

| PLUMBING LEGEND | |
|----------------------|---------------------------------|
| PIPING | |
| | DOMESTIC COLD WATER PIPING (CW) |
| | DOMESTIC HOT WATER PIPING (HW) |
| | NATURAL GAS PIPING (G) |
| | SANITARY PIPING (SAN) |
| | VENT PIPING (V) |
| SYMBOLS | |
| | BALL VALVE |
| | CAP |
| | CHECK VALVE |
| | FLOOR SINK (FS) |
| | GAS COCK |
| | GAS PRESSURE REGULATOR |
| | PIPE CONTINUES |
| | PIPE DOWN |
| | PIPE UP |
| | T&P RELIEF VALVE |
| | THERMOMETER |
| | UNION |
| ABBREVIATIONS | |
| AAV | AIR ADMITTANCE VALVE |
| ABV | ABOVE |
| AFF | ABOVE FINISHED FLOOR |
| AHAP | AS HIGH AS POSSIBLE |
| BLW | BELOW |
| CLG | CEILING |
| DN | DOWN |
| E.C. | ELECTRICAL CONTRACTOR |
| EX, EXIST, (E) | EXISTING |
| FLR | FLOOR |
| G.C. | GENERAL CONTRACTOR |
| M.C. | MECHANICAL CONTRACTOR |
| P.C. | PLUMBING CONTRACTOR |
| T&P | TEMPERATURE AND PRESSURE |
| TYP | TYPICAL |
| W | WASTE |

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

- GENERAL AND SPECIAL CONDITIONS: GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THIS DIVISION OF THE SPECIFICATIONS INSOFAR AS SAME ARE APPLICABLE TO THE WORK UNDER THIS DIVISION AND UNLESS OTHERWISE SPECIFIED.
- SCOPE: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
- CODE COMPLIANCE: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, BUILDING DEPARTMENTS, AND DEPARTMENT OF HEALTH, APPLICABLE NATIONAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE CODES, LAWS, OR REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH A VIOLATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND AT NO EXPENSE TO THE OWNER.
- PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
- WARRANTY: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
- RECORD DRAWINGS: CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL AS-BUILT CONDITIONS DURING CONSTRUCTION AND TURN OVER ONE COPY EACH TO THE OWNER AND THE ARCHITECT AFTER COMPLETION.
- OPERATING MANUALS: CONTRACTOR SHALL FURNISH TO THE OWNER 3 SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL MAJOR PIECES OF EQUIPMENT.
- COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO EXPENSE TO THE OWNER.
- FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS, AND/OR ANY POTENTIAL PROBLEMS OBSERVED, BEFORE CONTINUING WORK IN THE AFFECTED AREAS.
- SUBMITTALS: AS A MINIMUM, THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL ITEMS SCHEDULED ON THE DRAWINGS, UNLESS DIRECTED OTHERWISE.
- SUBSTITUTIONS: THE PRODUCTS SPECIFIED ON THE DRAWINGS ARE THE BASIS OF DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUBSTITUTIONS MADE WITHOUT PRIOR WRITTEN APPROVAL MEET THE DRAWING SPECIFICATIONS AND FIT WITHIN THE SPACES PROVIDED.
- PROVIDE CONCRETE HOUSE KEEPING PADS FOR ALL PLUMBING EQUIPMENT SET ON FLOORS, UNLESS OTHERWISE NOTED. PADS SHALL BE A MINIMUM OF 4" HIGH AND A MINIMUM OF 8" LARGER THAN EQUIPMENT BASES ON ALL SIDES. CHAMFER ALL EDGES.
- PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
 - PLUMBING DEMOLITION
 - PLUMBING FIXTURES AND EQUIPMENT
 - FIRE STOPPING
 - SANITARY WASTE AND VENT SYSTEM
 - DOMESTIC WATER SYSTEM
 - NATURAL GAS SYSTEM

DEMOLITION:

- DISCONNECT AND REMOVE ALL EXISTING PLUMBING FIXTURES, EQUIPMENT, AND ALL ASSOCIATED PIPING AND TRIM. WHERE EXISTING FIXTURES OR EQUIPMENT ARE BEING REPLACED WITH NEW, EXISTING PIPING SHALL REMAIN AND SHALL BE EXTENDED/MODIFIED AS REQUIRED TO CONNECT TO NEW FIXTURES OR EQUIPMENT.
- ALL SANITARY WASTE AND VENT PIPING NO LONGER REQUIRED SHALL BE REMOVED TO ELIMINATE DEAD ENDS, AND SHALL BE SEALED AIR AND WATER TIGHT IN A MANNER TO AVOID BLOCKAGE OF PORTIONS OF SANITARY WASTE AND VENT PIPING REMAINING IN USE. CLEANOUTS MAY BE INSTALLED AT THE END OF DEAD ENDS BELOW SLABS ON GRADE TO AVOID CUTTING OF FLOOR SLABS.
- ALL DOMESTIC WATER PIPING AND ALL NATURAL GAS PIPING NO LONGER REQUIRED SHALL BE REMOVED.
- ALL PLUMBING FIXTURES, TRIM, EQUIPMENT AND PIPING REMOVED FROM THE BUILDING SHALL BE OFFERED TO THE OWNER. ALL ITEMS NOT RETAINED BY THE OWNER BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
- WHERE PLUMBING PIPING IS CONCEALED IN EXISTING WALLS, FLOORS, OR CEILINGS (OTHER THAN LAY-IN TILE CEILINGS) NOT SUBJECT TO REMOVAL, THE CONTRACTOR MAY REMOVE ALL EXPOSED PIPING AND TRIM AND ABANDON/CONCEAL REMAINING PIPING. REMAINING PIPING SHALL BE CAPPED/PLUGGED AIR AND WATER TIGHT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED CEILING TILES AND PATCHING ALL HOLES IN REMAINING WALLS, FLOORS, OR CEILINGS RESULTING FROM THE REMOVAL OF PLUMBING ITEMS. ALL PATCHED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES.

FIXTURES:

- PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. EXPOSED COPPER OR BRASS MATERIALS SHALL BE CHROME PLATED.
- SEAL ALL EDGES OF PLUMBING FIXTURES IN CONTACT WITH FLOORS, WALLS, OR COUNTERTOPS USING SANITARY-TYPE, ONE-PART, MILDEW RESISTANT SILICONE SEALANT. MATCH SEALANT COLOR TO FIXTURE COLOR.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.

FIRE STOPPING:

- FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS, AND PARTITIONS. PROVIDE DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE DEVICE(S) OR SYSTEM(S) WITH AN "R" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

SANITARY WASTE AND VENT PIPING:

- FURNISH AND INSTALL COMPLETE SYSTEMS OF SANITARY WASTE AND VENT PIPING FROM ALL PLUMBING FIXTURES AND/OR EQUIPMENT REQUIRING WASTE AND VENT CONNECTIONS: ALL WASTE AND VENT PIPING SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
- SANITARY WASTE AND VENT PIPING BELOW GROUND: ASTM A 74, SERVICE WEIGHT, HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS; AND GASKETED JOINTS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
- SANITARY WASTE AND VENT PIPING ABOVE GROUND: ASTM A 888 AND CISPI 301, HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; AND HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
- IF PERMITTED BY LOCAL CODES, ASTM D 2865 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 3311 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED FOR SANITARY WASTE AND VENT PIPING ABOVE AND BELOW GROUND. PVC PIPING INSTALLED IN RETURN AIR PLENUMS MUST BE PROTECTED WITH 3M FIRE BARRIER PLENUM WRAP SA+, OR SIMILAR PRODUCT. ALL BURIED PVC PIPING SHALL BE INSTALLED PER ASTM D 2321.
- TESTING: CLOSE OPENINGS IN PIPING SYSTEM AND FILL WITH WATER TO POINT OF OVERFLOW, BUT NOT LESS THAN 10-FOOT HEAD OF WATER. MAINTAIN PRESSURE FOR NOT LESS THAN 15 MINUTES.
- INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE SANITARY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. SLOPE SANITARY PIPING 2-1/2' AND SMALLER AT 1/4" PER FOOT MINIMUM, AND SLOPE SANITARY PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM.
- WHERE SANITARY PIPING IS EXPOSED IN TOILET ROOMS, PROVIDE CHROME-PLATED BRASS PIPING WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEANOUT PLUG FOR ALL LAVATORIES AND HAND SINKS.
- INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS.
- ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP INTO AN APPROVED WASTE RECEPTOR. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.

DOMESTIC WATER PIPING:

- FURNISH AND INSTALL A COMPLETE SYSTEM OF DOMESTIC HOT AND COLD WATER FROM EXISTING SUPPLIES TO ALL FIXTURES AND/OR EQUIPMENT REQUIRING DOMESTIC WATER SUPPLIES. VERIFY LOCATION OF BEGINNING POINTS.
- DOMESTIC WATER PIPING: ASTM B 88 TYPE 'L' HARD COPPER TUBE WITH WROT COPPER FITTINGS, AND SOLDERED OR PRESSURE-SEALED JOINTS.
- IF PERMITTED BY LOCAL CODES, ASTM F876 CROSSLINKED POLYETHYLENE PEX-A TUBING, AND ASTM F1960 PEX-A COLD EXPANSION FITTINGS, MANUFACTURED BY UPONOR OR REHAU, MAY BE USED. ALL FIXTURE ROUGH-INS MUST BE COPPER.
- TESTING: CAP AND SUBJECT WATER PIPING TO STATIC WATER PRESSURE OF 100 PSI OR 50 PSI ABOVE OPERATING PRESSURE, WHICHEVER IS GREATER, WITHOUT EXCEEDING THE PRESSURE RATING OF THE MATERIALS. MAINTAIN PRESSURE FOR NOT LESS THAN 15 MINUTES.
- CLEANING: CLEAN AND DISINFECT NEW PIPING AND EXISTING PIPING THAT HAS BEEN ALTERED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- INSULATE DOMESTIC WATER PIPING ABOVE GROUND (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH 1" THICKNESS ENGINEERED POLYMER FOAM INSULATION, OR MINERAL-FIBER PREFORMED PIPE INSULATION WITH FACTORY-APPLIED ASJ.
- DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES SHALL NOT EXCEED A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH WALLS AND PARTITIONS.
- DO NOT INSTALL DOMESTIC WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
- SHUT-OFF VALVES SHALL BE TWO-PIECE, BRONZE, FULL PORT, BALL TYPE, MANUFACTURED BY APOLLO OR NIBCO. PROVIDE SHUT-OFF VALVES WHERE INDICATED ON THE DRAWINGS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE AND OPERATION WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS IF REQUIRED.
- PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER-PLATED.

NATURAL GAS PIPING:

- WORK TO INCLUDE PIPING FROM GAS METER, OR EXISTING PIPING, TO ALL GAS-FIRED EQUIPMENT SERVING BUILDING, INCLUDING FINAL CONNECTIONS TO EQUIPMENT.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA FUEL GAS CODE (NCFGC), ALL APPLICABLE LOCAL CODE REQUIREMENTS, THE PROVISIONS OF NFPA 54, AND THE REGULATIONS OF THE GAS COMPANY PROVIDING SERVICE.
- THE GAS PIPING SYSTEM HAS BEEN DESIGNED USING THE LONGEST LENGTH METHOD WITH THE FOLLOWING CRITERIA:
 - GAS TYPE: NATURAL GAS
 - INLET PRESSURE: 2.0 PSI
 - PRESSURE DROP: 1.0 PSI
 - SPECIFIC GRAVITY: 0.60
 - SYSTEM LENGTH: 250 FT
 - TOTAL LOAD: 440 MBH (1 MBH = 1 CFH)
 - SIZING TABLE: 2018 NCFGC, TABLE 402.4(5)
- NATURAL GAS PIPING: ASTM A 53 SCHEDULE 40 SEAMLESS BLACK STEEL PIPE WITH MALLEABLE FITTINGS AND THREADED JOINTS.
- TEST, INSPECT, AND PURGE ALL NEW PIPING AND ALL EXISTING PIPING THAT HAS BEEN ALTERED IN ACCORDANCE WITH NFPA 54, NCFGC, AND AUTHORITY HAVING JURISDICTION.
- VALVES SHALL BE FULL PORT BALL VALVES APPROVED FOR USE IN NATURAL GAS PIPING SYSTEMS.
- PROVIDE SHUT-OFF VALVE, UNION, VENTLESS GAS REGULATOR, DRIP LEG, AND TEST CONNECTION AT EACH PIECE OF GAS-FIRED EQUIPMENT TO PROVIDE PRESSURE TO EQUIPMENT AS REQUIRED BY MANUFACTURER.
- ALL GAS PIPING LOCATED ON ROOFS SHALL BE INSTALLED ON MANUFACTURED PIPE SUPPORTS SIMILAR TO ERICO CADDY PYRAMID 50. WOOD BLOCKING WILL NOT BE PERMITTED.
- ALL PIPING EXPOSED TO THE OUTDOORS OR EXPOSED IN FINISHED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL. COLOR SELECTED BY ARCHITECT, OR AS REQUIRED BY GAS COMPANY.



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10/01/2021

SPIRITED CYCLIST

16601 OLD STATESVILLE ROAD
HUNTERSVILLE, NC 28078

SHEET TITLE:
PLUMBING NOTES AND LEGEND

PROJECT NO: 21167 DRAWN BY: MJS

SCALE: AS NOTED ISSUE DATE: 10/01/2021

REVISIONS:

SHEET NUMBER:

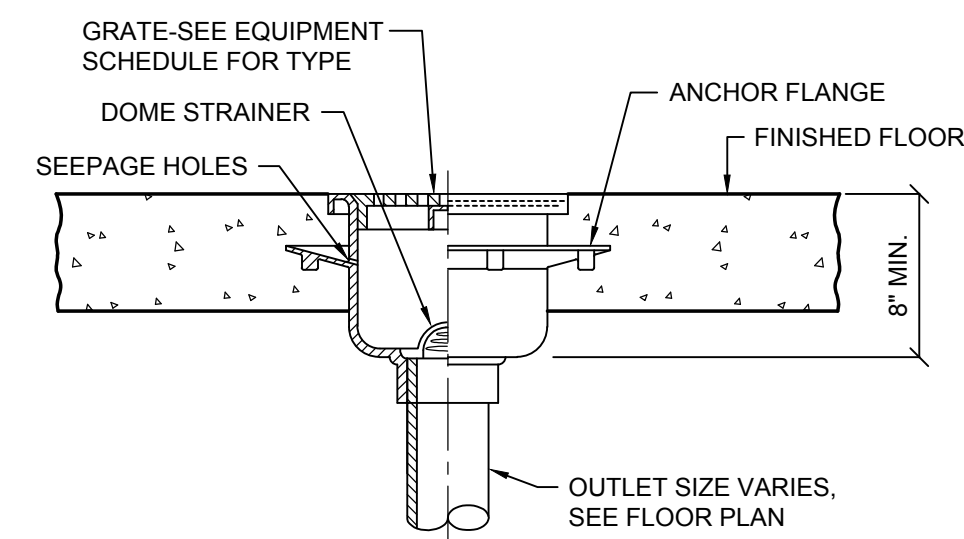
PO.1

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE

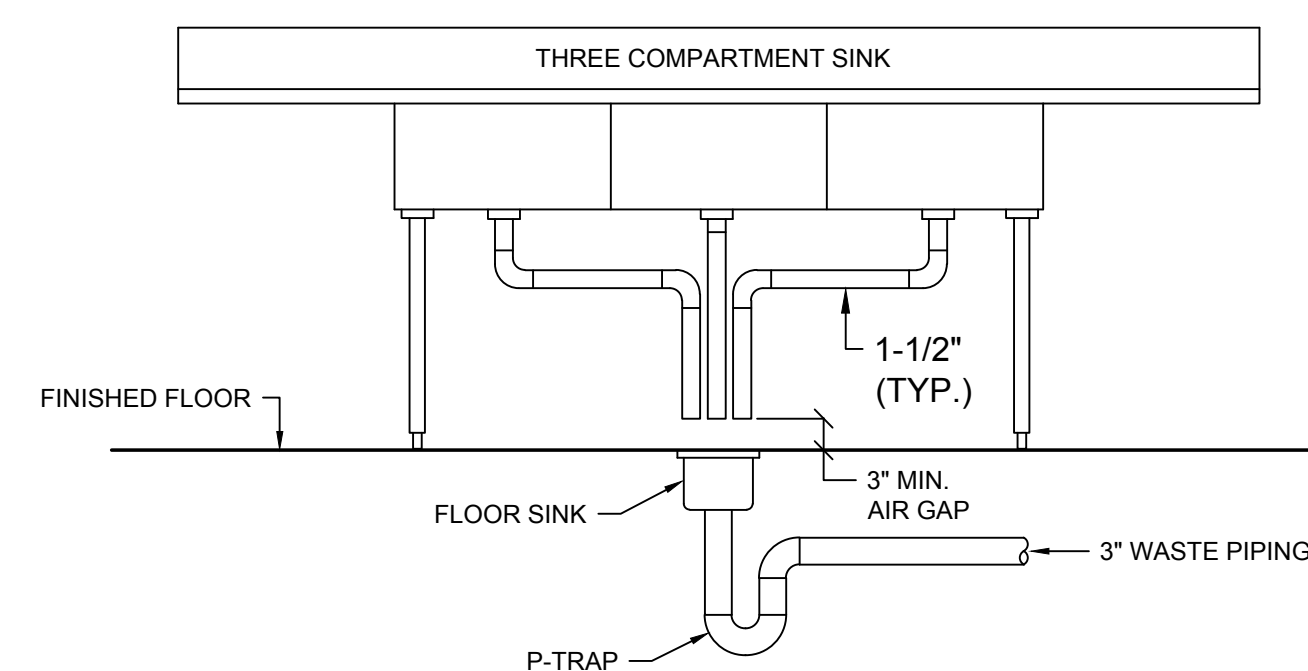
| MARK | FIXTURE | TYPE | MATERIAL | PIPE SIZES | | | | SPECIFICATIONS |
|------|--------------|-------------------------------------|----------------|------------|--------|------|------|---|
| | | | | SAN | VENT | CW | HW | |
| WC-1 | WATER CLOSET | FLOOR MOUNTED FLUSH TANK ADA HEIGHT | VITREOUS CHINA | 4" | 2" | 1/2" | - | FIXTURE: AMERICAN STANDARD CADET PRO RIGHT HEIGHT MODEL 215AA.104.020, WHITE, 1.28 GALLONS PER FLUSH, ELONGATED BOWL, 3" FLUSH VALVE, EVERCLEAN SURFACE. SUPPLY: MCGUIRE MODEL LF2166, CHROME PLATED BRASS ANGLE SUPPLY STOP WITH BRASS STEM, WHEEL HANDLE, 1/2" IPS INLET, 3/8" COMPRESSION OUTLET, 12" CHROME PLATED FLEXIBLE SUPPLY RISER. SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, ELONGATED, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL. |
| WC-2 | WATER CLOSET | FLOOR MOUNTED FLUSH TANK ADA HEIGHT | VITREOUS CHINA | 4" | 2" | 1/2" | - | FIXTURE: AMERICAN STANDARD CADET PRO RIGHT HEIGHT MODEL 215AA.105.020, WHITE, 1.28 GALLONS PER FLUSH, ELONGATED BOWL, 3" FLUSH VALVE, EVERCLEAN SURFACE, TRIP LEVER ON RIGHT SIDE. SUPPLY: MCGUIRE MODEL LF2166, CHROME PLATED BRASS ANGLE SUPPLY STOP WITH BRASS STEM, WHEEL HANDLE, 1/2" IPS INLET, 3/8" COMPRESSION OUTLET, 12" CHROME PLATED FLEXIBLE SUPPLY RISER. SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, ELONGATED, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL. |
| L-1 | LAVATORY | WALL HUNG ADA HEIGHT | VITREOUS CHINA | 1-1/2" | 1-1/2" | 1/2" | 1/2" | FIXTURE: AMERICAN STANDARD LUCERNE MODEL 0355.012.020, WHITE, 20" X 18", FRONT OVERFLOW, SELF-DRAINING DECK WITH SPLASH SHIELDS, FAUCET LEDGE WITH FAUCET HOLES ON 4" CENTERS. FAUCET: AMERICAN STANDARD MONTERREY MODEL 6114.116.002, POLISHED CHROME-PLATED CAST BRASS, SINGLE CONTROL CENTERSET, WITH METAL HANDLE, 0.5 GPM VANDAL-RESISTANT SPRAY, LESS POP-UP DRAIN. DRAIN: MCGUIRE MODEL 155A, POLISHED CHROME PLATED CAST BRASS OPEN GRID DRAIN, WITH 1-1/4" X 6" 17 GAUGE CHROME PLATED BRASS TAILPIECE. TRAP: MCGUIRE MODEL 8902C, 1-1/4" X 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS P-TRAP, WITH CLEANOUT PLUG. SUPPLIES: MCGUIRE MODEL LF2165, CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH BRASS STEMS, WHEEL HANDLES, 1/2" IPS INLETS, 3/8" COMPRESSION OUTLETS, 12" CHROME PLATED FLEXIBLE SUPPLY RISERS. CARRIER: ZURN Z1231 SERIES CONCEALED ARM SYSTEM FOR WALL LAVATORIES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #102 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, AND TWO ANGLE VALVE AND SUPPLY COVERS. |
| SH-1 | SHOWER | INDIVIDUAL STALL ADA COMPLIANT | - | - | - | 1/2" | 1/2" | FIXTURE: EXISTING SHOWER STALL TO REMAIN. VALVE: SYMMONS TEMPTROL COMMERCIAL MODEL C-96-500-B30-V-X, PRESSURE-BALANCING MIXING VALVE WITH LEVER HANDLE, INTEGRAL SERVICE STOPS, DIVERTER WITH INTEGRAL VOLUME CONTROL, WALL/HAND SHOWER WITH IN-LINE VACUUM BREAKER, FLEXIBLE 5' METAL HOSE, WALL CONNECTION AND FLANGE, 30" SLIDE BAR, CAST BRASS ADJUSTABLE SPRAY SHOWER HEAD WITH ARM AND FLANGE. |

PLUMBING EQUIPMENT SCHEDULE

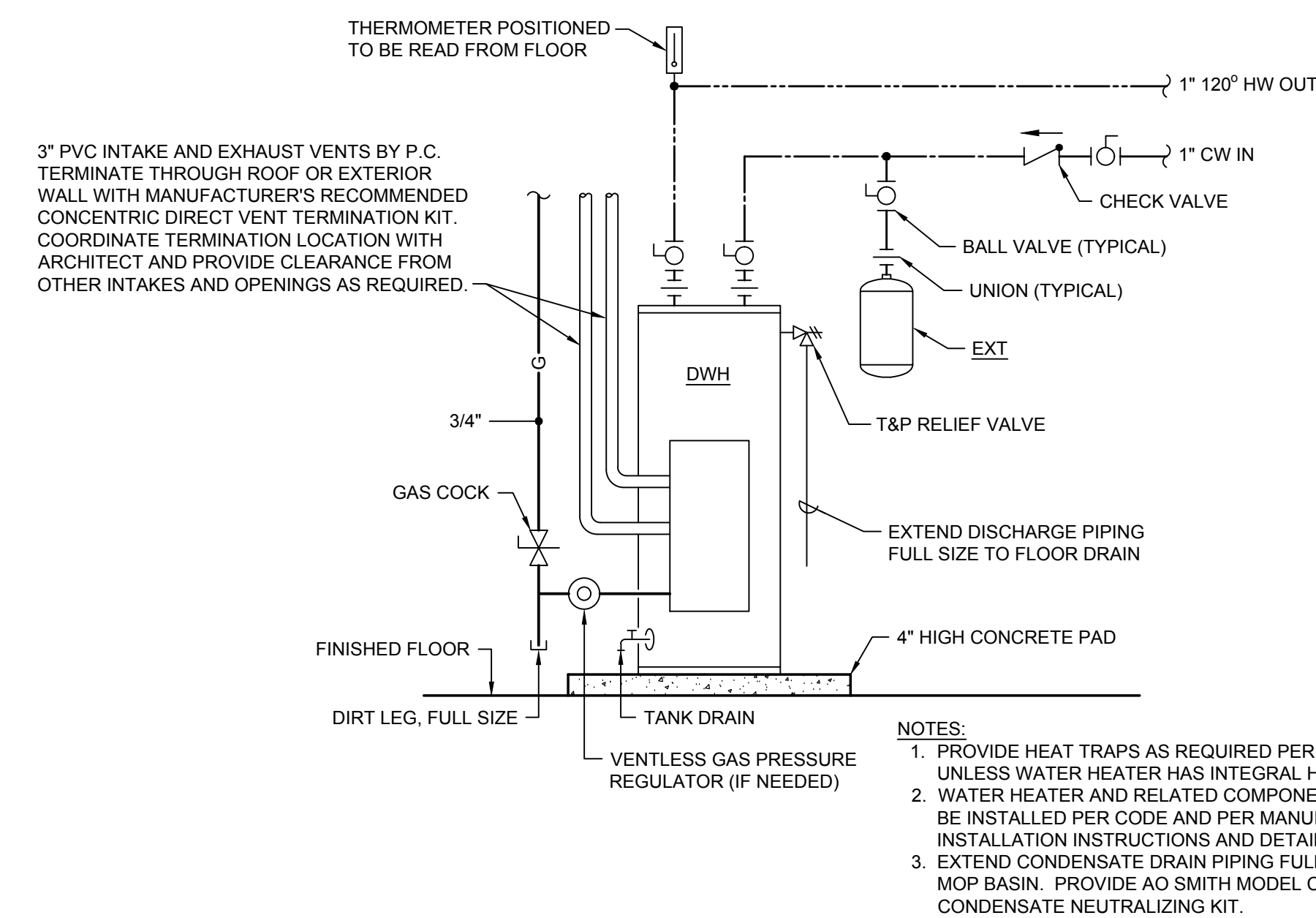
| MARK | EQUIPMENT | MANUFACTURER & MODEL NO. | SPECIFICATIONS |
|------|---------------------------|----------------------------------|--|
| FS | FLOOR SINK | ZURN ZN1901-KC-2 | 12"x12"x8" DEEP CAST IRON BODY WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, NICKEL BRONZE FRAME WITH 1/2 GRATE. |
| DWH | DOMESTIC WATER HEATER | AO SMITH MODEL BTX-100 | COMMERCIAL GAS-FIRED, CONDENSING, DIRECT VENT, 50 GALLON CAPACITY, 100 MBH INPUT, 145 GPH AT 80° F TEMPERATURE RISE, GLASS-LINED STEEL TANK, WITH FACTORY INSTALLED T&P RELIEF VALVE AND DRAIN VALVE. |
| TMV | THERMOSTATIC MIXING VALVE | SYMMONS MAXLINE 7-225-CK-MS | 0.5 GPM MINIMUM FLOW, THERMOSTATIC WATER TEMPERATURE LIMITING VALVE WITH INTEGRAL CHECKS, BRASS BODY, BRASS AND STAINLESS STEEL INTERNAL COMPONENTS, DUAL STAINLESS STEEL STRAINERS, VANDAL-RESISTANT CAP/TEMPERATURE ADJUSTMENT HANDLE, 1/2" MALE NPT CONNECTIONS. SET MIXING VALVE OUTLET TEMPERATURE TO 110° F. |
| EXT | EXPANSION TANK | AMTROL THERM-X-TROL MODEL ST-5-C | ASME CONSTRUCTION, STEEL TANK WITH FIXED DIAPHRAGM, STAINLESS STEEL SYSTEM CONNECTION, 55 PSI PRECHARGE, 150 PSI WORKING PRESSURE, 2.0 GALLONS. |



1 FLOOR SINK DETAIL
 P0.2 NOT TO SCALE



2 3 COMPARTMENT SINK DETAIL
 P0.2 NOT TO SCALE



3 DOMESTIC WATER HEATER DETAIL
 P0.2 NOT TO SCALE

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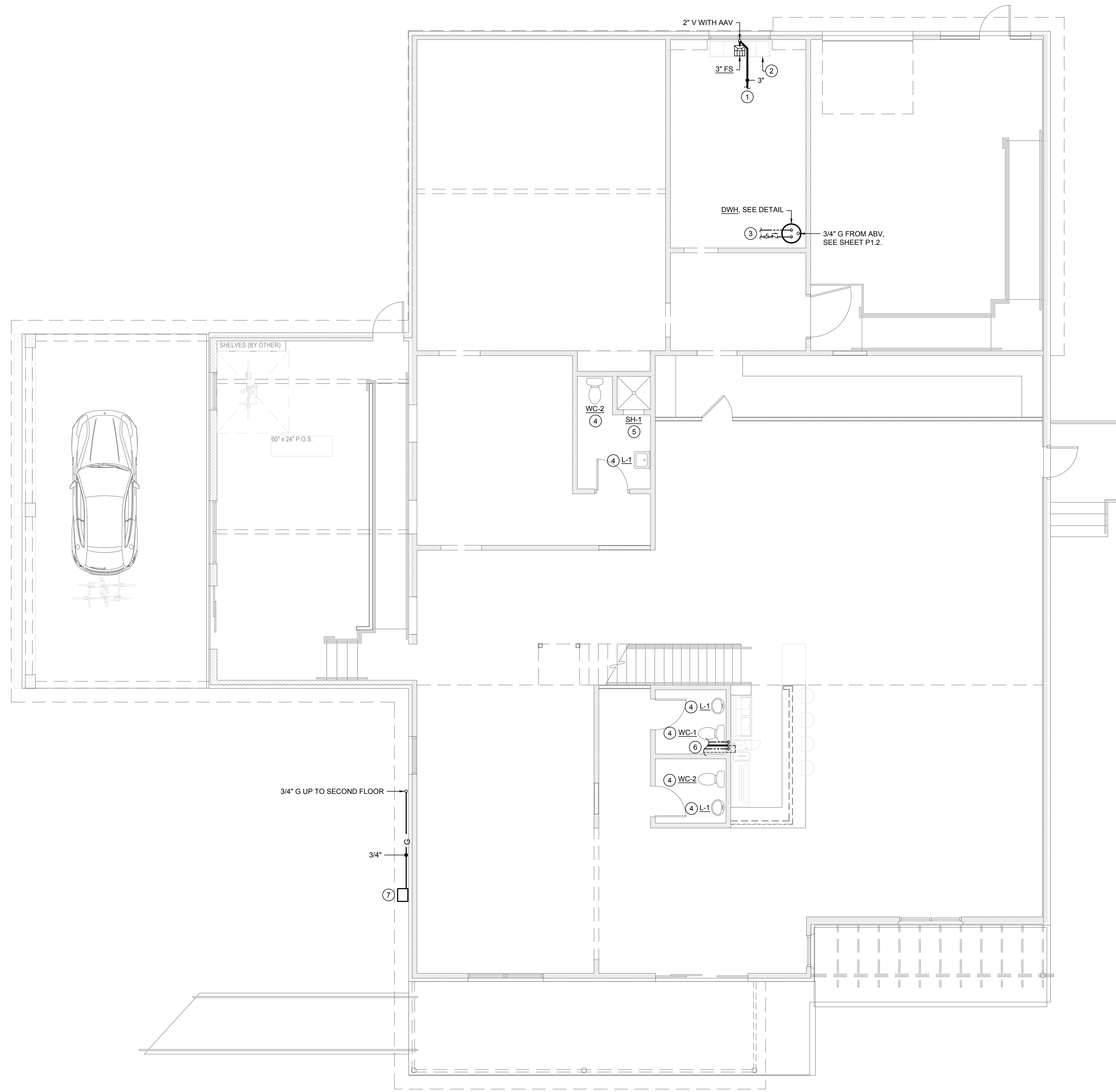
10/01/2021

SPIRITED CYCLIST
 16601 OLD STATESVILLE ROAD
 HUNTERSVILLE, NC 28078
 SHEET TITLE: PLUMBING SCHEDULES AND DETAILS

PROJECT NO: 21167
 DRAWN BY: MJS
 SCALE: AS NOTED
 ISSUE DATE: 10/01/2021

REVISIONS:

SHEET NUMBER:
P0.2



1 PLUMBING FIRST FLOOR PLAN
 SCALE: 3/16" = 1'-0"

KEYED NOTES THIS SHEET

- 1 EXTEND NEW 3" SAN WASTE PIPING AND CONNECT TO EXISTING SAN WASTE PIPING IN THIS AREA. VERIFY EXACT LOCATION, SIZE, INVERT, AND DIRECTION OF FLOW OF EXISTING PIPING IN FIELD.
- 2 NEW 3-COMPARTMENT SINK BY OTHERS. CONNECT TO EXISTING HW AND CW PIPING SERVING EXISTING SINK REMOVED FROM THIS AREA. EXTEND AND MODIFY EXISTING PIPING AS REQUIRED.
- 3 CONNECT NEW WATER HEATER PIPING TO EXISTING PIPING SERVING EXISTING WATER HEATER REMOVED FROM THIS AREA. VERIFY SIZE AND LOCATION OF EXISTING PIPING IN FIELD, EXTEND AND MODIFY EXISTING PIPING AS REQUIRED.
- 4 DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE AND REPLACE WITH NEW FIXTURE INDICATED. CONNECT TO EXISTING WATER, WASTE & VENT PIPING, EXTEND AND MODIFY EXISTING PIPING AS REQUIRED
- 5 EXISTING SHOWER STALL TO BE MODIFIED BY G.C. TO COMPLY WITH ADA REQUIREMENTS. DISCONNECT AND REMOVE EXISTING SHOWER VALVE AND REPLACE WITH NEW SHOWER VALVE INDICATED. CONNECT TO EXISTING WATER PIPING, EXTEND AND MODIFY EXISTING PIPING AS REQUIRED
- 6 EXTEND NEW 1/2" HW AND CW, AND NEW 2" W AND 1-1/2" V FROM NEW HAND SINK AND CONNECT TO EXISTING WATER, WASTE AND VENT PIPING OF EQUAL OR GREATER SIZE IN THIS AREA. VERIFY EXACT LOCATION, SIZE, INVERT, AND DIRECTION OF FLOW OF EXISTING PIPING IN FIELD.
- 7 COORDINATE WITH LOCAL GAS COMPANY TO PROVIDE NEW METER ASSEMBLY AT EXISTING SERVICE LOCATION. REFER TO NATURAL GAS PIPING SECTION OF GENERAL NOTES ON SHEET P0.1 FOR SYSTEM SIZING CRITERIA.

GENERAL NOTES THIS SHEET

1. SEE FIXTURE SCHEDULE ON SHEET P0.2 FOR SIZES OF DOMESTIC WATER AND SANITARY WASTE AND VENT CONNECTIONS TO INDIVIDUAL FIXTURES.
2. COORDINATE ALL CONNECTION REQUIREMENTS FOR BAR EQUIPMENT WITH EQUIPMENT SUPPLIER. DOMESTIC WATER CONNECTIONS TO INDIVIDUAL BAR SINKS SHALL BE 1/2", UNLESS OTHERWISE NOTED.
3. MINIMUM SIZE FOR SANITARY WASTE AND VENT PIPING BELOW GROUND SHALL BE 2".
4. ALL DOMESTIC WATER PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED.
5. ALL SANITARY VENT PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED; ALL SANITARY WASTE PIPING SHOWN ON THIS SHEET SHALL BE RUN BELOW FLOORS, UNLESS OTHERWISE NOTED.
6. THE PLUMBING CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS INCLUDING DIRECTION OF FLOW, INVERTS, AND TIE-IN LOCATIONS PRIOR TO ROUTING ANY PIPING. SAWCUT EXISTING SLAB, WALL, OR CEILING CONSTRUCTION AS REQUIRED. AREAS TO BE SAWCUT SHALL BE APPROVED BY ARCHITECT PRIOR TO CUTTING. ALL SAWCUT AND ALTERED SURFACES SHALL BE FILLED, PATCHED, PAINTED, AND REPAIRED TO MATCH ADJACENT SURFACES.



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 HUNTERSVILLE, NC 28078

SHEET TITLE:
PLUMBING FIRST FLOOR PLAN

PROJECT NO: 21167 DRAWN BY: MJS

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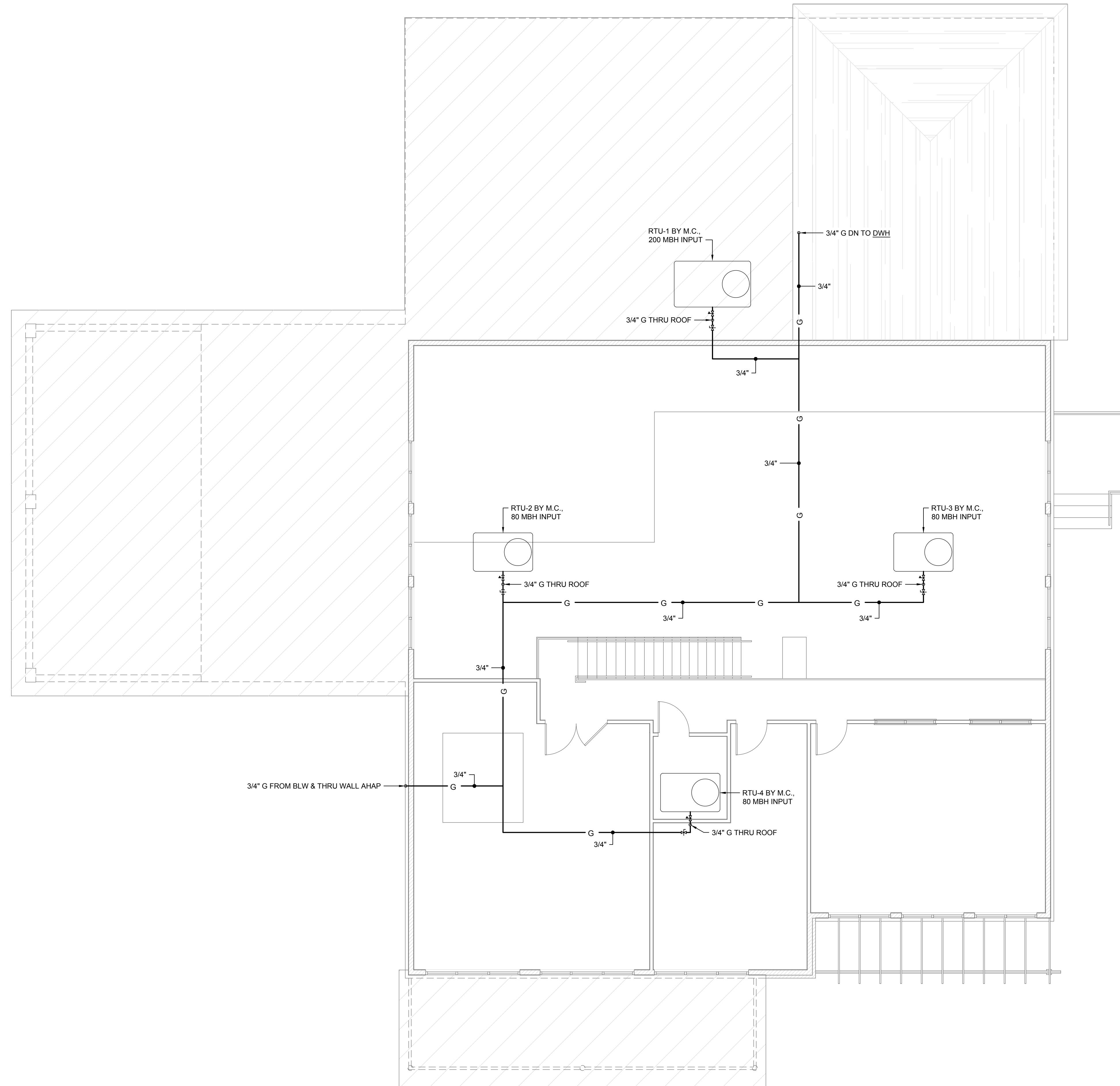
P1.1



WAVE ENGINEERING
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 NC CORP. LICENSE #P-1621

— PRELIMINARY —
 NOT FOR CONSTRUCTION
 OR PRICING

10/01/2021



1 PLUMBING SECOND FLOOR PLAN
 P1.2 SCALE: 3/16" = 1'-0"

GENERAL NOTES THIS SHEET

- ALL NATURAL GAS PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS, AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED.

SPIRITED CYCLIST

16601 OLD STATESVILLE ROAD
 HUNTERVILLE, NC 28078

SHEET TITLE:
PLUMBING SECOND FLOOR PLAN

| | |
|----------------------|---------------------------|
| PROJECT NO: 21167 | DRAWN BY: MJS |
| SCALE: AS NOTED | ISSUE DATE: 10/01/2021 |

REVISIONS:

SHEET NUMBER:

P1.2