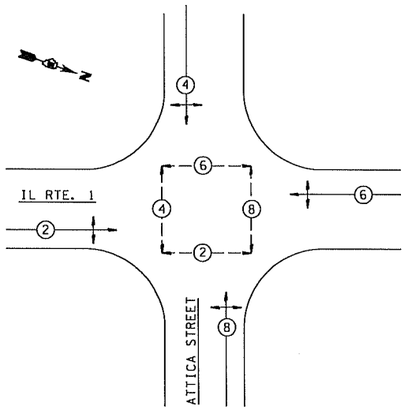
CONTRACT NO. 70312

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(482-2) TS	VERMILION	7	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PHASE DESIGNATION DIAGRAM

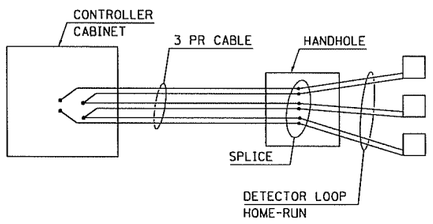


A PEDESTRIAN CLEARANCE INTERVAL OF 16 SECONDS SHALL BE USED FOR PHASE 2; 19 SECONDS FOR PHASE 4; 19 SECONDS FOR PHASE 6; 19 SECONDS FOR PHASE 8.

NOTE: THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE CONTROLLER CABINET BACKPANEL.

DETAIL OF DETECTOR LOOP WIRING

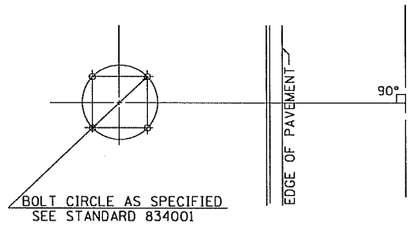
WIRED IN SERIES WITH MULTI-PAIR CABLE



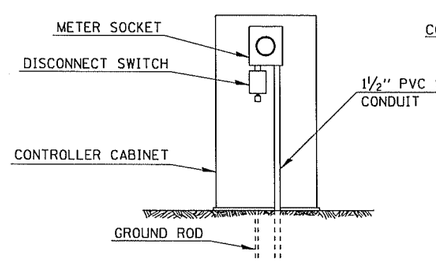
PEDESTRIAN PUSH-BUTTON SIGNS

PUSH BUTTON TO CROSS CHICAGO STREET	PUSH BUTTON TO CROSS ATTICA AVENUE

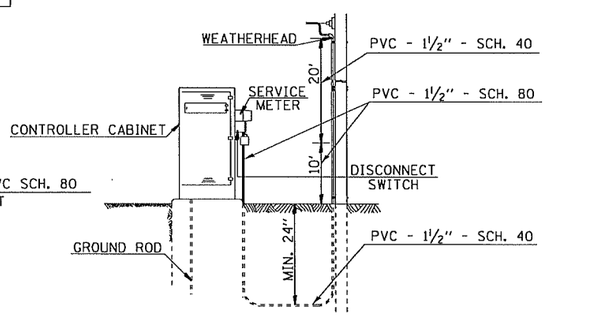
NOTE: PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTONS. THE SIGNS SHALL BE BOLTED TO THE POSTS. THE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTONS IN ACCORDANCE WITH SECTION 862 OF THE STANDARD SPECIFICATIONS.



DETAIL OF MAST ARM FOUNDATION BOLT PATTERN



INSTALL GROUND FROM METER SOCKET NEUTRAL LUG TO THE GROUND ROD



CONTRACTOR TO SUPPLY SCH. 80 - 10' AND SCH. 40 - 20' WEATHERHEAD TO BE INSTALLED ON POWER POLE BY POWER COMPANY

DETAIL OF SERVICE INSTALLATION MOUNTED ON CONTROLLER CABINET

ITEMS TO BE RETURNED TO IL. DEPT. OF TRANSPORTATION

ITEM	QUANTITY
CONTROLLER	1 EACH

BILL OF MATERIALS

IL. ROUTE 1 & ATTICA STREET

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	72
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	175
CONDUIT IN TRENCH, 5" DIA., PVC	FOOT	18
CONDUIT, AUGERED 1 1/2" DIA., PVC	FOOT	545
CONDUIT, AUGERED 3" DIA., PVC	FOOT	215
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	265
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
GULFBOX JUNCTION	EACH	2
GULFBOX JUNCTION REMOVAL	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	555
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 4C	FOOT	932
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1508
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	160
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	945
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	4
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12.4
CONCRETE FOUNDATION, TYPE D	EACH	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	41
TRAFFIC SIGNAL BACKPLATE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	389
PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	624
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE,LED, 1-FACE, BRACKET MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 1C	EACH	609

GENERAL NOTES

1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE: (A2, A3), (B2, B3), (C2, C3), (D2, D3) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.
2. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 2 FT. OF THE FACE OF CURB.
4. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
5. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
6. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
7. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.
8. EACH DETECTOR LOOP SHALL BE WIRED TO INDIVIDUAL PAIRS OF THE LEAD-IN CABLE. DETECTOR LOOPS SHALL BE WIRED IN SERIES AT THE CONTROLLER CABINET DETECTOR PANEL.

PLOT DATE = 3/6/2006
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PLOT SCALE = 43.2395 ' / IN.
USER NAME = cmugre