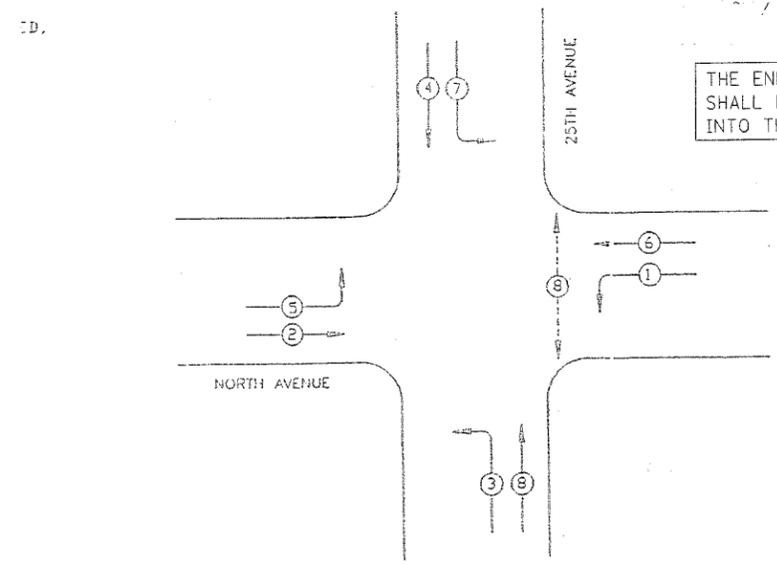
(A) THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.

**PROPOSED SCHEDULE OF QUANTITIES**

FULL-ACTUATED CONTROLLER  
TRANSCEIVER - FIBER OPTIC

EACH 1  
EACH 1

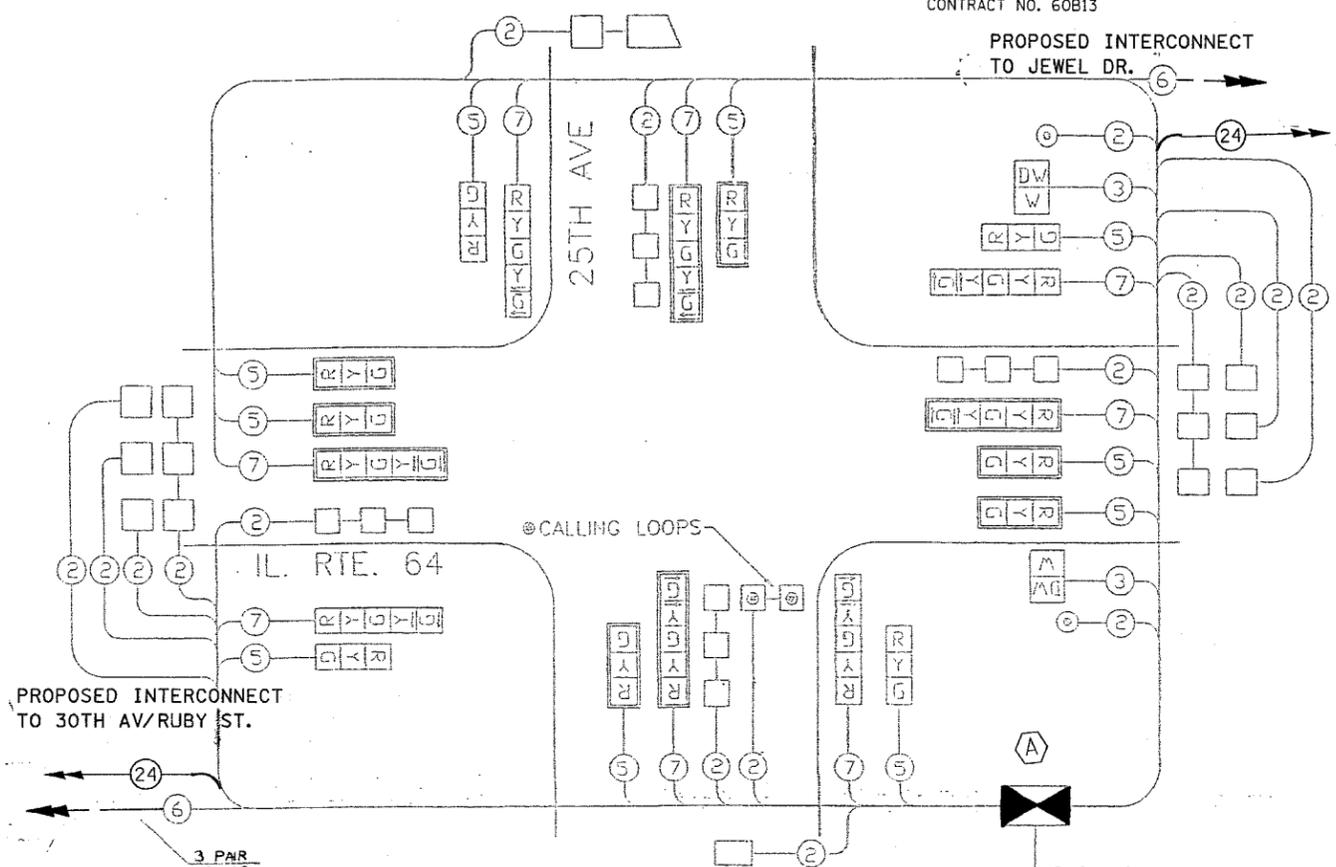
**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

**LEGEND**

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE



**CABLE PLAN**

- CABLE PLAN LEGEND**
- 8" TRAFFIC SIGNAL SECTION
  - 12" TRAFFIC SIGNAL SECTION
  - 12" PEDESTRIAN SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR, INDUCTION LOOP
  - PUSHBUTTON DETECTOR
  - DENOTES NUMBER OF CONDUCTORS (NEV), ALL LOOP DETECTOR CABLE TO BE SHIELDED, ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - INDICATES EXISTING CABLE
  - SIGNAL FACE WITH BACKPLATE
  - \*P\* INDICATES PROGRAMMED
  - EXISTING SIGNAL SECTION
  - MAGNETIC DETECTOR
  - OPTICAL DETECTOR

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

REVISIONS	
NO.	DATE
1	6-8-06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 SCHEDULE OF QUANTITIES**  
 IL. RTE. 64 (NORTH AVENUE)  
 AND  
 25TH AVENUE

SCALE: VERT. NTS  
 HORIZ. NTS  
 DATE 6/19/06

DRAWN BY GCK  
 DESIGNED BY GCK  
 CHECKED BY JJJ

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

**CONSTRUCTION NOTE:**

1 REMOVE EXISTING 18' TRAFFIC SIGNAL POST, INSTALL NEW 12' TRAFFIC SIGNAL POST ON EXISTING FOUNDATION AND RELOCATE EXISTING TRAFFIC SIGNAL HEAD, 3-FACE, 2-FACE, 3-SECTION AND 1-FACE, 5-SECTION TO NEW POST, REUSE EXISTING CABLES. INSTALL NEW LIGHT DETECTOR ON NEW POST AND INSTALL NEW NO. 20 3/C AND NO. 14 3/C CABLES.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, EACH 1

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.

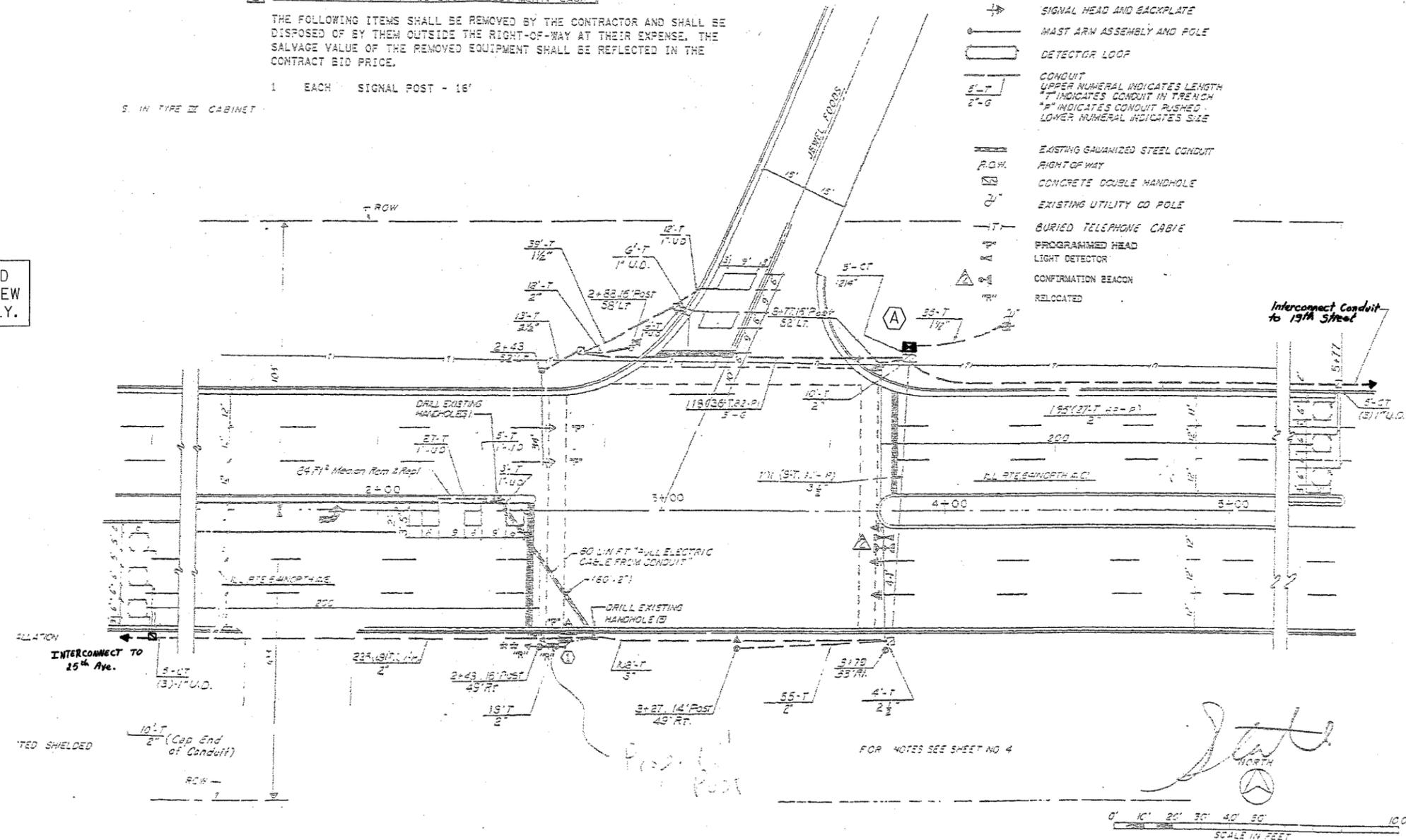
1 EACH SIGNAL POST - 18'

5. IN TYPE III CABINET

**LEGEND**

	EXISTING HANDHOLE
	SERVICE INSTALLATION
	CONCRETE HANDHOLE
	CONTROLLER CABINET
	SIGNAL HEAD AND POST
	SIGNAL HEAD AND BACKPLATE
	MAST ARM ASSEMBLY AND POLE
	DETECTOR LOOP
	CONDUIT
	UPPER NUMERAL INDICATES LENGTH " INDICATES CONDUIT IN TRENCH
	" INDICATES CONDUIT PUSHED
	LOWER NUMERAL INDICATES SIDE
	EXISTING GALVANIZED STEEL CONDUIT
	R.O.W.
	CONCRETE DOUBLE HANDHOLE
	EXISTING UTILITY POLE
	BURIED TELEPHONE CABLE
	PROGRAMMED HEAD
	LIGHT DETECTOR
	CONFIRMATION BEACON
	RELOCATED

**A THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.**



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
6-03-02  
MELROSE PARK-SHEET 186 OF 365  
CHRISTOPHER S. BURKE ENGINEERING LTD.  
2875 West Higgins Road, Suite 500  
Rosemont, Illinois 60018  
(630) 522-0800

75# 10915

REVISIONS	
NAME	DATE
BCP-ENG-ADD	2-3-99
EE NEAR RIGHT	
3-SECTION SIGNAL	
HEAD	
CSSEL	6-03-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN**

IL. RTE. 64 (NORTH AVENUE) AND JEWEL DR.

SCALE: VERT. NTS  
HORIZ. 1"=40'  
DATE 6/19/06

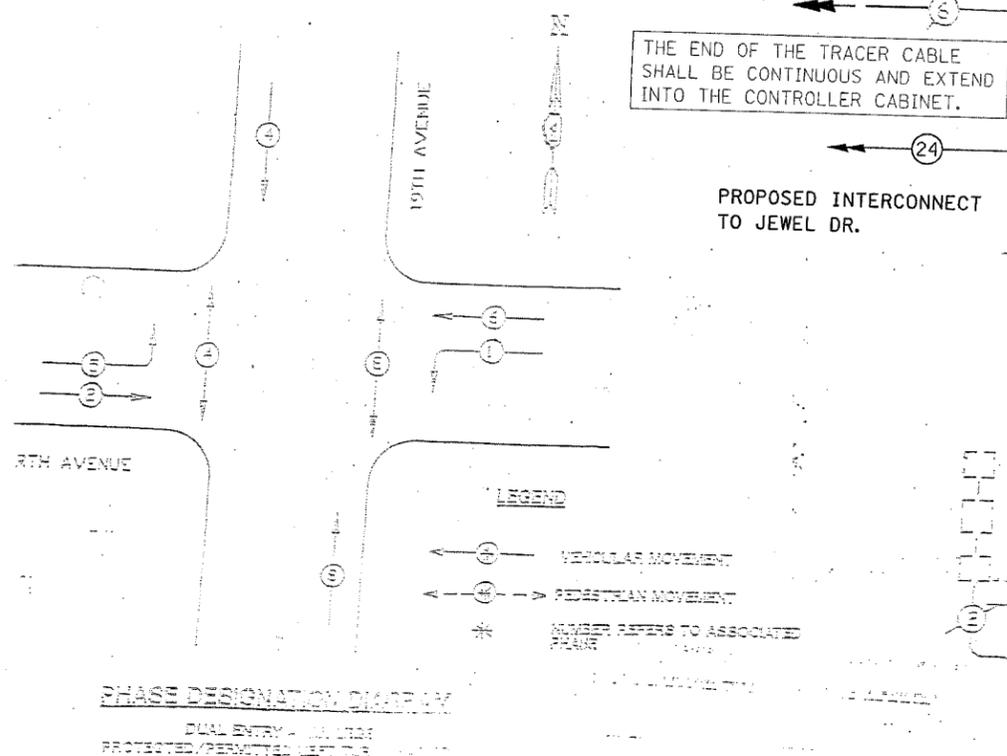
DRAWN BY BCK  
DESIGNED BY BCK  
CHECKED BY DDB





# EXISTING AND PROPOSED CONTROLLER SEQUENCE IV

ERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



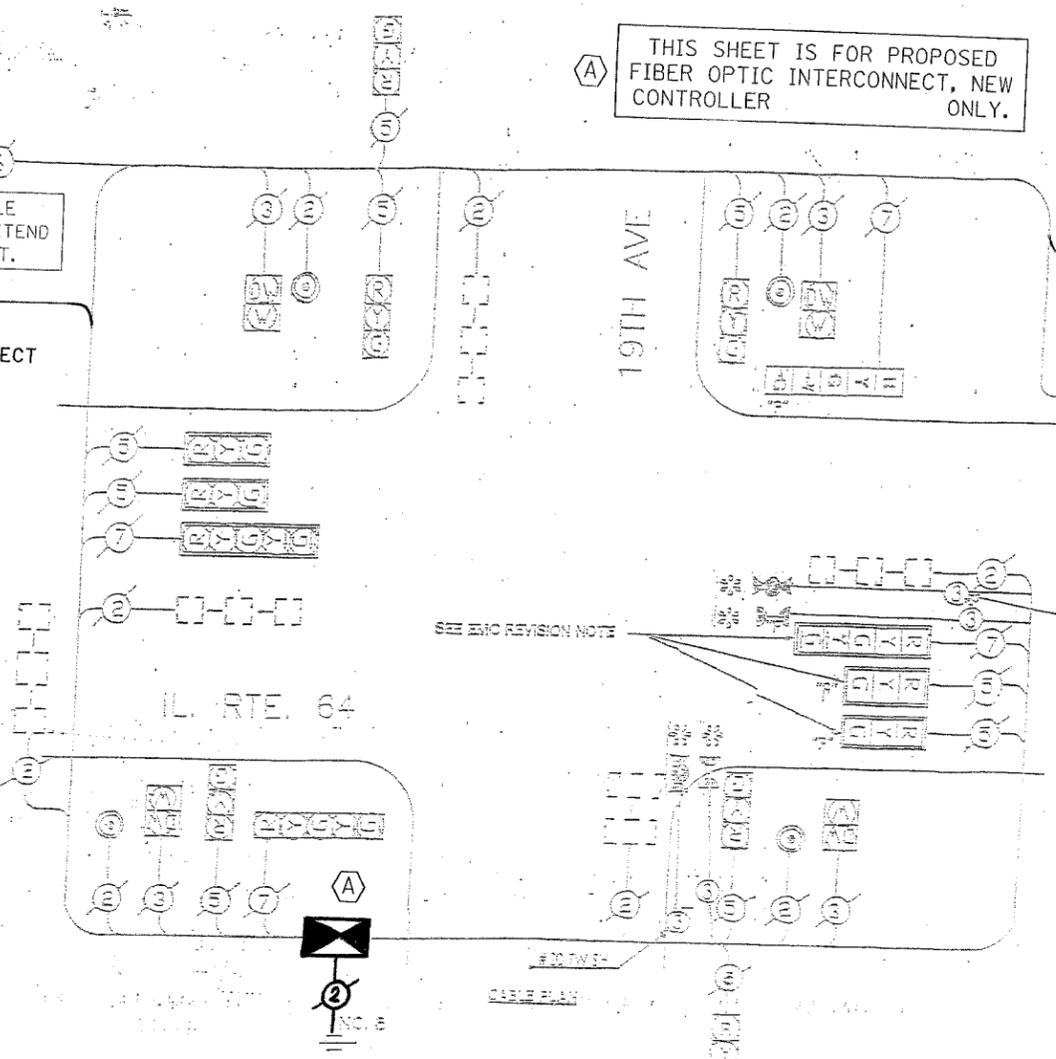
THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.

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

PROPOSED INTERCONNECT TO JEWEL DR.

PROPOSED INTERCONNECT TO 15TH AV.

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60813				

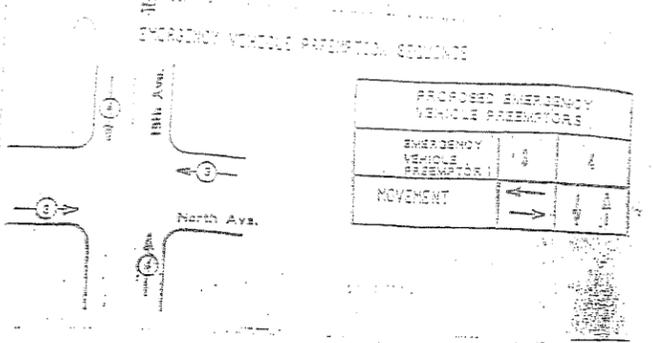
- CABLE PLAN LEGEND**
- TRAFFIC SIGNAL SECTION
  - PEDESTRIAN SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR INDUCTION LOOP
  - MAGNETIC DETECTOR
  - PEDESTRIAN DETECTOR
  - NUMBER OF CONDUCTORS
  - ALL CABLE NO. 14 EXCEPT AS INDICATED
  - ALL LOOP DETECTOR CABLE TO BE SHIELDING
  - SIGNAL FACE WITH BACKPLATE
  - TV DENOTES PROGRAMMED HEAD
  - Emergency Vehicle Light Detector
  - CONFIRMATION SECTION

## PROPOSED SCHEDULE OF QUANTITIES

FULL-ACTUATED CONTROLLER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1

EMC REVISION

THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT



REVISIONS

NO.	REVISIONS

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 SCHEDULE OF QUANTITIES  
 IL. RTE. 64 (NORTH AVENUE)  
 AND  
 19TH AVENUE/ BROADWAY STREET

SCALE: VERT. NTS  
 HORIZ. 1"=40'  
 DATE 6/19/06

DRAWN BY: Bck  
 DESIGNED BY: Bck  
 CHECKED BY: D.P.

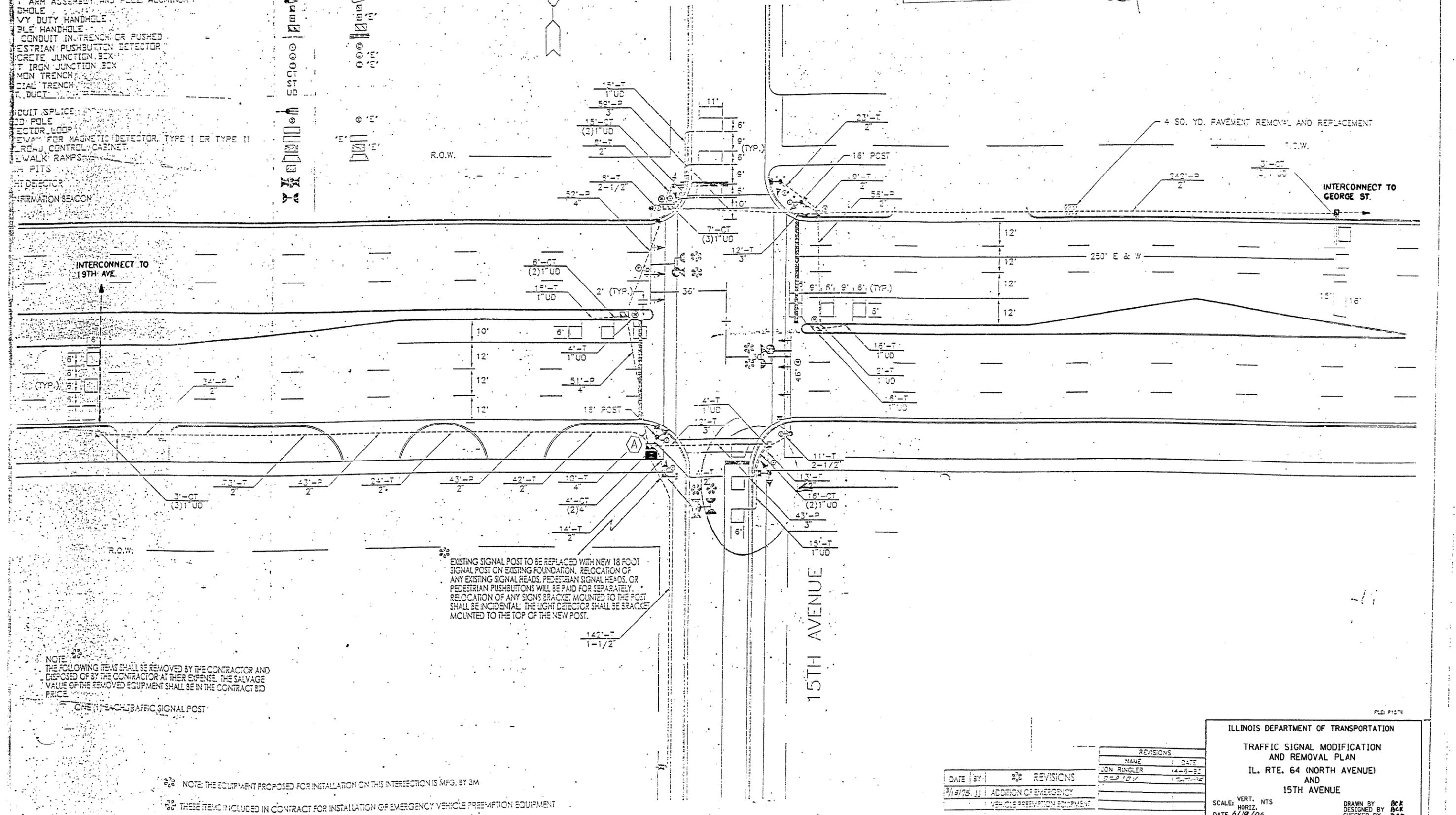
Revised by Primer Electric, Inc. D-0084-b

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	22
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60B13				

PROPOSED	EXISTING

(A) THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.

Quantities  
top 155 LF



NOTE: THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY THE CONTRACTOR AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE IN THE CONTRACT BID PRICE.

ONE (1) EACH TRAFFIC SIGNAL POST

NOTE: THE EQUIPMENT PROPOSED FOR INSTALLATION ON THIS INTERSECTION IS MFG. BY 3M

THESE ITEMS INCLUDED IN CONTRACT FOR INSTALLATION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT

DATE	BY	REVISIONS
2/19/05	JJ	ADDITION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT

REVISIONS	
NAME	DATE
JON RINGLER	11-2-03
DDV	12-7-04

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN

IL. RTE. 64 (NORTH AVENUE) AND 15TH AVENUE

SCALE: VERT. NTS  
HORIZ. DATE 6/19/06

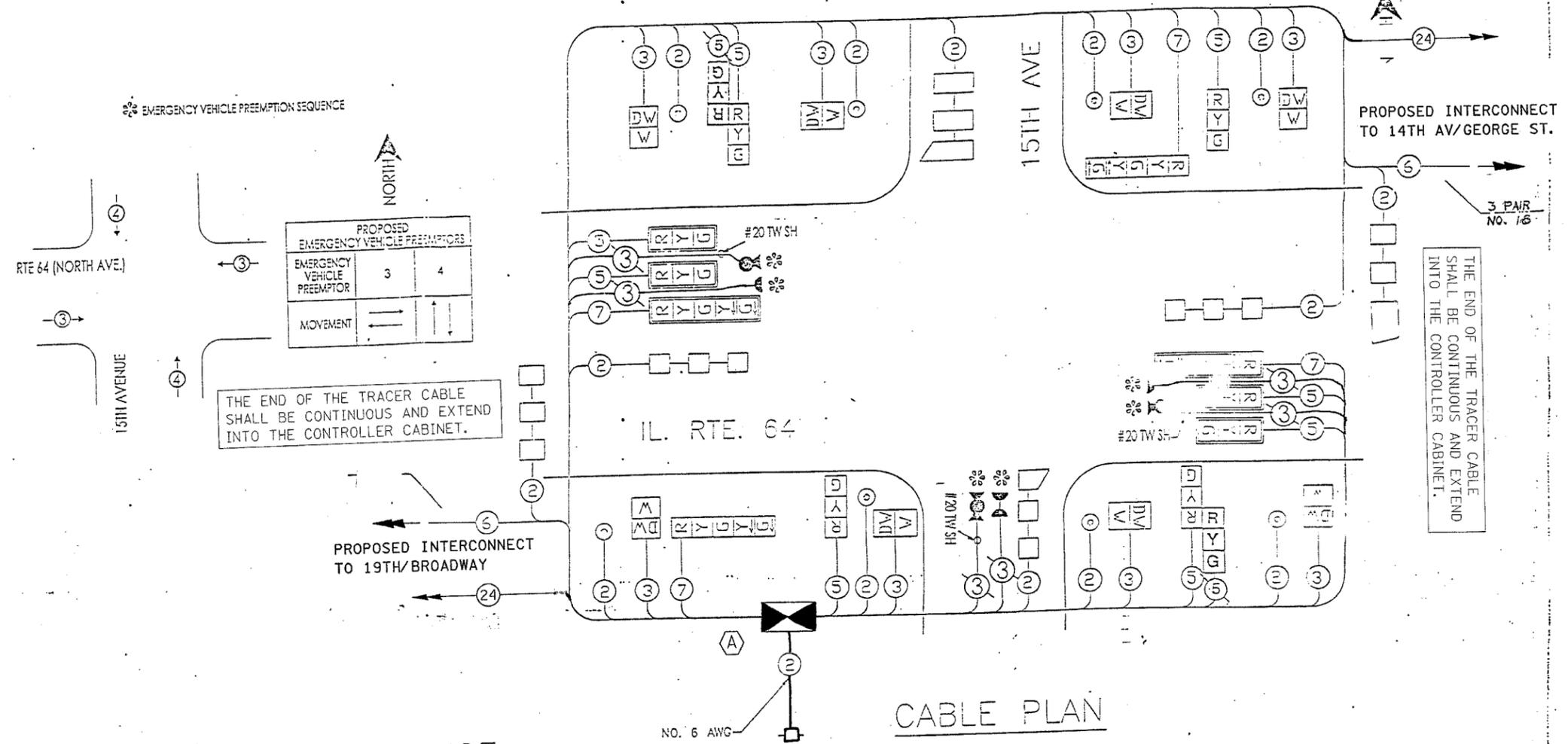
DRAWN BY: BCK  
DESIGNED BY: BCK  
CHECKED BY: DDD

### PROPOSED SCHEDULE OF QUANTITIES

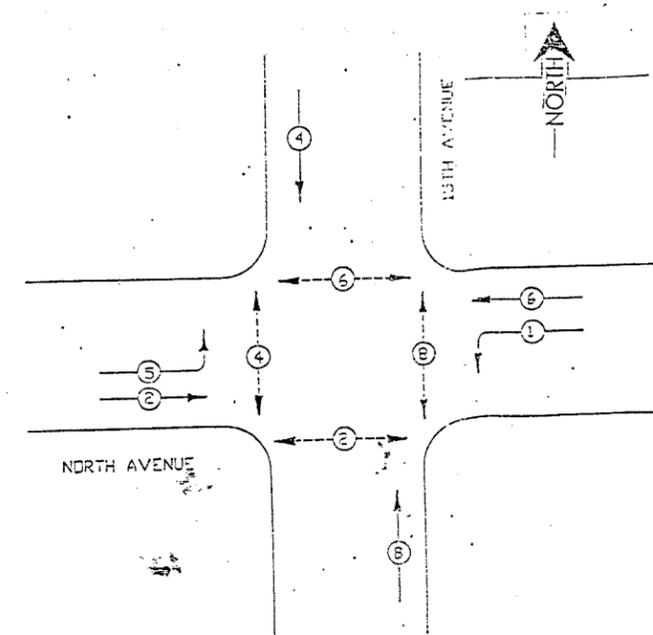
FULL-ACTUATED CONTROLLER  
TRANSCEIVER - FIBER OPTIC

EACH 1  
EACH 1

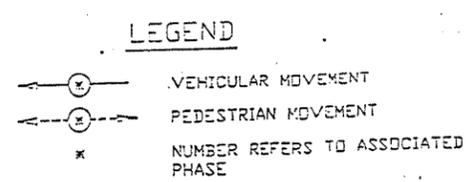
A THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.



### CONTROLLER SEQUENCE



### PHASE DESIGNATION DIAGRAM



### CABLE PLAN

- PROPOSED EXISTING CABLE PLAN LEGEND**
- 8" TRAFFIC SIGNAL SECTION
  - 12" TRAFFIC SIGNAL SECTION
  - 12" PEDESTRIAN SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR, INDUCTION LOOP
  - PUSHBUTTON DETECTOR
  - DENOTES NUMBER OF CONDUCTORS (NEW), ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - INDICATES EXISTING CABLE
  - SIGNAL FACE WITH BACKPLATE
  - "P" INDICATES PROGRAMMED
  - EXISTING SIGNAL SECTION
  - MAGNETIC DETECTOR
  - LIGHT DETECTOR
  - CONFIRMATION BEACON

DATE	BY	REVISIONS
7/18/06	JJ	ADDITION OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT

REVISIONS	
NAME	DATE
DCP/BY	17-16-95

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
SCHEDULE OF QUANTITIES  
IL. RTE. 64 (NORTH AVENUE)  
AND  
15TH AVENUE

SCALE: VERT. NTS  
HORIZ. NTS  
DATE 6/19/06

DRAWN BY BCK  
DESIGNED BY BCK  
CHECKED BY JAP

NOTE: THE EQUIPMENT PROPOSED FOR INSTALLATION ON THIS INTERSECTION IS MFG. BY 3M

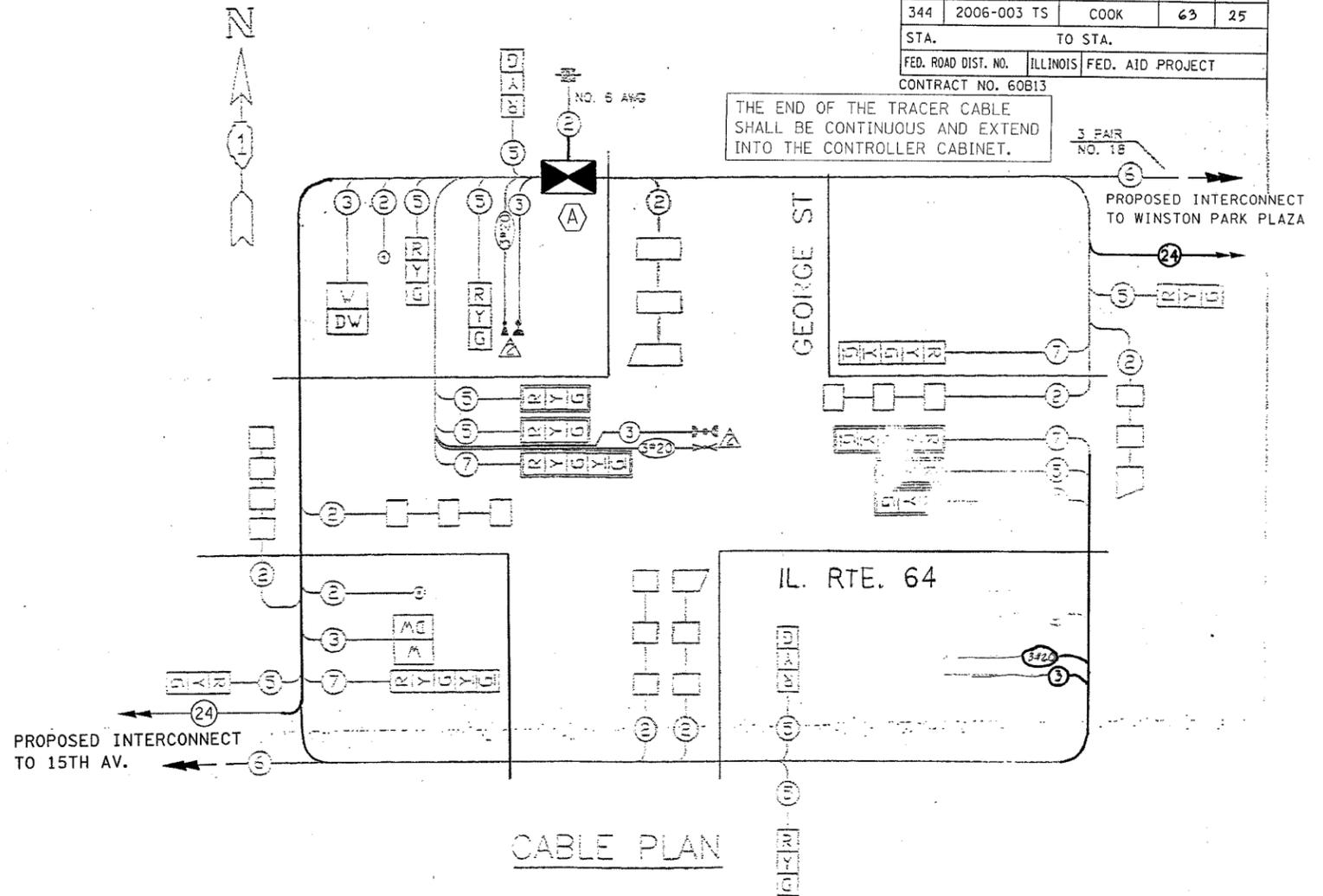


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

**PROPOSED SCHEDULE OF QUANTITIES**

FULL-ACTUATED CONTROLLER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1

(A) THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.



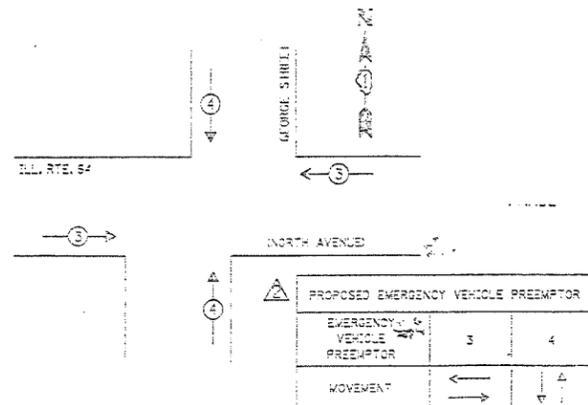
**TECH CONTROLLER SEQUENCE IV**

REFERRING TO STANDARD 2093-1, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

**PHASE DESIGNATION DIAGRAM**

**LEGEND**

- ← (1) → VEHICULAR MOVEMENT
- ← (2) → PEDESTRIAN MOVEMENT
- 1 NUMBER REFERS TO ASSOCIATED PHASE
- ▲ PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



- CABLE PLAN LEGEND**
- 8' TRAFFIC SIGNAL SECTION
  - 12' TRAFFIC SIGNAL SECTION
  - 12' PEDESTRIAN SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR, INDUCTION LOOP
  - PUSHBUTTON DETECTOR
  - INDICATES NUMBER OF CONDUCTORS KNOWN
  - ALL LOOP DETECTOR CABLE TO BE SHIELDED, ALL CABLE NO. 14 EXCEPT AS INDICATED.
  - INDICATED EXISTING CABLE
  - SIGNAL FACE WITH BACKPLATE
  - \* INDICATES PROGRAMMED
  - EXISTING SIGNAL SECTION
  - MAGNETIC DETECTOR
  - OPTICAL DETECTOR
  - CONFIRMATION SECTION

**SCHEDULE OF QUANTITIES**

TRAFFIC CONTROL AND PROTECTION, STANDARD 20101	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 30	FOOT	656
ELECTRIC CABLE IN CONDUIT NO. 20 30, TWISTED, SHIELDED	FOOT	656
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	1
LIGHT DETECTOR AMPLIFIER	EACH	1

REVISIONS	
NO.	DATE
1	12-5-03
2	12-03-02

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
6-03-02  
MELROSE PARK-SHEET 153 OF 365

CHRISTOPHER E. BURKE ENGINEERING LTD.  
875 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 921-0020

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
SCHEDULE OF QUANTITIES  
IL. RTE. 64 (NORTH AVENUE)  
AND  
14TH AVENUE/ GEORGE STREET

SCALE: VERT. NTS  
HORIZ. 1"=40'  
DATE 6/19/06

DRAWN BY acw  
DESIGNED BY bck  
CHECKED BY ddb

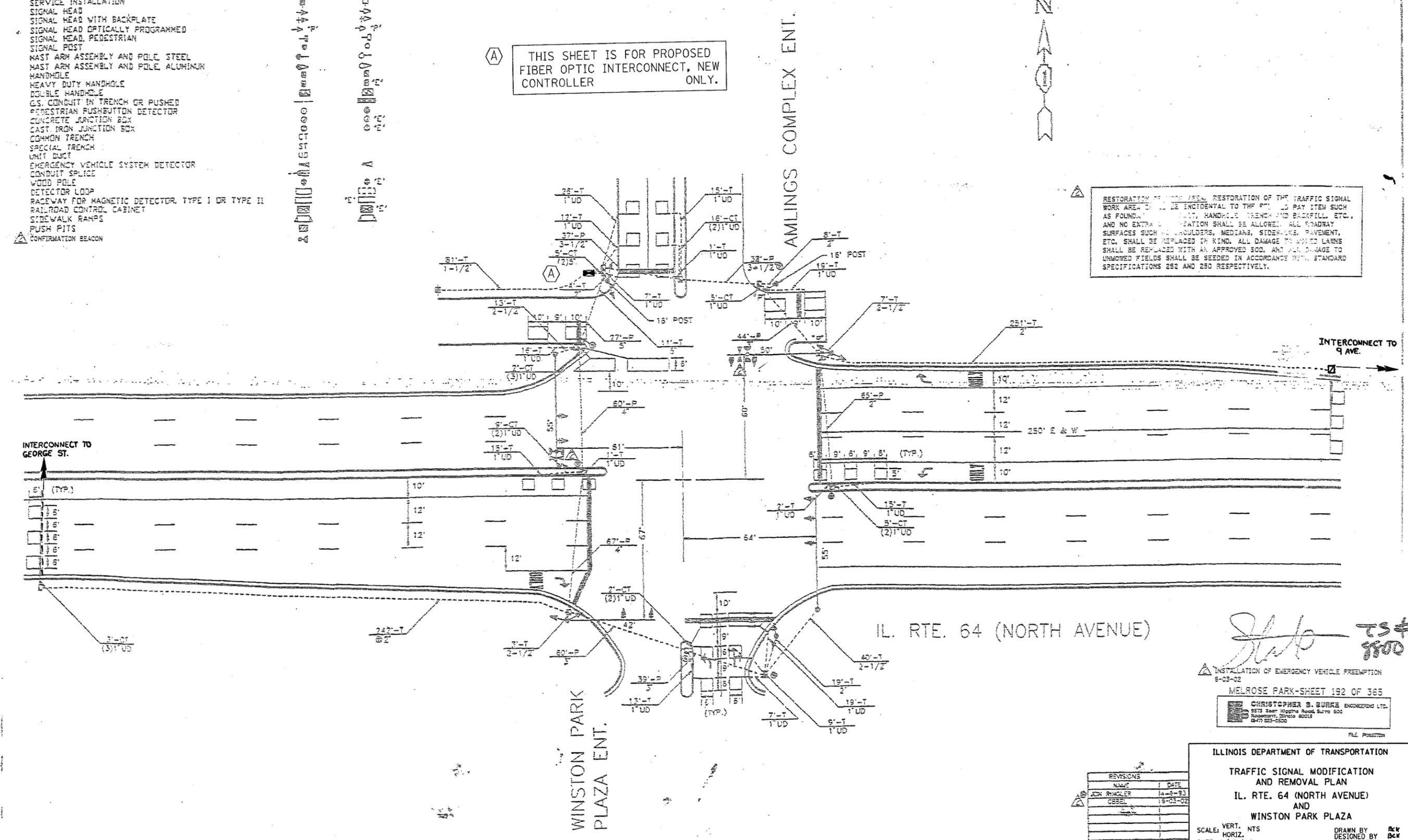
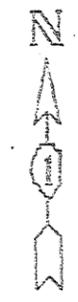
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

TRAFFIC SIGNAL LEGEND

- |  |          |          |
|--|----------|----------|
|  | PROPOSED | EXISTING |
| CONTROLLER                                       |          |          |
| SERVICE INSTALLATION                             |          |          |
| SIGNAL HEAD                                      |          |          |
| SIGNAL HEAD WITH BACKPLATE                       |          |          |
| SIGNAL HEAD OPTICALLY PROGRAMMED                 |          |          |
| SIGNAL HEAD, PEDESTRIAN                          |          |          |
| SIGNAL POST                                      |          |          |
| MAST ARM ASSEMBLY AND POLE, STEEL                |          |          |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM             |          |          |
| HANDHOLE   |          |          |
| HEAVY DUTY HANDHOLE                              |          |          |
| DOUBLE HANDHOLE                                  |          |          |
| C.S. CONDUIT IN TRENCH OR PUSHED                 |          |          |
| PEDESTRIAN PUSHBUTTON DETECTOR                   |          |          |
| CONCRETE JUNCTION BOX                            |          |          |
| CAST IRON JUNCTION BOX                           |          |          |
| COMMON TRENCH                                    |          |          |
| SPECIAL TRENCH                                   |          |          |
| UNIT DUCT  |          |          |
| EMERGENCY VEHICLE SYSTEM DETECTOR                |          |          |
| CONDUIT SPLICE                                   |          |          |
| WOOD POLE  |          |          |
| DETECTOR LOOP                                    |          |          |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II |          |          |
| RAILROAD CONTROL CABINET                         |          |          |
| SIDEWALK RAMPS                                   |          |          |
| PUSH PITS  |          |          |
| CONFIRMATION BEACON                              |          |          |

(A) THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE PROPOSED PAY ITEM SUCH AS FOUNDATION, CURB, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO WORKED LARNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNWORKED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 282 AND 280 RESPECTIVELY.



INTERCONNECT TO GEORGE ST.

INTERCONNECT TO 9 AVE.

IL. RTE. 64 (NORTH AVENUE)

WINSTON PARK PLAZA ENT.

AMLINGS COMPLEX ENT.

*Handwritten signature*  
TS# 8800

INSTALLATION OF EMERGENCY VEHICLE FREEMPTION  
6-03-02  
MELROSE PARK-SHEET 192 OF 365  
CHRISTOPHER S. SURRA ENGINEERING LTD.  
875 East Higgins Road, Suite 500  
Rosemont, Illinois 60018  
630-583-5500

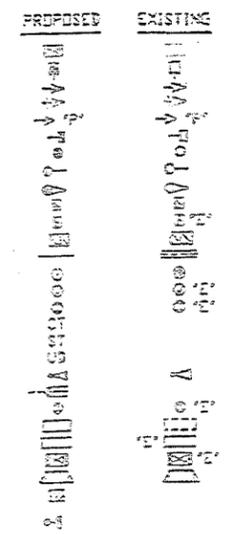
REVISIONS	DATE
JOHN RINGLER	14-8-93
CESEL	18-03-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN  
IL. RTE. 64 (NORTH AVENUE) AND WINSTON PARK PLAZA  
SCALE: VERT. NTS  
DATE 6/19/06  
DRAWN BY: *SK*  
DESIGNED BY: *SK*  
CHECKED BY: *SK*

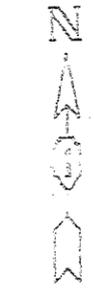


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

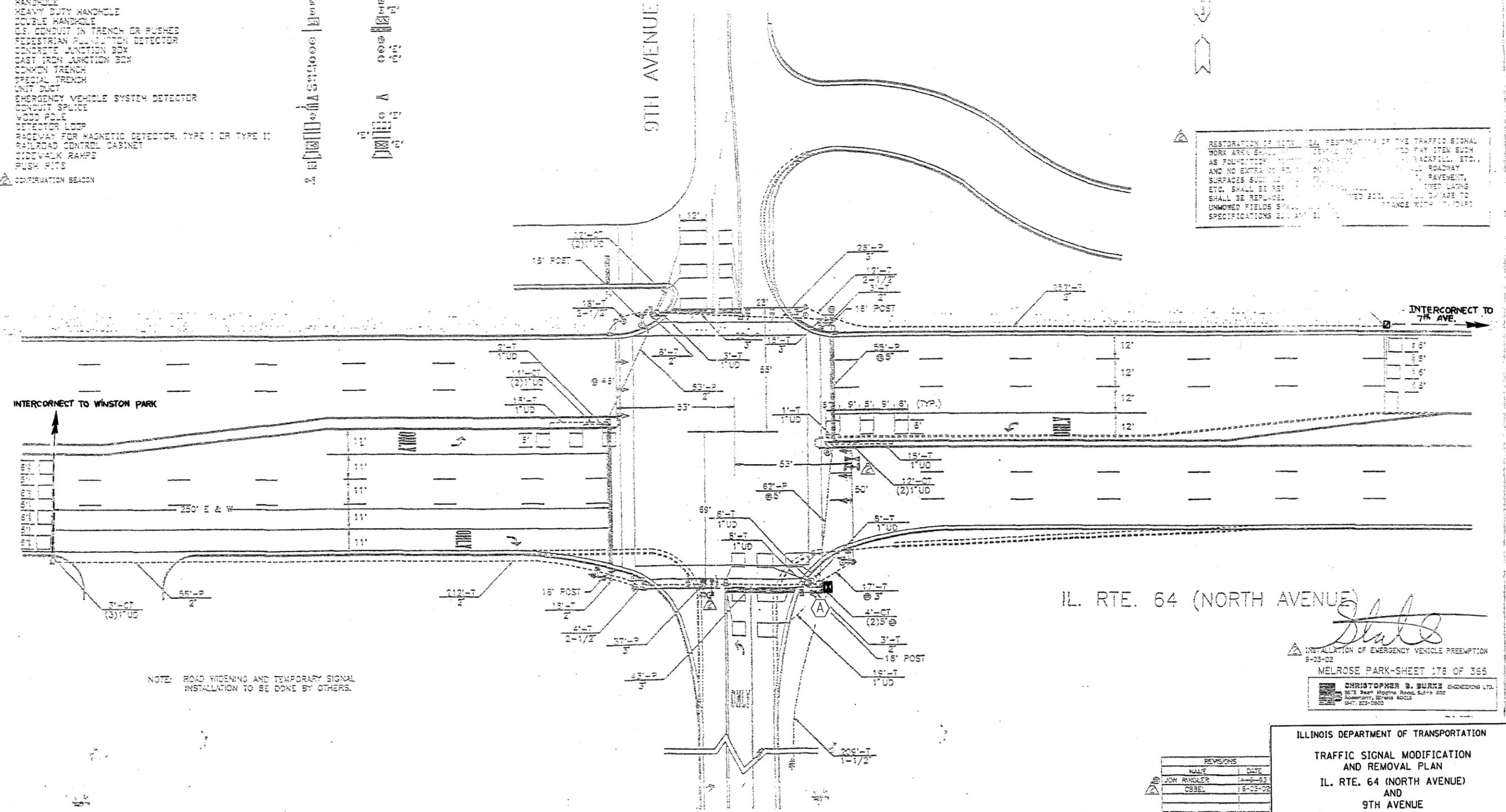
- CONTROLLER  
SERVICE INSTALLATION  
SIGNAL HEAD  
SIGNAL HEAD WITH BACKPLATE  
SIGNAL HEAD OPTICALLY PROGRAMMED  
SIGNAL HEAD, PEDESTRIAN  
SIGNAL POST  
MAST ARM ASSEMBLY AND POLE, STEEL  
MAST ARM ASSEMBLY AND POLE, ALUMINUM  
HANDPOLE  
HEAVY DUTY HANDPOLE  
DOUBLE HANDPOLE  
C/S CONDUIT IN TRENCH OR PUSHED  
PEDESTRIAN FLUORESCENT DETECTOR  
CONCRETE JUNCTION BOX  
CAST IRON JUNCTION BOX  
COMMON TRENCH  
SPECIAL TRENCH  
UNIT DUCT  
EMERGENCY VEHICLE SYSTEM DETECTOR  
CONDUIT SPLICE  
WOOD POLE  
DETECTOR LOOP  
RAILWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II  
RAILROAD CONTROL CABINET  
SIDEWALK RAMPS  
PUSH FITS  
CONFIRMATION BEACON



(A) THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.



RESTORATION OF WORK WILL RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AS FOUNDATION, CURBS, SIDEWALKS, DRIVEWAYS, BACKFILL, ETC., AND NO EXTRA WORK SHALL BE REQUIRED FOR ROADWAY SURFACES SUCH AS DRIVEWAYS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPAIRED TO ORIGINAL CONDITION. UNMOVED MATERIALS SHALL BE REPAIRED TO ORIGINAL CONDITION. UNMOVED MATERIALS SHALL BE REPAIRED TO ORIGINAL CONDITION. UNMOVED MATERIALS SHALL BE REPAIRED TO ORIGINAL CONDITION.



NOTE: ROAD WIDENING AND TEMPORARY SIGNAL INSTALLATION TO BE DONE BY OTHERS.

IL. RTE. 64 (NORTH AVENUE)

*Stall*  
INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
8-03-02  
MELROSE PARK-SHEET 178 OF 365  
CHRISTOPHER S. BURKE ENGINEERING LTD.  
2015 West Higgins Road, Suite 800  
Rosemont, Illinois 60018  
(847) 837-0800

REVISIONS	
NO.	DATE
1	6-19-06
2	8-03-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SIGNAL MODIFICATION  
AND REMOVAL PLAN  
IL. RTE. 64 (NORTH AVENUE)  
AND  
9TH AVENUE  
SCALE: VERT. NTS  
HORIZ. 8"=1'  
DATE 6/19/06  
DRAWN BY B&K  
DESIGNED BY B&K  
CHECKED BY B&K

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	29
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

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

### PROPOSED SCHEDULE OF QUANTITIES

FULL-ACTUATED CONTROLLER  
TRANSCEIVER - FIBER OPTIC

EACH 1  
EACH 1

THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.

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

PROPOSED INTERCONNECT TO WINSTON PARK PLAZA

INTERCONNECT TO 7TH AVE.  
PROPOSED INTERCONNECT TO 7TH AV.

#### SCHEDULE OF QUANTITIES

TRAFFIC CONTROL AND PROTECTION, STANDARD T0101  
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 30  
ELECTRIC CABLE IN CONDUIT NO. 20 30, TWISTED, SHIELDED  
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION  
LIGHT DETECTOR  
LIGHT DETECTOR AMPLIFIER

EACH 1  
FOOT 275  
FOOT 275  
EACH 1  
EACH 2  
EACH 1

### CABLE PLAN

#### CABLE PLAN LEGEND

- 12" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- PUSHBUTTON DETECTOR
- ① DENOTES NUMBER OF CONDUCTORS (NEW), ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- ② INDICATES EXISTING CABLE
- SIGNAL FACE WITH BACKPLATE
- ③ INDICATES PROGRAMMED
- EXISTING SIGNAL SECTION
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- CONFIRMATION BEACON

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
8-03-02  
MELROSE PARK-SHEET 179 OF 365

CHRISTOPHER B. BURKE ENGINEERING LTD.  
275 West Higgins Road, Suite 400  
Rosemont, Illinois 60018  
(630) 823-2600

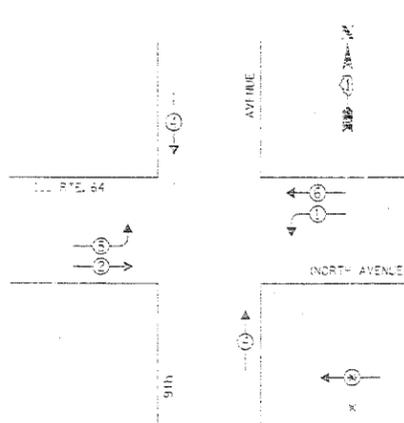
ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
SCHEDULE OF QUANTITIES

IL. RTE. 64 (NORTH AVENUE)  
AND  
9TH AVENUE

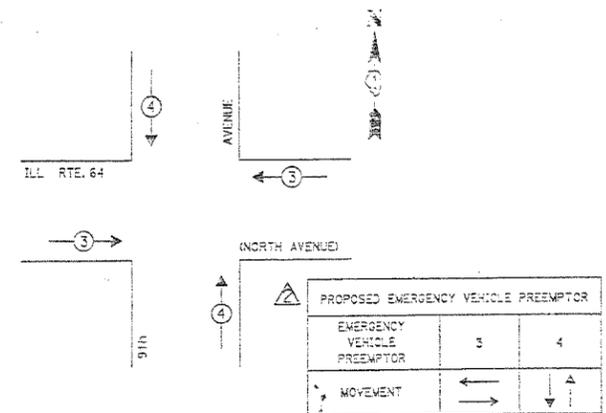
SCALE: VERT. NTS  
HORIZ. NTS  
DATE 6/19/06

DRAWN BY: BCF  
DESIGNED BY: BCF  
CHECKED BY: BCF

#### EXISTING CONTROLLER SEQUENCE



#### PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



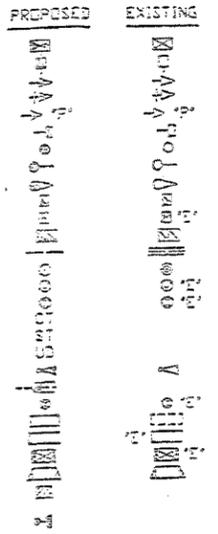
#### PHASE DESIGNATION DIAGRAM

REVISIONS	
NO.	DATE
1	10-6-03
2	10-03-02

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	30
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

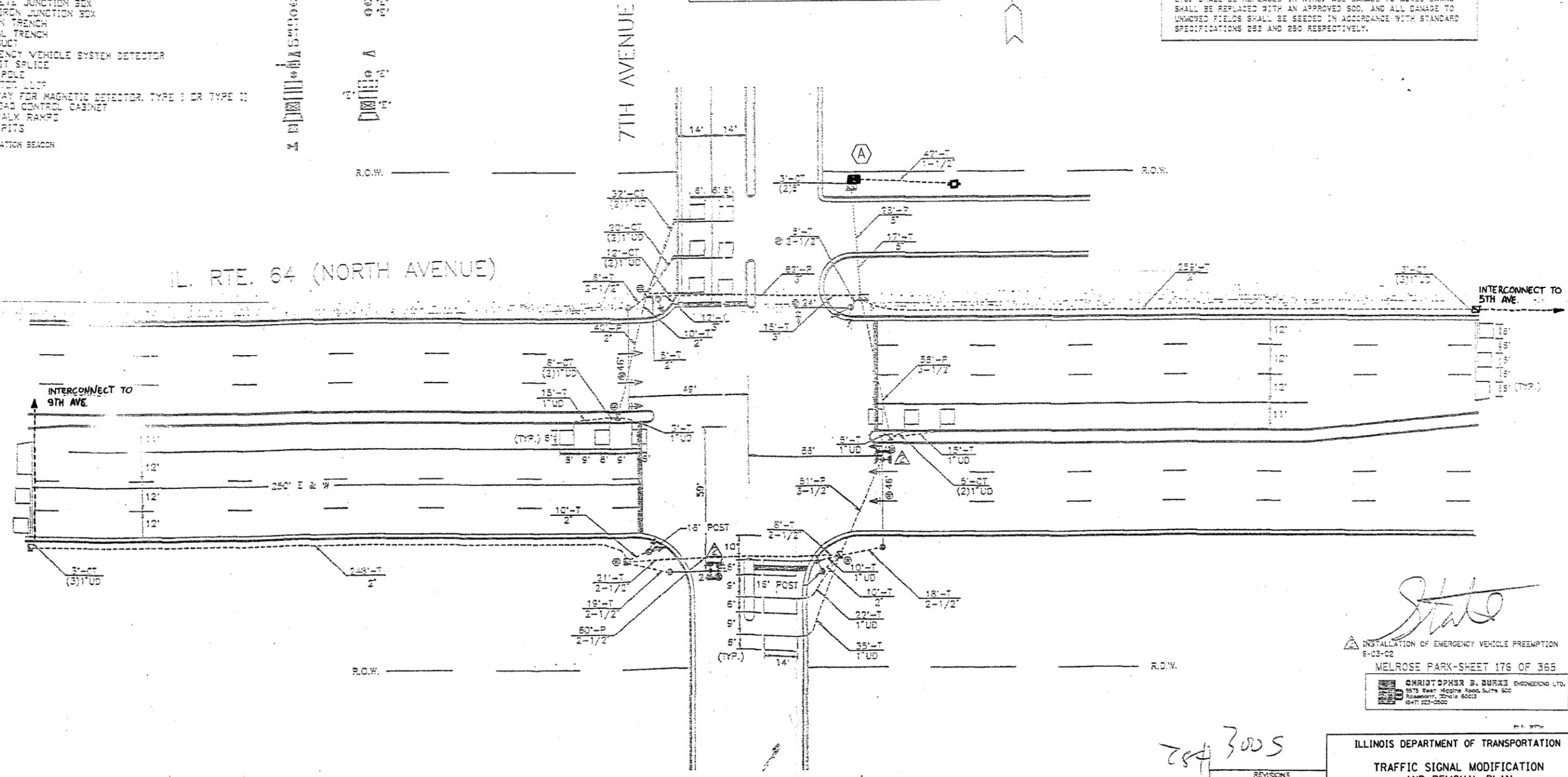
TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD OPTICALLY PROGRAMMED
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- HAST ARM ASSEMBLY AND POLE, STEEL
- HAST ARM ASSEMBLY AND POLE, ALUMINUM
- HANDPOLE
- HEAVY DUTY HANDPOLE
- DOUBLE HANDPOLE
- P.S. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- COMMON TRENCH
- SPECIAL TRENCH
- UNIT DUCT
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONDUIT SPLICE
- WOOD POLE
- DETECTOR LOOP
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- RAILROAD CONTROL CABINET
- SIDEWALK RAMPS
- PUSH PITS
- CONFIRMATION BEACON



THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 282 AND 280 RESPECTIVELY.



*State*

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION 8-03-02  
MELROSE PARK-SHEET 176 OF 365

CHRISTOPHER S. BURKE ENGINEERING LTD.  
8575 West Higgins Road, Suite 500  
Rosemont, Illinois 60018  
(847) 223-2600

284 3005

REVISIONS	
NO.	DATE
1	12-08-03
2	12-03-05

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN

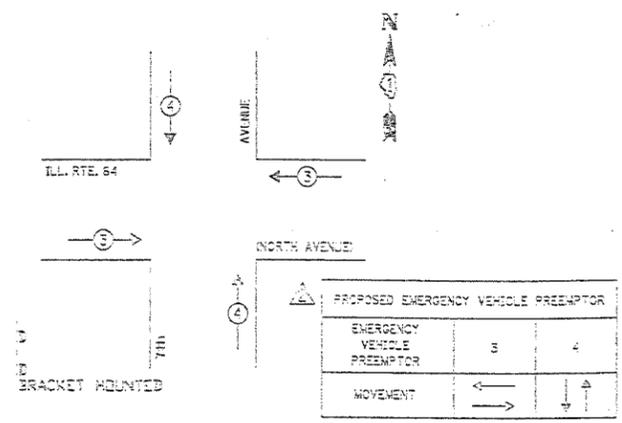
IL. RTE. 64 (NORTH AVENUE) AND 7TH AVENUE

SCALE: VERT. NTS  
HORIZ. 8"=1'  
DATE 6/19/06

DRAWN BY  
DESIGNED BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

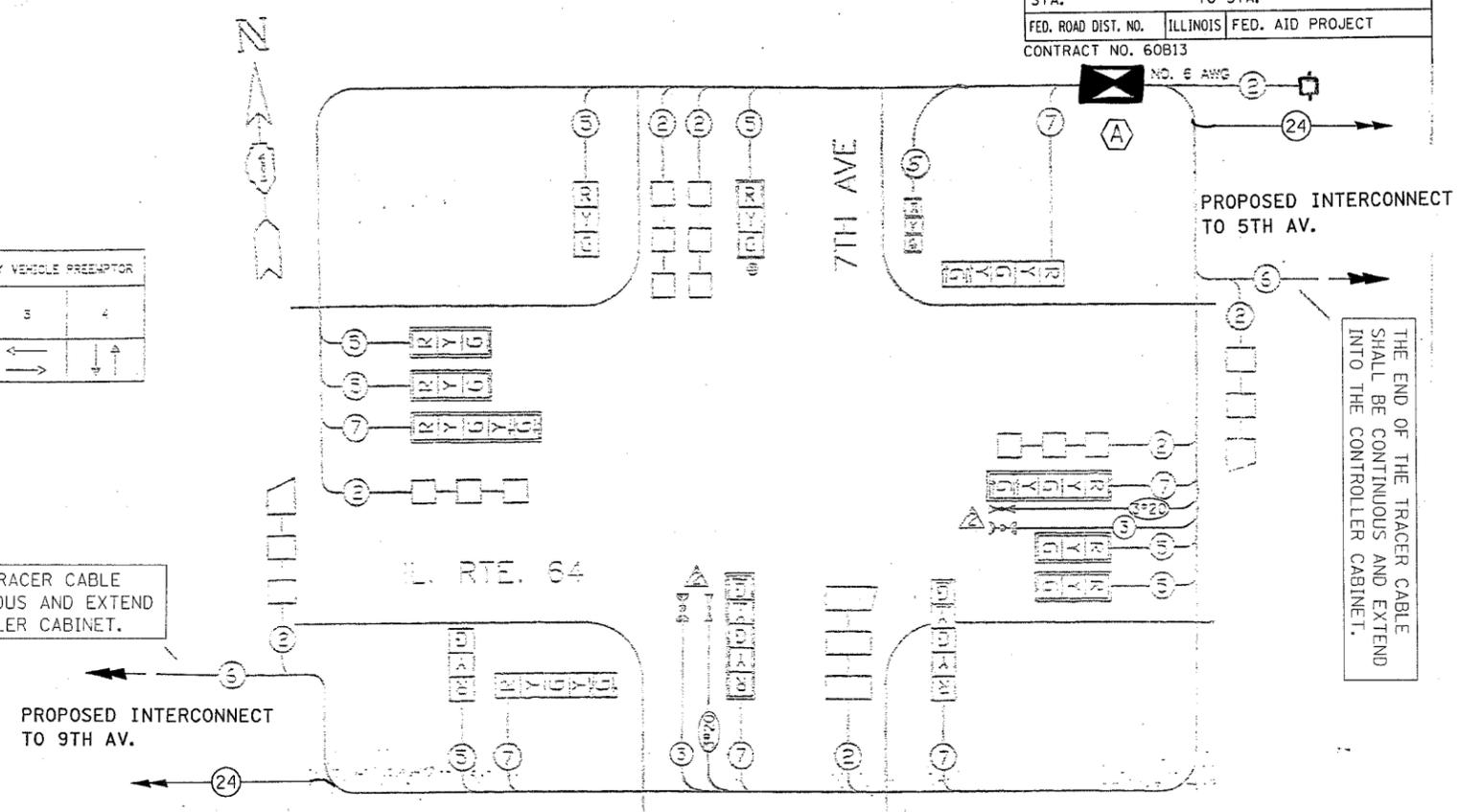
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED SCHEDULE OF QUANTITIES

FULL-ACTUATED CONTROLLER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1

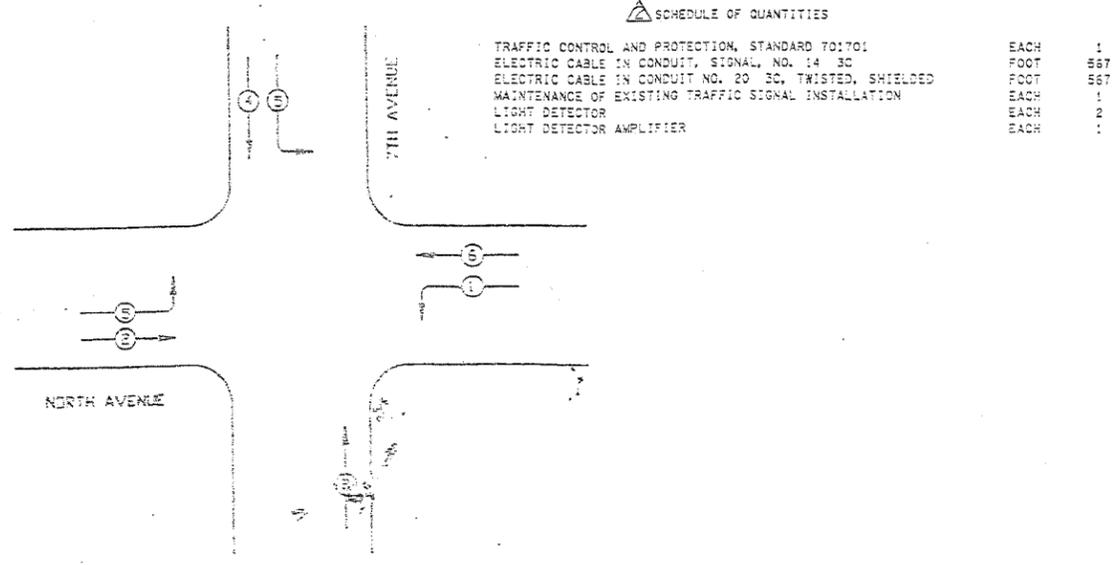
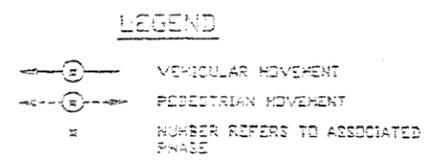
A THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.



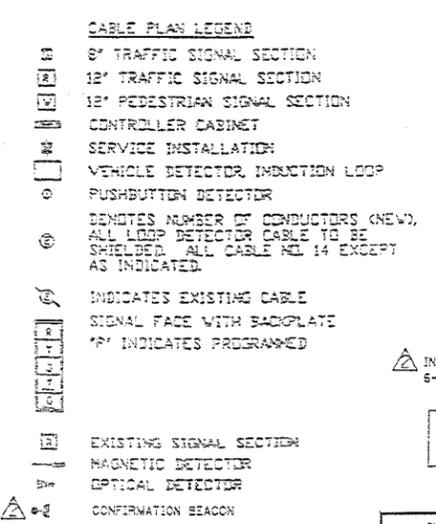
ATTENTION  
CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2353-1, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

PHASE DESIGNATION DIAGRAM



CABLE PLAN



MELROSE PARK-SHEET 177 OF 365

CHRISTOPHER S. BURKE ENGINEERING LTD.  
 8578 West Higgins Road Suite 600  
 Rosemont, Illinois 60018  
 (630) 823-0500

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 SCHEDULE OF QUANTITIES

IL. RTE. 64 (NORTH AVENUE)  
 AND  
 7TH AVENUE

SCALE: VERT. NTS  
 HORIZ.  
 DATE 6/19/06

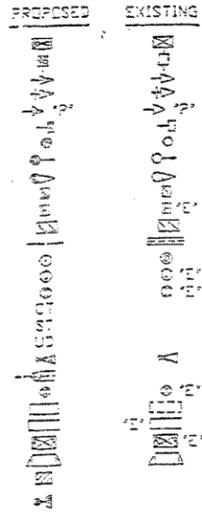
DRAWN BY  
 DESIGNED BY  
 CHECKED BY

REVISIONS	NAME	DATE
1	REVISOR	10-8-03
2	DESIGN	5-03-02

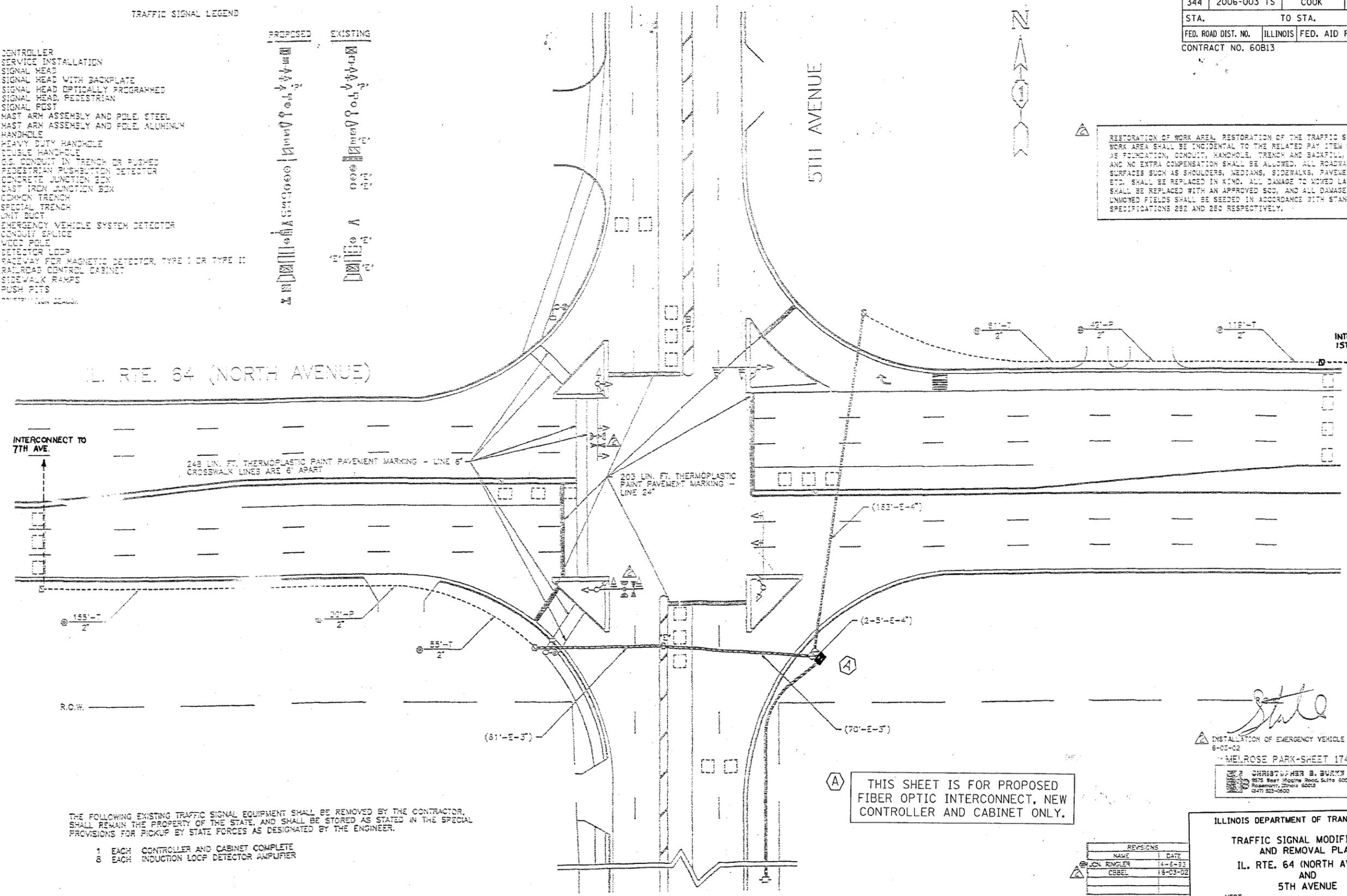
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	69	32
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD OPTICALLY PROGRAMMED
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- HANDHOLE
- HEAVY DUTY HANDHOLE
- TRIPLE HANDHOLE
- 6" CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- COMMON TRENCH
- SPECIAL TRENCH
- UNIT DUCT
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONDUIT SPLICE
- WOOD POLE
- DETECTOR LOOP
- RAILWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- RAILROAD CONTROL CABINET
- SIDEWALK RAMPS
- PUSH PITS
- CONSTRUCTION SIGN



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOI, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 282 AND 283 RESPECTIVELY.



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISIONS FOR PICKUP BY STATE FORCES AS DESIGNATED BY THE ENGINEER.

- 1 EACH CONTROLLER AND CABINET COMPLETE
- 8 EACH INDUCTION LOOP DETECTOR AMPLIFIER

THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER AND CABINET ONLY.

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
6-03-02  
MELROSE PARK-SHEET 174 OF 365  
CHRISTOPHER E. BURKE ENGINEERING LTD.  
3075 East Maple Road, Suite 500  
Rosemont, Illinois 60018  
(630) 521-0600

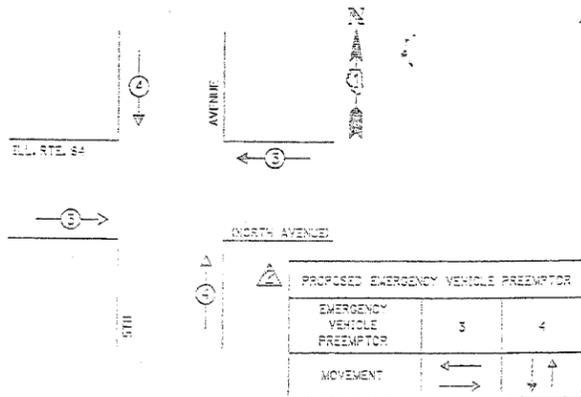
ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN  
IL. RTE. 64 (NORTH AVENUE) AND 5TH AVENUE

SCALE: VERT. NTS  
HORIZ.  
DATE 6/19/06

DRAWN BY: *OCZ*  
DESIGNED BY: *OCZ*  
CHECKED BY: *OCZ*

REVISIONS	
NAME	DATE
BLON RINGLER	14-04-03
CBREL	18-03-02

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED SCHEDULE OF QUANTITIES

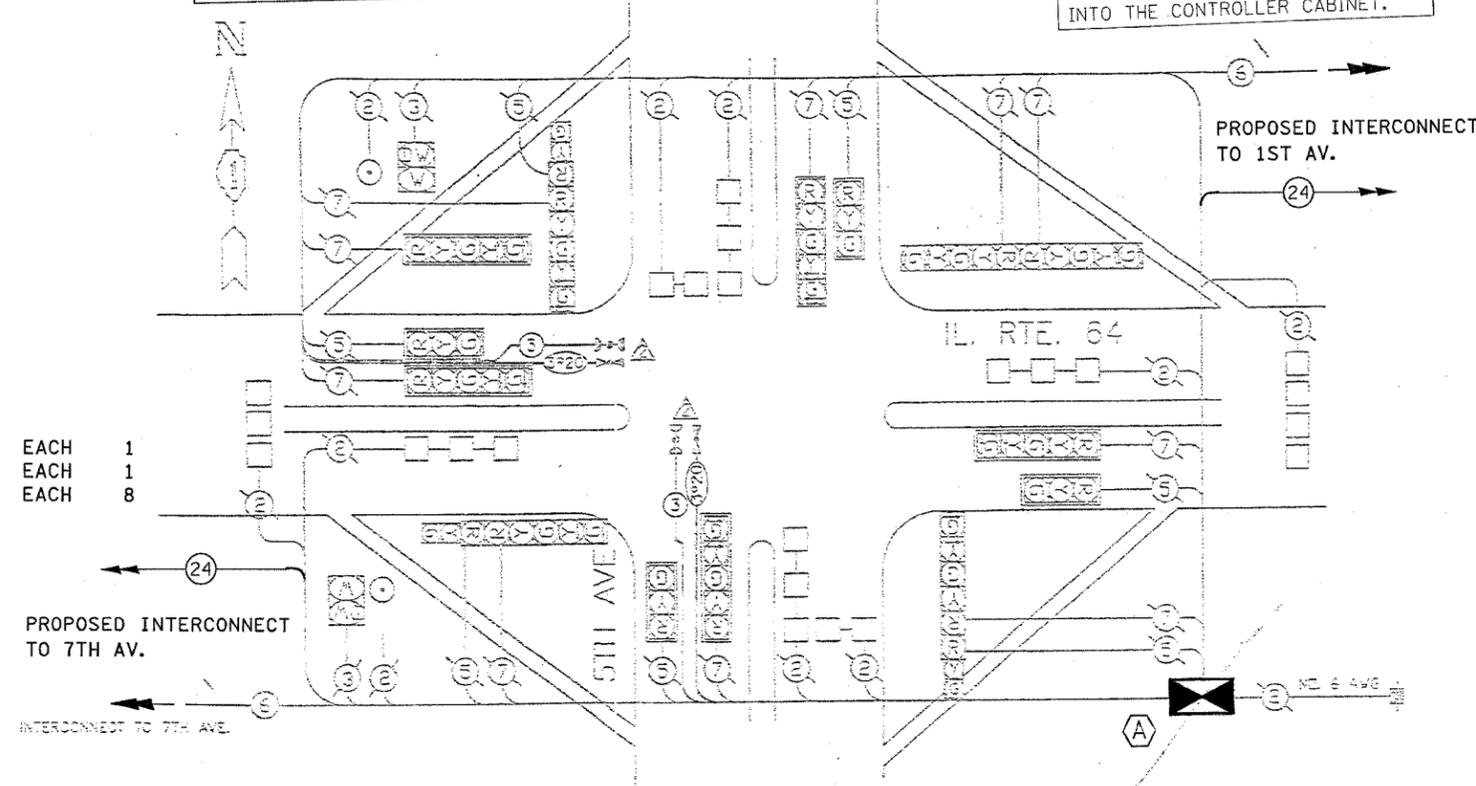
- FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
- TRANSCEIVER - FIBER OPTIC
- INDUCTIVE LOOP DETECTOR

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

EACH 1  
EACH 1  
EACH 8

THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER AND CABINET ONLY.

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	33
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60813				

CABLE PLAN

- CABLE PLAN LEGEND
- 6" TRAFFIC SIGNAL SECTION
  - 12" TRAFFIC SIGNAL SECTION
  - 12" PEDESTRIAN SIGNAL SECTION
  - CONTROLLER CABINET
  - SERVICE INSTALLATION
  - VEHICLE DETECTOR INDUCTIVE LOOP
  - PUSHBUTTON DETECTOR
  - INDICATES NUMBER OF CONDUCTORS (C/W), ALL LIGHT DETECTOR INSIDE TO BE C/W. ALL CABLE NO. 14 SHIELD AS INDICATED.
  - INDICATES EXISTING CABLE
  - SIGNAL FACE WITH BACKPLATE
  - INDICATES PROGRAMMED
  - EXISTING SIGNAL SECTION
  - MAGNETIC DETECTOR
  - OPTICAL DETECTOR
  - CONFIRMATION SECTION

SEQUENCE OF OPERATION

MOVEMENT	1 + 5	2 + 6	1 + 6	2 + 6	3 + 7	3 + 8	4 + 7	4 + 8
PHASE	1 + 5	2 + 6	1 + 6	2 + 6	3 + 7	3 + 8	4 + 7	4 + 8
INTERVAL	2, 3, 4, 5, 6, 7A, 7B, 8A, 8B, 9	10, 11, 12A, 12B, 13A, 13B, 14, 15A, 15B, 16A, 16B, 17	18, 19, 20, 21, 22	23A, 23B, 24, 25A, 25B, 26, 27	28A, 28B, 29, 30A, 30B, 31A, 31B, 32, 33, 34, 35, 36			
CHANGE TO PHASE	2+5, 1+6	2+6, 1+5	1+6, 2+6	2+6, 3+7	3+7, 3+8	3+8, 4+7	4+7, 4+8	4+8, 3+7
5TH AVE N/S APPROX. RIGHT AND MID MAST ARM SIGNALS	R	R	R	R	R	R	R	R
5TH AVE N/S LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R
5TH AVE S/W RIGHT SIGNALS	R	R	R	R	R	R	R	R
5TH AVE S/W FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R
IL 64 E/W NEAR RIGHT AND MID MAST ARM SIGNALS	R	R	R	R	R	R	R	R
IL 64 E/W FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R
IL 64 W/E NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R
IL 64 W/S MID MAST ARM SIGNALS	R	R	R	R	R	R	R	R
IL 64 W/E FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS ACROSS IL 64 WEST SIDE OF 5TH AVE	DW	DW	DW	DW	DW	DW	DW	DW

- TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL
- THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

SCHEDULE OF QUANTITIES

TRAFFIC CONTROL AND PROTECTION, STANDARD TO:01	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 30	FOOT	673
ELECTRIC CABLE IN CONDUIT, NO. 20 37, TWISTED, SHIELDED	FOOT	673
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1

REVISIONS

NO.	DATE	BY	DESCRIPTION
1			
2			

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
SCHEDULE OF QUANTITIES

IL. RTE. 64 (NORTH AVENUE)  
AND  
5TH AVENUE

SCALE: VERT. NTS  
HORIZ. NTS

DATE 6/19/06

DRAWN BY  
DESIGNED BY  
CHECKED BY





GENERAL NOTES

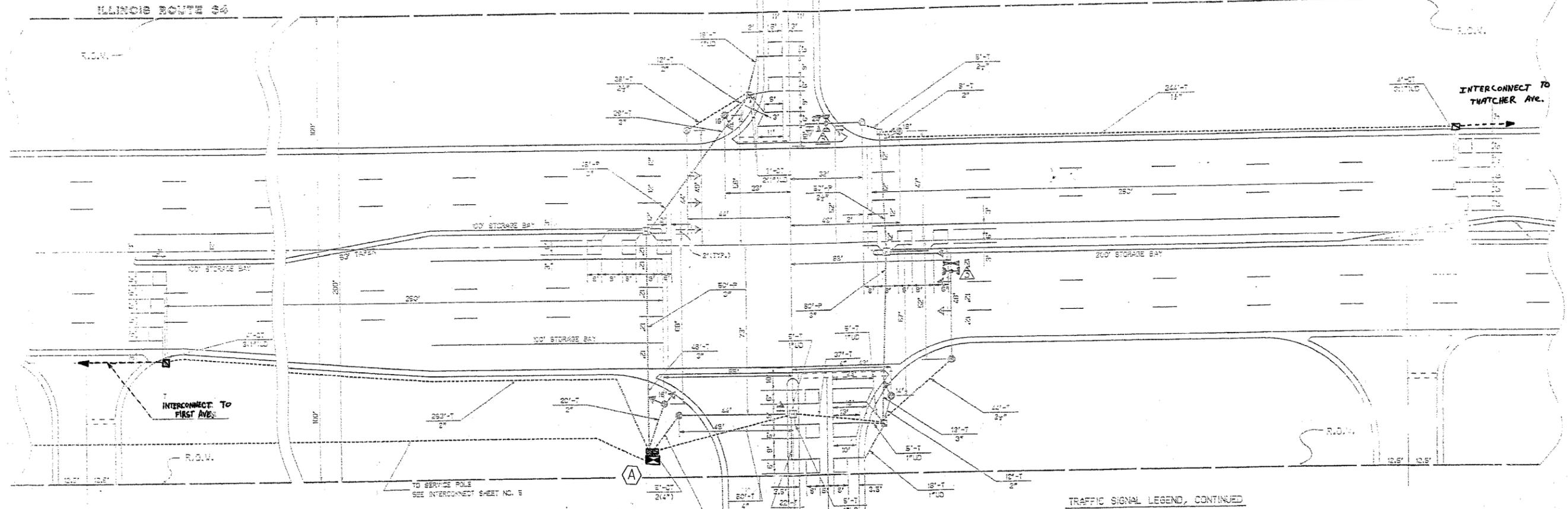
1. ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE LOOP DETECTOR AMPLIFIER MANUFACTURERS RECOMMENDATIONS. THE DETECTOR LOOP SHALL BE MEASURED FOR THAT PORTION OF SAW CUT BEYOND THE SPLICE AS SPECIFIED IN SECTION T 418.04 OF THE SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. LEAD-IN WIRING SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURERS RECOMMENDATIONS. THE 2/0 SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE SPLICE TO THE CONTROLLER AS SPECIFIED IN SECTION T 421.04 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE WILL NOT BE PERMITTED.
3. ALL SIGNAL AND DETECTOR ELECTRIC CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLYVINYLCHLORIDE JACKET. SERVICE CABLE MAY HAVE AN XLP JACKET.
4. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING AT HANDHOLES, JACKING PITS, INSPECTION OPENINGS AND CONCRETE JUNCTION BOXES SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED, THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND SURFACE PAVING WILL BE PAID FOR SEPARATELY.

RESTORATION OF CURB AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN AND TO THE DAMAGE TO ADJACENT LANS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNIMPROVED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 253 RESPECTIVELY.

TRAFFIC SIGNAL LEGEND

- PROPOSED      EXISTING
- CONTROLLER
  - SERVICE INSTALLATION
  - SIGNAL HEAD
  - SIGNAL HEAD WITH BACKPLATE
  - SIGNAL HEAD, PEDESTRIAN
  - SIGNAL POST
  - MAST ARM ASSEMBLY AND POLE, STEEL HANDHOLE
  - HEAVY DUTY HANDHOLE
  - DOUBLE HANDHOLE
  - S.S. CONDUIT IN TRENCH OR PUSHED
  - PEDESTRIAN PUSHBUTTON DETECTOR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	36
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60B13				



GENERAL NOTES, CONTINUED

5. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES CALL UNCLINE, TOLL FREE NUMBER 1-800-882-0132 AND STATE MAINTAINED TRAFFIC SIGNAL 312-287-7600.
6. ALL SIGNAL POST AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) AND SIX (6) FEET RESPECTIVELY FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN NON-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHOULD BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF SHOULDER.
7. THE RESIDENT ENGINEER SHALL MARK LOCATIONS OF ALL DETECTOR LOOPS AND CONTACT THE I.D.O.T. AREA TRAFFIC SIGNAL ENGINEER AT 705-4139 FOR LOCATION APPROVAL PRIOR TO THE LAYOUT OF LOOPS.

TRAFFIC SIGNAL LEGEND, CONTINUED

- DETECTOR LOOP
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- COMMON TRENCH
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- EMERGENCY VEHICLE SYSTEM DETECTOR
- SIGNAL HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- RAILROAD CONTROL CABINET
- CONFIRMATION BEACON

(A) THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL MODIFICATION  
 AND REMOVAL PLAN  
 IL. RTE. 64 (NORTH AVENUE) &  
 POLK PLAZA/ MENARDS S.C.  
 SCALE: 1"=20'  
 DATE: 6/19/06  
 DRAWN BY: ACK  
 DESIGNED BY: GCE  
 CHECKED BY: DAP

EDWIN HANCOCK ENGINEERING COMPANY  
 CONSULTING ENGINEERS  
 1001 ROOSEVELT ROAD  
 WESTCHESTER, ILLINOIS 60183-1700  
 ESTABLISHED 1971

PROPOSED TRAFFIC SIGNALS  
 MENARDS PLAZA  
 VILLAGE OF MELROSE PARK, ILLINOIS

PROPOSED TRAFFIC SIGNAL PLAN  
 MENARDS PLAZA/NORTH AVENUE

# PROPOSED SCHEDULE OF QUANTITIES

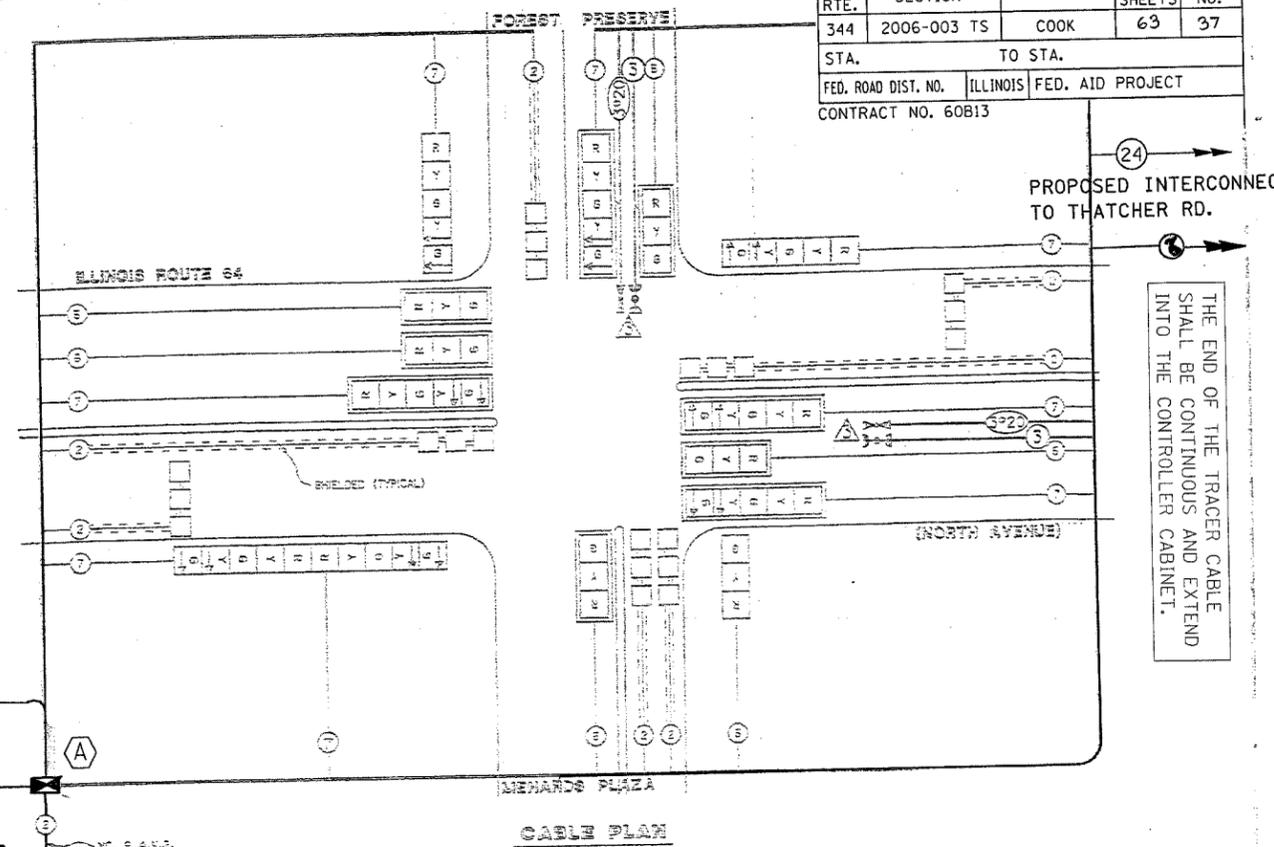
FULL-ACTUATED CONTROLLER  
TRANSCEIVER - FIBER OPTIC

EACH 1  
EACH 1

## CABLE PLAN LEGEND

- 6" 5" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- PUSHBUTTON DETECTOR
- ② DENOTES NUMBER OF CONDUCTORS (NEW). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- ③ INDICATES EXISTING CABLE
- ④ SIGNAL FACE WITH BACKPLATE
- ⑤ \*\* INDICATES PROGRAMMED
- ⑥ EXISTING SIGNAL SECTION
- ⑦ MAGNETIC DETECTOR
- ⑧ OPTICAL DETECTOR
- ⑨ CONFIRMATION BEACON

A THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	37
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT NO. 60B13		

PROPOSED INTERCONNECT TO THATCHER RD.

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

PROPOSED INTERCONNECT TO 1ST AV.

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

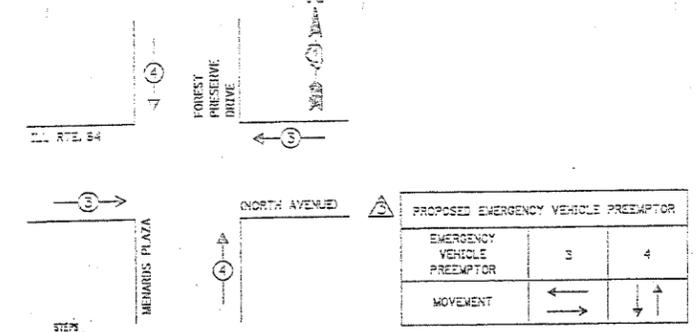
## SEQUENCE OF OPERATIONS

MOVEMENT	1+5	1+6	2+5	2+6	3+5	4+5	FLASH
PHASE	1+5	1+6	2+5	2+6	3+5	4+5	
INTERVAL	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23						
CHANGE TO	1+5	1+6	2+5	2+6	3+5	4+5	
ILLINOIS 64	R	R	R	R	R	R	R
ILLINOIS 64 EB FLASHER	R	R	R	R	R	R	R
ILLINOIS 64 EB FLASHER MAIN LEFT	R	R	R	R	R	R	R
ILLINOIS 64 EB MAIN QTR SIGNAL	R	R	R	R	R	R	R
ILLINOIS 64 WB FLASHER	R	R	R	R	R	R	R
ILLINOIS 64 WB FLASHER MAIN LEFT	R	R	R	R	R	R	R
POLK PLAZA	R	R	R	R	R	R	R
POLK PLAZA WB FLASHER	R	R	R	R	R	R	R
POLK PLAZA WB FLASHER MAIN LEFT	R	R	R	R	R	R	R
FOREST PRESERVE DRIVE	R	R	R	R	R	R	R
SS SIGNALS	R	R	R	R	R	R	R

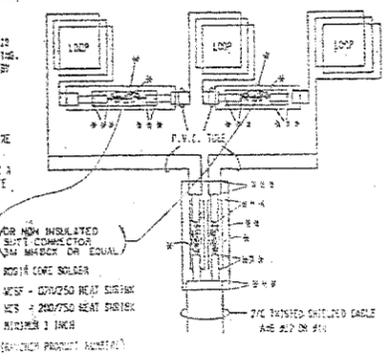
### SCHEDULE OF QUANTITIES

TRAFFIC CONTROL AND PROTECTION, STANDARD 101701	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 30	FOOT	530
ELECTRIC CABLE IN CONDUIT NO. 20 30, TWISTED, SHIELDED	FOOT	530
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1

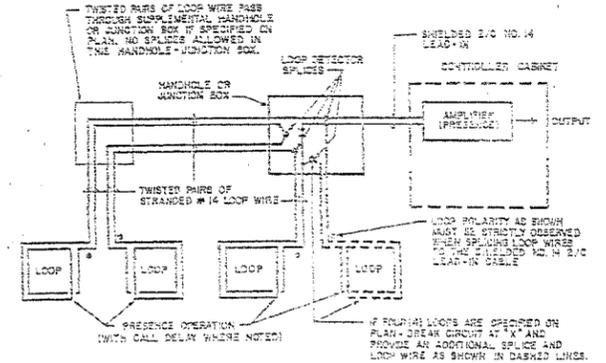
## PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



- REMOVE OUTER CABLE COVERINGS OR P.V.C. TUBE LEAVING 4 INCHES OF UNINSULATED WIRE EXPOSED.
- REMOVE INSULATION FOR 1/2 INCH AND STRIP COPPER CONDUCTOR.
- INSERT CABLE AND/OR CONDUCTORS INTO THE RESPECTIVE APPROVED HEAT SHRINKABLE TUBING. THE CONDUCTORS SHALL THEN BE CONNECTED BY TWISTING TOGETHER AND SOLDERING WITH A SMOOTH CONE SOLDER.
- THE WIRE (20/250) TUBE SHALL COMPLETELY COVER THE SOLDERED CONNECTION AND THE INSULATION 1 INCH BEYOND ALL EXPOSED WIRE AT EITHER END OF THE CONNECTION.
- SEALING THE TUBE OVER THE SPLIT TO FORM A WATER TIGHT COVERING USING A HEAT SHRINK APPROVED BY THE ENGINEER.
- TAPE AND TO LOOP LEAD-INS.



- EACH LOOP LEAD-IN SHALL BE PLACED IN A SEPARATE CONDUIT FROM EDGE OF PAVEMENT TO HANDHOLE BRACKETS BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6".
- EACH LOOP DETECTOR SPLICE SHALL BE AN INDIVIDUAL TYPE II OR TYPE III SPLICE.
- LOOP TURNS AS RECOMMENDED BY THE MANUFACTURER.



## LOOP DETECTOR SCHEMATIC

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND SCHEDULE OF QUANTITIES  
IL. RTE. 64 (NORTH AVENUE) &  
POLK PLAZA/ MENARDS S.C.  
SCALE: NONE  
DATE: 6/19/06  
DRAWN BY: BCF  
DESIGNED BY: BCF  
CHECKED BY: DAD

DEWIK HANCOCK ENGINEERING COMPANY  
CONSULTING ENGINEERS  
8820 ROCKFORD ROAD  
MORTON, ILLINOIS 60450-4787  
(815) 924-4200

PROPOSED TRAFFIC SIGNALS  
MENARDS PLAZA  
VILLAGE OF MELROSE PARK, ILLINOIS

CABLE PLAN, LOOP SPLICE DETAIL,  
LOOP DETECTOR SCHEMATIC DETAIL,  
A SEQUENCE OF OPERATIONS

REVISION 1.1

TRAFFIC SIGNAL LEGEND

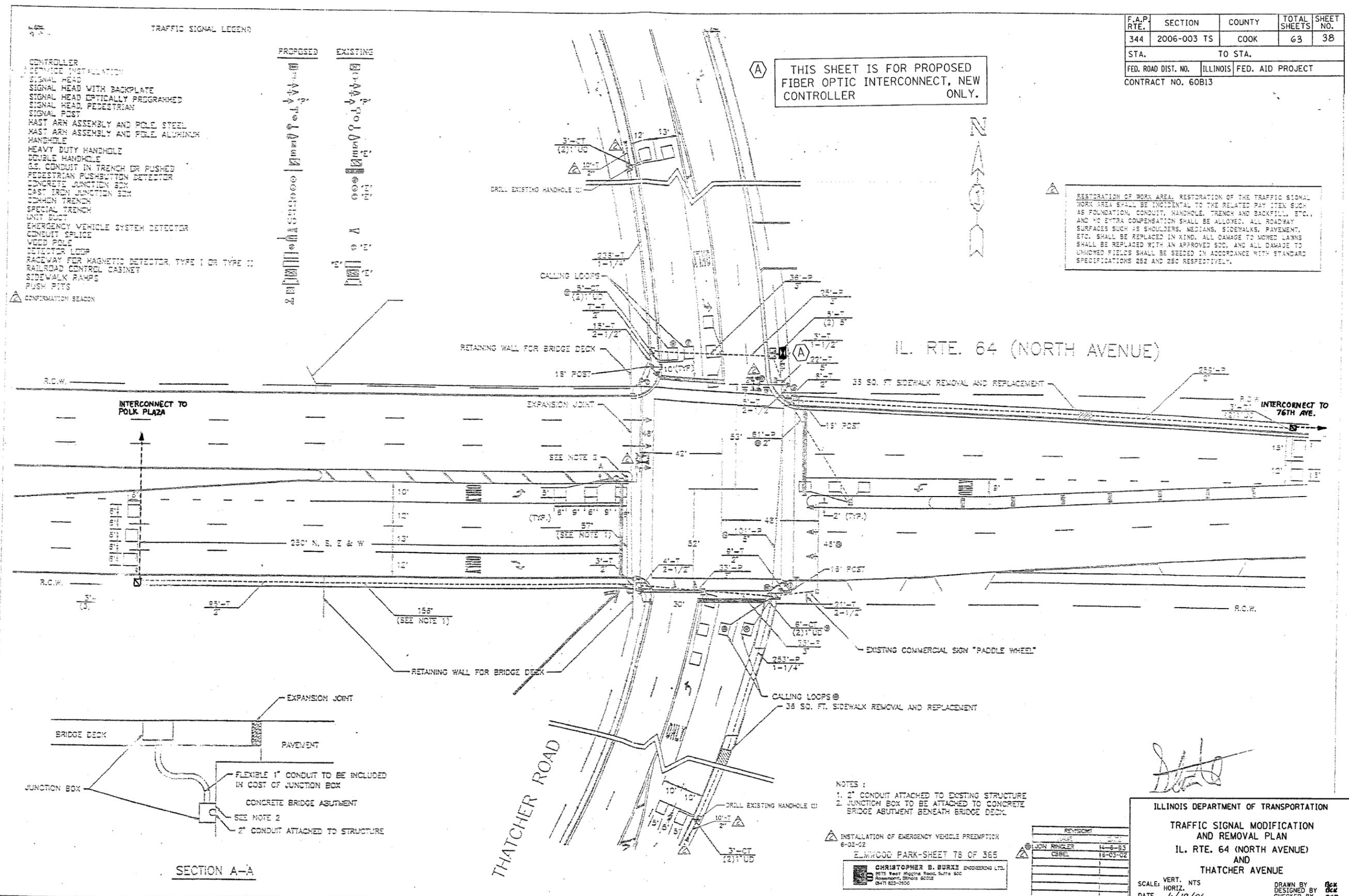
- CONTROLLER
- DEVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD OPTICALLY PROGRAMMED
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- WAST ARM ASSEMBLY AND POLE STEEL
- WAST ARM ASSEMBLY AND POLE ALUMINUM
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- 6.0 CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- UNION TRENCH
- SPECIAL TRENCH
- UNIT DUCT
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONDUIT SPLICE
- WOOD POLE
- DETECTOR LOOP
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- RAILROAD CONTROL CABINET
- SIDEWALK RAMPS
- PUSH FITS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.

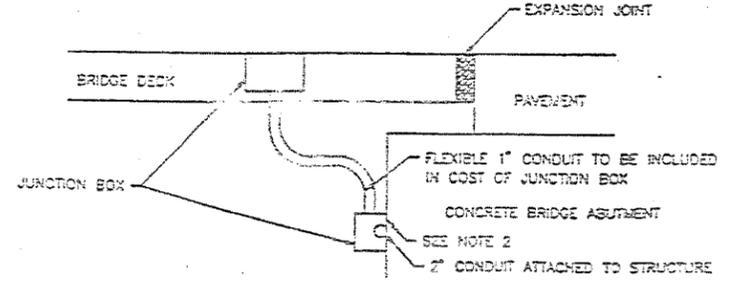
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOI, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



INTERCONNECT TO POLK PLAZA

IL. RTE. 64 (NORTH AVENUE)

INTERCONNECT TO 76TH AVE.



SECTION A-A

- NOTES:
1. 2" CONDUIT ATTACHED TO EXISTING STRUCTURE
  2. JUNCTION BOX TO BE ATTACHED TO CONCRETE BRIDGE ABUTMENT BENEATH BRIDGE DECK.

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
6-03-02  
ELMWOOD PARK-SHEET 78 OF 365

CHRISTOPHER B. BURKE ENGINEERING LTD.  
2015 West Higgins Road Suite 500  
Rosemont, Illinois 60018  
(847) 833-7500

REVISION	DATE
1	12-6-03
2	12-6-03
3	12-03-02

*[Handwritten signature]*

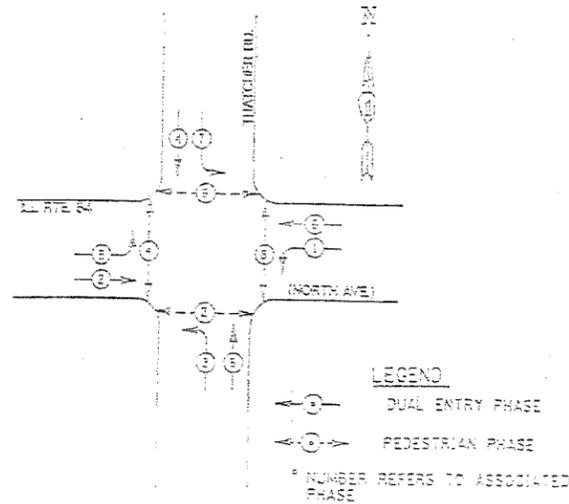
ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SIGNAL MODIFICATION  
AND REMOVAL PLAN  
IL. RTE. 64 (NORTH AVENUE)  
AND  
THATCHER AVENUE

SCALE: VERT. NTS  
HORIZ. 844  
DATE: 6/19/06  
DRAWN BY: BCK  
DESIGNED BY: BCK  
CHECKED BY: DWP

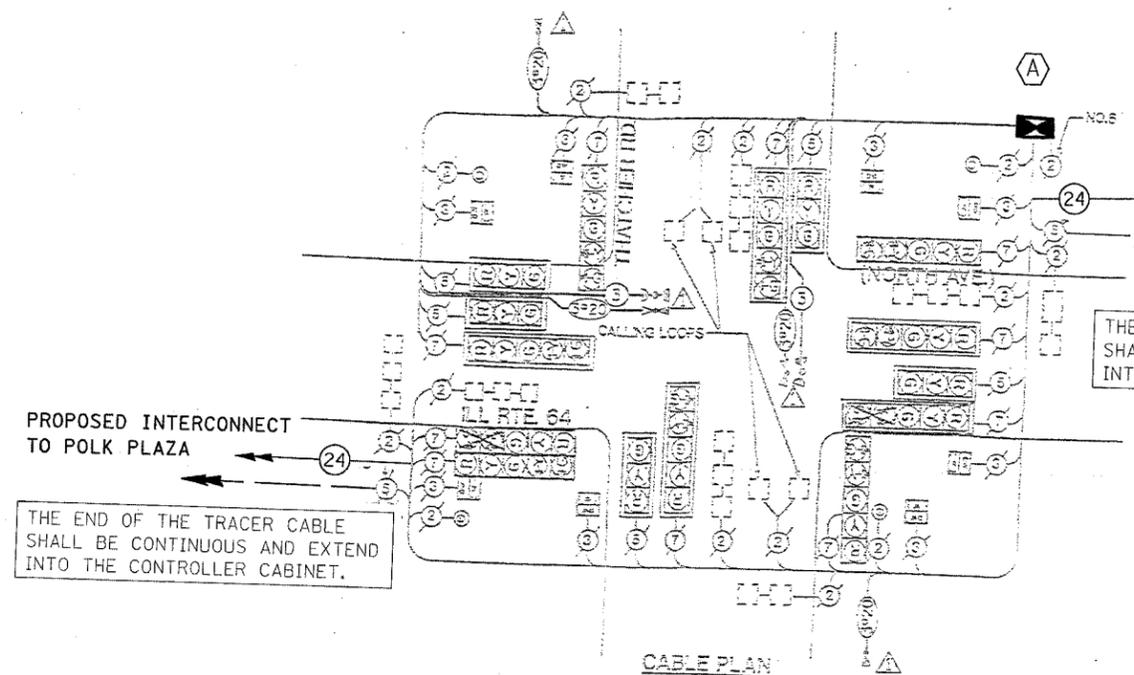
Reference: ILL-ELAND - Elmwood Park 648-1101.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	39
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

EXISTING CONTROLLER SEQUENCE IV  
 REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW:



**PHASE DESIGNATION DIAGRAM**  
 DUAL ENTRY - ALL LEGS  
 PROTECTED/PERMITTED LEFT TURN PHASING



**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" (800mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	8" (800mm) UTILIZATION
[Symbol]	[Symbol]	VEHICLE DETECTOR INDUCTION LOOP
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONSPICUOUS BEACON
[Symbol]	[Symbol]	DETECTOR

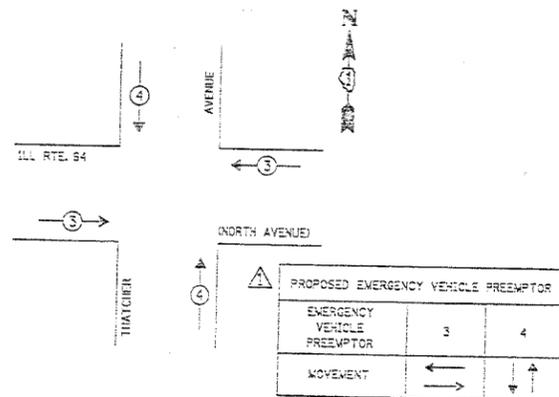
DR. DATE NAME OF CONSULTANT  
 THE DATE AND NAME OF PROJECT ASSIGNED  
 ALL LOOP DETECTOR CABLE TO BE ONE  
 8" (800mm) WITH BACKPLATE  
 12" (300mm) WITH UNMARKED HEAD

**PROPOSED SCHEDULE OF QUANTITIES**

FULL-ACTUATED CONTROLLER	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1

THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
 8-03-02  
 ELMWOOD PARK-SHEET 79 OF 365

CHRISTOPHER S. BURKE ENGINEERING LTD.  
 273 West Lincoln Road, Suite 900  
 Rosemont, Illinois 60018  
 (847) 223-0500

**REVISIONS**

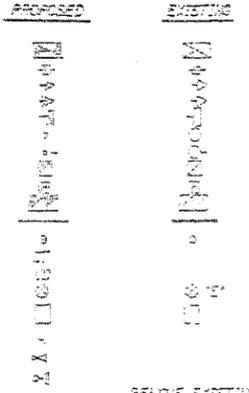
NAME	DATE
CSREL	8-03

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 SCHEDULE OF QUANTITIES  
 IL. RTE. 64 (NORTH AVENUE)  
 AND  
 THATCHER AVENUE  
 SCALE: VERT. NTS  
 HORIZ. NTS  
 DATE 6/19/06  
 DRAWN BY [Signature]  
 DESIGNED BY [Signature]  
 CHECKED BY [Signature]

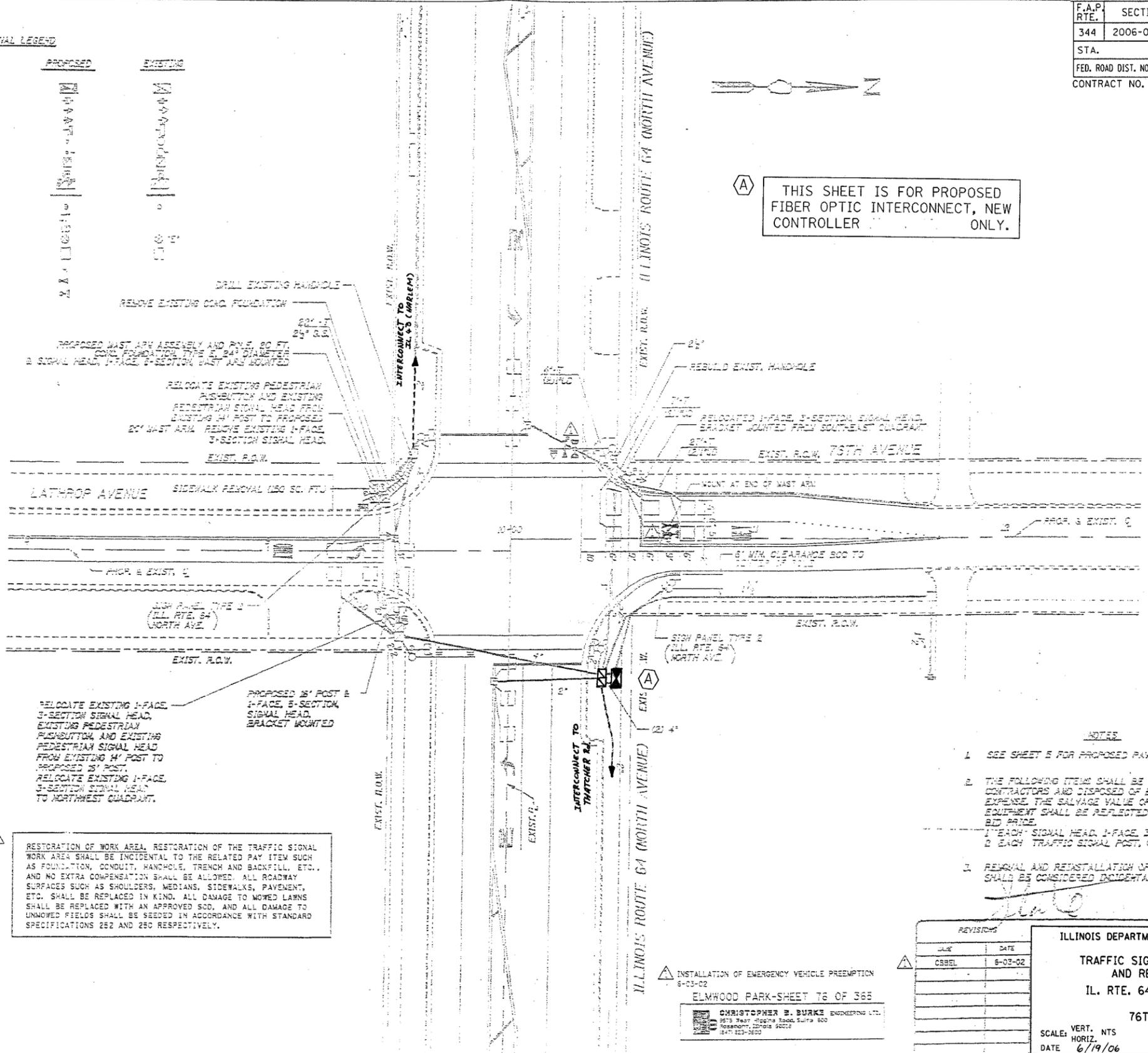
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	40
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

**TRAFFIC SIGNAL LEGEND**

- CONTROLLER  
 SERVICE INSTALLATION  
 SIGNAL HEAD  
 SIGNAL HEAD WITH BACKPLATE  
 SIGNAL HEAD, PEDESTRIAN  
 SIGNAL POST  
 HALF ARM ASSEMBLY AND POLE, STEEL  
 HANDPOLE  
 HEAVY DUTY HANDPOLE  
 DOUBLE HANDPOLE  
 I.C. CONDUIT IN TRENCH OR PUSHED  
 PEDESTRIAN PUSHBUTTON DETECTOR  
 CEMENT TRENCH  
 UNIT POST  
 WOOD POLE  
 DETECTOR LOOP  
 SIGN PANEL



**A** THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDPOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDS IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- NOTES**
- SEE SHEET 5 FOR PROPOSED PAVEMENT MARKINGS
  - THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HIM AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.  
 1) EACH SIGNAL HEAD, 1-FACE, 3-SECTION, BM  
 2) EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL W/
  - REMOVAL AND REINSTALLATION OF CABLE (IF REQUIRED) SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

**REVISIONS**

DATE	DATE
08-02-02	08-02-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL MODIFICATION  
 AND REMOVAL PLAN  
 IL. RTE. 64 (NORTH AVENUE)  
 AND  
 76TH AVENUE

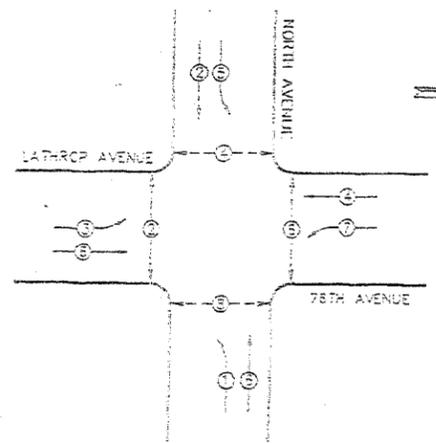
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 HORIZ.  
 DATE 6/19/06

DRAWN BY  
 DESIGNED BY  
 CHECKED BY

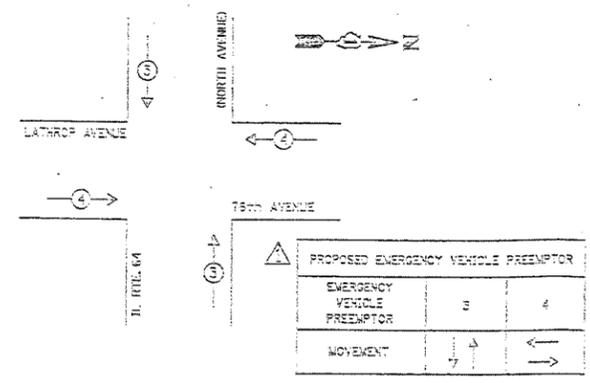
INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
 6-03-02  
 ELMWOOD PARK-SHEET 76 OF 366  
 CHRISTOPHER E. BURKE ENGINEERING LTD.  
 9573 West Higgins Road, Suite 800  
 Rosemont, Illinois 60018  
 (847) 823-3800

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	41
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

**EXISTING CONTROLLER SEQUENCE IV**  
 REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW



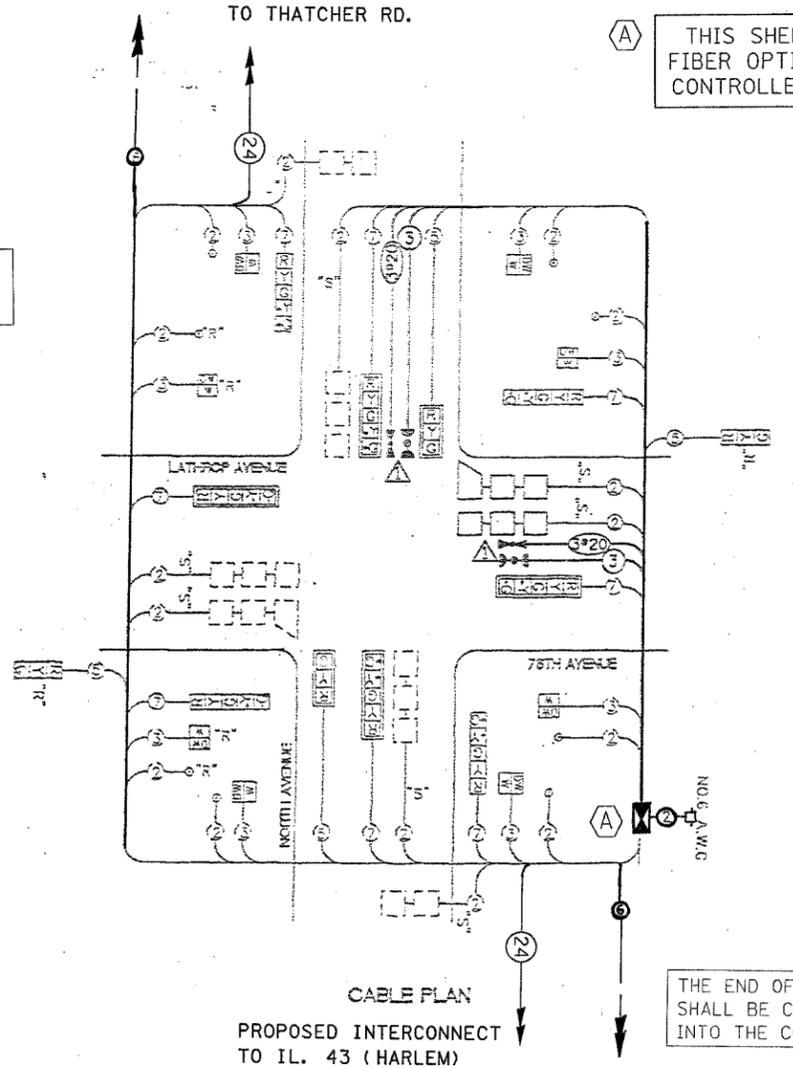
**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**PROPOSED INTERCONNECT TO THATCHER RD.**

**A THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER ONLY.**

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



**CABLE PLAN**  
**PROPOSED INTERCONNECT TO IL. 43 (HARLEM)**

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

**PROPOSED SCHEDULE OF QUANTITIES**

FULL-ACTUATED CONTROLLER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1

- CABLE PLAN LEGEND**
- EXIST. (Symbol)
  - RELOCATED (Symbol)
  - PROP. (Symbol)
  - 12" TRAFFIC SIGNAL SECTION (Symbol)
  - CONTROLLER CABINET (Symbol)
  - SERVICE INSTALLATION (Symbol)
  - LOOP DETECTOR (Symbol)
  - 6 DENOTES NUMBER OF CONDUCTORS (NEW). ALL ELECTRIC CABLE SHOULD BE NO.14 A.W.G. UNLESS OTHERWISE INDICATED.
  - SIGNAL FACE (Symbol)
  - SIGNAL FACE WITH BACKPLATE (Symbol)
  - OPTICAL DETECTOR (Symbol)
  - CONFIRMATION BEACON (THRU WAY) (Symbol)
  - TWISTED AND SHIELDED CABLE (Symbol)
  - PEDESTRIAN PUSHBUTTON DETECTOR CONFIRMATION BEACON (Symbol)

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION  
 6-03-02  
 ELMWOOD PARK-SHEET 77 OF 365  
 CHRISTOPHER B. BURKE ENGINEERING LTD.  
 1075 East McHugh Road, Suite 500  
 Rosemary, Illinois 60442  
 (847) 882-0770

**REVISIONS**

NAME	DATE
CBSEL	6-03-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES**  
 IL. RTE. 64 (NORTH AVENUE) AND 76TH AVENUE  
 SCALE: VERT. NTS  
 HORIZ. DATE 6/19/06  
 DRAWN BY: [Signature]  
 DESIGNED BY: [Signature]  
 CHECKED BY: [Signature]

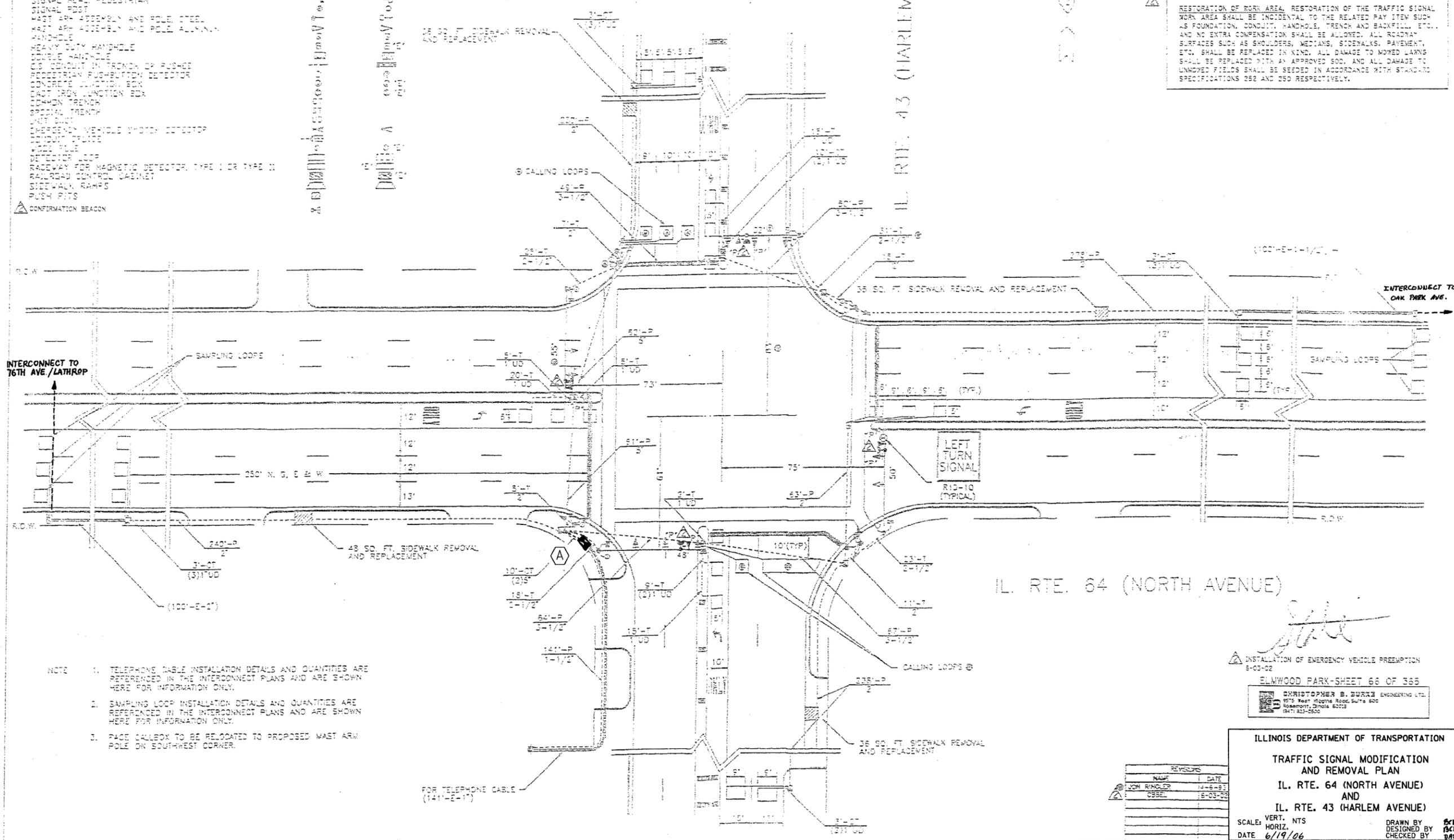
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	42
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

TRAFFIC SIGNAL LEGEND

- |   |                     |          |
|---|---------------------|----------|
| CONTROLLER  | PROPOSED            | EXISTING |
| SERVICE INSTALLATION                              |                     |          |
| SIGNAL HEAD                                       |                     |          |
| SIGNAL HEAD WITH BACKPLATE                        |                     |          |
| SIGNAL HEAD OPTICALLY PROGRAMMED                  |                     |          |
| SIGNAL HEAD PEDESTRIAN                            |                     |          |
| SIGNAL POST                                       |                     |          |
| MAST ARM ASSEMBLY AND POLE STEEL                  |                     |          |
| MAST ARM ASSEMBLY AND POLE ALUMINUM               |                     |          |
| HANDSILE  |                     |          |
| HEAVY DUTY HANDSILE                               |                     |          |
| DOUBLE HANDSILE                                   |                     |          |
| C/S CONDUIT IN TRENCH OR RIGID                    |                     |          |
| PEDESTRIAN PUSHBUTTON DETECTOR                    |                     |          |
| CONCRETE JUNCTION BOX                             |                     |          |
| CAST IRON JUNCTION BOX                            |                     |          |
| COMMON TRENCH                                     |                     |          |
| SPECIAL TRENCH                                    |                     |          |
| UNIT BOX  |                     |          |
| EMERGENCY VEHICLE PHOTO DETECTOR                  |                     |          |
| TRENCH GUIDE                                      |                     |          |
| WOOD PILE   |                     |          |
| DETECTOR LOOP                                     |                     |          |
| RAILROAD FOR MAGNETIC DETECTOR, TYPE I OR TYPE II |                     |          |
| RAILROAD CONTROL CABINET                          |                     |          |
| BIKEWALK RAMP                                     |                     |          |
| PUSH PITS   |                     |          |
|   | CONFIRMATION BEACON |          |

THIS SHEET IS FOR PROPOSED FIBER OPTIC INTERCONNECT, NEW CONTROLLER AND CABINET ONLY.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOVED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



INTERCONNECT TO 76TH AVE/LATHROP

INTERCONNECT TO OAK PARK AVE.

IL. RTE. 64 (NORTH AVENUE)

- NOTE
1. TELEPHONE CABLE INSTALLATION DETAILS AND QUANTITIES ARE REFERENCED IN THE INTERCONNECT PLANS AND ARE SHOWN HERE FOR INFORMATION ONLY.
  2. SAMPLING LOOP INSTALLATION DETAILS AND QUANTITIES ARE REFERENCED IN THE INTERCONNECT PLANS AND ARE SHOWN HERE FOR INFORMATION ONLY.
  3. PLACE CALLBOX TO BE RELOCATED TO PROPOSED MAST ARM POLE ON SOUTHWEST CORNER.

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION 8-03-02

ELMWOOD PARK-SHEET 66 OF 365  
 CHRISTOPHER B. BURKE ENGINEERING LTD.  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 832-9500

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN

IL. RTE. 64 (NORTH AVENUE) AND IL. RTE. 43 (HARLEM AVENUE)

SCALE: VERT. NTS  
 HORIZ. 1"=40'  
 DATE 6/19/06

DRAWN BY [Signature]  
 CHECKED BY [Signature]

REVISES	
NAME	DATE
JOH RINGLER	10-06-03
USSEL	10-03-08

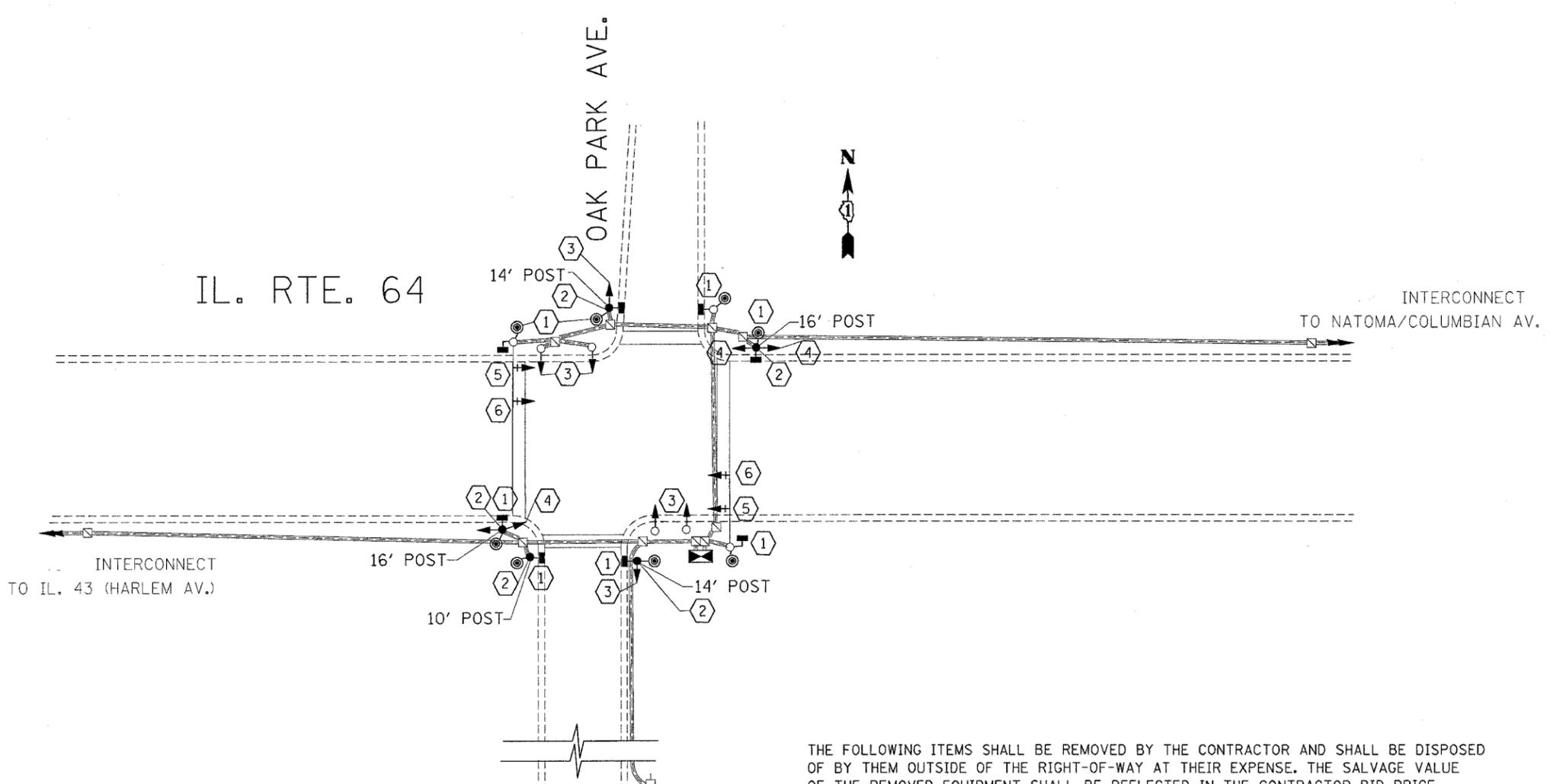


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	44
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B13

### TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET		
RAILROAD CONTROL CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED		
SIGNAL HEAD PEDESTRIAN		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		
SIGNAL POST		
WOOD POLE		
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
JUNCTION BOX		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
COMMON TRENCH	CT	
UNIT DUCT	UD	
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP		
MICROWAVE VEHICLE SENSOR		
VIDEO DETECTOR		
CLOSED CIRCUIT TV		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		



- ① REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS AND REPLACE WITH NEW L.E.D. SIGNAL HEADS AND PUSH BUTTONS
- ② REMOVE EXISTING SIGNAL POST AND REPLACE WITH NEW GALVANIZED SIGNAL POST USING EXISTING FOUNDATION.
- ③ REMOVE EXISTING 1-FACE, 3-SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 1-FACE, 3-SECTION SIGNAL HEAD.
- ④ REMOVE EXISTING 2-FACE, 1-3 SECTION, 1-5 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 1-3-SECTION, 1-5 SECTION SIGNAL HEAD.
- ⑤ REMOVE EXISTING 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED
- ⑥ REMOVE EXISTING 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED

- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACTOR BID PRICE.
- 6 EACH SIGNAL HEAD, 3-SECTION
  - 2 EACH SIGNAL HEAD, 3-SECTION MAST ARM MNTD.
  - 2 EACH SIGNAL HEAD, 5-SECTION, MAST ARM MNTD.
  - 2 EACH SIGNAL HEAD, 2 FACE, 1-3 SECTION, 1-5 SECTION
  - 8 EACH PEDESTRIAN PUSH-BUTTONS
  - 8 EACH PEDESTRIAN SIGNAL HEADS
  - 1 EACH 10' SIGNAL POST
  - 2 EACH 14' SIGNAL POSTS
  - 2 EACH 16' SIGNAL POSTS
  - 4 EACH BACKPLATE

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

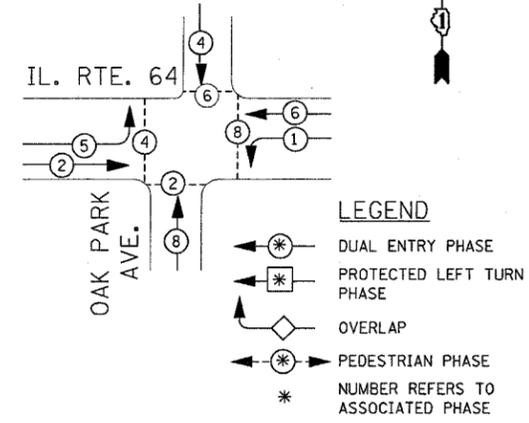
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL MODIFICATION**  
 ILL. RTE. 64 (NORTH AVE.) AT  
 OAK PARK AVE.

SCALE: 1"=20'  
 DATE 6/23/2006

DRAWN BY BCK  
 DESIGNED BY BCK  
 CHECKED BY DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	45
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60813				

### CONTROLLER SEQUENCE



**LEGEND**  
 \* DUAL ENTRY PHASE  
 \* PROTECTED LEFT TURN PHASE  
 OVERLAP  
 \* PEDESTRIAN PHASE  
 \* NUMBER REFERS TO ASSOCIATED PHASE

IL. RTE. 64

OAK PARK AVE.

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

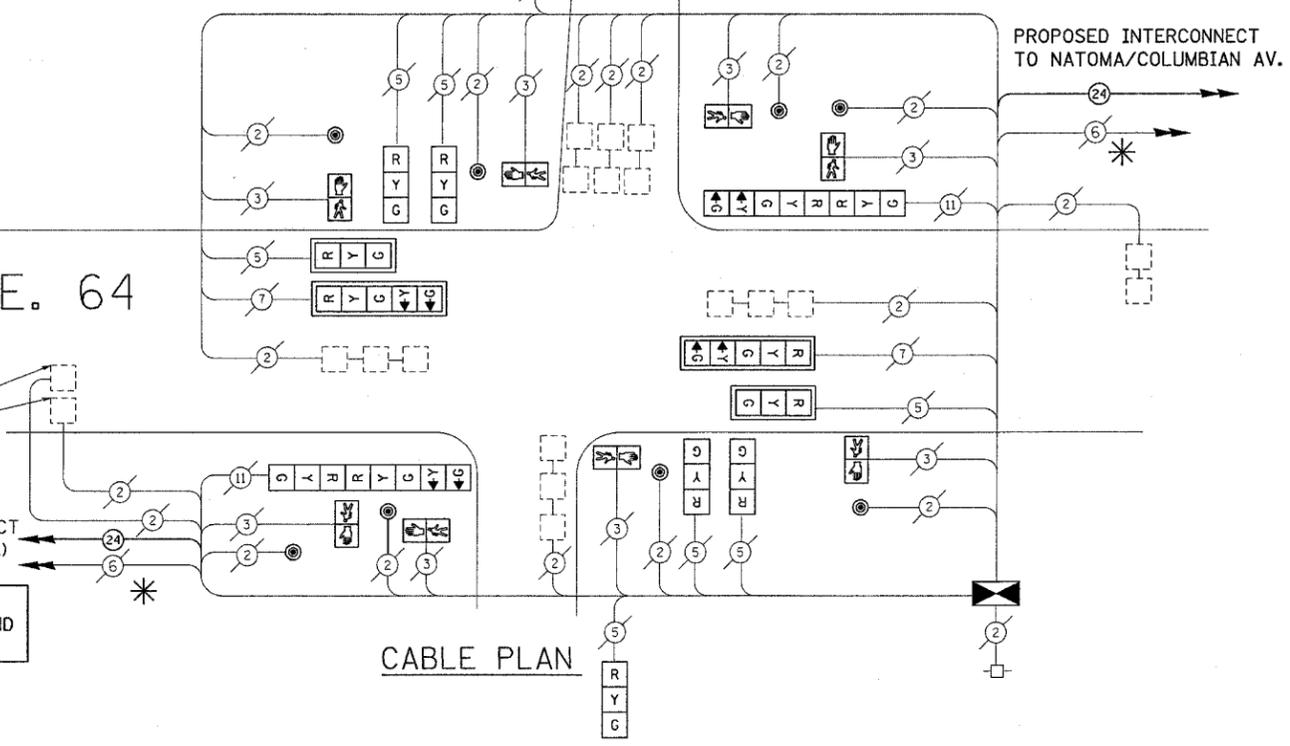
### CABLE PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE	[Symbol]	[Symbol]
FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED	[Symbol]	[Symbol]
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS NOTED	[Symbol]	[Symbol]
GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)	[Symbol]	[Symbol]
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD	[Symbol]	[Symbol]
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE	[Symbol]	[Symbol]
12" (300mm) TRAFFIC SIGNAL SECTION	[Symbol]	[Symbol]
12" (300mm) PEDESTRIAN SIGNAL SECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN "NO RIGHT TURN"	[Symbol]	[Symbol]
PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
PERFORMED DETECTOR LOOP	[Symbol]	[Symbol]
MICROWAVE VEHICLE SENSOR	[Symbol]	[Symbol]
VIDEO DETECTOR	[Symbol]	[Symbol]
CLOSED CIRCUIT TV	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]

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

\* EXISTING 3 PAIR NO. 18 SHALL REMAIN IN ACT OF TRACER CABLE.

### CABLE PLAN



### SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY.
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	.045
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	.045
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	.045
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5, SECTION BRACKET	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MNTD.	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MNTD.	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	8
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	9
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	EACH	4

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE		% OPERATION		
SIGNAL (RED)	14	135	17	0.50	119.00	
	(YELLOW)	18	135	25	0.25	112.5
	(GREEN)	16	135	15	0.25	60.00
ARROW	8	135	12	0.10	9.60	
PED. SIGNAL		90	25	1.00		
CONTROLLER		100	100	1.00		
ILLUM. SIGN		84		0.05		
FLASHER				0.50		
ENERGY COSTS TO:					TOTAL = 301.10	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196-1096  
 ENERGY SUPPLY CONTACT: LARRY D. SHANK  
 PHONE: (847) 291-3214  
 COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' H-2' (6m H-0.6m)
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

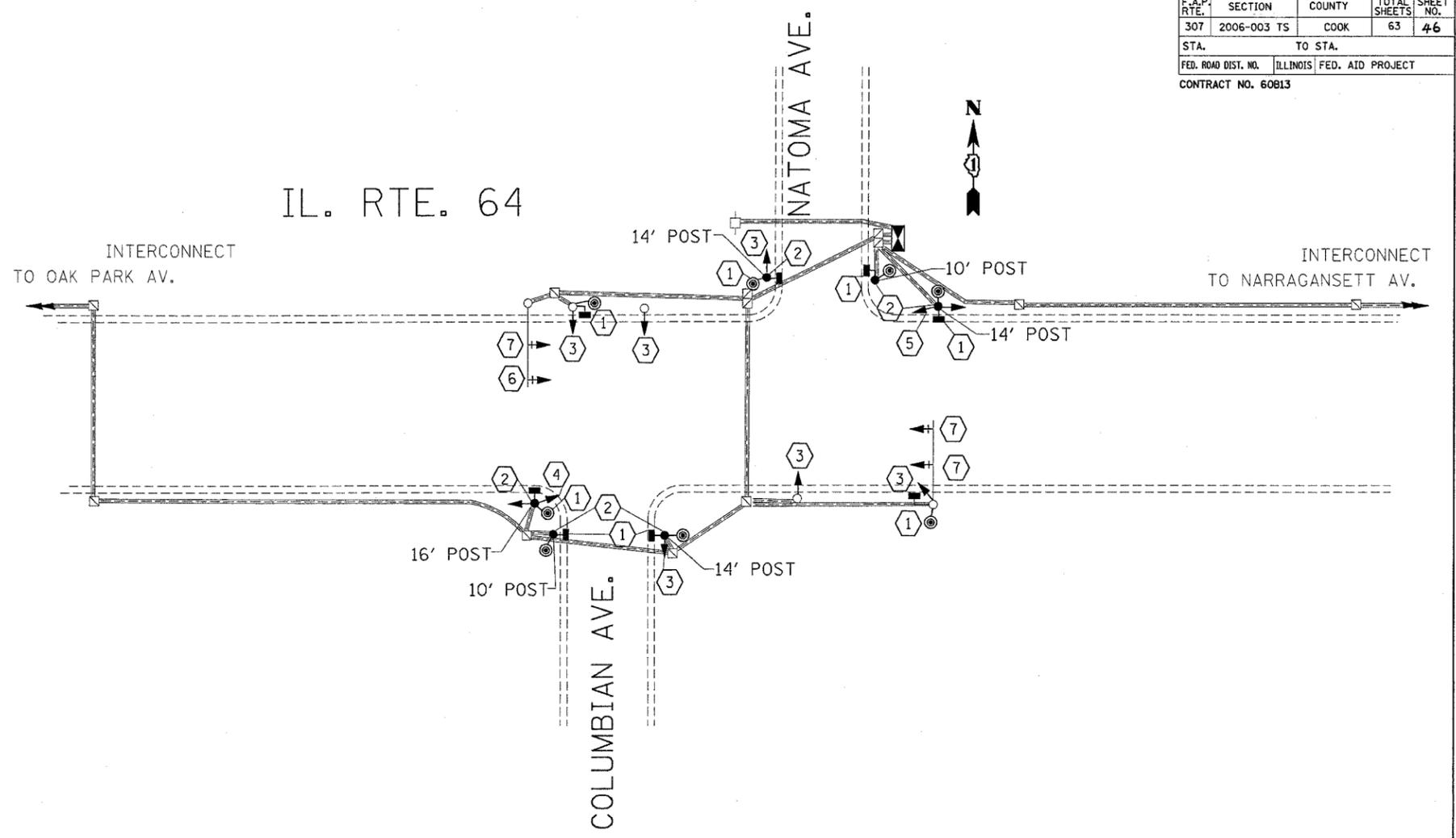
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		PROPOSED CABLE PLAN FOR ILL. RTE. 64 (NORTH AVE.) AT OAK PARK AVE.

SCALE: NONE  
 DATE 6/23/2006  
 DRAWN BY BCK  
 DESIGNED BY BCK  
 CHECKED BY DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	46
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60813				

**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING
CONTROLLER CABINET	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
ILLUMINATED SIGN "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN "NO RIGHT TURN"	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
STEEL MAST ARM ASSEMBLY AND POLE	[Symbol]	[Symbol]
ALUMINUM MAST ARM ASSEMBLY AND POLE	[Symbol]	[Symbol]
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	[Symbol]	[Symbol]
JUNCTION BOX	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
COMMON TRENCH	CT	[Symbol]
UNIT DUCT	UB	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP, TYPE I	[Symbol]	[Symbol]
PREFORMED DETECTOR LOOP	[Symbol]	[Symbol]
MICROWAVE VEHICLE SENSOR	[Symbol]	[Symbol]
VIDEO DETECTOR	[Symbol]	[Symbol]
CLOSED CIRCUIT TV	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]



- ① REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS AND REPLACE WITH NEW L.E.D. SYMBOL.
- ② REMOVE EXISTING SIGNAL POST AND REPLACE WITH NEW GALVANIZED SIGNAL POST USING EXISTING FOUNDATION.
- ③ REMOVE EXISTING 1 FACE 3-SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 1 FACE 3-SECTION SIGNAL HEAD.
- ④ REMOVE EXISTING 2-FACE, 1-3 SECTION, 1-5 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 1-3-SECTION, 1-5 SECTION SIGNAL HEAD.
- ⑤ REMOVE EXISTING 2-FACE, 2-3 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 2-3 SECTION
- ⑥ REMOVE EXISTING 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED
- ⑦ REMOVE EXISTING 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED

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

- 6 EACH SIGNAL HEAD, 3-SECTION
- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION MAST ARM MNTD.
- 1 EACH SIGNAL HEAD, 1-FACE, 5-SECTION MAST ARM MNTD.
- 1 EACH SIGNAL HEAD, 2 FACE, 2-3 SECTION
- 1 EACH SIGNAL HEAD, 2 FACE, 1-3 SECTION, 1-5 SECTION
- 8 EACH PEDESTRIAN PUSH-BUTTONS
- 8 EACH PEDESTRIAN SIGNAL HEADS
- 2 EACH 10' SIGNAL POST
- 3 EACH 14' SIGNAL POSTS
- 1 EACH 16' SIGNAL POSTS
- 4 EACH BACKPLATE

**RESTORATION OF WORK AREA.** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

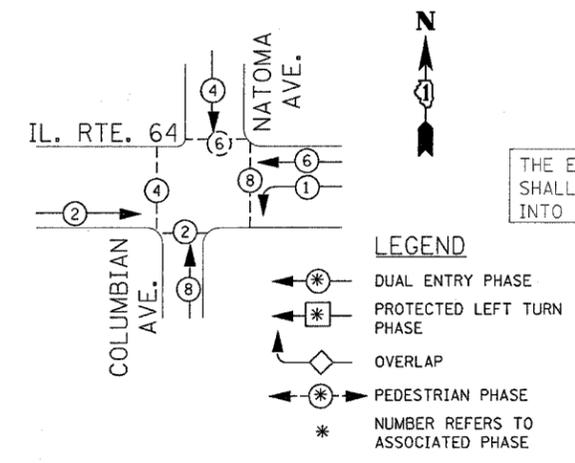
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL MODIFICATION**  
 ILL. RTE. 64 (NORTH AVE.) AT  
 NATOMA AV./ COLUMBIAN AVE.  
 SCALE: 1"=20'  
 DATE 6/23/2006  
 DRAWN BY BCK  
 DESIGNED BY BCK  
 CHECKED BY DAD

6/23/2006 10:50:01 AM I:\Projects\60813\60813.dgn  
 07:42:55 06/23/2006

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	47
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

### CONTROLLER SEQUENCE



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

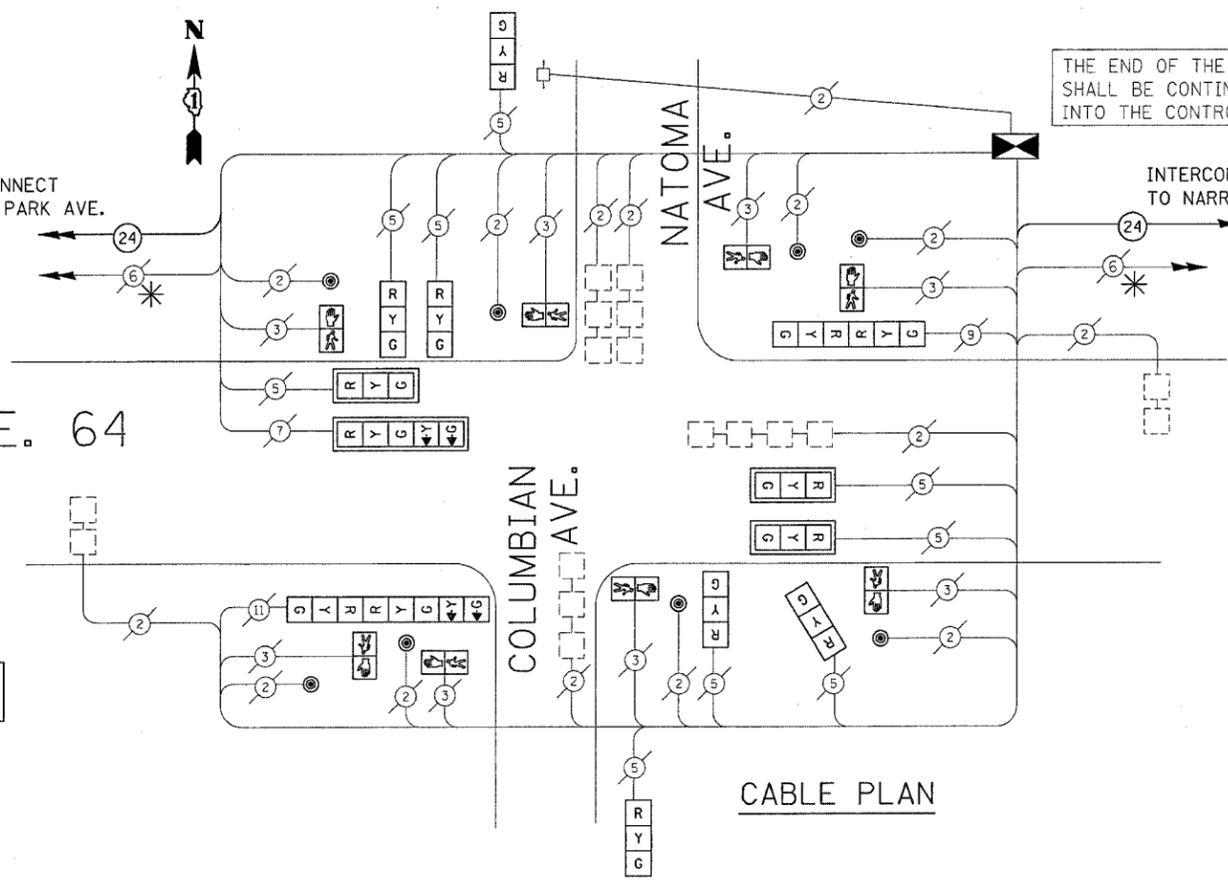
\* EXISTING 3 PAIR NO. 18 SHALL REMAIN IN ACT OF TRACER CABLE.

IL. RTE. 64

INTERCONNECT TO OAK PARK AVE.

INTERCONNECT TO NARRAGANSETT AV.

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



### CABLE PLAN

### CABLE PLAN LEGEND

PROPOSED	EXISTING

### SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY.
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	.045
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	.045
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	.045
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, MAST ARM MNTED.	EACH	3
SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, MAST ARM MNTED.	EACH	1
SIGNAL HEAD ,LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD ,LED, 2-FACE, 1-3 SECTION, 1-5, SECTION BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	8
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCIEVER - FIBER OPTIC	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	EACH	4

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
24\" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30\" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.00
(YELLOW)	16	135	25	0.25	100.00
(GREEN)	14	135	15	0.25	52.50
ARROW	4	135	12	0.10	4.80
PED. SIGNAL		90	25	1.00	
CONTROLLER		100	100	1.00	
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 276.30

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

CONTACT: LARRY D. SHANK  
PHONE: (847) 291-3214  
COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED CABLE PLAN FOR ILL. RTE. 64 (NORTH AVE.) AT NATOMA AV./ COLUMBIAN AVE.

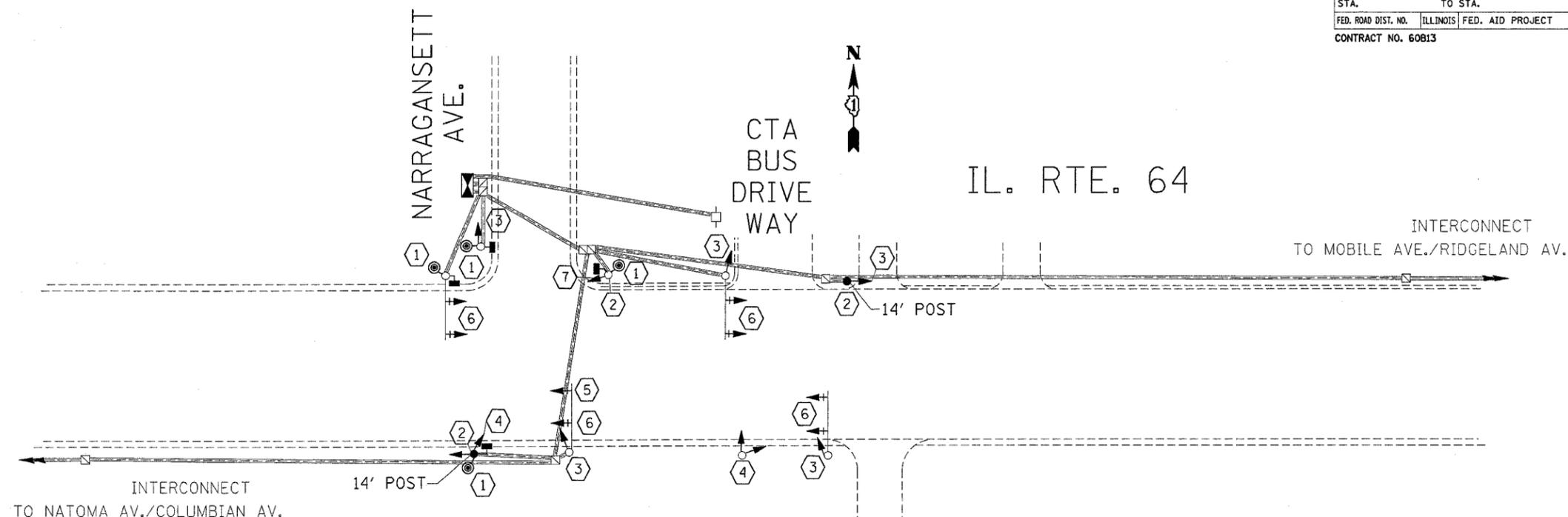
SCALE: NONE  
DATE 6/23/2006

DRAWN BY BCK  
DESIGNED BY BCK  
CHECKED BY BCK  
DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	48
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60813				

### TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET		
RAILROAD CONTROL CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED		
SIGNAL HEAD PEDESTRIAN		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		
SIGNAL POST		
WOOD POLE		
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
JUNCTION BOX		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
COMMON TRENCH	CT	
UNIT DUCT	UD	
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP		
MICROWAVE VEHICLE SENSOR		
VIDEO DETECTOR		
CLOSED CIRCUIT TV		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		



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

- 5 EACH SIGNAL HEAD, 3-SECTION
- 1 EACH SIGNAL HEAD, 5-SECTION
- 7 EACH SIGNAL HEAD, 3-SECTION, MAST ARM MNTD.
- 1 EACH SIGNAL HEAD, 5-SECTION, MAST ARM MNTD.
- 2 EACH SIGNAL HEAD, 2 FACE, 2-3 SECTION
- 4 EACH PEDESTRIAN PUSH-BUTTONS
- 4 EACH PEDESTRIAN SIGNAL HEADS
- 2 EACH 14' SIGNAL POSTS

- ① REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS AND REPLACE WITH NEW L.E.D. SYMBOL.
- ② REMOVE EXISTING SIGNAL POST AND REPLACE WITH NEW GALVANIZED SIGNAL POST USING EXISTING FOUNDATION.
- ③ REMOVE EXISTING 1 FACE 3-SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 1 FACE 3-SECTION SIGNAL HEAD.
- ④ REMOVE EXISTING 2-FACE, 2-3 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 2-3 SECTION
- ⑤ REMOVE EXISTING 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED
- ⑥ REMOVE EXISTING 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED
- ⑦ REMOVE EXISTING 1-FACE, 5-SECTION SIGNAL HEAD BRACKET MNTD. AND REPLACE WITH NEW L.E.D. 1-FACE, 5-SECTION SIGNAL HEAD BRACKET MNTD.

**RESTORATION OF WORK AREA.** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

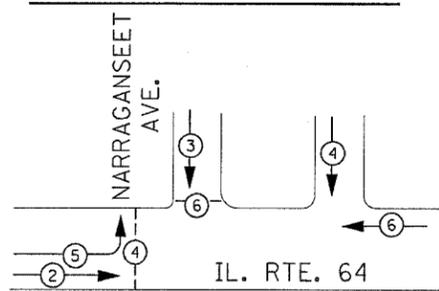
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL MODIFICATION**  
**ILL. RTE. 64 (NORTH AVE.) AT**  
**NARRAGANSETT AVE.**

SCALE: 1"=20'  
DATE 6/23/2006

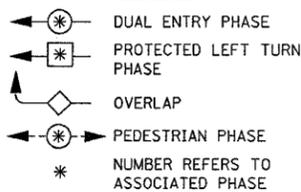
DRAWN BY BCK  
DESIGNED BY BCK  
CHECKED BY DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60813				

### CONTROLLER SEQUENCE



### LEGEND

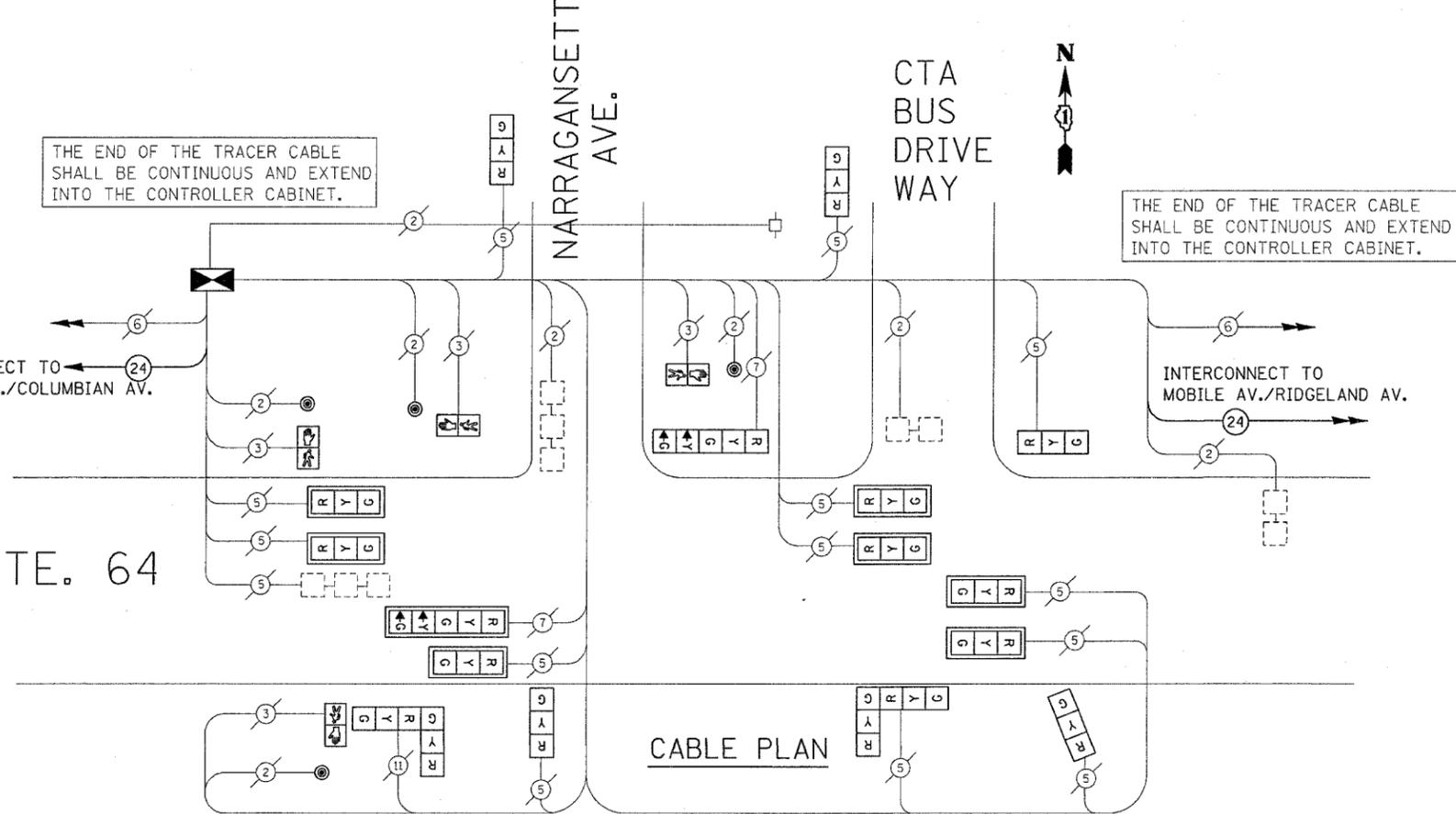


THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

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

IL. RTE. 64

### CABLE PLAN



### CABLE PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET		
RAILROAD CONTROL CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		
FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED		
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED		
GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)		
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		
12" (300mm) TRAFFIC SIGNAL SECTION		
12" (300mm) PEDESTRIAN SIGNAL SECTION		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		
PUSHBUTTON DETECTOR		
DETECTOR LOOP		
PERFORMED DETECTOR LOOP		
MICROWAVE VEHICLE SENSOR		
VIDEO DETECTOR		
CLOSED CIRCUIT TV		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		

### SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY.
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	.045
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	.045
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	.045
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MNTED.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MNTED.	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MNTED.	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
FULL-ACTUATED CONTROLLER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	EACH	8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18	135	17	0.50	153.00
(YELLOW)	20	135	25	0.25	125.00
(GREEN)	20	135	15	0.25	75.00
ARROW	4	135	12	0.10	4.80
PED. SIGNAL		90	25	1.00	
CONTROLLER		100	100	1.00	
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 357.80

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2' =
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m+L-0.6m) =	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
		<p>PROPOSED CABLE PLAN FOR ILL. RTE. 64 (NORTH AVE.) AT NARRAGANSETT AVE.</p> <p>SCALE: NONE DATE 6/23/2006</p> <p>DRAWN BY BCK DESIGNED BY BCK CHECKED BY DAD</p>	

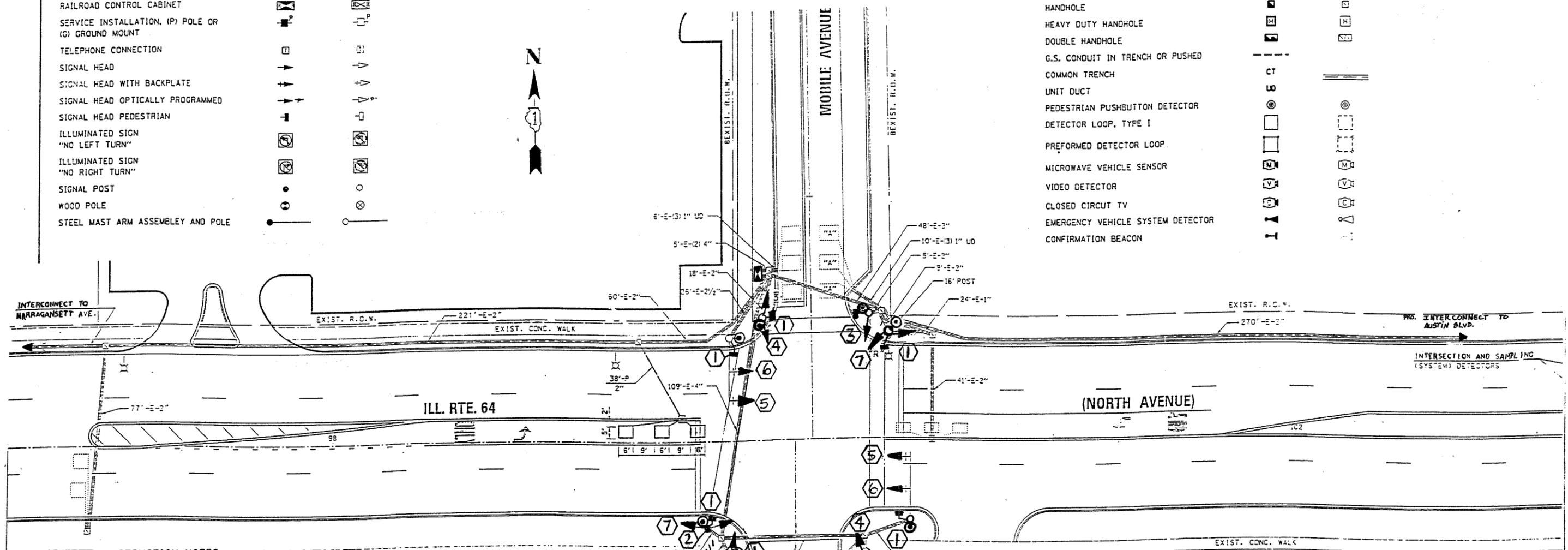
6/23/2006 10:05:11 AM C:\p1\proj\105001\4111c4e1\figelamd.dgn

10/13/11 06:23/2006

**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING
CONTROLLER CABINET	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
ILLUMINATED SIGN "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN "NO RIGHT TURN"	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
STEEL MAST ARM ASSEMBLY AND POLE	[Symbol]	[Symbol]

ALUMINUM MAST ARM ASSEMBLY AND POLE	[Symbol]
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	[Symbol]
JUNCTION BOX	[Symbol]
HANDHOLE	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]
DOUBLE HANDHOLE	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]
COMMON TRENCH	[Symbol]
UNIT DUCT	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]
DETECTOR LOOP, TYPE I	[Symbol]
PREFORMED DETECTOR LOOP	[Symbol]
MICROWAVE VEHICLE SENSOR	[Symbol]
VIDEO DETECTOR	[Symbol]
CLOSED CIRCUIT TV	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]
CONFIRMATION BEACON	[Symbol]



**CONSTRUCTION NOTES:**

- 1 REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS AND REPLACE WITH NEW L.E.D. SIGNAL HEADS.
- 2 REMOVE EXISTING SIGNAL POST AND REPLACE WITH NEW SIGNAL POST.
- 3 REMOVE EXISTING 1 FACE 3-SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 1 FACE 3-SECTION SIGNAL HEAD.
- 4 REMOVE EXISTING 2-FACE, 2-3 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 2-3 SECTION
- 5 REMOVE EXISTING 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED
- 6 REMOVE EXISTING 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED
- 7 REMOVE EXISTING 2-FACE, 1-3 SECTION, 1-5 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 1-3-SECTION, 1-5 SECTION SIGNAL HEAD.

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

- |   |      |   |
|---|------|---|
| 2 | EACH | SIGNAL HEAD, 3-SECTION                        |
| 2 | EACH | SIGNAL HEAD, 3-SECTION, MAST ARM MNTD.        |
| 2 | EACH | SIGNAL HEAD, 5-SECTION, MAST ARM MNTD.        |
| 2 | EACH | SIGNAL HEAD, 2-FACE, 3-SECTION                |
| 2 | EACH | SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION |
| 8 | EACH | PEDESTRIAN PUSH-BUTTONS                       |
| 8 | EACH | PEDESTRIAN SIGNAL HEADS                       |
| 1 | EACH | 14' SIGNAL POSTS                              |

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL MODIFICATION AND REMOVAL PLAN**  
 ILL. RTE. 64 (NORTH AVENUE) AND RIDGELAND AVENUE/ MOBILE AVENUE  
 SCALE: VERT. NTS  
 HORIZ. NTS  
 DATE 6/19/06  
 DRAWN BY BCP  
 DESIGNED BY BCP  
 CHECKED BY BCP

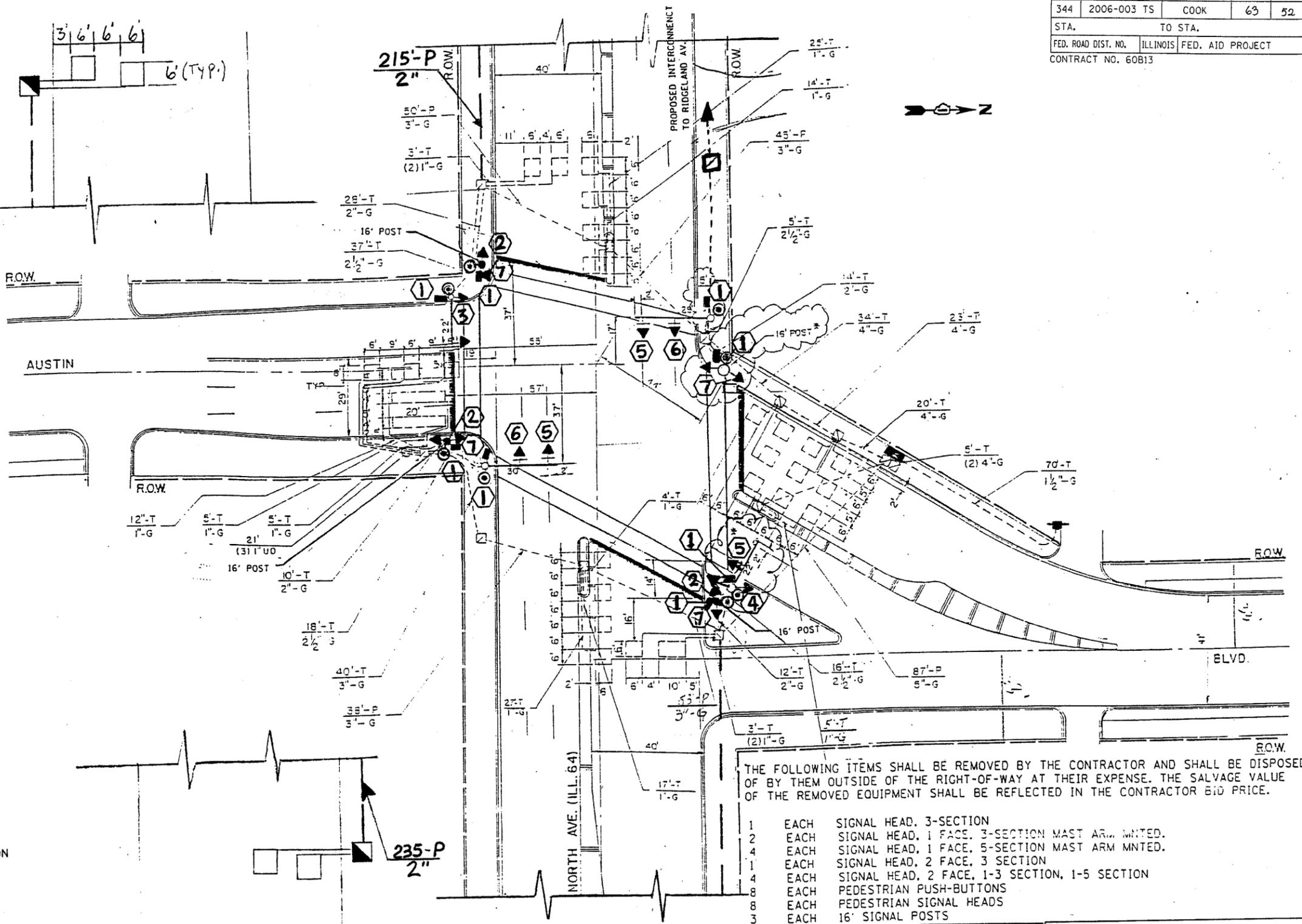


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	52
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

**TRAFFIC SIGNAL LEGEND**

- |   |                 |                 |
|---|-----------------|-----------------|
|   | <b>PROPOSED</b> | <b>EXISTING</b> |
| CONTROLLER CABINET  |                 |                 |
| RAILROAD CONTROL CABINET                                    |                 |                 |
| SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT          |                 |                 |
| TELEPHONE CONNECTION  |                 |                 |
| SIGNAL HEAD   |                 |                 |
| SIGNAL HEAD WITH BACKPLATE                                  |                 |                 |
| SIGNAL HEAD OPTICALLY PROGRAMMED                            |                 |                 |
| SIGNAL HEAD PEDESTRIAN                                      |                 |                 |
| ILLUMINATED SIGN "NO LEFT TURN"                             |                 |                 |
| ILLUMINATED SIGN "NO RIGHT TURN"                            |                 |                 |
| SIGNAL POST   |                 |                 |
| WOOD POLE   |                 |                 |
| STEEL MAST ARM ASSEMBLY AND POLE                            |                 |                 |
| ALUMINUM MAST ARM ASSEMBLY AND POLE                         |                 |                 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE |                 |                 |
| JUNCTION BOX  |                 |                 |
| HANDHOLE  |                 |                 |
| HEAVY DUTY HANDHOLE   |                 |                 |
| DOUBLE HANDHOLE   |                 |                 |
| G.S. CONDUIT IN TRENCH OR PUSHED                            |                 |                 |
| COMMON TRENCH   |                 |                 |
| UNIT DUCT   |                 |                 |
| PEDESTRIAN PUSHBUTTON OR MOTOR                              |                 |                 |
| DETECTOR LOOP, TYPE I                                       |                 |                 |
| PERFORMED DETECTOR  |                 |                 |
| MICROWAVE VEHICLE   |                 |                 |
| VIDEO DETECTOR  |                 |                 |
| CLOSURE CIRCUIT   |                 |                 |
| EMERGENCY VEHICLE SIGNAL HEADS                              |                 |                 |
| CONFIRMATION BEACON   |                 |                 |
| CONSTRUCTION STES:  |                 |                 |

- 1 REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS AND REPLACE WITH NEW L.E.D. SIGNAL HEADS.
- 2 REMOVE EXISTING SIGNAL POST AND REPLACE WITH NEW SIGNAL POST.
- 3 REMOVE EXISTING 1 FACE 3-SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 1 FACE 3-SECTION SIGNAL HEAD.
- 4 REMOVE EXISTING 2-FACE, 2-3 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 2-3 SECTION SIGNAL HEAD.
- 5 REMOVE EXISTING 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 5-SECTION SIGNAL HEAD MAST ARM MOUNTED.
- 6 REMOVE EXISTING 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED AND REPLACE WITH NEW L.E.D. 1-FACE, 3-SECTION SIGNAL HEAD MAST ARM MOUNTED.
- 7 REMOVE EXISTING 2-FACE, 1-3 SECTION, 1-5 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 1-3-SECTION, 1-5 SECTION SIGNAL HEAD.
- 8 REMOVE EXISTING 2-FACE, 2-3 SECTION SIGNAL HEAD AND REPLACE WITH NEW L.E.D. 12" 2-FACE, 2-3 SECTION SIGNAL HEAD.



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

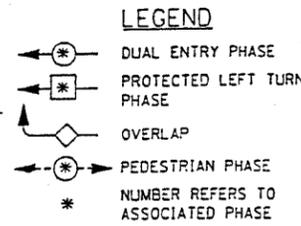
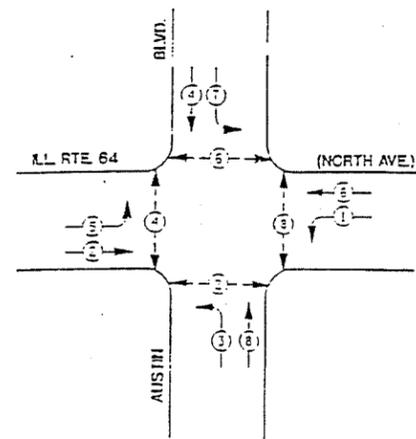
- |   |      |  |
|---|------|--|
| 1 | EACH | SIGNAL HEAD, 3-SECTION                         |
| 2 | EACH | SIGNAL HEAD, 1 FACE, 3-SECTION MAST ARM MNTED. |
| 4 | EACH | SIGNAL HEAD, 1 FACE, 5-SECTION MAST ARM MNTED. |
| 1 | EACH | SIGNAL HEAD, 2 FACE, 3 SECTION                 |
| 4 | EACH | SIGNAL HEAD, 2 FACE, 1-3 SECTION, 1-5 SECTION  |
| 8 | EACH | PEDESTRIAN PUSH-BUTTONS                        |
| 8 | EACH | PEDESTRIAN SIGNAL HEADS                        |
| 3 | EACH | 16' SIGNAL POSTS                               |

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOO AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL MODIFICATION  
 AND REMOVAL PLAN  
 IL. RTE. 64 (NORTH AVENUE)  
 AND  
 AUSTIN BLVD.  
 SCALE: VERT. NTS  
 HORIZ. 1"=40'  
 DATE 6/19/06  
 DRAWN BY [Signature]  
 DESIGNED BY [Signature]  
 CHECKED BY [Signature]

### CONTROLLER SEQUENCE

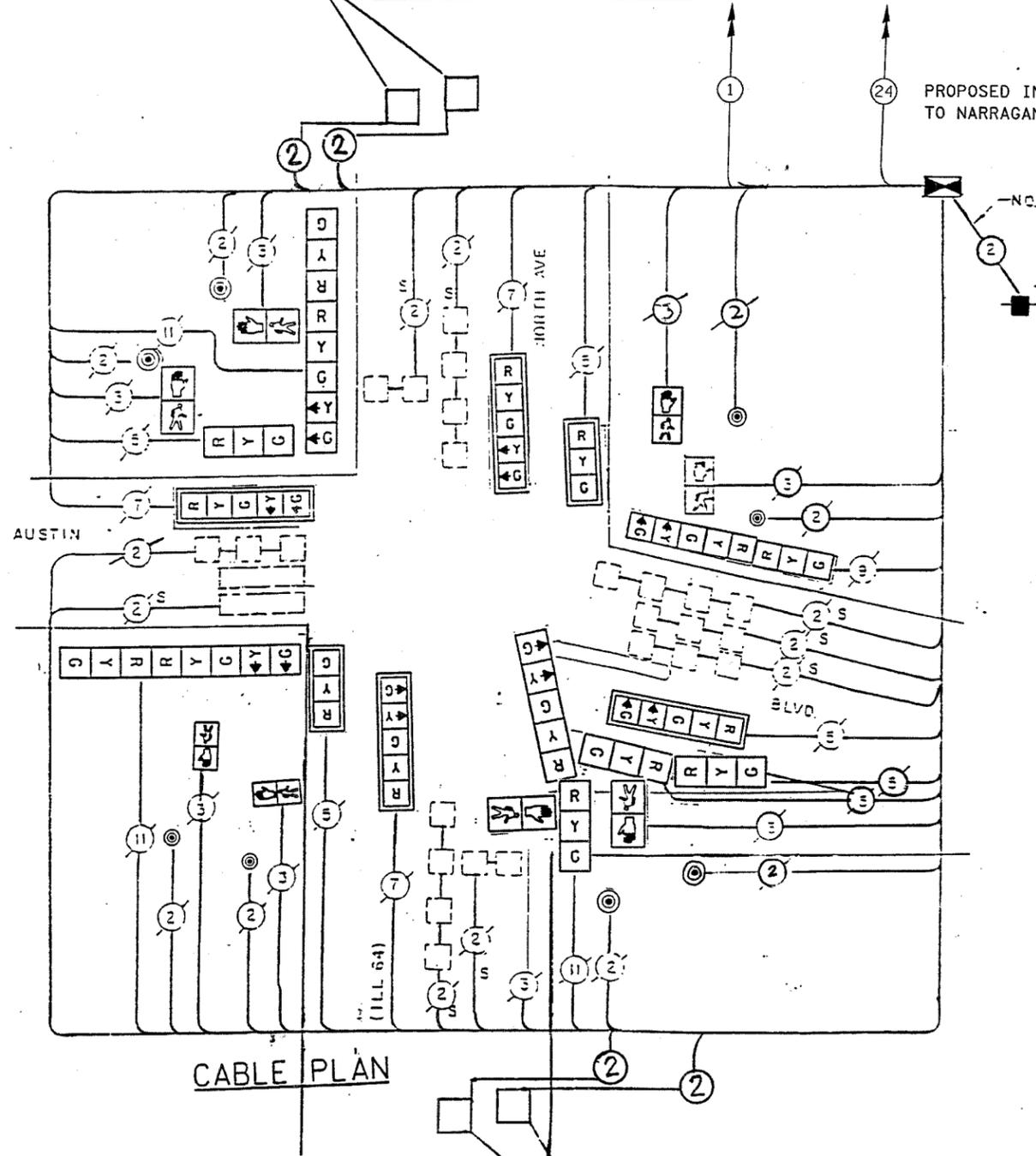


### SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY.
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	.045
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	.045
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	.045
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	450
HANDHOLE	EACH	2
SIDEWALK REMOVAL	SQ.FT.	80
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
PEDESTRIAN PUSH-BUTTON	EACH	8
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MNTED.	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MNTED.	EACH	4
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5, SECTION BRACKET MOUNTED	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	13
DETECTOR LOOP, TYPE 1	FOOT	135
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	70
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	70
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	810
SERVICE INSTALLATION, POLE MOUNT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	70
TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	FOOT	6

### PROPOSED INTERSECTION AND SAMPLING (SYSTEM) LOOPS

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



### CABLE PLAN

### CABLE PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET		
RAILROAD CONTROL CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		
FIBER OPTIC CABLE IN CONDUIT NUMBER OF FIBERS AS NOTED		
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED NUMBER OF CABLES AS NOTED		
GROUND CABLE IN CONDUIT NO. 6 COPPER (WIRE)		
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		
12" (300mm) TRAFFIC SIGNAL SECTION		
12" (300mm) PEDESTRIAN SIGNAL SECTION		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "RIGHT TURN"		
PUSHBUTTON DETECTOR		
DETECTOR LOOP		
PREFORMED DETECTOR LOOP		
MICROWAVE VEHICLE SENSOR		
VIDEO DETECTOR		
CLOSED CIRCUIT TV		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	9	135	17	0.50	76.50
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	12	135	15	0.25	45.00
ARROW	6	135	12	0.10	7.20
PED. SIGNAL		90	25	1.00	
CONTROLLER		100	100	1.00	
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO: TOTAL =					197.45

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	HALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)±
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

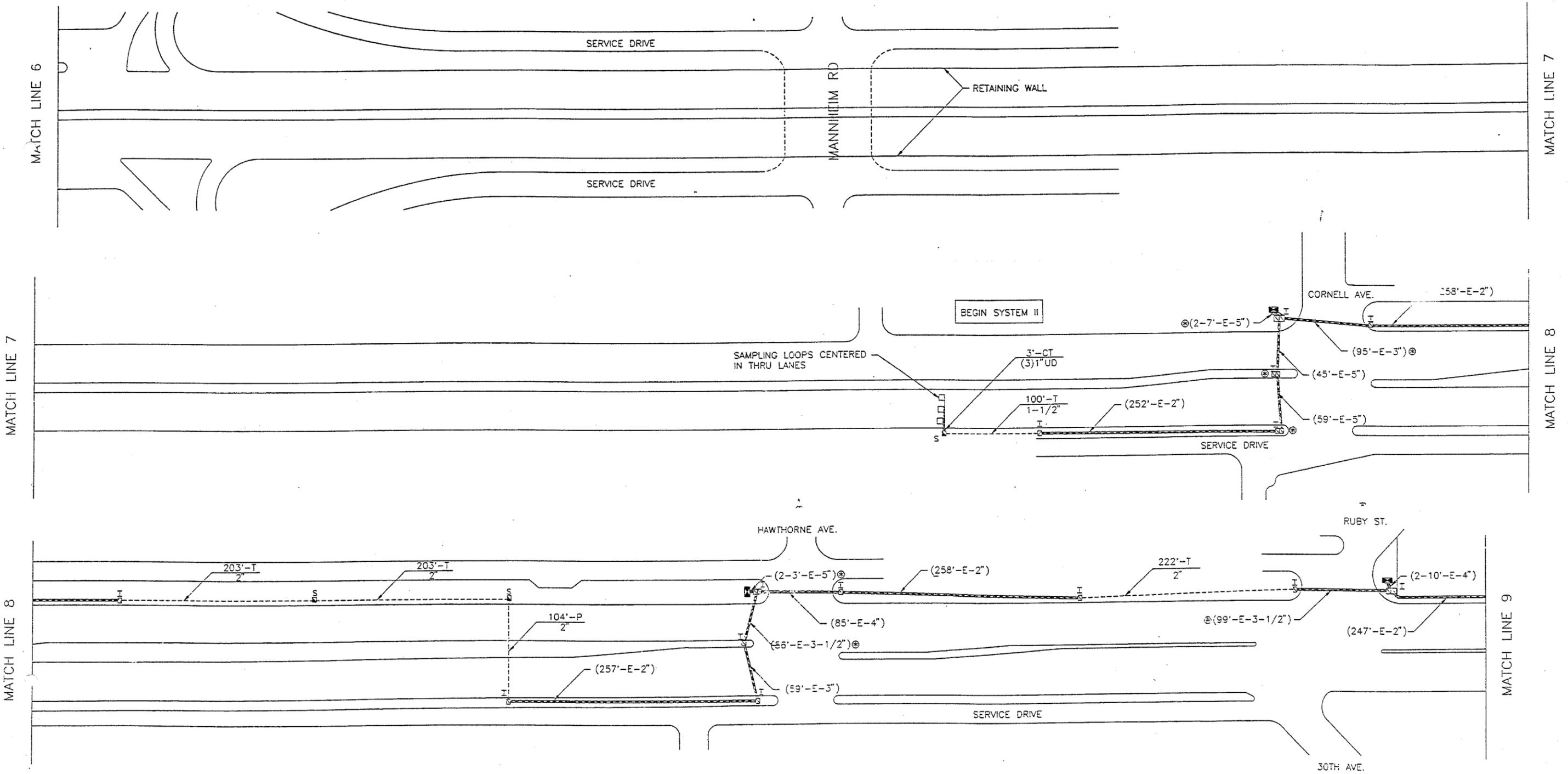
NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 SCHEDULE OF QUANTITIES  
 IL. RTE. 64 (NORTH AVENUE)  
 AND  
 AUSTIN BLVD.  
 SCALE: VERT. NTS  
 HORIZ.  
 DATE 6/19/06  
 DRAWN BY: BCK  
 DESIGNED BY: BCK  
 CHECKED BY: BCK

**PROPOSED FIBER OPTIC INTERCONNECT  
RE-USING EXISTING CONDUIT.**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	54
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				



**INTERCONNECT PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
SYSTEM	[Symbol]	[Symbol]
INTERSECTION	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
PUSH PIT	[Symbol]	[Symbol]



REVISIONS	
NAME	DATE
① JON RINGLER	4-13-93

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERCONNECT PLAN**  
 ILL. ROUTE 64 (NORTH)

SCALE: 1"=50'  
 DATE: 06/19/2006

DRAWN BY: BCK  
 DESIGNED BY: BCK  
 CHECKED BY: DAD

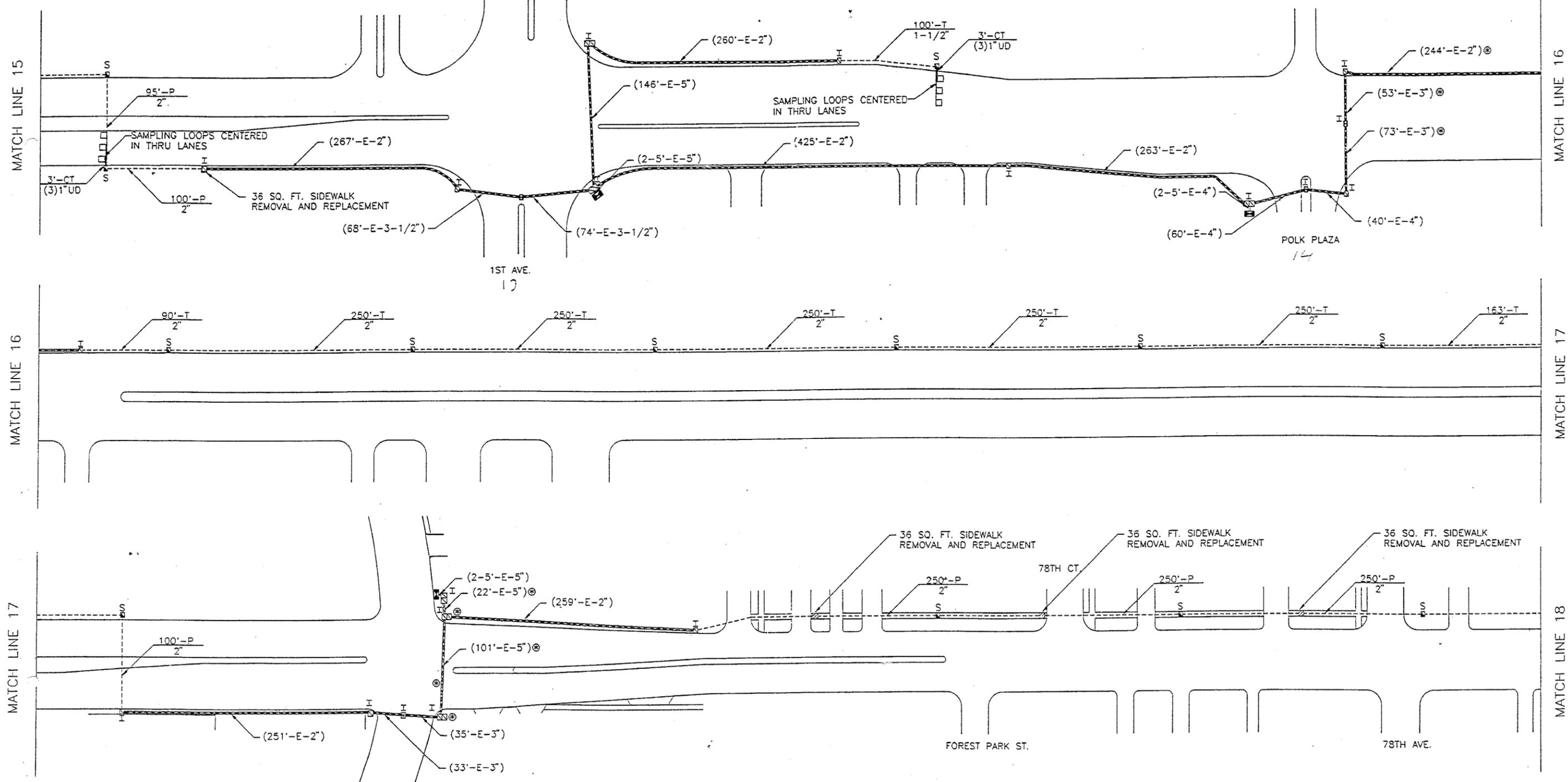
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	57
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60B13				

**PROPOSED FIBER OPTIC INTERCONNECT  
RE-USING EXISTING CONDUIT.**



**INTERCONNECT PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT SYSTEM	[Symbol]	[Symbol]
INTERSECTION	[Symbol]	[Symbol]
HEAVYDUTY HANDHOLE	[Symbol]	[Symbol]
PUSH PIT	[Symbol]	[Symbol]

REVISIONS	
NAME	DATE
JON RINCLER	4-13-93

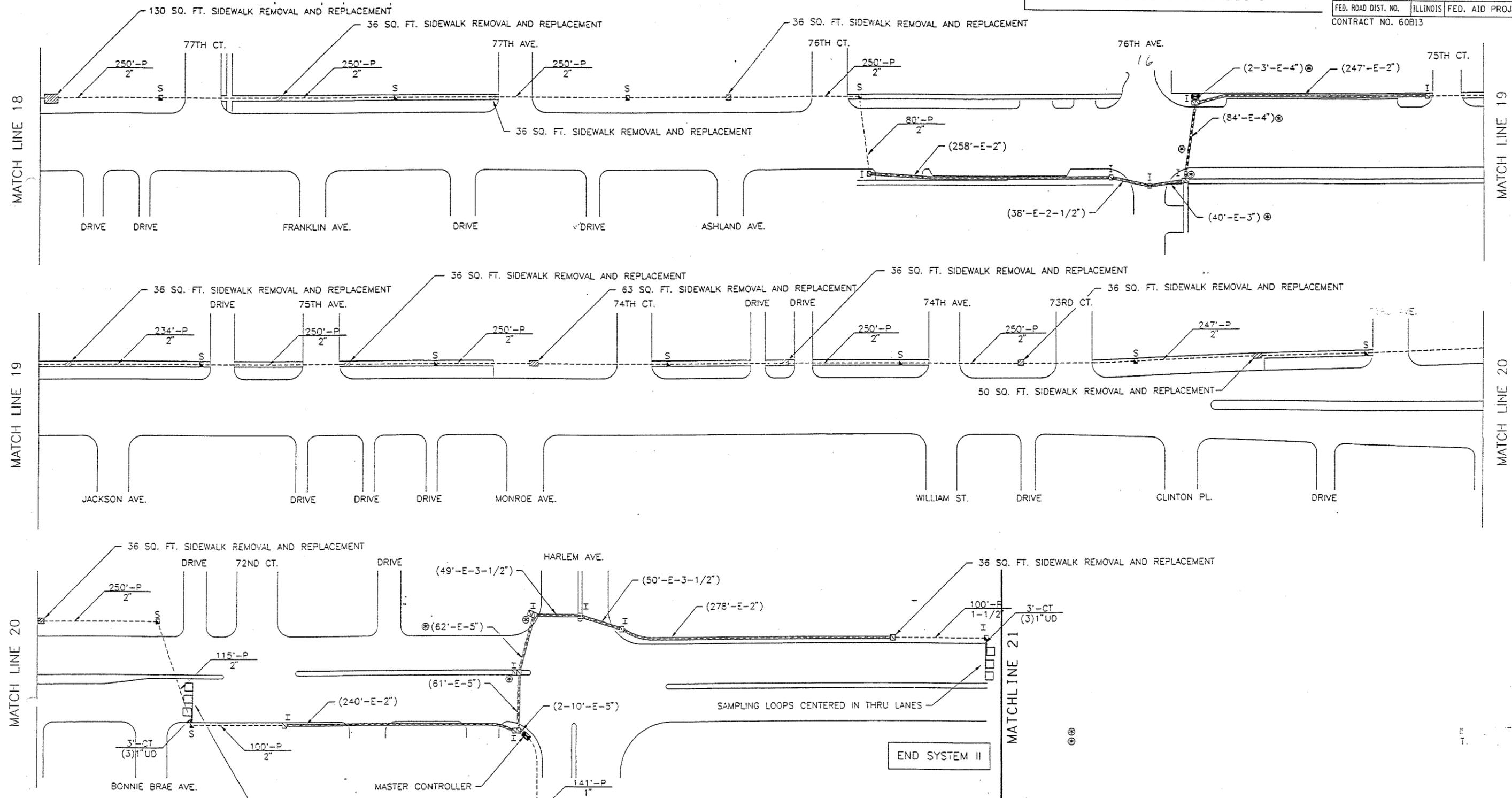
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERCONNECT PLAN**  
 ILL. ROUTE 64 (NORTH)

SCALE: 1"=50'  
 DATE: 06/19/2006

DRAWN BY: BCK  
 DESIGNED BY: BCK  
 CHECKED BY: DAD

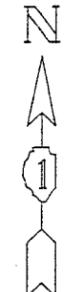
**PROPOSED FIBER OPTIC INTERCONNECT  
RE-USING EXISTING CONDUIT.**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	58
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				



**INTERCONNECT PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER HANDHOLE	⊠	⊠
DOUBLE HANDHOLE	⊠	⊠
G.S. CONDUIT IN TRENCH OR PUSHED	—	—
DETECTOR LOOP	□	□
COMMON TRENCH	□	□
UNIT DUCT	□	□
SYSTEM	□	□
INTERSECTION	⊠	⊠
HEAVYDUTY HANDHOLE	⊠	⊠
PUSH PIT	⊠	⊠



NOTE: TELEPHONE CABLE TO BE SUPPLIED BY ILLINOIS BELL TELEPHONE FROM THE UTILITY POLE TO THE CONTROLLER CABINET.

REVISIONS	
NAME	DATE
⊠ JON RINGLER	4-13-93

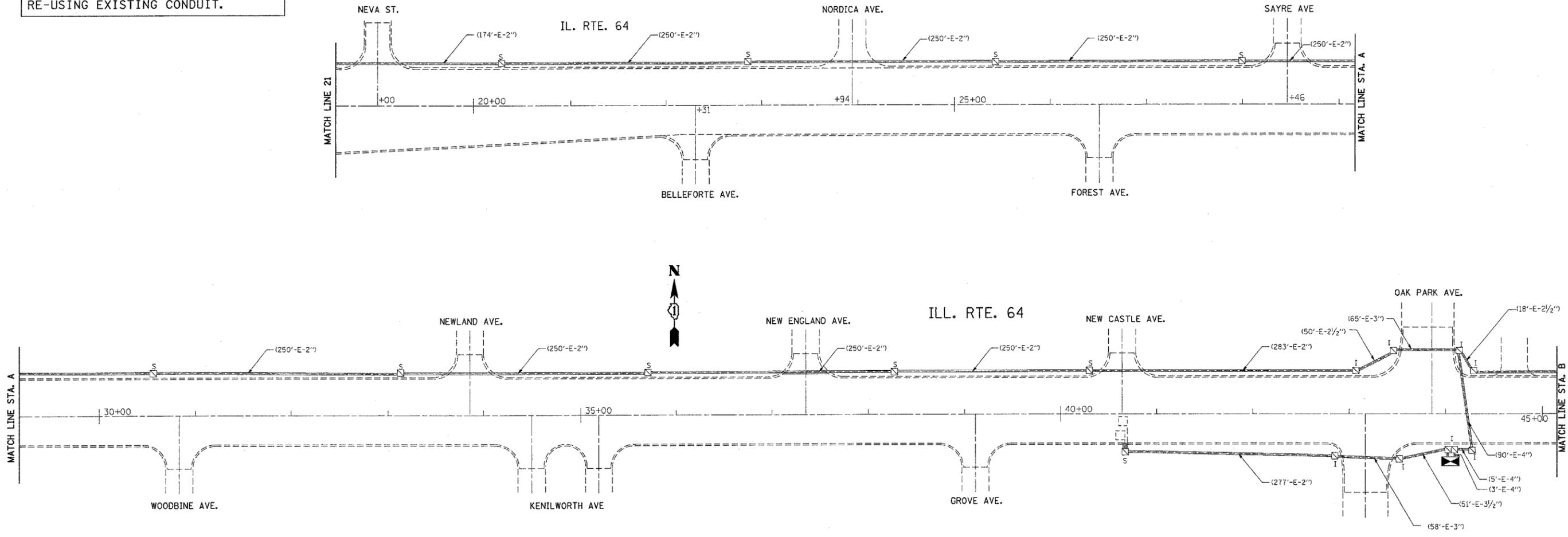
ILLINOIS DEPARTMENT OF TRANSPORTATION  
INTERCONNECT PLAN  
ILL. ROUTE 64 (NORTH)

SCALE: 1"=50'  
DATE: 06/19/2006

DRAWN BY: BCK  
DESIGNED BY: BCK  
CHECKED BY: DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	59
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60B13				

PROPOSED FIBER OPTIC INTERCONNECT  
RE-USING EXISTING CONDUIT.



**INTERCONNECT PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
SYSTEM	S	I
INTERSECTION	IP	I
UNIT DUCT	UD	
COMMON TRENCH	CT	
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP		

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERCONNECT PLAN**  
ILL. RTE. 64  
FROM NEVA ST. TO OAK PARK AV.  
SCALE: VERT. 1" = 50'  
HORIZ. 1" = 50'  
DATE 6/23/2006  
DRAWN BY BCK  
DESIGNED BY: BCK  
CHECKED BY DAD

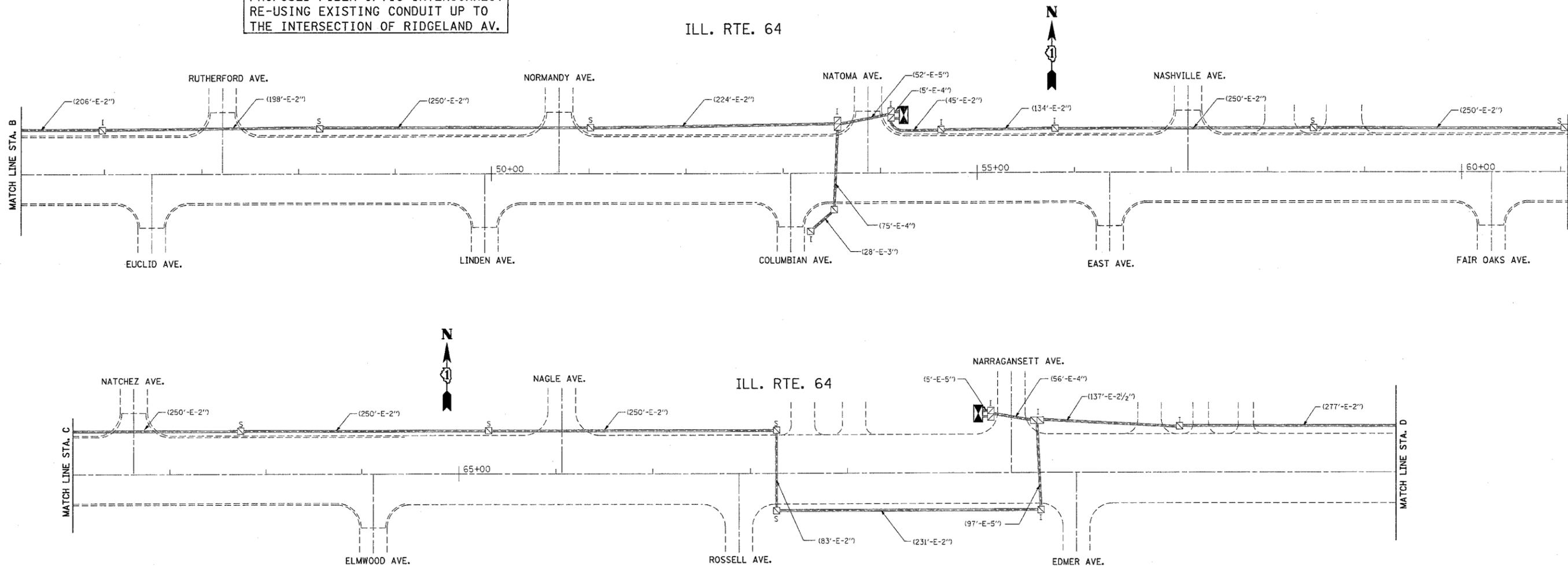
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 PLOT SCALE = 1/8" = 1' / IN.  
 USER NAME = hantphueqbo

07:44:13 06/23/2006

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	59	60
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

PROPOSED FIBER OPTIC INTERCONNECT  
RE-USING EXISTING CONDUIT UP TO  
THE INTERSECTION OF RIDGELAND AV.

ILL. RTE. 64



**INTERCONNECT PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
SYSTEM	S	I
INTERSECTION	IP	I
UNIT DUCT	UD	
COMMON TRENCH	CT	
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP		

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECT PLAN**  
ILL. RTE. 64  
FROM EUCLID AV. TO EDMER AV.

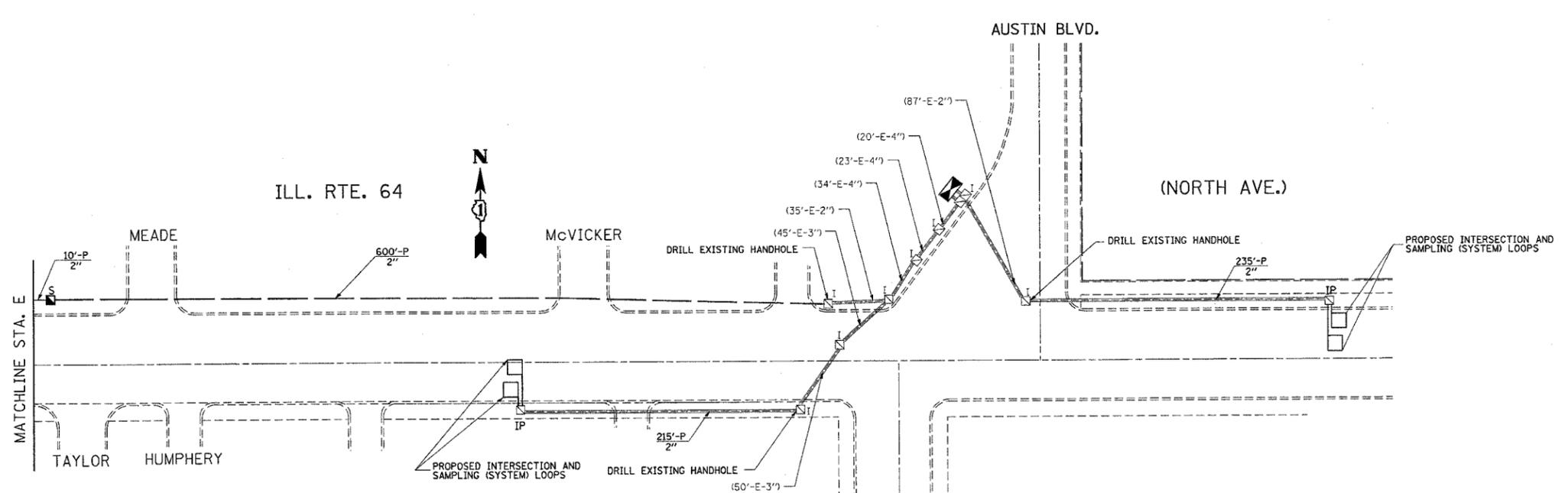
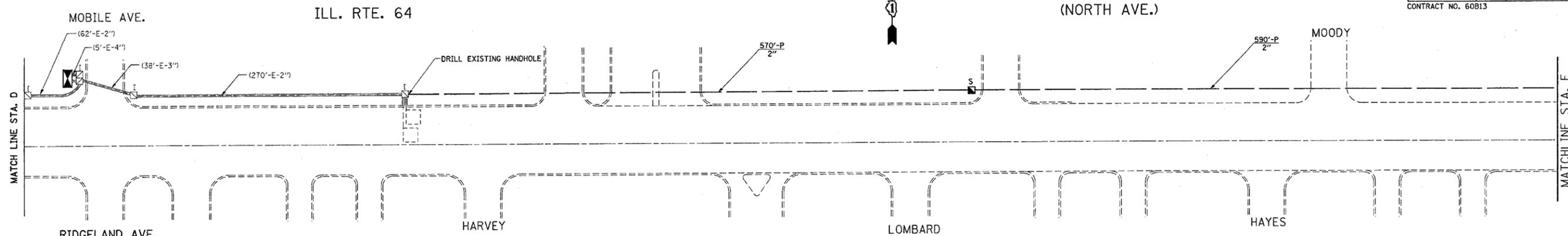
SCALE: VERT. 1" = 50'  
DATE 6/23/2006

DRAWN BY BCK  
DESIGNED BY BCK  
CHECKED BY DAD

PLOT DATE = 6/23/2006  
 FILE NAME = c:\projects\2006\60B13\1164-ridgeland.dgn  
 PLOT SCALE = 1/8" = 50'  
 USER NAME = karrhphn@ibm.com

07:44:22 06/23/2006

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2006-003 TS	COOK	63	61
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60B13				



**INTERCONNECT PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER CABINET		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TELEPHONE CONNECTION		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED SYSTEM		
INTERSECTION	IP	I
UNIT DUCT	UD	
COMMON TRENCH	CT	
DETECTOR LOOP, TYPE I		
PERFORMED DETECTOR LOOP		

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

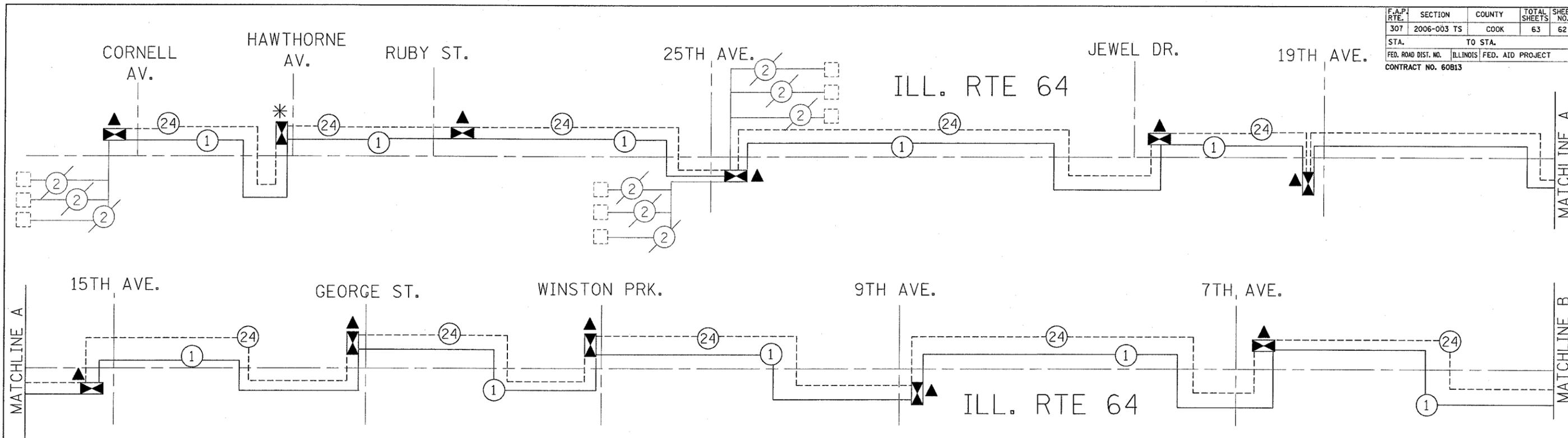
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERCONNECT PLAN**  
 ILL. RTE. 64  
 FROM RIDGELAND AV. TO AUSTIN BLVD.  
 SCALE: VERT. 1" = 50'  
 HORIZ. 1" = 50'  
 DATE 6/23/2006  
 DRAWN BY BCK  
 DESIGNED BY BCK  
 CHECKED BY DAD

PLOT DATE = 6/23/2006  
 FILE NAME = G:\projects\2006\Ill64\1184r-ridgeland.dgn  
 USER = bck  
 USER NAME = bck

07:44:26 06/23/2006

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	62
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60813				



**INTERCONNECT SCHEMATIC LEGEND**

	PROPOSED	EXISTING
INTERSECTION CONTROLLER		
MASTER CONTROLLER		
MASTER MASTER CONTROLLER		
TELEPHONE CONNECTION		
INTERSECTION & SAMPLING (SYSTEM) DETECTORS		
PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS		
EXISTING INTERSECTION LOOP DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS		
SAMPLING (SYSTEM) DETECTORS		
SAMPLING (SYSTEM) PREFORMED DETECTORS		
EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.		
EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS		
FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED		
INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED		
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PAIR		
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		

**CONSTRUCTION NOTE:**

- ▲ NEW CONTROLLER ONLY. RE-USE EXISTING CABINET
- \* NEW CONTROLLER AND CABINET.

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
.045	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
.045	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
1770	FOOT	CONDUIT PUSH, 2" DIA., GALVANIZED STEEL
2	EACH	HANDHOLE
2150	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C
33,415	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SM12F
80	SQ.FT.	SIDEWALK REMOVAL
4	EACH	DRILL EXISTING HANDHOLE
2	EACH	RE-OPTIMIZE TRAFFIC SYSTEM

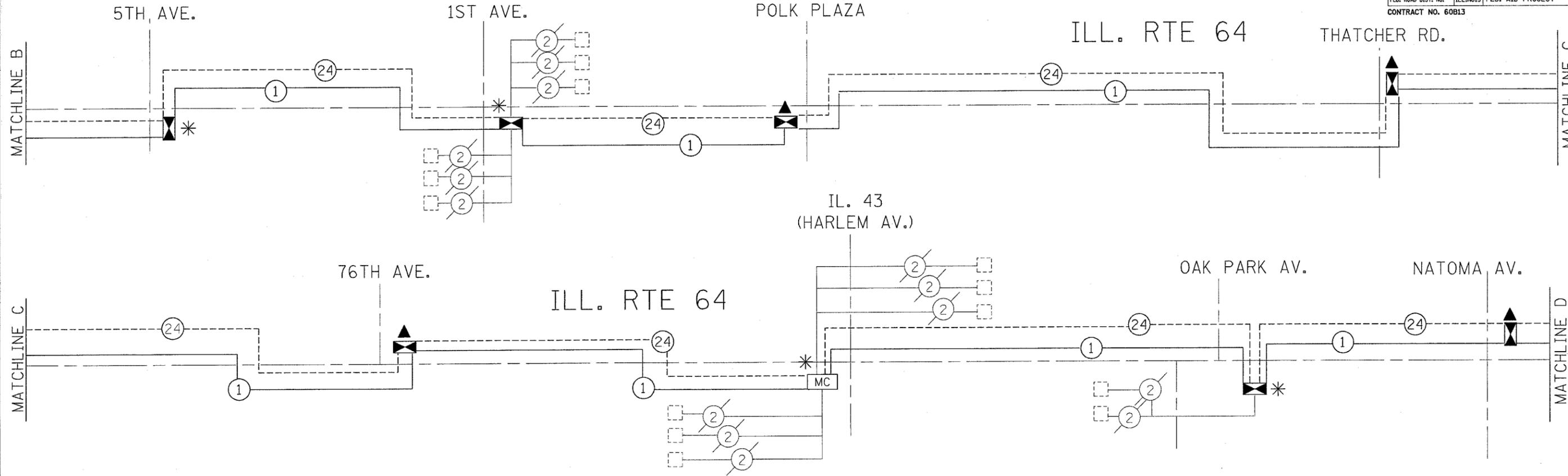
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERCONNECT SCHEMATIC PLAN**  
 ILL. RTE. 64 (NORTH AVE.) FROM  
 CORNELL AV. TO 77TH AVE.

SCALE: NONE  
 DATE 6/23/2006

DRAWN BY BCK  
 DESIGNED BY BCK  
 CHECKED BY DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2006-003 TS	COOK	63	63
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60B13				

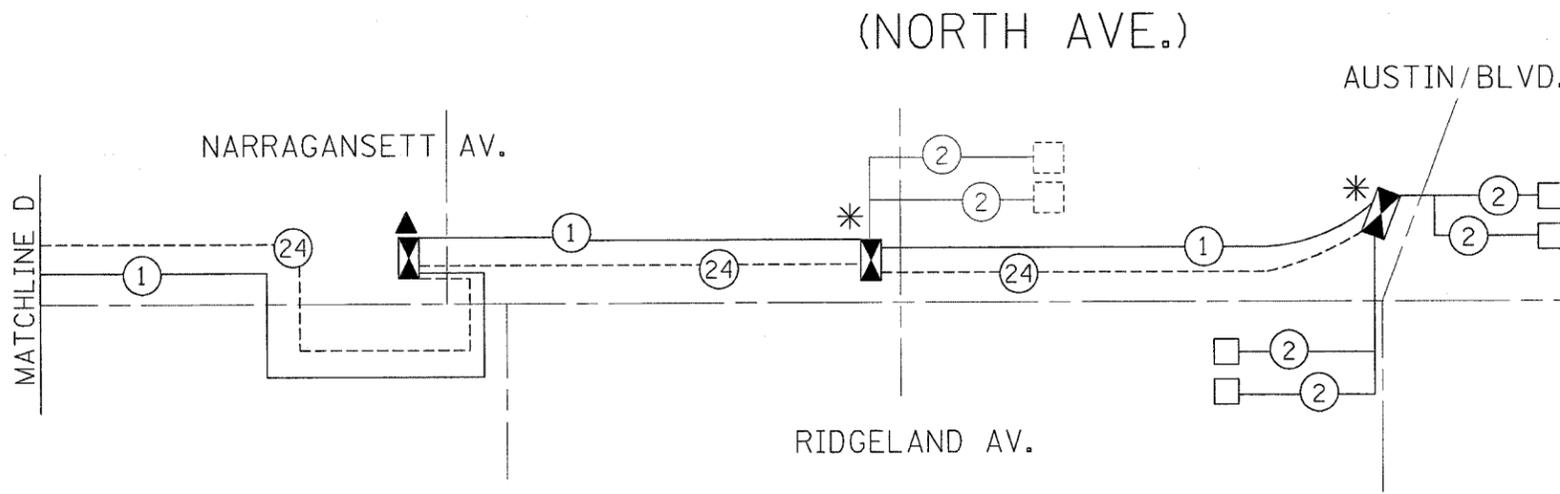


**INTERCONNECT SCHEMATIC LEGEND**

	PROPOSED	EXISTING
INTERSECTION CONTROLLER		
MASTER CONTROLLER		
MASTER MASTER CONTROLLER		
TELEPHONE CONNECTION		
INTERSECTION & SAMPLING (SYSTEM) DETECTORS		
PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS		
EXISTING INTERSECTION LOOP DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS		
SAMPLING (SYSTEM) DETECTORS		
SAMPLING (SYSTEM) PREFORMED DETECTORS		
EXISTING SAMPLING (SYSTEM) DETECTORS; PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.		
EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS		
FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED		
INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED		
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PAIR		
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		

**CONSTRUCTION NOTE:**

- ▲ NEW CONTROLLER ONLY. RE-USE EXISTING CABINET
- \* NEW CONTROLLER AND CABINET.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERCONNECT SCHEMATIC PLAN**  
 ILL. RTE. 64 (NORTH AVE.) FROM  
 5TH TO AUSTIN BLVD.  
 SCALE: NONE  
 DATE 6/23/2006  
 DRAWN BY BCK  
 DESIGNED BY BCK  
 CHECKED BY DAD