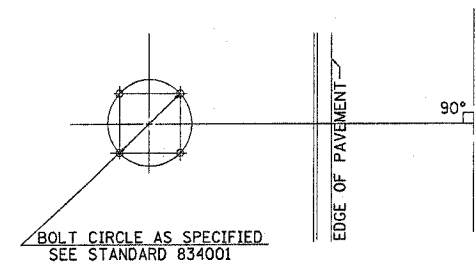
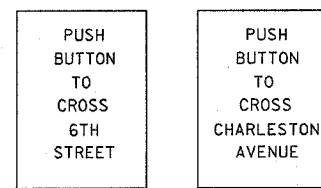


B I L L O F M A T E R I A L S
IL. ROUTE 16 & SIXTH ST.



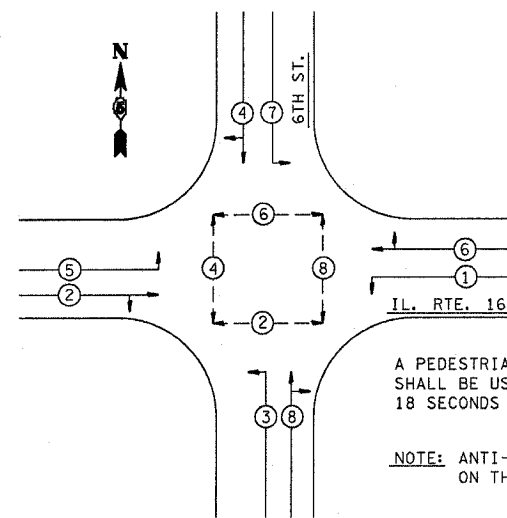
**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**

PEDESTRIAN PUSH-BUTTON SIGNS



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 888 OF THE STANDARD SPECIFICATIONS.

PHASE DESIGNATION DIAGRAM



A PEDESTRIAN CLEARANCE INTERVAL OF 20 SECONDS SHALL BE USED FOR PHASE 2; 24 SECONDS FOR PHASE 4; 18 SECONDS FOR PHASE 6; 26 SECONDS FOR PHASE 8.

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

ITEMS TO BE RETURNED TO THE CITY OF MATTOON

ITEM	QUANTITY
CABINET & CONTROLLER	1 EA.
TS POST & BASE, ALUMINUM	1 EA.
SERVICE INSTALLATION	1 EA.
PED PUSH BUTTON & POST	1 EA.

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE A	EACH	1
WOOD POLE, 35 FT., CLASS 4	EACH	1
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	144
CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	16
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	94
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	28
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	29
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	44
CONDUIT IN TRENCH, 6" DIA., PVC	FOOT	4
CONDUIT, AUGERED 3" DIA., PVC	FOOT	173
CONDUIT, AUGERED 4" DIA., PVC	FOOT	59
CONDUIT SPLICE	EACH	1
HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	359
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	593
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	631
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2076
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1833
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	20
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12.4
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	42
TRAFFIC SIGNAL BACKPLATE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	981
PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	433
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	589
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EAC	4
SIGNAL HEAD ,POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EAC	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EAC	4

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. ALL MAST ARM POLES SHALL BE A MINIMUM OF 6 FT. FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
5. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
6. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
7. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
8. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.