DIVISION 15A - PLUMBING

- 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following: 1. Plumbing fixtures, water heaters, and any other
- equipment necessary.
- 2. Cold and hot water piping and insulation. 3. DWV piping.
- 4. Connection of all equipment; drain, vent,
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply.
- 1. The National Electrical Code.
- 2. 2018 N.C. Building Code: Plumbing, and all applicable category codes. 3. American Society of Sanitary Engineering Standard 1010. 4. All local codes and ordinances
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications
- require, the codes shall govern. D. The Plumbing Contractor shall be licensed in the State of
- North Carolina and have all local licenses required for the work. E. Obtain all permits, licenses, inspections, etc., required for the work, and pay for the same.
- 1.2 INTENT
- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.
- 1.3 COORDINATION
- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
- C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. Fixtures with flood level rims above upstream manhole shall not discharge thru by valve. Notify engineer of backwater valve requirement, any issue prior to bid. 1.4 SHOP DRAWINGS C. Where water pipes connect to exposed chrome plated trim, use
- A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly

PART 2 - PRODUCTS

- 2.1 FIXTURES A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes
- supplying the fixtures must also be held rigidly in place. B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.

GENERAL NOTES

LOCAL AND OTHER APPLICABLE CODES.

BROUGHT TO THE ENGINEERS ATTENTION.

DISINFECTED PRIOR TO PLACING IN SERVICE.

FIXTURE RUNS AS REQUIRED BY CODE.

PRIOR TO ORDERING ANY FIXTURES.

DWV PIPING THROUGH FIRE BARRIERS.

- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.
- E. Provide trap primers for all floor drains in areas not served by hose bibbs.

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL

2. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING

PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES

4. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE

5. THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION

PC SHALL PROVIDE ALL MISC. ITEMS NEEDED FOR A COMPLETE SYSTEM REGARDLESS IF NOTED

REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE

PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED

3. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO

ON THE DRAWINGS OR NOT. FOR DIMENSIONS REFER TO ARCHITECTURAL PLANS.

6. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY

8. PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER

11. PROVIDE/VERIFY HIGH TEMPERATURE HOT WATER (HTHW) AT 140 DEGREES F (MAX). PROVIDE/VERIFY MEDIUM TEMPERATURE HOT WATER (MTHW) AT 110 DEGREES F (MAX),

VERIFY MTHW FROM ALL LAVATORY FAUCETS, PROVIDE THERMOSTATIC MIXING

TMV WHERE REQUIRED, AND PER CODE WHETHER OR NOT SHOWN ON PLANS.

PROVIDE/VERIFY LOW TEMPERATURE HOT WATER (LTHW) AT 85 DEGREES F (MAX),

VALVES (TMV) AS REQUIRED. VERIFY LTHW FROM EYEWASH (TMV INCLUDED W/UNIT).

12. PROVIDE CLEANOUTS AS REQUIRED BY CODE, NOT MORE THAN 100 FEET FOR 4" DRAIN.

PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE (TMV) WHERE REQUIRED, ASSE 1017

13. PROPERLY SEAL ALL PIPING PENETRATIONS PER APPLICABLE PENETRATION SYSTEM DETAIL (THIS

SHEET) THROUGH FIRE BARRIER WALLS/FLOORS/CEILINGS. PROVIDE CAST IRON PIPING FOR ALL

SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.

7. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR 2 - HOURS AT 150 PSIG BEFORE

COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE

9. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.

10. PROVIDE CUT SHEETS ON ALL PLUMBING FIXTURES FOR ARCHITECT AND OWNER APPROVAL

CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).

B. Space pipe hangers 8'-0" on center for one inch and smaller pipe, 4'-0" on center for 1-1/4 inch and larger pipe. Provide A. Drain waste: All waste piping shall be Schedule 40 PVC-DWV with the

penetrations of rated walls/floors/ceilings. Review Arch. and Mech. drawings. Use ABS or cast iron piping for drainage of fluid temperature greater C. Pipe hangers for insulated lines shall have suitable saddles than 140 deg. F for a minimum distance of 10'-0". to protect insulation.

B. Hot and cold water piping above grade: Type "L" copper w/solder joints 3.4 INSULATION (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22)

following exceptions: Use cast iron piping in all return air plenums and

PEX piping with copper fittings may be used with owner/tenant approval.

Hangers: Use pipe hangers where required on 8-foot centers with

Unions: Provide unions where indicated on drawings, in long

convenient disassembly. Provide dielectric unions when

runs of piping (except drainage) and at equipment to provide

connecting copper tubing to equipment and piping made of

A. Hex plugs in rough areas: Recessed plugs with cover plates in

Provide shock arresters as required by codes, manufacturer's

recommendations and accepted industry standards for qualify

construction. Provide for all quick closing valves

A. This contract includes complete connection of cold water, hot

water, drainage, and vent piping as required. All fittings,

B. The connection to water closets shall be made watertight with

gasket and wax ring. Floor flanges shall be caulked into

position. Plastic caps shall be provided on the tie down

bolts, and shall be secured in place by screwing down on

A. All valves and accessories shall be insulated so that they can be

Provide access doors as required to access valves, etc.

A. Coordinate routing of piping with others, line up work true

requirements or manufacturer's requirements.

properly serviced. In no case shall the Plumbing Contractor install

equipment or other components in situations that do not meet code

valves, accessories, cutoffs, drains, etc., required to

complete such connections shall be included.

saddles to avoid crushing insulation.

Solder: 95/5. Lead free.

ferrous materials.

exposed locations.

2.4 SHOCK ARRESTERS

PART 3 - EXECUTION

threaded brass washers.

3.2 SERVICE ACCESS

3.3 ROUTING OF PIPING

proper chrome plated escutcheons.

3.1 CONNECTIONS

2.3 CLEANOUTS

All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R-6.5 min.) in unconditioned areas. See NCSBC-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. C404.4 of the NCSBC 2018 Energy Conservation Code. B. Provide pre-fabricated insulation kits for all sink and lavatory

- C. Cold water piping below grade: Type "K" copper (ASTM-88A) soft drawn. exposed drain and supply piping.
 - 3.5 INSPECTIONS AND TESTS

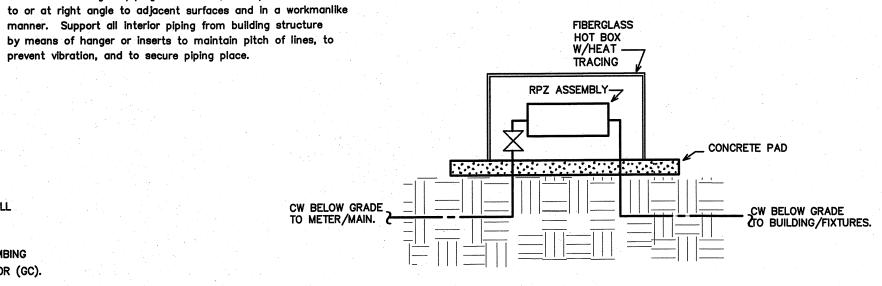
expansion loops as required.

- Before being concealed, all water, soil and vent piping shall be tested to determine if they are water- and air-tight.
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.

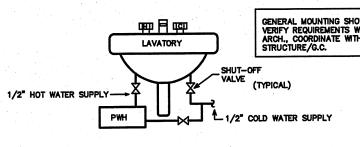
3.6 STERILIZATION OF PIPING

- Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.
- 3.7 SERVICE PRESSURE
- A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC-Plumbing Sect. 604.8.
- 3.8 DRAINDOWN
- A. Contractor to provide for complete plumbing system drain down
- A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.

- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner. This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

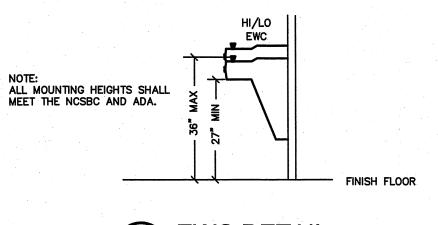


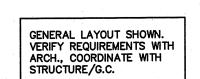
RPZ/HOT BOX DETAIL

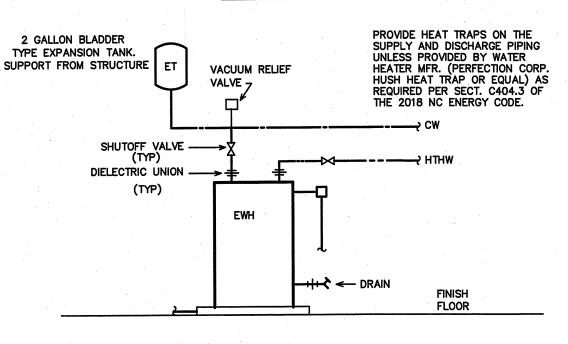


1) INSTALL WATER HEATER BELOW LAV, AND/OR CONCEALED IN CABINETRY. PC TO PROVIDE AND INSTALL WATER HEATER. EC TO WIRE.) ALL WORK MUST BE DONE IN NEAT MANNER TO BE APPROVED











System No. W-L-1001

March 28, 2003

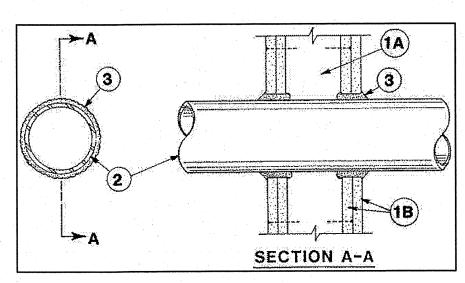
(Formerly System No. 147)

F Ratings -- 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings -- 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient - less than 1 CFM/sq ft

L Rating At 400 F - less than 1 CFM/sq ft



1. Wall Assembly -- The 1.2.3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL FIre Resistance Directory and shall include the following construction features:

> A. Studs -- Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in, OC with nom 2 by 4 in, lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in.

B. Gypsum Board* -- Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26

2. Through-Penetrant-- One metalic pipe, conduit or tubing installed either concentrically or eccentrically with the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

> A. Steel Pipe -- Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe -- Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit -- Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing.

D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe -- Nom 6 in. diam (or smaller) Regular (or heavier) copper tubing.

F. through Penetrating Product* -- Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

TITLEFLEX CORP

A BUNDY CO

3. Nom 1 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

3. Fill, Void or Cavity Material* -- Caulk -- Min 5/8, 1-1/4,1-7/8 and 2-1/2 in. thickness for caulk for 1,2,3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. dia bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In	F RATING Hr	T RATING Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0
	or Conduit	or Conduit Diam In RATING Hr 1 1 or 2 1 3 or 4 4 1 or 2 6 3 or 4

+When copper pipe is used, T Rating is 0 h.

3M COMPANY -- CP 25WB+

*Bearing the UL Classification Mark

PENETRATION DETAIL

SYMBOL LEGEND - PLUMBING

DESCRIPTION (U.O.N.) WASTE PIPING (W) VENT PIPING (V) COLD WATER PIPING (CW) HOT WATER PIPING (HW) HIGH TEMPERATURE HW PIPING (HTHW) 120 DEG. F -----HTHW---------- MTHW-----MEDIUM TEMPERATURE HW PIPING (MTHW) 110 DEG. F LOW TEMPERATURE HW PIPING (LTHW) 85 DEG. F _____LTHW _____ ——O COFF CLEANOUT FINISH FLOOR **∓**wco/нco WALL/HORIZONTAL CLEANOUT CLEANOUT FINISH GRADE DIELECTRIC UNION SHUT-OFF VALVE VENT THRU ROOF (VTR) FREEZE PROOF, HOSE BIBB (FPHB/HB) ABOVE FINISHED FLOOR A.F.F.

> 1 HOUR FIRE BARRIER 2 HOUR FIRE BARRIER ____

UNLESS OTHERWISE NOTED

LOAD SUMMARY - PLUMBING

WATER DEMAND (GPM)

FIXTURE SCHEDULE - PLUMBING

U.O.N.

EW * EYEWASH

BRADLEY BARRIER-FREE WALL MOUNT EYEWASH S19-220ABF. COORDINATE EXACT MODEL/MOUNTING LOCATION WITH OWNER. PROVIDE BRADLEY NAVIGATOR EMERGENCY S19-2000 EFX8 MIXING VALVE. INSTALL IN ACCESSIBLE LOCATION. SET OUTFLOW TO SPECIFIED LTHW TEMPERATURE (85 DEG. F).

EWC * HIGH/LOW ELECTRIC WATER COOLER HALSEY TAYLOR DUAL LEVEL ELECTRIC WATER COOLER. MODEL # HAC8FSBL-Q ADA COMPLIANT. PIPE TO SINGLE DRAIN AND SUPPLY LINE.

EWH * ELECTRIC WATER HEATER

A.O. SMITH MODEL DEL-30, 30 GALLON, 4,500 WATT, 18 GPH RECOVERY AT 100 DEGREE TEMPERATURE RISE. 3/4" INLET AND OUTLET, 208 V, 1 PH. PROVIDE DRAIN PAN, EXPANSION TANK AND PRESSURE RELIEF VALVE.

HB * WALL HOSE BIBB WOODFORD MODEL #24 ANTI-SIPHON HOSE BIBB W/TEE KEY. COORDINATE MOUNTING

W/TENANT. PROVIDE STEM LOCK SL-24 IF REQUIRED. FPHB * FREEZE PROOF HOSE BIBB WOODFORD MODEL #19, FREEZE PROOF HOSE BIBB WITH BACKFLOW PREVENTER. COORDINATE MOUNTING W/TENANT. PROVIDE TEE KEY OR LOCK SL-17 IF REQUIRED.

VERIFY MOUNTING LOCATION, COORDINATE STEM LENGTH PER WALL THICKNESS. IWH * INSTANTANEOUS (POINT OF USE) ELECTRIC WATER HEATER EEMAX TANKLESS WATER HEATER #EX3512T-ML, 120 V, 3,500 W, 29.2 A. 48 DEGREE

TEMPERATURE RISE AT 0.5 GPM. PROVIDE FLEX CONNECTOR BRAIDED STAINLESS STEEL.

ML MODEL IS FACTORY PRESET TO 110 DEG. F MAX. INSTALL UNIT BELOW SINK/LAV. LAVATORY (WALL MOUNT)

KOHLER HUDSON LAVATORY, K-2861, VITREOUS CHINA, 4" CENTERS, ADA COMPLIANT. PROVIDE DELTA MODEL 523LF-HGMHDF FAUCET, 0.5 GPM MAX WITH GRID STRAINER. PROVIDE P-TRAP AND SHUT-OFF VALVES.

RPZ * REDUCED PRESSURE BACKFLOW PREVENTER WTH FIBERGLASS ENCLOSURE WATTS MODEL #LF009M3QT 1" REDUCED PRESSURE BACKFLOW PREVENTER, 'LEAD FREE' CONSTRUCTION. PROVIDE WATTSBOX WB-1 INSULATED ENCLOSURE WITH 30W HEATER ON CONCRETE PAD. INSTALL PAD PER UNIT REQUIREMENTS, COORDINATE PAD, HEATER CIRCUITING W/G.C.

S1 * COUNTER SINK

ELKAY LR2521 SINGLE BASIN STAINLESS STEEL SINK (MODEL LRAD2521 IF ADA COMPLIANCE REQUIRED), 18 GA., SELF-RIMMING, FURNISHED WITH THREE FAUCET HOLES AND CENTER DRAIN. PROVIDE ELKAY COMMERCIAL FAUCET MODEL LK810AT08L2 WITH TWO LEVER HANDLES, CHROME PLATED BRASS P-TRAP AND SHUT-OFF VALVES. COORDINATE EXACT UNIT WITH OWNER AND GENERAL CONTRACTOR. COORDINATE SIZE WITH CABINETRY PRIOR TO ORDERING.

US * UTILITY SINK

FLORESTONE MODEL FM-1, FLOOR MOUNTED SINK TO COME WITH 4 HEAVY DUTY MOLDED LEGS, WITH 1 1/2" DRAIN OPENING, 20 GALLON CAPACITY. PROVIDE FAUCET, P-TRAP, AND SHUT-OFF VALVES.

VB * ICE MAKER VALVE BOX

OATEY VALVE BOX WITH 3/8" BRONZE SHUT-OFF VALVE. FLUSH TO WALL.

WC * WATER CLOSET (FLUSH TANK)

KOHLER HIGHLINE WATER CLOSET, K-3979, ADA COMPLIANT 1.6 GPF. PROVIDE WITH K-4731 ADA SEAT, K-7637 SUPPLY AND STOP, WAX SEAL, CLOSET BOLT KIT. PROVIDE MODEL WITH FLUSH CONTROL ON SIDE OPPOSITE GRAB BAR. USE KOHLER WELLWORTH #K-3978 WHERE ADA COMPLIANCE MODEL NOT REQUIRED.

YH * FREEZE PROOF YARD HYDRANT WOODFORD MODEL #Y34, FREEZELESS YARD HYDRANT WITH 3/4" INLET. VERIFY BURY DEPTH REQUIREMENT, COORDINATE LOCATION WITH OWNER/SITE. VERIFY FROST LINE DEPTH FOR DRAIN HOLE DEPTH/INSTALL REQUIREMENT.

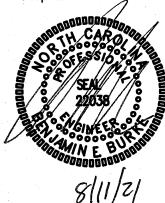
* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BY TENANT AND ARCHITECT PRIOR TO ORDERING. ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE TENANT AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS



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PROJECT TITLE POWERMASTER ELECTRIC

311 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA

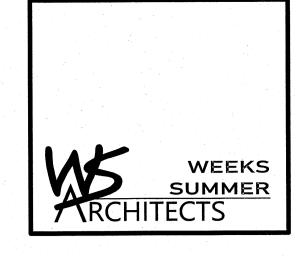
PROJECT NO. 2019

DRAWING TITLE PLUMBING SPECIFICATIONS

PLOT DATE

8/6/2021

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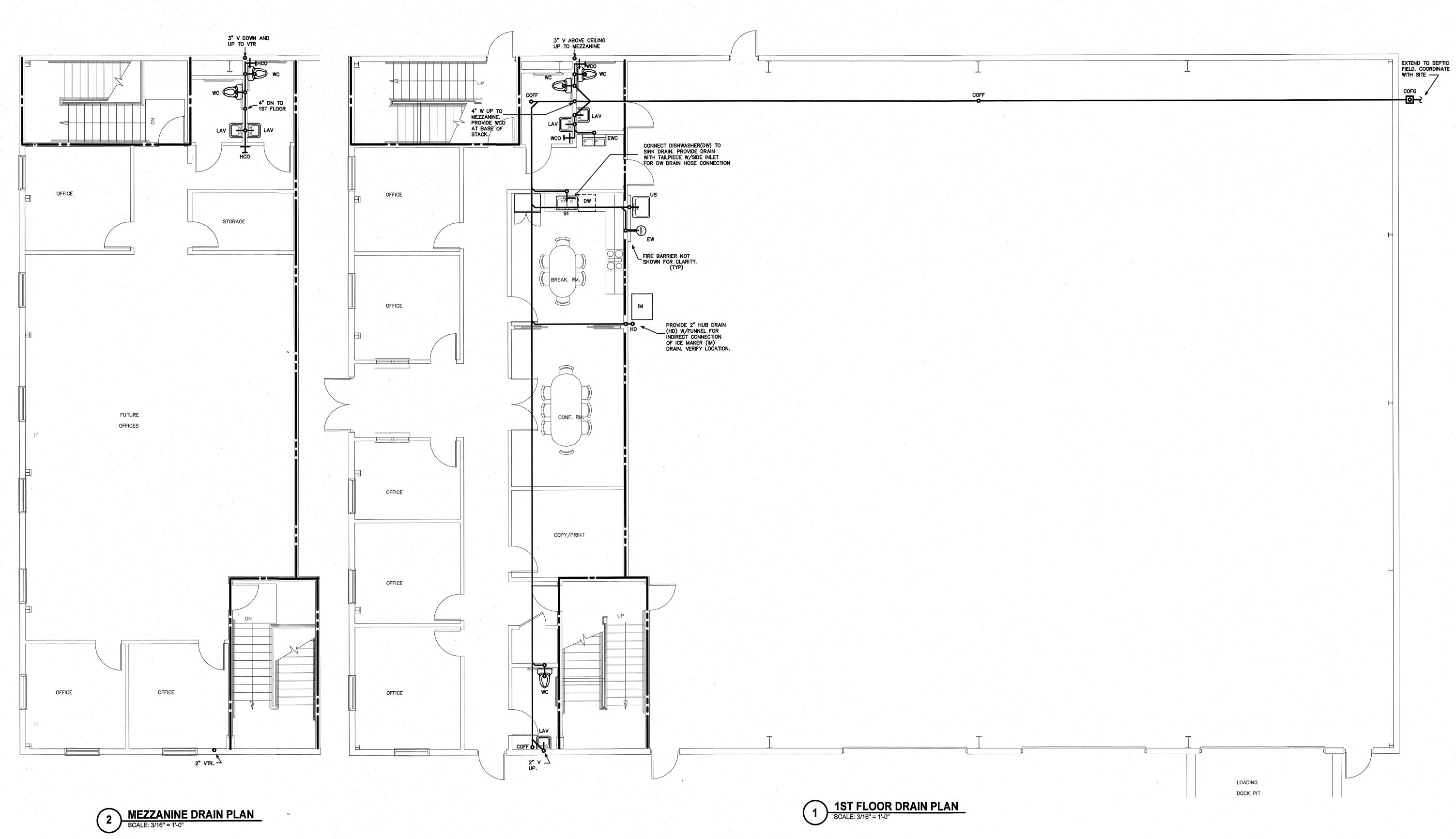
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POWERMASTER
ELECTRIC 311 JARCO DRIVE FUQUAY—VARINA, NORTH CAROLINA PROJECT NO. 2019 DRAWING TITLE

DWV PLAN

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8/6/2021



REY NOTE FOR SHEET P3

PROVIDE TMV AT LAVATORY FOR CW
AND 110 DEG. F (MAX) LTHW TO FAUCET.
LOCATE TMV (NOT SHOWN) IN PROPER
MAINTENANCE ACCESSIBLE AREA BELOW
FIXTURE, OR AS REQUIRED.

DROP CW TO LAV, EXTEND TO IWH.
PROVIDE LTHW (NOT SHOWN) TO LAV
FROM IWH. VERIFY IWH LOCATION.

NOTE:
VERIFY QUANTITY AND
MOUNTING LOCATION OF
HB, FPHB WITH OWNER,
ARCH. VERIFY ROUTING OF
OF ALL SUPPLY LINES
(TYP)

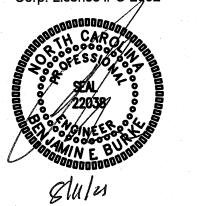


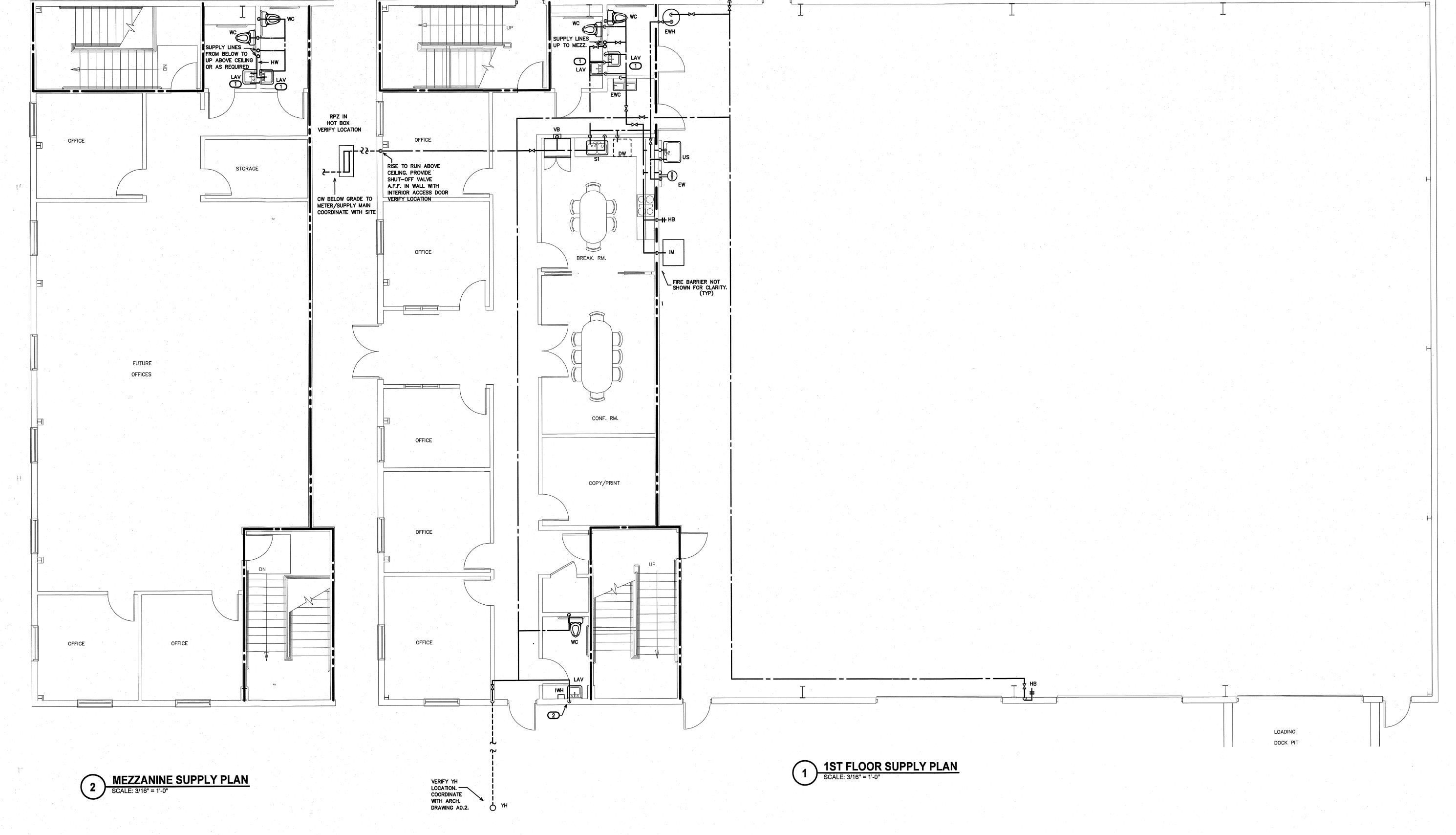
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PROJECT TITLE
POWERMASTER
ELECTRIC

311 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO.
2019
DRAWING TITLE
WATER PLAN

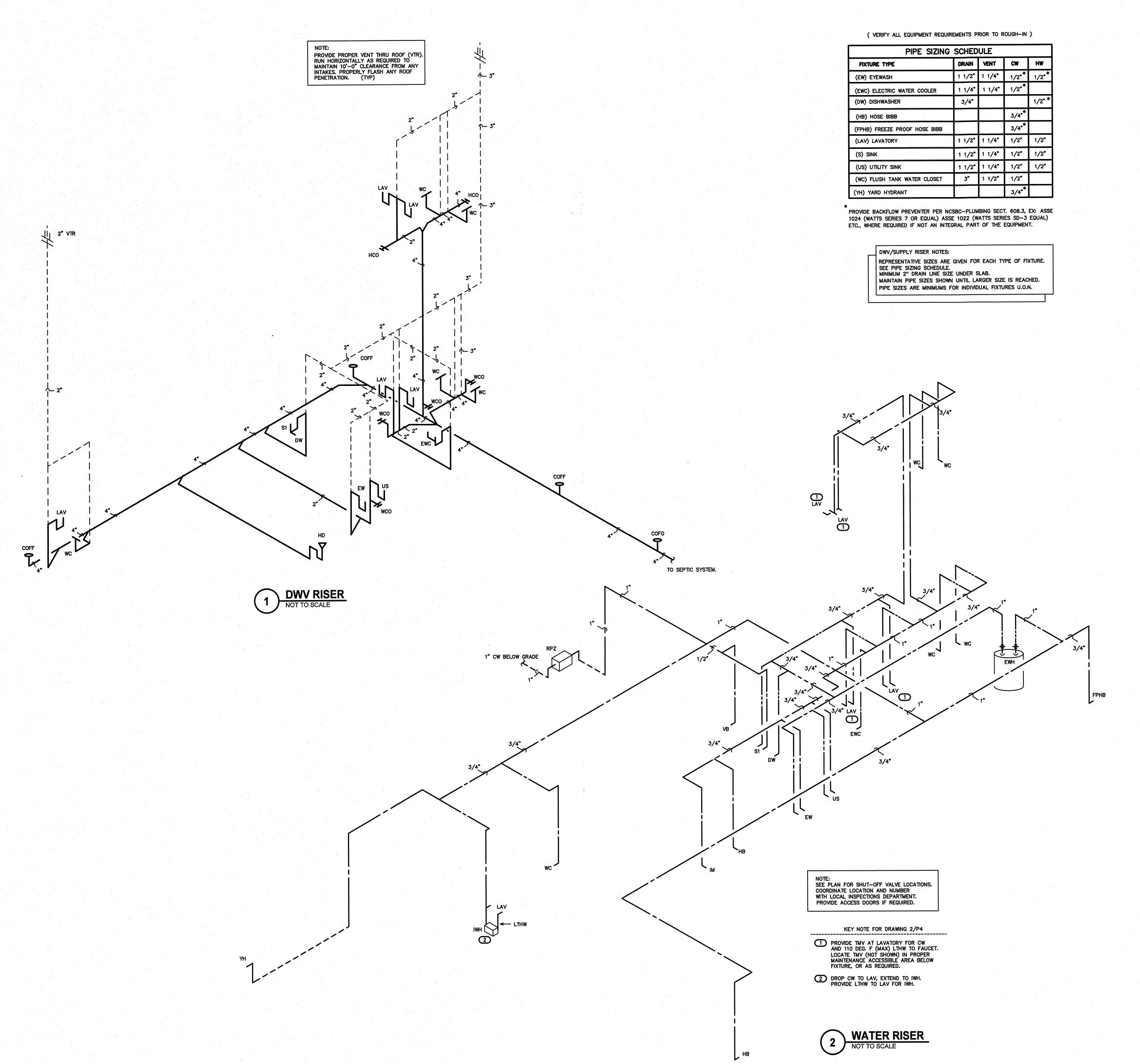
P3

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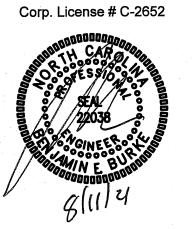


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PROJECT TITLE
POWERMASTER
ELECTRIC

311 JARCO DRIVE FUQUAY—VARINA, NORTH CAROLINA

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