



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 PROJECT STANDARDS, LEGENDS AND CODE REVIEW LIFE SAFETY PLAN - FIRST FLOOR

(UNDER SEPARATE CONTRACT WITH OWNER)

BRITT, PETERS & ASSOCIATES, INC. 101 FALLS PARK DRIVE, SUITE 601 GREENVILLE, SC 29601 FRANK REPPI 864-271-8869

FREPPI@BRITTPETERS.COM

STRUCTURAL

GENERAL NOTES 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

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)

INTERIOR ELEVATIONS

FIRE PROTECTION

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

864-232-6642 TMORAN@DEVITAINC.COM

FP-101 FIRE PROTECTION NOTES & FLOOR PLAN

PLUMBING SANITARY WASTE & VENT PLAN (WORSHIP) P-102 PLUMBING SANITARY WASTE & VENT PLAN

(EDUCATION) PLUMBING DOMESTIC WATER PLAN (WORSHIP) P-112 PLUMBING DOMESTIC WATER PLAN (EDUCATION)

PLUMBING

DEVITA & ASSOCIATES, INC.

33 VILLA ROAD, SUITE 300

TMORAN@DEVITAINC.COM

P-001 PLUMBING LEGEND AND NOTES

GREENVILLE, SC 29615

P-002 PLUMBING DETAILS

TREY MORAN

864-232-6642

PLUMBING ROOF PLAN P-161 SANITARY WASTE & VENT RISER DIAGRAM P-162 DOMESTIC WATER RISER DIAGRAM

MECHANICAL

M-101 MECHANICAL FLOOR PLAN (WORSHIP)

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

M-102 MECHANICAL FLOOR PLAN (EDUCATION) M-151 MECHANICAL ROOF PLAN

M-002 MECHANICAL DETAILS

PROJECT SITE

Lakeside At Lakes
 Of Windermere

SITE ENTRY

PROJECT SITE

LOCATION MAP

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

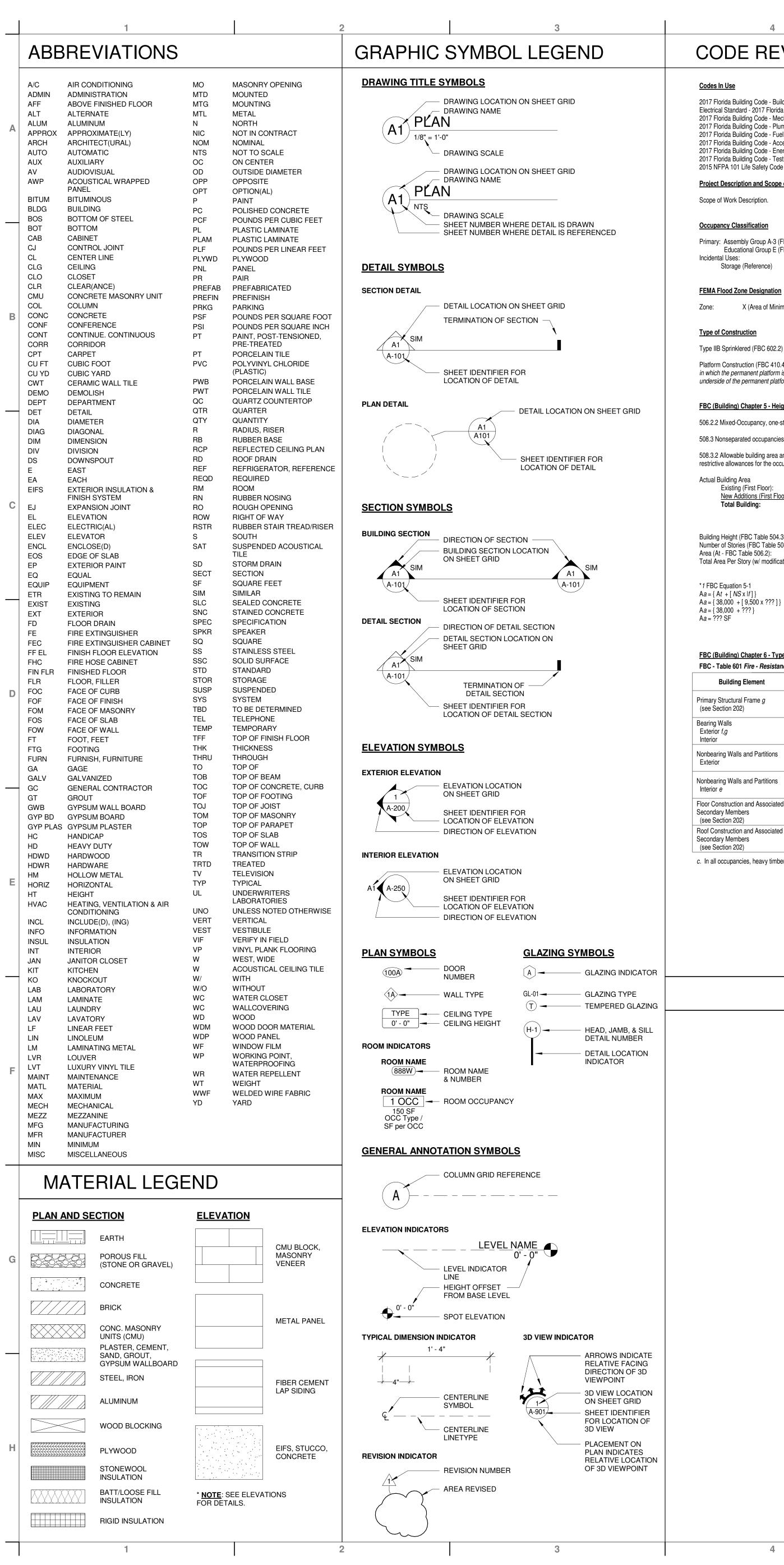
E-121 ELECTRICAL LIGHTING PLAN (WORSHIP)

33 VILLA ROAD, SUITE 300

GREENVILLE, SC 29615

TRAVIS WALKER

864-232-6642



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 2017 Florida Building Code - Test Protocols, 6th Edition 2015 NFPA 101 Life Safety Code Project Description and Scope of Work

Primary: Assembly Group A-3 (FBC 303.4). Place of Religious Worship Educational Group E (FBC 305.2). Day Care Facilities Incidental Uses: Storage (Reference)

FEMA Flood Zone Designation

X (Area of Minimal Flood Hazard)

Type of Construction

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

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

*2 FBC Equation 5-5 If = [F/P - .25] W / 30If = [?? / ?? - .25] ?? / 30|f = [??]??

*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	Typ	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 1	2 0	2 1/HT	1 1	0 0
Nonbearing Walls and Partitions Exterior				5	See Table 60	2			
Nonbearing Walls and Partitions Interior <i>e</i>	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. (Ex 3) Fire walls shall be permitted to terminate at the interior surface of noncombustible exterior Horizontal Continuity: 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.

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 Assembly Rating (hours)	Door Vision	Fire Rated Glazing Marking Door Vision Panel	Minimum Sid Transom Ass Rating (ho	sembly	Fire-Rated Glazing Marking Sidelite/Transom Panel		
	(hours)			e	Fire protection	Fire resistance	Fire protection	Fire resistance	
Fire walls and fire	3	3 <i>a</i>	Not Permitted	Not Permitted	Not Permitted	3	Not Permitted	W-180	
barriers having a required fire-	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	

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

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):

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: Minimum Required Corridor Width: **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)

Not less than 3 for occupant load > 500 and < 1,000 (LSC 7.4.1.2 (1) Minimum Number of Exits: **Not less than 4** for occupant load > 1,000 (LSC 7.4.1.2 (2)) Headroom Requirements:

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 Egress Capacity Factors: 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

Roof Covering Classification: Class C or Better (FBC Table 1505.1)

FBC (Building) Chapter 17 - Special Inspections - Required

(See Structural Specification)

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

Table 403.1 Minimum Number of Plumbing Fixtures

Occupants *	Fixture	Requ		Provided				
1,908 = 954M / 954W	rixture	Male	Female	Male	Female	Unisex		
	Water Closet	1 per 150 = 6.36	1 per 75 = 12.72	9	14	5		
	Lavatories	1 per 200 = 4.77	1 per 200 = 4.77	7	12	5		
Assembly (A-3)	Showers	0	0	0	0	0		
	Drinking Fountains	1 per 1,000	4 Existing + 2 New					
	Service Sink	1 service si	ink required	1 provided				

* 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

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	iption	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 Wall	I	NR	0
Floors	Joist / Framing (st	eel / wood)	R-30	N/A
	Unheated Slab		NR	0
Slab-on-Grade Floors	0	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

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

PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM EQUIP S'

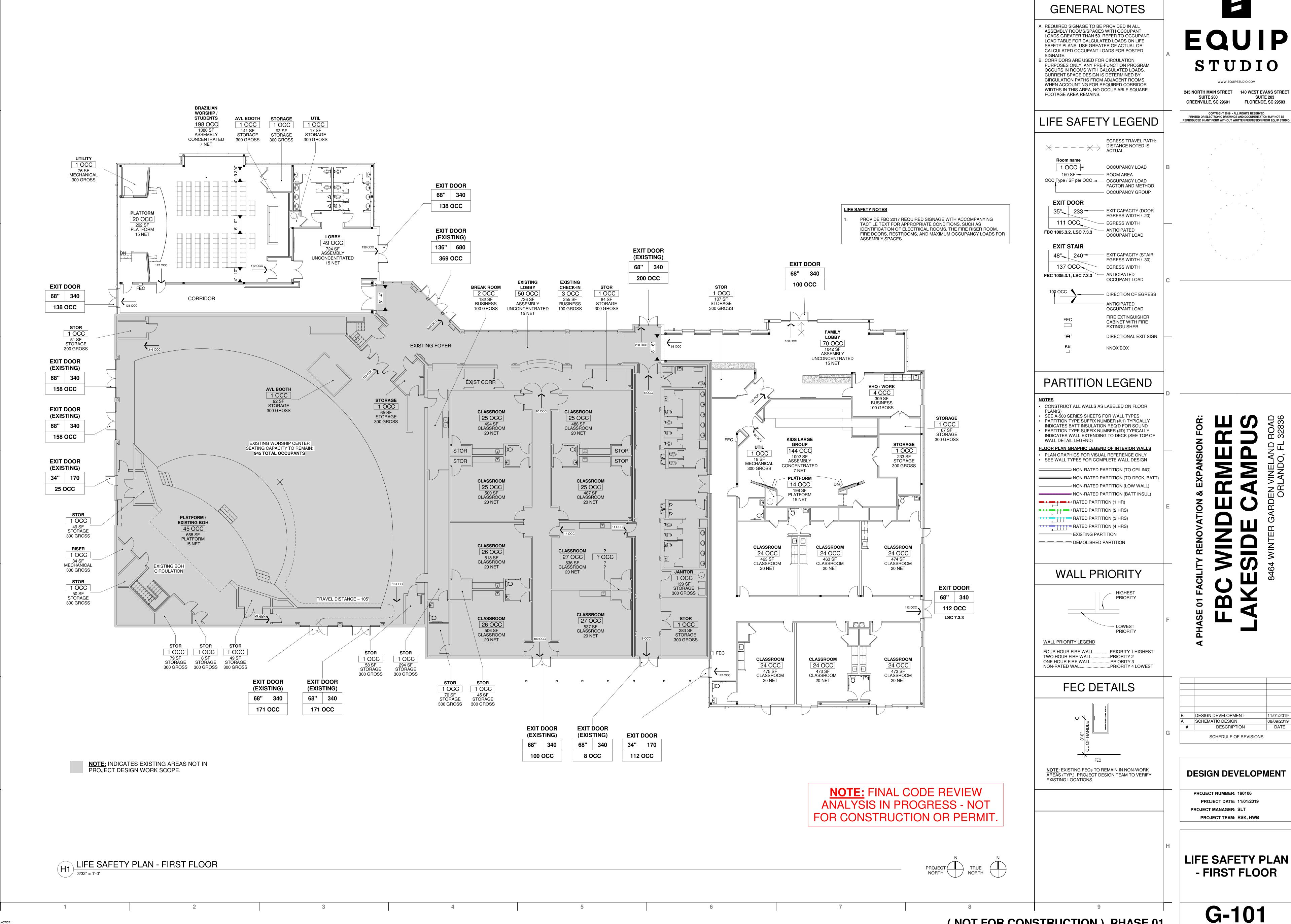
DESIGN DEVELOPMENT SCHEMATIC DESIGN 08/09/2019 DESCRIPTION DATE SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

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

PROJECT STANDARDS, **LEGENDS AND CODE REVIEW**

G-002



EQUIP

08/09/2019 DATE

				F	PLUME	BING F	IXTUF	RE SCHEDULE	
		XTURE							
MARK	FIXTURE	MANUFACTURER	MODEL	CW	HW	S/W	V	REMARKS	
<u>WC-1</u>	WATER CLOSET (FLOOR MOUNTED, FLUSH VALVE, ADA)	KOHLER	HIGHCLIFF K-96057-0	1"	-	3"	2"	MANUAL FLUSH VALVE: SLOAN ROYAL 111-1.6, 1.6 GPF; SEAT LESS COVER: CHURCH ; ELONGATED, OPEN FRONT	
<u>WC-2</u>	WATER CLOSET (FLOOR MOUNTED, FLUSH VALVE)	KOHLER	WELLCOMME K-96053-0	1"	-	3"	2"	MANUAL FLUSH VALVE: SLOAN ROYAL 111-1.6, 1.6 GPF; SEAT LESS COVER: CHURCH ; ELONGATED, OPEN FRONT	
<u>WC-3</u>	WATER CLOSET (FLOOR MOUNTED, FLUSH TANK, JUVENILE)	AMERICAN STANDARD	BABY DEVRO 2315.228	1/2"	-	3"	2"	MANUAL FLUSH TANK, 1.28 GPF; SEAT LESS COVER: AMERICAN STANDARD 5001G.055; ELONGATED, OPEN FRONT	
<u>UR-1</u>	URINAL (WALL MOUNTED, FLUSH VALVE, ADA)	KOHLER	DEXTER K-5452-ET-0	3/4"	-	2"	2"	SENSOR FLUSH VALVE: ZURN ZEMS6003AV-MOB-W1-ULF; EXPOSED, POLISHED CHROME, 0.125 GPF	
<u>UR-2</u>	URINAL (WALL MOUNTED, FLUSH VALVE, ADA)	KOHLER	DEXTER K-5452-ET-0	3/4"	-	2"	2"	SENSOR FLUSH VALVE: ZURN ZEMS6003AV-MOB-W1-ULF; EXPOSED, POLISHED CHROME, 0.125 GPF	
<u>L-1</u>	LAVATORY (DROP-IN, OVAL, ADA)	KOHLER	BRYANT K-2699-1-0	3/8"	3/8"	1 1/2"	-	VITREOUS CHINA, SINGLE HOLE; HARDWIRED SENSOR FAUCET: SLOAN ETF-80, 0.5 GPM	
<u>L-2</u>	LAVATORY (WALL HUNG, RECTANGULAR, ADA)	KOHLER	PINOIR K-2028-1-0	3/8"	3/8"	1 1/2"	2"	VITREOUS CHINA, SINGLE HOLE; HARDWIRED SENSOR FAUCET: SLOAN ETF-80, 0.5 GPM	
<u>SK-1</u>	SINK (DROP-IN, STAINLESS STEEL, SINGLE BOWL)	ELKAY	LRAD202265	3/8"	3/8"	2"	2"	MANUAL FAUCET:	
EWC-1	ELECTRIC WATER COOLER (BI-LEVEL, ADA)	ELKAY	LRPB28K	1/2"	-	1 1/4"	1 1/4"	-	
NFWH-1	NON-FREEZE WALL HYDRANT	ZURN	Z1300-WC	3/4"	-	-	-	CONFIRM WALL THICKNESS AT EACH LOCATION PRIOR TO ORDERING	

NOTE: SIZES INDICATE CONNECTION TO FIXTURE, REFER TO FLOOR PLANS FOR PIPE SIZES

	WATER APPURTENANCE SCHEDULE											
MARK		MANUFACTURER		CW	HW	SS/W	V	REMARKS				
<u>TMV-1</u>	THERMOSTATIC MIXING VALVE	LEONARD	370-LF-BP	3/4"	3/4"	-	-	INSTALL PER MANUFACTURERS RECOMMENDATIONS FOR RECIRCULATED DISTRIBUTION				
TMV-2	THERMOSTATIC MIXING VALVE	LEONARD	270-LF-BP	1/2"	1/2"	-	-	INSTALL PER MANUFACTURERS RECOMMENDATIONS FOR NON-RECIRCULATED DISTRIBUTION				
<u>ET-1</u>	EXPANSION TANK	AMTROL	ST-12C-DD	3/4"	-	-	-	-				
<u>ET-1</u>	EXPANSION TANK	AMTROL	ST-5C-DD	3/4"	-	-	-	-				
<u>WHA-X</u>	WATER HAMMER ARRESTOR	PPP	SC SERIES (SYSTEM RATED)	Х	X	-	-	SIZE PER SELECTED UNIT				
<u>RP-1</u>	RECIRCULATION PUMP	B&G	NBF-8S/LW	-	-	-	-	1/2"HWR, 115V/1PH/60HZ, 0.39A; LEAD FREE; 39 WATTS				
=	-	-	-	-	-	-	-	-				

NOTE: SIZES INDICATE CONNECTION TO FIXTURE, REFER TO FLOOR PLANS FOR PIPE SIZES

	DRAIN AND DRAINAGE APPURTENANCE SCHEDULE											
MARK	FIXTURE	MANUFACTURER	MODEL	SS/W	V	ST	OST	REMARKS				
<u>FD-1</u>	FLOOR DRAIN (FINISHED SPACES)	ZURN	Z415B	Χ	Х	-	1	W/ <u>TG-1</u>				
<u>FD-2</u>	FLOOR DRAIN (MECHANICAL ROOM)	ZURN	Z507	Х	Х	-	1	W/ <u>TG-1</u>				
<u>FD-3</u>	FLOOR DRAIN (OPEN HUB)	ZURN	Z415I	Х	Х	-	1	W/ <u>TG-1</u>				
<u>FCO-1</u>	FLOOR CLEANOUT	ZURN	Z1400-K	Х	-	-	1	-				
<u>WCO-1</u>	WALL CLEANOUT	ZURN	Z1446	Х	-	-	-	-				
ECO-1	EXTERIOR CLEANOUT	ZURN	Z1474	X	-	-	-	-				
<u>TG-1</u>	TRAP GUARD	PROVENT	TG SERIES	Χ	-	-	-	SIZE TO SUIT DRAIN OUTLET DIAMETER				

NOTE: REFER TO PLANS FOR DRAIN SIZES

	ELECTRIC WATER HEATER SCHEDULE												
MARK	LOCATION	MANUFACTURER	MODEL	TANK CAPACITY	INPUT (KW)	RECOVERY RATE (90°F RISE)	V / PH / HZ	FLA	NOTES				
<u>EWH-1</u>	EDUCATION	AO SMITH	DEL-30-5	30 GAL	5.0	23 GPH	208 / 1 / 60	24.0	1 THRU 8				
EWH-2	WORSHIP	AO SMITH	DEL-20-3	20 GAL	3.0	14 GPH	208 / 1 / 60	14.4	1 THRU 8				
<u>-</u>	-	-	-	-	-	-	-	-	-				

NOTES:

- 1. EQUIPMENT AND ALL ASSOCIATED WATER SIDE PIPING, VALVES, AND ACCESSORIES SHALL BE PROVIDED BY PLUMBING CONTRACTOR
 2. EQUIPMENT SHALL MEET ASHRAE 90.1 STANDARDS FOR THERMAL EFFICIENCY AND STANDBY LOSS
- 3. PROVIDE FACTORY INSTALLED ANODE ROD(S) TO PREVENT ELECTROLYTIC CORROSION OF TANK.
 4. PROVIDE FACTORY INSTALLED TEMPERATURE AND PRESSURE SAFETY RELIEF VALVE (T&P VALVE).
- 5. PLUMBING CONTRACTOR SHALL PROVIDE HARD COPPER DRAIN LINE FROM T&P VALVE DOWN TO AN APPROVED RECEPTOR WITH AIR GAP. PIPING TO BE FULL SIZE OF T&P VALVE DISCHARGE CONNECTION.
- 6. DISCONNECT SWITCH TO BE PROVIDED BY ELECTRICAL CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR.
 7. REFER TO WATER HEATER DETAIL FOR ADDITIONAL INSTALLATION INFORMATION.

			W	ASTE
MARK	FIXTURE / EQUIPMENT	QUANTITY	TOTAL DFU (PER TYPE)	TOTAL DFU (PER FIXTURE)
<u>WC</u>	WATER CLOSET	6	4.0	24
<u>UR</u>	URINAL	2	2.0	4
<u>L</u>	LAVATORY	8	1.0	8
3"FD	3" FLOOR DRAIN	3	0	0
=	-	-	-	-
	TOTAL			36.0

			W	/ASTE
MARK	FIXTURE / EQUIPMENT	QUANTITY	TOTAL DFU (PER TYPE)	TOTAL DFU (PER FIXTURE)
<u>WC</u>	WATER CLOSET (FLUSH TANK)	5	4.0	20
<u>L</u>	LAVATORY	5	1.0	5
<u>SK</u>	SINK	7	2.0	14
<u>EWC</u>	ELECTRIC WATER COOLER	2	0.5	1
<u>3"FD</u>	3" FLOOR DRAIN	1	0	0
-	-	-	-	-
	TOTAL			40

	DOMESTIC WATER SUPPLY CALCULATION (WORSHIP)											
			WATER									
MARK	FIXTURE / EQUIPMENT	QUANTITY	CWFU (PER FIXTURE)	HWFU (PER FIXTURE)	TOTAL WSFU (PER TYPE)	TOTAL WSFU (PER FIXTURE)						
<u>WC</u>	WATER CLOSET (FLUSH VALVE)	6	10.0	-	10.0	60						
<u>UR</u>	URINAL	2	5.0	-	5.0	10						
<u>L</u>	LAVATORY	8	1.5	1.5	2.0	16						
=	-	-	-	-	-	-						
	TOTAL					86						
		DEMAND AT 8	6.0 WSFU (FLUSH V	/ALVE) = 63.1 GPM =	2" WATER SUPPLY	80						

	FIXTURE / EQUIPMENT	QUANTITY	WATER			
IARK			CWFU (PER FIXTURE)	HWFU (PER FIXTURE)	TOTAL WSFU (PER TYPE)	TOTAL WSFU (PER FIXTURE)
<u>wc</u>	WATER CLOSET (FLUSH TANK)	5	2.2	-	2.2	11
L	LAVATORY	5	0.5	0.5	0.7	3.5
<u>SK</u>	SINK	7	1.0	1.0	1.4	9.8
<u>EWC</u>	ELECTRIC WATER COOLER	2	0.25	-	0.25	0.5
IFWH	NON-FREEZE WALL HYDRANT	1	2.0	-	2.0	2.0
Ξ	-	-	-	-	-	-
	TOTAL					26.8

PLUMBING SPECIFICATIONS

- CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES AND HEALTH REGULATIONS HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL FEES AND PERMITS REQUIRED.
- 2. CONTRACTOR SHALL GUARANTEE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP, EQUIPMENT AND MATERIAL FURNISHED ON PROJECT FOR A PERIOD OF ONE YEAR
- 3. FROM DATE OF FINAL ACCEPTANCE. PROVIDE EXTENDED GUARANTEES FOR EQUIPMENT SUCH AS WATER HEATERS WHEN REQUIRED. SUBMIT FOR APPROVAL THE NUMBER OF SHOP DRAWINGS AND MANUFACTURERS LITERATURE ON ALL PLUMBING FIXTURES & MATERIALS AS REQUIRED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- 4. CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE PREMISES AT AND ADJACENT TO PROPOSED WORK. VERIFY EXISTING PIPE SIZES, LOCATION AND SUITABILITY FOR CONNECTION TO THE NEW SYSTEM PRIOR TO BID.
- 5. DRAWINGS ARE DIAGRAMMATIC AND INTEND TO SHOW APPROXIMATE LOCATION OF PIPING, FIXTURES, ETC. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND COORDINATE WITH OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE MINOR ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL COOPERATE FULLY WITH OWNER IN SCHEDULING AND MAKING CONNECTIONS TO EXISTING SERVICE LINES SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND SHORTEST POSSIBLE INTERRUPTION OF SERVICE.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC., OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO PURCHASING EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. AND NEMA APPROVED.
- 8. MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" EITHER SIDE OF
- 9. CONTRACTOR SHALL FURNISH ACCESS PANELS, TO BE INSTALLED BY THE GENERAL CONTRACTOR, AS REQUIRED FOR PLUMBING INSTALLATIONS.
- 10. ALL SANITARY VENT ROOF PENETRATIONS SHALL BE A MINIMUM DISTANCE OF 10'-0" AWAY FROM ALL ROOFTOP MECHANICAL EQUIPMENT OR OTHER AIR INTAKE DEVICES.

PANEL TO STRUCTURE. ALL PIPING SHALL BE ROUTED AROUND THIS AREA.

- 11. ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS, AND SHALL NOT BE SUBJECT TO
- 12. CONTRACTOR SHALL TO COORDINATE AND IF NECESSARY, INSTALL, A NEW WATER METER AS PER REQUIREMENTS OF LOCAL UTILITY COMPANY. CONTRACTOR SHALL INCLUDE ALL TAP FEES AND COSTS INTO BID FOR A COMPLETE INSTALLATION.
- 13. DOMESTIC WATER PIPING OUTSIDE OF THE BUILDING BURIED BELOW GRADE SHALL BE TYPE "K" SOFT COPPER. WATER PIPING PASSING THROUGH OR UNDER FOOTINGS OR FOUNDATION WALLS SHALL BE SLEEVED OR OTHERWISE PROTECTED. COPPER PIPING PASSING UNDER AND THROUGH CONCRETE SLAB SHALL BE PROTECTED BY A PROTECTIVE SHEATHING OR WRAPPING TO PREVENT CORROSION TO THE COPPER PIPING.
- 14. ALL DOMESTIC HOT WATER AND COLD WATER PIPING ABOVE SLAB SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS USING "NO-LEAD" SOLDER. DOMESTIC WATER PIPING BELOW CONCRETE SLAB SHALL BE TYPE "K" SOFT COPPER. NO SOLDER JOINTS ARE ALLOWED BELOW CONCRETE SLAB. COPPER PIPING PASSING UNDER AND THROUGH CONCRETE SLAB OR WALLS SHALL BE PROTECTED WITH A PROTECTIVE SHEATHING OR WRAPPING TO PREVENT CORROSION TO THE COPPER PIPING.
- 15. PVC, CPVC, ABS AND PEX PIPING MAY BE USED IN LOW PRESSURE PORTIONS OF THE SYSTEMS (PRESSURES LESS THAN 100 PSIG). THIS INCLUDES PIPING DOWNSTREAM OF PRESSURE REDUCING VALVES AND ON THE UPPER LEVELS.
- 16. VALVES SERVING DOMESTIC WATER SYSTEMS SHALL BE BALL VALVES OR APPROVED EQUAL. ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE BY MAINTENANCE PERSONNEL.
- 17. PROVIDE 1" THICK FIBERGLASS PIPE INSULATION WITH SERVICE JACKET ON ALL DOMESTIC WATER PIPING.
 DOMESTIC COLD WATER PIPE INSULATION SHALL HAVE A CONTINUOUS VAPOR BARRIER.
- 18. ALL WATER PIPING SHOWN ROUTED IN EXTERIOR WALLS SHALL BE LOCATED INSIDE THE BUILDING INSULATION AND FINISHED WALL.
- 19. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND INVERT AT THE POINT OF CONNECTION TO THE SEWER SYSTEM BEFORE DETERMINING FINAL ROUTING OF SOIL, WASTE AND VENT PIPING.
- 20. ALL SOIL, WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON OR SCHEDULE 40 PVC DWV PLASTIC PIPE WHERE ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION FOR THIS INSTALLATION. PROVIDE 3M FIRE BARRIER CAULK CP-25 CAULKING, OR U.L. APPROVED EQUAL, AT ANY PENETRATION OF FIRE BATED ASSEMBLIES.
- 21. ALL SOIL, WASTE AND VENT PIPING SHALL BE UNIFORMLY GRADED AND SHALL HAVE A SLOPE OF NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR PIPE 4" AND
- 22. NUMBER OF PLUMBING FIXTURES REQUIRED SHALL BE IN ACCORDANCE WITH 2015 SOUTH CAROLINA PLUMBING CODE. HANDICAP REQUIREMENTS SHALL BE IN ACCORDANCE WITH ANSI A117.1-2009.
- 23. WET VENTING SHALL BE IN ACCORDANCE WITH 2015 SOUTH CAROLINA PLUMBING CODE SECTION 912

PLUMBING ABBREVIATIONS LEGEND

I LOMBING ADDICEVIATIONS ELSEND									
AFF	ABOVE FINISHED FLOOR	PD	PUMPED DISCHARGE						
CD	CONDENSATE DRAIN PIPING	RD	ROOF DRAIN						
DN	DOWN	SQFT	SQUARE FEET						
ECO	EXTERIOR CLEAN OUT	TD	TRENCH DRAIN						
EST	ESTIMATED	TG	TRAP GUARD						
EWC	ELECTRIC WATER COOLER	TYP	TYPICAL						
FCO	FLOOR CLEAN OUT	VTR	VENT THRU ROOF						
FD	FLOOR DRAIN	W	WASTE						
GPH	GALLONS PER HOUR	W&T	WASTE AND TRAP						
GPM	GALLONS PER MINUTE	WS	WASTE STACK						
NFWH	NON-FREEZE WALL HYDRANT	WCO	WALL CLEAN OUT						
НВ	HOSE BIBB	WH	WALL HYDRANT						
HD	HUB DRAIN	WHA	WATER HAMMER ARRESTER						
HW	DOMESTIC HOT WATER								

PLUMBING SYMBOLS LEGEND

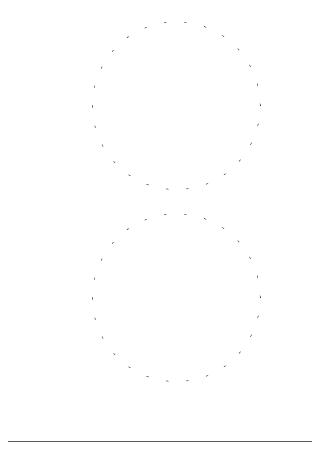
-	-	DOMESTIC COLD WATER - CW
-	- - - - - - - - - -	DOMESTIC HOT WATER - HW
← – -	- - - - - -	DOMESTIC HOT WATER RETURN - HWR
← − −∨	′ — — →	VENT PIPING ABOVE FLOOR - V
├ ──S	s 	SANITARY SEWER PIPING - SS
 ○	——	RISE AND FALL IN PIPING
⊢ ιδ ⊢	⊢ ⋈—≀	SHUT OFF VALVE
₩	— ₹	PRESSURE REDUCING VALVE
⊢	─	CHECK VALVE
⊢ ↓	⊢	GATE VALVE
<u></u>	⊦	TEMPERATURE & PRESSURE RELIEF VALVE
⊣ ⊢	_	UNION
4	þ	PUMP
Ф		TEMPERATURE GAUGE
l~	1	STRAINER

(NOT ALL SYMBOLS MAY BE USED)

EQUIF STUDIO

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

COPYRIGHT 2019 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE
REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM EQUIP STUDIO



ANTA • CHARLOTTE • GREENVILLE • RICHMOND 877.4.DEVITA • corp@devitainc.com
DeVita & Associates, Inc. Project : 19078
Drawn By: LTB Checked By: KFM

FL Firm License # 9687

CAMPUS ARDEN VINELAND ROAD

LAKESIDE CAM

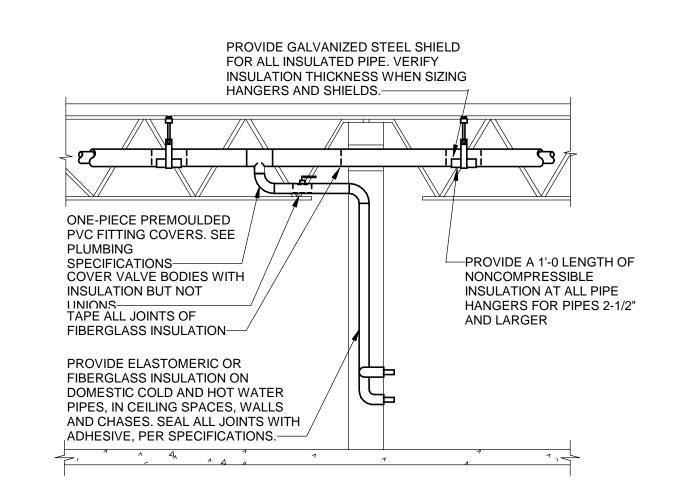
DESCRIPTION DATE

SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

PROJECT NUMBER: 190106
PROJECT DATE: 10/24/2019
PROJECT ENGINEER: KFM
PROJECT TEAM: LTB

PLUMBING LEGEND AND NOTES



—ALL-THREAD ROD



C-CLAMP, CONNECT TO

BAR JOIST-

SMALLER-

ROUTE PIPING

AS INDICATED ON TABLE.

5 \ PIPE HANGER

P-002 NOT TO SCALE

TOP OF BEAM OR STEEL

ADJUSTABLE BAND HANGER

AND CAST IRON PIPE 2" AND

WITHIN JOISTS/GIRDER-

FOR PIPE 3 1/2" AND SMALLER

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES

INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER.

DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZE:

CAST IRON: 10' AND WITHIN 1'-0" OF ALL JOINTS. ROD SIZES

FOR PIPE SIZE: 2" AND SMALLER = 3/8", 2 1/2" TO 3" = 1/2", 4" = 5/8",

WITHIN 1'-0" OF VALVES AND FITTINGS. PROVIDE SUPPLEMENTARY

STEEL STRUTS BETWEEN JOISTS IF REQUIRED, LOCATE HANGERS WITHIN 1'-0" OF EQUIPMENT CONNECTIONS. ANCHOR WATER

PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY.

MEMBERS. REFER TO CODE AND SPECIFICATIONS FOR FURTHER

MULTIPLE PARALLEL PIPES, SEE "TRAPEZE PIPE HANGER DETAIL."

INFORMATION. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY

LOCAL AUTHORITIES. TRAPEZE HANGERS MAY BE USED FOR

CHAINS AND PERFORATED STRAP IRON AND STEEL ARE NOT

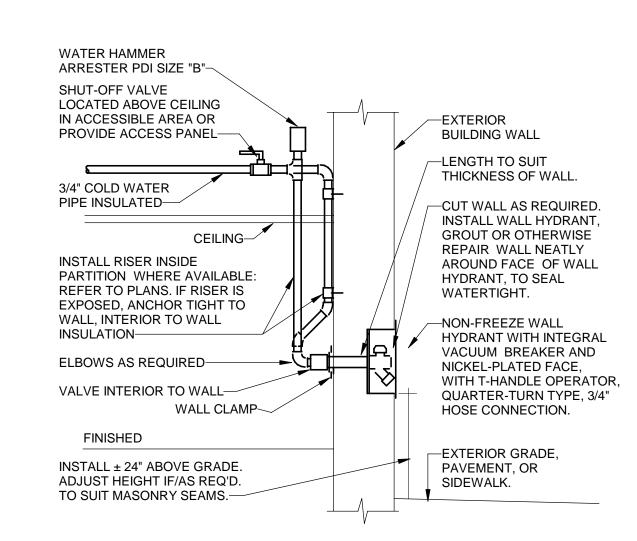
ACCEPTABLE. DO NOT SUSPEND PIPE FROM JOIST BRACING

NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE

DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN

6" = 3/4", 8" AND LARGER = 7/8". LOCATE HANGERS

CHASES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD

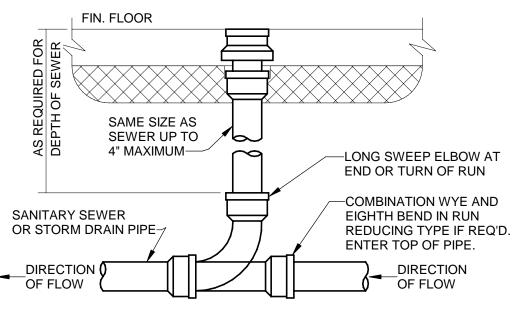


-VENT PIPING

LOCATED IN WALL

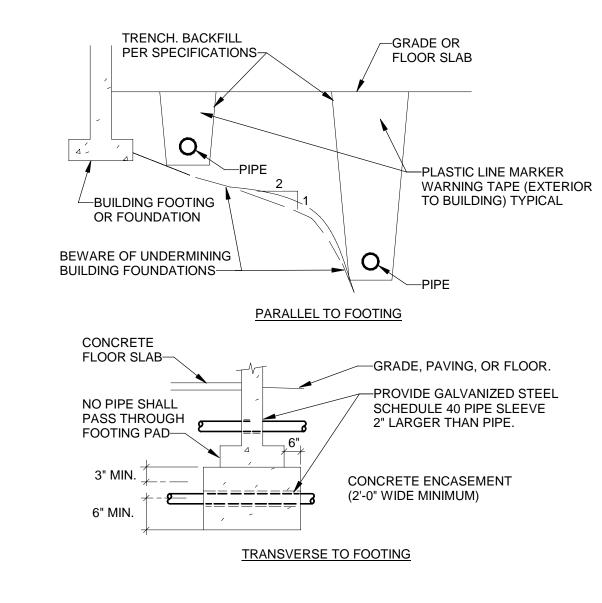
FIN. FLOOR

2 NON-FREEZE WALL HYDRANT - (NFWH-1) P-002 NOT TO SCALE



ROUND SECURED GASKETED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP (HEAVY DUTY GRATE) WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE GASKETED PLASTIC PLUG IN CAST IRON BODY. USE TEFLON JOINT COMPOUND ON PLUG THREADS. CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES. AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCH. SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER REQUIREMENTS.

3 FLOOR CLEANOUT SLAB ON GRADE - FCO P-002 NOT TO SCALE



VERIFY EXCAVATION CONDITIONS (SOIL/ROCK) WITH GEOTECHNICAL REPORT AND/OR SITE INVESTIGATION. REFER TO SPECS FOR OTHER CONDITIONS.

-THERMOMETER

COLD WATER SUPPLY TO WATER HEATER

—CHECK VALVE

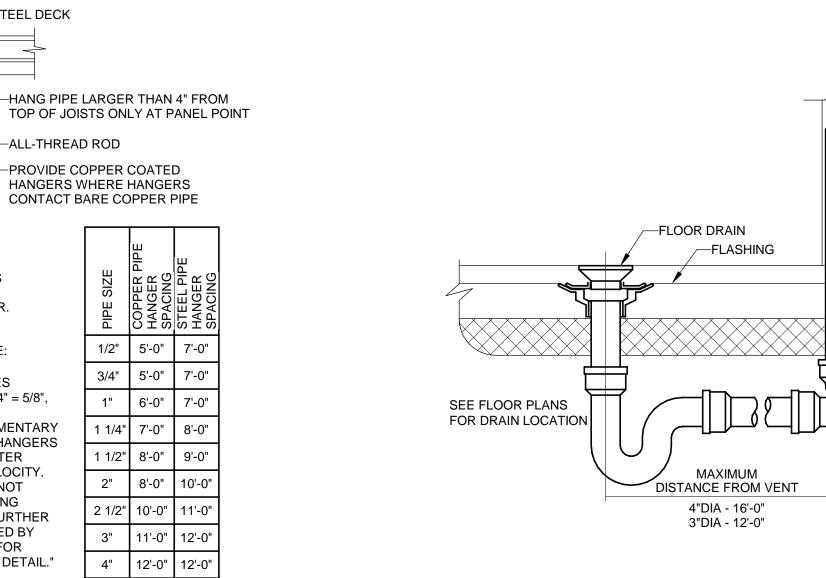
4 PIPE AND TRENCH LOCATION P-002 NOT TO SCALE

HOT WATER SUPPLY

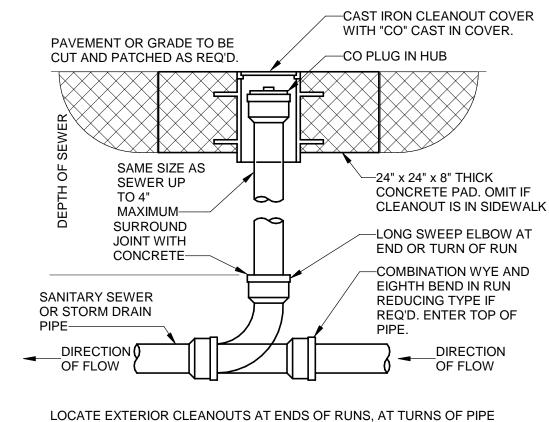
PIPE TO FIXTURES

THERMOSTATIC MIXING

(-----

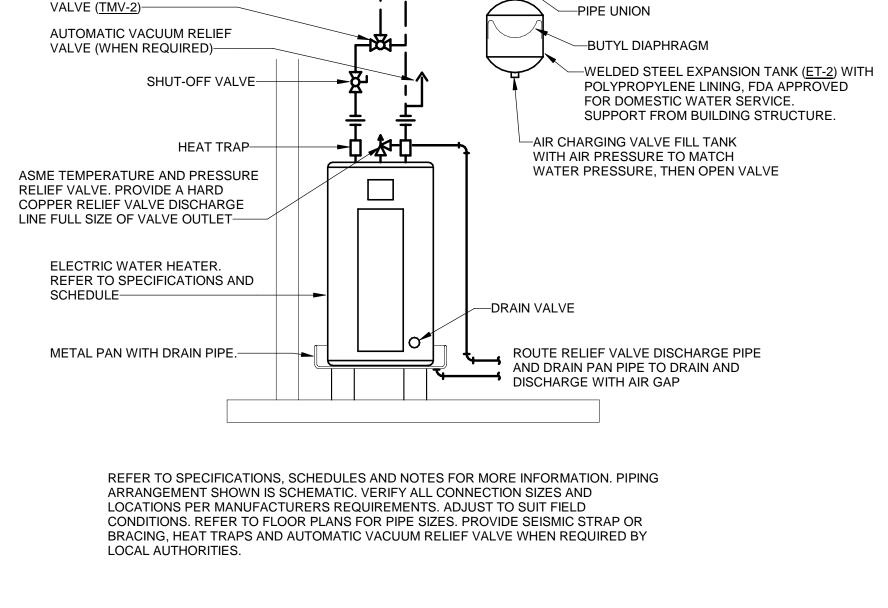




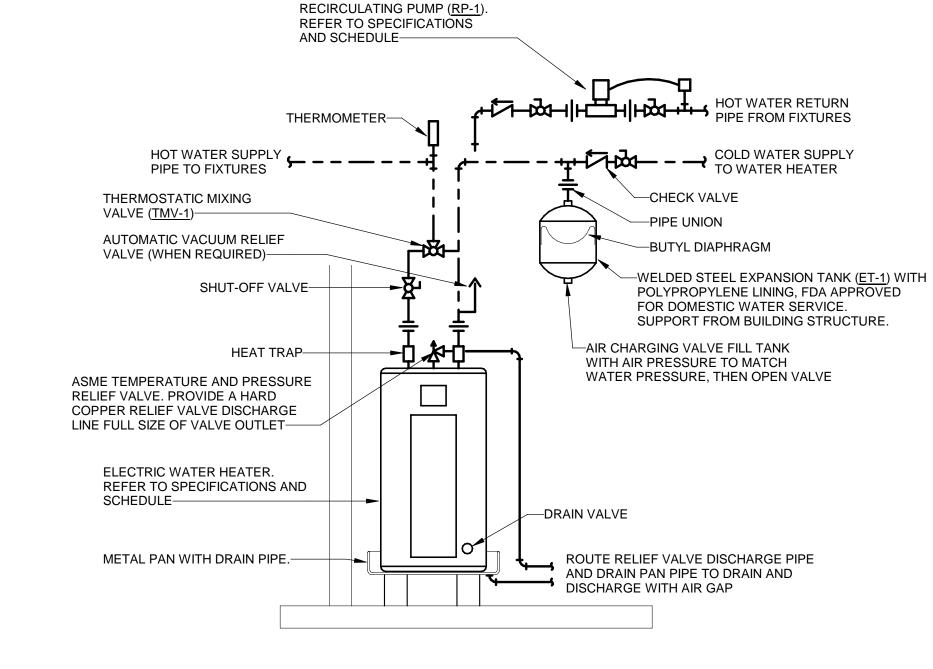


GREATER THAN 45 DEGREES, AT MAXIMUM 100' INTERVALS ON STRAIGHT RUNS, & WHERE SHOWN ON PLANS. VERIFY SOIL/ROCK CONDITIONS WITH GEOTECHNICAL REPORT OR SITE EXAMINATION. BACKFILL WITH CRUSHED ROCK TO COVER PIPE MIN. 6". PROVIDE EARTH BACKFILL & COMPACTION PER ARCHITECTURAL SPECIFICATIONS. REPAIR ANY SOD AND/OR PAVEMENT TO MATCH EXISTING.



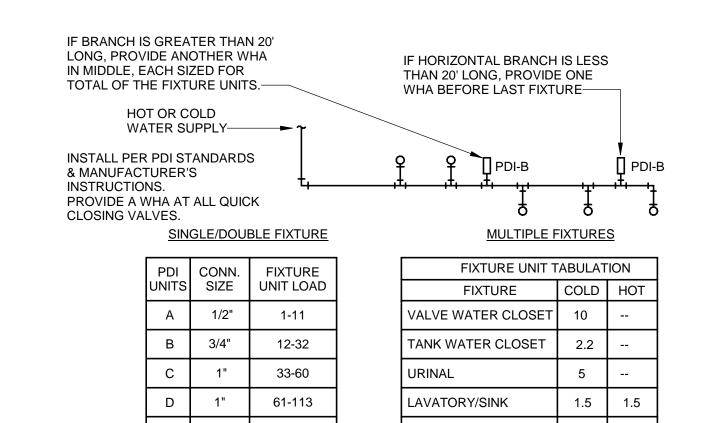






REFER TO SPECIFICATIONS, SCHEDULES AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. VERIFY ALL CONNECTION SIZES AND LOCATIONS PER MANUFACTURERS REQUIREMENTS. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLANS FOR PIPE SIZES. PROVIDE SEISMIC STRAP OR BRACING, HEAT TRAPS AND AUTOMATIC VACUUM RELIEF VALVE WHEN REQUIRED BY LOCAL AUTHORITIES.

12 WATER HEATER - (EWH-1) \P-002/ NOT TO SCALE



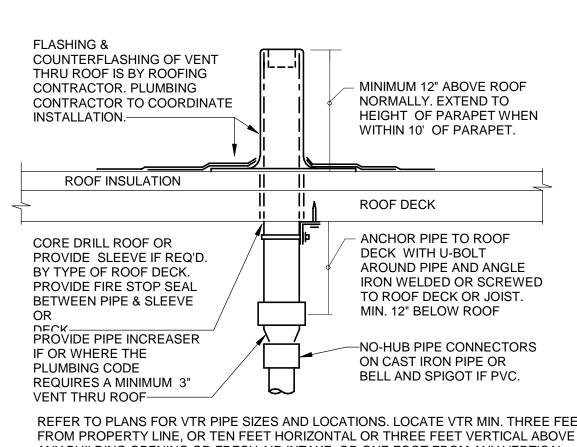
FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON & O-RING CONSTRUCTION, WHICH MUST MEET STANDARD PDI-WH-201, ASSE #1010 & ANSI #A112.26.1M CERTIFICATION. INSTALL IN VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA" WHERE

JANITOR'S SINK

SHOWER/BATHTUB/DF

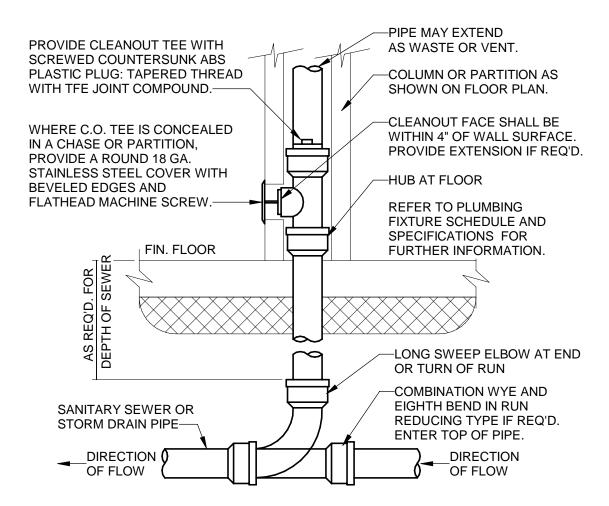
9 WATER HAMMER ARRESTERS - WHA P-002 NOT TO SCALE

155-330



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MIN. THREE FEET ANY BUILDING OPENING OR FRESH AIR INTAKE. OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

10 VENT THRU ROOF - VTR P-002/ NOT TO SCALE



PROVIDE WCO WHERE SHOWN ON PLAN AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN 4' OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

11 WALL CLEANOUT SLAB ON GRADE - WCO \P-002/ NOT TO SCALE

(NOT FOR CONSTRUCTION)

DO NOT SCALE DRAWINGS, USE DIMENSIONS SHOWN

STUDIO WWW.EQUIPSTUDIO.COM 245 NORTH MAIN STREET 140 WEST EVANS STREET SUITE 200 SUITE 203 FLORENCE, SC 29503 **GREENVILLE, SC 29601** COPYRIGHT 2019 - ALL RIGHTS RESERVED PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE

EQUIP

877.4.DEVITA • corp@devitainc.com DeVita & Associates, Inc. Project: 19078 Drawn By: LTB Checked By: KFM FL Firm License # 9687

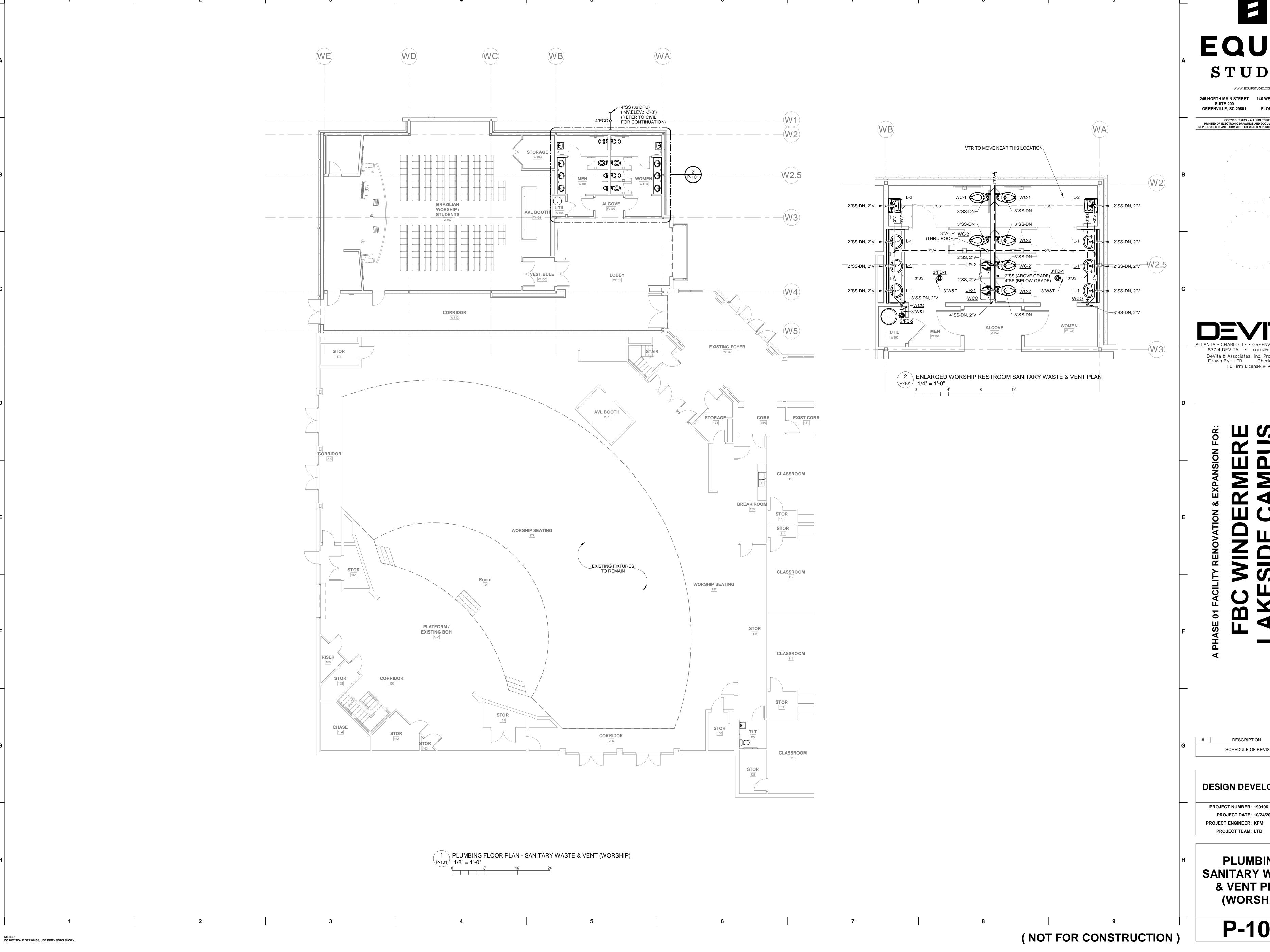
DESCRIPTION SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

PROJECT NUMBER: 190106

PROJECT DATE: 10/24/2019 PROJECT ENGINEER: KFM PROJECT TEAM: LTB

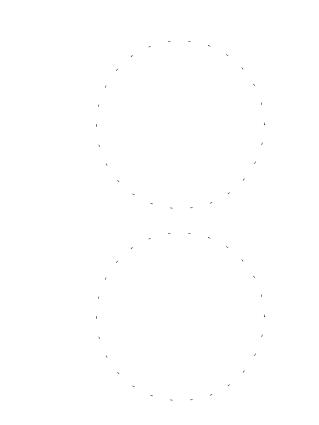
> **PLUMBING DETAILS**



EQUIP STUDIO

WWW.EQUIPSTUDIO.COM SUITE 203 SUITE 200 GREENVILLE, SC 29601 FLORENCE, SC 29503

COPYRIGHT 2019 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE
REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM EQUIP STUDIO



877.4.DEVITA • corp@devitainc.com

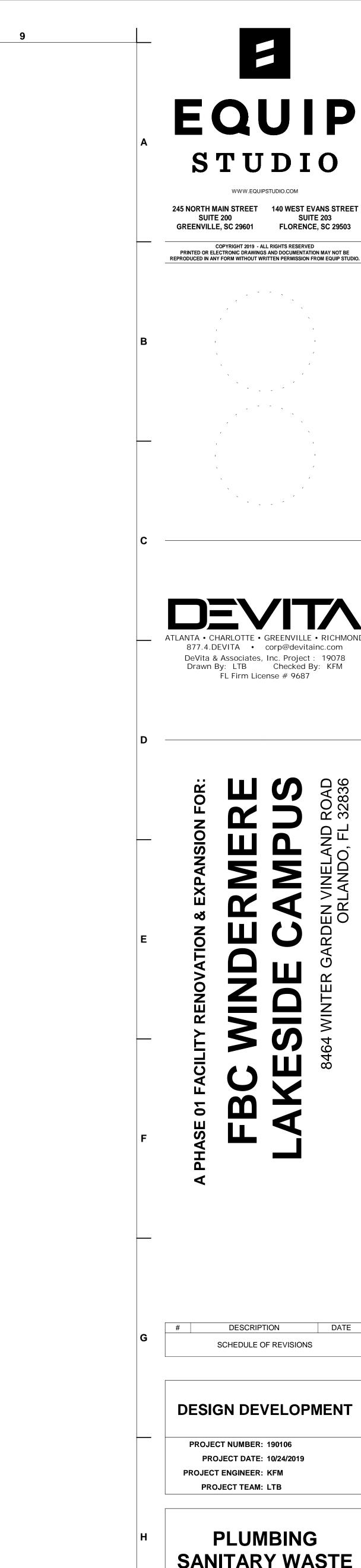
DeVita & Associates, Inc. Project: 19078 Drawn By: LTB Checked By: KFM FL Firm License # 9687

DESCRIPTION SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

PROJECT DATE: 10/24/2019 PROJECT ENGINEER: KFM PROJECT TEAM: LTB

PLUMBING SANITARY WASTE & VENT PLAN (WORSHIP)



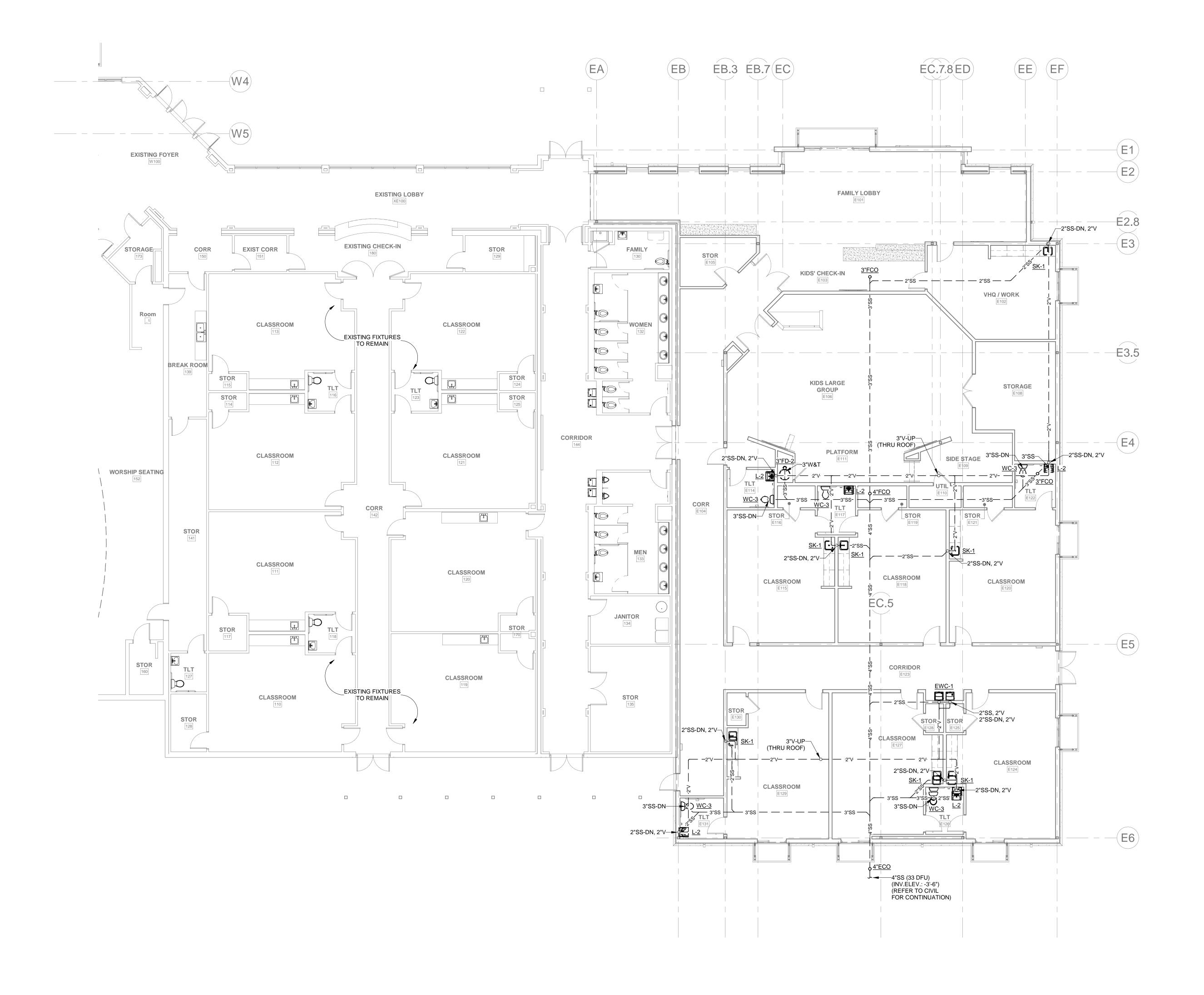
DESCRIPTION SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

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

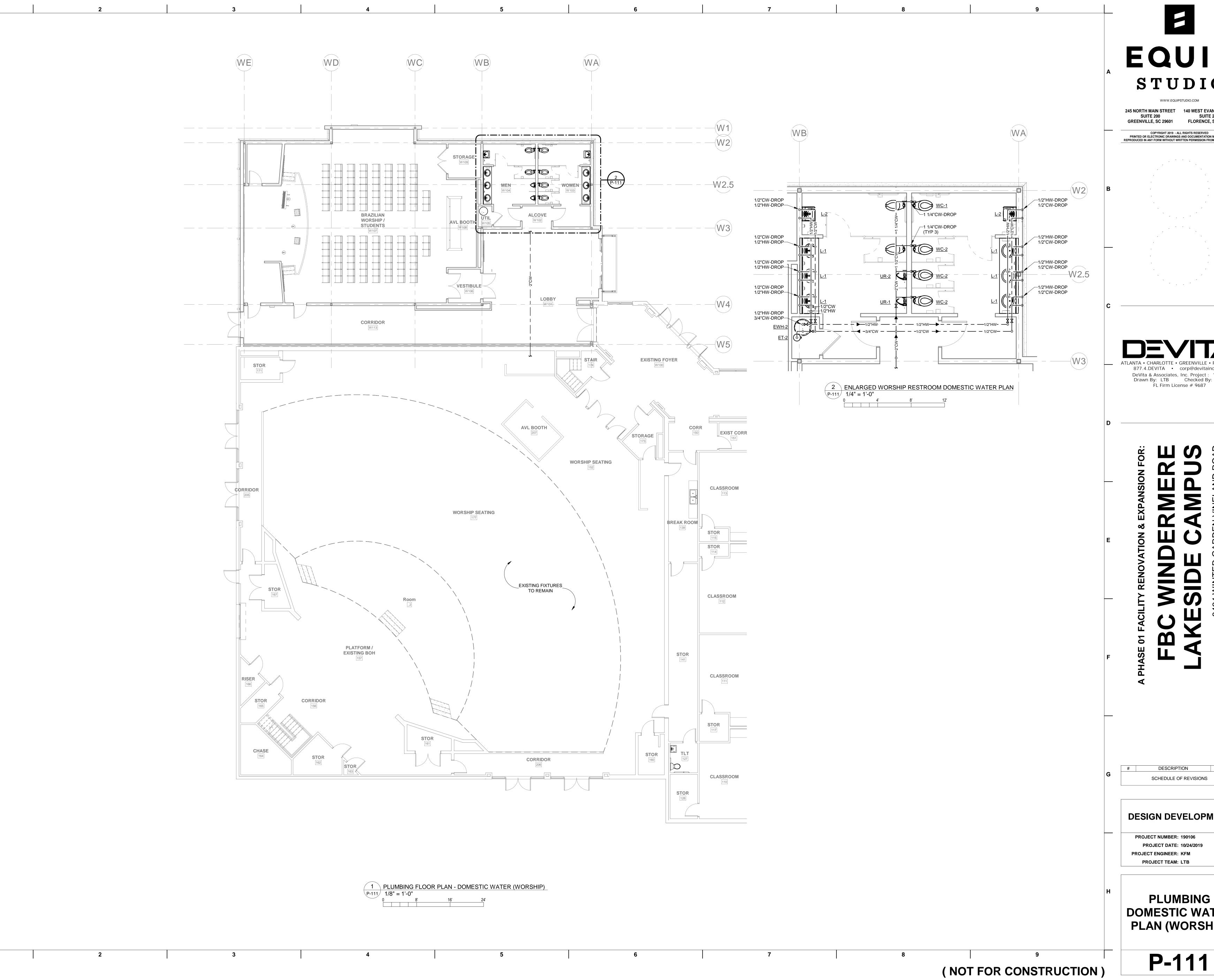
PLUMBING SANITARY WASTE & VENT PLAN (EDUCATION)

P-102



1 PLUMBING FLOOR PLAN - SANITARY WASTE & VENT (EDUCATION)
1/8" = 1'-0"

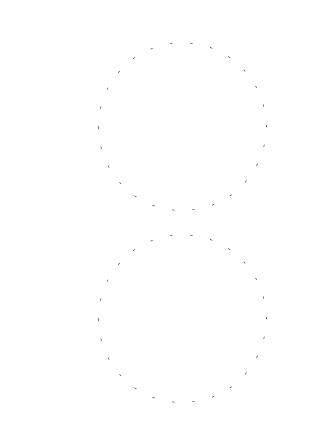
NOTICE: DO NOT SCALE DRAWINGS, USE DIMENSIONS SHOWN.



EQUIP STUDIO

SUITE 200 SUITE 203
GREENVILLE, SC 29601 FLORENCE, SC 29503

COPYRIGHT 2019 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE
REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM EQUIP STUDIO



877.4.DEVITA • corp@devitainc.com DeVita & Associates, Inc. Project: 19078
Drawn By: LTB Checked By: KFM
FL Firm License # 9687

SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

PROJECT DATE: 10/24/2019

PLUMBING DOMESTIC WATER PLAN (WORSHIP)



SUITE 203

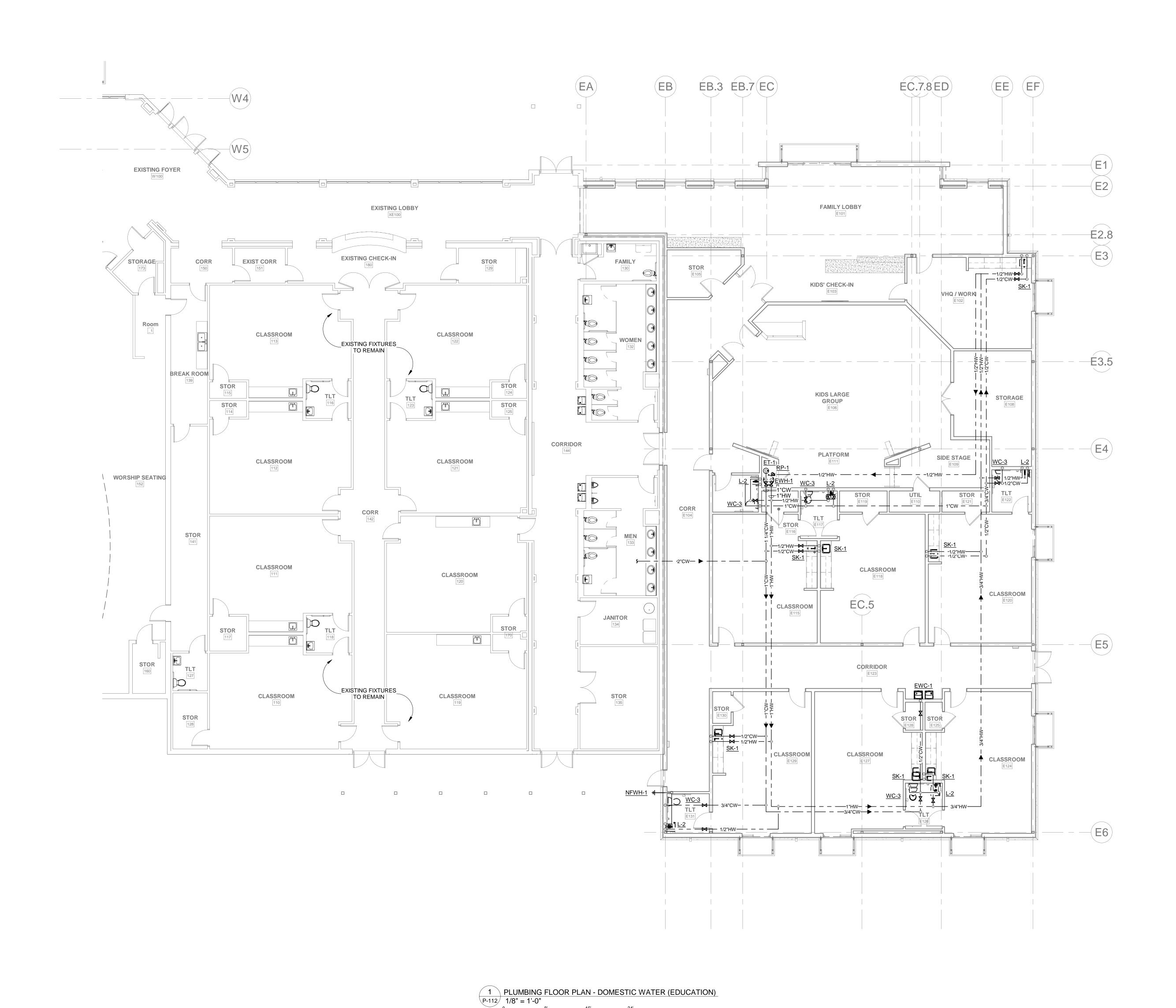
DESCRIPTION SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

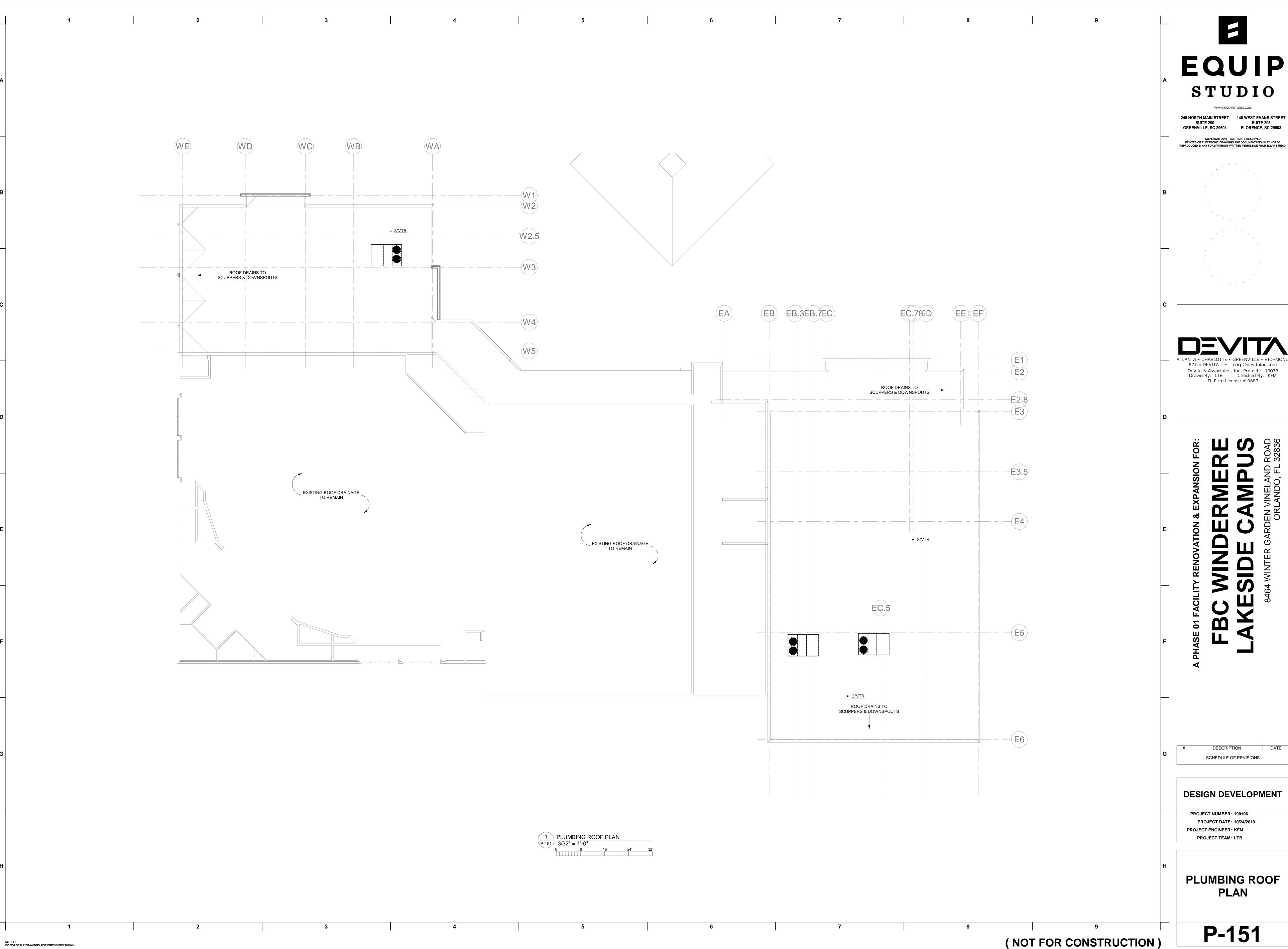
PROJECT DATE: 10/24/2019 PROJECT ENGINEER: KFM PROJECT TEAM: LTB

PLUMBING DOMESTIC WATER PLAN (EDUCATION)

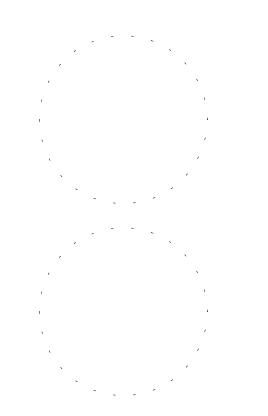
P-112



NOTICE: DO NOT SCALE DRAWINGS, USE DIMENSIONS SHOWN.

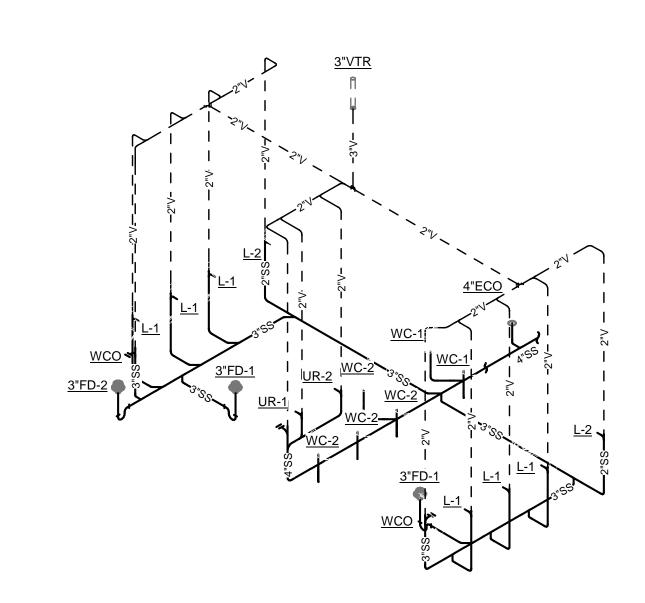


EQUIP STUDIO

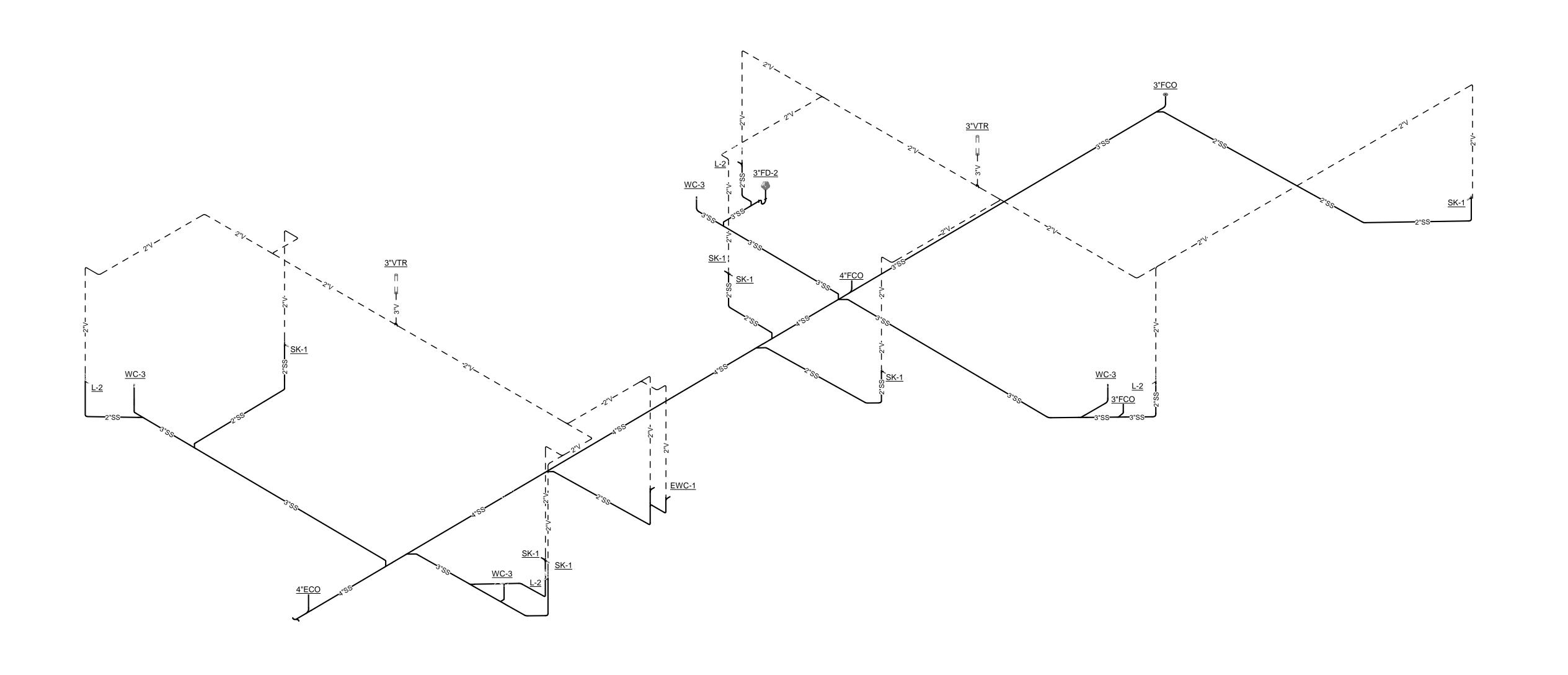


877.4.DEVITA • corp@devitainc.com

DESIGN DEVELOPMENT



1 SANITARY WASTE & VENT RISER DIAGRAM (WORSHIP)
P-161 NOT TO SCALE



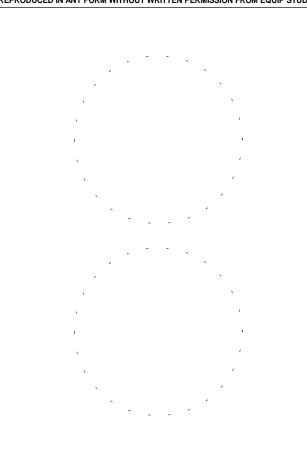
2 SANITARY WASTE & VENT RISER DIAGRAM (EDUCATION)
P-161 NOT TO SCALE

EQUIP STUDIO

WWW.EQUIPSTUDIO.COM

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

COPYRIGHT 2019 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE
REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM EQUIP STUDIO.



ATLANTA • CHARLOTTE • GREENVILLE • RICHMOND 877.4.DEVITA • corp@devitainc.com
DeVita & Associates, Inc. Project : 19078
Drawn By: LTB Checked By: KFM
FL Firm License # 9687

BC WINDERMERE
AKESIDE CAMPUS
8464 WINTER GARDEN VINELAND ROAD

DESCRIPTION DATE

SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

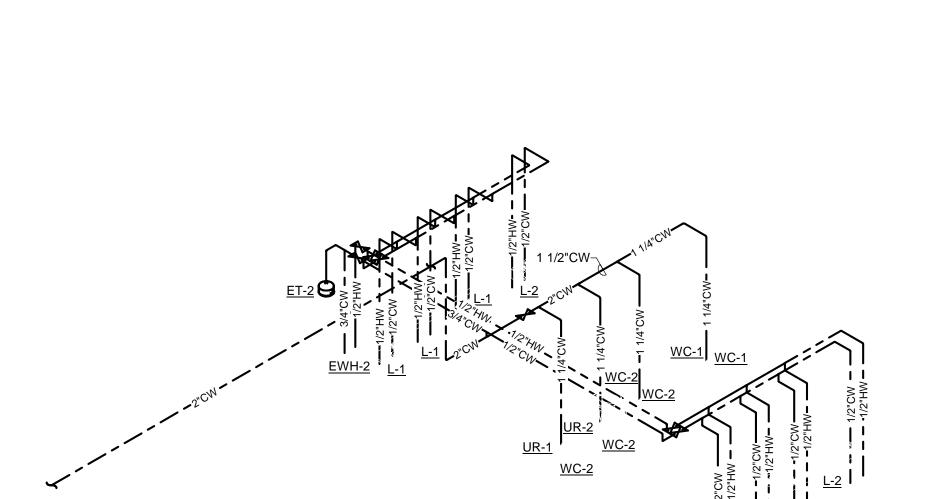
PROJECT NUMBER: 190106

PROJECT DATE: 10/24/2019

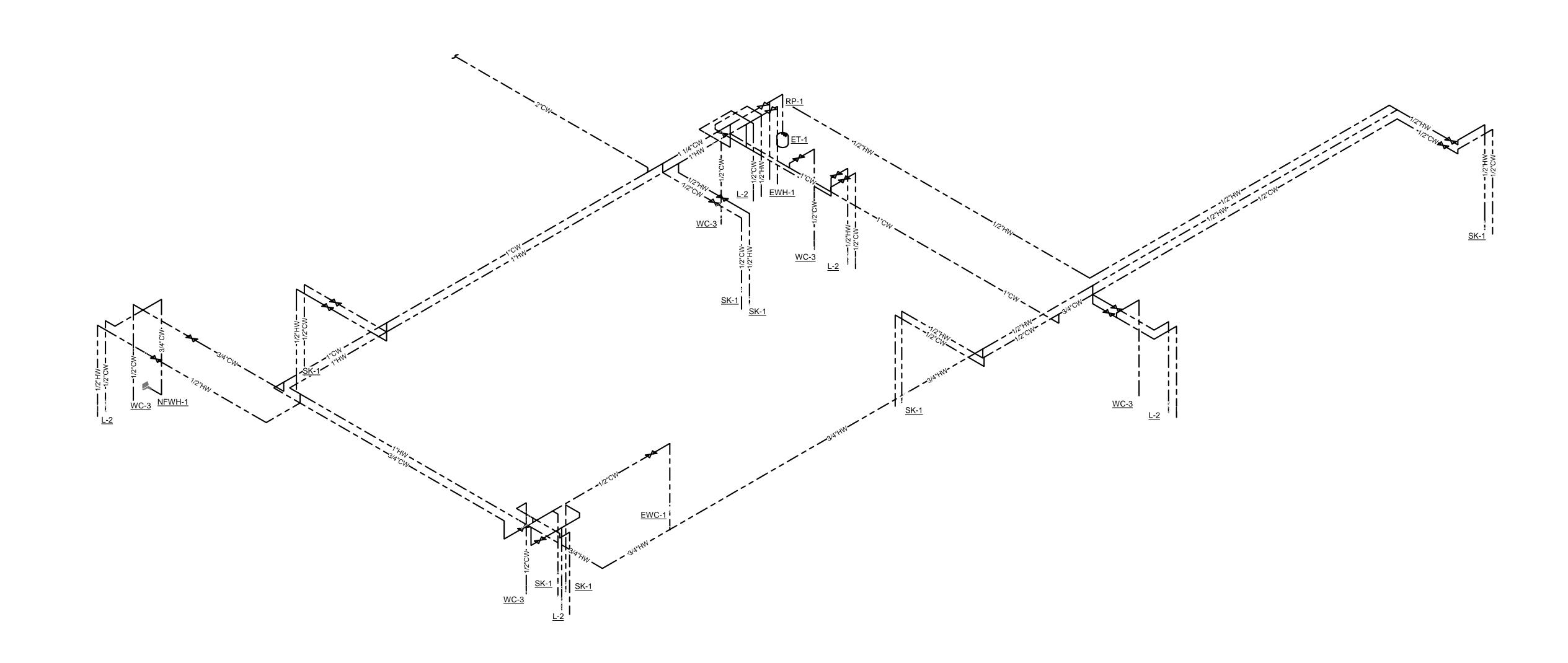
PROJECT ENGINEER: KFM

PROJECT TEAM: LTB

SANITARY WASTE & VENT RISER DIAGRAM



1 DOMESTIC WATER RISER DIAGRAM (WORSHIP)
P-162 NOT TO SCALE



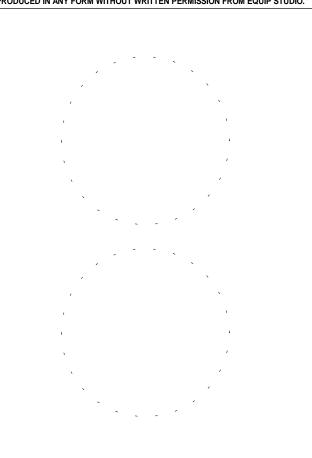
2 DOMESTIC WATER RISER DIAGRAM (EDUCATION)
P-162 NOT TO SCALE

EQUIP STUDIO

WWW.EQUIPSTUDIO.COM 245 NORTH MAIN STREET
SUITE 200
GREENVILLE, SC 29601

140 WEST EVANS STREET
SUITE 203
FLORENCE, SC 29503

COPYRIGHT 2019 - ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE
REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM EQUIP STUDIO.



877.4.DEVITA • corp@devitainc.com DeVita & Associates, Inc. Project: 19078
Drawn By: LTB Checked By: KFM
FL Firm License # 9687

SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

PROJECT NUMBER: 190106 PROJECT DATE: 10/24/2019 PROJECT ENGINEER: KFM PROJECT TEAM: LTB

DOMESTIC WATER RISER DIAGRAM