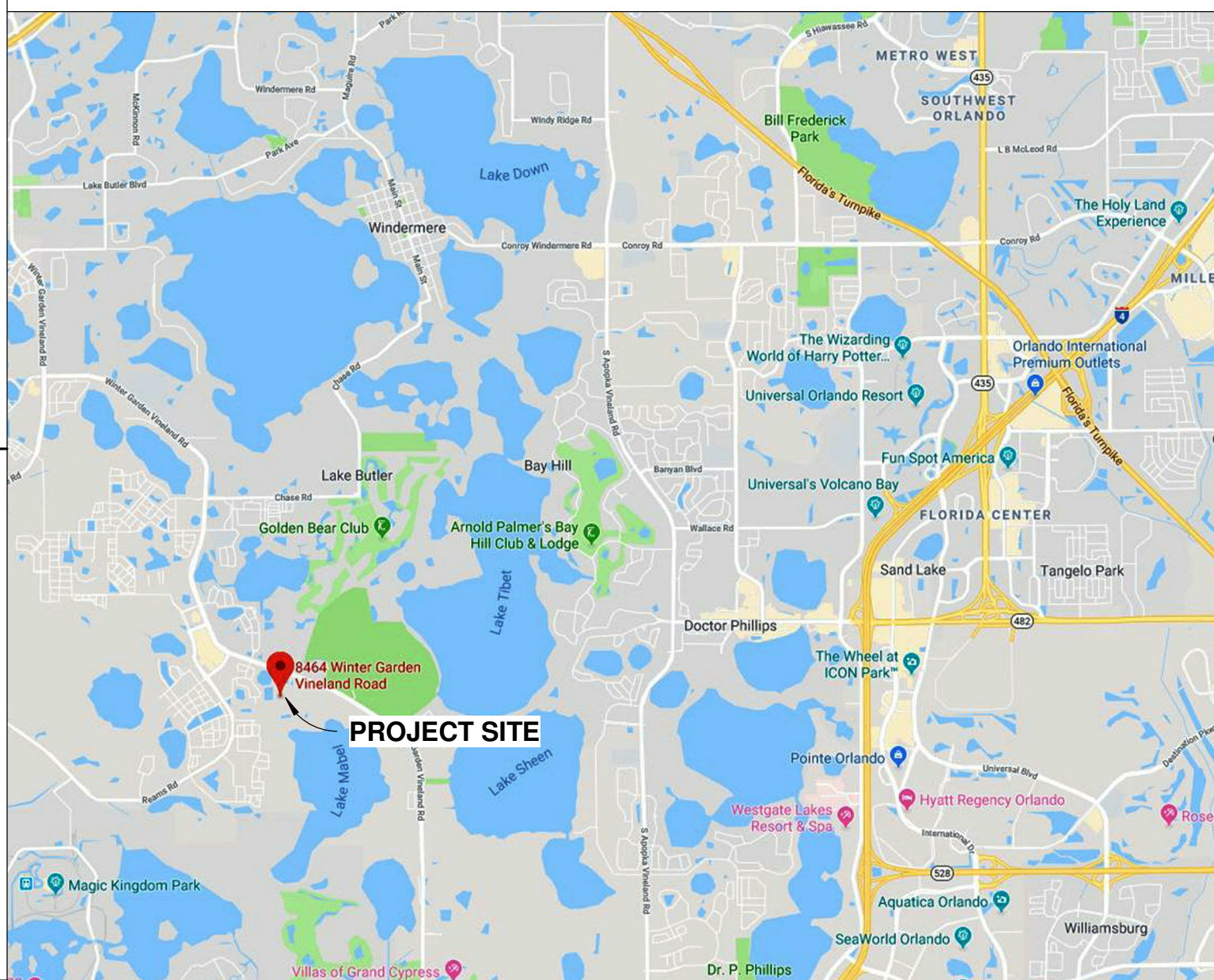
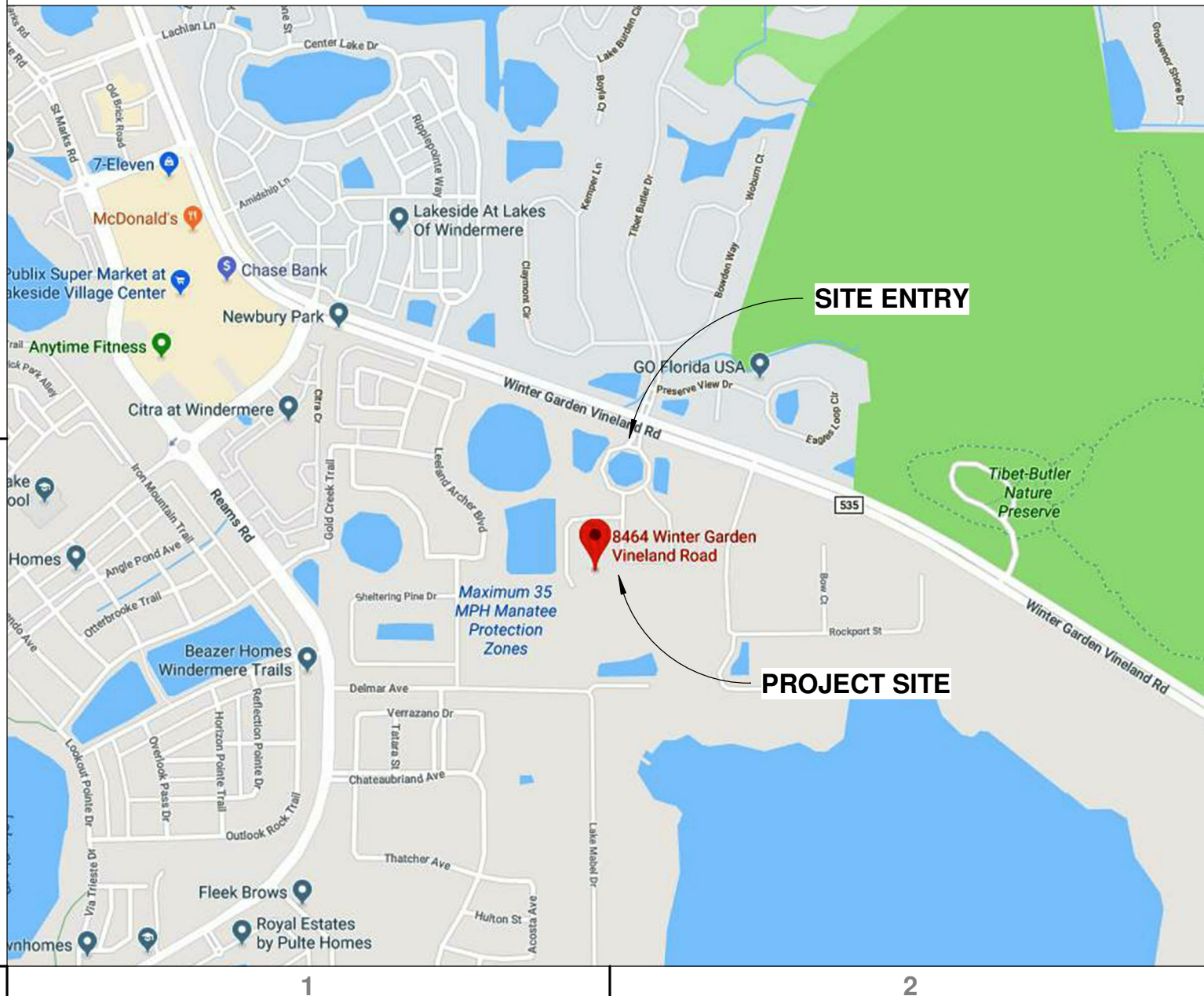


A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
**FBC WINDERMERE LAKESIDE CAMPUS**  
 NOTE: PERSPECTIVE RENDERINGS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED FOR REFERENCE DURING CONSTRUCTION.

VICINITY MAP



LOCATION MAP



DRAWING SHEET INDEX

GENERAL	STRUCTURAL	ARCHITECTURAL	FIRE PROTECTION	PLUMBING	ELECTRICAL
G-001 COVER SHEET G-002 PROJECT STANDARDS, LEGENDS AND CODE REVIEW G-101 LIFE SAFETY PLAN - FIRST FLOOR	BRITT, PETERS & ASSOCIATES, INC. 101 FALLS PARK DRIVE, SUITE 601 GREENVILLE, SC 29601 FRANK REPP 864-271-8869 FREPPI@BRITTPETERS.COM	EQUIP STUDIO 245 NORTH MAIN STREET, SUITE 200 GREENVILLE, SC 29601 CONTACT: STEPHEN TROUTMAN 864-520-2086 STEPHENTROUTMAN@EQUIPSTUDIO.COM	DEVITA & ASSOCIATES, INC. 33 VILLA ROAD, SUITE 300 GREENVILLE, SC 29615 TREY MORAN 864-232-6642 TMORAN@DEVITAINC.COM	DEVITA & ASSOCIATES, INC. 33 VILLA ROAD, SUITE 300 GREENVILLE, SC 29615 TREY MORAN 864-232-6642 TMORAN@DEVITAINC.COM	DEVITA & ASSOCIATES, INC. 33 VILLA ROAD, SUITE 300 GREENVILLE, SC 29615 TRAVIS WALKER 864-232-6642 TWALKER@DEVITAINC.COM
	S-000 GENERAL NOTES S-101 FOUNDATION PLAN - WORSHIP BUILDING S-102 ROOF FRAMING PLAN - WORSHIP BUILDING S-201 FOUNDATION PLAN - CHILDREN'S BUILDING S-202 ROOF FRAMING PLAN - CHILDREN'S BUILDING S-300 SECTIONS AND ELEVATIONS S-400 CONCRETE DETAILS - REINFORCING S-410 CONCRETE DETAILS - SLAB ON GRADE S-500 STRUCTURAL STEEL DETAILS S-510 METAL DECKING DETAILS	AD051 DEMO PLAN - SITE AND MODULARS AD101 DEMO PLAN - FIRST FLOOR A-051 ARCHITECTURAL SITE PLAN A-100 OVERALL FIRST FLOOR PLAN A-101 FIRST FLOOR PLAN (WORSHIP) A-102 FIRST FLOOR PLAN (EDUCATION) A-121 FIRST FLOOR RCP (WORSHIP) A-122 FIRST FLOOR RCP (EDUCATION) A-151 ROOF PLAN A-201 EXTERIOR ELEVATIONS A-202 EXTERIOR ELEVATIONS A-251 INTERIOR ELEVATIONS A-252 INTERIOR ELEVATIONS A-253 INTERIOR ELEVATIONS A-301 BUILDING SECTIONS A-302 BUILDING SECTIONS A-401 RESTROOMS A-411 CASEWORK DETAILS A-421 ENLARGED PLANS & DETAILS A-501 WALL TYPES, FLOOR & ROOF TYPES A-601 DOOR, HARDWARE AND GLAZING SCHEDULES & DETAILS A-700 FINISH SPECIFICATIONS A-701 FIRST FLOOR FINISH PLAN (WORSHIP) A-702 FIRST FLOOR FINISH PLAN (EDUCATION)	FP-101 FIRE PROTECTION NOTES & FLOOR PLAN	P-001 PLUMBING LEGEND AND NOTES P-002 PLUMBING DETAILS P-101 PLUMBING SANITARY WASTE & VENT PLAN (WORSHIP) P-102 PLUMBING SANITARY WASTE & VENT PLAN (EDUCATION) P-111 PLUMBING DOMESTIC WATER PLAN (WORSHIP) P-112 PLUMBING DOMESTIC WATER PLAN (EDUCATION) P-151 PLUMBING ROOF PLAN P-151 SANITARY WASTE & VENT RISER DIAGRAM P-162 DOMESTIC WATER RISER DIAGRAM	E-001 ELECTRICAL LEGEND AND NOTES E-002 ELECTRICAL DETAILS E-101 ELECTRICAL POWER PLAN (WORSHIP) E-102 ELECTRICAL POWER PLAN (EDUCATION) E-121 ELECTRICAL LIGHTING PLAN (WORSHIP) E-122 ELECTRICAL LIGHTING PLAN (EDUCATION) E-151 ELECTRICAL ROOF PLAN E-161 ELECTRICAL PANELS AND RISER DIAGRAM
	CIVIL (UNDER SEPARATE CONTRACT WITH OWNER)		MECHANICAL DEVITA & ASSOCIATES, INC. 33 VILLA ROAD, SUITE 300 GREENVILLE, SC 29615 TREY MORAN 864-232-6642 TMORAN@DEVITAINC.COM		
			M-001 MECHANICAL SCHEDULES, LEGEND, AND NOTES M-002 MECHANICAL DETAILS M-101 MECHANICAL FLOOR PLAN (WORSHIP) M-102 MECHANICAL FLOOR PLAN (EDUCATION) M-151 MECHANICAL ROOF PLAN		

A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
**FBC WINDERMERE LAKESIDE CAMPUS**  
 8464 WINTER GARDEN VINELAND ROAD  
 ORLANDO, FL 32836

#	DESCRIPTION	DATE
B	DESIGN DEVELOPMENT	11/01/2019
A	SCHEMATIC DESIGN	08/09/2019

SCHEDULE OF REVISIONS

**DESIGN DEVELOPMENT**  
 PROJECT NUMBER: 190106  
 PROJECT DATE: 11/01/2019  
 PROJECT MANAGER: SLT  
 PROJECT TEAM: RSK, HWB

**COVER SHEET**

**G-001**

NOTICE: DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN.

ABBREVIATIONS

Table of abbreviations for architectural elements, including AIR CONDITIONING, ADMINISTRATION, ALUMINUM, etc.

GRAPHIC SYMBOL LEGEND

Graphic symbols for drawing title symbols, detail symbols, section symbols, elevation symbols, plan symbols, glazing symbols, room indicators, and general annotation symbols.

CODE REVIEW

Code review section containing codes in use, FBC (Building) Chapter 6 - Types of Construction, FBC (Building) Chapter 7 - Fire and Smoke Protection Features, FBC (Building) Chapter 5 - Height and Area Modifications, FBC (Building) Chapter 6 - Types of Construction, and FBC (Building) Chapter 12 - Fire Protection Systems.

CODE REVIEW

Code review section containing FBC (Building) Chapter 6 - Types of Construction (cont.), FBC (Building) Chapter 7 - Fire and Smoke Protection Features (cont.), FBC (Building) Chapter 5 - Height and Area Modifications (cont.), FBC (Building) Chapter 6 - Types of Construction (cont.), and FBC (Building) Chapter 12 - Fire Protection Systems (cont.).

CODE REVIEW

Code review section containing FBC (Accessibility), FBC (Building) Chapter 15 - Roof Assemblies And Rooftop Structures, FBC (Building) Chapter 17 - Special Inspections - Required, FBC (Plumbing) Chapter 4 - Fixtures, Faucets and Fixture Fittings, FBC (Energy Conservation) Table C402.1.3 BUILDING ENVELOPE REQUIREMENTS - OPAQUE ASSEMBLIES, and FBC (Energy Conservation) Table C402.1.3 BUILDING ENVELOPE REQUIREMENTS - OPAQUE ASSEMBLIES (Partial Table - Climate Zone 2A).

MATERIAL LEGEND

Material legend table showing plan and section symbols for Earth, Concrete, Brick, Metal Panel, Steel, Iron, Aluminum, Wood Blocking, Plywood, Stone Wool Insulation, Batt Loose Fill Insulation, and Rigid Insulation.

Material legend symbols for elevation indicators, typical dimension indicators, 3D view indicators, and revision indicators.

Material legend symbols for column grid reference, elevation indicators, typical dimension indicators, 3D view indicators, and revision indicators.

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NOTE: FINAL CODE REVIEW ANALYSIS IN PROGRESS - NOT FOR CONSTRUCTION OR PERMIT.

A PHASE 01 FACILITY RENOVATION & EXPANSION FOR: FBC WINDERMERE LAKESIDE CAMPUS 8464 WINTER GARDEN VINELAND ROAD ORLANDO, FL 32836

SCHEDULE OF REVISIONS table with columns for revision number, description, and date.

DESIGN DEVELOPMENT PROJECT NUMBER: 190106 PROJECT DATE: 11/01/2019 PROJECT MANAGER: SLT PROJECT TEAM: RSK, HWB

PROJECT STANDARDS, LEGENDS AND CODE REVIEW

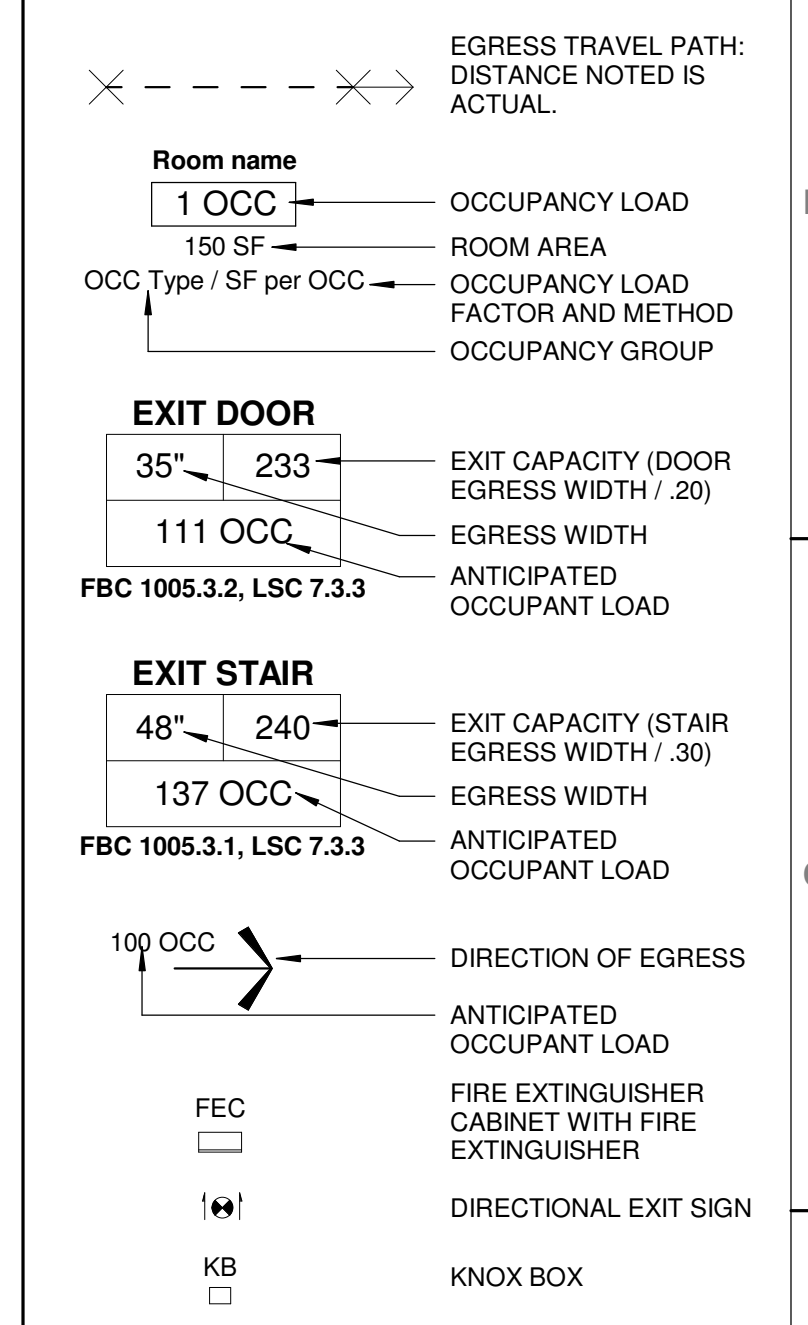
G-002

**GENERAL NOTES**

A. REQUIRED SIGNAGE TO BE PROVIDED IN ALL ASSEMBLY ROOMS/SPACES WITH OCCUPANT LOADS GREATER THAN 50. REFER TO OCCUPANT LOAD TABLE FOR CALCULATED LOADS ON LIFE SAFETY PLANS. USE GREATER OF ACTUAL OR CALCULATED OCCUPANT LOADS FOR POSTED SIGNAGE.  
 B. CORRIDORS ARE USED FOR CIRCULATION PURPOSES ONLY. ANY PRE-FUNCTION PROGRAM OCCURS IN ROOMS WITH CALCULATED LOADS. CURRENT SPACE DESIGN IS DETERMINED BY CIRCULATION PATHS FROM ADJACENT ROOMS. WHEN ACCOUNTING FOR REQUIRED CORRIDOR WIDTHS IN THIS AREA, NO OCCUPIABLE SQUARE FOOTAGE AREA REMAINS.

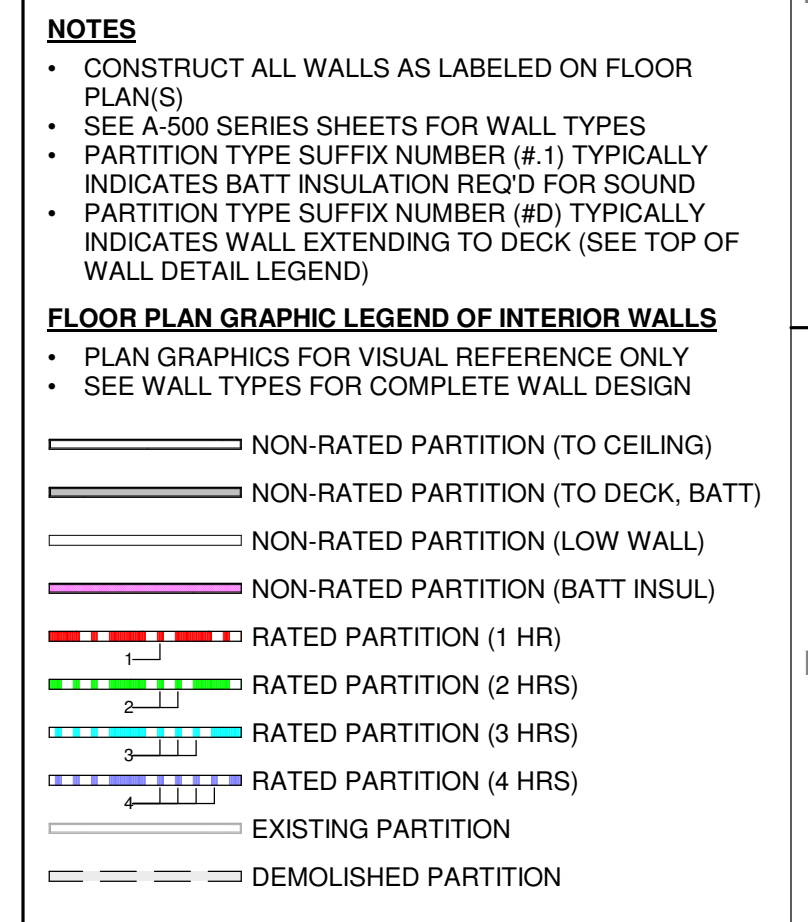
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**LIFE SAFETY LEGEND**

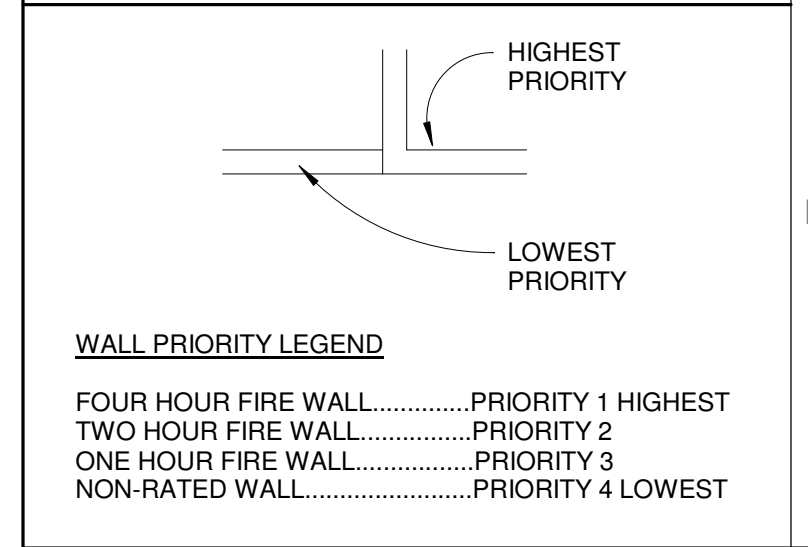


**LIFE SAFETY NOTES**  
 1. PROVIDE FBC 2017 REQUIRED SIGNAGE WITH ACCOMPANYING TACTILE TEXT FOR APPROPRIATE CONDITIONS, SUCH AS IDENTIFICATION OF ELECTRICAL ROOMS, THE FIRE RISER ROOM, FIRE DOORS, RESTROOMS, AND MAXIMUM OCCUPANCY LOADS FOR ASSEMBLY SPACES.

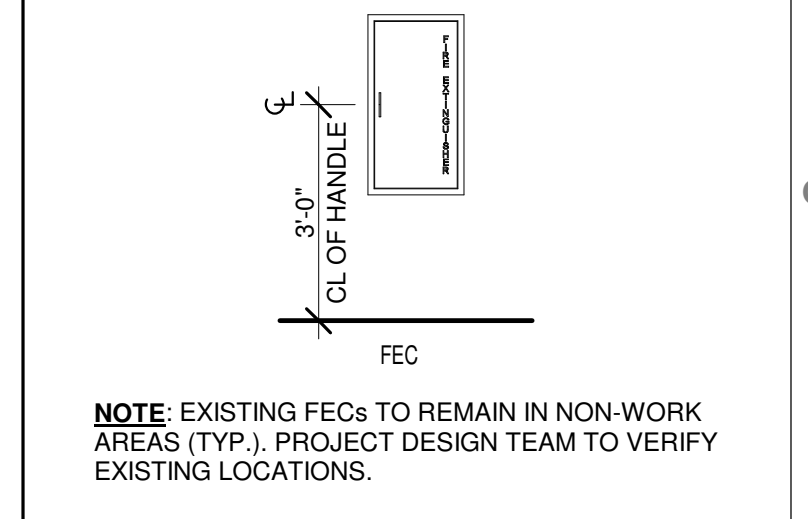
**PARTITION LEGEND**



**WALL PRIORITY**



**FEC DETAILS**



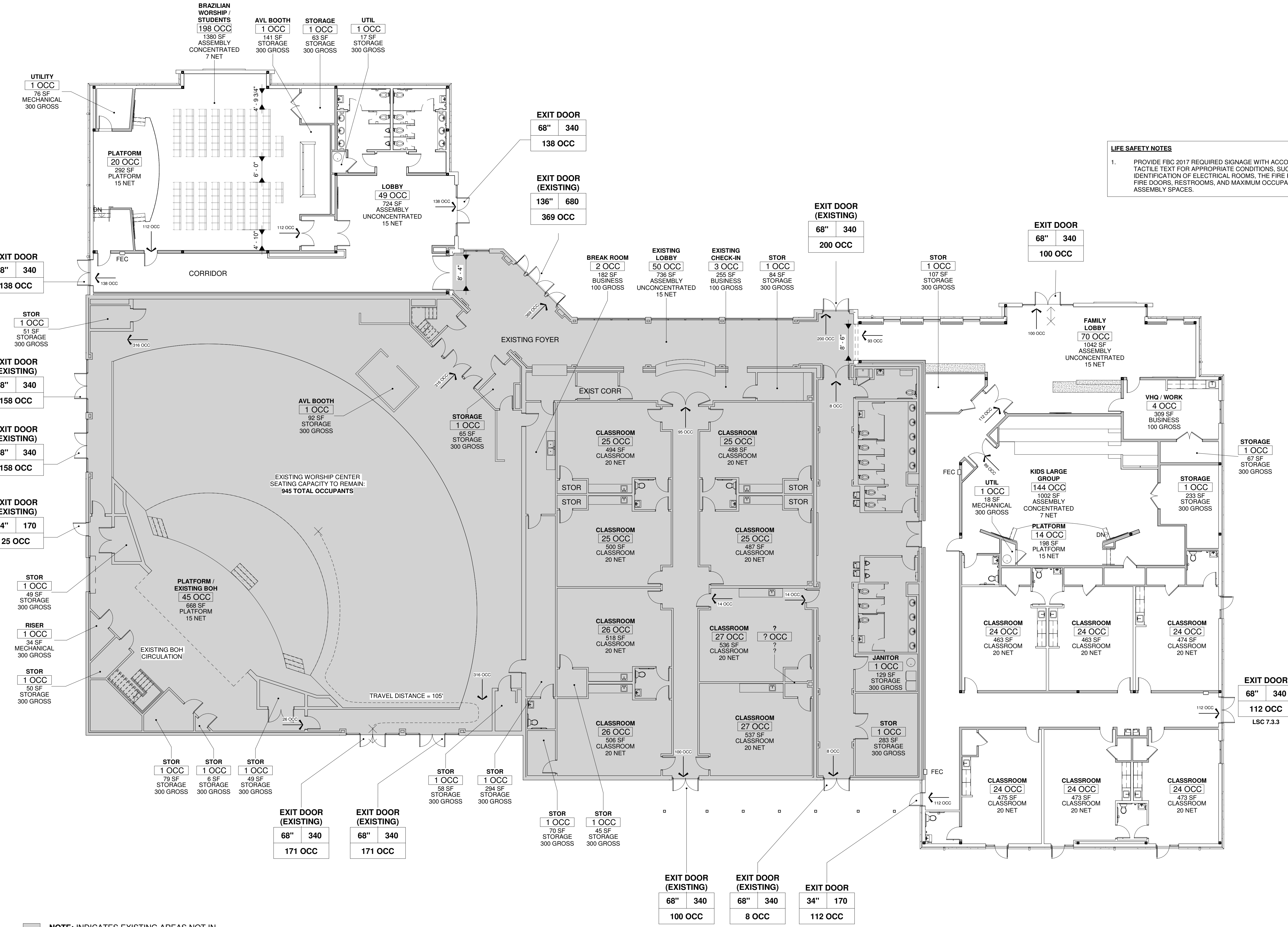
**A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:**  
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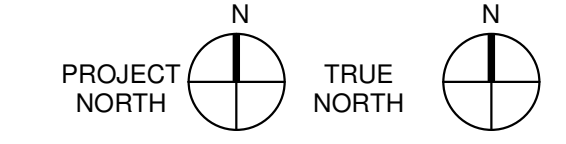
**LIFE SAFETY PLAN - FIRST FLOOR**



NOTE: INDICATES EXISTING AREAS NOT IN PROJECT DESIGN WORK SCOPE.

**NOTE: FINAL CODE REVIEW ANALYSIS IN PROGRESS - NOT FOR CONSTRUCTION OR PERMIT.**

**H1 LIFE SAFETY PLAN - FIRST FLOOR**  
 3/32" = 1'-0"



WIRING DEVICE SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	HOMERUN TO LIGHTING/SERVICE PANEL. HOMERUN INDICATES PANEL NAME AND CIRCUIT NUMBER OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT (1" UNDERGROUND) UNLESS NOTED OTHERWISE. HOMERUNS MAY BE COMBINED INTO A COMMON RACEWAY FOR 20A SINGLE PHASE CIRCUITS ONLY IF DEDICATED NEUTRALS ARE USED OR HANDLE TIES ARE PROVIDED ON CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SAME TIME. MAXIMUM OF (6) #12 AWG CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED IN RACEWAY, COMPLY WITH NEC FOR CONDUCTOR DERATING AND CONDUIT FILL.
	CONDUIT STUB
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
	ELECTRICAL CONNECTION TO EQUIPMENT ITEM 'E101' (LETTER DESIGNATION AS APPLICABLE) - SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
	DUPLEX RECEPTACLE AT 18" AFF. UNO, NEMA 5-20R.
	QUADRUPLEX RECEPTACLE AT 18" AFF. UNO, NEMA 5-20R.
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER, UNO, NEMA 5-20R.
	QUADRUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER, UNO, NEMA 5-20R.
	DUPLEX RECEPTACLE - CEILING MOUNTED, NEMA 5-20R.
	DUPLEX RECEPTACLE - FLOOR MOUNTED, NEMA 5-20R.
	SINGLE RECEPTACLE AT 18" AFF. UNO, NEMA 5-20R.
	FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: GF1 - GROUND FAULT DEVICE IG - ISOLATED GROUND USB - DEVICE WITH USB PORT WP - WEATHERPROOF CR - CORD REEL
	SPECIAL PURPOSE RECEPTACLE - HEIGHT AND TYPE AS NOTED ON DRAWINGS
	SURFACE RACEWAY
	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	JUNCTION BOX - FLOOR MOUNTED. SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POLE
	COMBINATION IN FLOOR POWER / DATA / AV DEVICE.
	PUSHBUTTON
	MOTOR. SEE DRAWINGS FOR DESCRIPTION
	SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING. "3P" INDICATES NUMBER OF POLES. "20" INDICATES FUSE SIZE. "1" INDICATES NEMA ENCLOSURE RATING (1, 3R, 4X, ETC). HEAVY DUTY SAFETY SWITCH UNLESS NOTED OTHERWISE. "NF" INDICATES NON-FUSED.
	COMBINATION MOTOR STARTER
	MOTOR STARTER
	DOOR BELL

FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO
	FIRE ALARM CONTROL PANEL - WALL MOUNTED AT 72" AFF TO TOP, UNO
	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO
	FIRE ALARM PULL STATION AT 44" AFF. UNO
	FIRE ALARM VISUAL DEVICE. ROUGH-IN SUCH THAT BOTTOM OF LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM AUDIO/VISUAL DEVICE. ROUGH-IN SUCH THAT BOTTOM OF VISUAL LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM HORN AUDIO DEVICE. ROUGH-IN SUCH THAT BOTTOM OF DEVICE IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM SYSTEM BELL
	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED, UNO
	FIRE ALARM SMOKE DUCT DETECTOR
	REMOTE TEST STATION FOR FA DUCT DETECTOR
	TAMPER SWITCH
	FLOW SWITCH
	HEAT DETECTOR
	CO DETECTOR
	MAGNETIC DOOR HOLDER, AT 72" AFF UNO
	MOTORIZED SMOKE DAMPER
	FA SMOKE DAMPER

DISTRIBUTION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	ELECTRICAL PANEL, SURFACE MOUNTED.
	ELECTRICAL PANEL, FLUSH MOUNTED.
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH

LIGHTING & CONTROL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	20A SWITCH AT 44" CL AFF. UNO FOR SWITCH ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: a,b - SWITCHING SCHEME D - DIMMER m - MOTOR RATED P - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH o - OCCUPANCY SENSOR v - VACANCY SENSOR
	TWO SWITCHES IN COMMON BOX - FOR MULTILEVEL CONTROL AT 44" CL AFF. UNO
	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED
	LIGHTING CONTROL PHOTOCELL
	DAYLIGHT SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	LIGHT FIXTURE, HALF SHADING INDICATES EMERGENCY BACKUP. "NL" INDICATES 24/7 OPERATION (UNSWITCHED).
	EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EMERGENCY LIGHTING FIXTURE, WITH BATTERY. REFER TO LIGHT FIXTURE SCHEDULE
	EXIT SIGN
	CEILING FAN

TECHNOLOGY SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	VOICE / DATA ROUGH-IN BOX, AT 18" AFF UNO. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.
	VOICE / DATA ROUGH-IN BOX, FLOOR-MOUNTED. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.
	TELEVISION OUTLET, SINGLE GANG BOX WITH SINGLE GANG PLASTER RING. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END. PROVIDE WITH ADJACENT DUPLEX RECEPTACLE.
	SECURITY CAMERA. COORDINATE REQUIREMENTS WITH OWNER.
	WIRELESS ACCESS POINT. COORDINATE REQUIREMENTS WITH OWNER.

LIGHTING CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	LIGHTING TYPE AND CIRCUIT DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER B: LIGHT FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE
	SWITCHING SCHEME OR ZONE

POWER CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	POWER CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER
	DEVICE, JUNCTION BOX, FLOOR BOX, ETC
	EQUIPMENT ABBREVIATION, REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION

ABBREVIATIONS	
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ACH	ABOVE COUNTER HEIGHT
AL	ALUMINUM
BKR	BREAKER
CU	COPPER
CKT	CIRCUIT
DWG	DRAWING
EG	EMPTY CONDUIT
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FU	FUSE
FWE	FURNISHED WITH EQUIPMENT
GC	GENERAL CONTRACTOR
GF/GFCI	GROUND FAULT INTERRUPTER DEVICE
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
LRA	LOCKED ROTER AMPS
LTG	LIGHTING(L)
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
MCCP	MAXIMUM OVERCURRENT CIRCUIT PROTECTION
MSB	MAIN SWITCHBOARD
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REQD	REQUIRED
RTU	ROOFTOP UNIT
SP	SURGE PROTECTED DEVICE
SW	SWITCH
UGND	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER

LIGHTING FIXTURE SCHEDULE							
TYPE	FIXTURE DESCRIPTION	LAMP	FIXTURE	FIXTURE	MOUNTING	CATALOG SERIES	NOTES
		TYPE	WATTAGE	VOLTAGE			
A1	2x4 RECESSED LED FLAT PANEL (4100 LUMEN)	LED (3500K)	40 W	277 V		COLUMBIA: CFP24-4135	
A2	2x2 RECESSED LED FLAT PANEL (3300 LUMEN)	LED (3500K)	32 W	277 V		COLUMBIA: CFP22-3335	
C2	6" PENDANT CYLINDER LED FIXTURE (6000 LUMEN)	LED (3500K)	75 W	277 V		INTENSE LIGHTING: IHOLC6DR-L4-35-D10-40	
EM	ARCHITECTURAL EMERGENCY LIGHT	LED	5 W	277 V		COMPASS: CU2	
HL1	LED HOUSELIGHTING FIXTURE FURNISHED BY AVL	LED	100 W	120 V		Chrome-Q: INSPIRE FULL	
IA	4" LED LENSED STRIP FIXTURE (2500 LUMEN)	LED (3500K)	19 W	277 V		COLUMBIA: LGL4-35LW-EDU	
P1	DECORATIVE FIXTURE	1@10W LED	0 W	277 V		TBD	
PL	SHALLOW SURFACE MOUNT LED PUCK LIGHT	LED, 4000K	14 W			ELITE: RL6701000-DIMTR-12040K90	
R1	6" RECESSED CAN LED FIXTURE (1800 LUMENS)	LED (3500K)	22 W	277 V		PRESCOLITE: LC6SL-6LCSL-18L35K8	
R1E	6" RECESSED CAN LED FIXTURE (1800 LUMENS)	LED (3500K)	22 W	277 V		PRESCOLITE: LC6SLEM-6LCSL-18L35K8EM	
WP	LED WALLPACK	LED (4000K)	50 W	277 V		SYLVANIA: WALPAK-ZC-050-UNV-7-40-CO-EZ	
XC	COMBINATION WHITE THERMOPLASTIC LED EXIT SIGN, RED LETTERS, EMERGENCY BATTERY BACK-UP, LED LIGHTING HEADS	LED	4 W	277 V		COMPASS: CCR	

#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

### DESIGN DEVELOPMENT

PROJECT NUMBER: 190106  
 PROJECT DATE: 10/24/2019  
 PROJECT ENGINEER: TPW  
 PROJECT TEAM: MJW

### ELECTRICAL LEGEND AND NOTES

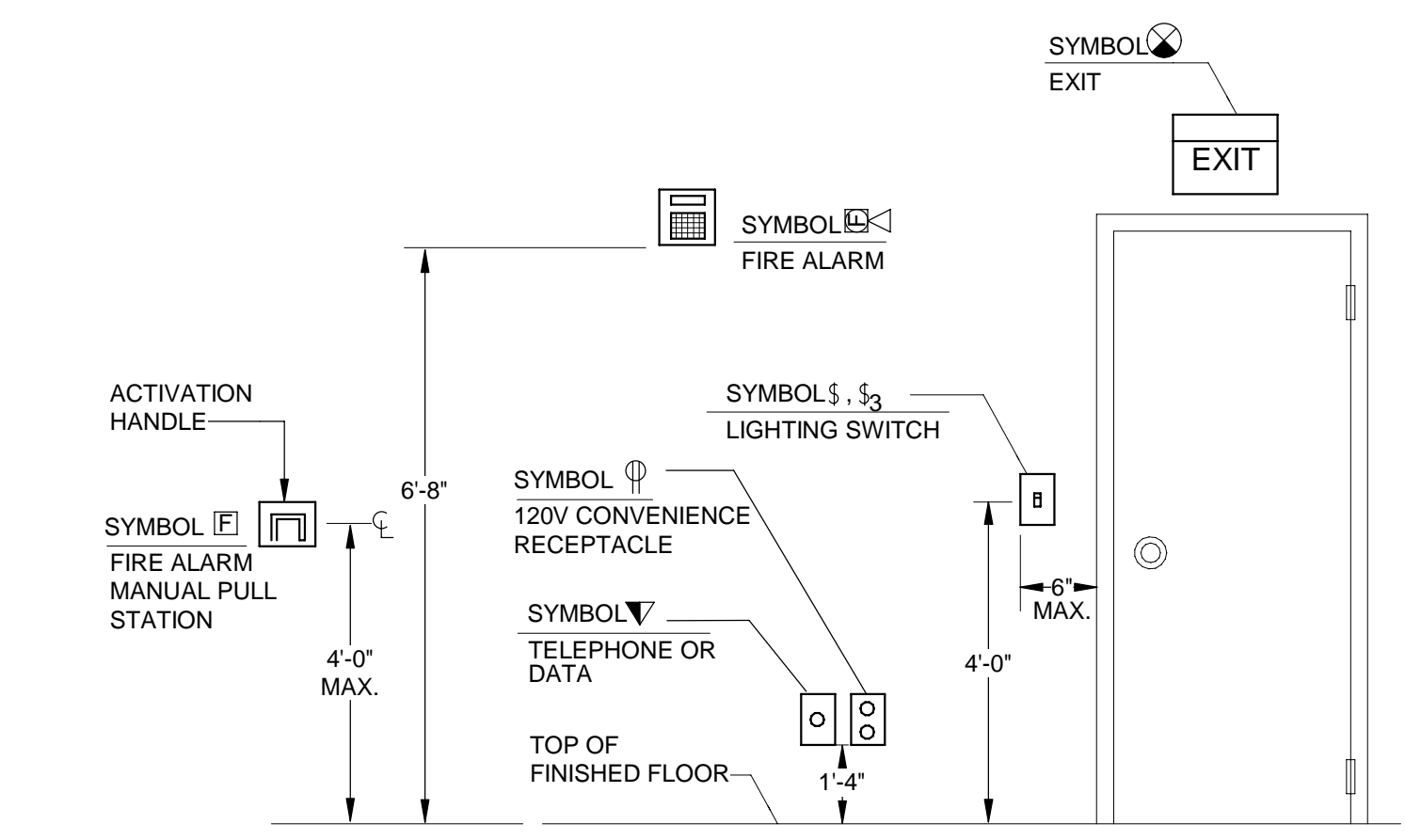
#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

## DESIGN DEVELOPMENT

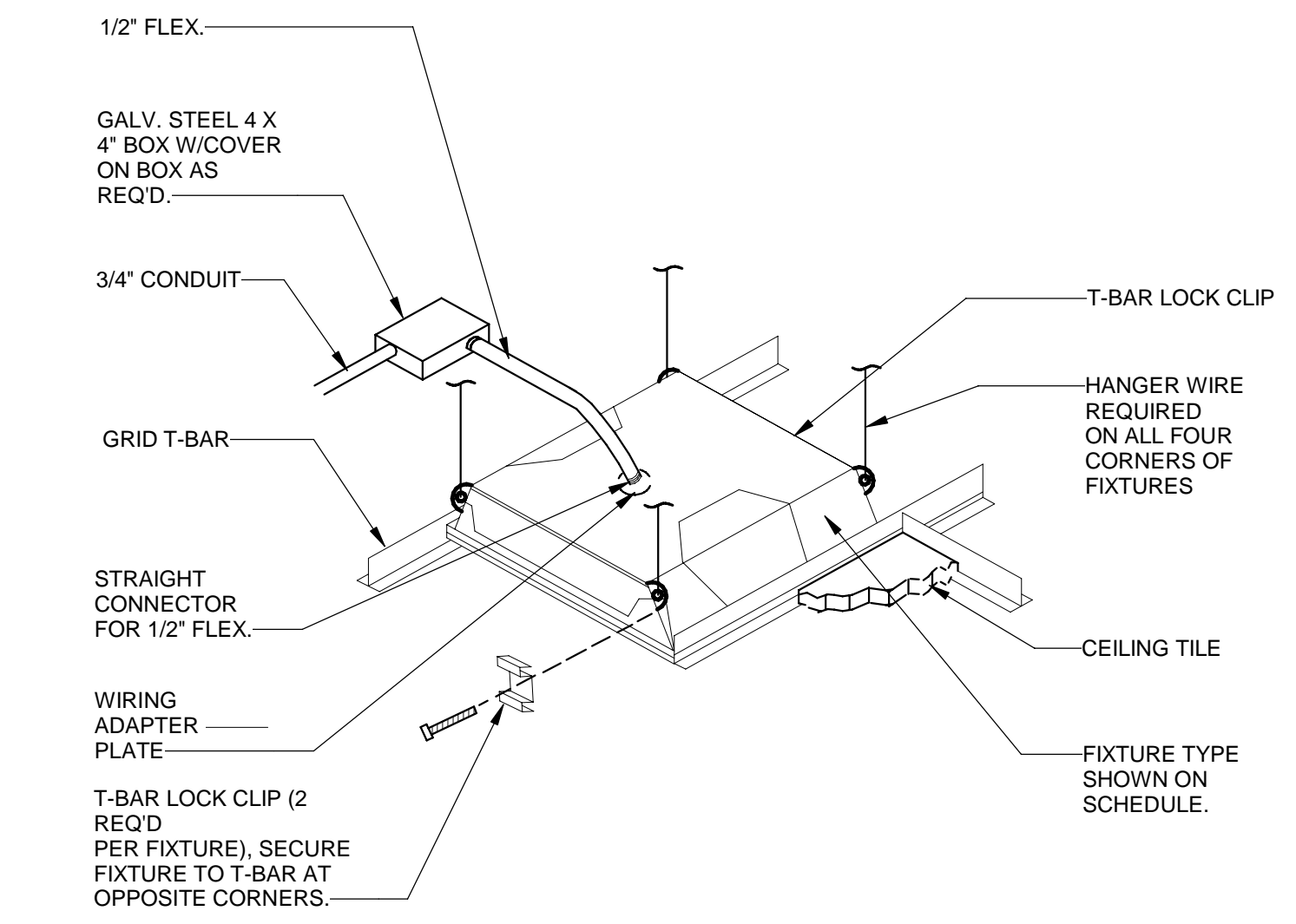
PROJECT NUMBER: 190106  
 PROJECT DATE: 10/24/2019  
 PROJECT ENGINEER: DAI  
 PROJECT TEAM: MJW

## ELECTRICAL DETAILS

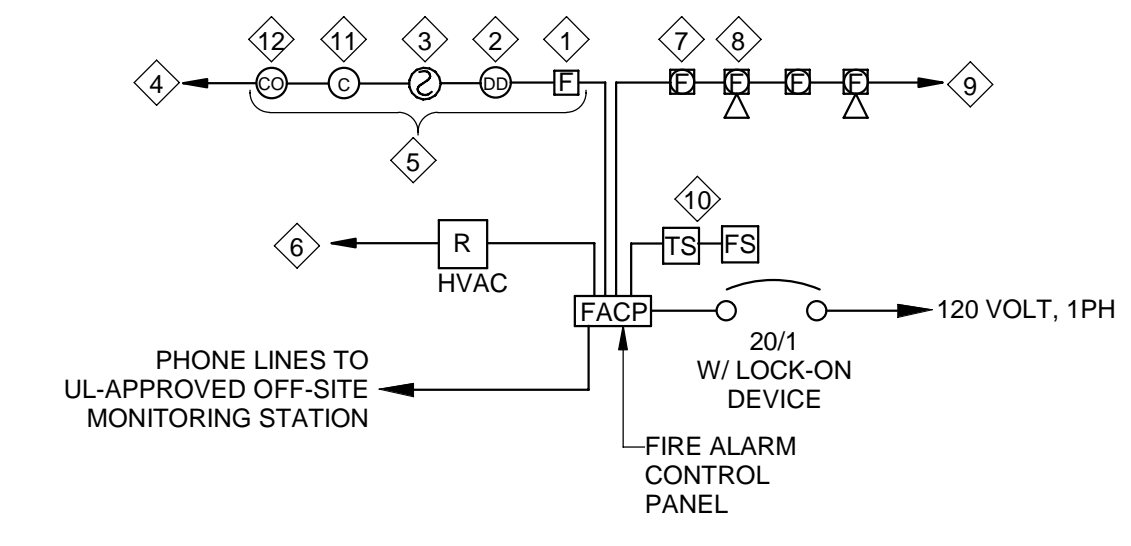
# E-002



**1** TYPICAL DEVICE MOUNTING HEIGHTS  
 NOT TO SCALE  
 E-002

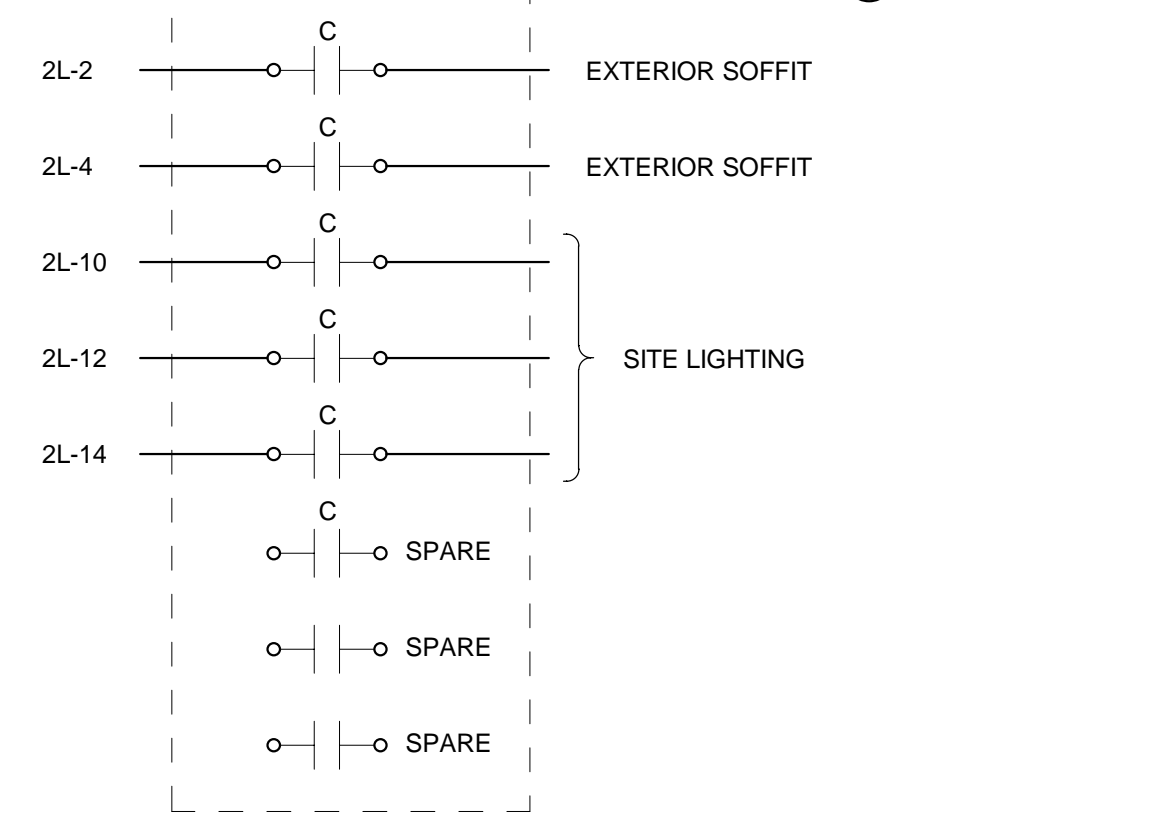
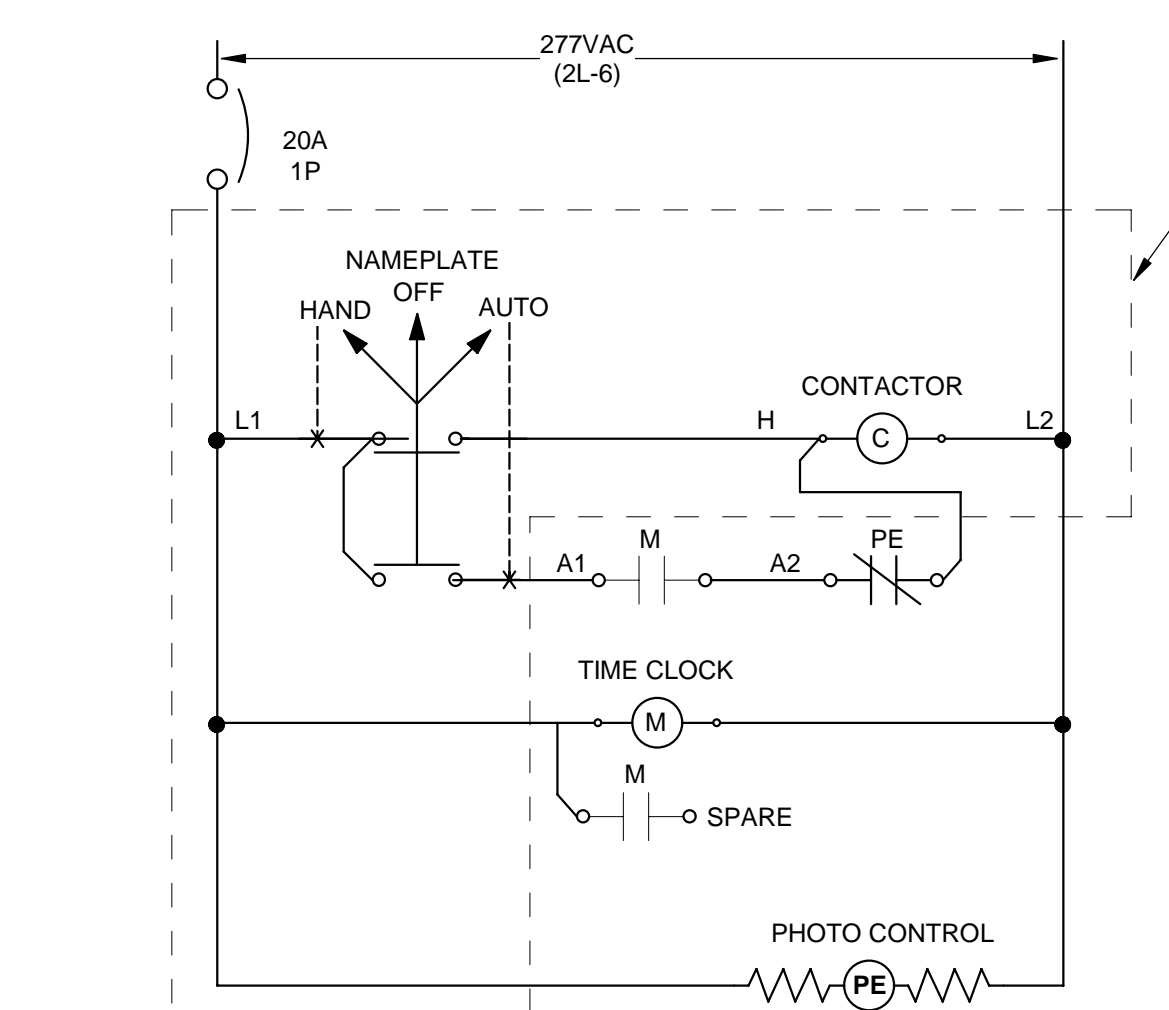


**2** TYPICAL RECESSED FIXTURE MOUNTING  
 NOT TO SCALE  
 E-002



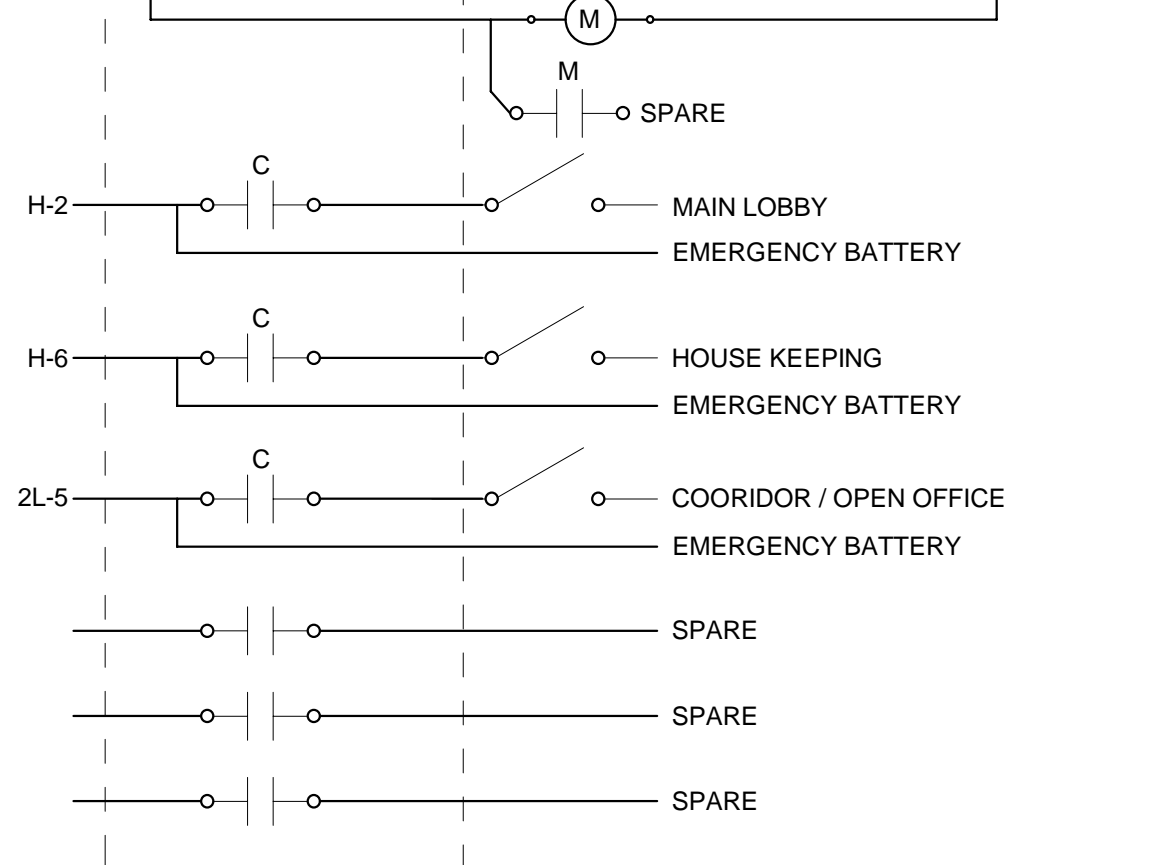
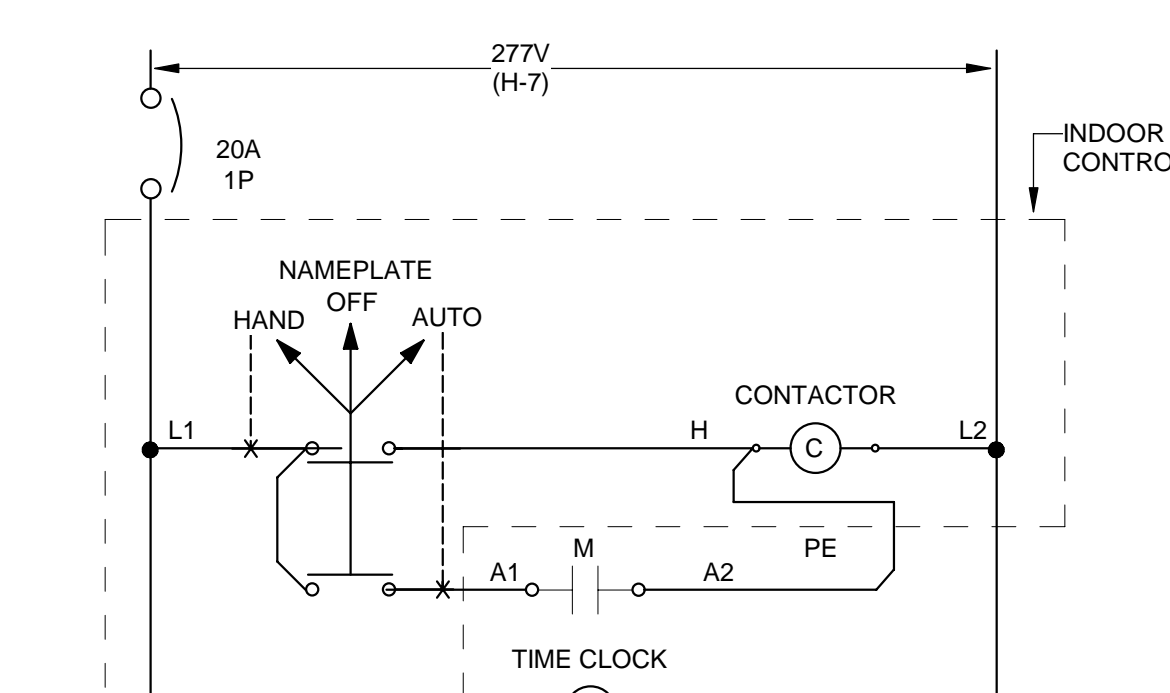
**3** TYPICAL FIRE ALARM RISER  
 NOT TO SCALE  
 E-002

- FIRE ALARM RISER DIAGRAM NOTES:**
- MANUAL PULL STATION.
  - DUCT DETECTOR, ONE PER UNIT IN DUCT.
  - PHOTOELECTRIC SMOKE DETECTOR.
  - COMMUNICATIONS WIRING LOOP. RETURN TO FACP (CLASS 'A' CIRCUIT).
  - TYPICAL SYSTEM INITIATION DEVICE. REFER TO PLANS FOR EXACT TYPES AND QUANTITIES.
  - HVAC SHUT DOWN CIRCUIT. ROUTE TO SHUTDOWN RELAYS AT EACH UNIT.
  - STROBE UNIT, TYPICAL, MOUNTED AT 80" AFF TO MEET ADA REQUIREMENTS.
  - COMBINATION HORN/STROBE UNIT, TYPICAL, MOUNTED AT 80" AFF TO MEET ADA REQUIREMENTS.
  - TO ADDITIONAL HORN/STROBE UNITS NOT INDICATED. RETURN TO FACP (CLASS 'A' CIRCUIT).
  - TAMPER AND FLOW SWITCH CONNECTION AT SPRINKLER RISER.
  - INTERFACE MODULE CONNECTED TO HOOD SUPPRESSION SYSTEM CONTACTS. ACTIVATION OF SUPPRESSION SYSTEM SETS OFF FIRE ALARM AND NOTIFIES THE CONSTANTLY-MONITORED UL LISTED MONITORING STATION.
  - SLEEPING AREA CARBON MONOXIDE DETECTOR



**4** OUTDOOR LIGHTING CONTROLLER  
 NOT TO SCALE  
 E-002

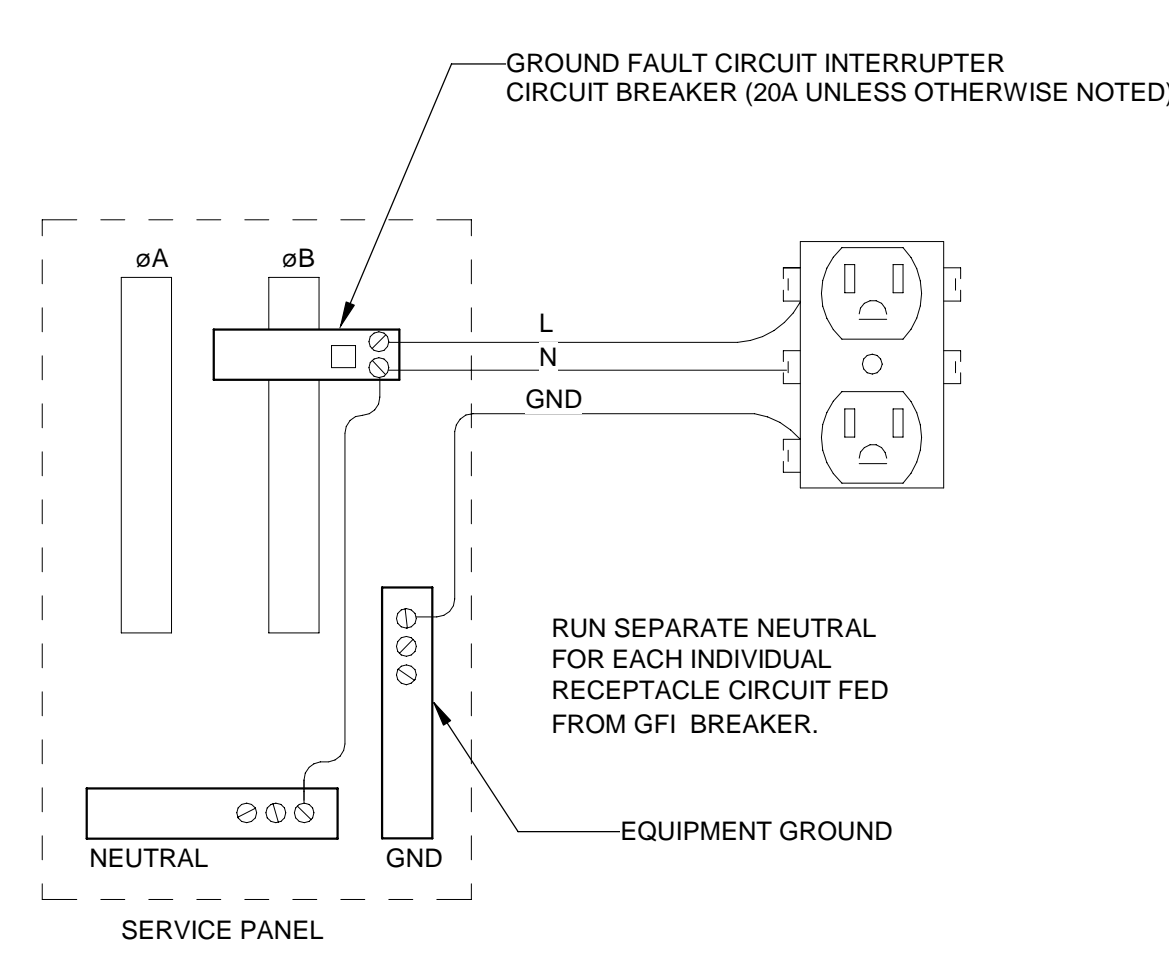
- NOTES:**
- OUTDOOR LIGHTING CONTROLLER SHALL BE IN A NEMA TYPE 1 ENCLOSURE SIZED AS REQUIRED. PROVIDE ENGRAVED NAMEPLATE ON DOOR.
  - H-O-A SWITCH SHALL BE SQUARE D # 9001K5438, OIL TIGHT TYPE OR APPROVED EQUAL. MOUNT SWITCH ON DOOR AND PROVIDE NAMEPLATE ENGRAVED AS SHOWN.
  - CONTACTOR SHALL BE SQUARE D CLASS 8903 TYPE L ELECTRICALLY HELD LIGHTING CONTACTOR OR APPROVED EQUAL. CONTACTS ARE TO BE 30A CONTINUOUS RATED, QUANTITY AS INDICATED.
  - TIME CLOCK SHALL BE TORK #EWZ103, DPST, 7DAY ASTRONOMIC, 120V, ELECTRONIC TIME CLOCK WITH 7 DAY CARRYOVER OR APPROVED EQUAL.
  - PHOTO CONTROL SHALL BE PARAGON CAT NO. CW201-00, 120V, 200W, SPST OR APPROVED EQUAL. MOUNT ON HIGHEST PRACTICAL POINT FACING NORTH.
  - LOCATE CONTROLLER ADJACENT TO PANELBOARD.
  - EVENING HOURS: LIGHTS SWITCH ON VIA PHOTOCELL AND OFF VIA TIMECLOCK.
  - MORNING HOURS: LIGHTS SWITCH ON VIA TIMECLOCK AND OFF VIA PHOTOCELL.
  - COORDINATE TIMECLOCK SETTINGS WITH OWNER.



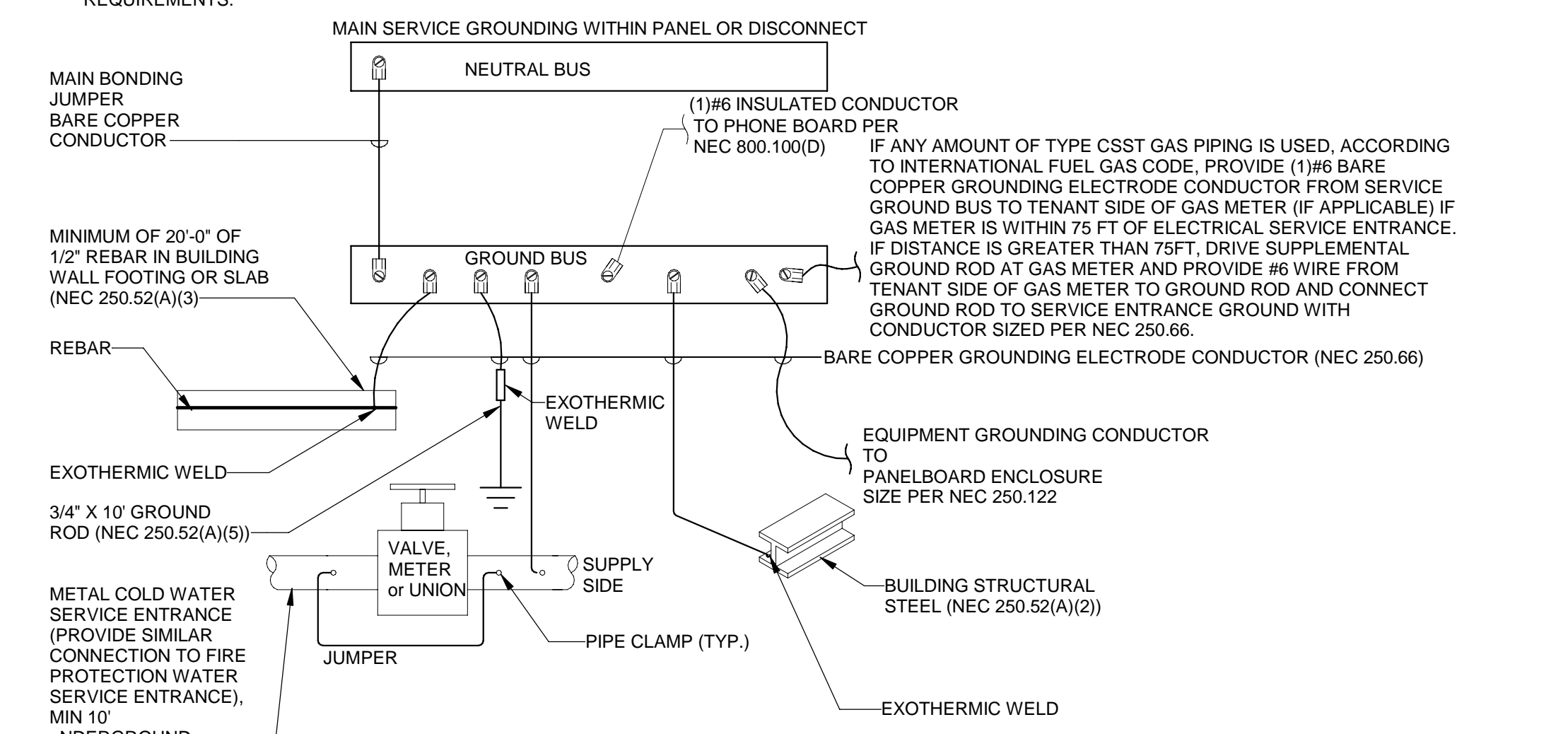
**5** INDOOR LIGHTING CONTROLLER  
 NOT TO SCALE  
 E-002

- INTERIOR LIGHTING CONTROLLER NOTES:**
- INTERIOR LIGHTING CONTROLLER IS TO BE NEMA 1 ENCLOSURE, SIZED AS REQUIRED. PROVIDE ENGRAVED NAMEPLATE ON DOOR.
  - H-O-A SWITCH IS TO BE SQUARE D#9001K5438, OIL TIGHT TYPE OR APPROVED EQUAL. MOUNT SWITCH ON DOOR AND PROVIDE NAMEPLATE ENGRAVED AS SHOWN.
  - CONTACTOR IS TO BE SQUARE D CLASS 8903 TYPE L ELECTRICALLY HELD LIGHTING CONTACTOR OR APPROVED EQUAL. CONTACTS ARE TO BE 30A CONTINUOUS RATED, QUANTITY AS SHOWN.
  - TIMECLOCK IS TO BE TORK EWZ103 ASTRONOMIC DIGITAL TIMER OR APPROVED EQUAL. COORDINATE WITH OWNER FOR MOUNTING LOCATION AND SETTINGS.
  - ALL EMERGENCY LIGHTING FED FROM INTERIOR LIGHTING CIRCUITS SHALL HAVE CONTINUOUS HOT LEAD THAT BYPASSES THE CONTACTOR.
  - COORDINATE TIME-CLOCK SETTINGS WITH OWNER.

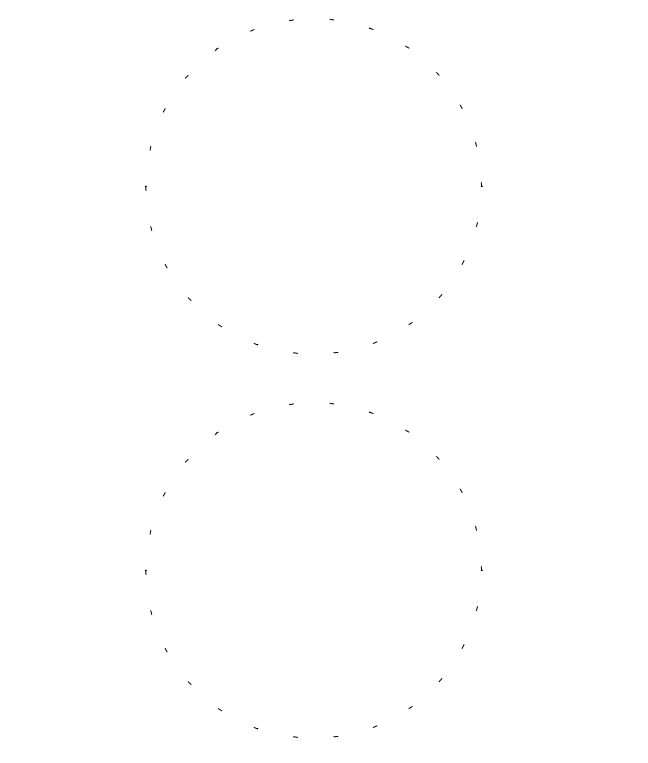
- GROUNDING NOTES:**
- ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
  - REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL GROUNDING REQUIREMENTS.



**6** WIRING METHOD FOR RECEPTACLE CIRCUIT WITH G.F.I.  
 NOT TO SCALE  
 E-002



**7** SERVICE GROUNDING DETAIL  
 NOT TO SCALE  
 E-002



A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
**FBC WINDERMERE**  
**LAKESIDE CAMPUS**  
8464 WINTER GARDEN VINELAND ROAD  
ORLANDO, FL 32836

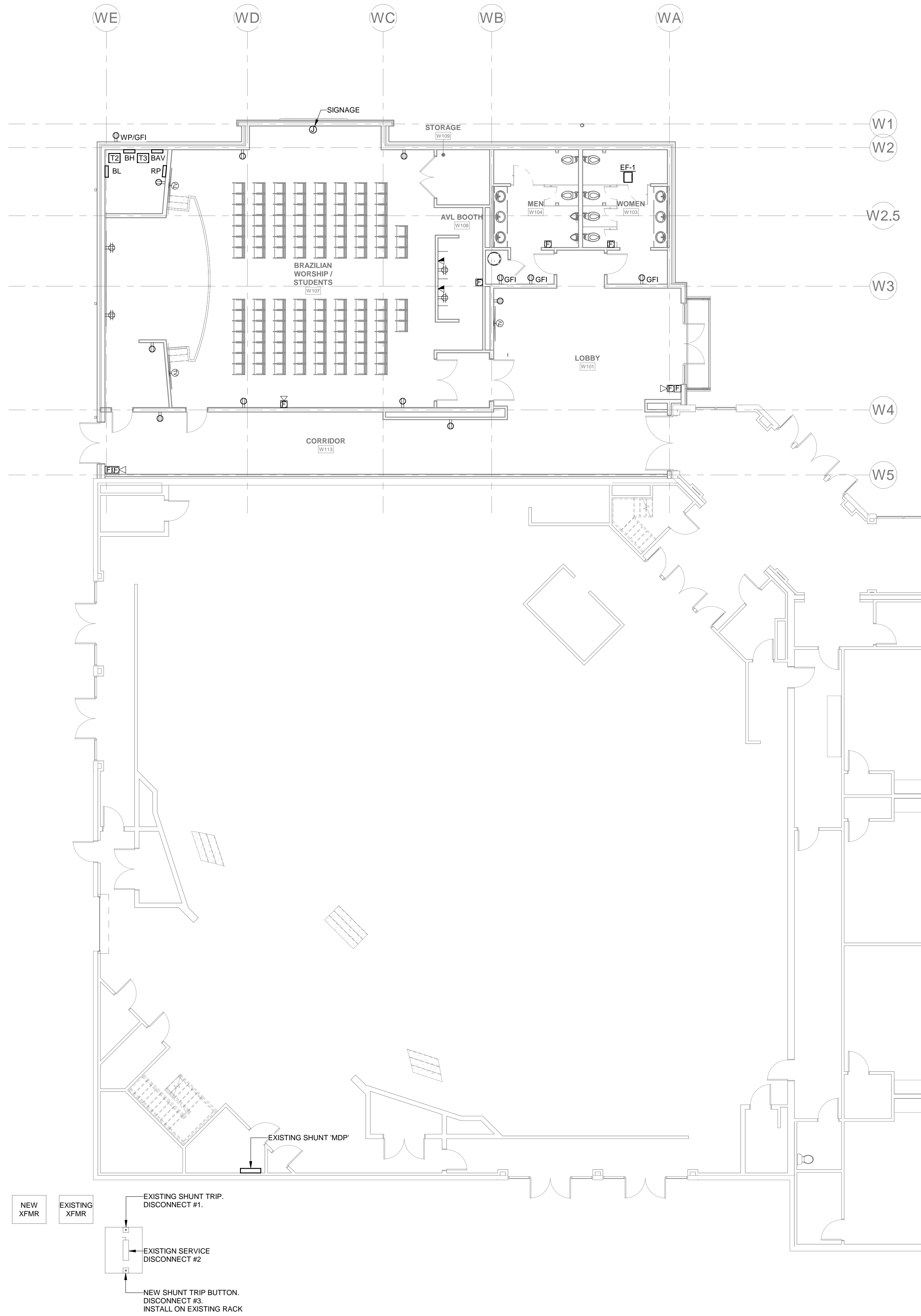
#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

PROJECT NUMBER: 190106  
PROJECT DATE: 10/24/2019  
PROJECT ENGINEER: DAI  
PROJECT TEAM: MJW

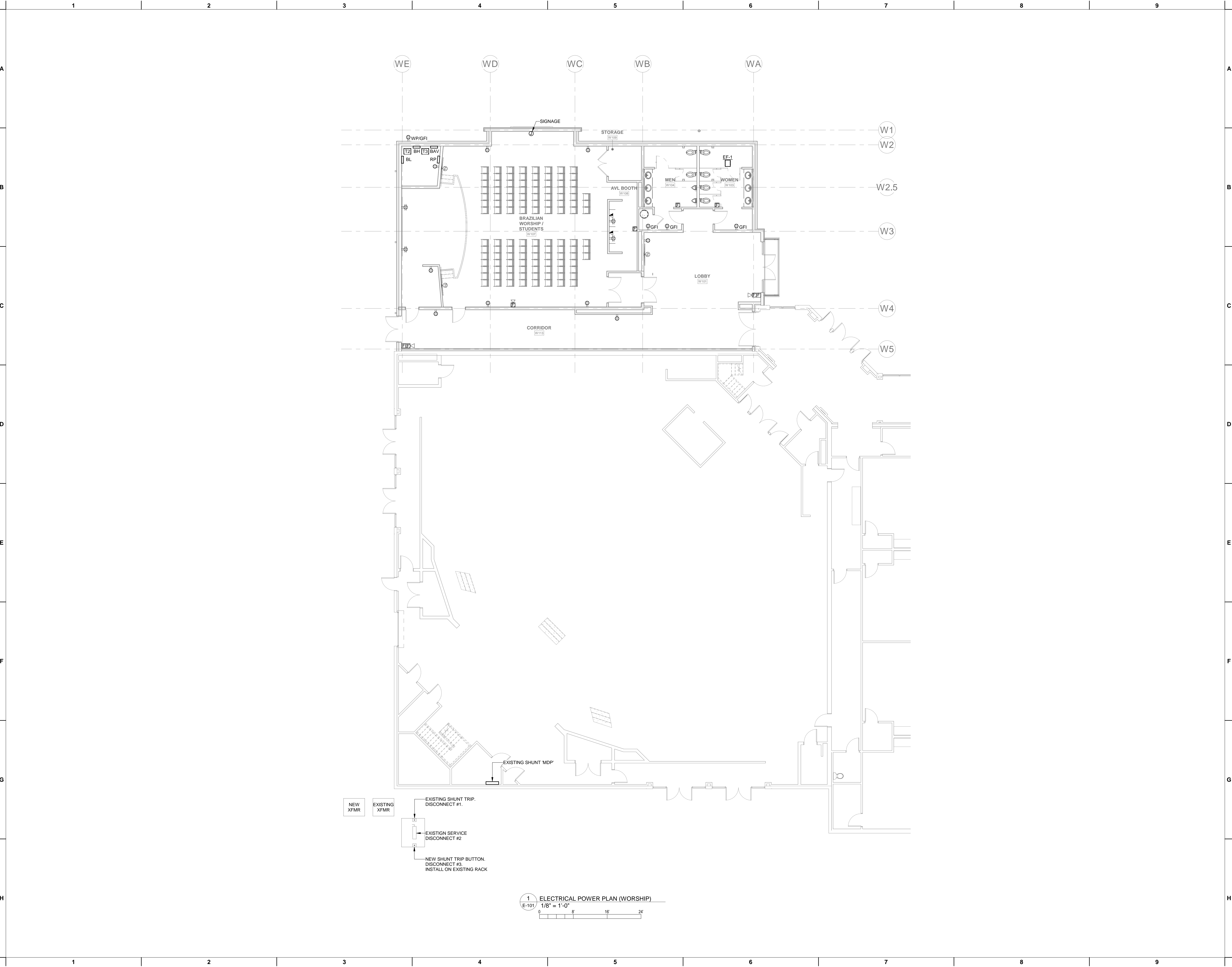
**ELECTRICAL POWER PLAN (WORSHIP)**

**E-101**

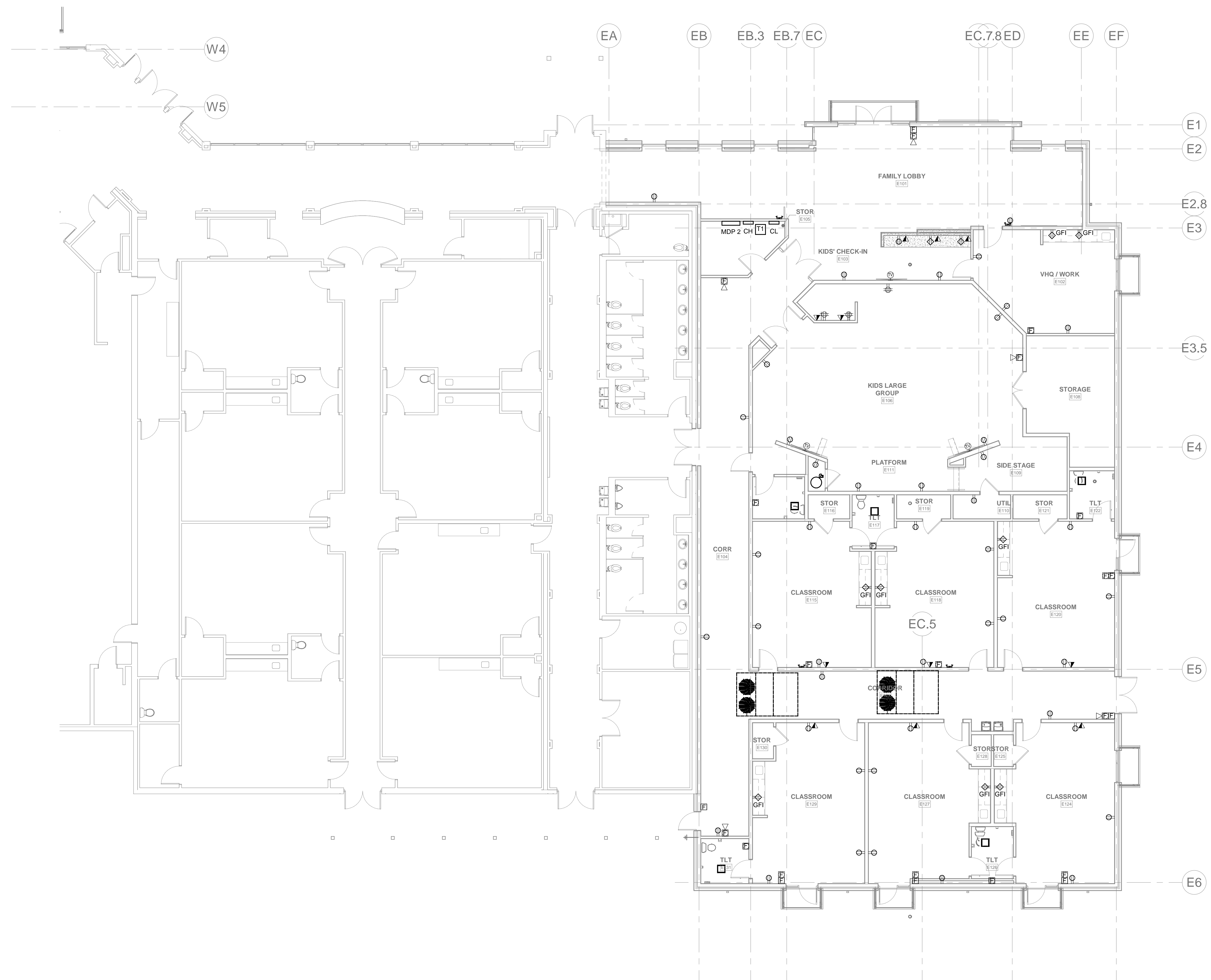


- NEW XFMR
- EXISTING XFMR
- EXISTING SHUNT TRIP, DISCONNECT #1.
- EXISTING SERVICE DISCONNECT #2
- NEW SHUNT TRIP BUTTON, DISCONNECT #3. INSTALL ON EXISTING RACK

1 ELECTRICAL POWER PLAN (WORSHIP)  
E-101 / 1/8" = 1'-0"  
0 8 16 24



A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
**FBC WINDERMERE  
 LAKESIDE CAMPUS**  
 8464 WINTER GARDEN VINELAND ROAD  
 ORLANDO, FL 32836



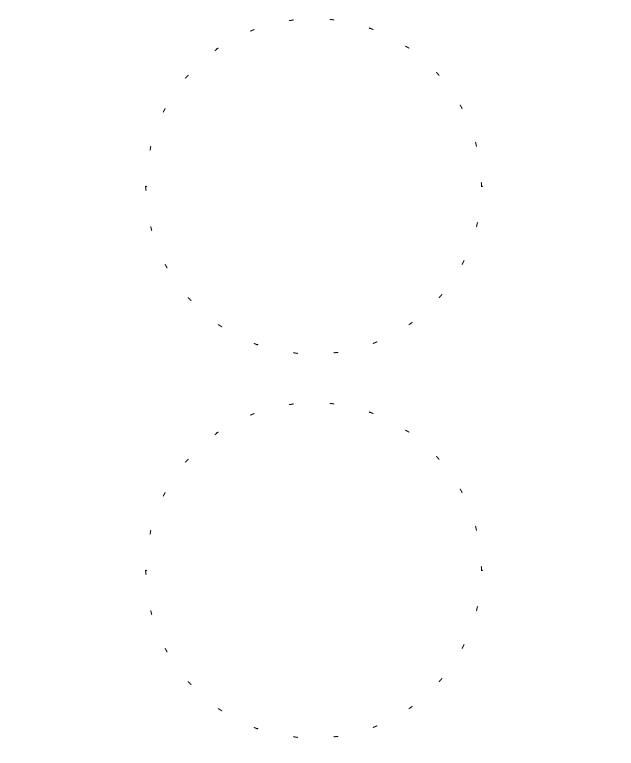
1 ELECTRICAL POWER PLAN (EDUCATION)  
 E-102 1/8" = 1'-0"  
 0 8 16 24

#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

PROJECT NUMBER: 190106  
 PROJECT DATE: 10/24/2019  
 PROJECT ENGINEER: DAI  
 PROJECT TEAM: MJW

**ELECTRICAL  
 POWER PLAN  
 (EDUCATION)**



**A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
 FBC WINDERMERE  
 LAKESIDE CAMPUS**  
 8464 WINTER GARDEN VINELAND ROAD  
 ORLANDO, FL 32836

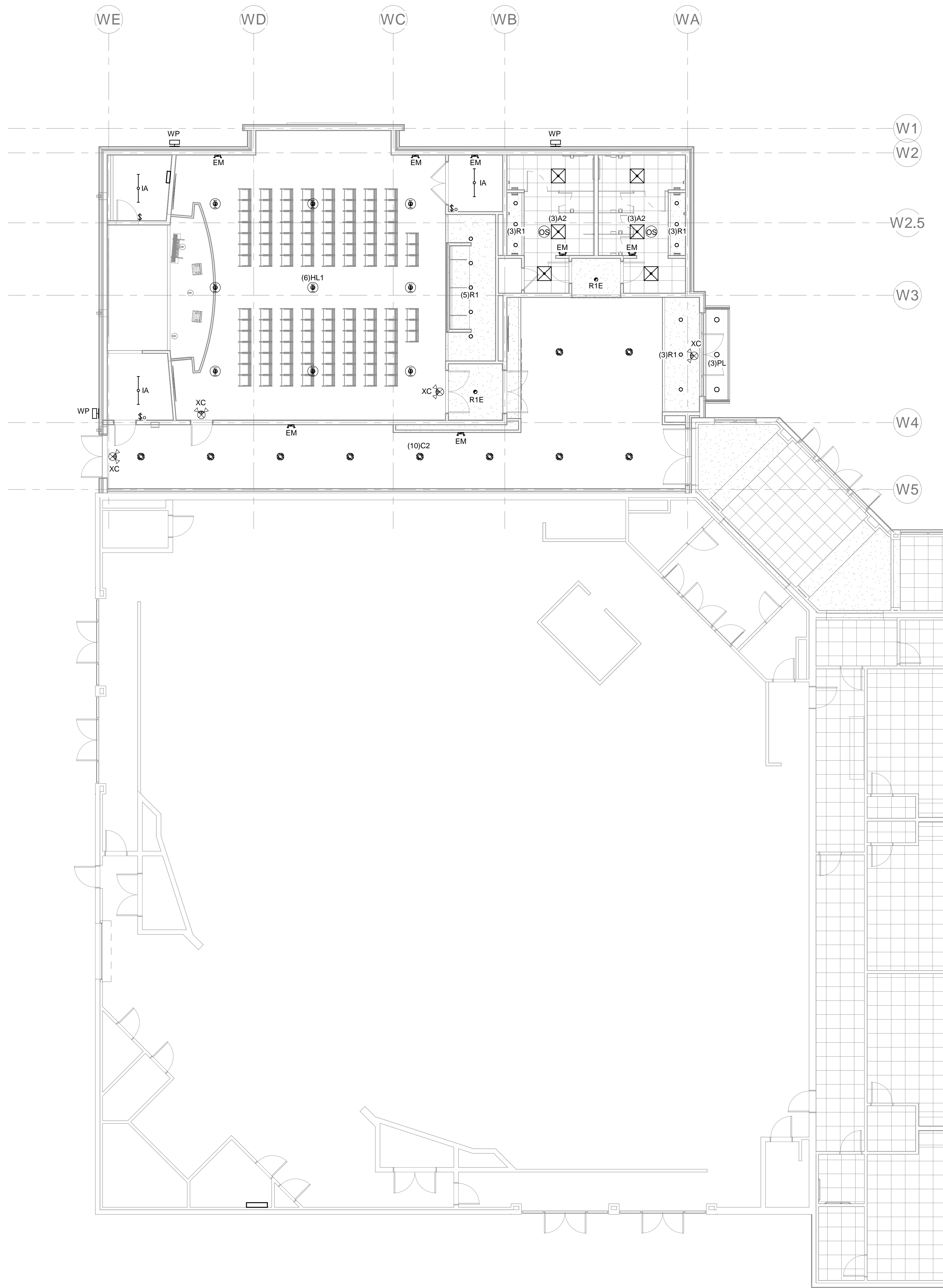
#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

PROJECT NUMBER: 190106  
 PROJECT DATE: 10/24/2019  
 PROJECT ENGINEER: DAI  
 PROJECT TEAM: MJW

**ELECTRICAL  
 LIGHTING PLAN  
 (WORSHIP)**

**E-121**



**1** ELECTRICAL LIGHTING PLAN (WORSHIP)  
 E-121  
 1/8" = 1'-0"  
 0 8 16 24



A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
**FBC WINDERMERE**  
**LAKESIDE CAMPUS**  
8464 WINTER GARDEN VINELAND ROAD  
ORLANDO, FL 32836

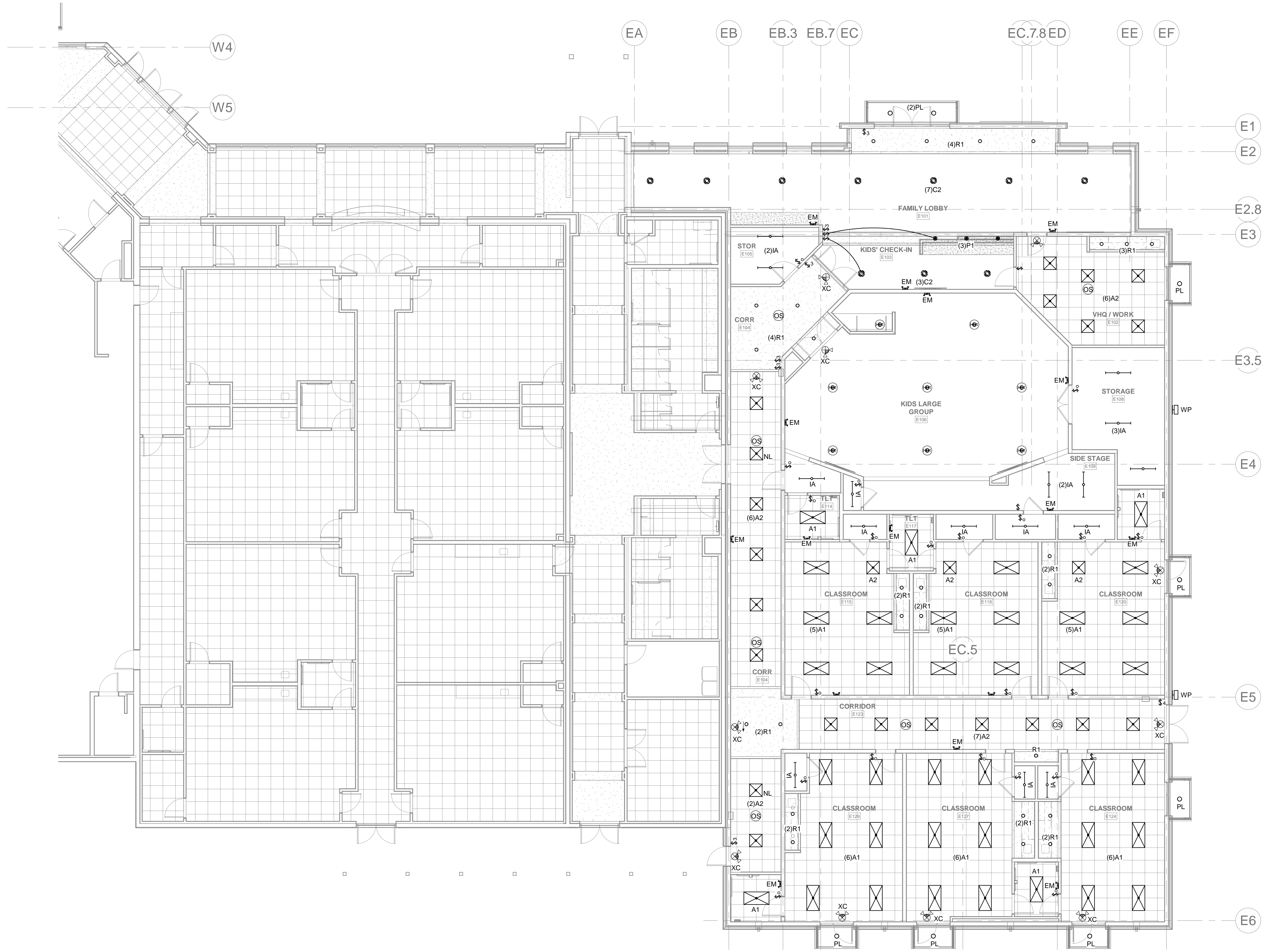
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SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

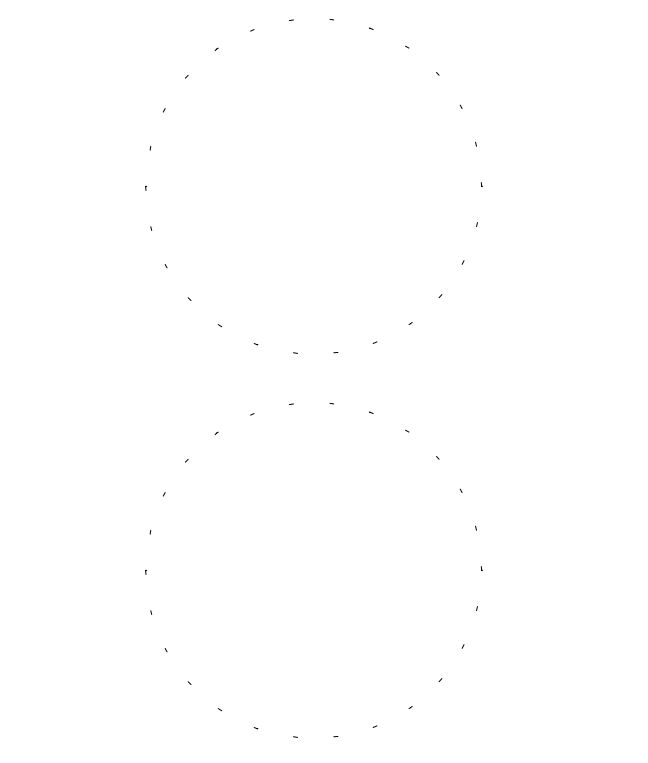
PROJECT NUMBER: 190106  
PROJECT DATE: 10/24/2019  
PROJECT ENGINEER: DAI  
PROJECT TEAM: MJW

**ELECTRICAL LIGHTING PLAN (EDUCATION)**

**E-122**



1 ELECTRICAL LIGHTING PLAN (EDUCATION)  
E-122  
1/8" = 1'-0"  
0 8 16 24'



A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
**FBC WINDERMERE**  
**LAKESIDE CAMPUS**  
8464 WINTER GARDEN VINELAND ROAD  
ORLANDO, FL 32836

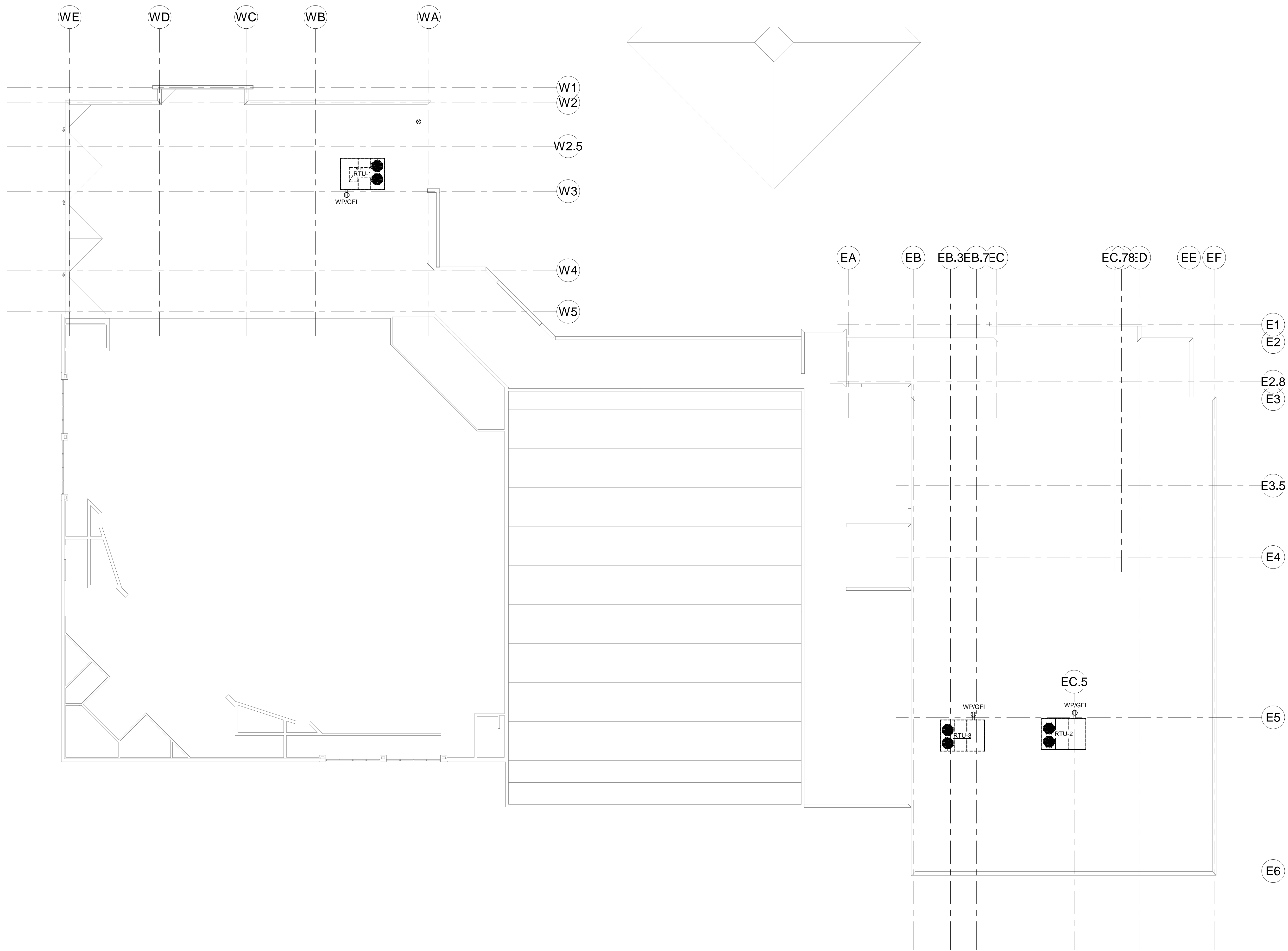
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SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

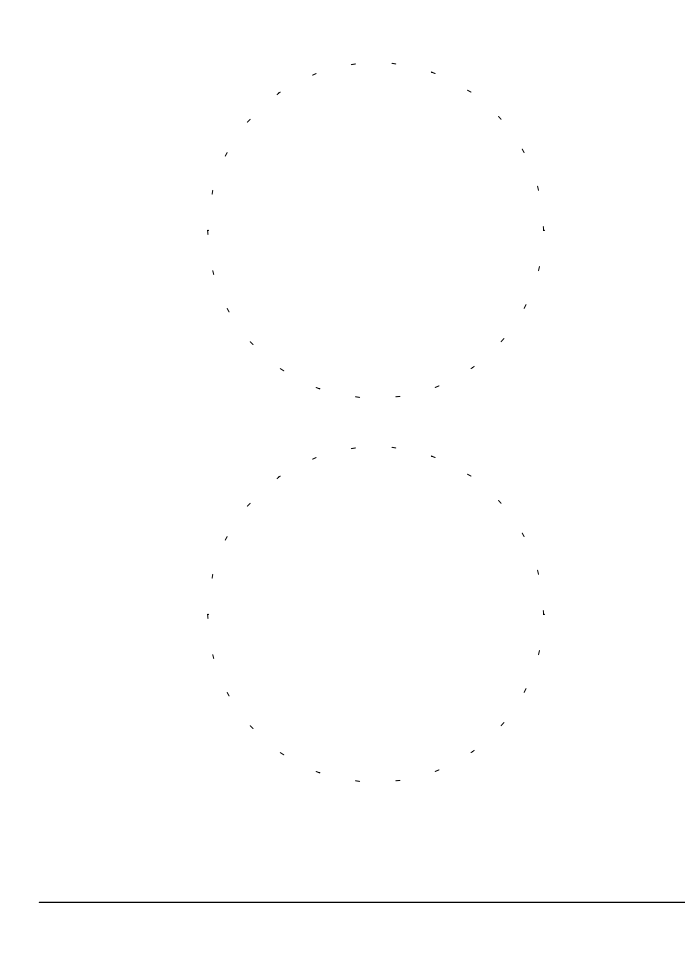
PROJECT NUMBER: 190106  
PROJECT DATE: 10/24/2019  
PROJECT ENGINEER: TPW  
PROJECT TEAM: MJW

**ELECTRICAL ROOF PLAN**

**E-151**



1 ELECTRICAL ROOF PLAN  
E-151  
3/32" = 1'-0"  
0 8 16 24'



#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

PROJECT NUMBER: 190106  
PROJECT DATE: 10/24/2019  
PROJECT ENGINEER: DAI  
PROJECT TEAM: MJW

**ELECTRICAL PANELS AND RISER DIAGRAM**

**Panel: MDP 2**

Voltage: 480/277 Wye Phases: 3 Wires: 4 Enclosure: Type 1  
A.I.C. Rating: Mounting: Surface Feeder Rating: 1000 A Panel Rating: 1000 A Type: MCB

BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR
400 A	3	PANEL 'BH'	1	0	0 VA	0 VA	2	PANEL 'CH'		3 200 A
			3				4			
			5				6			
			7				8			
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
				0 VA	0 VA	0 VA				

**Connected Load** Lighting HVAC Motors Receptacle Refrig Kitchen Misc  
**Demand Factor** NEC  
**Demand Load** Total Conn. Load: 0 VA  
 Total Est. Demand: 0 VA  
 Total Conn. Current: 0 A  
 Total Est. Demand Current: 0 A

**Panel: BL**

Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: Type 1  
A.I.C. Rating: Mounting: Surface Feeder Rating: 100 A Panel Rating: 100 A Type: MCB

BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR
			1				2			
			3				4			
			5				6			
			7				8			
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
				0 VA	0 VA	0 VA				

**Connected Load** Lighting HVAC Motors Receptacle Refrig Kitchen Misc  
**Demand Factor** NEC  
**Demand Load** Total Conn. Load: 0 VA  
 Total Est. Demand: 0 VA  
 Total Conn. Current: 0 A  
 Total Est. Demand Current: 0 A

**Panel: BAV**

Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: Type 1  
A.I.C. Rating: Mounting: Surface Feeder Rating: 100 A Panel Rating: 100 A Type: MCB

BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR
			1				2			
			3				4			
			5				6			
			7				8			
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
				0 VA	0 VA	0 VA				

**Connected Load** Lighting HVAC Motors Receptacle Refrig Kitchen Misc  
**Demand Factor** NEC  
**Demand Load** Total Conn. Load: 0 VA  
 Total Est. Demand: 0 VA  
 Total Conn. Current: 0 A  
 Total Est. Demand Current: 0 A

**Panel: BH**

Voltage: 480/277 Wye Phases: 3 Wires: 4 Enclosure: Type 1  
A.I.C. Rating: Mounting: Surface Feeder Rating: 400 A Panel Rating: 400 A Type: MCB

BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR
45 A	3	PANEL 'BL' via XFMR 'T2'	1	0	0 VA	0 VA	2			
			3				4			
			5				6			
			7				8			
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
				0 VA	0 VA	0 VA				

**Connected Load** Lighting HVAC Motors Receptacle Refrig Kitchen Misc  
**Demand Factor** NEC  
**Demand Load** Total Conn. Load: 0 VA  
 Total Est. Demand: 0 VA  
 Total Conn. Current: 0 A  
 Total Est. Demand Current: 0 A

**Panel: CL**

Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: Type 1  
A.I.C. Rating: Mounting: Surface Feeder Rating: 225 A Panel Rating: 150 A Type: MCB

BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR
			1				2			
			3				4			
			5				6			
			7				8			
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
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			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
				0 VA	0 VA	0 VA				

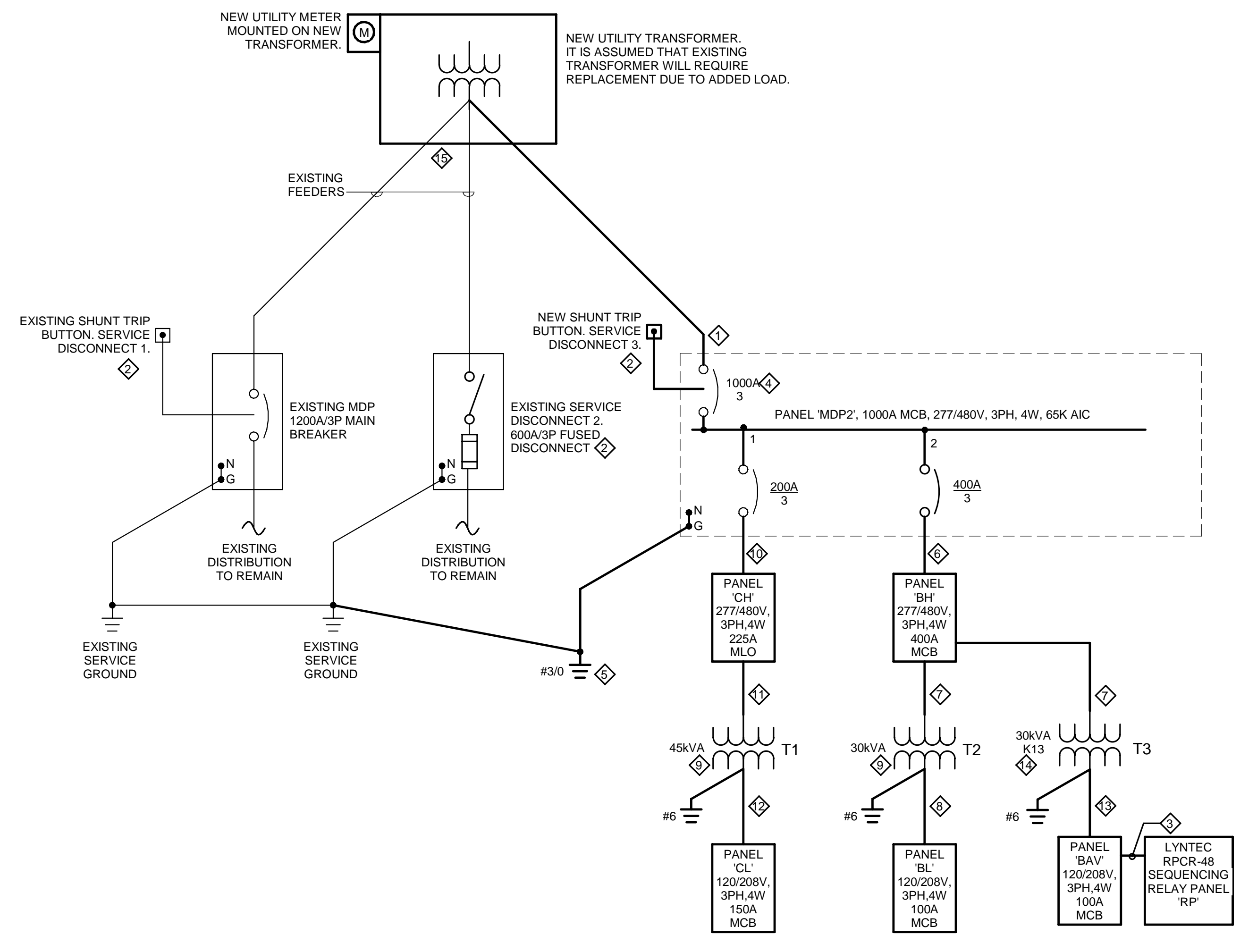
**Connected Load** Lighting HVAC Motors Receptacle Refrig Kitchen Misc  
**Demand Factor** NEC  
**Demand Load** Total Conn. Load: 0 VA  
 Total Est. Demand: 0 VA  
 Total Conn. Current: 0 A  
 Total Est. Demand Current: 0 A

**Panel: CH**

Voltage: 480/277 Wye Phases: 3 Wires: 4 Enclosure: Type 1  
A.I.C. Rating: Mounting: Surface Feeder Rating: 200 A Panel Rating: 200 A Type: MLO

BRKR	Notes	Circuit Description	CKT	A (VA)	B (VA)	C (VA)	CKT	Circuit Description	Notes	BRKR
70 A	3	PANEL 'CL' via XFMR 'T1'	1	0	0 VA	0 VA	2			
			3				4			
			5				6			
			7				8			
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
				0 VA	0 VA	0 VA				

**Connected Load** Lighting HVAC Motors Receptacle Refrig Kitchen Misc  
**Demand Factor** NEC  
**Demand Load** Total Conn. Load: 0 VA  
 Total Est. Demand: 0 VA  
 Total Conn. Current: 0 A  
 Total Est. Demand Current: 0 A



**RISER DIAGRAM KEYED NOTES**

- FEEDER TO UTILITY COMPANY PAD MOUNTED TRANSFORMER. PROVIDE 3 SETS: 4#400KCM, 3"C.
- NEW SHUNT TRIP BUTTON SHALL BE LABELED AS "DISCONNECT 3 OF 3". EXISTING DISCONNECTS SHALL BE RE-LABELED AS "1 OF 3" AND "2 OF 3" AS REQUIRED.
- CONNECT CIRCUITS INDICATED BY AVL PER MANUFACTURER INSTRUCTIONS.
- CIRCUIT BREAKER SHALL BE ELECTRONIC TYPE WITH LONG, SHORT, AND INSTANTANEOUS TRIP SETTINGS GROUND FAULT PROTECTION, AND SHUNT TRIP. PROVIDE ENERGY REDUCING MAINTENANCE SWITCH PER NEC 240.87.
- PROVIDE NEW 5/8" x 10' GROUND ROD AND CONNECT TO ALL OTHER AVAILABLE GROUNDING ELECTRODES PER NEC ARTICLE 250. IN ADDITION, CONNECT TO EXISTING SERVICE GROUNDS WITH #3/0 COPPER
- PROVIDE 4#600KCM, 1#3G, 4"C
- PROVIDE 3#6, 1#10G, 1"C
- PROVIDE 4#1, 1#6G, 2"C
- PROVIDE 1#6 GROUNDING ELECTRODE CONDUCTOR.
- PROVIDE 4#3/0, 1#6G, 2-1/2"C
- PROVIDE 3#4, 1#6G, 1-1/4"C
- PROVIDE 4#1/0, 1#6G, 2"C
- PROVIDE 3#1, 2#1(N), 1#6(G), 1#6(G), 2"C
- PROVIDE 1#6 GROUNDING CONDUCTOR ELECTRODE. TRANSFORMER SHALL BE K-13 RATED ISOLATION TYPE WITH ELECTROSTATIC SHIELD.
- RE-CONNECT EXISTING FEEDERS TO NEW TRANSFORMER. FIELD VERIFY EXISTING CONDITIONS IF EXISTING CONDUCTORS ARE TOO SHORT TO REACH NEW XFMR LUGS THEN NEW CONDUCTORS SHALL BE RE-INSTALLED BACK TO DISCONNECT/PANEL.

1 SINGLE LINE DIAGRAM  
E-161 NOT TO SCALE