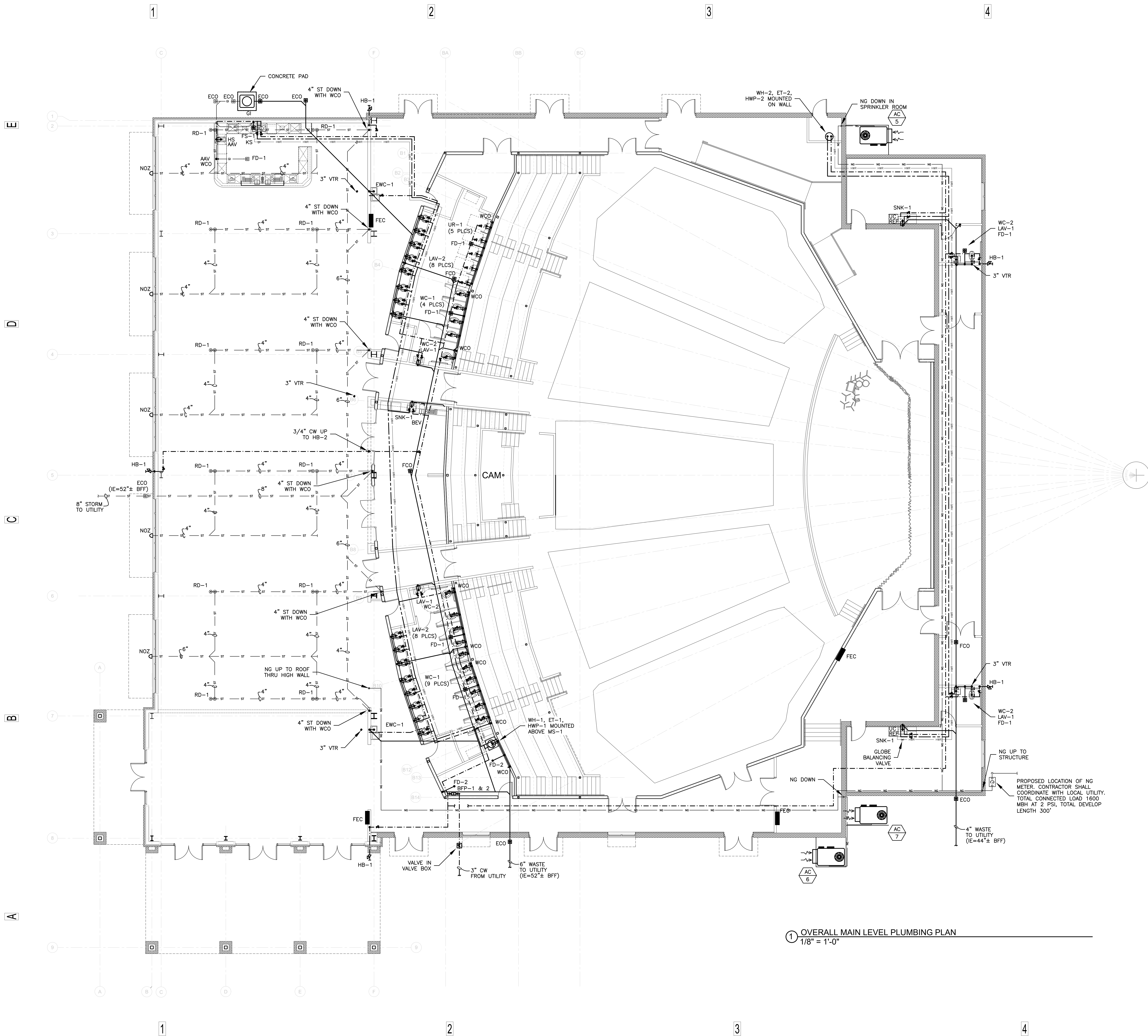




1 OVERALL MAIN LEVEL PLUMBING PLAN
1/8" = 1'-0"



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OLG
Engineering, Inc.

301 Industrial Blvd.
Tulahoma, TN 37389
Office: 931.454.9940
2605 Elm Hill Pk/St C
Nashville, TN 37214
Office: 615.678.6022
olengineering.com
OLG Project # 81524



332 Azalea Drive
Panama City Beach
Florida 32413
423.509.1681 T
kevin@kevincgoins.com Email
www.kevincgoins.com Website

Kevin C. Goins
ARCHITECT, AIA

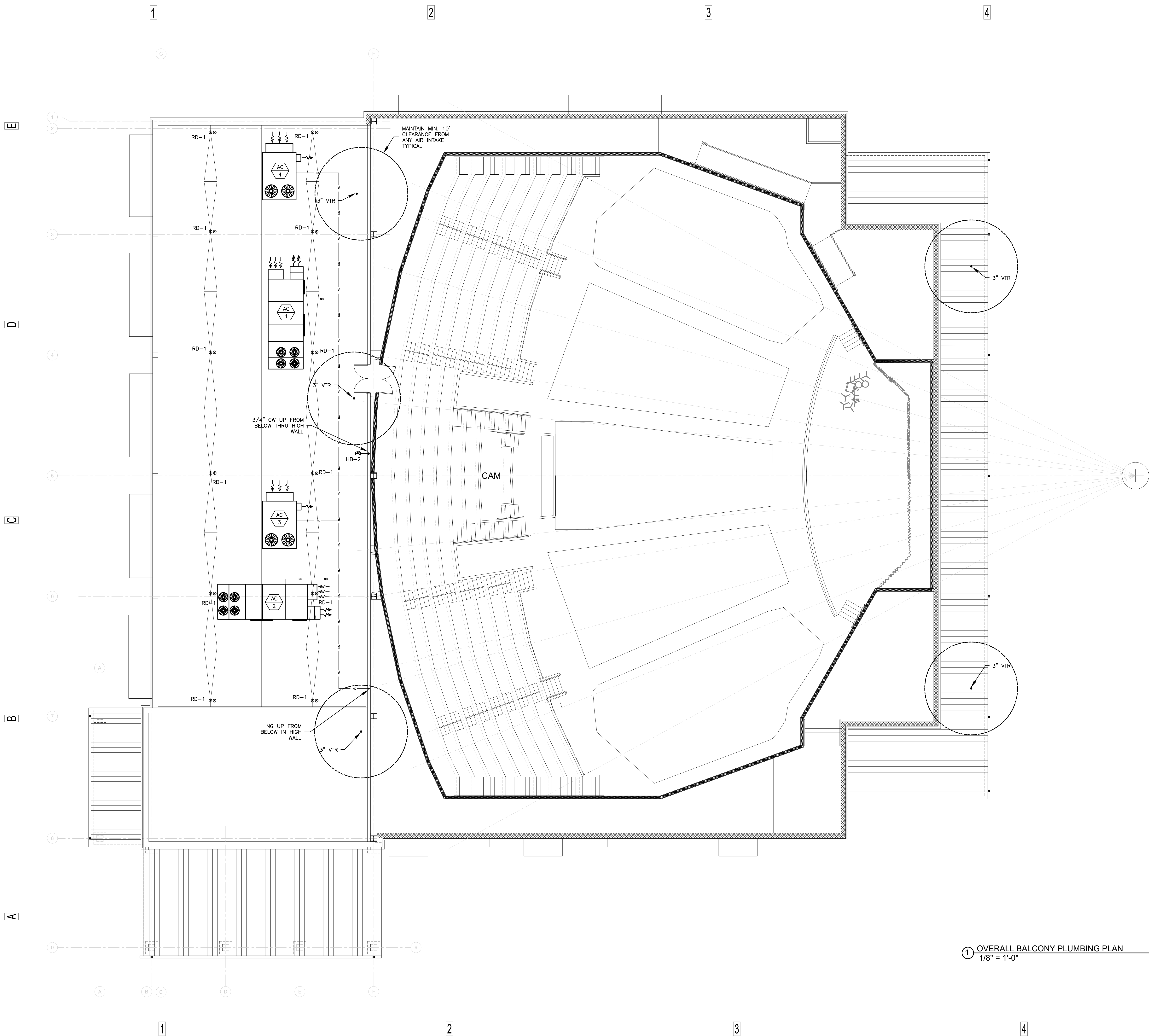
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Project Number: 2307
OVERALL MAIN LEVEL
SHEET TITLE: PLUMBING PLAN

P1-0



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2605 Elm Hill Pk/St C
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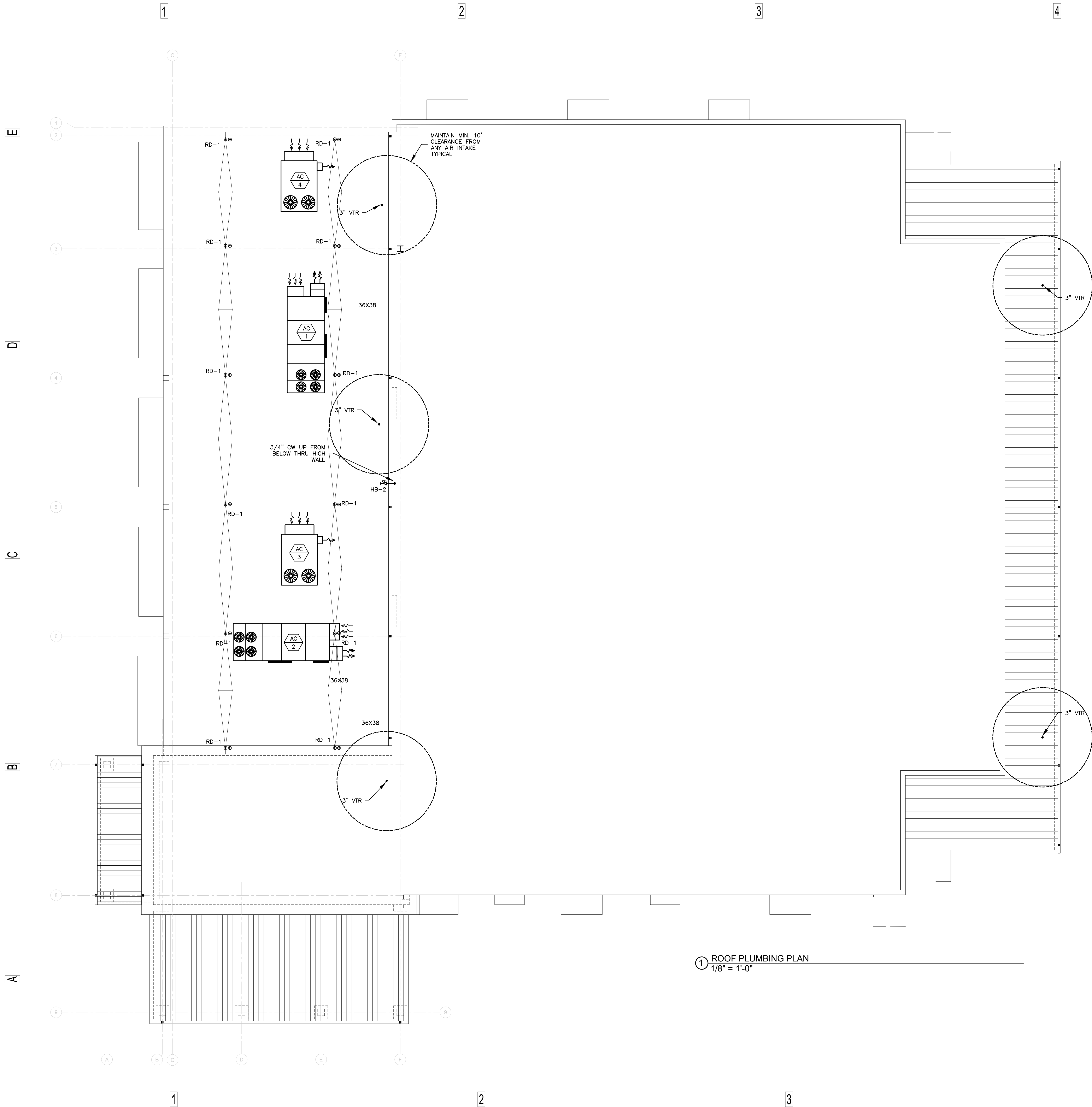
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ARCHITECT, AIA

Laguna Christian Camp
Promise Land Chapel
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① OVERALL BALCONY PLUMBING PLAN
1/8" = 1'-0"

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OVERALL BALCONY	
SHEET TITLE: PLUMBING PLAN	



① ROOF PLUMBING PLAN
1/8" = 1'-0"



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301 Industrial Blvd.
Tullahoma, TN 37389
Office: 931.454.9940
2605 Elm Hill Pk/St C
Nashville, TN 37214
Office: 615.678.6022
olgengineering.com
OLG Project # 81524



332 Azalea Drive
Panama City Beach
Florida 32413
423.509.1681 T
kevin@kevincgoins.com Email
www.kevincgoins.com Website

Kevin C. Goins
ARCHITECT, AIA

Laguna Christian Camp
Promise Land Chapel
Panama City Beach
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ROOF PLUMBING
SHEET TITLE: PLAN



332 Azalea Drive
Panama City Beach
Florida 32413
423.509.1681 T
kevin@kevincgoins.com Email
www.kevincgoins.com Website

Kevin C. Goins
ARCHITECT, AIA

Laguna Christian Camp
Promise Land Chapel
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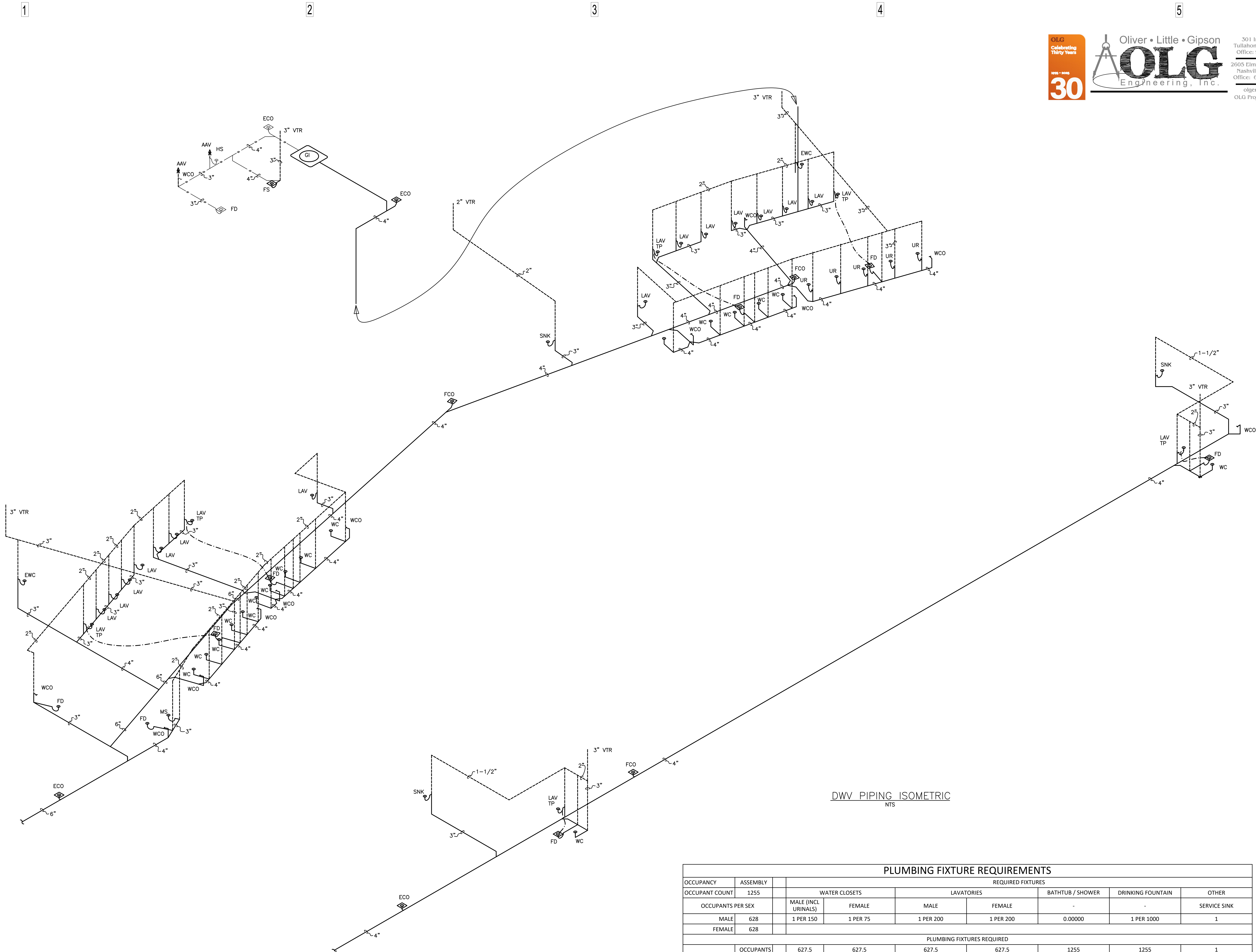
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PLUMBING
SHEET TITLE: ISOMETRICS

P2-0



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OLG
Engineering, Inc.

301 Industrial Blvd.
Tulahoma, TN 37388
Office: 931.454.9940
2605 Elm Hill Pk/St C
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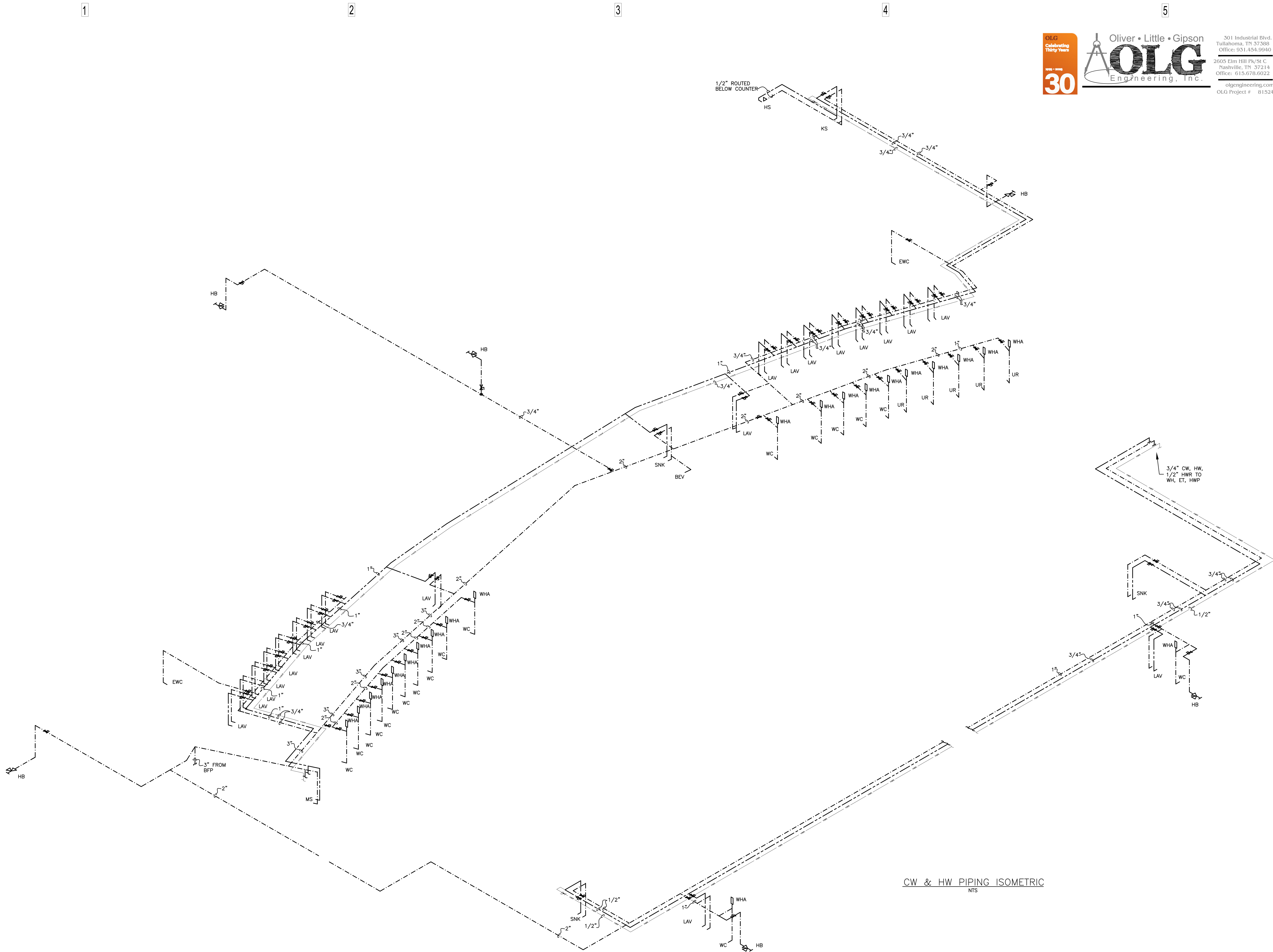
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CW & HW PIPING ISOMETRIC
NTS



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Tulahoma, TN 37388
Office: 931.454.9940
2605 Elm Hill Pk/St C
Nashville, TN 37214
Office: 615.678.6022
olgengineering.com
OLG Project # 81524



332 Azalea Drive
Panama City Beach
Florida 32413
423.509.1681 T
kevin@kevincgoins.com Email
www.kevincgoins.com Website

Kevin C. Goins
ARCHITECT, AIA

Laguna Christian Camp
Promise Land Chapel
Panama City Beach
Panama City Beach, Florida 32407

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SHEET TITLE: ISOMETRICS

P2-1

1

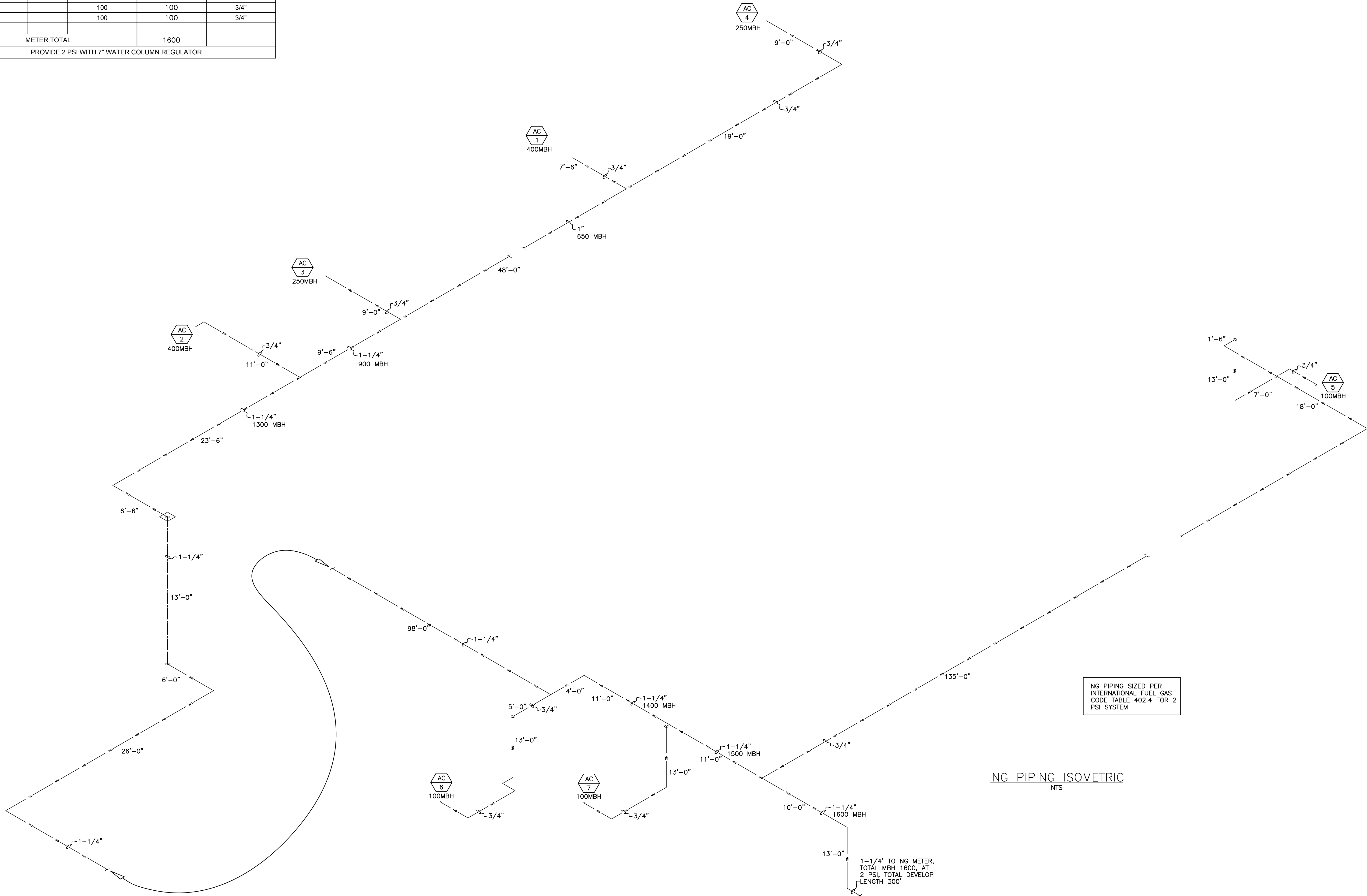
2

3

4

5

GAS REGULATOR				
EQUIPMENT NO.		BRANCH LOAD (MBH)	REGULATOR INPUT (MBH)	MINIMUM PIPE SIZE AT 2 PSI
AC-1		400	400	3/4"
AC-2		400	400	3/4"
AC-3		250	250	3/4"
AC-4		250	250	3/4"
AC-5		100	100	3/4"
AC-6		100	100	3/4"
AC-7		100	100	3/4"
METER TOTAL			1600	
PROVIDE 2 PSI WITH 7" WATER COLUMN REGULATOR				



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Florida 32413
423.509.1681 T
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ARCHITECT, AIA

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P2-2



332 Azalea Drive
Panama City Beach
Florida 32413
423.509.1681 T
kevin@kevingoins.com Email
www.kevingoins.com Website

Kevin C. Goins
ARCHITECT, AIA

Laguna Christian Camp
Promise Land Chapel
Panama City Beach
Panama City Beach, Florida 32407

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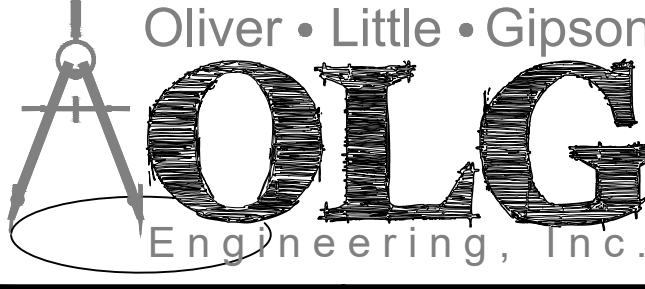
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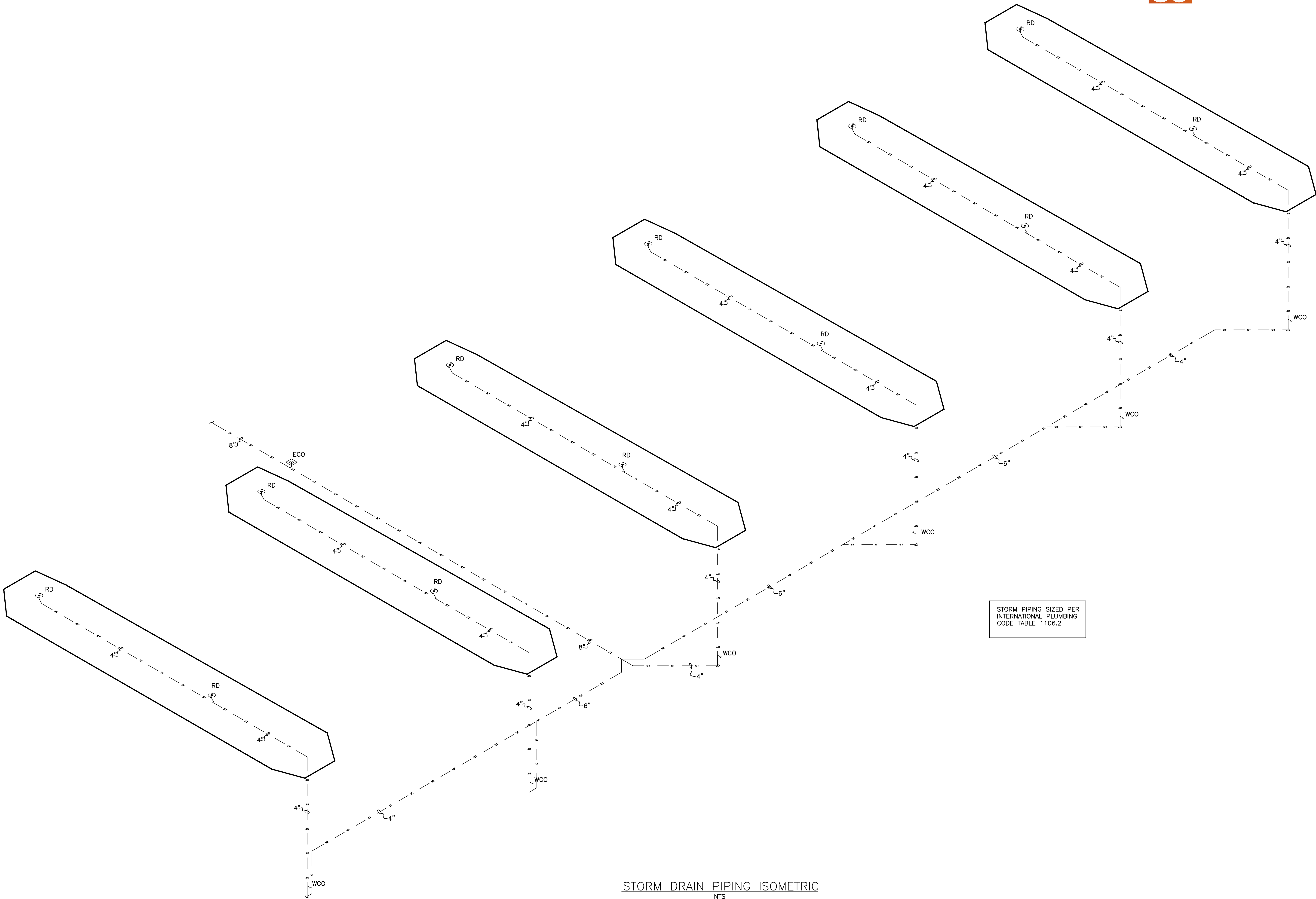


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301 Industrial Blvd.
Tulahoma, TN 37388
Office: 931.454.9940

2605 Elm Hill Pk/St C
Nashville, TN 37214
Office: 615.678.6022

olgengineering.com
OLG Project # 81524





332 Azalea Drive
Panama City Beach
Florida 32413
423.509.1681 T
kevin@kevingoins.com Email
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Kevin C. Goins
ARCHITECT, AIA

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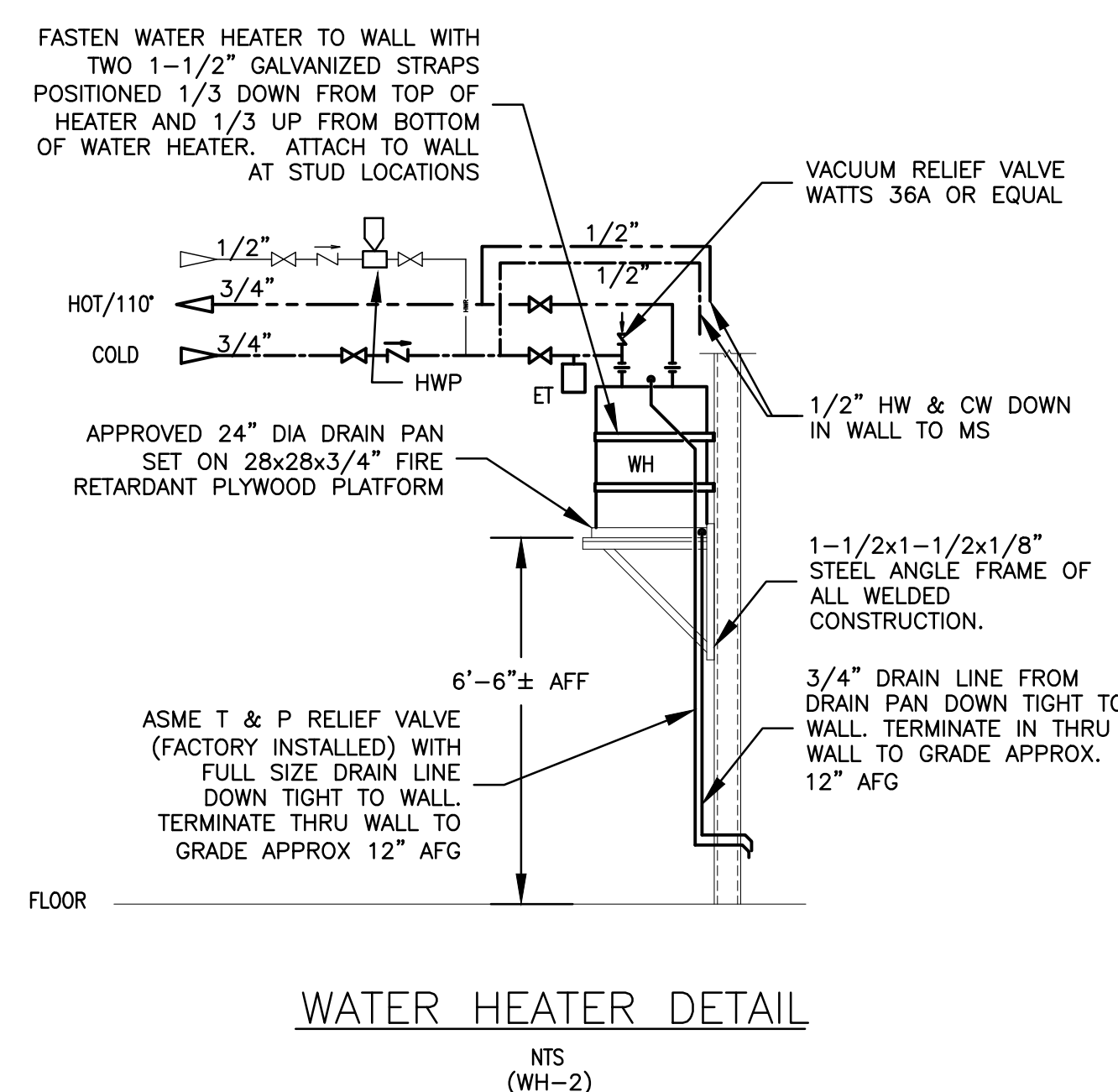
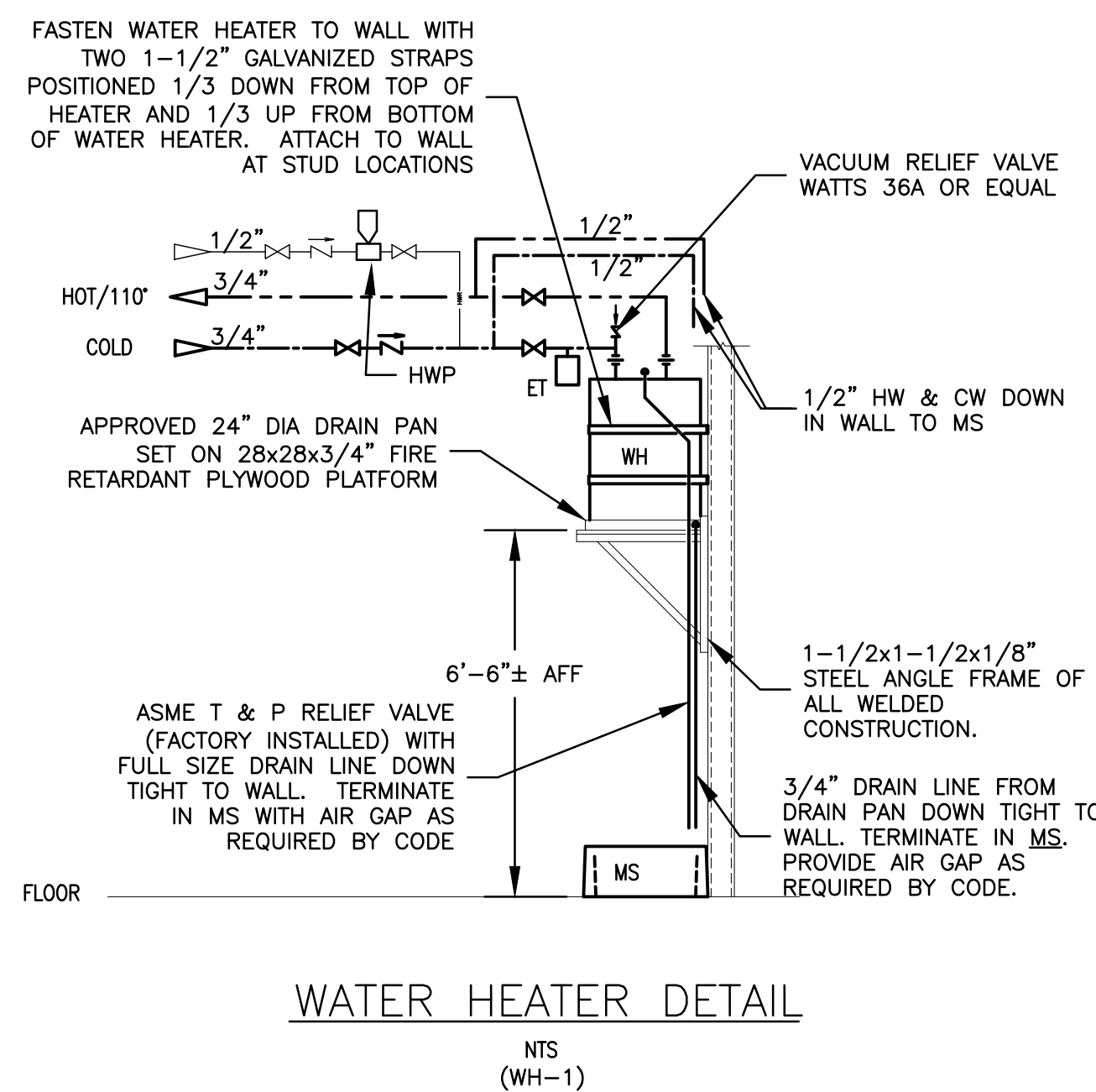
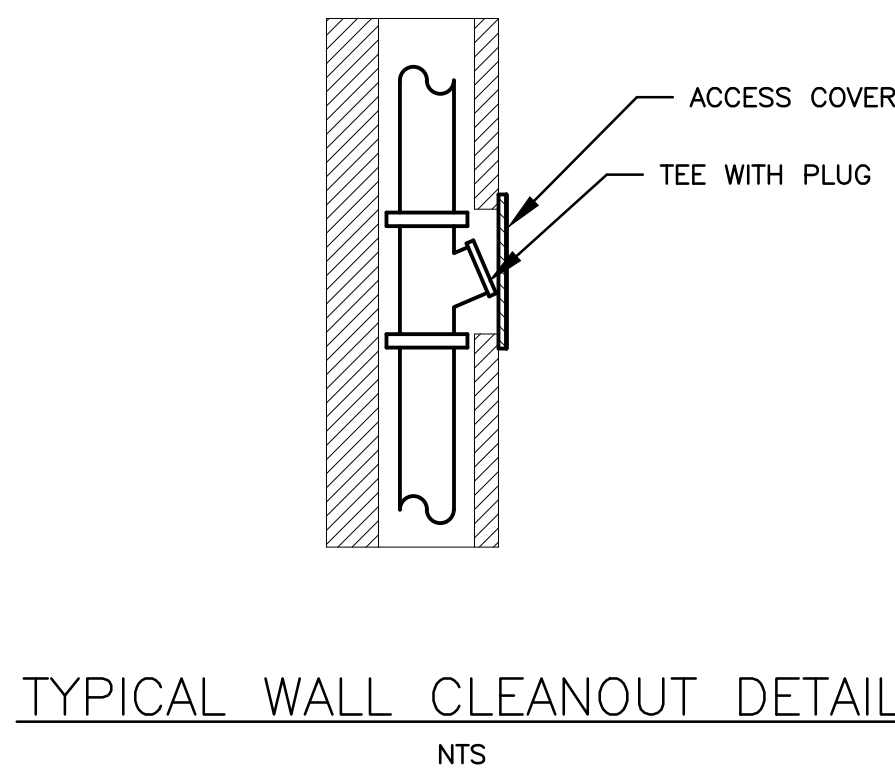
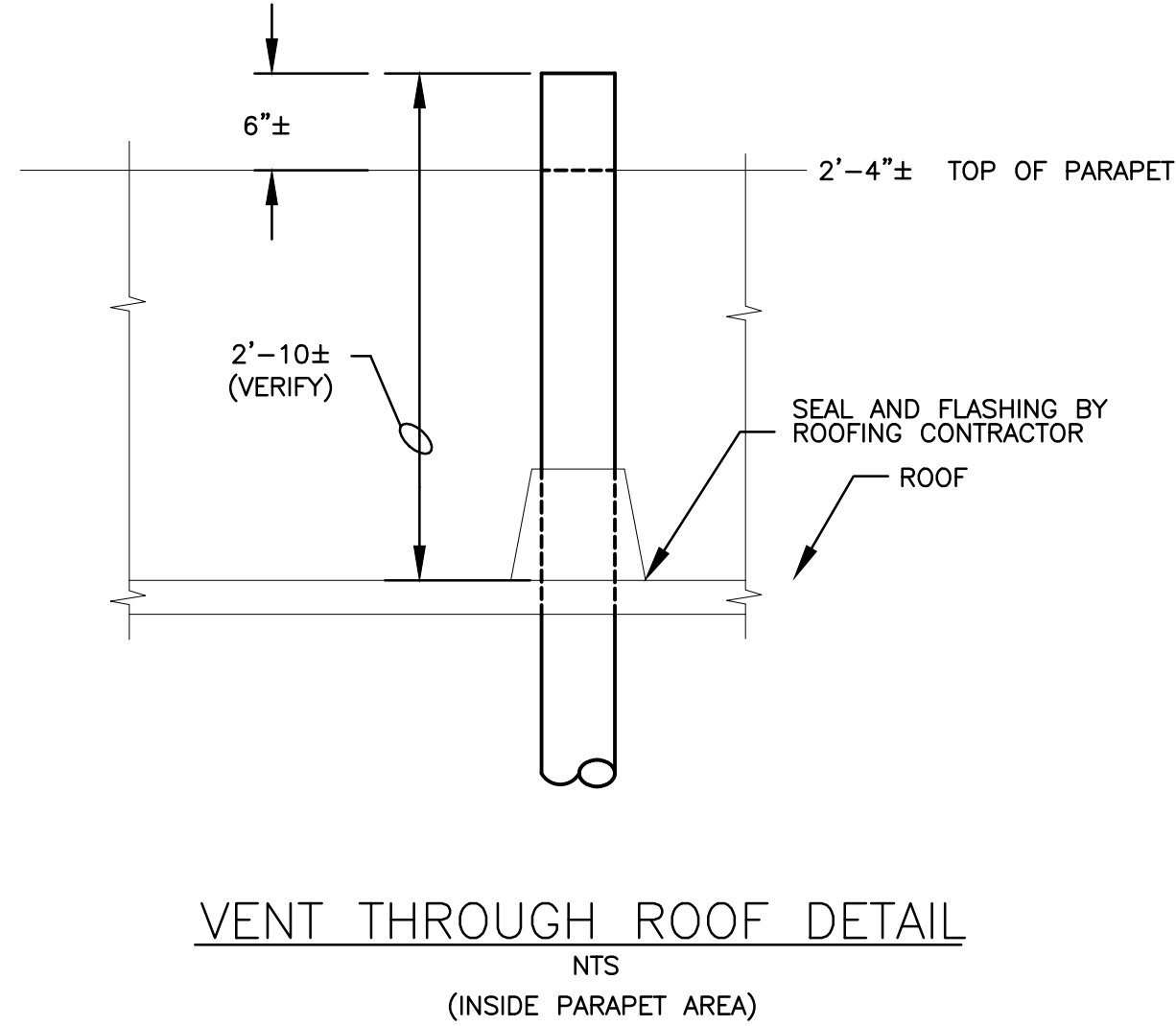
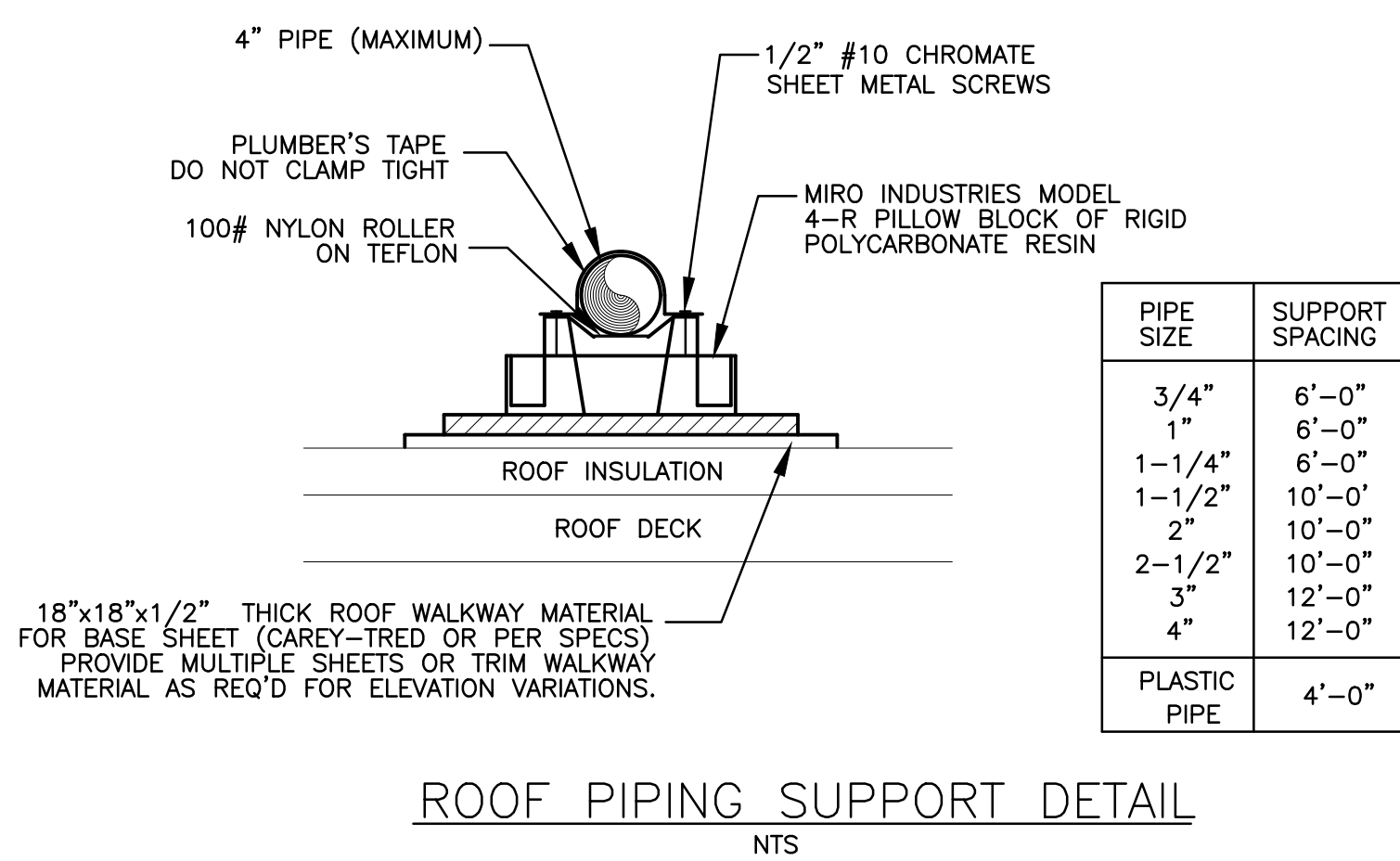
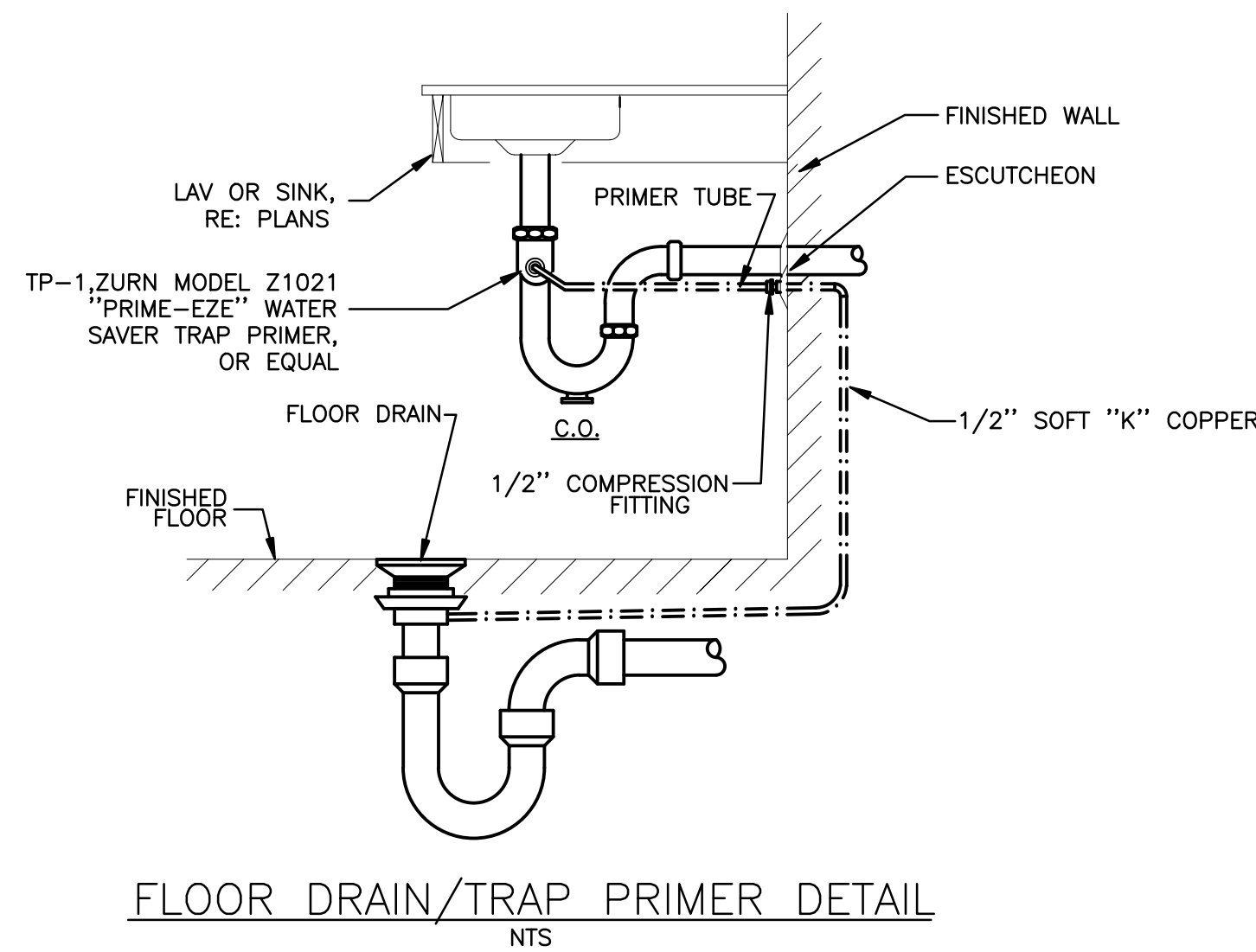
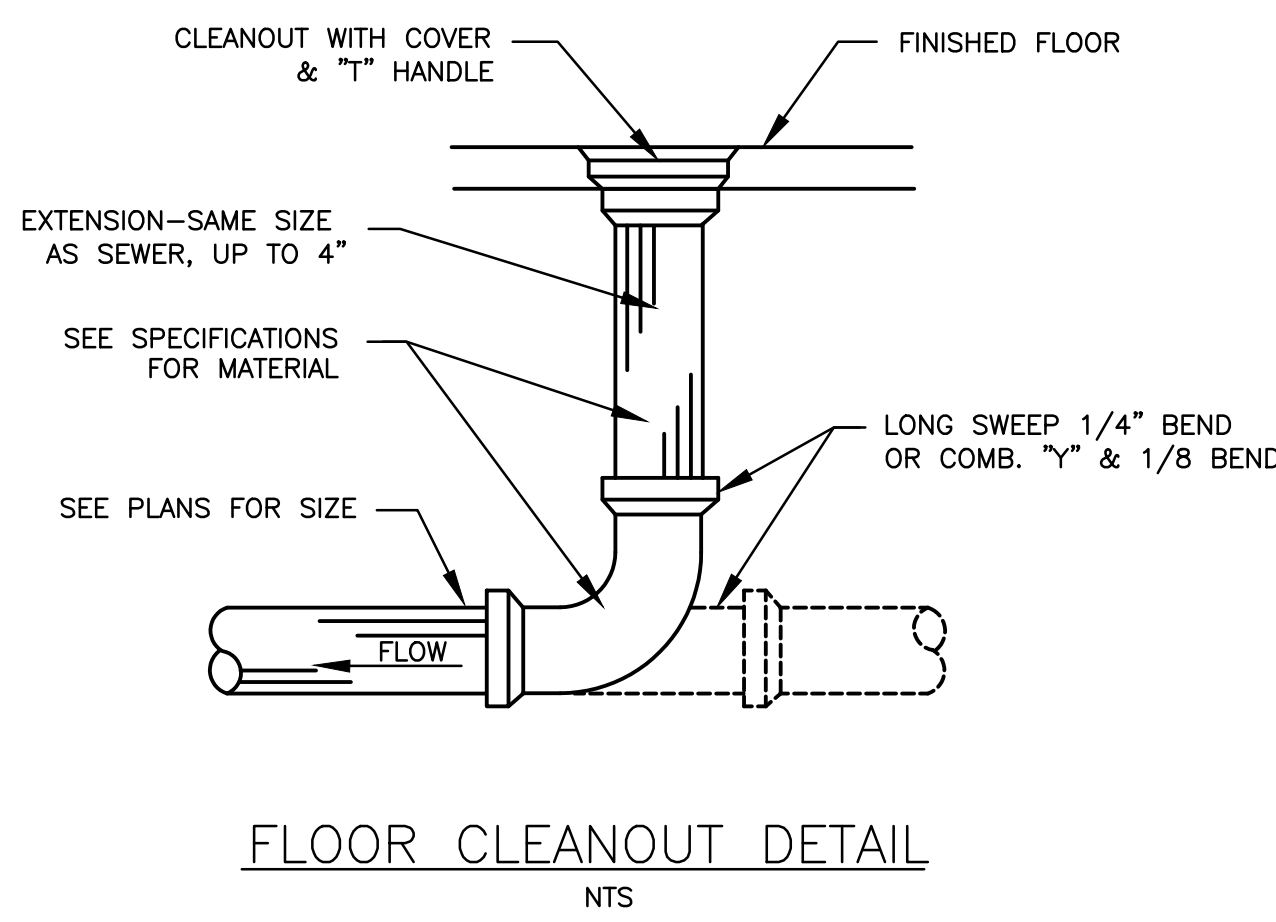
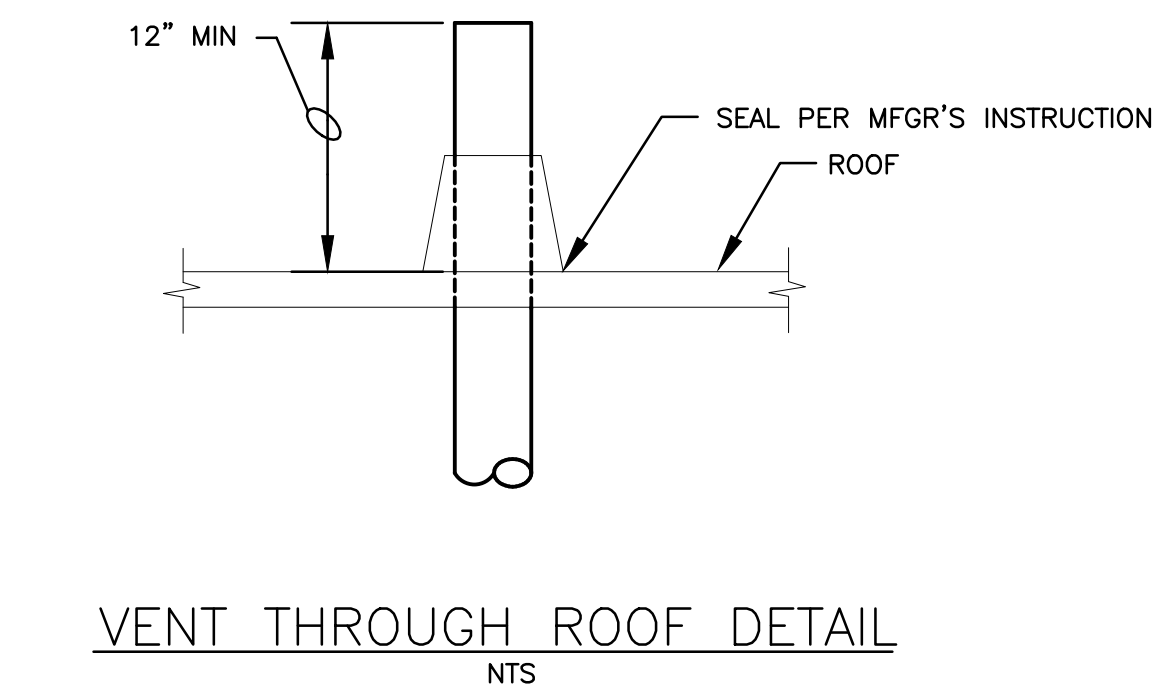
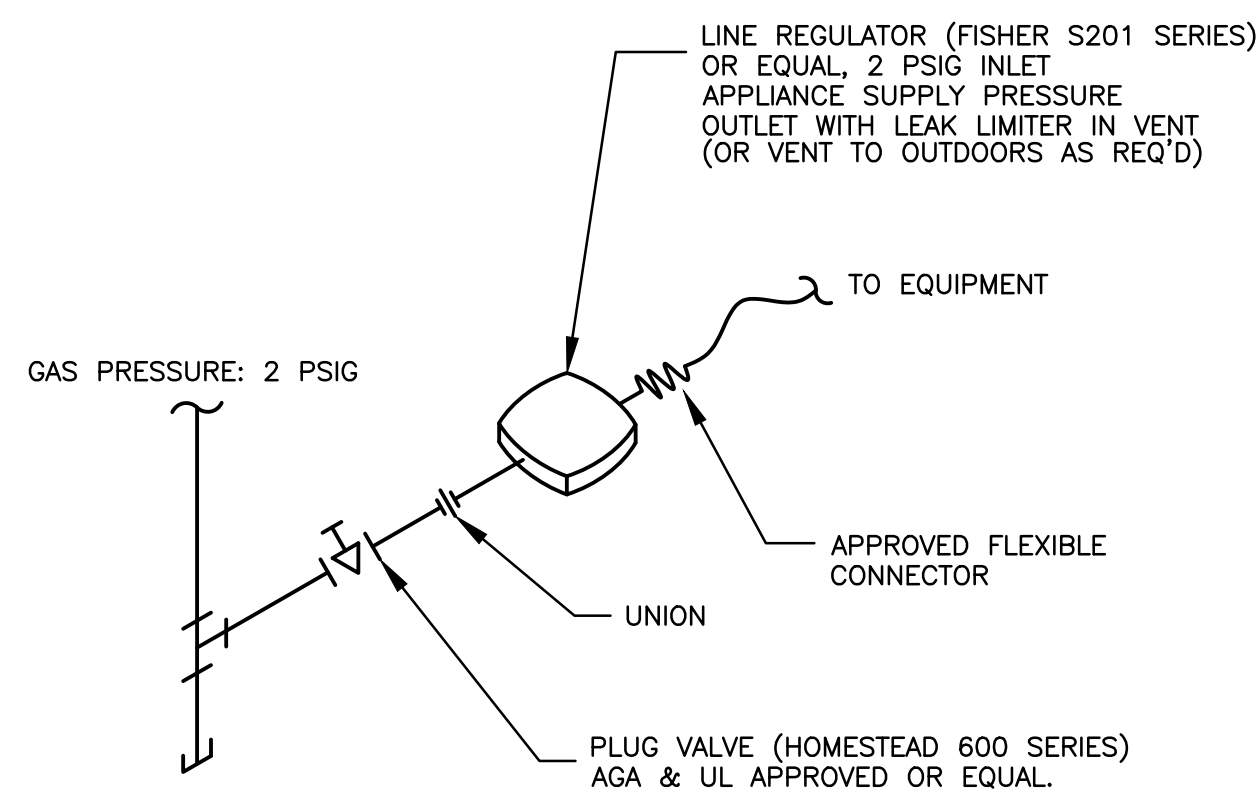
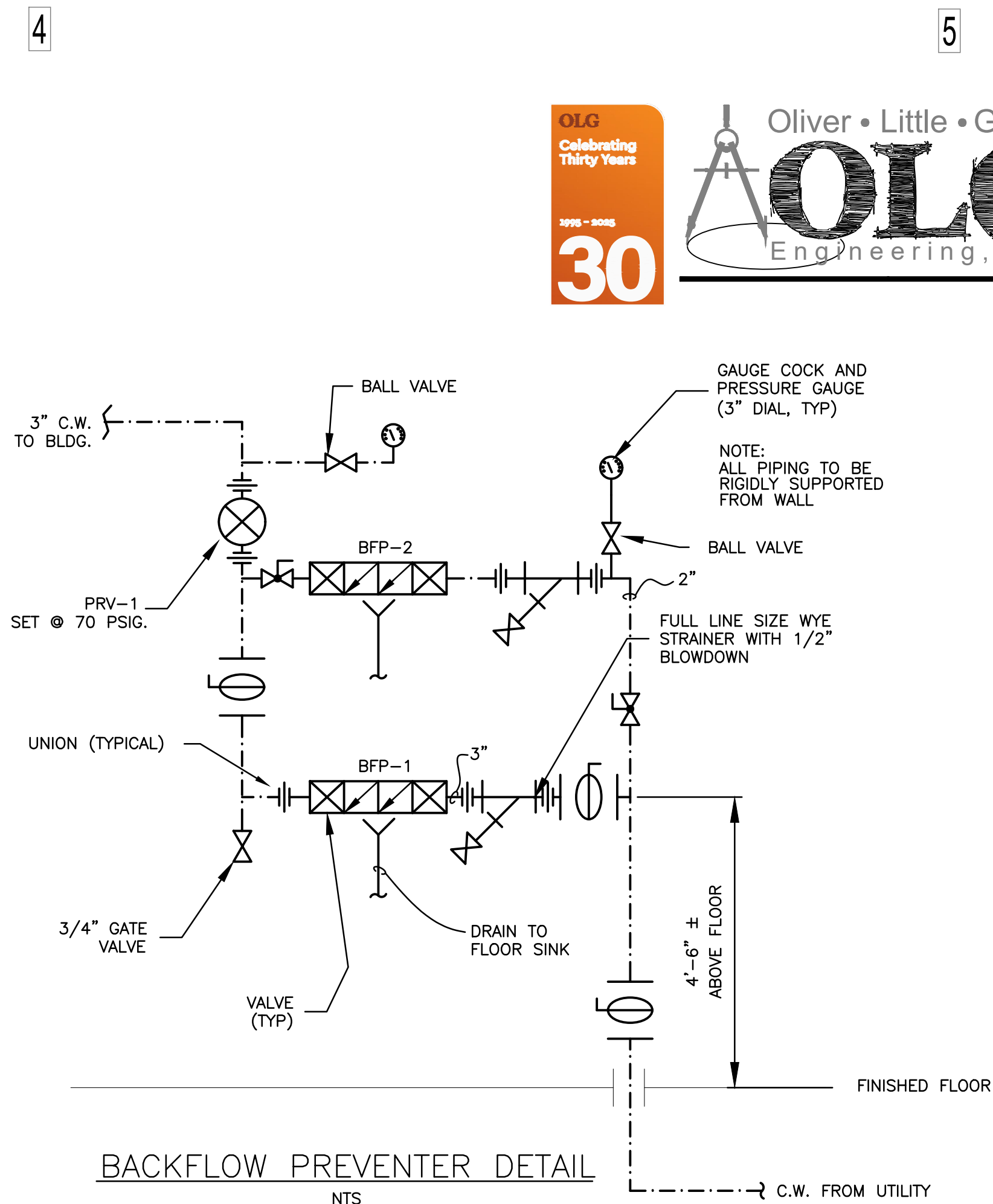
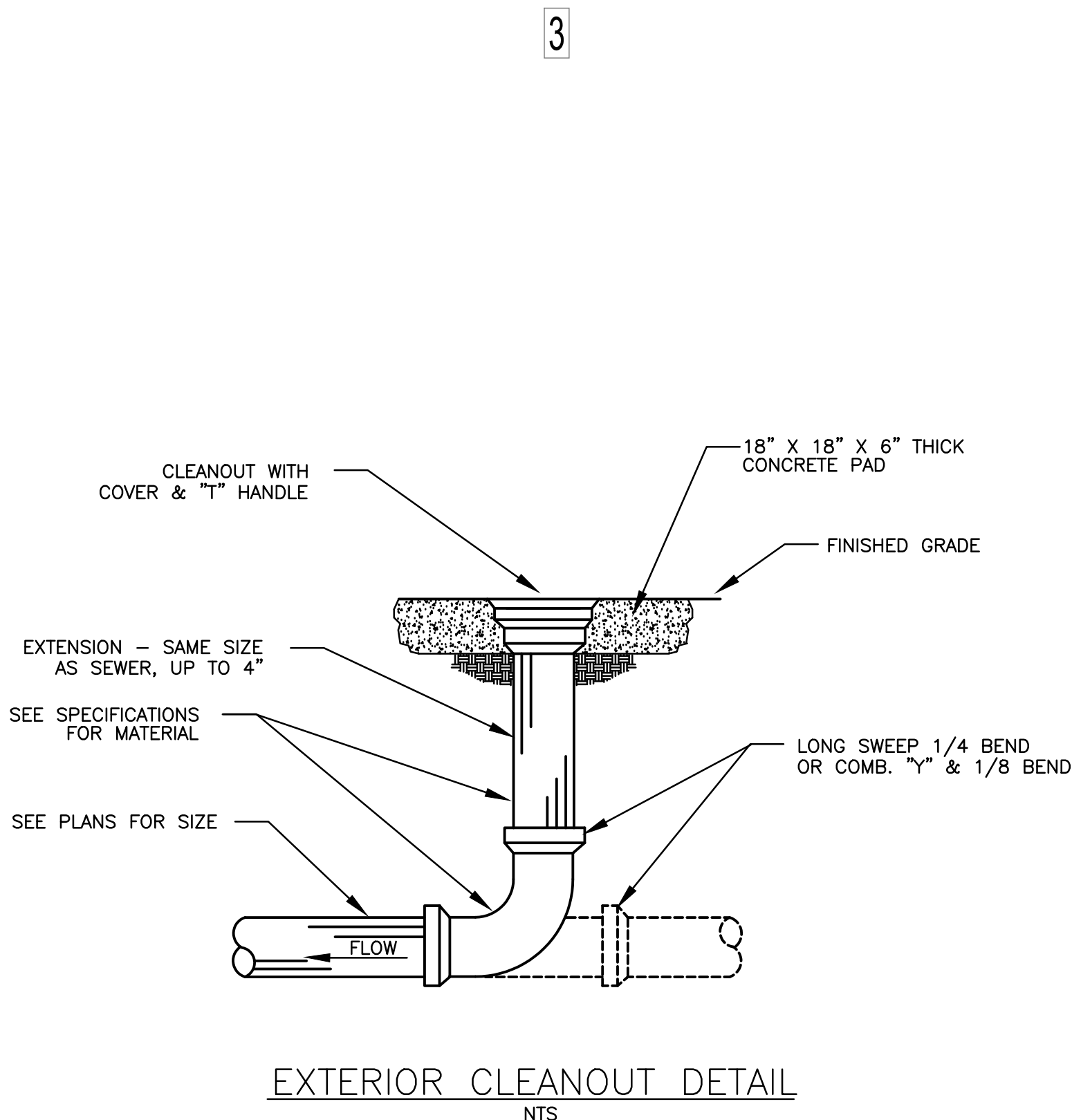
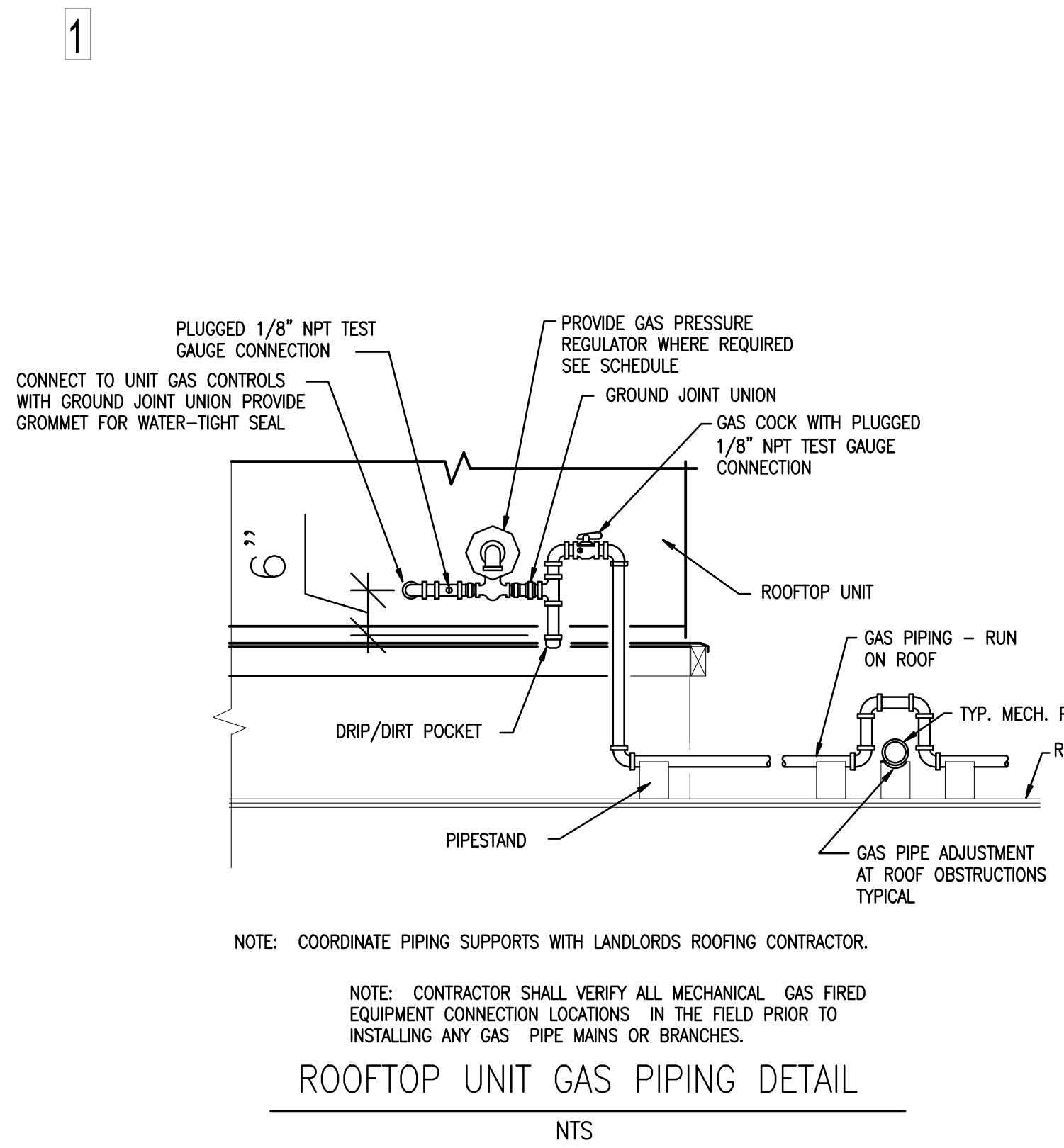
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SHEET TITLE: PLUMBING DETAILS

P3-0





332 Azalea Drive
Panama City Beach
Florida 32413
423.509.1681 T
kevin@kevingoins.com Email
www.kevingoins.com Website

Kevin C. Goins
ARCHITECT, AIA

Laguna Christian Camp
Promise Land Chapel
Panama City Beach
Panama City Beach, Florida 32407

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PLUMBING LEGEND,
SHEET TITLE: SCHEDULE, NOTES

P4-0



PLUMBING LEGEND

MARK/SYMBOL	DESCRIPTION
----	COLD WATER (CW)
-----	HOT WATER (HW, 110° F)
=====	HOT WATER (HW, 140° F)
-----	HOT WATER RETURN(HWR)
-----	DRAIN/WASTE (D)
-----	VENT (V)
-----	OIL WASTE (OWS)
-----	GREASE INTERCEPTED WASTE (GI)
-----	NATURAL GAS (NG)
-----	STORM WATER (ST)
-----	IRRIGATION/INDUSTRIAL WATER (IW)
-----	CONDENSATE DRAIN (CD)
+	BALL VALVE
+	BUTTERFLY VALVE
+	GATE VALVE
+	GLOBE VALVE
+	PLUG VALVE
+	CHECK VALVE
+	PRESSURE REDUCING VALVE (PRV)
+	ANCHOR
+	RELIEF VALVE
+	STRAINER WITH BLOWDOWN VALVE
+	UNION
+	GAS METER
+	WATER METER
+	DROP IN PIPE
+	RISE IN PIPE
+	FLOW DIRECTION ARROW
+	CONNECT TO EXISTING
+	AFF ABOVE FINISHED FLOOR
+	BFP BACKFLOW PREVENTER
+	BTUH BRITISH THERMAL UNIT PER HOUR
+	DB DOWNSPOUT BOOT
+	DF DRINKING FOUNTAIN
+	ECO EXTERIOR CLEANOUT
+	ELEC ELECTRICAL
+	EWC ELECTRIC WATER COOLER
+	FCO FLOOR CLEANOUT
+	FD FLOOR DRAIN
+	FS FLOOR SINK
+	GPH GALLONS PER HOUR
+	HB HOSE BIBB
+	HYD WATER HYDRANT
+	ICE ICE MACHINE
+	LAV LAV
+	MBH BRITISH THERMAL UNIT PER HOUR X 1000
+	MECH MECHANICAL
+	NIC NOT IN CONTRACT
+	PMP PUMP
+	REF REFRIGERATOR
+	SNK SINK
+	SS SANITARY SEWER
+	TP TRAP PRIMER
+	UR URINAL
+	VB VACUUM BREAKER
+	VTR VENT THRU ROOF
+	WC WATER CLOSET
+	WCO WALL CLEANOUT
+	WC WATER COLUMN
+	WH WATER HEATER
+	WHA WATER HAMMER ARRESTOR

NOTE:
ALL OF THE SYMBOLS AND ABBREVIATIONS
INCLUDED ON THIS SHEET MAY OR MAY NOT BE
USED IN THIS SET OF DRAWINGS.

PLUMBING NOTES

- THESE DRAWINGS HAVE BEEN DEVELOPED FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS, DIMENSIONS, CLEARANCES, LOCATION OF EXISTING UTILITIES, ETC. PRIOR TO BIDDING, FABRICATION, OR INSTALLATION. DO NOT SCALE FROM THESE DRAWINGS. COORDINATE ALL STUB-UPS AND CONNECTIONS WITH MANUFACTURER INSTALLATION DATA.
- COORDINATE PLUMBING INSTALLATION AMONG TRADES TO AVOID INTERFERENCES.
- PIPING AND FITTINGS SHALL BE AS FOLLOWS:

POTABLE WATER PIPING BURIED BELOW SLAB SHALL BE TYPE K HARD DRAWN COPPER TUBING PER ASTM B88 WITH WROUGHT COPPER OR CAST BRASS FITTINGS AND LEAD-FREE TIN-SILVER SOLDER.

POTABLE WATER PIPING ABOVE GRADE SHALL BE HARD DRAWN COPPER TYPE L PER ASTM B88 WITH WROUGHT COPPER OR CAST BRASS FITTINGS WITH LEAD-FREE TIN-SILVER SOLDER.

SANITARY AND STORM DRAIN, WASTE, AND VENT PIPING BURIED BELOW AND UNDER SLAB SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS. ABOVE GRADE PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS.

NATURAL GAS PIPING ABOVE GRADE SHALL BE SCHEDULE 40, BLACK CARBON STEEL PER ASTM A53; CLASS 150 THREADED MALLEABLE IRON FITTINGS UP TO 2 INCHES; WELDED FITTINGS FOR 2-1/2 INCHES AND LARGER PER LOCAL GAS CODE REQUIREMENTS.

ALL FIXTURES SHALL BE EQUIPPED WITH SUPPLY STOPS.

PROVIDE CARRIERS/HANGERS FOR ALL WALL HUNG FIXTURES.

INSULATE ABOVE SLAB POTABLE WATER PIPING AND STORM WATER (WHERE INCULDED) WITH 1 INCH FIBERGLASS AND GENERAL SERVICE JACKET. INSULATE UNDERSLAB POTABLE WATER PIPING WITH 1/2 INCH CELLULAR FOAM INSULATION, ARMAFLEX OR EQUAL. PROVIDE PVC PLASTIC JACKET FOR INSULATION INSTALLED IN EXPOSED PUBLIC AREAS. PROVIDE WITH WHITE VINYL JACKET IN EXPOSED AREAS.

PITCH HORIZONTAL PIPING TO DRAIN AS FOLLOWS:

UP TO 3 INCH-1/4 INCH PER FOOT OF RUN
OVER 3 INCH-1/8 INCH PER FOOT OF RUN

ALL PIPING SHALL BE INSTALLED PER LOCAL CODES.

SUPPORT HORIZONTAL PIPING FROM STRUCTURE WITHIN 1 FOOT OF ELBOWS AND AT THE MAXIMUM INTERVALS SPECIFIED BELOW:

NOMINAL PIPE SIZE DISTANCE BETWEEN SUPPORTS
1/2 TO 1-1/4 INCH 6'-0"
1-1/2 TO 2-1/2 INCH 10'-0"
3 TO 4 INCH 10'-0"

PVC 4'-0"

SUPPORT VERTICAL PIPING WITH RISER CLAMPS WITHIN 1 FOOT OF ELBOWS AND BENDS.

USE DIELECTRIC UNIONS (EPCO OR EQUAL) TO MAKE STEEL TO COPPER PIPING AND EQUIPMENT CONNECTIONS.

PROVIDE CHROMED ESCUTCHEON PLATES WHERE PIPING PENETRATES FINISHED WALLS OR CEILING.

ALL DRAINAGE CONNECTIONS SHALL BE TRAPPED UNLESS NOTED OTHERWISE ON DRAWINGS.

ALL ROOF PENETRATIONS FOR PLUMBING PIPING SHALL BE MADE IN ACCORDANCE WITH ROOF SYSTEM MANUFACTURER GUIDELINES. COORDINATE WITH ARCHITECTURAL.

ALL VENTS THRU ROOF SHALL EXTEND A MINIMUM OF 12 INCHES ABOVE ROOF AND BE MAINTAINED A MINIMUM OF 10 FEET FROM ALL OUTSIDE AIR INTAKES.

HORIZONTAL VENT PIPING SHALL BE SLOPED TOWARD SEWER 1/8 INCH PER FOOT OF RUN.

ALL SANITARY BRANCHES TO MAIN CONNECTIONS SHALL BE MADE WITH 45 DEGREE WYE OR WYE AND 1/8 BEND FITTINGS.

CLEAN NEW PIPING AS FOLLOWS PER LOCAL CODE AND THE REQUIREMENTS OF THE LOCAL UTILITY:

FLUSH NEW POTABLE WATER PIPING WITH A 100 PPM CHLORINE SOLUTION. ALLOW TO STAND IN PIPES FOR TWO HOURS. THEN FLUSH WITH POTABLE WATER BEFORE PLACING IN SERVICE.

FLUSH ALL OTHER PIPING WITH POTABLE WATER TO REMOVE DIRT AND DEBRIS.

TEST NEW LINES HYDROSTATICALLY AT THE PRESSURES LISTED BELOW; REPAIR LEAKS AND RETEST UNTIL THE PRESSURE HOLDS FOR ONE HOUR.

POTABLE WATER-150 PSIG
DRAIN-5 PSIG

INSTALL, INSPECT, TEST, AND PURGE NATURAL GAS PIPING PER NFPA 54, LOCAL GAS CODE, AND THE REQUIREMENTS OF THE LOCAL UTILITY.

PRIME, PAINT AND LABEL NATURAL GAS PIPING LOCATED OUTDOORS, AND WHERE EXPOSED INDOORS IN FINISHED LOCATIONS. FINISH PAINT COLOR PER ARCHITECTURAL.

NEW BALL VALVES SHALL BE BRONZE 2-PIECE BODY, FULL PORT TYPE, THREADED CONNECTIONS, WILKINS, APOLLO, OR APPROVED EQUAL.

SEE ARCHITECTURAL FOR MOUNTING HEIGHTS OF FIXTURES.

ALL PIPING PENETRATIONS THROUGH NON-RATED CONSTRUCTION SHALL BE SLEEVED. SEAL PENETRATIONS THROUGH EXTERIOR WALL WEATERTIGHT WITH SILICONE SEALANT. PROVIDE ESCUTCHEONS AT EXPOSED INTERIOR LOCATIONS. ALL PIPING PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED PER DETAIL. SEE ARCHITECTURAL FOR LOCATIONS OF RATED CONSTRUCTION.

VENT, HW, AND CW PIPING SHALL BE ROUTED UNDERSLAB, ABOVE CEILING, AND INSIDE WALLS ON HEATED SIDE OF INSULATION TO FIXTURES.

PRIME AND PAINT ALL EXPOSED PIPING. COLOR PER ARCHITECTURAL.

INDIVIDUAL CONNECTIONS TO FIXTURES SHALL BE SIZED AS INDICATED IN SCHEDULE UNLESS NOTED OTHERWISE.

ALL UNDERSLAB DRAIN PIPING SHALL BE 4 INCH MINIMUM, UNLESS NOTED OTHERWISE.

CONTRACTOR SHALL PROVIDE VIDEO DOCUMENTATION OF THE COMPLETE UNDERSLAB ROUGH IN FROM 6 INCHES ABOVE SLAB TO EXTERIOR CLEANOUT INCLUDING ALL STUB-UPS, MAINS, BRANCHES, ETC. VIDEO SHALL BE PERFORMED JUST PRIOR TO SLAB POURING AT A DATE TO BE CONFIRMED BY THE GC. DOCUMENTATION TO BE PROVIDED TO THE GC UPON COMPLETION, PRIOR TO SLAB POUR TO INCLUDE DRAWING/MAP FOR THE SEQUENCES OF THE ASSOCIATED VIDEOS IN ADDITION TO THE CAMERA FOOTAGE ALONG WITH NOTATIONS OF ANY ABNORMALITIES, THEIR LOCATIONS, AND DETAILS OF THE OCCURRENCE. WHERE REQUIRED, CONTRACTOR SHALL PROVIDE REPAIRS FOR SUCH ABNORMALITIES AS DIRECTED BY THE GC ACCORDINGLY. WHERE MULTIPLE POURS AND CONSTRUCTION SEQUENCES ARE INVOLVED, CONTRACTOR SHALL PROVIDE FOR EACH SEQUENCE AS COORDINATED WITH THE GC CONSTRUCTION SCHEDULE AS REQUIRED.

PLUMBING FIXTURE SCHEDULE

(NOTE: ALL FIXTURES SHALL BE LEAD COMPLIANT PER CURRENT REGULATIONS)

MARK	ITEM	HW	CW	WASTE	VENT	SUPPLY STOP	ELECT. V/Ph/Hz	ELECT. MC/AM/OCPP	DESCRIPTION
AAV	AIR ADMITTANCE VALVE	-	-	-	LINE SIZE	-	-	-	ONE WAY AIR VENT FOR ADMITTANCE OF FRESH AIR "INTO" THE PLUMBING VENT STACK. VENT TO CLOSE TO AIR BEING DISCHARGED THRU STACK; STUDOR "MAXI-VENT" OR "MINI-VENT"
BEV	BEVERAGE MACHINE	-	1/2"	-	-	CW	-	-	EQUIPMENT (COFFEE/BEVERAGE MACHINE) IS OWNER PROVIDED. PLUMBING CONTRACTOR TO PROVIDE ROUGH-IN PLUMBING INCLUDING SHUT-OFF VALVE IN VALVE BOX RECESSED IN WAL. BOX SHALL BE PRO-SET FIRE RATED SERIES WITH BALL VALVE. PROVIDE BACKFLOW PREVENTER IN SUPPLY. WILKINS 740. CONFIGURE BOX FOR SUPPLY DIRECT FROM MAIN.
BFP-1	BACKFLOW PREVENTER	-	LINE SIZE	-	-	-	-	-	REDUCED PRESSURE TYPE, INTEGRAL SHUT-OFF VALVES COMPLYING WITH A.S.S.E. 1013. WILKINS 378FC-AG SERIES WITH INLET WYE STRAINER AND AIR GAP FITTING.
BFP-2	BACKFLOW PREVENTER	-	LINE SIZE	-	-	-	-	-	REDUCED PRESSURE TYPE, INTEGRAL SHUT-OFF VALVES COMPLYING WITH A.S.S.E. 1013. WILKINS 978XLS-AG SERIES WITH INLET WYE STRAINER AND AIR GAP FITTING.
ECO	EXTERIOR CLEANOUT	-	-	LINE SIZE	-	-	-	-	ROUND POLISHED HEAVY DUTY BRONZE STRAFTER TOP; ZURN MODEL ZN-1400-HD-VP.
ET-1, 2	EXPANSION TANK	-	-	-	-	-	-	-	DOMESTIC WATER USAGE, VERTICAL STEEL TANK, HEAVY DUTY BUTYL BLEND DIAPHRAM, POLYPROPYLENE LINED DOME, 4.5 GALLON CAPACITY, WILKINS XT-18.
EW-C-1	ELECTRIC WATER COOLER (HYDRATION STATION)	-	1/2"	1-1/2"	1-1/2"	CW	115/160	< 20A	TWIN UNIT, ONE WHEEL CHAIR ACCESSIBLE, BOTTLE FILLER STATION, FRONT PUSHBARS, SURFACE MOUNT, STAINLESS STEEL TOP, ARI 1010 CERTIFIED, 8 GPH, 5 YR. REFRIGERATION SYSTEM WARRANTY, LEAD FREE, 120 VAC, ELKAY LZSTLGBWSLK (WITH FILTER), PROVIDE CARRIERHANGER.
FCO	FLOOR CLEANOUT	-	-	LINE SIZE	-	-	-	-	ROUND POLISHED BRONZE VANDAL PROOF TOP; ZURN MODEL ZN-1400-VP. PROVIDE WITH CARPET FLANGE COVER IN CARPETED AREAS AND RECESSED SQUARE TOP IN AREAS WITH TILED FLOOR. PROVIDE WITH ANCHOR FLANGE 'K' FOR SUSPENDED FLOOR INSTALLATIONS.
FD-1	FLOOR DRAIN	-	-	3"	2"	-	-	-	CAST IRON BODY, VERTICAL POST ADJUSTABLE, 6" SQUARE POLISHED BRONZE STRAINER, VANDAL PROOF SCREWS, TRAP PRIMER CONNECTIONS (UNLESS NOTED OTHERWISE), 4 INCH DEEP SEAL TRAP; ZURN ZN-415-SZ1-6S-VP-P. PROVIDE WITH "TRAP GUARD"
FD-2	FLOOR DRAIN	-	-	3"	2"	-	-	-	CAST IRON BODY, VERTICAL POST ADJUSTABLE, 6" ROUND POLISHED BRONZE STRAINER, VANDAL PROOF SCREWS, 4 INCH DEEP SEAL TRAP; ZURN ZN-415-BZ1-6B-VP. PROVIDE WITH "TRAP GUARD"
FS-1	FLOOR SINK (12X12X8)	-	-	4"	2"	-	-	-	CAST IRON BODY, 12-1/2" SQUARE TOP, 8" DEEP, BUCKET STRAINER, 1/2" GRID POLISHED BRONZE GRATE, VANDAL PROOF SCREWS, 4 INCH DEEP SEAL TRAP; ZURN Z-1901-K23
GI	GREASE INTERCEPTOR	-	-	2"	-	-	-	-	ASME A112.14.3 COMPLIANT, POLYETHYLENE, IN-GROUND, INTEGRAL TRAP, TRAFFIC RATED COVER (T24-GI) WITH SAFETY STAR, 80 GPM; SCHIER GB80 WITH EXTENSION AS REQUIRED FOR FLUSH TO GRADE ACCESS WAY.
HB-1	HOSE BIBB (FROST PROOF)	-	3/4"	-	-	-	-	-	AUTOMATIC DRAINING, 3/4" FPT, BRASS CONSTRUCTION, LOOSE KEY HANDLE, CONFORMING TO A.S.S.E. 1019, VACUUM BREAKER-BACKFLOW PREVENTER CONFORMING TO A.S.S.E. 1011, 3/4" HOSE THREAD NOZZEL; ZURN Z-1321XL.
HB-2	HOSE BIBB - ROOF (FROST PROOF)	-	3/4"	-	-	-	-	-	AUTOMATIC DRAINING, 3/4" FPT, BRASS CONSTRUCTION, WHEEL HANDLE, CONFORMING TO A.S.S.E. 1019, VACUUM BREAKER-BACKFLOW PREVENTER CONFORMING TO A.S.S.E. 1011, 3/4" HOSE THREAD NOZZEL; ZURN Z-1346.
HS	HAND SINK	1/2"	1/2"	1-1/2"	1-1/2"	HW & CW	-	-	EQUIPMENT (SINK AND FAUCET SET) IS FURNISHED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE ROUGH-IN AND FINAL CONNECTION PLUMBING INCLUDING TRAP, DRAIN ASSEMBLY, SUPPLY STOPS, PIPING, AND SUPPLY TUBES. PROVIDE WITH MIXING VALVE (MV-1) SET LEAVING TEMPERATURE 110°F.
HWP-1, 2	HOT WATER PUMP	3/4"	-	-	-	-	115/160	1/12 Hp	FLANGED INLET AND OUTLET, BRONZE BODY, BRASS IMPELLER, 145 PSIG MAXIMUM, 225 DEGREE FAHRENHEIT MAXIMUM, 115 VAC, 11/2 HP, 10 GPM; GRUNDFOSS UP26-99-SFC, STAINLESS STEEL, STAINLESS STEEL FLANGE CONNECTION, IN-LINE, SUITABLE FOR DOMESTIC WATER.
ICE	ICE MACHINE	-	1/2"	-	-	CW	-	-	EQUIPMENT (ICE MACHINE) IS OWNER PROVIDED. PLUMBING CONTRACTOR TO PROVIDE ROUGH-IN PLUMBING INCLUDING SHUT-OFF VALVE IN VALVE BOX RECESSED IN WALL AND DRAIN TO FLOOR SINK WITH TURN DOWN AND REQUIRED AIR GAP. BOX SHALL BE PRO-SET FIRE RATED SERIES WITH BALL VALVE. PROVIDE BACKFLOW PREVENTER IN SUPPLY; WILKINS 740. CONFIGURE BOX FOR SUPPLY DIRECT FROM MAIN.
KS	KITCHEN SINK	1/2"	1/2"	2"	1-1/2"	HW & CW	-	-	EQUIPMENT (SINK AND FAUCET SET) IS FURNISHED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE ROUGH-IN AND FINAL CONNECTION PLUMBING INCLUDING SUPPLY STOPS, PIPING, SUPPLY TUBES, AND DRAIN TO FLOOR SINK WITH AIR GAP.
LAV-1	LAVATORY (HANDICAP)	1/2"	1/2"	1-1/2"	1-1/2"	HW & CW	-	-	WALL HUNG, VITREOUS CHINA, SELF-RIMMING, FRONT OVERFLOW, 20X18" BOWL; ZURN Z534A, FAUCET, CHROME PLATED BRASS WITH 4" SPOUT, 0.5 GPM, SINGLE HANDLE, OFF-SET GRID DRAIN; ZURN Z7440-XL-FC WITH SUPPLY STOPS, TRAP, DRAIN, ADA PIPING PROTECTION. PROVIDE WITH ZURN Z1224 WALL HANGER. PROVIDE WITH MIXING VALVE (MV-1) SET LEAVING TEMPERATURE 110°F.
LAV-2	LAVATORY (HANDICAP)	1/2"	1/2"	1-1/2"	1-1/2"	HW & CW	-	-	COUNTER SET, VITREOUS CHINA, SELF-RIMMING, FRONT OVERFLOW, 20X17" BOWL; ZURN Z5114, FAUCET, CHROME PLATED BRASS WITH 4" SPOUT, 0.5 GPM, SINGLE HANDLE, OFF-SET GRID DRAIN; ZURN Z7440-XL-FC WITH SUPPLY STOPS, TRAP, DRAIN, ADA PIPING PROTECTION. PROVIDE WITH MIXING VALVE (MV-1) SET LEAVING TEMPERATURE 110°F.
MS-1	MOP SINK (SQUARE)	1/2"	1/2"	3"	2"	-	-	-	MOLDED STONE, 1-PIECE, 24X24X12", 1-1/4" CURB, STAINLESS STEEL CAPS, INTEGRAL DRAIN, STAINLESS STEEL GRID STRAINER; STERN-WILLIAMS SB-900. FAUCET, SERVICE TYPE, VACUUM BREAKER, WALL BRACE, 8" SPOUT, BUCKET HOOK, 3/4" HOSE THREAD; STERN-WILLIAMS T-10-VB. MOP HANGER, STAINLESS STEEL 24X3"; STERN-WILLIAMS T-40.
MV-1	MIXING VALVE	3/8"	3/8"	-	-	-	-	-	BRASS BODY THERMOSTATIC MIXING VALVE, 0.5 GPM MINIMUM FLOW, INTEGRAL CHECKSTOPS, SS STRAINER, WALL SUPPORT, COLOR CODED DIAL WITH HANDLE AND DIRECTIONAL INDICATORS, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP, ASSE 1070 COMPLIANT; SYMONS 7-210-CK.
NOZ	DOWNSPOUT NOZZLE	-	-	LINE SIZE	-	-	-	-	NICKEL BRONZE BODY, THREADED INLET WITH DECORATIVE FACE WALL FLANGE AND OUTLET NOZZLE; ZURN ZANB-199.
PRV-1	PRESSURE REDUCING VALVE	-	LINE SIZE	-	-	-	-	-	DOMESTIC WATER SUITABLE, BRONZE BODY, RENEWABLE STAINLESS STEEL SEAT, BUNA N DIAPHRAM, THERMAL BY-PASS, MEETS A.S.S.E. 1003 & LOCAL PLUMBING CODE; WILKINS 600 SERIES. SET TO 70 PSIG.
SNK-1	SINK	1/2"	1/2"	1-1/2"	1-1/2"	HW & CW	-	-	SINGLE COMPARTMENT, COUNTER SET, 26X21", 18 GA. STAINLESS STEEL, SELF RIMMING, 3-HOLE, 4" CENTERS; ELKAY "LUSTERTONE" MODEL LR-2521. FAUCET, 2 HANDLE, DECK MOUNT, SWING SPOUT, WING HANDLES; ZURN Z-871-C4. DRAIN, 3-1/2" STD STRAINER, STAINLESS STEEL BASKET. PROVIDE WITH MIXING VALVE (MV-1) SET LEAVING TEMPERATURE 110°F.
RD-1	ROOF DRAIN	-	-	LINE SIZE	-	-	-	-	15" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH 2" DAM, CAST IRON BODY, ADJUSTABLE EXTENSION ASSEMBLY, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, DOUBLE TOP-SET DECK PLATE AND CAST IRON DOME; ZC-163-EA-SC.
TP	TRAP PRIMER	-	-	-	-	-	-	-	OVERFLOW TYPE, CHROME PLATE CAST BRONZE P-TRAP WITH CLEANOUT PLUG; ZURN Z-1021.
UR-1	URINAL	-	3/4"	2"	1-1/2"	-	-	-	WALL HUNG, SENSOR OPERATED AQUAVANTAGE FLUSH VALVE, WHITE VITREOUS CHINA, INTEGRAL FLUSHING RINSE AND TRAP, 1.0 GALL/FLUSH FLUSH VALVE; ZURN Z5758-U AND ZURN ZER6003AV-WS1-CPM SENSOR OPERATED FLUSH VALVE. PROVIDE CARRIERHANGER.
WC-1	WATER CLOSET	-	1"	3"	2"	-	-	-	FLOOR MOUNT, SENSOR OPERATED AQUAVANTAGE FLUSH VALVE, WHITE VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET, 1.6 GAL/FLUSH, ELONGATED OPEN FRONT ANTI-MICROBIAL SEAT, NO LID, STAINLESS STEEL CHECK HINGES; ZURN Z565-BWL1 WITH ZURN ZER6000AV-WS1-CPM SENSOR FLUSH VALVE AND Z5955SS-AM-STS SEAT AND Z5972-COMB KIT.
WC-2	WATER CLOSET (HANDICAP)	-	1"	3"	2"	-	-	-	FLOOR MOUNT, SENSOR OPERATED AQUAVANTAGE FLUSH VALVE, WHITE VITREOUS CHINA, ADA ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET, 1.6 GAL/FLUSH, ELONGATED OPEN FRONT ANTI-MICROBIAL SEAT, NO LID, STAINLESS STEEL CHECK HINGES; ZURN Z565-BWL1 WITH ZURN ZER6000AV-WS1 SENSOR FLUSH VALVE, ZURN Z5955SS-AM-STS SEAT, AND ZURN Z5972-COMB KIT.
WCO	WALL CLEANOUT	-	-	LINE SIZE	-	-	-	-	BRONZE PLUG, STAINLESS STEEL WALL ACCESS COVER PLATE, ORION OR EQUAL WITH ACCESS PLATE.
WH-1, 2	ELECTRIC WATER HEATER	3/4"	3/4"	-	-	-	208/160	4.5 KW	LIGHT COMMERCIAL, STORAGE TYPE, UL-LISTED, GLASS-LINED TANK, INSULATED PER ASHRAE 90.1B, MAGNESIUM ANODE ROD, DRAIN VALVE, ADJUSTABLE THERMOSTAT, MANUAL RESET OVERHEAT SAFETY, PROPERLY SIZED ASME TEMPERATURE AND PRESSURE RELIEF VALVE; LOCHINVAR LDS-30, 30 GAL, 208V, 20 GPH @ 90 F RISE, 4500 W.
WHA	WATER HAMMER ARRESTOR	-	-	-	-	-	-	-	BELLOWS TYPE, 18-8 STAINLESS STEEL CONSTRUCTION, ALL-WELDED BELLOWS, PRECHARGED INERT GAS CUSHION, APPROVED PER A.S.S.E. 1010 AND P.D.I. STANDARD WH201; ZURN MODEL Z-1700.