

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 051

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 03/10/2017

Contract Date:

Reason Code: 06 Owner Scope

Discipline Code: 09&11 Mechanical & Plumbing

St. Louis
Baltimore
Boston
Buffalo
Calgary
Chicago
Houston
Los Angeles
Mumbai
New York
Phoenix
San Francisco
Shanghai
Toronto
Vancouver
Victoria
Washington DC

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:

Sheets M0104.A, M0105.A, P0114.A, P0404, & P0406

Architect's Supplemental Instructions

Page 2

Description:

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

ASI-051 is being issue for the purpose of providing a mechanical equipment condensate drain connection to the plumbing waste system.

SHEET M0104.A – LEVEL 04 AREA A FLOOR PLAN – MECHANICAL

- Route drain line from HEF-1 on roof to acid neutralization tank in Room 488.
- Added notes M74 and M75.

SHEET M0105.A – ROOF PLAN – MECHANICAL

- Added drain lines down through roof from HEF-1.
- Added note M73.

SHEET P0114.A – LEVEL 04 AREA A FLOOR PLAN – PLUMBING WASTE AND VENT

- Added key note 24 to modify waste piping in Chem. Lab – Analyt./ Inorganic 488, at lab sink along column line 'E'.

SHEET P0404 - RISERS PLUMBING

- Added riser diagram 3.

SHEET P0406 – RISERS PLUMBING

- Modified riser 3-4, added key note 25.

Issued by Architect: Mike Nolte, William Tao & Associates, Inc.
Michael Whitworth, Webb Engineering Services, Inc.

Accepted by Contractor:

GENERAL NOTES:

- A. Because of the limited space available to install all of the mechanical work, coordination between the various trades is of the utmost importance. This contractor shall coordinate with all other trades prior to the fabrication and installation of any work.
- B. Refer to the reflected ceiling plans for ceiling construction, ceiling grid layout, ceiling mounted devices, and coordinate exact location and mounting type of all air devices.
- C. All ductwork upstream of terminal units shall be Medium Pressure (MP). All ductwork downstream of terminal units shall be Low Pressure (LP). Refer to specifications.
- D. All ductwork dimensions indicated on plans are sheet metal sizes. All medium pressure ductwork shall be unlined, externally insulated. All low pressure ductwork shall be lined. See specifications.
- E. All mitered 90° rectangular elbows shall be furnished with turning vanes having maximum c = 0.12. All smooth radius rectangular elbows shall have a throat radius greater than one half the duct width, unless furnished with splitter vanes. Under no circumstances shall the throat radius be less than one third the duct width. Unless otherwise noted or specified.
- F. Contractor shall furnish and install volume dampers for each duct take-off unless otherwise noted. See detail.
- G. Maximum length of Low Pressure (LP) flexible ductwork shall be 8'-0". Round LP duct of lengths greater than 8'-0" shall be rigid round. Flexible duct sizes on plans shall be neck size of diffusers or as indicated. See specifications.
- H. Maximum length of Medium Pressure (MP) flexible ductwork shall be 2'-0". Round MP duct of lengths greater than 2'-0" shall be rigid round. Flexible duct sizes on plans shall be air Terminal Unit inlet size or as indicated. See specifications.
- I. All ductwork runouts to Air Terminal Units and diffusers shall be the connection size unless otherwise noted.
- J. Piping runouts to terminal units shall be 3/4" unless otherwise noted. Refer to reheat box schedule.
- K. Verify exact location of thermostats, humidistats, BAS sensors, and other exposed control sensors with architectural elevations and drawings before installation.
- L. Schedule systems or equipment shut downs required for new construction with owner two weeks in advance. Some premium time work may be required.
- M. Refer to piping details for final connections to equipment.
- N. Provide service shut-off valves in major piping branch lines. All connections to risers and each building wing: A & B.

KEYED NOTES

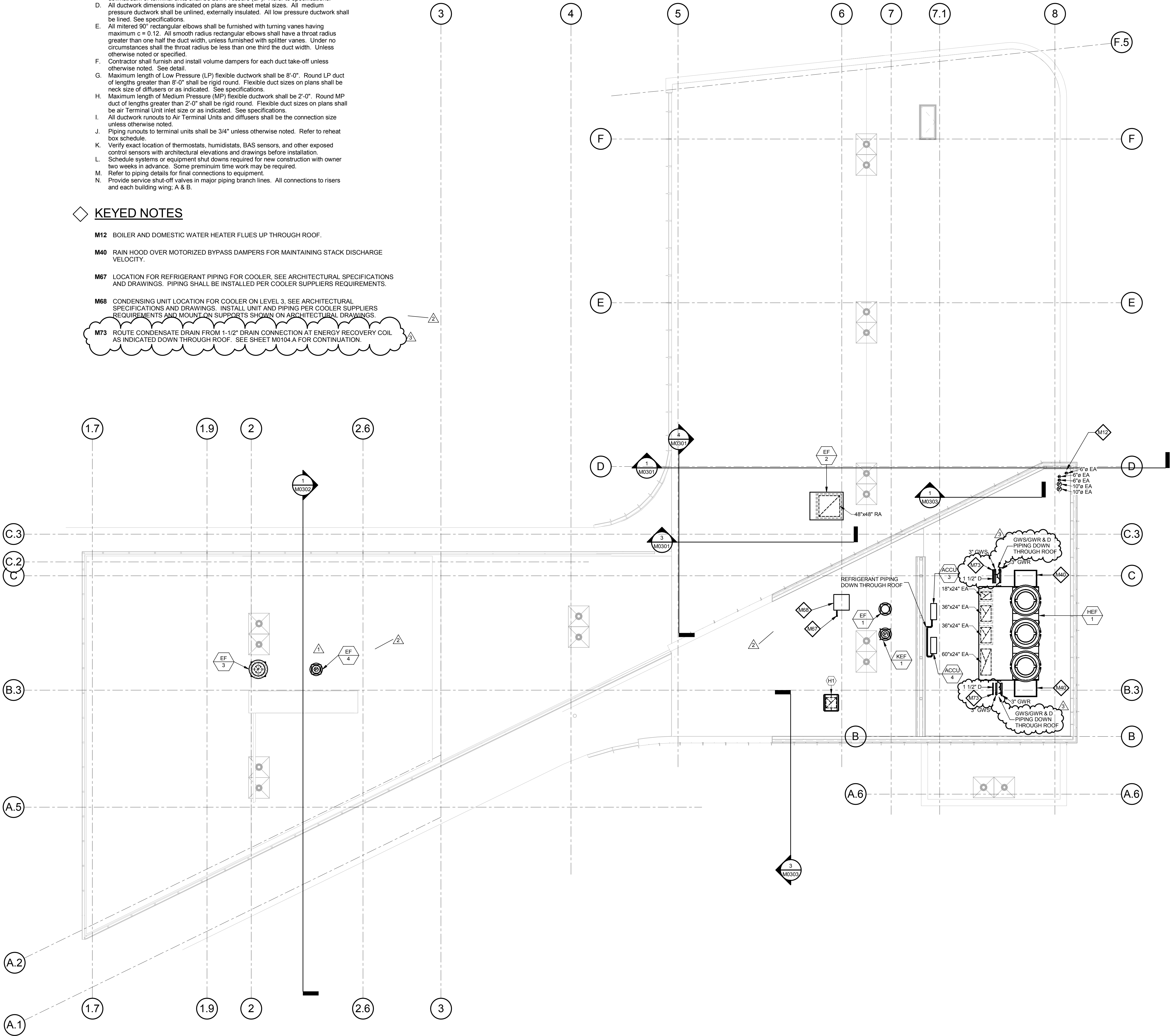
M12 BOILER AND DOMESTIC WATER HEATER FLUES UP THROUGH ROOF.

M40 RAIN HOOD OVER MOTORIZED BYPASS DAMPERS FOR MAINTAINING STACK DISCHARGE VELOCITY.

M67 LOCATION FOR REFRIGERANT PIPING FOR COOLER, SEE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS. PIPING SHALL BE INSTALLED PER COOLER SUPPLIERS REQUIREMENTS.

M68 CONDENSING UNIT LOCATION FOR COOLER ON LEVEL 3, SEE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS. INSTALL UNIT AND PIPING PER COOLER SUPPLIERS REQUIREMENTS AND MOUNT ON SUPPORTS SHOWN ON ARCHITECTURAL DRAWINGS.

M73 ROUTE CONDENSATE DRAIN FROM 1-1/2" DRAIN CONNECTION AT ENERGY RECOVERY COIL AS INDICATED DOWN THROUGH ROOF. SEE SHEET M0104.A FOR CONTINUATION.



ROOF LEVEL - MECHANICAL

1/8" = 1'-0"

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Interdisciplinary Science
Building

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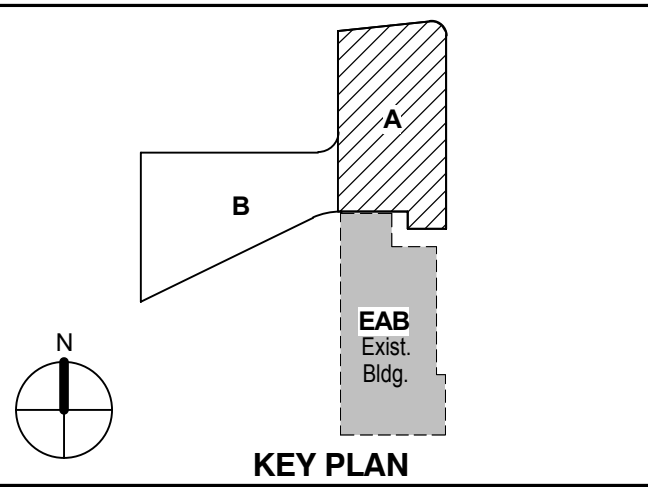
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3	ASH-051	07 MAR 2017
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



Drawing Title:

ROOF PLAN -
MECHANICAL

Project No.: 04561.01 Checked by:

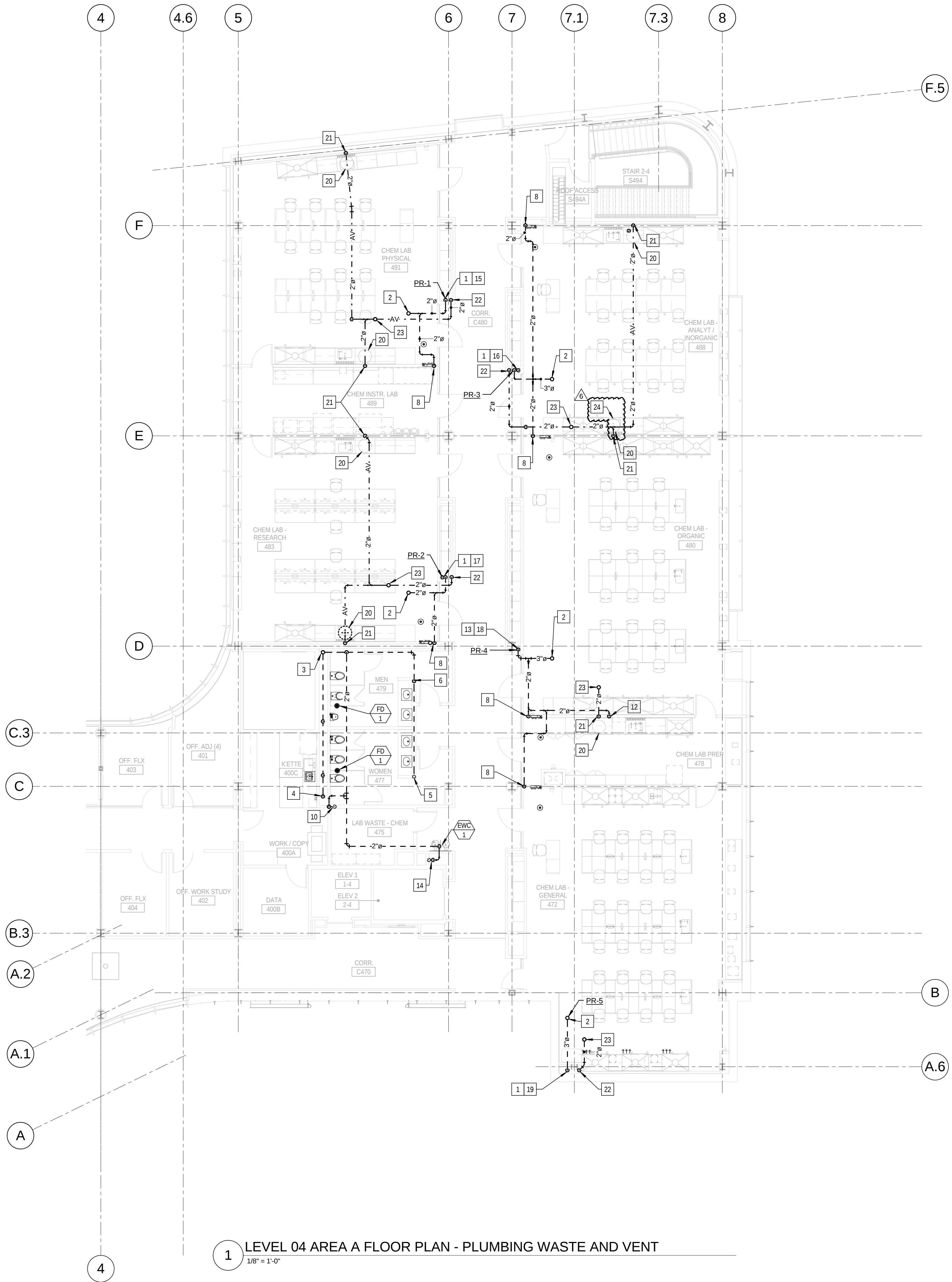
M0105.A

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KEYED NOTES: (THIS SHEET ONLY)

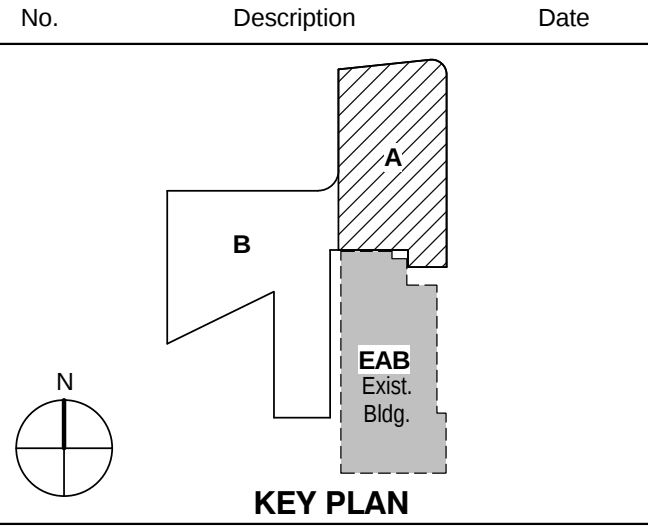
- 1 3" SANITARY WASTE DOWN AND 3" SANITARY VENT UP
- 2 3" SANITARY VENT UP, 3" VTR.
- 3 4" SANITARY VENT RISER, EXTEND FULL SIZE THROUGH THE ROOF.
- 4 4" SANITARY WASTE DOWN, 4" SANITARY VENT UP, EXTEND IN CHASE FULL SIZE TO VENT STACK. REFER TO DRAWING P0401 FOR RISER DIAGRAMS.
- 5 2" SANITARY WASTE DOWN, 2" SANITARY VENT UP, EXTEND IN CHASE FULL SIZE TO VENT STACK. REFER TO DRAWING P0401 FOR RISER DIAGRAMS.
- 6 2" SANITARY VENT UP TO ABOVE THE CEILING, EXTEND AS SHOWN.
- 7 NOT USED.
- 8 2" SANITARY VENT DOWN IN WALL TO SERVE EMERGENCY SHOWER.
- 9 NOT USED.
- 10 3" SANITARY WASTE DOWN, 2" SANITARY VENT UP. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 11 FLOOR SINK TO BE LOCATED BELOW THE CASEWORK TO ACCEPT DISCHARGE FROM LAB EQUIPMENT. COORDINATE LOCATION WITH CASEWORK.
- 12 2" SANITARY VENT UP IN WALL.
- 13 2" SANITARY VENT UP FROM LEVEL 3. REFER TO DRAWING P113.A FOR OFF-SET AT LEVEL 3.
- 14 2" SANITARY WASTE DOWN, 2" SANITARY VENT UP. REFER TO DRAWING P0401 FOR WASTE AND VENT RISER.
- 15 REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 1-3.
- 16 REFER TO DRAWING P0406 SANITARY WASTE AND VENT RISER DIAGRAM 3-3.
- 17 REFER TO DRAWING P0404 SANITARY WASTE AND VENT RISER DIAGRAM 2-4.
- 18 REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 4-3.
- 19 REFER TO DRAWING P0408 SANITARY WASTE AND VENT RISER DIAGRAM 5-3.
- 20 5-GALLON NEUTRALIZATION TANK WITH SLIP-ON COVER, LOCATED BELOW THE COUNTERTOP. REFER TO DRAWING P0404, DETAILS 1 AND 2 FOR PIPING DIAGRAM INSTALLATION.
- 21 2" ACID VENT DOWN IN WALL TO SERVE NEUTRALIZATION TANK.
- 22 2" ACID VENT RISER.
- 23 2" ACID VENT UP, 3" AVTR.

24 WASTE PIPING ON IN-LET SIDE OF NEUTRALIZATION TANK TO BE MODIFIED TO ACCEPT 3/4" CONDENSATE DRAIN BY MECHANICAL CONTRACTOR. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR. REFER TO DETAIL 3 ON DRAWING P0404.



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

6	ASI - 051	08 MAR 2017
5	ASI - 025 Neutralization Tanks	09 SEP 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



KEY PLAN
LEVEL 04 AREA A FLOOR PLAN - PLUMBING WASTE AND VENT

Project No.: 04561.01 Checked by:

P0114.A

5	ASI - 051	08 MAR 2017
4	ASI - 033 (RFI 261,286,309 & 310)	03 NOV 2016
3	ASI - 025 Neutralization Tanks	09 SEP 2016
2	ADDENDUM 2-4	24 MAY 2016
1	ADDENDUM 2-2	19 APR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016
No.	Description	Date

Drawing Title:

RISERS - PLUMBING

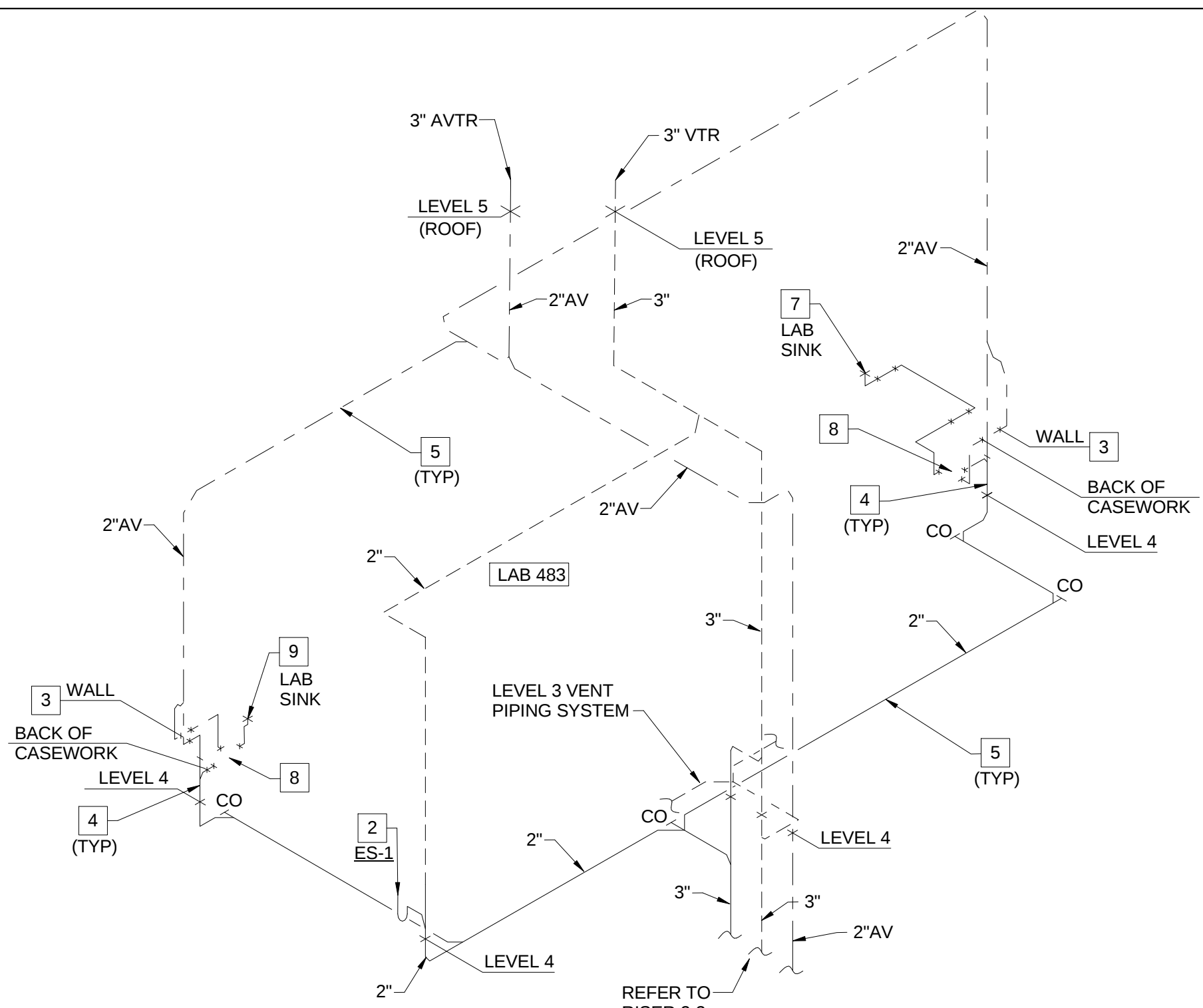
Project No.: 04561.01 Checked by:

P0404

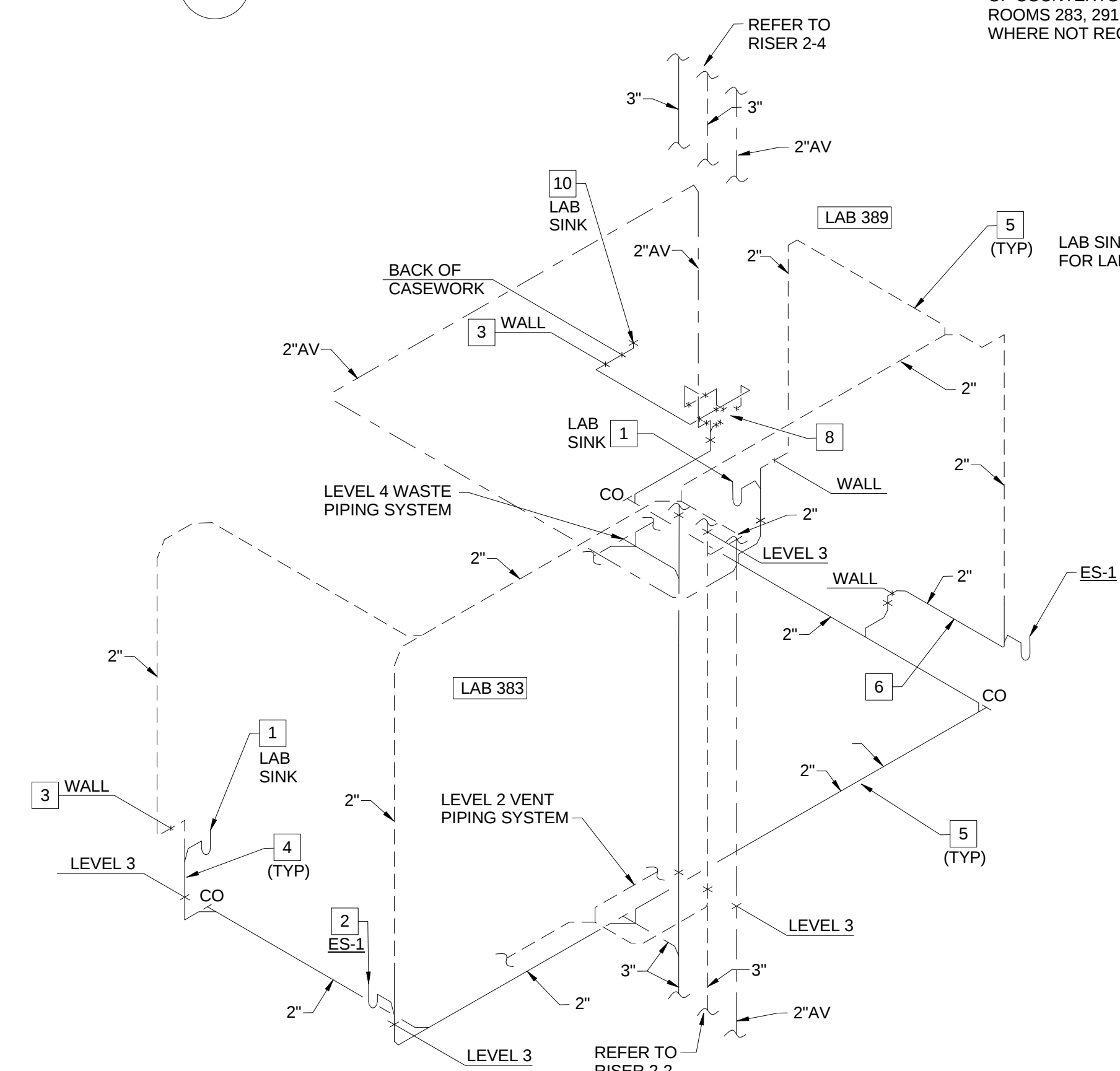
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KEYED NOTES (THIS SHEET ONLY)

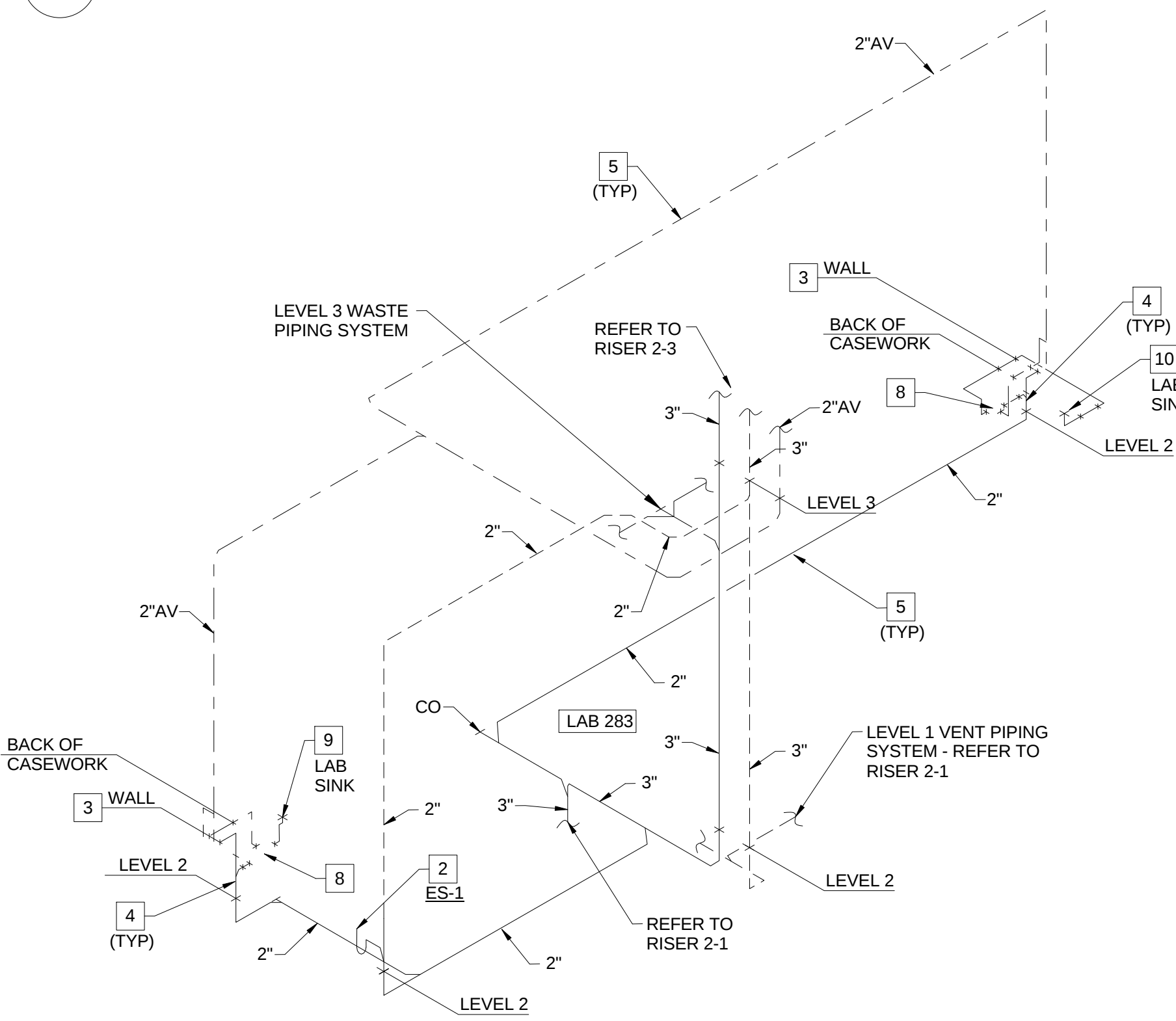
- 1 REFER TO DRAWING P0503, DETAIL 2/P0503 FOR TYPICAL LAB SINK WASTE CONNECTION DETAIL.
- 2 REFER TO DRAWING P0403, DETAIL 3/P0403 FOR TYPICAL EMERGENCY SHOWER PIPING DIAGRAM. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET THE PIPING AS REQUIRED.
- 3 OFF-SET VENT PIPING INTO THE WALL CAVITY TO EXTEND ABOVE THE CEILING. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE.
- 4 WASTE PIPING TO BE LOCATED IN THE UTILITY SPACE BETWEEN THE WALL AND BACK OF CASEWORK. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET PIPING AS REQUIRED. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE.
- 5 COORDINATE ROUTING AND INSTALLATION OF THE WASTE AND VENT PIPING ABOVE THE CEILING WITH STRUCTURAL ELEMENTS AND OTHER TRADES ON THIS PROJECT. HOLD PIPING AS HIGH AS POSSIBLE, WHERE POSSIBLE. TYPICAL FOR ALL ABOVE THE CEILING PIPING.
- 6 EXTEND WASTE FROM EMERGENCY SHOWER HORIZONTAL IN WALL CAVITY TO AN AREA BEHIND THE LABORATORY CASEWORK. TURN PIPING OUT OF WALL WITHIN UTILITY SPACE BEHIND THE CASEWORK TO TURN DOWN THROUGH THE FLOOR. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET PIPING AS REQUIRED.
- 7 LAB SINK TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.
- 8 POINT-OF-USE NEUTRALIZATION TANK. COORDINATE LOCATION AND PLACEMENT WITH WITH CASEWORK. CONSIDERATION SHALL BE GIVEN FOR SERVICE AND MAINTENANCE ACCESSIBILITY.
- 9 LAB SINK TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK BELOW THE SINK. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 2/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.
- 10 LAB SINK AND GLASS WASHER TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.



2-4 SANITARY WASTE AND VENT RISER - LAB 483



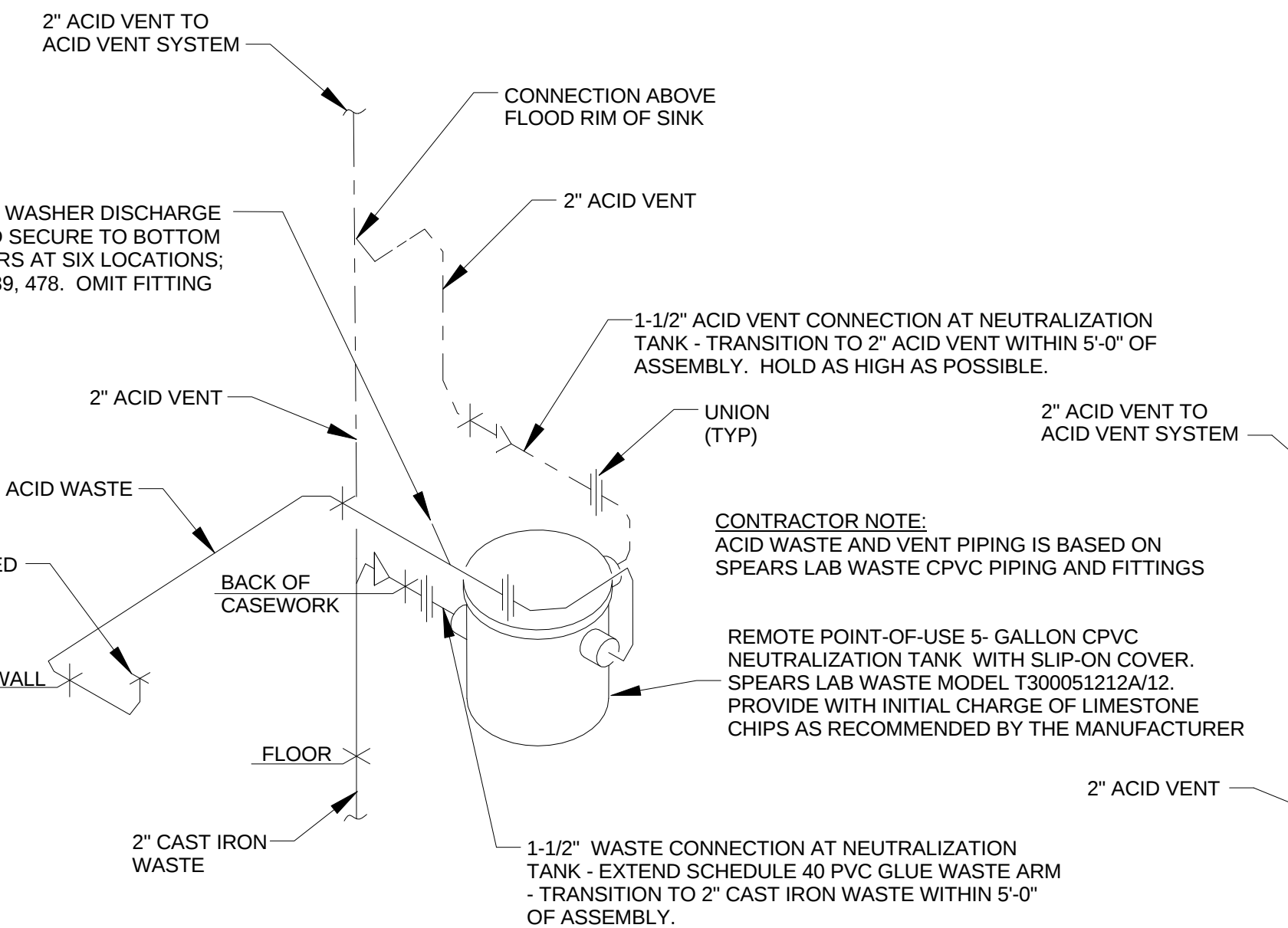
2-3 SANITARY WASTE AND VENT RISER - LAB 383 AND PREP 389



2-2 SANITARY WASTE AND VENT RISER - LAB 283

PLUMBING WASTE AND VENT FOR PLUMBING RISER PR-2

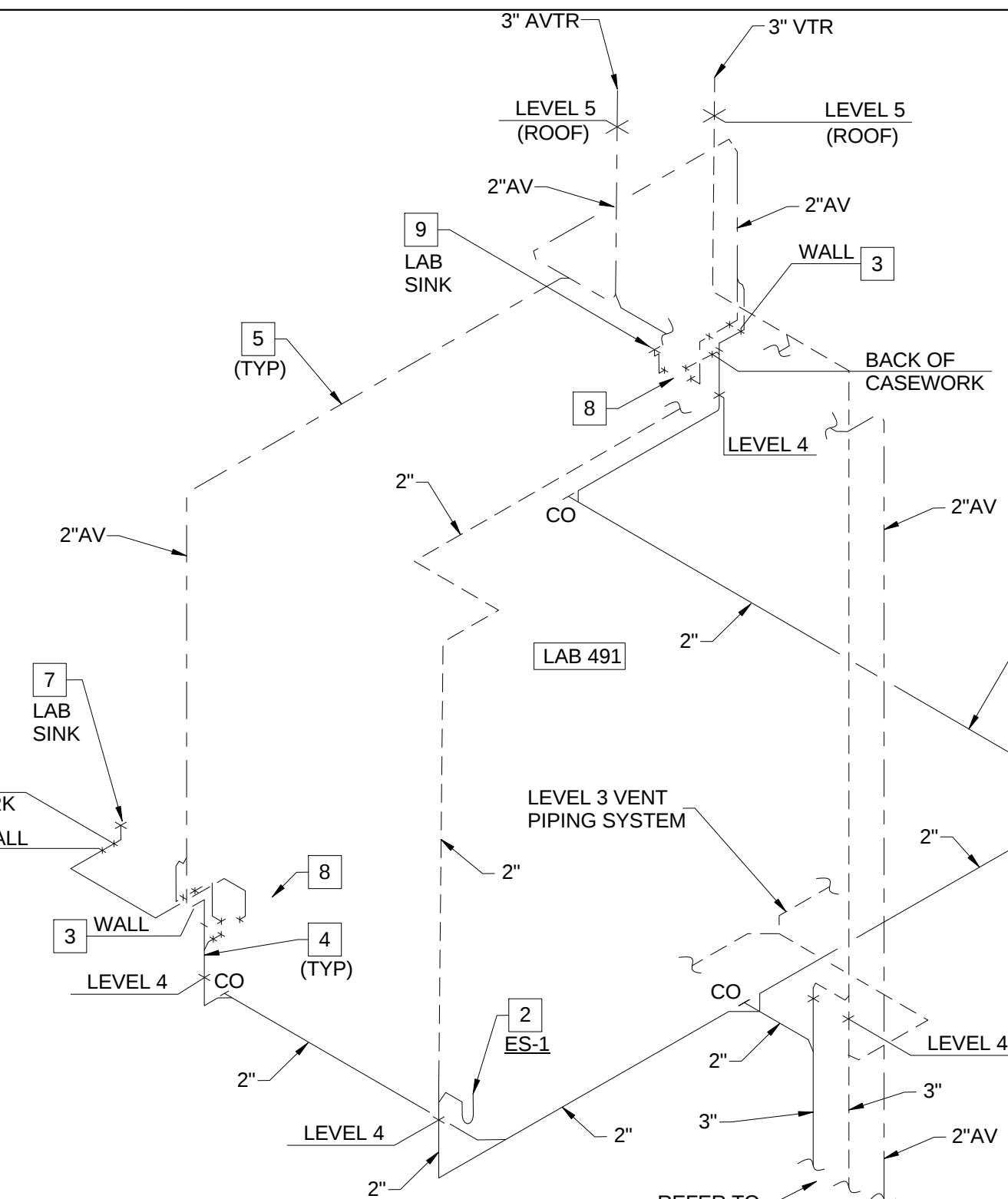
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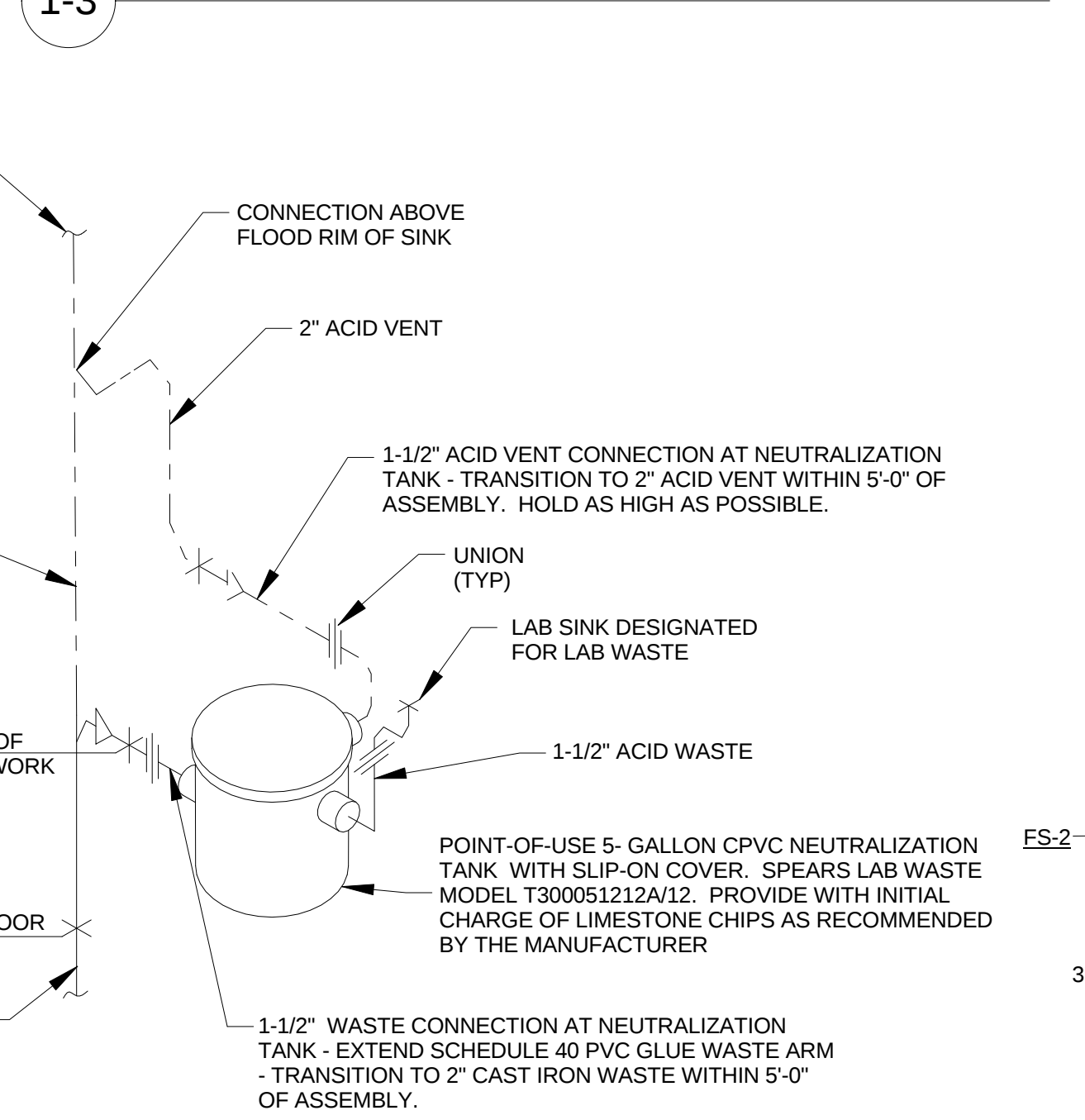
1 TYPICAL NEUTRALIZATION TANK PIPING DIAGRAM FOR REMOTE INSTALLATION

P0404

NO SCALE



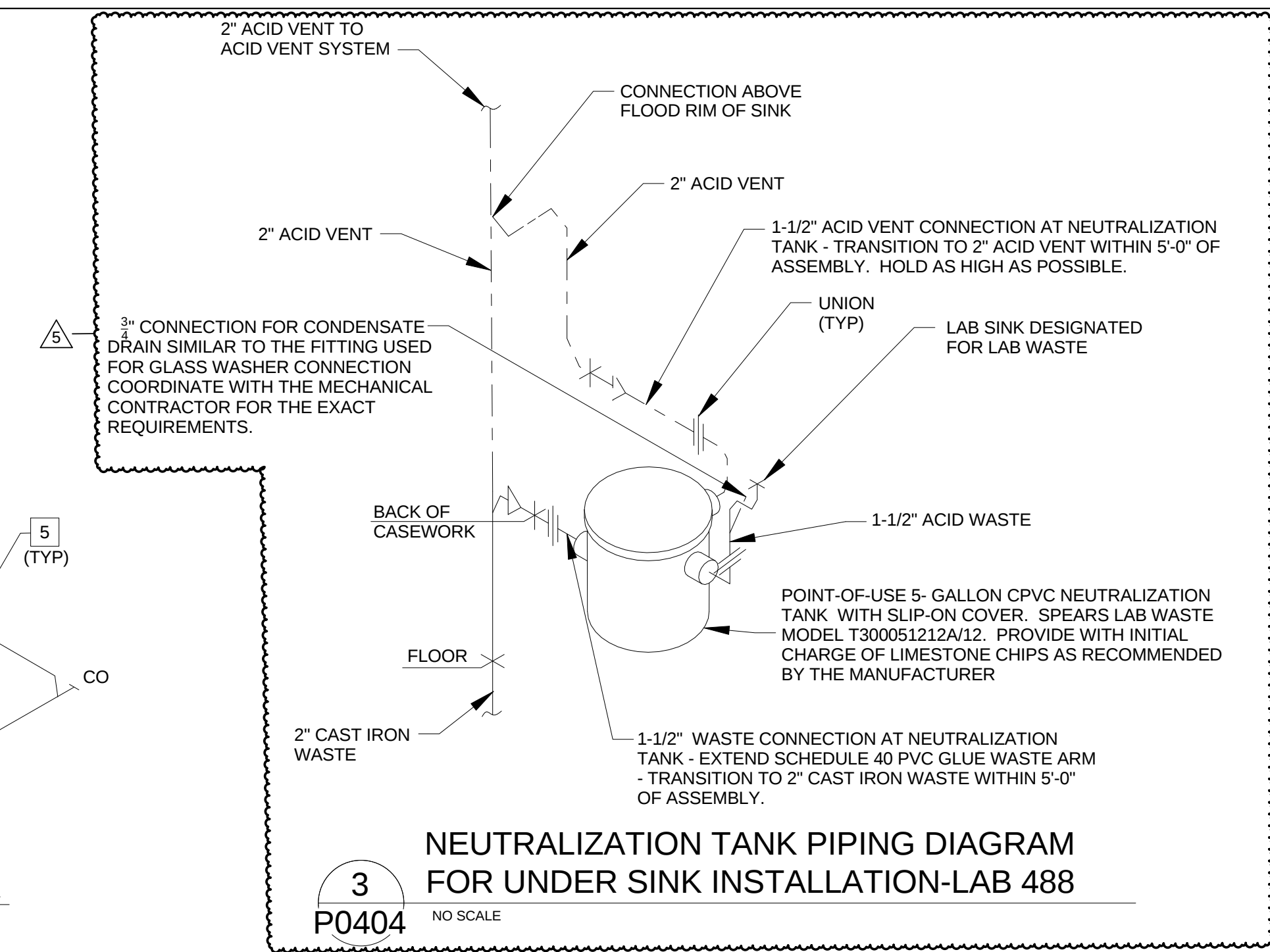
1-3 SANITARY WASTE AND VENT RISER - LAB 491



2 TYPICAL NEUTRALIZATION TANK PIPING DIAGRAM FOR UNDER SINK INSTALLATION

P0404

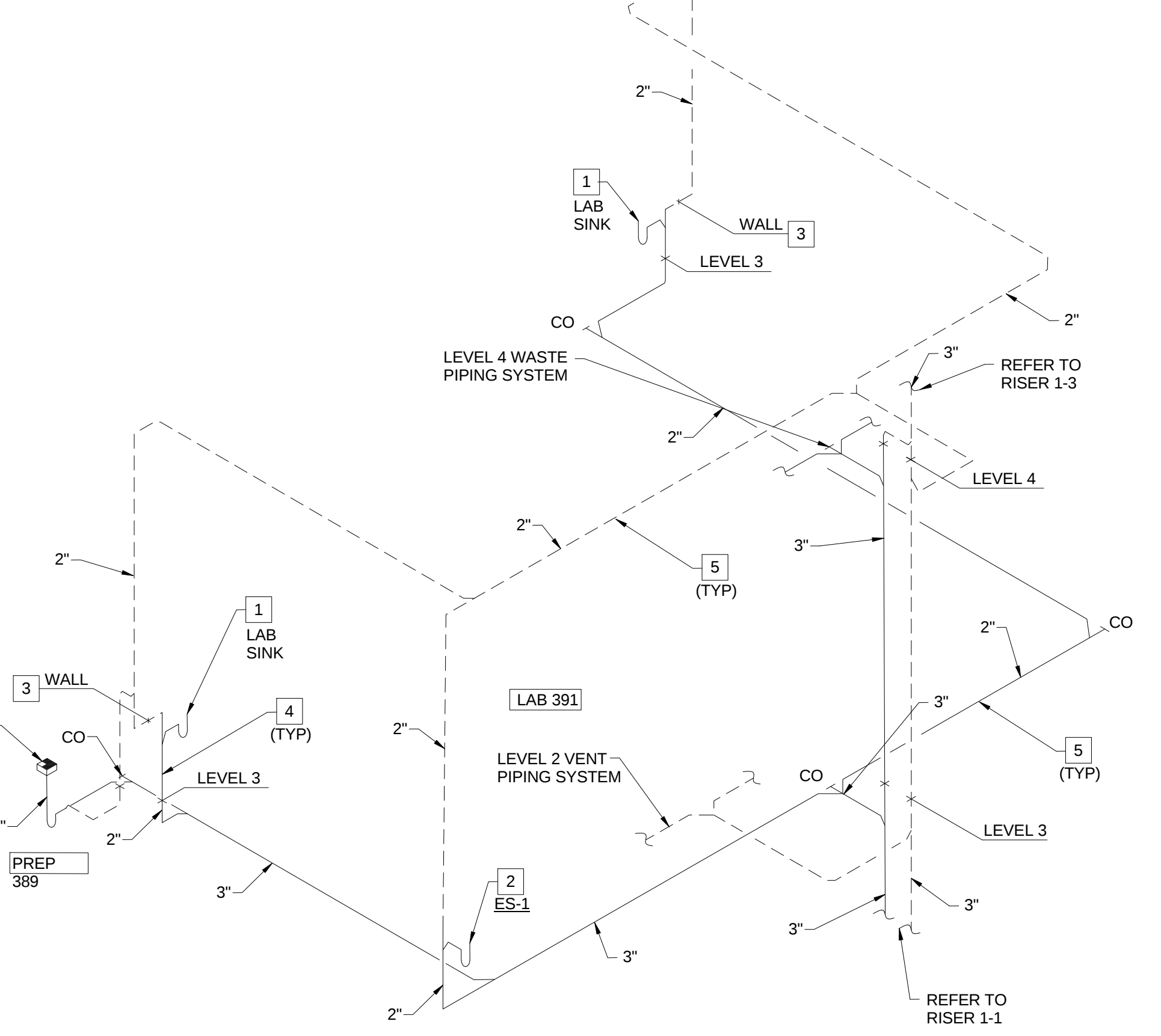
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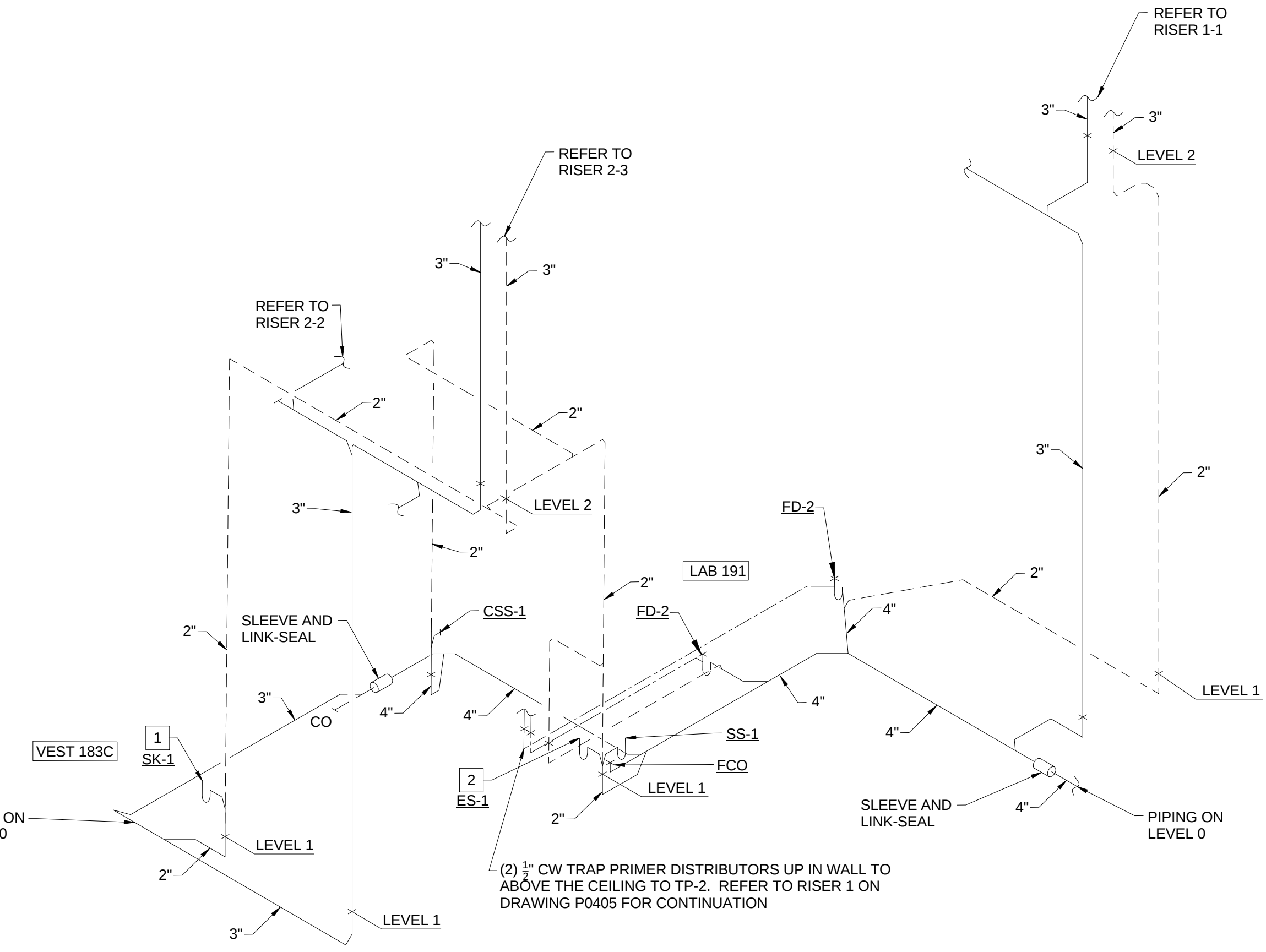
3 NEUTRALIZATION TANK PIPING DIAGRAM FOR UNDER SINK INSTALLATION-LAB 488

P0404

NO SCALE



1-2 SANITARY WASTE AND VENT RISER - PREP 389 AND LAB 391



2-1 SANITARY WASTE AND VENT RISER - VESTIBULE 183C AND LAB 191

P0404

NO SCALE

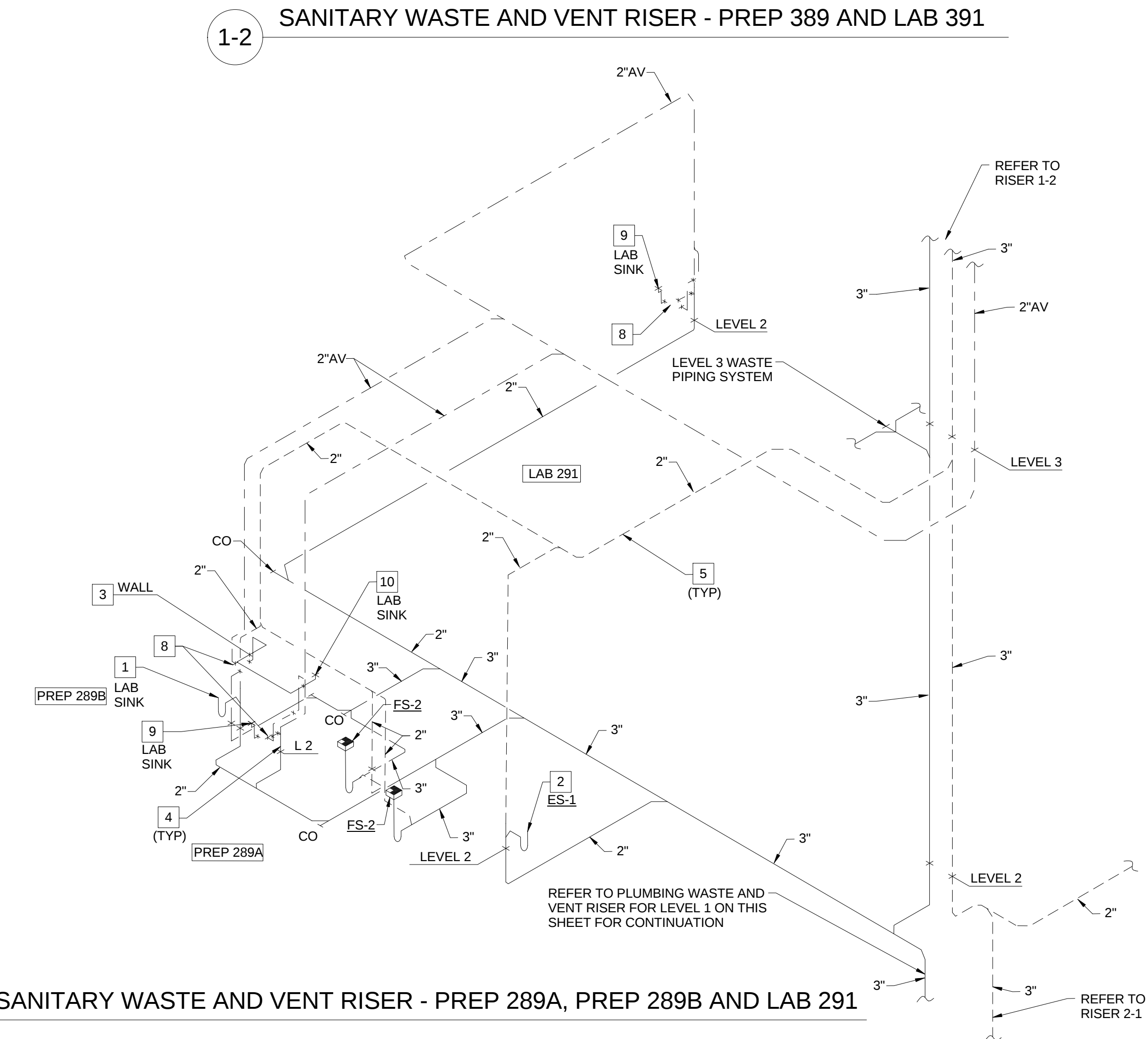
PLUMBING WASTE AND VENT RISERS FOR PLUMBING RIERS PR-1 AND PR-2

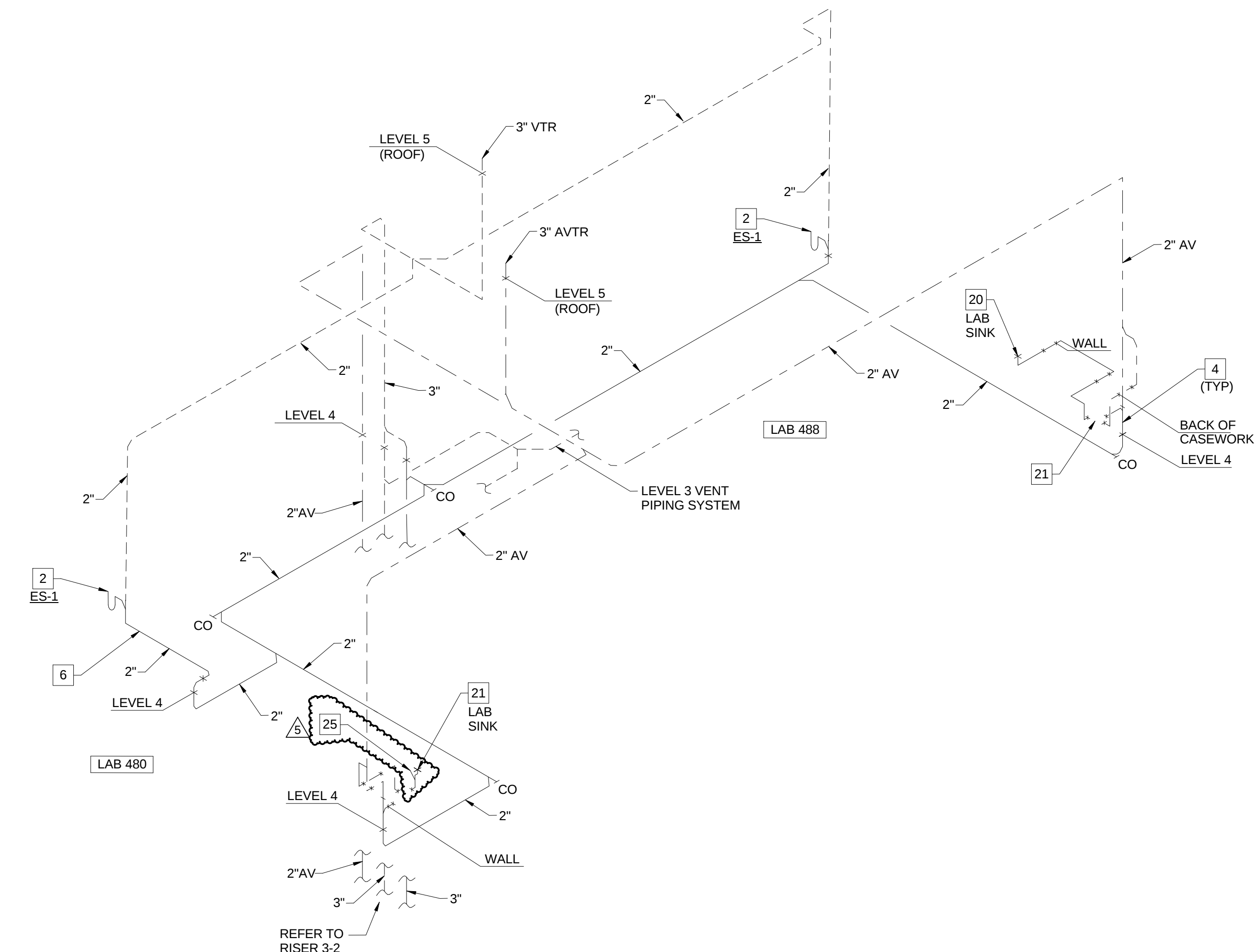
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1-1 SANITARY WASTE AND VENT RISER - PREP 289A, PREP 289B AND LAB 291

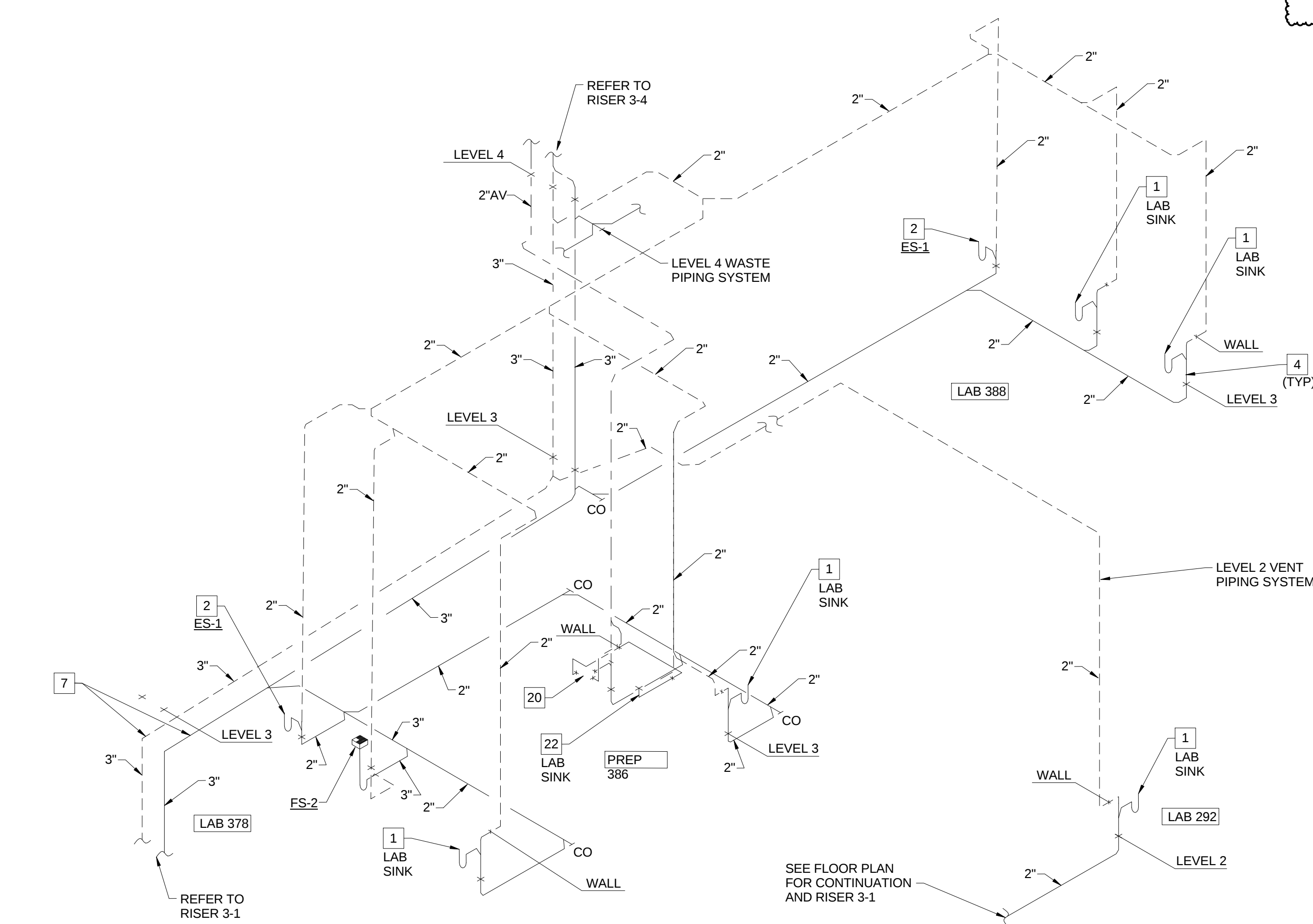
PLUMBING WASTE AND VENT FOR PLUMBING RISER PR-1

SCALE: N.T.S.





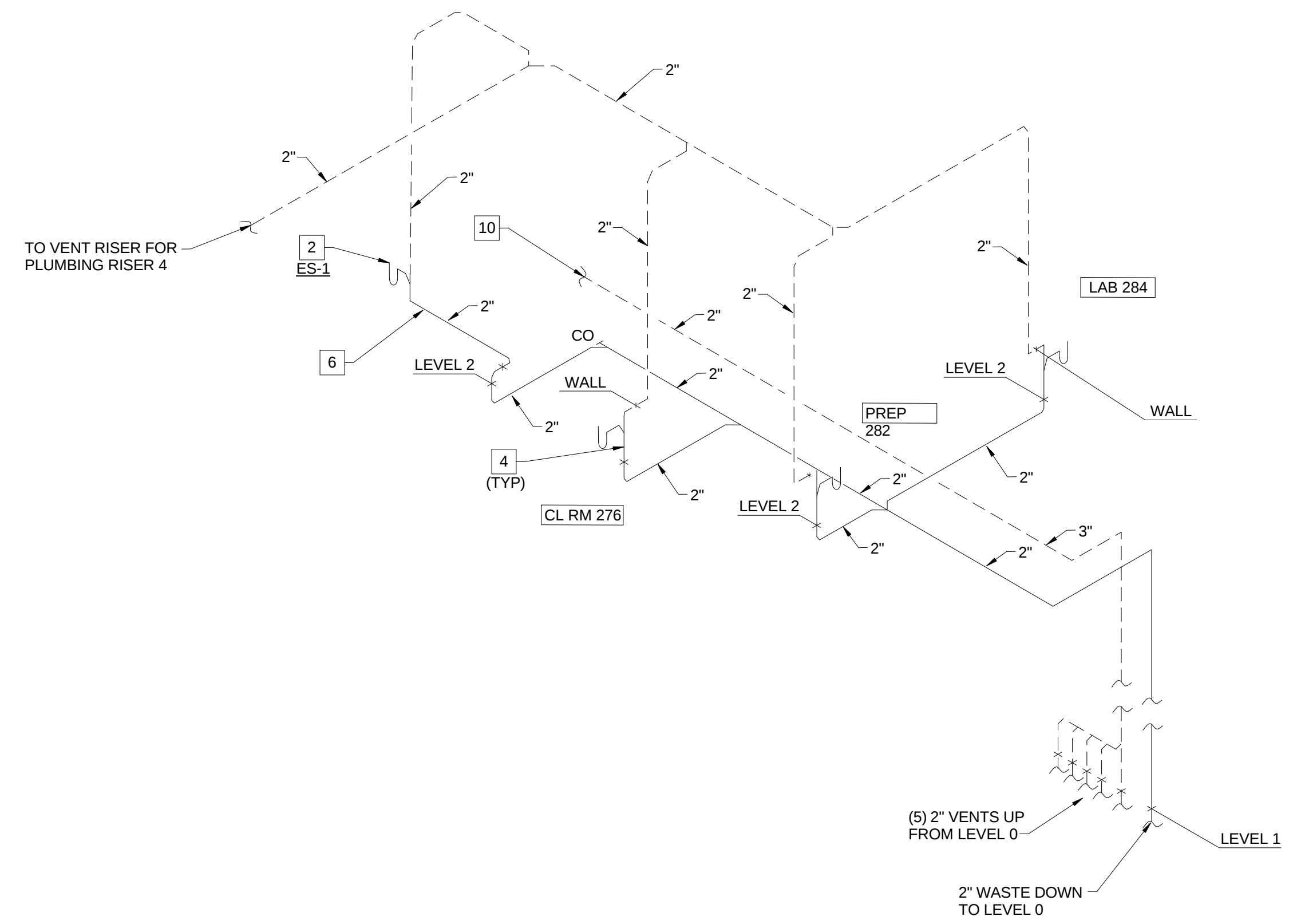
3-4 SANITARY WASTE AND VENT RISER - LAB 480 AND LAB 488



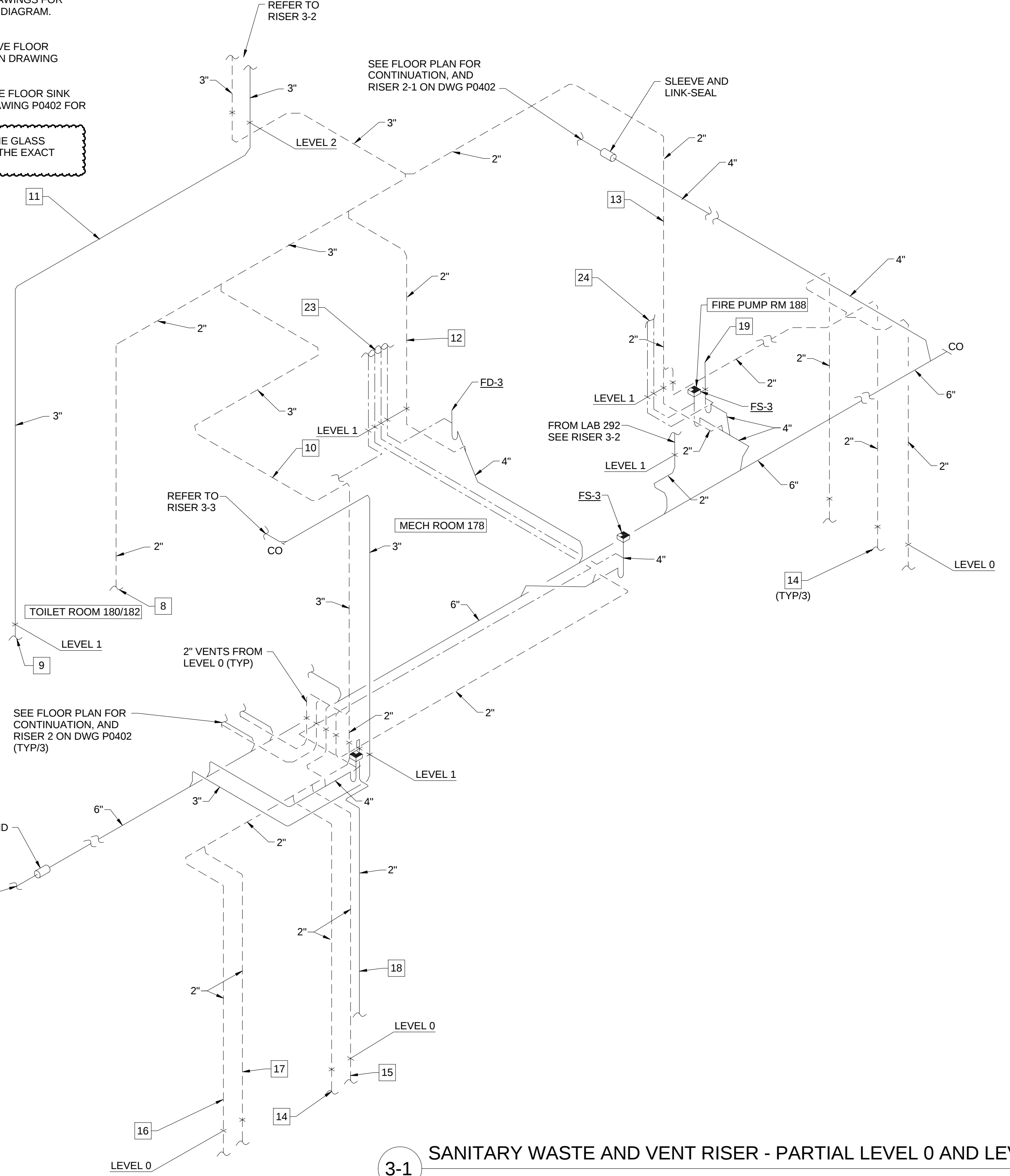
3-2 SANITARY WASTE AND VENT RISER - LAB 292, LAB 378, PREP 386 AND LAB 388

KEYED NOTES (THIS SHEET ONLY)

- 1 REFER TO DRAWING P0503, DETAIL 2/P0503 FOR TYPICAL LAB SINK WASTE CONNECTION DETAIL.
- 2 REFER TO DRAWING P0403, DETAIL 3/P0403 FOR TYPICAL EMERGENCY SHOWER PIPING DIAGRAM. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET THE PIPING AS REQUIRED.
- 3 OFF-SET VENT PIPING INTO THE WALL CAVITY TO EXTEND ABOVE THE CEILING. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE.
- 4 WASTE PIPING TO BE LOCATED IN THE UTILITY SPACE BETWEEN THE WALL AND BACK OF CASEWORK. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET PIPING AS REQUIRED. TYPICAL FOR LAB SINKS OR WHERE APPLICABLE.
- 5 COORDINATE ROUTING AND INSTALLATION OF THE WASTE AND VENT PIPING ABOVE THE CEILING WITH STRUCTURAL ELEMENTS AND OTHER TRADES ON THIS PROJECT. HOLD PIPING AS HIGH AS POSSIBLE, WHERE POSSIBLE. TYPICAL FOR ALL ABOVE THE CEILING PIPING.
- 6 EXTEND WASTE FROM EMERGENCY SHOWER HORIZONTAL IN WALL CAVITY TO AN AREA BEHIND THE LABORATORY CASE WORK. TURN PIPING OUT OF WALL WITHIN UTILITY SPACE BEHIND THE CASEWORK TO TURN DOWN THROUGH THE FLOOR. COORDINATE PENETRATION THROUGH THE FLOOR WITH THE STRUCTURE BELOW AND THE ARCHITECTURAL DRAWINGS, OFF-SET PIPING AS REQUIRED.
- 7 3" WASTE AND 3" VENT TO BE OFF-SET AT LEVEL 2 TO CONTINUE DOWN. COORDINATE INSTALLATION AND ROUTING WITH STRUCTURE AND BUILDING CONDITIONS.
- 8 2" VENT IN PLUMBING CHASE SERVING PLUMBING FIXTURE IN TOILET ROOMS 180 / 182.
- 9 3" WASTE DOWN TO LEVEL 0 IN PLUMBING CHASE OF TOILET ROOMS 180 / 182.
- 10 3" VENT EXTENDED HIGH IN SPACE.
- 11 3" WASTE TO BE OFF-SET AT LEVEL 1 TO CONTINUE DOWN. COORDINATE INSTALLATION AND ROUTING WITH STRUCTURE AND BUILDING CONDITIONS.
- 12 2" VENT UP FROM LEVEL 0 SERVING FLOOR DRAINS IN MECHANICAL ROOM 178.
- 13 2" VENT UP FROM LEVEL 0 SERVING FLOOR SINK IN FIRE PUMP ROOM 188, AND FLOOR DRAINS ON LEVEL 0.
- 14 2" VENT FROM LEVEL 0 FLOOR DRAINS
- 15 2" VENT FROM SUMP PUMP SP-3, ON LEVEL 0.
- 16 2" VENT FROM SUMP PUMPS SP-1 / SP-2 ON LEVEL 0.
- 17 2" VENT FROM SAND INTERCEPTOR ON LEVEL 0.
- 18 2" PUMP DISCHARGE FROM SUMP PUMP SP-3 ON LEVEL 0. TERMINATE INTO FLOOR SINK FS-3 ON LEVEL 1 AS AN INDIRECT WASTE.
- 19 4 INCH CAST IRON OPEN STANDPIPE DRAIN - STUB TOP OF PIPE TWO-FEET ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH THE GENERAL CONTRACTOR AND FIRE SUPPRESSION CONTRACTOR.
- 20 LAB SINK TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.
- 21 POINT-OF-USE NEUTRALIZATION TANK. COORDINATE LOCATION AND PLACEMENT WITH WITH CASEWORK. CONSIDERATION SHALL BE GIVEN FOR SERVICE AND MAINTENANCE ACCESSIBILITY.
- 22 LAB SINK AND GLASS WASHER TO BE CONNECTED TO POINT-OF-USE NEUTRALIZATION TANK REMOTE FROM THE SINK LOCATION. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE CASEWORK. REFER TO DRAWING P0404, DETAIL 1/P0404 FOR TYPICAL PIPING DIAGRAM. PIPING TO BE ADJUSTED AS REQUIRED FOR EACH LOCATION.
- 23 FOUR (4) 1/2" CW TRAP PRIMER DISTRIBUTORS DOWN IN WALL TO LEVEL 0 TO SERVE FLOOR DRAINS AND FLOOR SINKS IN LEVEL 1 MECHANICAL ROOM. REFER TO RISER 2-1 ON DRAWING P0402 FOR CONTINUATION.
- 24 TWO (2) 1/2" CW TRAP PRIMER DISTRIBUTORS DOWN IN WALL TO LEVEL 0 TO SERVE FLOOR SINK AND STANDPIPE DRAIN IN LEVEL 1 FIRE PUMP ROOM. REFER TO RISER 2-1 ON DRAWING P0402 FOR CONTINUATION.
- 25 3/4" CONNECTION FOR CONDENSATE DRAIN SIMILAR TO THE FITTING USED FOR THE GLASS WASHER CONNECTION. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR THE EXACT REQUIREMENTS.



3-3 SANITARY WASTE AND VENT RISER - CLASS ROOM 276 AND PREP 282



3-1 SANITARY WASTE AND VENT RISER - PARTIAL LEVEL 0 AND LEVEL 1

1 PLUMBING WASTE AND VENT RISERS FOR PLUMBING RISER PR-3
P0406 SCALE: N.T.S.



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Interdisciplinary Science
Building

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5	ASI - 051	08 MAR 2017
4	ASI - 033 (RFI 261,286,309 & 310)	03 NOV 2016
3	ASI - 025 Neutralization Tanks	09 SEP 2016
2	ADDENDUM 2-4	24 MAY 2016
1	ADDENDUM 2-2	19 APR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016
No.	Description	Date

Drawing Title:

RISERS - PLUMBING

Project No.: 04561.01

Checked by:

P0406