



## **ADDENDUM No. 1**

Project: **Gear Replacement  
FAMU – Foster Tanner**

Project Number: **2023-085**

Date: **April 30, 2024**

***The requirements stated in this Supplemental Instruction supersede and supplement all requirements previously stated in the drawings and specifications, and become part of the contract documents for this project.***

### **Drawings:**

Item #D1: Sheet E-001 Electrical General, Notes, Legend, and Schedules:

1. Panel 'L1' shown to be existing to remain and not to be replaced.
2. Additional Keynotes added for Alternate Bid #1. See keynotes #11-14.

**END OF ADDENDUM NO. 1**

**ELECTRICAL GENERAL NOTES**

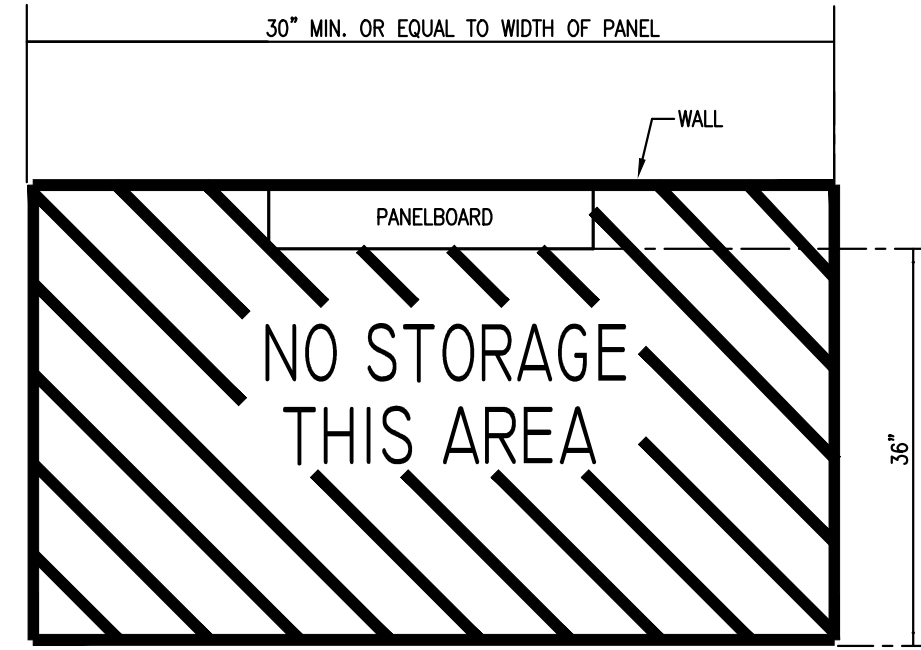
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO A/V DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL 'AV' EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
- COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2017 NATIONAL ELECTRIC CODE AND 2020 FBC. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- OBTAIN ARCHITECT'S/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
- TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2011 ART. 110.14 & TABLE 310.15(B)(16).
- WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).

**DEMOLITION NOTES**

- ALL EXISTING SYSTEMS AND CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXISTING ELECTRICAL CIRCUITS OF POWER, RECEPTACLES, LIGHTING, ETC. BEING REMOVED MAY NOT BE SHOWN ON THESE DOCUMENTS, BUT ARE TO BE REMOVED AS REQUIRED TO BUILD THIS PROJECT AND TO PERMIT NEW FINISHES, WALLS, ETC. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL NOTIFY THE ARCHITECT OF DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST AND SHALL PERFORM ANY ADDITIONAL WORK NECESSARY TO PERFORM THE WORK AS SHOWN AND SPECIFIED.
- IF A DEVICE IS BEING REMOVED AND THE CIRCUIT FEEDS OTHER LOADS FROM THE DEVICE, THEN THE WIRING SHALL BE MADE CONTINUOUS TO THE REMAINING LOADS. NO CIRCUIT CONTINUITY SHALL BE LOST.
- IF A DEVICE IS BEING REMOVED AND NOT PART OF A DEMO WALL, THAT LOCATION SHALL BE RESTORED TO MATCH ADJACENT SURFACE.
- REMOVE ALL DISCONNECTS, WIRING, AND CONDUITS SERVING MECHANICAL EQUIPMENT BEING REMOVED OR RELOCATED.
- CONTRACTOR TO REMOVE ALL CONDUITS, & ASSOCIATED WIRING FROM DEVICES BEING REMOVED BACK TO PANEL UNLESS NOTED OTHERWISE. WHEN ALL LOADS ON EXISTING BREAKERS ARE REMOVED, RELABEL BREAKER AS 'SPARE'.

**KEYNOTES:**

- EXISTING FEEDER TO REMAIN. RECONNECT TO NEW EQUIPMENT WHERE APPLICABLE.
- EXISTING PANELBOARD SECTION 'ML-B' TO REMAIN AND BE RECONNECTED TO NEW SWITCHGEAR 'ML'. PANELBOARD IS SIEMENS TYPE 25, 208Y/120V, 800A M.L.O.
- EXISTING 300KVA, 480V-208Y/120 DRY-TYPE TRANSFORMER TO REMAIN. RECONNECT TO NEW SWITCHGEAR.
- EC SHALL INSTALL EXISTING SURGE SUPPRESSOR IN NEW SWITCHGEAR 'ML'.
- 45KVA DRY TYPE TRANSFORMER; 480Y/277V - 208Y/120V.
- REPLACE EXISTING 800A, 208Y/120V, 3ø, 4W SWITCHGEAR WITH NEW 800A, 208Y/120V, 3ø, 4W SWITCHGEAR. SECTION 'ML-1' IS 1600A M.B. AND SECTION 'ML-2' CONTAINS BRANCH CIRCUITS BREAKERS. NEW SWITCHGEAR 'ML-2' SHALL HAVE ADEQUATE SPACES TO RE-FEED ALL EXISTING EQUIPMENT. REFER TO SHEET 'E-101' FOR SWITCHGEAR 'ML2' SCHEDULE. NEW SWITCHGEAR GROUND IS TO BE BONDED TO EXISTING SERVICE ENTRANCE GROUND. EXISTING GEAR IT'S UNI-POWER.
- EXISTING HOUSEKEEPING PAD TO REMAIN AND MODIFIED (IF REQ'D) FOR NEW GEAR.
- 4" HIGH HOUSEKEEPING PAD SHALL BE 4" LARGER THAN FOOTPRINT OF EQUIPMENT. COORDINATE FINAL MOUNTING LOCATION WITH OWNER.
- EXISTING SF6 AIR SWITCH TO BE REPLACED WITH NEW SF6 AIR SWITCH. RECONNECT TO INCOMING UNDERGROUND PRIMARY AND TO EXISTING FEEDER GOING TO EXISTING 750 KVA TRANSFORMER.
- EXISTING UNDERGROUND PRIMARY TO REMAIN. RECONNECT TO NEW SF6 AIR SWITCH.
- EXISTING CIRCUIT SWITCHER IS G&W ELECTRICAL CO. (CAT #RAC44-376M-40SF) 15.5KV MAX VOLTAGE/110KV BIL/600A CONT/600A INTER./1223LBS.
- EXISTING 12.47KV-480/277V, 750 KVA PADMOUNT TRANSFORMER LABELED AS 'FT750'. (FOSTER-TANNER).
- THE NEW PADMOUNTED SWITCHGEAR SHALL BE A FRONT ACCESS, 3-PHASE PADMOUNT SWITCHGEAR WITH A SOLID DIELECTRIC INSULATED SWITCHES. RATINGS OF THE NEW SWITCHGEAR SHALL BE 15KV CLASS WITH A MINIMUM CONTINUOUS CURRENT OF 600 AMPS AND 110KV BIL. SWITCHGEAR SHALL BE A 3-WAY SWITCHGEAR CONFIGURED WITH TWO LOAD BREAK WAYS AND ONE FAULT INTERRUPTER WAY. EACH WAY SHALL HAVE A VIEWING WINDOWS TO PROVIDE VISIBLE INDICATION OF THE CONTACT POSITION. (BASIS OF DESIGN G&W ELECTRIC TRIDENT SPRING-OPERATED SOLID DIELECTRIC SWITCHGEAR) PROVIDE NEW ELBOWS AS REQUIRED. NOMINAL BUSHING HEIGHT TO NOT EXCEED 24" A.F.C. PRIOR TO ORDERING EQUIPMENT, EC TO FIELD-INSPECT EXISTING GEAR AND ADJACENT MANHOLE TO INSURE THE EXISTING PRIMARY CABLE HAS THE REQUIRED LENGTH FOR INSTALLATION OF THE NEW ELBOWS/EQUIPMENT.
- DUE TO THE AGE AND TYPE OF UG PRIMARY CABLE, EC TO REPLACE THE EXISTING CABLE WITH 3ø2, MW-105, 15KV, 1/3 CONCENTRIC NEUTRAL W/ 133% INSULATION.



**TYPICAL CLEARANCE AT ELECTRICAL PANELS**  
NOT TO SCALE



**NOTES:**

- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
- THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
- THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
- THE SIZE OF THE LABEL SHALL BE MINIMUM:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	2'	3'
OUTDOOR	3'	4.5'

**ARC FLASH WARNING LABEL**

**ELECTRICAL LEGEND**

**PANELS AND POWER**

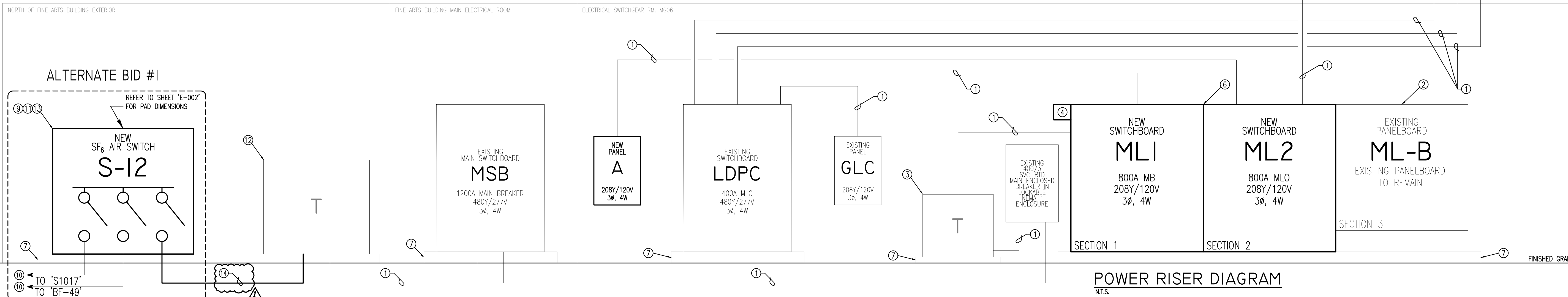
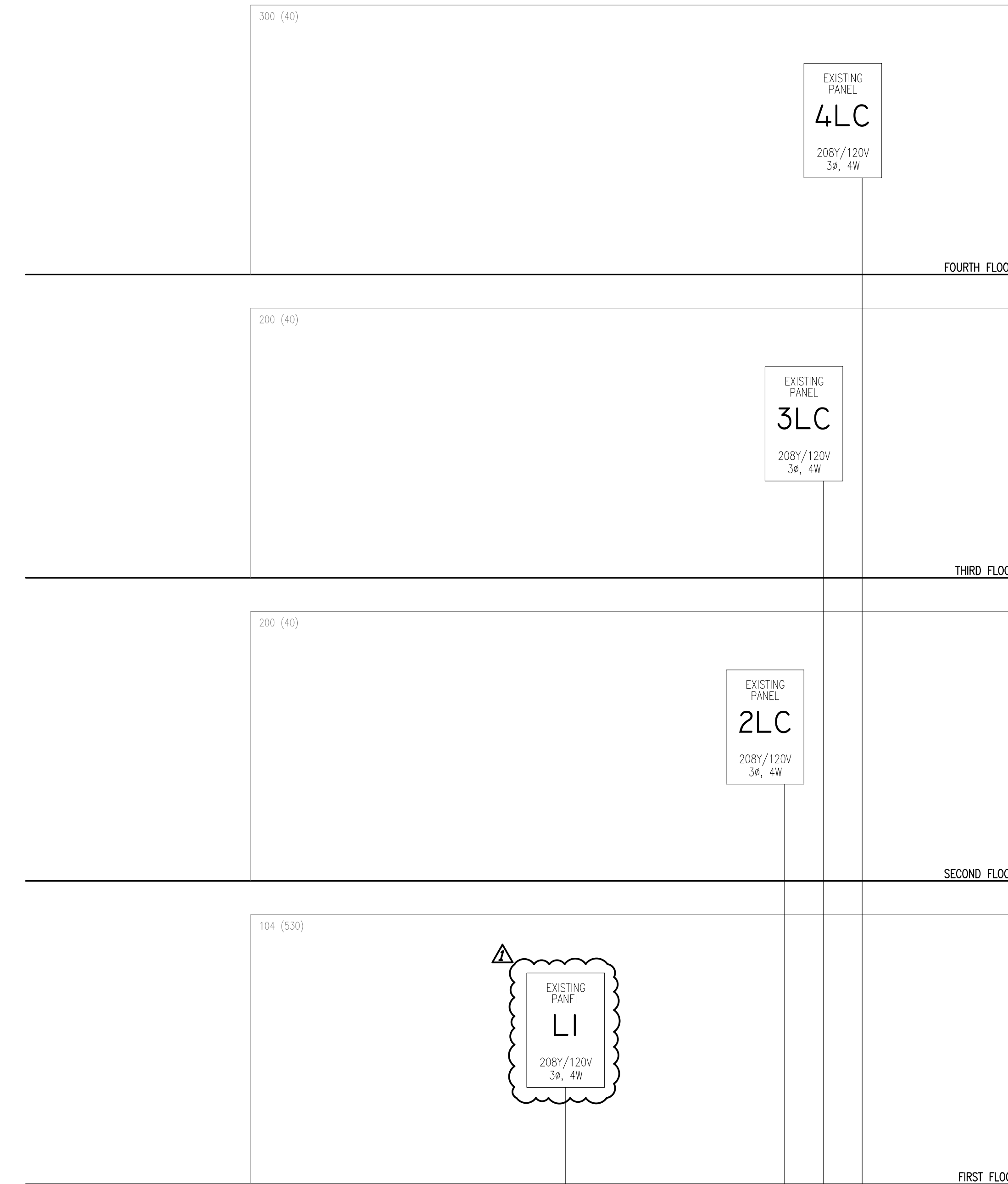
- 120/208 VOLT PANELBOARD
- EXISTING 120/208 VOLT PANELBOARD
- NON-FUSIBLE DISCONNECT SWITCH: XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING

**MISCELLANEOUS**

- A.F.F. ABOVE FINISH FLOOR
- B.F.C. BELOW FINISHED CEILING

**BRANCH CIRCUITING**

- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- HOME RUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2ø12, 1ø12 GROUND - 1/2" C; 3ø12, 1ø12 GROUND - 1/2" C; 4ø12, 1ø12 GROUND - 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES



**POWER RISER DIAGRAM**  
N.T.S.



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Anthony L Davis, State of Florida, Professional Engineer, License No. 57419  
This item has been digitally signed and sealed by Anthony L. Davis on the date indicated here.  
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Florida A & M University  
**FOSTER-TANNER ELECTRICAL GEAR REPLACEMENT**  
FOSTER-TANNER MUSIC CENTER,  
TALLAHASSEE, FL 32301

No.	Description	Date
1	ADDENDUM #1	04/30/24

PROJECT NUMBER: 2023-085  
DATE: 03-29-2024  
DRAWN BY: KEF  
DESIGNED BY: ALD

**ELECTRICAL GENERAL NOTES, LEGEND AND SCHEDULES**

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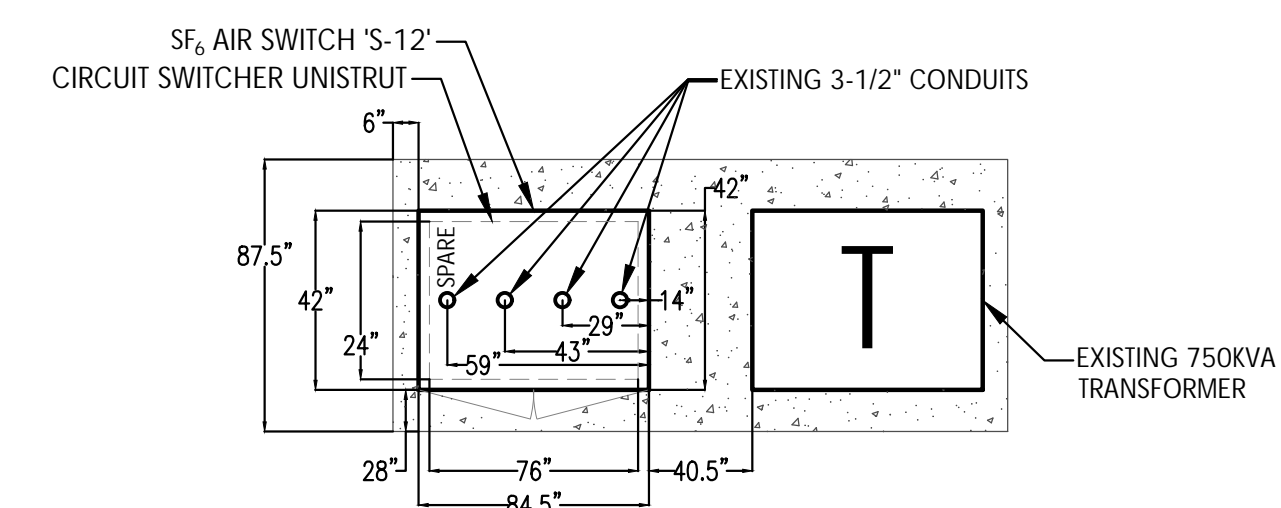
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DRAWN BY: SBH  
DESIGNED BY: ALD

SITE PLAN

E-002

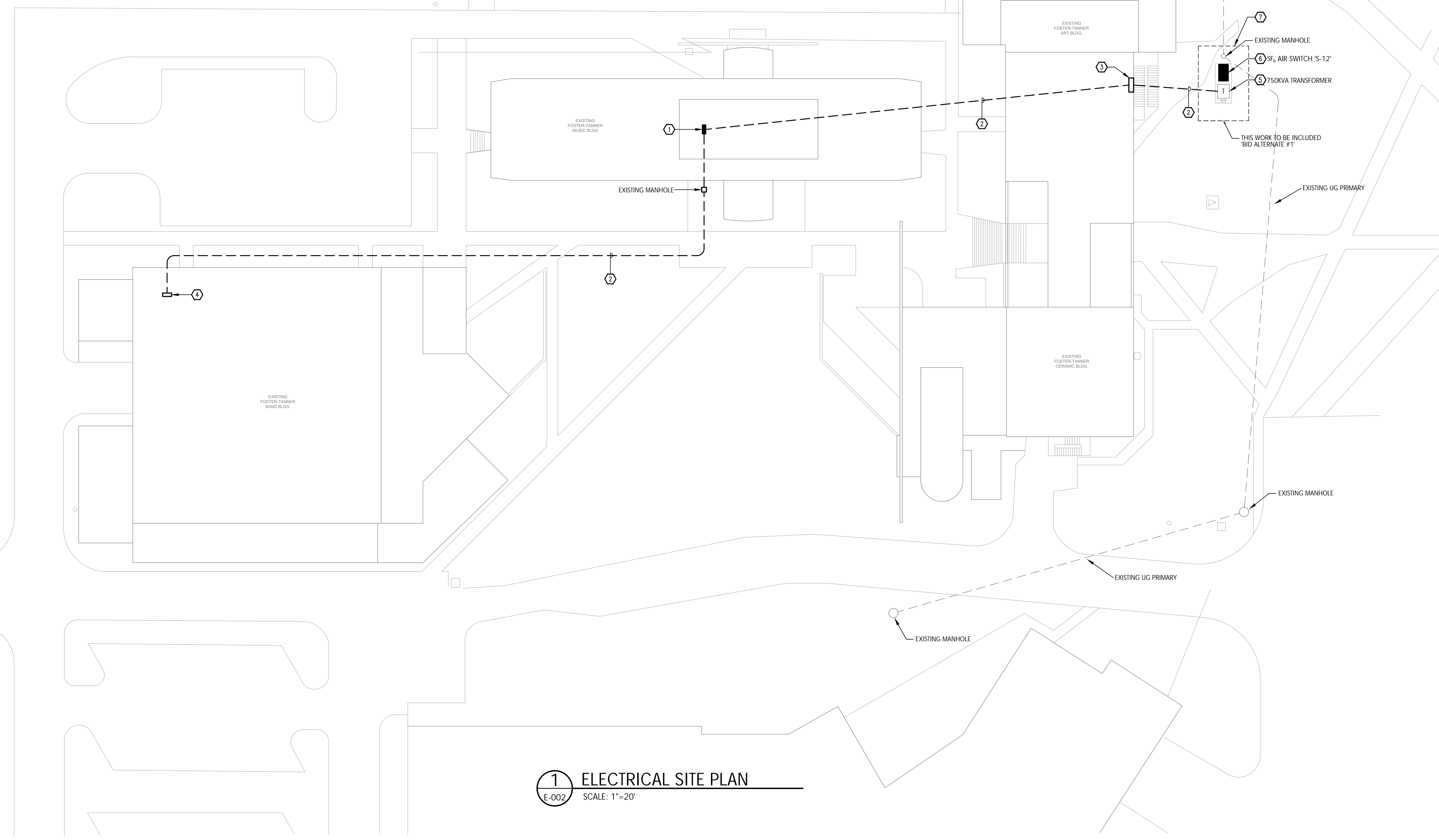
**SHEET NOTES**

- 1 800A 208Y/120V SWITCHBOARD 'ML' TO BE REPLACED. SEE SHEET 'E-001'. PER JOHN KIMBERL OF FAMU FACILITIES. SWBD PROTECTED BY 400A/3-POLE BREAKER IN 'FINE ARTS' BUILDING ('MSB').
- 2 EXISTING UNDERGROUND FEEDER TO REMAIN.
- 3 EXISTING MAIN SWITCHBOARD TO REMAIN.
- 4 EXISTING PANEL TO REMAIN. PER JOHN KIMBERL OF FAMU FACILITIES. PANEL IS PROTECTED BY 225A/3-POLE BREAKER IN SWBD 'MSB' IN 'FINE ARTS' BUILDING ADJACENT TO PADMOUNT TRANSFORMER.
- 5 EXISTING 750 KVA TRANSFORMER TO REMAIN.
- 6 SF<sub>6</sub> AIR SWITCH 'S-12' TO BE REPLACED WITH NEW SF<sub>6</sub> AIR SWITCH. RECONNECT NEW SWITCH TO EXISTING UNDERGROUND PRIMARY AND TO EXISTING TRANSFORMER. SEE SHEET 'E-001' FOR DETAILS.
- 7 SEE 'CIRCUIT SWITCHER EXISTING CONCRETE PAD DIMENSIONS', THIS SHEET, FOR MORE DETAILS.



**2** **CIRCUIT SWITCHER EXISTING CONCRETE PAD DIMENSIONS**  
E-002 SCALE: N.T.S.

**1** **ELECTRICAL SITE PLAN**  
E-002 SCALE: 1"=20'



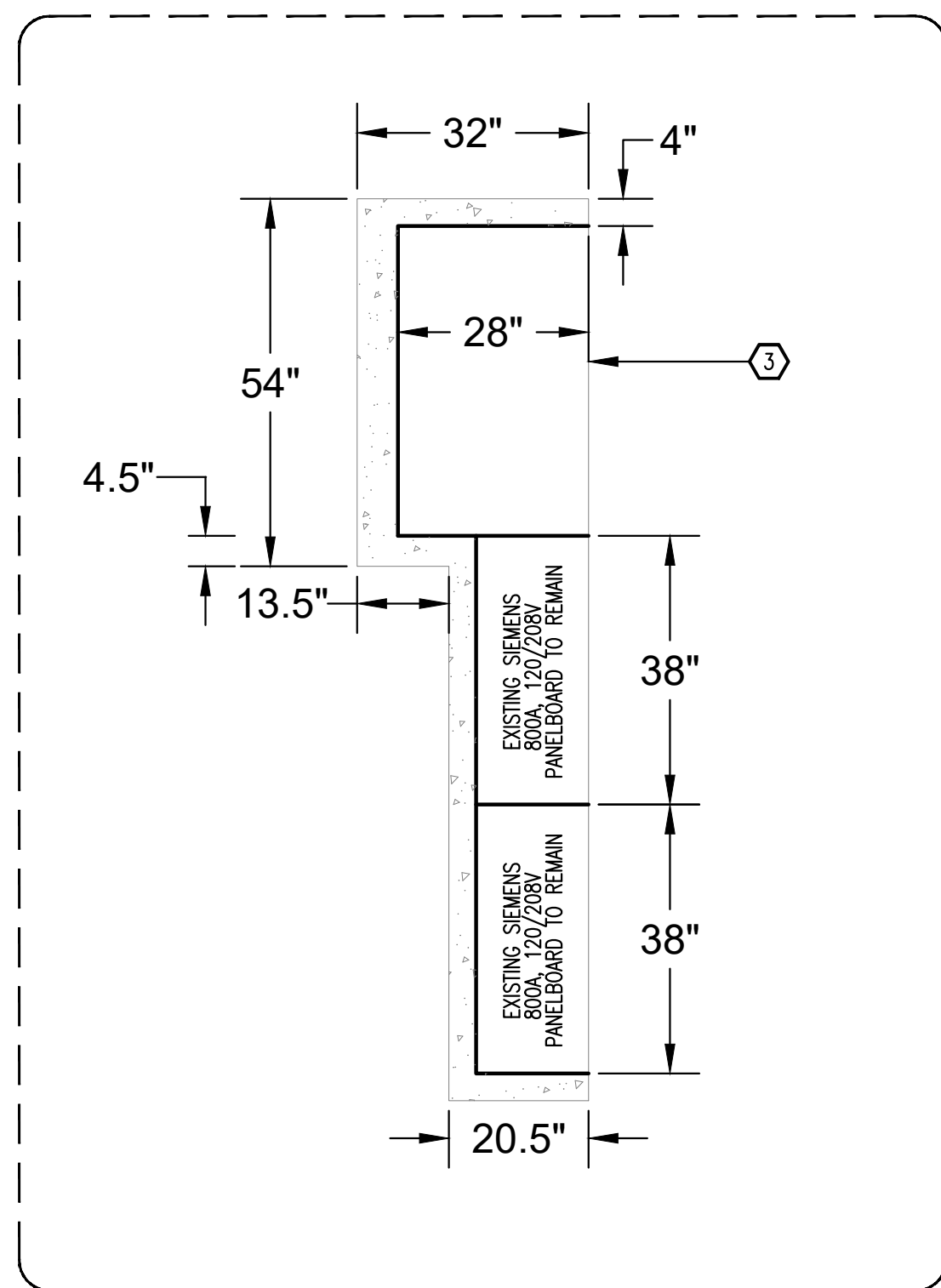
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**GENERAL NOTES**

- ALL FEDERAL PACIFIC EQUIPMENT BEING REMOVED IS TO BE RETURNED TO OWNER.
- ALL ITE EQUIPMENT BEING REMOVED IS TO BE RETURNED TO OWNER.

**SHEET NOTES**

- REPLACE EXISTING ITE, 800 AMP, 208Y/120V, 3Ø, 4W, 2-SECTION SWITCHBOARD WITH NEW 800 AMP, 208Y/120V, 3Ø, 4W SWITCHBOARD. RECONNECT TO EXISTING FEEDER FROM EXISTING SIEMENS STEP-DOWN TRANSFORMER LOCATED IN ELECTRICAL SWITCHGEAR RM. MG06. LABEL NEW SWITCHBOARD 'ML'. INSTALL NEW BREAKERS SIZED TO MATCH BREAKERS IN SWITCHBOARD BEING REPLACED. RECONNECT ALL EXISTING LOADS TO NEW SWITCHBOARD. REFER TO SWITCHBOARD SCHEDULE ON THIS SHEET AND RISER DIAGRAM ON SHEET 'E-001' FOR MORE INFORMATION.
- EXISTING SWITCHBOARD SECTION 'ML-B' IN ELECTRICAL SWITCHGEAR RM. MG06 WAS ADDED IN A PREVIOUS PROJECT. THE 800 AMP ITE SWITCHBOARD IN ELECTRICAL SWITCHGEAR RM. MG06 THAT IS BEING REPLACED WITH NEW SWITCHBOARD 'ML' WAS CONNECTED TO SWITCHBOARD SECTION 'ML-B' SWITCHBOARD 'A' AND EXISTING FEEDER TO SWITCHBOARD 'B' ARE TO REMAIN AS IS. RECONNECT EXISTING FEEDER TO NEW SWITCHBOARD 'B'. NOTE: EC TO ENSURE THE GROUND OF NEW SWITCHBOARD 'B' IS BONDED TO THE GROUND OF EXISTING MAIN SWITCHBOARD 'A'.
- PRIOR TO SUBMITTING BID, EC SHALL MAKE SITE VISIT AND ASCERTAIN ALL CONDITIONS NECESSARY FOR PROVIDING AN ACCURATE BID. IF THE EXISTING CONCRETE HOUSE-KEEPING PAD REQUIRES MODIFYING FOR NEW GEAR, EC SHALL INCLUDE IN BID.

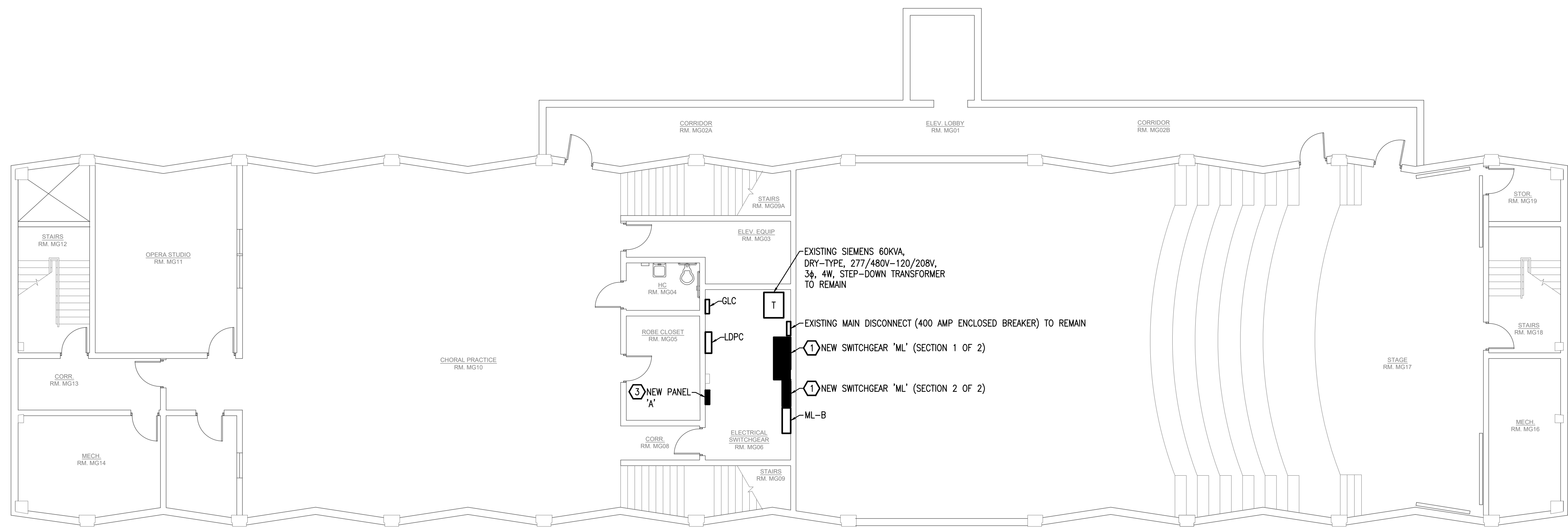


**2 SWITCHBOARD 'ML' EXISTING PAD DIMENSIONS**  
E-101 SCALE: N.T.S.

BREAKER INTERRUPTING CAPACITY: 65,000		SWITCHBOARD SCHEDULE ML2				BRACED FOR MINIMUM 65,000 AMPS SYMMETRICAL	
208/120 VOLT, 3Ø, 4W 800 AMP RATED SECTION (800 AMP SUPPLY)							
CKT	EQUIPMENT SERVED	BREAKER		LOAD KVA	BREAKER		CKT
		POLE	TRIP		POLE	TRIP	
1	SPACE ONLY	3	--		20	3	PANEL 'A'
3	PANEL 'L1'	3	70		80	3	SPARE
5	PANEL 'L2'	3	100		100	3	PANEL 'L3'
7	PANEL 'L4'	3	100		--	3	SPACE ONLY
9	SPARE	3	30		--	3	SPACE ONLY
11	SPACE ONLY	3	--		--	3	SPACE ONLY
13	SPARE	3	200		--	3	SPACE ONLY
15	SPACE ONLY	3	--		--	3	SPACE ONLY

120/208 VOLT 3Ø 4W 100 AMP MAIN LUG ONLY		CIRCUIT BREAKER PANEL SCHEDULE PANEL 'A'				SURFACE MOUNTED NEMA 1 ENCLOSURE	
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA	BREAKER		CKT
		POLE	AMP		AMP	POLE	
1	EXISTING CIRCUIT	1	20		20	1	EXISTING CIRCUIT
3	EXISTING CIRCUIT	1	20		20	1	EXISTING CIRCUIT
5	EXISTING CIRCUIT	1	20		20	1	EXISTING CIRCUIT
7	EXISTING CIRCUIT	1	20		20	1	EXISTING CIRCUIT
9	EXISTING CIRCUIT	1	20		20	1	EXISTING CIRCUIT
11	SPACE ONLY	1	--		--	1	SPACE ONLY
13							
15							
17							
19							
21							
23							

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL



**1 GROUND FLOOR POWER PLAN**  
E-101 SCALE: 1/8" = 1'-0"



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**ELECTRICAL GROUND  
FLOOR POWER PLAN**

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