

NOTES

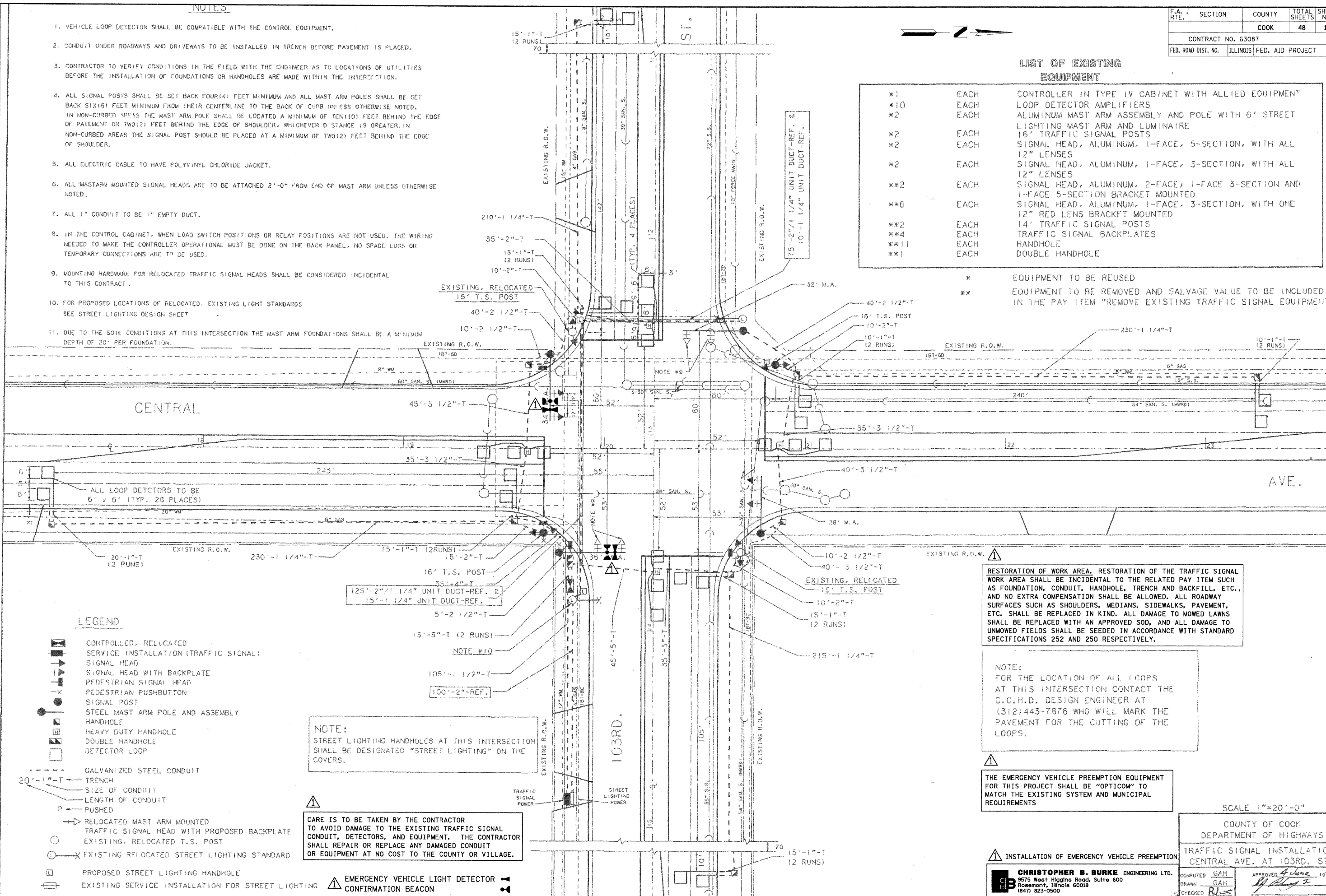
1. VEHICLE LOOP DETECTOR SHALL BE COMPATIBLE WITH THE CONTROL EQUIPMENT.
2. CONDUIT UNDER ROADWAYS AND DRIVEWAYS TO BE INSTALLED IN TRENCH BEFORE PAVEMENT IS PLACED.
3. CONTRACTOR TO VERIFY CONDITIONS IN THE FIELD WITH THE ENGINEER AS TO LOCATIONS OF UTILITIES BEFORE THE INSTALLATION OF FOUNDATIONS OR HANDHOLES ARE MADE WITHIN THE INTERSECTION.
4. ALL SIGNAL POSTS SHALL BE SET BACK FOUR(4) FEET MINIMUM AND ALL MAST ARM POLES SHALL BE SET BACK SIX(6) FEET MINIMUM FROM THEIR CENTERLINE TO THE BACK OF CURB UNLESS OTHERWISE NOTED. IN NON-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN(10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO(2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN NON-CURBED AREAS THE SIGNAL POST SHOULD BE PLACED AT A MINIMUM OF TWO(2) FEET BEHIND THE EDGE OF SHOULDER.
5. ALL ELECTRIC CABLE TO HAVE POLYVINYL CHLORIDE JACKET.
6. ALL MASTARM MOUNTED SIGNAL HEADS ARE TO BE ATTACHED 2'-0" FROM END OF MAST ARM UNLESS OTHERWISE NOTED.
7. ALL 1" CONDUIT TO BE 1" EMPTY DUCT.
8. IN THE CONTROL CABINET, WHEN LOAD SWITCH POSITIONS OR RELAY POSITIONS ARE NOT USED, THE WIRING NEEDED TO MAKE THE CONTROLLER OPERATIONAL MUST BE DONE ON THE BACK PANEL, NO SPADE LUGS OR TEMPORARY CONNECTIONS ARE TO BE USED.
9. MOUNTING HARDWARE FOR RELOCATED TRAFFIC SIGNAL HEADS SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.
10. FOR PROPOSED LOCATIONS OF RELOCATED, EXISTING LIGHT STANDARDS SEE STREET LIGHTING DESIGN SHEET
11. DUE TO THE SOIL CONDITIONS AT THIS INTERSECTION THE MAST ARM FOUNDATIONS SHALL BE A MINIMUM DEPTH OF 20' PER FOUNDATION.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	48	19
CONTRACT NO. 63087				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LIST OF EXISTING EQUIPMENT

*1	EACH	CONTROLLER IN TYPE IV CABINET WITH ALLIED EQUIPMENT
*10	EACH	LOOP DETECTOR AMPLIFIERS
*2	EACH	ALUMINUM MAST ARM ASSEMBLY AND POLE WITH 6' STREET LIGHTING MAST ARM AND LUMINAIRE
*2	EACH	16' TRAFFIC SIGNAL POSTS
*2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, WITH ALL 12" LENSES
*2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, WITH ALL 12" LENSES
**2	EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 1-FACE 3-SECTION AND 1-FACE 5-SECTION BRACKET MOUNTED
**6	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, WITH ONE 12" RED LENS BRACKET MOUNTED
**2	EACH	14' TRAFFIC SIGNAL POSTS
**4	EACH	TRAFFIC SIGNAL BACKPLATES
**11	EACH	HANDHOLE
**1	EACH	DOUBLE HANDHOLE

\* EQUIPMENT TO BE REUSED  
 \*\* EQUIPMENT TO BE REMOVED AND SALVAGE VALUE TO BE INCLUDED IN THE PAY ITEM "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT"



LEGEND

- CONTROLLER, RELOCATED
- SERVICE INSTALLATION (TRAFFIC SIGNAL)
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSHBUTTON
- SIGNAL POST
- STEEL MAST ARM POLE AND ASSEMBLY
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- DETECTOR LOOP
- GALVANIZED STEEL CONDUIT
- TRENCH
- SIZE OF CONDUIT
- LENGTH OF CONDUIT
- PUSHED
- RELOCATED MAST ARM MOUNTED TRAFFIC SIGNAL HEAD WITH PROPOSED BACKPLATE
- EXISTING, RELOCATED T.S. POST
- EXISTING RELOCATED STREET LIGHTING STANDARD
- PROPOSED STREET LIGHTING HANDHOLE
- EXISTING SERVICE INSTALLATION FOR STREET LIGHTING
- EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON

NOTE:  
 STREET LIGHTING HANDHOLES AT THIS INTERSECTION SHALL BE DESIGNATED "STREET LIGHTING" ON THE COVERS.

CARE IS TO BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGE TO THE EXISTING TRAFFIC SIGNAL CONDUIT, DETECTORS, AND EQUIPMENT. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED CONDUIT OR EQUIPMENT AT NO COST TO THE COUNTY OR VILLAGE.

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

NOTE:  
 FOR THE LOCATION OF ALL LOOPS AT THIS INTERSECTION CONTACT THE C.C.H.D. DESIGN ENGINEER AT (312) 443-7876 WHO WILL MARK THE PAVEMENT FOR THE CUTTING OF THE LOOPS.

THE EMERGENCY VEHICLE PREEMPTION FOR THIS PROJECT SHALL BE "OPTICOM" TO MATCH THE EXISTING SYSTEM AND MUNICIPAL REQUIREMENTS

SCALE 1"=20'-0"

COUNTY OF COOK  
 DEPARTMENT OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION  
 CENTRAL AVE. AT 103RD. ST.

COMPUTED GAH  
 DRAWN GAH  
 CHECKED RL

APPROVED *[Signature]* 4 June 1991  
 CHIEF ENGINEER OF DESIGN

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION

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

N:\DokLawn\080363\Traffic\VEP\_103rd-Central.dgn