

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER				DIMMING	VOLTAGE	REMARKS	
				ID	WATTS	LUMENS	CRI				
A	WILLIAMS	6DR SERIES	6" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPHERICAL LOW INDESCENT FINISH ALUMINUM REFLECTOR WITH WIDE BEAM DISTRIBUTION - 10" LENS OVER DRODES AND IC-RATED HOUSING	L20	19	1782	80	3000K	0-10V	120	1
A4	WILLIAMS	6DR SERIES	SAME AS TYPE A EXCEPT WITH A DIFFERENT LUMEN PACKAGE	L20	13.8	1487	80	3000K	0-10V	120	1
A5	WILLIAMS	6AR SERIES	6" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPHERICAL LOW INDESCENT FINISH ALUMINUM REFLECTOR WITH WIDE BEAM DISTRIBUTION - AND IC-RATED HOUSING	L30	31.3	2917	80	3000K	0-10V	120	1
A6	WILLIAMS	6AR SERIES	6" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPHERICAL LOW INDESCENT FINISH ALUMINUM REFLECTOR WITH WIDE BEAM DISTRIBUTION - WET/CO LENS OVER DRODES AND IC-RATED HOUSING	L30	31.3	2917	80	3000K	0-10V	120	1
B	WILLIAMS	4DR SERIES	4.5" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPHERICAL LOW INDESCENT FINISH ALUMINUM REFLECTOR WITH MEDIUM BEAM DISTRIBUTION - 10" LENS OVER DRODES AND IC-RATED HOUSING	L20	19.8	2005	80	3000K	0-10V	120	1
B2	WILLIAMS	4DR SERIES	4.5" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPHERICAL LOW INDESCENT FINISH ALUMINUM REFLECTOR WITH NARROW BEAM DISTRIBUTION - WET/CO LENS OVER DRODES AND IC-RATED HOUSING	L20	19.8	2005	80	3000K	0-10V	120	1
C	PROGRESS	FR00190-001-30	2x3 LIGHT LED SCENE FOR BATHROOM VANITY FURNISH WITH DOWNWARD FACING LUMINAIRES, MATTE BLACK SHADES, AND BRUSHED NICKEL FINISH	-	THREE (3) 100 WATT E26 SOCKET	-	-	3000K	0-10V	120	1,2
F	WILLIAMS	7SR SERIES	4x10" LONG STANDARD STRIP FIXTURE WITH ROUND LENS AND SURFACE MOUNTING. ALL PARTS PAINTED WHITE AFTER FABRICATION	L65	42.3	8313	80	3000K	0-10V	120	1
H	CAPITAL LIGHT FIXTURE COMPANY	426501MB	CHANDLER FURNISHED, CONTRACTOR INSTALLED PENDANT LIGHT. CONTRACTOR TO PROVIDE LED BULB MAX 14W PER BULB. COORDINATE WITH OWNER FOR BULB TYPE. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT/OWNER	-	168	1500	-	3000K	-	120	1,2,3
J	MILLENNIUM LIGHTING	R SERIES RWS17-RQ02	17" DIAMETER COGNACER WALL MOUNTED SHADE LIGHT. FURNISHED WITH SATIN BLACK FINISH. UL LISTED FOR WET LOCATIONS. VERIFY EXACT MOUNTING LOCATIONS AND HEIGHTS WITH ARCHITECT/OWNER	-	ONE (1) 200 WATT E26 SOCKET	-	-	3000K	-	120	1,2
K	INVEE LIGHTING	ARBOR POST TOP SERIES	DECORATIVE POST-TOP SINGLE-HEAD LIGHT. LED. WITH TWO-PIECE IP68 RATED CORROSION RESISTANT ALUMINUM HOUSING. WAVESTRIP LED OPTICS TYPE II DISTRIBUTION WITH 2" ROUND, ALUMINUM, TAPERED 14-0" TALL POLE BASE WITH COVER	B3	96	8740	80	3000K	0-10V	120	1
S1	MCGRAW-EDISON	GALLEON LED GLEON SERIES	POLE MOUNTED AREA LIGHT. LOW-PROFILE, ONE-PIECE DIE-CAST ALUMINUM HOUSING. LIGHT SQUARE LED ARRAY. REFER TO LAMP SPECIFICATION FOR QUANTITY. 18" TYP H INH DISTRIBUTION. DIE CAST ALUMINUM MOUNTING ARM. PROVIDE WITH 15" HIGH SQUARE STRAIGHT STEEL POLE. POWDER COAT FINISH DARK BRONZE - COORDINATE EXACT COLOR WITH ARCHITECT AND OWNER	S430	191	23,522	70	3000K	ND	120	1
S2	MCGRAW-EDISON	GALLEON LED GLEON SERIES	SAME AS TYPE S1 EXCEPT WITH HOUSE SIDE SHIELD	S430	191	23,522	70	3000K	ND	120	1
XE	DUAL-LIFE	EVC SERIES	COMBINATION EMERGENCY LIGHTING UNIT / EXIT LIGHT. UV-STABLE THERMOPLASTIC HOUSING, FINISH WHITE. ADJUSTABLE EYEBALL STYLE LIGHTING HEADS WITH GLASS LENS FOR EMERGENCY LIGHT. EXIT SIGN TO HAVE RED LETTERS WITH DIRECTIONAL ARROWS AS INDICATED ON THE PLANS. MAINTENANCE-FREE LITHIUM ION PHOSPHATE BATTERY FOR 90 MINUTE OPERATION OF LAMPS AND EXIT SIGN. FURNISH WITH CAPACITY FOR REMOTE HEAD. FULLY AUTOMATIC, SOLID-STATE CHARGER WITH TEST SWITCH AND AC-ON INDICATOR	-	TOTAL POWER CONSUMPTION = 2.4 WATTS EMERGENCY FOUR (4) HIGH-OUTPUT LEDS EXIT FOUR (4) HIGH-OUTPUT LEDS	-	-	-	-	120	-
ERH	DUAL-LIFE	EVO SERIES	OUTDOOR REMOTE WITH 2 HEADS. BLACK FINISH. LOW-PROFILE EMERGENCY LIGHTING UNIT. FLAME-RATED, UV-STABLE THERMOPLASTIC HOUSING. TWO (2) SEM-RECESSED, ADJUSTABLE EYEBALL HEADS WITH GLASS LENS. WHITE FINISH. MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMPS. INTEGRAL TEST SWITCH, SELF-DIAGNOSTICS AND AC-ON INDICATOR	-	2 WATT HEADS	-	-	-	-	120	1

- REMARKS:**
- FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.
 - FURNISH WITH CREW SCREW-IN BASE OMNIDIRECTIONAL LED LAMPS IN LIEU OF INCANDESCENT LAMPS. USE 9W LAMPS FOR 60W INCANDESCENT, 8W FOR 40W, 13.3W FOR 75W, AND 18W FOR 100W.
 - FIXTURE IS OWNER-PROVIDED. CONTRACTOR INSTALLED. COORDINATE EXACT ROUGH-IN REQUIREMENTS PRIOR TO CONSTRUCTION.
- GENERAL NOTES APPLICABLE TO ALL FIXTURES:**
- EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.
 - ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.
 - ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.
 - LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.
 - ALL EXTERIOR LED FIXTURES ARE FULL CUTOFF UNLESS NOTED OTHERWISE.
 - ALL FIXTURES IN FOOD PREPARATION OR SERVING AREAS SHALL BE FURNISHED WITH SHAFTER-RESISTANT LAMPS UNLESS NOTED.
 - ALL FIXTURES SHALL BE IC RATED OR PROVIDED WITH INSULATION SHIELDS WHEN INSTALLED IN INSULATED AREAS OF THE TRUSS SPACE.
 - FOR ALL FIXTURES INSTALLED IN RATED ASSEMBLIES, FURNISH AND INSTALL APPROVED FIRE BARRIER (E.Z. BARRIER OR TENANT FF109 SERIES) OVER FIXTURE TO MAINTAIN 1 HOUR CEILING ASSEMBLY RATING.
 - FIXTURE TO BE SELECTED BY OWNER AND FURNISHED AND INSTALLED BY CONTRACTOR.

SINGLE-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: **PP1**

MAIN LUG AMPS: 125
MAIN BREAKER: M.L.O.
VOLTAGE: 240/120
PHASE/WIRE: 1Ø 3W

DESCRIPTION	PHASE				TRIP	POLE	C/B	CIRCUIT #	DESCRIPTION
	A	B	TRIP	POLE					
SPARE	-	-	20	1	1	2	1	20	SPARE
SPARE	-	-	20	1	3	4	1	20	SPARE
SPARE	-	-	20	1	5	6	1	20	SPARE
SPARE	-	-	20	1	7	8	1	20	SPARE
SPARE	-	-	20	1	9	10	1	20	SPARE
SPARE	-	-	20	1	11	12	1	20	SPARE
SPARE	-	-	20	1	13	14	1	20	SPARE
SPARE	-	-	20	1	15	16	1	20	SPARE
SPARE	-	-	20	1	17	18	1	20	SPARE
SPACE	-	-	-	-	19	20	1	-	SPACE
SPACE	-	-	-	-	21	22	1	-	SPACE
SPACE	-	-	-	-	23	24	1	-	SPACE
SPACE	-	-	-	-	25	26	1	-	SPACE
SPACE	-	-	-	-	27	28	1	-	SPACE
SPACE	-	-	-	-	29	30	1	-	SPACE
SPACE	-	-	-	-	31	32	1	-	SPACE
SPACE	-	-	-	-	33	34	1	-	SPACE
SPACE	-	-	-	-	35	36	1	-	SPACE
SPACE	-	-	-	-	37	38	1	-	SPACE
SPACE	-	-	-	-	39	40	1	-	SPACE
SPACE	-	-	-	-	41	42	1	-	SPACE
TOTALS	0	0	-	-	41	42	1	-	TOTALS

PANELBOARD SIZING LOAD

LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	0	1.25	0
RECEPTACLES	0	100VA + 50% REST	0
MOTORS	0	1.25 (LARGEST) + SUM OF REST	0
AIR CONDITIONING	0	1.00	0
SPACE HEATING	0	0.00	0
NON-CONTINUOUS	0	1.25	0
POOL EQUIPMENT	16,000	1.00	16,000
MISC. LOADS 2	0	1.00	0
SIZING LOAD:	16,000		
SIZING LOAD (AMPS):		67	

CONNECTED PHASE LOADS

PHASE	VA	AMPS
A	0	0.0
B	0	0.0
TOTALS	0	0.0

REMARKS:
1. SQUARE D NO PANELBOARD OR EQUAL.

TWO-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: **CP1**

MAIN LUG AMPS: 400
MAIN BREAKER: 400
VOLTAGE: 240/120
PHASE/WIRE: 1Ø 3W

DESCRIPTION	PHASE				TRIP	POLE	C/B	CIRCUIT #	DESCRIPTION
	A	B	TRIP	POLE					
CONDENSING UNIT CU-1	2563	2563	30	2	3	4	1	20	RECEPT. POOL EQUIP
CONDENSING UNIT CU-2	1987	1987	30	2	5	6	1	20	RECEPT. RR 111, 112 COUNTER
WATER HEATER WH	2230	2230	25	2	9	10	1	20	RECEPT. RR 101 COR. EXT.
RECIRC PUMP RP-1	700	2250	15	1	11	12	1	20	LTS - CHRISTMAS LTS EAST
RECIRC PUMP RP-2	1175	20	15	1	13	14	1	20	LTS - CHRISTMAS LTS WEST
RECEPT. COMP. FLEX TV	150	150	20	1	15	16	1	20	RECEPT. COMP. FLEX TV
RECEPT. GREAT ROOM	900	900	20	1	17	18	1	20	RECEPT. GREAT ROOM
RECEPT. GREAT ROOM COUNTER	190	20	25	2	19	20	1	20	RECEPT. GREAT ROOM COUNTER
RECEPT. GREAT ROOM COUNTER	180	20	27	2	21	22	1	20	GREAT ROOM DISP.
ELECTRIC UNIT HEATER UH-1	2500	2500	30	2	23	24	1	20	RECEPT. GREAT ROOM COUNTER
RECEPT. COMP. FLEX	360	360	20	1	25	26	1	20	LTS - RR 101 CORRIDOR
LTS - POOL EQUIP	20	20	33	3	27	28	1	20	LTS - POOL DECK POST LIGHTS
LTS - MEN/WOMENS	842	99	20	1	29	30	1	20	LTS - EXTERIOR BLDG
LTS - CONF. RM	260	20	37	3	31	32	1	20	LTS - EXTERIOR SOFFIT
LTS - MECH/STOR. POOL STOR.	186	20	39	4	33	34	1	20	LTS - PATIO
TOTALS	12464	11595	-	-	41	42	1	-	SECURITY PANEL
TOTALS					306	640	TOTALS		

SECOND SECTION: CP1

MAIN LUG AMPS: 400
MAIN BREAKER: -
VOLTAGE: 240/120
PHASE/WIRE: 1Ø 3W

DESCRIPTION	PHASE				TRIP	POLE	C/B	CIRCUIT #	DESCRIPTION
	A	B	TRIP	POLE					
RECEPT. STORAGE	220	20	1	43	44	1	20	190	POOL LIGHTING CONTRACTOR
SPARE	-	-	-	-	45	46	1	20	LTS - PARKING LOT
LIGHTING CONTROL PANEL LCP-1	800	20	1	47	48	1	20	1003	LTS - GREAT ROOM
SPARE	-	-	-	-	49	50	1	20	RECEPT. COOKING AREA
SPARE	-	-	-	-	51	52	1	20	EXHAUST FAN (F-5)
SPARE	-	-	-	-	53	54	1	20	SPACE
SPARE	-	-	-	-	55	56	1	20	SPACE
SPARE	-	-	-	-	57	58	1	20	SPACE
SPARE	-	-	-	-	59	60	1	20	SPACE
SPARE	-	-	-	-	61	62	1	20	SPACE
SPARE	-	-	-	-	63	64	1	20	SPACE
SPARE	-	-	-	-	65	66	1	20	SPACE
SPARE	-	-	-	-	67	68	1	20	SPACE
SPARE	-	-	-	-	69	70	1	20	SPACE
SPARE	-	-	-	-	71	72	1	20	SPACE
SPARE	-	-	-	-	73	74	1	20	SPACE
SPARE	-	-	-	-	75	76	1	20	SPACE
SPARE	-	-	-	-	77	78	1	20	SPACE
SPARE	-	-	-	-	79	80	1	20	SPACE
PANELBOARD PP1	0	0	100	2	81	82	1	-	SPACE
SPARE	-	-	-	-	83	84	1	-	SPACE
TOTALS	1580	1580	-	-	1182	394	TOTALS		

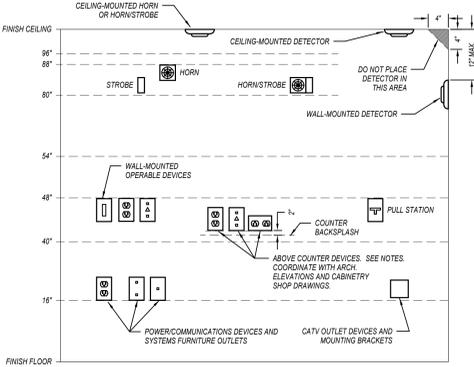
PANELBOARD SIZING LOAD

LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	8,542	1.25	11,928
RECEPTACLES	8,400	1.00	8,400
MOTORS	2,352	1.25 (LARGEST) + SUM OF REST	2,646
AIR CONDITIONING	8,100	1.00	8,100
SPACE HEATING	5,000	0.00	0
CONTINUOUS	4,872	1.25	5,846
NON-CONTINUOUS	200	1.00	200
POOL EQUIPMENT	16,000	1.00	16,000
MISC. LOADS 2	0	1.00	0
SIZING LOAD:	53,120		
SIZING LOAD (AMPS):		221	

CONNECTED PHASE LOADS

PHASE	VA	AMPS
A	18,322	152.7
B	19,349	162.2
TOTALS	38,271	159.5

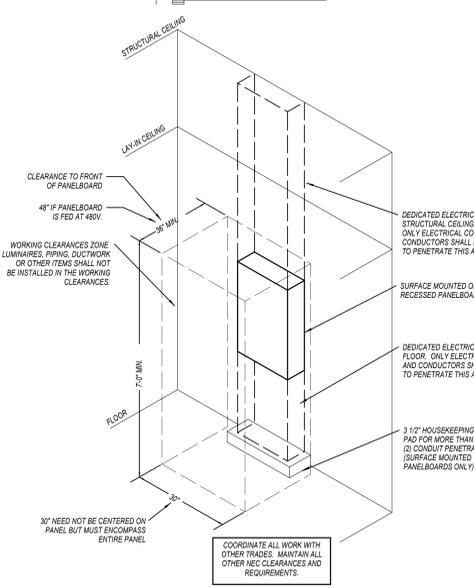
REMARKS:
1. SQUARE D NO PANELBOARD OR EQUAL.
2. PANELBOARD SHALL BE SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.



- GENERAL NOTES:**
- MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
 - SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
 - ALL INSTALLATIONS SHALL COMPLY WITH ADA.
- POWER/COMMUNICATIONS DEVICES AND SYSTEMS FURNITURE OUTLETS:**
OUTLETS SHALL BE LOCATED AT 18" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.
- WALL-MOUNTED OPERABLE DEVICES:**
LOCATE DEVICES SO THE BOTTOM OF THE DEVICE IS BETWEEN 90" AND 84" A.F.F. (N.F.P.A. OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010)).
- AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN):**
LOCATE DEVICES SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (N.F.P.A.).
- FIRE ALARM ACTIVATION DEVICES (PULL STATION):**
LOCATE FRONT APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (N.F.P.A.).
- WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:**
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
INTERCOMMUNICATION CALL DEVICES (INCLUDING THOSE FOR STAFF USE)
OTHER CONTROL OR "CALL" DEVICES

4 MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE 601-01



2 TYPICAL PANELBOARD INSTALLATION DETAIL

NOT TO SCALE E301

EQUIPMENT FAULT CURRENT RATING SCHEDULE

EQUIPMENT	SCA **	SCCR	NOTES
PANELBOARD CP1	20,907	42,000	1,2
PANELBOARD PP1	16,006	22,000	1

NOTES:
1. RATING BASED ON AN ASSUMED FAULT AT UTILITY CO. TRANSFORMER OF 43,490 AC.
2. BRANCH BREAKERS IN EQUIPMENT MAY BE SERIES RATED.
** CALCULATIONS PERFORMED USING BUSSMANN POINT-TO-POINT METHOD.

