

CONDUCTORS & CONDUIT



UNDERGROUND CONDUIT BANK (TYPE, SIZE AND NUMBER OF CONDUITS INDICATED BY CROSS SECTION IDENTIFICATION OF EACH RUN OR BY NOTATION) "1" INDICATES SECTION DETAIL ON SHEET "E-4"

LP-1,2,3

BRANCH CIRCUIT HOME RUN TO PANELBOARD "LP"; NUMERALS IDENTIFY CIRCUIT NUMBERS

3#4+1#10G-2"C

NUMBER OF #4 AWG CONDUCTORS. ONE #10 AWG GROUND CONDUCTOR IN 2" CONDUIT.

PANELBOARDS

PANELBOARD

RECEPTACLE OUTLETS

DUPLEX RECEPTACLE OUTLET; RATED 20AMP, 120VOLT, 60Hz, 1PH, 3W, GNDG. TYPE, "GF" DENOTES RECEPTACLE WITH GROUND FAULT PROTECTION, SHADING DENOTES 18" ABOVE COUNTER

TELEPHONE SYSTEM DEVICES

TELEPHONE OUTLET

LIGHTING FIXTURES

SITE LIGHTING FIXTURE. ① INDICATES FIXTURE LABEL. REFER TO FIXTURE ASSEMBLY SCHEDULE & NOTES #4&5 ON SHEET E-2 FOR ADDITIONAL INFORMATION

MISCELLANEOUS SYMBOLS

H HANDHOLE
P PHOTOCELL
T TRANSFORMER
M PRECAST CONCRETE MANHOLE

1 DENOTES SECTION/DETAIL DESIGNATION
E-3 DENOTES SHEET NUMBER ON WHICH DETAIL IS SHOWN

STANDARD ABBREVIATIONS

A AMPERE	LTG LIGHTING
AC ALTERNATING CURRENT	MH MANHOLE
AF AMPERE FRAME	MCB MAIN CIRCUIT BREAKER
AT AMP TRIP	MLO MAIN LUGS ONLY
AWG AMERICAN WIRE GAUGE	MTD, MTC MOUNTED, MOUNTING
BIT BITUMINOUS	NTS NOT TO SCALE
C CONDUIT	P POLE
CB CIRCUIT BREAKER	PH OR Ø PHASE
CONC CONCRETE	PVC POLYVINYL CHLORIDE
DMH DRAINAGE MANHOLE	SP SPARE
DWG DRAWING	TEL TELEPHONE
EX EXISTING	TYP TYPICAL
GRAN GRANITE	UNO UNLESS NOTED OTHERWISE
GRS GALVANIZED RIGID STEEL	V VOLTS
GND GROUND	VA VOLT-AMPERES
INV INVERT	W WATTS OR WIRE
KVA KILOVOLT-AMPERES	WP WEATHER PROOF
KW KILOWATTS	

GENERAL NOTES

1. COORDINATE WITH UTILITY COMPANY CONCERNING UTILITY WORK BEING DONE UNDER THIS CHANGE ORDER. SEE SHEET E-2 FOR MORE INFORMATION.

PANELBOARD REF: LP										VOLTAGE RATING: 208/120 V, 3 PHASE, 4 WIRE									
LOCATION: SERVICE ENTRANCE CABINET										MAIN BREAKER: 200A M.C.B.									
BUS RATING: 200 AMP										MTG: SURFACE NEMA 1 IC, 10 KAIC									
BRK. NO.	POLE	DESCRIPTION	LOAD			BRK. TRIP	NO. OF POLES	NO. OF POLES	BRK. TRIP	LOAD			DESCRIPTION	POLE	BRK. NO.				
			KVA							KVA									
			ØA	ØB	ØC					ØA	ØB	ØC							
1	1	TIMECLOCK	0.5			20	1	3	20	1.5			PARKING LOT LIGHTING	2	2				
3	3	CONTROL CABINET RECEPT.	.18			20	1			1.5			-	4					
5	5	PHOTOCELL			.18	20	1				1.5		-	6					
7	7	SPARE	-			20	1	3	20	1.5			PARKING LOT LIGHTING	8	4				
9	9	SPARE		-		20	1			1.5			-	10					
11	11	SPARE			-	20	1				1.5		-	12					
13	13	SPACE	-					3	20	1.3			PARKING LOT LIGHTING	14	6				
15	15	SPACE		-						1.3			-	16					
17	17	SPACE Block Heater Rec			-						1.3		-	18					
19	19	SPACE Block Heater Rec	-					3	20	-			SPARE	20	8				
21	21	SPACE Block Heater Rec		-							-		-	22					
23	23	SPACE			-						-		-	24					
25	25	TOLL BOOTH LOAD CENTER	9.6			100	3	3	20	-			SPARE	26	10				
	27	-		9.6							-		-	28					
	29	-			9.6						-		-	30					
NOTES: PANELBOARD SHALL BE RATED FOR SERVICE ENTRANCE										ØA 13.83 KVA									
POLES: 30 TOTAL LOAD: 41.49 KVA										ØB 13.83 KVA									
										ØC 13.83 KVA									

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LIGHTING FIXTURE ASSEMBLY AND POLE BASE SCHEDULE

POLE#	DESCRIPTION*	STATION	OFFSET (TO CENTER OF POLE)	CIRCUIT	FEEDER	PHASE** CONDUCTORS	LIGHT DISTRIBUTION TYPE	POLE BASE DIAMETER
1	SINGLE	10+99.41	34' LT	LP-2	3#4+1#10G-2"C	C-A	II	18"
2	DOUBLE	10+04.40	28.5' LT	LP-2	3#4+1#10G-2"C	A-B	IV	24"
3	DOUBLE	8+88.90	28.5' LT	LP-2	3#4+1#10G-2"C	B-C	IV	24"
4	DOUBLE	7+73.40	28.5' LT	LP-2	3#4+1#10G-2"C	C-A	IV	24"
5	DOUBLE	6+57.90	28.5' LT	LP-2	3#4+1#10G-2"C	A-B	IV	24"
6	DOUBLE	5+42.40	28.5' LT	LP-2	3#4+1#10G-2"C	B-C	IV	24"
7	DOUBLE	4+26.90	28.5' LT	LP-2	3#4+1#10G-2"C	C-A	IV	24"
8	DOUBLE	3+11.40	28.5' LT	LP-2	3#4+1#10G-2"C	A-B	IV	24"
9	SINGLE	10+99.41	175' LT	LP-4	3#4+1#10G-2"C	C-A	II	18"
10	DOUBLE	10+04.40	148.50' LT	LP-4	3#4+1#10G-2"C	A-B	IV	24"
11	DOUBLE	8+88.90	148.50' LT	LP-4	3#4+1#10G-2"C	B-C	IV	24"
12	DOUBLE	7+73.40	148.50' LT	LP-4	3#4+1#10G-2"C	C-A	IV	24"
13	DOUBLE	6+57.90	148.50' LT	LP-4	3#4+1#10G-2"C	A-B	IV	24"
14	DOUBLE	5+42.40	148.50' LT	LP-4	3#4+1#10G-2"C	B-C	IV	24"
15	DOUBLE	4+26.90	148.50' LT	LP-4	3#4+1#10G-2"C	C-A	IV	24"
16	DOUBLE	3+11.40	136.5' LT	LP-4	3#4+1#10G-2"C	A-B	III	18"
17	DOUBLE	10+26.00	270.56' LT	LP-6	3#4+1#10G-2"C	A-B	III	18"
18	DOUBLE	9+30.00	270.56' LT	LP-6	3#4+1#10G-2"C	B-C	III	18"
19	DOUBLE	8+15.50	270.56' LT	LP-6	3#4+1#10G-2"C	C-A	III	18"
20	SINGLE	7+05.70	269.83' LT	LP-6	3#4+1#10G-2"C	A-B	III	18"
21	SINGLE	5+83.00	243.44' LT	LP-6	3#4+1#10G-2"C	B-C	II	18"
22	SINGLE	2+21.32	62.20' LT	LP-6	3#4+1#10G-2"C	C-A	II	18"
23	SINGLE	2+01.31	12.13' RT	LP-6	3#4+1#10G-2"C	A-B	II	18"
24	SINGLE	1+64.85	15.60' LT	LP-6	3#4+1#10G-2"C	B-C	II	18"
25	DOUBLE	0+67.26	18.41' LT	LP-6	3#4+1#10G-2"C	C-A	III	18"
26	SINGLE	0+01.58	14.13' RT	LP-6	3#4+1#10G-2"C	A-B	II	18"

* LUMINAIRE:
- LIGHT GRAY ONE-PIECE DIE-CAST ALUMINUM
- 250W METAL HALIDE WITH PULSE BALLAST
- AIR FILTER FOR OPTICAL CHAMBER VENTILATION
- TERMINAL BLOCK FOR FIELD WIRE CONNECTIONS
- MANUFACTURED BY KIM LIGHTING (GARDCO, LITHONIA OR EQUAL)
"SINGLE" CATALOG NUMBER: 1A/AR()/250PMH208/LG-P/AF/TB
"DOUBLE" CATALOG NUMBER: 2B/AR()/250PMH208/LG-P/AF/TB

POLE:

- ONE PIECE 30' HIGH NON-TAPERED SQUARE GALVANIZED STEEL SHAFT
- TWO PIECE CAST ALUMINUM BASE COVER
- POLE CAP
- HANDHOLE 18" UP FROM BASE
- GALVANIZED ANCHOR BOLTS PROVIDING 30,000 PSI MINIMUM YIELD PER ASTM-36
- MANUFACTURED BY KIM LIGHTING (GARDCO, LITHONIA OR EQUAL)
"SINGLE" CATALOG NUMBER: KSS30-51801
"DOUBLE" CATALOG NUMBER: KSS30-51802

**INDICATES PHASE CONDUCTORS TO BE USED FROM THE "FEEDER" TO SUPPLY POWER TO EACH LUMINAIRE

***POLE #22 "SINGLE" CATALOG NUMBER WITH PHOTOCELL RECEPTACLE: 1A/AR2/250PMH208/LG-P/AF/TB/A-25

CITY OF NEW BEDFORD, MASSACHUSETTS

RAIL YARD CSO RELOCATION PROJECT, BID NO 946
CHANGE ORDER NO 2 - WHALES TOOTH PARKING LOT

ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES & PANEL BOARD SCHEDULE

STV Incorporated
821 Summer Street
Boston, MA 02210

DATE	DESCRIPTION	BY	CHKD	APP	PROJECT MANAGER	SCALE: NO SCALE	DRAWN BY:	DESIGN BY:	CHECK BY:	PLAN NO.	ISSUE
DATE: 10-03-03		CM	MC	PK						SHEET E-1	