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Drawn by: jgp
Plotted by: DJW 11-11-97

CHART A SIGNAL HEADS			
NUMBER OF SECTIONS	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QTY.
3	A	RIGID MAST ARM	4
5	C	RIGID MAST ARM	4
3	A	VERTICAL BRACKET	4
2	F	PEDESTAL	4
2	F	VERTICAL BRACKET	4
TOTAL			20

CHART B TRAFFIC SIGNAL POLES						
POLE NO.	POLE HEIGHT	ARM HEIGHT	ARM LENGTH	NO. OF SIGNALS ON ARM	SIGNAL SPACING	LUMINAIRE MOUNTING HEIGHT
1	35'	19'	36'	2	35.5'/19'	35'
2	20'	19'	46'	2	45'/29'	—
3	15'	—	—	—	—	—
4	20'	19'	44'	2	43'/27'	—
5	20'	19'	46'	2	45.5'/29'	—
6	15'	—	—	—	—	—

CHART C DETECTOR OPERATIONS							
LOOP LABEL	MODE	SIZE	NUMBER OF TURNS	PHASE CALLED	PHASE EXTENDED	DELAY / STRETCH TIMER	INITIAL SETTING (SEC)
11	PRESENCE	50x6	2-4-2	1	1	-	-
21	PRESENCE	50x6	2-4-2	2	2	-	-
22	PRESENCE	50x6	3	2	2	-	-
23	PRESENCE	20x6	3	2	2	S	1.0
24	PRESENCE	6x6	3	2	2	S	1.0
25	PRESENCE	6x6	3	2	2	S	1.0
26	PRESENCE	6x6	3	2	2	S	1.0
27	PRESENCE	6x6	3	2	2	S	1.0
28	PRESENCE	6x6	3	2	2	S	1.0
29	PRESENCE	6x6	3	2	2	S	1.0
31	PRESENCE	50x6	2-4-2	3	3	-	-
41	PRESENCE	50x6	2-4-2	4	4	-	-
42	PRESENCE	50x6	3	4	4	-	-
43	PRESENCE	6x6	3	4	4	S	1.0
44	PRESENCE	6x6	3	4	4	S	1.0
45	PRESENCE	6x6	3	4	4	S	1.0
46	PRESENCE	6x6	3	4	4	S	1.0
47	PRESENCE	6x6	3	4	4	S	1.0
48	PRESENCE	6x6	3	4	4	S	1.0
51	PRESENCE	50x6	2-4-2	5	5	-	-
61	PRESENCE	50x6	2-4-2	6	6	-	-
62	PRESENCE	50x6	3	6	6	-	-
63	PRESENCE	6x6	3	6	6	S	1.0
64	PRESENCE	6x6	3	6	6	S	1.0
65	PRESENCE	6x6	3	6	6	S	1.0
66	PRESENCE	6x6	3	6	6	S	1.0
67	PRESENCE	6x6	3	6	6	S	1.0
68	PRESENCE	6x6	3	6	6	S	1.0
69	PRESENCE	6x6	3	6	6	S	1.0
71	PRESENCE	50x6	2-4-2	7	7	-	-
81	PRESENCE	50x6	2-4-2	8	8	-	-
82	PRESENCE	50x6	3	8	8	-	-
83	PRESENCE	6x6	3	8	8	S	1.0
84	PRESENCE	6x6	3	8	8	S	1.0
85	PRESENCE	6x6	3	8	8	S	1.0
86	PRESENCE	6x6	3	8	8	S	1.0
87	PRESENCE	6x6	3	8	8	S	1.0
88	PRESENCE	6x6	3	8	8	S	1.0

BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD (see chart A) W/MOUNTING HARDWARE	EACH	20X
TRAFFIC SIGNAL POLE (see chart B), STEEL	EACH	4
TRAFFIC SIGNAL PEDESTAL, ALUMINUM 15'	EACH	2
LOOP DETECTOR (see chart C)	EACH	19
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - POLE	EACH	4
CONCRETE FOOTING - PEDESTAL	EACH	2
BACKPLATE 5" 3 SECTION	EACH	8
BACKPLATE 5" 5 SECTION	EACH	4
TERMINAL BLOCK	EACH	AS REQ'D.
SERVICE BOX	EACH	4
JUNCTION BOX	EACH	16
GROUND ROD & CLAMP	EACH	8
TRAFFIC SIGNAL LAMP 135 WATT KRYPTON	EACH	48
LED RED TRAFFIC SIGNAL LENS	EACH	12
LED DONT WALK (SYMBOLIC) SIGNAL LENS	EACH	8
ENTRANCE HEAD	EACH	1
CIRCUIT BREAKER & BOX 50 AMP	EACH	1
SURGE ARRESTOR - CONTROLLER	EACH	1
SURGE ARRESTOR - DETECTOR	EACH	—
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
CONDUIT 3/4" RGC	LIN.FT.	650
CONDUIT 1" RGC	LIN.FT.	600
CONDUIT 1 1/2" RGC	LIN.FT.	500
CONDUIT 2" RGC	LIN.FT.	225
CONDUIT 3" RGC	LIN.FT.	525
CONDUIT ELBOW 90° (2")	EACH	AS REQUIRED
CONDUIT ELBOW 90° (3")	EACH	AS REQUIRED
CONDUIT CLAMP	EACH	AS REQUIRED
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 3/c	LIN.FT.	350
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 5/c	LIN.FT.	300
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 7/c	LIN.FT.	300
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 10/c	LIN.FT.	200
MULTI-CONDUCTOR CABLE NO.14 A.W.G. 19/c	LIN.FT.	800
POWER LEAD-IN CABLE NO.6 A.W.G. 1/c	LIN.FT.	200
SHIELDED DETECTOR LEAD-IN WIRE NO.16 A.W.G. 2/c	LIN.FT.	275
SHIELDED DETECTOR LEAD-IN WIRE NO.18 A.W.G. 4/c	LIN.FT.	7,700
DETECTOR LOOP WIRE NO.14 A.W.G. 1/c	LIN.FT.	11,250
NO. 6 AWG COMMON GROUND (GREEN) 1/c	LIN.FT.	225
OVERHEAD STREET NAME SIGN (HIGH INTENSITY SHEETING)	EACH	4
RIO-12 SIGN (24"x30")(HIGH INTENSITY SHEETING)	EACH	4
--- Quantities For Information Only ---		

A
R
Y
G

B
R
Y
G

C
R
Y
G
G

D
R
Y
G
G

E
R
Y
G
G

F
R
Y
G
G

X
LEFT TURN
YIELD
ON GREEN
RIO-12
24" x 30"

L
LEFT TURN
SIGNAL
RIO-10
24" x 30"

S=Stretch
D=Delay

× NOTE: 12" Dont Walk (symbolic) signal heads shall be LED type.

CHART D OVERHEAD STREET NAME SIGNS

LEGEND	LENGTH	QUANTITY
Central	5'-0"	2
Greenwich Rd	10'-0"	2

POLE NO. 3 & 6

POLE NO. 2 & 5

POLE NO. 1 & 4

POLE WIRING DIAGRAM

LEGEND

P - Power Lead-In, 1/C

G - Ground, 1/C

S19 - Signal Cable, 19/C

S10 - Signal Cable, 10/C

D4 - Detector Lead-In, 4/C

D2 - Detector Lead-In, 2/C

L - Loop Wire, 1/C

□ Traffic Signal Pole w/ Mast Arm

□ Traffic Signal Pedestal

□ Controller with pad

□ Service Box

● Junction Box

--- Rigid Galvanized Conduit (RGC)

△ Signal Pole Reference Number

WIRING DIAGRAM

NOTE: The contractor shall supply and install all necessary materials and equipment for the complete installation and operation of the traffic signal system whether specifically mentioned or not.

RECAPITULATION OF TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL INSTALLATION (CENTRAL & GREENWICH RD.)	LUMP SUM	LUMP SUM

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

Central Ave. and Greenwich Road

T.S. No. 1.0

PREPARED BY
SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES
HIGHWAY DIVISION

DAVID C. SPEARS, P.E. DIRECTOR/COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
		BER		WDH	
DATE	JULY, 1997				
PLAN FILE	TS-1-0.DWG		TOTAL SHEETS		