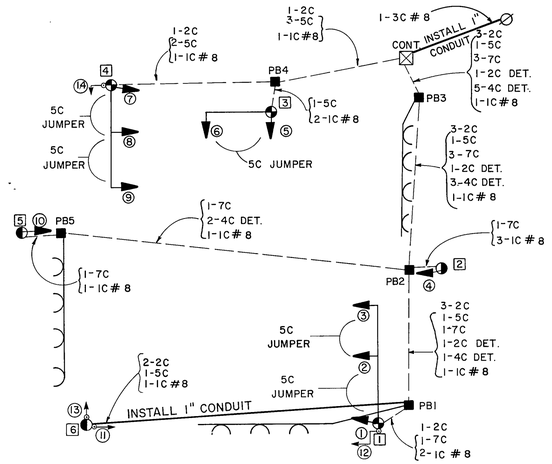
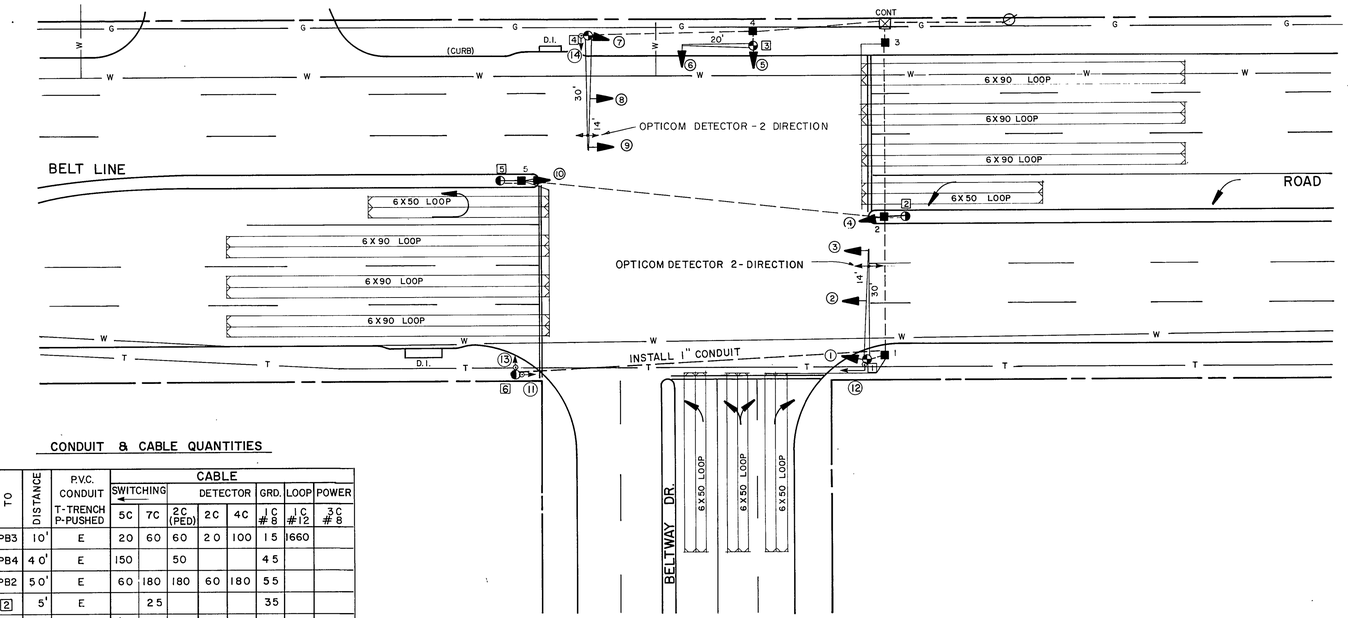


WIRING DIAGRAM

(CONDUIT EXISTS - EXCEPT AS INDICATED)

SIGNAL HEAD ARRAYS

HEAD NUMBERS →	1,2,3 7,8,9	5,6	4,10	11,12	13,14
LENS SIZE →	12"	12"	12"	12"	12"
TYPE →	CONV.	CONV.	CONV.	CONV. PED.	CONV. PED.
LENS CONFIGURATION	R	R	R	DW	DW
	Y	Y	Y	WALK	WALK
	G	G	G		
			← Y		
			← G		
TOTAL NUMBER OF UNITS →	6	2	2	2	2



N

QUANTITIES

ITEM	UNIT	QUAN.
PULL BOX (EXISTS)	—	—
CONDUIT:		
1 INCH P.V.C. (IN TRENCH)	L.F.	40
1 INCH P.V.C (PUSHED)	L.F	105
PEDESTRIAN PUSH BUTTON	PR.	2
CABLE - WIRE:		
5 CONDUCTOR # 12	L.F.	720
7 CONDUCTOR # 12	L.F.	480
2 CONDUCTOR - DETECTOR	L.F.	130
4 CONDUCTOR - DETECTOR	L.F.	560
1 CONDUCTOR # 8 GROUND	L.F.	525
2 CONDUCTOR # 12 (PED. DET.)	L.F.	760
XHHW DETECTOR LOOP	L.F.	4250
3 CONDUCTOR # 8 POWER	L.F.	75
FOUNDATIONS:		
TYPE C (PEDESTAL-S.W. CORNER)	EA.	1
CONTROLLER, IN PLACE	EA.	1
POLES: SIGNAL PEDESTAL	EA.	3
MAST ARM POLE W/20' ARM	EA.	1
MAST ARM POLE W/30' ARM	EA.	2
SIGNAL HEADS:		
5 SECTION - 12" LENS	EA.	2
3 SECTION - 12" LENS	EA.	8
2 SECTION - 12" PEDESTRIAN	EA.	4
POWER SUPPLY ASSEMBLY	EA.	1
LOOP DETECTOR AMPLIFIER	EA.	11

CONDUIT & CABLE QUANTITIES

FROM	TO	DISTANCE	P.V.C. CONDUIT T-TRENCH P-PUSHED	CABLE ← SWITCHING		DETECTOR			GRD.	LOOP	POWER
				5C	7C	2C (PED)	2C	4C	JC #8	JC #12	3C #8
⊠	PB3	10'	E	20	60	60	20	100	15	1660	
⊠	PB4	40'	E	150		50			45		
PB3	PB2	50'	E	60	180	180	60	180	55		
PB2	2	5'	E		25				35		
PB2	PB5	105'	E		115			230	110	1620	
PB5	5	5'	E		25				10		
PB2	PB1	40'	E	50	50	150	50	50	45	970	
PB1	1	5'	E		25	20			20		
PB4	5	5'	E	25					20		
PB4	4	50'	E	140		60			55		
∅	⊠		1"T- 40								75
PB1	6	105'	1"P-105	125		240			115		
(JUMPERS)				150							
TOTALS			1"T- 40' 1"P-105'	720	480	760	130	560	525	4250	75

LEGEND

- T — TELEPHONE DUCT OR U.G. CABLE
- G — GAS MAIN OR SERVICE LINE
- W — WATER MAIN OR SERVICE LINE
- SS — SANITARY OR STORM SEWER
- INSTALL OPTICOM DETECTOR - 2 DIRECTION
- INSTALL OPTICOM DETECTOR - 1 DIRECTION
- EXISTING CONDUIT FOR SIGNAL CABLE
- INSTALL CONDUIT - IN TRENCH
- INSTALL SIGNAL MAST ARM & POLE
- INSTALL TRAFFIC SIGNAL HEAD
- INSTALL SIGNAL PEDESTAL POLE
- EXISTING PULL BOX
- INSTALL PULL BOX
- SERVICE POLE - A.C. SOURCE
- INSTALL PEDESTRIAN SIGNAL HEAD
- INSTALL PEDESTRIAN PUSH BUTTON W/INTEGRAL ILLUMINATED SIGN

5 PHASE FULLY ACTUATED SIGNAL CONTROL

SEE SHEET 1 FOR PHASING DIAGRAM AND INTERVAL CHART

EMERGENCY VEHICLE PRE-EMPT SYSTEM (3M-OPTICOM) WILL BE INCLUDED WITH THE CONTROLLER. IT WILL BE DETECTED FROM 2 - DIRECTIONS (EAST & WEST) PHASE A.

CITY OF ADDISON

TRAFFIC SIGNAL INSTALLATIONS
BELT LINE ROAD

INTERSECTION LAYOUT

BELT LINE ROAD AND BELTWAY DRIVE

GINN, INC.

DESIGNED-	DRAWN-	DATE- JUNE, 1980	FILE-
APPROVED-	CHECKED-	SCALE- (PLAN) 1"= 20'	SHEET- 5 OF- 14