

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 024

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 08/24/2016

Contract Date:

Reason Code: 05 A/E Scope

Discipline Code: 11 (Plumbing)

Owner:
Webster University

Architect:
Cannon Design
1100 Clark Avenue
St. Louis, MO 63102

Contractor:
Paric Construction

Contract For: General construction

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents and return a copy to the Architect within fourteen (14) business days of the date of issuance of these instructions. If you feel a change in Contract Sum or Contract Time is warranted, please submit an itemized quotation for the changes for approval within fourteen (14) business days of the date of issuance of these instructions prior to proceeding on the Work. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change.

Attachments:

Drawings:

P0011 – Level 01 Area A/B Underfloor Plan – Plumbing
P0101.A – Level 01 Area A Floor Plan – Plumbing
P0104.A – Level 04 Area A Floor Plan – Plumbing
P0105.A – Level 05 Area A Roof Plan – Plumbing
P0111.A – Level 01 Area A Floor Plan – Plumbing Waste and Vent
P0111.B – Level 01 Area B Floor Plan – Plumbing Waste and Vent
P0403 – Risers - Plumbing
<End of Drawing List>

1100 Clark Avenue
St. Louis, Missouri
63102
T: 314.241.6250
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Reason Codes:
#1. Jurisdictional Agency
#2. Constructor Driven
#3. Document Inconsistency
#4. Fast Track Driven
#5. A/E Scope
#6. Owners Scope
#7. Unforeseeable Conditions
#8. Other

Discipline Codes
#1. Demo-demolition
#2. Div1-Division 1 items on the spec book
(this item is not used)
#3. Electrical
#4. Elevator
#5. Equipment (Changes in equipment,
Owner Purchased)
#6. Fire Protection

Discipline Codes
#7. General Construction (Architectural)
#8. General Conditions (Div. 1)
#9. HVAC
#10. Other
#11. Plumbing
#12. Site Work/Landscaping
#13. Structural

Architect's Supplemental Instructions

Page 2

Description: ASI – 024 (RFI-222, 233, 235 & 236)

ASI-022 is being issue for the purpose of addressing RFI-222, 233, 235 & 236)

RFI-222, (P0011 & P0111.A); Provide and install 4" CI Standpipe 2 feet above finish floor for sprinkler system drainage. Refer to sheets P0011, P0101.A & P0111.A.

RFI-233, (P0111.B); Re-route 1-inch drip pan drain line as noted on plan sheet P0111.B, to avoid conflict with structural steel members. Drop down in west wall to connect to tailpiece at scrub sink along wall. Refer to sheets P0111.B for all changes.

RFI-235, (P0101.A & P0403); Revise 8-inch combination fire and domestic water service as noted. Remove 8-inch building service valve as indicated. Install new 4-inch domestic valve on 4-inch domestic service line as shown on drawings P0101.A and riser diagram sheet P0403. Relocate pressure gauge as indicated on plans.

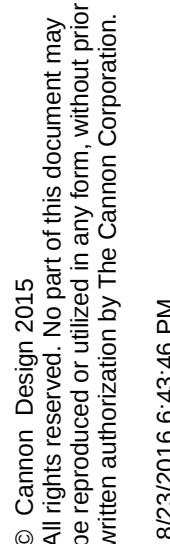
RFI-236, (P0104.A, P0111.A & P0105.A); Provide and install ¾" CW service up through roof to serve Non-Freezing Sanitary Roof Hydrant, Jay R. Smith model 5903 or equal. Refer to sheets P0104.A, P0111.A and P0105.A for all changes. Coordinate exact location of hydrant with Architect prior to rough-in.

Please submit an itemized proposal for changes in contract Sum and Contract Time for proposed modifications to the Contract Documents described herein:

Issued by Architect:

Michael Whitworth

Accepted by Contractor:



MSD P# 28874-01 MSD BASE MAP 23K3



Webster University
Interdisciplinary Science
Building

CANNONDESIGN

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William Tao & Associates, Inc
MEP/FP Engineer
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David Mason & Associates, Inc
Structural & Civil Engineer
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St. Louis, MO 63110
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Faith Group
Technology
3101 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6616

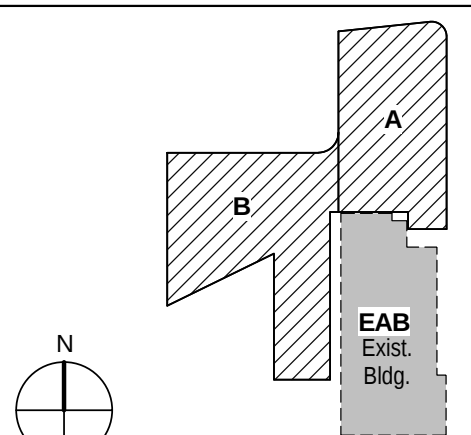
KWA Architects
Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
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Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

9	ASI - 024 (RFI 222,233,235 & 236)	24 AUG 2016
8	ASI - 014 (RFI-176)	21 JUL 2016
7	ASI - 002 (RFI - 172)	15 JUL 2016
6	ADDENDUM 2-4	24 MAY 2016
5	ADDENDUM 2-3	24 APR 2016
4	ADDENDUM 2-2	19 APR 2016
3	MSD SUBMITTAL	12 APR 2016
2	MSD SUBMITTAL	08 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
	- ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



KEY PLAN

**LEVEL 01 AREA A/B
UNDERFLOOR PLAN -
PLUMBING**

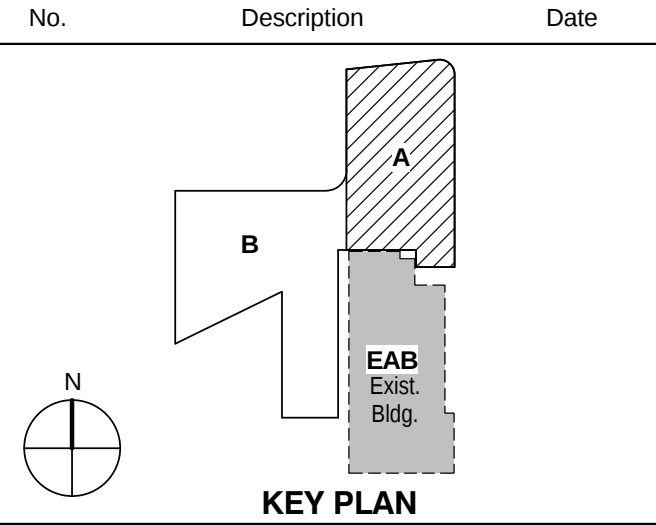
Project No.: 04561.01

Checked by:

P0011

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5	ASI - 024 (RFI 222,233,235 & 236)	24 AUG 2016
4	ADDENDUM 2-4	24 MAY 2016
3	ADDENDUM 2-2	19 APR 2016
2	MSD SUBMITTAL	12 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

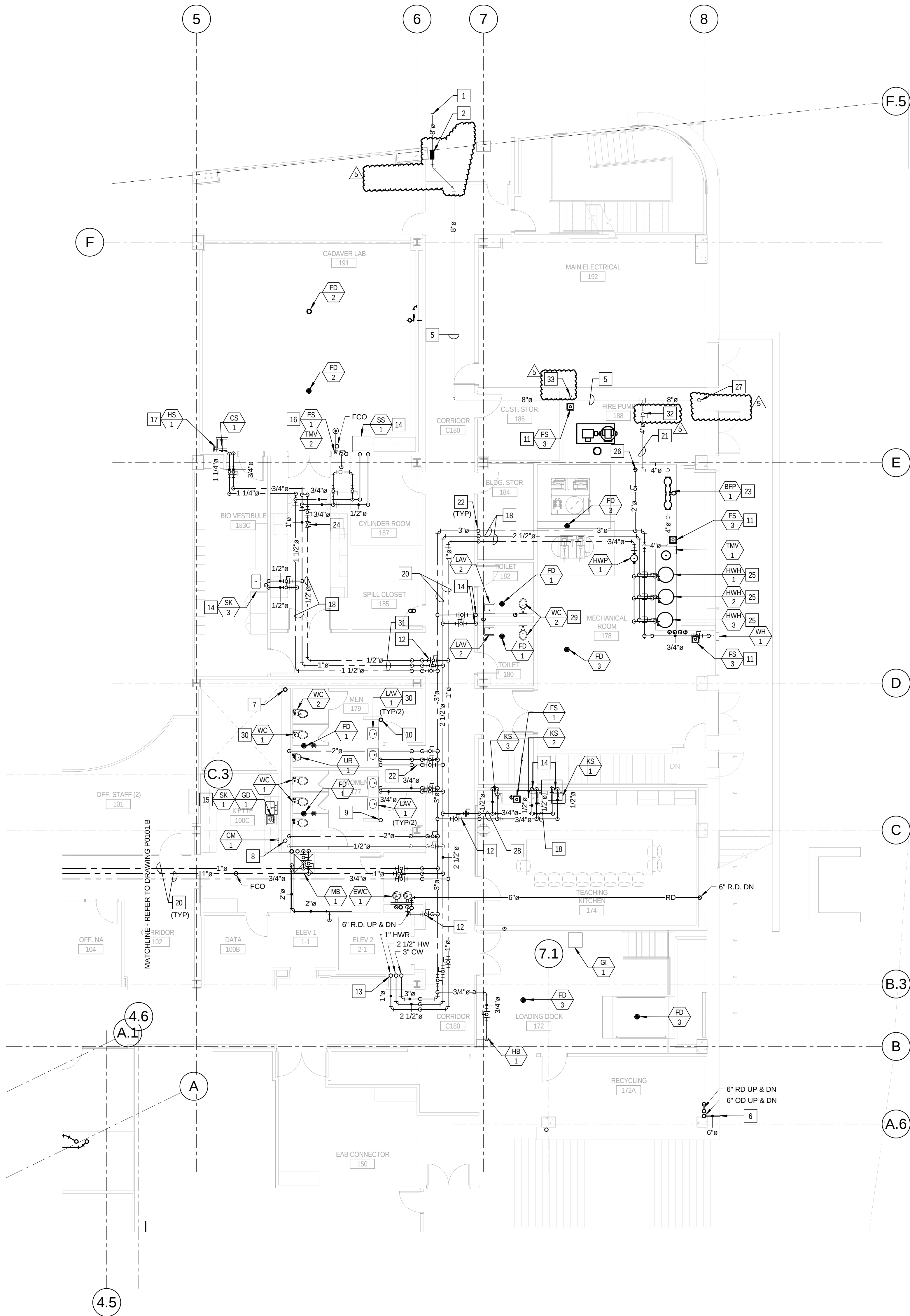


Drawing Title:

LEVEL 01 AREA A FLOOR
PLAN - PLUMBING

Project No.: 04561.01 Checked by:

P0101.A



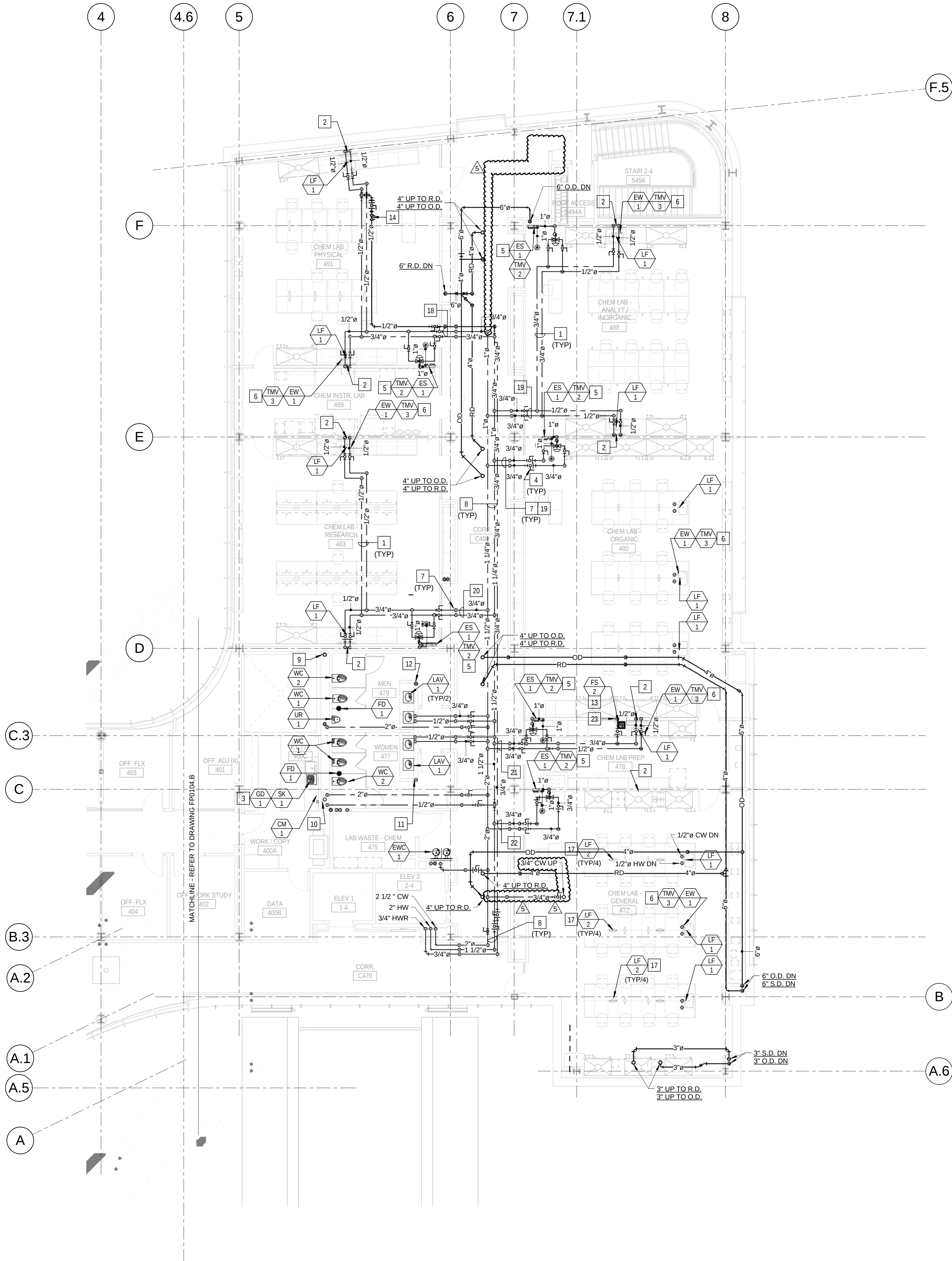
1 LEVEL 01 AREA A FLOOR PLAN - PLUMBING
1/8" = 1'-0"

KEYED NOTES - (THIS SHEET ONLY)

- 8" COMBINATION FIRE/DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- SLEEVE AND SEAL WATER TIGHT WITH "LINK-SEAL" ASSEMBLY. REFER TO DETAIL ON SHEET P0501.
- NOT USED.
- BUILDING PRESSURE GAUGE POSITION TO BE VISIBLE.
- 8" GALVANIZED COMBINATION FIRE/DOMESTIC WATER SERVICE ABOVE CEILING. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH IN. REFER TO DRAWING P0401, DETAIL 1.
- COORDINATE LOCATION OF DOWN SPOUT NOZZLE AND WALL SLEEVE WITH OTHER TRADES PRIOR TO ROUGH IN.
- 4" SANITARY VENT RISER UP TO SERVE WATER CLOSETS, URINALS AND FLOOR DRAINS ON EACH LEVEL.
- 4" SANITARY WASTE RISER UP TO SERVE WATER CLOSETS, URINALS AND FLOOR DRAINS ON EACH LEVEL.
- 2" SANITARY WASTE RISER UP TO SERVE LAVATORIES ON EACH LEVEL.
- 2" SANITARY VENT RISER UP TO SERVE LAVATORIES ON EACH LEVEL.
- COORDINATE LOCATION OF FLOOR -SINK WITH LAYOUT OF ROOM AND FOUNDATION BELOW PRIOR TO ROUGH IN.
- FURNISH AND INSTALL SHUT-OFF VALVES AT THE ENTRY TO EACH ROOM.
- FURNISH AND INSTALL 3" CW, 2 1/2" HW AND 1" HWR PIPING UP TO SERVE LEVEL 2. ALIGN PIPE WITH WALL ABOVE.
- FURNISH AND INSTALL 1/2" CW, 1/2" HW AND 2" VENT DOWN IN WALL TO SERVE FIXTURES.
- BREAK-ROOM SINKS ARE TO BE SERVED FROM WATER, WASTE AND VENT PIPING IN TOILET ROOM CHASE.
- EMERGENCY SHOWER TO BE SERVED WITH FIELD FURNISHED AND INSTALLED 1" TEMPERED WATER TO SHOWER HEAD FROM WALL RECESSED CABINET. EYEWASH PORTION OF ASSEMBLY WILL REQUIRE 2" WASTE AND 2" VENT TYPICAL FOR ALL INSTALLATIONS. REFER TO DRAWING P0403, DETAIL 3/P0403.
- WALL RECESSED CW AND HW HOSE STATION. SERVE WITH 1/2" CW AND 1/2" HW FROM CLINICAL SINK. COORDINATE LOCATION AND MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH IN.
- PIPING IN EACH ROOM SHALL BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN.
- NOT USED.
- PIPING IN CORRIDOR TO BE AT BOTTOM OF STRUCTURAL STEEL CROSS MEMBERS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN.
- 4" GALVANIZED DOMESTIC WATER TO DOMESTIC WATER BACKFLOW PREVENTER.
- DROP PIPING DOWN TO BELOW STRUCTURAL STEEL MEMBER. HOLD TIGHT TO BOTTOM OF STEEL.
- DOMESTIC WATER SERVICE BACK FLOW PREVENTER. REFER TO DRAWING P0501, DETAIL 6/P0501.
- HOT WATER RETURN CIRCUIT SETTER VALVE. LOCATE IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. REFER TO DRAWING P0502, DETAIL 11/P0502.
- REFER TO DRAWING P0403, DETAIL 2/P0403 FOR HOT WATER HEATER PIPING DIAGRAM.
- 2" DOMESTIC WATER SERVICE DOWN TO LEVEL 0. REFER TO DRAWING P0011 FOR CONTINUATION.
- 8" GALVANIZED WATER SERVICE DOWN FOR FIRE SERVICE.
- REFER TO DRAWING P0402, DETAIL 1 FOR RISER DIAGRAMS.
- REFER TO DRAWING P0402, DETAIL 2 FOR RISER DIAGRAMS.
- REFER TO DRAWING P0401 FOR PUBLIC TOILET ROOM RISER DIAGRAMS.
- REFER TO DRAWING P0405 FOR WATER SUPPORT RISER 1.
- 4" DOMESTIC WATER SERVICE VALVE.
- 4" C.I. STANDPIPE FOR SPRINKLER DRAINAGE. STUB 24" AFF.

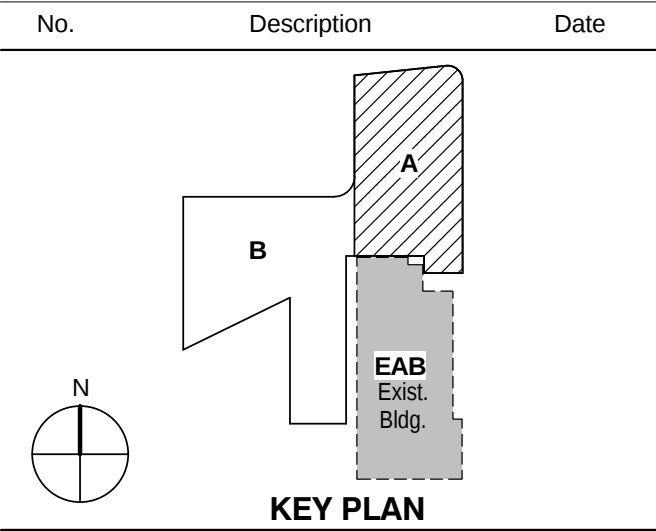
KEYED NOTES: (THIS SHEET ONLY)

- 1 PIPING IN EACH ROOM TO BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 2 1/2" CW, 1/2" HW AND 2" VENT DOWN IN WALL TO SERVE FIXTURE.
- 3 BREAKROOM SINKS ARE TO BE SERVED FROM WATER, WASTE AND VENT PIPING IN TOILET ROOM CHASE.
- 4 PROVIDE SHUT-OFF VALVES AT THE ENTRY TO EACH ROOM.
- 5 EMERGENCY SHOWER TO BE SERVED WITH FIELD FURNISHED AND INSTALLED 1" TEMPERED WATER TO SHOWER HEAD FROM WALL RECESSED CABINET. EYEWASH PORTION OF ASSEMBLY TO 2" WASTE AND 2" VENT. TYPICAL FOR ALL INSTALLATIONS. REFER TO DRAWING P0403, DETAIL 4.
- 6 DECK MOUNTED EMERGENCY EYEWASH TO BE LOCATED AT SINK. INSTALL THERMOSTATIC MIXING VALVE IN CABINET SPACE BELOW THE SINK. COORDINATE MOUNTING REQUIREMENTS OF EYEWASH AND TMV WITH THE GENERAL CONTRACTOR. TYPICAL FOR ALL INSTALLATION. REFER TO DRAWING P0403, DETAIL 3.
- 7 DROP PIPING DOWN TO BELOW STRUCTURAL STEEL MEMBER. HOLD TIGHT TO BOTTOM OF STEEL.
- 8 PIPING IN CORRIDOR TO BE RUN AT BOTTOM OF STRUCTURAL STEEL CROSS MEMBERS. COORDINATE INSTALLATION WITH AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 9 4" SANITARY VENT RISER UP TO SERVE WATER CLOSETS, URINALS AND FLOOR DRAINS ON EACH LEVEL.
- 10 4" SANITARY WASTE RISER UP TO SERVE WATER CLOSETS, URINALS AND FLOOR DRAINS ON EACH LEVEL.
- 11 2" SANITARY WASTE RISER UP TO SERVE LAVATORIES ON EACH LEVEL.
- 12 2" SANITARY VENT UP TO LEVEL 4. REFER TO DRAWING P0104.A FOR VENT PIPING TERMINATION.
- 13 FLOOR SINK UNDER COUNTERTOP WITH IN CASEWORK. VERIFY LOCATION WITH EXACT EQUIPMENT PLACEMENT PRIOR TO ROUGH-IN. COORDINATE FLOOR OPENING WITH THE GENERAL CONTRACTOR.
- 14 HOT WATER RETURN CIRCUIT SETTER VALVE. LOCATE IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. REFER TO DRAWING P0502, DETAIL 11.
- 15 NOT USED
- 16 NOT USED
- 17 LAB FAUCET 1/2-2" FOR COLD WATER SERVICE ONLY. PROVIDE TWO FAUCETS FOR EACH CUP SINK. EXTEND CW PIPING WITHIN UTILITY CHASE OF EACH SET OF LAB CASEWORK.
- 18 REFER TO DRAWING P0405 WATER SUPPLY RISER 8.
- 19 REFER TO DRAWING P0407 WATER SUPPLY RISER 2.
- 20 REFER TO DRAWING P0405 WATER SUPPLY RISER 4.
- 23 REFER TO DRAWING P0409 WATER SUPPLY RISER 2.
- 23 REFER TO DRAWING P0409 WATER SUPPLY RISER 4.
- 23 1/2" HW DOWN IN WALL TO SERVE UNDERCOUNTER GLASS WASHER. VERIFY CONNECTION POINT TO UNIT AND LOCATION. PROVIDE ALL FITTINGS AS REQUIRED.



1 LEVEL 04 AREA A FLOOR PLAN - PLUMBING
1/8" = 1'-0"

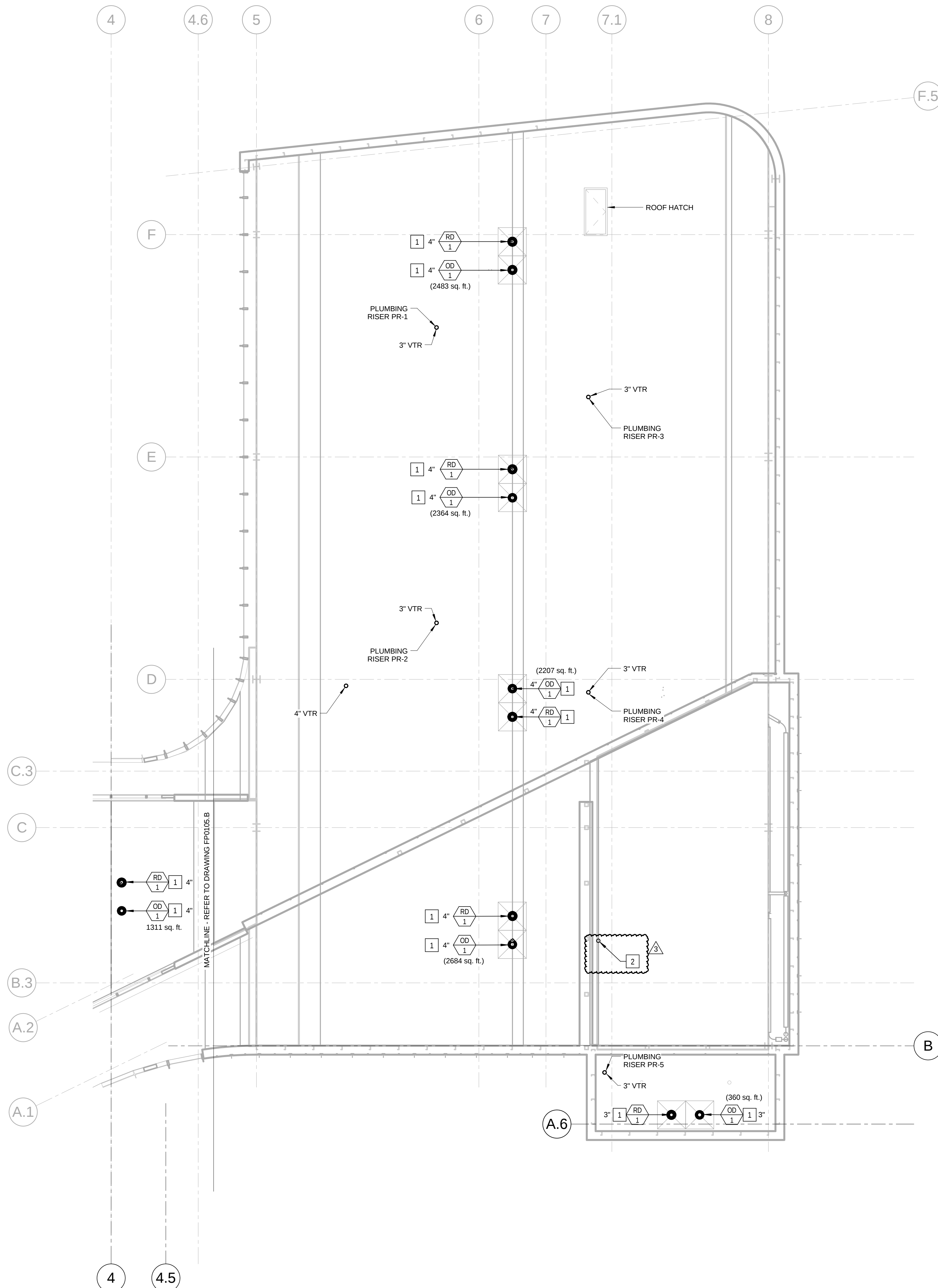
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4	ASI - 019 (RFI-193,208 & 212)	29 JUL 2016
3	ADDENDUM 2-4	24 MAY 2015
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



LEVEL 04 AREA A FLOOR
PLAN - PLUMBING

Project No.: 04561.01 Checked by:

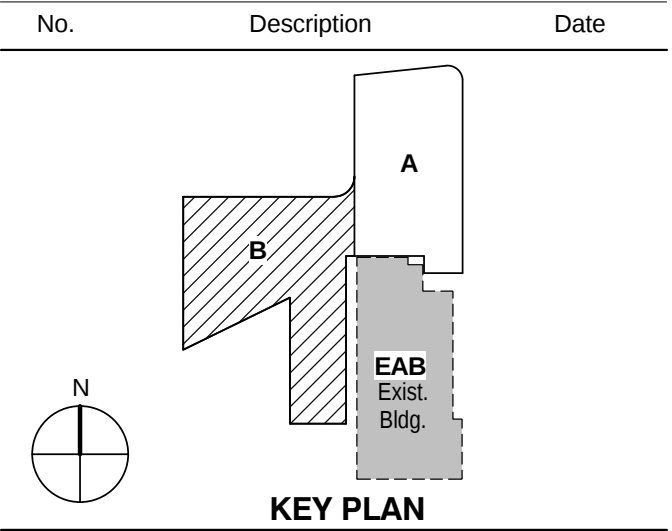
P0104.A



NOTE - PLUMBING NEW WORK

1. CONTRACTOR SHALL FURNISH AND INSTALL ROOF DRAINS AND OVERFLOW DRAINS. REFER TO DETAIL ON DRAWING P0601.
2. 3/4\"/>

3	ASI - 024 (RFI 222,233,235 & 236)	24 AUG 2016
2	ADDENDUM 2-4	24 MAY 2016
1	ADDENDUM 2-2	19 APR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

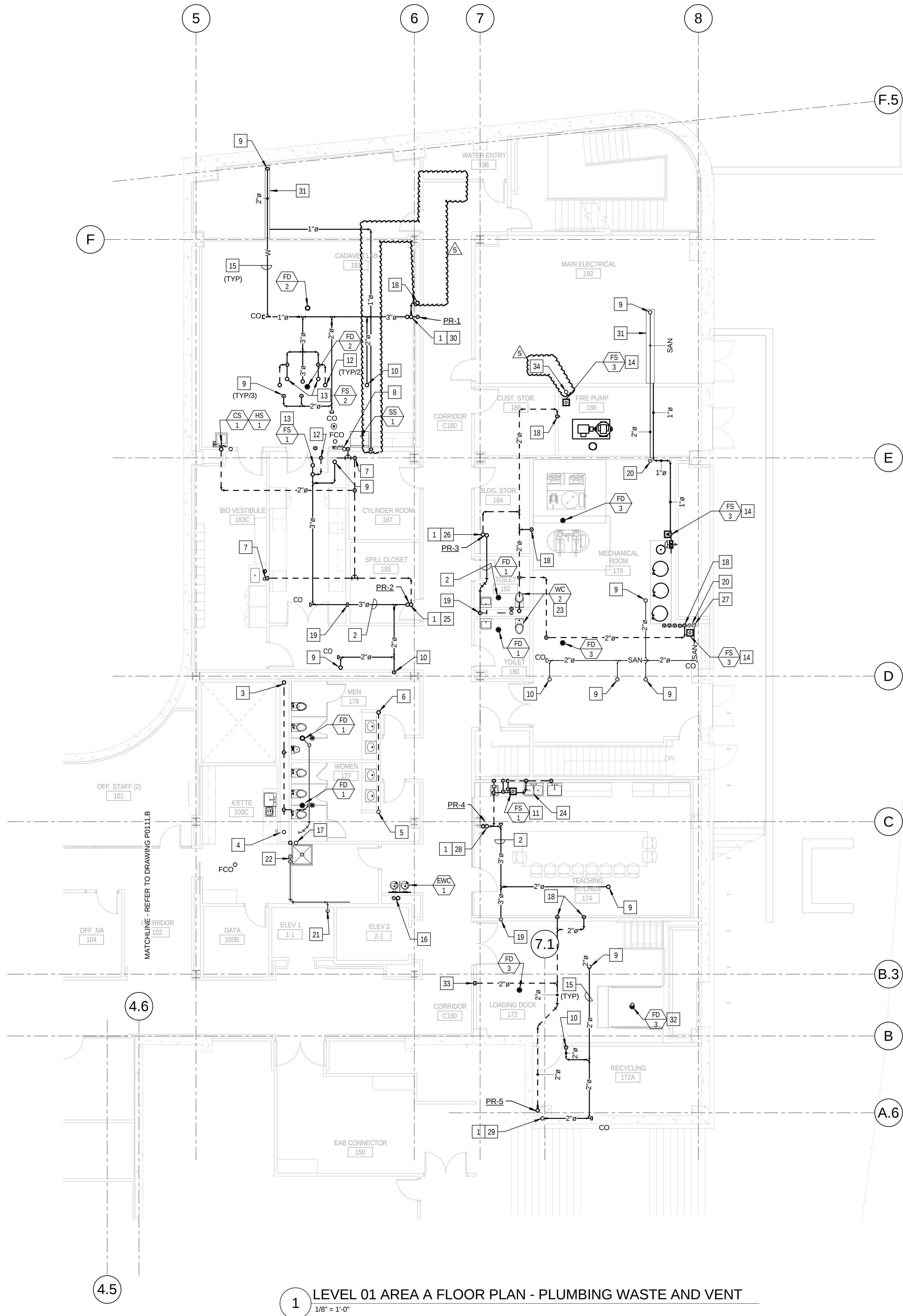


KEY PLAN

LEVEL 05 ROOF PLAN
AREA A - PLUMBING

Project No.: 04561.01 Checked by:

P0105.A

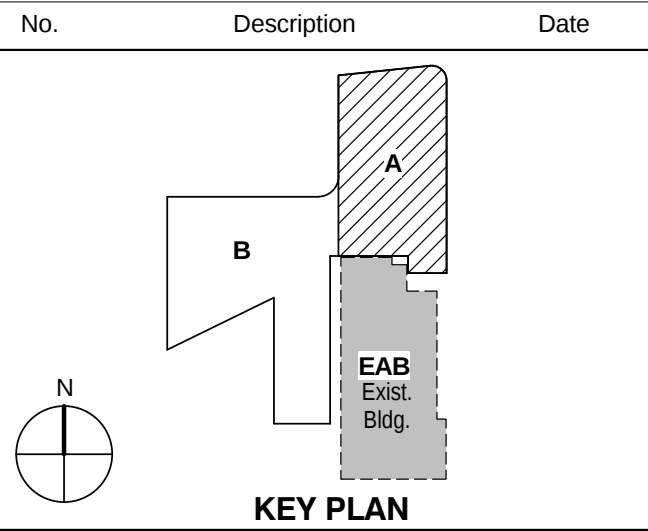


KEYED NOTES: (THIS SHEET ONLY)

- 1 3" SANITARY WASTE AND 3" SANITARY VENT RISERS.
- 2 3" SANITARY WASTE OFF-SET ABOVE THE CEILING TO CONTINUE DOWN TO LEVEL 0.
- 3 4" SANITARY VENT RISER UP AND DOWN.
- 4 4" SANITARY WASTE UP AND DOWN. REFER TO DRAWING P0401 FOR RISER DIAGRAM.
- 5 2" SANITARY WASTE UP AND DOWN. REFER TO DRAWING P0401 FOR RISER DIAGRAM.
- 6 2" SANITARY VENT UP AND DOWN.
- 7 2" SANITARY VENT DOWN IN WALL TO SERVE LABORATORY SINK.
- 8 2" SANITARY VENT DOWN IN WALL TO SERVE EMERGENCY SHOWER.
- 9 2" SANITARY WASTE UP TO LEVEL 2 LAB SINK.
- 10 2" SANITARY WASTE UP TO LEVEL 2 EMERGENCY SHOWER EYE/FACE WASH STATION. REFER TO DRAWING P0403 DETAIL 3/ P0403.
- 11 FLOOR SINK TO BE LOCATED BELOW THE CASEWORK TO ACCEPT DISCHARGE FROM THE DISHWASHER AND UNDER COUNTER ICE MAKER. COORDINATE LOCATION WITH CABINET AND APPLIANCES.
- 12 2" SANITARY VENT UP TO LEVEL 2, ALIGN WITH CASEWORK AND WALL ABOVE.
- 13 FLOOR SINK SET TO SERVE LEVEL 2. COORDINATE LOCATION OF FLOOR SINK WITH CASEWORK ABOVE AND WITH ABOVE CEILING CONDITIONS ON THIS LEVEL.
- 14 FLOOR SINK SET TO SERVE THIS LEVEL.
- 15 PIPING IN EACH ROOM TO BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 16 2" SANITARY WASTE AND 2" SANITARY VENT RISERS TO SERVE ELECTRIC WATER COOLERS ON EACH LEVEL. REFER TO DRAWING P0401 FOR WASTE AND VENT RISERS.
- 17 3" SANITARY WASTE AND 2" VENT RISERS TO SERVE MOP BASINS ON LEVELS 1 AND 3 AND COUNTERTOP SINK ON LEVEL 2. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 18 2" VENT UP FROM LEVEL 0. REFER TO DRAWING P0011.
- 19 3" WASTE DOWN TO LEVEL 0. REFER TO DRAWING P0011 FOR CONTINUATION.
- 20 2" WASTE DOWN TO LEVEL 0. REFER TO DRAWING P0011 FOR CONTINUATION.
- 21 2" DISCHARGE FROM ELEVATOR SUMP PUMP. EXTEND TO ABOVE THE CEILING OF LEVEL 1 TO JANITOR CLOSET 175.
- 22 TERMINATE ELEVATOR SUMP PUMP DISCHARGE AT THE MOP BASIN WITH AN IN-DIRECT WASTE INTO THE BASIN.
- 23 REFER TO DRAWING P0402 DETAIL 2/ P0402, FOR PLUMBING RISER DIAGRAMS.
- 24 REFER TO DRAWING P0402 DETAIL 1/ P0402, FOR PLUMBING RISER DIAGRAMS.
- 25 REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 2-2.
- 26 REFER TO DRAWING P0406 SANITARY WASTE AND VENT RISER DIAGRAM 3-2.
- 27 REFER TO DRAWING P0406 SANITARY WASTE AND VENT RISER DIAGRAM 3-4.
- 28 REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 4-1.
- 29 REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 5-1.
- 30 REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 1-1.
- 31 TROUGH SAFETY PAN TO BE SUSPENDED BELOW SANITARY WASTE PIPING. EXTEND 1" DRAIN TO SANITARY FLOOD RECEPTOR. REFER TO PLUMBING DRAWING P0503, DETAIL 4.

- 32 NOT USED.
- 33 2" VENT DOWN IN WALL TO SERVE FLOOR DRAIN IN LOADING DOCK.
- 34 4" C.I. STANDPIPE FOR SPRINKLER DRAIN, STUD 24" AFF.

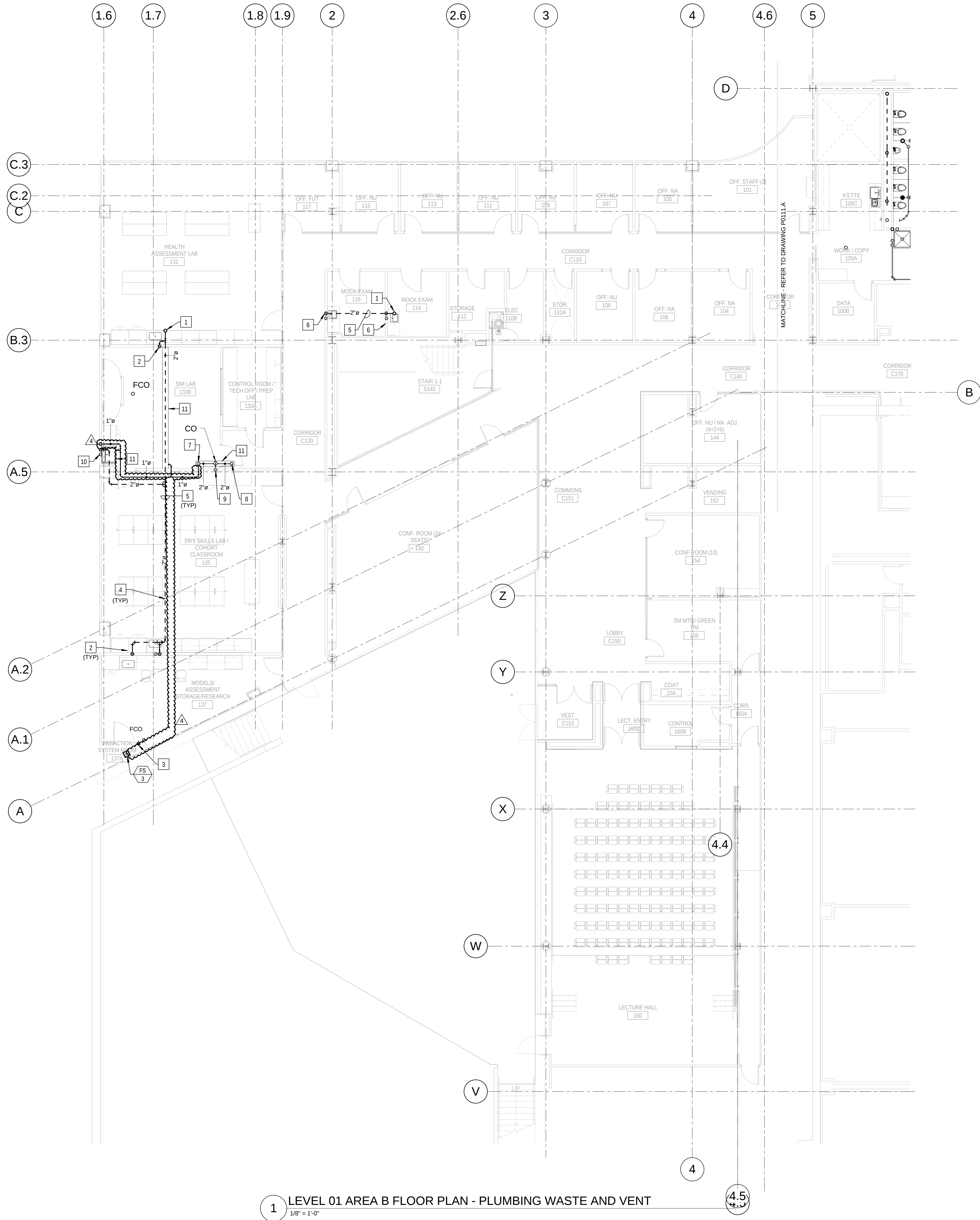
5	ASI - 024 (RFI 222,233,235 & 236)	24 AUG 2016
4	ASI - 014 (RFI-176)	21 JUL 2016
3	ADDENDUM 2-4	24 MAY 2015
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



**LEVEL 01 AREA A FLOOR
PLAN - PLUMBING WASTE
AND VENT**

Project No.: 04561.01 Checked by:

P0111.A

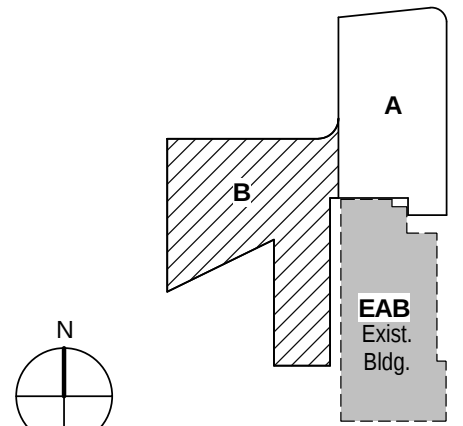


KEYED NOTES: (THIS SHEET ONLY)

- 1 2" SANITARY VENT UP TO LEVEL 2, ALIGN WITH WALLS ABOVE. REFER TO DRAWING P0112.B FOR CONTINUATION.
 - 2 2" SANITARY VENT DOWN IN WALL TO SERVE LAB SINK.
 - 3 2" SANITARY VENT IN WALL FROM UNDERFLOOR SERVING FLOOR SINK. COORDINATE ROUTING AND INSTALLATION WITH WALL CONSTRUCTION.
 - 4 HOLD PIPING TIGHT TO BOTTOM OF STRUCTURAL STEEL.
 - 5 PIPING IN EACH ROOM TO BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
 - 6 2" SANITARY VENT DOWN IN WALL TO SERVE EXAM ROOM SINKS.
 - 7 2" SANITARY WASTE UP TO LEVEL 2 TO SERVE LAB SINK. ALIGN WITH WALL ABOVE. REFER TO DRAWING P0112.B FOR CONTINUATION.
 - 8 2" SANITARY WASTE UP TO LEVEL 2 EMERGENCY SHOWER EYE/FACE WASH STATION. ALIGN WITH WALL ABOVE. REFER TO DRAWING P0112.B FOR CONTINUATION.
 - 9 2" SANITARY WASTE DOWN IN WALL TO UNDERFLOOR. REFER TO DRAWING P0011 FOR CONTINUATION.
 - 10 2" SANITARY VENT DOWN IN WALL TO SERVE SURGICAL SCRUB SINK.
- SHEET METAL TROUGH BELOW PIPING. REFER TO DETAIL 4 ON DRAWING P0503. EXTEND DRAIN AS INDICATED AND TERMINATE AT FLOOR SINK.

4	ASI - 024 (RFI 222.233.235 & 236)	24 AUG 2016
3	ASI - 013 (RFI 110.153.161 & 178)	17 JUL 2016
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

No.	Description	Date
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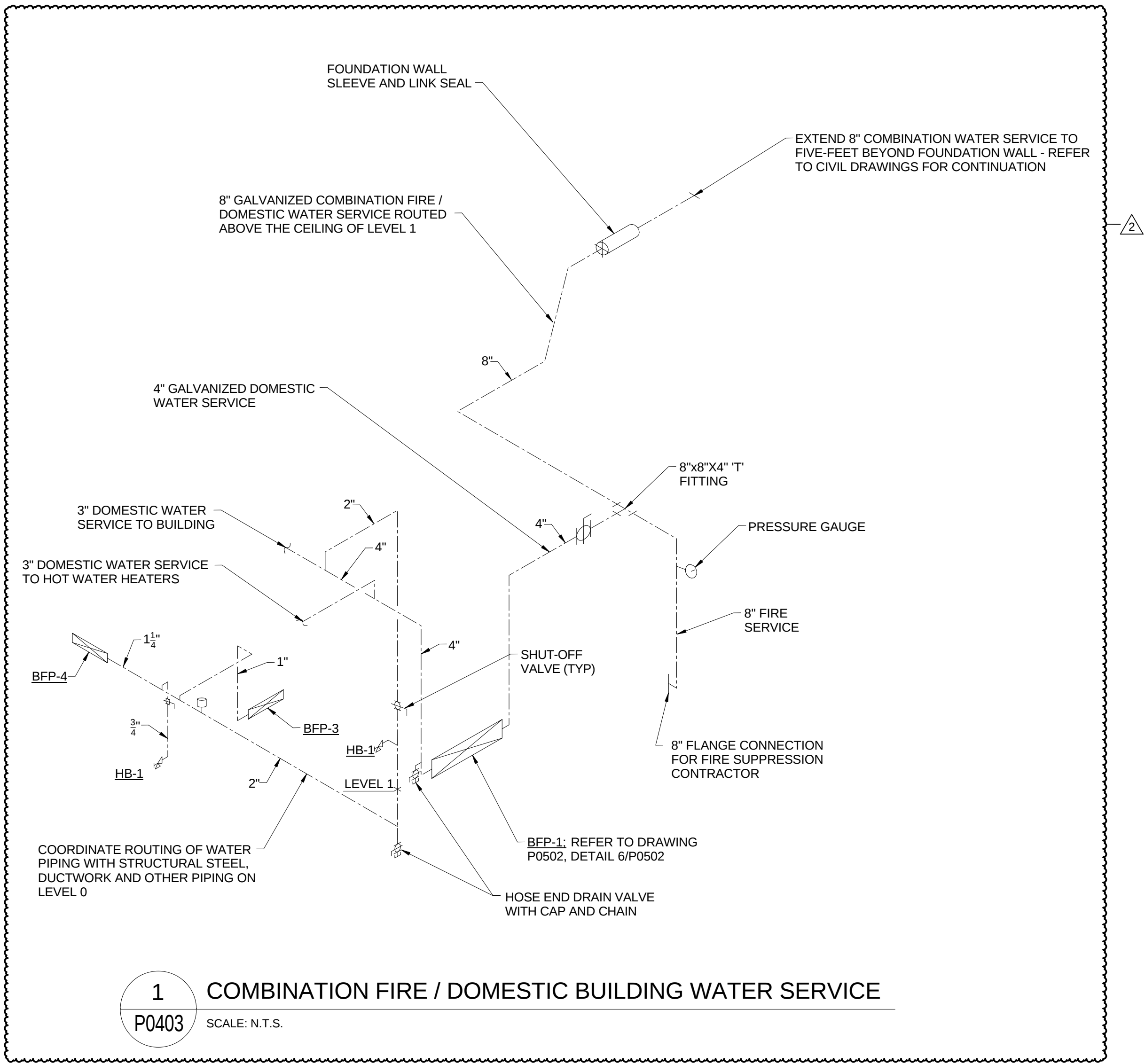
KEY PLAN

Drawing Title:

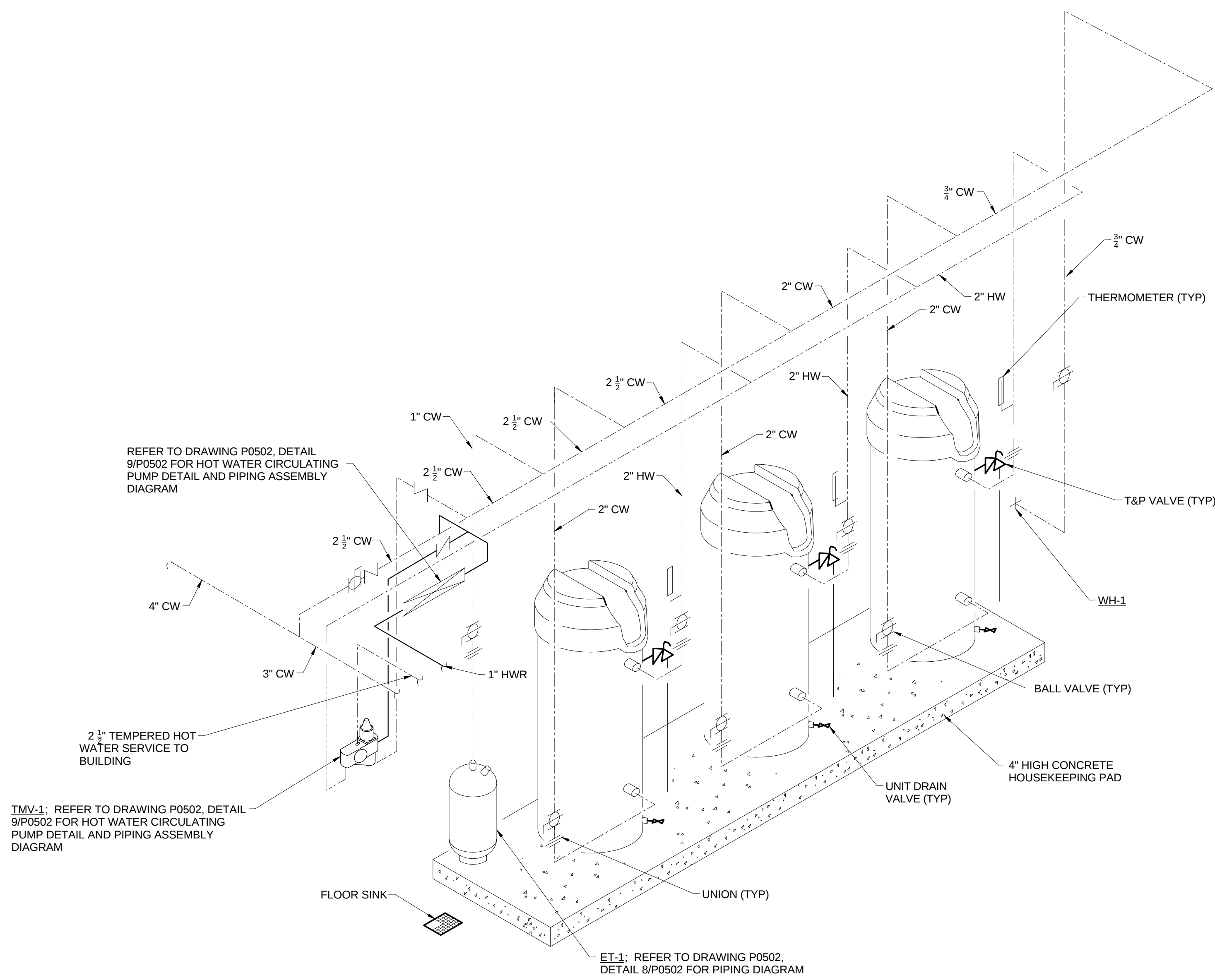
**LEVEL 01 AREA B FLOOR
PLAN - PLUMBING WASTE
AND VENT**

Project No.: 04561.01 Checked by:

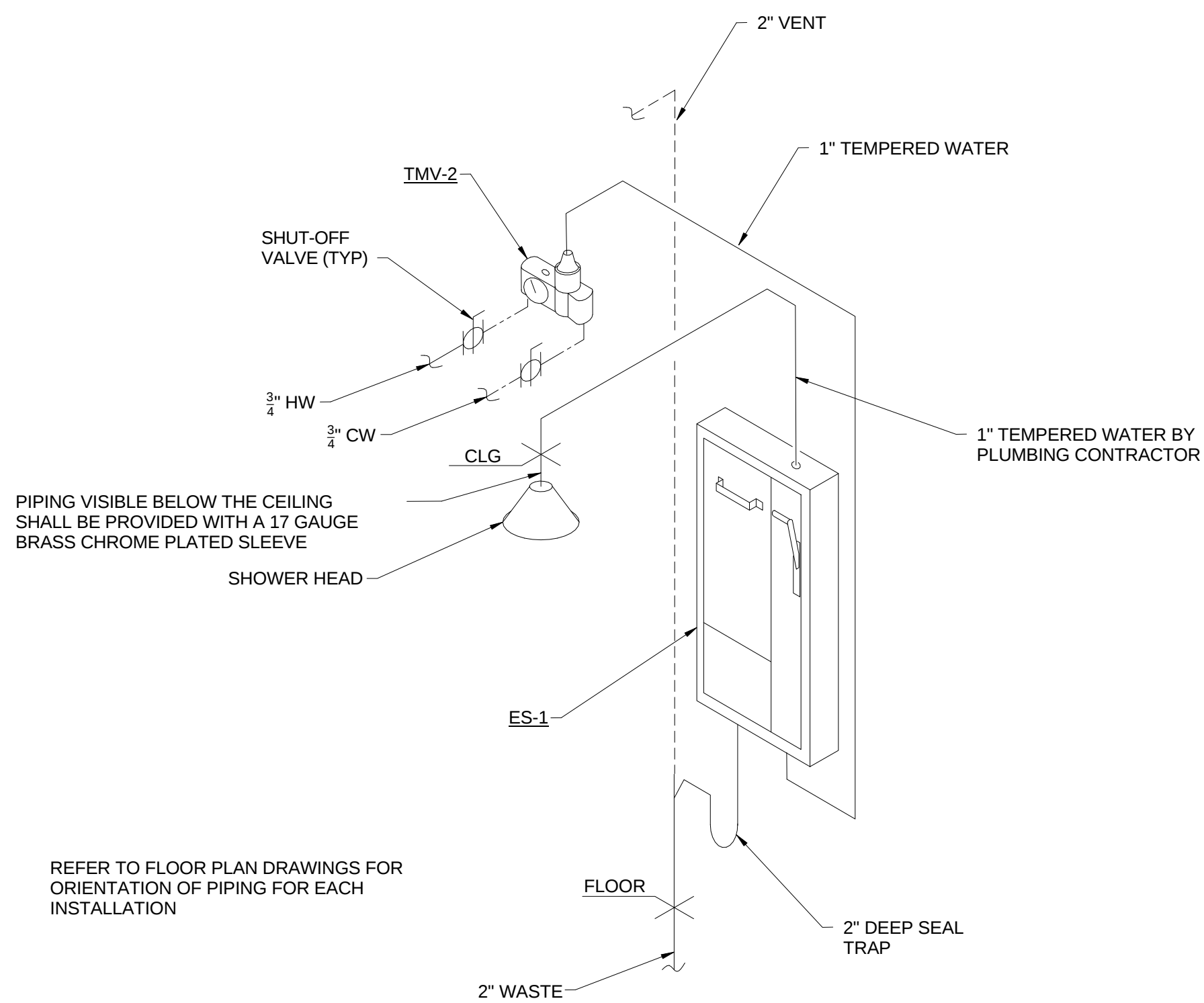
P0111.B



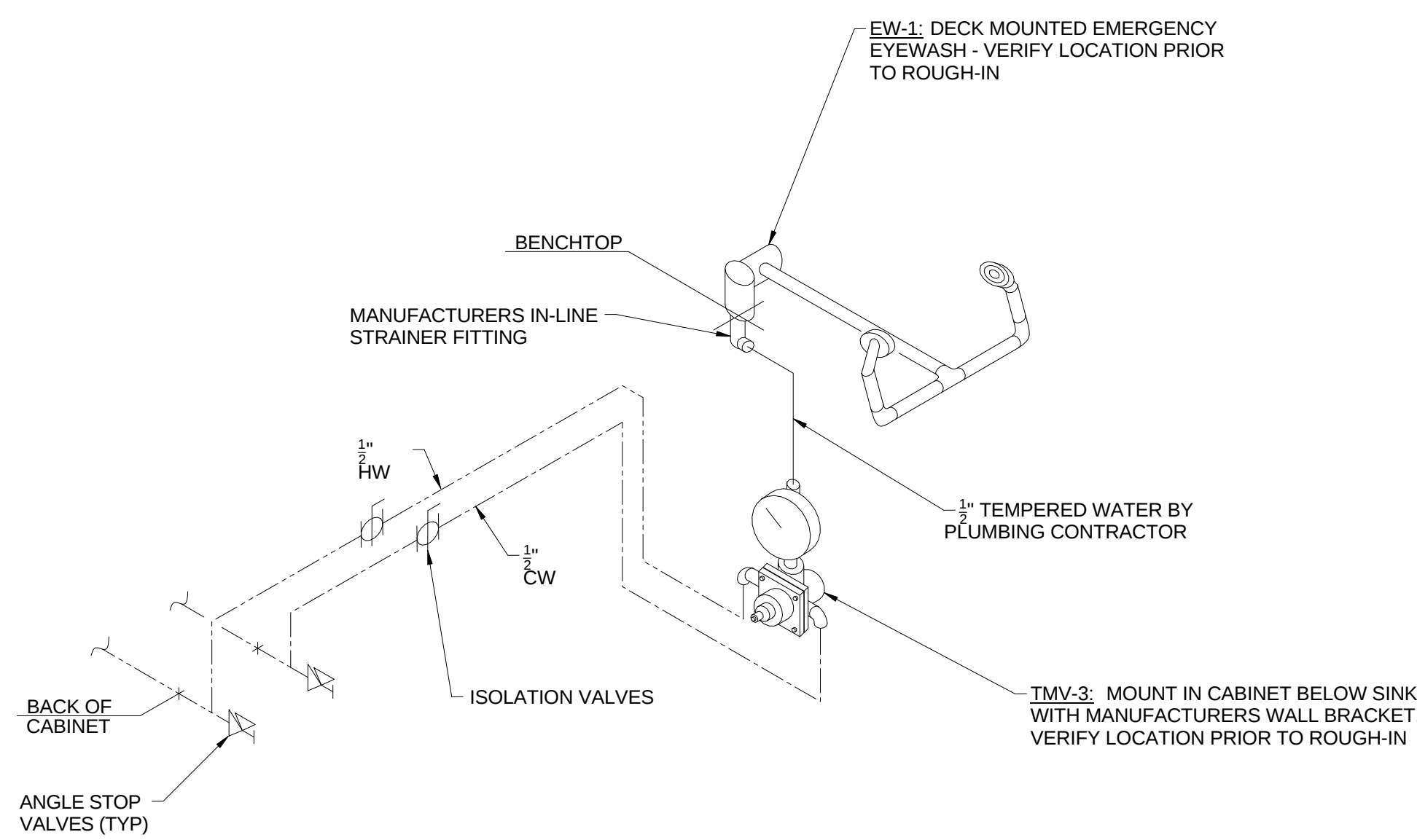
1 COMBINATION FIRE / DOMESTIC BUILDING WATER SERVICE
P0403 SCALE: N.T.S.



2 DOMESTIC HOT WATER HEATER RISER / PIPING DIAGRAM
P0403 SCALE: N.T.S.



3 TYPICAL EMERGENCY SHOWER PIPING DIAGRAM
P0403 SCALE: N.T.S.



4 TYPICAL EMERGENCY EYEWASH PIPING DIAGRAM
P0403 SCALE: N.T.S.