

1. ALL DRAWINGS AND NOTES MUST BE READ, REVIEWED & UNDERSTOOD BY THE CONTRACTOR PRIOR TO ORDERING AND/OR INSTALLATION OF ANY AND ALL PLUMBING SYSTEMS.

2. THE PLUMBING SYSTEM WITH FIXTURES, WATER HEATER, DRAINS, VENTS, WATER PIPING, INSULATION, GAS PIPING, ETC., SHALL BE BY THE PLUMBING CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. THIS SET OF PLUMBING DRAWINGS HAS BEEN DESIGNED UNDER THE LOCAL ADAPTED PLUMBING CODE, ENERGY CONSERVATION CODE, AND ADOPTED 1997 IAPMO.

4. ALL PLUMBING LINES, PLUMBING PENETRATIONS, PLUMBING EQUIPMENT, ETC., ARE APPROXIMATE LOCATIONS. PIPING IS SPACED AND SHOWN A CERTAIN DISTANCE FROM WALLS, EQUIPMENT, ETC., FOR CLARITY AND COORDINATION. FIELD VERIFY ALL PLUMBING LINE ROUTING, PLUMBING PENETRATION LOCATIONS, PLUMBING EQUIPMENT, ETC., WITH ALL OTHER TRADES, AS WELL AS THE OWNER/ARCHITECT, PRIOR TO INSTALLATION AS DESIGN DRAWINGS MAY DIFFER FROM ACTUAL INSTALLATION CONDITIONS. VERIFY ALL PLUMBING WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL, INTERIOR DESIGNER CONTRACTORS, LANDSCAPE ARCHITECT CONTRACTORS, KITCHEN EQUIPMENT CONTRACTORS, ETC., PRIOR TO INSTALLATION OF ANY AND ALL PLUMBING SYSTEMS.

5. ALL SANITARY WASTE VENTS, TO BE A MINIMUM OF 10'-0" FROM ANY AND ALL OPERABLE WINDOWS AND AIR INTAKES INTO THE BUILDING AND TO MECHANICAL EQUIPMENT OR HAVE THE TERMINATION LOCATION A MINIMUM OF 3'-0" ABOVE THE HIGHEST POINT OF THE WINDOW OR AIR INTAKE INTO THE BUILDING OR MECHANICAL EQUIPMENT.

6. PLUMBING CONTRACTOR TO FIELD VERIFY ALL NEW & EXISTING PLUMBING CONDITIONS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, LOCATIONS, PIPING, SIZING, FLOW OF DIRECTION, INVERT ELEVATIONS, UTILITIES, VENTS THRU ROOF, ETC. BEFORE ORDERING, INSTALLATION AND ANY WORK BEING DONE. NOTIFY ENGINEER IN WRITING FOR ANY DESIGN/DRIVING DISCREPANCIES.

7. USE ONLY BALL VALVES. NO GATE VALVES ALLOWED ON PROJECT.

8. HOT WATER MAIN LINES TO GO DOWN IN WALL TO WITHIN 2" FEET MAXIMUM OF THE HOT WATER SUPPLY TO ALL PUBLIC LAVATORIES AND THEN BACK UP IN WALL TO ABOVE THE CEILING AND THEN ROUTED TOWARDS THE REMAINING HOT WATER PLUMBING FIXTURES WITH A HOT WATER RECIRCULATION LINE FROM THE FURTHEST HOT WATER PLUMBING FIXTURE BACK TO DCP & A HOT WATER HEATER. INSTALL PER 2025 CEC WATER HEATING REQUIREMENTS AND 2022 NYS RESIDENTIAL AND MULTIFAMILY COMPLIANCE MANUAL.

9. ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODES AND/OR ORDINANCES, INCLUDING BUT NOT LIMITED TO PIPE SIZES.

10. ALL ACCESS PANELS TO BE LOCATED EITHER IN THE CEILING OR CONCEALED WITHIN A CABINET. NO ACCESS PANELS TO BE LOCATED ON WALLS WHERE IT CONFLICTS WITH THE AESTHETIC OF THE ROOM/WALLS. ALL ACCESS PANEL LOCATIONS TO BE VERIFIED WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.

11. PROVIDE 1/2" TURN SHUTOFFS AT ALL PLUMBING FIXTURES. PROVIDE ISOLATION VALVES AT RISERS, BRANCHES AND EQUIPMENT.

12. DOMESTIC WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER SWEAT FITTINGS. USE ONLY CANFIELD 100% WATER SAFE SOLDER (95% TIN, 4% COPPER, 1% SILVER) OR APPROVED ALLOY. DO NOT USE LEAD OR ANTIMONY SOLDER. JAT CONTRACTORS OPTION DOMESTIC WATER PIPE 2" AND BELOW AFTER WATER ENTRY ASSEMBLY MAY BE CPVC PIPE IF APPROVED BY THE LOCAL A.H. OWNER AND CODE. NOTIFY ENGINEER IN WRITING IF ANY MATERIAL OTHER THAN COPPER IS GOING TO BE USED FOR POSSIBLE RESIDUE OF WATER LINES, PUMP HEAD, ETC. ALLOWED JOINTS, INSULATION. USE ONLY FLOWGRAD GOLD PIPE WITH FLOWGRAD GOLD ONE STEP CEMENT ON PIPES 1/2" THROUGH 2". NO CPVC SUBSTITUTIONS ARE ALLOWED. PROVIDE CSA APPROVED HARDENED STURKE PLATES LISTED FOR CSST AND CPVC SYSTEMS AT ALL LOCATIONS WHERE TUBING IS CONCEALED AND PUNCTURE FROM NAILS OR SCREWS IS A POSSIBLE THREAT. SUPPORT ALL PIPE PER DETAILS, BUILDING CODE, AND MANUFACTURER REQUIREMENTS.

13. COPPER TUBING INSTALLED WITHIN A BUILDING AND IN OR UNDER A CONCRETE FLOOR SHALL BE TYPE "K" COPPER AND INSTALLED WITHOUT JOINTS. WHERE JOINTS ARE PERMITTED, THEY SHALL BE BRAZED AND FITTINGS SHALL BE WROUGHT COPPER.

14. INTERIOR SOIL AND WATER PIPING ABOVE GRADE SHALL BE SERVICE WEIGHT IRON SOIL PIPE AND NO-HUB FITTINGS. APPROVED PIPE MANUFACTURERS AB&I FOUNDRY, CHARLOTTE PIPE, AND TYLER PIPE BEARING THE TRADEMARK OF CISPI. NO HUB COUPLINGS SHALL BE NSF CERTIFIED, MEET CISPI 310 STANDARD MANUFACTURED BY TYLER, ANACO, DEAN, OR INSTEAD. INSTALL PER THE CISPI 301 STANDARD LATEST VERSION. NO ABS PIPE OR PVC FOAMCORE PIPE ALLOWED ON THE PROJECT. [PVC SCHEDULE 40 SOLID CORE PLASTIC PIPE AND FITTINGS MAY BE USED WHERE APPROVED BY OWNER AND ALLOWED BY THE BUILDING DEPARTMENT. INSTALL ALL PVC PIPE PER ASTM D2321 REQUIREMENTS AND RECOMMENDATIONS. NO FOAM CORE ALLOWED. NO PVC PIPING LOCATED IN RETURN AIR DUCTS. COORDINATE ALL PIPING ROUTING AND MATERIAL WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION AND ORDERING]

15. EXTERIOR SOIL AND WATER PIPING BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON HUB AND SPIGOT SOIL PIPE AND FITTINGS WITH NEOPRENE GASKETS APPROVED MANUFACTURERS AB&I FOUNDRY, CHARLOTTE PIPE, AND TYLER PIPE BEARING THE TRADEMARK OF CISPI. INSTALL PER THE CISPI 301 STANDARD LATEST VERSION. NO ABS PIPE OR PVC FOAMCORE PIPE ALLOWED ON THE PROJECT. [PVC SCHEDULE 40 SOLID CORE PLASTIC PIPE AND FITTINGS MAY BE USED WHERE ALLOWED BY THE BUILDING DEPARTMENT. INSTALL ALL PVC PIPE PER ASTM D2321 REQUIREMENTS AND RECOMMENDATIONS. NO FOAM CORE ALLOWED. NO PVC PIPING LOCATED IN RETURN AIR PLenums. COORDINATE ALL PIPING ROUTING AND MATERIAL WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION AND ORDERING]

16. A SLOPE OF NOT LESS THAN 1/8 INCH PER FOOT OR 1 PERCENT IS PROVIDED FOR DRAINAGE PIPING 4 INCHES OR LARGER ONLY WHERE IT IS IMPRACTICAL DUE TO THE DEPTH OF THE STREET SEWER, TO THE STRUCTURAL FEATURES, OR TO THE ARRANGEMENT OF A BUILDING OR STRUCTURE TO OBTAIN A SLOPE OF 1/4 INCH PER FOOT OR 2 PERCENT AND THAT IS SUBJECT TO THE CITY OF SAN DIEGO PLUMBING-FLUE INSPECTORS APPROVAL.

17. WATER-HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NON-CIRCULATED SYSTEMS SHALL BE INSTALLED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT.

18. PROVIDE A VACUUM BREAKER AT THE TOP OF THE COLD WATER SUPPLY LINE TO THE HOT WATER HEATER, FOR ALL BOTTOM-FEED COLD WATER SUPPLY HOT WATER HEATERS. PROVIDE WATTS N360 (OR EQUAL) VACUUM BREAKER/RELIEF VALVE.

19. MOUNT LAUNDRY AT REQUIRED ELEVATION FOR HANDICAP USAGE WHERE REQUIRED. INSULATE ALL EXPOSED PIPING SUPPLIES AND DRAINS PER ADA REQUIREMENTS AND DRAWING SPECIFICATIONS.

20. WEATHERPROOF ALL PLUMBING ROOF PENETRATIONS PER CODES AND ROOFING MANUFACTURER RECOMMENDATIONS. LOCATE ALL PLUMBING VENTS THROUGH PITCHED ROOFS WITHIN 5' OF ROOF RIDGE. PLUMBING VENT PENETRATIONS SHALL BE CAST IRON AND ONE SIZE LARGER THAN REQUIRED VENT SIZE.

21. ALL SANITARY WASTE VENT RISERS TO BE LOCATED IN SAME WALL, AND NEXT TO, SANITARY WASTE RISERS, WHERE APPLICABLE AND POSSIBLE.

22. WATER HAMMER SHOCK-ARRESTER SHALL BE PROVIDED AND INSTALLED ON ALL QUICK CLOSING VALVES INCLUDING BALL VALVES, HANDED SHUT-OFF PIPING SHOCK OR HAMMER, SHOCK ARRESTER PER INDUSTRY STANDARDS, ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SHALL BE NEW AND IN CLEAN AND BRIGHT CONDITION. THE CONTRACTOR SHALL TAKE ANY MEASURE NECESSARY TO ENSURE AND MAINTAIN THE QUALITY OF THE INSTALLATION. ALL PIPING SHALL BE FLUSHED WITH CLEAN WATER TO BE PLACED INTO SERVICE TO ENSURE THAT ANY RESIDUAL CUTTING OIL, SLAG, THREAD TAP, FLUX OR DIRT HAS BEEN PURGED. IN ADDITION TO FLUSHING, THE DOMESTIC WATER PIPING SHALL BE TESTED TO ELIMINATE ANY CONTAMINATION IN ACCORDANCE WITH CURRENT PER CODE RECOMMENDATIONS.

23. ALL PIPING, EQUIPMENT, ETC. SHALL BE IDENTIFIED. ALL PIPING IS TO BE TESTED IN ACCORDANCE WITH ACCEPTED CODES AND STANDARD OF CARE PRACTICES.

24. ALL SAFETY RELIEF VALVES SHALL BE VENTED TO ATMOSPHERE OR PURED FULL SIZE TO NEAREST FLOOR DRAIN. BACKFLOW PREVENTERS OF APPROPRIATE TYPE SHALL BE INSTALLED WHERE REQUIRED BY CODE, PROVIDED WITH A CATCH PUNIP IN PIPED TO THE NEAREST FLOOR DRAIN OR SINK, AND LOCATED BETWEEN 18" AND 60" AFT WITH MINIMUM OF 30" CLEAR IN FRONT OF VALVE FOR SERVICING. PROVIDE BACKFLOW DEVICE TEST FOR FIRE SERVICE AND DOMESTIC SERVICE PRIOR TO FINAL BUILDING INSPECTION.

25. CLEANSOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES IN THE BUILDING SEWER, BUILDING DRAIN AND HORIZONTAL WASTE, SOIL, OR STORM LINES. WHERE MORE THAN ONE CHANGE OCCURS IN A RUN OF PIPING, AN ADDITIONAL CLEANSOUT SHALL BE REQUIRED FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135 DEGREES. (CIP 706-1 AND 707-1)

27. PROVIDE MIXING VALVE AT ALL HAND SINKS AND LAVS PER CODE AND AS SPECIFIED.

28. PROVIDE SURESLAB INLINE FLOOR DRAIN TRAP SEALER FOR ALL FLOOR DRAINS, TRENCH DRAINS AND FLOOR SINKS THAT ARE 4" PIPE SIZE AND SMALLER. SURESLAB PROVIDES A MAXIMUM OF 4" PIPE INLINE FLOOR DRAIN TRAP SEALER. PROVIDE TPI FOR LARGER THAN 4" DIAMETER DRAINS.

29. LABEL ALL PIPING IN ACCESSIBLE AREAS.

30. ALL PIPING TO BE HUNG ON ADJUSTABLE SPLIT RING HANGERS OR UNISTRUT SUPPORTS WITH CLAMPS OF SIMILAR MATERIAL AS THE PIPE UNLESS OTHERWISE NOTED. PIPE HANGER SPACING IN FEET TO BE AS FOLLOWS

31. ANY PLUMBING PIPING THRU A FIRE RATED FLOOR OR WALL PENETRATION TO BE ADDRESSED WITH FIRE CALKING. ALL FIRE RATINGS ARE TO BE MAINTAINED.

32. ALL VACUUM AND COMPRESSED AIR PIPING, SHALL BE INSTALLED PER NFPA 969. PIPING AND MATERIALS SHALL BE AS FOLLOWS.

FIXTURE CONNECTION SCHEDULE				
FIXTURE	HW	CW	WASTE	VENT
WATER CLOSET - FLUSH TANK	-	1/2"	4"	2"
LAVATORY	1/2"	1/2"	2"	2"
HAND SINK	1/2"	1/2"	2"	2"
KITCHEN SINK (WITH DISPOSER)	1/2"	1/2"	2"	2"
STERILE SINK	1/2"	1/2"	2"	2"

SIZES SHOWN ARE MINIMUM PIPE SIZES TO A SINGLE FIXTURE.

DESIGN CODES:

- 2021 INTERNATIONAL BUILDING CODE (IBC)
- 2014 ARKANSAS ENERGY CONSERVATION CODE (AEECC)
- (2009 IECC)
- 2018 ARKANSAS PLUMBING CODE (APC)
- 2021 ARKANSAS MECHANICAL CODE (AMC)
- 2021 ARKANSAS FIRE CODE (AFC)
- 2018 ARKANSAS FUEL & GAS CODE (AFGC)
- 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- 2020 NATIONAL ELECTRIC CODE (NEC)
- SECTION 517 - PATIENT CARE FACILITY

FIXTURE	QTY	WASTE	WASTE TOTAL	COLD WTR	HOT WTR	CW & HW TOTAL	CWT	HWT	WSFU TOTAL
2" FLOOR DRAIN / SINK	0	2	0	0.00	0.00	0.00			
3" FLOOR DRAIN / SINK	1	5	5	0.00	0.00	0.00			
EMERGENCY EYEWASH	1	0	0	0.00	0.00	0.00	0.00	0.00	0.00
ELECT WATER COOLER	1	1	1	0.50	-	0.50	0.50	0.50	0.50
ICEMAKER BOX	1	0	0	0.50	-	0.50	0.50	0.00	0.50
KITCHEN SINK (PUBLIC)	3	2	6	1.500	1.500	2.00	4.50	4.50	6.00
LAVATORY (PUBLIC)	9	1	9	1.50	1.50	2.00	13.50	13.50	16.00
VACUUM STANDPIPE	1	2	2	0.00	0.00	0.00	0.00	0.00	0.00
STERILIZER STANDPIPE	1	2	2	0.00	0.00	0.00	0.00	0.00	0.00
SERVICE SINK	1	2	2	2.25	2.25	3.00	2.25	2.25	3.00
WATER CLOSET - FT (P.A. PUBLIC)	4	4	16	2.00	-	2.00	8.00	0.00	8.00
FIXTURE UNIT TOTALS			43				31.25	20.25	34.00
FLOW RATE				0					25.00 GPM
		0							60 PSI
SANITARY SLOPE IN. PER LINEAR FOOT:		1/8"							150 FT
MINIMUM SANITARY SIZING:		4"							1-1/2"

Notes:

1. DCW METER SIZED @ 10 FEET/SECOND PER IPC. DCW DISTRIBUTION SIZED @ 8 FEET/SECOND PER IPC.
2. DHW DISTRIBUTION SIZED @ 5 FEET/SECOND PER IPC.

Plumbing Cover Sheet

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