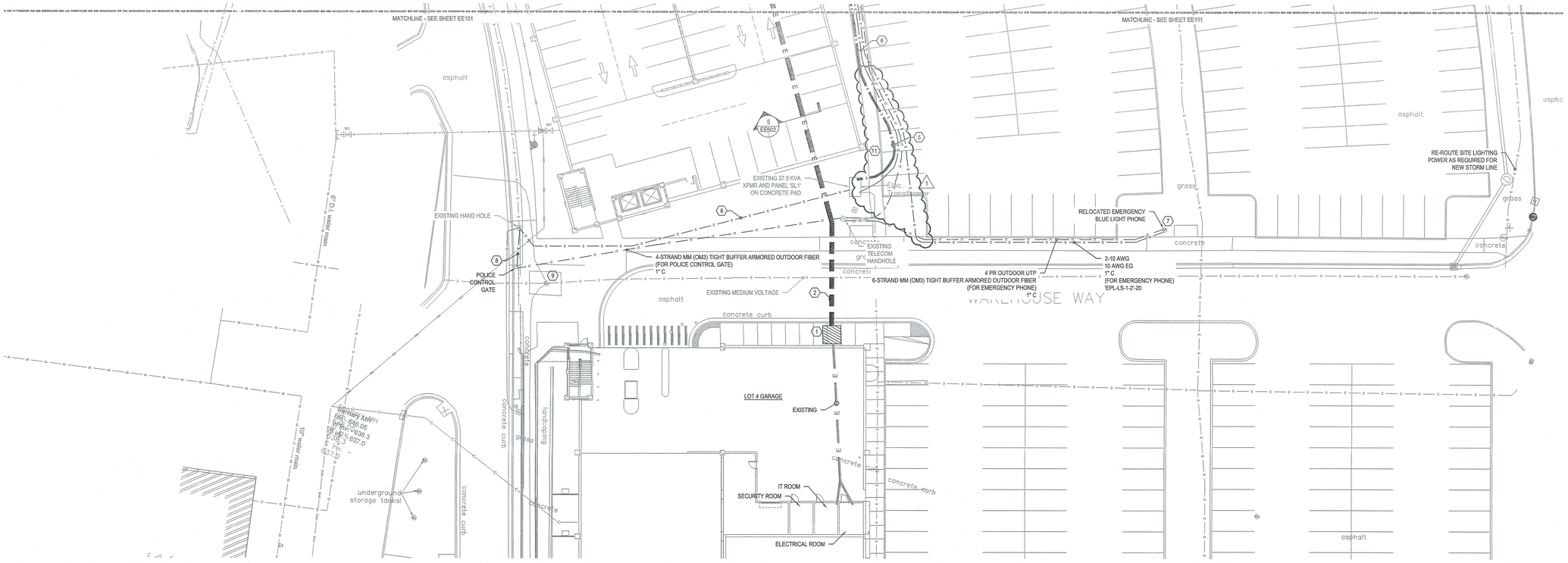
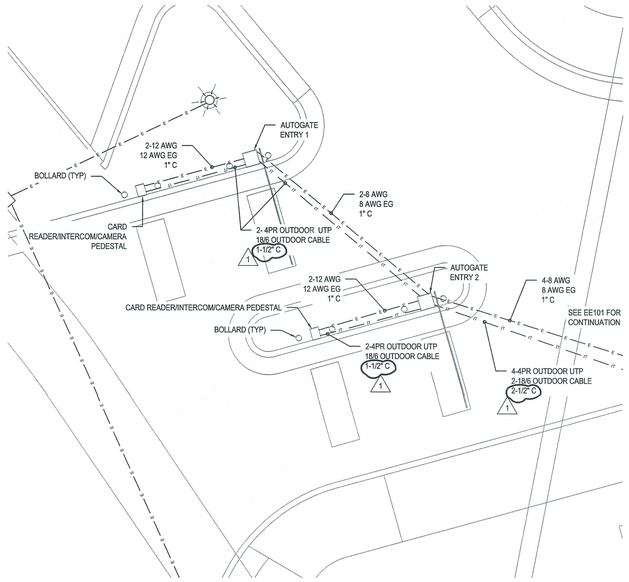
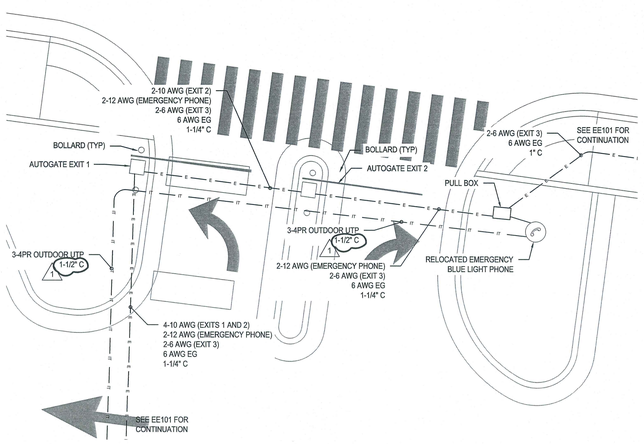


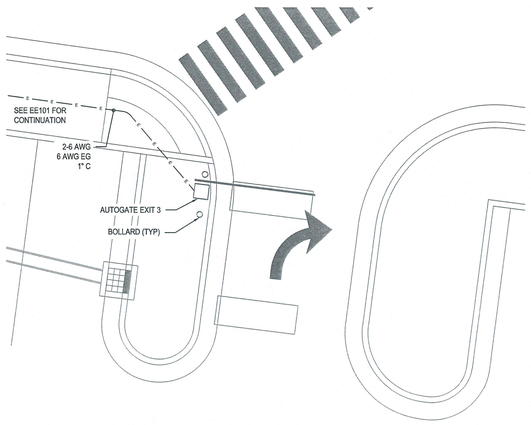
1 EE102 ELECTRICAL SITE PLAN
1" = 20'



2 EE102 AUTOGATE ENTRY
3/16" = 1'



3 EE102 AUTOGATE EXIT 1 AND 2
3/16" = 1'



4 EE102 AUTOGATE EXIT 3
3/16" = 1'

SITE EQUIPMENT CIRCUIT SCHEDULE	
AUTOGATE ENTRY 1	'PL-1-2'-15
AUTOGATE ENTRY 2	'PL-1-2'-17
AUTOGATE EXIT 1	'PL-1-2'-21
AUTOGATE EXIT 2	'PL-1-2'-23
AUTOGATE EXIT 3	'PL-1-2'-25
EMERGENCY PHONE (NORTH)	'EPL-LS-1-2'-18
EMERGENCY PHONE (SOUTH)	'EPL-LS-1-2'-20
"LOT FULL" SIGN	'PL-1-2'-19
POLICE CONTROL GATE	'EPL-Q-1-2'-9

LINETYPE LEGEND

- E — E — CONCRETE-ENCASED DUCTBANK
- E — E — POWER CONDUIT, DIRECT-BURIED PVC
- IT — IT/DATA CONDUIT, DIRECT-BURIED PVC

GENERAL NOTES

A. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL DETERMINE ALL CONDUIT ROUTING.

B. ALL WORK SHALL BE COORDINATED WITH COR AND OTHER TRADES.

C. AFTER WORK IS DONE, CONTRACTOR SHALL RESTORE ALL AFFECTED AREAS TO THEIR ORIGINAL CONDITION.

D. COORDINATE EXACT LOCATIONS AND ANGLES OF EMERGENCY PHONES WITH THE COR.

E. VERIFY PARKING CONTROL AND EMERGENCY PHONE CABLING REQUIREMENTS WITH MANUFACTURER/REPRESENTATIVE.

F. INSTALL POLE LIGHTS PER POLE BASE DETAIL, EE502.

G. INSTALL EMERGENCY BLUE LIGHT PHONES PER MANUFACTURER'S RECOMMENDATIONS.

H. PROVIDE NEW PANEL SCHEDULE FOR PANEL 'SL1'.

KEYED NOTES

1. APPROXIMATE LOCATION OF EXISTING TERMINATION OF CONCRETE-ENCASED DUCT BANK FROM LOT 4 GARAGE. INTERCEPT EACH CONDUIT TO CONTINUE DUCTBANK. SEE SINGLE-LINE DIAGRAM FOR DETAILS. CONDUIT MAY BE REDUCED TO SIZE INDICATED ON SINGLE-LINE. SPARE 4" CONDUIT SHALL STUB UP IN IT ROOM. SEE CIVIL SHEETS FOR DETAILS. 1
2. CONDUIT BENEATH ROAD SHALL BE BY DIRECTIONAL BORE. ROAD IS TO REMAIN IN-USE DURING CONSTRUCTION. SEE CIVIL PLANS FOR ADDITIONAL DETAILS.
3. NOT USED.
4. PROVIDE 6'x10' MANHOLE FOR MEDIUM-VOLTAGE INTERCEPTION AND RE-ROUTING. SEE MANHOLE DETAIL, EE502.
5. INTERCEPT AND RE-ROUTE 15kV FEEDER, 2-1 AWG, 3" C, ENCASE IN 3" 3000 PSI CONCRETE. INTERCEPT EXISTING LINE AND SPLICE WITHIN NEW MANHOLE. SEE MANHOLE DETAIL, EE502.
6. INTERCEPT AND RE-ROUTE EXISTING 240 V SITE LIGHTING CIRCUIT. DETERMINE SIZE AND QUANTITY OF EXISTING WIRING AND REPLACE WITH LIKE-KIND. PROVIDE PULL BOXES AS REQUIRED.
7. EMERGENCY PHONE SHALL BE RELOCATED DURING CONSTRUCTION PHASE 1 AND EXISTING POWER AND DATA CABLING SHALL BE RE-ROUTED TO TEMPORARILY SERVE THE PHONE. EMERGENCY PHONE SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. UPON COMPLETION OF GARAGE CONSTRUCTION, PHONE SHALL BE DISCONNECTED FROM THE EXISTING TEMPORARY FEED AND RECONNECTED TO BE FED FROM THE GARAGE.
8. CIRCUIT POLICE CONTROL GATE TO EXISTING 1P-20A BREAKER IN PANEL 'SL1' FORMERLY SERVING EMERGENCY BLUE LIGHT PHONE. REROUTE EXISTING CONDUCTORS.
9. PROVIDE EXTENTION RING(S) FOR MANHOLE AS REQUIRED TO RAISE COVER TO NEW FINISHED GRADE.
10. PROVIDE CONDUIT AND WIRING TO INTERCONNECT SIGN AND CONTROLLER PER MANUFACTURER'S INSTRUCTIONS. 1
11. COORDINATE ROUTING TO AVOID EARTH RETENTION SYSTEMS.

Revisions:	Date
1 AMENDMENT 1	29 APR 2016

VA U.S. Department of Veterans Affairs
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BID SET

Drawing Title	Project Title	A/E Project Number	
ELECTRICAL SITE PLAN	PARKING STRUCTURE LOT 7	14-692	OFFICE OF FACILITIES MANAGEMENT
		Building Number #152	
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location CLEMENT J ZABLOCKI VAMC	Drawing Number EE102	VA Project Number 695-325
	Date 1 DEC 2015 / Checked By: JKM / Drawn By: SCB		VA U.S. Department of Veterans Affairs

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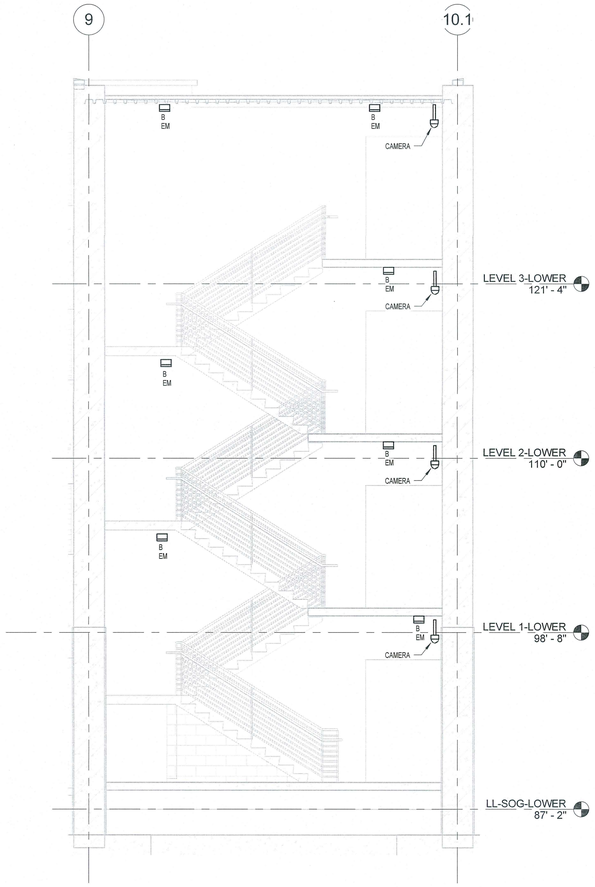
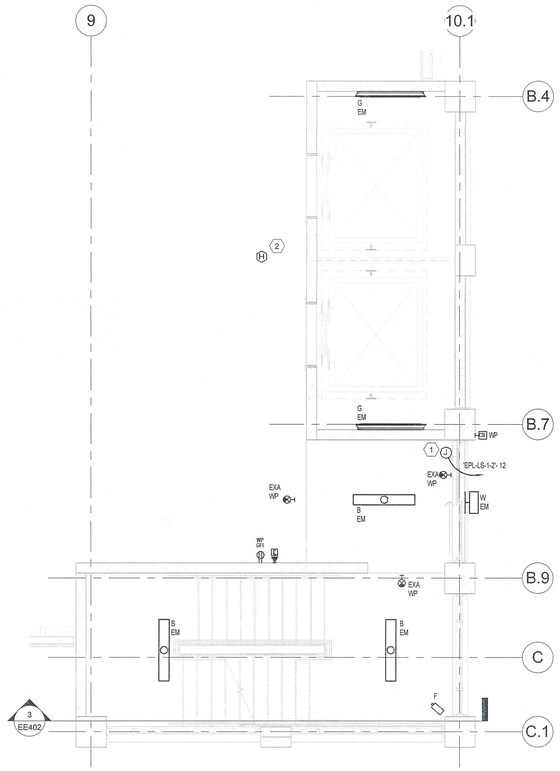
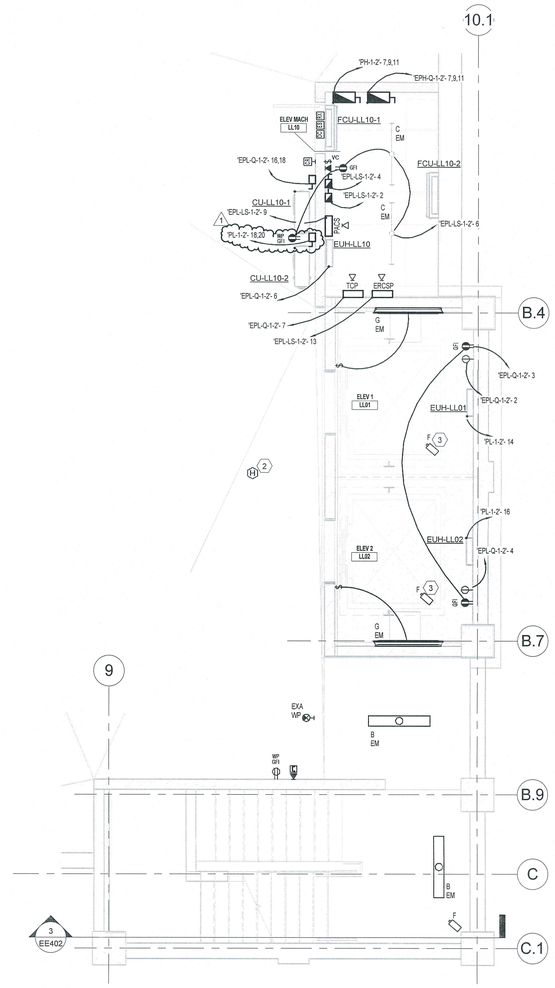


3 EE402 SOUTH STAIR SECTION
1/4" = 1'-0"



2 EE402 SOUTH STAIR AND ELEVATOR LEVEL 1
1/4" = 1'-0"



1 EE402 SOUTH STAIR AND ELEVATOR LEVEL LL
1/4" = 1'-0"

GENERAL NOTES

A UNO, ALL LIGHTING AND RECEPTACLE CIRCUITS SHALL BE 2-12 AWG, 12 AWG EG, 3/4" C.

B ALL SOUTH STAIR RECEPTACLES SHALL BE CIRCUITED TO 'PL-1-2'-11.

C ALL SOUTH STAIR AND ELEVATOR LOBBY LIGHTING SHOWN IN ENLARGEMENT SHALL BE CIRCUITED TO 'EPH-LS-1-2'-12.

D ALL ELEVATOR PIT AND SHAFT LIGHTS SHALL BE CIRCUITED TO 'EPH-LS-1-2'-16.

E ALL SOUTH STAIR EMERGENCY PHONES SHALL BE CIRCUITED TO 'EPL-LS-1-2'-16.

KEYED NOTES

1 PROVIDE CONNECTION AS REQUIRED FOR SLIDING DOOR.

2 PROVIDE COLD-WEATHER HEAT DETECTOR WITHIN 21' OF THE CENTERLINE OF EACH ELEVATOR DOOR. SEE ELEVATOR RECALL DETAIL, EE502. COORDINATE WITH ELEVATOR INSTALLER.

3 PROVIDE CAMERA IN EACH ELEVATOR CAB. ROUTE 4PR THROUGH ELEVATOR CONTROLLER AND TRAVELING CABLE. TRAVELING CABLE CONDUCTORS SHALL BE PROVIDED BY ELEVATOR PROVIDER OR SHALL BE SHIELDED, INDUSTRIAL FOR CONTINUOUS FLEX. COORDINATE WITH ELEVATOR INSTALLER.

Revisions:	Date
1 AMENDMENT 1	29 APR 2016

VA U.S. Department of Veterans Affairs

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BID SET

Drawing Title: ELECTRICAL ENLARGEMENTS	Project Title: PARKING STRUCTURE - LOT 7	A/E Project Number: 14-692	OFFICE OF FACILITIES MANAGEMENT
		Building Number: #152	
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location: CLEMENT J ZABLOCKI VAMC	Drawing Number: EE402	VA Project Number: 695-325
	Date: 1 DEC 2015 / Checked By: JKM / Drawn By: SCB		VA U.S. Department of Veterans Affairs

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PANELBOARD: EPH-LS-1-2

LOCATION: ELECTRICAL ROOM LL09
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MAIN CB
BUS AMPS: 125 AMPS
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: 14 kAIC
SPECIAL:

LOAD DESCRIPTION	NOTE	BKR	POLES	CKT	A kVA	B kVA	C kVA	A kVA	B kVA	C kVA	CKT	POLES	BKR	NOTE	LOAD DESCRIPTION
				1	5.21			0.50			2	1	20 A		LTS LEVEL LL
PANEL 'EPL-LS-1-2' THRU XFMR 'TLS'		90 A	3	3		3.76			0.61		4	1	20 A		LTS LEVEL 1
				5			3.84			0.51	6	1	20 A		LTS LEVEL 2
SPARE		20 A	1	7	0.00			1.01			8	1	20 A		LTS LEVEL 3
SPARE		20 A	1	9		0.00			0.47		10	1	20 A		LTS NORTH STAIR
SPARE		20 A	1	11			0.00			0.66	12	1	20 A		LTS SOUTH STAIR AND LOBBY
SPARE		20 A	1	13	0.00			0.71			14	1	20 A		LTS EQUIPMENT ROOM
SPARE		20 A	1	15		0.00			0.40		16	1	20 A		LTS ELEVATOR SHAFT
SPARE		20 A	1	17			0.00			0.00	18	1	20 A		SPARE
SPARE		20 A	1	19	0.00			0.00			20	1	20 A		SPARE
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38				
SPARE		20 A	1	39		0.00			0.00		40	3	60 A		SPD
SPARE		20 A	1	41			0.00			0.00	42				
		TOTAL LOAD:			7.43 kVA		5.24 kVA			5.01 kVA					
		TOTAL AMPS:			27 A		19 A			18 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
MOTOR/HVAC	0.84 kVA	117.86%	0.99 kVA		
RECEPTACLE (GENERAL)	0.36 kVA	100.00%	0.36 kVA	CONNECTED LOAD:	17.81 kVA
RECEPTACLE (DEDICATED)	9.60 kVA	100.00%	9.60 kVA	ESTIMATED DEMAND:	19.72 kVA
LIGHTING	7.01 kVA	125.00%	8.77 kVA	CONNECTED CURRENT:	21 A
				EST. DEMAND CURRENT:	24 A

NOTES:

PANELBOARD: EPH-Q-1-2

LOCATION: ELECTRICAL ROOM LL09
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 200 A MAIN CB
BUS AMPS: 225 AMPS
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: 14 kAIC
SPECIAL:

LOAD DESCRIPTION	NOTE	BKR	POLES	CKT	A kVA	B kVA	C kVA	A kVA	B kVA	C kVA	CKT	POLES	BKR	NOTE	LOAD DESCRIPTION
				1	4.73			0.80			2				
PANEL 'EPL-Q-1-2' THRU XFMR 'TEQ'		90 A	3	3		4.05			0.80		4	3	20 A		GP-1
				5			3.67			0.80	6				
				7	23.90			0.00			8	1	20 A		SPARE
ELEVATOR 2		125 A	3	9		23.90			0.00		10	1	20 A		SPARE
				11			23.90			0.00	12	1	20 A		SPARE
SPARE		20 A	1	13	0.00			0.00			14	1	20 A		SPARE
SPARE		20 A	1	15		0.00			0.00		16	1	20 A		SPARE
SPARE		20 A	1	17			0.00			0.00	18	1	20 A		SPARE
SPARE		20 A	1	19	0.00			0.00			20	1	20 A		SPARE
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38	1	20 A		SPARE
SPARE		20 A	1	39		0.00			0.00		40	1	20 A		SPARE
SPARE		20 A	1	41			0.00			0.00	42	1	20 A		SPARE
		TOTAL LOAD:			29.42 kVA		28.75 kVA			28.37 kVA					
		TOTAL AMPS:			106 A		104 A			102 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
MOTOR/HVAC	12.63 kVA	105.76%	13.36 kVA		
ELEVATOR	71.70 kVA	100.00%	71.70 kVA	CONNECTED LOAD:	86.70 kVA
RECEPTACLE (GENERAL)	1.44 kVA	100.00%	1.44 kVA	ESTIMATED DEMAND:	87.60 kVA
RECEPTACLE (DEDICATED)	0.24 kVA	100.00%	0.24 kVA	CONNECTED CURRENT:	104 A
ELECTRIC HEAT	0.68 kVA	125.00%	0.86 kVA	EST. DEMAND CURRENT:	105 A

NOTES:

PANELBOARD: PH-1-2

LOCATION: ELECTRICAL ROOM LL09
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 200 A MAIN CB
BUS AMPS: 250 AMPS
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: 14 kAIC
SPECIAL:

LOAD DESCRIPTION	NOTE	BKR	POLES	CKT	A kVA	B kVA	C kVA	A kVA	B kVA	C kVA	CKT	POLES	BKR	NOTE	LOAD DESCRIPTION
				1	6.62				1.45		2	1	20 A		LTS LEVEL LL
PANEL 'PL-1-2' THRU XRMR 'TN'		90 A	3	3		6.09				1.60	4	1	20 A		LTS LEVEL 1
				5			5.79				6	1	20 A		LTS LEVEL 2
				7	23.90			1.01			8	1	20 A		LTS LEVEL 3
ELEVATOR 1		125 A	3	9		23.90			0.17		10	1	20 A		LTS SIGNAGE (THRU CONTACTOR)
				11			23.90			0.00	12	1	20 A		SPARE
SPARE		20 A	1	13	0.00			0.00			14	1	20 A		SPARE
SPARE		20 A	1	15		0.00			0.00		16	1	20 A		SPARE
SPARE		20 A	1	17			0.00			0.00	18	1	20 A		SPARE
SPARE		20 A	1	19	0.00			0.00			20	1	20 A		SPARE
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38				
SPARE		20 A	1	39		0.00			0.00		40	3	60 A		SPD
SPARE		20 A	1	41			0.00			0.00	42				
		TOTAL LOAD:			32.98 kVA		31.76 kVA			31.14 kVA					
		TOTAL AMPS:			119 A		115 A			112 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	0.00 kVA	0.00%	0.00 kVA		
MOTOR/HVAC	12.34 kVA	105.90%	13.06 kVA	CONNECTED LOAD:	96.70 kVA
ELEVATOR	71.70 kVA	100.00%	71.70 kVA	ESTIMATED DEMAND:	99.65 kVA
RECEPTACLE (GENERAL)	3.78 kVA	100.00%	3.78 kVA	CONNECTED CURRENT:	116 A
LIGHTING	6.29 kVA	125.00%	7.86 kVA	EST. DEMAND CURRENT:	120 A
ELECTRIC HEAT	2.59 kVA	125.00%	3.24 kVA		
SPEC	0.00 kVA	0.00%	0.00 kVA		

NOTES:

PANELBOARD: EPL-LS-1-2

LOCATION: ELECTRICAL ROOM LL09
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MAIN CB
BUS AMPS: 100 AMPS
VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 10 kAIC
SPECIAL:

LOAD DESCRIPTION	NOTE	BKR	POLES	CKT	A kVA	B kVA	C kVA	A kVA	B kVA	C kVA	CKT	POLES	BKR	NOTE	LOAD DESCRIPTION
TELECOM RACK		20 A	1	1	1.44			1.00			2	1	20 A		ELEV 1 CAB
TCBB IT ROOM		20 A	1	3		1.44			1.00		4	1	20 A		ELEV 2 CAB
CCTV RACK		20 A	1	5			1.44			0.48	6	1	20 A		LTS AND RECEP ELEV MACH
TCBB SECURITY ROOM		20 A	1	7	1.44			0.12			8	1	20 A		DOOR OPERATOR NORTH STAIR
PACS - ELEVATOR ROOM		20 A	1	9		0.72			0.12		10	1	20 A		DOOR OPERATOR SOUTH STAIR
PACS - SECURITY ROOM		20 A	1	11			0.72			0.60	12	1	20 A		SLIDING DOOR
ERCSP - ELEVATOR ROOM	1	20 A	1	13	0.24			0.48			14	1	20 A		EMERGENCY PHONES NORTH STAIR
SPARE		20 A	1	15		0.00			0.48		16	1	20 A		EMERGENCY PHONES - SOUTH STAIR
SPARE		20 A	1	17			0.00			0.60	18	1	20 A	1	SITE EM. PHONE (NORTH)
SPARE		20 A	1	19	0.00			0.60			20	1	20 A	1	SITE EM. PHONE (SOUTH)
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38	1	20 A		SPARE
SPARE		20 A	1	39		0.00			0.00		40	1	20 A		SPARE
SPARE		20 A	1	41			0.00			0.00	42	1	20 A		SPARE
		TOTAL LOAD:			5.32 kVA		3.76 kVA			3.84 kVA					
		TOTAL AMPS:			44 A		31 A			32 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
MOTOR/HVAC	0.84 kVA	117.86%	0.99 kVA		
RECEPTACLE (GENERAL)	0.36 kVA	100.00%	0.36 kVA	CONNECTED LOAD:	12.92 kVA
RECEPTACLE (DEDICATED)	9.60 kVA	100.00%	9.60 kVA	ESTIMATED DEMAND:	13.60 kVA
LIGHTING	2.12 kVA	125.00%	2.65 kVA	CONNECTED CURRENT:	36 A
				EST. DEMAND CURRENT:	38 A

NOTES:
1. BREAKER SHALL BE LOCKABLE ACCORDING TO 2014 NEC 110.25.

PANELBOARD: EPL-Q-1-2

LOCATION: ELECTRICAL ROOM LL09
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MAIN CB
BUS AMPS: 100 AMPS
VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 10 kAIC
SPECIAL:

LOAD DESCRIPTION	NOTE	BKR	POLES	CKT	A kVA	B kVA	C kVA	A kVA	B kVA	C kVA	CKT	POLES	BKR	NOTE	LOAD DESCRIPTION
REC EQUIPMENT ROOMS		20 A	1	1	0.90			0.96			2		20 A		SUMP PUMP ELEV 1
REC ELEVATOR PIT		20 A	1	3		0.36			0.96		4	1	20 A		SUMP PUMP ELEV 2
REC HOT BOX, GRINDER PUMP		20 A	1	5			0.36			0.50	6	1	20 A		EUH-LL10
TCP ELEV		20 A	1	7	0.24			1.35			8	2	20 A		CU-LL07
SPARE		20 A	1	9		0.00			1.35		10				
SPARE		20 A	1	11			0.00			1.35	12	2	20 A		CU-LL08
SPARE		20 A	1	13	0.00			1.35			14				
SPARE		20 A	1	15		0.00			1.46		16	2	20 A		CU-LL10-1
SPARE		20 A	1	17			0.00			1.46	18				
SPARE		20 A	1	19	0.00			0.00			20	1	20 A		SPARE
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38	1	20 A		SPARE
SPARE		20 A	1	39		0.00			0.00		40	1	20 A		SPARE
SPARE		20 A	1	41			0.00			0.00	42	1	20 A		SPARE
		TOTAL LOAD:			4.80 kVA		4.13 kVA			3.67 kVA					
		TOTAL AMPS:			41 A		35 A			31 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
MOTOR/HVAC	10.24 kVA	107.11%	10.97 kVA		
RECEPTACLE (GENERAL)	1.44 kVA	100.00%	1.44 kVA	CONNECTED LOAD:	12.60 kVA
RECEPTACLE (DEDICATED)	0.24 kVA	100.00%	0.24 kVA	ESTIMATED DEMAND:	13.50 kVA
ELECTRIC HEAT	0.68 kVA	125.00%	0.86 kVA	CONNECTED CURRENT:	35 A
				EST. DEMAND CURRENT:	37 A

NOTES:

PANELBOARD: PL-1-2

LOCATION: ELECTRICAL ROOM LL09
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MAIN CB
BUS AMPS: 100 AMPS
VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 10 kAIC
SPECIAL:

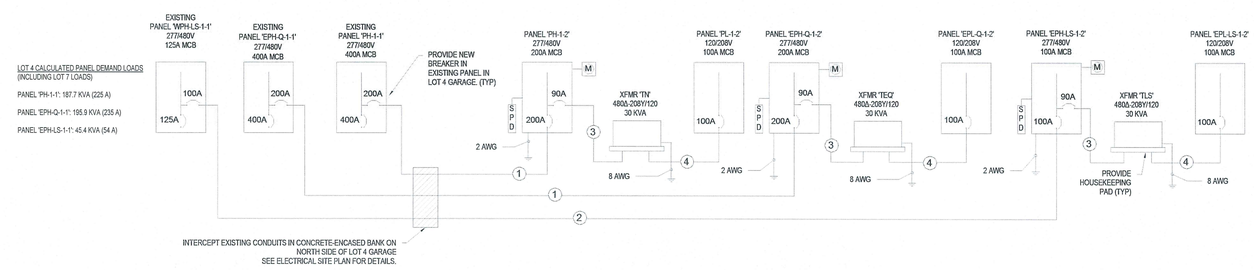
LOAD DESCRIPTION	NOTE	BKR	POLES	CKT	A kVA	B kVA	C kVA	A kVA	B kVA	C kVA	CKT	POLES	BKR	NOTE	LOAD DESCRIPTION
REC ELEC ROOM		20 A	1	1	0.54			1.35			2	2	30 A	1	CU-LL09
REC IT ROOM		20 A	1	3		0.54			1.35		4				
REC SECURITY ROOM		20 A	1	5			0.54			0.50	6	1	20 A		EUH-LL07
REC STORAGE ROOM		20 A	1	7	0.72			0.50			8	1	20 A		EUH-LL08
REC NORTH STAIR		20 A	1	9		0.72			0.50		10	1	20 A		EUH-LL09
REC SOUTH STAIR		20 A	1	11			0.72			0.12	12	1	20 A		EF-LL08
LIGHTING CONTACTOR		20 A	1	13	0.01			0.54			14	1	20 A		EUH-LL01
AUTOGATE ENTRY 1	1	20 A	1	15		1.68			0.54		16	1	20 A		EUH-LL02
AUTOGATE ENTRY 2	1	20 A	1	17			1.68			1.68	18	2	20 A		CU-LL10-2
"FULL" SIGN	1	20 A	1	19	0.60			1.68			20				
AUTOGATE EXIT 1	1	20 A	1	21		1.08			0.00		22	1	20 A		SPARE
AUTOGATE EXIT 2	1	20 A	1	23			1.08			0.00	24	1	20 A		SPARE
AUTOGATE EXIT 3	1	20 A	1	25	1.08			0.00			26	1	20 A		SPARE
TCP IT ROOM		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38	1	20 A		SPARE
SPARE		20 A	1	39		0.00			0.00		40	1	20 A		SPARE
SPARE		20 A	1	41			0.00			0.00	42	1	20 A		SPARE
		TOTAL LOAD:			6.80 kVA		6.42 kVA			6.10 kVA					
		TOTAL AMPS:			57 A		54 A			51 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	0.00 kVA	0.00%	0.00 kVA		
MOTOR/HVAC	12.34 kVA	105.90%	13.06 kVA	CONNECTED LOAD:	19.32 kVA
RECEPTACLE (GENERAL)	3.78 kVA	100.00%	3.78 kVA	ESTIMATED DEMAND:	20.85 kVA
LIGHTING	0.61 kVA	125.00%	0.77 kVA	CONNECTED CURRENT:	54 A
ELECTRIC HEAT	2.59 kVA	125.00%	3.24 kVA	EST. DEMAND CURRENT:	58 A
SPEC	0.00 kVA	0.00%	0.00 kVA		

NOTES:
1. BREAKER SHALL BE LOCKABLE PER 2014 NEC 110.25.

EQUIPMENT CONDUCTOR SCHEDULE

TAG	DESCRIPTION	VOLTS	PHASE	LOAD	MOCP	CONDUCTORS	NEUTRAL	GROUND	CONDUIT	DISCONNECT TYPE	NOTES
--	ELEVATOR 1	480	3	75 kVA	125 A	3-1/0 AWG	--	6 AWG	2"	NEMA 1 FUSIBLE	FUSE PER ELEVATOR NAMEPLATE
--	ELEVATOR 1 CAB	120	1	1 kVA	20 A	1-12 AWG	12 AWG	12 AWG	3/4"	NEMA 1 FUSIBLE	
--	ELEVATOR 2	480	3	75 kVA	125A	3-1/0 AWG	--	6 AWG	2"	NEMA 1 FUSIBLE	FUSE PER ELEVATOR NAMEPLATE
--	ELEVATOR 2 CAB	120	1	1 kVA	20 A	1-12 AWG	12 AWG	12 AWG	3/4"	NEMA 1 FUSIBLE	
--	SLIDING DOOR	120	1	600 W	20 A	1-10 AWG	10 AWG	10 AWG	3/4"	MRS	WIRE INCREASED FOR VOLTAGE DROP
CU-LL07	CONDENSING UNIT	208	1	13 A	20 A	2-12 AWG	--	12 AWG	3/4"	NEMA 3R UNFUSED	
CU-LL08	CONDENSING UNIT	208	1	13 A	20 A	2-12 AWG	--	12 AWG	3/4"	NEMA 3R UNFUSED	
CU-LL09	CONDENSING UNIT	208	1	13 A	20 A	2-12 AWG	--	12 AWG	3/4"	NEMA 3R UNFUSED	
1 CU-LL10-1	CONDENSING UNIT	208	1	14 A	30 A	2-8 AWG	--	8 AWG	3/4"	NEMA 3R UNFUSED	
CU-LL10-2	CONDENSING UNIT	208	1	14 A	30 A	2-8 AWG	--	8 AWG	3/4"	NEMA 3R UNFUSED	
EF-LL08	EXHAUST FAN	120	1	38 W	20 A	1-12 AWG	12 AWG	12 AWG	3/4	MRS	
EUH (MULTIPLE)	ELECTRIC UNIT HEATER	120	1	4.2 A	20 A	1-12 AWG	12 AWG	12 AWG	3/4"	MRS	
FCU (MULTIPLE)	FAN COIL UNIT	208	1	--	--	2-12 AWG	--	12 AWG	3/4"	--	POWER FROM CU
GP-1	GRINDER PUMP	480	3	1.5 HP	15 A	3-12 AWG	--	12 AWG	3/4"	NEMA 3R UNFUSED	
SP (MULTIPLE)	SUMP PUMP (ELEVATOR PIT)	120	1	4/10 HP	20 A	1-8 AWG	8 AWG	8 AWG	3/4"	SIMPLEX RECEPTACLE	WIRE INCREASED FOR VOLTAGE DROP



ELECTRICAL EQUIPMENT FEEDER SCHEDULE

1	200A	4-3/0 AWG, 6 AWG EG, 3" C
2	100A	4-2 AWG, 6 AWG EG, 1-1/2" C *
3	90A	3-4 AWG, 8 AWG EG, 1" C
4	100A	4-3 AWG, 8 AWG SSBJ, 1-1/2" C

ALL CONDUCTORS SHALL BE COPPER (CU) UNLESS NOTED OTHERWISE.
WIRE SIZE TO METER AND SPD SHALL BE 6 AWG MINIMUM.
* WIRE INCREASED FOR VOLTAGE DROP.

Revisions:	Date
1 AMENDMENT 1	29 APR 2016

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BID SET

Drawing Title: SINGLE-LINE, PANEL SCHEDULES, EQUIPMENT CONDUCTOR SCHEDULE	Project Title: PARKING STRUCTURE - LOT 7	A/E Project Number: 14-692	OFFICE OF FACILITIES MANAGEMENT
		Building Number: #152	
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location: CLEMENT J ZABLOCKI VAMC	Drawing Number: EE601	VA Project Number: 695-325
	Date: 1 DEC 2015 / Checked By: JKM / Drawn By: SCB		U.S. Department of Veterans Affairs

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