



SUITE 203 FLORENCE, SC 29503 GREENVILLE, SC 29601

DESIGN DEVELOPMENT SCHEMATIC DESIGN 08/09/2019 DESCRIPTION DATE SCHEDULE OF REVISIONS

**DESIGN DEVELOPMENT** 

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

**COVER SHEET** 

G-001

## GENERAL COVER SHEET G-002

(UNDER SEPARATE CONTRACT WITH OWNER)

BRITT, PETERS & ASSOCIATES, INC. 101 FALLS PARK DRIVE, SUITE 601 PROJECT STANDARDS, LEGENDS AND GREENVILLE, SC 29601 CODE REVIEW FRANK REPPI LIFE SAFETY PLAN - FIRST FLOOR 864-271-8869

FREPPI@BRITTPETERS.COM

GENERAL NOTES

STRUCTURAL

FOUNDATION PLAN - WORSHIP BUILDING ROOF FRAMING PLAN - WORSHIP BUILDING FOUNDATION PLAN - CHILDREN'S BUILDING ROOF FRAMING PLAN - CHILDREN'S BUILDING S-300 SECTIONS AND ELEVATIONS

CONCRETE DETAILS - REINFORCING CONCRETE DETAILS - SLAB ON GRADE STRUCTURAL STEEL DETAILS S-510 METAL DECKING DETAILS

ARCHITECTURAL **EQUIP STUDIO** 

245 NORTH MAIN STREET, SUITE 200 GREENVILLE, SC 29601 CONTACT: STEPHEN TROUTMAN 864-520-2086 STEPHENTROUTMAN@EQUIPSTUDIO.COM

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) FIRST FLOOR RCP (EDUCATION) **ROOF PLAN** 

**EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS** INTERIOR ELEVATIONS INTERIOR ELEVATIONS

**BUILDING SECTIONS** RESTROOMS CASEWORK DETAILS ENLARGED PLANS & DETAILS

WALL TYPES, FLOOR & ROOF TYPES DOOR, HARDWARE AND GLAZING SCHEDULES & DETAILS FINISH SPECIFICATIONS

FIRST FLOOR FINISH PLAN (WORSHIP)

A-702 FIRST FLOOR FINISH PLAN (EDUCATION)

FIRE PROTECTION

FP-101 FIRE PROTECTION NOTES & FLOOR PLAN

DEVITA & ASSOCIATES, INC.

33 VILLA ROAD, SUITE 300

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GREENVILLE, SC 29615

TREY MORAN

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**PLUMBING** 

DEVITA & ASSOCIATES, INC.

33 VILLA ROAD, SUITE 300

TMORAN@DEVITAINC.COM

P-001 PLUMBING LEGEND AND NOTES

PLUMBING SANITARY WASTE & VENT PLAN

P-102 PLUMBING SANITARY WASTE & VENT PLAN

P-161 SANITARY WASTE & VENT RISER DIAGRAM

P-112 PLUMBING DOMESTIC WATER PLAN

P-162 DOMESTIC WATER RISER DIAGRAM

PLUMBING ROOF PLAN

PLUMBING DOMESTIC WATER PLAN

GREENVILLE, SC 29615

P-002 PLUMBING DETAILS

(WORSHIP)

(WORSHIP)

(EDUCATION)

(EDUCATION)

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DEVITA & ASSOCIATES, INC. 33 VILLA ROAD, SUITE 300 GREENVILLE, SC 29615 TREY MORAN 864-232-6642

M-002 MECHANICAL DETAILS M-101 MECHANICAL FLOOR PLAN (WORSHIP) M-102 MECHANICAL FLOOR PLAN (EDUCATION) M-151 MECHANICAL ROOF PLAN

MECHANICAL

TMORAN@DEVITAINC.COM

M-001 MECHANICAL SCHEDULES, LEGEND, AND

LOCATION MAP

PROJECT SITE

Lakeside At Lakes
 Of Windermere

SITE ENTRY

PROJECT SITE

**ELECTRICAL** 

DEVITA & ASSOCIATES, INC.

TWALKER@DEVITAINC.COM

E-002 ELECTRICAL DETAILS

E-151 ELECTRICAL ROOF PLAN

E-001 ELECTRICAL LEGEND AND NOTES

E-101 ELECTRICAL POWER PLAN (WORSHIP)

E-102 ELECTRICAL POWER PLAN (EDUCATION)

E-122 ELECTRICAL LIGHTING PLAN (EDUCATION)

E-161 ELECTRICAL PANELS AND RISER DIAGRAM

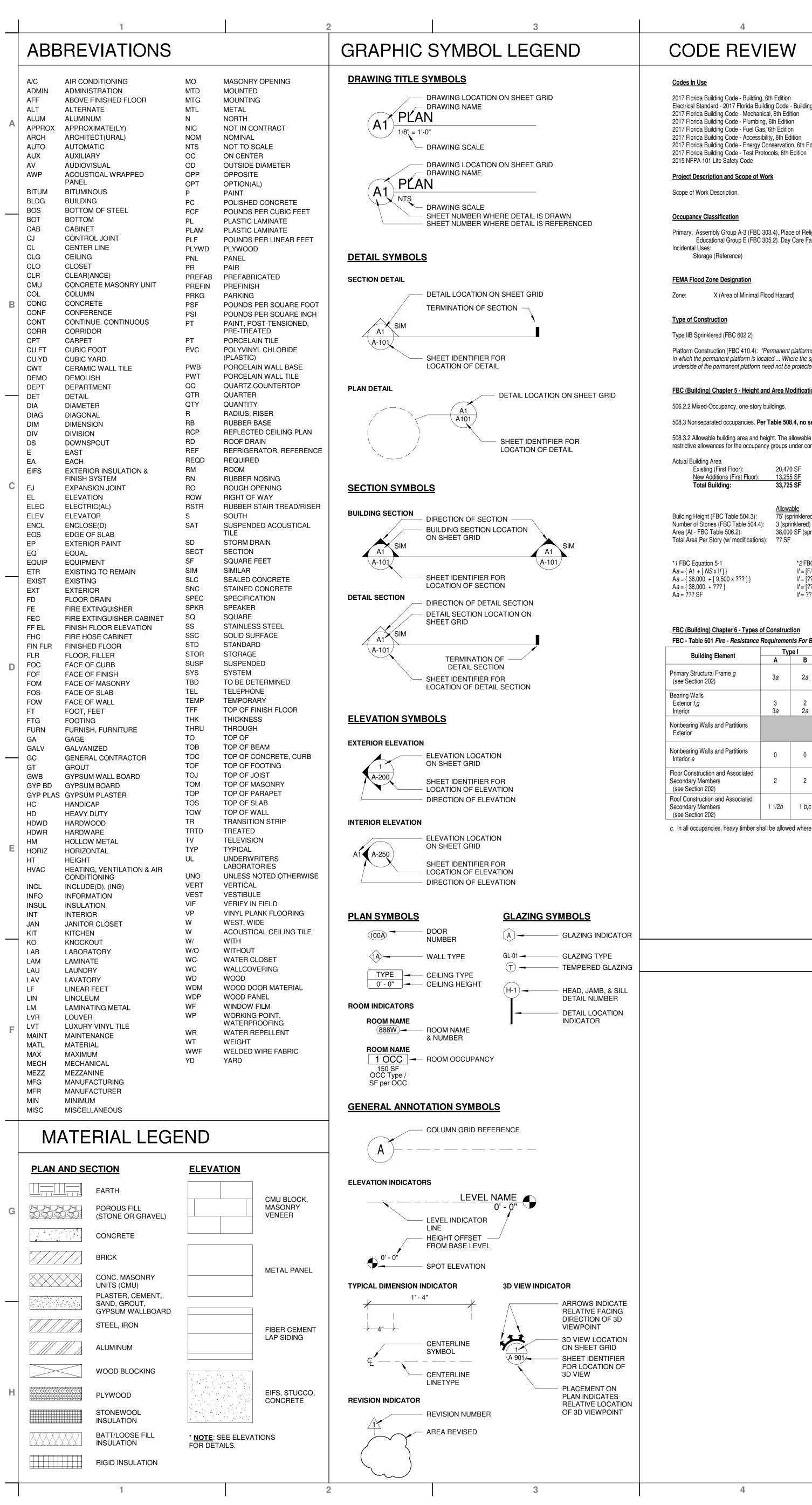
E-121 ELECTRICAL LIGHTING PLAN (WORSHIP)

33 VILLA ROAD, SUITE 300

GREENVILLE, SC 29615

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**CODE REVIEW** 

Codes In Use

2017 Florida Building Code - Building, 6th Edition Electrical Standard - 2017 Florida Building Code - Building, 6th Edition - Chapter 27 2017 Florida Building Code - Mechanical, 6th Edition 2017 Florida Building Code - Plumbing, 6th Edition 2017 Florida Building Code - Fuel Gas, 6th Edition 2017 Florida Building Code - Accessibility, 6th Edition 2017 Florida Building Code - Energy Conservation, 6th Edition

Project Description and Scope of Work

Scope of Work Description.

Occupancy Classification Primary: Assembly Group A-3 (FBC 303.4). Place of Religious Worship Educational Group E (FBC 305.2). Day Care Facilities

FEMA Flood Zone Designation

Storage (Reference)

X (Area of Minimal Flood Hazard)

Type of Construction Type IIB Sprinklered (FBC 602.2)

Platform Construction (FBC 410.4): "Permanent platforms shall be constructed of materials as required for the type of construction of the building in which the permanent platform is located ... Where the space beneath the permanent platform is used only for equipment, wiring or plumbing, the underside of the permanent platform need not be protected."

FBC (Building) Chapter 5 - Height and Area Modifications

506.2.2 Mixed-Occupancy, one-story buildings.

508.3 Nonseparated occupancies. Per Table 508.4, no separation requirement between Groups A and E.

508.3.2 Allowable building area and height. The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.

Actual Building Area Existing (First Floor): 13,255 SF 33,725 SF New Additions (First Floor): Total Building:

Building Height (FBC Table 504.3): 75' (sprinklered) Number of Stories (FBC Table 504.4): 3 (sprinklered) Area (At - FBC Table 506.2): Total Area Per Story (w/ modifications): ?? SF

38,000 SF (sprinklered) 33,725 SF \*2 FBC Equation 5-5

If = [F/P - .25] W / 30

|f = [??]??

If = [?? / ?? - .25] ?? / 30

\*1 FBC Equation 5-1  $Aa = \{At + [NS \times If]\}$  $Aa = \{38,000 + [9,500 \times ???]\}$  $Aa = \{38,000 + ???\}$ 

\*3 FBC Equation 5-4  $W = (L1 \times w1 + L2 \times w2 + L3 \times w3...) / F$  $W = (?? \times 30) / ??$ 

FBC (Building) Chapter 6 - Types of Construction

Duilding Clament	Ty	pe I	Тур	oe II	Тур	e III	Type IV	Тур	e V
Building Element	Α	В	Ad	В	Ad	В	HT	Ad	В
Primary Structural Frame <i>g</i> (see Section 202)	3 <i>a</i>	2a	1	0	1	0	НТ	1	0
Bearing Walls Exterior <i>f,g</i> Interior	3 3 <i>a</i>	2 2a	1 1	0 0	2	2 0	2 1/HT	1 1	0
Nonbearing Walls and Partitions Exterior				S	See Table 60	2			
Nonbearing Walls and Partitions Interior e	0	0	0	0	0	0	See Section 602.4.6	0	0
Floor Construction and Associated Secondary Members (see Section 202)	2	2	1	0	1	0	НТ	1	0
Roof Construction and Associated Secondary Members (see Section 202)	1 1/2 <i>b</i>	1 <i>b,c</i>	1 <i>b,c</i>	0 <i>c</i>	1 <i>b,c</i>	0 <i>b,c</i>	НТ	1 <i>b,c</i>	0

c. In all occupancies, heavy timber shall be allowed where a 1-hour or less fire-resistance rating is required.

FBC (Building) Chapter 6 - Types of Construction (cont.)

FBC - Table 602 Fire - Resistance Requirements For Exterior Walls Based On Separation Distance a, e, h

Fire Separation Distance = X (feet)	Type of Construction	Group Hf	Group F-1, M, S-1 <i>g</i>	Group A, B, E, F-2, I, R, S-2g, Ub
X<5 <i>c</i>	All	3	2	1
X>5<10	I-A Others	3	2	1
X≥10<30	IA, IB IIB, VB Others	2 1 1	1 0 1	1 <i>d</i> 0 1 <i>d</i>
X≥30	All	0	0	0

a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601. e. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which h. Where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the required fire-resistance rating for the exterior walls is 0 hours.

FBC (Building) Chapter 7 - Fire and Smoke Protection Features

FBC - Table 705.8 Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening Protection (partial table) Fire Separation Distance (feet) **Degree Of Opening Protection** Unprotected, nonsprinklered (UP, NS) No Limit Unprotected, Sprinklered (UP,S) i 30 or greater Not Required

Not Required

Protected (P)

a. Values indicated are the percentage of the area of the exterior wall, per story. b. For the requirements for fire walls of buildings with differing heights, see Section 706.6.1. c. For openings in a fire wall for buildings on the same lot, see Section 706.8.

Table 706.4 Fire Wall Fire-resistance Rating: In Type II construction, Group A, walls shall be permitted to have a 2-hour fire resistance rating. 706.5 Horizontal Continuity: (Ex 3) Fire walls shall be permitted to terminate at the interior surface of noncombustible exterior sheathing where the building on each side of the fire wall is protected by an automatic sprinkler

system installed in accordance with Section 903.3.1.1 or 903.3.1.2. Vertical Continuity: (Ex 3) Walls shall be permitted to terminate at the underside of noncombustible roof sheathing, deck or slabs where both buildings are provided with not less than a Class B roof covering. Openings in the roof shall not be located within 4 feet of the fire wall.

f. For places of religious worship, wood used for ornamental purposes, trusses, paneling or chancel furnishing shall be permitted.

FBC - Table 716.5 Opening Fire Protection Assemblies, Ratings and Markings (partial table)

Type Of Assembly	Required Wall Assembly Rating	Minimum Fire Door And Fire Shutter	Door Vision Panel Size	Fire Rated Glazing Marking Door Vision Panel	Minimum Sid Transom Ass Rating (ho	sembly	Fire-Rated Glazing Marking Sidelite/Transom Panel		
	(hours)	Assembly Rating (hours)		e		Fire resistance	Fire protection	Fire resistance	
Fire walls and fire barriers having a required fire-	3	3 <i>a</i>	Not Permitted	Not Permitted	Not Permitted	3	Not Permitted	W-180	
	2	1 1/2	100 sq. in. <i>c</i>	<100 sq.in. = D-H-90>100 sq.in.= D-N-W-90	Not Permitted	2	Not Permitted	W-120	
resistance rating greater than 1 hour	1 1/2	1 1/2	100 sq. in. <i>c</i>	<100 sq.in. = D-H-90>100 sq.in.= D-N-W-90	Not Permitted	1 1/2	Not Permitted	W-90	
Other fire barriers	1	3/4	Maximum size tested	D-H-NT-45	3/4		D-H-N	T-45	

Finish Classification (LSC Chapter 12)

LSC 12.3.3 Interior Wall and Ceiling Finish Requirements by Occupancy (Ch. 12 - New Assembly)

Corridors and Lobbies: Enclosed Stairways: General Assembly Areas with < 300 occupants: Class C All Other Enclosed Spaces:

Fire Protection Systems (LSC Chapter 12)

Project is located in: NFPA 13 Automatic Sprinkler System: Provided throughout Building

LSC 12.3.4 Detection, Alarm, and Communications Systems. Assembly Occupancies with > 300 occupants shall be equipped with a fire alarm system installed, tested, and maintained in accordance with the applicable requirements of NFPA 70, National Electrical Code, NFPA 72, and National Fire Alarm Code.

LSC 12.3.4.2.1 Exception 2, Initiation. Manual means of alarm initiation shall not be required where the fire alarm system is initiated by means of an approved automatic sprinkler system in accordance with LSC 9.6.2.1 (3). LSC 12.3.5.1 Extinguishing Requirements. Assembly Occupancies with > 300 occupants shall be protected by an approved, supervised automatic

sprinkler system in accordance with Section 9.7. **NOTE**: Existing Sprinkler System to be maintained (Refer to Fire Protection drawings).

Means of Egress (LSC and FBC references noted below)

Occupancy Calculation: Assembly (A-3) Total Occupants (See Life Safety Plan):

Minimum Required Corridor Width:

Headroom Requirements:

Egress Capacity Factors:

1,908 Occupants

Common Path of Egress Travel: 20' for any number of occupants (LSC 12.2.5.1) 75' for not more than 50 occupants (LSC 12.2.5.1 Maximum Travel Distance: 250' w/ sprinklers (LSC 12.2.6 Exception 1) No Requirements (LSC 12.3.6 Exception 2), 0 Hr (FBC - Table 1020.1) Exit Access Corridor Rating:

**36"** (LSC 7.3.4.1)

**44"** for corridors serving > 50 occupants (LSC 12.2.3.8) Maximum Dead End Corridor Length: **20'** (LSC 12.2.5.1.3) Minimum Number of Exits:

Not less than 3 for occupant load > 500 and < 1,000 (LSC 7.4.1.2 (1) **Not less than 4** for occupant load > 1,000 (LSC 7.4.1.2 (2)) Not less than 7'-6" clear height (LSC 7.1.5.1) Not less than 6'-8" clear height to ceiling projections (LSC 7.1.5.1 Stairways = 0.3" per person (LSC Table 7.3.3.1)

Level Components and Ramps = 0.2" per person (LSC Table 7.3.3.1

FBC (Accessbility)

TBD Sixty percent of all public entrances shall be accessible.

Exception 2: Loading and Service Entrances that are not the only entrance to a tenant space. TBD Sinks: ≥ 5% but not less than one provided in accessible spaces shall comply with ICC A117.1.

TBD Drinking Fountains: Required. TBD Directional Signage: Required at inaccessible building entrances and at each separate-sex toilet indicating the nearest

FBC (Building) Chapter 15 - Roof Assemblies And Rooftop Structures

FBC (Building) Chapter 17 - Special Inspections - Required

(See Structural Specification)

Roof Covering Classification:

FBC (Plumbing) Chapter 4 - Fixtures, Faucets and Fixture Fittings

Table 403.1 Minimum Number of Plumbing Fixtures **Fixture** 1,908 = 954M / 954WFemale Unisex Male Water Closet 1 per 150 = 6.361 per 75 = 12.72 9 | 14 | 5 7 | 12 | 5 Lavatories 1 per 200 = 4.771 per 200 = 4.77Assembly (A-3) Showers 0 0 0 Drinking 1 per 1,000 = 2 required 4 Existing + 2 New Fountains

1 service sink required

1 provided

Class C or Better (FBC Table 1505.1)

\* Occupant load based on Life Safety Plans (See sheet G-101). \*\* 403.1.2 Family or assisted-use toilet and bath fixtures. Fixtures located within...assisted-use toilet...are permitted to be included in the

Service Sink

number of required fixtures for either the male or female occupants in assembly...occupancies. \*\*\* 419.2 Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly...occupancies.

FBC (Energy Conservation) Table C402.1.3 BUILDING ENVELOPE REQUIREMENTS - OPAQUE ASSEMBLIES

Partial Table - Climate Zone 2A

	Descr	ription	Min. Req.	Provided
Roofs	Insulation Entirely	Above Deck	R-25ci	R-25ci
Walls, Above Grade	Metal Framed		R-13 + R-5ci	R-13 + R-5ci
Walls, Below Grade	Below Grade Wal	I	NR	0
Floors	Joist / Framing (st	teel / wood)	R-30	N/A
	Unheated Slab		NR	0
Slab-on-Grade Floors	Once we Decide	Swinging	N/A	N/A
	Opaque Doors	Nonswinging	R-4.75	N/A

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

245 NORTH MAIN STREET 140 WEST EVANS STREET SUITE 200 SUITE 203 GREENVILLE, SC 29601 FLORENCE, SC 29503

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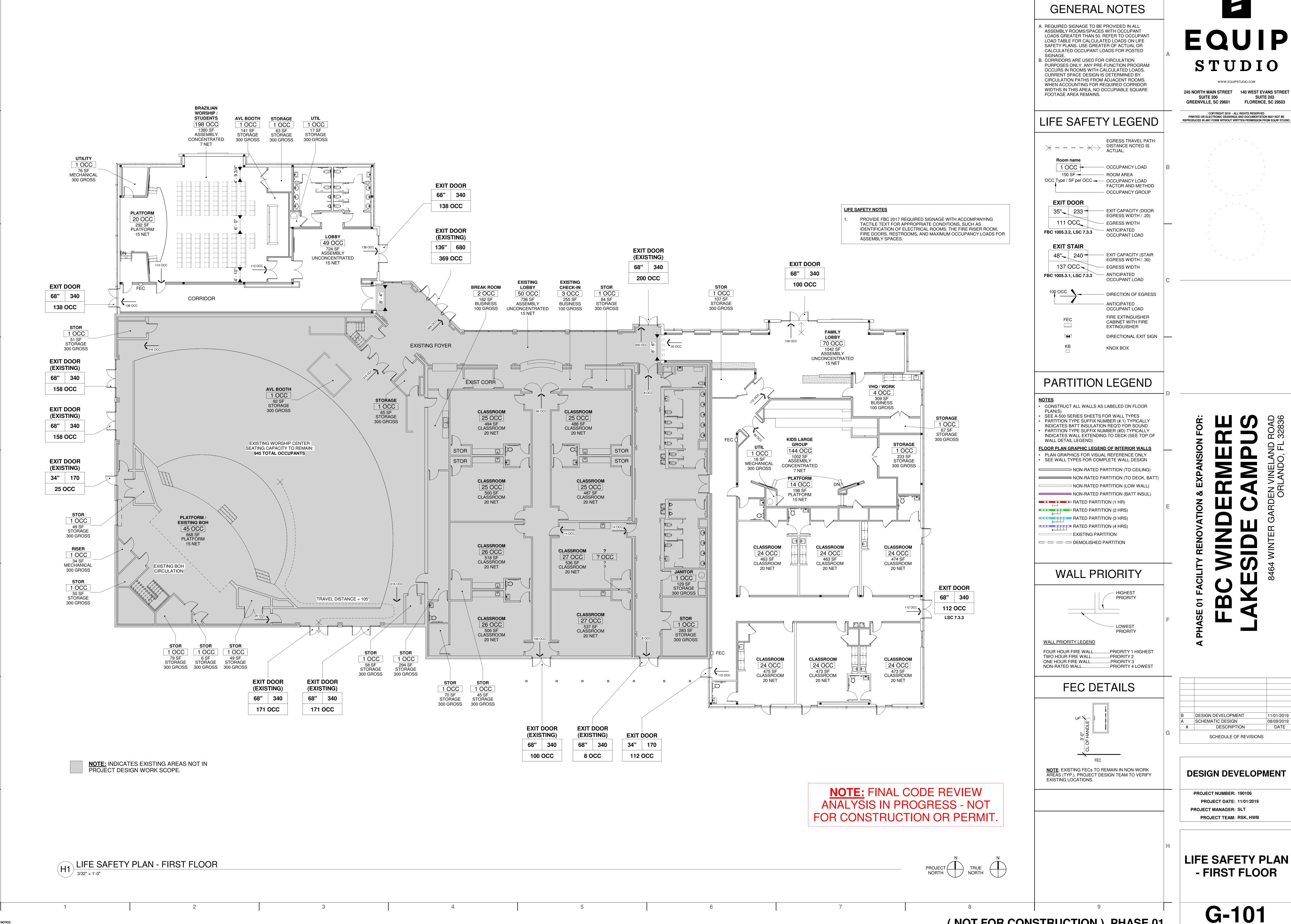
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**DESIGN DEVELOPMENT** 

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

**PROJECT** STANDARDS, **LEGENDS AND CODE REVIEW** 

G-002



EQUIP

GREENVILLE, SC 29601 FLORENCE, SC 29503

	WIRING DEVICE SYMBOL LEGEND
SYMBOL	DESCRIPTION
A-1	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
——— <u> </u>	CONDUIT STUB
<b>─</b>	CONDUIT TURNED DOWN
<del></del>	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
E101	ELECTRICAL CONNECTION TO EQUIPMENT ITEM 'E101' (LETTER DESIGNATION AS APPLICABLE) - SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
φ	DUPLEX RECEPTACLE AT 18" AFF, UNO. NEMA 5-20R.
<del> </del>	QUADRUPLEX RECEPTACLE AT 18" AFF, UNO. NEMA 5-20R.
$\Diamond$	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER, UNO. NEMA 5-20R.
<b>\Phi</b>	QUADRUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER, UNO. NEMA 5-20R.
Ф	DUPLEX RECEPTACLE - CEILING MOUNTED. NEMA 5-20R.
Φ	DUPLEX RECEPTACLE - FLOOR MOUNTED. NEMA 5-20R.
φ	SINGLE RECEPTACLE AT 18" AFF, UNO. NEMA 5-20R.
	FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS:  GFI - 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
J	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
J	JUNCTION BOX - FLOOR MOUNTED. SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POLE
$\P \mathbf{\nabla}$	COMBINATION IN FLOOR POWER / DATA / A/V DEVICE.
•	PUSHBUTTON
$\bigcirc$	MOTOR. SEE DRAWINGS FOR DESCRIPTION
30A/3P/20/1	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.
$\boxtimes$	COMBNATION MOTOR STARTER
$\boxtimes$	MOTOR STARTER
Вр	DOOR BELL

	FIRE ALARM SYMBOL LEGEND
SYMBOL	DESCRIPTION
FAAP	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO
FACP	FIRE ALARM CONTROL PANEL - WALL MOUNTED AT 72" AFF TO TOP, UNO
FATC	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO
E	FIRE ALARM PULL STATION AT 44" AFF. UNO
<b>E</b> C	FIRE ALARM VISUAL DEVICE. ROUGH-IN SUCH THAT BOTTOM OF LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
E <sub>C</sub>	FIRE ALARM AUDIO/VISUAL DEVICE. ROUGH-IN SUCH THAT BOTTOM OF VISUAL LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
<b>E</b> c	FIRE ALARM HORN AUDIO DEVICE. ROUGH-IN SUCH THAT BOTTOM OF DEVICE IS NO LESS THAN 80"AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
Ê	FIRE ALARM SYSTEM BELL
0	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED, UNO
(D)	FIRE ALARM SMOKE DUCT DETECTOR
RTS	REMOTE TEST STATION FOR FA DUCT DETECTOR
TS	TAMPER SWITCH
FS	FLOW SWITCH
HD	HEAT DETECTOR
©	CO DETECTOR
■ <sup>D</sup>	MAGNETIC DOOR HOLDER, AT 72" AFF UNO
<del>                                     </del>	MOTORIZED SMOKE DAMPER
	FA SMOKE DAMPER

	DISTRIBUTION SYMBOL LEGEND
SYMBOL	DESCRIPTION
	ELECTRICAL PANEL, SURFACE MOUNTED.
П	ELECTRICAL PANEL, FLUSH MOUNTED.
T1	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH

	LIGHTING & CONTROL SYMBOL LEGEND		ABBREVIATIONS
SYMBOL	DESCRIPTION	AFF	ABOVE FINISHED FLOOR
\$ <sub>x</sub>	20A SWITCH AT 44" CL AFF, UNO FOR SWTICH 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 0 - OCCUPANCY SENSOR v - VACANCY SENSOR	AFG ACH AL BKR CU CKT DWG EC EF EWC FLA	ABOVE FINSHED GRADE ABOVE COUNTER HEIGHT ALUMINUM BREAKER COPPER CIRCUIT DRAWING EMPTY CONDUIT EXHAUST FAN ELECTRIC WATER COOLER FULL LOAD AMPS
\$\$	TWO SWITCHES IN COMMON BOX - FOR MULTILEVEL CONTROL AT 44" CL AFF, UNO	FU FWE	FUSE FURNISHED WITH EQUIPMENT
<u>o</u> s	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED	GC	GENERAL CONTRACTOR
PO	LIGHTING CONTROL PHOTOCELL	GFI/GFCI HPS	GROUND FAULT INTERRUPTER DEVICE HIGH PRESSURE SODIUM
<b>©</b> S	DAYLIGHT SENSOR	IG LRA LTG	ISOLATED GROUND LOCKED ROTER AMPS LIGHTING(L)
	REFER ALSO TO LIGHTING CIRCUITING GUIDE.	MCA MCB MCC MDP MFR	MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MANUFACTURER
NL NL	LIGHT FIXTURE, HALF SHADING INDICATES EMERGENCY BACKUP. "NL" INDICATES 24/7 OPERATION (UNSWITCHED).	MH MLO MOCP MSB	METAL HALIDE MAIN LUG ONLY MAXIMUM OVERCURRENT CIRCUIT PROTECT
\$ <b>★ ♦ ₽</b>	EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.	NL NIC NTS	MAIN SWITCHBOARD NIGHT LIGHT NOT IN CONTRACT NOT TO SCALE
	EMERGENCY LIGHTING FIXTURE, WITH BATTERY. REFER TO LIGHT FIXTURE SCHEDULE	PH PNL	PHASE PANEL
$\downarrow \Theta \downarrow$	EXIT SIGN	RCPT REQD	RECEPTACLE REQUIRED
$\aleph$	CEILING FAN	RTU SP SW	ROOFTOP UNIT SURGE PROTECTED DEVICE SWITCH
	<u> </u>	UGND UH	UNDERGROUND UNIT HEATER
	TECHNOLOGY SYMBOL LEGEND	UNO W/	UNLESS NOTED OTHERWISE WITH WATER HEATER
SYMBOL	DESCRIPTION	WP XFMR	WEATHER PROOF TRANSFORMER
4	VOICE / DATA ROUGH-IN BOX, AT 18" AFF UNO. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.		
lacktriangledown	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.		

SYMBOL	DESCRIPTION
B / X-1 (a)	LIGHTING TYPE AND CIRCUIT DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER B: LIGHT FIXUTRE TYPE, REFER TO LIGHT FIXTURE SCHEDULE
	—SWITCHING SCHEME OR ZONE
	POWER CIRCUITING GUIDE
SYMBOL	DESCRIPTION
XXX ♥ X-1 <b>~</b>	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

LIGHTING CIRCUITING GUIDE

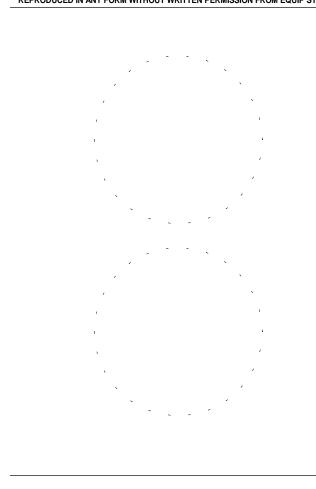
	LIGHTING FIXTURE SCHEDULE												
TYPE	FIXTURE DESCRIPTION	LAMP	FIXTURE	FIXTURE	MOUNTING CATALO	OG SERIES	NOTES						
IIFE	FIXTURE DESCRIPTION	TYPE	WATTAGE VOLTAGE		MOUNTING	OG SERIES	NOTES						
A1	2'x4' RECESSED LED FLAT PANEL (4100 LUMEN)	LED (3500K)	40 W	277 V	COLUMBIA: CFP24-4135								
A2	2'x2' 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: IHOLC6	6DR-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	Chroma-Q: INSPIRE FULL								
IA	4' LED LENSED STRIP FIXTURE (2500 LUMEN)	LED (3500K)	19 W	277 V	COLUMBIA: LCL4-35LW-EDU	U							
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-12	2040K90							
R1	6" RECESSED CAN LED FIXTURE (1800 LUMENS)	LED (3500K)	22 W	277 V	PRESCOLITE: LC6SL-6LCSL-	L-18L35K8							
R1E	6" RECESSED CAN LED FIXTURE (1800 LUMENS)	LED (3500K)	22 W	277 V	PRESCOLITE: LC6SLEM-6LC	CSL-18L35K8EM							
WP	LED WALLPACK	LED (4000K)	50 W	277 V	SYLVANIA: WALPAK-2C-050-	)-UNV-7-40-CO-BZ							
	COMBINATION WHITE THERMOPLASTIC LED EXIT SIGN, RED LETTERS, EMERGENCY BATTERY BACK-UP, LED LIGHTING HEADS	LED	4 W	277 V	COMPASS: CCR								

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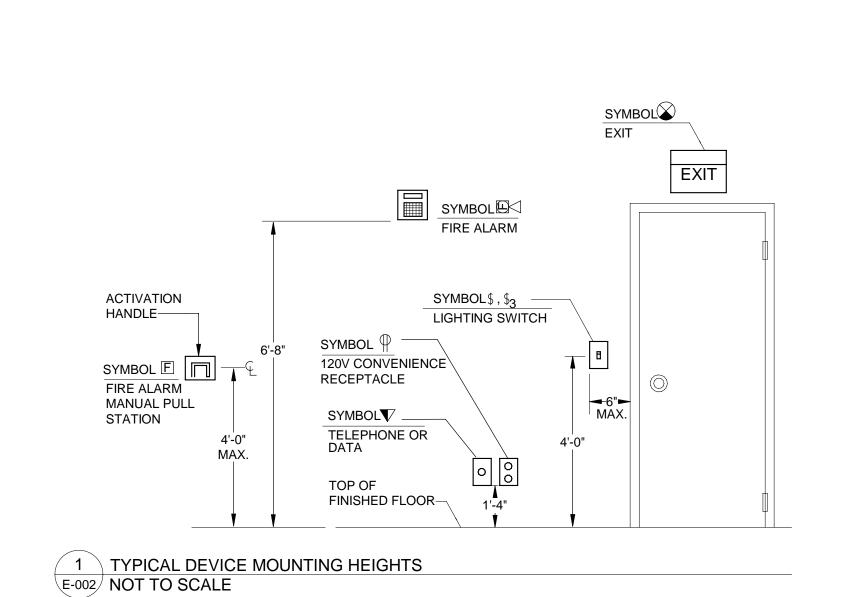
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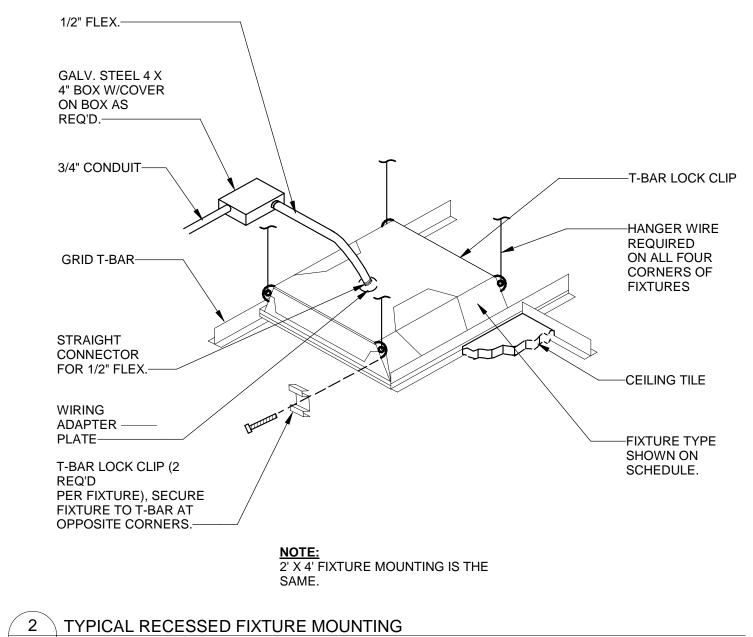
SCHEDULE OF REVISIONS

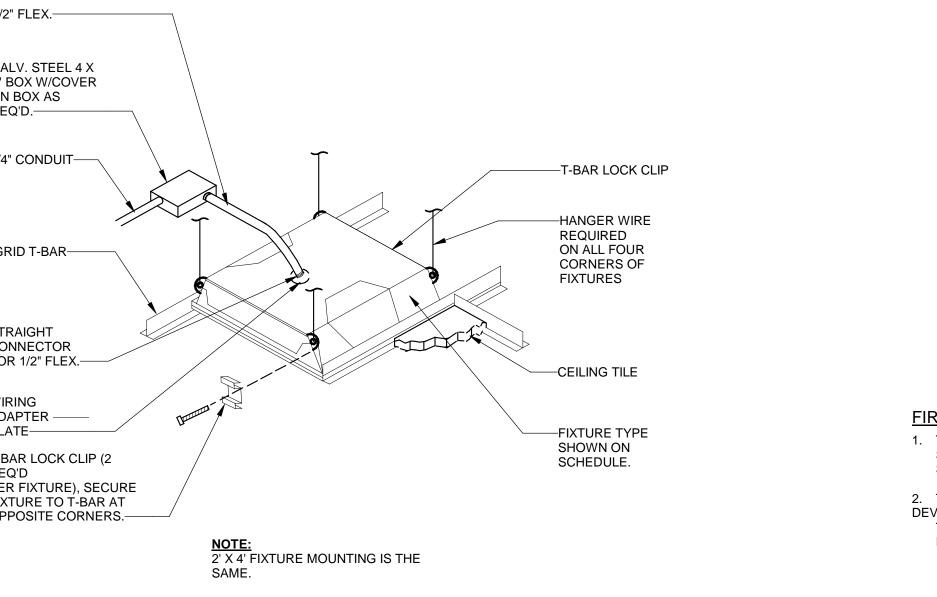
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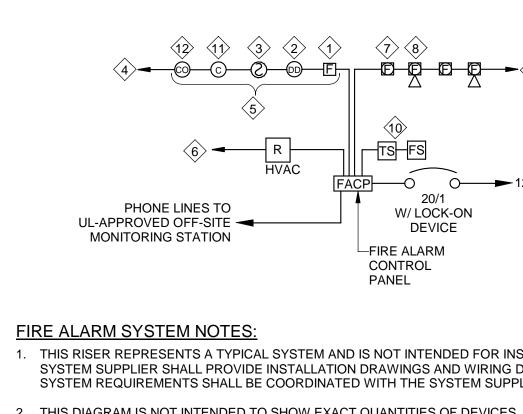
PROJECT NUMBER: 190106
PROJECT DATE: 10/24/2019
PROJECT ENGINEER: TPW
PROJECT TEAM: MJW

ELECTRICAL LEGEND AND NOTES









- 1. THIS RISER REPRESENTS A TYPICAL SYSTEM AND IS NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS. EXACT SYSTEM REQUIREMENTS SHALL BE COORDINATED WITH THE SYSTEM SUPPLIER.
- THIS DIAGRAM IS NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES, AND NOT ALL TYPES SHOWN IN THIS DIAGRAM MAY BE USED ON THIS PARTICULAR PROJECT. REFER TO PLAN FOR EXACT DEVICE QUANTITY AND TYPES.

3 TYPICAL FIRE ALARM RISER E-002 NOT TO SCALE

## FIRE ALARM RISER DIAGRAM NOTES: (#) MANUAL PULL STATION.

- 2. DUCT DETECTOR. ONE PER UNIT IN DUCT.
- 3. PHOTOELECTRIC SMOKE DETECTOR.
- 4. COMMUNICATIONS WIRING LOOP. RETURN TO FACP (CLASS 'A' CIRCUIT).
- 5. TYPICAL SYSTEM INITIATION DEVICE. REFER TO
- PLANS FOR EXACT TYPES AND QUANTITIES. 6. HVAC SHUT DOWN CIRCUIT. ROUTE TO SHUTDOWN
- RELAYS AT EACH UNIT. 7. STROBE UNIT, TYPICAL. MOUNTED AT 80" AFF TO MEET
- ADA REQUIREMENTS.
- 8. COMBINATION HORN/STROBE UNIT. TYPICAL. MOUNTED AT 80" AFF TO MEET ADA REQUIREMENTS.
- 9. TO ADDITIONAL HORN/STROBE UNITS NOT INDICATED.
- RETURN TO FACP (CLASS 'A' CIRCUIT). 10. TAMPER AND FLOW SWITCH CONNECTION AT SPRINKLER RISER.
- 11. 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.

12. SLEEPING AREA CARBON MONOXIDE DETECTOR

**INTERIOR LIGHTING CONTROLLER NOTES:** 

INTERIOR LIGHTING CONTROLLER IS TO BE NEMA 1 ENCLOSURE, SIZED

AS REQUIRED. PROVIDE ENGRAVED NAMEPLATE ON DOOR.

TIGHT TYPE OR APPROVED EQUAL. MOUNT SWITCH ON DOOR

CONTACTOR IS TO BE SQUARE D CLASS 8903 TYPE L ELECTRICALLY

TIMECLOCK IS TO BE TORK EWZ103 ASTRONOMIC DIGITAL TIMER OR

ALL EMERGENCY LIGHTING FED FROM INTERIOR LIGHTING CIRCUITS

SHALL HAVE CONTINUOUS HOT LEAD THAT BYPASSES THE CONTACTOR.

APPROVED EQUAL. COORDINATE WITH OWNER FOR MOUNTING LOCATION AND SETTINGS.

HELD LIGHTING CONTACTOR OR APPROVED EQUAL. CONTACTS

ARE TO BE 30A CONTINUOUS RATED, QUANTITY AS SHOWN.

H-O-A SWITCH IS TO BE SQUARE D#9001K5438, OIL

AND PROVIDE NAMEPLATE ENGRAVED AS SHOWN.

6. COORDINATE TIME-CLOCK SETTINGS WITH OWNER.

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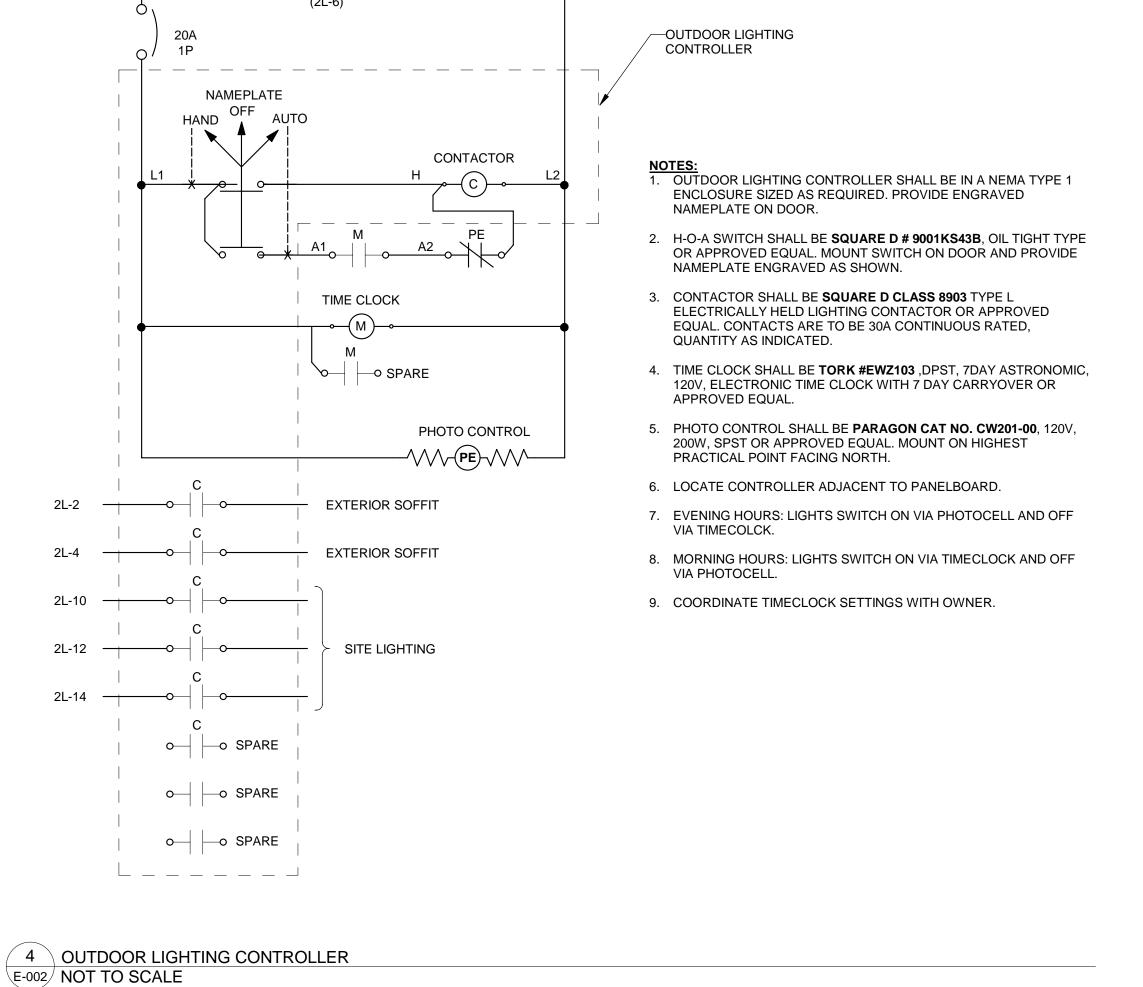
**DESIGN DEVELOPMENT** 

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

PROJECT TEAM: MJW

**ELECTRICAL DETAILS** 

E-002



E-002 NOT TO SCALE

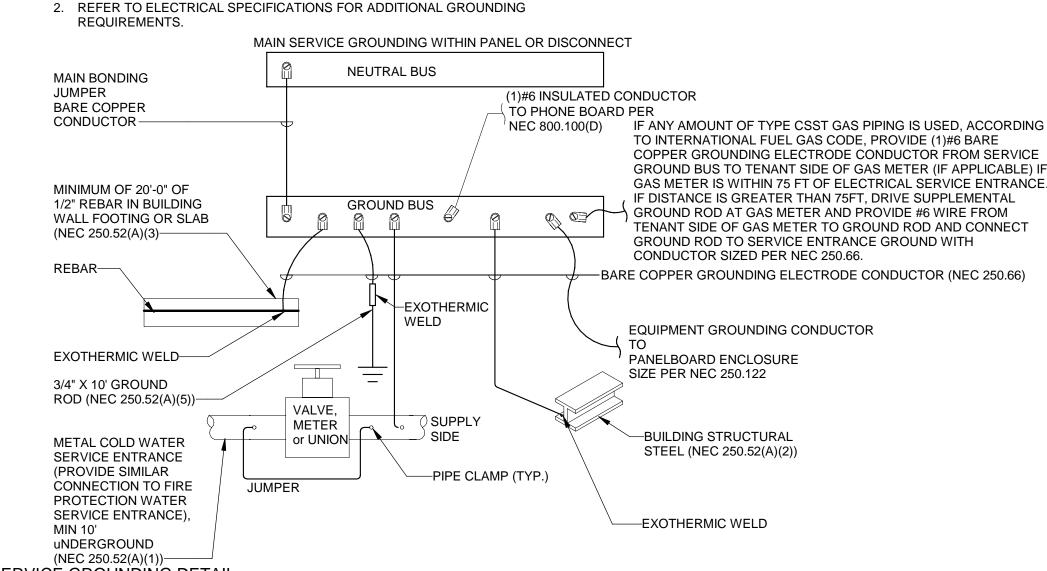
-INDOOR LIGHTING 20A CONTROLLER NAMEPLATE CONTACTOR TIME CLOCK MAIN LOBBY - EMERGENCY BATTERY O HOUSE KEEPING - EMERGENCY BATTERY COORIDOR / OPEN OFFICE - EMERGENCY BATTERY

5 INDOOR LIGHTING CONTROLLER E-002 NOT TO SCALE

**GROUNDING NOTES:** 

1. ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.

2. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL GROUNDING



—GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKER (20A UNLESS OTHERWISE NOTED) RUN SEPARATE NEUTRAL FOR EACH INDIVIDUAL RECEPTACLE CIRCUIT FED FROM GFI BREAKER. 000 —EQUIPMENT GROUND NEUTRAL SERVICE PANEL

 $^{\prime}$  6  $^{\setminus}$  WIRING METHOD FOR RECEPTACLE CIRCUIT WITH G.F.I. E-002 NOT TO SCALE

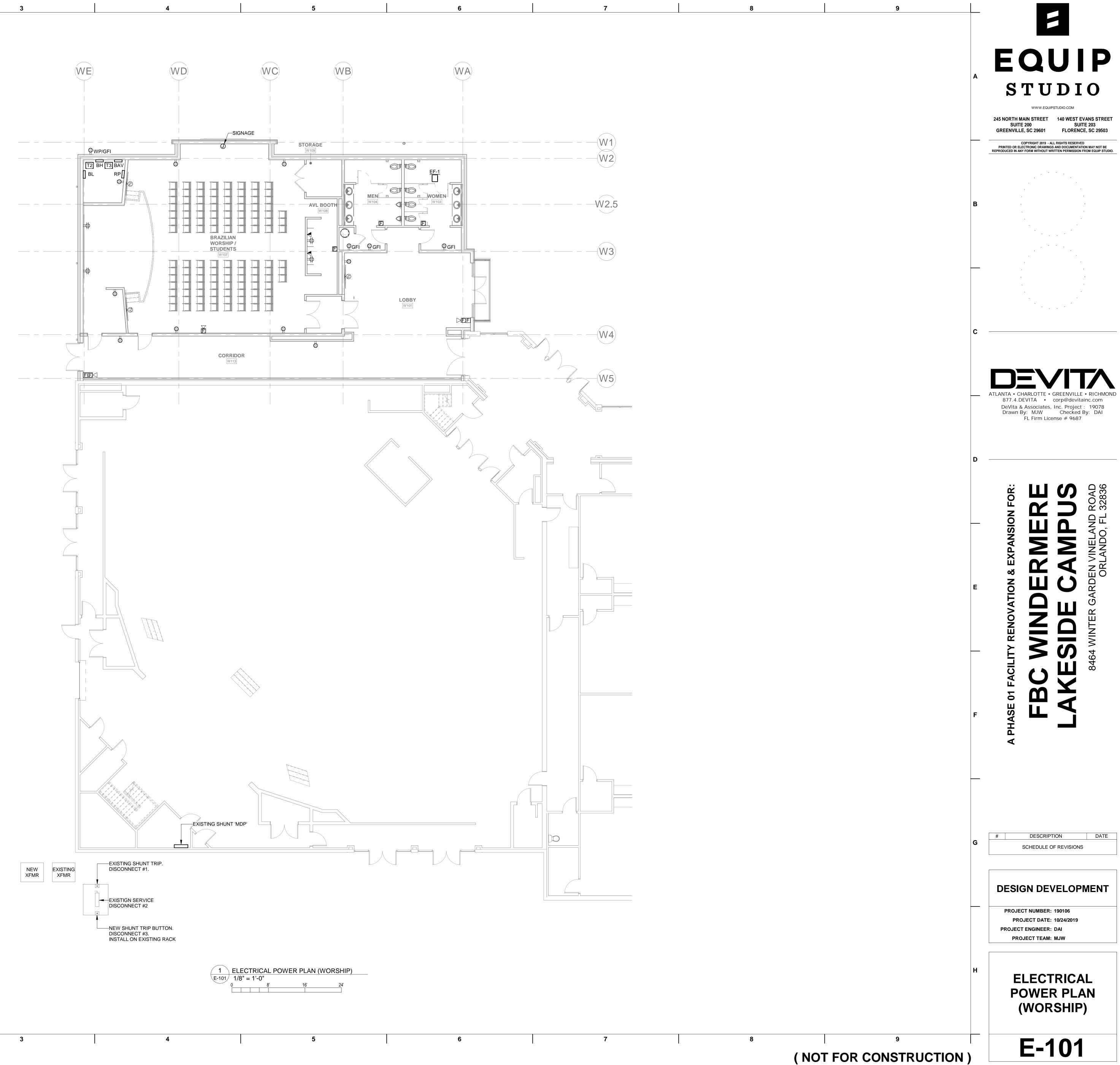
( NOT FOR CONSTRUCTION )

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TO INTERNATIONAL FUEL GAS CODE, PROVIDE (1)#6 BARE COPPER GROUNDING ELECTRODE CONDUCTOR FROM SERVICE GROUND BUS TO TENANT SIDE OF GAS METER (IF APPLICABLE) IF GAS METER IS WITHIN 75 FT OF ELECTRICAL SERVICE ENTRANCE. IF DISTANCE IS GREATER THAN 75FT, DRIVE SUPPLEMENTAL GROUND ROD AT GAS METER AND PROVIDE #6 WIRE FROM TENANT SIDE OF GAS METER TO GROUND ROD AND CONNECT GROUND ROD TO SERVICE ENTRANCE GROUND WITH CONDUCTOR SIZED PER NEC 250.66.

BARE COPPER GROUNDING ELECTRODE CONDUCTOR (NEC 250.66) EQUIPMENT GROUNDING CONDUCTOR PANELBOARD ENCLOSURE

7 SERVICE GROUNDING DETAIL E-002 NOT TO SCALE

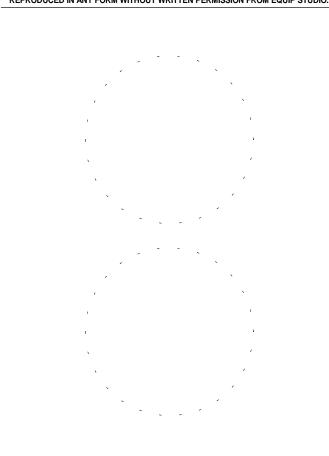




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C WINDERRMERE

KESIDE CAMPUS

8464 WINTER GARDEN VINELAND ROAD

H A

# DESCRIPTION DATE

SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

PROJECT NUMBER: 190106

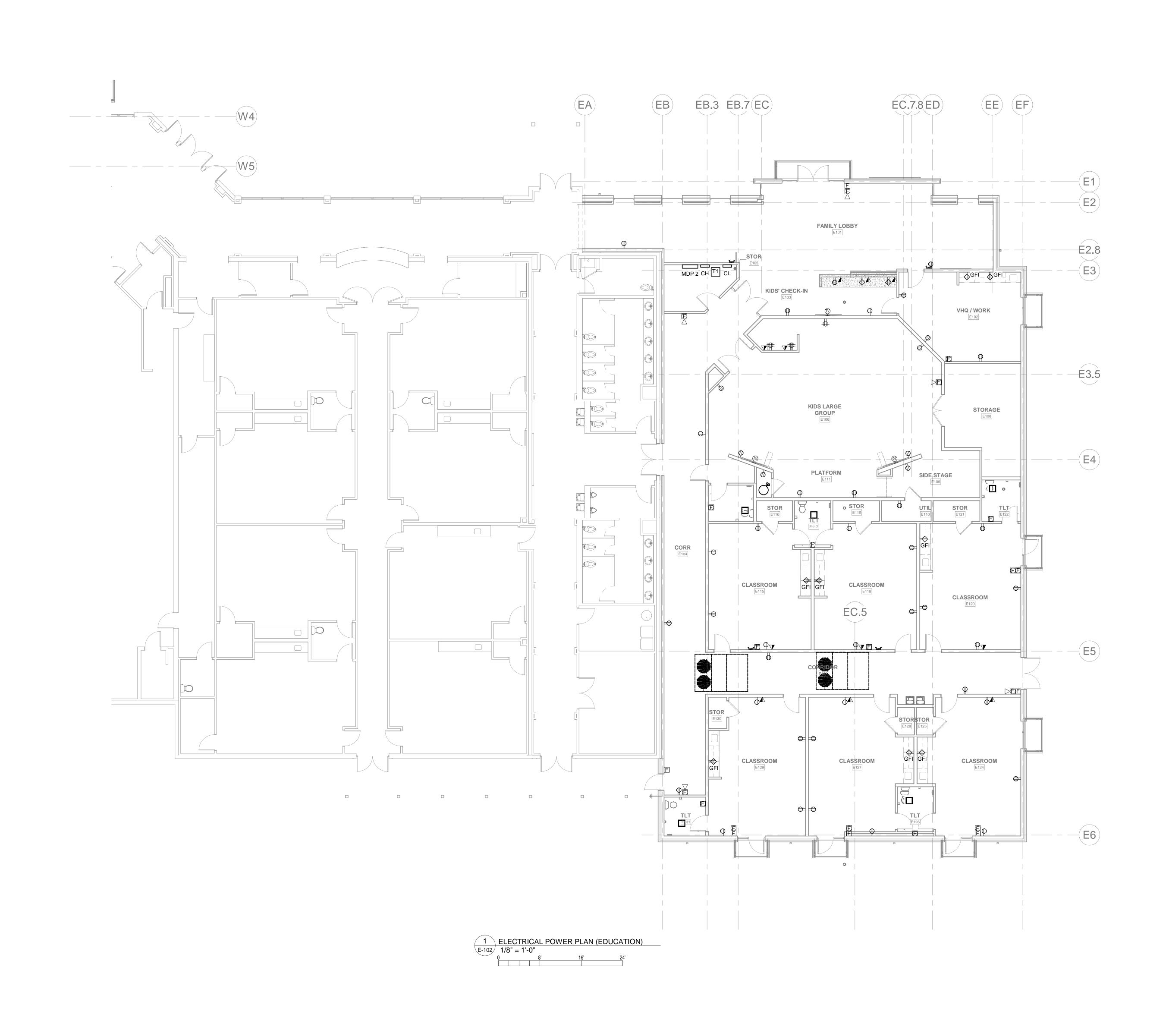
PROJECT DATE: 10/24/2019

PROJECT ENGINEER: DAI

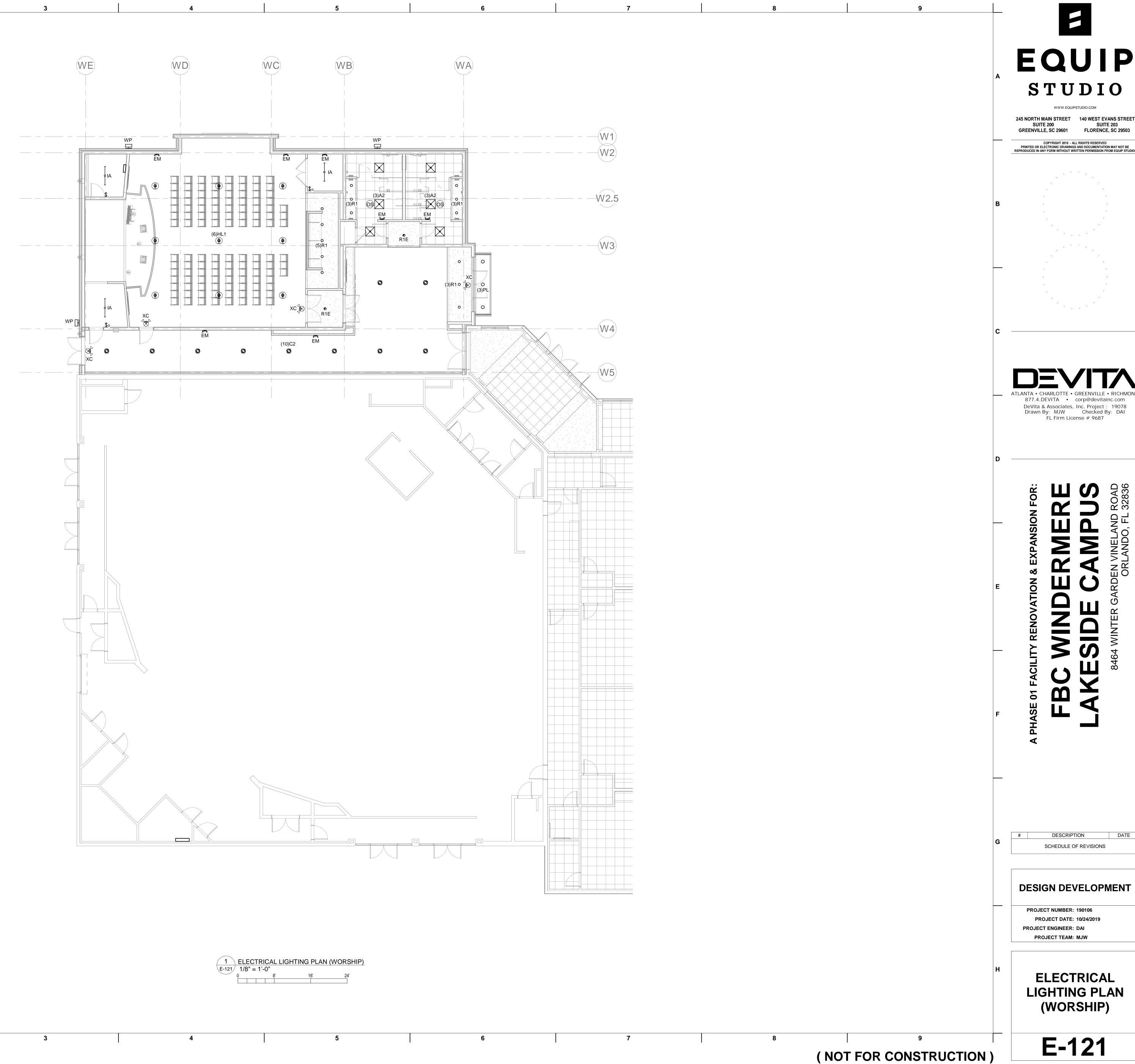
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ELECTRICAL POWER PLAN (EDUCATION)

E-102



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**ELECTRICAL** LIGHTING PLAN (WORSHIP)



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INDERREPERE
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WINTER GARDEN VINELAND ROAD

FBC WINDER LAKESIDE CA

# DESCRIPTION DATE

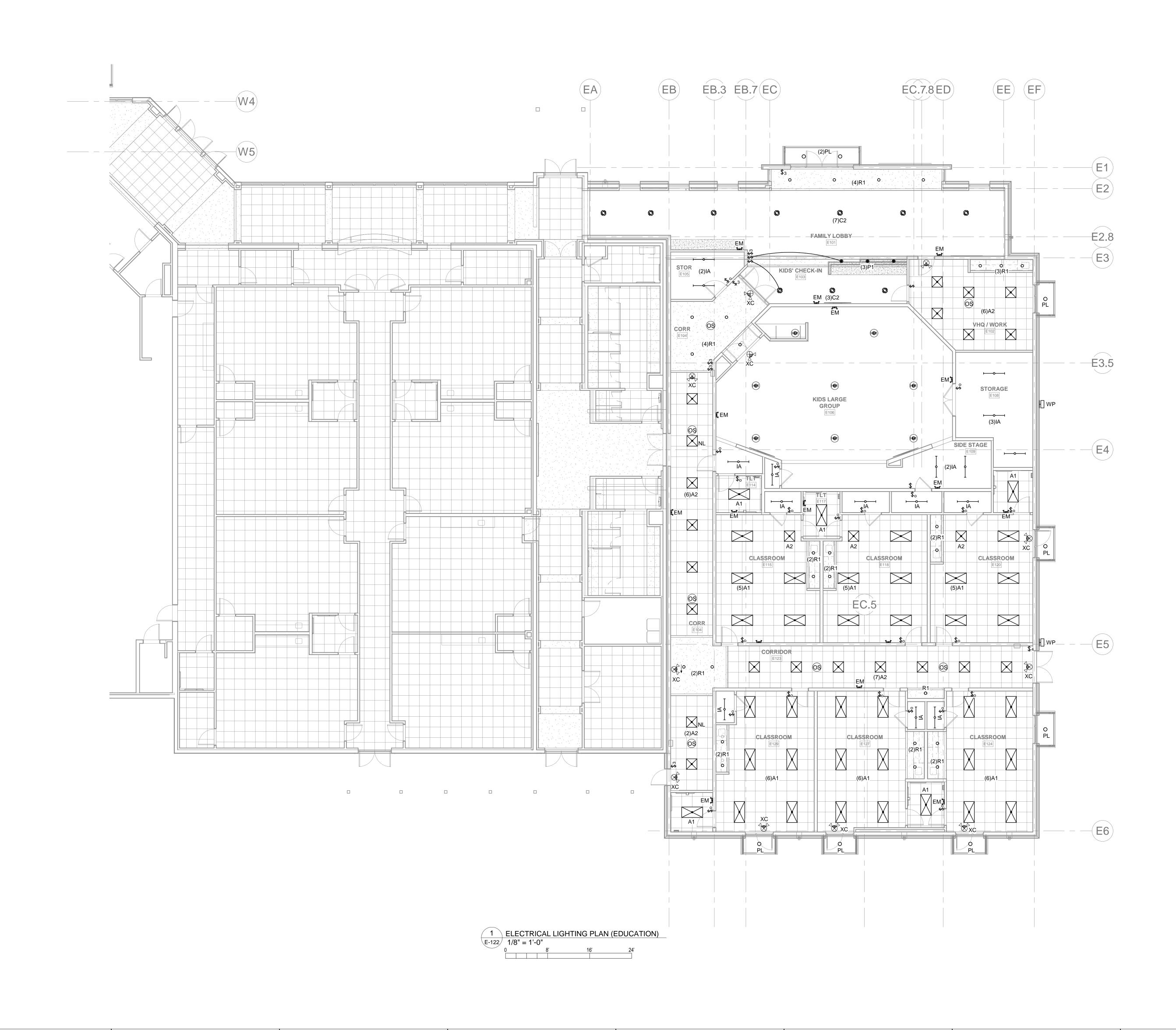
SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

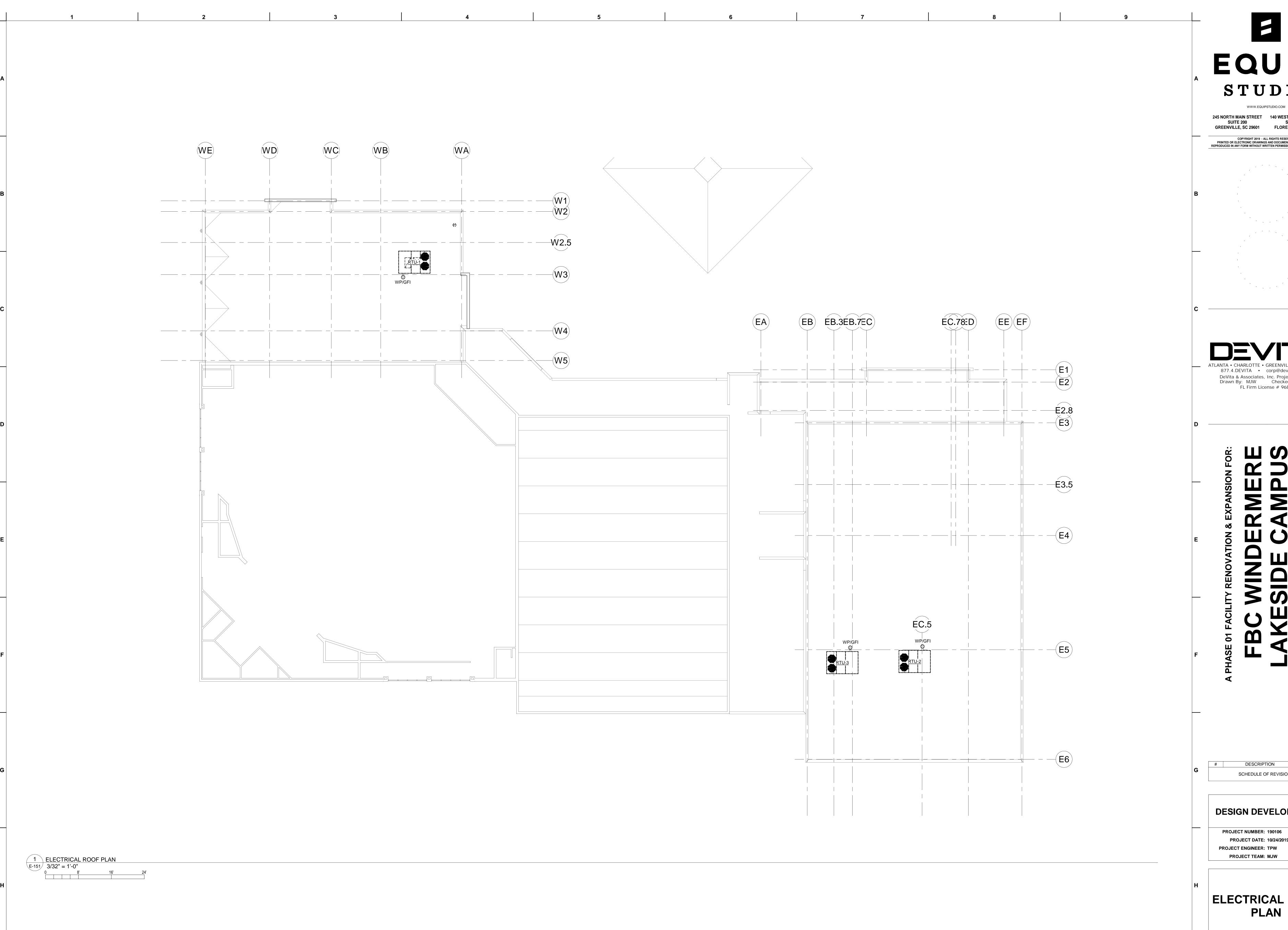
PROJECT NUMBER: 190106
PROJECT DATE: 10/24/2019
PROJECT ENGINEER: DAI
PROJECT TEAM: MJW

ELECTRICAL LIGHTING PLAN (EDUCATION)

E-122



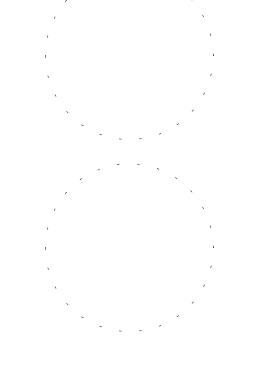
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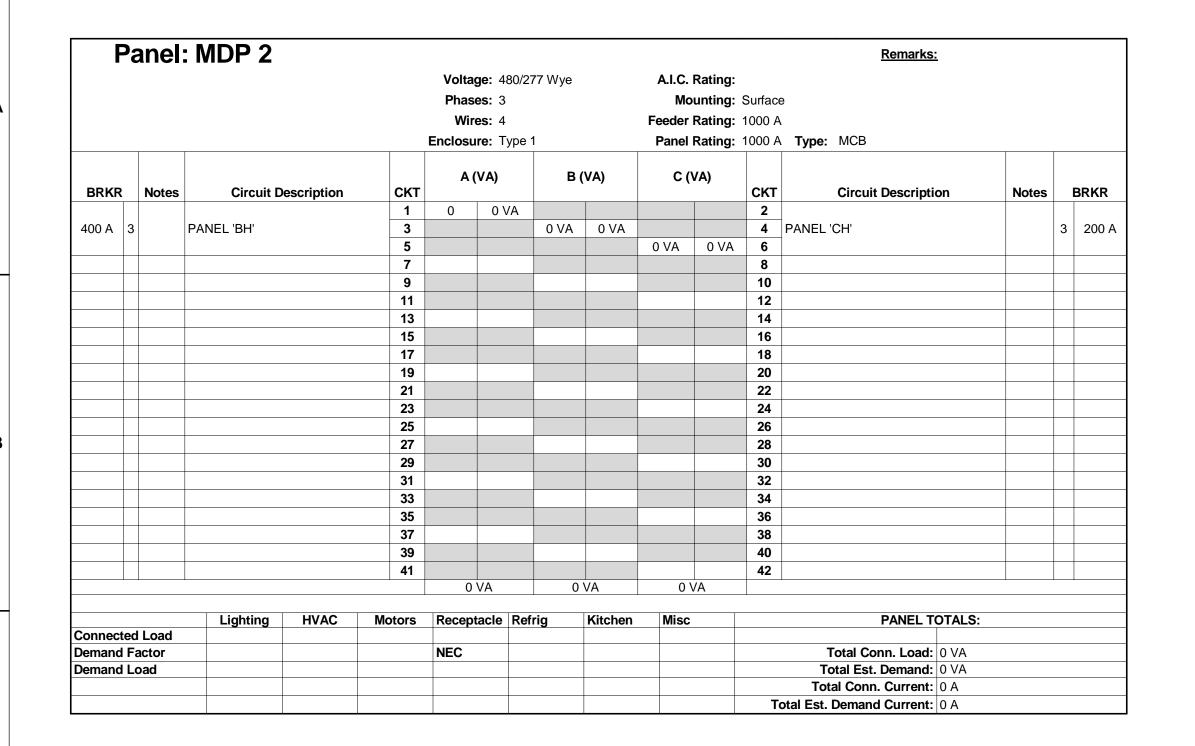
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DESCRIPTION SCHEDULE OF REVISIONS

**DESIGN DEVELOPMENT** 

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**ELECTRICAL ROOF PLAN** 



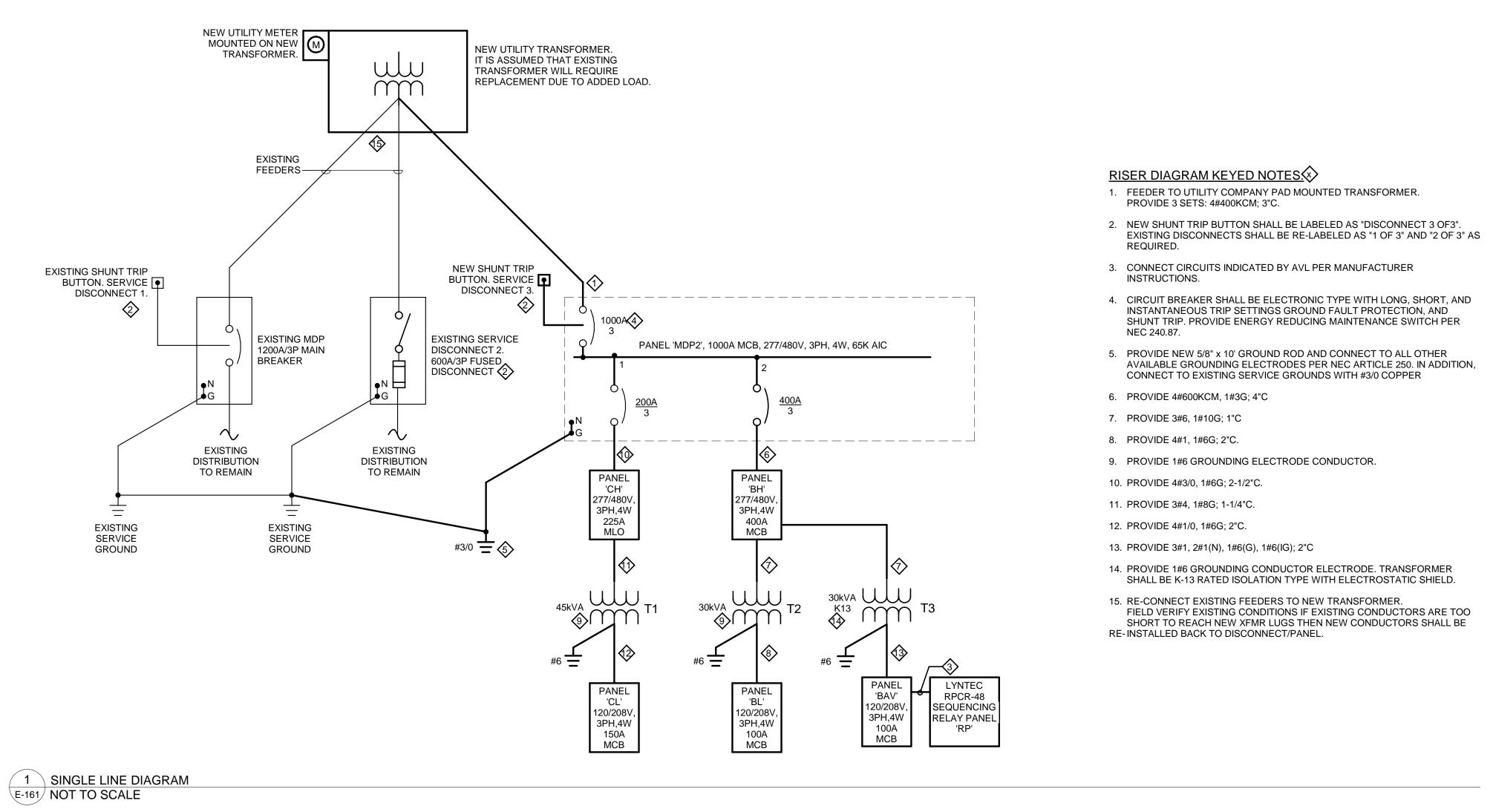
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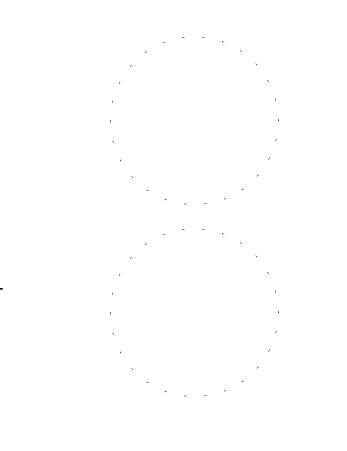
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-					Voltage: 1	20/208 Wy	e	A.I.C. Rating	) <b>:</b>						
					Phases: 3										
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BRKR	Notes	Circuit D	escription	СКТ	A (VA)		B (VA)	C (VA)	СКТ	Circuit Description	Notes	BRKR			
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**DESIGN DEVELOPMENT** 

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

PROJECT TEAM: MJW

**ELECTRICAL PANELS AND** RISER DIAGRAM