

PROJECT MANAGER: RAYMOND KUMAPLEY (815)744-4200

FIELD ENGINEER: PHIL MARCYN (847) 705-4229

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 63112		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED PLANS FOR FEDERAL-AID HIGHWAY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FAU ROUTE 1412 – WASHINGTON BOULEVARD
HOME AVENUE TO LOMBARD AVENUE
TRAFFIC SIGNAL INTERCONNECTION PLANS
SECTION 07-00245-00-TL
PROJECT NO. CMM-8003(936)
JOB NO. C91-155-08
VILLAGE OF OAK PARK
COOK COUNTY

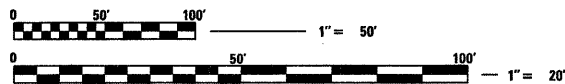


ADT RIDGELAND AVENUE (2006) - 18,000
ADT RIDGELAND AVENUE (2016) - 19,900
ADT WASHINGTON BOULEVARD (2006) - 8600
ADT WASHINGTON BOULEVARD (2016) - 9500
ADT OAK PARK AVENUE (2006) - 13,100
ADT OAK PARK AVENUE (2016) - 14,500

VILLAGE OF OAK PARK
POLICE DEPARTMENT (708) 386-3800
FIRE DEPARTMENT (708) 386-3300

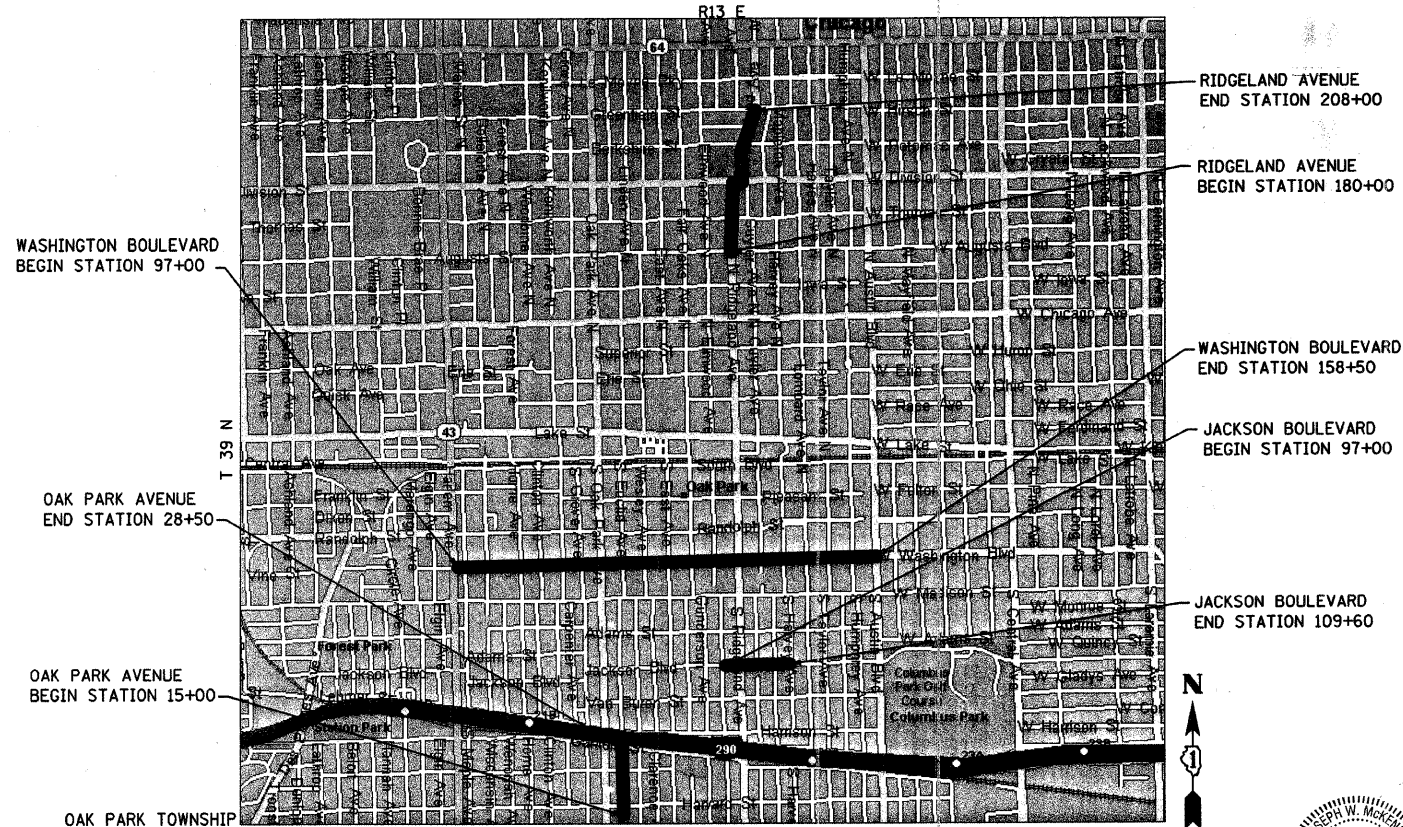
POSTED SPEED LIMIT

WASHINGTON BOULEVARD - 30 MPH
RIDGELAND AVENUE - 30 MPH
JACKSON BOULEVARD - 25 MPH
OAK PARK AVENUE - 30 MPH



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



WASHINGTON BOULEVARD GROSS PROJECT LENGTH: 6,150 FEET = 1.17 MILES
WASHINGTON BOULEVARD NET PROJECT LENGTH: 6,150 FEET = 1.17 MILES

JACKSON BOULEVARD GROSS PROJECT LENGTH: 1,260 FEET = 0.24 MILES
JACKSON BOULEVARD NET PROJECT LENGTH: 1,260 FEET = 0.24 MILES

RIDGELAND AVENUE GROSS PROJECT LENGTH: 2,800 FEET = 0.53 MILES
RIDGELAND AVENUE NET PROJECT LENGTH: 2,800 FEET = 0.53 MILES

OAK PARK AVENUE GROSS PROJECT LENGTH: 1,350 FEET = 0.26 MILES
OAK PARK AVENUE NET PROJECT LENGTH: 1,350 FEET = 0.26 MILES

082-080875
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
MAY 26, 2009

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED MAY 26, 2009
[Signature]
VILLAGE OF OAK PARK - VILLAGE ENGINEER

PASSED MAY 29, 2009
[Signature] CHRISTOPHER HOLT
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW MAY 29, 2009
[Signature] DEBRA M. O'NEILL
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

STRAND ASSOCIATES, INC.
ENGINEERS

1170 SOUTH HAMBOLT ROAD
JOLIET, ILLINOIS 60431
630 744-4800

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

CONTRACT NO. 63112

GENERAL NOTES

1. THE LOCATIONS OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.
2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AND THE VILLAGE OF OAK PARK PUBLIC WORKS (708-358-5700) FOR FIELD LOCATIONS OF VARIOUS UTILITIES.
3. THE CONTRACTOR SHALL COORDINATE VARIOUS CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
4. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKER MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DISRUPTED BY THEIR OPERATIONS.
5. BARRICADES: ALL UNBALLASTED TYPE I AND TYPE II BARRICADES SHALL HAVE TWO (2) SANDBAGS ON THE BOTTOM RAIL. A TYPE III BARRICADE SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS. ANY DAMAGE TO EXISTING PLANT MATERIAL DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND AT THEIR EXPENSE.
7. CONTRACTOR SHALL TAKE CARE TO PROTECT EXISTING LANDSCAPING AT LOCATIONS NOT SHOWN IN THE PLANS TO BE REMOVED AND AS DIRECTED BY THE ENGINEER. LANDSCAPING TO BE PROTECTED THAT IS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND AT THEIR EXPENSE.
8. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE VILLAGE OF OAK PARK.
9. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS AT ALL TIMES TO ALL PRIVATE AND COMMERCIAL PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT.
10. THE VILLAGE OF OAK PARK WATER DEPARTMENT (708-445-3340 EXT. 3375) SHALL BE RESPONSIBLE FOR TURNING THE WATER MAIN VALVES ON AND OFF. THE CONTRACTOR IS NOT ALLOWED TO TURN THE VILLAGE OF OAK PARK OWNED WATER MAIN VALVES ON AND OFF. THE CONTRACTOR SHALL CONTACT THE VILLAGE OF OAK PARK FOR A WATER METER IF NECESSARY.
11. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PARKING METERS ALONG THE PROJECT CORRIDOR. IF THE PARKING METERS ARE FOUND TO INTERFERE WITH CONSTRUCTION ACTIVITY, THEY SHALL BE CAREFULLY REMOVED FROM THEIR METAL SUPPORT POST, STORED, AND IMMEDIATELY REINSTALLED WHEN THE HAZARD NO LONGER EXISTS, OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE CAREFUL NOT TO DAMAGE THE SUPPORT OR FOUNDATION WHEN REMOVING THE ADJACENT SIDEWALK. ANY DAMAGE TO OR LOSS OF ANY COMPONENT SHALL BE REPLACED OR REPAIRED AT NO EXTRA COST.

12. MODIFICATIONS TO PROPOSED HANDHOLES NECESSARY TO INTERCEPT EXISTING CONDUITS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCIDENTAL TO THE CONTRACT.

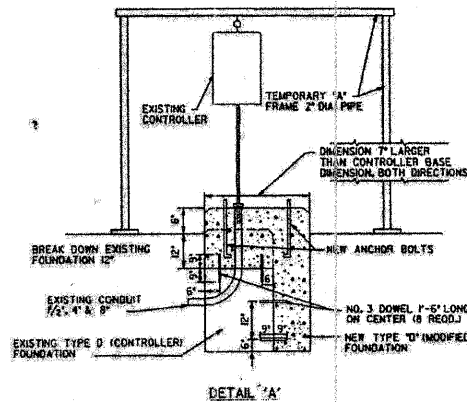
INCIDENTAL ITEMS

HIGHWAY STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS (8 SHEETS)
- 424001-05 CURB RAMPS FOR SIDEWALKS (2 SHEETS)
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-02 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES (3 SHEETS)
- 814001-02 HANDHOLES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES (2 SHEETS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 878001-07 CONCRETE FOUNDATION DETAILS (2 SHEETS)
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

DISTRICT STANDARDS

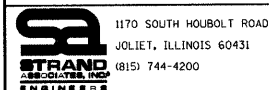
- BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- TC-22 TEMPORARY INFORMATION SIGNING
- TS-03 HANDHOLE TO INTERCEPT EXISTING CONDUIT
- TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL (4 SHEETS)



INDEX OF DRAWINGS

DRAWING NUMBER	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, HIGHWAY STANDARDS, AND DISTRICT DETAILS
3	SUMMARY OF QUANTITIES
4-6	WASHINGTON BOULEVARD AND HOME AVENUE -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
7-9	WASHINGTON BOULEVARD AND OAK PARK AVENUE -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
10-13	WASHINGTON BOULEVARD AND EAST AVENUE -EXISTING TRAFFIC SIGNAL PLAN -TRAFFIC SIGNAL REMOVAL PLAN -MODIFICATION PLAN -CABLE PLAN
14-16	WASHINGTON BOULEVARD AND RIDGELAND AVENUE -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
17-20	WASHINGTON BOULEVARD AND LOMBARD AVENUE -EXISTING TRAFFIC SIGNAL PLAN -TRAFFIC SIGNAL REMOVAL PLAN -MODIFICATION PLAN -CABLE PLAN
21	WASHINGTON BOULEVARD INTERCONNECT PLAN - SHEET 1 OF 3
22	WASHINGTON BOULEVARD INTERCONNECT PLAN - SHEET 2 OF 3
23	WASHINGTON BOULEVARD INTERCONNECT PLAN - SHEET 3 OF 3
24	WASHINGTON BOULEVARD INTERCONNECT SCHEMATIC
25	EXISTING MADISON STREET INTERCONNECT SCHEMATIC
26-28	JACKSON BOULEVARD AND RIDGELAND AVENUE -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
29-32	JACKSON BOULEVARD AND HIGHLAND AVENUE -EXISTING TRAFFIC SIGNAL PLAN -TRAFFIC SIGNAL REMOVAL PLAN -MODIFICATION PLAN -CABLE PLAN
33	JACKSON BOULEVARD INTERCONNECT PLAN
34	JACKSON BOULEVARD INTERCONNECT SCHEMATIC
35-37	RIDGELAND AVENUE AND AUGUSTA STREET -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
38-40	RIDGELAND AVENUE AND DIVISION STREET -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
41-43	RIDGELAND AVENUE AND LENOX STREET -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
44	RIDGELAND AVENUE INTERCONNECT PLAN
45	RIDGELAND AVENUE INTERCONNECT SCHEMATIC
46	EXISTING RIDGELAND AVENUE INTERCONNECT SCHEMATIC
47-49	OAK PARK AVENUE AND HARVARD STREET -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
50-52	OAK PARK AVENUE AND GARFIELD STREET -EXISTING TRAFFIC SIGNAL PLAN -MODIFICATION PLAN -CABLE PLAN
53	OAK PARK AVENUE INTERCONNECT PLAN
54	OAK PARK AVENUE INTERCONNECT SCHEMATIC
55-62	DISTRICT DETAILS HIGHWAY STANDARDS

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PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

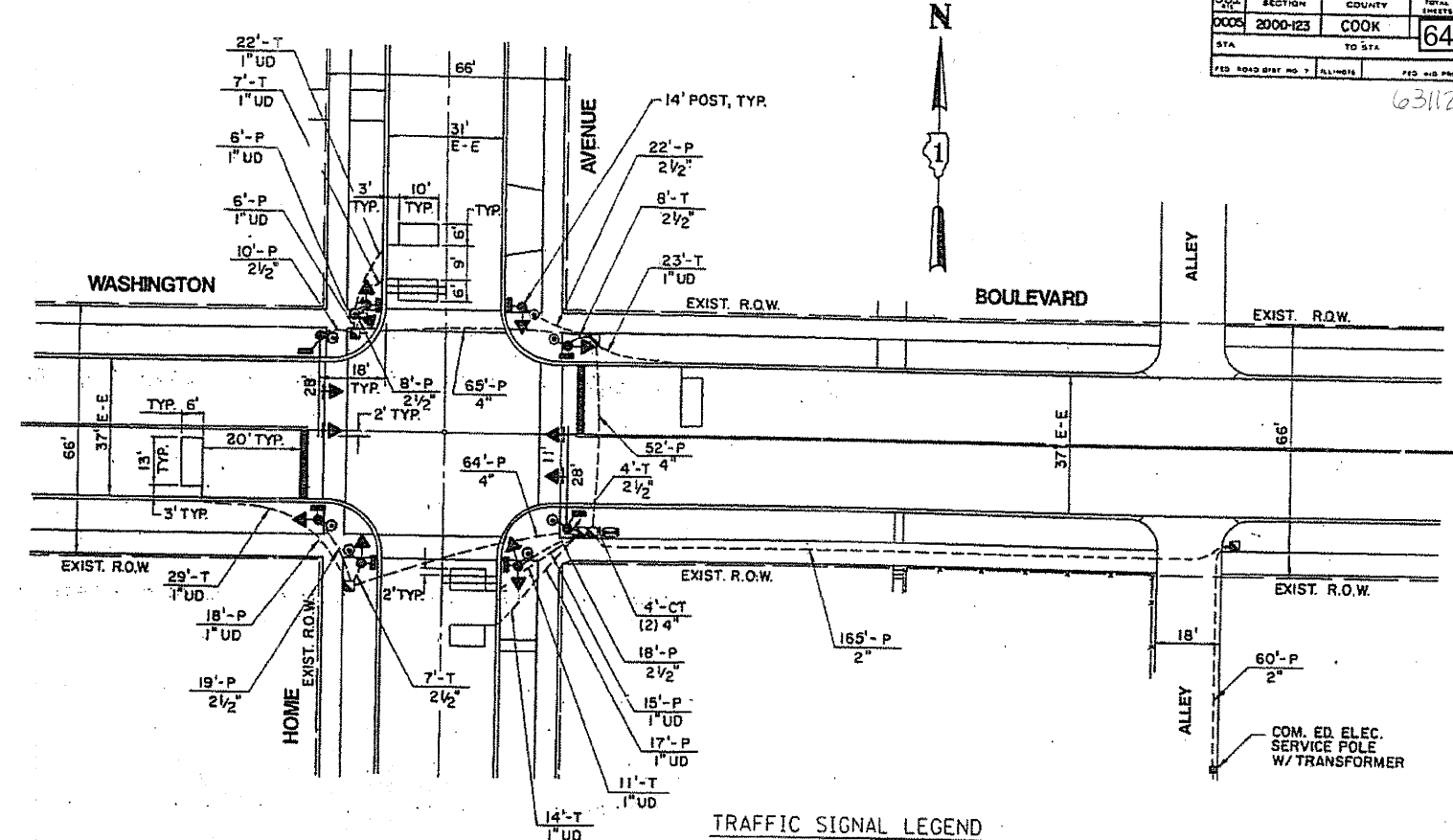
GENERAL NOTES, HIGHWAY STANDARDS, AND DISTRICT DETAILS

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	

SECTION	2000-123	COUNTY	COOK	TOTAL SHEETS	64	SHEET NO.	4
STA. TO STA.							
FED. ROAD DIST. NO. 1	ILLINOIS			FED. AID PROJECT	63112		

FOR INFORMATION ONLY



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]

FOR INFORMATION ONLY

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay item such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, median, 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 259 respectively.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION
WASHINGTON BOULEVARD AT
HOME AVENUE
 SCALE: 1" = 20'
 DATE DEC. 2000
 DRAWN BY J.H.E.
 DESIGNED BY J.H.E.
 CHECKED BY D.A.D.

63112

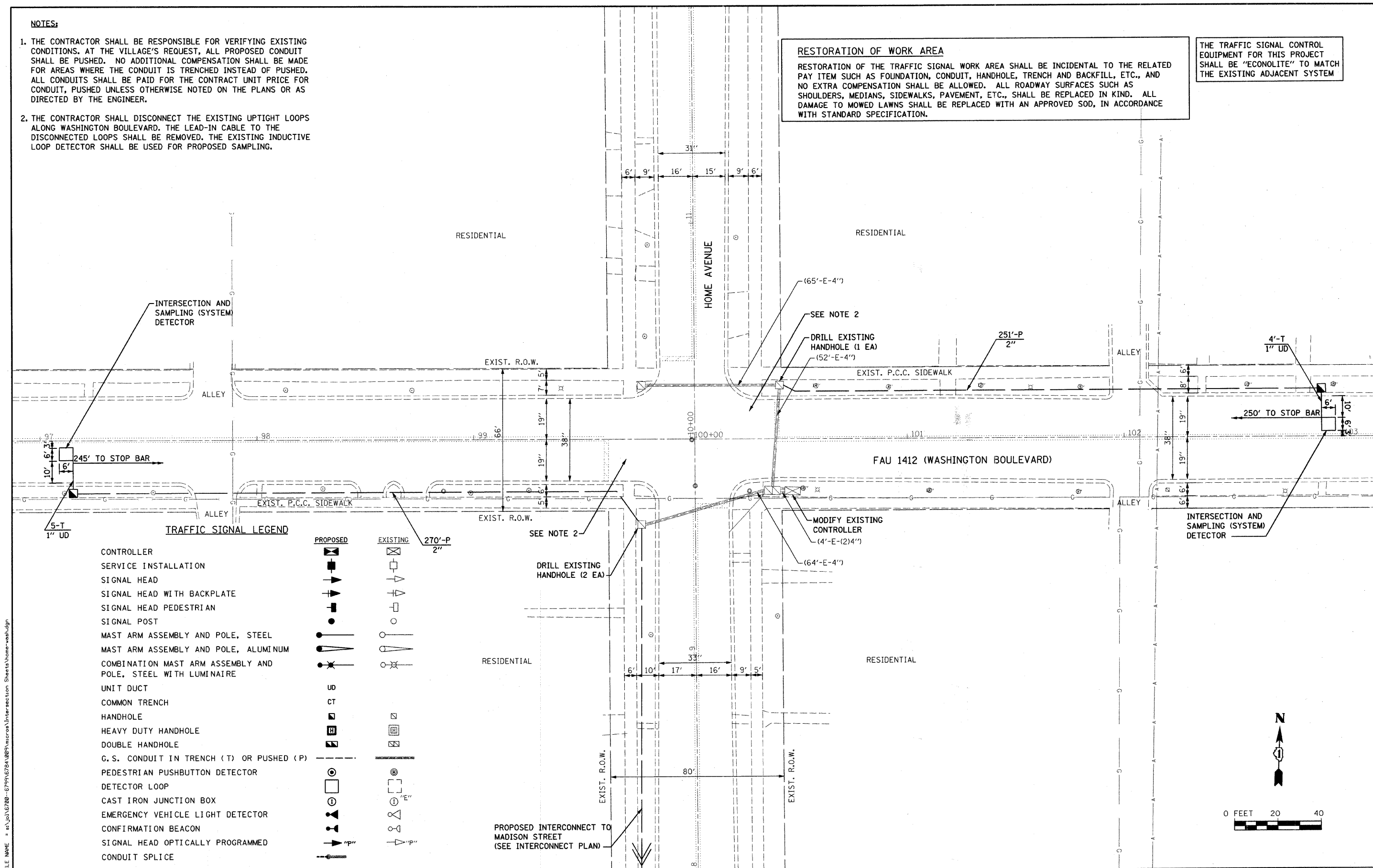
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL DISCONNECT THE EXISTING UPTIGHT LOOPS ALONG WASHINGTON BOULEVARD. THE LEAD-IN CABLE TO THE DISCONNECTED LOOPS SHALL BE REMOVED. THE EXISTING INDUCTIVE LOOP DETECTOR SHALL BE USED FOR PROPOSED SAMPLING.

RESTORATION OF WORK AREA

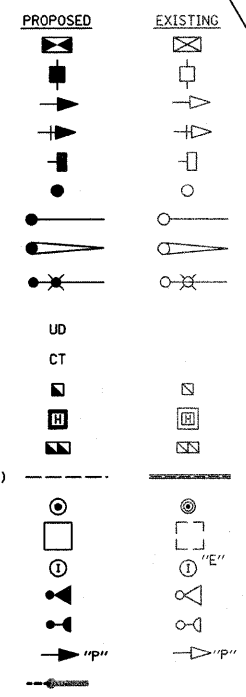
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC., SHALL BE REPLACED IN KIND.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

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

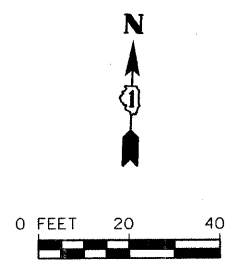


TRAFFIC SIGNAL LEGEND

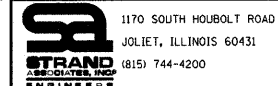
- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- SIGNAL HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE



PROPOSED INTERCONNECT TO MADISON STREET (SEE INTERCONNECT PLAN)



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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = adamm	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / IN.	CHECKED -	REVISOR -	REVISOR -
PLOT DATE = 5/26/2009	DATE -	REVISOR -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODIFICATION PLAN WASHINGTON BOULEVARD & HOME AVENUE			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	

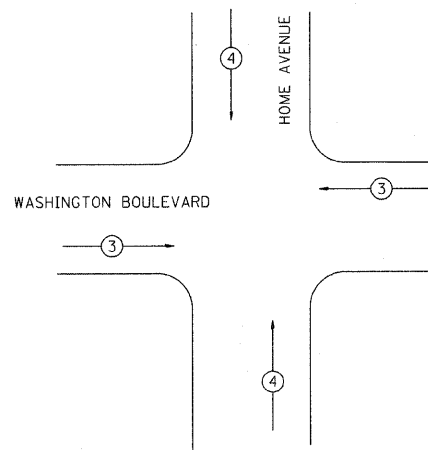
ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	521
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
DETECTOR LOOP, TYPE 1	FOOT	68
DRILL EXISTING HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	714
MODIFY EXISTING CONTROLLER	EACH	1
HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	177

CABLE PLAN LEGEND

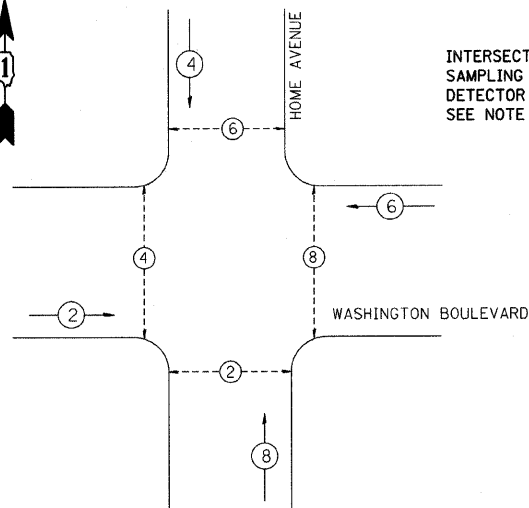
EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE LOOP
		MAGNETIC 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.
		GROUND CABLE 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

- NOTES:**
1. THE CONTRACTOR SHALL DISCONNECT THE EXISTING UPTIGHT LOOPS ALONG WASHINGTON BOULEVARD.
 2. THE CONTRACTOR SHALL CONNECT THE PROPOSED SAMPLING LOOP DETECTOR CABLE TO THE EXISTING INDUCTOR LOOP DETECTOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

EXISTING EMERGENCY VEHICLE PREEMPTION DIAGRAM



EXISTING CONTROLLER SEQUENCE



CONTROLLER SEQUENCE LEGEND

- DUAL ENTRY PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- PEDESTRIAN PHASE

(DRAWING NOT TO SCALE)

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

ALL TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET (TYP.)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	88
(GREEN)	14		15	0.25	53
ARROW	0		12	0.10	0
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0
FLASHER	0			0.50	0

ENERGY COSTS TO:		TOTAL =
		560

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT:

PHONE: _____

COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±L-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m±L-0.6m)
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = adamm
DESIGNED -
DRAWN -
CHECKED -
PLOT SCALE = 20.6800' / IN.
PLOT DATE = 5/26/2009

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN
WASHINGTON BOULEVARD & HOME AVENUE**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	

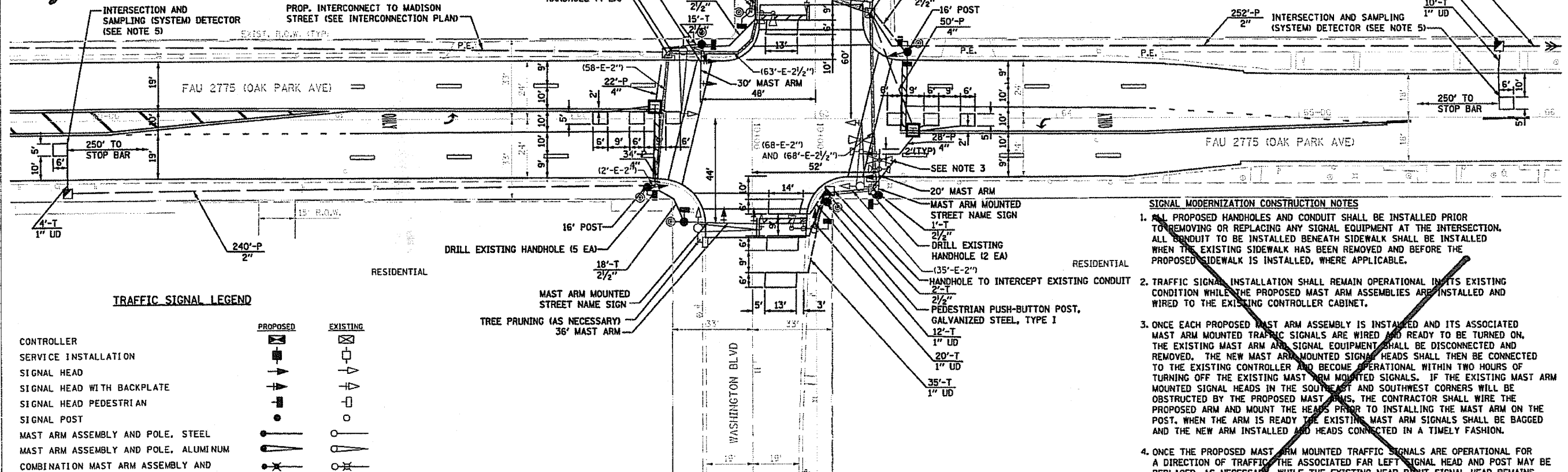
RESTORATION OF WORK AREA

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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

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

1. THE CONTRACTOR SHALL REPLACE ALL EXISTING SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS WITH L.E.D. (LIGHT EMITTING DIODE) SIGNAL HEADS.
2. INSTALL A 2' CONDUIT STUB FROM THE HANDHOLE FOR THE PROPOSED INTERCONNECTION.
3. PROPOSED LOCATION OF RELOCATED EVP EQUIPMENT
4. EXISTING SERVICE INSTALLATION SHALL BE REPLACED AT THE SAME LOCATION.
5. INTERSECTION AND SAMPLING (SYSTEM) DETECTION LOOPS SHALL BE INSTALLED IN THE TRAVEL LANE 2' FROM THE EDGE OF THE PARKING LANE.
6. ALL PROPOSED MAST ARMS SHALL HAVE A CIRCULAR CROSS SECTION.
7. THE MINIMUM SIGNAL GREEN TIME DURING MODERNIZATION OF THE TRAFFIC SIGNAL EQUIPMENT SHALL EQUAL THE PEDESTRIAN TIME.
8. THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT TO THE PROPOSED CONTROLLER CABINET.

FOR INFORMATION ONLY



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]

SIGNAL MODERNIZATION CONSTRUCTION NOTES

1. ALL PROPOSED HANDHOLES AND CONDUIT SHALL BE INSTALLED PRIOR TO REMOVING OR REPLACING ANY SIGNAL EQUIPMENT AT THE INTERSECTION. ALL CONDUIT TO BE INSTALLED BENEATH SIDEWALK SHALL BE INSTALLED WHEN THE EXISTING SIDEWALK HAS BEEN REMOVED AND BEFORE THE PROPOSED SIDEWALK IS INSTALLED, WHERE APPLICABLE.
2. TRAFFIC SIGNAL INSTALLATION SHALL REMAIN OPERATIONAL IN ITS EXISTING CONDITION WHILE THE PROPOSED MAST ARM ASSEMBLIES ARE INSTALLED AND WIRED TO THE EXISTING CONTROLLER CABINET.
3. ONCE EACH PROPOSED MAST ARM ASSEMBLY IS INSTALLED AND ITS ASSOCIATED MAST ARM MOUNTED TRAFFIC SIGNALS ARE WIRED AND READY TO BE TURNED ON, THE EXISTING MAST ARM AND SIGNAL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED. THE NEW MAST ARM MOUNTED SIGNAL HEADS SHALL THEN BE CONNECTED TO THE EXISTING CONTROLLER AND BECOME OPERATIONAL WITHIN TWO HOURS OF TURNING OFF THE EXISTING MAST ARM MOUNTED SIGNALS. IF THE EXISTING MAST ARM MOUNTED SIGNAL HEADS IN THE SOUTHEAST AND SOUTHWEST CORNERS WILL BE OBSTRUCTED BY THE PROPOSED MAST ARMS, THE CONTRACTOR SHALL WIRE THE PROPOSED ARM AND MOUNT THE HEADS PRIOR TO INSTALLING THE MAST ARM ON THE POST. WHEN THE ARM IS READY THE EXISTING MAST ARM SIGNALS SHALL BE BAGGED AND THE NEW ARM INSTALLED AND HEADS CONNECTED IN A TIMELY FASHION.
4. ONCE THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNALS ARE OPERATIONAL FOR A DIRECTION OF TRAFFIC THE ASSOCIATED FAR LEFT SIGNAL HEAD AND POST MAY BE REPLACED, AS NECESSARY, WHILE THE EXISTING NEAR RIGHT SIGNAL HEAD REMAINS OPERATIONAL. A MINIMUM OF THREE SIGNAL INDICATIONS SHALL BE OPERATIONAL AT ALL TIMES WITH THE EXCEPTION OF DURING STEP 3.
5. THE EXISTING NEAR RIGHT SIGNAL HEAD MAY BE REMOVED ONCE THREE PROPOSED SIGNAL INDICATIONS ARE AVAILABLE FOR A GIVEN DIRECTION OF TRAVEL.
6. ONCE ALL PROPOSED TRAFFIC SIGNAL EQUIPMENT HAS BEEN INSTALLED, THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET CAN BE REPLACED ON THE MODIFIED TYPE FOUNDATION ACCORDING TO THE SPECIFICATIONS.

FOR INFORMATION ONLY

	REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION
	NAME DATE	FAU 2775 OAK PARK AVENUE TRAFFIC SIGNAL MODIFICATION PLAN OAK PARK AVE & WASHINGTON BLVD
SCALE: VERT. HORIZ. DATE: 11/18/2008	DRAWN BY: JEM	CHECKED BY: JEM

TIME: 02:13 AM

DATE: 11/18/2008

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63112

TRAFFIC SIGNAL PLAN 11

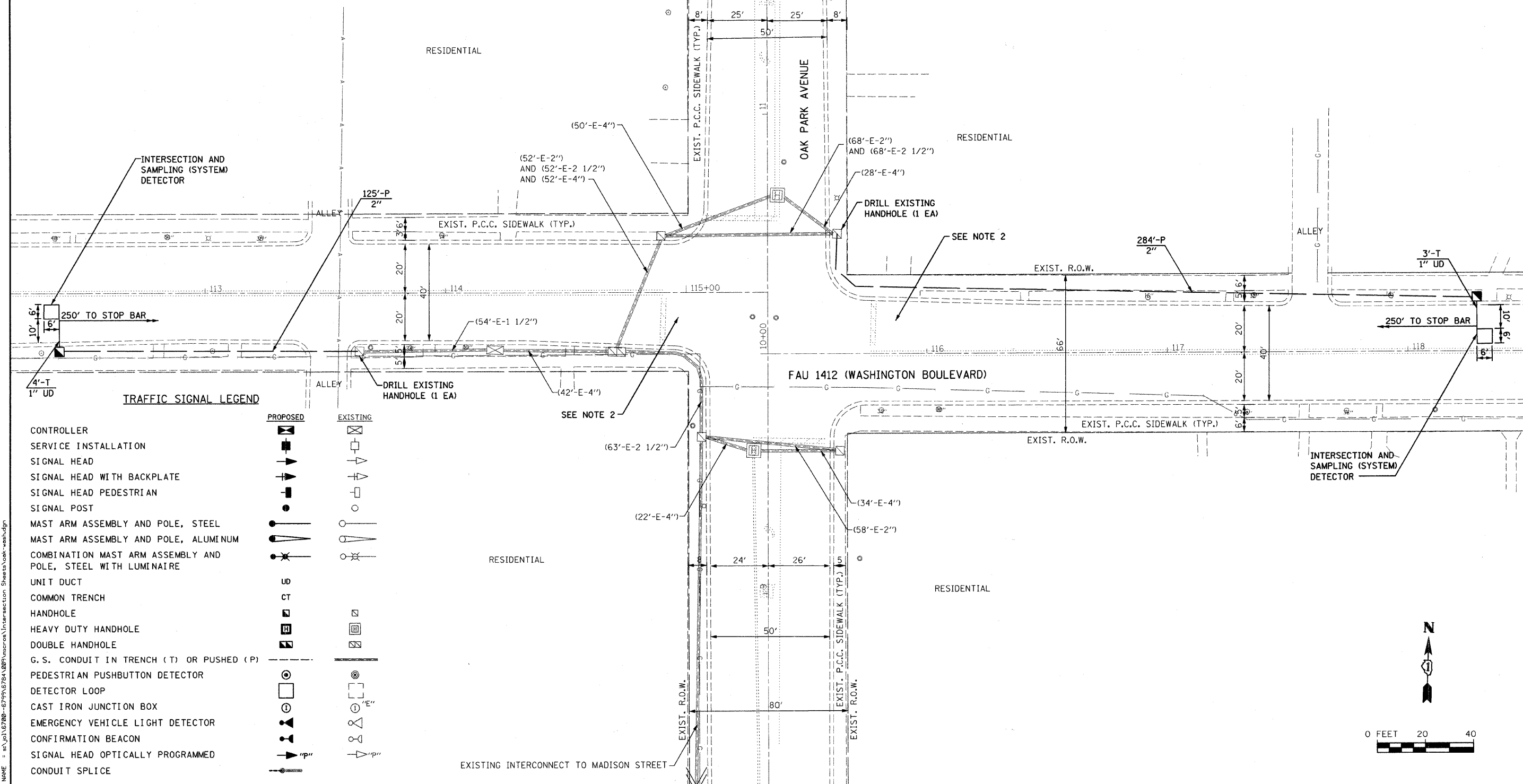
RESTORATION OF WORK AREA

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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

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

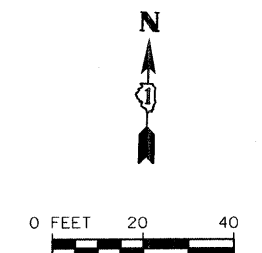
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL DISCONNECT THE EXISTING UPTIGHT LOOPS ALONG WASHINGTON BOULEVARD. THE LEAD-IN CABLE TO THE DISCONNECTED LOOPS SHALL BE REMOVED. THE EXISTING INDUCTIVE LOOP DETECTOR SHALL BE USED FOR PROPOSED SAMPLING.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]



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PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

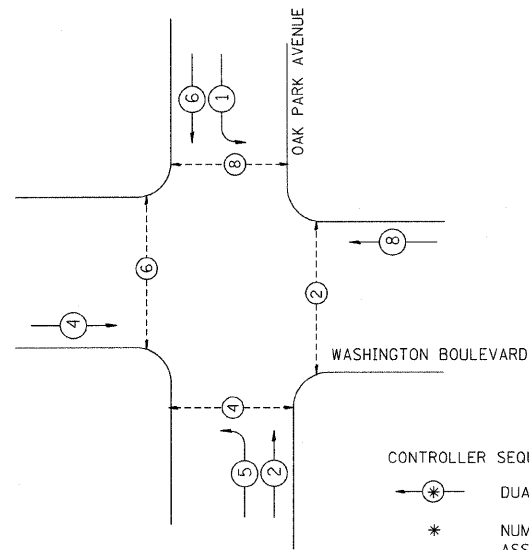
**TRAFFIC SIGNAL MODIFICATION PLAN
WASHINGTON BOULEVARD & OAK PARK AVENUE**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

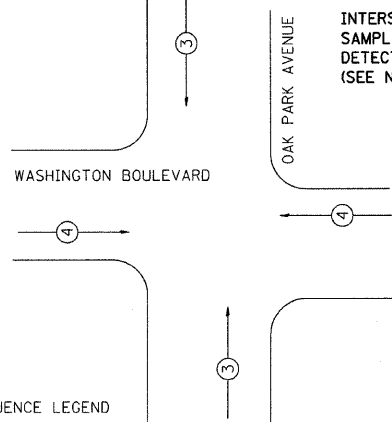
F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 8
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63112	

ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	409
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	710
DETECTOR LOOP, TYPE 1	FOOT	68
DRILL EXISTING HANDHOLE	EACH	2
HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	290

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION DIAGRAM



CONTROLLER SEQUENCE LEGEND

- ⊕ DUAL ENTRY PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ⊖ PEDESTRIAN PHASE

PHASE DESIGNATION DIAGRAM

(DRAWING NOT TO SCALE)

EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	↔

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.10	9.6
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0
FLASHER	1			0.50	0

ENERGY COSTS TO:		TOTAL =
		532

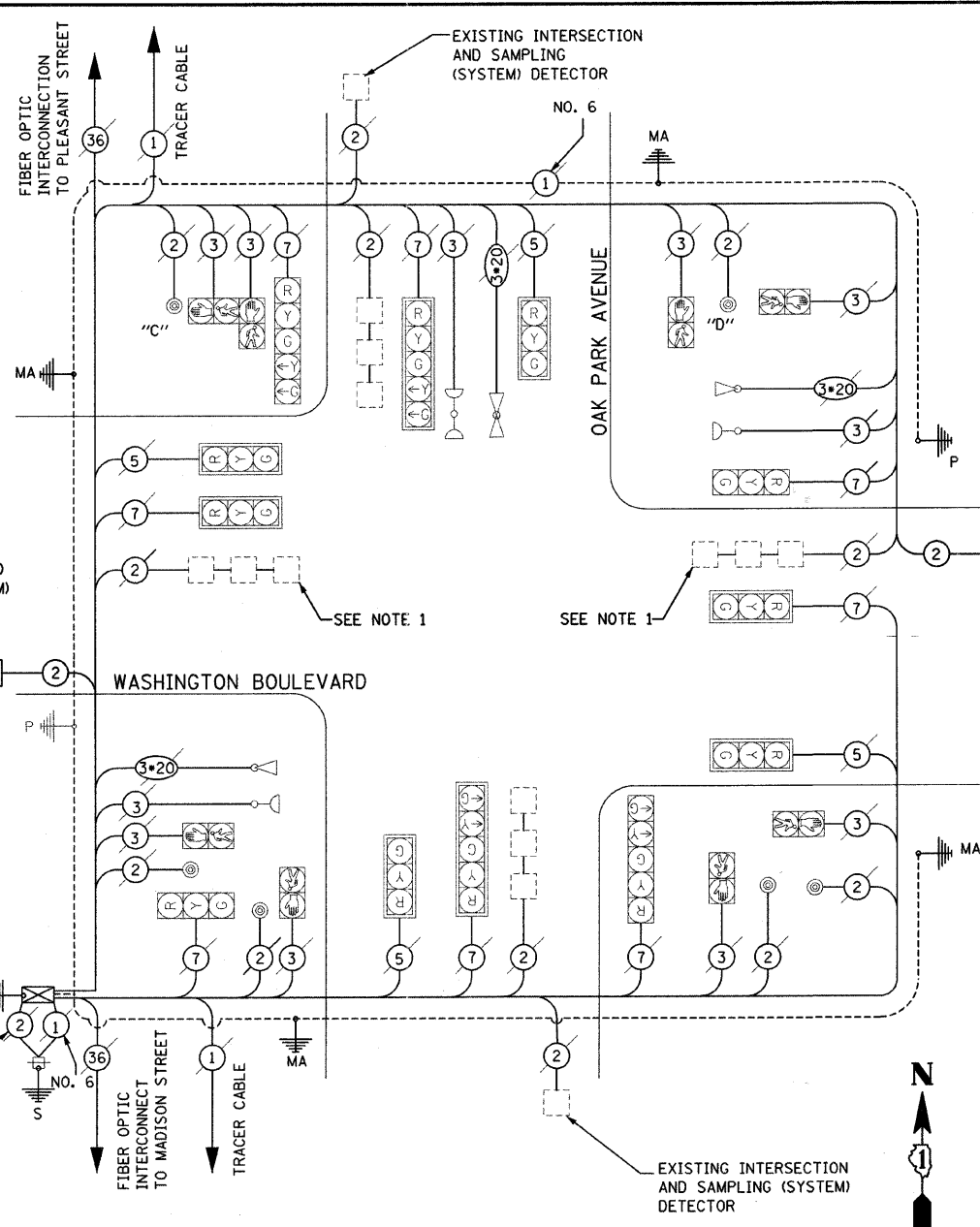
VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT:

PHONE:

COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)



CABLE PLAN LEGEND

- PROPOSED
- [G] 8" (200mm) TRAFFIC SIGNAL SECTION
 - [R] 12" (300mm) TRAFFIC SIGNAL SECTION
 - [W] 12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
 - [A] 12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
 - [C] CONTROLLER CABINET
 - [S] SERVICE INSTALLATION
 - [T] TELEPHONE INSTALLATION
 - [V] VEHICLE DETECTOR, INDUCTIVE LOOP
 - [M] MAGNETIC DETECTOR
 - [E] EMERGENCY VEHICLE LIGHT DETECTOR
 - [B] CONFIRMATION BEACON
 - [P] PUSHBUTTON DETECTOR
 - (2) DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
 - (1) GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
 - (36) FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
 - [R Y G] SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
 - [P] GROUND CABLE 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

- NOTES:
- THE CONTRACTOR SHALL DISCONNECT THE EXISTING UPTIGHT LOOPS ALONG WASHINGTON BOULEVARD.
 - THE CONTRACTOR SHALL CONNECT THE PROPOSED SAMPLING LOOP DETECTOR CABLE TO THE EXISTING INDUCTOR LOOP DETECTOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
WASHINGTON BOULEVARD & OAK PARK AVENUE

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

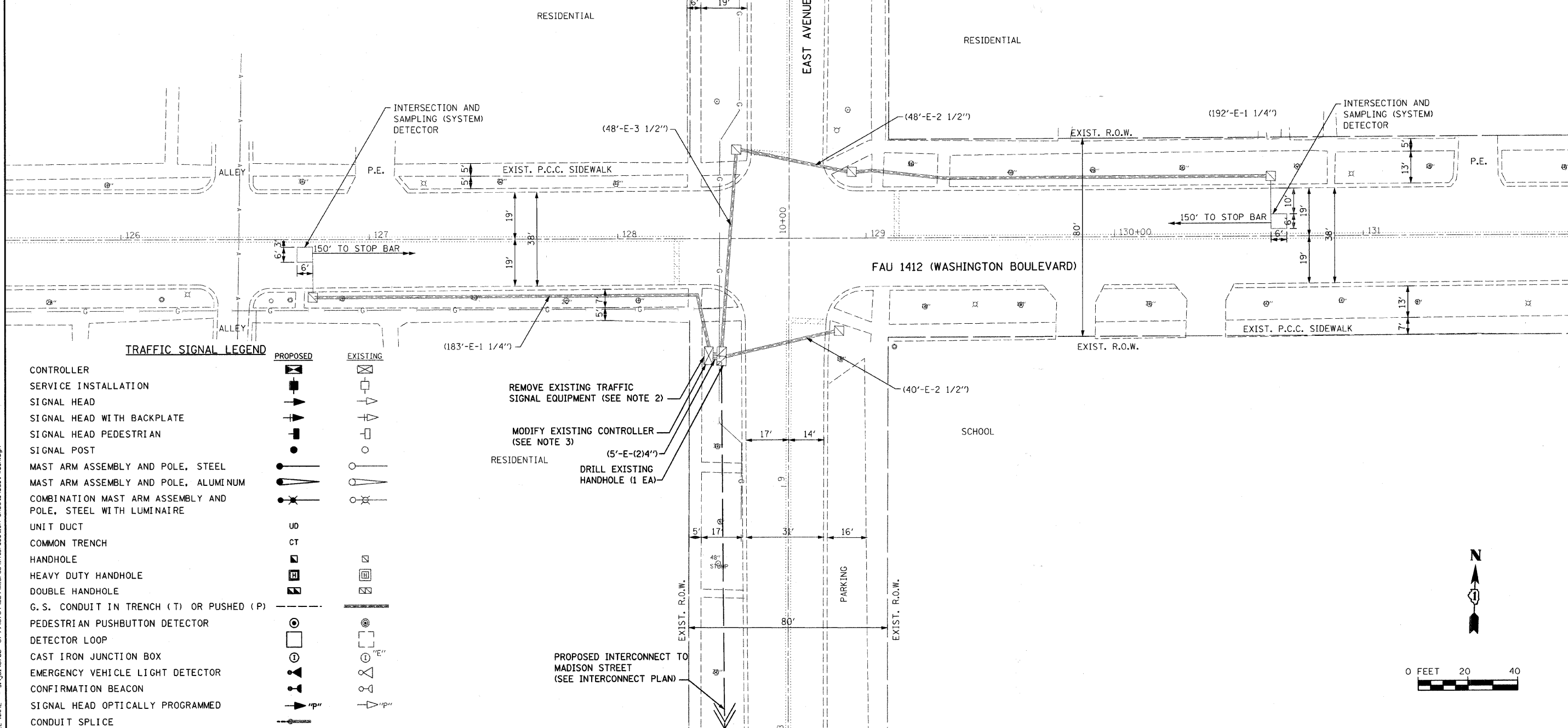
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	9	64
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63112	

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. REMOVE EXISTING CONTROLLER, CABINET TO REMAIN. THE CONTRACTOR SHALL REPLACE THE CONTROLLER AT LOMBARD AVENUE PRIOR TO REMOVING THE EXISTING CONTROLLER AT THE INTERSECTION OF WASHINGTON BOULEVARD AND EAST AVENUE. REPLACEMENT OF THE EXISTING CONTROLLER SHALL BE PERFORMED UNDER ALL-WAY STOP CONTROL UNTIL TRAFFIC SIGNAL OPERATION IS RESTORED.
3. EXISTING CONTROLLER REFERS TO ASC/2S-1000 CONTROLLER RELOCATED FROM LOMBARD AVENUE. (SEE TRAFFIC SIGNAL MODIFICATION PLAN FOR WASHINGTON BOULEVARD AND LOMBARD AVENUE.)

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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

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



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]

- REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (SEE NOTE 2)
- MODIFY EXISTING CONTROLLER (SEE NOTE 3)
- DRILL EXISTING HANDHOLE (1 EA)
- PROPOSED INTERCONNECT TO MADISON STREET (SEE INTERCONNECT PLAN)

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PLOT SCALE = 20,0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL REMOVAL & MODIFICATION PLAN
 WASHINGTON BOULEVARD & EAST AVENUE**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	11
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63112	

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1



EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR (TYP.)

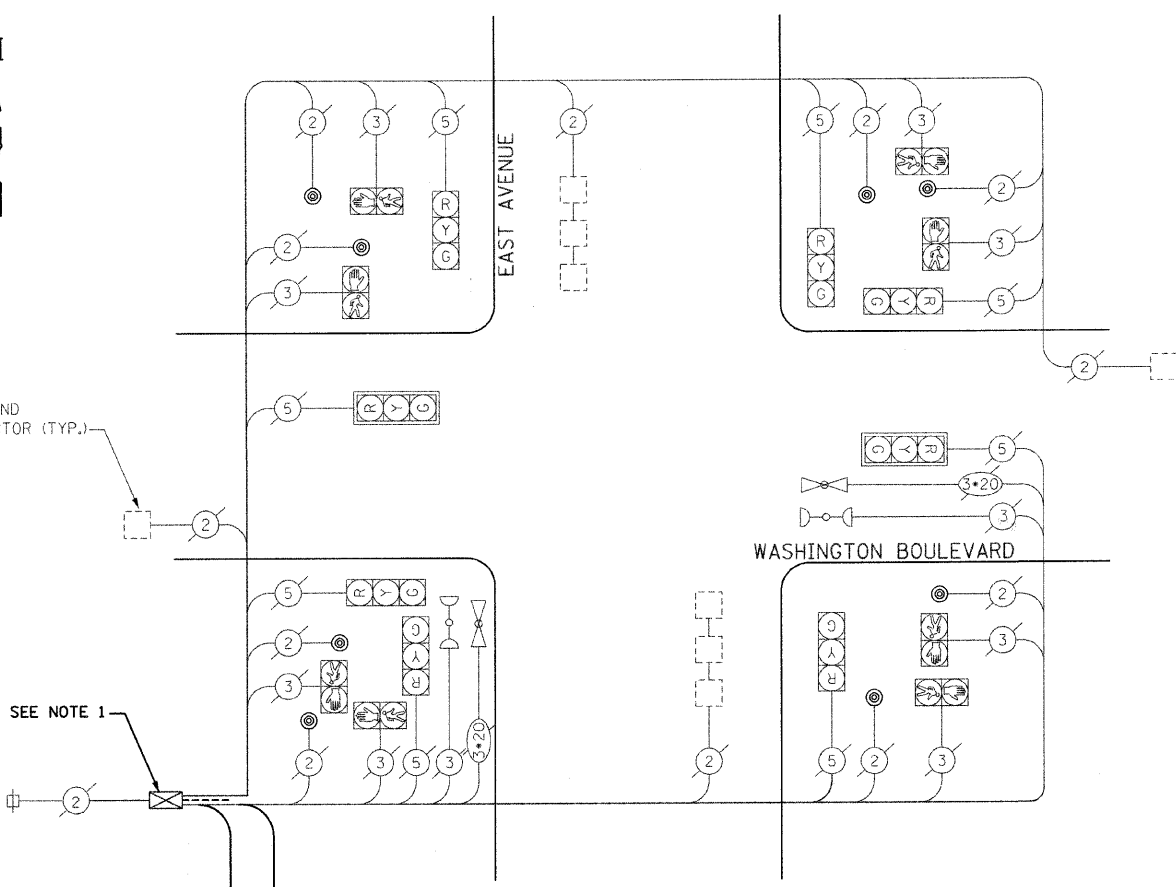
SEE NOTE 1

ALL TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET (TYP.)

NOTES:
 1. EXISTING CONTROLLER REFERS TO ASC/2S-1000 CONTROLLER RELOCATED FROM LOMBARD AVENUE. (SEE TRAFFIC SIGNAL MODIFICATION PLAN FOR WASHINGTON BOULEVARD AND LOMBARD AVENUE.)

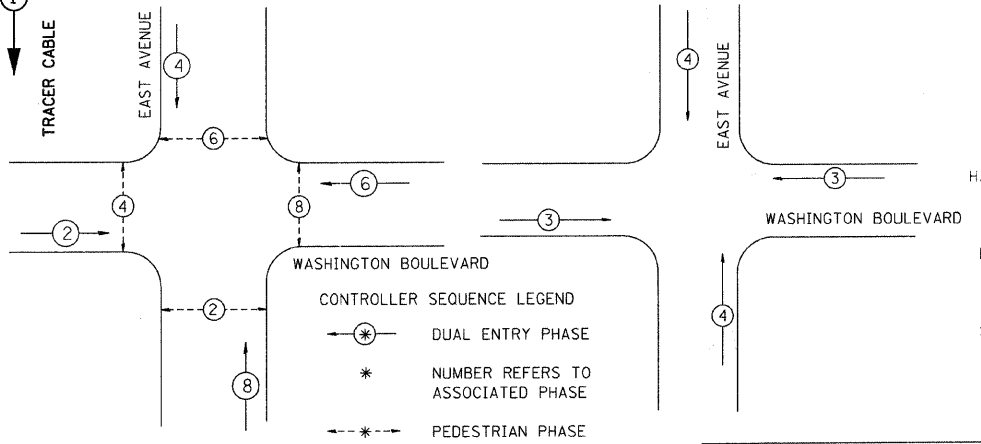
CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE 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-MMI2F SMI2F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION



CONTROLLER SEQUENCE

EXISTING EMERGENCY VEHICLE PREEMPTION DIAGRAM



PHASE DESIGNATION DIAGRAM

(DRAWING NOT TO SCALE)

EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		%OPERATION	
SIGNAL (RED)	8	INCAND.	LED	0.50	68
(YELLOW)	8			0.25	50
(GREEN)	8			0.25	30
ARROW	0			0.10	0
PED. SIGNAL	8			1.00	200
CONTROLLER	1			1.00	100
ILLUM. SIGN				0.05	0

ENERGY COSTS TO: TOTAL = 448

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT: _____
 PHONE: _____
 COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'= (6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
30" (600 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRICAL SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



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PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

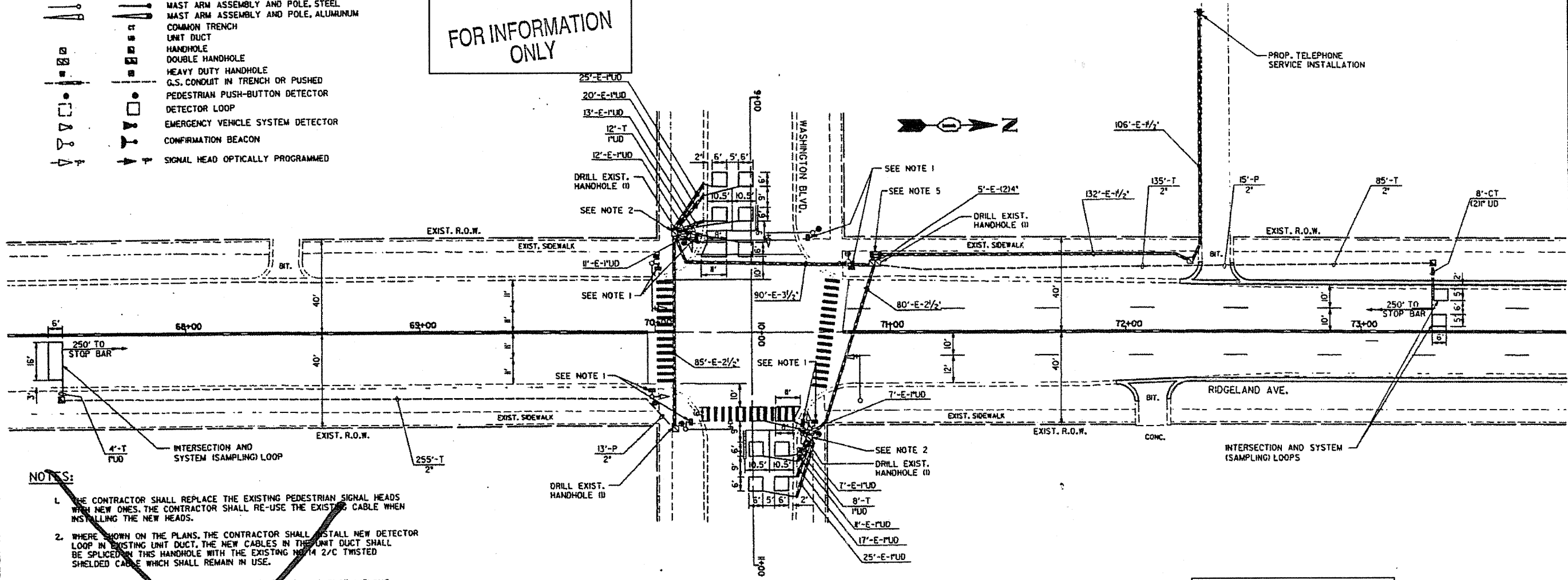
CABLE PLAN WASHINGTON BOULEVARD & EAST AVENUE			
SCALE: AS SHOWN	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				CONTRACT NO. 63112

TRAFFIC SIGNAL LEGEND

EXIST.	PROP.	
		CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, ALUMINUM
		COMMON TRENCH
		UNIT DUCT
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		PEDESTRIAN PUSH-BUTTON DETECTOR
		DETECTOR LOOP
		EMERGENCY VEHICLE SYSTEM DETECTOR
		CONFIRMATION BEACON
		SIGNAL HEAD OPTICALLY PROGRAMMED

FOR INFORMATION ONLY



NOTES:

- THE CONTRACTOR SHALL REPLACE THE EXISTING PEDESTRIAN SIGNAL HEADS WITH NEW ONES. THE CONTRACTOR SHALL RE-USE THE EXISTING CABLE WHEN INSTALLING THE NEW HEADS.
- WHERE SHOWN ON THE PLANS, THE CONTRACTOR SHALL INSTALL NEW DETECTOR LOOP IN EXISTING UNIT DUCT. THE NEW CABLES IN THE UNIT DUCT SHALL BE SPLICED IN THIS HANDHOLE WITH THE EXISTING HEAVY 2/C TWISTED SHIELDED CABLE WHICH SHALL REMAIN IN USE.
- THE CONTRACTOR SHALL INSTALL ALL CONDUIT AND UNIT DUCT WITHOUT DAMAGING ANY OF THE EXISTING SIDEWALK. ANY SIDEWALK GETS DAMAGED, THE CONTRACTOR SHALL REMOVE AND REPLACE THE SIDEWALK AT NO ADDITIONAL COSTS DIRECTED BY THE ENGINEER.
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE VILLAGE OF OAK PARK:
 - 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
 - 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
 ALL WORK ASSOCIATED WITH THE REMOVAL AND STORAGE OF ALL OF THE ABOVE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT".
- THE CONTRACTOR SHALL INSTALL A NEW MASTER CONTROLLER IN THE EXISTING TYPE IV CABINET. THE CONTRACTOR SHALL ALSO INSTALL A NEW TELEPHONE SERVICE INSTALLATION. ALL WORK ASSOCIATED WITH PROVIDING AND INSTALLING EVERYTHING NECESSARY TO OPERATE THE TRAFFIC SIGNAL SYSTEM SHALL, INCLUDING THE PHONE DROP SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "MASTER CONTROLLER" (SEE INTERCONNECT SCHEDULE OF QUANTITIES)
- THE CONTRACTOR SHALL ASSURE THAT THE INSTALLATION OF ALL PROPOSED CONDUIT SHALL MEET THE "PARKWAY AUGERING SPECIFICATIONS" (SEE TRAFFIC SIGNAL SPECIFICATIONS).

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREAS 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.

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

K&E KAM ENGINEERING, INC.
CONSULTING ENGINEERS
707A Davis Road, Suite 203
Evanston, Illinois 60123-1369

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION
RIDGELAND AVE. @ WASHINGTON BLVD.

SCALE: 1"=20'
DATE: 09-04-98
DRAWN BY: CSL
CHECKED BY: WSA

63112

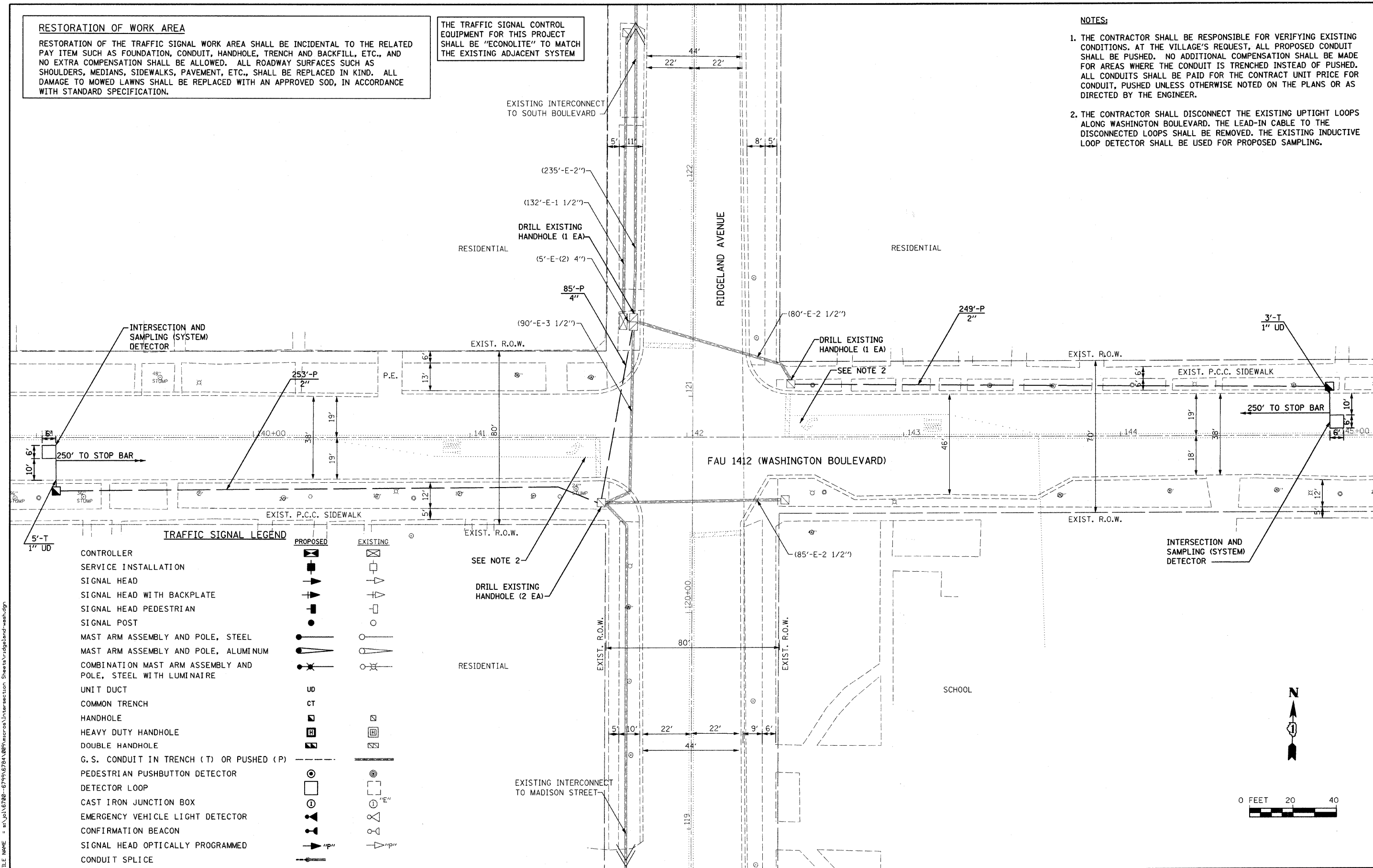
RESTORATION OF WORK AREA

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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

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

NOTES:

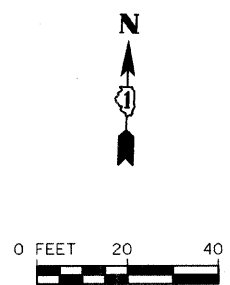
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL DISCONNECT THE EXISTING UPTIGHT LOOPS ALONG WASHINGTON BOULEVARD. THE LEAD-IN CABLE TO THE DISCONNECTED LOOPS SHALL BE REMOVED. THE EXISTING INDUCTIVE LOOP DETECTOR SHALL BE USED FOR PROPOSED SAMPLING.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	UD	[Symbol]
COMMON TRENCH	CT	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	T/P	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]

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USER NAME = adamm	DESIGNED -	REVISED -
PLOT SCALE = 20,000' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

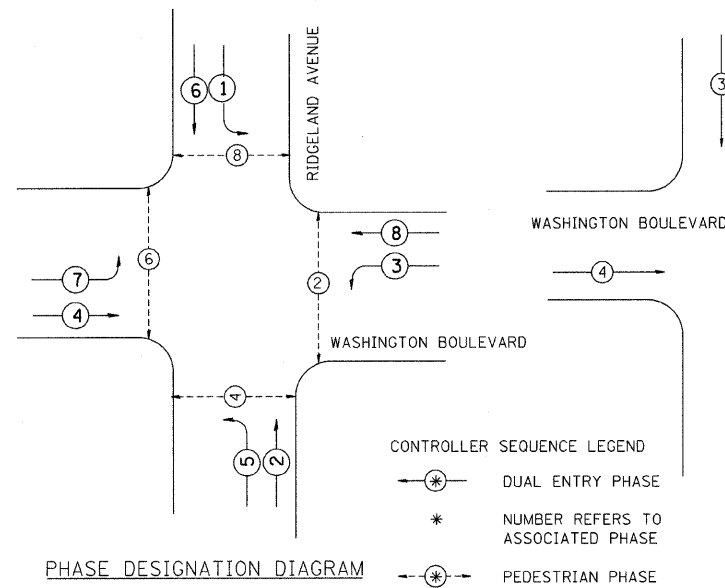
**TRAFFIC SIGNAL MODIFICATION PLAN
WASHINGTON BOULEVARD & RIDGELAND AVENUE**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

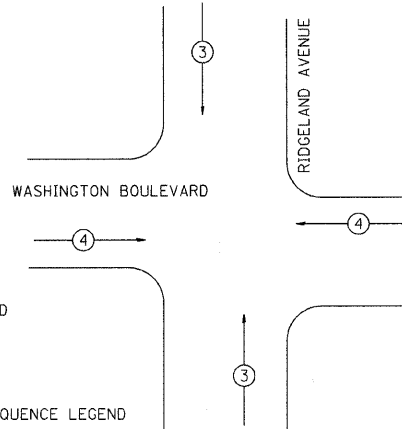
F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	

ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	502
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14, 1 PAIR	FOOT	737
DETECTOR LOOP, TYPE 1	FOOT	68
DRILL EXISTING HANDHOLE	EACH	4
HANDHOLE	EACH	2
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	85
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	232

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION DIAGRAM



CONTROLLER SEQUENCE LEGEND

- DUAL ENTRY PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- PEDESTRIAN PHASE

(DRAWING NOT TO SCALE)

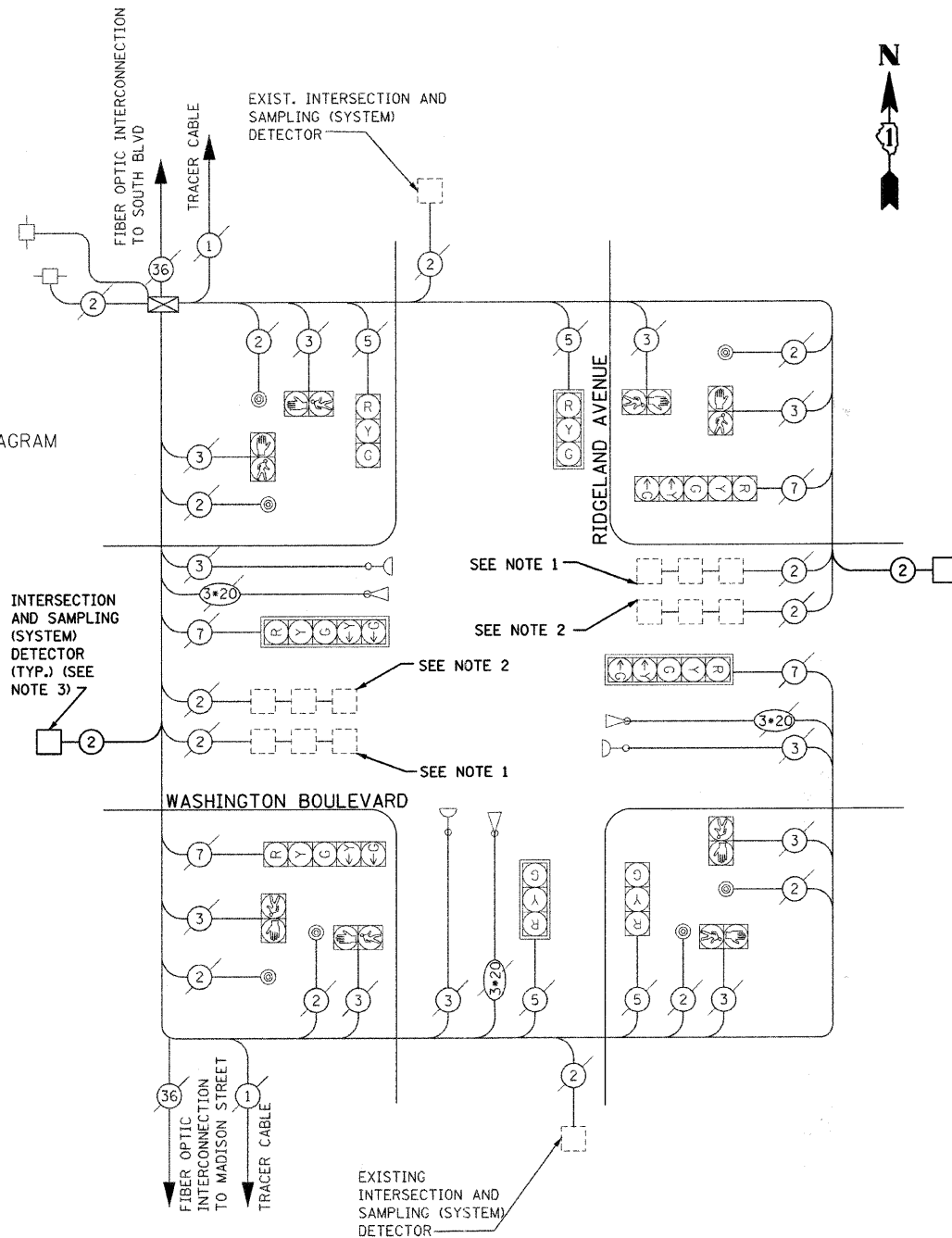
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	←

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. LED	%OPERATION		
SIGNAL (RED)	8	17	0.50	68	
(YELLOW)	8	25	0.25	50	
(GREEN)	8	15	0.25	30	
ARROW	8	12	0.10	9.6	
PED. SIGNAL	8	25	1.00	200	
CONTROLLER	1	100	1.00	100	
ILLUM. SIGN			0.05	0	
FLASHER	3		0.50	0	

ENERGY COSTS TO:		TOTAL =
VILLAGE OF OAK PARK		458

ENERGY SUPPLY CONTACT:
 PHONE: _____
 COMPANY: Commonwealth Edison

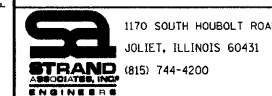
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m±L-0.6m)
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)



CABLE PLAN LEGEND

EXISTING	PROPOSED	
(G)	(6)	8" (200mm) TRAFFIC SIGNAL SECTION
(R)	(R)	12" (300mm) TRAFFIC SIGNAL SECTION
(W)	(W)	12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
(P)	(P)	12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
(C)	(C)	CONTROLLER CABINET
(S)	(S)	SERVICE INSTALLATION
(T)	(T)	TELEPHONE INSTALLATION
(V)	(V)	VEHICLE DETECTOR, INDUCTIVE LOOP
(M)	(M)	MAGNETIC DETECTOR
(E)	(E)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	CONFIRMATION BEACON
(D)	(D)	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)
(36)	(36)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
(R)	(R)	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
(H/C)	(H/C)	GROUND CABLE 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

- NOTE:**
- THE CONTRACTOR SHALL DISCONNECT THE EXISTING UPTIGHT DETECTOR LOOPS ALONG WASHINGTON BOULEVARD.
 - EXISTING DETECTOR LOOPS INSTALLED IN THE LEFT TURN LANE SHALL REMAIN.
 - THE CONTRACTOR SHALL CONNECT THE PROPOSED SAMPLING LOOP DETECTOR CABLE TO THE EXISTING INDUCTOR LOOP DETECTOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



USER NAME = adamm	DESIGNED -	REVISED -
PLOT SCALE = 20,6800' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

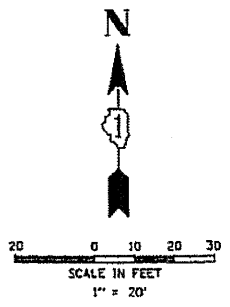
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
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CABLE PLAN	
WASHINGTON BOULEVARD & RIDGELAND AVENUE	
SCALE: AS SHOWN	SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	15
CONTRACT NO. 63112				

FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
---------------------	---------------------------

OAK PARK

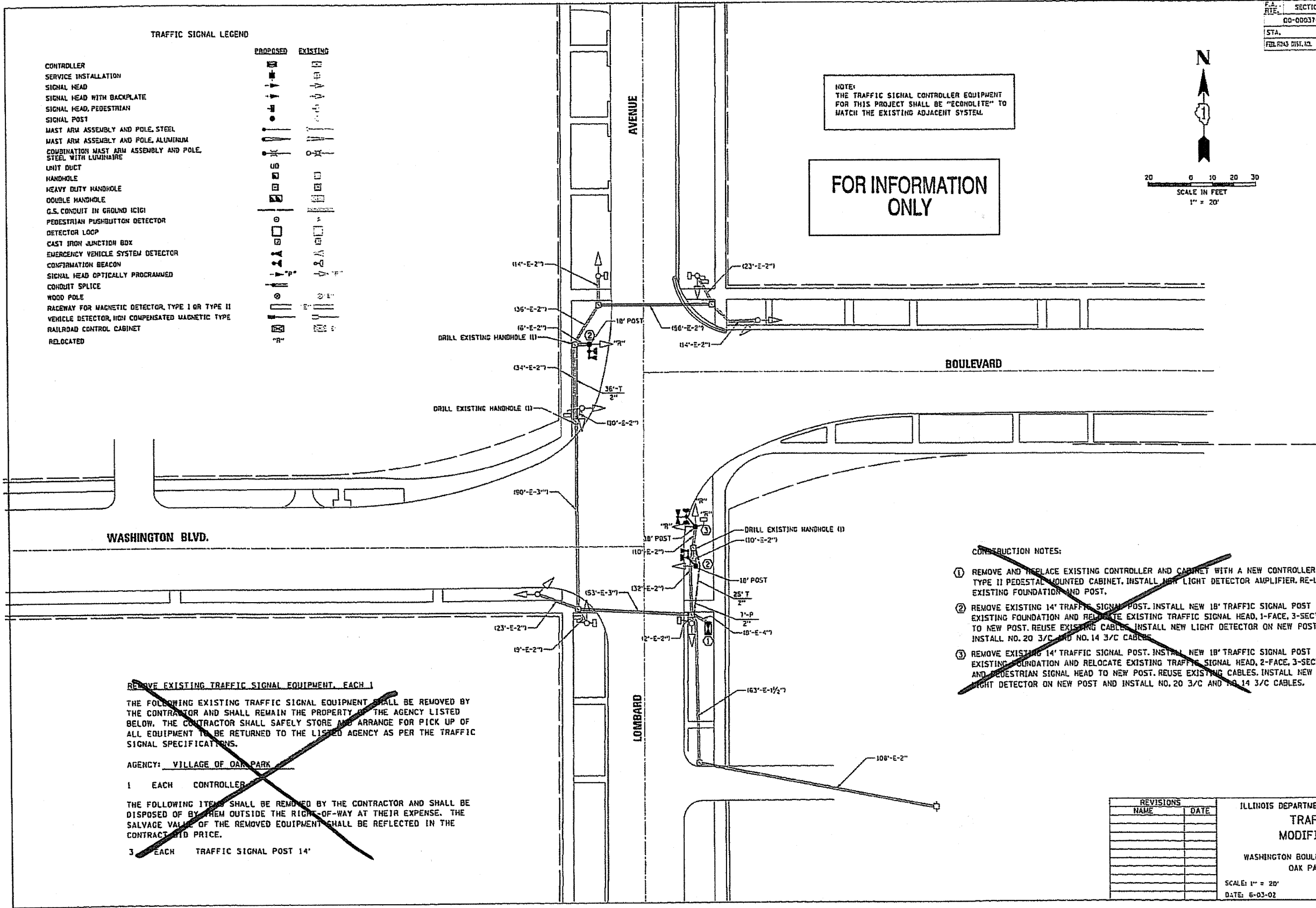


TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND ICIGI		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, HIGH COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
RELOCATED		

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

FOR INFORMATION ONLY



CONSTRUCTION NOTES:

- ① REMOVE AND REPLACE EXISTING CONTROLLER AND CABINET WITH A NEW CONTROLLER AND TYPE II PEDESTAL MOUNTED CABINET. INSTALL NEW LIGHT DETECTOR AMPLIFIER. RE-USE EXISTING FOUNDATION AND POST.
- ② REMOVE EXISTING 14' TRAFFIC SIGNAL POST. INSTALL NEW 18' TRAFFIC SIGNAL POST ON EXISTING FOUNDATION AND RELOCATE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION TO NEW POST. REUSE EXISTING CABLES. INSTALL NEW LIGHT DETECTOR ON NEW POST AND INSTALL NO. 20 3/C AND NO. 14 3/C CABLES.
- ③ REMOVE EXISTING 14' TRAFFIC SIGNAL POST. INSTALL NEW 18' TRAFFIC SIGNAL POST ON EXISTING FOUNDATION AND RELOCATE EXISTING TRAFFIC SIGNAL HEAD, 2-FACE, 3-SECTION, AND PEDESTRIAN SIGNAL HEAD TO NEW POST. REUSE EXISTING CABLES. INSTALL NEW LIGHT DETECTOR ON NEW POST AND INSTALL NO. 20 3/C AND NO. 14 3/C CABLES.

~~REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, EACH 1~~

~~THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.~~

~~AGENCY: VILLAGE OF OAK PARK~~

~~1 EACH CONTROLLER~~

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

~~3 EACH TRAFFIC SIGNAL POST 14'~~

REVISIONS	
NAME	DATE

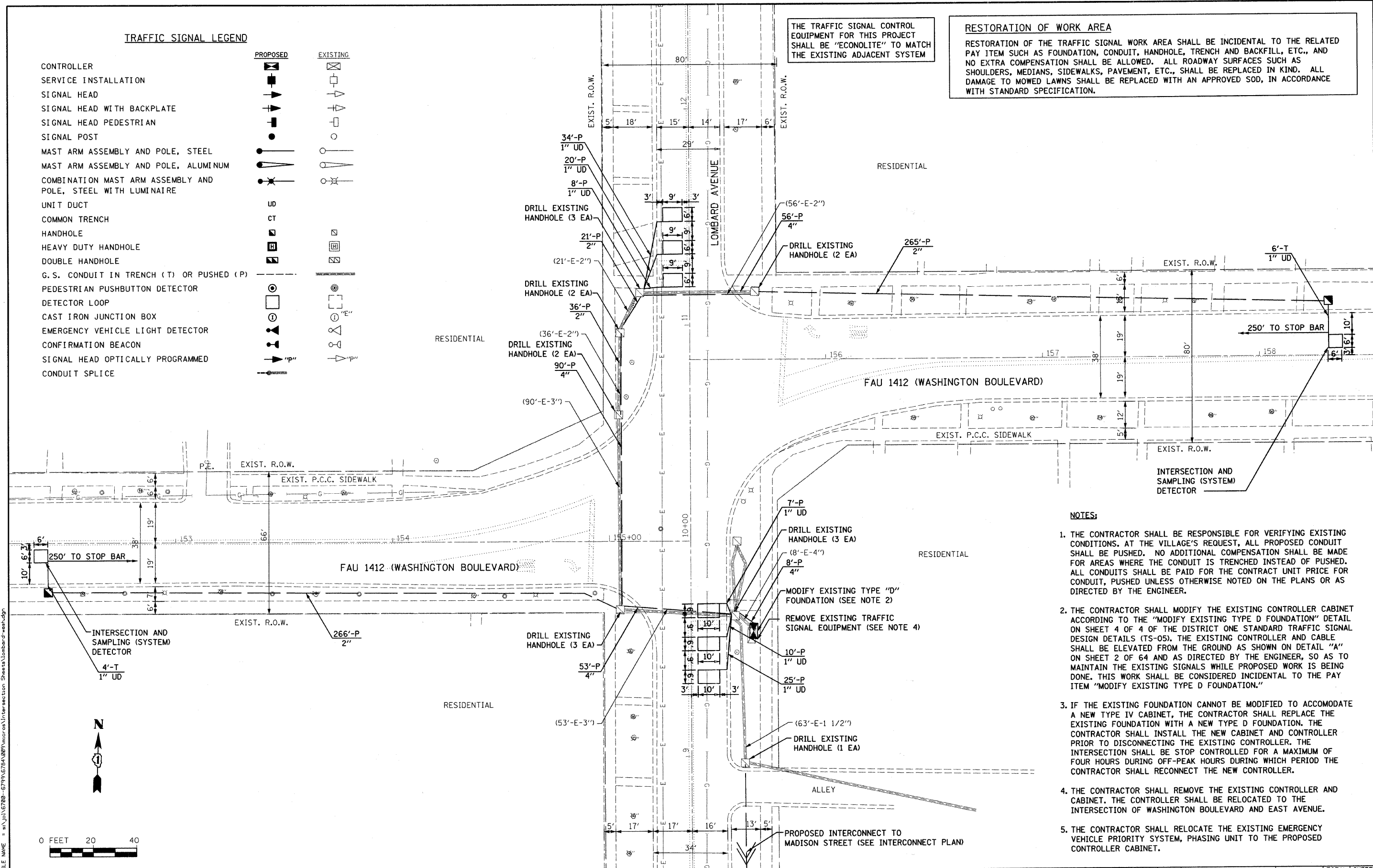
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC SIGNAL
 MODIFICATION PLAN**
 WASHINGTON BOULEVARD AND LOMBARD AVENUE
 OAK PARK, ILLINOIS
 SCALE: 1" = 20'
 DATE: 6-03-02
 DRAWN BY: FCP
 DESIGNED BY: SJP
 CHECKED BY: CMZ

TRAFFIC SIGNAL LEGEND

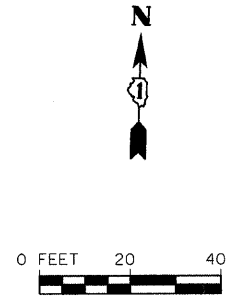
	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" 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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

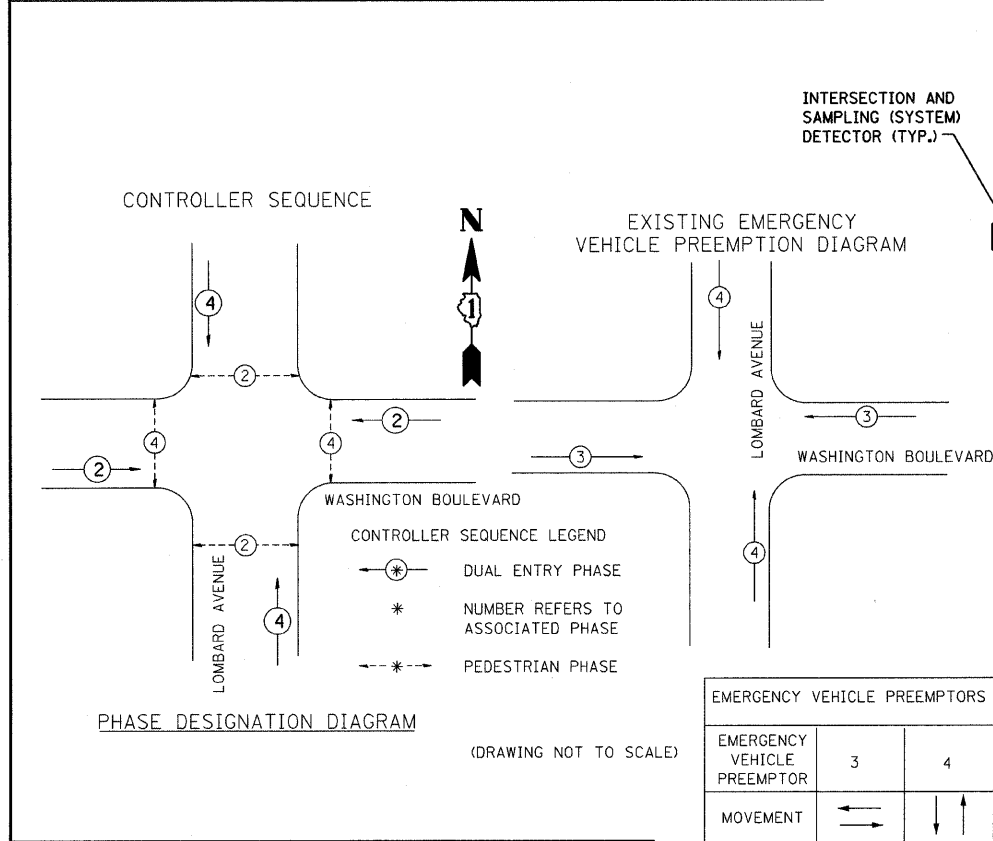


- NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 2. THE CONTRACTOR SHALL MODIFY THE EXISTING CONTROLLER CABINET ACCORDING TO THE "MODIFY EXISTING TYPE D FOUNDATION" DETAIL ON SHEET 4 OF 4 OF THE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05). THE EXISTING CONTROLLER AND CABLE SHALL BE ELEVATED FROM THE GROUND AS SHOWN ON DETAIL "A" ON SHEET 2 OF 64 AND AS DIRECTED BY THE ENGINEER, SO AS TO MAINTAIN THE EXISTING SIGNALS WHILE PROPOSED WORK IS BEING DONE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "MODIFY EXISTING TYPE D FOUNDATION."
 3. IF THE EXISTING FOUNDATION CANNOT BE MODIFIED TO ACCOMMODATE A NEW TYPE IV CABINET, THE CONTRACTOR SHALL REPLACE THE EXISTING FOUNDATION WITH A NEW TYPE D FOUNDATION. THE CONTRACTOR SHALL INSTALL THE NEW CABINET AND CONTROLLER PRIOR TO DISCONNECTING THE EXISTING CONTROLLER. THE INTERSECTION SHALL BE STOP CONTROLLED FOR A MAXIMUM OF FOUR HOURS DURING OFF-PEAK HOURS DURING WHICH PERIOD THE CONTRACTOR SHALL RECONNECT THE NEW CONTROLLER.
 4. THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET. THE CONTROLLER SHALL BE RELOCATED TO THE INTERSECTION OF WASHINGTON BOULEVARD AND EAST AVENUE.
 5. THE CONTRACTOR SHALL RELOCATE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO THE PROPOSED CONTROLLER CABINET.



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ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	588
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	207
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL- ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14, 1 PAIR	FOOT	938
DETECTOR LOOP, TYPE 1	FOOT	258
INDUCTIVE LOOP DETECTOR	EACH	4
DRILL EXISTING HANDHOLE	EACH	15
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

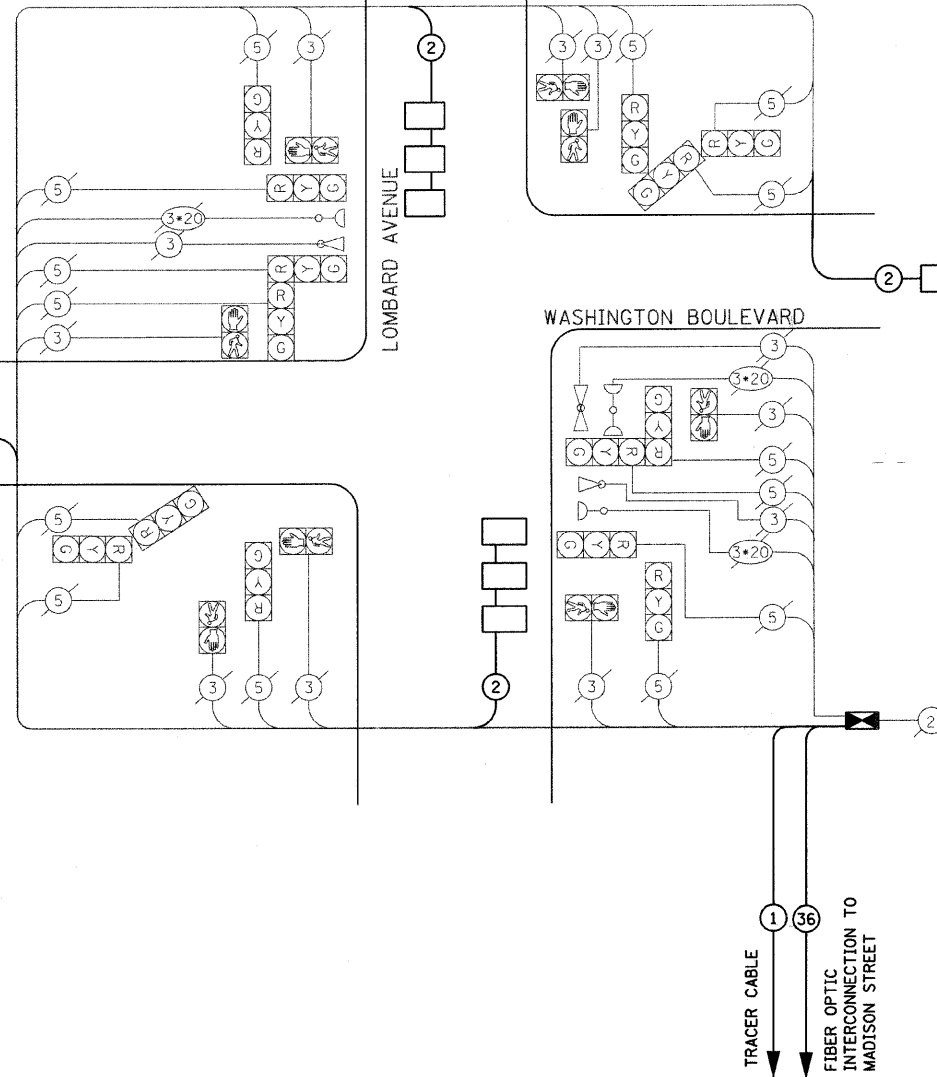
TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	88
(GREEN)	14		15	0.25	53
ARROW	0		12	0.10	0
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0
FLASHER	3			0.50	0

ENERGY COSTS TO: TOTAL = 560

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT:
 PHONE:
 COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'=(6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)



CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE 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.
		GROUND CABLE 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

ALL TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET (TYP.)

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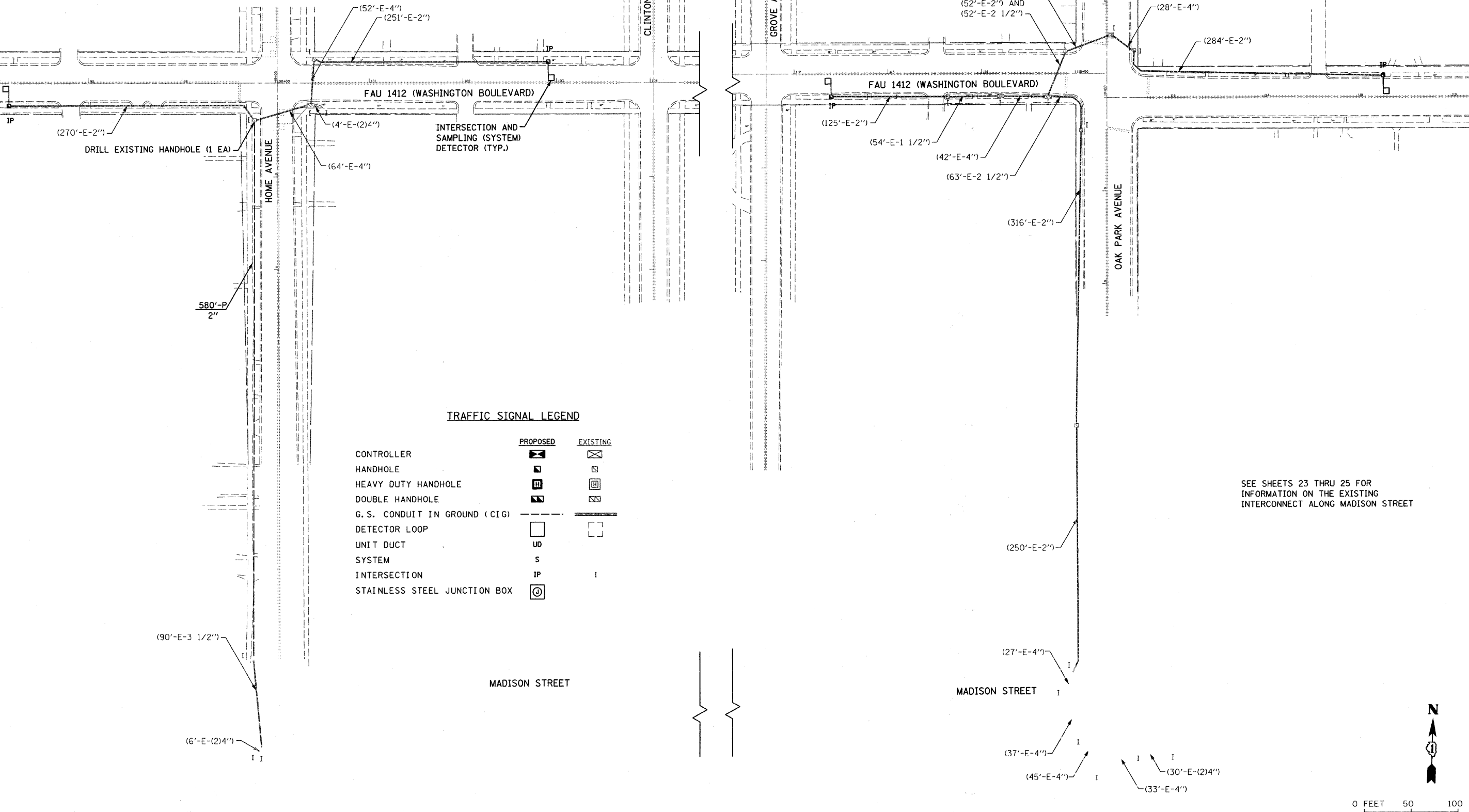
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN
 WASHINGTON BOULEVARD & LOMBARD AVENUE

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	18
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	

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



SEE SHEETS 23 THRU 25 FOR INFORMATION ON THE EXISTING INTERCONNECT ALONG MADISON STREET

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
UNIT DUCT		
SYSTEM		
INTERSECTION		
STAINLESS STEEL JUNCTION BOX		

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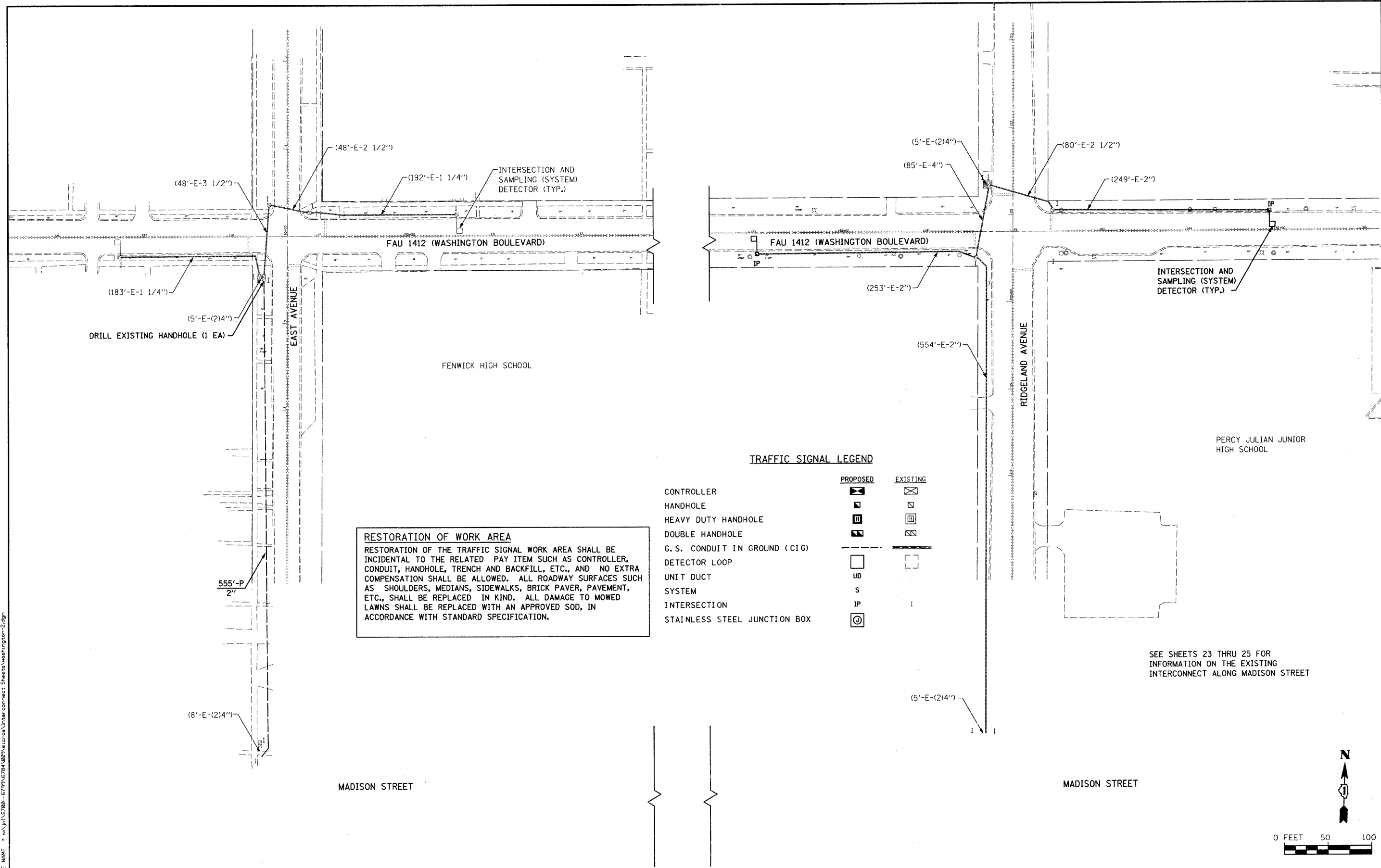
STRAND ASSOCIATES, INC.
 ENGINEERS
 1170 SOUTH HOUBOLT ROAD
 JULIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = adamn	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON BOULEVARD INTERCONNECT PLAN
 SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 19
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63112				

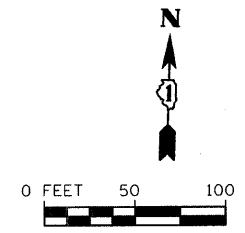


RESTORATION OF WORK AREA
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS CONTROLLER, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, BRICK PAVEMENT, ETC.,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

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
UNIT DUCT		
SYSTEM		
INTERSECTION		
STAINLESS STEEL JUNCTION BOX		

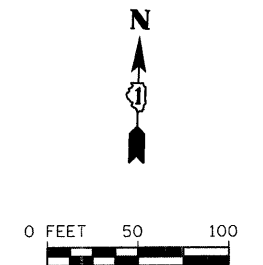
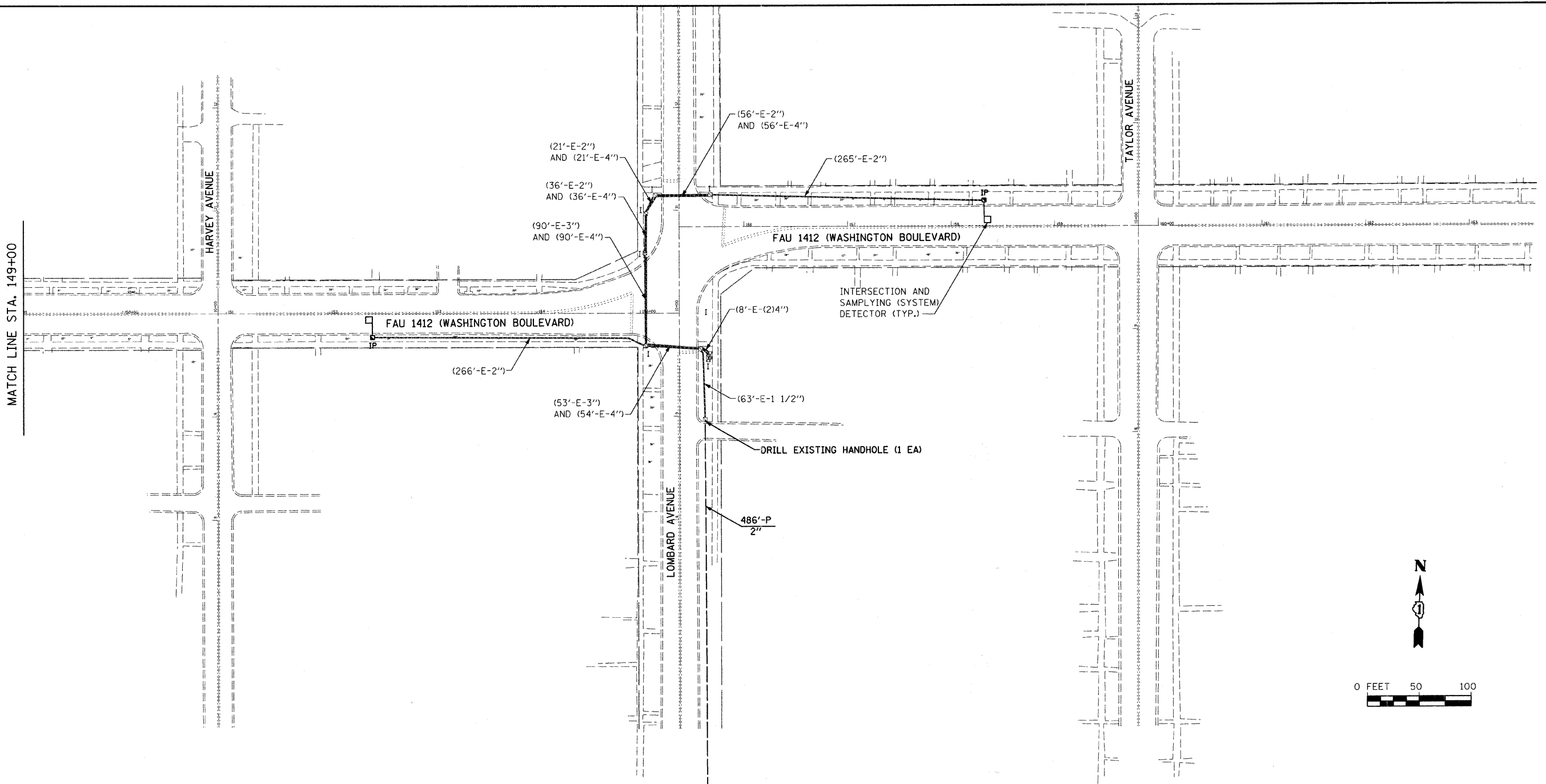
SEE SHEETS 23 THRU 25 FOR INFORMATION ON THE EXISTING INTERCONNECT ALONG MADISON STREET



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 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = adamm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WASHINGTON BOULEVARD INTERCONNECT PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000 " / IN.	CHECKED -	REVISED -					1412	07-00245-00-TL	COOK	64	20
	PLOT DATE = 5/26/2009	DATE -	REVISED -					CONTRACT NO. 63112				
								FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
				SCALE: AS SHOWN			SHEET NO.	OF	SHEETS	STA.	TO STA.	

MATCH LINE STA. 149+00



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
STAINLESS STEEL JUNCTION BOX		

SEE SHEETS 23 THRU 25 FOR INFORMATION ON THE EXISTING INTERCONNECT ALONG MADISON STREET

RESTORATION OF WORK AREA
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS CONTROLLER, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, BRICK PAVER, PAVEMENT, ETC., SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, IN ACCORDANCE WITH STANDARD SPECIFICATION.

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	DATE -	REVISED -

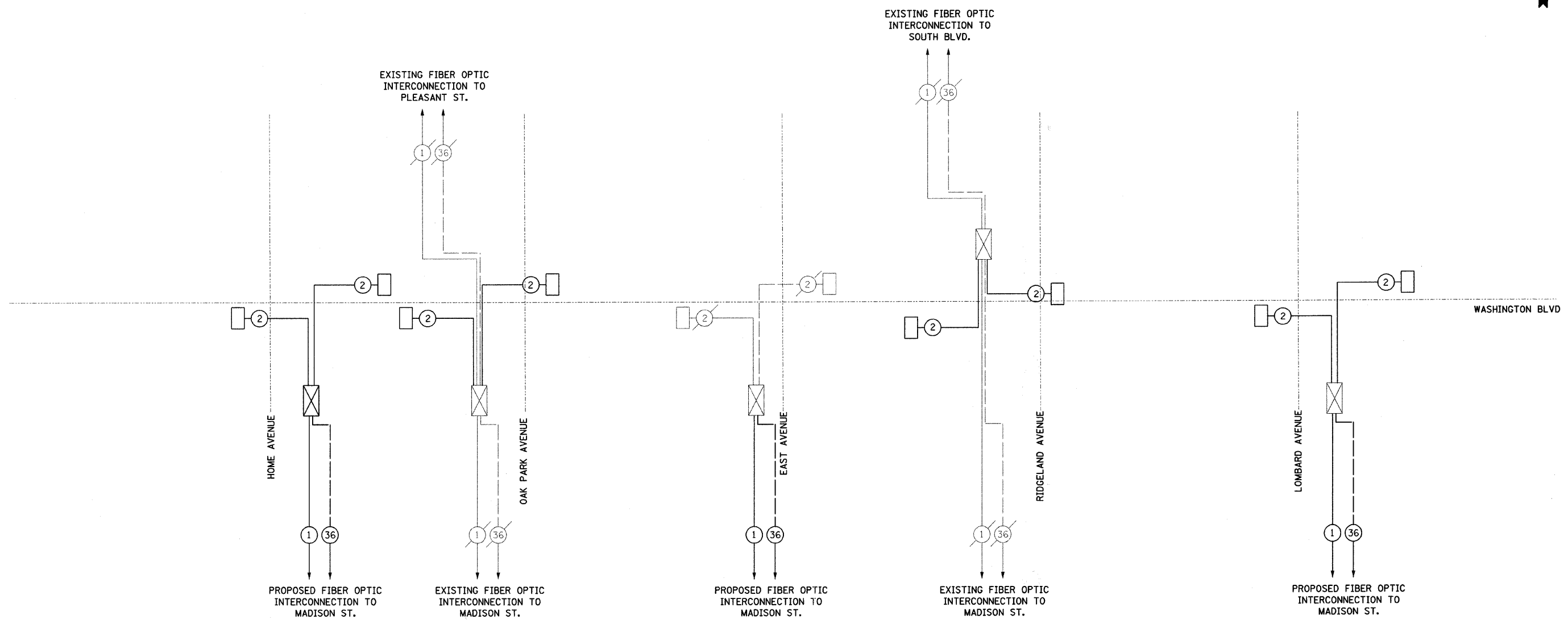
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WASHINGTON BOULEVARD INTERCONNECT PLAN

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 21
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	

ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1621
DRILL EXISTING HANDHOLE	EACH	3
FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F SM 12F	FOOT	2067
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14/1 C	FOOT	2067
TRANSCEIVER - FIBER OPTIC	EACH	3



- NOTES:**
- REOPTIMIZATION OF THE TRAFFIC SIGNAL SYSTEM SHALL BE PERFORMED BY OTHERS.
 - THE VILLAGE OF OAK PARK SHALL MAINTAIN THE EXISTING TRAFFIC SIGNAL INSTALLATIONS AT THE FOLLOWING INTERSECTIONS:
 - MADISON STREET AND HOME AVENUE
 - MADISON STREET AND EAST AVENUE
 - MADISON STREET AND LOMBARD AVENUE
 - ALL DETECTOR LOOPS SHOWN ARE INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

• NOT TO SCALE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WASHINGTON BOULEVARD INTERCONNECT SCHEMATIC

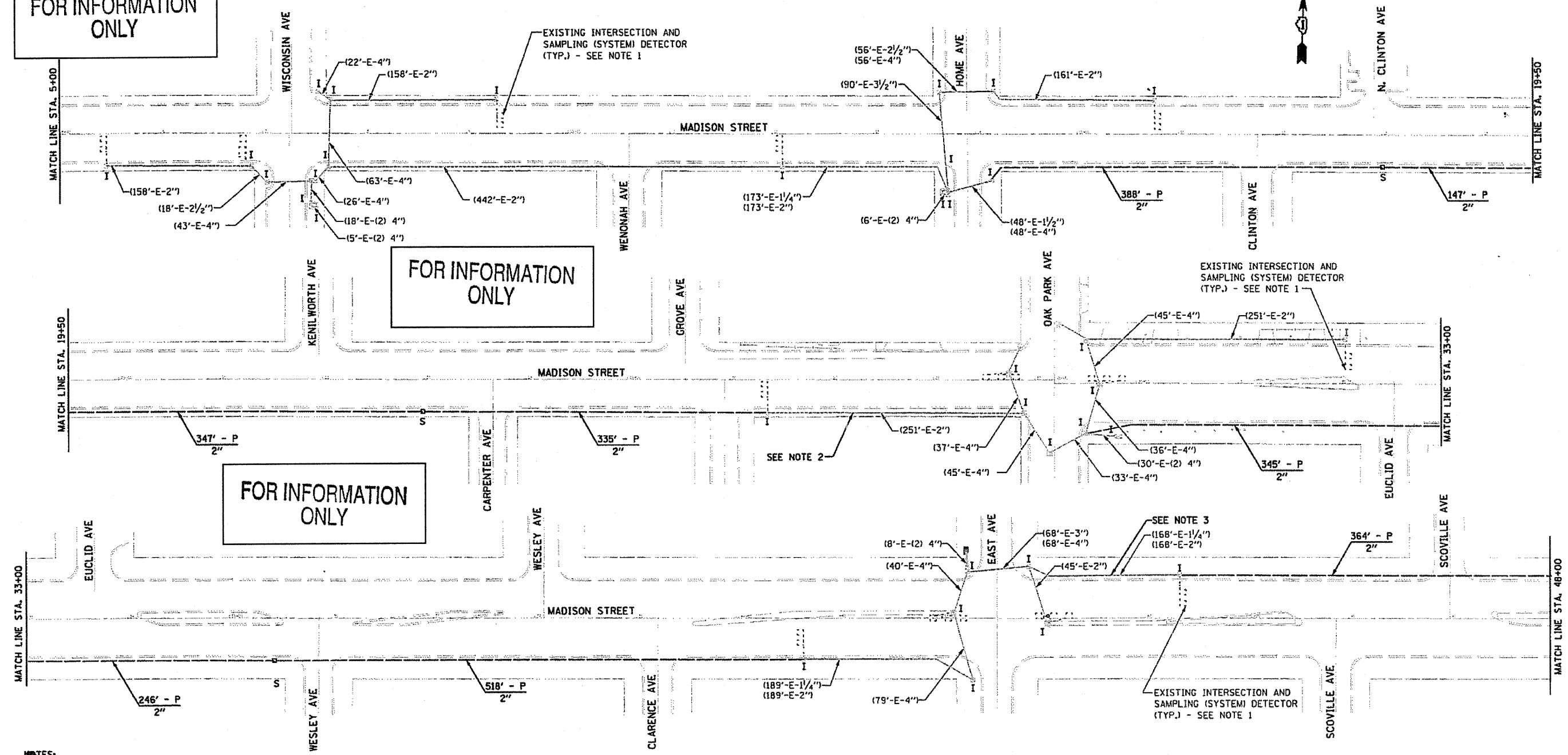
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 22
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63112				

FOR INFORMATION ONLY

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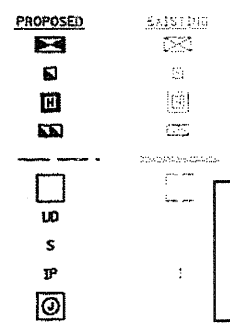


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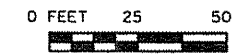
- EXISTING INTERSECTION DETECTOR LOOPS WILL BE REMOVED BY OTHERS DURING THE MADISON STREET RESURFACING PROJECT PRIOR TO CONSTRUCTION. DETECTOR LOOPS SHALL BE REPLACED WHERE INDICATED BY PLANS.
- THE CONTRACTOR SHALL PULL THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE THROUGH THE EXISTING CONDUIT ON THE SOUTH SIDE OF MADISON STREET BETWEEN HOME AVENUE AND OAK PARK AVENUE AND BETWEEN OAK PARK AVENUE AND EAST AVENUE. IF THE EXISTING CONDUIT IS DAMAGED PRIOR TO THE START OF CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL PUSH NEW CONDUIT OF THE ADEQUATE SIZE, AS DETERMINED BY THE ENGINEER, ADJACENT TO THE EXISTING CONDUIT AND PULL THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE THROUGH THE NEW CONDUIT. IF THE EXISTING CABLE IS DAMAGED, THE CONTRACTOR SHALL REMOVE THE DAMAGED CABLE AND REPLACE, IN KIND, WITH NEW CABLE.
- THE CONTRACTOR SHALL PULL THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE THROUGH THE EXISTING CONDUIT ON THE NORTH SIDE OF MADISON STREET BETWEEN EAST AVENUE AND RIDGELAND AVENUE. IF THE CONDUIT IS DAMAGED PRIOR TO THE START OF CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL PUSH NEW CONDUIT OF THE ADEQUATE SIZE, AS DETERMINED BY THE ENGINEER, ADJACENT TO THE EXISTING CONDUIT AND PULL THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE THROUGH THE NEW CONDUIT. IF THE EXISTING CABLE IS DAMAGED, THE CONTRACTOR SHALL REMOVE THE DAMAGED CABLE AND REPLACE, IN KIND, WITH NEW CABLE.

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G. S. CONDUIT IN GROUND (CIG)
- DETECTOR LOOP
- UNIT DUCT
- SYSTEM
- INTERSECTION
- STAINLESS STEEL JUNCTION BOX



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



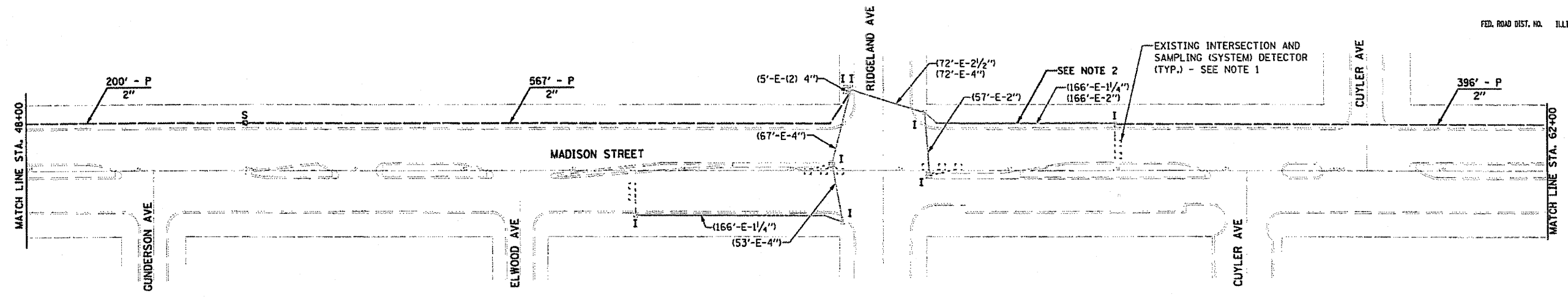
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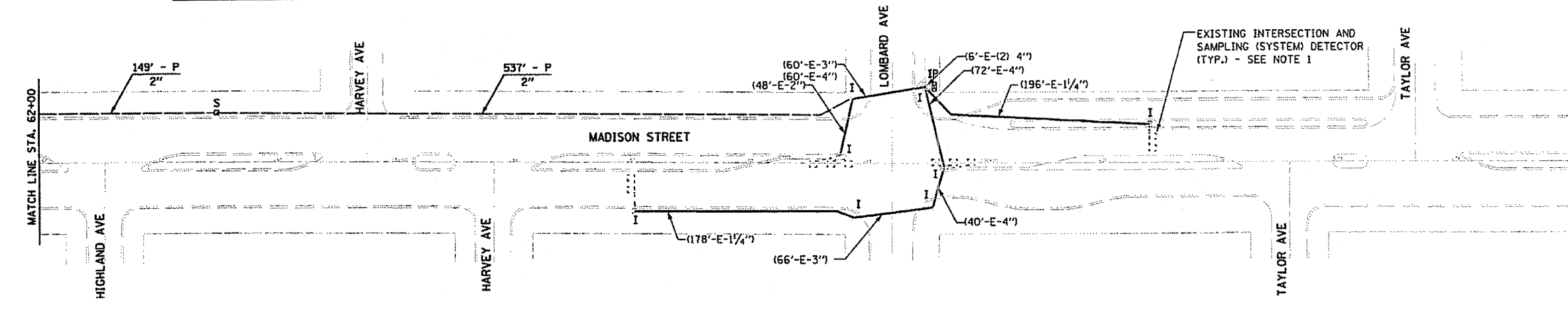
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION	
FAU 1419 MADISON STREET INTERCONNECTION PLAN	
SCALE: VERT. DATE: 1/21/2009	DRAWN BY: KCV CHECKED BY:

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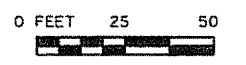


- ~~NOTES:~~
- EXISTING INTERSECTION DETECTOR LOOPS WILL BE REMOVED BY OTHERS DURING THE MADISON STREET RESURFACING PROJECT PRIOR TO CONSTRUCTION. DETECTOR LOOPS SHALL BE REPLACED WHERE INDICATED BY PLANS.
 - THE CONTRACTOR SHALL PULL THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE THROUGH THE EXISTING CONDUIT ON THE NORTH SIDE OF MADISON STREET BETWEEN RIDGELAND AVENUE AND CUYLER AVENUE. IF THE CONDUIT IS DAMAGED PRIOR TO THE START OF CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL PUSH NEW CONDUIT OF THE ADEQUATE SIZE, AS DETERMINED BY THE ENGINEER, ADJACENT TO THE EXISTING CONDUIT AND PULL THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE THROUGH THE NEW CONDUIT. IF THE EXISTING CABLE IS DAMAGED, THE CONTRACTOR SHALL REMOVE THE DAMAGED CABLE AND REPLACE, IN KIND, WITH NEW CABLE.

TRAFFIC SIGNAL LEGEND

CONTROLLER		PROPOSED	
HANDHOLE		AS-BUILT	
HEAVY DUTY HANDHOLE			
DOUBLE HANDHOLE			
G.S. CONDUIT IN GROUND (CIG)			
DETECTOR LOOP			
UNIT DUCT			
SYSTEM			
INTERSECTION			
STAINLESS STEEL JUNCTION BOX			

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



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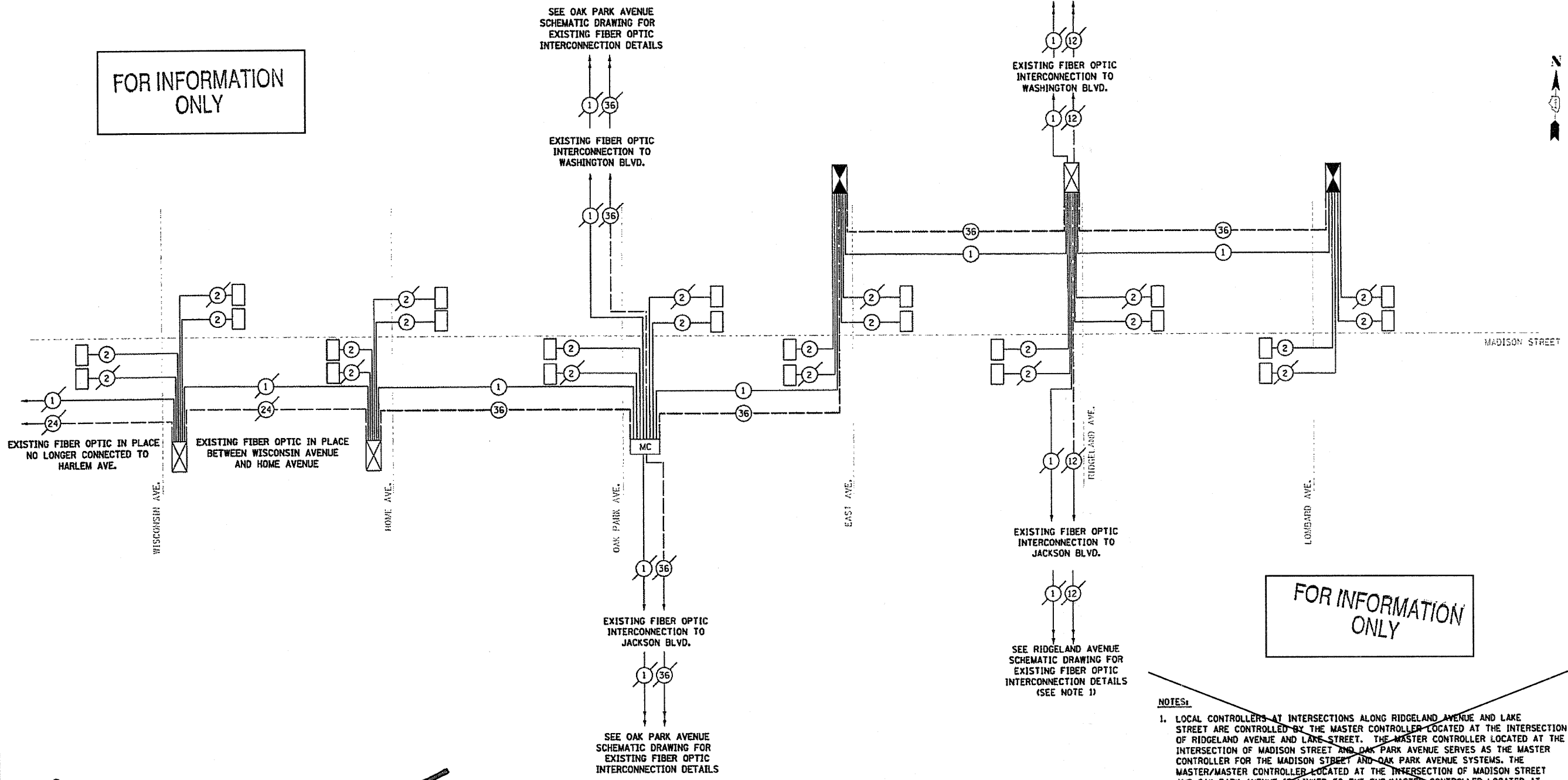


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION	
FAU 1419 MADISON STREET INTERCONNECTION PLAN	
SCALE: VERT. HORIZ. DATE 1/21/2009	DRAWN BY KCV CHECKED BY

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NOTES:

1. LOCAL CONTROLLERS AT INTERSECTIONS ALONG RIDGELAND AVENUE AND LAKE STREET ARE CONTROLLED BY THE MASTER CONTROLLER LOCATED AT THE INTERSECTION OF RIDGELAND AVENUE AND LAKE STREET. THE MASTER CONTROLLER LOCATED AT THE INTERSECTION OF MADISON STREET AND OAK PARK AVENUE SERVES AS THE MASTER CONTROLLER FOR THE MADISON STREET AND OAK PARK AVENUE SYSTEMS. THE MASTER/MASTER CONTROLLER LOCATED AT THE INTERSECTION OF MADISON STREET AND OAK PARK AVENUE IS LINKED TO THE SUB/MASTER CONTROLLER LOCATED AT THE INTERSECTION OF RIDGELAND AVENUE AND LAKE STREET.

ITEM	UNIT	TOTAL
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	4539
HANDHOLE	EACH	6
TRANSCEIVER - FIBER OPTIC	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO 14/1C	FOOT	6342
REOPTIMIZE EXISTING SIGNAL SYSTEM	SUM	1
FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F SM 12F	FOOT	6342

	REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION
	NAME DATE	FAU 1419 MADISON STREET INTERCONNECT SCHEMATIC
		SCALE: VERT. NSNC HORIZ. DATE 11/20/2008
		DRAWN BY: RJO CHECKED BY: JRM

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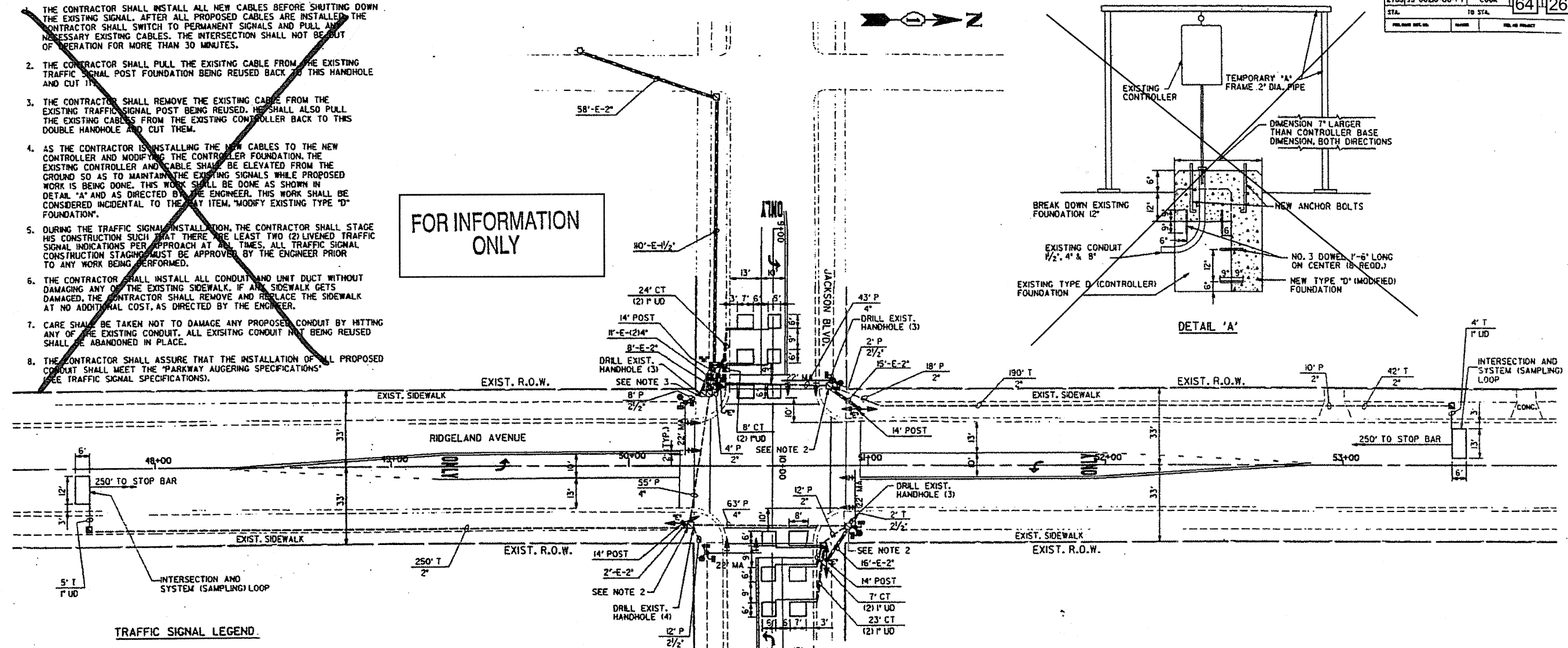
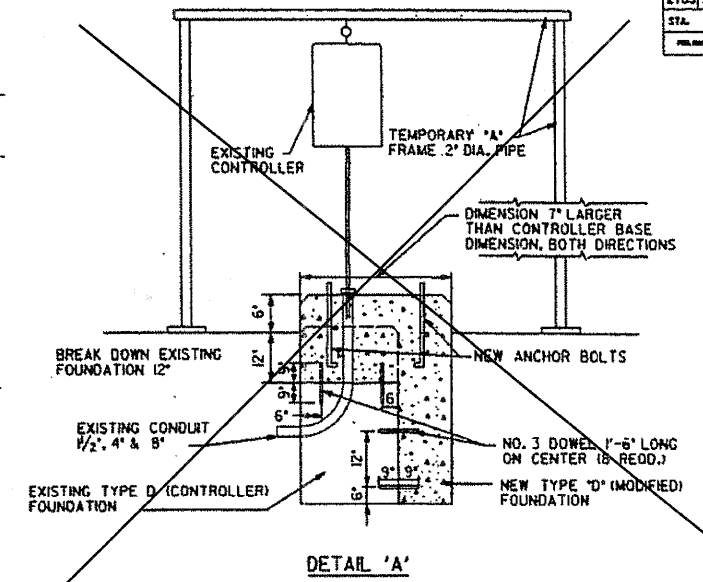
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NOTES:

- THE CONTRACTOR SHALL INSTALL ALL NEW CABLES BEFORE SHUTTING DOWN THE EXISTING SIGNAL. AFTER ALL PROPOSED CABLES ARE INSTALLED, THE CONTRACTOR SHALL SWITCH TO PERMANENT SIGNALS AND PULL ANY NECESSARY EXISTING CABLES. THE INTERSECTION SHALL NOT BE OUT OF OPERATION FOR MORE THAN 30 MINUTES.
- THE CONTRACTOR SHALL PULL THE EXISTING CABLE FROM THE EXISTING TRAFFIC SIGNAL POST FOUNDATION BEING REUSED BACK TO THIS HANDHOLE AND CUT IT.
- THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE FROM THE EXISTING TRAFFIC SIGNAL POST BEING REUSED. HE SHALL ALSO PULL THE EXISTING CABLES FROM THE EXISTING CONTROLLER BACK TO THIS DOUBLE HANDHOLE AND CUT THEM.
- AS THE CONTRACTOR IS INSTALLING THE NEW CABLES TO THE NEW CONTROLLER AND MODIFYING THE CONTROLLER FOUNDATION, THE EXISTING CONTROLLER AND CABLE SHALL BE ELEVATED FROM THE GROUND SO AS TO MAINTAIN THE EXISTING SIGNALS WHILE PROPOSED WORK IS BEING DONE. THIS WORK SHALL BE DONE AS SHOWN IN DETAIL 'A' AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM, 'MODIFY EXISTING TYPE 'D' FOUNDATION'.
- DURING THE TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL STAGE HIS CONSTRUCTION SUCH THAT THERE ARE AT LEAST TWO (2) LINED TRAFFIC SIGNAL INDICATIONS PER APPROACH AT ALL TIMES. ALL TRAFFIC SIGNAL CONSTRUCTION STAGING MUST BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK BEING PERFORMED.
- THE CONTRACTOR SHALL INSTALL ALL CONDUIT AND UNIT DUCT WITHOUT DAMAGING ANY OF THE EXISTING SIDEWALK. IF ANY SIDEWALK GETS DAMAGED, THE CONTRACTOR SHALL REMOVE AND REPLACE THE SIDEWALK AT NO ADDITIONAL COST, AS DIRECTED BY THE ENGINEER.
- CARE SHALL BE TAKEN NOT TO DAMAGE ANY PROPOSED CONDUIT BY HITTING ANY OF THE EXISTING CONDUIT. ALL EXISTING CONDUIT NOT BEING REUSED SHALL BE ABANDONED IN PLACE.
- THE CONTRACTOR SHALL ASSURE THAT THE INSTALLATION OF ALL PROPOSED CONDUIT SHALL MEET THE 'PARKWAY AUGERING SPECIFICATIONS' (SEE TRAFFIC SIGNAL SPECIFICATIONS).

FOR INFORMATION ONLY



TRAFFIC SIGNAL LEGEND

EXIST.	PROP.	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER ('M' INDICATES ON MODIFIED FOUNDATION) SERVICE INSTALLATION
[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN
[Symbol]	[Symbol]	SIGNAL POST ('E' INDICATES ON EXISTING FOUNDATION)
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, ALUMINUM
[Symbol]	[Symbol]	COMMON TRENCH
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	PEDESTRIAN PUSH-BUTTON DETECTOR
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREAS 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.

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

K&E KAM ENGINEERING, INC.
CONSULTING ENGINEERS
707A Davis Road, Suite 205
Evanston, Illinois 60123-1369

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIDGELAND AVE. @ JACKSON BLVD.
TRAFFIC SIGNAL MODIFICATION
SCALE: 1"=20'
DATE: 09-04-98
DRAWN BY: CSL
CHECKED BY: WSA

63112

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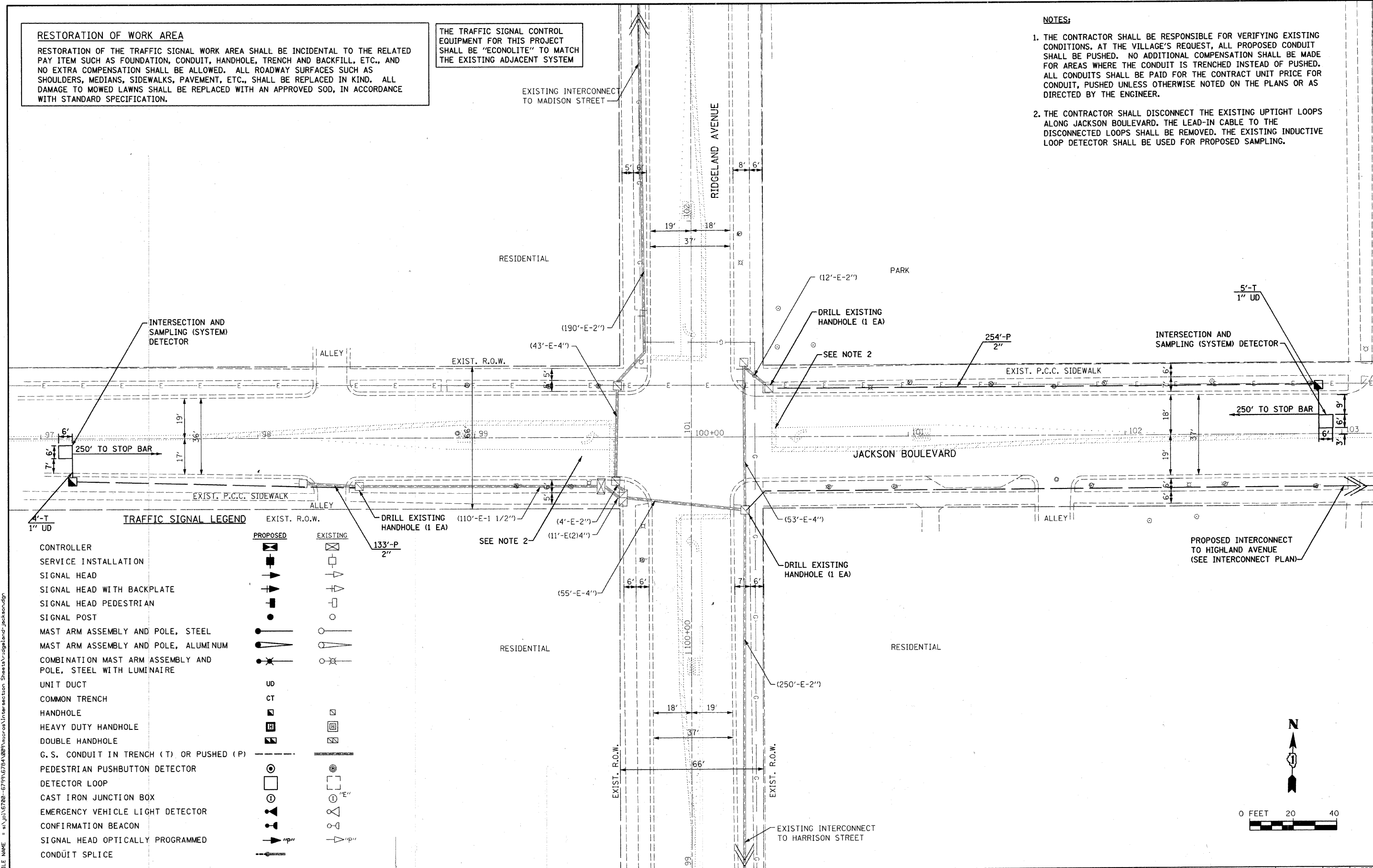
RESTORATION OF WORK AREA

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

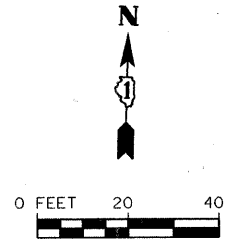
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL DISCONNECT THE EXISTING UPTIGHT LOOPS ALONG JACKSON BOULEVARD. THE LEAD-IN CABLE TO THE DISCONNECTED LOOPS SHALL BE REMOVED. THE EXISTING INDUCTIVE LOOP DETECTOR SHALL BE USED FOR PROPOSED SAMPLING.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	UD	[Symbol]
COMMON TRENCH	CT	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)	T/P	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]



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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

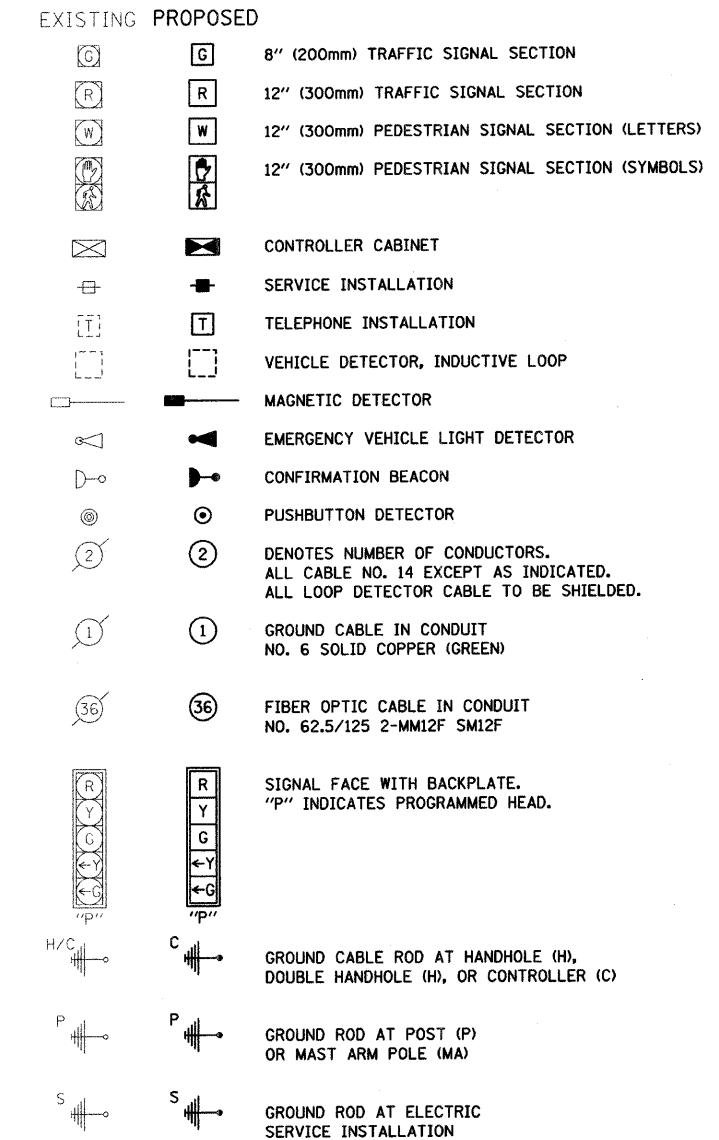
**TRAFFIC SIGNAL MODIFICATION PLAN
JACKSON BOULEVARD & RIDGELAND AVENUE**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 27
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63112				

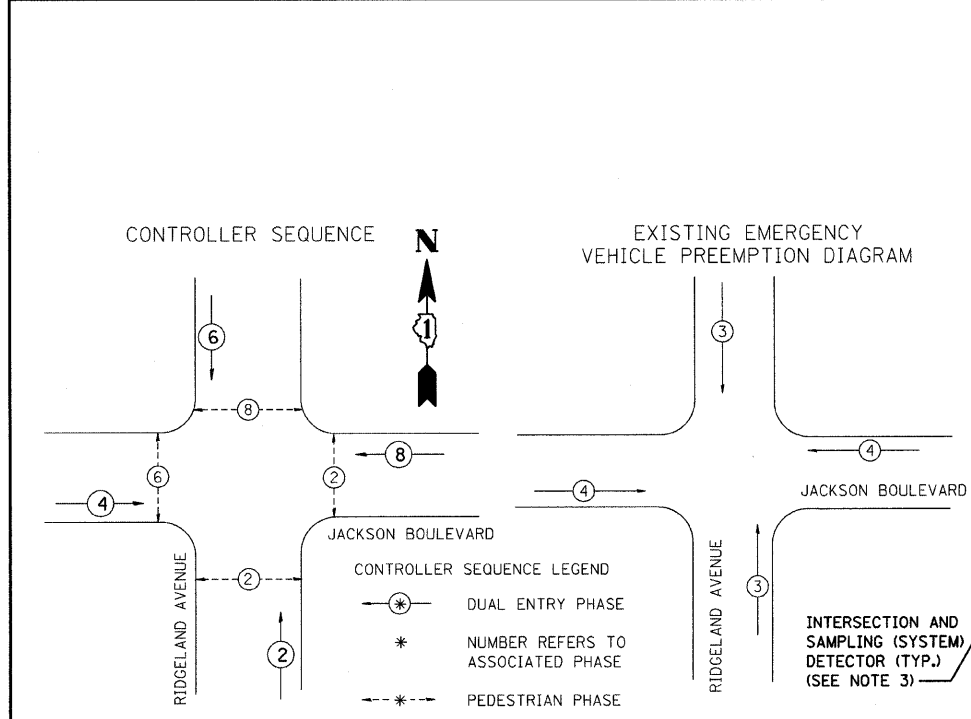
ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	387
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14, 1 PAIR	FOOT	711
DETECTOR LOOP, TYPE 1	FOOT	64
DRILL EXISTING HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	249

CABLE PLAN LEGEND

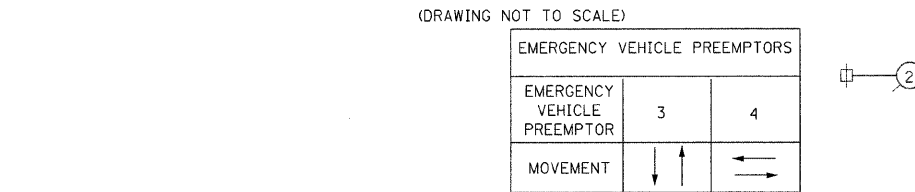


NOTES:

1. THE CONTRACTOR SHALL DISCONNECT THE EXISTING UPTIGHT LOOPS ALONG JACKSON BOULEVARD.
2. EXISTING DETECTOR LOOPS INSTALLED IN THE LEFT TURN LANE SHALL REMAIN.
3. THE CONTRACTOR SHALL CONNECT THE PROPOSED SAMPLING LOOP DETECTOR CABLE TO THE EXISTING INDUCTOR LOOP DETECTOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

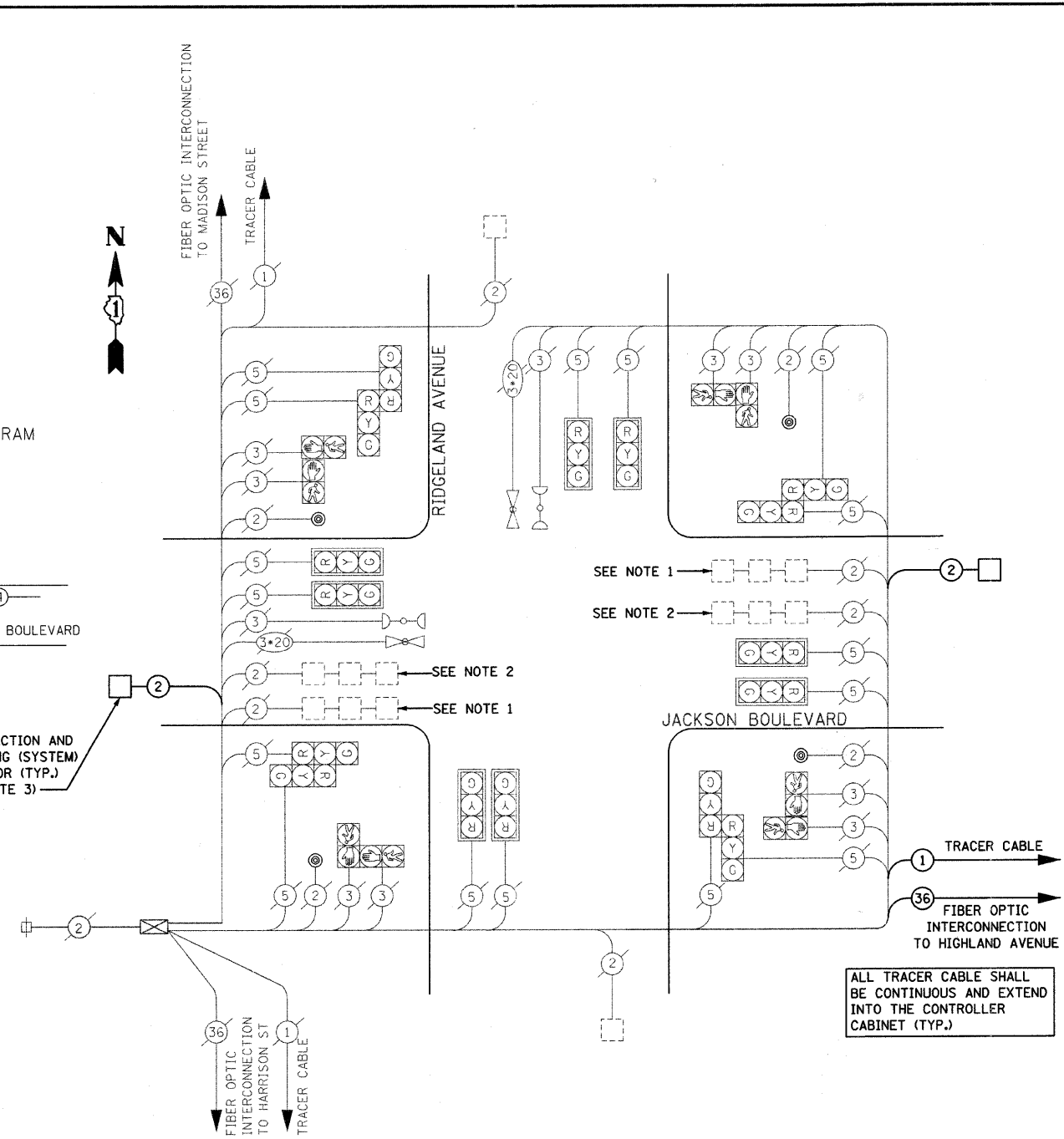


PHASE DESIGNATION DIAGRAM



(DRAWING NOT TO SCALE)

EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	↑



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		%OPERATION	
		INCAND.	LED		
SIGNAL (RED)	16		17	0.50	136
(YELLOW)	16		25	0.25	100
(GREEN)	16		15	0.25	60
ARROW	0		12	0.10	0
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0
FLASHER	2			0.50	0
ENERGY COSTS TO:					TOTAL = 596

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'=(6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

VILLAGE OF OAK PARK
ENERGY SUPPLY CONTACT: _____
PHONE: _____
COMPANY: Commonwealth Edison



USER NAME = adamm
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISÉ -
REVISÉ -
REVISÉ -
REVISÉ -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

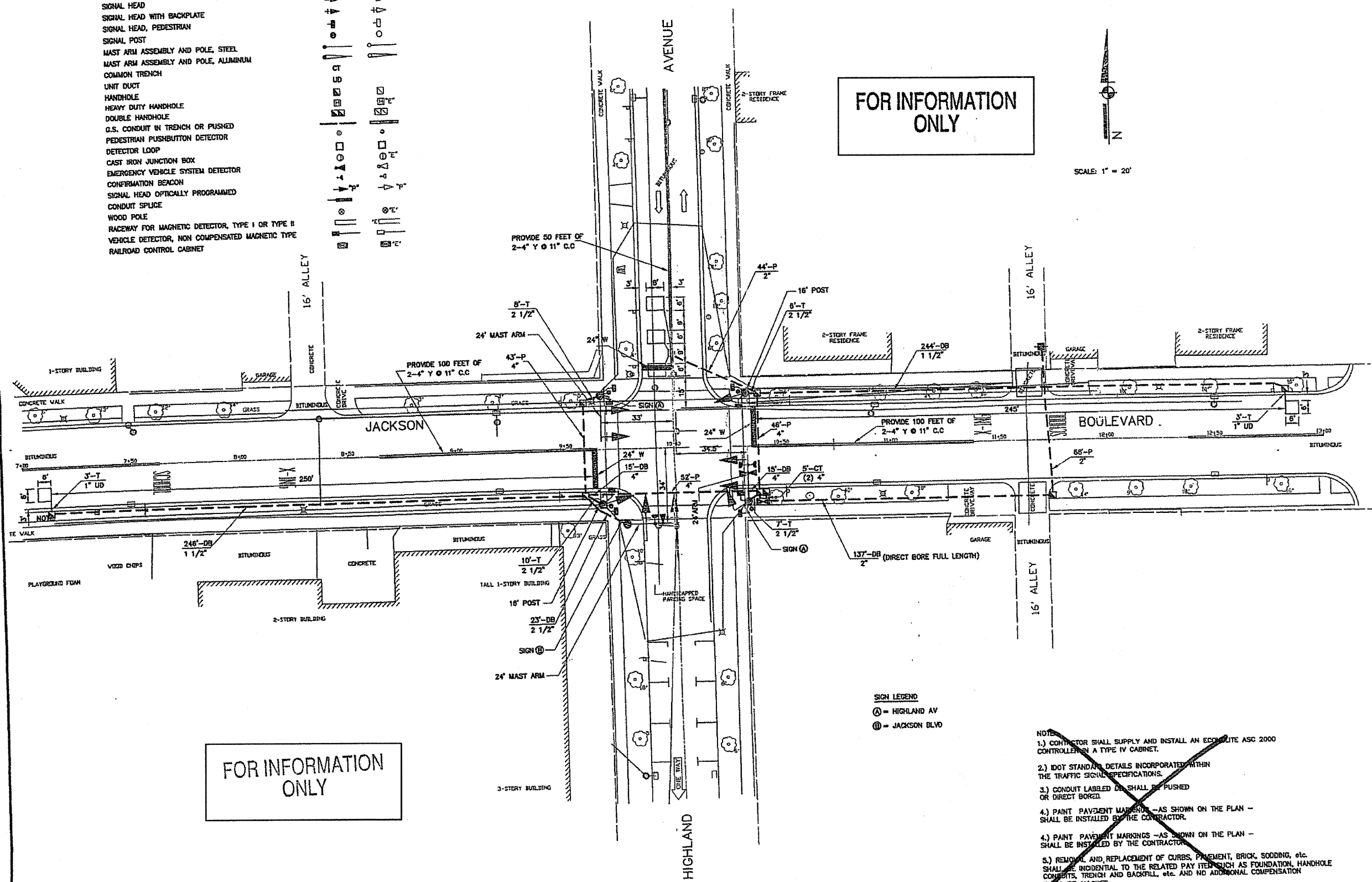
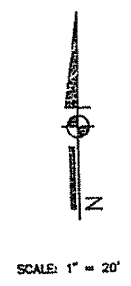
CABLE PLAN
JACKSON BOULEVARD & RIDGELAND AVENUE
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	28
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63112	

TRAFFIC SIGNAL LEGEND

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

FOR INFORMATION ONLY



FOR INFORMATION ONLY

SIGN LEGEND
 (A) = HIGHLAND AV
 (B) = JACKSON BLVD

- NOTES
- 1.) CONTRACTOR SHALL SUPPLY AND INSTALL AN ECONOLITE ASC 2000 CONTROLLER IN A TYPE IV CABINET.
 - 2.) IDOT STANDARD DETAILS INCORPORATED WITHIN THE TRAFFIC SIGNAL SPECIFICATIONS.
 - 3.) CONDUIT LABELED DB SHALL BE PUSHED OR DIRECT BORED.
 - 4.) PAINT PAVEMENT MARKINGS - AS SHOWN ON THE PLAN - SHALL BE INSTALLED BY THE CONTRACTOR.
 - 4.) PAINT PAVEMENT MARKINGS - AS SHOWN ON THE PLAN - SHALL BE INSTALLED BY THE CONTRACTOR.
 - 5.) REMOVAL AND REPLACEMENT OF CURBS, PAVEMENT, BRICK, SODDING, etc. SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, HANDHOLE COVERS, TRENCH AND BACKFILL, etc. AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

TRAFFIC SIGNAL IMPROVEMENTS
 JACKSON BOULEVARD AND HIGHLAND AVENUE
 OAK PARK, ILLINOIS

TRAFFIC SIGNAL
 INSTALLATION PLAN
 REV: 8/13/01
 DATE: 6/25/01 REV: 8/3/01
 DRAWN: MJD DESIGN: MJD

MJD ENGINEERING
 3709 NORTH OKETO
 CHICAGO, ILLINOIS 60634 (773) 625-6565

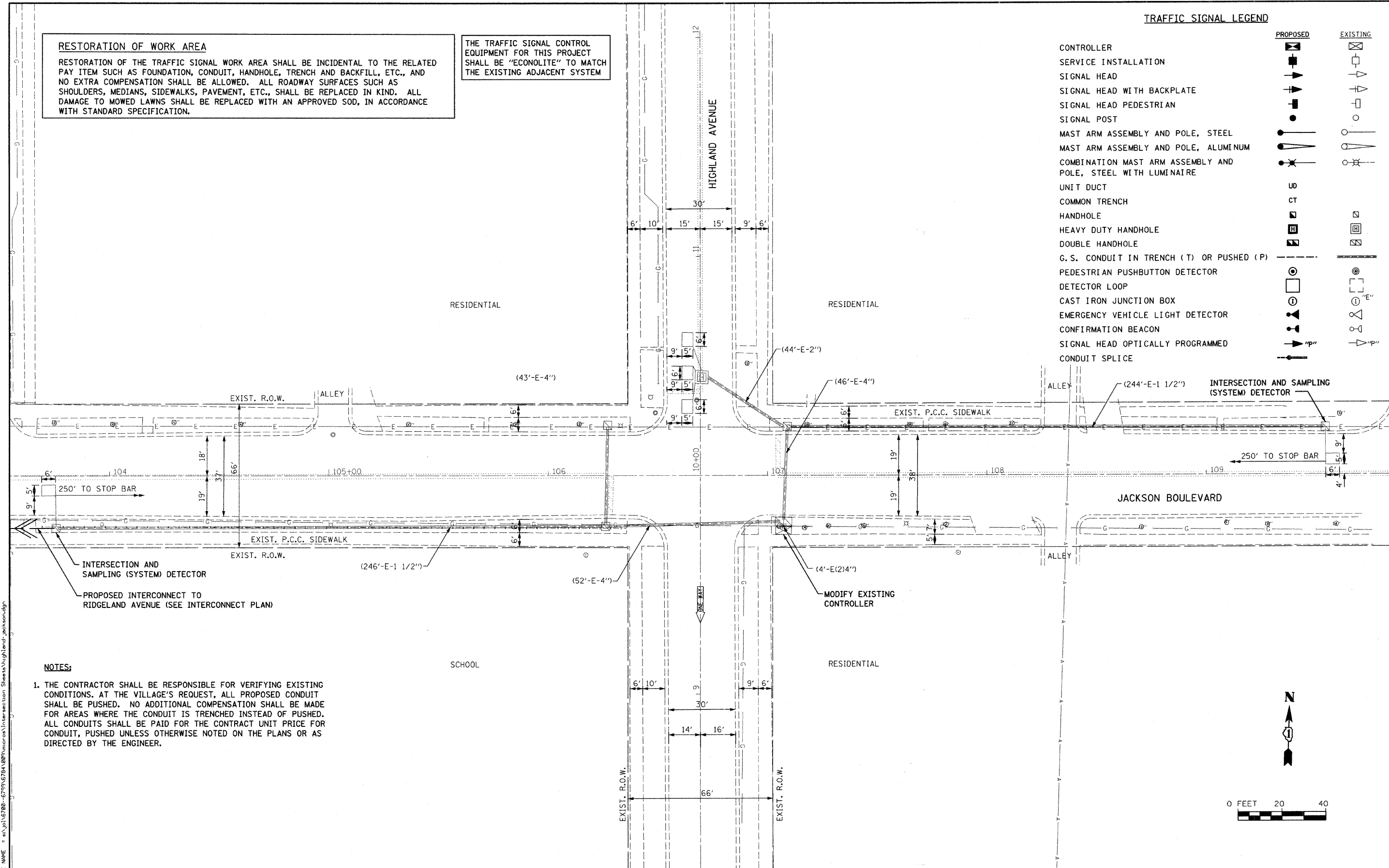
63112

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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

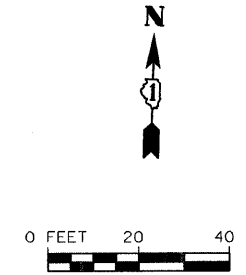
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		



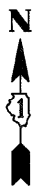
NOTES:
 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.



 1170 SOUTH HOUBOLT ROAD JULIET, ILLINOIS 60431 (815) 744-4200	USER NAME = adam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN JACKSON BOULEVARD & HIGHLAND AVENUE			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000 "/ IN. PLOT DATE = 5/26/2009	DRAWN -	REVISED -					1412	07-00245-00-TL	COOK	64	30
				SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 63112					

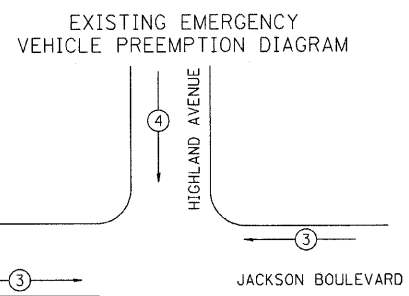
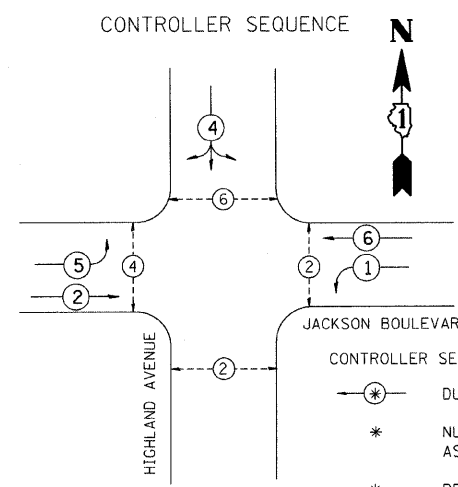
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ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1



CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		36 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MMI2F SM12F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION



PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE LEGEND

- DUAL ENTRY PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- PEDESTRIAN PHASE

EMERGENCY VEHICLE PREEMPTORS

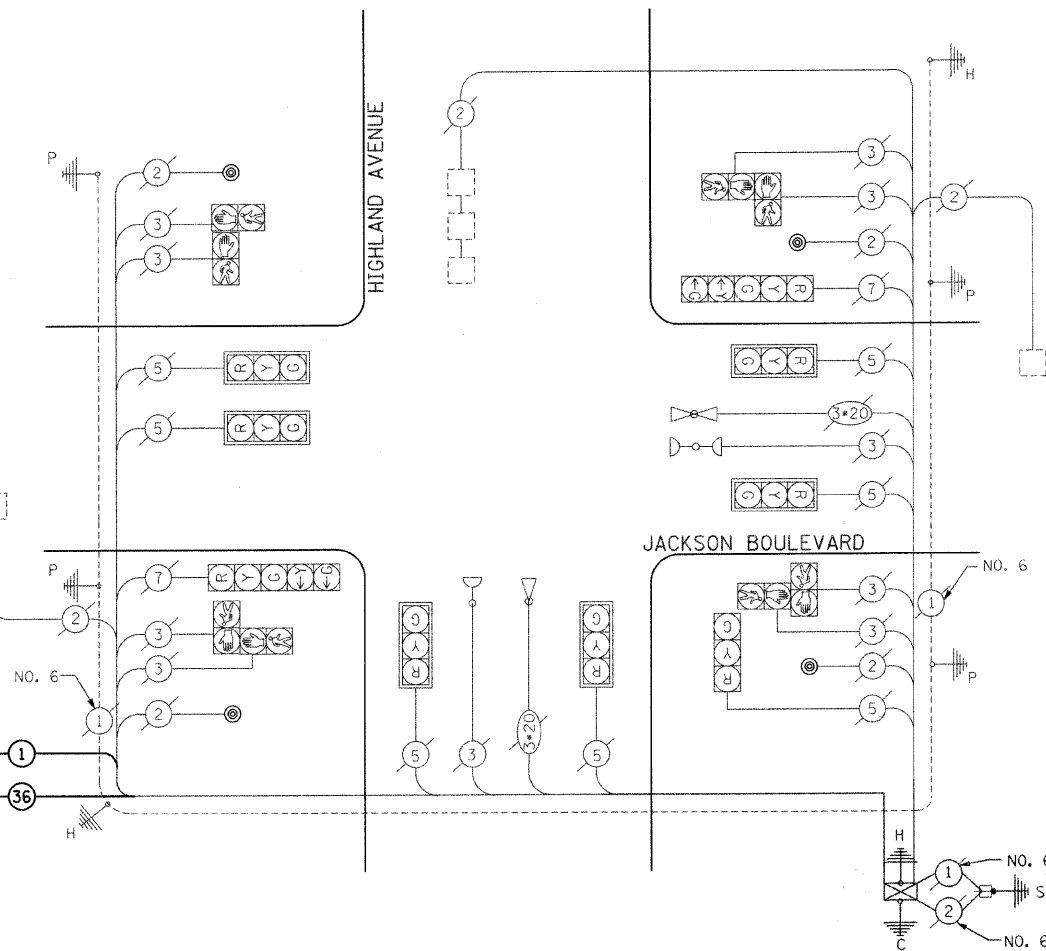
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

INTERSECTION AND SAMPLING (SYSTEM) DETECTOR (TYP.)

TRACER CABLE ← 1

FIBER OPTIC INTERCONNECTION TO RIDGELAND AVENUE ← 36

ALL TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET (TYP.)



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	9	135		0.50	608
(YELLOW)	9	135		0.25	304
(GREEN)	9	135		0.25	304
ARROW	0	135		0.10	0
PED. SIGNAL	8	90		1.00	720
CONTROLLER	1	300		1.00	300
ILLUM. SIGN				0.05	0
FLASHER	-			0.50	0

ENERGY COSTS TO:

TYPE A - POST	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
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'=(6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

ENERGY SUPPLY CONTACT: _____

PHONE: _____

COMPANY: Commonwealth Edison

1170 SOUTH HOUBOLT ROAD JULIET, ILLINOIS 60431 (815) 744-4200	USER NAME = adamn	DESIGNED -	REVISED -
STRAND ASSOCIATES, INC. ENGINEERS	PLOT SCALE = 20,6800 "/ IN.	DRAWN -	REVISED -
	PLOT DATE = 5/26/2009	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

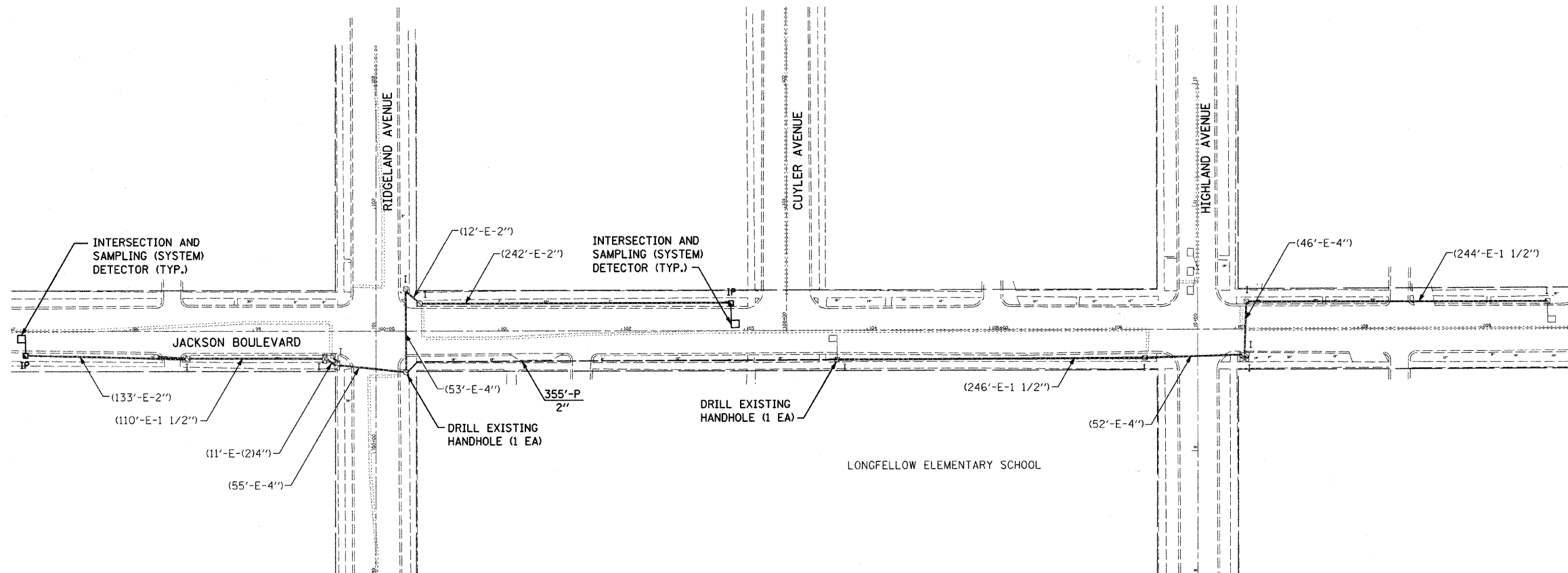
CABLE PLAN

JACKSON BOULEVARD & HIGHLAND AVENUE

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

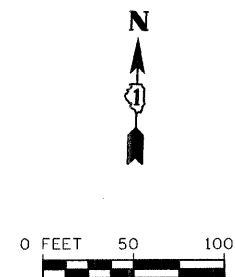
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	31
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	

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TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
STAINLESS STEEL JUNCTION BOX		



RESTORATION OF WORK AREA
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS CONTROLLER, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, BRICK PAVER, PAVEMENT, ETC., SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, IN ACCORDANCE WITH STANDARD SPECIFICATION.

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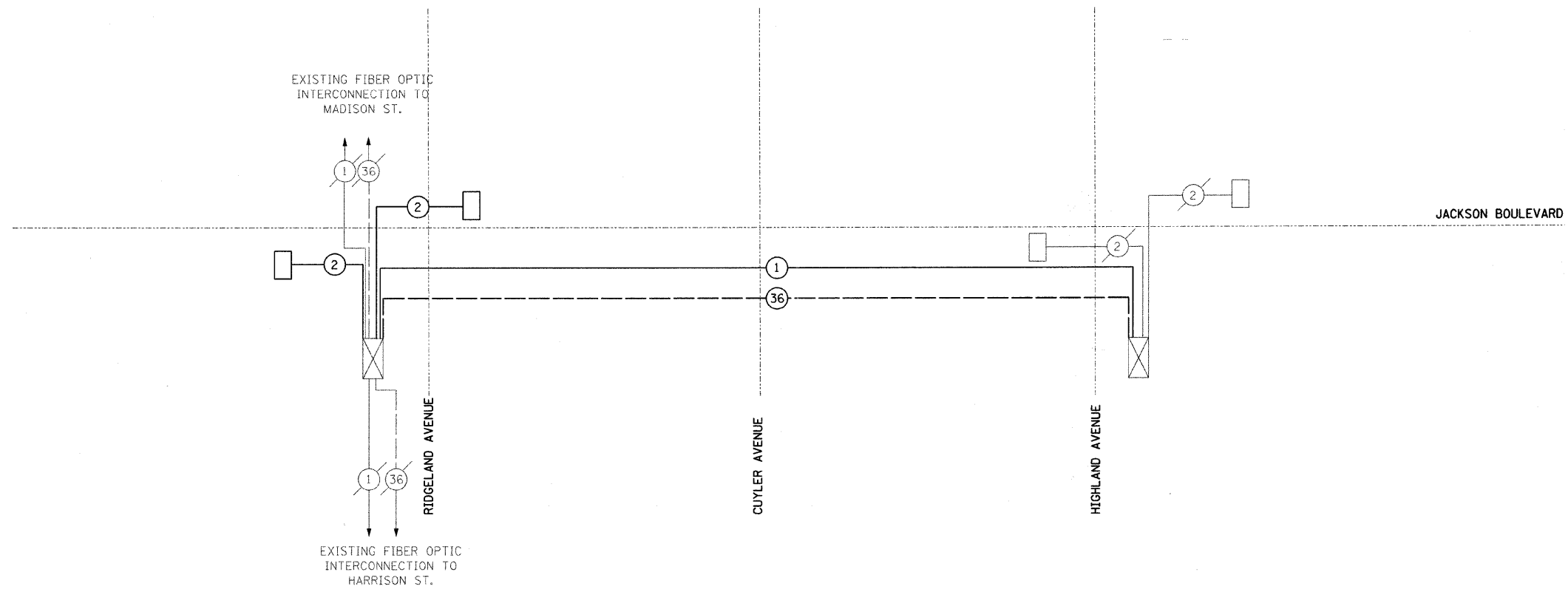
1170 SOUTH HOBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = odamm	DESIGNED - DRAWN -	REVISED - REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 5/26/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

JACKSON BOULEVARD INTERCONNECT PLAN				
SCALE: AS SHOWN	SHEET NO.	OF	SHEETS	STA. TO STA.

F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 32
CONTRACT NO. 63112				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

ITEM	UNIT	TOTAL
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	355
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO 14/1C	FOOT	826
FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F SM 12F	FOOT	826
DRILL EXISTING HANDHOLE	EACH	2



NOTES:

1. REOPTIMIZATION OF THE TRAFFIC SIGNAL SYSTEM SHALL BE PERFORMED BY OTHERS.
2. ALL DETECTOR LOOPS SHOWN ARE INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.

• NOT TO SCALE

FILE NAME = s:\j\16700-6799\679A\08\interconnect sheets\jackson-schematic.dgn



USER NAME = adamm	DESIGNED -	REVISED -
PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

JACKSON BOULEVARD INTERCONNECT SCHEMATIC

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

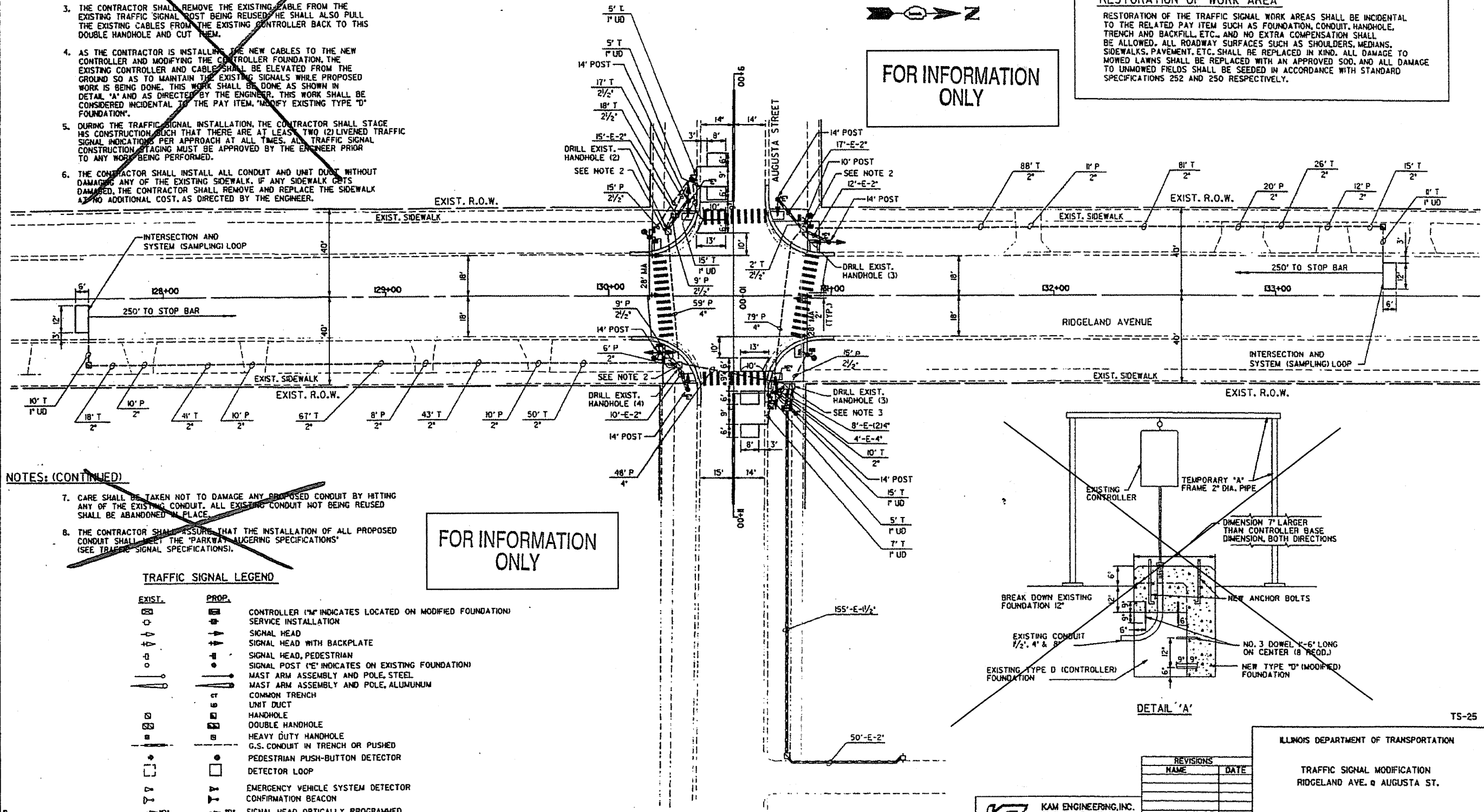
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	

- NOTES:**
1. THE CONTRACTOR SHALL INSTALL ALL NEW CABLES BEFORE SHUTTING DOWN THE EXISTING SIGNAL. AFTER ALL PROPOSED CABLES ARE INSTALLED, THE CONTRACTOR SHALL SWITCH TO PERMANENT SIGNALS AND PULL ANY NECESSARY EXISTING CABLES. THE INTERSECTION SHALL NOT BE OUT OF OPERATION FOR MORE THAN 30 MINUTES.
 2. THE CONTRACTOR SHALL PULL THE EXISTING CABLES FROM THE EXISTING TRAFFIC SIGNAL POST FOUNDATION(S) BEING REUSED BACK TO THIS HANDHOLE AND CUT THEM.
 3. THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE FROM THE EXISTING TRAFFIC SIGNAL POST BEING REUSED. HE SHALL ALSO PULL THE EXISTING CABLES FROM THE EXISTING CONTROLLER BACK TO THIS DOUBLE HANDHOLE AND CUT THEM.
 4. AS THE CONTRACTOR IS INSTALLING THE NEW CABLES TO THE NEW CONTROLLER AND MODIFYING THE CONTROLLER FOUNDATION, THE EXISTING CONTROLLER AND CABLE SHALL BE ELEVATED FROM THE GROUND SO AS TO MAINTAIN THE EXISTING SIGNALS WHILE PROPOSED WORK IS BEING DONE. THIS WORK SHALL BE DONE AS SHOWN IN DETAIL 'A' AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM, 'MODIFY EXISTING TYPE 'D' FOUNDATION'.
 5. DURING THE TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL STAGE HIS CONSTRUCTION SUCH THAT THERE ARE AT LEAST TWO (2) LIVENED TRAFFIC SIGNAL INDICATIONS PER APPROACH AT ALL TIMES. ALL TRAFFIC SIGNAL CONSTRUCTION STAGING MUST BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK BEING PERFORMED.
 6. THE CONTRACTOR SHALL INSTALL ALL CONDUIT AND UNIT DUCT WITHOUT DAMAGING ANY OF THE EXISTING SIDEWALK. IF ANY SIDEWALK GETS DAMAGED, THE CONTRACTOR SHALL REMOVE AND REPLACE THE SIDEWALK AT NO ADDITIONAL COST, AS DIRECTED BY THE ENGINEER.

RESTORATION OF WORK AREA

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

FOR INFORMATION ONLY

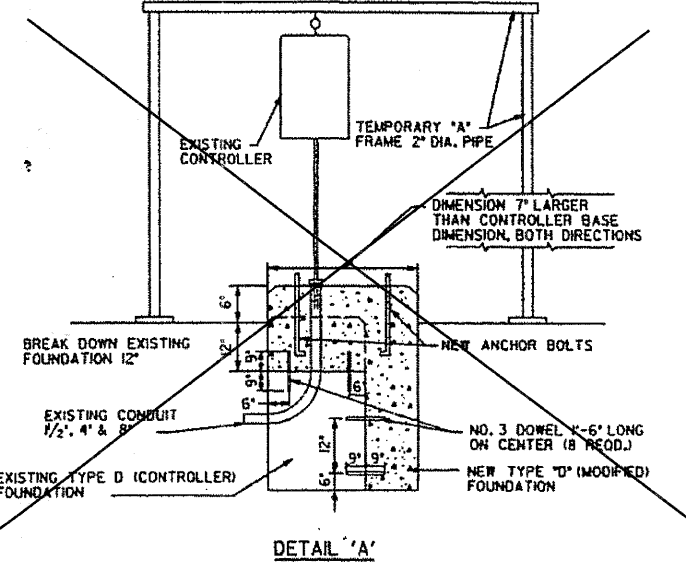


- NOTES: (CONTINUED)**
7. CARE SHALL BE TAKEN NOT TO DAMAGE ANY PROPOSED CONDUIT BY HITTING ANY OF THE EXISTING CONDUIT. ALL EXISTING CONDUIT NOT BEING REUSED SHALL BE ABANDONED IN PLACE.
 8. THE CONTRACTOR SHALL ASSURE THAT THE INSTALLATION OF ALL PROPOSED CONDUIT SHALL MEET THE 'PARKWAY AUGERING SPECIFICATIONS' (SEE TRAFFIC SIGNAL SPECIFICATIONS).

FOR INFORMATION ONLY

TRAFFIC SIGNAL LEGEND

EXIST.	PROP.	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER (*M INDICATES LOCATED ON MODIFIED FOUNDATION)
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN
[Symbol]	[Symbol]	SIGNAL POST (*E INDICATES ON EXISTING FOUNDATION)
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, ALUMINUM
[Symbol]	[Symbol]	COMMON TRENCH
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	PEDESTRIAN PUSH-BUTTON DETECTOR
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED



REVISIONS

NAME	DATE

K&E ENGINEERING, INC.
CONSULTING ENGINEERS
707A Davis Road, Suite 205
Evanston, Illinois 60123-1369

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION
RIDGELAND AVE. @ AUGUSTA ST.

SCALE: 1"=20'
DATE: 09-04-98

DRAWN BY: CSL
CHECKED BY: WSA

63112

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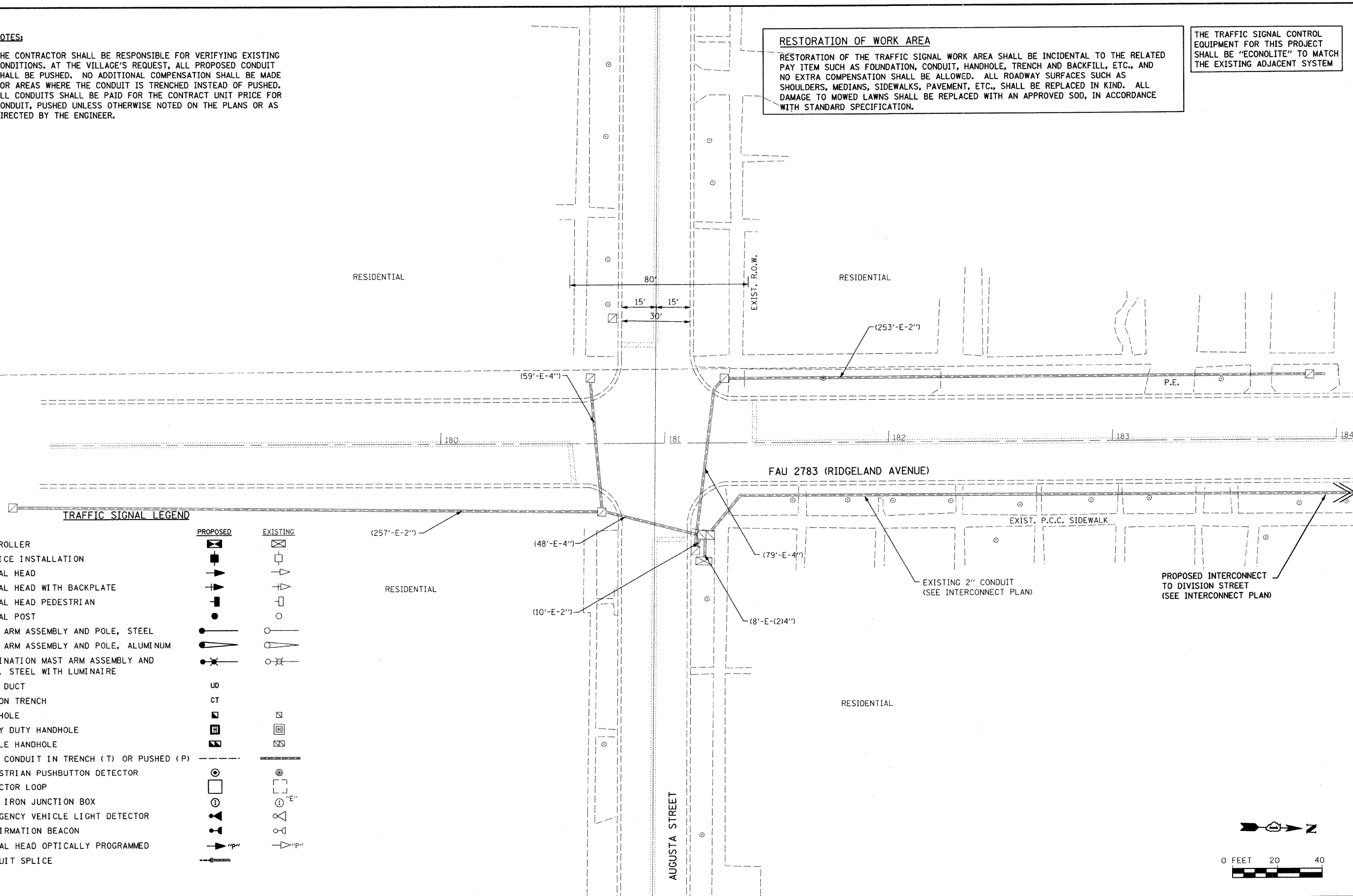
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

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



	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	UB	[Symbol]
COMMON TRENCH	CT	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]



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STRAND
ENGINEERS

1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

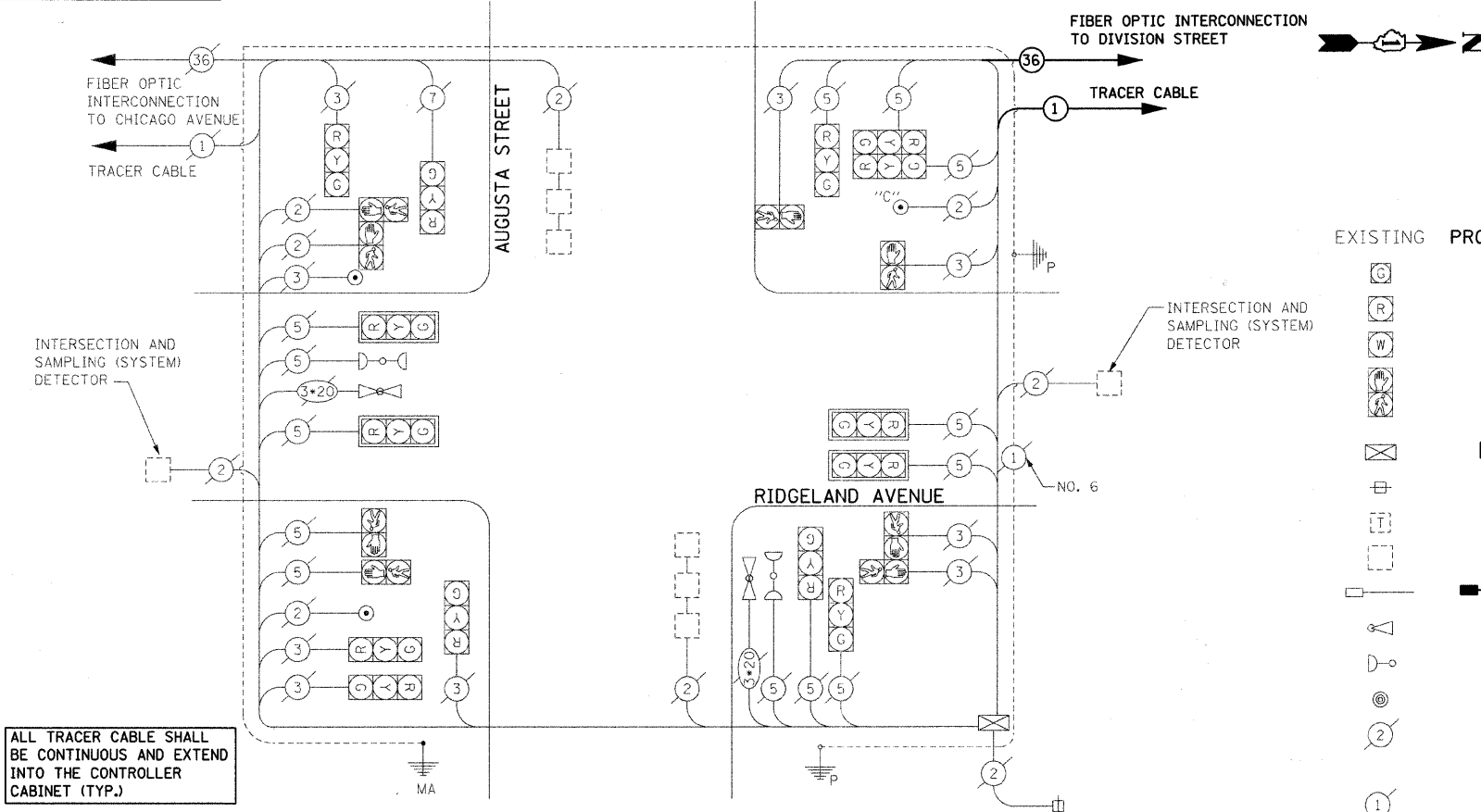
USER NAME = adamm	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODIFICATION PLAN RIDGELAND AVENUE & AUGUSTA STREET			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	35
CONTRACT NO. 63112				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

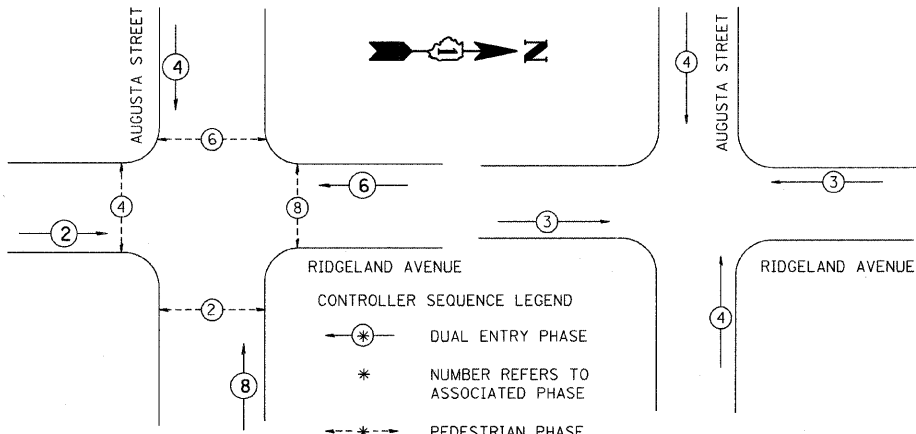


ALL TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET (TYP.)

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE 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.
		GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

EXISTING CONTROLLER SEQUENCE EXISTING EMERGENCY VEHICLE PREEMPTION DIAGRAM



PHASE DESIGNATION DIAGRAM (DRAWING NOT TO SCALE)

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		%OPERATION	
		INCAND.	LED		
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	88
(GREEN)	14		15	0.25	53
ARROW	0		12	0.10	0
PED. SIGNAL	7		25	1.00	175
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0

ENERGY COSTS TO: TOTAL = 535

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT: _____
 PHONE: _____
 COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2' =
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)



USER NAME = edamm
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN
 RIDGELAND AVENUE & AUGUSTA STREET

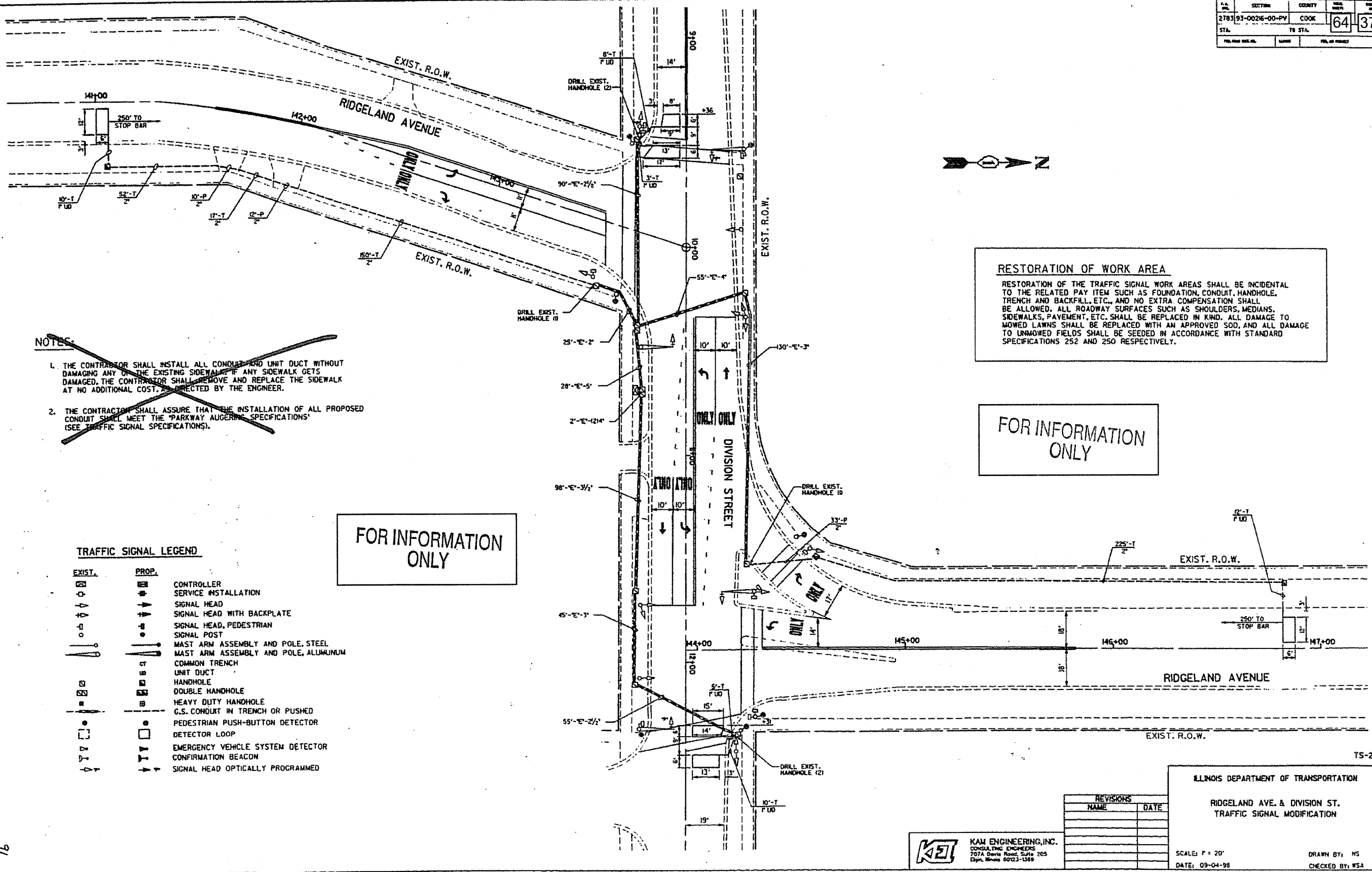
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	36

CONTRACT NO. 63112

FILE NAME: s:\proj\67800-6799\67800\6799\MicroStation\cable\plans\augusta-ridgeland.dgn

STATE	SECTION	COUNTY	MAP SHEET	SHEET NO.
2783	93-0026-00-PV	COOK	64	37
STA.	TO STA.		FILE NO. (PROJECT)	



- NOTES:**
1. THE CONTRACTOR SHALL INSTALL ALL CONDUIT AND UNIT DUCT WITHOUT DAMAGING ANY OF THE EXISTING SIDEWALKS. IF ANY SIDEWALK GETS DAMAGED, THE CONTRACTOR SHALL REMOVE AND REPLACE THE SIDEWALK AT NO ADDITIONAL COST, AS DIRECTED BY THE ENGINEER.
 2. THE CONTRACTOR SHALL ASSURE THAT THE INSTALLATION OF ALL PROPOSED CONDUIT SHALL MEET THE 'PARKWAY AUGERING SPECIFICATIONS' (SEE TRAFFIC SIGNAL SPECIFICATIONS).

RESTORATION OF WORK AREA
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREAS 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.

FOR INFORMATION ONLY

FOR INFORMATION ONLY

TRAFFIC SIGNAL LEGEND

EXIST.	PROP.	
		CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, ALUMINUM
		COMMON TRENCH
		UNIT DUCT
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		PEDESTRIAN PUSH-BUTTON DETECTOR
		DETECTOR LOOP
		EMERGENCY VEHICLE SYSTEM DETECTOR
		CONFIRMATION BEACON
		SIGNAL HEAD OPTICALLY PROGRAMMED

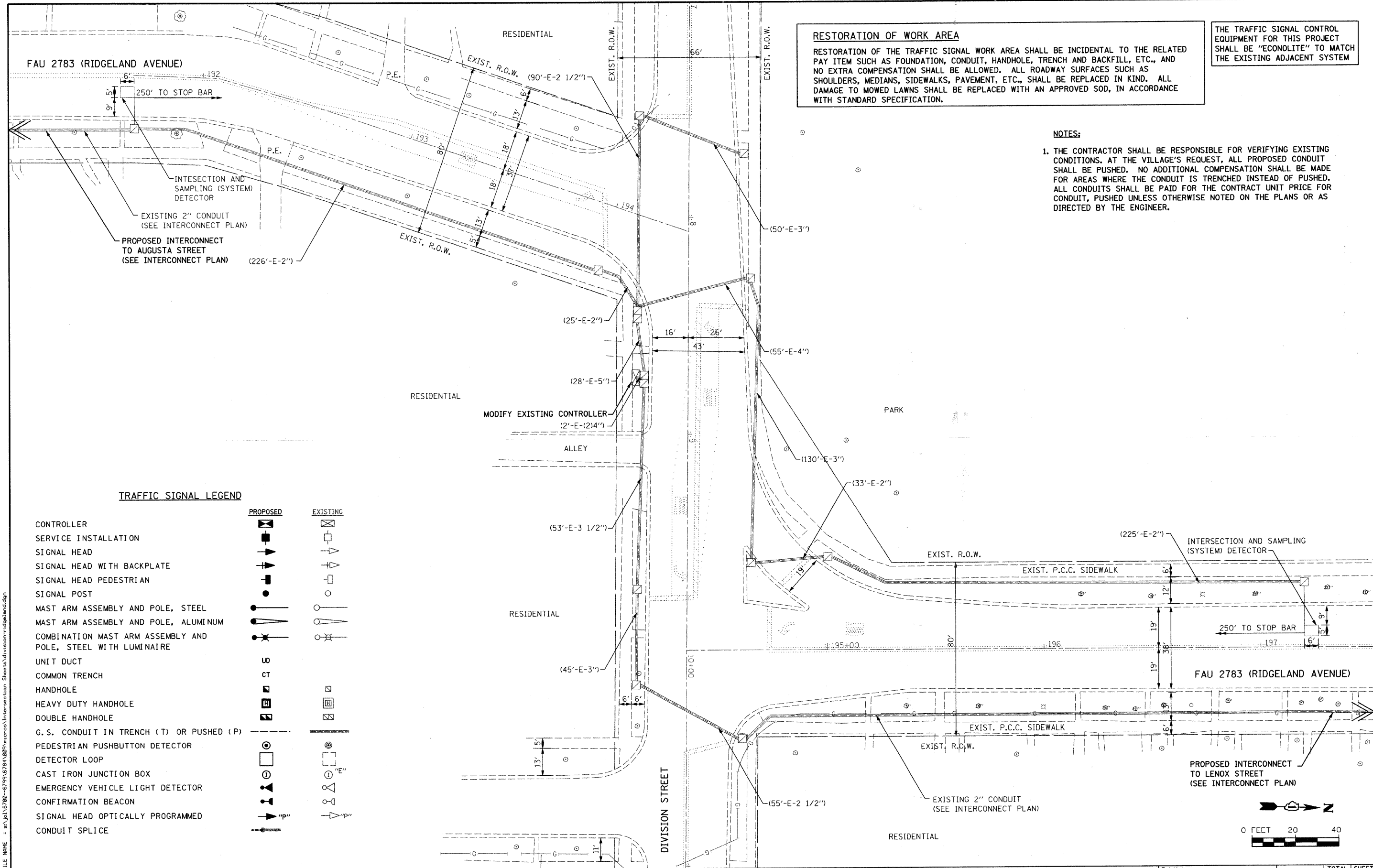
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 RIDGELAND AVE. & DIVISION ST.
 TRAFFIC SIGNAL MODIFICATION
 SCALE: F = 20'
 DATE: 09-04-98
 DRAWN BY: MS
 CHECKED BY: WSA

K&E KAM ENGINEERING, INC.
 CONSULTING ENGINEERS
 707A Davis Road, Suite 205
 Elgin, Illinois 60120-1589

F:\DCN\JOB91-2\DIVIS\SIG.DGN 16

63112



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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

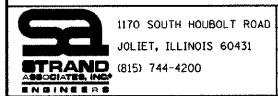
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

- NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	UD	[Symbol]
COMMON TRENCH	CT	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]

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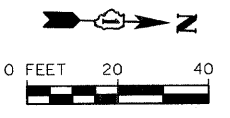
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PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

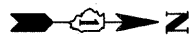
**TRAFFIC SIGNAL MODIFICATION PLAN
RIDGELAND AVENUE & DIVISION STREET**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

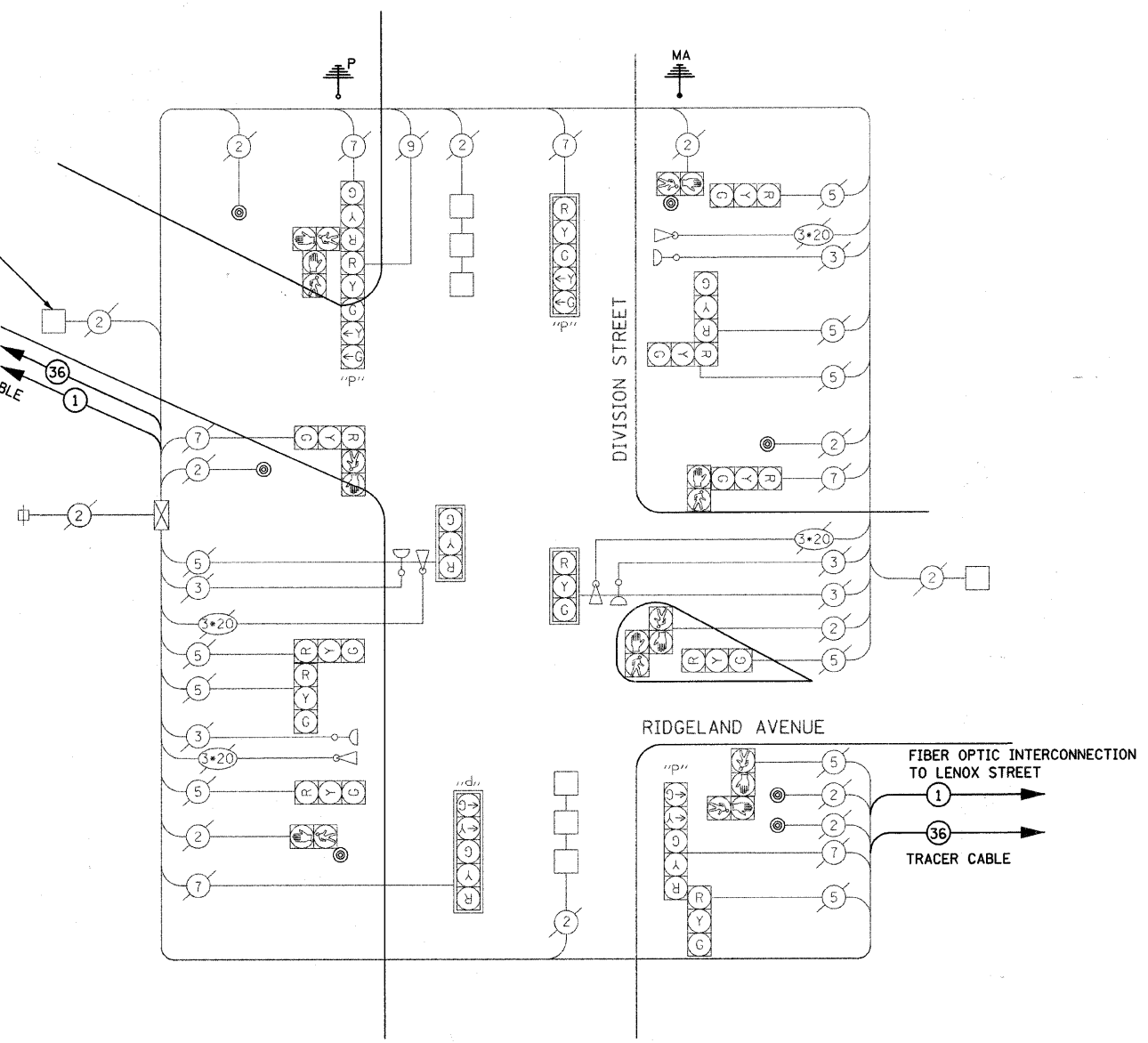
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63112	



ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1



INTERSECTION AND SAMPLING (SYSTEM) DETECTOR (TYP.)
 FIBER OPTIC INTERCONNECTION TO AUGUSTA STREET
 TRACER CABLE



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE 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.
		GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

ALL TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET (TYP.)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	17	17	0.50	145	
(YELLOW)	17	25	0.25	106	
(GREEN)	17	15	0.25	64	
ARROW	8	12	0.10	10	
PED. SIGNAL	10	25	1.00	250	
CONTROLLER	1	100	1.00	100	
ILLUM. SIGN			0.05	0	

ENERGY COSTS TO: TOTAL = 675

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT: _____
 PHONE: _____
 COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'=(6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

 1170 SOUTH HOUBOLT ROAD JULIET, ILLINOIS 60431 (815) 744-4200	USER NAME = edamm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN RIDGELAND AVENUE & DIVISION STREET				F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 39
	PLOT SCALE = 20,000' / IN.	CHECKED -	REVISIED -		SCALE: AS SHOWN	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 63112					
PLOT DATE = 5/26/2009	DATE	REVISIED -						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

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CABLE PLAN LEGEND

- | | | |
|--|----------|----------------------------------|
| | G | 8" TRAFFIC SIGNAL SECTION |
| | R | 12" TRAFFIC SIGNAL SECTION |
| | P | 12" PEDESTRIAN SIGNAL SECTION |
| | P | 12" PEDESTRIAN SIGNAL SECTION |
| | P | 12" PEDESTRIAN SIGNAL SECTION |
| | C | CONTROLLER CABINET |
| | S | SERVICE INSTALLATION |
| | V | VEHICLE DETECTOR, INDUCTION LOOP |
| | M | MAGNETIC DETECTOR |
| | E | EMERGENCY VEHICLE LIGHT DETECTOR |
| | B | CONFIRMATION BEACON |
| | D | PUSHBUTTON DETECTOR |
- DEFINITIONS:
 DENOTES NUMBER OF CONDUCTORS.
 ALL CABLE NO. 14 EXCEPT AS INDICATED.
 ALL LOOP DETECTOR CABLE TO BE SHIELDED.
- SIGNAL FACE WITH BACKPLATE:
 P INDICATES PROGRAMMED.
 E INDICATES EXISTING SIGNAL HEAD OR EXISTING PEDESTRIAN SIGNAL HEAD.
 R INDICATES RELOCATED SIGNAL HEAD

SCHEDULE OF QUANTITIES

PAY ITEM NUMBER	PAY ITEM	UNITS	TOTAL
8000000	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	444
8000000	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	55
8100000	HANDHOLE	EACH	3
8200000	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 TYPE	FOOT	1326
8300000	DRILL EXISTING HANDHOLE	EACH	6
8400000	INDUCTIVE LOOP DETECTOR	EACH	4
8400000	DETECTOR LOOP TYPE 1	FOOT	240
8500000	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
8600000	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	50

FOR INFORMATION ONLY

EXISTING SEQUENCE OF OPERATIONS

MOVEMENT	1	2	3A	3B	3C	4A	4B	4C	5	6	7A	7B	8A	8B	9	10	11A	11B	12A	12B
PHASE	1				2				3				4							
INTERVAL	1	2	3A	3B	3C	4A	4B	4C	5	6	7A	7B	8A	8B	9	10	11A	11B	12A	12B
CHANGE TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SB/WB DIVISION THROUGH ONLY INDICATIONS	G	G	Y	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WB DIVISION THROUGH/LEFT INDICATIONS	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
EB DIVISION THROUGH/LEFT INDICATIONS	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
NS RIDGELAND ALL INDICATIONS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SB RIDGELAND ALL INDICATIONS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN INDICATIONS CROSSING RIDGELAND AVE.	*W	*FL	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR
PEDESTRIAN INDICATIONS CROSSING EAST APPROACH OF DIVISION ST.	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	*W	*FL	DR	DR	DR
PEDESTRIAN INDICATIONS CROSSING WEST APPROACH OF DIVISION ST.	DR	DR	DR	DR	DR	DR	DR	DR	DR	DR	*W	*FL	DR	DR	DR	DR	DR	DR	DR	DR

FOR INFORMATION ONLY

SCHEDULE OF QUANTITIES

TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1
ELECTRIC CABLE IN CONDUIT, SIZE NO. 14 3C	FOOT	778
ELECTRIC CABLE IN CONDUIT NO. 20 3C SHIELDED	FOOT	778
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

- * TO APPEAR UPON PUSHBUTTON ACTUATION
- ** FLASHING 'DON'T WALK' IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL
- ⊕ THIS 'WALK' INTERVAL MAY FINISH FIRST IN THE OBSERVATIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT APPROX TIME IS NOT SUFFICIENT TO COMPLETE 'WALK' OR FLASHING 'DON'T WALK' INTERVALS.
- *WALK* AND FLASHING 'DON'T WALK' THINGS TO BE SET ONLY ON PHASES WHERE 'WALK' AND FLASHING 'DON'T WALK' ARE INDICATED IN THE SEQUENCE OF OPERATIONS.

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION
 6-03-02
 OAK PAR-SHEET 277 OF 365

CHRISTOPHER B. BURKS ENGINEERING LTD.
 9575 West Higgins Road, Suite 100
 Rosemont, Illinois 60018
 630-583-0000

K&M ENGINEERING, INC.
 707A Davis Road, Suite 200
 Cary, North Carolina 27513

REVISIONS

NO.	DATE
1	6-03-02

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 RIDGELAND AVE. & DIVISION STREET
 SCALE: NONE
 DATE: 09-04-98
 DRAWN BY: RV
 CHECKED BY: WEA

63112

CONSTRUCTION NOTES:

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

△ REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, EACH 1

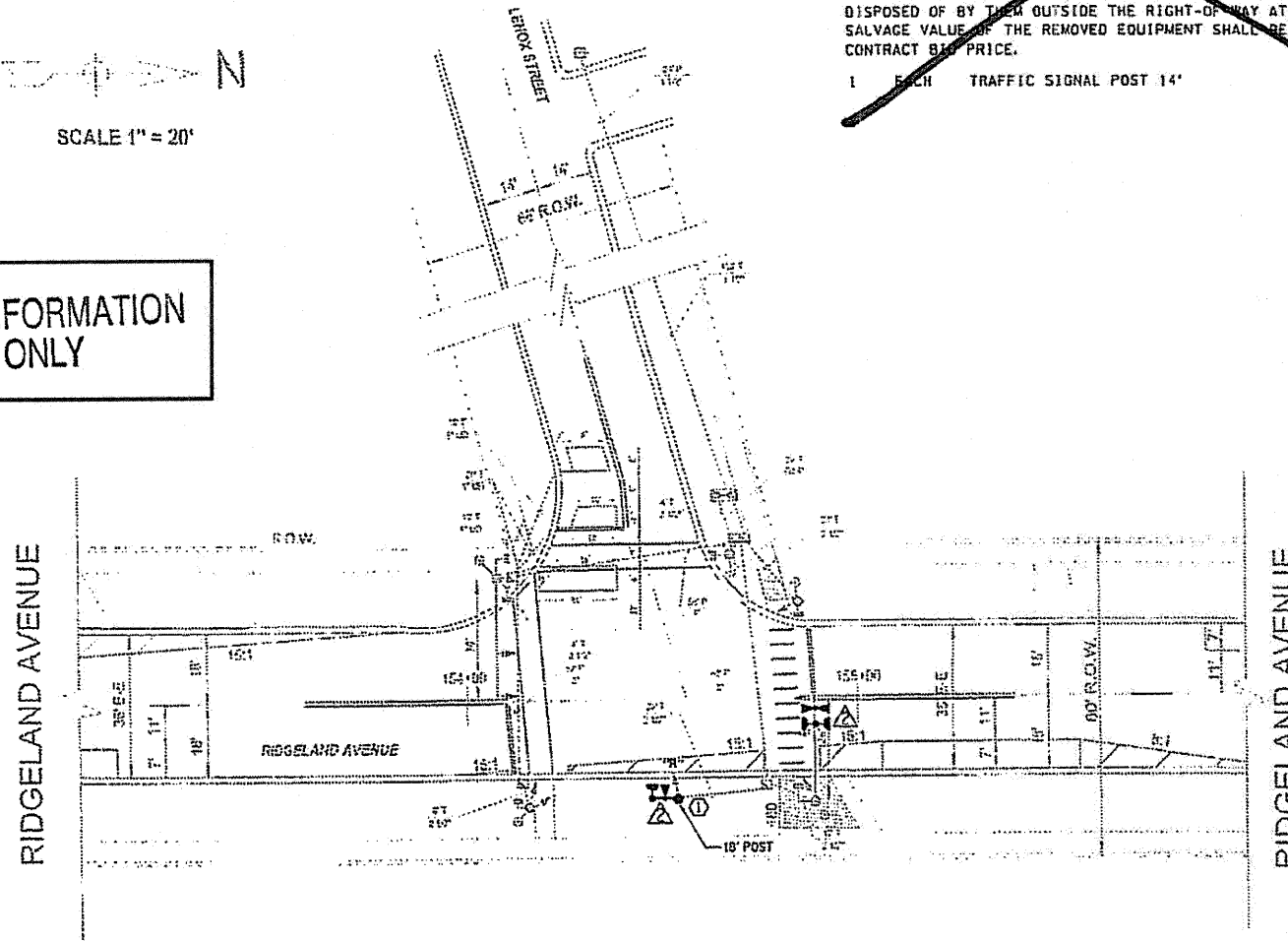
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH TRAFFIC SIGNAL POST 14'



SCALE 1" = 20'

FOR INFORMATION ONLY



TRAFFIC SIGNAL INSTALLATION PLAN

SCALE 1" = 20'

FOR INFORMATION ONLY

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

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BLACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH CRUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEGGIN		
SIGNAL HEAD OPTICALLY PROGRAMMED		
△ RELOCATED		

△ INSTALLATION OF EMERGENCY VEHICLE PREEMPTION
6-03-02

OAK PARK-SHEET 289 OF 365
CHRISTOPHER B. BURKE ENGINEERING LTD.
2375 West Higgins Road, Suite 200
Aurora, Illinois 60018
(847) 633-6200

KEEP THIS PLAN SHEET WITH THE REDUCED SET OF DRAWINGS.

DATE	BY	REVISIONS
03-20-05	ME	
6-03-02	CBEL	

ENGINEERING DIVISION

TRAFFIC SIGNAL INSTALLATION PLAN
RIDGELAND AVENUE AND LENOX STREET

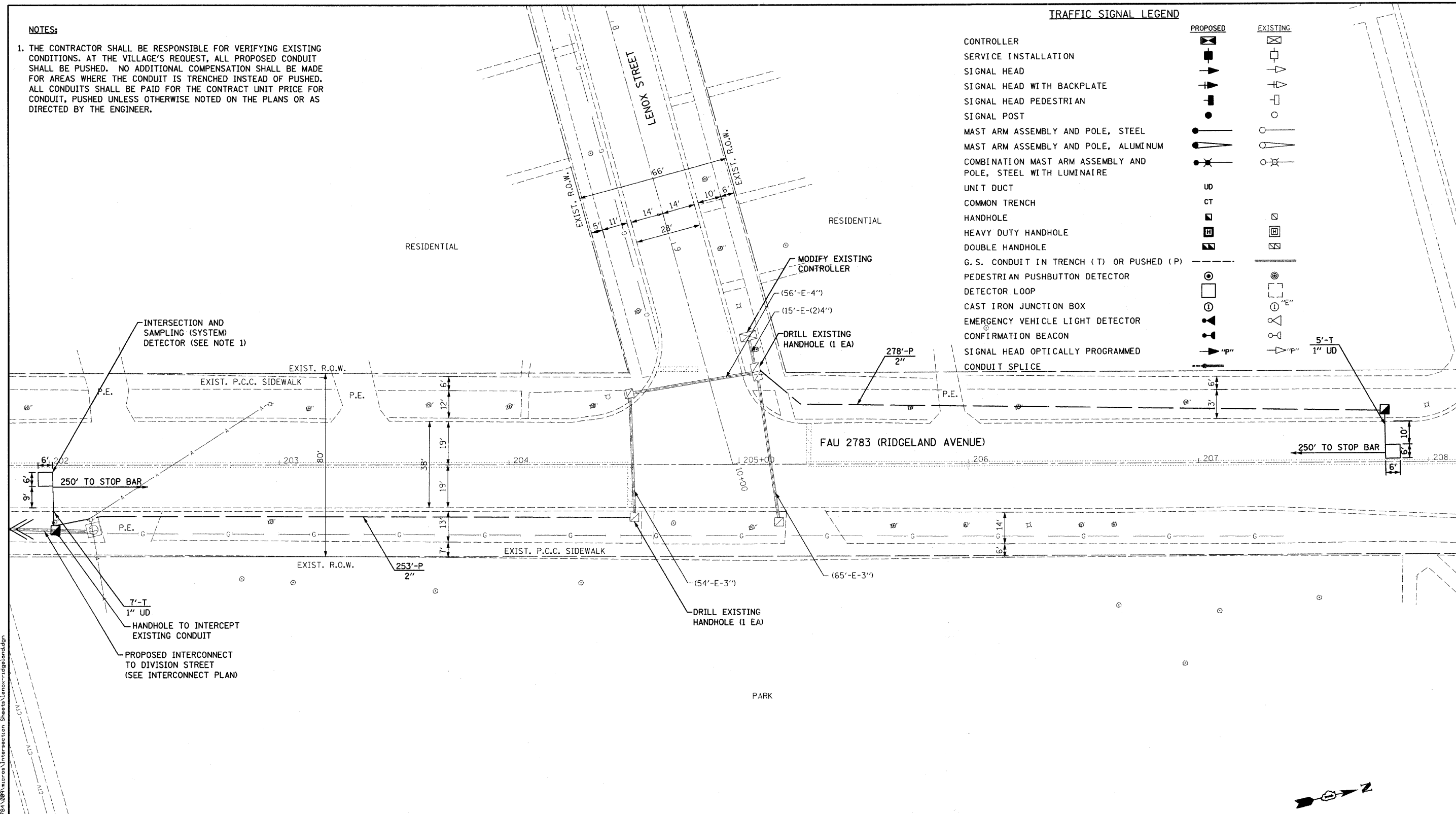
EXHIBIT

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

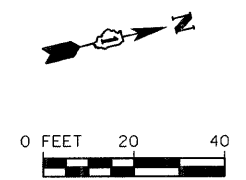
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		

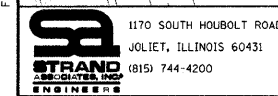


RESTORATION OF WORK AREA
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC., SHALL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

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



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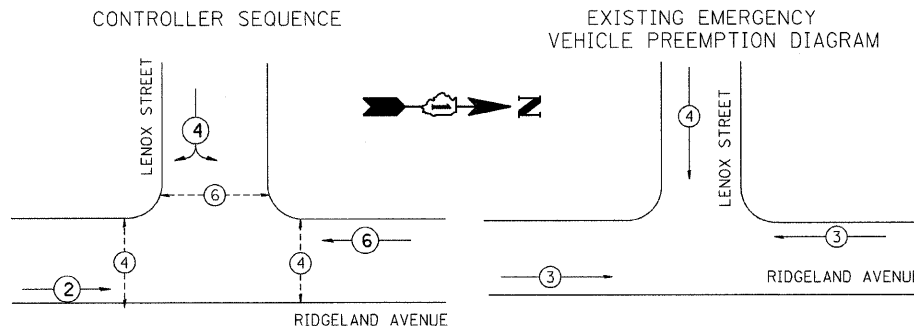
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PLOT SCALE = 20,0000 / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODIFICATION PLAN RIDGELAND AVENUE & LENOX STREET			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 43
CONTRACT NO. 63112				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ITEM	UNIT	QUANTITY
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14, 1 PAIR	FOOT	735
DETECTOR LOOP, TYPE 1	FOOT	67
INDUCTIVE LOOP DETECTOR	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
CONDUIT PUSHED, 2" DIAMETER, GALVANIZED STEEL	FOOT	531
DRILL EXISTING HANDHOLE	EACH	2

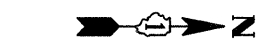


CONTROLLER SEQUENCE LEGEND

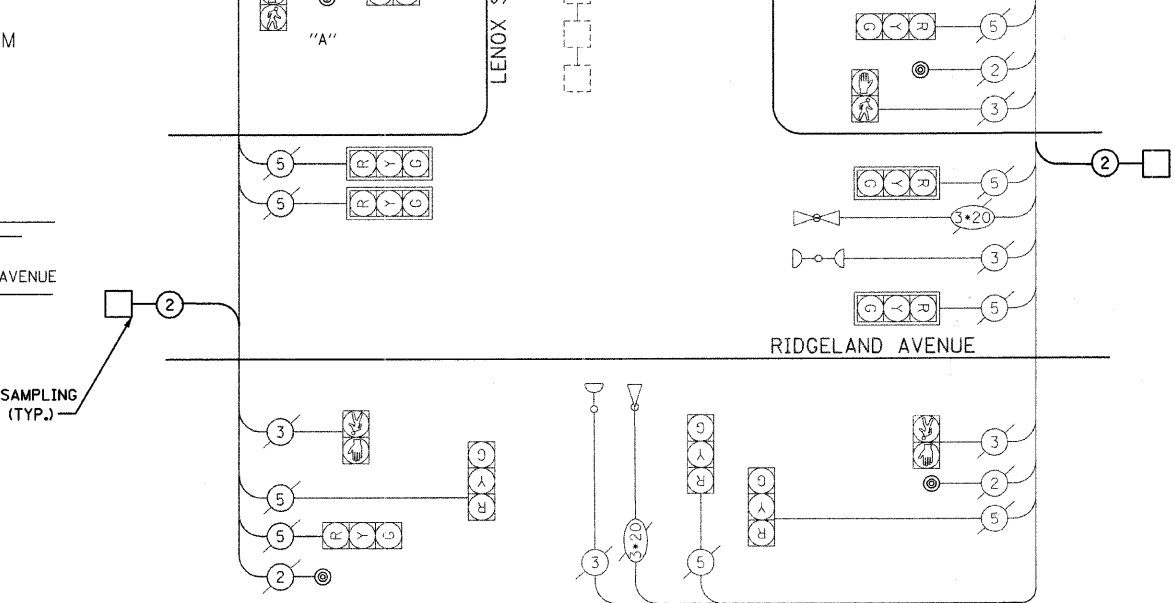
- DUAL ENTRY PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- PEDESTRIAN PHASE

EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

(DRAWING NOT TO SCALE)



FIBER OPTIC INTERCONNECTION TO DIVISION STREET
TRACER CABLE



EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE 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.
		GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

PUSH-BUTTON NOTES:
PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 4 AND 6.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		%OPERATION	
		INCAND.	LED		
SIGNAL (RED)	9	17		0.50	77
(YELLOW)	9		25	0.25	56
(GREEN)	9		15	0.25	34
ARROW	0		12	0.10	0
PED. SIGNAL	6		25	1.00	150
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0
FLASHER	2			0.50	0
ENERGY COSTS TO:					TOTAL = 417

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT: _____
PHONE: _____
COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	(6m±L-0.6m)±
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRICAL SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



USER NAME =	DESIGNED	REVISED
edamm	-	-
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN RIDGELAND AVENUE & LENOX STREET				
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA.	TO STA.

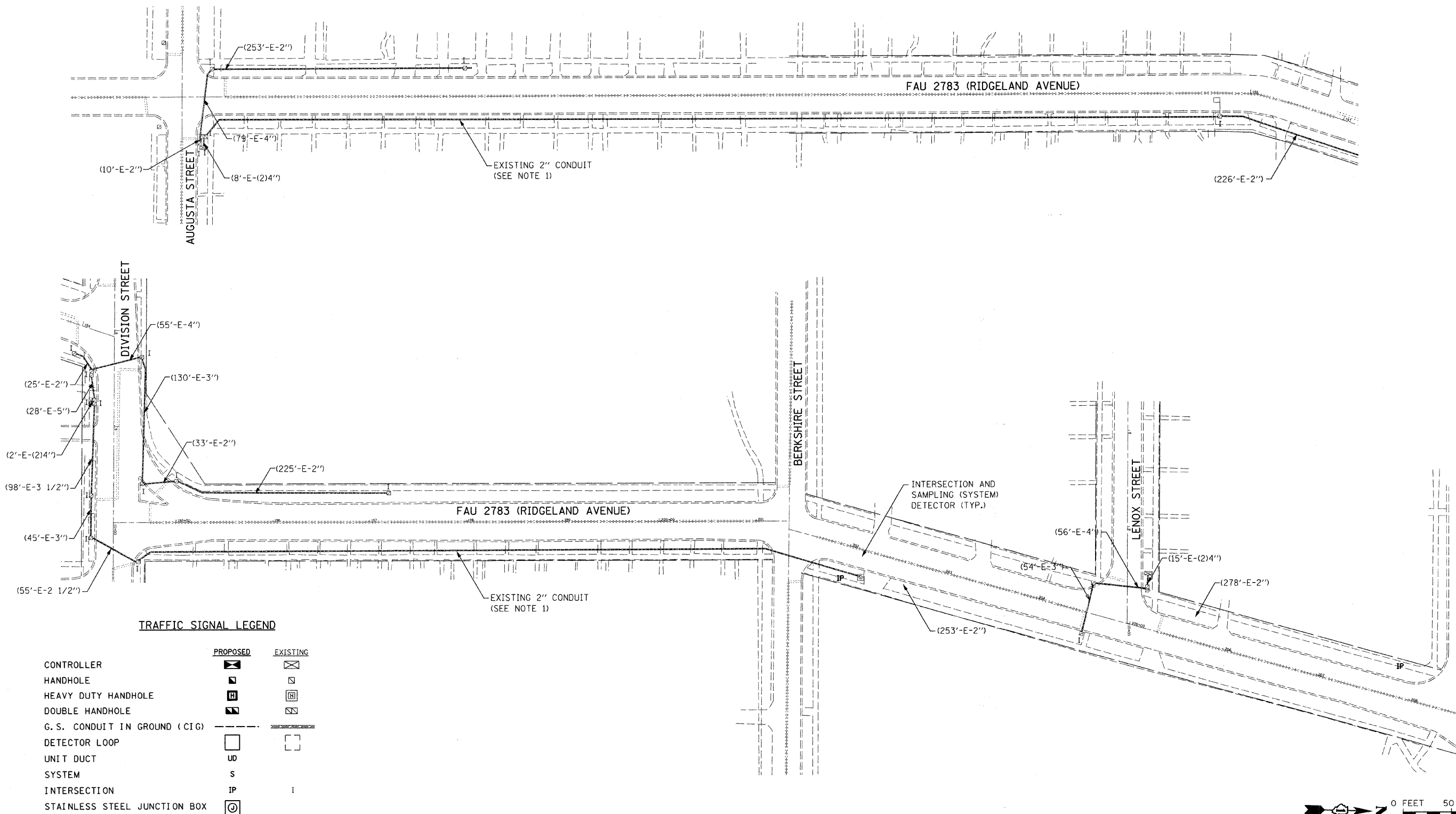
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	44
CONTRACT NO. 63112				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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RESTORATION OF WORK AREA

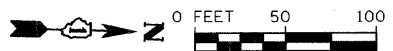
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS CONTROLLER, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, BRICK PAVEMENT, PAVEMENT, ETC., SHALL BE REPLACED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

1. THE CONTRACTOR SHALL PULL THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE FROM AUGUSTA STREET TO BERKSHIRE STREET THROUGH THE EXISTING CONDUIT ON THE EAST SIDE OF RIDGELAND AVENUE. IF THE CONDUIT IS DAMAGED PRIOR TO THE START OF CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL PUSH NEW 2" DIAMETER GALVANIZED STEEL CONDUIT ADJACENT TO THE EXISTING CONDUIT OR AT A LOCATION DETERMINED BY THE ENGINEER. THE PROPOSED FIBER OPTIC CABLE AND TRACER CABLE SHALL THEN BE PULLED THROUGH THE NEW CONDUIT.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
STAINLESS STEEL JUNCTION BOX		



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USER NAME = adam	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

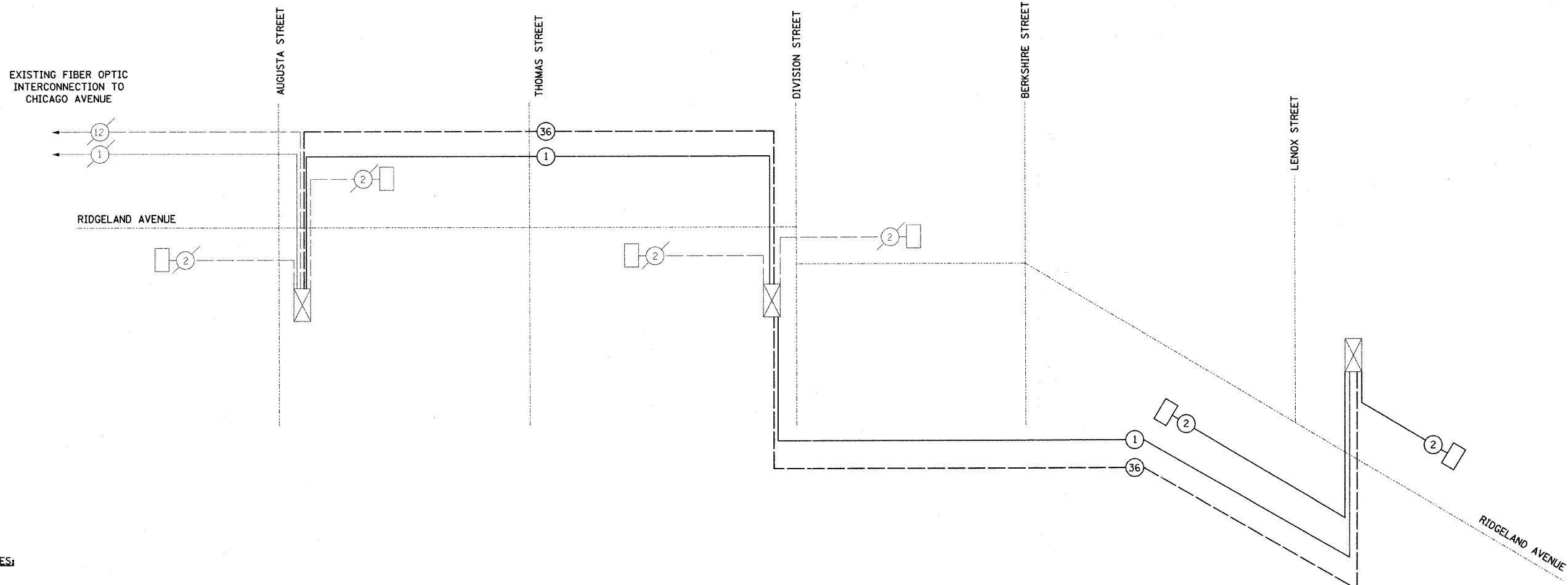
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIDGELAND AVENUE INTERCONNECT PLAN

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63112				

ITEM	UNIT	TOTAL
TRANSCIVER - FIBER OPTIC	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO 14/1C	FOOT	2901
FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F SM 12F	FOOT	2901



NOTES:

1. REOPTIMIZATION OF THE TRAFFIC SIGNAL SYSTEM SHALL BE PERFORMED BY OTHERS.
2. ALL DETECTOR LOOPS SHOWN ARE INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.

• NOT TO SCALE

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
ENGINEERS

USER NAME = edamm	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

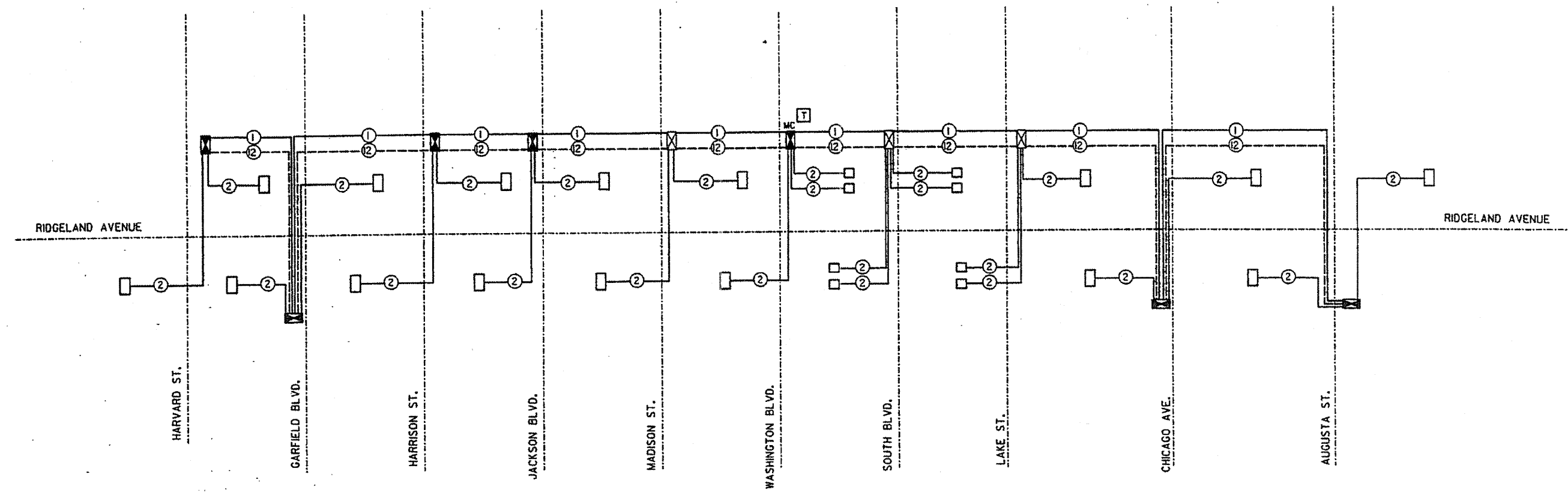
RIDGELAND AVENUE INTERCONNECT SCHEMATIC

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

F.A.G. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	46
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63112				

S.D. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2783	93-0026-00-PV	COOK	64	47
STA.	TR. STA.	NO. OF PROJECT		

FOR INFORMATION ONLY



~~NOTES:
 1) INTERCONNECT SYSTEM CONDUITS, HANDHOLES AND LOOPS ARE SHOWN IN DETAIL IN SYSTEM INTERCONNECT PLAN.
 2) THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE 'ECONOLITE'.~~

INTERCONNECT SCHEMATIC LEGEND

EXIST.	PROP.	
		CONTROLLER
		G.S. CONDUIT IN TRENCH OR PUSHED
		INTERSECTION AND SAMPLING (SYSTEM) DETECTORS
		INTERCONNECT CABLE NO. 62.5/125 IZP FIBER OPTIC CABLE
		LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
		TRACER CABLE NO. 10 I/C
EMC	MC	MASTER CONTROLLER
		TELEPHONE CONNECTION

FOR INFORMATION ONLY

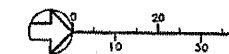
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCONNECT SCHEMATIC
 RIDGELAND AVENUE
 HARVARD ST. TO AUGUSTA ST.
 SCALE: NONE
 DATE: 09-04-98
 DRAWN BY: CSL
 CHECKED BY: WSA

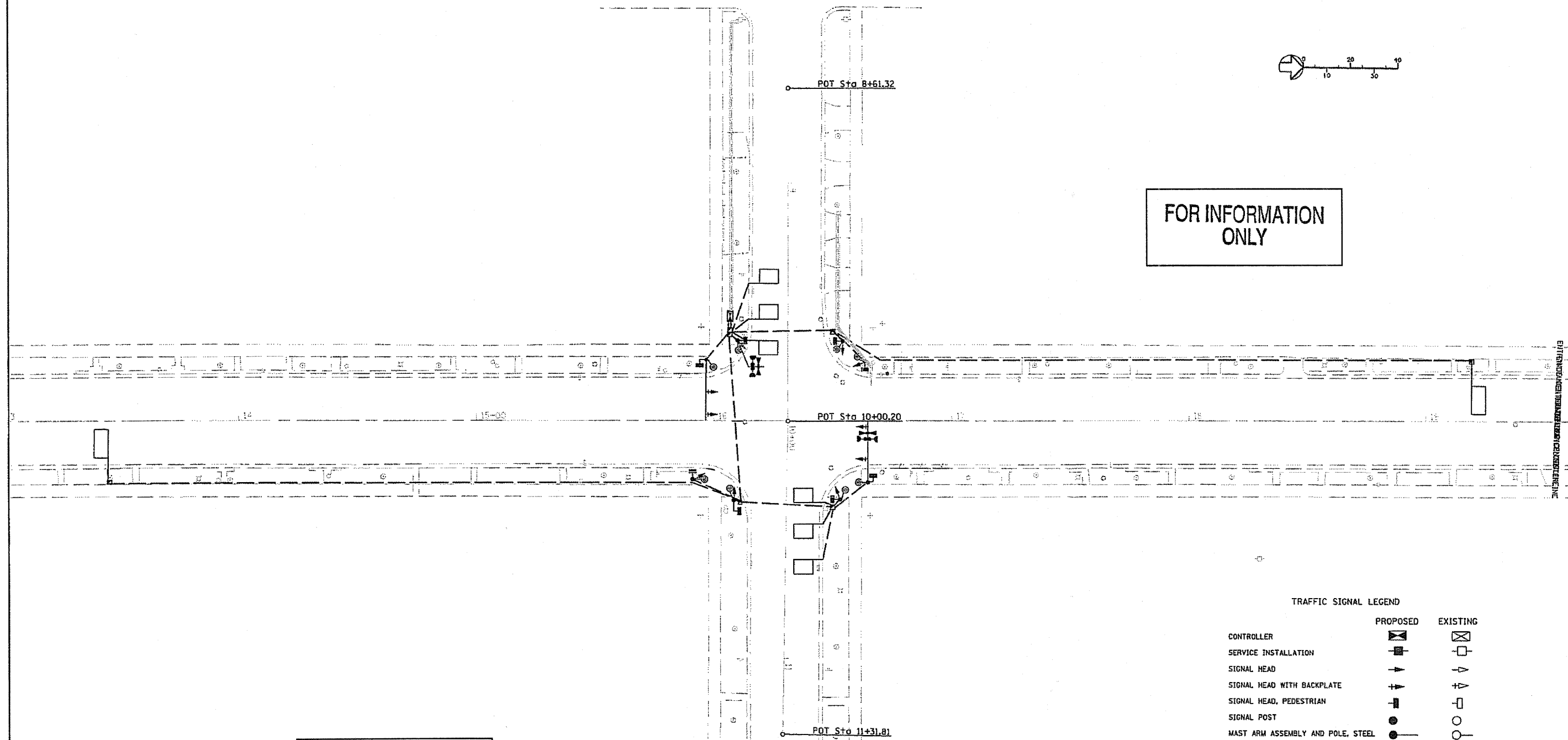
KEI KAM ENGINEERING, INC.
 CONSULTING ENGINEERS
 707A Grand Road, Suite 205
 Elgin, Illinois 60123-1389

F:\DCM\10897-2\INTSCH.DGN 9/6

03112



FOR INFORMATION ONLY



FOR INFORMATION ONLY

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
COMBINATION MAST ARM		
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		

VILLAGE OF OAK PARK
ENGINEERING DIVISION

PROJECT NO. 08-13	PROJECT NAME: TRAFFIC SIGNAL INSTALLATION AT OAK PARK AVE. & HARVARD ST.
DESIGNED BY:	SCALE: 1" = 20'
DESIGNED CHK:	DRAWN BY:
	DRAWING CHK:
	DATE: Apr 11 2008

SIGNAL PLANS

SHEET: 48 OF 64
63112

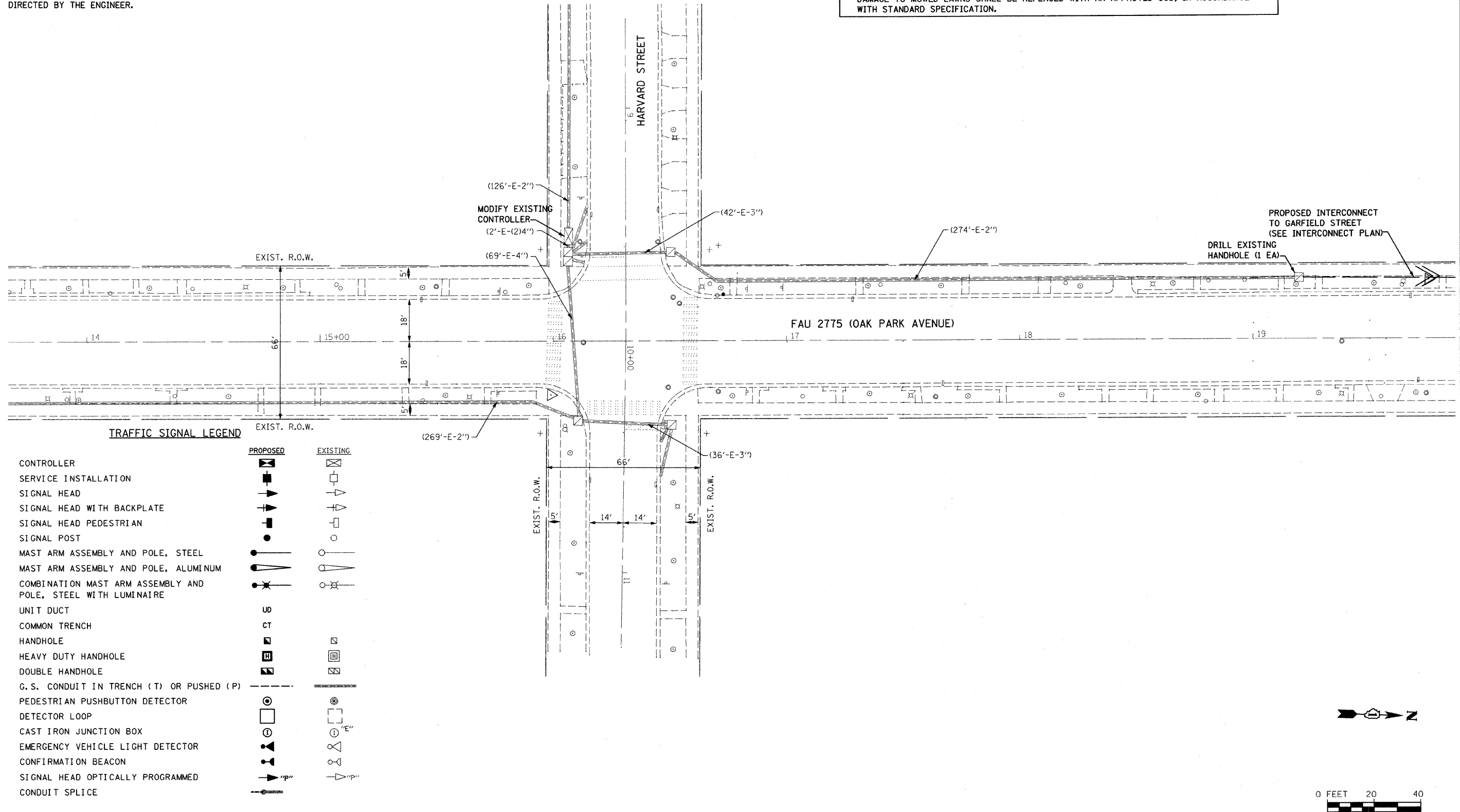
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

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, IN ACCORDANCE WITH STANDARD SPECIFICATION.

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



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	UB	[Symbol]
COMMON TRENCH	CT	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	T/P	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]

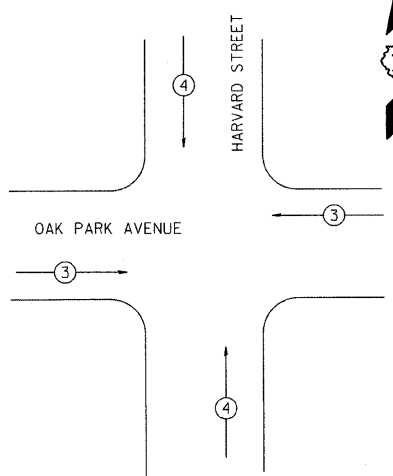


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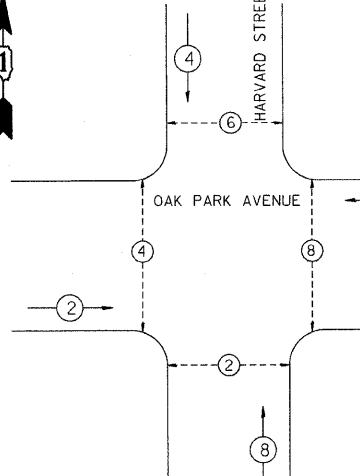
<p>1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200</p>	USER NAME = adam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN HARVARD STREET & OAK PARK AVENUE				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000' / IN.	DRAWN -	REVISED -		1412	07-00245-00-TL	COOK	64	49				
	PLOT DATE = 5/26/2009	CHECKED -	REVISED -		CONTRACT NO. 63112								
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
					SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA.	TO STA.				

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1

EXISTING EMERGENCY VEHICLE PREEMPTION DIAGRAM



EXISTING CONTROLLER SEQUENCE



CONTROLLER SEQUENCE LEGEND

- ⊙ → DUAL ENTRY PHASE
 - * → NUMBER REFERS TO ASSOCIATED PHASE
 - ⊙ → PEDESTRIAN PHASE
- (DRAWING NOT TO SCALE)

PHASE DESIGNATION DIAGRAM



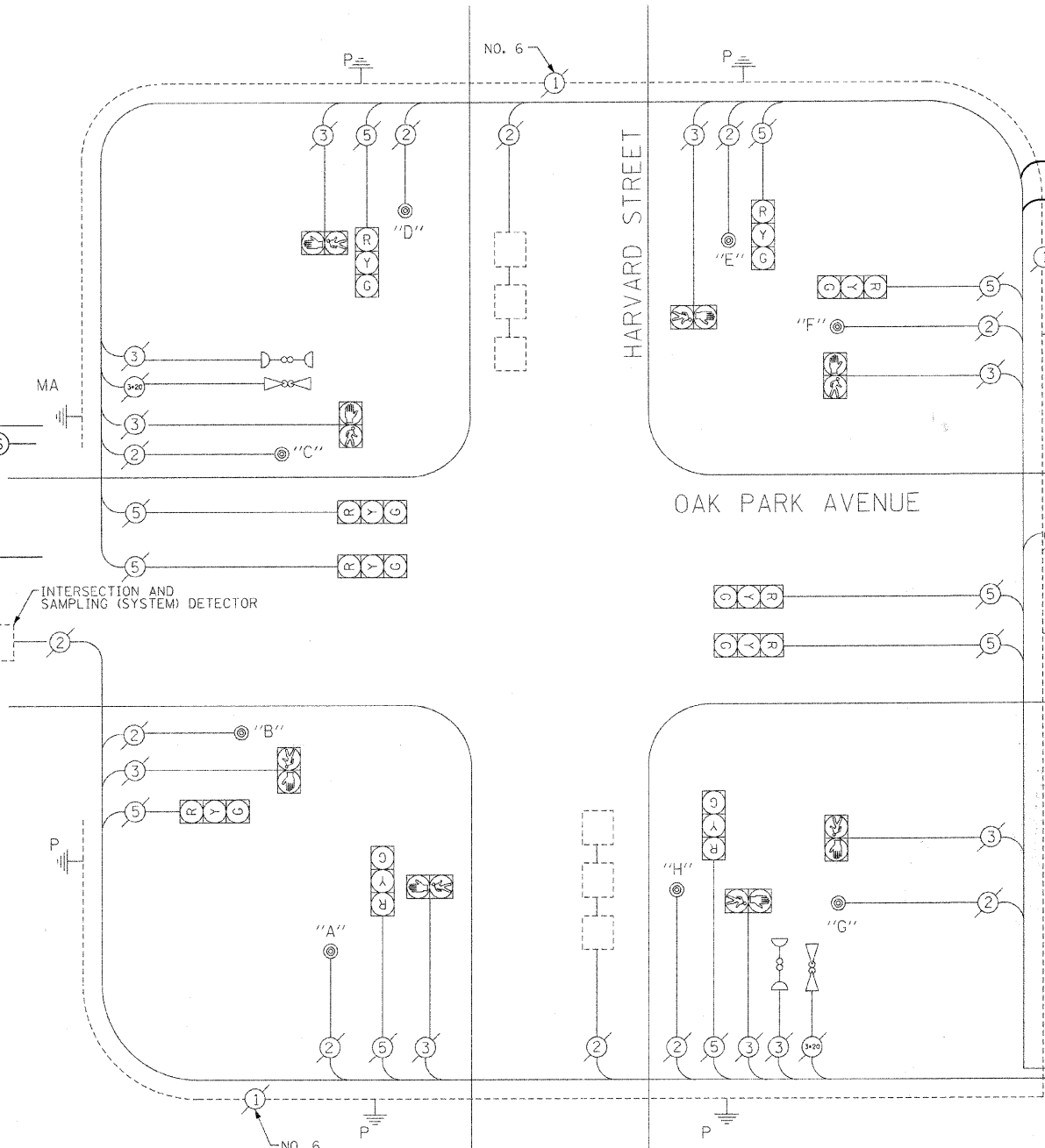
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		%OPERATION	
		INCAND.	LED		
SIGNAL (RED)	10		17	0.50	85
(YELLOW)	10		25	0.25	63
(GREEN)	10		15	0.25	38
ARROW	0		12	0.10	0
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0
FLASHER	1			0.50	0

ENERGY COSTS TO: TOTAL = 486

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT:
 PHONE:
 COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'= (6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
30" (750 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
36" (900 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRICAL SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



CABLE PLAN LEGEND

- | EXISTING | PROPOSED | |
|----------|----------|---|
| ⊙ | ⊙ | 8" (200mm) TRAFFIC SIGNAL SECTION |
| ⊙ | ⊙ | 12" (300mm) TRAFFIC SIGNAL SECTION |
| ⊙ | ⊙ | 12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS) |
| ⊙ | ⊙ | 12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS) |
| ⊙ | ⊙ | CONTROLLER CABINET |
| ⊙ | ⊙ | SERVICE INSTALLATION |
| ⊙ | ⊙ | TELEPHONE INSTALLATION |
| ⊙ | ⊙ | VEHICLE DETECTOR, INDUCTIVE 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-MMI2F SM12F |
| ⊙ | ⊙ | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. |
| ⊙ | ⊙ | ⊙ GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| ⊙ | ⊙ | ⊙ GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| ⊙ | ⊙ | ⊙ GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

PUSH-BUTTON NOTES
 PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSH-BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
 PUSH-BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8



USER NAME = adam	DESIGNED -	REVISED -
PLOT SCALE = 20.7130' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

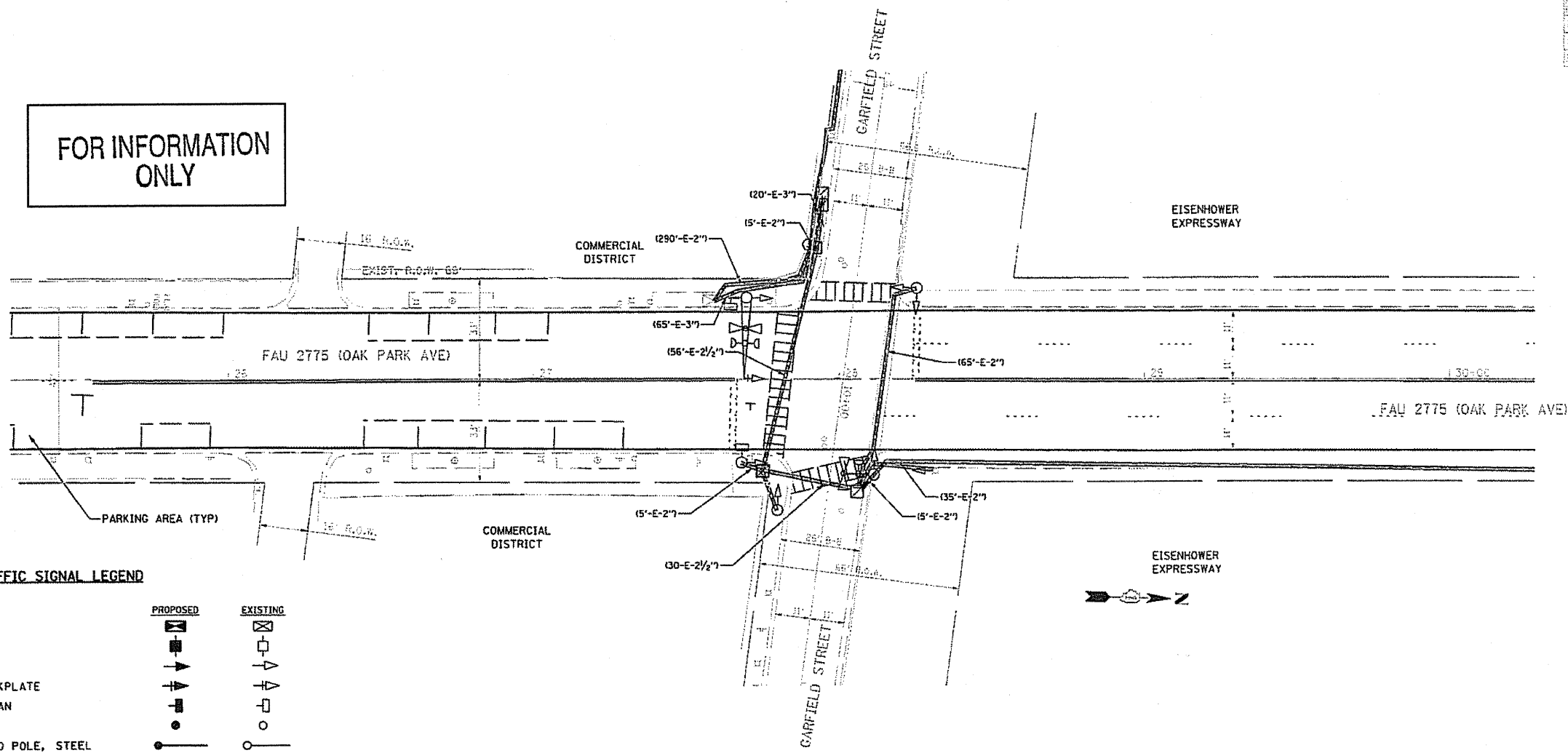
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN
 HARVARD STREET AT OAK PARK AVENUE
 SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	50
CONTRACT NO. 63112				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SECTION	COUNTY	TOTAL SHEETS
64		51
STATE	TO STA.	
ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



TRAFFIC SIGNAL LEGEND

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

FOR INFORMATION ONLY

	REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAU 2775 OAK PARK AVENUE TRAFFIC SIGNAL MODIFICATION PLAN OAK PARK AVE & GARFIELD ST
	NAME	DATE	
SCALE: VERT. 1"=20' HORIZ. 1"=20' DATE 11/20/2008	DRAWN BY BLP CHECKED BY JSH	63112	

TIME: 2:56:08 PM

DATE: 11/20/2008

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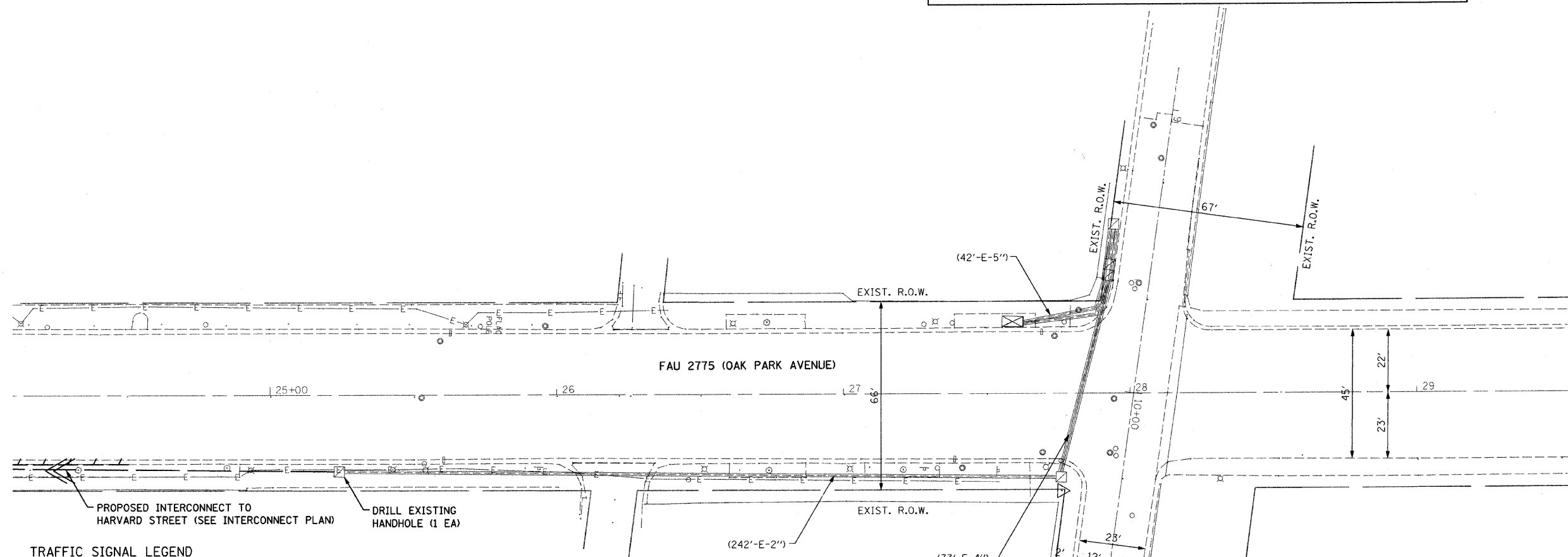
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. AT THE VILLAGE'S REQUEST, ALL PROPOSED CONDUIT SHALL BE PUSHED. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR AREAS WHERE THE CONDUIT IS TRENCHED INSTEAD OF PUSHED. ALL CONDUITS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR CONDUIT, PUSHED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

RESTORATION OF WORK AREA

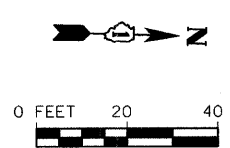
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC., SHALL BE REPLACED IN KIND.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

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



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		



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STRAND
ENGINEERS
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

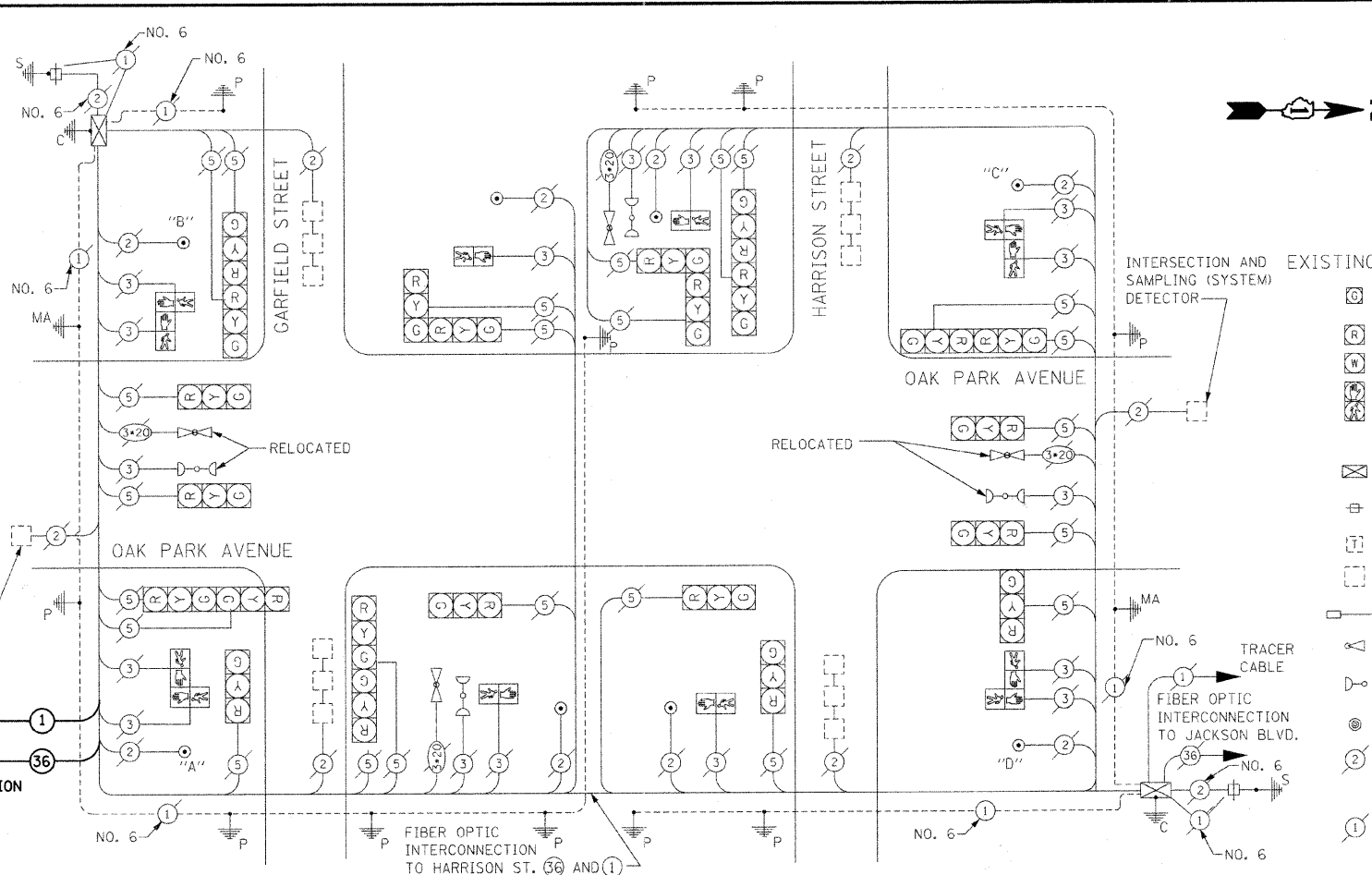
USER NAME = adamm	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODIFICATION PLAN GARFIELD STREET & OAK PARK AVENUE			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	52
CONTRACT NO. 63112				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

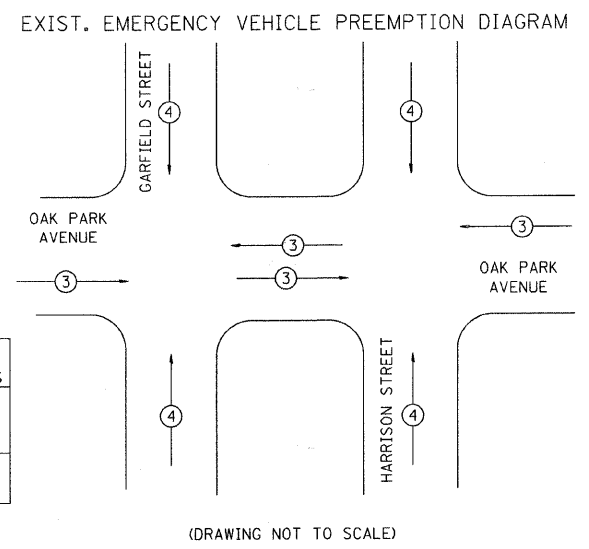
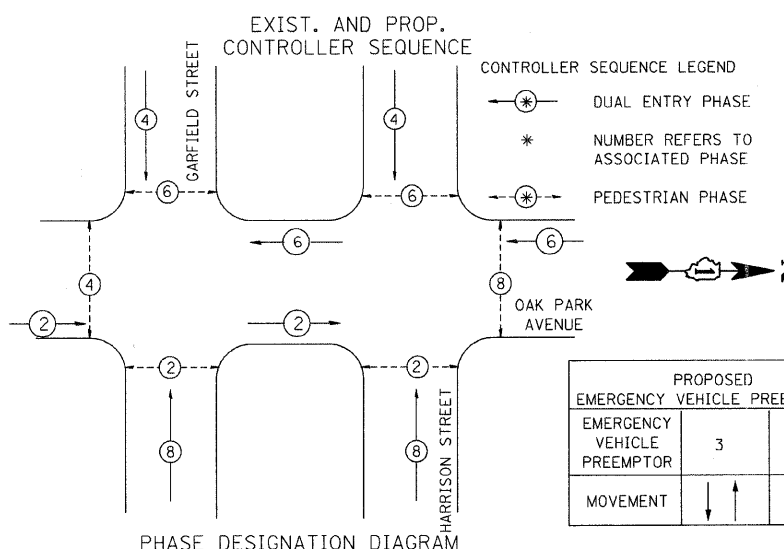
ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTIVE LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		C GROUND CABLE 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

TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET (TYP)



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	0		12	0.10	0
PED. SIGNAL	5		25	1.00	125
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0

ENERGY COSTS TO:

FLASHER	1		0.50	0
TOTAL =				532

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT: _____
 PHONE: _____
 COMPANY: Commonwealth Edison

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



USER NAME = edamm	DESIGNED -	REVISED -
PLOT SCALE = 20,6800' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

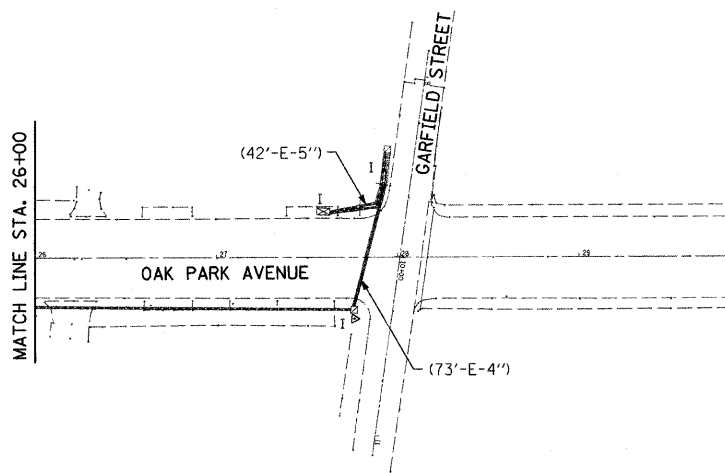
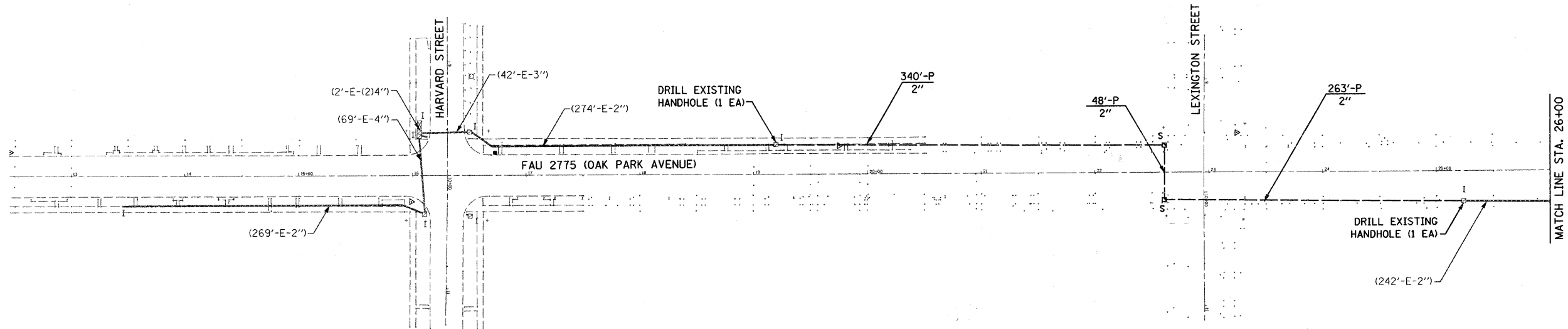
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN
GARFIELD AND HARRISON STREET AT OAK PARK AVENUE**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

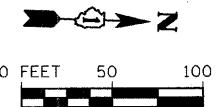
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	53
CONTRACT NO. 63112				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

RESTORATION OF WORK AREA
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS CONTROLLER, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, BRICK PAVER, PAVEMENT, ETC., SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, IN ACCORDANCE WITH STANDARD SPECIFICATION.



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G. S. CONDUIT IN GROUND (CIG)		
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
STAINLESS STEEL JUNCTION BOX		



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STRAND ASSOCIATES, INC.
 ENGINEERS
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

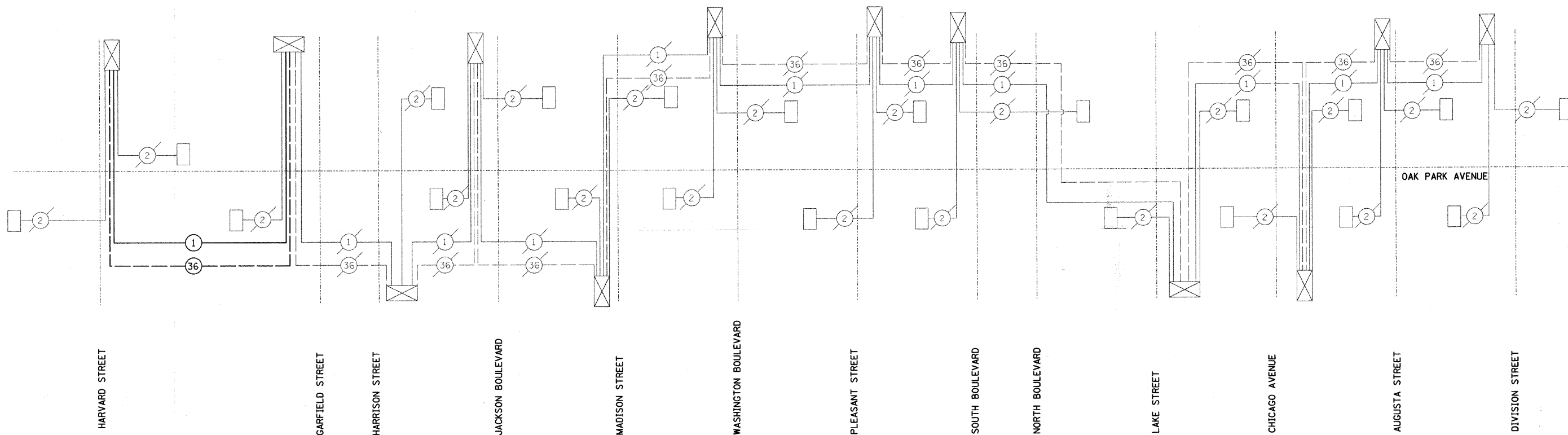
USER NAME = adam	DESIGNED -	REVISED -
PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 5/26/2009	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

OAK PARK AVENUE INTERCONNECT PLAN

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	07-00245-00-TL	COOK	64	54
CONTRACT NO. 63112				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



NOTES:

1. REOPTIMIZATION OF THE TRAFFIC SIGNAL SYSTEM SHALL BE PERFORMED BY OTHERS.
2. ALL DETECTOR LOOPS SHOWN ARE INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.

ITEM	UNIT	TOTAL
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	651
HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO 14/1C	FOOT	1432
FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F SM 12F	FOOT	1432
DRILL EXISTING HANDHOLE	EACH	2

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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = edamm	DESIGNED -	REVISED -
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -
	PLOT DATE = 5/26/2009	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

OAK PARK AVENUE INTERCONNECT SCHEMATIC

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

F.A.J. RTE. 1412	SECTION 07-00245-00-TL	COUNTY COOK	TOTAL SHEETS 64	SHEET NO. 55
CONTRACT NO. 63112				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE) SEE STATE STANDARD 606001

18" (450) MAX.

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

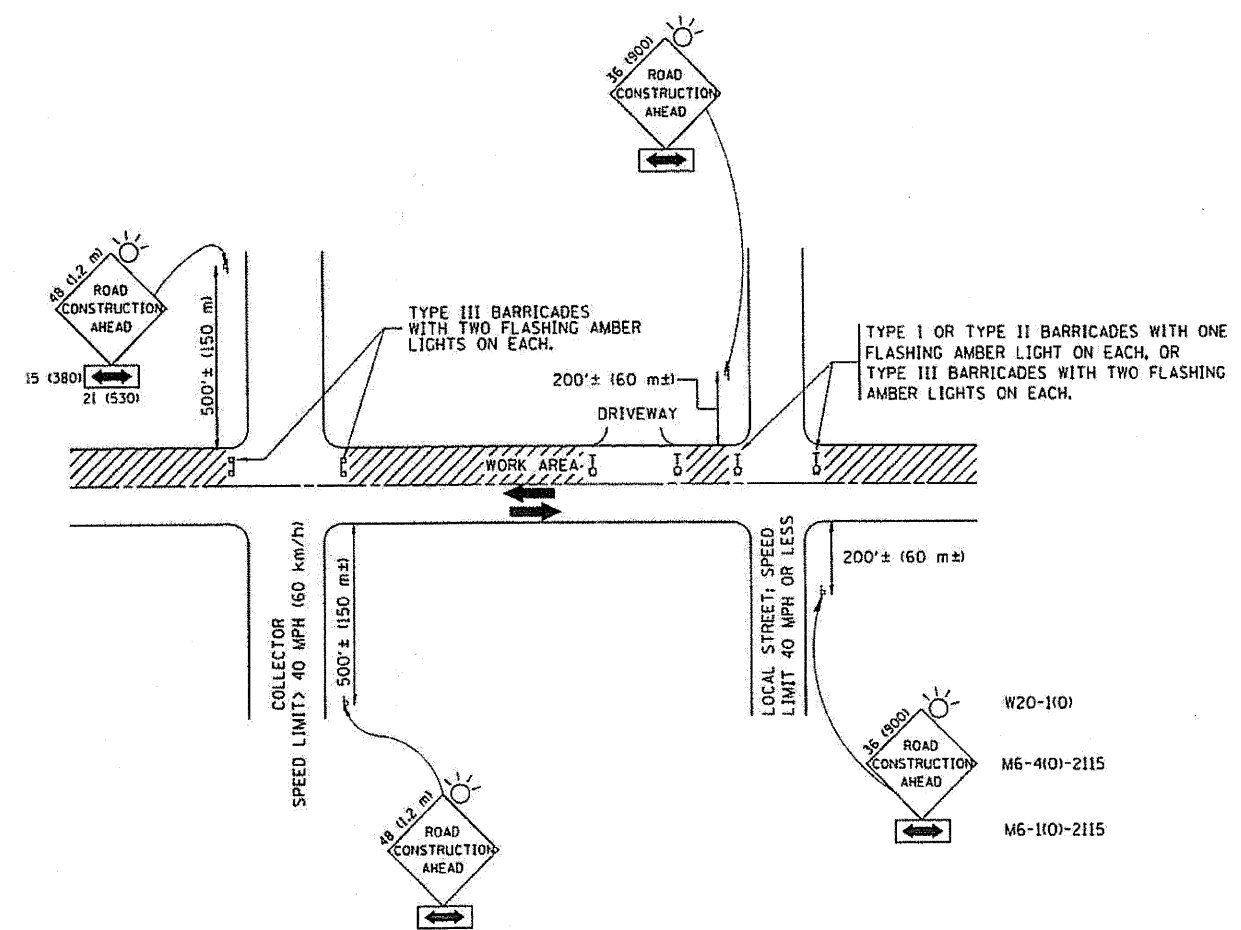
⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME * W:\ds\std\22\34\bd24.dgn	USER NAME * ggglicnbt	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	BD600-06 (BD-24)	CONTRACT	64	56
		CHECKED -	REVISED - M. GOMEZ 01-22-01		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
		PLOT DATE - 1/4/2008	DATE - 03-11-94											



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.

FILE NAME *	USER NAME * ggg1ienabt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
V:\dststd\22-34\1\td.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

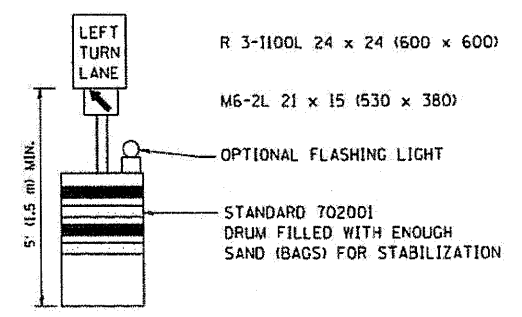
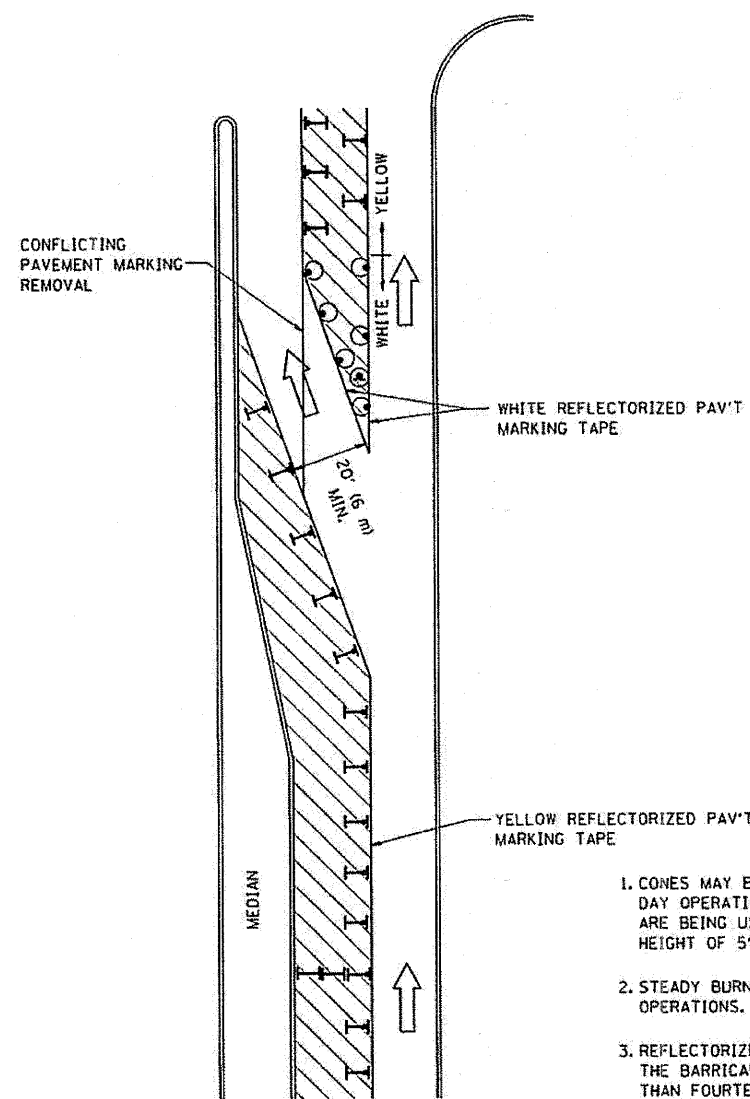
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-10	CONTRACT	64	57
FED. ROAD DIST. HO. 1 ILLINOIS FED. AID PROJECT				

63112

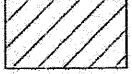







GENERAL NOTES

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 BT 725 IS REQUIRED.
8. 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

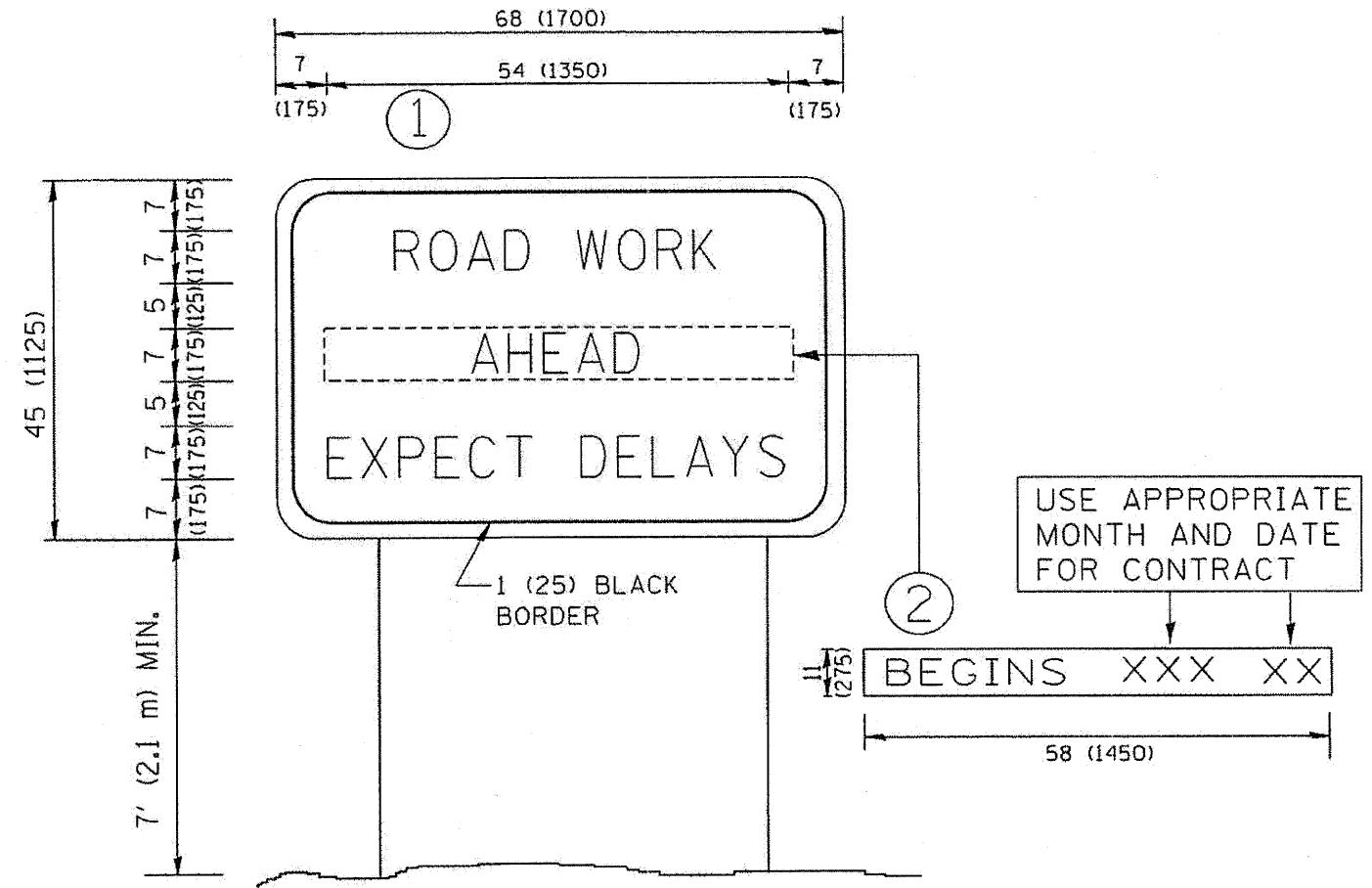
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = goglineobc	DESIGNED -	REVISED -T, RAMMACHER 09-08-94
W:\detroit\22-34\vol4.dgn		DRAWN -	REVISED - A. HOUSEH 11-07-95
	PLOT SCALE = 50.0000 / IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 1/4/2008	DATE -	REVISED -T, RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				TC-14		64	58
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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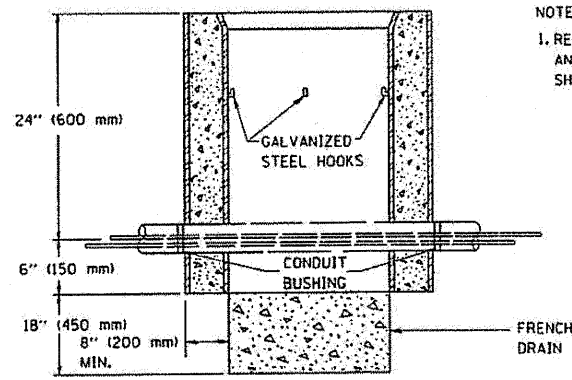
NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

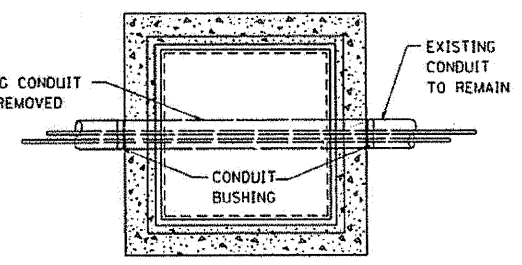
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\detroit\22-34\1c22.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS			STA.	TO STA.		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT			CONTRACT		64	59
		DATE -	REVISED - C. JUCIUS 01-31-07		TC-22			CONTRACT			64		59	

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NOTES:
 1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



ELEVATION

PLAN

DETAIL
 HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME * W:\dist\std\22x34\ts03.dgn	USER NAME * gogliorabt	DESIGNED -	REVISED - 10-01-00
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / 1" = 1'	CHECKED -	REVISED -
	PLOT DATE = 1/4/2009	DATE -	REVISED -

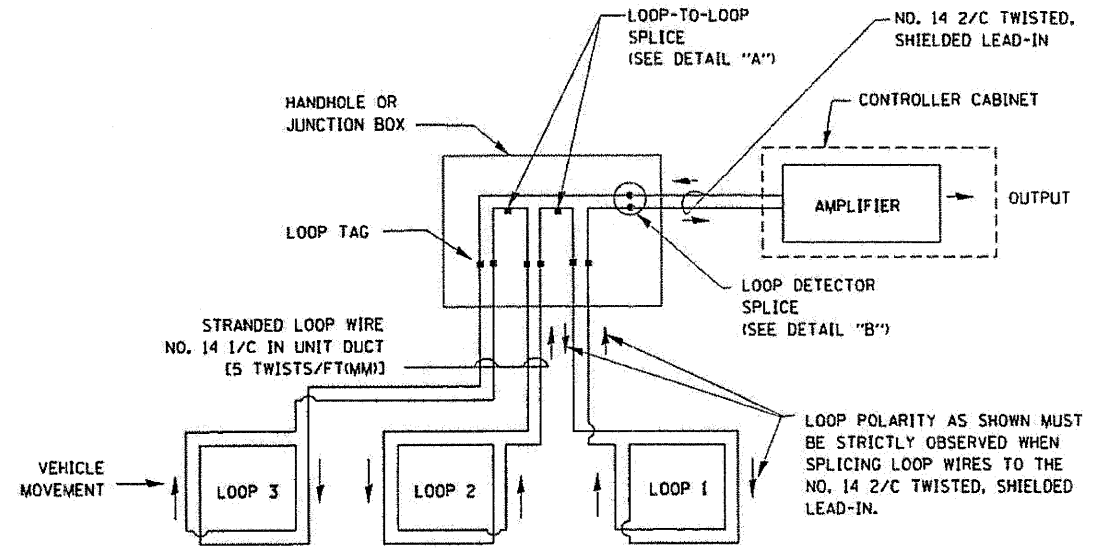
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HANDHOLE TO INTERCEPT EXISTING CONDUIT		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TS-03	CONTRACT	64 60
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

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LOOP DETECTOR NOTES

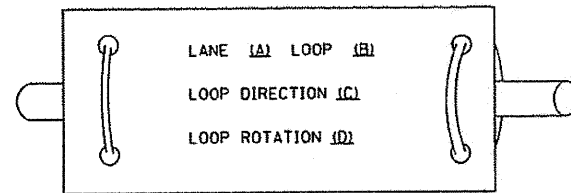
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED 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 DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
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.



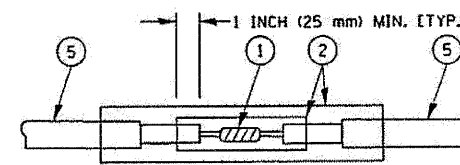
DETECTOR LOOP WIRING SCHEMATIC

- 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.

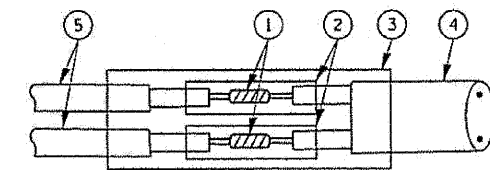
LOOP LEAD-IN CABLE TAG



- 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

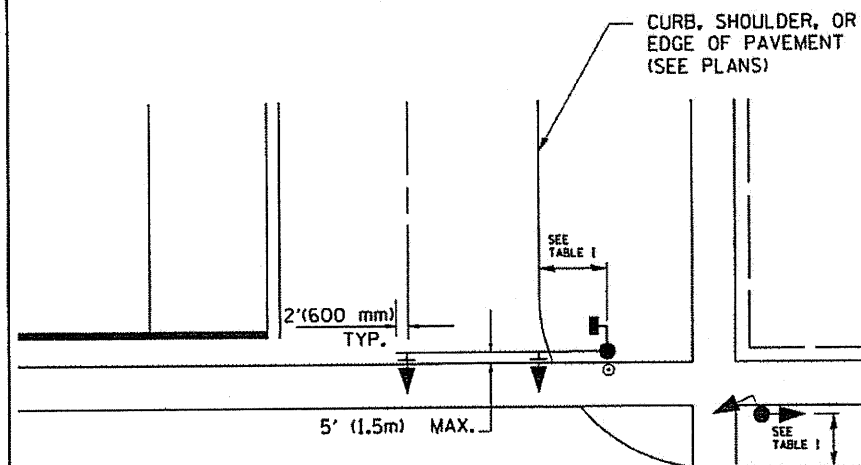
- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED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

FILE NAME *	USER NAME * geglionobt	DESIGNED - D.A.D.	REVISED - 11-12-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\drt\std\22-34\ts05.dgn		DRAWN - R.W.P.	REVISED - BUR, TRAFFIC 01-01-02		SCALE: NONE	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.	TS-05	CONTRACT	64	61
		PLOT SCALE = 50.0000 / IN.	CHECKED - D.A.Z.									
		PLOT DATE = 1/4/2008	DATE - 05-30-00									

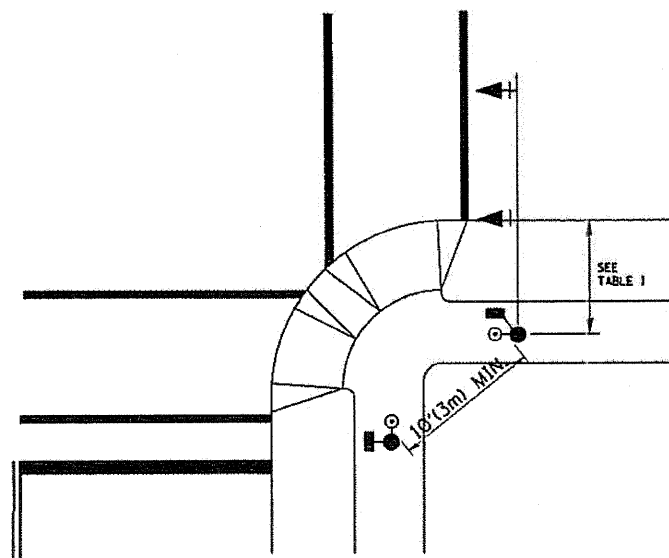
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TRAFFIC SIGNAL MAST ARM AND POST

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

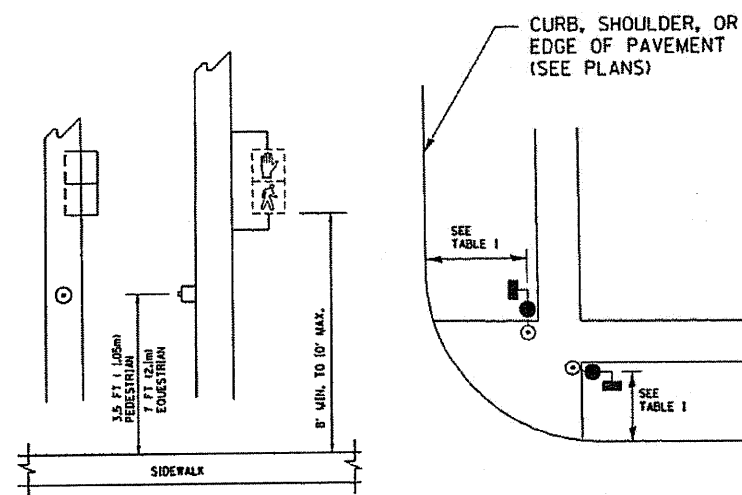
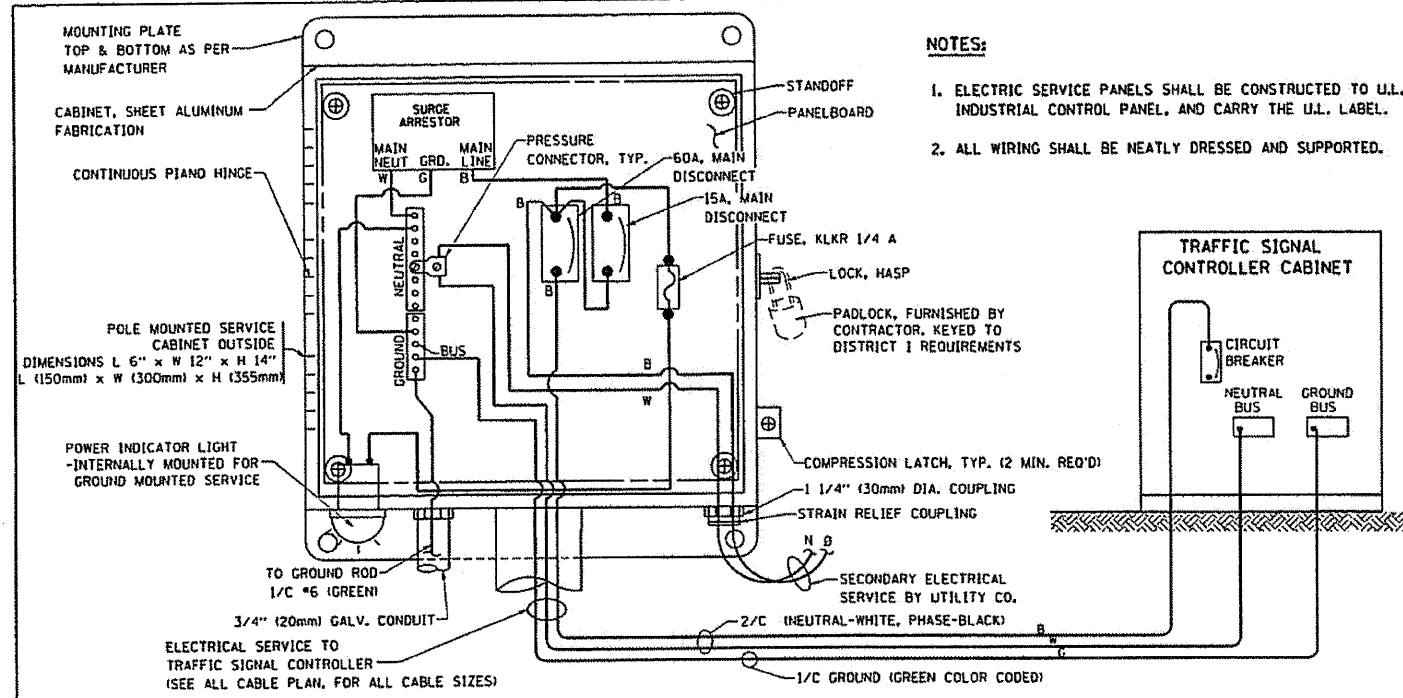
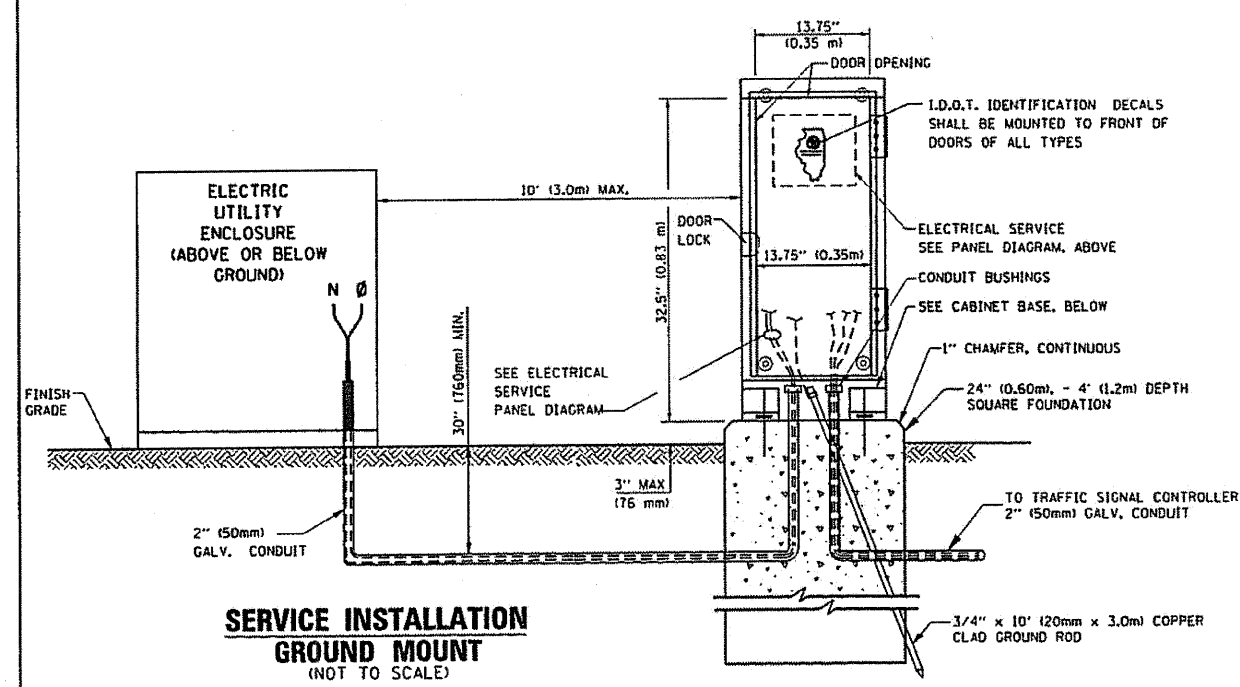


TABLE I

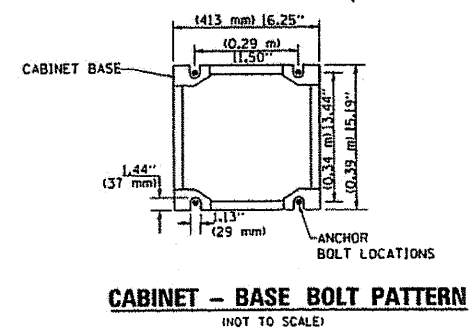
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m),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



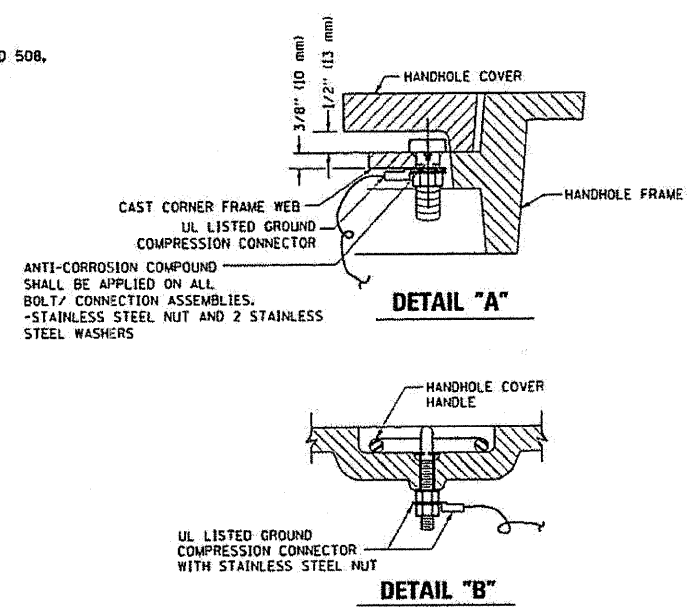
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

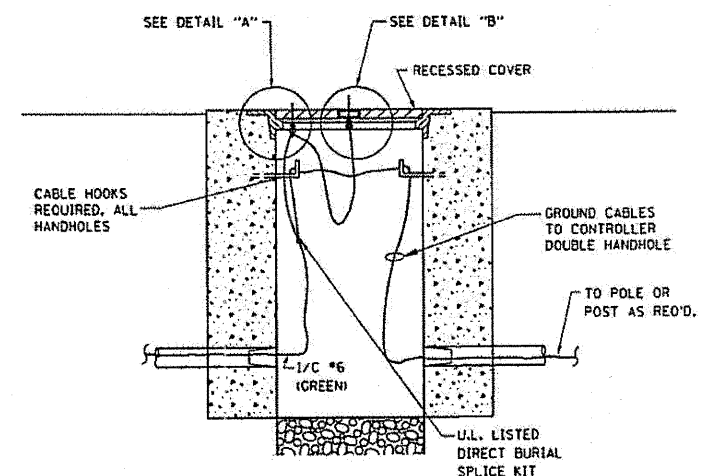


CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

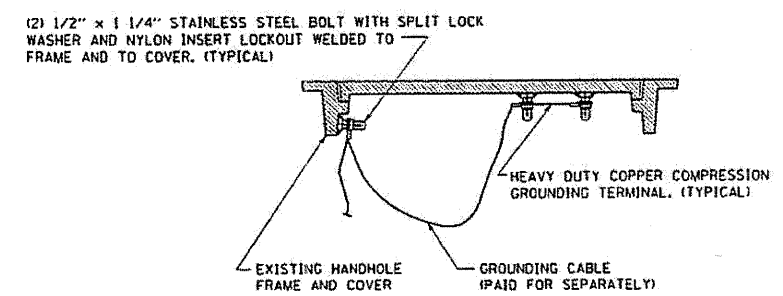


NOTES:
GROUNDING SYSTEM

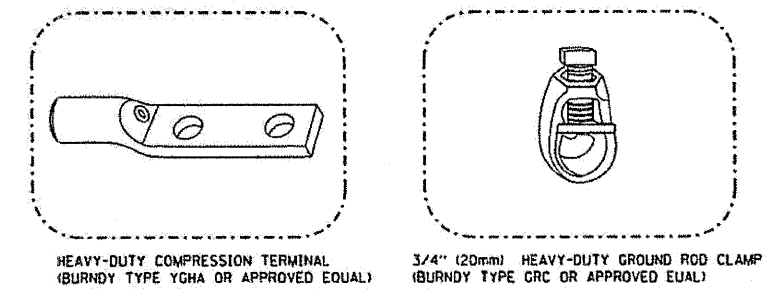
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE,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



HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

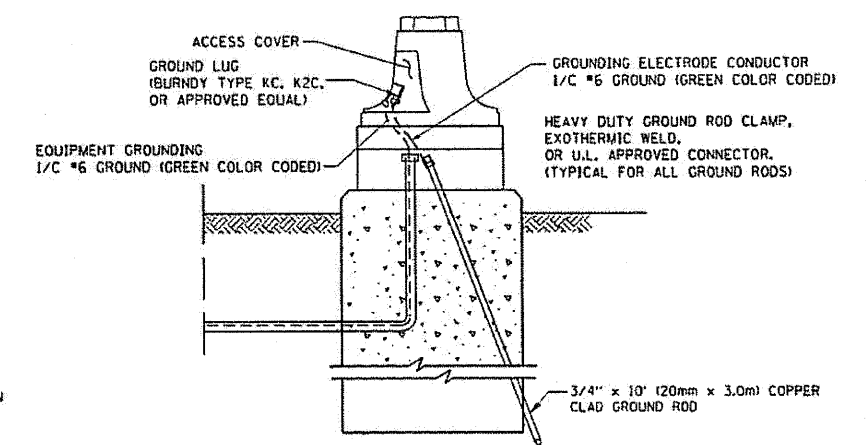


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



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)

FILE NAME = V:\projects\22-24\ts05.dgn	USER NAME = gagliardi	DESIGNED - D.A.D.	REVISED - 03-15-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - R.W.P.	REVISED - BUR. TRAFFIC 01-01-02			STANDARD TRAFFIC SIGNAL DESIGN DETAILS						
		CHECKED - D.A.Z.	REVISED -			SCALE: NONE	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.	CONTRACT		
		DATE - 05-30-00	REVISED -							FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		

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