

CGC TABLE 5.303.2.3 FIXTURE FLOW RATES

FIXTURE TYPE	FLOW RATE	MAXIMUM FLOW RATE AT @ 20 PERCENT REDUCTION
FAUCETS	2.2 GPM @ 60 PSI	1.8 GPM @ 60 PSI
SHOWERHEADS	2.5 GPM @ 80 PSI	2 GPM @ 80 PSI
FLUSHMETER VALVE WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
URINALS	1.0 GALLONS/FLUSH	0.5 GALLONS/FLUSH

NOTES:
 1. INCLUDES SINGLE AND DUAL FLUSH WATER CLOSETS WITH AN EFFECTIVE FLUSH OR 1.28 GALLONS OR LESS. SINGLE FLUSH TOILETS- THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS (4.8 LITERS). THE EFFECTIVE FLUSH VOLUME IS THE AVERAGE FLUSH VOLUME WHEN TESTED IN ACCORDANCE WITH ASME A112.19.233.2.
 DUAL FLUSH TOILETS- THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS (4.8 LITERS). THE EFFECTIVE FLUSH VOLUME IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH. FLUSH VOLUMES WILL BE TESTED IN ACCORDANCE WITH ASME A112.19.2 AND ASME A112.19.14.

CGC TABLE 4.303.2 FIXTURE FLOW RATES

FIXTURE TYPE	FLOW RATE	MAXIMUM FLOW RATE AT 20 PERCENT REDUCTION
SHOWERHEADS	2.5 GPM @ 80 PSI	2 GPM @ 80 PSI
KITCHEN FAUCETS	2.2 GPM @ 60 PSI	1.8 GPM @ 60 PSI
FLUSHMETER VALVE WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
URINALS	1.0 GALLONS/FLUSH	0.5 GALLONS/FLUSH

1. INCLUDES SINGLE AND DUAL FLUSH WATER CLOSETS WITH AN EFFECTIVE FLUSH OR 1.28 GALLONS OR LESS. SINGLE FLUSH TOILETS- THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS (4.8 LITERS). THE EFFECTIVE FLUSH VOLUME IS THE AVERAGE FLUSH VOLUME WHEN TESTED IN ACCORDANCE WITH ASME A112.19.233.2.
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 2. LAVATORY FAUCETS SHALL NOT HAVE A FLOW RATE LESS THAN 0.8 GPM AT 20 PSI.

WATER CALCULATION

PRESSURE AVAILABLE	
STATIC PRESSURE IN MAIN: 84 ±10	= +84 PSI
ESTIMATED PRESSURE LOSS THRU METER	= - 5 PSI
ESTIMATED PRESSURE LOSS THRU BACKFLOW	= -10 PSI
MINIMUM PRESSURE REQUIRED AT LAST FIXTURE	= -30 PSI
STATIC HEAD LOSS (55 FEET x .43)	= -23.65 PSI
TOTAL	= 15.35 PSI
TOTAL DEVELOPED LENGTH (TDL)	= 250 FEET
TOTAL EQUIVALENT LENGTH (TDLx1.5)	= 375 FEET
$\frac{(15.35 \times 100)}{375}$	= 4.09 PSI ALLOWABLE LOSS PER 100 FT

PIPE SIZING CHART BASED ON 3 PSI/100FT LOSS.

CW PIPING SIZING CHART 3 psi

SIZE	GPM	FIXTURE UNITS		VELOCITY (FPS)
		FLUSH TANK	FLUSH VALVE	
1/2"	1.8	---	---	2.4
3/4"	4.7	4	---	3.0
1"	9	12	---	3.6
1 1/4"	17	24	---	4.3
1 1/2"	27	46	10	4.9
2"	56	155	63	5.7
2 1/2"	100	380	245	7.2
3"	175	778	739	8
4"	278	1500	1500	8

HW PIPING SIZING CHART 3 psi

SIZE	GPM	FIXTURE UNITS		VELOCITY (FPS)
		FLUSH TANK	FLUSH VALVE	
1/2"	1.8	---	---	2.4
3/4"	4.7	4	---	3.0
1"	9	12	---	3.6
1 1/4"	17	24	---	4.3
1 1/2"	27	46	---	4.9
2"	46	111	---	5
2 1/2"	71	225	---	5
3"	110	431	---	5
4"	180	809	---	5

PLUMBING LEGEND AND ABBREVIATIONS

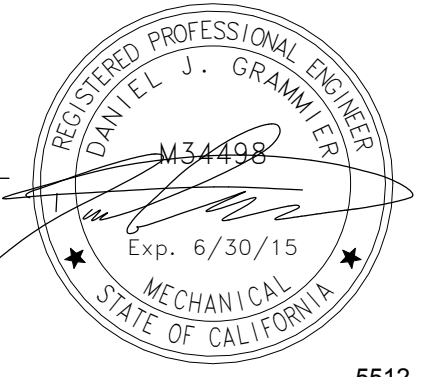
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION		ABV	ABOVE
	WS	WASTE OR SEWER BELOW SLAB		AC	ABOVE CEILING
	PW	PUMPED SANITARY WASTE		ADA	AMERICANS WITH DISABILITIES ACT
	GW	GREASE WASTE		A.F.F.	ABOVE FINISH FLOOR
	WS	WASTE OR SEWER ABOVE SLAB		A.F.G.	ABOVE FINISH GRADE
	V	SANITARY VENT		AVG	ABOVE GRADE
	CW	COLD WATER		A.P.	ACCESS PANEL
	HW	HOT WATER		BIF	BELOW FLOOR
	HWR	HOT WATER RETURN		BIG	BELOW GRADE
	G	LOW PRESSURE NATURAL GAS (7" W.C.)		CFH	CUBIC FEET PER HOUR
	MPG	MEDIUM PRESSURE NATURAL GAS (6 PSI)		DWGS.	DRAWINGS
	FD	FOUNDATION DRAIN		EA	EACH
	PD	PUMPED FOUNDATION DRAIN		EXIST.	EXISTING
	RD	ROOF DRAIN		(E)	EXISTING
	ORD	OVERFLOW ROOF DRAIN		FT.	FEET OR FOOT
	CD	CONDENSATE DRAIN		FDC	FIRE DEPARTMENT CONNECTION
	OCD	OVERFLOW CONDENSATE DRAIN		F	FIRE RISER
	SD	STORM DRAIN		FLR.	FLOOR
	F	FIRE SPRINKLER PIPING		G.P.F.	GALLONS PER FLUSH
	CD	CONDENSATE DRAIN PIPING		G.P.H.	GALLONS PER HOUR
	TW	TEMPERED WATER		G.P.M.	GALLONS PER MINUTE
	SOV	SHUT OFF VALVE		I.E.	INVERT ELEVATION
	PRV	PRESSURE REDUCING VALVE		L.P.F.	LITERS PER FLUSH
	FS	FLOOR SINK		L/S	LITERS PER SECOND
	FD	FLOOR DRAIN		LB	POUNDS
	FCO	FLOOR CLEAN-OUT		MSA	MEDIUM PRESSURE GAS METER
	WCO	WALL CLEAN-OUT		NTS	NOT TO SCALE
	GCO	GRADE CLEAN-OUT		ORD	OVERFLOW ROOF DRAIN
	ZWGO	2 WAY GRADE CLEAN-OUT		OH	OVERHEAD
	DN	DOWN OR DROP		PSI	POUNDS PER SQUARE INCH
	UP	RISE OR RISER		RD	ROOF DRAIN
	HB	HOSE BIBB		SA	SET ASSEMBLY
	VR	VALVE ON RISE OR DROP		SF	SQUARE FEET
	U	UNION		SIM.	SIMILAR
	RV	TEMPERATURE & PRESSURE RELIEF VALVE		T.D.H.	TOTAL DEVELOPED HEAD
	FDC	FIRE DEPARTMENT CONNECTION		UG	UNDERGROUND
	CP	CIRCULATING PUMP		V.T.R.	VENT THROUGH ROOF
	CV	CHECK VALVE		W.C.	WATER COLUMN
	TP	TRAP PRIMER		WHA	WATER HAMMER ARRESTOR
	WHA	WATER HAMMER ARRESTOR			
	REG	GAS REGULATOR WSHUT-OFF VALVE			
	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER			
	GC	GAS COCK			

GENERAL NOTES

- NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
- LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AS INSTITUTIONAL), SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
- COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
- HOSE BIBBS SHALL BE PROTECTED BY AN APPROVED NON-REMOVABLE TYPE BACKFLOW PROTECTION DEVICE. HOSE BIBBS SHALL BE MOUNTED AT +18" ABOVE FLOOR UNLESS OTHERWISE NOTED.
- PROVIDE ALL TAILPIECES, TRAPS, STOPS, SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE WITH PRE-FORMED INSULATION JACKET.
- COORDINATE AND VERIFY SIZES, LOCATIONS, DEPTHS AND PRESSURIZED PIPING PRESSURES OF ALL BUILDING UTILITIES WITH CIVIL.
- COORDINATE AND SCHEDULE TIMING FOR UTILITY SERVICE CONNECTION.
- ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
- ALL LINES RUNNING BELOW GRADE BEAMS OR PENETRATING, SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION.
- ALL VENTS THRU ROOF SHALL BE MINIMUM OF 18 INCHES VERTICAL AND TEN FEET HORIZONTAL AWAY FROM ALL AIR CONDITIONING FRESH AIR INTAKES AND PROVIDED WITH VANDAL PROOF HOODS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
- COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWINGS PRIOR TO WORK.
- COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHEN ACCESS PANELS ARE REQUIRED IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
- INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE, MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
- ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
- LAVATORY FAUCETS IN RESTROOMS SHALL BE THE SELF-CLOSING TYPE.
- SINK FAUCETS TO BE 1.8 GPM MAXIMUM.
- WATER HEATER TO BE USED SHALL BE ON CALIFORNIA ENERGY COMMISSION (CEC) LIST.
- PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE (SECTION 088.3 UPC).
- CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.
- COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.
- COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO ORDERING ANY EQUIPMENT.
- UPON INSTALLATION OF ALL EQUIPMENT, DEVICES, VIBRATION ISOLATION, ETC., PROVIDE WRITTEN CONFIRMATION BY EQUIPMENT MANUFACTURER'S REPRESENTATIVES TO ENSURE COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
- PROVIDE DETAILS AND SEISMIC CALCULATIONS FOR ALL EQUIPMENT ON VIBRATION ISOLATION. ALL DETAILS SHALL BE STAMPED BY A STRUCTURAL ENGINEER FROM VIBRATION ISOLATION MANUFACTURER.
- FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER. ANY DISCREPANCIES/EXCEPTIONS NOT IDENTIFIED IN WRITING SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR AND AT NO EXPENSE TO THE OWNER AND ENGINEER.
- SLOPE OF PIPING SYSTEMS:
 - A. SANITARY SEWER, WASTE & VENT PIPING: 2% UNLESS NOTED OTHERWISE.
 - B. ROOF DRAIN & OVERFLOW DRAIN PIPING: 2% UNLESS NOTED OTHERWISE.
 - C. INDIRECT WASTE PIPING: 2% UNLESS NOTED OTHERWISE.
 - D. CONDENSATE DRAIN PIPING: 1%
- WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 5.08.2 CPC.
- FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.

HOT WATER DEMAND - KITCHEN (EWH-1)

ITEM NO.	FIXTURE	QTY	GPH	TOTAL GPH
4	MOP SINK	1	15	15
67	HAND SINK	3	5	15
74	3 COMPARTMENT SINK	1	42	42
78	PRE-RINSE	1	45	45
85	PREP-SINK	1	14	14
L-2	LAVATORY	3	5	15
TOTAL GALLONS PER HOUR				148
148 GPH X 80°F TEMP RISE X 8.33 LBS				= 97,284 BTUH
				0.75



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PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE	ROUGH-IN (mm)					REMARKS
		HW	CW	W	TRAP	V	
WC 1	WATER CLOSET	-	1"	4"	INT.	2"	WALL MOUNT, FLUSH VALVE, 1.28 GPF
WC 2	WATER CLOSET - ACCESSIBLE	-	1"	4"	INT.	2"	WALL MOUNT, FLUSH VALVE, 1.28 GPF, ACCESSIBLE
UR 1	URINAL - ACCESSIBLE	-	3/4"	2"	INT.	1 1/2"	WALL MOUNT, WATERLESS, STAINLESS STEEL STRAINER, ACCESSIBLE. PROVIDE PVC WASTE AND VENT PIPING. PROVIDE WATER DISTRIBUTION LINE ROUGH-IN WITH SHUT-OFF VALVE.
L 1	LAVATORY - ACCESSIBLE	1/2"	1/2"	2"	2"	1 1/2"	COUNTERTOP, 0.5 GPM, ACCESSIBLE
SH 1	SHOWER - ACCESSIBLE	1/2"	1/2"	2"	2"	2"	THERMOSTATIC SHOWER VALVE, DRAIN, 1.5 GPM MAX, ACCESSIBLE
S 1	SINK - ACCESSIBLE	1/2"	1/2"	2"	2"	2"	COUNTER MOUNT, STAINLESS STEEL, SINGLE COMPARTMENT, GOOSENECK FAUCET, GARBAGE DISPOSAL, 120V, ACCESSIBLE
S 2	SINK - ACCESSIBLE	1/2"	1/2"	2"	2"	2"	COUNTER MOUNT, STAINLESS STEEL, DOUBLE COMPARTMENT, GOOSENECK FAUCET, GARBAGE DISPOSAL, 120V, ACCESSIBLE
MS 1	MOP SINK	3/4"	3/4"	3"	3"	2"	FLOOR MOUNTED, 28 X 28 X 6 INCH DEEP BASIN, CHROME FAUCET WITH VACUUM BREAKER, WALL BRACE, AND BUCKET HOOK.
FD 1	FLOOR DRAIN	-	-	2"	2"	2"	WITH TRAP PRIMER CONNECTION.
FD 2	FLOOR DRAIN	-	-	3"	3"	2"	WITH TRAP PRIMER CONNECTION.
FS 1	FLOOR SINK	-	-	2"	2"	2"	BRONZE GRATE AND FRAME. PROVIDE AUTOMATIC TRAP PRIMER.
HB 1	HOSE BIBB (EXTERIOR)	-	3/4"	-	-	-	WITH VACUUM BREAKER
TP 1	TRAP PRIMER SINGLE CONNECTION	-	1/2"	-	-	-	BRASS CONSTRUCTION, SINGLE SUPPLY, 5 PSI OPERATING PRESSURE.
DF 1	DRINKING FOUNTAIN - ACCESSIBLE	-	1/2"	2"	2"	1 1/2"	WALL MOUNT, BI-LEVEL
PD 1	PLANTER DRAIN	-	-	6"	6"	-	CAST IRON BODY, FLASHING RING, CLAMPING COLLAR FOR WATER PROOFING, CONNECT TO STORM DRAIN, JR SMITH #1937, PERFORATED DOME COVER WITH REMOVABLE LID SHALL EXTEND TO FINISH SURFACE.
OPD 1	OVERFLOW PLANTER DRAIN	-	-	6"	6"	-	CAST IRON BODY, FLASHING RING, CLAMPING COLLAR FOR WATER PROOFING, CONNECT TO STORM DRAIN, JR SMITH #1937, PERFORATED DOME COVER WITH REMOVABLE LID SHALL EXTEND TO FINISH SURFACE.
DD 1	DECK DRAIN	-	-	3"	-	-	NICKLE BRONZE FRAME AND GRATE, HEEL PROOF, CONNECT TO STORM SYSTEM.
CWB 1	CLOTHES WASHER BOX	1/2"	1/2"	2"	2"	2"	WALL BOX, HOT & COLD WATER FITTINGS, DRAIN CONNECTION STANDPIPE.
SB 1	SUPPLY BOX	-	1/2"	-	-	-	WALL BOX, COLD WATER FITTINGS.
RR 1	ROOF RECEPTOR	-	-	3"	3"	2"	CAST IRON BODY, FLASHING RING, CLAMPING COLLAR FOR WATER PROOFING, CONNECT TO SANITARY SYSTEM.

FOOD SERVICE ROUGH-IN SCHEDULE (KITCHEN 106)									
SYMBOL	QTY	FIXTURE	ROUGH-IN					REMARKS	
			WASTE		GAS				
			CW	HW	DIRECT	INDIRECT	SIZE	LOAD	
RI 2	2	COMBI OVEN WITH STAND	3/4"			1 1/2"			INDIRECT DRAIN TO FLOOR SINK
RI 21	2	WATER FILTER	3/4"						
RI 22	2	VENTLESS HOOD				3/4"			INDIRECT DRAIN TO FLOOR SINK
RI 31	1	FREEZER EVAP. COIL				1"			INDIRECT DRAIN TO FLOOR SINK
RI 17	1	3 COMPARTMENT SINK				(3) 1 1/2"			INDIRECT DRAIN TO FLOOR SINK
RI 18	1	3 COMPARTMENT SINK FAUCET	1/2"	1/2"					
RI 20	1	PREP TABLE 2 COMPARTMENT SINK				(2) 1 1/2"			INDIRECT DRAIN TO FLOOR SINK
RI 21	1	PRE-RINSE FAUCET	1/2"	1/2"					
RI 25	1	HAND SINK	1/2"	1/2"	1 1/2"				

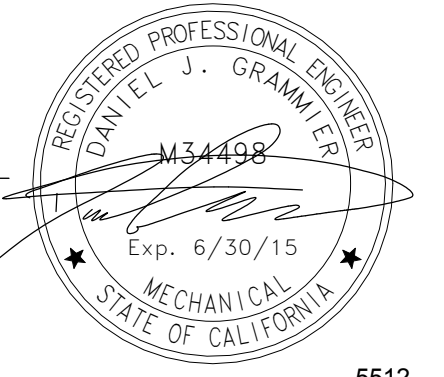
PLUMBING EQUIPMENT SCHEDULE			
SYMBOL	TYPE	DESCRIPTION	LOCATION
EW 1	DOMESTIC HOT WATER HEATER	ELECTRIC, DOMESTIC WATER HEATER, 50 GALLON, 45 KW, 3 PH, 480 V, 184 GPH @ 100 DEGREE RISE, 60 HZ, 800 LBS OPERATING WEIGHT, HEATING ELEMENTS SIMULTANEOUS OPERATION.	LEVEL 1 (WH CLOSET)
EW 2	INSTANTANEOUS WATER HEATER	ELECTRIC, 3.6 KW, 1 PH, 120 V, CHROMOMITE M-30L/120	LAVATORY
EW 3	INSTANTANEOUS WATER HEATER	ELECTRIC, 11 KW, 1 PH, 277 V, CHROMOMITE M-40/277	SINK
EW 4	INSTANTANEOUS WATER HEATER	ELECTRIC, 11.5 KW, 1 PH, 240 V, CHROMOMITE M-50/240	SHOWER
EW 5	INSTANTANEOUS WATER HEATER	ELECTRIC, 16.6 KW, 1 PH, 208 V, EEMAX EX1608-TC	CLOTHES WASHER
CP 1	CIRCULATION PUMP	POTABLE WATER, 3 GPM @ 10 FT. OF HEAD, 1/3 HP, 120 V, 60 HZ, 1 PH.	LEVEL 1 (WH CLOSET)
ET 1	EXPANSION TANK	POTABLE WATER, 8 GALLON TANK, 5 GALLON ACCEPTANCE VOLUME, 160 LBS OPERATING WEIGHT	LEVEL 1 (WH CLOSET)
GI 1	GREASE INTERCEPTOR	POLYETHYLENE GREASE INTERCEPTOR, 55 GPM, 52 LIQUID GALLONS CAPACITY, 249 GREASE POUNDS CAPACITY, SCHIER GB-50.	LEVEL B1
SP 1	SUMP PUMP	SUBMERSIBLE, 1 HP, 120V, WITH CONTROL, 10 GPM @ 60 FT HEAD.	LEVEL B3
CDP 1	CONDENSATE DRAIN PUMP	1/35 HP, 115V, SINGLE PHASE, 6 LBS OPER. WEIGHT, UL LISTED.	LEVEL B3

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03-06-15 CITY RESUBMITTAL
 11-11-14 CD PROGRESS
 10-01-14 DESIGN DEVELOPMENT
 08-20-14 SCHEMATIC DESIGN
 ISSUES:



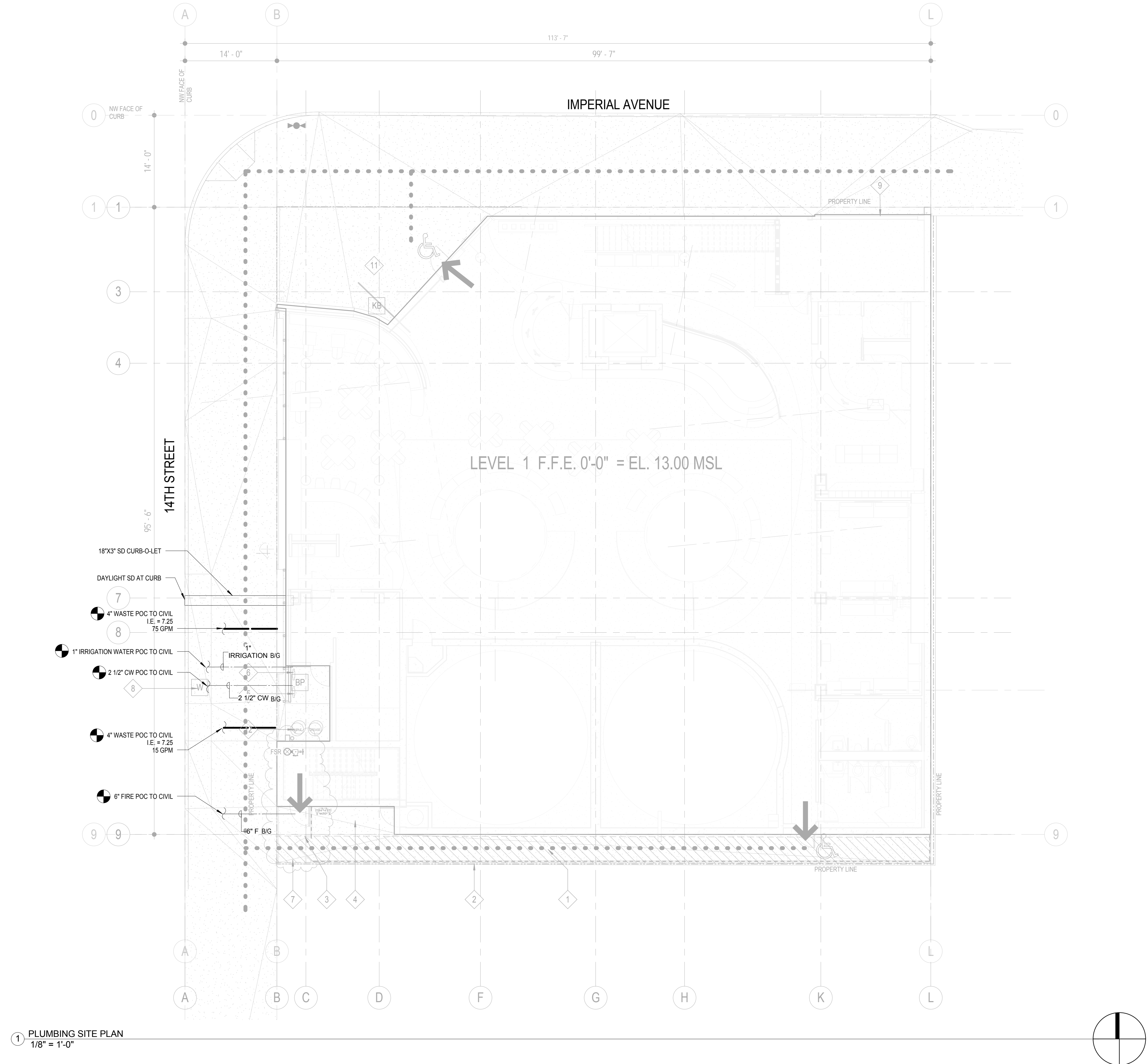
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PLUMBING SCHEDULES

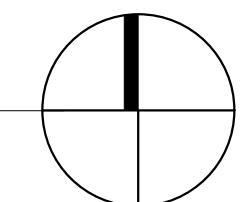
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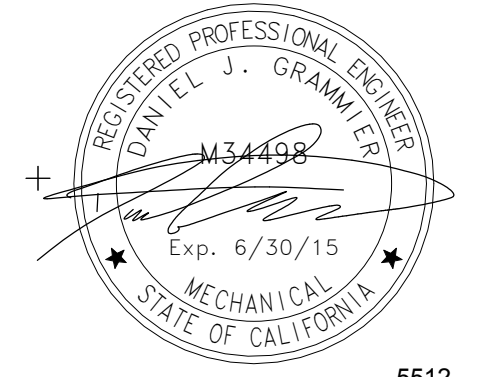
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1 PLUMBING SITE PLAN
1/8" = 1'-0"



03-06-15 CITY RESUBMITTAL
11-11-14 CD PROGRESS
10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:

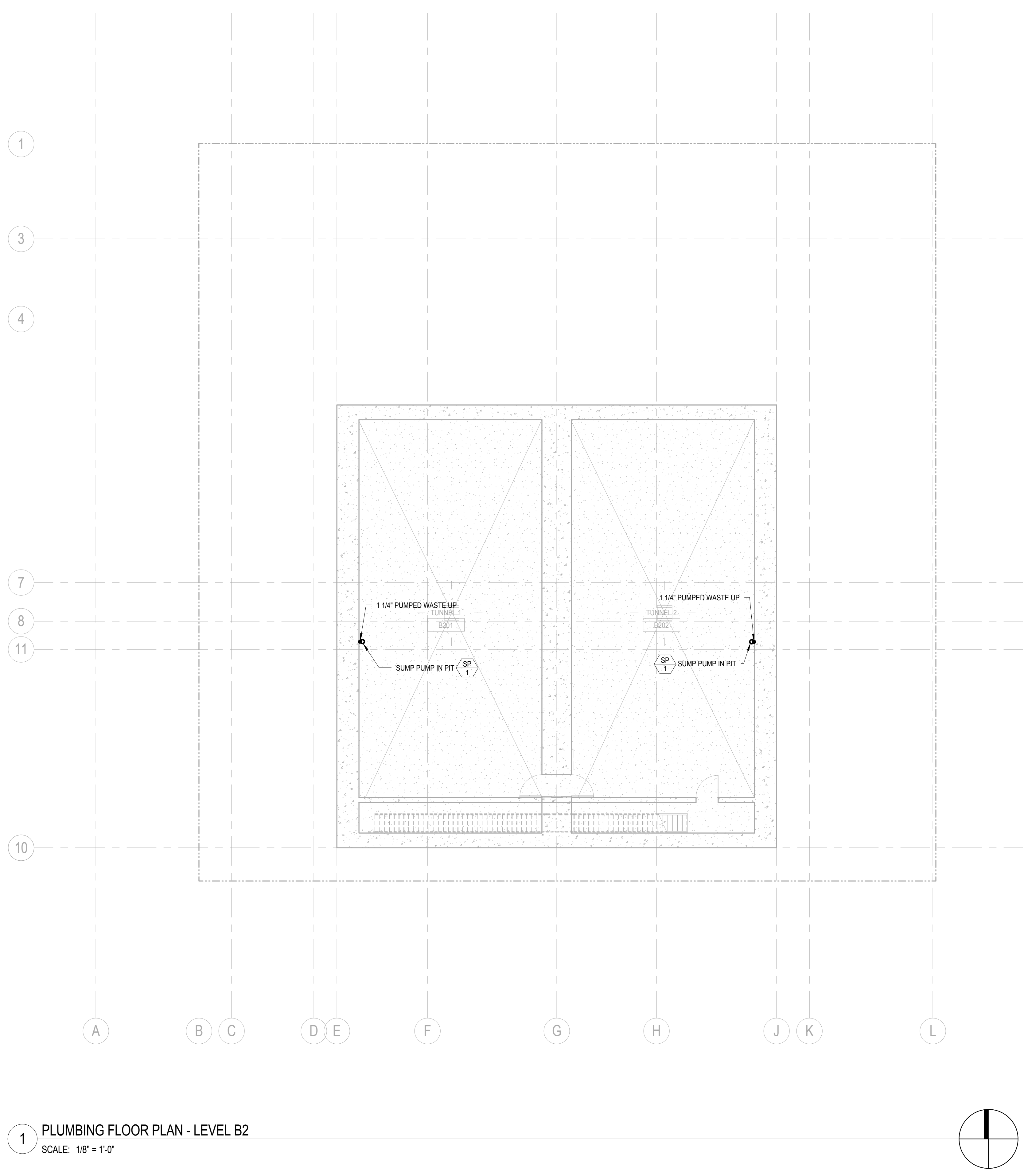


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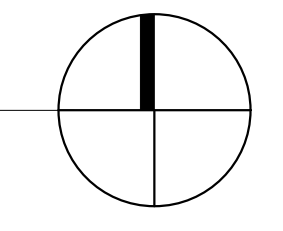
PLUMBING SITE PLAN

DRAWING NO:

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1 PLUMBING FLOOR PLAN - LEVEL B2
SCALE: 1/8" = 1'-0"

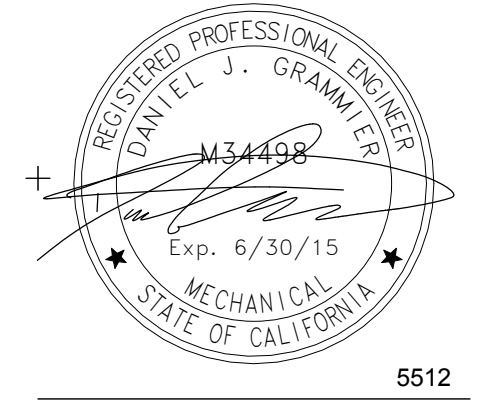


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03-06-15 CITY RESUBMITTAL
11-11-14 CD PROGRESS
10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:



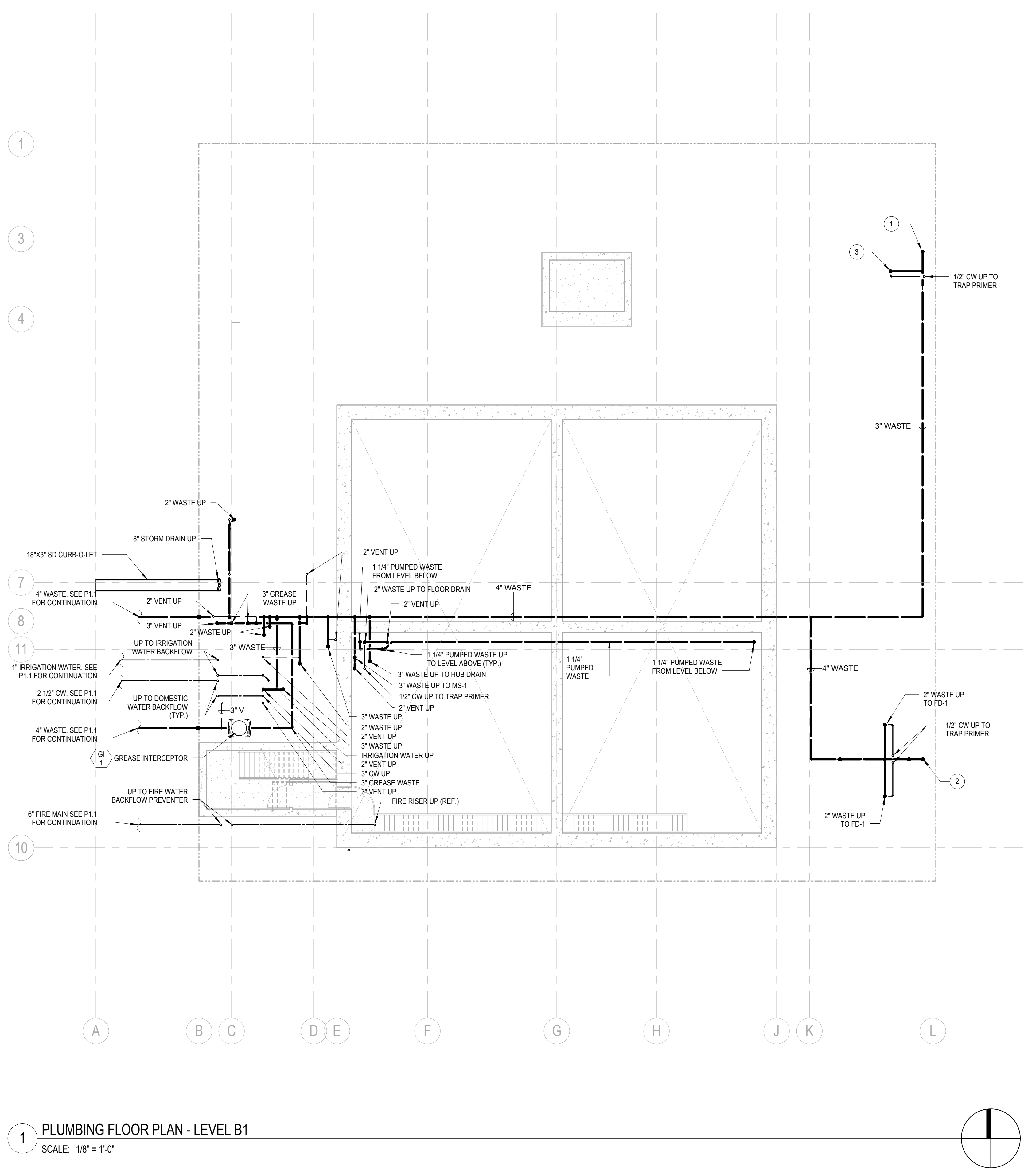
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FILE NAME:
VBMICentral5432.00_Arch-Central.rvt
DRAWN BY: CHECKED BY:
Author Checker
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4/21/2015 9:05:53 AM
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PLUMBING
FLOOR PLAN -
LEVEL B2

DRAWING NO:

P2.0.1

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1 PLUMBING FLOOR PLAN - LEVEL B1
SCALE: 1/8" = 1'-0"

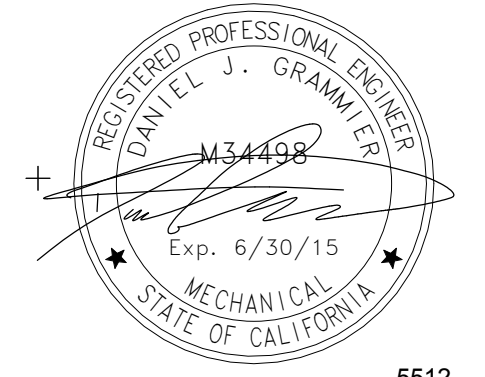
- # KEYNOTES
- 1 3" WASTE UP.
 - 2 4" WASTE UP.
 - 3 2" WASTE UP TO FLOOR DRAIN.



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08-20-14 SCHEMATIC DESIGN
ISSUES:



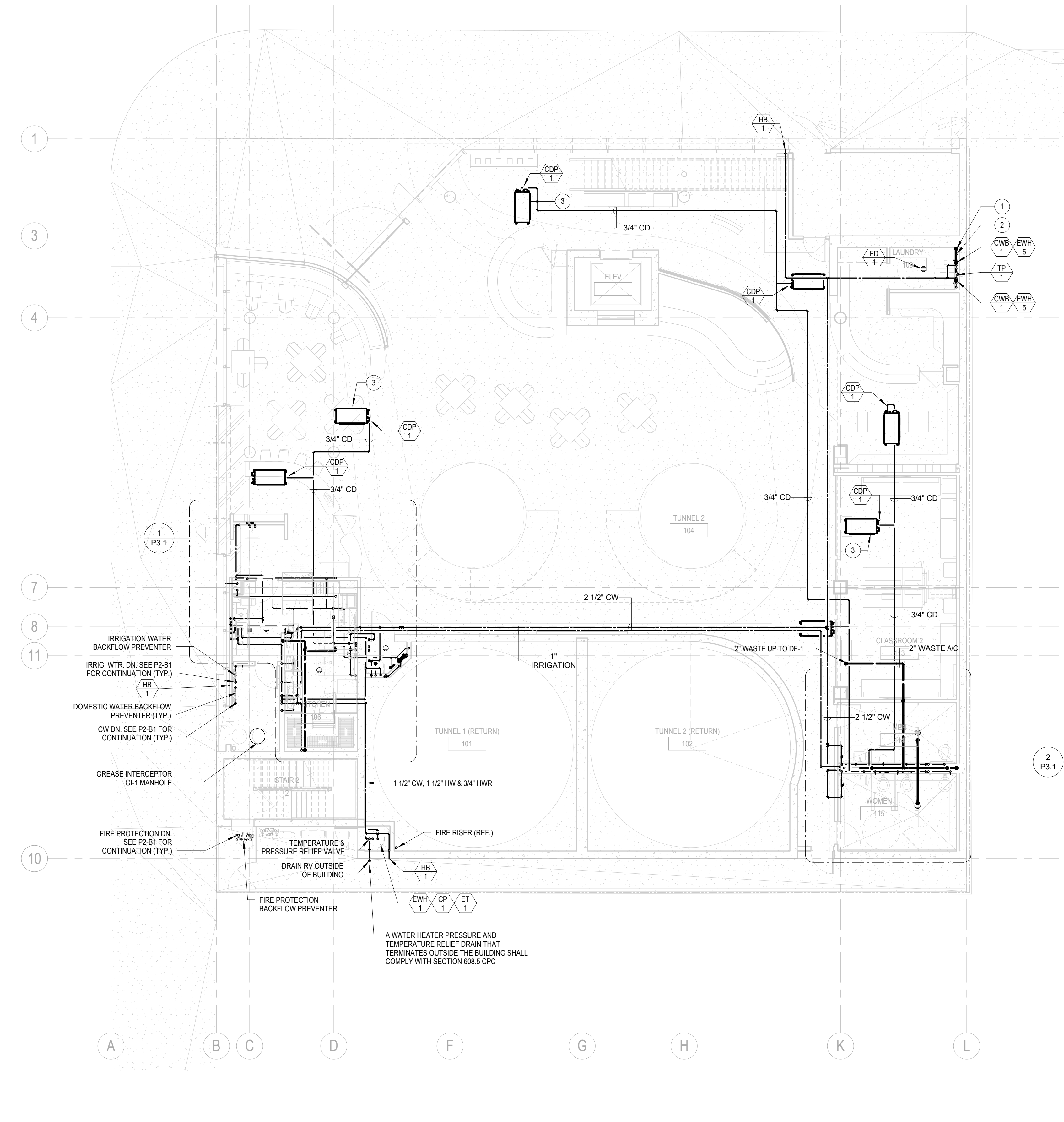
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FILE NAME:
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PLOT DATE:
4/21/2015 9:05:54 AM
TITLE:

PLUMBING
FLOOR PLAN -
LEVEL B1

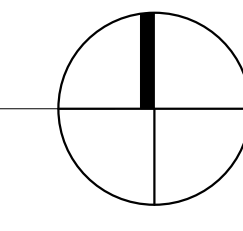
DRAWING NO:
P2.0.2

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1 PLUMBING FLOOR PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"



KEYNOTES

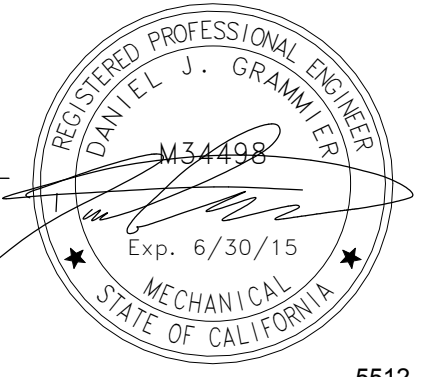
- 1 2" WASTE UP AND DOWN.
- 2 2" VENT UP.
- 3 MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS (TYP.)



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11-11-14 CD PROGRESS
10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:



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FILE NAME: VBIMCentral5432.00_Arch-Central.rvt
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TITLE:

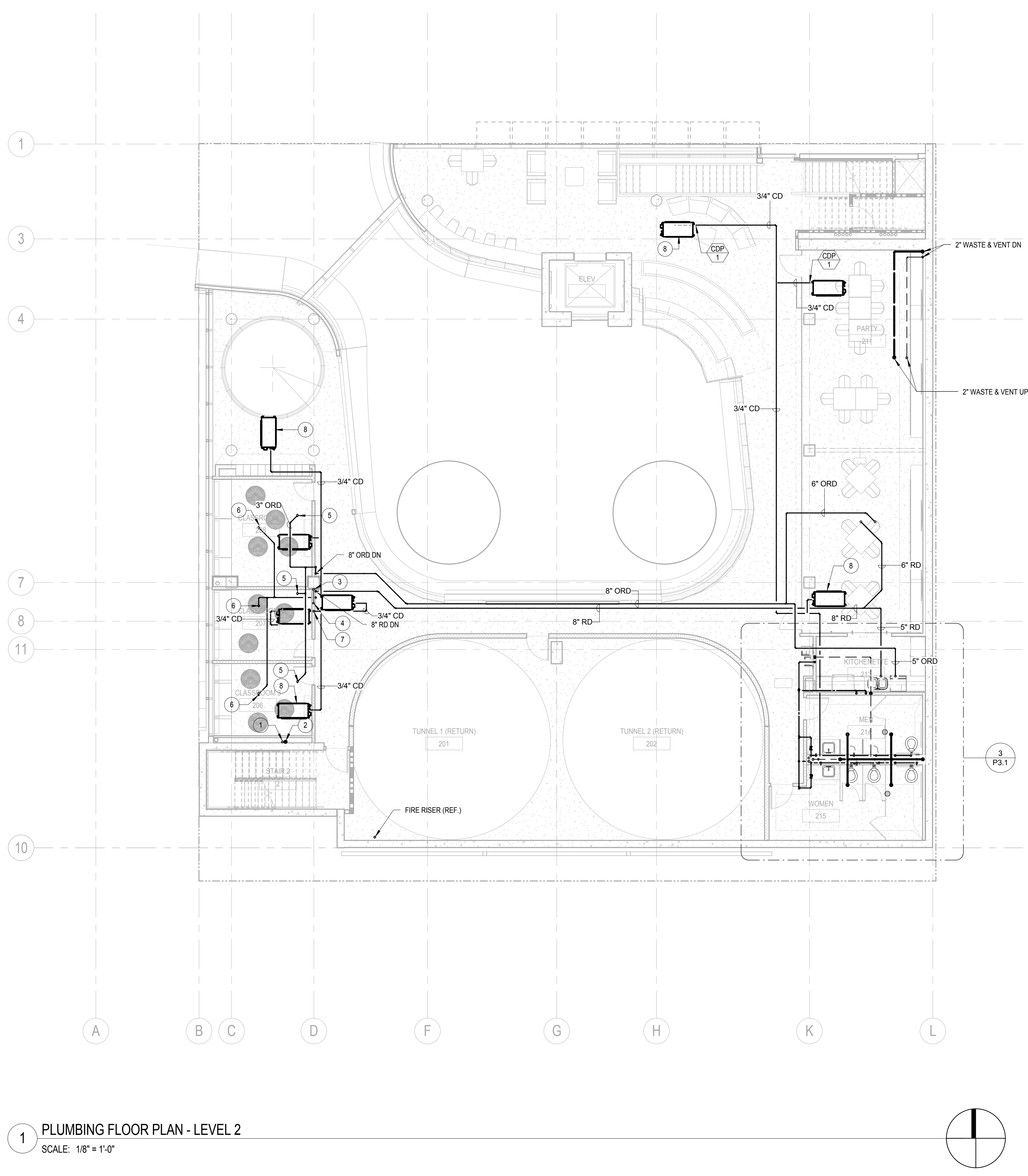
PLUMBING FLOOR PLAN - LEVEL 1

DRAWING NO:

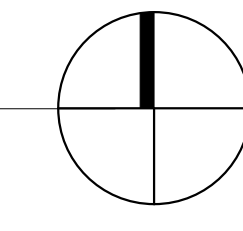
P2.1

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1 PLUMBING FLOOR PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"

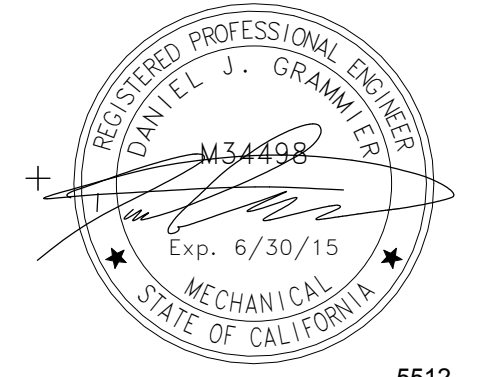


KEYNOTES

- 1 3/4" CW UP AND DOWN
- 2 2" WASTE UP AND DOWN
- 3 4" VENT UP
- 4 4" VENT DOWN
- 5 3" ORD UP
- 6 3" RD UP
- 7 1" CONDENSATE DRAIN DOWN
- 8 MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS (TYP.)



03-06-15 CITY RESUBMITTAL
11-11-14 CD PROGRESS
10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:

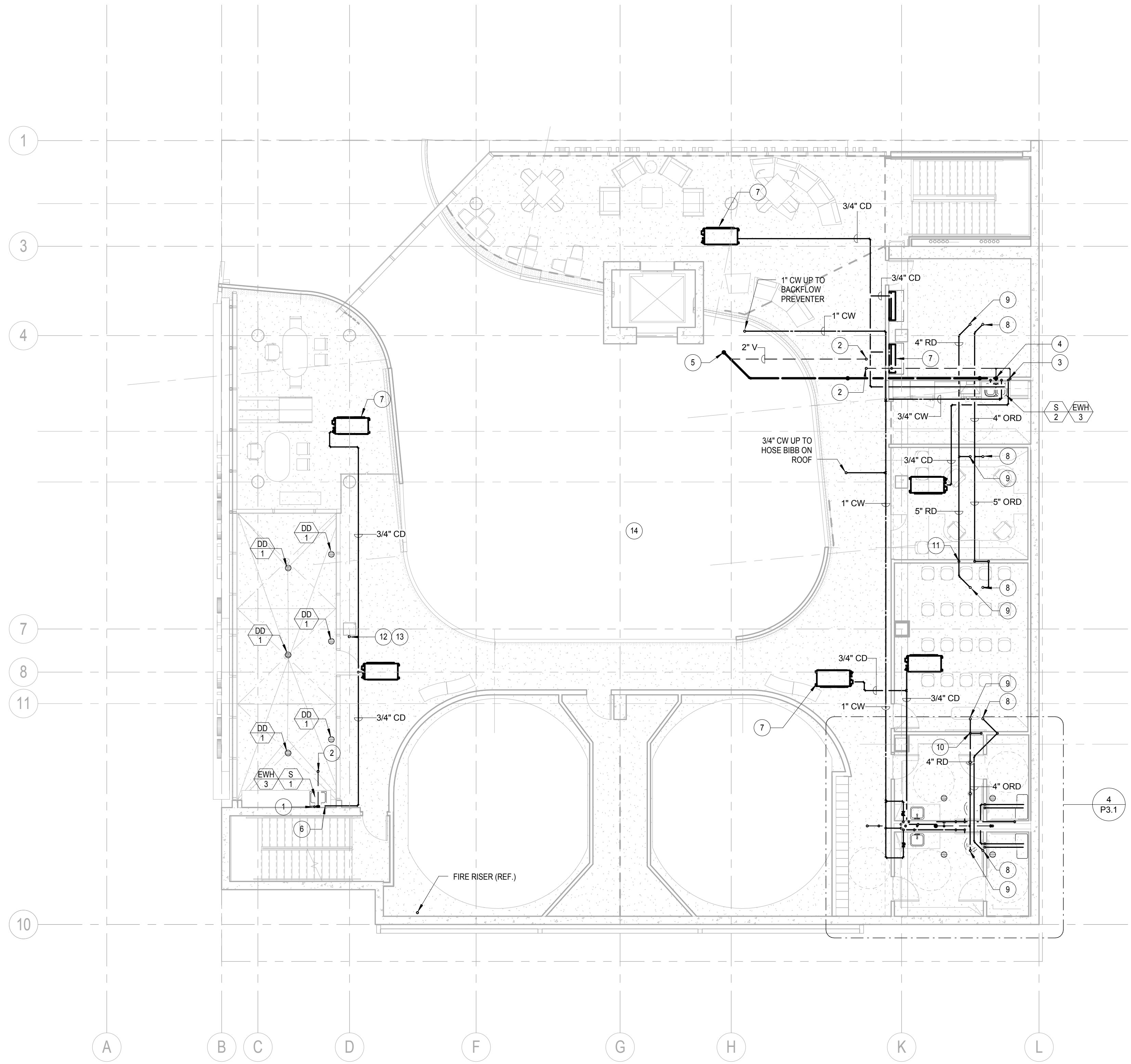


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PLUMBING
FLOOR PLAN -
LEVEL 2

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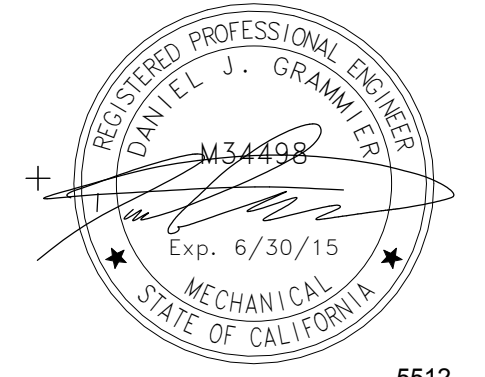
1 PLUMBING FLOOR PLAN - LEVEL 3
1/8" = 1'-0"

KEYNOTES

- 1 3/4" CW DOWN.
- 2 2" VENT UP.
- 3 2" VENT DOWN.
- 4 2" WASTE DOWN.
- 5 2" WASTE UP.
- 6 3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO LAVATORY'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 11/P5.1.
- 7 MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS (TYP.)
- 8 4" ORD UP.
- 9 4" RD UP.
- 10 5" RD DOWN.
- 11 6" RD DOWN.
- 12 4" VENT UP.
- 13 4" VENT DOWN.
- 14



03-06-15 CITY RESUBMITTAL
11-11-14 CD PROGRESS
10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:



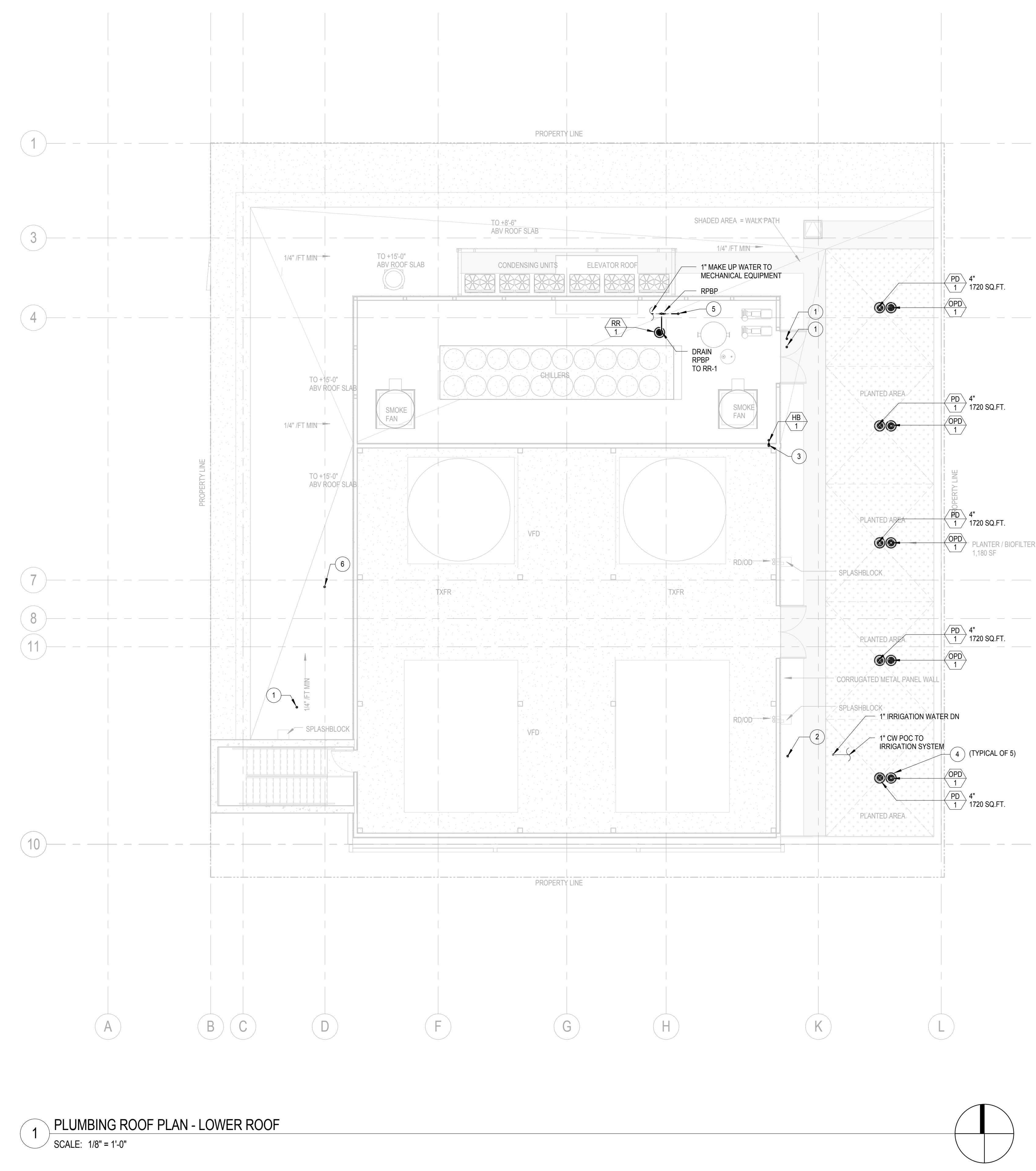
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PLOT DATE: 4/21/2015 9:06:04 AM
TITLE:

PLUMBING FLOOR PLAN - LEVEL 3

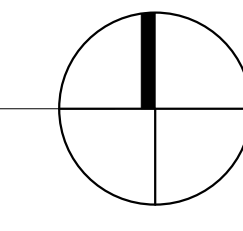
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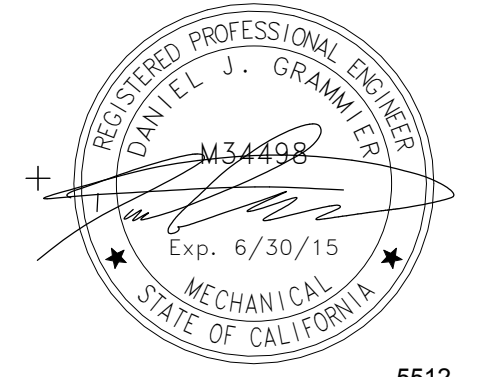
- # KEYNOTES
- 1 2" VTR.
 - 2 3" VTR.
 - 3 3/4" CW DOWN.
 - 4 SPECIAL PURPOSE PLANTER DRAIN. SEE DETAIL 2/P5.2.
 - 5 1" CW DOWN.
 - 6 4" VTR.



1 PLUMBING ROOF PLAN - LOWER ROOF
SCALE: 1/8" = 1'-0"



03-06-15 CITY RESUBMITTAL
11-11-14 CD PROGRESS
10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:

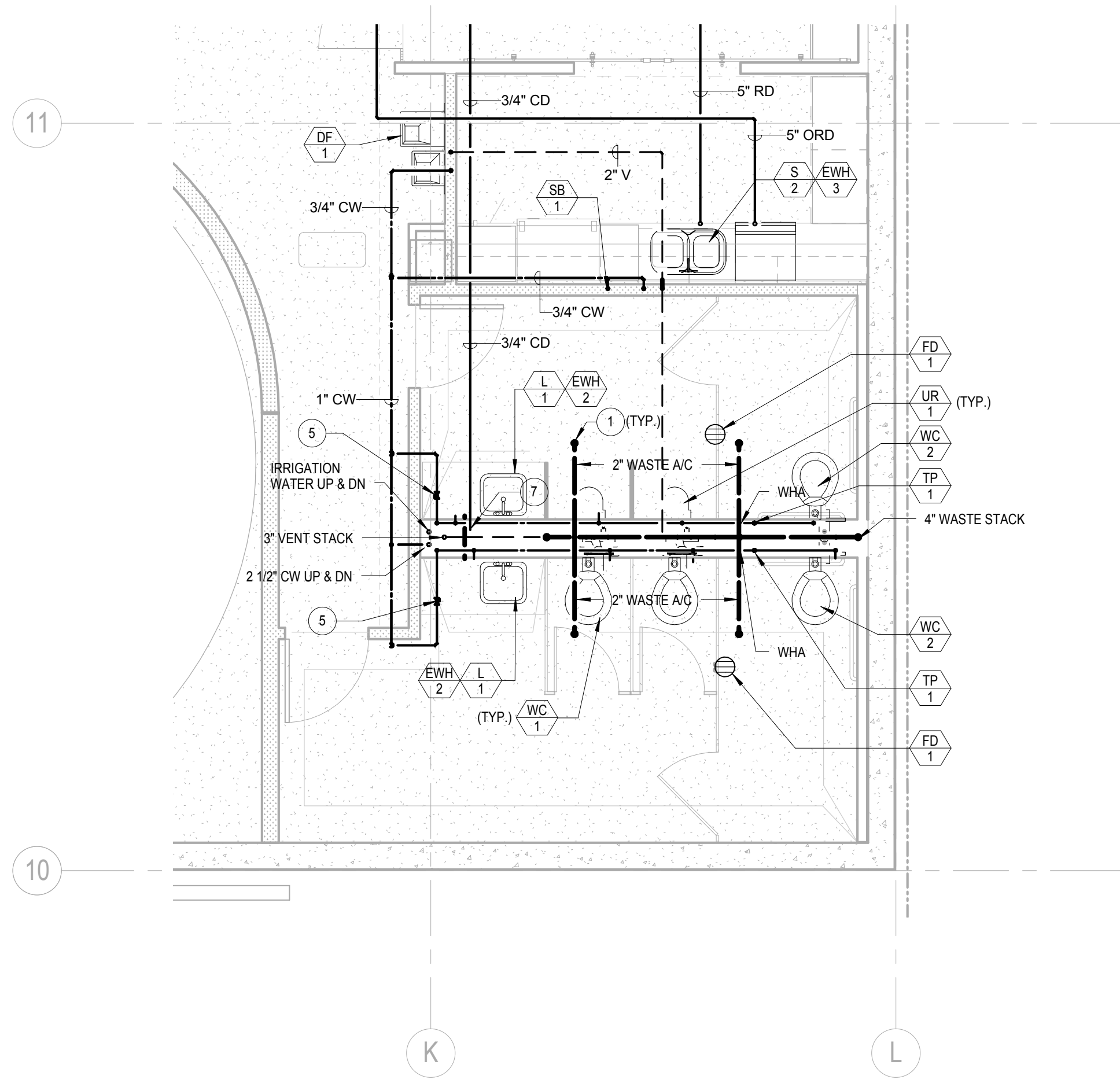


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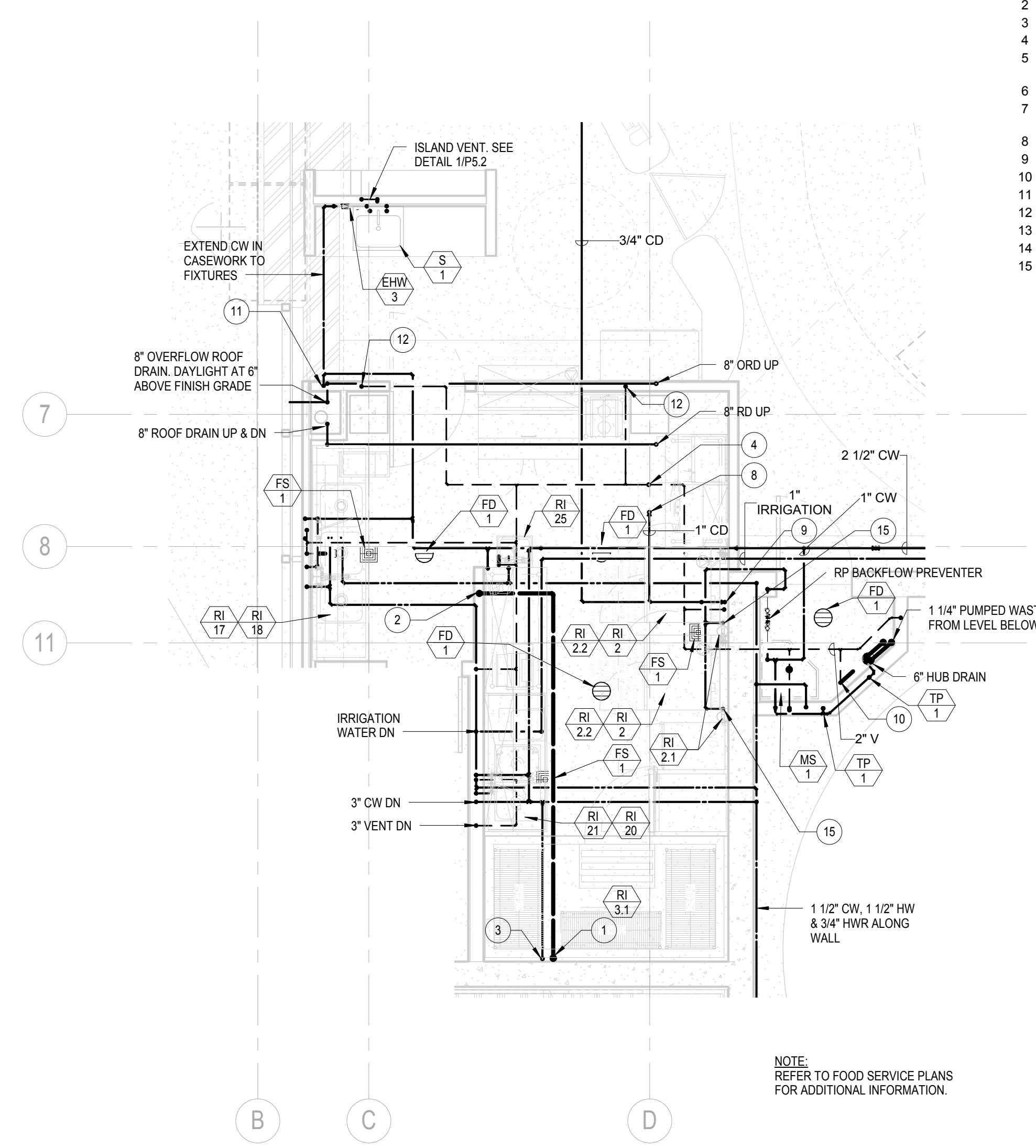
PLUMBING
ROOF PLAN -
LOWER ROOF

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3 RESTROOMS ENLARGED PLAN - LEVEL 2
1/4" = 1'-0"

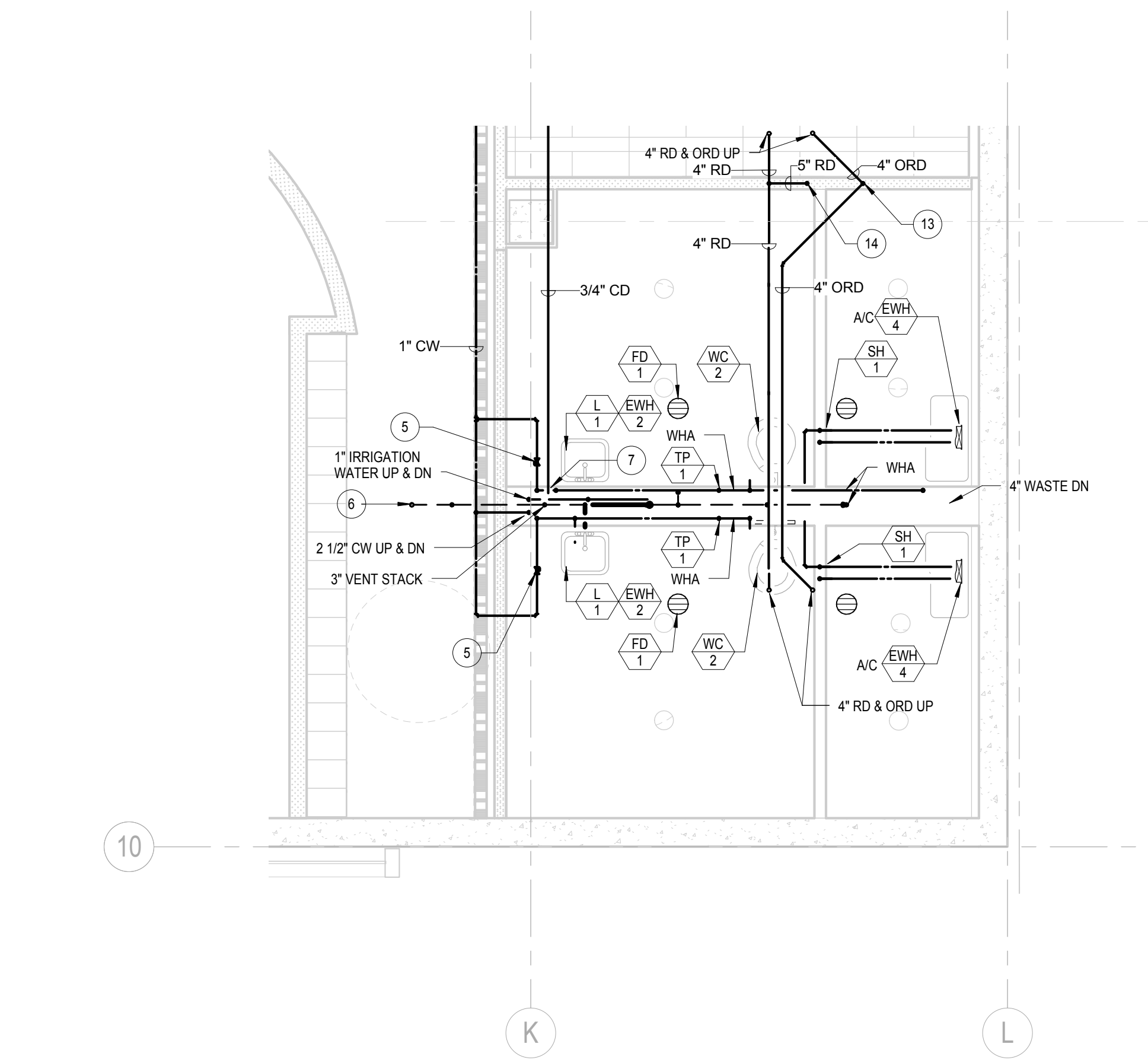


1 KITCHEN ENLARGED PLAN - LEVEL 1
1/4" = 1'-0"

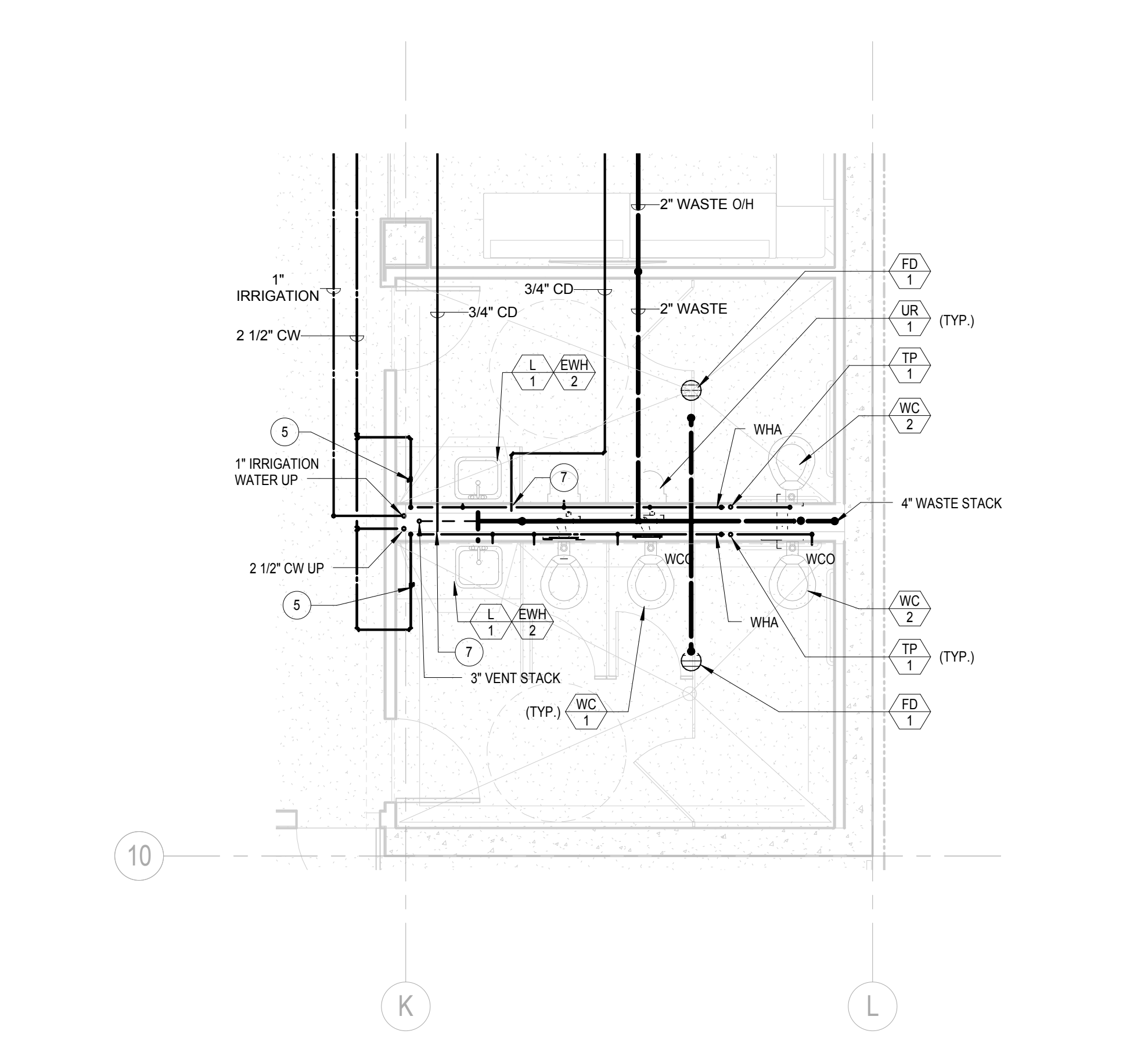
KEYNOTES

- 1 2" WASTE UP.
- 2 2" WASTE DOWN.
- 3 3/4" CW UP.
- 4 4" VENT UP.
- 5 CW SHUT-OFF VALVE ABOVE CEILING BEHIND CEILING ACCESS PANEL.
- 6 3" VENT UP.
- 7 3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO LAVATORY'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 11/P5.1.
- 8 1" CONDENSATE DRAIN UP.
- 9 1" CONDENSATE DRAIN INDIRECT TO RECEPTOR.
- 10 3" WASTE DOWN.
- 11 3/4" CW DOWN.
- 12 2" VENT DOWN.
- 13 5" ORD DOWN.
- 14 5" RD DOWN.
- 15 3/4" CW DN TO WATER FILTER.

NOTE:
REFER TO FOOD SERVICE PLANS
FOR ADDITIONAL INFORMATION.



4 RESTROOMS ENLARGED PLAN - LEVEL 3
1/4" = 1'-0"



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

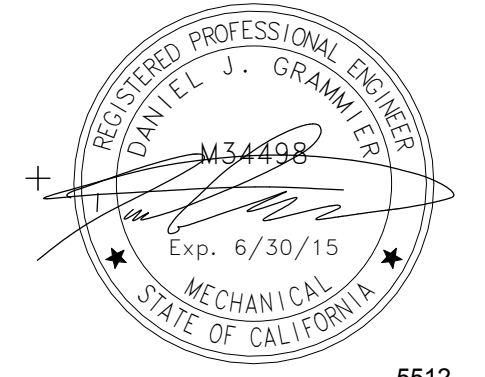
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03-06-15 CITY RESUBMITTAL
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10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:



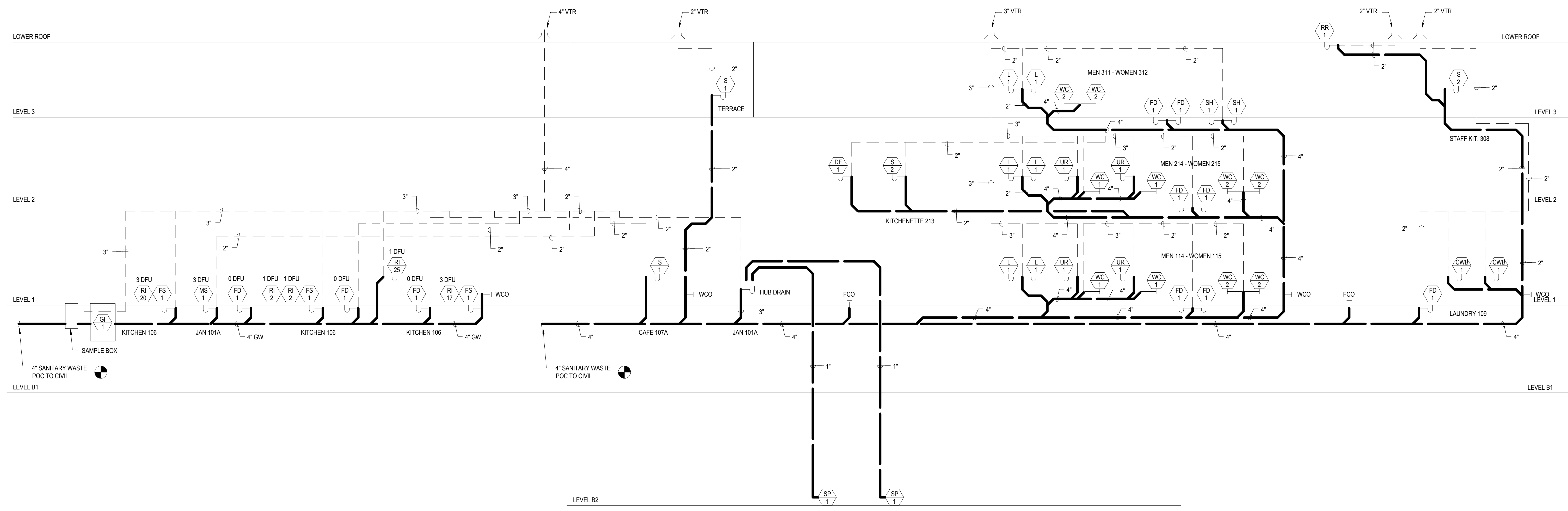
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PLUMBING ENLARGED PLANS

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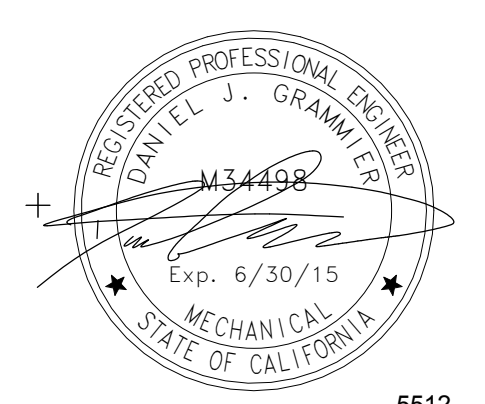


1 WASTE AND VENT RISER DIAGRAMS
NO SCALE

NOTES

- 1- EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
- 2- VENTS LESS THAN (6) INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SHALL BE INSTALLED WITH APPROVED DRAINAGE FITTINGS, MATERIAL AND GRADE TO THE DRAIN.

03-06-15 CITY RESUBMITTAL
11-11-14 CD PROGRESS
10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:

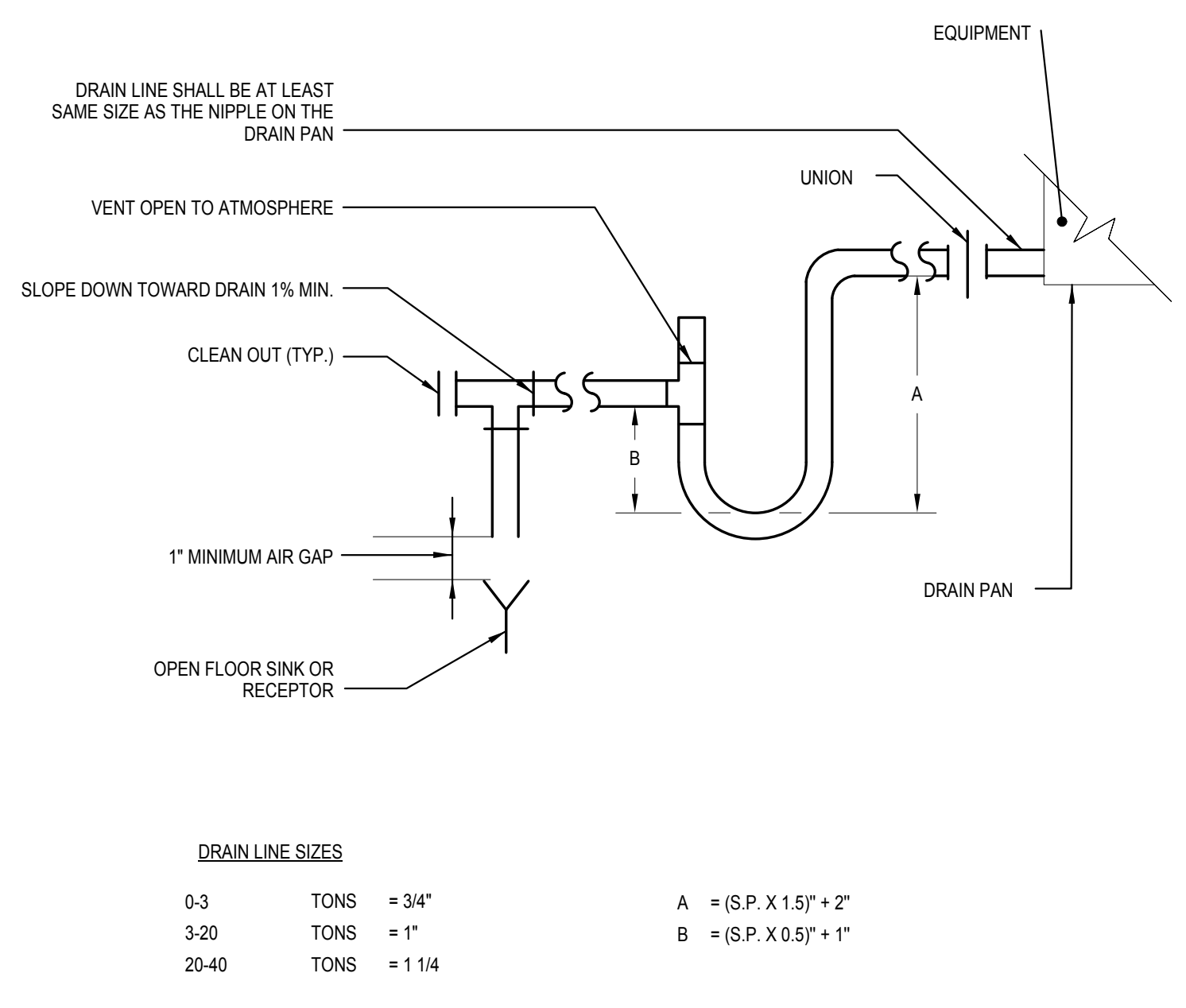


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**PLUMBING
RISER
DIAGRAMS**

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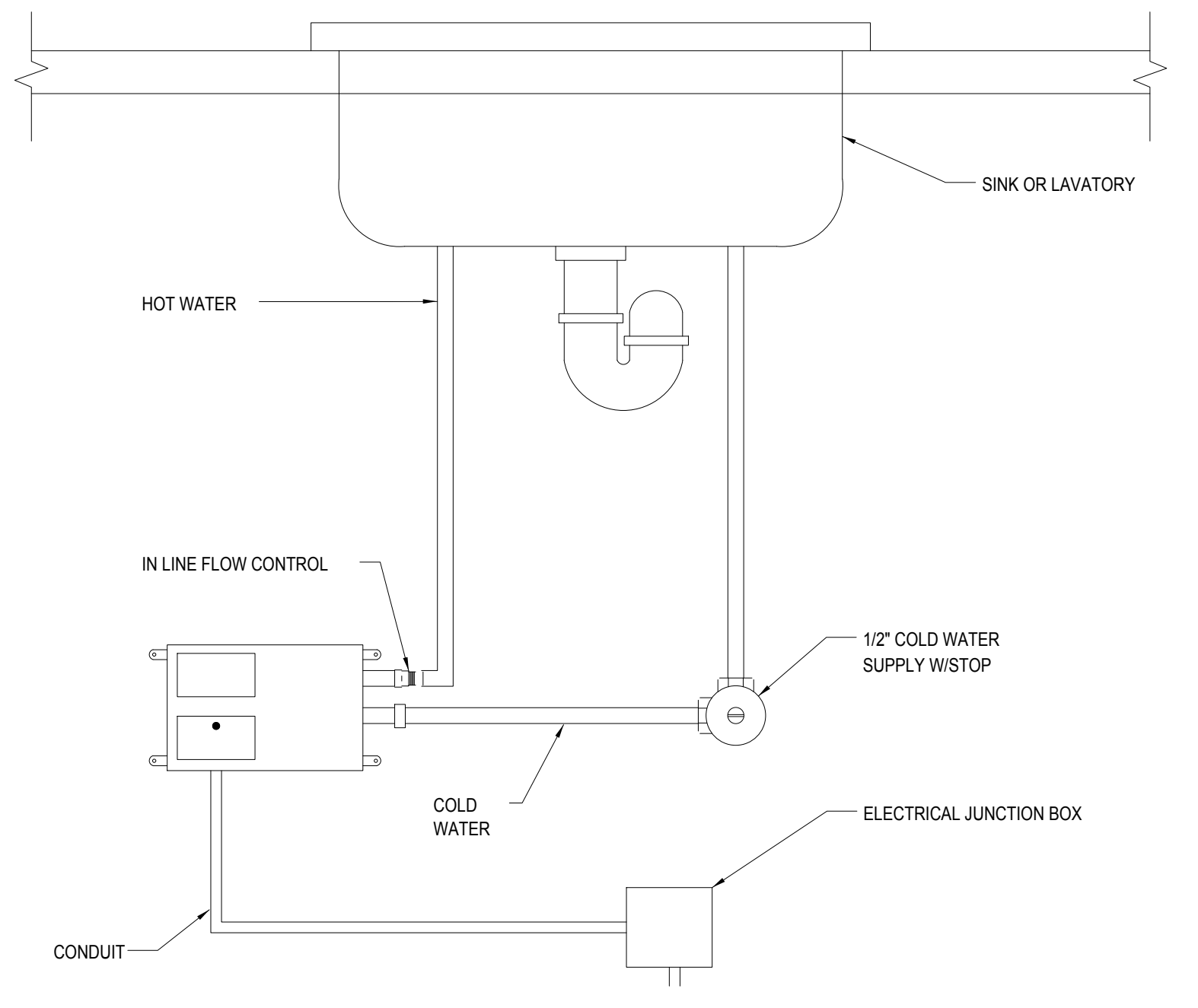


DRAIN LINE SIZES

0-3 TONS	= 3/4"	A = (S.P. X 1.5) + 2"
3-20 TONS	= 1"	B = (S.P. X 0.5) + 1"
20-40 TONS	= 1 1/4"	

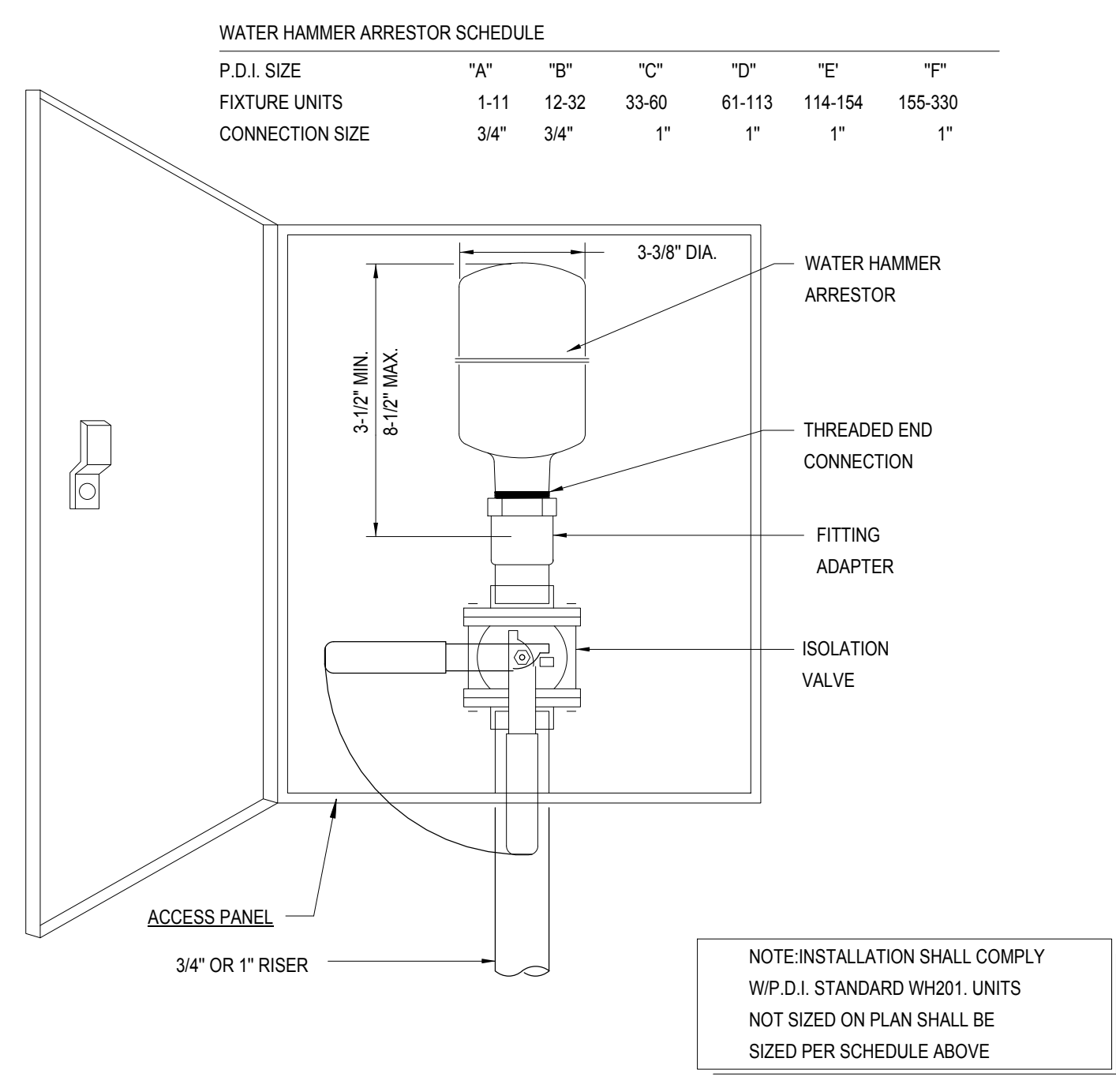
TYPICAL DRAIN DETAIL
NO SCALE

10
P5.1



TANKLESS ELECTRIC WATER HEATER DETAIL
NO SCALE

7
P5.1



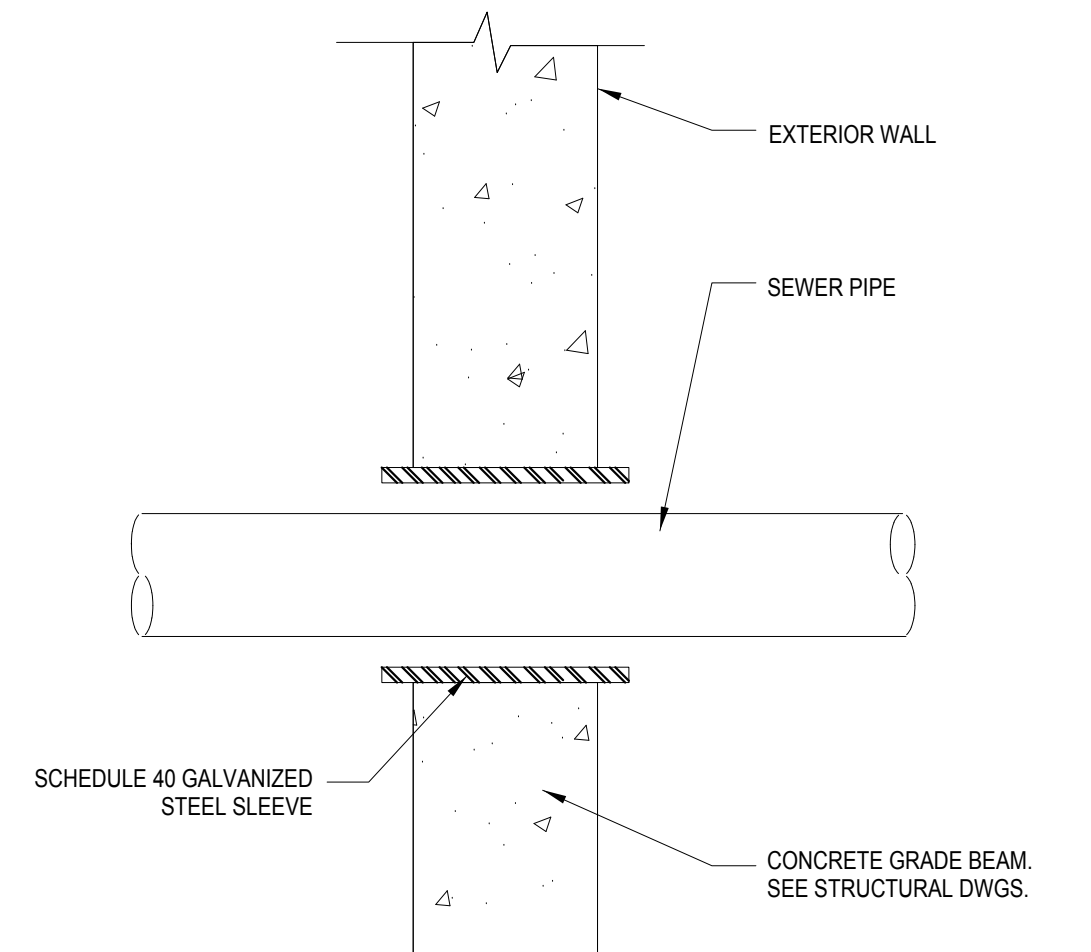
WATER HAMMER ARRESTOR SCHEDULE

P.D.I. SIZE	"A"	"B"	"C"	"D"	"E"	"F"
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
CONNECTION SIZE	3/4"	3/4"	1"	1"	1"	1"

NOTE: INSTALLATION SHALL COMPLY WITH I.P.S. STANDARD WH201. UNITS NOT SIZED ON PLAN SHALL BE SIZED PER SCHEDULE ABOVE

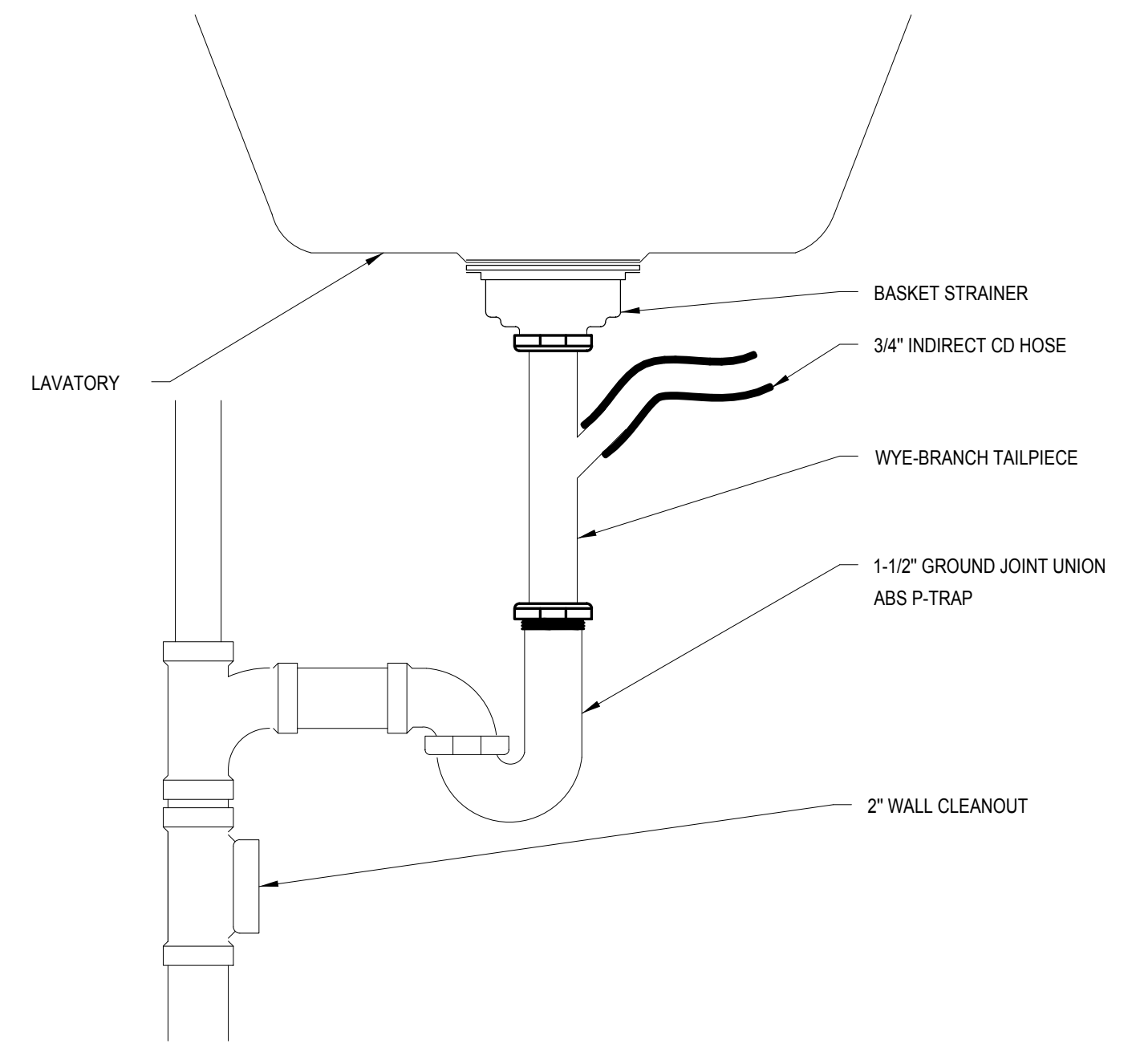
WATER HAMMER ARRESTOR DETAIL
NO SCALE

4
P5.1



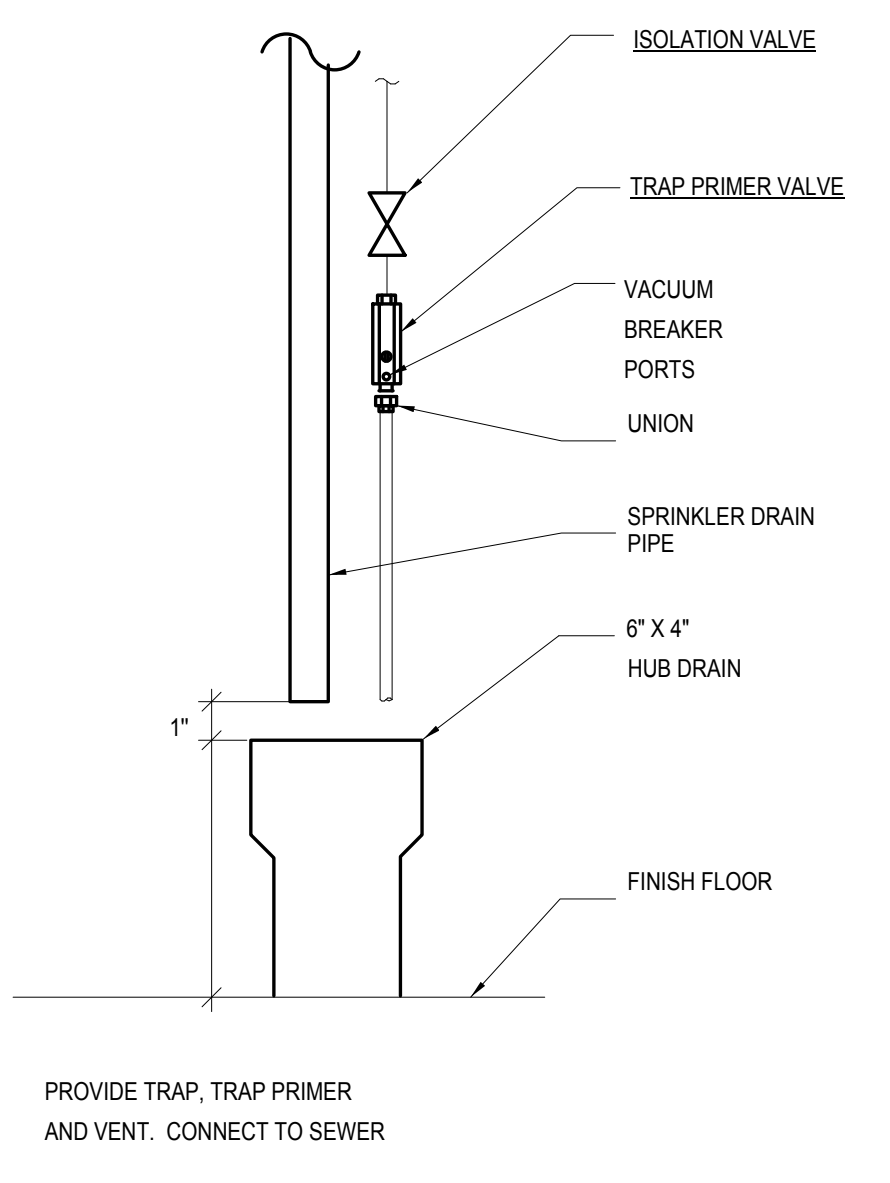
PIPE THRU CONCRETE WALL DETAIL
SCALE: NONE

1
P5.1



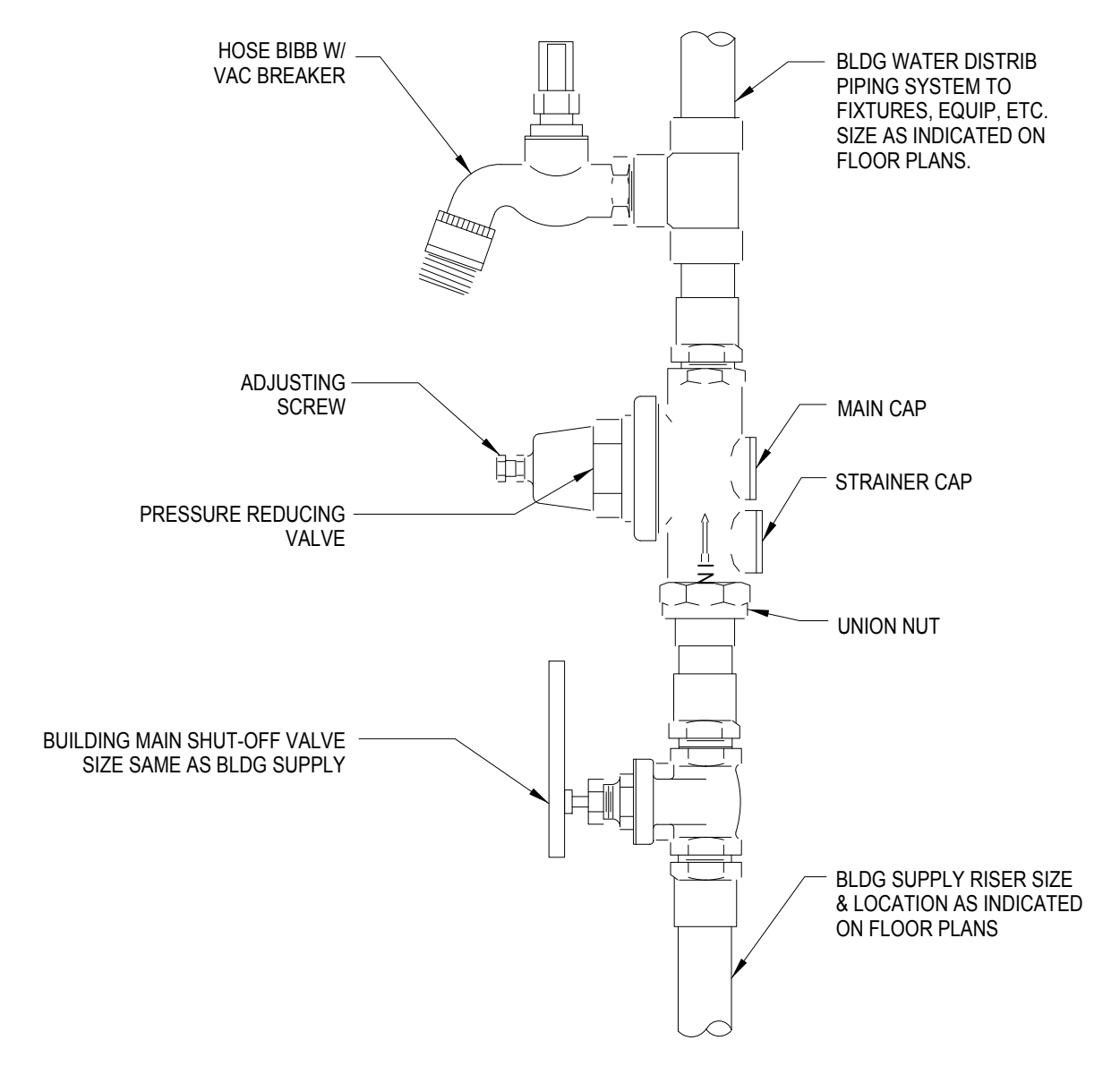
INDIRECT CONDENSATE WASTE CONNECTION
NO SCALE

11
P5.1



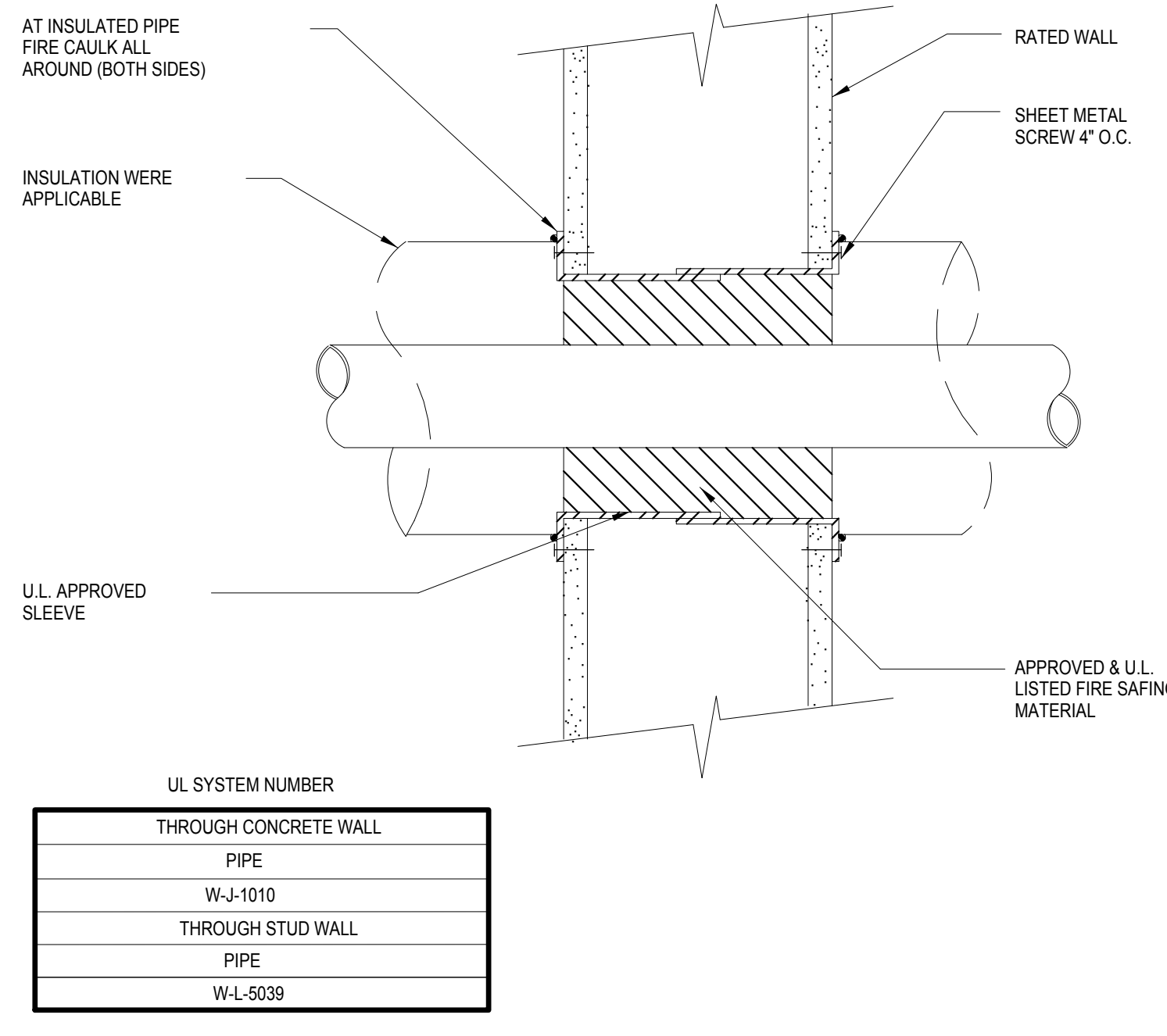
HUB DRAIN
NO SCALE

8
P5.1



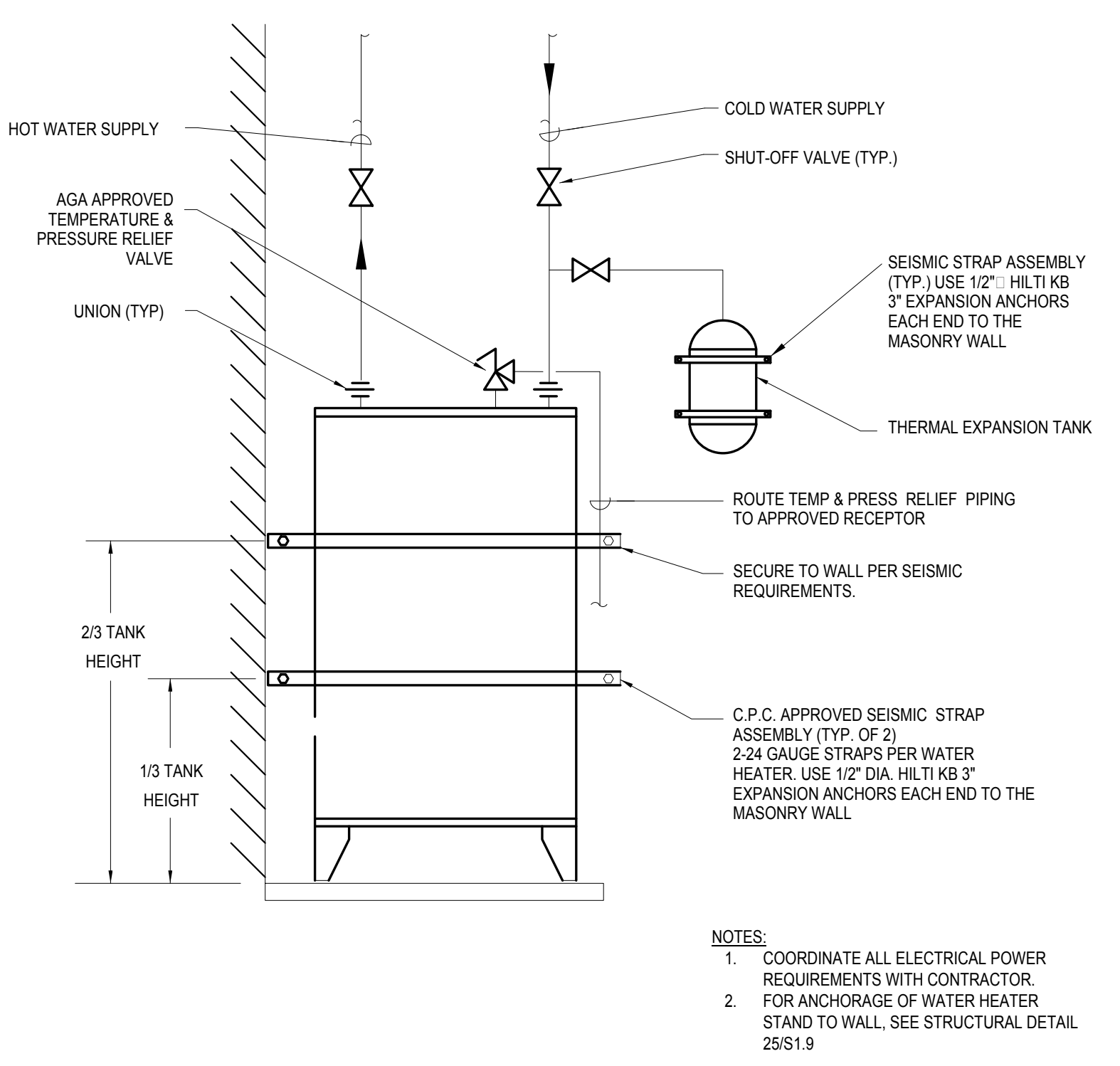
BUILDING MAIN WATER SHUT-OFF VALVE ASSEMBLY DETAIL
NO SCALE

5
P5.1



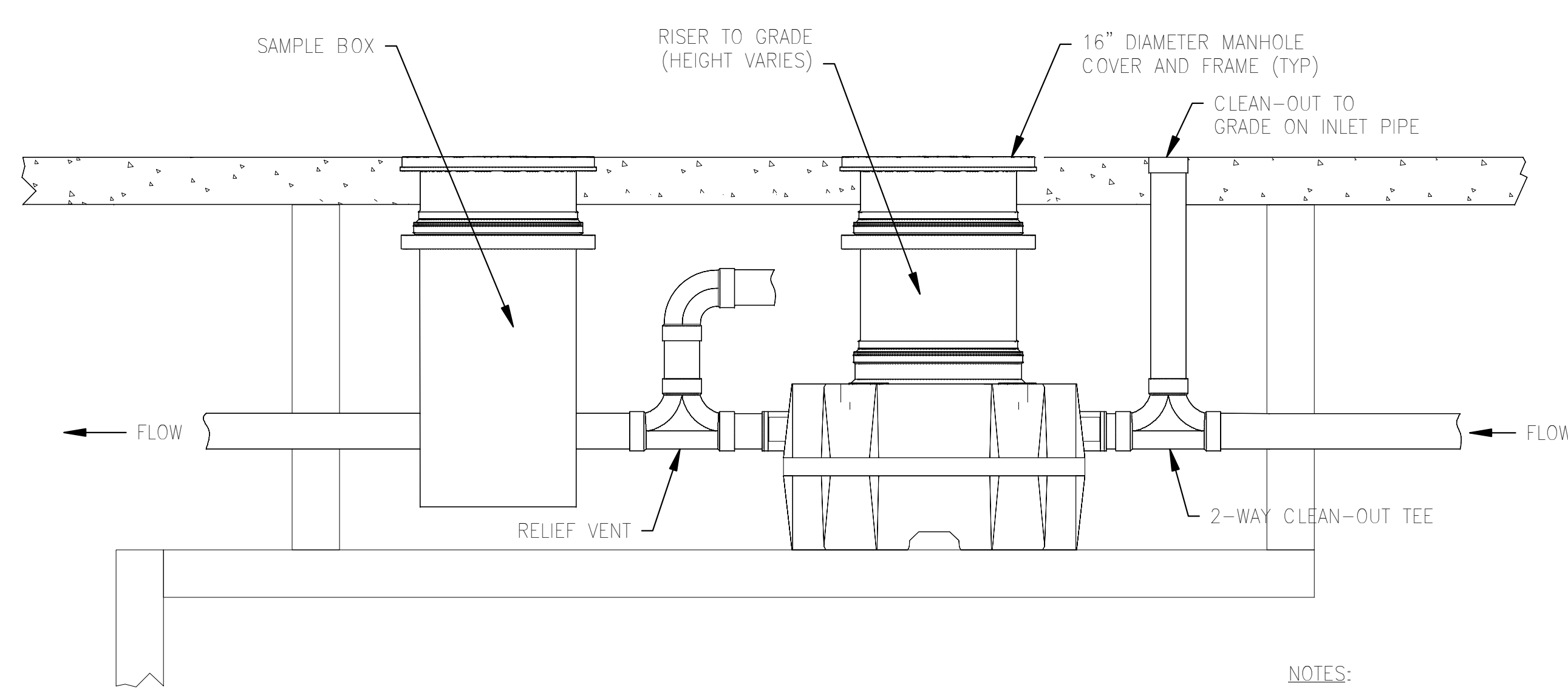
PIPE THRU FIRE WALL
NO SCALE

2
P5.1



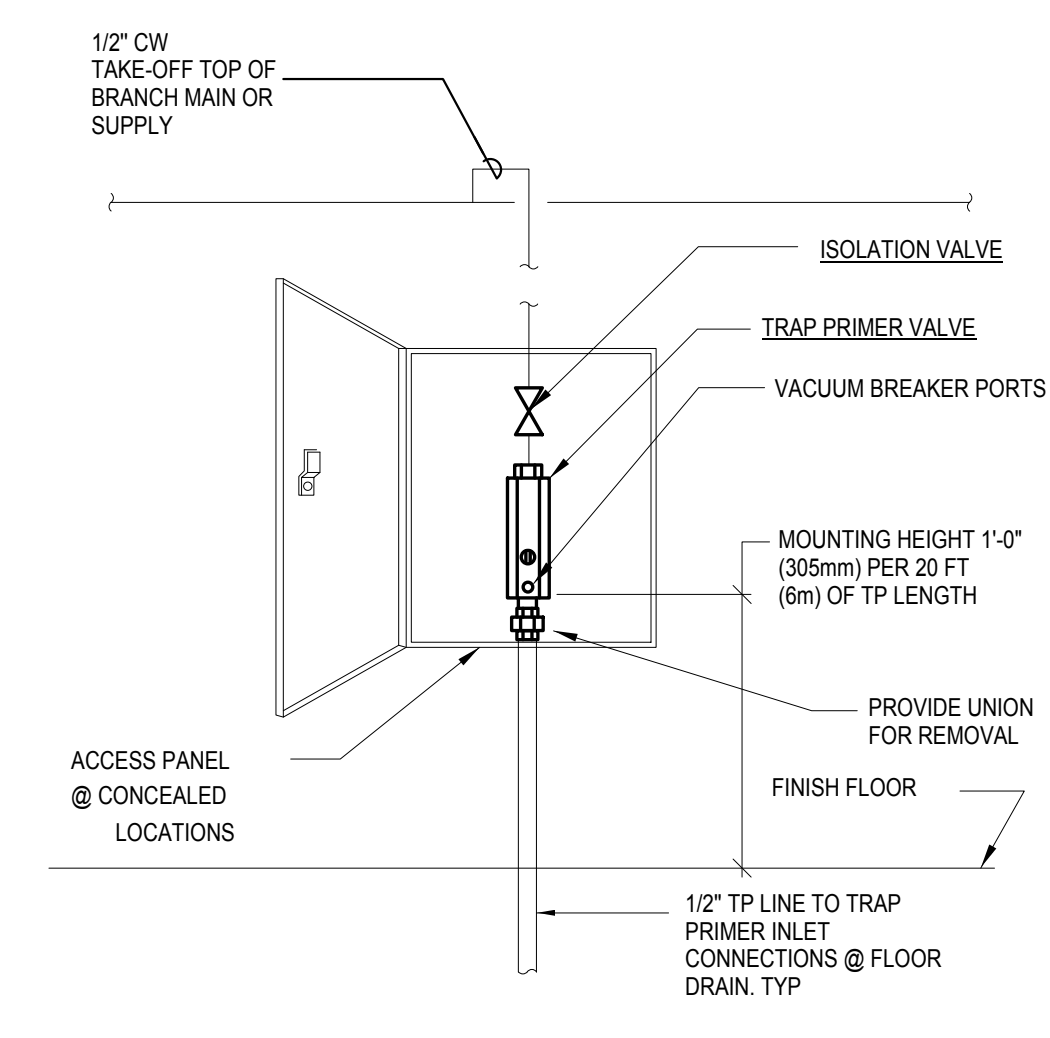
ELECTRIC WATER HEATER
NO SCALE

11
P5.1



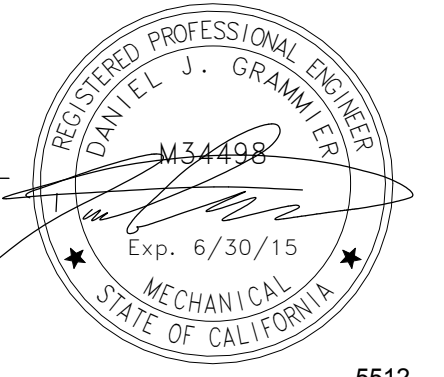
GREASE INTERCEPTOR DETAIL
SCALE: NONE

6
P5.1

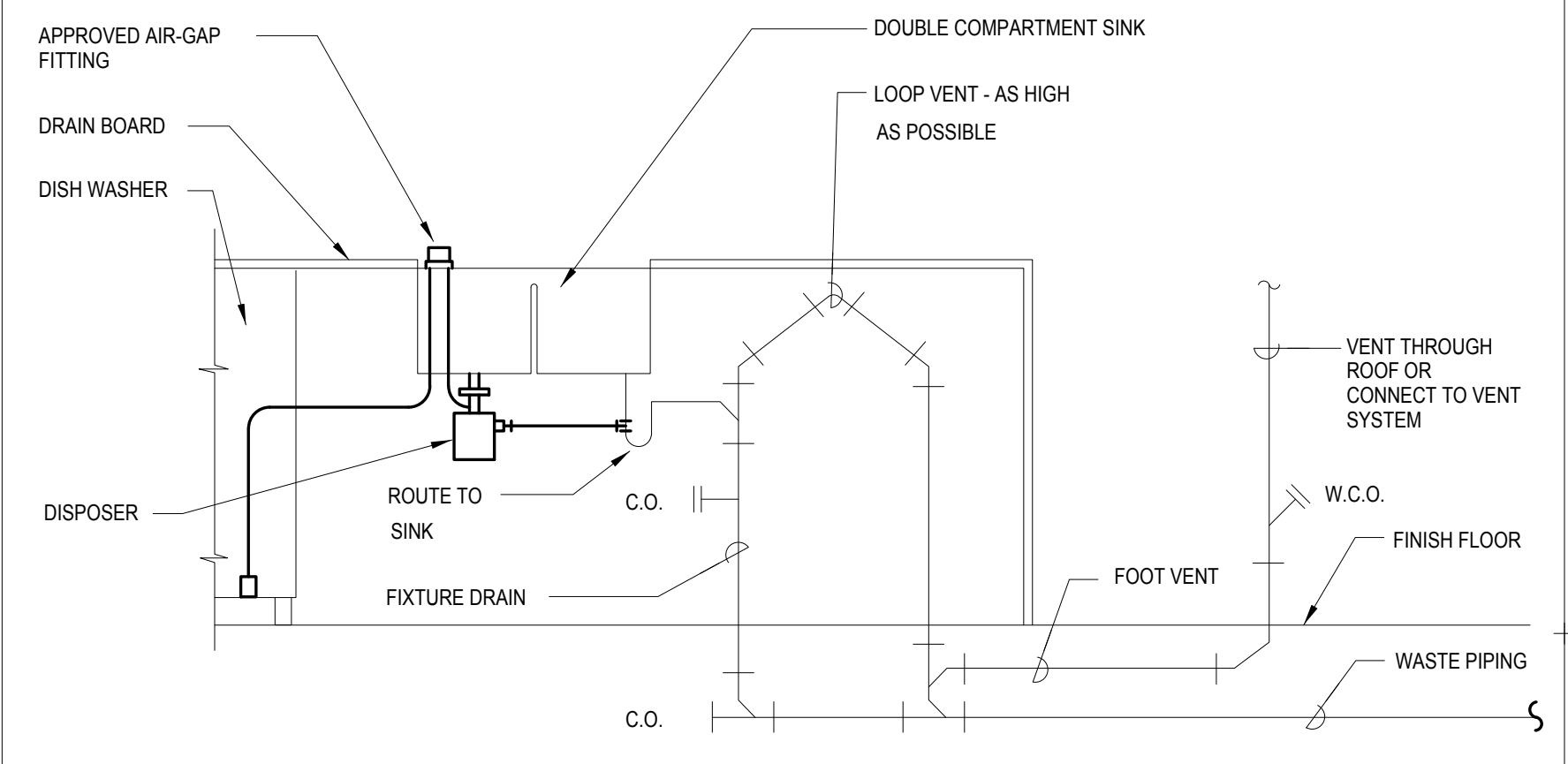


TRAP PRIMER WITH ACCESS PANEL
NO SCALE

3
P5.1



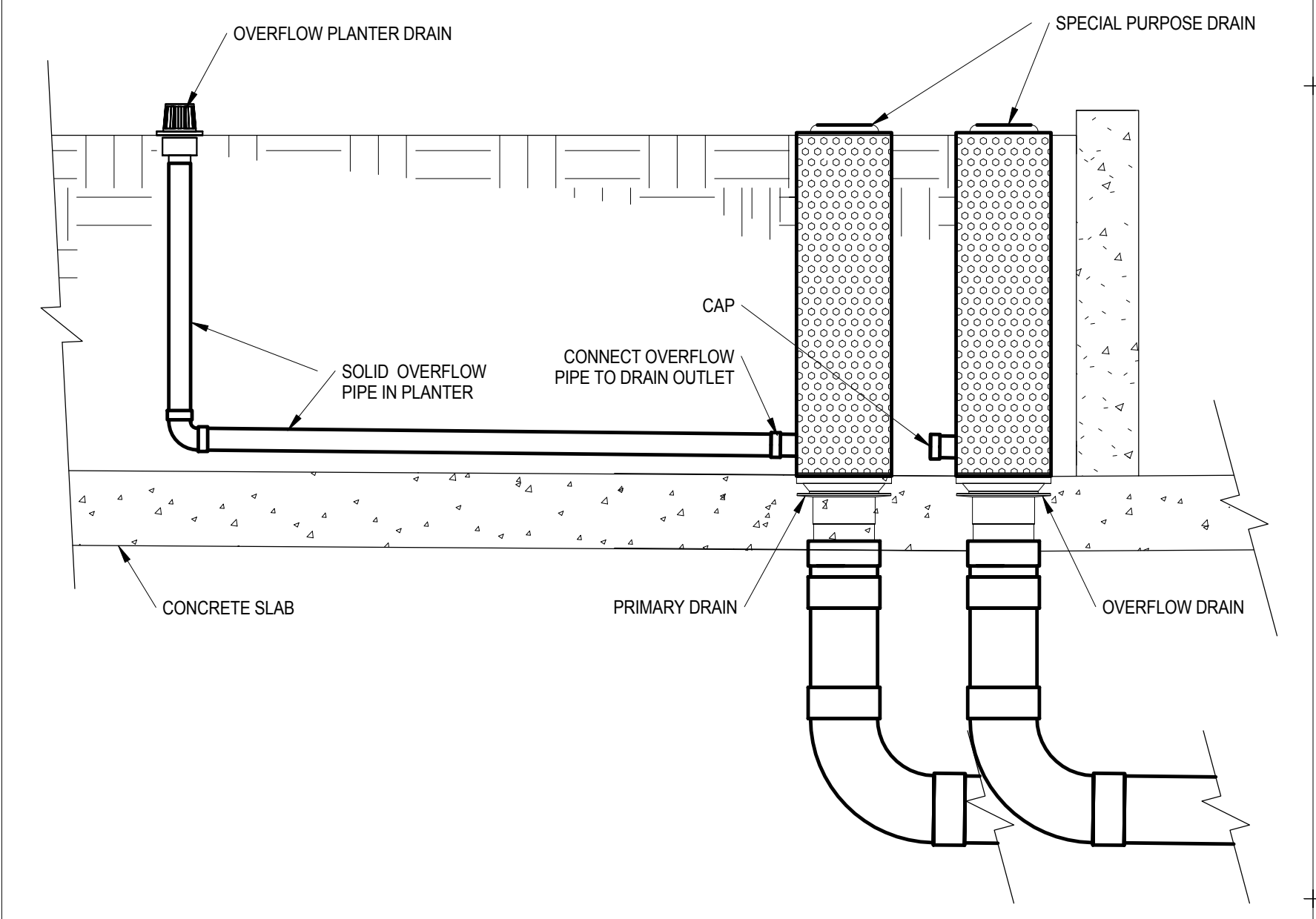
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ISLAND VENT

SCALE: NONE

1
PS.2

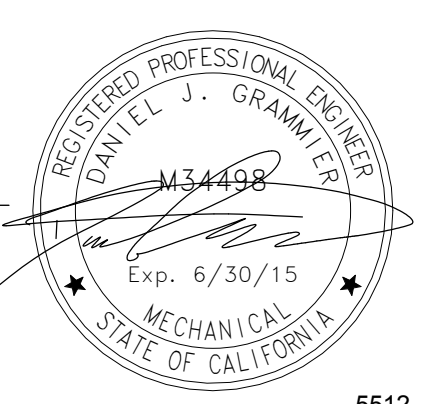


SPECIAL PURPOSE PLANTER DRAIN

SCALE: NONE

2
PS.2

03-06-15 CITY RESUBMITTAL
11-11-14 CD PROGRESS
10-01-14 DESIGN DEVELOPMENT
08-20-14 SCHEMATIC DESIGN
ISSUES:



PROJECT NO:
5432.00
FILE NAME:
IBIMCentral\5432.00_Arch-Central.rvt
DRAWN BY: Author
CHECKED BY: Checker
PLOT DATE:
4/21/2015 9:08:11 AM
TITLE:

**PLUMBING
DETAILS**

DRAWING NO:

P5.2

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