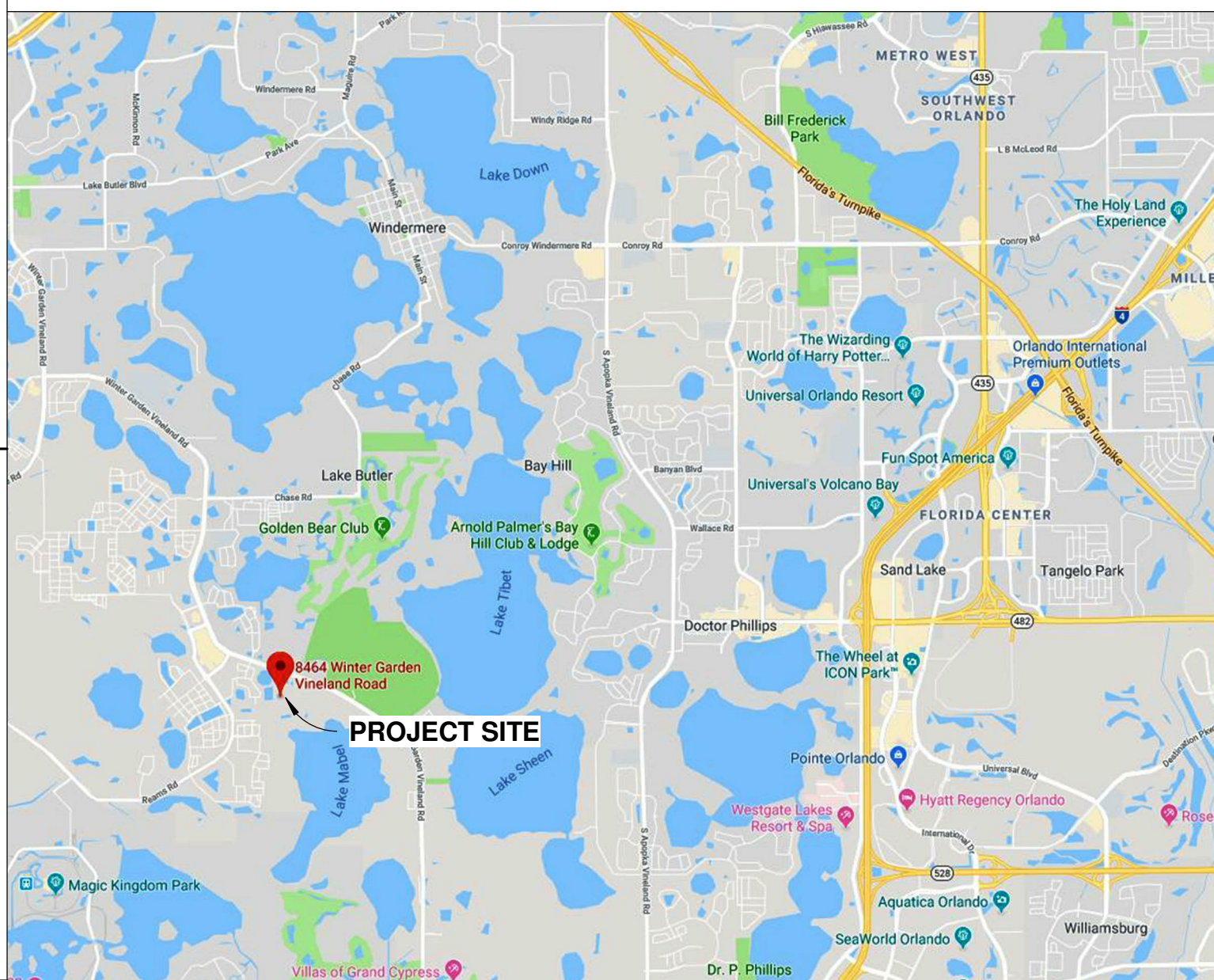
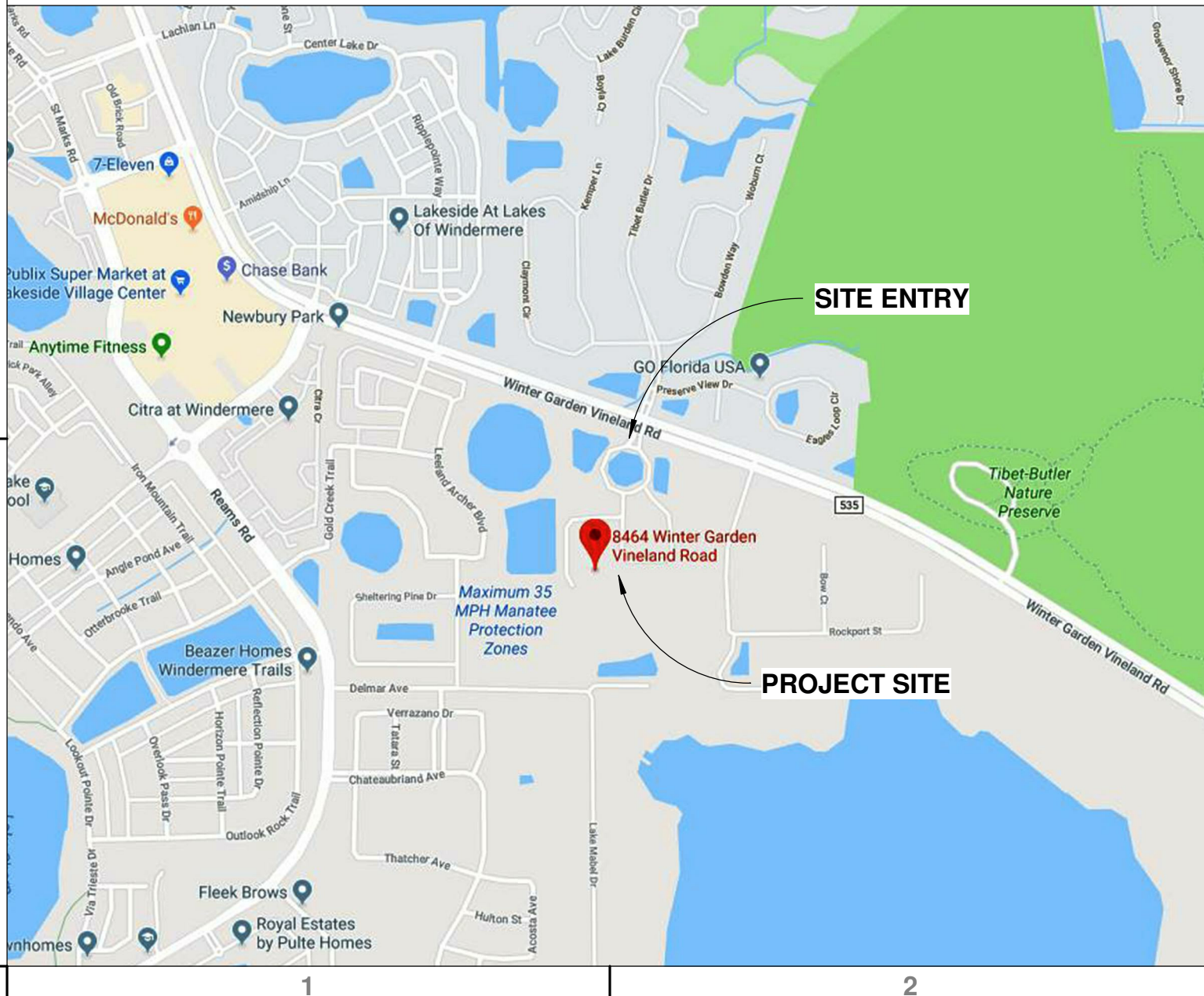


A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
**FBC WINDERMERE LAKESIDE CAMPUS**  
 NOTE: PERSPECTIVE RENDERINGS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED FOR REFERENCE DURING CONSTRUCTION.

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									
			MECHANICAL DEVITA & ASSOCIATES, INC. 33 VILLA ROAD, SUITE 300 GREENVILLE, SC 29615 TREY MORAN 864-232-6642 TMORAN@DEVITAINC.COM											
	CIVIL (UNDER SEPARATE CONTRACT WITH OWNER)													
					<table border="1"> <thead> <tr> <th>#</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>DESIGN DEVELOPMENT</td> <td>11/01/2019</td> </tr> <tr> <td>A</td> <td>SCHEMATIC DESIGN</td> <td>08/09/2019</td> </tr> </tbody> </table> SCHEDULE OF REVISIONS	#	DESCRIPTION	DATE	B	DESIGN DEVELOPMENT	11/01/2019	A	SCHEMATIC DESIGN	08/09/2019
#	DESCRIPTION	DATE												
B	DESIGN DEVELOPMENT	11/01/2019												
A	SCHEMATIC DESIGN	08/09/2019												
					<b>DESIGN DEVELOPMENT</b> PROJECT NUMBER: 190106 PROJECT DATE: 11/01/2019 PROJECT MANAGER: SLT PROJECT TEAM: RSK, HWB									
					<b>COVER SHEET</b> <b>G-001</b>									

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

NOTICE: DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN.

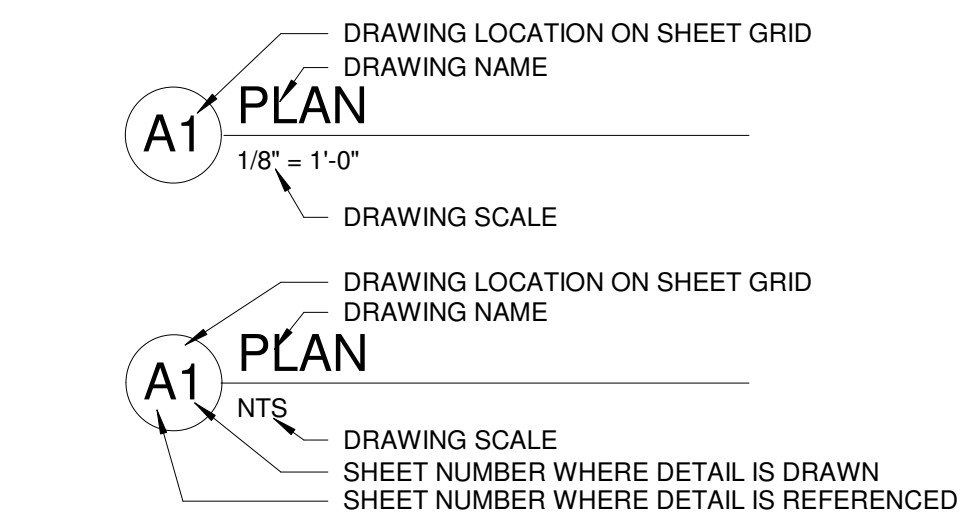


ABBREVIATIONS

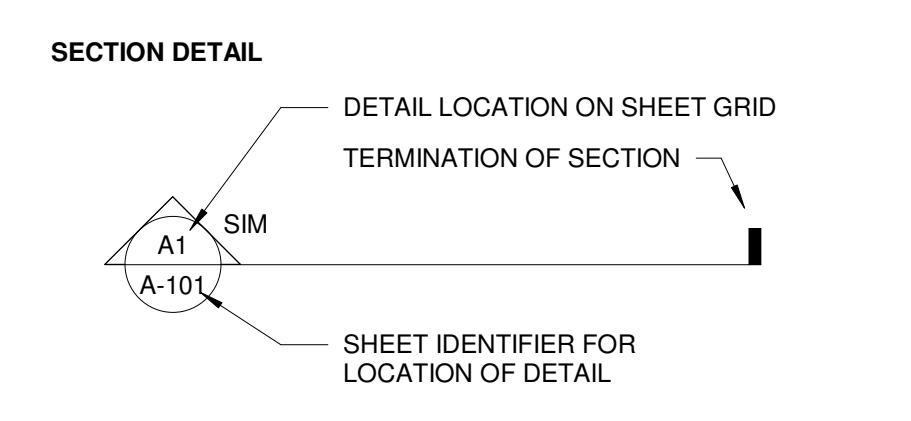
Table of abbreviations for architectural elements, including AIR CONDITIONING, ADMINISTRATION, ALTERNATE, ALUMINUM, etc.

GRAPHIC SYMBOL LEGEND

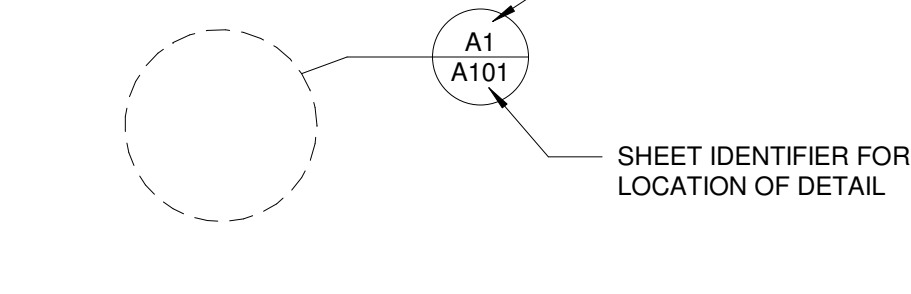
DRAWING TITLE SYMBOLS



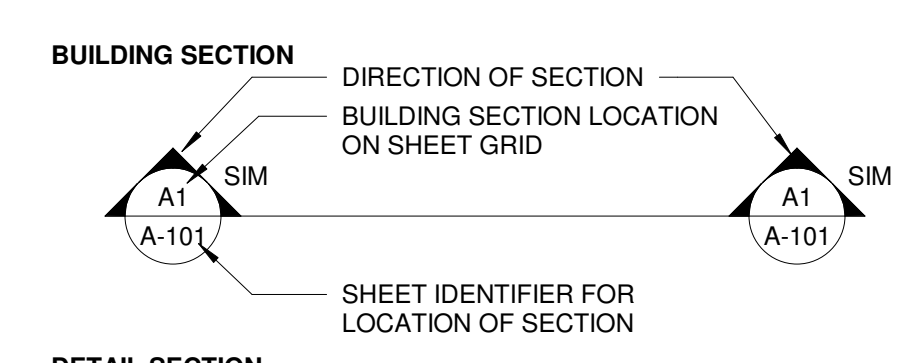
DETAIL SYMBOLS



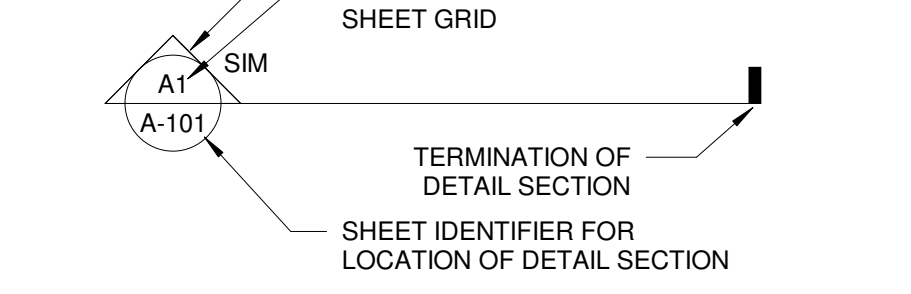
SECTION SYMBOLS



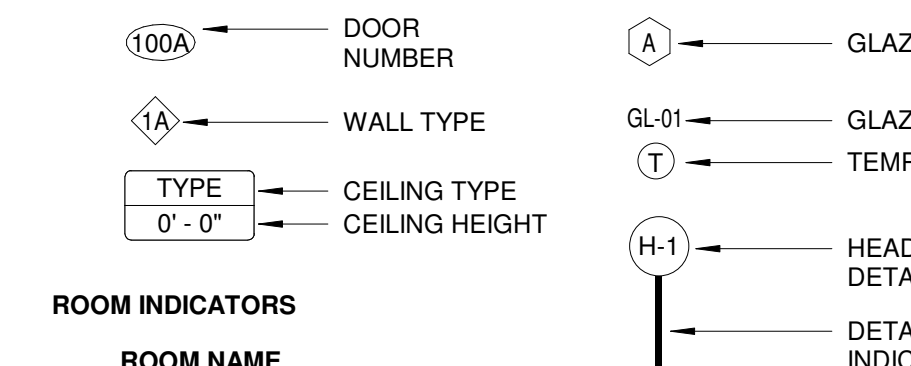
ELEVATION SYMBOLS



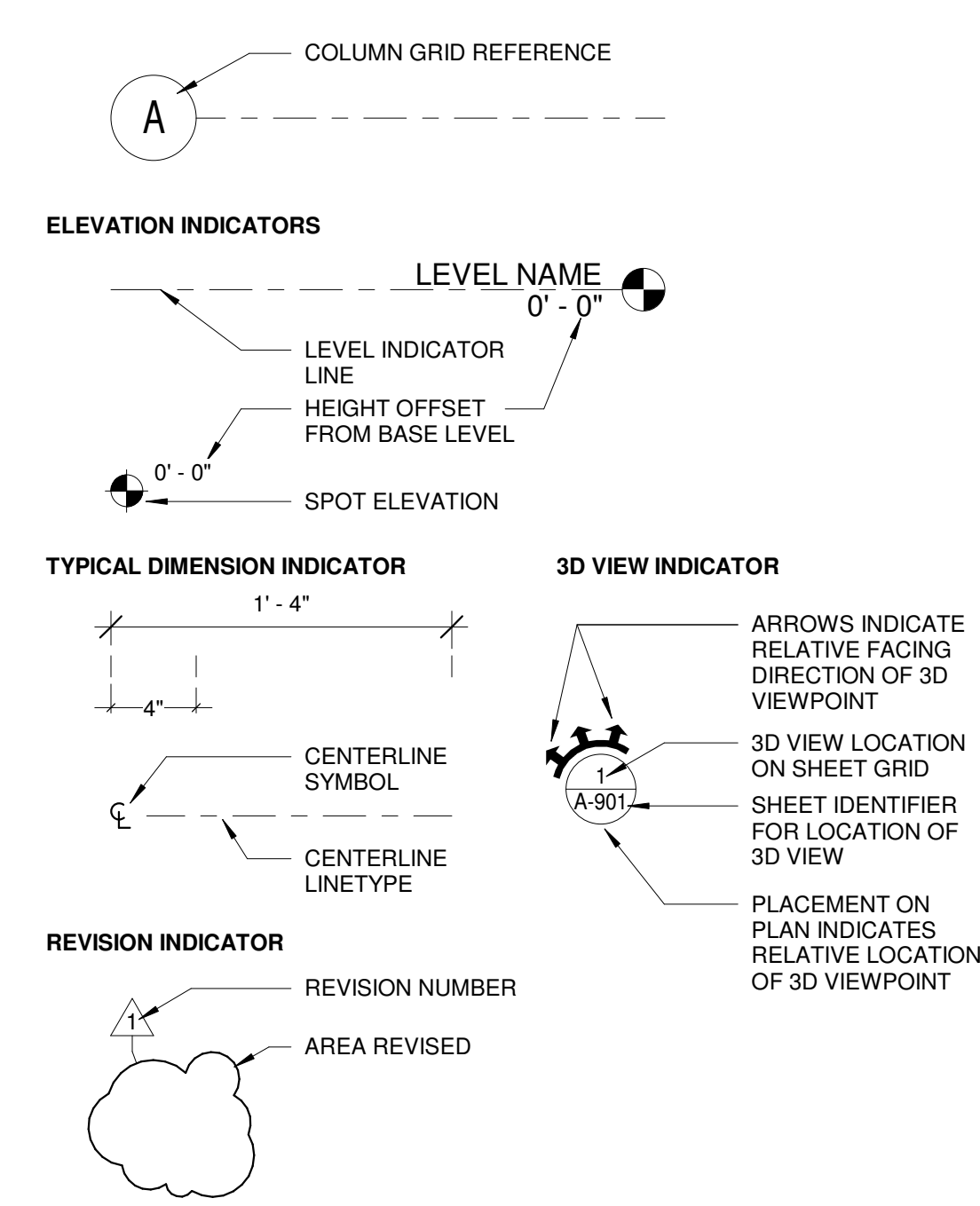
PLAN SYMBOLS



GLAZING SYMBOLS



GENERAL ANNOTATION SYMBOLS



CODE REVIEW

Codes in Use

2017 Florida Building Code - Building, 8th Edition; 2017 Florida Building Code - Building, 8th Edition - Chapter 27; 2017 Florida Building Code - Mechanical, 8th Edition; 2017 Florida Building Code - Plumbing, 8th Edition; 2017 Florida Building Code - Fuel Gas, 8th Edition; 2017 Florida Building Code - Accessibility, 8th Edition; 2017 Florida Building Code - Energy Conservation, 8th Edition; 2015 NFPA 101 Life Safety Code.

Project Description and Scope of Work

Scope of Work Description: Primary: Assembly Group A-3 (FBC 303.4), Place of Religious Worship; Educational Group E (FBC 305.2), Day Care Facilities; Storage (Reference).

FEMA Flood Zone Designation

Zone: 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.

FBC (Building) Chapter 5 - Height and Area Modifications

508.2.2 Mixed Occupancy, one-story buildings; 508.3 Nonseparated occupancies; 508.3.2 Allowable building area and height.

Table showing Building Area, Building Height, and Total Building area with calculations for sprinklered and non-sprinklered areas.

\*1 FBC Equation 5-1; \*2 FBC Equation 5-5; \*3 FBC Equation 5-4. Calculations for building height based on area and occupancy.

FBC (Building) Chapter 6 - Types of Construction

Table 601 Fire-Resistance Requirements for Building Elements (hours). Columns include Building Element, Type I, Type II, Type III, Type IV, and Type V.

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.)

Table 602 Fire-Resistance Requirements for Exterior Walls Based On Separation Distance. Columns include Fire Separation Distance, Type of Construction, Group F-1, M, S-1g, and Group A, B, E, F-2, I, R, S-2a, Ub.

a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601; b. 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 the wall is located.

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

Table 705.8 Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening Protection (partial table).

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.

Table 706.4 Fire Wall Fire-Resistance Rating; Table 706.5 Horizontal Continuity; Table 706.6 Vertical Continuity.

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

Table 716.5 Opening Fire Protection Assemblies, Ratings and Markings. Columns include Type of Assembly, Required Wall Assembly Rating, Door Vision Panel Size, Fire Rated Glazing, Minimum Sidelight Transom Assembly Rating, and Fire-Rated Glazing Marking.

f. For places of religious worship, wood used for ornamental purposes, trusses, purling 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: Class B; Enclosed Stairways: Class A; General Assembly Areas with < 300 occupants: Class C; All Other Enclosed Spaces: Class A.

Fire Protection Systems (LSC Chapter 12)

Project is located in: Fire District; NFPA 13 Automatic Sprinkler System: Provided throughout Building.

LSC 12.3.4 Detection, Alarm, and Communications Systems; LSC 12.3.4.1 Exception 2: Initiation; LSC 12.3.5.1 Extinguishing Requirements.

Means of Egress (LSC and FBC references noted below)

Occupancy Calculation: Assembly (A-3) Total Occupants: 1,900; Common Path of Egress Travel: 20' for any number of occupants; Maximum Travel Distance: 250' w/ sprinklers; Minimum Required Corridor Width: 36" for corridors serving > 50 occupants.

FBC (Accessibility)

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.

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. Columns include Occupants, Fixture, Required (Male/Female), and Provided (Male/Female/Unisex).

\* Occupant load based on Life Safety Plans; \*\* 403.1.2 Family or assisted-use toilet and bath fixtures; \*\*\* 419.2 Substitution for water closets.

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

Table C402.1.3 Building Envelope Requirements - Opaque Assemblies. Columns include Description, Min. Req., and Provided.

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

MATERIAL LEGEND

Table of material legends for PLAN AND SECTION, ELEVATION, and 3D VIEW, including Earth, Concrete, Brick, Metal Panel, Steel, Iron, Aluminum, Wood Blocking, Plywood, Stone Wool Insulation, Rigid Insulation, etc.

EQUIP STUDIO logo and address: 245 NORTH MAIN STREET SUITE 200 GREENVILLE, SC 29601; 140 WEST EVANS STREET SUITE 200 FLORENCE, SC 29503.

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

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

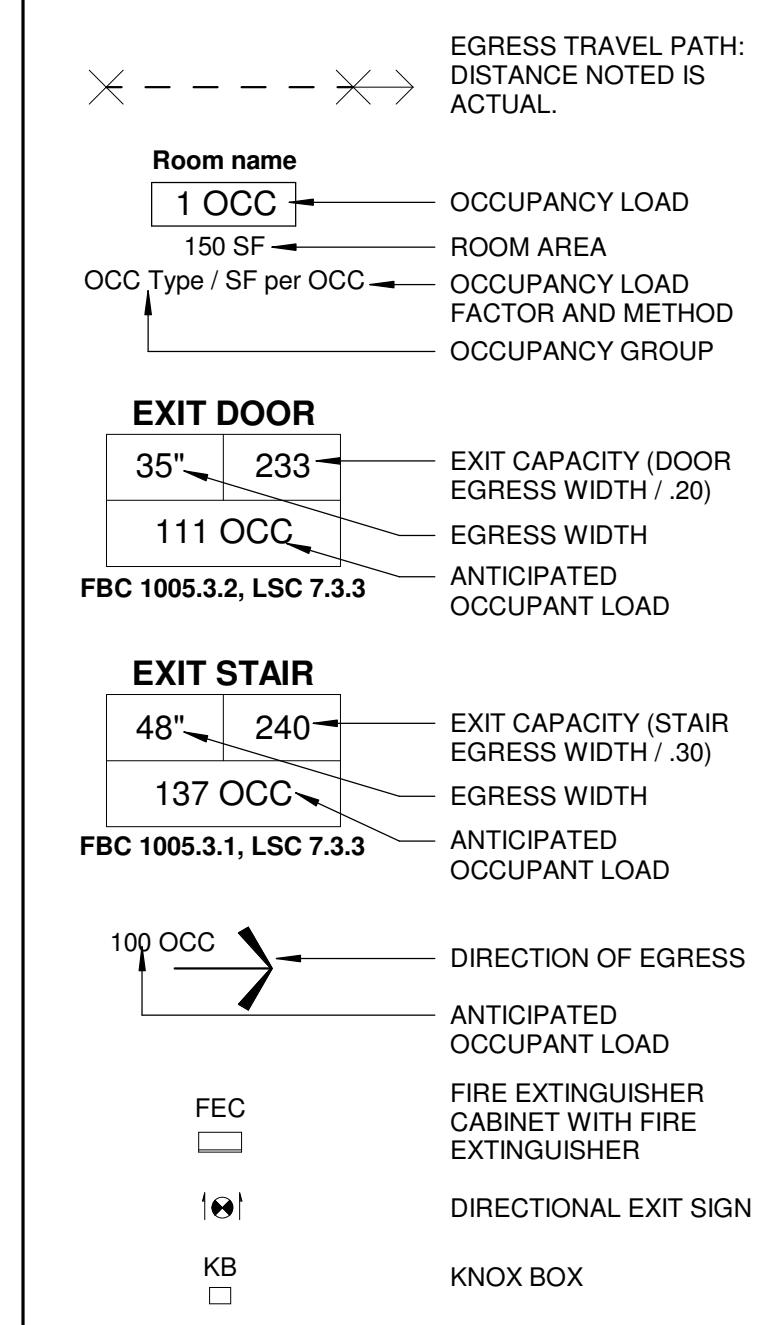
PROJECT STANDARDS, LEGENDS AND CODE REVIEW G-002



### 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.

### LIFE SAFETY LEGEND



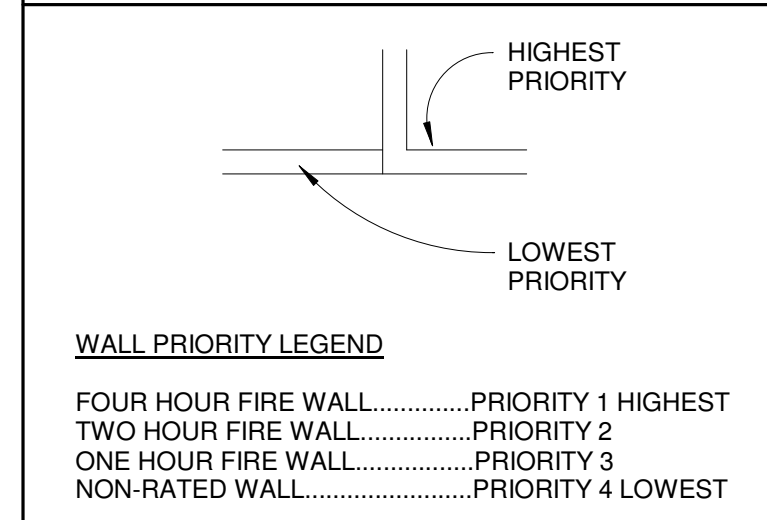
**LIFE SAFETY NOTES**  
 1. PROVIDE FBC 2017 REQUIRED SIGNAGE WITH ACCOMPANYING TACTILE TEXT FOR APPROPRIATE CONDITIONS, SUCH AS IDENTIFICATION OF ELECTRICAL ROOMS, THE FIRE RISER ROOM, FIRE DOORS, RESTROOMS, AND MAXIMUM OCCUPANCY LOADS FOR ASSEMBLY SPACES.

### PARTITION LEGEND

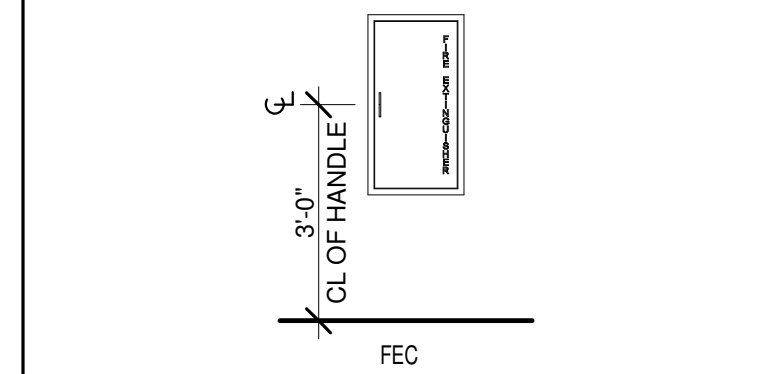
**NOTES**  
 • CONSTRUCT ALL WALLS AS LABELED ON FLOOR PLAN(S)  
 • SEE A-500 SERIES SHEETS FOR WALL TYPES  
 • PARTITION TYPE SUFFIX NUMBER (1) TYPICALLY INDICATES BATT INSULATION (R2) FOR SOUND  
 • PARTITION TYPE SUFFIX NUMBER (ID) TYPICALLY INDICATES WALL EXTENDING TO DECK (SEE TOP OF WALL DETAIL LEGEND)  
**FLOOR PLAN GRAPHIC LEGEND OF INTERIOR WALLS**  
 • PLAN GRAPHICS FOR VISUAL REFERENCE ONLY  
 • SEE WALL TYPES FOR COMPLETE WALL DESIGN

- NON-RATED PARTITION (TO CEILING)
- NON-RATED PARTITION (TO DECK, BATT)
- NON-RATED PARTITION (LOW WALL)
- NON-RATED PARTITION (BATT INSUL)
- RATED PARTITION (1 HR)
- RATED PARTITION (2 HRS)
- RATED PARTITION (3 HRS)
- RATED PARTITION (4 HRS)
- EXISTING PARTITION
- DEMOLISHED PARTITION

### WALL PRIORITY



### FEC DETAILS



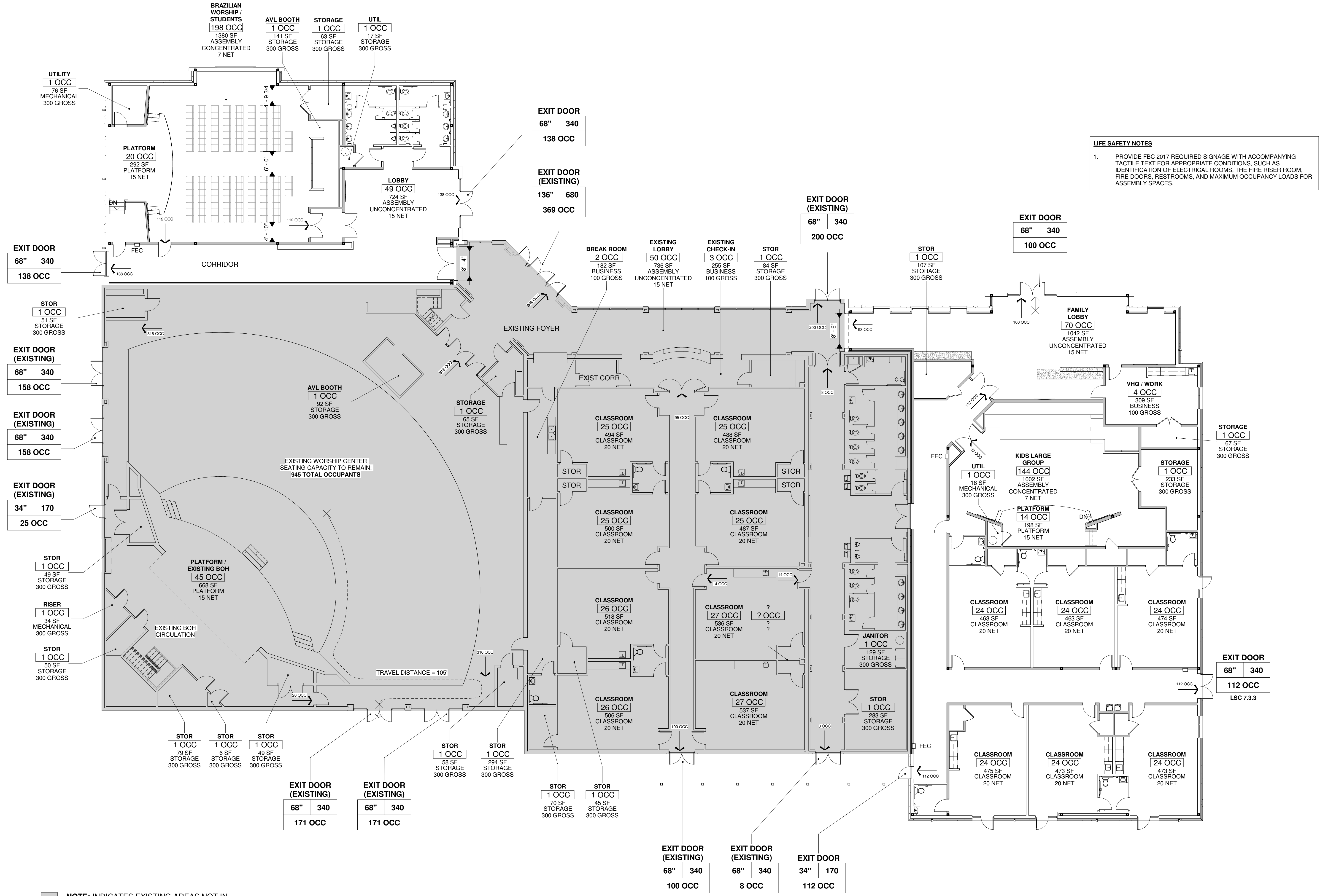
**A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:**  
**FBC WINDERMERE LAKESIDE CAMPUS**  
 8464 WINTER GARDEN VINELAND ROAD  
 ORLANDO, FL 32836

#	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

**LIFE SAFETY PLAN - FIRST FLOOR**

**G-101**



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

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

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





PLUMBING FIXTURE SCHEDULE									
FIXTURE				REMARKS					
MARK	FIXTURE	MANUFACTURER	MODEL	CW	HW	S / W	V		
WC-1	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	
WC-2	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	
WC-3	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	
UR-1	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	
UR-2	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	
L-1	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	
L-2	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	
SK-1	SINK (DROP-IN, STAINLESS STEEL, SINGLE BOWL)	ELKAY	LRAD202265	3/8"	3/8"	2"	2"	MANUAL FAUCET;	
WC-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									
				REMARKS					
MARK		MANUFACTURER	MODEL	CW	HW	SS / W	V		
TMV-1	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	
ET-1	EXPANSION TANK	AMTROL	ST-12C-DD	3/4"	-	-	-	-	
ET-1	EXPANSION TANK	AMTROL	ST-5C-DD	3/4"	-	-	-	-	
WHA-X	WATER HAMMER ARRESTOR	PPP	SC SERIES (SYSTEM RATED)	X	X	-	-	SIZE PER SELECTED UNIT	
RP-1	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									
				REMARKS					
MARK	FIXTURE	MANUFACTURER	MODEL	SS / W	V	ST	OST		
FD-1	FLOOR DRAIN (FINISHED SPACES)	ZURN	Z415B	X	X	-	-	W/TG-1	
FD-2	FLOOR DRAIN (MECHANICAL ROOM)	ZURN	Z507	X	X	-	-	W/TG-1	
FD-3	FLOOR DRAIN (OPEN HUB)	ZURN	Z4151	X	X	-	-	W/TG-1	
FCO-1	FLOOR CLEANOUT	ZURN	Z1400-K	X	-	-	-	-	
WCO-1	WALL CLEANOUT	ZURN	Z1446	X	-	-	-	-	
ECO-1	EXTERIOR CLEANOUT	ZURN	Z1474	X	-	-	-	-	
TG-1	TRAP GUARD	PROVENT	TG SERIES	X	-	-	-	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
EWH-1	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
-	-	-	-	-	-	-	-	-	-

NOTES:

- EQUIPMENT AND ALL ASSOCIATED WATER SIDE PIPING, VALVES, AND ACCESSORIES SHALL BE PROVIDED BY PLUMBING CONTRACTOR
- EQUIPMENT SHALL MEET ASHRAE 90.1 STANDARDS FOR THERMAL EFFICIENCY AND STANDBY LOSS
- PROVIDE FACTORY INSTALLED ANODE ROD(S) TO PREVENT ELECTROLYTIC CORROSION OF TANK
- PROVIDE FACTORY INSTALLED TEMPERATURE AND PRESSURE SAFETY RELIEF VALVE (T&P VALVE)
- 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.
- DISCONNECT SWITCH TO BE PROVIDED BY ELECTRICAL CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
- REFER TO WATER HEATER DETAIL FOR ADDITIONAL INSTALLATION INFORMATION.

SANITARY WASTE CALCULATION (WORSHIP)				
MARK	FIXTURE / EQUIPMENT	QUANTITY	WASTE	
			TOTAL DFU (PER TYPE)	TOTAL DFU (PER FIXTURE)
WC	WATER CLOSET	6	4.0	24
UR	URINAL	2	2.0	4
L	LAVATORY	8	1.0	8
3FD	3" FLOOR DRAIN	3	0	0
-	-	-	-	-
TOTAL			-	36.0
MAXIMUM WASTE DEMAND AT 36 DFU = 4" SANITARY WASTE				

SANITARY WASTE CALCULATION (EDUCATION)				
MARK	FIXTURE / EQUIPMENT	QUANTITY	WASTE	
			TOTAL DFU (PER TYPE)	TOTAL DFU (PER FIXTURE)
WC	WATER CLOSET (FLUSH TANK)	5	4.0	20
L	LAVATORY	5	1.0	5
SK	SINK	7	2.0	14
EWV	ELECTRIC WATER COOLER	2	0.5	1
3FD	3" FLOOR DRAIN	1	0	0
-	-	-	-	-
TOTAL			-	40
MAXIMUM WASTE DEMAND AT 40 DFU = 4" SANITARY WASTE				

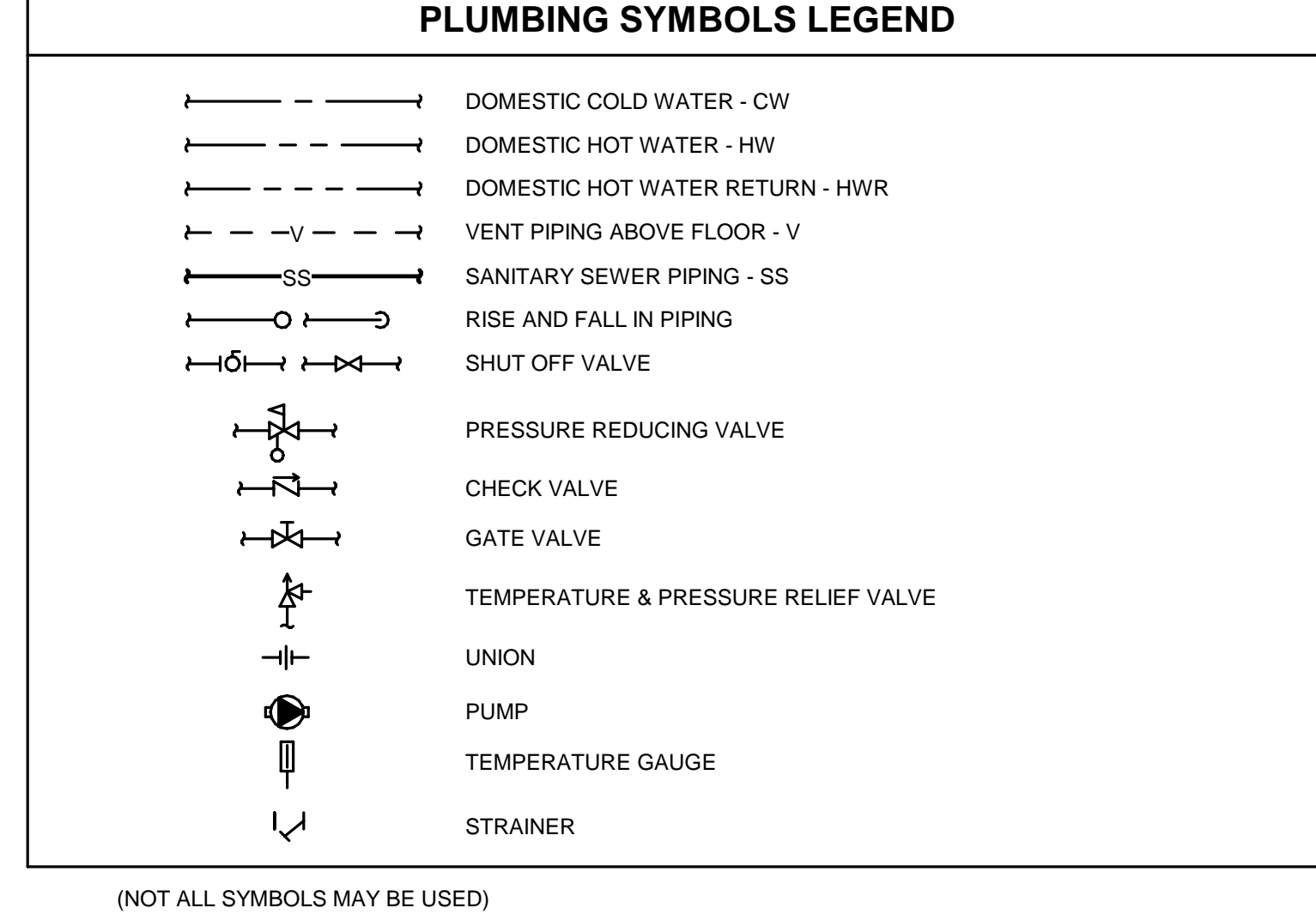
DOMESTIC WATER SUPPLY CALCULATION (WORSHIP)					
MARK	FIXTURE / EQUIPMENT	QUANTITY	WATER		
			CWFU (PER FIXTURE)	HWFU (PER FIXTURE)	TOTAL WSFU (PER FIXTURE)
WC	WATER CLOSET (FLUSH VALVE)	6	10.0	-	60
UR	URINAL	2	5.0	-	10
L	LAVATORY	8	1.5	1.5	16
-	-	-	-	-	-
TOTAL			-	-	86
MAXIMUM WATER DEMAND AT 86.0 WSFU (FLUSH VALVE) = 63.1 GPM = 2" WATER SUPPLY					

DOMESTIC WATER SUPPLY CALCULATION (EDUCATION)					
MARK	FIXTURE / EQUIPMENT	QUANTITY	WATER		
			CWFU (PER FIXTURE)	HWFU (PER FIXTURE)	TOTAL WSFU (PER FIXTURE)
WC	WATER CLOSET (FLUSH TANK)	5	2.2	-	11
L	LAVATORY	5	0.5	0.5	3.5
SK	SINK	7	1.0	1.0	9.8
EWV	ELECTRIC WATER COOLER	2	0.25	-	0.5
NFWH	NON-FREEZE WALL HYDRANT	1	2.0	-	2.0
-	-	-	-	-	-
TOTAL			-	-	26.8
MAXIMUM WATER DEMAND AT 26.8 WSFU = 39.4 GPM = 1 1/2" WATER SUPPLY					

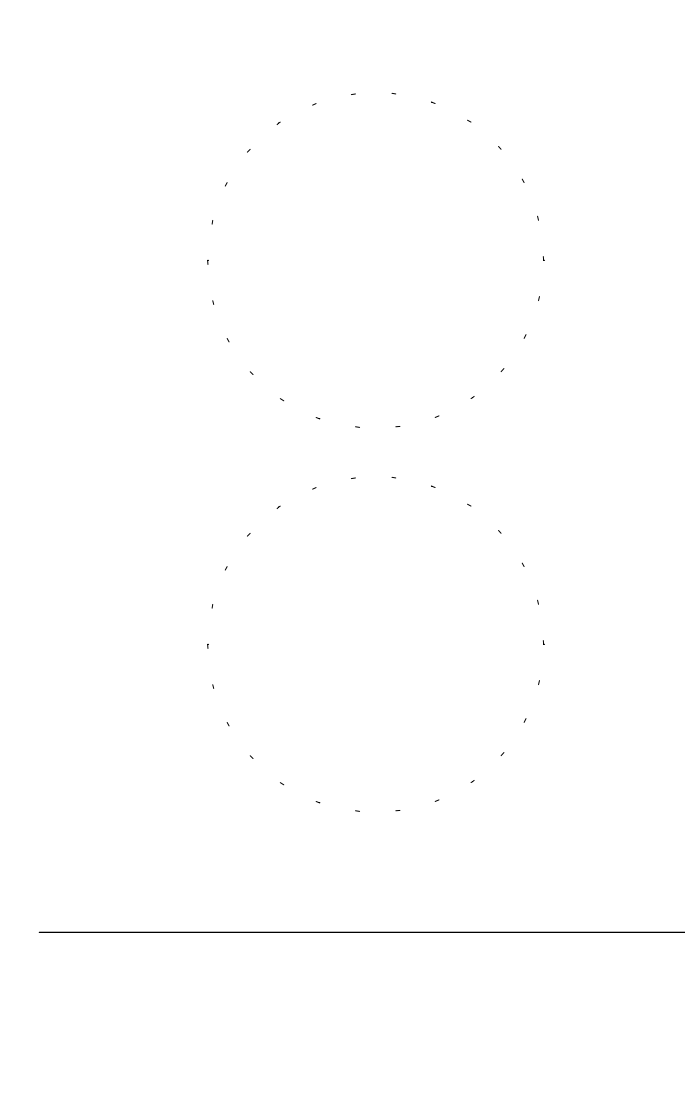
- ### PLUMBING SPECIFICATIONS
- CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES AND HEALTH REGULATIONS HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL FEES AND PERMITS REQUIRED.
  - CONTRACTOR SHALL GUARANTEE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP, EQUIPMENT AND MATERIAL FURNISHED ON PROJECT FOR A TERM OF ONE YEAR.
  - FROM DATE OF FINAL ACCEPTANCE, PROVIDE EXTENDED WARRANTIES 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.
  - 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.
  - 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 UL AND NEMA APPROVED.
  - MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" EITHER SIDE OF PANEL TO STRUCTURE. ALL PIPING SHALL BE ROUTED AROUND THIS AREA.
  - CONTRACTOR SHALL FURNISH ACCESS PANELS, TO BE INSTALLED BY THE GENERAL CONTRACTOR, AS REQUIRED FOR PLUMBING INSTALLATIONS.
  - ALL SANITARY VENT ROOF PENETRATIONS SHALL BE A MINIMUM DISTANCE OF 10'-0" AWAY FROM ALL ROOFTOP MECHANICAL EQUIPMENT OR OTHER AIR INTAKE DEVICES.
  - 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 ELECTROLYTIC ACTION.
  - 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.
  - 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.
  - 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.
  - 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.
  - 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.
  - 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.
  - ALL WATER PIPING SHOWN ROUTED IN EXTERIOR WALLS SHALL BE LOCATED INSIDE THE BUILDING INSULATION AND FINISHED WALL.
  - 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.
  - 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 RATED ASSEMBLIES.
  - 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 LARGER.
  - 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.
  - WET VENTING SHALL BE IN ACCORDANCE WITH 2015 SOUTH CAROLINA PLUMBING CODE SECTION 912

### PLUMBING ABBREVIATIONS LEGEND

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
EWV	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
HB	HOSE BIBB	WH	WALL HYDRANT
HD	HUB DRAIN	WHA	WATER HAMMER ARRESTOR
HW	DOMESTIC HOT WATER		



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



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

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: KFM  
PROJECT TEAM: LTB

**PLUMBING  
LEGEND AND  
NOTES**

**P-001**

( NOT FOR CONSTRUCTION )

NOTICE: DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN.

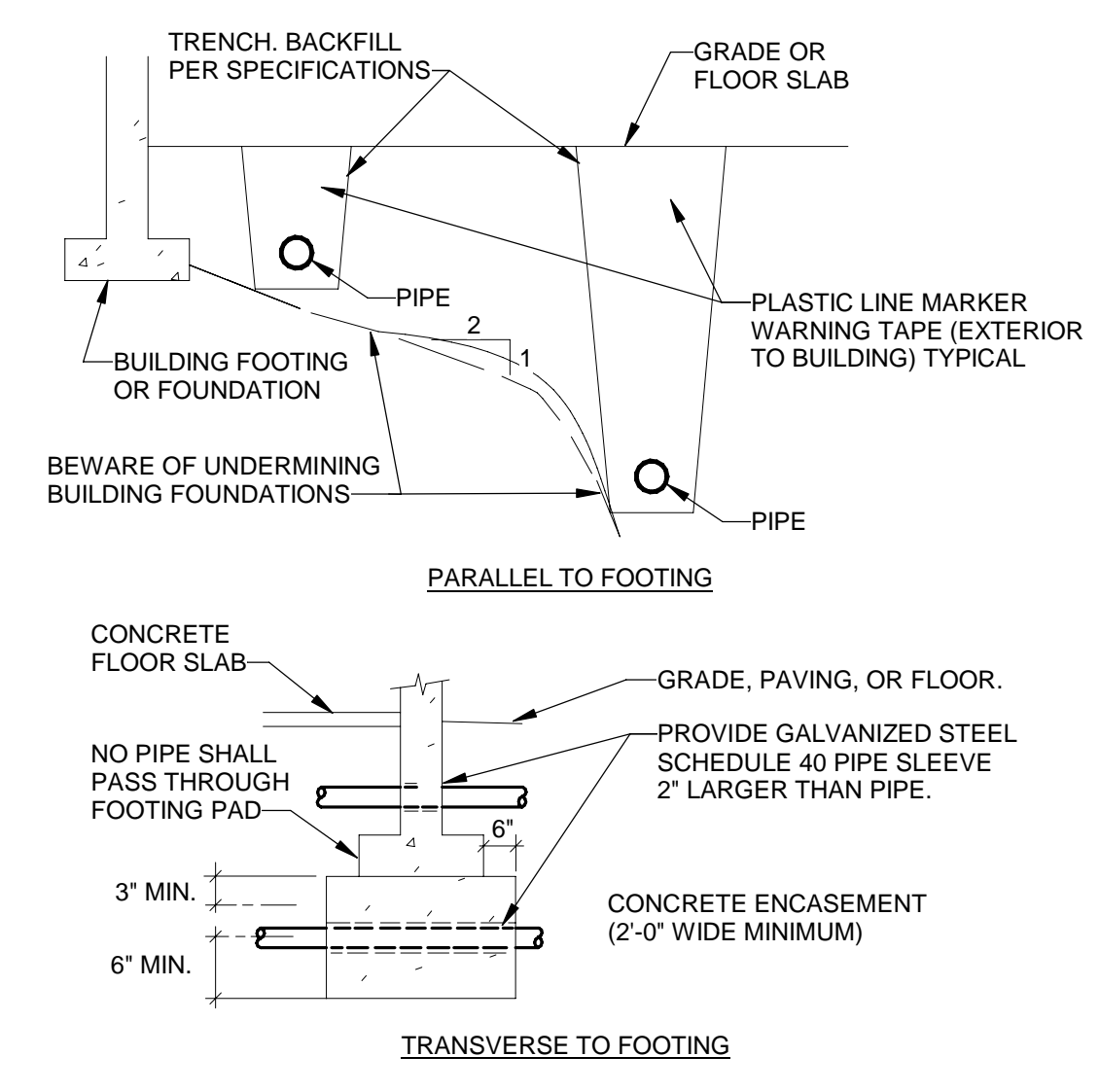


#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

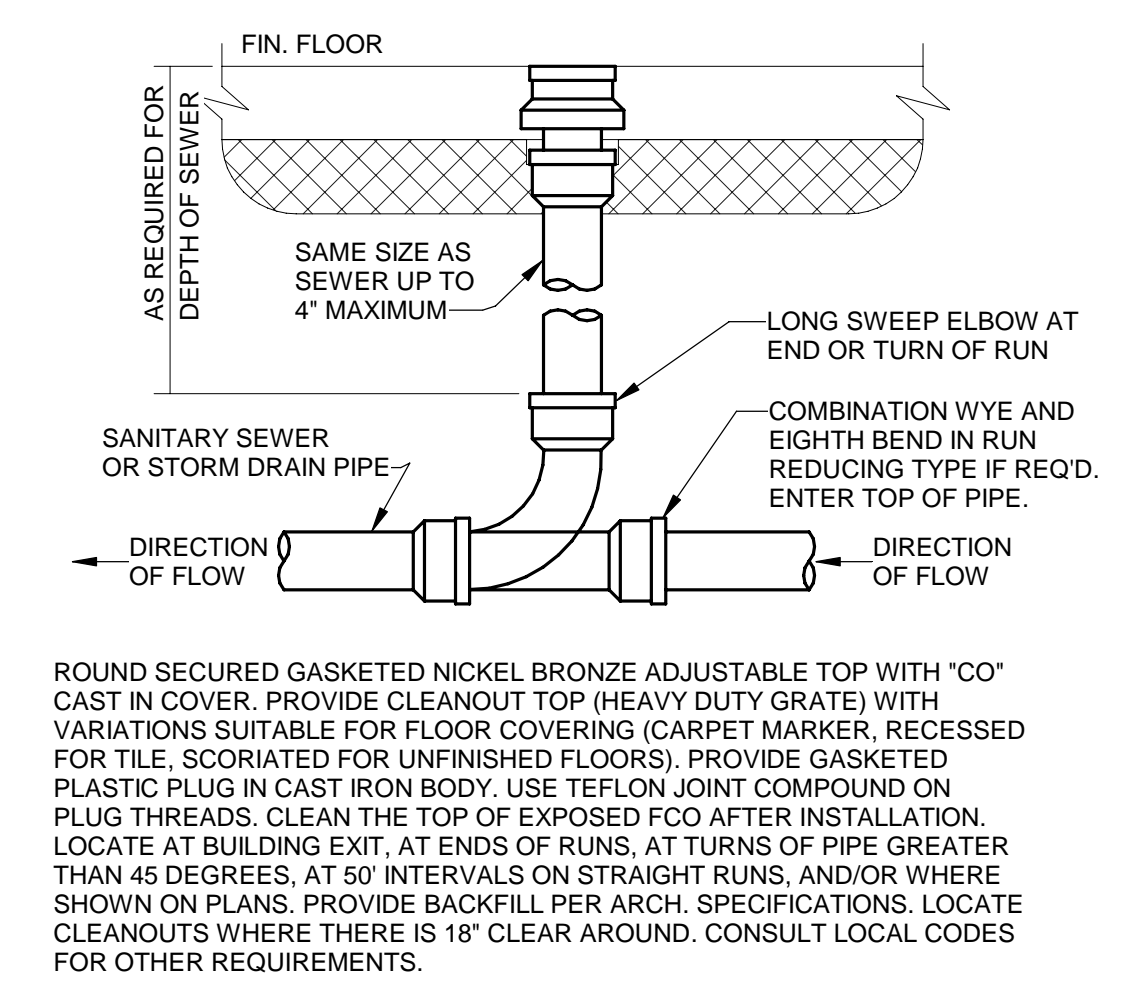
**DESIGN DEVELOPMENT**

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PROJECT TEAM: LTB

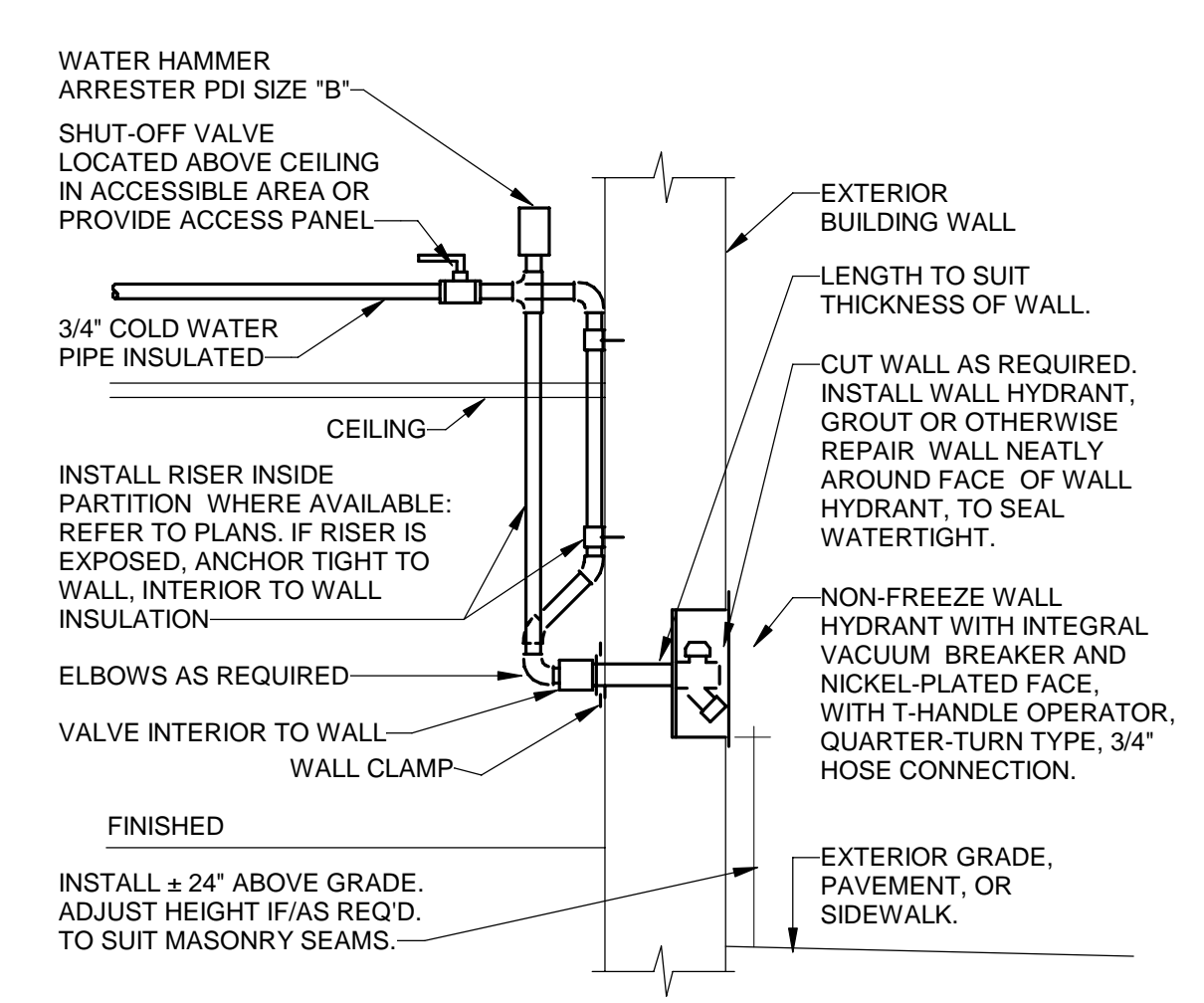
**PLUMBING DETAILS**



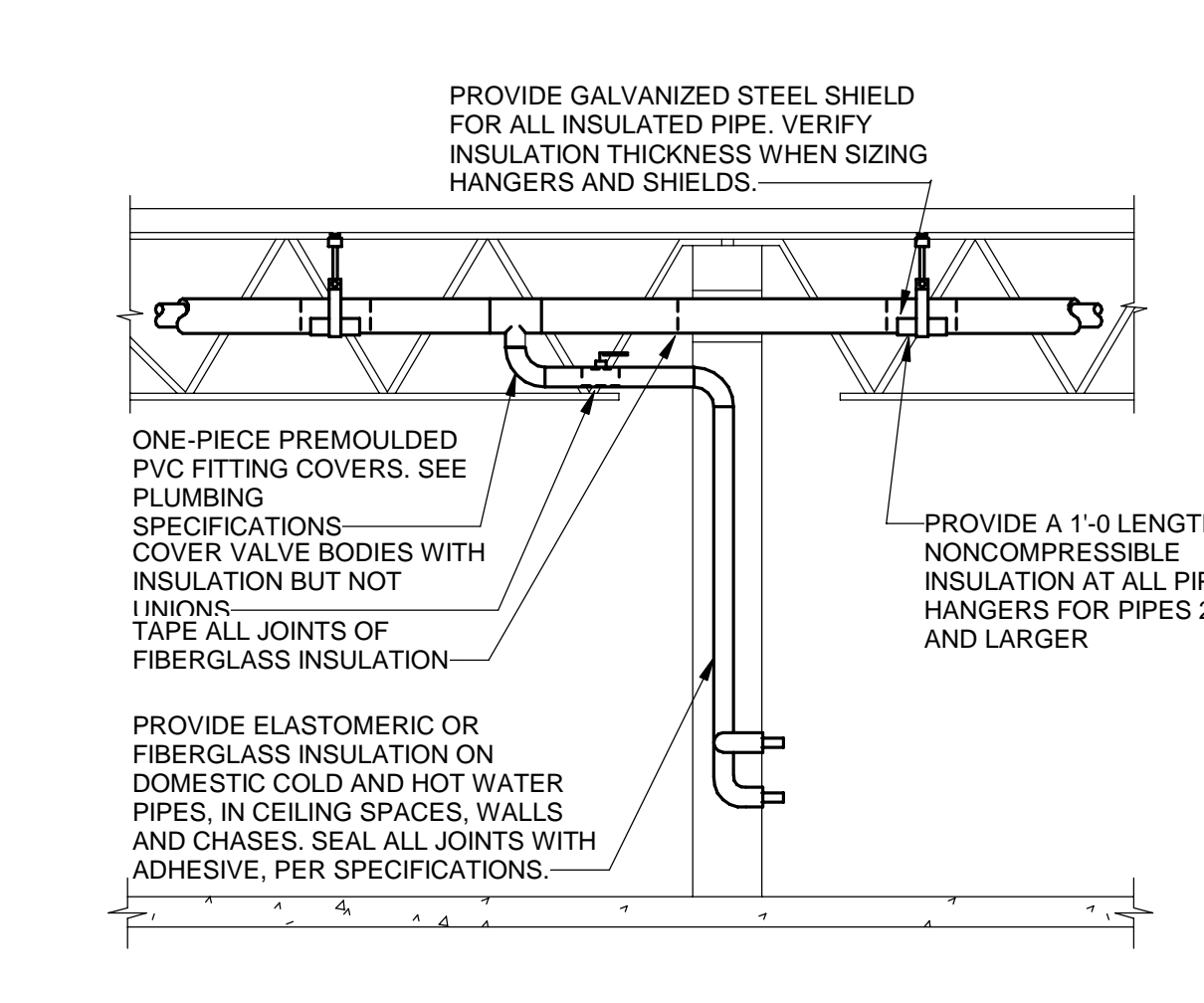
**4 PIPE AND TRENCH LOCATION**  
NOT TO SCALE



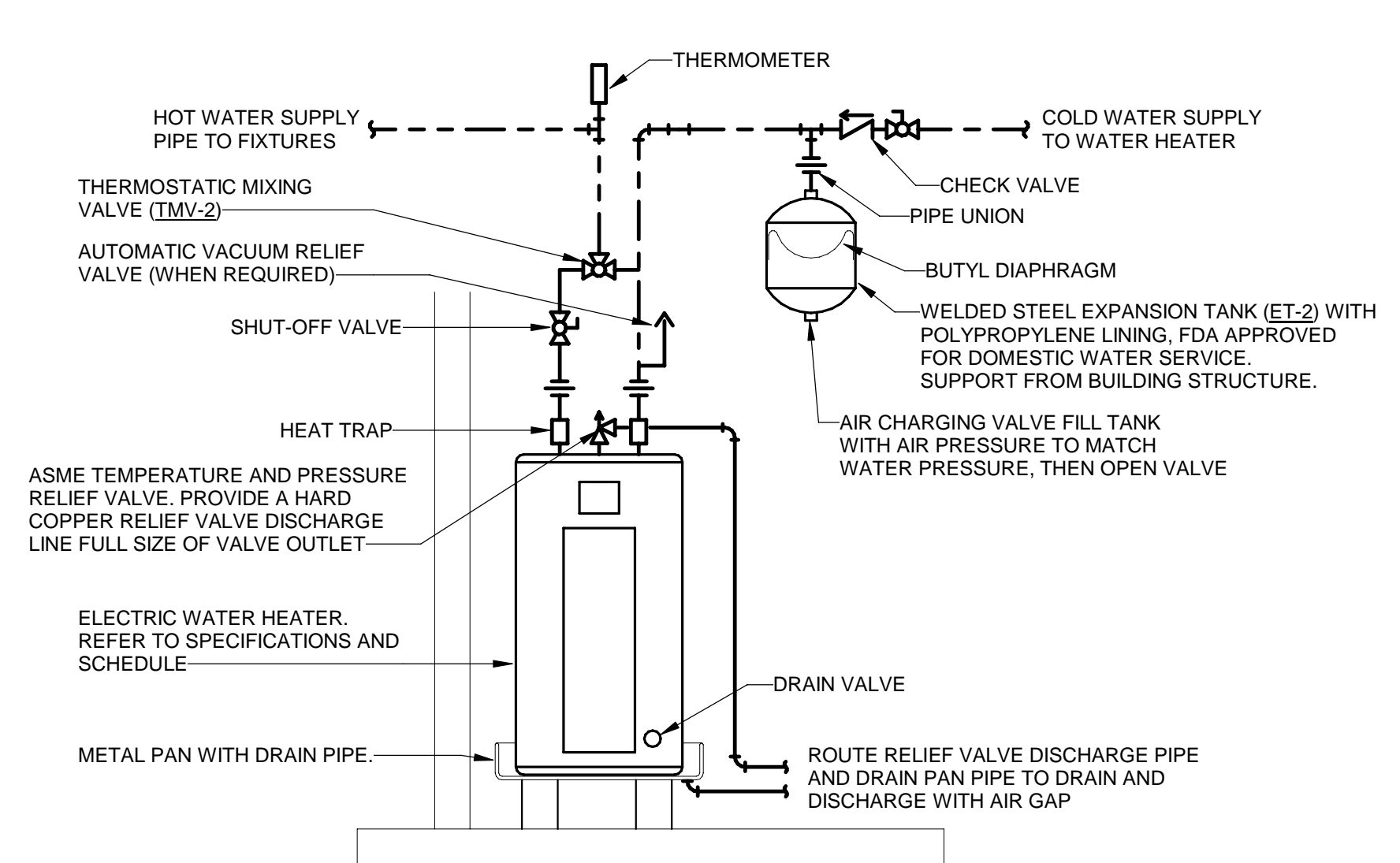
**3 FLOOR CLEANOUT SLAB ON GRADE - FCO**  
NOT TO SCALE



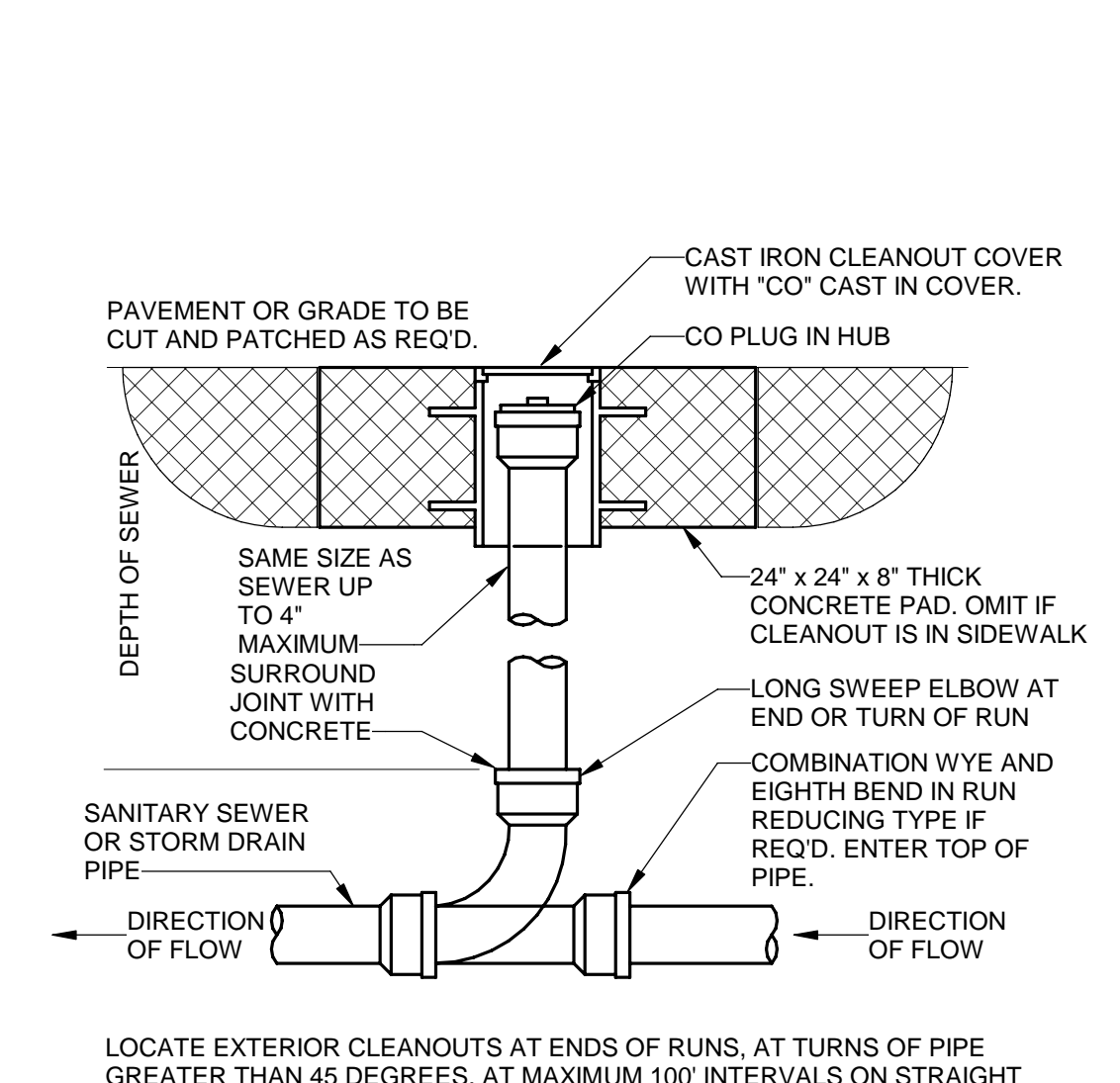
**2 NON-FREEZE WALL HYDRANT - (NFWH-1)**  
NOT TO SCALE



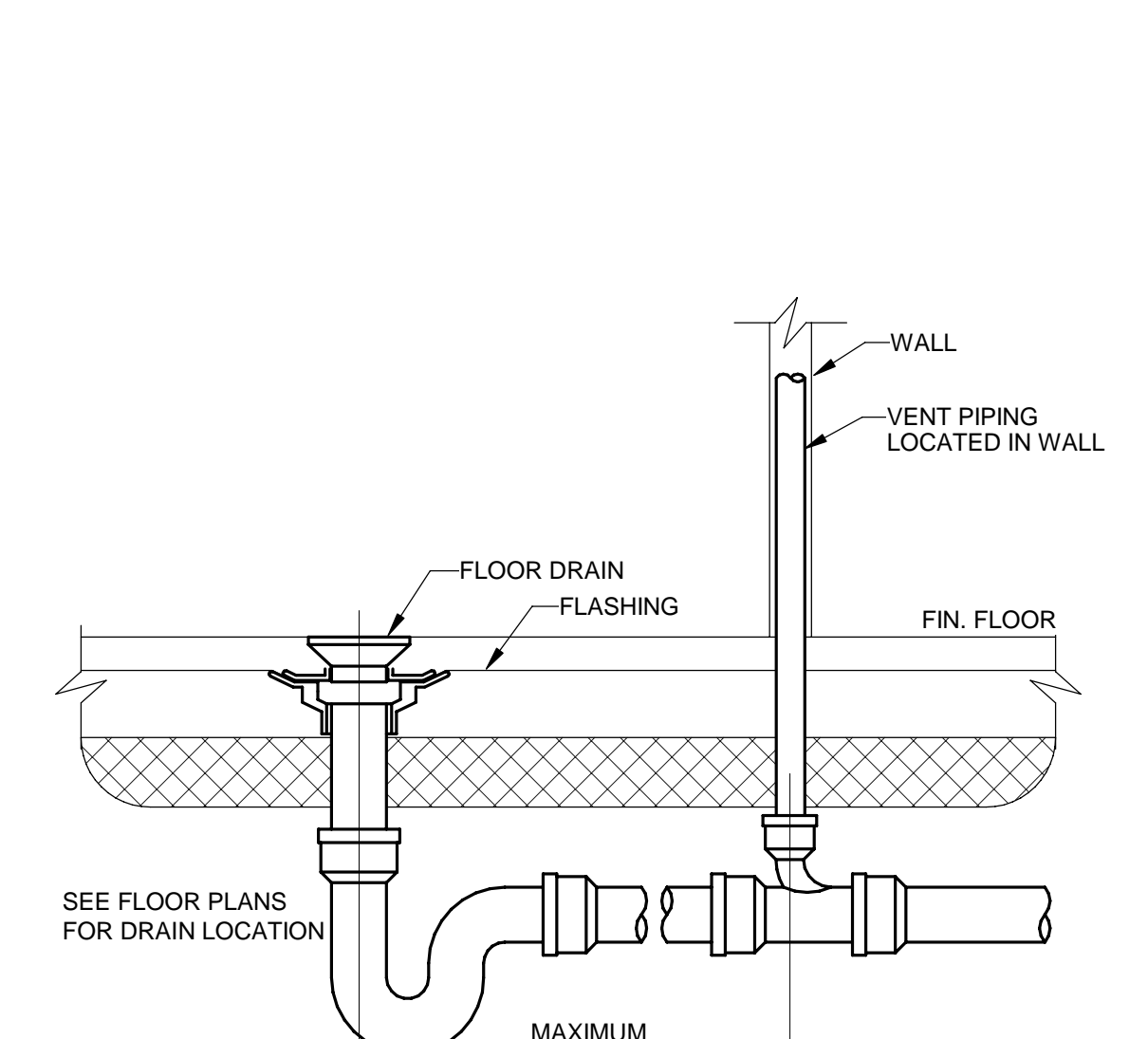
**1 PIPE INSULATION**  
NOT TO SCALE



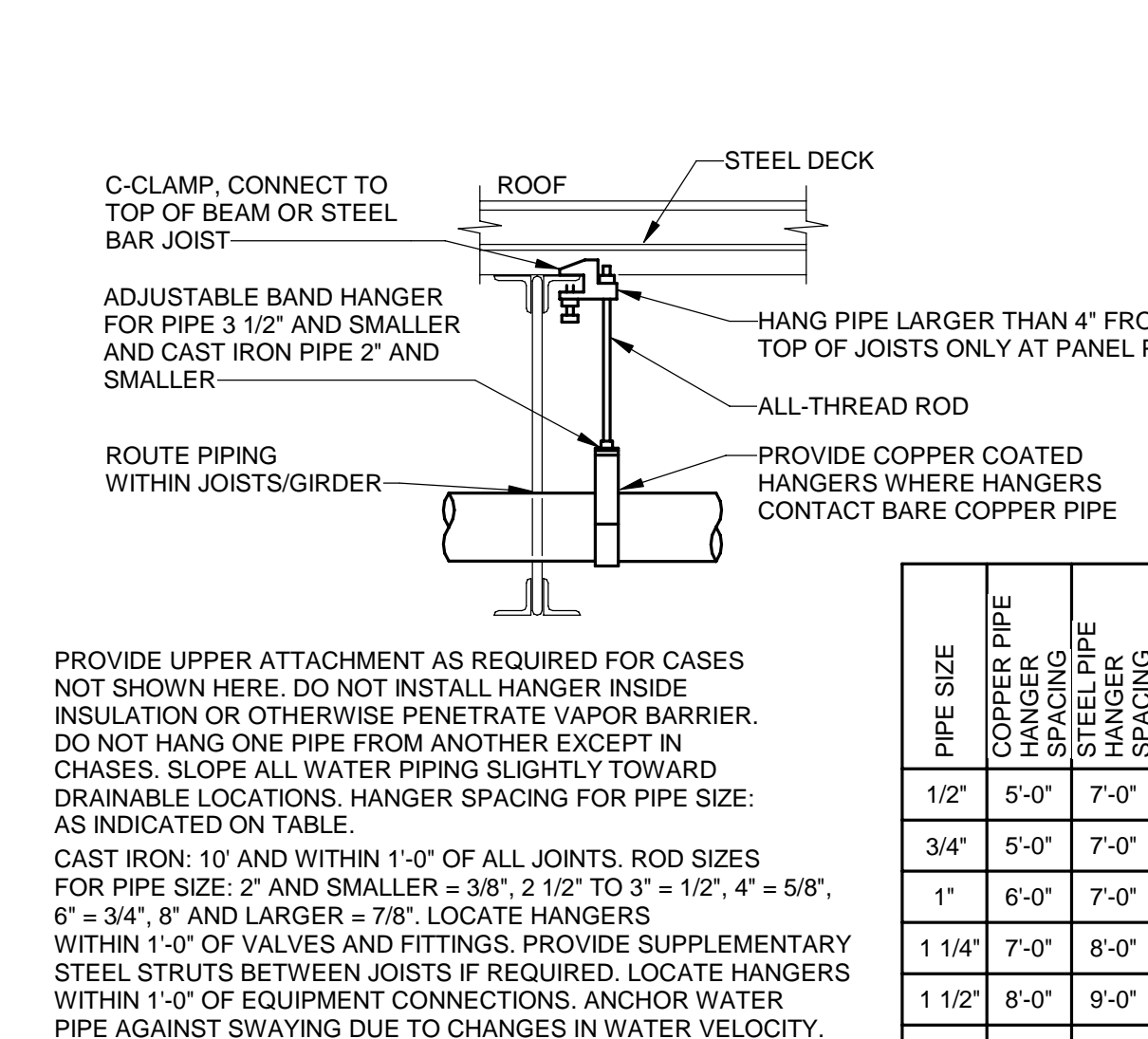
**8 WATER HEATER - (EWH-2)**  
NOT TO SCALE



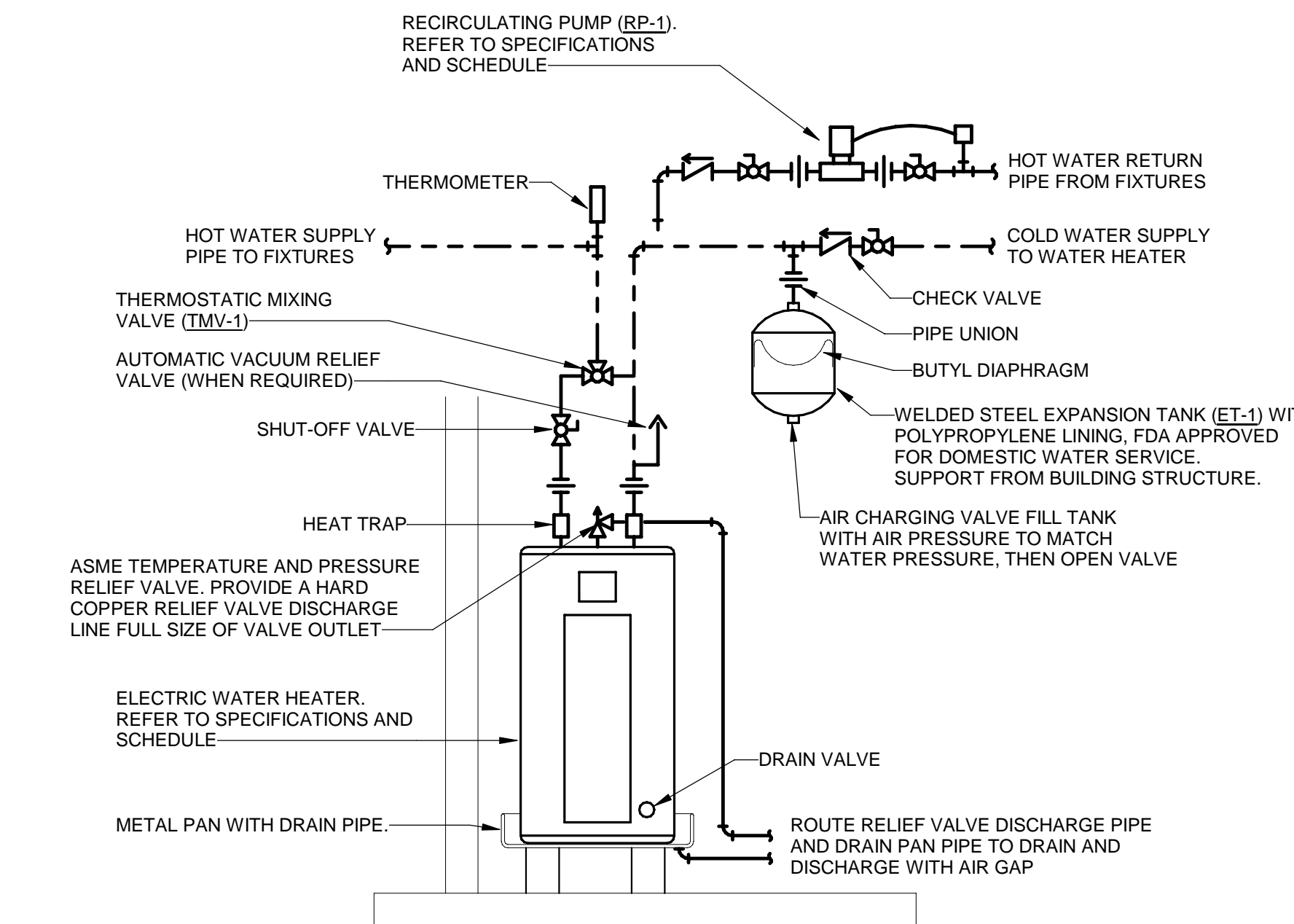
**7 EXTERIOR CLEANOUT - ECO**  
NOT TO SCALE



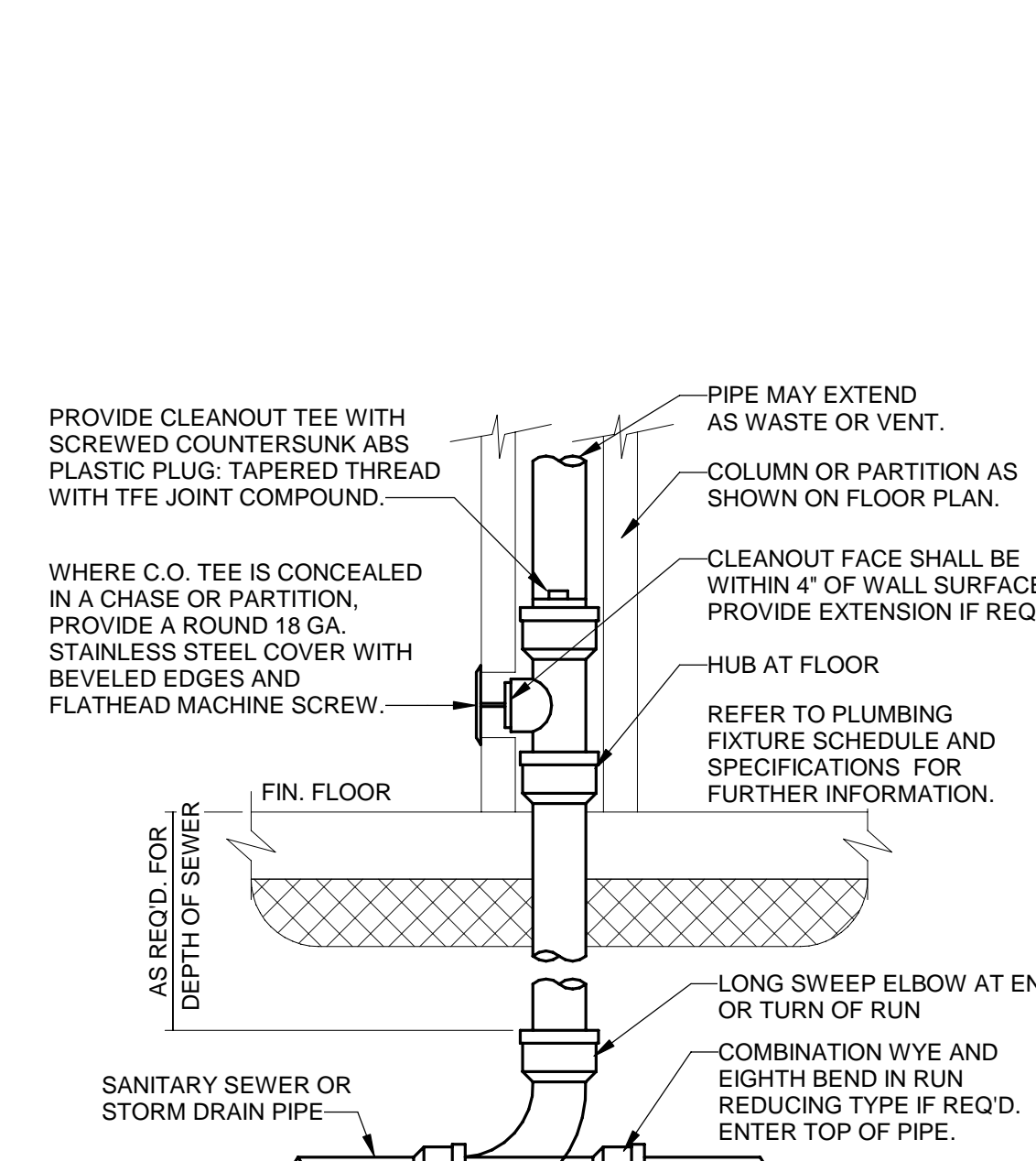
**6 FLOOR DRAIN SLAB ON GRADE - FD**  
NOT TO SCALE



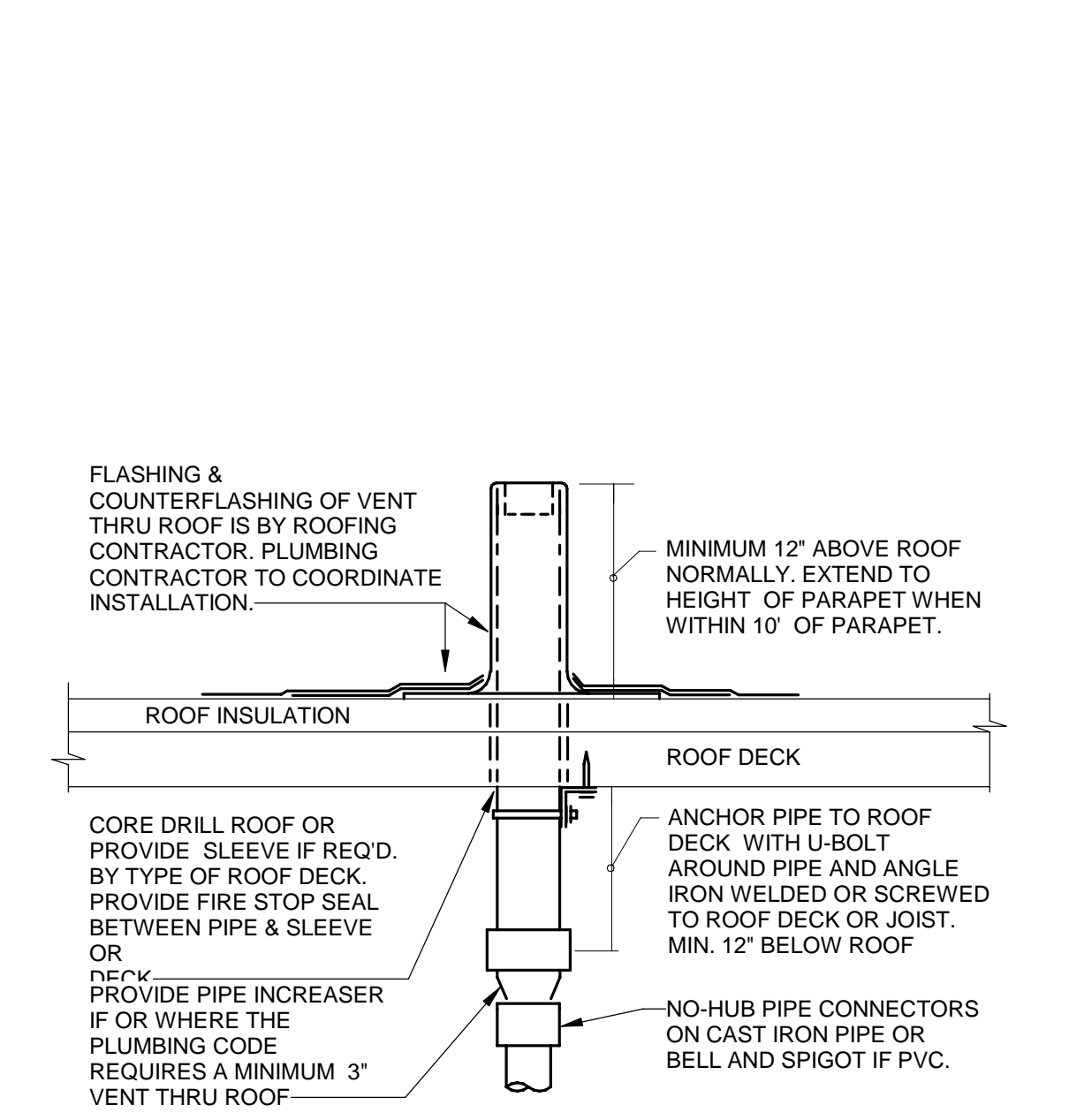
**5 PIPE HANGER**  
NOT TO SCALE



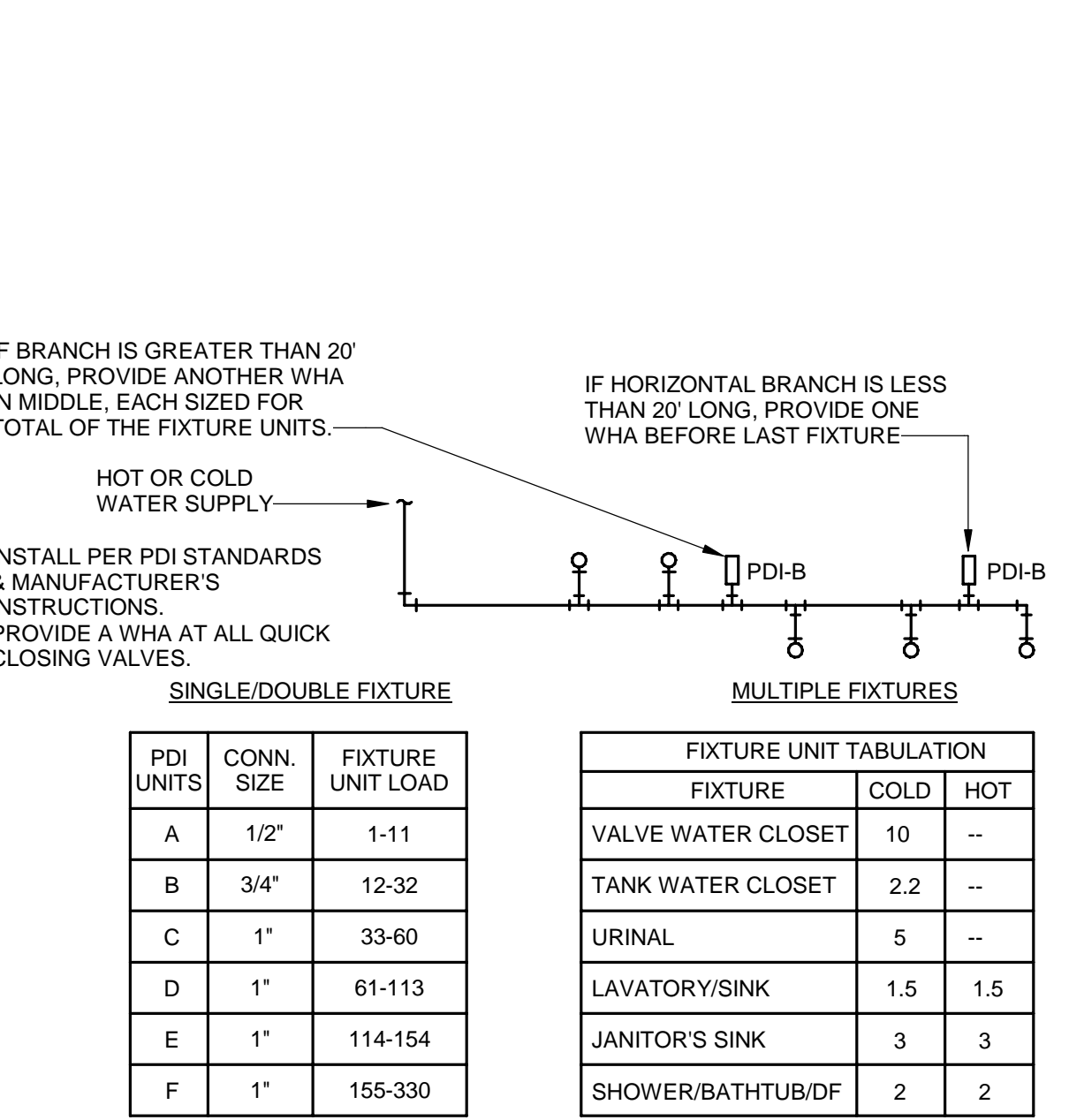
**12 WATER HEATER - (EWH-1)**  
NOT TO SCALE



**11 WALL CLEANOUT SLAB ON GRADE - WCO**  
NOT TO SCALE



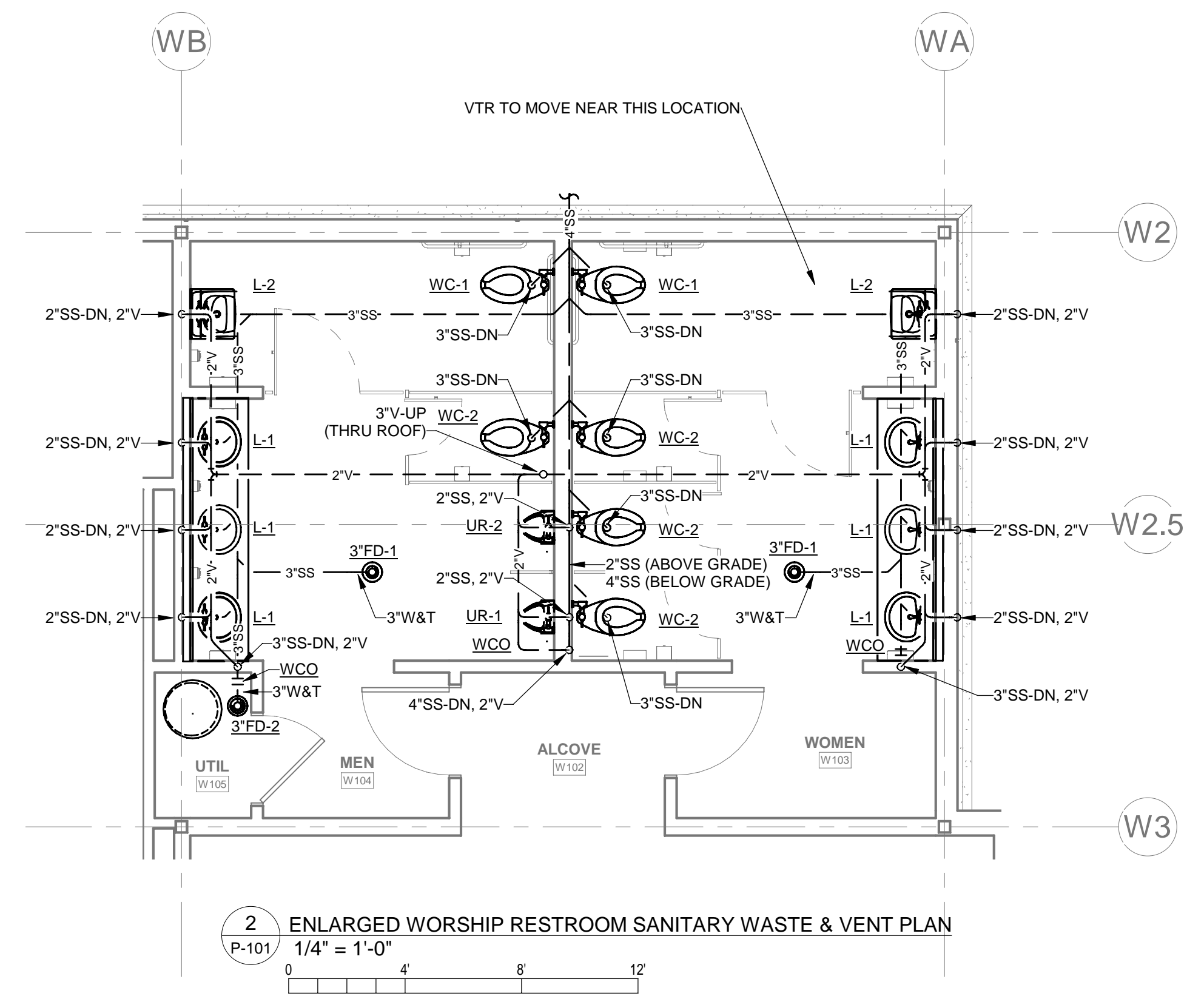
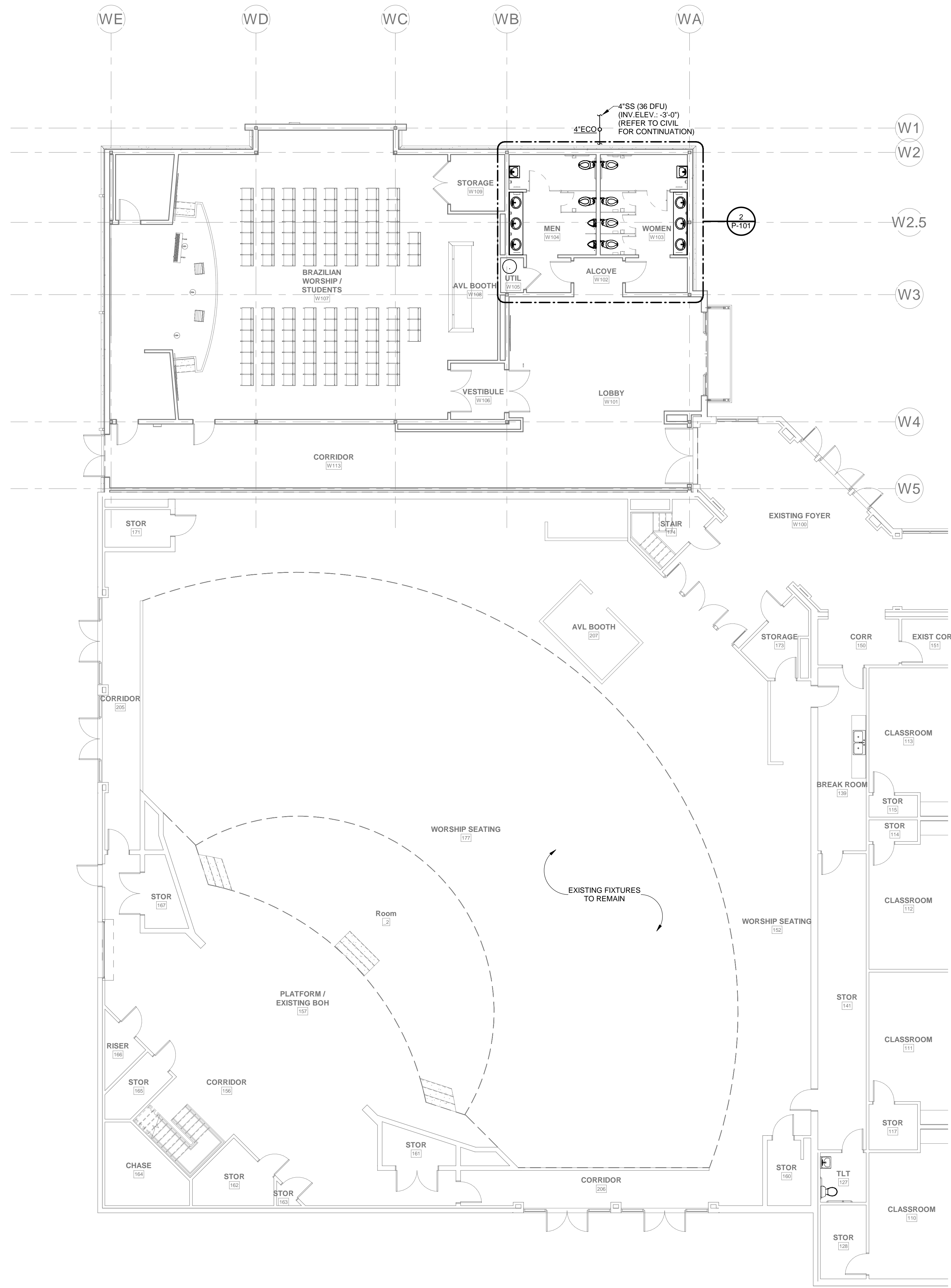
**10 VENT THRU ROOF - VTR**  
NOT TO SCALE



**9 WATER HAMMER ARRESTERS - WHA**  
NOT TO SCALE



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



1 PLUMBING FLOOR PLAN - SANITARY WASTE & VENT (WORSHIP)  
P-101/ 1/8" = 1'-0"  
0 8 16 24

#	DESCRIPTION	DATE
	SCHEDULE OF REVISIONS	

**DESIGN DEVELOPMENT**

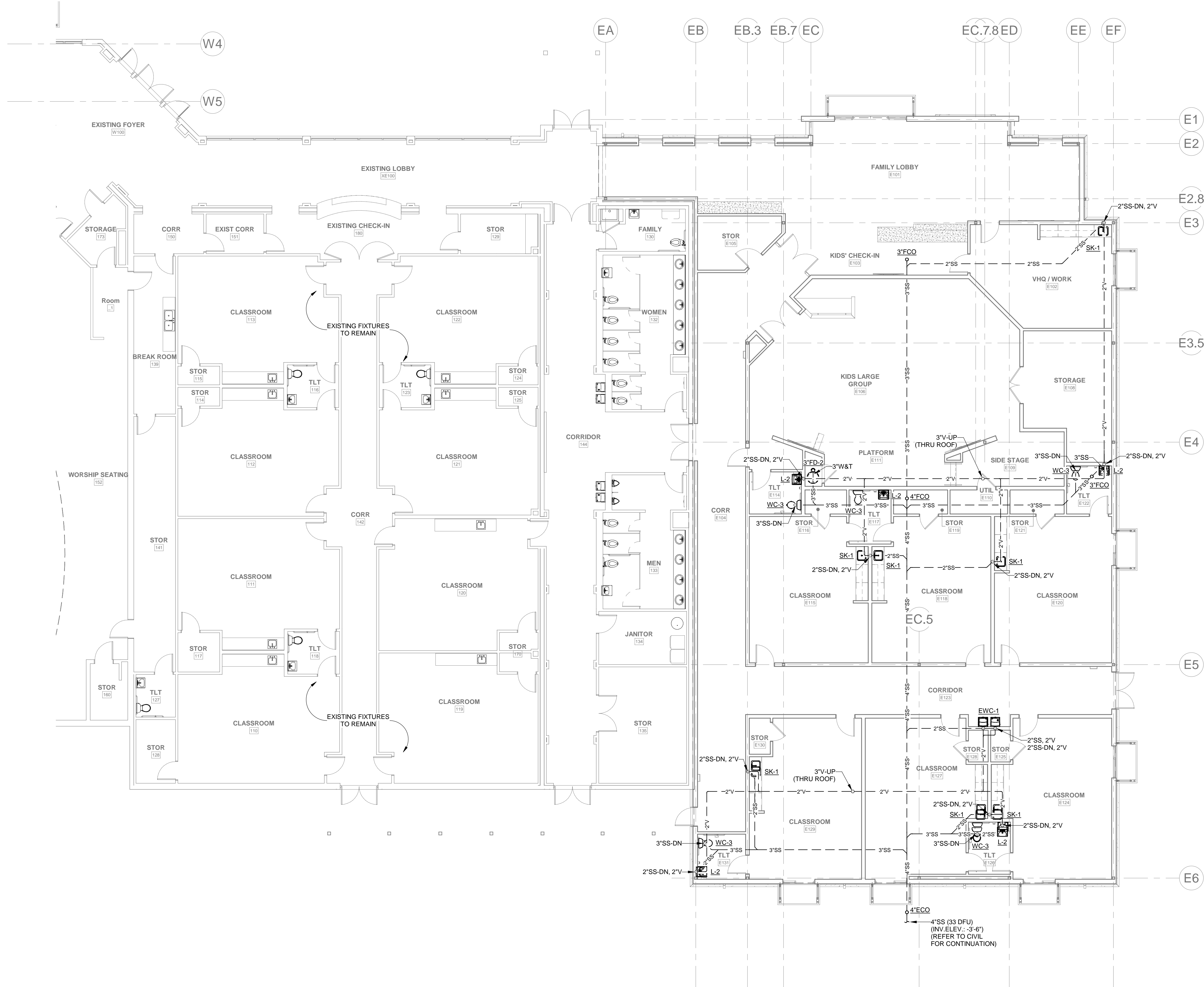
PROJECT NUMBER: 190106  
PROJECT DATE: 10/24/2019  
PROJECT ENGINEER: KFM  
PROJECT TEAM: LTB

**PLUMBING**  
**SANITARY WASTE**  
**& VENT PLAN**  
**(WORSHIP)**

**P-101**



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



1 PLUMBING FLOOR PLAN - SANITARY WASTE & VENT (EDUCATION)  
P-102  
1/8" = 1'-0"



#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

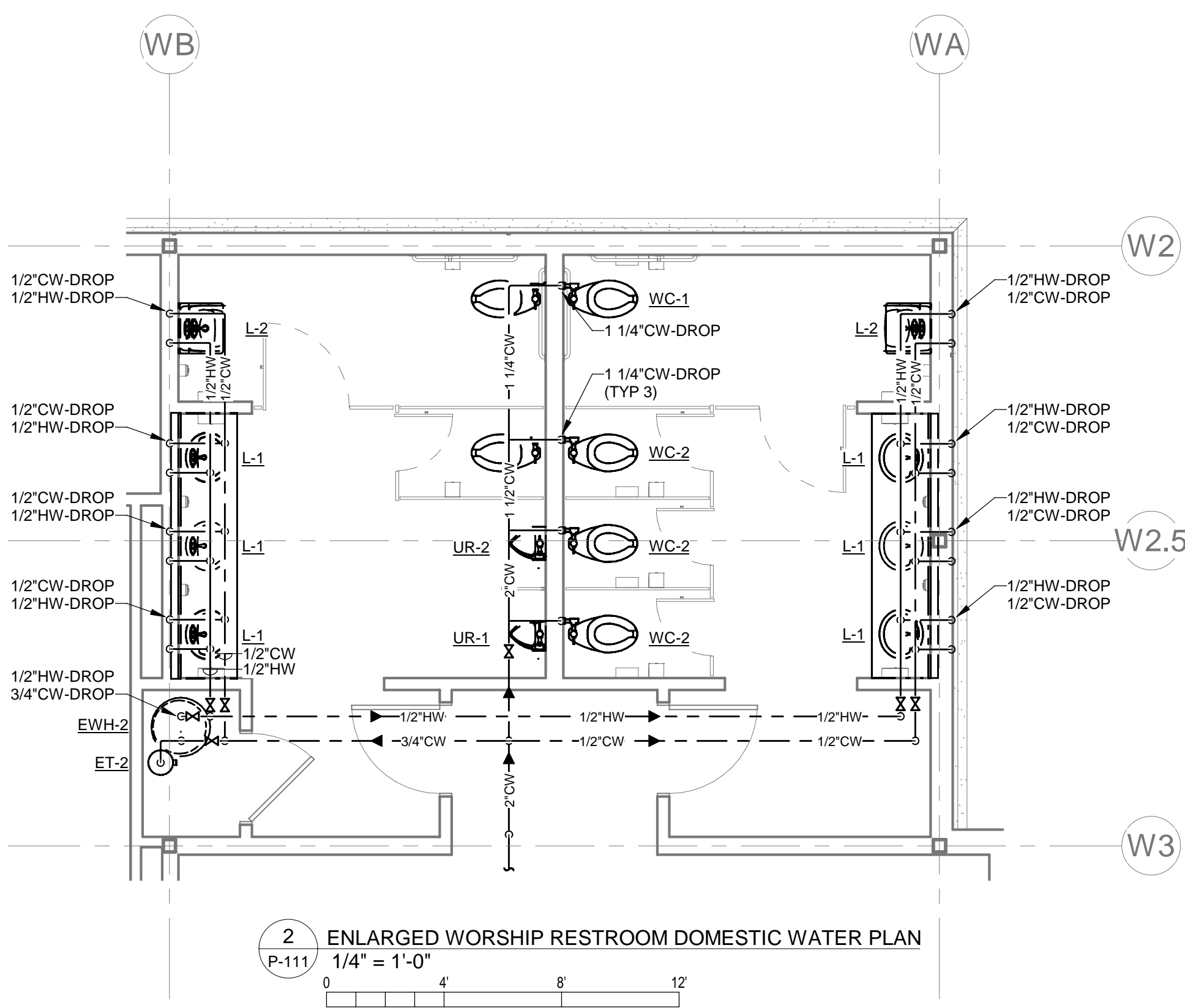
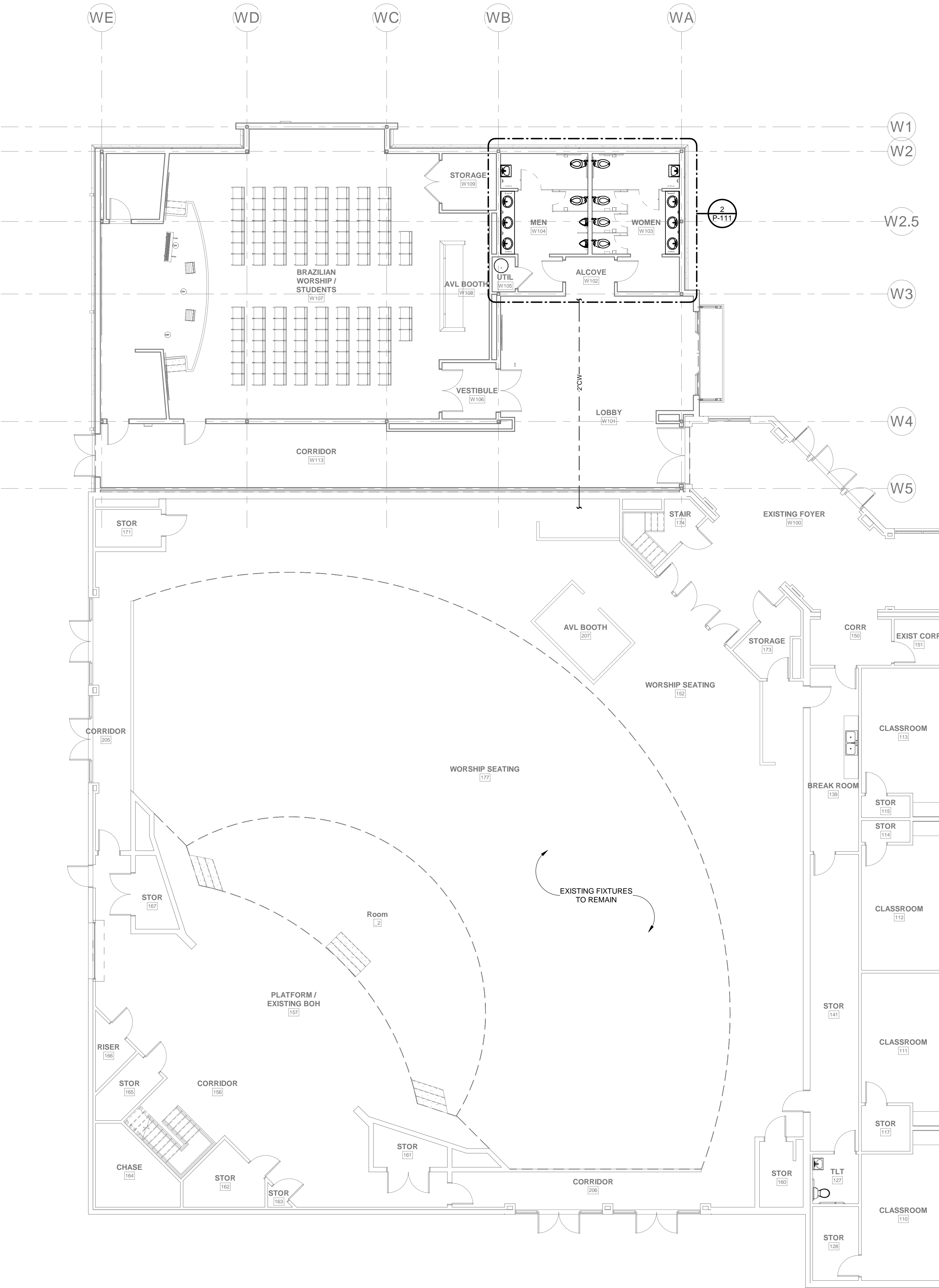
**DESIGN DEVELOPMENT**

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

**PLUMBING**  
**SANITARY WASTE**  
**& VENT PLAN**  
**(EDUCATION)**



A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
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**1** PLUMBING FLOOR PLAN - DOMESTIC WATER (WORSHIP)  
P-111 1/8" = 1'-0"  
0 8 16 24'

**2** ENLARGED WORSHIP RESTROOM DOMESTIC WATER PLAN  
P-111 1/4" = 1'-0"  
0 4 8 12'

#	DESCRIPTION	DATE
	SCHEDULE OF REVISIONS	

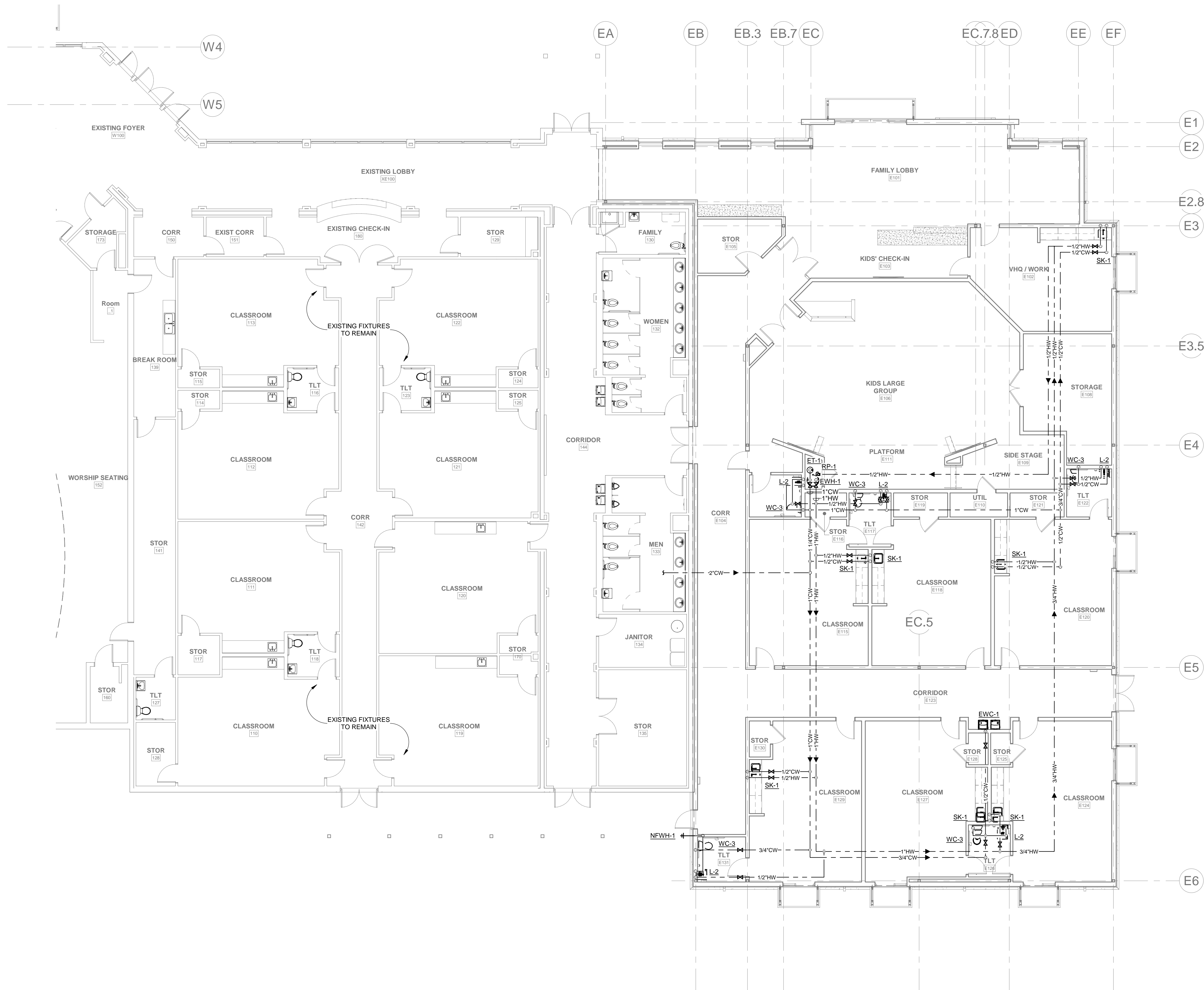
**DESIGN DEVELOPMENT**

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

**PLUMBING**  
**DOMESTIC WATER**  
**PLAN (WORSHIP)**



A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
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1 PLUMBING FLOOR PLAN - DOMESTIC WATER (EDUCATION)  
P-112  
1/8" = 1'-0"  
0 8 16 24

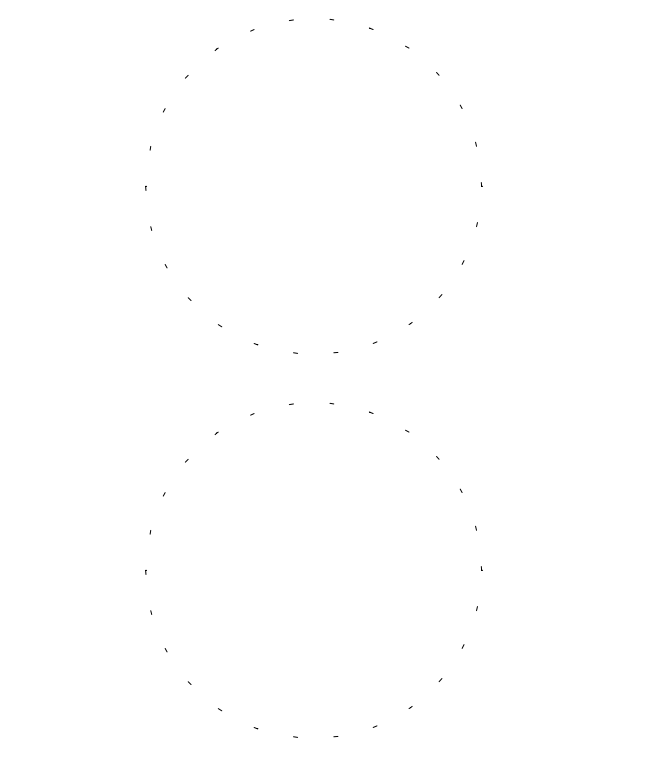
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SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

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

**PLUMBING**  
**DOMESTIC WATER**  
**PLAN (EDUCATION)**





A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
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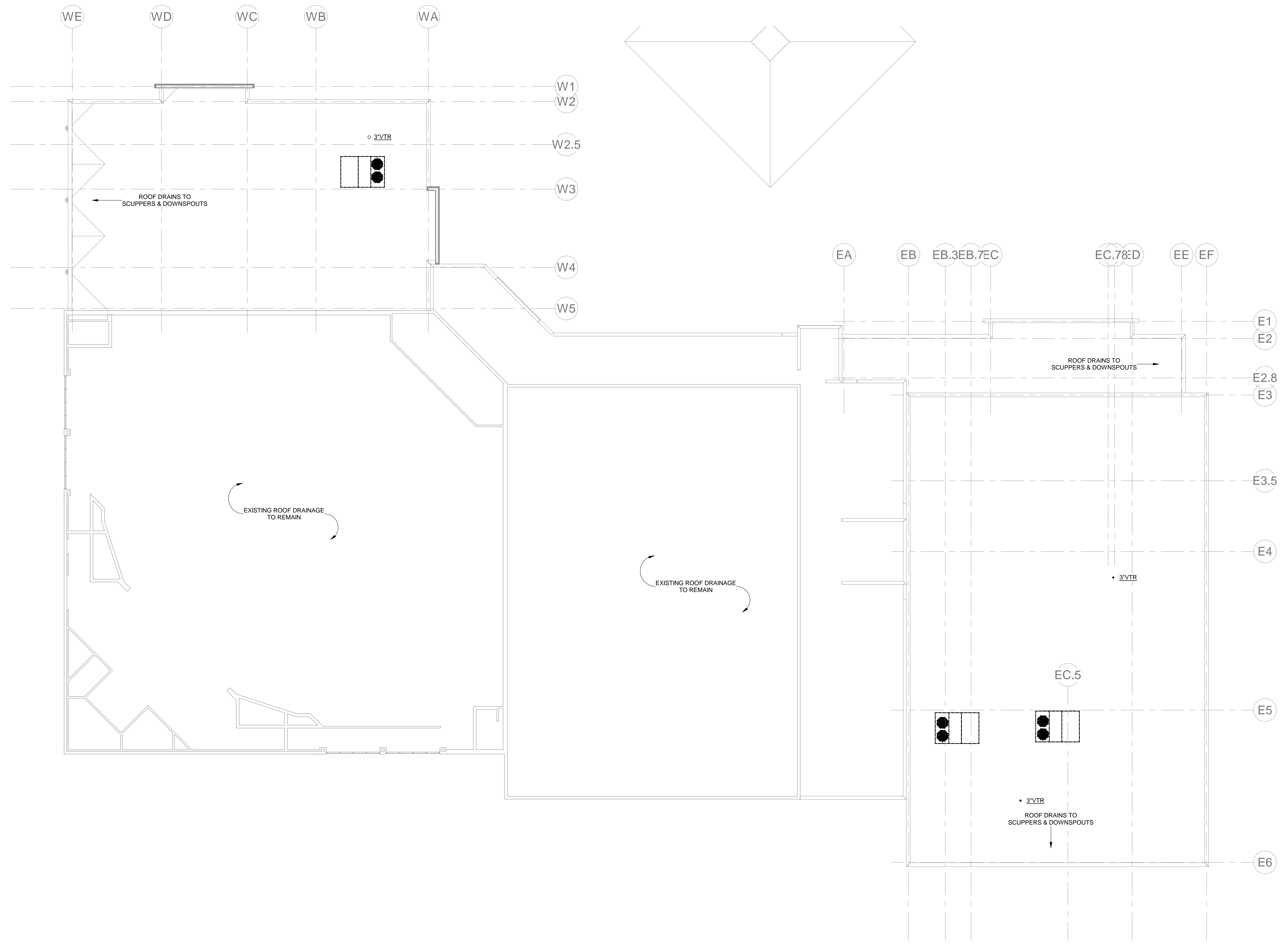
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SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

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

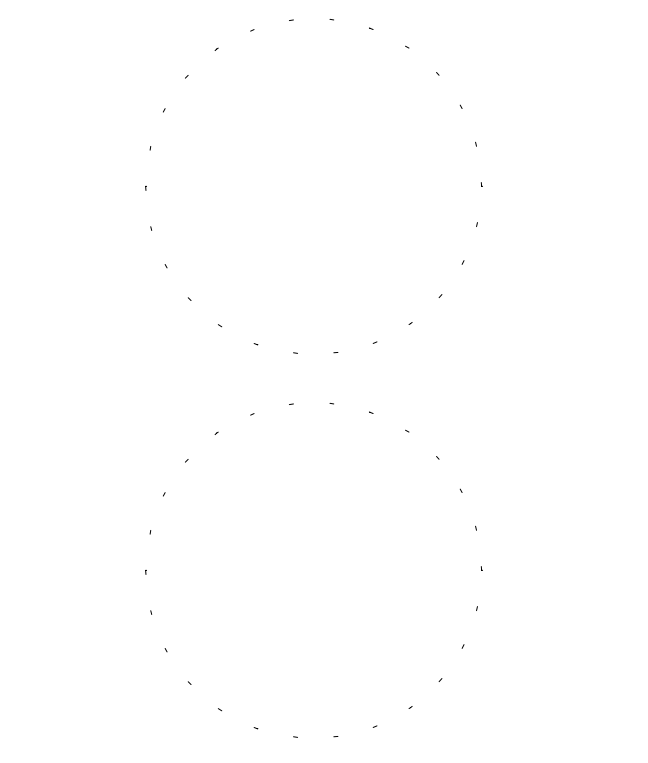
**PLUMBING ROOF PLAN**

**P-151**

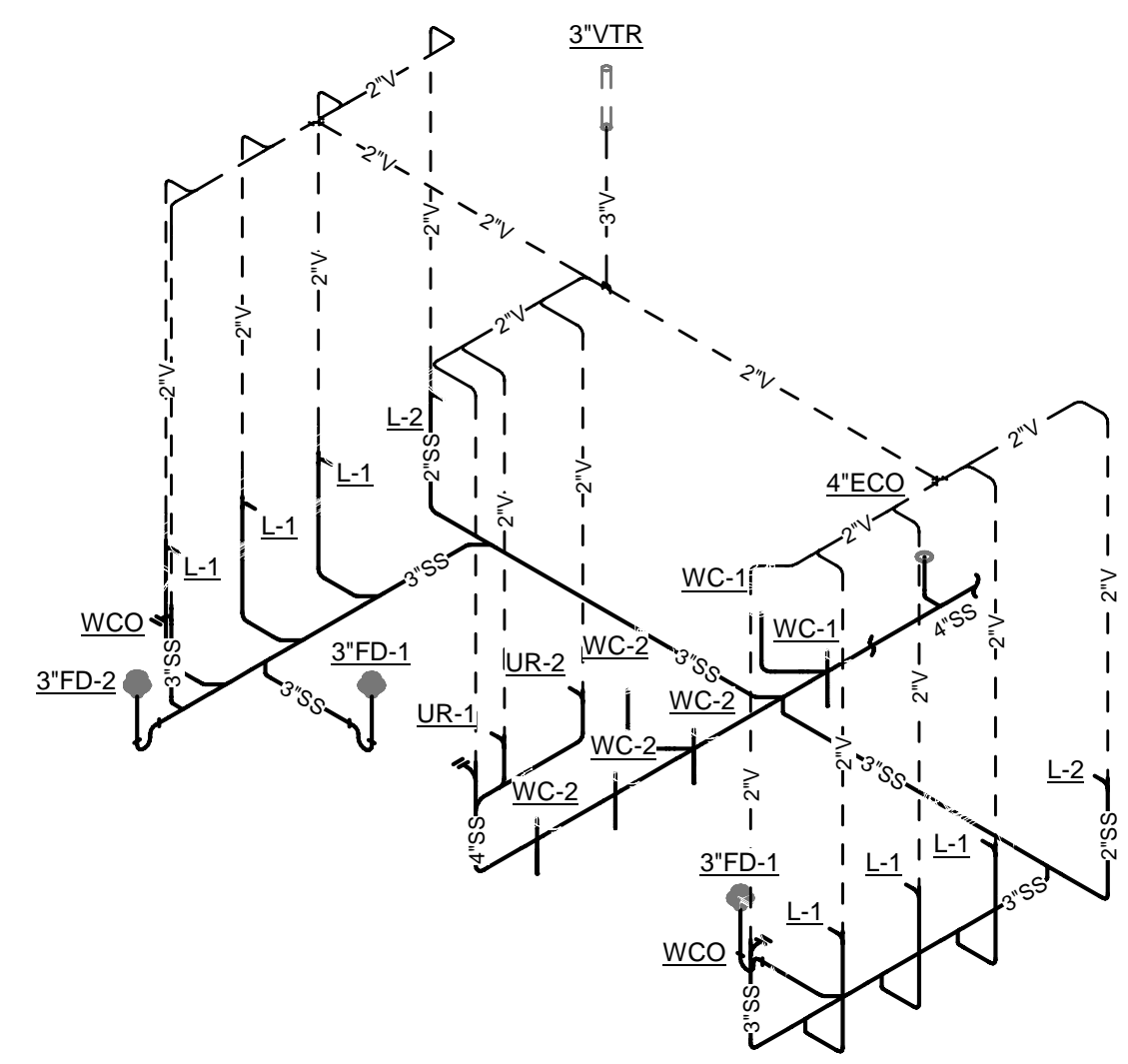


1 PLUMBING ROOF PLAN  
 P-151 3/32" = 1'-0"  
 0 8 16 24 32

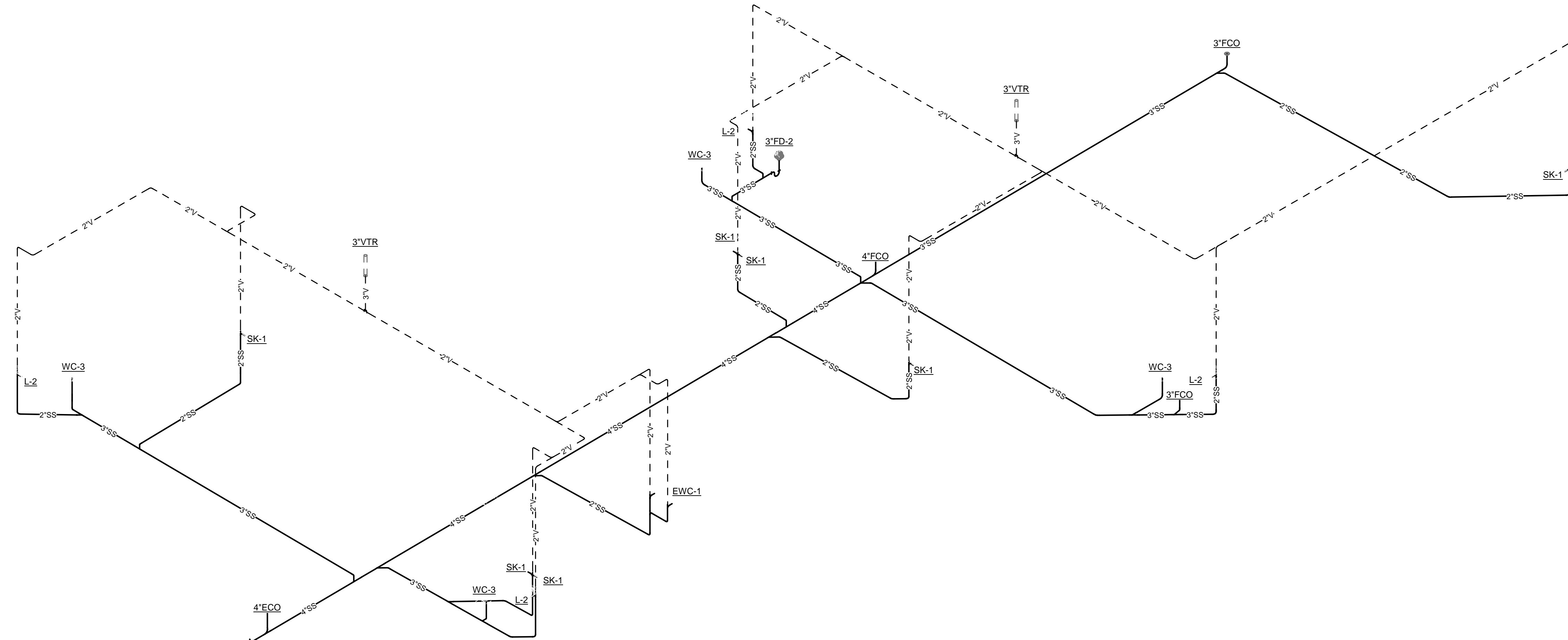




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1 SANITARY WASTE & VENT RISER DIAGRAM (WORSHIP)  
P-161 NOT TO SCALE



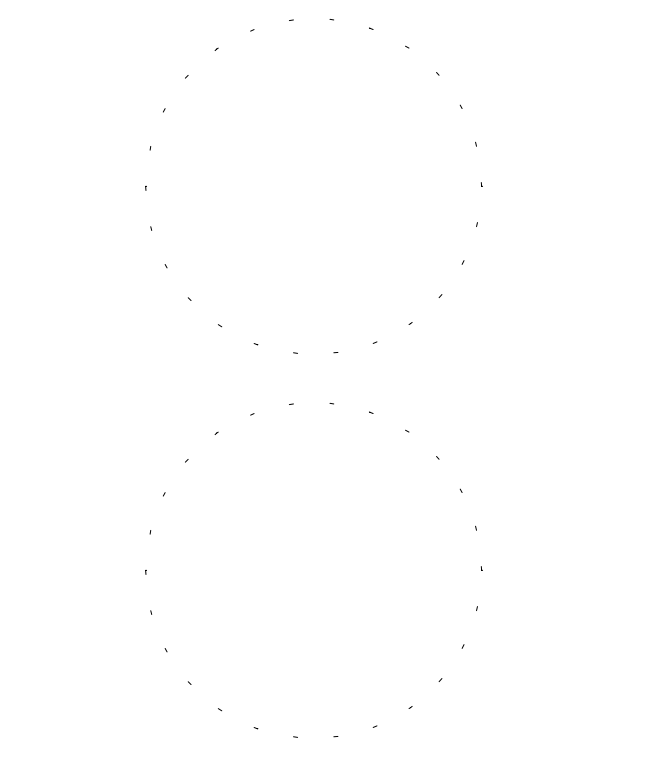
2 SANITARY WASTE & VENT RISER DIAGRAM (EDUCATION)  
P-161 NOT TO SCALE

#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

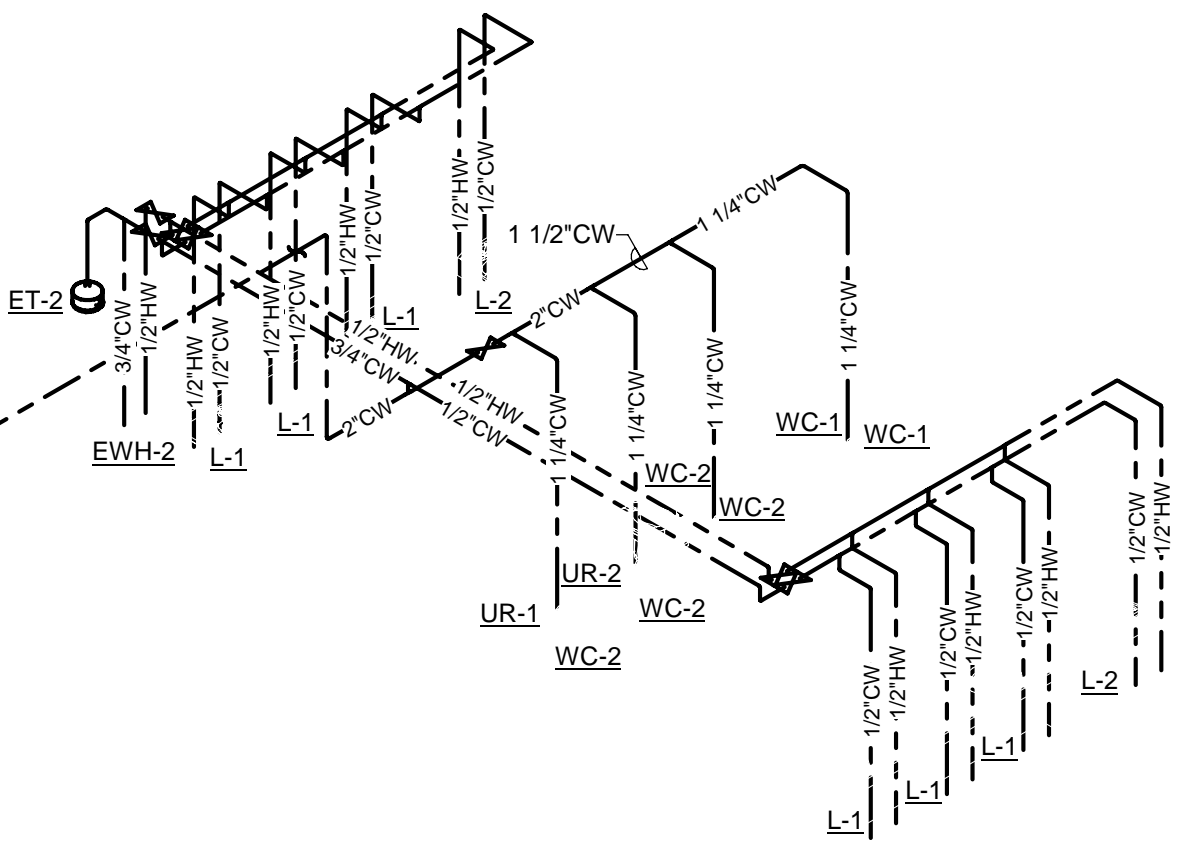
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PROJECT NUMBER:	190106
PROJECT DATE:	10/24/2019
PROJECT ENGINEER:	KFM
PROJECT TEAM:	LTB

**SANITARY WASTE & VENT RISER DIAGRAM**

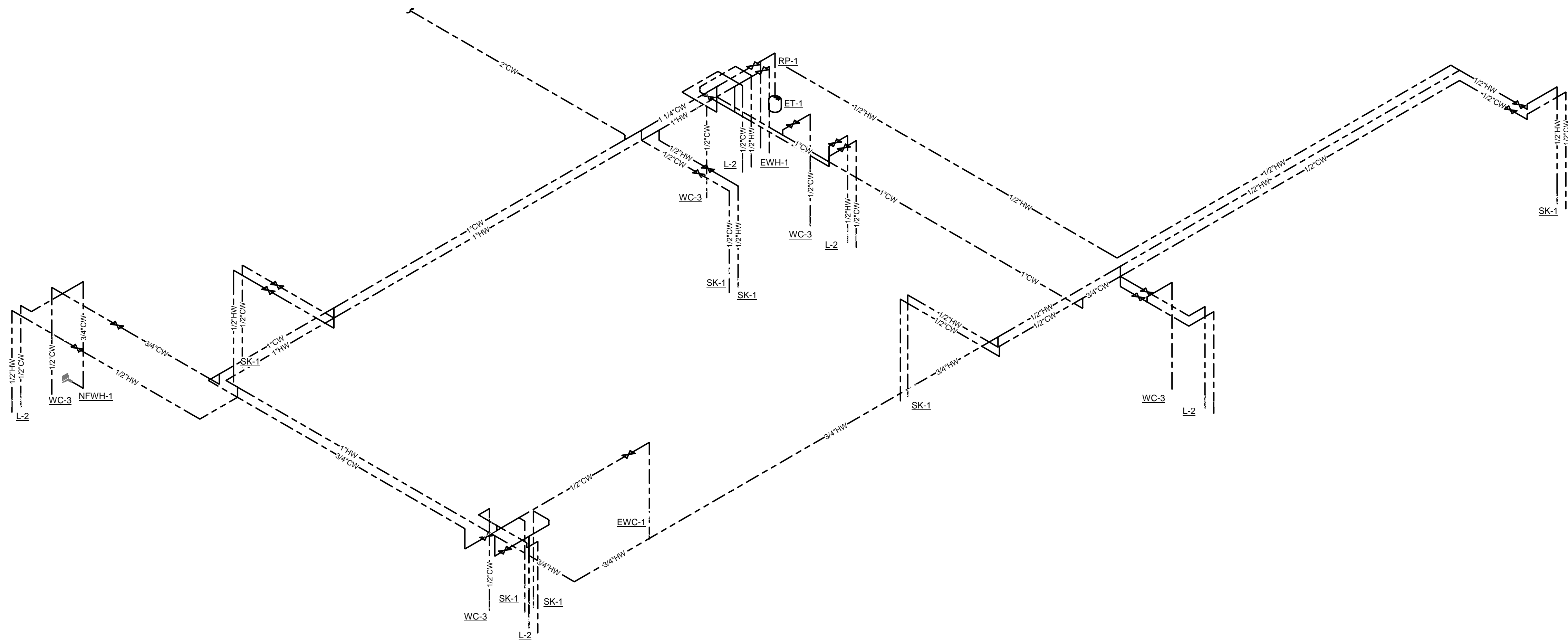




A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:  
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ORLANDO, FL 32836



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



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

#	DESCRIPTION	DATE
SCHEDULE OF REVISIONS		

**DESIGN DEVELOPMENT**

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

**DOMESTIC WATER RISER DIAGRAM**

**P-162**