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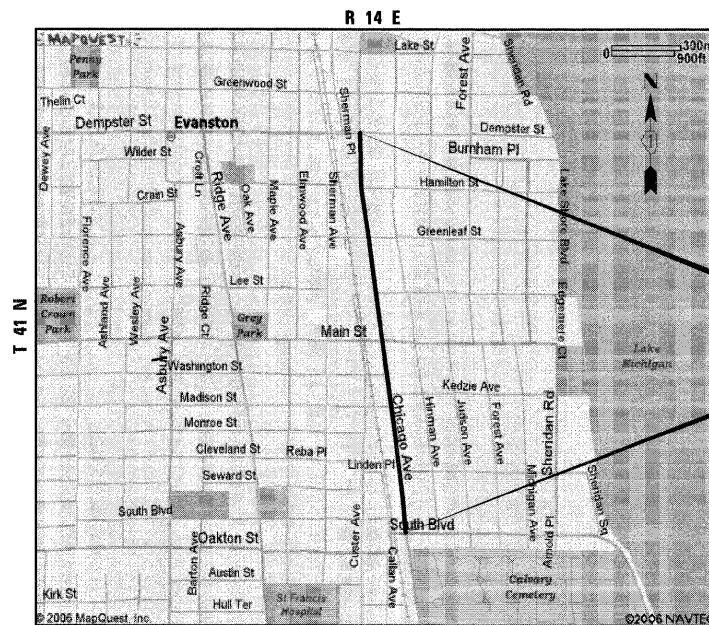
CONTRACT NO. 63111

COUNTY : COOK SECTION: 05-00240-00-TL F.A.U. 2853

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

TRAFFIC SIGNAL MODERNIZATION
F.A.U. 2853 CHICAGO AVENUE
FROM SOUTH BOULEVARD TO DEMPSTER STREET
PROJECT NO.: CMM-8003 (580)
SECTION 05-00240-00-TL
CITY OF EVANSTON
COOK COUNTY
C-91-150-06



LOCATION MAP

GROSS LENGTH OF IMPROVEMENT = 1.3 MILES
NET LENGTH OF IMPROVEMENT = 1.3 MILES

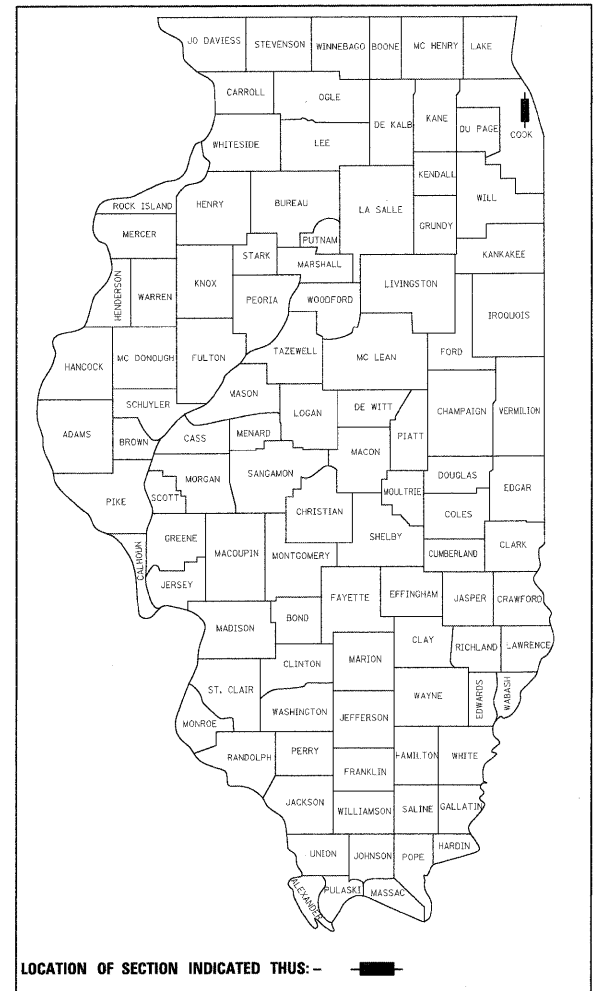
FOR UNDERGROUND UTILITY LOCATIONS
CALL
J. U. L. I. E.
TOLL FREE
TEL. 800-892-0123

SCALES { PLAN 1" = 20'
INTERCONNECT 1" = 50'

PROJECT ENDS

PROJECT BEGINS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2583	05-00240-00-TL	COOK	24	1
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63111				



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED Paul Schirer
City Engineer
CITY OF EVANSTON REPRESENTATIVE

PASSED November 3, 2009
Chet Altstetter
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW November 3, 2009
Devin M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

George M. Ziegler 10-30-09
ENGINEER DATE
GEORGE M. ZIEGLER
REGISTERED PROFESSIONAL ENGINEER
ILLINOIS
ILLINOIS REGISTRATION No. 062-045853
EXPIRATION DATE: 11-30-2011
PROFESSIONAL DESIGN FIRM No.: 184-001742
EXPIRATION DATE: 04-30-2011

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH (847) 705-4169

11/2/2009

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE Y031-1F

CODE NO.	ITEM	UNIT	TOTAL	Chicago	Chicago	Chicago	Chicago	Chicago
				Avenue @ South Blvd	Avenue @ Kedzie Street	Avenue @ Main Street	Avenue @ Greenleaf Street	Avenue @ Dempster Street
21300010	EXPLORATION TRENCH, SPECIAL	FOOT	100	20	20	20	20	20
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4216	497	896		1106	1717
42400800	DETECTABLE WARNINGS	SQ FT	541	97	68	123	107	146
44000600	SIDEWALK REMOVAL	SQ FT	4216	497	896		1106	1717
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	556	117	85	126	107	121
44004610	SIDEWALK REMOVAL AND REPLACEMENT (SPECIAL)	SQ FT	1835	180		1655		
67000400	ENGINEER'S FIELD OFFICE TYPE A	CAL MO	10	2	2		2	2
67100100	MOBILIZATION	LSUM	1	0.2	0.2	0.2	0.2	0.2
70102630	TRAFFIC CONTROL AND PROTECTION STANDARD 701601	LSUM	1	0.2	0.2	0.2	0.2	0.2
70102635	TRAFFIC CONTROL AND PROTECTION STANDARD 701701	LSUM	1	0.2	0.2	0.2	0.2	0.2
70102640	TRAFFIC CONTROL AND PROTECTION STANDARD 701801	LSUM	1	0.2	0.2	0.2	0.2	0.2
72000100	SIGN PANEL - TYPE 1	SQ FT	29.1	3.8	2.8	7.5	7.5	7.5
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	364	72.8		109.2	72.8	109.2
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4643	617	560	1001	1371	1094
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3123	505	209	635	1117	657
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	992	90	71	91	637	103
* 78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	364	72.8		109.2	72.8	109.2
* 78300405	THERMOPLASTIC PAVEMENT MARKING REMOVAL	FOOT	6592	1034	728	1558	1484	1788
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	15	10	5			
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	365	27	53	90	53	142
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	73	33	10	10	10	10
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	358			49	96	213
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	147	16	100		31	
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	831	172	129	169	175	186
81400100	HANDHOLE	EACH	16	3	2	3	3	5
81400300	DOUBLE HANDHOLE	EACH	5	1	1	1	1	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	860	163	68	225	144	260
85700105	FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	5	1	1	1	1	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6589	1278	948	1351	1323	1689
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5345	1208	1217	889	893	1138
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1650	168		500	479	503
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14. 1 PR	FOOT	728	166		175	179	208
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	454	25	20	64	111	234
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	9	1	2	2	2	2
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT	EACH	9	1		3	3	2
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	16	3	3	3	3	4
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	136	20	20	32	32	32
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	20	4	4	4	4	4
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9	1	2	2	2	2
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6			2	2	2
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8		2	2	2	2
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	7	1		2	2	2
88030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	2	1			
88030330	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1	1				
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	26		2	8	8	8
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	5	4	1			
88500100	INDUCTIVE LOOP DETECTOR	EACH	7	1		2	2	2
88600100	DETECTOR LOOP, TYPE I	FOOT	932	121		263	270	278
88700200	LIGHT DETECTOR	EACH	16	3	3	3	3	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	5	1	1	1	1	1
89000105	TEMPORARY TRAFFIC SIGNAL INSTALLATION, SPECIAL	EACH	5	1	1	1	1	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	1	1	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	9	2	2	2	2	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	28	6	5	7	5	5
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	5	1	1	1	1	1
X8730027	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C	FOOT	2444	375	395	470	507	697
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	2810	360	491	418	403	1138

* SPECIALTY ITEM

SURVEYED PLOTTED CHECKED BY: _____ DATE: _____ PLAN NO. _____ CAD FILE NAME	SURVEYED PLOTTED CHECKED BY: _____ DATE: _____ PROTECT NO. _____ STRUCTURE NOTATION: CPND
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CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
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 (847) 823-0500

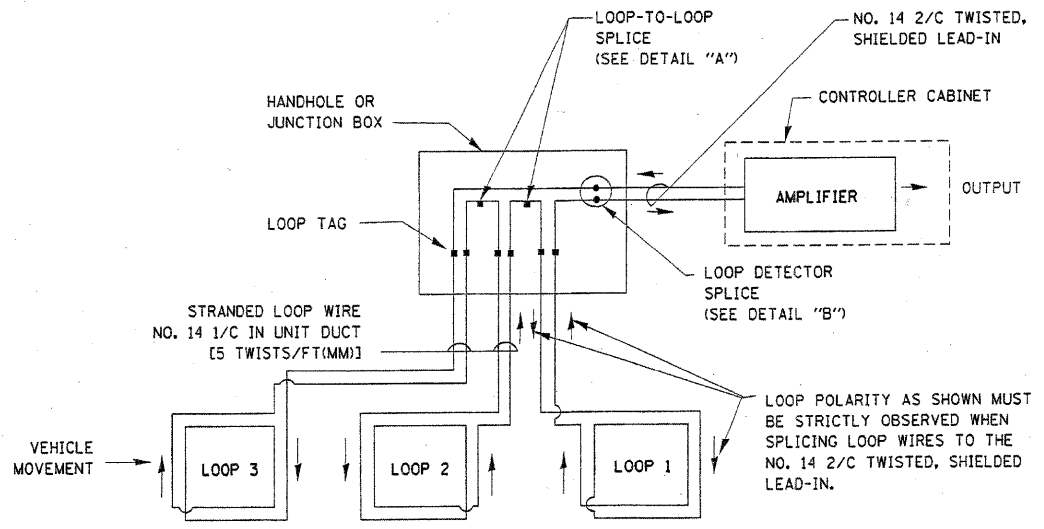


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	24	3
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Contract 0311

LOOP DETECTOR NOTES

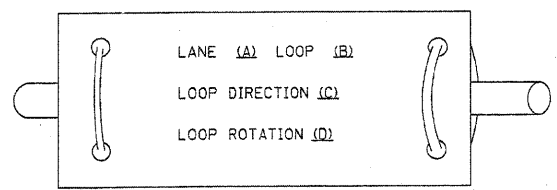
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED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



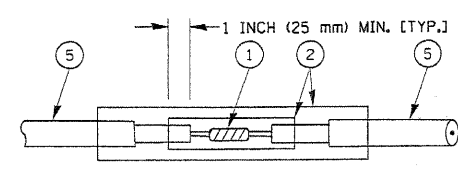
DETECTOR LOOP WIRING SCHEMATIC

- 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.

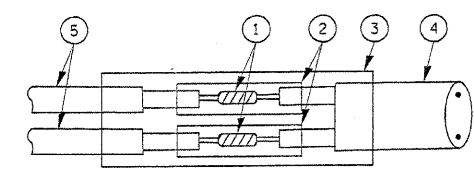
LOOP LEAD-IN CABLE TAG



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



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



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

LOOP DETECTOR SPLICE

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

REVISIONS	
NAME	DATE

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

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

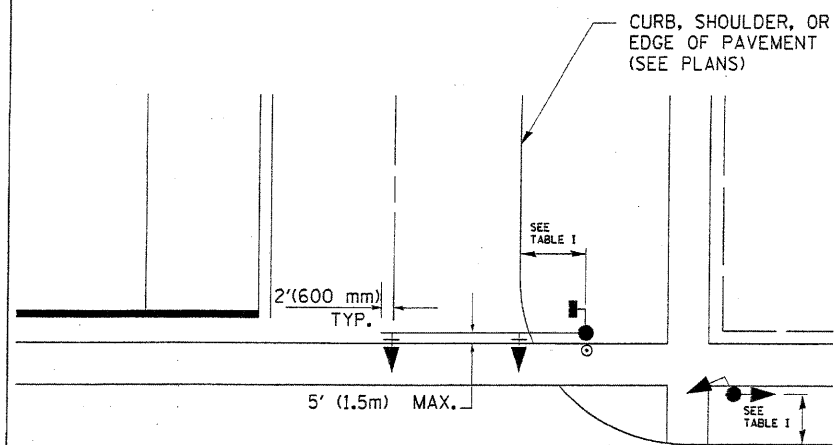
DRAWN BY: RWP
DESIGNED BY: DAZ
CHECKED BY: DAZ
SHEET 1 OF 4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	24	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

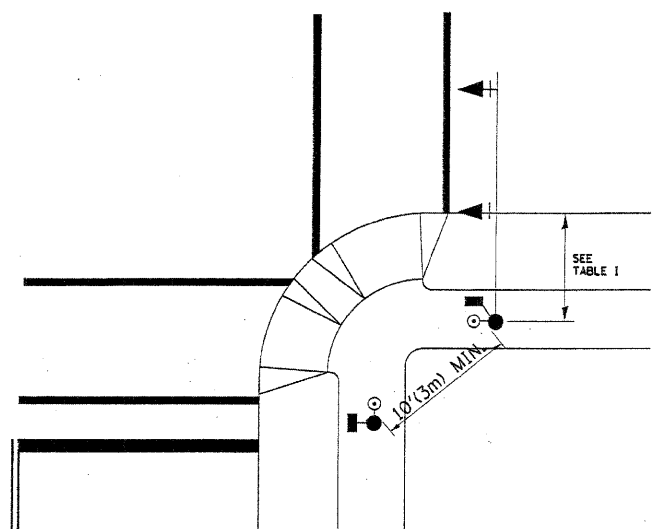
Contract U3111

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

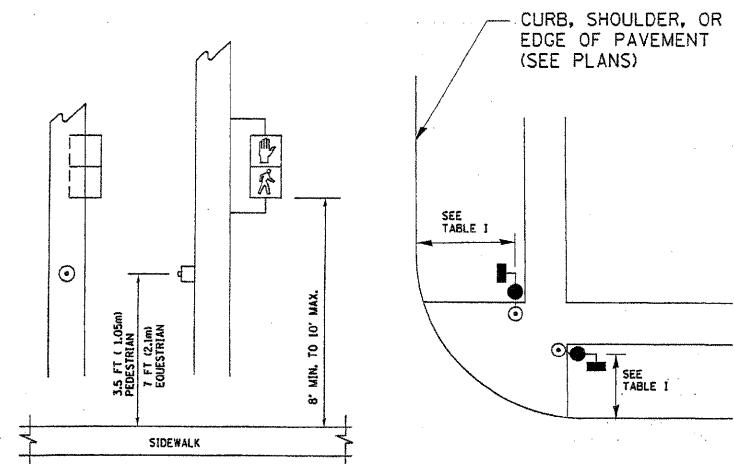


TABLE I

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. NONE
 DATE 1-01-02
 DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 2 OF 4

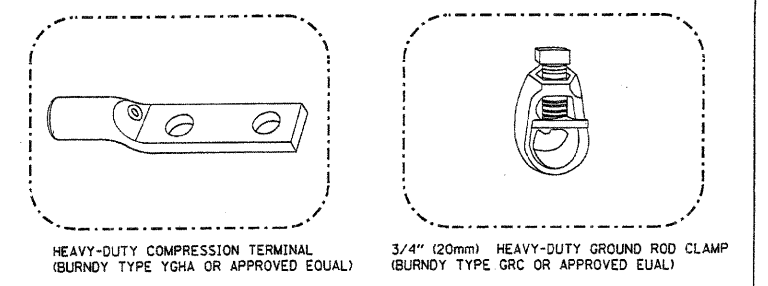
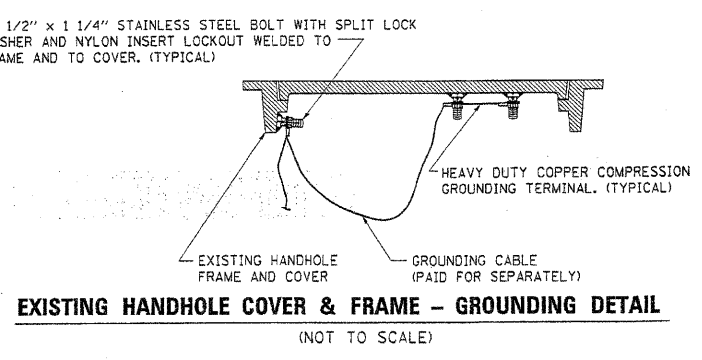
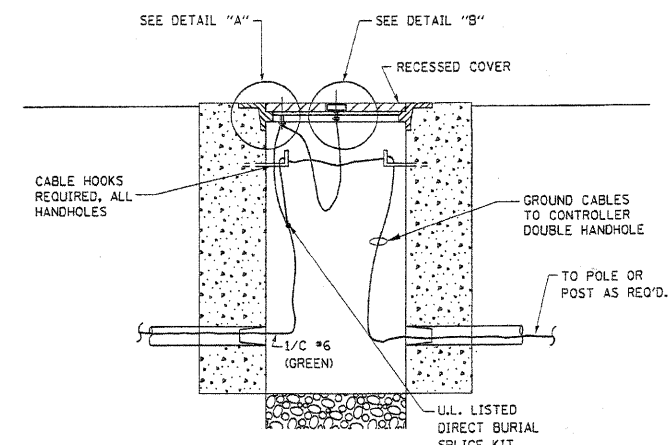
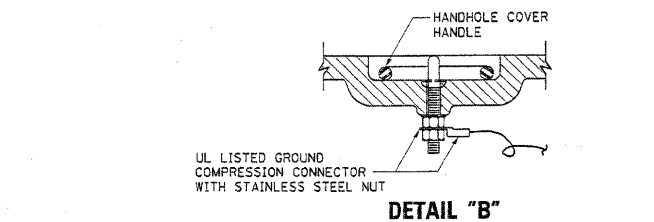
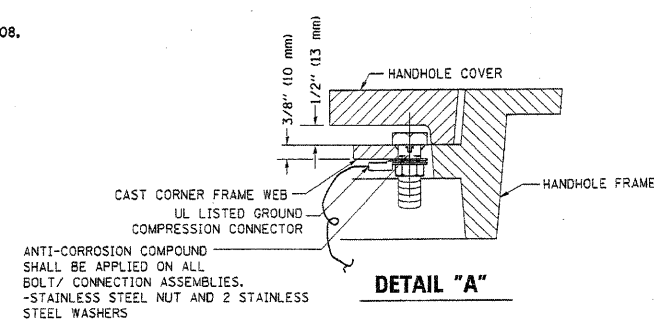
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	24	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

Contract 023111

NOTES:

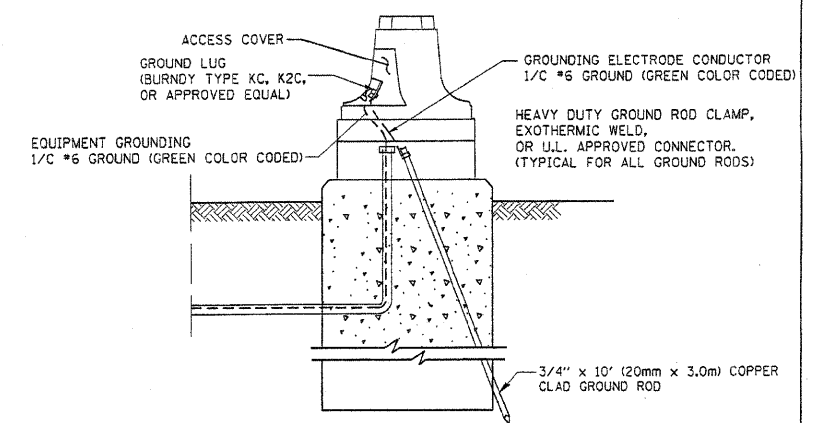
GROUNDING SYSTEM

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



NOTES:

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



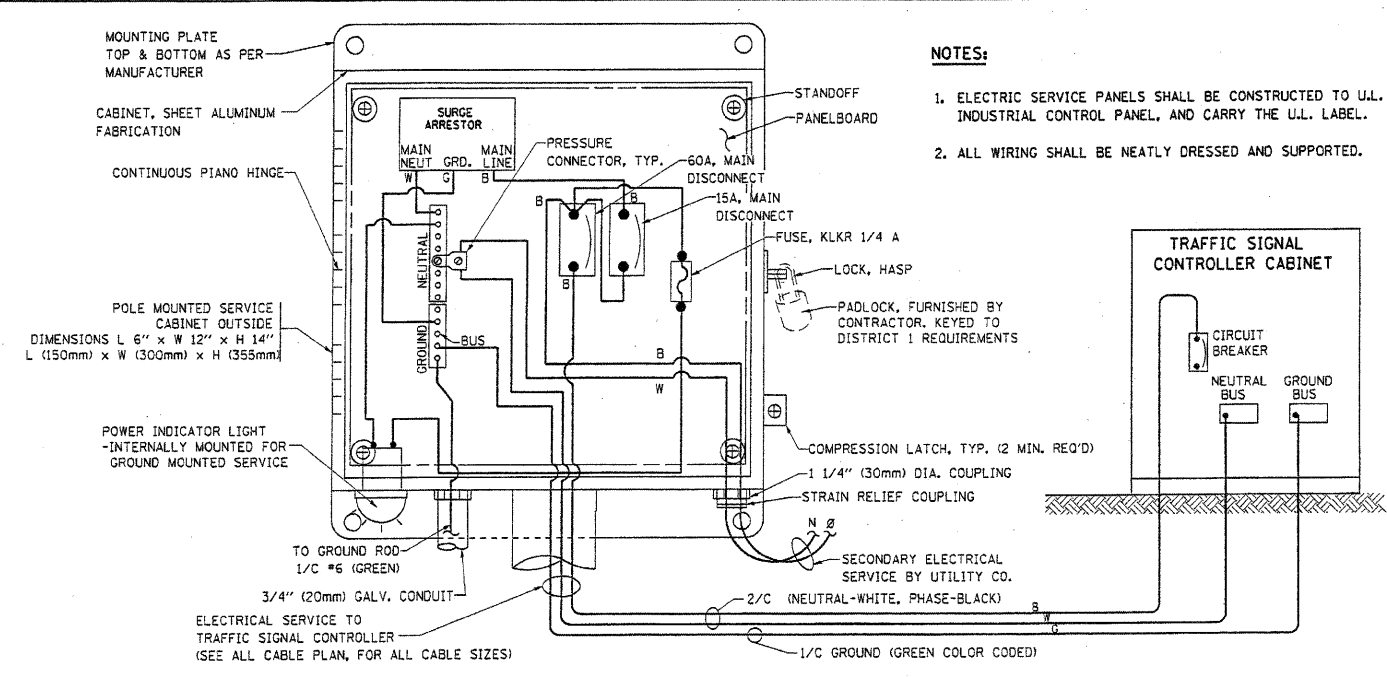
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

REVISIONS	
NAME	DATE

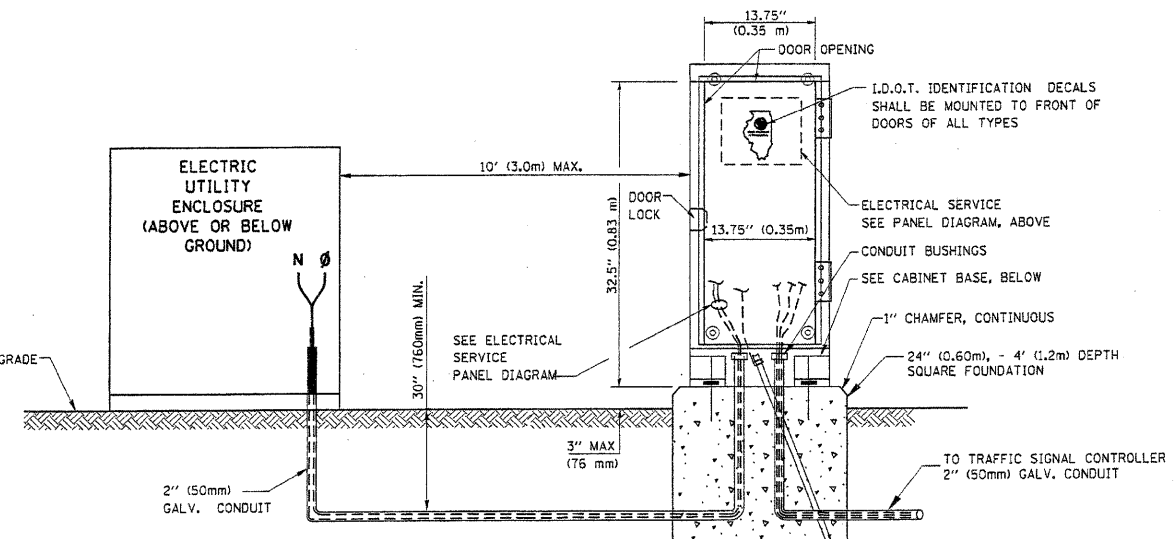
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS
 SCALE: VERT. NONE
 HORIZ. NONE
 DATE 1-01-02
 DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 3 OF 4

NOTES:

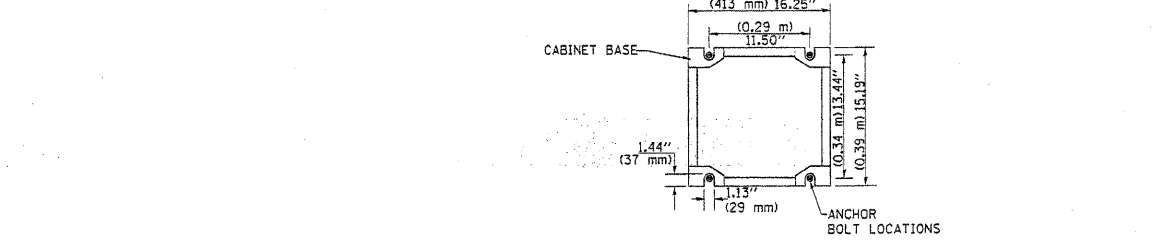
1. ELECTRICAL SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



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



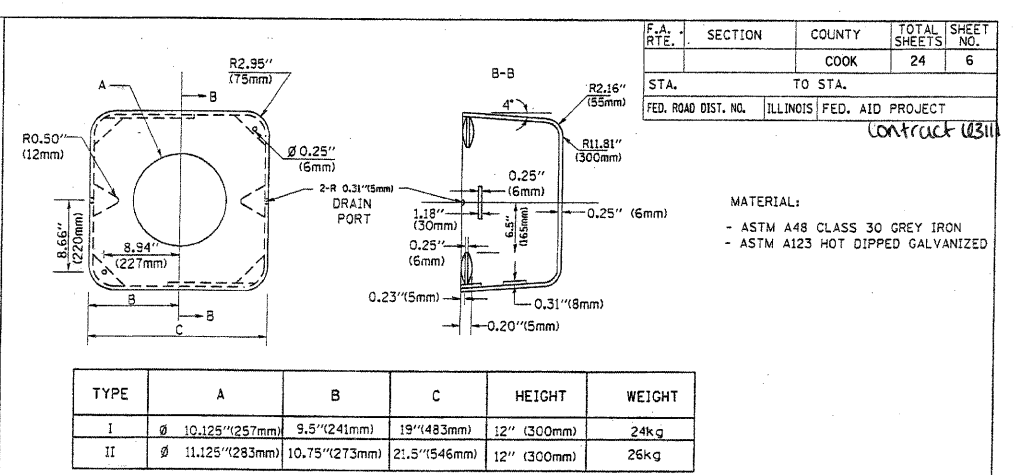
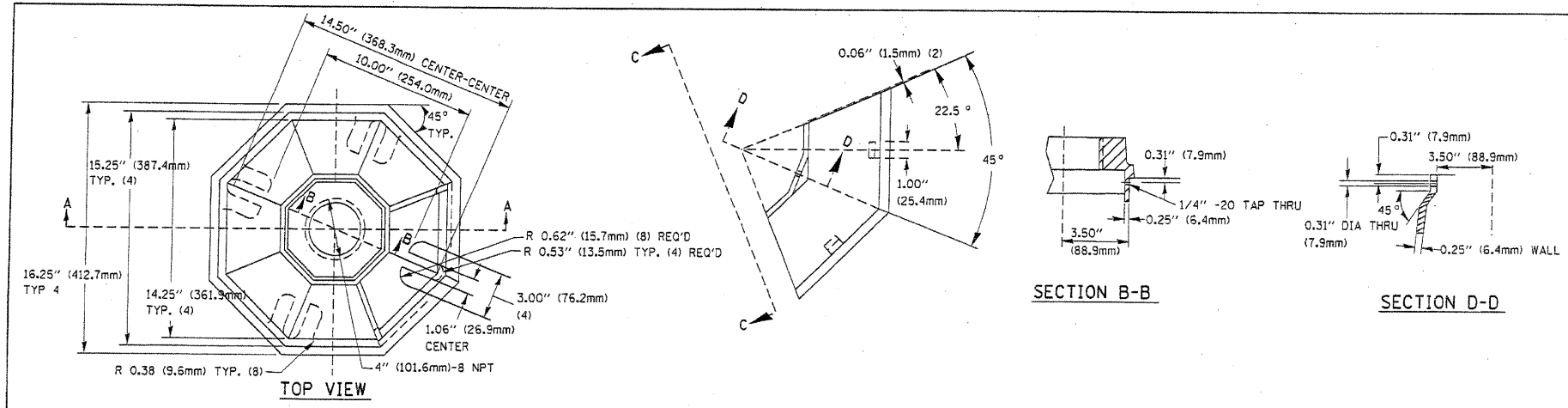
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)



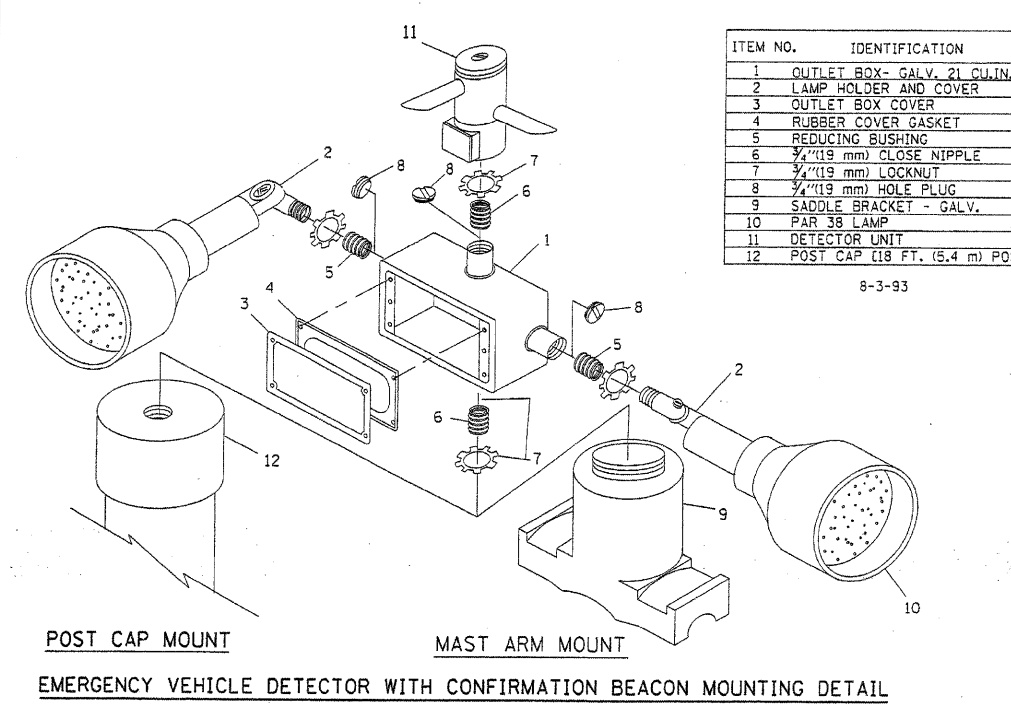
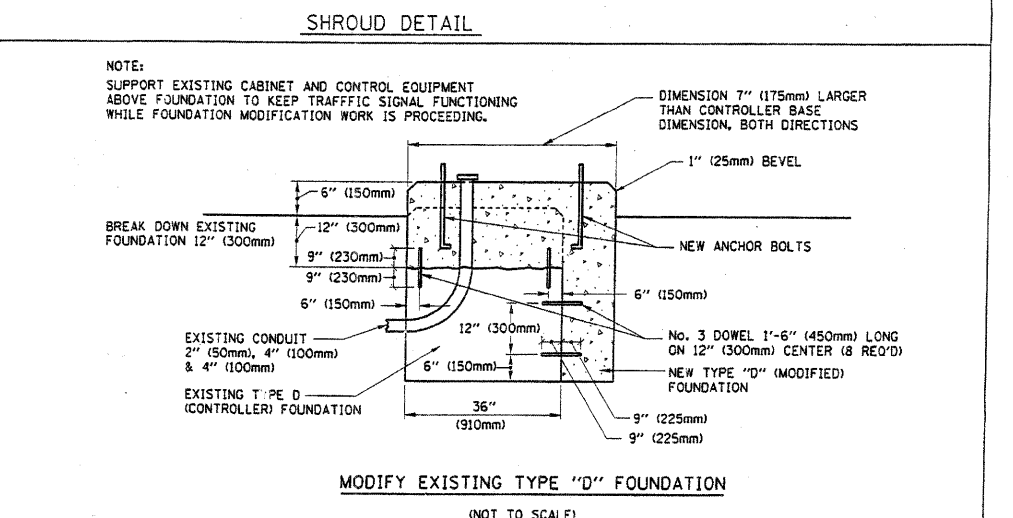
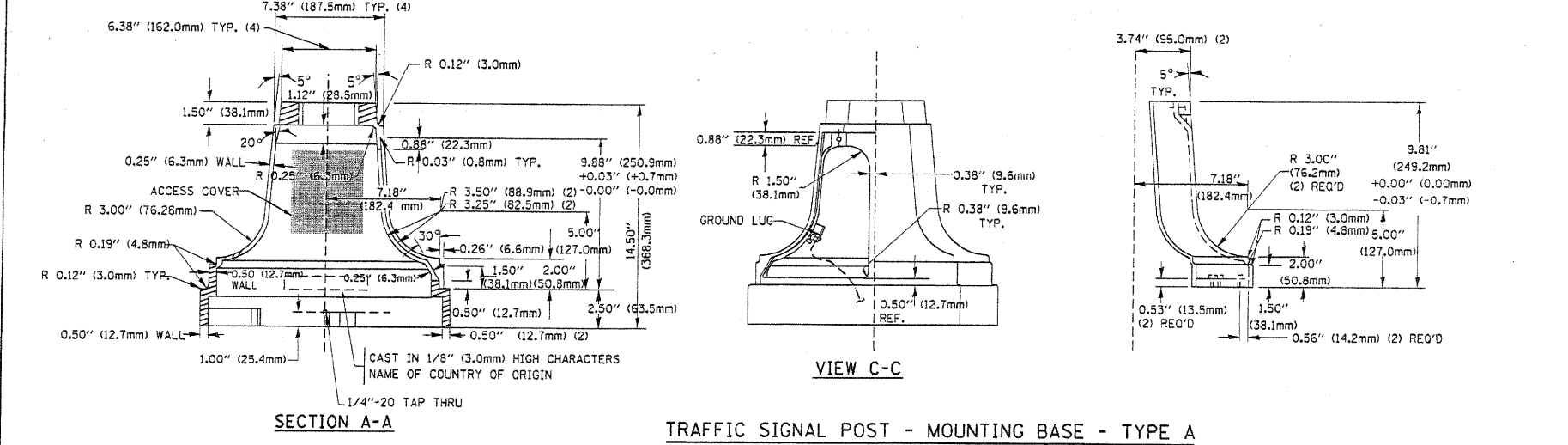
CABINET - BASE BOLT PATTERN (NOT TO SCALE)



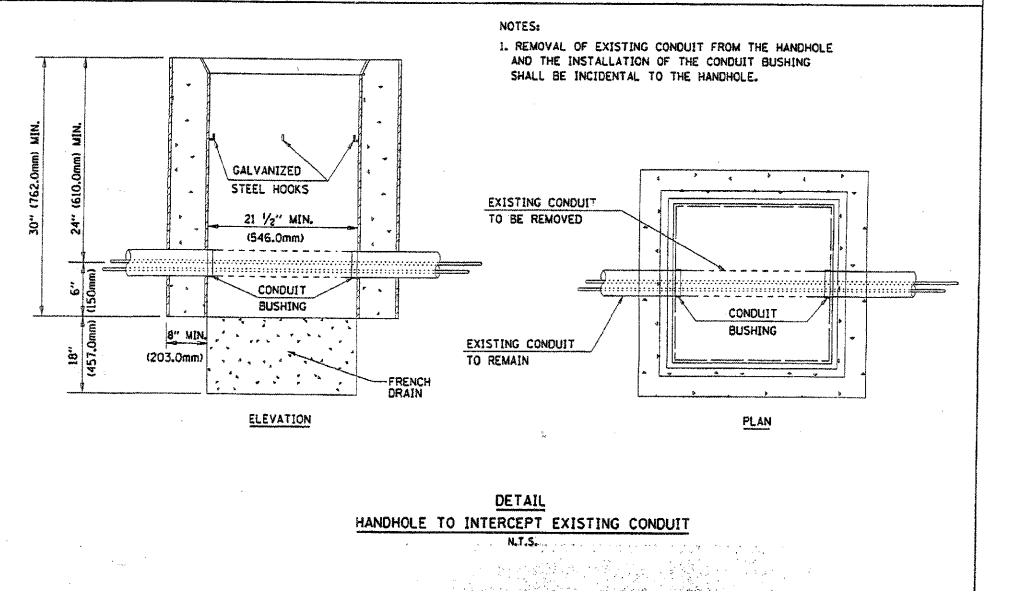
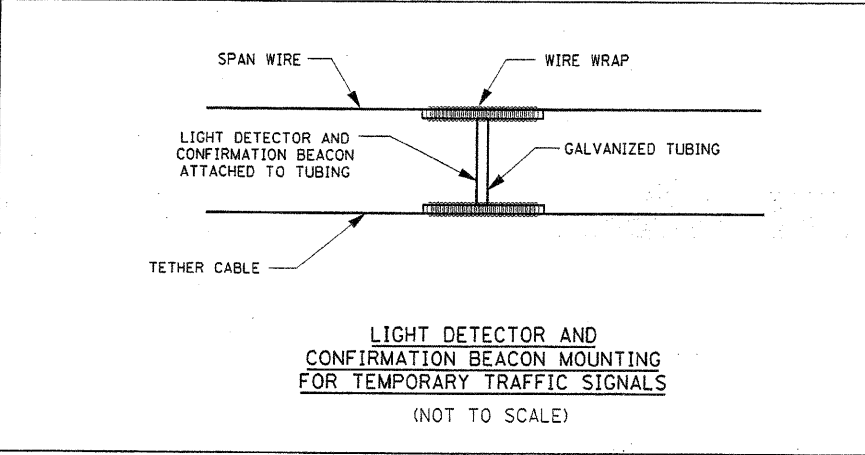
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	COOK		24	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT 02311	



TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125\"(257mm)	9.5\"(241mm)	19\"(483mm)	12\"(300mm)	24kg
II	Ø 11.125\"(283mm)	10.75\"(273mm)	21.5\"(546mm)	12\"(300mm)	26kg



- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



REVISIONS	
NAME	DATE

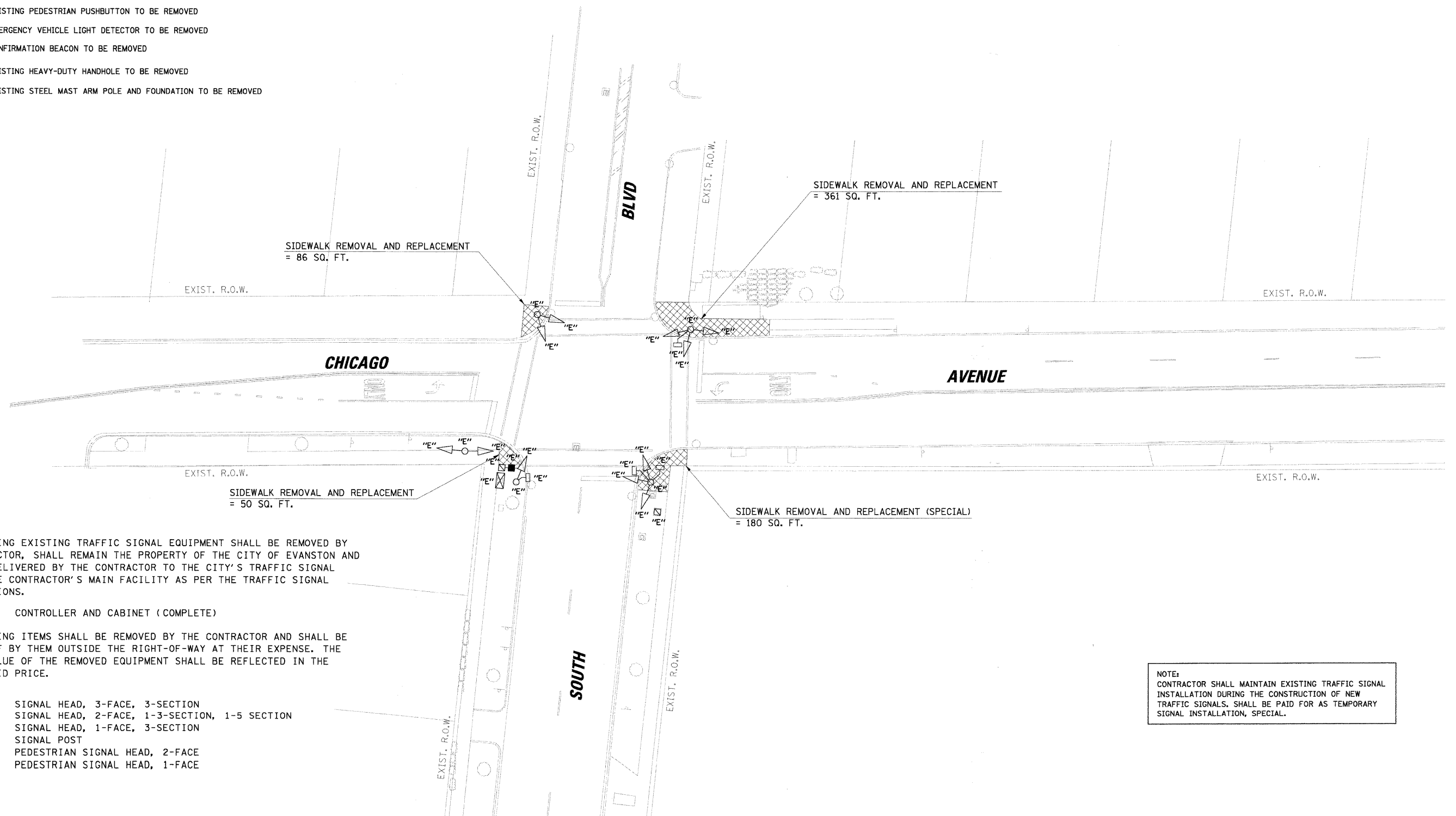
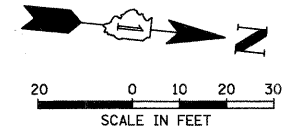
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

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

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

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- "E" EXISTING SIGNAL HEAD TO BE REMOVED
- "E" EXISTING SERVICE INSTALLATION TO BE REMOVED
- "E" EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- "E" EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E" EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E" EXISTING HANDHOLE TO BE REMOVED
- "E" EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- "E" EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "E" EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- "E" CONFIRMATION BEACON TO BE REMOVED
- "E" EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- "E" EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED



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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)

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

- 2 EACH SIGNAL HEAD, 3-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3-SECTION, 1-5 SECTION
- 1 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 5 EACH SIGNAL POST
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE

NOTE:
CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL INSTALLATION DURING THE CONSTRUCTION OF NEW TRAFFIC SIGNALS. SHALL BE PAID FOR AS TEMPORARY SIGNAL INSTALLATION, SPECIAL.

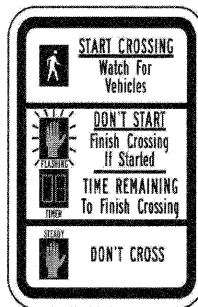
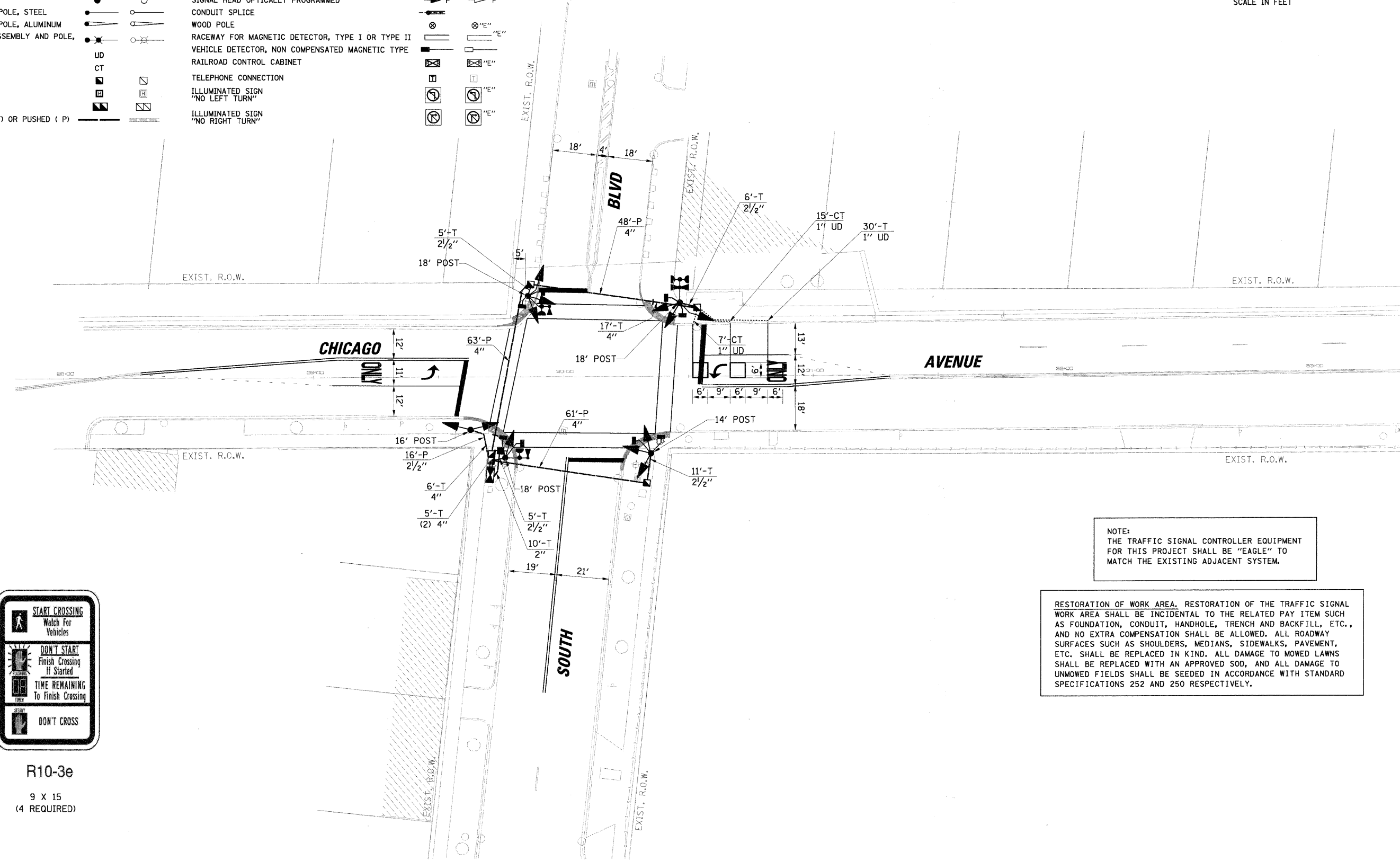
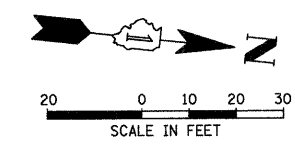
PROFILE	SURVEYED _____	DATE _____	BY _____
	CHECKED _____		
	NOTED _____		
	STRUCTURE NOTATIONS CIPRD _____		
PLAN	SURVEYED _____	DATE _____	BY _____
	PLotted _____		
	NOTE BOOK NO. _____		
	FILE NAME _____		

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

FILE NAME = N:\EVANSTON\052021\Traffic\TMP_south-chs.dgn	USER NAME = FPAICONE	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT CHICAGO AVENUE AT SOUTH BLVD	F.A.U. RTE. 2853	SECTION 05-00240-00-TL	COUNTY COOK	TOTAL SHEETS 24	SHEET NO. 7	
PLOT SCALE = 20'	CHECKED -	REVISED -				CONTRACT NO. 63111					
PLOT DATE = 11/2/2009	DATE -	REVISED -				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
SCALE:											

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			CAST IRON JUNCTION BOX		
SIGNAL HEAD WITH BACKPLATE			EMERGENCY VEHICLE LIGHT DETECTOR		
SIGNAL HEAD, PEDESTRIAN			CONFIRMATION BEACON		
SIGNAL POST			SIGNAL HEAD OPTICALLY PROGRAMMED		
MAST ARM ASSEMBLY AND POLE, STEEL			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			WOOD POLE		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
UNIT DUCT	UD		VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
COMMON TRENCH	CT		RAILROAD CONTROL CABINET		
HANDHOLE			TELEPHONE CONNECTION		
HEAVY DUTY HANDHOLE			ILLUMINATED SIGN "NO LEFT TURN"		
DOUBLE HANDHOLE			ILLUMINATED SIGN "NO RIGHT TURN"		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	T/P				



R10-3e
9 X 15
(4 REQUIRED)

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

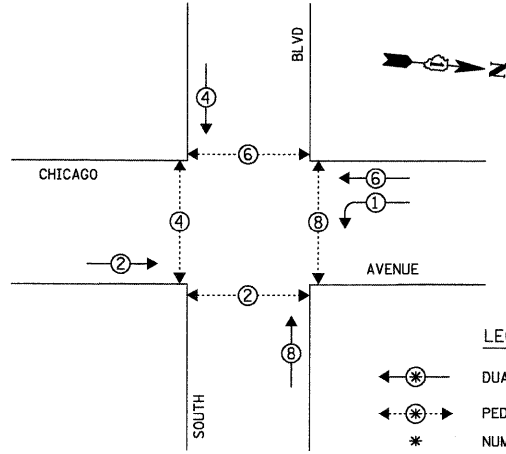
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL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

PLAN	DATE	BY
DATE	BY <td>DATE</td>	DATE
NO.	NO.	NO.

CHRISTOPHER B. BURKE
ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(647) 823-0500

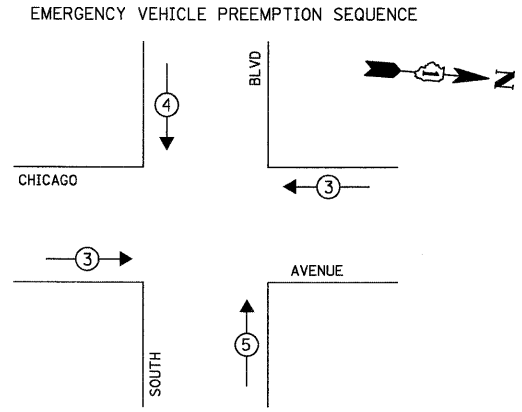
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 (847) 823-0500

CONTROLLER SEQUENCE



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

PHASE DESIGNATION DIAGRAM



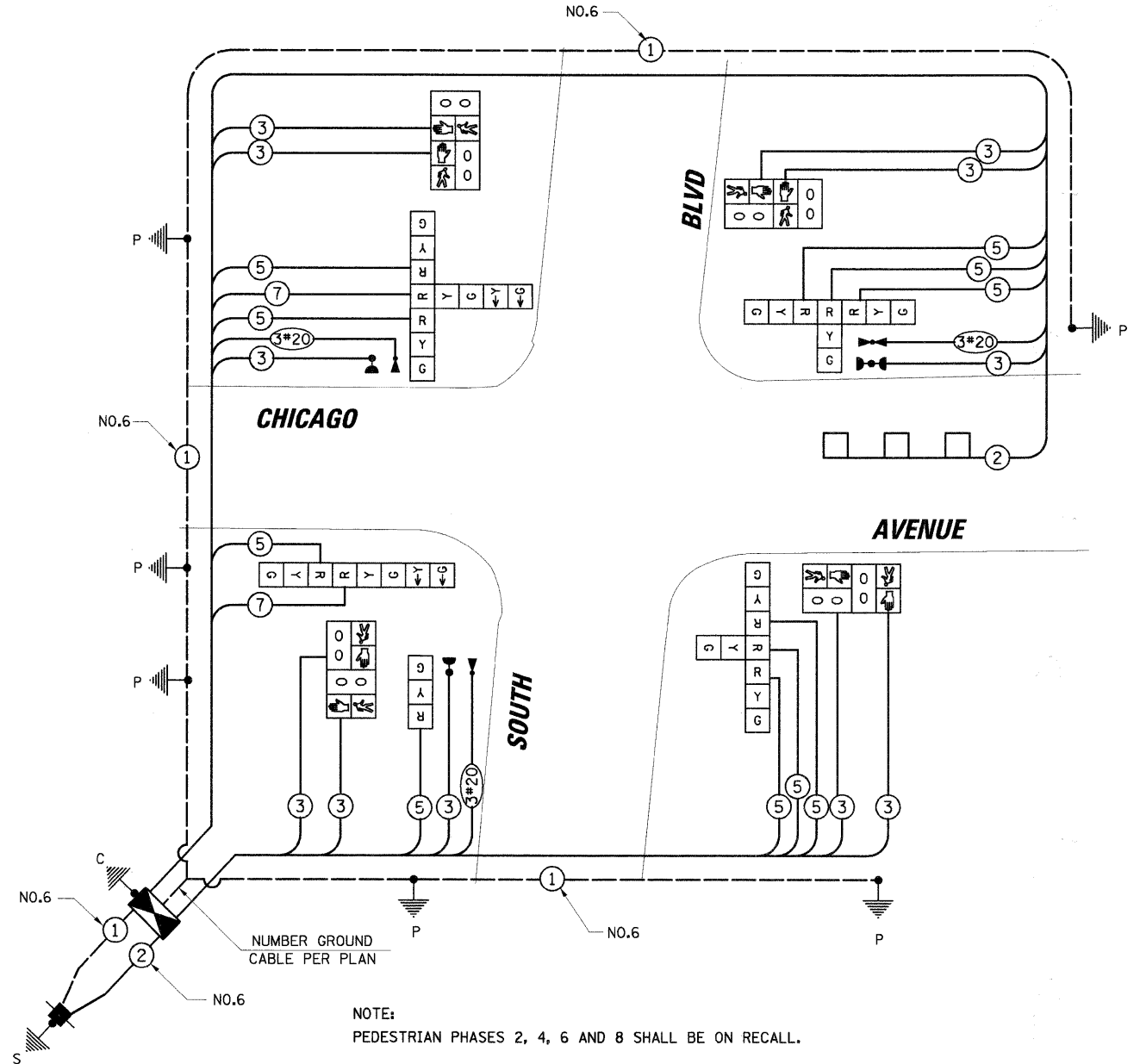
PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	←	↓	↑

CABLE PLAN LEGEND

- | | |
|--|---|
| | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | CONTROLLER CABINET |
| | SERVICE INSTALLATION |
| | TELEPHONE INSTALLATION |
| | VEHICLE DETECTOR, INDUCTION LOOP |
| | MAGNETIC DETECTOR |
| | EMERGENCY VEHICLE LIGHT DETECTOR |
| | CONFIRMATION BEACON |
| | PUSHBUTTON DETECTOR |
| | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. |
| | RAILROAD CONTROL CABINET |
| | ILLUMINATED SIGN "NO LEFT TURN" |
| | ILLUMINATED SIGN "NO RIGHT TURN" |
| | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH), OR CONTROLLER (C) |
| | GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
EXPLORATION TRENCH, SPECIAL	EACH	4
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	497
DETECTABLE WARNINGS	SQ FT	97
SIDEWALK REMOVAL	SQ FT	497
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	117
SIDEWALK REMOVAL AND REPLACEMENT (SPECIAL)	SQ FT	180
SIGN PANEL - TYPE 1	SQ FT	3.75
THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	72.8
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	617
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	505
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	90
THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	72.8
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	1034
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	27
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	33
HANDHOLE	FOOT	16
DOUBLE HANDHOLE	FOOT	172
TRENCH AND BACKFILL FOR ELECTRICAL WORK	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	163
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1278
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1208
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PR	FOOT	168
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	166
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	25
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	EACH	3
CONCRETE FOUNDATION, TYPE D	FOOT	20
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	EACH	1
LIGHT DETECTOR	FOOT	121
LIGHT DETECTOR AMPLIFIER	EACH	3
TEMPORARY TRAFFIC SIGNAL INSTALLATION, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
SERVICE INSTALLATION - POLE MOUNTED	EACH	6
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C	EACH	1
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	375
	FOOT	360



NOTE:
 PEDESTRIAN PHASES 2, 4, 6 AND 8 SHALL BE ON RECALL.

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED X % OPERATION		
SIGNAL (RED)	12	17	0.50	102.00	
(YELLOW)	12	25	0.25	75.00	
(GREEN)	12	15	0.25	45.00	
ARROW	4	12	0.10	4.80	
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN	-	25	0.05	-	
FLASHER			0.50		

ENERGY COSTS TO: TOTAL = 526.80
CITY OF EVANSTON
 2100 RIDGE AVENUE
 EVANSTON, ILLINOIS 60201-2798
 ENERGY SUPPLY: CONTACT: LARRY SHANK
 PHONE: 847-816-5465
 COMPANY: COMED

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)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
	30" (750mm)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
	36" (900mm)	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)

FILE NAME =	USER NAME = FPAICONE	DESIGNED -	REVISED -
N:\EVANSTON\B6202\Traffic\CAB_south-eh1.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -













STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

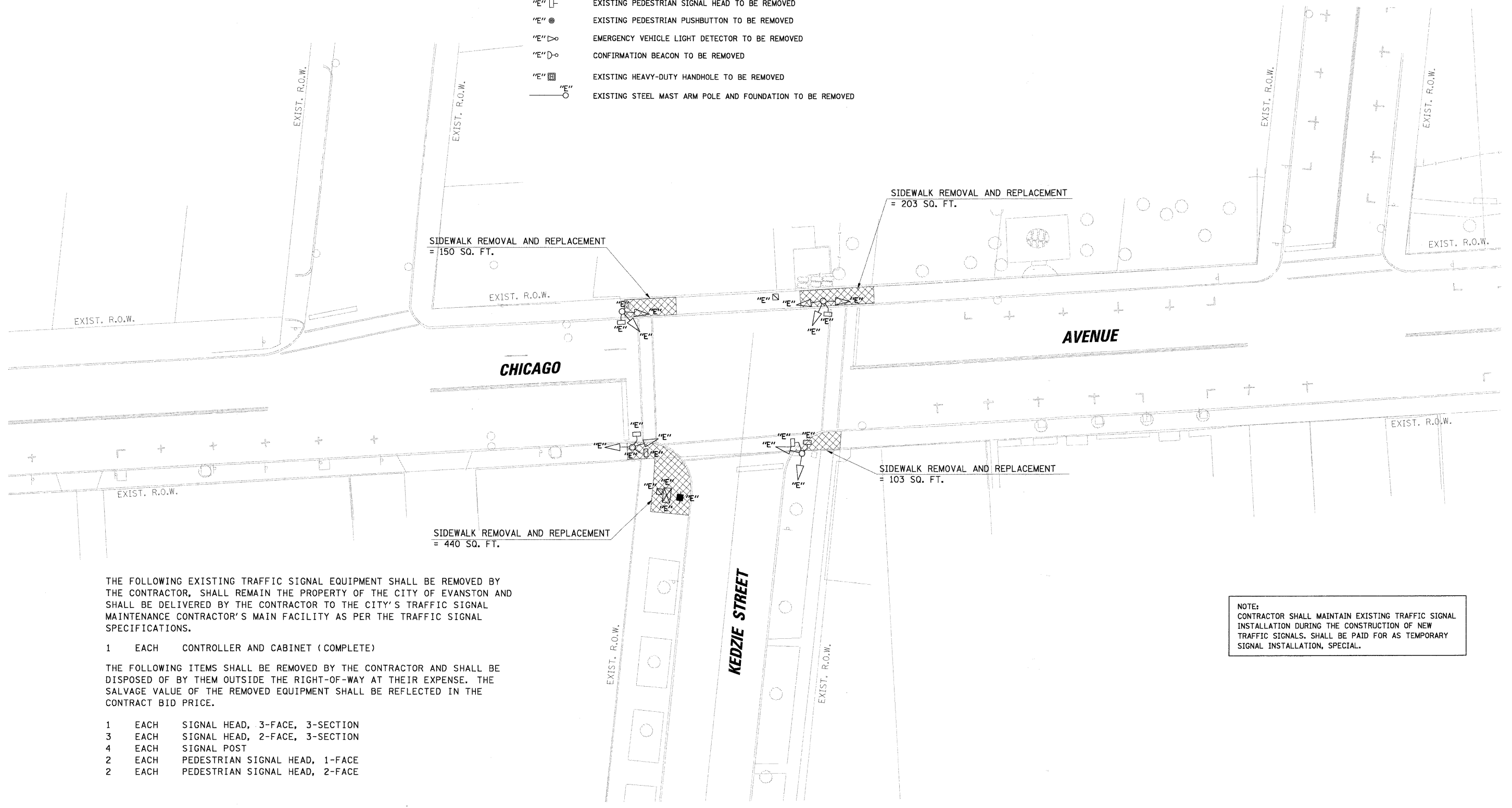
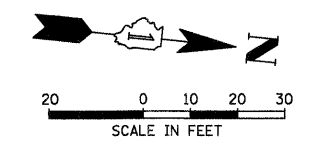
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 CHICAGO AVENUE AT SOUTH BLVD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	05-00240-00-TL	COOK	24	9
CONTRACT NO. 63111				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE: _____ BY: _____
 SURVEYED: _____ CHECKED: _____
 PLOTTED: _____
 PLAN: _____
 NOTE BOOK: _____
 NO.: _____
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500
 DATE: _____ BY: _____
 SURVEYED: _____ CHECKED: _____
 PLOTTED: _____
 PROFILE: _____
 NOTE BOOK: _____
 NO.: _____
 STRUCTURE NOTATIONS: CRKO

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- "E"  EXISTING SIGNAL HEAD TO BE REMOVED
- "E"  EXISTING SERVICE INSTALLATION TO BE REMOVED
- "E"  EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- "E"  EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E"  EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E"  EXISTING HANDHOLE TO BE REMOVED
- "E"  EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- "E"  EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "E"  EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- "E"  CONFIRMATION BEACON TO BE REMOVED
- "E"  EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- "E"  EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED



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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)

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 HEAD, 3-FACE, 3-SECTION
- 3 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 4 EACH SIGNAL POST
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE

NOTE:
 CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL INSTALLATION DURING THE CONSTRUCTION OF NEW TRAFFIC SIGNALS. SHALL BE PAID FOR AS TEMPORARY SIGNAL INSTALLATION, SPECIAL.

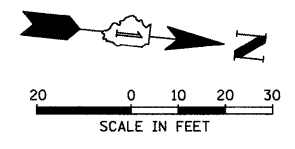
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PLOT SCALE = 20'	DATE = 11/2/2009	DRAWN -	REVISED -			CONTRACT NO. 63111				
CHECKED -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
SCALE:										

DATE: _____ BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 RT. OF WAY CHECKED: _____
 CAD FILE NAME: _____

DATE: _____ BY: _____
 SURVEYED: _____
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 CHECKED: _____
 RT. OF WAY CHECKED: _____
 CAD FILE NAME: _____

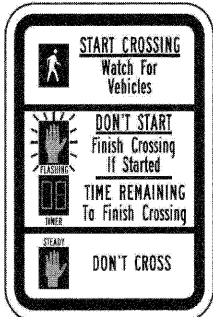
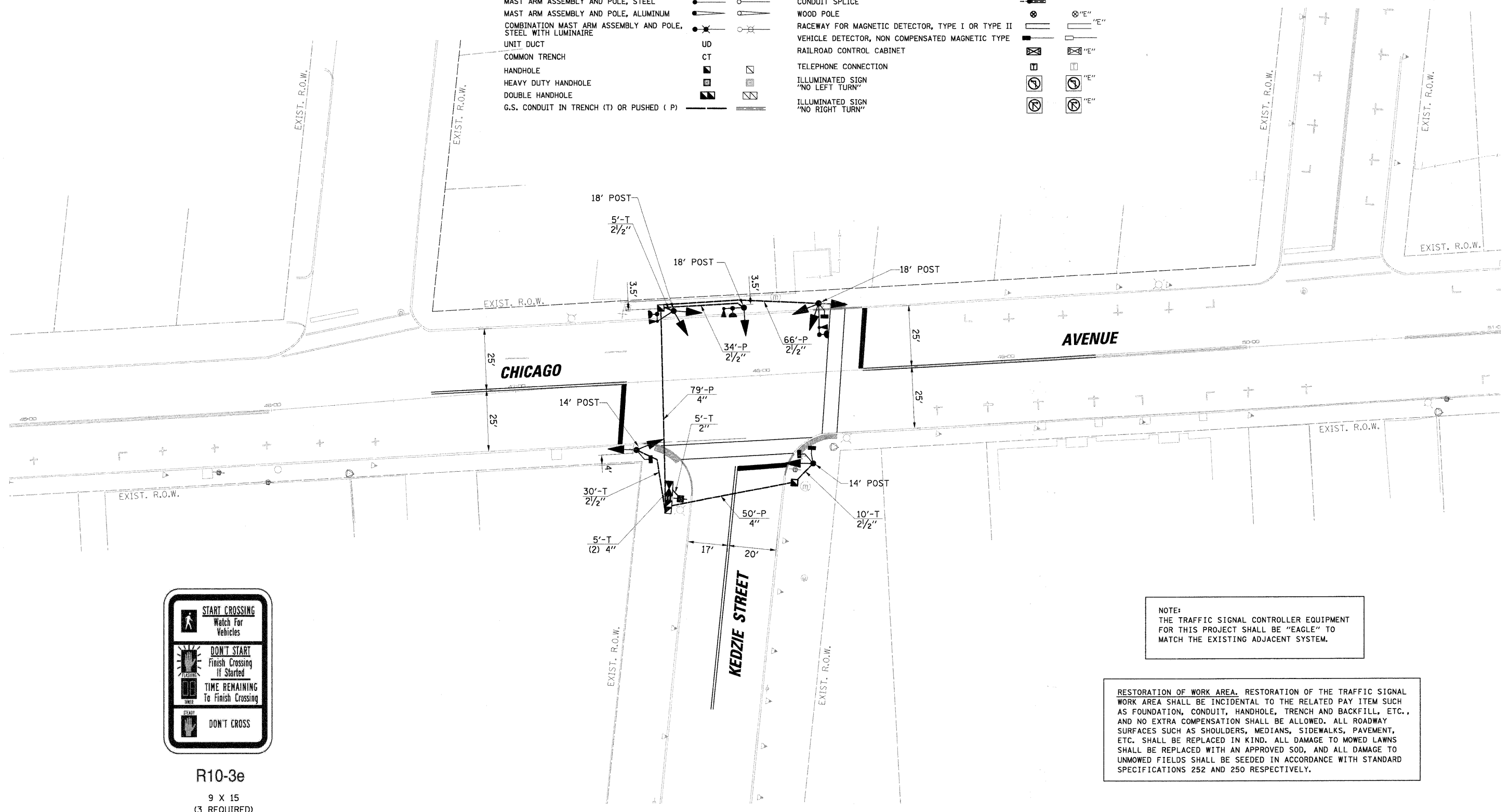
PLAN
 NOTE BOOK NO. _____

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 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			CAST IRON JUNCTION BOX		
SIGNAL HEAD WITH BACKPLATE			EMERGENCY VEHICLE LIGHT DETECTOR		
SIGNAL HEAD, PEDESTRIAN			CONFIRMATION BEACON		
SIGNAL POST			SIGNAL HEAD OPTICALLY PROGRAMMED		
MAST ARM ASSEMBLY AND POLE, STEEL			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			WOOD POLE		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
UNIT DUCT			VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
COMMON TRENCH			RAILROAD CONTROL CABINET		
HANDHOLE			TELEPHONE CONNECTION		
HEAVY DUTY HANDHOLE			ILLUMINATED SIGN "NO LEFT TURN"		
DOUBLE HANDHOLE			ILLUMINATED SIGN "NO RIGHT TURN"		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)					

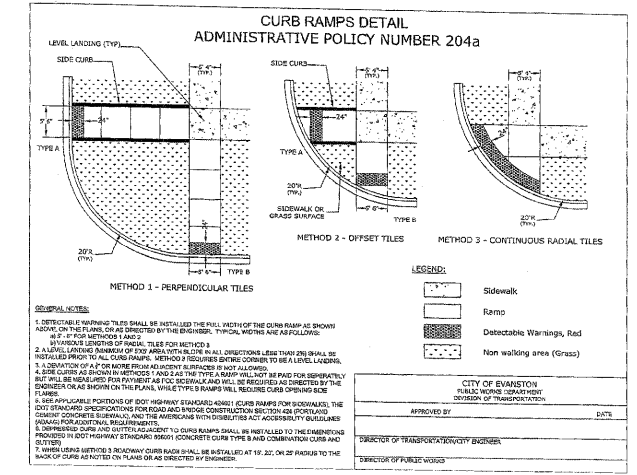
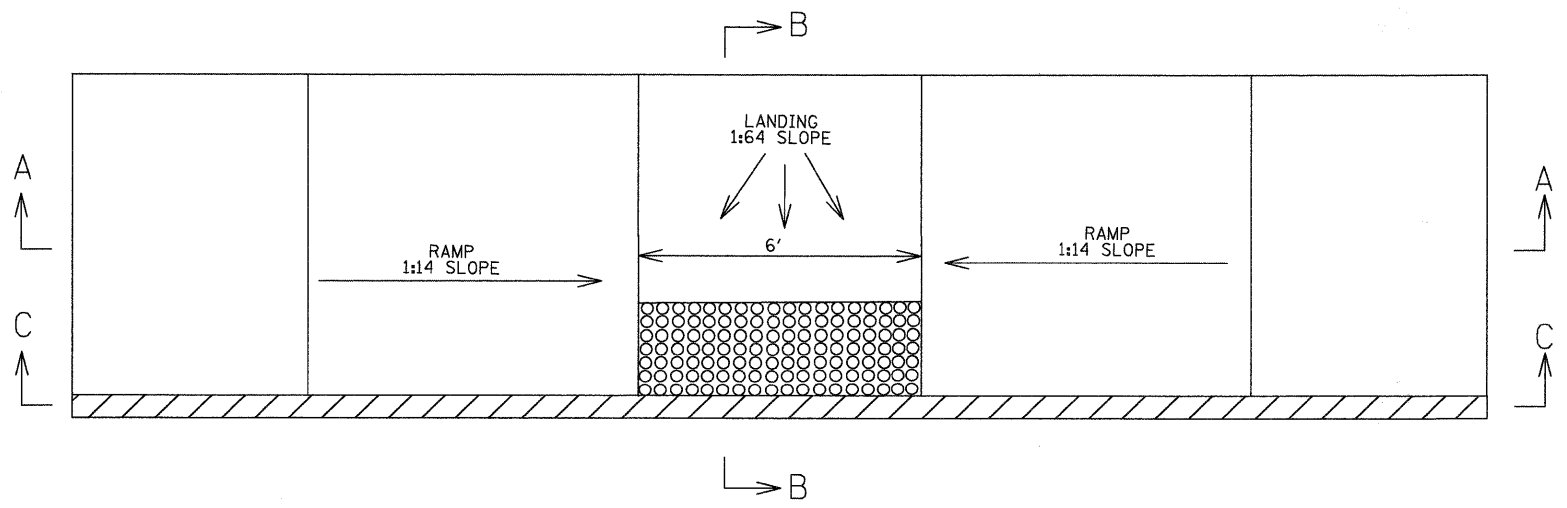
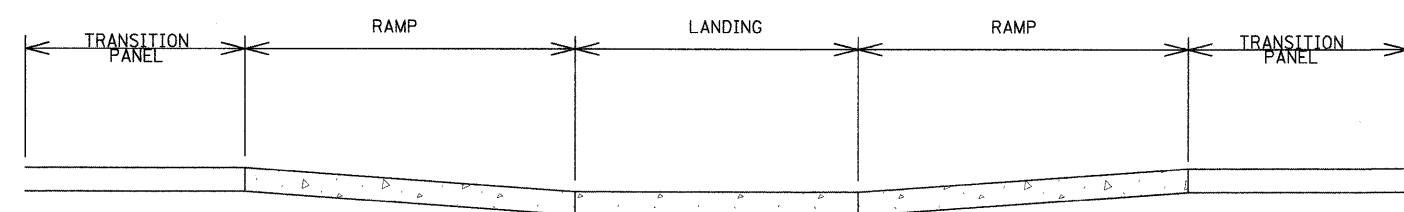
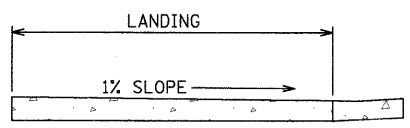
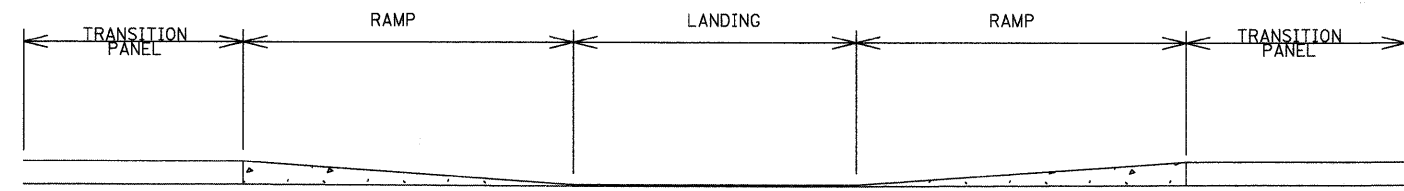


R10-3e
 9 X 15
 (3 REQUIRED)

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

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CHICAGO AVENUE AT KEDZIE STREET – ADA RAMP AT NORTHWEST CORNER



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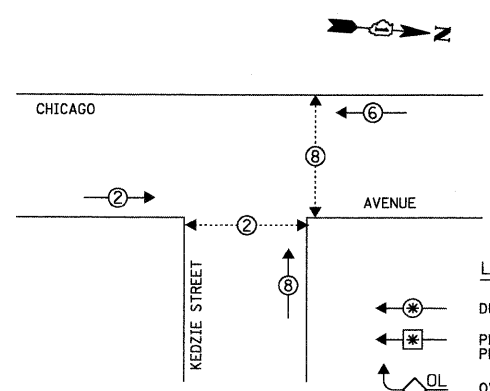
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 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

FILE NAME = N:\EVANSTON\06202\Traffic\SW_Kedzie.dgn	USER NAME = FPACIONE	DESIGNED -	REVISED -	STATE OF ILLINOIS	PROPOSED SIDEWALK MODIFICATIONS	F.A.U. RTE. 2853	SECTION 05-00240-00-TL	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 12
		DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	CHICAGO AVENUE AT KEDZIE STREET				CONTRACT NO. 163111	
		CHECKED -	REVISED -		SCALE:	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		DATE -	REVISED -							

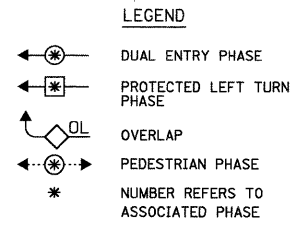
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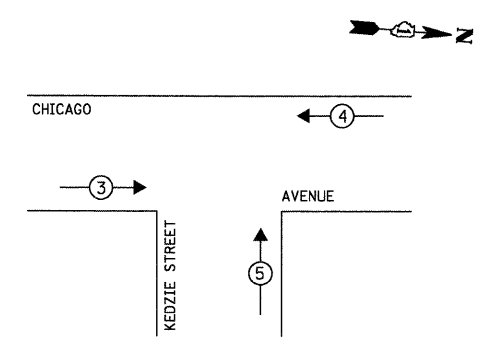
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

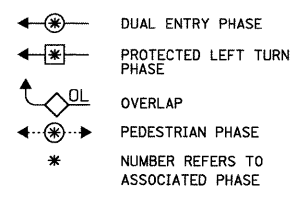


EMERGENCY VEHICLE PREEMPTION SEQUENCE

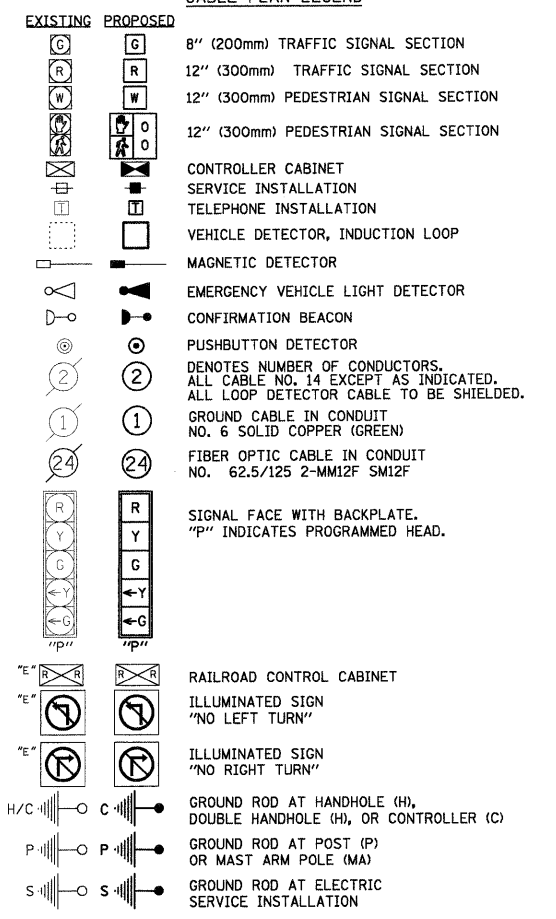


PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑

LEGEND

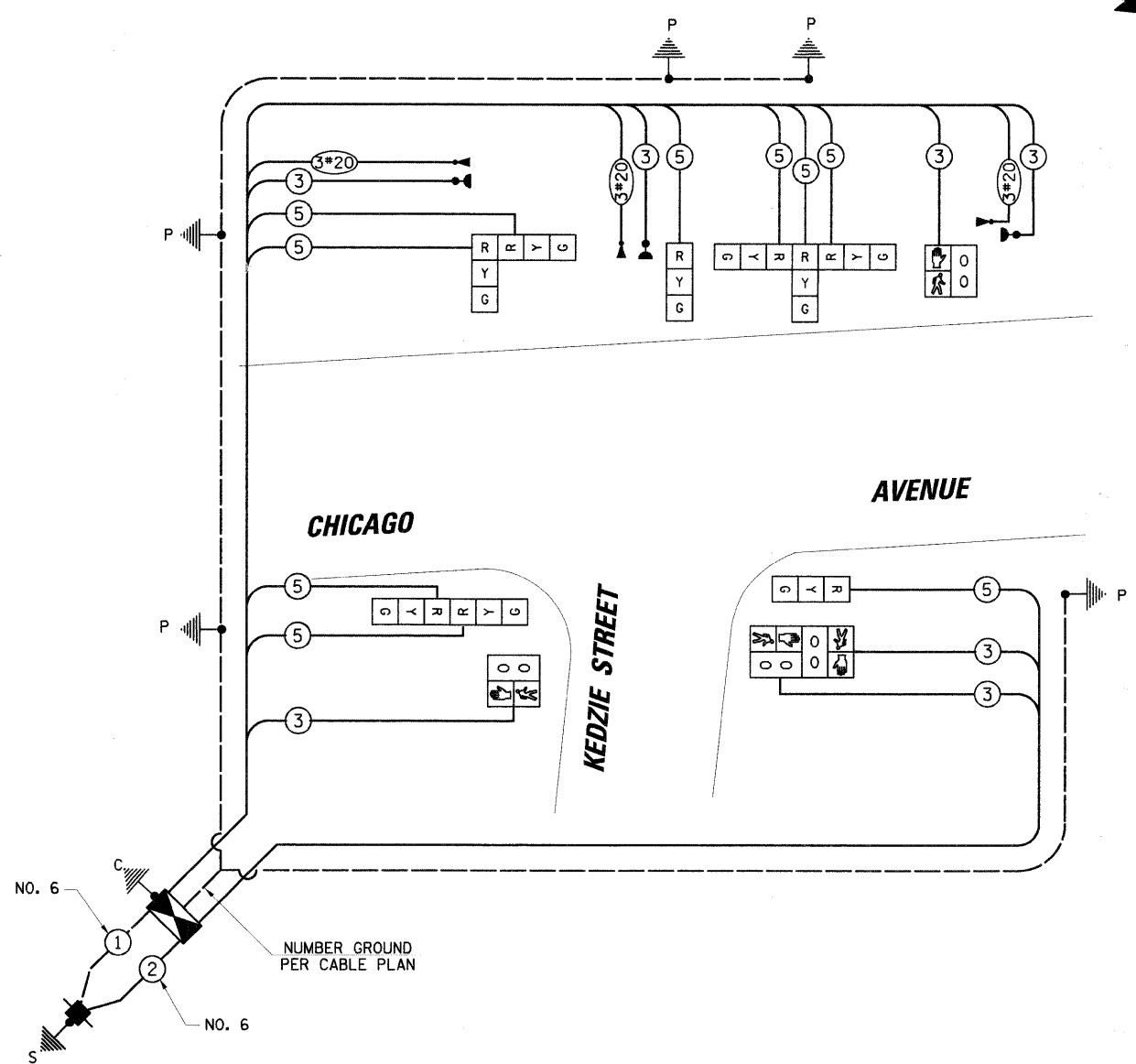


CABLE PLAN LEGEND



SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	896
DETECTABLE WARNINGS	SQ FT	68
SIDEWALK REMOVAL	SQ FT	896
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	85
SIGN PANEL - TYPE 1	SQ FT	28125
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	209
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	71
THERMOPLASTIC PAVEMENT MARKING REMOVAL	FOOT	728
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	53
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	0
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	129
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	68
FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	948
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1217
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PR	FOOT	0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	20
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE D	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	0
DETECTOR LOOP, TYPE I	FOOT	0
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C	FOOT	395
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	491



NOTE:
 PEDESTRIAN PHASES 2 AND 8 SHALL BE ON RECALL.

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED X % OPERATION		
SIGNAL (RED)	9	17	0.50	76.50	
(YELLOW)	9	25	0.25	56.25	
(GREEN)	9	15	0.25	33.75	
ARROW	-	12	0.10	-	
PED. SIGNAL	4	25	1.00	100.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN	-	25	0.05	-	
FLASHER	-	-	0.50	-	

ENERGY COSTS TO: TOTAL = 366.50
CITY OF EVANSTON
 2100 RIDGE AVENUE
 EVANSTON, ILLINOIS 60201-2798
 ENERGY SUPPLY: CONTACT: LARRY SHANK
 PHONE: (847) 816-5465
 COMPANY: COMED

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)
36" (900mm)	15 (4.6)	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)













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

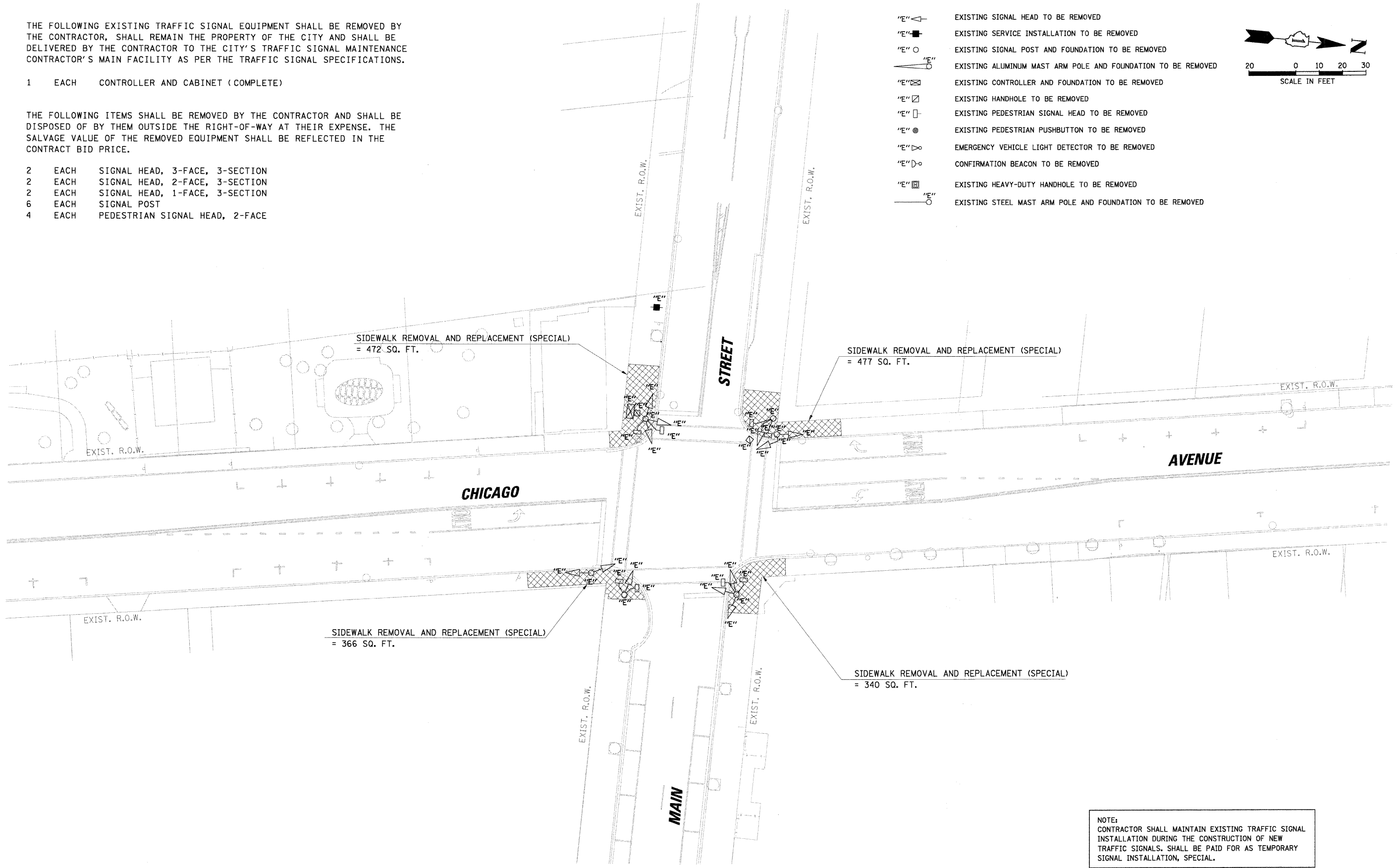
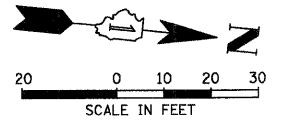
1 EACH CONTROLLER AND CABINET (COMPLETE)

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

2 EACH SIGNAL HEAD, 3-FACE, 3-SECTION
 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
 6 EACH SIGNAL POST
 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- "E"  EXISTING SIGNAL HEAD TO BE REMOVED
- "E"  EXISTING SERVICE INSTALLATION TO BE REMOVED
- "E"  EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- "E"  EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E"  EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E"  EXISTING HANDHOLE TO BE REMOVED
- "E"  EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- "E"  EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "E"  EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- "E"  CONFIRMATION BEACON TO BE REMOVED
- "E"  EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- "E"  EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED



NOTE:
 CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL INSTALLATION DURING THE CONSTRUCTION OF NEW TRAFFIC SIGNALS. SHALL BE PAID FOR AS TEMPORARY SIGNAL INSTALLATION, SPECIAL.

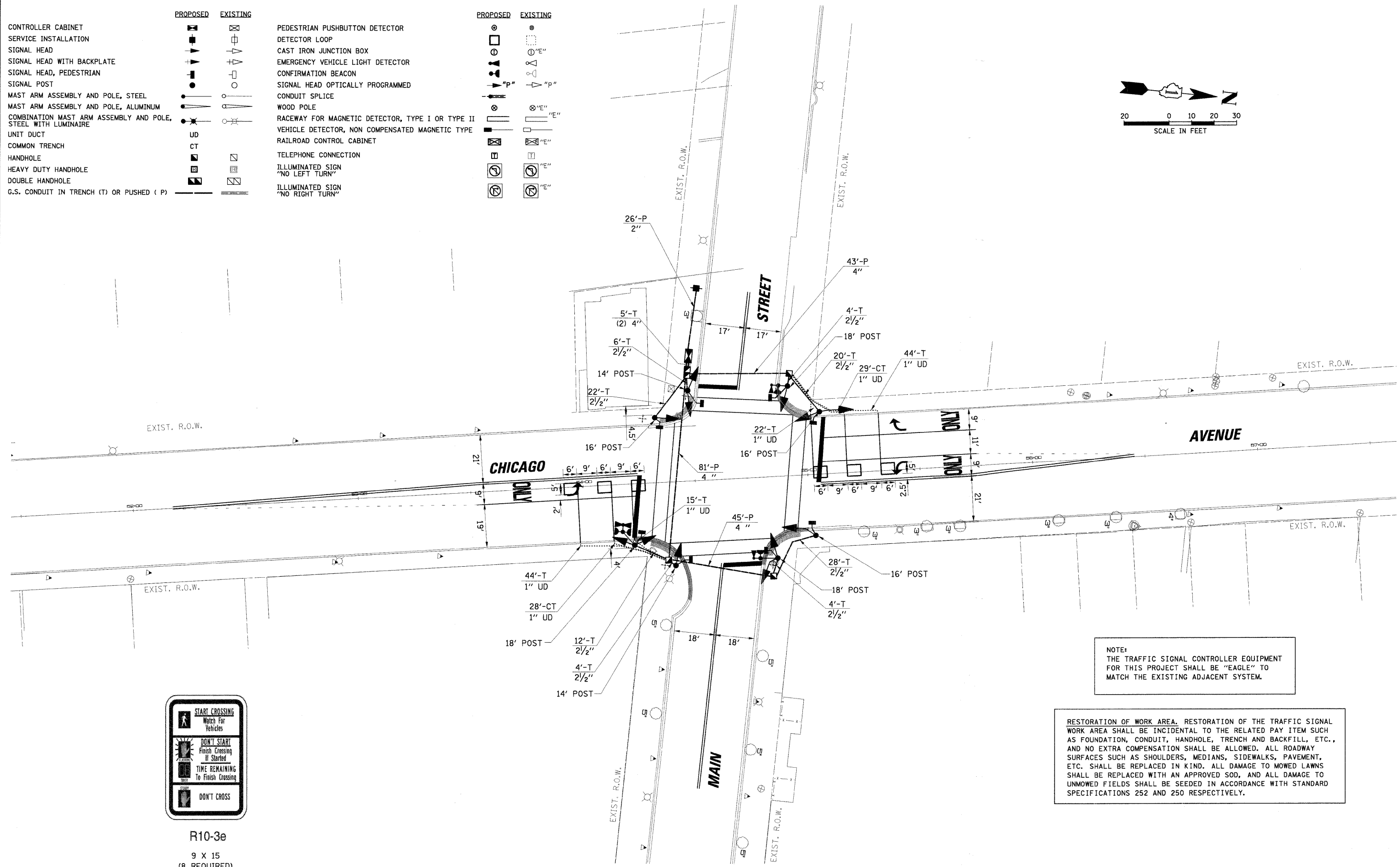
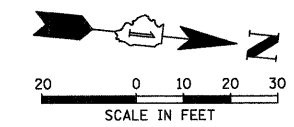
DATE	BY	PLANNING	DATE	BY
DATE	BY	PROFILES	DATE	BY
DATE	BY	STRUCTURE NOTATIONS	DATE	BY
DATE	BY	TRAFFIC SIGNALS	DATE	BY
DATE	BY	TRAFFIC SIGNALS	DATE	BY

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 3575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

FILE NAME =	USER NAME = FPACIONE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT CHICAGO AVENUE AT MAIN STREET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA\EVANSTON\06202\Traffic\TMP_main-chidgn		DRAWN -	REVISED -			2853	05-00240-00-TL	COOK	24	14
PLOT SCALE = 20'		CHECKED -	REVISED -			CONTRACT NO. 63111				
PLOT DATE = 11/2/2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

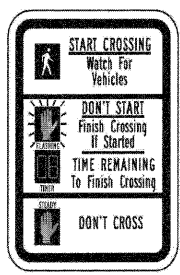
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			CAST IRON JUNCTION BOX		
SIGNAL HEAD WITH BACKPLATE			EMERGENCY VEHICLE LIGHT DETECTOR		
SIGNAL HEAD, PEDESTRIAN			CONFIRMATION BEACON		
SIGNAL POST			SIGNAL HEAD OPTICALLY PROGRAMMED		
MAST ARM ASSEMBLY AND POLE, STEEL			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			WOOD POLE		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
UNIT DUCT	UD		VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
COMMON TRENCH	CT		RAILROAD CONTROL CABINET		
HANDHOLE			TELEPHONE CONNECTION		
HEAVY DUTY HANDHOLE			ILLUMINATED SIGN "NO LEFT TURN"		
DOUBLE HANDHOLE			ILLUMINATED SIGN "NO RIGHT TURN"		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)					



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

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



R10-3e
9 x 15
(8 REQUIRED)

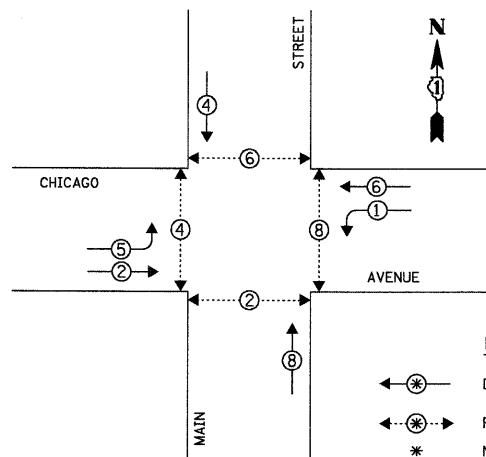
DATE	BY	DATE	BY
DATE	BY	DATE	BY

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

FILE NAME = N:\EVANSTON\062021\Traffic\MOD_main-chi.dgn	USER NAME = FPACONE	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN CHICAGO AVENUE AT MAIN STREET	F.A.U. RTE. 2853	SECTION 05-00240-00-TL	COUNTY COOK	TOTAL SHEETS 24	SHEET NO. 15	CONTRACT NO. 63111
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 8575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

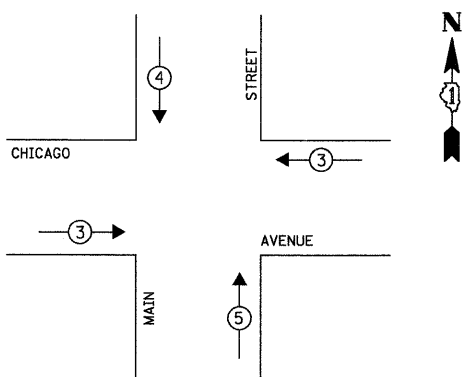
CONTROLLER SEQUENCE



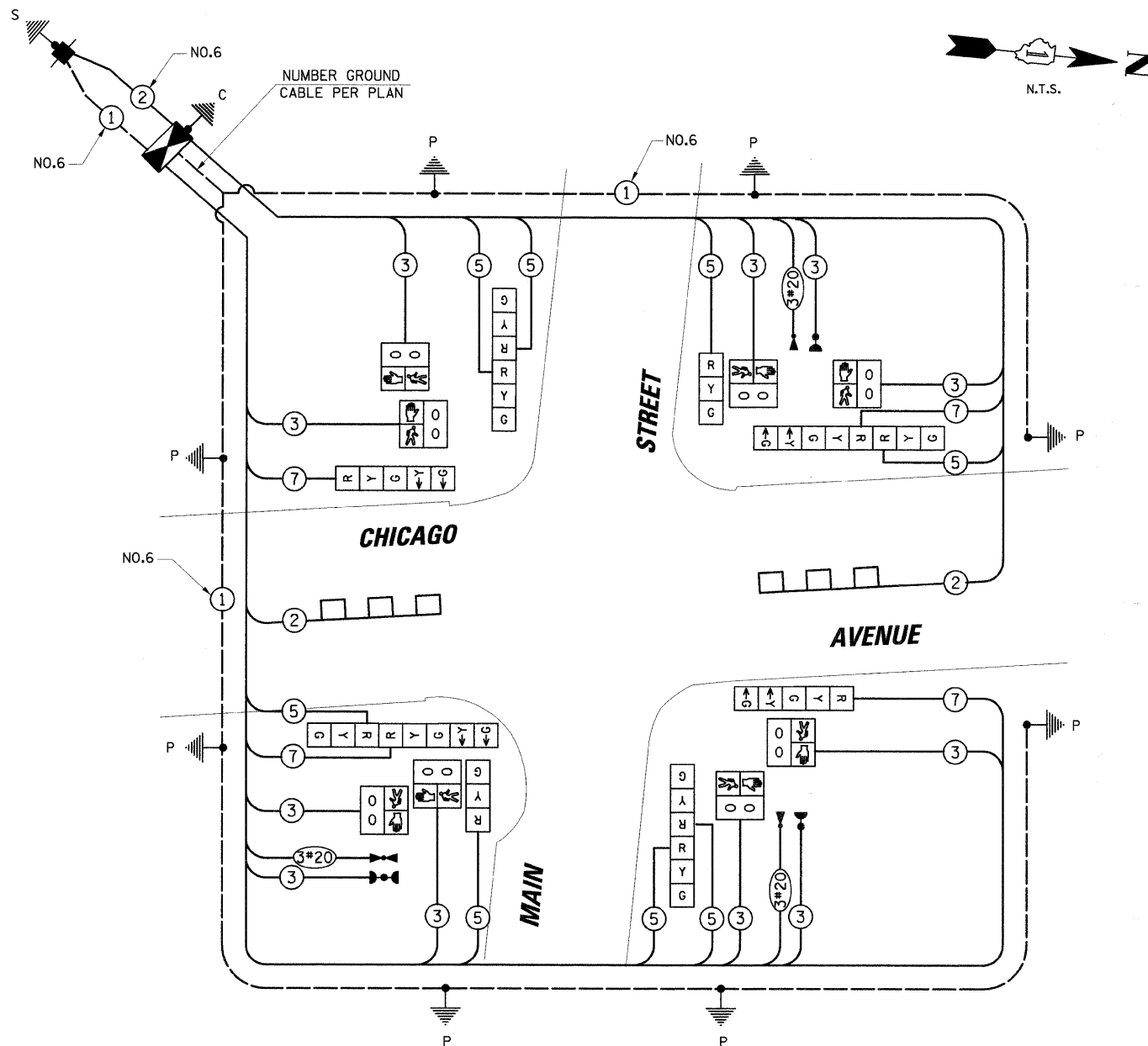
LEGEND
 ←*→ DUAL ENTRY PHASE
 ←*→ PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	←	↓	↑



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
(G)	(G)	8" (200mm) TRAFFIC SIGNAL SECTION
(R)	(R)	12" (300mm) TRAFFIC SIGNAL SECTION
(W)	(W)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(O)	(O)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(C)	(C)	CONTROLLER CABINET
(S)	(S)	SERVICE INSTALLATION
(T)	(T)	TELEPHONE INSTALLATION
(V)	(V)	VEHICLE DETECTOR, INDUCTION LOOP
(M)	(M)	MAGNETIC DETECTOR
(E)	(E)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	CONFIRMATION BEACON
(P)	(P)	PUSHBUTTON DETECTOR
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(1)	(1)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-NM12F SM12F
(R)	(R)	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
(R)	(R)	RAILROAD CONTROL CABINET
(E)	(E)	ILLUMINATED SIGN "NO LEFT TURN"
(E)	(E)	ILLUMINATED SIGN "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
EXPLORATION TRENCH, SPECIAL	EACH	4
DETECTABLE WARNINGS	SQ FT	123
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	126
SIDEWALK REMOVAL AND REPLACEMENT (SPECIAL)	SQ FT	1655
SIGN PANEL - TYPE 1	SQ FT	7.5
THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	109.2
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1001
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	635
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	91
THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	109.2
THERMOPLASTIC PAVEMENT MARKING REMOVAL	FOOT	1558
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	90
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	49
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	169
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	225
FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1351
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	889
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	500
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PR	FOOT	175
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	64
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE D	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	263
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C	FOOT	470
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	418

NOTE:
 PEDESTRIAN PHASES 2, 4, 6, AND 8 SHALL BE ON RECALL.

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED % OPERATION		
SIGNAL (RED)	12	17	0.50	102.00	
(YELLOW)	12	25	0.25	75.00	
(GREEN)	12	15	0.25	45.00	
ARROW	8	12	0.10	9.60	
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN	-	25	0.05	-	
FLASHER			0.50		

ENERGY COSTS TO: TOTAL = 531.60

CITY OF EVANSTON
 2100 RIDGE AVENUE
 EVANSTON, ILLINOIS 60201-2798
 ENERGY SUPPLY: CONTACT: LARRY SHANK
 PHONE: (847) 816-5465
 COMPANY: COMED

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)
36" (900mm)	15 (4.6)	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 CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 CHICAGO AVENUE AT MAIN STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2853	05-00240-00-TL	COOK	24	16

CONTRACT NO. 63111

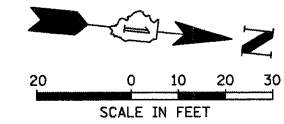
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		DRAWN	REVISED
		CHECKED	REVISED
		DATE	REVISED

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

1 EACH CONTROLLER AND CABINET (COMPLETE)

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

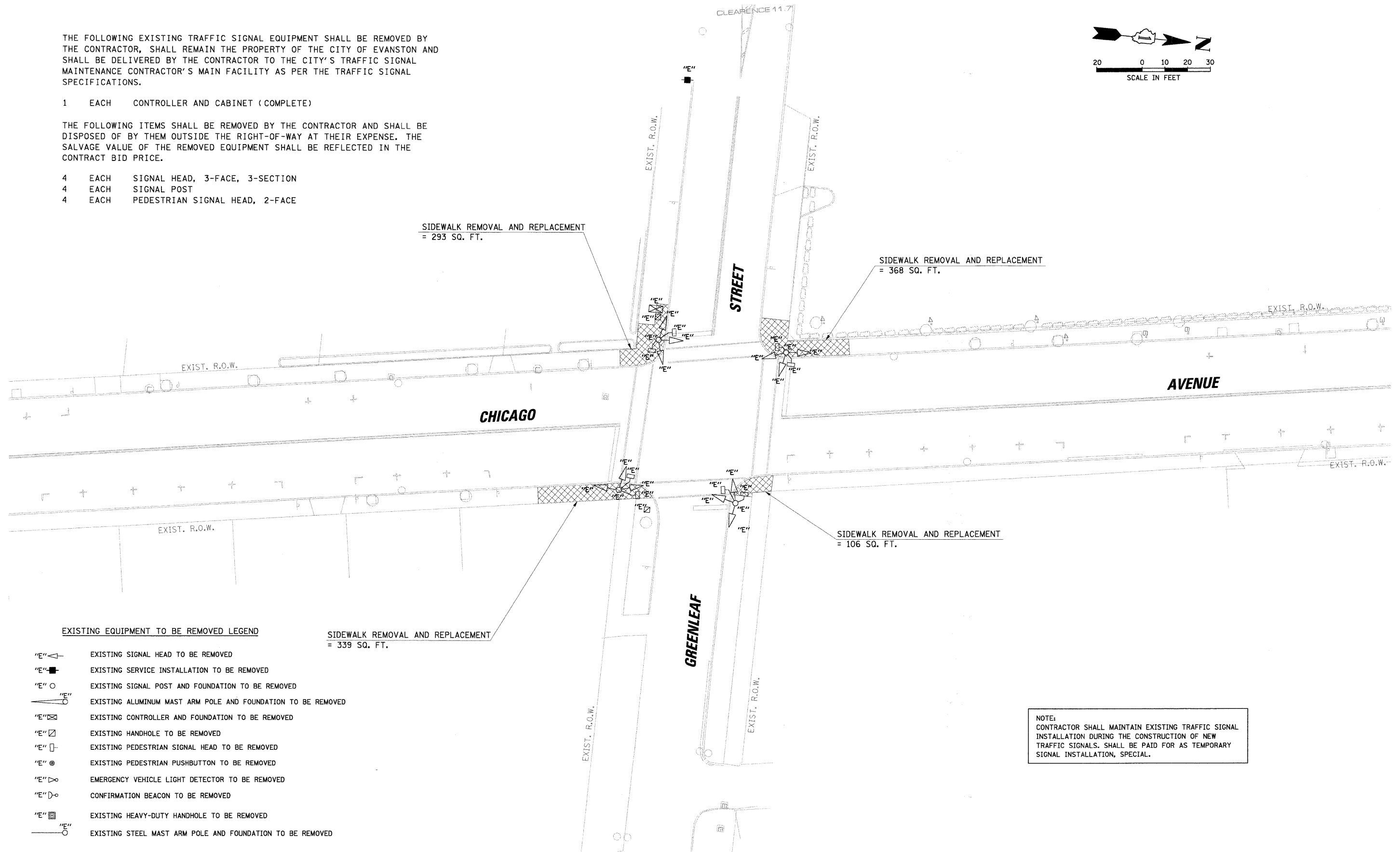
4 EACH SIGNAL HEAD, 3-FACE, 3-SECTION
 4 EACH SIGNAL POST
 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE



DATE	BY	DATE	BY
DATE	BY	DATE	BY

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 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 923-0500

PROFILE
 SURVEYED
 PLOTTED
 CHECKED
 BY
 DATE



EXISTING EQUIPMENT TO BE REMOVED LEGEND

- "E" EXISTING SIGNAL HEAD TO BE REMOVED
- "E" EXISTING SERVICE INSTALLATION TO BE REMOVED
- "E" EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- "E" EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E" EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E" EXISTING HANDHOLE TO BE REMOVED
- "E" EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- "E" EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "E" EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- "E" CONFIRMATION BEACON TO BE REMOVED
- "E" EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- "E" EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

SIDEWALK REMOVAL AND REPLACEMENT
 = 339 SQ. FT.

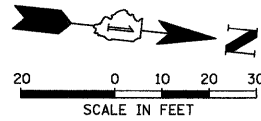
SIDEWALK REMOVAL AND REPLACEMENT
 = 293 SQ. FT.

SIDEWALK REMOVAL AND REPLACEMENT
 = 368 SQ. FT.

SIDEWALK REMOVAL AND REPLACEMENT
 = 106 SQ. FT.

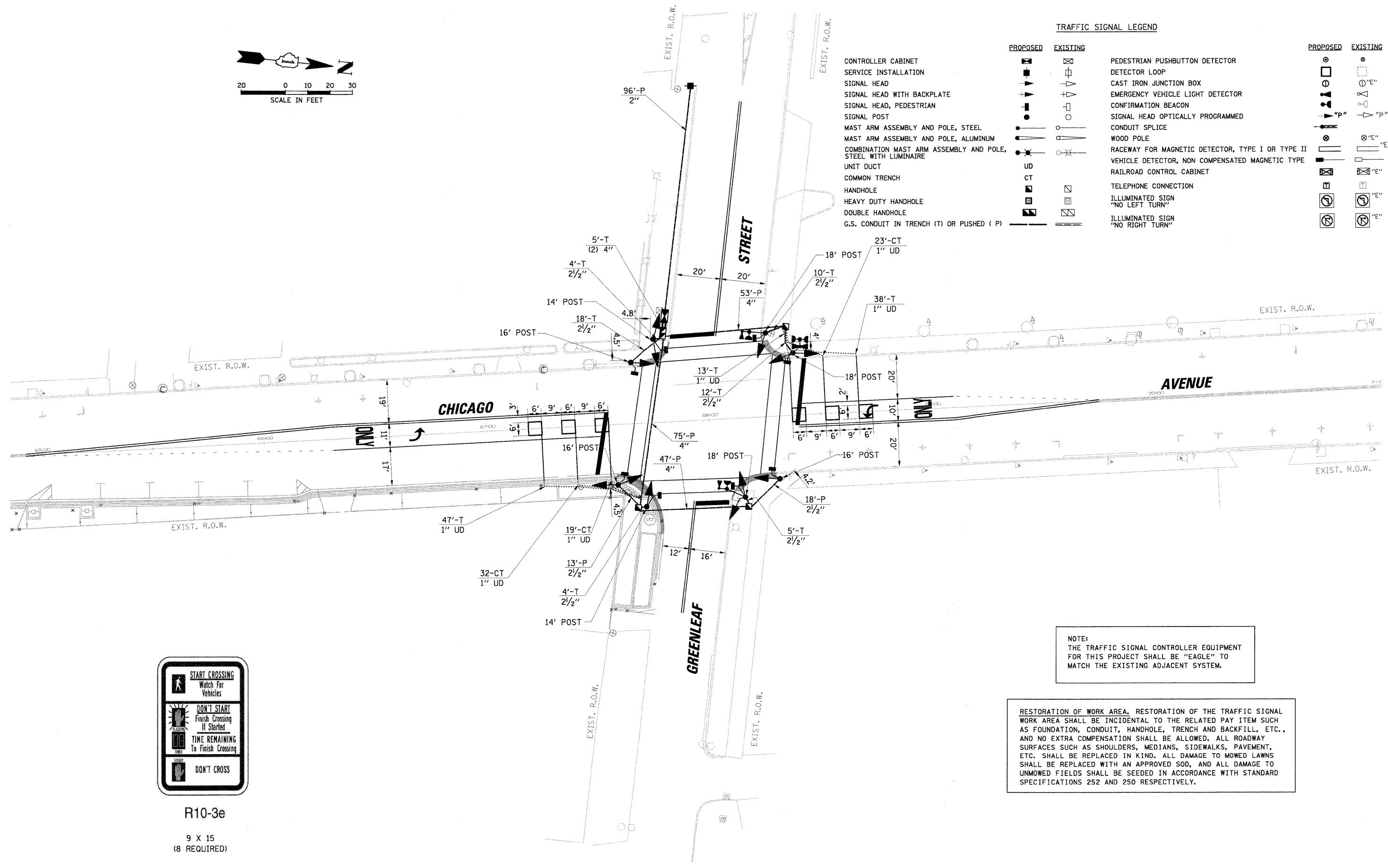
NOTE:
 CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL INSTALLATION DURING THE CONSTRUCTION OF NEW TRAFFIC SIGNALS. SHALL BE PAID FOR AS TEMPORARY SIGNAL INSTALLATION, SPECIAL.

FILE NAME = N:\EVANSTON\B6202\Traffic\TMP-grnleaf-chi.dgn	USER NAME = FPAIONE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT CHICAGO AVENUE AT GREENLEAF STREET	F.A.U. RTE. 2853	SECTION 05-00240-00-TL	COUNTY COOK	TOTAL SHEETS 24	SHEET NO. 17
PLOT SCALE = 20'	PLOT DATE = 11/2/2009	DRAWN -	REVISED -			CONTRACT NO. 63111				
CHECKED -	DATE -	REVISIONS -	REVISIONS -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE:										



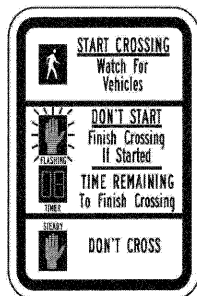
TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING



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

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



R10-3e
9 X 15
(8 REQUIRED)

DATE	BY	DATE	BY
DATE	BY	DATE	BY

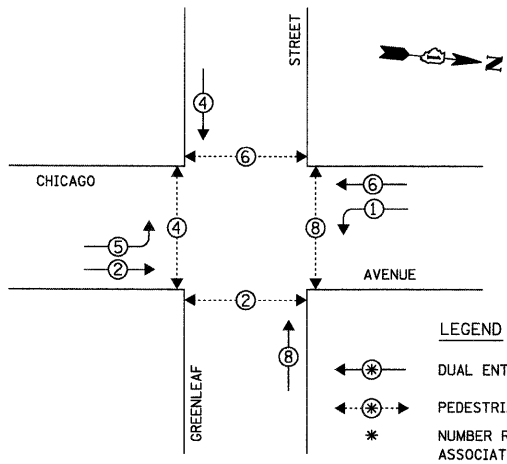
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9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

FILE NAME = N:\EVANSTON\06202\Traffic\M00.grnloaf-chn.dgn	USER NAME = FPACIONE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN CHICAGO AVENUE AT GREENLEAF STREET	F.A.U. RTE. 2853	SECTION 05-00240-00-TL	COUNTY COOK	TOTAL SHEETS 24	SHEET NO. 18
PLOT SCALE = 20'	CHECKED -	REVISED -	FED. ROAD DIST. NO. ILLINOIS			FED. AID PROJECT				
PLOT DATE = 11/2/2009	DATE -	REVISED -	CONTRACT NO. 63111							

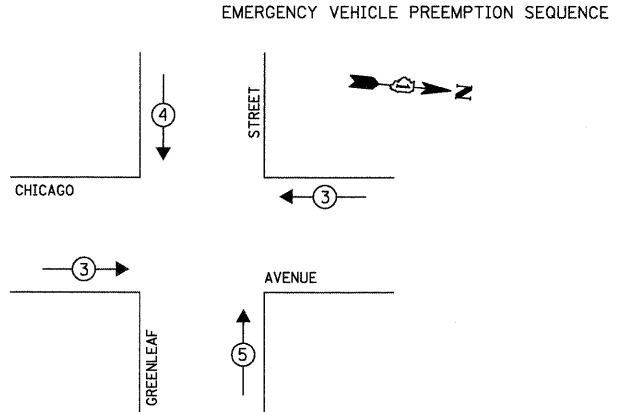
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 REVISIONS
 FILE NAME
 NO. DATE
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 FILE NAME
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 CHECKED
 FILE NAME
 NO. DATE

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 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	←	↓	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED x % OPERATION		
SIGNAL (RED)	12	17	0.50		102.00
(YELLOW)	12	25	0.25		75.00
(GREEN)	12	15	0.25		45.00
ARROW	8	12	0.10		9.60
PED. SIGNAL	8	25	1.00		200.00
CONTROLLER	1	100	1.00		100.00
ILLUM. SIGN	-	25	0.05		-
FLASHER			0.50		-

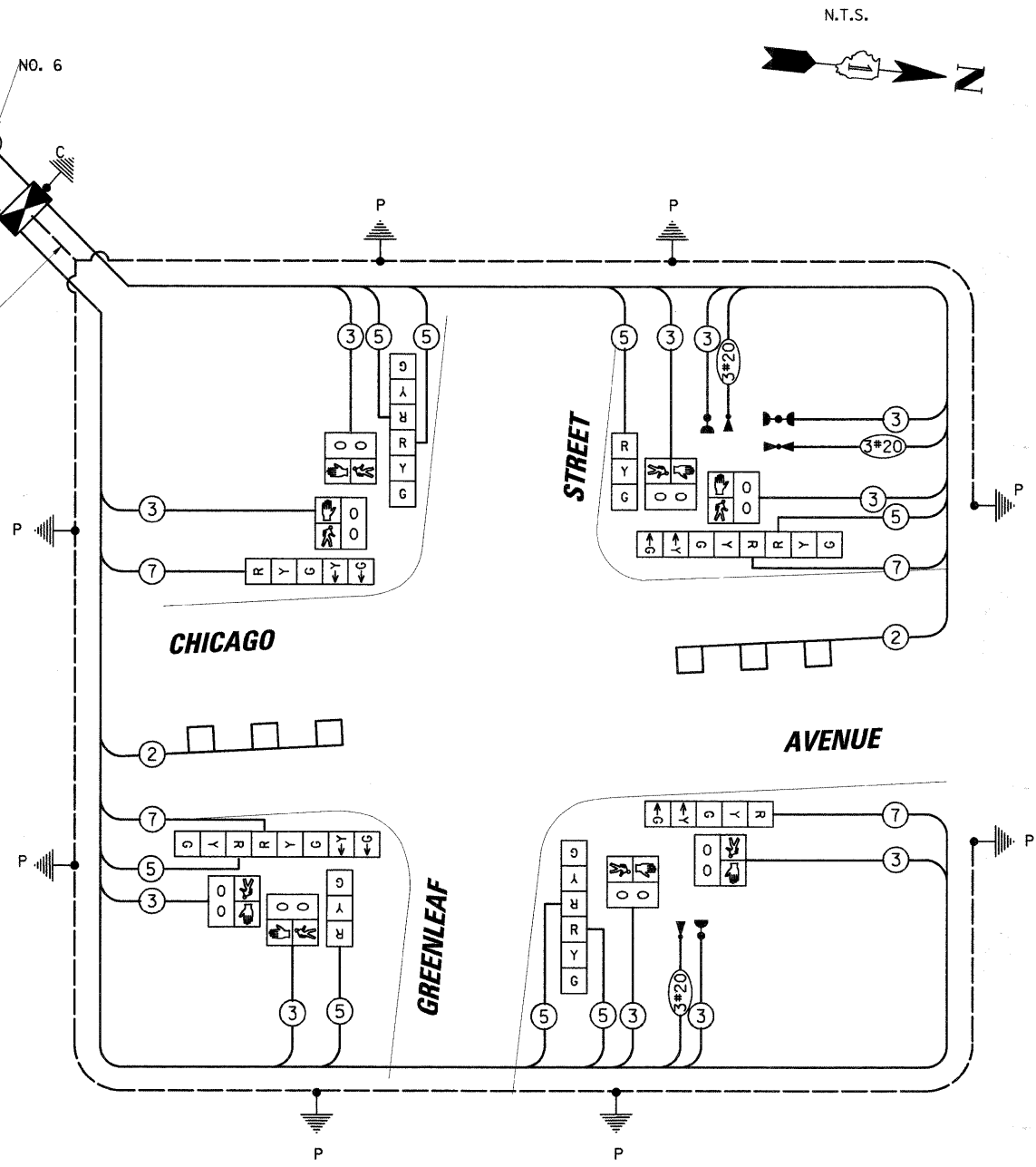
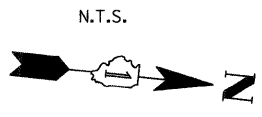
ENERGY COSTS TO: TOTAL = 531.60
CITY OF EVANSTON
 2100 RIDGE AVENUE
 EVANSTON, ILLINOIS 60201-2798
 ENERGY SUPPLY: CONTACT: LARRY SHANK
 PHONE: (847) 816-5465
 COMPANY: COMED

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)
36" (900mm)	15 (4.6)	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:
 PEDESTRIAN PHASES 2, 4, 6 AND 8 SHALL BE ON RECALL.

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
(G)	(G)	8" (200mm) TRAFFIC SIGNAL SECTION
(R)	(R)	12" (300mm) TRAFFIC SIGNAL SECTION
(W)	(W)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(O)	(O)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(C)	(C)	CONTROLLER CABINET
(S)	(S)	SERVICE INSTALLATION
(T)	(T)	TELEPHONE INSTALLATION
(V)	(V)	VEHICLE DETECTOR, INDUCTION LOOP
(M)	(M)	MAGNETIC DETECTOR
(E)	(E)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	CONFIRMATION BEACON
(P)	(P)	PUSHBUTTON DETECTOR
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(1)	(1)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
(R)	(R)	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
(E)	(E)	RAILROAD CONTROL CABINET
(E)	(E)	ILLUMINATED SIGN "NO LEFT TURN"
(E)	(E)	ILLUMINATED SIGN "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION













SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
EXPLORATION TRENCH, SPECIAL	EACH	4
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1108
DETECTABLE WARNINGS	SQ FT	107
SIDEWALK REMOVAL	SQ FT	1108
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	107
SIGN PANEL - TYPE 1	SQ FT	7.5
THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	72.8
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1371
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1117
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	637
THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	72.8
THERMOPLASTIC PAVEMENT MARKING REMOVAL	FOOT	1484
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	53
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	96
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	31
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	175
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	144
FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1323
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	893
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	479
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PR	FOOT	179
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	111
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE D	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	270
LIGHT DETECTOR	FOOT	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C	FOOT	507
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	403

PROFILE SURVEYED _____ DATE _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 STRUCTURE NOTATIONS CHECKED _____
 DATE _____
 PLAN SURVEYED _____ DATE _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 CAD FILE NAME _____

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CIB

EXISTING EQUIPMENT TO BE REMOVED LEGEND

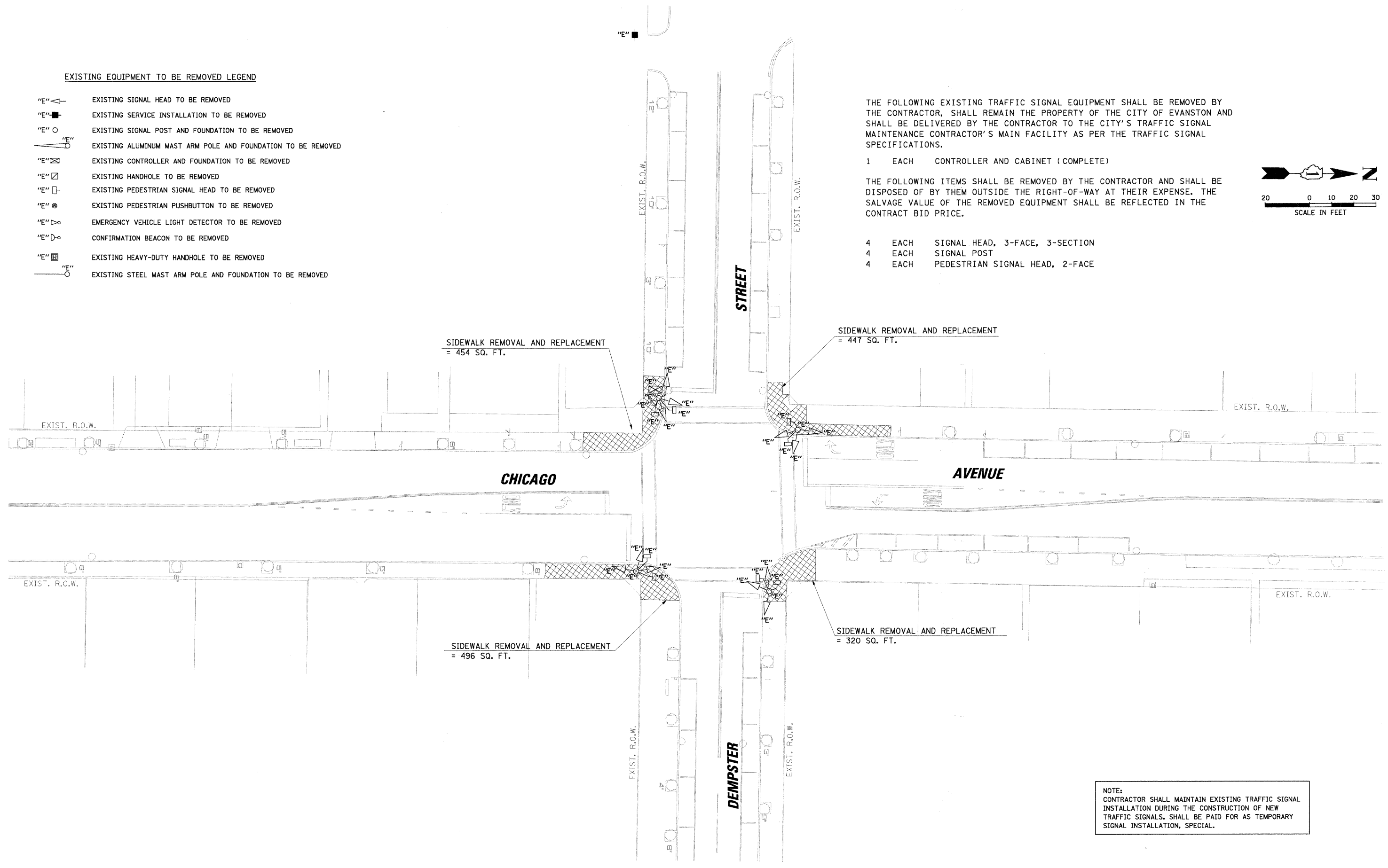
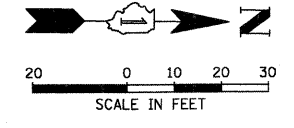
- "E"  EXISTING SIGNAL HEAD TO BE REMOVED
- "E"  EXISTING SERVICE INSTALLATION TO BE REMOVED
- "E"  EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- "E"  EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E"  EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E"  EXISTING HANDHOLE TO BE REMOVED
- "E"  EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- "E"  EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "E"  EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- "E"  CONFIRMATION BEACON TO BE REMOVED
- "E"  EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- "E"  EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)

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

- 4 EACH SIGNAL HEAD, 3-FACE, 3-SECTION
- 4 EACH SIGNAL POST
- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE

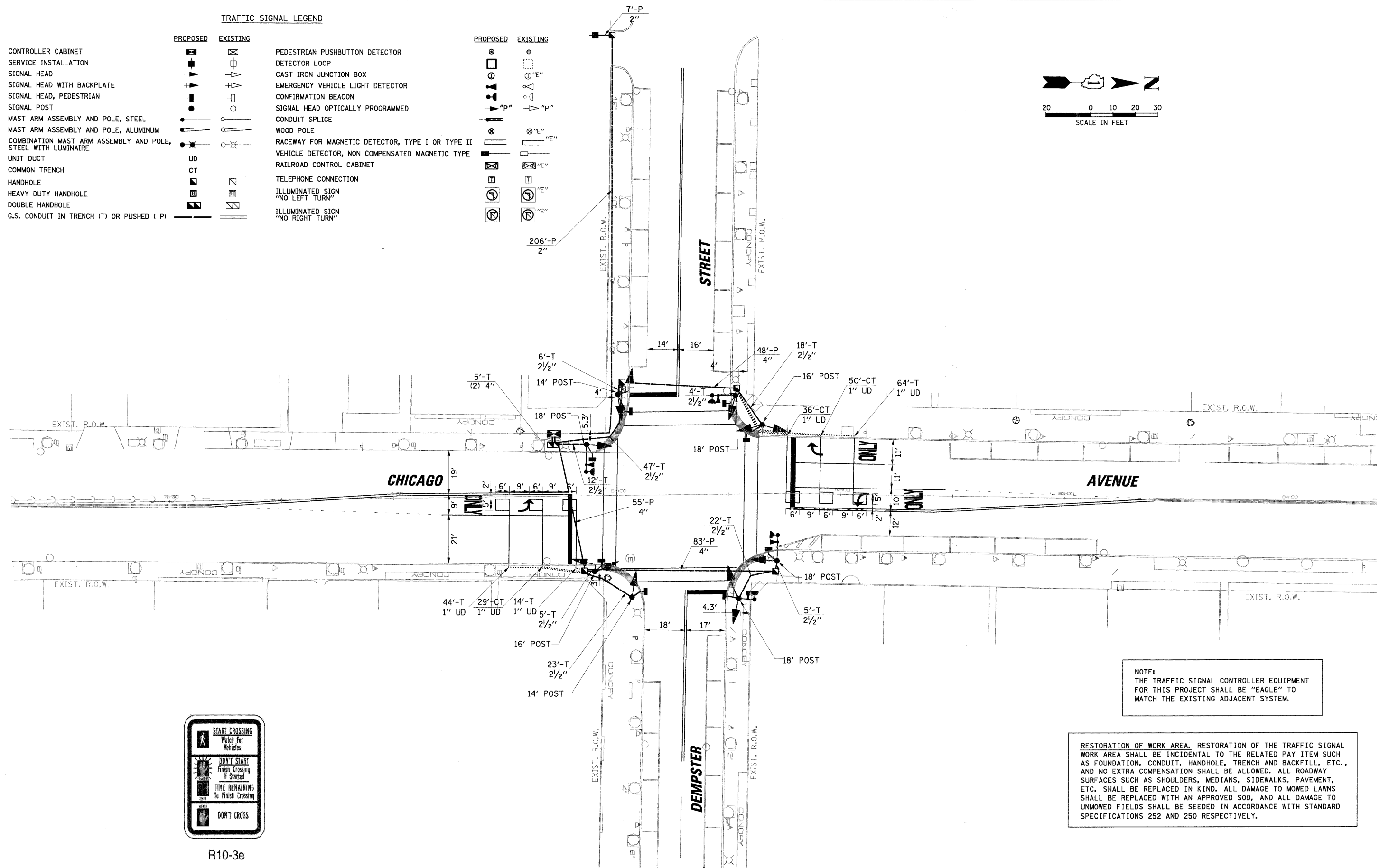
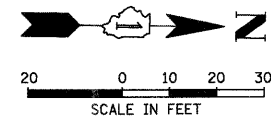


NOTE:
 CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL INSTALLATION DURING THE CONSTRUCTION OF NEW TRAFFIC SIGNALS. SHALL BE PAID FOR AS TEMPORARY SIGNAL INSTALLATION, SPECIAL.

FILE NAME = N:\EVANSTON\26202\Traffic\TMP_dspstr-chu.dgn	USER NAME = FPACIONE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT CHICAGO AVENUE AT DEMPSTER STREET	F.A.U. RTE. 2853	SECTION 05-00240-00-TL	COUNTY COOK	TOTAL SHEETS 24	SHEET NO. 20
PLCT SCALE = 20'	CHECKED -	REVISED -	CONTRACT NO. 63111							
PLCT DATE = 11/2/2009	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
SCALE:										

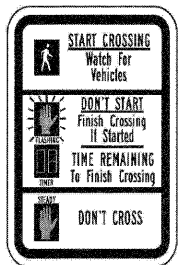
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			CAST IRON JUNCTION BOX		
SIGNAL HEAD WITH BACKPLATE			EMERGENCY VEHICLE LIGHT DETECTOR		
SIGNAL HEAD, PEDESTRIAN			CONFIRMATION BEACON		
SIGNAL POST			SIGNAL HEAD OPTICALLY PROGRAMMED		
MAST ARM ASSEMBLY AND POLE, STEEL			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			WOOD POLE		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
UNIT DUCT	UD		VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
COMMON TRENCH	CT		RAILROAD CONTROL CABINET		
HANDHOLE			TELEPHONE CONNECTION		
HEAVY DUTY HANDHOLE			ILLUMINATED SIGN "NO LEFT TURN"		
DOUBLE HANDHOLE			ILLUMINATED SIGN "NO RIGHT TURN"		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	T/P				



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

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



R10-3e
9 X 15
(8 REQUIRED)

DATE	BY	DATE	BY

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Rosemont, Illinois 60018
(847) 823-0500

DATE	BY	DATE	BY

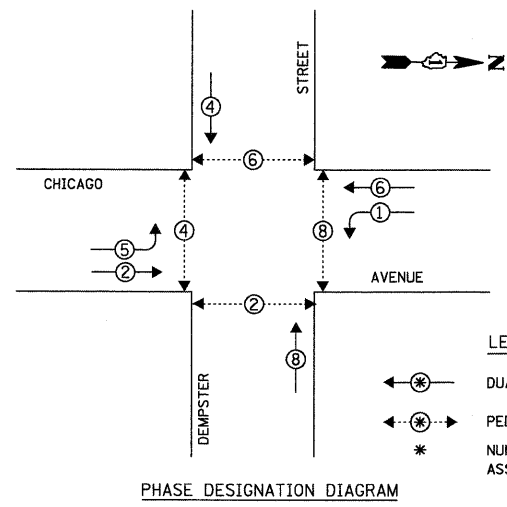
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PLOT SCALE = 20'	DATE = 11/2/2009	DRAWN -	REVISED -			CONTRACT NO. 63111				
		CHECKED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 PLAN: _____ NOTE BOOK: _____
 NO. _____ RT. OF MAY CHECKED: _____
 CAD FILE NAME: _____

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 Rosemont, Illinois 60018
 (847) 823-0500

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 PROFILE: _____ NOTE BOOK: _____
 NO. _____ STRUCTURE NOTATION: _____

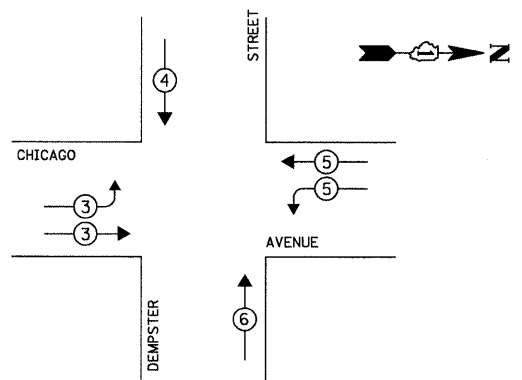
CONTROLLER SEQUENCE



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

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED % OPERATION		
SIGNAL (RED)	12	17	0.50	102.00	
(YELLOW)	12	25	0.25	75.00	
(GREEN)	12	15	0.25	45.00	
ARROW	8	12	0.10	9.60	
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN	-	25	0.05	-	
FLASHER			0.50		

ENERGY COSTS TO: TOTAL = 531.60

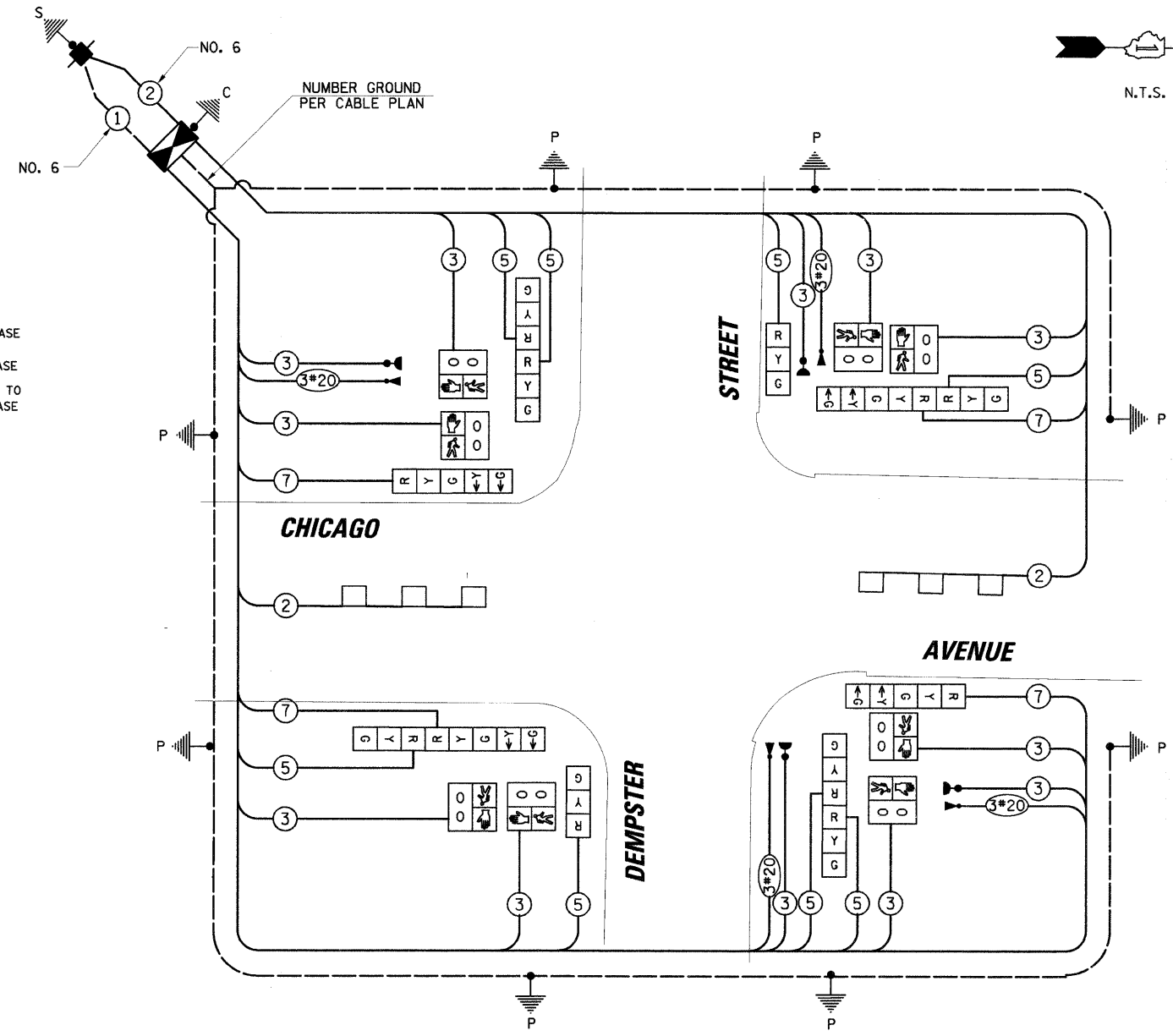
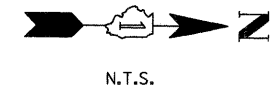
CITY OF EVANSTON
 2100 RIDGE AVENUE
 EVANSTON, ILLINOIS 60201-2798
 ENERGY SUPPLY: CONTACT: LARRY SHANK
 PHONE: (847) 816-5465
 COMPANY: COMED

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	2 (1.0)	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)
36" (900mm)	15 (4.6)	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:
 PEDESTRIAN PHASES 2, 4, 6 AND 8 SHALL BE ON RECALL.

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 SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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



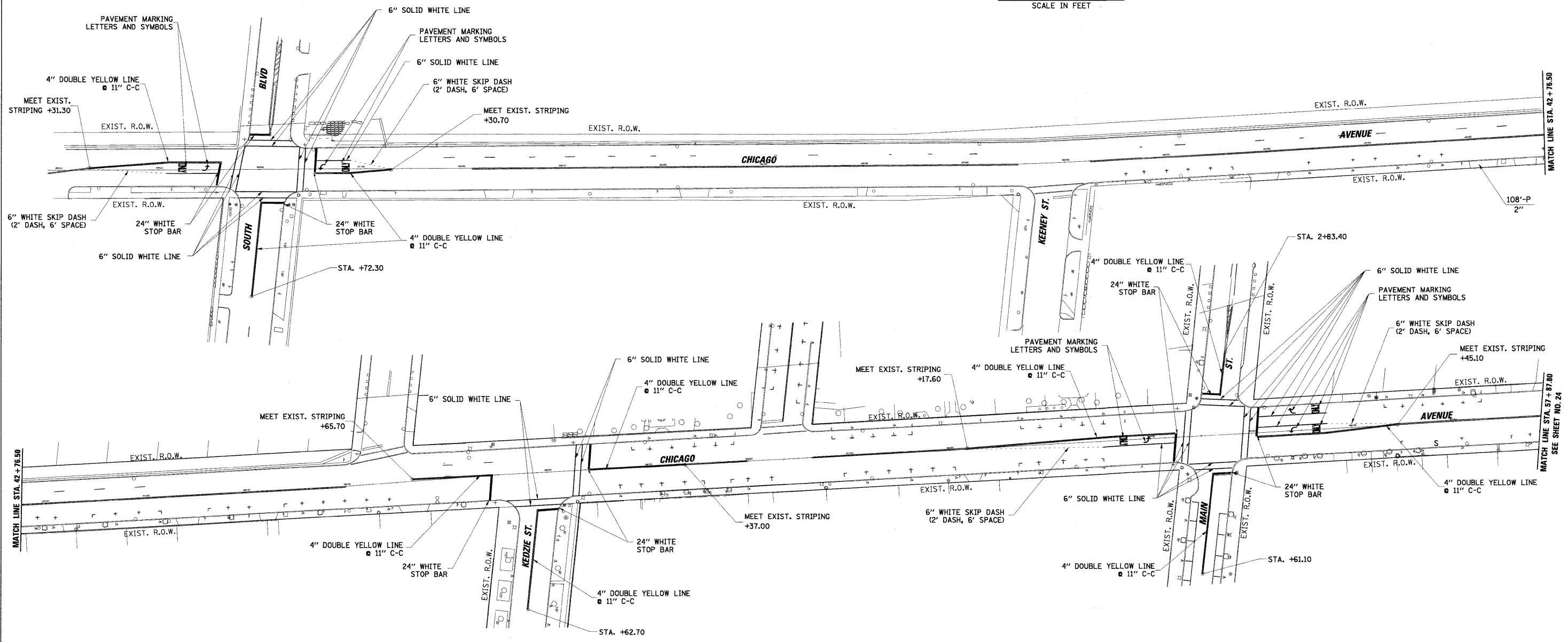
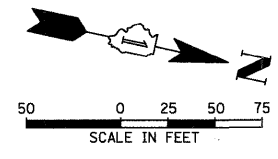
- CABLE PLAN LEGEND**
- | | | |
|----------|----------|---|
| EXISTING | PROPOSED | 8" (200mm) TRAFFIC SIGNAL SECTION |
| ⊙ | ⊙ | 12" (300mm) TRAFFIC SIGNAL SECTION |
| ⊙ | ⊙ | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| ⊙ | ⊙ | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| ⊙ | ⊙ | CONTROLLER CABINET |
| ⊙ | ⊙ | SERVICE INSTALLATION |
| ⊙ | ⊙ | TELEPHONE INSTALLATION |
| ⊙ | ⊙ | VEHICLE DETECTOR, INDUCTION LOOP |
| ⊙ | ⊙ | MAGNETIC DETECTOR |
| ⊙ | ⊙ | EMERGENCY VEHICLE LIGHT DETECTOR |
| ⊙ | ⊙ | CONFIRMATION BEACON |
| ⊙ | ⊙ | PUSHBUTTON DETECTOR |
| ⊙ | ⊙ | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| ⊙ | ⊙ | ⊙ GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| ⊙ | ⊙ | ⊙ FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| ⊙ | ⊙ | ⊙ SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. |
| ⊙ | ⊙ | ⊙ RAILROAD CONTROL CABINET |
| ⊙ | ⊙ | ⊙ ILLUMINATED SIGN "NO LEFT TURN" |
| ⊙ | ⊙ | ⊙ ILLUMINATED SIGN "NO RIGHT TURN" |
| H/C | ⊙ | ⊙ GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| P | ⊙ | ⊙ GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| S | ⊙ | ⊙ GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
EXPLORATION TRENCH, SPECIAL	EACH	4
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1717
DETECTABLE WARNINGS	SQ FT	146
SIDEWALK REMOVAL	SQ FT	1717
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	121
SIGN PANEL - TYPE 1	SQ FT	7.5
THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	109.2
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1094
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	657
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	103
THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	109.2
THERMOPLASTIC PAVEMENT MARKING REMOVAL	FOOT	1788
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	142
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	213
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	186
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	260
FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1689
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1138
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	503
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PR	FOOT	208
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	234
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE D	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	278
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C	FOOT	697
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	1138

SURVEYED BY: _____ DATE: _____
 PLOTTED BY: _____
 CHECKED BY: _____
 DATE: _____
 PLAN NO.: _____
 CADD FILE NAME: _____
 PROFILE NO.: _____
 DATE: _____
 STRUCTURE NOTATIONS: CHYD

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 (647) 823-0500



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
DETECTOR LOOP		
SYSTEM		
INTERSECTION		
UNIT DUCT		
COMMON TRENCH		

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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

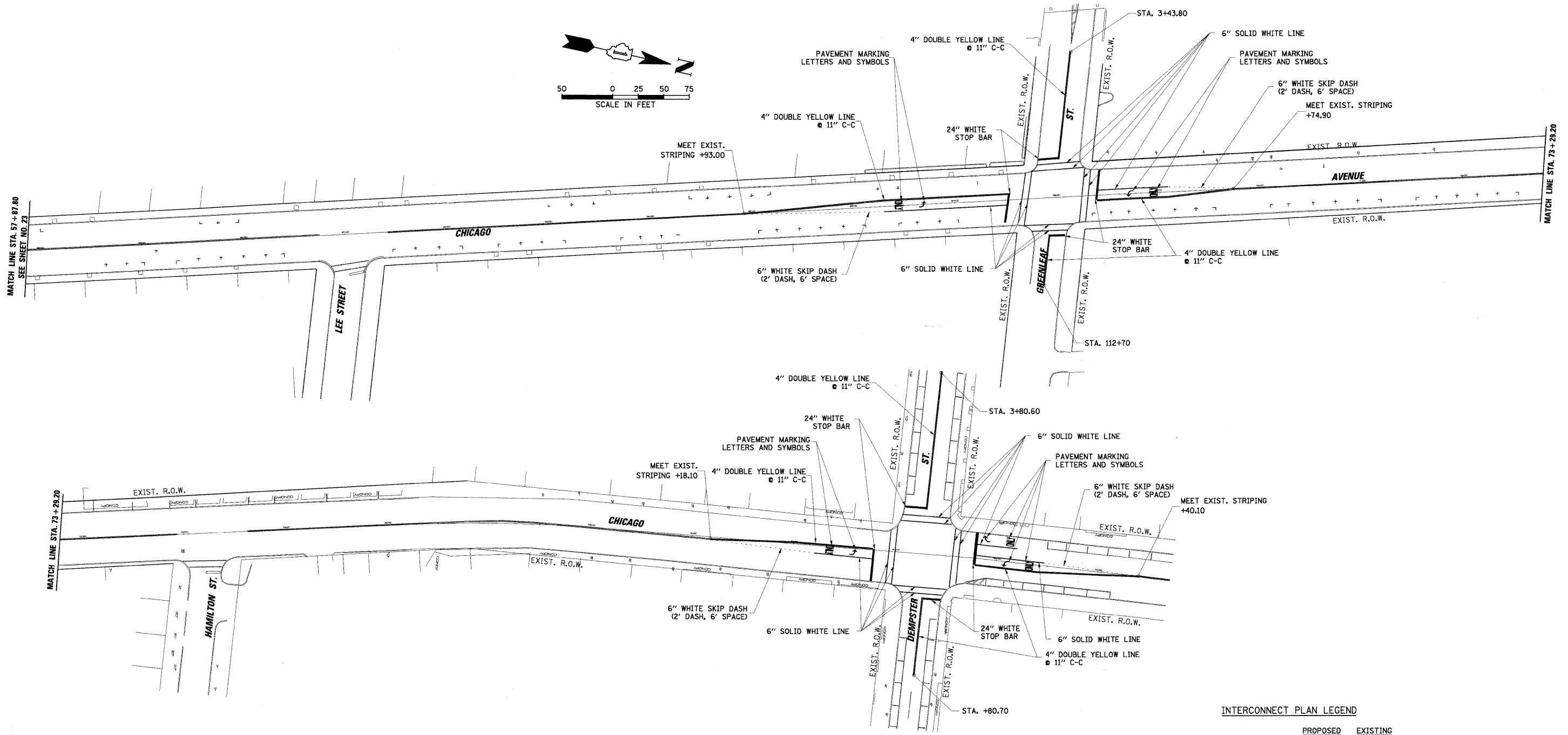
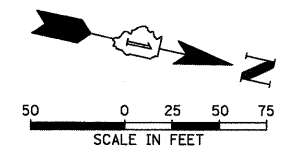
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
 CHICAGO AVENUE
 FROM SOUTH STREET TO DEMPSTER STREET

F.A.U. RTE. 2853	SECTION 05-00240-00-TL	COUNTY COOK	TOTAL SHEETS 24	SHEET NO. 23
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT CONTRACT NO. 63111		

PROFILE SURVEYED _____ DATE _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 STRUCTURE NOTATIONS CHKD _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 PLAN SURVEYED _____ DATE _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 CADD FILE NAME _____

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INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
DETECTOR LOOP		
SYSTEM	S	
INTERSECTION	IP	I
UNIT DUCT	UD	
COMMON TRENCH	CT	

FILE NAME = H:\EVANSTON\052022\Traffic\pmk2_06202.dgn	USER NAME = FPAICONE	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN CHICAGO AVENUE FROM SOUTH STREET TO DEMPSTER STREET	F.A.U. RTE. 2853	SECTION 05-00240-00-TL	COUNTY COOK	TOTAL SHEETS 24	SHEET NO. 24
PLOT SCALE = 50'	CHECKED -	REVISED -	SCALE:			CONTRACT NO. 63111				
PLOT DATE = 11/2/2009	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				