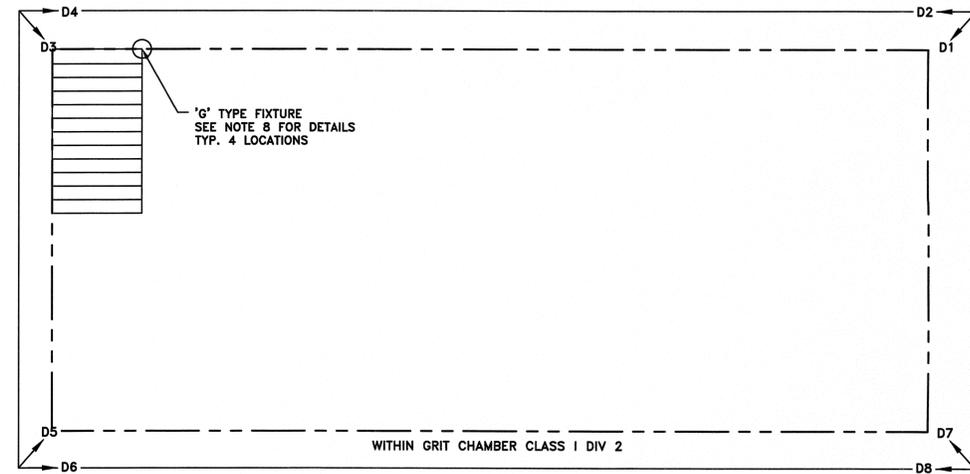


PANEL DESIGNATION	POWER PANEL PP-1
SERVICE	480/277V, 3Ø, 4 WIRE
MOUNTING	SURFACE
MAINS	400 AMP
FEED	----
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	42,000 AIC
ENCLOSURE TYPE	NEMA 12
LOCATION	ELECTRICAL CONTROL ROOM
MAIN	400A CIRCUIT BREAKER
VENDOR	SQUARE-D OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #	400AT	CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
CLASSIFIER CONTROL PANEL	XHHW	3/0	64KW	200A	1		2	20A	10KW	12	XHHW	UNIT HEATER EUH-1
					3		4	20A				
					5		6					
GRIT SCREW CONTROL PANEL	XHHW	8	12KW	40A	7		8					
					9		10	25A	15KW	10	XHHW	UNIT HEATER EUH-2
					11		12					
BAR SCREEN 801 CONTROL PANEL	XHHW	8	12KW	50A	13		14					
					15		16	20A	10KW	12	XHHW	UNIT HEATER EUH-3
					17		18					
BAR SCREEN 901 CONTROL PANEL	XHHW	8	12KW	50A	19		20					
					21		22	20A	6KW	12	XHHW	UNIT HEATER EUH-4
					23		24					
BRIDGE CRANE	XHHW	10	6.5KW	30A	25		26					
					27		28	20A	6KW	12	XHHW	UNIT HEATER EUH-5
					29		30					
BLOWER 101	XHHW	8	17.5KW	40A	31		32					
					33		34	20A	3.5KW	10	XHHW	HVAC CONTROL PANEL
					35		36					
BLOWER 201	XHHW	8	17.5KW	40A	37		38					
					39		40	70A	45KW	4	XHHW	LIGHTING TRANSFORMER LT-1
					41		42					
BLOWER 301	XHHW	8	17.5KW	40A	43		44					
					45		46					
					47		48					
SPACE	-	-	-	-	49		50					
					51		52					
					53		54					
SPACE	-	-	-	-	55		56					
					57		58					
					59		60					

ID	LAMPS	VENDOR	PART NUMBER	MOUNTING	DESCRIPTION
A	78 WATT LED	DIALIGHT OR EQUIVALENT	LSC3C4M3GXHE	JACK CHAIN MOUNT 13'-6" A.F.F.	INDOOR RATED CLASS I DIV 1 LED LIGHTING, 4'x2'
B	50 WATT LED	RAAB OR EQUIVALENT	GUS4-50NW/D10	JACK CHAIN MOUNT 13'-6" A.F.F.	INDOOR RATED LED WRAP LIGHTING
C	87 WATT LED	ECONOLIGHT OR EQUIVALENT	E-WP10L08CZ/EACP-1	SURFACE MOUNT 16'-0" A.F.G.	OUTDOOR DUSK TO DAWN LIGHTING LED TYPE WITH OPTIONAL PHOTOCELL
D	150 WATT LED	ECONOLIGHT OR EQUIVALENT	E-HL8F15CZZ/EACP-1	SEE MOUNTING TEMPLATE BELOW	OUTDOOR AREA FLOOD LIGHTING LED TYPE WITH OPTIONAL PHOTOCELL
E	3 WATT LED	ECONOLIGHT OR EQUIVALENT	E-XCL2RRCW	SURFACE	EMERGENCY EXIT COMBINATION FIXTURE WITH RED LETTERING, BACKUP 9.6V BATTERIES AND REMOTE HEAD CAPABILITIES
F	2 WATT LED	ECONOLIGHT OR EQUIVALENT	E-XHL2WW	SURFACE	DUAL REMOTE HEAD FIXTURE RATED FOR OUTDOOR LOCATIONS
EX	3 WATT LED	LAWSON OR EQUIVALENT	EPL-EXT-3W	SURFACE	EMERGENCY EXIT SIGN CLASS I DIV 1 RATED
G	26 WATT LED	RAAB LIGHTING OR EQUIVALENT	HAZPLED-26W-CF W/ PHOTOCELL OPTION	STANCHION MOUNT 10'-0"	OUTDOOR IP66 RATED CLASS I DIV 2 STANCHION MOUNT LED LIGHTING FOR STAIRCASE WALKWAY



GRIT CHAMBER LIGHTING LAYOUT DETAILS

PANEL DESIGNATION	LIGHTING PANEL LP-1
SERVICE	120/208V, 3Ø, 4 WIRE
MOUNTING	SURFACE
MAINS	100 AMP
FEED	----
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	22,000 AIC
ENCLOSURE TYPE	NEMA 12
LOCATION	ELECTRICAL CONTROL ROOM
MAIN	100A CIRCUIT BREAKER
VENDOR	SQUARE-D OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #	100AT	CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
LIGHTING CLASSIFIER ROOM	XHHW	12	312	20A	1		2	20A	1200	12	XHHW	SLUICE GATE 111
LIGHTING CONTROL ROOM	XHHW	12	100	20A	3		4	20A	1200	12	XHHW	SLUICE GATE 121
CONTROL ROOM GFCI	XHHW	12	180	20A	5		6	20A	1200	12	XHHW	SLUICE GATE 112
OUTDOOR AREA GFCI	XHHW	12	180	20A	7		8	20A	1200	12	XHHW	SLUICE GATE 401
CLASSIFIER T-131 HEAT TRACE	XHHW	12	360	20A	9		10	20A	1200	12	XHHW	SLUICE GATE 501
CLASSIFIER T-141 HEAT TRACE	XHHW	12	360	20A	11		12	20A	180	12	XHHW	HVAC GFCI
EXTERIOR LIGHTING	XHHW	12	435	20A	13		14	20A	180	12	XHHW	GAS MONITOR
GRIT CHAMBER WALKWAY LIGHTING	XHHW	12	78	20A	15		16	20A	1200	12	XHHW	SLUICE GATE 1000
GRIT CHAMBER FLOOD LIGHTING	XHHW	12	1200	20A	17		18	20A	1200	12	XHHW	SLUICE GATE 1001
SPARE	-	-	-	20A	19		20	20A	1200	12	XHHW	SLUICE GATE 1002
SPARE	-	-	-	20A	21		22	25A	3400	10	XHHW	CONDENSER CU-1
SPARE	-	-	-	20A	23		24					
SPARE	-	-	-	20A	25		26					
CLASSIFIER INFLUENT HEAT TRACE (T-131)	XHHW	12	600	20A	27		28	20A	-	-	-	SPARE
CLASSIFIER INFLUENT HEAT TRACE (T-141)	XHHW	12	600	20A	29		30					

NOTES - LIGHTING:

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- ALL ELECTRICAL WORK SHALL BE PERFORMED BY A NEW JERSEY LICENSED ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL INSTALL ALL NEW CONDUIT AND WIRING AS SHOWN.
- CONTRACTOR SHALL LOCATE ALL SWITCHES IN ACCORDANCE WITH A.D.A. REGULATIONS AND ALL RECEPTACLES SHALL BE INSTALLED AT A HEIGHT NOT LESS THAN 24" A.F.G.
- CONTRACTOR SHALL INSTALL EXPLOSION PROOF FITTINGS AS SHOWN IN ACCORDANCE WITH N.E.C. ARTICLES 500, 501 AND 502 AND IN ACCORDANCE WITH NFPA 820.
- ALL 'D' TYPE FIXTURES SHALL BE MOUNTED AT 10'-0" ABOVE GRIT CHAMBER WALL ON BRIDGE CRANE COLUMNS. CONTRACTOR SHALL COORDINATE WITH BRIDGE CRANE MANUFACTURER TO AVOID INTERFERENCES. ALL 'D' TYPE FIXTURE SHALL BE ANGLED AT 45 DEGREES.
- FIXTURE D1, D3, D5 AND D7 SHALL BE ORIENTED TO FACE INTO THE CENTER OF GRIT CHAMBER. FIXTURES D2, D4, D6 AND D8 SHALL BE ORIENTED TO FACE WALKING PATHS AS SHOWN.
- TYPE 'G' FIXTURES WITHIN THE GRIT CHAMBER STAIRCASE SHALL BE LOCATED AT EACH PLATFORM LOCATION FOR A TOTAL OF 4 FIXTURES. ALL TYPE 'G' FIXTURES SHALL BE MOUNTED ON PGRS STANCHIONS AND SHALL BE FASTENED TO THE PLATFORM RAILING SYSTEM USING STAINLESS STEEL HARDWARE AS NEEDED. ALL PGRS CONDUIT, ACCESSORIES AND WIRING SHALL BE INSTALLED ALONG PLATFORM RAILINGS AND IN ACCORDANCE WITH NEC ARTICLE 501 FOR CLASSIFIED AREAS.

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 APPROVED: Richard A. Alaimo PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 13195	REVISIONS 1. GENERAL DATE: 4/13/17 BY: DJ5	 RICHARD A. ALAIMO ENGINEERING COMPANY Consulting Engineers NJDCA 24GA2988800 200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.	GRIT CHAMBER UPGRADE	CLIENT: WOODBRIIDGE TOWNSHIP	DATE: APRIL 2017 DESIGNED BY: JRN DRAWN BY: DM CHECKED BY:	SHEET E7
	ELECTRICAL SCHEDULES 2 OF 2		PROJECT LOCATION: WOODBRIIDGE TOWNSHIP MIDDLESEX COUNTY NEW JERSEY	PROJECT NO.: B-0726-0023-000 CONTRACT NO.: 1230	DEPT. HEAD:	FILE NO.: