

PANEL DP_02		LOCATION ROOM 203										VOLTS 480Y/277V				
FED FROM	CKT #	MOUNTING Recessed		MAIN		MAIN		WIRE		FEEDER		BUS				
DP_01	20			PHASE 3		WIRE 4		FEEDER 4*350KCMIL		BUS 225						
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATER HC-01	1	3	12	20	75000	25000	25000	25000	8000	20	3	2	HEATER HC-06	2	
3		3					0	0	0						4	
5		5					0	0	0						6	
7	HEATER HC-02	7	3	12	20	12000	4000	4000	4000	8000	20	3	8	HEATER HC-07	8	
9		9					0	0	0						10	
11		11					0	0	0						12	
13	HEATER HC-04	13	3	12	20	25000	8333	8333	8333	6000	20	3	14	HEATER HC-08	14	
15		15					0	0	0						16	
17		17					0	0	0						18	
19	HEATER HC-05	19	3	12	20	8000	2667	2667	2667	6319	30	3	20	SUPPLY CRANE MOTOR	20	
21		21					0	0	0						22	
23		23					0	0	0						24	
25	LIGHTS ROOM 202	25	1	20	20	1824	1284	0	0	20	20	1	26	SPARE	26	
27	OUTSIDE LTG. ROOM 209	27	1	20	20	622	0	622	0	50	20	1	28	EMERG BATT PACKS	28	
29	LIGHTS ROOM 203,209	29	1	20	20	1547	0	1547	3234	20	1	30	LIGHTS ROOM 204,205	30		
31	LIGHTS ROOM 208	31	1	20	20	188	188	0	0	855	20	1	32	LIGHTS ROOM 206,207	32	
33	ROLLUP DOORS	33	3	20	20	4489	1496	0	43	43	20	1	34	SPARE	34	
35		35	*				0	1496	0	20	1	36	SPARE	36		
37		37	*				0	0	1496	20	1	38	SPARE	38		
39	SPARE	39	1	20	20		0	0	0			1	40	SPARE	40	
41	SPARE	41	1	20	20		0	0	0			1	42	SPARE	42	
TOTAL							53803	51651	55717							
TOTAL CONNECTED LOAD (VA)							161171									
(AMPS)							193.85									

NOTE 5 ON DWG LA-E-008.

PANEL VEAC_01B		LOCATION ROOM 203										VOLTS 480Y/277V				
FED FROM	CKT #	MOUNTING Recessed		MAIN		MAIN		WIRE		FEEDER		BUS				
DP_01	26			PHASE 3		WIRE 4		FEEDER 4*300KCMIL		BUS 225A						
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATING BLANKET CART	1	3	10	30	27000	9000	9000	9000	20000	30	3	2	CRYOPUMP REGENERATOR	2	
3		3					0	0	0						4	
5		5					0	0	0						6	
7	MAIN TURBO PUMP	7	1	20	20	400	400	0	0	20	20	3	8	SPARE	8	
9	BAKEOUT CLEAN ROOM	9	3	60	60		0	0	0						10	
11		11					0	0	0						12	
13		13					0	0	0						14	
15	HU-01 RM 203	15	3	10	20	14000	4667	4667	4667	14000	20	1	16	HU-02 RM 203	16	
17		17					0	0	0						18	
19		19					0	0	0						20	
21	SPARE	21	1	20	20		0	0	0						22	
23	SPARE	23	1	20	20		0	0	0						24	
25	GATE VALVE	25	3	20	20		0	0	0			60	6	3	26	
27		27					0	0	0						28	
29		29					0	0	0						30	
TOTAL							25401	25001	25001							
TOTAL CONNECTED LOAD (VA)							75403									
(AMPS)							90.7									

NOTE:
 1. PANELS DP_01, DP_02, VEAC_01B AND VEAC_02B ARE TYPICAL FOR END STATIONS A AND B.

ARM 2 - MID & END		ARM 1 - END														
PANEL RP_01		LOCATION ROOM 203										VOLTS 208Y/120V				
FED FROM	CKT #	MOUNTING Surface Mount		MAIN		MAIN		WIRE		FEEDER		BUS				
DP_01	19			PHASE 3		WIRE 4		FEEDER 4*2/0 & 1*4		BUS 100A						
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	RCPT ROOM 202	1	1	12	20	1080	1080	0	0	900	20	12	1	2	RCPT ROOM 207,206,208	2
3	RCPT ROOM 202	3	1	12	20	3600	0	1800	1800	900	20	12	1	4	RCPT ROOM 203,204,205	4
5	FA PANEL & RFAR	5	1	12	20		0	0	1080	1080	20	12	1	6	RCPT ROOM 206,207,208	6
7	RCPT ROOM 210,203	7	1	12	20	900	900	0	0	240	20	12	1	8	EXHAUST FAN	8
9	RCPT ROOM 203,204,205	9	1	12	20	720	0	720	0		20	12	1	10	PROPANE TOILET	10
11	RCPT ROOM 203	11	1	12	20	720	0	0	720	540	20	12	1	12	EXHAUST FAN	12
13	LIGHTING 203	13	1	12	20		0	0	0		20	12	1	14	GLYCOL PUMP	14
15	LIGHTING 203	15	1	12	20		0	0	0		20	12	1	16	EXIT LIGHT MASTER PNL	16
17	SF-1 ACTUATOR	17	1	12	20		0	0	180		20	12	1	18	SPARE	18
19	SF-2 ACTUATOR	19	1	12	20		0	0	0		20	12	1	20	SPARE	20
21	CONTROL PANEL POWER	21	1	12	20		0	0	0		20	12	1	22	CHILLER YARD 120V	22
23	SPARE	23	1	12	20		0	0	0		20	12	1	24	SPARE	24
TOTAL							3120	3420	4140							
TOTAL CONNECTED LOAD (VA)							10770									
(AMPS)							29.89									

ARM 1 - END		ARM 1 - END														
PANEL RP_01		LOCATION ROOM 203										VOLTS 208Y/120V				
FED FROM	CKT #	MOUNTING Surface Mount		MAIN		MAIN		WIRE		FEEDER		BUS				
DP_01	19			PHASE 3		WIRE 4		FEEDER 4*2/0 & 1*4		BUS 100A						
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	TRIP	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	TRIP	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	RCPT ROOM 202	1	1	12	20	1080	1080	0	0	900	20	12	1	2	RCPT ROOM 207,206,208	2
3	RCPT ROOM 202	3	1	12	20	3600	0	1800	1800	900	20	12	1	4	RCPT ROOM 203,204,205	4
5	FA PANEL & RFAR	5	1	12	20		0	0	1080	1080	20	12	1	6	RCPT ROOM 206,207,208	6
7	RCPT ROOM 210,203	7	1	12	20	900	900	0	0	240	20	12	1	8	PROPANE TOILET	8
9	RCPT ROOM 203,204,205	9	1	12	20	720	0	720	0		20	12	1	10		10
11	RCPT ROOM 203	11	1	12	20	720	0	0	720	540	20	12	1	12	EXHAUST FAN	12
13	LIGHTING 203	13	1	12	20		0	0	0		20	12	1	14	GLYCOL PUMP	14
15	LIGHTING 203	15	1	12	20		0	0	0		20	12	1	16	EXIT LIGHT MASTER PNL	16
17	SF-1 ACTUATOR	17	1	12	20		0	0	180		20	12	1	18	SPARE	18
19	SF-2 ACTUATOR	19	1	12	20		0	0	0		20	12	1	20	SPARE	20
21	CONTROL PANEL POWER	21	1	12	20		0	0	0		20	12	1	22	CHILLER YARD 120V	22
23	SPARE	23	1	12	20		0	0	0		20	12	1	24	SPARE	24
TOTAL							3120	3420	4140							
TOTAL CONNECTED LOAD (VA)							10770									
(AMPS)							29.89									

PANEL VEAC_02B		LOCATION ROOM 202										VOLTS 480Y/277V				
FED FROM	CKT #	MOUNTING Recessed		MAIN		MAIN		WIRE		FEEDER		BUS				
DP_01	31			PHASE 3		WIRE 4		FEEDER 4*1 & 1*6		BUS 125						
CKT	LOAD SERVED	SLOT	POLES	WIRE SIZE	BKR	VOLT AMPS	PHASE LOAD (VA)			VOLT AMPS	BKR	WIRE SIZE	POLES	SLOT	LOAD SERVED	CKT
1	HEATING BLANKET CART	1	3	60	60	27000	9000	9000	9000	20000	30	3	2	CRYOPUMP REGENERATOR	2	
3		3					0	0	0						4	
5		5					0	0	0						6	
7	MAIN TURBO PUMP 1	7	3	20	20	400	400	0	0	20	20	3	8	SPARE	8	
9		9					0	0	0						10	
11		11					0	0	0						12	
TOTAL							16067	15667	15667							
TOTAL CONNECTED LOAD (VA)							47401									
(AMPS)							57.0									

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REVISIONS 2 6-15-98 J.G. [Signature] ISSUED FOR AS-BUILT 1 3-21-97 J.G. K.R. TDM GENERAL REVISIONS		ISSUED FOR CONSTRUCTION DRAWN M.M. 6-25-96 CHECKED J.K. 7-3-96 ENGINEER K.R. 7-3-96 PROJ M.D.W. 7-9-96		AS-BUILT DRAWINGS		100 WEST WALNUT STREET PASADENA, CALIFORNIA		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		LIGO-D960415-02-0 LASER INTERFEROMETER GRAVITATIONAL-WAVE OBSERVATORY SITE NO. 1 - HANFORD, WASHINGTON		SCALE: AS NOTED CONTRACT NUMBER: PPI50969 PROJECT NUMBER: 8094 SHEET NUMBER: WA-E-205	
DRAWING NO.	DESCRIPTION	NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION					