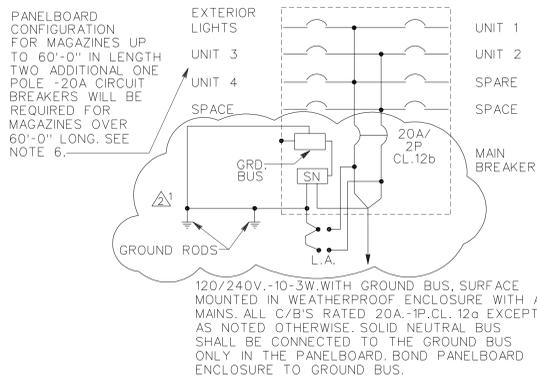


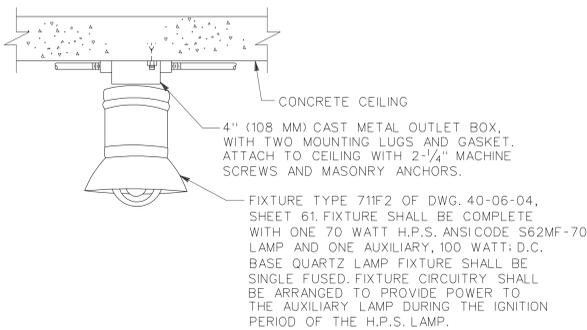
SITING PLAN  
NOT TO SCALE

CONNECTED LOAD PER UNIT			
LIGHTING (WATTS)		RECEPTACLES (WATTS)	TOTAL (WATTS)
EXTERIOR	INTERIOR		① ②
250	806	200	1256

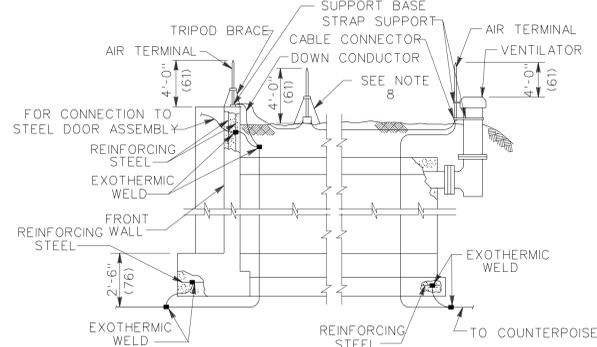
- ① ASSUMING A 60 FT. (1829) MAGAZINE
- ② MAX. LOAD - 4 BAYS - 90 FT. (2745) MAGAZINE : 2.81 KVA



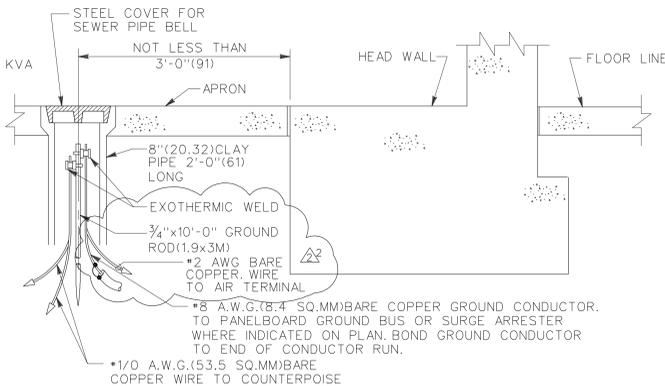
LIGHTING PANELBOARD  
SCHEMATIC



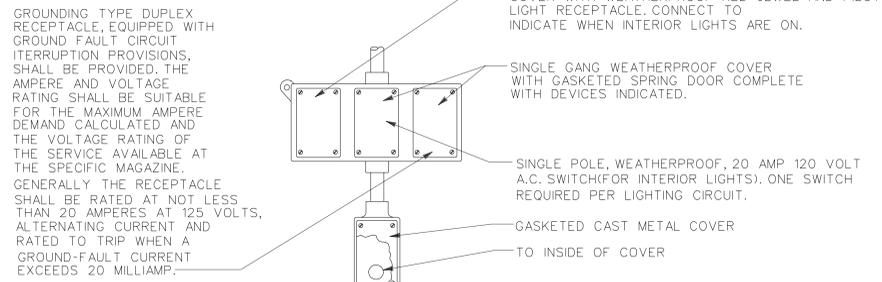
DETAIL 1  
NOT TO SCALE



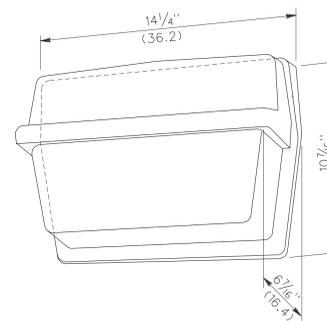
DETAIL 2  
NOT TO SCALE



DETAIL 3  
NOT TO SCALE



DETAIL 4  
NOT TO SCALE



FIXTURE TYPE WBTH-414  
(SEE NOTE 10)

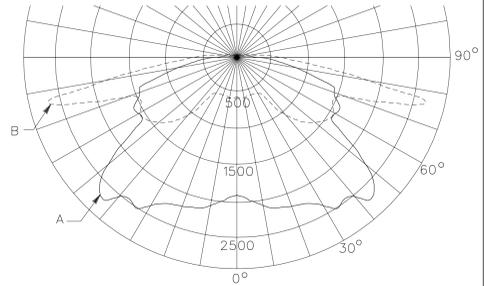
WEATHERPROOF INCANDESCENT WALL MOUNTING FIXTURE CONSISTING OF A THERMAL, SHOCK-RESISTING, CRYSTAL PRISMATIC GLASS, ASYMMETRIC ALZAK REFLECTOR AND A DIECAST ALUMINUM HOUSING. THE FIXTURE SHALL BE PREWIRED AND EQUIPPED WITH A DOUBLE CONTACT BAYONET-BASE SOCKET FOR A 250 WATT IODINE-QUARTZ, SINGLE ENDED LAMP. THE FIXTURE SHALL BE SUITABLE FOR MOUNTING DIRECTLY ON A WALL WITH CONDUIT ENTRY ON EACH SIDE OR TO A RECESSED OUTLET BOX STUD.

THE FIXTURE SHALL REQUIRE NO TOOLS FOR LAMP REPLACEMENT.

THE CANDLEPOWER VALUES INDICATED ARE TO BE CONSIDERED MINIMUM VALUES OBTAINED WITH STANDARD LAMPS AT RATED VOLTAGE.

PHOTOMETRIC DISTRIBUTION  
STANDARD FIXTURE POSITION

A - LATERAL DISTRIBUTION IN 79° CONE  
B - VERTICAL DISTRIBUTION THROUGH 45° LATERAL



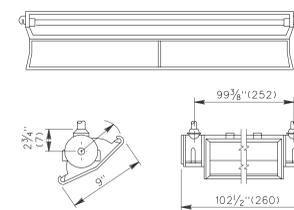
ANGLE DEGREES	DISTRIBUTION DATA	
	A	B
0	1900	480
5	1945	540
10	2190	535
20	-	560
25	2255	560
30	-	565
35	2550	580
40	2500	770
45	2715	1150
50	2460	1325
55	1965	1425
60	1550	1550
65	1610	1475
70	1435	1500
75	1435	2450
77	-	2715
80	920	2020
85	720	770
90	425	440
95	315	310
105	160	220
115	110	-
125	80	-
135	50	-
145	30	-
155	20	-
165	10	-
175	10	-
180	10	-

NOMINAL LAMP DATA

LAMP : F96T12/CW/SHO  
WATTS : 212  
CURRENT : 1.5 AMPS  
LUMENS : 13250  
TEST DISTANCE : 40 FT. (-1220)

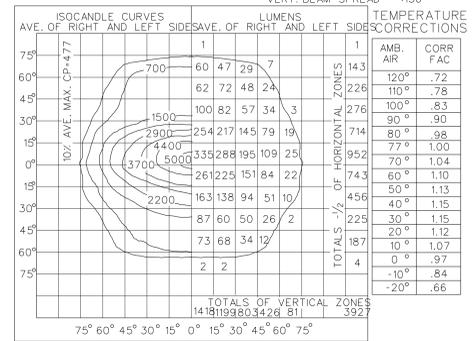
TEST RESULTS

AVG. MAX. CANDLEPOWER : 4779  
BEAM LUMENS : 17854  
BEAM EFFICIENCY : 59.3%  
TOTAL EFFICIENCY : 62.1%  
HOR. BEAM SPREAD : 160°  
VERT. BEAM SPREAD : 136°



FIXTURE TYPE WBF-SL-96  
(SEE NOTE 10)

FLUORESCENT FLOODLIGHT FIXTURE SUITABLE FOR OUTDOOR INSTALLATION SHALL UTILIZE A 96 INCH (244) RAPID START 1500 MA LAMP (F96T12/CW/SHO). THE FIXTURE SHALL CONSIST OF AN ALZAK ALUMINUM REFLECTOR WITH SPECULAR FINISH, SPRING LOADED PLUNGER TYPE SILVERPLATED CONTACT SOCKETS WITH NEOPRENE BOOTS AND SHALL HAVE PROVISION FOR AIMING THROUGHOUT 360 DEGREES ROTATION WITH GRADUATED AIMING DIAL. DOOR ASSEMBLY SHALL CONSIST OF A STAINLESS STEEL FRAME WITH A CLEAR ACRYLIC PLASTIC COVER, SPONGE NEOPRENE WEATHERPROOF GASKET WITH STAINLESS STEEL HINGES AND LATCHES, HOUSING SHALL BE FINISHED WITH GREEN ACRYLIC BAKED ENAMEL PAINT OR OTHER APPROVED COLOR. THE FIXTURE SHALL BE EQUIPPED WITH A MOUNTING HUB ASSEMBLY AT EACH END. A THERMALLY PROTECTED WEATHERPROOF BALLAST, NOT INTEGRAL WITH THE FIXTURE SHALL BE PROVIDED. THE BALLAST SHALL BE RATED FOR -20°F (-29°C) STARTING IN COLD WEATHER OPERATION. THE CANDLEPOWER VALUES INDICATED ARE TO BE CONSIDERED MINIMUM VALUES OBTAINED WITH STANDARD LAMPS AT RATED VOLTAGE.



NOTE:  
REFER TO SHEET 8 FOR NOTES AND LEGEND.

SYMBOL	DESCRIPTION	DATE	APPROVAL
⚡	GENERAL REVISION/LIGHTNING PROTECTION	11JUN98	WLS
⚠	GENERAL REVISION/SIMONS-EASTERN CO.	19JUL84	JYM

BLACK & VEATCH CONSULTING ENGINEERS KANSAS CITY, MISSOURI  
DEPARTMENT OF THE ARMY OFFICE OF THE CHIEF OF ENGINEERS MILITARY CONSTRUCTION - ENGINEERING DIVISION WASHINGTON, D.C.

DRAWN BY: S.M.C.  
TRACED BY: S.M.C.  
CHECKED BY: N.J.A.  
SUBMITTED BY: W.V. HILL  
APPROVED BY: O.F.M. LEE S. GARRETTE DATE: 11APR79  
CHIEF ADV. TECH. BR. CHIEF ENGINEERING DIVISION MIL. PROGR., O.C.E.  
APPROVED FOR: SCALE: SPEC. NO.  
DRAWING NUMBER: 33-15-74  
SHEET 9 OF 9

CONSULTING ENGINEERS FALLS CHURCH, INDIANA