

DETECTOR LOOP REQUIREMENTS & CALCULATIONS						
LOCATION	LOOP	PHASE	LOOP SIZE	REQUIRED NUMBER OF TURNS	CALCULATED INDUCTANCE MICROHENRIES @ CONTROLLER (mH)	CALCULATED RESISTANCE @ CONTROLLER (OHMS)
SOUTH JUNCTION						
SB MAIN LINE	NRF	6	6' x 6'	4	182	2.38
SB MAIN LINE	NMF	6	6' x 6'	4	180	2.31
SB MAIN LINE	NLF	6	6' x 6'	4	177	2.15
EB EXIT RAMP	WLT	7	6' x 50'	2 - 4 - 2	437	2.31
EB EXIT RAMP	WLP	7	6' x 50'	2 - 4 - 2	434	2.24
EB EXIT RAMP	WRT	B	6' x 50'	2 - 4 - 2	428	2.09
EB EXIT RAMP	WRP	B	6' x 50'	2 - 4 - 2	426	2.05
NORTH JUNCTION						
WB EXIT RAMP	ERT	D	6' x 50'	2 - 4 - 2	437	3.09
WB EXIT RAMP	ELP	3	6' x 50'	2 - 4 - 2	438	3.13
WB EXIT RAMP	ELT	3	6' x 50'	2 - 4 - 2	442	3.21

SCHEDULE OF QUANTITIES

SP	ITEM	UNIT	QUANTITY
	LOCATING UNDERGROUND CABLE	FOOT	4,115
	CONDUIT IN TRENCH, 1 1/2" DIA, GALVANIZED STEEL	FOOT	16
	CONDUIT IN TRENCH, 1" DIA, PVC	FOOT	94
	CONDUIT IN TRENCH, 1 1/4" DIA., PVC	FOOT	6
	CONDUIT IN TRENCH, 1 1/2" DIA, PVC	FOOT	6
	CONDUIT IN TRENCH, 2" DIA, PVC	FOOT	396
	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	313
	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	20
	• CONDUIT, AUGERED, 2" DIA., PVC	FOOT	575
	• CONDUIT, AUGERED, 3" DIA., PVC	FOOT	542
	• CONDUIT SPLICE	EACH	5
	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	168
	HANDHOLE	EACH	8
	• HANDHOLE (SPECIAL)	EACH	2
	• HEAVY-DUTY HANDHOLE (SPECIAL)	EACH	3
	• DOUBLE HANDHOLE (SPECIAL)	EACH	2
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	851
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,419
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,591
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	9,106
	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	60
	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	3
	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	9
	CONCRETE FOUNDATION, TYPE D	FOOT	7
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
	DRILL EXISTING HANDHOLE	EACH	9
	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
	TRAFFIC SIGNAL BACKPLATE, PLASTIC	EACH	10
	• INDUCTION LOOP DETECTOR AMPLIFIER	EACH	2
	DETECTOR LOOP, TYPE 1	FOOT	1,572
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2
	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	2
	• RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,439
	• REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
	• REMOVE EXISTING HANDHOLE	EACH	6
	• REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
	• FURNISHING AND INSTALLING CABLE SPLICES	EACH	28
	• ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	3,765
	• EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,048
	• SEE SPECIAL PROVISION FOR THIS ITEM		