

PANEL: DP

#	Description	Trip	Poles	Options	Wire and Conduit	A	B	C	A	B	C	Wire and Conduit	Options	Poles	Trip	Description	#
1	PANEL A	150 A	3		*	16140 VA			0 VA			0 VA		3	30 A	SPD	2
3	--	--	--	--	--	20430 VA			0 VA			0 VA		--	--	--	4
5	--	--	--	--	--	15600...			0 VA			0 VA		--	--	--	6
7	PANEL B	150 A	3		*	14410 VA			0 VA			C2-20		1	20 A	IRRIGATION - SITE	8
9	--	--	--	--	--	14200 VA			351 VA	**		PC/CT		1	20 A	LIGHTING - SITE	10
11	--	--	--	--	--	13200...			585 VA	**		PC/CT		1	20 A	LIGHTING - SITE	12
13	PANEL NL	100 A	3		*	4896 VA			1000 VA			C2-30		1	20 A	MONUMENT SIGN	14
15	--	--	--	--	--	4575 VA			1000 VA			C2-30		1	20 A	MONUMENT SIGN	16
17	--	--	--	--	--	2388 VA			0 VA					1	20 A	SPARE	18
19	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	22
23	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	24
25	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	28
29	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	30
31	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	34
35	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	36
37	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	40
41	SPARE	20 A	1		--	0 VA			0 VA					1	20 A	SPARE	42

Load Description	Connected Load (VA)	Demand Factor	Estimated Demand...	Connected Load (VA)	Load (VA)	Amps (A)	Panel Options	Circuit Breaker Options
Lighting	11827 VA	125.00%	14784 VA	Phase A: 36622...	311 A		208Y/120V, 30, 4W	AFCI Arc Fault Circuit Interrupter
Receptacle	96480 VA	55.18%	53240 VA	Phase B: 42540...	344 A			GFCI GFCI-Personnel (4-6 mA)
Motor	0 VA	0.00%	0 VA	Phase C: 32057...	287 A			GF-E GFCI-Equipment (30 mA)
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 109228 VA				GFP Ground Fault Protection
Heating	0 VA	0.00%	0 VA	Total Est. Demand: 69177 VA				ST Shunt Trip
Cooling	0 VA	0.00%	0 VA	Minimum Bus...	400A			L-ON CB Lock in Closed Position
Continuous Load	0 VA	0.00%	0 VA	Total Conn.: 303 A				L-OFF CB Lock in Open Position
Non-continuous Load	0 VA	0.00%	0 VA	Total Est. Demand: 192 A				TC/TC Timeclock On/Timeclock Off
								PC/PC Photocell On/Photocell Off

Notes
*See Feeder Schedule. **See Site Plan.

PANEL: NL

#	Description	Trip	Poles	Options	Wire and Conduit	A	B	C	A	B	C	Wire and Conduit	Options	Poles	Trip	Description	#
1	LTG AREA A RM 110-120	20 A	1		C2-20	840 VA			0 VA					3	30 A	SPD	2
3	LTG LOBBY 101, 103	20 A	1		C2-20	913 VA			0 VA					--	--	--	4
5	LTG AREA A RM 104-125	20 A	1		C2-20				512 VA			0 VA		--	--	--	6
7	LTG AREA A RM 126-134	20 A	1		C2-20	840 VA			460 VA			C2-20		1	20 A	LTG AREA A RM 140, 143	8
9	LTG AREA A CORRIDOR	20 A	1		C2-20				935 VA			746 VA		1	20 A	LTG AREA A CORRIDOR	10
11	LTG AREA B RM 144-154	20 A	1		C2-20				769 VA			278 VA		1	20 A	LTG AREA B RM 155-168	12
13	LTG AREA B RM 159-164	20 A	1		C2-20	600 VA			1080 VA			C2-20		1	20 A	LTG AREA B RM 170-183	14
15	LTG AREA B CORRIDOR	20 A	1		C2-20				1126 VA			139 VA		1	20 A	LTG AREA B RM 165	16
17	LTG AREA B EXTERIOR	20 A	1		C2-20				135 VA			0 VA		1	20 A	LTG AREA A EX CLG FANS	18
19	LTG AREA A EX WALL...	20 A	1		C2-20	180 VA			280 VA			C2-20		1	20 A	LTG AREA A RM 125	20
21	LTG AREA A RM 122	20 A	1		C2-20				139 VA			280 VA		1	20 A	LTG AREA B RM 168	22
23	LTG AREA B EX CLG FAN	20 A	1		C2-20				0 VA			657 VA		1	20 A	LTG AREA B CORRIDOR	24
25	LTG BASEMENT	20 A	1		C2-20	468 VA			144 VA			C2-20		1	20 A	LTG MEZZ A	26
27	LTG PENTHOUSE	20 A	1		C2-20	180 VA			108 VA			C2-20		1	20 A	LTG MEZZ B	28
29	LTG LANDSCAPE	20 A	1		PC/CT	C2-30			162 VA			0 VA		1	20 A	SPARE	30
31	LTG LANDSCAPE	20 A	1		PC/CT	C2-30			190 VA			0 VA		1	20 A	SPARE	32
33	LTG LANDSCAPE	20 A	1		PC/CT	C2-30			264 VA			0 VA		1	20 A	SPARE	34
35	SPARE	20 A	1		--	0 VA			0 VA			0 VA		1	20 A	SPARE	36
37	SPARE	20 A	1		--	0 VA			0 VA			0 VA		1	20 A	SPARE	38
39	SPARE	20 A	1		--	0 VA			0 VA			0 VA		1	20 A	SPARE	40
41	SPARE	20 A	1		--	0 VA			0 VA			0 VA		1	20 A	SPARE	42

Load Description	Connected Load (VA)	Demand Factor	Estimated Demand...	Connected Load (VA)	Load (VA)	Amps (A)	Panel Options	Circuit Breaker Options
Lighting	11827 VA	125.00%	14784 VA	Phase A: 4896 VA	44 A		208Y/120V, 30, 4W	AFCI Arc Fault Circuit Interrupter
Receptacle	0 VA	0.00%	0 VA	Phase B: 4575 VA	41 A			GFCI GFCI-Personnel (4-6 mA)
Motor	0 VA	0.00%	0 VA	Phase C: 2388 VA	20 A			GF-E GFCI-Equipment (30 mA)
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 11927 VA				GFP Ground Fault Protection
Heating	0 VA	0.00%	0 VA	Total Est. Demand: 1784 VA				ST Shunt Trip
Cooling	0 VA	0.00%	0 VA	Total Conn.: 33 A				L-ON CB Lock in Closed Position
Continuous Load	0 VA	0.00%	0 VA	Total Est. Demand: 41 A				L-OFF CB Lock in Open Position
Non-continuous Load	0 VA	0.00%	0 VA					TC/TC Timeclock On/Timeclock Off
								PC/PC Photocell On/Photocell Off

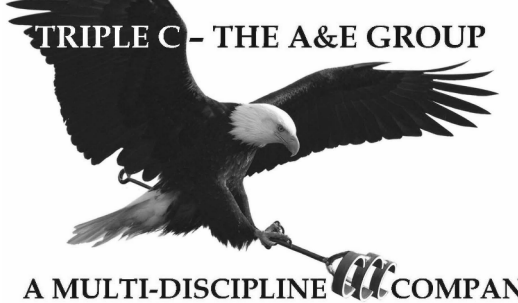
Notes

COPPER WIRE AND CONDUIT SCHEDULE											
3 Phase, 4 Wire						3 or 1 Phase, 3 Wire			1 Phase, 2 Wire		
Designation	Parallel Runs	Conductors (AWG/kcmil)	Equipment Ground (AWG/kcmil)	Conduit	Conductors (AWG/kcmil)	Equipment Ground (AWG/kcmil)	Conduit	Conductors (AWG/kcmil)	Equipment Ground (AWG/kcmil)	Conduit	Conductors (AWG/kcmil)
C-20	1	4 # 12	1 # 12	3/4"	3 # 12	1 # 12	3/4"	2 # 12	1 # 12	3/4"	3/4"
C-30	1	4 # 10	1 # 10	3/4"	3 # 10	1 # 10	3/4"	2 # 10	1 # 10	3/4"	3/4"
C-40	1	4 # 8	1 # 10	1"	3 # 8	1 # 10	3/4"	2 # 8	1 # 10	3/4"	3/4"
C-60	1	4 # 6	1 # 10	1"	3 # 6	1 # 10	1"	2 # 6	1 # 10	1"	1"
C-70	1	4 # 4	1 # 8	1-1/2"	3 # 4	1 # 8	1"	2 # 4	1 # 8	1"	1"
C-80	1	4 # 3	1 # 8	1-1/2"	3 # 3	1 # 8	1-1/2"	2 # 3	1 # 8	1"	1"
C-100	1	4 # 3	1 # 8	1-1/2"	3 # 3	1 # 8	1-1/2"	2 # 3	1 # 8	1"	1"
C-110	1	4 # 2	1 # 6	1-1/2"	3 # 2	1 # 6	1-1/2"	2 # 2	1 # 6	1-1/2"	1-1/2"
C-120	1	4 # 1	1 # 6	2"	3 # 1	1 # 6	1-1/2"	2 # 1	1 # 6	1-1/2"	1-1/2"
C-150	1	4 # 1/2	1 # 6	2"	3 # 1/2	1 # 6	1-1/2"	2 # 1/2	1 # 6	1-1/2"	1-1/2"
C-175	1	4 # 3/8	1 # 6	2"	3 # 3/8	1 # 6	1-1/2"	2 # 3/8	1 # 6	1-1/2"	1-1/2"
C-200	1	4 # 3/8	1 # 6	2"	3 # 3/8	1 # 6	2"	2 # 3/8	1 # 6	2"	2"
C-225	1	4 # 4/8	1 # 4	3"	3 # 4/8	1 # 4	2"				
C-250	1	4 # 250	1 # 4	3"	3 # 250	1 # 4	3"				
C-300	1	4 # 350	1 # 4	3"	3 # 350	1 # 4	3"				
C-400	1	4 # 500	1 # 3	3-1/2"	3 # 500	1 # 3	3"				
C-500	2	4 # 500	1 # 2	3"	3 # 250	1 # 2	3"				
C-600	2	4 # 350	1 # 1	3"	3 # 350	1 # 1	3"				
C-800	2	4 # 500	1 # 1/2	3-1/2"	3 # 500	1 # 1/2	3"				
C-1000	3	4 # 400	1 # 2/3	3"	3 # 400	1 # 2/3	3"				
C-1200	3	4 # 600	1 # 3/4	4"	3 # 600	1 # 3/4	3-1/2"				

- Notes
1. All conductors indicated in schedule shall be copper.
2. Designation followed with "V" indicates conductor size increased due to voltage drop.
3. Designation followed with "SE" indicates service entrance conductors with no ground.
4. Designation "C" followed with "1" indicates the number of wires. Refer to that column for Conductors, E.G. & Conduit sizes.

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Office of
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VA U.S. Department
of Veterans Affairs

Drawing Title
SCHEDULES - ELECTRICAL

Approved:

PANEL: MDP

#	Description	Trip	Poles	Options	Wire and Conduit	A	B	C	A	B	C	Wire and Conduit	Options	Poles	Trip	Description	#
1	PANEL LS VIA ATLS-LS	150 A	3		*	1365 VA			0 VA			0 VA		3	30 A	SPD	2
3	--	--	--	--	--	1486 VA			0 VA			0 VA		--	--	--	4
5	--	--	--	--	--	1354 VA			0 VA			0 VA		--	--	--	6
7	PANEL EQ VIA ATSE-EQ	1000 A	3		*	78030 VA			36622...			*		3	400 A	PANEL DP VIA ATSE-OP	8
9	--	--	--	--	--	94610 VA			40549 VA			--		--	--	--	10
11	--	--	--	--	--	77851...			32057 VA			--		--	--	--	12
13	SPARE	20 A	1		--	0 VA			0 VA			--		1	20 A	SPARE	14
15	SPARE	20 A	1		--	0 VA			0 VA			--		1	20 A	SPARE	16
17	SPARE	20 A	1		--	0 VA			0 VA			--		1	20 A	SPARE	18
19	SPARE	20 A	1		--	0 VA			0 VA			--		--	--	--	20
21	SPARE	20 A	1		--	0 VA			0 VA			--		1	20 A	SPARE	22
23	SPARE	20 A	1		--	0 VA			0 VA			--		--	--	--	24

Load Description	Connected Load (VA)	Demand Factor	Estimated Demand...	Connected Load (VA)	Load (VA)	Amps (A)	Panel Options	Circuit Breaker Options
Lighting	16028 VA	125.00%	20035 VA	Phase A: 116017...	973 A		208Y/120V, 30, 4W	AFCI Arc Fault Circuit Interrupter
Receptacle	122180 VA	54.09%	66090 VA	Phase B: 136644...	1145 A			GFCI GFCI-Personnel (4-6 mA)
Motor	223292 VA	114.32%	255260 VA	Phase C: 111261...	927 A			GF-E GFCI-Equipment (30 mA)
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 363922 VA				GFP Ground Fault Protection
Heating	1498 VA	100.00%	1498 VA	Total Est. Demand: 344038 VA				ST Shunt Trip
Cooling	0 VA	0.00%	0 VA	Total Conn.: 1010 A				L-ON CB Lock in Closed Position
Continuous Load	0 VA	0.00%	0 VA	Total Est. Demand: 955 A				L-OFF CB Lock in Open Position
Non-continuous Load	0 VA	0.00%	0 VA					TC/TC Timeclock On/Timeclock Off