

LAYOUT NOTES

- 1 PAY CONNECTION FEES FOR 2" DOMESTIC / 6" FIRE WATER SERVICE AND METER. DOMESTIC SERVICE TO PLUG OFF FIRE SERVICE EXTERNAL OF BUILDING.
- 2 1.5" TYPE K COPPER IRRIGATION LINE TO HAVE SEPARATE METER INTERNAL TO THE BUILDING. MAINTAIN MIN. 5.0' COVER.
- 3 3/4" CW TO DUMPSTER POST HYDRANT (TYPE K COPPER). MAINTAIN MIN. 5.0' COVER.
- 4 CONNECTION TO EXIST. 8" SANITARY MAIN. CONTRACTOR TO VERIFY INVERT AT TIE IN LOCATION PRIOR TO ORDERING STRUCTURES. SEE SANITARY TAGS FOR INFO.
- 5 4" OR 6" CLEAN OUT (SEE DETAIL). CLEANOUT SHALL BE FLUSH W/ PAVEMENT & INSTALLED UNDER A PROTECTIVE METAL BOX COVER SIMILAR TO A METER PIT COVER WITH A TRAFFIC BEARING LID.
- 6 PRECAST 1500 GAL. CAPACITY GREASE TRAP. PLUMBING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR. TOP OF MANHOLE TO BE 0.2' ABOVE FINISH GRADE AND MATCH SIDEWALK GRADES WHERE REQUIRED. VERIFY GREASE TRAP MEETS CITY/COUNTY SPECIFICATIONS PRIOR TO INSTALLATION. REFER TO PLUMBING PLAN, SHEET P-101.
- 7 6" KITCHEN WASTE LINE (SEE SANITARY TAGS FOR INFO)
- 8 3" VENT LINE. CONNECT TO GREASE INTERCEPTOR. (SEE SHEET P-101 FOR LOCATION)
- 9 6" RESTROOM WASTE LINE (SEE SANITARY TAGS FOR INFO)
- 10 4" OR 6" TWO-WAY CLEAN OUT (REFER TO PLUMBING PLANS)(SEE DETAIL)
- 11 DUMPSTER POST HYDRANT. REFER TO THE FIXTURE CONNECTION SCHEDULE (P-303) DEPICTED ON THE PROJECT PLUMBING PLANS.
- 12 DOWNSPOUT FOR ROOF DRAINAGE (REFER TO ARCHITECTURAL PLANS)
- 13 PROPOSED GAS SERVICE (SEE NOTE 19)
- 14 COORDINATE GAS METER INSTALLATION WITH GAS COMPANY.
- 15 8" PVC SDR 26 ROOF DRAIN PIPE SYSTEM (CONNECT TO SITE STORM DRAIN)
- 16 UNDERGROUND PRIMARY ELECTRIC SERVICE. (SEE NOTE 21)
- 17 UNDERGROUND PRIMARY TELEPHONE SERVICE. (SEE NOTE 20)
- 18 UNDERGROUND SECONDARY ELECTRIC SERVICE TO BUILDING. (SEE NOTE 21)
- 19 PROPOSED PAD MOUNTED TRANSFORMER PER ELECTRIC COMPANY STANDARDS. SEE SERVICE UTILITY NOTES, THIS SHEET.
- 20 CFA FIRE SERVICE CONNECTION. CONNECT TO EXISTING 12" DUCTILE IRON WATER MAIN VIA TAPPING SLEEVE AND VALVE. CONTRACTOR TO VERIFY LOCATION, DEPTH, AND SIZE OF THE EXISTING WATER MAIN PRIOR TO ORDERING MATERIALS. NOTIFY ENGINEER WITH ANY DISCREPANCIES.
- 21 6" CLASS 52 DUCTILE IRON PIPE - FIRE SERVICE. MAINTAIN MIN. 5.0' COVER.
- 22 UNDERGROUND ISP SERVICE (SEE NOTE 22)
- 23 INSTALL TRANSFORMER PAD (SEE NOTE 21)
- 24 EXISTING 12" WATER MAIN. CONTRACTOR TO VERIFY LOCATION, DEPTH, AND SIZE OF EXISTING WATER MAIN PRIOR TO ORDERING MATERIALS.
- 25 6" PVC SDR 26 - SANITARY SERVICE PIPE
- 26 1.5" GAS SERVICE LINE TO DRIVE-THRU CANOPY
- 27 6" PVC SDR 26 CANOPY DRAIN SYSTEM (CONNECT TO SITE STORM DRAIN)
- 28 2" B-BOX & ISOLATION VALVE - DOMESTIC SERVICE
- 29 6" B-BOX VALVE
- 30 2" TYPE K COPPER DOMESTIC SERVICE LINE
- 31 FIRE DEPARTMENT CONNECTION. FDC SHALL CONFORM TO CITY SPECIFICATIONS.
- 32 PROPOSED FIRE HYDRANT WITH AUXILIARY VALVE
- 33 6" CLASS 52 DUCTILE IRON PIPE - FIRE HYDRANT LEAD. MAINTAIN MIN. 5.0' COVER.
- 34 PROPOSED PRIMARY PEDESTAL (BY UTILITY PROVIDER)

UTILITY NOTES

1. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR DUTY SERVICE SIZES AND EXACT LOCATIONS. CONTRACTOR TO CONFIRM SIZES OF ALL SERVICES PRIOR TO INSTALLATION. REFER TO ELECTRICAL PLANS FOR ELECTRIC AND TELEPHONE SERVICE CONSTRUCTION DETAILS. REFER TO MECHANICAL PLANS FOR GAS SERVICE CONSTRUCTION DETAILS.
2. FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
3. PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETE.
4. MAINTAIN A MINIMUM OF 5.0' COVER OVER ALL WATER MAINS.
5. MAINTAIN A MINIMUM OF 3.0' COVER OVERALL SANITARY SEWER.
6. ADJUST ALL MANHOLES AND FRAMES TO FINISHED GRADES.
7. ALL SANITARY SEWER AND WATER SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MICHIGAN CITY.
8. 18" MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY/STORM SEWER AND WATER MAIN. (PER IDEM STANDARD).
9. MAINTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND PUBLIC WATER MAINS.
10. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY CALL INDIANA 811 AT 811 OR 1-800-382-5544 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
11. LOCATION OF SITE UTILITIES SHALL BE VERIFIED WITH PROPER UTILITY COMPANY PROVIDING SERVICE.
12. ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END.
13. SEE SITE SPECIFICATIONS "UNDERGROUND UTILITIES" FOR BACKFILLING AND COMPACTION REQUIREMENTS.
14. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
15. ELECTRICAL SERVICE TO PAD MOUNTED TRANSFORMER SHALL BE RUN UNDERGROUND, FROM ROAD RIGHT-OF-WAY TO TRANSFORMER LOCATION. ASSOCIATED COST BY GENERAL CONTRACTOR.
16. ALL EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
17. FOR EXACT LIGHT POLE LOCATIONS SEE PHOTOMETRICS PLAN.
18. MATERIAL PERMITTED FOR USE AS SANITARY SEWER PIPES SHALL FOLLOW CITY OF MICHIGAN CITY REQUIREMENTS.
19. NIPSCO WILL FURNISH AND INSTALL THE GAS MAINS AND GAS SERVICE UP TO AND INCLUDING THE METER. IF PAVING IS COMPLETE PRIOR TO GAS SERVICE INSTALLATION, CONTRACTOR TO PROVIDE (1) 4" SCHEDULE 40 PVC CONDUIT UNDER PAVED AREAS.
20. CONTRACTOR TO FURNISH AND INSTALL (1) 4" SCHEDULE 40 PVC CONDUITS FOR TELEPHONE SERVICE FROM RIGHT-OF-WAY TO BUILDING. AT&T TO SUPPLY, PROVIDE AND INSTALL PRIMARY TELEPHONE SERVICE. CONDUITS TO BE INSTALLED A MINIMUM 24" BELOW FINISHED GRADE.
21. CONTRACTOR TO FURNISH AND INSTALL (2) 4" SCHEDULE 40 PVC CONDUITS WITH PULL WIRE FOR PRIMARY ELECTRIC SERVICE. NIPSCO TO PROVIDE AND INSTALL PRIMARY ELECTRIC SERVICE. CONTRACTOR TO FURNISH AND INSTALL (4) 4" SCHEDULE 40 PVC CONDUITS WITH PULL WIRE FOR SECONDARY ELECTRIC SERVICE. CONDUITS SHALL HAVE A MINIMUM OF 36" OF COVER. CONTRACTOR TO PROVIDE AND INSTALL TRANSFORMER PAD IN ACCORDANCE WITH NIPSCO SPECIFICATIONS AND REQUIREMENTS. TRANSFORMER PAD SHALL BE INSTALLED TO FINAL GRADE AND LEVELED. CONTRACTOR TO PROVIDE AND INSTALL SECONDARY CONDUCTORS IN ACCORDANCE WITH NIPSCO SPECIFICATIONS AND REQUIREMENTS.
22. CONTRACTOR TO FURNISH AND INSTALL (1) 3" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FOR ISP SERVICE FROM RIGHT-OF-WAY TO BUILDING. AT&T TO SUPPLY, PROVIDE AND INSTALL ISP SERVICE. CONDUIT TO BE INSTALLED MINIMUM 24" BELOW FINISHED GRADE.
23. ALL SANITARY SEWER CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE CITY OF MICHIGAN CITY.
24. ALL CONNECTIONS TO PUBLIC SANITARY SEWERS SHALL BE CORE DRILLED.
25. DUCTILE IRON PIPE WATER SERVICE PIPE SHALL HAVE POLYETHYLENE WRAP PER CITY STANDARDS

MISCELLANEOUS NOTES:

- ALL BUILDING UTILITY SERVICE LOCATIONS TO BE VERIFIED W/ ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- FOR EXACT LIGHT POLE LOCATIONS SEE PHOTOMETRICS PLAN
- AT LEAST ONE WEEK PRIOR TO ANY CONSTRUCTION WITHIN PUBLIC R.O.W./ EASEMENTS AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTACT THE CITY OR INDOT TO OBTAIN APPLICABLE PERMITS.

ONSITE WATERLINE NOTES:

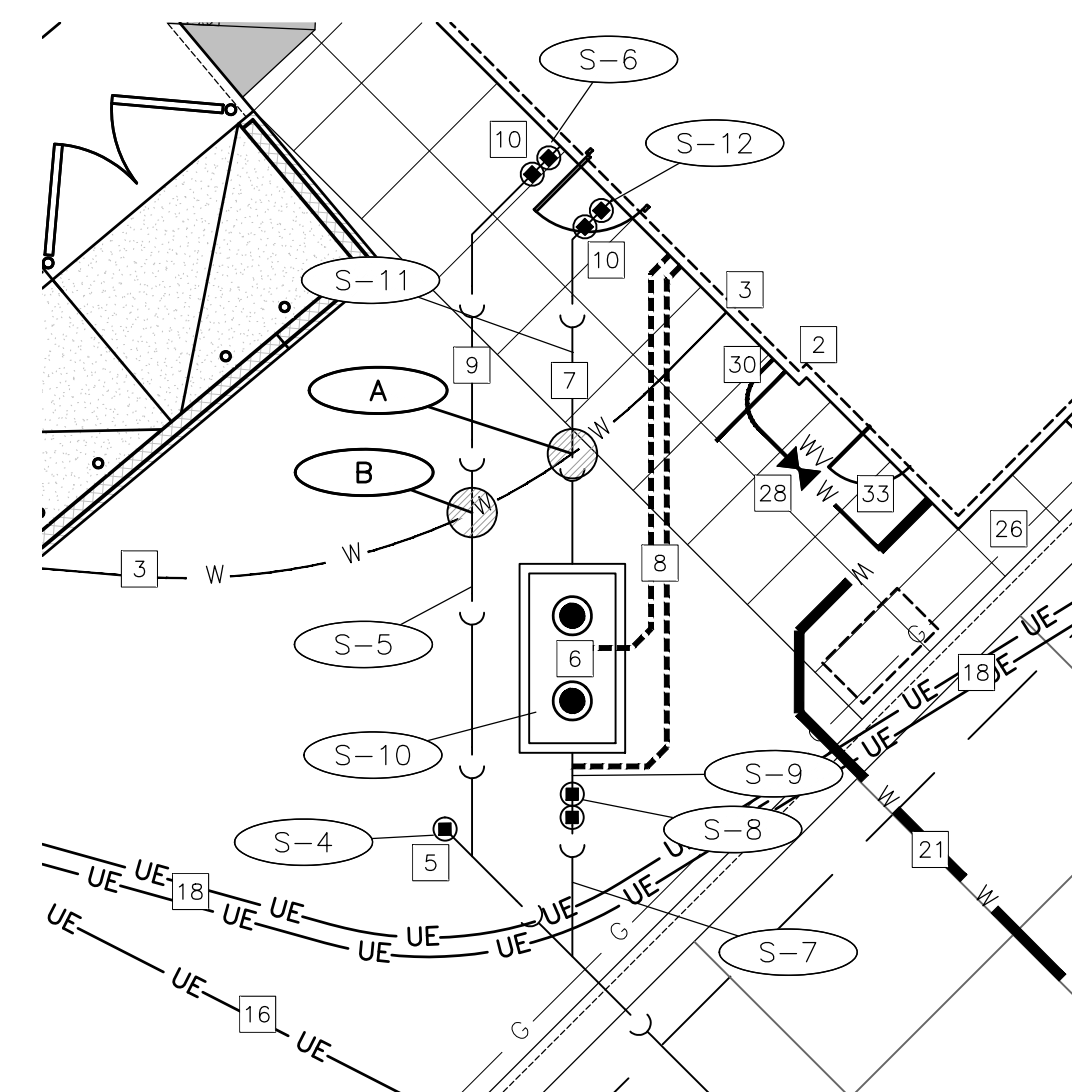
- THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS.
- ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED AUXILIARY GATE VALVE.
- ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
- ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
- ALL 6" DIAMETER WATER SERVICE PIPE SHALL BE DUCTILE IRON CLASS 52 PIPE.
- ALL 2" DIAMETER AND SMALLER WATER SERVICE PIPE SHALL BE TYPE K COPPER.



CALL INDIANA 811
1-800-382-5544

WITH THE FOLLOWING:
COUNTY LAPORTE COUNTY
CITY-TOWNSHIP CITY OF MICHIGAN CITY - MICHIGAN TOWNSHIP
SEC. & 1/4 SEC. NO.# SB 137N R4W

48 hours before you dig
(Excluding Sat., Sun. & Holidays)



S-# SANITARY SEWER TAGS
* REFER TO SHEET PS-101 FOR TAG INFO

A CONFLICT TAGS
* REFER TO SHEET PS-101 FOR TAG INFO

○ DENOTES MAINTAIN 18" VERTICAL SEPARATION PER IDEM'S REQUIREMENTS



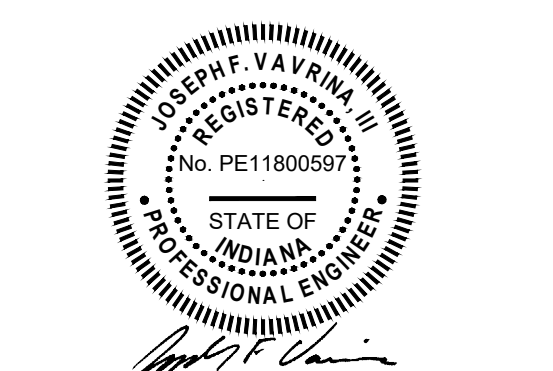
BAR IS ONE INCH ON OFFICIAL DRAWINGS
1" = 20'
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	05/28/24	ISSUED FOR PERMIT
2	07/24/24	ISSUED FOR CONSTRUCTION
3	07/25/24	PER NIPSCO



ENGINEER'S PROJECT # **2402239**
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SHEET **PLUMBING SITE PLAN**

SHEET NUMBER **PS-100**



Chick-fil-A

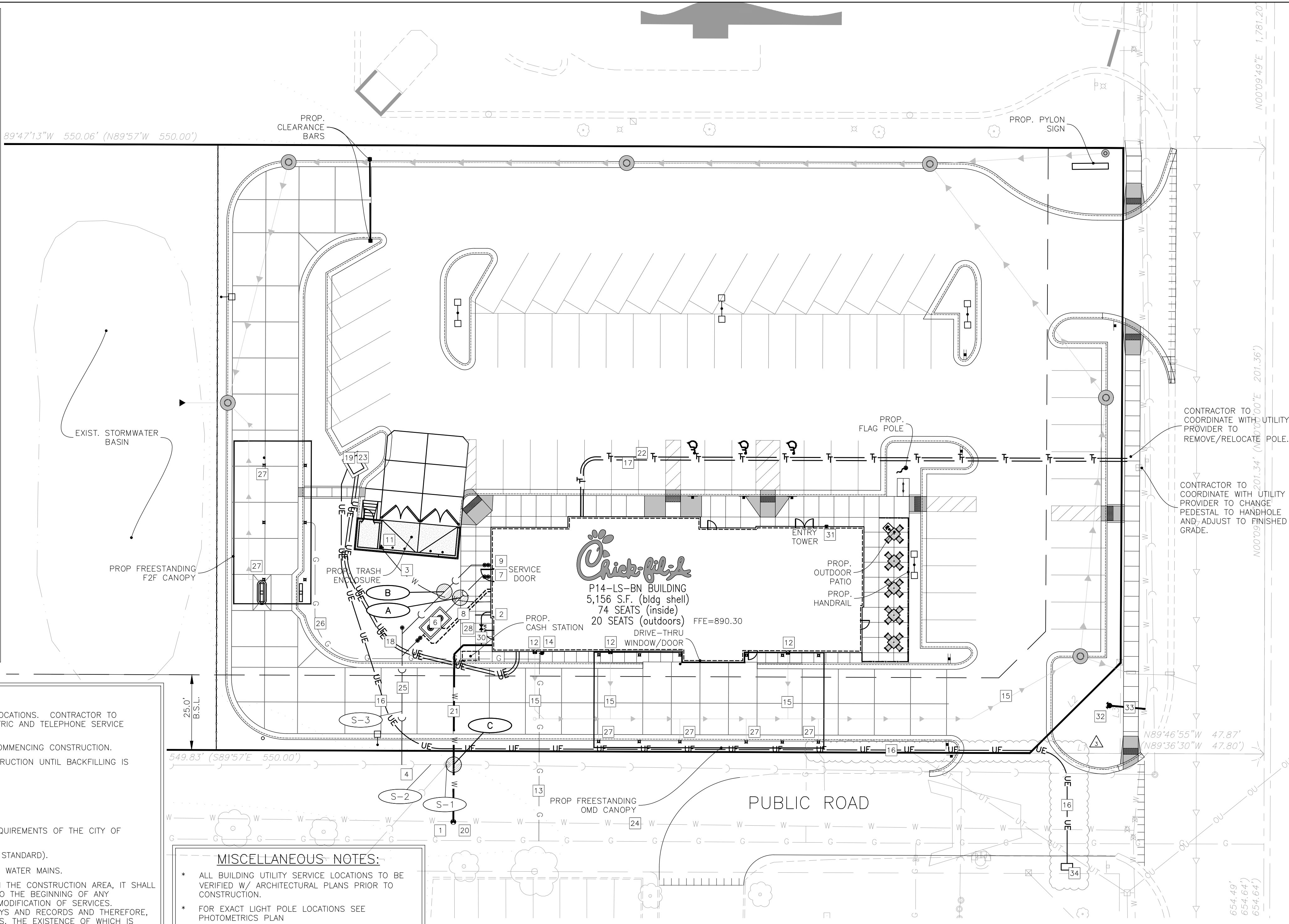
Chick-fil-A
5200 Buffington Road
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HRGreen.com
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CHICK-FIL-A
MICHIGAN CITY (IN) FSU
5809 FRANKLIN STREET
MICHIGAN CITY, IN 46360

FSR# 05893

FRANKLIN STREET (US RTE 421)



ST-# STORM SEWER TAGS

ST-1	FES RCP, 18" INV = 655.74	ST-23	23 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00% @ 1.00%
ST-2	14 LIN FT SS RCP, 18" @ 0.29%	ST-24	CLEANOUT (SEE DETAIL) RIM = 661.05 INV = +/- 659.50
ST-3	78 LIN FT SS RCP, 18" @ 0.29%	ST-25	67 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%
ST-4	STM SWR CB (4") DIA, R-3235 TY A GRATE RIM = 658.85 INV = 656.00 E 18" RCP INV = 656.00 SW 18" RCP	ST-26	6 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%
ST-5	108 LIN FT SS RCP, 18" @ 0.30%	ST-27	STM SWR CB (4") DIA, R-3235 TY A GRATE RIM = 658.55 INV = 655.78 NE 18" RCP INV = 655.78 W 18" RCP INV = 656.62 SE 6" PVC
ST-6	STM SWR CB (4") DIA, R-3235 TY A GRATE RIM = 659.25 INV = 656.32 E 18" RCP INV = 656.32 W 18" RCP	ST-28	56 LIN FT SS ADS N-12 WT, 6" @ 0.71%
ST-7	96 LIN FT SS RCP, 18" @ 0.29%	ST-29	NYLOPLAST DRAIN BASIN 12" DIA., DOME GRATE RIM = 658.75 INV = 657.00 W 6" ADS
ST-8	STM SWR CB (4") DIA, R-3235 TY A GRATE RIM = 659.30 INV = 656.60 W 18" RCP INV = 656.60 S 12" RCP INV = 656.60 E 6" ADS	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>NOTE: * ALL STORM STRUCTURES WITHIN PAVED AREAS REQUIRE WEEP HOLES. SEE DETAILS 51 & 52 ON SHEET C-404 FOR WEEP HOLE DETAILS.</p> </div>	
ST-9	93 LIN FT SS RCP, 12" @ 0.30%		
ST-10	STM SWR CB (4") DIA, R-3235 TY A GRATE RIM = 659.45 INV = 656.88 NW 12" RCP INV = 656.88 S 12" RCP		
ST-11	82 LIN FT SS RCP, 12" @ 0.29%		
ST-12	STM SWR CB (4") DIA, R-3235 TY A GRATE RIM = 659.70 INV = 657.12 SW 8" ADS INV = 657.12 N 12" RCP INV = 657.22 E 8" ADS		
ST-13	16 LIN FT SS ADS N-12 WT, 8" @ 4.88%		
ST-14	EXIST. STM INLET (BEEHIVE LID) EXIST. RIM = 657.54 PROP. RIM = 659.92 INV = 655.24 E 12" RCP INV = 656.44 W 8" ADS		
ST-15	EXIST. STM INLET RIM = 659.65 INV = 655.15 E 12" RCP INV = 655.15 W 12" RCP		
ST-16	185 LIN FT SS PVC, 8" SDR 26 @ 0.75%		
ST-17	6 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%		
ST-18	23 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%		
ST-19	6 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%		
ST-20	6 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%		
ST-21	23 LIN FT SS PVC ROOF DRAIN, 8" SDR 26 @ 1.00%		
ST-22	6 LIN FT SS PVC CANOPY DRAIN, 6" SDR 26 @ 1.00%		

S-# SANITARY SEWER TAGS

S-1	EXIST. SAN MH RIM = 659.43 INV = 654.93 E 8" INV = 655.13 W 8" INV = 655.03 SW 8"
S-2	EXIST. 15 LF SAN SWR MAIN, 8" @ 0.45% (ASSUMED)
S-3	46 LIN FT SAN SERVICE, 6" PVC SDR 35 @ 1.00%
S-4	6" CLEANOUT (TYPE 3, SEE DETAIL) RIM = 661.40 INV = 655.66
S-5	39 LIN FT SAN SERVICE, 6" PVC SDR 35 @ 1.00%
S-6	6" CLEANOUT (TYPE 2, SEE DETAIL) RIM = 661.70 INV = 656.05
S-7	8 LIN FT SAN SERVICE, 6" PVC SDR 35 @ 1.00%
S-8	6" CLEANOUT (TYPE 2, SEE DETAIL) RIM = 661.45 INV = 655.63
S-9	3 LIN FT SAN SERVICE, 6" PVC SDR 35 @ 1.00%
S-10	GREASE TRAP (1,500 GAL.) SEE BUILDING PLUMBING PLAN FOR DETAILS RIM(S) = 661.60 N, 661.50 S INV = 655.76 (INLET) INV = 655.66 (OUTLET)
S-11	20 LIN FT SAN SERVICE, 6" PVC SDR 35 @ 1.00%
S-12	6" CLEANOUT (TYPE 2, SEE DETAIL) RIM = 661.70 INV = 656.86

A CONFLICT TAGS

A	PROP. 3/4" WATER SERVICE BOP = 656.92 SANITARY SEWER TAG S-11 TOP = 656.35 VERT SEP = 1.50' MIN. LOWERING REQ'D
B	PROP. 3/4" WATER SERVICE BOP = 656.79 SANITARY SEWER TAG S-11 TOP = 656.38 VERT SEP = 1.50' MIN. LOWERING REQ'D
C	EXIST. SANITARY SEWER BOP = 654.18 PROP. 6" WATER SERVICE TOP = 654.61 VERT SEP = 1.50' MIN. LOWERING REQ'D



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998



CHICK-FIL-A
MICHIGAN CITY (IN) FSU
5809 FRANKLIN STREET
MICHIGAN CITY, IN 46360

FSR# 05893

ISSUED FOR CONSTRUCTION

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1	05/28/24	ISSUED FOR PERMIT
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3	07/25/24	PER NIPSCO
4	08/09/24	PER INDOT
5	08/22/24	PER ENGINEER



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SHEET

UTILITY TAGS

SHEET NUMBER

PS-101

FOR CONSTRUCTION

DIVISION 15 SPECIFICATIONS

PART I - PRODUCTS

1.01 GENERAL REQUIREMENTS

A. THE FOLLOWING SPECIFICATIONS ARE THE MINIMUM REQUIREMENT. WHERE FEDERAL, STATE OR LOCAL REQUIREMENTS DIFFER FROM THIS SPECIFICATION, THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED.

1.02 SCOPE

A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.

B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE "K" SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE JOINED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHIEF.

F. OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

H. ALL SANITARY WASTE VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMACELL A/P ARMAFLEX WITH MINIMUM 3/4" WALL THICKNESS.

L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.

N. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

O. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT".

PART II - EXECUTION

2.01 TRENCHING

A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.

B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 4" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT 1/4" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2

H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

J. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

2.03 TESTING

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC

A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN, ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.

B. ALTERNATES TO ZURN FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH, WATTS, MODEL NUMBERS LISTED ON FIXTURE SCHEDULE.

C. ALL FIXTURES NOTED ABOVE AND IN THE PLUMBING FIXTURE SCHEDULE SHALL BE PROVIDED THROUGH A NATIONAL ACCOUNT PROGRAM WITH HJC.

3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES

A. PREFERRED FIXTURES: TOTO. NO EXCEPTION.

B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS.

C. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.

D. FLUSH VALVES AND LAVATORY FAUCETS: TOTO MANUFACTURING. NO SUBSTITUTIONS ALLOWED.

E. REFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENEKE.

F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

PLUMBING GENERAL NOTES

DRAIN WASTE AND VENT NOTES

1. COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.

2. COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.

3. ALL UNDERGROUND VENT PIPING TO BE 2" DIAMETER MIN U.N.O.

4. ALL BELOW SLAB SANITARY AND GREASE WASTE PIPING SHALL BE 3" DIAMETER U.N.O.

WATER DISTRIBUTION NOTES

1. FOR WATER HEATER INSTALLATION POSITION VALVES AND TRIM SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SUCH THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.

2. ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.

3. SEE KITCHEN DRAWINGS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS AND ELEVATIONS.

4. WATER HEATER PIPING IS SHOWN FOR BRADFORD WHITE. ADJUST PIPING AS NEEDED TO ACCOMMODATE OTHER CONNECTION POINTS WHEN ALTERNATE MODELS ARE PROVIDED.

5. ALL OVERHEAD WATER PIPING SHALL BE LOCATED ABOVE THE CEILING. RUN WATER PIPING THROUGH JOIST WEBBING. COORDINATE ALL DROP LOCATIONS WITH OTHER TRADES.

BEVERAGE CONDUIT NOTES

1. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN FOUR (4)-6" DIA SCH 40 PVC DWV CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS. SEE 1/P-101 AND 1/P-104 FOR BELOW-SLAB BEVERAGE CONDUIT.

2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-101 FOR LOCATION OF AC UNITS AND DUCT ROUTING.

3. TURN THE 6" DIA CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING WHERE SHOWN ON PLANS.

4. FOR BEVERAGE CONDUIT DROPS AT WALLS WITH SHEATHING EXTENDED ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.

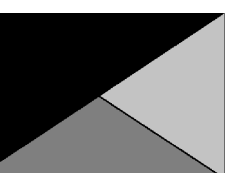
5. INSTALL CONTINUOUS CONDUIT FROM CO2 FILL-BOX LOCATION TO BULK CO2 TANK AS SHOWN ON PLANS AND DETAILS. COORDINATE 4" CONDUIT WALL STUB INSTALLATION CLOSELY WITH GENERAL CONTRACTOR AND BRICK MASON. PRIOR TO COVERING UP OF CONDUIT, VERIFY WITH GENERAL CONTRACTOR THE FULL LENGTH OF FILL/VENT TUBING MAY BE INSTALLED AND SUBSEQUENTLY REMOVED FROM CONDUIT. SEE PLAN ON 1/P-104 AND DETAIL 9/P-501.

ABBREVIATIONS	
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
O.C.	ON CENTER
FS	FLOOR SINK
FD	FLOOR DRAIN
FV	FLUSH VALVE
FCO	FLOOR CLEAN OUT
WC	WATER CLOSET
KEQ	KITCHEN EQUIPMENT

LEGEND	
-----	DOMESTIC COLD WATER LINE (DASHED)
-----	DOMESTIC HOT WATER LINE (DOUBLE DASHED)
-----	DOMESTIC HOT WATER RETURN LINE (DOUBLE DOT)
-----	DOMESTIC FILTERED WATER LINE (DASH DOT)



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SHEET PLUMBING SPECIFICATIONS, GENERAL NOTES & LEGENDS

SHEET NUMBER

P-001

7/23/2024 1:29:35 PM Autodesk Docs://N_05893_Michigan City FSU_2024.3_FSR05893_Michigan City FSU_PLB.rvt 40-LS-05893-P-101-DRAIN WASTE AND VENT PLAN

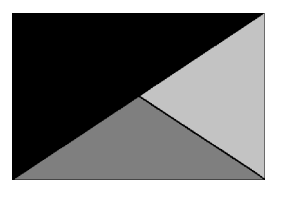
KEY NOTES

- 17 APPLY RAYCHEM XL-TRACE, MODEL 5XL-1, SELF REGULATING HEATING CABLE. USE END SEAL KIT FROM MFR. PROVIDE P-TRAP IN CONDENSATE DRAIN ON COOLER SIDE OF COOLER-FREEZER PANEL WALL WITH OPEN-TOPPED TEE AT TRAP OUTLET. PROVIDE 6" OF FALL IN FREEZER DRAIN LINE PRIOR TO PENETRATING PANEL WALL.
- 30 LOCATION OF GREASE INTERCEPTOR SHOWN FOR REFERENCE ONLY - SEE DETAIL SHEET FOR MORE INFORMATION. SEE CIVIL DRAWINGS FOR ACTUAL LOCATION OF THE GREASE INTERCEPTOR ON SITE.
- 31 INSTALL FLOOR DRAIN FD-5 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.
- 39 PROVIDE TRAP SEAL PROTECTION DEVICE.
- 59 3/4" CONDENSATE PIPING OUT OF COOLER AND EXTEND OUTLET TO INDIRECT DRAIN. SECURE PIPING TO COOLER/FREEZER WALL WITH RUBBER INSULATED PIPE CLAMPS TO PREVENT GALVANIC CORROSION. SEAL ALL PENETRATIONS IN WALLS WITH PERMAGUM CORD. TERMINATE ABOVE FUNNEL WITH ELBOW AND AIR GAP.
- 67 INSTALL PIPING TIGHT TO WALL SO AS NOT TO INTERFERE WITH COOLER AND FREEZER SHELVES. PROVIDE UNION FITTINGS IMMEDIATELY DOWNSTREAM OF CONNECTION TO EVAPORATORS. ALL CONDENSATE PIPING SHALL BE SLOPED A MIN. 1/4" PER FOOT.
- 68 3/4" TYPE L COPPER. COVER WITH 1-3/8" I.D. X 3/4" ARMACELL A/P ARMAFLEX OVER HEAT TRACE CABLE.
- 74 INSTALL TRAP IN CONDENSATE PIPE.
- 97 SEE CIVIL DRAWINGS FOR CONTINUATION.



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SHEET
DRAIN WASTE AND VENT PLAN
SHEET NUMBER
P-101

NO INTERIOR OR BELOW SLAB PLUMBING FORWARD OF THIS AREA.

XXX KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE ON DWG K-801 / 802 AND P-601 FOR EQUIPMENT DESCRIPTIONS.

CAP PLUMBING INSIDE WALL/BELOW SLAB FOR FUTURE RESTROOM. FIELD COORDINATE.

1 DRAIN WASTE AND VENT PLAN
1/4" = 1'-0"

NOTE OF SPECIAL IMPORTANCE:

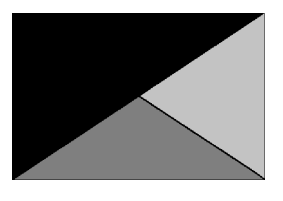
BELOW-SLAB BEVERAGE CONDUIT SHALL BE 6" DIAMETER SCHED 40 DWV SOLID WALL, NO FOAM CORE ALLOWED. USE LONG RADIUS ELBOWS ON ALL BEVERAGE CONDUIT. PLEASE NOTE BEVERAGE CONDUIT ROUGH-IN LOCATIONS ARE MEASURED TO THE FRACTION OF AN INCH. CARE MUST BE TAKEN WHEN INSTALLING 6" DIAMETER CONDUIT LOCATED WITHIN A 2X8 WALL. THE MARGIN FOR ERROR IS ONLY 1/16TH INCH.

NOTES ABOUT (0,0) BENCHMARK ORIGIN

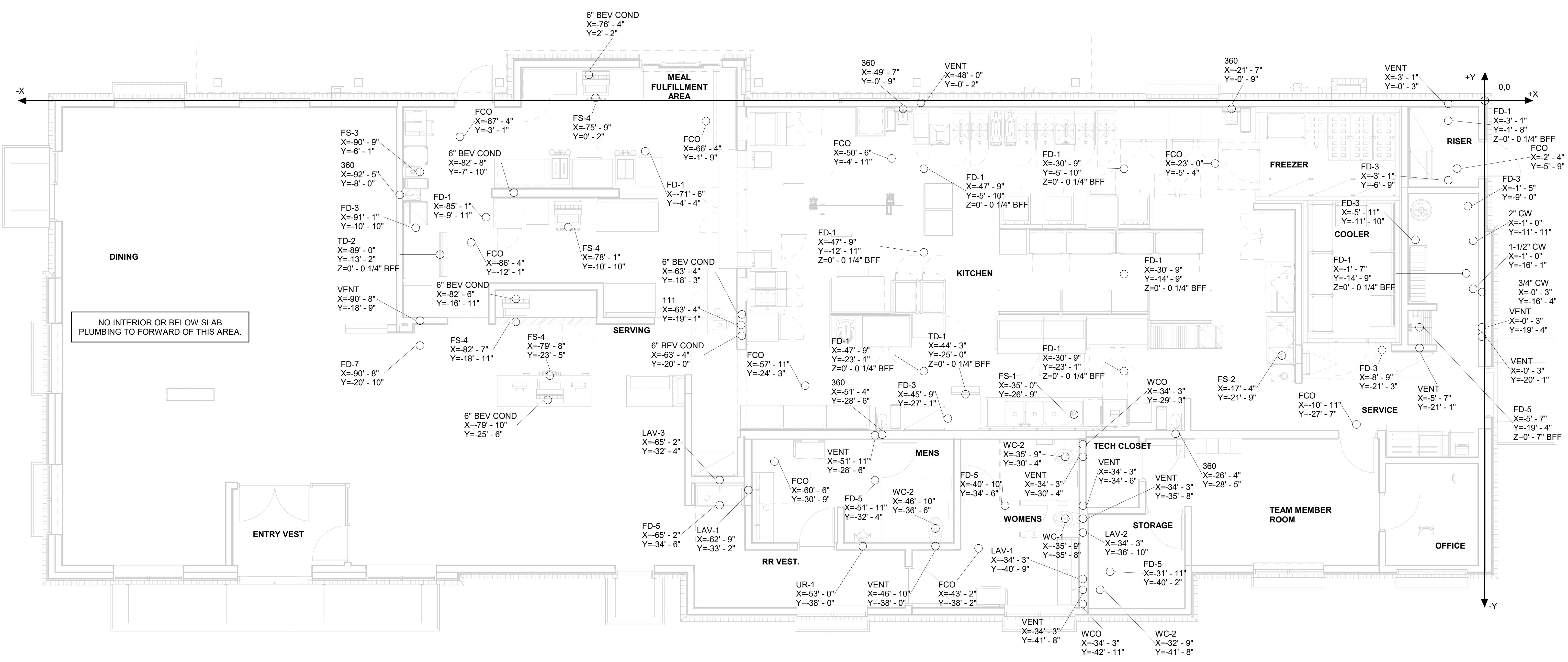
1. THE (X=0, Y=0) BENCHMARK ORIGIN IS LOCATED AT THE OUTSIDE FACE-OF-FRAMING FOR THE EXTERIOR WALL AT THE CORNER WHERE SHOWN.
2. IT IS EXTREMELY IMPORTANT FOR THE PLUMBING INSTALLER TO BECOME COMPLETELY FAMILIAR WITH THE FACE-OF-FRAMING POSITION AND ITS RELATION TO THE FLOOR SLAB CONSTRUCTION PRIOR TO BEGINNING THE UNDERSLAB PLUMBING ROUGH-IN.
3. PLUMBING CONTRACTOR SHALL REVIEW STRUCTURAL DETAILS FOR PRECISE LOCATION OF FACE-OF-FRAMING WITH RESPECT TO THE SLAB INSTALLATION PRIOR TO LOCATING SLAB ROUGH-INS.



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SHEET UNDERGROUND ROUGH-IN PLAN
SHEET NUMBER

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1 UNDERGROUND ROUGH-IN PLAN
1/4" = 1'-0"

7/23/2024 1:29:44 PM Autodesk Docs://N_05893_Michigan City FSU_2024.3_FSR05893_Michigan City FSU_PLB.rvt 40-LS-05893-P-103-WATER DISTRIBUTION PLAN

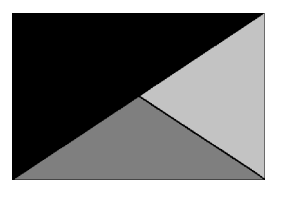
KEY NOTES

- 1 1" DIAMETER PVC DRAIN FROM BACKFLOW PREVENTER PANEL. CONNECT 1" PVC TO FACTORY PROVIDED COUPLING MOUNTED ON BACK PANEL. ROUTE TO DRAIN AT END OF BAG-N-BOX. MOUNT PIPING TIGHT TO WALL WITH STRUT AND CLAMP.
- 2 GAS DOWN FROM ROOF FOR WATER HEATER. SEE MECHANICAL ROOF PLANS FOR CONTINUATION AND PIPE SIZE.
- 6 1/2" HW AND CW DROPS TO MOP SINK FAUCET (F-3) WITH VACUUM BREAKER FOR DEDICATED CONNECTION TO ECOLAB DETERGENT DISPENSER. INSTALL SHUT OFF AND CHECK VALVE IN HOT AND COLD WATER PIPE ABOVE CEILING. MOUNT AS SHOWN ON K-SHEETS. SEE WATER DISTRIBUTION ISOMETRIC.
- 8 1/2" FW FOR TWO TEA BREWERS AND ONE COFFEE MAKER. SEE DETAILS SHEET FOR MORE INFORMATION.
- 10 2" CW ON WALL. SEE DETAILS SHEET FOR EXACT ROUTING LOCATIONS OF CW PIPING IN THIS AREA.
- 13 3/4" FW DOWN. SEE KITCHEN DRAWINGS FOR LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE WATER DISTRIBUTION ISOMETRIC.
- 26 FW FROM WATER FILTERS. SEE DETAIL SHEET FOR MORE INFORMATION.
- 27 1/2" CW DOWN TO RETHERMALIZER.
- 33 OWNER FURNISHED, PLUMBER INSTALLED STOP/BFP PANEL. SEE KITCHEN DRAWINGS FOR LOCATION AND ELEVATION. PROVIDE EXPOSED 3/4" BALL VALVE AT CONNECTION TO PANEL. ROUTE 1" PVC DRAIN FROM FACTORY PANEL DRAIN CONNECTION TO DRAIN AT END OF BEVERAGE RACK AND TERMINATE WITH ELBOW AND AIR GAP.
- 34 OWNER FURNISHED, PLUMBER INSTALLED WATER FILTERS. SEE DETAIL SHEET FOR MORE INFORMATION.
- 35 HOSE BIBB 24" ABOVE EXTERIOR GRADE. VERIFY WALL THICKNESS AT EXTERIOR HOSE BIBB PRIOR TO ORDERING (TYP).
- 66 FIRE SPRINKLER RISER SHOWN FOR REFERENCE ONLY.
- 72 3/4" FW DOWN TO STOP(S) AT ICE MAKER(S). SEE DETAIL SHEET FOR MORE INFORMATION.
- 73 1/2" TEPID WATER TO EYEWASH #360E.
- 97 SEE CIVIL DRAWINGS FOR CONTINUATION.



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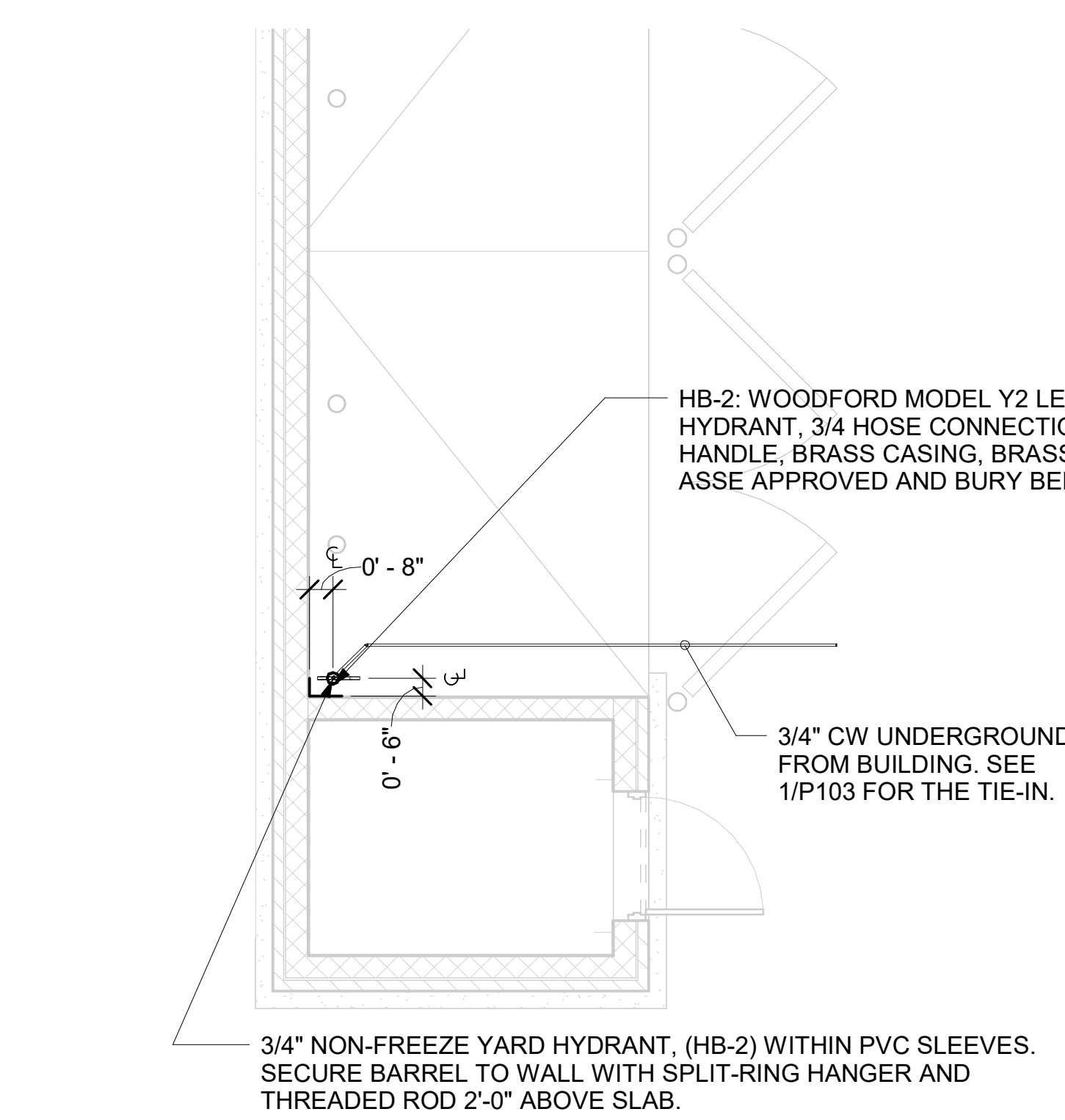
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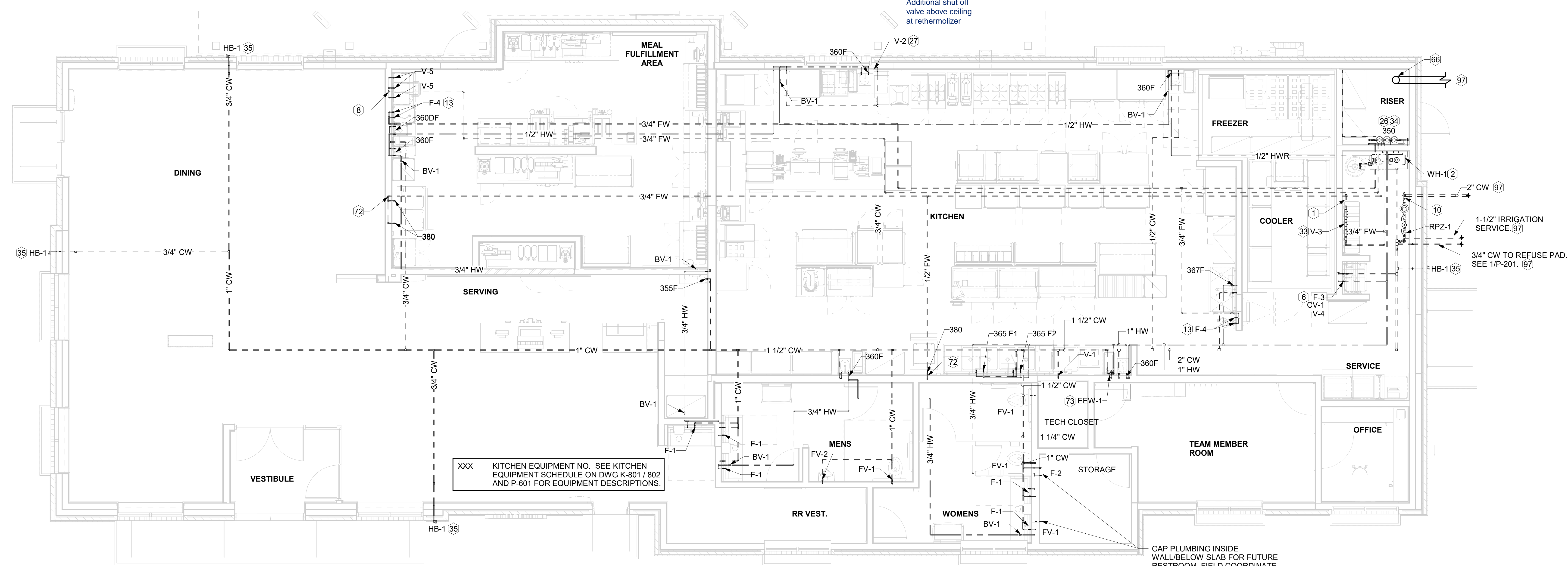
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 SHEET WATER DISTRIBUTION PLAN
 SHEET NUMBER

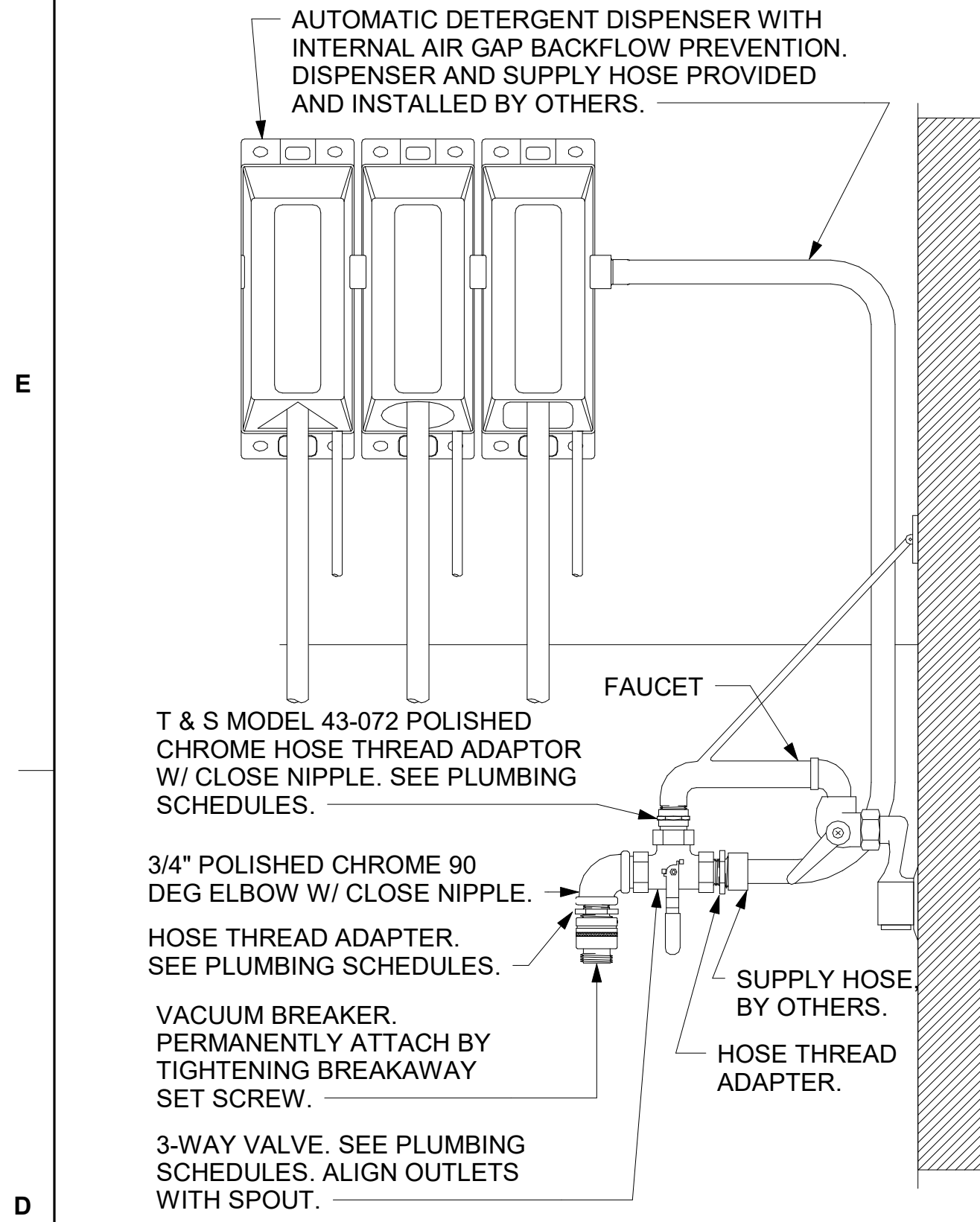
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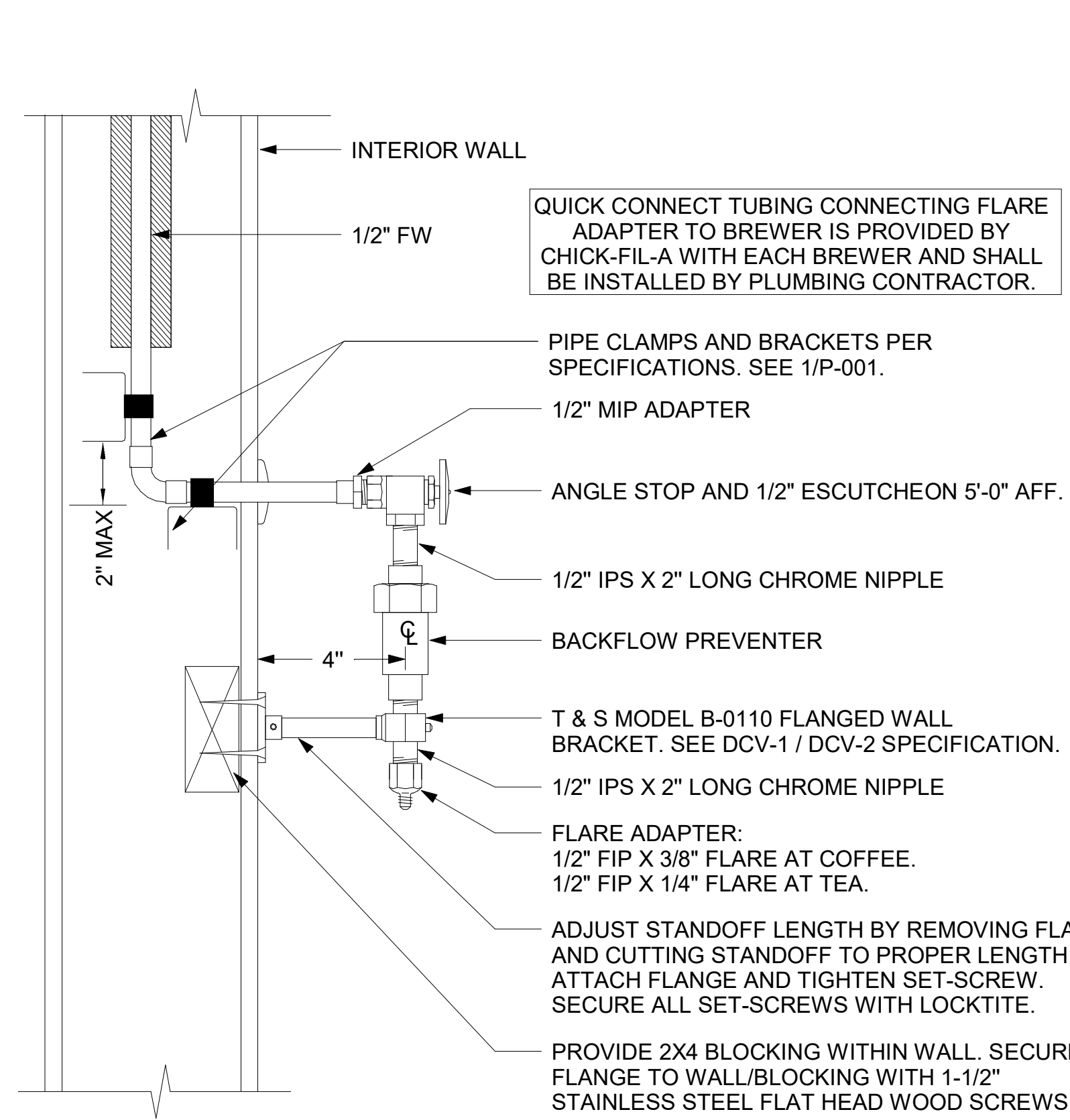
2 REFUSE PAD PLUMBING PLAN
 1/4" = 1'-0"



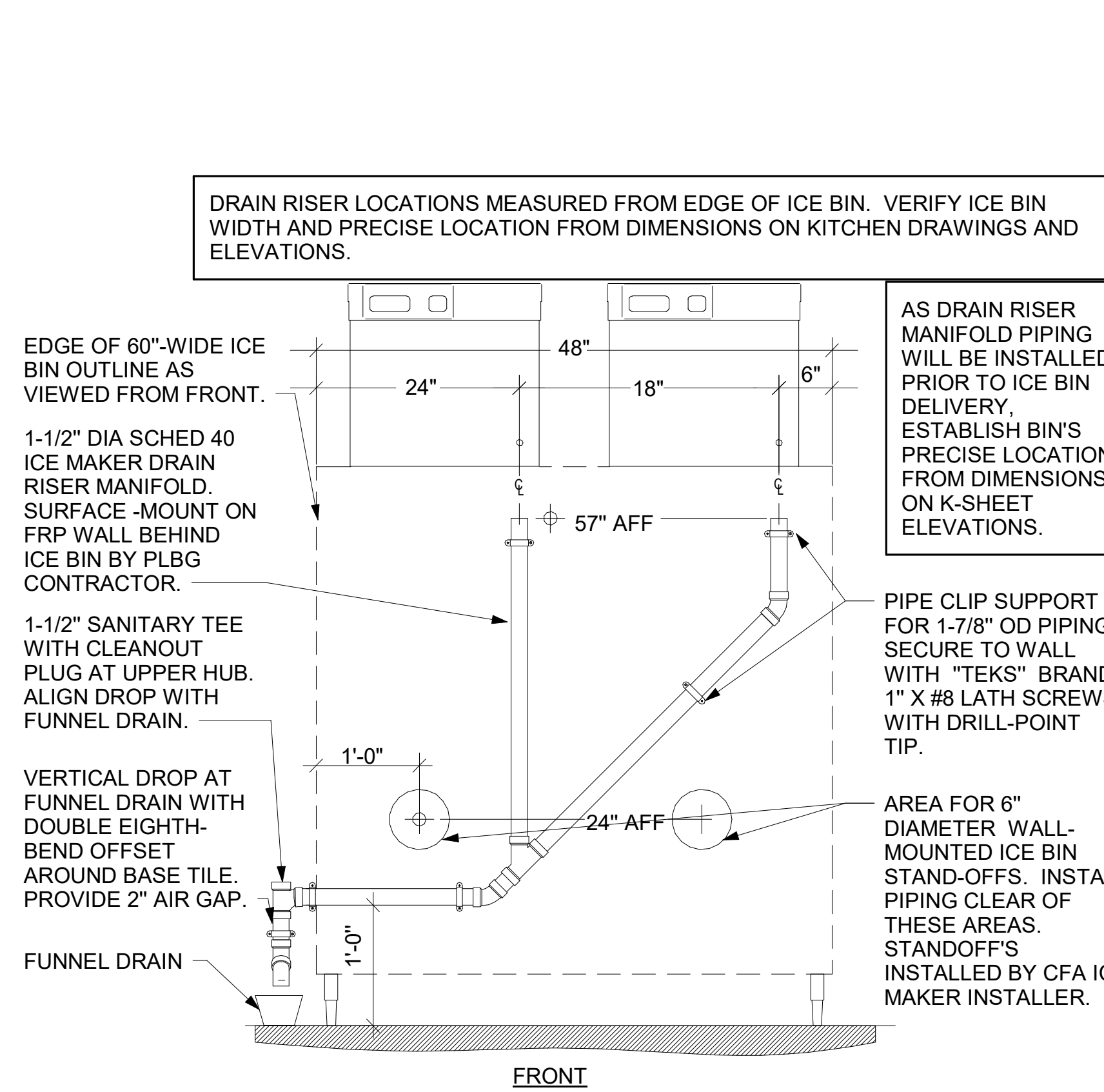
1 WATER DISTRIBUTION PLAN
 1/4" = 1'-0"



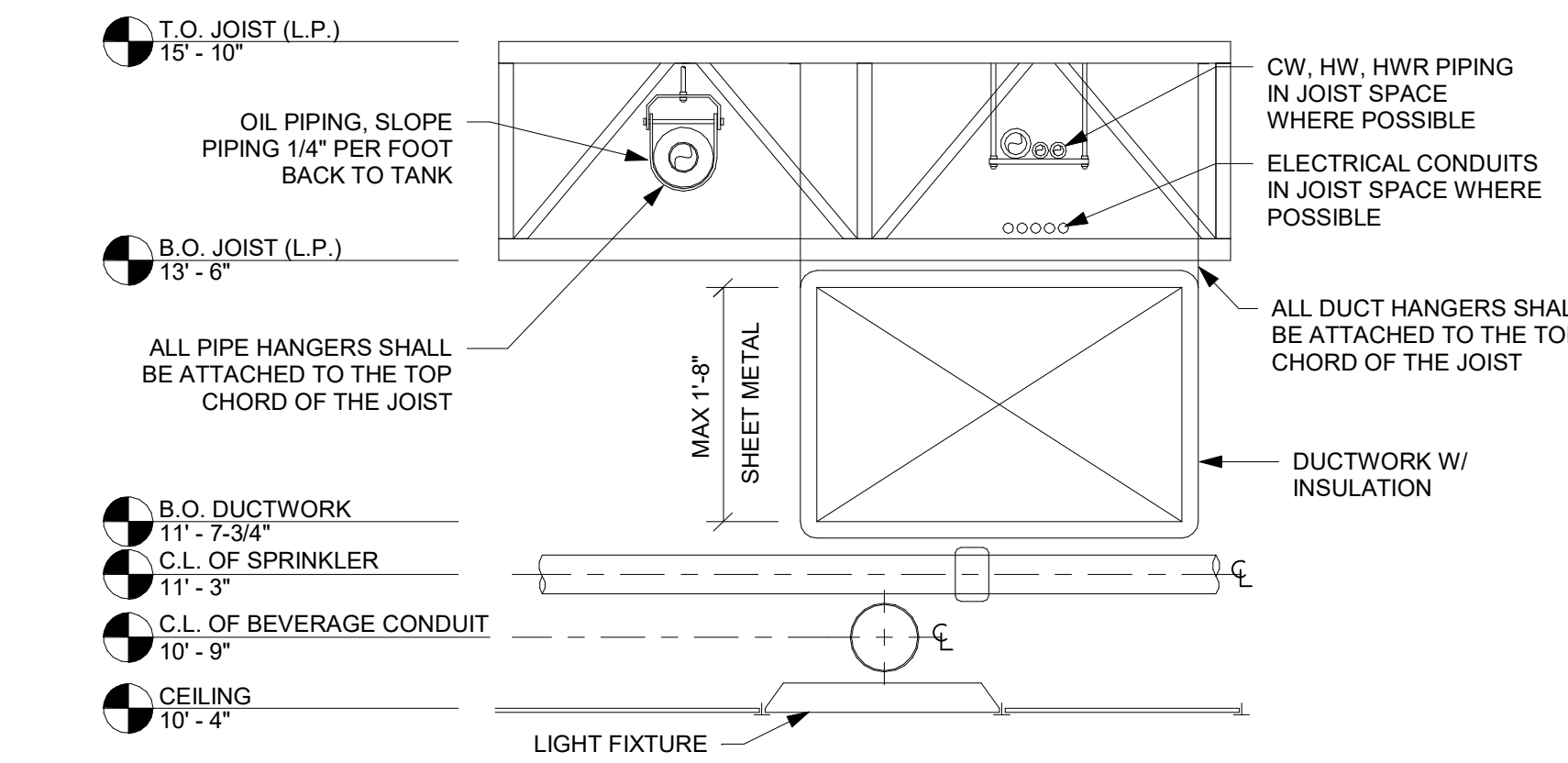
1 3-WAY VALVE AT MOP SINK NOT TO SCALE



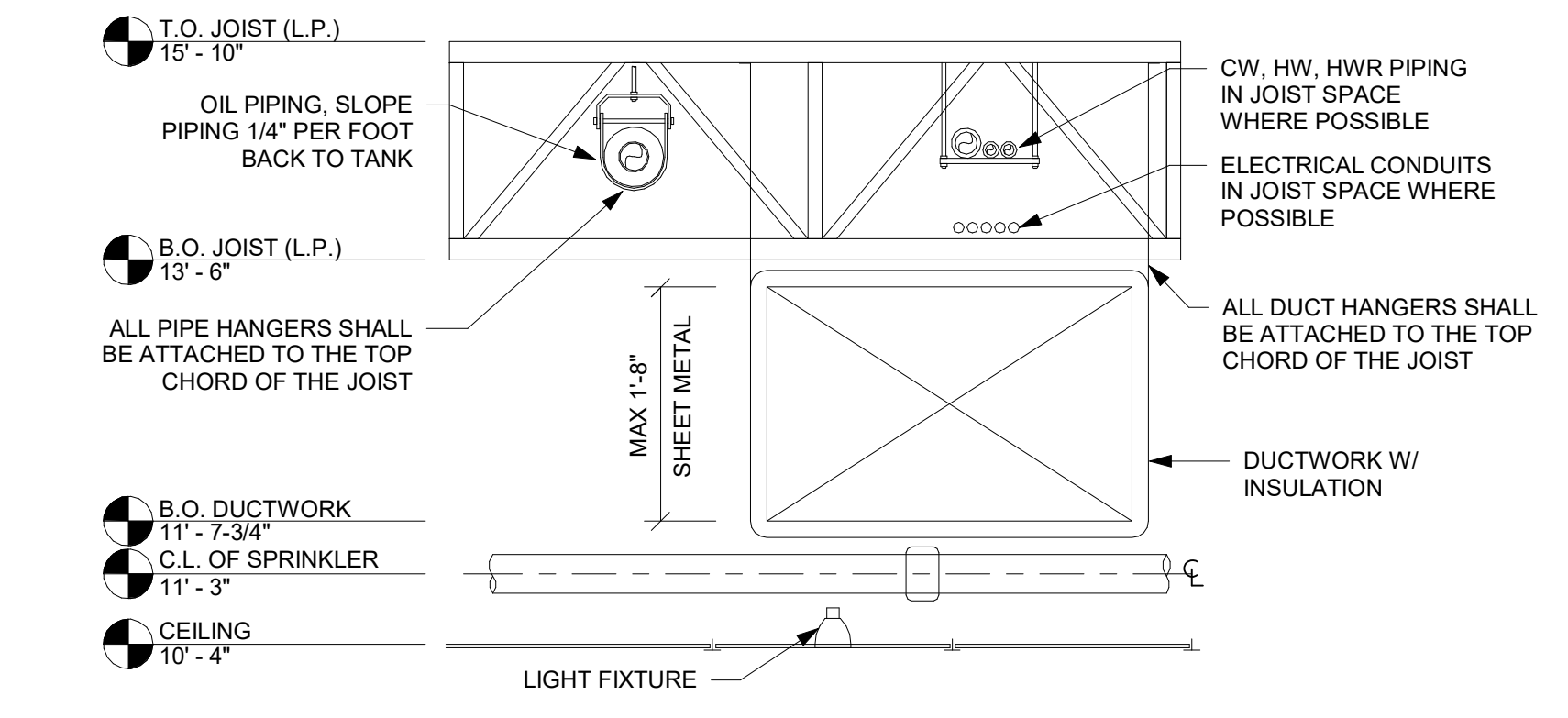
2 COFFEE & TEA BREWER STOP & BFP NOT TO SCALE



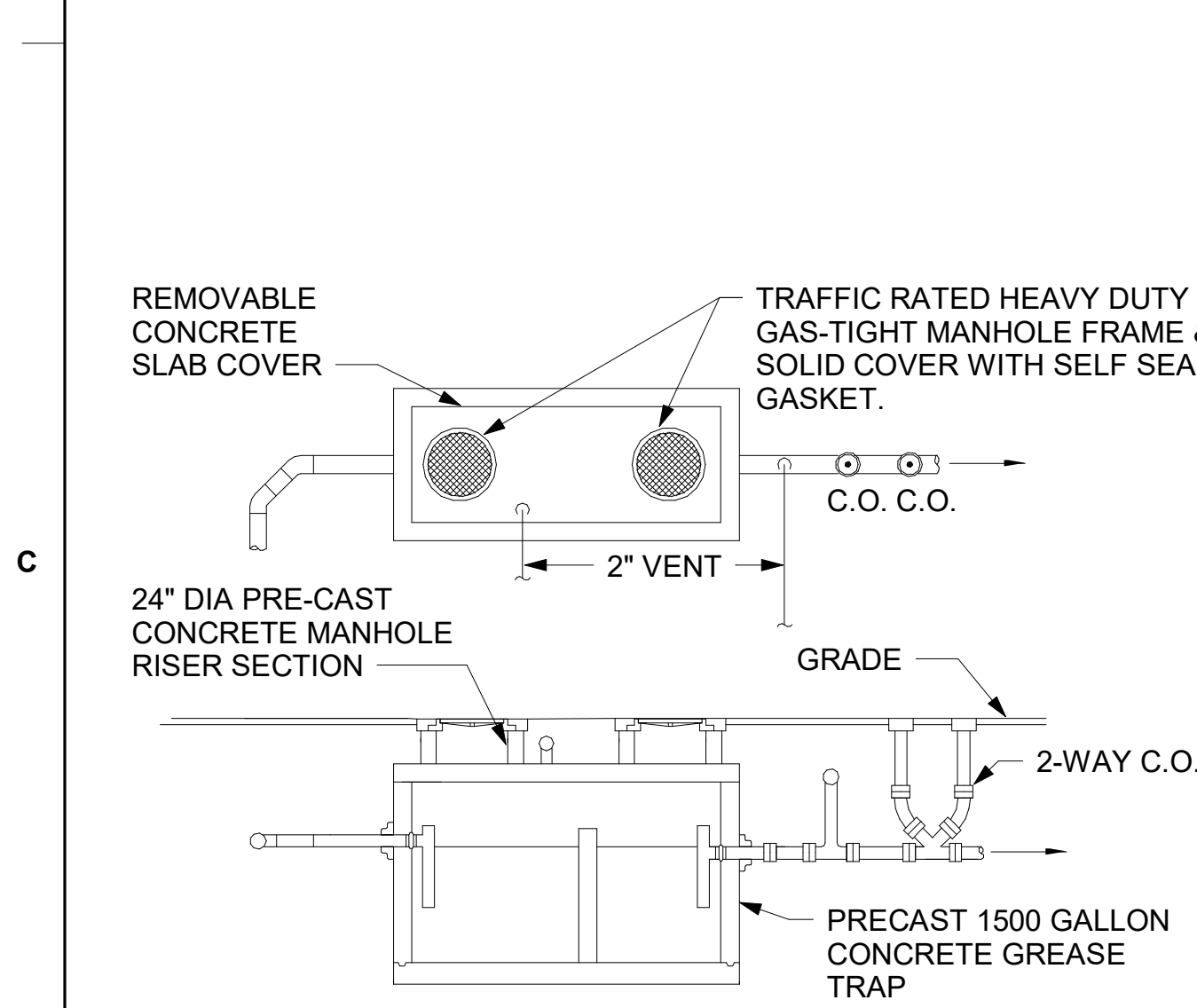
3 ICE MAKER DRAIN ON WALL NOT TO SCALE



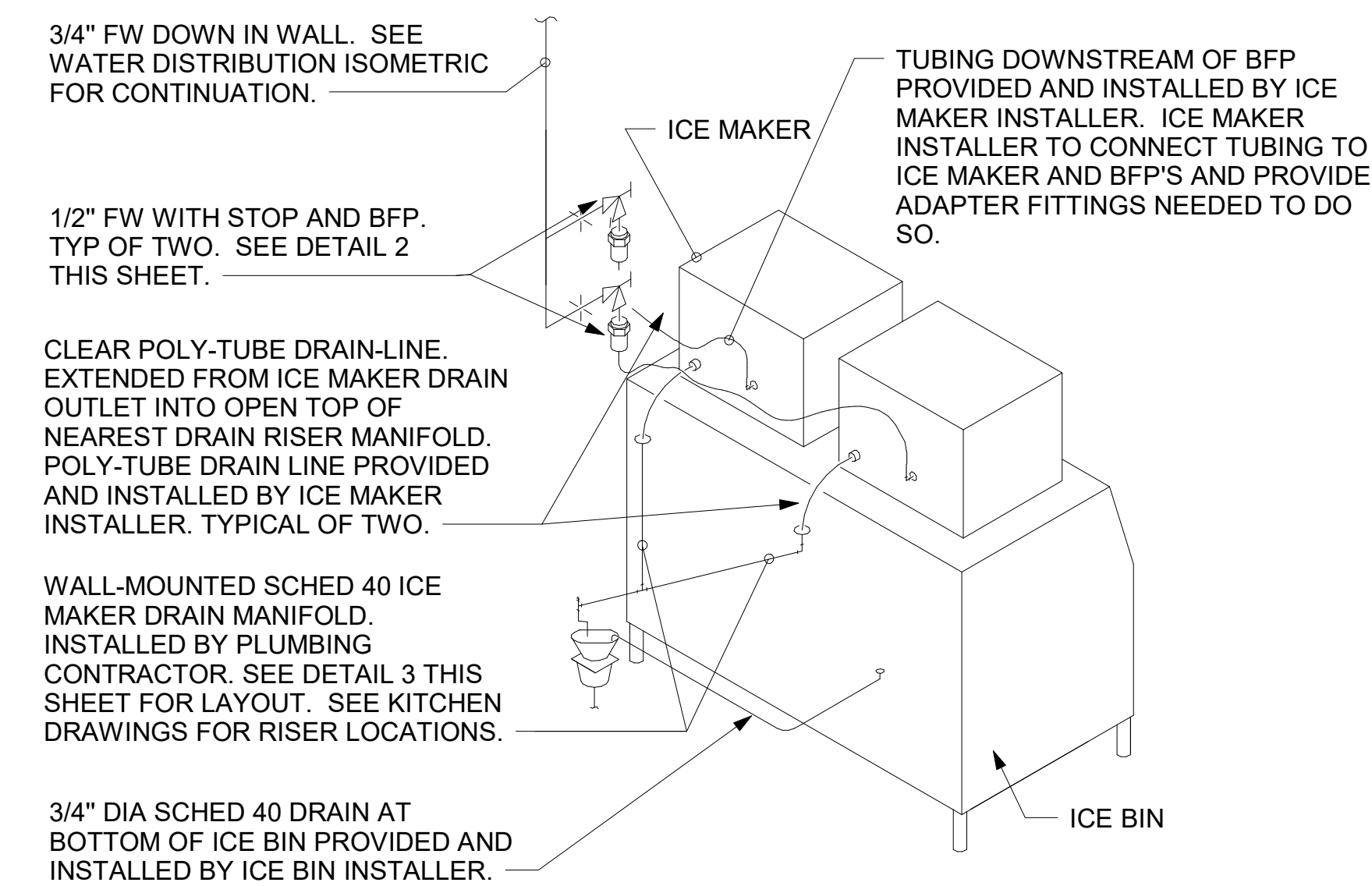
4 PIPING ELEVATION DETAIL - BOH NOT TO SCALE



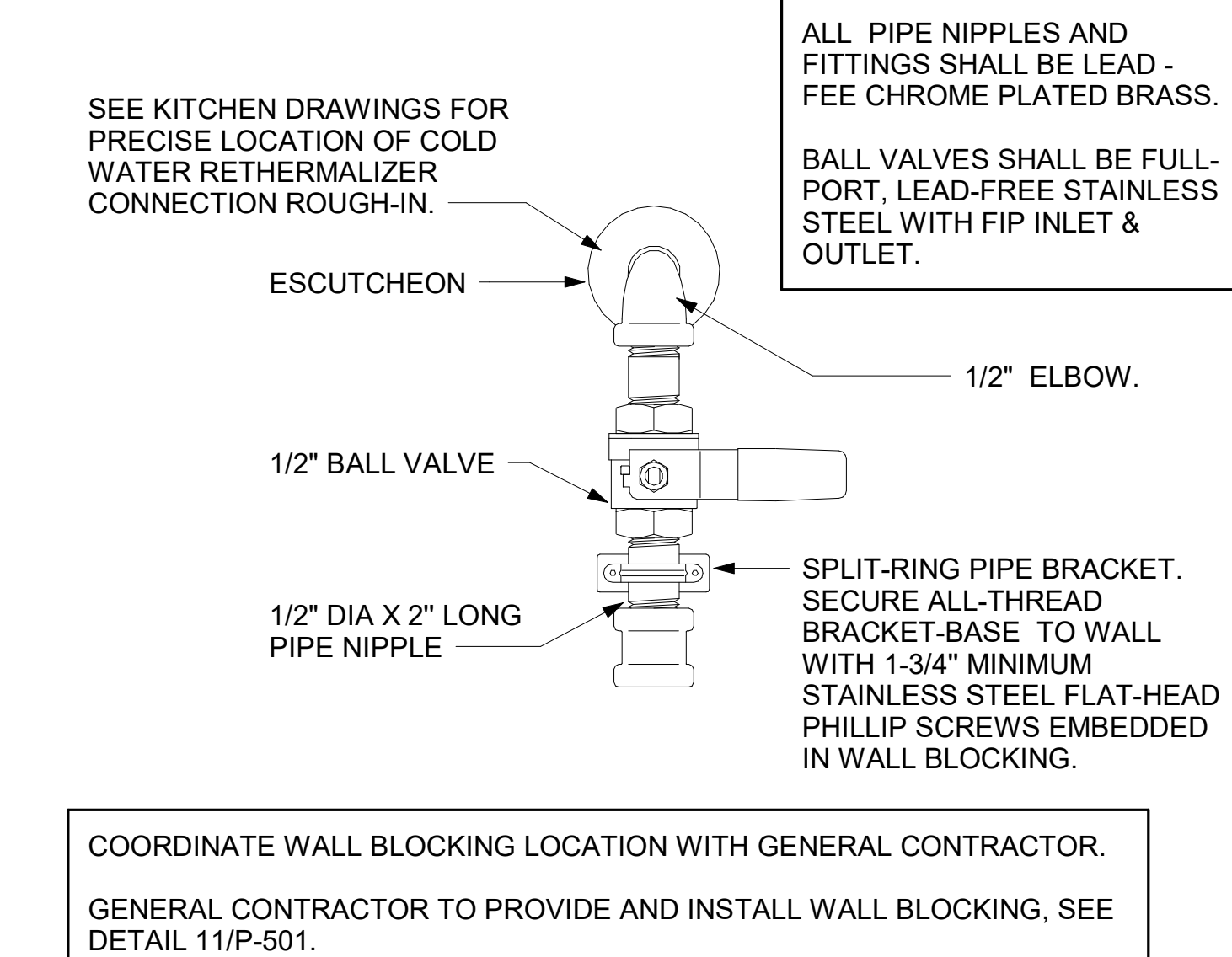
5 PIPING ELEVATION DETAIL - FOH NOT TO SCALE



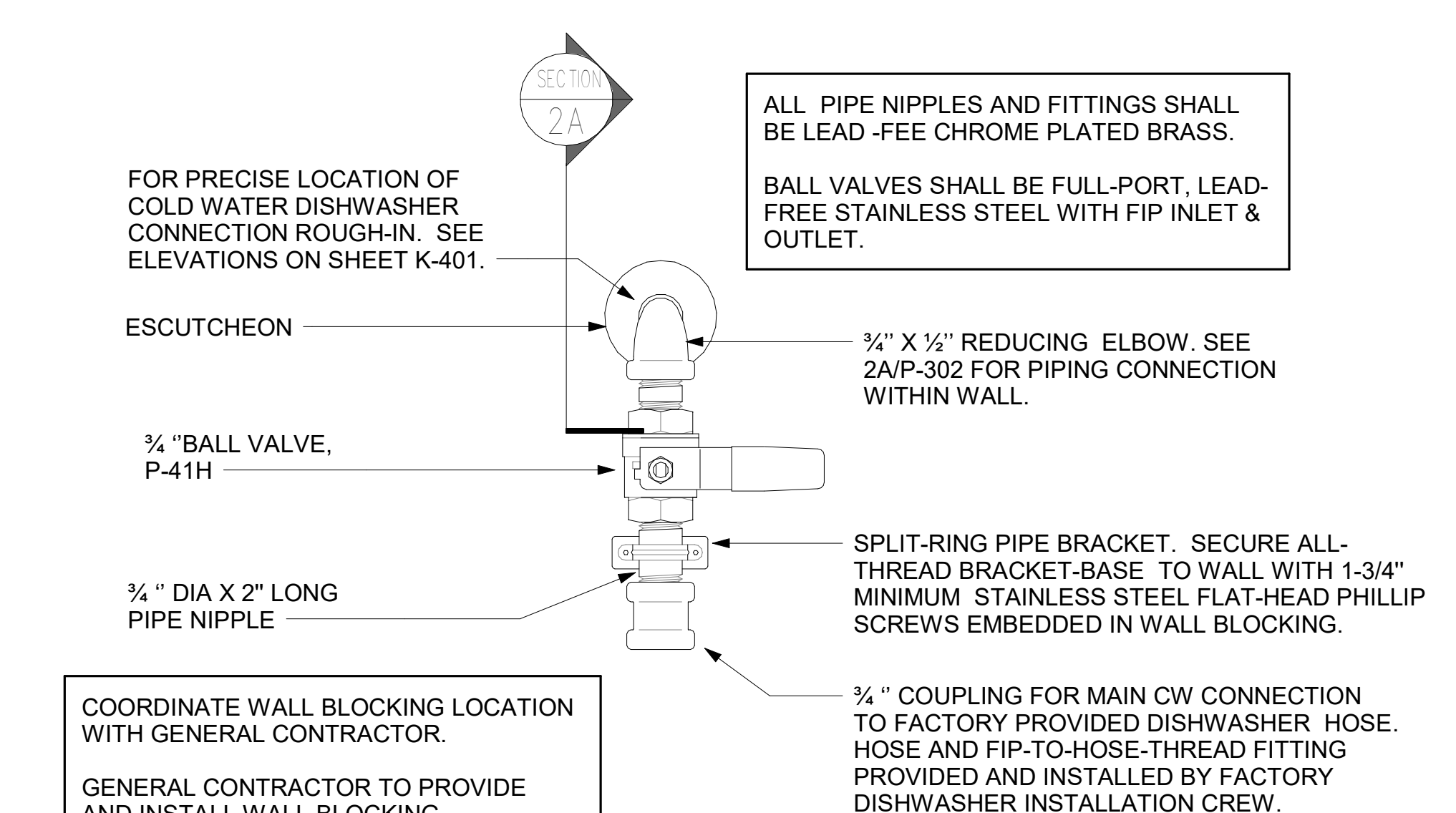
6 GREASE INTERCEPTOR NOT TO SCALE



7 ICE MACHINE PIPING NOT TO SCALE

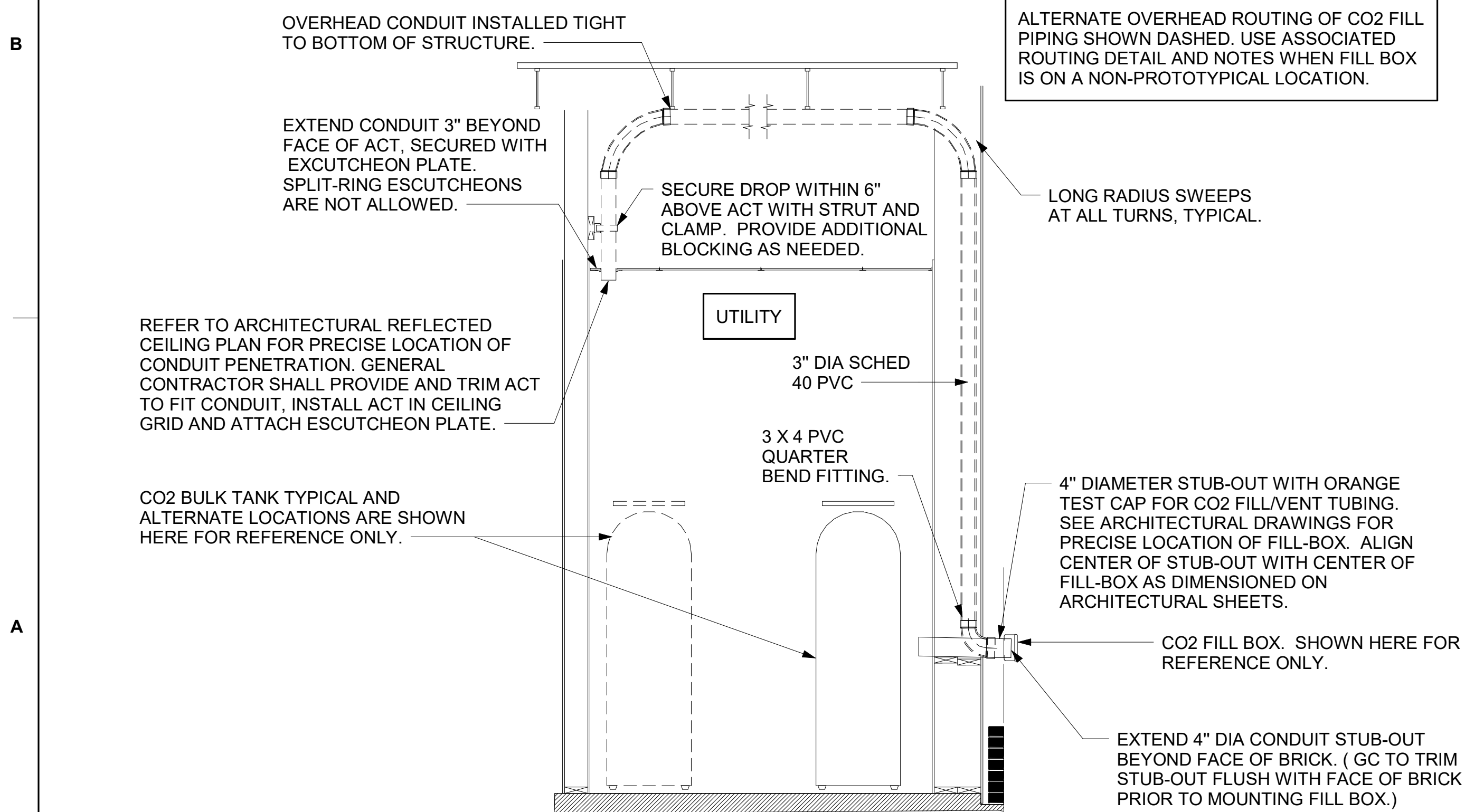


8 RETHERMALIZER SUPPLY VALVE NOT TO SCALE

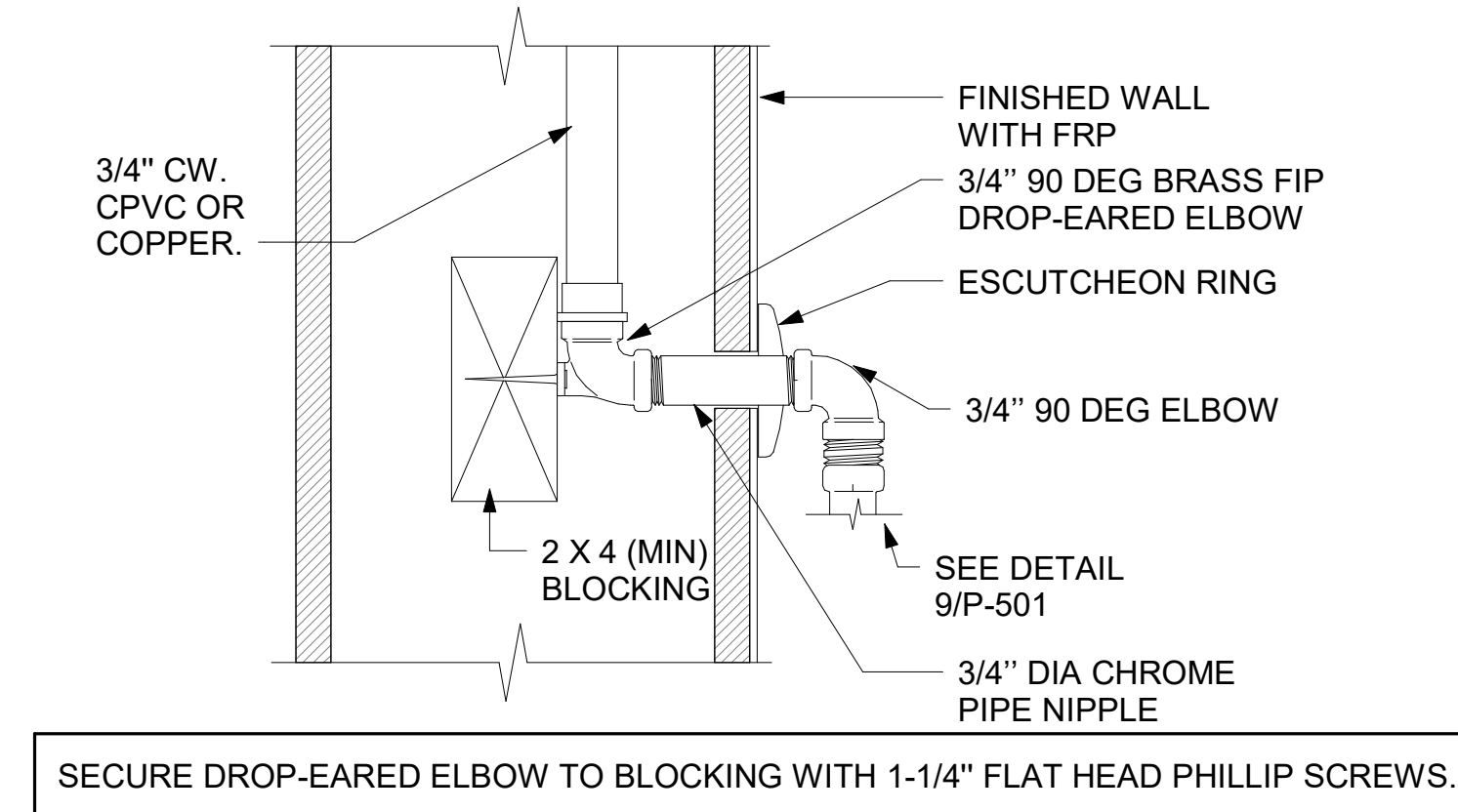


9 DISHWASHER SUPPLY VALVE ASSEMBLY-HOBART NOT TO SCALE

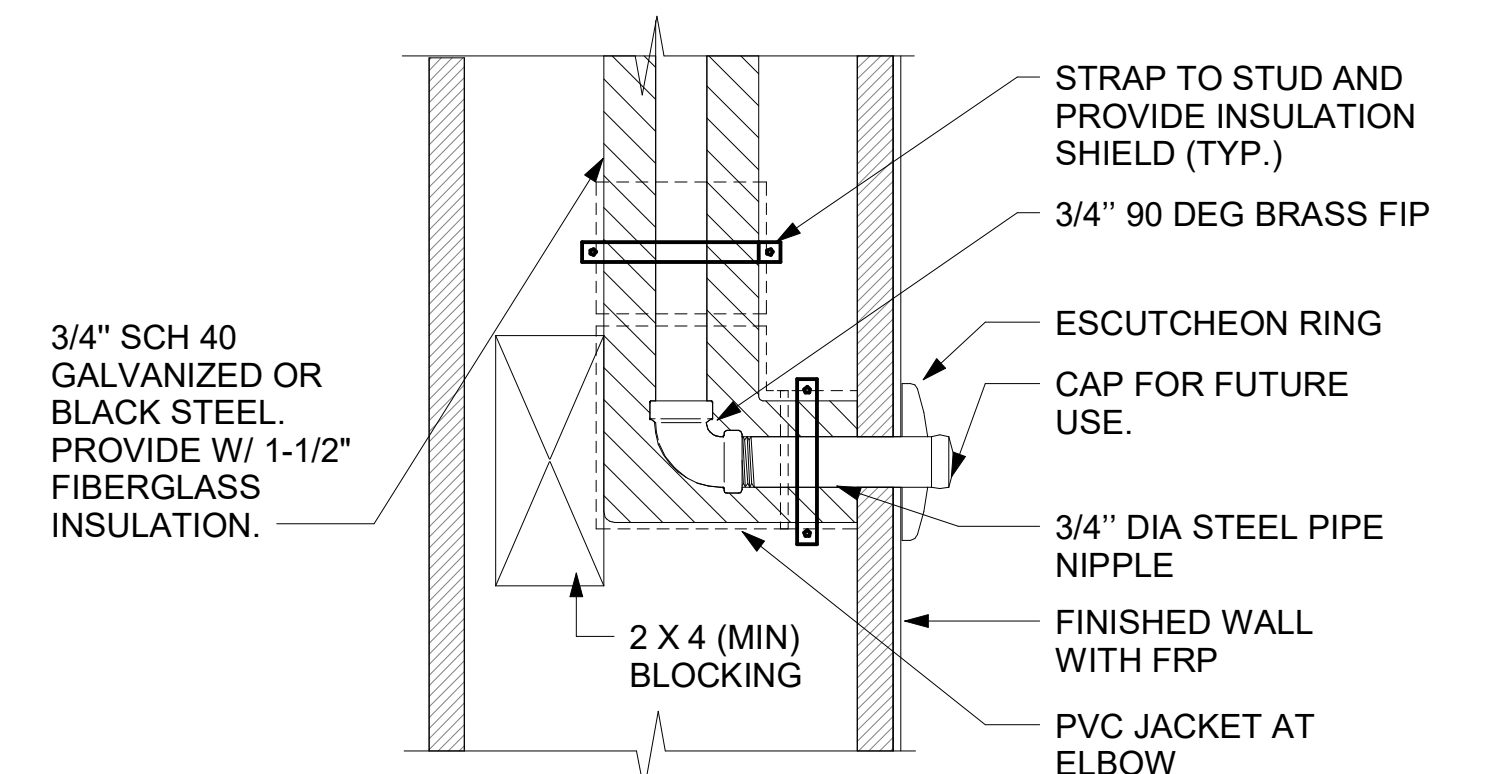
CO2 FILL BOX, FILL TUBING, AND VENT LINE SET FURNISHED BY CHICK-FIL-A AND FURNISHED BY GC. GC TO COORDINATE REQUIRED LENGTH OF TUBING AND LINE SET FROM FILL BOX TO TANK LOCATION WITH TMS; LENGTH NOT TO EXCEED 100 FT. FINAL CONNECTION BY CO2 VENDOR.



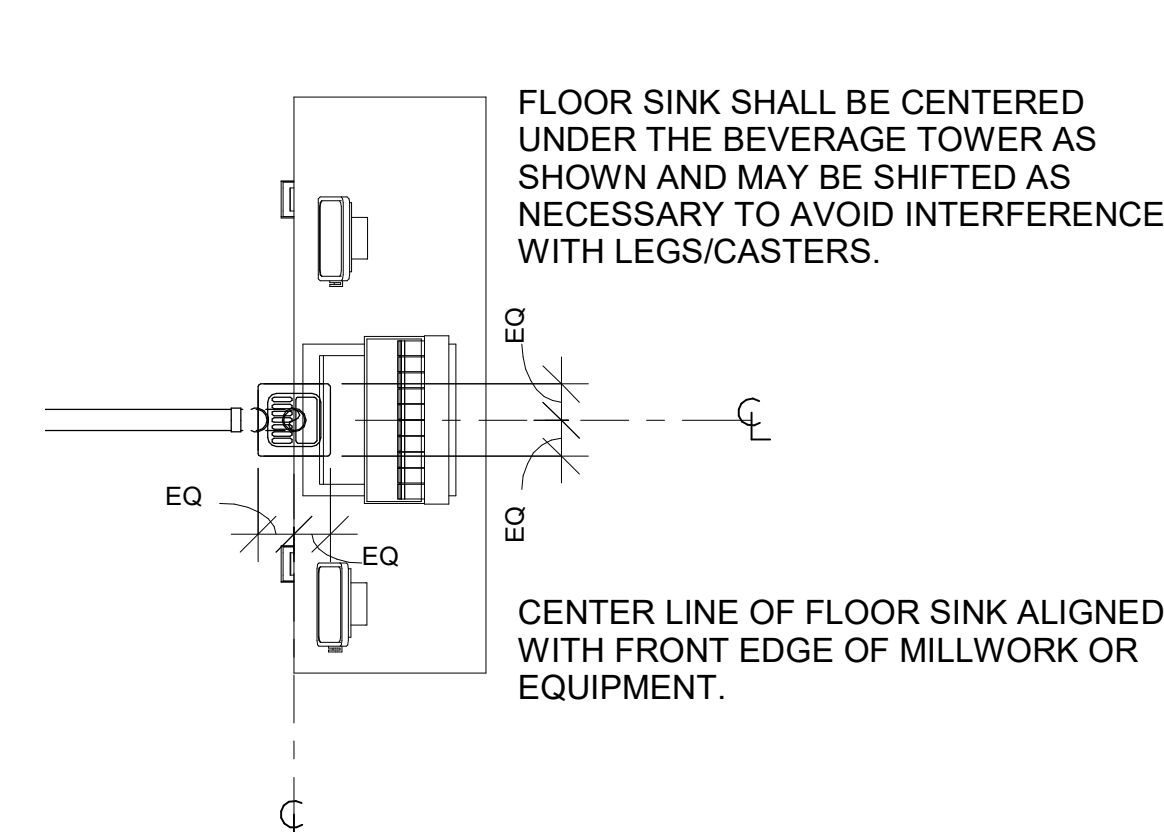
10 CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION NOT TO SCALE



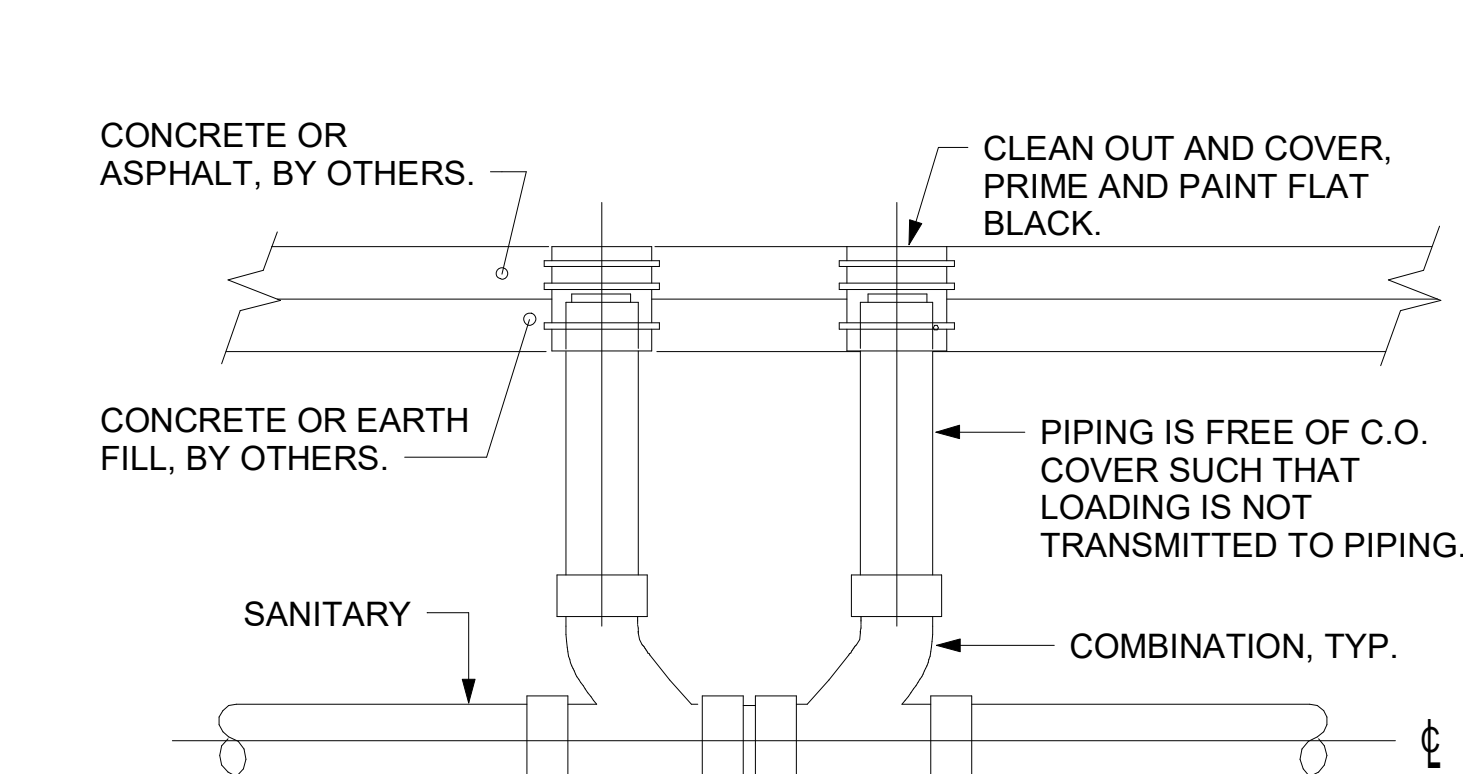
11 SECTION AT PIPNG WITHIN WALL NOT TO SCALE



12 DARPRO OIL PIPING SECTION WITHIN WALL NOT TO SCALE



13 BEVERAGE TOWER FLOOR SINK DETAIL NOT TO SCALE



14 SAN. C.O. OUTSIDE BUILDING NOT TO SCALE



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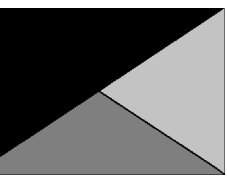
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SHEET PLUMBING DETAILS
P-501



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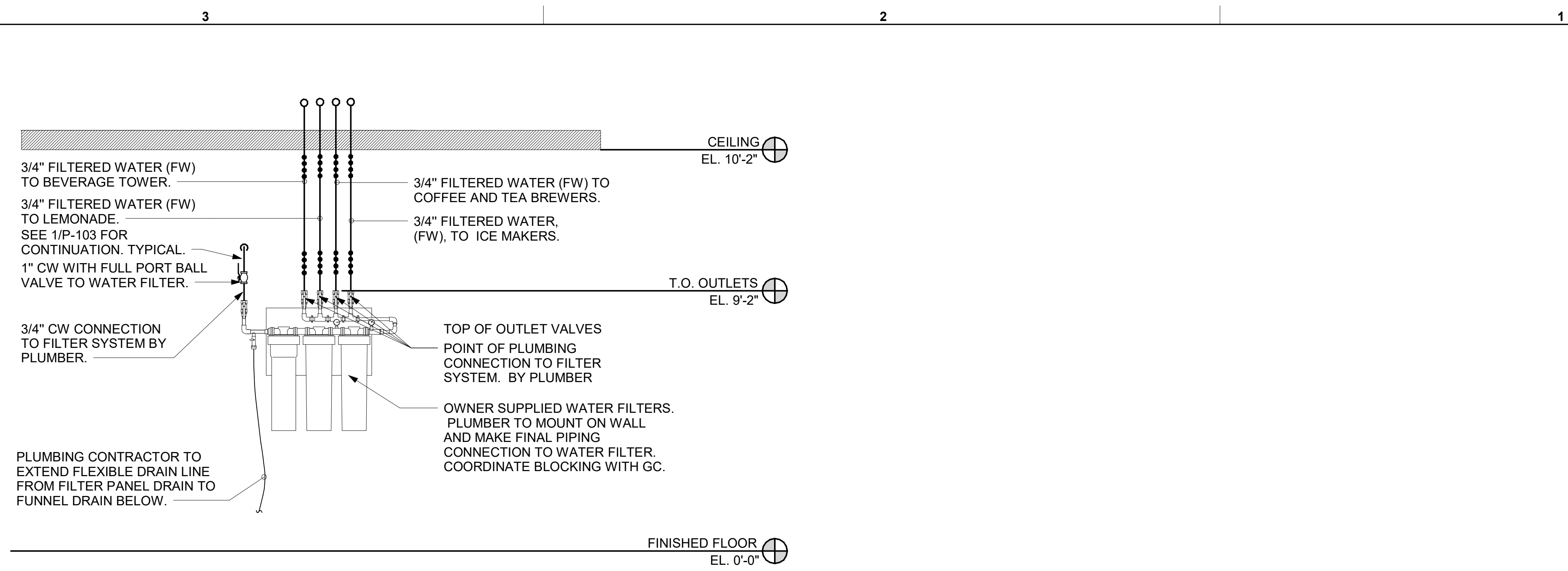
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CONSULTANT PROJECT # 24066.CD.S
DATE 05/15/2024

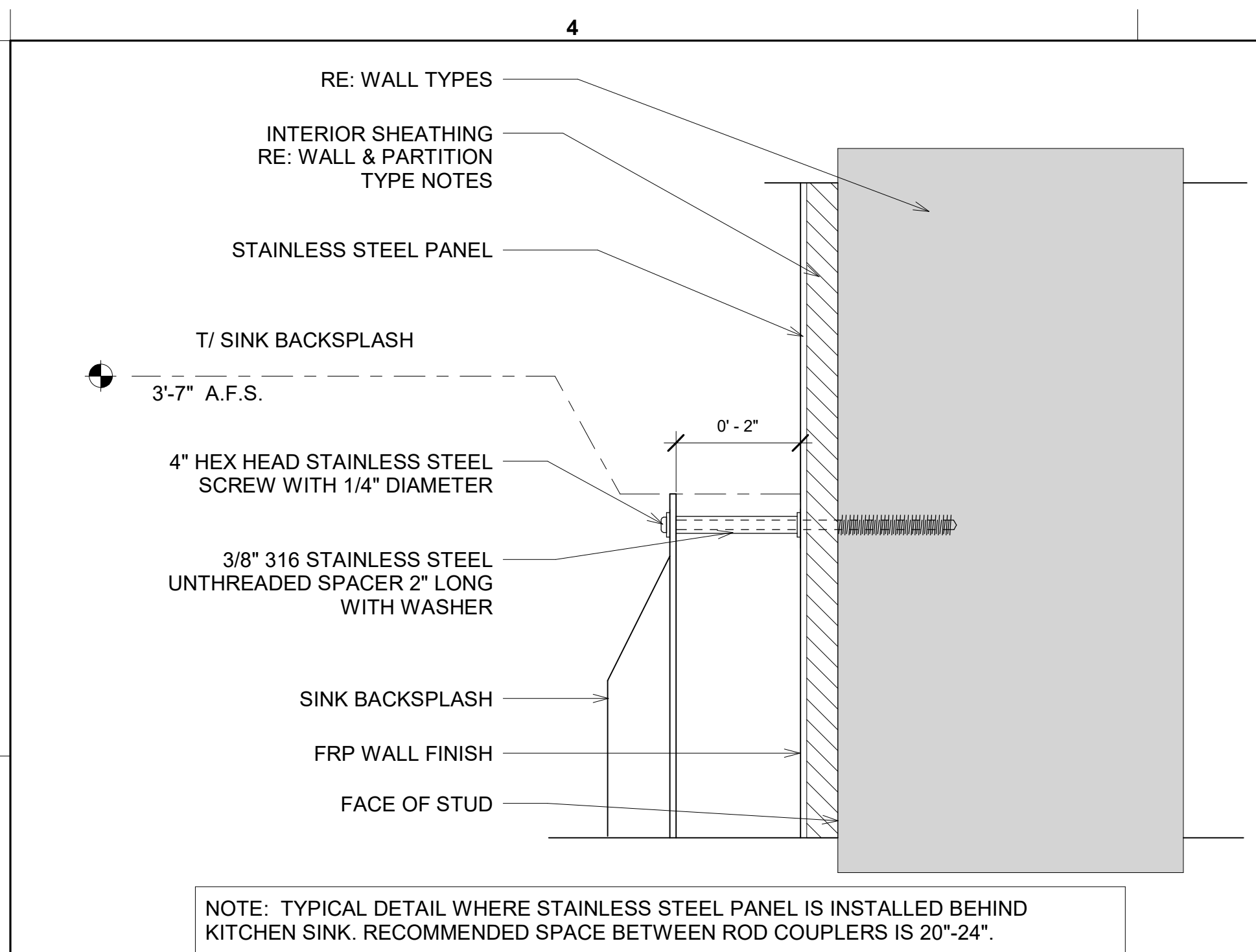
DRAWN BY CH
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SHEET PLUMBING DETAILS

SHEET NUMBER

P-502



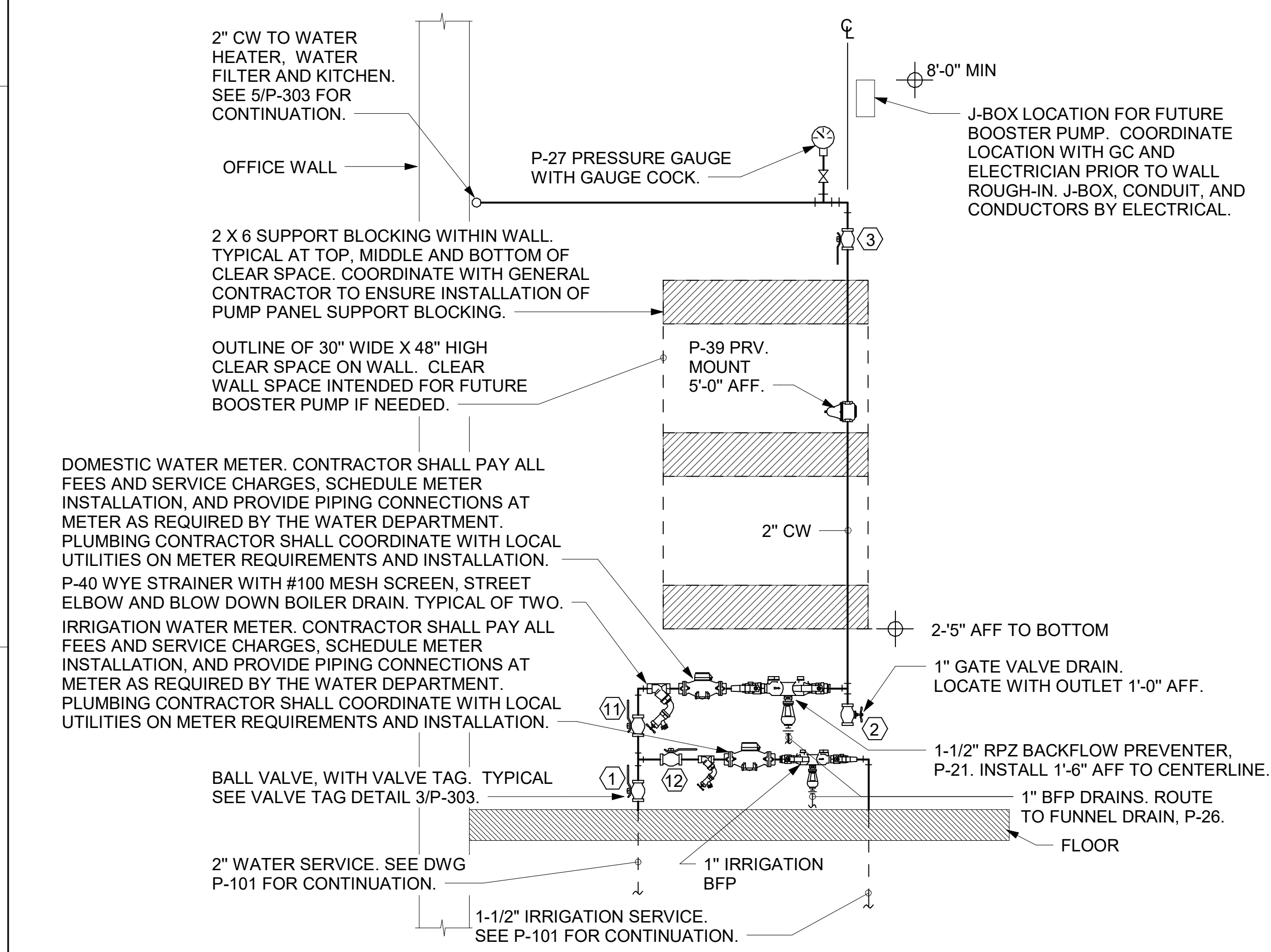
2 PIPING AT WATER FILTER
NOT TO SCALE



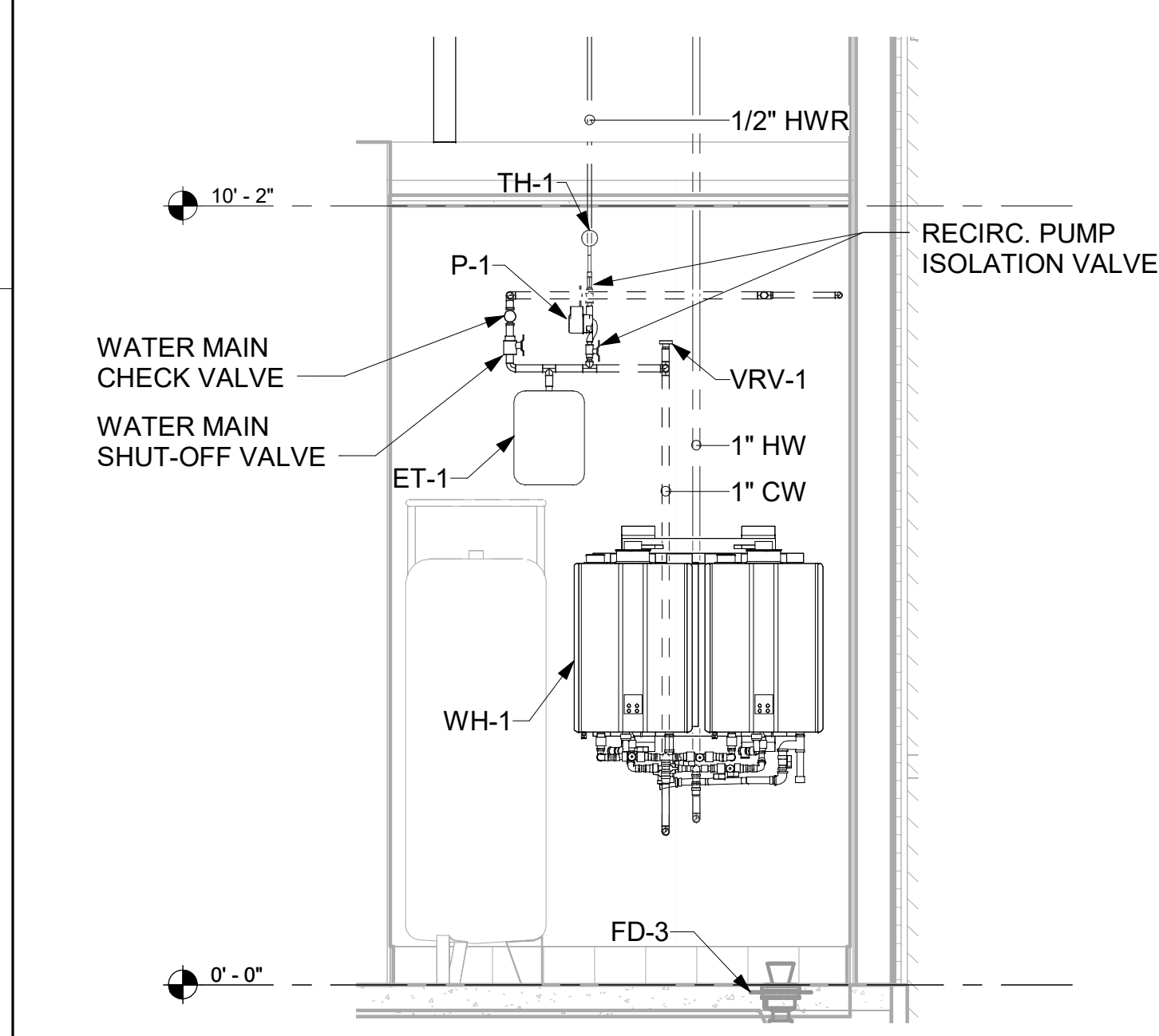
1 STANDOFF DETAIL
NOT TO SCALE

NOTE OF SPECIAL IMPORTANCE:

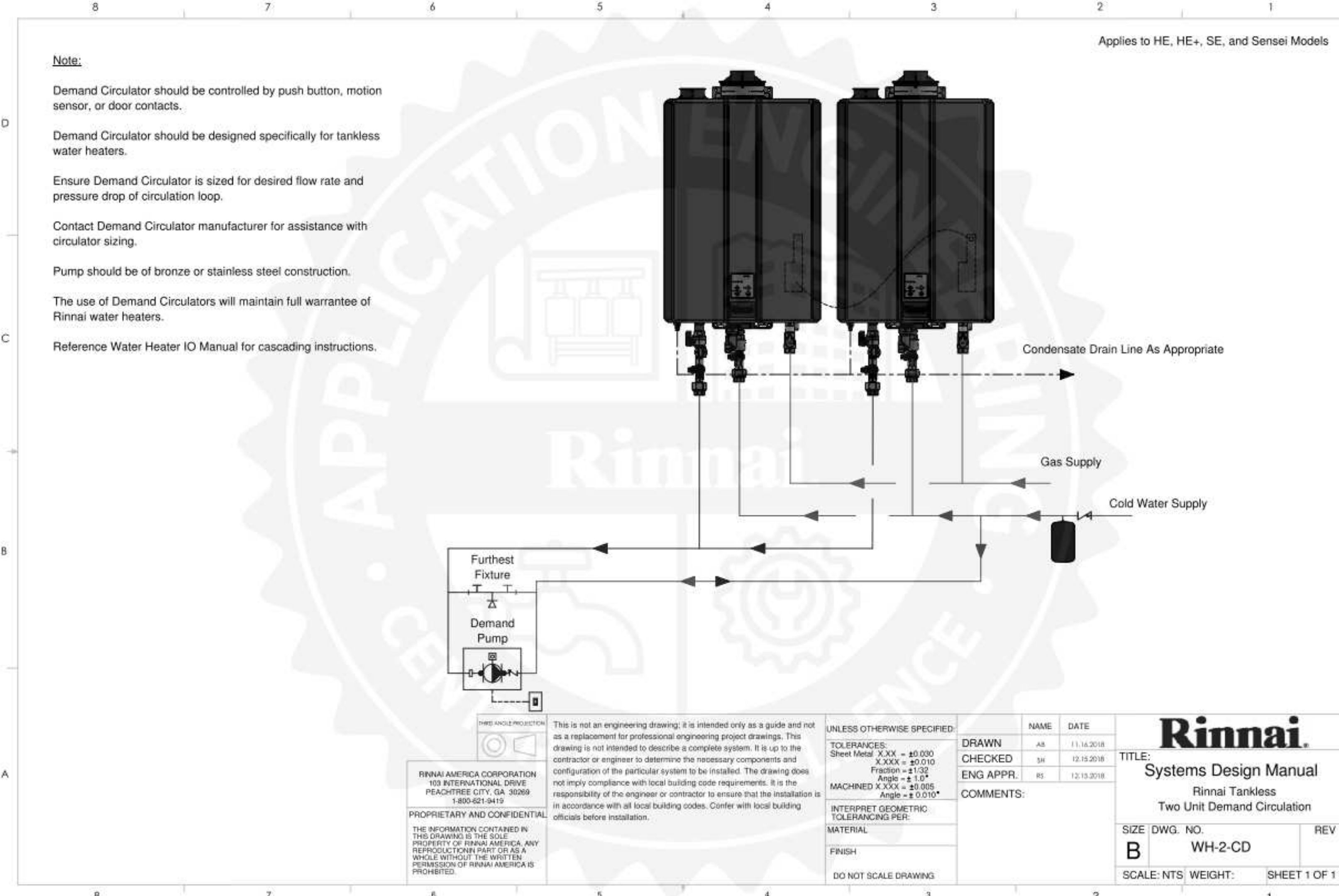
- LOCATIONS OF 2" CW RISER AND CLEAR SPACE ARE DIMENSIONED BECAUSE THEY ARE CRITICAL FOR THE FUTURE PUMP PANEL INSTALLATION.
- GENERAL CONTRACTOR SHALL ENSURE OTHER TRADES SHALL NOT INSTALL ANY OTHER BUILDING COMPONENT WITHIN CLEAR SPACE OR WITHIN 10" OF EDGES.



4 PIPING AT WATER SERVICE ENTRANCE IN MECHANICAL ROOM
NOT TO SCALE



3 TANKLESS WATER HEATER DETAIL
NOT TO SCALE



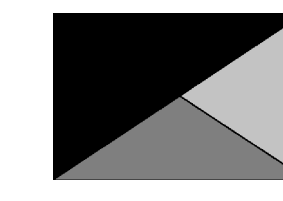
7/23/2024 1:29:53 PM Autodesk Docs://N_05893_Michigan City FSU_2024.3_FSR05893_Michigan City FSU_PLB.rvt 40-LS-05893-P-502-PLUMBING DETAILS

PLUMBING FIXTURE CONNECTION SCHEDULE

Table with columns: FIXTURE MARK, DESCRIPTION, MANUFACTURER, MODEL, FURNISHED BY, INSTALLED BY, CW, HW, FW, WASTE, VENT, ACCESSORIES & REMARKS. Contains detailed plumbing fixture specifications and notes.



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998



Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203



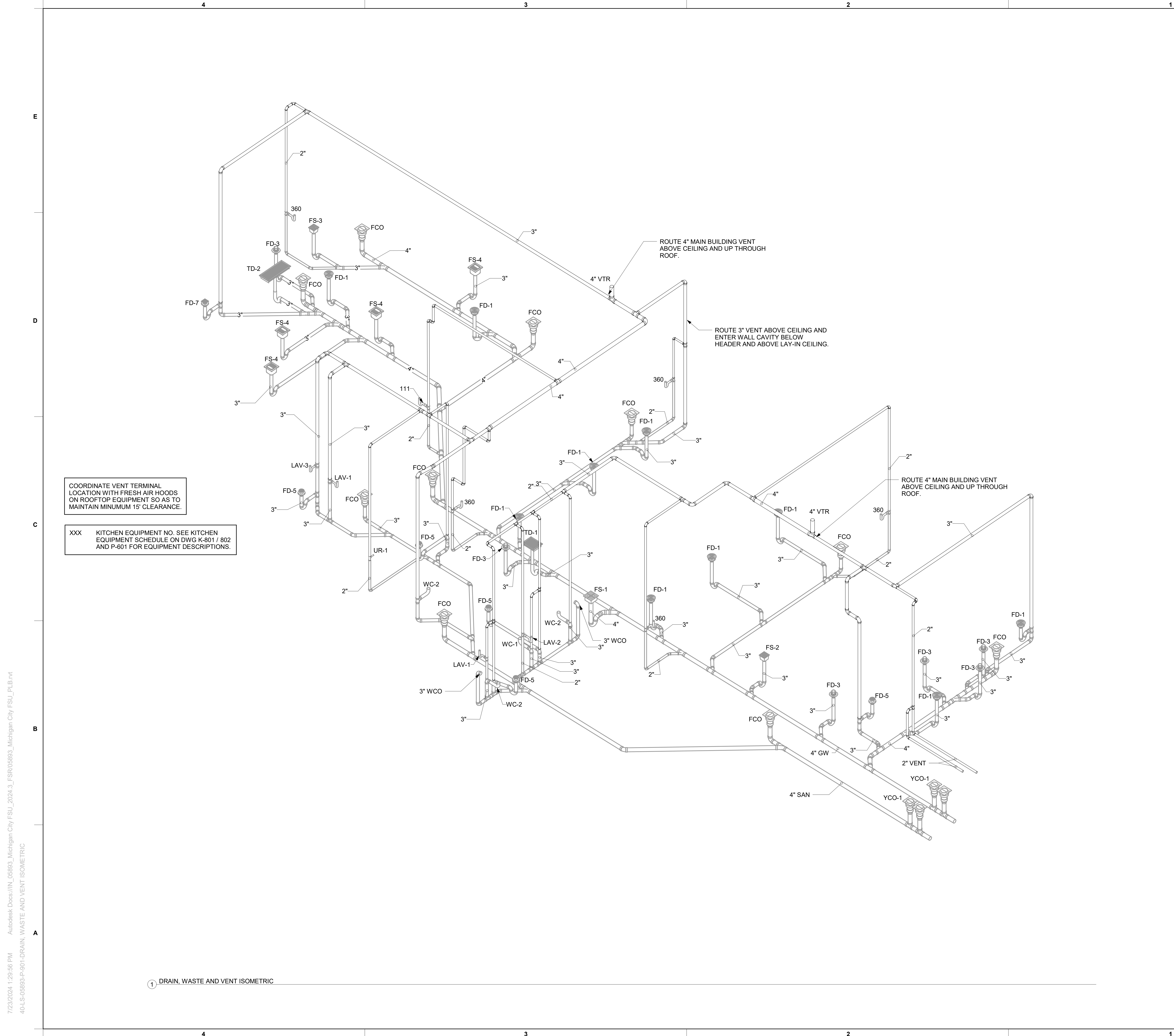
CHICK-FIL-A
Michigan City FSU
5809 Franklin St.
Michigan City, IN 46360

FSR#05893

BUILDING TYPE / SIZE: P14 LS BN
RELEASE: 23.11
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SHEET PLUMBING SCHEDULES
SHEET NUMBER
P-601

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40-LS-05893-P-601-PLUMBING SCHEDULES



COORDINATE VENT TERMINAL LOCATION WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15' CLEARANCE.

XXX KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE ON DWG K-801 / 802 AND P-601 FOR EQUIPMENT DESCRIPTIONS.

ROUTE 4\"/>

ROUTE 3\"/>

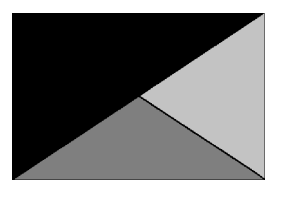
ROUTE 4\"/>

1 DRAIN, WASTE AND VENT ISOMETRIC



Chick-fil-A

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07/24/24

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5809 Franklin St.
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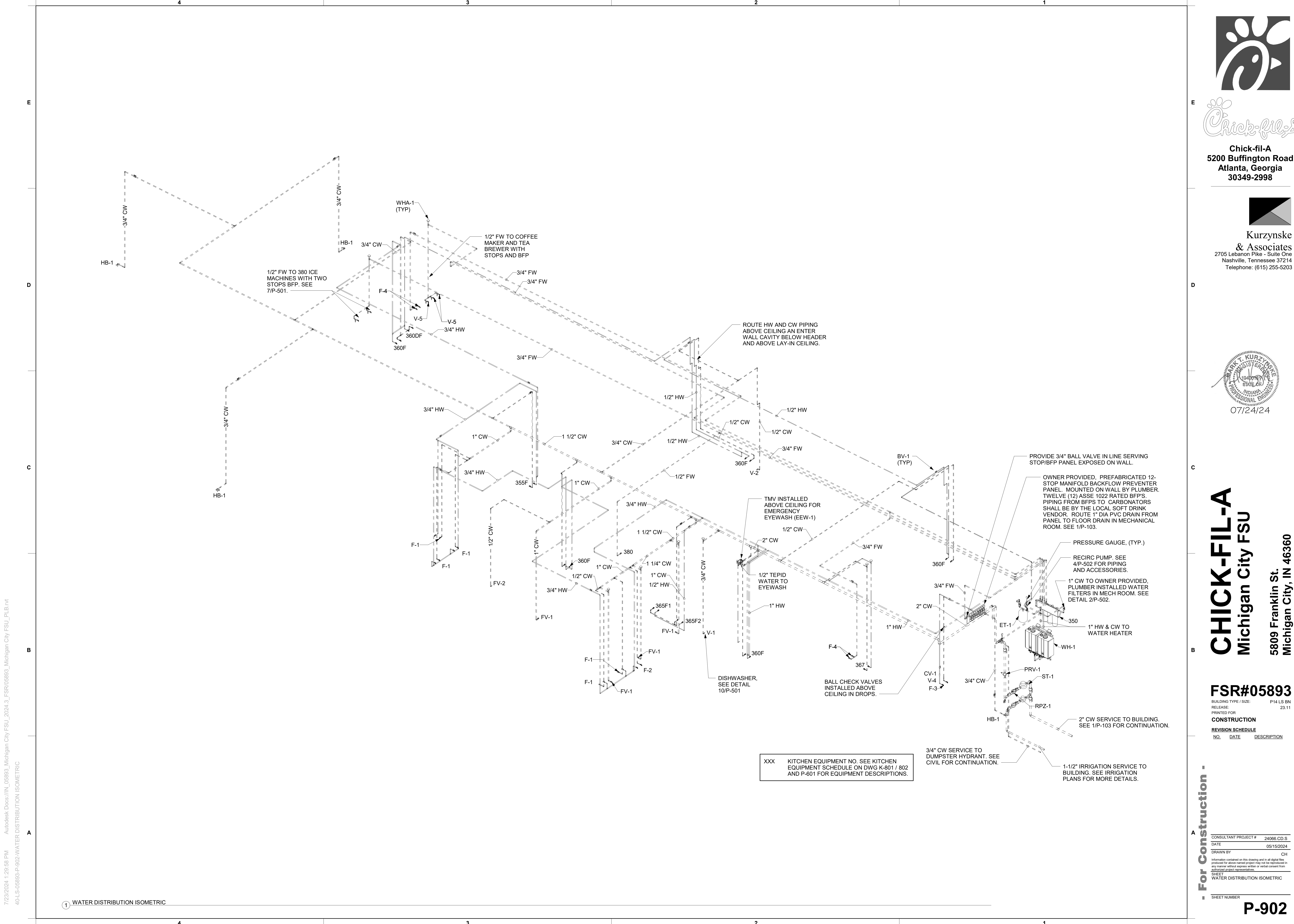
FSR#05893
BUILDING TYPE / SIZE: P14 LS BN
RELEASE: 23.11
PRINTED FOR
CONSTRUCTION
REVISION SCHEDULE
NO. DATE DESCRIPTION

For Construction -

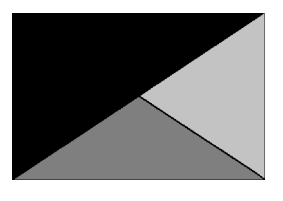
CONSULTANT PROJECT #	24066.CD.S
DATE	05/15/2024
DRAWN BY	CH
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SHEET	DRAIN, WASTE AND VENT ISOMETRIC
SHEET NUMBER	

P-901

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 Michigan City FSU
 5809 Franklin St.
 Michigan City, IN 46360

FSR#05893
 BUILDING TYPE / SIZE: P14 LS BN
 RELEASE: 23.11
 PRINTED FOR: CONSTRUCTION
 REVISION SCHEDULE

NO.	DATE	DESCRIPTION

For Construction

CONSULTANT PROJECT #	24066.CD.S
DATE	05/15/2024
DRAWN BY	CH

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SHEET WATER DISTRIBUTION ISOMETRIC

SHEET NUMBER **P-902**

7/23/2024 1:29:58 PM Autodesk Docs://N_05893 Michigan City FSU_2024.3_FSR05893_Michigan City FSU_PLB.rvt
 40-LS-05893-P-902-WATER DISTRIBUTION ISOMETRIC

XXX KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE ON DWG K-801 / 802 AND P-601 FOR EQUIPMENT DESCRIPTIONS.

1 WATER DISTRIBUTION ISOMETRIC