

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	753
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	262
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	40
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	319
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	53
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	166
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	478
CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	103
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	3
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1208
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2982
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1377
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4082
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3999
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	24
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1355
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	1344
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	254
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	6129
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 15 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	36
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	75
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	22
DETECTOR LOOP, TYPE I	FOOT	1715
LIGHT DETECTOR	EACH	5
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
RELOCATE EXISTING RADIO INTERCONNECT SYSTEM	EACH	2
SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	6
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1

SEQUENCE OF OPERATION

MOVEMENT	MALL LOOP DRIVE		MALL LOOP DRIVE		MALL LOOP DRIVE		MALL LOOP DRIVE		MALL LOOP DRIVE	
	1	2	3	4	5	6	7	8	9	10
PHASE	1 + 6		1 + 5		1 + 7		2 + 8		3 + 8	
INTERVAL	1	2	3	3A	4	4A	5	5A	6	7
CHANGE TO			1 + 5	1 + 7	2 + 8	3 + 8			1 + 6	1 + 7
ESSINGTON ROAD AT HENNEPIN DRIVE NEAR RIGHT AND RIGHT MAST ARM SIGNALS	NB	G	G	Y	R	Y	R	Y	R	R
ESSINGTON ROAD AT HENNEPIN DRIVE FAR LEFT AND END MAST ARM SIGNALS	NB	G	G	Y	R	Y	R	Y	R	R
ESSINGTON ROAD AT HENNEPIN DRIVE RIGHT MAST ARM SIGNAL	SB	R	R	R	R	R	R	R	R	R
ESSINGTON ROAD AT HENNEPIN DRIVE FAR LEFT AND END MAST ARM SIGNALS	SB	R	R	R	R	R	R	R	R	R
HENNEPIN DRIVE NEAR RIGHT AND RIGHT MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R
HENNEPIN DRIVE FAR LEFT AND END MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R
HENNEPIN DRIVE RIGHT MAST ARM SIGNAL	WB	R	R	R	R	R	R	R	R	R
HENNEPIN DRIVE FAR LEFT AND END MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	R
ESSINGTON ROAD AT MALL LOOP DRIVE NEAR RIGHT AND RIGHT POST SIGNALS	NB	G	G	G	G	G	Y	R	R	R
ESSINGTON ROAD AT MALL LOOP DRIVE FAR LEFT AND LEFT POST SIGNALS	NB	G	G	G	G	G	Y	R	R	R
MALL LOOP DRIVE NEAR RIGHT AND RIGHT MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R
MALL LOOP DRIVE FAR LEFT AND END MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R
MALL LOOP DRIVE RIGHT MAST ARM SIGNAL	WB	R	R	R	R	R	R	R	R	R
MALL LOOP DRIVE FAR LEFT AND END MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING HENNEPIN DRIVE ON EAST SIDE OF ESSINGTON ROAD		*P	**FH	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING HENNEPIN DRIVE ON WEST SIDE OF ESSINGTON ROAD		H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ESSINGTON ROAD ON SOUTH SIDE OF HENNEPIN DRIVE		H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ESSINGTON ROAD ON NORTH SIDE OF HENNEPIN DRIVE		H	H	H	H	H	H	H	H	H

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
 ** FLASHING "H" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL
 P = ILLUMINATED PERSON = "WALK"
 FH = ILLUMINATED FLASHING HAND = FLASHING "DON'T WALK"
 H = ILLUMINATED SOLID HAND = "DON'T WALK"