

PLUMBING FIXTURE SIZING SCHEDULE						
P-#	PLUMBING FIXTURE	SAN	VENT	CW	HW	
P-1	TANK TYPE WATER CLOSET	3"	2"	1-1/4"	---	
P-1A	TANK TYPE WATER CLOSET - ADA	3"	2"	1-1/4"	---	
P-2	COUNTER TOP LAVATORY - SENSOR - ADA	1-1/2"	1-1/2"	1/2"	1/2"	
P-3	URINAL - SENSOR BATTERY	2"	1-1/2"	3/4"	---	
P-3A	URINAL - SENSOR BATTERY - ADA	2"	1-1/2"	3/4"	---	
P-4	1 COMPARTMENT SINK - UNDERMOUNT - BREAK ROOM	1-1/2"	1-1/2"	1/2"	1/2"	
P-4A	1 COMPARTMENT SINK - UNDERMOUNT - CONFERENCE ROOM 101	1-1/2"	1-1/2"	1/2"	1/2"	
P-5	ELECTRIC WATER COOLER - 2 STATION - BOTTLE FILLER	2"	1-1/2"	1/2"	---	
P-6	COLD WATER CONNECTION BOX	---	---	1/2"	---	
FD-1	FLOOR DRAIN - TOILET ROOM - TRAP GUARD	4"	2"	---	---	
FD-2	FLOOR DRAIN - MECHANICAL ROOM - TRAP GUARD	3"	1-1/2"	---	---	
RD-1	ROOF DRAIN - 4"	4"	---	---	---	
RD-2	ROOF DRAIN - 6"	6"	---	---	---	
ORD-1	OVERFLOW ROOF DRAIN - 4"	4"	---	---	---	
ORD-2	OVERFLOW ROOF DRAIN - 6"	6"	---	---	---	
OSD-1	OVERFLOW SPOUT NOZZLE - 6"	6"	---	---	---	
DBC-1	DOWNSPOUT BOOT CONNECTOR - 6"	6"	---	---	---	
DC-1	DOWNSPOUT CONNECTOR - 6"	6"	---	---	---	

MINIMUM 2" SANITARY WASTE UNDERSLAB. ALL PIPING TO BE SIZED ACCORDING TO CHART UNLESS OTHERWISE NOTED ON FLOOR PLANS.

PLUMBING GENERAL NOTES:

- A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OR REPLACEMENT, IF DAMAGED, OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN UN-DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS, THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- I. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- J. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- K. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- L. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- M. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- N. IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
- O. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- P. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- Q. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.)
- R. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- S. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS, TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
- T. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- U. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- V. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- W. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- X. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
- Y. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.
- Z. THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2009 IECC.
- AA. THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.

SYMBOLS & ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR		POINT OF CONNECTION	
AFR	ABOVE FINISHED ROOF		PIPE ELBOW TURNING UP/TURNING DOWN	
BFF	BELOW FINISHED FLOOR		PIPE TEE TURNING UP/TURNING DOWN	
BFP	BACK FLOW PREVENTER		FIRE PROTECTION LINE	
C.I.	CAST IRON		OVERFLOW ROOF LEADER PIPING	
CO	CLEAN OUT		PUMPED DISCHARGE PIPING	
CW	DOMESTIC COLD WATER		ROOF LEADER PIPING	
DN	DOWN		SANITARY WASTE PIPING	
ECO	EXTERIOR CLEAN OUT		STORM SEWER PIPING	
FFE	FINISHED FLOOR ELEVATION		VENT PIPING	
FPWH	FREEZE PROOF WALL HYDRANT		EXISTING PIPING (THIN LINE)	
HB	HOSE BIBB		DOMESTIC COLD WATER PIPING	
HW	DOMESTIC HOT WATER		DOMESTIC HOT WATER SUPPLY	
HWR	DOMESTIC RECIRCULATING HOT WATER		DOMESTIC RECIRCULATING HOT WATER	
IAW	IN ACCORDANCE WITH		CLEANOUT IN CEILING SPACE	
ID	INSIDE DIMENSION		FLOOR CLEANOUT	
IE	INVERT ELEVATION		EXTERIOR CLEANOUT	
Kw	KILOWATT		BALANCING VALVE	
MH	MANHOLE		BALL VALVE	
NTS	NOT TO SCALE		SAFETY RELIEF VALVE	
NIC	NOT IN CONTRACT		SAFETY RELIEF VALVE	
NO	NORMALLY OPEN		OSSY (GATE) VALVE	
NC	NORMALLY CLOSED		PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)	
OD	OUTSIDE DIMENSION		STRAINER	
OFCK	OWNER FURNISHED, CONTRACTOR INSTALLED		CHECK VALVE	
OFDI	OWNER FURNISHED, OWNER INSTALLED		DOUBLE CHECK VALVE ASSEMBLY	
CFCK	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		PIPING UNION	
OR	OPEN RECEPACLE		FLOW SWITCH	
ORL	OVERFLOW ROOF LEADER		PRESSURE SWITCH	
OSD	OVERFLOW SPOUT NOZZLE		TAMPER SWITCH	
PD	PUMPED DISCHARGE		THERMOMETER	
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)		VACUUM BREAKER	
PSI	POUNDS PER SQUARE INCH		LIMITED AREA SPRINKLER HEAD	
RL	ROOF LEADER		PETE'S PLUG	
SAN	SANITARY PIPING		DC-#	DOWNSPOUT ONNECTOR DESIGNATOR
SR	SANITARY RISER		DBC-#	DOWNSPOUT BOOT CONNECTOR DESIGNATOR
T&P	TEMPERATURE & PRESSURE		FD-#	FLOOR DRAIN DESIGNATOR
SS	STORM SEWER		OSD-#	OVERFLOW ROOF DRAIN SPOUT NOZZLE DESIGNATOR
TB	THRUST BLOCK		ED-#	FLOOR DRAIN DESIGNATOR
TE	TOP ELEVATION		ORD-#	OVERFLOW ROOF DRAIN DESIGNATOR
TP	TRAP PRIMER		OSD-#	OVERFLOW ROOF DRAIN SPOUT NOZZLE DESIGNATOR
TYP	TYPICAL		RD-#	ROOF DRAIN DESIGNATOR
UON	UNLESS OTHERWISE NOTED		PL#	PLUMBING FIXTURE DESIGNATOR
VTR	VENT THRU ROOF		EQ#	EQUIPMENT TAG DESIGNATOR
W/	WITH		NT#	TAGGED NOTE DESIGNATOR
			RD#	REVISION DESIGNATOR
			TS#	TEMPERATURE SENSOR DESIGNATOR
			HO#	HOSE BIB DESIGNATOR



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10411 Meeting Street, Prospect, Kentucky 40059
502.326.3085 • F 502.326.2691
www.cmta-grs.com

Indiana
3211 Grant Lane Road Suite 30
New Albany, Indiana 47150
[P] 812.944.2222
[F] 812.944.1122

Kentucky
819 West Mann Street, Suite 400
Louisville, Kentucky 40202
[P] 502.581.0570
[F] 502.581.0670

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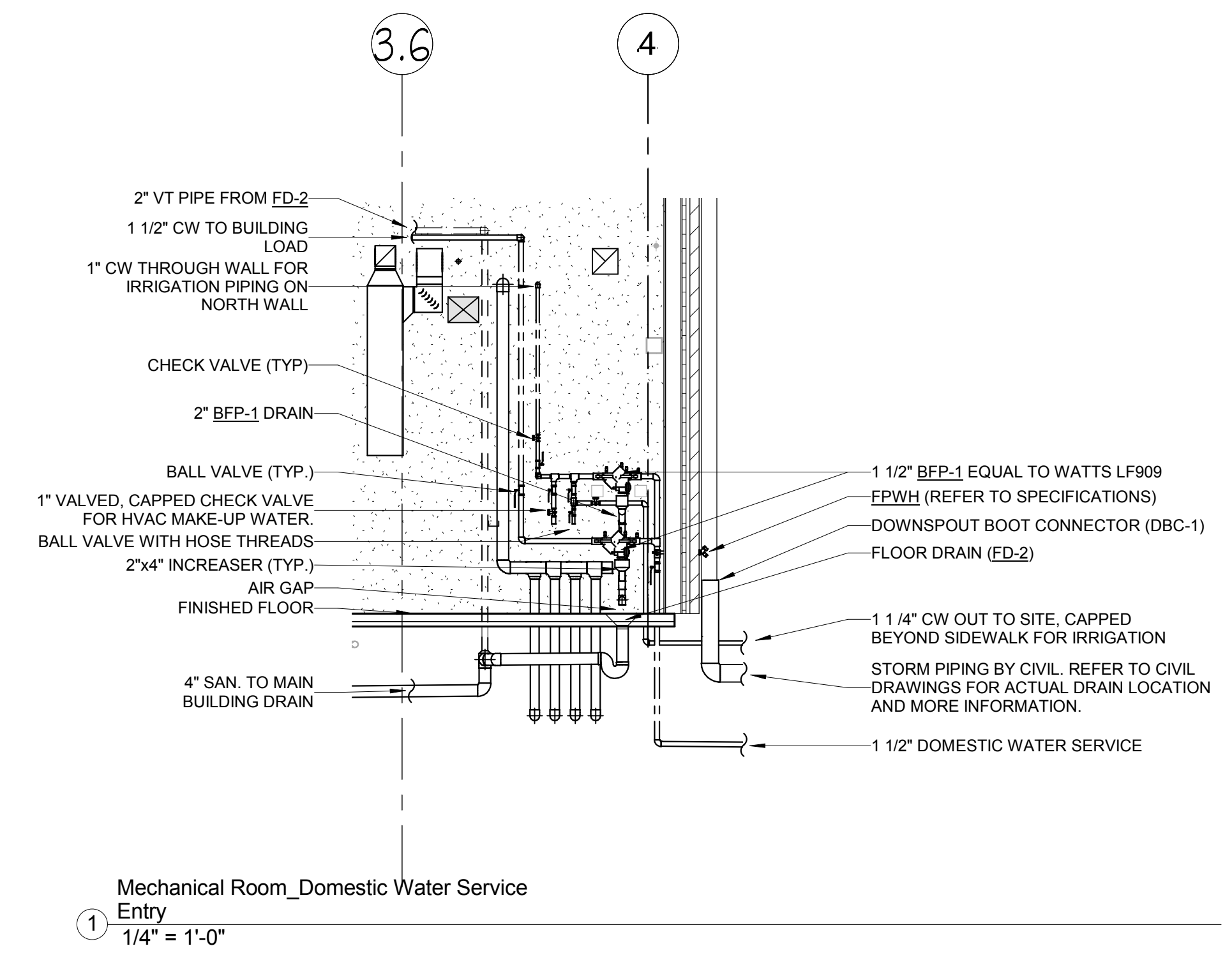
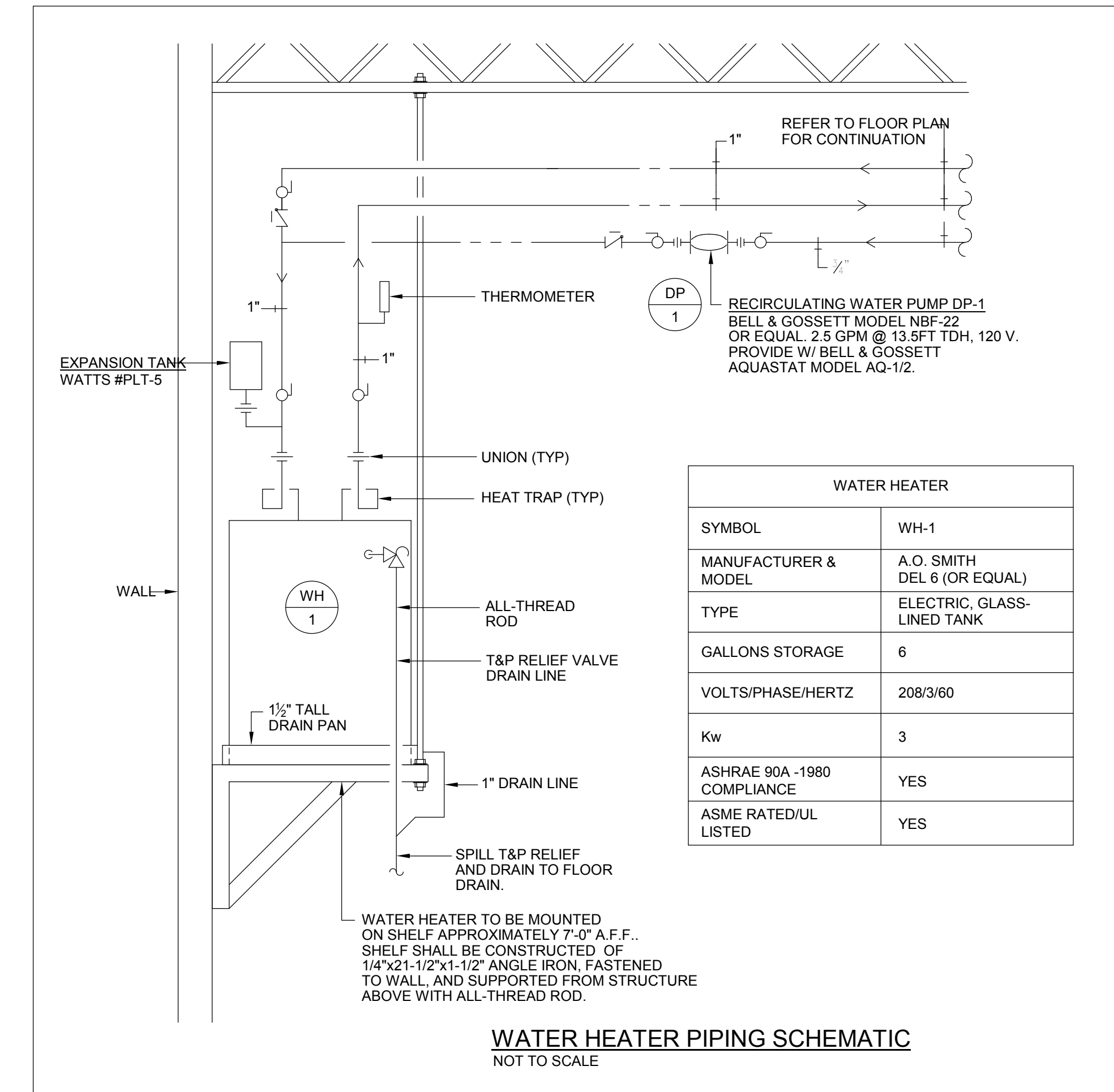
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(502) 292-2100
www.structural-services.com



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Prospect, Kentucky 40059
502.326.3085 • F 502.326.2691
www.cmtagr.com

Indiana
3211 Grant Lane Road Suite 30
New Albany, Indiana 47150
[P] 812.944.2222
[F] 812.944.1122

Kentucky
819 West Main Street, Suite 400
Louisville, Kentucky 40202
[P] 502.581.0570
[F] 502.581.0670

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502.326.3085 • F 502.326.2691
www.cmtaeng.com

ARCHITECTURE
Indiana 3211 Grant Lane Road Suite 30 New Albany, Indiana 47150
Kentucky 819 West Main Street, Suite 400 Louisville, Kentucky 40202
[P] 502.581.0570 [F] 502.581.0670
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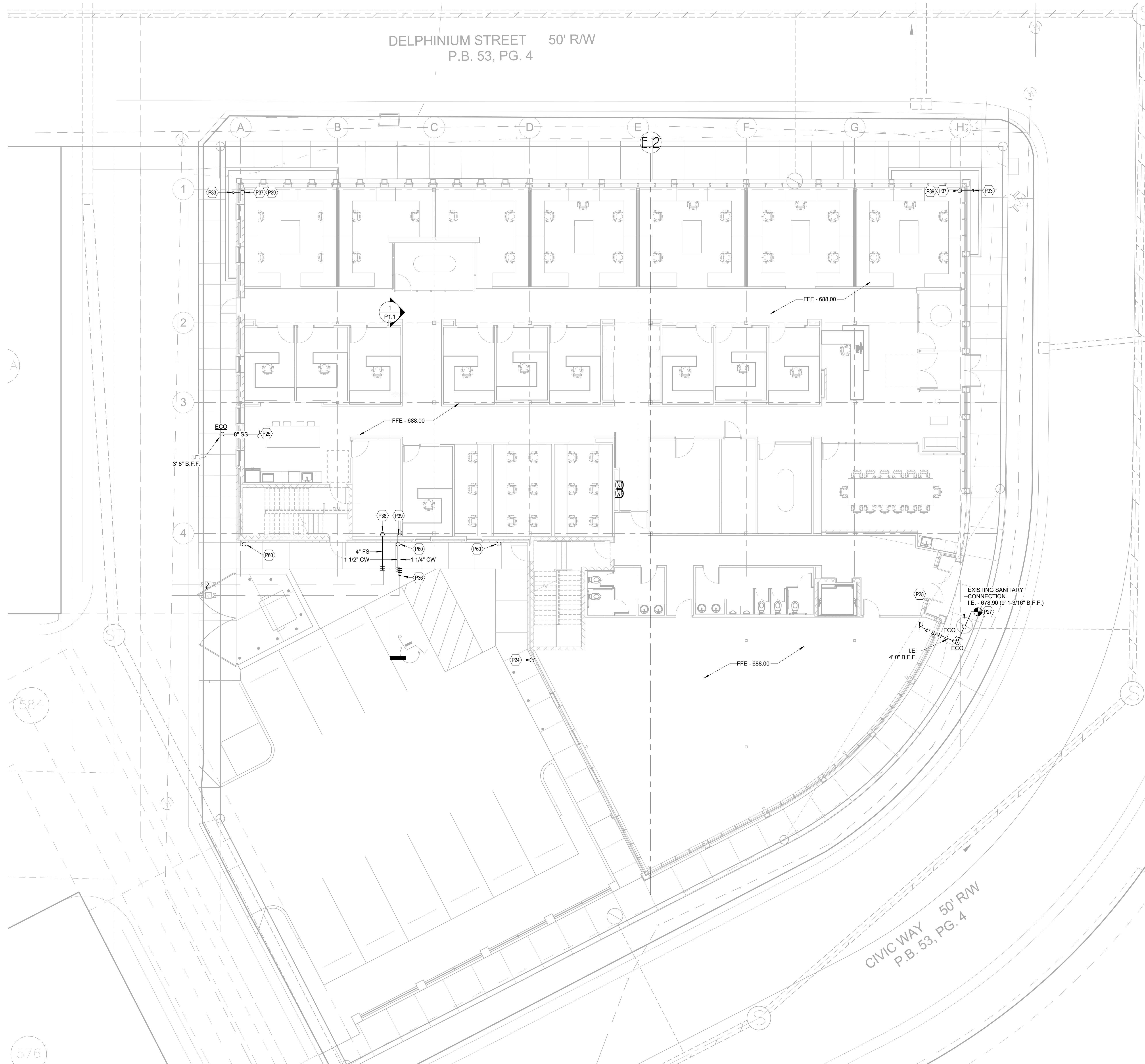
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P2.0



TAGGED NOTES

- P24 TERMINATE 2" PD PIPE TO GRADE.
- P25 REFER TO SHEET P2.1 FOR PIPING CONTINUATION.
- P33 3/4" CW CAPPED BELOW GRADE. REFER TO SITE DRAWINGS ON SHEET P2.0 FOR MORE INFORMATION. COORDINATE EXACT LOCATION AND BURY DEPTH WITH PLANTER AND IRRIGATION CONTRACTOR.
- P36 1 1/4" CW CAPPED BELOW GRADE. COORDINATE EXACT LOCATION AND BURY DEPTH WITH IRRIGATION CONTRACTOR AND SIDEWALK.
- P37 3/4" CW UP IN WALL TO FIXTURES.
- P38 REFER TO SHEET P2.1 FOR PIPING CONTINUATION.
- P39 REFER TO SHEET P2.2 FOR PIPING CONTINUATION.
- P60 PROVIDE DOWNSPOUT BOOT CONNECTION (DBC-1), TO BE MINIMUM 24" CAST IRON, MANUFACTURED BY ZURN, NEENAH OR EQUIVALENT. CONNECTION TO DOWNSPOUT SHALL BE UNGROUTED. COORDINATE EXACT SIZE AND LOCATION WITH DOWNSPOUT AND DOWNSPOUT CONTRACTOR.



10411 Meeting Street, Prospect, Kentucky 40059
502.326.3085 • F 502.326.2691
www.cmtaeng.com

ARCHITECTURE
Indiana 3211 Grant Lane Road Suite 30 New Albany, Indiana 47150
Kentucky 819 West Main Street, Suite 400 Louisville, Kentucky 40202
ARCHITECTURE • Design • Planning
P 502.581.0570
F 502.581.0670

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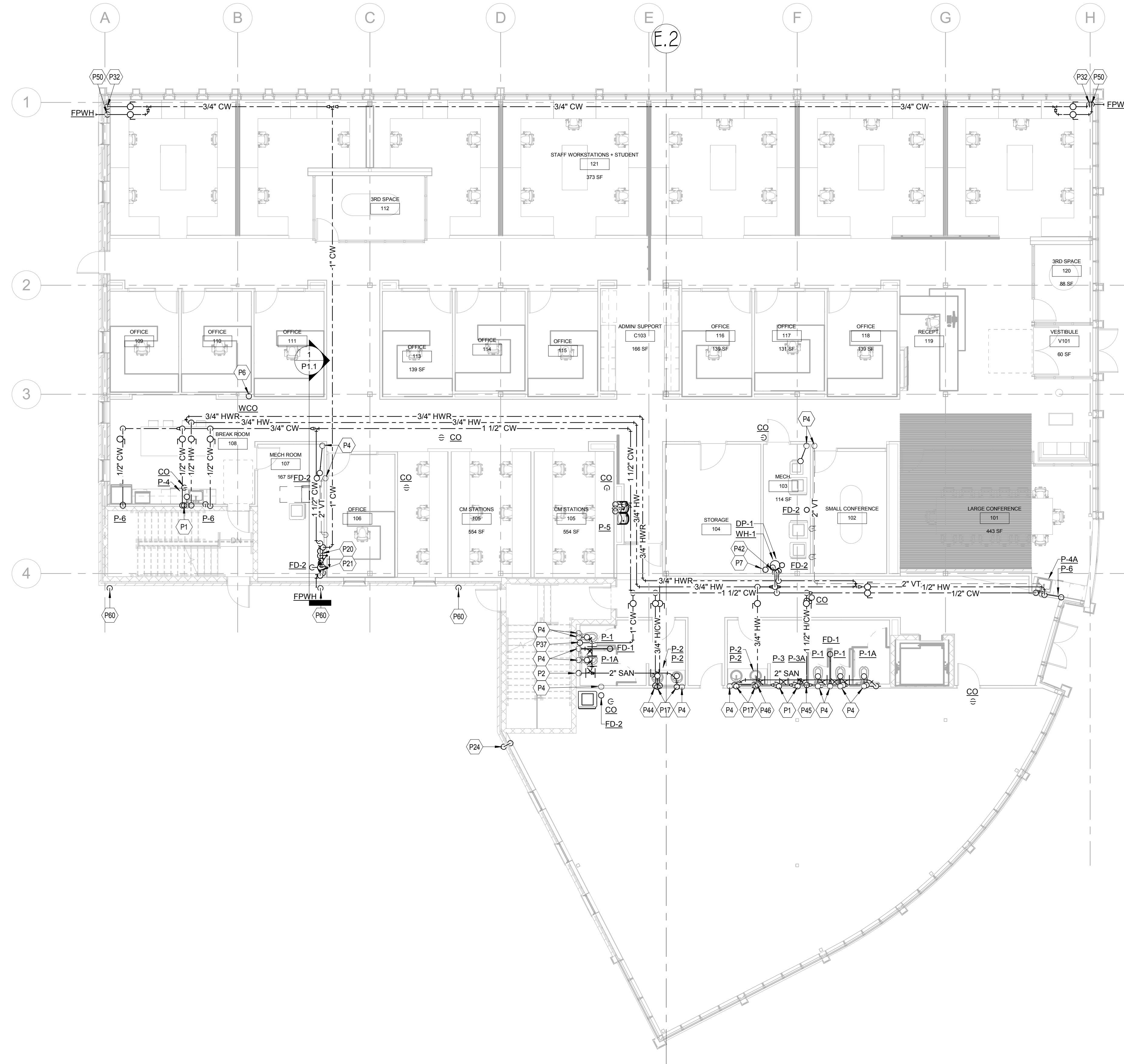
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P2.2

TAGGED NOTES



- P1 2" SAN UP.
- P2 4" SAN DN, 4" VT UP.
- P4 2" VT UP.
- P6 6" RL UP/DN.
- P7 8" RL DOWN, 6" RL UP.
- P17 1-1/2" SAN UP.
- P20 CONTRACTOR TO PROVIDE 1" CHECK VALVE FOR HVAC MAKE-UP WATER AND 1 1/4" CHECK VALVE FOR IRRIGATION PIPING. CONTRACTOR SHALL PROVIDE 1 1/2" BACKFLOW PREVENTER (BFP) EQUAL WATTS LF909 REDUCED PRESSURE BACKFLOW PREVENTER. REFER TO MECHANICAL SHEET M4.0 FOR MORE INFORMATION. REFER TO DOMESTIC WATER SERVICE ENTRY DETAIL ON SHEET P1.0 FOR MORE INFORMATION.
- P21 1 1/2" BFP-1 ON DOMESTIC WATER SERVICE ENTRY EQUAL TO WATTS LF909T REDUCED PRESSURE BACKFLOW PREVENTER. REFER TO MECHANICAL WATER SERVICE ENTRY DETAIL ON SHEET P1.0 FOR MORE INFORMATION.
- P24 TERMINATE 2" PD PIPE TO GRADE.
- P32 3/4" CW DN IN WALL TO BELOW SLAB. REFER TO SHEET P2.1 FOR PIPING CONTINUATION.
- P37 3/4" CW UP IN WALL TO FIXTURES.
- P42 3/4" HW, CW & HWR PIPING TO WH-1 & DP-1 ON SHELF SUPPORTED FROM STRUCTURE APPROXIMATELY 7' A.F.F. TO BASE OF WATER HEATER. REFER TO DETAIL ON SHEET P1.0 FOR MORE INFORMATION.
- P44 1/2" HCW UP IN WALL, DOWN IN WALL TO FIXTURES.
- P45 1 1/2" CW UP IN WALL, DOWN IN WALL TO FIXTURES.
- P46 1/2" HW UP IN WALL, DOWN IN WALL TO FIXTURES.
- P50 3/4" CW DN IN WALL TO FPWH.
- P60 PROVIDE DOWNSPOUT BOOT CONNECTION (DSC-1), TO BE MINIMUM 24" CAST IRON, MANUFACTURED BY ZURN, NEEMAH OR EQUIVALENT. CONNECTION TO DOWNSPOUT SHALL BE UNGROUTED. COORDINATE EXACT SIZE AND LOCATION WITH DOWNSPOUT AND DOWNSPOUT CONTRACTOR.



1 Plumbing - First Floor
1/8" = 1'-0"



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Second Floor Plan - Plumbing

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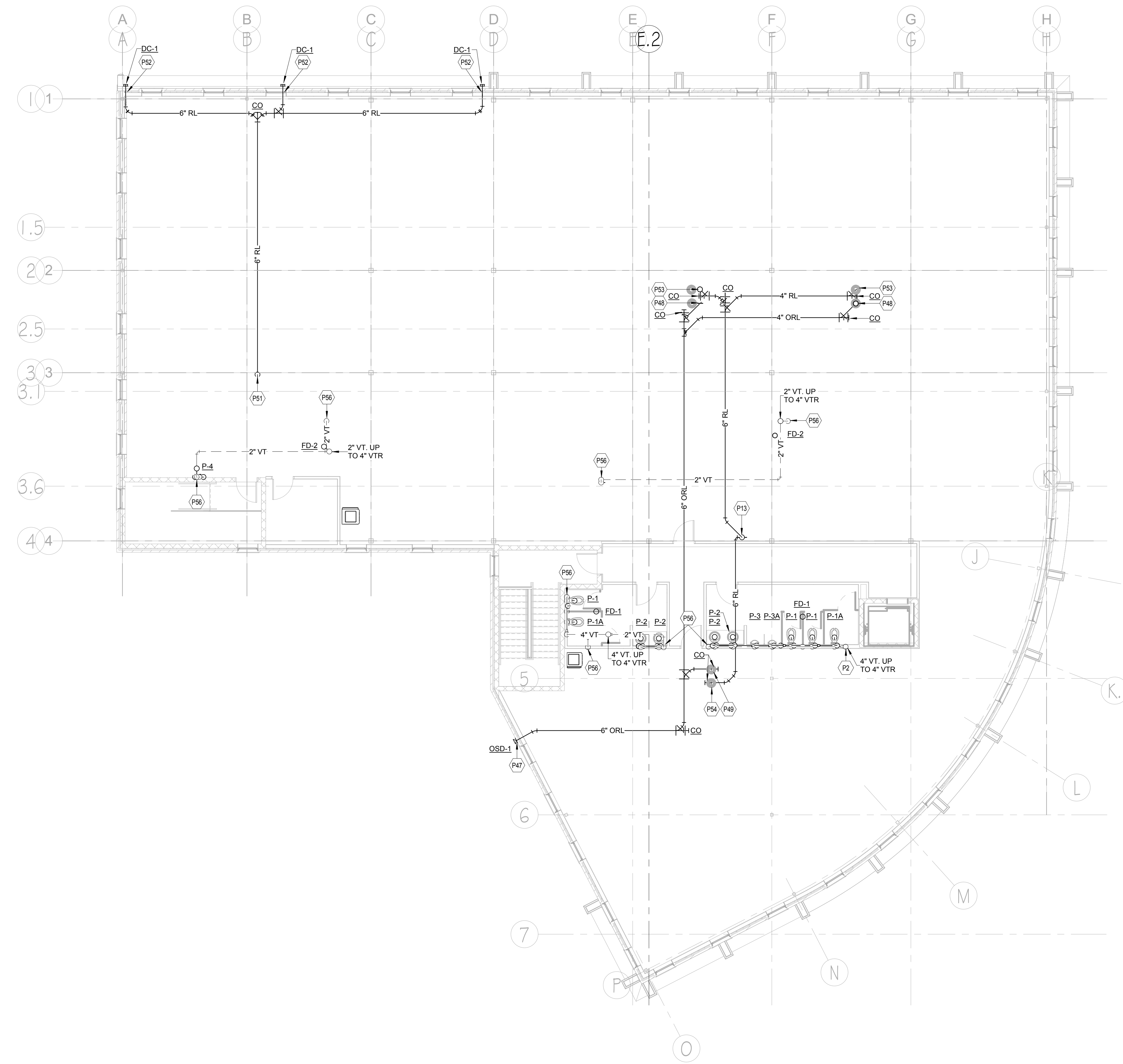
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P2.3

TAGGED NOTES

- P2 4" SAN DN, 4" VT UP.
- P49 6" ORL UP TO ORD-2.
- P52 CONTRACTOR SHALL STUB 6" RL PIPE HIGH THROUGH EXTERIOR WALL FOR CONNECTION TO DOWNSPOUT CONNECTOR (DC-1). COORDINATE FINAL LOCATION OF DC-1 WITH ARCHITECT, ARCHITECTURAL FEATURES, STRUCTURAL MEMBERS, GUTTER/DOWNSPOUT LOCATIONS AND DOWNSPOUT CONTRACTOR.
- P53 4" RL UP TO RD-1.
- P54 6" RL UP TO RD-2.
- P56 2" VT FROM BELOW.



1 Plumbing - Second Floor
 1/8" = 1'-0"



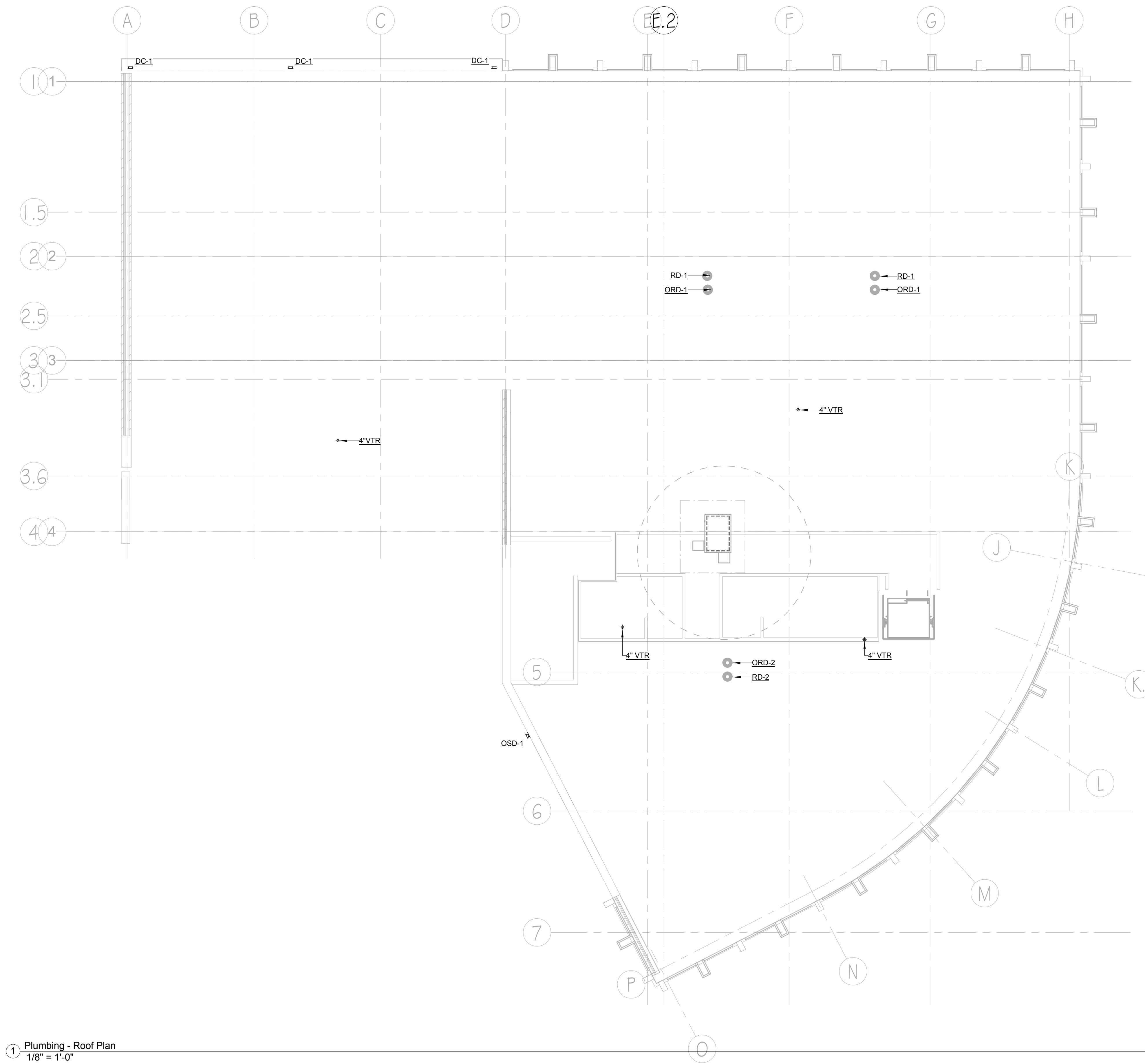
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Roof Plan - Plumbing

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1 Plumbing - Roof Plan
1/8" = 1'-0"



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STRUCTURAL SERVICES, INC.
Post Office Box 485
Coshen, KY 40026
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www.structural-services.com



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Prospect, Kentucky 40059
502 326.3085 • F 502 326.2691
www.cmtagr.com

ARCHITECTURE

Indiana 3211 Grant Lane Road Suite 30
New Albany, Indiana 47150
[P] 812.944.2222 [F] 812.944.1122

Kentucky 819 West Main Street, Suite 400
Louisville, Kentucky 40202
[P] 502.581.0570 [F] 502.581.0670

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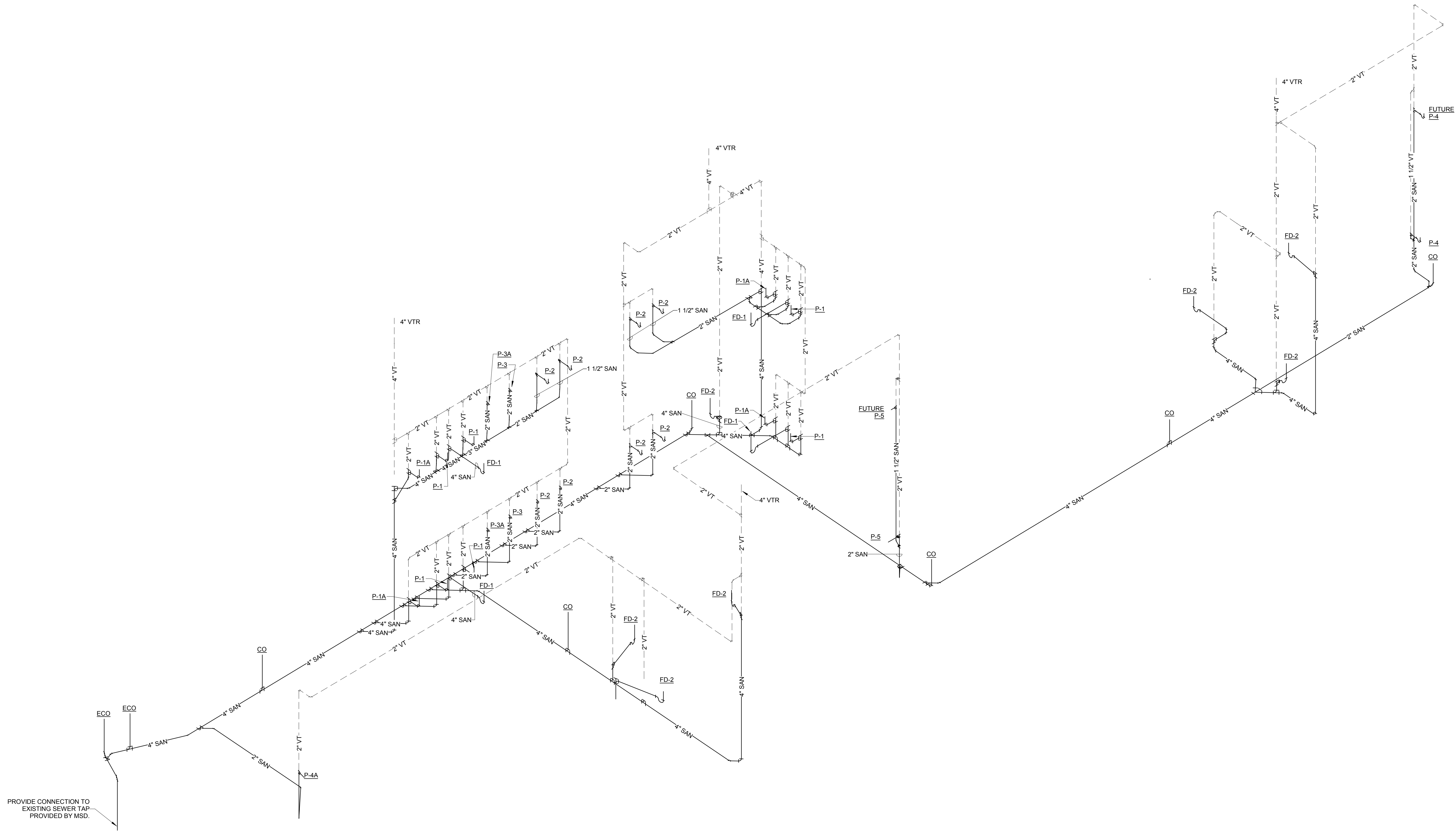
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No. 1001 - 1002 West Main Street, Louisville, Kentucky 40202



STRUCTURAL SERVICES, INC.
Post Office Box 485
Goshen, KY 40026
(502) 292-2100
www.structural-services.com



10411 Meeting Street,
Prospect, Kentucky 40059
502.326.3085 • F 502.326.2691
www.cmtaeng.com


ARCHITECTURE
 Indiana 3211 Grant Lane Road Suite 30
 New Albany, Indiana 47150
 [P] 812.944.2222 [F] 812.944.1122
 Kentucky 819 West Main Street, Suite 400
 Louisville, Kentucky 40202
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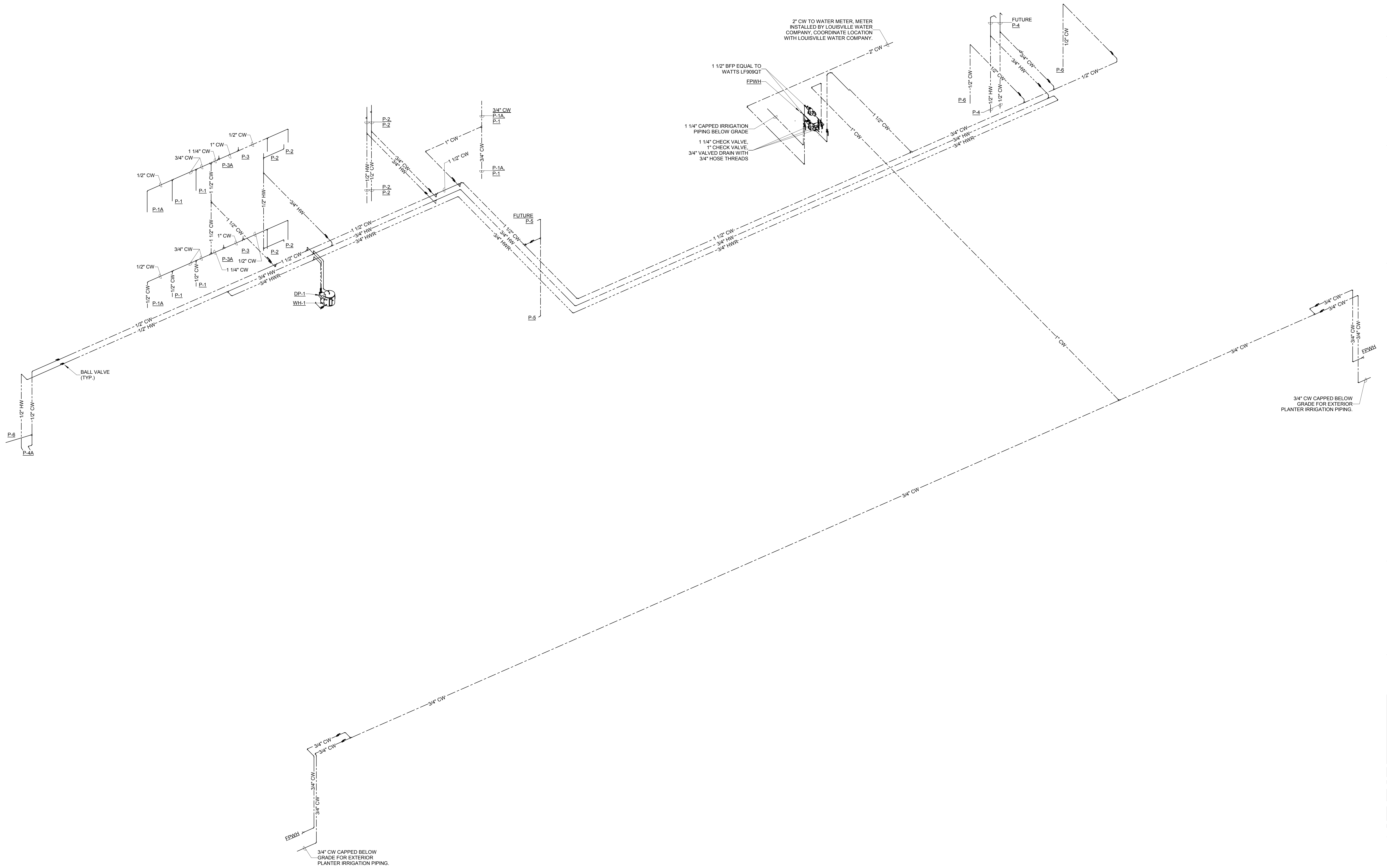
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Plumbing Risers

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10000 Louisville Road, Louisville, Kentucky 40227



STRUCTURAL SERVICES, INC.
Post Office Box 485
Goshen, KY 40026
(502) 292-2100
www.structural-services.com



10411 Meeting Street,
Prospect, Kentucky 40059
502.326.3085 • F 502.326.2691
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Indiana
3211 Grant Lane Road Suite 30
New Albany, Indiana 47150
[P] 812.944.2222 [F] 812.944.1122

Kentucky
819 West Main Street, Suite 400
Louisville, Kentucky 40202
[P] 502.581.0570 [F] 502.581.0670

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DIVISION 22 - PLUMBING

220500 - COMMON WORK RESULTS FOR PLUMBING

- A. SLEEVES AND SLEEVE SEALS - PROVIDE GALVANIZED PIPE SLEEVE, WITH 1" ANNULAR CLEAR SPACE FOR PIPE PENETRATIONS ON INTERIOR WALLS... B. ESCUTCHEONS - PROVIDE ONE PIECE, STAMPED STEEL TYPE WITH CHROME PLATED FINISH AND SPRING CLIPS... C. RATED PENETRATIONS - CONTRACTOR SHALL MAINTAIN THE RATING OF FIRE- AND/OR SMOKE-RATED CONSTRUCTION AT ALL PIPE AND DUCTWORK PENETRATIONS...

201300 - PLUMBING PIPING, PIPE FITTINGS AND PIPE SUPPORTS

SOIL, WASTE AND VENT PIPING (BELOW SLAB)

- A. SERVICE WEIGHT CAST IRON HUB AND SPIGOT PIPING WITH COMPRESSION GASKET JOINTS... B. SCHEDULE 40 PVC WITH SOLVENT WELDED DRAINAGE FITTINGS, CELLULAR CORE PIPING SHALL NOT BE ALLOWED... C. PIPING BELOW SLAB SHALL BE A MINIMUM OF 2" IN SIZE.

SOIL, WASTE AND VENT PIPING (ABOVE SLAB)

- A. SERVICE WEIGHT HUBLESS CAST IRON PIPE WITH MANUFACTURER'S APPROVED BANDS... B. SCHEDULE 40 PVC WITH SOLVENT WELDED DRAINAGE FITTINGS, CELLULAR CORE PIPING SHALL NOT BE ALLOWED... C. SERVICE WEIGHT CAST IRON HUB AND SPIGOT PIPING WITH COMPRESSION GASKET JOINTS.

DOMESTIC COLD, HOT AND RECIRCULATING HOT WATER PIPING (ABOVE SLAB)

TYPE 1 - 1/2" HDG COPPER TUBING WITH WROUGHT COPPER FITTINGS WITH LEAD FREE SOLDER EQUIVALENT IN PERFORMANCE TO 95/5 (MAXIMUM LEAD CONTENT OF SOLDER AND FLUX IS 2%).

CONDENSATE DRAIN LINES: TYPE 1/2" COPPER TUBING WITH SWEAT FITTINGS AND 95/5 SOLDER. SCHEDULE 40 PVC WITH SOLVENT WELDED FITTINGS.

220100 - VALVES FOR PLUMBING PIPING

A. CHECK VALVE (2" AND UNDER): CHECK VALVE SHALL HAVE BRONZE BODY, DISC AND HINGE. CHECK VALVE SHALL BE Y-PATTERN TYPE, HORIZONTAL SWING, RENEWABLE DISC AND RATED FOR 150 PSI WORKING PRESSURE.

220553 - IDENTIFICATION FOR PLUMBING PIPING

A. IDENTIFICATION - PIPING SHALL BE MARKED ON 12FT CENTER TO INDICATE SERVICE AND DIRECTION OF FLOW WITH ANSI A13.1-81 SELF-ADHESIVE, SNAP-ON, OR STRAP-ON MARKERS. VALVE TAGS SHALL BE METAL OR PLASTIC WITH 1/2" HIGH BLACK-FILLED LETTERING.

220529 - HANGERS AND SUPPORTS FOR PLUMBING PIPING

A. ALL PIPING SHALL BE PROPERLY SUPPORTED AND PROVIDED WITH ALL NECESSARY HANGERS AND ACCESSORIES FOR SUPPORT OF HORIZONTAL AND VERTICAL PIPING IN ACCORDANCE WITH MSS, ANSI, AND ASTM STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

A. HANGERS AND SUPPORTS SHALL BE PLACED AS NEAR AS POSSIBLE TO JOINTS, TURNS AND BRANCHES.

B. SUPPORT ALL CEILING HUNG EQUIPMENT WITH APPROVED VIBRATION ISOLATORS.

C. WHERE COPPER TUBING IS SPECIFIED, HANGERS SHALL BE OF COPPER CLAD TYPE WHEN PIPING IS UNINSULATED.

D. UNINSULATED PIPING HUNG FROM ABOVE SHALL BE SUPPORTED WITH RING AND CLEVIS TYPE PIPE HANGERS. UNINSULATED PIPING MOUNTED ON TRAPEZE (WHEN ALLOWED) AND WALL BRACKET TYPE SUPPORT SHALL BE HELD IN PLACE WITH U-BOLTS.

E. ALL INSULATED PIPING SHALL BE SUPPORTED WITH CLEVIS TYPE AND PIPE ROLL HANGERS. HANGERS SHALL BE SIZED TO ALLOW THE PIPE INSULATION TO PASS THROUGH THE HANGERS.

F. SUPPORT STEEL AND COPPER PIPING AT A MINIMUM OF EIGHT (8) FOOT INTERVALS FOR PIPING 3" AND SMALLER AND TEN (10) FOOT INTERVALS FOR LARGER PIPING.

G. WHERE FIREPROOFING IS DISLODGED/DAMAGED FROM THE BUILDING STRUCTURE DUE TO CONTRACTOR'S INSTALLATION OF HANGERS, CLAMPS, ETC., IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ALL DISLODGED/DAMAGED FIREPROOFING TO ORIGINAL FIREPROOFING RATING.

220700 - PLUMBING INSULATION

A. APPLICATION OF INSULATION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. WHERE THICKNESS OF INSULATION IS NOT SPECIFIED, USE APPLICABLE THICKNESS RECOMMENDED BY MANUFACTURER FOR SPECIFIC USE.

B. INSULATION THICKNESSES SHALL COMPLY WITH THE LATEST VERSION OF ASHRAE 90.1 AND IECC AT A MINIMUM.

C. ALL INSULATION SHALL BE CONTINUOUS THROUGH WALLS, CEILING OPENINGS AND SLEEVES. HOWEVER, INSULATION SHALL BE BROKEN THROUGH FIRE WALLS. ALL COVERED PIPE AND DUCTWORK IS TO BE LOCATED A SUFFICIENT DISTANCE FROM WALLS, OTHER PIPE, DUCTWORK AND OTHER OBSTACLES TO PERMIT THE APPLICATION OF THE FULL THICKNESS OF INSULATION SPECIFIED.

D. EXISTING AND/OR NEW INSULATION REMOVED AND/OR DAMAGED DURING COURSE OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

E. FIBER GLASS AND MINERAL FIBER PRE-FORMED PIPE INSULATION - TYPE I, 850 DEG F MATERIALS: GLASS FIBERS BONDED WITH A THERMOSETTING RESIN, COMPLY WITH ASTM C 547, TYPE I, GRADE A, WITH FACTORY-APPLIED ASJ-SSL WITH SELF-SEALING, PRESSURE-SENSITIVE, ACRYLIC-BASED ADHESIVE COVERED BY A REMOVABLE PROTECTIVE STRIP, COMPLYING WITH ASTM C 1136, TYPE I.

- F. PIPE INSULATION SCHEDULE: 1. DOMESTIC WATER - INSULATION SHALL BE 1/2" THICK FOR PIPING UP TO 1-1/4", AND 1" THICK FOR PIPING 1-1/2" AND LARGER AND 1" THICK FOR HOT WATER CIRCULATING PIPING... 2. ADA-ACCESSIBLE LAVATORIES, EXPOSED PIPING - PROVIDE VANDAL-RESISTANT, MOLDED, FLEXIBLE, CLOSED CELL VINYL INSULATION SYSTEM... 3. CONDENSATE DRAIN - INSULATION SHALL BE 1/2" THICK. PROVIDE WITH HEAT TAPE BETWEEN PIPE AND INSULATION.

G. PIPE JACKETING SCHEDULE:

- 1. INDOOR CONCEALED - 30MIL PVC 2. INDOOR EXPOSED - 30MIL PVC

FLOOR DRAINS: PROVIDE FLOOR DRAINS AT LOCATIONS INDICATED AND/OR AS REQUIRED BY STATE PLUMBING/BUILDING CODES. INSTALL IN A NEAT AND WORKMANLIKE MANNER. INSTALL FLOOR DRAINS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE STATE PLUMBING AND BUILDING CODES.

A. INSURE BY COORDINATION WITH THE GENERAL CONTRACTOR THAT SPACES SERVED WITH FLOOR DRAINS ON ALL FLOORS ABOVE THE LOWEST LEVEL HAVE A WATER SEAL EXTENDING AT LEAST THREE (3) INCHES FROM THE FLOOR. ALSO, FOR THESE LOCATIONS, PROVIDE A 36"x36", FOUR (4) POUND SHEET LEAD FLASHING SHEET AND CLAMPING COLLAR OR A 20 MIL CHLORINATED POLYETHYLENE SHOWER PAN LINER.

B. THE FLOOR DRAINS SHALL BE ZURN, JOSAM, SMITH, WADE, WATTS DRAINAGE, ANCON, SIMILAR TO THE FOLLOWING:

- FD-1 - ZURN, ZN-415 FLOOR DRAIN WITH 6" DIA. NICKEL BRONZE STRAINER, TYPE 'B', DURA-COATED CAST IRON BODY WITH BOTTOM 4" OUTLET... FD-2 - ZURN, ZN-511 FLOOR DRAIN WITH 6" DIA. NICKEL BRONZE STRAINER, DURA-COATED CAST IRON DEEP SUMP WITH 4" BOTTOM OUTLET, SEEPAGE PAN AND SEDIMENT BUCKET... RD-1 - ZURN ZC-100-DP 4" OUTLET ROOF DRAIN, SUMP RECEIVER, DECK PLATE, CAST IRON DOME STRAINER... RD-2 - ZURN ZC-100-DP 6" OUTLET ROOF DRAIN, SUMP RECEIVER, DECK PLATE, CAST IRON DOME STRAINER... ORD-1 - ZURN, ZC-100-AW-DP 4" OUTLET WITH CAST IRON DOME, ADJUSTABLE WATER LEVEL REGULATOR, DECK PLATE, CAST IRON BODY... ORD-2 - ZURN, ZC-100-AW-DP 6" OUTLET WITH CAST IRON DOME, ADJUSTABLE WATER LEVEL REGULATOR, DECK PLATE, CAST IRON BODY... OSD-1 ZURN, ZARB-199-SS 6" OUTLET DOWNSPOUT NOZZLE, ALL ROUGH BRONZE BODY, THREADED INLET AND DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE, WITH REMOVABLE STAINLESS STEEL SCREEN... DBC-1 - ZURN Z191-RD DOWNSPOUT BOOT.

C. THE ROOF DRAINS SHALL BE ZURN, JOSAM, SMITH, WADE, WATTS DRAINAGE, ANCON, SIMILAR TO THE FOLLOWING:

PLUMBING FIXTURES, FITTINGS AND TRIM

A. ALL FIXTURES AND TRIM SHALL BE NEW. ALL FIXTURES AND TRIM SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. ALL FIXTURES SHALL BE SET LEVEL AND TRUE AND SHALL BE GROUDED INTO FINISHED WALLS, FLOORS, ETC. IN A NEAT AND WORKMANLIKE MANNER WITH AN APPROVED WATERPROOF NON-YELLOWING GROUT FOR SUCH SERVICE.

B. ALL EXPOSED PIPING, STOPS, TRAPS, TAILPIECES, ETC. SHALL BE CODE APPROVED CHROME PLATED BRASS UNLESS OTHERWISE INDICATED OR SPECIFIED. WHERE ACID RESISTANT PIPING IS INDICATED ON THE DRAWING OR THE SPECIFICATIONS, ALL PIPING AND ANCILLARY COMPONENTS SHALL BE ACID RESISTANT AS SPECIFIED AND REQUIRED BY CODE.

C. WATER SUPPLIES SHALL CONNECT THROUGH WALLS WITH STOPS AND CHROME PLATED ESCUTCHEONS WITH SET SCREWS. IN GENERAL, FURNISH DRINKING FOUNTAINS, WALL-HUNG LAVATORIES AND HOSE BIBBS WITH MANUAL LOOSE KEY STOP VALVES.

P-1 WATER CLOSET - PRESSURE ASSISTED FLUSH TANK, FLOOR MOUNTED - STANDARD HEIGHT ZURN MODEL Z5561, VITREOUS CHINA, SIPHON JET, CLOSE COUPLED, TWO PIECE, ELONGATED BOWL, BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH CHECK HINGE.

P-1A WATER CLOSET - PRESSURE ASSISTED FLUSH TANK, FLOOR MOUNTED - ADA COMPLIANT ZURN MODEL Z5561, VITREOUS CHINA, 18" HIGH, SIPHON JET, CLOSE COUPLED, TWO PIECE, ELONGATED BOWL, BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH CHECK HINGE.

P-2 LAVATORY - UNDERMOUNT - ADA COMPLIANT ZURN MODEL Z5220, 19"X19" VITREOUS CHINA, UNDERMOUNT LAVATORY, OVAL BASIN, FRONT OVERFLOW. PROVIDE LAVATORY DRAIN WITH INTEGRAL PERFORATED STRAINER, 3/8" ANGLE RIGID SUPPLIES WITH STOPS AND P-TRAP. LAVATORY TRIM SHALL BE AS FOLLOWS: BATTERY POWERED SENSOR FAUCET SHALL BE ZURN MODEL Z8930-XL WITH POLISHED CHROME PLATED CAST BRASS FAUCET BODY.

P-3 URINAL - STANDARD HEIGHT ZURN MODEL 5798, 235.00 VITREOUS CHINA, WASHOUT ACTION, 1/2" TOP SPUD, 2" I.P.S. OUTLET FLANGE AND GASKET. PROVIDE URINAL WITH ZURN MODEL ZER8003AV-LF ULTRA HIGH EFFICIENCY BATTERY POWERED FLUSH VALVE, CHROME PLATED.

P-3A URINAL - ADA COMPLIANT ZURN MODEL 5798, 235.00 VITREOUS CHINA, WASHOUT ACTION, 1/2" TOP SPUD, 2" I.P.S. OUTLET FLANGE AND GASKET. PROVIDE URINAL WITH ZURN MODEL ZER8003AV-LF ULTRA HIGH EFFICIENCY BATTERY POWERED FLUSH VALVE, CHROME PLATED.

P-4 SINK - UNDERMOUNT COUNTERTOP BOWL MODEL RECTANGULAR 19" X 16" UNDERMOUNT BOWL, SINK COLOR SHALL BE IVORY WHITE. PROVIDE SINK DRAIN WITH GRID STRAINER, 3/8" CHROME SUPPLIES STOPS, TAILPIECE, P-TRAP, DRAIN AND GOOSENECK FAUCET WITH WRIST BLADE HANDLES SHALL BE ZURN MODEL Z812B4-3F WITH POLISHED ESCUTCHEONS. PROVIDE SINK DRAIN WITH DISHWASHER WYE, TAILPIECE, AIRGAP, AND 1/2" RUBBER HOSE. COORDINATE AIRGAP COLOR WITH OWNER. SINK TRIM SHALL BE AS FOLLOWS: CHROME-PLATED CAST BRASS FAUCET BODY ON 4" CENTERS WITH QUARTER TURN CERAMIC DISC CARTRIDGES AND 5-3/8" SWING GOOSENECK SPOUT. FURNISH WITH 0.5 GPM VANDAL-RESISTANT AERATOR AND 4" COLOR-CODED METAL WRIST BLADE HANDLES. PROVIDE VALVED WATER LINE THROUGH CABINET FOR DISHWASHER. PROVIDE BRASS MPT/COMPRESSION ELBOW AT DISHWASHER WATER INLET.

P-4A SINK - UNDERMOUNT COUNTERTOP BOWL - CONFERENCE ROOM MODEL RECTANGULAR 19" X 16" UNDERMOUNT BOWL, SINK COLOR SHALL BE IVORY WHITE. PROVIDE SINK DRAIN WITH WITH GRID STRAINER, 3/8" CHROME SUPPLIES STOPS, TAILPIECE, P-TRAP, DRAIN AND ESCUTCHEONS. SINK TRIM SHALL BE AS FOLLOWS: GOOSENECK FAUCET WITH WRIST BLADE HANDLES SHALL BE ZURN MODEL Z812B4-3F WITH POLISHED CHROME-PLATED CAST BRASS FAUCET BODY ON 4" CENTERS WITH QUARTER TURN CERAMIC DISC CARTRIDGES AND 5-3/8" SWING GOOSENECK SPOUT. FURNISH WITH 0.5 GPM VANDAL-RESISTANT AERATOR AND 4" COLOR-CODED METAL WRIST BLADE HANDLES.

P-5 BI-LEVEL ELECTRIC WATER COOLER - BOTTLE FILLER - ADA

ELKAY MODEL #RCL85C ELECTRIC WATER COOLER, 7.8 GPH OF 50°F WATER AT 90°F ROOM TEMPERATURE AND 80°F ENTERING WATER; VANDAL RESISTANT 14 GAUGE SATIN FINISH STAINLESS STEEL BASIN AND HOUSING, 1/5 HP COMPRESSOR, 115/PHASE60 HZ. MOUNTING HEIGHT SHALL BE PER ADA GUIDELINES FOR CHILDREN UNDER THE AGE OF 12. PROVIDE WITH LOOSE KEY MANUAL SHUT-OFF AT WALL. FURNISH AND INSTALL WITH PLASTIC P-TRAP. WHERE WATER COOLERS ARE NOT INSTALLED IN AN ALCOVE, FURNISH AND INSTALL AN ELKAY MODEL 98234C CANE APRON ACCESSORY. REFERENCE FLOOR PLANS FOR EXACT NUMBER OF WATER COOLERS NOT INSTALLED IN AN ALCOVE. PROVIDE UNIT WITH BOTTLE FILLER.