PLUMBING F	IXTUR	E LOAD	CALCUL	ATION	
DECEDIPTION	OTY	SANI	TARY FU	WATER FU	
DESCRIPTION	QTY	EACH	TOTAL	EACH	TOTAL
OSE BIBBS	11	0	0	*	12.50
LOOR DRAINS	20	****	0	-	0.00
UB DRAIN	1	3	6	0	0.00
IATER CLOSET	57	4	228	**	476.25
AVATORIES	51	2	102	1	51.00
RINALS	18	2	36	***	30.5
IOP SINK	3	3	9	3	9.00
HOWER	19	2	38	2	38.00
INK	43	2	86	2	86.00
IASHING MACHINE	2	4	8	4	8.00
OTAL			513		711.25

LEED documentation, low flow is used 3/4 of time. This reduces the total use by 1/3. The fixture unit count is therefore being reduced by 1/4.

*** Values based upon Table 6-7 of UPC. Urinals proposed use 1/4 gpf and therefore the values in table have been multiplied by 1/4. *** All drains are emaergency and therefore have a fixture unit value of 0.

DECCRIPTION		SANI ⁻	TARY FU	MA1	TER FU
DESCRIPTION	QTY	EACH	TOTAL	EACH	TOTAL
BIBBS	11	0	0	*	12.50
R DRAINS	20	****	0	-	0.00
DRAIN	1	3	6	0	0.00
ER CLOSET	57	4	228	**	476.25
ATORIES	51	2	102	1	51.00
ALS	18	2	36	***	30.5
SINK	3	3	9	3	9.00
NER	19	2	38	2	38.00
	43	2	86	2	86.00
HING MACHINE	2	4	8	4	8.00
AL .			513		711.25

TAG	ITEM	REMARKS
WC-1	WATER CLOSET	TOTO CT708 WALL HUNG FLUSHOMETER TOILET WITH SLOAN WES-111 DUAL FLUSH FLUSHOMETER & BEMIS 1955C SEAT
WC-2	WATER CLOSET, ADA ACCESSIBLE	SAME AS WC-1, MOUNTED AT ADA HEIGHT
UR-1	URINAL	VitrA 5231 URINAL WITH SLOAN ROYAL 18625 ULTRA LOW FLOW FLUSHOMETER
UR-2	URINAL, ADA ACCESSIBLE	SAME AS UR-1, MOUNTED AT ADA HEIGHT
L-1	LAVATORY, ADA ACCESSIBLE	TOTO LT587 COUNTER MOUNTED LAVATORY WITH TOTO TEL5GSC-10 LOW FLOW FAUCET AND TRUEBRO LAV GUARD 2 E-Z SERIES UNDERSINK PROTECTION, 1/4 TURN ANGLE STOP COMPRESSION FITTING
L-2	LAVATORY, ADA ACCESSIBLE	TOTO LT307, WALL HUNG LAVATORY WITH TOTO TEL5GSC-10 LOW FLOW FAUCET AND TRUEBRO LAV GUARD 2 E-Z SERIES UNDERSINK PROTECTION, 1/4 TURN ANGLE STOP COMPRESSION FITTING
SH-1	SHOWER	SYMMONS 96-1-X TEMPTROL SHOWER SYSTEM WITH LOW FLOW AERATOR
SH-2 \$ SH-3	SHOWER, ADA ACCESSIBLE	SYMMONS S-96-300-B30-L-V-X TEMPTROL SHOWER VAVLE WITH HAND SPRAY WITH 60" HOSE & LOW FLOW AERATOR
EW-1	EYEWASH, ADA ACCESSIBLE	HAWS 7360B WALL MOUTNED EYEWASH, MOUNTED AT ADA HEIGHT, WITH TEMPERED WATER BLENDING VALVE MODEL 9201
DF-I	DRINKING FOUNTAIN, ADA ACCESSIBLE	HAWS 1119
MS-1	MOP SINK	FLORESTONE 87, 24"X24" MOP SINK, 2" DRAIN, WITH MR-371 FAUCET
S-1	SINKS, ADA ACCESSIBILE	ELKAY LRADQI918 WITH DELTA 101-WF FAUCET, AND TRUEBRO LAV GUARD 2 E-Z SERIES UNDERSINK PROTECTION, ADA COMPLIANT.
S-2	SINKS, ADA ACCESSIBILE	ELKAY LRADQI918 WITH ZURN Z85500 FOOT PEDAL VALVE AND ZURN Z-821B0 FAUCET.
S-3	SINK	ELKAY AVADO #EFTS311811 STAINLESS STEEL SINK WITH GROHE #33 893 SDO DUAL SPRAY PULL-OUT STAINLESS STEEL FAUCET
HX-1	DOMESTIC HEAT EXCHANGER	BELL & GOSSETT PI4A
WB-1	WALL BOX, WASHING MACHINE	SPECIALTY PRODUCTS MODEL #801 WITH SHOCK ARRESTORS
DVP-1	DENTAL VACUUM PUMP	OWNER SUPPLIED EQUIPMENT.
DAC-1	DENTAL AIR COMPRESSOR	OWNER SUPPLIED EQUIPMENT.
NVP-1	NURSING VACUUM PUMP	AMICO V-RVL-S-030P-TS-I-020-46063-M
NAC-1	NURSING AIR COMPRESSOR	AMICO A-REN-S-030P-TS-I-020-46063
FD-1	FLOOR DRAIN	ZURN ZN 415 5B 5" DIA NICKEL BRONZE TOP WITH PPP TRAP PRIMER
FD-2	FLOOR DRAIN	ZURN ZN 415 WITH TYPE "E" CUP RECEPTOR STRAINER \$ PPP TRAP PRIMER
FC0	FLOOR CLEANTOUT	ZN-1400-HD BODY WITH NICKEL BRONZE TOP
MCO	WALL CLEANOUT	ZURN ZS1468
TP	TRAP PRIMER	PRECISION PRODUCTS MODEL PI OR P2
PT-1 HT-1	PLASTER TRAP HAIR TRAP	ZURN Z-1180 ZURN Z-1175
RD-1	ROOF DRAIN	ZURN RD2130 COMBINATION ROOF DRAIN AND OVERFLOW DRAIN
TMV-1	TEMPERATURE MIXING VALVE	POWERS MM434
PRV-1	PRESSURE REDUCING VALVE	WATTS 223 - 21/2"
BFP	BACKFLOW PREVENTOR	3½" TO 2": WILKINS MODEL 975XL, 2½" \$ ABOVE: WILKINS MODEL 375a
Ol	OIL INTERCEPTOR	ZURN Z1170-600-K
HB-1	HOSE BIBB	ZURN Z1341-PC
HB-2	HOSE BIBB	7URN 71330

PLUMBING FIXTURE SCHEDULE

WATER HEATER SCHEDULE									
ĀĢ	MODEL	LOCATION	TYPE	KM	FLA	V	WT (LBS)		
VH−1	AO SMITH DSE-120-60	FLOOR 1 ROOM 5-104A	INDOOR	60	125	480	1420		

ZURN Z1330

ATTACH TO WALL PER STEEL BACKING DETAIL AS SHOWN ON ARCHITECTURAL DRAWINGS

			PUM	1P	SCI	ΗEI					
ĀĢ	MODEL	LOCATIO	NTYPE	GPM	RPM	TDH	HP	ν/φ	MT (LBS)	REMARKS	
-1	BELL \$ GOS! PL30B	FLOOR 1 ROOM # 5-104A	BRONZE	VERIF`	1750	15	1/6	120	12	12	
-2	BELL # GOS	FLOOR 1	BRONZE	VERIF'	1750	15	1/6	120/	12	$\langle 1 \rangle \langle 2 \rangle$	

1> PUMP PROVIDED WITH BELL \$ GOSSET AQUASTAT set 130 degree FOR 120 degree SYSTEM PUMP SHALL MEET OR EXCEED GPM LOAD OF SUM ALL GRISWOLD VALVES SERVED BY PUMP 3 ELECTRICAL TO PROVIDE ADDITIONAL 2" CONDUIT FROM CONTROL PANEL TO INTRINSICALLY SAFE OUTLET BOX IN SUMP.

	TANK SCHEDULE										
TAG	MODEL	LOCATION	TYPE	GALLONS	TEMP	CONN. SIZE	WT (LBS)	REMARKS			
ET-1		FLOOR 1 RM 5-104A	DOMESTIC WATER EXPANSION TANK	17.5	140°F	1 ^{II}	100	FLOOR MOUNTED			
ST-1	HANSEN	FLOOR 1 RM 5-104A	DOMESTIC WATER STORAGE TANK	180	140°F	2"	1905	1 2			
DT-1	ORION STYLE 5	VARIES	DILUTION TANK	5	120°F MAX	1 1/2"	50				

1. STORAGE TANK TO BE ASME STAMPED TO OPERATE TO 125 PSI W/ PTRV. EPOXY LINED, INSULATED.

2. ANCHOR PER DETAIL 1/P9.02

HB-2 HOSE BIBB

HOT W	ATER RETURN BALAN	CE VALV	ES	
MANUFACTURER	MODEL	SIZE	GPM	PSID
GRISWOLD CONTROLS	ISOLATOR "Y" IY12	1/2"	0.55	2-32

	PIPE MATERIAL SCHEDULE							
CODE	ITEM	SCOPE						
SS V	SANITARY WASTE AND VENT PIPING ABOVE \$ BELOW GRADE	NO HUB CAST IRON PIPE AND FITTINGS WITH STANDARD STAINLESS STEEL SHIELDED COUPLINGS WITH NEOPRENE GASKETS.						
SD	STORM DRAIN ABOVE \$ BELOW GRADE	NO HUB CAST IRON PIPE AND FITTINGS WITH STANDARD STAINLESS STEEL SHIELDED COUPLINGS WITH NEOPRENE GASKETS.						
PD	PUMPED DISCHARGE PIPING	TYPE "L" COPPER WITH DWV COPPER FITTINGS.						
CW HW IRR	ABOVE GRADE DOMESTIC WATER PIPING	TYPE "L" COPPER PIPE AND COPPER FITTINGS WITH LEAD-FREE SOLDER JOINTS SIZES ½"-2" VICTAULIC JOINTS SIZES 2½"-4".						
CM	BELOW GRADE DOMESTIC WATER PIPING	TYPE "L" COPPER PIPE AND COPPER FITTINGS WITH LEAD-FREE SOLDER JOINTS SIZES 1/2" -2" SILFOS 21/2" \$ LARGER.						
CD	CONDENSATE DRAINS ABOVE GRADE	TYPE "M" COPPER PIPE AND COPPER FITTINGS WITH LEAD-FREE SOLDER JOINTS SIZES ½"-2".						
CA	COMPRESSED AIR	PIPING TO CONPLY WITH NFPA-99.						
V	VACUUM	PIPING TO COMPLY WITH NFPA-99						

PLUMBING SCOPE							
CODE	ITEM	SCOPE					
SS V	SANITARY WASTE AND VENT PIPING ABOVE & BELOW GRADE	SANITARY WASTE AND VENT SYSTEM STUBBED OUT 5'-0" FROM BUILDING					
SD	STORM DRAIN ABOVE \$ BELOW GRADE	SANITARY WASTE AND VENT SYSTEM STUBBED OUT 5'-0" FROM BUILDING. STORM WATER COLLECTION SYSTEM FROM PODIUM LEVEL TO OUTSIDE OF BUILDING STUBBED OUT 5'-0" FROM BUILDING.					
CW HW	DOMESTIC WATER PIPING	DOMESTIC HOT AND COLD WATER SYSTEMS FROM METER TO FIXTURES INCLUDING BACKFLOW PREVENTORS. HOT WATER SYSTEM TO BE INSULATED TO TITLE 24.					
CD	CONDENSATE	CONDENSATE PRIMARY AND SECONDARY DRAINS FROM COOLING COILS TO APPROPRIATE POINT OG CONNECTION.					
FIX	PLUMBING FIXTURES	FIXTURES: SUPPLY, SET AND CONNECT ALL FIXTURES LISTED IN SCHEDULES. ALSO CONNECT DISHWASHERS AND DISPOSERS.					
CA	COMPRESSED AIR	MEDICAL COMPRESSED AIR FOR DENTAL AREA. INDUSTRIAL COMPRESSED AIR FOR SIMULATED NURSING HEADWALLS.					
٧	VACUUM	MEDICAL VACUUM FOR DENTAL AREA. INDUSTRIAL VACUUM FOR SIMULATED NURING HEADWALLS.					
	1	I .					

MANDATORY MEASURES

MECHANICAL MEASURES (EQUIPMENT & SYSTEMS EFFICIENCY)

[X] ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. [X] PIPING, EXCEPT THAT CONVEYING FLUIDS AT TEMPERATURES BETWEEN 80

AND 105°F, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS SECTION 123.

SERVICE WATER HEATING SYSTEMS

[X] IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED, IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED.

[X] LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110°F.

[X] OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GPM IN PUBLIC LAVATORIES.

	MAXIMUN	1 FIXTUR	E UNITS	- WATE	R PIPING	
	4 FT	'/SEC	5 FT	'/SEC	6 FT	/SEC
PIPE SIZES	GPM	FU	GPM	FU	GPM	FU
3/4"	6	6	7.5	9	8.5	10
1"	10	12	13	18	15	20
1 1/4"	15	20	19	26	22	32
1 1/2"	22	32	27	46	32	55
2"	40	87	48	120	60	178
2 1/2"	62	175	74	250	95	350
3"	90	320	105	400	140	570
4 ¹¹	148	650	185	850	223	1125
6"			418	2900	500	4000+

WATER SIZING NOTES

1. VELOCITY FOR ALL PIPING RISERS ARE SIZED AT 4 FT/SEC MAX. 2. VELOCITY FOR ALL COLD WATER PIPING MAINS IS SIZED AT 6 FT/SEC MAX. 3. VELOCITY FOR ALL HOT WATER PIPING MAINS IS SIZED AT 5 FT/SEC MAX. 4. VELOCITY FOR ALL HOT WATER RETURN PIPING IS SIZED AT 4 FT/SEC MAX. 5. VELOCITY VALUES SIZED BASED UPON CPC APPENDIX A CHARTS A-2 AND A-4.

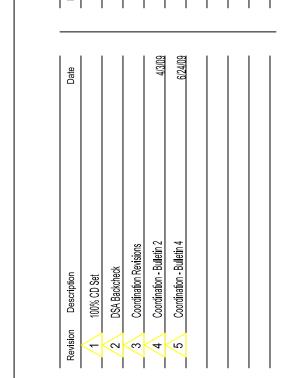
	SHEET INDEX	
SHEET NO.	SHEET TITLE	SCAL
P1.00	COVER SHEET	
P2.01.BG	PLUMBING - LEVEL 1 - WEST BELOW GRADE DWV PIPING	/ ₈ "=1'-
P2.01	PLUMBING - LEVEL 1 - WEST DWV PIPING	/ ₈ "=1'-
P2.02BG	PLUMBING - LEVEL 1 - EAST BELOW GRADE DWV PIPING	/ ₈ "=1'-
P2.02	PLUMBING - LEVEL 1 - EAST DWV PIPING	/ ₈ "=1'-
P2.03.BG	PLUMBING - LEVEL 2 - WEST BELOW GRADE DWV PIPING	/ ₈ "=1'-
P2.03	PLUMBING - LEVEL 2 - WEST DWV PIPING	1/8"=1'-
P2.04	PLUMBING - LEVEL 2 - EAST DWV PIPING	1/8"=1'-
P2.05	PLUMBING - LEVEL 3 - WEST DWV PIPING	1/8"=1'-
P2.06	PLUMBING - LEVEL 3 - EAST DWV PIPING	1/8"=1'-
P2.07	PLUMBING ROOF PLAN WEST PIPING	1/8"=1'-
P2.08	PLUMBING ROOF PLAN EAST PIPING	1/8"=1'-
P3.01	PLUMBING - LEVEL I - WEST PRESSURE PIPING	1/8"=1'-
P3.02	PLUMBING - LEVEL I - EAST PRESSURE PIPING	1/8"=1'-
P3.03	PLUMBING - LEVEL 2 - WEST PRESSURE PIPING	1/8"=1'-
P3.04	PLUMBING - LEVEL 2 - EAST PRESSURE PIPING	1/8"=1'-
P3.05	PLUMBING - LEVEL 3 - WEST PRESSURE PIPING	1/8"=1'-
P3.06	PLUMBING - LEVEL 3 - EAST PRESSURE PIPING	1/8"=1'-
P3.07	NOT USED	⅓"=1'-
P3.08	NOT USED	1/8"=1'-
P4.01	PLUMBING - ENLARGED PLUMBING PLANS	1/4"=1"-
P4.02	PLUMBING - ENLARGED PLUMBING PLANS	1/4"=1'-
P4.03	PLUMBING - ENLARGED PLUMBING PLANS	1/4"=1"-
P4.04	PLUMBING - ENLARGED PLUMBING PLANS	1/4"=1'-
P4.05	PLUMBING - DWV RISER DIAGRAM	NONE
P4.06	PLUMBING - DWV RISER DIAGRAM / STORM DRAIN RISER DIAGRAM	NONE
P4.07	PLUMBING - DOMESTIC WATER RISER DIAGRAM	NONE
P9.01	PLUMBING - DETAILS	NONE
P9.02	PLUMBING - DETAILS	NONE

		EQUIPMENT IDENTIFICATION	CW	COLD WATER SUPPLY PIPE
		SECTION OR DETAIL IDENTIFICATION NUMBER SHEET ON WHICH SECTION OR DETAIL IS SHOWN	 55	SANITARY SEWER PIPE
			 55	SANITARY SEWER PIPE U.G.
		SHEET NOTES	—— OFD ——	OVERFLOW STORM DRAIN PIPE ABOVE FLOOI
$\overline{\square}$		GENERAL NOTES		OVERFLOW STORM DRAIN PIPE BELOW FLOOR
		PLUMBING FIXTURE TAG	SD	STORM DRAIN PIPE ABOVE FLOOR
φ		DIAMETER OR ROUND. ELECTRICAL: PHASE	SD	STORM DRAIN PIPE BELOW FLOOR
- ₩	GV	GATE VALVE	——GD ——	GARAGE DRAIN PIPE ABOVE FLOOR
-№ -	PRV	PRESSURE REDUCING VALVE	—— GD ——	GARAGE DRAN PIPE BELOW FLOOR
- ₩-	SHV	SQUARE HEAD VALVE	—— PELEV —	PUMPED ELEVATOR DISCHARGE
4	CKV	CHECK VALVE	CLG	CEILING
Ā ⊢	PTRV	PRESSURE AND TEMERATURE RELIEF VALVE	FF	FINISH FLOOR
-1 -	MHA	WATER HAMMER ARRESTOR	IE	INVERT ELEVATION
 ə	DN	PIPE DN	NIPW	NOT IN PLUMBING WORK
<u> </u>	UP	PIPE UP	NTS	NOT TO SCALE
\longrightarrow	HB	HOSE BIBB	R	RISE
Φ	CO	CLEAN OUT	TYP	TYPICAL
Φ	GCO	GRADE CLEAN OUT	UG	UNDERGROUND
6		2-WAY CLEANOUT		
ı—	MCO	WALL CLEAN OUT	VR	VENT RISER
<u></u>		PIPE CONTINUES	VTR	VENT THRU ROOF
	CFF	CAPPED FOR FUTURE		
o F	D,FS,AD	FLOOR DRAIN, FLOOR SINK, AREA DRAIN (BELC	W)	
\longrightarrow	GO	NATURAL GAS OUTLET		
XX		RISER TAG		

	(OF DR	KAINA	GE AN	ID VE	NI P	IPING				
SIZE OF PIPE, INCHES (mm)	1-1/4 (32)	1-1/2 (40)	2 (50)	2-1/2 (65)	3 (80)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	(
MAXIMUM UNITS DRAINAGE PIPINGI VERTICAL HORIZONTAL	1 1	2 ²	16 ³ 8 ³	32 ³ 14 ³	48 ⁴ 35 ⁴	256 216 ⁵	600 428 ⁵	1380 720 ⁵	3600 2640 ⁵	5600 4680 ⁵	8
MAXIMUM LENGTH DRAINAGE PIPING VERTICAL, FEET (m) HORIZONTAL (UNLIMITED)	45 (14)	65 (20)	85 (26)	148 (45)	212 (65)	300 (91)	390 (119)	510 (155)	750 (228)		
VENT PIPING (SEE NOTE) HORIZONTAL AND VETICAL MAXIMUM UNITS MAXIMUM LENGTHS, FT. (m)	1 45 (14)	8 ³ 60 (18)	24 120 (37)	48 180 (55)	84 212 (65)	256 300 (91)	600 390 (119)	1380 510 (155)	3600 750 (228)		

3 EXCEPT SIX-UNIT TRAPS OR WATER CLOSETS.

4 ONLY FOUR (4) WAYER CLOSETS OR SIX-UNIT TRAPS ALLOWED ON ANY VERTICAL PIPE OR STACK; AND NOT TO EXCEED THREE (3) WATER CLOSETS OR SIX-UNIT TRAPS ON ANY HORIZONTAL BRANCH OR DRAIN. 5 BASED ON ONE-FOURTH (1/4) INCH PER FORR (20.9 mm/m) SLOPE. FOR ONE-EIGHTH (1/8) INCH PER FOOT (10.4 mm/m) SLOPE, MULTIPLY HORIZONTAL FIXTURE UNITS BY A FACTOR OF 0.8.



Kwan Henmi Architecture / Planning 456 Montgomery St., Suite 300 San Francisco, California 94104

> IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

> > APPL. 01-109870

ACC_____ FLS ____ SS ____

No. M28962 🚣 Exp. 6/30/10 🚣

J.W. McCLENAHAN CO. 2301 PALM AVE P.O. BOX 1149

SAN MATEO, CA 94403 TEL: (650) 345-1691 FAX: (650) 345-5681

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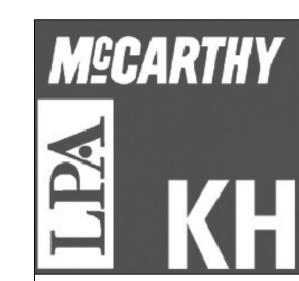
Cover Sheet

RECORD DOCUMENT

J.W. McCLENAHAN CO.

DATE January 15, 2010





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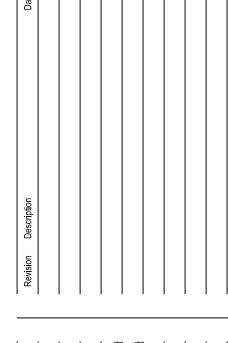


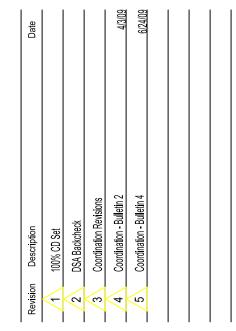


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Plumbing - Level 1 - West Underground DWV Piping

P2.01BG





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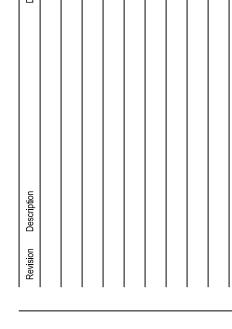


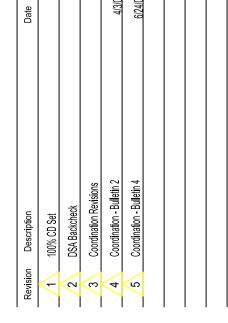


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Plumbing - Level 1 - West DWV Piping



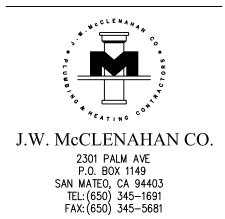
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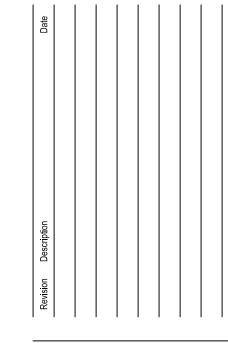
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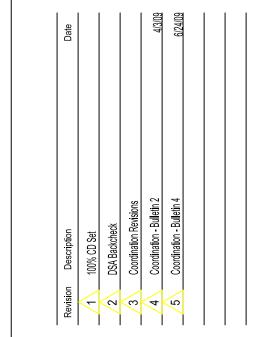
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San Mateo, CA

Developed for San Mateo County Community College District





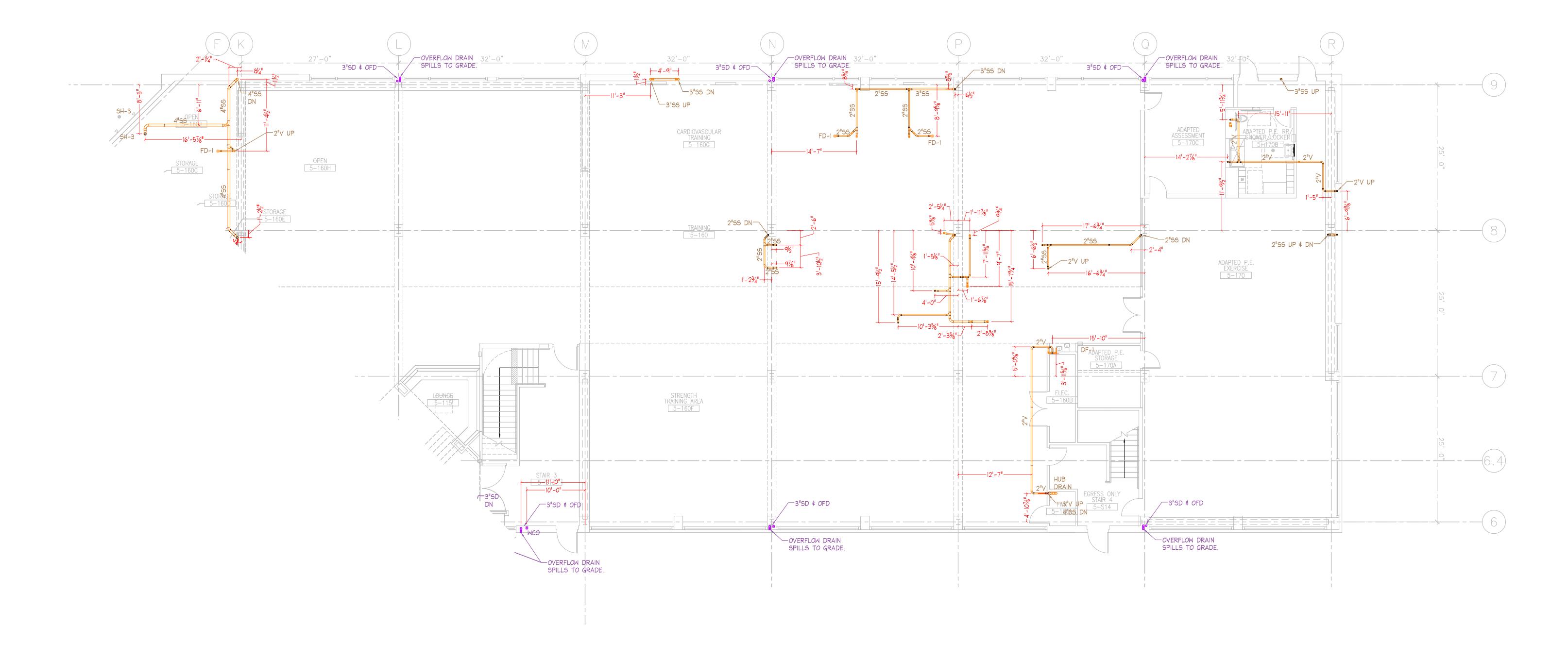
Job. No. 0715.00

Date 4.3.2009

Scale 1/8" = 1'-0"

Plumbing - Level 1 - East
DWV Piping

M AVE. 8540 YOUNGER CREEK DR 1610 MARIETTA WAY SPARKS, NV 89431 (0), CA 94403 SACRAMENTO, CA 95828 345–1691 TEL: (916) 387–0303 TEL: (775) 331–6700 FAX: (775) 331–6473 RECORD DOCUMENT



DATE January 15, 2010

PROJECT NORTH



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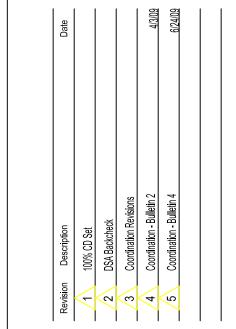


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Building 5N
San Mateo, CA
Developed for

Revision Description Date



PROJECT NORTH

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RECORD DOCUMENT

DATE January 15, 2010

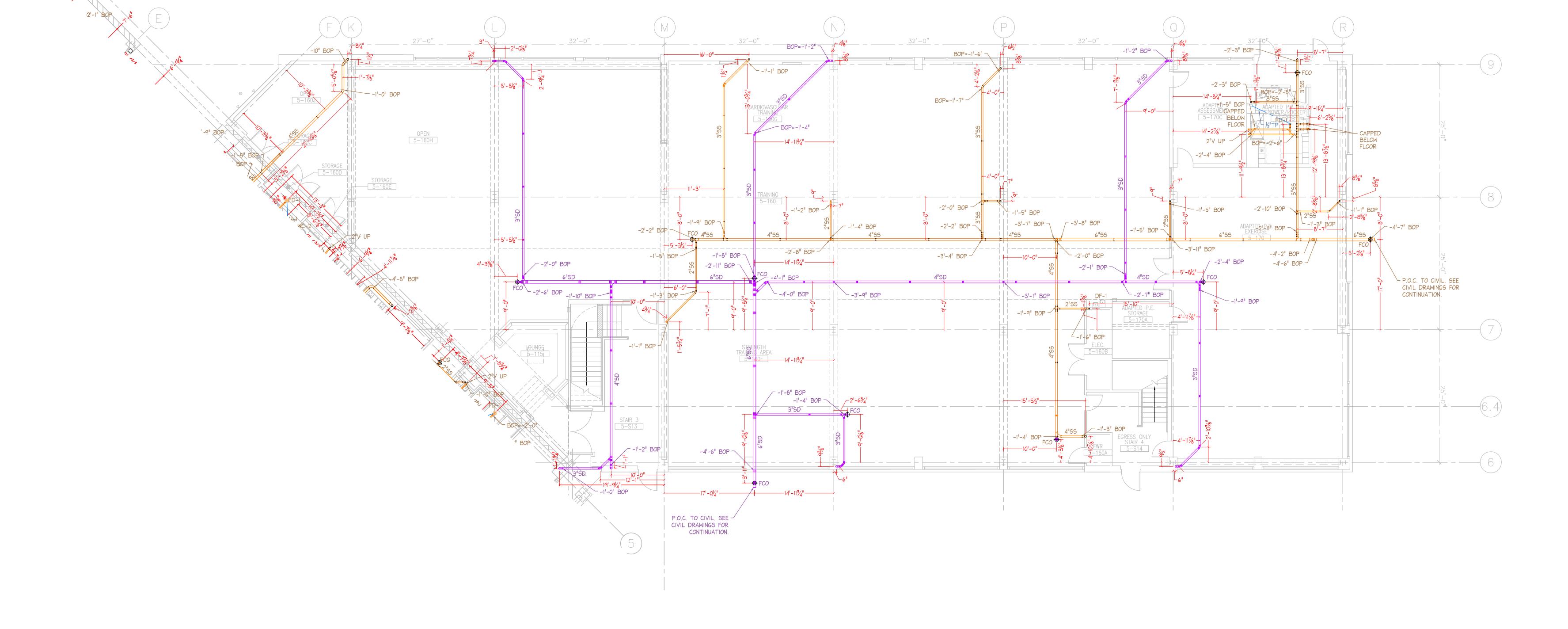
Job. No. 0715.00

Date 4.3.2009

Scale 1/8" = 1'-0"

Plumbing - Level 1 - East Underground DWV Piping

P2.02BG







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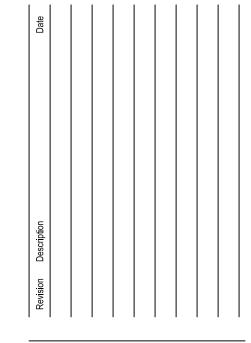
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TEL: (650) 345–1691
FAX: (650) 345–5681

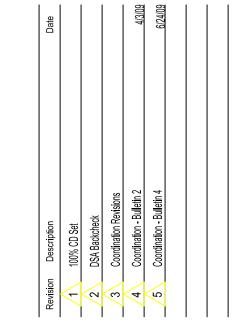
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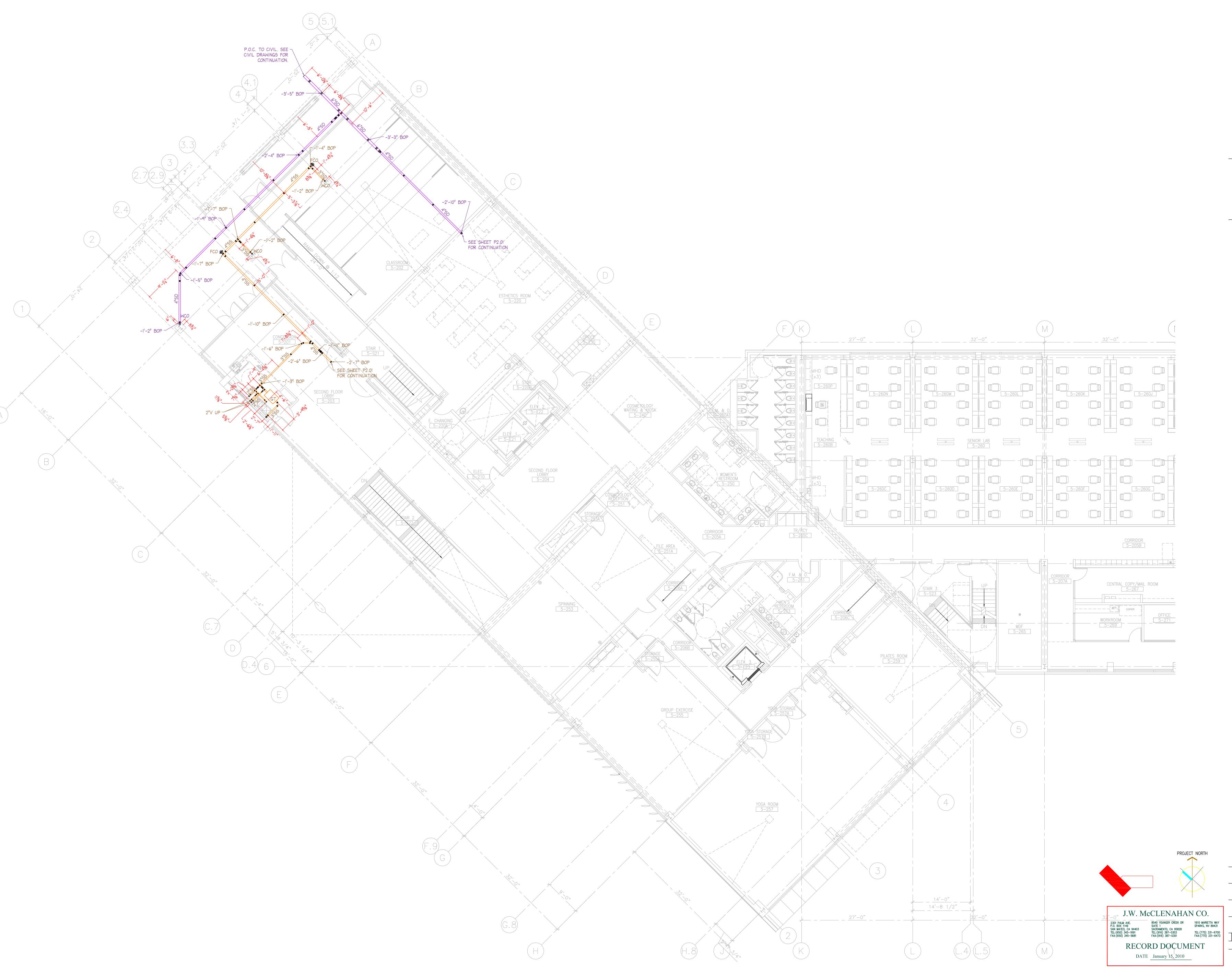
Job. No.

Date

Scale

Plumbing - Level 2 - West
DWV Piping

P2.03





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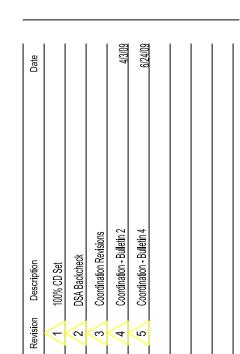
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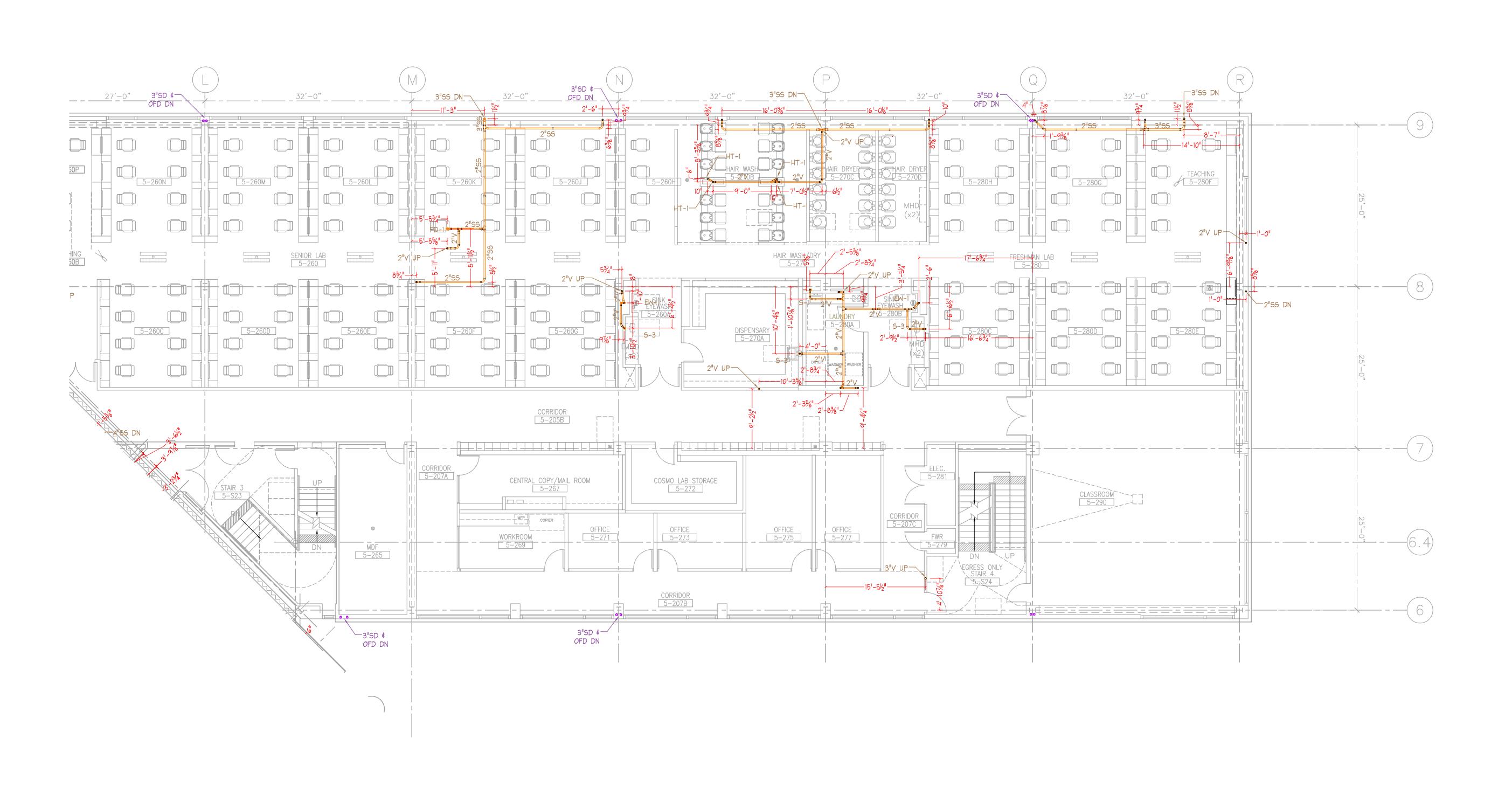
Job. No. 0715.00

Date 4.3.2009

Scale 1/8" = 1'-0

Plumbing - Level 2 - West
Below Grade

P2.03BG





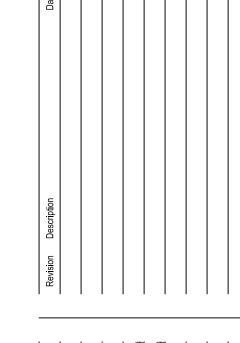
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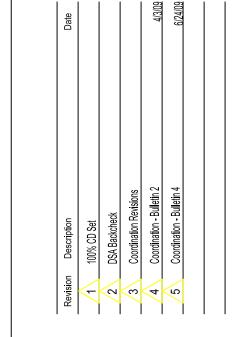




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4.3.2009 1/8" = 1'-0"

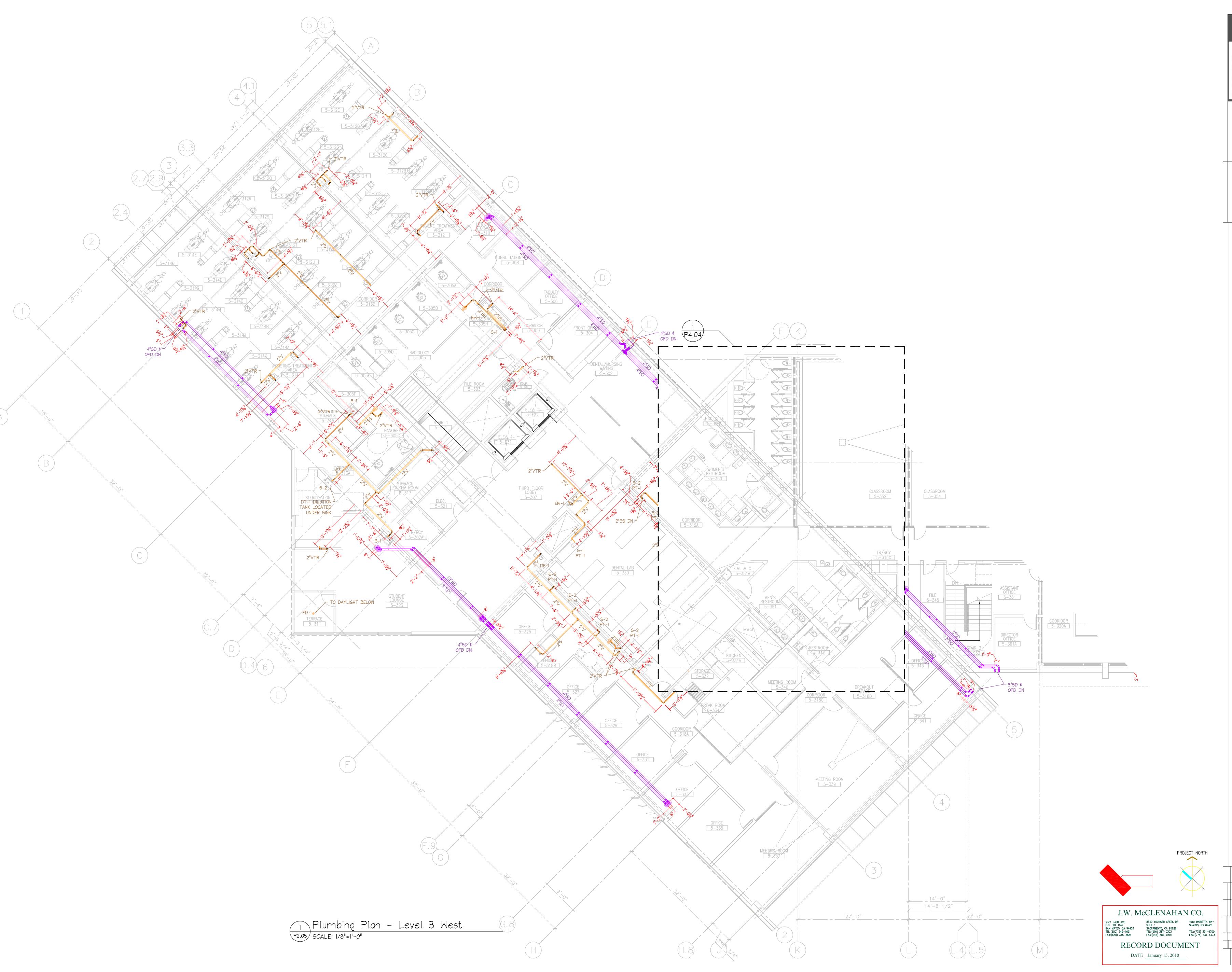
Plumbing - Level 2 - East DWV Piping

RECORD DOCUMENT

PROJECT NORTH

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DATE January 15, 2010





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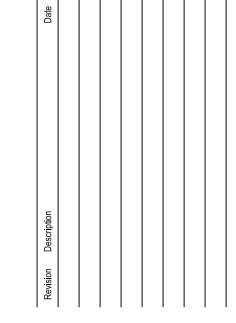


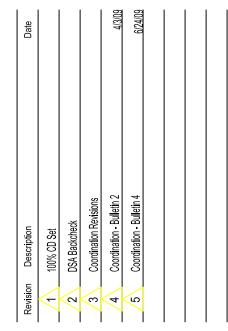


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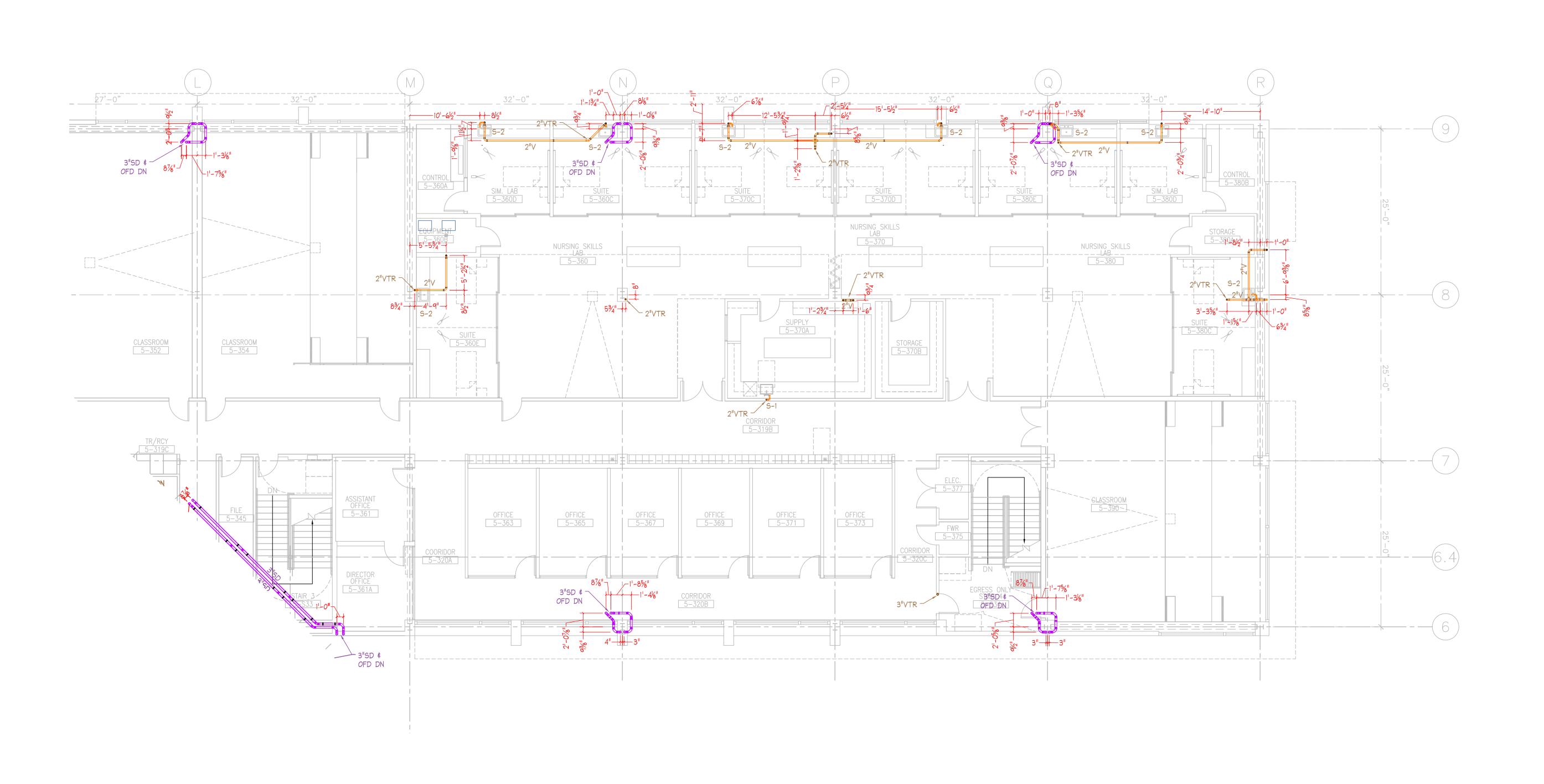
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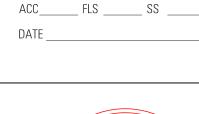


1/8" = 1'-0" Plumbing - Level 3 - West DWV Piping





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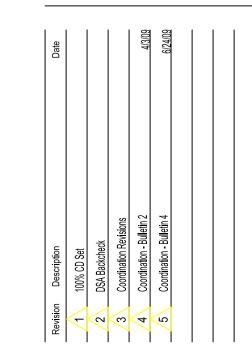


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Date Date



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Date 4.3.2009

Scale 1/8" = 1'-0"

Plumbing - Level 3 - East DWV Piping

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DATE

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DWV

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SPARKS, NV 89431
TEL:(775) 331–6700
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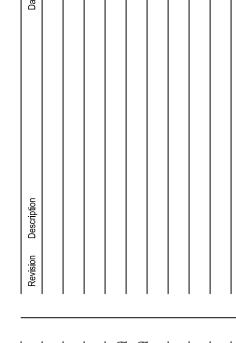
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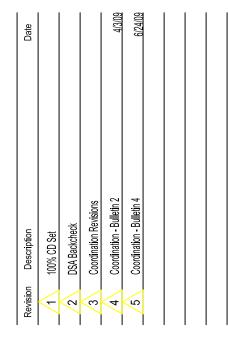
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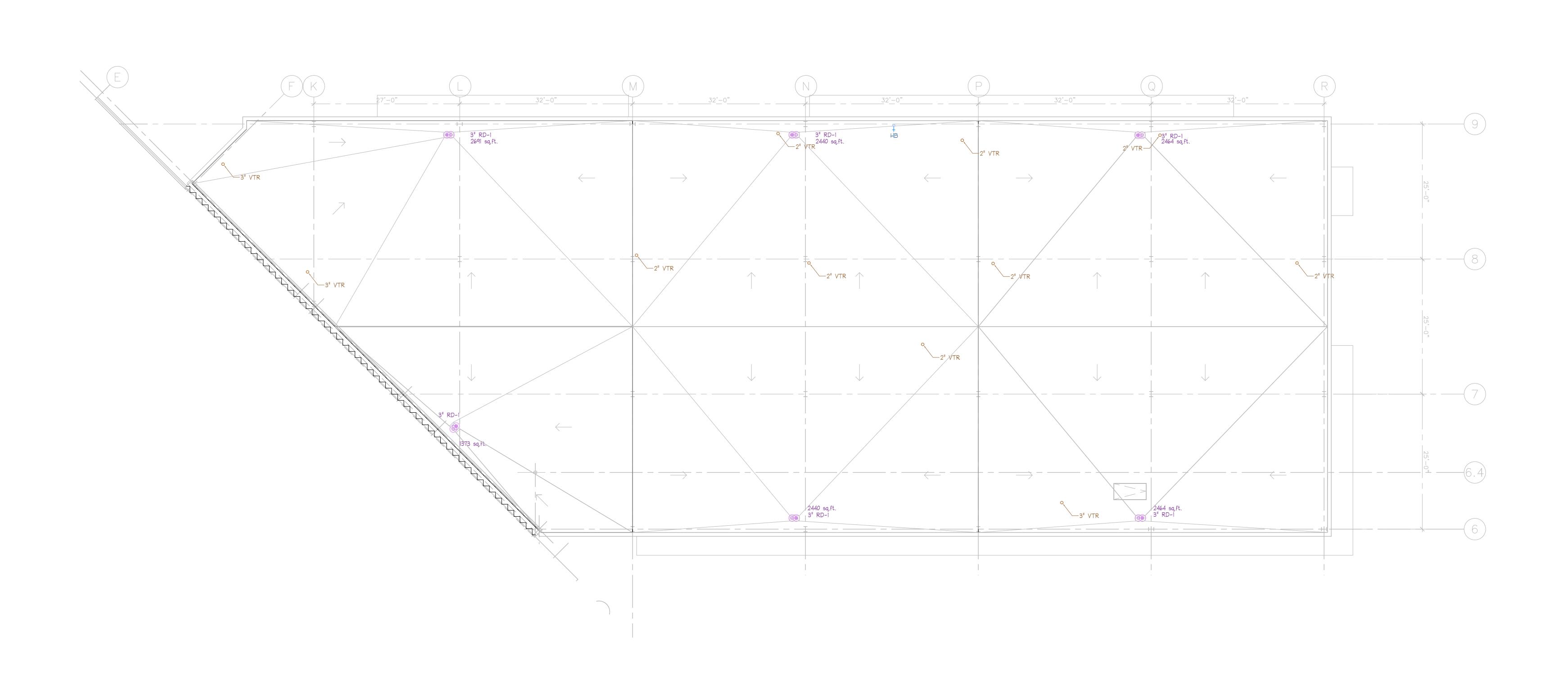
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Date 4.3.2009

Scale 1/8" = 1'-0"

Plumbing Roof Plan West DWV & Pressure Piping

P2.07



MECARTHY

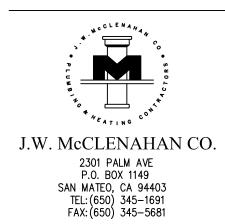
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Kwan Henmi Architecture / Planning 456 Montgomery St., Suite 300 San Francisco, California 94104 P 415 777-4770 F 415 777-5102 W www.kwanhenmi.com

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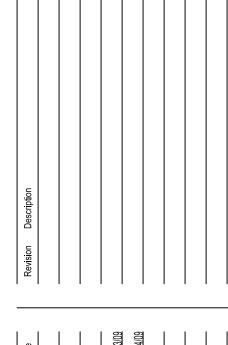
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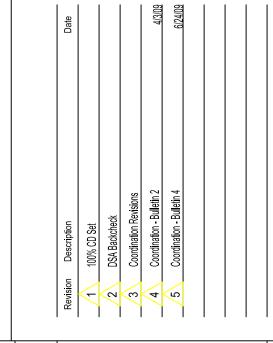
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Scale 1/8" = 1'-0"

Plumbing Roof Plan East DWV Piping

P2.08

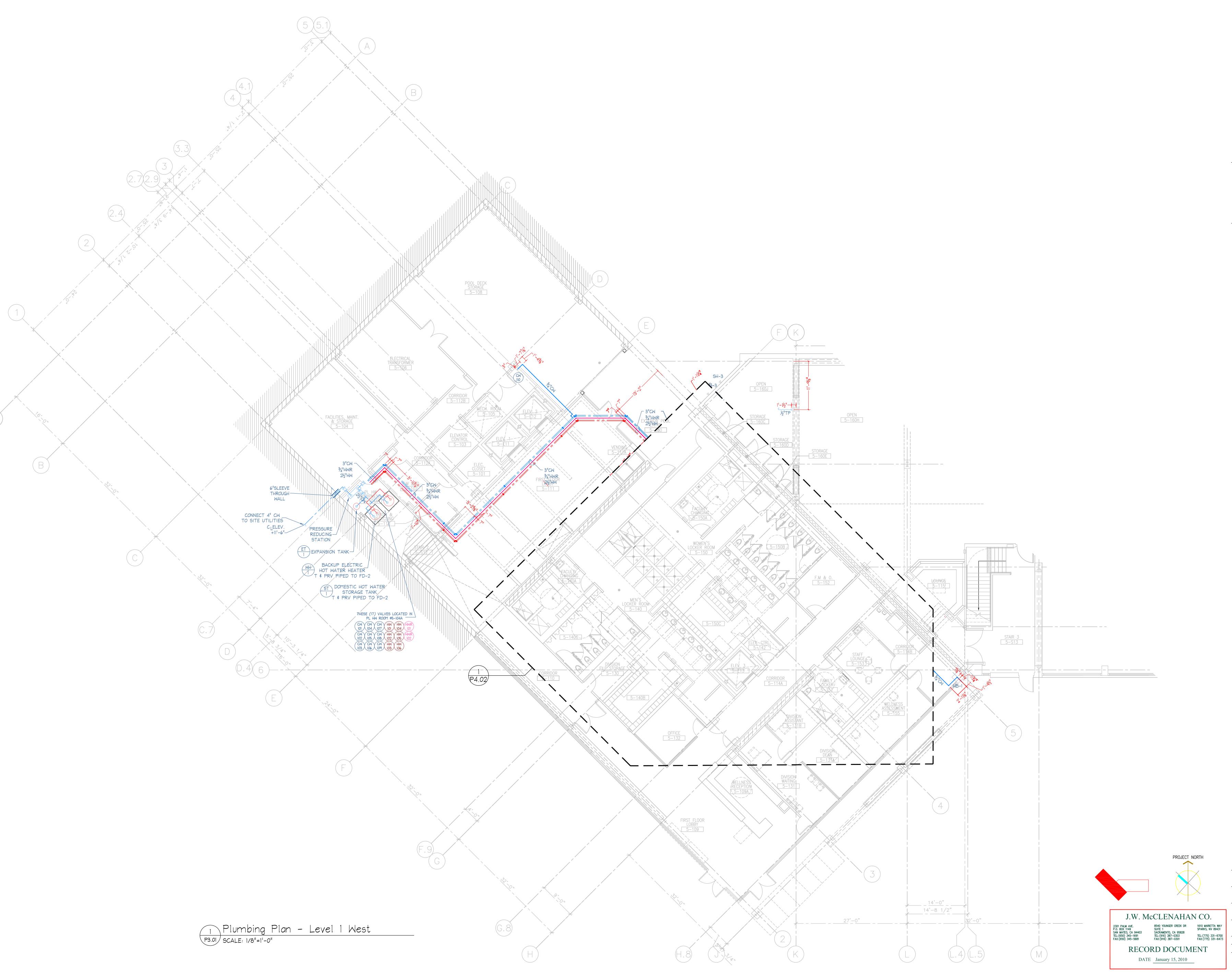
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RECORD DOCUMENT

DATE January 15, 2010

Plumbing Plan - Roof Level East P2.08 SCALE: 1/8"=1'-0"





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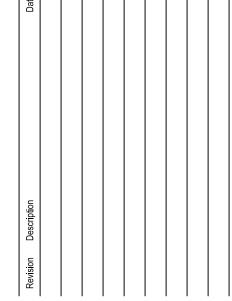


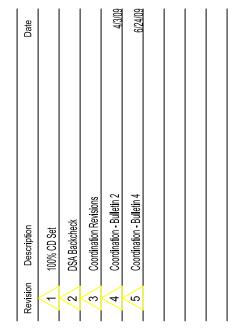


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1/8" = 1'-0"

Plumbing - Level 1 - West Pressure Piping

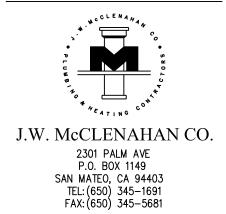
P3.01



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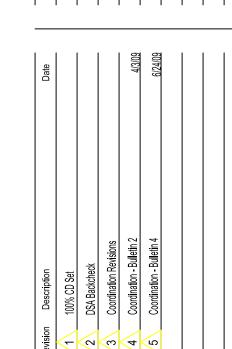
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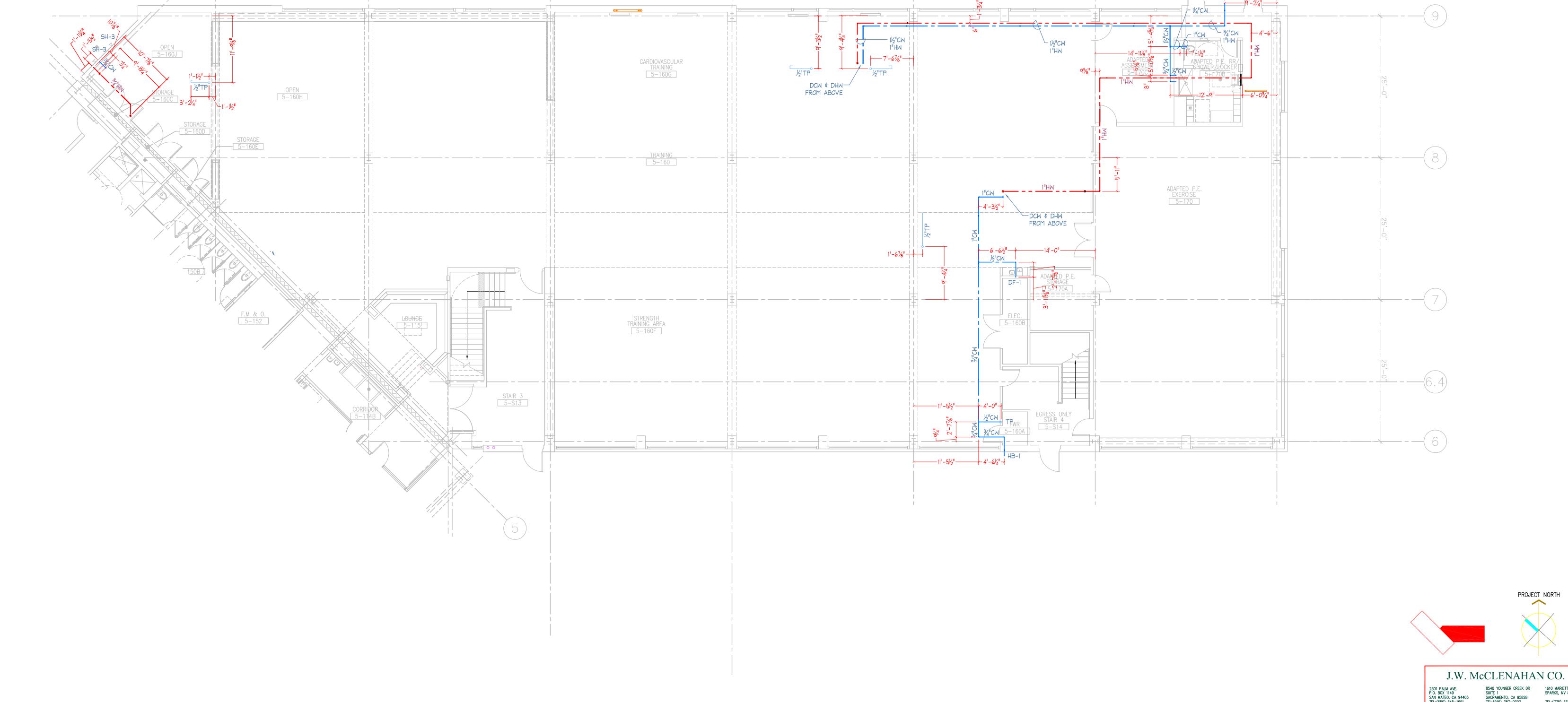
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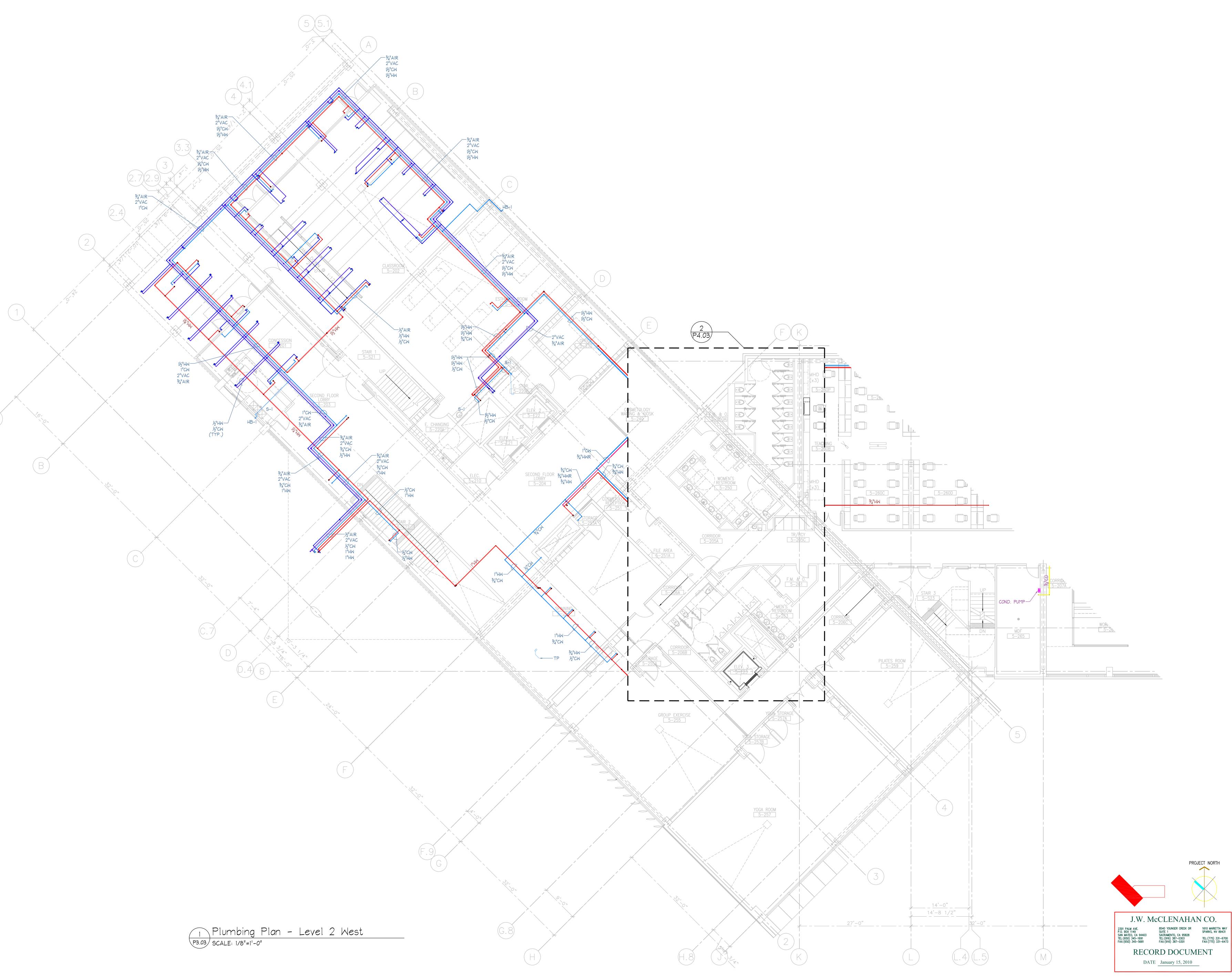
Scale 1/8" = 1'-0"

Plumbing - Level 1 - East
Pressure Piping

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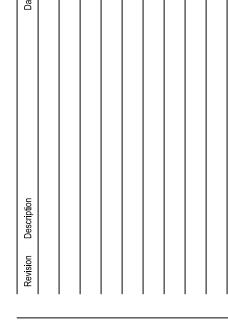


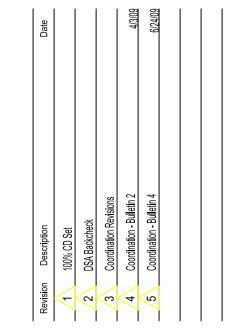


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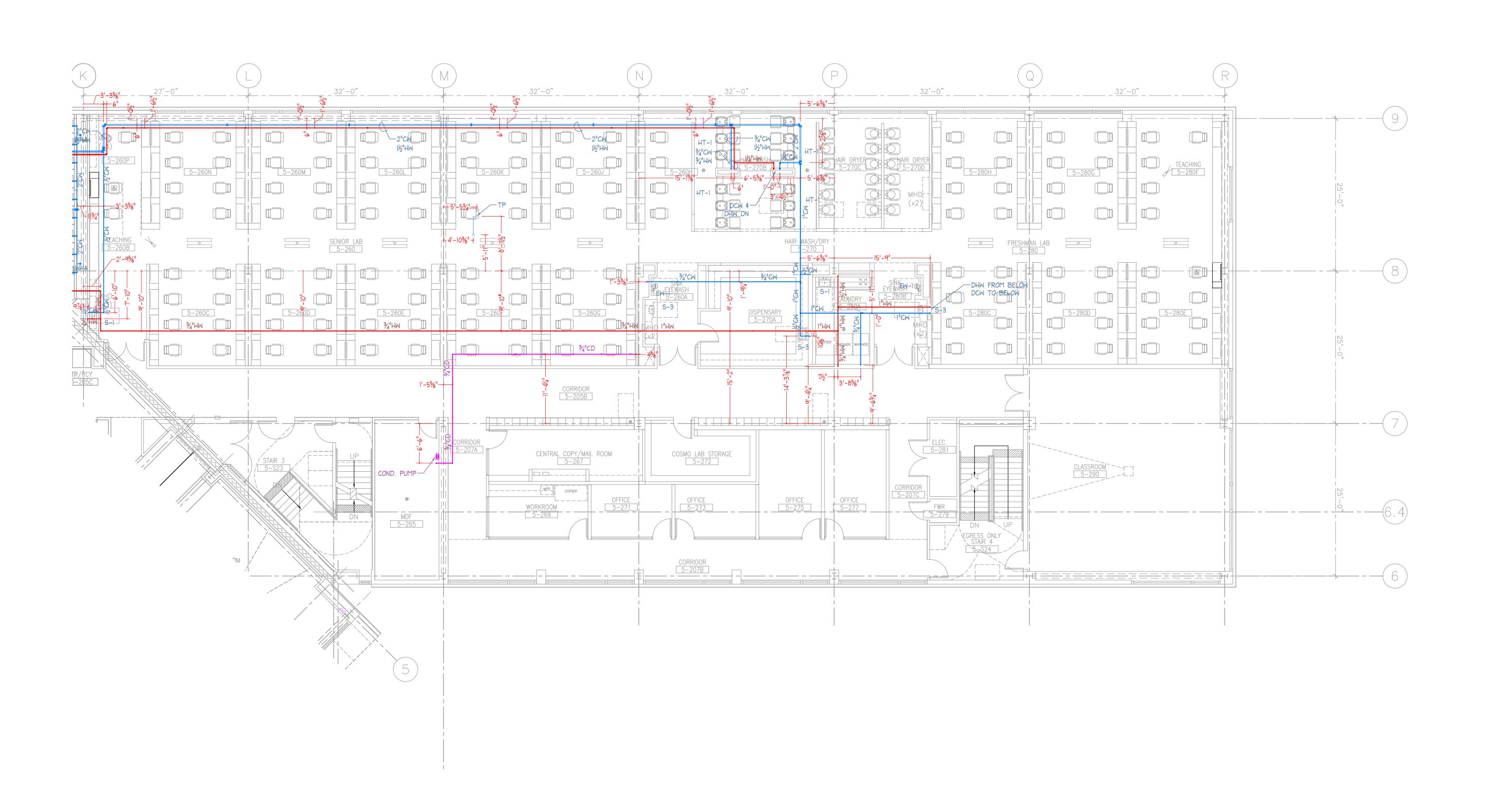




1/8" = 1'-0"

Plumbing - Level 2 - West Pressure Piping

P3.03





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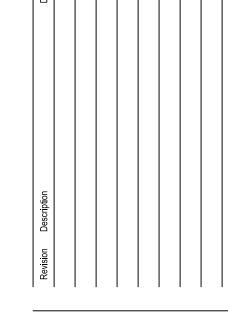
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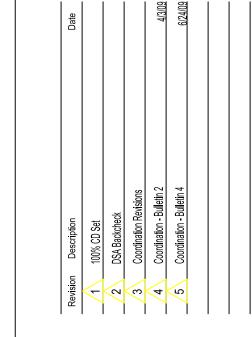
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Job. No. 0715.00

Date 4.3.2009

Scale 1/8" = 1'-0"

Plumbing - Level 2 - East

Plumbing - Level 2 - Pressure Piping

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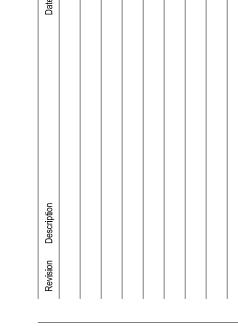
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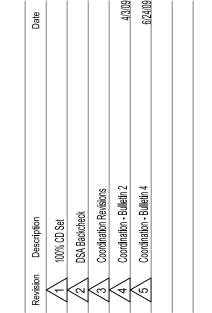
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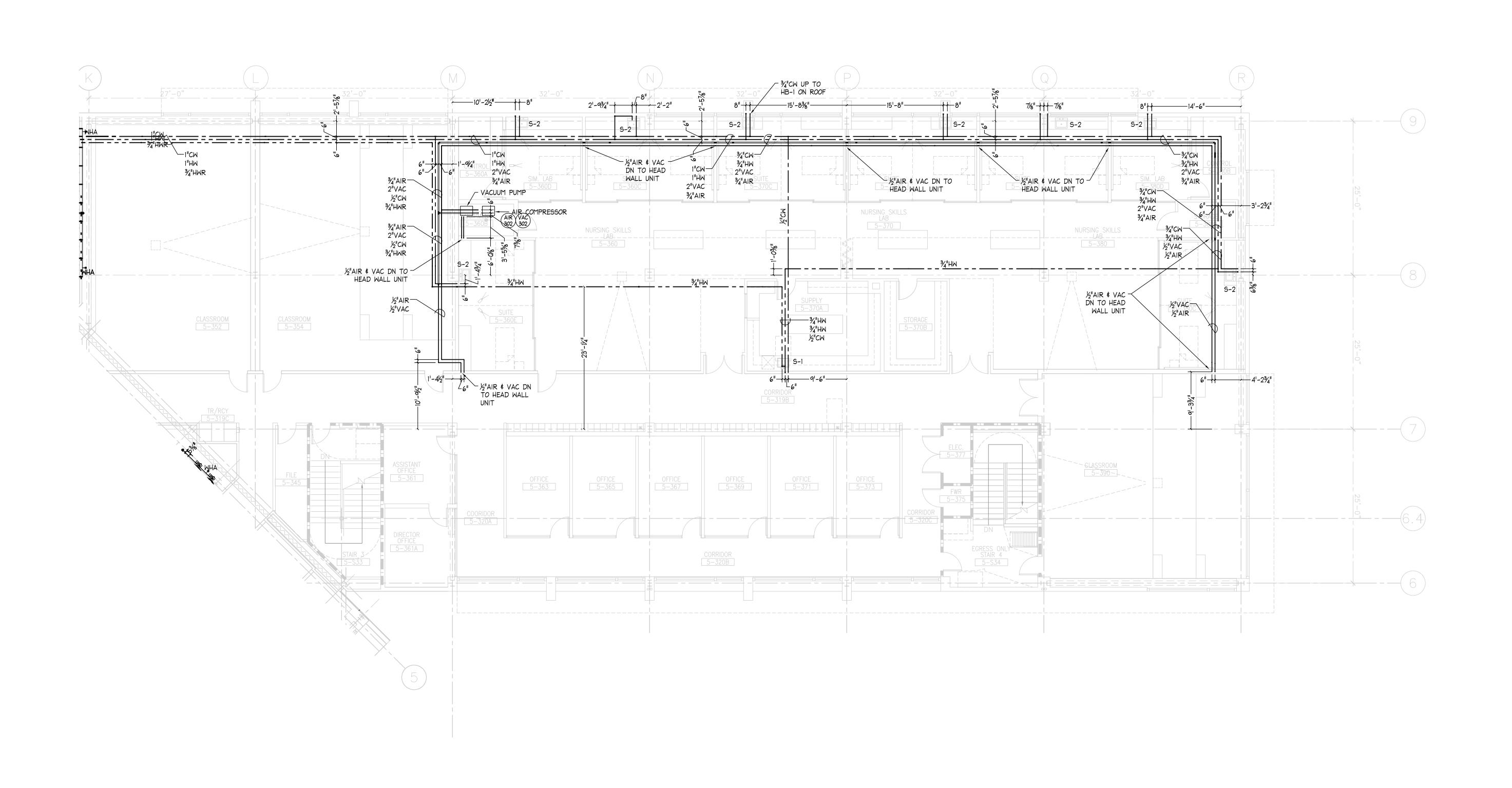
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Date 4.3.2009

Scale 1/8" = 1'-0"

Plumbing - Level 3 - West Pressure Piping

P3.05





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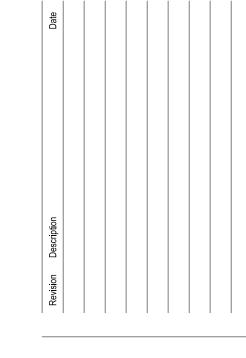
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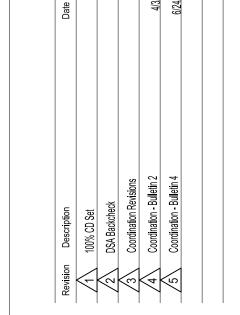
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Scale 1/8" = 1'-0"

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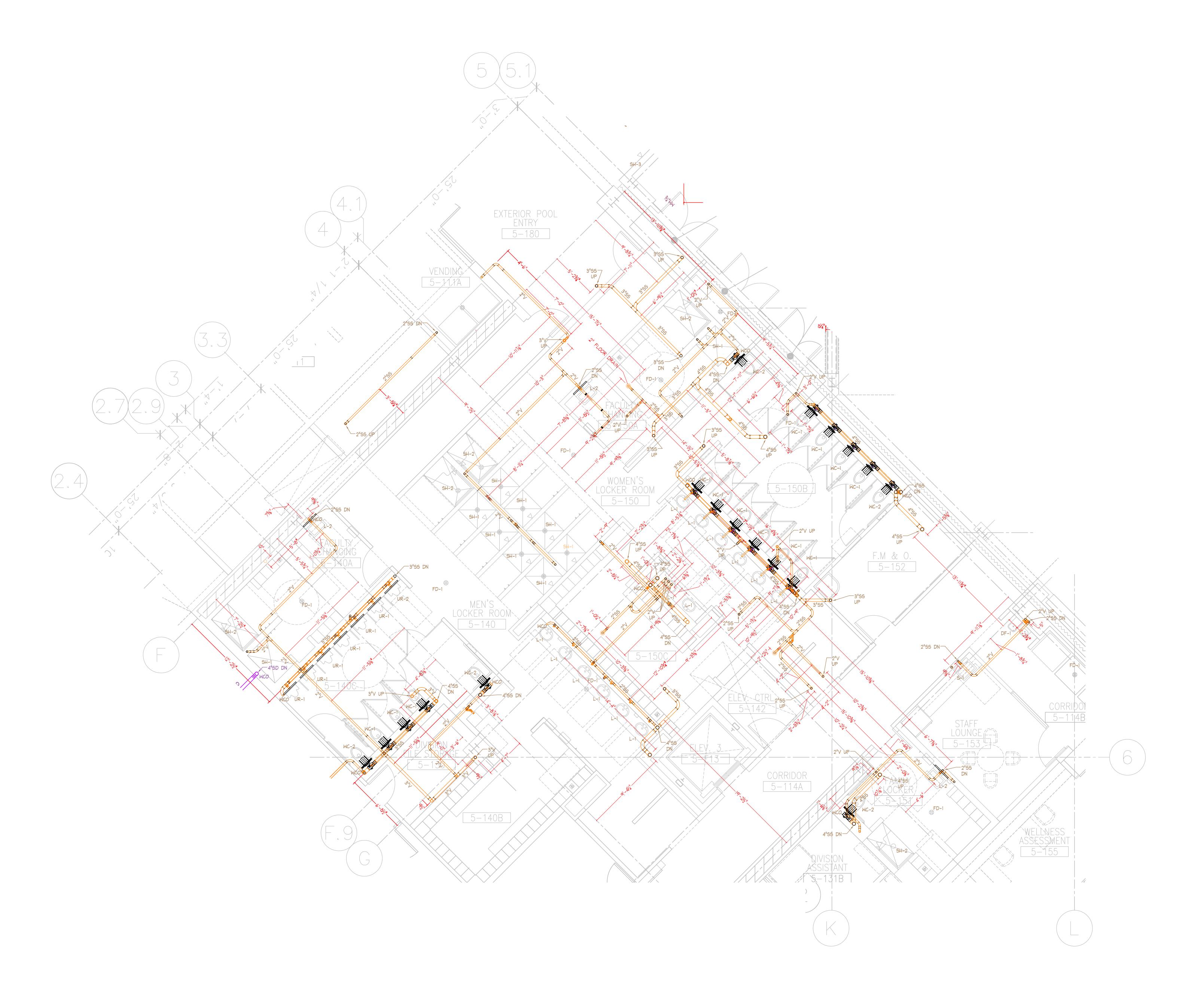
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Plumbing - Level 3 - East Pressure Piping

P3.06



Level 1 Enlarged Bathroom Plan

P4.02 SCALE: 1/4"=1'-0"



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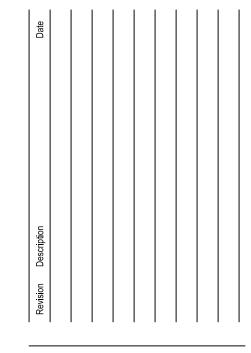
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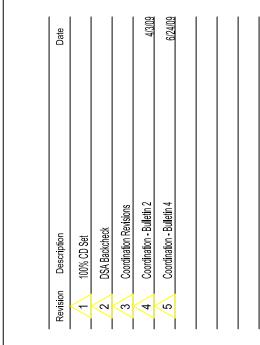
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Enlarged Plumbing Plans

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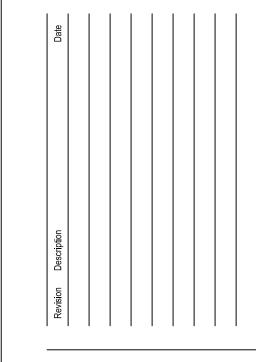
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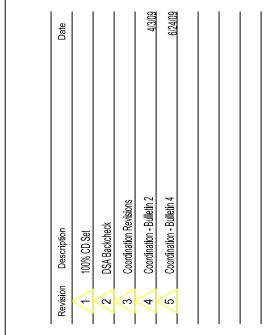
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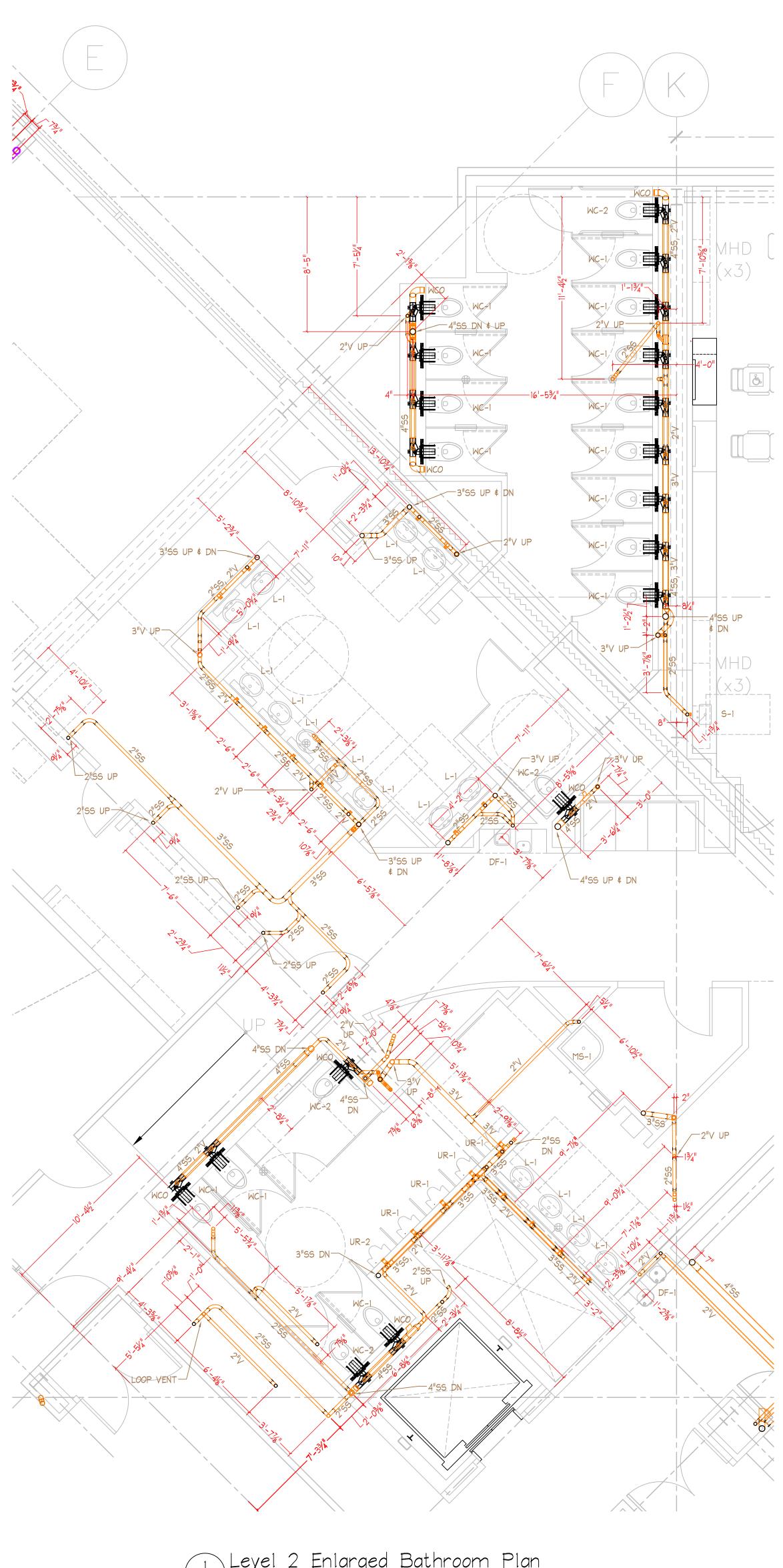
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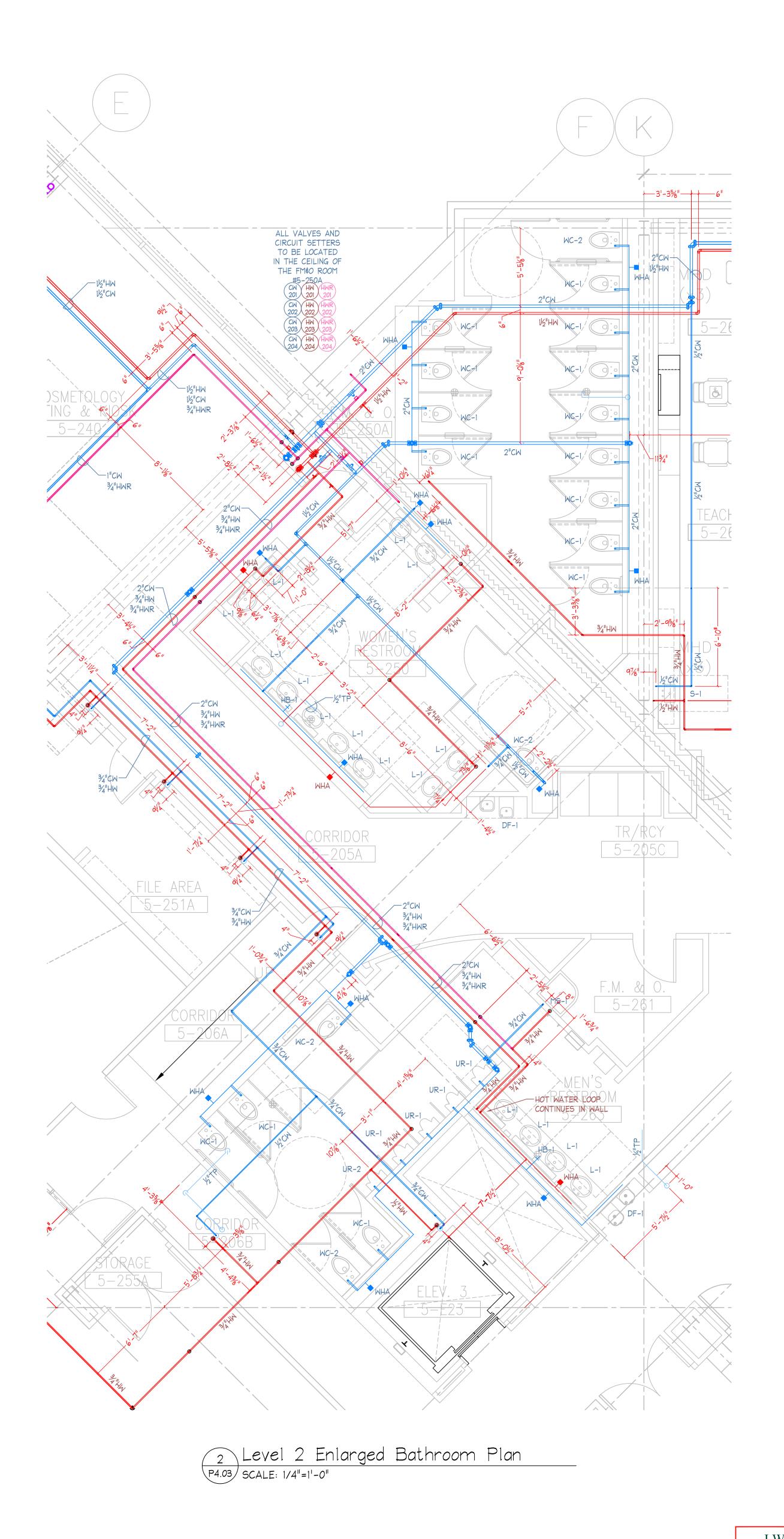
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Enlarged Plumbing Plans

P4.02



Level 2 Enlarged Bathroom Plan P4.03 SCALE: 1/4"=1'-0"





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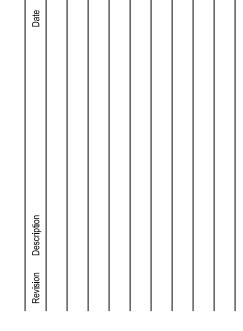
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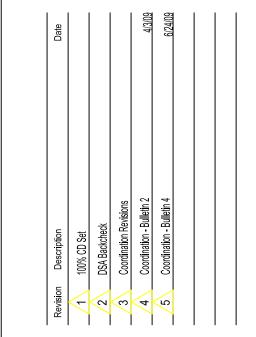
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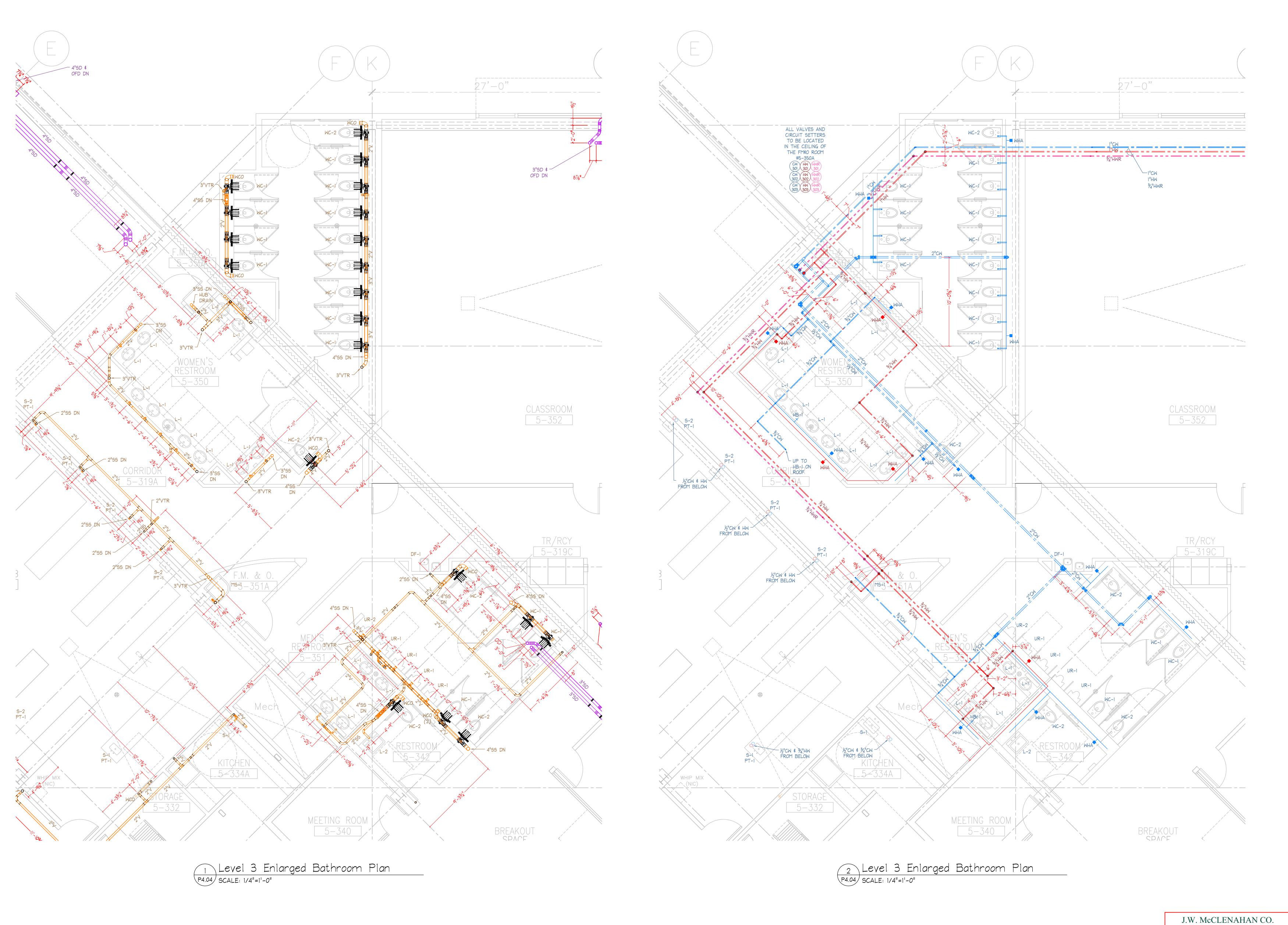
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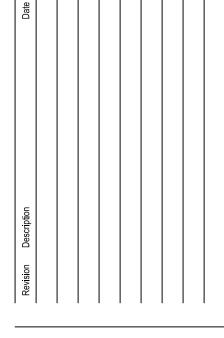


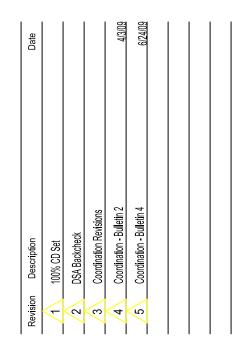


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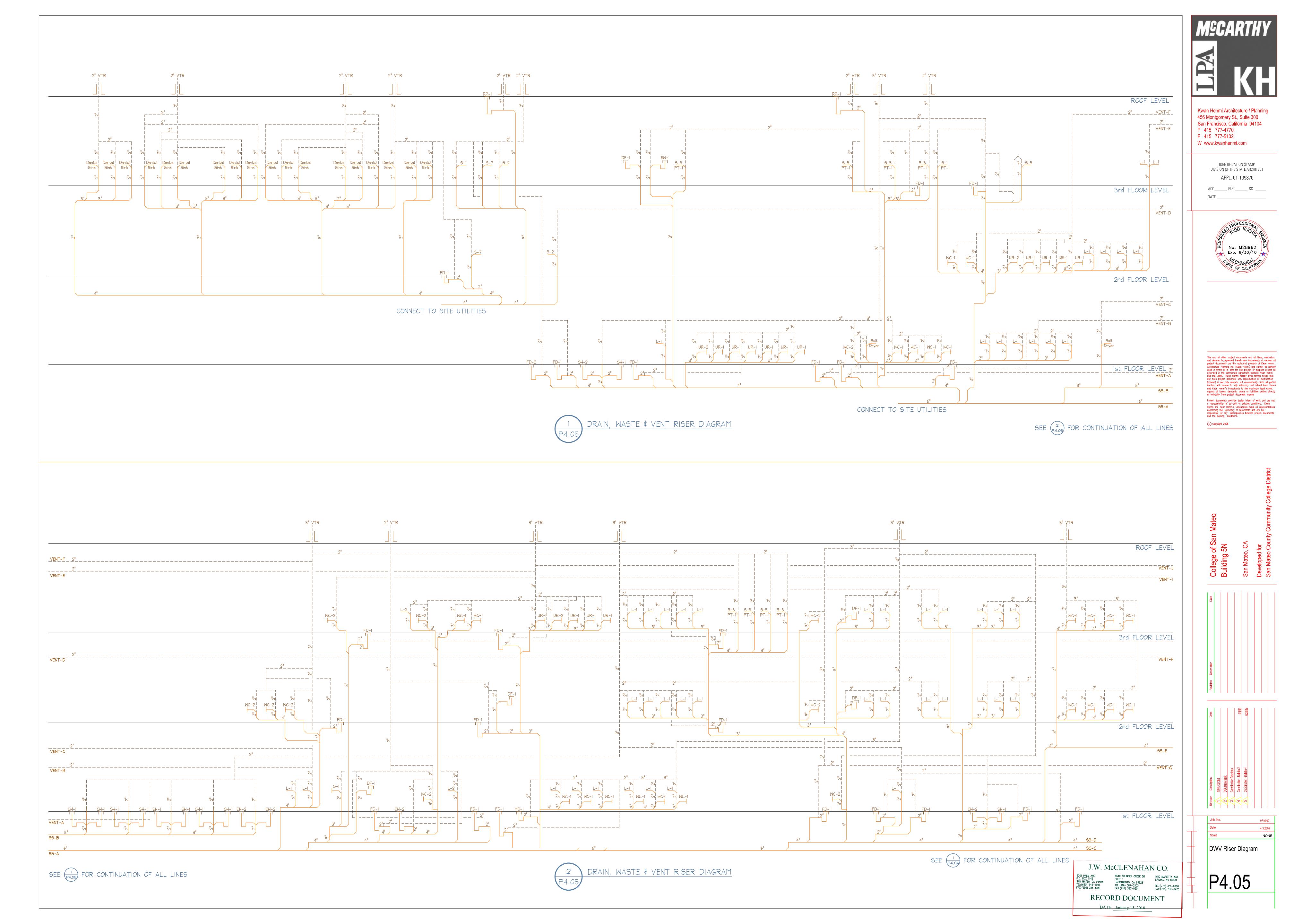
4.3.2009 1/4" = 1'-0"

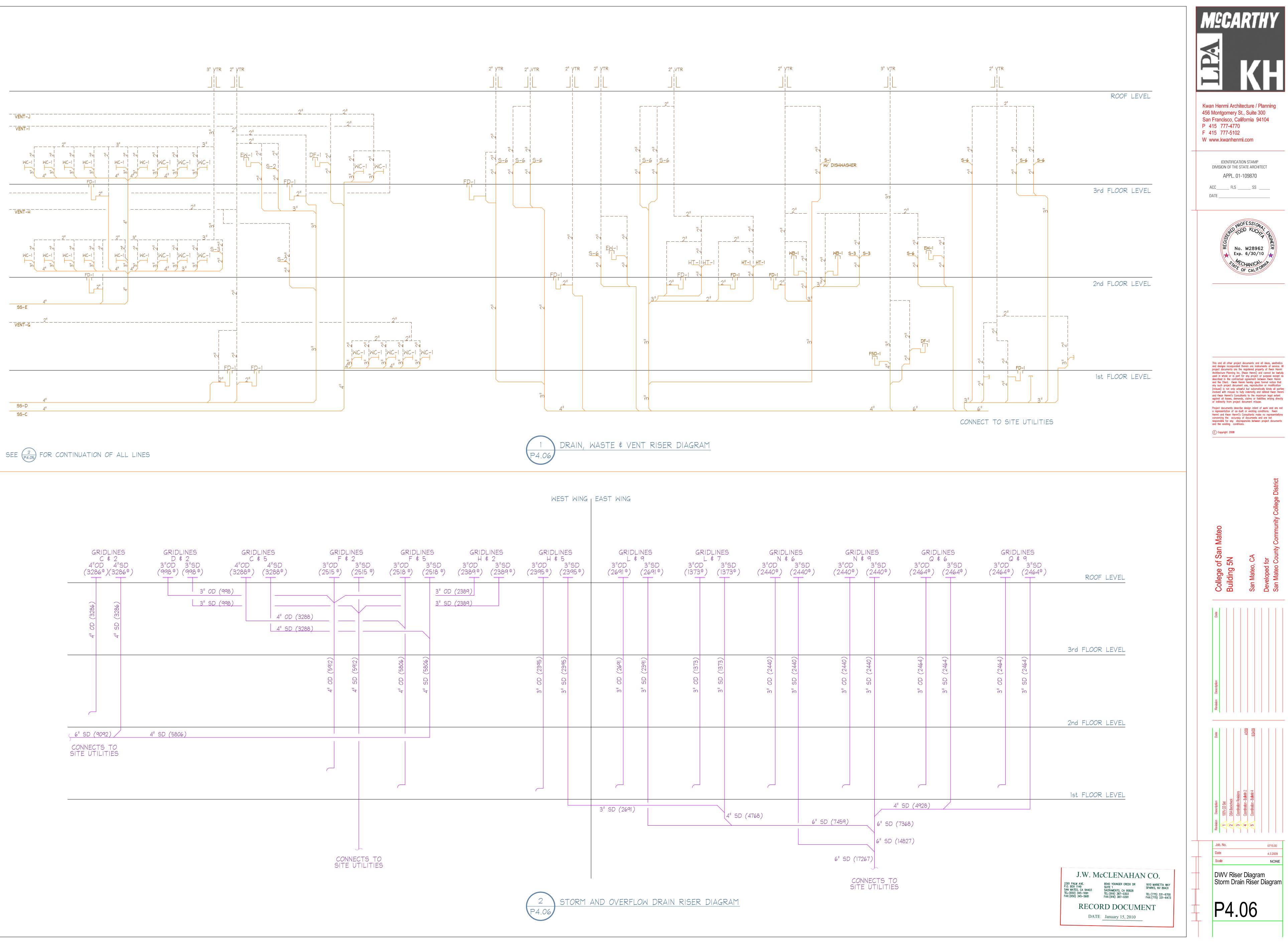
Enlarged Plumbing Plans

P4.04

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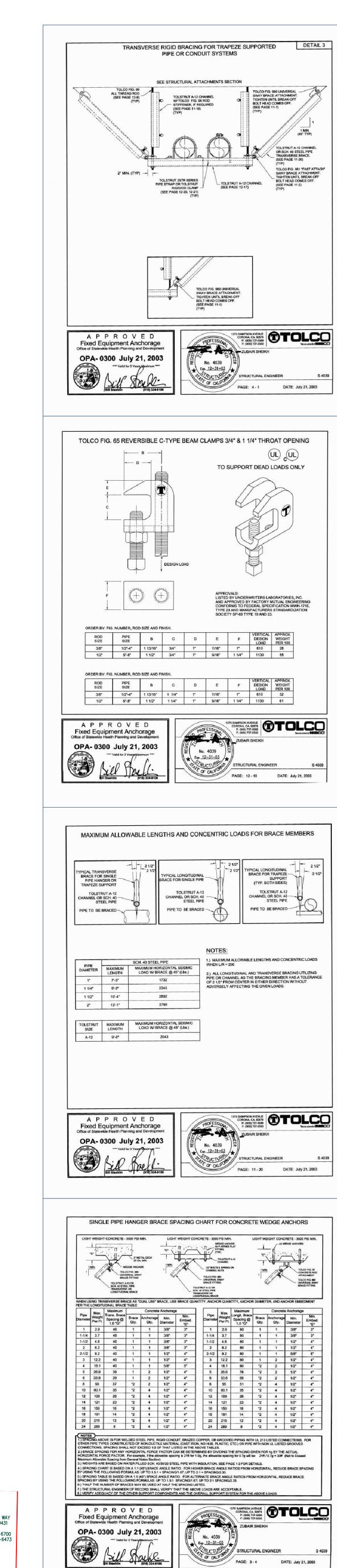
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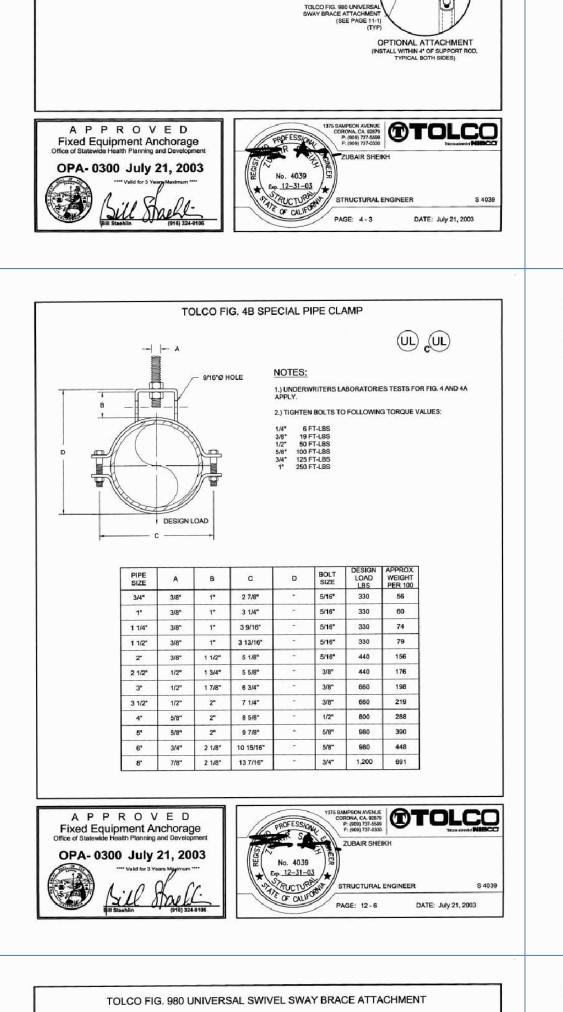


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(IL) C(IL)

TRANSVERSE AND LONGITUDINAL COMBINATION RIGID BRACING DETAIL 3/4

FOR TRAPEZE SUPPORTED PIPE OR CONDUIT SYSTEMS

SEE OPTIONAL ____

MAXIMUM HORIZONTAL SEISMIC LOAD W/ BRACE @ 45°

1,424 Lbs.

BRACE MAY BE TOLSTRUT A-12 CHANNEL, SCH. 40 STEEL PIPE, OR OTHER APPROVED MEMBER

No. 4039

SINGLE PIPE HANGER BRACE SPACING CHART FOR CONCRETE WEDGE ANCHORS

1 MIN 10 FORMUL A-12 CHANNEL 1 SPING OR CHANNEL MUTS

WHEN USING TRANSVERSE BRACE AS 'DUAL USE" BRACE, USE BRACE QUANTITY, ANCHOR QUANTITY, ANCHOR DIAMETER, AND ANCHOR EMBEDMENT

PER THE LONGITUDINAL BRACE TABLE

Pipe
Diameter Per Ft. USE Spacing Q
Diameter Concrete Anchorage

Brace Anchors Min. Per Brace Diameter Per Free Diameter Cert

STRUCTURAL ENGINEER
PAGE: 11-1

PAGE: 11 - 1 DATE: July 21, 2003

(4) WEDGE ANCHORS

TOLEO FIG. 36 CONCRETE NOD ATTACHMENT TOLEO FIG. 96 INNVISIBAL SHAY

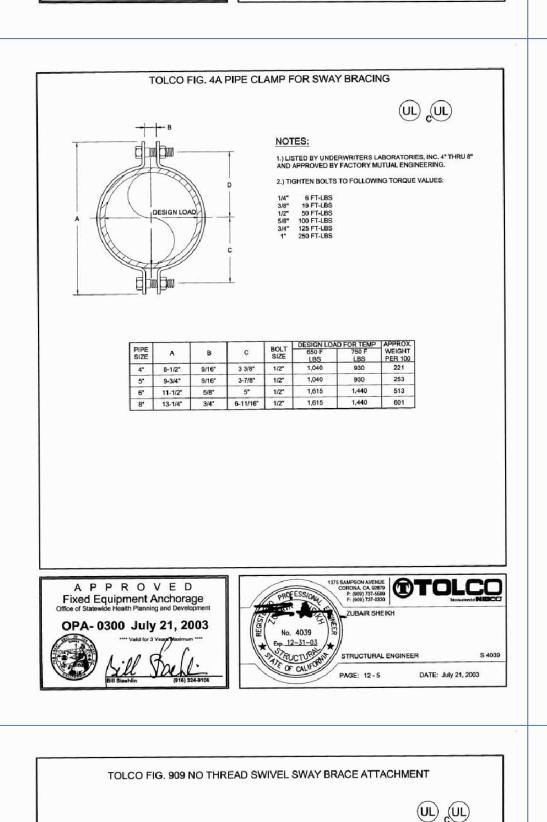
UL TEST CRITERIA ALLOWS FOR MAXIMUM DESIGN LOAD OF 2,765 Lbs. (1,954 Lbs. HORIZONTAL LOAD) MAX. ROD SIZE 3/4", FOR LARGER ROD DIAMETERS USE FIG. 980H

APPROVED

Fixed Equipment Anchorage
Office of Statewide Health Planning and Development

OPA- 0300 July 21, 2003

3' METAL DECX 20 GA, MIN. VICTOE ANCHOR TOLGO PIO, 500 UNIONERSAL SWAY BRACE FITTING



DETAIL 4

OPTIONAL ATTACHMENT (INSTALL WITHIN 4" OF SUPPORT ROD TYPICAL BOTH SIDES)

PAGE: 4 - 2 DATE: July 21, 2003

TOLCO

LONGITUDINAL RIGID BRACING FOR TRAPEZE

SUPPORTED PIPE OR CONDUIT SYSTEMS

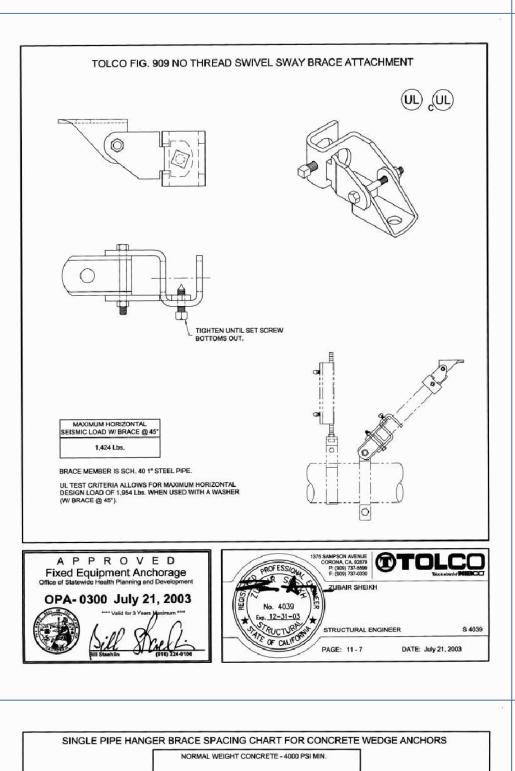
TOLSTRUT 2STR SERIES
PIPE STRAP OR TOLSTRUT
RIGID/OD CLAMP =
(SEE PAGE 12-20, 12-21)

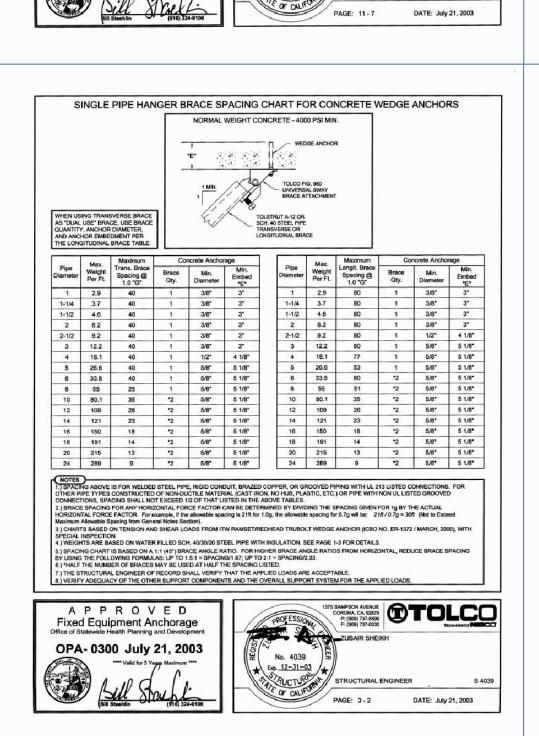
TOLSTRUT A-12 CHANNEL (SEE PAGE 11-20) (TYP)

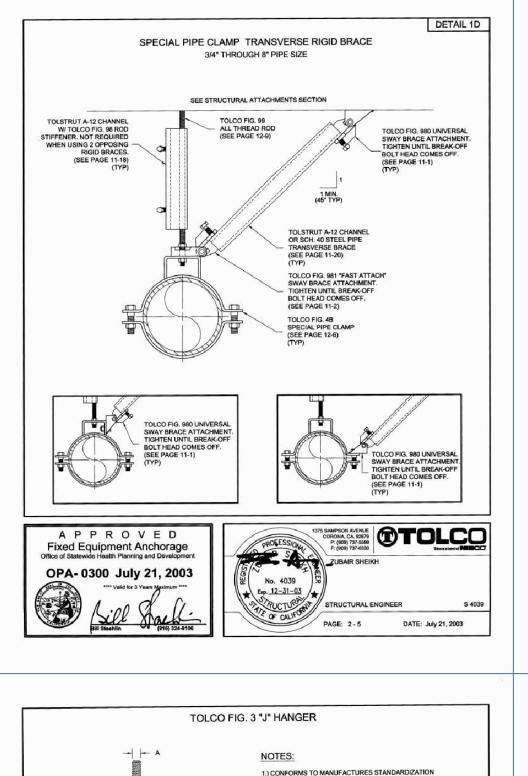
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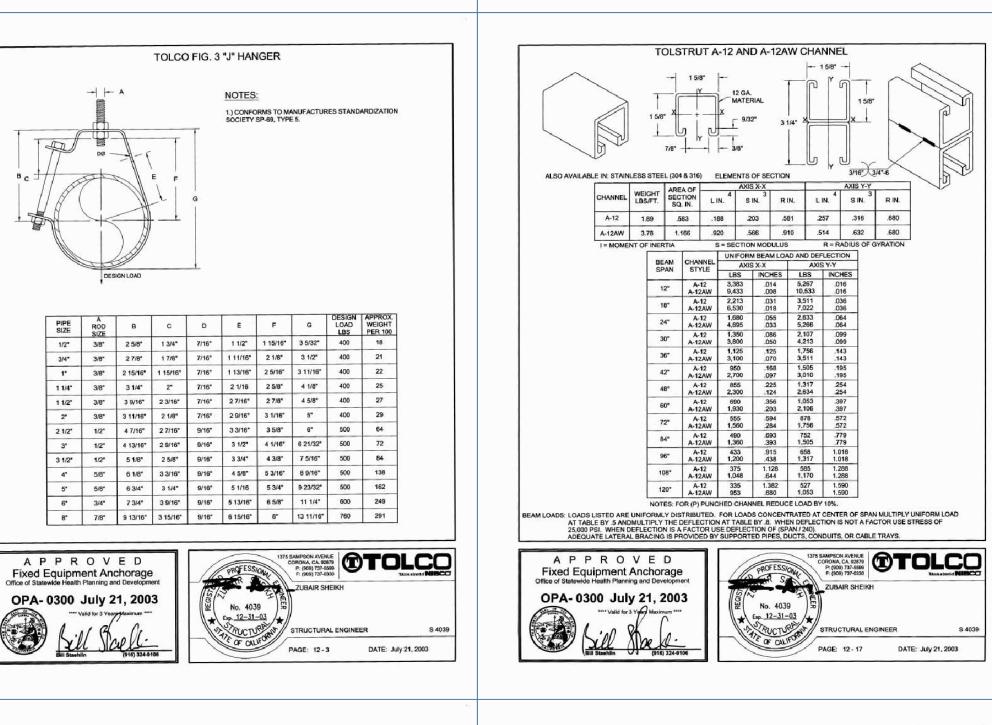
Fixed Equipment Anchorage
Office of Statewide Health Planning and Developmen

OPA-0300 July 21, 2003









SPECIAL PIPE CLAMP LONGITUDINAL RIGID BRACE

3/4" THROUGH 8" PIPE SIZE

SEE STRUCTURAL ATTACHMENTS SECTION

Exp. 12-31-03

TOLCO FIG. 98 ROD STIFFENER

TOLCO FIG. 98

ROD STIFFENER.
*RECOMMENDED

TORQUE 8 FT-LBS

TOLSTRUT A-12 CHANNEL

TOLCO FIG. 99 ALL THREAD ROD

TOLCO FIG. 98U ROD STIFFENER.

3/8" THRU 7/8" ROD SIZE

1" THRU 1-1/4" ROD SIZE

#375 SAMPRON AVENUE CORONA, CA 9/2879 P. (909) 737-5599 P. (909) 737-5599 P. (909) 737-5599

6" MAX. DISTANCE FROM TOP OF HANGER ROD TO FIRST STIFFENER

MAX. SPACING BETWEEN FIG. 98 (SEE CHART)

6" MAX. DISTANCE FROM TOP OF HANGER TO FIRST STIFFENER

MAX. ROD
LENGTH WITHOUT
STIFFENER
TOLCO FIG. 98

19"
13"

ROD STIFFENERS ARE REQUIRED ONLY ON HANGER AND TRAPEZE ASSEMBLIES THAT HAVE SEISMIC BRACING ATTACHED AT OR WITHIN 4" OF THE ROD. A MINIMUM OF TWO STIFFENERS MUST BE INSTALLED.

*RECOMMENDED TORQUE IS 8 FT-LBS. (OR FINGER TIGHT PLUS ONE FULL TURN WITH A WRENCH).

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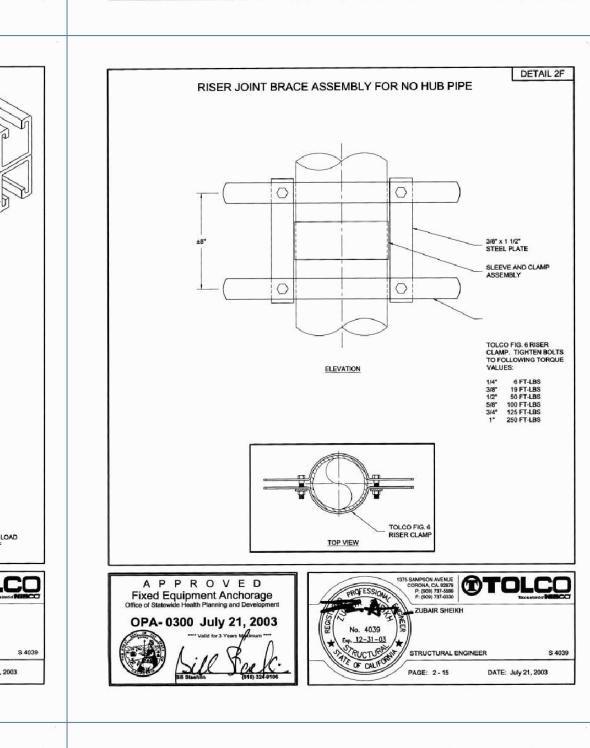
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OPA-0300 July 21, 2003

**** Valid for 3 Years Maximum ****

Fixed Equipment Anchorage
Office of Statewide Health Planning and Development

PAGE: 2-10 DATE: July 21, 2003



"J" HANGER TRANSVERSE RIGID BRACE

SEE STRUCTURAL ATTACHMENTS SECTION

TOLSTRUT A-12 CHANNEL OR SCH. 40 STEEL PIPE TRANSVERSE BRACE (SEE PAGE 11-20) (TYP)

TOLCO FIG. 3

"J" HANGER

(SEE PAGE 12-3)

Exp. 12-31-03

TOLCO FIG. 981 "FAST ATTACH" SWAY BRACE ATTACHMENT. TIGHTEN UNTIL BREAK-OFF BOLT HEAD COMES OFF. (SEE PAGE 11-2)

TOLCO FIG. 980 UNIVERSAL SWAY BRACE ATTACHMENT TIGHTEN UNTIL BREAK-OFF

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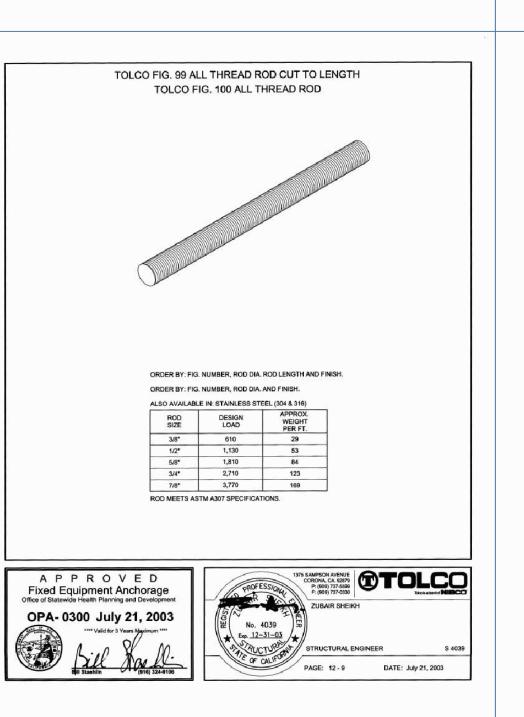
PAGE: 2-3 DATE: July 21, 2003

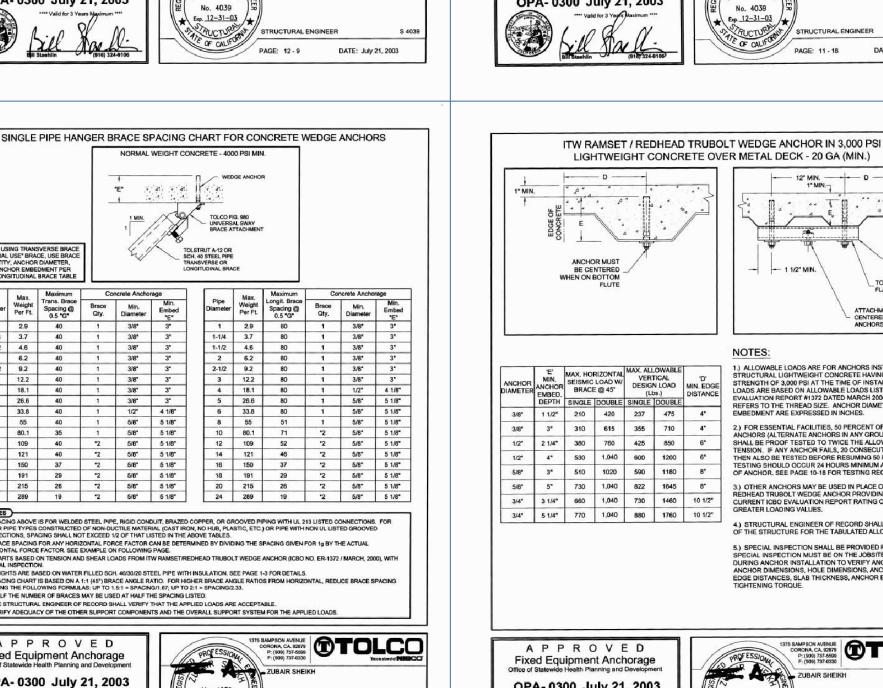
TOLSTRUT A-12 CHANNEL
W/TOLCO FIG. 98 ROD
STIFFENER, NOT REQUIRED
WHEN USING 2 OPPOSING
RIGID BRACES,
(SEE PAGE 11-18)

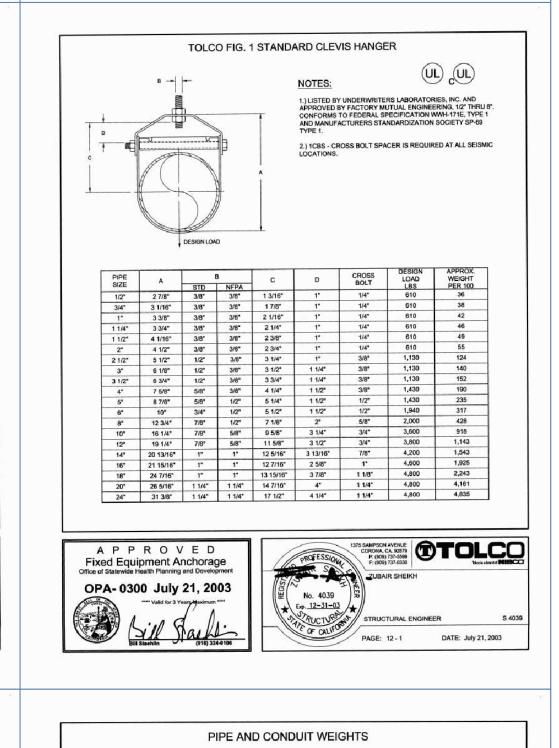
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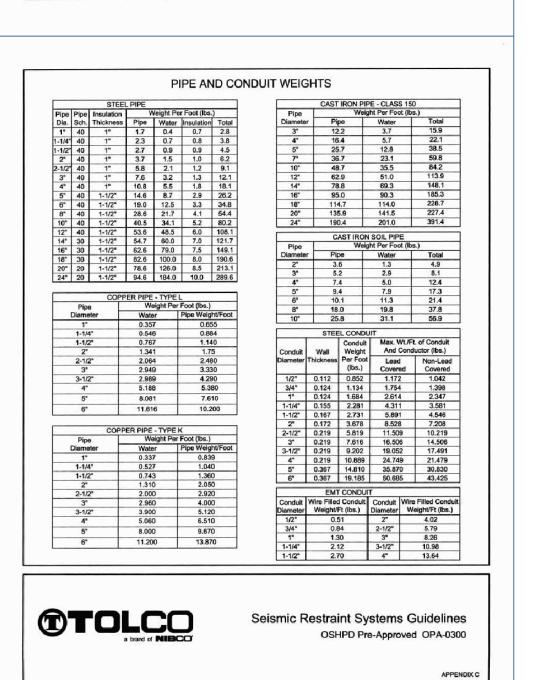
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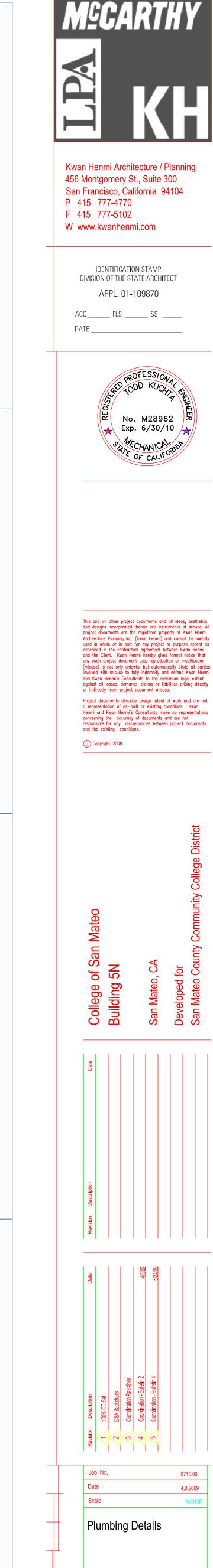
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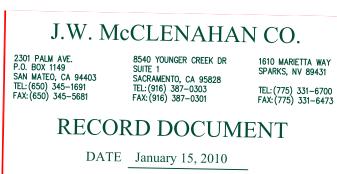


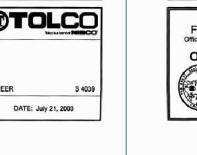


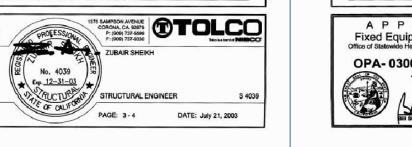


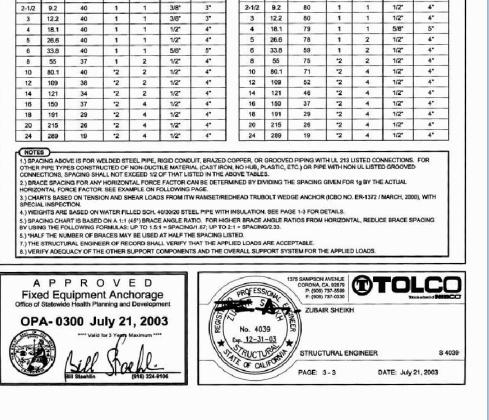


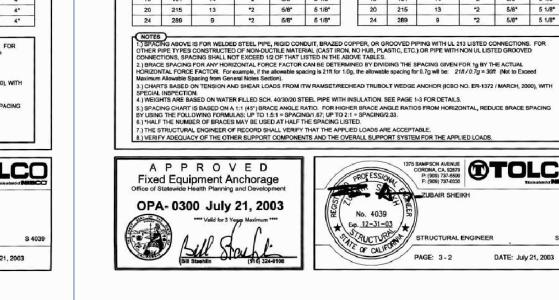
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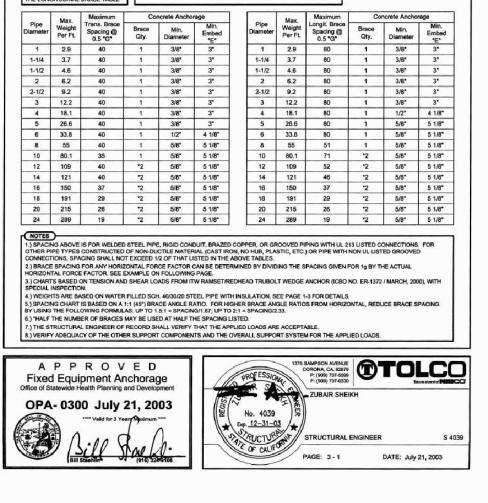


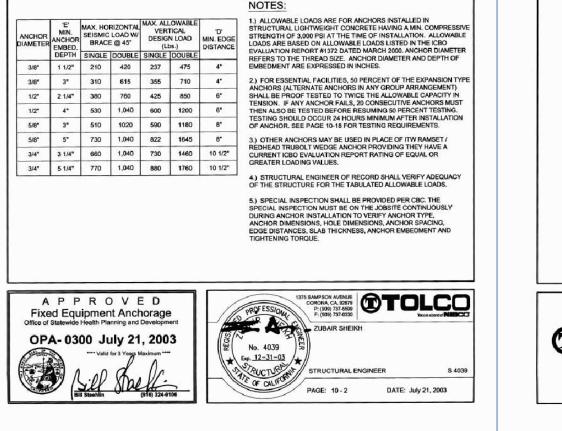


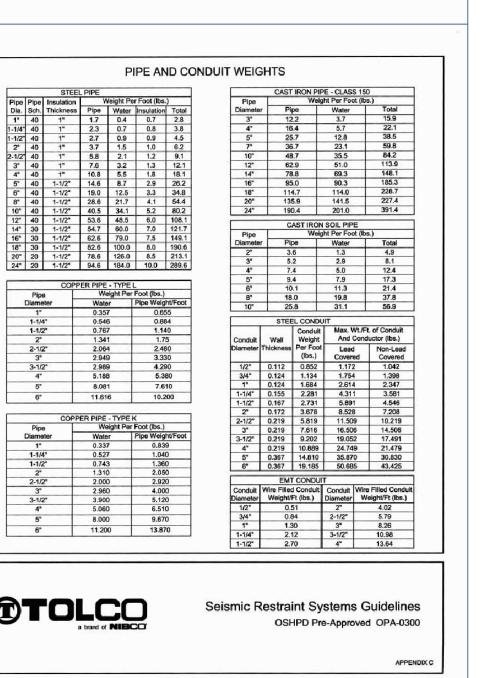














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2 DSA Backcheck
3 Coordination Revisions
4 Coordination - Bulletin 2 4/3/09
5 Coordination - Bulletin 4 6/24/09

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Date 4.3.

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Plumbing Details

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P9.02