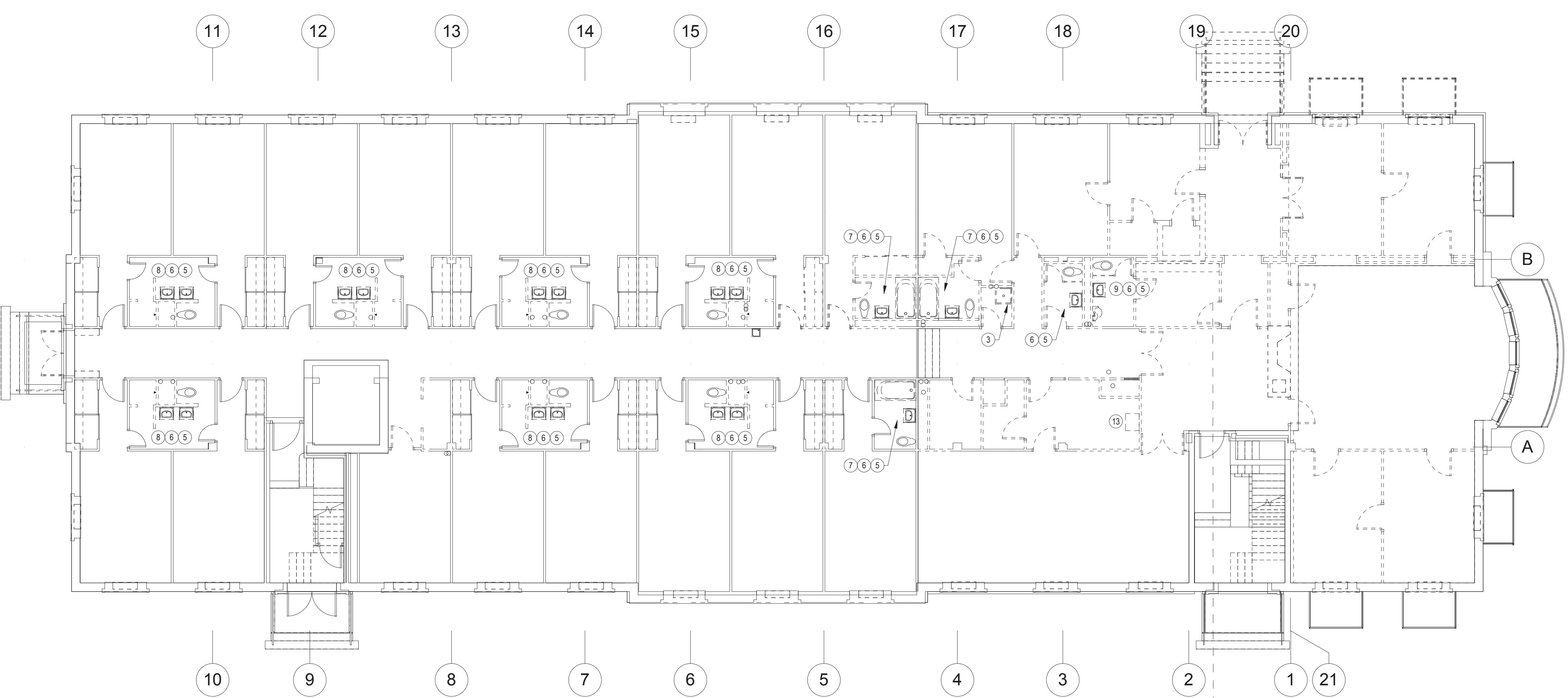


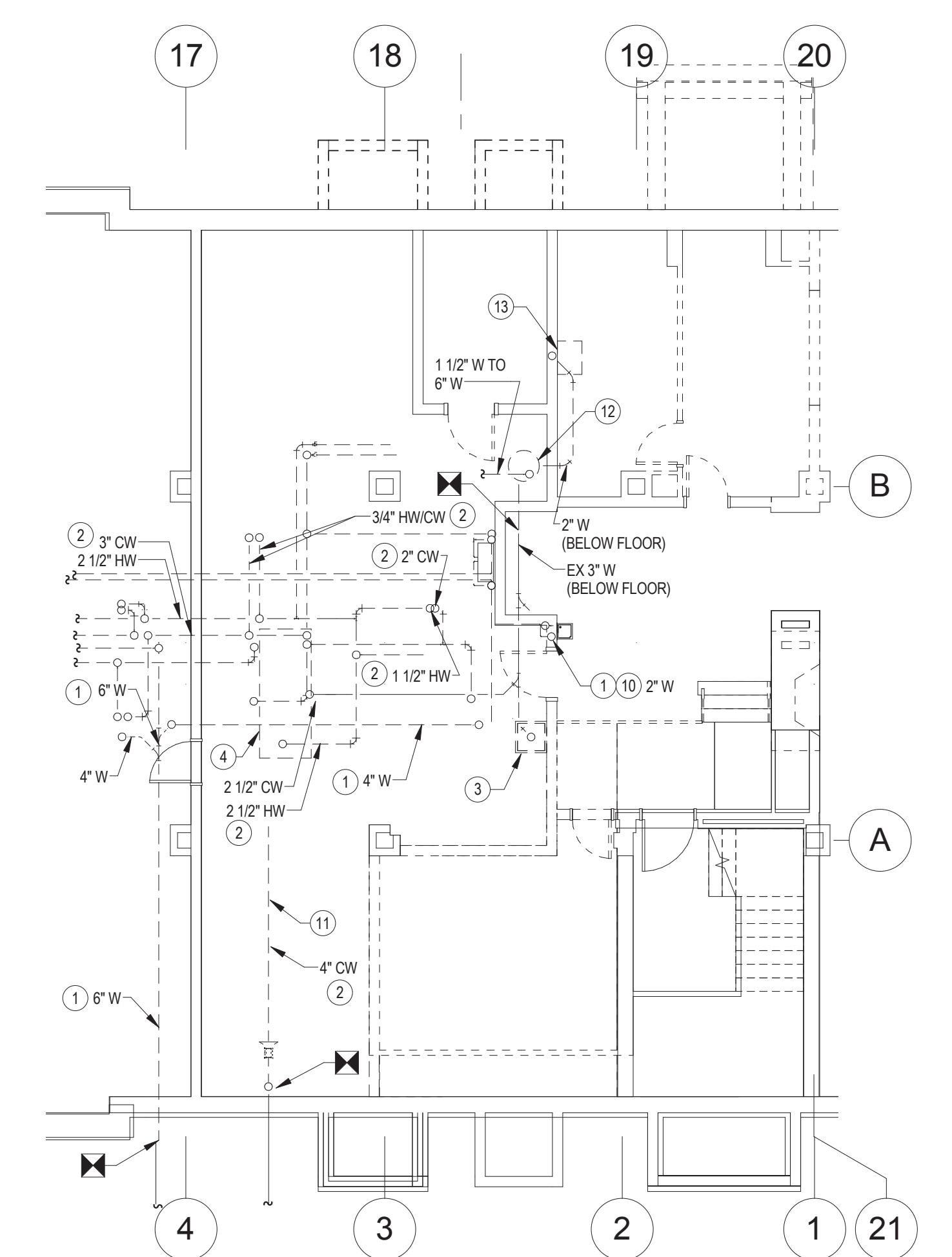
**DEMOLITION NOTES** (ALL NOTES MAY NOT APPLY TO THIS SHEET)

- 1 REMOVE ALL WASTE PIPING DOWN TO LAST FITTING ABOVE BASMENT SLAB INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, FITTINGS AND APPURTENANCES. CLOSELY COORDINATE WASTE PIPING EXTENT OF DEMOLITION WITH NEW WORK. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 2 REMOVE ALL DOMESTIC WATER PIPING COMPLETE INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, FITTINGS AND APPURTENANCES. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 3 REMOVE MOP SINK, ALL ASSOCIATED HOT WATER AND COLD WATER, WASTE AND VENT PIPING DOWN TO BELOW FLOOR. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 4 REMOVE INSTANTANEOUS HOT WATER HEATER, ALL ASSOCIATED SUPPORTS, DOMESTIC WATER AND STEAM PIPING AND APPURTENANCES. REFER TO MECHANICAL DRAWINGS FOR RELATED STEAM PIPING DEMOLITION.
- 5 REMOVE WATER CLOSET AND ALL ASSOCIATED COLD WATER AND SANITARY PIPING COMPLETE INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS AND APPURTENANCES. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 6 REMOVE LAVATORY AND ALL ASSOCIATED COLD WATER, SANITARY AND VENT PIPING COMPLETE INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS AND APPURTENANCES. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 7 REMOVE BATHTUB AND ALL ASSOCIATED HOT AND COLD WATER, SANITARY AND VENT PIPING COMPLETE INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS AND APPURTENANCES. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 8 REMOVE SHOWER HEAD AND ALL ASSOCIATED HOT AND COLD WATER PIPING COMPLETE INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS AND APPURTENANCES. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 9 REMOVE URINAL AND ALL ASSOCIATED COLD WATER, SANITARY AND VENT PIPING COMPLETE INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS AND APPURTENANCES. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 10 REMOVE WATER FOUNTAIN AND ALL ASSOCIATED COLD WATER, SANITARY AND VENT PIPING COMPLETE INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS AND APPURTENANCES. PATCH AND REPAIR SURFACES TO MATCH EXISTING.
- 11 CAREFULLY REMOVE EX 3" WATER METER INCLUDING ALL ASSOCIATED POWER AND CONTROL WIRING AND STORE FOR RE-USE.
- 12 REMOVE 24" DIA x 3'-0" DEEP SUMP COMPLETE INCLUDING ALL ASSOCIATED PIPING, CONTROLS AND APPURTENANCES
- 13 REMOVE SINK AND ALL ASSOCIATED COLD WATER, SANITARY AND VENT PIPING COMPLETE INCLUDING ALL ASSOCIATED APPURTENANCES. PATCH AND REPAIR SURFACES TO MATCH EXISTING.



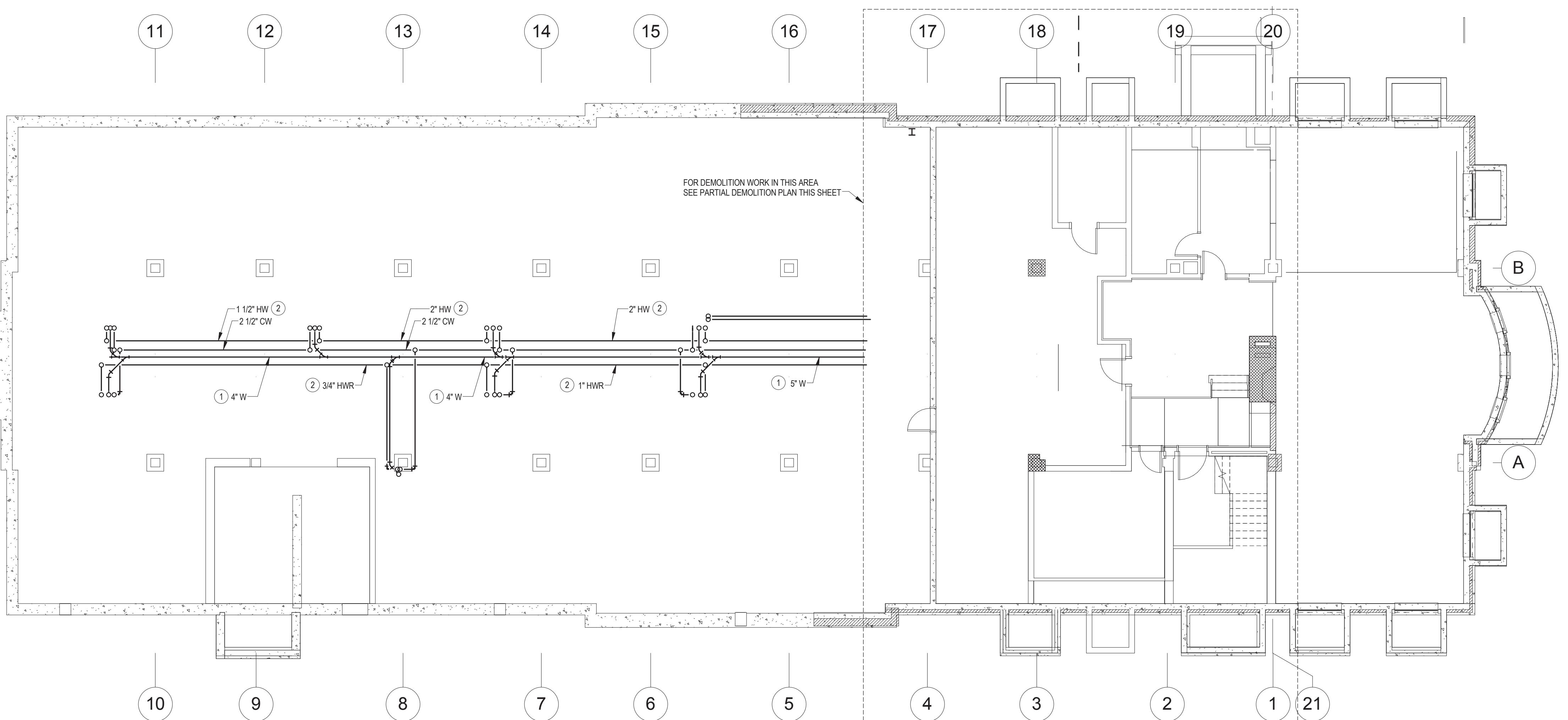
FIRST FLOOR PLAN - PLUMBING DEMOLITION

SCALE: 1/8" = 1'-0"



PARTIAL BASEMENT FLOOR PLAN - PLUMBING DEMOLITION

SCALE: 1/8" = 1'-0"



BASEMENT FLOOR PLAN - PLUMBING DEMOLITION

SCALE: 1/8" = 1'-0"

GRAPHIC SCALE  
1/8" = 1'-0"  
0 4 8 12

**VMDO ARCHITECTS**

200 E MARKET STREET  
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**RU**  
**RADFORD**  
**UNIVERSITY**

RENOVATION OF THREE  
RESIDENCE HALLS  
DRAPER HALL

RADFORD UNIVERSITY  
RADFORD, VIRGINIA

Project Code  
VMDO Project Number  
217-17565-002  
1115

Checked By  
MGW  
Drawn by  
NMF

Note: Modifications to the bid documents that were issued by addenda have been incorporated into these drawings for the convenience of the Contractor. In the event of discrepancies between the originally issued addenda and changes depicted on these drawings, the originally issued addenda shall take precedence.

GRAPHIC SCALE - 1/32" = 1'-0"  
0 32' - 0" 64' - 0" 96' - 0"

ISSUES AND REVISIONS  
NO. SUBMITTAL DATE  
BID DOCUMENTS  
1 Addendum 1 05.19.14  
2 Addendum 2 06.19.14  
3 Addendum 3 06.24.14  
CONSTRUCTION SET 06.25.14  
05.01.15

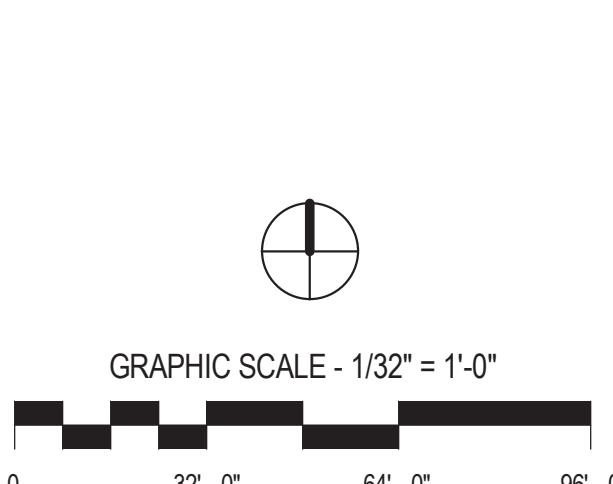
BASEMENT AND FIRST  
FLOOR PLANS -  
PLUMBING DEMOLITION

**PD101**



RENOVATION OF THREE  
RESIDENCE HALLS  
DRAPER HALLRADFORD UNIVERSITY  
RADFORD, VIRGINIAProject Code 217-17565-002  
VMDO Project Number 1115

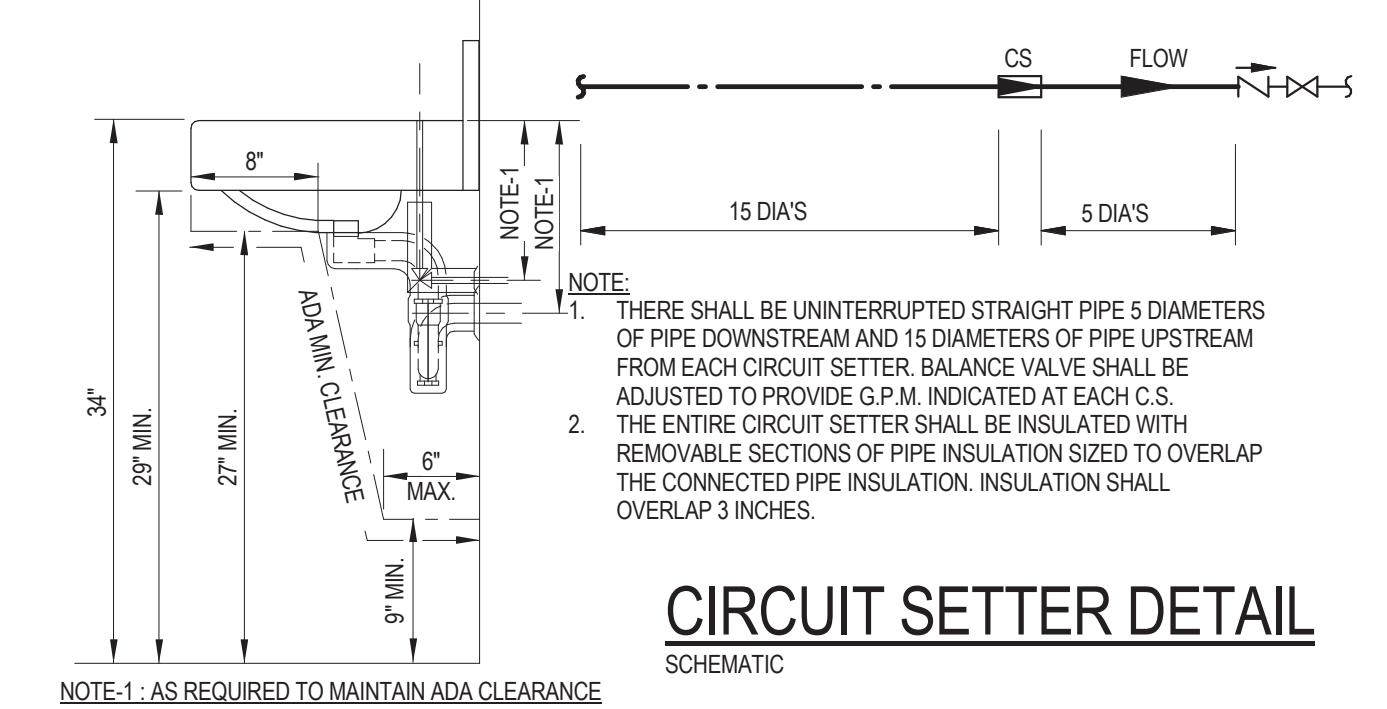
Note: Modifications to the bid documents that were issued by addenda have been incorporated into these drawings for the convenience of the Contractor. In the event of discrepancies between the originally issued addenda and changes depicted on these drawings, the originally issued addenda shall take precedence.



ISSUES AND REVISIONS	DATE
NO. SUBMITTAL	DATE
BID DOCUMENTS	05.19.14
1 Addendum 1	06.19.14
2 Addendum 2	06.24.14
3 Addendum 3	06.25.14
CONSTRUCTION SET	05.01.15

PLUMBING LEGEND,  
DETAILS AND NOTES

P001



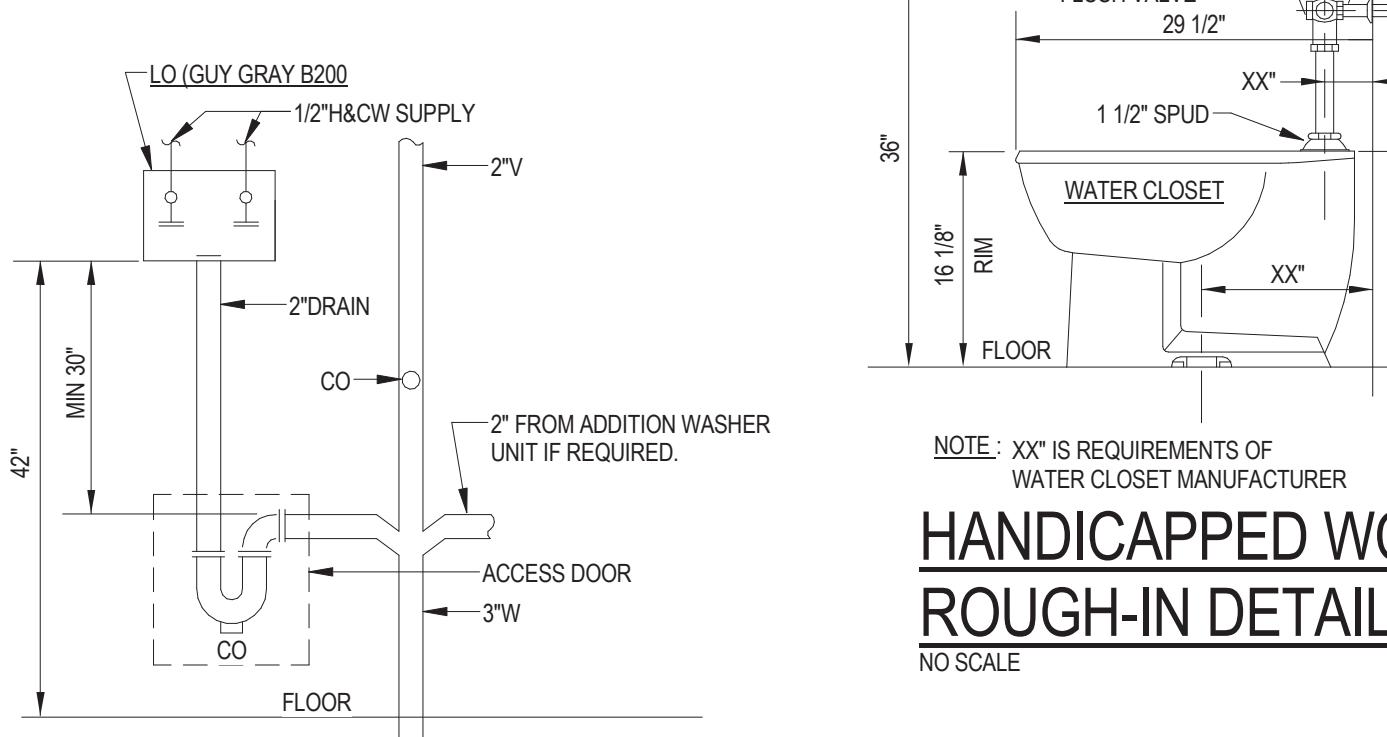
## CIRCUIT SETTER DETAIL

## HANDICAPPED LAVATORY L-3

## INSTALLATION ADA REQUIREMENTS

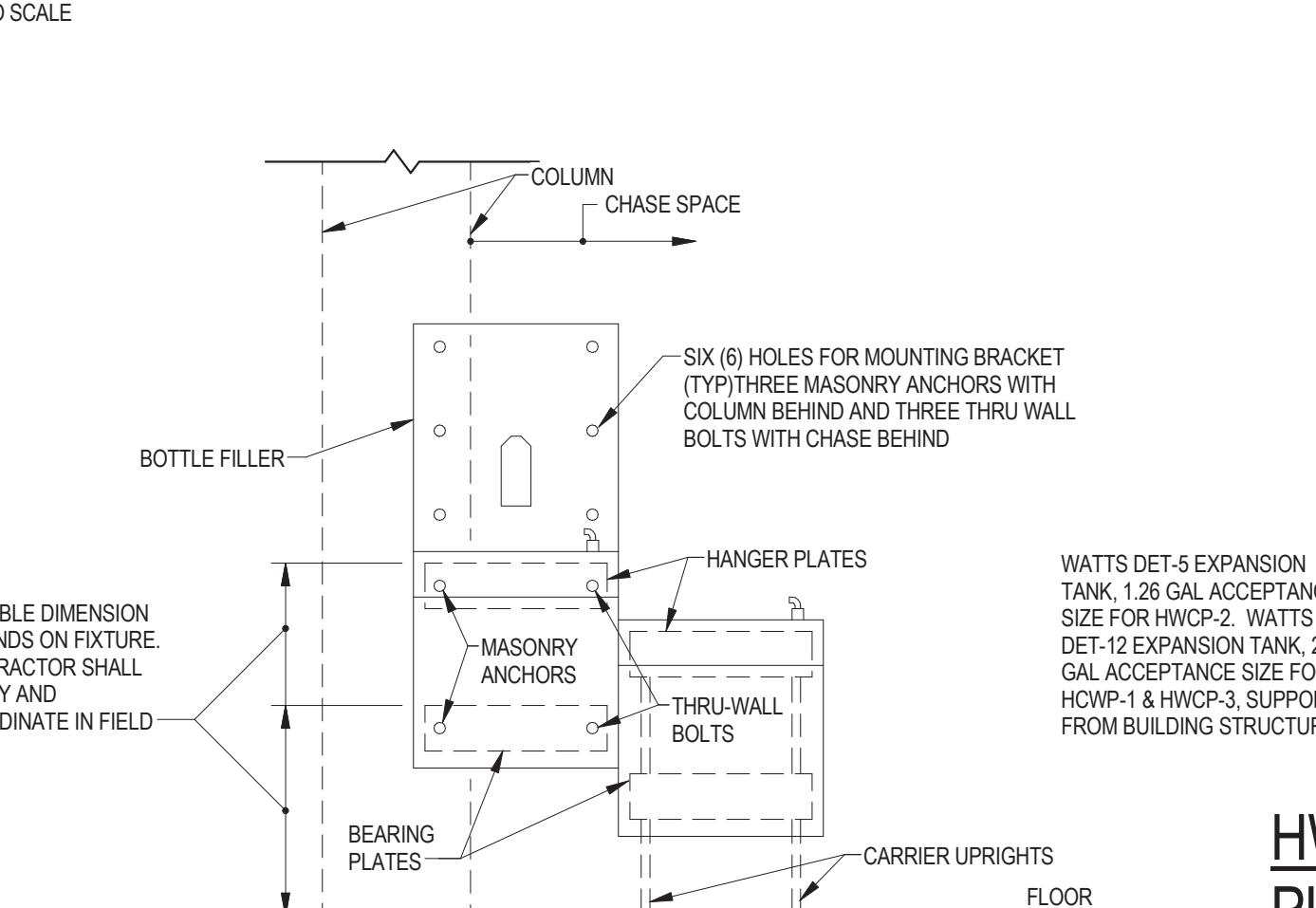
## WALL MOUNTED

NO SCALE

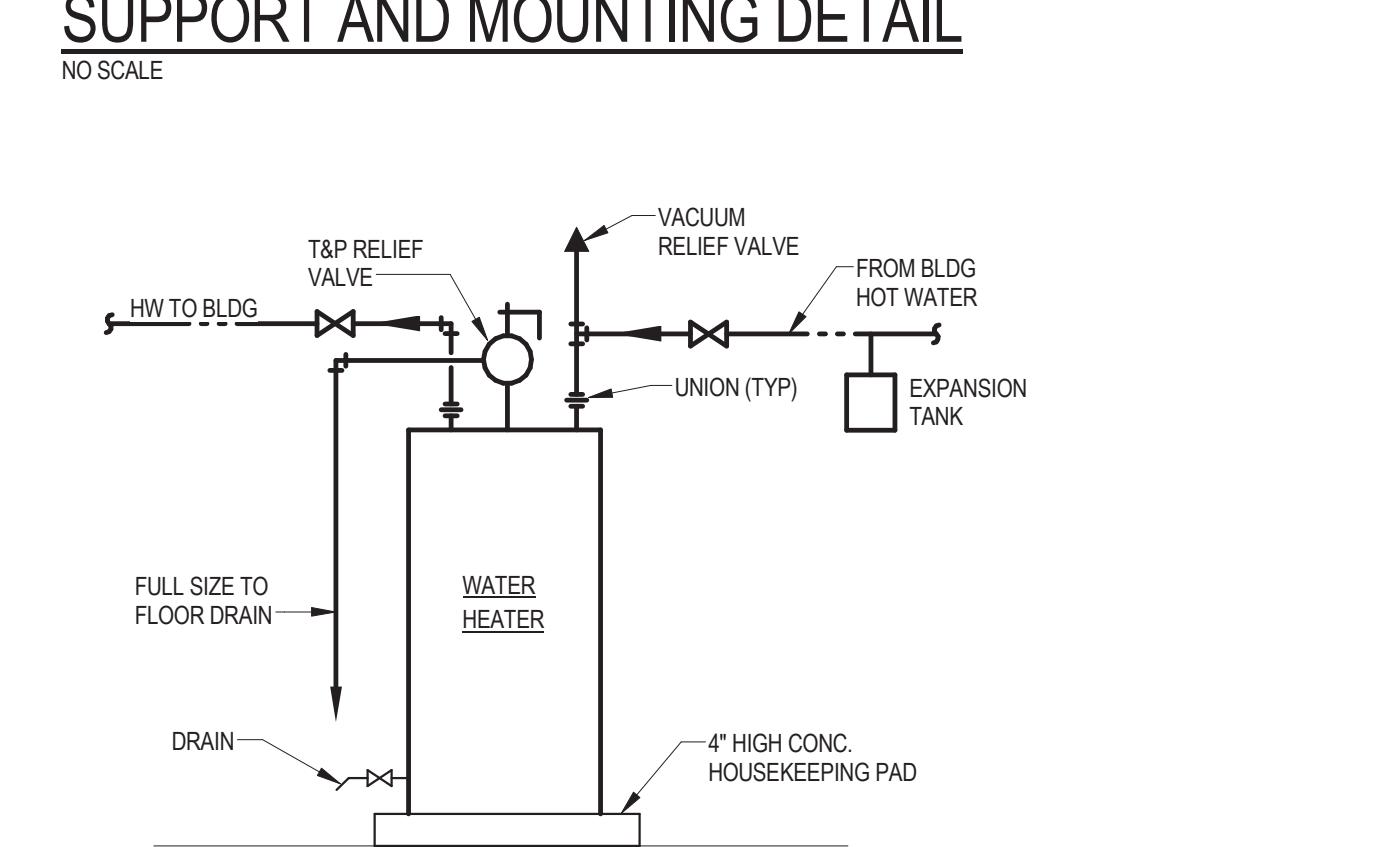


## LAUNDRY OUTLET UNIT DETAIL

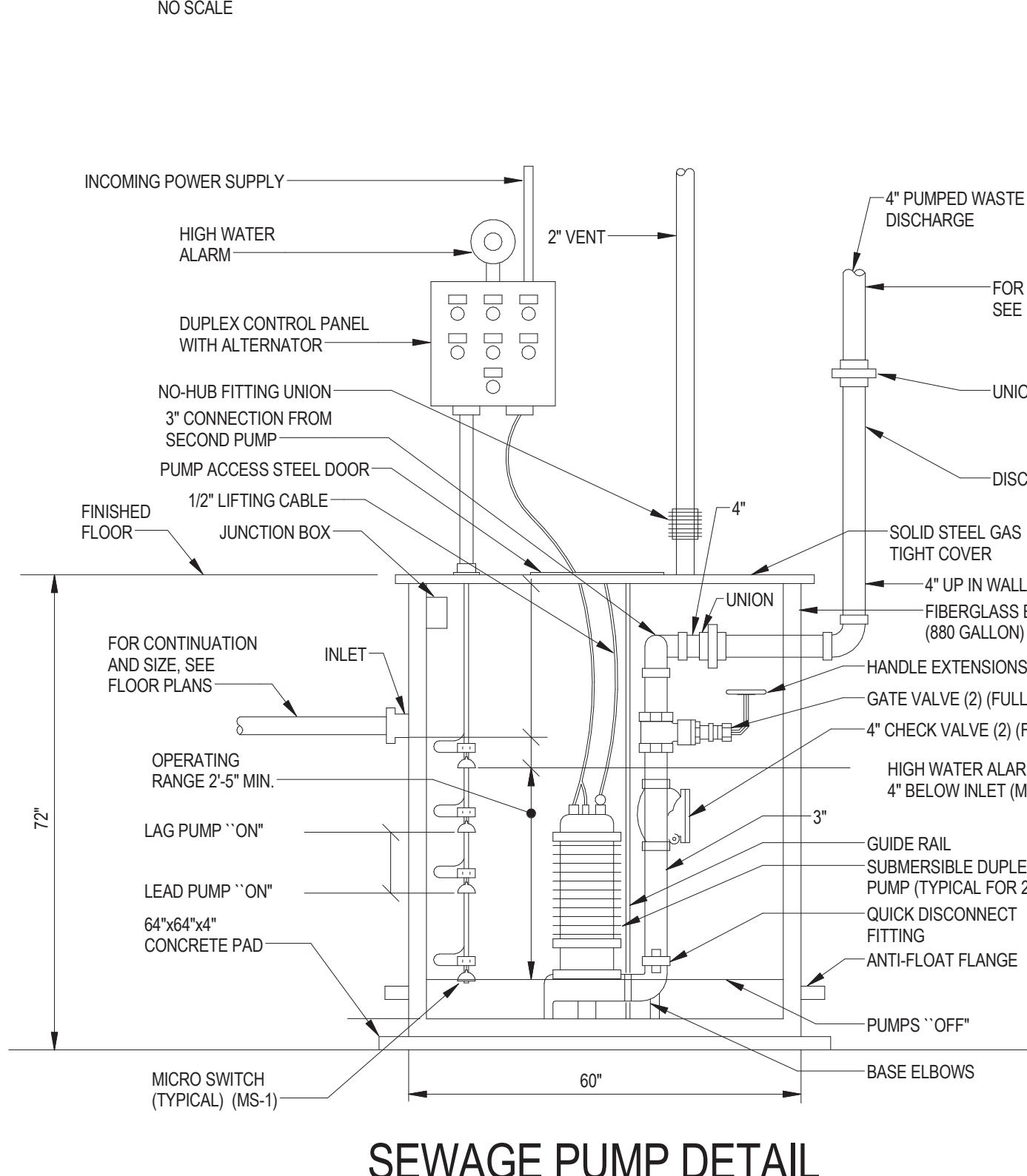
NO SCALE

SPLIT LEVEL EWC WITH BOTTLE FILLER  
SUPPORT AND MOUNTING DETAIL

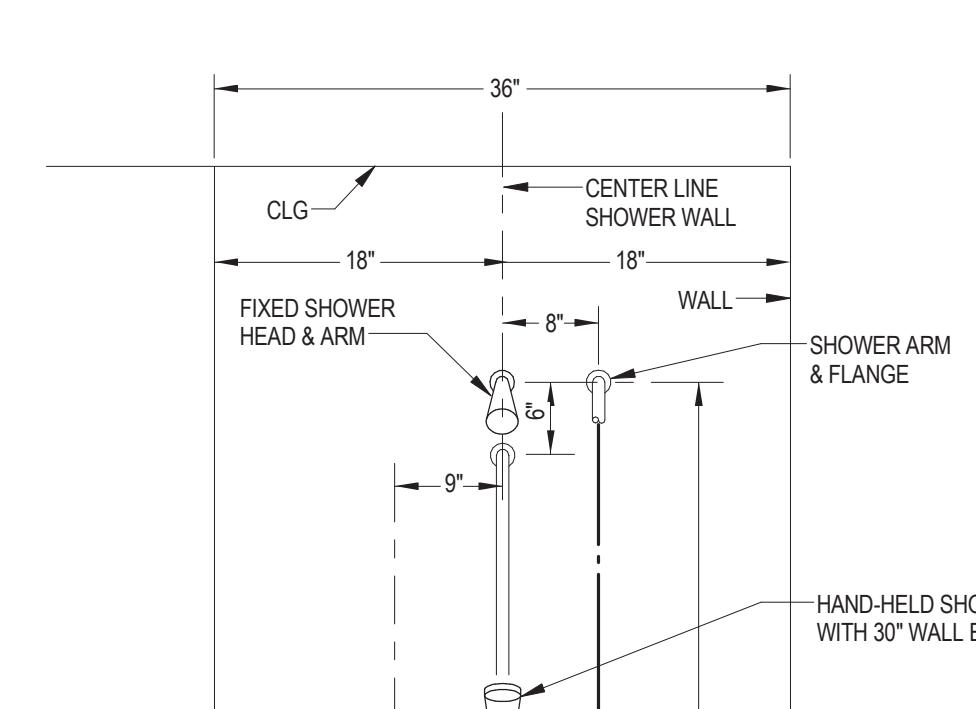
NO SCALE

DOMESTIC WATER HEATER WHR-2  
DETAIL - ELECTRIC

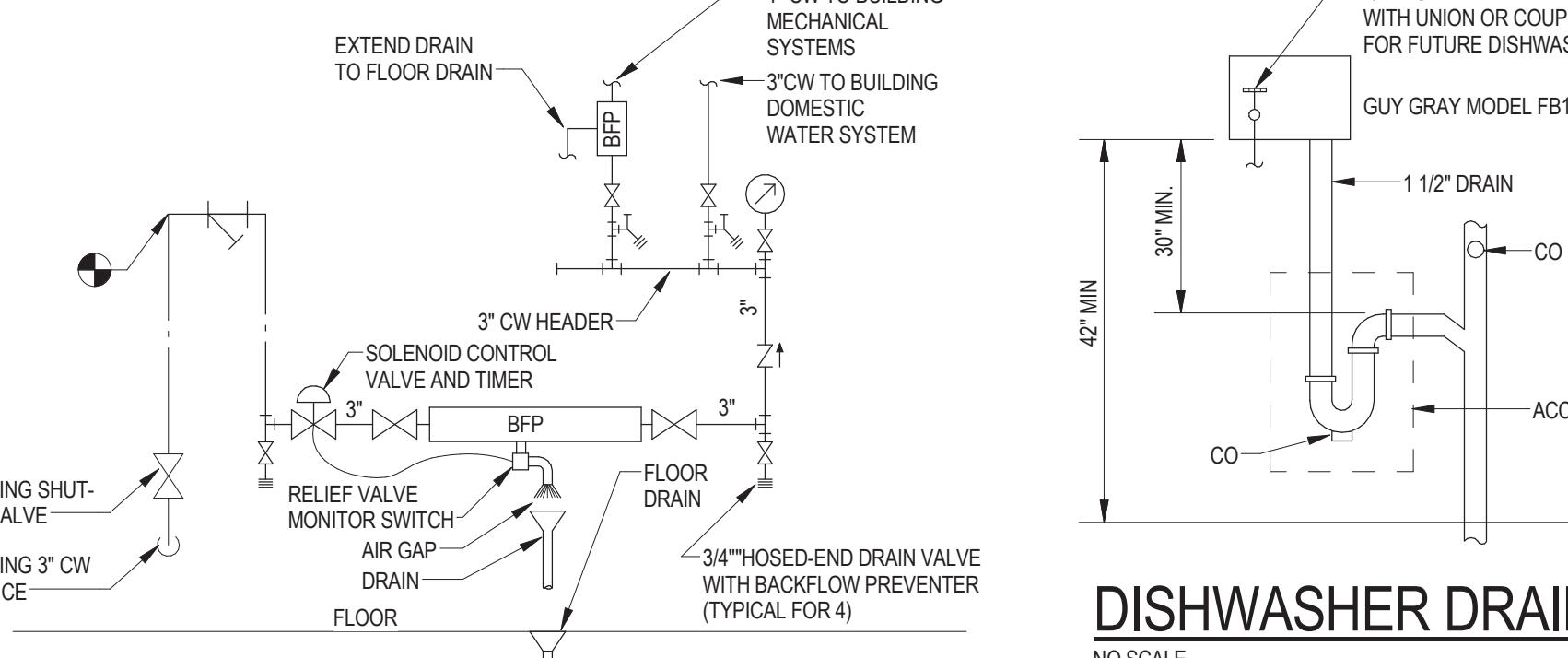
NO SCALE



NO SCALE

HANDICAPPED LAVATORY L-2  
INSTALLATION ADA  
REQUIREMENTS - COUNTER TOP

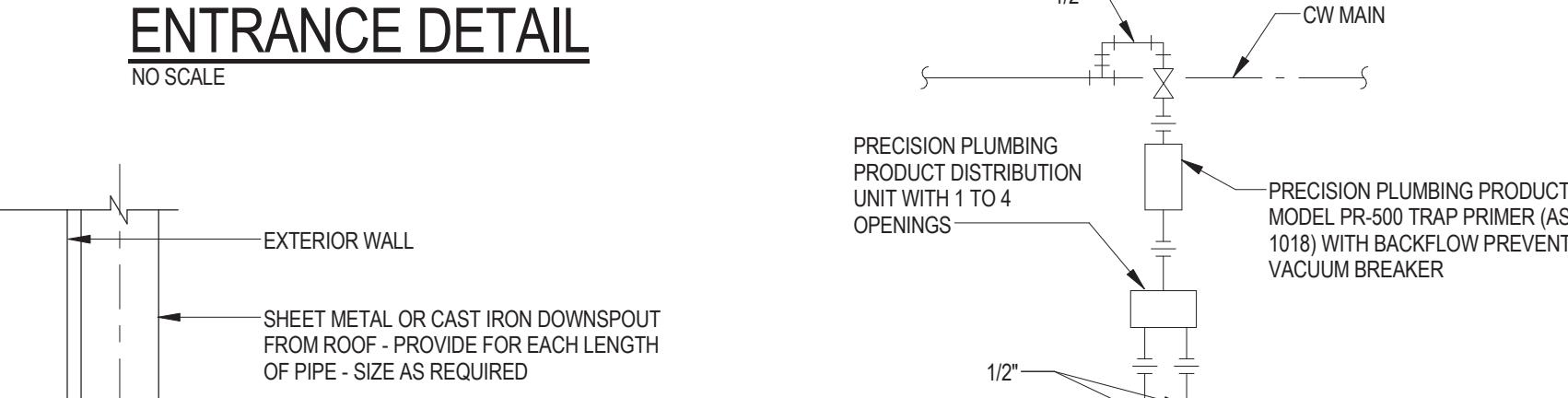
MARK	Fixture	WASTE	VENT	COLD	HOT	REMARKS
BT	BATH TUB	2"	1 1/2"	1/2"	1/2"	HANDICAPPED #
EWC	ELECTRIC WATER COOLER (HILLOW)	2"	1 1/2"	1/2"	1/2"	WALL MOUNTED, HANDICAPPED # LOW UNIT 36" FINISH FL TO SPOUT OUTLET, BOTTLE FILLER
L-1	LAVATORY	2"	1 1/2"	1/2"	1/2"	SOLID SURFACE INTEGRAL LAVATORY, SEE ARCHITECTURAL SPECIFICATIONS
L-2	LAVATORY	2"	1 1/2"	1/2"	1/2"	HANDICAPPED #
L-3	LAVATORY	1 1/4"	1 1/2"	1/2"	1/2"	
LO	LAUNDRY OUTLET	3"	1 1/2"	1/2"	1/2"	
LT	LAUNDRY TUB	3"	1 1/2"	1/2"	1/2"	
MS	MOP SINK	3"	1 1/2"	1/2"	1/2"	
SH-1	SHOWER	2"	1 1/2"	1/2"	1/2"	HANDICAPPED #
SH-2	SHOWER	2"	1 1/2"	1/2"	1/2"	HANDICAPPED #
SK	SINK (SINGLE COMPARTMENT)	2"	1 1/2"	1/2"	1/2"	HANDICAPPED #
WC-1	WATER CLOSET (FLUSH VALVE)	4"	2"	1"	1"	FLOOR MOUNTED, HANDICAPPED #
WC-2	WATER CLOSET (FLUSH VALVE)	4"	2"	1"	1"	FLOOR MOUNTED, HANDICAPPED # SENSOR OPERATED
WC-3	WATER CLOSET (FLUSH VALVE)	4"	2"	1"	1"	FLOOR MOUNTED, HANDICAPPED #

H/C SHOWER FIXTURE SH-2  
MOUNTING HEIGHTS

SCALE: 34" = 1'-0"

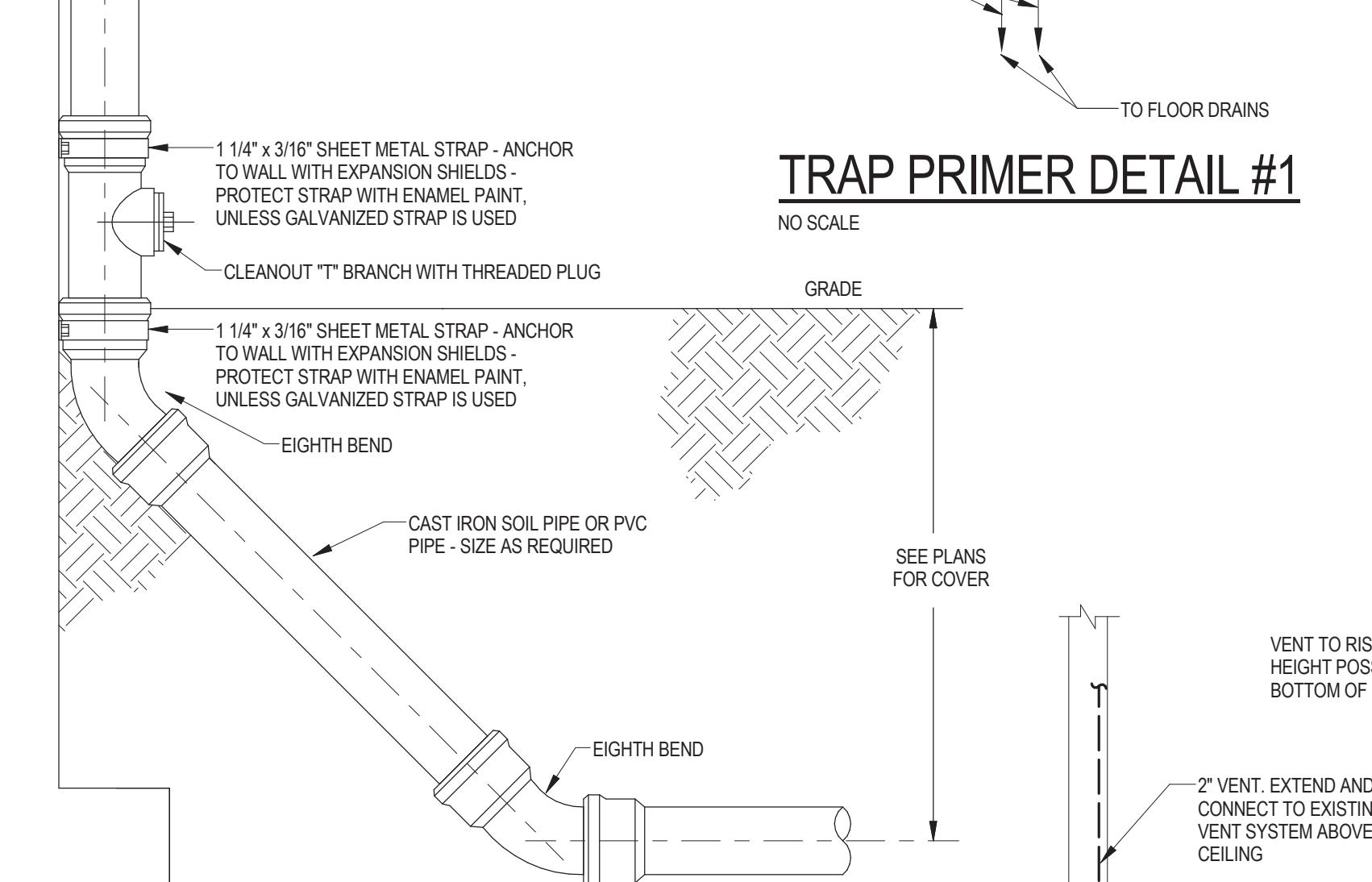
DOMESTIC WATER SERVICE  
ENTRANCE DETAIL

NO SCALE



## DISHWASHER DRAIN

NO SCALE

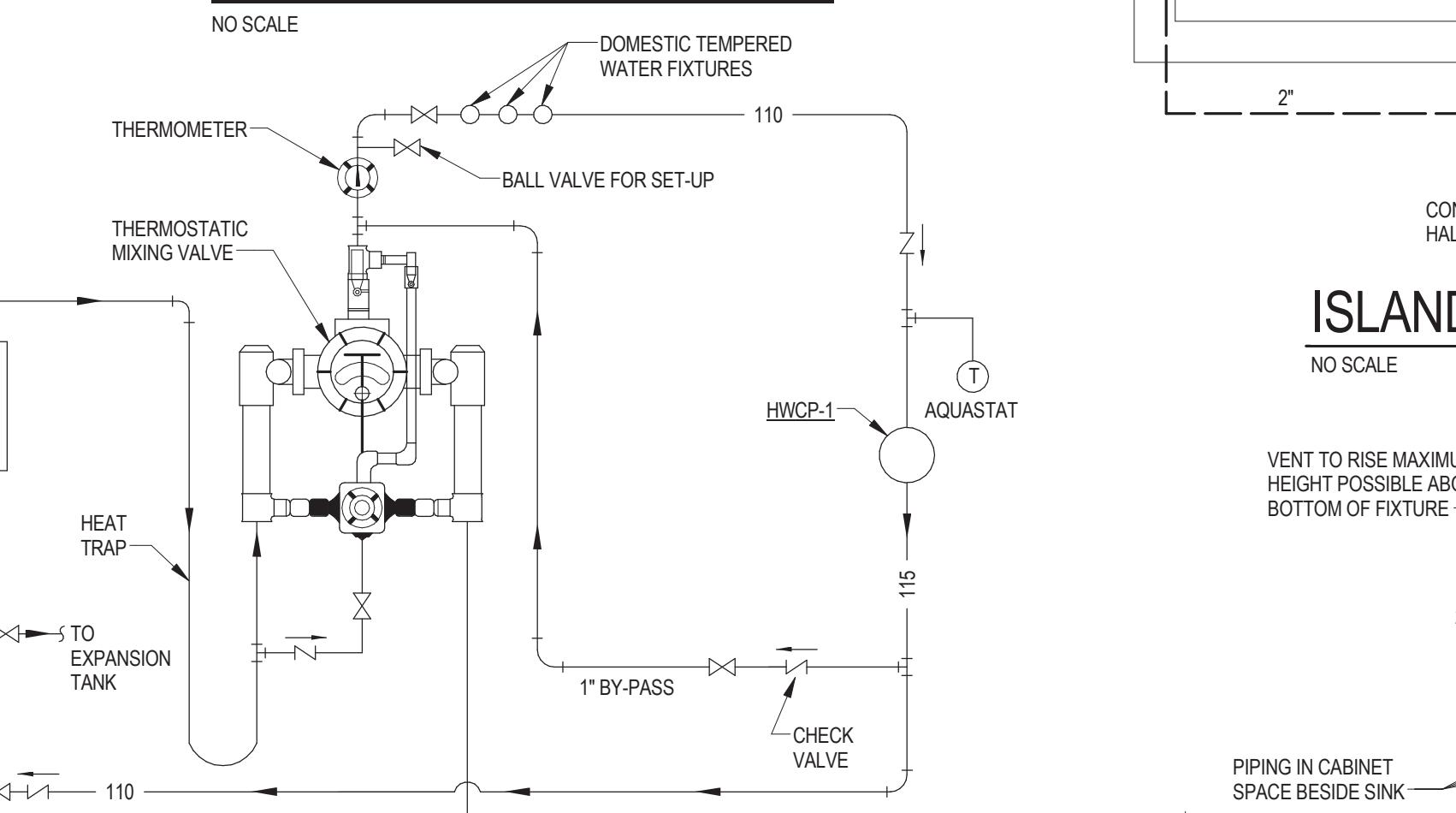


## TRAP PRIMER DETAIL #1

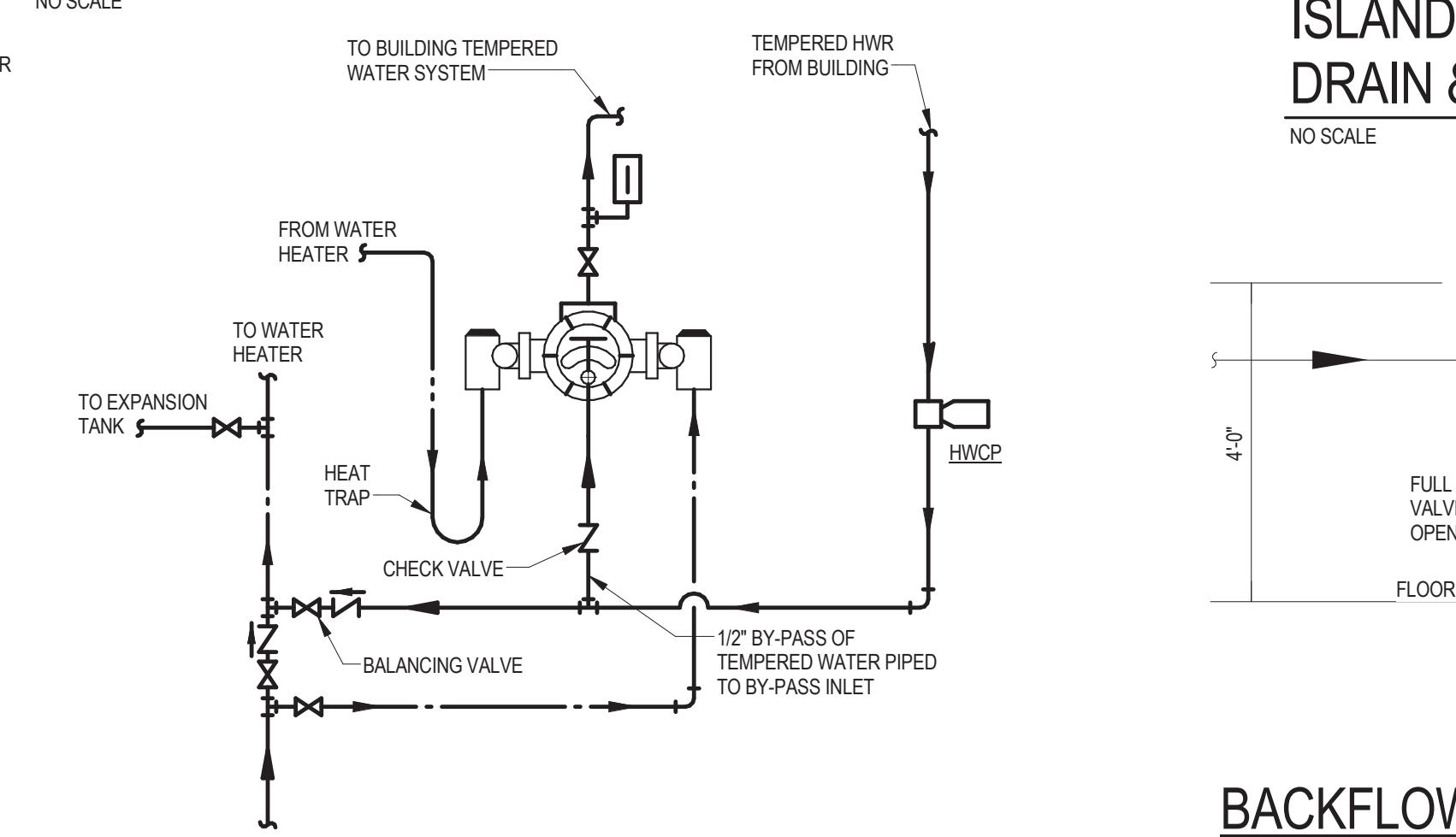
NO SCALE

## DOWNSPOUT SHOE DETAIL

NO SCALE

HIGH/LOW MANIFOLD MANIFOLD  
TV-1 TEMPERING SYSTEM

NO SCALE



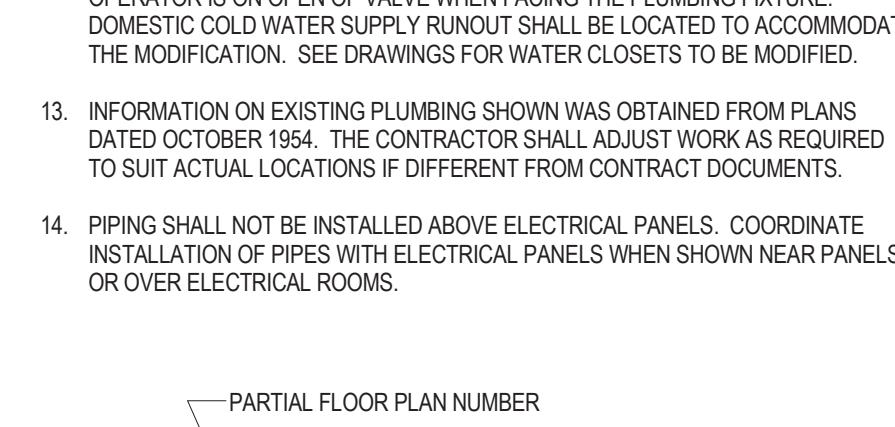
## TEMPERING VALVE DETAIL TV-2 &amp; TV-3

NO SCALE

## PLUMBING GENERAL NOTES:

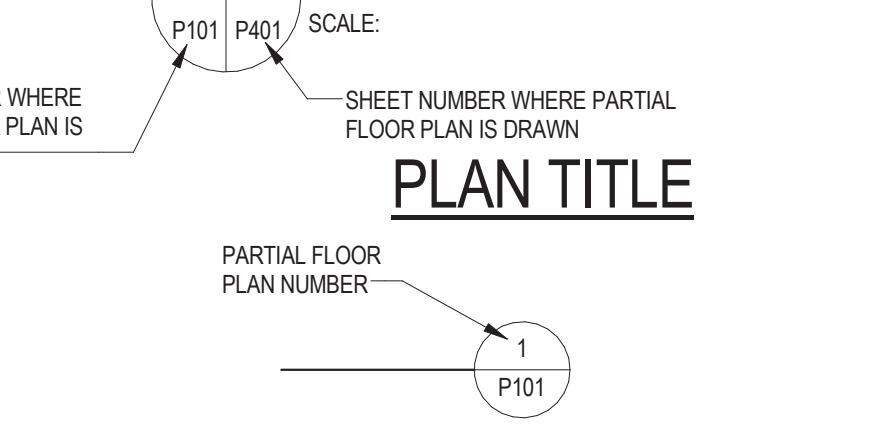
1. MAKE PIPING CONNECTIONS AS REQUIRED TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
2. CHECK WITH ARCHITECTURAL WORKING DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES.
3. SLOPES AND INVERT ELEVATIONS OF SEWERS, MANHOLES, ETC. SHALL BE ESTABLISHED AND VERIFIED BY CONTRACTOR FOR ANY PIPING INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED AND NECESSARY INVERT ELEVATIONS OBTAINED.
4. ALL PIPES SHALL BE COORDINATED WITH OTHER NEW AND EXISTING DUCTS, PIPES, LIGHTS, STRUCTURAL SYSTEMS, SUPPORTS AND TRIMMING BEFORE INSTALLATION. PIPE OFFSETS SHALL BE PROVIDED AS REQUIRED. MEASUREMENTS FOR VERTICAL CLEARANCES SHALL BE TAKEN AT THE JOB SITE BEFORE INSTALLATION OF ANY PIPING.
5. WASTE PIPE BELOW FLOOR, VENT PIPING ABOVE CEILING, PIPING OFFSET FOR CLARITY.
6. DOMESTIC WATER PIPING SHALL BE INSTALLED ABOVE CEILINGS UNLESS NOTED OTHERWISE. DOMESTIC WATER PIPING SHOWN IN PIPES CHASE WALLS SHALL BE INSTALLED IN CHASE SPACE. PIPING OFFSET FOR CLARITY.
7. DOMESTIC WATER PIPING SHALL NOT BE INSTALLED IN LOCATIONS SUBJECT TO FREEZING OR SPACES EXTERIOR TO BUILDING INSULATION.
8. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS PUBLISHED INSTRUCTIONS.
9. MATERIALS AND INSTALLATION SHALL COMPLY WITH LOCAL CODES. APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION, LOCAL UTILITY REGULATIONS AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
10. WHERE PIPE CONNECTIONS ARE SHOWN CONNECTING TO EXISTING, CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND CONNECTIONS PRIOR TO INSTALLATION.
11. LIMITS OF CONTRACT: DOMESTIC WATER SERVICE, AND SANITARY PIPING SHALL BE EXTENDED UNDER THIS SECTION OF THE SPECIFICATIONS TO POINTS 5' BEYOND THE BUILDING LINES. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, WHERE THE PIPES SHALL BE CAPED OR PLUGGED AND LEFT READY FOR CONNECTION AND EXPANDED BY OTHERS, AND THE LOCATIONS MARKED WITH A STAKE OR OTHER APPROVED MEANS.
12. MODIFY PLUSH VALVE ON INDICATED WATER CLOSETS SO THAT OPERATOR IS ON OPEN SIDE WHEN FACING THE PLUMBING FIXTURE. DO NOT TURN OFF PLUSH VALVE UNLESS IT IS ABSOLUTELY NECESSARY TO ACCOMMODATE THE MODIFICATION. SEE DRAWINGS FOR WATER CLOSETS TO BE MODIFIED.
13. INFORMATION ON EXISTING PLUMBING WAS OBTAINED FROM PLANS DATED OCTOBER 1994. THE CONTRACTOR SHALL ADJUST WORK AS REQUIRED TO SUIT ACTUAL LOCATIONS IF DIFFERENT FROM CONTRACT DOCUMENTS.
14. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE INSTALLATION OF PIPES WITH ELECTRICAL PANELS WHEN SHOWN NEAR PANELS OR OVER ELECTRICAL ROOMS.

NO SCALE



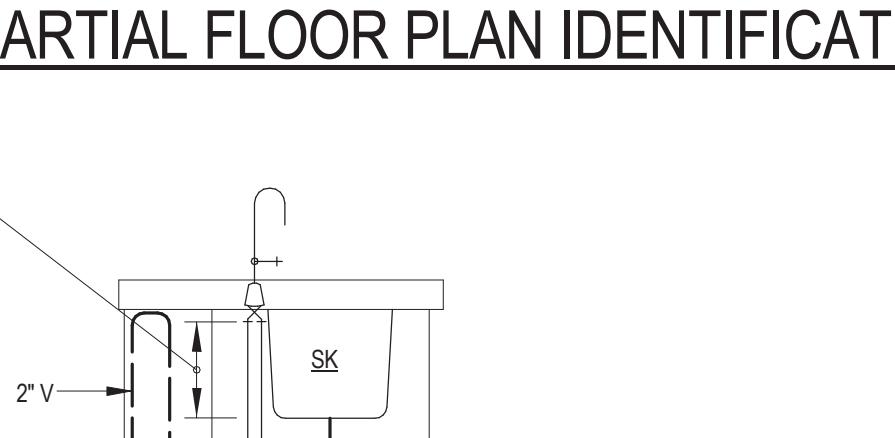
## PARTIAL FLOOR PLAN

NO SCALE



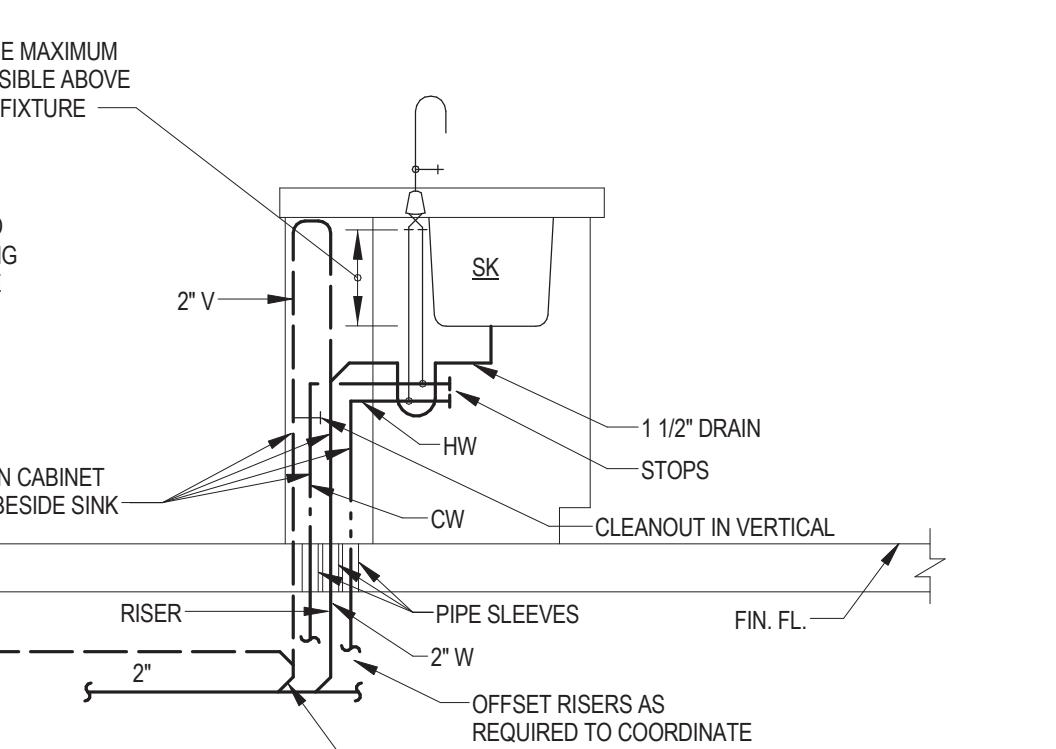
## PLAN SYMBOL

NO SCALE



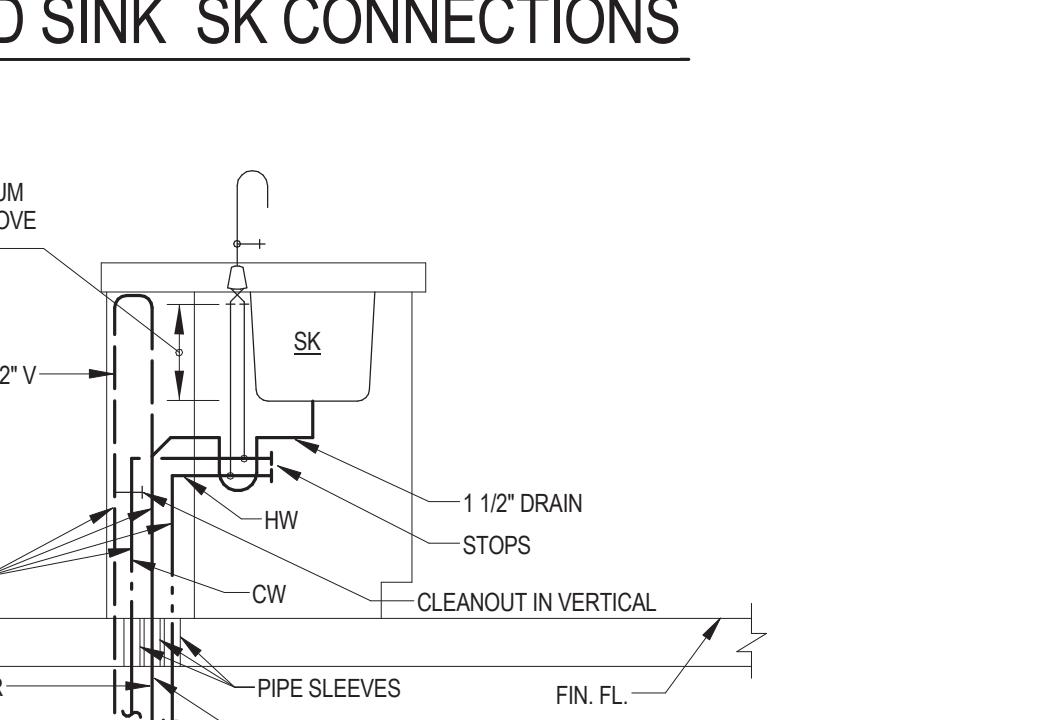
## PARTIAL FLOOR PLAN IDENTIFICATION

NO SCALE

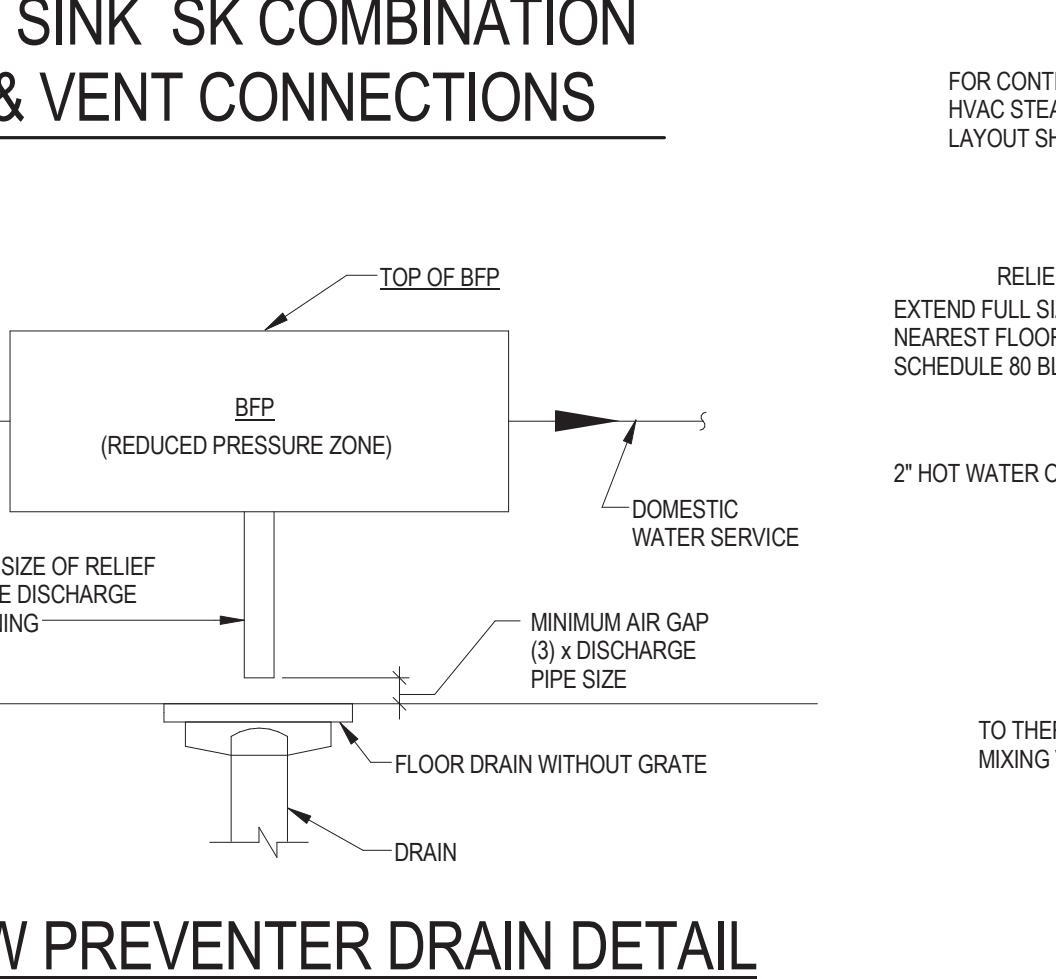


## ISLAND SINK SK CONNECTIONS

NO SCALE

ISLAND SINK SK COMBINATION  
DRAIN & VENT CONNECTIONS

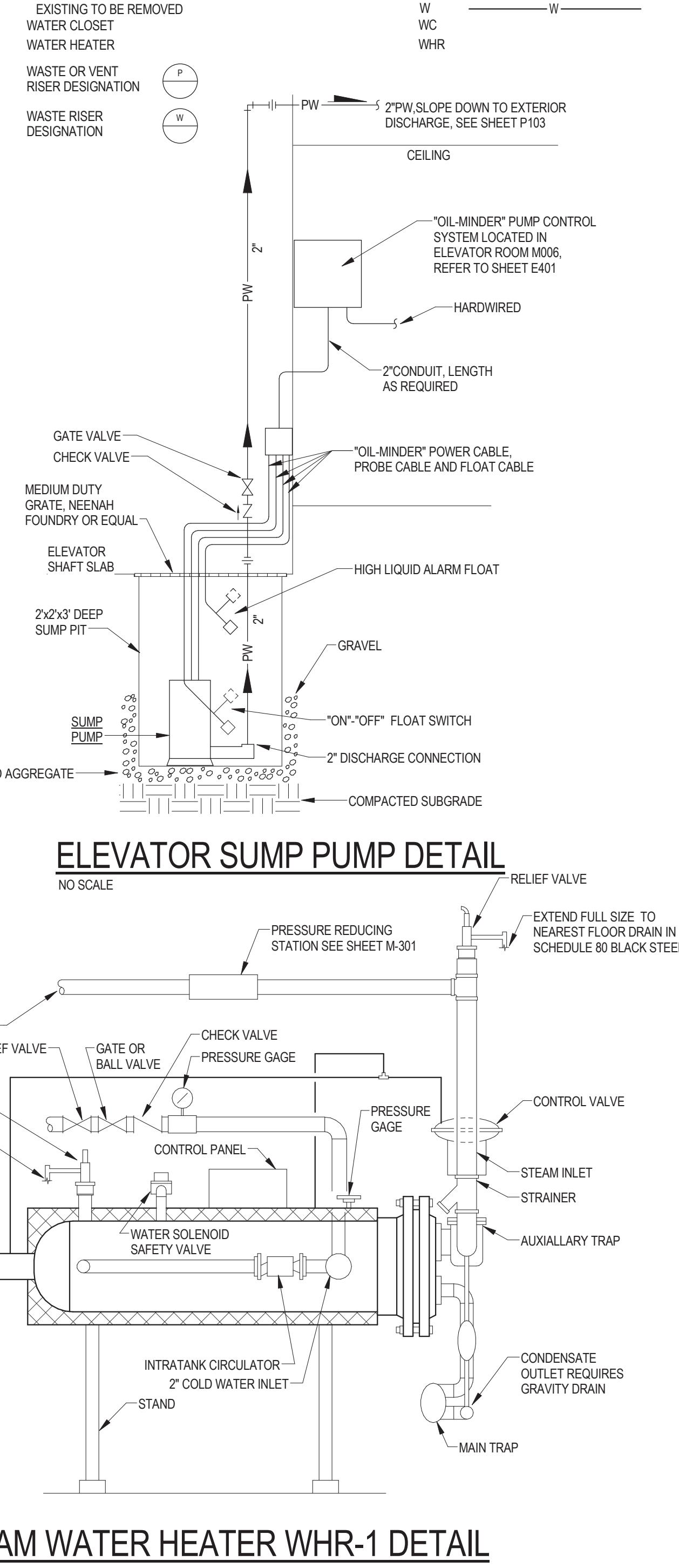
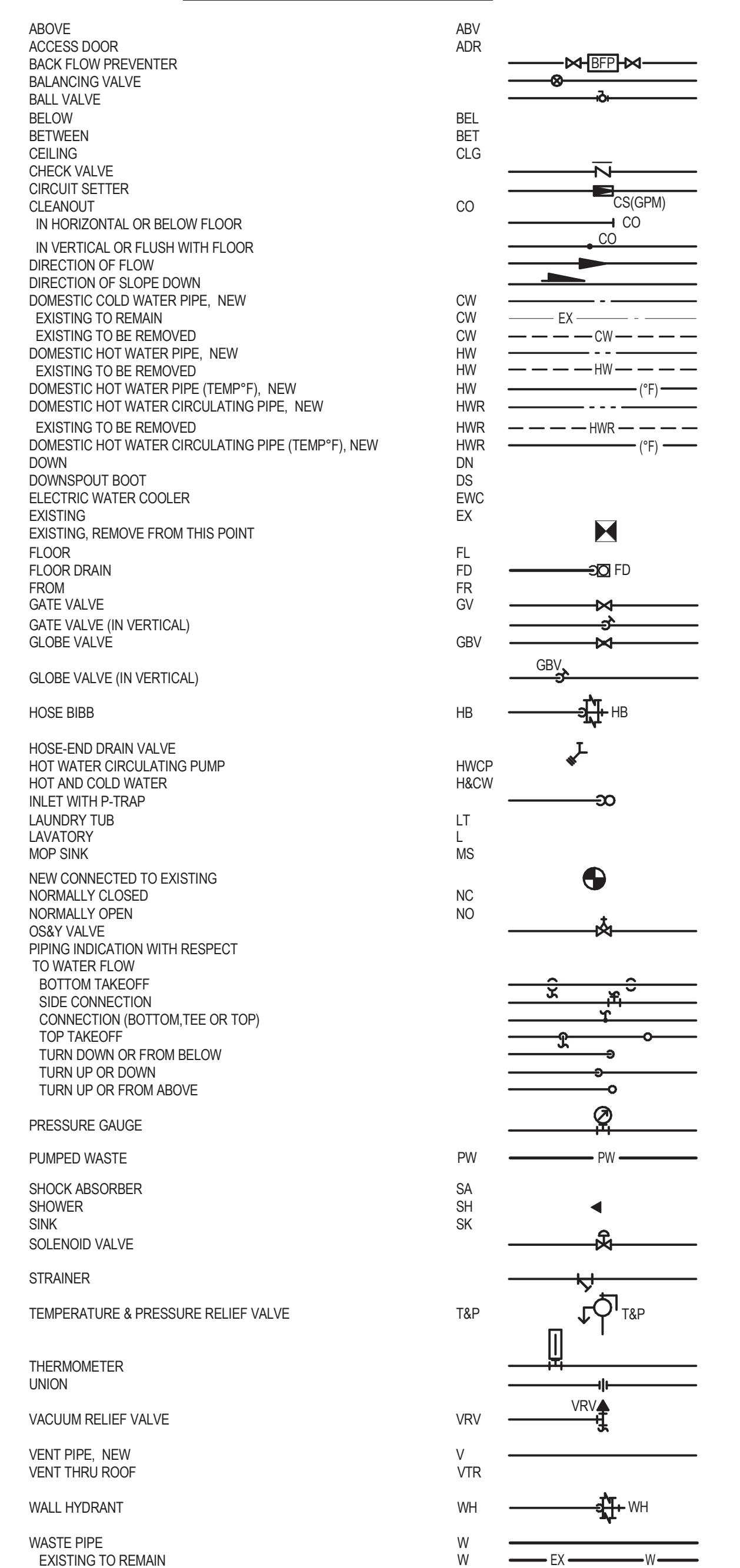
NO SCALE



## BACKFLOW PREVENTER DRAIN DETAIL

NO SCALE

## PLUMBING LEGEND



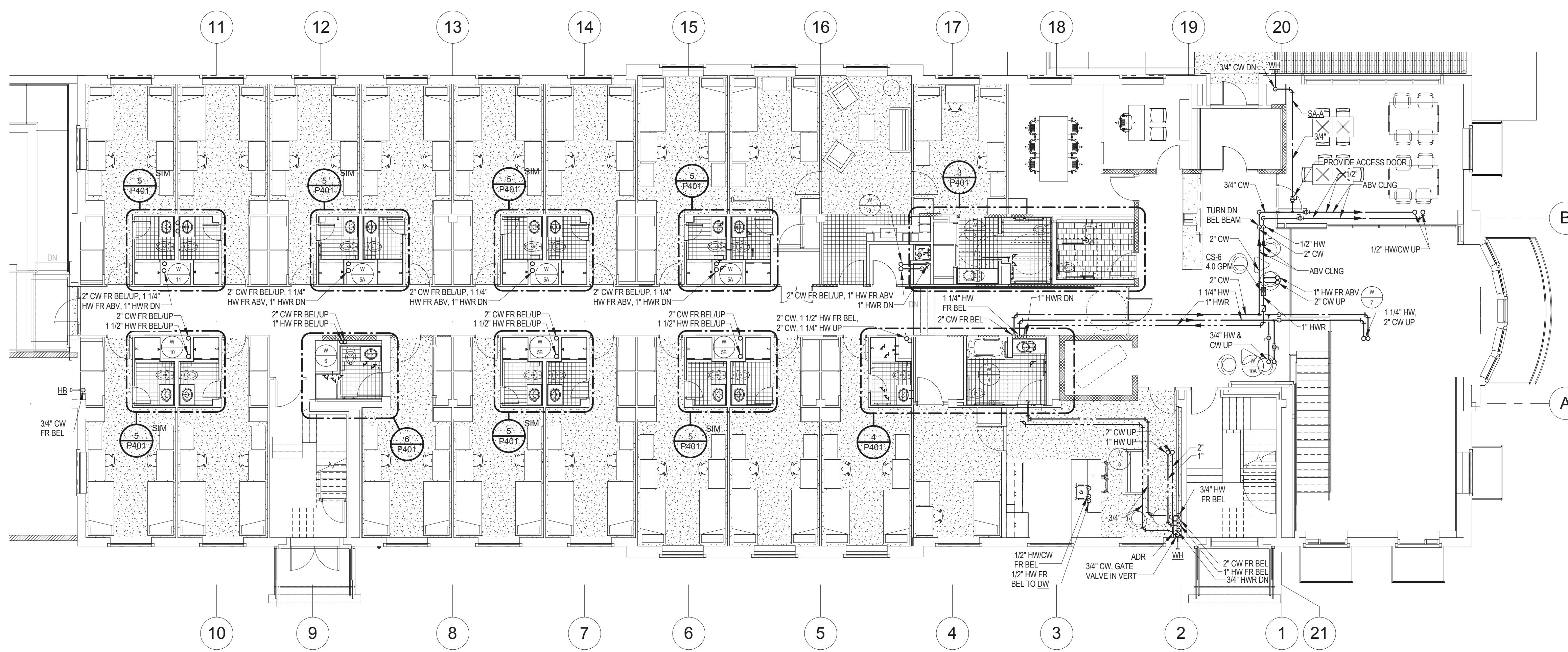
## STEAM WATER HEATER WHR-1 DETAIL

NO SCALE

## RENOVATION OF THREE RESIDENCE HALLS DRAPER HALL

RADFORD UNIVERSITY  
RADFORD, VIRGINIA

Project Code 217-17565-002  
VMDO Project Number 1115

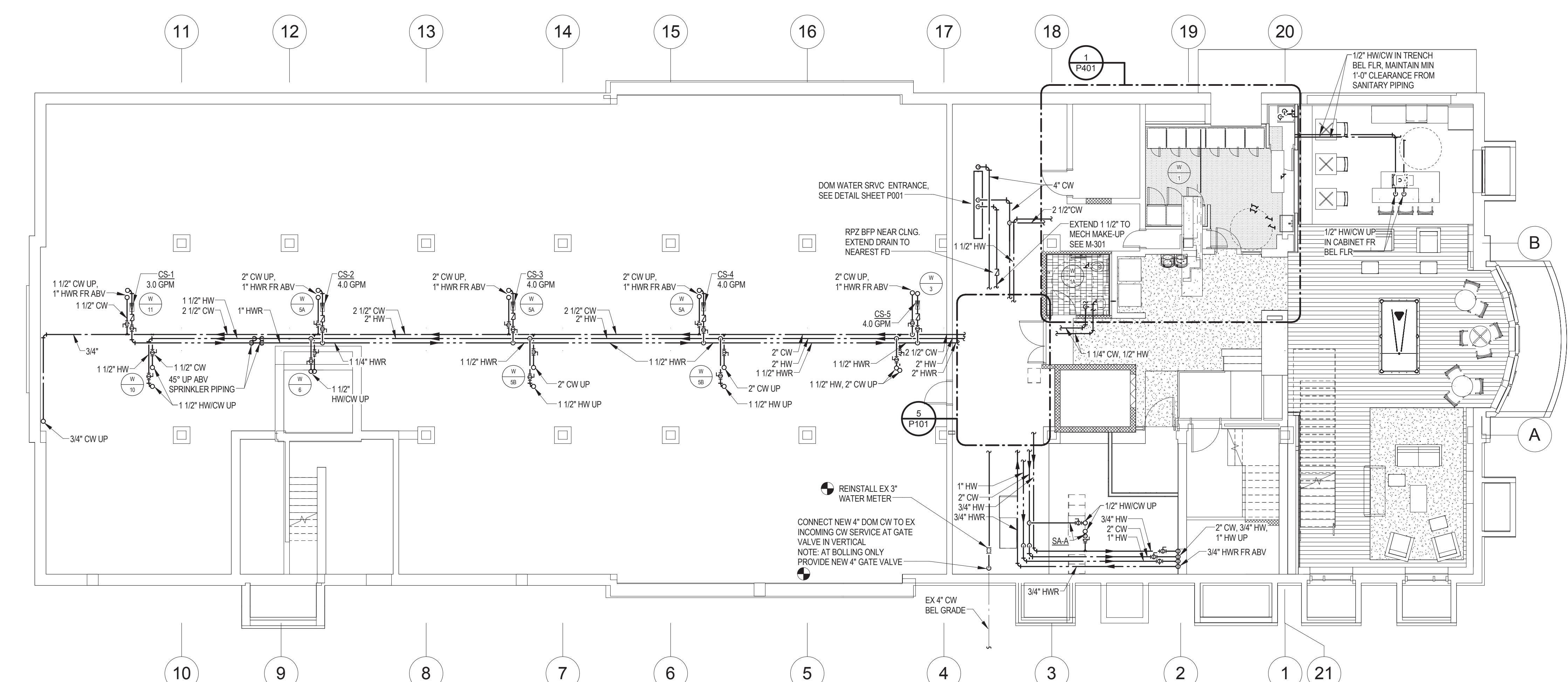


FIRST FLOOR PLAN - DOMESTIC WATER

SCALE: 1/8" = 1'-0"

Checked By MGW  
Drawn by NMF

Note: Modifications to the bid documents that were issued by addenda have been incorporated into these drawings for the convenience of the Contractor. In the event of discrepancies between the originally issued addenda and changes depicted on these drawings, the originally issued addenda shall take precedence.



BASEMENT FLOOR PLAN - DOMESTIC WATER

SCALE: 1/8" = 1'-0"

ISSUES AND REVISIONS		DATE
NO.	SUBMITTAL	
1	BID DOCUMENTS Addendum 1	05.19.14
2	Addendum 2	06.19.14
3	Addendum 3	06.24.14
	CONSTRUCTION SET	06.25.14
		05.01.15

PARTIAL FLOOR PLAN - DOMESTIC WATER

REFER TO SHEET P101P  
FOR TUB & SHOWER DETAILS

GRAPHIC SCALE  
0 4' 8' 12'  
1/8"=1'-0"

P101

## PLUMBING NOTE:

THE CONTRACTORS PERFORMING THE PLUMBING PORTION OF THE WORK ARE HEREWITHE ADVISED THAT THE FIRST FLOOR LEARNING CENTER, 102' X 100' ARE SUBJECT TO A LIMITING TIME FRAME TO MOVE ALL EQUIPMENT INTO THE BUILDING AND DOWN TO THE BASEMENT LEVEL. THE PLUMBERING EQUIPMENT THAT MAY BE TOO LARGE TO MOVE BY HAND OR CRANE ARE NOT BUT NOT LIMITED TO, SEWAGE BASIN AND SEWAGE PUMP, INSTANTANEOUS WATER HEATER (WHR), AND RACK, EXPANSION TANKS, PIPING AND ANY OTHER ITEMS OF EXCESSIVE SIZE OR WEIGHT. CONTRACTOR SHALL ALSO VERIFY EQUIPMENT BY ELECTRICAL AND HVAC. THE CONTRACTOR SHALL INCLUDE A CONTINGENCY FACTOR FOR ALL ITEMS TO BE MOVED AND LOCATED PROPERLY. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES FOR DELIVERY, MOVING AND STORING ALL EQUIPMENT AND SUPPLIES.

## WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	GPM / GPH	STEAM INLET PRESSURE	DIMENSIONS
WHR-1	LESLIE	H10LES1030DW	61 GPM	12 PSIG	29" WIDE x 56" LONG x 42" HIGH
WHR-2	RHEEM	83VR40-2	21 GPH	-	22" Dia x 47" HIGH

## HOT WATER CIRCULATING PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	GPM	HEAD, FT	HP	VOLTS	PH
HWCP-1	BELL & GOSSETT	SERIES PR	23	8.5	1/6	115	1
HWCP-2	BELL & GOSSETT	SERIES PR	4	8.0	1/12	115	1
HWCP-3	BELL & GOSSETT	SERIES PR	4	8.5	1/12	115	1

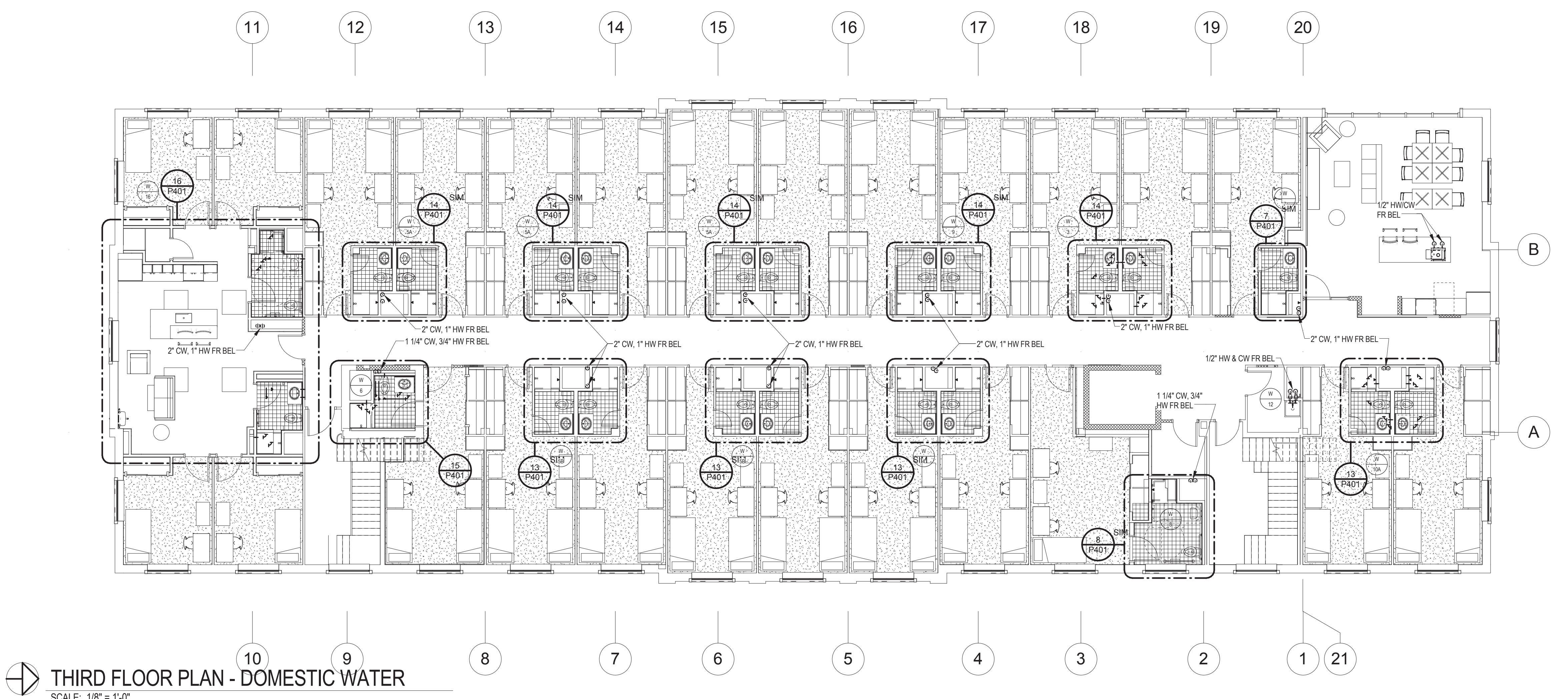
BASEMENT AND FIRST FLOOR PLANS - DOMESTIC WATER

The logo consists of the letters "RU" in a large serif font, positioned above the words "RADFORD UNIVERSITY" in a smaller serif font.

# RENOVATION OF THREE RESIDENCE HALLS DRAPER HALL

RADFORD UNIVERSITY  
RADFORD, VIRGINIA

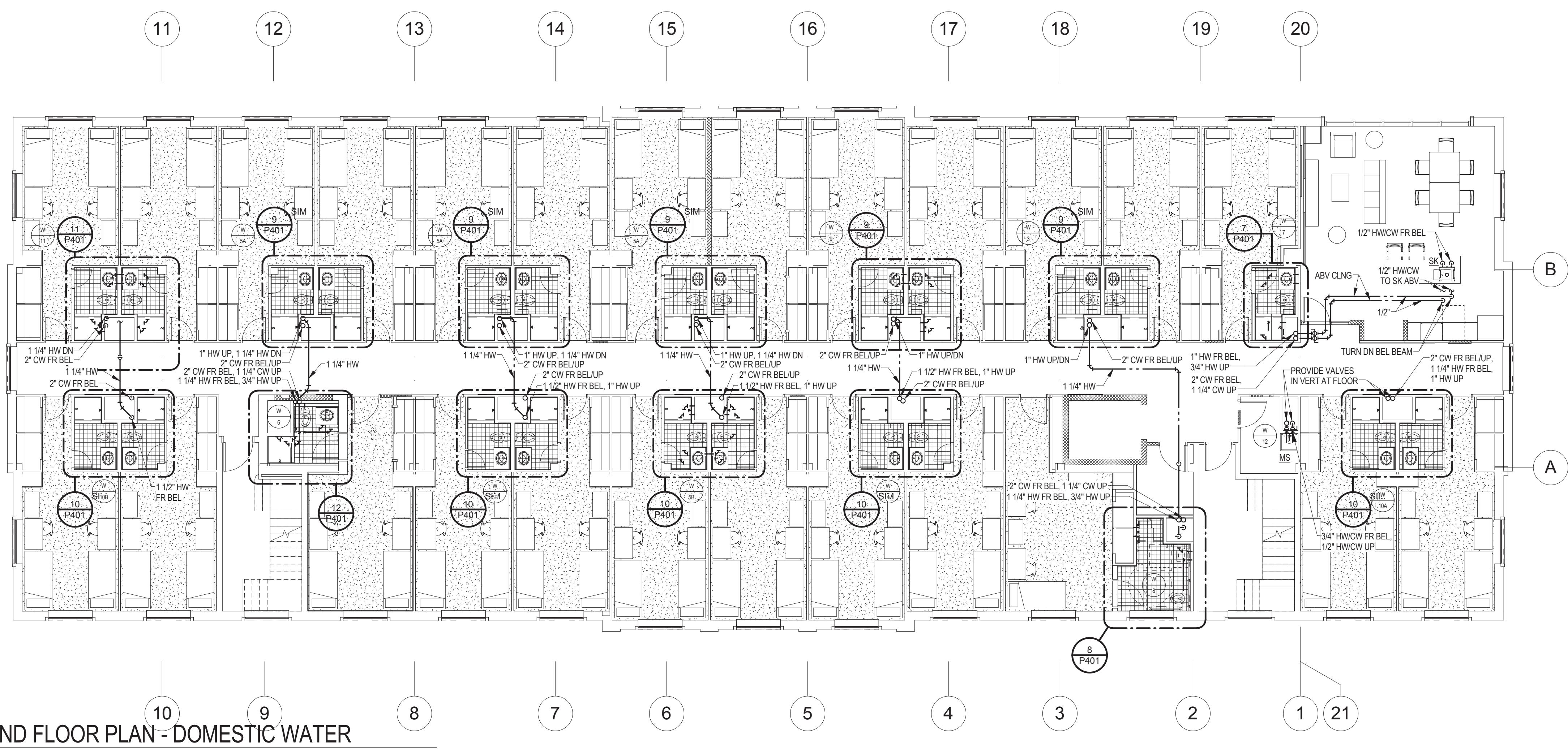
217-17565-002  
1115



Checked By

MGW  
NME

Note: Modifications to the bid documents that were issued by addendum have been incorporated into these drawings for the convenience of the Contractor. In the event of discrepancies between the originally issued addenda and changes depicted on these drawings, the originally issued addenda shall take precedence.



ISSUES AND REVISIONS	
NO.	SUBMITTAL
	BID DOCUMENTS
1	Addendum 1
2	Addendum 2
3	Addendum 3
	CONSTRUCTION SET
	05.
	06.
	06.
	06.

# SECOND AND THIRD FLOOR PLANS- DOMESTIC WATER



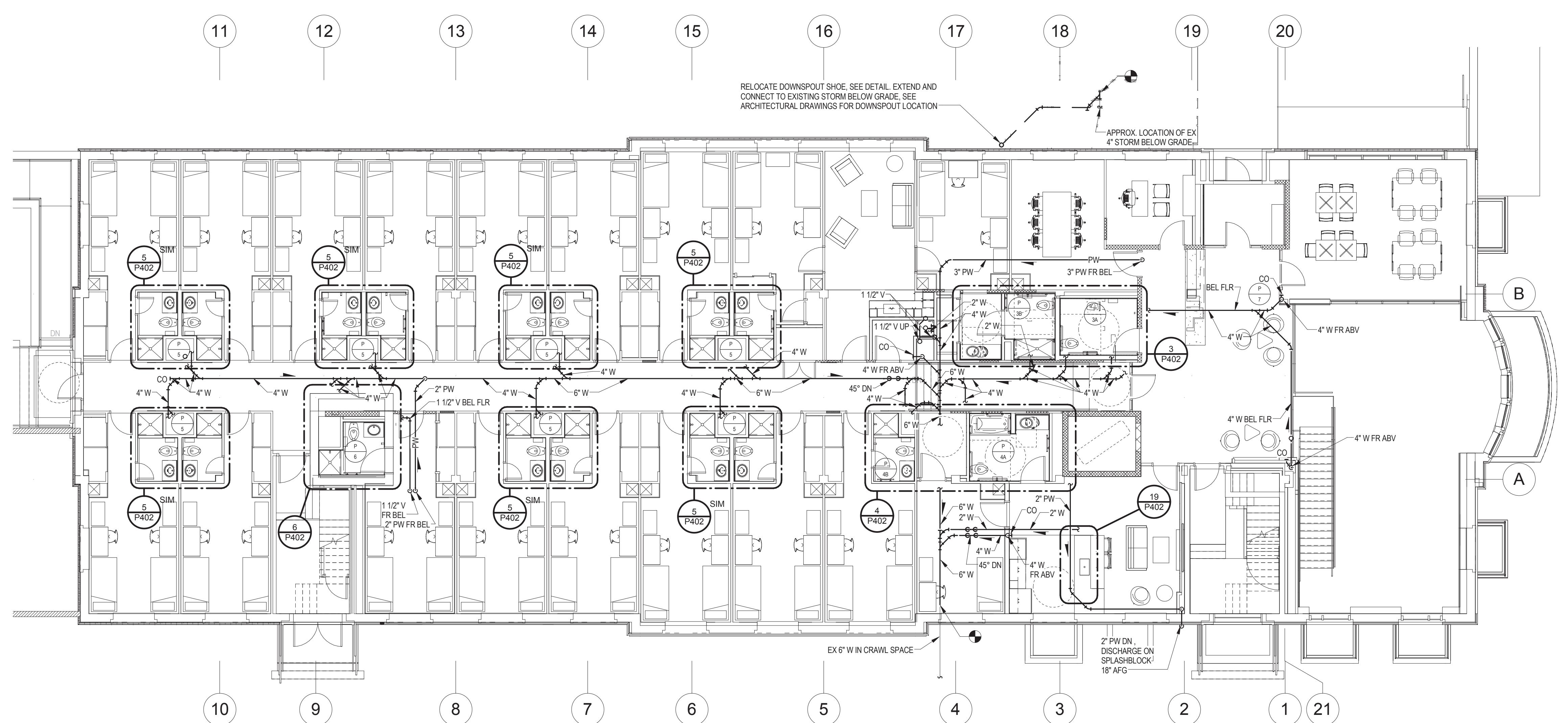
LAWRENCE PERRY & ASSOCIATES  
Consulting Engineers  
15 E Salem Avenue SE, Suite 101  
Roanoke, Virginia 24011  
Ph: (540) 342-1816  
Fax: (540) 344-3410  
Comm. No.: 13111  
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RENOVATION OF THREE  
RESIDENCE HALLS  
DRAPER HALL

RADFORD UNIVERSITY  
RADFORD, VIRGINIA

Project Code 217-17565-002  
VMDO Project Number 1115

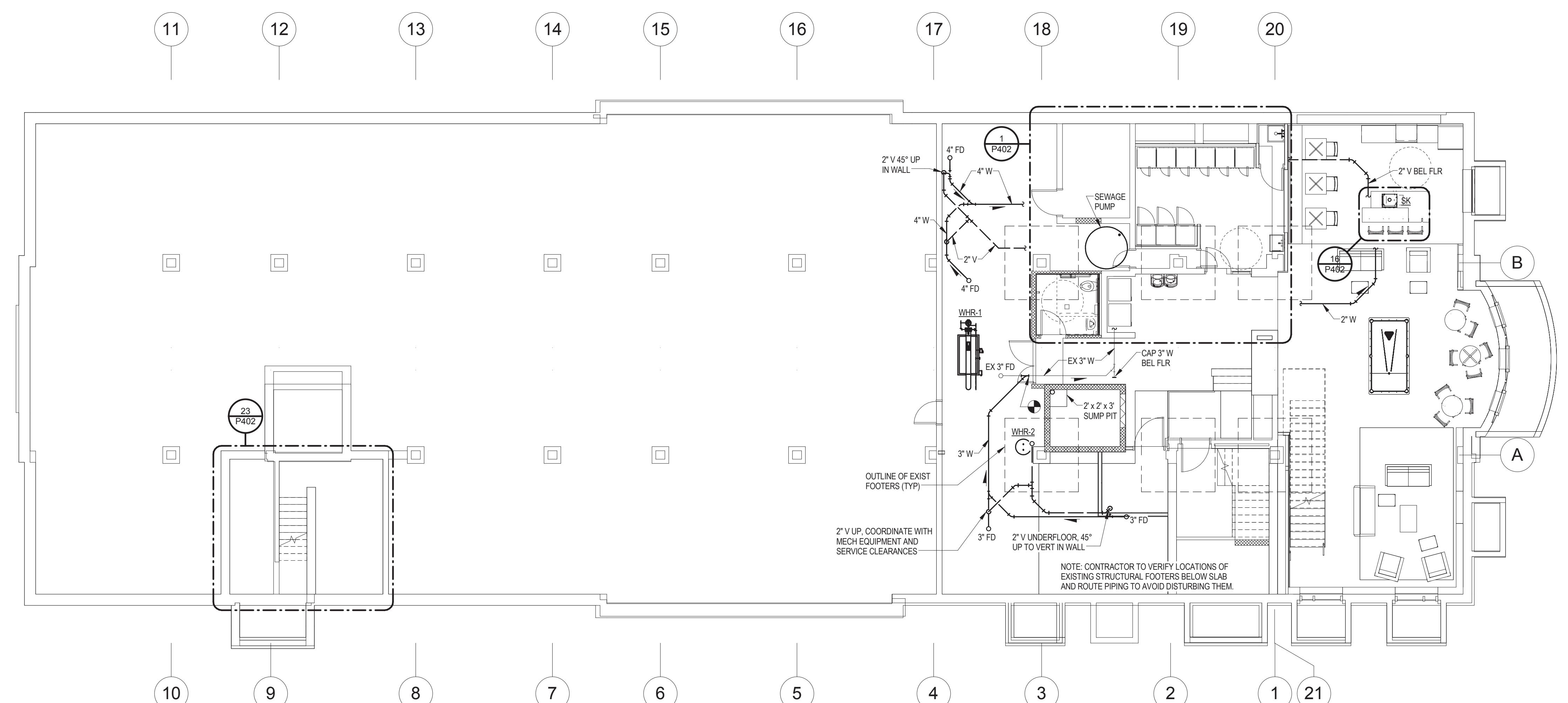


FIRST FLOOR PLAN - SANITARY

SCALE: 1/8" = 1'-0"

Checked By MGW  
Drawn by NMF

Note: Modifications to the bid documents that were issued by addenda have been incorporated into these drawings for the convenience of the Contractor. In the event of discrepancies between the originally issued addenda and changes depicted on these drawings, the originally issued addenda shall take precedence.



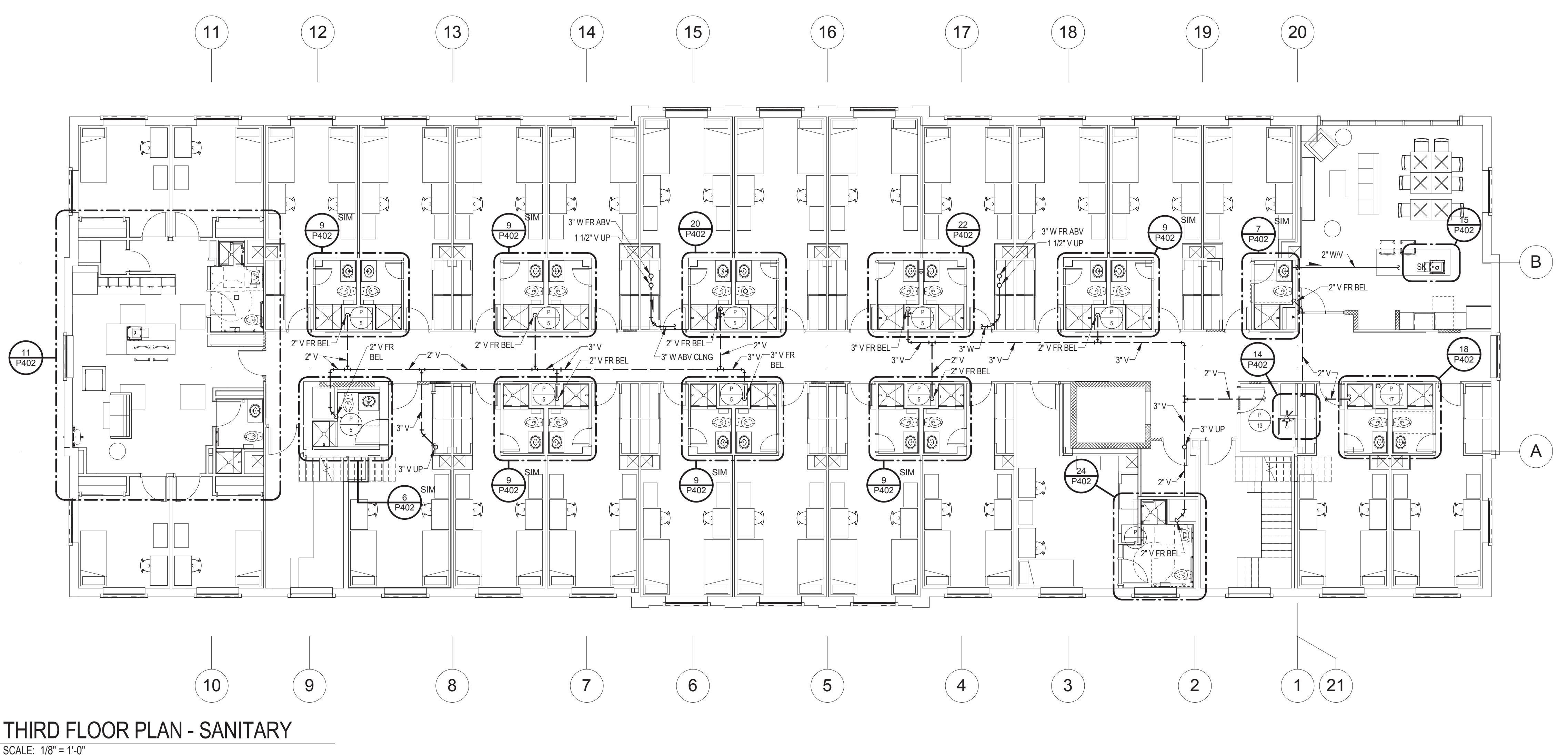
ISSUES AND REVISIONS		
NO.	SUBMITTAL	DATE
BID DOCUMENTS		05.19.14
1 Addendum 1		06.19.14
2 Addendum 2		06.24.14
3 Addendum 3		06.25.14
CONSTRUCTION SET		05.01.15

BASEMENT AND FIRST  
FLOOR PLANS -  
SANITARY

BASEMENT FLOOR PLAN - SANITARY

SCALE: 1/8" = 1'-0"

GRAPHIC SCALE  
0 4' 8' 12'  
18'=1'-0"

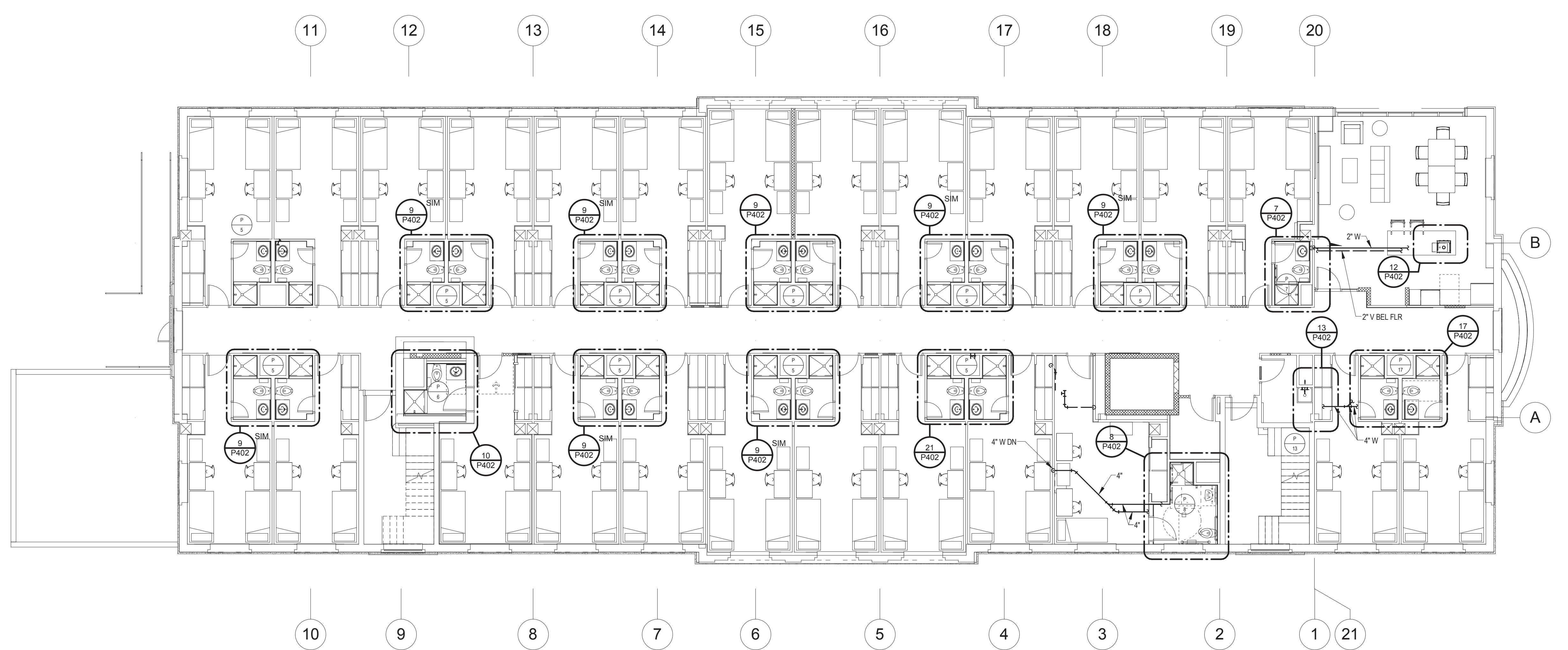
RADFORD UNIVERSITY  
RADFORD, VIRGINIAProject Code 217-17565-002  
VMDO Project Number 1115

THIRD FLOOR PLAN - SANITARY

SCALE: 1/8" = 1'-0"

Checked By MGW  
Drawn by NMF

Note: Modifications to the bid documents that were issued by addenda have been incorporated into these drawings for the convenience of the Contractor. In the event of discrepancies between the originally issued addenda and changes depicted on these drawings, the originally issued addenda shall take precedence.



SECOND AND THIRD FLOOR PLANS- SANITARY

SECOND FLOOR PLAN - SANITARY

SCALE: 1/8" = 1'-0"



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Comm. No.: 13111  
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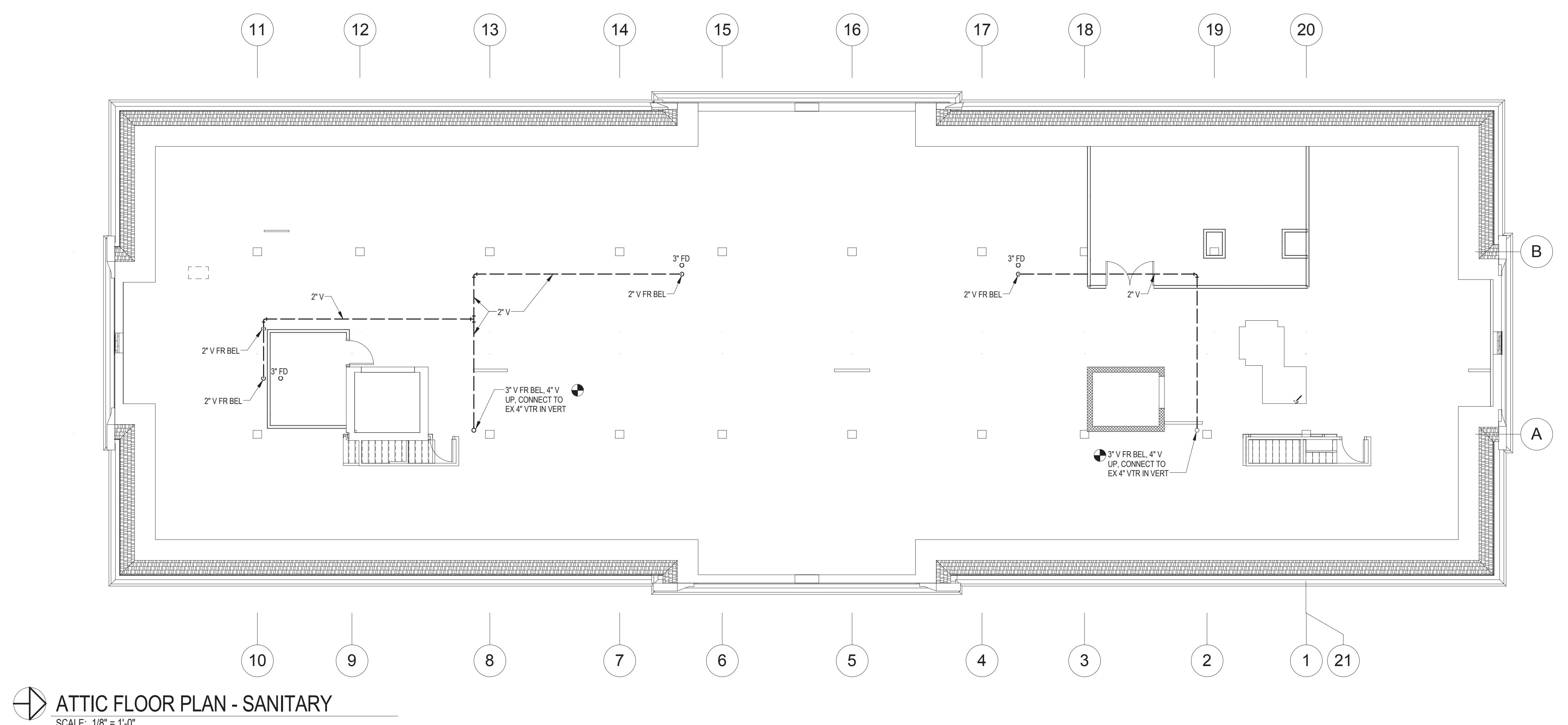
# RU

RADFORD  
UNIVERSITY

RENOVATION OF THREE  
RESIDENCE HALLS  
DRAPER HALL

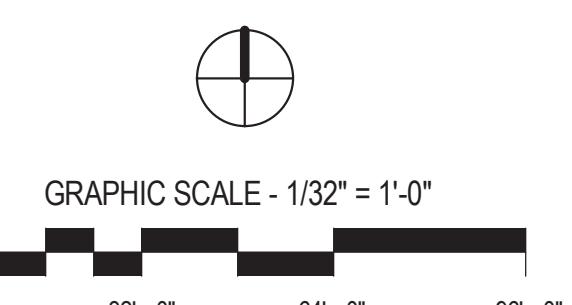
RADFORD UNIVERSITY  
RADFORD, VIRGINIA

Project Code 217-17565-002  
VMDO Project Number 1115



Checked By MGW  
Drawn By NMF

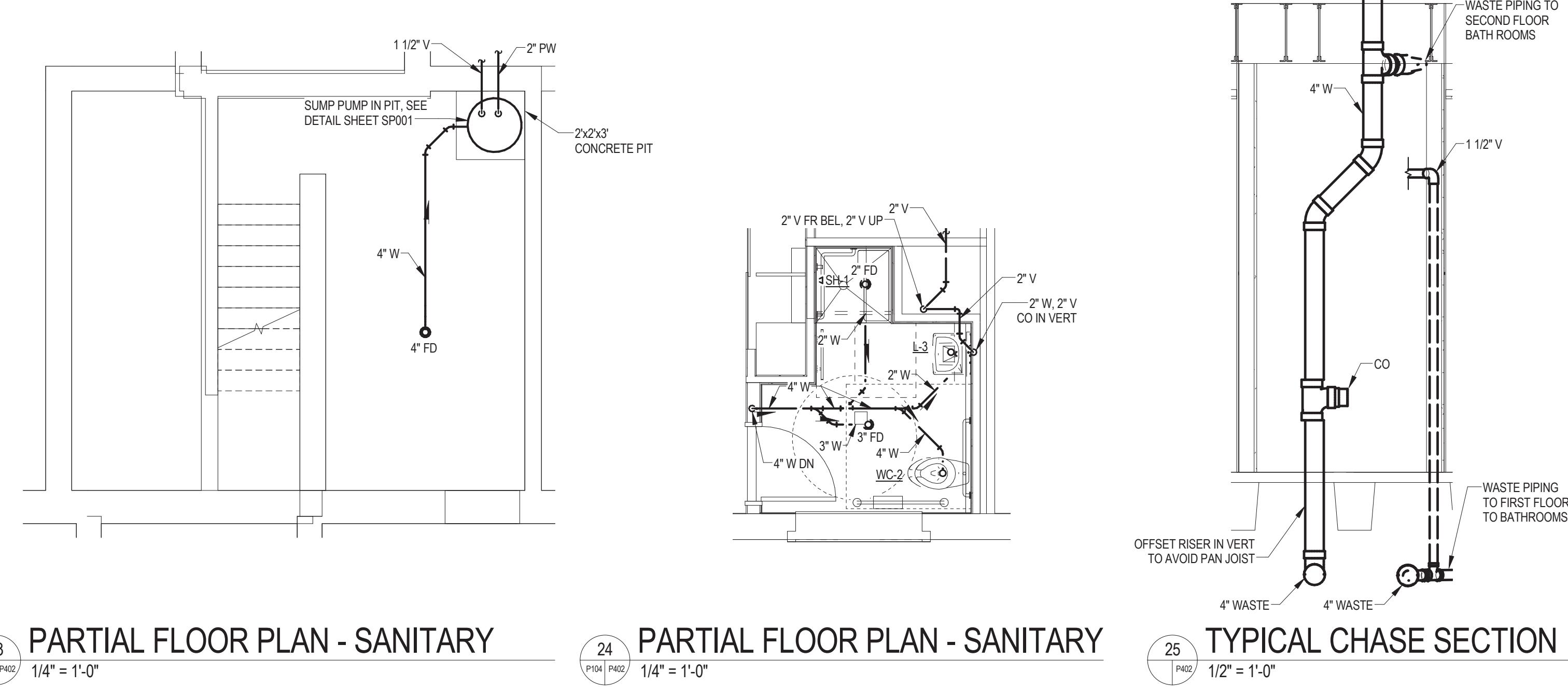
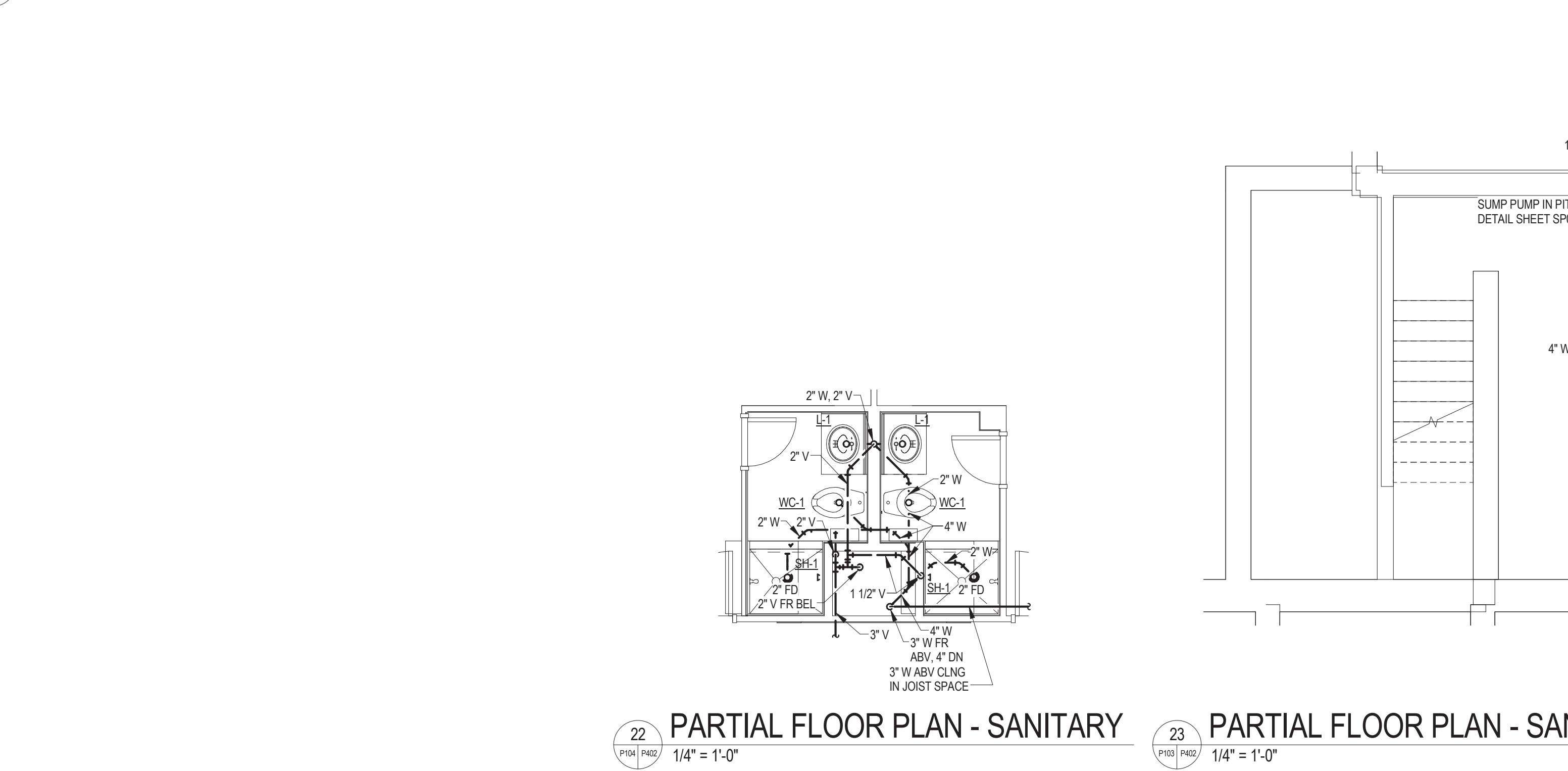
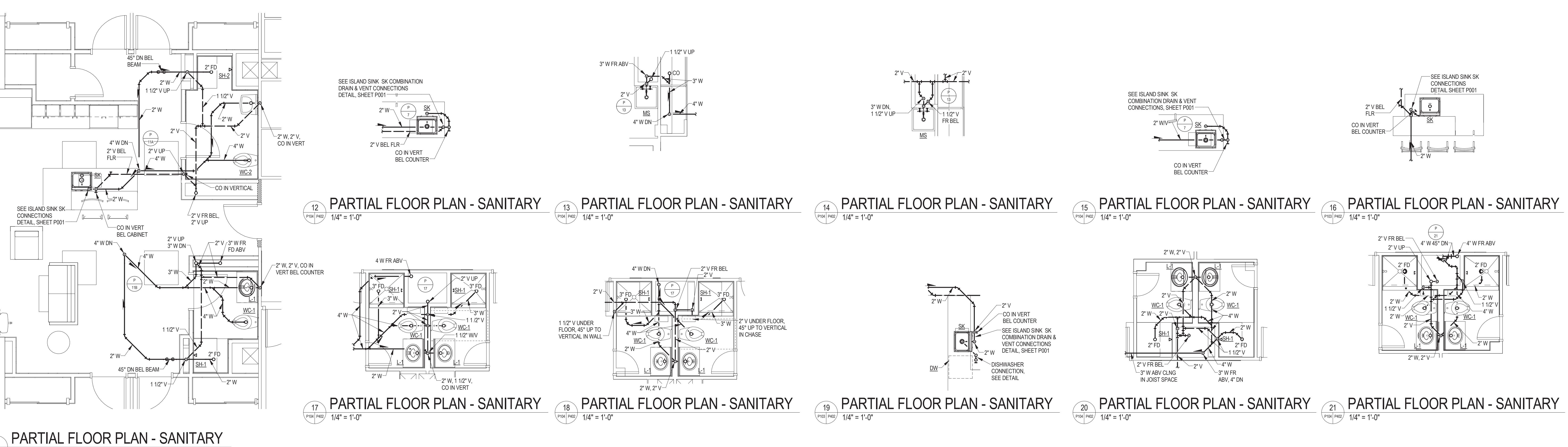
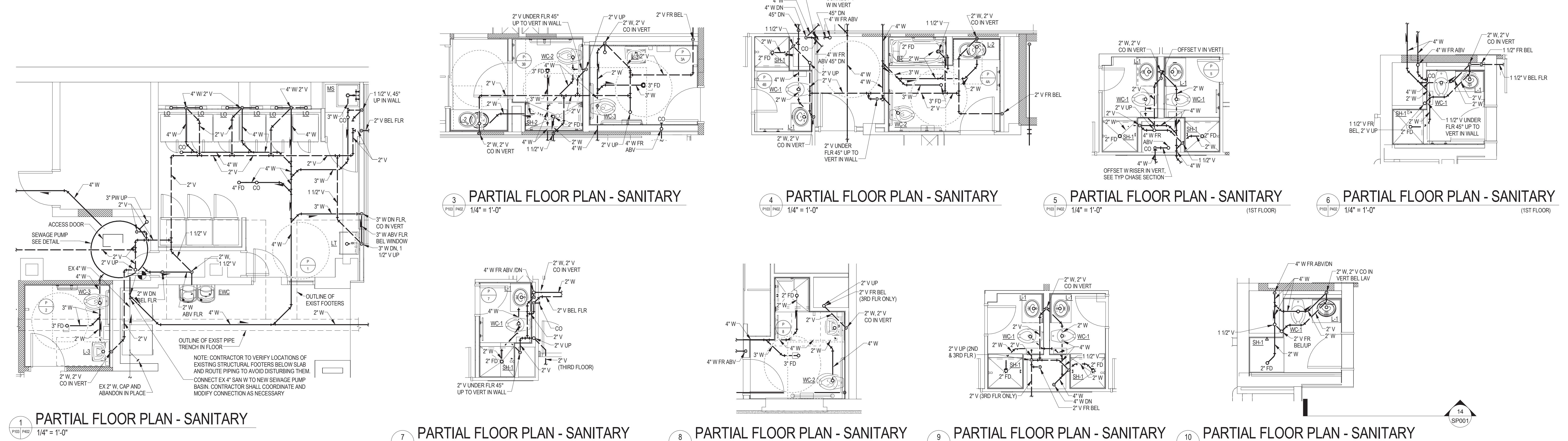
Note: Modifications to the bid documents that were issued by addenda have been incorporated into these drawings for the convenience of the Contractor. In the event of discrepancies between the originally issued addenda and changes depicted on these drawings, the originally issued addenda shall take precedence.



ISSUES AND REVISIONS		
NO.	SUBMITTAL	DATE
1	BID DOCUMENTS Addendum 1	05.19.14 06.19.14
2	Addendum 2	06.24.14
3	Addendum 3	06.25.14
	CONSTRUCTION SET	05.01.15

ATTIC FLOOR PLANS-  
PLUMBING







**RENOVATION OF THREE RESIDENCE HALLS  
DRAPER HALL**

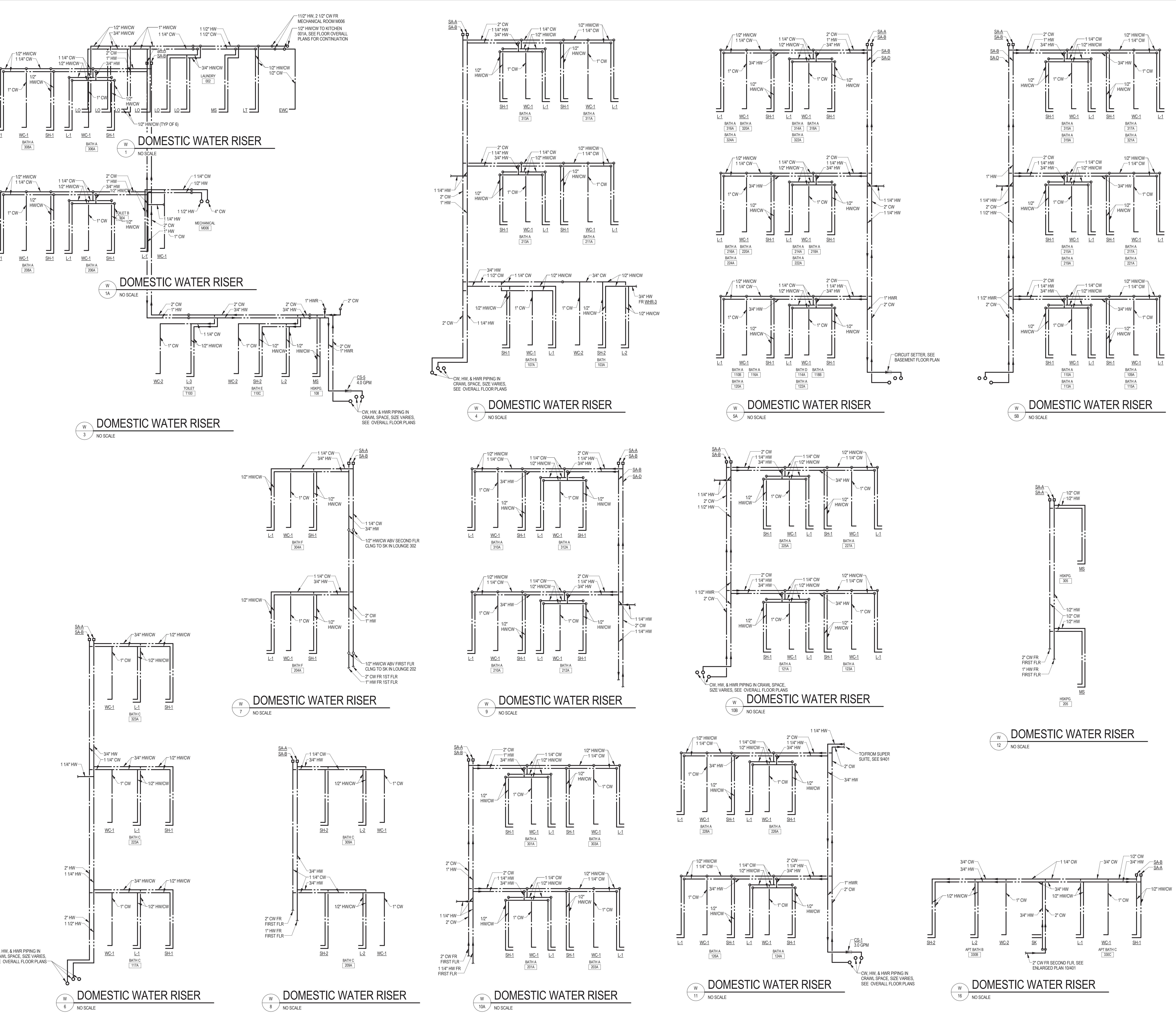
RADFORD UNIVERSITY  
RADFORD, VIRGINIAProject Code 217-17565-002  
VMDO Project Number 1115Checked By MGW  
Drawn By NMF

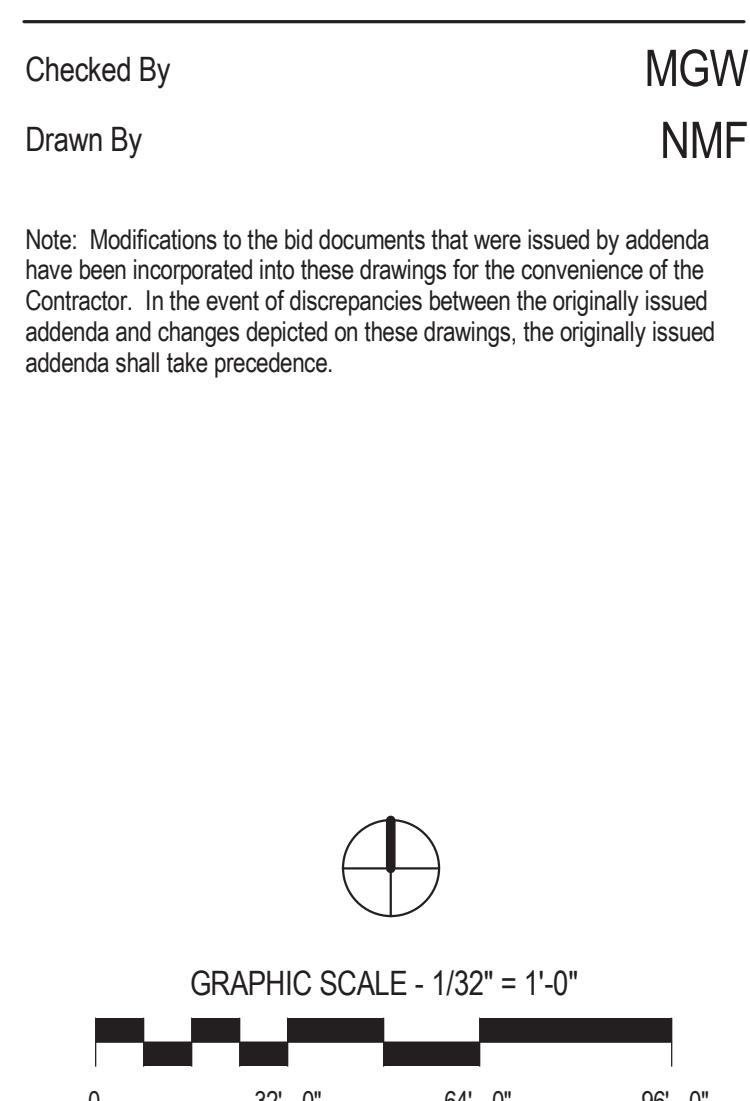
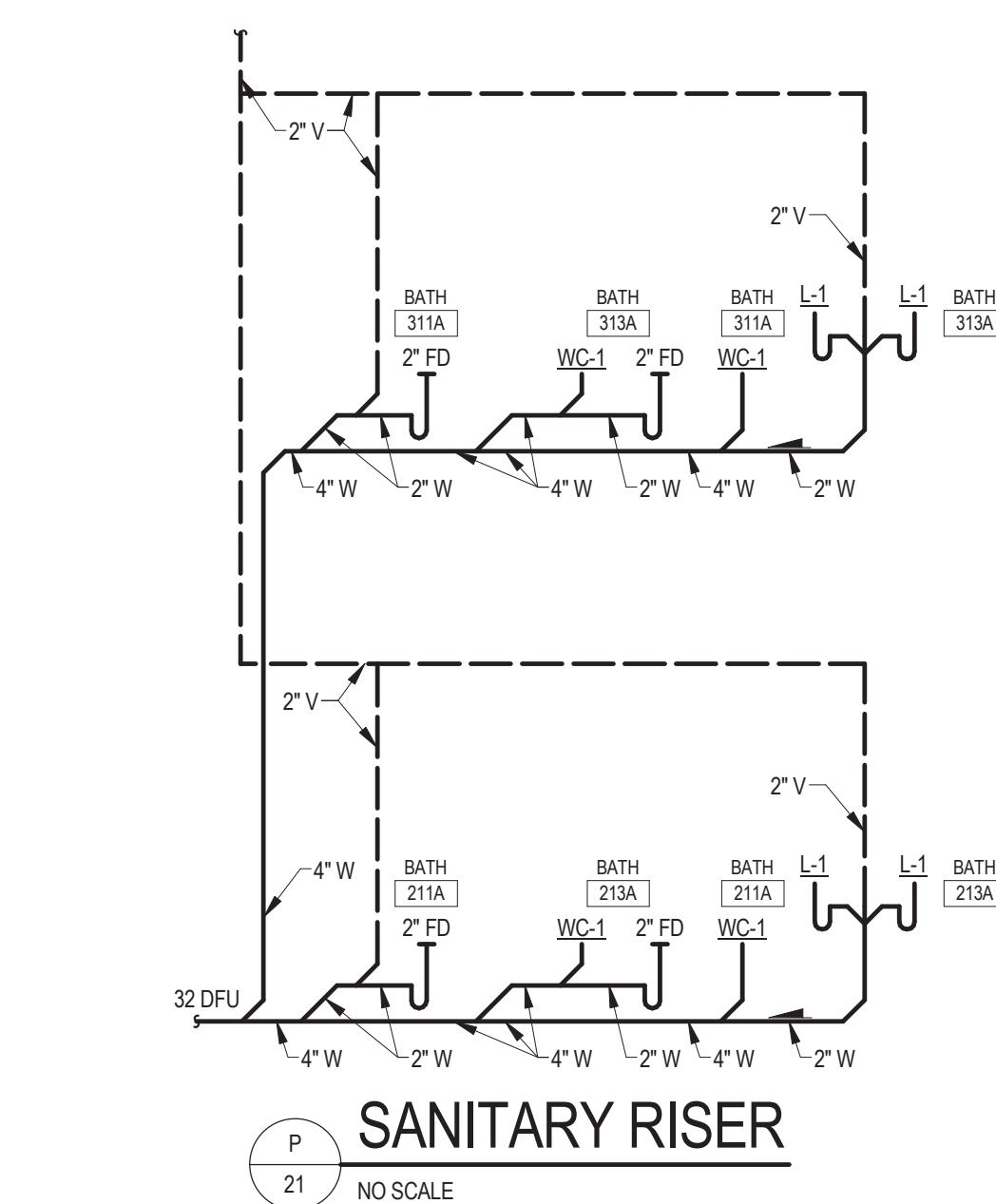
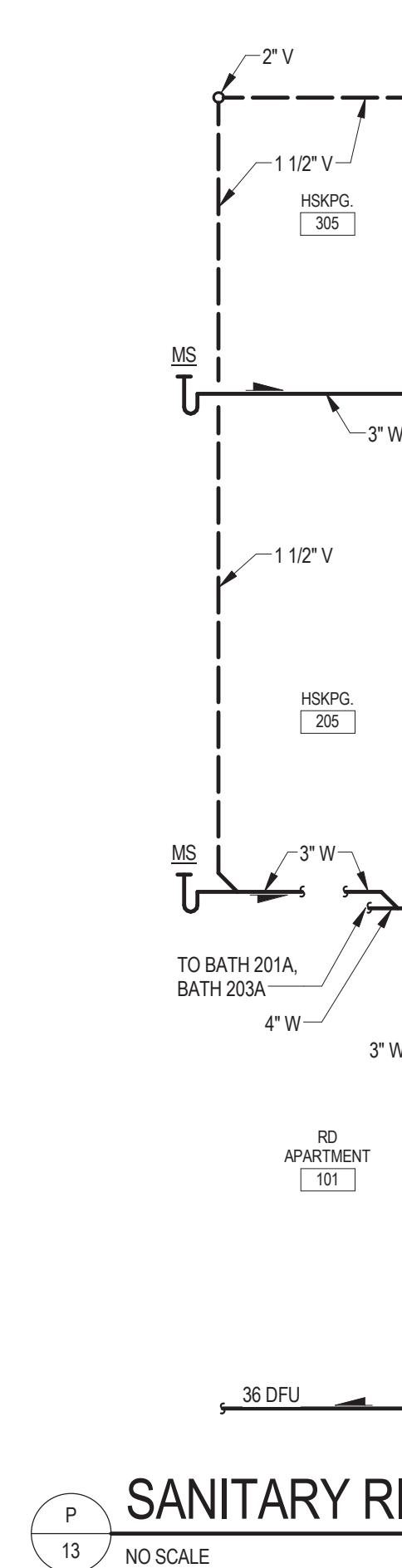
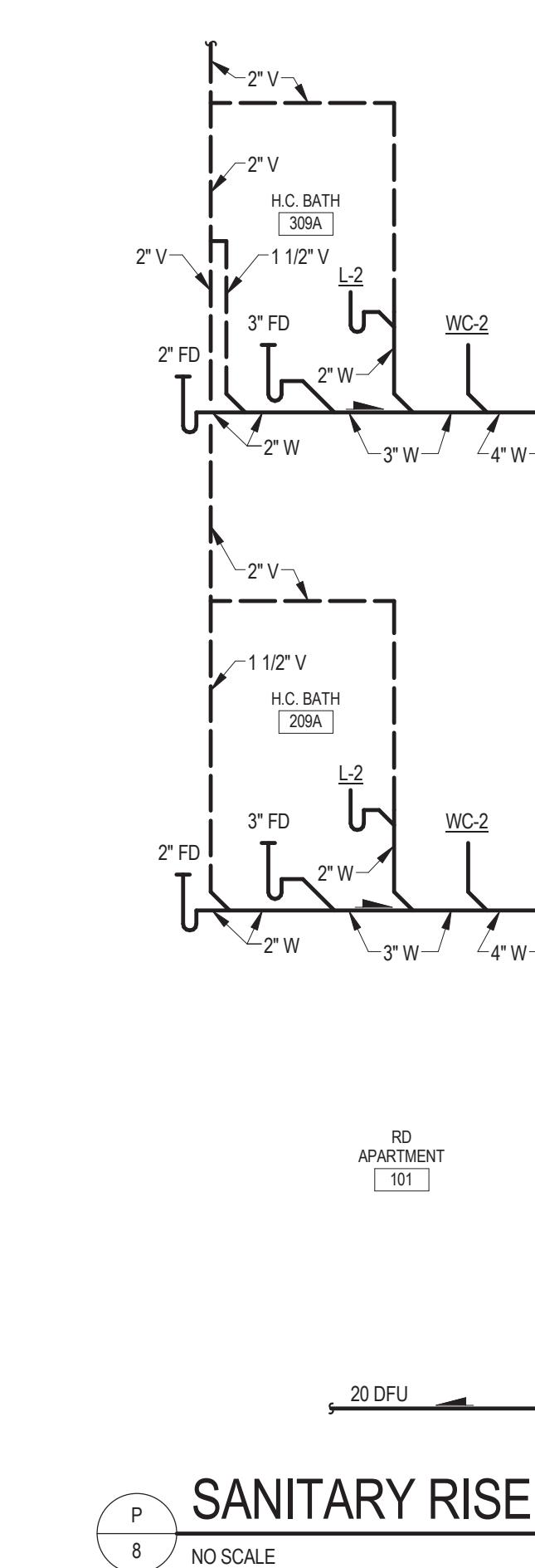
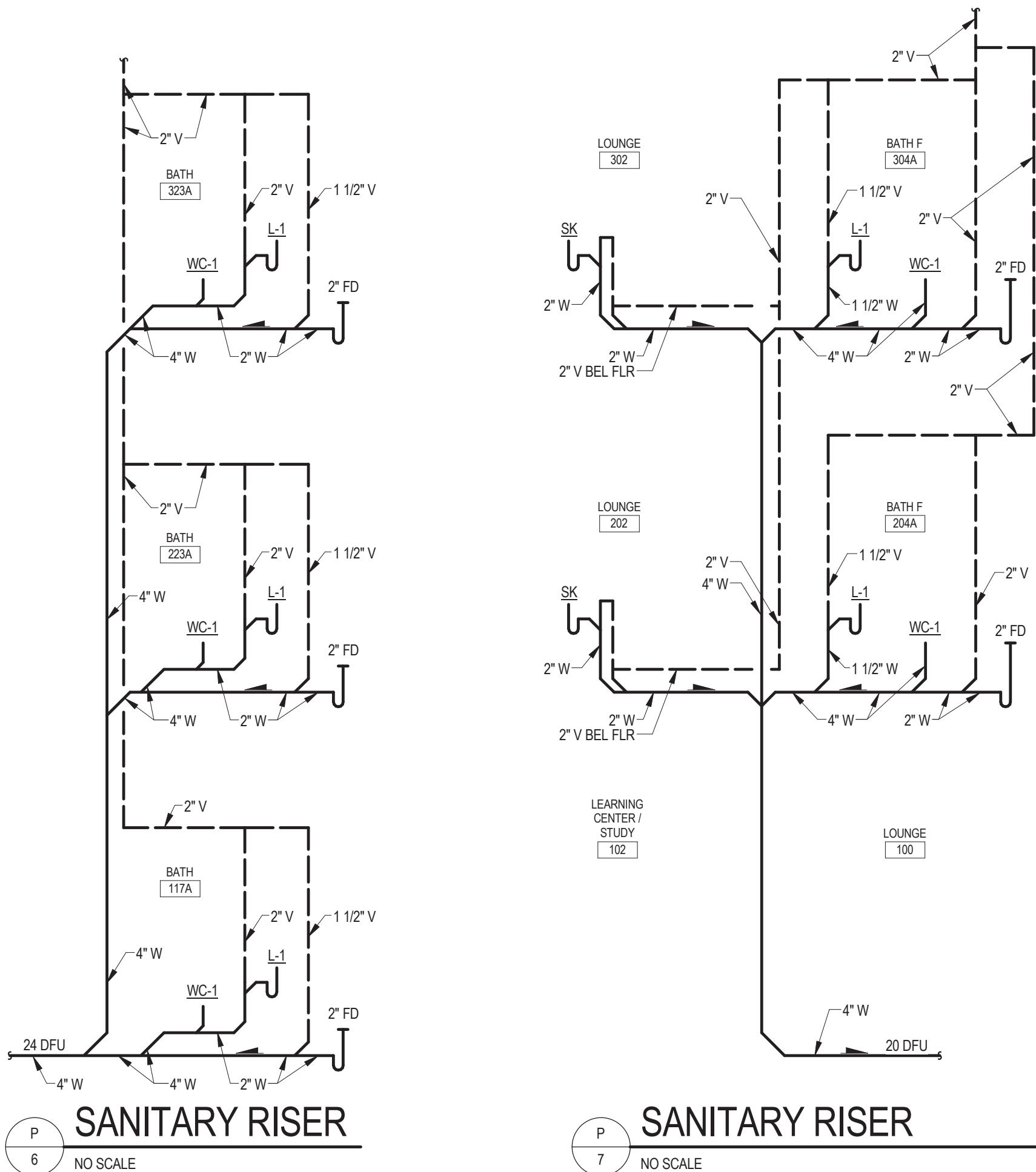
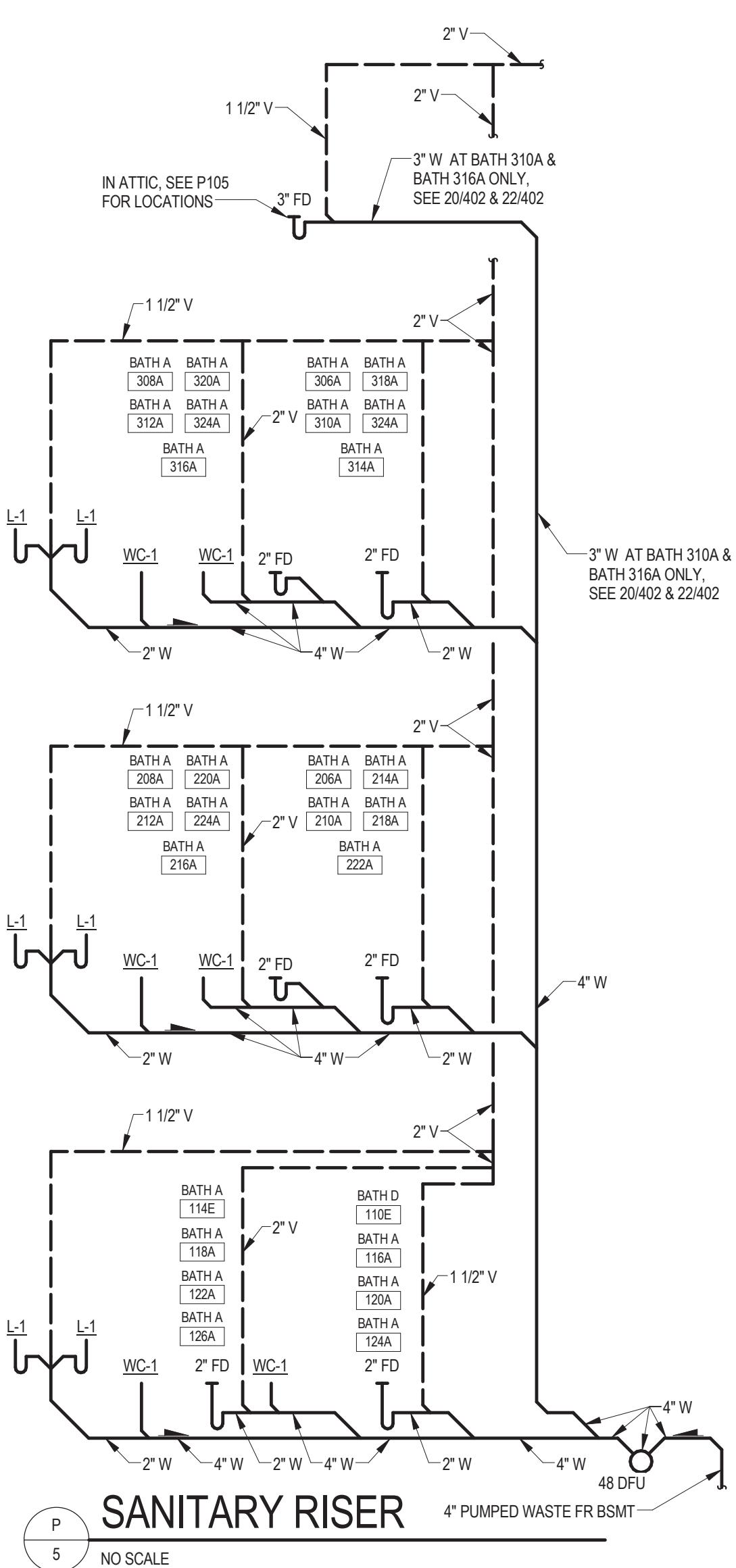
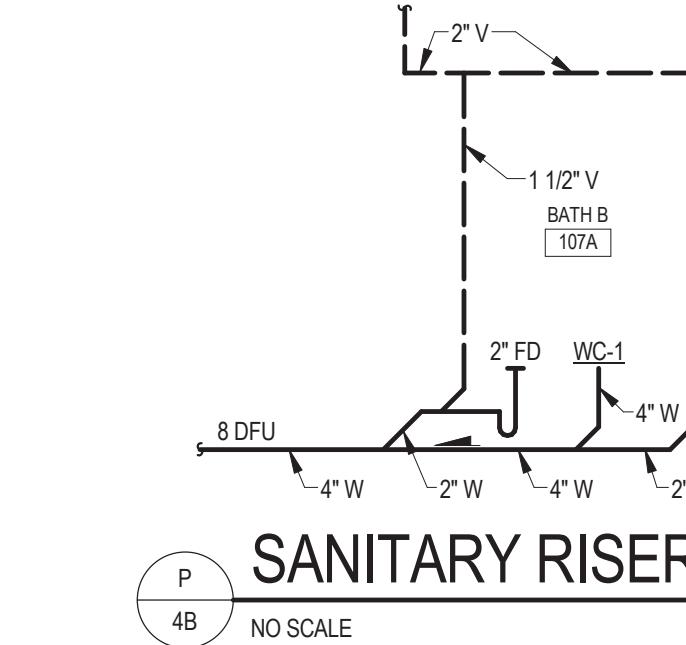
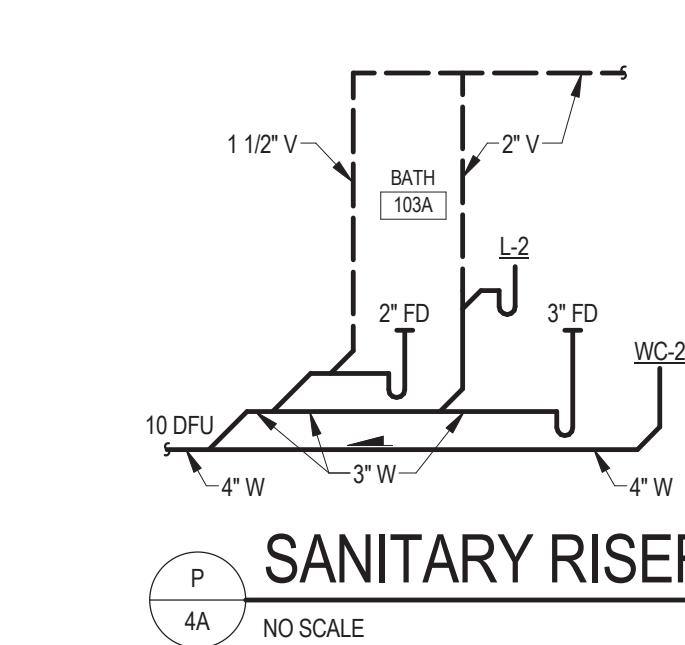
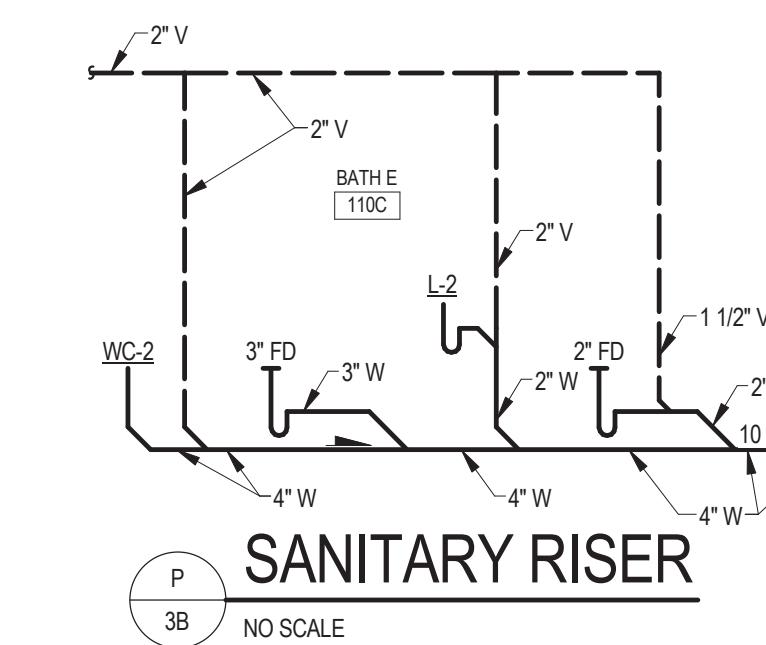
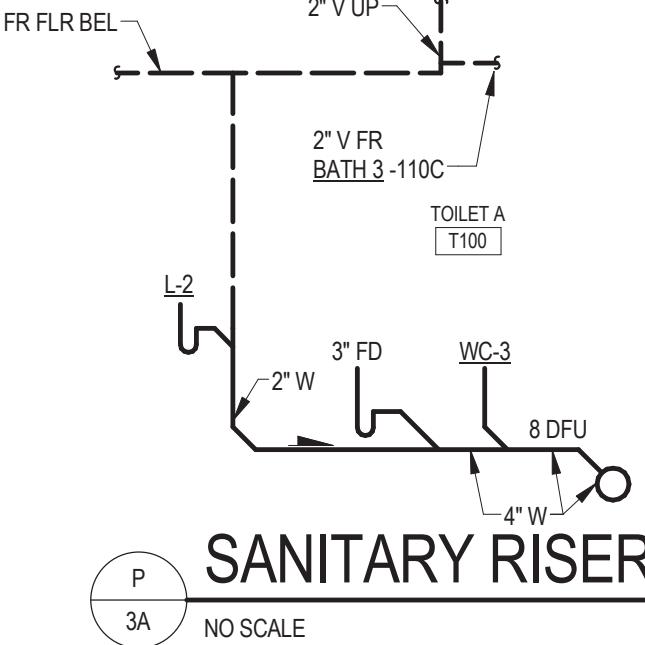
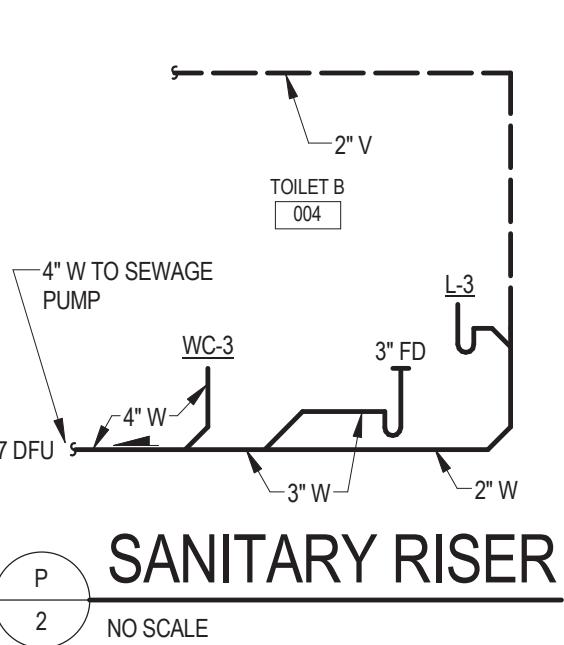
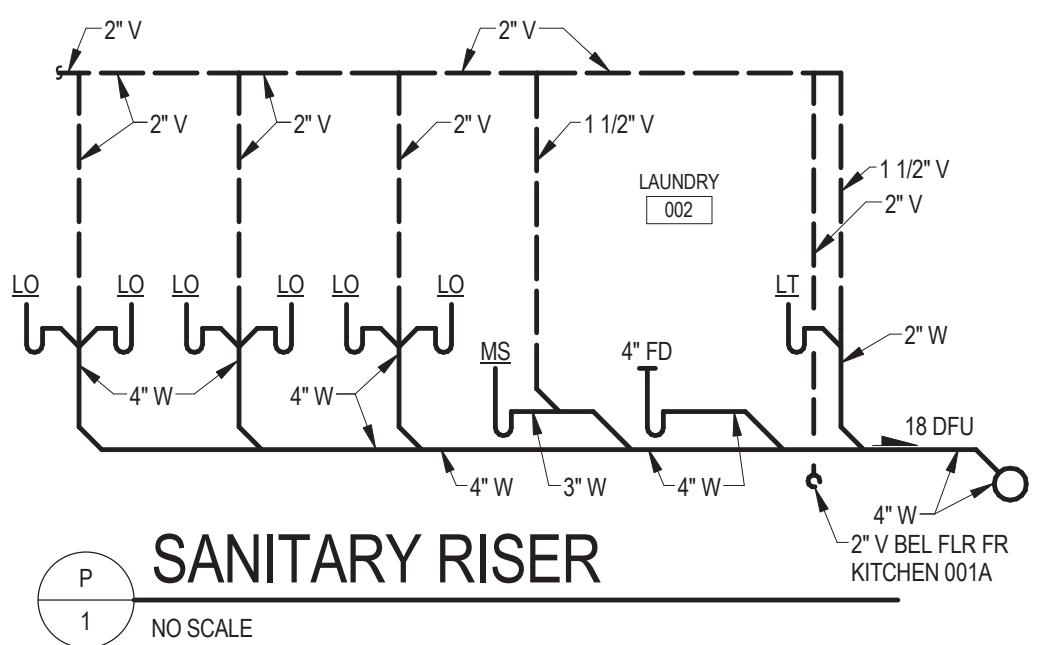
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GRAPHIC SCALE - 1/32" = 1'-0"  
0 32'-0" 64'-0" 96'-0"

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**DOMESTIC WATER RISER DIAGRAMS**





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	CONSTRUCTION SET	05.01.15

### SANITARY RISER DIAGRAMS