

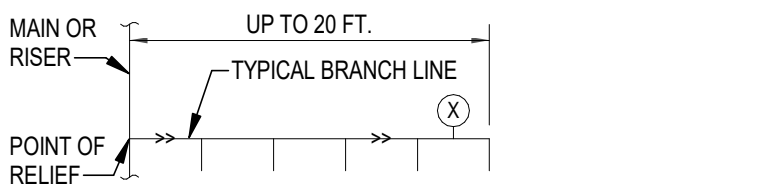
| FIRESTOP SCHEDULE OF THROUGH PENETRATION SYSTEMS. BASIS OF DESIGN: HILTI, INC. | | | | | | | |
|--|---------------|---|--|---|--|--|---|
| TYPE OF PENETRANT | F-RATING (HR) | CONCRETE FLOORS | | CONCRETE OR BLOCK WALLS | | GYPSUM WALLS | HILTI PRODUCTS |
| | | BASIS OF DESIGN UL SYSTEM | | | | | |
| CIRCULAR BLANK OPENINGS (0000-0999) | 1 | F-A-0006, C-AJ-0055, C-AJ-0090 | | C-AJ-0055, C-AJ-0090 | | -- | CP 680, CP 618, FS-ONE MAX, CFS- BL |
| | 2 | F-A-0006, C-AJ-0055, C-AJ-0090 | | C-AJ-0055, C-AJ-0090 | | -- | |
| METAL PIPES OR CONDUIT (1000-1999) | 1 | C-AJ-1226, F-A-1028, F-A-1017 | | C-AJ-1226, W-J-1067, W-J-1020 | | W-L-1054, W-L-1058, W-L-1164, W-L-1506 | CP 680, FS-ONE MAX, CP 606, CFS-S SIL GG, CFS-D, MINERAL WOOL |
| | 2 | C-AJ-1226, F-A-1028, F-A-1017 | | C-AJ-1226, W-J-1067, W-J-1020, W-J-1248 | | W-L-1054, W-L-1058, W-L-1164, W-L-1506 | |
| NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT) (2000-2999) | 1 | F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2342 | | C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342 | | W-L-2078, W-L-2075, W-L-2128 | CP 680, CP 643N, MINERAL WOOL, CP 644, FS-ONE MAX, CFS-S SIL SL, CFS-S SIL CG, CP 648 |
| | 2 | F-A 2053, F-A 2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2371, C-AJ-2342 | | C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342 | | W-L-2078, W-L-2075, W-L-2128 | |
| INSULATED PIPES (5000-5999) | 1 | F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090, C-AJ-5048 | | C-AJ-5090, C-AJ-5091, C-AJ 5061, W-J-5042 | | W-L-5028, W-L-5029, W-L-5047 | CP 680, FS-ONE MAX, MINERAL WOOL |
| | 2 | F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090 | | C-AJ-5090, C-AJ-5091, C-AJ-5061, W-J-5042 | | W-L-5028, W-L-5029, W-L-5047 | |
| MIXED PENETRANTS (8000-8999) | 1 | C-AJ-8099, C-AJ-8056, C-AJ-8143 | | C-AJ-8099, C-AJ-8056, W-J-8007, C-AJ-8143 | | W-L-1095, W-L-8013 | FS-ONE MAX, CFS-BL, CP 620, CP 618 |
| | 2 | C-AJ-8099, C-AJ-8056, C-AJ-8143, C-AJ-8252 | | C-AJ 8099, C-AJ-8056, W-J-8007, C-AJ-8143, C-AJ-8252 | | W-L-1095, W-L-8013 | |
| NOTES: | | | | | | | |
| 1. JOBSITE CONDITIONS OF EACH THROUGH-PENETRATION FIRESTOP SYSTEM MUST MEET ALL DETAILS OF THE UL-CLASSIFIED SYSTEM SELECTED. | | | | | | | |
| 2. IF JOBSITE CONDITIONS DO NOT MATCH ANY UL-CLASSIFIED SYSTEMS IN THE SCHEDULES ABOVE, CONTACT FIRESTOP MANUFACTURER FOR ALTERNATIVE SYSTEMS OR ENGINEER JUDGMENT DRAWINGS. | | | | | | | |
| 3. WHERE MORE THAN ONE APPLICABLE UL-CLASSIFIED SYSTEM IS LISTED IN THE SCHEDULES, CHOOSE THE UL SYSTEM WHICH IS MOST ECONOMICAL FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM. | | | | | | | |
| 4. COORDINATE WORK WITH OTHER TRADES TO ENSURE THAT PENETRATION OPENING SIZES ARE APPROPRIATE FOR PENETRANT LOCATIONS, AND VICE-VERSA. | | | | | | | |
| 5. ALL THROUGH-PENETRATION FIRESTOPS SHALL BE PROVIDED BY ONE MANUFACTURER. APPROVED MANUFACTURES: HILTI, RECTORESEAL, 3M, STL. | | | | | | | |

WATER HAMMER ARRESTERS

GROUPED FIXTURES

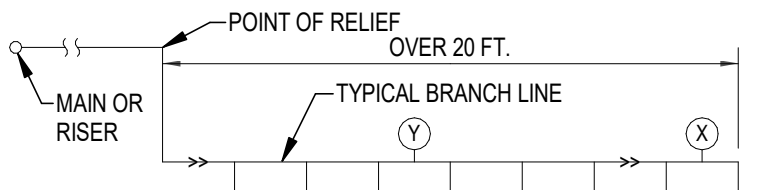
| TABLE 1 - FOR GROUPED FIXTURES | | | | | | |
|--------------------------------|-----|------|-------|-------|--------|---------|
| P.D.I. UNITS | AA | A | B | C | D | E |
| FIXTURE UNITS | 1-3 | 1-11 | 12-32 | 33-40 | 61-113 | 114-154 |

RULE 1 - MULTIPLE FIXTURES NOT EXCEEDING 20 FT.



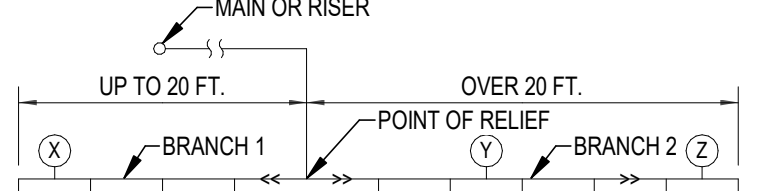
SELECTION METHOD:
USING TABLE 1, SIZE UNIT "X" FOR THE TOTAL FIXTURE UNITS OF BRANCH LINE.

RULE 2 - MULTIPLE FIXTURES EXCEEDING 20 FT.



SELECTION METHOD:
SIZE UNIT "X" AND UNIT "Y" SO THE SUM OF THE RATINGS IS EQUAL TO OR GREATER THAN TOTAL FIXTURE UNITS OF BRANCH LINE.

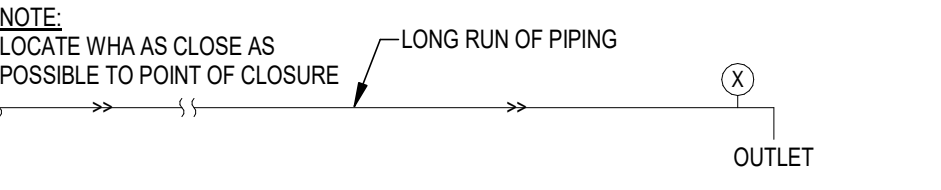
COMBINATION OF RULE 1 AND RULE 2



SELECTION METHOD:
USING TABLE 1, SIZE UNIT "X" FOR BRANCH 1 BASE ON RULE 1. SIZE UNITS "Y" AND "Z" BASED ON RULE 2.

LONG RUNS

| TABLE 2 - WATER PRESSURES UP TO 85 P.S.I.G. | | | | | | |
|---|------|------|----|--------|--------|-----|
| P.D.I. WATER HAMMER ARRESTERS | | | | | | |
| LENGTH OF PIPE (FT.) | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
| 25 | A | A | B | C | D | E |
| 50 | A | B | C | D | E | F |
| 75 | B | C | D | AB | F | EF |
| 100 | C | D | E | F | CF | FF |
| 125 | C | D | F | AF | EF | EFF |
| 150 | D | E | F | DF | FF | FFF |



SELECTION METHOD:
USING EITHER TABLE 2 OR 2A (BASED ON SYSTEM PRESSURE), SIZE UNIT "X" BASED ON SIZE OF PIPE AND LENGTH OF RUN.

GENERAL NOTE:
PROVIDE WATER HAMMER ARRESTERS IN ACCORDANCE WITH STANDARD PDH-WH201

APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

- ASHRAE
a. STANDARD 15
b. STANDARD 90.1
SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019
ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS - 2019
- OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).
- NATIONAL FIRE CODES
a. NFPA 1
b. NFPA 70
c. NFPA 101
UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
NATIONAL ELECTRICAL CODE - 2020
LIFE SAFETY CODE - 2021 (FLORIDA EDITION)
- FLORIDA BUILDING CODE, 2023 EDITION
a. BUILDING CODE
b. ENERGY CONSERVATION CODE
c. PLUMBING CODE
d. ACCESSIBILITY CODE
- FLORIDA STATUTES
a. CHAPTER 471
b. CHAPTER 535.80
ENGINEERING
BUILDING CONSTRUCTION STANDARDS, FLORIDA BUILDING CODE - ENFORCEMENT
- FLORIDA ADMINISTRATIVE CODE
a. CHAPTER 9B-7
b. CHAPTER 61G15-34
c. CHAPTER 69A-3
d. CHAPTER 69A-60
FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS
FIRE PREVENTION - GENERAL PROVISIONS
THE FLORIDA FIRE PREVENTION CODE

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

PIPING AND FITTINGS

| | |
|-------|---|
| → | CAP |
| ○ | ELBOW TURNED UP |
| ○ | ELBOW TURNED DOWN |
| ○ | TEE, OUTLET UP |
| ○ | TEE, OUTLET DOWN |
| --- | SANITARY, SOIL OR WASTE PIPING |
| --- | SANITARY VENT PIPING |
| - - - | COLD WATER SUPPLY PIPING |
| - - - | HOT WATER SUPPLY PIPING |
| - - - | HOT WATER RECIRCULATION PIPING |
| HB ↙ | HOSE BIBB |
| WH ↙ | WALL HYDRANT |
| WHA ↙ | WATER HAMMER ARRESTER - SEE DETAIL THIS SHEET |
| FD ● | FLOOR DRAIN - SEE DETAIL JIP501 |
| FD ■ | SQUARE FLOOR DRAIN - SEE DETAIL JIP501 |
| WCO ⇐ | WALL CLEAN OUT - SEE DETAIL EP501 |
| CO ⇐ | CLEAN OUT - SEE DETAIL EP501 |

VALVES

| | |
|---|---------------------------------------|
| ○ | BALL VALVE (WITH QUARTER TURN HANDLE) |
| + | CHECK VALVE |

MISCELLANEOUS

| | |
|------------------------|--|
| ☑ | HINGED CEILING ACCESS PANEL |
| MIN. LE. 36" B.F.F. | MINIMUM INVERT ELEVATION BELOW REFERENCE ELEVATION |
| → | POINT OF CONNECTION, PLUMBING TO CIVIL |
| 2 HOUR FIRE RATED WALL | 2 HOUR FIRE RATED WALL |

MINIMUM REQUIRED SLOPE

| ALL DRAINAGE PIPING | |
|---------------------|------------------------|
| PIPE SIZES, INCHES | MIN. SLOPE INCHES/FOOT |
| 2" | 1/4" |
| 3" | 1/8" |
| 4" | 1/8" |
| 6" | 1/8" |
| 8" | 1/16" |
| 10" | 1/16" |

NOTES:
1. COMBINATION DRAIN AND VENT PIPING SHALL BE RUN AT A MAXIMUM SLOPE OF 1/2" PER FOOT.

GENERAL NOTES

- INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2023, THE FLORIDA FIRE PREVENTION CODE, THE NATIONAL ELECTRICAL CODE 2020 EDITION, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- DRAWINGS ARE DIAGRAMMATIC. INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
- FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, CONTRACTOR IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF CONTRACTOR PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
- BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH CONTRACTOR WILL BE OBLIGED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON CONTRACTOR'S PART.
- THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH CONTRACTOR'S WORK.
- CONSTRUCTION MANAGER OR GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING AND COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
- WORK SHALL COMPLY WITH O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
- ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
- THE CONTRACTOR SHALL PROVIDE MANPOWER AND EQUIPMENT NECESSARY TO MAINTAIN THE PROJECT SCHEDULE.
- THE CONTRACTOR SHALL BE RESTRICTED TO AREAS DESIGNATED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS AND IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
- THE CONTRACTOR SHALL FURNISH "AS-BUILT" RECORD DOCUMENTS TO THE OWNER AT COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
- CONTRACTOR'S APPROVAL STAMP ON SUBMITTALS AND SHOP DRAWINGS CERTIFIES THAT THE CONTRACTOR HAS REVIEWED THE DOCUMENTS AND THAT THE CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN ADHERED TO.
- THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
- PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
- ENTRY AND/OR REMOVAL OF EQUIPMENT FROM THE BUILDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DISMANTLE AND REASSEMBLE EQUIPMENT AS NECESSARY FOR ENTRY INTO THE BUILDING AND/OR EQUIPMENT ROOMS. CONTRACTOR SHALL PATCH AND REPAIR ANY DAMAGED MATERIALS TO MATCH THE ADJACENT UNDAMAGED SURFACES.
- PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
- SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
- ALL EXTERIOR STRUCTURES AND EQUIPMENT SHALL BE INSTALLED TO RESIST 130 MPH WIND LOAD.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE WALL ASSEMBLIES AND ACoustICAL WALLS.
- BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
- CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
- CONTRACTOR SHALL COMPLY WITH "TRENCH SAFETY ACT" (FLORIDA STATUTE 553 PART III) AND OSHA STANDARD 29 CFR 1926.650 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL INDICATE WITHIN HIS BID RESPONSE A REFERENCE TO THE TRENCH SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH STANDARD.

PLUMBING NOTES

- INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE AND LOCAL PLUMBING CODES. WHERE CONFLICTS OCCUR BETWEEN CODES AND BETWEEN THE CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- ALL MISCELLANEOUS EQUIPMENT TO BE FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS THAT REQUIRE PIPING OR DUCT CONNECTIONS SHALL BE RECEIVED AND SET WITH ROUGH-IN AND FINAL CONNECTIONS MADE UNDER THESE SECTIONS.
- PRESSURE TEST ALL WATER PIPING SYSTEMS AT 150% OF NORMAL WORKING PRESSURE.
- ALL COPPER PRESURE PIPE SHALL BE SOLDERED ENTIRELY WITH LEAD-FREE SOLDER.
- INSTALLATION OF EQUIPMENT AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR MAINTENANCE.
- ALL FLOOR DRAINS AND FLOOR SINKS SHALL HAVE MINIMUM 3" DRAIN LINES, DEEP SEAL TRAPS AND AUTOMATIC TRAP PRIMERS (MANUFACTURER: PRECISION PLUMBING PRODUCTS).
- WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH PDH-WH201.
- ALL HOSE BIBBS, SILL COCKS AND/OR FAUCETS WITH HOSE CONNECTIONS SHALL HAVE A VACUUM BREAKER.
- GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES, HOWEVER SLOPE MUST BE STARTED AT HIGHEST POINT POSSIBLE.
- ALL WATER PIPING SUBJECT TO FREEZING SHALL BE FREEZE PROTECTED. THIS INCLUDES ALL PIPING IN UNHEATED SPACES SUCH AS EQUIPMENT ROOMS, CHASES, ATTICS, SOFFITS, CRAWL SPACES, EXTERIOR WALLS, CEILING, ETC.
- DO NOT LOCATE FLOOR DRAINS/SINKS UNDER EQUIPMENT. COORDINATE EXACT LOCATION OF DRAINS/SINKS WITH EQUIPMENT FURNISHED.
- ALL PLUMBING VENTS SHALL BE 2" MINIMUM, UNLESS NOTED OTHERWISE.
- PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANEL SHALL BE FIRE RATED IF INSTALLED IN A FIRE RATED CEILING OR WALL.
- A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE, SOIL STACK OR RAIN LEADER, WHETHER SHOWN ON THE DRAWINGS OR NOT.
- ANY PIPE THAT PASSES UNDER A FOOTING OR THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE. SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.

ABBREVIATIONS

| | | | |
|------|--------------------------|-------|------------------------|
| AC | ABOVE CEILING | IE | INVERT ELEVATION |
| AF | ABOVE FLOOR | IMB | ICE MAKER HOOK-UP BOX |
| AFF | ABOVE FINISHED FLOOR | LV | LAVATORY |
| AHAP | AS HIGH AS POSSIBLE | MSB | MOP SERVICE BASIN |
| BF | BELOW FLOOR | NA | NOT APPLICABLE |
| BG | BELOW GRADE | PSAN | SANITARY |
| CWS | COLD WATER SUPPLY | PVENT | VENT |
| CWV | COMBINATION WASTE & VENT | SK | SINK |
| DFU | DRAINAGE FIXTURE UNIT | SK | SINK |
| DN | DOWN | TYT | TYPICAL |
| EX | EXISTING | UR | URINAL |
| EWC | ELECTRIC WATER COOLER | VTR | VENT THROUGH ROOF |
| FD | FLOOR DRAIN | W | WATER HAMMER ARRESTOPR |
| HB | HOSE BIBB | WC | WATER CLOSET |
| HP | HORSEPOWER | WCO | WALL CLEANOUT |
| HWS | HOT WATER SUPPLY | WH | WALL HYDRANT |
| HWR | HOT WATER RECIRCULATION | | |

DRAWING INDEX

| | |
|------|-------------------------|
| P001 | GENERAL NOTES & LEGENDS |
| P101 | FLOOR PLAN |
| P301 | RISER DIAGRAMS |
| P401 | SCHEDULES |
| P501 | DETAILS |



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Submittal

| Phase | Date | Drw | Chk |
|----------|---------|-----|-----|
| 100% CDs | 7/21/25 | FPH | MPP |

Revision

| # | Description | Date |
|---|-------------|------|
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CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
GENERAL NOTES & LEGENDS
P001



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| 100% CDs | 7/21/25 | FPH | MPP |

Revision

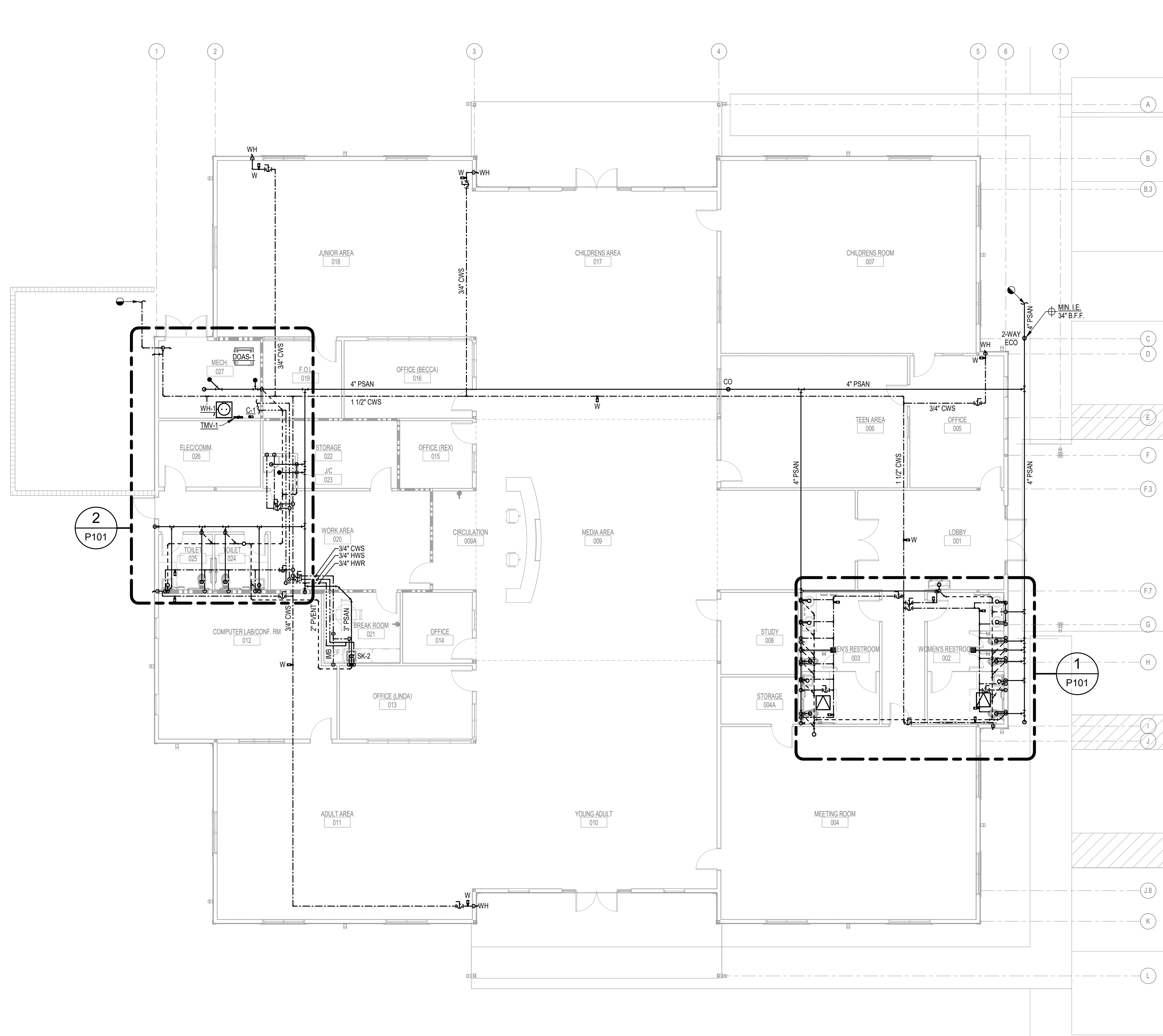
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CRA Project # 24071

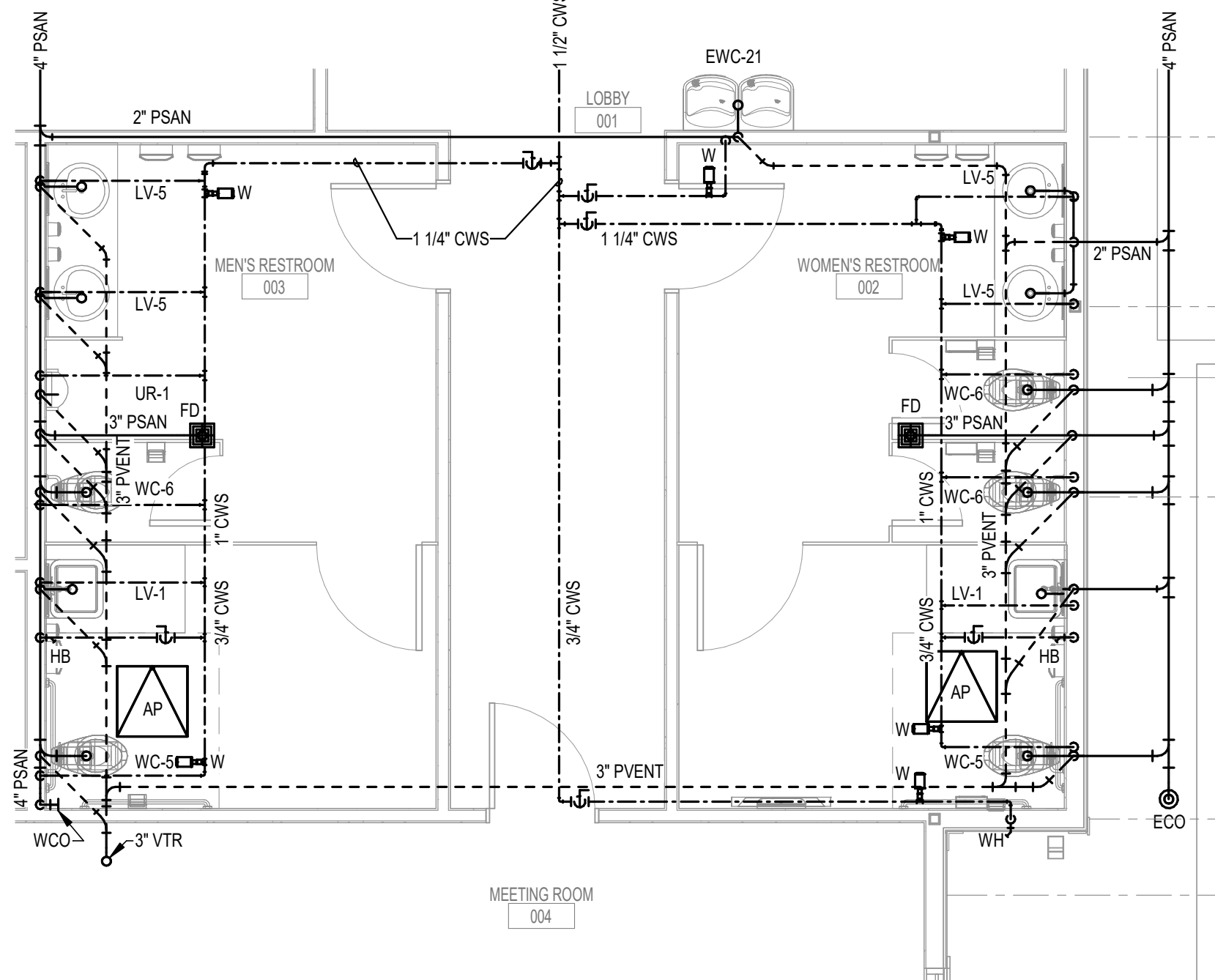
Phase: 100% CONSTRUCTION
DOCUMENTS

SHEET TITLE
FLOOR PLAN

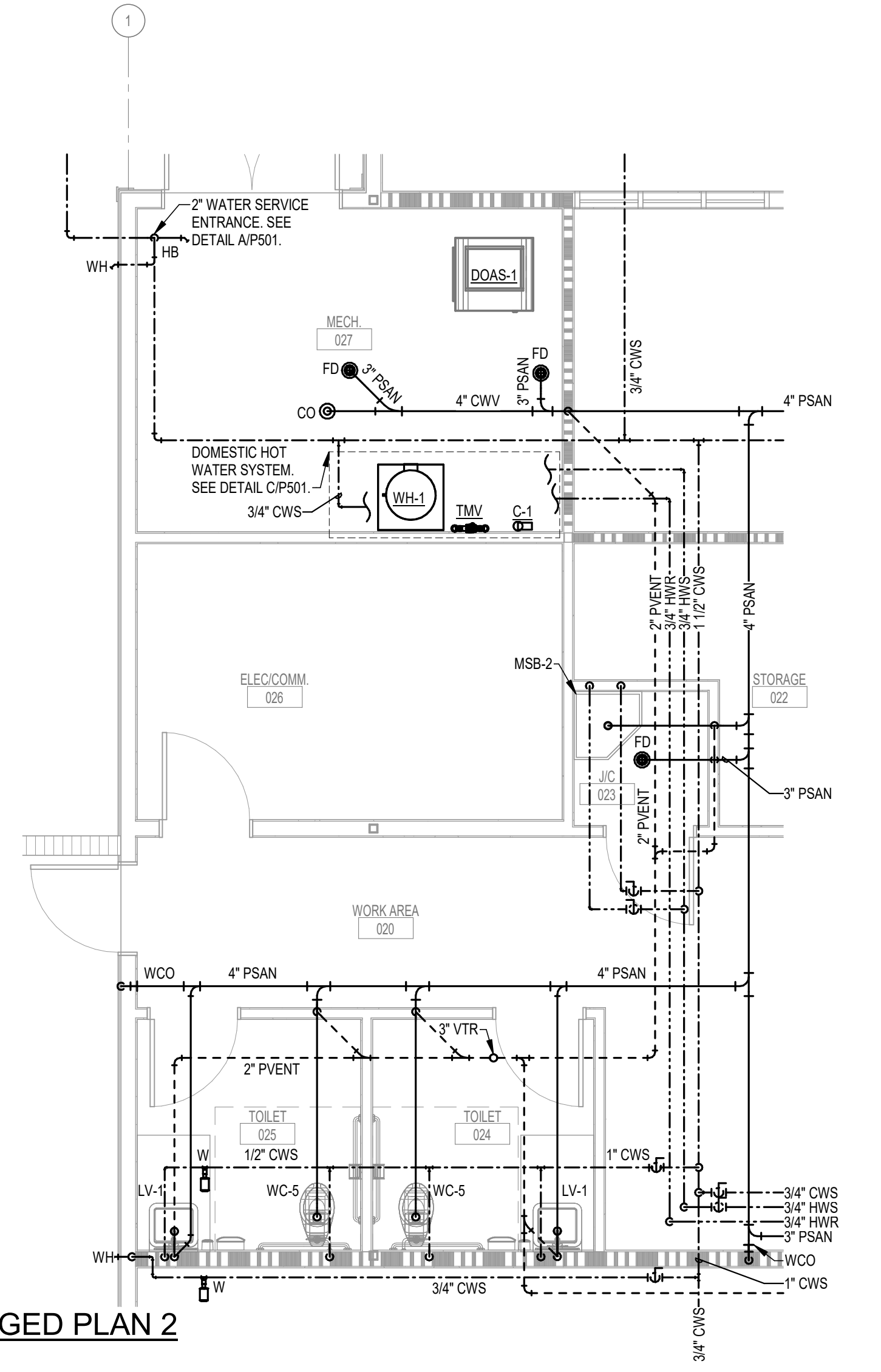
P101



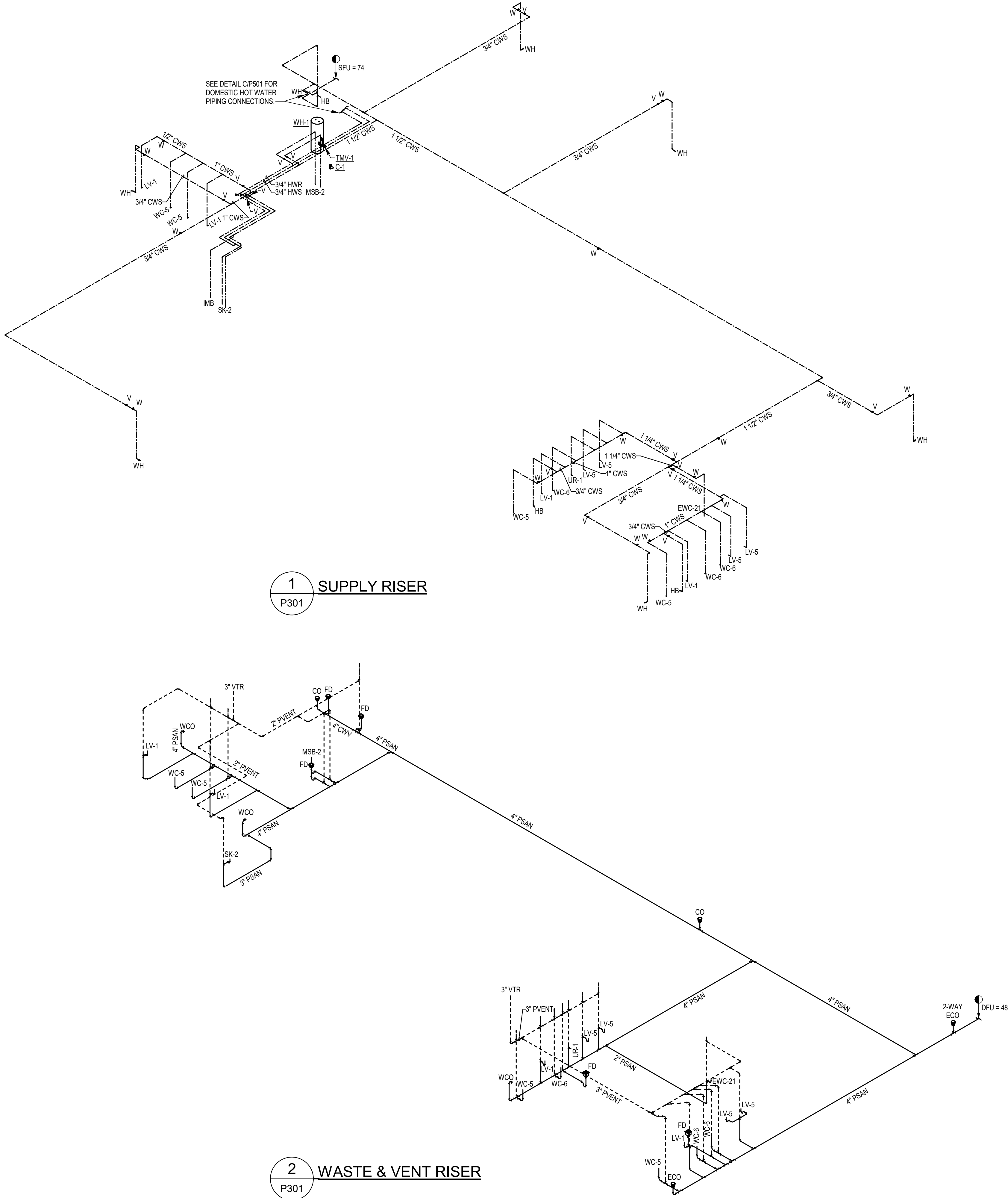
FLOOR PLAN
Scale: 1/8" = 1'-0"



1 ENLARGED PLAN 1
1/4" = 1'-0"



2 ENLARGED PLAN 2
1/4" = 1'-0"





H2

ENGINEERING

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CRAWFORDVILLE, FL



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| Submittal | | | | |
|-----------|---------|-----|-----|--|
| Phase | Date | Drw | Chk | |
| 100% CDs | 7/21/25 | FPH | MPP | |
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| # | Description | Date |
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CRA Project # **24071**

Phase: **100% CONSTRUCTION DOCUMENTS**

SHEET TITLE
RISER DIAGRAMS

P301

PLUMBING FIXTURE ACCESSORY SCHEDULE

| ACCESSORY TAG | ACCESSORY DESCRIPTION | MANUFACTURER AND MODEL NUMBER |
|----------------------|---|--|
| DR-LV-C | 1-1/4" CHROME PLATED BRASS OFFSET DRAIN WITH TAIL PIECE. PROVIDE A PERFORATED FLAT CHROME BRASS STRAINER. | ELKAY: LKAD174 OR APPROVED EQUAL |
| DR-SK-STD | TYPE 304 STAINLESS STEEL DRAIN, REMOVEABLE CONICAL STRAINER BASKET, 1-1/2" STAINLESS STEEL OFFSET TAILPIECE. | ELKAY: LK35/LKAD35 OR APPROVED EQUAL |
| FCT-LV-0.5-AUTO-B | SINGLE INLET, DECK MOUNTED FAUCET, A.D.A. COMPLIANT, 4" CENTERSET, POLISHED CHROME PLATED BRASS, LEAD FREE, BATTERY POWERED, SENSOR OPERATED, 0.5 GPM AERATOR WITH PRESSURE COMPENSATING FLOW CONTROL. | AMERICAN STANDARD: 605B.205 OR APPROVED EQUAL |
| FCT-MSB | SERVICE SINK FAUCET, POLISHED CHROME PLATED BRASS, BUILT-IN STOPS, VACUUM BREAKER, LEVER HANDLES, WALL BRACE, 3/4" HOSE OUTLET. | T&S BRASS: B-0665-BSTP OR APPROVED EQUAL |
| FCT-SK-1.5-GEN-SPRAY | SINGLE LEVER DECK MOUNTED FAUCET, POLISHED CHROME PLATED BRASS, 9" SWING SPOUT, 1.5 GPM AT 80 PSI AERATOR, HOSE AND SPRAY, SOFT-CLOSING VALVE WITH INTEGRAL FLOW CONTROL AND ADJUSTABLE STOP TO RESTRICT EXTREME TEMPERATURES. PROVIDE COVER PLATE. | T&S BRASS: B-2730 OR APPROVED EQUAL |
| FV-0.125-MAN | EXPOSED MANUAL, PISTON TYPE, URINAL FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 1" SCREWDRIVER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE. | AMERICAN STANDARD: 6045.013.002 OR APPROVED EQUAL |
| FV-1.28-MAN | EXPOSED MANUAL, PISTON TYPE, WATER CLOSET FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 1.28 GPF, 1" SCREWDRIVER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE. | AMERICAN STANDARD: 6047.121.002 OR APPROVED EQUAL |
| HGR-MSB | STAINLESS STEEL HANGER, WITH THREE RUBBER TOOL GRIPS. | FIAT: 889CC OR APPROVED EQUAL |
| HOSE-MSB | HEAVY DUTY, FLEXIBLE HOSE, 5/8" RUBBER, CLOTH REINFORCED, 3/4" BRASS COUPLING, TYPE 302 STAINLESS STEEL BRACKET WITH RUBBER GRIP. | FIAT: 832AA OR APPROVED EQUAL |
| RMGD-MSB | ALUMINUM RIM GUARD. | FIAT: 1239BB OR APPROVED EQUAL |
| SEAT-OPN-FRT | EXTRA HEAVY DUTY, OPEN FRONT, ELONGATED SEAT, WITHOUT COVER, SOLID PLASTIC, SELF-SUSTAINING CHECK TYPE HINGE. HINGES SHALL MATCH SEAT COLOR. STAINLESS STEEL POSTS FITTED WITH STAINLESS STEEL WASHERS AND NUTS. | BEMIS: 1655SSCT OR APPROVED EQUAL |
| TR-LV | CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/4" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH. | ELKAY: LK500 OR APPROVED EQUAL |
| TR-SK-STD | CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/2" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH. | KOHLER: K-9000-CP OR APPROVED EQUAL |

| CIRCULATOR PUMPS | | | |
|------------------|---|--------|------------|
| DESIGNATION | | | C-1 |
| | SERVICE | | DHW |
| | CAPACITY | GPM | 4 |
| | TOTAL DYNAMIC HEAD | FT. | 27 |
| | SHUT-OFF HEAD | FT. | 35 |
| | PUMP SEAL | | MECHANICAL |
| | MOTOR SPEED | RPM | 3,250 |
| | MOTOR HORSEPOWER | HP | 1/8 |
| | MOTOR WINDING | | FULL |
| | ELECTRICAL CHARACTERISTICS | V / PH | 120 / 1 |
| NOTES | | 1 | |
| MANUFACTURER | | | TACO |
| MODEL NUMBER | | | 009-SF5 |
| DETAIL REFERENCE | | | C/P501 |
| NOTES: | | | |
| 1 | PROVIDE TACO 00 TIMER/AQUASTAT WITH 7 DAY DIGITAL PROGRAMMABLE TIMER. SET TIMER FOR ALLOWABLE OPERATION DURING OCCUPIED HOURS AND AQUASTAT TO CYCLE PUMP. | | |
| 2 | PLUMBING CONTRACTOR TO COORDINATE INSTALLATION OF TIMER AND AQUASTAT WITH ELECTRICAL CONTRACTOR AND INSTALL PER MANUFACTURER INSTRUCTIONS. | | |

PLUMBING FIXTURE SCHEDULE

| FIXTURE DESIGNATION | FIXTURE DESCRIPTION | A.D.A. COMPLIANT | MOUNTING METHOD | HEIGHT (A.F.F.) | ROUGH-IN PIPE SIZES | | | | MANUFACTURER AND MODEL NUMBER | ACCESSORIES (SEE SCHEDULE) |
|---------------------|---|------------------|-----------------|------------------|---------------------|------------------|--------------|---------------|--|---|
| | | | | | COLD WATER SUPPLY | HOT WATER SUPPLY | FIXTURE TRAP | FIXTURE DRAIN | | |
| WC-5 | TANK TYPE WATER CLOSET, STANDARD FLOW (1.6 GPF), VITREOUS CHINA, PRESSURE ASSISTED SIPHON JET FLUSHING ACTION, ELONGATED RIM, 1-1/2" TOP SPUD, MIN. 2" BALLPASS TRAPWAY, WITH CHINA BOLT CAPS AND BEESWAX GASKET. COLOR: WHITE. | YES | FLOOR | RIM: 16-1/2" | 1/2" | N/A | 4" | 4" | AMERICAN STANDARD: 2467.016 OR APPROVED EQUAL | SEAT-OPN-FRT FV-1.28-MAN |
| WC-6 | TANK TYPE WATER CLOSET, STANDARD FLOW (1.6 GPF), VITREOUS CHINA, PRESSURE ASSISTED SIPHON JET FLUSHING ACTION, ELONGATED RIM, 1-1/2" TOP SPUD, MIN. 2" BALLPASS TRAPWAY, WITH CHINA BOLT CAPS AND BEESWAX GASKET. COLOR: WHITE. | NO | FLOOR | RIM: 15" | 1/2" | N/A | 4" | 4" | AMERICAN STANDARD: 2462.016 OR APPROVED EQUAL | SEAT-OPN-FRT FV-1.28-MAN |
| UR-1 | FLUSH VALVE URINAL, ULTRA HIGH EFFICIENCY (0.125 - 1.0 GPF), VITREOUS CHINA, WASHOUT FLUSHING ACTION, 3/4" TOP SPUD. COLOR: WHITE. | YES | WALL | RIM: 17" | 3/4" | N/A | 2" | 2" | AMERICAN STANDARD: 6590.001 OR APPROVED EQUAL | FV-0.125-MAN |
| LV-1 | LAVATORY, 20"x18", VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), ANTI-SPLASH RIM AND HIGH BACK. COLOR: WHITE. | YES | WALL | RIM: 34" | 1/2" | N/A | 1-1/4" | 2" | AMERICAN STANDARD: 0355.012 OR APPROVED EQUAL | FCT-LV-0.5-AUTO-B DR-LV-C TR-LV |
| LV-5 | LAVATORY, 20"x17" OVAL, VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), SELF-RIMMING. COLOR: WHITE. | YES | COUNTER TOP | SEE ARCH. PLANS | 1/2" | N/A | 1-1/4" | 2" | AMERICAN STANDARD: 0440.444.EC OR APPROVED EQUAL | FCT-LV-0.5-AUTO-B DR-LV-C TR-LV |
| SK-2 | SINGLE COMPARTMENT SINK, SELF-RIMMING, 22"x19-1/2", 18"x14"x10-1/8" DEEP BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 FAUCET HOLES (ONE CENTERED, TWO 4" FROM CENTER, ONE 8" FROM CENTER), SOUND DEADENING COATING ON BOTTOM OF SINK. | NO | COUNTER TOP | SEE ARCH. PLANS | 1/2" | 1/2" | 1-1/2" | 2" | ELKAY: DLR221910-4 OR APPROVED EQUAL | FCT-SK-1.5-GEN-SPRA DR-SK-STD TR-SK-STD |
| MSB-2 | MOP SERVICE SINK BASIN, 24"L x 24"W x 12"H, WITH 2" WIDE SHOULDERS, 1/4" PITCH TOWARD INSIDE, PRECAST TERRAZZO (MINIMUM 3,000 PSI @ 7 DAYS), SURFACE GROUND AND POLISHED WITH ALL HOLES AND PITS GROUTED AND WITH EXCESS REMOVED. COLOR: BLACK & WHITE MARBLE CHIPS IN GRAY PORTLAND CEMENT. | NO | FLOOR | --- | 1/2" | 1/2" | 3" | 3" | FIAT: TSB-200 OR APPROVED EQUAL | FCT-MSB RMGD-MSB HOSE-MSB HGR-MSB |
| IMB | ICE MAKER HOOK-UP BOX, 20 GAUGE STEEL, WHITE POWDER-COATED, ALL WELDED WATER TIGHT CONSTRUCTION, COLD WATER SUPPLY VALVE WITH 1/2" COPPER SWEAT INLET AND 1/4" COMPRESSION OUTLET AND WATER HAMMER ARRESTER. | N/A | WALL RECESSED | -- | 1/2" | N/A | N/A | N/A | GUY GRAY: MIB1HAAB OR APPROVED EQUAL | |
| EW-C21 | ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION, FILTERED, BARRIER-FREE, TYPE 304 STAINLESS STEEL BASIN, BRUSHED FINISH, VANDAL-RESISTANT BUBBLER, STAINLESS STEEL CABINET AND CANE APRON, LEAD-FREE WATERWAYS, SELF CONTAINED SYSTEM (R-134A REFRIGERANT) DELIVERS MIN. 8 GPH OF 50°F WATER @ 80°F, INLET WATER AND 90°F AMBIENT AIR, 120W/1PH. BOTTLE FILLING STATION: ELECTRONIC SENSOR ACTIVATED WITH AUTOMATIC 20-SECOND SHUT-OFF TIMER AND BOTTLE COUNTER. DELIVERS MIN. 1 GPM FLOW RATE WITH LAMINAR FLOW. ANTI-MICROBIAL PLASTIC COMPONENTS. | YES | WALL SURFACE | SPOUT: 38" / 32" | 1/2" | N/A | 1-1/4" | 2" | ELKAY: LZSTLGBWSSK OR APPROVED EQUAL | |

NOTES:

1
SUPPLY STOPS: CHROME-PLATED-BRASS, ONE-QUARTER TURN, BALL-TYPE OR COMPRESSION VALVE WITH INLET MATCHING SUPPLY PIPING.

2
FLEXIBLE CONNECTIONS: ASME A112.18.6 BRAIDED- OR CORRUGATED-STAINLESS STEEL, FLEXIBLE HOSE RISER.

3
SUPPORT CARRIERS: ASME A112.6.1M TYPE 1 (URINALS) OR TYPE 2 (CONCEALED ARM FOR LAVATORIES) WITH RECTANGULAR STEEL UPRIGHTS, COUPLING, SEAL, AND MOUNTING HARDWARE.

4
A.D.A. LAVATORIES & SINKS: PROTECT DRAIN AND SUPPLY LINES WITH "TRAP WRAP" OR APPROVED EQUAL.

5
EXTRA MAINTENANCE MATERIALS: FURNISH TWO (2) FLUSHOMETER-VALVE REPAIR KITS FOR EACH TYPE OF FLUSHOMETER VALVE INSTALLED.

THERMOSTATIC MIXING VALVES

| | | | |
|------------------|----------------------------|-----|-----------|
| DESIGNATION | | | TMV-1 |
| | APPLICATION | | MED / LOW |
| | SET-POINT | "F | 110 |
| | MINIMUM FLOW | GPM | 0.5 |
| | MAXIMUM FLOW | GPM | 10 |
| | PRESSURE DROP @ MAX FLOW | PSI | 10 |
| | RECIRCULATED SYSTEM | | YES |
| | ASSE COMPLIANCE | | 1017 |
| MANUFACTURER | | | LAWLER |
| MODEL NUMBER | | | 61-25 |
| DETAIL REFERENCE | | | C/P501 |
| <u>NOTES:</u> | | | |
| 1 | PROVIDE ROUGH BRASS FINISH | | |

ELECTRIC STORAGE WATER HEATERS

| | | |
|------------------|------------------------------------|---------|
| DESIGNATION | | WH-1 |
| | STORAGE | 30 |
| | HEATING ELEMENT INPUT (EACH) | 6.0 |
| | NUMBER OF ELEMENTS | 2 |
| | SIMULTANEOUS OPERATION OF ELEMENTS | NO |
| | TOTAL HEATING INPUT | 6.0 |
| | ENTERING WATER TEMPERATURE | 60 |
| | LEAVING WATER TEMPERATURE | 140 |
| | TEMPERATURE RISE | 80 |
| | RECOVERY RATE | 31 |
| | ELECTRICAL CHARACTERISTICS | 208 / 1 |
| MANUFACTURER | A.O. SMITH | |
| MODEL NUMBER | DEN-30 | |
| DETAIL REFERENCE | C/P501 | |
| NOTES: | | |
| 1 | PROVIDE LOW WATER CUT-OFF. | |

FIXTURE UNIT CALCULATIONS

| FIXTURE TYPE | | QUANTITY | WASTE | | SUPPLY | | | | | |
|-----------------------------|--------------------------|----------|-------|-------|--------|-------|------|-------|-------|-------|
| | | | | | COLD | | HOT | | TOTAL | |
| | | | UNIT | TOTAL | UNIT | TOTAL | UNIT | TOTAL | UNIT | TOTAL |
| | DRINKING FOUNTAIN | 1 | 0.5 | 0.5 | 0.25 | 0.25 | | | 0.25 | 0.25 |
| | LAVATORY (COLD WATER) | 8 | 1 | 8 | 2 | 16 | | | 2 | 16 |
| | SINK | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| | MOP SERVICE BASIN | 1 | 2 | 2 | 2.25 | 2.25 | 2.25 | 2.25 | 3 | 3 |
| | URINAL (3/4" VALVE) | 1 | 4 | 4 | 5 | 5 | | | 5 | 5 |
| | WATER CLOSET (TANK) | 7 | 3 | 21 | 2 | 14 | | | 2 | 14 |
| | HOSE BIBB / WALL HYDRANT | 8 | | | 4 | 32 | | | 4 | 32 |
| | FLOOR DRAIN | 5 | 2 | 10 | | | | | | |
| | REFRIGERATOR / ICE MAKER | 1 | | | 1 | 1 | | | 1 | 1 |
| TOTAL FIXTURE UNITS | | | | 48 | | 73 | | 4 | | 74 |
| DOMESTIC WATER DEMAND (GPM) | | | | | | 35.8 | | 5.5 | | 36.3 |



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|----------|---------|-----|-----|
| 100% CDs | 7/21/25 | FPH | MPP |
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Revision

[illegible]

CRA Project # 24071

Phase: **100% CONSTRUCTION DOCUMENTS**

SHEET TITLE

SCHEDULES

P401

