

## ADDENDUM NO. 3

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Renovate Paint and Blast Booths and Install Solar Array  
Ike Skelton Training Site  
Jefferson City, Missouri  
PROJECT NO.: T1921-01

**Bid Opening Date: 1:30 PM, Thursday, June 25, 2020 (Not Changed)**

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

### **SPECIFICATION CHANGES:**

1. SECTION 26300 – PHOTOVOLTAIC COLLECTOR
  - a. PART 2 – PRODUCTS – **ADD** additional manufacturer to subsection 2.1-A:  
**6. Silfab Solar – SIL-380 NT**
2. SECTION 133424 – PAINT BOOTHS
  - a. PART 2 – PRODUCTS – **ADD** manufacturer to subsection 2.1 Manufacturers:  
**E. Global Finishing Solutions**
3. SECTION 083360 – COILING OVERHEAD DOORS
  - a. PART 2 – PRODUCTS – **ADD** manufacturer to subsection 2.1 Manufacturers:  
**C. Alpine Wind-Tite**
4. SECTION 211313 – FIRE SUPPRESSION SYSTEM PERFORMANCE SPEC
  - a. PART 1 – GENERAL, 1.02 – **ADD painting mixing room** to subsection B DESCRIPTION OF WORK.
5. SECTION 133426 - PAINT MIX ROOM
  - a. PART 2 – PRODUCTS, 2.3 FABRICATED PAINT MIX ROOM, **DELETE** item “I” in its entirety.  
**~~I. Electrical Power Service: Provide ½” 120V solenoid valve with booth. Reference Electrical specifications for further information.~~**
6. SECTION 133426 - PAINT MIX ROOM
  - a. PART 2 – PRODUCTS, 2.3 FABRICATED PAINT MIX ROOM, **DELETE** item “L” in its entirety.

~~L. A manometer shall be provided with the unit to monitor the filter resistance and thereby offer a visual indicator of the filter's life and efficiency.~~

7. SECTION 133424 - PAINT BOOTHS

- a. PART 2 – PRODUCTS, 2.3 FABRICATED STEEL PAINT BOOTH, **DELETE** item “R” in its entirety and **ADD** the following:

*R. Finish: Immediately after cleaning and pretreating, apply manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat. Color White.*

8. SECTION 133424 - PAINT BOOTHS

- a. PART 2 – PRODUCTS, 2.3 FABRICATED STEEL PAINT BOOTH, **DELETE** item “S” in its entirety and **ADD** the following:

*S. Provide and install hydraulic or pneumatic man lift (one on each side of booth), 3 axis travel, maximum lift height of 8’, control valves located on the front of basket, basket maximum capacity of 500 lbs, Basis of Design: Titan Lifts (TL-8), equivalent manufacturers: LPI Lift Systems, Accudraft. Contractor to provide a complete installation of hydraulic or pneumatic 3-axis man lift so it is fully functional with all necessary components and installation.*

**DRAWING CHANGES:**

1. DRAWING E-103 – ELECTRICAL LIGHTING PLAN: Detail 3, EF-8 WIRING DIAGRAM

- a. **DELETE** Detail 3, EF-8 Wiring Diagram in its entirety. **ADD** switch to control EF-8; **ADD** the following keynote #16:

**16. PROVIDE SWITCH AT THIS LOCATION FOR EF-8 IN MIXING ROOM.**

**\*Reference SK-1 & SK-4 attached to this addendum\***

2. DRAWING E-103 – ELECTRICAL LIGHTING PLAN

- a. **ADD** the following general note to the sheet:

**GENERAL NOTE: PANEL “EL” LOCATED IN ELECTRICAL ROOM 118 IS LOCATED IN CENTER CORE AREA OF FACILITY.**

**\*Reference SK-1 attached to this addendum\***

3. DRAWING E-103 – ELECTRICAL LIGHTING PLAN, BASIS OF DESIGN – LIGHTING FIXTURE SCHEDULE

- a. **DELETE** the following light fixture types in their entirety:

**Fixture Types H and J: These fixtures are not used within the scope of this project.**

**\*Reference SK-1 attached to this addendum\***

4. DRAWING E-103 – ELECTRICAL LIGHTING PLAN

- a. **ADD** “NL” and update symbol to reflect night light circuit for fixture type “B” over ADA stall in MEN 10 and WOMEN 11. Fixtures are to be circuited to existing night light circuit from panel “EL”.

**\*Reference SK-2 attached to this addendum\***

5. DRAWING E-103 – ELECTRICAL LIGHTING PLAN, BASIS OF DESIGN – LIGHTING FIXTURE SCHEDULE

- a. **DELETE** type “K” light fixture on lighting fixture schedule and **ADD** type “K” light fixture as **Eaton WPSLED-30GL-UNV**.

**\*Reference SK-1 attached to this addendum\***

6. DRAWING E-103 – ELECTRICAL LIGHTING PLAN

- a. **DELETE** night light fixture type “C” in weld shop and **ADD** night light fixture type “CE”.

**\*Reference SK-2 attached to this addendum\***

7. DRAWING E-103 – ELECTRICAL LIGHTING PLAN

- a. **ADD** (1) fire alarm horn/strobe notification appliance to Machine Shop 08 and (1) to Prep Bay Expansion 05A; **ADD** (1) fire alarm strobe notification appliance to Men 10 and (1) to Women 11; **ADD** the following keynote #17:

**17. PROVIDE FIRE ALARM NOTIFICATION APPLIANCES AT THIS LOCATION. CONTRACTOR TO PROVIDE LAYOUT AND DESIGN FROM FIRE ALARM DESIGNER THAT IS NICETT III CERTIFIED. NOTIFICATION DEVICES ARE TO BE CIRCUITED TO EXISTING FIRE ALARM PANEL LOCATED OUTSIDE ELECTRICAL 118 IN THE CORRIDOR. PROVIDE PULL STATION WITH HORN/STROBE AT EACH NEW EXIT.**

**\*Reference SK-1, SK-2 & SK-3 attached to this addendum\***

8. DRAWING E-103 – ELECTRICAL LIGHTING PLAN

- a. **ADD** the following keynote #15:

**15. ELECTRICAL CONTRACTOR TO RE-USE EXISTING CIRCUIT FROM PANEL “EL” MADE AVAILABLE FROM DEMO WORK.**

**\*Reference SK-1 & SK-2 attached to this addendum\***

9. DRAWING E-103 – ELECTRICAL LIGHTING PLAN

- a. **ADD** (2) Emergency wall mounted fixtures type E and existing keyed note #2 to the Exist. Wash Bay; **ADD** new keyed note #18:

**18. PROVIDE EMERGENCY LIGHT FIXTURE TYPE "E" WITH "WPVS" OPTION FOR WATERPROOF PROTECTION OF FIXTURE.**

***\*Reference SK-1 & SK-4 attached to this addendum\****

**10. DRAWING E-103 – ELECTRICAL LIGHTING PLAN, BASIS OF DESIGN – LIGHTING FIXTURE SCHEDULE**

- a. **ADD** the following fixture types to the lighting fixture schedule:

**Type "X" fixture: Lithonia LHQM**

**Type "L" fixture: Lithonia JEBL-12L-40K-80CRI-WH**

**Type "CE" fixture: Eaton UHB-12-UNV-L850-CD-U-EL14W**

Note: Type "L" fixture is in the existing wash bay.

***\*Reference SK-1 & SK-4 attached to this addendum\****

**11. DRAWING E-102 – ELECTRICAL POWER FLOOR PLAN**

- a. **ADD** circuit location L3-37, 39, 41 for BAND SAW; **ADD** circuit location P3-105 for SMALL DRILL PRESS; **ADD** circuit location P3-119 for WASHER MACHINE; **ADD** circuit location P3-121, 123 for SMALL LATHE; **ADD** circuit location P3-115, 117 for LATHE; **ADD** circuit location P3-26, 28 for OUTSIDE WELD RECEPTACLE.

***\*Reference SK-5 attached to this addendum\****

**12. DRAWING E-102 – ELECTRICAL POWER FLOOR PLAN**

- a. **ADD** the following keynote #29 referencing the Paint Mix Room under detail 1/E102:

**29. PROVIDE CLASS 1 / DIVISION 2 RECEPTACLES WITH GRC CONDUIT AND SEAL-OFFS.**

***\*Reference SK-6 attached to this addendum\****

**13. DRAWING E-601 – ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM**

- a. PANEL P5: **DELETE** circuits 26, 28, 30 BAND SAW/MACHINE SHOP 702 and **ADD "SPARE"** at circuits 26, 28, 30. New band saw is 460V/3PH; **ADD** band saw to circuit **L3-37, 39, 41**.

Note: Circuit L3-37 PAINT DRYING LTS has been relocated to L3-36 to provide adequate space for new band saw on panel L3.

**14. DRAWING E-601 – ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM**

- a. PANEL L3: **UNBOLDEN** circuits 19, 21, 23 ELECTRIC UNIT HEATERS; **UNBOLDEN** circuits 25, 27, 29 PAINT BAY ELECTRIC UNIT HEATERS

Note: Electric unit heaters are existing to remain.

**15. DRAWING E-601 – ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM**

- a. PANEL P3: **DELETE** circuits 119, 121, 123 WASHER MACHINE SHOP and **ADD WASHER MACHINE SHOP** to circuit 119. Washer is 120V/1PH and not 208/3PH; **ADD SMALL LATHE** to circuits 121, 123.

16. DRAWING E-601 – ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM

- a. PANEL L3: **UNBOLDEN** circuits 30, 32 WELD RECEPTACLES  
Note: Weld receptacles are existing to remain.

17. DRAWING A-102 – FLOOR PLAN

- a. **ADD** the following general note #10:

**10. PAINT AND BLAST BOOTHS SHALL NOT HAVE GREATER THAN 4" THICKNESS FOR PANELS. REFERENCE SPECIFICATIONS FOR OVERALL DIMENSIONAL REQUIREMENTS.**

18. DRAWING P-404 – ENLARGED PLUMBING PLANS

- a. **DELETE** keyed note D in its entirety and **ADD** keyed note D as follows:

**D. 2-1/2" GAS CONNECTION TO EXISTING 4" GAS PIPE. 2-1/2" CONNECTION TO MAU-4. MINIMUM OF 2 PSI GAS PRESSURE (IFGC 2015 402.4(4)). ROOF PENETRATION AS SHOWN. INSTALL GAS TRAIN COMPONENTS AS SHOWN ON DETAIL 1/P-601.**

19. DRAWINGS P-404 – ENLARGED PLUMBING PLANS

- a. **ADD** the following general note to detail 1:

**GENERAL NOTE: CONTRACTOR SHALL UTILIZE ADJACENT AVAILABLE BREATHABLE AIR LINES FOR EXTENSION TO THE PAINT BOOTH. MINIMUM OF 2 BREATHABLE AIR DROPS REQUIRED FOR PAINT BOOTH.**

20. DRAWING A-401 – ENLARGED LOCKER ROOMS PLANS AND ELEVATIONS

- a. TOILET ACCESSORIES LEGEND: **DELETE** OS9 AIR SHOWER UNDER "OWNER SUPPLIED" ITEMS AND **ADD AIR SHOWER** AS ITEM "L" (GENERAL CONTRACTOR SUPPLIED). REFERENCE SPECIFICATIONS FOR AIR SHOWER REQUIREMENTS.

**ATTACHMENTS:**

1. SK-1, SK-2, SK-3, SK-4, SK-5, SK-6

June 18, 2020

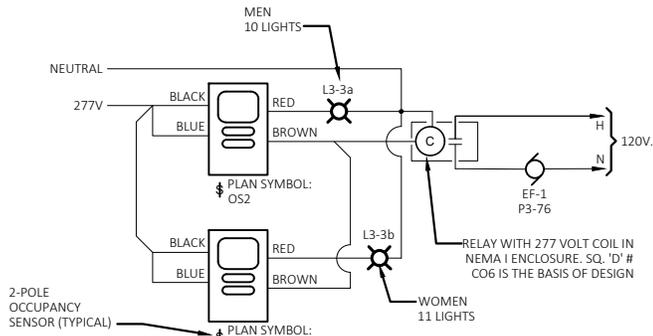
END ADDENDUM NO. 3

## BASIS OF DESIGN - LIGHTING FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER	CATALOG NO.	LAMP DATA			REMARKS AND MOUNTING HEIGHT TO BOTTOM OF LIGHT FIXTURE	TOTAL WATTS PER FIXTURE
			**	NO.	WATTAGE & LAMPS		
A	EXISTING	N/A			N/A	STRIP LED FIXTURE RE-LOCATED	N/A
B	EATON	4WNLED-LD4-32SL-F-UNV-L840-CD1-U				4L X 8"W X 2.5"D WRAP AROUND LENS, 2800 LUMENS, 4000K	29
	LITHONIA						
	HUBBELL						
C	EATON	LHB-12-UNV-L850-CD-U				24"L X 12"W X 4"D LINEAR LED HIGH BAY, 12,000 LUMENS, 5000K	87
	LITHONIA						
	LSI						
CE	EATON	LHB-12-UNV-L850-CD-U-EL14W				24"L X 12"W X 4"D LINEAR LED HIGH BAY, 12,000 LUMENS, 5000K WITH 14W EMERGENCY BATTERY PACK	87
	LITHONIA						
	LSI						
D	EATON	UHB-12-UNV-L850-CD-U				12" ROUND LED HIGH BAY, 12,000 LUMENS, 5000K	98
	LITHONIA						
	LSI						
E	LITHONIA	ELM6L-UVOLT-LTP				LED EMERGENCY FIXTURE, DAMP LOCATION LISTED, 1100 LUMENS	11
	EATON						
	HUBBELL						
F	LITHONIA	WF6-LED-40K-MW				6" ROUND LED WAFER, 1200 LUMENS, 4000K, WET LOCATION LISTED	13
	EATON						
	LSI						
G	LITHONIA	MSL-4000LM-SBL-MVOLT-GZ10-50K-80CRI-WH				48"L X 10"W X 4"D LINEAR LED LOW BAY, 4,000 LUMENS, 5000K	13
	EATON						
	HUBBELL						
K	EATON	WPSLED-30-GL-UNV				8.5"W X 9"H X 9.5"D EXTERIOR WALL PACK, 3382 LUMENS, 4000K, WET LOCATION LISTED	27
	LITHONIA						
	HUBBELL						
L	LITHONIA	JEBL-12L-40K-80CRI-WH				13" DIAMETER L X 5"H D HIGHBAY, 12000 LUMENS, 4000K, WET LOCATION LISTED	93
	EATON						
	HUBBELL						
X	LITHONIA	LHQM LED				12" x 8" x 2" H EXIT SIGN, DAMP LOCATION LISTED, WALL MOUNT WITH BACK PLATE MOUNTING, REFER TO SHEET E1 FOR NUMBER AND DIRECTION OF ARROWS	3
	EATON						
	HUBBELL						

**NOTE:**

A. PRIOR TO THE INSTALLATION OF ALL EXIT SIGNS AND EMERGENCY LIGHTS, THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE GC AND FIRE DEPARTMENT INSPECTOR THE FINAL APPROVED LOCATIONS.



LOGIC SUMMARY:  
SHOULD EITHER OF THE 2 POLE OCCUPANCY SENSOR SWITCHES IN THE RESTROOMS BE TURNED ON, THEN EF-1 WILL BE ACTIVATED

### EF-1 WIRING DIAGRAM

SCALE: NOT TO SCALE

**GENERAL NOTES:**

A. PANEL "EL" LOCATED IN ELECTRICAL ROOM 118 IS LOCATED IN CENTER CORE AREA OF FACILITY.

**KEYED NOTES:**

- NEW LIGHT FIXTURE SHALL BE INSTALLED IN SAME LOCATION AS EXISTING FIXTURE AND CONNECTED TO EXISTING LIGHTING CIRCUIT.
- EMERGENCY LIGHTING FIXTURE SHALL BE CIRCUITED TO LOCAL EXISTING CIRCUIT FROM PANEL EL.
- EXISTING FIXTURE TO REMAIN.
- CLASS 1, DIV 2 LIGHT FIXTURES SHALL BE SUPPLIED BY PAINT MIXING ROOM SUPPLIER. SUPPLY POWER FROM CIRCUIT LA-11.
- INSTALL NEW LIGHT SWITCH IN LOCATION INDICATED.
- EXISTING LIGHT SWITCH TO REMAIN.
- INSTALL NEW HAZARDOUS LOCATION LISTED LIGHT SWITCH.
- RE-LOCATE LIGHT FIXTURES FROM OLD MACHINE SHOP TO NEW MACHINE SHOP - 08.
- LOWER EXISTING BUG-EYE FIXTURE TO 96" AFF. MODIFY EXISTING CIRCUITRY AS REQUIRED.
- NEW EXTERIOR WALL PACK MOUNTED ABOVE ROLL UP DOOR. EXTEND CIRCUITING FROM OLD WALL PACK LOCATION ON SOUTH WALL.
- EXTEND CIRCUITING FROM NEW WALL PACK ABOVE PREP BAY EXPANSION ROLL UP DOOR.
- SWITCH TO OPERATE EF-3 IN CLOSED POSITION. LABEL SWITCH AS "MACHINE SHOP VENTILATION".
- EF-4 SHALL OPERATE WHILE PARTS WASHER IS IN USE.
- SWITCH TO OPERATE EF-5 IN CLOSED POSITION. LABEL SWITCH AS "PREP BAY EXPANSION VENTILATION".
- ELECTRICAL CONTRACTOR TO RE-USE EXISTING CIRCUIT FROM PANEL "EL" MADE AVAILABLE FROM DEMO WORK.
- PROVIDE SWITCH AT THIS LOCATION FOR EF-8 IN MIXING ROOM.
- PROVIDE FIRE ALARM NOTIFICATION APPLIANCES AT THIS LOCATION. CONTRACTOR TO PROVIDE LAYOUT AND DESIGN FROM FIRE ALARM DESIGNER. THAT IS NICETT III CERTIFIED. NOTIFICATION DEVICES ARE TO BE CIRCUITED TO EXISTING FIRE ALARM PANEL LOCATED OUTSIDE ELECTRICAL 118 IN THE CORRIDOR. PROVIDE PULL STATION WITH HORN/STROBE AT EACH NEW EXIT.
- PROVIDE EMERGENCY LIGHT FIXTURE TYPE "E" WITH "WPVS" OPTION FOR WATERPROOF PROTECTION OF FIXTURE.

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PROJECT # T1921-01  
SITE # 6300  
ASSET# 8136300017

REVISION: 1  
DATE: 06/18/2020  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 04/22/2020

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: MSS  
DESIGNED BY: MSS

SHEET TITLE:  
ELEC LIGHTING PLAN  
SUPPLEMENTAL  
SKETCH

SHEET NUMBER:

SK-1

CASCO

12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

1  
E103

## ELECTRICAL LIGHTING PLAN

SCALE: 1/16" = 1'-0"





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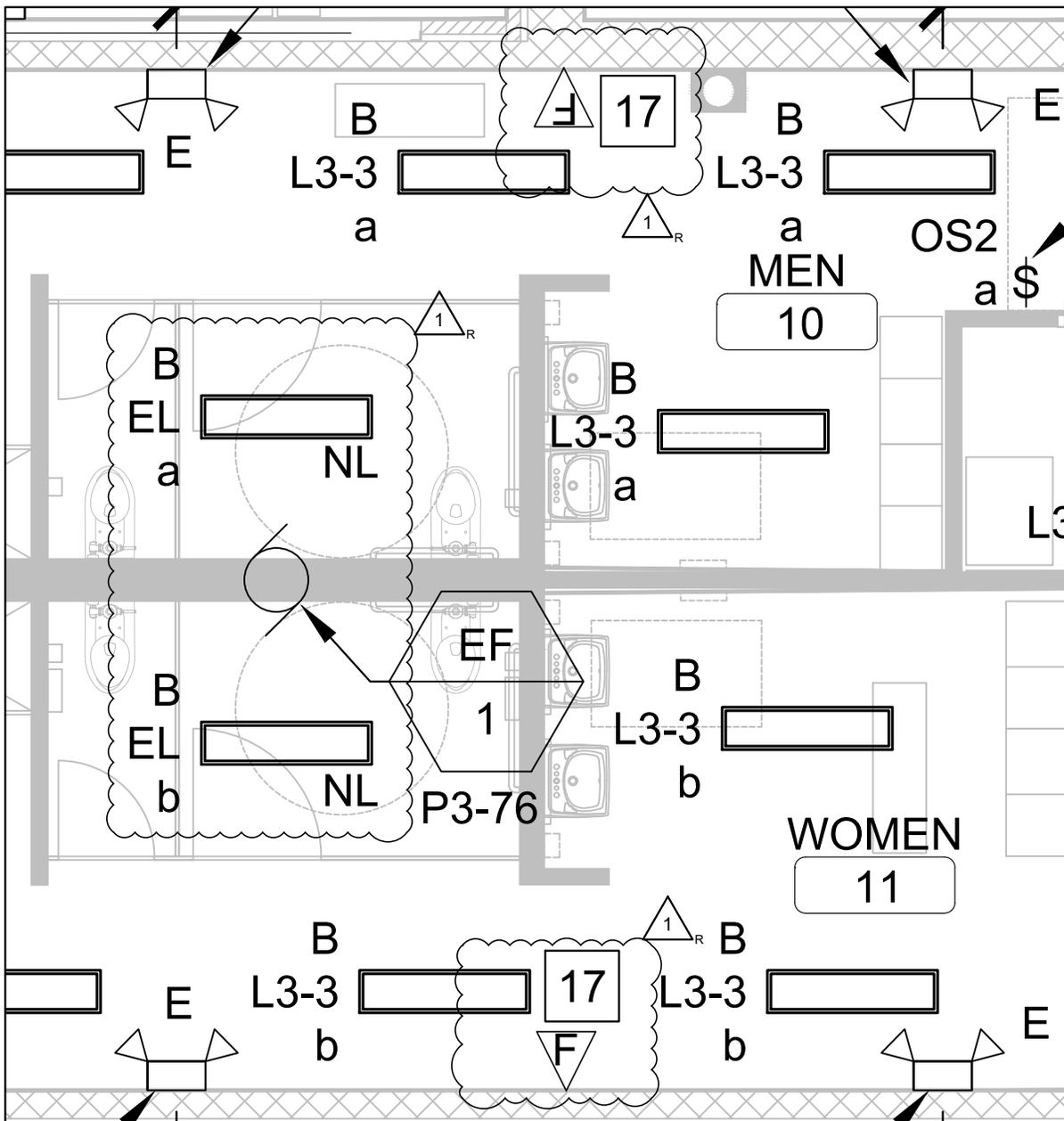
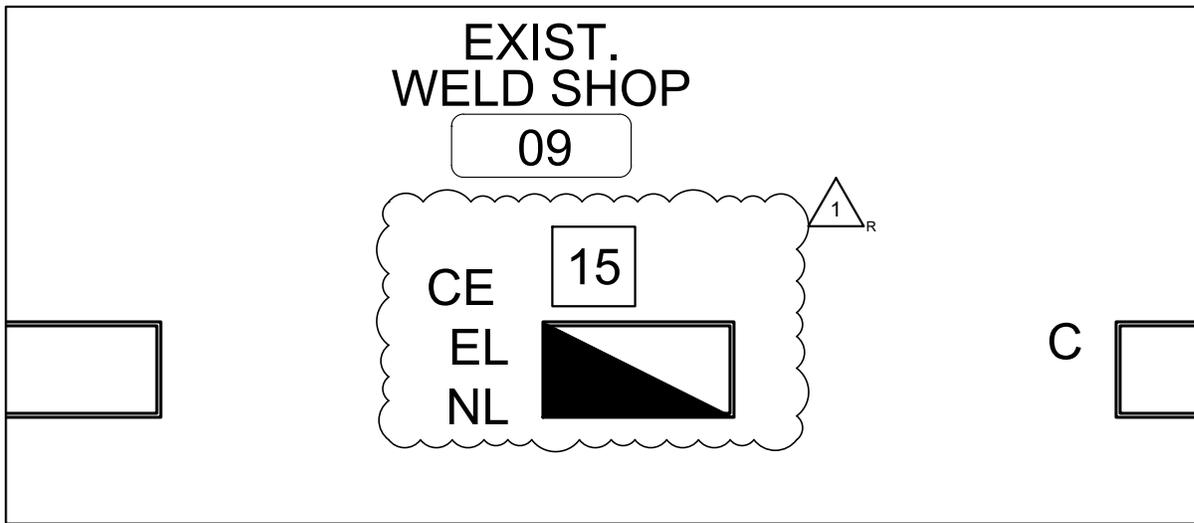
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SHEET NUMBER:

SK-2

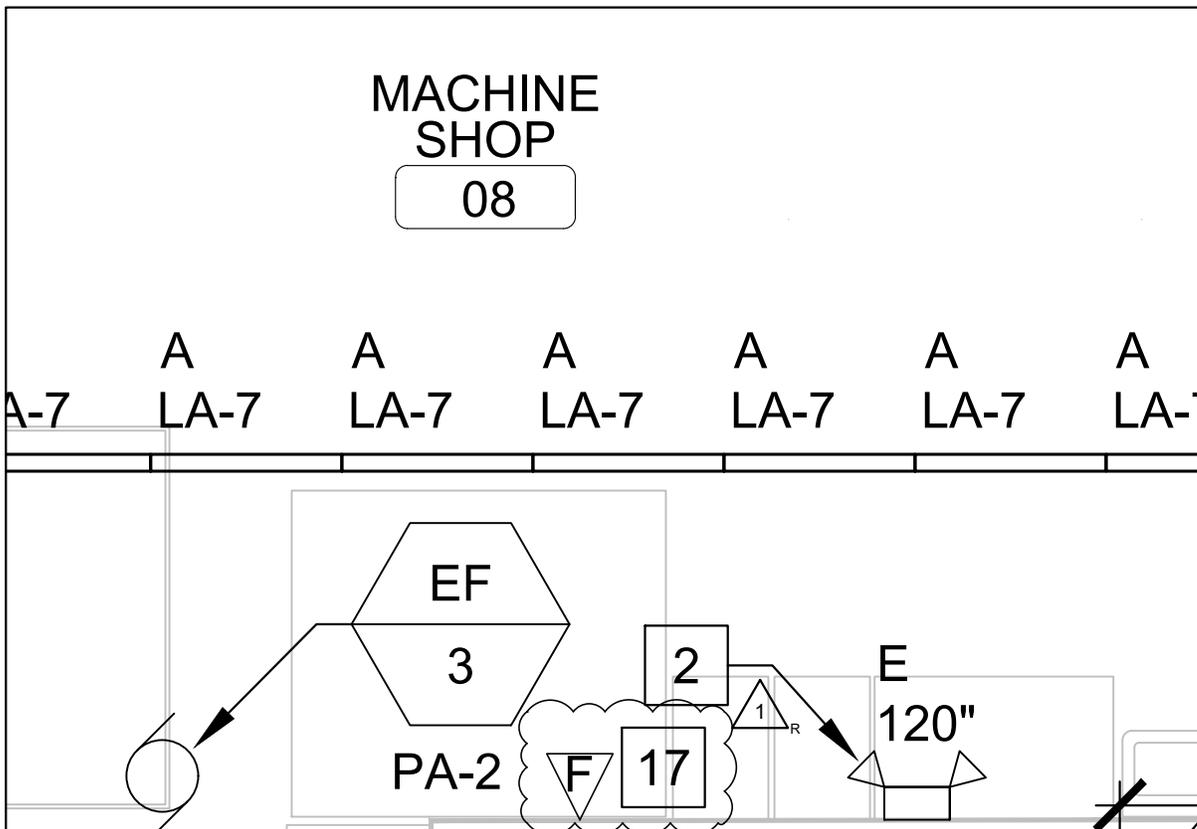
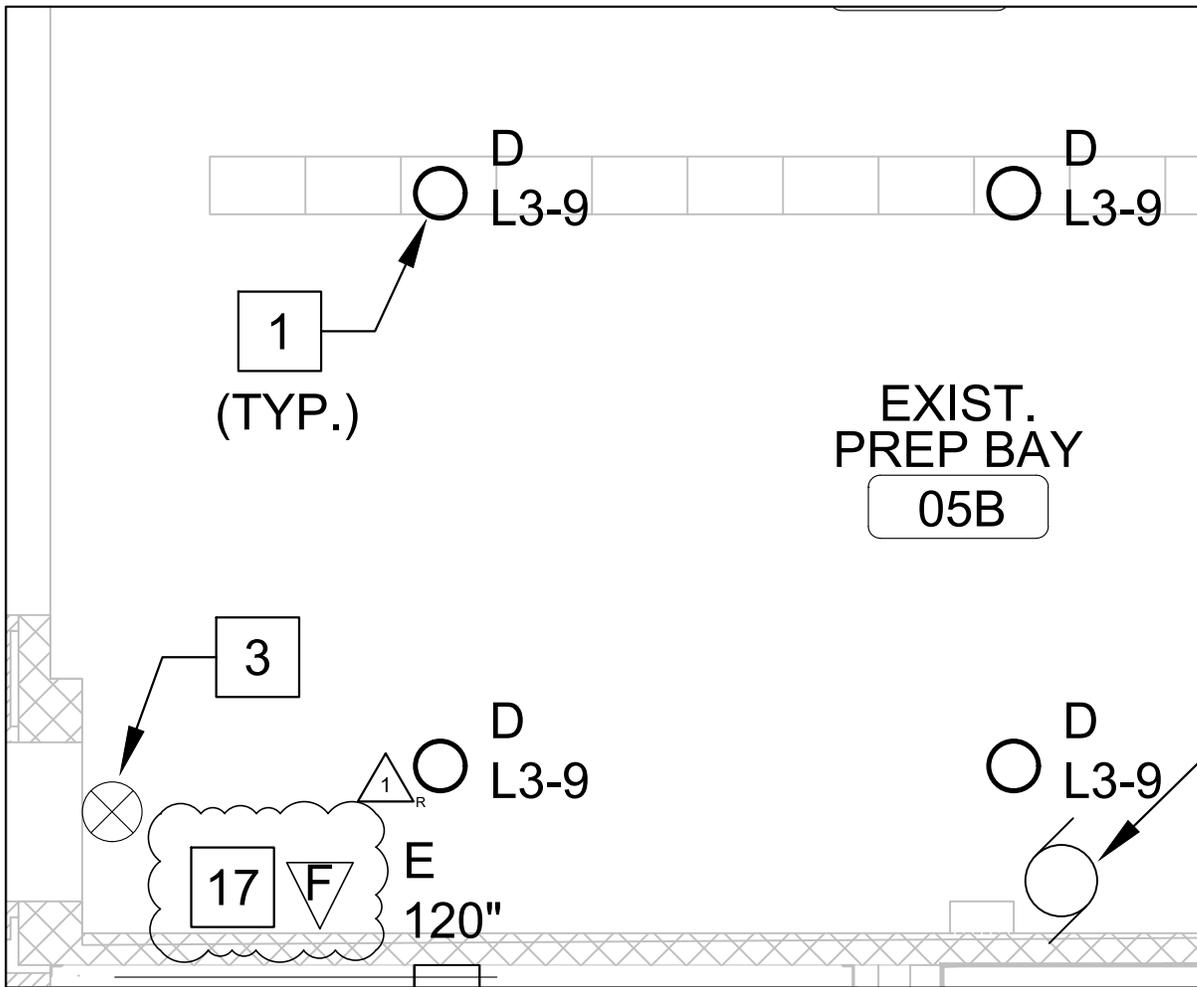


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E103

ELECTRICAL LIGHTING PLAN

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





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SUPPLEMENTAL  
SKETCH

SHEET NUMBER:

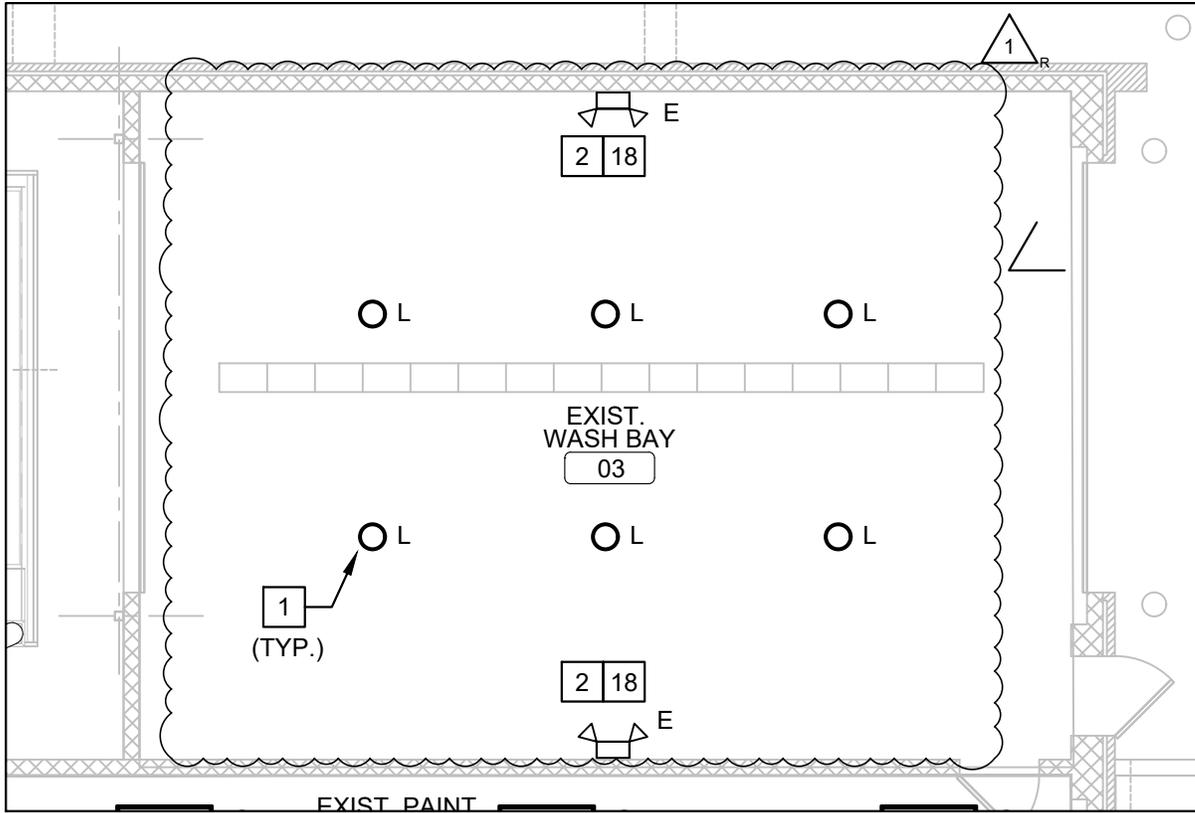
SK-3

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E103

ELECTRICAL LIGHTING PLAN

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





**1** ELECTRICAL LIGHTING PLAN  
E103 SCALE: 1/8" = 1'-0"

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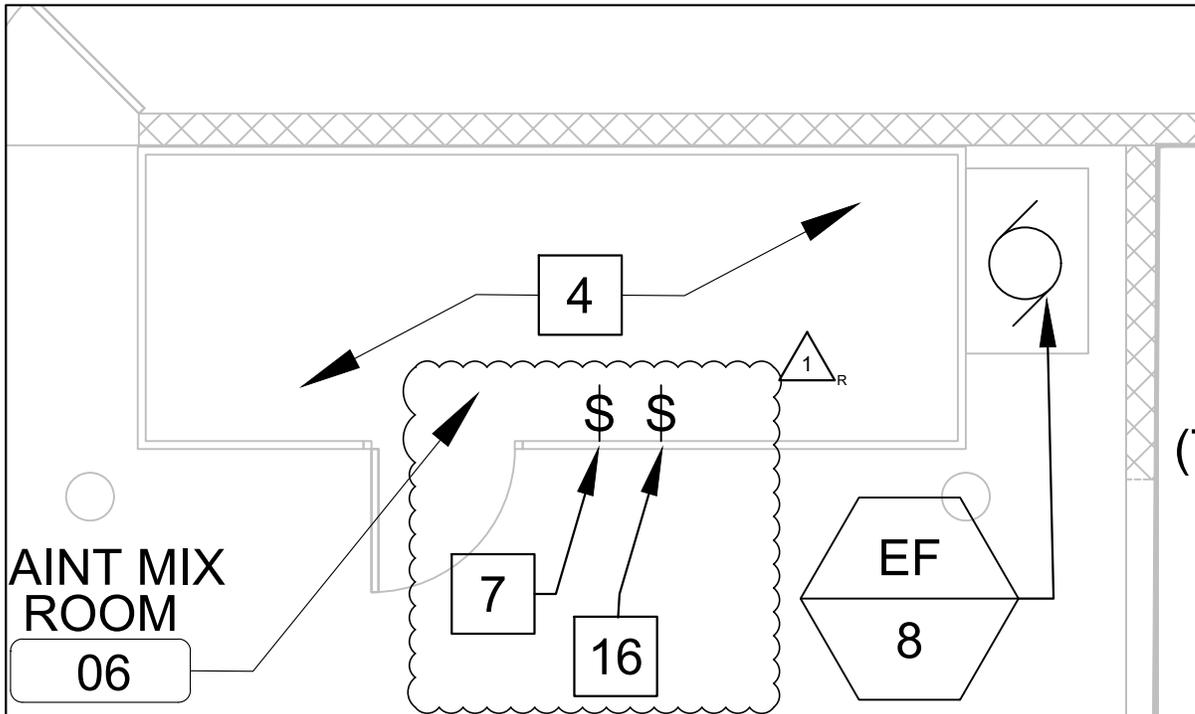
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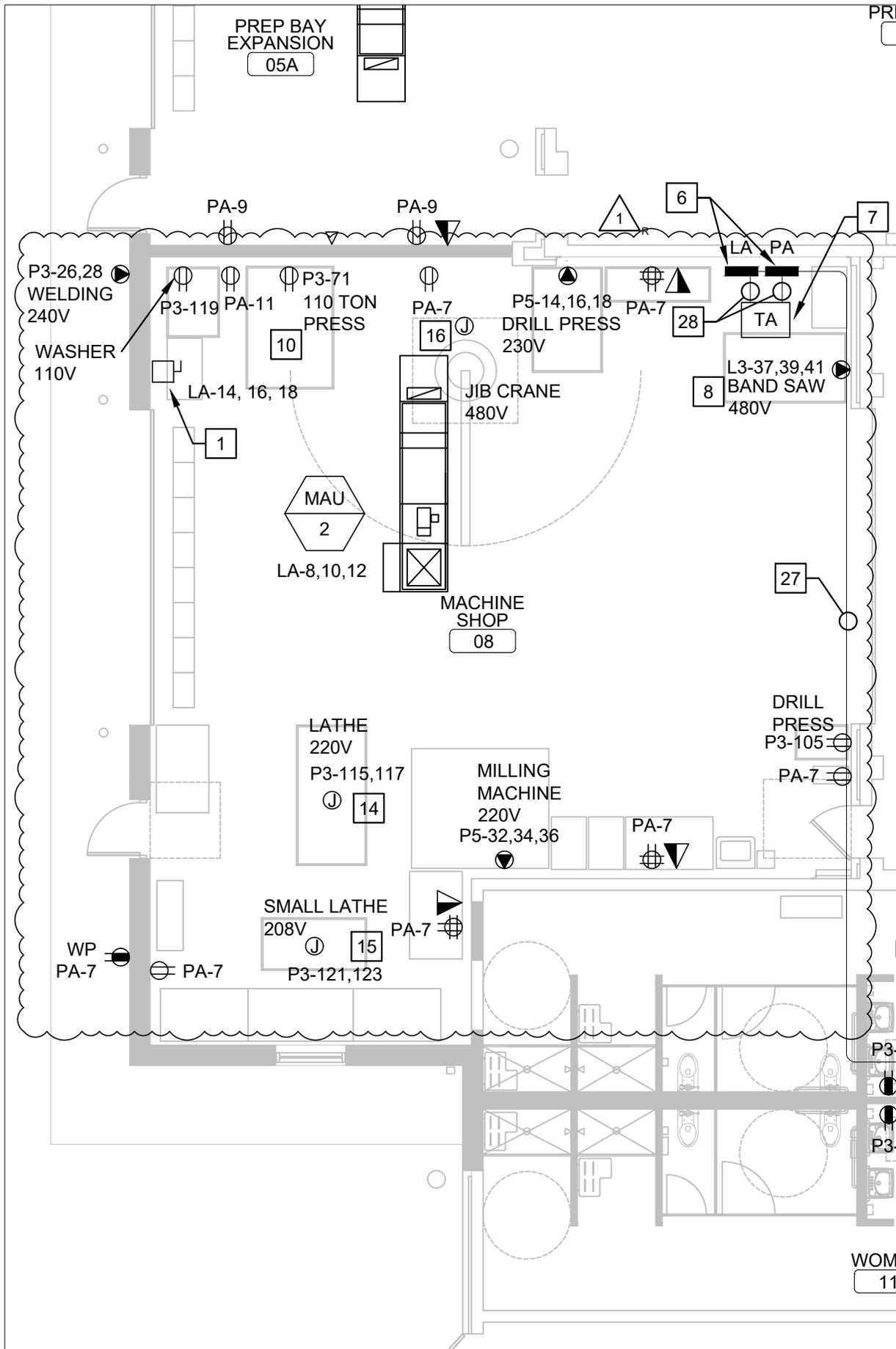
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**SK-4**



**1** ELECTRICAL LIGHTING PLAN  
E103 SCALE: 1/4" = 1'-0"





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SHEET NUMBER:

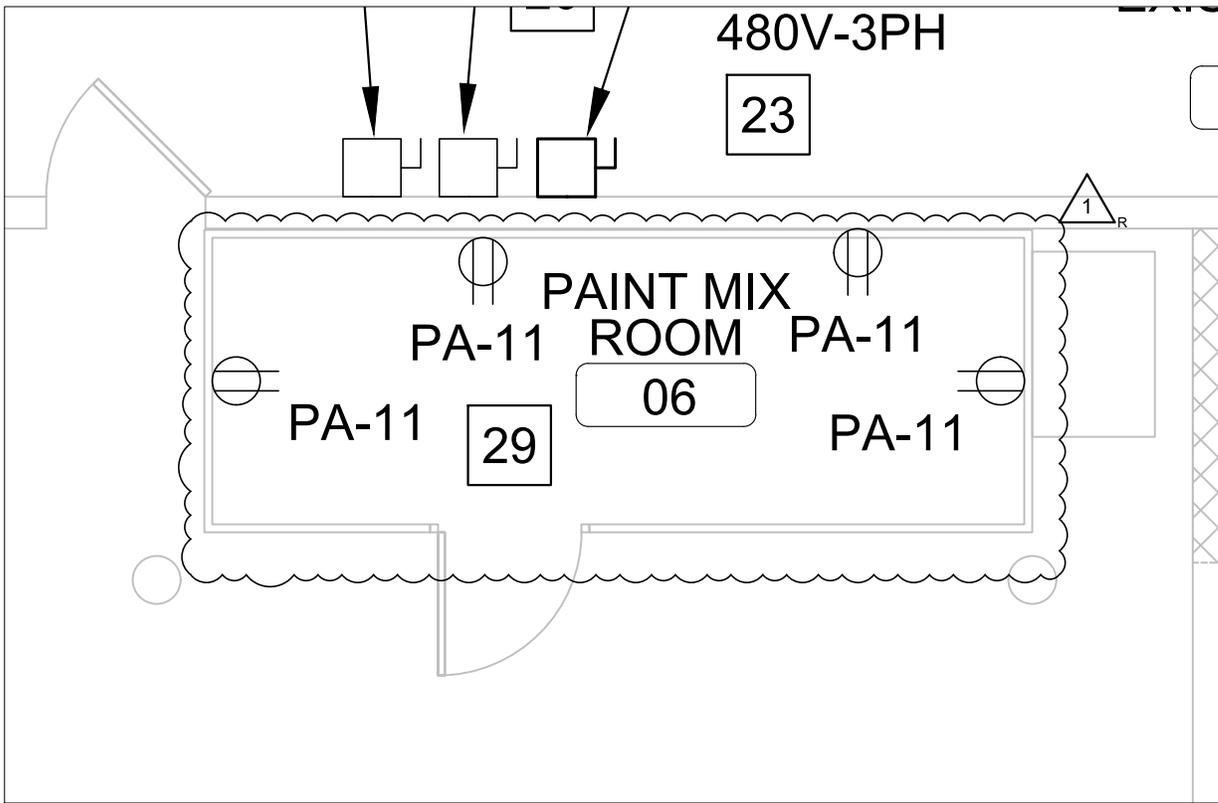
**SK-5**

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E102

**ELECTRICAL POWER PLAN**

SCALE: 1/8" = 1'-0"





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ELEC POWER PLAN  
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SKETCH

SHEET NUMBER:

**SK-6**

- SHEET E101 FROM DEMO.
26. ALTERNATE #2: RE-ROUTE CONDUIT ATTACHED TO WALL TO UTILIZE CEILING STRUCTURE FOR SUPPORT. WALL TO BE REMOVED UNDER THIS ALTERNATE.
  27. GENERAL ROUTE OF FEEDER FOR NEW PANEL "LA". EXACT ROUTE TO BE DETERMINED IN FIELD. KEEP CONDUIT TIGHT TO STRUCTURE AND PROPERLY SEAL ALL PENETRATIONS. SEE DETAIL 1/E601 FOR CONDUIT AND CABLE SIZE.
  28. PRIMARY AND SECONDARY FEEDERS FOR NEW TRANSFORMER "TA". SEE DETAIL 1/E601 FOR CONDUIT AND CABLE SIZE.
  29. PROVIDE CLASS 1/DIVISION 2 RECEPTACLES WITH GRC CONDUIT AND SEAL OFFS.

1  
E102

**ELECTRICAL POWER PLAN**

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

