

**KEY NOTES:**

- ① CONNECT 3/4" HW, CW AND GAS TO WATER HEATER. 3/4" HW, CW AND GAS DOWN.
- ② 1-1/2" CW DOWN.
- ③ 1-1/4" CW DOWN.
- ④ 3/4" HW DOWN.
- ⑤ 1-1/4" HW DOWN.
- ⑥ 3/4" ICW TO MECHANICAL SYSTEM EXPANSION TANK
- ⑦ 3" G FROM BELOW.
- ⑧ 3/4" G W/GC TO WH (199CFH)
- ⑨ 3" G W/GC TO BOILER
- ⑩ 1-1/2" VTR

**PARTIAL MEZZANINIE PLAN - BOILER ROOM**

SCALE: 1/32" = 1'-0" P2.7 P2.8

**DCGA**  
 DONN C. GILMORE & ASSOCIATES, INC.  
 Consulting Mechanical and Electrical Engineers  
 4051 E. La Palma Ave., Ste. A  
 Anaheim, CA 92807  
 Ph.: 714.630.4291  
 Fax: 714.630.4805

DATE	SYM	REVISION	BY	A/PD

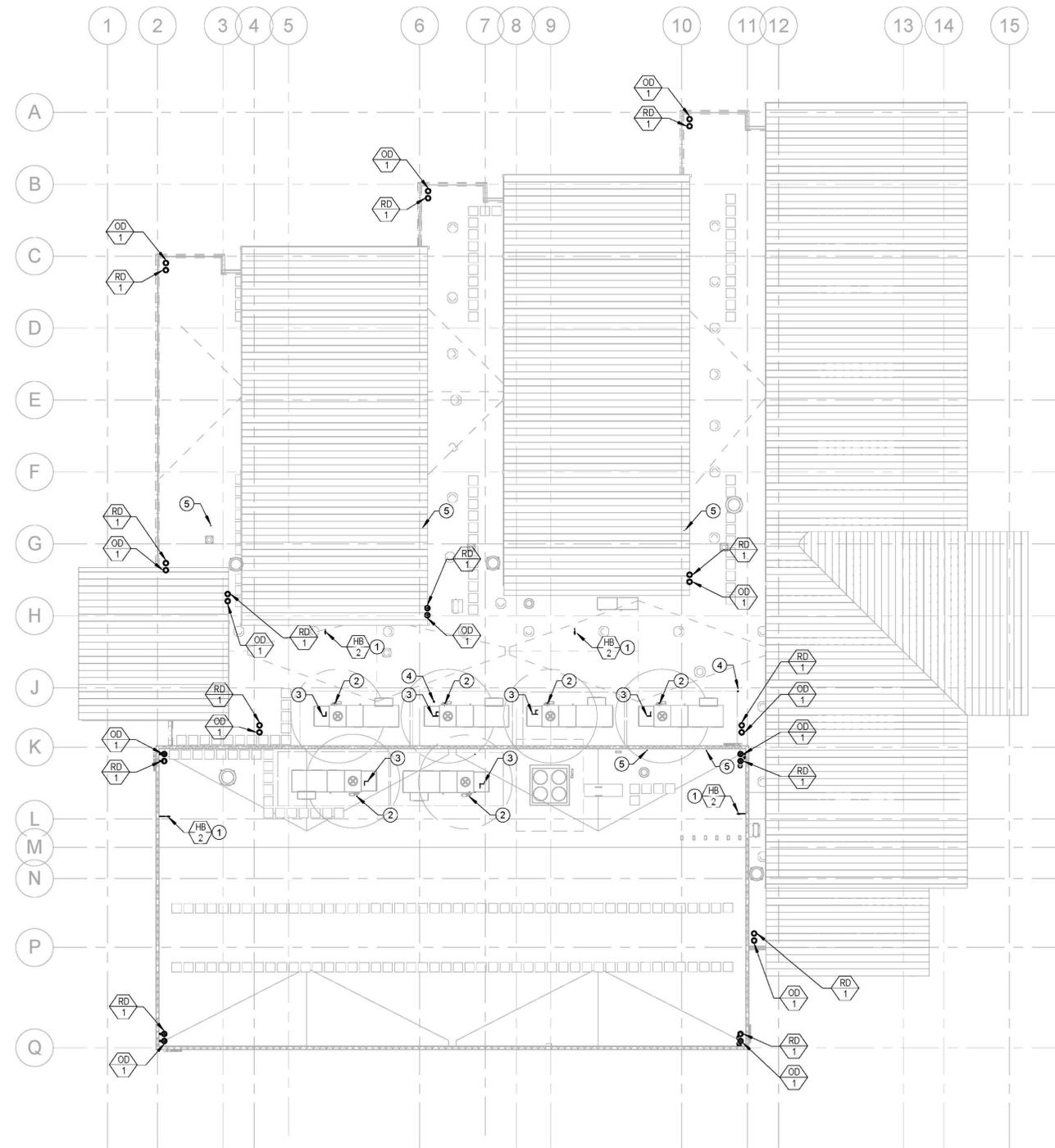
**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**  
 DRYDEN FLIGHT RESEARCH CENTER  
 EDWARDS, CA

**DRAWING TITLE**  
 PARTIAL MEZZANINIE PLAN - BOILER ROOM

**PROJECT TITLE**  
 9-18-11  
 FACILITIES SUPPORT CENTER  
 100% FINAL DESIGN SUBMITTAL

APPROVALS		DATE
Chief, Facilities Engineering	<i>[Signature]</i>	8-18-11
Project Requestor/Custom	<i>[Signature]</i>	8-18-11
Facilities Project Manager	<i>[Signature]</i>	8-18-11
Chief, Office of Protective Services	<i>[Signature]</i>	8-18-11
Chief - Safety, Health and Environmental Office	<i>[Signature]</i>	8-18-11
DFRC Chief Information Officer	<i>[Signature]</i>	8-18-11

DATE STRTD	11/04/10	DATE PRNTD	05/23/11
DRAWN BY		TRADE	EDM-1703
SCALE	AS NOTED	TRADE	
FILE NAME	P2.8	SHEET No.	151 of 195



**KEY NOTES:**

- ① 3/4" CW UP FROM BELOW.
- ② CONNECT 3/4" ICW TO EVAP. COOLER, 1" ICW DOWN.
- ③ 1-1/4" DRAIN FROM EVAP. COOLER DOWN.
- ④ 3" VTR
- ⑤ 1-1/2" VTR



**PLUMBING ROOF PLAN**

SCALE:  
1/16" = 1'-0"

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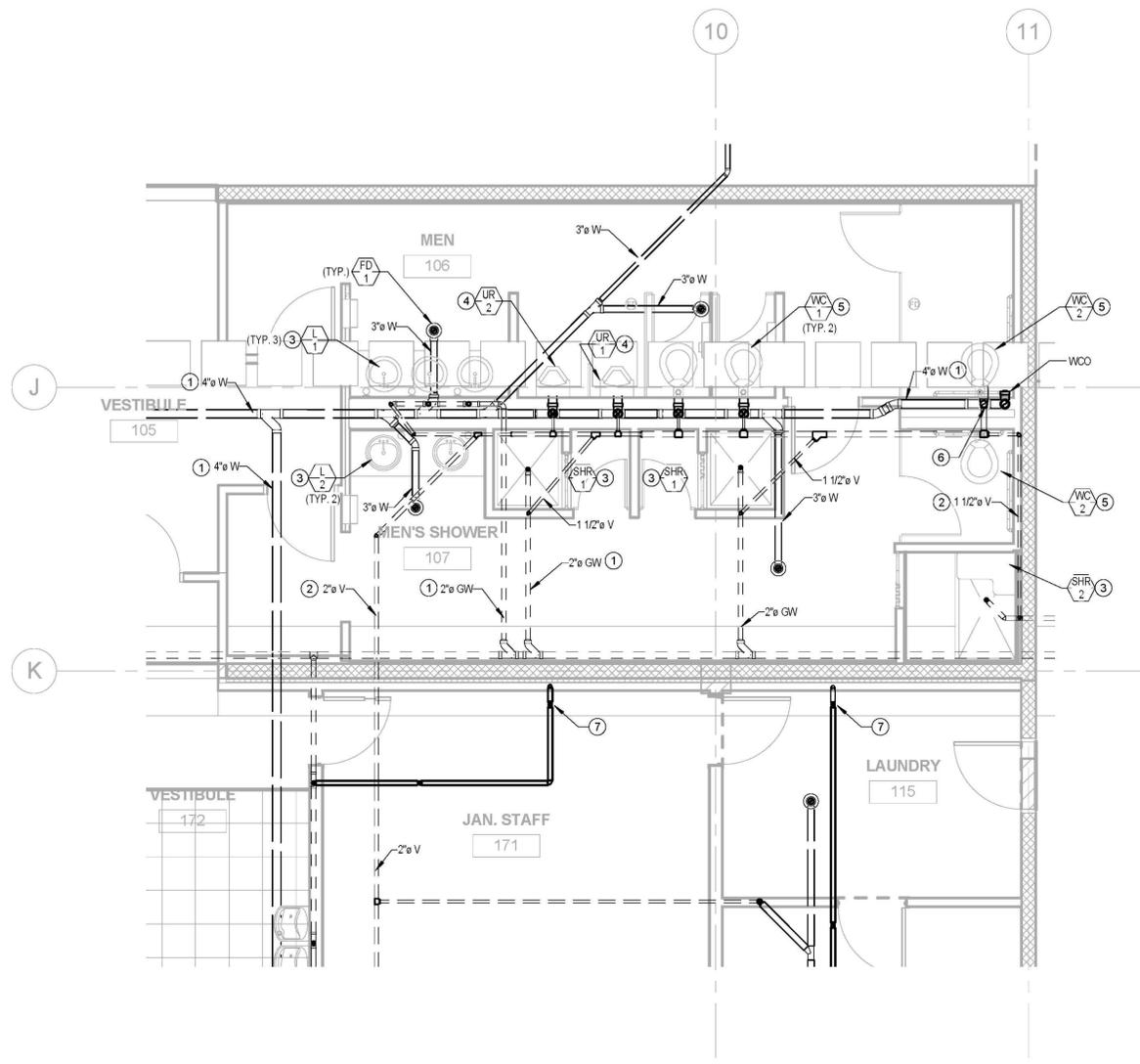
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 PLUMBING ROOF PLAN

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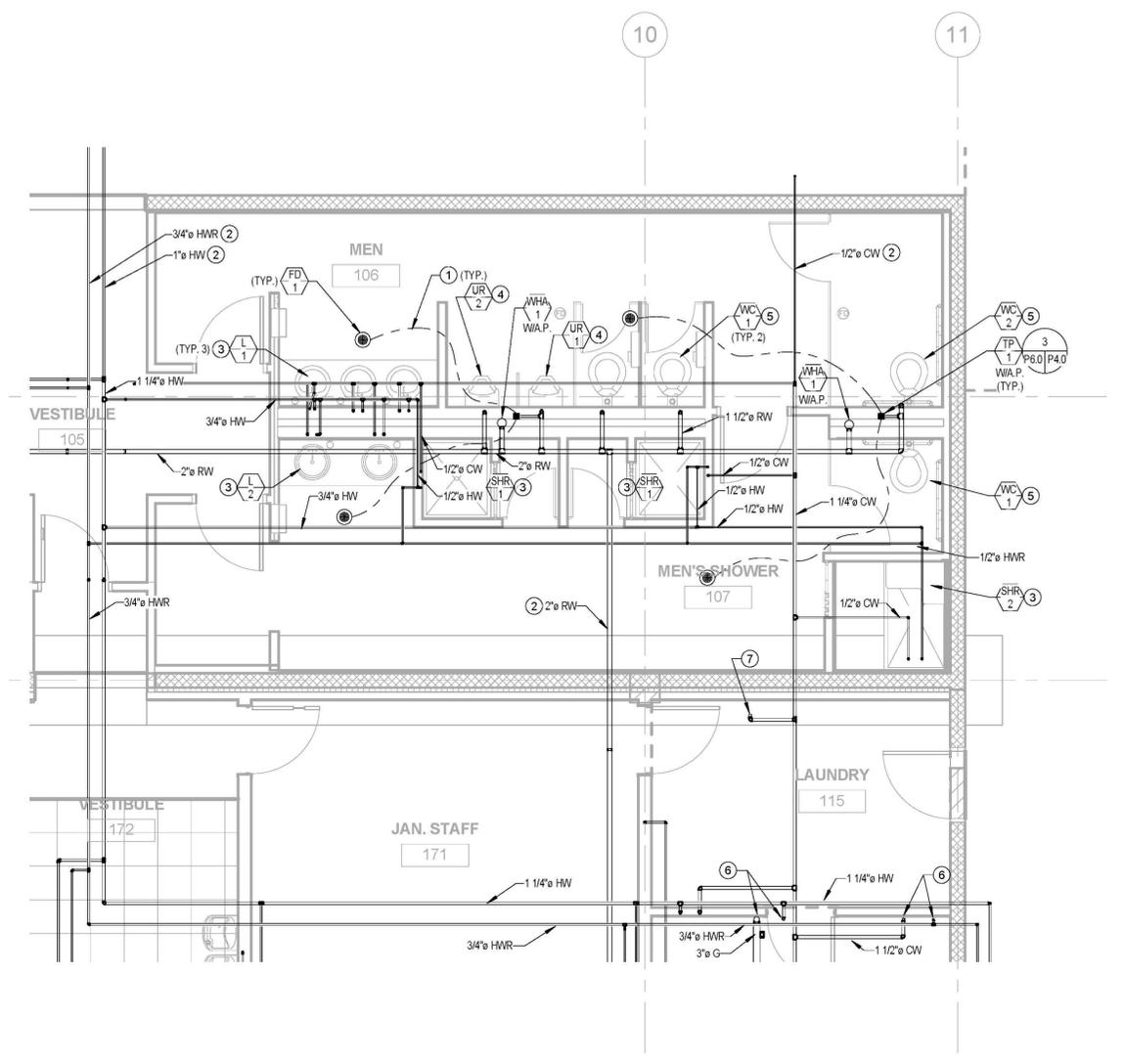
APPROVALS		DATE
Chief, Facilities Engineering	<i>[Signature]</i>	8-18-11
Project Requestor/Custom	<i>[Signature]</i>	8-18-11
Facilities Project Manager	<i>[Signature]</i>	8-18-11
Chief, Office of Protective Services	<i>[Signature]</i>	8-18-11
Chief - Safety, Health and Environmental Office	<i>[Signature]</i>	8-18-11
DFRC Chief Information Officer	<i>[Signature]</i>	8-18-11

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FILE NAME	P3.0	SHEET No.	152 of 195



**KEY NOTES**

- ① PIPING BELOW FLOOR.
- ② PIPING ABOVE CEILING.
- ③ 2" GREY WASTE DOWN, 1-1/2" V UP.
- ④ 2" WASTE DOWN, 1-1/2" V UP.
- ⑤ 4" WASTE DOWN, 2" V UP.
- ⑥ 3" VTR.
- ⑦ 3" WASTE UP TO FS-1



**KEY NOTES**

- ① PIPING BELOW FLOOR.
- ② PIPING ABOVE CEILING.
- ③ 1/2" HW & CW DOWN.
- ④ 1-1/4" RECLAIMED WATER SUPPLY DOWN.
- ⑤ 1-1/2" RECLAIMED WATER SUPPLY DOWN.
- ⑥ 3/4" HW, CW AND 3/4" HWR UP TO WATER HEATER ON MEZZANINE.
- ⑦ 1-1/2" CW UP TO BFP-1.



**ENLARGED MEN'S RESTROOM AND SHOWER - WASTE AND VENT PIPING PLAN**

SCALE: 2  
1/4" = 1'-0" (P2.1 P4.0)

**ENLARGED MEN'S RESTROOM AND SHOWER - HOT AND COLD WATER PLAN**

SCALE: 1  
1/4" = 1'-0" (P2.2 P4.0)

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 Ph.: 714.630.4291
   
 Fax: 714.630.4805

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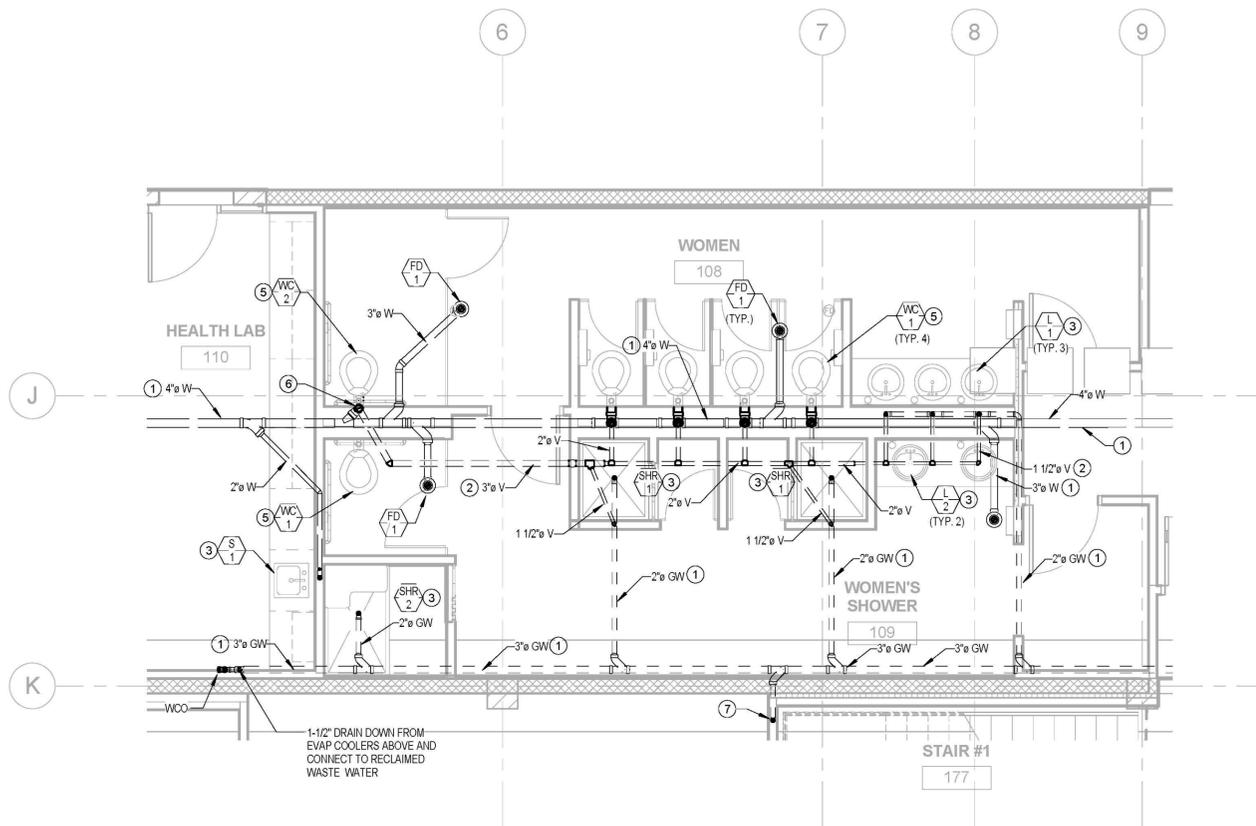
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**DRAWING TITLE**  
 PLUMBING ENLARGED PLANS

**PROJECT TITLE**  
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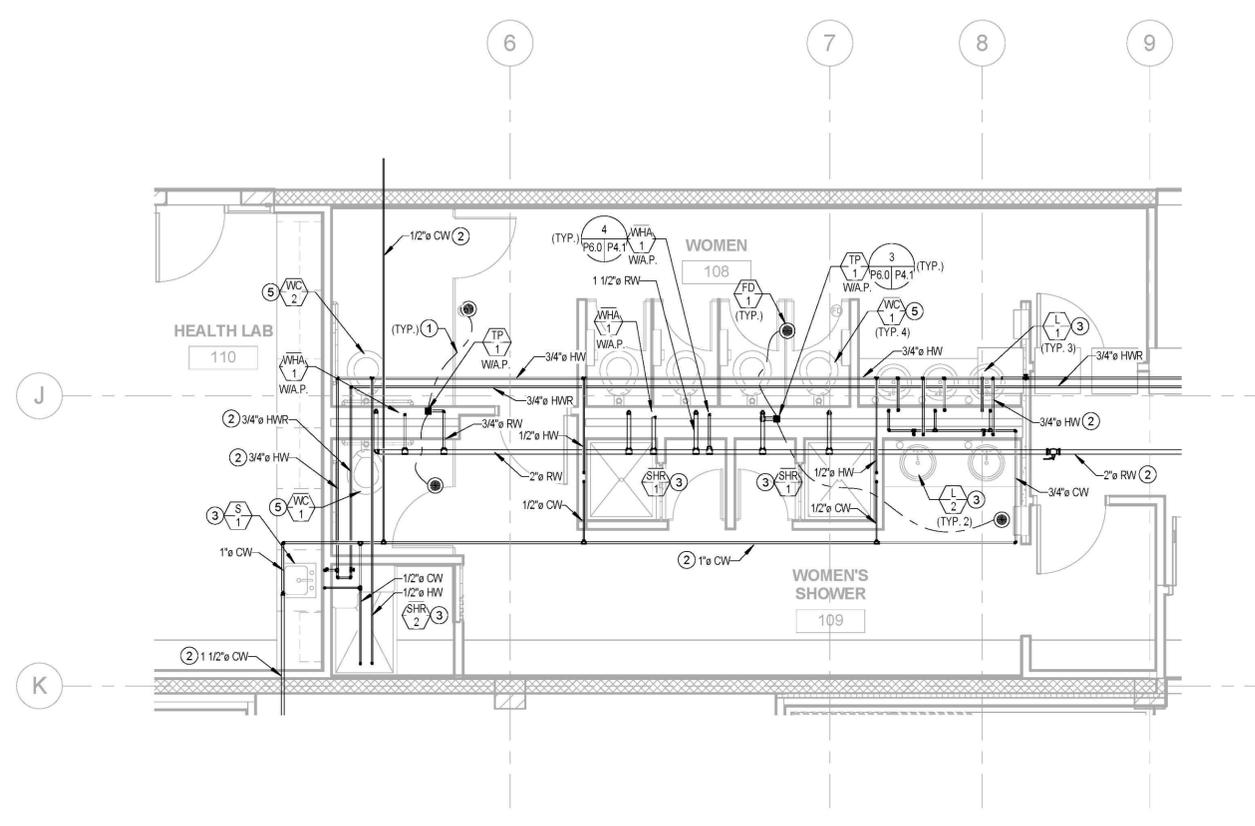
APPROVALS		DATE
Chief, Facilities Engineering	<i>Dan Crowley</i>	8-18-11
Project Requestor/Custom	<i>Dan Crowley</i>	8-18-11
Facilities Project Manager	<i>Genma Flores</i>	8-18-11
Chief, Office of Protective Services	<i>John Zellmer</i>	8-18-11
Chief - Safety, Health, and Environmental Office	<i>Dan Millen</i>	8-18-11
DFRC Chief Information Officer	<i>Ken Norlin</i>	8-18-11

DATE STRTD	11/04/10	DATE PRNTD	05/23/11
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FILE NAME	P4.0	SHEET No.	153 of 195



**KEY NOTES**

- ① PIPING BELOW FLOOR.
- ② PIPING ABOVE CEILING.
- ③ 2" GREY WASTE DOWN, 1-1/2" V UP.
- ④ 2" WASTE DOWN, 1-1/2" V UP.
- ⑤ 4" WASTE DOWN, 2" V UP.
- ⑥ 3" VTR.
- ⑦ 3" W UP TO FS-1



**KEY NOTES**

- ① PIPING BELOW FLOOR.
- ② PIPING ABOVE CEILING.
- ③ 1/2" HW & CW DOWN.
- ④ 1-1/4" RECLAIMED WATER SUPPLY DOWN.
- ⑤ 1-1/2" RECLAIMED WATER SUPPLY DOWN.



ENLARGED WOMEN'S RESTROOM AND SHOWER - WASTE AND VENT PIPING PLAN

SCALE: 2  
1/4" = 1'-0" (P2.4 P4.1)

ENLARGED WOMEN'S RESTROOM AND SHOWER - HOT AND COLD WATER PLAN

SCALE: 1  
1/4" = 1'-0" (P2.2 P4.1)

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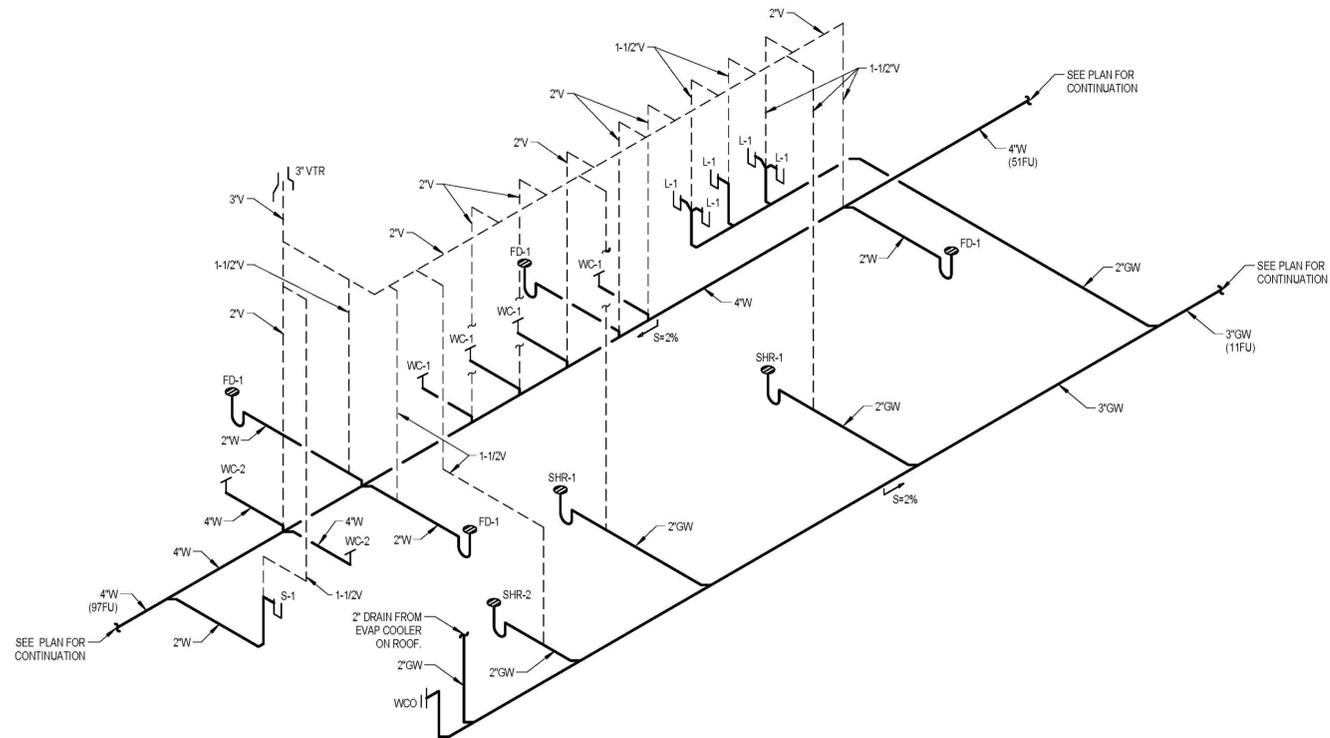
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PROJECT TITLE  
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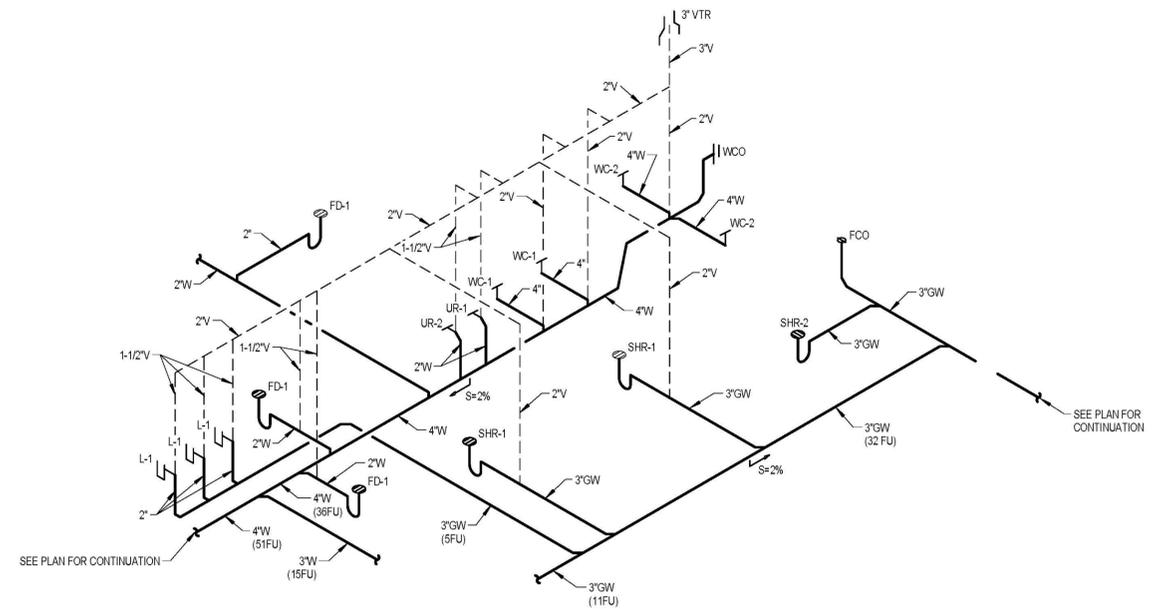
APPROVALS		DATE
Chief, Facilities Engineering	<i>Dan Crowley</i>	8-18-11
Project Requestor/Custom	<i>Dan Crowley</i>	8-18-11
Facilities Project Manager	<i>Gemma Flores</i>	8-18-11
Chief, Office of Protective Services	<i>John Zellmer</i>	8-18-11
Chief - Safety, Health and Environmental Office	<i>Dan Millen</i>	8-18-11
DFRC Chief Information Officer	<i>Ken Norlin</i>	8-18-11

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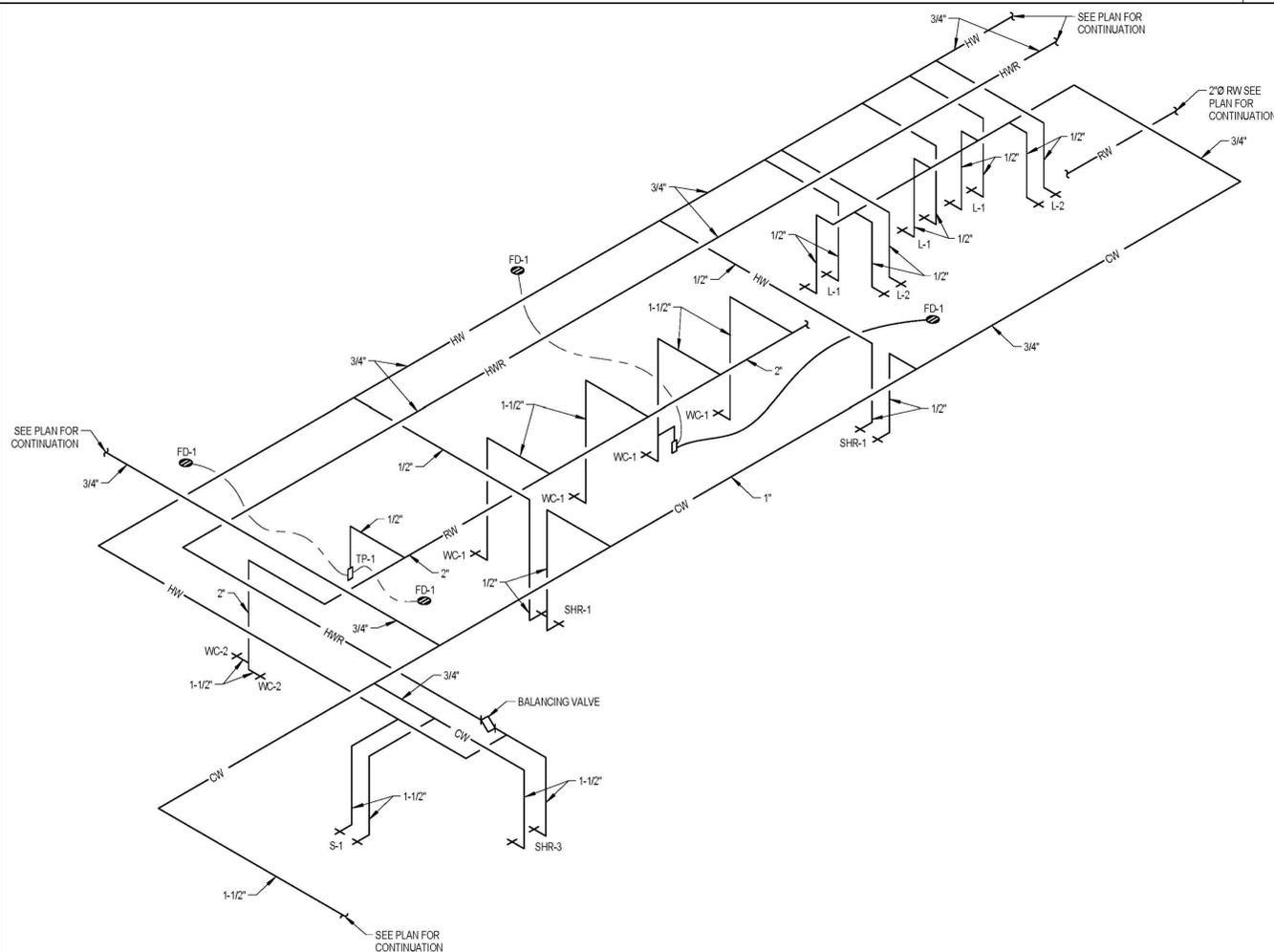
WASTE AND VENT PIPING - WOMEN'S RESTROOM

SCALE: 3  
NONE P4.1 P5.9



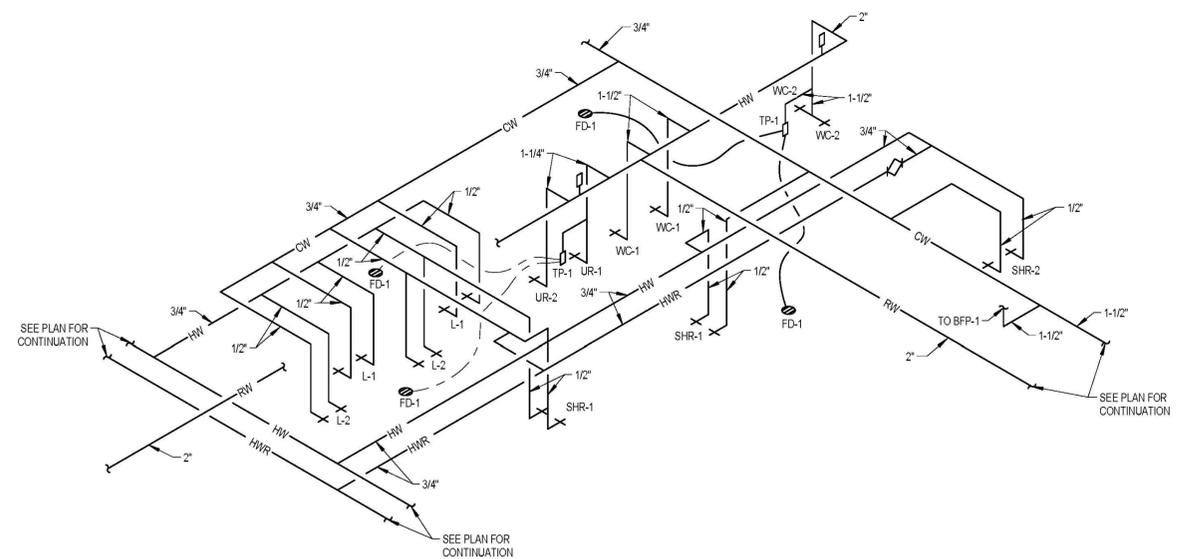
WASTE AND VENT PIPING - MEN'S RESTROOM

SCALE: 1  
NONE P4.0 P5.9



DOMESTIC HOT & COLD WATER, RECLAIMED WATER PIPING - WOMEN'S RESTROOM

SCALE: 4  
NONE P4.1 P5.9



DOMESTIC HOT & COLD WATER, RECLAIMED WATER PIPING - MEN'S RESTROOM

SCALE: 2  
NONE P4.0 P5.9

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EDWARDS, CA

**APPROVALS**

NAME	DATE
DAN CROWLEY	8-18-11
DAN CROWLEY	8-18-11
GEMMA FLORES	8-18-11
JOHN ZELLMER	8-18-11
DAN MILLLEN	8-18-11
KEN NORLUN	8-18-11

**DRAWING TITLE**  
PLUMBING PIPING DIAGRAMS

**PROJECT TITLE**  
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FACILITIES SUPPORT CENTER  
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FILE NAME:    SHEET No. 155 of 195