

## ONE LINE DELTA WYE TRANSFORMER UNO $\sim$ PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE **VOLTAGE** PHASE CIRCUIT BREAKER, SIZE AND POLES INDICATED ##A FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE ##A INTERRUPTER SWITCH, SIZE AND POLES INDICATED ##A FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED ##A DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO **GROUND FAULT PROTECTION** GFP TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION LSIGR — ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS): 'L'-LONG TIME 'S'-SHORT TIME 'I'-INSTANTANEOUS 'G'-GROUND FAULT GROUND SHUNT TRIP COIL **∕**M∕ DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO OVERHEAD SERVICE DROP GENERATOR SET, MAIN BREAKER SIZE INDICATED AUTOMATIC TRANSFER SWITCH (ATS) METER AND BASE DRY TYPE TRANSFORMER

THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME NOTE: OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING

COMMUNICATIONS

JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18"

PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.

A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER

TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1"

FLOOR MOUNTED BOX FOR FUTURE TELEPHONE/DATA OUTLET.

CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF

DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST

DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT

JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT

TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER

FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO

TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.

TELEVISION OUTLET, +18" AFF UNO. PROVIDE 1-1/4" CONDUIT TO

NEAREST ACCESSIBLE CEILING SPACE

CEILING MOUNTED TELEVISION OUTLET

TELEPHONE TERMINAL BOARD

NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND

PAD MOUNT TRANSFORMER

### CIRCUITING SYMBOLS DESIGNATES CIRCUIT ON ——— CONDUCTORS EMERGENCY SOURCE NEUTRAL CONDUCTORS UNMARKED CIRCUIT IS CONCEALED IN —— CEILING OR WALL. MAINTAIN CONDUIT AND CONDUCTOR SIZE GROUNDING CONDUCTOR THROUGHOUT ENTIRE CIRCUIT. BEGINNING OF INDIVIDUAL ----— PANEL NAME CIRCUIT(S), CIRCUIT NUMBER(S) INDICATED. —— CIRCUIT # CONDUIT DOWN CONDUIT UP PANEL HOMERUN. (3/4"-2#12,1#12G CONDUCTORS UNO) EXISTING —— CONCEALED IN FLOOR OR EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE NOT ALLOWED. EACH 1 POLE BREAKER SHALL BE FURNISHED WITH AN INDIVIDUAL CONDUIT, STUBBED, CAPPED AND MARKED DEDICATED NEUTRAL CONDUCTOR. WITH PULL CORD AS SPECIFIED

# 'R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR

### PULL STATION, +44" AFF WITH PRE-ALARM COVER FIRE ALARM HORN, +84" AFF UNO FIRE ALARM STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED FIRE ALARM HORN/STROBE +84" AFF, UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED FIRE ALARM BELL, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED FIRE ALARM CHIME, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED FIRE ALARM CHIME/STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED SPEAKER STROBE, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED END OF LINE RESISTOR FLOW SWITCH, PROVIDE MONITOR MODULE AS REQUIRED TAMPER SWITCH, PROVIDE MONITOR MODULE AS REQUIRED PRESSURE SWITCH, PROVIDE MONITOR MODULE AS REQUIRED FIRE SYSTEM ANNUNCIATOR, FLUSH MOUNTED +54"UNO POST INDICATOR VALVE, PROVIDE MONITOR MODULE AS REQUIRED DH ELECTROMAGNETIC DOOR HOLDER CONTROL MODULE MONITOR MODULE FIRE ALARM KNOX BOX FIRE ALARM CONTROL PANEL NAC EXTENDER PANEL FIRE/SMOKE DAMPER LED INDICATOR LIGHT, CEILING MOUNTED UNO LED INDICATOR LIGHT WITH TEST SWITCH, CEILING MOUNTED UNO DUCT-MOUNTED SMOKE DETECTOR SMOKE DETECTOR, CEILING MOUNTED UNO IONIZATION IN DUCT PHOTOELECTRI( WG PROVIDE PROTECTIVE WIRE GUARD BS,BR BEAM DETECTOR, SENDER & RECEIVER

FIRE ALARM

### ELECTRICAL GENERAL NOTES

- THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
- ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL, SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.
- D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.
- TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.
- MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO
- ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES PER NEC 406.12
- H. THE ELECTRICAL DEMOLITION DRAWING(S) PROVIDED ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND MAY NOT INDICATE ALL DEVICES OR THE FULL EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS THAT WILL BE NECESSARY TO PERFORM DEMOLITION RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE

ALL ELECTRICAL DEVICES AND WALLS INDICATED ON THE ELECTRICAL DEMOLITION DRAWING(S) ARE TO REMAIN UNLESS OTHERWISE NOTED.

# SHEET INDEX

E000 ELECTRICAL COVER SHEET E100 LIGHTING PLANS

E200 POWER PLANS E300 MECHANICAL POWER PLANS

E400 SCHEDULES AND ONE LINE

LEGEND IS GENERAL IN NATURE. NOT ALL OF THE SYMBOLS SHOWN ARE USED IN THIS PROJECT.

### **ELECTRICAL SPECIFICATIONS**

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES, AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.
- B. OBTAIN ALL PERMITS, COORDINATE, FURNISH, INSTALL, CONNECT AND TEST ALL ELECTRICAL EQUIPMENT REQUIRED FOR ALL THE SYSTEMS INSTALLED UNDER THIS CONTRACT TO INSURE COMPLETE AND FULLY OPERATIONAL
- CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF AS-BUILT DRAWINGS. AS-BUILT SET OF DRAWINGS SHALL BE UPDATED DAILY AND SHALL DOCUMENT THE ACTUAL INSTALLED CONDITION OF THE ENTIRE ELECTRICAL INSTALLATION. AS-BUILT SET OF DRAWINGS SHALL BE AVAILABLE AT ALL TIMES ON THE SITE FOR INSPECTION BY CODE OFFICIALS, OWNER, ARCHITECT AND ENGINEER.
- D. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION.
- DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS THEY RELATE TO THE SCOPE OF WORK AS SHOWN ON THESE
- COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN.
- DEMOLITION WORK IS A PART OF THIS PROJECT. SEE DRAWINGS FOR EXISTING ELECTRICAL DEVICES TO BE REMOVED. REMOVE ASSOCIATED BOXES, RACEWAYS AND CONDUCTORS BACK TO SOURCE, AND MAKE SAFE.
- ALL MATERIALS AND EQUIPMENT FURNISHED TO THE PROJECT SHALL BE NEW AND SHALL BEAR THE LISTING LABEL OF A NATIONALLY RECOGNIZED TESTING LAB AS DEFINED BY OSHA.
- ALL ELECTRICAL DEVICES AND TERMINALS SHALL BE RATED 75°C MINIMUM.
- ALL CONDUCTORS SHALL BE STRANDED COPPER, 600 VOLT RATED. INSULATION TYPE SHALL BE THHN/THWN, FULLY COLOR CODED WITH GAUGE, TYPE AND MANUFACTURER MARKED EVERY 24" ALONG. CONDUCTOR COLOR CODE SHALL BE AS FOLLOWS:

208Y/120 VOLT	<u> SYSTEM</u>	4	80Y/277 VO	_T SYSTEM
PHASE A	- BLACK		PHASE A	- BROWN
PHASE B	- RED		PHASE B	- ORANGE
PHASE C	- BLUE		PHASE C	- YELLOW
NEUTRAL	- WHITE		NEUTRAL	- GRAY
GROUND	- GREEN		GROUND	- GREEN
AINHAI IM CIZE WIDE I	OD DOWED	ANDLICHTIN		CUALL DE #10

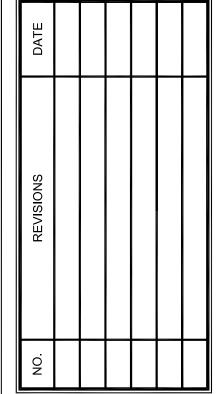
- MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUITS SHALL BE #12 AWG. ALL POWER AND LIGHTING CONDUCTORS SHALL BE ROUTED IN 3/4" CONDUIT
- M. EMT OR MC TYPE CABLE IS ALLOWED WHEN CONCEALED IN INTERIOR SPACES. MC TYPE CABLE IS NOT ALLOWED FOR HOMERUNS.
- N. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
- O. ALL EQUIPMENT, SWITCHING DEVICES AND PANELS SHALL BE MOUNTED SO AS TO BE ACCESSIBLE AND SHALL BE MOUNTED PLUMB AND SQUARE WITH
- DEVICES AND RACEWAYS PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH FIRE RESISTIVE MATERIAL, COMPATIBLE WITH CONSTRUCTION PENETRATED, TO MAINTAIN RATING OF THE WALL. SEALANT SYSTEM SHALL BE A U.L. APPROVED SYSTEM AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- Q. FURNISH AND INSTALL PULL CORD IN ALL EMPTY CONDUITS.
- R. ALL JUNCTION BOX COVERS WITH POWER WIRING SHALL HAVE THE PANEL AND CIRCUIT LABELED ON THE OUTSIDE SURFACE. ALL LABELS FOR EXPOSED JUNCTION BOXES IN "FINISHED AREAS" SHALL BE LABELED UTILIZING SELF ADHESIVE LABELS PRODUCED BY A MECHANICAL LABELING MACHINE. LABELS FOR JUNCTION BOX COVERS IN CONCEALED LOCATIONS SHALL CONSIST OF THE INFORMATION BEING NEATLY HANDWRITTEN ON THE OUTSIDE SURFACE OF THE COVER WITH A PERMANENT STYLE MARKER.
- CLEARLY LABEL ALL ACCESSIBLE CONDUIT STUBS WITH SYSTEM NAME AND LOCATION (ROOM NUMBER) WHERE THE OTHER END OF THE CONDUIT TERMINATES. USE INDELIBLE INK. THE LABELS SHALL BE LOCATED ON THE CONDUIT IN A POSITION THAT CAN BE EASILY READ.
- ALL 1 POLE BREAKER CIRCUITS SHALL HAVE AN INDEPENDENT NEUTRAL CONDUCTOR. NO EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE
- ALL CONDUCTORS IN ELECTRICAL PANELS, CABINETS AND EQUIPMENT SHALL BE NEATLY TRAINED AND LACED.

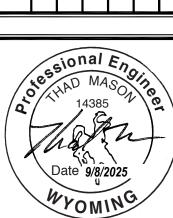
DIVISION 1 SPECIFICATIONS.

- THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES
- FOR ALL PANELS. DIRECTORIES SHALL BE TYPED. W. PROVIDE ELECTRICAL SUBMITTALS FOR EQUIPMENT SHOWN AS REQUIRED BY
- ELECTRICAL CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT
- VALUE FROM THE LOCAL UTILITY OR THE ONE-LINE DIAGRAM AND LABEL THE MAIN BREAKER WITH THAT VALUE.
- SWITCH AND RECEPTACLE LABELING: IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH DEVICES ARE SERVED. USE MACHINE PRINTED LABEL AND 1/8" TEXT. INSTALL ON THE OUTSIDE OF THE FACEPLATE FOR RECEPTACLES AND INSIDE THE FACEPLATE FOR SWITCHES.

### TETON COUNTY WYOMING BUILDING CODES

2024 INTERNATIONAL RESIDENTIAL CODE (IRC) 2024 TETON COUNTY BUILDING CODE RESOLUTION 2024 INTERNATIONAL MECHANICAL CODE (IMC) 2024 INTERNATIONAL FUEL GAS CODE (IFGC) 2023 NATIONAL ELECTRIC CODE (NEC) 2023 TETON COUNTY ELECTRIC CODE RESOLUTION 2024 INTERNATIONAL PLUMBING CODE (IPC) 2021 INTERNATIONAL FIRE CODE (IFC) 2024 TETON COUNTY FIRE CODE RESOLUTION 2021 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE (IWUIC) 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)







# OM TO SE **D**

PROJECT 25-227 CHECKED <sub>TM</sub> DATE 25-09-08 SHEET NAME

ELECTRICAL COVER SHEET

<b>)</b>	NEL: A1	PROJEC	T: 25-22	27 ALPII	NE EDU	JCA1	TION FOUNI	DATION								
OL.	AGE: 240 / 120 V	1	PH	3	WIRE		AMPERE F	RATING:	125A	WIT	ГН	125A	СВ		MOUNTING: SURFACE	
ASI	S OF DESIGN PANEL TYPE:	LOAD	ENTER				NEM A ENC	LOSURE TYP	E:	3R				PANE	L AIC RATING: 22000	
GF GF	NOTES: CIFOR PERSONNEL PROTECTION (5mA) EPFOR EQUIPMENT PROTECTION (30mA) CICOMBINATION STYLE BREAKER							REMARKS:								
_		СКТ	LOAD	LOAD	AMPS	S/		LOAD (VA)		AME	PS/	LOAD	LOAD	CKT		
KT	DESCRIPTION	NOTE	VA	AMPS	POLE	s	Α	N/A	С	POL	ES.	AMPS	VA	NOTE	DESCRIPTION	С
1	HVAC		9600	80.0	100	2	10320			20	1	6.0	720		GFI / RECEPTS	2
3	***		9600	80.0	**	*		_	9810	20	1	1.8	210		LIGHTS / FANS	4
5	RECEPTS		720	6.0	20	1	1720	]		20	1	8.3	1000		DED RECEPTS	(
7	RECEPTS		900	7.5	20	1		_	1650	20	2	6.3	750		WALL HEATER	8
9	WALL HEATER		750	6.3	20	2	1500			**	*	6.3	750		***	1
1	***		750	6.3	**	*		_	1758	20	1	8.4	1008		LIGHTS, RECEPTS	1
3	SPARE			0.0	20	1	0			20	1	0.0			SPARE	1
5	SPARE			0.0	20	1		_	0	20	1	0.0			SPARE	1
7	SPARE			0.0	20	1	0	]		20	1	0.0			SPARE	1
9	SPARE			0.0	20	1		_	0	20	1	0.0			SPARE	2
						-	13540.0 112.8		13218.0 110.2	VA AMPS	<u>.                                    </u>			26758	TOTAL VA	

P	ANEL: A2	PROJEC	T: 25-2	27 ALPII	NE EDU	ICA <sup>-</sup>	TION FOUNI	DATION								
VOL	TAGE: 240 / 120 V	1	PH	3	WIRE		AMPERE F	RATING:	125A	WIT	ГН	125A	СВ		MOUNTING: SURFACE	
BASI	S OF DESIGN PANEL TYPE:	LOAD	ENTER				NEM A ENC	CLOSURE TY	PE:	3R			•	PANE	L AIC RATING: 22000	
СКТ	NOTES:							REMARKS:								
1. GF	CI FOR PERSONNEL PROTECTION (5mA)															
2 GF	EP FOR EQUIPMENT PROTECTION (30mA)															
3. AF	CI COMBINATION STYLE BREAKER															
		CKT	LOAD	LOAD	AMPS	S/		LOAD (VA)	)	AMI	PS/	LOAD	LOAD	CKT		
СКТ	DESCRIPTION	NOTE	VA	AMPS	POLE	S	Α	N/A	С	POL	.ES	AMPS	VA	NOTE	DESCRIPTION	CK <sup>-</sup>
1	HVAC		9600	80.0	100	2	10320			20	1	6.0	720		GFI / RECEPTS	2
3	***		9600	80.0	**	*		<b>=</b>	9810	20	1	1.8	210		LIGHTS / FANS	4
5	RECEPTS		720	6.0	20	1	1720			20	1	8.3	1000		DED RECEPTS	6
7	RECEPTS		900	7.5	20	1		-	1650	20	2	6.3	750		WALL HEATER	8
9	WALL HEATER		750	6.3	20	2	1500			**	*	6.3	750		***	10
11	***		750	6.3	**	*		_	1758	20	1	8.4	1008		LIGHTS, RECEPTS	12
13	SPARE			0.0	20	1	0			20	1	0.0			SPARE	14
15	SPARE			0.0	20	1		=	0	20	1	0.0			SPARE	16
17	SPARE			0.0	20	1	0			20	1	0.0			SPARE	18
19	SPARE			0.0	20	1		_	0	20	1	0.0			SPARE	20
							13540.0		13218.0	VA		•				
							112.8		110.2	AMPS	3			26758	TOTAL VA	

P/	NEL: B1	PROJEC	T: 25-22	27 ALPII	NE EDU	CATIO	ON FOUND	DATION								
VOL.	FAGE: 240 / 120 V	1	PH	3	WIRE	Δ	AMPERE R	ATING:	125A	WIT	Н	125A	СВ		MOUNTING: SURFACE	
BASI	S OF DESIGN PANEL TYPE:	LOAD	ENTER			N	NEM A ENC	LOSURETYP	E:	3R				PANE	L AIC RATING: 10000	
СКТ	NOTES:							REMARKS:								
1. GF	CIFOR PERSONNEL PROTECTION (5mA)															
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СКТ	DESCRIPTION	NOTE	VA	AMPS	POLE	s	Α	N/A	С	POLI	ES	AMPS	VA	NOTE	DESCRIPTION	С
1	HVAC		9600	80.0	100	2	10320			20	1	6.0	720		GFI / RECEPTS	2
3	***		9600	80.0	**	*		•	9836	20	1	2.0	236		LIGHTS / FANS	4
5	HEAT TAPE		1000	8.3	20	1	1720			20	1	6.0	720		RECEPTS	6
7	RECEPTS		900	7.5	20	1			2050	20	2	4.8	1150		LIGHTS	8
9	WATER HEATER		1500	12.5	20	1	1500			**	*	4.8			SPARE	1
11	SPARE			0.0	20	1			0	20	1	0.0			SPARE	1
13	SPARE			0.0	20	1	0			20	1	0.0			SPARE	1
15	SPARE			0.0	20	1			0	20	1	0.0			SPARE	1
17	SPARE			0.0	20	1	0			20	1	0.0			SPARE	1
19	SPARE			0.0	20	1			0	20	1	0.0			SPARE	2
							13540.0		11886.0	VA						
							112.8		99.1	AMPS	;			25426	TOTAL VA	

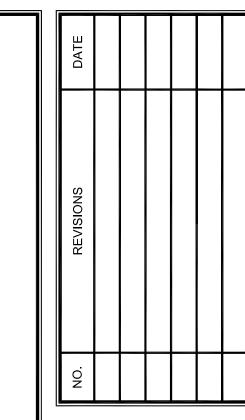
/OLT	AGE: 240 / 120 V	1	PH	3	WIRE		AMPERE F	RATING:	125A	WIT	ТН	125A	CB		MOUNTING: SURFACE	
BASIS	OF DESIGN PANEL TYPE:	LOAD	ENTER				NEM A ENC	LOSURE TYP	E:	3R				PANE	L AIC RATING: 10000	
	NOTES:						•	REMARKS:								
	CI FOR PERSONNEL PROTECTION (5mA)															
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. AF	CI COMBINATION STYLE BREAKER															
		CKT	LOAD	LOAD	AMPS	S/		LOAD (VA)		AME	PS/	LOAD	LOAD	CKT		
CKT	DESCRIPTION	NOTE	VA	AMPS	POLE	S	Α	N/A	С	POL	ES	AMPS	VA	NOTE	DESCRIPTION	CK
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7	RECEPTS		900	7.5	20	1		_	2050	20	2	4.8	1150		LIGHTS	8
9	WATER HEATER		1500	12.5	20	1	1500	]		**	*	4.8			SPARE	10
11	SPARE			0.0	20	1		_	0	20	1	0.0			SPARE	12
11	SPARE			0.0	20	1	0	]		20	1	0.0			SPARE	14
	5171142			^^	20	1		_	0	20	1	0.0			SPARE	16
13	SPARE			0.0												
13 15			320	2.7	20	2	320	]		20	1	0.0			SPARE	18

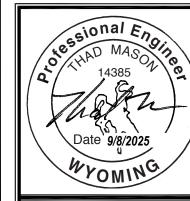
P/	ANEL: C1	PROJEC	T: 25-2	27 ALPII	NE EDU	ICA <sup>-</sup>	TION FOUND	ATION								
VOLT	rage: 240 / 120 V	1	PH	3	WIRE		AMPERE R	ATING:	125A	WIT	Н	125A	СВ		MOUNTING: SURFACE	
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		СКТ	LOAD	LOAD	AMPS	S/		LOAD (VA)		AMF	PS/	LOAD	LOAD	CKT		
CKT	DESCRIPTION	NOTE	VA	AMPS	POLE	S	Α	N/A	С	POLI	ES	AMPS	VA	NOTE	DESCRIPTION	Cł
1	HVAC		9600	80.0	100	2	10500			20	1	7.5	900		WP GFI / RECEPTS	2
3	***		9600	80.0	**	*		•	10320	20	1	6.0	720		RECEPTS	4
5	RECEPTS		900	7.5	20	1	1440			20	1	4.5	540		RECEPTS	6
7	LIGHTS		734	6.1	20	1		•	1094	20	2	1.5	360		GFI	8
9	SPARE			0.0	20	2	0			**	*	1.5			SPARE	10
11	SPARE			0.0	**	*			0	20	1	0.0			SPARE	12
13	SPARE			0.0	20	1	0			20	1	0.0			SPARE	14
15	SPARE			0.0	20	1			0	20	1	0.0			SPARE	16
17	SPARE			0.0	20	1	0			20	1	0.0			SPARE	18
19	SPARE			0.0	20	1			0	20	1	0.0			SPARE	20
							11940.0		11414.0	VA						
	TAGE															

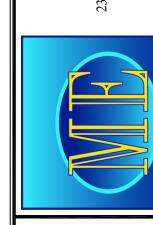
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VOL	TAGE: 240 / 120 V	1	PH	3	WIRE		AMPERE F	RATING:	125A	WIT	Ή	125A	СВ		MOUNTING: SURFACE	
BASI	S OF DESIGN PANEL TYPE:	LOAD	ENTER				NEM A ENC	LOSURE TYP	E:	3R				PANE	L AIC RATING: 10000	
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2 GF	EP FOR EQUIPMENT PROTECTION (30mA)															
3. AF	CICOMBINATION STYLE BREAKER															
		CKT	LOAD	LOAD	AMP	S/		LOAD (VA)		AME	PS/	LOAD	LOAD	CKT		
CKT	DESCRIPTION	NOTE	VA	AMPS	POLE	S	Α	N/A	С	POL	ES	AMPS	VA	NOTE	DESCRIPTION	CK <sup>-</sup>
1	HVAC		9600	80.0	100	2	10500			20	1	7.5	900		WP GFI / RECEPTS	2
3	***		9600	80.0	**	*		-	10320	20	1	6.0	720		RECEPTS	4
5	RECEPTS		900	7.5	20	1	1440	1		20	1	4.5	540		RECEPTS	6
7	LIGHTS		734	6.1	20	1		-	1094	20	2	1.5	360		GFI	8
9	SPARE			0.0	20	2	0	]		**	*	1.5			SPARE	10
11	SPARE			0.0	**	*		_	0	20	1	0.0			SPARE	12
13	SPARE			0.0	20	1	0	]		20	1	0.0			SPARE	14
15	SPARE			0.0	20	1		•	0	20	1	0.0			SPARE	16
17	SPARE			0.0	20	1	0	]		20	1	0.0			SPARE	18
19	SPARE			0.0	20	1		•	0	20	1	0.0			SPARE	20
	-	-	-			_	11940.0		11414.0	VA						_
							99.5		95.1	AMPS	;			23354	TOTAL VA	

VOLT	ΓAGE: 240 / 120 V	1	PH	3	WIRE	A	MPERER	ATING:	125A	WIT	Н	125A	СВ		MOUNTING: SURFACE	
BASI	S OF DESIGN PANEL TYPE:	LOAD	ENTER			N	IEMA ENC	LOSURE TYPI	<u>:</u>	3R				PANE	L AIC RATING: 10000	
CKT I	NOTES:							REMARKS:								
1. GF	CIFOR PERSONNEL PROTECTION (5mA)															
2 GF	EP FOR EQUIPMENT PROTECTION (30mA)															
3. AF	CI COMBINATION STYLE BREAKER															
		CKT	LOAD	LOAD	AMPS	S/		LOAD (VA)		AMF	PS/	LOAD	LOAD	CKT		Т
СКТ	DESCRIPTION	NOTE	VA	AMPS	POLE	s	Α	N/A	С	POLI	ES	AMPS	VA	NOTE	DESCRIPTION	-   (
1	HVAC		9600	80.0	100	2	10500			20	1	7.5	900		WP GFI / RECEPTS	Î
3	***		9600	80.0	**	*		·	10320	20	1	6.0	720		RECEPTS	T
5	RECEPTS		900	7.5	20	1	1440			20	1	4.5	540		RECEPTS	
7	LIGHTS		882	7.4	20	1		·	1242	20	2	7.8	360		GFI	
9	HEAT TAPE		1000	8.3	20	1	2500			**	*	7.8	1500		WATER HEATER	
11	SPARE			0.0	20	1		· [	0	20	1	0.0				
13	SPARE			0.0	20	1	0			20	1	0.0			SPARE	
15	SPARE			0.0	20	1			0	20	1	0.0			SPARE	
17	SPARE			0.0	20	1	0			20	1	0.0			SPARE	
19	SPARE			0.0	20	1			0	20	1	0.0			SPARE	
							14440.0	'	11562.0	VA	•		•			
							120.3		96.4	AMPS				20002	TOTAL VA	

VOL	TAGE: 240 / 120 V	1	PH	3	WIRE		AMPERE F	RATING:	125A	WIT	Н	125A	СВ		MOUNTING: SURFACE	
BASI	S OF DESIGN PANEL TYPE:	LOAD					NEMA ENC	LOSURE TYP		3R				PANE	L AIC RATING: 10000	
	NOTES:						1	REMARKS:		• • •						
1. GF	FCI FOR PERSONNEL PROTECTION (5mA)															
	EP FOR EQUIPMENT PROTECTION (30mA)															
	CI COMBINATION STYLE BREAKER															
	Ι	СКТ	LOAD	LOAD	AMPS	S/		LOAD (VA)		AMF	PS/	LOAD	LOAD	CKT		$\overline{}$
CKT	DESCRIPTION	NOTE	1	AMPS			Α	N/A	С	POL		AMPS	VA	NOTE	DESCRIPTION	СКТ
1	HVAC		9600	80.0	100	2	10500			20	1	7.5	900		WP GFI / RECEPTS	2
3	***		9600	80.0	**	*			10320	20	1	6.0	720		RECEPTS	4
5	RECEPTS		900	7.5	20	1	1440	]		20	1	4.5	540		RECEPTS	6
7	LIGHTS		882	7.4	20	1		4	1242	20	2	7.8	360		GFI	8
9	HEAT TAPE		1000	8.3	20	1	2500	]		**	*	7.8	1500		WATER HEATER	10
11	SPARE			0.0	20	1		4	0	20	1	0.0				12
13	SPARE			0.0	20	1	0	]		20	1	0.0			SPARE	14
15	SPARE			0.0	20	1		•	0	20	1	0.0			SPARE	16
17	SPARE			0.0	20	1	0	]		20	1	0.0			SPARE	18
19	SPARE			0.0	20	1		•	0	20	1	0.0			SPARE	20
		-	-				14440.0		11562.0	VA						







ALPINE ALPINE ALPINE WEST 3RD AD LOT 15 ALPINE, WYOMING

╽.		
	PROJECT	25-227
	DRAWN	JB
	CHECKED	TM
	DATE	25-09-08
	SHEET NA	ME

PANEL SCHEDULES

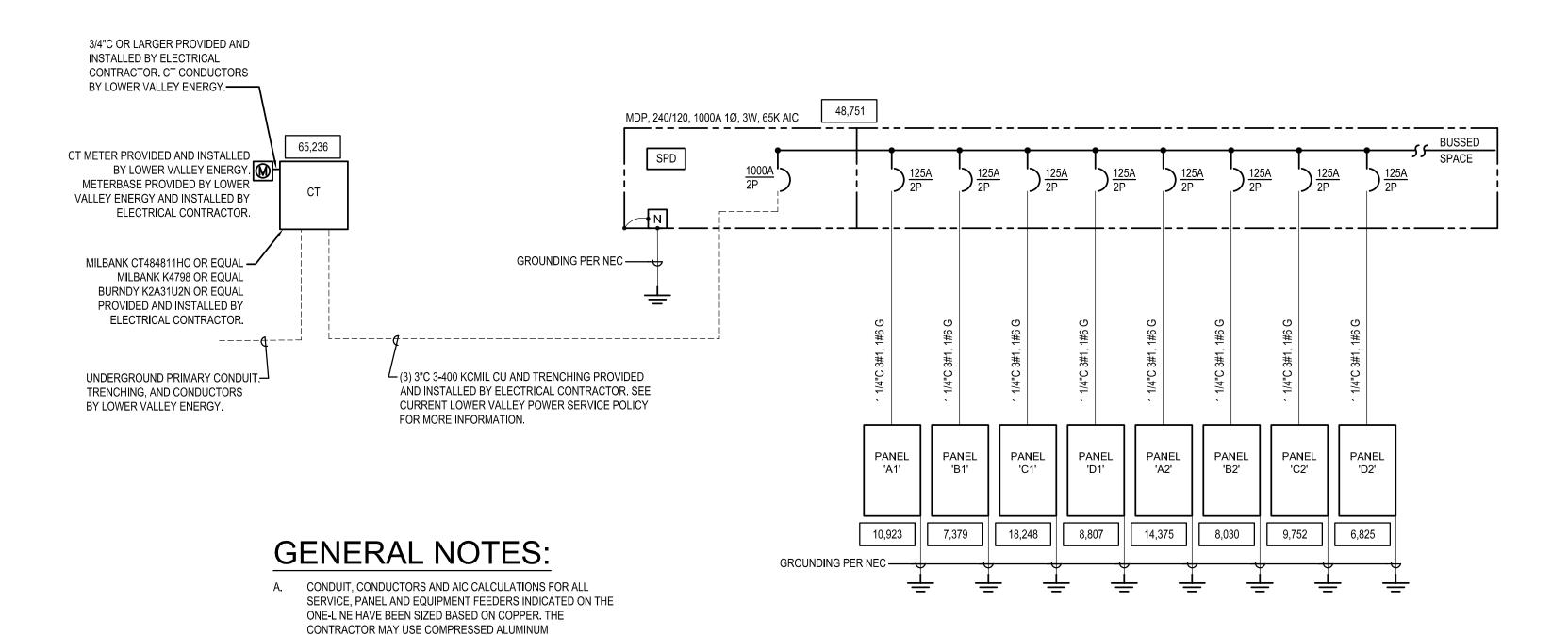
		LIGHTIN	G FIXTURE	SCHEDULI	≣ (25-277)		
TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTES
	LED AREA LUMINAIRE	TOP	LED		LITHONIA NO.	COLUMBIA	
LP1	11,774 LUMENS, 3000K, BLACK	OF POLE	3000K	180	DSX0-LED-P2-30K-80CRI-T4M-MVOLT-SPA-DDBLXD	METALUX	1
	2 HEADS PER LIGHT POLE					DAYBRITE	
	LED AREA LUMINAIRE	TOP	LED		LITHONIA NO.	COLUMBIA	
LP2	12,310 LUMENS, 3000K, BLACK	OF POLE	3000K	90	DSX0-LED-P2-30K-80CRI-T5M-MVOLT-SPA-DDBLXD	METALUX	1
	1 HEAD PER LIGHT POLE					DAYBRITE	
	PARKING LOT LIGHT POLE				LITHONIA NO.	COLUMBIA	
P1	16'-0" POLE DOUBLE HEAD MOUNT 2 AT 180 DEG				SSS-16-4G-DM28-DDLXD	METALUX	1
						DAYBRITE	
	PARKING LOT LIGHT POLE				LITHONIA NO.	COLUMBIA	
P2	16'-0" POLE SINGLE HEAD MOUNT				SSS-16-4G-DM19-DDLXD	METALUX	1
						DAYBRITE	

### LIGHTING FIXTURE SCHEDULE NOT

1 SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF: 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED FIXTURES MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.

			E	LECT	RICAL I	OAD	SUMM	ARY (N	ISB)					
FFFFF	VOLTA 05				CONNE	CTED LOA	D (KVA)				1	TAL TED LOAD		TAL ID LOAD
FEEDER	VOLTAGE	LIGHTING	RECEP	MOTORS	KITCHEN	HVAC	ELEC HEAT	WATER HEAT	MISC	EXIST	KVA	AMPS	KVA	AMPS
A1	120/240	1.2	3.3	0.0	0.0	19.2	3.0	0.0	0.0	0.0	26.8	111.5	27.1	112.8
B1	120/240	0.8	2.3	0.0	0.0	19.2	1.0	1.5	0.0	0.0	24.9	103.5	25.1	104.4
C1	120/240	0.7	3.2	0.0	0.0	19.2	0.0	0.0	0.0	0.0	23.2	96.6	23.4	97.3
D1	120/240	0.9	4.0	0.0	0.0	19.2	1.0	0.9	0.0	0.0	26.0	108.3	26.2	109.3
A2	120/240	1.2	3.3	0.0	0.0	19.2	3.0	0.0	0.0	0.0	26.8	111.5	27.1	112.8
B2	120/240	0.8	2.3	0.0	0.0	19.2	1.0	1.5	0.0	0.0	24.9	103.5	25.1	104.4
C2	120/240	0.7	3.2	0.0	0.0	19.2	0.0	0.0	0.0	0.0	23.2	96.6	23.4	97.3
D2	120/240	0.9	4.0	0.0	0.0	19.2	1.0	0.9	0.0	0.0	26.0	108.3	26.2	109.3
DSB	120/240										0.0	0.0	0.0	0.0
TOTAL	120/240	7.3	25.8	0.0	0.0	153.6	10.0	4.9	0.0	0.0	201.6	839.9	195.5	814.5

PANEL: MDP			Project: 25-227 ALPINE EDUCATION FOUNDATION										
VOLTAGE: 120/240V  PANEL AMP RATING: 1200A WITH  WIRES: 3 PHASE: 1			1000A CB FEED: BOTTOM			DIMENSION: MOUNTING: TYPE:		PER NEC SURFACE SQUARE D I-LINE				LOCATION: EXTERIOR	
												NEMA ENCLOSURE:	3R
LOAD DESC	RIPTION	PH	LOAD	BKR	СКТ	LOAD		CKT BKR		LOAD	PH	LOAD DESCRIP	TION
			WATT	AMPS	NO	Α	В	NO	AMPS	WATT			
PANEL A1		Α	13540	125	1	27080		2	125	13540	Α	PANEL A2	
	2 POLE	В	13218		•		26436			13218	В		2 POLE
PANEL B1		Α	13540	125	3	27080		4	125	13540	Α	PANEL B2	
	2 POLE	В	11886				23772			11886	В		2 POLE
PANEL C1		Α	11940	125	5	23880		6	125	11940	Α	PANEL C2	
	2 POLE	В	11886				23300			11414	В		2 POLE
PANEL D1		Α	14440	125	7	28880		8	125	14440	Α	PANEL D2	
	2 POLE	В	11562		'		23124			11562	В		2 POLE
BLANK		Α				0		10			Α	BLANK	
	2 POLE	В			9		0				В		2 POLE
BLANK		Α			44	0		12	20		Α	SURGE SUPPRESSOR	
	2 POLE				11		0		30		В		2 POLE
FEEDER BREAKER TOTAL LOAD PER PHASE-WATTS						106920	96632	FEED FROM:				C.T. ENCLOSURE	
RATING: 1000A TOTAL LOAD PER PHASE-AMPS						891	806	PANEL AIC RATING:			G:	65,000	



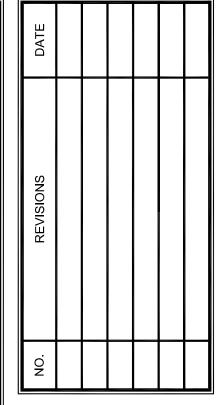
REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.

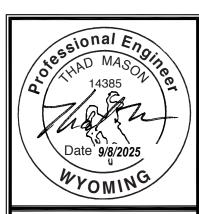
CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS

B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

C. INSTALL THE NEW C.T. ENCLOSURE, METER AND MAIN DISTRIBUTION PANEL ON AN H-FRAME RACK. USE GROUND RODS FOR GROUNDING. THE MODULAR CLASSROOM UNITS DO NOT HAVE A FOUNDATION TO INSTALL A UFER GROUND.

ONE-LINE DIAGRAM





MUSGROVE

ENGINEERING, P.A.

Whisperwood Way 1135 Pier View Dr. #160

Se, Idaho 83709 Idaho Falls, Idaho 83402



ALPINE EDUCATION FOUNDATION ALPINE WEST 3RD AD LOT 15 ALPINE, WYOMING

PROJECT <sub>25-227</sub>

DRAWN <sub>JB</sub>

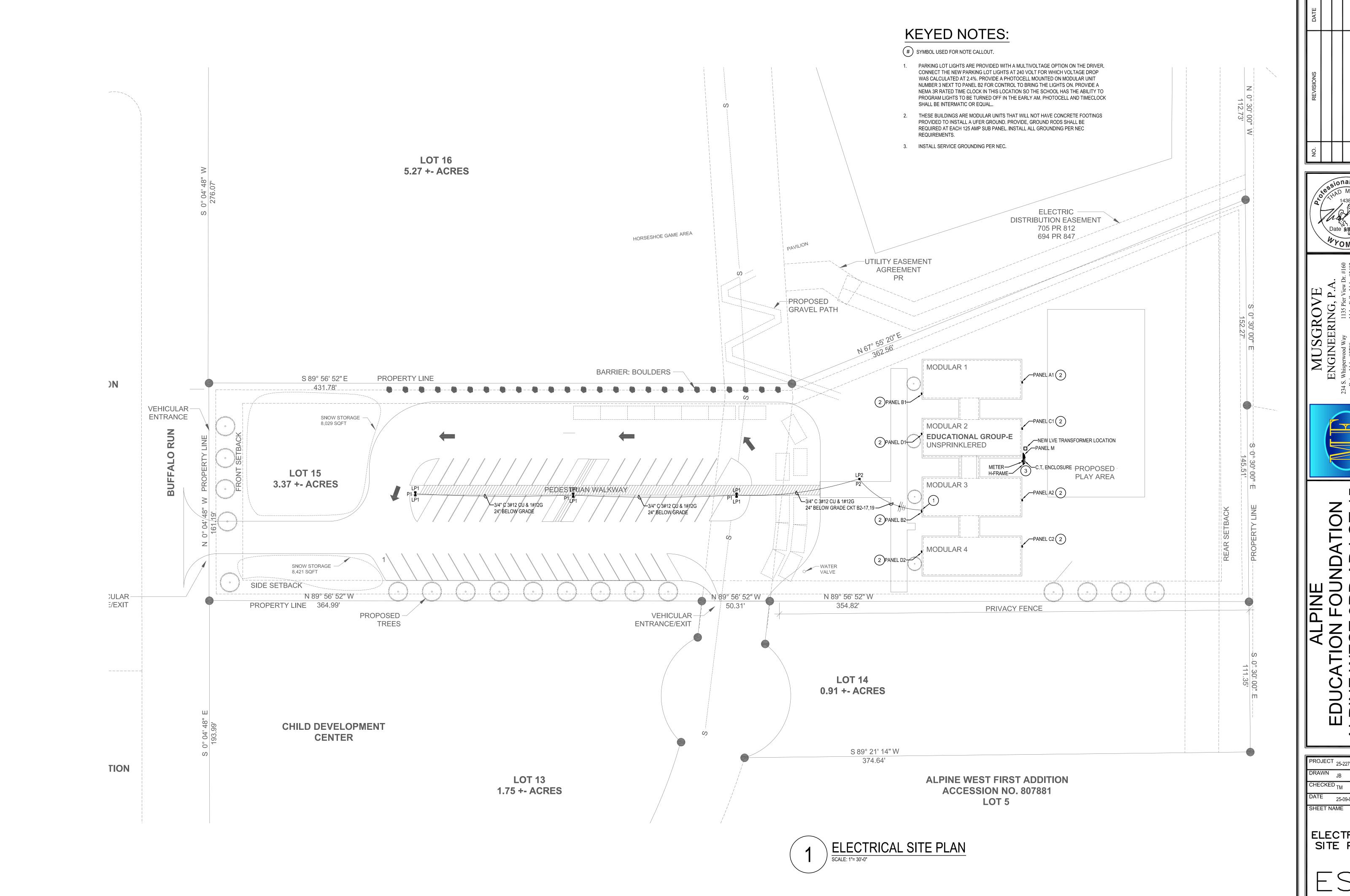
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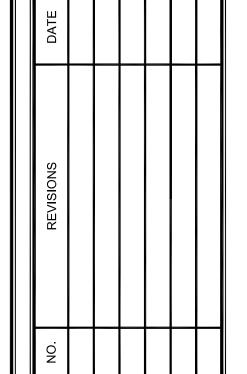
DATE <sub>25-09-08</sub>

SHEET NAME

ONE LINE

E1\_1





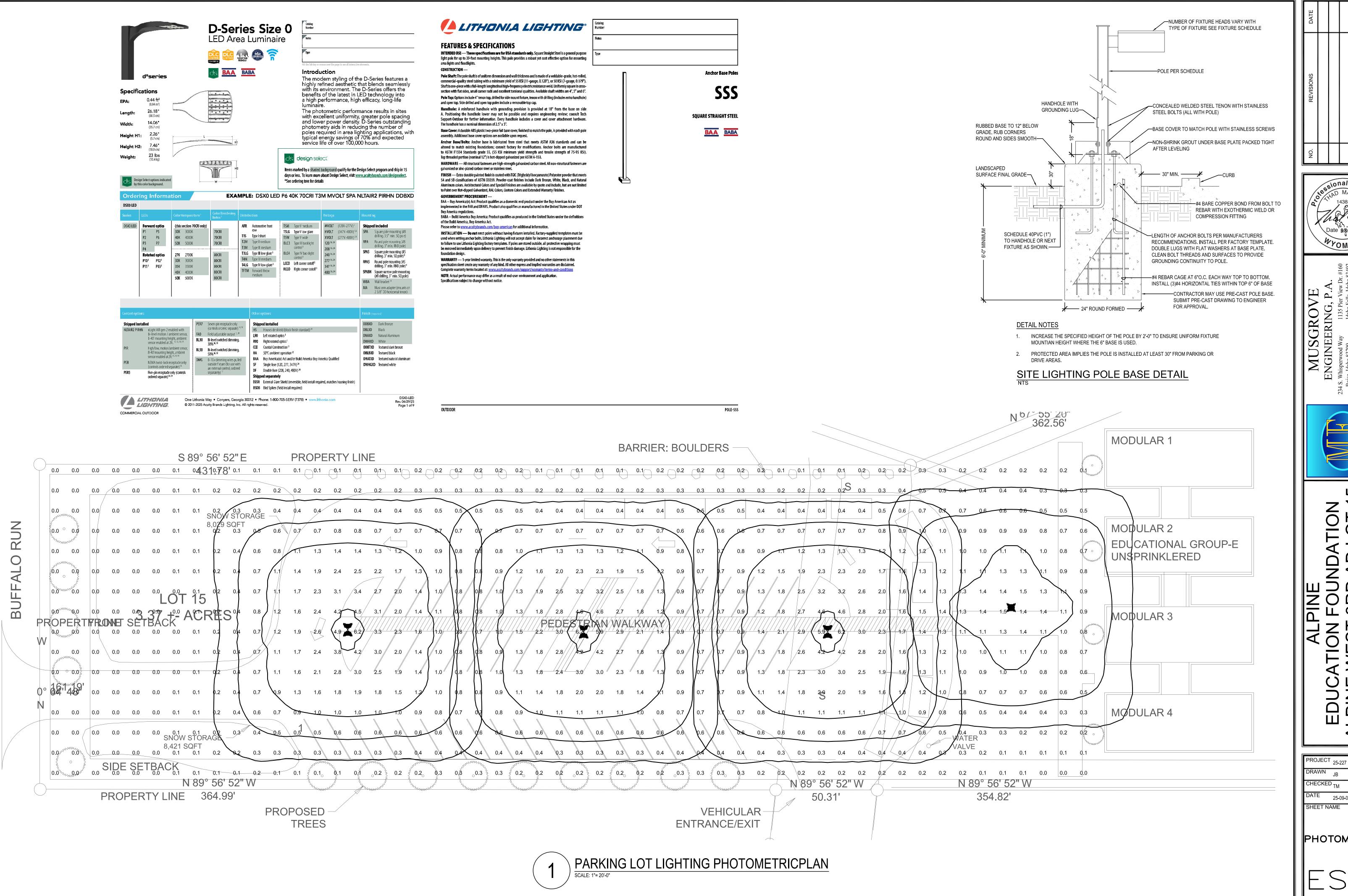


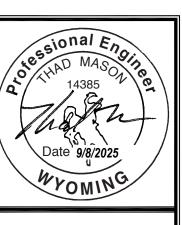


5 ATION COT 1 ALPINE ATION FOUNDATI WEST 3RD AD LO PINE, WYOMING EDUCA ALPINE

PROJECT 25-227 DATE 25-09-08

ELECTRICAL SITE PLAN







ALPINE ON FOUR ST 3RD IE, WYOR ATION WEST PINE, \ EDUC, PINE AL

DATE 25-09-08

PHOTOMETRIC