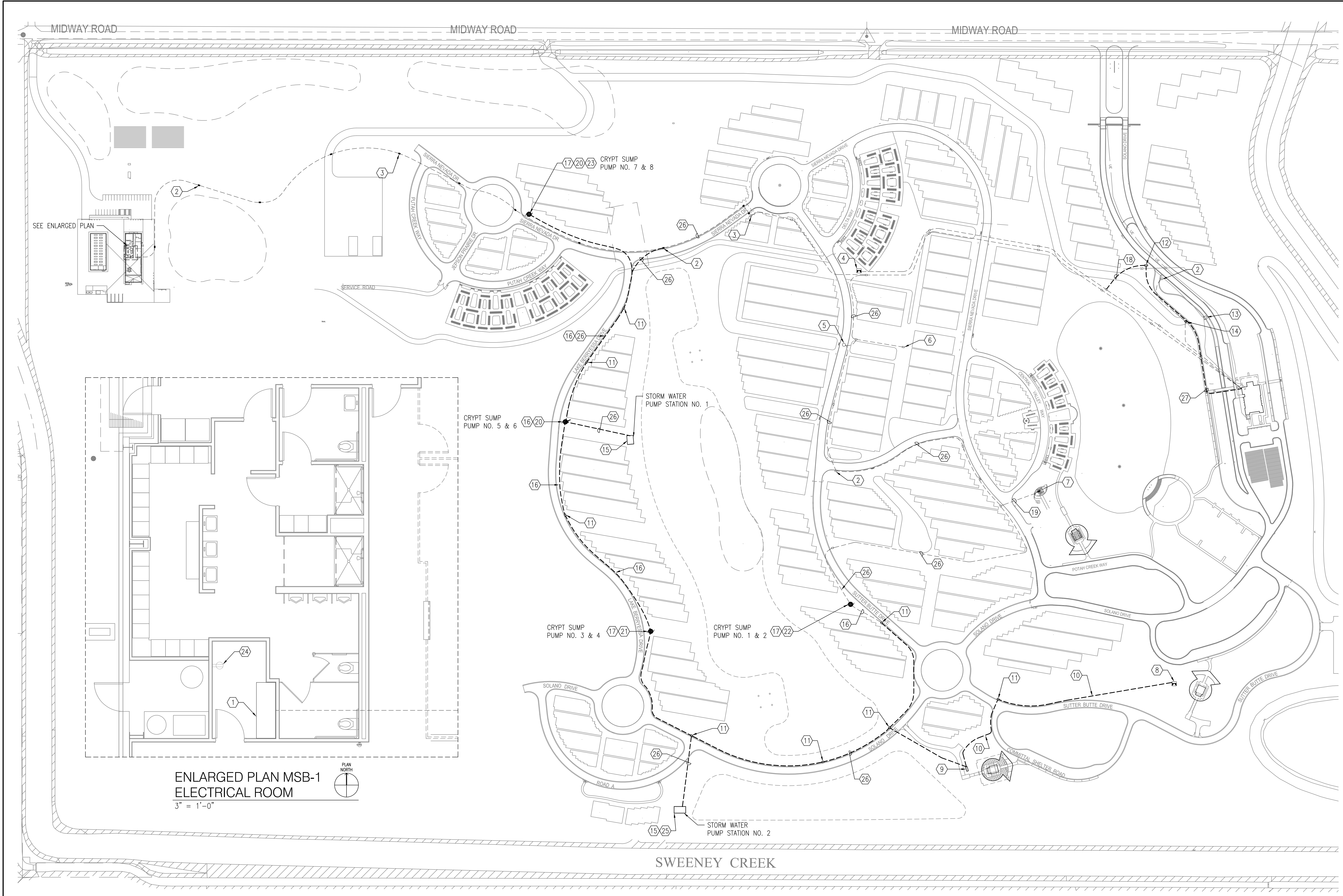
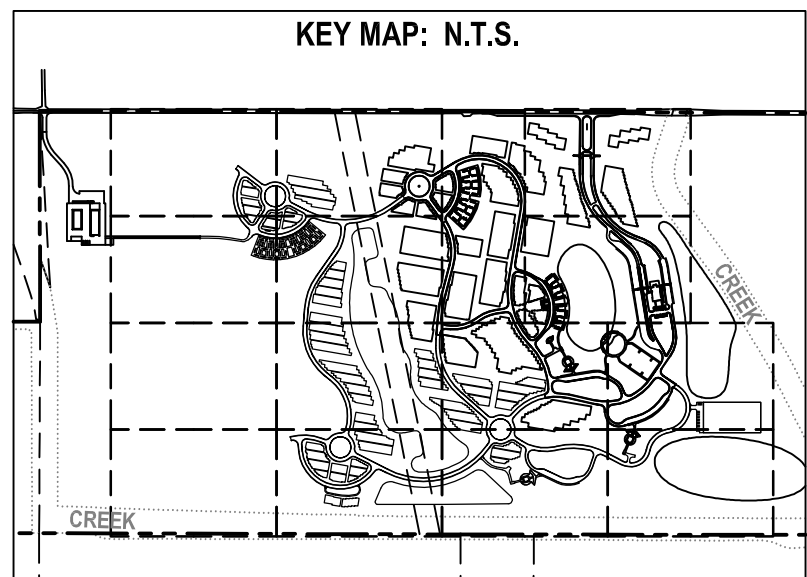


three inches = one foot  
one and one-half inch = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot  
one-sixteenth inch = one foot



- KEYNOTES:**
- 1 EXISTING MAINTENANCE BUILDING MAIN SERVICE SWITCHBOARD AND METER, "MSB-1".
  - 2 EXISTING PULLBOX, TYP.
  - 3 EXISTING UNDERGROUND DUCTBANK SHALL BE REPLACED NORTH OF SIERRA NEVADA DR. DUCTBANK CONTAINS 4x 4" C AND 1x 12F CABLE. CABLE SHALL BE SPLICED AND EXTENDED IN VAULTS. EXTENT OF REPLACEMENT SHALL BE BETWEEN (2)KEY NOTES 3.
  - 4 EXISTING PAD MOUNTED 480V-208/120V TRANSFORMER AND DISTRIBUTION PANELBOARD, "PP-1".
  - 5 EXISTING MANHOLE PUMP STATION.
  - 6 EXISTING IRRIGATION CONTROLLER.
  - 7 EXISTING IRRIGATION PUMP STATION SWITCHBOARD, "MSB-3".
  - 8 EXISTING PAD MOUNTED 480V-208/120V TRANSFORMER AND DISTRIBUTION PANELBOARD, "PP-3".
  - 9 NEW POWER CENTER PP-4 TO BE LOCATED AT NEW COMMITTEE SHELTER SEE E-102
  - 10 UNDERGROUND DUCTBANK FROM EXISTING DISTRIBUTION PANELBOARD "PP-3" TO NEW DISTRIBUTION PANELBOARD, 2"C - 3#2, #8G.
  - 11 NEW PULLBOX. 24" X 36" X 18"
  - 12 NEW CIRCUIT TO DIGITAL READER BOARD.
  - 13 EXISTING 12KV ELECTRICAL JUNCTION/SWITCH.
  - 14 RELOCATE EXISTING PULLBOX USED FOR ROUTING CABLES FOR EXISTING FLAGPOLE LIGHT FIXTURE CIRCUIT OUT OF ROADWAY.
  - 15 NEW STORMWATER PUMP STATION, SEE E-501.
  - 16 UNDERGROUND DUCTBANK FROM CRYPT SUMP PUMPS TO NEW POWER CENTER.
  - 17 NEW CRYPT SUMP PUMP. LOCATE A NEW 18"x12" PULLBOX ADJACENT TO SUMP PUMP CONTROL PANEL. ROUTE 2"C CONDUIT FROM SUMP PUMP CONTROL PANEL THROUGH PULLBOX TO NEW DISTRIBUTION PANEL VIA DUCTBANK. PROVIDE A 20A CIRCUIT IN NEW POWER CENTER FOR EACH SUMP WELL (4 TOTAL).
  - 18 1"C - 2#10, 1#12G ROUTE WIRING BACK TO ADMIN BLDG. PANEL IN EXISTING CONDUIT. PNL A2
  - 19 2"C - 6#1, 2#1G FROM PUMP STATION TO MSB-3
  - 20 1 1/4"C - 2#1, 1#1G
  - 21 1 1/4"C - 2#2, 1#2G
  - 22 1 1/4"C - 2#4, 1#4G
  - 23 CONTROLLER PROVIDE 20A CKT BACK TO PP-4. 1"C - 2#8, #10G
  - 24 EXISTING TELCOM DEDICATED RECEPTACLE SHALL BE USED FOR GPS CONTROL MASTER STATION. MOUNT GPS MASTER STATION EQUIP TO TELECOM WALL AS NEEDED.
  - 25 CONTROLLER PROVIDE 20A CKT BACK TO PP-4. 1"C - 2#8, #10G
  - 26 2"C - 3#1, #2G FROM PUMP STATION TO MSB-3
  - 27 1"C - 1 ETHERNET CABLE. ROUTE BACK TO ADMIN BLDG. ETHERNET SWITCH.



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**ARCHITECT/ENGINEER OF RECORD**

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Michael Brandvold, Project Manager

**ANDERSON ENGINEERING**  
ENGINEERING • ARCHITECTURE • LAND SURVEYING  
ENVIRONMENTAL SERVICES • LANDSCAPE ARCHITECTURE

**STAMP**

REGISTERED PROFESSIONAL ENGINEER  
No. E 14788  
Exp. 6-30-19  
Daniel R. Kelly  
ELECTRICAL  
STATE OF CALIFORNIA  
June 27, 2018

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

**Drawing Title**  
ELECTRICAL SITE PLAN

**Approved:** Project Director

**Phase**  
BID DOCUMENTS

**Project Title**  
Sacramento Valley National Cemetery  
Phase 2 Development

**Location**  
5810 Midway Rd, Dixon, CA 95620

**Issue Date**  
JUNE 27, 2018

**Checked**  
DJG

**Drawn**  
RJG

**Project Number**  
921CM2007

**Building Number**  
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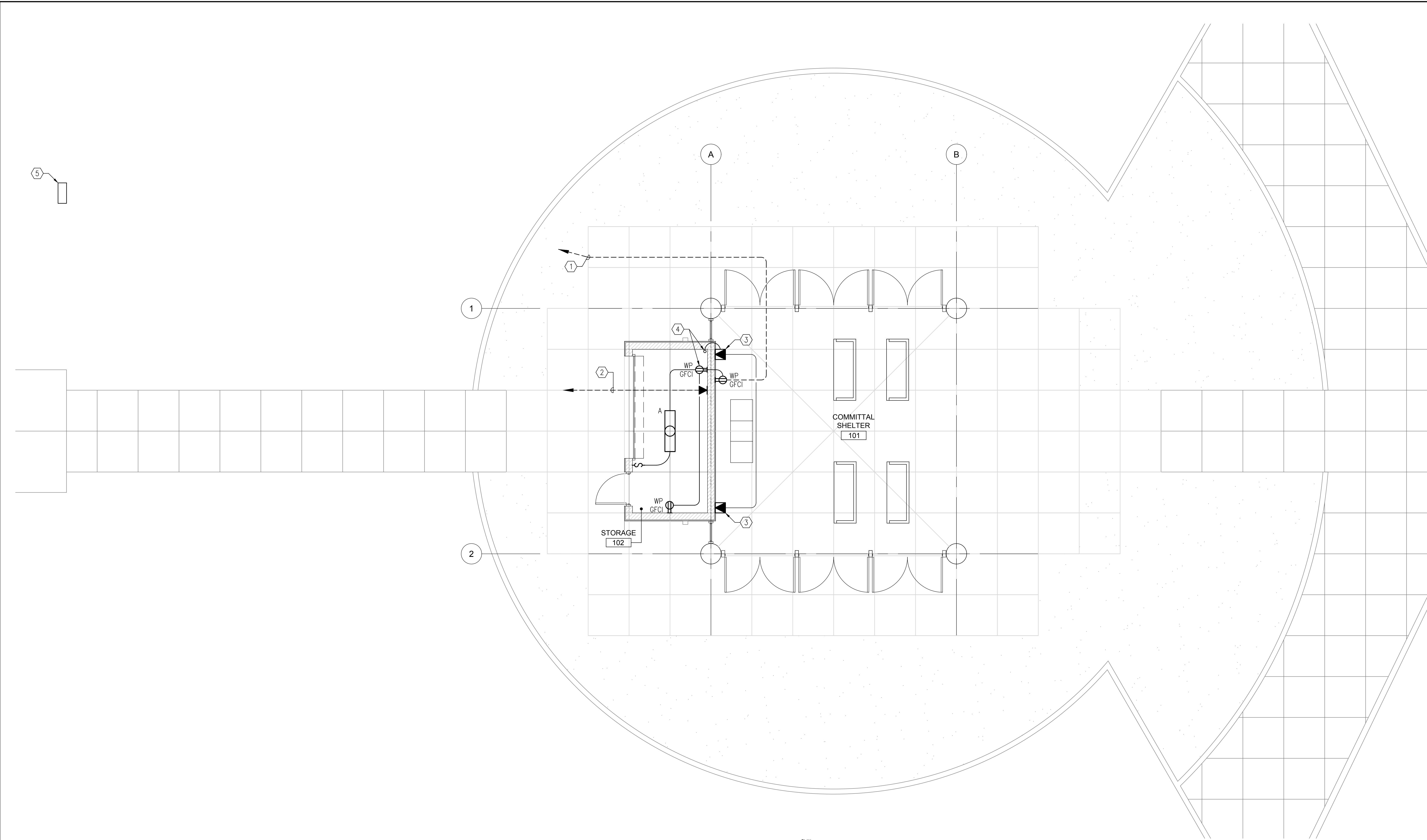
**Drawing Number**  
E-101

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0  
6"  
1  
0  
6"  
2  
0  
6"  
2  
0  
6"  
4  
0  
6"  
4  
0  
6"  
8  
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4  
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16  
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8  
0

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A  
B  
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D  
E  
F

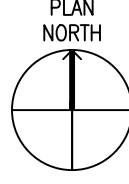


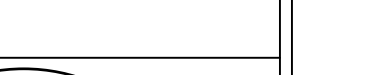

KEYNOTES:

- ① 2-20AMP CIRCUITS TO DISTRIBUTION PANEL.
- ② 1"Ø WITH TELECOM CONDUCTORS ROUTED TO TELECOM PULLBOX.
- ③ 6 1/2" Ø DIAMETER FLUSH WALL MOUNTED WEATHER RESISTANT SPEAKER WITH ALUMINUM GRILLE, STAINLESS STEEL HARDWARE AND METALLIC BACKBOX AND MOUNTING HARDWARE. SEE ARCHITECTURAL FOR MOUNTING HEIGHT.
- ④ LOCATE AT SOUND SYSTEM SHELF.
- ⑤ NEW POWER CENTER. 100A, 3PH, 480/208-120.

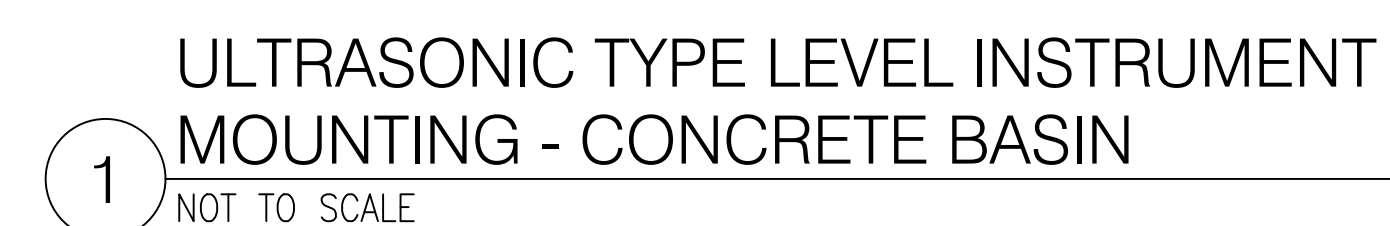
ELECTRICAL PLAN

1/4" = 1'-0"



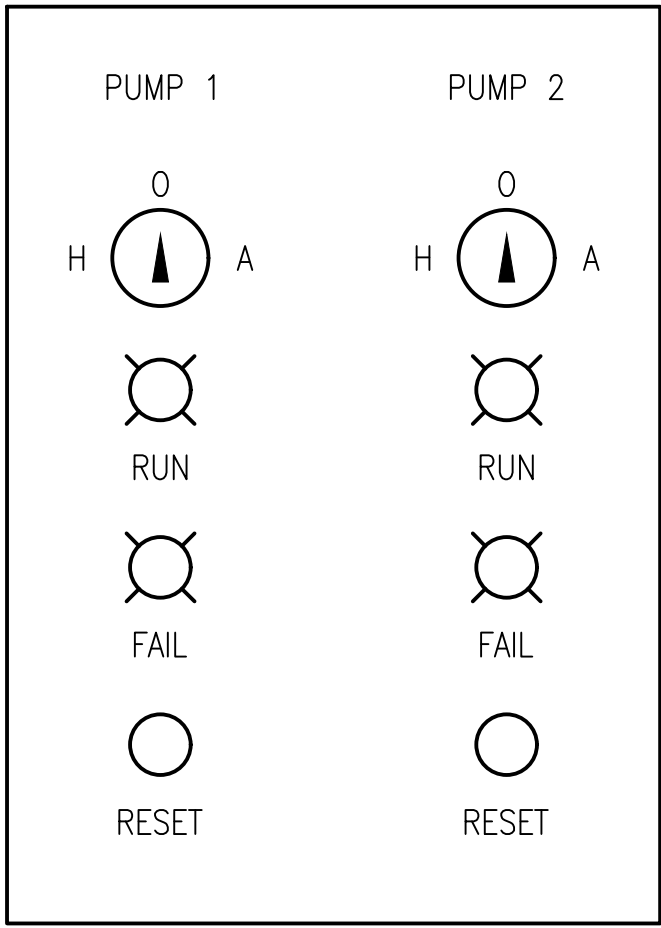
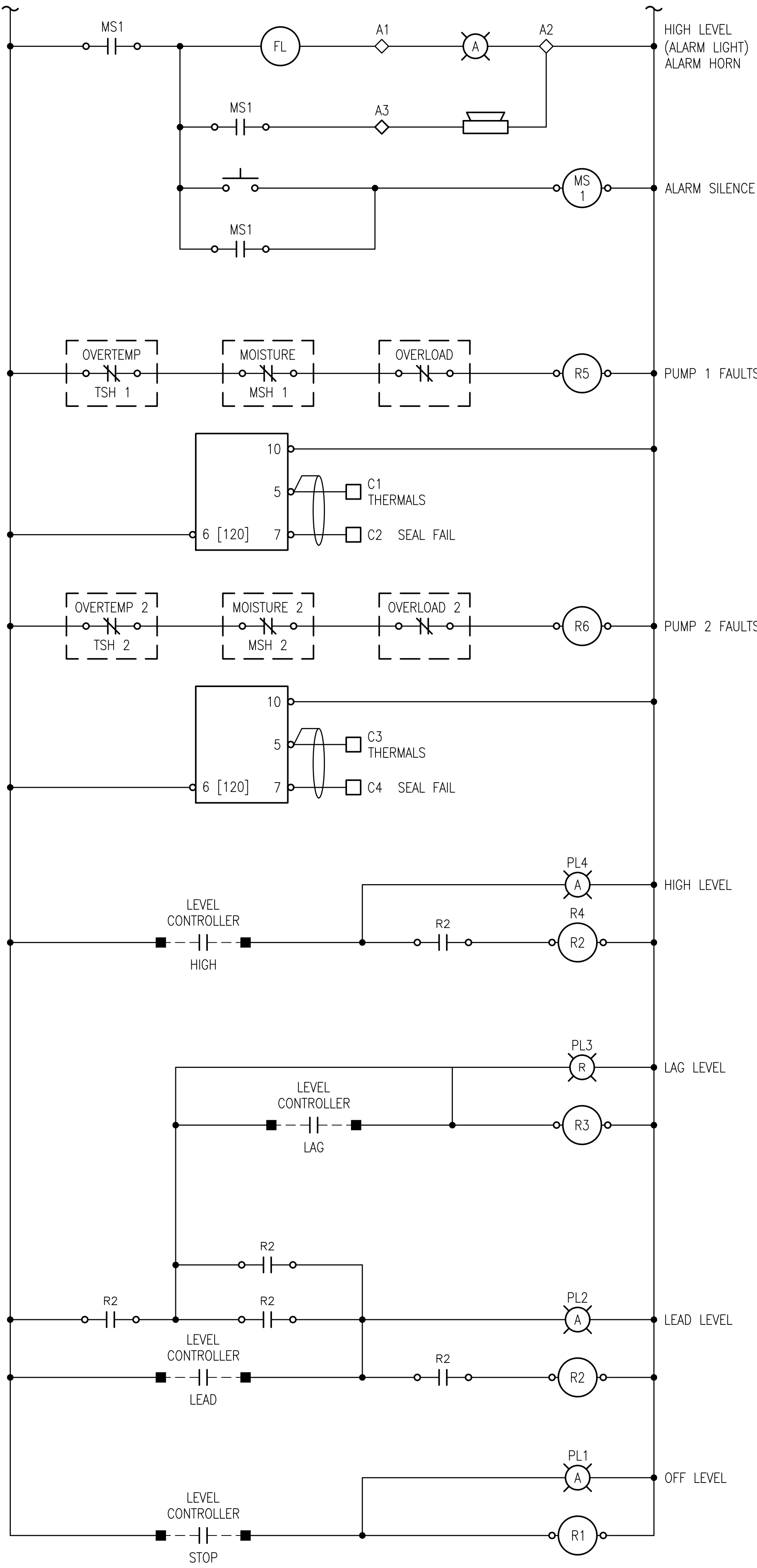
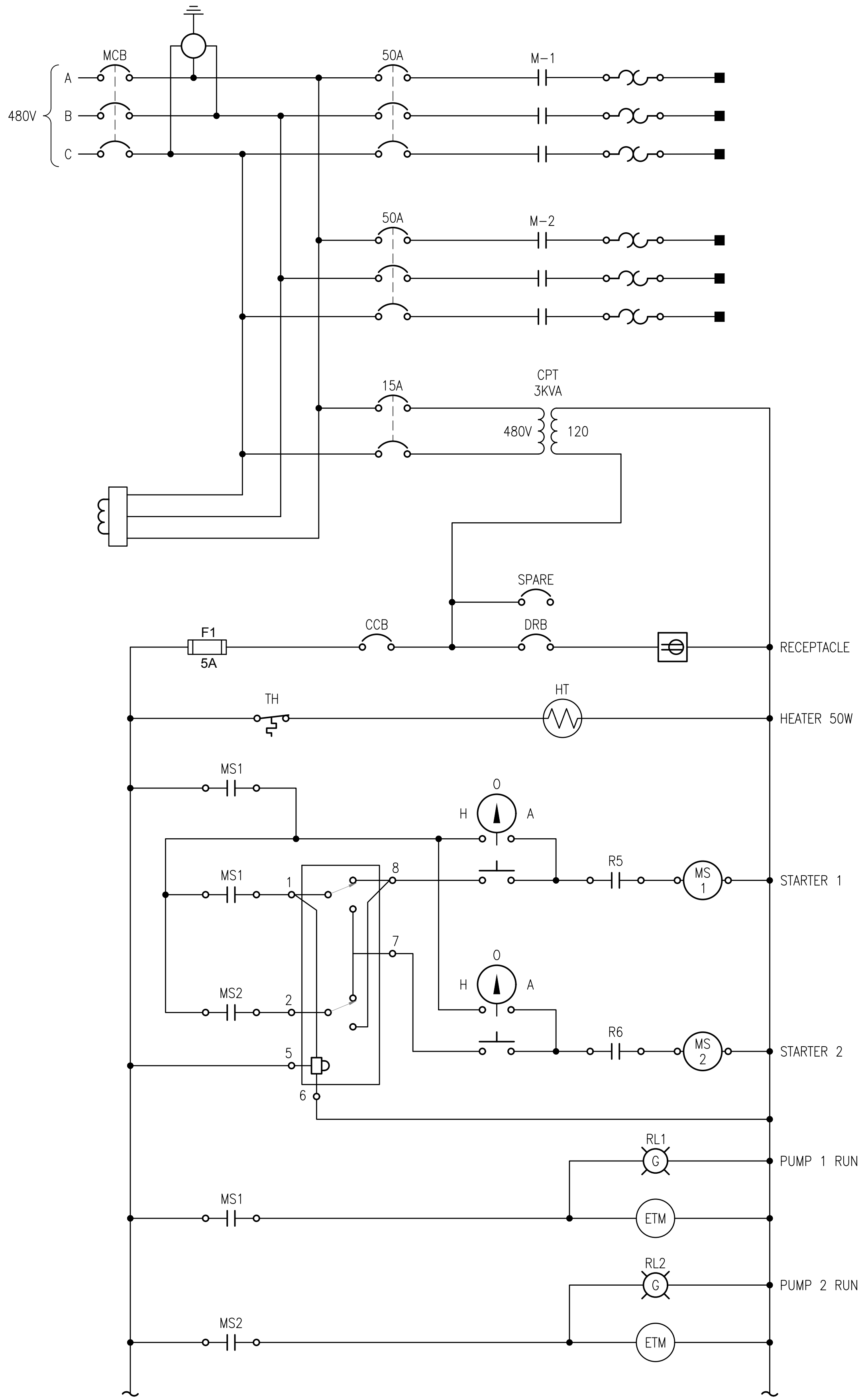
		<b>CONSULTANTS</b>				<b>ARCHITECT/ENGINEER OF RECORD</b>				<b>STAMP</b>		<b>Office of Construction and Facilities Management</b>		<b>Drawing Title</b>		<b>Phase</b>		<b>Project Title</b>		<b>Project Number</b>											
		Structural Engineering, Electrical Engineering: HDR Engineering, Inc. 2365 Iron Point Rd. #300 Folsom, CA 95630 (916) 817-4924 Duane Hodgins				Irrigation: Aqua Engineering, Inc. 375 Horseshoe Rd., Bldg. 2-202 Fort Collins, CO 80525 (970) 372-6104 Robert Beccard				Cost Estimating: CPMI, Inc. 3265 Northwood Cir., Ste. 170 Eagan, MN 55121 (652) 854-3663 Bryan Bertrand				Geotechnical Engineering: Terracon Consultants, Inc. 50 Goldenland Ct., Ste. 100 Sacramento, CA 95834 (916) 923-4690 Robert Holmer				Project Management, Architecture, Landscape Architecture, Cemetery Planning, Civil Engineering, Land Survey: Anderson Engineering of MN, LLC 13605 1st Ave. N., Ste. 100 Plymouth, MN 55441 (763) 412-4000 Michael Brandvold, Project Manager				<b>VA</b>   U.S. Department of Veterans Affairs		<b>ELECTRICAL PLAN - COMMITTAL SHELTER</b>		<b>BID DOCUMENTS</b>		Sacramento Valley National Cemetery Phase 2 Development		921CM2007	
																															
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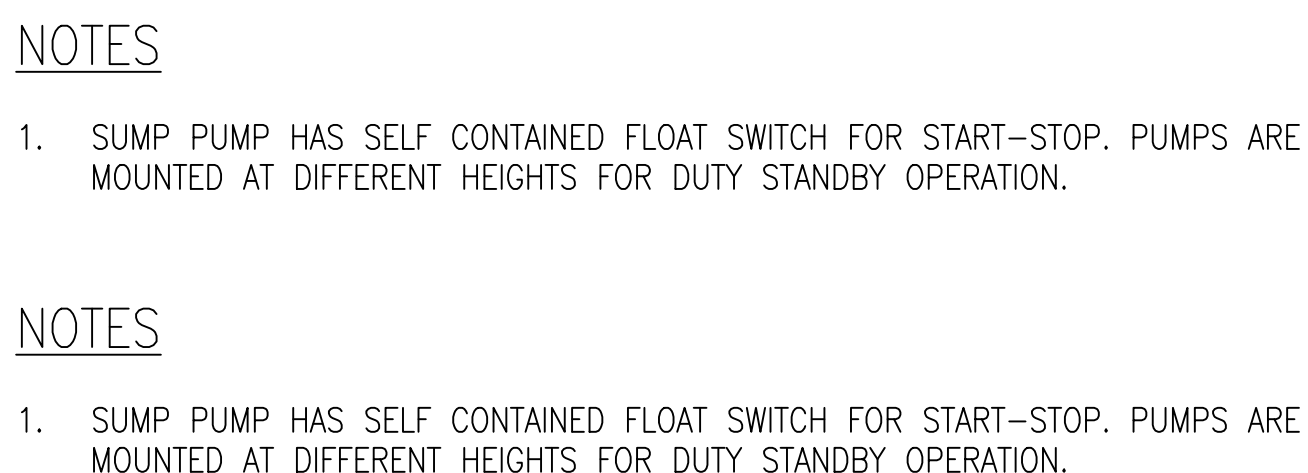
TYPICAL STORMWATER PUMP STATION CONTROL DIAGRAM

<div>CONSULTANTS</div> <div><div>Structural Engineering, Electrical Engineering: HDR Engineering, Inc. 2365 Iron Point Rd., #300 Folsom, CA 95630 (916) 817-4924 Duane Hodgins</div><div>Irrigation: Aqua Engineering, Inc. 375 Horsetooth Rd., Bldg. 2-202 Fort Collins, CO 80525 (970) 372-6104 Robert Beccard</div><div>Cost Estimating: CPMI, Inc. 3265 Northwood Cir., Ste. 170 Eagan, MN 55121 (652) 854-3663 Bryan Bertrand</div><div>Geotechnical Engineering: Terracon Consultants, Inc. 50 Goldenland Ct., Ste. 100 Sacramento, CA 95834 (916) 928-4690 Robert Holmer</div></div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div>Project Management, Architecture, Landscape Architecture, Cemetery Planning, Civil Engineering, Land Survey: Anderson Engineering of MN, LLC 13605 1st Ave. N., Ste. 100 Plymouth, MN 55441 (763) 412-4000 Michael Brandvold, Project Manager</div><div><div>ANDERSON ENGINEERING</div><div>ENGINEERING • ARCHITECTURE • LAND SURVEYING ENVIRONMENTAL SERVICES • LANDSCAPE ARCHITECTURE</div></div></div>		<div>STAMP</div> <div><div>REGISTERED PROFESSIONAL ENGINEER No. E 14788 Exp. 6/30/19 Daniel James Scott ELECTRICAL STATE OF CALIFORNIA June 27, 2018</div><div>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</div></div>		<div>Drawing Title</div> <div>ELECTRICAL DETAIL - CONTROL DIAGRAM.</div> <div>Approved: Project Director</div>		<div>Phase</div> <div>BID DOCUMENTS</div>		<div>Project Title</div> <div>Sacramento Valley National Cemetery Phase 2 Development</div>		<div>Project Number</div> <div>921CM2007</div>	
<div>Revisions:</div>		<div>Date:</div>		<div>Location</div> <div>5810 Midway Rd, Dixon, CA 95620</div>		<div>Issue Date</div> <div>JUNE 27, 2018</div>		<div>Checked</div> <div>DJG</div>		<div>Drawn</div> <div>MY</div>		<div>Drawing Number</div> <div>E-502 260 of 262</div>	



TYPICAL PANEL





### TYPICAL CRYPT SUMP ALARM WIRING DIAGRAM

PANELBOARD NO:		COMMITTAL SHELTER PNL													
VOLTAGE:		208-120		BUS RATING (A):		100		ENCLOSURE:		NEMA 3R					
PHASE:		3		MAIN OC DEVICE:		100/3		MOUNTING:		SURFACE					
WIRE:		4-GND		INTERRUPTING RATING (KA):		22		LOCATION:		NEW COMMITTAL SHELTER					
200% NEUTRAL:		YES		SERVICE ENTRANCE:		BOTTOM									

CKT NO.	DESCRIPTION	CONNECTED LOAD (VA)						OCP		CONNECTED LOAD (VA)						DESCRIPTION	CKT NO.
		LTS	REC	MECH	MTR	AMPS	P	AMPS	P	LTS	REC	MECH	MTR				
1	CRYPT SUMP PMP 1 & 2				1,440	20	2	A	20	2				1,440	CRYPT SUMP PMP 5 & 6	2	
3					1,440			B						1,440		4	
5	CRYPT SUMP PMP 3 & 4				1,440	20	2	A	20	2				1,440	CRYPT SUMP PMP 7 & 8	6	
7					1,440			B						1,440		8	
9	LIGHTS	60				20	1	A	20	1			540		RECEPTACLES	10	
11	IRRIGATION CONTROLLERS			800		20		B						SPACE		12	

LOAD SUMMARY											
	LTS	REC	MECH	MTR	SPARE	TOTAL			PHASE BALANCE		
CONNECTED LOAD (KVA)	0.1	0.5	0.8	11.5	---	12.9	240	LINE-TO-LINE VOLTS	PHASE A (KVA)		
DEMAND FACTOR	1.25	NEC	1.00	1.00	25%	---	54	CONNECTED AMPS	PHASE B (KVA)		
DESIGN LOAD (KVA)	0.1	0.5	0.8	11.5	3.2	16.2	67	DESIGN AMPS			

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