

NOTES AND SPECIFICATIONS

1. GENERAL
 - 1.1 DESCRIPTION
 - A. Furnish all labor, materials, tools, and equipment and services necessary to complete the work shown.
 - 1.2 RELATED SECTION
 - A. General Conditions to Mechanical and Electrical.
 - 1.3 EXCAVATION, SHORING AND BACKFILL
 - A. Excavation shall be performed to install piping and equipment indicated or specified.
 - B. Water and sludge shall be removed from trenches before laying piping.
 - C. Shoring shall be provided in accordance with safety standards.
 - D. Backfill shall be mechanically tamped in 6-inch layers, and surplus earth shall be removed.
 - E. Walls or footings shall not be undermined when trenches are parallel with footings.
 - 1.4 PROTECTION
 - A. All equipment and appurtenances shall be protected from debris and damage before and during construction, and during and after installation.
 - 1.5 SCOPE OF WORK
 - A. Sanitary and Storm Sewers shall be installed completed and connected to system where indicated on drawings.
 - B. Potable Water shall be installed completed and connected to main as shown.
2. PRODUCTS
 - 2.1 MATERIALS
 - A. Sanitary, Storm and Vents
 1. Interior
 - a. Below Grade (Soil, Waste, Storm and Vent) shall be service weight cast iron soil pipe and fittings (CS-188).
 - b. Above Grade (Soil, Waste, Storm and Vent)
 - 1) Exposed shall be D.W.V. soldered joints. P traps shall be cast brass, chrome plated, with cleanout plugs.
 - B. Potable Water
 1. Interior shall be hard drawn copper water tube (ASTM B88) with soldered joint fittings (ASA A40.3) with Type "K" used below grade and Type "L" above grade. Supply piping from floor or walls to fixtures shall BE BRASS PIPE 85-15% composition chrome plated.
 2. Water piping under slab on grade floors shall be single length of copper type "K" tubing with no joints or fittings.

- C. Unions and Couplings
 1. Dielectric joints shall be an approved type, installed at all joints between copper and ferrous piping.
 2. All couplings shall be same material as connecting piping.
- E. Insulation
 1. All domestic water piping shall be insulated as follows:
 - a. Exposed: Cold water shall be Owens-Corning 1/2-INCH 25-ASJ. Hot water shall be Owens-Corning 1-inch 25-ASJ.
 - b. Concealed: Shall be Owens-Corning 1/2-inch WFRJ.
 - c. Fittings shall be insulated with wrapped or fiberglass, when wrapped with glass mesh fabric tape embedded in "insulfofo". Coverings shall finish flush with pipe covering. Exposed fittings shall have an extra 8 oz. or two layers of 4 oz. canvas jacket pasted on with Miracle No. 127 adhesive. Contractor may, at his option, use Zeston, pre-molded fiberglass PVC insulation. All horizontal rain leaders shall be insulated with 1/2-inch OWENS-CORNING FIBERGLAS same as cold water.
 2. Storm
 - a. All horizontal storm pipe shall be insulated with Owens-Corning 1/2-inch WFRJ.
- 2.2 PLUMBING FIXTURES AND EQUIPMENT
 - A. Plumbing Fixtures: shall be as specified on drawings.
3. EXECUTION
 - 3.1 INSTALLATION OF PIPING
 - A. General- Install piping without stress or strain where shown, piping run parallel to ceiling and/or walls in a neat manner, providing for expansion, contraction and structural settlement. Pipe sizes are nominal size. "Piping" means pipe, fittings, nipples, valves appurtenances. Install piping as soon as excavation has been finished so trenches will be open as short a time as possible.
 1. Check all peculiarities and limitations of space available for installation of materials under this Contract. Valves and appurtenances necessary for operation and maintenance must be easily accessible.
 2. Exact locations and elevations of existing services shall be established at points of connection by field measurements before construction is started. If elevations are such that new services cannot be connected, notify Architect.
 3. Piping shall be arranged to clear ducts, conduits, passages or doorways, etc., with sufficient head room maintained.
 4. Pipe reducing fittings shall be used for changing pipe sizes.
 5. Pipe fittings shall be thoroughly inspected for defects in workmanship.
 6. Changes of run in waste, soil, vent and drain lines shall be made with "Y" branches, sanitary tees, and 1/8 or 1/16 bends.

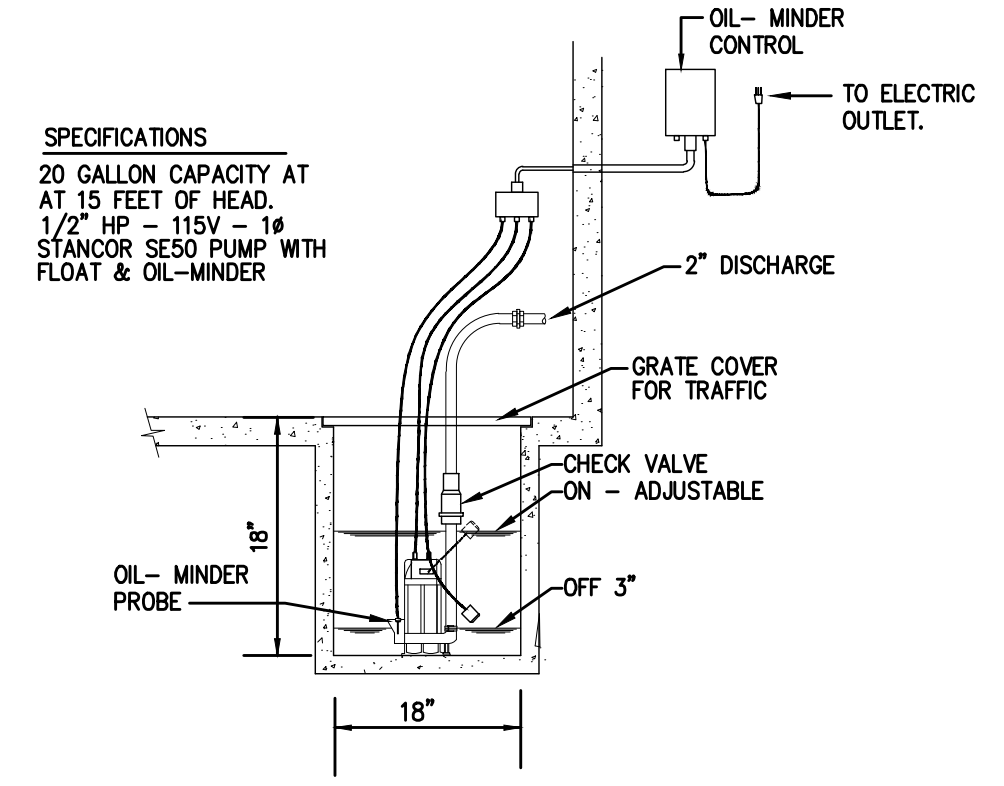
- B. Grade of Piping
 1. Sanitary and Storm Sewers shall be run not less than 1/4-inch per foot, or as shown on the plans.
 2. Vents shall be free from drops and sags, and grade to drain condensate back to soil, waste or vent stack by gravity.
 3. Water piping shall have uniform pitch to low points.
- C. Joints
 1. Brass pipe joints shall be made with best quality pure red lead and linned oil. Threaded piping shall be reamed and pipe joint compound applied on male threads only.
 2. Cast iron sewer pipe joints shall be made with picked oakum gaskets and molten lead made impermeable to gas by bedding solidly to oakum caulk. Oakum for coupled joints shall be 3/4-inch maximum depth in hub filled in one pouring with molten lead using 12 oz. of lead to each one inch pipe diameter with caulking to finish flush with the case, presenting a smooth appearance. Lead must be approved shop pig lead. Mechanical joints, when in accordance with local requirements, are allowed.
 3. Solder Joints:
 - a. For potable water piping shall be lead-free 95-5 tin-antimony solder lead free.
 - b. For waste vent piping shall be as for potable water. No solder containing lead to be allowed on job site.
- D. Couplings and unions shall connect piping to fixtures and equipment so they may be replaced without injury to pipe. Place adjacent to valves. Long screws are not permitted. Right and left couplings shall be used where unions are required on concealed pipes only.
- E. Valves shall be installed where shown and required for control of systems.
 1. Shutoff valves shall be provided for water connections to fixtures, equipment and all branches from main. Provide individual shut-off valves for all wall hydrants.
 2. Drain valves shall be provided at all low points of potable water system. Install caps on all drains.
- 3.2 PROTECTION OF FIXTURES
 - A. Protect all new plumbing fixtures from dirt, foreign objects, and damage during the construction period. All fixtures are new.
 - B. Do not use warped or otherwise imperfect fixtures.
 - C. Do not use installed fixtures for any purpose, except testing, prior to final acceptance by the owner.
 - D. Replace damaged fixtures at no additional cost to the Owner.
 - E. Install vacuum breakers on water supply piping connections to all fixtures and equipment in accordance with the requirements of local authorities.

- 3.3 TESTING: Entire plumbing system shall be tested in accordance with local codes and regulations. Any deficiencies noted during testing shall be corrected and system shall be retested at no cost to Owner.
- 3.4 DISINFECTION: Entire domestic water distribution shall be flushed and disinfected in accordance with local codes and regulations. Provide certificate of compliance by company certified in this field. Plumbing Contractor shall certify domestic water system to be lead free at time of completion of project.

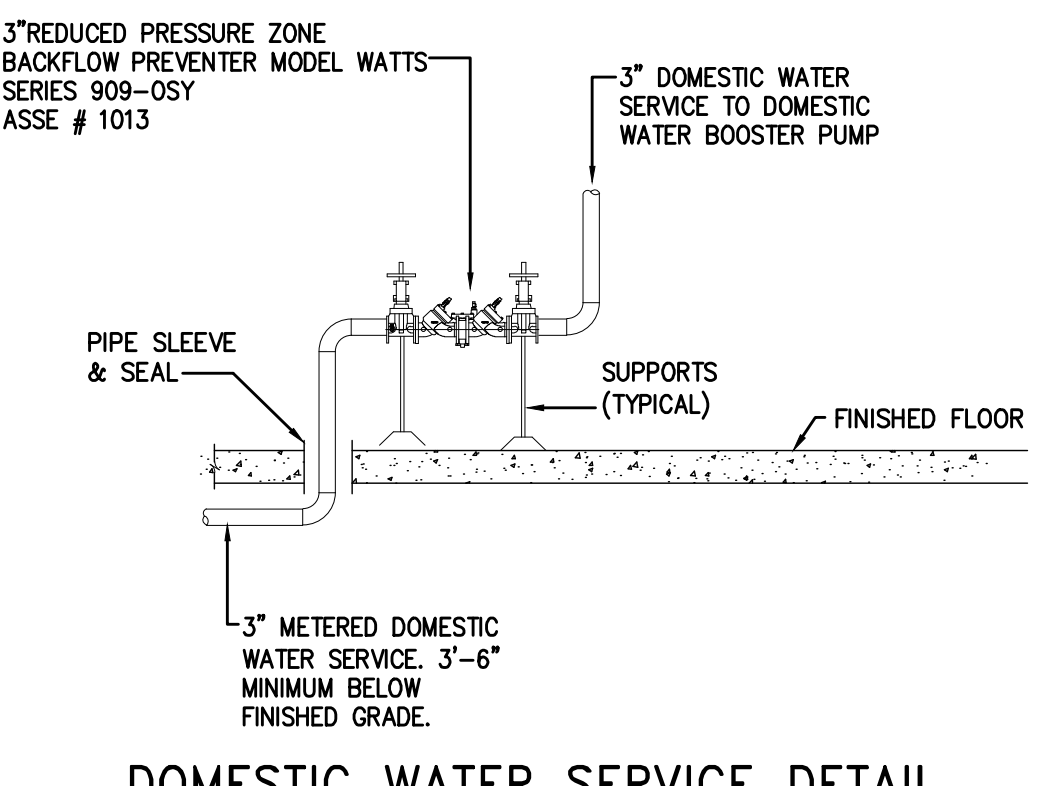
CAUTION: Over concentration of chlorine and more than three (3) hours of retention may result in damage to piping system.
- 3.5 SITE VISIT
 - A. Contractor shall visit site to determine condition before submitting his bid. Failure to do so will in no way relieve him from performing work shown or specified due to conditions encountered at site. Should conditions exist that make installation impossible, Architect is to be notified prior to bid date.
- FIRE PROTECTION
 - 4.1 Entire building shall be provided with a nes sprinkler system in accordance with N.F.P.A.-13R. Contractor shall provide shop drawings for approval by the Fire Marshall and Architect.

PLUMBING SYMBOLS LIST.

SYMBOLS	DESCRIPTIONS
---	WASTE OR SOIL PIPE.
----	VENT PIPE.
----	COLD WATER (C.W.).
----	HOT WATER (H.W.).
----	STORM PIPE.
F	FIRE PIPE.
⊖	SHUT-OFF VALVE.
○	CLEANOUT (C.O.).
○ S O	SANITARY RISER DESIGNATION.
○ W O	WATER RISER DESIGNATION.
○ ST O	STORM RISER DESIGNATION.
○ G O	GAS RISER DESIGNATION.
+	NON-FREEZE WALL HYDRANT (N.F.H.).

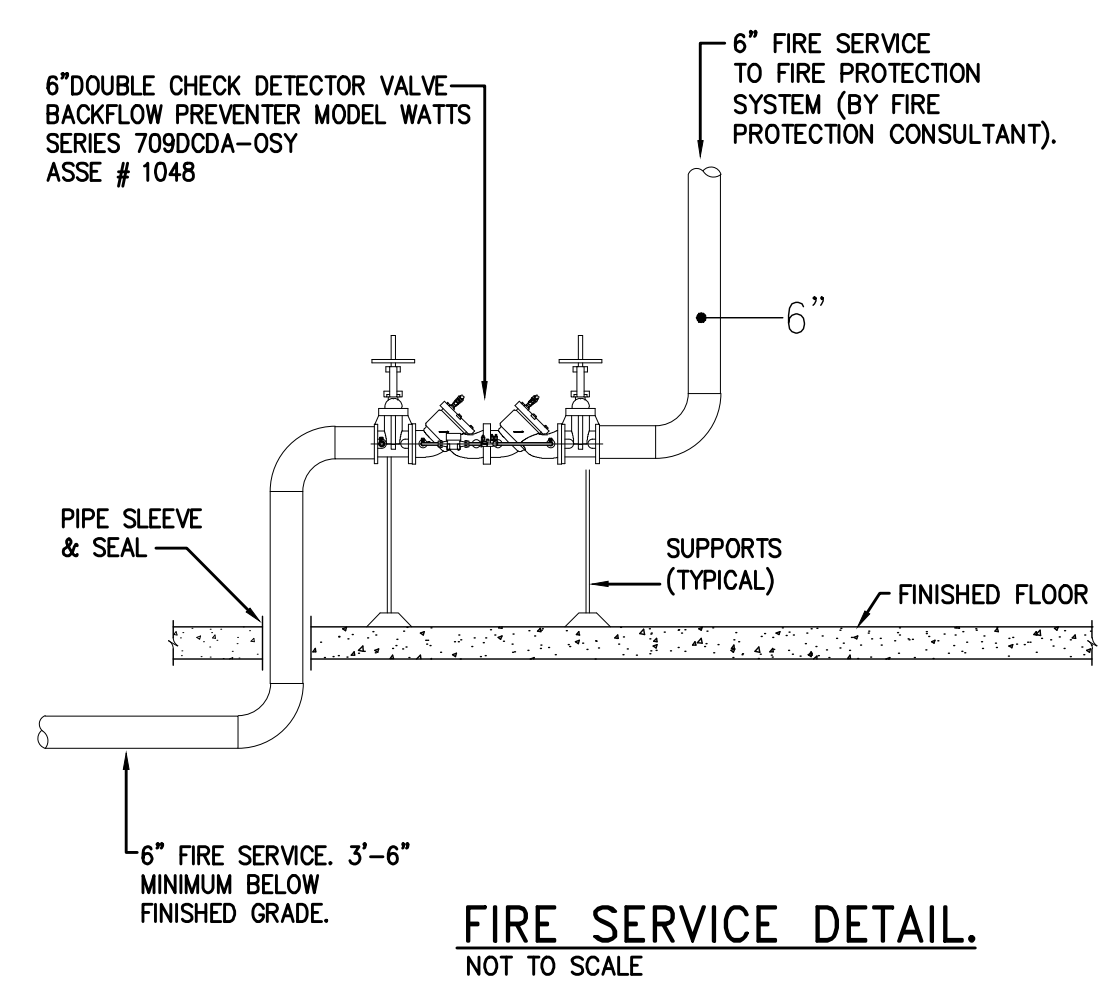


ELEVATOR SUMP PUMP DETAIL.
NOT TO SCALE

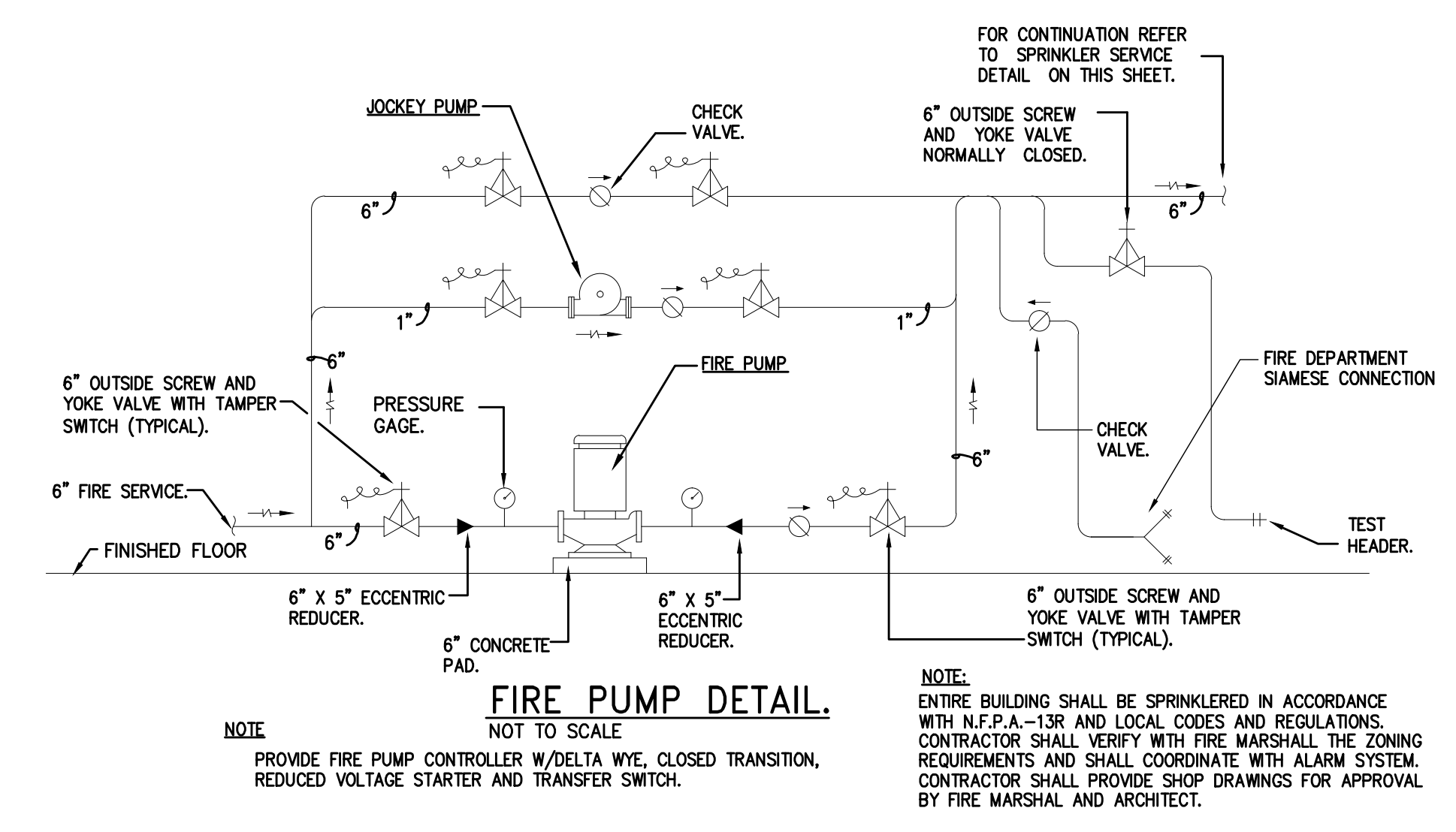


DOMESTIC WATER SERVICE DETAIL.
NOT TO SCALE

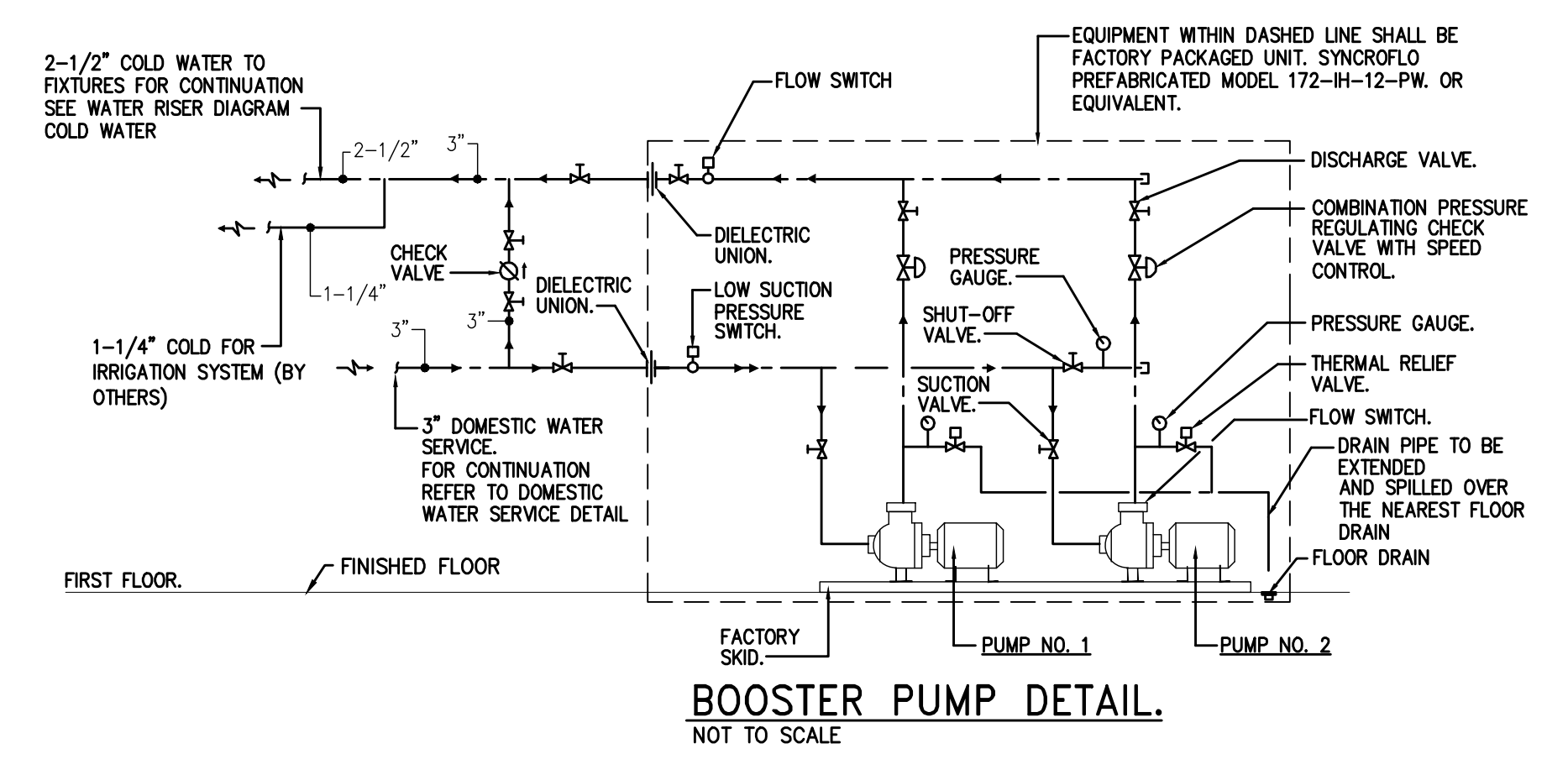
PLUMBING FIXTURE SCHEDULE						
ITEM NO.	DESCRIPTION	WASTE	VENT	C.W.	H.W.	SPECIFICATION
P-1	WATER CLOSET FLUSH TANK	3 x 4	2"	1/2"	---	BY ARCHITECT
P-2	LAVATORY VANITY	1 1/2"	1 1/2"	1/2"	1/2"	BY ARCHITECT
P-3	BATHTUB	1 1/2"	1 1/2"	1/2"	1/2"	BY ARCHITECT
P-4	KITCHEN SINK	1 1/2"	1 1/2"	1/2"	1/2"	BY ARCHITECT
P-5	WASHER CONNECTION BOX	2"	1 1/2"	1/2"	1/2"	GUY GRAY MODEL NO. B-200 FOR 2" DRAIN PIPE.



FIRE SERVICE DETAIL.
NOT TO SCALE



FIRE PUMP DETAIL.
NOT TO SCALE



BOOSTER PUMP DETAIL.
NOT TO SCALE



JES architecture
8370 Greensboro Dr.
Suite 917
McLean, VA 22102
202.403.1272
757-757-7259
Fax 202.737.7159
Email: JESarchitecture@gmail.com

3511 13th St. NW
WASHINGTON, DC 20010

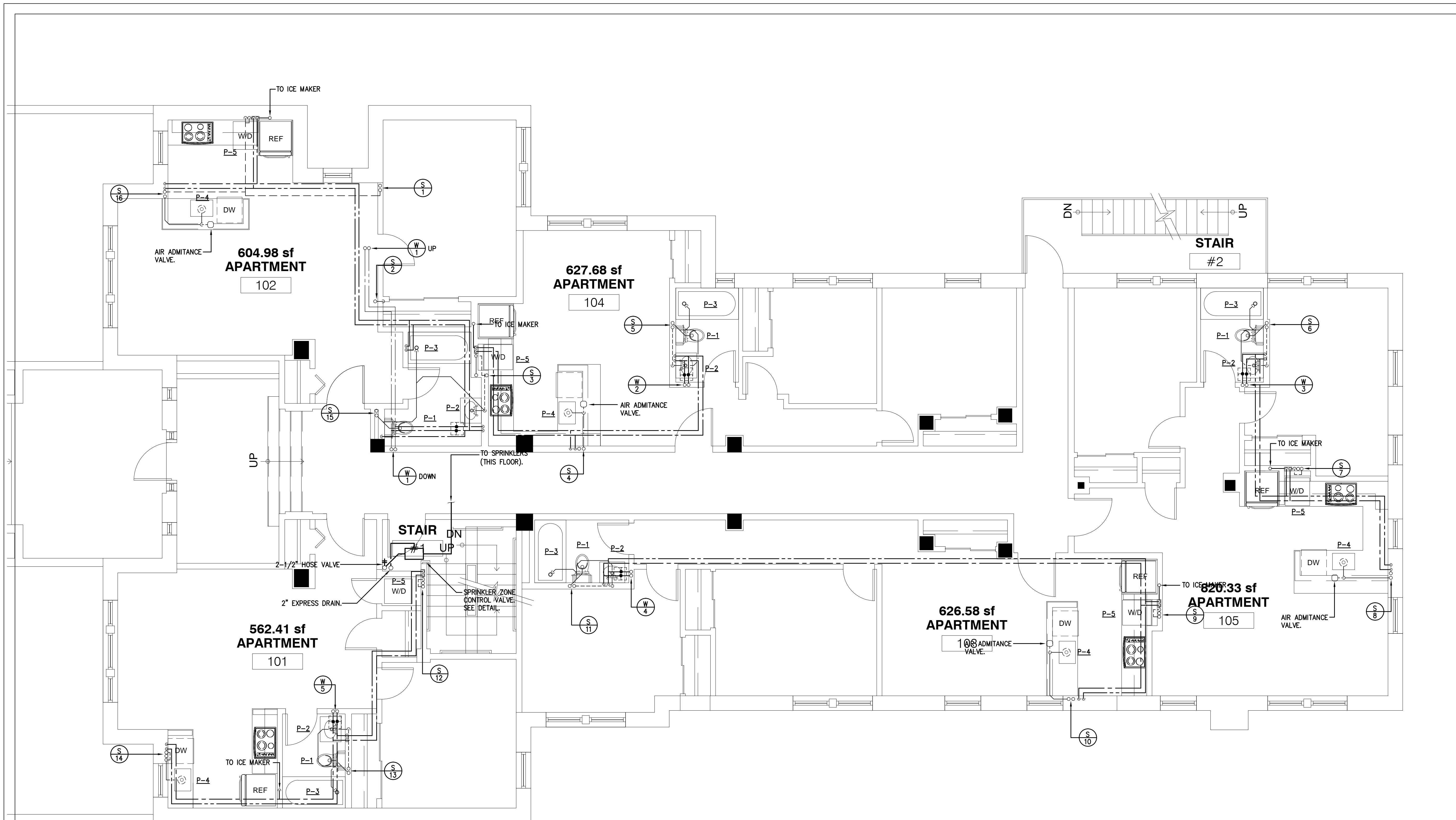
CONSULTANTS:

ISSUE DATE:
No. Date Item

PROJECT:
3511 13th St. NW

SHEET TITLE:
**SYMBOL LIST
NOTES AND
DETAILS**

SHEET NUMBER:
P-01
ISSUED: SCHEMATIC DESIGN
DATE: 3/1/2011



PLUMBING FIRST FLOOR PLAN
SCALE: 1/4" = 10"

JES architecture
 8370 Greensboro Dr.
 Suite 917
 McLean, VA 22102
 202.403.1272
 757-757-7259
 Fax: 202.737.7159
 Email: JESarchitecture@gmail.com

3511 13th St. NW
 WASHINGTON, DC 20010

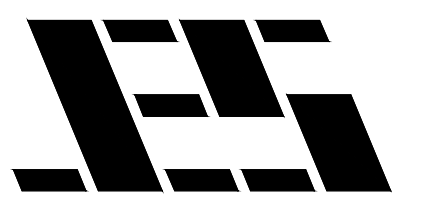
CONSULTANTS:

ISSUE DATE:
 No. Date Item

PROJECT:
 3511 13th St. NW

PROJECT NO:
 SHEET TITLE:

SHEET NUMBER:
P-03
 ISSUED: SCHEMATIC DESIGN
 DATE: 3/1/2011



JES architecture

8370 Greensboro Dr.
Suite 917
McLean, VA 22102
202.403.1272
757-757-7259
Fax: 202.737.7159
Email: JESarchitecture@gmail.com

3511 13th St. NW
WASHINGTON, DC 20010

CONSULTANTS:

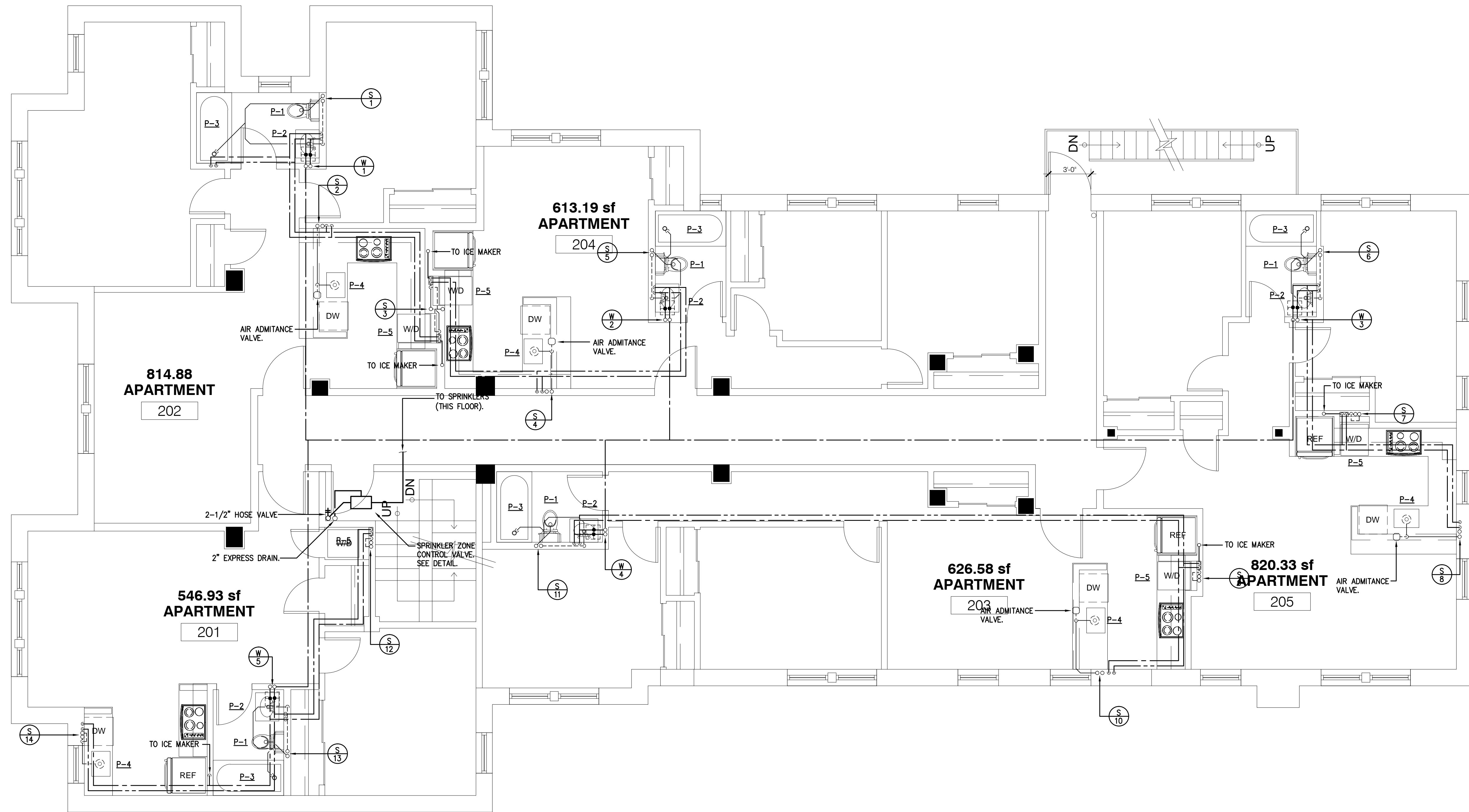
ISSUE DATE:

No. Date Item

SHEET NUMBER:
P-04

ISSUED: SCHEMATIC DESIGN

DATE: 3/1/2011



PLUMBING 2ND - 4TH FLOOR PLANS

SCALE: 1/4" = 1'0"