

Certified by: *Ronald C. Peterson*

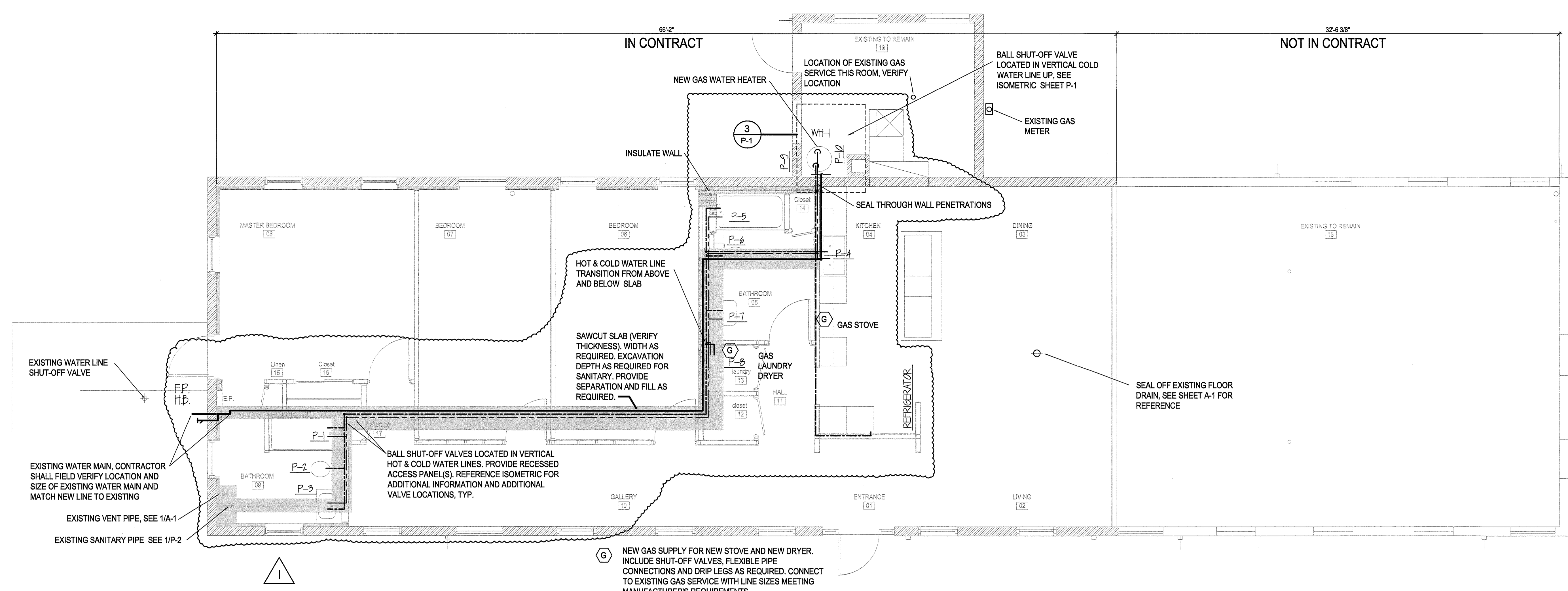
**FORT HARRISON STATE PARK**  
**BUILDING 803 CONVERSION TO APM RESIDENCE**  
**INDIANA DEPT. OF NATURAL RESOURCES**  
 5753 Glenn Rd.  
 Indianapolis, IN 46216



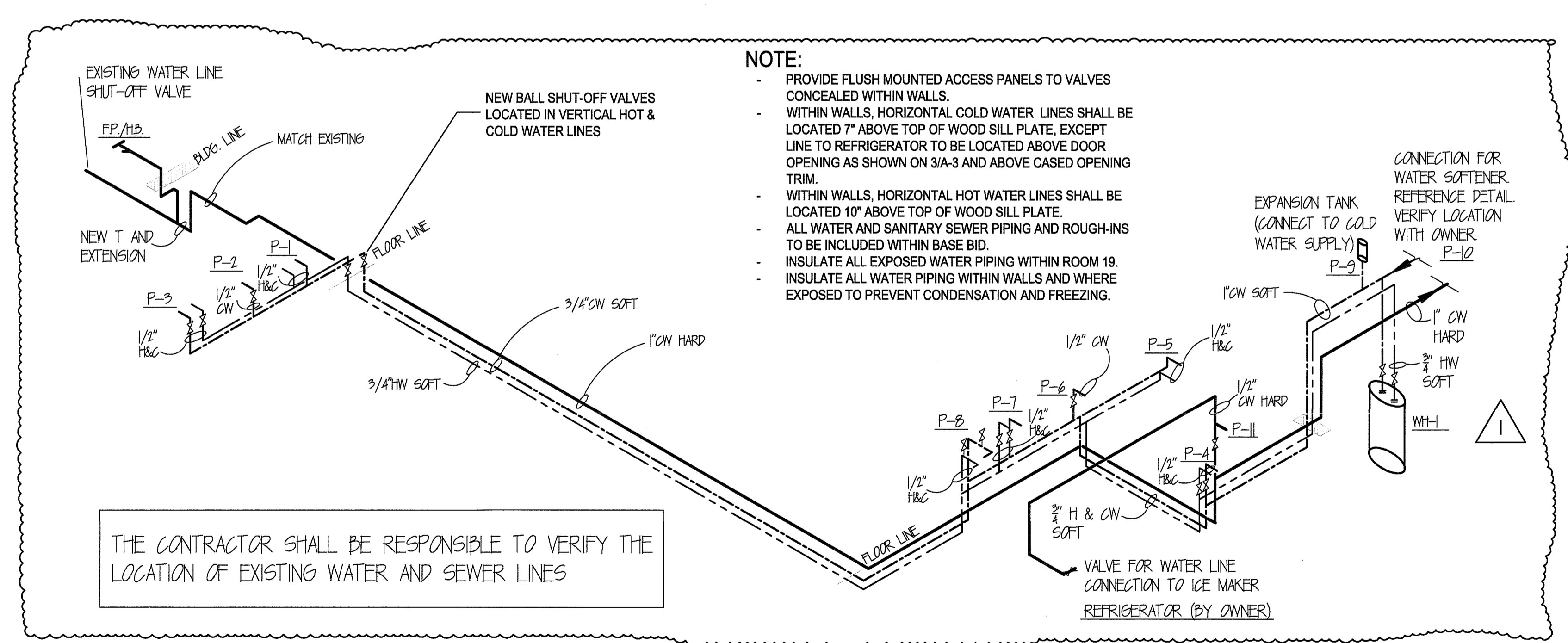
STATE OF INDIANA  
 DEPARTMENT OF NATURAL RESOURCES  
**DIVISION OF ENGINEERING**  
 ROOM 1000 INDIANA GOVERNMENT CENTER SOUTH  
 402 WEST WASHINGTON STREET  
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 TEL. 317-232-4150, FAX 317-233-1205

Revisions:  
 ADDENDUM 1 10-02-2019

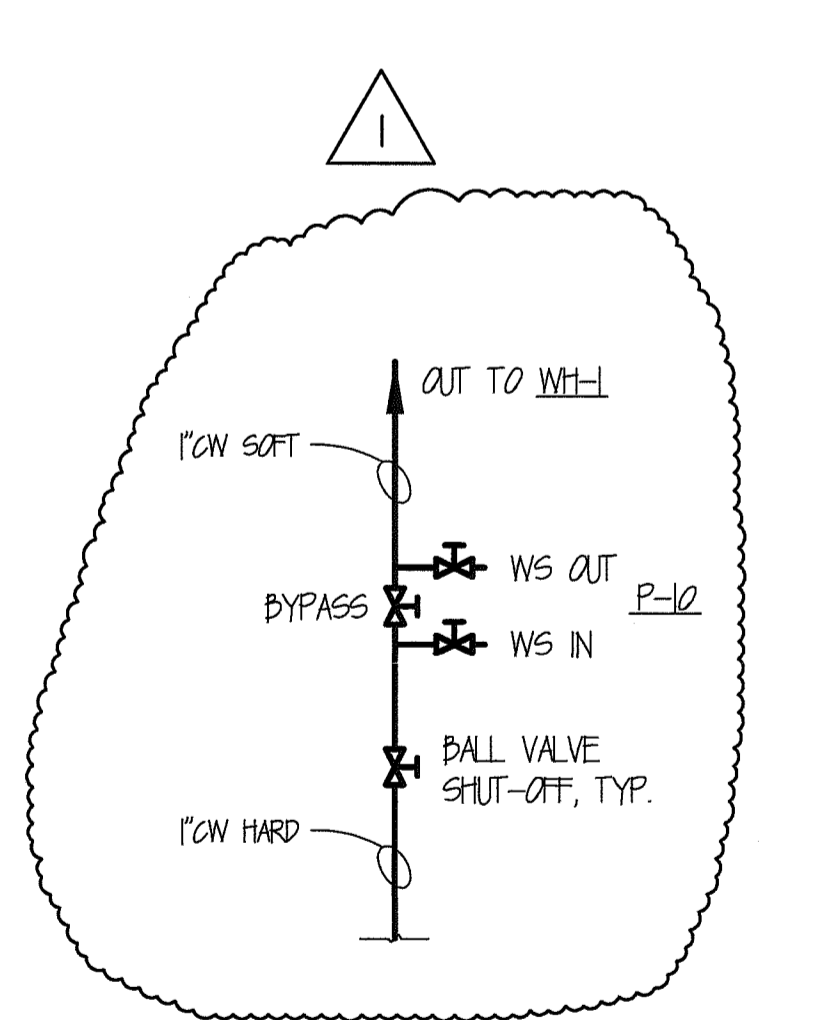
Project Number: **ENG1803727638**  
 Requisition Number: **105143**  
 Designer: R. P. Drawing Date: **09-05-2019**  
 Drafter: B.D. M.J. Drawing Scale: **AS NOTED**  
 DNR Approval:  
 Client Approval:  
 File Number: **37-46**  
 Drawing Number: **P-1**  
 Sheet: **6** of **9**



**PLUMBING - HOT & COLD WATER PLAN** 1/P-2  
 N.T.S.

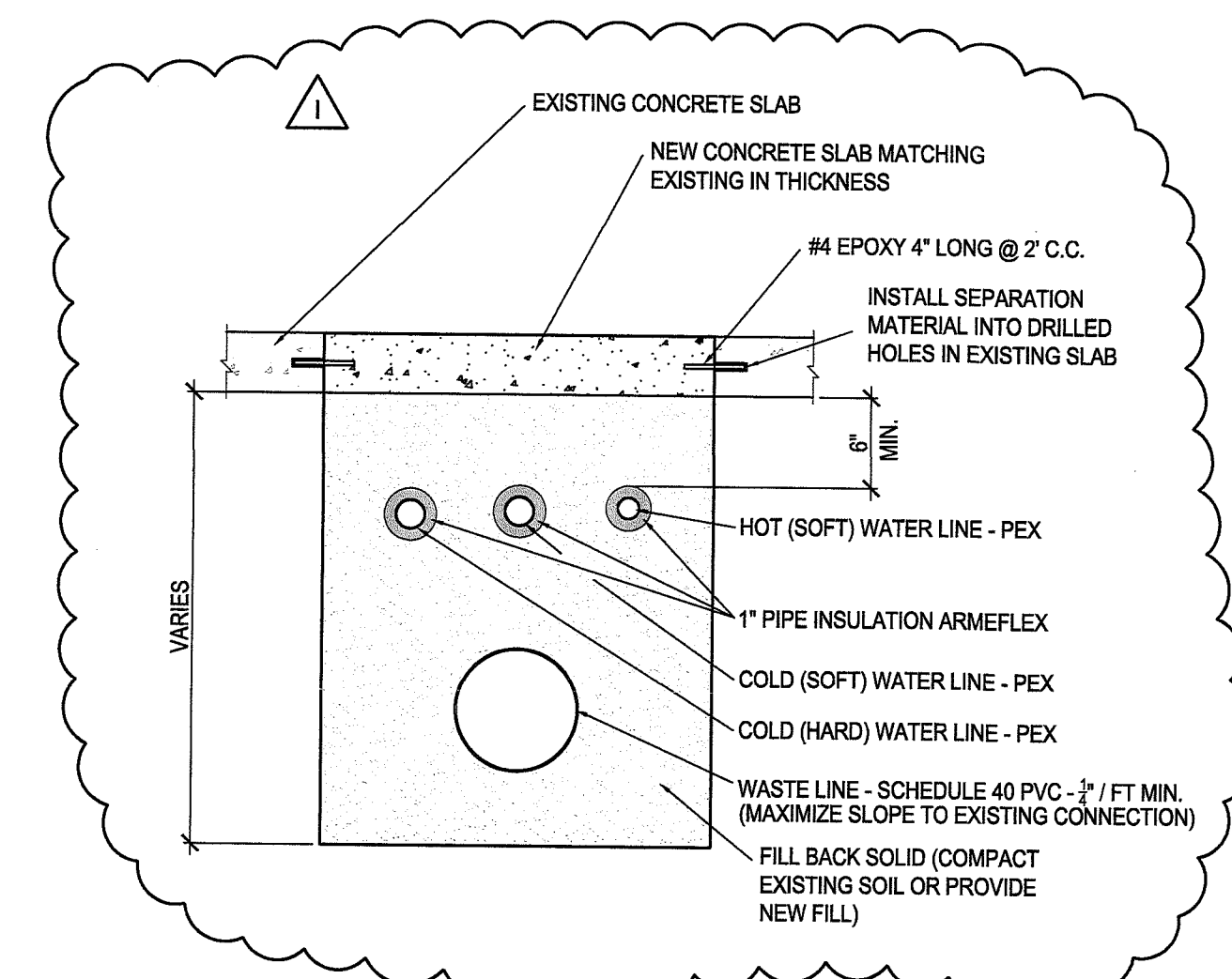
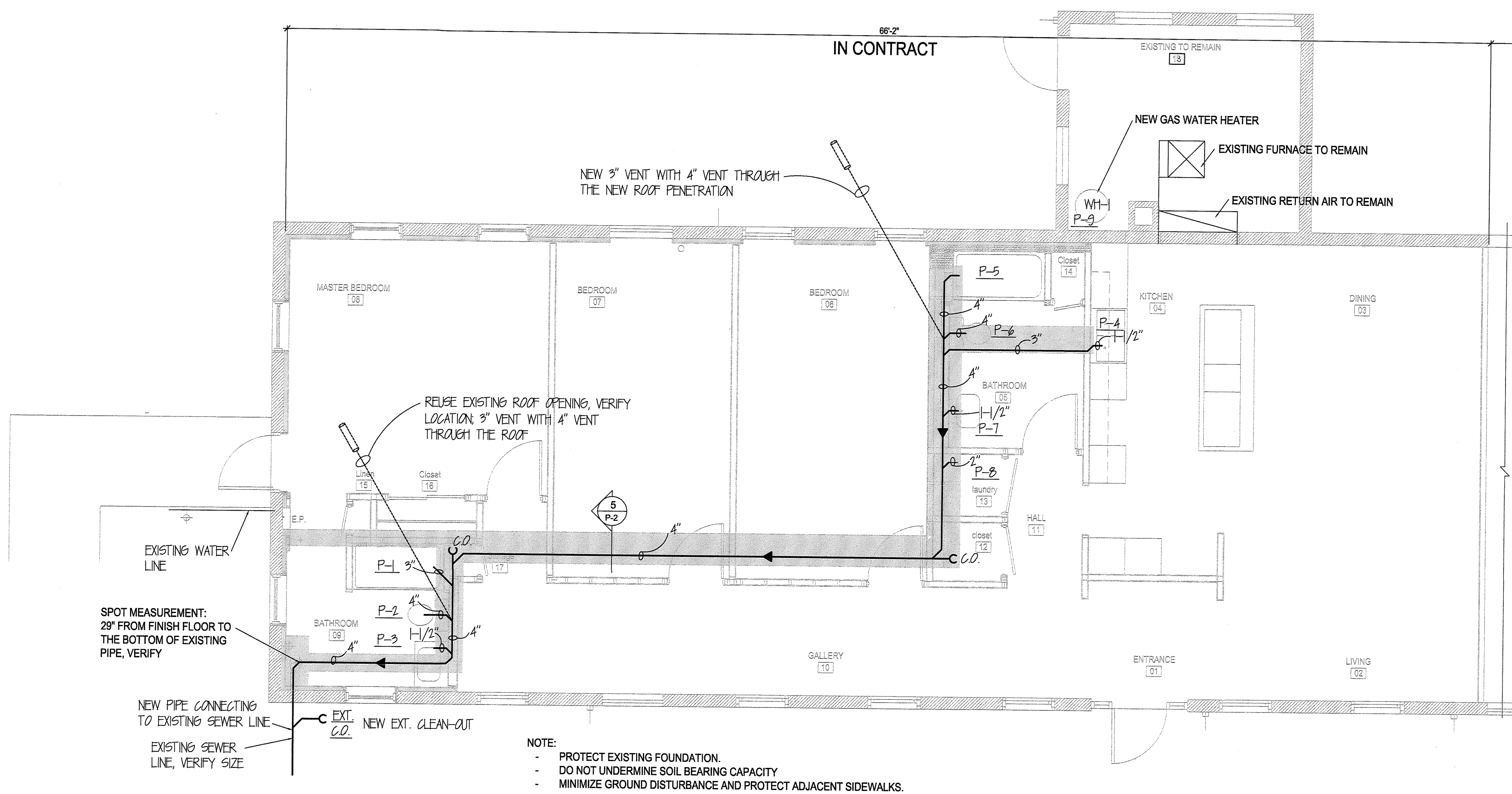


**PLUMBING - HOT & COLD WATER ISO** 2/P-1  
 N.T.S.

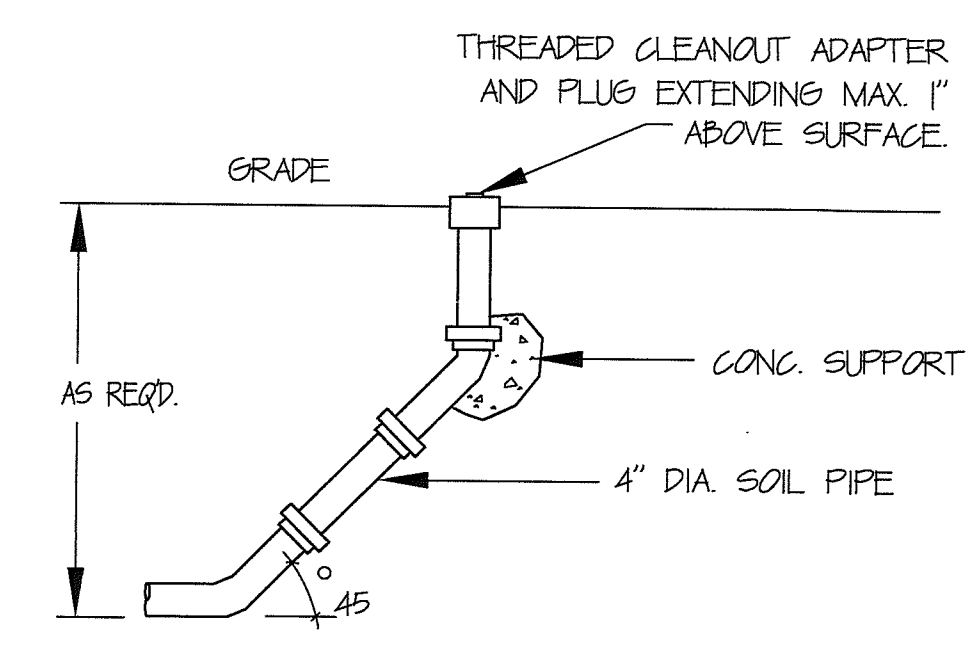


**PLUMBING - WATER SOFTENER CONNECTION DETAIL** 3/P-1  
 N.T.S.

- PLUMBING SYMBOLS**
- COLD WATER LINE HARD
  - COLD WATER LINE SOFT
  - HOT WATER LINE SOFT
  - DIRECTION OF FLOW (VARIOUS LINES)
  - WASTE PIPING (DRAIN LINE)
  - VENT PIPING
  - EXT. EXTERIOR CLEAN OUT
  - CL. CLEAN OUT
  - FD. W/ CL. FLOOR DRAIN W/ CLEANOUT (NOT USED)
  - SHUT-OFF VALVE
  - PIPING UNION (FOR W/H) DIELECTRIC
  - FP FREEZEPROOF HOSE BIBB
  - AIR ADMITTANCE VALVE
  - SHUT-OFF VALVE
  - WATER LINES VERTICAL TRANSITION FROM UNDER SLAB TO ABOVE SLAB
  - DRAWING P-1 WATER LINES UNDER SLAB. DRAWING P-2 WASTE WATER UNDER SLAB SAW CUT SLAB AS REQUIRED. REFERENCE 5/P-1 FOR ADDITIONAL INFORMATION.

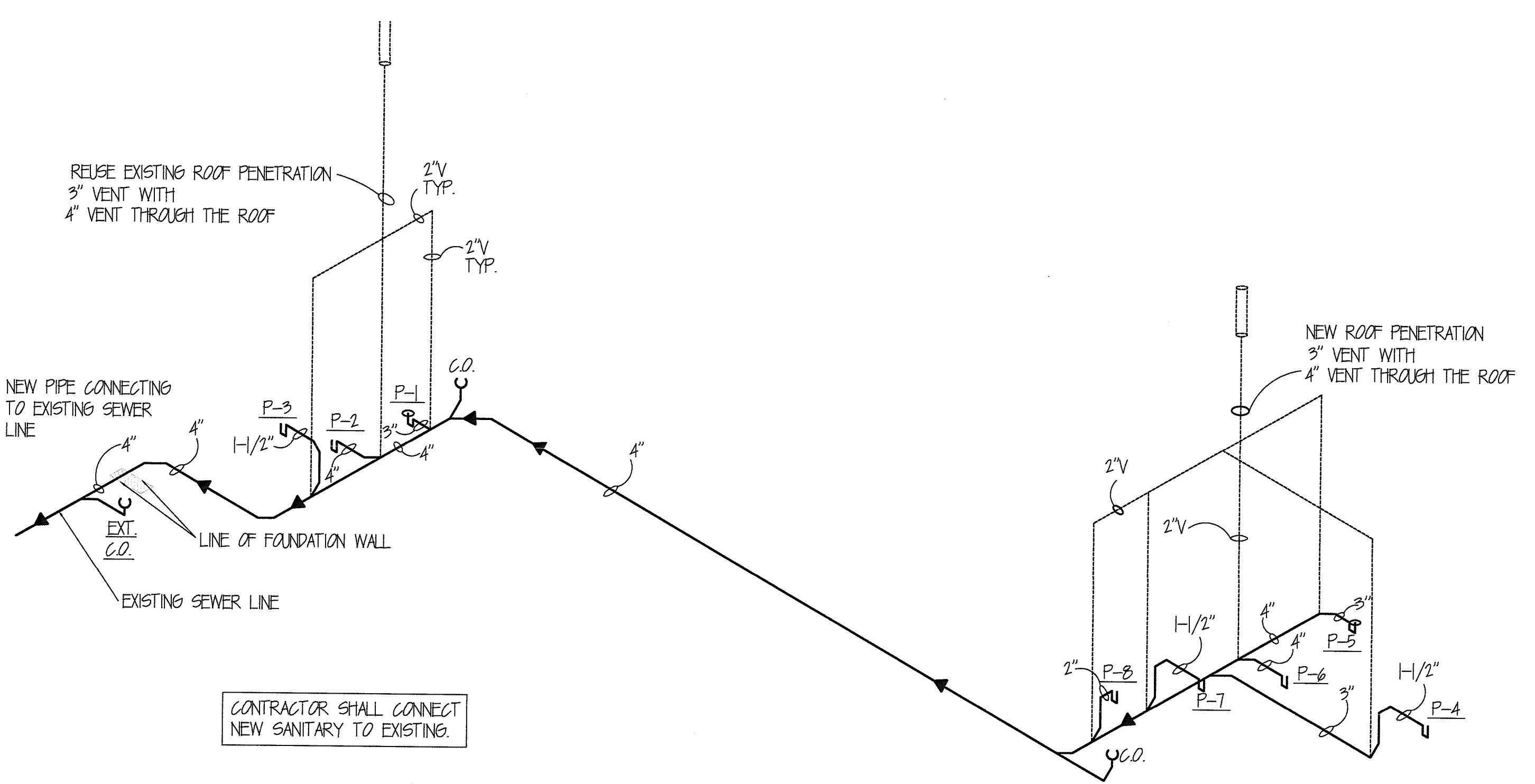


**DETAIL** N.T.S. 5 P-2



**EXTERIOR CLEAN-OUT** N.T.S. 4 P-2

**PLUMBING - SANITARY SEWER PLAN** N.T.S. 1 P-2

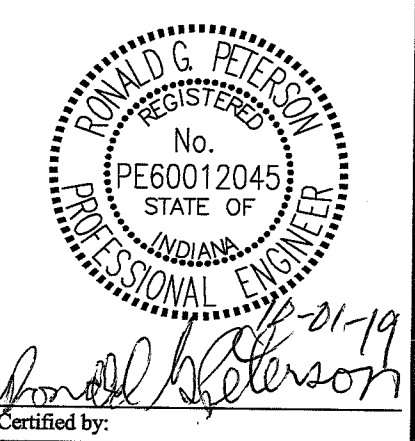


**PLUMBING - SANITARY SEWER ISO** N.T.S. 2 P-2

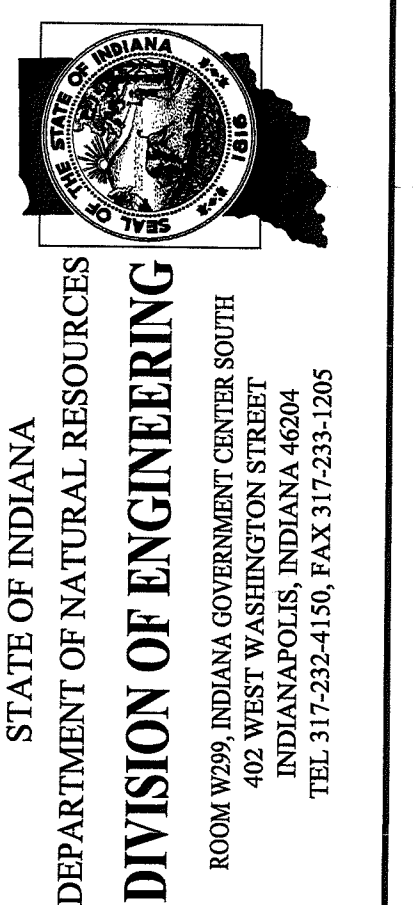
PLUMBING FIXTURE SCHEDULE									
MARK	VENDOR / MOD. NO.	DESCRIPTION	H.W.	C.W.	TRAP	WASTE	VENT	SCOPE OF WORK	NOTES
P-1	MENARDS / MOD. # 105128-001-001	MAX® TS-3060 60" x 34-1/2" Tub-Shower with Right Drain	1/2"	1/2"		H/2"	H/2"	BASE BID	1 5
P-2	MENARDS / MOD. # 799A051010	WATER CLOSET / AMERICAN STANDARD TITAN 2PCS. ELONGATED, WHITE	-	1/2"	INTEGRAL	4"	2"	BASE BID	
P-3	MENARDS / VANITY ENSEMBLE	BATHROOM SINK INTEGRAL WITH COUNTERTOP, SEE SPECS SHEET 6-2	1/2"	1/2"	H/4"	H/2"	H/2"	BASE BID	2
P-4	MENARDS / TUBANY MOD. # ST392102	OFFSET STAINLESS STEEL KITCHEN SINK WITH FAUCET & SPRAY	1/2"	1/2"		H/2"	H/2"	BASE BID	3
P-5	MENARDS / MOD. # 105128-001-001	MAX® TS-3060 60" x 34-1/2" Tub-Shower with Left Drain	1/2"	1/2"		H/2"	H/2"	ALTERNATE #4	1 5
P-6	MENARDS / MOD. # 799A051010	WATER CLOSET / AMERICAN STANDARD TITAN 2PCS. ELONGATED, WHITE	-	1/2"	INTEGRAL	4"	2"	ALTERNATE #4	2
P-7	MENARDS / VANITY ENSEMBLE	BATHROOM SINK INTEGRAL WITH COUNTERTOP, SEE SPECS SHEET 6-2	1/2"	1/2"	H/4"	H/2"	H/2"	ALTERNATE #4	2
P-8	MENARDS / MOD. # 98549	Oatey Quadro Center Drain Washing Machine Outlet Box	1/2"	1/2"				BASE BID	7
P-9	EASTMAN / MOD. # 40211	EXPANSION TANK FOR GAS WATER HEATER		1/2"				BASE BID	
P-10	TO BE DETERMINED	WATER SOFTENER SYSTEM						BY OWNER	8
P-11	TO BE DETERMINED	SINK MOUNTED DRINKING WATER SYSTEM						BY OWNER	8
WH-1	Lochinvar / MOD. # UN1040 40	Ultra Low NOx Residential Gas Water Heater	3/4"	3/4"				BASE BID	4
FP/HD-1	WOODFORD / MOD. #15	EXTERIOR / FREEZE PROOF HOSE BIBB	-	1/2"	-	-	-	BASE BID	

- NOTES:**
- MENARDS: Tuscan Marianna One-Handle Tub/Shower Faucet in Brushed Nickel; MODEL # 1125 BN
  - MENARDS: MOEN HILLIARD 2H LAVATORY FAUCET, MODEL # 84537GRN
  - MENARDS: KITCHEN SINK FAUCET, DELTA CLASSIC 1H KIT W/SP SS, MODEL # 400-SS-DST
  - PROVIDE DRAFT HOOD, VENT PIPE, CONNECTIONS, DISCHARGE PIPE, METAL DRAIN PAN, GAS CONNECTIONS AND REQUIRED ACCESSORIES
  - 1 - Piece Unit, COLOR: WHITE
  - PROVIDE BRASS COVER PLATES
  - PROVIDE BRASS WATER HAMMER BALL VALVES
  - SOFTENER AND DRINKING WATER SYSTEM EQUIPMENT BY OWNER. PROVIDE ALL PIPING, VALVES, AND RELATED ITEMS AS REQUIRED FOR CONNECTION TO OWNER'S FUTURE EQUIPMENT.

**PLUMBING FIXTURE SCHEDULE** 3 P-2



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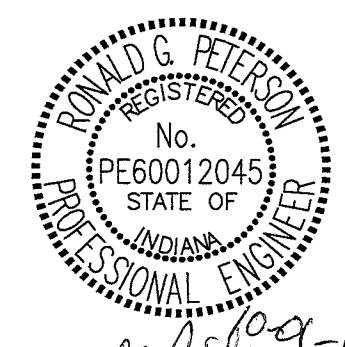
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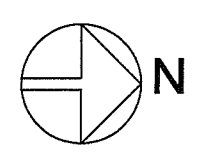
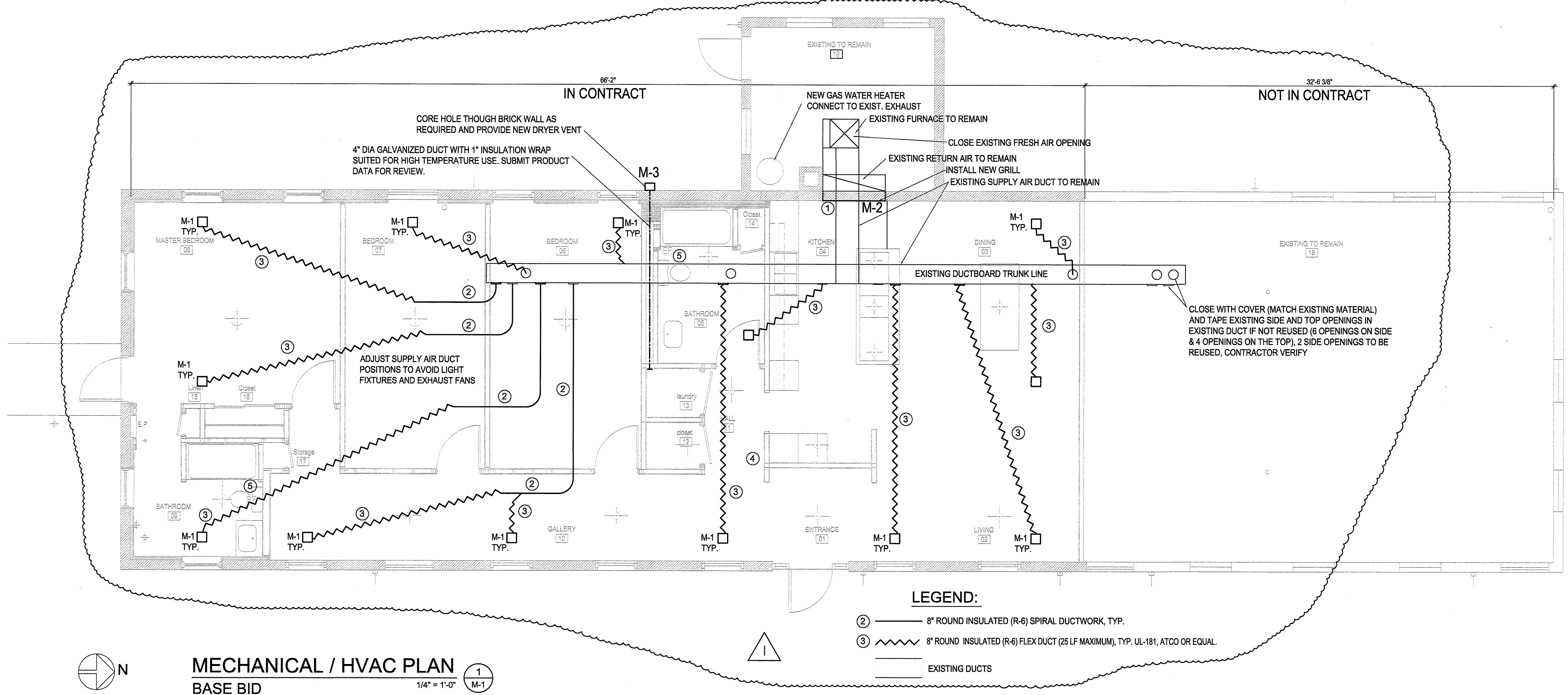
File Number: **37-46**

Drawing Number: **P-2**

Sheet: 7 of 9



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**MECHANICAL / HVAC PLAN**  
BASE BID

1/4" = 1'-0" M-1

**LEGEND:**

- ② 8" ROUND INSULATED (R-6) SPIRAL DUCTWORK, TYP.
- ③ 8" ROUND INSULATED (R-6) FLEX DUCT (25 LF MAXIMUM), TYP. UL-181, ATCO OR EQUAL.
- EXISTING DUCTS

**NOTES:**

ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED (R-6)

**PLAN NOTES:**

- ① INSTALL NEW GRILL MATCHING EXISTING IN DIMENSIONS
- ② 8" ROUND INSULATED (R-6) SPIRAL DUCTWORK, TYP.
- ③ 8" ROUND INSULATED (R-6) FLEX DUCT (25 LF MAXIMUM), TYP. UL-181, ATCO OR EQUAL.
- ④ THERMOSTAT SHALL BE HONEYWELL TH5110D-1022 OR EQUAL, INCLUDE BATTERY.
- ⑤ REFERENCE ELECTRICAL PLAN FOR EXHAUST FANS

**MECHANICAL FIXTURE SCHEDULE**

MARK	VENDOR / MOD. NO.	DESCRIPTION	NOTES
M-1	TITUS / MOD.# OMNI-AA	SUPPLY AIR DIFFUSER 12"x12"	1, 2, 3
M-2	TITUS / MOD.# 380FS	RETURN AIR GRILLE APPROX. 10" X 48", TYPE 1 BORDER, TYPE A FASTENING, VERIFY SIZE	3
M-3	Dundas - Jafine MODEL # BLH4WZW	ProVent 3" White Louvered Exhaust Hood	

**NOTES:**

1. PROVIDE MODEL D-100 DAMPER.
2. GYPSUM BOARD CEILING MOUNT. CENTER ON WINDOWS WHERE INDICATED.
3. COORDINATE WITH EXISTING RA DUCTWORK

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