

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	1
F.H.W.A. REG.		ILLINOIS	PROJECT HPP-3465(002)	

CONTRACT NO. 63628

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
FAU 2775 (OAK PARK AVENUE)
FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET)
FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD)
OAK PARK AVENUE ARTERIAL STREET LIGHTING

SECTION 05-00162-00-LS
PROJECT HPP-3465(002)
CITY OF BERWYN
COOK COUNTY
C-91-616-09
PROJECT LOCATION MAP



LOCATION OF SECTION INDICATED THUS: ■

- INDEX OF SHEETS**
- COVER SHEET, INDEX OF SHEETS, LOCATION MAP
 - GENERAL AND PROJECT CONSTRUCTION NOTES, SUMMARY OF QUANTITIES
 - PLAN: OAK PARK AVENUE (STREET LIGHTING) - FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET)
 - PLAN: OAK PARK AVENUE (STREET LIGHTING) - FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD)
 - WIRING DIAGRAMS
 - STREET LIGHTING CONSTRUCTION DETAILS

- INDEX OF DISTRICT 1 STANDARDS**
- TC-10 TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS, & DRIVEWAYS
 - TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
 - TC-18 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

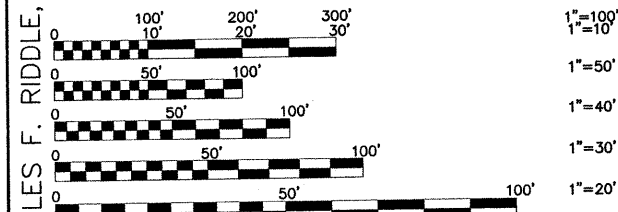
- HIGHWAY STANDARDS**
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
 - 424001-06 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
 - 424006 DIAGONAL CURB RAMPS FOR SIDEWALKS
 - 424011 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
 - 424021 DEPRESSED CORNER FOR SIDEWALKS
 - 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 - 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
 - 701501-06 URBAN LANE CLOSURE, 2 L, 2 W UNDIVIDED
 - 701801-05 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
 - 701901-02 TRAFFIC CONTROL DEVICES

TRAFFIC DATA

ADT:	EXISTING:	DESIGN DESIGNATION:
OAK PARK AVENUE - OGDEN AVENUE TO 34TH STREET	7,700 (2011)	COLLECTOR
OAK PARK AVENUE - 31ST STREET TO CERMAK ROAD	11,400 (2011)	

POSTED SPEED **DESIGN SPEED**

25 MPH-OAK PARK AVENUE (EXISTING)	25 MPH-OAK PARK AVENUE (PROPOSED)
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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
CALL 811

Know what's below.
Call before you dig.

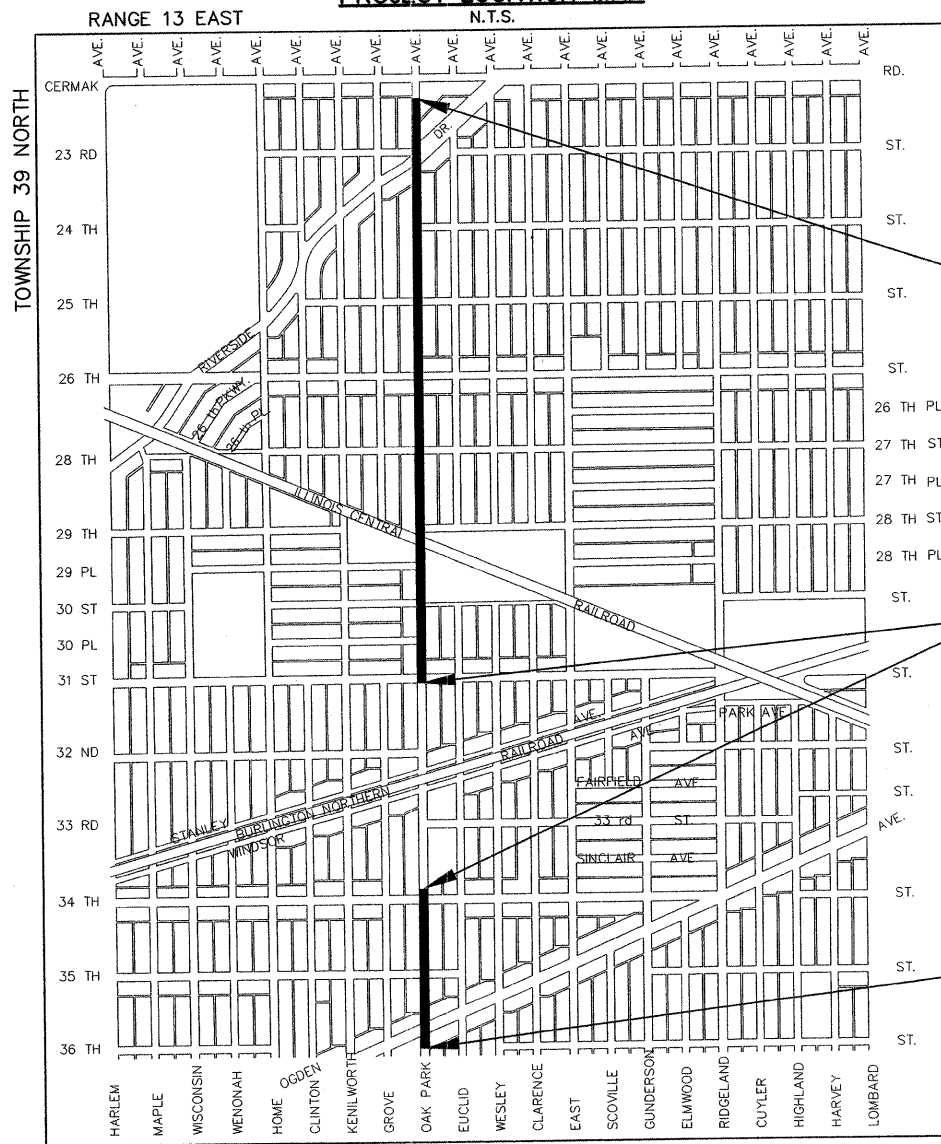
Frank Novotny & Associates, Inc.
825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
Civil Engineers/Municipal Consultants ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928

FNA PROJECT NO. 06084 DRAWN/DESIGNED BAH/BAH CHECKED/APPROVED JEF/JEF

REVISIONS

NO.	BY	DATE	DESCRIPTION
1	BAH	7/11/11	PER IDOT REVIEW COMMENTS DATED 7/1/11
2	BAH	10/11/11	PER IDOT REVIEW COMMENTS DATED 9/28/11

CONTRACT NO. 63628



PROJECT LOCATED IN THE CITY OF BERWYN ■ DENOTES LOCATION OF IMPROVEMENT IN BERWYN TOWNSHIP

LENGTH OF PROJECT
GROSS LENGTH OF PROJECT 7,348 FEET (1.39 MILES)
NET LENGTH OF PROJECT 6,583 FEET (1.25 MILES)

OAK PARK AVENUE
PROJECT BEGINS
AT STA. 72+70

OAK PARK AVENUE
PROJECT OMISSION
STA. 13+08 TO
STA. 20+73

OAK PARK AVENUE
PROJECT BEGINS
AT STA. 0+23

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED Oct. 14 20 11

CITY MAYOR Robert J. Lovero
ROBERT J. LOVERO, MAYOR

PASSED NOVEMBER 1 20 11

RELEASING FOR BID
BASED ON LIMITED
REVIEW NOVEMBER 2 20 11

DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER
Diane M. O'Keefe

CIVIL ENGINEER: SHEETS 1-14 AND 18-25

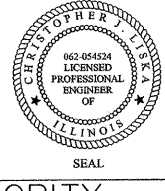
John E. Fitzgerald
JOHN E. FITZGERALD, P.E.
IL. P.E. NO. 062-048559
EXPIRES 11-30-2011



10/17/11
DATE

ELECTRICAL ENGINEER: SHEETS 15-17

Christopher J. Liska
CHRISTOPHER J. LISKA, P.E.
IL. P.E. NO. 062-054524
EXPIRES 11-30-2011



10/17/11
DATE

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL CONSTRUCTION NOTES ROADWAY AND AREA LIGHTING

SPECIFICATIONS

THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE "NATIONAL ELECTRIC CODE" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT.

CARE IN EXCAVATION

CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT EARTH AND/OR TRENCHING OPERATIONS SO THAT LOCAL UTILITY SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ANY DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 105.07 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

EXCAVATED MATERIALS

THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SURPLUS TRENCH SPOIL MATERIALS OFF THE SITE AS WORK PROGRESSES. THE TEMPORARY STOCKPILING OF THIS MATERIAL ON THE PROJECT SITE WILL NOT BE ALLOWED.

NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIALS OF THE PUBLIC WORKS DEPARTMENT OF THE LOCAL MUNICIPALITY, J.U.L.I.E. AT 1-800-892-0123 OR 811, AND OTHER PUBLIC AND PRIVATE UTILITIES SO THAT ARRANGEMENTS CAN BE MADE TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AS WELL AS TO PROVIDE ADEQUATE PROTECTION AND INSPECTION THERETO. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

PROTECTION OF SIGNS AND PROPERTY

ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

SUPERINTENDENCE

SPECIAL ATTENTION IS DRAWN TO ARTICLE 105.06 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WHICH REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE AGENT OF THE GENERAL CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

SCHEDULE OF OPERATIONS

THE CONTRACTOR SHALL SUBMIT IN WRITING A "SCHEDULE OF OPERATIONS" SHOWING APPROXIMATE DATES FOR COMMENCING AND COMPLETING VARIOUS PHASES OF CONSTRUCTION INCLUDED IN THE CONTRACT. PRIOR TO COMMENCING ANY CONSTRUCTION UNDER THIS CONTRACT, THE SCHEDULE SHALL HAVE THE APPROVAL OF THE ENGINEER AND THE DATE FOR STARTING SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE ENGINEER.

SAWING EXISTING IMPROVEMENTS

ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ABOUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED, SHALL BE SAWED AS DIRECTED PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR THE REMOVAL OF EACH ITEM, AND REPLACEMENT WILL BE PAID FOR UNDER THE RESPECTIVE ITEMS IN THE CONTRACT UNLESS OTHERWISE INDICATED. SAW CUTTING FOR PATCHES WILL BE INCLUDED IN THE COST OF TO THE PATCHING ITEM. EXISTING DRIVEWAY PAVEMENT AND SIDEWALK TO REMAIN IN PLACE SHALL BE SAWCUT TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND THE EXISTING, AND SUCH COST SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

TREES AND BRANCHES

WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF CONSTRUCTION, SAID BRANCHES SHALL BE TRIMMED AND SEALED IN ACCORDANCE WITH SECTION 253.09 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND THE COST OF SAME SHALL BE INCLUDED IN THE COST OF THE CONTRACT. IF TREES OR SHRUBS MUST BE REMOVED, THEY WILL BE PAID FOR IN ACCORDANCE WITH THE SPECIFICATIONS.

ENGINEER ADJUSTMENTS

THE ENGINEER RESERVES THE RIGHT TO ADJUST THE LOCATIONS OF LIGHT POLES, CONDUIT PUSHES, TRENCH LINES, AND OTHER APPURTENANCES TO NEW LOCATIONS DEPENDING UPON THE LOCATION OF OTHER FACILITIES THAT MAY CONFLICT WITH THE NEW LIGHTING SYSTEM.

PROJECT SAFETY

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.

THE CONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS. THE CONTRACTOR, ENGINEER, AND OWNER SHALL EACH BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE DOCUMENTS AND SPECIFICATIONS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

PROJECT CONSTRUCTION NOTES

- 1) THE EXISTING LIGHTS ARE TO BE REMOVED, NO SALVAGE, UPON COMPLETION OF THE PROJECT.
- 2) ALL TRENCHING FOR PLACEMENT OF CABLE OF CONDUIT SHALL BE AS DIRECTED BY THE ENGINEER, AND SHALL BE PLACED AT A MINIMUM OF THIRTY (30) INCHES BELOW GRADE.
- 3) POLE LOCATIONS SHALL BE SETBACK 4.5' FROM THE BACK OF CURB TO THE FACE OF THE POLE, AND TWO (2) INCHES ABOVE THE NATURAL GRADE OF THE GROUND AT THE LOCATION OF THE FOUNDATION, UNLESS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 4) ALL PROPOSED POLES WILL BE CONNECTED TO NEW BREAKERS ON EXISTING CONTROLLERS IN THE CITY OF BERWYN.
- 5) THE CONTRACTOR SHALL REMOVE ALL WEED GROWTH IN THE TOPSOIL AREAS AND DISTURBED PARKWAY AREAS PRIOR TO PLACEMENT OF SOD. ANY GROWTH OVER EIGHT INCHES (8") IN HEIGHT MUST BE TEMPORARILY MOWED PRIOR TO REMOVAL.
- 6) THE ENGINEER SHALL APPROVE THE TIME OF EACH OF THE SEVEN (7) OR TWENTY (20) FREE WATERINGS THAT ARE INCLUDED IN THE SOD PLACEMENT ITEM. WATERINGS SHALL NOT BE "BACK-TO-BACK", UNLESS SOD SHOWS SEVERE LEVELS OF STRESS.
- 7) TRAFFIC CONTROL PROVISIONS OF SECTION 700, 701 AND 702 WILL BE STRICTLY ENFORCED. THE CONTRACTOR SHALL BE ALERT TO POST ALL NECESSARY SIGNAGE, HAVE FLAGGERS AT LOCATIONS OF RESTRICTED LANE OPERATIONS, AND TAKE DOWN THE SIGNAGE WHEN THE WORK IS COMPLETED.
- 8) FOR PURPOSES OF WATER SOD OR SUPPLEMENTAL WATERING, THE CITY OF BERWYN WILL FURNISH THE WATER AT NO COST, BUT THE CONTRACTOR MUST USE A WATER TRUCK FOR PLACEMENT OF WATER AND FILL UP AT THE PUBLIC WORKS YARD ON NEW AVE. WATERING DIRECTLY FROM A HYDRANT WILL NOT BE ALLOWED. THE CONTRACTOR MAY NOT OPEN ANY VALVES.
- 9) THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR WITH THE UTILITY COMPANY.
- 10) SAW CUTTING AND REPLACEMENT OF CONCRETE SIDEWALKS WHERE DIRECTED BY THE ENGINEER SHALL BE PAID FOR UNDER THE ITEM "P.C. CONCRETE SIDEWALK" AND "SIDEWALK REMOVAL".

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS
PATCHING PAVEMENT REMOVAL AND REPLACEMENT (HMA SURFACE, MIX D, N50, 1 1/2" IL-9.5mm) (LEVELING BINDER (HAND METHOD), N50, 1 1/2" IL-9.5mm)	PG 64-22	4% @ 50 GYR

THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

FILE NAME = FAU 2775 (OAK PARK AVENUE) FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET) FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD) OAK PARK AVENUE ARTERIAL STREET LIGHTING	USER NAME = PLOT SCALE = PLOT DATE =	DESIGNED -- BAH DRAWN -- BAH CHECKED -- JEF DATE -- 5-31-11	REVISED -- BAH 7-11-11 REVISED -- BAH 10-14-11 REVISED -- REVISED --
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL AND PROJECT CONSTRUCTION NOTES STANDARD SYMBOLS

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

OTHER SYMBOLS (FOR USE ON PLAN SHEETS)

⚡	PROPOSED UNDERPASS LUMINAIRE, RED CIRCUIT
⚡	PROPOSED UNDERPASS LUMINAIRE, BLACK CIRCUIT
⦿	PROPOSED LIGHTING UNIT, OVERHEAD = RED CIRCUIT, ORNAMENTAL = BLACK CIRCUIT
⦿	PROPOSED LIGHTING UNIT, OVERHEAD = BLACK CIRCUIT, ORNAMENTAL = RED CIRCUIT
(RE)	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE
(M)	MODIFY EXISTING COMBINATION POLE
(P)	PARKING LANE
←	TRAVEL LANE
↩	LEFT-TURN LANE
—W-6"	WATER MAIN
—G-6"	GAS MAIN
COMB. 15"	COMBINED SEWER
---	EXISTING ELECTRICAL
----	PROPOSED ELECTRICAL

PROPOSED LUMINAIRE LEGEND (FOR USE ON PLAN SHEETS)

- (A) LP = 33' MH, 6' MA, LUMINAIRE = 100W, HPS, MC III, 240V (PHASE TO NEUTRAL) W/ 1 MID-MOUNT ORNAMENTAL AT 16.5' MH, LUMINAIRE = 50W, HPS, MC III, 240V (PHASE TO NEUTRAL)
- (B) LP = 33' MH, 6' MA, LUMINAIRE = 150W, HPS, MC III, 240V (PHASE TO NEUTRAL) W/ 1 MID-MOUNT ORNAMENTAL AT 16.5' MH, LUMINAIRE = 50W, HPS, MC III, 240V (PHASE TO NEUTRAL)
- (C) LP = 33' MH, 6' MA, LUMINAIRE = 250W, HPS, MC III, 240V (PHASE TO NEUTRAL) W/ 1 MID-MOUNT ORNAMENTAL AT 16.5' MH, LUMINAIRE = 50W, HPS, MC III, 240V (PHASE TO NEUTRAL)
- (D) UNDERPASS LUMINAIRE = 10' MH, WALL MOUNTED = 50W, HPS, MC IV, 240V (PHASE TO NEUTRAL)
- (E) UNDERPASS LUMINAIRE = 11' MH, WALL MOUNTED = 70W, HPS, MC IV, 240V (PHASE TO NEUTRAL)

EXISTING LUMINAIRE LEGEND (FOR USE ON PLAN SHEETS)

- (1) LP = 16'6" MH, NO MA, LUMINAIRE = 150W, HPS, MC III, 240V
- (2) LP = 16'6" MH, NO MA, LUMINAIRE = 150W, HPS, MC V, 240V
- (6) LP = 33' MH, 10' MA, LUMINAIRE = 250W, HPS, MC III, 240V
- (7) LP = 34' MH, 6' MA, LUMINAIRE = 400W, HPS, MC II, 240V
- (8) LP = 33' MH, 6' MA, LUMINAIRE = 250W, HPS, MC III, 240V
- (8a) LP = 15' MH, 1' MA, LUMINAIRE = 50W, HPS, MC V, 240V (ORNAMENTAL)

PROPOSED CABLE LEGEND (FOR USE ON PLAN SHEETS)

UNLESS NOTED 75' 2" DIA. G.S. P.	UNIT DUCT, 600V, 3-1/C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1-1/4" DIA. POLYETHYLENE UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 2 GROUND, (XLP-TYPE USE), 1-1/2" DIA. POLYETHYLENE PROPOSED CONDUIT PUSHED, LENGTH & DIAMETER AS LISTED
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 805 Midway Drive • Willowbrook, IL • 60307 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000228

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	2
CONTRACT NO. 63628				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		HPP-3465(002)

SUMMARY OF QUANTITIES

Specialty Item	Special Provision	Item No	Description	Unit	Construction Code 0021 Quantity	CONTROLLER #2 28TH STREET TO CERMAK ROAD	CONTROLLER #6 31ST STREET TO 28TH STREET	CONTROLLER #7 OGDEN AVENUE TO 34TH STREET	PROJECT	Specialty Item	Special Provision	Item No	Description	Unit	Construction Code 0021 Quantity	CONTROLLER #2 28TH STREET TO CERMAK ROAD	CONTROLLER #6 31ST STREET TO 28TH STREET	CONTROLLER #7 OGDEN AVENUE TO 34TH STREET	PROJECT
		21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	1600				1600			81603078	UNIT DUCT, 600V, 3-1/C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1410	710	700		
		25000400	NITROGEN FERTILIZER NUTRIENT	FOUND	30				30			81702431	ELECTRIC CABLE IN CONDUIT, 600 V (XLP-TYPE USE), 3-1/C NO. 8, 1/C NO. 8 GROUND	FOOT	745		745		
		25000500	PHOSPHORUS FERTILIZER NUTRIENT	FOUND	30				30			SP 82102100	LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT, 100 WATT	EACH	63	41	12	10	
		25000600	POTASSIUM FERTILIZER NUTRIENT	FOUND	30				30			SP 82102150	LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT, 150 WATT	EACH	11	4	3	4	
		25200100	SODDING	SQ YD	1600				1600			SP 82102250	LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT, 250 WATT	EACH	8	6		2	
		25200200	SUPPLEMENTAL WATERING	UNIT	50				50			SP 82107090	UNDERPASS LUMINAIRE, 50 WATT, HIGH PRESSURE SODIUM VAPOR, WALL MOUNTED	EACH	6		6		
	X	42000300	PORTLAND CEMENT CONCRETE PAVEMENT, 8 INCH	SQ YD	20				20			SP 82107100	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR, WALL MOUNTED	EACH	2		2		
	X	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	20				20			84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	47	30	9	8	
	X	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1250				1250			88030014	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, WALL MOUNTED	EACH	2		2		
	X	42400800	DETECTABLE WARNINGS	SQ FT	32				32			SP X0323157	REMOVE LUMINAIRE FROM UNDERPASS	EACH	10		10		
	X	44000100	PAVEMENT REMOVAL	SQ YD	40				40			SP X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	121		121		
	X	44000600	SIDEWALK REMOVAL	SQ FT	1250				1250			SP X0327008	REMOVE AND RELOCATE SIGN (SPECIAL)	EACH	100			100	
		67100100	MOBILIZATION	L SUM	1				1			SP X0656300	PAVEMENT REMOVAL AND REPLACEMENT	SQ YD	40			40	
		70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1				1			SP X8190205	TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)	FOOT	200			200	
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1				1			SP X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	130			130	
	X	70102660	TRAFFIC CONTROL FOR SIDE ROADS AND INTERSECTIONS	L SUM	1				1			SP X8360365	LIGHT POLE FOUNDATION, METAL, 16" BOLT CIRCLE 8" x 7"	EACH	82	51	15	16	
		81028170	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1" DIA.	FOOT	275		175		100			SP X8950130	MODIFY EXISTING CONTROLLER	EACH	3	1	1	1	
		81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2020	885	520	515	100			SP X0003303	CONCRETE LIGHT POLE	EACH	82	51	15	16	
		81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	11225	7220	1885	2120				SP Z0000500	ADJUSTING EXISTING HANDHOLE	EACH	3		3		
		81028740	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	1150	580	570					SP Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	5			5	
		81100300	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	475		475					SP X1008600	LUMINAIRE, OCTAGONAL, SODIUM VAPOR, VERTICAL MOUNT, 50 WATT WITH ARM	EACH	82	51	15	16	
		81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"	EACH	8		8					SP X1008604	MODIFY EXISTING COMBINATION POLE	EACH	4	4			
		81603047	UNIT DUCT, 600V, 3-1/C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	13785	8580	2395	2810											

FILE NAME = FAU 2775 (OAK PARK AVENUE)
 FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET)
 FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD)
 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 --

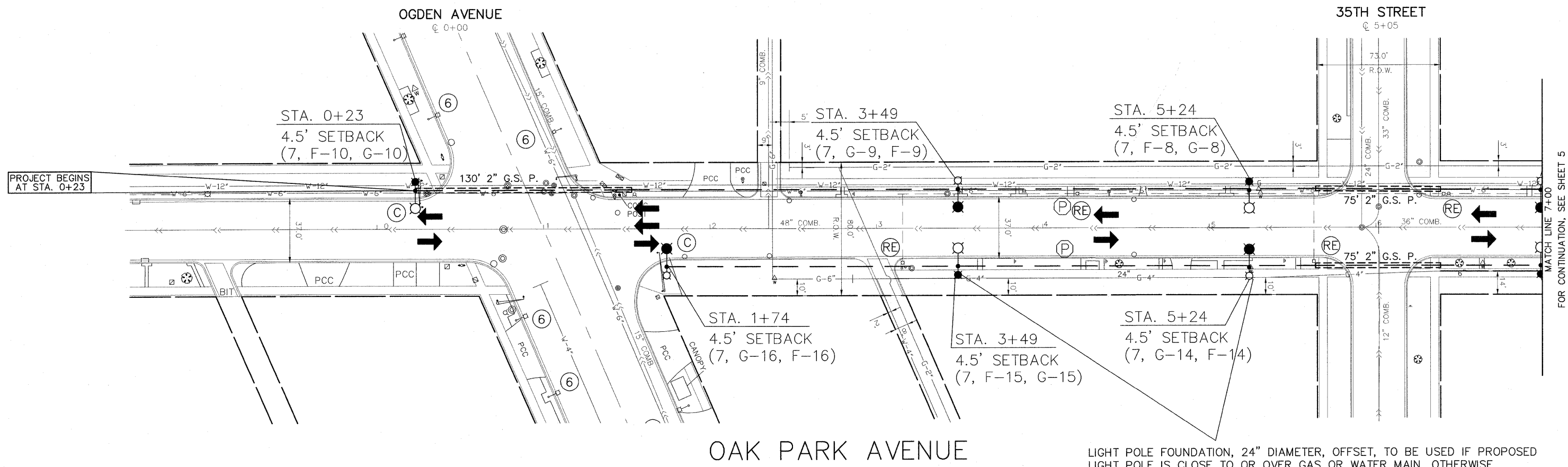
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

Frank Novotny & Associates, Inc.
 825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 857-8660 • Fax: (630) 887-0133
 Civil Engineers
 Municipal Consultants
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000228

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	3
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT HPP-3465(002)	
			CONTRACT NO. 63628	



LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET, TO BE USED IF PROPOSED LIGHT POLE IS CLOSE TO OR OVER GAS OR WATER MAIN. OTHERWISE LIGHT POLE FOUNDATION, METAL, 16" BOLT CIRCLE 8"x 7" WILL BE USED.

MATCH LINE 7+00 FOR CONTINUATION, SEE SHEET 5



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 Civil Engineers
 257 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 837-8640 • Fax: (630) 837-0132
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000028

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

USER NAME =
 PLOT SCALE =
 PLOT DATE =

DESIGNED — BAH	REVISED — BAH 7-11-11
DRAWN — BAH	REVISED — BAH 10-14-11
CHECKED — JEF	REVISED —
DATE — 5-31-11	REVISED —

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

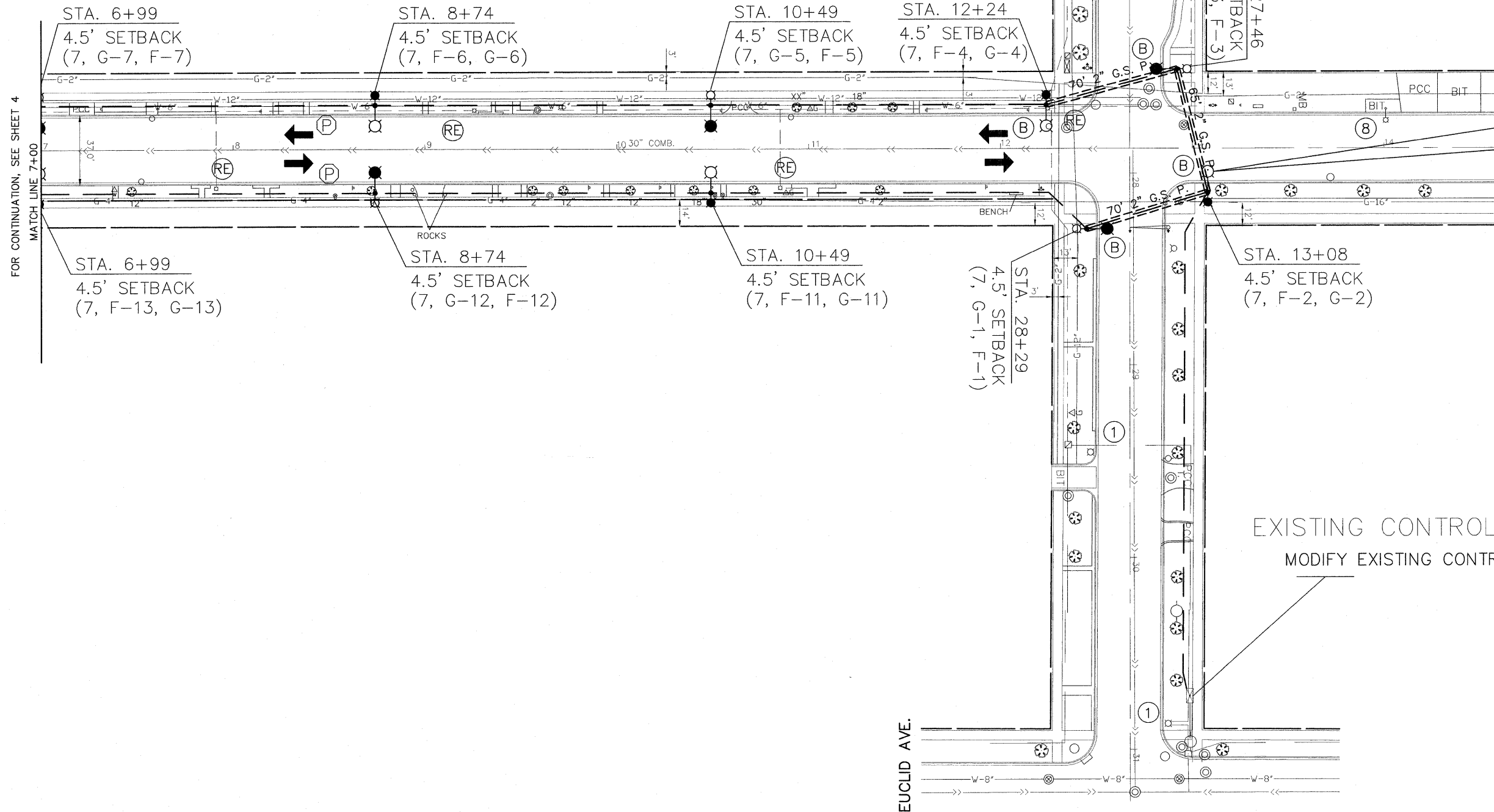
**PLAN: OAK PARK AVENUE
 STA. 0+23 TO 7+00**

SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	4
CONTRACT NO. 63628			HPP-3465(002)	

34TH STREET
C 11+70

OAK PARK AVENUE



FOR CONTINUATION, SEE SHEET 4
MATCH LINE 7+00

PROJECT OMISSION BEGINS AT STA. 13+08

EXISTING CONTROLLER #7
MODIFY EXISTING CONTROLLER



FILE NAME = FAU 2775 (OAK PARK AVENUE)
FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET)
FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD))
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 —

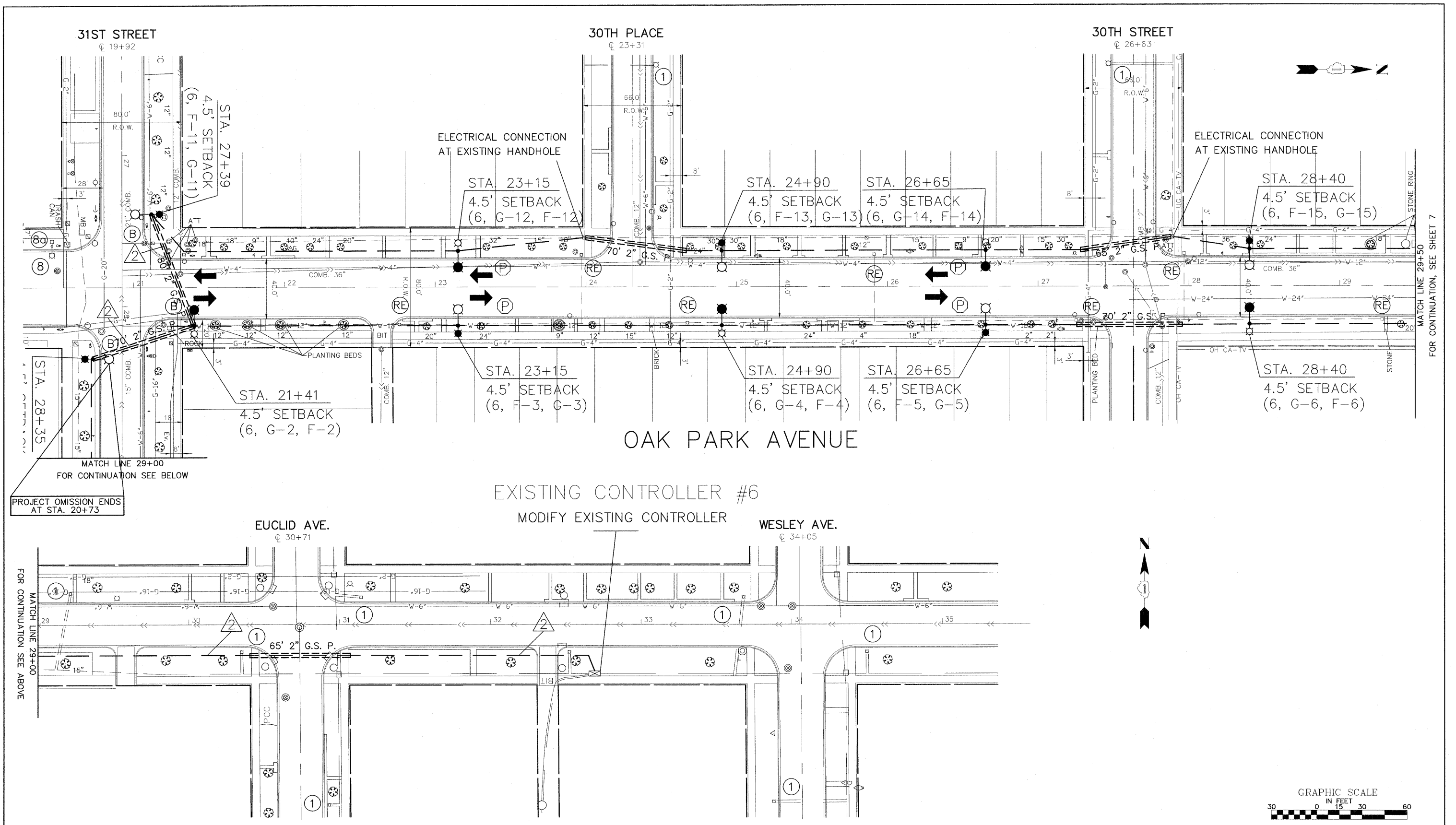
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN: OAK PARK AVENUE
STA. 7+00 TO 13+08

SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

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ILLINOIS PROFESSIONAL DESIGN FORM NO. 184-000028

F.A.U. 2775	SECTION 05-00162-00-LS	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63628 HPP-3465(002)	



PROJECT OMISSION ENDS AT STA. 20+73

FOR CONTINUATION SEE ABOVE

MATCH LINE 29+00 FOR CONTINUATION SEE BELOW

MATCH LINE 29+50 FOR CONTINUATION, SEE SHEET 7



FILE NAME = FAU 2775 (OAK PARK AVENUE)
 FAP 0311 (OGDEN 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**

**PLAN: OAK PARK AVENUE
 STA. 20+73 TO 29+50**

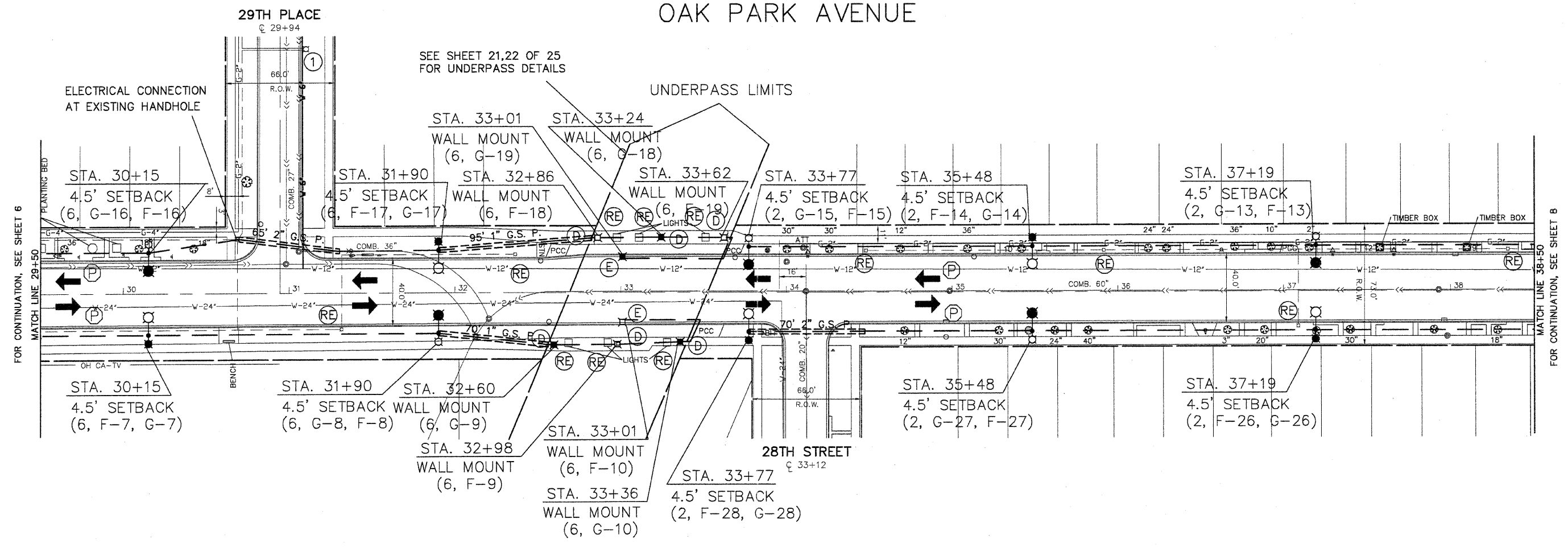
SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	6
CONTRACT NO. 63628			ILLINOIS FED. AID PROJECT HPP-3465(002)	

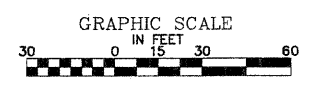


OAK PARK AVENUE



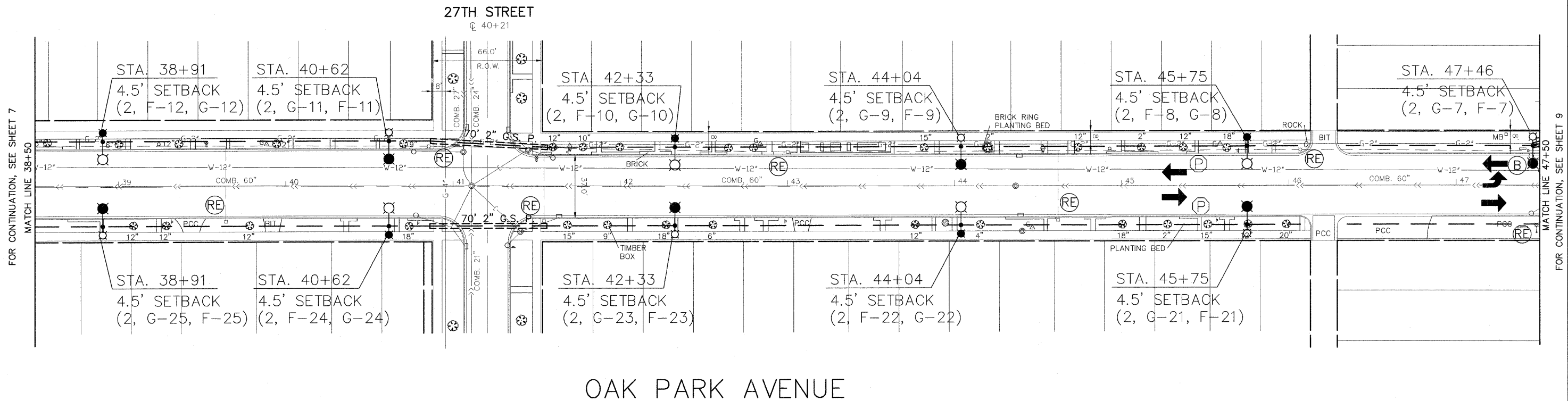
FOR CONTINUATION, SEE SHEET 6

FOR CONTINUATION, SEE SHEET 8



Frank Novotny & Associates, Inc.
 825 Midway Drive • Willowbrook, IL • 60110 • Telephone: (630) 817-8668 • Fax: (630) 817-0122
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 194-000628

FILE NAME = FAU 2775 (OAK PARK AVENUE) FAP 0311 (OSDEN AVENUE) TO FAU 3734 (34TH STREET) FAU 1488 (31ST STREET TO FAU 1453 (CERMAK ROAD)) 06084 OAK PARK AVENUE ARTERIAL STREET LIGHTING	USER NAME =	DESIGNED — BAH	REVISED — BAH 7-11-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN: OAK PARK AVENUE STA. 29+50 TO 38+50	F.A.U. SECTION COUNTY TOTAL SHEETS SHEET NO. 2775 05-00162-00-LS COOK 25 7
	PLOT SCALE =	CHECKED — JEF	REVISED — BAH 10-14-11			CONTRACT NO. 63628
PLOT DATE =	DATE — 5-31-11	REVISED —	REVISED —	SCALE: 1" = 30'	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HPP-3465(002)



FOR CONTINUATION, SEE SHEET 7
MATCH LINE 38+50

FOR CONTINUATION, SEE SHEET 9
MATCH LINE 47+50

OAK PARK AVENUE



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 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000026

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

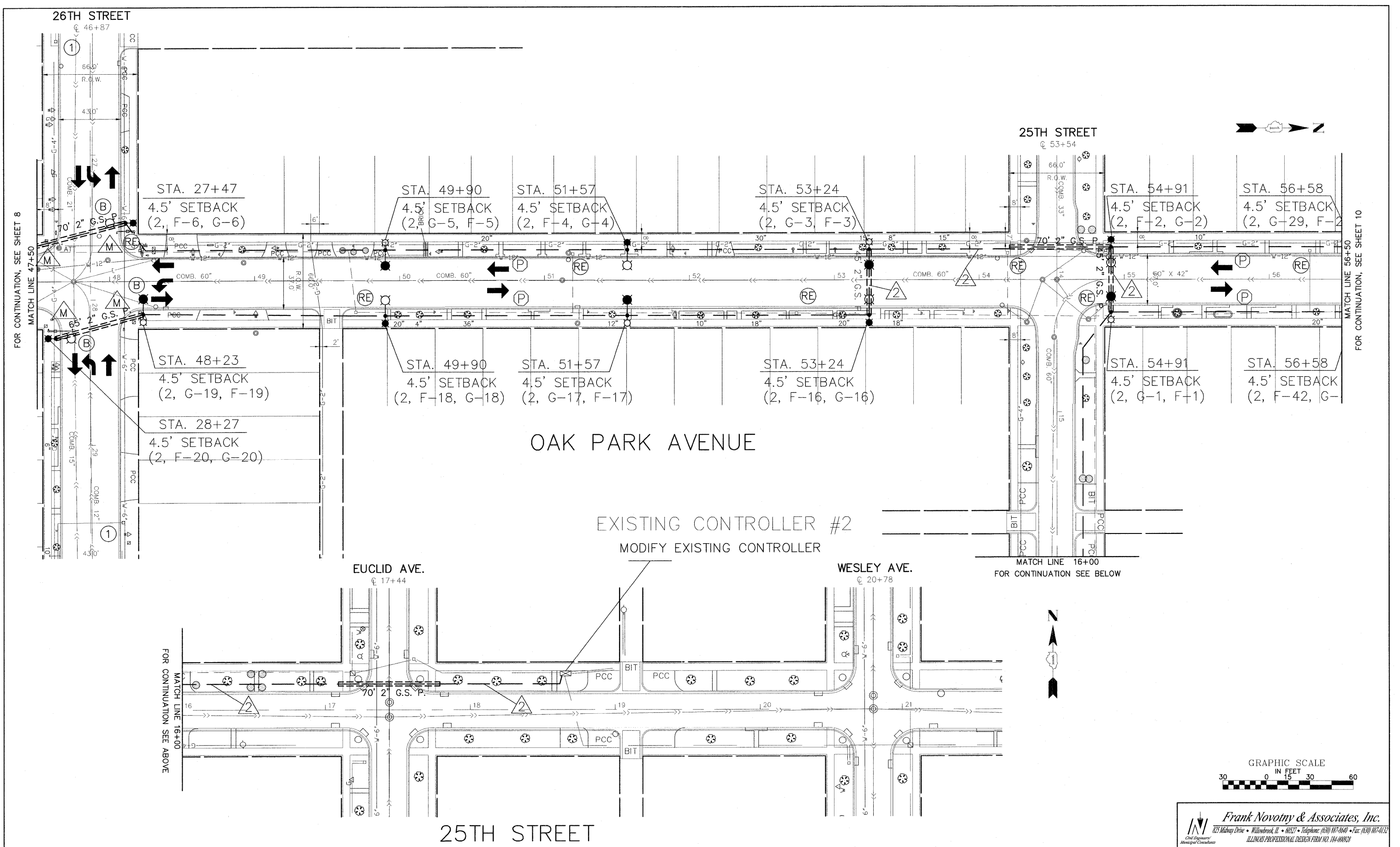
USER NAME =	DESIGNED — BAH	REVISED — BAH 7-11-11
PLOT SCALE =	DRAWN — BAH	REVISED — BAH 10-14-11
PLOT DATE =	CHECKED — JEF	REVISED —
	DATE — 5-31-11	REVISED —

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN: OAK PARK AVENUE
 STA. 38+50 TO 47+50**

SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	8
CONTRACT NO. 63628			HPP-3465(002)	



FILE NAME = FAU 2775 (OAK PARK AVENUE)
 FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET)
 FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD)
 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 -

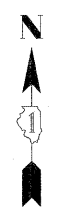
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN: OAK PARK AVENUE
 STA. 47+50 TO 56+50**

SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

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227 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 837-8640 • Fax: (630) 837-0132
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000028

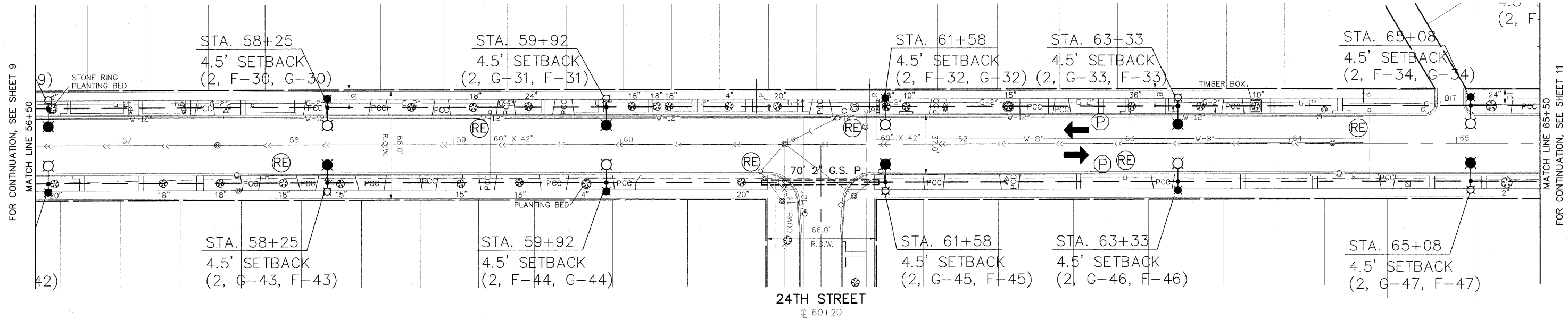
F.A.U. 2775	SECTION 05-00162-00-LS	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63628 HPP-3465(002)	



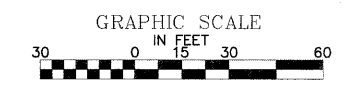
FOR CONTINUATION, SEE SHEET 8

FOR CONTINUATION, SEE SHEET 10

MATCH LINE 16+00 FOR CONTINUATION SEE BELOW



OAK PARK AVENUE



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 837 Midway Drive • Wheeling, IL • 60097 • Telephone: (630) 897-8640 • Fax: (630) 887-0132
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928

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

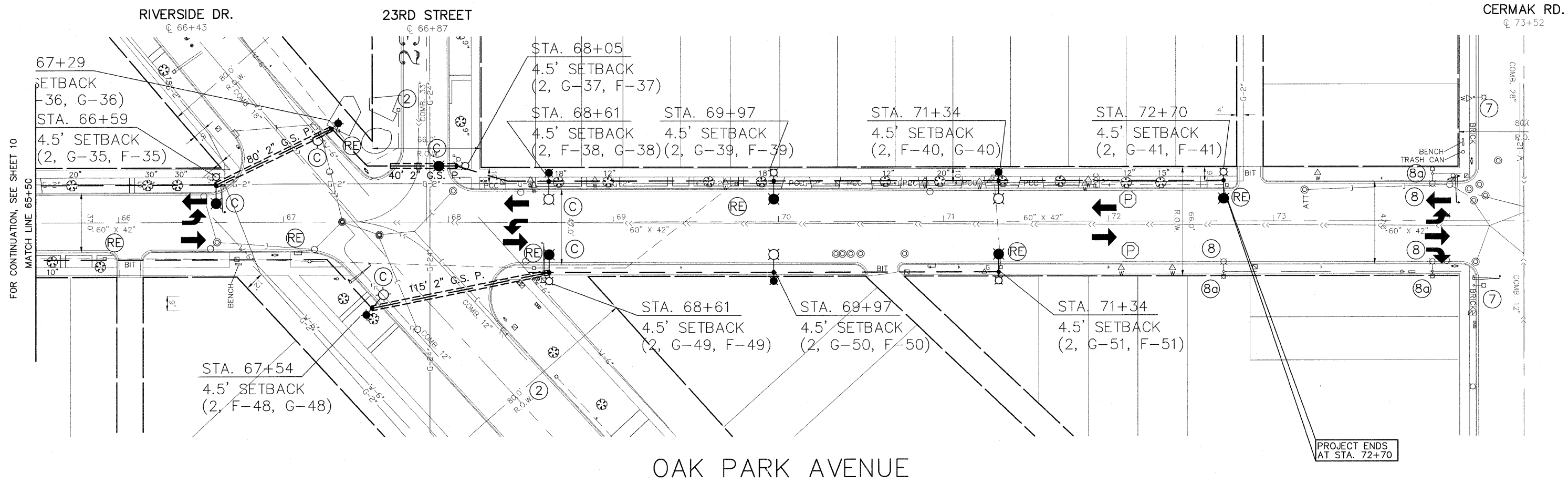
USER NAME =	DESIGNED -- BAH	REVISED -- BAH 7-11-11
PLOT SCALE =	DRAWN -- BAH	REVISED -- BAH 10-14-11
PLOT DATE =	CHECKED -- JEF	REVISED --
	DATE -- 5-31-11	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN: OAK PARK AVENUE
 STA. 56+50 TO 65+50**

SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. FTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	10
CONTRACT NO. 63628			HPP-3465(002)	



FOR CONTINUATION, SEE SHEET 10
MATCH LINE 65+50

PROJECT ENDS
AT STA. 72+70



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Civil Engineers/Municipal Consultants
325 Midway Drive • Wilmette, IL • 60091 • Telephone: (630) 857-8640 • Fax: (630) 857-0132
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000020

FILE NAME = FAU 2775 (OAK PARK AVENUE) FAP 0311 (OGDEN 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 —

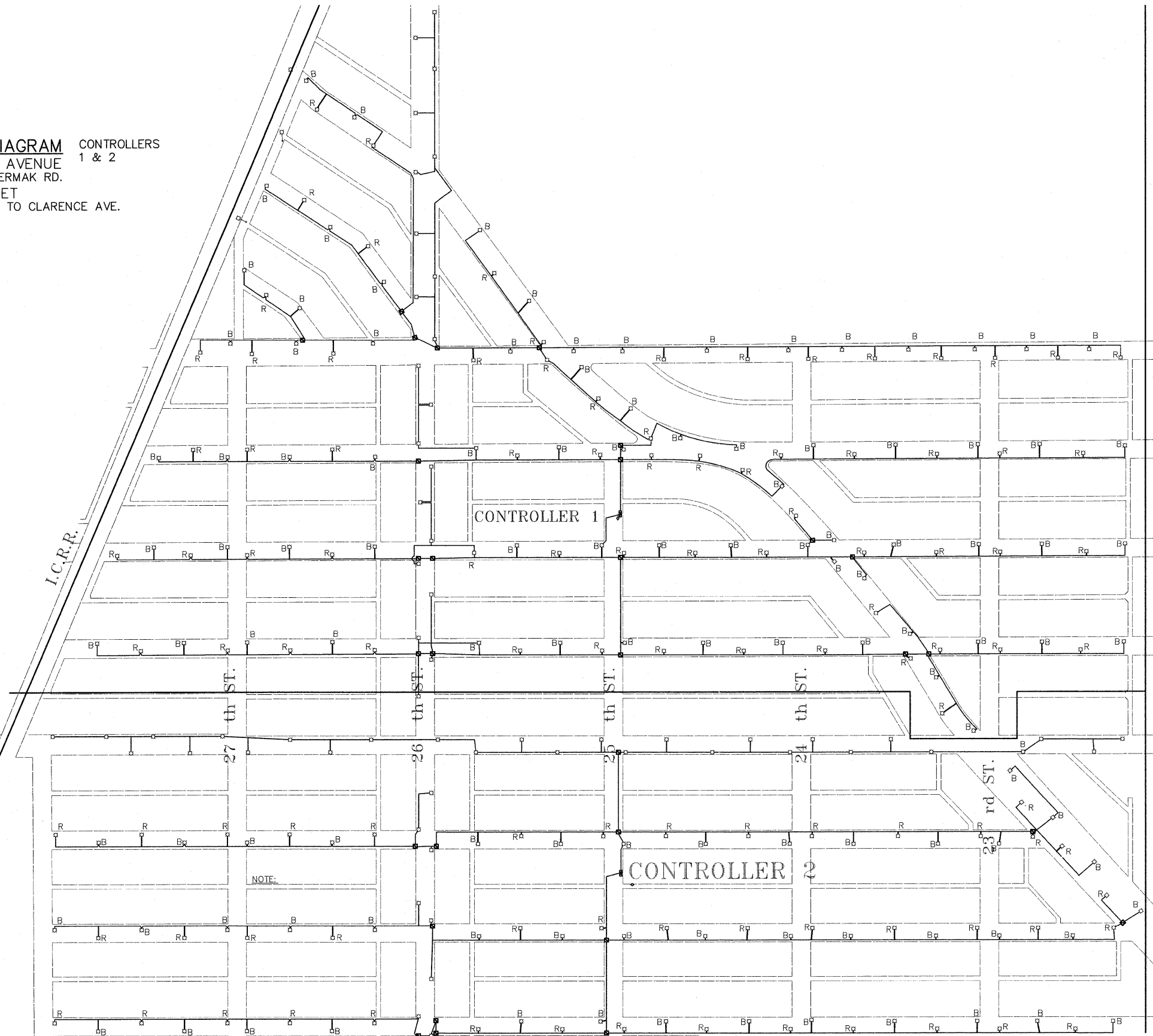
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN: OAK PARK AVENUE
STA. 65+50 TO 72+70**

SCALE: 1"=30' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	11
CONTRACT NO. 63628			ILLINOIS FED. AID PROJECT HPP-3465(002)	

WIRING DIAGRAM CONTROLLERS
 OAK PARK AVENUE 1 & 2
 I.C.R.R. TO CERMAK RD.
 26TH STREET
 HARLEM AVE. TO CLARENCE AVE.



MAPLE AVE.
 WISCONSIN AVE.
 WENONAH AVE.
 HOME AVE.
 CLINTON AVE.
 KENILWORTH AVE.
 GROVE AVE.
 OAK PARK AVE.
 EUCLID AVE.
 WESLEY AVE.
 CLARENCE AVE.

NOTE:



FILE NAME = FAU 2775 (OAK PARK AVENUE)
 FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET)
 FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD))
 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 —

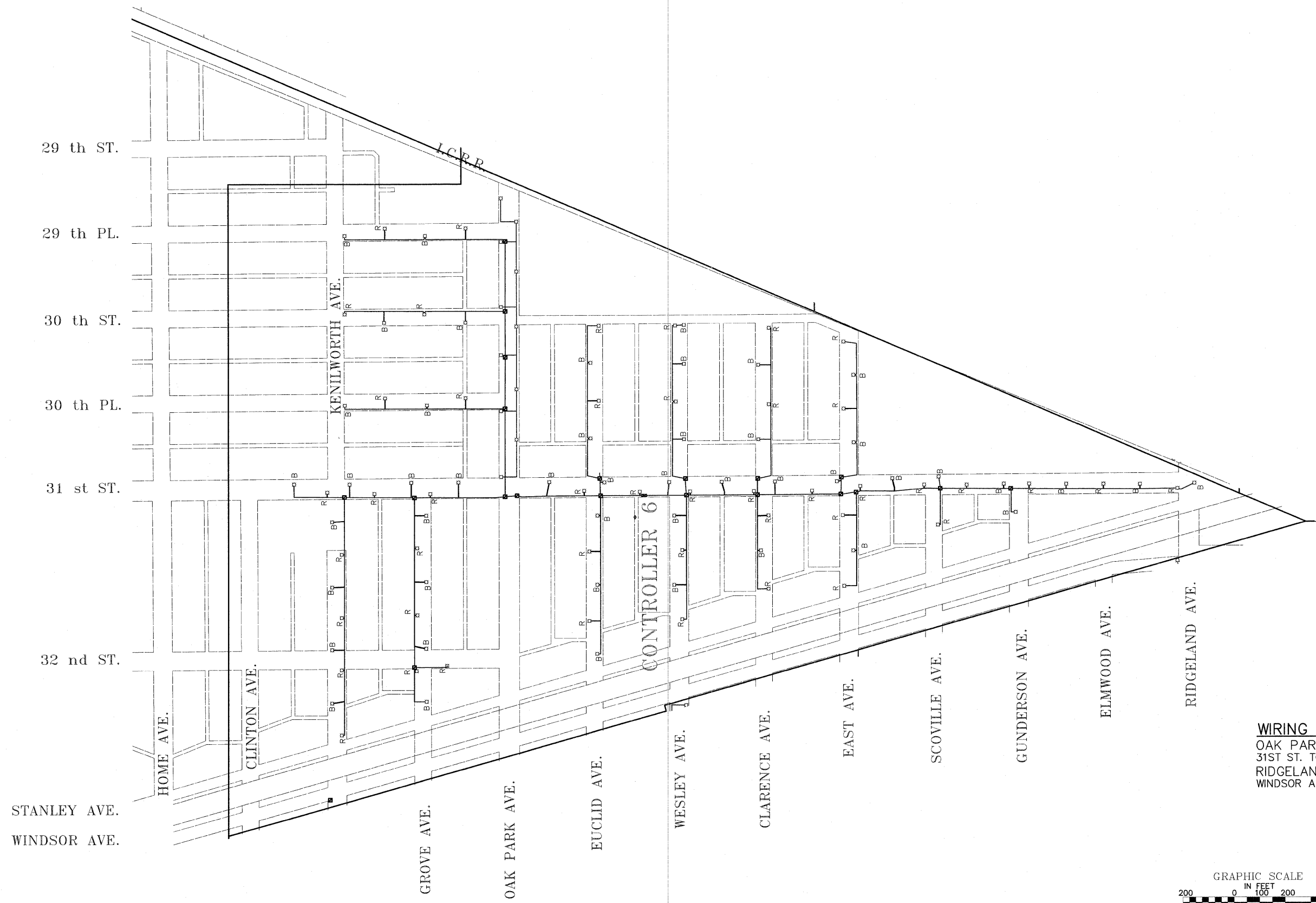
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER #2 EXISTING WIRING DIAGRAM

SCALE: 1"=200' SHEET NO. OF SHEETS STA. TO STA.

Frank Novotny & Associates, Inc.
 257 Midway Drive • Wheelbrook, IL • 60157 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
 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	12
CONTRACT NO. 63628			HPP-3465(002)	



WIRING DIAGRAM CONTROLLER 6
 OAK PARK AVENUE
 31ST ST. TO I.C.R.R.
 RIDGELAND AVENUE
 WINDSOR AVE. TO I.C.R.R.



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 Civil Engineers / Municipal Consultants
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 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000028

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

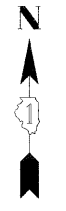
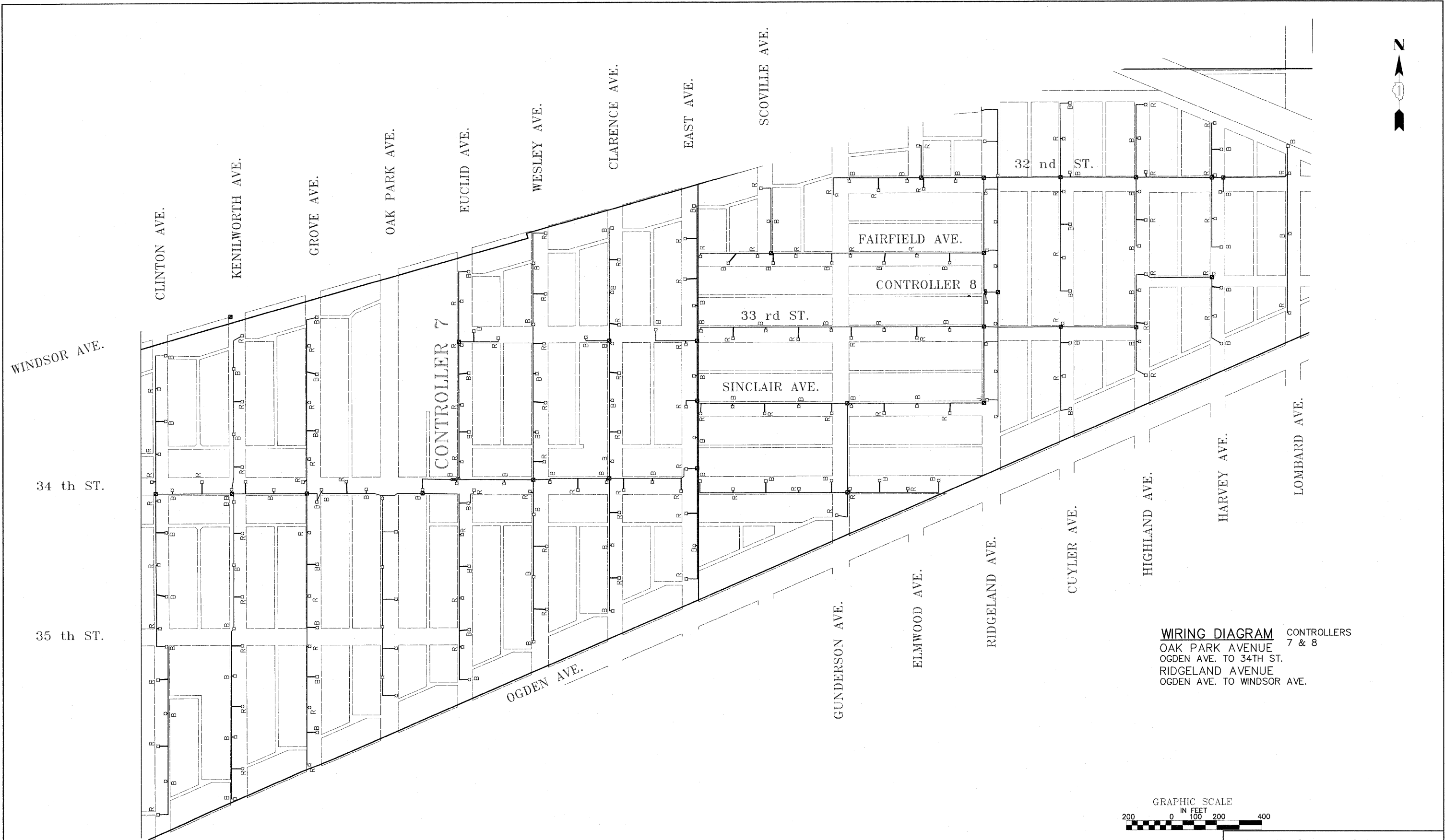
USER NAME =	DESIGNED — BAH	REVISED — BAH 7-11-11
PLOT SCALE =	DRAWN — BAH	REVISED — BAH 10-14-11
PLOT DATE =	CHECKED — JEF	REVISED —
	DATE — 5-31-11	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER #6 EXISTING WIRING DIAGRAM

SCALE: 1"=200' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	13
CONTRACT NO. 63628			ILLINOIS FED. AID PROJECT HPP-3465(002)	



WIRING DIAGRAM CONTROLLERS
OAK PARK AVENUE 7 & 8
OGDEN AVE. TO 34TH ST.
RIDGELAND AVENUE
OGDEN AVE. TO WINDSOR AVE.



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

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

CONTROLLER #7 EXISTING WIRING DIAGRAM

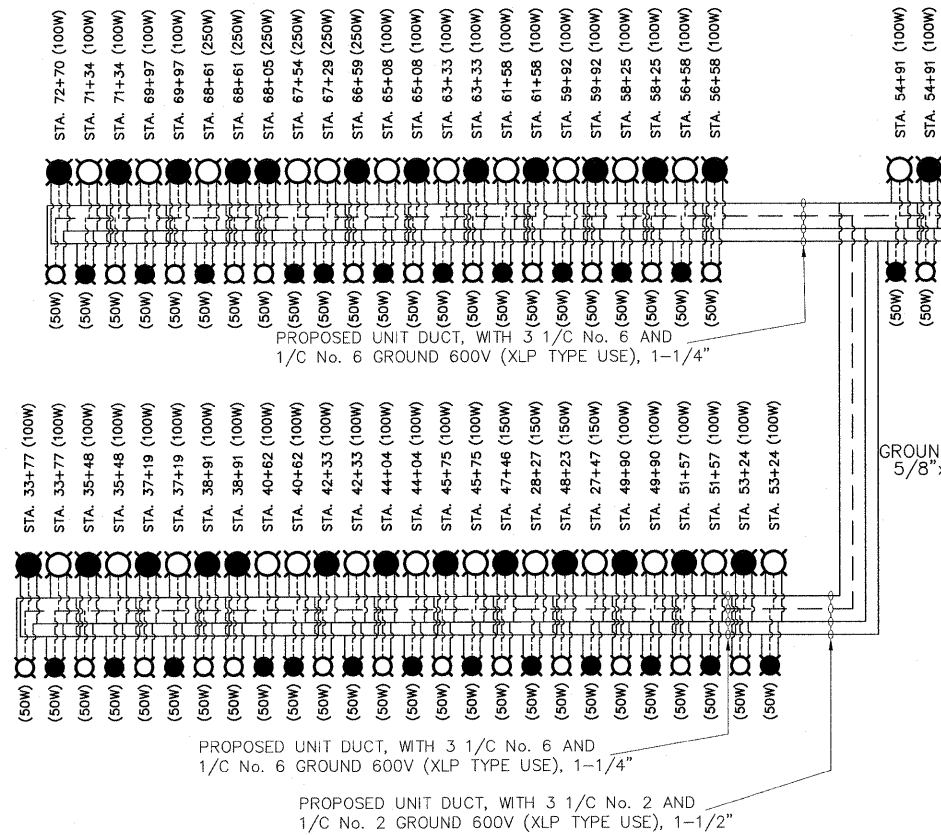
SCALE: 1"=200' SHEET NO. OF SHEETS STA. TO STA.

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Civil Engineers
Municipal Consultants
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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	14
CONTRACT NO. 63628			ILLINOIS FED. AID PROJECT HPP-3465(002)	

PROPOSED LIGHTING

**OAK PARK AVENUE
28TH STREET TO CERMAK ROAD**

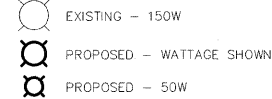


NOTE:
CONTROL WIRING IS NO.12
POWER WIRING IS NO.1/0

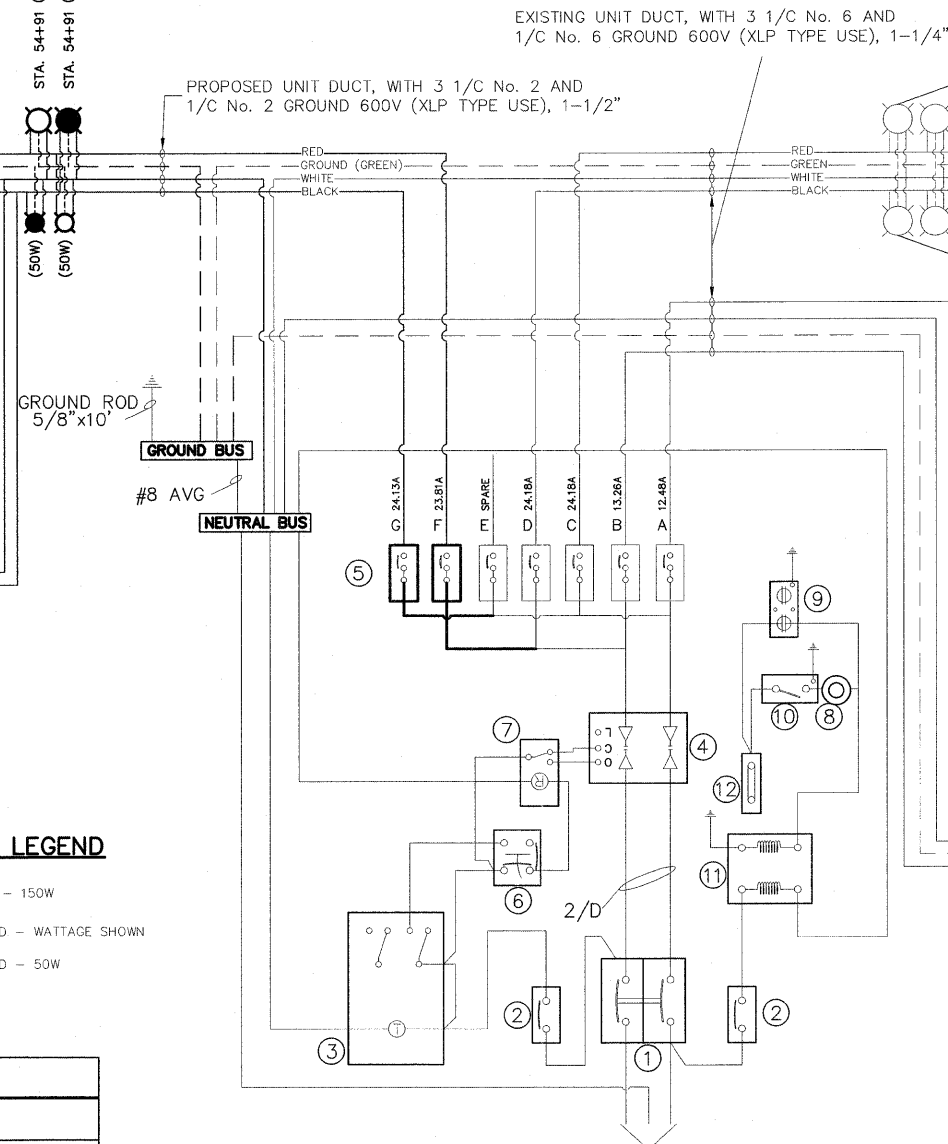
NOTE:
NEUTRAL BUS IS PAINTED WHITE.
GROUND BUS IS PAINTED GREEN.

NOTE:
CIRCUITS E IS SPARE

LUMINAIRE LEGEND



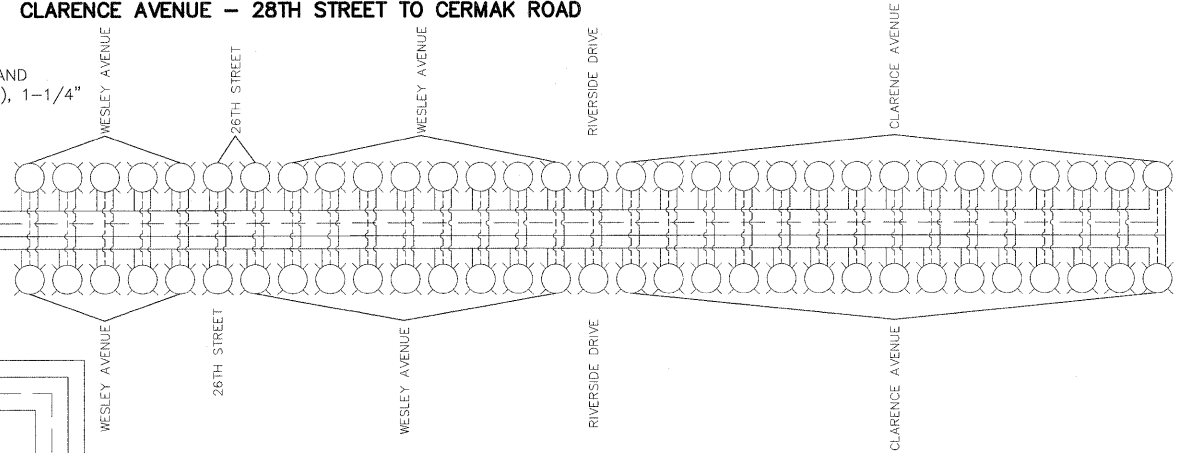
EXISTING CONTROLLER #2



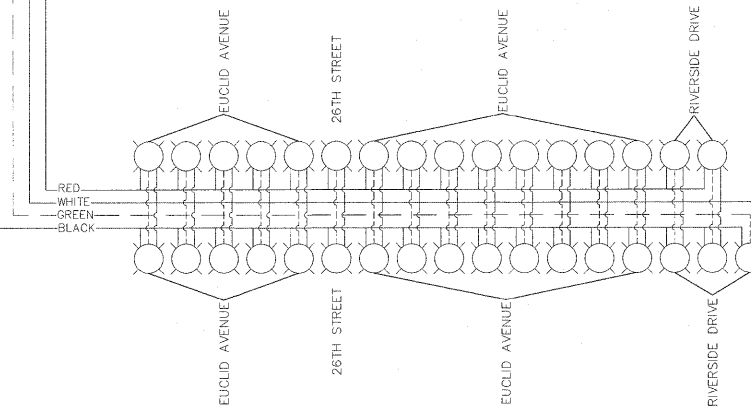
EXISTING SERVICE CABLE 3-1/C NO.1/0,
3 WIRE, 240/480 VOLT, 1 PHASE, 60HZ.

CONTROLLER DIAGRAM

EXISTING RESIDENTIAL STREET LIGHTING
26TH STREET - EUCLID AVENUE TO CLARENCE AVENUE
RIVERSIDE DRIVE - B/T EUCLID AVE & WESLEY AVE TO WESLEY AVENUE
WESLEY AVENUE - 28TH STREET TO RIVERSIDE DRIVE
CLARENCE AVENUE - 28TH STREET TO CERMAK ROAD



EXISTING RESIDENTIAL STREET LIGHTING
26TH STREET - OAK PARK AVENUE TO EUCLID AVENUE
RIVERSIDE DRIVE - OAK PARK AVENUE TO B/T EUCLID AVE & WESLEY AVE
EUCLID AVENUE - 28TH STREET TO RIVERSIDE DRIVE



CIRCUIT LOAD TABLE

Circuit	Controller #2 = 150A MAIN																											
	A				B				C				D				E				F				G			
Luminaire Wattage	50W	100W	150W	50W	100W	150W	50W	100W	150W	50W	100W	150W	50W	100W	150W	50W	100W	150W	250W	50W	100W	150W	250W					
Red West					16																							
Amperage					12.48																							
Black West					17																							
Amperage					13.26																							
Red East					31																							
Amperage					24.18																							
Black East					31																							
Amperage					24.18																							
Spare																												
Amperage																												
Red West - OP					26				20				2				3											
Amperage					8.1				12.6				1.6				3.8											
Black West - OP																												
Amperage																												
Total Amperage					12.48				13.26				24.18				24.18				25.99				26.31			

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 (60 A. AT CONT. NO.1 ONLY)
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 (OSGREN 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
		DRAWN - BAH	REVISED - BAH 10-14-11
		CHECKED - JEF	REVISED -
		DATE - 5-31-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS - EXISTING CONTROLLER #2
W/ PROPOSED LIGHTING SYSTEM ON OAK PARK AVE.**

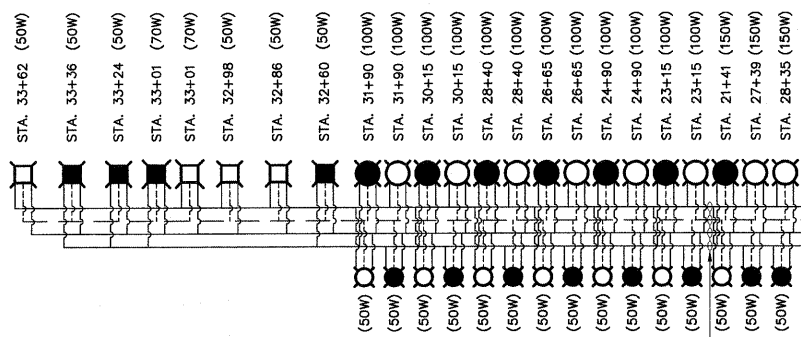
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

Frank Novotny & Associates, Inc.
Civil Engineers
325 Midway Drive • Wheelbrook, IL • 60157 • Telephone: (630) 837-8840 • Fax: (630) 837-0132
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928

F.A.U. RTL. 2775	SECTION 05-00162-00-LS	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 15
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 63628	
			HPP-3465(002)	

PROPOSED LIGHTING

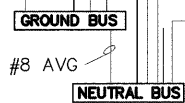
OAK PARK AVENUE
31ST STREET TO 28TH STREET



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'



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

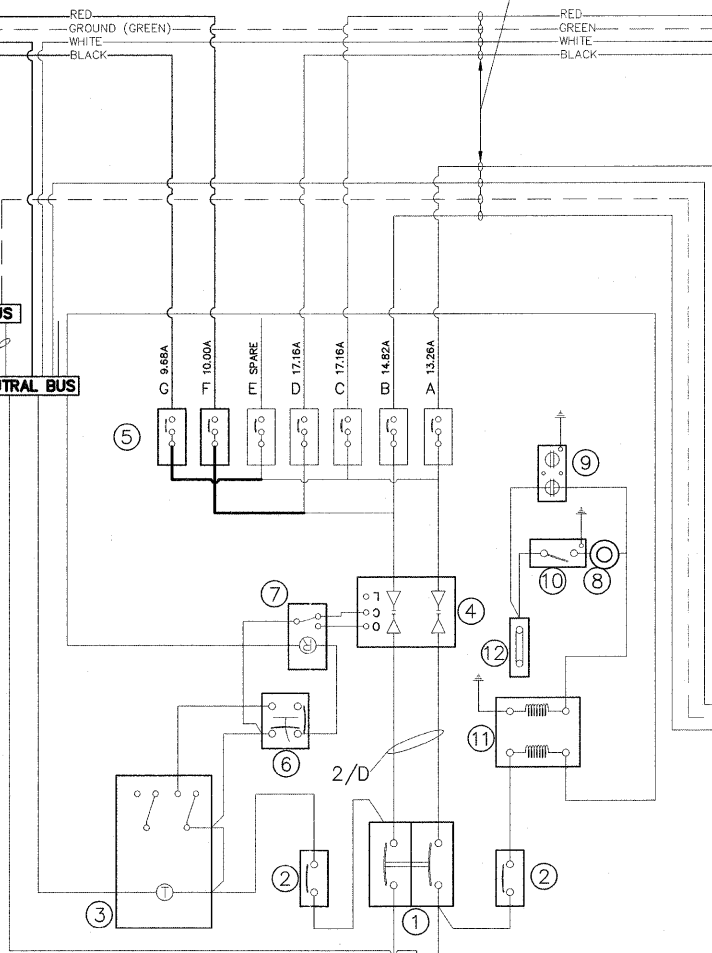
NOTE:
NEUTRAL BUS IS PAINTED WHITE.
GROUND BUS IS PAINTED GREEN.

NOTE:
CIRCUITS E IS SPARE

CONTROLLER DIAGRAM

EXISTING CONTROLLER #6

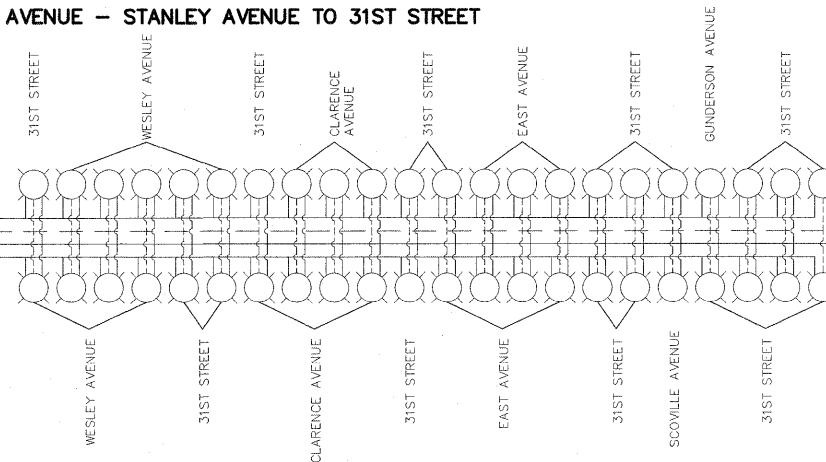
UNIT DUCT, WITH 3 1/C No. 6 AND 1/C No. 6
GROUND 600V (XLP TYPE USE), 1-1/4"



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

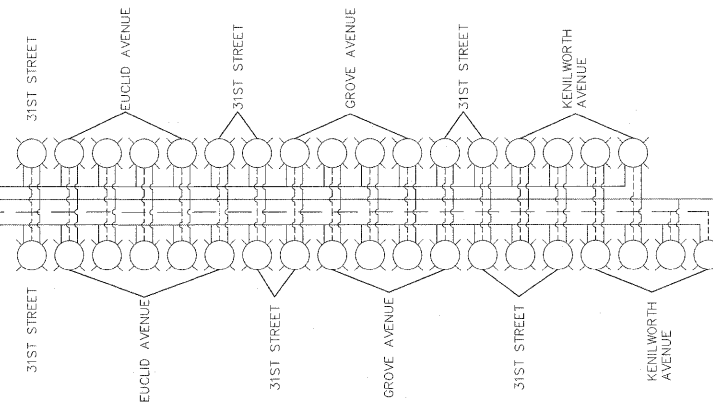
EXISTING RESIDENTIAL STREET LIGHTING

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																									
Black East	Number of Lights				Amperage																									
Spare	Number of Lights				Amperage																									
Red West - OP	Number of Lights				Amperage																									
Black West - OP	Number of Lights				Amperage																									
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)	USER NAME =	DESIGNED - BAH	REVISED - BAH 7-11-11
FAP 0311 (OSDEN AVENUE) TO FAU 3734 (34TH STREET)		DRAWN - BAH	REVISED - BAH 10-14-11
FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD))		CHECKED - JEF	REVISED -
06084 OAK PARK AVENUE ARTERIAL STREET LIGHTING		DATE - 5-31-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

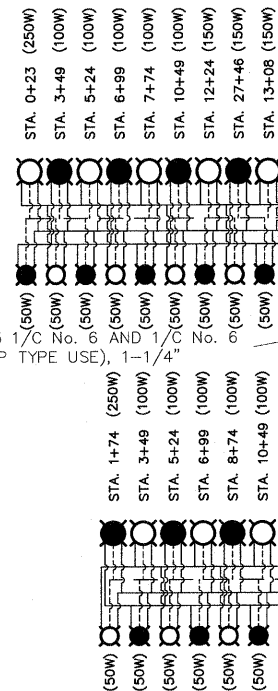
CONSTRUCTION DETAILS - EXISTING CONTROLLER #6
W/ PROPOSED LIGHTING SYSTEM ON OAK PARK AVE.

Frank Novotny & Associates, Inc.
Civil Engineers
Municipal Consultants
825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8668 • Fax: (630) 887-0132
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)	

PROPOSED LIGHTING

**OAK PARK AVENUE
OGDEN AVENUE TO 34TH 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. 6 AND 1/C No. 6
GROUND 600V (XLP TYPE USE), 1-1/4"

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

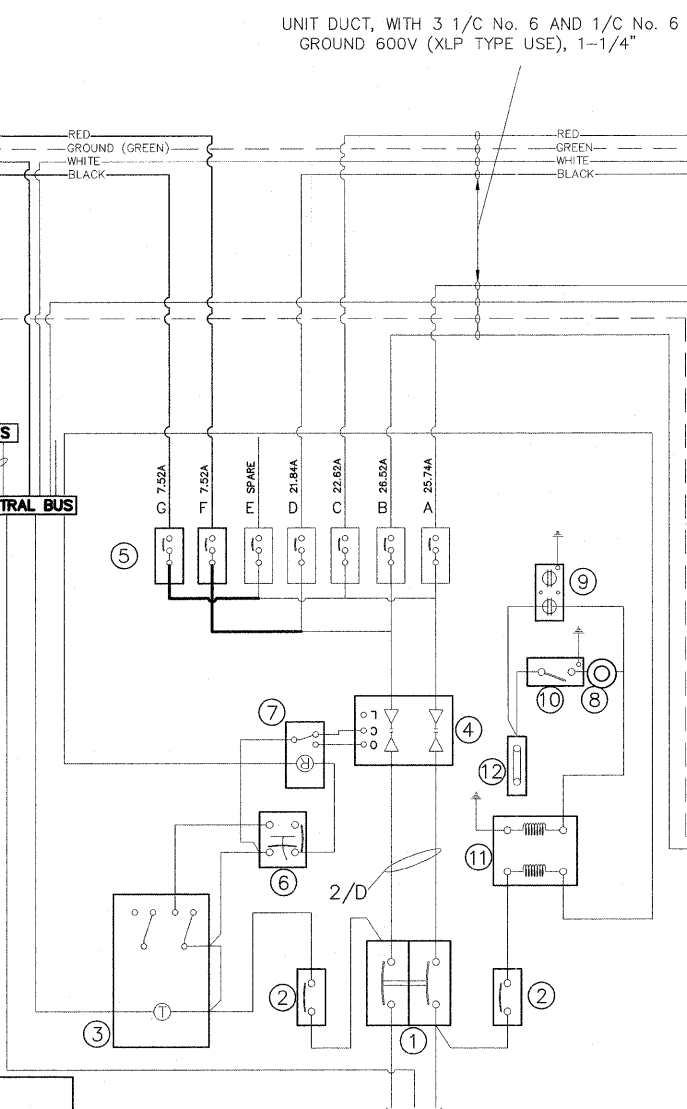
NOTE:
NEUTRAL BUS IS PAINTED WHITE.
GROUND BUS IS PAINTED GREEN.

NOTE:
CIRCUITS E IS SPARE

LUMINAIRE LEGEND

- EXISTING - 150W
- PROPOSED - WATTAGE SHOWN
- PROPOSED - 50W

EXISTING CONTROLLER #7

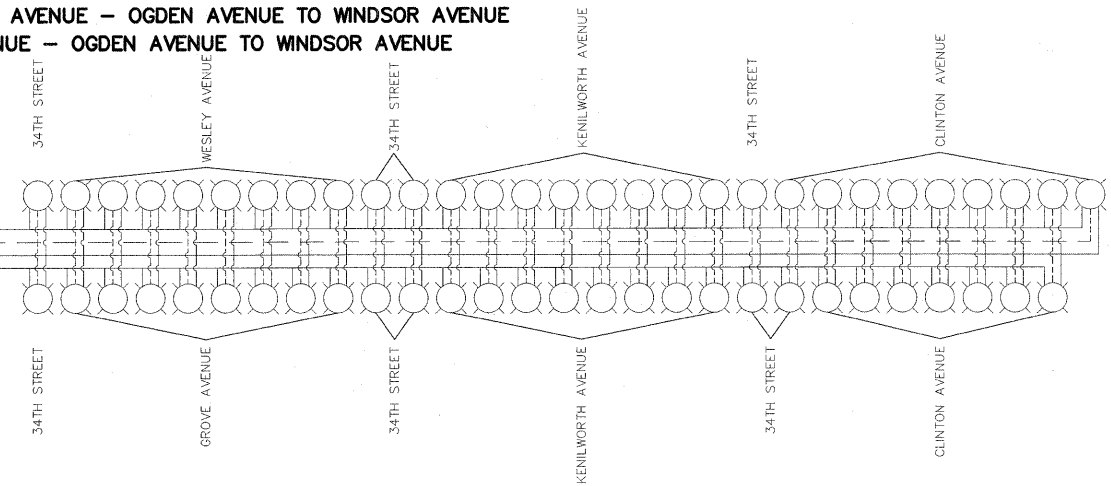


EXISTING SERVICE CABLE 3-1/C NO.1/0,
3 WIRE, 240/480 VOLT, 1 PHASE, 60HZ.

CONTROLLER DIAGRAM

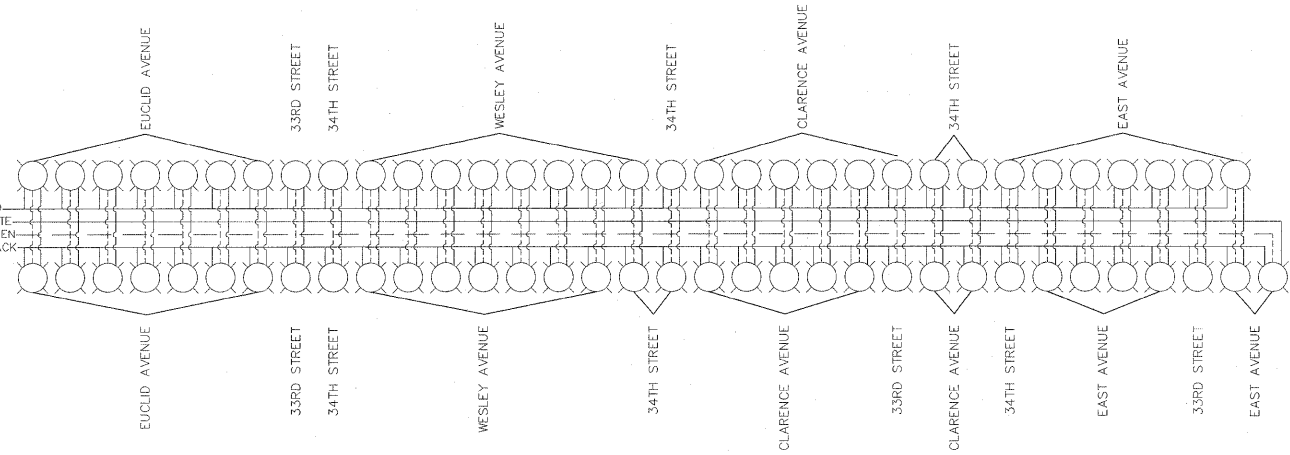
EXISTING RESIDENTIAL STREET LIGHTING

34TH STREET - CLINTON AVENUE TO EUCLID AVENUE
CLINTON AVENUE - OGDEN AVENUE TO WINDSOR AVENUE
KENILWORTH AVENUE - OGDEN AVENUE TO WINDSOR AVENUE
GROVE AVENUE - OGDEN AVENUE TO WINDSOR AVENUE



EXISTING RESIDENTIAL STREET LIGHTING

33RD STREET - EUCLID AVENUE TO EAST AVENUE
34TH STREET - EUCLID AVENUE TO EAST AVENUE
EUCLID AVENUE - OGDEN AVENUE TO WINDSOR AVENUE
WESLEY AVENUE - OGDEN AVENUE TO WINDSOR AVENUE
CLARENCE AVENUE - OGDEN AVENUE TO WINDSOR AVENUE
EAST AVENUE - OGDEN AVENUE TO WINDSOR AVENUE



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
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③	1	TIME CLOCK, 240V, 2 POLE, SINGLE THROW CLOCK WITH SPRING CARRYOVER & ASTRONOMICAL DIAL
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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

CIRCUIT LOAD TABLE

Circuit	Controller #7 = 150A MAIN																																											
	A				B				C				D				E				F				G																			
Luminaire Wattage	50W	100W	150W	50W	100W	150W	50W	100W	150W	50W	100W	150W	50W	100W	150W	50W	100W	150W	250W	50W	100W	150W	250W																					
Red East					33																																							
Amperage					25.74																																							
Black East									34																																			
Amperage									26.52																																			
Red West													29																															
Amperage													22.62																															
Black West																	28																											
Amperage																	21.84																											
Spare																																												
Red West - OP																					8				5				2				1											
Amperage																									2.5				3.2				1.6				1.3							
Black West - OP																													8				5				2				1			
Amperage																													2.5				3.2				1.6				1.3			
Total Amperage					25.74				26.52				22.62				21.84																8.46				8.46							

FILE NAME = FAU 2775 (OAK PARK AVENUE) FAP 0311 (OGDEN 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
		DRAWN -- BAH	REVISED -- BAH 10-14-11
	PLOT SCALE =	CHECKED -- JEF	REVISED --
	PLOT DATE =	DATE -- 5-31-11	REVISED --

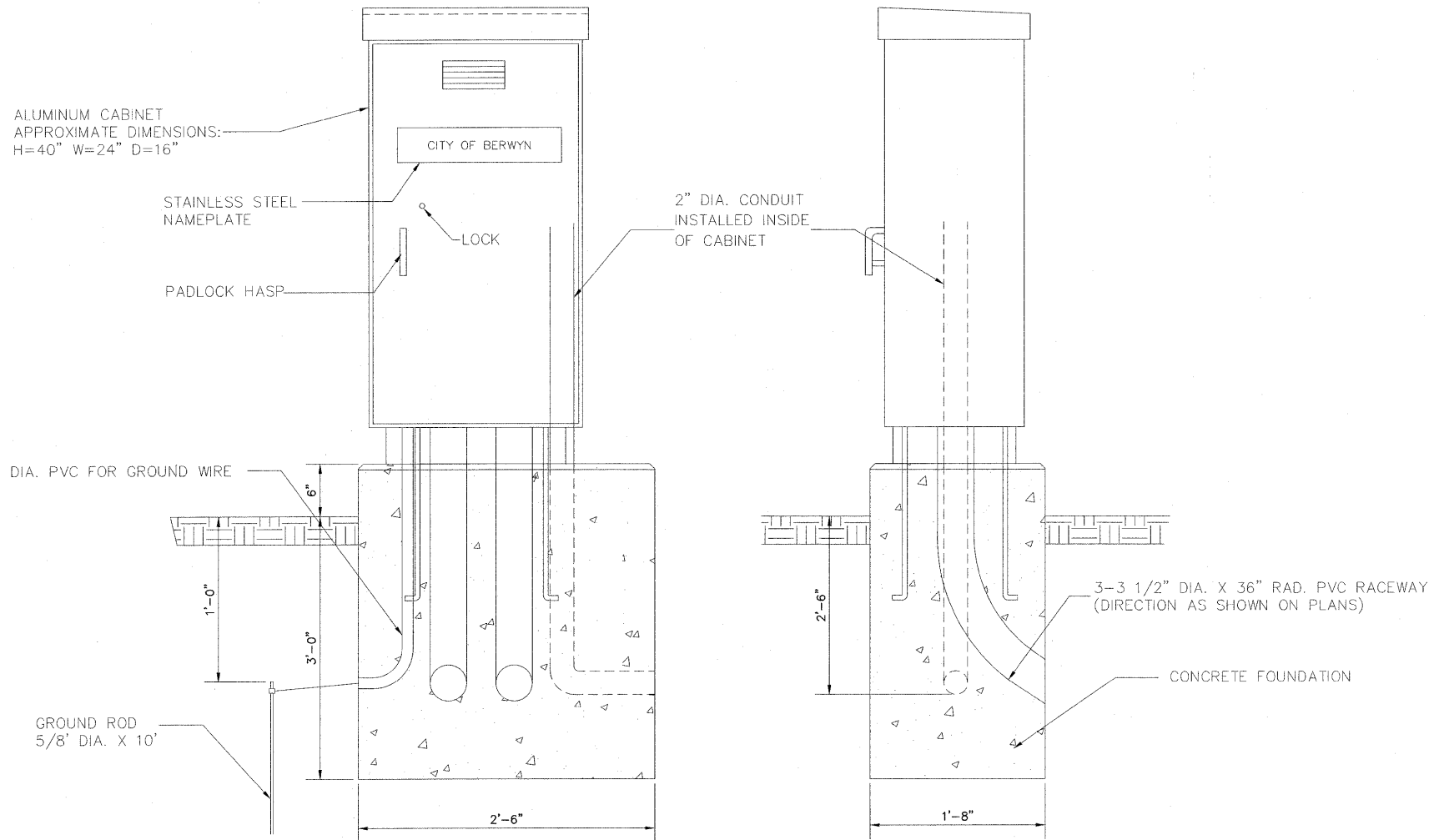
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS - EXISTING CONTROLLER #7
W/ PROPOSED LIGHTING SYSTEM ON OAK PARK AVE.**

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

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ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000028

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	17
CONTRACT NO. 63628			HPP-3465(002)	



NOTES FOR MODIFYING THE EXISTING CONTROLLERS

1. RUN THE PROPOSED 1-1/4" UNIT DUCT INTO THE SPARE 3-1/2" RACEWAY INTO THE CONTROLLER.
2. PROVIDE ENGRAVED NAMEPLATES ATTACHED WITH SCREWS FOR CIRCUIT BREAKERS, FUSES AND CONTROL DEVICES. PAINT EXTERIOR OF NEUTRAL LUGS WHITE, GROUND LUGS GREEN.
3. THE CIRCUIT WIRING SHALL BE NO. 12 AWG 600V. CONTROL EQUIPMENT SHALL BE GROUNDED. ALL WIRING SHALL BE TAGGED USING SELF-STICKING WIRE MARKERS.
4. CIRCUIT E IS TO REMAIN THE "SPARE" CIRCUIT FOR THIS CABINET. THE TWO PROPOSED CIRCUIT BREAKERS WILL BE CIRCUITS F & G AND WILL BE CONNECTED AS SHOWN ON SHEETS 15 THRU 17.

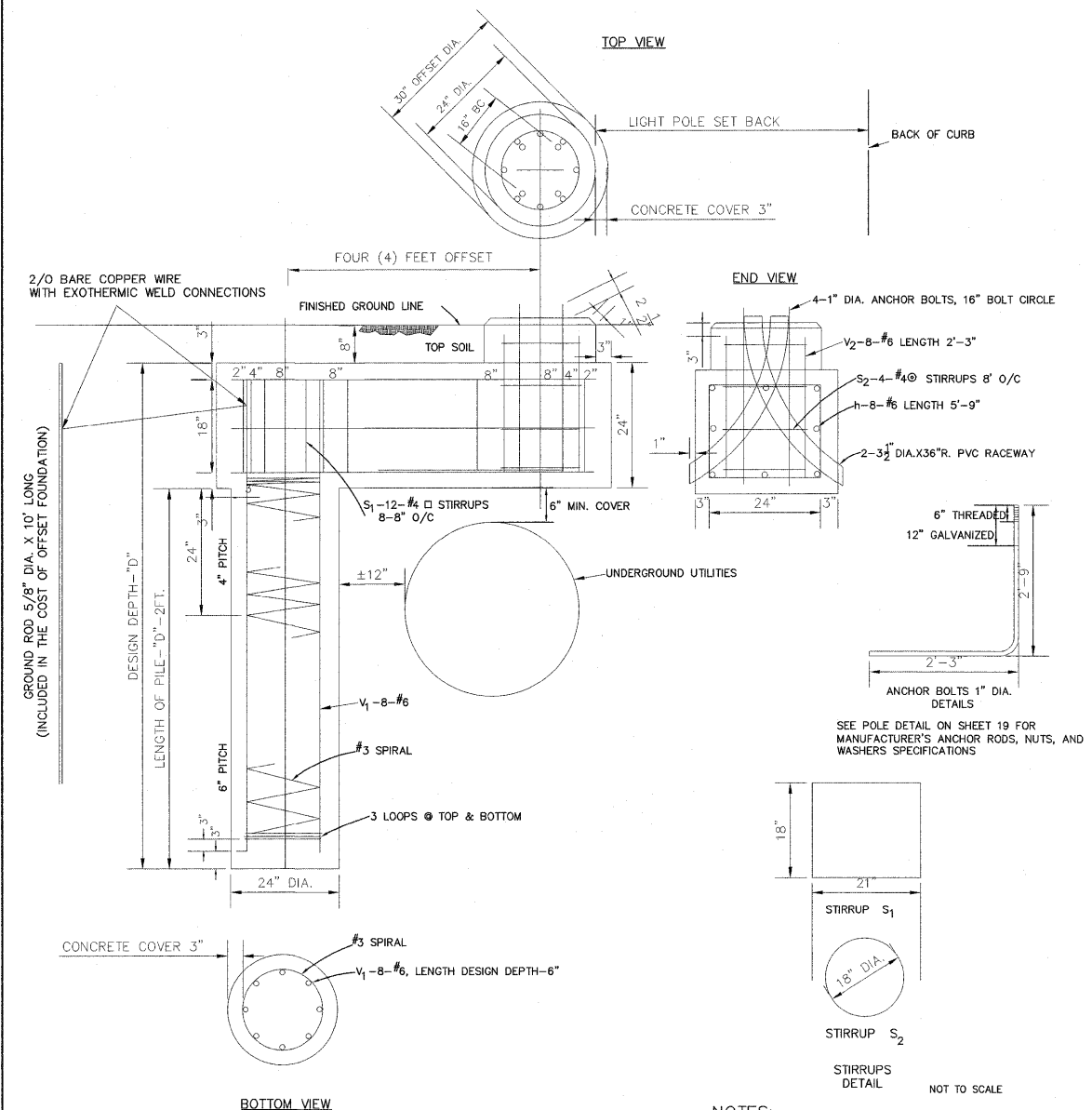
**EXISTING LIGHTING CONTROLLER, PAD MOUNTED DETAIL
MODIFY EXISTING CONTROLLER**

FILE NAME = FAU 2775 (OAK PARK AVENUE)	USER NAME =	DESIGNED -- BAH	REVISED -- BAH 7-11-11
FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET)		DRAWN -- BAH	REVISED -- BAH 10-14-11
FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD)	PLOT SCALE =	CHECKED -- JEF	REVISED --
OAK PARK AVENUE ARTERIAL STREET LIGHTING	PLOT DATE =	DATE -- 5-31-11	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FOUNDATION DESIGN TABLE

CLASSIFICATION OF SOIL	DESIGN DEPTH "D"	VERTICAL BAR	HORIZONTAL BAR	SPIRAL BAR IN PILE	STIRRUP BAR
SOFT CLAY	11'-0"	V ₁ -8-#6	H ₂ -8-#6 . 2'-3"	#4 SPIRAL	S ₁ -#4 - □
MEDIUM CLAY	9'-0"				
STIFF CLAY	7'-6"				
LOOSE SAND	9'-6"				
MEDIUM SAND	9'-0"				
DENSE SAND	8'-3"				S ₂ -#4 - ⊙
ROCK/SOLIDIFIED SLAG	5'-0"				



- NOTES:**
1. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
 2. EXCAVATION FOR THE LIGHT POLE FOUNDATION SHALL BE MADE WITH AN AUGER 21" INCHES IN DIAMETER.
 3. THE ANCHOR BOLTS AND RACEAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
 4. CONCRETE SHALL BE CLASS "X" CONCRETE. CONCRETE FOUNDATION MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
 5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT STANDARD IS ERECTED ON THE FOUNDATION.

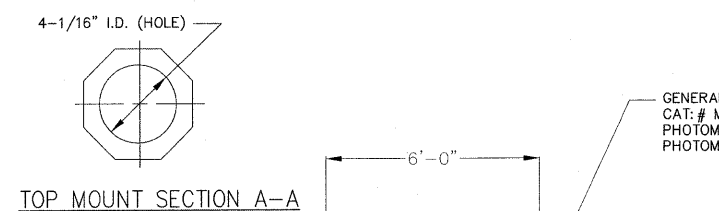
POLE FOUNDATION, OFFSET, CONCRETE

CONSTRUCTION DETAILS

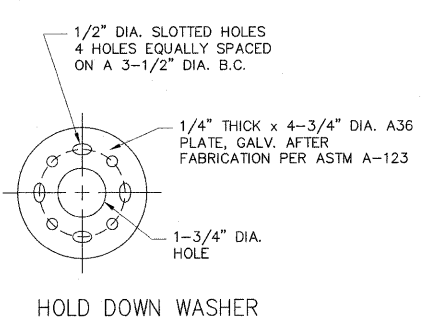
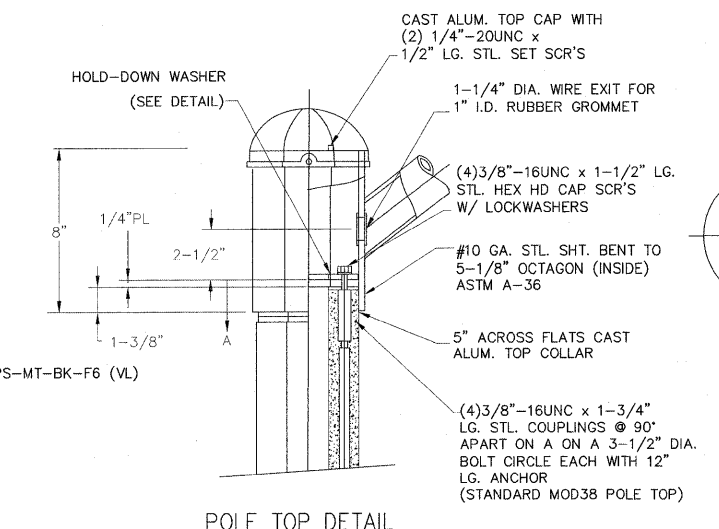
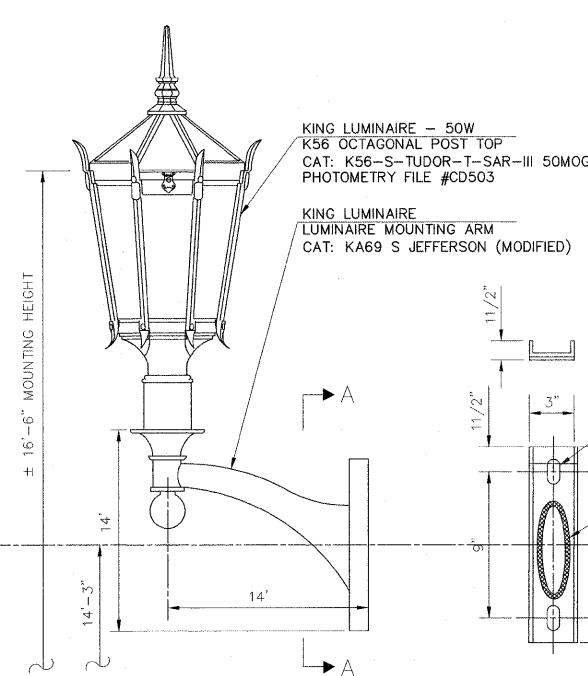
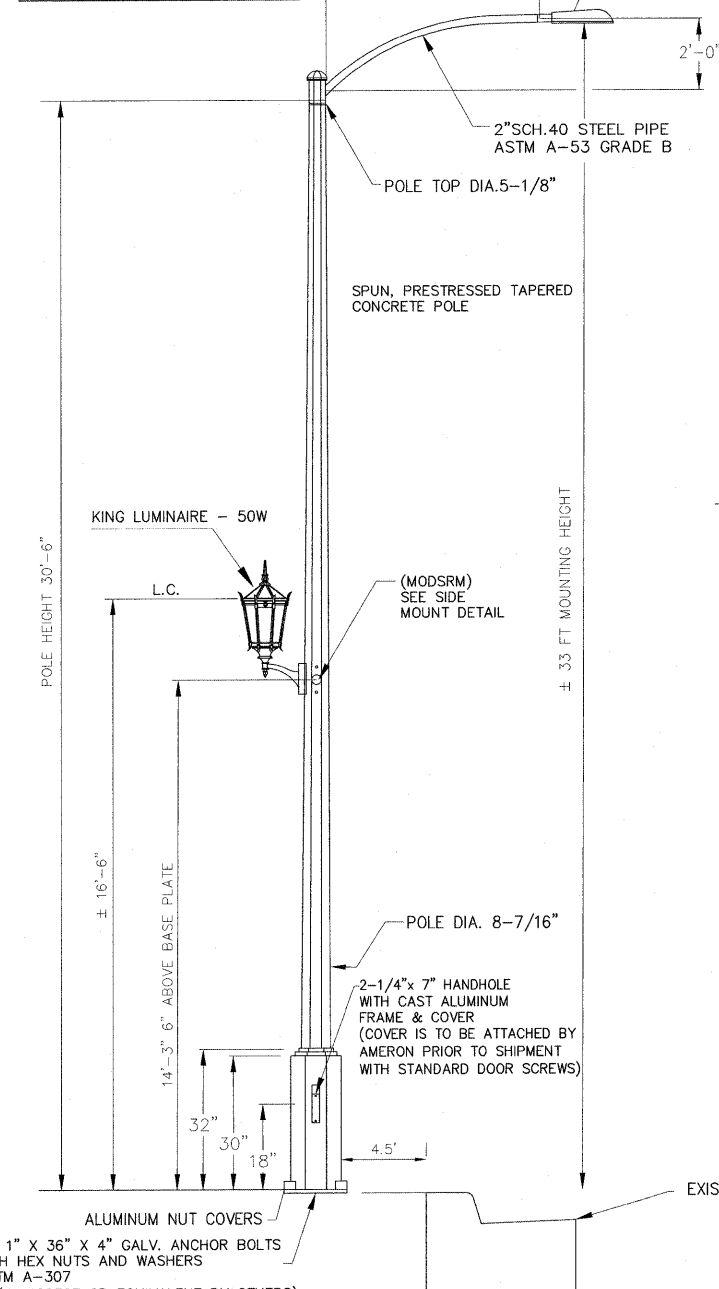
SCALE: NONE | SHEET NO. OF SHEETS STA. TO STA.

Frank Novotny & Associates, Inc.
 235 Midway Drive • Willard, IL • 60127 • Telephone: (815) 887-8640 • Fax: (815) 887-0132
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 104-000928

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	18
CONTRACT NO. 63628				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	HPP-3465(002)		

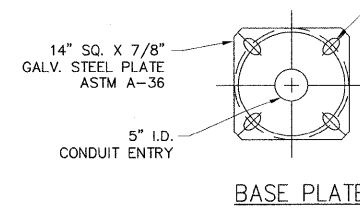
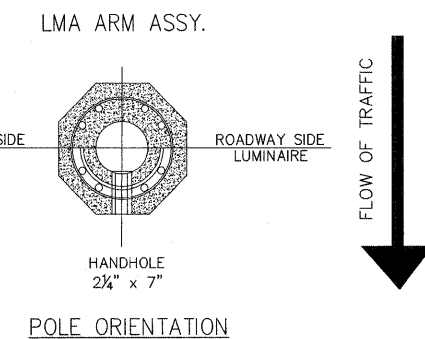
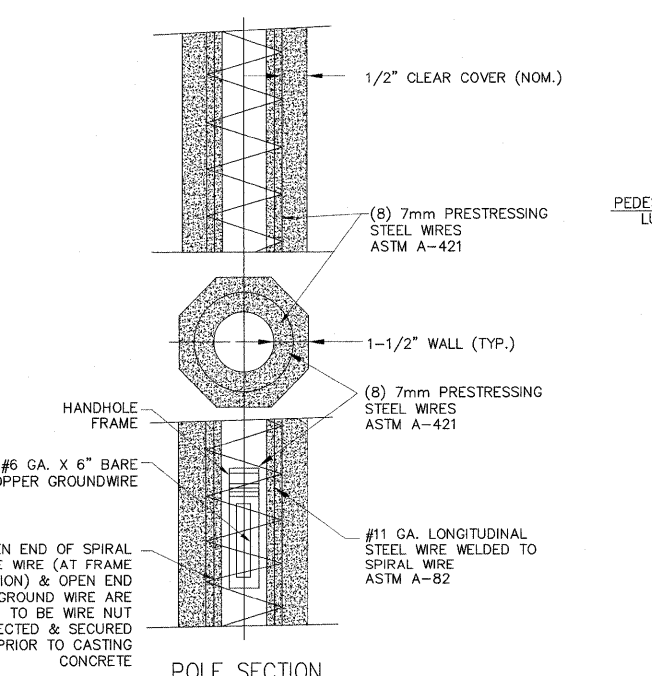
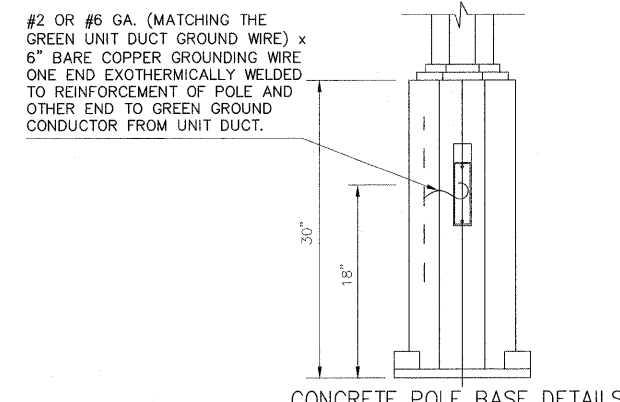
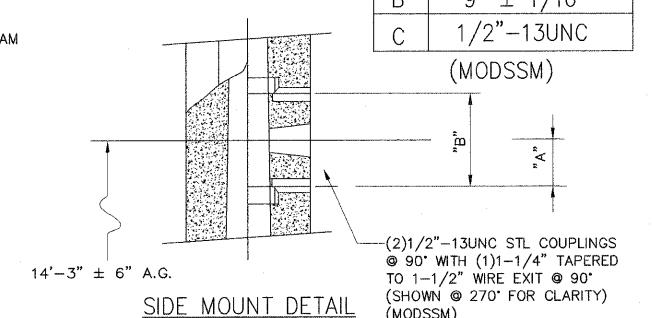


GENERAL ELECTRIC LUMINAIRE
CAT: # M2AC-10-S-O-H-I-G-MCIII-I-BK
PHOTOMETRY FILE #GE177285 - 100W & 150W
PHOTOMETRY FILE #GE177304 - 250W



NOTE:
HOLE SPACING "A", "B", & COUPLING SIZE "C" FOR FIX. MOUNTING BOLTS

A	4-1/2" ± 1/16"
B	9" ± 1/16"
C	1/2"-13UNC (MODSSM)



"F" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO
COATING	S	
HH COVER	66526E	
HH PAINT	BARE	
COLLAR PNT	BARE	
DOOR SCR	STD	
MISC. MOD	MODFE	NOTE 9
"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO
MIX	11	
FINISH	4	
BASE PLATE	61239E	
COLLAR SHAPE	OCT	
POLE TOP CON.	MOD38	
CAST IN MOD	MODSSM	
STRUC. MOD	MODDCI	NOTE 10

MEDIUM BASEPLATE OCTAGONAL ILLINOIS STEP BASE POLE

POLE DESIGNATION	POLE HEIGHT A.G. (NOM.)	OVERALL POLE LENGTH	BOLT CIRCLE	BASE O.D.	ULTIMATE G.L. MOMENT (ft. lbs.)	WEIGHT (lbs.)
MB109	30'-5"	30'-3"	16"	12'-3/16"	22,540	1,200

() POLES REQUIRED, EACH WITH 6" GALV. STEEL LMA ASSEMBLY (P/N: MOSP6A)

- NOTES:
- MIX (114S): GRAY NATURAL, LIGHTLY POLISHED FINISH, WITH FLAT WATER SEALER COATING
 - ASTM C-150 TYPE III GRAY CEMENT
 - f'c @ 28 DAYS = 7,000 PSI, USING SPUN CYLINDER TEST.
 - f'c @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.
 - POLES MANUFACTURED PER ASTM C-1089-06 SPECIFICATIONS
 - PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
 - DUE TO THE NATURE AND CHARACTERISTICS OF CONCRETE, SIDE MOUNT INSERT DIMENSIONS CAN ONLY BE TAKEN TO THE NEAREST 1/8"
 - TOP MOUNT LMA IS DESIGNED TO ROTATE TO ANY MATCHING OCTAGONAL FLAT ORIENTATION, PER CUSTOMER REQUIREMENTS.
 - MODFE: POLE BOTTOM PREPARATION FOR FREEZING OR CORROSIVE COASTAL ENVIRONMENT; SEE DOCUMENTATION.
 - MODDCI: CORROSION INHIBITOR MIX MODIFICATION.

- NOTES
- THE LIGHT POLE SHALL MEET AASHTO DESIGN CRITERIA AND SHALL BE LISTED OR CLASSIFIED BY A UNITED STATES TESTING LABORATORY SUCH AS U/L OR ETL.
 - THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR POLE AND LUMINAIRE. LUMINAIRE SHALL BE INSTALLED AS SOON AS THE POLE IS ERECTED.
 - ELECTRICAL EQUIPMENT SHALL BE U/L LISTED (TYP. FOR ALL)
 - EXPLANATIONS FOR LUMINAIRE CATALOG NUMBERS CAN BE FOUND IN THE SPECIAL PROVISIONS FOR THIS PROJECT.
 - THE LIGHT POLE SHALL BE MADE TO WITHSTAND 90 MPH WIND VELOCITY.

LIGHT POLE AND LUMINAIRE DETAILS

FILE NAME = FAU 2775 (OAK PARK AVENUE)	USER NAME =	DESIGNED - BAH	REVISED - BAH 7-11-11
FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET)		DRAWN - BAH	REVISED - BAH 10-14-11
FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD))	PLOT SCALE =	CHECKED - JEF	REVISED -
OAK PARK AVENUE ARTERIAL STREET LIGHTING	PLOT DATE =	DATE - 5-31-11	REVISED -

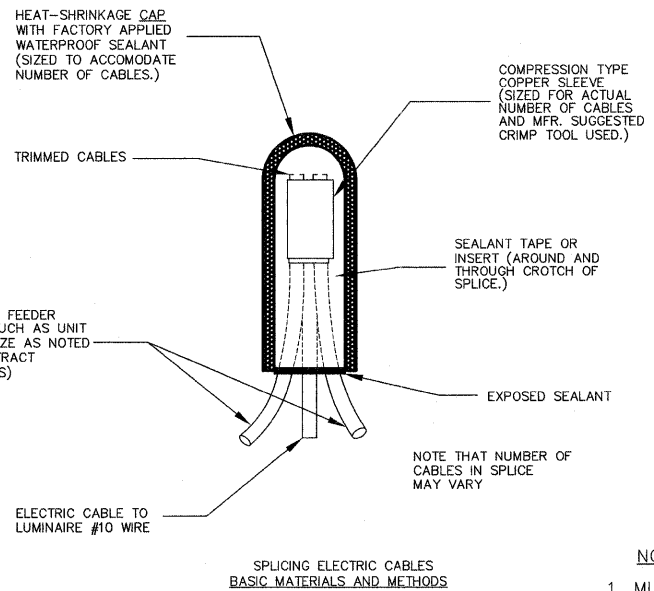
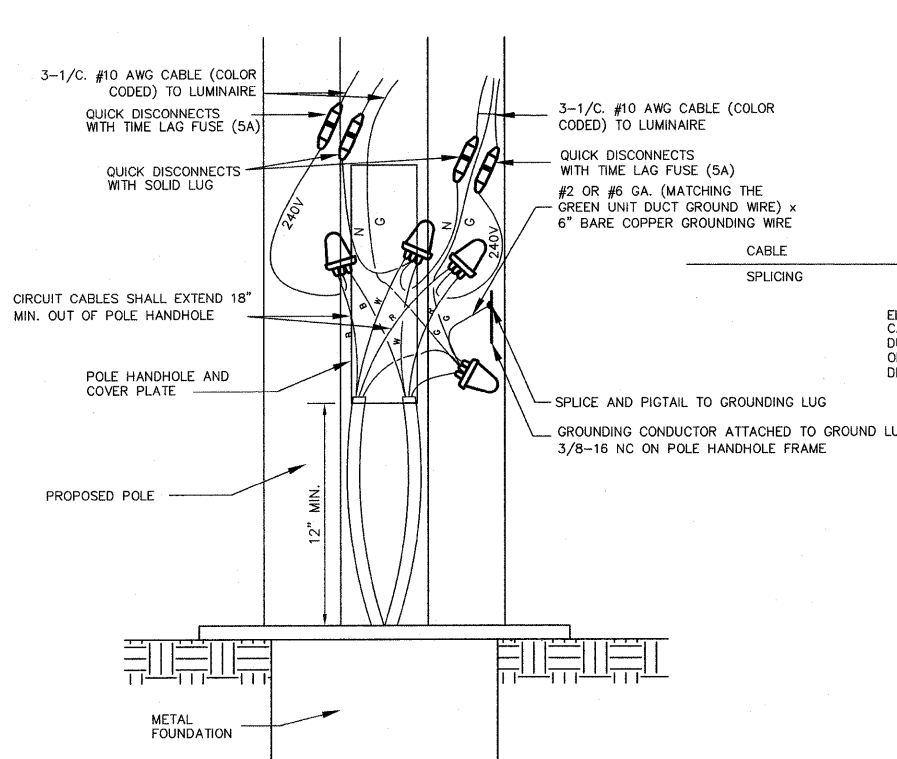
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

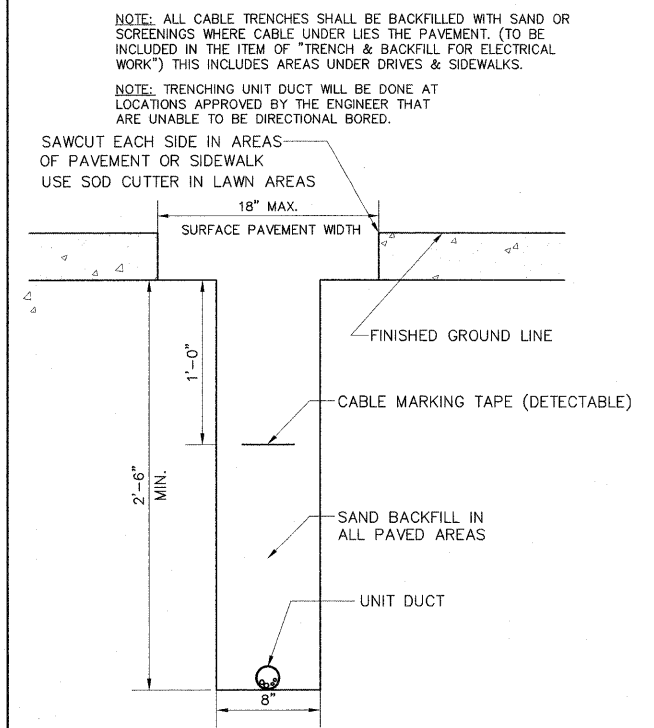
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

Frank Novotny & Associates, Inc.
227 Midway Drive • Willmetts, IL • 60177 • Telephone: (630) 837-8500 • Fax: (630) 837-0132
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	19
CONTRACT NO. 63628				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HPP-3465(002)				



- NOTES:**
1. MULTIPLE SPLICE INSULATOR SHALL BE INSTALLED ACCORDING TO MANUFACTURER INSTRUCTION
 2. ALL LABOR AND SPLICING MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THE "ROADWAY LIGHTING STANDARD" PAY ITEM.



NOTE: ALL CABLE TRENCHES SHALL BE BACKFILLED WITH SAND OR SCREENINGS WHERE CABLE UNDER LIES THE PAVEMENT. (TO BE INCLUDED IN THE ITEM OF "TRENCH & BACKFILL FOR ELECTRICAL WORK") THIS INCLUDES AREAS UNDER DRIVES & SIDEWALKS.

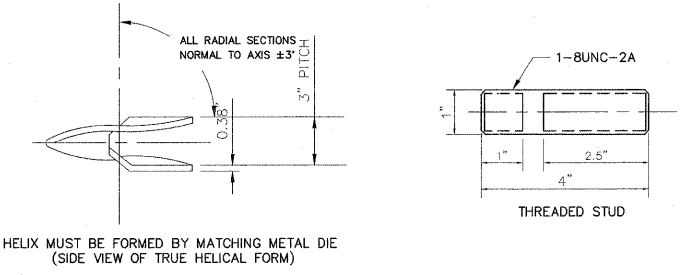
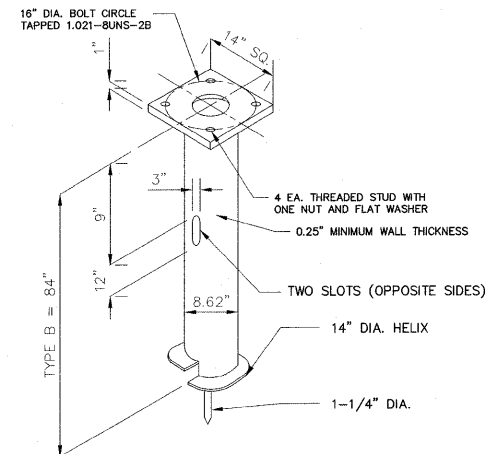
NOTE: TRENCHING UNIT DUCT WILL BE DONE AT LOCATIONS APPROVED BY THE ENGINEER THAT ARE UNABLE TO BE DIRECTIONAL BORED.

CABLE SPLICING DETAILS IN POLE HANDHOLE

ROADWAY LIGHTING TRENCH DETAIL

-NOTES-

- 1) FINISH: HOT DIP GALVANIZE PER ASTM-A123(LATEST REVISION)
- 2) BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS ($\pm 1"$) AND HOLE CENTERLINE CONCENTRIC (± 0.188) TO SHAFT AXIS.
- 3) PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (± 0.125 FIM) AND IN LINE ($\pm 2'$)
- 4) FLAME CUT SLOT PERPENDICULAR TO THE BASEPLATE.
- 5) PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
- 6) FLAMECUT IRREGULARITIES PERMISSIBLE, 1) VALLEYS NOT TO EXCEED $3/32"$ BELOW NOMINAL SURFACE LEVEL. 2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED $1/32"$ ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
- 7) MANUFACTURERS TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
- 8) ALL MATERIALS IS TO BE NEW. UNUSED AND MILL MEETING THE FOLLOWING SPECIFICATIONS:
- a) BASEPLATE: ASTM A36-(LATEST REVISION) STRUCTURAL STEEL (CONFORM TO AASHTO TECH. BUL. #270).
- b) SHAFT: ASTM A252-(LATEST REVISION) GRADE 2, STEEL PIPE PIL ALTERNATE MATERIAL: ASTM A53-(LATEST REVISION) TYPE E OR S. GRADE B, STEEL PIPE OR ASTM A500-(LATEST REVISION) GRADE B, STRUCTURAL STEEL TUBING.
- c) HELIX: ASTM A635-(LATEST REVISION) HOT ROLLED STEEL.
- d) PILOT POINT: ASTM A575-(LATEST REVISION) STEEL BAR
- e) BOLTS: $1" \times 4"$ SPECIAL STUD. THREADED EACH END, AS APPROVED BY MANUFACTURER.
- 9) BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN $1/2"$ LETTERS AND DATE OF MANUFACTURE IN $1/4"$ LETTERS.
- 10) COMPLY WITH DOMESTIC STEEL REQUIREMENTS.
- 11) ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN $1/4"$ FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS. OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- 12) ALL HEXAGON NUTS AND WASHERS SHALL BE PROVIDED AS APPROVED BY THE MANUFACTURER.



METAL POLE FOUNDATION, 16" BOLT CIRCLE 8" x 7'

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)
 OAK PARK AVENUE ARTERIAL STREET LIGHTING

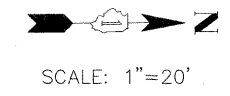
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PLOT SCALE =	DRAWN -- BAH	REVISED -- BAH 10-14-11
PLOT DATE =	CHECKED -- JEF	REVISED --
	DATE -- 5-31-11	REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

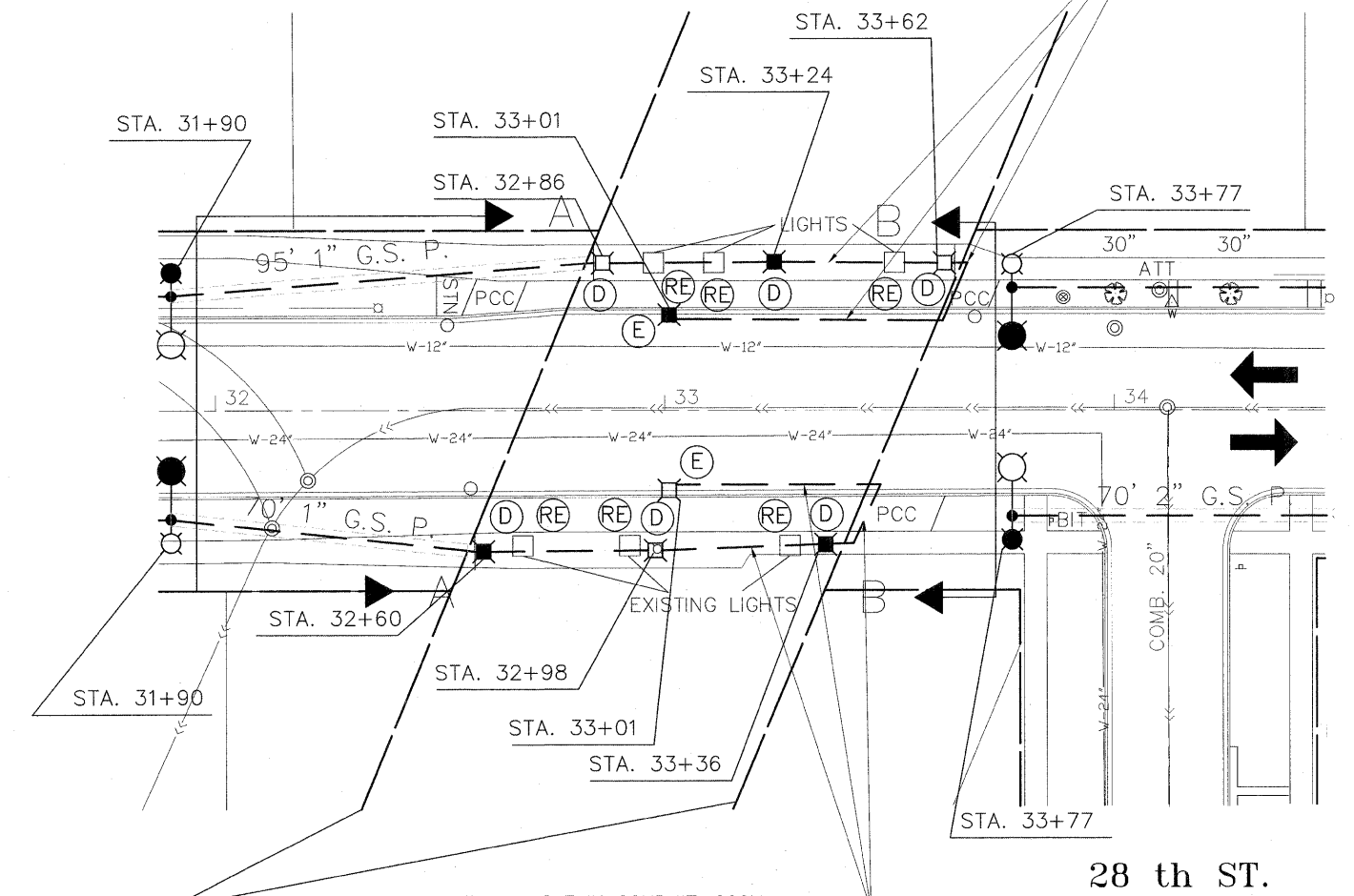
SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.
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 Civil Engineers
 827 Midway Drive • Willmetts, IL • 60127 • Telephone: (630) 837-8640 • Fax: (630) 837-0132
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928

F.A.U. RTE. 2775	SECTION 05-00162-00-LS	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 20
CONTRACT NO. 63628			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HPP-3465(002)	



ELECTRIC CABLE IN CONDUIT, 600V
(XLP TYPE USE), 3 1/C No. 8, 1/C No. 8 GROUND
CONDUIT ATTACHED TO STRUCTURE
RIGID STEEL, 1" DIA. (TYPICAL)



ELECTRIC CABLE IN CONDUIT, 600V
(XLP TYPE USE), 3 1/C No. 8, 1/C No. 8 GROUND
CONDUIT ATTACHED TO STRUCTURE
RIGID STEEL, 1" DIA. (TYPICAL)

UNDERPASS LIMITS

NOTES:

- SEE SHEET 22 FOR SECTIONS A-A & B-B.
JUNCTION BOX LOCATIONS CAN BE FOUND IN THESE SECTIONS.

UNDERPASS DETAILS

FILE NAME = FAU 2775 (OAK PARK AVENUE) FAP 0311 (OGDEN AVENUE) TO FAU 3734 (34TH STREET) FAU 1468 (31ST STREET TO FAU 1453 (CERMAK ROAD) OAK PARK AVENUE ARTERIAL STREET LIGHTING	USER NAME =	DESIGNED -- BAH	REVISED -- BAH 7-11-11
		DRAWN -- BAH	REVISED -- BAH 10-14-11
	PLOT SCALE =	CHECKED -- JEF	REVISED --
	PLOT DATE =	DATE -- 5-31-11	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

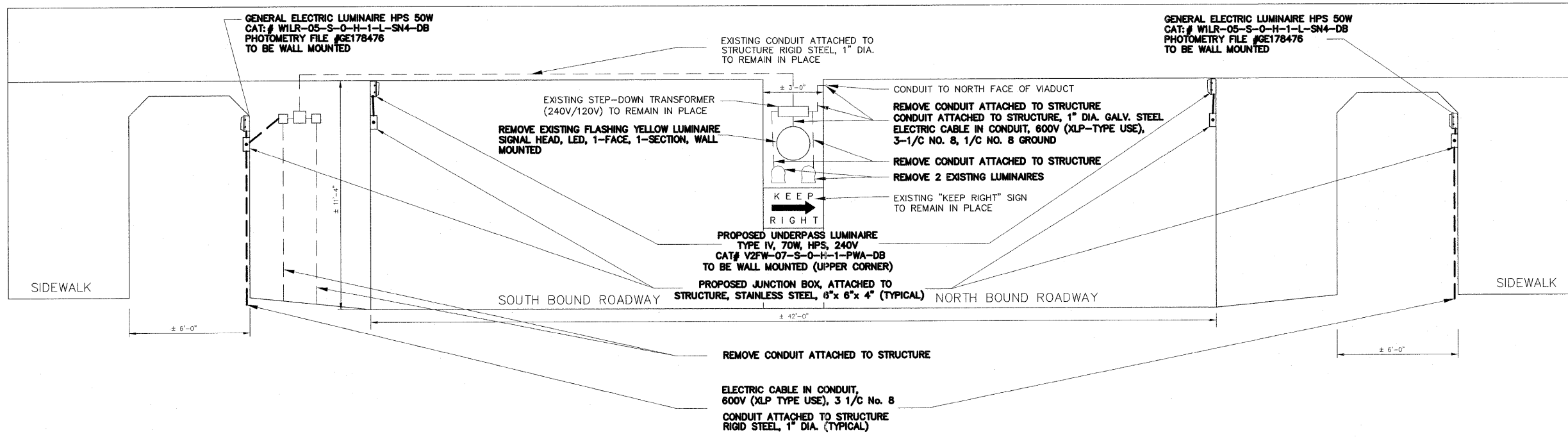
CONSTRUCTION DETAILS

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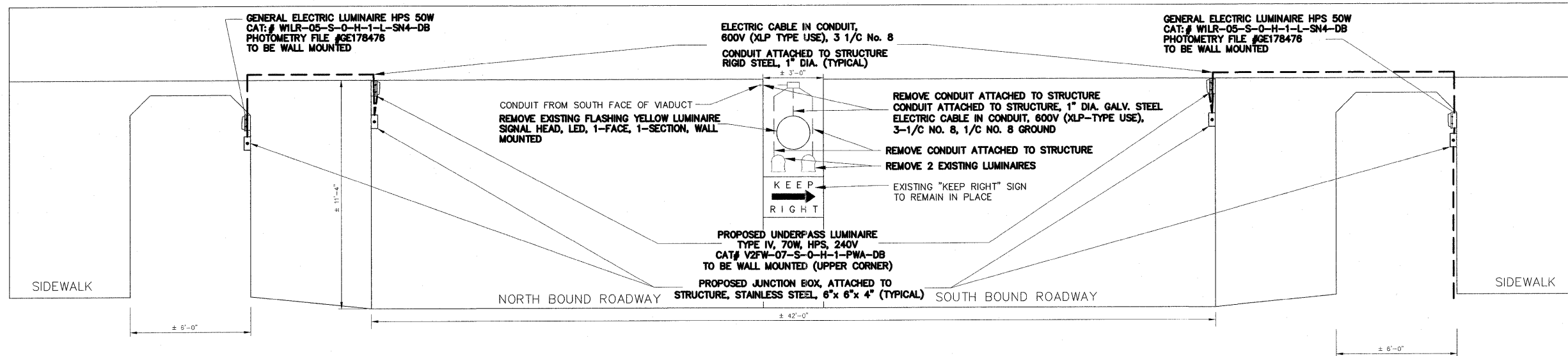
Frank Novotny & Associates, Inc.
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125 Midway Drive • Willowbrook, IL • 60127 • Telephone: (630) 897-8640 • Fax: (630) 897-0122
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928

F.A.U. R.T.E. 2775	SECTION 05-00162-00-LS	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 21
CONTRACT NO. 63628			HPP-3465(002)	

SECTION A-A
(FROM SHEET 21)
SOUTH FACE OF UNDERPASS



SECTION B-B
(FROM SHEET 21)
NORTH FACE OF UNDERPASS



UNDERPASS DETAILS

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

USER NAME =	DESIGNED — BAH	REVISED — BAH 7-11-11
	DRAWN — BAH	REVISED — BAH 10-14-11
PLOT SCALE =	CHECKED — JEF	REVISED —
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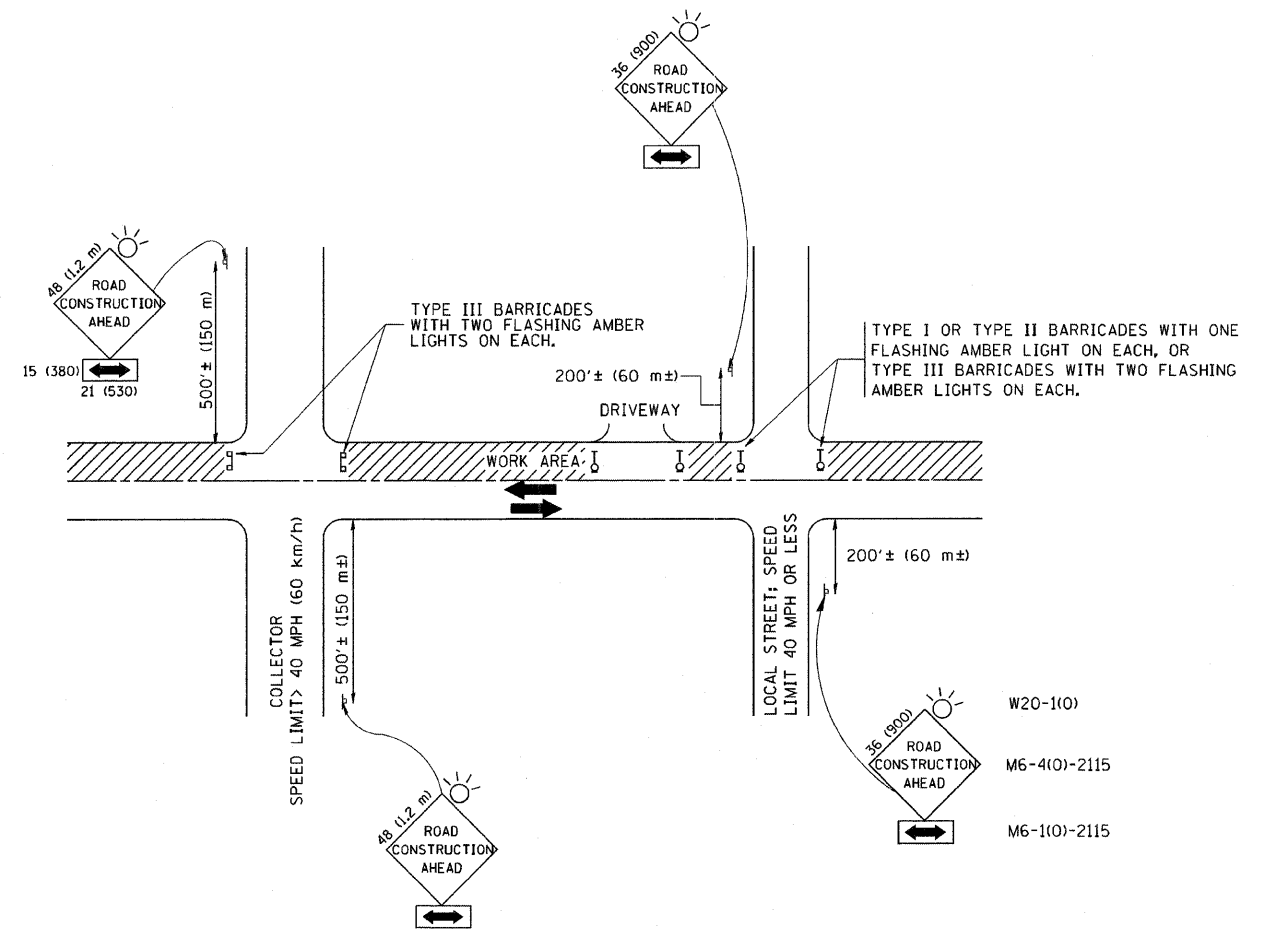
STATE OF ILLINOIS
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CONSTRUCTION DETAILS

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

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ILLINOIS PROFESSIONAL DESIGN FIRM NO. 164-000928

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	22
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT HPP-3465(002)	
			CONTRACT NO. 63628	



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

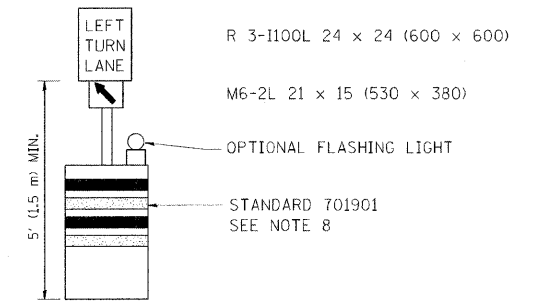
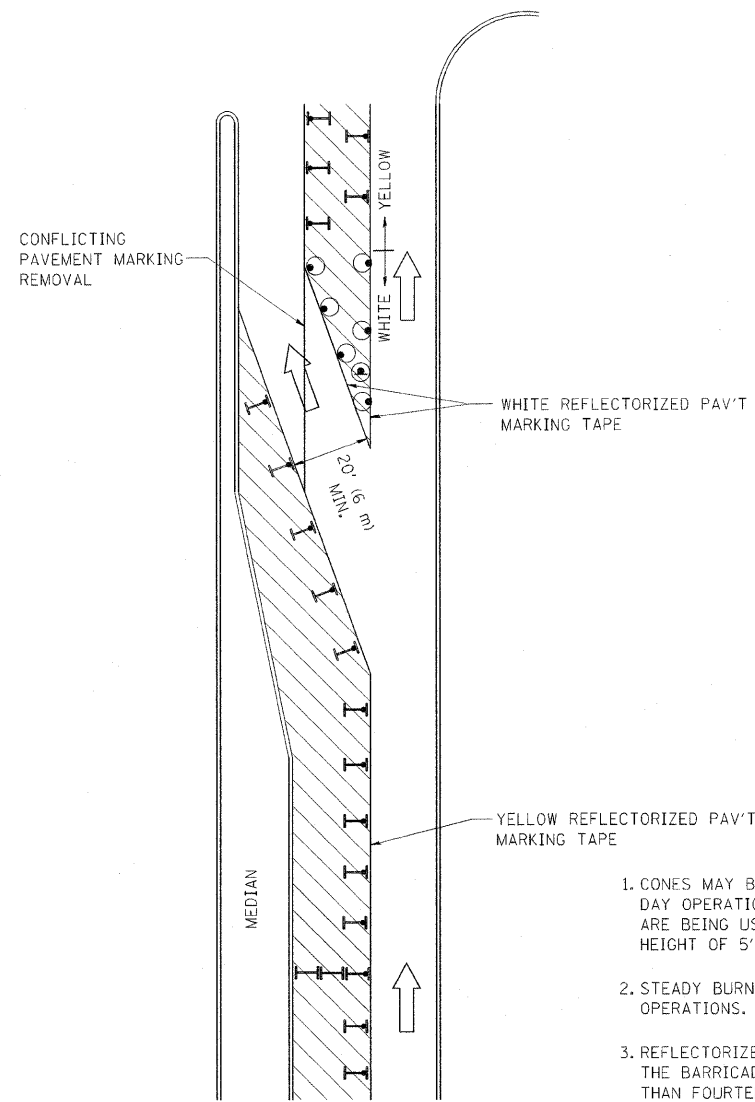
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	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2006	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

F.A.U. RTE. 2775	SECTION 05-00162-00-LS	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 23
TC-10		CONTRACT NO. 63628		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3465(002)				

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

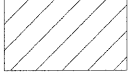







GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = drvakosgn	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
es:\pwork\pwidot\DRIVAKOSGN\0100335\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
PLOT SCALE = 49.9999 1/ IN.		REVISED - A. HOUSEH 10-12-96	REVISED -
PLOT DATE = 9/14/2009		REVISED - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

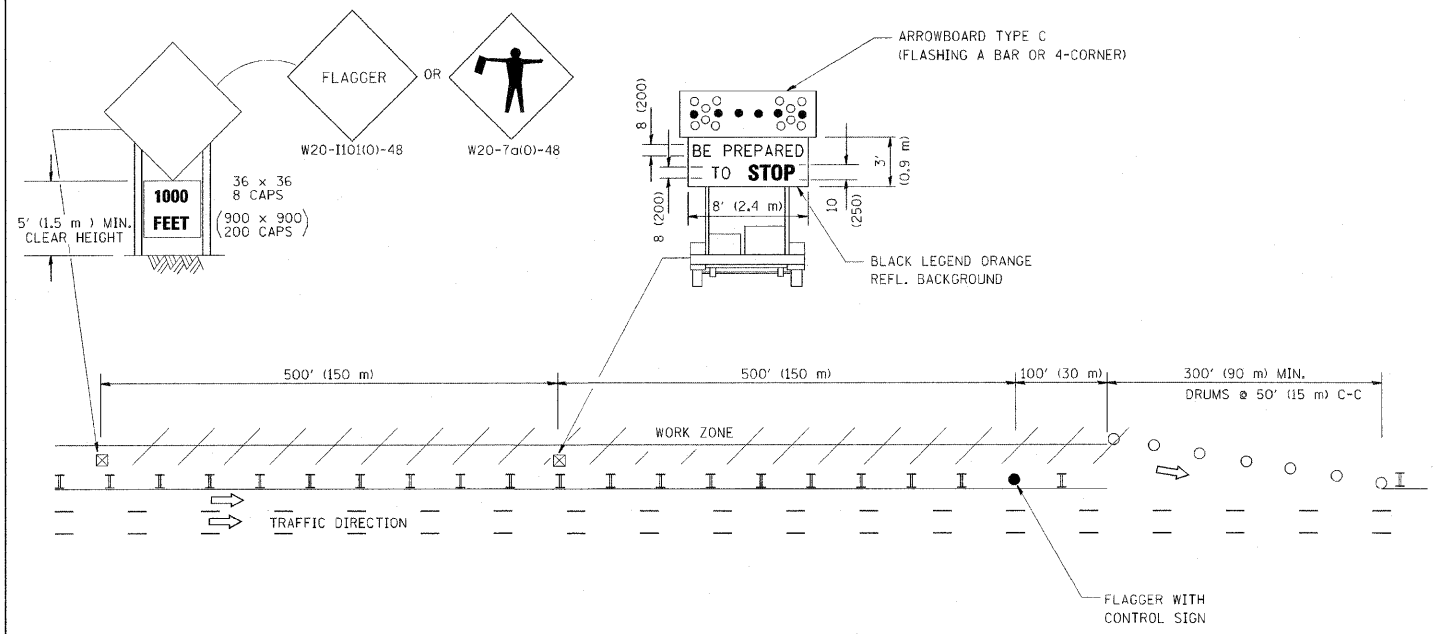
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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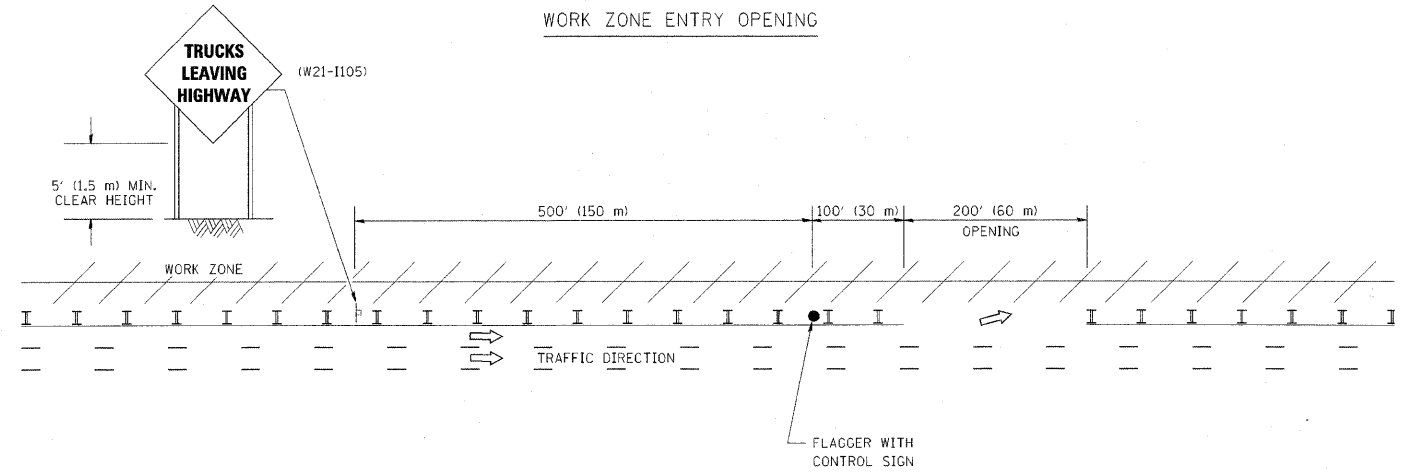
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2775	05-00162-00-LS	COOK	25	24
TC-14		CONTRACT NO. 63628		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT HPP-3465(002)				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



- NOTES:
1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
 2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
 3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
 4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\adists\std\22x34\ts.8.dgn	USER NAME = lsguo	DESIGNED -	REVISED - J.A.F. 04-03
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/26/2010	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE. 2775	SECTION 05-00162-00-LS	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 25
TC-18		CONTRACT NO. 63628		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HPP-3465(002)				