PENSACOLA STATE COLLEGE BUILDING 2 MAIN GEAR REPLACEMENT

1000 COLLEGE BLVD, PENSACOLA, FL 32504

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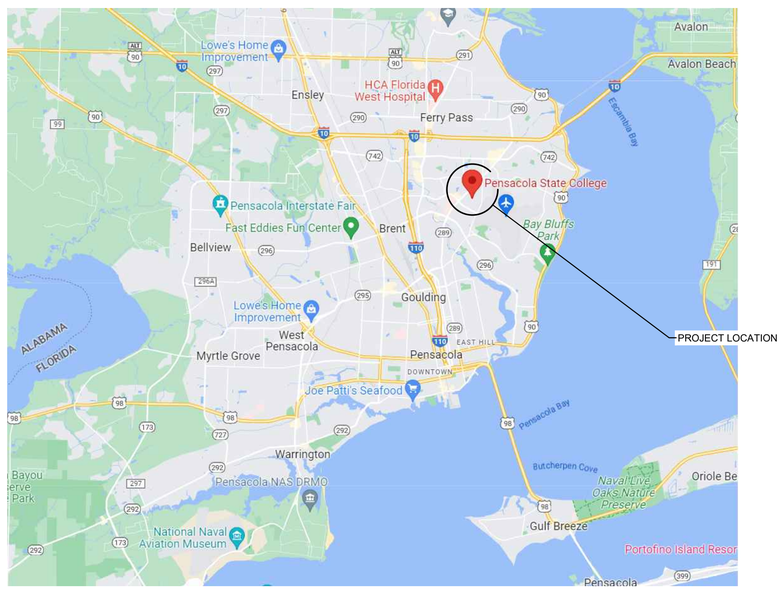

PROJECT LOCATION MAP
NTS

OWNER REPRESENTATIVES

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GREG OLIVER
MAINTENANCE MANAGER, FACILITIES, PLANNING, AND CONSTRUCTION.

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CODES AND STANDARDS

APPLICATION STANDARDS AND CODES SHALL INCLUDE ALL LOCAL ORDINANCES, ALL STATE LAWS, AND THE APPLICABLE REQUIREMENTS OF THE FOLLOWING:

- AMERICAN NATIONAL STANDARDS INSTITUTE - ANSI
- NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION - NEMA
- UNDERWRITERS' LABORATORIES, INC. - UL
- THE NATIONAL ELECTRIC CODE - NEC - NFPA 70, 2020
- FLORIDA BUILDING CODE, 2023 EDITION

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23011

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COVER SHEET

G001

ABBREVIATIONS

1P	–	ONE POLE
2P	–	TWO POLE
3P	–	THREE POLE
4P	–	FOUR POLE
A	–	AMPERE
AC	–	ALTERNATING CURRENT
AFF	–	ABOVE FINISHED FLOOR
AFG	–	ABOVE FINISHED GRADE
AHU	–	AIR HANDLING UNIT
AIC	–	AMPERE INTERRUPTING CAPACITY
AL	–	ALUMINUM
ARCH	–	ARCHITECT
AWG	–	AMERICAN WIRE GAUGE
BLDG	–	BUILDING
C	–	CONDUIT
CB	–	CIRCUIT BREAKER
CKT	–	CIRCUIT
CLG	–	CEILING
CT	–	CURRENT TRANSFORMER
CU	–	COPPER
DC	–	DIRECT CURRENT
DISC	–	DISCONNECT
DN	–	DOWN
DWG	–	DRAWING
EC	–	ELECTRICAL CONTRACTOR
ECB	–	ENCLOSED CIRCUIT BREAKER
EF	–	EXHAUST FAN
ELEC	–	ELECTRICAL
EWC	–	ELECTRIC WATER COOLER
FA	–	FIRE ALARM
FLA	–	FULL LOAD AMPS
FLEX	–	FLEXIBLE
FLR	–	FLOOR
FURN	–	FURNITURE
GC	–	GENERAL CONTRACTOR
GFCI	–	GROUND FAULT CIRCUIT INTERRUPTER
GND	–	GROUNDED
HP	–	HORSEPOWER
HVAC	–	HEATING, VENTILATING AND AIR CONDITIONING
HZ	–	HERTZ (CYCLE) PER SECOND
JB	–	JUNCTION BOX
KCMIL	–	THOUSAND CIRCULAR MILS
KVA	–	KILOVOLT AMPERE
KW	–	KILOWATT
LTG	–	LIGHTING
LV	–	LOW VOLTAGE
LSIG	–	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND TRIP UNITS
MCB	–	MAIN CIRCUIT BREAKER
MLO	–	MAIN LUGS ONLY
MTD	–	MOUNTED
MTG	–	MOUNTING
NEC	–	NATIONAL ELECTRICAL CODE
Ø	–	PHASE
PNL	–	PANELBOARD
PRI	–	PRIMARY
RTU	–	ROOFTOP UNIT
SEC	–	SECONDARY
SW	–	SWITCH
UG	–	UNDERGROUND
V	–	VOLT
W	–	WATT
XFMR	–	TRANSFORMER
+48"	–	MOUNTING HEIGHT IN INCHES TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE. VALUE MAY VARY.

POWER DISTRIBUTION SYMBOLS

	SURFACE MOUNTED PANELBOARD; 120/208V; MT 72" AFF TO TOP
	SURFACE MOUNTED PANELBOARD; 277/480V; MT 72" AFF TO TOP
	FLUSH MOUNTED PANELBOARD; 120/208V; MT 72" AFF TO TOP
	FLUSH MOUNTED PANELBOARD; 277/480V; MT 72" AFF TO TOP
T	DRY TYPE TRANSFORMER; SIZE AND RATING AS NOTED
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH

POWER DISTRIBUTION DESIGNATIONS

P1	LETTERS "P1" INDICATE PANEL LABEL; REFER TO ELECTRIC EQUIPMENT NAMEPLATE DETAIL FOR FULL NAMEPLATE REQUIREMENTS
30/3/1	SIZE NOTED AS "AMPERAGE/POLES/NEMA" (I.E. 30/3/1 SHALL INDICATE 30A, 3 POLE, NEMA 1)

RACEWAY SYMBOLS

FLR	CLG	WALL	
			JUNCTION BOX
			CONDUIT CAP
			CONDUIT TURNED UP
			CONDUIT TURNED DOWN
			RACEWAY INSTALLED CONCEALED IN WALLS/ABOVE CEILING
			RACEWAY INSTALLED CONCEALED BELOW GRADE/SLAB/FLOOR
			RACEWAY INSTALLED EXPOSED
			FLEXIBLE CONDUIT CONNECTION
			FLEXIBLE CONDUIT CONNECTION; STUBBED UP FROM FLOOR

RACEWAY DESIGNATIONS

EM	"EM" INDICATES EMERGENCY RACEWAY
	TICK MARKS REPRESENT WIRE COUNT. EACH TICK MARK REPRESENTS ONE(1) PHASE CONDUCTOR AND/OR GROUNDED (NEUTRAL) CONDUCTOR. DOTTED TICK MARK REPRESENTS EQUIPMENT GROUNDING CONDUCTOR. UNLESS NOTED OTHERWISE, NO MARKS INDICATES TWO NO. 12 CONDUCTORS AND ONE NO. 12 GREEN GROUND CONDUCTOR IN 3/4"" CONDUIT.
PNL-##	RACEWAY WITH ARROW INDICATES HOMERUN TO PANEL. "PNL-##" INDICATES PANEL AND SPACE NUMBER FOR CIRCUIT.

GROUNDING SYMBOLS

G	GROUND ROD
	LIGHTNING PROTECTION STRIKE TERMINATION/AIR TERMINAL
	GROUNDING ELECTRODE/GROUNDING ELECTRODE SYSTEM

ELECTRICAL GENERAL NOTES

A. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.

B. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS – SIZE PER N.E.C.

C. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER 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.

D. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL.

E. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. REFER TO TYPICAL ARC FLASH HAZARD LABEL DETAIL.

F. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C).

G. PROVIDE BUSHINGS ON ALL CONDUIT.

ELECTRICAL DEMOLITION NOTES

1. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED WITH THE FACILITY PERONNEL IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE.

2. ALL DEMOLITION WORK REQUIRED SHALL BE PERFORMED WITH CARE SO AS NOT TO INTERRUPT OTHER EXISTING SERVICES (WATER, GAS, ELECTRICAL, SEWER, SPRINKLERS, ETC.). IF ACCIDENTAL UTILITY INTERRUPTION, DAMAGE, ETC., RESULTS FROM WORK PERFORMED BY THE CONTRACTOR, THE AFFECTED UTILITY OR SERVICE SHALL BE RETURNED TO ITS ORIGINAL CONDITION WITHOUT DELAY, BY AND AT THE EXPENSE OF THE CONTRACTOR, USING SKILLED WORKMEN OF THE TRADE INVOLVED.

3. REMOVE ALL OUTLETS, PULL BOXES, JUNCTION BOXES, ETC., AS REQUIRED TO COMPLETELY REMOVE THE ELECTRICAL ITEMS SHOWN FOR DEMOLITION UNLESS NOTED TO REMAIN. DISCONNECT AND REMOVE ALL ELECTRICAL PROVISIONS TO EQUIPMENT BEING REMOVED.

4. REMOVE ALL WIRING, CONDUIT, RACEWAYS, OUTLET BOXES, SUPPORTING APPARATUS ETC., AS REQUIRED.

5. SYMBOLS SHOWN ARE TYPICAL AND LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO LIMIT THE AMOUNT OF DEMOLITION. COORDINATE WITH EXISTING CONDITIONS AND THESE NOTES AND REMOVE ALL APPLICABLE SYSTEMS AND COMPONENTS CONFLICTING WITH FINISHED DESIGN INTENT.

6. EXISTING BRANCH WIRING SHOWN IS DIAGRAMMATICAL ONLY AND IS BASED UPON EXISTING AS-BUILT DRAWINGS AND SURVEYS. COORDINATE WITH ACTUAL EXISTING CONDITIONS FOR NUMBER OF CONDUCTORS PER CONDUIT AND EXACT LOCATIONS OF CONDUIT RUNS AND EQUIPMENT.

7. ALL FEEDERS, SYSTEMS, CONTROL WIRING, MISCELLANEOUS AUXILIARY SYSTEMS, ETC., PASSING THROUGH THE AREA OF WORK SHALL BE MAINTAINED AT ALL TIMES, REMAIN IN SERVICE, CONTINUOUS AND UNINTERRUPTED. ANY DAMAGE, DISRUPTION OR DISCONNECTION SHALL BE IMMEDIATELY REPAIRED, REPLACED AND/OR REROUTED AS REQUIRED TO MAINTAIN CONTINUITY OF SYSTEMS. ANY EXISTING SERVICE OR OPERATING SYSTEM WHICH MUST BE INTERRUPTED SHALL BE SUPPLIED WITH A TEMPORARY SERVICE FOR CONTINUATION OF THE NORMAL OPERATIONS OF THE FACILITY.

8. ANY EQUIPMENT THAT REQUIRES REMOVAL FROM EXISTING LOCATION FOR RE-USE OR TO BE RETURNED TO OWNER SHALL BE INSPECTED AND TESTED TO CONFIRM EQUIPMENT OPERATES AS INTENDED. OWNER SHALL BE NOTIFIED OF ANY EQUIPMENT THAT DOES NOT OPERATE AS INTENDED BEFORE REMOVAL.

9. CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE.

10. OUTLET BOXES THAT CANNOT BE REMOVED DUE TO FLUSH MOUNTING IN PARTITIONS SHALL BE FILLED WITH GROUT, PATCHED AND FINISHED FLUSH TO MATCH EXISTING WALL CONDITIONS.

11. IN GENERAL, THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
    a. PROVIDE ALL DEMOLITION AS REQUIRED OF EXISTING SYSTEMS REMOVING ALL ITEMS THAT CONFLICT WITH FINISHED DESIGN INTENT AS INDICATED ABOVE.
    b. MODIFY, REPLACE, REPAIR, REVISE ETC., EXISTING SYSTEMS AND/OR EQUIPMENT.
    c. EXTEND EXISTING SYSTEMS AS REQUIRED TO FUNCTION AS SPECIFIED AND IN ACCORDANCE WITH SYSTEM REQUIREMENTS.
    d. NEW SYSTEM COMPONENTS SHALL MATCH EXISTING SYSTEMS PROVISIONS AND BE COMPLETELY COMPATIBLE AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. WHEN REQUIRED, APPROVAL FROM A SYSTEM MANUFACTURER SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO INSTALLING ANY NEW EQUIPMENT OR DEVICES TO AN EXISTING SYSTEM.
    e. ALL EQUIPMENT, DEVICES, OUTLETS, COMPONENTS, ETC., TO BE REUSED SHALL BE CLEANED, REPAIRED AND PLACED IN OPERATING CONDITION. LUMINARIES NOTED TO BE REUSED SHALL BE CLEANED, REPAIRED, PROVIDED WITH NEW LAMPS AND PLACED IN OPERATING CONDITION.
    f. EXISTING OUTLET BOXES MAY BE USED AS NOTED IF OF THE PROPER CONFIGURATION AND SIZE REQUIRED. MODIFICATIONS SHALL BE MADE WHEN REQUIRED SUCH AS PROVIDING EXTENSION RINGS, LOCKNUTS, BUSHINGS, ETC.
    g. EXISTING PANELBOARDS SHALL BE UTILIZED TO THE EXTENT SHOWN ON THE DRAWINGS AND MODIFIED AS REQUIRED TO FACILITATE THE NEW REQUIREMENTS AS INDICATED HEREIN OR SHOWN ON THE DRAWINGS. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER, FRAME SIZE, SHORT CIRCUIT RATING AND TYPE AS EXISTING. WHERE APPLICABLE, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL ADDITIONAL MOUNTING HARDWARE AS REQUIRED BY THE MANUFACTURER.
    h. WHEN EXISTING DEVICES, SWITCHES, EQUIPMENT ETC., ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC., EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.

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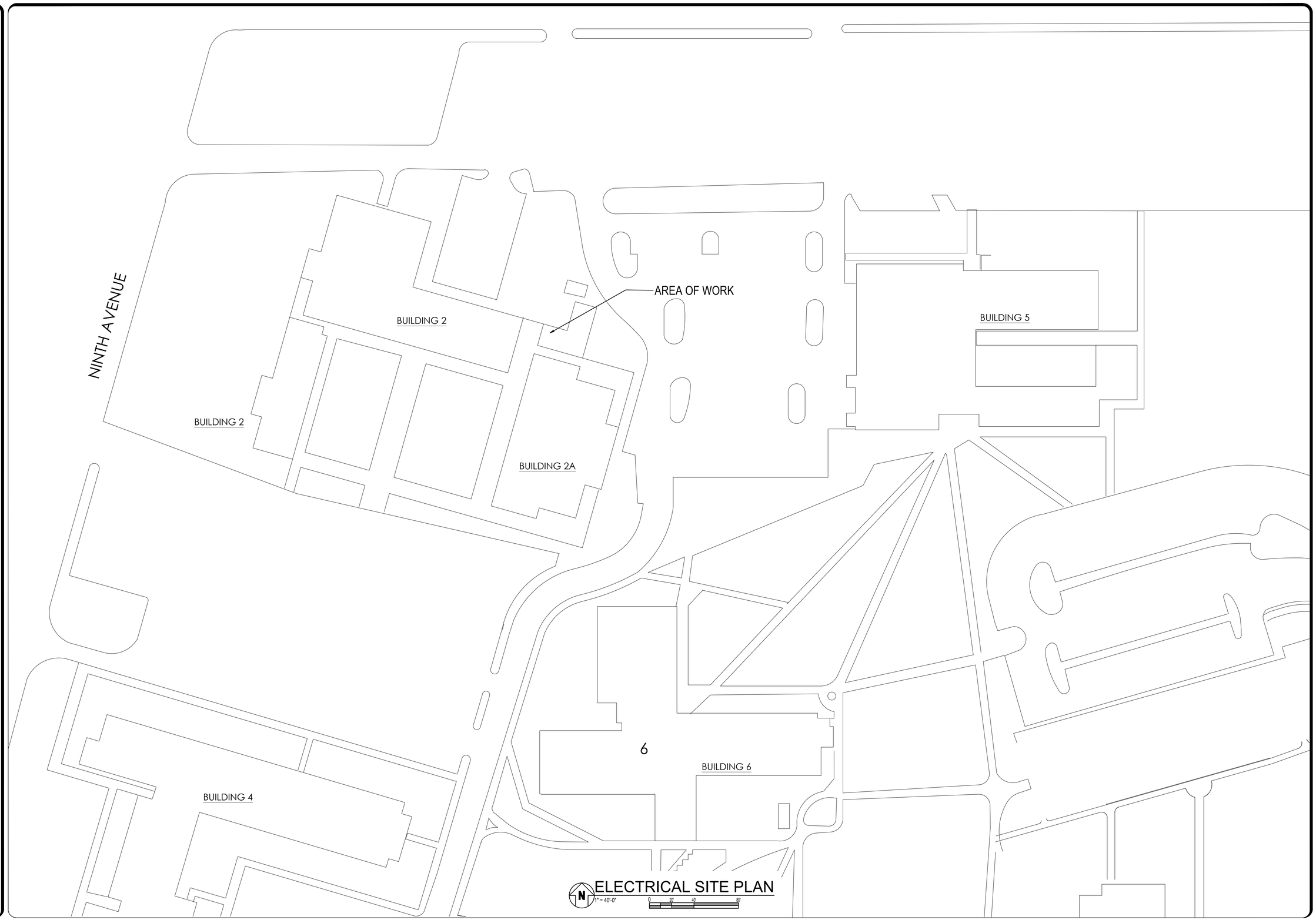
LEGEND AND NOTES

E001



ELECTRICAL SITE PLAN

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ELECTRICAL SITE PLAN

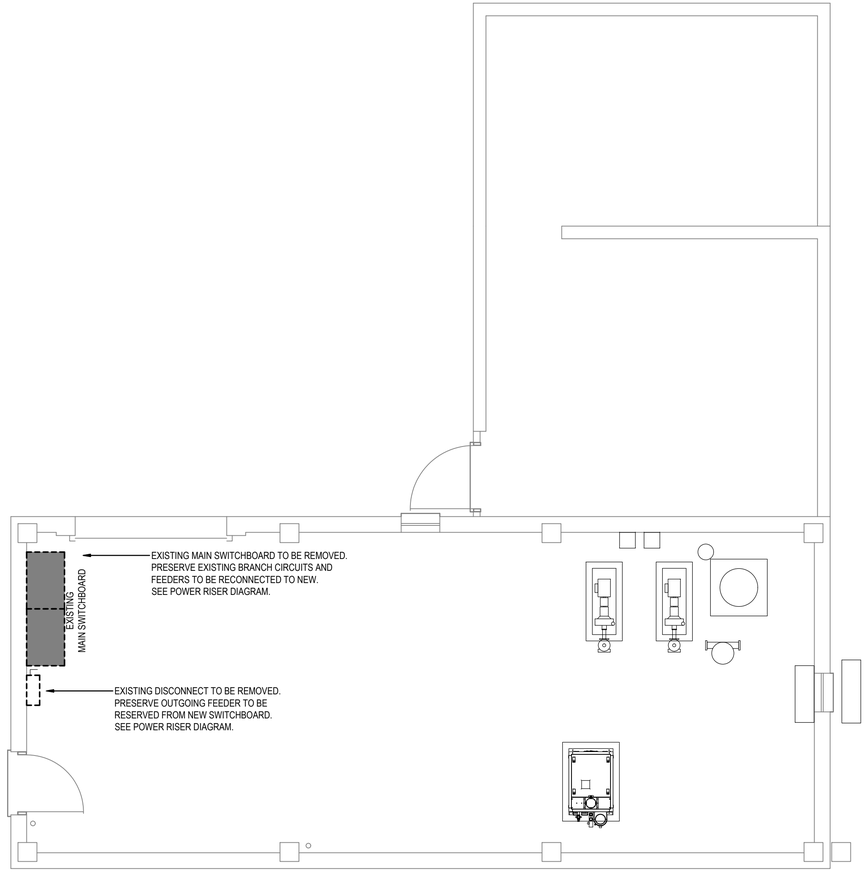
E101

EXISTING UTILITY XF

T

SPECIAL DEMOLITION NOTE

THE LOCATIONS OF ALL ELECTRICAL EQUIPMENT INDICATED (FIXTURES & DEVICES) MAY VARY FROM DRAWING. EXISTING CONDITIONS AND DEMOLITION WORK WAS DETERMINED BY SITE OBSERVATION AND REVIEW OF EXISTING DOCUMENTS WITHOUT THE BENEFIT OF DESTRUCTIVE INVESTIGATION. VERIFY ACTUAL LOCATIONS, TYPES, AND QUANTITIES OF EQUIPMENT AND APPLY DEMOLITION NOTES AS APPROPRIATE FOR THE EQUIPMENT AND ROOM OR AREA.



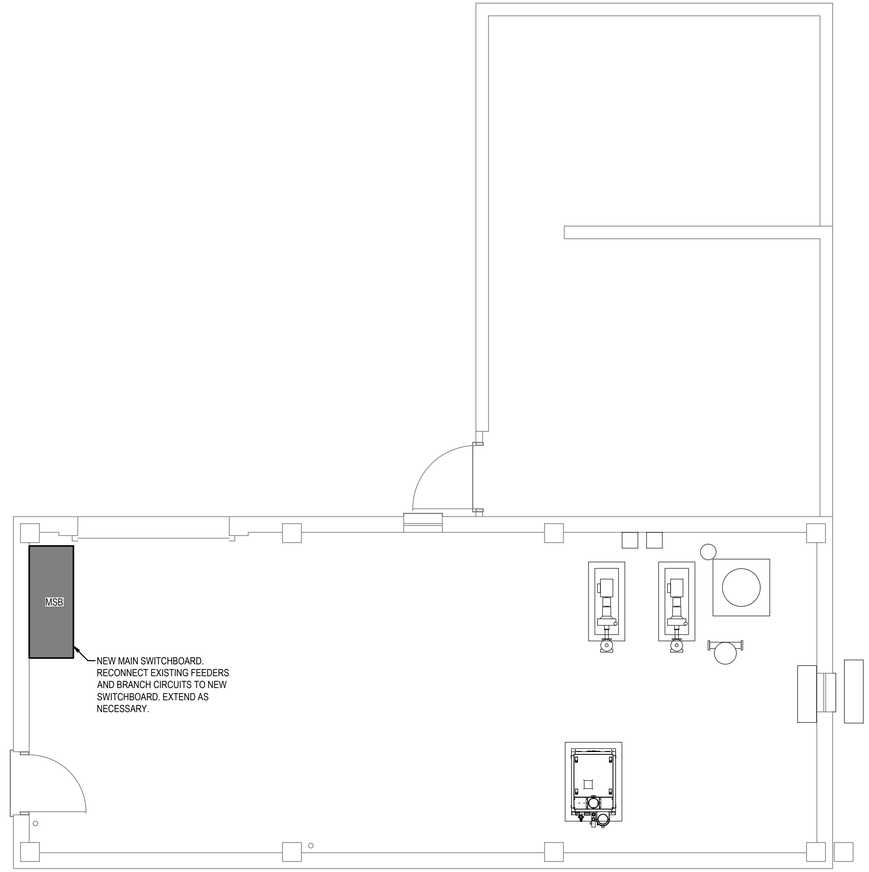
ELECTRICAL DEMOLITION PLAN

1/4" = 1'-0"

0 2' 4' 8'

EXISTING UTILITY XF

T



ELECTRICAL WORK PLAN

1/4" = 1'-0"

0 2' 4' 8'

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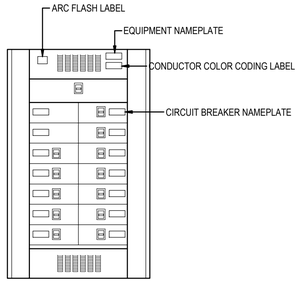
ELECTRICAL WORK PLAN

E201



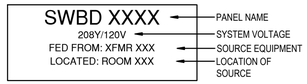
NOTES

1. PROVIDE SWITCHBOARD NAMEPLATE FOR NEW SWITCHGEAR AND SWITCHBOARDS INSTALLED.
2. PROVIDE ARC FLASH LABEL FOR NEW SWITCHGEAR AND SWITCHBOARDS INSTALLED .
3. IF SYSTEM HAS HAS MORE THAN ONE NOMINAL VOLTAGE SYSTEM INSTALL COLOR CODING LABEL. LABEL MAY BE INSTALLED ON INSIDE OF SWITCHBOARD DOOR IF NEEDED.

SWITCHBOARD LABELING
NTS

NOTES

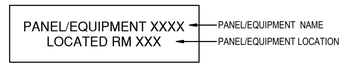
1. PROVIDE LABEL FOR ALL SWITCHBOARDS FEED FROM A FEEDER
2. SEE EQUIPMENT NAMEPLATES DETAIL FOR TEXT/PANEL HEIGHT AND COLOR



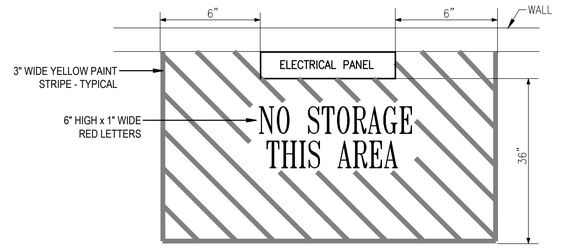
SWITCHBOARD NAMEPLATES
NTS

NOTES

1. PROVIDE LABEL FOR CIRCUIT BREAKERS IN SWITCHBOARDS AND SWITCHGEAR
2. 1/4" BLACK LETTERS ON WHITE PANEL



CIRCUIT BREAKER NAMEPLATES
NTS



TYPICAL FLOOR MARKING AT ELECTRICAL PANELS
NTS

NOTES

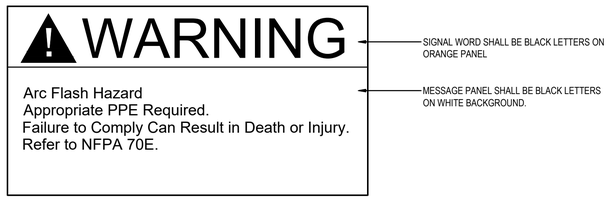
1. PROVIDE NAMEPLATE ON SERVICE EQUIPMENT AS REQUIRED BY NEC 110.24(A). SEE ARC FLASH LABEL DETAIL
2. 1/4" WHITE LETTERS ON BLACK PANEL.

AVAILABLE FAULT CURRENT
XXXXXX AMPS
DATE:DD/MM/YYYY

AVAILABLE FAULT CURRENT
NTS

NOTES

1. PROVIDE LABEL IF NOT PROVIDED BY MANUFACTURER.
2. PROVIDE ARC FLASH LABEL FOR EACH PIECE OF NEW EQUIPMENT AS REQUIRED BY 110.16(A)
3. SIGNAL WORD LETTER HEIGHT MUST BE 50% TALLER THAN MESSAGE PANEL TEXT HEIGHT
4. SIGNAL WORD LETTERS MUST BE UPPERCASE AND USE SANS SERIF FONT.



ARC FLASH LABELS
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ELECTRICAL DETAILS

E301

LROY - 11:25 AM - j:\current jobs\Jobs 23\23011 - psc building 2 main gear replacement\Drawings\workinget\Sheets\E401 SINGLE LINE POWER RISER & PANEL SCHEDULE.dwg

NEW MAIN SWITCHBOARD - OWNER PROVIDED AND CONTRACTOR INSTALLED

MSB

SYSTEM	208/120V	3Φ	4W	
RATING	1600A	M.C.B.		42,000 AIC MINIMUM
ENCLOSURE	NEMA 1	FREE STANDING		
OPTIONS	BOLT ON BREAKERS; SERVICE RATED			

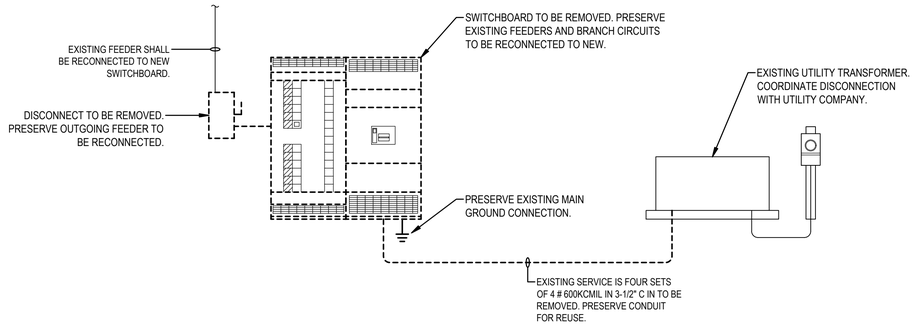
CKT #	SERVING	CKT BKR UNIT	CKT BKR TRIP	CKT BKR POLE	
1	UNIT 2 LECTURE ROOMS	LSI	400	3	
2	PANEL MP	LSI	600	3	
3	HWP-2-1		35	3	
4	HWP-2-2		35	3	
5	EXIT LIGHTS		20	3	
6	BOILER ROOM LIGHTS		20	1	
7	BOILER B-2-1		20	1	
8	TRANE CONTROLS		20	1	
9	MINI SPLIT DAC-2-1		30	2	
10	UNKNOWN		20	1	
11	UNKNOWN		20	1	
12	UNKNOWN		20	1	
13	UNKNOWN		20	1	
14	UNKNOWN		20	1	
15	SPARE	LSI	400	3	
16	SPARE	LSI	250	3	
17	SPARE	LSI	250	3	
18	SURGE PROTECTION		60	3	

NOTES:

1 MAIN BREAKER SHALL HAVE LSI TRIP UNITS. COORDINATE FINAL SETTINGS WITH ENGINEER OF RECORD.
2 TRACE AND VERIFY ALL EXISTING UNKNOWN CKTS. PROVIDE APPROPRIATE NAMEPLATE ON SWITCHBOARD NEXT TO SERVING BREAKER.
3 PROVIDE ALL BREAKERS 400A AND GREATER WITH BACNET CAPABILITY OR BACNET CAPABLE METER FOR SUCH BREAKERS.
4 SWITCHBOARD SHALL HAVE DIGITAL METER ON THE MAIN BREAKER BUILT INTO THE GEAR.
5 CONTRACTOR SHALL ENGAGE MANUFACTURER TO COMPLETE STARTUP SERVICES. STARTUP SERVICES ARE INCLUDED WITH THE SWITCHBOARD PROVIDED BY

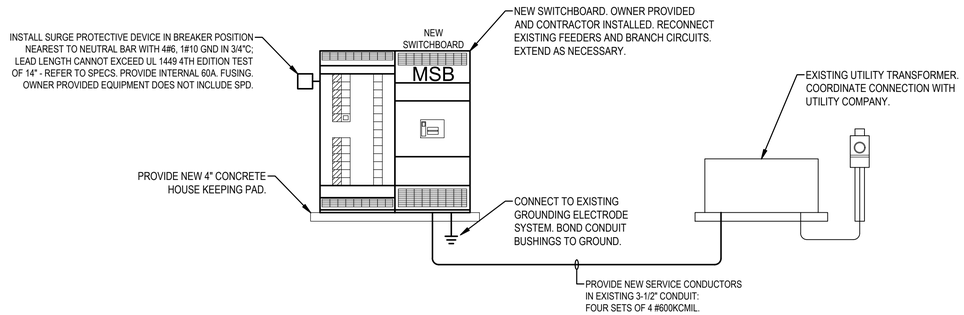
SPECIAL NOTE

ALL CONTRACTORS SHALL CONDUCT A PREBID WALK THROUGH OF THE PROJECT AREA.



PARTIAL POWER RISER - DEMO

NTS



PARTIAL POWER RISER - NEW

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CHECKED BY:	CL
DATE:	2024-06-28
JOB NUMBER:	23011

SINGLE LINE POWER RISER & PANEL SCHEDULE

E401