

Autodesk Docs://WCF - Stage 2 - MC_AL_L/2024-03276 - MEP - MC-AL.rvt

PLUMBING ABBREVIATIONS		
ABBREVIATION		DEFINITION
AC		ABOVE CEILING
AAV		AIR ADMITTANCE VALVE
AD		AREA DRAIN
AFF		ABOVE FINISHED FLOOR
AFG		ABOVE FINISHED GRADE
AP		ACCESS PANEL
BF		BELOW FLOOR
B/G		BELOW GRADE
BT		BATHTUB
CA		COMPRESSED AIR
CL		CENTER LINE
CLG		CEILING
CO		CLEAN OUT
CW		COLD WATER
DF		DRINKING FOUNTAIN
DN		DOWN
DPV		DRY PIPE VALVE
EWC		ELECTRIC WATER COOLER
FCO		FLOOR CLEANOUT
FD		FLOOR DRAIN
FG		GENERATOR FUEL PIPING
FND		FOUNDATION DRAINAGE PIPING
FS		FLOOR SINK
G		GAS (NATURAL UNO)
GCO		GRADE CLEANOUT
GI		GREASE INTERCEPTOR
GT		GREASE TRAP
GV		GATE VALVE
GW		GREASE WASTE
HB		HOSE BIBB
HD		HUB DRAIN
HW		HOT WATER
HWR		HOT WATER RETURN
INV EL		INVERT ELEVATION
IV		INDIRECT WASTE
LV		LAVATORY
N/A		NOT APPLICABLE
NFRH		NON FREEZE WALL HYDRANT
NFRWH		NON FREEZE ROOF HYDRANT
NTS		NOT TO SCALE
OH		OVERHEAD
OD		OVERFLOW DRAINAGE
ORD		OVERFLOW ROOF DRAIN
PRV		PRESSURE REDUCING VALVE
RD		ROOF DRAIN
SAN		SANITARY
SH		SHOWER
SK		SINK
SS		SEWARY SEWER
ST		STORM
TP		TRAP PRIMER
TYP		TYPICAL
UC		UNDER COUNTER
UNO		UNLESS NOTED OTHERWISE
UR		URINAL
V		VENT
VTR		VENT THRU ROOF
W		WASTE
WC		WATER CLOSET
WCO		WALL CLEANOUT

NOTE: THESE ARE STANDARD ABBREVIATIONS. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

GENERAL PROJECT INFORMATION

LOCATION:
JUNO BEACH, FL

APPLICABLE CODES:
2023 FLORIDA BUILDING CODE, 8th EDITION
2023 FLORIDA PLUMBING CODE, 8th EDITION
2023 FLORIDA FUEL & GAS CODE, 8th EDITION
2023 FLORIDA ENERGY CONSERVATION, 8th EDITION
LOCAL CITY OF JUNO BEACH ORDINANCES

RAINFALL RATE:
4.7" PER HOUR

GAS SERVICE:
GAS TYPE: - NATURAL
TOTAL DEVELOPED LENGTH (TDL) - 50 FEET
INLET PRESSURE - 2 PSIG
PRESSURE DROP - 1 PSIG
SPECIFIC GRAVITY - 0.80
MAX CAPACITY @ size" PER TDL - 2490 CFH
PIPE MATERIAL - SCHD. 40 STEEL

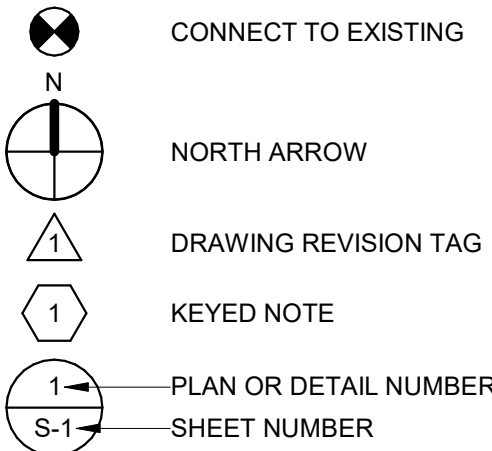
FIRE PROTECTION NOTE

LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS FOR AN AUTOMATIC FIRE SPRINKLER SYSTEM FOR THIS BUILDING, TO COMPLY WITH SPACE LAYOUT, NFPA 13, STATE, LOCAL, AND INSURANCE UNDERWRITING AUTHORITIES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	DOMESTIC HOT WATER RETURN (HWR)
	VENT (V)
	SANITARY / WASTE (W)
	STORM (ST)
	OVERFLOW (OD)
	NATURAL GAS (G)
	GREASE WASTE (GW)
	RISER UP (ELBOW)
	RISER DOWN (ELBOW)
	FIXTURE TRAP
	RISE OR DROP
	BRANCH - BOTTOM CONNECTION
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	PIPE CAP
	CLEANOUT
	VALVE
	BALANCING VALVE (CIRCUIT SETTER)
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	STRAINER
	EXISTING PIPING
	PIPING BELOW SLAB/FLOOR
	1/4" SLOPED PIPING
	1/16" SLOPED PIPING
	PIPING TO BE DEMOLISHED
	REMOTE READ SUBMETER (WATER OR GAS)
	APPROXIMATE INVERT ELEVATION

NOTE: THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

GENERAL SYMBOLS



ADA COMPLIANCE

- VERIFY FIXTURES THAT ARE INTENDED FOR HANDICAP USE WITH CURRENT ARCHITECTURAL DRAWINGS.
- PLUMBING FIXTURES DESIGNATED FOR HANDICAP USE SHALL COMPLY WITH ADA AND ALL STATE, CITY, AND LOCAL REQUIREMENTS PERTAINING TO HANDICAP ACCESSIBILITY.
- FIXTURE INSTALLATION SHALL COMPLY WITH ADA AND ANY STATE, CITY, AND LOCAL REQUIREMENTS PERTAINING TO HANDICAP ACCESSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ADA AND ALL STATE, CITY, AND LOCAL REQUIREMENTS PERTAINING TO PLUMBING FIXTURES AND PLUMBING FIXTURE INSTALLATION FOR USE BY THE HANDICAPPED.

WATER HAMMER ARRESTER SCHEDULE

CHART A - FOR GROUPED FIXTURES		CHART B - FOR LONG PIPE RUNS							
P.D.I SIZE	FIXTURE UNITS	P.D.I WATER HAMMER ARRESTERS							
		LENGTH OF PIPE	NOMINAL PIPE DIAMETER						
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
A	1-11	26'	A	A	B	C	D	E	
B	12-32	50'	A	B	C	D	E	F	
C	33-60	75'	B	C	D	AE	F	EF	
D	61-113	100'	C	D	E	F	CF	FF	
E	114-154	125'	C	D	E	F	DF	EF	FFF
F	155-310	150'	D	E	F	DF	FF	FFF	

NOTES
1. WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD PD-WH201.

ROOF DRAIN PERFORMANCE TABLE

ROOF DRAIN SIZE	MAX ROOF DRAIN FLOW RATE
2" Ø	95 GPM
3" Ø	195 GPM
4" Ø	305 GPM
6" Ø	380 GPM
8" Ø	405 GPM

PLUMBING GENERAL NOTES

- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC, PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- ALL PIPING SHALL BE CONCEALED INSIDE WALLS, BELOW FLOORS OR ABOVE CEILINGS UNLESS INDICATED OTHERWISE. REMOVE ALL EXISTING WATER PIPING NOT IN USE.
- ALL PIPING SHALL BE SLOPED AS PER AT THE MINIMUM GRADE REQUIRED BY CODE (UNLESS NOTED OTHERWISE) FOR EACH PARTICULAR PIPE SIZE. ALL SANITARY/WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL FIXTURES MUST BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY ARCHITECT.
- DO NOT RUN PLUMBING PIPING THROUGH ELECTRICAL/COMPUTER ROOMS OR DIRECTLY ABOVE ELECTRICAL PANELS.
- INSTALL WATER HAMMER ARRESTORS (PD/RS) ON DOMESTIC COLD & HOT WATER LINES AS INDICATED ON THE DRAWINGS, IN ACCORDANCE WITH THE LOCAL PLUMBING CODE, AND/OR STANDARD PD-WH201. ARRESTORS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL COORDINATION AND INFORMATION.
- ALL FIXTURES SHALL BE FURNISHED WITH QUARTER-TURN STOP VALVES. VALVES MAY BE IN SUPPLY PIPES OR INTEGRAL WITH SUPPLY FITTINGS.
- PLUMBING CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL COSTS INVOLVED.
- PROVIDE NEW PRESSURE REGULATOR (PRV) WITH INTEGRAL STRAINER ON ALL NEW INCOMING WATER SERVICES. PRESSURE REGULATOR SHALL BE FACTORY SET TO SUPPLY 50 PSI TO BUILDING. FOR INCOMING WATER SERVICES 2 INCHES AND LARGER IN SIZE, A PRESSURE REGULATOR STATION SHALL BE PROVIDED WITH TWO PARALLEL PRESSURE REGULATORS WITH INTEGRAL STRAINERS, PRESSURE GAUGES AND SHUT OFF VALVES ON EITHER SIDE OF EACH, AND A FULL SIZE BYPASS WITH NORMALLY CLOSED BALL VALVE. WATER SERVICES LARGER THAN 4" SHALL HAVE A THIRD PARALLEL LINE WITH FULL SIZE REGULATOR WITH SAME APPURTENANCES AS WELL. SEE DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
- INSULATE SUPPLY PIPES. STOPS AND DRAIN AT EACH ADA SINK WITH FIRE RESISTANT MOLDED FOAM INSULATING DEVICE TRUEBOB ADA LAV GUARD.
- MINIMUM FIXTURE CONNECTION SIZES SHALL BE MADE IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE.
- ALL EQUIPMENT, PIPING, APPURTENANCES SHALL BE PROTECTED FROM DEBRIS AND DAMAGE. SENSITIVE EQUIPMENT SHALL NOT BE DELIVERED TO THE JOB SITE UNTIL SUCH TIME AS IT IS TO BE INSTALLED. PIPING ENDS SHALL BE CLOSED BY TEMPORARY MEANS WHEN PORTIONS OF THE SYSTEM ARE NOT COMPLETE.
- LOCATE ALL VALVES WHERE THEY ARE ACCESSIBLE FOR SERVICE AND USE. WHERE ACCESS PANELS ARE REQUIRED, COORDINATE SELECTION AND LOCATION WITH ARCHITECT.
- PROVIDE TRAP PRIMER AND CONNECTION FOR ANY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN NOT SUBJECT TO REGULAR FLOW.
- ALL PIPES DROPPING AT COLUMNS SHALL BE INSTALLED WITHIN THE ENCLOSURE DETAILED ON THE ARCHITECTURAL DRAWINGS SUCH THAT THE DIMENSIONS OF THE ENCLOSURE ARE NOT ALTERED.
- INSULATE ALL NEW HOT AND COLD WATER PIPING. SIZE PER SPECIFICATIONS.
- ALL PENETRATIONS AT FLOORS AND RATED PARTITIONS SHALL HAVE A UL CLASSIFIED FIRE STOP SYSTEM TESTED TO ASTM E814 AND UL 1479 BY UNDERWRITERS LABORATORIES. FIRE STOP SYSTEMS SHALL BE PROSECTED BY ARCHITECT.
- ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
- EXPPOSED PIPING IN CONNECTION WITH PLUMBING FIXTURES SHALL BE CHROMIUM PLATED. WHERE PIPES PASS THROUGH WALLS, PROVIDE CHROMIUM PLATES ESCUTCHEONS AND FIRMLY SECURE IN PLACE.
- PROVIDE APPROVED FLANGES FOR CONNECTIONS BETWEEN DRAINAGE PIPING AND FLOOR OUTLET PLUMBING FIXTURES.
- DEFECTIVE WORK IF INSPECTION OR TESTS SHOW DEFECTS, SUCH DEFECTIVE WORK OR MATERIAL SHALL BE REPLACED AND INSPECTION AND TESTS SHALL BE REPEATED. ALL REPAIRS TO PIPING SHALL BE MADE WITH NEW MATERIAL. NO CAULKING OF SCREWED JOINTS OR HOLES WILL BE ACCEPTABLE.
- CONTRACTOR TO SUBMIT ADDITIONAL SET OF GAS DRAWINGS TO HVAC PLANS REVIEWER. NOTE: SEE PLUMBING DRAWINGS FOR ANY ADDITIONAL PLUMBING SPECIFICATIONS.
- ALL PIPING NOTED BELOW THAT IS EXPOSED TO FREEZING (NOT IN HEATED AREAS) SHALL BE PROTECTED BY A HEAT TRACE SYSTEM WITH INSULATION. HEAT TRACE FOR PIPE SIZES > 2" SHALL HAVE AN ELECTRICAL LOAD OF 5 W PER LINEAR FOOT OF PIPE. HEAT TRACE FOR PIPE SIZES ≤ 2" SHALL HAVE AN ELECTRICAL LOAD OF 10 W PER LINEAR FOOT (TWO STRIPS OF HEAT TRACE). UTILIZE CHROMALOX CPR COMMERCIAL SELF-REGULATING HEAT TRACE OR APPROVED EQUAL. COORDINATE ALL POWER REQUIREMENTS WITH ELECTRICAL DRAWINGS AND CONTRACTOR.
 - ALL P-TRAPS IN EXPOSED AREAS.
 - ALL DOMESTIC WATER SUPPLY AND WET FIRE SPRINKLER PIPING IN EXPOSED AREAS.
 - ALL GREASE WASTE PIPING IN EXPOSED AREAS.
- ALL PUBLIC LAVATORY AND HAND SINK FAUCETS ARE TO BE PROVIDED WITH AN ASSE 1070 LISTED TEMPERATURE LIMITING DEVICE AS REQUIRED BY LOCAL PLUMBING CODE. CONTRACTOR SHALL UTILIZE ASSE 1070 LISTED, LEONARD MODEL LF-270 (OR APPROVED EQUAL) THERMOSTATIC MIXING VALVE SET AT 105°F MAX TO THOSE FAUCETS UNLESS NOTED OTHERWISE.

FIRE PROTECTION GENERAL NOTES

- THE ARCHITECTURAL AND MEP DRAWINGS TO BE REFERENCED FOR COORDINATION ARE DIAGRAMMATIC IN NATURE, AND ARE NOT INTENDED TO INDICATE ALL POSSIBLE CONDITION. IT IS INTENDED THAT COMPLETE FIRE PROTECTION SYSTEMS BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND INTERFACES COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS INDICATED IN THESE CONTRACT DOCUMENTS SHALL BE STRICTLY CONFORMED TO AS SPECIFIED. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS, SHALL BE FURNISHED AND INSTALLED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND WORK OF OTHER TRADES PRIOR TO THE PREPARATION OF SHOP DRAWING SUBMITTALS.
- ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL COMPLETE THE WORK INDICATED ON THE DRAWINGS. ALL SYSTEMS SHALL BE FINISHED, TESTED, AND ADJUSTED, AND PROVEN TO BE FULLY OPERATIONAL AND USEABLE.
- GUARANTEE ALL EQUIPMENT AND SYSTEMS FOR ONE YEAR AFTER OWNER ACCEPTANCE.
- COORDINATE ALL WORK WITH EXISTING CONDITIONS AND ALL TRADES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, CONDUIT, PANELS, DUCTWORK, EQUIPMENT SUPPORTS, PIPING, ETC. AND COORDINATE THE INSTALLATION ACCORDINGLY.
- THE FIRE PROTECTION SPRINKLER SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13, LATEST EDITION AND THE LOCAL AUTHORITIES HAVING JURISDICTION. SUBMIT FLOW TEST RESULTS, SHOP DRAWINGS, DETAILS, HYDRAULIC CALCULATIONS, ETC. AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION. OBTAIN FLOW TEST INFORMATION AS REQUIRED TO PROPERLY ANALYZE THE STREET WATER PRESSURE AVAILABLE FOR THE SYSTEM. REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PREPARE A REFLECTED CEILING PLAN INDICATING THE SPRINKLER HEAD LOCATIONS AND SUBMIT THIS TO THE ARCHITECT FOR REVIEW (NOT FOR ENGINEER REVIEW). COORDINATE THE SPRINKLER HEAD LOCATIONS WITH THE LIGHTING AND DIFFUSER / GRILLE LAYOUT. SPRINKLER HEADS SHALL BE LOCATED AT THE CENTER POINT OF CEILING TILES OR AN ORGANIZED PATTERN FOR GYPSUM BOARD TYPE CEILINGS.
- ALL NEW SPRINKLERS SHALL MATCH TEMPERATURE AND RTI (RESPONSE TIME INDEX) OF EXISTING SPRINKLERS.
- AREAS WHERE GLASS IS USED IN A 1 HOUR RATED PARTITION AND GLASS IS NOT SPECIFIED BY ARCHITECT TO MEET THIS RATING. "GLASS WASH" SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE AT 6'-0" ON CENTER WITHIN 12' OF GLASS.
- SCOPE
 - A. FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLETE INSTALLATION OF THE FIRE PROTECTION SYSTEMS INCLUDING BUT NOT LIMITED TO PIPING, INSULATION, EQUIPMENT, SPRINKLER HEADS, AND ALL OTHER WORK INDICATED ON THE DRAWINGS OR AS SPECIFIED.
 - B. OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION AND DELIVER CERTIFICATE OF APPROVAL TO THE GENERAL CONTRACTOR. ALL ASSOCIATED FEES SHALL BE PAID BY THE CONTRACTOR.
 - C. CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS.
 - D. ALL MATERIALS AND EQUIPMENT OF THE FIRE PROTECTION SYSTEMS NECESSARY TO ITS PROPER OPERATION, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE.
 - E. VISIT SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. ANY ADJUSTMENTS IN PIPE ROUTING SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - F. WORK SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE AND CURRENT BUILDING CODE, FIRE PROTECTION CODE, NFPA 13, AND LOCAL AUTHORITIES HAVING JURISDICTION.

SHEET LIST

SHEET NUMBER	SHEET NAME
P-001	PLUMBING GENERAL
P-121	SANITARY PLAN - FIRST FLOOR
P-122	SANITARY PLAN - SECOND FLOOR
P-123	SANITARY PLAN - THIRD FLOOR
P-124	SANITARY PLAN - ROOF FLOOR
P-131	SUPPLY PLAN - FIRST FLOOR
P-132	SUPPLY PLAN - SECOND FLOOR
P-133	SUPPLY PLAN - THIRD FLOOR
P-134	SUPPLY PLAN - ROOF FLOOR
P-300	PLUMBING UNIT PLANS
P-400	PLUMBING ENLARGED PLANS - KITCHEN
P-500	PLUMBING RISERS
P-600	PLUMBING DETAILS

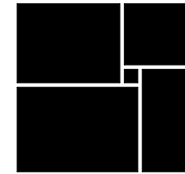
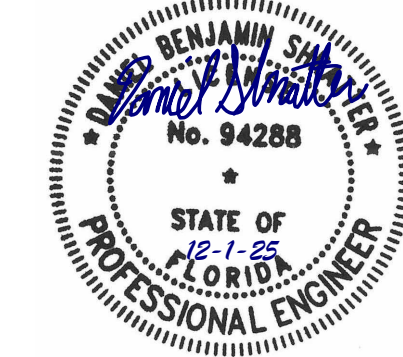
PUMP SCHEDULE

MARK	SERVICE	MAKE/MODEL	CAPACITY (GPM)	DISCHARGE HEAD (FT)	HP	ELECTRICAL	REMARKS
CP-1	RECIRC. PUMP	BELL & GOSSETT / ECOCIRC+ 20-18	2	5	(70W)	115V/1Φ	ELECTRICALLY COMMUTATED MOTOR WITH BUILT-IN ELECTRICAL OVERLOAD AND DRY RUN PROTECTION. INTEGRAL STAND-ALONE CONTROLS FOR CONSTANT TEMPERATURE OPERATION (SET AT 115°F). STAINLESS STEEL CONSTRUCTION. SEE ELECTRICAL DRAWINGS FOR EXACT POWER REQUIREMENTS.
CP-2	RECIRC. PUMP	BELL & GOSSETT / XL N	3	10	---	115V/1Φ	ELECTRICALLY COMMUTATED MOTOR WITH BUILT-IN ELECTRICAL OVERLOAD AND DRY RUN PROTECTION. INTEGRAL STAND-ALONE CONTROLS FOR CONSTANT TEMPERATURE OPERATION (SET AT 115°F). STAINLESS STEEL CONSTRUCTION. SEE ELECTRICAL DRAWINGS FOR EXACT POWER REQUIREMENTS.
ESP-1	ELEVATOR SUMP PUMP	BELL & GOSSETT / MODEL ELK2EC1038	100	20	1	115V/1Φ	OIL MINDER SUMP PUMP WITH ALARM PANEL. PROVIDE WITH FULL OPEN PORT SHUT OFF VALVE AND CHECK VALVE OUTSIDE OF SUMP PIT. PLUG-TYPE DISCONNECT. SEE ELECTRICAL DRAWINGS FOR EXACT POWER REQUIREMENTS.
FP-1	FIRE PUMP	BY FP CONTRACTOR	750	---	30	208V/3Φ	FIRE PUMP AND FIRE SPRINKLER DESIGN BY FIRE SPRINKLER CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MAKE/MODEL	FIXTURE SUPPORT	MIN. CONNECTION SIZE	MINIMUM VENT SIZE	REMARKS
				CW HW WASTE		
BT-1	BATH TUB	SEE SPA CONSULTANT	FLOOR	1/2" 1/2" 2"	SEE PLANS	SEE SPA CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION.
DB	DOWNSPOUT BOOT	MIFAB / R1500	GRADE	---	SEE PLANS	COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS. PROVIDE WITH CLEAN OUT OPTION.
DF-1	MOP SINK	ELKAY MODEL / EDPEB117C	FLOOR	1/2" 1/2" 3"	SEE PLANS	PROVIDE WITH REMOTE CHILLER (ECH8) INSTALLED ABOVE CEILING AND MANUFACTURER'S FILTER.
FCO	FLOOR CLEANOUT	MIFAB / C1100-R	FLOOR	---	SEE PLANS	FLOOR CLEANOUT TO BE FLUSH WITH FLOOR.
FD-1	FLOOR DRAIN	MIFAB / F1103-C-TS	FLOOR	** --- 3"	SEE PLANS	"TOP SET" FINISHED FLOOR DRAIN WITH 6" DIAM. ADJUSTABLE NICKEL BRONZE STRAINER. PROVIDE WITH PLASTIC COVER AND TRAP PRIMER CONNECTION ("PROVIDE WITH 1/2" TRAP PRIMER CONNECTION FROM NEARBY SINK TAILPIECE - MIFAB MODEL M-750 OR APPROVED EQUAL).
FS-1	FLOOR SINK	MIFAB / FS1520-FL-C	FLOOR	---	SEE PLANS	8"x8"x6" FLOOR SINK WITH FLANGE, WHITE ACID RESISTANT INTERIOR, MEMBRANE CLAMP, WEEP HOLES, ALUMINUM DOME STRAINER, AND STAINLESS STEEL SEDIMENT BUCKET. PROVIDE WITH TRAP GUARD IN LIEU OF TRAP PRIMER.
FS-2	FLOOR SINK	MIFAB / FS1520-FL-C	FLOOR	---	SEE PLANS	8"x8"x6" FLOOR SINK WITH FLANGE, WHITE ACID RESISTANT INTERIOR, MEMBRANE CLAMP, WEEP HOLES, ALUMINUM DOME STRAINER, AND STAINLESS STEEL SEDIMENT BUCKET. PROVIDE WITH TRAP GUARD IN LIEU OF TRAP PRIMER.
HB-1	HOSE BIB	WOODFORD / B67	WALL	3/4" --- ---	---	FREEZE PROOF WALL HYDRANT BOX HOSE BIB WITH KEY.
LV-1	LAVATORY	RUVATI / RVB0616	COUNTER	1/2" 1/2" 2"	SEE PLANS	PROVIDE WITH DELTA MODEL, 19999-DST FAUCET (1.2 GPM)
LV-2	LAVATORY	KOHLER / K-2035-1	WALL	1/2" 1/2" 2"	SEE PLANS	PROVIDE WITH GRID STYLE DRAIN, AND BRADLEY FAUCET, S53-3100, 0.5 GPM MAX. CARRIER TO BE ABLE TO HOLD MINIMUM 250 LBS.
MS-1	MOP SINK	FIAT / MSB2424	FLOOR	1/2" 1/2" 3"	SEE PLANS	MOLDED STONE MOP SINK BASIN. PROVIDE WITH FIAT MODEL 830-AA CHROME PLATED SERVICE FAUCET WITH INTEGRAL VACUUM BREAKER, STOPS, WALL BRACE, PAIL HOOK, AND THREADED OUTLET. PROVIDE WITH STAINLESS STEEL WALL GUARDS.
OD-1	OVERFLOW DRAIN	ZURN / Z100F-89	ROOF	---	SEE PLANS	OVERFLOW DRAIN TO BE PROVIDED WITH 2" DAM
RD-1	ROOF DRAIN	ZURN / Z100F	ROOF	---	SEE PLANS	PRIMARY ROOF DRAIN TO BE INSTALLED AT LOWEST POINT ON ROOF.
RH-1	ROOF HYDRANT	WOODFORD / SRH-MS	ROOF	3/4" --- ---	---	ROOF HYDRANT WITH MOUNTING SET. NO DRAIN REQUIRED.
SH-1	SHOWER	AKER MODEL OPS-6030-RS	FLOOR	1/2" 1/2" 2"	SEE PLANS	PROVIDE PAN WITH BARRIER FREE, COLLAPSIBLE 1" HIGH THRESHOLD AND DRAIN. CAPSTONE MODEL 40124 COMPLETE ADA SHOWER SYSTEM WITH HANDHELD SHOWER AND SLIDE BAR, HOSE, CONTROL VALVE WITH INTEGRAL STOPS AND TEMPERATURE LIMIT SET AT 120°F (1.5 GPM)
SK-1	SINK	ELKAY / ELUH1616	COUNTER	1/2" 1/2" 2"	SEE PLANS	PROVIDE WITH GRID STYLE DRAIN, ELKAY MODEL LKPDVR188. PROVIDE WITH DELTA, MODEL 198022-CZ-DST FAUCET, 1.8 GPM.
SK-2	SINK	ELKAY / D117193	COUNTER	1/2" 1/2" 2"	SEE PLANS	PROVIDE WITH GRID STYLE DRAIN, ELKAY MODEL LKPDVR188. PROVIDE WITH DELTA, MODEL 198022-CZ-DST FAUCET, 1.8 GPM.
WC-1	WATER CLOSET	KOHLER / 4199	FLOOR	1/2" --- 4"	SEE PLANS	COMPLETE TANK TYPE TOILET (1.28 GPF). PROVIDE WITH KOHLER K-4636-0 SEAT.
WMB	WASHING MACHINE BOX	OATEY / 37357	WALL	1/2" 1/2" 2"	SEE PLANS	FIRE RATED WASHING MACHINE SUPPLY BOX WITH QUARTER-TURN STOP VALVES AND INTEGRAL WATER HAMMER ARRESTORS. OATEY MODEL 3769D TO BE USED IN LIEU OF MODEL SPECIFIED FOR ANY WMB INSTALLED IN NON FIRE-RATED ASSEMBLIES.

WATERFORD CAMPUS - ASSISTED LIVING
MEMORY CARE BUILDING
601 UNIVERSE BLVD JUNO BEACH, FL 33048



COPYRIGHT 2017
THOMPSON HANCOCK
WITTE & ASSOCIATES, INC.

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

CONSTRUCTION DOCUMENTS

Project No.: 2021009
Date: 12/01/2025



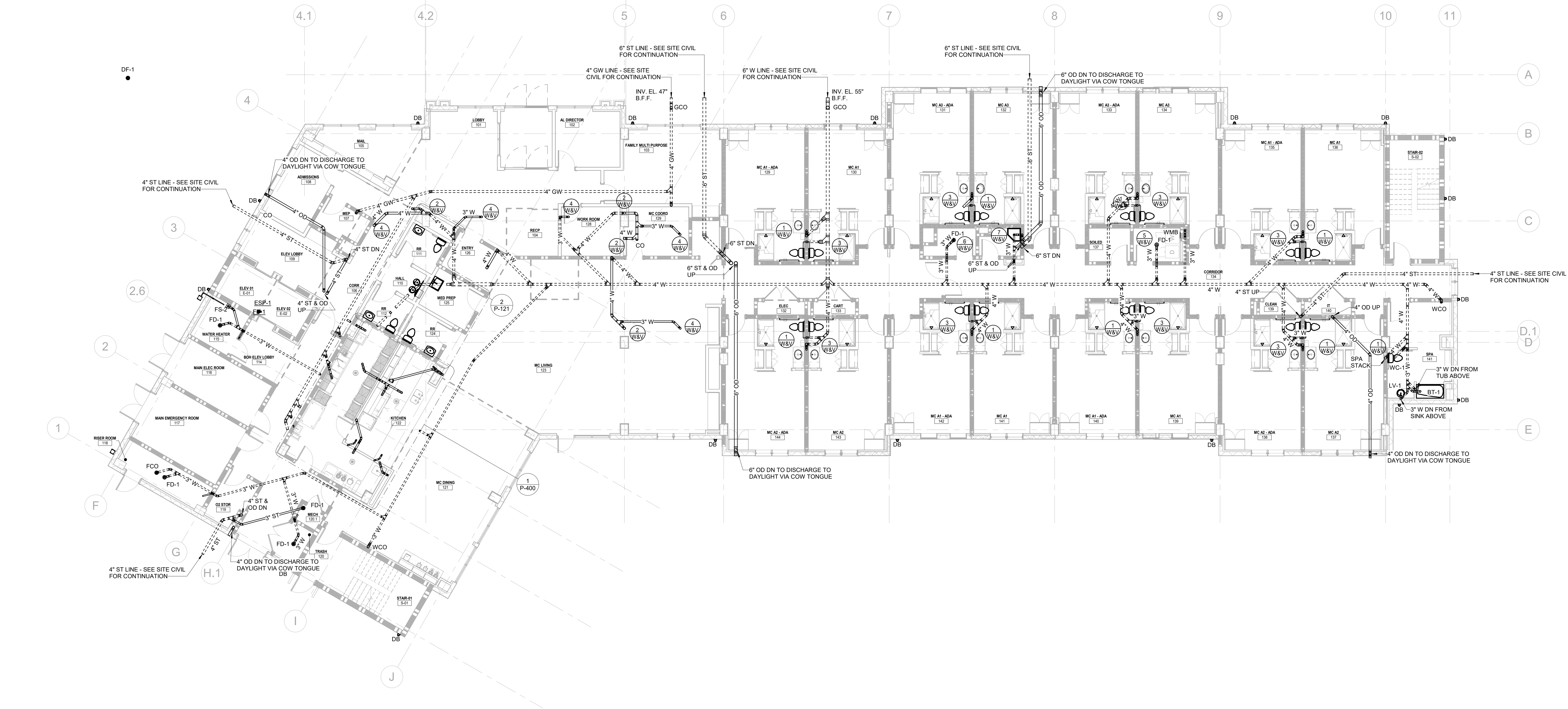
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

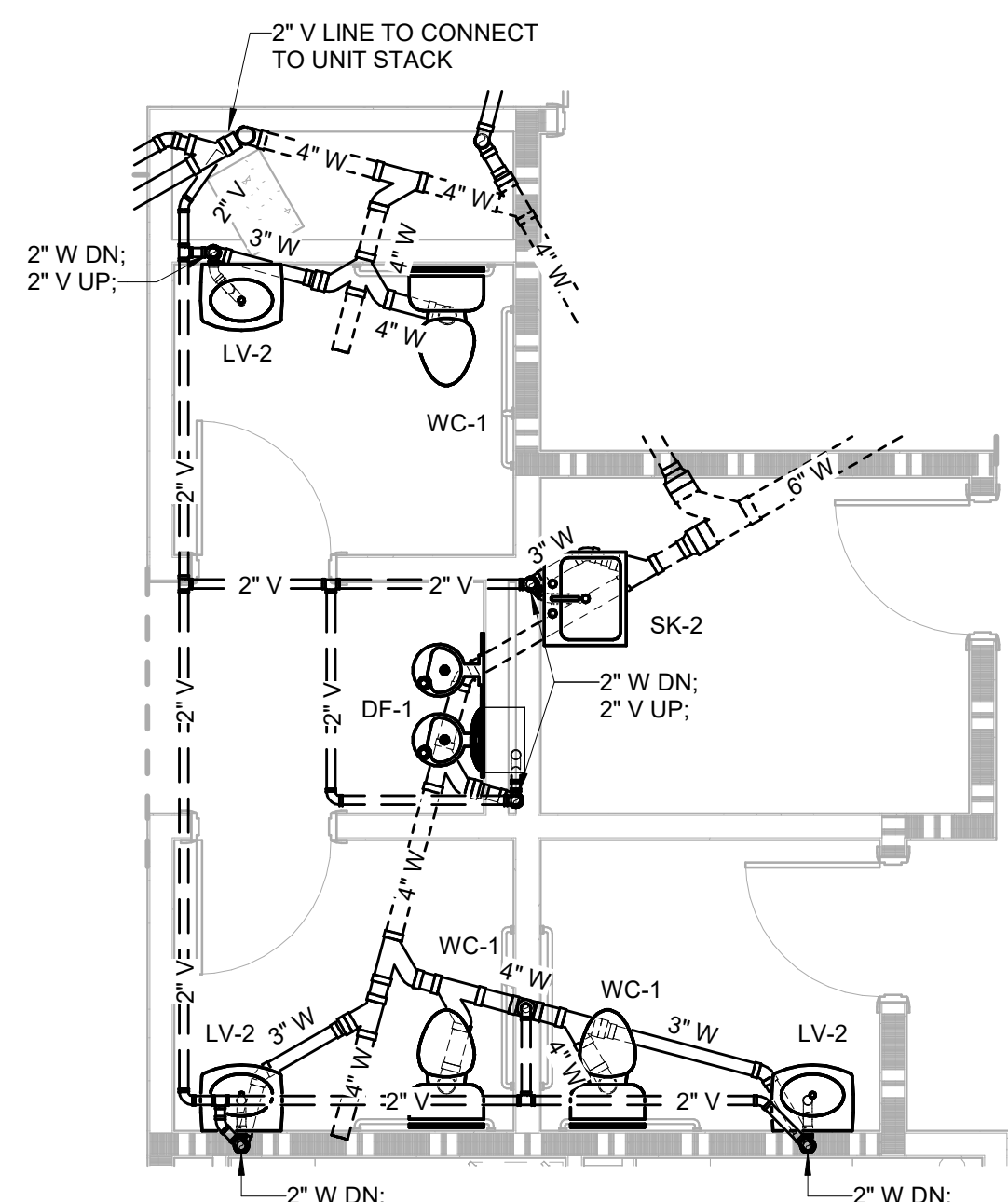
PLUMBING
GENERAL

P-001

Autodesk Docs://MCP - Stage 2 - MC_AL_LU/2024-03276 - MEP - MC-AL.rvt



1 SANITARY PLAN - FIRST FLOOR
P-121 1/8" = 1'-0"



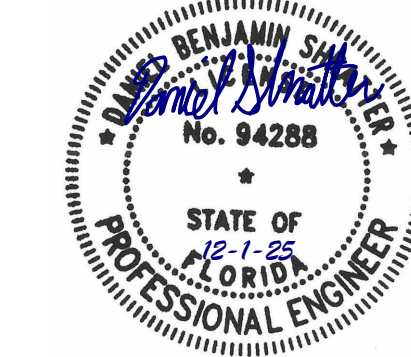
2 SANITARY PLAN - FIRST FLOOR - RESTROOMS & MED PREP
P-121 1/4" = 1'-0"

Salas O'Brien

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

WATERFORD CAMPUS - ASSISTED LIVING
MEMORY CARE BUILDING
601 UNIVERSE BLVD JUNO BEACH, FL 33048



COPYRIGHT 2017
THOMPSON HANCOCK
WITTE & ASSOCIATES, INC.

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

CONSTRUCTION
DOCUMENTS

Project No.: 2021009
Date: 12/01/2025

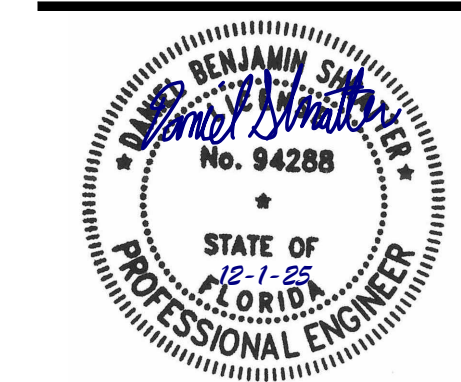
SANITARY PLAN
- FIRST FLOOR

P-121

12/2/2025 5:44:30 AM

NO.	DATE	DESCRIPTION
-----	------	-------------

**WATERFORD CAMPUS - ASSISTED LIVING
MEMORY CARE BUILDING**
601 UNIVERSE BLVD JUNO BEACH , FL 33048



COPYRIGHT 2017
THOMPSON HANCOCK
WITTE & ASSOCIATES, INC.

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

CONSTRUCTION
DOCUMENTS

Project No.: 2021009
Date: 12/01/2025

SANITARY PLAN
- SECOND
FLOOR

P-122

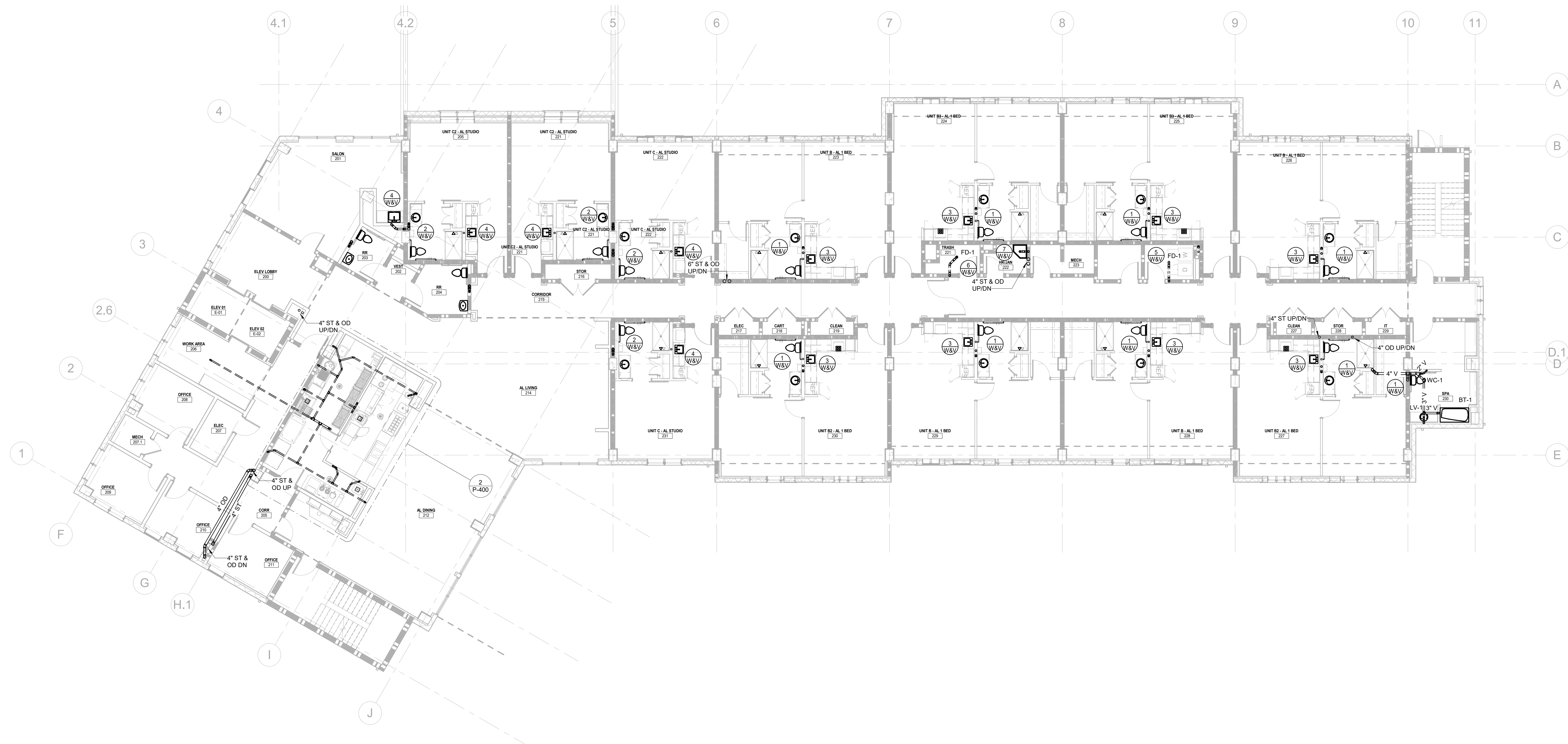


salasobrien.com

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

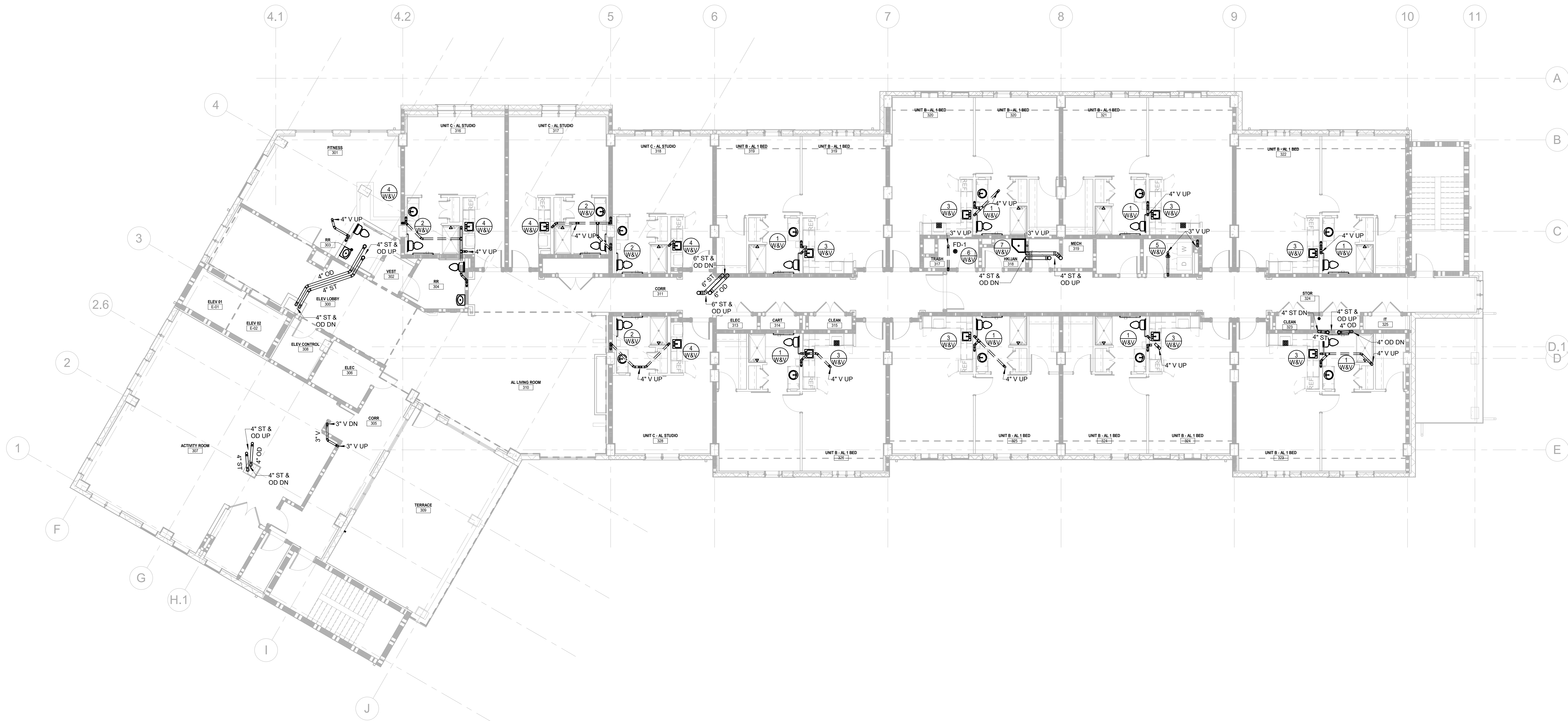
12/2/2025 5:44:36 AM



1 SANITARY PLAN - SECOND FLOOR
P-122 1/8" = 1'-0"

Autodesk Docs://MCP - Stage 2 - MC_AL_LU/2024-03276 - MEP - MC-AL.rvt

1 SANITARY PLAN - THIRD FLOOR
P-123 1/8" = 1'-0"

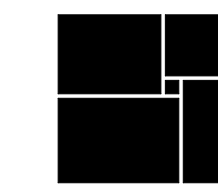


Salas O'Brien

salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

**WATERFORD CAMPUS - ASSISTED LIVING
MEMORY CARE BUILDING**
601 UNIVERSE BLVD JUNO BEACH, FL 33048



**THW
DESIGN**

COPYRIGHT 2017
THOMPSON HANCOCK
WITTE & ASSOCIATES, INC.

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

**CONSTRUCTION
DOCUMENTS**

Project No.: 2021009
Date: 12/01/2025

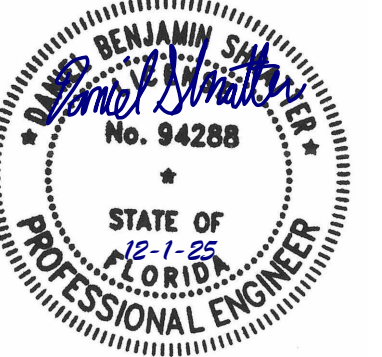
**SANITARY PLAN
- THIRD FLOOR**

P-123

12/2/2025 5:44:41 AM

NO.	DATE	DESCRIPTION
-----	------	-------------

601 UNIVERSE BLVD JUNO BEACH , FL 33048



THW
DESIGN

COPYRIGHT 2017
THOMPSON HANCOCK
ITTE & ASSOCIATES, INC.

00 RiverEdge Parkw
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

CONSTRUCTION
DOCUMENTS

Project No.: 2021
Date: 12/01/2021

ANITARY PL
ROOF FLOC

P-124



salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

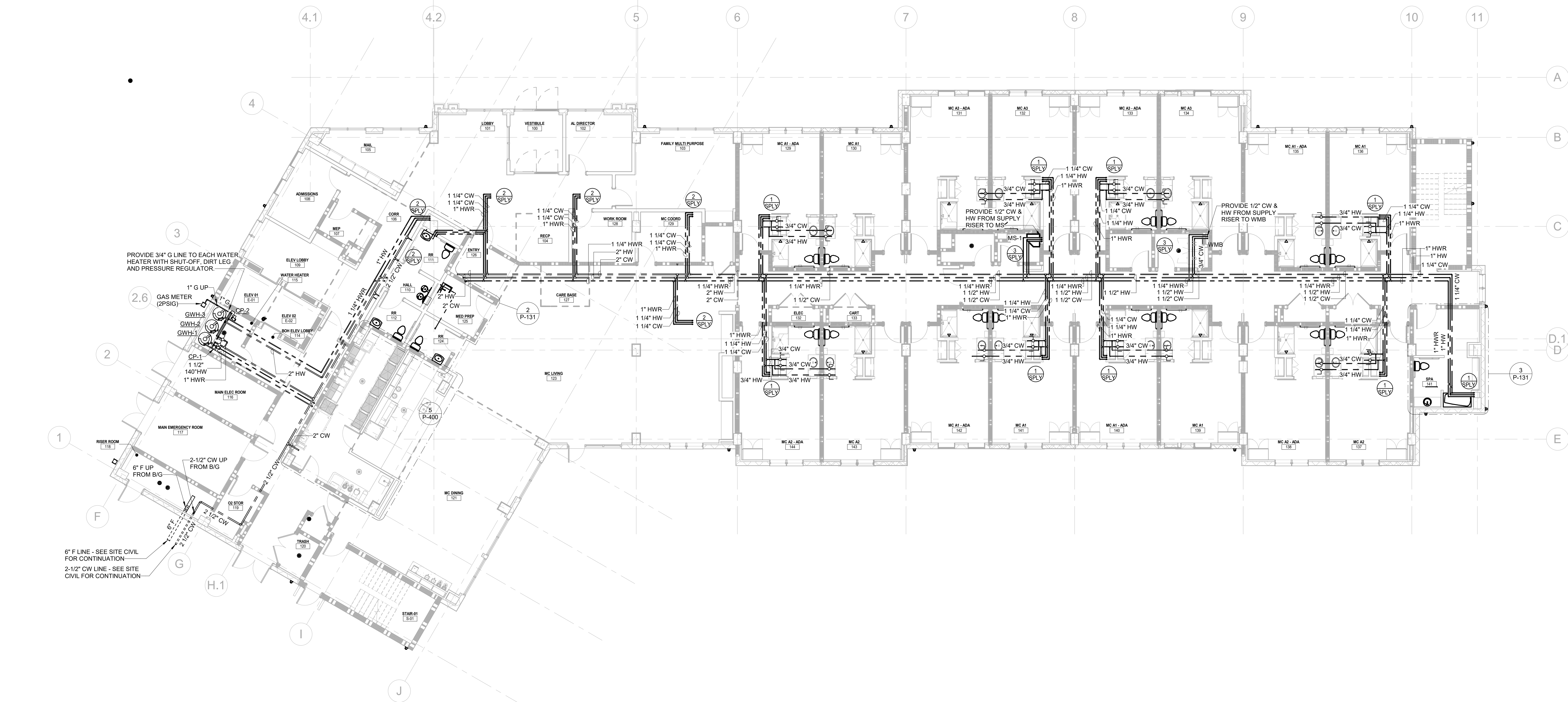
Project Number: 2024-03270

12/2/2025 5:44:43 AM

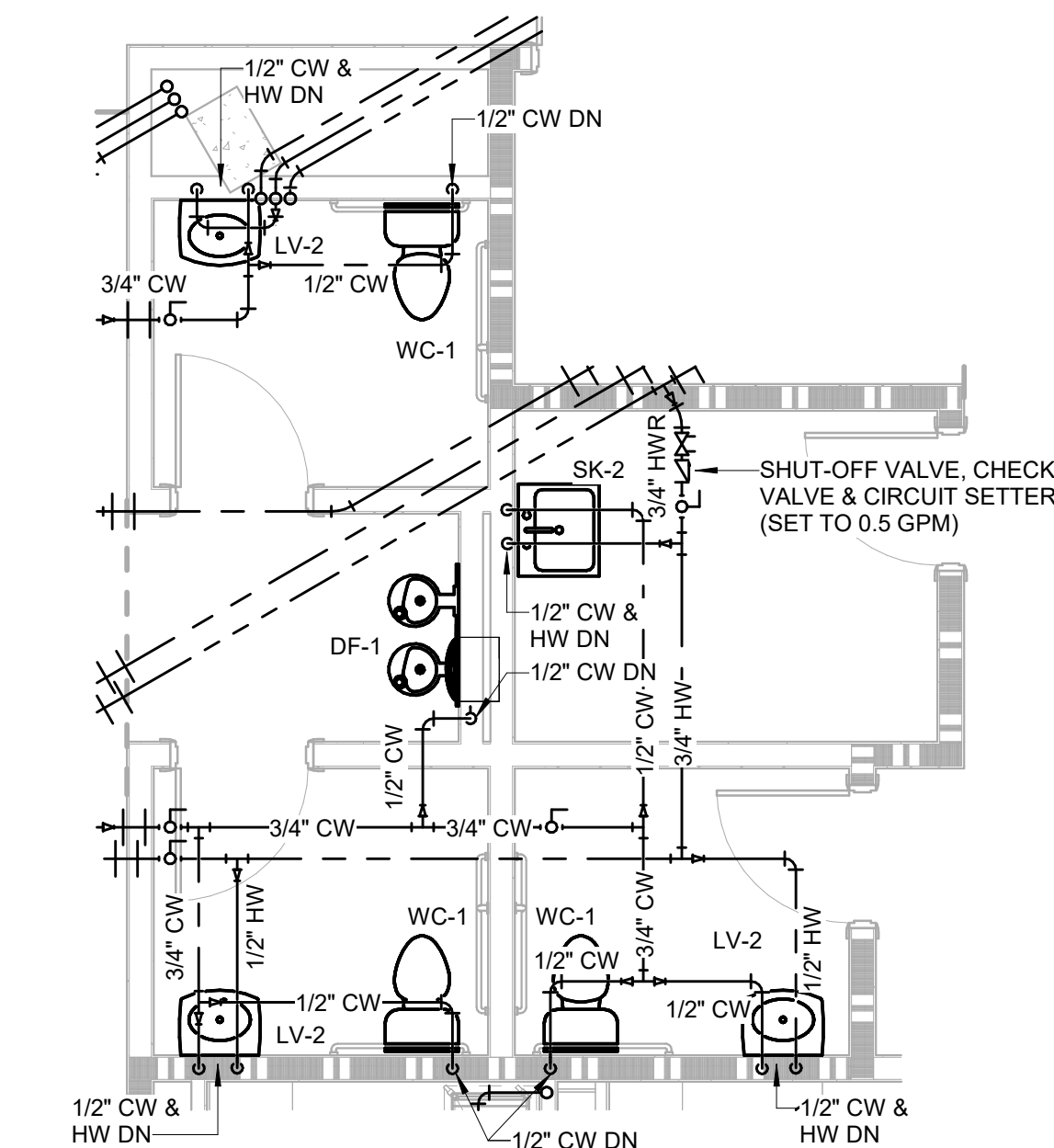
1 SANITARY PLAN - ROOF FLOOR
P-124 1/8" = 1'-0"

Autodesk Docs://WCR - Stage 2 - MC AL IL/2024-03276 - MEP - MC-AL.rvt

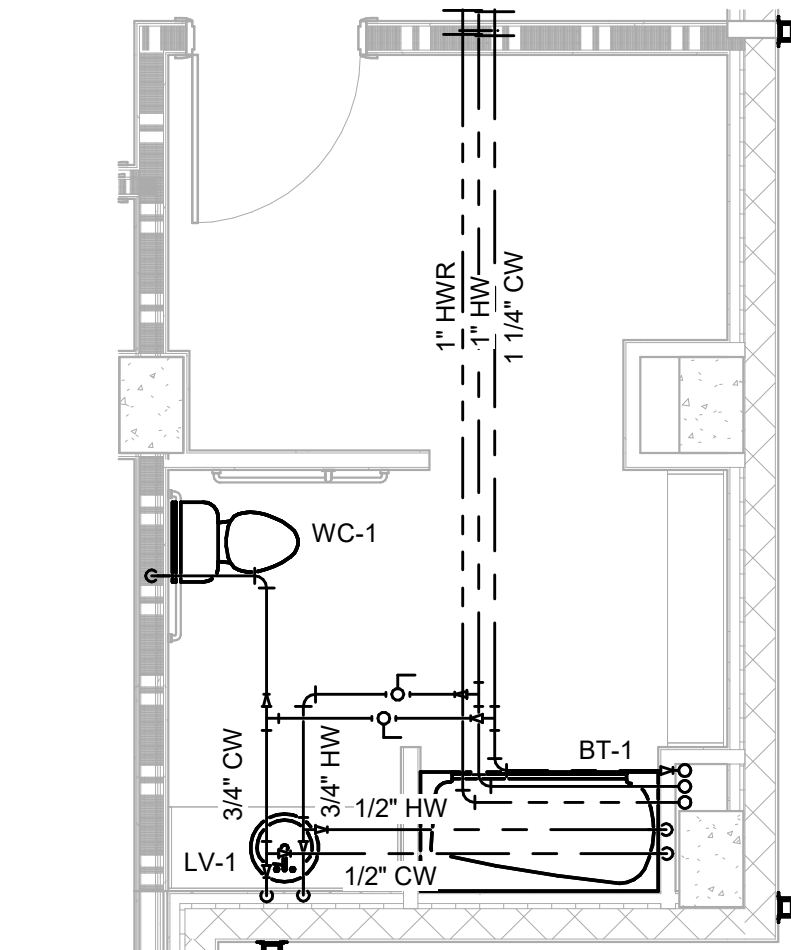
Autodesk Docs://MCH - Stage 2 - MC_AL_L/2024-03276 - MEP - MC-AL.rvt



1 SUPPLY PLAN - FIRST FLOOR
P-131/ 1/8" = 1'-0"



2 SUPPLY PLAN - FIRST FLOOR - RR (111, 112 & 124)
P-131/ 1/4" = 1'-0"



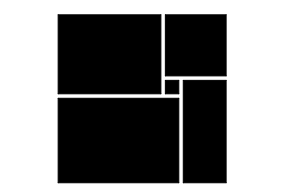
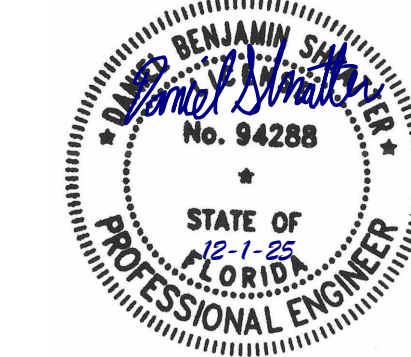
3 SUPPLY PLAN - SPA
P-131/ 1/4" = 1'-0" (SECOND FLOOR TYPICAL)

Salas O'Brien

Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

WATERFORD CAMPUS - ASSISTED LIVING
MEMORY CARE BUILDING
601 UNIVERSE BLVD JUNO BEACH, FL 33048



THW
DESIGN

COPYRIGHT 2017
THOMPSON HANCOCK
WITTE & ASSOCIATES, INC.

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

CONSTRUCTION
DOCUMENTS

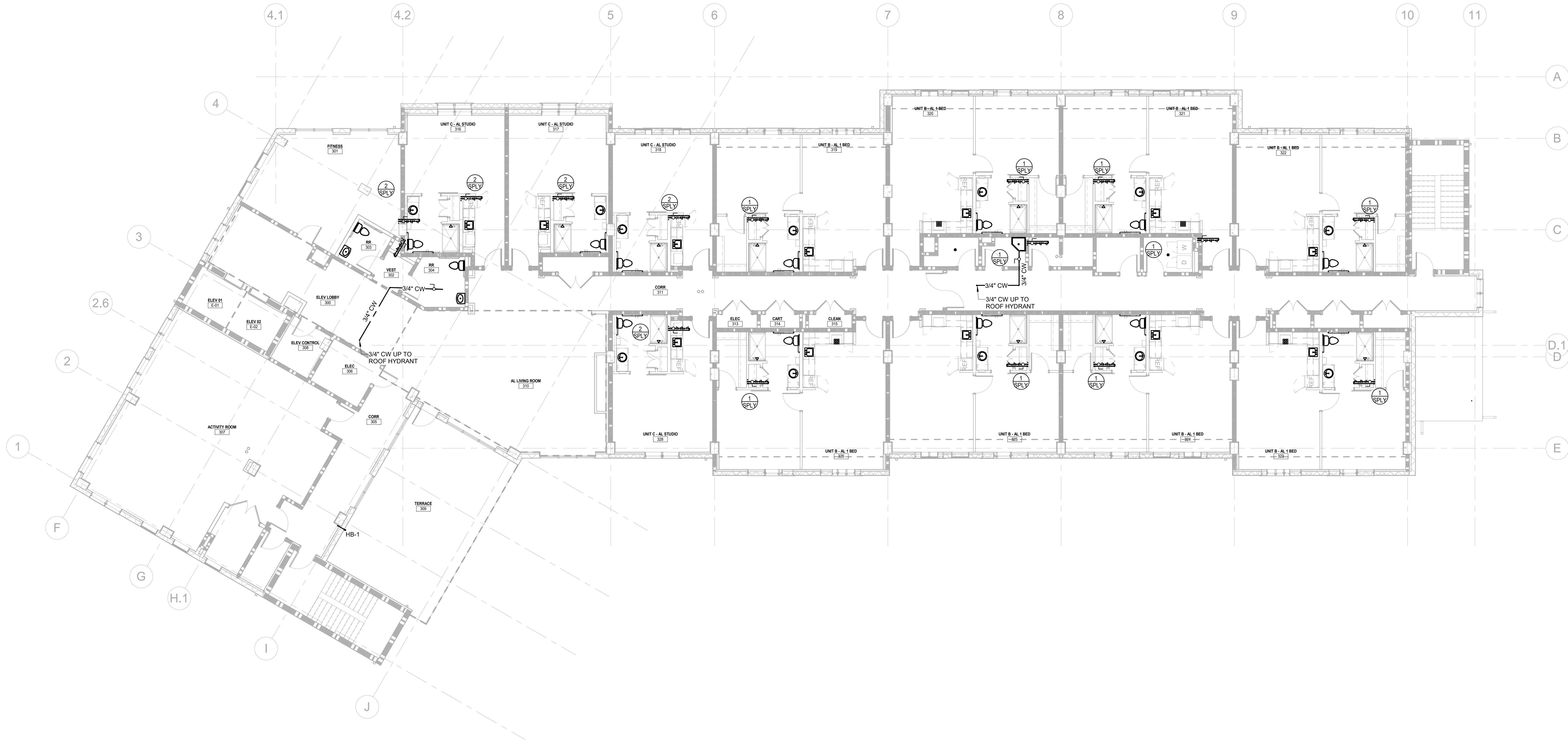
Project No.: 2021009
Date: 12/01/2025

SUPPLY PLAN -
FIRST FLOOR

P-131

12/2/2025 5:44:48 AM

Autodesk Docs://MCP - Stage 2 - MC_AL_LU/2024-03276 - MEP - MC-AL.rvt



1 SUPPLY PLAN - THIRD FLOOR
P-133 1/8" = 1'-0"

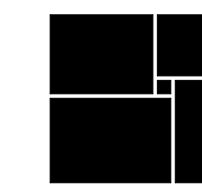
Salas O'Brien

salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

12/2/2025 5:44:58 AM

**WATERFORD CAMPUS - ASSISTED LIVING
MEMORY CARE BUILDING**
601 UNIVERSE BLVD JUNO BEACH, FL 33048



THW
DESIGN

COPYRIGHT 2017
THOMPSON HANCOCK
WITTE & ASSOCIATES, INC.

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

**CONSTRUCTION
DOCUMENTS**

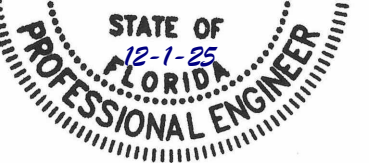
Project No.: 2021009
Date: 12/01/2025

**SUPPLY PLAN -
THIRD FLOOR**

P-133

O.	DATE	DESCRIPTION
----	------	-------------

601 UNIVERSE BLVD JUNO BEACH, FL 33048



00 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

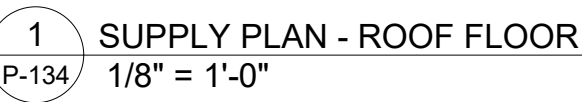
www.thw.com

Project No.: 2021009
 Date: 12/01/2025

P-134



2/2/2025 5:45:00 AM

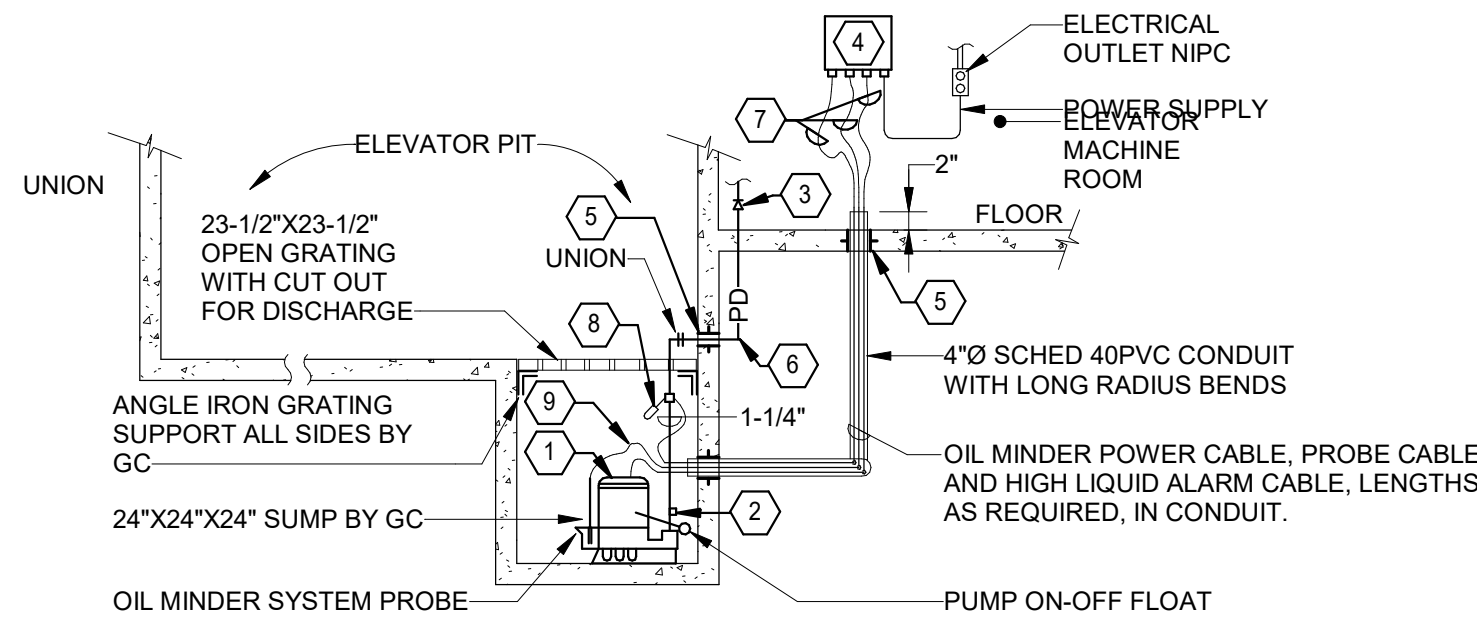


Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

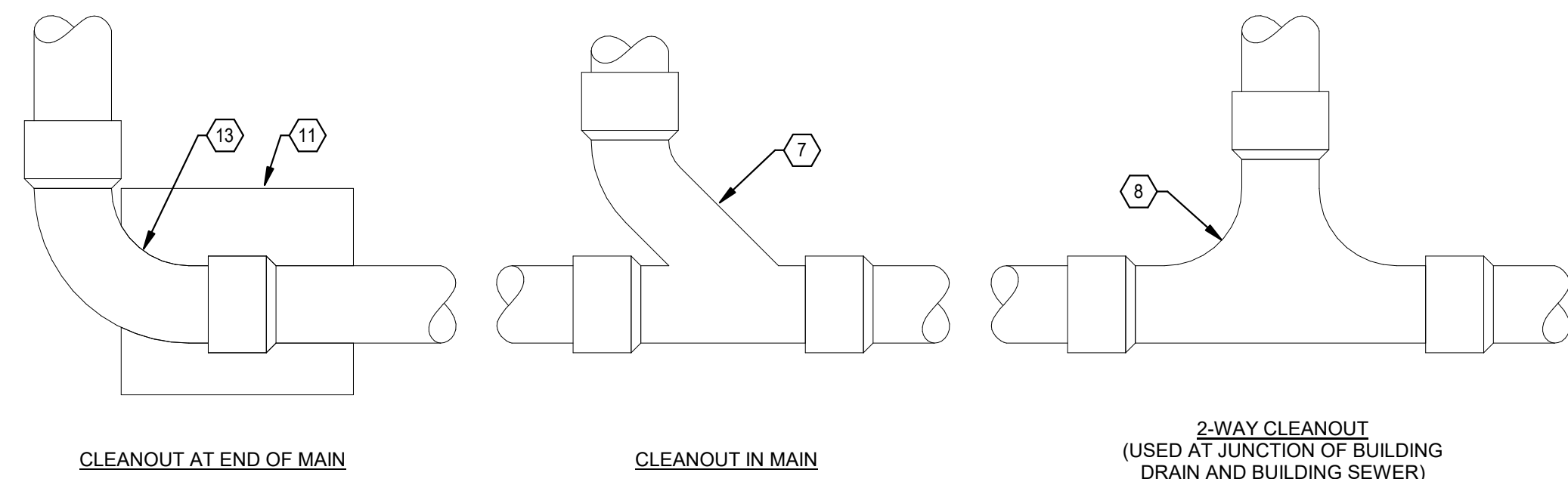
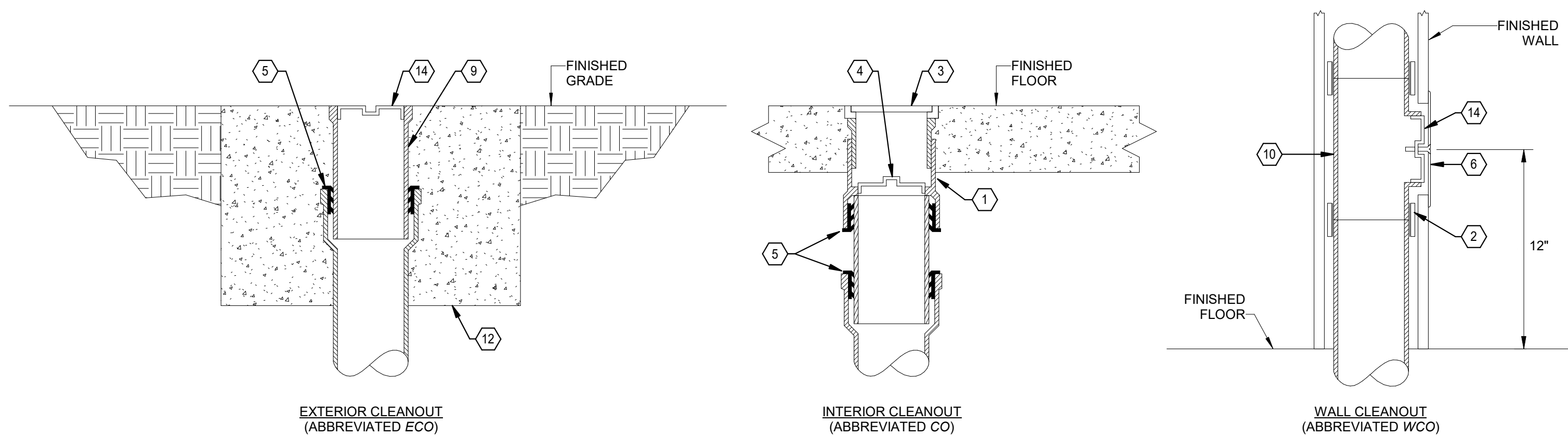
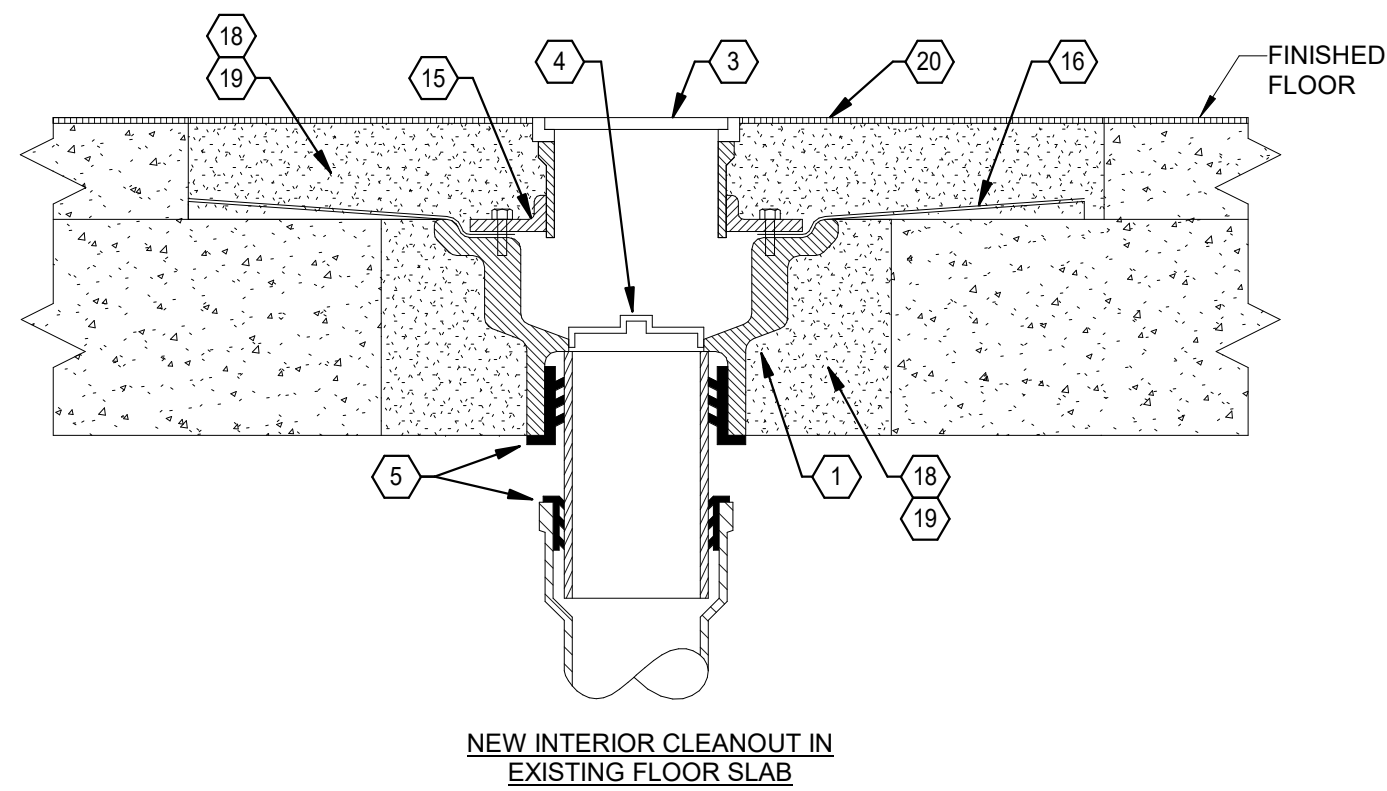
2/2/2025 5:45:00 AM

Autodesk Docs://MCP - Stage 2 - MC_AL_L/2024-03276 - MEP - MC-AL.rvt

- 1 STANCOR MODEL SE50 SUBMERSIBLE EFFLUENT PUMP, 0.4HP, 115 VOLTS, 3600 RPM, 2" DISCHARGE CONNECTION WITH 2" X 1 1/4" REDUCER, 20' TDH @ 7.5GPM, BLEED HOLE 3/16".
- 2 STANCOR REFLUX CHECK VALVE.
- 3 STANCOR OIL MINDER 115V/1PH CONTROL SYSTEM WITH OPTIONAL BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION.
- 4
- 5 WATER-TIGHT SLEEVE.
- 6 ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
- 7 OIL MINDER POWER CABLE, PROBE CABLE AND HIGH LIQUID ALARM CABLE.
- 8 HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
- 9 PROVIDE A MINIMUM OF 5 FEET EXTRA OF EACH CABLE (SLACK) ROLLED AND CLAMPED TO THE DISCHARGE PIPE TO ALLOW FOR THE REMOVAL OF THE PUMP FROM THE PIT.



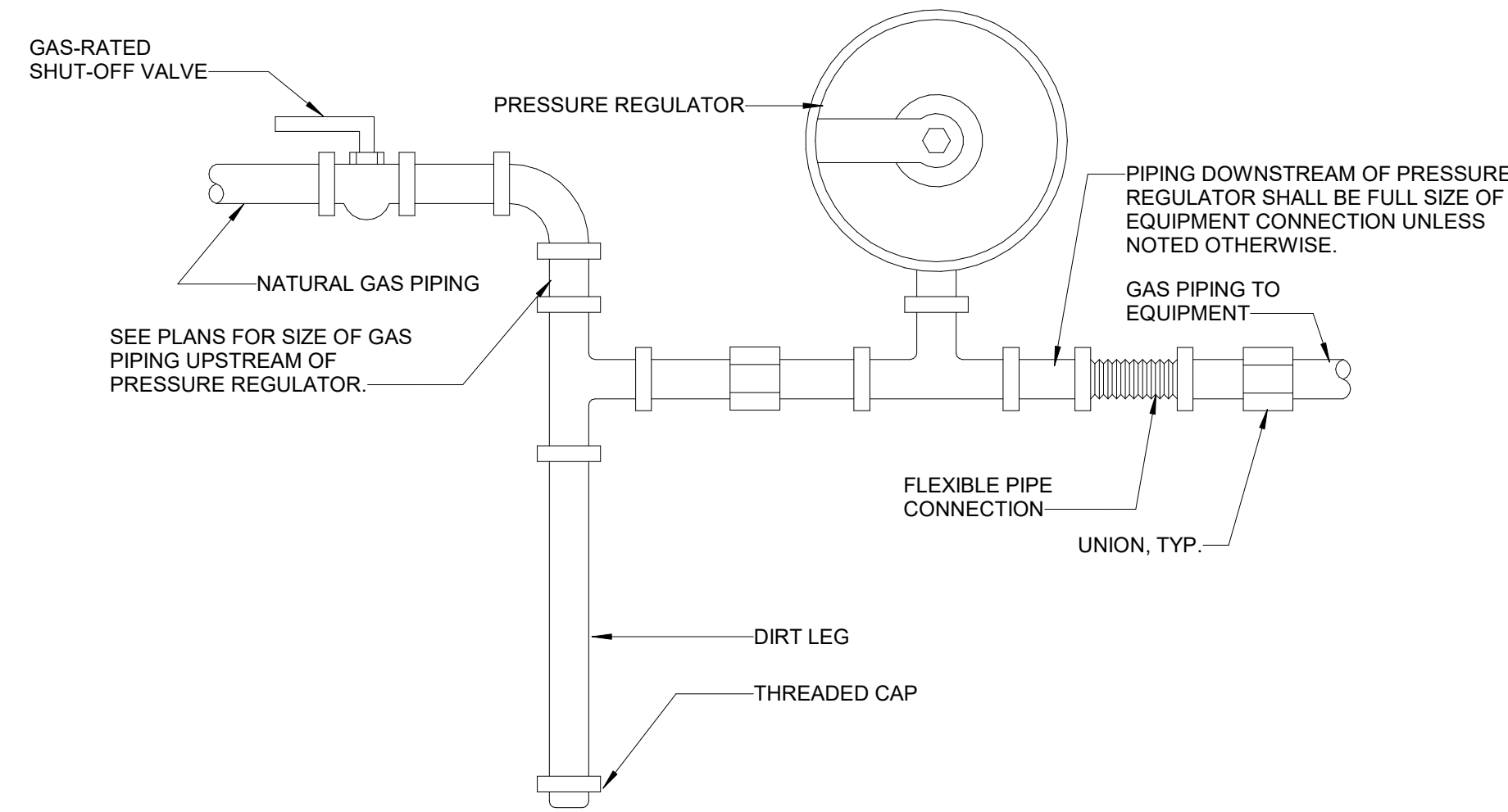
1 ELEVATOR SUMP PUMP DETAIL
P-600 NOT TO SCALE



KEY NOTES: (THIS DETAIL ONLY)

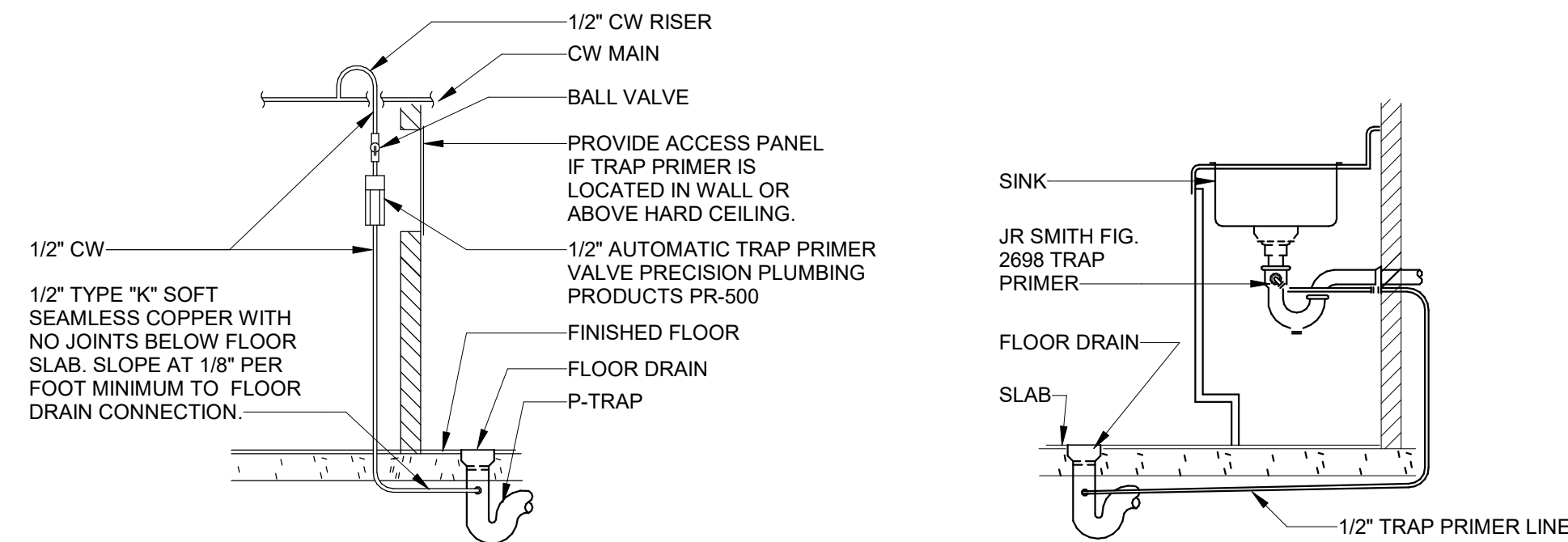
- 1 CAST IRON 2-PIECE CLEANOUT BODY WITH ADJUSTABLE HEAD.
- 2 NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
- 3 POLISHED NICKEL BRONZE SCORIATED TOP (PROVIDE CARPET MARKER FOR CARPETED FLOORS).
- 4 BRONZE TAPERED THREAD, RAISED HEAD CLEANOUT PLUG.
- 5 PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET.
- 6 STAINLESS STEEL ROUND WALL ACCESS COVER.
- 7 COMBINATION WYE AND EIGHTH BEND FITTING.
- 8 TWO-WAY CLEANOUT FITTING.
- 9 CAST IRON CLEANOUT FERRULE.
- 10 CAST IRON CLEANOUT TEE.
- 11 12" x 12" x 12" CONCRETE THRUST BLOCK.
- 12 24" x 24" x 12" CONCRETE PAD FLUSH WITH GRADE.
- 13 LONG SWEEP ELBOW.
- 14 BRONZE TAPERED THREAD, RECESSED HEAD CLEANOUT PLUG.
- 15 CAST IRON INVERTIBLE CLAMPING COLLAR.
- 16 NEW LEAD PAN FLASHING CLAMPED TIGHTLY TO DRAIN BODY. SEE ARCHITECTURAL PLANS.
- 17 BREAK OUT EXISTING STRUCTURAL CONCRETE FLOOR SLAB.
- 18 CUT TOPPING MINIMUM 12" BEYOND BROKEN-OUT STRUCTURAL FLOOR SLAB TO NEAREST FLOOR TILE JOINT TO ALLOW FOR INSTALLATION OF NEW LEAD PAN FLASHING.
- 19 GROUT SOLID AROUND NEW FLOOR DRAIN.
- 20 NEW FLOOR FINISH TO MATCH EXISTING.

3 MULTIPLE CLEANOUT DETAIL
P-600 NOT TO SCALE



- NOTES:
1. PRESSURE REGULATING VALVE VENT SHALL EXTEND TO BUILDING EXTERIOR OR HAVE VENT LIMITING MEANS.

2 GAS PIPING DETAIL (PLUMBING)
P-600 NOT TO SCALE

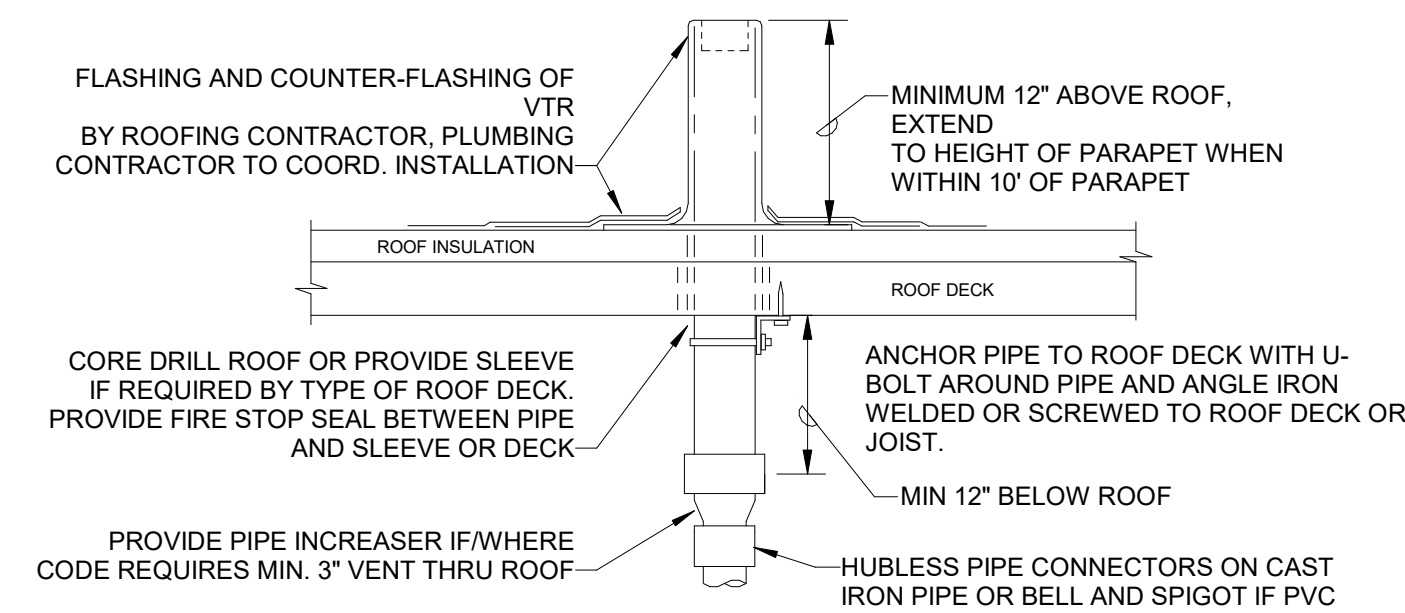


AUTOMATIC TRAP PRIMER

WATER SAVER TRAP PRIMER

- NOTES:
1. ALL FLOOR DRAINS SHALL HAVE A TRAP PRIMER. USE AUTOMATIC TRAP PRIMERS OR WATER SAVER TRAP PRIMERS PER DETAILS ON THIS SHEET.

4 TRAP PRIMER DETAIL
P-600 NOT TO SCALE



5 VENT THRU ROOF DETAIL
P-600 NOT TO SCALE

WATERFORD CAMPUS - ASSISTED LIVING
MEMORY CARE BUILDING
601 UNIVERSE BLVD JUNO BEACH, FL 33048



COPYRIGHT 2017
THOMPSON HANCOCK
WITTE & ASSOCIATES, INC.

2100 RiverEdge Parkway
Suite 900
Atlanta, GA 30328

PH: 770 916 2220
FAX: 770 916 2299

www.thw.com

CONSTRUCTION
DOCUMENTS

Project No.: 2021009
Date: 12/01/25

PLUMBING
DETAILS

P-600



salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

12/2/2025 5:45:12 AM