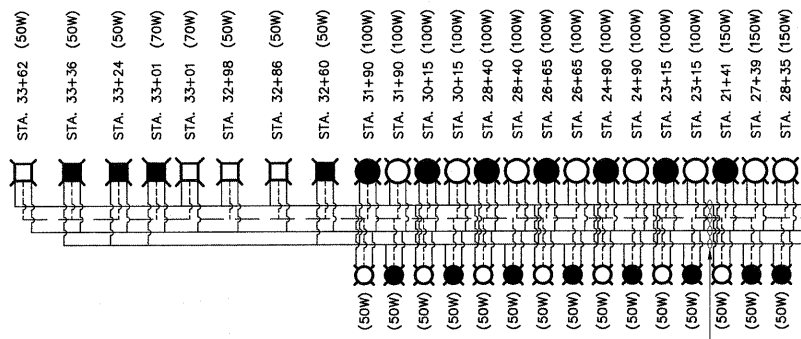


PROPOSED LIGHTING

OAK PARK AVENUE
31ST STREET TO 28TH STREET



UNIT DUCT, WITH 3 1/C No. 6 AND 1/C No. 6
GROUND 600V (XLP TYPE USE), 1-1/4"

UNIT DUCT, WITH 3 1/C No. 2 AND 1/C No. 2
GROUND 600V (XLP TYPE USE), 1-1/2"

GROUND ROD
5/8" x 10'

GROUND BUS

#8 AVG
NEUTRAL BUS

LUMINAIRE LEGEND

- EXISTING - 150W
- PROPOSED - WATTAGE SHOWN
- PROPOSED - 50W
- PROPOSED - UNDERPASS, WALL MOUNT - 50W
- PROPOSED - UNDERPASS, WALL MOUNT - 70W

NOTE:
CONTROL WIRING IS NO.12
POWER WIRING IS NO.1/0

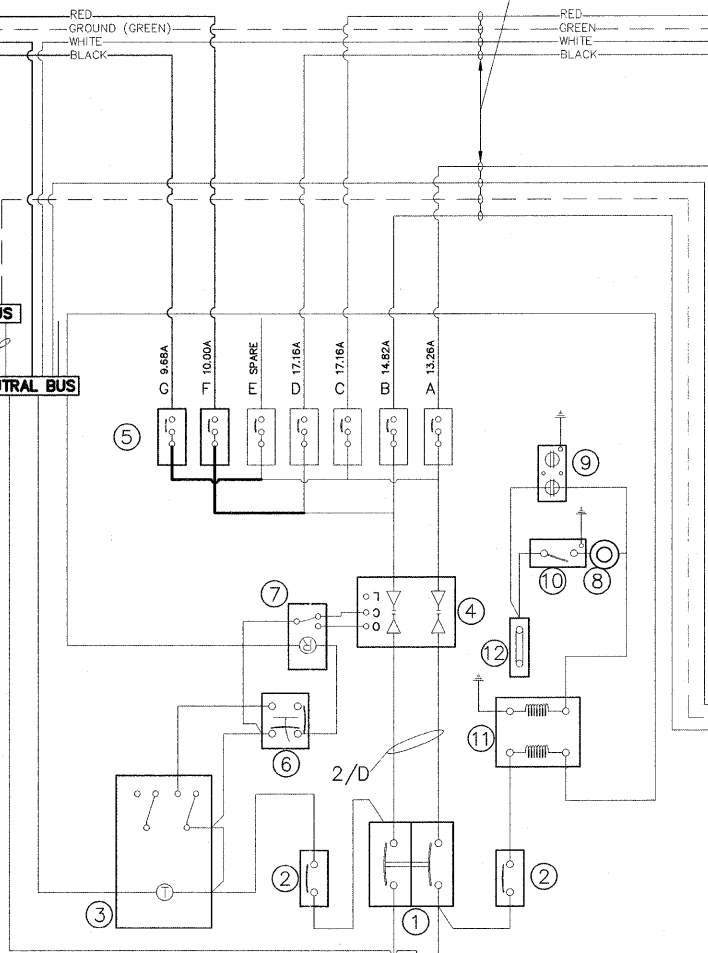
NOTE:
NEUTRAL BUS IS PAINTED WHITE.
GROUND BUS IS PAINTED GREEN.

NOTE:
CIRCUITS E IS SPARE

CONTROLLER DIAGRAM

EXISTING CONTROLLER #6

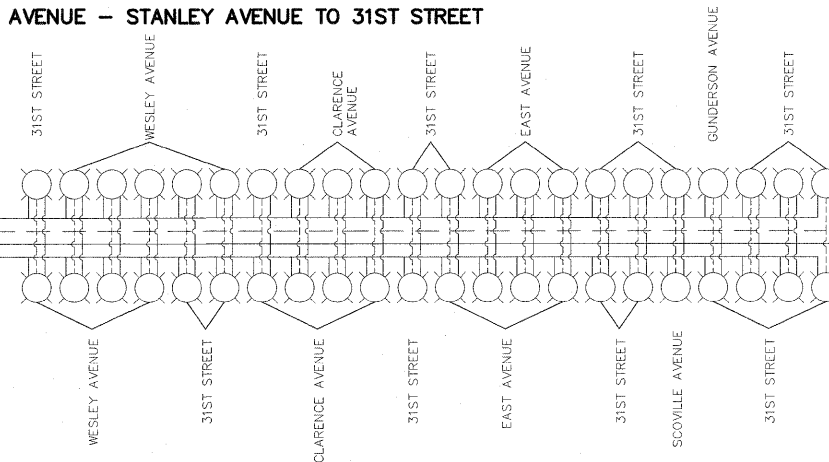
UNIT DUCT, WITH 3 1/C No. 6 AND 1/C No. 6
GROUND 600V (XLP TYPE USE), 1-1/4"



EXISTING SERVICE CABLE 3-1/C NO.1/0,
3 WIRE, 240/480 VOLT, 1 PHASE, 60HZ.

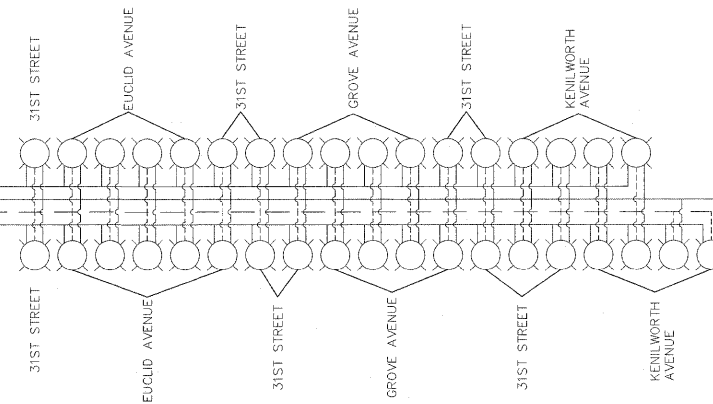
EXISTING RESIDENTIAL STREET LIGHTING

31ST STREET - B/T EUCLID AVE & WESLEY AVE TO RIDGELAND AVENUE
WESLEY AVENUE - STANLEY AVENUE TO 30TH STREET
CLARENCE AVENUE - STANLEY AVENUE TO 30TH STREET
EAST AVENUE - STANLEY AVENUE TO 30TH STREET
GUNDERSON AVENUE - STANLEY AVENUE TO 31ST STREET



EXISTING RESIDENTIAL STREET LIGHTING

31ST STREET - CLINTON AVENUE TO B/T EUCLID AVE & WESLEY AVE
KENILWORTH AVENUE - STANLEY AVENUE TO 31ST STREET
GROVE AVENUE - STANLEY AVENUE TO 31ST STREET
EUCLID AVENUE - STANLEY AVENUE TO 30TH STREET



CIRCUIT LOAD TABLE

Circuit	Controller #6 = 150A MAIN																																											
	A				B				C				D				E				F				G																			
Luminaire Wattage	50W	100W	150W	70W	50W	50W	100W	150W	70W	50W	50W	100W	150W	70W	50W	50W	100W	150W	70W	50W	50W	100W	150W	70W	50W	50W	100W	150W	70W	50W														
Red West	Number of Lights				Amperage																																							
Black West	Number of Lights				Amperage																																							
Red East	Number of Lights				Amperage				22																																			
Black East	Number of Lights				Amperage				17.16																																			
Spare	Number of Lights				Amperage								22																															
Red West - OP	Number of Lights				Amperage												7				8																							
Black West - OP	Number of Lights				Amperage																2.17				3.78																			
																									8				6															
																													2.48				3.78											
																																	0.78				0.42							
																																					0.93				0.93			
Total Amperage					13.26				14.82				17.16				17.16																				8.86				8.39			

CONTROLLER - SCHEDULE OF EQUIPMENT

ITEM	QUANTITY	DESCRIPTION
①	1	MAIN BREAKER, 2 POLE, 600V, 150A BASE, 150A NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 14000A AT 480V
②	2	CIRCUIT BREAKERS, 1 POLE, 240V, 15A
③	1	TIME CLOCK, 240V, 2 POLE, SINGLE THROW CLOCK WITH SPRING CARRYOVER & ASTRONOMICAL DIAL
④	1	CONTACTOR, 2 POLE, 240V, 150A
⑤	5-EXIST 2-PROP	CIRCUIT BREAKER, 1 POLE, 240V, 100A BOLT-ON TYPE, 50A NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 14000A AT 240V
⑥	1	HANDS-OFF-AUTO SWITCH, 240V, 15A
⑦	1	RELAY, DOUBLE POLE, DOUBLE THROW, 240V
⑧	1	WEATHER-PROOF INCANDESCENT LIGHTING FIXTURE WITH 60 WATT, 120V LAMP
⑨	1	DUPLEX RECEPTACLE, 15A G.F.I., 120V
⑩	1	DOOR OPERATED SWITCH TO TURN ON & OFF
⑪	1	1.0KVA, SINGLE PHASE ENCAPSULATED TRANSFORMER, 240x480/120x240 VOLT, 60HZ
⑫	1	FUSE AND HOLDER

FILE NAME = FAU 2775 (OAK PARK AVENUE)
FAP 0311 (OSDEN AVENUE) TO FAU 3734 (34TH STREET)
FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD))
06084 OAK PARK AVENUE ARTERIAL STREET LIGHTING

USER NAME =	DESIGNED - BAH	REVISED - BAH 7-11-11
PLOT SCALE =	DRAWN - BAH	REVISED - BAH 10-14-11
PLOT DATE =	CHECKED - JEF	REVISED -
	DATE - 5-31-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS - EXISTING CONTROLLER #6
W/ PROPOSED LIGHTING SYSTEM ON OAK PARK AVE.**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

Frank Novotny & Associates, Inc.
Civil Engineers
825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 857-8668 • Fax: (630) 857-0132
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928

F A U R T E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	16
CONTRACT NO. 63628			HPP-3465(002)	