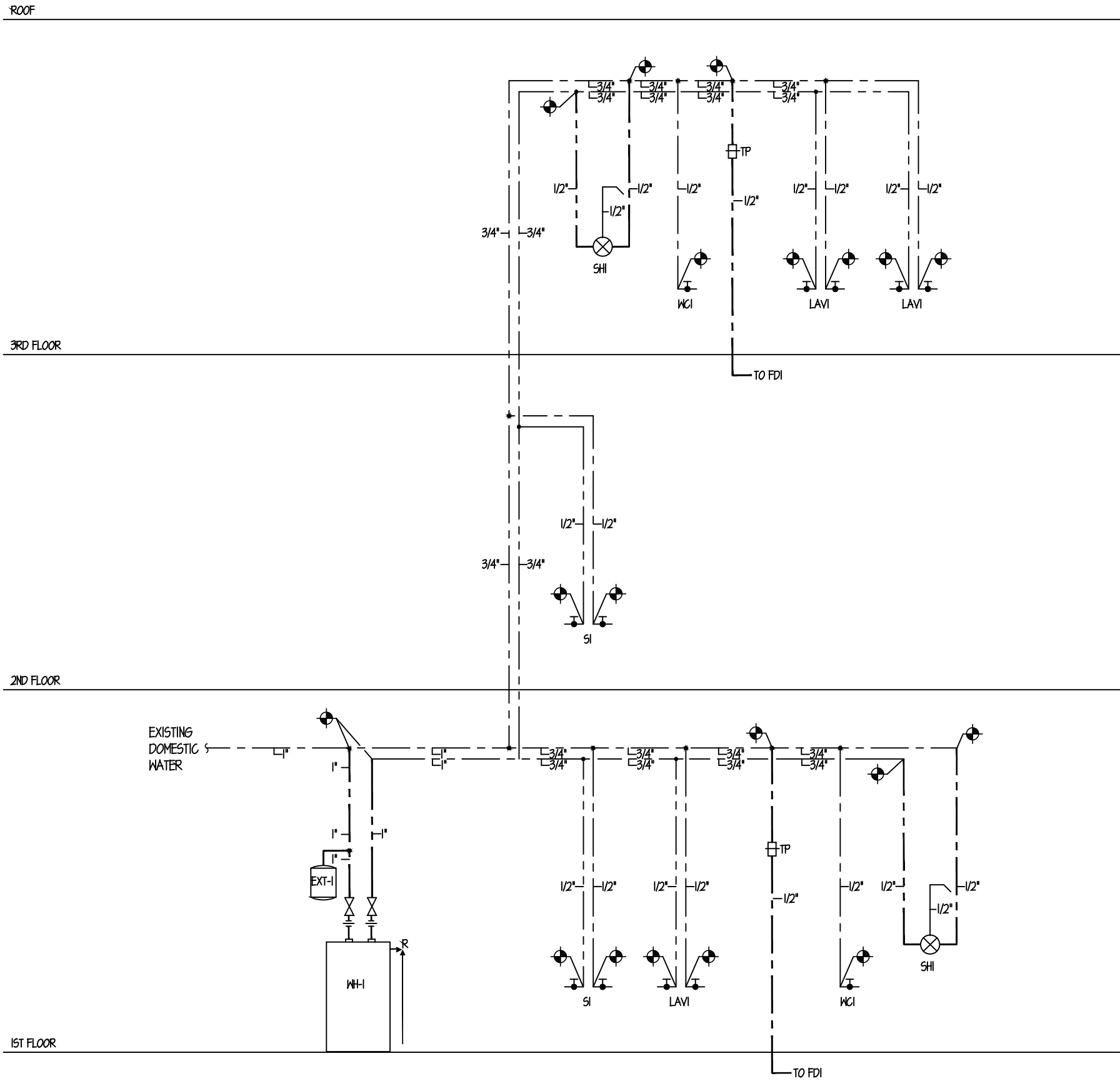
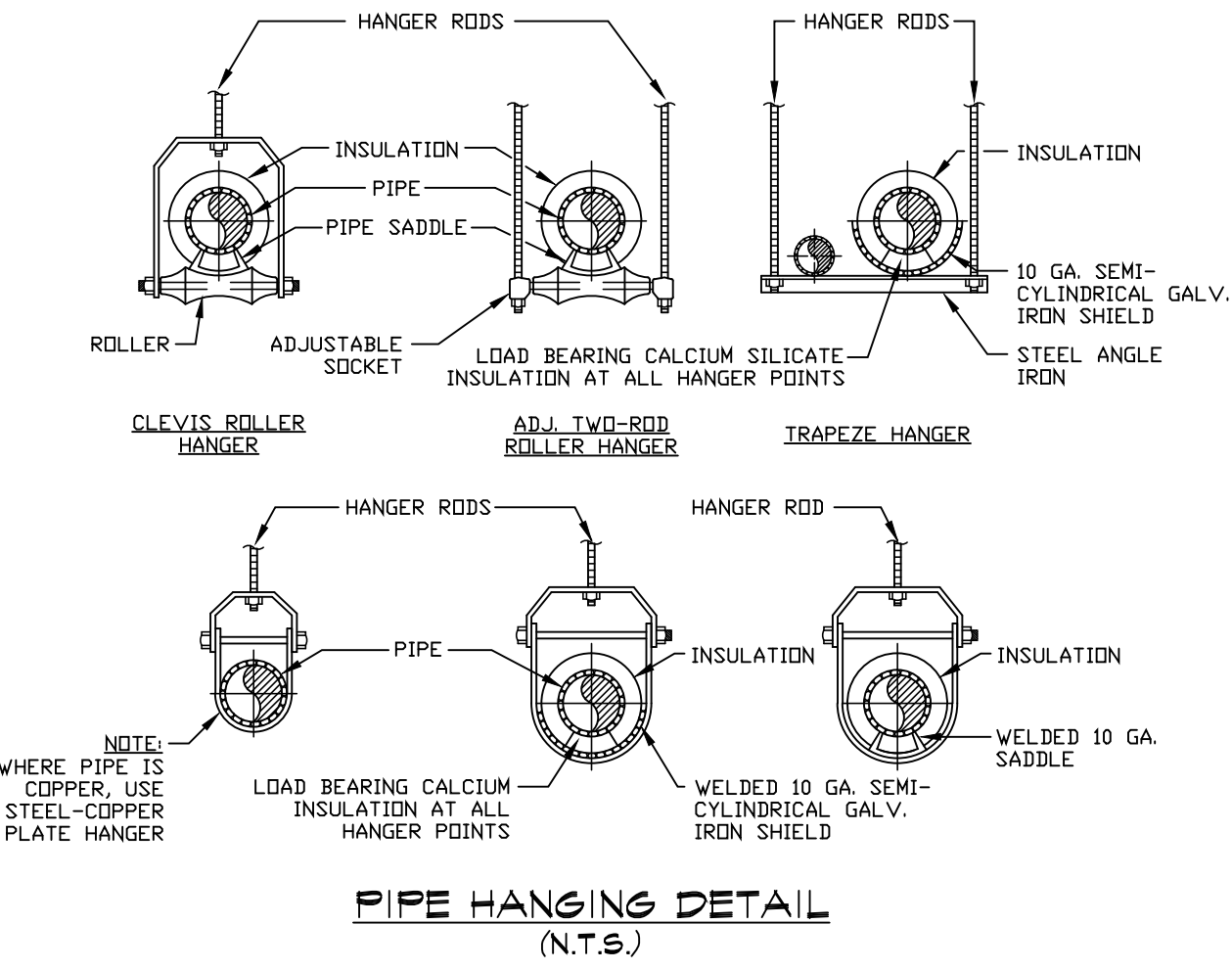


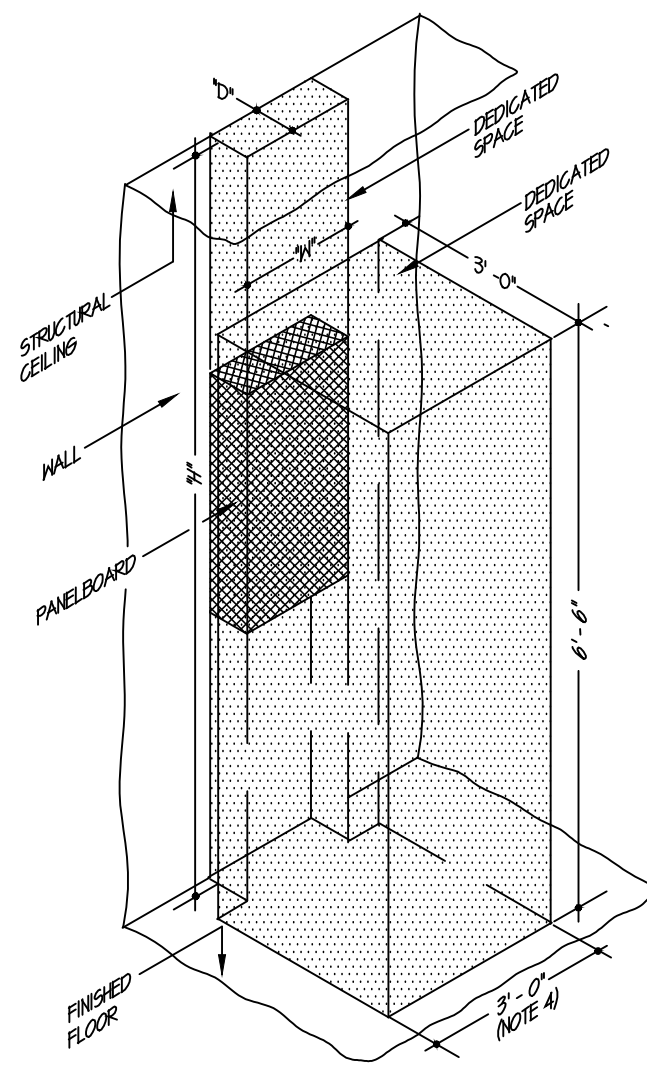
TYPICAL SANITARY RISER DIAGRAM
SCALE: NTS



TYPICAL DOMESTIC WATER RISER DIAGRAM
SCALE: NTS

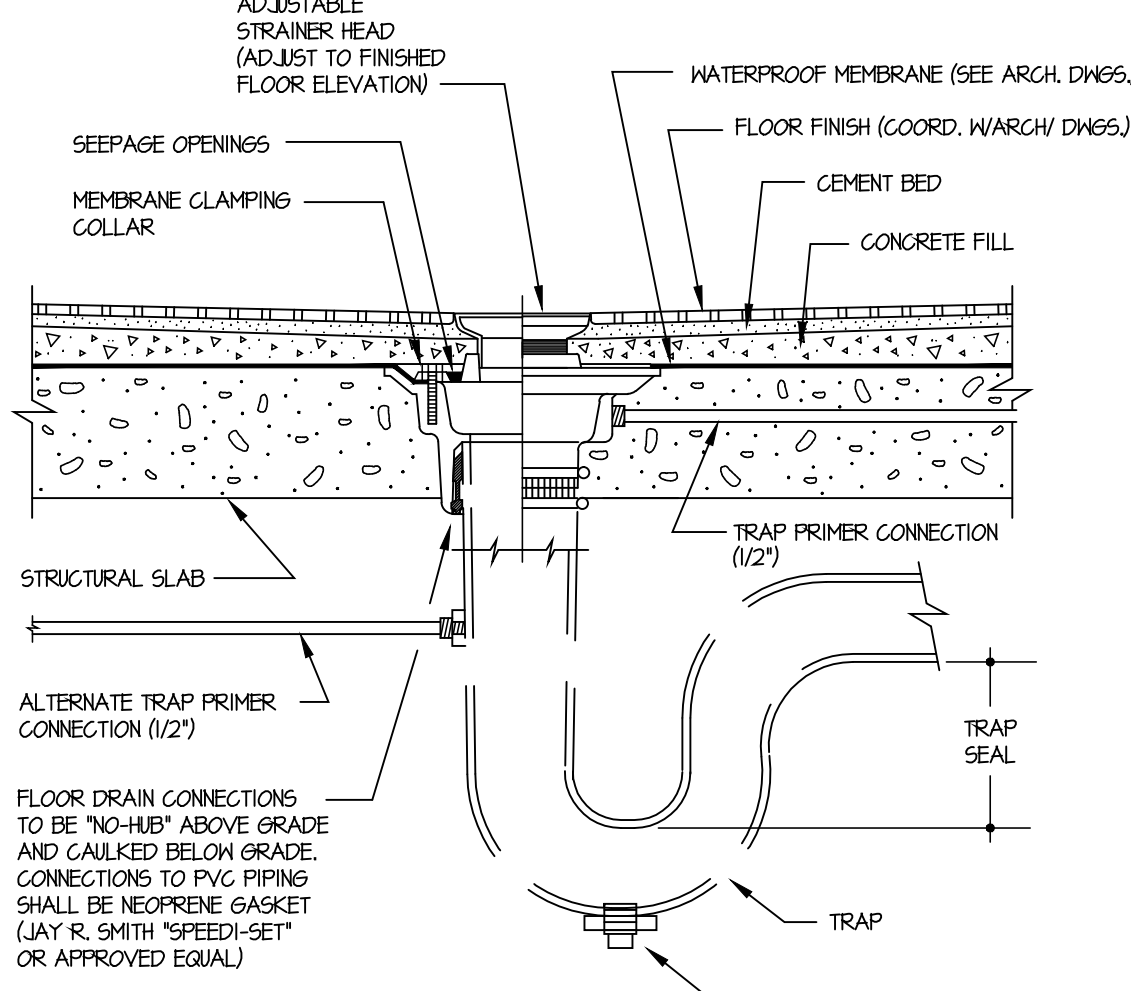


PIPE HANGING DETAIL
(N.T.S.)



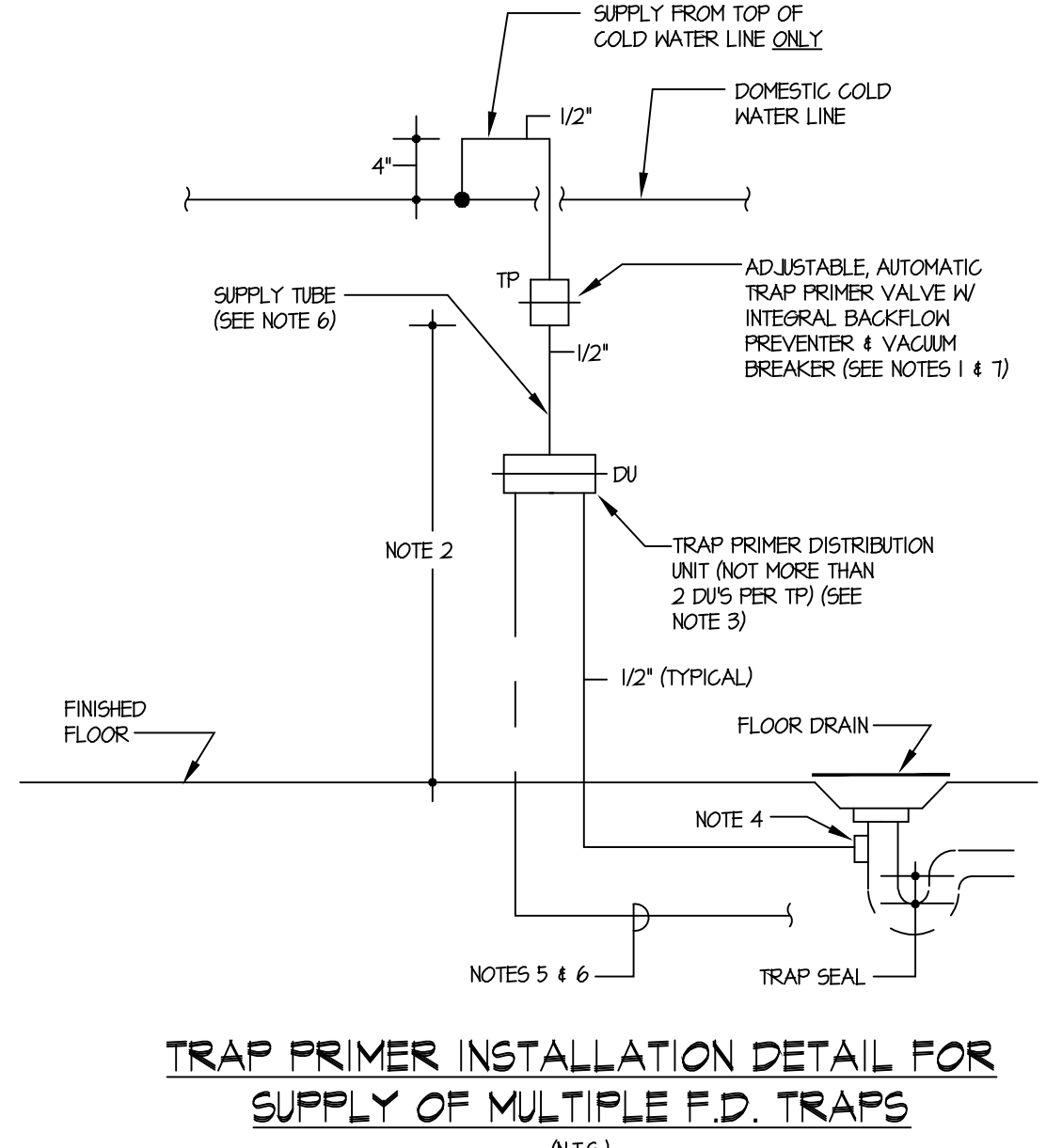
DEDICATED SPACE AROUND ELECTRICAL PANELS
(NOT TO SCALE, DIMENSIONS AS NOTED)

- NOTES:
- DIMENSIONS 3'0" AND 3'0" ARE ELECTRICAL PANEL DEPTH AND WIDTH, RESPECTIVELY. COORDINATE THESE DIMENSIONS WITH THE ELECTRICAL EQUIPMENT SHOP DRAWINGS.
 - DIMENSION 3'0" SHALL BE THE DISTANCE FROM FINISHED FLOOR TO STRUCTURAL CEILING, OR 25'-0" HANGERS, WHICHEVER IS LESS.
 - NO PIPING, DUCTS, ARCHITECTURAL APPURTENANCES OR OTHER ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED WITHIN THE DEDICATED SPACE.
 - THE THREE FOOT SIDE SECTION OF THE DEDICATED SPACE SHALL BE PERMITTED TO OVERLAP WITH THE DEDICATED SPACE REQUIREMENT FOR ADJACENT PANELS/ROCKS.
 - SUSPENDED ACoustical CEILINGs SHALL NOT BE CONSIDERED TO BE STRUCTURAL.



TYPICAL FLOOR DRAIN DETAIL FOR
FINISHED FLOORS WITH MEMBRANES
(N.T.S.)

- NOTES:
- TRAP SEAL SHALL BE MINIMUM 2" FOR FLOOR DRAINS EQUIPPED WITH TRAP PRIMER SUPPLY.
 - WHERE FLOOR DRAINS ARE NOT INDICATED ON PLAN TO BE FURNISHED WITH TRAP PRIMER SUPPLY, PROVIDE DEEP SEAL TRAP MINIMUM 4" TRAP SEAL.



TRAP PRIMER INSTALLATION DETAIL FOR
SUPPLY OF MULTIPLE F.D. TRAPS
(N.T.S.)

- NOTES:
- ADJUSTABLE TRAP PRIMER VALVE SHALL BE JOSAM CO. #80280 FOR 2 TO 4 F.D.'S. DO NOT LOCATE PRIMER VALVES WITHIN 40" OF ANOTHER PRIMER VALVE.
 - TRAP PRIMER VALVE SHALL BE MOUNTED VERTICALLY WITH BOTTOM OF UNIT LOCATED SUCH THAT HEIGHT ABOVE FLOOR/GRAB OF HIGHEST F.D. IS NOT LESS THAN ONE FOOT FOR EACH 20' OF RUN TO FURTHEST F.D.
 - FURNISH & INSTALL DISTRIBUTION UNITS AS FOLLOWS:

NO. OF F.D.'S.	DISTRIBUTION UNITS
1	NONE REQUIRED
2	JOSAM CO. #80280
 - PRIMER CONNECTIONS @ TRAPS SHALL BE LOCATED ABOVE TRAP WATER SEAL & TRAP OUTLET W/PR. PRIMER CONNECTIONS SHALL NOT BE MADE TO TRAP FLUWING INLETS.
 - PRIMER SUPPLIES TO TRAPS WHICH ARE EMBEDDED IN OR EXIST BELOW CONCRETE SLABS SHALL BE ANNEALED (SOFT) COPPER TUBE TYPE 1/2" WITH FLARED OR COMPRESSION FITTING (SOLDER JOINTS NOT PERMITTED). PRIMER SUPPLIES LOCATED ABOVE SLABS ON GRADE SHALL BE DRAWN (HARD) COPPER TUBE OF THE TYPE SPECIFIED FOR THIS PROJECT.
 - ALL LINES FROM DISTRIBUTION UNITS TO F.D.'S MUST PITCH TO F.D.
 - UPON COMPLETION OF THE INSTALLATION, ADJUST TRAP PRIMER VALVE TO ENSURE OPERATION UNDER ACTUAL OPERATING PRESSURE (PROF. ENGINE VALVE GLOVES WHEN PRESSURE STABILIZES, VERIFY FLOW TO ALL CONNECTED TRAPS.

Revisions

Date	Issue	Description
06-03-15	1	ISSUED FOR CONSTRUCTION

Key Plan

Consultants

LINWOOD ENGINEERING ASSOCIATES, P.A.

CONSULTING MECHANICAL & ELECTRICAL ENGINEERS

LEA

955 Lincoln Ave.
Glen Rock, New Jersey 07452
t: 201.857.3998
f: 201.857.3994

2301 Dupont Drive-Suite 150
Irvine, California 92612
t: 714.424.0001
f: 714.424.0004

www.linwoodengineering.com

Michael T. Davina, P.E. NJ #48654 CT #0025779

Robert J. Hatch, P.E. AR #13868 CA #E16118 CT #15318 FL #69560 MA #48516 NJ #30419 NV #019975 NY #56608 PA #036014-E

Project

INTERIOR RENOVATIONS
AT THE
BUTTERNUT - M RESIDENCE

RAMAPO COLLEGE
OF NEW JERSEY

505 Ramapo Valley Road
Mahwah, New Jersey 07430-1680

Client

RAMAPO COLLEGE
OF NEW JERSEY

505 Ramapo Valley Road
Mahwah, New Jersey 07430-1680

SNS Architects & Engineers, PC

1 PARAGON DRIVE . MONTVALE . NEW JERSEY . 07645
tel: 201.573.1767 fax: 201.573.0808 www.sns-arch-eng.com

Fay W. Logan, AIA
John M. Lignos, AIA
Lorin J. Sonenshine, AIA
Steven Napolitano, PE

Cert./Lic. No.

Date 04-23-15 Scale AS NOTED

Drawn By MD/Cad Checked By sg

Dwg. Title
PLUMBING RISER DIAGRAM & DETAILS

Work Order No. 4698M Dwg. No. P400