



Denver Public Schools  
 Purchasing Department  
 1617 S. Acoma St.  
 Denver, Colorado 80223

**INVITATION TO BID 14-MC-2187  
 ADDENDUM NUMBER FIVE  
 July 30, 2014**

**THIS ADDENDUM MUST BE ACKNOWLEDGED.**

**NOTE: Bid date and time has changed to August 6, 2014 @ 11:00AM**  
**New bid tab attached dated August 6, 2014**

<b>ADMINISTRATIVE</b>			
Item No.	Ref. Sheet	Description	Dwg. No.
<b>5-001</b>	Vendor Acknowledgement, Instructions to Bidders, Bid Form	The bid date has been changed to Wednesday, August 6 <sup>th</sup> at 11:00 a.m. Acoma Campus Conference Room 213	

<b>PLUMBING</b>			
Item No.	Ref. Sheet	Description	Dwg. No.
<b>5-002</b>	P-102, P-104, P-105, P-106, P-112, p-113, P-300, P-400, P-600	The Plumbing sheet attachments for Addendum 4 were inadvertently omitted from the issued attachments for that addendum. They are now being issued as part of Addendum 5, however the changes on the sheets still reference Addendum #4.	P-102, P-104, P-105, P-106, P-112, p-113, P-300, P-400, P-600

If your proposal has been submitted and you wish to amend it, please modify your proposal on company letterhead. The amended proposal must be received prior to or included at the time and date set for the proposal opening. Each modification submitted to the District's Purchasing Office located at 1617 S. Acoma St. Denver, CO 80223. **It must have Vendor's name and return address and the applicable RFP number and title of the RFP clearly marked on the face of the envelope.**

If more than one modification is submitted, the modification bearing the latest date of receipt by the District's Strategic Sourcing Office will be considered the valid modification.

**\*\*\*\*This addendum must be acknowledged, whether or not you amend your proposal.\*\*\*\***

**This Addendum must be included in your submittal or proposal, providing you do not need to amend your proposal.**

PRINT OR TYPE YOUR INFORMATION

Name of Company: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Address: \_\_\_\_\_ City/State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Authorized Representative's Signature: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

# BID FORM

**BASE BID**

**TO: SCHOOL DISTRICT NO 1 IN THE  
CITY AND COUNTY OF DENVER  
AND STATE OF COLORADO**

**PROJECT: Florence Crittenton Renovations**

**Date: August 6, 2014**

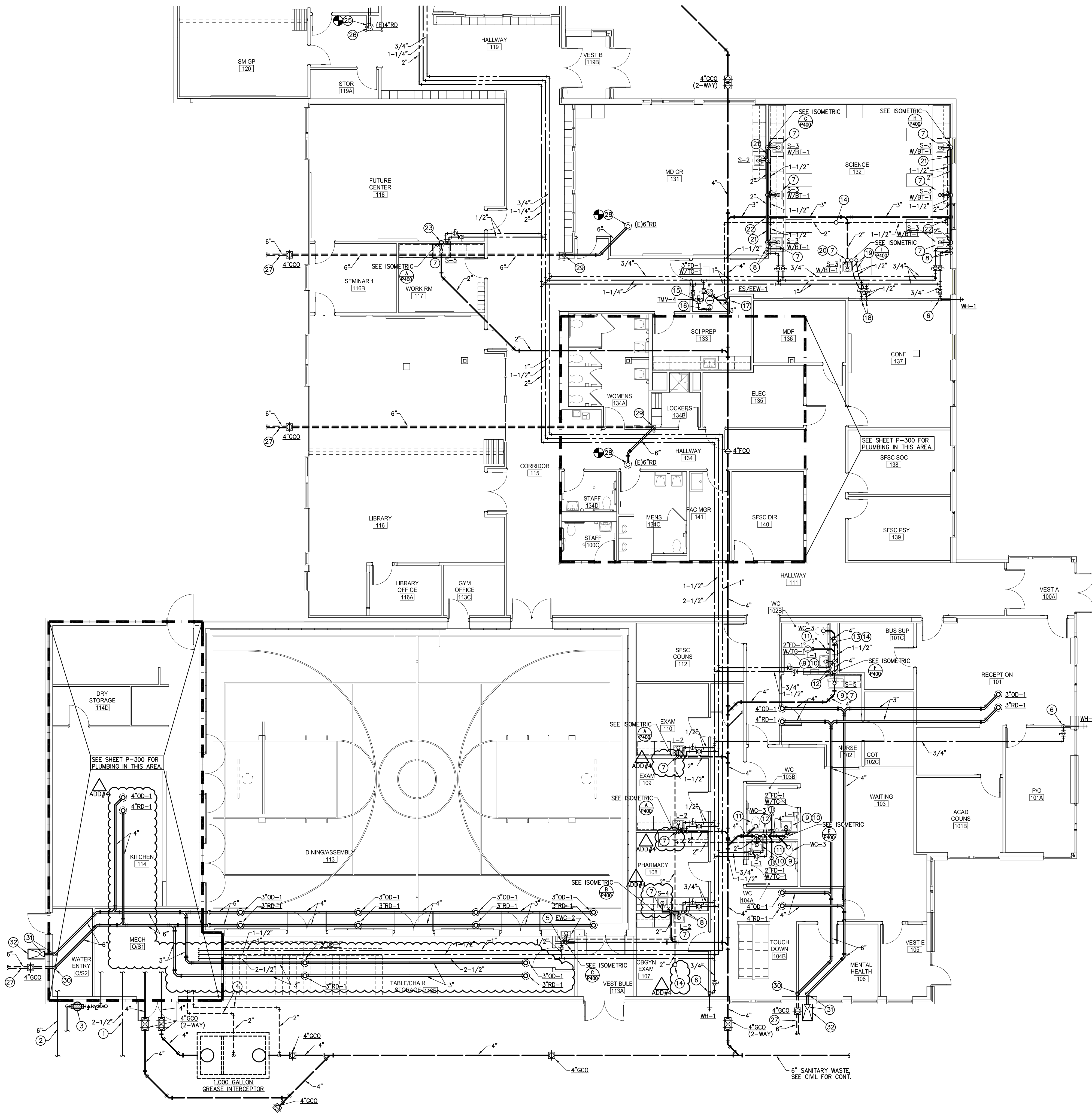
**LOCATIONS: Florence Crittenton 55 S. Zuni St. Denver, CO 80223**

**Florence Crittenton 96 S. Zuni St. Denver, CO 80223**

**14-MC-2187**

School	Bid Amount
<p><b>F.C. H.S. Parcel A-</b> Denver Public Schools High School Renovation /Addition – 55 S. Zuni Street Includes all associated work described within the bid documents for 55 South Zuni to construct and renovate the DPS Florence Crittenton High School. Please note G-103 Phasing Plan – Parcel A to be completed in Phase I.</p>	\$ _____
<p><b>F.C. H.S. Parcel B-</b> Florence Crittenton Services Renovation – 96 South Zuni Street Includes all associated work described within the bid documents for 96 South Zuni to renovate the Florence Crittenton Services ECE and offices. Please note G-103 Phasing Plan – Parcel B to be completed in Phase II and III.</p>	\$ _____
<p><b>F.C. H.S. Parcel C-</b> Site Development / Improvements – 55 South Zuni Street and 96 South Zuni Street Includes all associated work in both 55 &amp; 96 South Zuni bid documents specific to Civil, Landscape and Site Electrical. Please note G-103 Phasing Plan – Parcel C to be completed in Phase I and III.</p>	\$ _____
<p><b>Alternate 1 - Inclusion of the Aridus Rapid Drying Concrete</b></p>	\$ _____
<p><b>Unit Price 1 – Price for vapor emission control treatment of floor slab, per 100 sq feet</b></p>	\$ _____
<p>Xcel Rebate- DPS requires the selected contractor to utilize the Xcel Rebate Program and the Design Lights Consortium program for the following items: Mechanical - RTU, MAU, VFD, Pumps, Boilers, and Motors. Electrical - LED and low wattage T-8 lighting, LED Exit Signs, Wall Packs, Canopy &amp; Soffitt Fixtures, and Refrigerator Case Lighting. Provide an allowance for the anticipated rebate.</p>	\$ _____

**DPS will be awarding all Parcel projects to one vendor.**

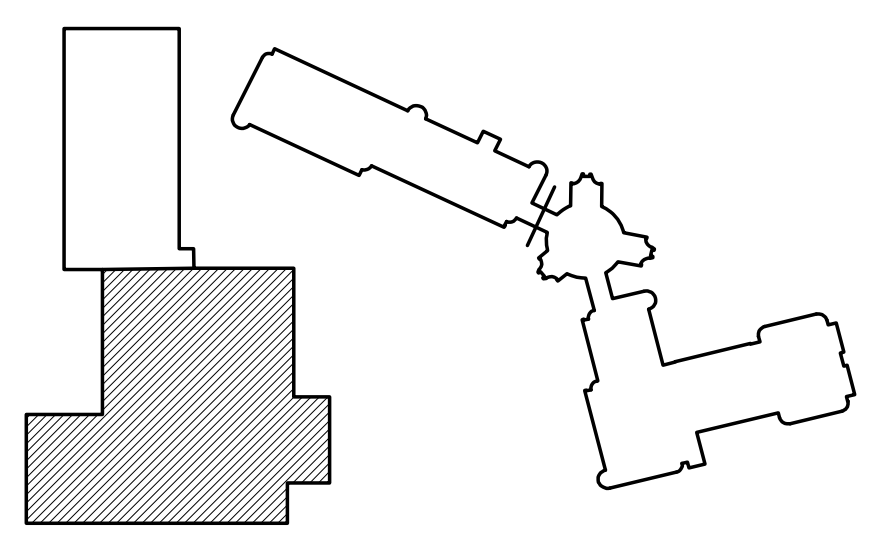


- PLUMBING KEYNOTES:**
- ① 2-1/2" DOMESTIC WATER SERVICE TO 2" WATER METER. SEE CIVIL PLANS FOR CONTINUATION AND METER LOCATION.
  - ② 6" FIRE SERVICE. SEE CIVIL PLANS FOR CONT.
  - ③ GAS METER/SERVICE.
  - ④ (2) 2" VENT LINES TO GREASE INTERCEPTOR.
  - ⑤ 2" W. DN., 1-1/2" V. RISE, 1/2" CW TO ELECTRIC WATER COOLER.
  - ⑥ 3/4" CW DOWN TO WALL HYDRANT.
  - ⑦ 2" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY/SINK.
  - ⑧ 3/4" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
  - ⑨ 1/2" CW & 1/2" HW TO THERMOSTATIC MIXING VALVE TMV-1 UNDER SINK/LAV.
  - ⑩ 2" W. DN., 2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY.
  - ⑪ 4" WASTE & 1" CW TO WATER CLOSET.
  - ⑫ 1-1/2" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
  - ⑬ 2" VENT RISE.
  - ⑭ 2" VENT RISE TO 3" VTR.
  - ⑮ 1-1/4" CW & 1-1/4" HW TO THERMOSTATIC MIXING VALVE TMV-4.
  - ⑯ 1-1/4" TW DOWN TO EMERGENCY SHOWER/EYEWASH.
  - ⑰ 1-1/2" VENT RISE.
  - ⑱ 1/2" CW & 1/2" HW DOWN IN WALL AND OFFSET UNDERGROUND TO SINK.
  - ⑲ LINES RUNNING UNDERGROUND.
  - ⑳ PROVIDE AIR ADMITTANCE VALVE.
  - ㉑ WASTE LINE RUNNING IN WALL ABOVE FLOOR SLAB.
  - ㉒ WASTE LINE DOWN AND OFFSET UNDERGROUND.
  - ㉓ 1-1/2" VENT RISE TO 3" VTR.
  - ㉔ 3" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO MOP SINK.
  - ㉕ CONNECT EXISTING 4" ROOF DRAIN TO NEW 4" RWL.
  - ㉖ 4" RWL DOWN IN WALL/CHASE W/ 4" CLEANOUT.
  - ㉗ 6" STORM DRAIN LINE. SEE CIVIL PLANS FOR CONTINUATION.
  - ㉘ CONNECT EXISTING 6" ROOF DRAIN TO NEW 6" RWL.
  - ㉙ 6" RWL DOWN IN WALL/CHASE W/ 4" CLEANOUT.
  - ㉚ 6" RWL DOWN ON WALL W/ 4" CLEANOUT.
  - ㉛ 6" OVERFLOW DOWN AND DISCHARGE 18" ABOVE GRADE W/ DOWNSPOUT NOZZLE.
  - ㉜ DISCHARGE OVERFLOW TO SPLASH BLOCK.

**NEW GAS LOAD SCHEDULE**

APPLIANCE	LOAD
(N) GAS WATER HEATER GWH-1	800.0 MBH
(N) BOILER B-1	399.0 MBH
(N) BOILER B-2	399.0 MBH
(N) BOILER B-3	399.0 MBH
(N) ROOF TOP UNIT RTU-1	600.0 MBH
(N) ROOF TOP UNIT RTU-2	600.0 MBH
(N) ROOF TOP UNIT RTU-3	480.0 MBH
(N) MAKE-UP AIR UNIT MAU-1	400.0 MBH
(N) KITCHEN EQUIPMENT	440.0 MBH
<b>TOTAL</b>	<b>4,517.0 MBH INPUT @ S.L. (14" W.C. GAS). M.C. TO COORDINATE WITH XCEL.</b>

**SOUTH WING PLUMBING PLAN**  
SCALE: 1/8"=1'-0"



07.24.14	BID ADDENDUM #4	OZ	KY		
06.25.14	FOR CONSTRUCTION	OZ	KY		
04.11.14	50% CONSTRUCTION DOCUMENTS	OZ	KY		
01.10.14	100% SCHEMATIC DESIGN / DESIGN DEVELOPMENT	OZ	KY		
NO.	DATE	DESCRIPTION OF REVISION	AUTHORITY	MADE	APPRD

**DENVER PUBLIC SCHOOLS**  
DEPARTMENT OF FACILITY MANAGEMENT  
SCHOOL DISTRICT NO. 1 SCHOOL NO. 982 SITE NO. DENVER, CO

**FLORENCE CRITTENTON**  
11326E, 00  
ZUNI STREET  
DENVER, COLORADO

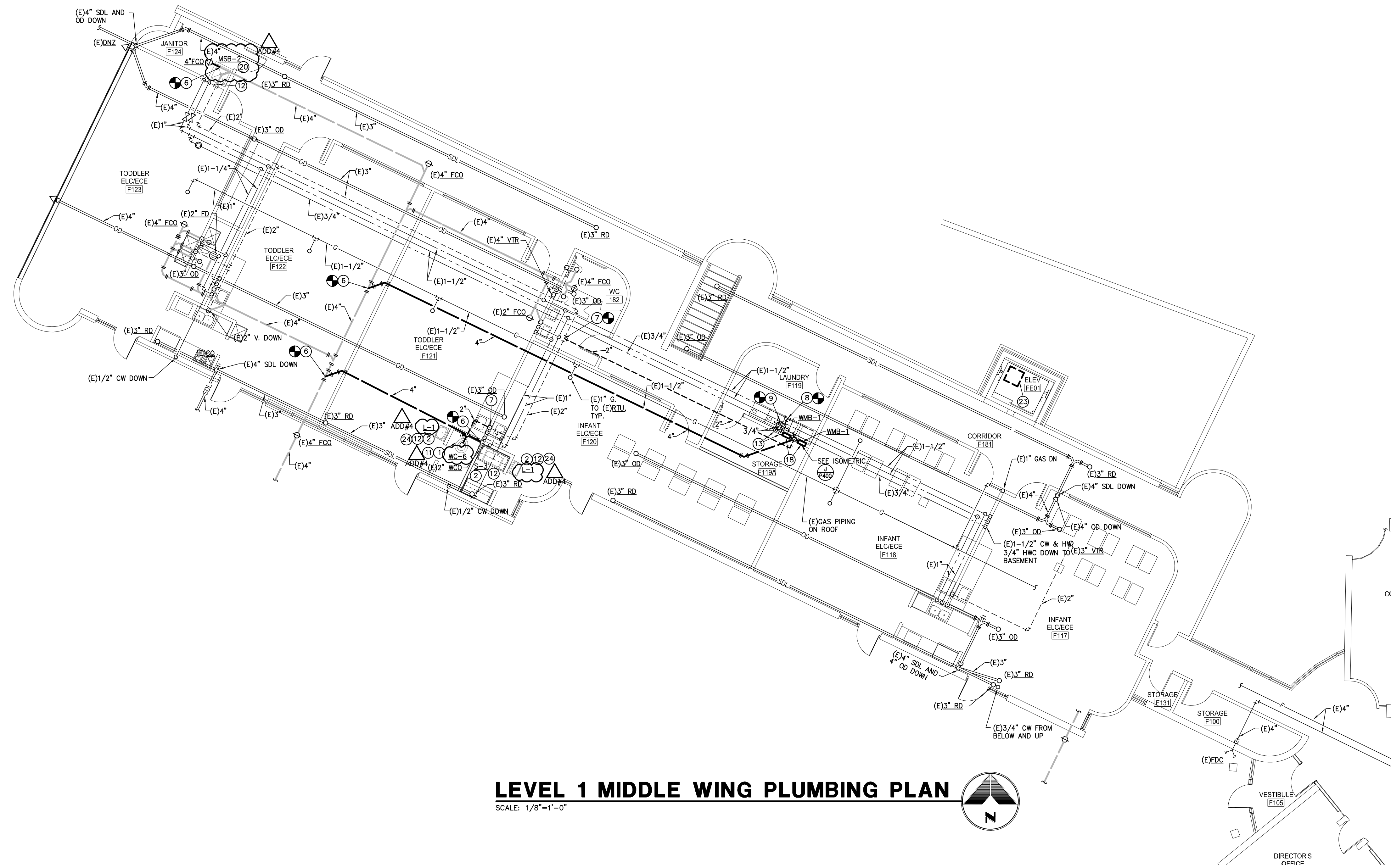
**SOUTH WING PLUMBING PLAN**

DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITY MANAGEMENT	DESIGNED BY: FJG DRAWN BY: FJG CHECKED BY: TRH DATE: June 25, 2014 SCALE: 1/8" = 1'-0"	3003 Larimer Street Denver, CO 80205 phone 303.861.5704 www.ozarch.com	DWG NO. <b>P-102</b>	SHEET: ???
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PLOT DATE: JULY 24, 2014 @ 8:00AM  
 FILE LOCATION: N:\114545\F102\_THRU\_F106.dwg LAYOUT NAME: P-102

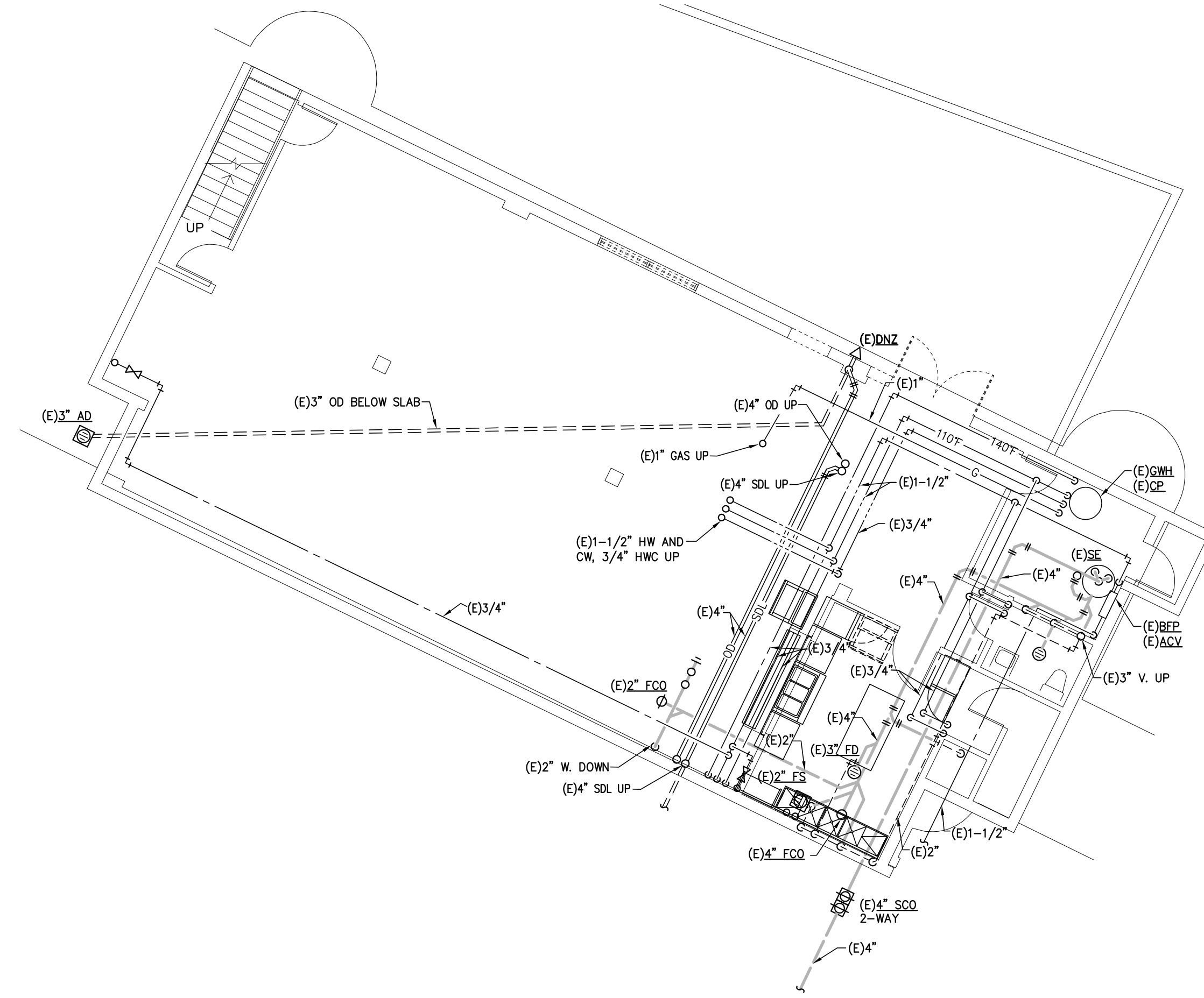
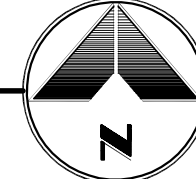


970-684/1101 - P-102



**LEVEL 1 MIDDLE WING PLUMBING PLAN**

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



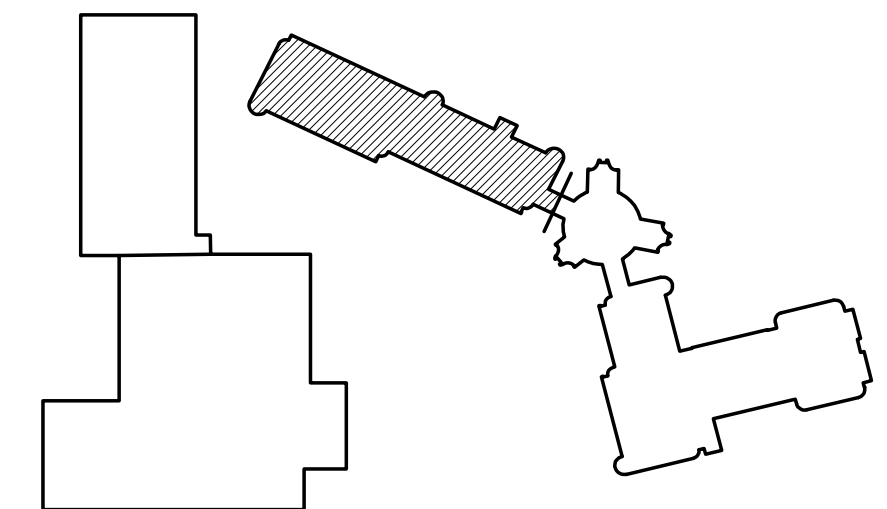
**LEVEL 2 MIDDLE WING PLUMBING PLAN**

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



**PLUMBING KEYNOTES:**

- ① 4" WASTE & 1/2" CW TO WATER CLOSET.
- ② 2" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY/SINK.
- ③ 2" W. DN., 2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY.
- ④ 2" VENT RISE.
- ⑤ 2" VENT RISE TO 3" VTR.
- ⑥ CONNECT NEW WASTE LINE TO EXIST. WASTE LINE.
- ⑦ CONNECT NEW VENT LINE TO EXIST. VENT LINE.
- ⑧ CONNECT NEW CW LINE TO EXIST. CW LINE.
- ⑨ CONNECT NEW HW LINE TO EXIST. HW LINE.
- ⑩ CONNECT NEW HWC LINE TO EXIST. HWC LINE.
- ⑪ EXTEND 1/2" CW IN WALL TO WATER CLOSET.
- ⑫ CONNECT NEW FIXTURE TO EXIST. PLUMBING IN WALL.
- ⑬ 3/4" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑭ 1-1/4" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑮ PROVIDE AIR ADMITTANCE VALVE.
- ⑯ 1" CW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑰ PROVIDE BALANCING VALVE SET AT 1.0 GPM.
- ⑱ 4" W. DN., 2" V. RISE, 1/2" CW & 1/2" HW TO WASHER BOX.
- ⑲ PROVIDE BALANCING VALVE SET AT 1.0 GPM.
- ⑳ 3" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO MOP SINK.
- ㉑ CONNECT NEW CW & HW LINES TO EXIST. CW & HW LINES.
- ㉒ 4" RISE FROM UP FROM 2ND FLOOR. CONNECT TO EXIST. 4" VTR.
- ㉓ 24" X 24" X 36" ELEVATOR SUMP BY G.C.
- ㉔ 1/2" CW & 1/2" HW TO THERMOSTATIC MIXING VALVE UNDER LAV/SINK.



NO.	DATE	DESCRIPTION OF REVISION	AUTHORITY	MADE	APPR'D
3	07.24.14	BID ADDENDUM #4	OZ	KY	
2	06.25.14	FOR CONSTRUCTION	OZ	KY	
1	04.11.14	50% CONSTRUCTION DOCUMENTS	OZ	KY	
1	01.10.14	100% SCHEMATIC DESIGN / DESIGN DEVELOPMENT	OZ	KY	

<p><b>DENVER PUBLIC SCHOOLS</b> DEPARTMENT OF FACILITY MANAGEMENT SCHOOL DISTRICT NO. 1 SCHOOL NO. 982 SITE NO. DENVER, CO</p> <p><b>FLORENCE CRITTENTON</b> 113266.00 ZUNI STREET DENVER, COLORADO</p>		<p><b>MIDDLE WING PLUMBING PLANS</b></p>		
		<p>DWG NO. <b>P-104</b></p>	<p>DATE: JUN 25, 2014</p>	
<p>DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITY MANAGEMENT</p>		<p>DESIGNED BY: FJG</p> <p>DRAWN BY: FJG</p> <p>CHECKED BY: TRH</p> <p>SCALE: 1/8" = 1'-0"</p>	<p>3003 Larimer Street Denver, CO 80205 Phone 303.861.5704 www.ozarch.com</p>	<p>SHEET ??? OF</p>



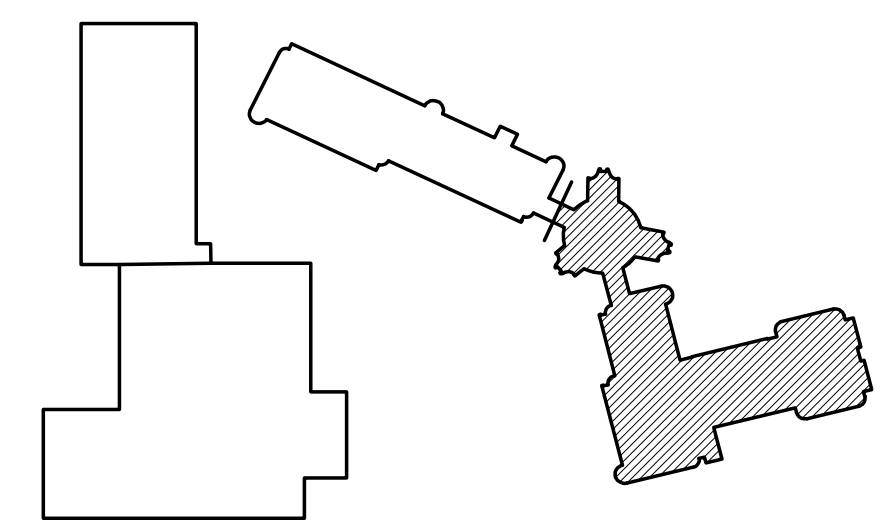
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 PLOT NAME: P-104

970-6841101 - P-104



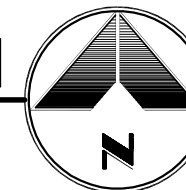
**PLUMBING KEYNOTES:**

- ① 4" WASTE & 1/2" CW TO WATER CLOSET.
- ② 2" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY/SINK.
- ③ 2" W. DN., 2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY.
- ④ 2" VENT RISE.
- ⑤ 2" VENT RISE TO 3" VTR.
- ⑥ CONNECT NEW WASTE LINE TO EXIST. WASTE LINE.
- ⑦ CONNECT NEW VENT LINE TO EXIST. VENT LINE.
- ⑧ CONNECT NEW CW LINE TO EXIST. CW LINE.
- ⑨ CONNECT NEW HW LINE TO EXIST. HW LINE.
- ⑩ CONNECT NEW HWC LINE TO EXIST. HWC LINE.
- ⑪ EXTEND 1/2" CW IN WALL TO WATER CLOSET.
- ⑫ CONNECT NEW FIXTURE TO EXIST. PLUMBING IN WALL.
- ⑬ 3/4" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑭ 1-1/4" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑮ PROVIDE AIR ADMITTANCE VALVE.
- ⑯ 1" CW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑰ PROVIDE BALANCING VALVE SET AT 1.0 GPM.
- ⑱ 4" W. DN., 2" V. RISE, 1/2" CW & 1/2" HW TO WASHER BOX.
- ⑲ PROVIDE BALANCING VALVE SET AT 1.0 GPM.
- ⑳ 3" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO MOP SINK.
- ㉑ CONNECT NEW CW & HW LINES TO EXIST. CW & HW LINES.
- ㉒ 4" RISE FROM UP FROM 2ND FLOOR, CONNECT TO EXIST. 4" VTR.
- ㉓ 24" X 24" X 36" ELEVATOR SUMP BY G.C.
- ㉔ 1/2" CW & 1/2" HW TO THERMOSTATIC MIXING VALVE UNDER LAV/SINK.



**EAST WING PLUMBING PLAN**

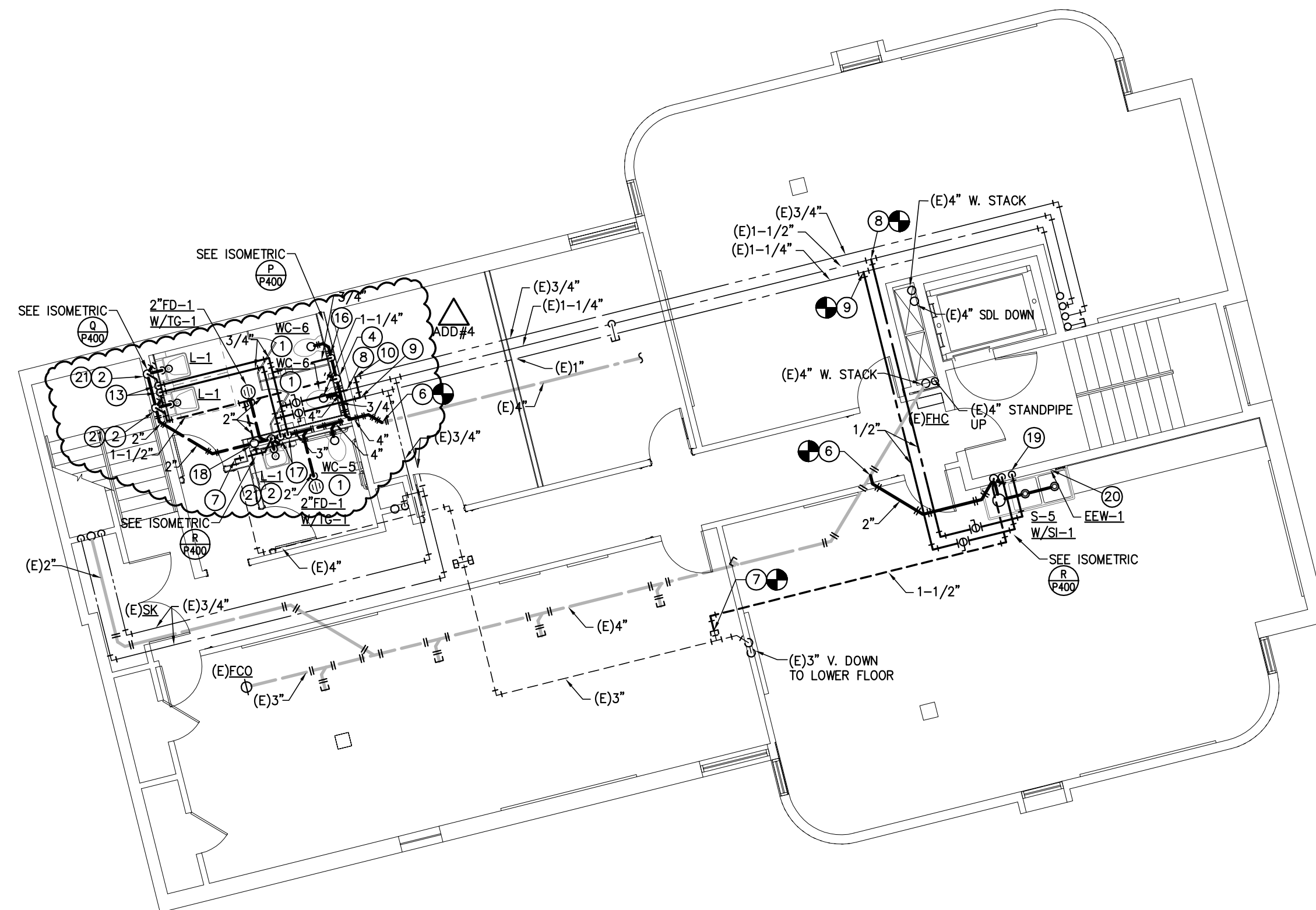
SCALE: 1/8"=1'-0"



NO.	DATE	DESCRIPTION OF REVISION	AUTHORITY	MADE	APPRD
3	07.24.14	BID ADDENDUM #4	OZ	KY	
	06.25.14	FOR CONSTRUCTION	OZ	KY	
2	04.11.14	50% CONSTRUCTION DOCUMENTS	OZ	KY	
1	01.10.14	100% SCHEMATIC DESIGN / DESIGN DEVELOPMENT	OZ	KY	

<b>DENVER PUBLIC SCHOOLS</b>					
DEPARTMENT OF FACILITY MANAGEMENT					
SCHOOL DISTRICT NO. 1		SCHOOL NO. 982		SITE NO. DENVER, CO	
<b>FLORENCE CRITTENTON</b>					
11326E.00 ZUNI STREET DENVER, COLORADO					
<b>EAST WING PLUMBING PLAN</b>					
DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITY MANAGEMENT	DESIGNED BY: EJG	CHECKED BY: TRH	DATE: June 25, 2014	SCALE: 1/8" = 1'-0"	
	3033 Larimer Street Denver, CO 80205 phone 303.861.5704 www.ozarch.com		DWG NO. <b>P-105</b>		SHEET: ???



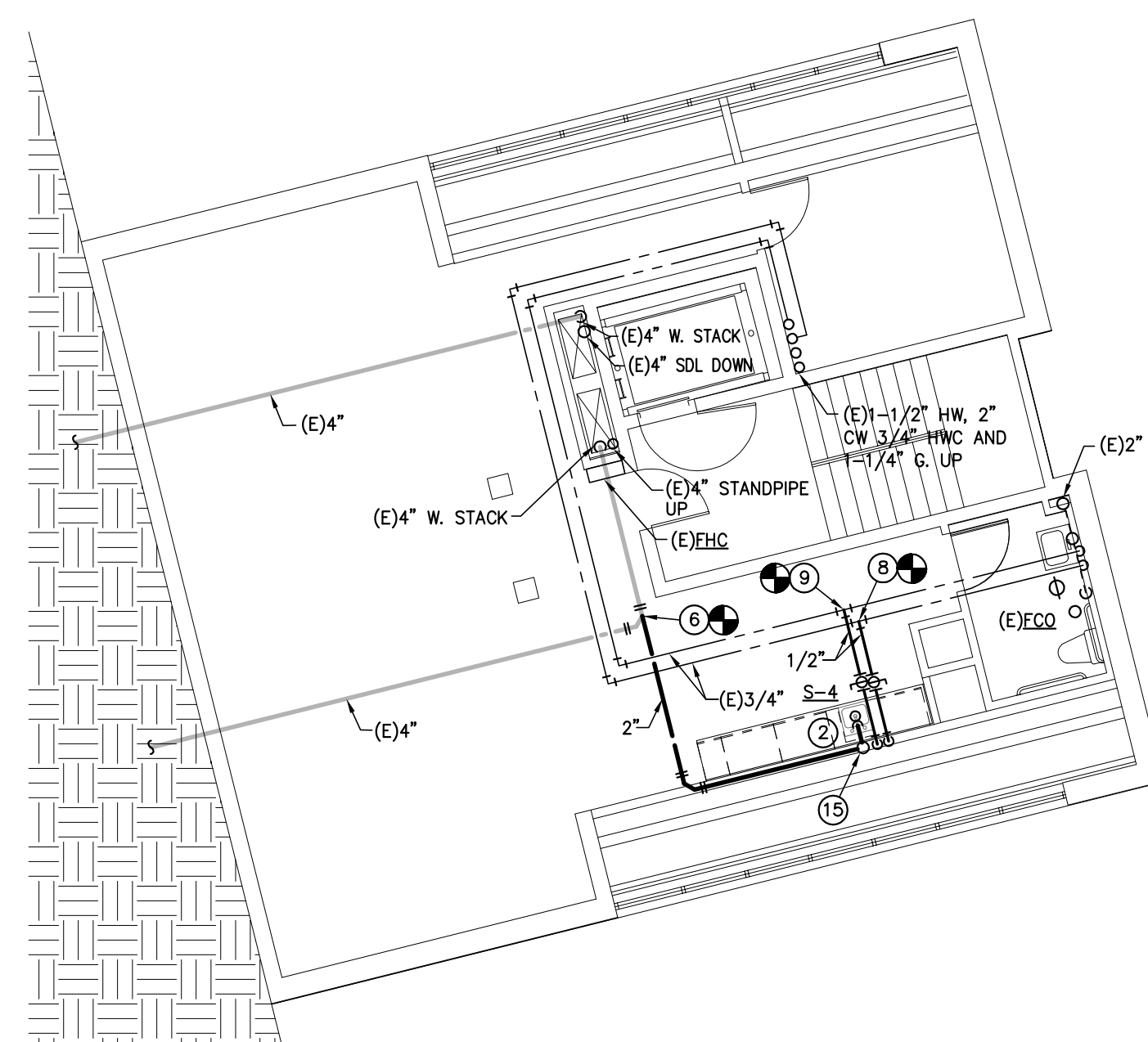
**LEVEL 2 TOWER PLUMBING PLAN**

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



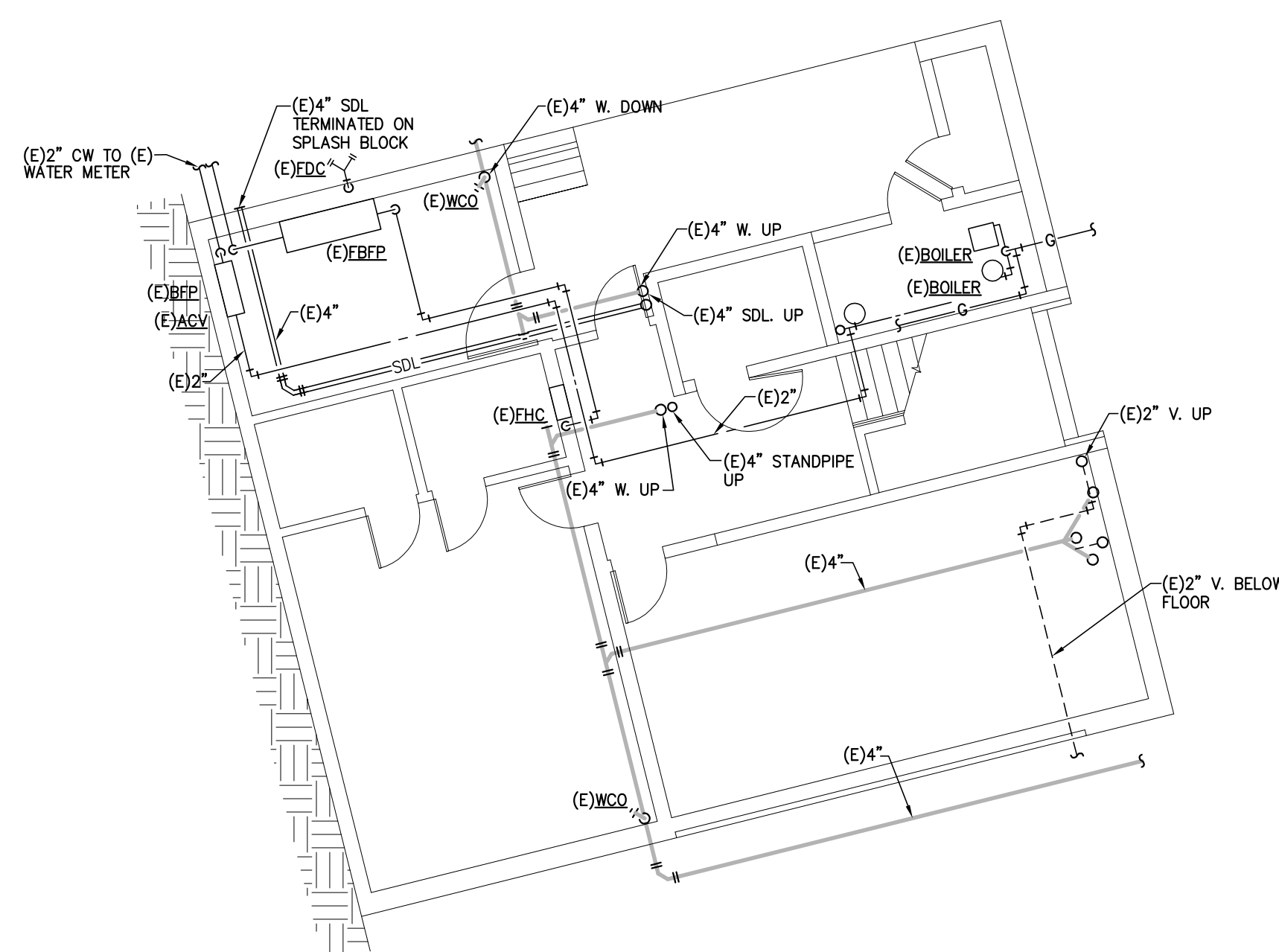
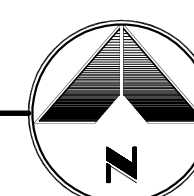
**PLUMBING KEYNOTES:**

- ① 4" WASTE & 1/2" CW TO WATER CLOSET.
- ② 2" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY/SINK.
- ③ 2" W. DN., 2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY.
- ④ 2" VENT RISE.
- ⑤ 2" VENT RISE TO 3" VTR.
- ⑥ CONNECT NEW WASTE LINE TO EXIST. WASTE LINE.
- ⑦ CONNECT NEW VENT LINE TO EXIST. VENT LINE.
- ⑧ CONNECT NEW CW LINE TO EXIST. CW LINE.
- ⑨ CONNECT NEW HW LINE TO EXIST. HW LINE.
- ⑩ CONNECT NEW HWC LINE TO EXIST. HWC LINE.
- ⑪ EXTEND 1/2" CW IN WALL TO WATER CLOSET.
- ⑫ RECONNECT NEW FIXTURE TO EXIST. PLUMBING IN WALL.
- ⑬ 3/4" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑭ 1-1/4" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑮ PROVIDE AIR ADMITTANCE VALVE.
- ⑯ 3/4" CW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑰ 3/4" CW & 1/2" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑱ 4" VENT RISER UP TO 1ST FLOOR.
- ⑲ 2" W. THRU SOLIDS INTERCEPTOR, 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO ART SINK.
- ⑳ 1/2" CW & 1/2" HW TO EEW-1 THERMOSTATIC MIXING VALVE, 1/2" TW TO EEW-1 INLET.
- ㉑ 1/2" CW & 1/2" HW TO THERMOSTATIC MIXING VALVE TMV-1 UNDER SINK.



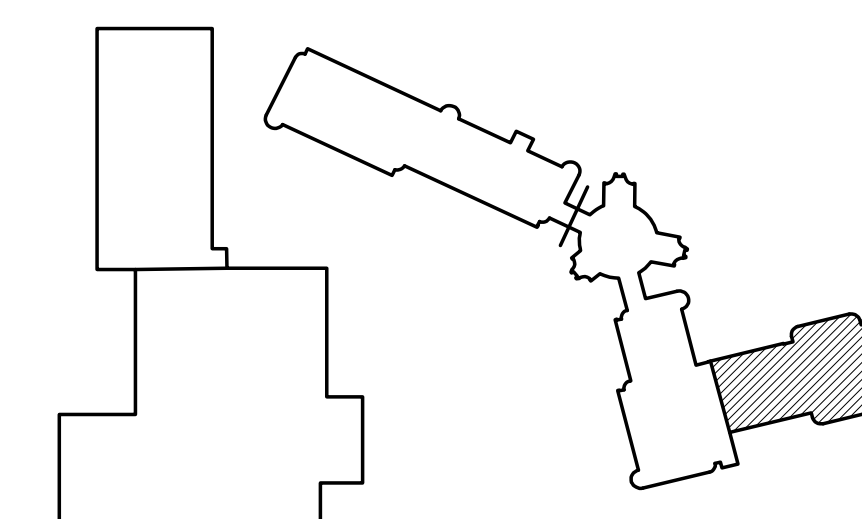
**LEVEL 3 TOWER PLUMBING PLAN**

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



**LEVEL 4 TOWER PLUMBING PLAN**

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



NO.	DATE	DESCRIPTION OF REVISION	AUTHORITY	MADE	APPRD
3	07.24.14	BID ADDENDUM #4	OZ	KY	
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1	01.10.14	100% SCHEMATIC DESIGN / DESIGN DEVELOPMENT	OZ	KY	

**DENVER PUBLIC SCHOOLS**  
DEPARTMENT OF FACILITY MANAGEMENT  
SCHOOL DISTRICT NO. 1 SCHOOL NO. 982 SITE NO. DENVER, CO

**FLORENCE CRITTENTON**  
11326E.00  
ZUNI STREET  
DENVER, COLORADO

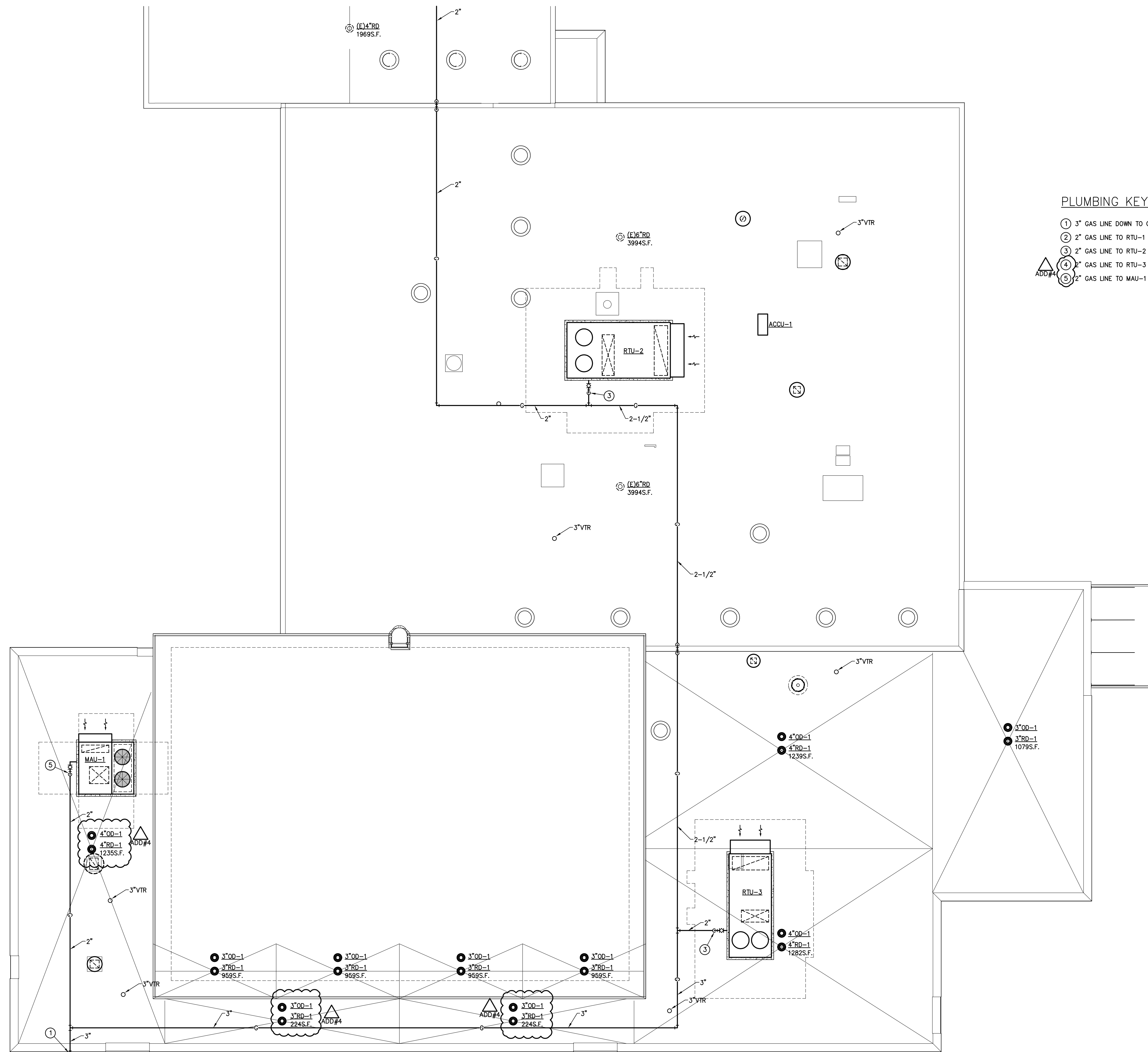
**EAST WING TOWER  
PLUMBING PLANS**

DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITY MANAGEMENT	DESIGNED BY: FJG DRAWN BY: FJG CHECKED BY: TRH DATE: June 25, 2014 SCALE: 1/8" = 1'-0"	3003 Larimer Street Denver, CO 80205 phone 303.861.5704 www.ozarch.com	DWG NO. <b>P-106</b>	SHEET: ???
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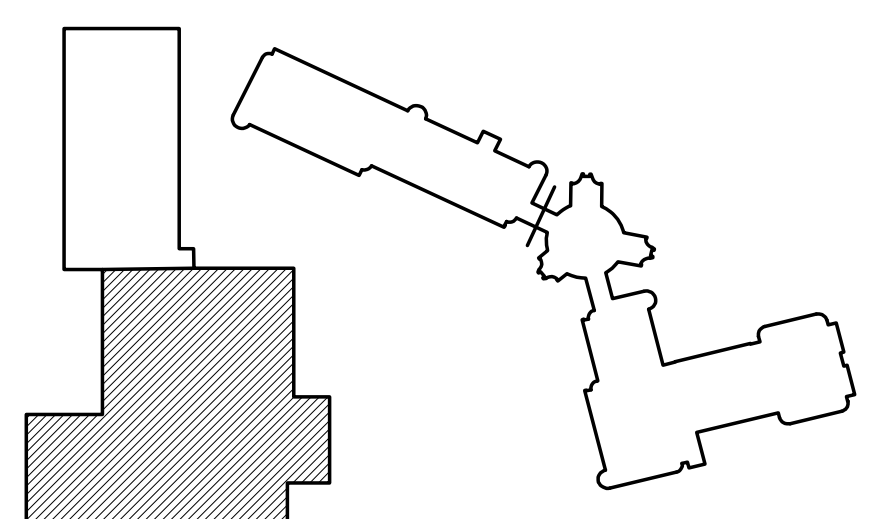
DATE: 970-684/1101 - P-106



PLOT DATE: JULY 24, 2014 @ 8:02AM  
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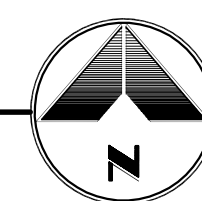


- PLUMBING KEYNOTES:**
- ① 3" GAS LINE DOWN TO GAS METER.
  - ② 2" GAS LINE TO RTU-1 W/ GAS COOK & 6" DIRT LEG.
  - ③ 2" GAS LINE TO RTU-2 W/ GAS COOK & 6" DIRT LEG.
  - ④ 2" GAS LINE TO RTU-3 W/ GAS COOK & 6" DIRT LEG.
  - ⑤ 2" GAS LINE TO MAU-1 W/ GAS COOK & 6" DIRT LEG.



**SOUTH WING ROOF PLUMBING PLAN**

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



NO.	DATE	DESCRIPTION OF REVISION	AUTHORITY	MADE	APPRD
3	06.25.14	FOR CONSTRUCTION DOCUMENTS	OZ	KY	
2	04.11.14	50% CONSTRUCTION DOCUMENTS	OZ	KY	
1	01.10.14	100% SCHEMATIC DESIGN / DESIGN DEVELOPMENT	OZ	KY	

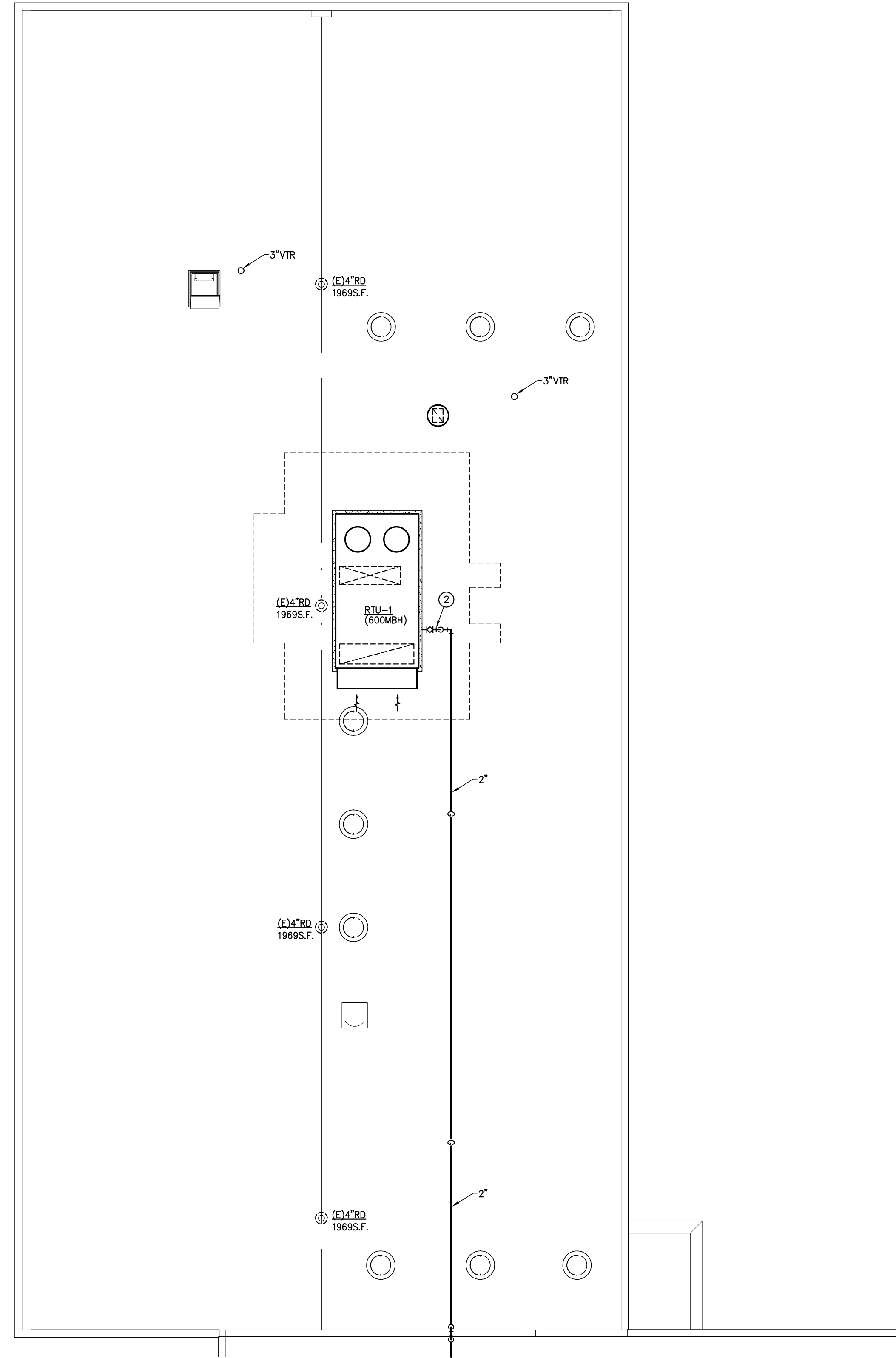
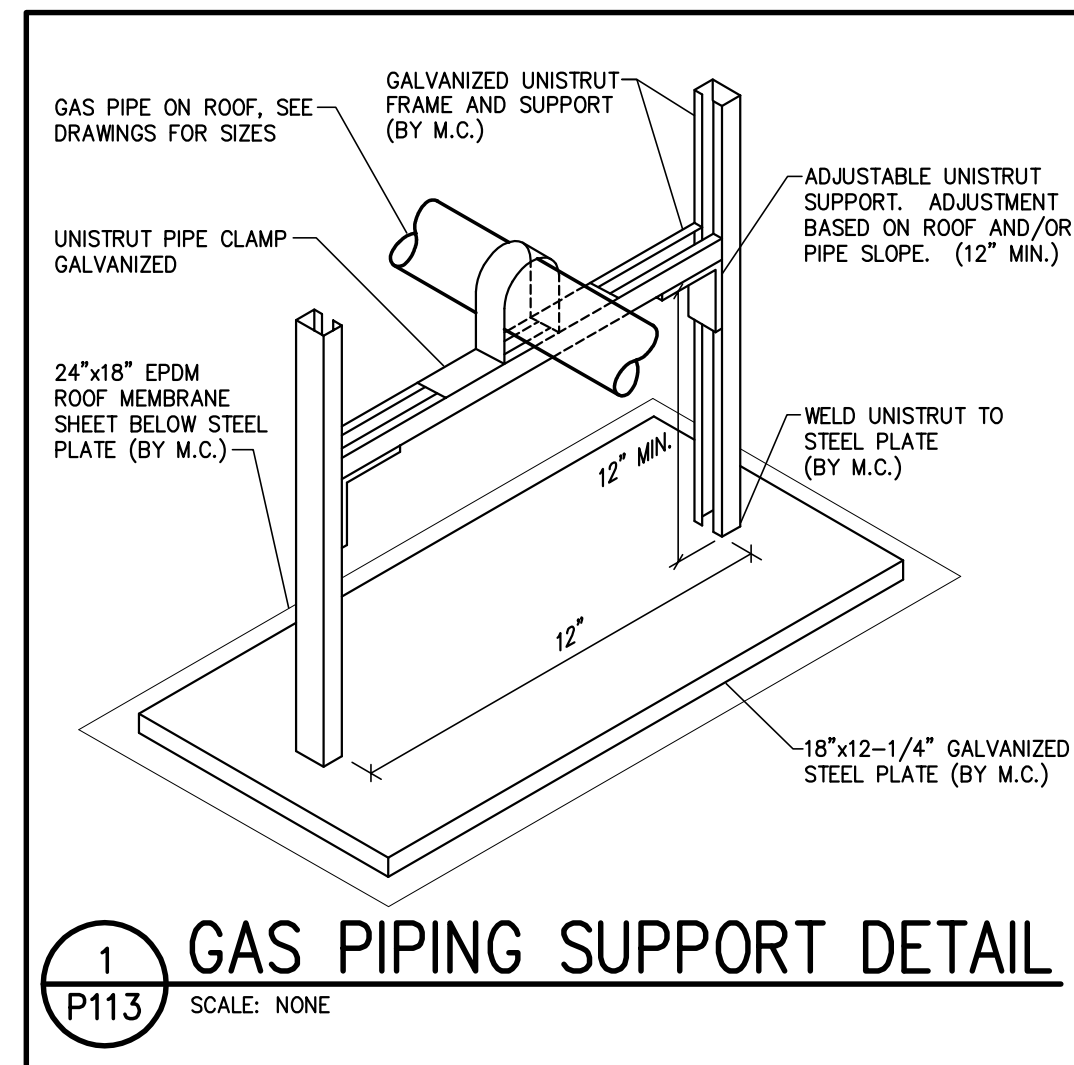
**DENVER PUBLIC SCHOOLS**  
 DEPARTMENT OF FACILITY MANAGEMENT  
 SCHOOL DISTRICT NO. 1 SCHOOL NO. 982 SITE NO. DENVER , CO  
**FLORENCE CRITTENTON**  
 11326E,00  
 ZUNI STREET  
 DENVER, COLORADO

DENVER PUBLIC SCHOOLS  
 DEPARTMENT OF  
 FACILITY MANAGEMENT

DESIGNED BY: FJG  
 DRAWN BY: FJG  
 CHECKED BY: TRH  
 DATE: June 25, 2014  
 SCALE: 1/8" = 1'-0"

**SOUTH WING ROOF  
 PLUMBING PLAN**  
 DWG NO. P-112  
 SHEET: ???  
 DATE:

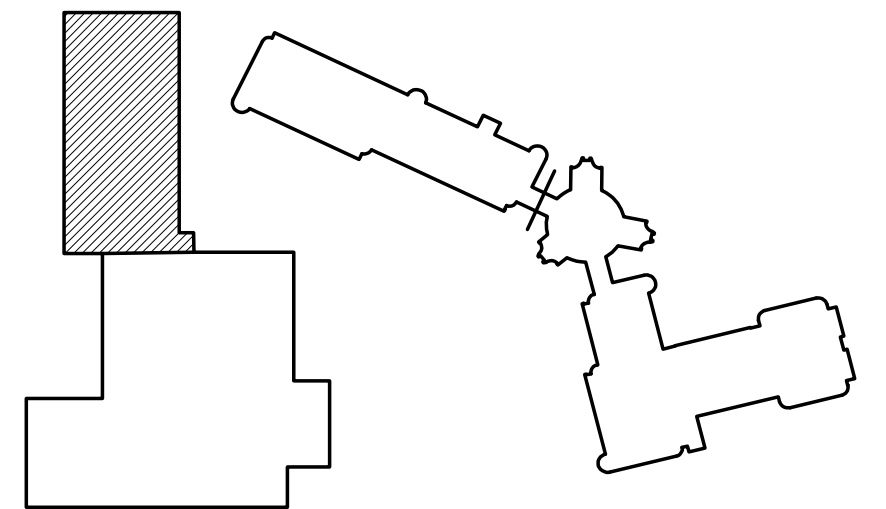
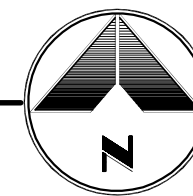
**The Ballard Group, Inc.**  
 Mechanical Consulting Engineers  
 3003 Larimer Street  
 Denver, CO 80205  
 phone 303.861.5704  
 www.o2arch.com



- PLUMBING KEYNOTES:**
- ① 3" GAS LINE DOWN TO GAS METER.
  - ② 2" GAS LINE TO RTU-1 W/ GAS COCK & 6" DIRT LEG.
  - ③ 2" GAS LINE TO RTU-2 W/ GAS COCK & 6" DIRT LEG.
  - ④ 2" GAS LINE TO RTU-3 W/ GAS COCK & 6" DIRT LEG.
  - ⑤ 2" GAS LINE TO MAU-1 W/ GAS COCK & 6" DIRT LEG.

**NORTH WING ROOF PLUMBING PLAN**

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



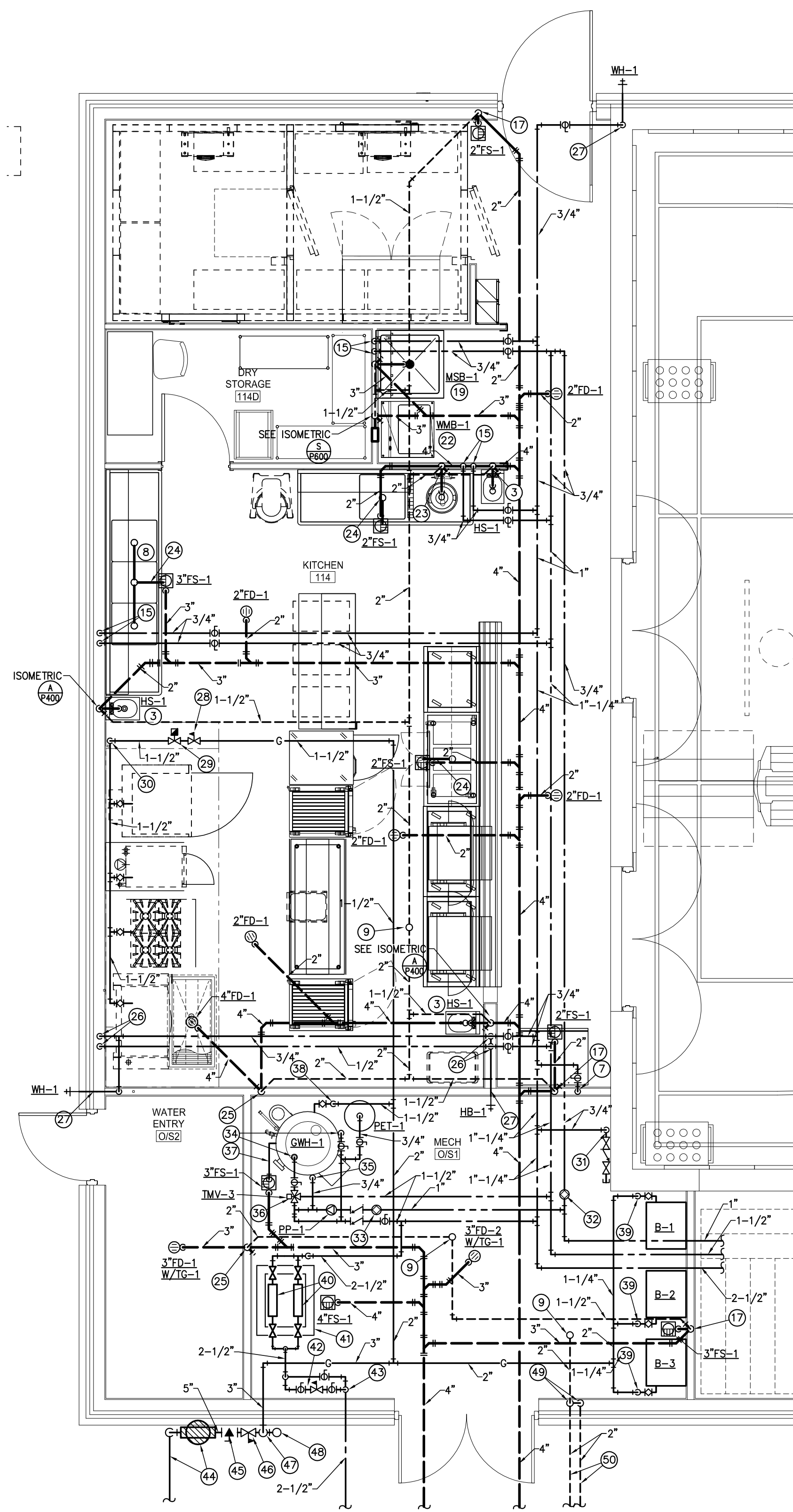
07.24.14	BID ADDENDUM #4	OZ	KY		
06.25.14	FOR CONSTRUCTION	OZ	KY		
04.11.14	50% CONSTRUCTION DOCUMENTS	OZ	KY		
01.10.14	100% SCHEMATIC DESIGN / DESIGN DEVELOPMENT	OZ	KY		
NO.	DATE	DESCRIPTION OF REVISION	AUTHORITY	MADE	APPRD

<b>DENVER PUBLIC SCHOOLS</b> DEPARTMENT OF FACILITY MANAGEMENT SCHOOL DISTRICT NO. 1 SCHOOL NO. 982 SITE NO. DENVER, CO		<b>FLORENCE CRITTENTON</b> 11326E,00 ZUNI STREET DENVER, COLORADO		
		<b>NORTH WING ROOF PLUMBING PLAN</b>		
DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITY MANAGEMENT	DESIGNED BY: FJG DRAWN BY: FJG CHECKED BY: TRH DATE: June 25, 2014 SCALE: 1/8" = 1'-0"	3003 Larimer Street Denver, CO 80205 phone 303.861.5704 www.ozarch.com	DWG NO. <b>P-113</b>	SHEET: ??? OR:

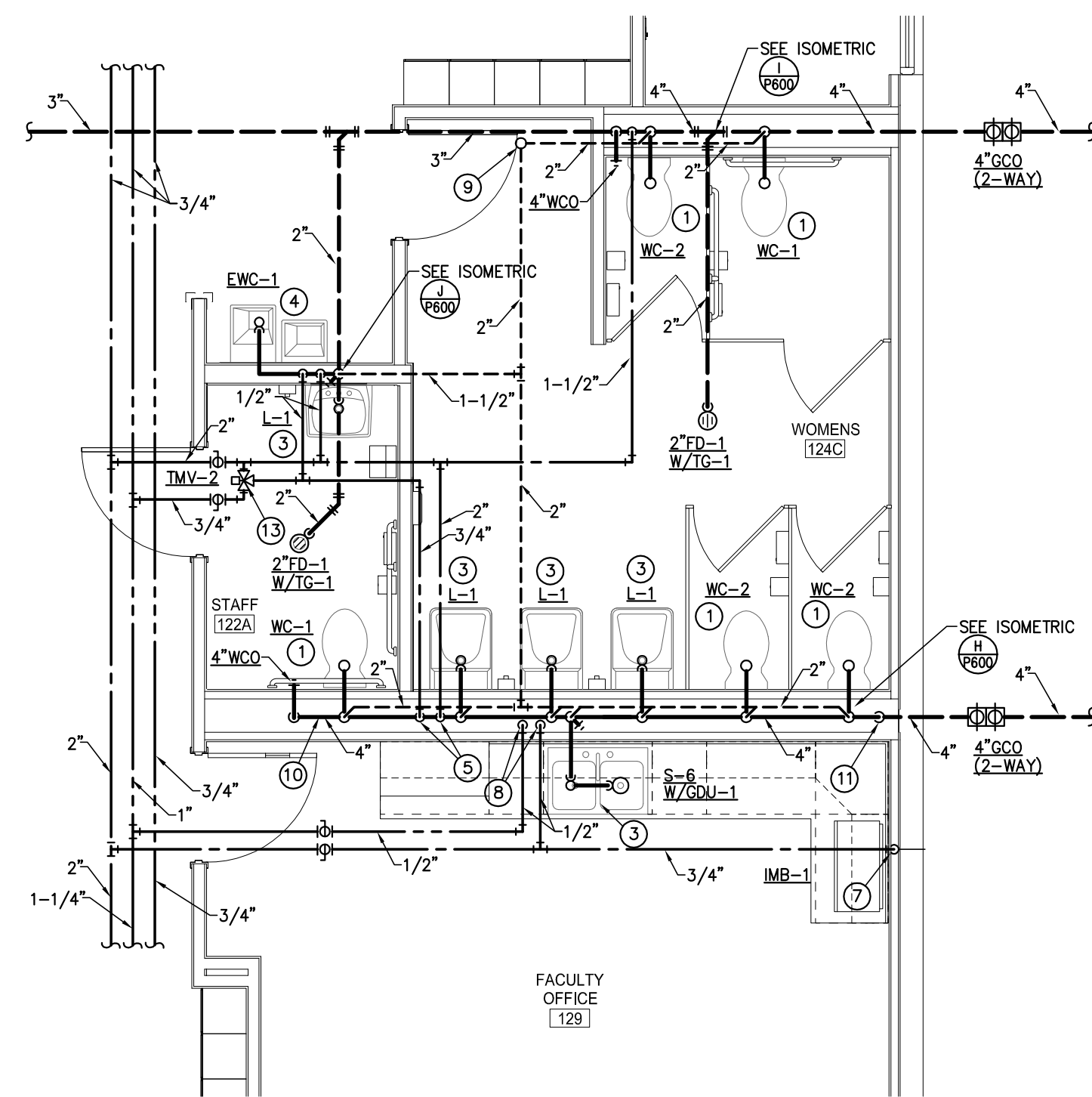
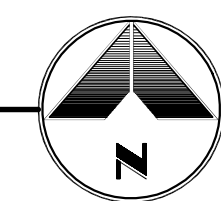
**The Ballard Group, Inc.**  
 Mechanical Consulting Engineers  
 13031 988-4514





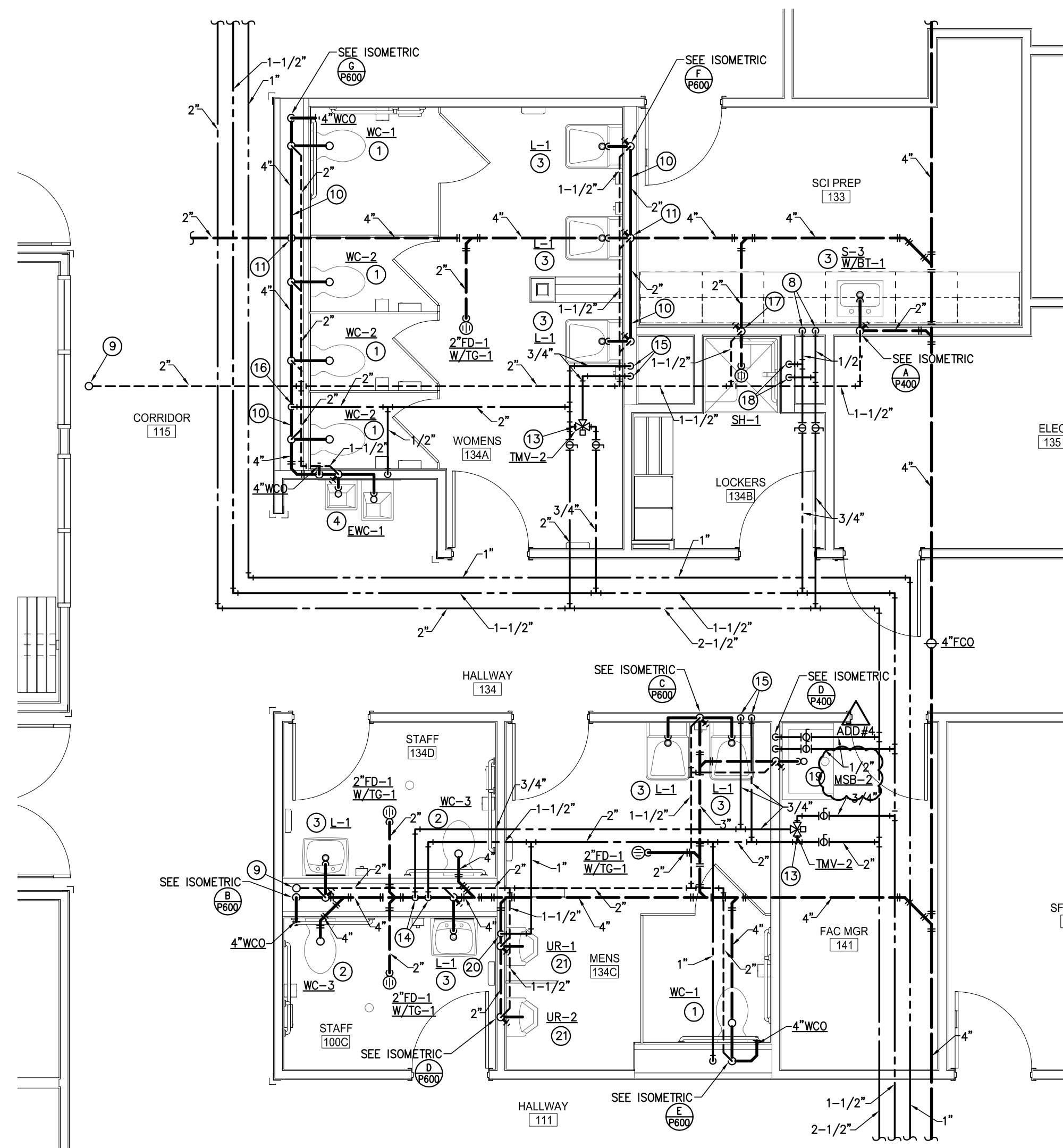
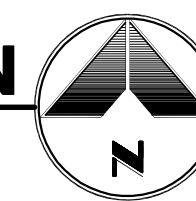
**KITCHEN/BOILER ROOM PLUMBING PLAN**

SCALE: 1/4"=1'-0"



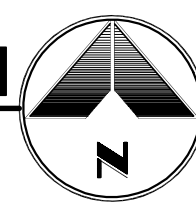
**RESTROOMS 124C/122A PLUMBING PLAN**

SCALE: 1/4"=1'-0"



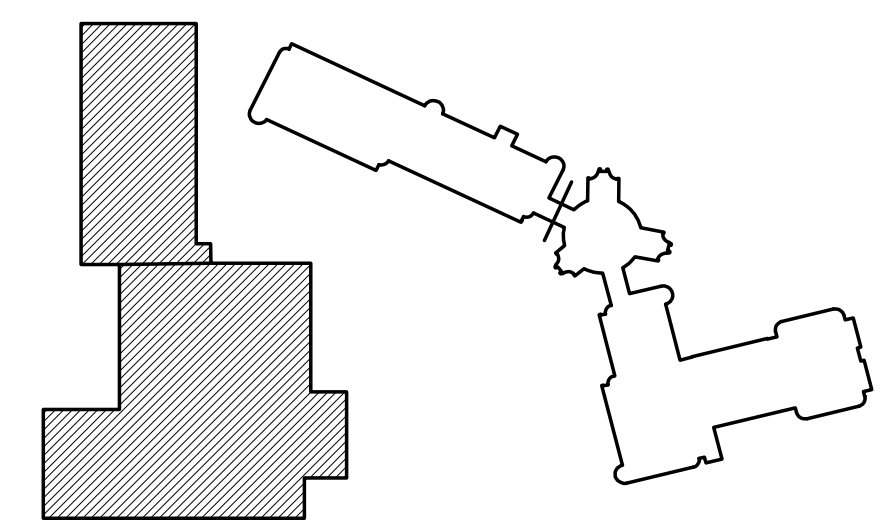
**RESTROOMS 134A/134C PLUMBING PLAN**

SCALE: 1/4"=1'-0"



**PLUMBING KEYNOTES:**

- ① 4" W. DN., 2" V. RISE & 1" CW TO WATER CLOSET.
- ② 4" WASTE & 1" CW TO WATER CLOSET.
- ③ 2" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAVATORY/SINK.
- ④ 2" W. DN., 1-1/2" V. RISE & 1/2" CW TO ELECTRIC WATER COOLER.
- ⑤ 2" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑥ 1-1/2" CW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑦ 1/2" CW DOWN IN WALL TO ICE MAKER/ICE MAKER BOX.
- ⑧ 1/2" CW & 1/2" HW TO SINK.
- ⑨ 2" VENT RISE TO 3" VTR.
- ⑩ WASTE LINE RUNNING ABOVE FLOOR SLAB.
- ⑪ WASTE LINE DOWN AND OFFSET UNDERGROUND.
- ⑫ 1/2" CW & 1/2" HW TO THERMOSTATIC MIXING VALVE TMV-1 UNDER LAV/SINK.
- ⑬ 3/4" CW & 3/4" HW TO THERMOSTATIC MIXING VALVE TMV-2.
- ⑭ 1-1/2" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑮ 3/4" CW & 3/4" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑯ 2" CW DOWN IN WALL AND OFFSET TO FIXTURES.
- ⑰ 1-1/2" VENT RISE.
- ⑱ 1/2" CW & 1/2" HW DOWN TO SHOWER.
- ⑲ 3" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO MOP SINK.
- ⑳ 1" CW DOWN IN WALL AND OFFSET TO FIXTURES.
- ㉑ 2" W. DN., 1-1/2" V. RISE & 3/4" CW TO URINAL.
- ㉒ 3" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO WASHER BOX.
- ㉓ 3" W. DN., 1-1/2" V. RISE, 3/4" CW & 1/2" HW TO GARBAGE DISPOSER, SEE DETAIL 11/P600.
- ㉔ DISCHARGE 2" DRAIN LINE TO FLOOR SINK W/ AIR GAP.
- ㉕ 2" VENT RISE.
- ㉖ 3/4" CW & 1/2" HW DOWN IN WALL AND OFFSET TO FIXTURES.
- ㉗ 3/4" CW TO WALL HYDRANT.
- ㉘ GAS PRV 1/4" TO 6" W.C. (440MBH INPUT), PIPE RELIEF VALVE TO EXTERIOR.
- ㉙ AUTOMATIC GAS SHUT-OFF VALVE, TIE TO FIRE SUPPRESSION SYSTEM PROVIDED BY HOOD FIRE SUPPRESSION SYSTEM, INSTALLED BY P.C.
- ㉚ 1-1/2" GAS LINE DOWN W/ 6" DIRT LEG, OFFSET TO EQUIPMENT.
- ㉛ 3/4" CW DOWN W/ RP BACKFLOW FOR BOILER WATER MAKE-UP.
- ㉜ BALANCING VALVE SET AT 2.0 GPM.
- ㉝ BALANCING VALVE SET AT 5.0 GPM.
- ㉞ 1-1/2" CW & 1-1/2" HW DOWN TO GAS WATER HEATER GWH-1, SEE DETAIL 1/P600.
- ㉟ 1" HWC RETURN TO GWH-1 HWC CONNECTION.
- ㊱ 1-1/2" CW & 1-1/2" HW TO THERMOSTATIC MIXING VALVE TMV-3.
- ㊲ 3/4" CONDENSATE LINE DISCHARGE TO FLOOR SINK W/ AIR GAP.
- ㊳ 1-1/2" GAS LINE DOWN TO GAS WATER HEATER W/ GAS COCK & 6" DIRT LEG.
- ㊴ 1-1/4" GAS LINE DOWN TO BOILER W/ GAS COCK & 6" DIRT LEG.
- ㊵ (2) 2" BACKFLOW PREVENTERS WATTS #LF009 SERIES. SEE DETAIL 5/P600.
- ㊶ CONTAINMENT/SENSING BASIN FOR BACKFLOW PREVENTERS. SEE DETAIL 12/P600.
- ㊷ 2-1/2" DOMESTIC WATER PRESSURE REDUCING VALVE STATION. SEE DETAIL 6/P600.
- ㊸ 2-1/2" DOMESTIC WATER LINE UP.
- ㊹ NEW GAS METER/SERVICE BY UTILITY COMPANY, SEE GAS LOAD SCHEDULE ON SHEET P102.
- ㊺ 5" GAS PLUG VALVE.
- ㊻ PROVIDE PRESSURE REDUCING VALVE (PASS-THRU, 2" W.C. INLET, 1/4" W.C. OUTLET) AS/7MBH INPUT.
- ㊼ 3" GAS LINE UP ON WALL AND OFFSET TO BUILDING IN CEILING SPACE.
- ㊽ 3" GAS LINE UP TO ROOF.
- ㊾ (2) 2" VENT LINES DOWN IN WALL TO GREASE INTERCEPTOR.
- ㊿ 2" VENT LINES TO GREASE INTERCEPTOR.



NO.	DATE	DESCRIPTION OF REVISION	AUTHORITY	MADE	APPRD
3	07.24.14	BID ADDENDUM #4	OZ	KY	
3	06.25.14	FOR CONSTRUCTION	OZ	KY	
2	04.11.14	50% CONSTRUCTION DOCUMENTS	OZ	KY	
1	01.10.14	100% SCHEMATIC DESIGN / DESIGN DEVELOPMENT	OZ	KY	

**DENVER PUBLIC SCHOOLS**  
DEPARTMENT OF FACILITY MANAGEMENT  
SCHOOL DISTRICT NO. 1 SCHOOL NO. 982 SITE NO. DENVER, CO

**FLORENCE CRITTENTON**  
11326E.00  
ZUNI STREET  
DENVER, COLORADO

DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITY MANAGEMENT  
DESIGNED BY: F.JG  
DRAWN BY: F.JG  
CHECKED BY: TRH  
DATE: June 25, 2014  
SCALE: 1/4" = 1'-0"

**ENLARGED SCALE PLUMBING PLANS**

3003 Larimer Street  
Denver, CO 80205  
phone 303.861.5704  
www.ozarch.com

DWG NO. **P-300**  
SHEET: ???  
DATE:



PLUMBING FIXTURE SCHEDULE									
PLAN CODE	DESCRIPTION	MANUF.	MODEL	COLOR FINISH	FITTINGS	MANUF.	MODEL	COLOR FINISH	REMARKS
WC-1	WATER CLOSET - ACCESSIBLE - 17"	KOHLER	K-4325	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95CC ECOS-8111-1.28	WHITE CHROME	NOTES: 1,2
WC-2	WATER CLOSET - 15" (WALL HUNG)	KOHLER	K-4325	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95CC ECOS-8111-1.28	WHITE CHROME	NOTE: 1
WC-3	WATER CLOSET - ACCESSIBLE - 17" (FLOOR MOUNTED) TANK TYPE	KOHLER	K-4405	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95CC ECOS-8111-1.28	WHITE CHROME	NOTE: 2
WC-4	WATER CLOSET - PRIMARY - 10" (FLOOR MOUNTED) TANK TYPE	AMERICAN STANDARD	2315.228	WHITE	SEAT FLUSH VALVE	AMERICAN STANDARD	50" TOILET	WHITE CHROME	
WC-5	WATER CLOSET - ACCESSIBLE - 17" (FLOOR MOUNTED) TANK TYPE	KOHLER	K-5067	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95CC ECOS-8111-1.28	WHITE CHROME	
WC-6	WATER CLOSET - 15" (FLOOR MOUNTED) TANK TYPE	KOHLER	K-3996	WHITE	SEAT FLUSH VALVE	KOHLER	95CC	WHITE	
UR-1	URINAL (ACCESSIBLE)	KOHLER	K-5016	WHITE	FLUSH VALVE	SLOAN	8186-0.25	CHROME	NOTES: 1,2,4
UR-2	URINAL	KOHLER	K-5016	WHITE	FLUSH VALVE	TOTO	TMU1LN12#CP	CHROME	NOTES: 1,3
L-1	LAVATORY-WALL HUNG (ACCESSIBLE)	KOHLER	K-1721	WHITE	FAUCET	SLOAN	EFX-250-500-0010	CHROME	NOTES: 2,5,6,7, 8,9,14
L-2	LAVATORY-WALL HUNG (ACCESSIBLE)	KOHLER	K-1721	WHITE	FAUCET	CHICAGO	895-317-CP	CHROME	NOTES: 5,6,7, 8,9,14
S-1	SINK - (CLASSROOM 25")	ELKAY	DRKAD2217	STAINLESS STEEL	FAUCET	CHICAGO	50-E35ABCP	CHROME	NOTES: 5,9,10, 14
S-2	SINK - (CLASSROOM 36")	ELKAY	DRKAD2217	STAINLESS STEEL	FAUCET	CHICAGO	50-E35ABCP	CHROME	NOTES: 5,9,10, 14
S-3	SINK (SCIENCE)	ELKAY	DRKAD2217	316 STAINLESS STEEL	FAUCET	CHICAGO	930VR-369CP-GN2BWBKCP-E7JKCP	CHROME	NOTES: 5,10, 14,18
S-4	SINK (SINGLE COMP.)	ELKAY	LRAD1919	STAINLESS STEEL	FAUCET	CHICAGO	786-317-CP	CHROME	NOTES: 5,9,10, 14
S-5	SINK (SINGLE COMP.)	ELKAY	LRAD2521	STAINLESS STEEL	FAUCET	CHICAGO	786-317-CP	CHROME	NOTES: 5,9,10, 14
S-6	SINK (DOUBLE COMP.)	ELKAY	LRAD3321	STAINLESS STEEL	FAUCET	CHICAGO	786-317-CP	CHROME	NOTES: 5,9,10, 14
S-7	SINK (ART)	ELKAY	WNSF8245LR	STAINLESS STEEL	FAUCET	CHICAGO	540-LDL9ABCP	CHROME	NOTES: 5,9,10, 14
HS-1	SINK (ACCESSIBLE)	KOHLER	K-2005	WHITE	FAUCET	CHICAGO	895-317-CP	CHROME	NOTES: 5,9,10, 14
MSB-1	MOP SERVICE BASIN	FIAT	MSB3636	WHITE	FAUCET	CHICAGO	445-RC8975XKCP	CHROME	NOTE: 11
MSB-2	MOP SERVICE BASIN	FIAT	MSB3624	WHITE	FAUCET	CHICAGO	445-RC8975XKCP	CHROME	NOTE: 11
EWC-1	ELECTRIC WATER COOLER	HAWES	H1109.8	STAINLESS STEEL					NOTES: 1,12
EWC-2	ELECTRIC WATER COOLER	HAWES	H1109.8	STAINLESS STEEL					NOTES: 1,12
SH-1	SHOWER	FIAT	36MFT	WHITE	VALVE HEAD	POWERS	E425-D-1-W	CHROME	NOTES: 15,17
ES/EW-1	EMERGENCY SHOWER/EYEWASH	HAWES	8317						
EEW-2	EMERGENCY EYEWASH	HAWES	7612						NOTE: 13
GDU-1	GARBAGE DISPOSAL UNIT	IN-SINK-ERATOR	BADGERS						NOTE: 16

- NOTES:
- CARRIER, COORD. WALL THICKNESS W/ ARCH. PLANS
  - BATTERY OPERATED FLUSH VALVE/FAUCET
  - MOUNTED @ 24" AFF
  - MOUNTED @ 17" AFF
  - C.P. ANGLE SUPPLIES W/ L.K. STOPS, 17 GA. P-TRAP
  - GRID STRAINER, .50 GPM FLOW RESTRICTOR
  - INSULATION KIT
  - CONCEALED ARM CARRIER
  - GRID STRAINER
  - 1.5 GPM FLOW RESTRICTOR
  - VACUUM BREAKER, CHECK STOPS
  - 120V/1PH/60HZ 1/3 H.P.
  - PROVIDE HAWS TWBS/EWE THERMOSTATIC MIXING VALVE
  - LEAD-FREE FIXTURE.
  - 24" ADA BAR W/HAND HELD HEAD.
  - 120V/1PH/60HZ 3/4 H.P.
  - WITH 2" TD=1.
  - 316 STAINLESS STEEL DRAIN/STRAINER

WATER HEATER SCHEDULE (GAS-FIRED)								
PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE GALLONS	G.P.H. RECOVERY @ 100' RISE	BTUH INPUT @ SEA LEVEL	EFF. FACTOR	FLUE SIZE	OPER. WEIGHT LBS	REMARKS
GWH-1	PVI CONQUEST 60-L-130A-GCML	130.0	691.0	600,000.0	0.97	6"	1,307 LBS	NOTES:1,2,3,4

- NOTES:
- TANK TYPE GAS WATER HEATER
  - SET TO 140°F OUTPUT WATER TEMP.
  - 120V/1PH/60HZ 20AMP.
  - PROVIDE CONDENSATE NEUTRALIZATION KIT PER MFG REQUIREMENTS

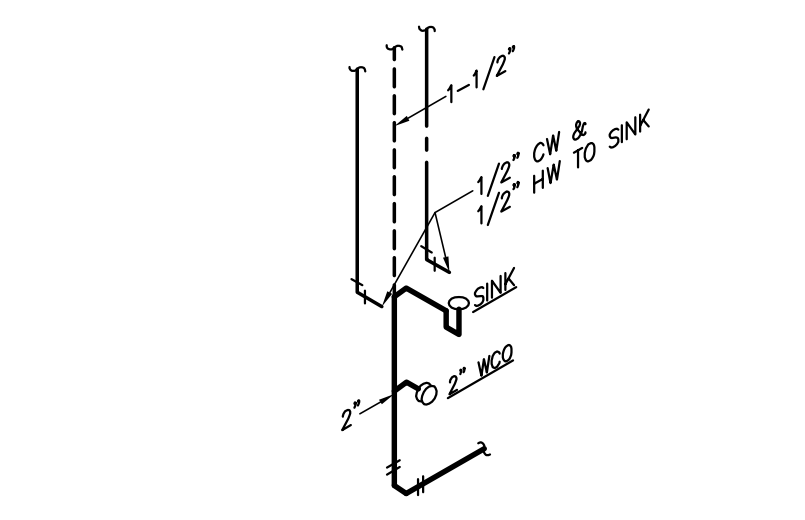
MISCELLANEOUS PLUMBING FIXTURE					
PLAN CODE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	REMARKS
PET-1	PLUMBING EXPANSION TANK	AMTROL	ST-30V-C	STEEL	NOTE: 1
TMV-1	THERMOSTATIC MIXING VALVE	BRADLEY	S59-4000	ROUGH BRASS	NOTE: 2,5,7
TMV-2	THERMOSTATIC MIXING VALVE	BRADLEY	S59-4016	ROUGH BRASS	NOTE: 2,5,7
TMV-3	THERMOSTATIC MIXING VALVE	BRADLEY	HL130	ROUGH BRASS	NOTE: 4,6,7
TMV-4	THERMOSTATIC MIXING VALVE	POWERS	SI9-2100	ROUGH BRASS	NOTE: 7,8
SI-1	SOLID INTERCEPTOR	WATTS	SI-742	CAST IRON	NOTE: 3
BT-1	BOTTLE TRAP (ACID DILUTION)	ORION	BT-1 (2QT.)	POLYPROPYLENE	

- NOTES:
- ASME CONSTRUCTION
  - ASSE 1070
  - LOCATE OFF TO THE SIDE OF SINK W/ SERVICE CLEARANCE
  - 4.40 GPM @ 12 PSI LOSS
  - SET AT 110°F
  - SET AT 120°F
  - LEAD-FREE
  - SET AT 80°F

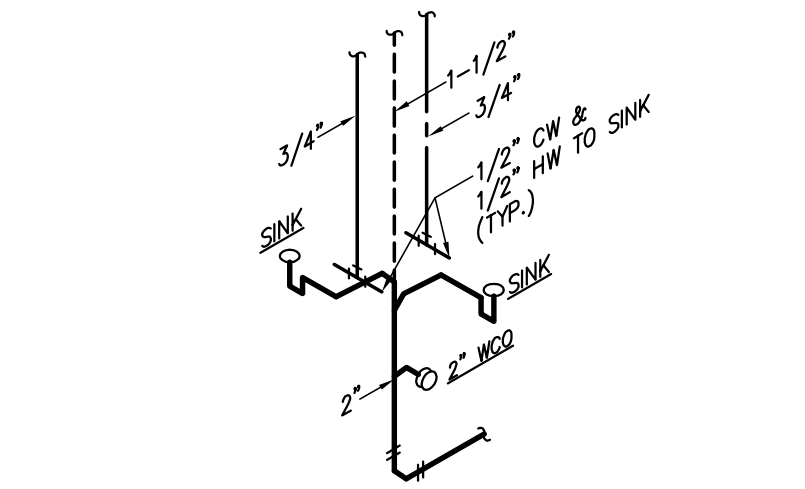
PLUMBING FIXTURE CONNECTION SCHEDULE								
PLAN CODE	FIXTURE	PIPE SIZE (INCHES, MINIMUM)						REMARKS
		WASTE		COLD WATER		HOT WATER		
		TRAP & ARM	VERT. DRAIN	VENT (MIN.)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	SUPPLY (MIN.)	
WC	WATER CLOSET	INT.	4"	2"	1"	1"	-	
U	URINAL	INT.	2"	1-1/2"	3/4"	3/4"	-	
L	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	3/8"	1/2"	3/8"
S	SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"
SH	SHOWER	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"
EWC/DF	ELEC. WATER COOLER/DRINKING FOUNT.	1-1/2"	2"	1-1/2"	1/2"	3/8"	-	-
WH/HB	WALL HYDRANT	-	-	-	3/4"	3/4"	-	-
ES/EW	EMERGENCY SHOWER/ EYEWASH	-	-	-	1-1/4"	-	1-1/4"	-
MSB	MOP SERVICE BASIN	3"	3"	1-1/2"	1/2"	1/2"	1/2"	1/2"

PUMP SCHEDULE															
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	HEAD	% EFF.	ELECTRICAL				VIBRATION ISOLATION	CONTROL	WEIGHT (LBS)	REMARKS
								HP (BHP)	VOLTS	Ø	RPM				
PP-1	B&G PL-36B	IN-LINE	120°F	-	5.0	30'	-	2/5	115	1	-	INTEGRAL	DDC	-	NOTE: 1

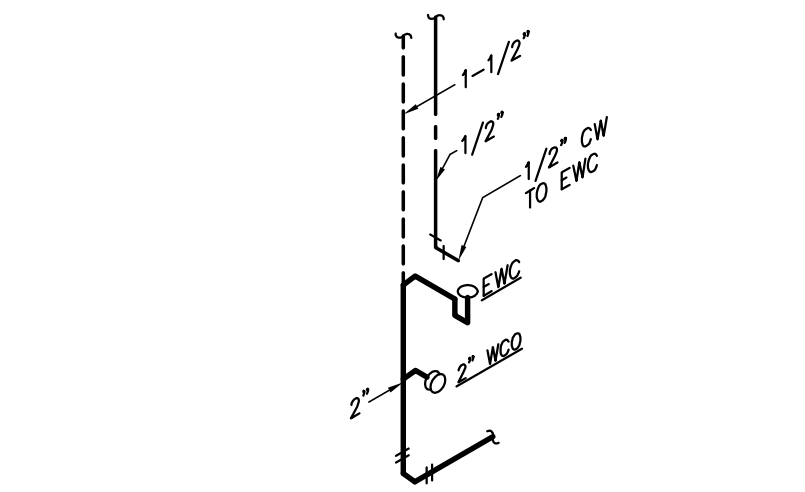
- NOTES:
- DDC, OCCUPIED/UNOCCUPIED



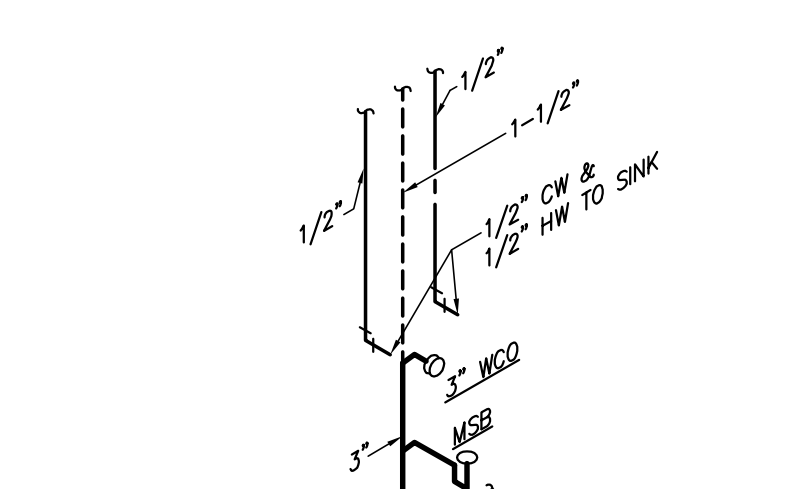
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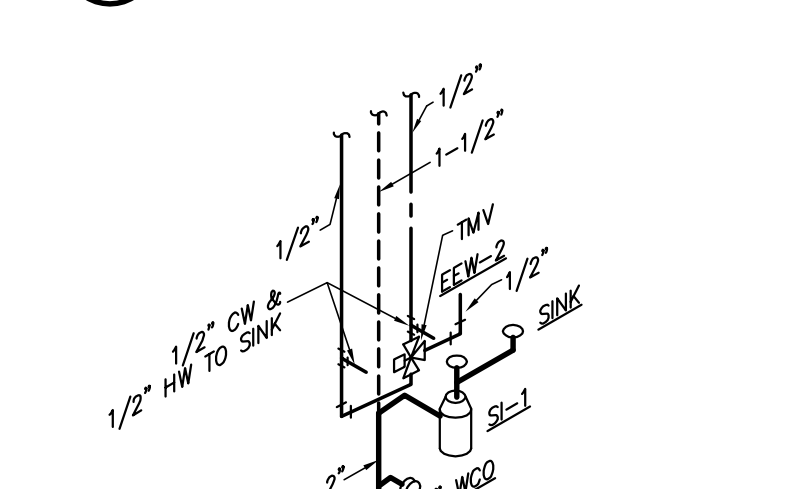
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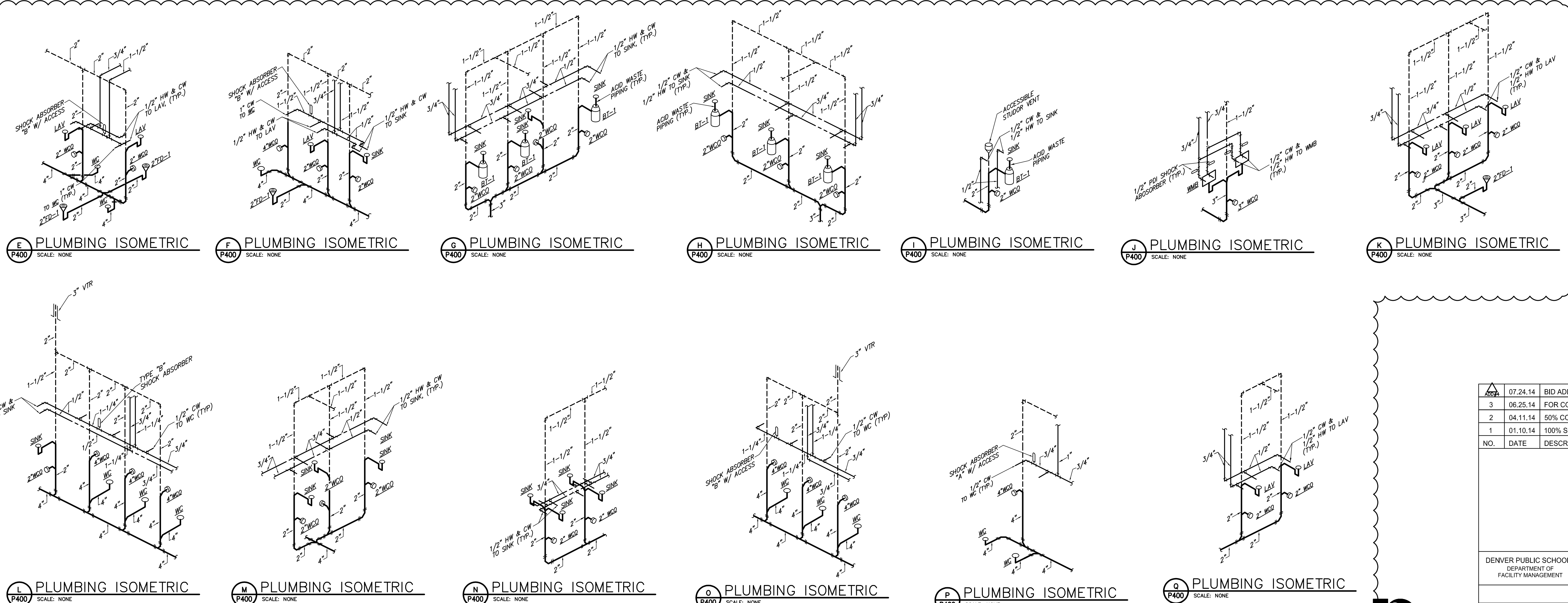
C PLUMBING ISOMETRIC SCALE: NONE



D PLUMBING ISOMETRIC SCALE: NONE



E PLUMBING ISOMETRIC SCALE: NONE



F PLUMBING ISOMETRIC SCALE: NONE

G PLUMBING ISOMETRIC SCALE: NONE

H PLUMBING ISOMETRIC SCALE: NONE

I PLUMBING ISOMETRIC SCALE: NONE

J PLUMBING ISOMETRIC SCALE: NONE

K PLUMBING ISOMETRIC SCALE: NONE

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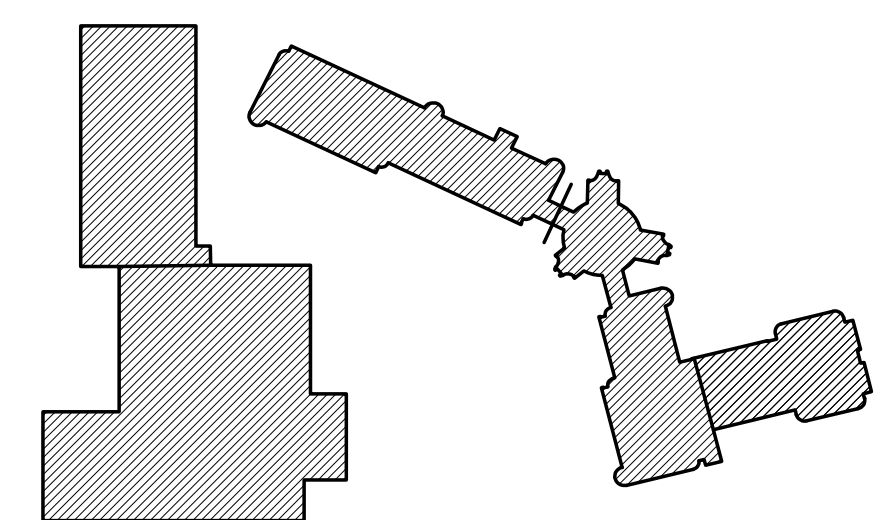
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P PLUMBING ISOMETRIC SCALE: NONE

Q PLUMBING ISOMETRIC SCALE: NONE

ADD#4

R PLUMBING ISOMETRIC SCALE: NONE



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**DENVER PUBLIC SCHOOLS**  
DEPARTMENT OF FACILITY MANAGEMENT  
SCHOOL DISTRICT NO. 1 SCHOOL NO. 982 SITE NO. DENVER, CO

**FLORENCE CRITTENTON**  
113266.00  
ZUNI STREET  
DENVER, COLORADO

**PLUMBING SCHEDULES**

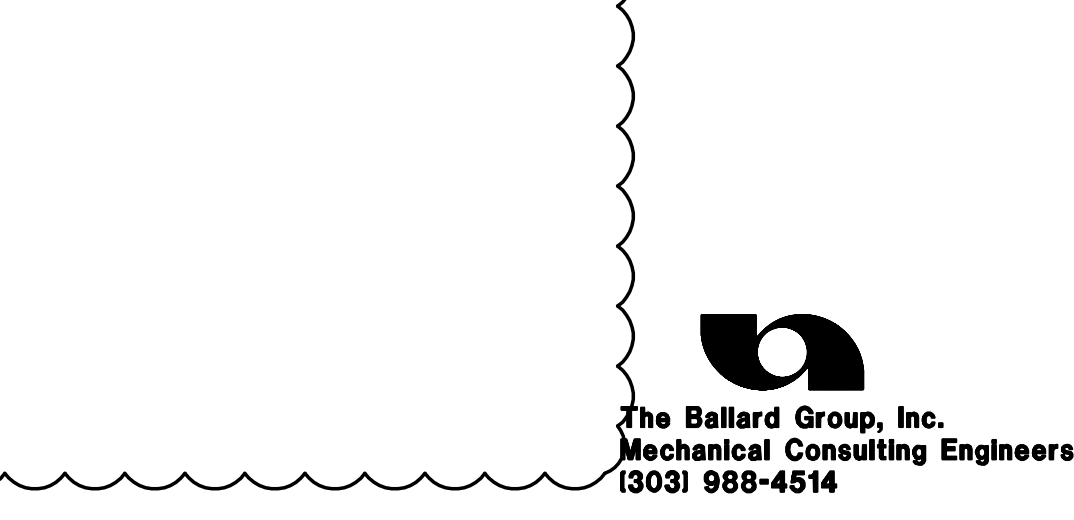
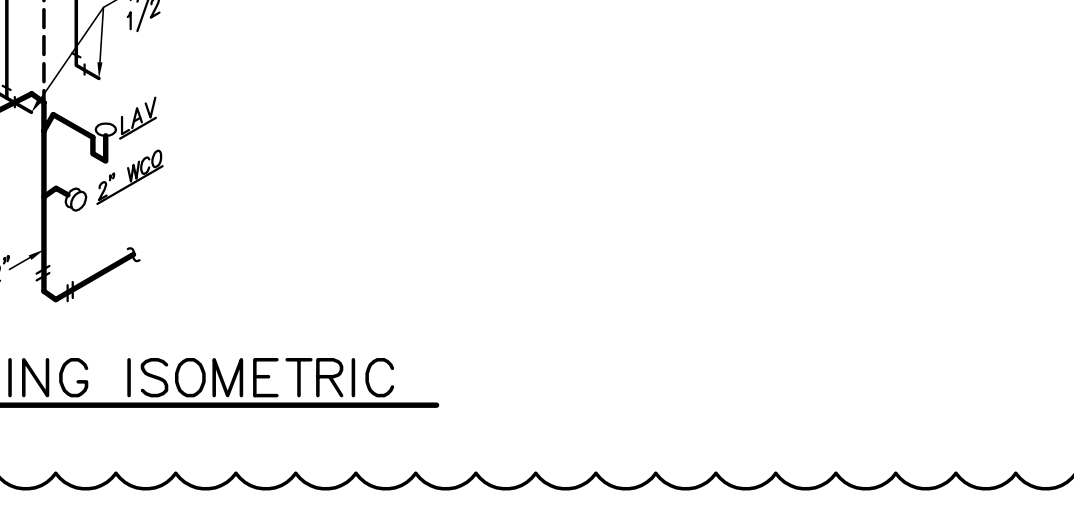
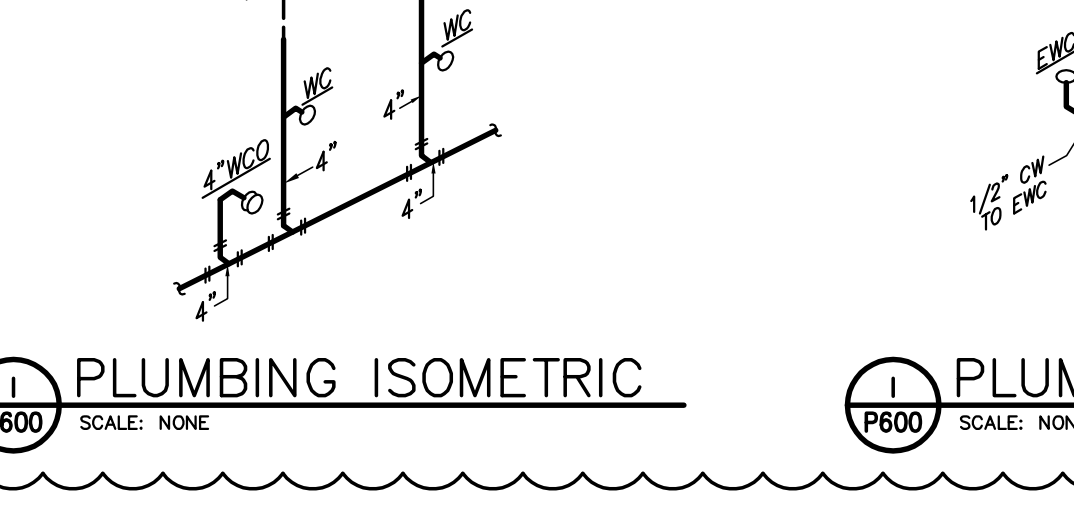
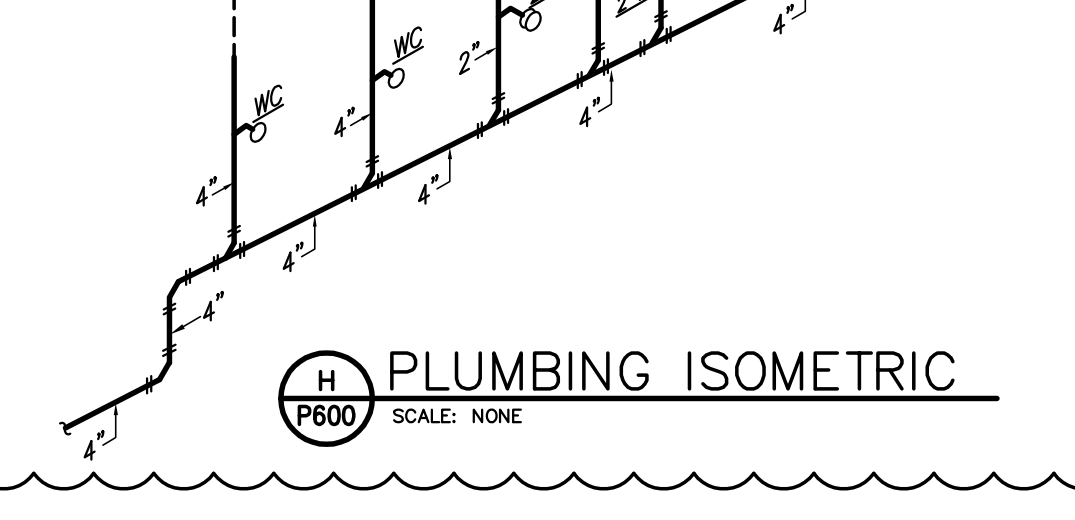
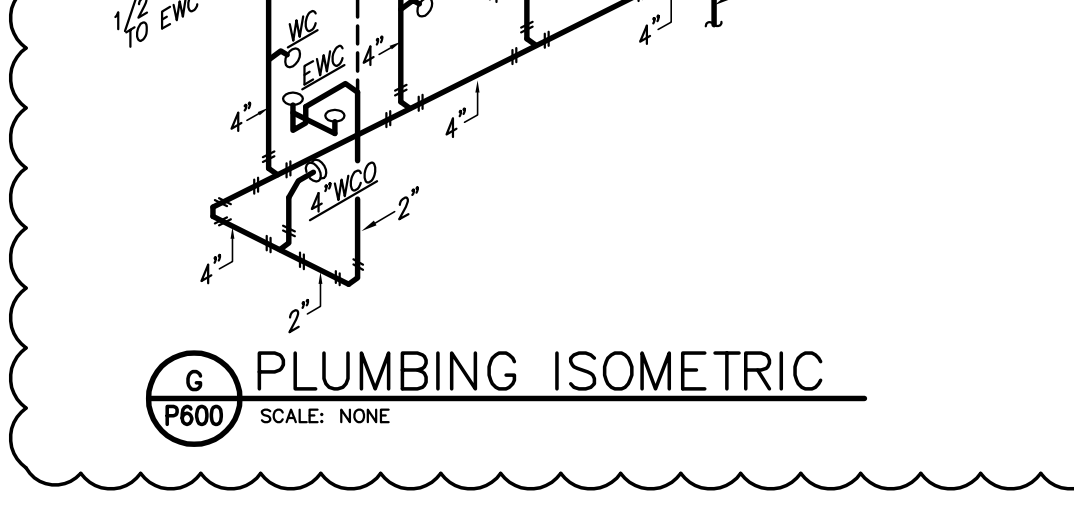
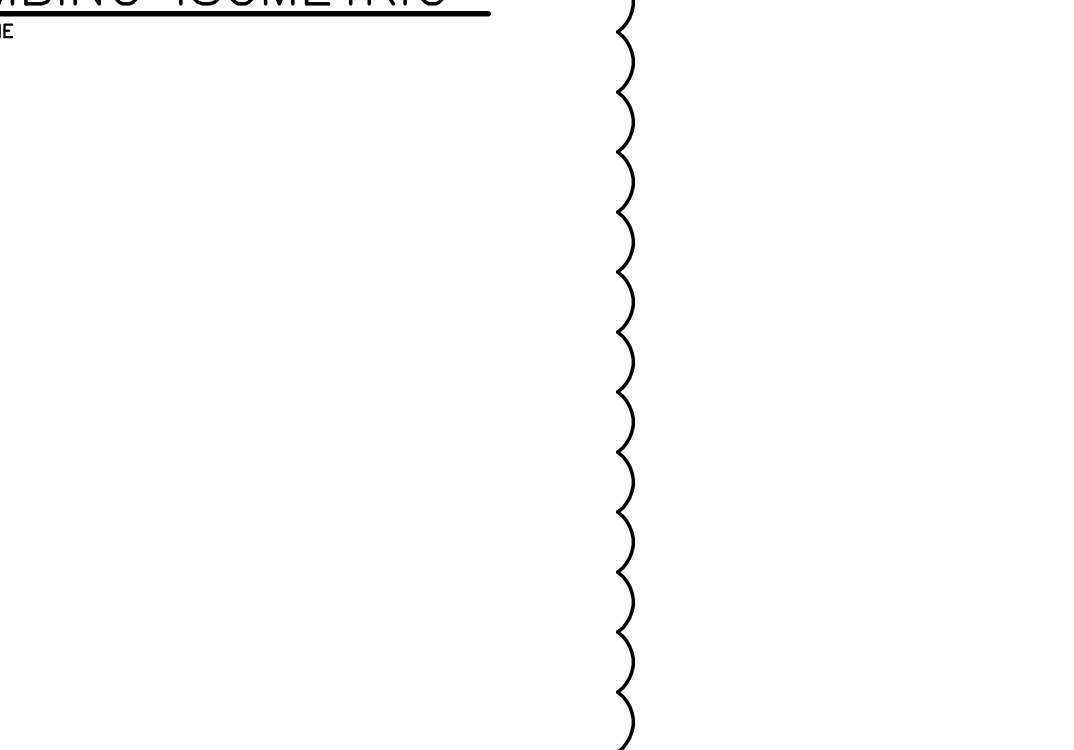
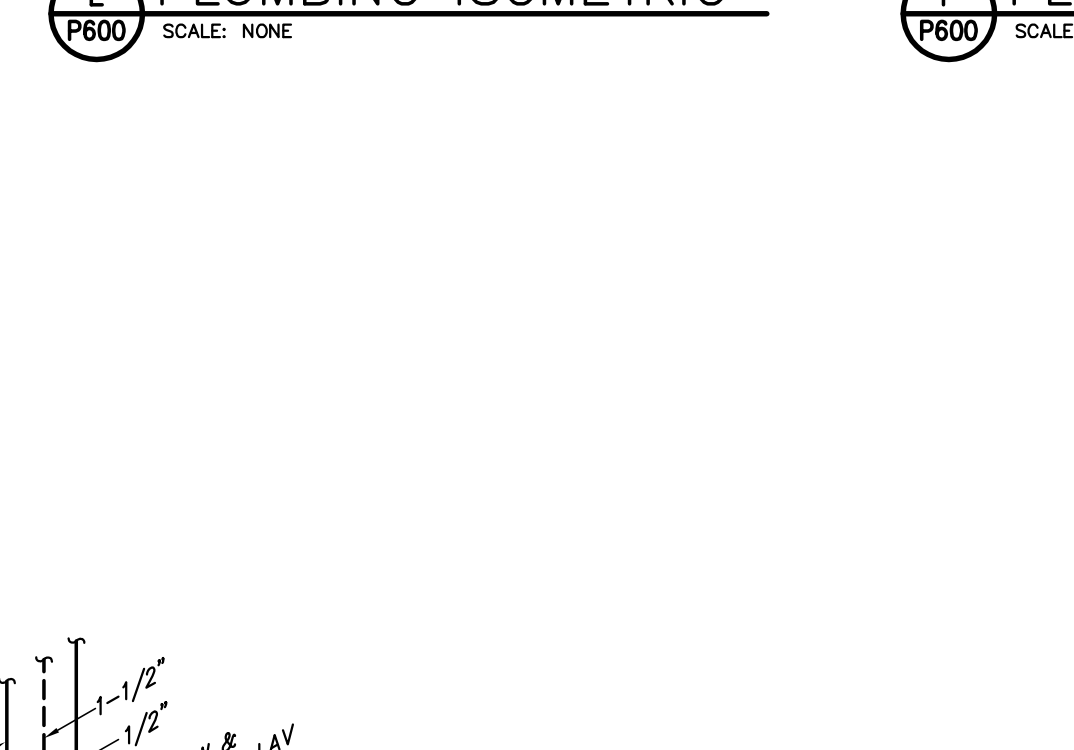
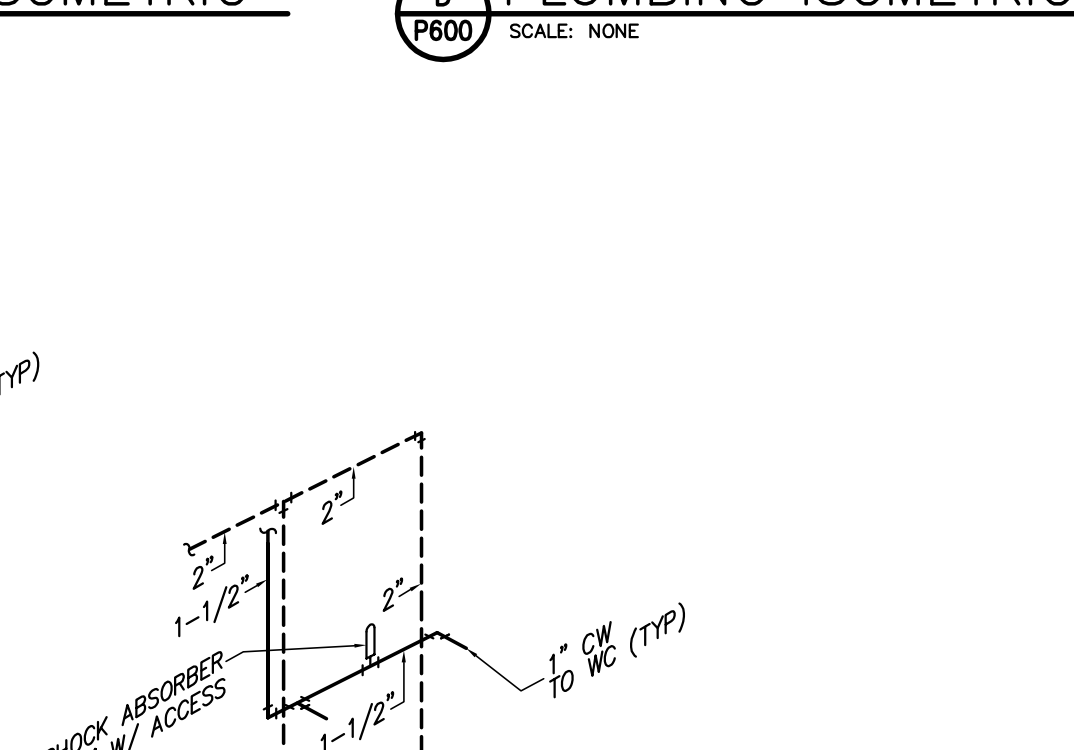
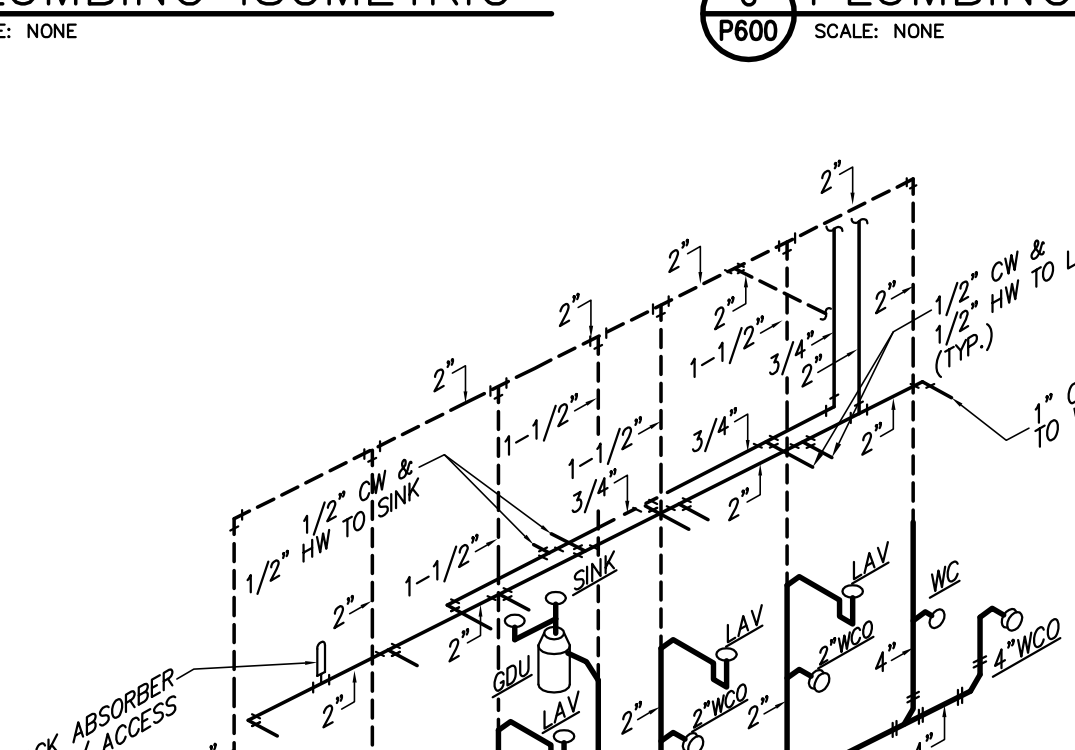
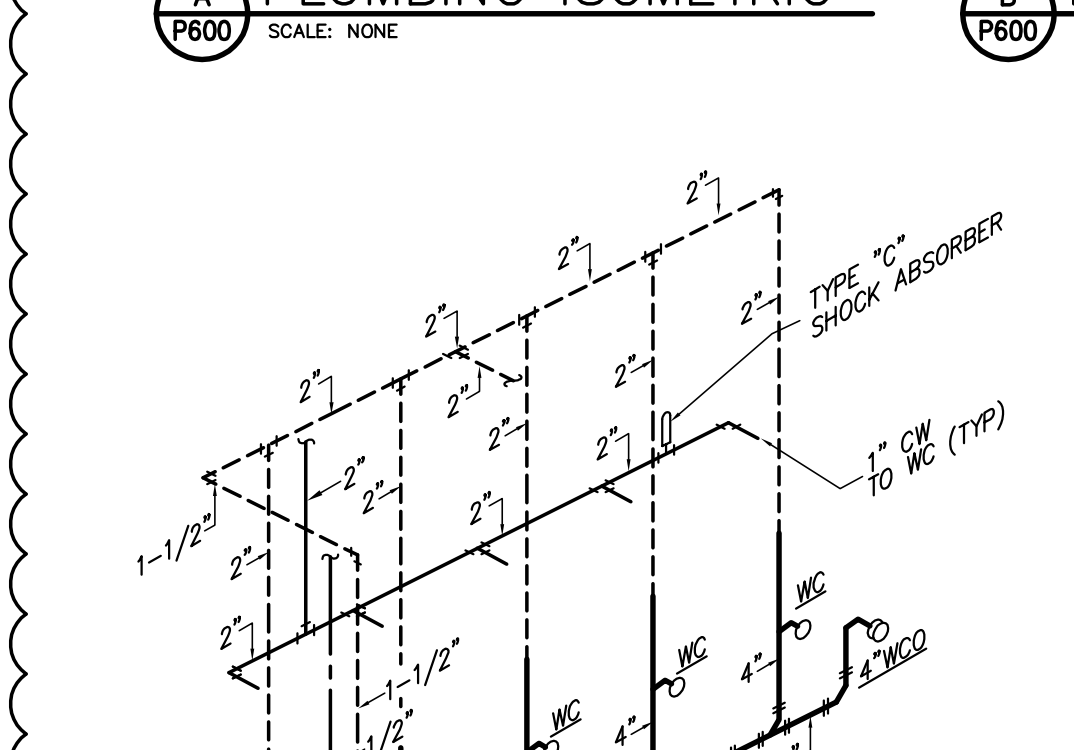
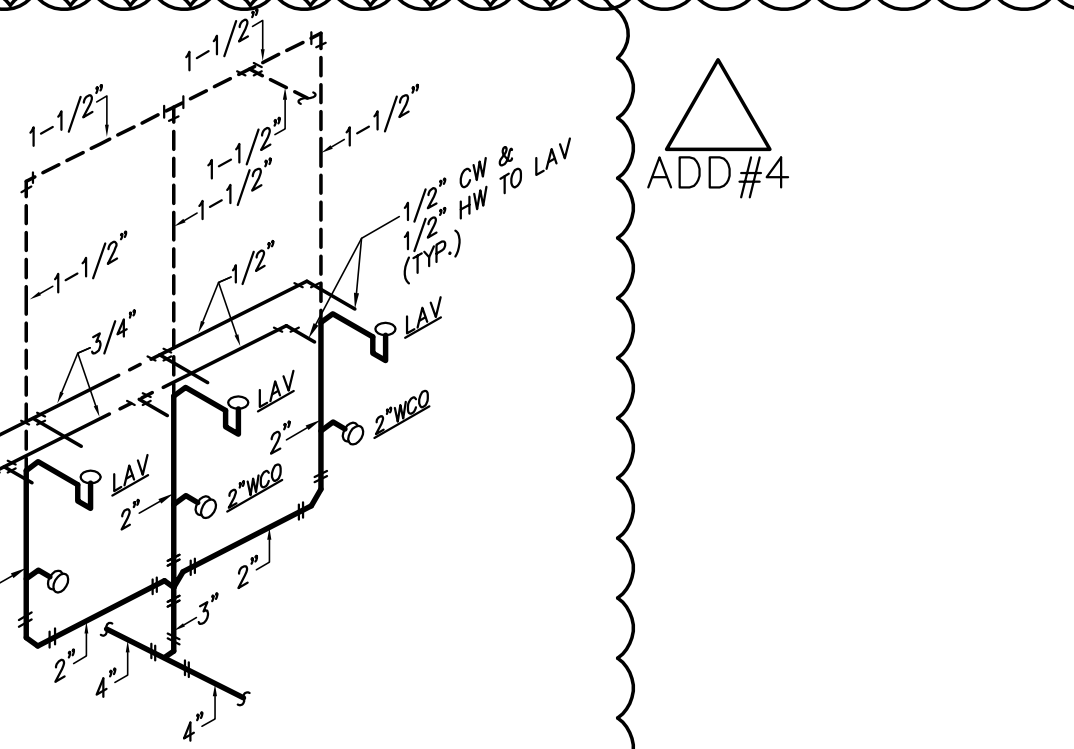
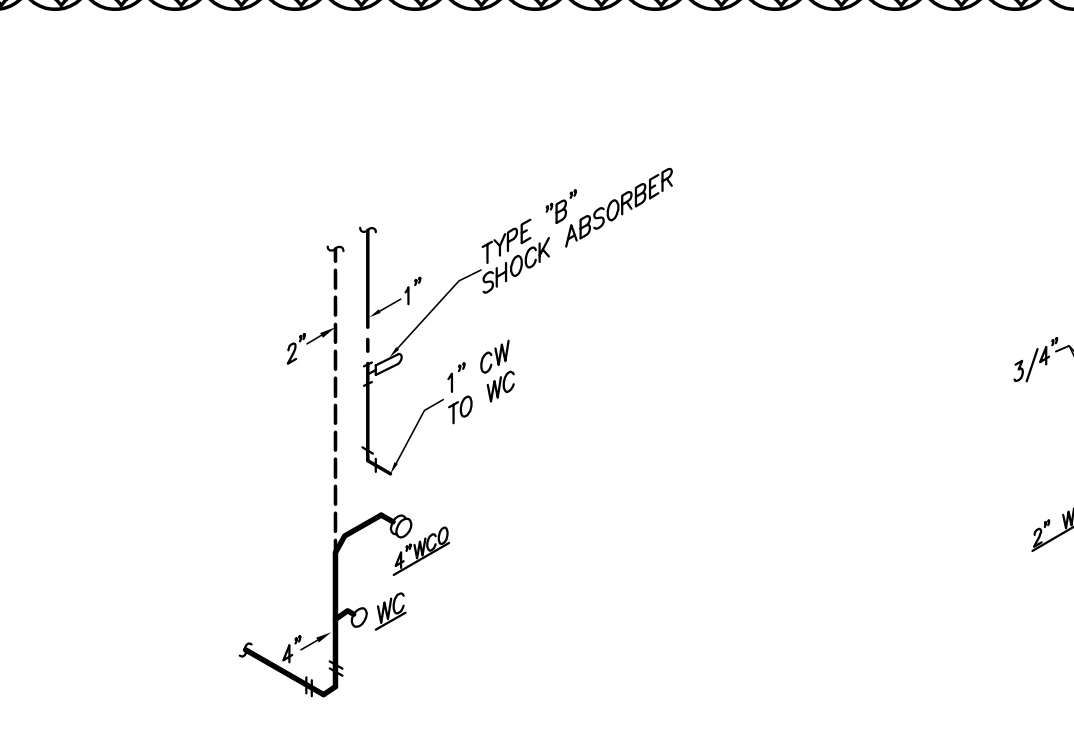
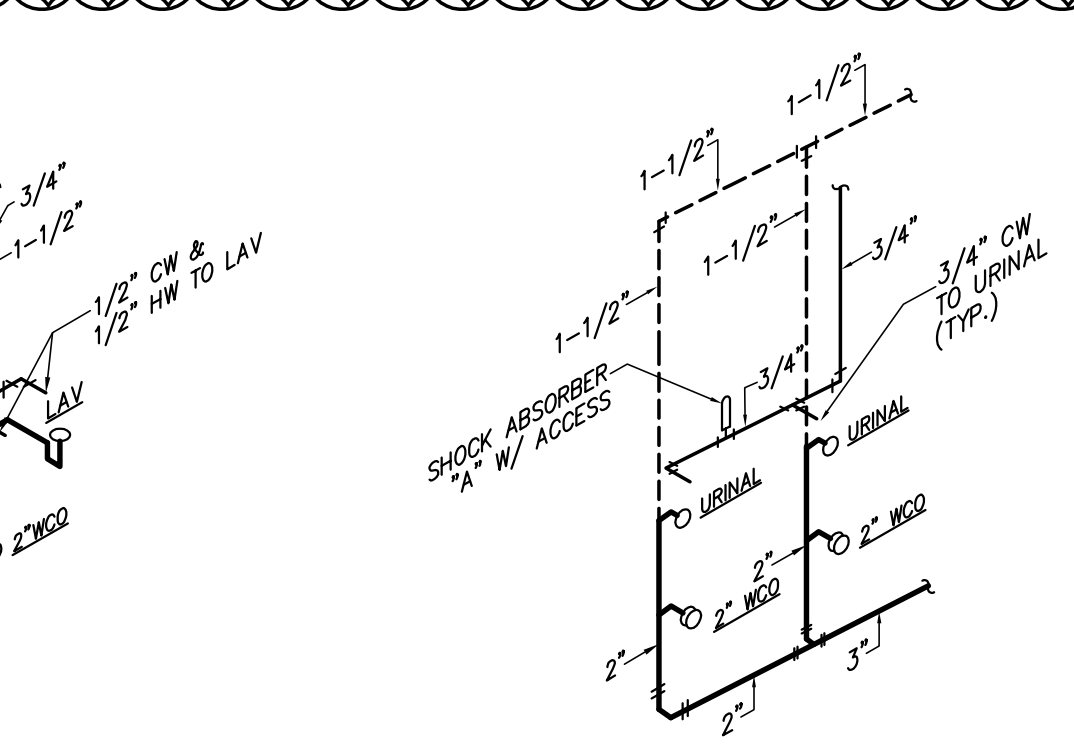
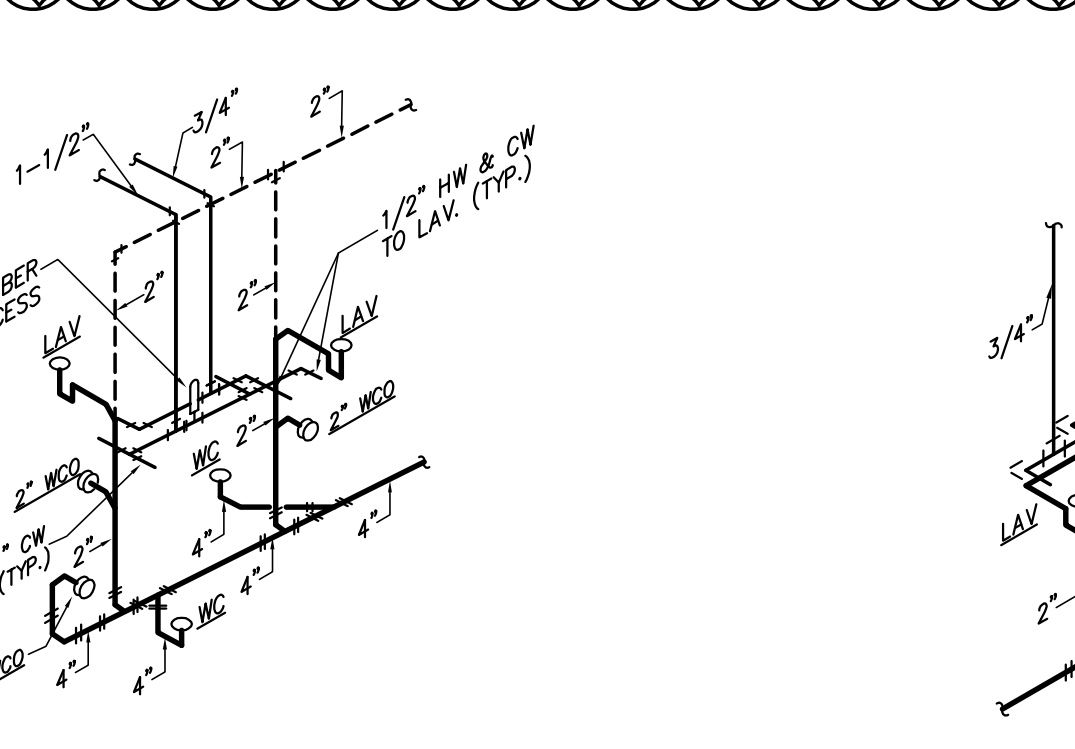
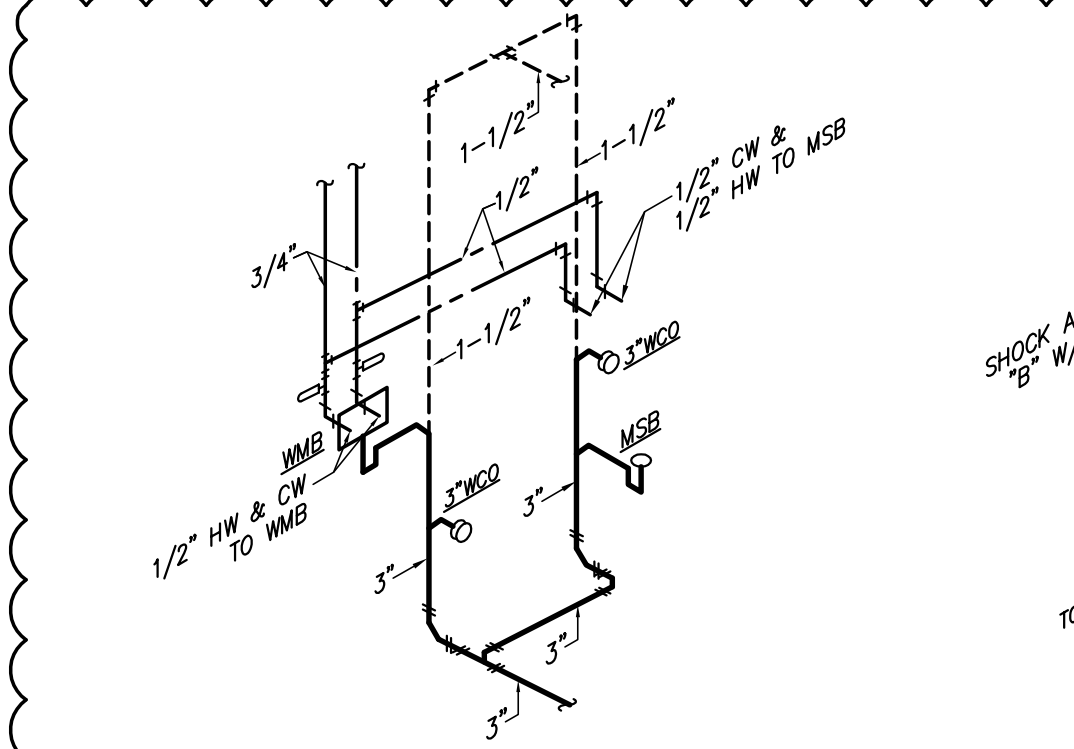
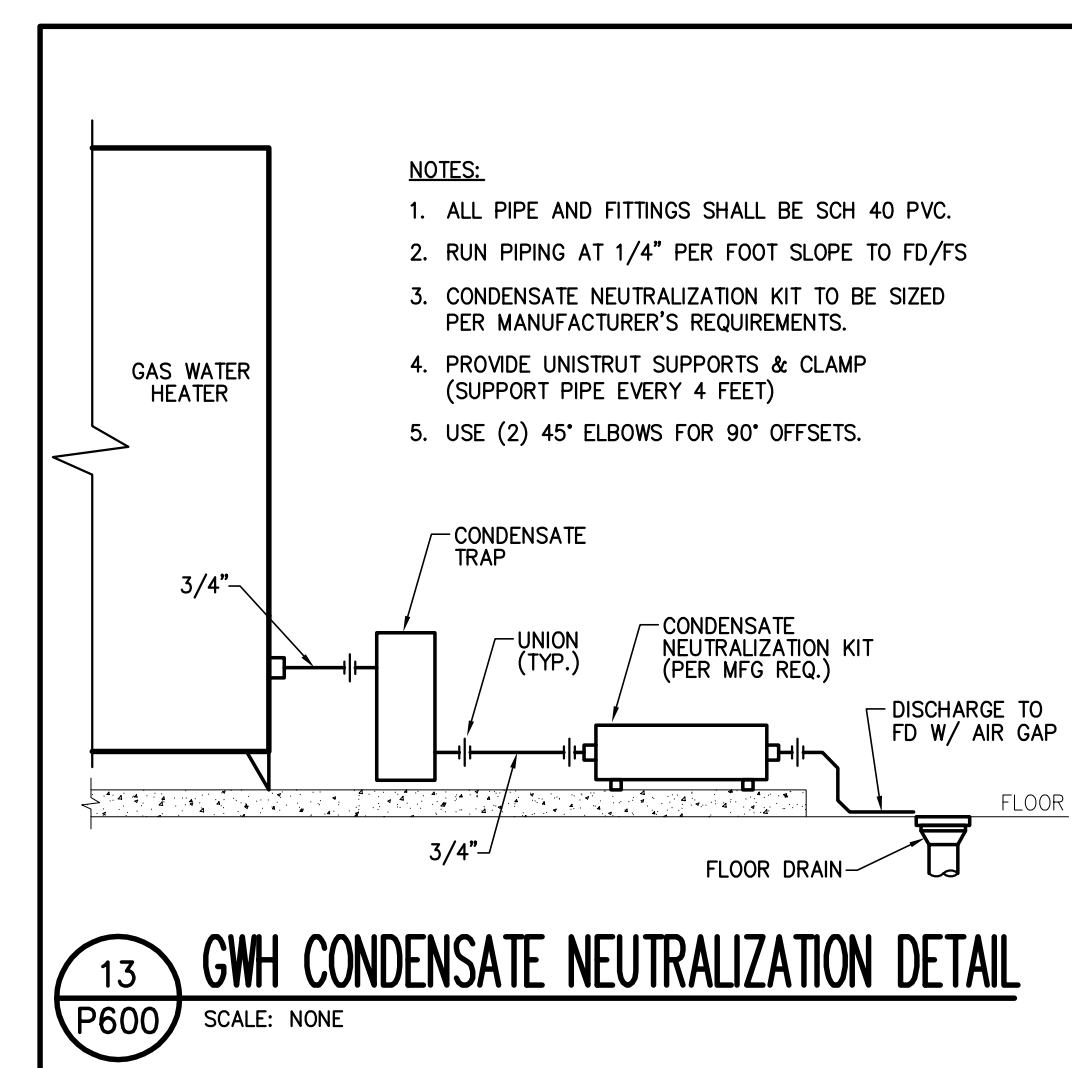
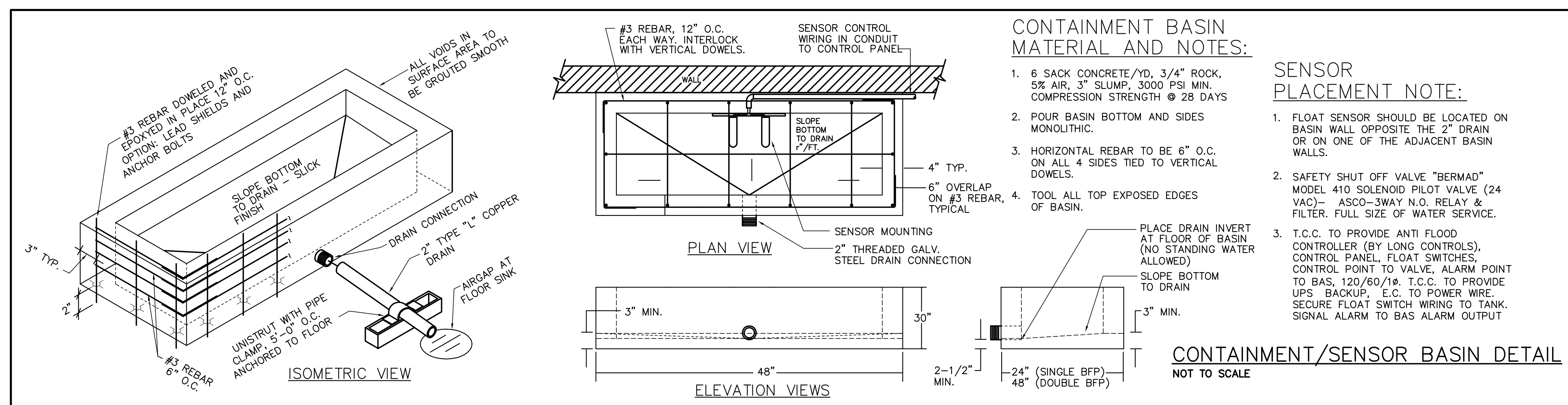
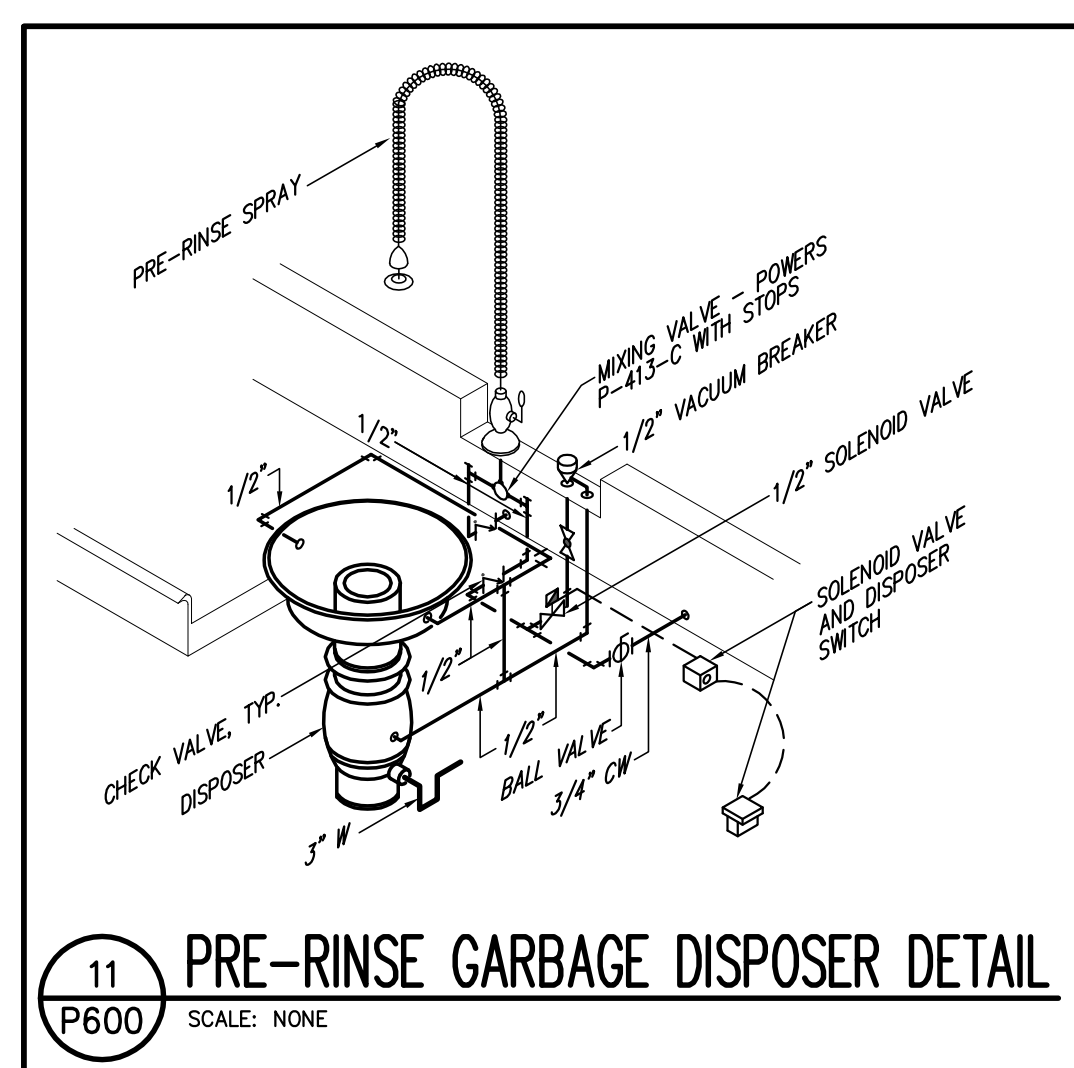
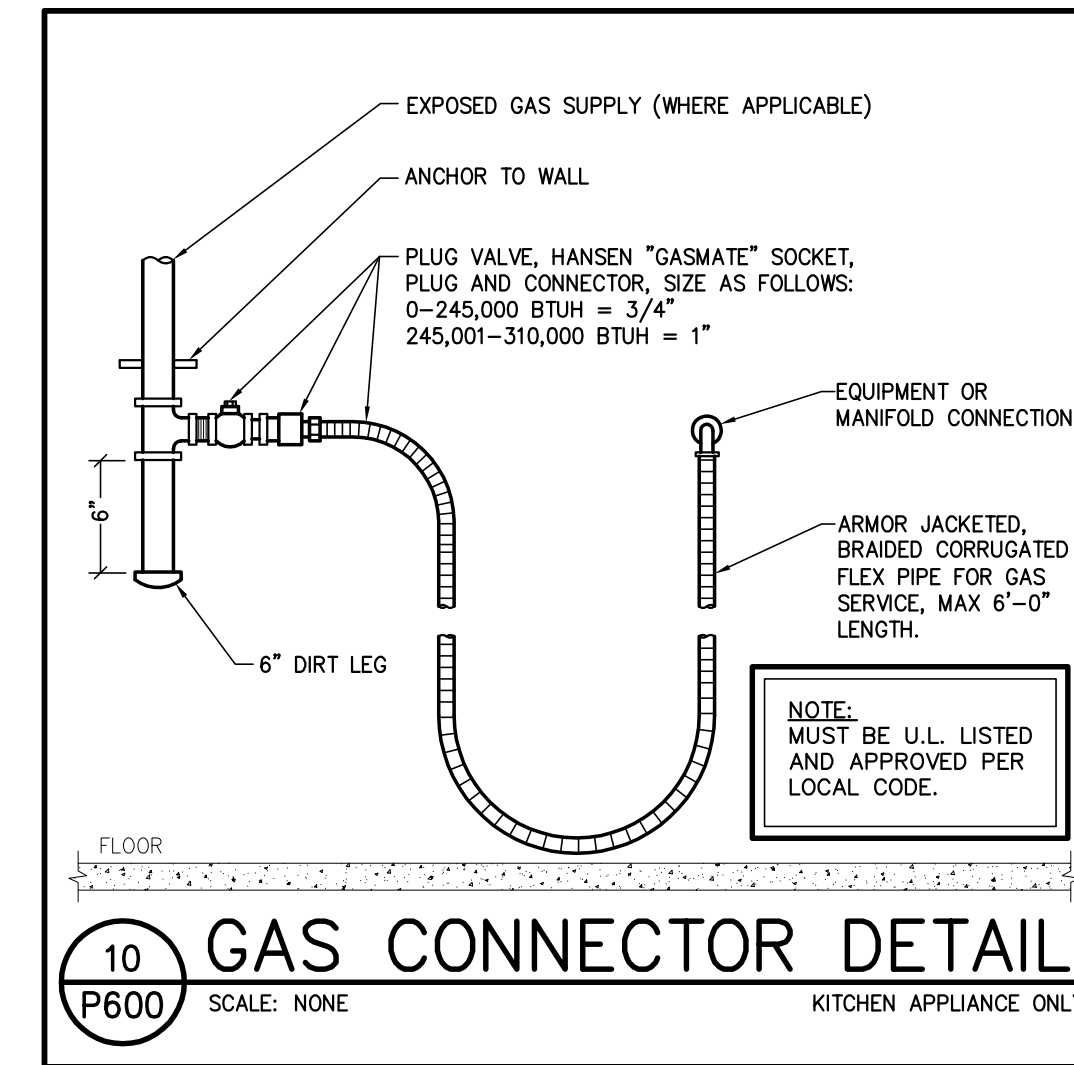
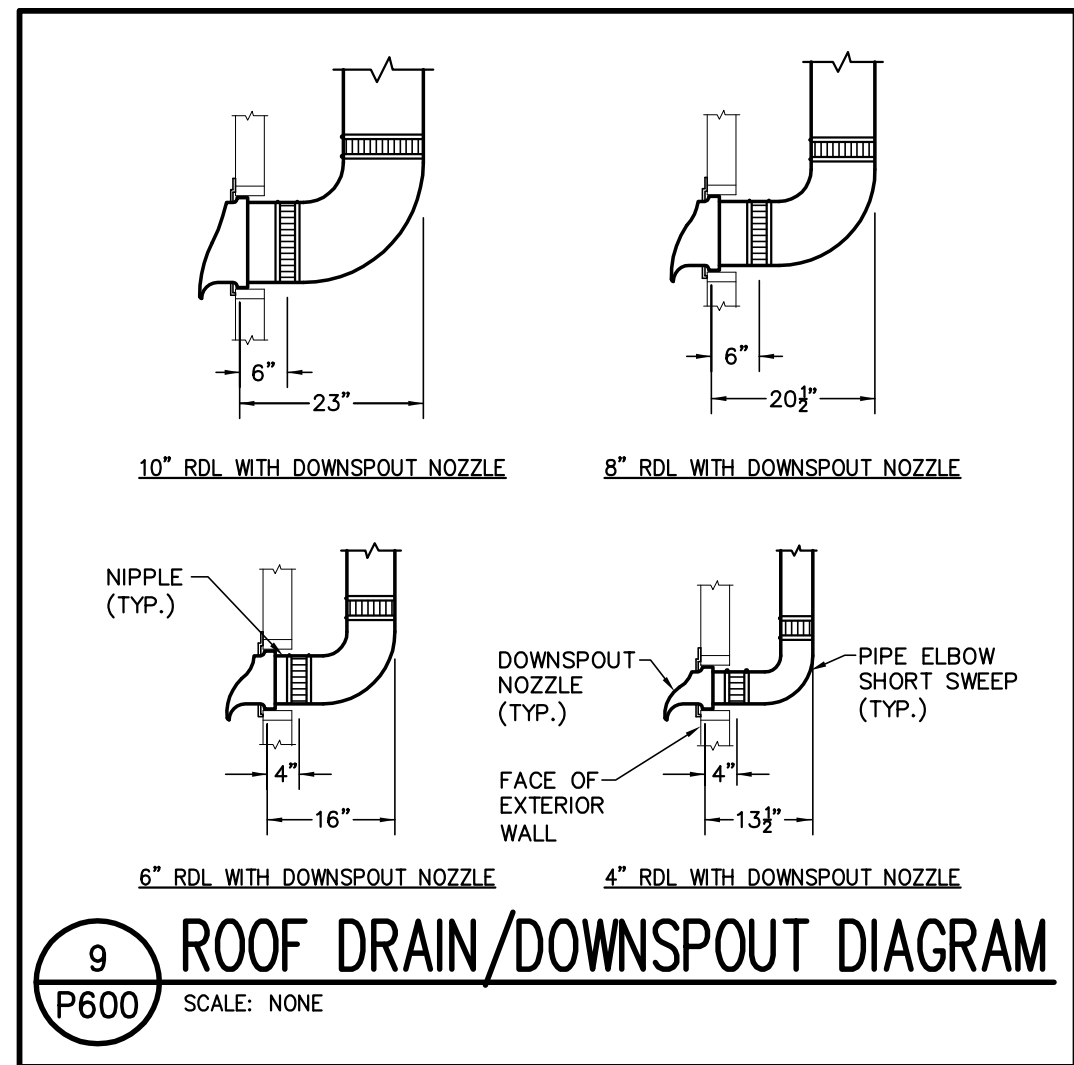
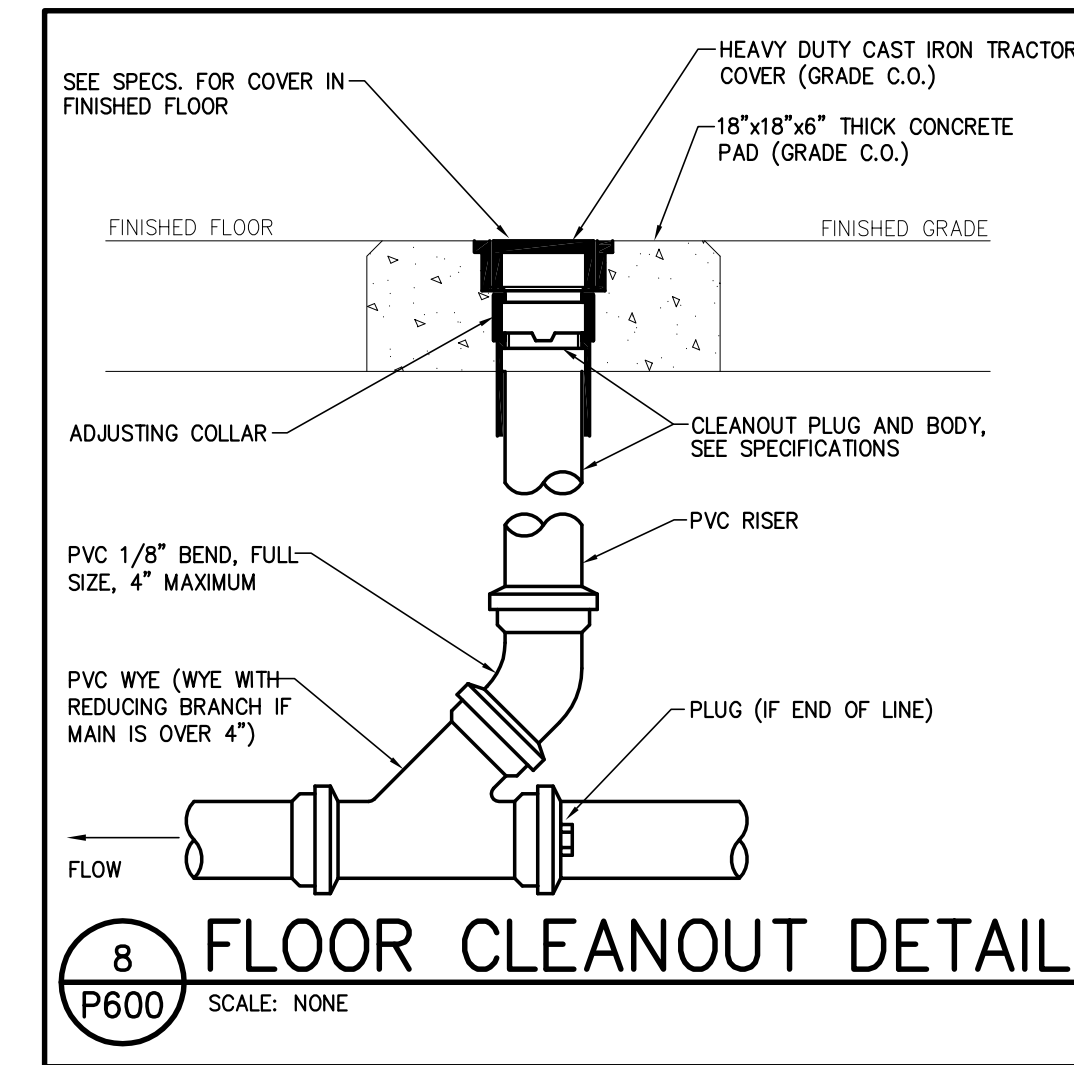
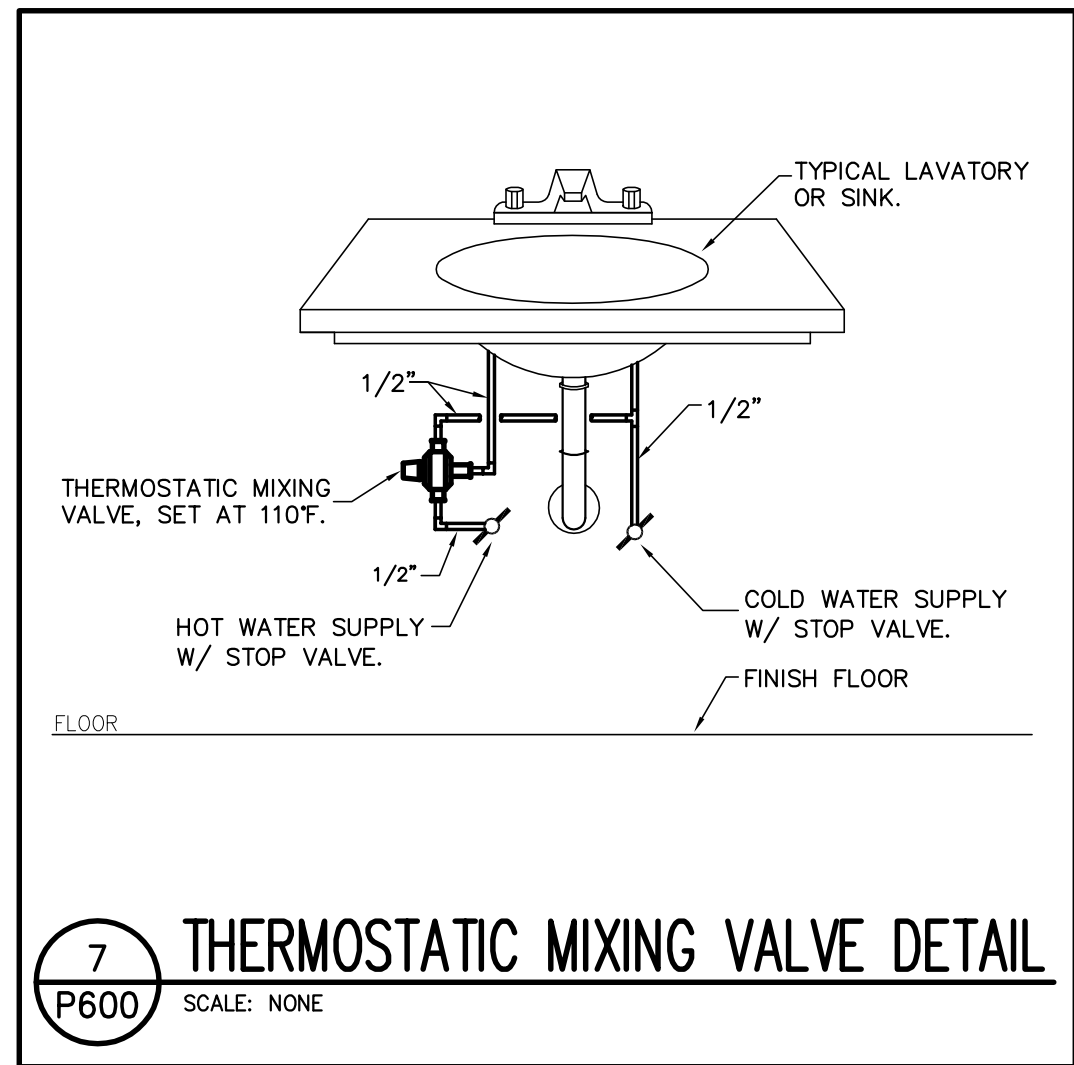
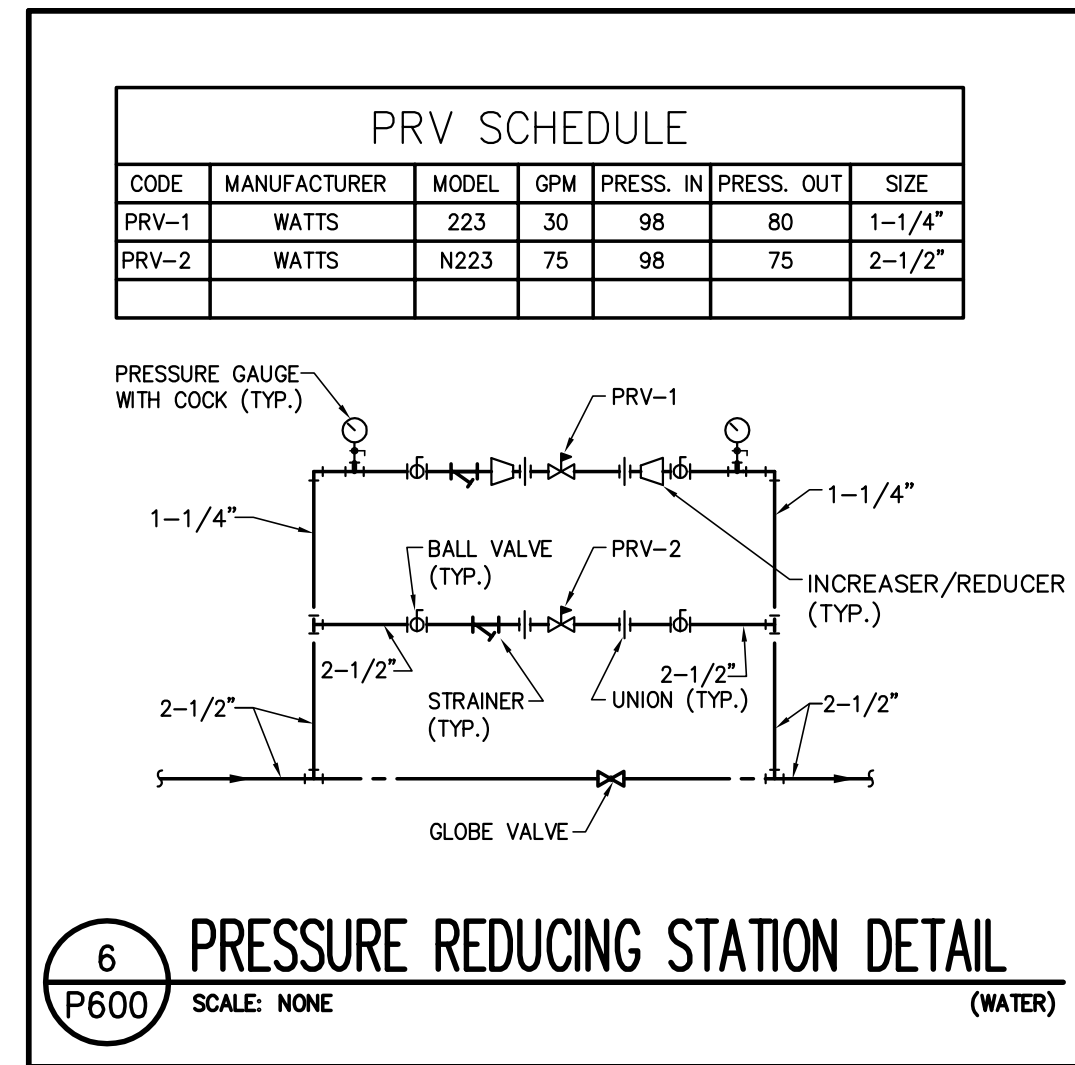
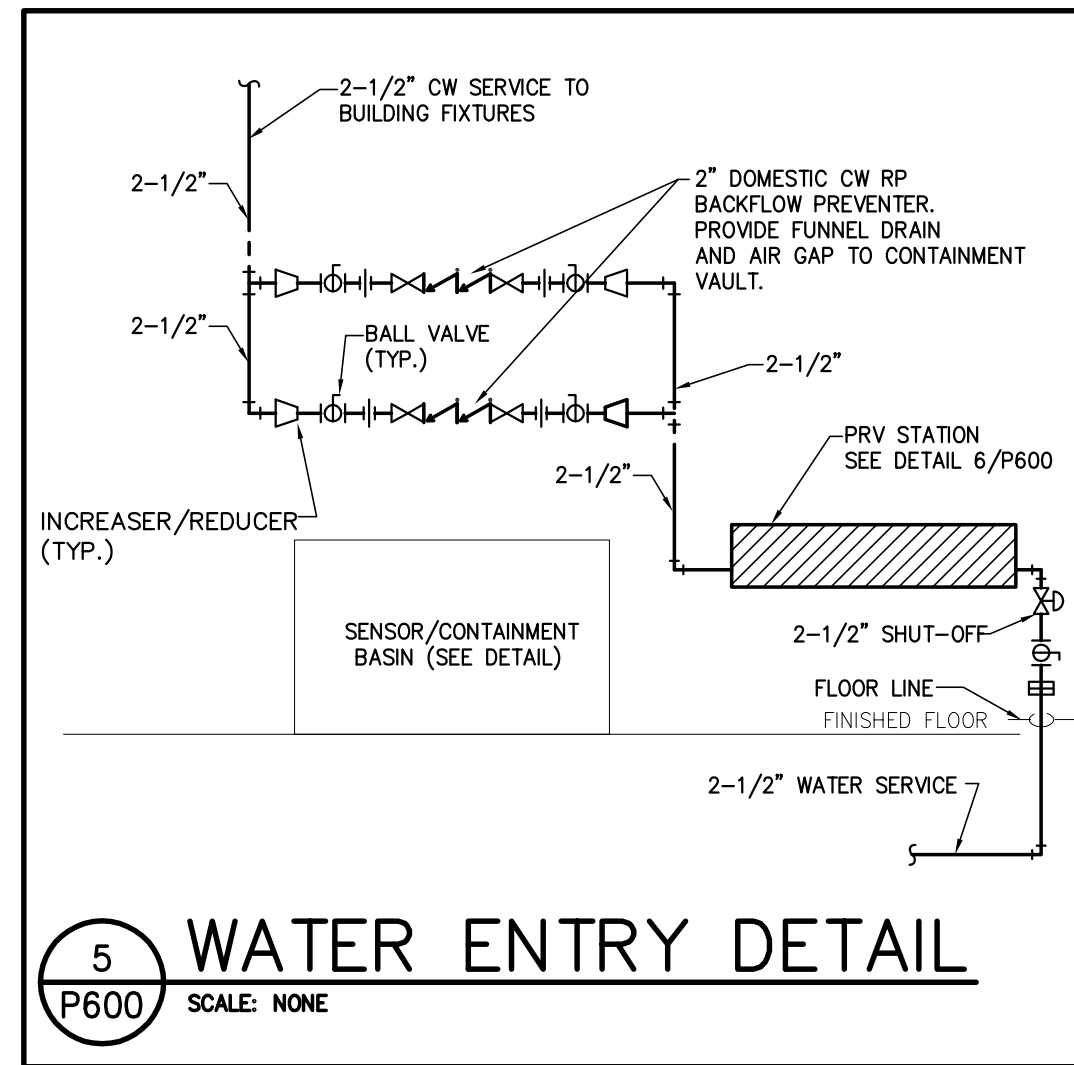
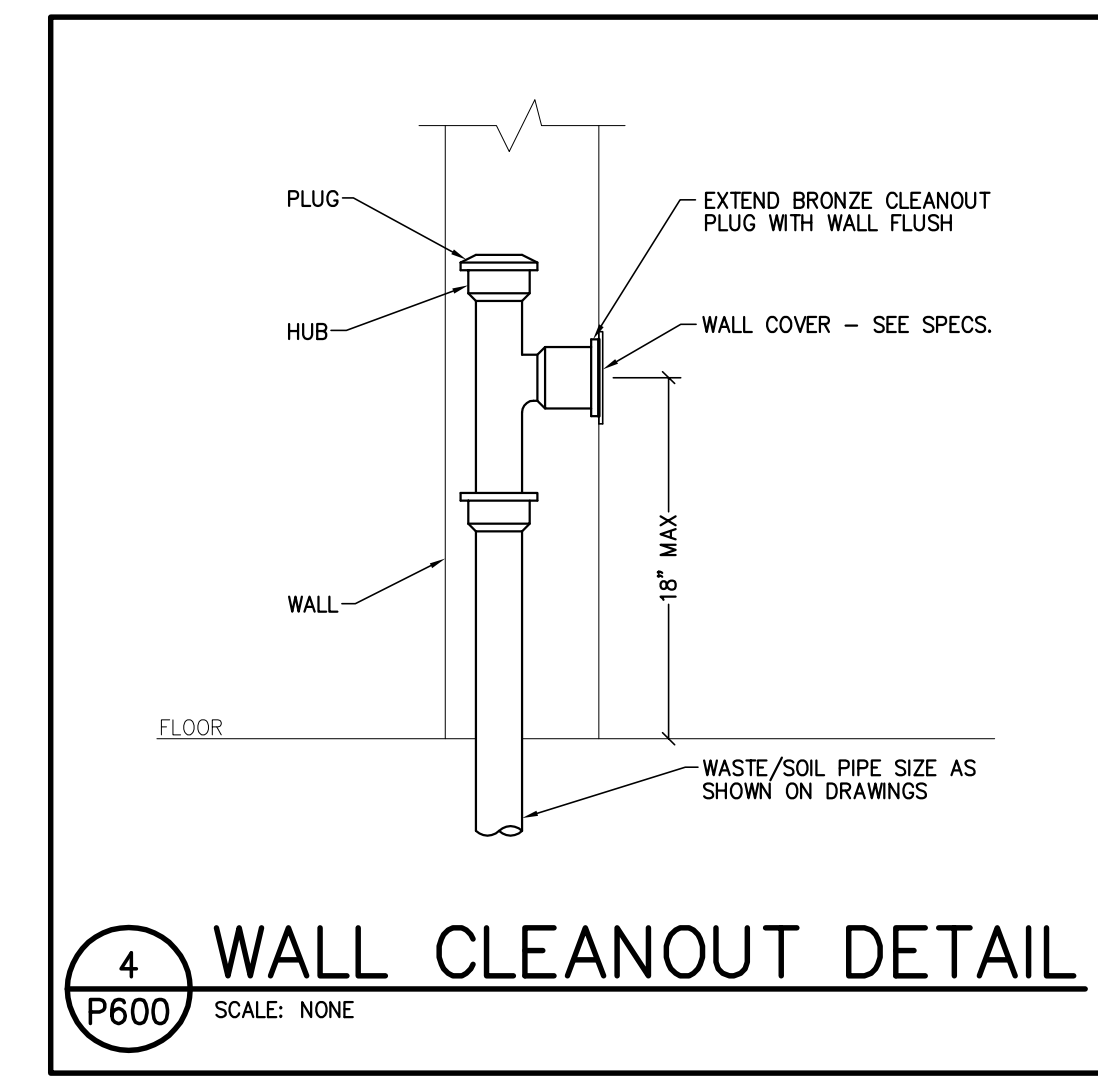
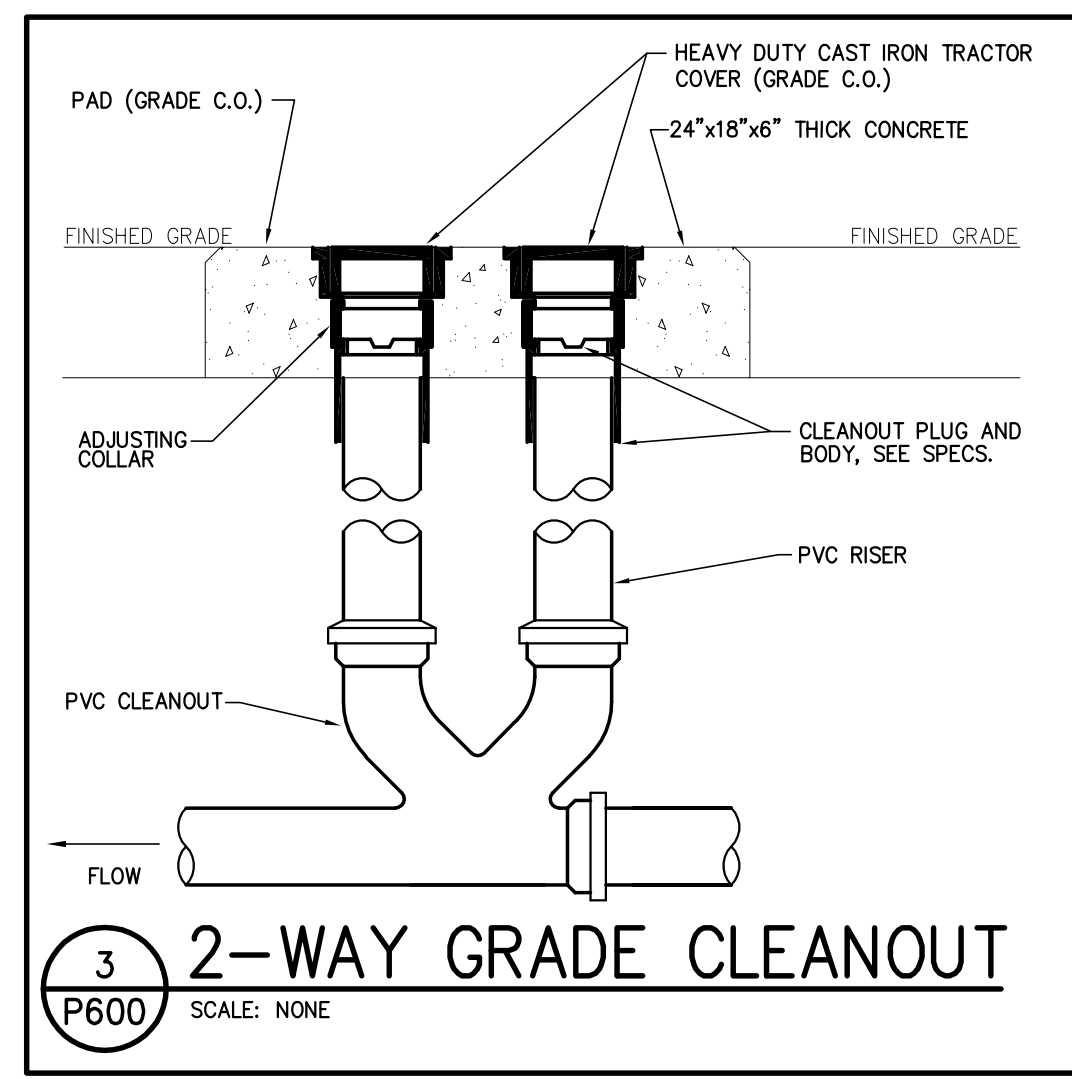
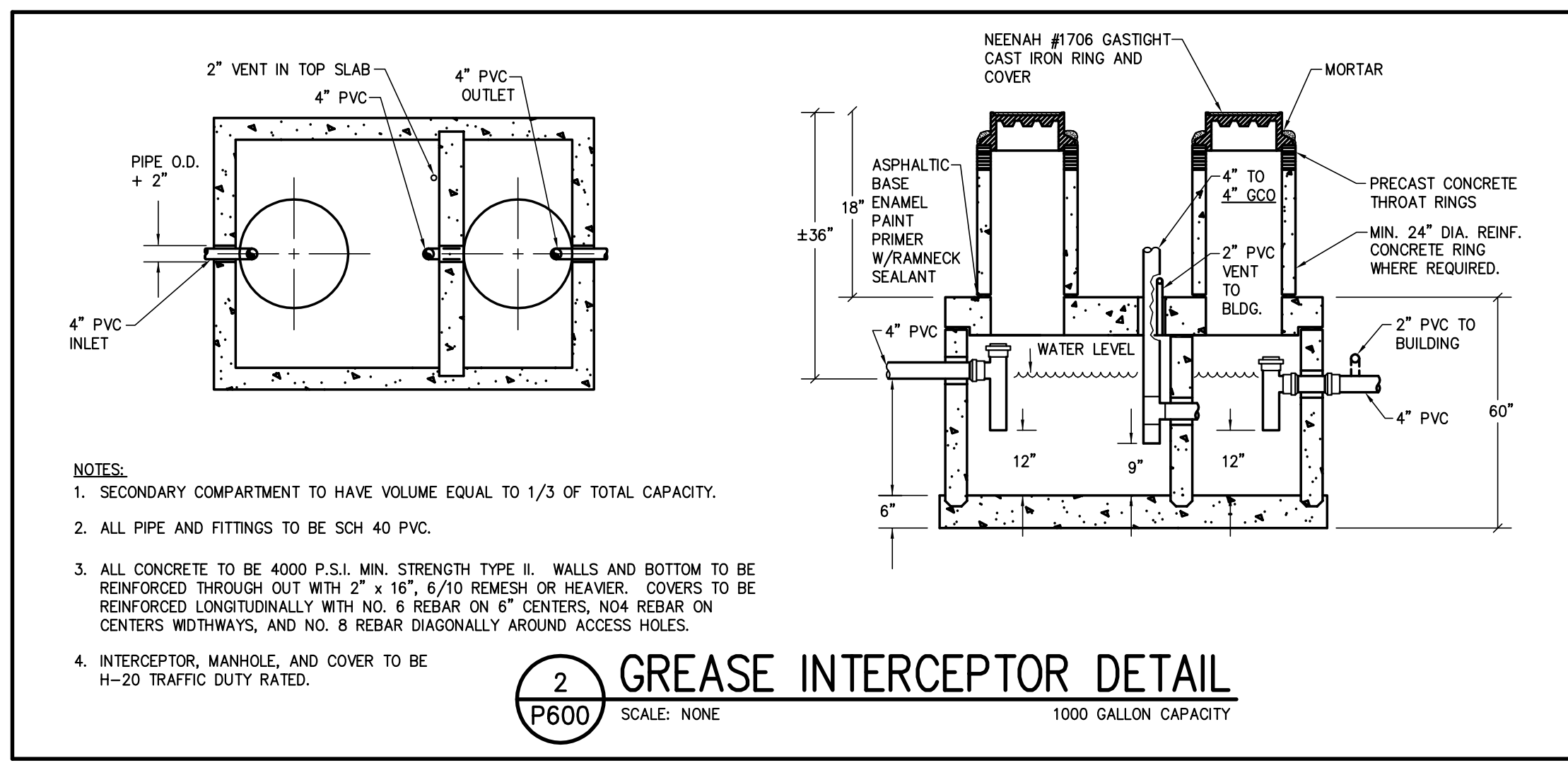
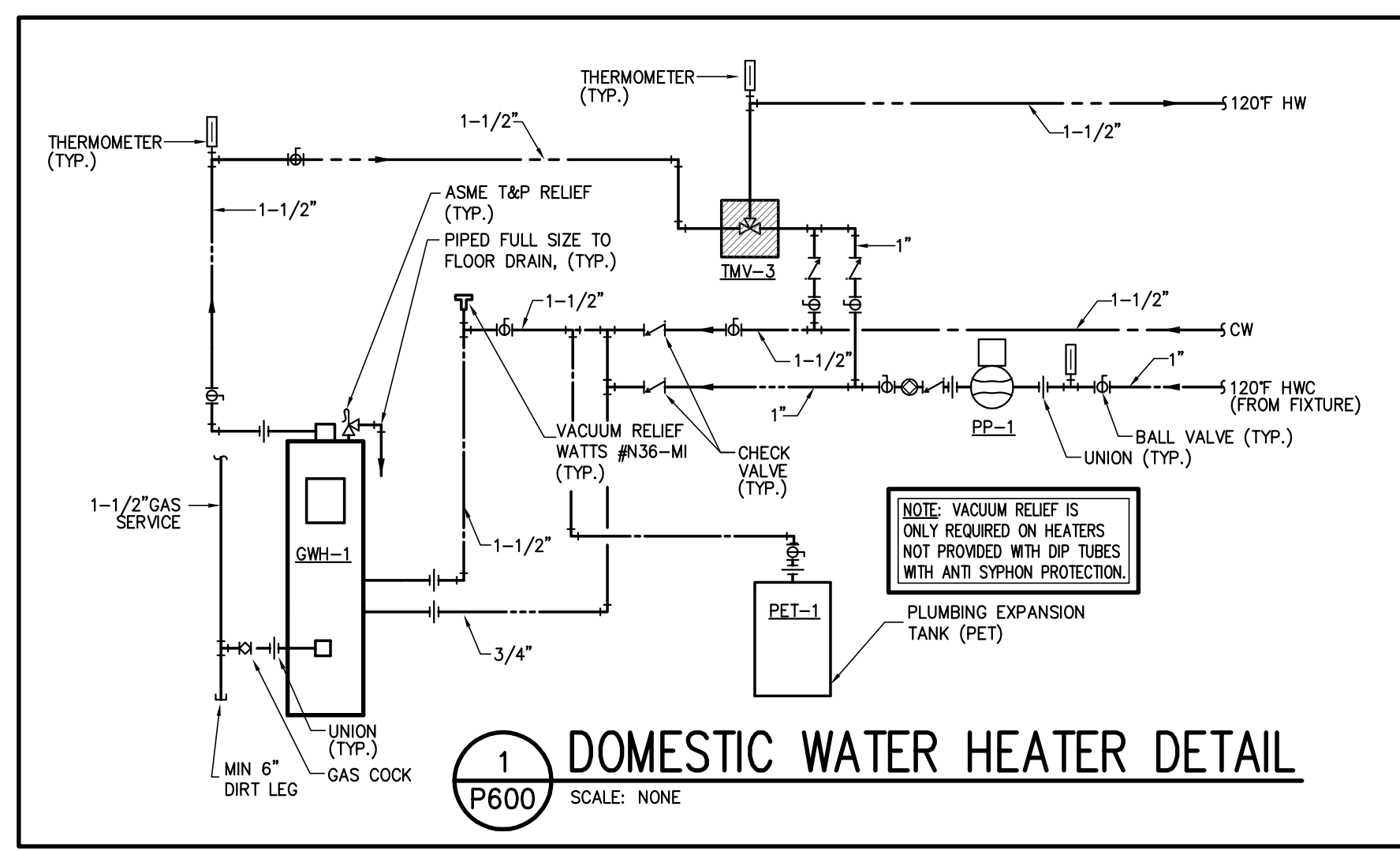
DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITY MANAGEMENT  
DESIGNED BY: FJG  
CHECKED BY: FJG  
DATE: JUN 25, 2014  
SCALE: NONE

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NO.	DATE	DESCRIPTION OF REVISION	AUTHORITY	MADE	APPR'D
3	07.24.14	BID ADDENDUM #4		OZ	KY
3	06.25.14	FOR CONSTRUCTION		OZ	KY
2	04.11.14	50% CONSTRUCTION DOCUMENTS		OZ	KY
1	01.10.14	100% SCHEMATIC DESIGN / DESIGN DEVELOPMENT		OZ	KY

**DENVER PUBLIC SCHOOLS**  
DEPARTMENT OF FACILITY MANAGEMENT  
SCHOOL DISTRICT NO. 1 SCHOOL NO. 982 SITE NO. DENVER, CO

**FLORENCE CRITTENTON**  
113266.00  
ZUNI STREET  
DENVER, COLORADO

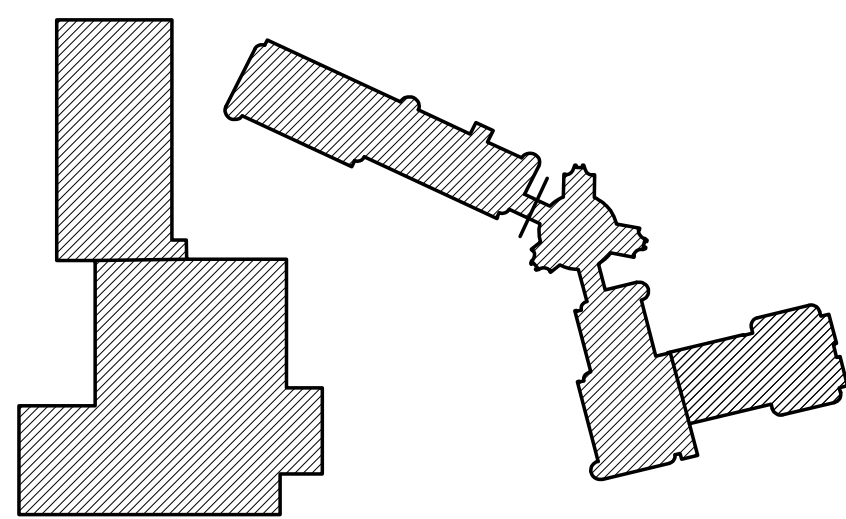
**PLUMBING DETAILS & ISOMETRICS**

DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITY MANAGEMENT  
DESIGNED BY: FJG  
CHECKED BY: TRH  
DATE: JUN 25, 2014  
SCALE: NONE

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