

# LEWIS-CLARK STATE COLLEGE MTB WELDING BOOTHS

515 11TH AVE - LEWISTON, IDAHO 83501

## PROJECT TEAM

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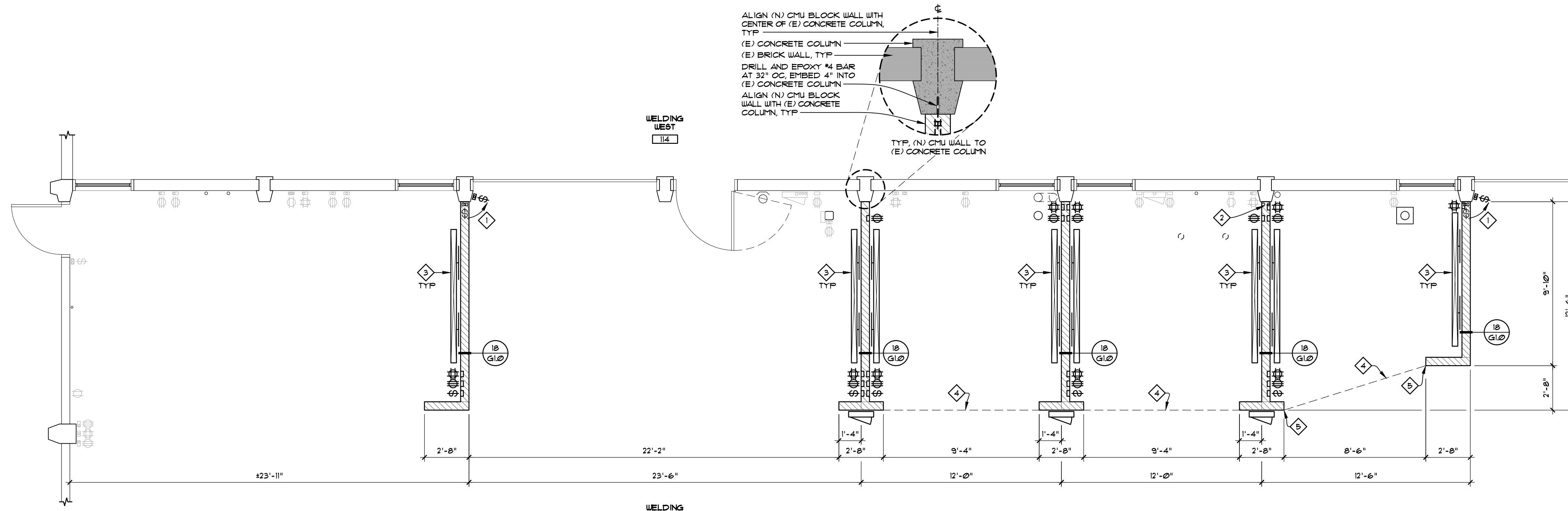
**STRUCTURAL**  
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CONTACT:  
LYNN BURTON (STRUCTURAL ENGINEER)

## INDEX OF DRAWINGS

SHEET	DESCRIPTION
G1.0	COVER PAGE, SITE PLAN, CODE PLAN
E2.0	ELECTRICAL LEGEND
E1.0	ELECTRICAL PLAN / SCHEDULES

## GENERAL STRUCTURAL NOTES

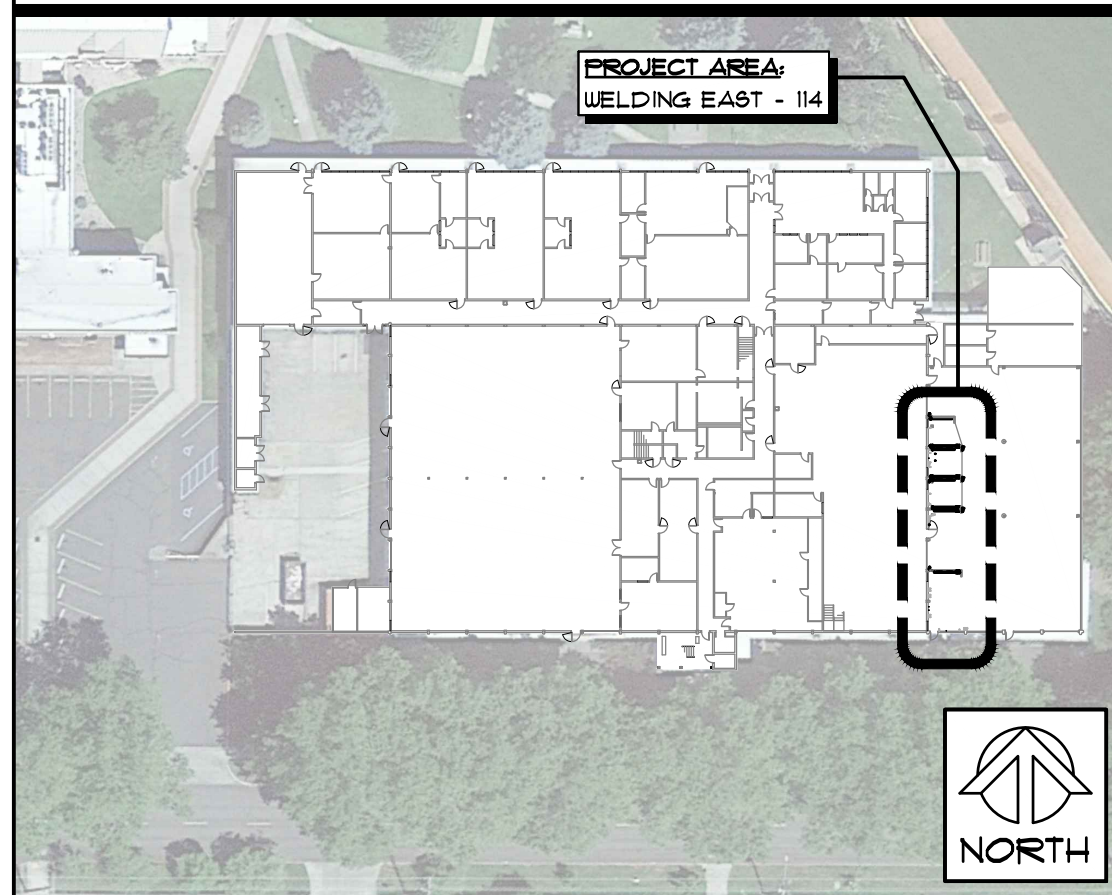
- MASONRY:**
- HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT, RAINING BOND, UNIT COMPRESSIVE STRENGTH 2000PSI.
  - MORTAR SHALL CONFORM TO ASTM C270, TYPE S, 1800 PSI MIN. MASONRY CEMENT SHALL NOT BE USED.
  - GROUT SHALL CONFORM TO ASTM C416, 2000 PSI MIN. MECHANICALLY VIBRATE GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING. PROVIDE CLEANOUTS OF GROUT POUR HEIGHT EXCEEDS 5'-4".
  - MAXIMUM GROUT LIFT SHALL BE 5'-4".
- REINFORCING:**
- DEFORMED BARS: ASTM A3615 GRADE 40 FOR #3 AND #4
- EPOXY:**
- EPOXY DOUELS IN CONCRETE/CMU TO BE SIMPSON SET-XP OR HITI HY-210 OR EQUAL, INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 3RD PARTY CONSTRUCTION TESTING:**
- LCSC TO CONTRACT 3RD PARTY TESTING AGENCY TO PROVIDE CONSTRUCTION OBSERVATION AND REPORTING FOR CMU REINFORCEMENT AND EPOXY DOUELS.



## WELDING BOOTH PLAN

SCALE: 1/4" = 1'-0"

## BUILDING KEY



## FLOOR PLAN REFERENCE NOTES

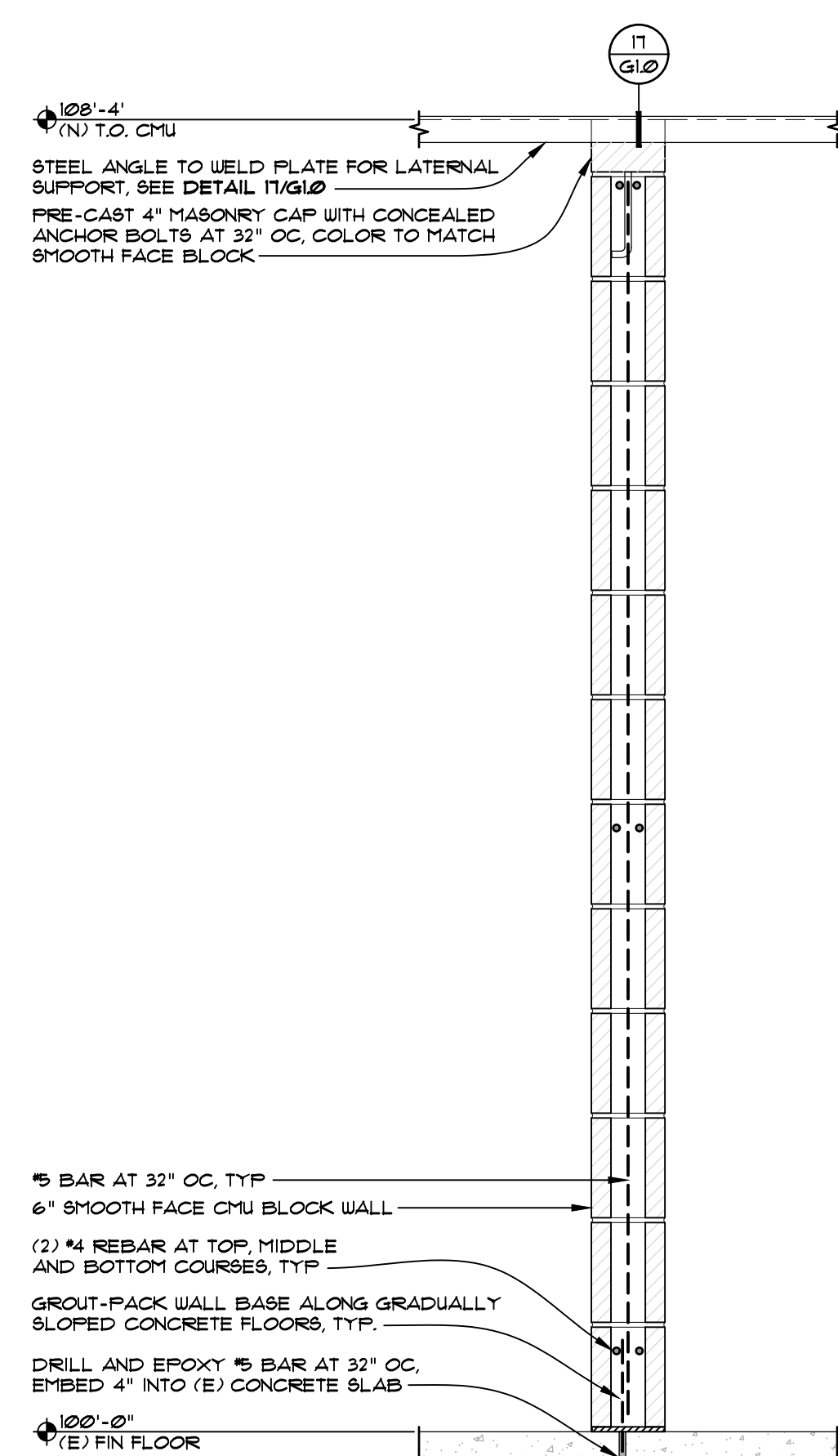
- ELEC - RELOCATE (E) SWITCH IN CONDUIT BOX TO NEW LOCATION, COORDINATE WITH ELECTRICAL.
- (2) EXISTING AIR / GAS LINE(S), CUT/CAP ABOVE (N) CMU WALL HEIGHT.
- ELEC - (N) WALL MOUNTED LIGHT, COORDINATE WITH ELECTRICAL.
- OVERHEAD METAL ANGLE CURTAIN TRACK, SEE DETAIL 17/G1.0
- NOTCH VERTICAL LEG OF STEEL ANGLE WHERE ANGLED OVER WALL, EACH END
- (N) CMU WALL REINFORCED CORNER(S), SEE DETAIL 16/G1.0, TYP

**GENERAL NOTE:**  
REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL REQUIREMENTS

## SYMBOL KEY

	(N) - NEW

**NOTE:**  
SEE ELECTRICAL DRAWING FOR ALL ELECTRICAL WORK



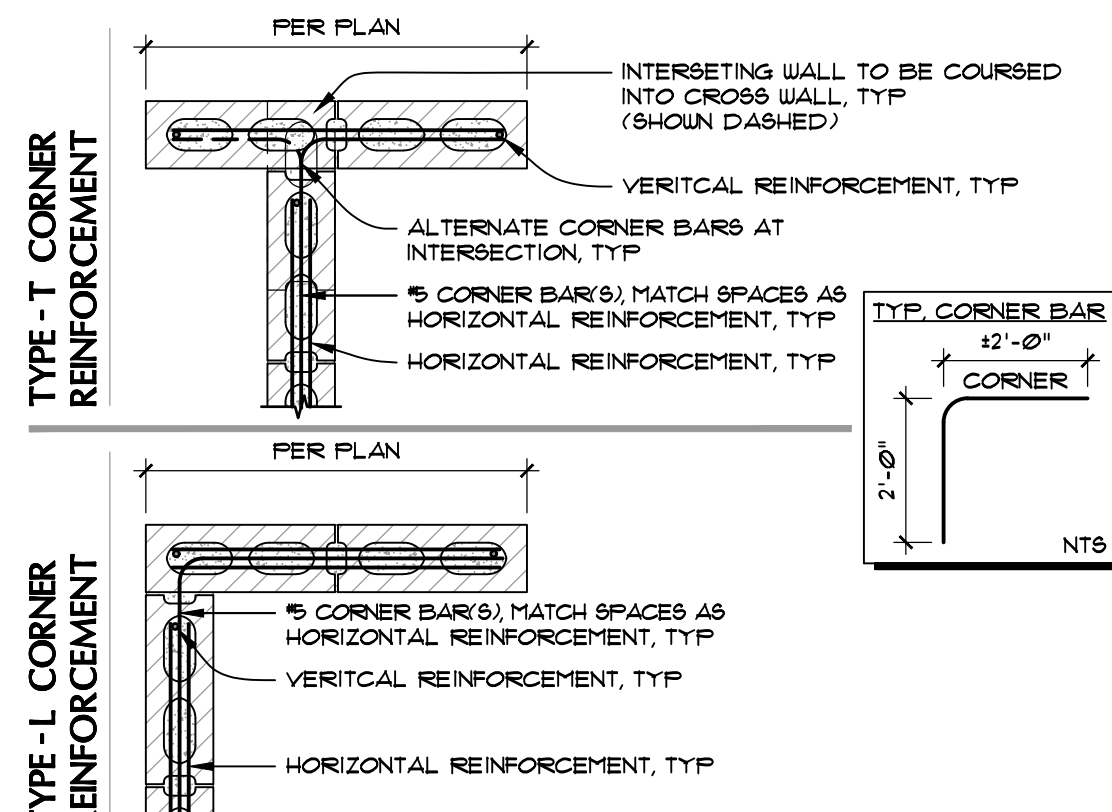
18 TYP, WALL SECTION

SCALE: 1" = 1'-0"

## GENERAL PROJECT NOTES

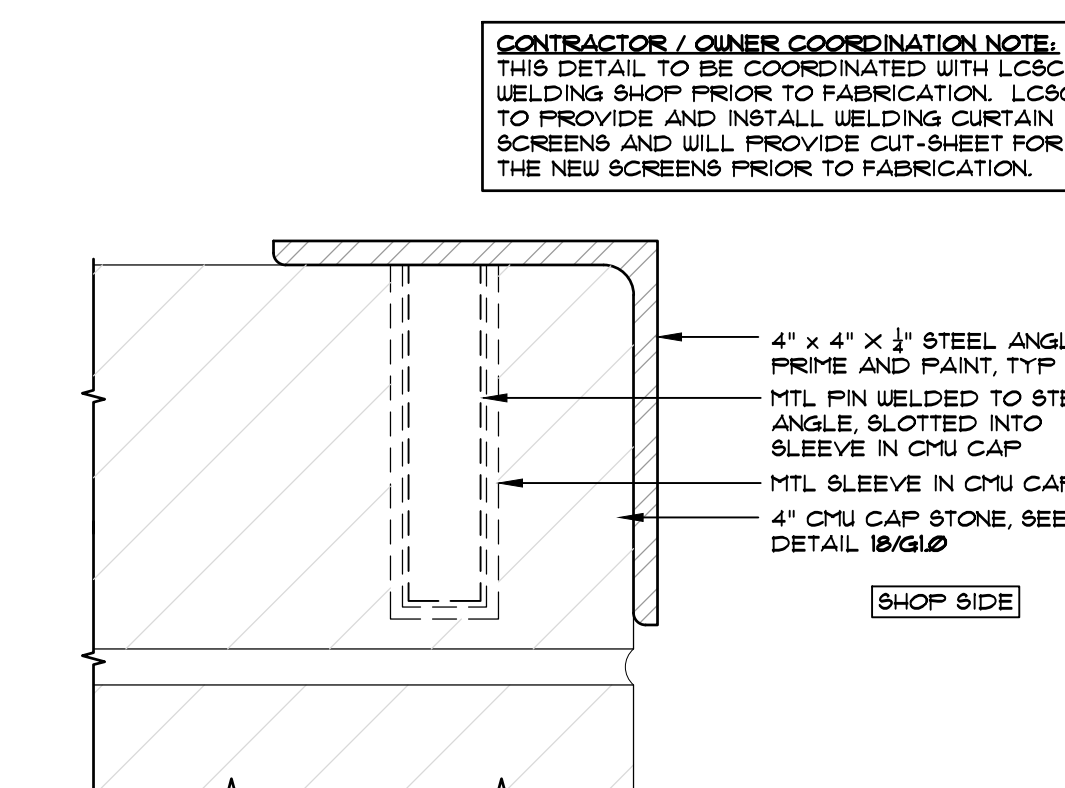
- DRAWINGS ARE DIAGNOSTIC IN NATURE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO TIE THE PROJECT TOGETHER INTO A COMPLETE WHOLE.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY 4 ALL DISCREPANCIES FOR RESOLUTION OR EXPLANATION.
- CONTRACTOR SHALL CHECK ALL DIMENSIONS 4 REPORT ALL ERRORS 4 OMISSIONS TO ARCHITECT. DIMENSIONS ARE TO BE FIELD VERIFIED W/ EXIST. CONDITIONS. ADJUST DIM'S AS REQ'D TO MEET THE DESIGN INTENT 4 CODE REQ'S.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR TO COORD. WITH DRAWINGS CAREFULLY FOR WORK PERFORMED BY OWNER OR NOT IN CONTRACT (N/C).
- COORDINATE ALL NEW FIXTURES, FINISH MATERIALS AND COLORS WITH THE OWNER PRIOR TO INSTALLATION.
- ALL PROJECT CONSTRUCTION TO MEET CURRENT ANSI AND ADA-AG REQUIREMENTS INCLUDING SIGNAGE, DOOR HARDWARE, CLEARANCES AND OTHER REQUIREMENTS FOR EACH ACCESSIBLE FEATURE, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- ALL CONSTRUCTION TO BE TO CURRENT ADOPTED CODES AND REGULATIONS OF JURISDICTIONS HAVING AUTHORITY OVER THIS PROJECT. ALL MATERIALS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
  - INTERNATIONAL BUILDING CODE - 2018 ED. W/ AMENDMENTS
  - INTERNATIONAL ENERGY CONSV. CODE - 2018 ED. W/ AMENDMENTS
  - INTERNATIONAL EXIST. BLDG CODE - 2018 EDITION
  - INTERNATIONAL MECHANICAL CODE - 2018 EDITION
  - INTERNATIONAL FUEL GAS CODE - 2018 EDITION
  - UNIFORM PLUMBING CODE - 2018 EDITION (2011 I.B.P.C.)
  - NATIONAL ELECTRICAL CODE - 2011 ED. W/ AMENDMENTS
  - INTERNATIONAL FIRE CODE - 2018 EDITION
  - ANSI (CC A111) - 2009 (ACCESSIBILITY REQ'S)
  - DOJ ADA STANDARDS - 2010 EDITION
- PROVIDE ADEQUATE TEMPORARY SUPPORT 4 BRACING TO ALL WALLS, COLUMNS, BEAMS, JOISTS, STAIRS, ETC. AT LOCATIONS OF DEMOLITION OR MOD'S UNTIL NEW WORK IS PERMANENTLY INSTALLED.
- PROVIDE BLOCKING IN WALLS FOR ALL ACCESSORIES.
- ALL WALLS EXTEND TO STRUCTURE UNO.
- CONTRACTOR STAGING AND LAY DOWN REQUIREMENTS TO BE COORDINATED WITH AGENCY (DEPT. OF LABOR) PRIOR TO ESTABLISHING STAGING AND LAY DOWN AREAS.
- CONTRACTOR TO PROVIDE PHYSICAL "PLASTIC" DUST-PROOF BARRIER SEPARATING CONSTRUCTION ACTIVITIES FROM THE REST OF BUILDING AS REQ'D PROVIDE "NEGATIVE PRESSURE" VENTING AT ALL TIMES.
- PROVIDE BARRIERS, FLAG PERSONNEL, FLASHERS, ETC. FOR THE PROTECTION OF THE PUBLIC WHEN NECESSARY DURING CONSTRUCTION, BOTH DURING AND AFTER HOURS.
- CONTRACTOR TO PROVIDE SIGNAGE 4 PHYSICAL BARRIERS TO SEPARATE OWNER EMPLOYEES 4 CUSTOMERS FROM ALL WORK.
- CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
- WORK DAMAGES TO BE RESTORED BY CONTRACTOR.
- REMOVED CONSTRUCTION DEBRIS, ETC. TO BE REMOVED FROM SITE 4 LEGALLY DISPOSED OF BY CONTRACTOR OFF SITE AT AN APPROVED DISPOSAL FACILITY.
- COORDINATE KEYING REQUIREMENTS WITH THE AGENCY.
- ALL ACCESSIBLE SIGNAGE TO MEET ADA REQ'S.

**DRAWING FORMAT:**  
FULL-SIZE DRAWING SIZE = 22" x 34"  
HALF-SIZE DRAWING SIZE = 11" x 17"



16 TYP, CMU WALL REINF. AT CORNER

SCALE: 3/4" = 1'-0"



17 TYP, CURTAIN SUPPORT DETAIL

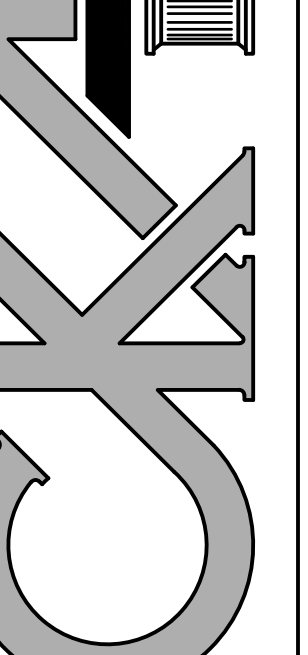
SCALE: 6" = 1'-0"



REVISIONS
DATE: 03/12/2026 DRAWN: DJG CHECKED: BLL CKA PROJ. NO: 26021 DPW PROJ. NO: N/A

CONSULTANTS

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LEWISTON, IDAHO  
1126 MAIN STREET  
OFFICE (208) 746-0183



PROJECT: LEWIS CLARK STATE COLLEGE  
MECHANICAL TECHNICAL BUILDING  
MTB WELDING BOOTHS  
515 11TH AVE - LEWISTON, ID 83501

DRAWING COVER SHEET  
WELDING BOOTH PLAN  
SHEET G1.0

### ELECTRICAL LEGEND - LIGHTING

- REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.
- STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
  - STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
  - WALL MOUNTED LIGHT FIXTURE.
  - WALL MOUNTED LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

### DEVICES

- SX SWITCH, TYPE AS INDICATED. +48" AFF
- 2 DOUBLE POLE
- 3 3-WAY
- 4 4-WAY
- K KEYS
- P PILOT LIGHT
- D DIMMER
- HP HORSEPOWER RATED
- TO THERMAL OVERLOAD
- LV LOW VOLTAGE
- OS OCCUPANCY SENSOR
- OR LOW VOLTAGE, MOMENTARY OVERRIDE
- VS VACUUM SENSOR
- VS SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- SS DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- SSs DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- SSs OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.
- Φ DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- Φ FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
- CONNECTION POINT TO EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
- ⊙ JUNCTION BOX
- ⊠ WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- ⊡ FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
- ⊡ NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO
- T TRANSFORMER
- ▭ PANELBOARD. SEE SCHEDULE FOR TYPE.
- ▭ EQUIPMENT CABINET, SURFACE MOUNTED
- ▭ EQUIPMENT CABINET FLUSH MOUNTED

### ONE LINE

- DELTA WYE TRANSFORMER UNO
- PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
- CIRCUIT BREAKER, SIZE AND POLES INDICATED
- FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
- INTERRUPTER SWITCH, SIZE AND POLES INDICATED
- FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
- GROUND FAULT PROTECTION
- TRANSIENT VOLTAGE SURGE SUPPRESSION
- ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS):  
L'-LONG TIME  
S'-SHORT TIME  
I'-INSTANTANEOUS  
G'-GROUND FAULT  
R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
- GROUND
- SHUNT TRIP COIL
- MOTOR
- DRY TYPE TRANSFORMER

### ELECTRICAL GENERAL NOTES

- A. 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.
  - B. 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.
  - C. 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.
  - E. TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.
  - F. MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- DEMO:
- G. 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 BID.
  - H. ALL ELECTRICAL DEVICES AND WALLS INDICATED ON THE ELECTRICAL DEMOLITION DRAWING(S) ARE TO REMAIN UNLESS OTHERWISE NOTED.

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

### ELECTRICAL ABBREVIATIONS

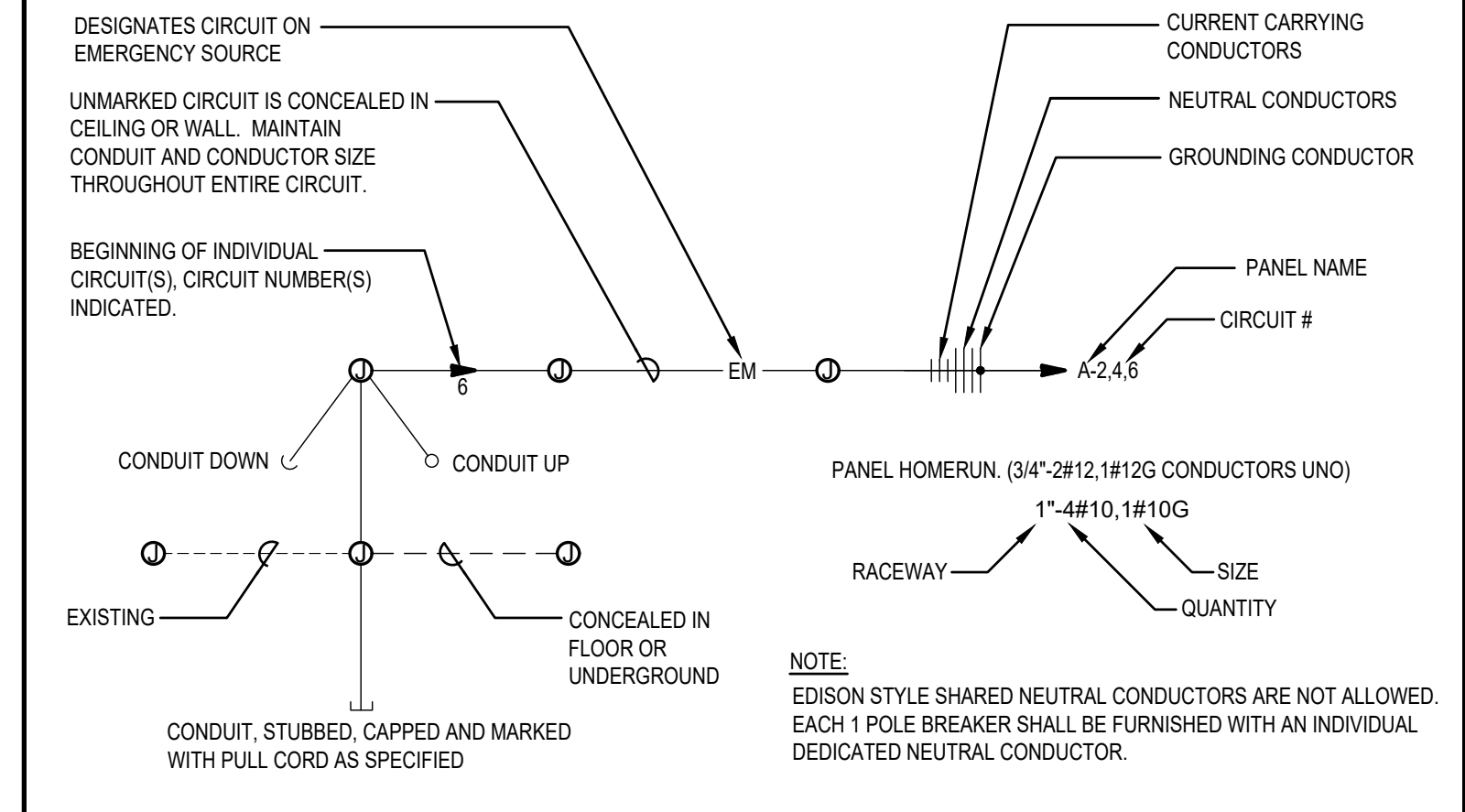
- A AMPERES
  - AC 6" ABOVE BACKSPLASH
  - AFF ABOVE FINISHED FLOOR
  - AFG ABOVE FINISHED GRADE
  - AF AMP FRAME
  - AIC AMPS INTERRUPTING CAPACITY
  - AT AMP TRIP
  - ATS AUTOMATIC TRANSFER SWITCH
  - AWG AMERICAN WIRE GAUGE
  - BD BOTTOM OF DECK
  - BS BOTTOM OF STRUCTURE
  - C CEILING MOUNTED CONDUIT
  - CB CIRCUIT BREAKER
  - CF COMPACT FLUORESCENT
  - CKT CIRCUIT
  - CO CONDUIT ONLY, PROVIDE PULL-LINE
  - CT CURRENT TRANSFORMER
  - CTL CONTROL
  - DC DIRECT CURRENT
  - (D) DEMOLITION
  - DET DETAIL
  - DTT DOUBLE TWIN TUBE
  - E EMERGENCY EXISTING ELECTRICAL CONTRACTOR EMERGENCY LIGHT
  - (E) EXISTING
  - EC ELECTRICAL CONTRACTOR
  - EL EMERGENCY LIGHT
  - F FUSE
  - (F) FUTURE
  - FACP FIRE ALARM CONTROL PANEL
  - GND GROUND
  - GFCI GROUND FAULT CIRCUIT INTERRUPTER
  - GFI GROUND FAULT INTERRUPTER
  - HH HAND HOLE
  - HID HIGH INTENSITY DISCHARGE
  - HOA HAND-OFF-AUTO
  - HPS HIGH PRESSURE SODIUM
  - HVAC HEATING, VENTILATION, & AIR CONDITIONING
  - IG ISOLATED GROUND
  - IPCO IDAHO POWER COMPANY
  - J-BOX JUNCTION BOX
  - KA KILOAMP
  - KVA KILO VOLT-AMP
  - KW KILOWATT
  - KWH KILOWATT HOUR
  - LCP LIGHTING CONTROL PANEL
  - MB MAIN BREAKER
  - MBR MAIN CIRCUIT BREAKER
  - MCC MOTOR CONTROL CENTER
  - MDP MAIN DISTRIBUTION PANEL
  - MLO MAIN LUGS ONLY
  - MMC MODULAR METERING CENTER
  - MH METAL HALIDE
  - MSB MAIN SWITCH BOARD
  - MTG MOUNTING
  - N NEUTRAL
  - (N) NEW
  - NC NORMALLY CLOSED
  - NEC NATIONAL ELECTRICAL CODE
  - NIC NOT IN CONTRACT
  - NL NIGHT LIGHT
  - NO NORMALLY OPEN
  - NTS NOT TO SCALE
  - OH OVERHEAD
  - OS OCCUPANCY SENSOR
  - P POLES
  - PC PHOTO CONTROL
  - PVC POLYVINYL CHLORIDE
  - PWR POWER
  - RE: REFERENCE
  - REC RECEPTACLE
  - (R) RELOCATED
  - SF SQUARE FEET
  - TBD TO BE DETERMINED
  - TDR TIME DELAY RELAY
  - TK TOE KICK
  - TSP TWISTED SHIELDED PAIR
  - TRT TRIPLE TUBE
  - TTB TELEPHONE TERMINAL BOARD
  - (TYP.) TYPICAL
  - UC UNDERCABINET
  - UG UNDERGROUND
  - U.N.O. UNLESS NOTED OTHERWISE
  - V VOLT
  - VA VOLT-AMPERE
  - W WATT
  - WG WIRE GUARD
  - WP WEATHER PROOF/NEMA 3R
  - PROVIDED/ PROVIDE AND INSTALL / PROVIDED AND PROVIDE BY INSTALLED BY / PROVIDED AND INSTALL INSTALLED/ INSTALL
- NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

### 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 SYSTEMS.
- C. 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.
- E. 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 PLANS.
- F. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
- G. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN.
- H. 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.
- I. 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.
- J. ALL ELECTRICAL DEVICES AND TERMINALS SHALL BE RATED 75°C MINIMUM.
- K. 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 SYSTEM	480Y/277 VOLT 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
- L. MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUITS SHALL BE #12 AWG. ALL POWER AND LIGHTING CONDUCTORS SHALL BE ROUTED IN 3/4" CONDUIT MINIMUM.
- 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 WALLS.
- P. 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.
- S. 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.
- T. ALL 1 POLE BREAKER CIRCUITS SHALL HAVE AN INDEPENDENT NEUTRAL CONDUCTOR. NO EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE ALLOWED.
- U. ALL CONDUCTORS IN ELECTRICAL PANELS, CABINETS AND EQUIPMENT SHALL BE NEATLY TRAINED AND LACED.
- V. 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 DIVISION 1 SPECIFICATIONS.
- X. 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.
- Y. 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.

### CIRCUITING SYMBOLS



### COMcheck Software Version 4.1.5.5 Interior Lighting Compliance Certificate

**Project Information**

Energy Code: 2018 IECC  
 Project Title: LCSC MECH TECH WELDING  
 Project Type: Alteration

Construction Site: \_\_\_\_\_ Owner/Agent: \_\_\_\_\_ Designer/Contractor: \_\_\_\_\_

**Allowed Interior Lighting Power**

Area Category	A Floor Area (ft <sup>2</sup> )	B Allowed Watts / ft <sup>2</sup>	C Allowed Watts (B X C)
1-WELDING BOOTHS (Manufacturing, Detailed Manufacturing)	783	0.93	728
Total Allowed Watts =			728

**Proposed Interior Lighting Power**

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	A	B	C	D	E
	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)	
WELDING BOOTHS ( Manufacturing, Detailed manufacturing 783 sq.ft.) LED 1: WB1: 8' LINEAR: LED Other Fixture Unit 60W:	1	8	81	648	648
Total Proposed Watts =				648	

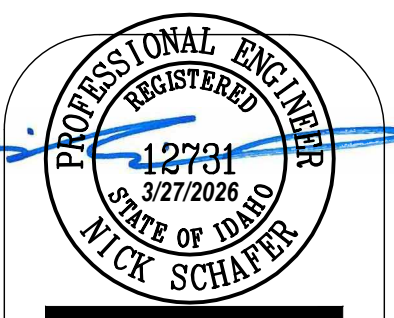
**Interior Lighting PASSES**

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

NICK SCHAFFER, P.E. 3/27/26  
 Name - Title Signature Date

Project Title: LCSC MECH TECH WELDING Report date: 03/26/26  
 Data filename: P:\Files\2026\26102\CALCS\ELEC\26102 Electrical\_Compliance.cck Page 1 of 6

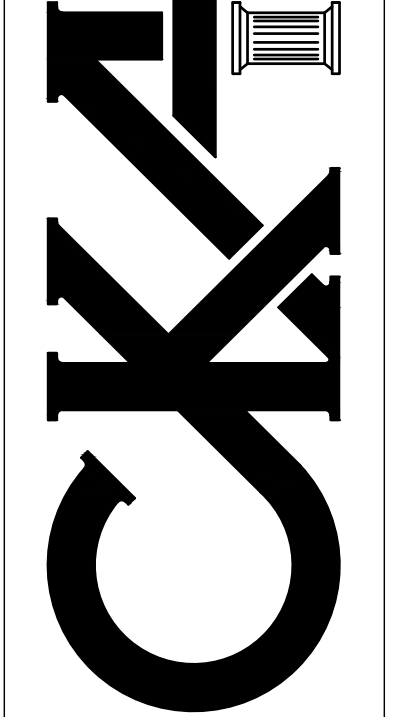


**REVISIONS**

DATE	BY	REVISION
03/27/2026	NJS	DRAWN
	BLL	CHECKED
	CKA	PROJ. NO. 26021
	DPW	PROJ. NO. N/A

**CONSULTANTS**

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PROJECT ♦ LEWIS CLARK STATE COLLEGE MECHANICAL TECHNICAL BUILDING MTB WELDING BOOTHS  
 515 11TH AVE - LEWISTON, ID 83501

**ELECTRICAL LEGEND**

SHEET ♦ E0.0

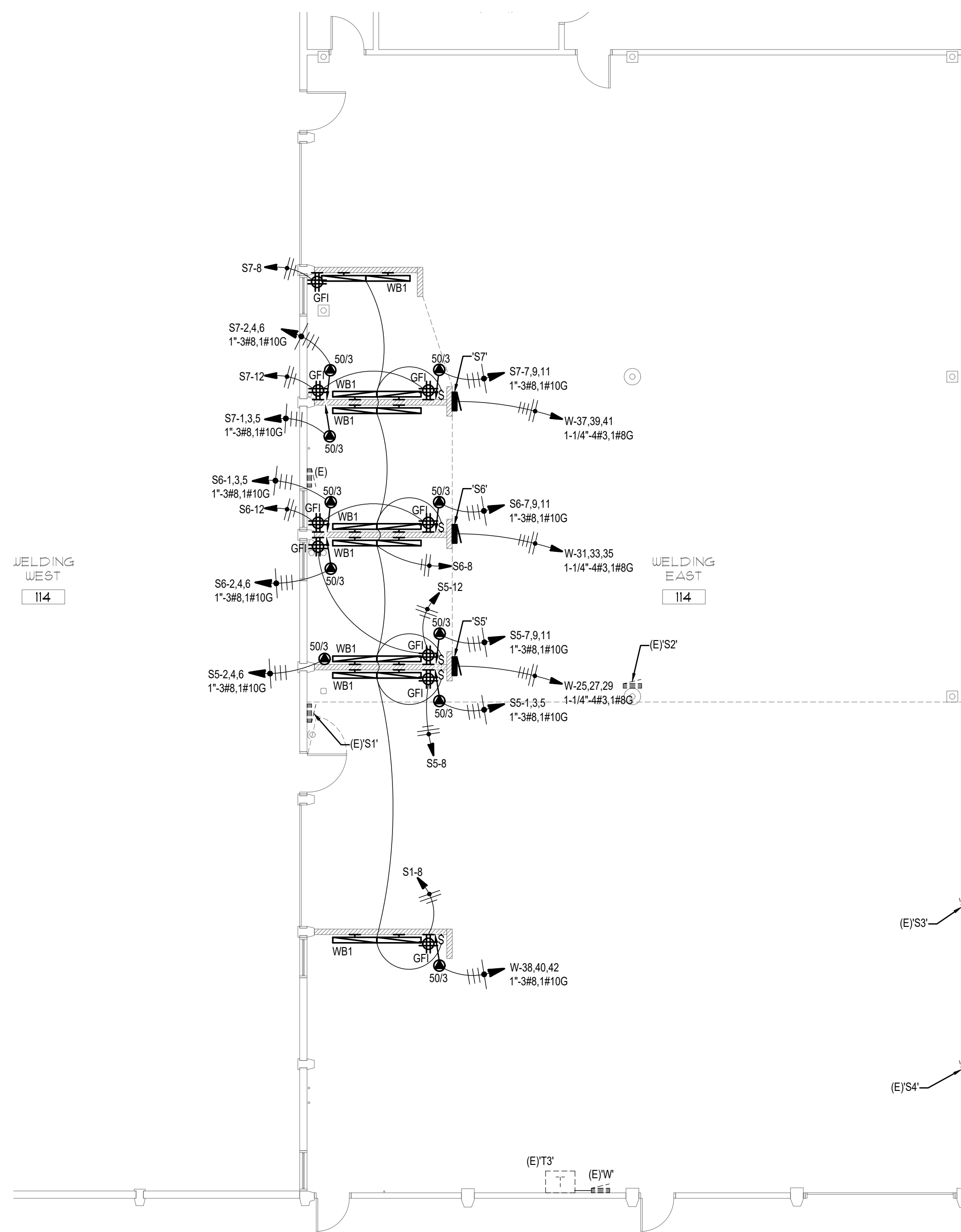
PANEL: W(E)		PROJECT: LCSC WELDING LAB EXPANSION													
VOLTAGE: 240 / 120 V		3 PH		4 WIRE		AMPERE RATING: 225A		WITH 225A		CB		MOUNTING: SURFACE			
BASIS OF DESIGN PANEL TYPE		PANEL BOARD		NEMA ENCLOSURE TYPE: 1		PANEL AIC RATING: 10000 AIC									
CKT NOTES:		REMARKS:													
1. LOAD FOR THIS WELDER IS NONCOINCIDENT WITH THREE PHASE BASED ON 220.60		PANEL IS 3 PHASE DELTA HIGH LEG. PHASE B TO BE THE HIGH LEG AND SHALL NOT BE USED FOR SINGLE PHASE 120V LOADS													
2. NEW BREAKER NEW LOAD															
3. EXISTING BREAKER EXISTING LOAD															
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT	
1	(E)WELDING PANEL S1	3	3670	30.6	**	A	B	C	50	3	27.6	3310	3	3P WELDING CONNECTION (415V)	2
3	***	3	3310	27.6	**	6620			**	**	27.6	3310	3	***	4
5	***	3	3670	30.6	**			6980	**	**	27.6	3310	3	***	6
7	(E)WELDING PANEL S2	3	3310	27.6	80	3310			50	2	0.0		1.3	1P WELDING CONNECTION (240V)	8
9	***	3	3310	27.6	**				**	**	0.0		1.3	***	10
11	***	3	3670	30.6	**			6980	50	3	27.6	3310	3	3P WELDING CONNECTION (415V)	12
13	(E)WELDING PANEL S3	3	3310	27.6	80	6620			**	**	27.6	3310	3	***	14
15	***	3	3310	27.6	**	6620			**	**	27.6	3310	3	***	16
17	***	3	3670	30.6	**			3670	50	2	0.0		1.3	1P WELDING CONNECTION (240V)	18
19	(E)WELDING PANEL S4	3	3310	27.6	80	3310			**	**	0.0		1.3	***	20
21	***	3	3310	27.6	**	6620			50	3	27.6	3310	3	3P WELDING CONNECTION (415V)	22
23	***	3	3670	30.6	**			6980	**	**	27.6	3310	3	***	24
25	WELDING PANEL S5	2	3670	30.6	80	3			**	**	27.6	3310	3	***	26
27	***	2	3310	27.6	**	3310			50	2	0.0		1.3	1P WELDING CONNECTION (240V)	28
29	***	2	4030	33.6	**			4030	**	**	0.0		1.3	***	30
31	WELDING PANEL S6	2	7120	59.3	80	3	7480		20	1	3.0	360	3	REC-QUAD	32
33	***	2	6620	55.2	**	6620					0.0			BLANK	34
35	***	2	7340	61.2	**			7700	20	1	3.0	360	3	REC-QUAD	36
37	WELDING PANEL S7	2	6980	58.2	80	3	10290		50	3	27.6	3310	2	WELDER 3 PHASE	38
39	***	2	6620	55.2	**			9930	**	**	27.6	3310	2	***	40
41	***	2	7340	61.2	**				**	**	27.6	3310	2	***	42
						44970.0	43030.0	46990.0	VA						
						374.8	358.6	391.6	AMPS			134990 TOTAL VA			

PANEL W DEMAND CALCULATIONS														
FEEDER	VOLTAGE	CONNECTED LOAD (KVA)								TOTAL CONNECTED LOAD		TOTAL DEMAND LOAD		
		LIGHTING	RECEP	MOTORS	4TH WELDER	3RD WELDER	2 LARGE WELDERS	WELDER	MISC	EXIST	KVA	AMPS	KVA	AMPS
W	120/240	0.0	0.7	0.0	9.9	9.9	19.9	94.6	0.0	0.0	135.0	325.3	92.7	223.4

PANEL: S5		PROJECT: LCSC WELDING LAB EXPANSION													
VOLTAGE: 240 / 120 V		3 PH		4 WIRE		AMPERE RATING: 100A		WITH 100A		MLO		MOUNTING: SURFACE			
BASIS OF DESIGN PANEL TYPE		PANEL BOARD		NEMA ENCLOSURE TYPE: 1		PANEL AIC RATING: 10000									
CKT NOTES:		REMARKS:													
1. PROVIDE GFCI BREAKER		PANEL IS 3 PHASE DELTA HIGH LEG. PHASE B TO BE THE HIGH LEG AND SHALL NOT BE USED FOR SINGLE PHASE 120V LOADS													
2. LOAD FOR THIS WELDER IS NONCOINCIDENT WITH THREE PHASE BASED ON 220.60															
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT	
1	3P WELDING CONNECTION	1,2		0.0	50	3	0			50	3	0.0	1,2	3P WELDING CONNECTION	2
3	***	1,2		0.0	**		0		**	**	0.0		1,2	***	4
5	***	1,2		0.0	**				**	**	0.0		1,2	***	6
7	3P WELDING CONNECTION	1	3310	27.6	50	3	3670		20	1	3.0	360		REC-QUAD	8
9	***	1	3310	27.6	**		3310		**	**				***	10
11	***	1	3310	27.6	**			4030	20	1	6.0	720		REC-QUAD	12
						3670.0	3310.0	4030.0	VA						
						30.6	27.6	33.6	AMPS			11010 TOTAL VA			

PANEL: S6		PROJECT: LCSC WELDING LAB EXPANSION													
VOLTAGE: 240 / 120 V		3 PH		4 WIRE		AMPERE RATING: 100A		WITH 100A		MLO		MOUNTING: SURFACE			
BASIS OF DESIGN PANEL TYPE		PANEL BOARD		NEMA ENCLOSURE TYPE: 1		PANEL AIC RATING: 10000									
CKT NOTES:		REMARKS:													
1. PROVIDE GFCI BREAKER		PANEL IS 3 PHASE DELTA HIGH LEG. PHASE B TO BE THE HIGH LEG AND SHALL NOT BE USED FOR SINGLE PHASE 120V LOADS													
2. LOAD FOR THIS WELDER IS NONCOINCIDENT WITH THREE PHASE BASED ON 220.60															
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT	
1	3P WELDING CONNECTION	1,2		0.0	50	3	3310		50	3	23.9	3310	1,2	3P WELDING CONNECTION	2
3	***	1,2		0.0	**		3310		**	**	23.9	3310	1	***	4
5	***	1,2		0.0	**			3310	**	**	23.9	3310	1	***	6
7	3P WELDING CONNECTION	1	3310	27.6	50	3	3810		20	1	4.2	500		LIGHTS	8
9	***	1	3310	27.6	**		3310		**	**				***	10
11	***	1	3310	27.6	**			4030	20	1	6.0	720		REC-QUAD	12
						7120.0	6620.0	7340.0	VA						
						59.3	55.2	61.2	AMPS			21080 TOTAL VA			

PANEL: S7		PROJECT: LCSC WELDING LAB EXPANSION													
VOLTAGE: 240 / 120 V		3 PH		4 WIRE		AMPERE RATING: 100A		WITH 100A		MLO		MOUNTING: SURFACE			
BASIS OF DESIGN PANEL TYPE		PANEL BOARD		NEMA ENCLOSURE TYPE: 1		PANEL AIC RATING: 10000									
CKT NOTES:		REMARKS:													
1. PROVIDE GFCI BREAKER		PANEL IS 3 PHASE DELTA HIGH LEG. PHASE B TO BE THE HIGH LEG AND SHALL NOT BE USED FOR SINGLE PHASE 120V LOADS													
2. LOAD FOR THIS WELDER IS NONCOINCIDENT WITH THREE PHASE BASED ON 220.60															
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT	
1	3P WELDING CONNECTION	1	3310	27.6	50	3	3310		50	3	0.0	1,2	3P WELDING CONNECTION	2	
3	***	1	3310	27.6	**		3310		**	**	0.0	1,2	***	4	
5	***	1	3310	27.6	**			3310	**	**	0.0	1,2	***	6	
7	3P WELDING CONNECTION	1	3310	27.6	50	3	3670		20	1	3.0	360		REC-QUAD	8
9	***	1	3310	27.6	**		3310		**	**				***	10
11	***	1	3310	27.6	**			4030	20	1	6.0	720		REC-QUAD	12
						6980.0	6620.0	7340.0	VA						
						58.2	55.2	61.2	AMPS			20940 TOTAL VA			



NORTH  
  
**ELECTRICAL PLAN - MECH TECH BUILDING**  
 SCALE 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE (26-102)						
TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY NOTES
WB1	8' LINEAR SURFAC MOUNTED FROSTED ACRYLIC DIFFUSER, WIRE GUARD	WALL SURFACE +96" AFF	LED 4000K	81W	LITHONIA NO. TZL1D-L96-10000LM-FST-MVOLT-40K-90CRI-WH PROVIDE WITH (2)WVGZ48	COLUMBIA METALLUX H.E. WILLIAMS 1

LIGHTING FIXTURE SCHEDULE NOTES:  
 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.

REVISIONS

DATE: 03/12/2026  
 DRAWN: NSJ  
 CHECKED: BLL  
 CKA PROJ. NO: 26021  
 DPW PROJ. NO: N/A

CONSULTANTS

CASTELLAW ♦ KOM ♦ ARCHITECTS  
 1126 MAIN STREET  
 LEWISTON, IDAHO  
 OFFICE (208) 746-0183

PROJECT: LEWIS CLARK STATE COLLEGE  
 MECHANICAL TECHNICAL BUILDING  
 MTB WELDING BOOTHS  
 515 11TH AVE - LEWISTON, ID 83501

DRAWING: ELECTRICAL PLAN / SCHEDULES  
 SHEET: E1.0