

PROJECT	Near East Play Fields Reconstruction	ADDENDUM NUMBER	4
PROJECT NO.	0629-2220, A-22-011, 14272	DATE	11/2/2023
PROJECT LOCATION	Madison, WI		
OWNER	Board of Regents of the University of Wisconsin-Madison		
PREPARED BY	SmithGroup, ME Engineers		

This Addendum is issued pursuant to the Instructions to Bidders and/or Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

PART 1 - NEW DOCUMENTS ISSUED WITH THIS DOCUMENT

1.1 NEW PROJECT MANUAL DOCUMENTS AND SPECIFICATIONS

A. None

1.2 NEW DRAWING SHEETS

A. None

1.3 NEW SKETCHES

A. None

PART 2 - DOCUMENTS DELETED BY THIS DOCUMENT

2.1 DELETE THE FOLLOWING FROM THE PROJECT MANUAL

A. None

2.2 DELETE THE FOLLOWING DRAWING SHEETS

A. None

PART 3 - REVISED DOCUMENTS ISSUED WITH THIS DOCUMENT

3.1 REVISED PROJECT MANUAL DOCUMENTS AND SPECIFICATIONS

A. Section C – Bid Form – General Prime Contractor (GPC)

1. Page C1, Line 11, CHANGE “NOVEMBER 21, 2023” TO “NOVEMBER 29, 2023.”

2. Page C2, Unit Price Table, REMOVE column 4, Quantity Included in Base Bid

B. Section C – Bid Form – MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP)

1. Page C1, Line 11, CHANGE “NOVEMBER 7 2023” TO “NOVEMBER 15, 2023.”
- C. Section 09 96 00 High-Performance Coatings
 1. Page 09 96 00-1, Line 10 ADD: All exterior items to be painted shall use the “High Performance Coatings” spec section 09 96 00
- D. Section 12 93 00 Site Furnishings
 1. Page 12 93 00-1, Line 8 CHANGE to read: “Section includes all materials, labor and equipment for installation of site furnishings by contractor as indicated on drawings, to include the following:”
 2. Page 12 93 00-2, Line 9, ADD: “(To be provided and installed by Owner)”
 3. Page 12 93 00-2, Line 18, Change to: “Two Each”
 4. Page 12 93 00-2, Line 21, Change to: “Two Each”
- E. Section 32 18 13 Synthetic Turf
 1. Page 32 18 13-7, Line 6, ADD: D. Basis of design is Shaw 2.25 Powerblade Pro monofilament Turf System with Mondo Fine Tuned System K-45 elastic agglomerate sub-base.
 2. Page 32 18 13-8, Table under Shock Absorbing Pad E-Layer
 - a. Property: Thickness
 - b. Specification: Change to: “> 15mm=/ \pm 10%”
 3. Page 32 18 13-11, Line 7, DELETE “Turf to pad”44
- F. Section 33 11 00 Water Distribution Piping
 1. Page 33 11 00-13, Line 29 ADD the following: See Section 22 11 00 FACILITY WATER DISTRIBUTION for testing and disinfection of exterior water distribution piping.
 2. DELETE page 33 11 00-14 and 33 11 00-15
 3. Page 33 11 00-13: DELETE lines 19-56

3.2 REVISED DRAWING SHEETS

- A. P7.2.1 – PLUMBING ENLARGED PLANS
- B. P9.1 – PLUMBING DETAILS

PART 4 - PROPOSED CHANGES IN THE WORK

- 4.1 None

PART 5 - CLARIFICATIONS

- 5.1 Documents were amended to clearly define where the scope of work starts and ends for the service contractor, fire protection contractor, and plumbing contractor.

END OF DOCUMENT

1 **BID FORM – GENERAL PRIME CONTRACTOR (GPC)** (Rev 11/2022)
2 THE BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN SYSTEM
3 s.16.855 Wis. Stats.

4
5 **NEAR EAST PLAY FIELDS RECONSTRUCTION**
6 **UNIVERSITY OF WISCONSIN - MADISON**
7 **MADISON, WISCONSIN**

8
9 UW-Madison Project No. **0629-2220** / UWSA Project No. **A-22-011**

10
11 **General Prime Contractor (GPC) Bid Opening: 2:00 P.M., November 29, 2023.**

12
13
14 To: University of Wisconsin System Administration (UWSA)

(a joint venture)
(a corporation)
(a partnership)
(an individual)

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16
17
18 We _____

(Cross out inapplicable)

19
20
21 Of _____
22 Street City State Zip

23
24 hereby agree to execute a contract with the Board of Regents of the University of Wisconsin System (the Owner) and a
25 subcontract with all successful MEP Bidders identified by the Owner and listed in this bid, and to furnish satisfactory
26 separate 100% Performance Bond and 100% Payment Bond in the amount specified no later than ten (10) days of the
27 contract offer, and to provide all labor and material required for the construction of the project designated above, for the
28 prices hereinafter set forth, in strict accordance with the Contract Documents prepared by **SmithGroup, 44 East Mifflin**
29 **St. Suite 500, Madison, Wisconsin, 53703** for the Owner and dated **August 31, 2023**.

30
31 Contact Instructions:
32 (For use by Owner to offer contract to the successful bidders)

33
34 Contact name: _____

35
36 Title: _____

37
38 Telephone Number: _____

39
40 Email address: _____

41
42
43 **IMPORTANT: BEFORE SUBMITTING YOUR BID, PLEASE VERIFY THAT:**

- 44 1. You have been **certified by DOA as a qualified and responsible bidder** for the amount of your bid within the
45 division(s) of work being bid.
- 46 2. You have **entered all Bid amounts in numeric characters** (Example: \$9,999);
- 47 3. You have **acknowledged receipt of all addenda**;
- 48 4. You have **signed the Bid Form**
- 49 5. You have **included a valid Bid Guarantee** for not less than 10% of the value of the bid as either:
50 a) a Bid Bond signed by the contractor and surety and with a Power of Attorney attached, **or**
51 b) a Cashier's Check or Bank Check pursuant to Wis stats. s. 779.14(1m)(c)2.b. and 779.14(1s). A
52 Company or Personal Check will not be accepted.
- 53
54

1 **SINGLE BASE BID - GENERAL PRIME CONTRACTOR**

2
3 **ALL WORK**

4
5 BASE BID NO 1. ALL WORK required to fully complete the project in accordance with the Contract Documents,
6
7 for the sum of (\$_____)

8 **Enter bid amount in numeric characters only** (Example: \$9,999). See Instructions to Bidders 'Article 16 Submission
9 of Base Bids' for detailed instructions.

10
11 UNIT PRICES (listed below are for additions to or deductions from amount of work required under the contract. See
12 Instructions to Bidders 'Article 18 Unit Prices' for detailed instructions.) (Applicable to Base Bid No. 1)

Reference Item	Unit Section	Unit Price
Undercutting/Excavation Below Subgrade (EBS)	31 22 16.15	\$_____per CY
Drainage Aggregate	32 11 23.35	\$_____per CY
Turf Base Aggregate	32 11 23.35	\$_____per CY
Synthetic Turf	32 18 13	\$_____per SF

25
26 *Enter bid amount in numeric characters only* (Example \$9,999).

27
28 **Base Bid No. 1 includes** the bids from the following successful MEP Subcontractors identified by UWSA for the
29 mechanical, electrical, plumbing, and fire protection divisions of work in this project. The General Prime
30 Contractor shall enter into subcontracts with these MEP Subcontractors:

31
32 **Fire Suppression Base Bid No. 2:**

33 Identified Subcontractor: _____

34
35 Amount: _____

36
37 **Plumbing Base Bid No. 3:**

38 Identified Subcontractor: _____

39
40 Amount: _____

41
42 **Heating Ventilating and Air Conditioning Base Bid No. 4:**

43 Identified Subcontractor: _____

44
45 Amount: _____

46
47 **Electrical Base Bid No. 5:**

48 Identified Subcontractor: Forward Electric, Inc.

49
50 Amount: \$1,382,641

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COMMENCEMENT AND COMPLETION OF CONTRACT WORK

The undersigned agrees, if awarded the contract, to enter into a subcontract with the MEP Bidders identified by the Owner.

ADDENDUM RECEIPT

We acknowledge receipt of the following Addenda:

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

PRIOR TO SIGNING, BIDDERS' ATTENTION IS DIRECTED TO INSTRUCTIONS TO BIDDERS TO AVOID THE POSSIBILITY OF INVALIDATING THIS BID.

BY SIGNING THIS BID FORM, THE BIDDER ATTESTS TO PERSONAL KNOWLEDGE OF THE FOLLOWING:

- | | |
|----|---|
| 1. | Bidder is <u>certified</u> by DOA as a qualified and responsible bidder for the amount of the bid submitted, within the division(s) of work being bid. |
| 2. | In accordance with Wis. Stats. 16.855 (13) and (14) and ARTICLE 21 of these Bidding Documents, Bidder agrees to enter into a subcontract with the successful MEP Subcontractors identified by the Owner. |
| 3. | Bidder has examined the drawings and specifications, carefully prepared the bid form, and has reviewed all forms in detail before submitting bid; and bidder, or the agents, officers, or employees thereof, have not, either directly or indirectly, entered into any agreement, bid rigging, bid rotation, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid. |
| 4. | That all work will be performed at the Bidder's own proper cost and expense, that the Bidder will furnish all necessary materials, labor, tools, machinery, apparatus, and other means of construction in the manner provided in the applicable specifications, and at the time stated in the contract. |

(Firm Name)

(Bidder's Printed Name)

(Bidder's Title)

(Seal, if bid is by a corporation)

Date: _____

By _____
(Signature of Bidder)

Place an "X" in the box if Bidder is certified as a minority business enterprise or disabled veteran-owned business by the Wisconsin Supplier Diversity Program and wishes to be considered for the 5% bidder preference.

1 **BID FORM – MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP)** (Rev 11/2022)
2 THE BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN SYSTEM
3 s.16.855 Wis. Stats.

4
5 **NEAR EAST PLAY FIELDS RECONSTRUCTION**
6 **UNIVERSITY OF WISCONSIN - MADISON**
7 **MADISON, WISCONSIN**

8
9 UW-Madison Project No. **0629-2220** / UWSA Project No. **A-22-011**

10
11 **Mechanical, Electrical, Plumbing, and Fire Protection (MEP) Bid Opening: 2:00 P.M., November 15, 2023.**

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13
14 To: University of Wisconsin System Administration (UWSA)

(a joint venture)
(a corporation)
(a partnership)
(an individual)

15
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18 We _____

(Cross out inapplicable)

19
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21 Of _____
22 Street City State Zip

23
24 hereby agree to execute a subcontract with the General Prime Contractor awarded the contract for the project designated
25 above and to furnish satisfactory separate 100% Performance Bond and 100% Payment Bond in the amount specified
26 no later than ten (10) days after execution of the subcontract with the General Prime Contractor, and to provide all labor
27 and material required for the construction of the project designated above, for the prices hereinafter set forth, in strict
28 accordance with the Bidding Documents prepared by **SmithGroup, 44 East Mifflin St. Suite 500, Madison, Wisconsin,**
29 **53703** for the Owner and dated **August 31, 2023.**

30
31 (For use by General Prime Contractor to offer subcontract to the successful MEP bidders identified through UWSA)

32
33 Contact name: _____

34
35 Telephone Number: _____

36
37 Email address: _____

38
39 FAX Number: _____

40
41 **IMPORTANT: BEFORE SUBMITTING YOUR BID, PLEASE VERIFY THAT:**

- 42 1. You have been **certified by DOA as a qualified and responsible bidder** for the amount of your bid within the
43 division(s) of work being bid.
44 2. You have **entered all Bid amounts in numeric characters** (Example: \$9,999);
45 3. You have **acknowledged receipt of all addenda**;
46 4. You have **signed the Bid Form**
47 5. You have **included a valid Bid Guarantee** for not less than 10% of the value of the bid as either:
48 a) a Bid Bond signed by the contractor and surety, with a Power of Attorney attached, **or**
49 b) a Cashier's Check or Bank Check pursuant to Wis. Stat. s. 779.14(1m)(c)2.b. and 779.14(1s). A
50 Company or Personal Check will not be accepted.
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FIRE SUPPRESSION

BASE BID NO. 2 Fire Suppression Work fully complete as per Bidding Documents, for the sum of

(\$ _____)

Enter bid amount in numeric characters only (Example: \$9,999). See MEP Instructions to Bidders 'Article 16 Submission of Base Bids' for detailed instructions.

PLUMBING

BASE BID NO. 3 Plumbing Work fully complete as per Bidding Documents, for the sum of

(\$ _____)

Enter bid amount in numeric characters only (Example: \$9,999). See MEP Instructions to Bidders 'Article 16 Submission of Base Bids' for detailed instructions.

HEATING, VENTILATING AND AIR CONDITIONING

BASE BID NO. 4 Heating, Ventilating, Air Conditioning Work fully complete as per Bidding Documents, for the sum of

(\$ _____)

Enter bid amount in numeric characters only (Example: \$9,999). See MEP Instructions to Bidders 'Article 16 Submission of Base Bids' for detailed instructions.

ELECTRICAL – Awarded to Forward Electric Inc. per initial bids received October 5th, 2023.

BASE BID NO. 5 Electrical Work fully complete as per Bidding Documents for the sum of

(\$1,382,641 _____)

Enter bid amount in numeric characters only (Example: \$9,999). See MEP Instructions to Bidders 'Article 16 Submission of Base Bids' for detailed instructions.

COMBINED BASE BIDS OPTION

BASE BID NO. _____ for _____ (Division of Work),
BASE BID NO. _____ for _____ (Division of Work) and
BASE BID NO. _____ for _____ (Division of Work) and
BASE BID NO. _____ for _____ (Division of Work) Work fully complete as per
specifications and related drawings, for the sum of

(\$ _____)

Enter bid amount in numeric characters only (Example: \$9,999). See MEP Instructions to Bidders 'Article 16 Submission of Base Bids' for detailed instructions.

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COMMENCEMENT AND COMPLETION OF WORK

The undersigned agrees, if identified as the lowest qualified responsible certified bidder for the divisions(s) of work bid on, to enter into a subcontract with the General Prime Contractor.

ADDENDUM RECEIPT

We acknowledge receipt of the following Addenda:

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

PRIOR TO SIGNING, BIDDERS' ATTENTION IS DIRECTED TO MEP INSTRUCTIONS TO BIDDERS TO AVOID THE POSSIBILITY OF INVALIDATING THIS BID.

BY SIGNING THIS BID FORM, THE BIDDER ATTESTS TO PERSONAL KNOWLEDGE OF THE FOLLOWING:

- | | |
|----|---|
| 1. | Bidder is <u>certified</u> by DOA as a qualified and responsible bidder for the amount of the bid submitted, within the division(s) of work being bid. |
| 2. | Bidder agrees to enter into a subcontract with the General Prime Contractor in accordance with Wis. Stats. s. 16.855(14) and ARTICLE 9 of these Bidding Documents. |
| 3. | Bidder has examined the drawings and specifications, carefully prepared the bid form, and has reviewed all forms in detail before submitting bid; and bidder, or the agents, officers, or employees thereof, have not, either directly or indirectly, entered into any agreement, bid rigging, bid rotation, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid. |
| 4. | That all work will be performed at the Bidder's own proper cost and expense, that the Bidder will furnish all necessary materials, labor, tools, machinery, apparatus, and other means of construction in the manner provided in the applicable specifications, and at the time stated in the General Prime Contractor's Notice to Proceed. |

(Firm Name)

(Seal, if bid is by a corporation)

(Bidder's Printed Name)

Date: _____

By _____
(Signature of Bidder)

Place an "X" in the box if Bidder is certified as a minority business enterprise or disabled veteran-owned business by the Wisconsin Supplier Diversity Program.

PROJECT ADDRESS:
1810 Observatory Drive
Madison, Wisconsin 53706

PLUMBING ENLARGED PLANS AND ISOMETRICS

REVISIONS:

REV	DATE	DESCRIPTION
2	10/24/2023	Addendum 4

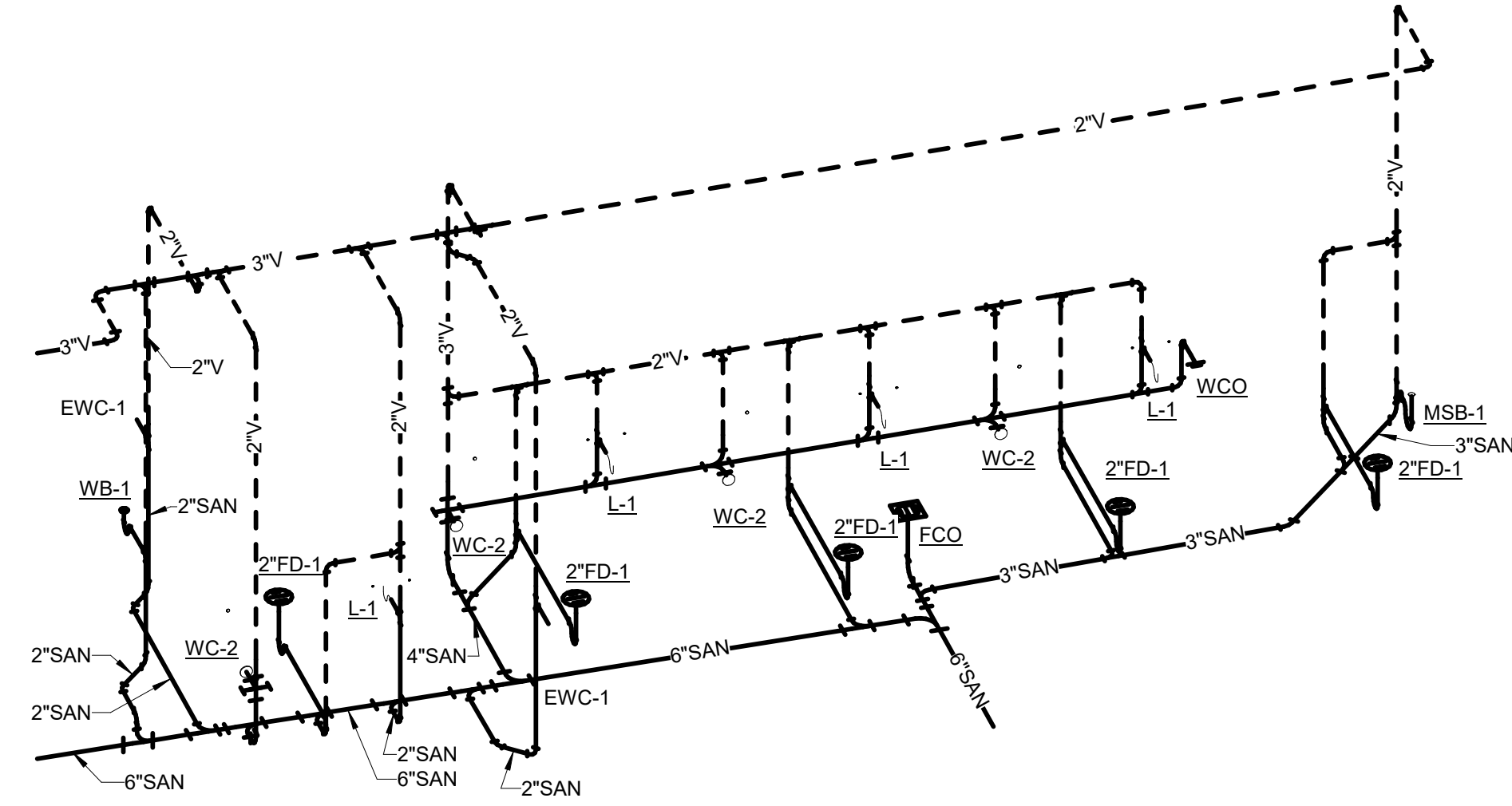
SCALE	
UWSA NO.	A-22-011
SET TYPE	BID SET
DATE	31 AUG 23

GENERAL NOTES:

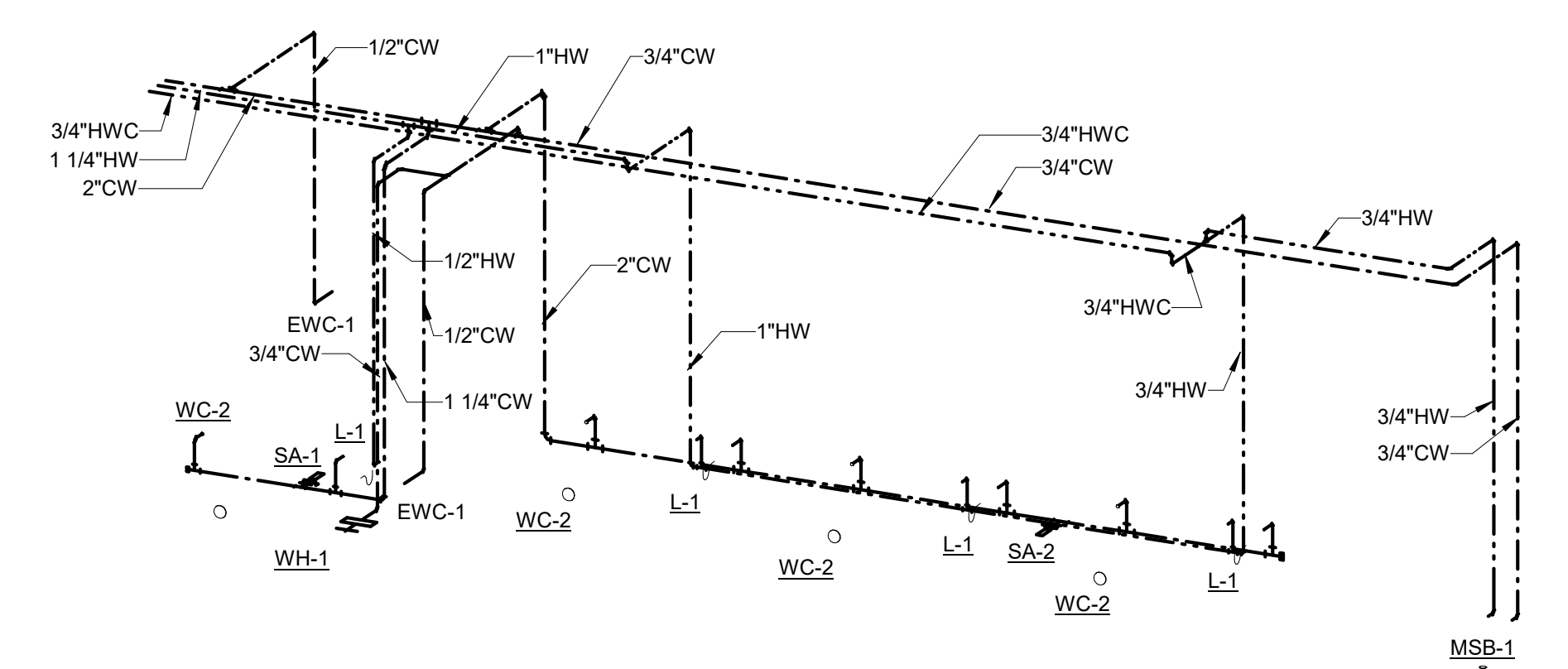
1. REQUIRED PIPE SIZES ARE SHOWN NEXT TO KEY NOTE.
2. PROVIDE BALL VALVE SHUT-OFF AND 12"X12" ACCESS PANEL AT EACH SHOCK ABSORBER (SA). PANEL LOCATION TO BE VERIFIED AND COORDINATED WITH ARCHITECT.
3. ALL FLOOR DRAINS ARE 2" ED-1 UNLESS NOTED OTHERWISE.
4. ALL INVERT ELEVATIONS (E) SHALL BE FIELD VERIFIED BEFORE ANY PIPING IS INSTALLED.
5. ALL CIRCUIT SETTERS SHALL BE SET AT 1.0 GPM UNLESS NOTED OTHERWISE.
6. PROVIDE SEPARATE TEST HEADER TO THE EXTERIOR FOR FORWARD FLOW TEST OF THE DOUBLE CHECK. DO NOT COMBINE WITH FDC CONNECTION.
7. ALL SYSTEM CHECKS SHALL HAVE A REMOVABLE COVER.
8. NO PIPE APPLIED AIR COMPRESSOR.

KEY NOTES:
(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET)

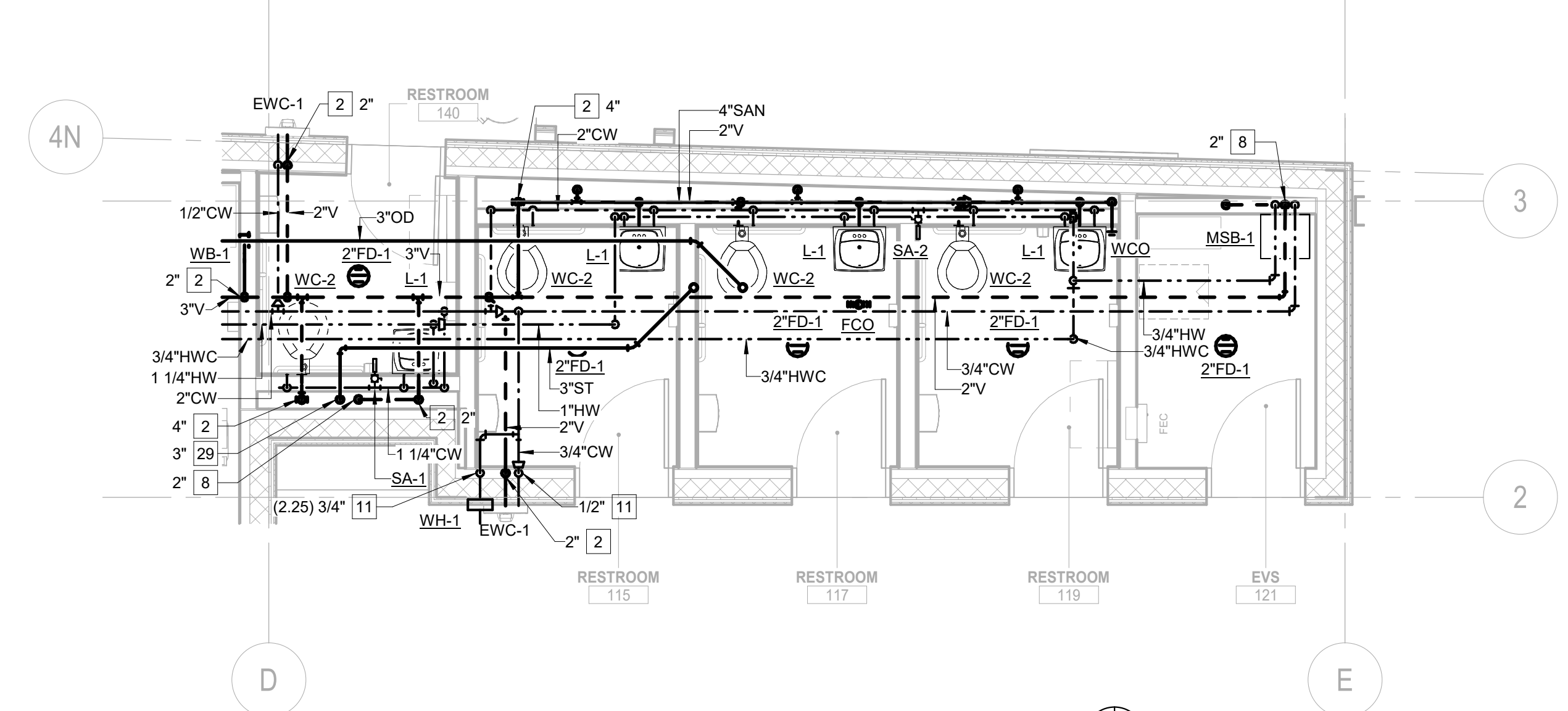
- 1 SANITARY PIPING UP
- 2 SANITARY PIPING DN
- 3 SANITARY PIPING UP & DN
- 4 CW PIPING UP
- 5 GW PIPING DN
- 6 GW PIPING UP & DN
- 7 SANITARY VENT UP
- 8 SANITARY VENT DN
- 9 SANITARY VENT UP & DN
- 10 CW PIPING UP
- 11 CW PIPING DN
- 12 CW PIPING UP & DN
- 13 HW PIPING UP
- 14 HW PIPING DN
- 15 HW PIPING UP & DN
- 16 HWC PIPING UP
- 17 HWC PIPING DN
- 18 HWC PIPING UP & DN
- 19 CW & HW PIPING UP
- 20 CW & HW PIPING DN
- 21 CW & HW PIPING UP & DN
- 22 GAS (5 PSI) PIPING UP
- 23 GAS (5 PSI) PIPING DN
- 24 GAS (5 PSI) PIPING UP & DN
- 25 GAS (10" W.C.) PIPING UP
- 26 GAS (10" W.C.) PIPING DN
- 27 GAS (10" W.C.) PIPING UP & DN
- 28 STORM PIPING UP
- 29 STORM PIPING DN
- 30 STORM PIPING UP & DN
- 31 OVERFLOW PIPING UP
- 32 OVERFLOW PIPING DN
- 33 OVERFLOW PIPING UP & DN
- 34 OVERFLOW PIPING DOWN AND THRU WALL TO DOWNSPOUT NOZZLE +12" AFG
- 35 SANITARY PIPING UP TO PLUMBING FIXTURES
- 36 PIPING UP TO CLEANOUT
- 37 CW HEADER
- 38 HW HEADER
- 39 CW & HW HEADER
- 40 1/2" CW & HW TO EACH LAV/SINK
- 41 CW VALVED & CAPPED FOR FOOD SERVICE
- 42 HW STUBBED & CAPPED FOR FOOD SERVICE
- 43 VENT STUBBED & CAPPED FOR FOOD SERVICE
- 44 SAN STUBBED & CAPPED FOR FOOD SERVICE
- 45 GW STUBBED & CAPPED FOR FOOD SERVICE
- 46 GAS (10" WC) VALVED FOR FOOD SERVICE
- 47 PIPING UP TO DRAIN
- 48 1/2" CW & HW DOWN TO SHOWER VALVE & 1/2" UP TO SHOWERHEAD
- 49 1/2" CW FROM TRAP PRIMER. ROUTE 1/2" CW (LINE)S DOWN BELOW FLOOR TO FLOOR DRAIN PRIMER TAP
- 50 1/2" CW & HW DOWN IN WALL BRANCH OFF 3/4" CW & HW TO EACH TUB FILLER FAUCET.
- 51 DOMESTIC HOT & COLD WATER FOR FUTURE EXTENSION
- 52 PROVIDE FLEXIBLE EXPANSION JOINT TO ACCOMMODATE 8" OF MOVEMENT. INSTALL PER MANUFACTURER RECOMMENDATIONS.
- 53 SLEEVE THROUGH STRUCTURE.



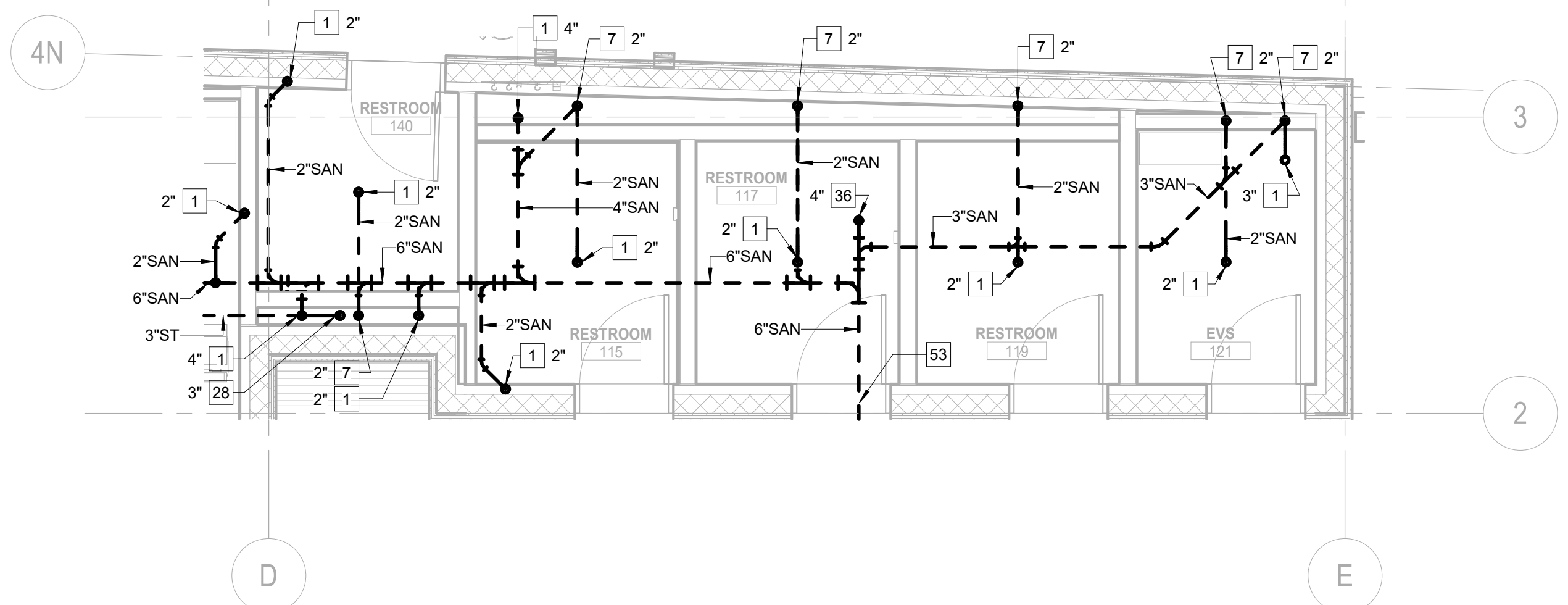
3 PLUMBING SANITARY ISOMETRIC - RESTROOMS



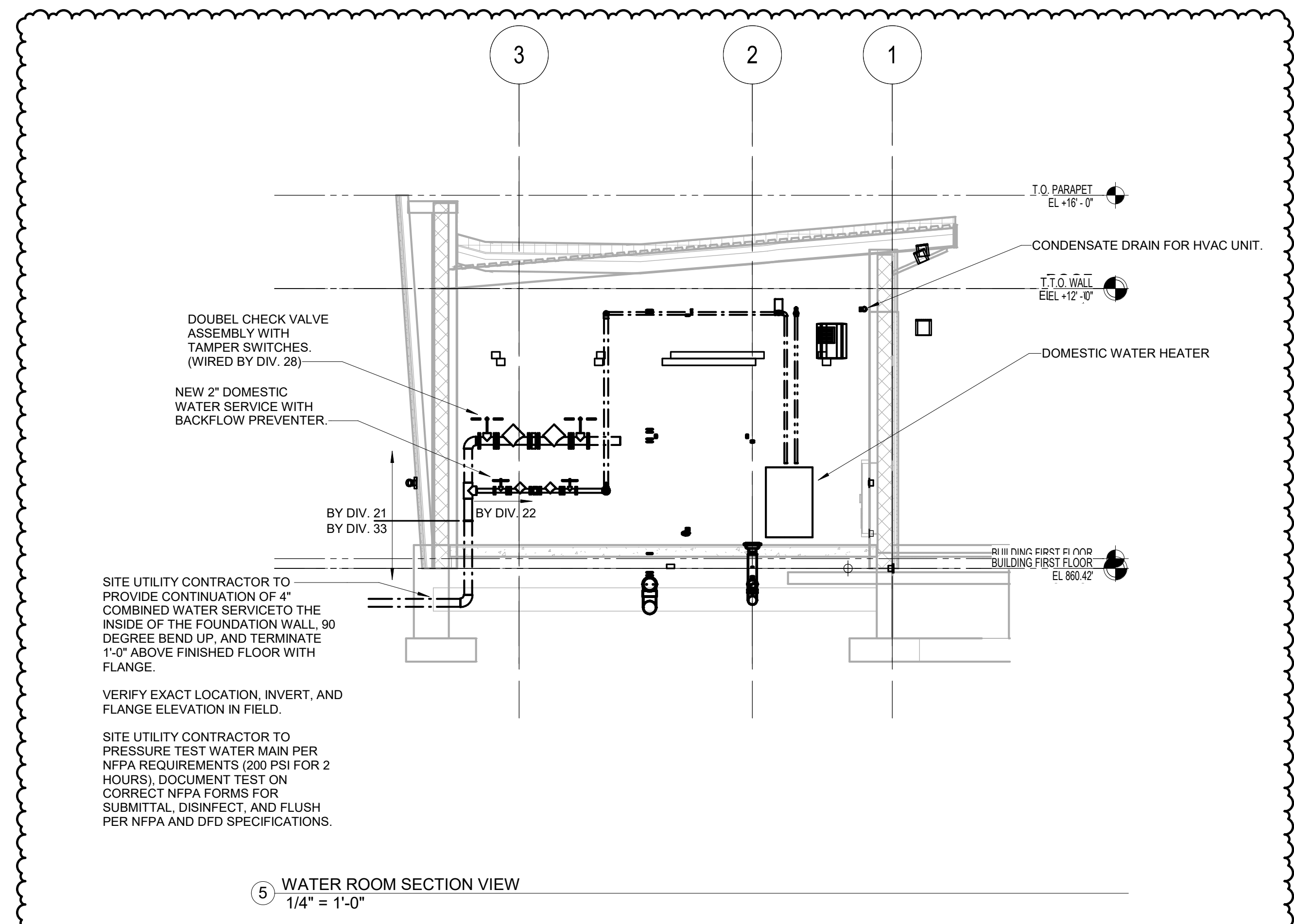
4 PLUMBING WATER ISOMETRIC - RESTROOMS



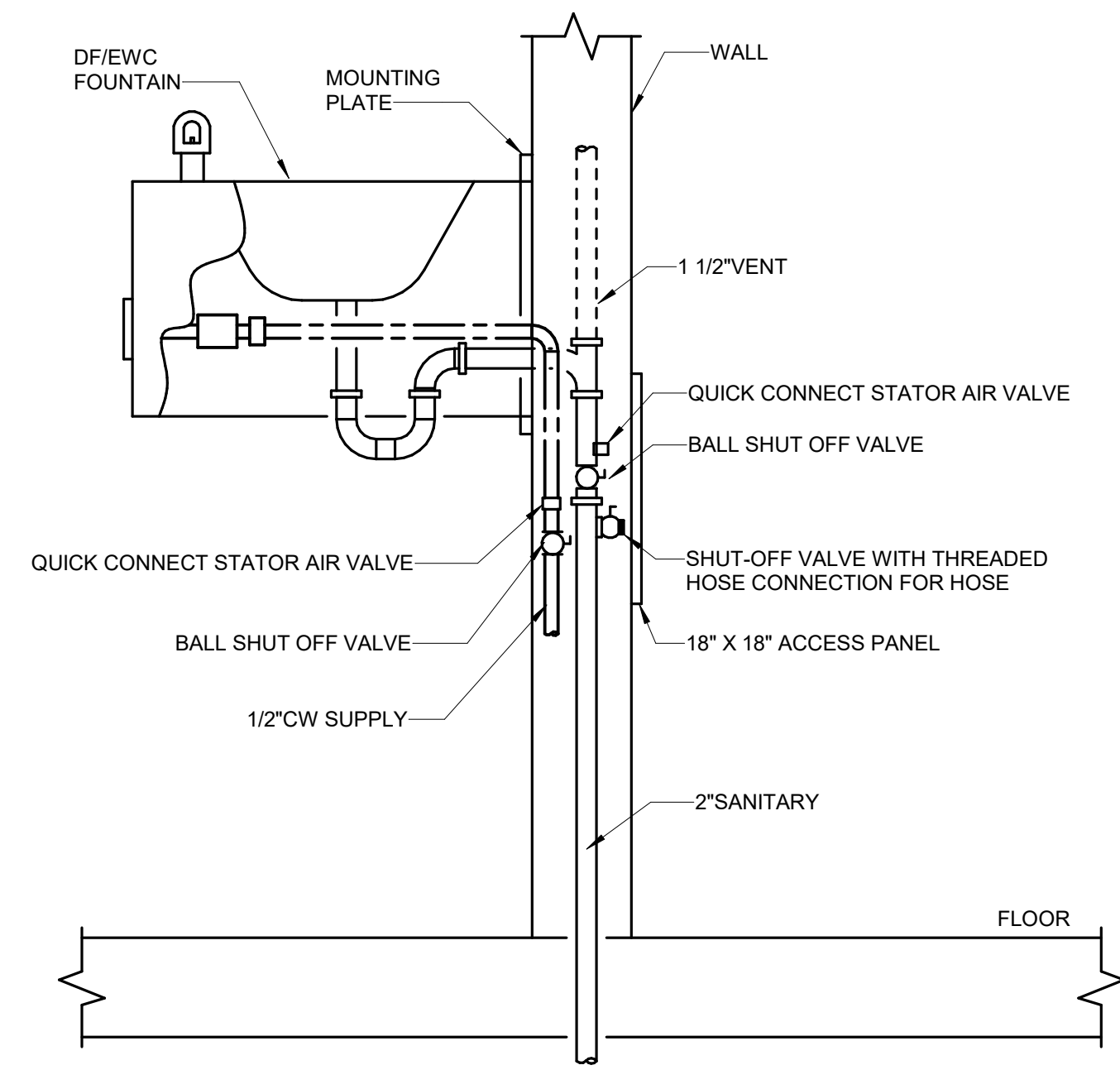
1 PLUMBING ENLARGED PLAN - RESTROOMS
1/4" = 1'-0"



2 PLUMBING ENLARGED UNDERGROUND PLAN - RESTROOMS
1/4" = 1'-0"



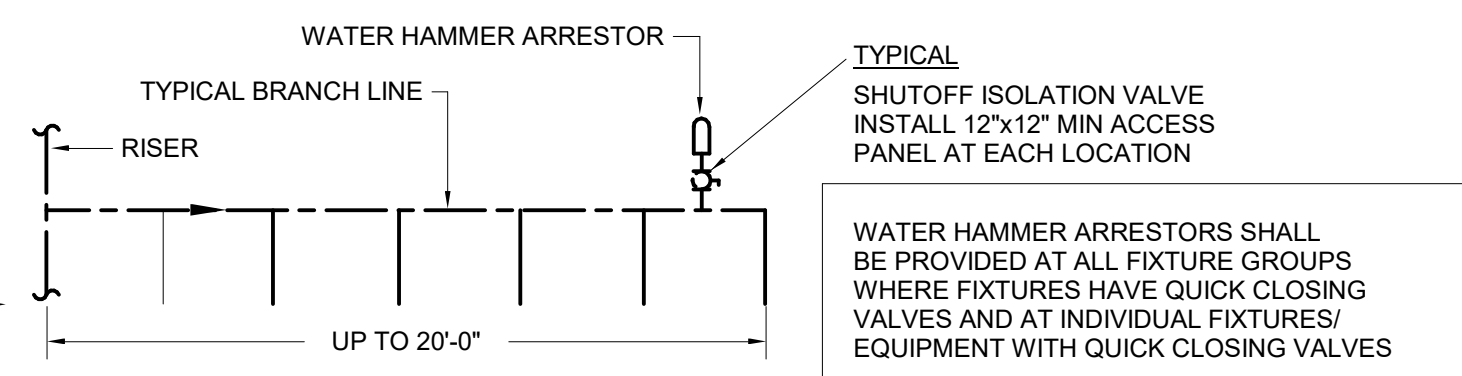
5 WATER ROOM SECTION VIEW
1/4" = 1'-0"



5 DF AND EWC FOUNTAIN DRAIN DOWN DETAIL
NO SCALE

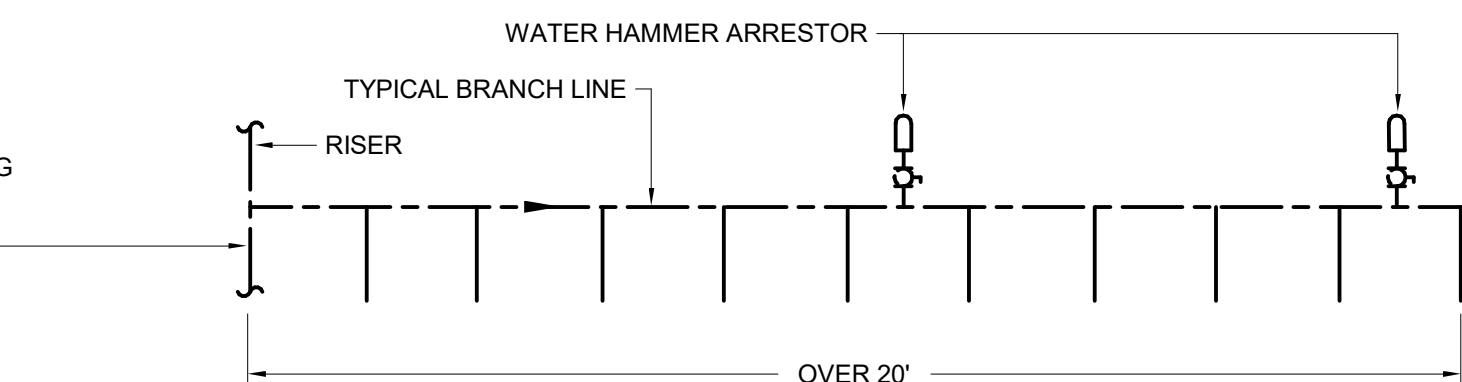
BRANCH LINES OF 20 FEET OR LESS

PLACE WATER HAMMER ARRESTOR AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED, AS SHOWN. SELECT REQUIRED MODEL USING FIXTURE UNIT SIZING.



BRANCH LINES EXCEEDING 20 FEET

PLACE AN ADDITIONAL WATER HAMMER ARRESTOR AS SHOWN AT RIGHT. SELECT REQUIRED MODELS USING FIXTURE UNIT SIZING. THE SUM OF THE FIXTURE UNIT RATINGS OF UNITS X AND Y SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.



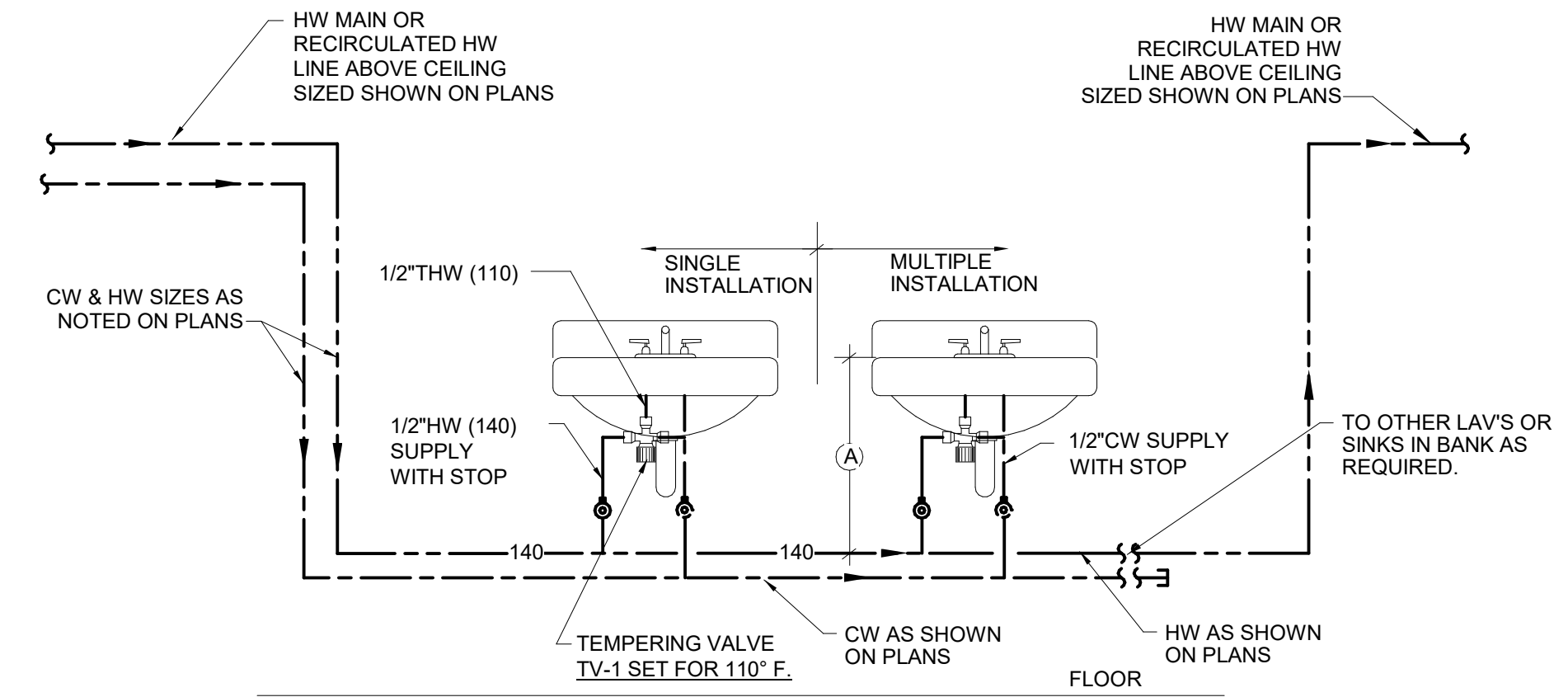
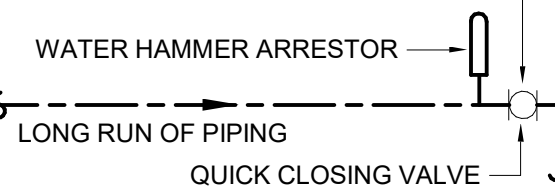
WATER HAMMER ARRESTOR CAPACITIES				
CODE	CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
SA-1	1/2"	A	1 TO 11	5
SA-2	3/4"	B	12 TO 32	7
SA-3	1"	C	33 TO 60	11
SA-4	1"	D	61 TO 113	20
SA-5	1"	E	114 TO 154	29
SA-6	1"	F	155 TO 330	34

NOTE: MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

LENGTH OF PIPE	NOMINAL PIPE DIAMETERS						
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
25'	A	A	B	C	D	E	
50'	A	B	C	D	E	F	
75'	B	C	D	AE	F	FF	
100'	C	D	E	F	CF	FF	
125'	C	D	F	AF	EF	FFF	
150'	D	E	F	DF	FF	FFF	

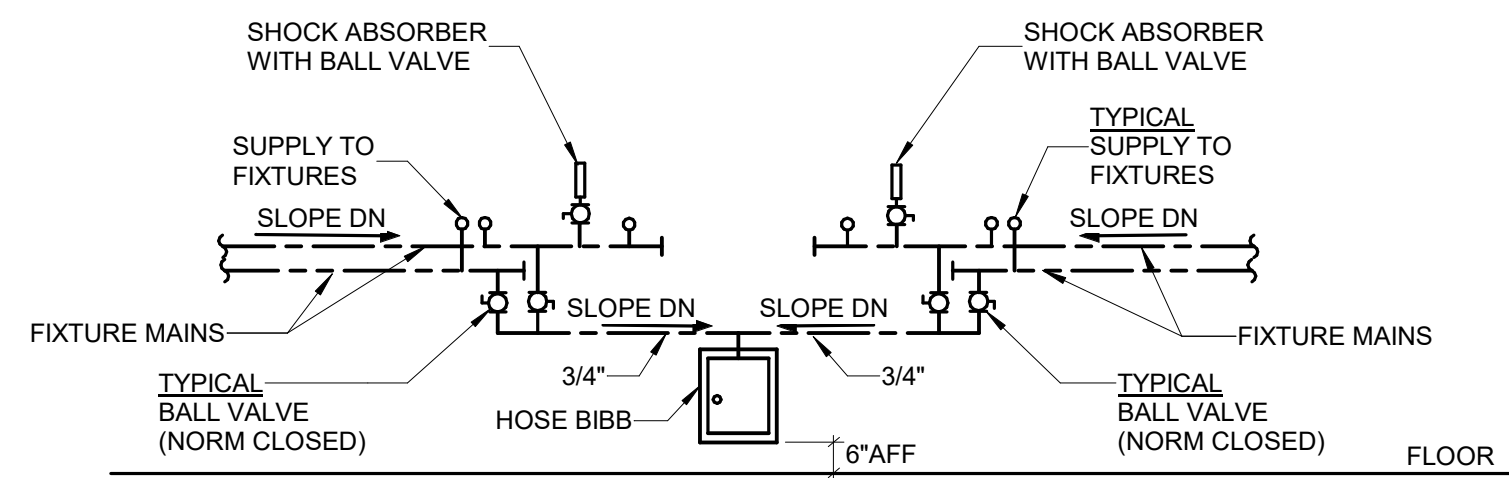
WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE REMOTE EQUIPMENT, WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE.

THE SIZE AND QUANTITY OF WATER HAMMER ARRESTORS TO BE INSTALLED IN BRANCH LINES IS SHOWN IN TABLE. WHEN FLOW PRESSURES OF 85 TO 85 PSIG ARE USED, THE NEXT LARGER SIZE SHOULD BE SELECTED.



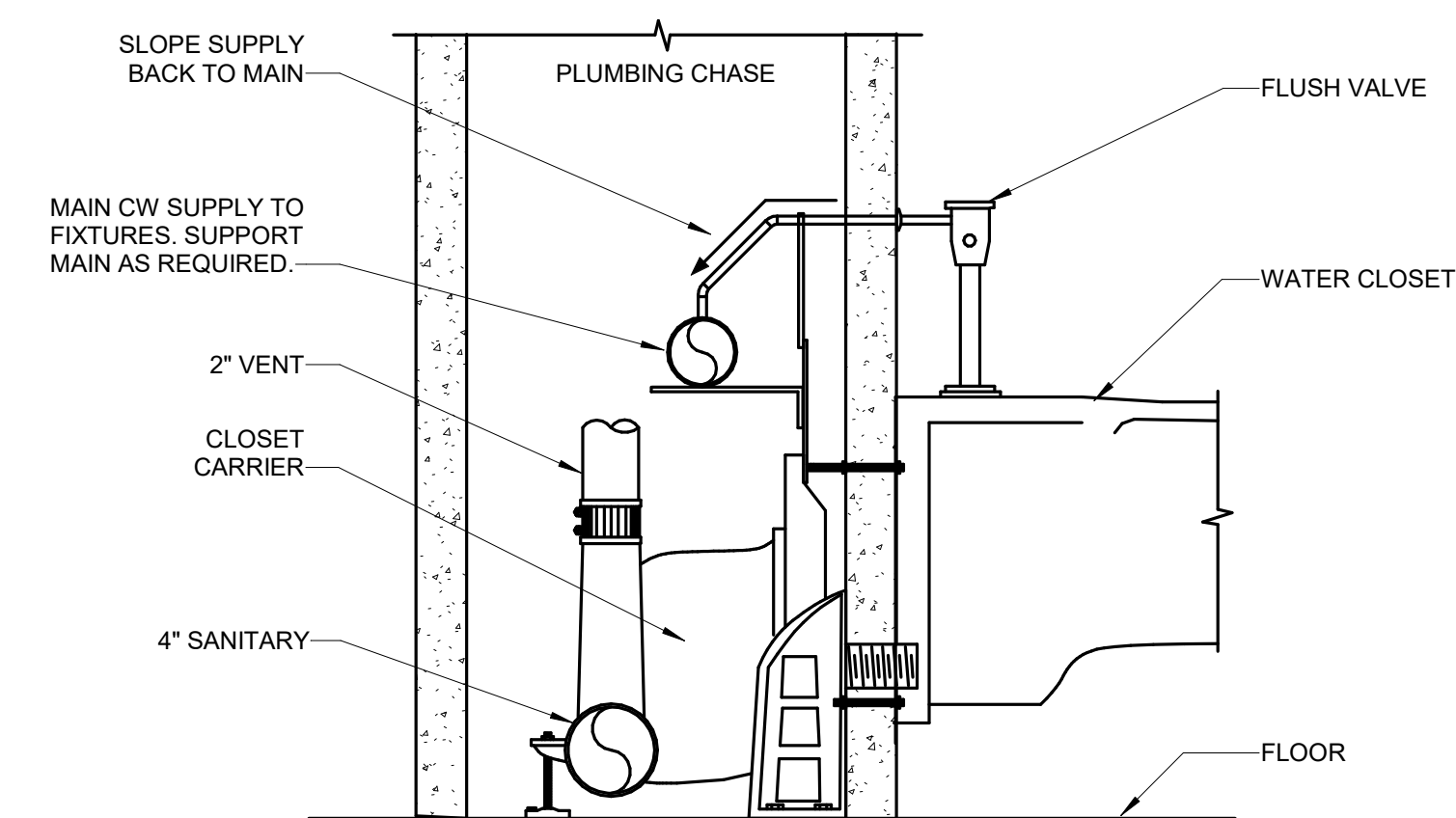
NOTES:

- ALL WATER PIPING BEFORE STOPS SHALL BE INSTALLED IN CHASE BEHIND FIXTURES.
- DETAIL APPLIES TO SINGLE APPLICATION ALSO. DELETE ALL FIXTURES AFTER FIRST LAV OR SINK SHOWN.
- DISTANCE "A" FROM HOT WATER MAIN TO HOT WATER SIDE OF FAUCET TO BE NO MORE THAN 2 FEET.
- P-TRAP AND HW SUPPLY LINES TO BE INSULATED ON ALL ADA LAVS.

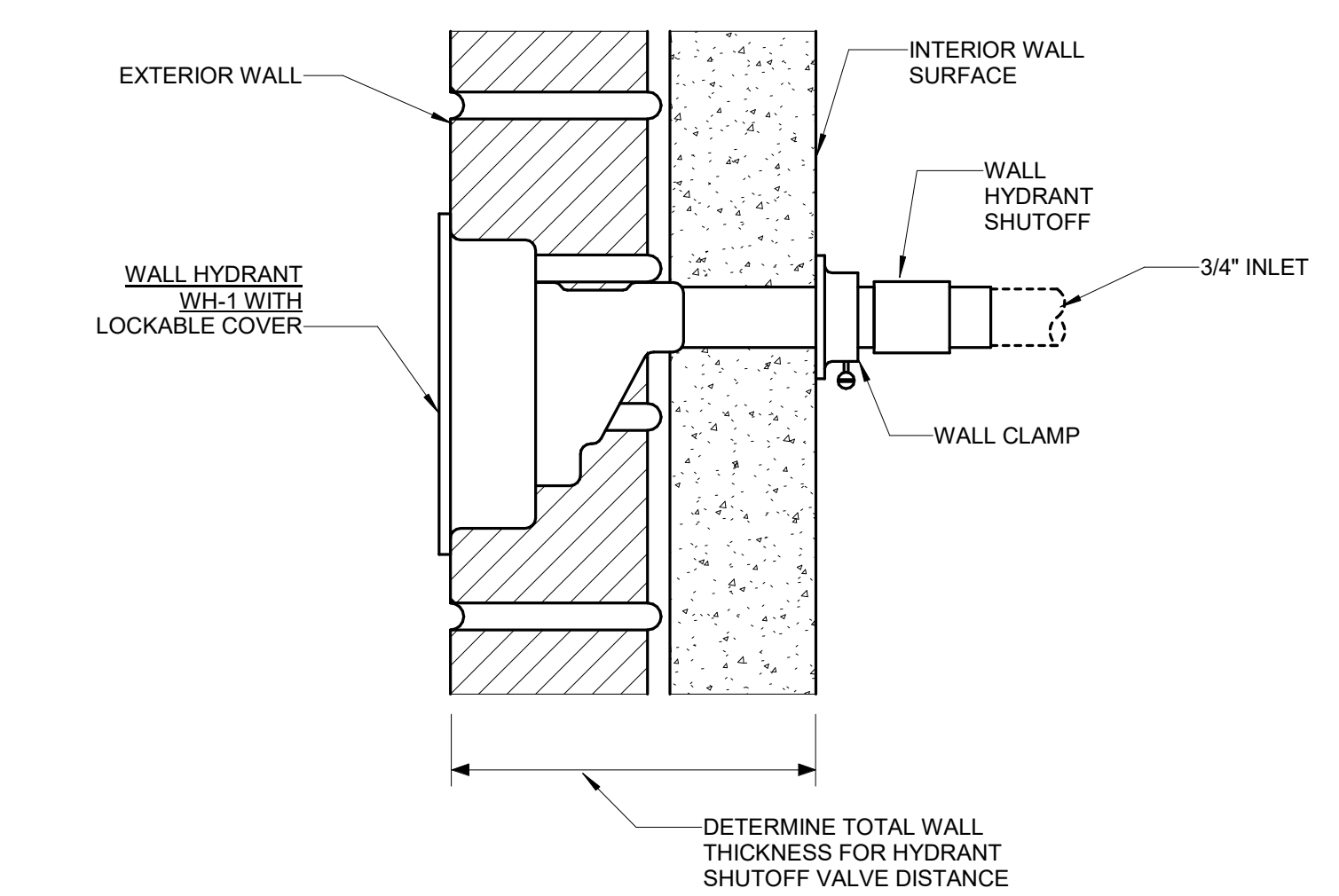


NOTES:
1. ALSO APPLIES TO SINGLE FIXTURE BATTERY MAIN DRAIN DOWN.

7 TYPICAL TOILET DRAIN DOWN DETAIL
NO SCALE

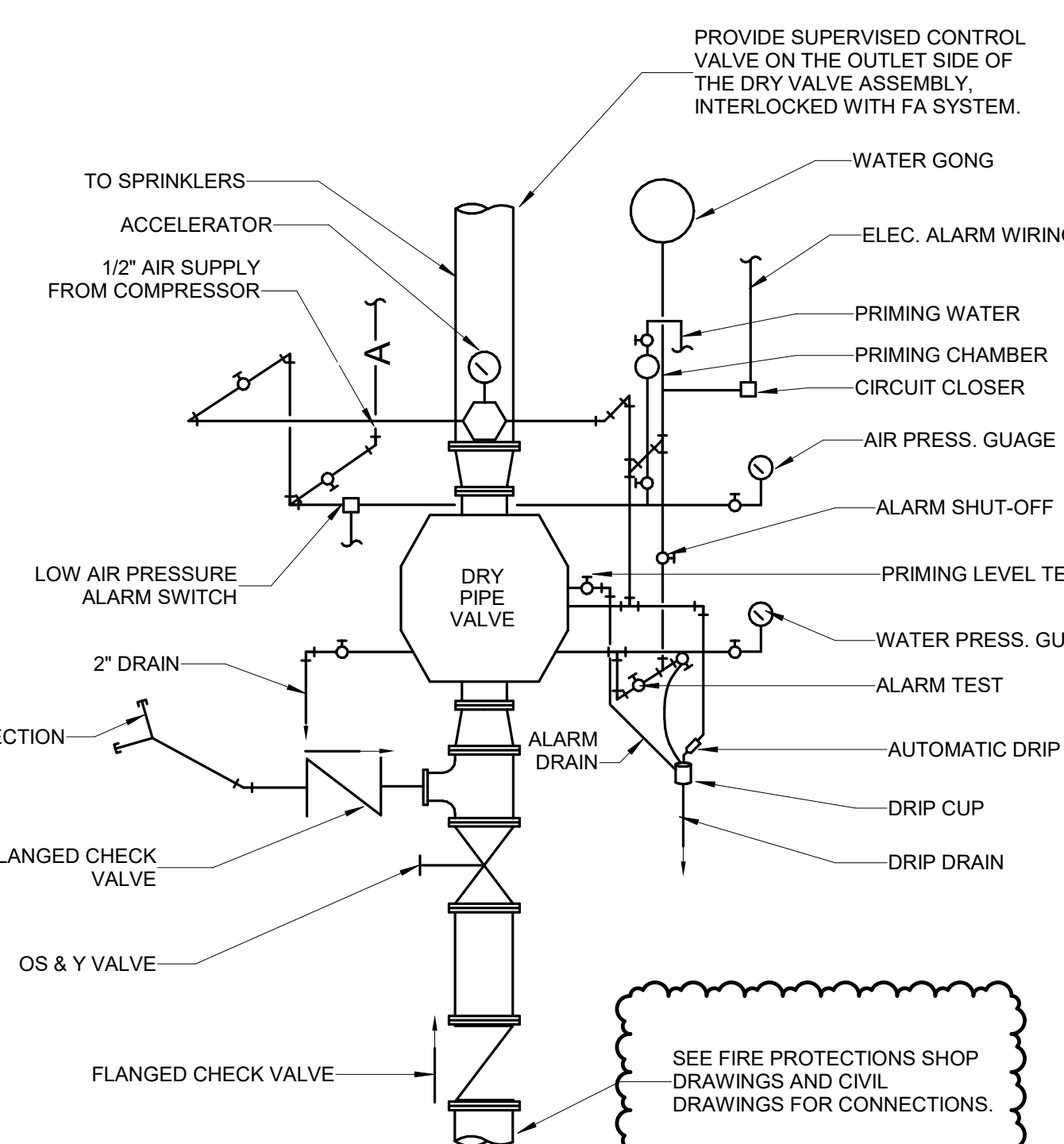


8 TYP FIXTURE DRAIN DOWN ELEV DETAIL
NO SCALE



10 FREEZEPROOF WALL HYDRANT DETAIL
NO SCALE

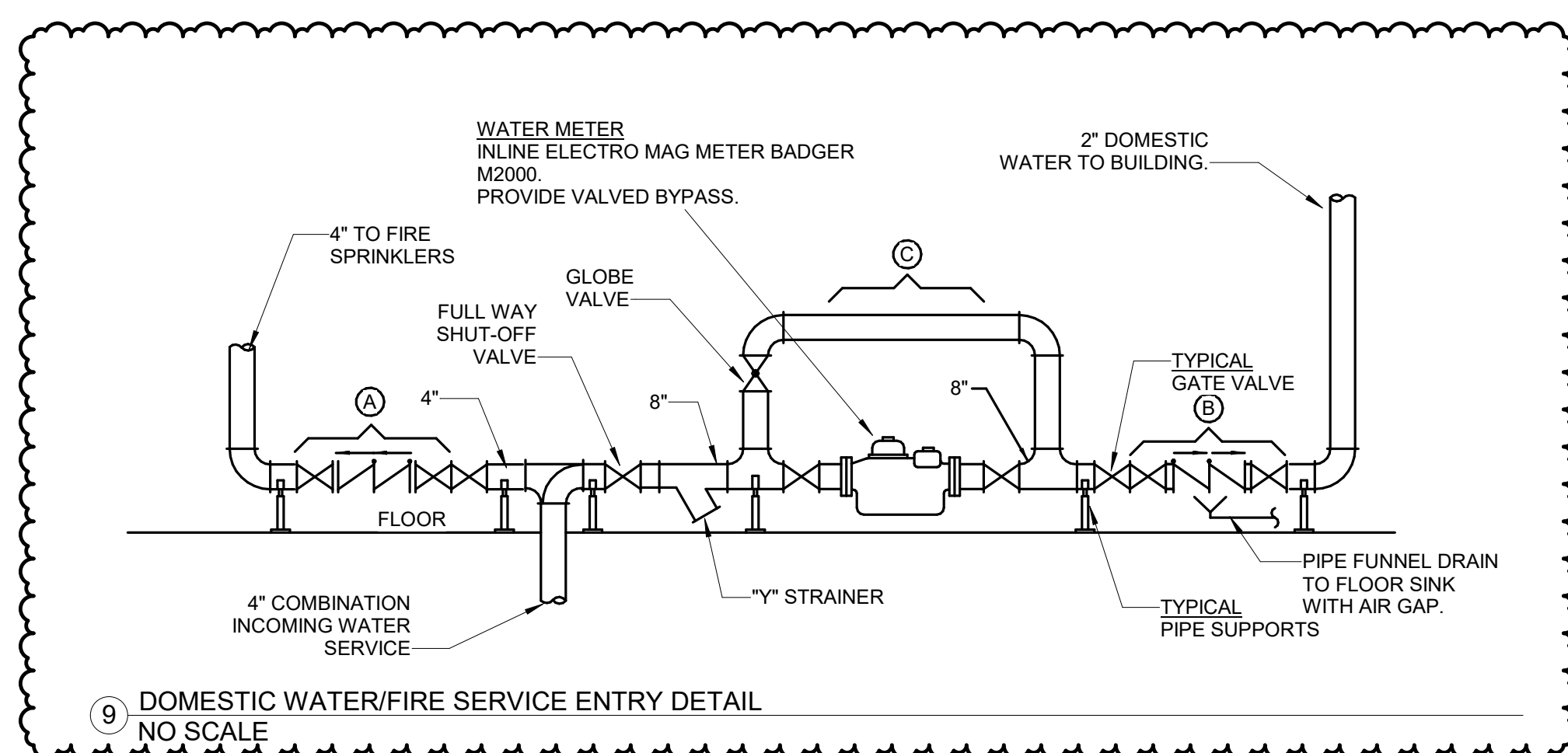
4 WATER HAMMER ARRESTOR INSTALLATION AND SIZING DETAIL
NO SCALE



NOTE: PROVIDE SUPERVISED CONTROL VALVE ON THE OUTLET SIDE OF THE DRY PIPE VALVE.

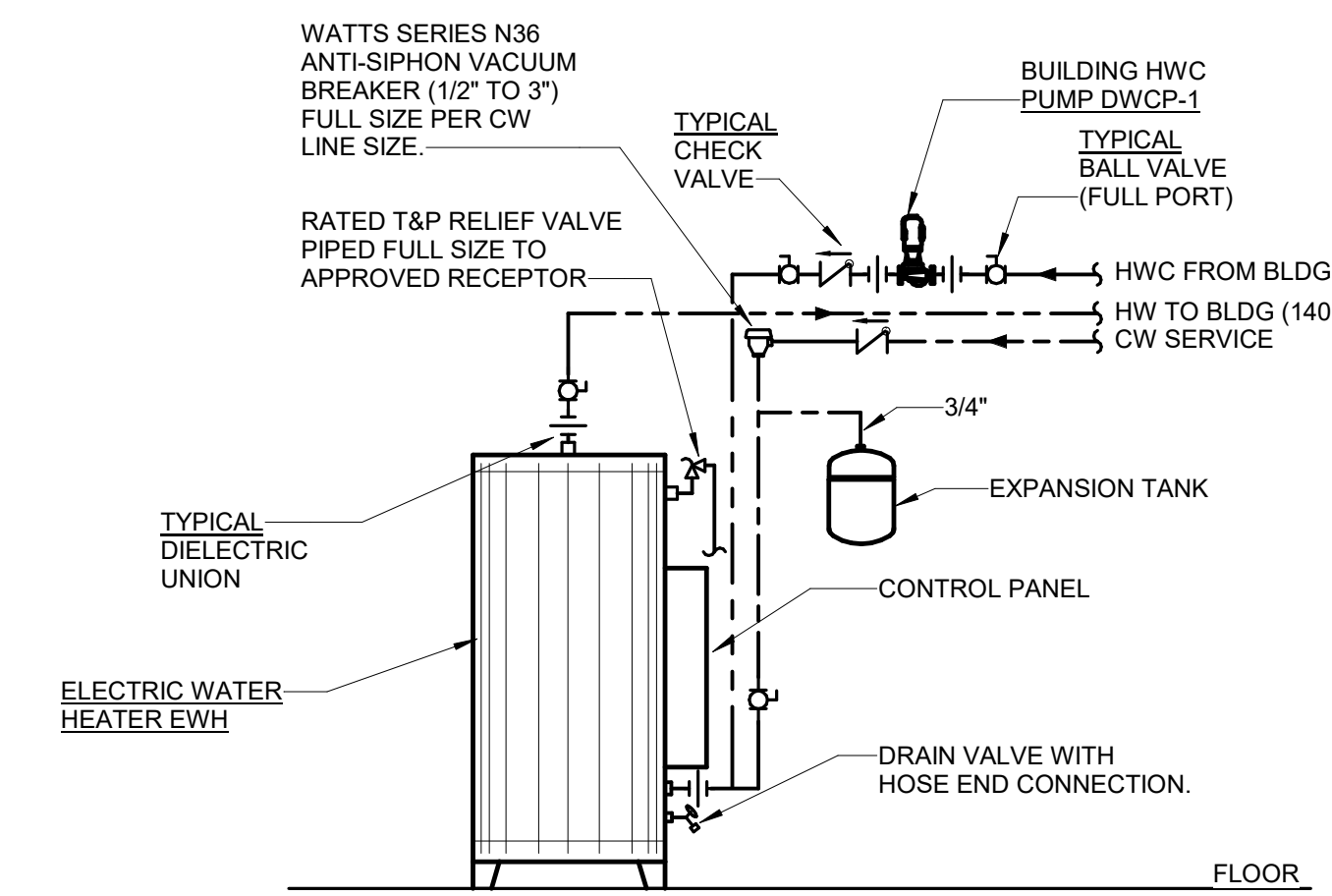
6 FIRE PROTECTION DRY VALVE RISER
NO SCALE

- A FIRE PROTECTION DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY.
- B DOMESTIC WATER REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY. PIPE TO FLOOR DRAIN.
- C 2\"/>

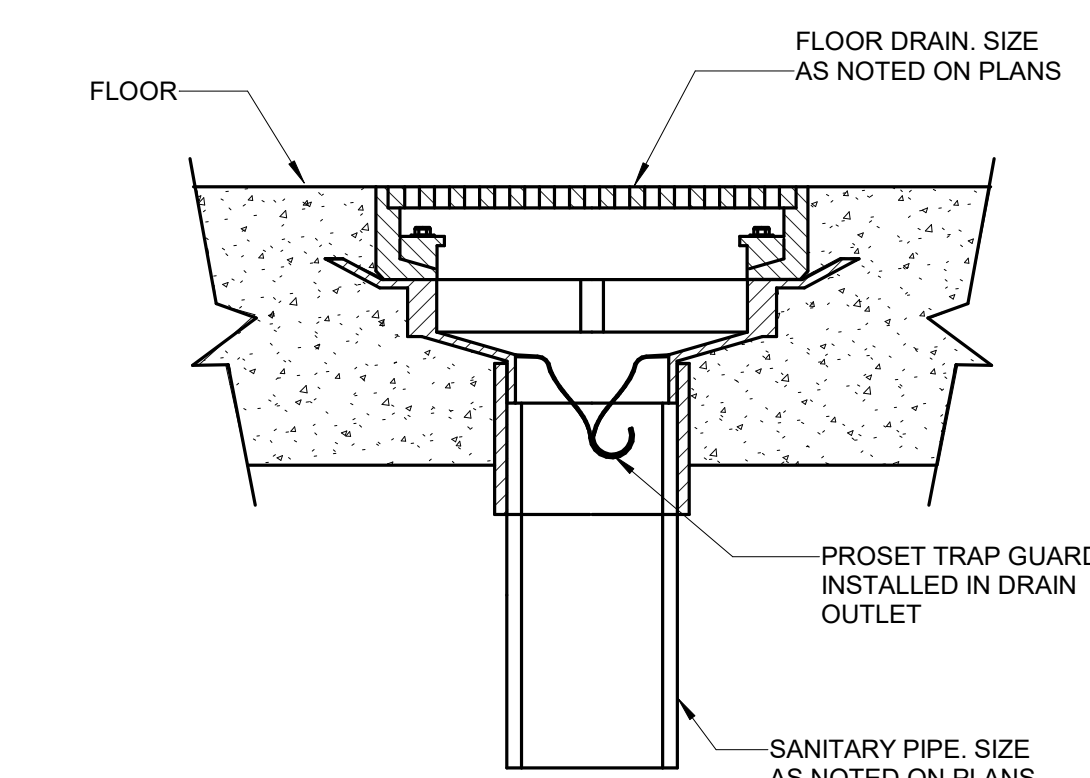


9 DOMESTIC WATER/FIRE SERVICE ENTRY DETAIL
NO SCALE

1 MANUAL PUBLIC LAV TEMPERING VALVE DETAIL
NO SCALE



2 ELECTRIC WATER HEATER DETAIL
NO SCALE



3 TRAP GUARD DETAIL
NO SCALE

SHEET TITLE: PLUMBING DETAILS

REV	DATE	DESCRIPTION
2	10/24/2023	Addendum 4

UWSA NO.	A-22-011
SET TYPE	BID SET
DATE	31 AUG 23
SHEET NO.	P9.1