



State of Utah

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GARY R. HERBERT  
Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD  
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON  
Director

## ADDENDUM #1

Date: July 1, 2008

To: Contractors

From: Vic Middleton, Project Manager, DFCM

Reference: Sand Hollow State Park OHV Campground  
Division of Parks & Recreation - Hurricane, Utah  
DFCM Project No. 07265510

Subject: **Addendum No. 1**

Pages	Addendum	1	page
	<u>Engineers Addendum</u>	<u>6</u>	<u>pages</u>
	Total	7	pages

**Note:** *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

1.1 **SCHEDULE CHANGES** – There are no changes to the project schedule.

1.2 **GENERAL ITEMS** – Johansen & Tuttle Engineering

The electrical drawings have been added to the construction drawings.

Find enclosed the following drawings:

1. Sheet 1A – revised Index Sheet
2. Sheet E0 – Symbol Schedule, Sheet Index
3. Sheet E-1 – Panel Schedule
4. Sheet E-2 – One Line Diagram
5. Sheet E-3 - Details
6. Sheet E-4 – Electrical Site Plan

**Utah!**  
Where ideas connect

INDEX TO SHEETS	
SHEETS	DESCRIPTION
1	TITLE SHEET
1A	INDEX TO SHEETS AND SUMMARY OF ITEMS
2	TYPICAL SECTIONS MAIN ROAD
3	TYPICAL SECTIONS LOOP ROAD, SIDE ROAD AND CAMPER PAD.
4	CAMPER PAD DETAILS
5	DETAILS
6	PLAN VIEW OVERALL
7	PLAN VIEW NORTHWEST AREA
8	PLAN VIEW NORTHEAST AREA
9	PLAN VIEW SOUTHEAST AREA
10	PLAN VIEW SOUTHWEST AREA
11	PROFILE MAIN ROAD
12	PROFILE SIDE ROAD
13	PROFILE LOOP ROAD
E-0	SYMBOL SCHEDULE, SHEET INDEX
E-1	PANEL SCHEDULE
E-2	ONE LINE DIAGRAM
E-3	DETAILS
E-4	ELECTRICAL SITE PLAN

SUMMARY OF ITEMS			
ITEM	SPEC. SECTION	DESCRIPTION	UNIT QUANTITY USE
1	2	CLEARING AND GRUBBING	LUMP 1
2	8	MOBILIZATION	LUMP 1
3	10	HOT MIX ASPHALT, (AC-30) 1/2-INCH MAX (ALTERNATIVE ADDITIVE)	SQ. FT. 26000
4	21	MOTOR GRADER	HOUR 120
5	21	COMPACTOR	HOUR 120
6	23	UNTREATED BASE COURSE (1-INCH MAX.)	CU. Y.D. 6500
7	23	GRANULAR BARROW	CU. Y.D. 13500
8	32	24-INCH CONCRETE CURB AND GUTTER	LN. FT. 210
9	32	5-FT SIDEWALK	LN. FT. 131
10	32	PEDESTRIAN ACCESS	EACH 1
11	47	2-INCH DIA. PE PIPE	LN. FT. 440
12	47	1-INCH DIA. PE PIPE	LN. FT. 370
13	47	6-FOOT FROST FREE HYDRANT	EACH 8
14	49	SEWER CONNECTION	EACH 1
15	51	24-INCH CSP CULVERT (POLYMERIC COATING)	LN. FT. 150
16	51	12-INCH CSP CULVERT (POLYMERIC COATING)	LN. FT. 80
17	51	METAL END SECTION (24-INCH) (POLYMERIC COATING)	EACH 4
18	51	METAL END SECTION (12-INCH) (POLYMERIC COATING)	EACH 2
17	93	PAVEMENT MARKING PAINT	LUMP 1
18	94	TRAFFIC SIGN 30" X 30", TYPE A-2, METAL POST P2	EACH 1
19	16000	ELECTRICAL	LUMP 1

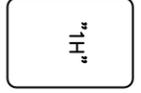
THIS DRAWING IS TO BE USED FOR THIS PROJECT AND THIS PROJECT ONLY UNLESS AUTHORIZED BY THE PROJECT ENGINEER AT JOHANSEN & TUTTLE ENGINEERS INC.				DESIGNED	HRT	4-08	CHECKED	CEJ	4-08
				DRAWN	JNT	4-08	CHECKED	CEJ	4-08
				SURVEYED	BHT	4-08	CHECKED	LMS	4-08
1	CHANGE INDEX ADDED ELECTRICAL DWG.	DMF	27-06-08	R.O.W.	LMS	4-08	CHECKED	CEJ	4-08
REV.	DESCRIPTION	BY.	DATE						

**Johansen & Tuttle ENGINEERING INC.**  
 BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523  
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STATE OF UTAH DFCM  
 SAND HOLLOW STATE PARK  
 OHV CAMPGROUND  
 PROJECT NO. 07265510



## SYMBOL LEGEND

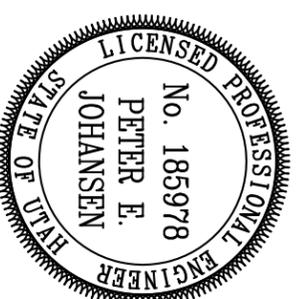
SYMBOL	DESCRIPTION
<b>REFERENCE AND LINE SYMBOLS</b>	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
<b>WIRING METHODS</b>	
	WIRING.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBER. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBER. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
<b>WIRING DEVICES</b>	
	RV POWER PEDESTAL
<b>ELECTRICAL POWER AND DISTRIBUTION</b>	
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	TRANSFORMER (ONE-LINE DIAGRAM).
	PANELBOARD (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	METER.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.

## GENERAL ELECTRICAL NOTES

- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

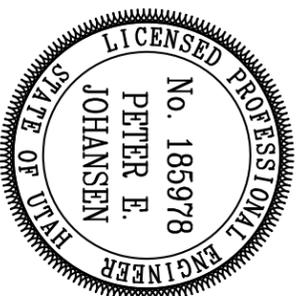
## ELECTRICAL SHEET INDEX

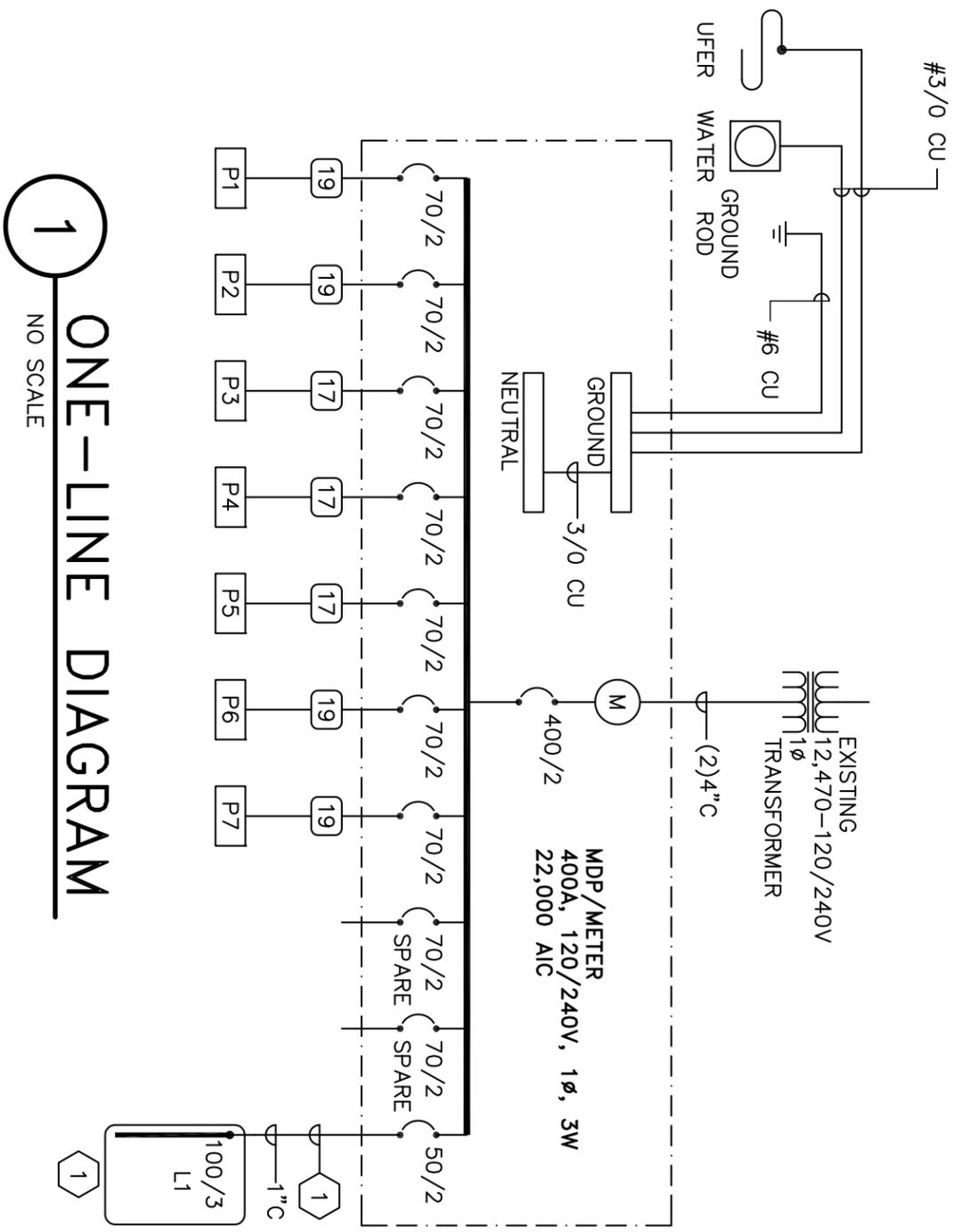
SHEET NO	SHEET TITLE
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# PANEL "MDP/METER MAIN DISCONNECT"

VOLTS/PHASE/WIRE: 120/240 V, 1 PH 3 WIRE		PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON		MAIN SIZE & TYPE: 400 AMPERE MAIN/METER		CABINET: NEMA 34		NOTES:									
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, INSULATED GROUND BAR, SUBFEED LUGS																	
CKT NO	OCP		LOAD (KVA)			DESCRIPTION	LCL PHASEOAD			LCL KVA	DESCRIPTION	LOAD (KVA)			OCP		CKT NO
	AMP	POLE	LTG	CO	PWR		A	B	KVA			A	B	PWR	AMP	POLE	
1	70	2			5.5	P1	5.5	11.0	5.5		P6	5.5	70	2	2	2	
3	-	-			5.5		5.5		5.5		-	5.5	-	-	4	4	
5	70	2			5.5	P2	5.5	11.0	5.5		P6	5.5	70	2	6	6	
7	-	-			5.5		5.5		5.5		-	5.5	-	-	8	8	
9	70	2			5.5	P3	5.5	11.0	5.5		P6	5.5	70	2	10	10	
11	-	-			5.5		5.5		5.5		-	5.5	-	-	12	12	
13	70	2			5.5	P4	5.5	11.0	5.5		P6	5.5	70	2	14	14	
15	-	-			5.5		5.5		5.5		-	5.5	-	-	16	16	
17	70	2			5.5	P5	5.5	5.5	5.5		SPARE			1	18		
19	-	-			5.5		5.5		5.5		SPARE			1	20		
21	70	2			5.5	P6	5.5	5.5	5.5		SPARE			1	22		
23	-	-			5.5		5.5		5.5		SPARE			1	24		
25	20	1				SPARE	0.0	0.0	0.0		SPARE			1	26		
27	20	1				SPARE	0.0	0.0	0.0		SPARE			1	28		
29	20	1				SPARE	0.0	0.0	0.0		SPARE			1	30		
31	20	1				SPARE	0.0	0.0	0.0		SPARE			1	32		
<b>TOTALS:</b>										KVA PER PHASE		55	55	CONNECTED TOTAL KVA		110.0	
										AMPS PER PHASE		458	458	CONNECTED AVERAGE AMPS PER PHASE		458	
<b>NEC DIVERSIFIED LOAD CALCULATIONS</b>										LIGHTING 0KVA @125% =		0	0	ALL OTHER LOADS @100% =		110	110
										RECEPTACLES 0KVA @100% =		0	0	25% OF LARGEST MOTOR =		0	0
										REMAINDER 0KVA @ 50% =		0	0	DIVERSIFIED TOTAL KVA =		110	110
														AVERAGE AMPS PER PHASE =		458	458





**1**  
ONE-LINE DIAGRAM  
NO SCALE

**SHEET KEYNOTES**

1. FUTURE PANEL FOR SHOWER/RESTROOM. RUN CONDUIT ONLY.
2. UTILITY TO PULL CONDUCTOR TO METER TERMINATIONS.

**CONDUCTOR AND CONDUIT SCHEDULE**

SCHEDULE NUMBER (E.G.) [5] IG

SUBSCRIPT (NOTE 5)

SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1)		IG	SE	NOTES
			QTY	SIZE			
[17]	85	1.25	3	3	8	3	2
[19]	95	1.25	3	2	8	2	2

**CONDUCTOR AND CONDUIT SCHEDULE NOTES**

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
5. WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.



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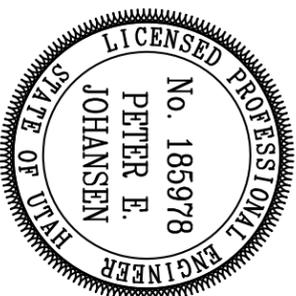
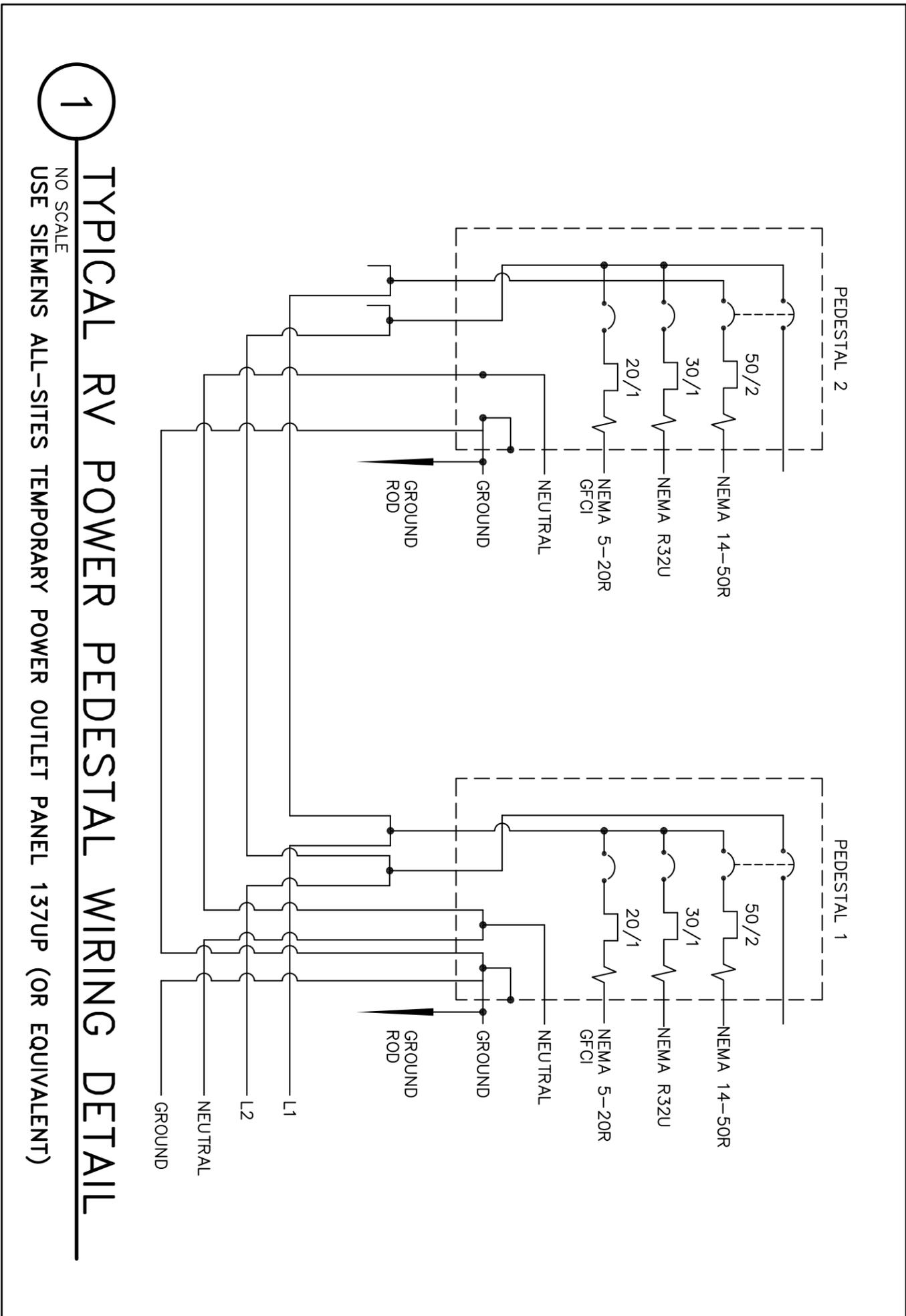
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		DRAWN	JNT	CHECKED	CEJ	4-08
		SURVEYED	BHT	CHECKED	LMS	4-08
		R.O.W.	LMS	CHECKED	CEJ	4-08

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OHV CAMPGROUND  
 ONE LINE  
 DIAGRAM  
 PROJECT NO. 07265510  
 SHEET NO. E-2



PROJECT NO. 07265510	SHEET NO. E-3	OHV CAMPGROUND DETAILS	 STATE OF UTAH DFCM SAND HOLLOW STATE PARK OHV CAMPGROUND PROJECT NO. 07265510	 JOHANSEN & TUTTLE ENGINEERING INC. BOX 487, CASTLE DALE, UTAH 84513 (435) 381-2523 FAX (435) 381-2522 EMAIL jt@etv.net	THIS DRAWING IS TO BE USED FOR THIS PROJECT AND THIS PROJECT ONLY UNLESS AUTHORIZED BY THE PROJECT ENGINEER AT JOHANSEN & TUTTLE ENGINEERS, INC.								
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					DRAWN	JNT	4-08	CHECKED	CEJ	4-08			
					SURVEYED	BHT	4-08	CHECKED	LMS	4-08			
					REV	DESCRIPTION		R.O.W.	LMS	4-08	CHECKED	CEJ	4-08

1  
ELECTRICAL SITE PLAN  
SCALE: 1" = 100'-0"

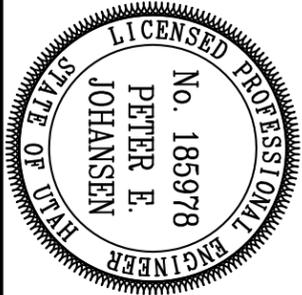


**GENERAL SHEET NOTES**

1. ALL PANELS MUST BE IN NEMA 3R ENCLOSURE.

**KEYNOTES**

1. 400/3 AMP, 120/240 VOLT MDP/METER. MOUNT ON UNISTRUT.
2. RV POWER OUTLET PEDESTAL. SEE SHEET E-3. MOUNT BOTTOM OF PEDESTAL 24" BELOW GRADE.
3. 100/2 AMP, 120/240 VOLT FUTURE PANEL "L1" FOR RESTROOMS. RUN CONDUITS ONLY.
4. EXISTING 12,470, 120/240 VOLT UTILITY TRANSFORMER



OHV CAMPGROUND ELECTRICAL SITE PLAN  
PROJECT NO. 07265510  
SHEET NO. E-4



STATE of UTAH DFCM  
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