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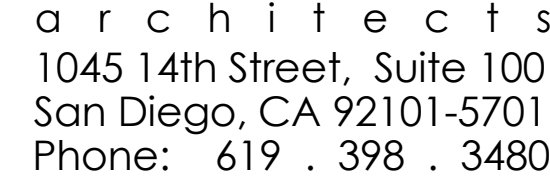
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SP101	THIRD FLOOR POOL PLAN
SP201	THIRD FLOOR POOL DETAILS
SP202	THIRD FLOOR POOL DETAILS
SP203	THIRD FLOOR POOL EQUIPMENT DETAILS

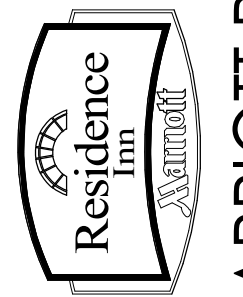
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REGISTERED ARCHITECT
 CERTIFICATE NO.
 38897
 CLIFFORD W.
 COOK
 05/18/15
 Date Signed...
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Phoenix, Arizona

CHECKED: SWM

PROJECT NO.: 12-1601

SHEET INDEX

SHEET NO.: 101

T0.1

FINAL FOR CONSTRUCTION - 05/18/15

WATER CALCULATIONS

BASEMENT TO FOURTH FLOORS

HORIZONTAL PIPE LENGTH

TAP TO METER	=	10 FT.
METER TO LAST FIXTURE	=	150 FT.
VERTICAL RISE	=	50 FT.
VALVES AND FITTINGS (20%)	=	40 FT.

TOTAL LENGTH = 250 FT.

P.S.I. LOSS

RISE 50 x 0.43	=	21.5 P.S.I.
6" METER	=	3.5 P.S.I.
TAP	=	2.0 P.S.I.
FIXTURE	=	25.0 P.S.I.
BACKFLOW PREVENTER	=	12.0 P.S.I.

TOTAL LOSS = 64.0 P.S.I.

TOTAL F.U. 3075.5 = 435 GPM		
STREET PRESS	=	75.0 P.S.I.
- TOTAL LOSS	=	64.0 P.S.I.
DIFFERENCE	=	11.0 P.S.I.

11 P.S.I. DIFFERENCE x 100 = 4.4 MAX. P.S.I. DROP ALLOWABLE / 100 FT. OF PIPE

WATER CALCULATIONS

TENTH TO NINETEENTH FLOORS (BP-3)

HORIZONTAL PIPE LENGTH

FROM BP-3 TO LAST FIXTURE	=	150 FT.
VERTICAL RISE	=	205 FT.
VALVES AND FITTINGS (20%)	=	70 FT.

TOTAL LENGTH = 425 FT.

P.S.I. LOSS

RISE 205 x 0.43	=	88.0 P.S.I.
FIXTURE	=	8.0 P.S.I.
PRESSURE REDUCING VALVE	=	5.8 P.S.I.

TOTAL LOSS = 101.8 P.S.I.

TOTAL F.U. 1450 = 265 GPM		
PUMP PRESS	=	150.0 P.S.I.
- TOTAL LOSS	=	101.8 P.S.I.
DIFFERENCE	=	48.2 P.S.I.

48.2 P.S.I. DIFFERENCE x 100 = 11.3 MAX. P.S.I. DROP ALLOWABLE / 100 FT. OF PIPE

WATER CALCULATIONS

FIFTH TO NINTH FLOORS (BP-2)

HORIZONTAL PIPE LENGTH

FROM BP-2 TO LAST FIXTURE	=	150 FT.
VERTICAL RISE	=	105 FT.
VALVES AND FITTINGS (20%)	=	50 FT.

TOTAL LENGTH = 305 FT.

P.S.I. LOSS

RISE 105 x 0.43	=	45.0 P.S.I.
FIXTURE	=	8.0 P.S.I.
PRESSURE REDUCING VALVE	=	5.8 P.S.I.

TOTAL LOSS = 58.8 P.S.I.

TOTAL F.U. 750 = 170 GPM		
PUMP PRESS	=	100.0 P.S.I.
- TOTAL LOSS	=	58.8 P.S.I.
DIFFERENCE	=	41.2 P.S.I.

41.2 P.S.I. DIFFERENCE x 100 = 13.5 MAX. P.S.I. DROP ALLOWABLE / 100 FT. OF PIPE

WATER CALCULATIONS

TWENTIETH FLOOR (BP-1)

HORIZONTAL PIPE LENGTH

FROM BP-1 TO LAST FIXTURE	=	150 FT.
VERTICAL RISE	=	220 FT.
VALVES AND FITTINGS (20%)	=	75 FT.

TOTAL LENGTH = 445 FT.

P.S.I. LOSS

RISE 220 x 0.43	=	94.6 P.S.I.
FIXTURE	=	25.0 P.S.I.
PRESSURE REDUCING VALVE	=	5.8 P.S.I.

TOTAL LOSS = 125.4 P.S.I.

TOTAL F.U. 2000 = 325 GPM		
PUMP PRESS	=	180.0 P.S.I.
- TOTAL LOSS	=	125.4 P.S.I.
DIFFERENCE	=	54.6 P.S.I.

54.6 P.S.I. DIFFERENCE x 100 = 12.3 MAX. P.S.I. DROP ALLOWABLE / 100 FT. OF PIPE

DOMESTIC WATER PIPE SIZING CHART

PIPE SIZE	BASED ON 5 PSI DROP / 100 FT OF PIPE MAX	
	MAX FU FLUSH VALVE	MAX FU FLUSH TANK
3/4"	-	7
1"	-	18
1-1/4"	7	38
1-1/2"	25	79
2"	133	250
2-1/2"	550	625
3"	1100	1100
4"	2475	2475

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	W	V	CW	HW	REMARKS
WC	WATER CLOSET	4"	2"	1"	-	FLUSH VALVE, WALL MOUNT
WC	WATER CLOSET	3"	2"	1/2"	-	FLUSH TANK, FLOOR MOUNT
UR	URINAL	2"	1-1/2"	3/4"	-	WALL MOUNT
LAV	LAVATORY	2"	1-1/2"	1/2"	1/2"	
KS	KITCHEN SINK	2"	1-1/2"	1/2"	1/2"	
LS	LAUNDRY SINK	2"	1-1/2"	1/2"	1/2"	
MS	MOP SINK	3"	1-1/2"	3/4"	3/4"	
BT	BATH TUB/SHOWER	2"	1-1/2"	3/4"	3/4"	
HB	HOSE BIBB	-	-	3/4"	-	WITH VACUUM BREAKER
FD	FLOOR DRAIN	2" UNO	1-1/2" UNO	-	-	
FS	FLOOR SINK	2" UNO	1-1/2" UNO	-	-	
WB	WASHER BOX	2"	1-1/2"	3/4"	3/4"	
IMB	ICE MAKER BOX	-	-	1/2"	-	
EEW	EMERGENCY EYE WASH	-	-	1/2"	1/2"	PROVIDED WITH MIXING VALVE SET TO DELIVER 95 DEGREE F. WATER

FIXTURE UNIT CALCULATION

MARK	DESCRIPTION	QTY	2006 UPC APPENDIX A			
			FU EACH		TOTAL FU	
			WASTE	WATER	WASTE	WATER
WC	WATER CLOSET (FLUSH VALVE, 1.6 GPF) (PUBLIC)	39	4	5	156	195
WC	WATER CLOSET (FLUSH TANK, 1.6 GPF) (PRIVATE)	320	3	2.5	960	800
UR	URINAL (1.0 GPF)	7	2	4	14	28
LAV	LAVATORY	344	1	1	344	344
HS	HAND SINK	5	2	2	10	10
KS	KITCHEN SINK (RESID.)	200	2	1.5	400	300
BS	BREAKROOM SINK	1	2	2	2	2
LS	LAUNDRY SINK	1	2	2	2	2
SK	3-COMPARTMENT SINK	1	6	8	6	8
MS	MOP SINK	4	3	3	12	12
BT	BATH TUB/SHOWER	320	2	4	640	1280
HB	1ST HOSE BIBB	1	-	2.5	-	2.5
HB	ADDITIONAL HOSE BIBB	14	-	1	-	14
FD	2" FLOOR DRAIN	11	2	-	22	-
FD	3" FLOOR DRAIN	4	6	-	24	-
FS	2" FLOOR SINK	15	4	-	60	-
FS	3" FLOOR SINK	13	6	-	78	-
FS	4" FLOOR SINK	9	8	-	72	-
ACW	AUTOMATIC CLOTHES WASHER	7	3	4	21	28
SH	POOL AREA SHOWER	1	2	4	2	4
LT	4" LINT TROUGH	3	8	-	24	-
-	KITCHEN FIXTURES	23	-	2	-	46
TOTALS					2849	3075.5
					EQUIVALENT GPM 435	

NOTES:

- WATER FIXTURE UNITS = 3,075.5 = 435 GPM. USE 6" BUILDING SUPPLY WITH 6" COMPOUND METER.
- DRAIN FIXTURE UNITS = 2,849. USE 10" BUILDING SEWER MAIN.

GREASE INTERCEPTOR SIZING

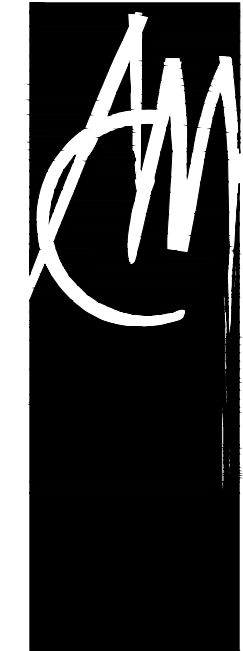
- CONNECTED FIXTURES:
 - MS-1 MOP SINK
 - 2-087 PREP TABLE
 - 2-102 3-COMPARTMENT POT SINK
 - 2-115 COMB-OVEN STEAMER
 - 2-116 TILT-SKILLET
 - 2-120 CONV. STEAMER/KETTLE
 - 2-122 CHEF'S COUNTER
 - 2-128 2-WELL HOT FOOD COUNTER
 - 2-143 WASH WASHER
 - 2-146 DISHWASHER
 - 2-147 DISHWASHER
 - 11 FIXTURES x 3 DFU = 33 DFU
- 33 FUS x 3 GPM / FU x 12 MINUTE RETENTION TIME = 1,188 GALLONS MINIMUM STORAGE CAPACITY
- USE "JENSEN PRECAST" MODEL NO. CL1500CE-G, 1500 GALLON STORAGE 3-COMPARTMENT INDUSTRIAL WASTE INTERCEPTOR" WITH CONCRETE EXTENSION RINGS AND AIRTIGHT TRAFFIC COVERS. INSTALL IN ACCORDANCE WITH COP STANDARDS AND GREASE WASTE INTERCEPTOR REQUIREMENTS.

PLUMBING LEGEND

SYMBOL	ABBR	DESCRIPTION
---	W	WASTE PIPING
---GW---	GW	KITCHEN GREASE WASTE PIPING
----	V	VENT PIPING
---	CW	COLD WATER PIPING
---	SCW	SOFT COLD WATER PIPING
---	HW	SOFT HOT WATER PIPING
---165°---	HW (165°F)	HOT WATER AT 165°F PIPING (ALL OTHER HW PIPING AT 124°F)
---	HW	SOFT HOT WATER PIPING
---165°---	HW (165°F)	HOT WATER RETURN AT 165°F PIPING (ALL OTHER HW PIPING AT 124°F)
SYSTEM TYPE		ABOVE GRADE PIPING: CONDENSATE DRAIN PIPING EQUIPMENT DRAIN PIPING FIRE LINE PIPING NATURAL GAS PIPING OVERFLOW DRAIN LEADER PIPING ROOF DRAIN LEADER PIPING
PIPE SIZE		
---	GV	GATE VALVE
---	CL	BALL VALVE
---	CHK	CHECK VALVE
---	---	BUTTERFLY VALVE
---	---	UNION
---	---	LUBRICATED PLUG VALVE
---	DN	RISER DOWN
---	UP	RISER UP
---	RPBFP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
---	PRV	PRESSURE REDUCING VALVE
---	---	BALANCING VALVE
---	FOO	FLOOR CLEAN OUT
---	SCO	SURFACE CLEAN OUT
---	WCO	WALL CLEAN OUT
---	CO	CLEAN OUT
---	RO/D	ROOF DRAIN / OVERFLOW DRAIN
---	VTR	VENT THROUGH ROOF
---	HB	HOSE BIBB
---	FS	FLOOR SINK
---	FD	FLOOR DRAIN
---	WHA	WATER HAMMER ARRESTOR
---	FDC	FIRE DEPARTMENT CONNECTION
---	---	FIRE SPRINKLER RISER
---	BELL	BELL
---	POC	POINT OF CONNECTION
---	---	THIS SYMBOL DENOTES FOOD SERVICE AND LAUNDRY EQUIPMENT PLUMBING ITEMS BY OTHERS. REFER TO SHEETS FS&L-2 AND FS&L-3.

ABBREVIATIONS

#	NUMBER	IN HG	INCHES MERCURY
#P###	DETAIL # ON SHEET P###	IW	INDIRECT WASTE
D	DEGREES FAHRENHEIT	KW	KILOWATT
A	ACTUAL CFM	LAT	LEAVING AIR TEMPERATURE
ACFM	ACTUAL CFM	LBS	POUNDS
ADA	AMERICANS WITH DISABILITIES ACT	LF	LINEAR FOOT
AF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MBH	THOUSAND BTU PER HOUR
AMB	AMBIENT	MCA	MINIMUM CIRCUIT AMPS
AP	ACCESS PANEL	MIN	MINIMUM
AV	AUTOMATIC AIR VENT	MOCP	MAXIMUM OVER CURRENT PROTECTION
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BFG	BELOW FINISHED GRADE	NC	NOT IN CONTRACT
BTUH	BRITISH THERMAL UNITS PER HOUR	NO	NORMALLY OPEN
CAP	CAPACITY	NTS	NOT TO SCALE
CFH	CUBIC FEET PER HOUR	OPER	OPERATING
CFM	CUBIC FEET PER MINUTE	P&T	PRESSURE AND TEMPERATURE
CLG	COOLING	PD	PRESSURE DROP
CMR	COMPRESSOR	PH	PHASE
CONC	CONCRETE	PLUM	PLUMBING
CONT	CONTINUOUS OR CONTINUATION	PRESS	PRESSURE
CU FT	CUBIC FEET	PSI	POUNDS PER SQUARE INCH
CW	COLD WATER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
DB	DECIBELS	PSIG	POUNDS PER SQUARE INCH GAGE
DB	DRY BULB TEMPERATURE	QTY	QUANTITY
DIA OR Ø	DIAMETER	REQD	REQUIRED
DN	DOWN	RFF	REFERENCED FINISHED FLOOR
DWG	DRAWING(S)	RFM	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	CFM AT STD	CFM AT STANDARD CONDITIONS
EFF	EFFICIENCY	SQ FT	SQUARE FEET OR SQUARE FOOT
ELEV	ELEVATION	SOV	SHUT-OFF VALVE
EXT	EXTERNAL	SQ	SQUARE
FD	FLOOR DRAIN	SYS	SYSTEM
FF	FINISHED FLOOR	TEMP	TEMPERATURE
FLA	FULL LOAD AMPS	TP	TRAP PRIMER
FOB	FLOOR OUTLET BOX	TOT	TOTAL
FS	FLOOR SINK	TW	TEMPERED WATER
FSR	FIRE SPRINKLER RISER	TYP	TYPICAL
FT	FEET OR FOOT	UNO	UNLESS NOTED OTHERWISE
FU	FIXTURE UNITS	V	VENT OR VENTS
GA	GAGE	VERT	VERTICAL
GAL	GALLONS	VOL	VOLUME
GPH	GALLONS PER HOUR	W	WATTS
GPM	GALLONS PER MINUTE	W	WITH
GRS	GRAINS	WO	WITHOUT
HORIZ	HORIZONTAL	WC	WATER COLUMN
HP	HORSE POWER	WOB	WALL OUTLET BOX
H	HEIGHT	WT	WEIGHT
HW	HOT WATER		
IE	INVERT ELEVATION		



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CONSULTANTS:



REVISIONS:
CONSTRUCTION BID SET 03/09/2015
ADDENDUM A 02/02/2015
INSTRUCTION BULLETIN 1 02/23/2015
INSTRUCTION BULLETIN 2 05/11/2015

PROJECT:

**MARRIOTT RESIDENCE INN
- COURTYARD @ LUHRS**
A Development of - LUHRS CM, LLC
Phoenix, Arizona

DRAWN: **LRW**

CHECKED: **RAB**

DATE: **08/22/14**

PROJECT NO.: **12-1601**

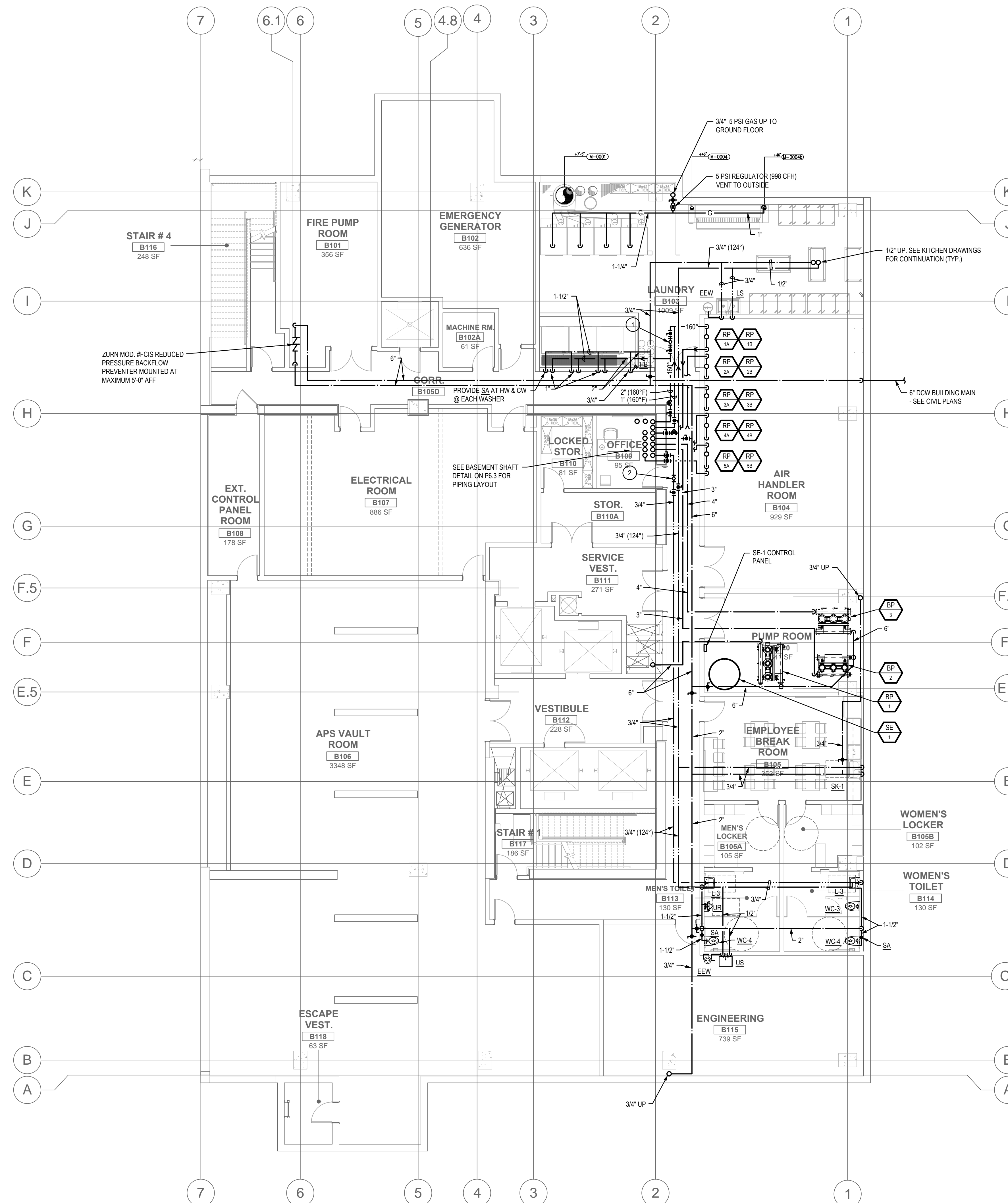
SHEET TITLE:

**PLUMBING LEGEND,
ABBREVIATIONS,
SCHEDULES AND
CALCULATIONS**

SHEET NO.:

P0.1

FINAL FOR CONSTRUCTION - 05/18/15



KEYED NOTES (3)

1. PROVIDE BALL VALVES AND FLOW CONTROL VALVE FACTORY SET AT 3 GPM.
2. PROVIDE BALL VALVES AND FLOW CONTROL VALVE FACTORY SET AT 2 GPM.

GENERAL NOTES

1. REFER TO FIXTURE CONNECTION SCHEDULE ON P0.1 FOR PIPE CONNECTION SIZES FOR ALL FIXTURES.

BASEMENT PLUMBING FLOOR PLAN - WATER AND GAS PIPING
NORTH
SCALE: 1/8" = 1'-0"

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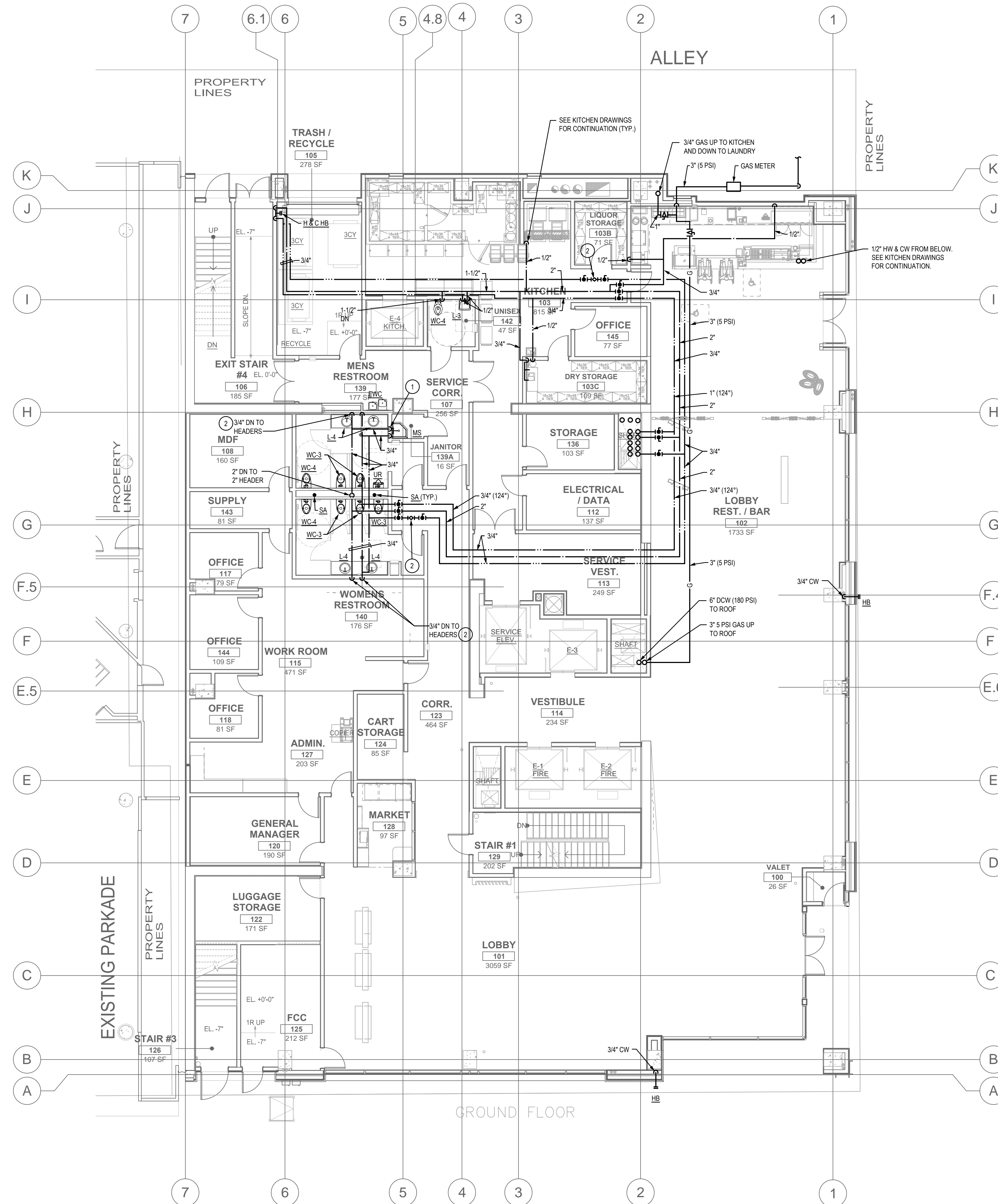
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SHEET TITLE:
**BASEMENT
PLUMBING FLOOR
PLAN - WATER AND
GAS PIPING**

SHEET NO.:
P2.0



KEYED NOTES (Ⓢ)

1. PROVIDE 3/4" CW REDUCED PRESSURE BACKFLOW PREVENTER FOR CHEMICAL DISPENSER AT MOP SINK.
2. PROVIDE BALL VALVES AND FLOW CONTROL VALVE FACTORY SET AT 1 GPM.
3. PROVIDE AND INSTALL ONE "LEONARDO" MODEL 170-1F EXPOSED ON WALL BELOW EACH LAVATORY AND SET TO DELIVER 110 DEGREE F. OUTLET TEMPERATURE.

GENERAL NOTES

(SHEET SPECIFIC)

1. REFER TO FIXTURE CONNECTION SCHEDULE ON P0.1 FOR PIPE CONNECTION SIZES FOR ALL FIXTURES.
2. PROVIDE WATER SUPPLY WITH WALL MOUNTED "WATTS" SERIES 008PCQT OR APPROVED EQUAL FOR ALL ICE MACHINES, BEVERAGE DISPENSERS AND CHEMICAL DISPENSER AT ALL MOP SINKS.
3. PROVIDE WATER SUPPLY WITH WALL MOUNTED "WATTS" MODEL 1170-US-M2 OR APPROVED EQUAL FOR ALL KITCHEN HAND SINKS AND SET DELIVERY TEMPERATURE AT 105°F.



GROUND FLOOR PLUMBING PLAN - WATER AND GAS PIPING

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



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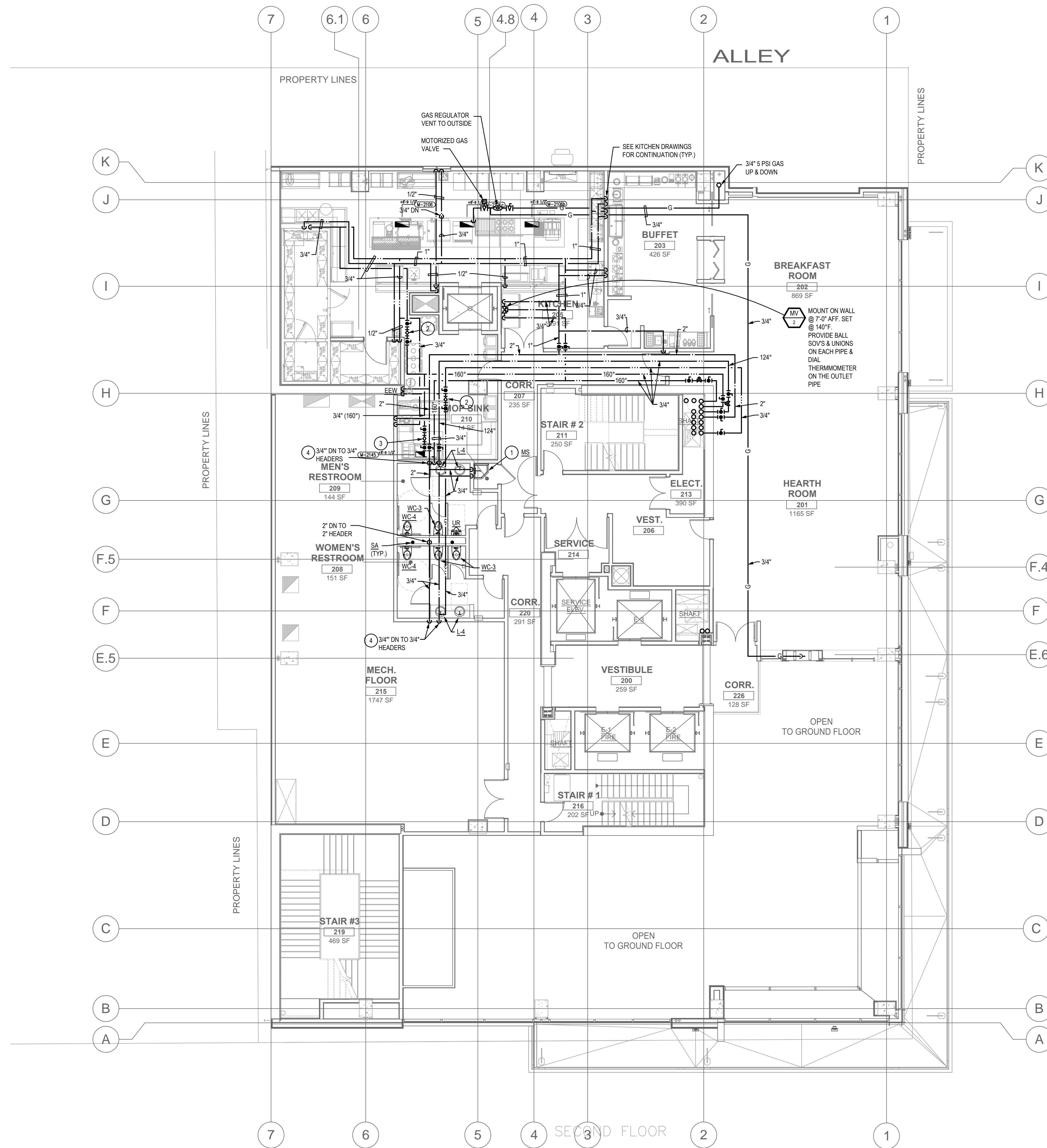
SHEET TITLE:
**GROUND FLOOR
PLUMBING PLAN -
WATER AND GAS
PIPING**

SHEET NO.:

P2.1

FINAL FOR CONSTRUCTION - 05/18/15

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KEYED NOTES (3)

1. PROVIDE 3/4" CW REDUCED PRESSURE BACKFLOW PREVENTER FOR CHEMICAL DISPENSER AT MOP SINK.
2. PROVIDE BALL VALVES AND FLOW CONTROL VALVE FACTORY SET AT 1 GPM.
3. PROVIDE BALL VALVES AND FLOW CONTROL VALVE FACTORY SET AT 2 GPM.
4. PROVIDE AND INSTALL ONE "LEONARD" MODEL 170-1F EXPOSED ON WALL BELOW EACH LAVATORY AND SET TO DELIVER 110°F. OUTLET TEMPERATURE.
5. PROVIDE BALL VALVE, SHOCK ABSORBER AND UNION ON HOT WATER LINE TO DISHWASHER.

GENERAL NOTES

(SHEET SPECIFIC)

1. REFER TO FIXTURE CONNECTION SCHEDULE ON P.1 FOR PIPE CONNECTION SIZES FOR ALL FIXTURES.
2. PROVIDE WATER SUPPLY WITH WALL MOUNTED "WATTS" SERIES 008PCOT OR APPROVED EQUAL FOR ALL ICE MACHINES, BEVERAGE DISPENSERS AND CHEMICAL DISPENSER AT ALL MOP SINKS.
2. PROVIDE WATER SUPPLY WITH WALL MOUNTED "WATTS" MODEL 1170-US-M2 OR APPROVED EQUAL FOR ALL KITCHEN HAND SINKS AND SET DELIVERY TEMPERATURE AT 105°F.



SECOND FLOOR PLUMBING PLAN - WATER AND GAS PIPING

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



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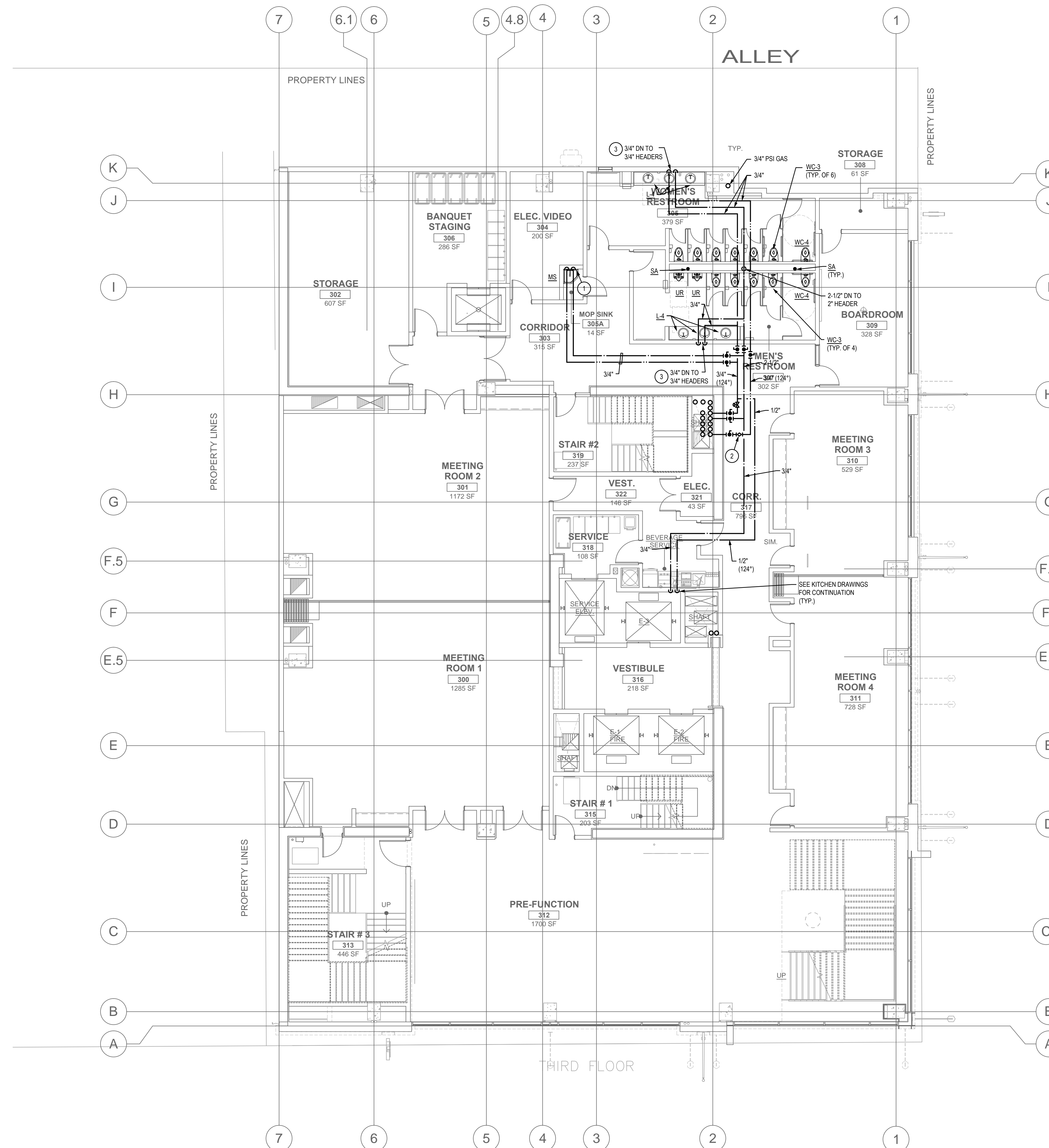
PROJECT:

**MARRIOTT RESIDENCE INN
- COURTYARD @ LUHR'S**
A Development of - LUHR'S CM, LLC
Phoenix, Arizona

DRAWN: **LRW**
CHECKED: **RAB**
DATE: **08/22/14**
PROJECT NO.: **12-1601**

SHEET TITLE:
**SECOND FLOOR
PLUMBING PLAN -
WATER AND GAS
PIPING**

SHEET NO.:
P2.2



KEYED NOTES (3)

1. PROVIDE 3/4" CW REDUCED PRESSURE BACKFLOW PREVENTER FOR CHEMICAL DISPENSER AT MOP SINK.
2. FLOW CONTROL VALVE.
3. PROVIDE AND INSTALL ONE "LEONARD" MODEL 170-LF EXPOSED ON WALL BELOW EACH LAVATORY AND SET TO DELIVER 110 DEGREE F. OUTLET TEMPERATURE.

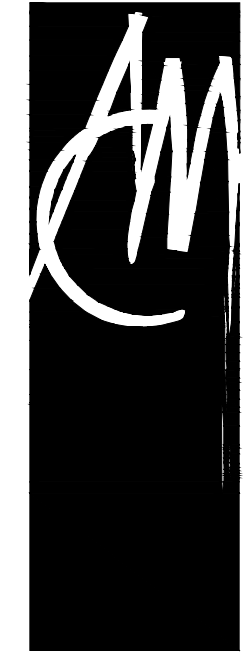
GENERAL NOTES

- (SHEET SPECIFIC)
1. REFER TO FIXTURE CONNECTION SCHEDULE ON P0.1 FOR PIPE CONNECTION SIZES FOR ALL FIXTURES.



THIRD FLOOR PLUMBING PLAN - WATER AND GAS PIPING

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



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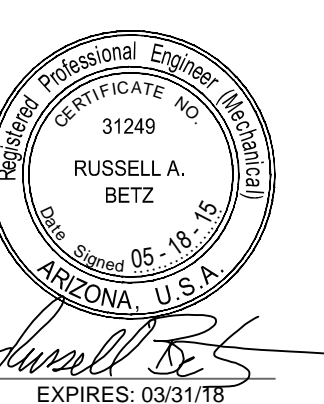


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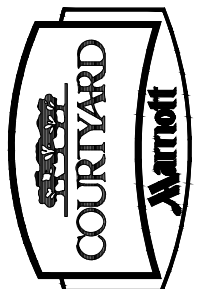
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INSTRUCTION BULLETIN 2	05/11/2015

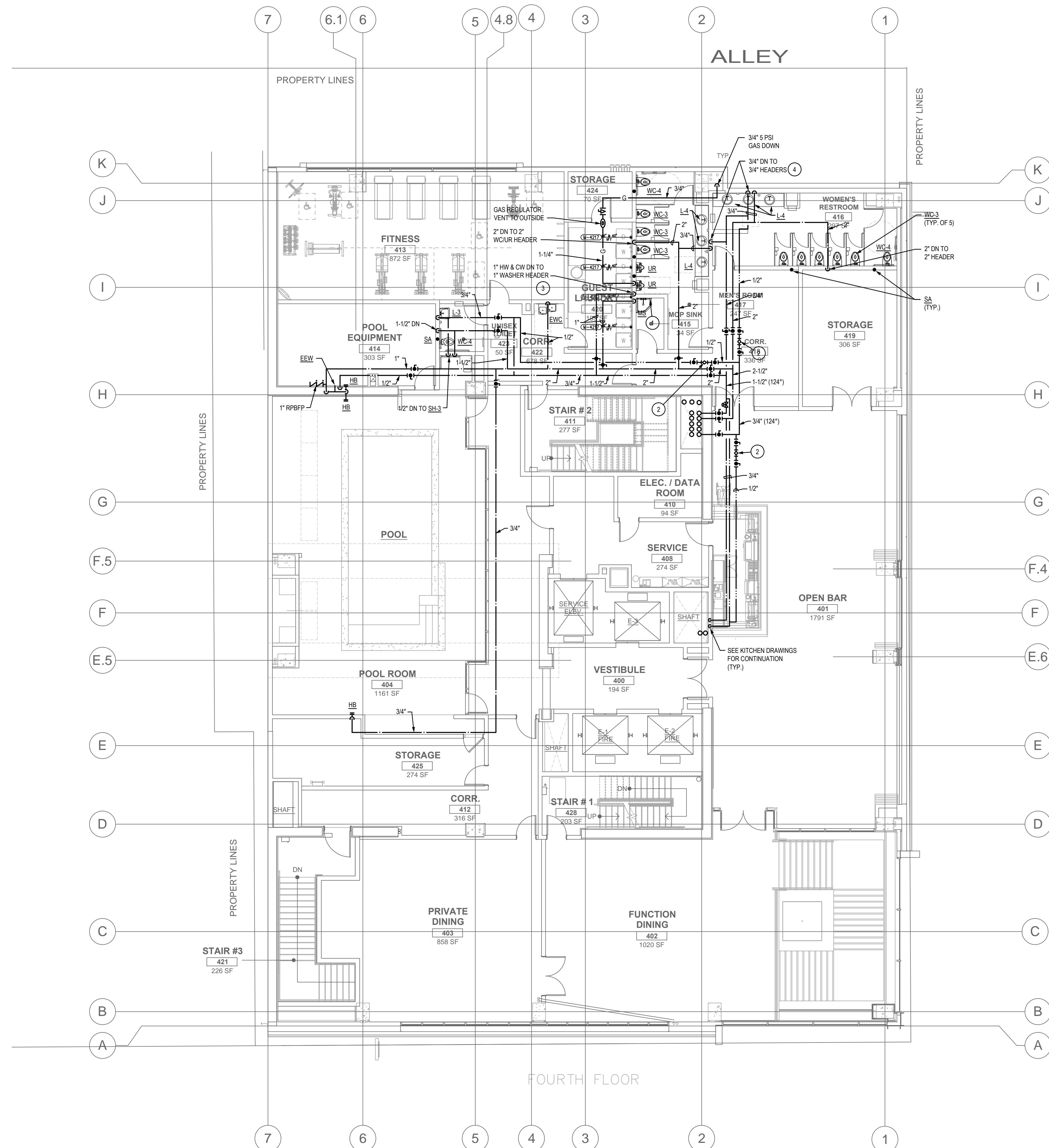
PROJECT:


**MARRIOTT RESIDENCE INN
- COURTYARD @ LUHRS**
A Development of - LUHRS CM, LLC
Phoenix, Arizona

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CHECKED:	RAB
DATE:	08/22/14
PROJECT NO.:	12-1601

SHEET TITLE:
**THIRD FLOOR
PLUMBING PLAN -
WATER AND GAS
PIPING**

SHEET NO.:
P2.3



KEYED NOTES (Ⓢ)

1. PROVIDE 3/4" CW REDUCED PRESSURE BACKFLOW PREVENTER FOR CHEMICAL DISPENSER AT MOP SINK.
2. PROVIDE BALL VALVES AND FLOW CONTROL VALVE FACTORY SET AT 0.5 GPM.
3. PROVIDE AND INSTALL FOUR (4) HES. SEE ARCHITECTURAL ELEVATION FOR EXACT LOCATIONS.
4. PROVIDE AND INSTALL ONE "LEONARD" MODEL 170-LF EXPOSED ON WALL BELOW EACH LAVATORY AND SET TO DELIVER 110 DEGREE F. OUTLET TEMPERATURE.

GENERAL NOTES

1. REFER TO FIXTURE CONNECTION SCHEDULE ON P0.1 FOR PIPE CONNECTION SIZES FOR ALL FIXTURES.

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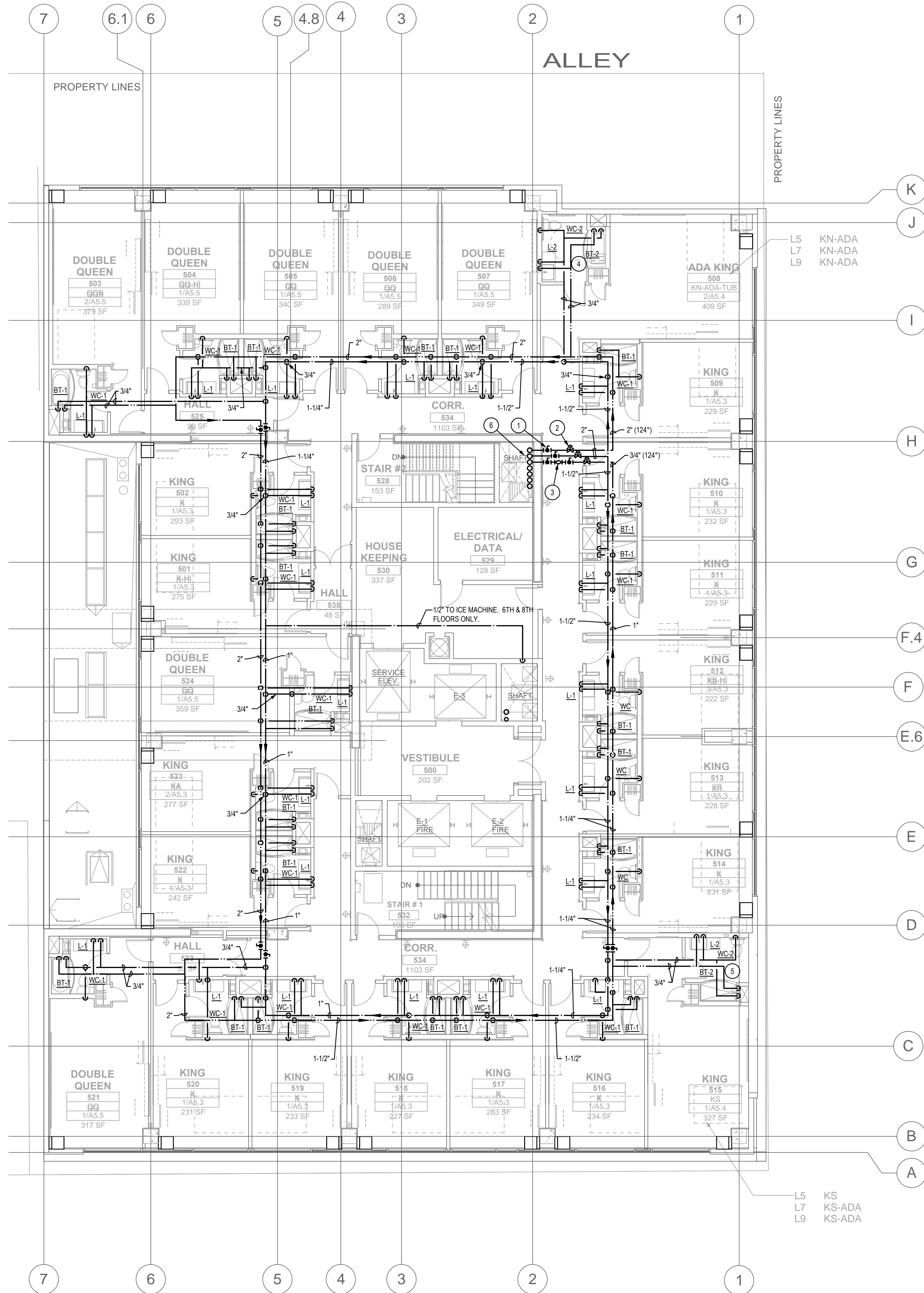
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INSTRUCTION BULLETIN 1	02/23/2015
INSTRUCTION BULLETIN 2	05/11/2015

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A Development of - LUHRS CM, LLC
Phoenix, Arizona

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DATE:	08/22/14
PROJECT NO.:	12-1601
SHEET TITLE:	FOURTH FLOOR PLUMBING PLAN - WATER AND GAS PIPING
SHEET NO.:	P2.4



KEYED NOTES (Ⓢ)

1. BALL SHUT-OFF VALVE.
2. PRESSURE BALANCING VALVE.
3. FLOW CONTROL VALVE.
4. PROVIDE ADA TYPE PLUMBING FIXTURES FOR THIS TOILET ROOM ON FLOORS 5, 6, 7 AND 9.
5. PROVIDE ADA TYPE PLUMBING FIXTURES FOR THIS TOILET ROOM ON FLOORS 7, 8 AND 9.
6. SEE WATER RISER DIAGRAM ON SHEET P6.1 FOR SIZES AND BALANCING.

GENERAL NOTES

1. REFER TO FIXTURE CONNECTION SCHEDULE ON P0.1 FOR PIPE CONNECTION SIZES FOR ALL FIXTURES.



FIFTH THRU NINTH FLOORS COURTYARD TOWER - PLUMBING PLAN

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



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A Development of - LUHRS CM, LLC
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DATE:

08/22/14

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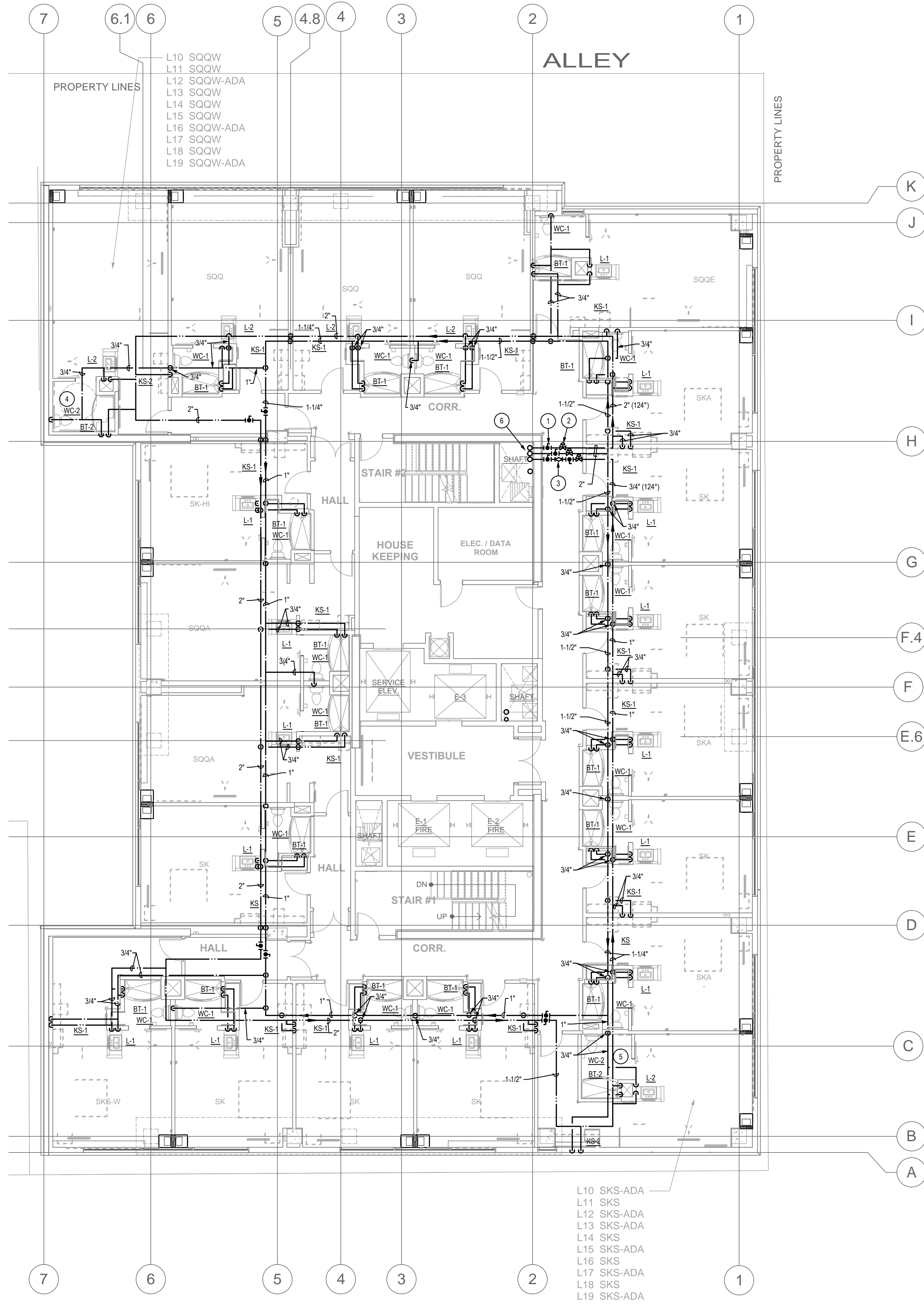
12-1601

SHEET TITLE:

**FIFTH THRU NINTH
FLOORS - PLUMBING
PLAN - WATER AND
GAS PIPING**

SHEET NO.:

P2.5



KEYED NOTES (Ⓢ)

1. BALL SHUT-OFF VALVE.
2. PRESSURE BALANCING VALVE.
3. FLOW CONTROL VALVE.
4. PROVIDE ADA TYPE PLUMBING FIXTURES FOR THIS TOILET ROOM ON FLOORS 10, 12, 16 AND 19.
5. PROVIDE ADA TYPE PLUMBING FIXTURES FOR THIS TOILET ROOM ON FLOORS 10, 12, 13, 15, 17 AND 19.
6. SEE WATER RISER DIAGRAM ON SHEET P6.1 FOR SIZES AND BALANCING.

GENERAL NOTES

1. REFER TO FIXTURE CONNECTION SCHEDULE ON P6.1 FOR PIPE CONNECTION SIZES FOR ALL FIXTURES.



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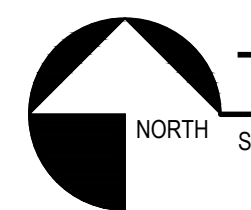
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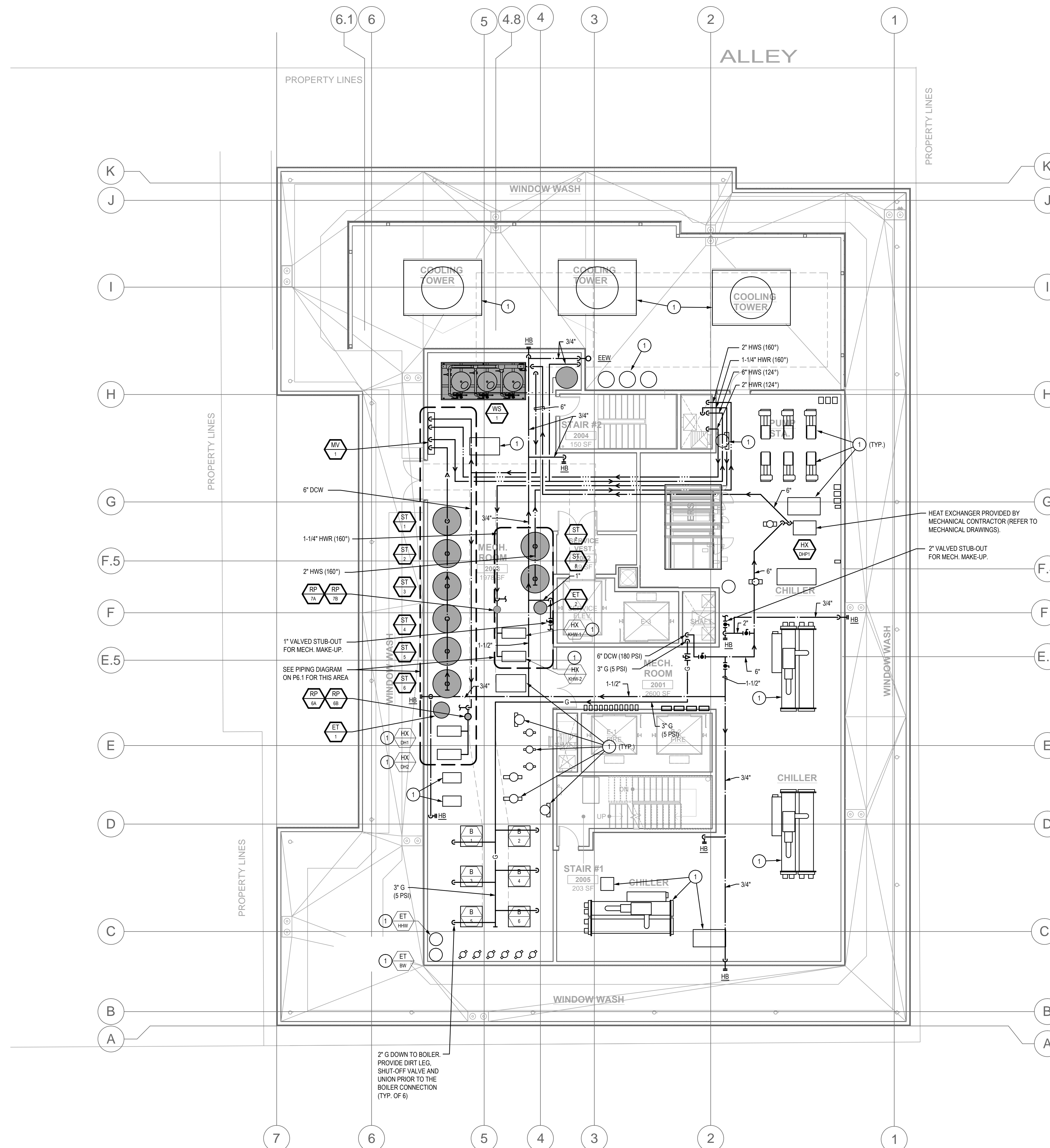
SHEET TITLE:
**TENTH THRU
NINETEENTH FLOORS
PLUMBING PLAN -
WATER AND GAS
PIPING**

SHEET NO.:
P2.6



TENTH THRU NINETEENTH FLOORS RESIDENCE INN TOWER - PLUMBING PLAN

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



KEYED NOTES (①)

1. MECHANICAL COMPONENTS. SEE SHEETS M2.9 AND M3.7.

GENERAL NOTES

(SHEET SPECIFIC)

1. REFER TO FIXTURE CONNECTION SCHEDULE ON P0.1 FOR PIPE CONNECTION SIZES FOR ALL FIXTURES.



PENTHOUSE / ROOF PLUMBING PLAN

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



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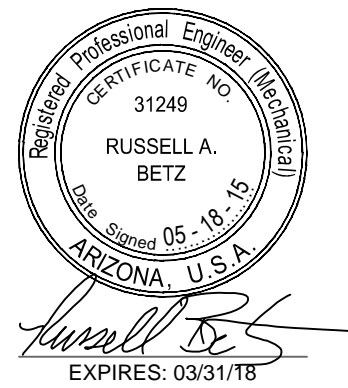
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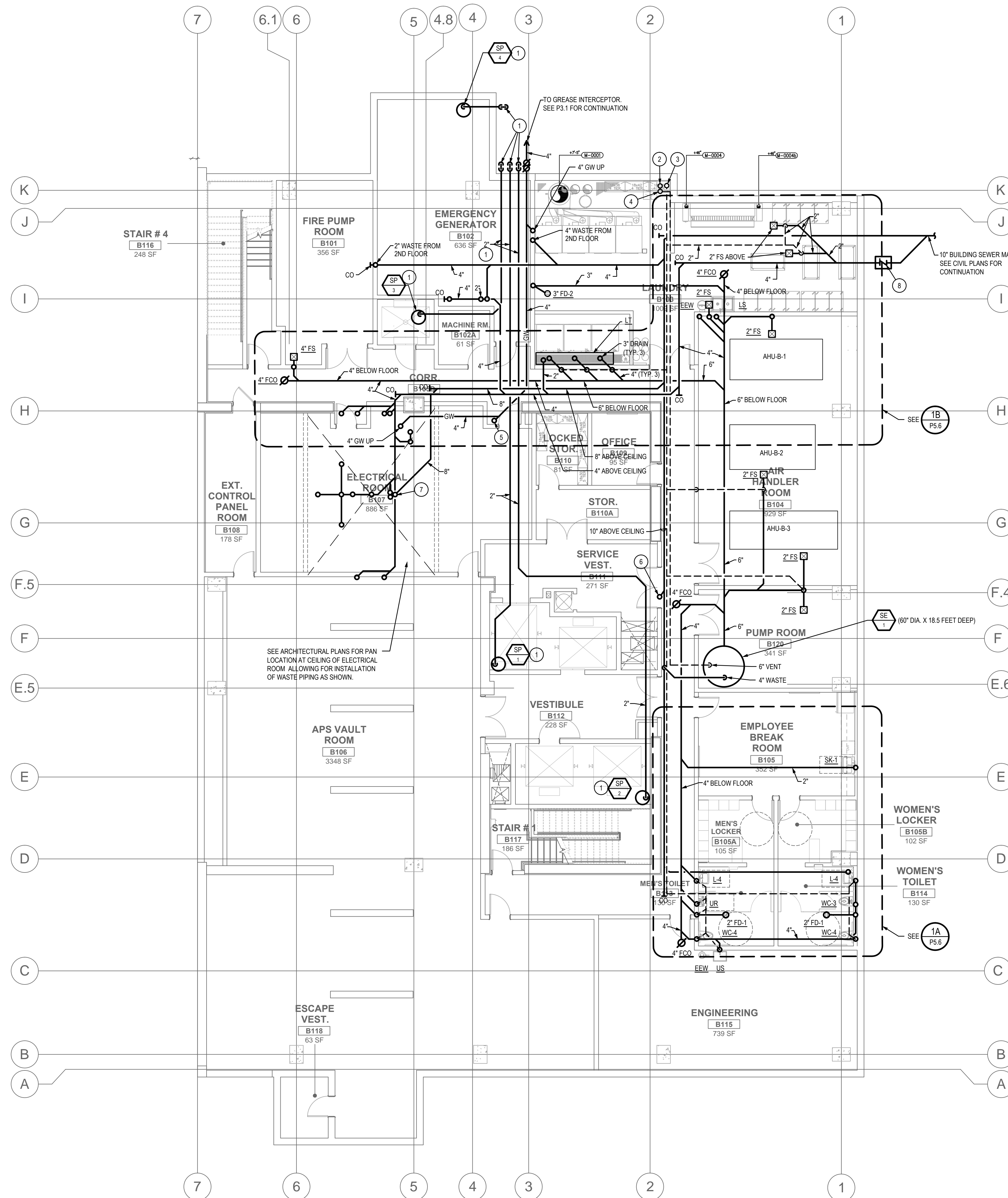
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SHEET TITLE:
**PENTHOUSE/ROOF
PLUMBING PLAN**

SHEET NO.:

P2.7

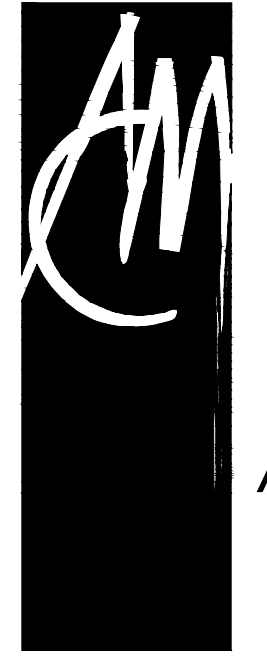


KEYED NOTES (Ⓢ)

1. RUN 2" DRAIN LINE FROM ELEVATOR PIT SUMP PUMP BELOW BASEMENT FLOOR TO EXTERIOR OF BUILDING AND TURN UP TO DAYLIGHT AND ELBOW DOWN AT 6" ABOVE FINISH GRADE.
2. RUN 4" VENT UP IN CHASE TO VENT THRU ROOF.
3. RUN 6" VENT UP FROM SEWAGE EJECTOR TO VENT THRU ROOF.
4. RUN 3" VENT FROM DOMESTIC WASTE FIXTURES UP THRU 1ST FLOOR. SEE SHEET P3.1.
5. 4" GREASE WASTE DOWN FROM 4" FCO ON GROUND FLOOR. SEE SHEET P3.1.
6. 6" WASTE DOWN THRU GROUND FLOOR.
7. 8" WASTE DOWN THRU GROUND FLOOR.
8. PROVIDE WITH FULL SIZE BACKWATER VALVE (SERVING ALL GROUND FLOOR PLUMBING FIXTURES ONLY) LOCATED WITHIN VALVE BOX WITH COVER.

GENERAL NOTES

(SHEET SPECIFIC)



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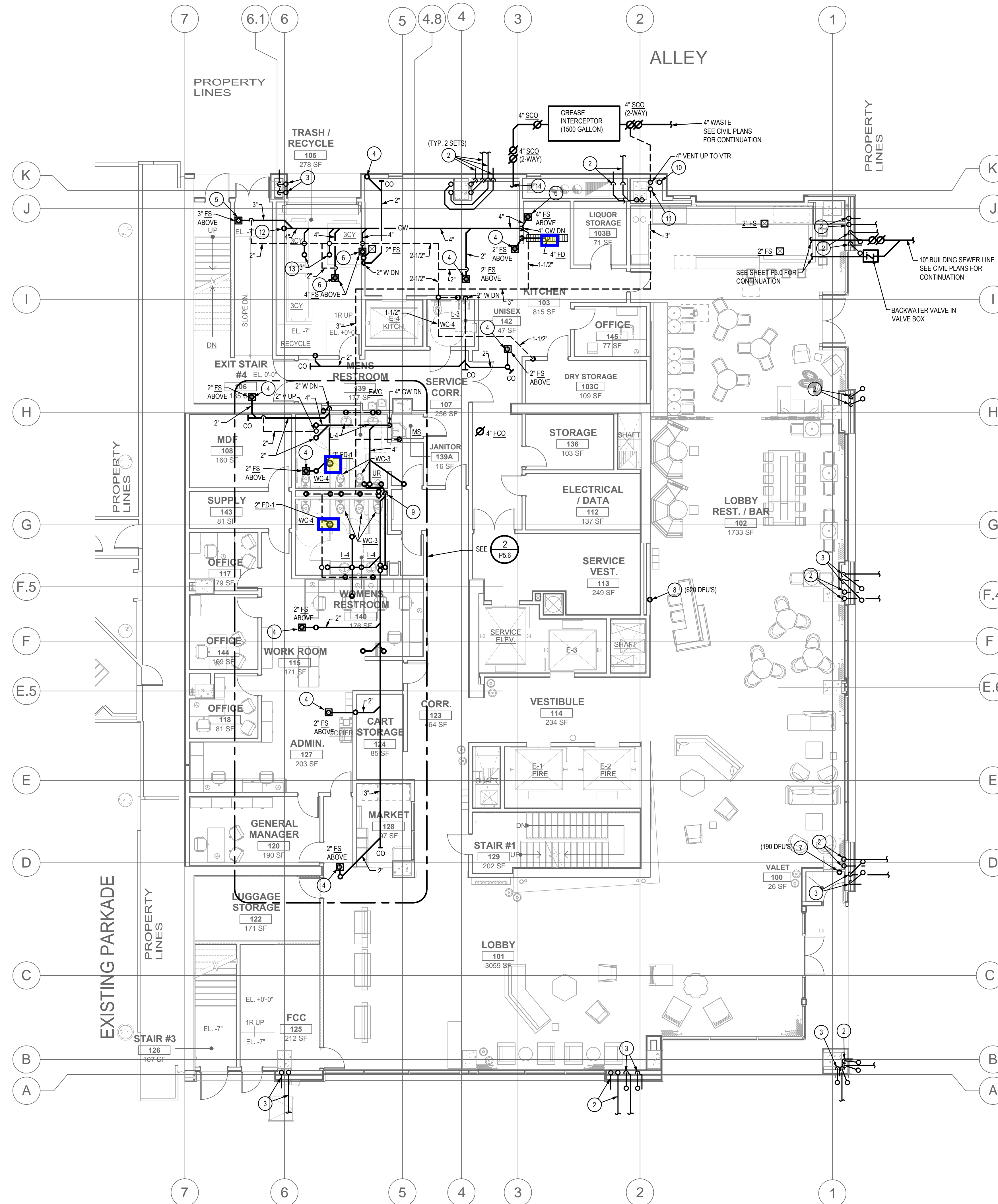
SHEET TITLE:
**BASEMENT
PLUMBING FLOOR
PLAN - WASTE, DRAIN
AND VENT PIPING**

SHEET NO.:
P3.0



BASEMENT PLUMBING FLOOR PLAN - WASTE, DRAIN AND VENT PIPING

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



KEYED NOTES (Ⓢ)

1. NOT USED.
2. RUN 4" ODL OUT EXTERIOR WALL AT 8" ABOVE FINISH GRADE AND 4" RDL BELOW GRADE TO STORM DRAINAGE SYSTEM. SEE CIVIL PLANS FOR CONTINUATION.
3. RUN 6" ODL OVER 6" RDL RUN OUT EXTERIOR WALL AT 8" ABOVE FINISH GRADE.
4. 2" WASTE DOWN FROM FLOOR SINK ON 2ND FLOOR.
5. 3" WASTE DOWN FROM FLOOR SINK ON 2ND FLOOR.
6. 4" WASTE DOWN FROM FLOOR SINK ON 2ND FLOOR.
7. 4" WASTE STACK THRU GROUND FLOOR. SEE SHEET P3.0.
8. 6" WASTE STACK THRU GROUND FLOOR. SEE SHEET P3.0.
9. 8" WASTE STACK THRU GROUND FLOOR. SEE SHEET P3.0.
10. 6" VENT UP WITHIN CHASE FROM SEWAGE EJECTOR IN BASEMENT TO 6" VENT THRU ROOF.
11. 3" VENT FROM DOMESTIC WASTE SYSTEM IN BASEMENT WITHIN CHASE. TO 4" VENT UP THRU 2ND FLOOR TO 4" VENT THRU ROOF.
12. 4" WASTE DOWN FROM 4" FCC ON 2ND FLOOR. SEE SHEET P3.2.
13. 3" DRAIN CONNECTIONS TO FLOOR TROUGH (KITCHEN ITEM P-2118).
14. 4" GREASE WASTE RUN WITHIN CEILING SPACE ON BASEMENT LEVEL. REFER TO SHEET P3.0 FOR PIPING CONTINUATION.

GENERAL NOTES

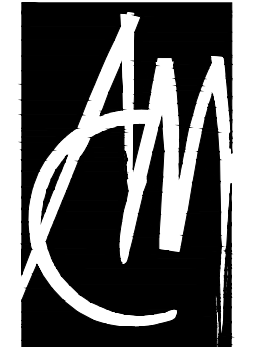
(SHEET SPECIFIC)

1. REFER TO FOOD SERVICE PLANS INCLUDING SHEET FS&L-4 FOR ALL KITCHEN PLUMBING ITEMS AND FLOOR SINKS.



GROUND FLOOR PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING

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



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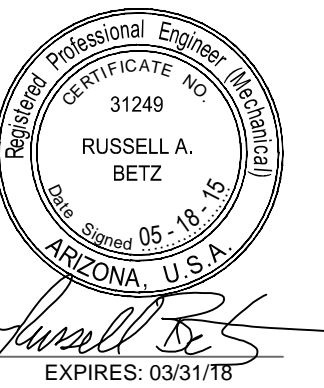
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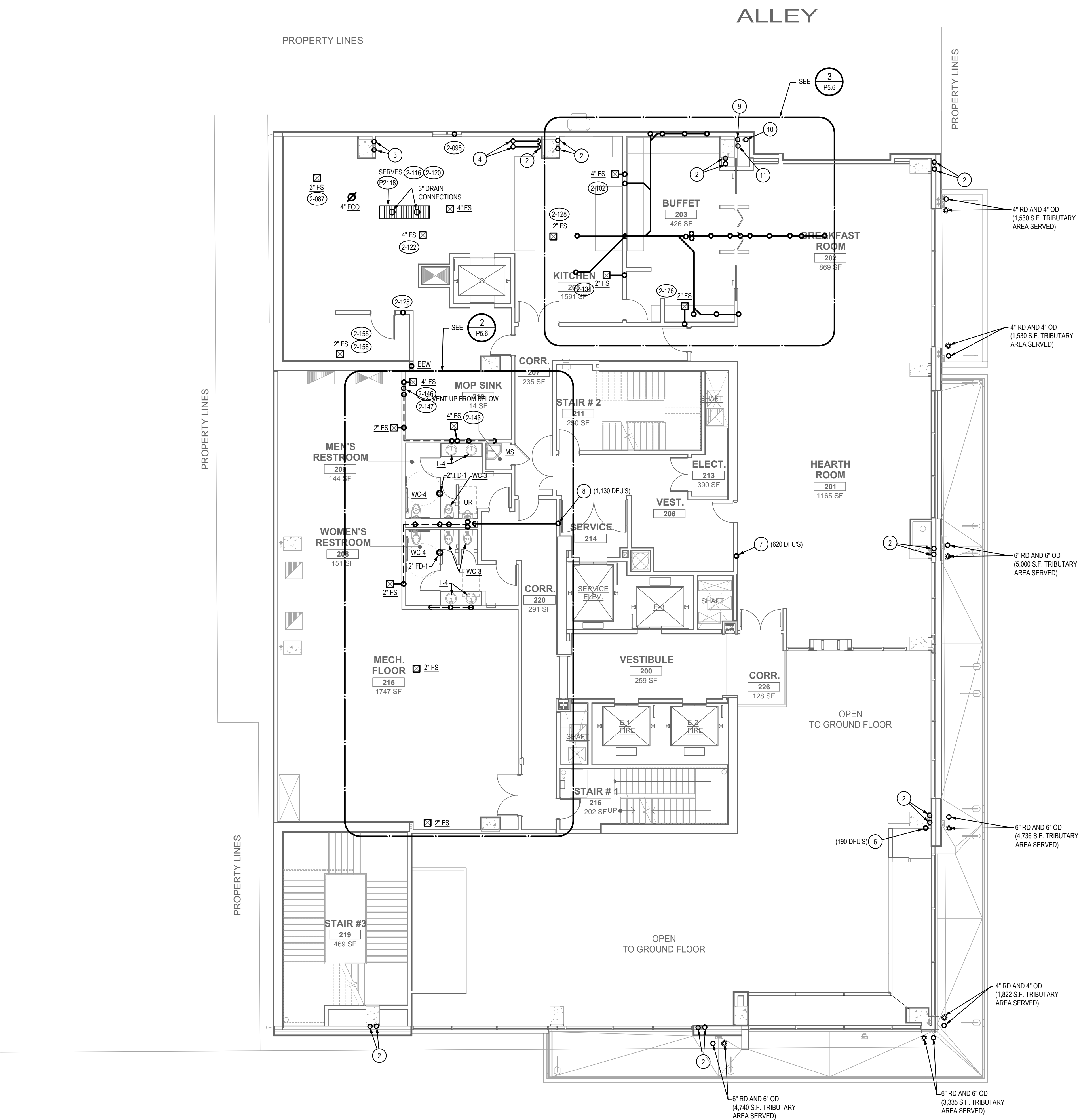
PROJECT:

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A Development of - LUHRS CM, LLC
Phoenix, Arizona

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DATE: 08/22/14
PROJECT NO.: 12-1601

SHEET TITLE:
**GROUND FLOOR
PLUMBING PLAN -
WASTE, DRAIN AND
VENT PIPING**

SHEET NO.:
P3.1



KEYED NOTES (3)

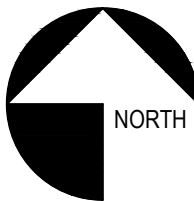
(SHEET SPECIFIC)

- 3" ROOF DRAIN AND 3" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 2ND FLOOR.
- 4" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 2ND FLOOR.
- 6" ROOF DRAIN AND 6" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 2ND FLOOR.
- 4" RDL AND 4" ODL THRU 3RD FLOOR.
- 6" RDL AND 6" ODL THRU 3RD FLOOR.
- 4" WASTE STACK THRU 2ND FLOOR. SEE SHEET P3.1.
- 6" WASTE STACK THRU 2ND FLOOR. SEE SHEET P3.1.
- 8" WASTE STACK THRU 2ND FLOOR. SEE SHEET P3.1.
- 4" VENT UP FROM GREASE INTERCEPTOR WITHIN CHASE TO VENT THRU ROOF.
- 6" VENT UP WITHIN CHASE FROM SEWAGE EJECTOR IN BASEMENT RUN WITHIN CHASE TO 6" VENT THRU ROOF.
- 4" VENT THRU 2ND FLOOR FROM DOMESTIC WASTE SYSTEM RUN WITHIN CHASE TO 4" VENT UP THRU 2ND FLOOR TO 4" VENT THRU ROOF.

GENERAL NOTES

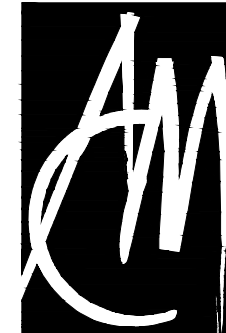
(SHEET SPECIFIC)

- REFER TO FOOD SERVICE DRAWINGS FOR ALL KITCHEN PLUMBING ITEMS OR COMPONENTS. REFER TO SHEETS FS&L-1, 2, 3, AND 4.



SECOND FLOOR PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING

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



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INSTRUCTION BULLETIN 2	05/11/2015

PROJECT:

MARRIOTT RESIDENCE INN
- COURTYARD @ LUHR'S
A Development of - LUHR'S CM, LLC
Phoenix, Arizona

DRAWN: LRW

CHECKED: RAB

DATE: 08/22/14

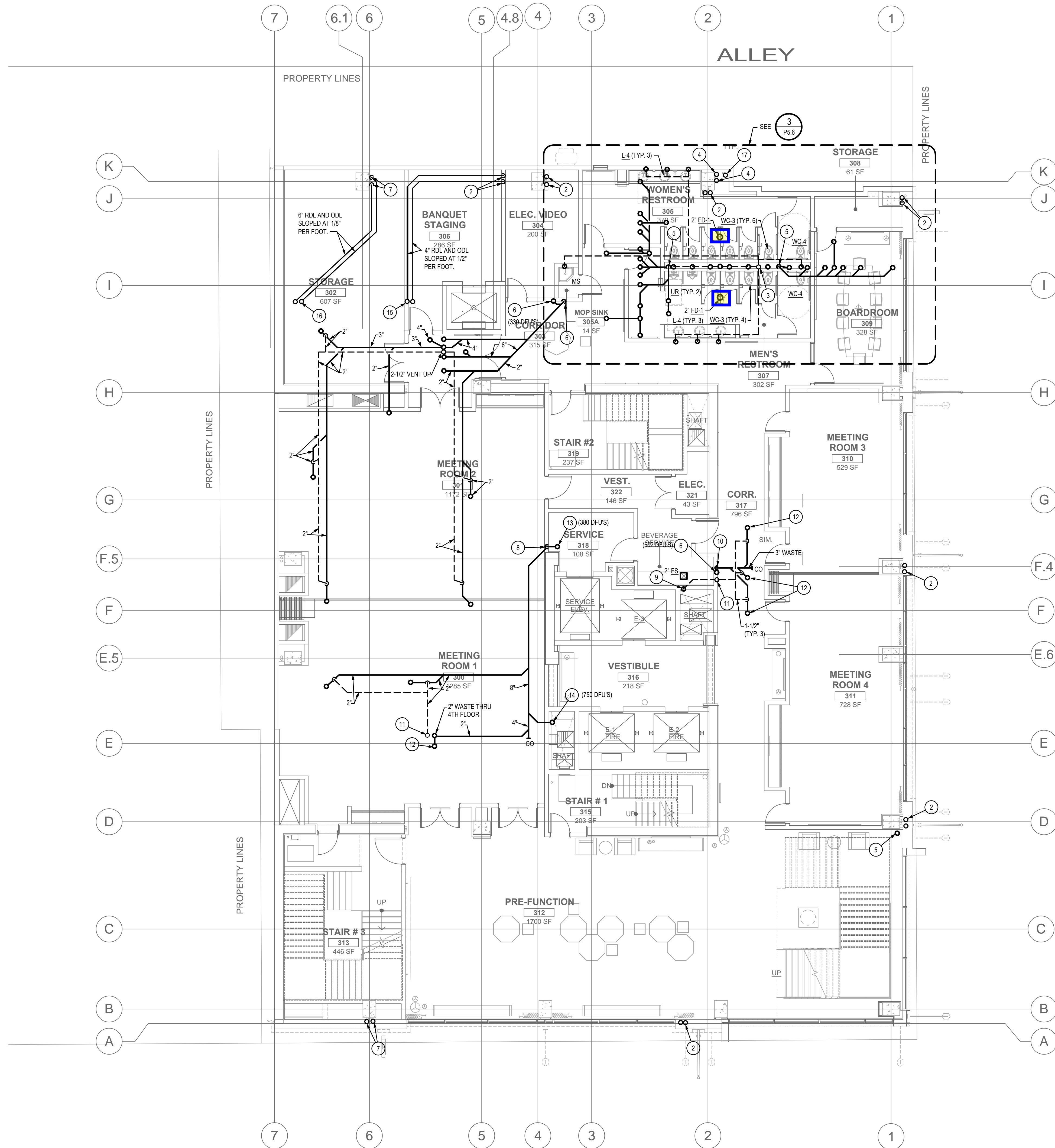
PROJECT NO.: 12-1601

SHEET TITLE:
SECOND FLOOR
PLUMBING PLAN -
WASTE, DRAIN AND
VENT PIPING

SHEET NO.:

P3.2

FINAL FOR CONSTRUCTION - 05/18/15



KEYED NOTES (S)

(SHEET SPECIFIC)

- 3" ROOF DRAIN AND 3" OVERFLOW DRAIN LEADERS WITHIN WALL DOWN THRU 3RD FLOOR. SEE SHEET P3.2.
- 4" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 3RD FLOOR. SEE SHEET P3.2.
- 3" VENT UP THRU 4TH FLOOR. SEE SHEET P3.4.
- 4" VENT UP TO VENT THRU ROOF.
- 4" WASTE STACK DOWN THRU 3RD FLOOR. SEE SHEET P3.2.
- 6" WASTE STACK DOWN THRU 3RD FLOOR. SEE SHEET P3.2.
- 6" ROOF DRAIN AND 6" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 3RD FLOOR. SEE SHEET P3.2.
- 8" WASTE STACK DOWN THRU 3RD FLOOR.
- INSTALL 2" FLOOR SINK WITH 2" WASTE, WCO AND 1-1/2" VENT.
- 3" WASTE DOWN IN WALL. TIE INTO 6" WASTE WITH WYE FITTING AT 3 FEET ABOVE FINISH FLOOR.
- 2" VENT UP THRU 4TH FLOOR.
- 2" WASTE DOWN FROM FLOOR SINK ON 4TH FLOOR.
- 4" WASTE STACK THRU 4TH FLOOR.
- 8" WASTE STACK THRU 4TH FLOOR.
- 4" RDL AND ODL THRU 4TH FLOOR. SEE SHEET P3.4.
- 6" RDL AND ODL THRU 4TH FLOOR. SEE SHEET P3.4.
- 6" VENT UP TO VENT THRU ROOF.

GENERAL NOTES

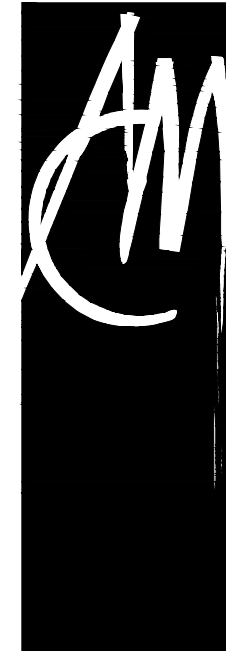
(SHEET SPECIFIC)

1.



THIRD FLOOR PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING

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



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CONSULTANTS:



REVISIONS:
CONSTRUCTION BID SET 03/09/2015
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PROJECT:

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A Development of - LUHRS CM, LLC
Phoenix, Arizona

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DATE: 08/22/14

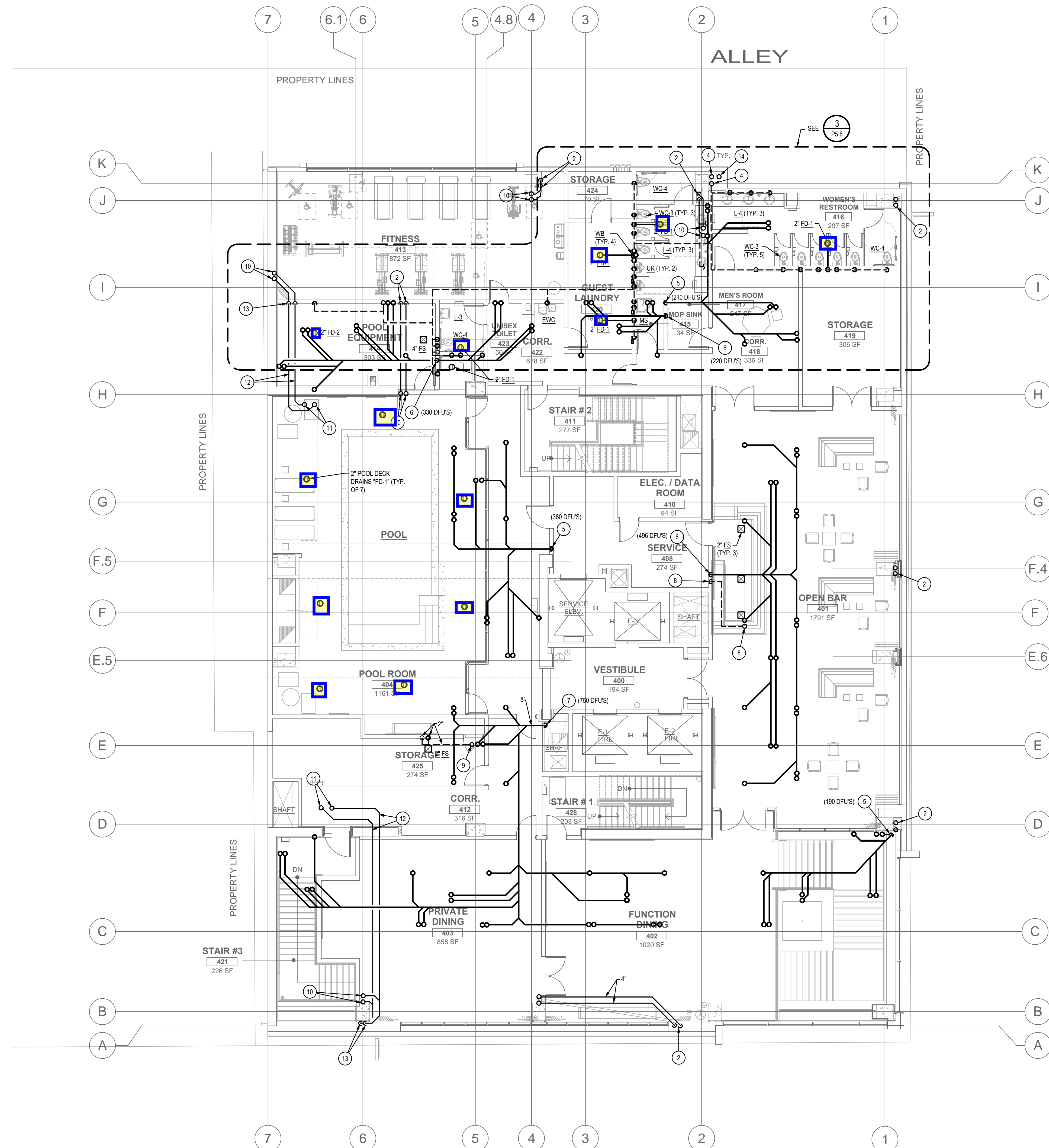
PROJECT NO.: 12-1601

SHEET TITLE:
**THIRD FLOOR
PLUMBING PLAN -
WASTE, DRAIN AND
VENT PIPING**

SHEET NO.:

P3.3

FINAL FOR CONSTRUCTION - 05/18/15



KEYED NOTES (P)

- 3" ROOF DRAIN AND 3" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 4TH FLOOR. SEE SHEET P3.3.
- 4" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 4TH FLOOR. SEE SHEET P3.3.
- 3" VENT UP THRU 4TH FLOOR. SEE SHEET P3.5.
- 4" VENT UP TO VENT THRU ROOF.
- 4" WASTE STACK DOWN THRU 2ND FLOOR. SEE SHEET P3.3.
- 6" WASTE STACK DOWN THRU 2ND FLOOR. SEE SHEET P3.3.
- 8" WASTE STACK DOWN THRU 2ND FLOOR. SEE SHEET P3.3.
- 2" VENT UP THRU 4TH FLOOR. SEE SHEET P3.3.
- 2" VENT UP THRU 5TH FLOOR. SEE SHEET P3.5.
- 4" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 4TH FLOOR. SEE SHEET P3.3.
- 4" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS DOWN FROM ROOF DRAIN AND OVERFLOW DRAIN ABOVE. SEE SHEET P3.5.
- 6" RDL AND ODL PIPING SLOPED AT 1/8" PER FOOT.
- 6" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 4TH FLOOR. SEE SHEET P3.3.
- 6" VENT UP TO VENT THRU ROOF.

GENERAL NOTES

- PROVIDE SUDS RELIEF ON PIPING INSTALLATION TO MEET UPC SECTION 711.0.

FOURTH FLOOR PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING
NORTH SCALE: 1/8" = 1'-0"

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Arizona, U.S.A.
Expires: 03/31/18

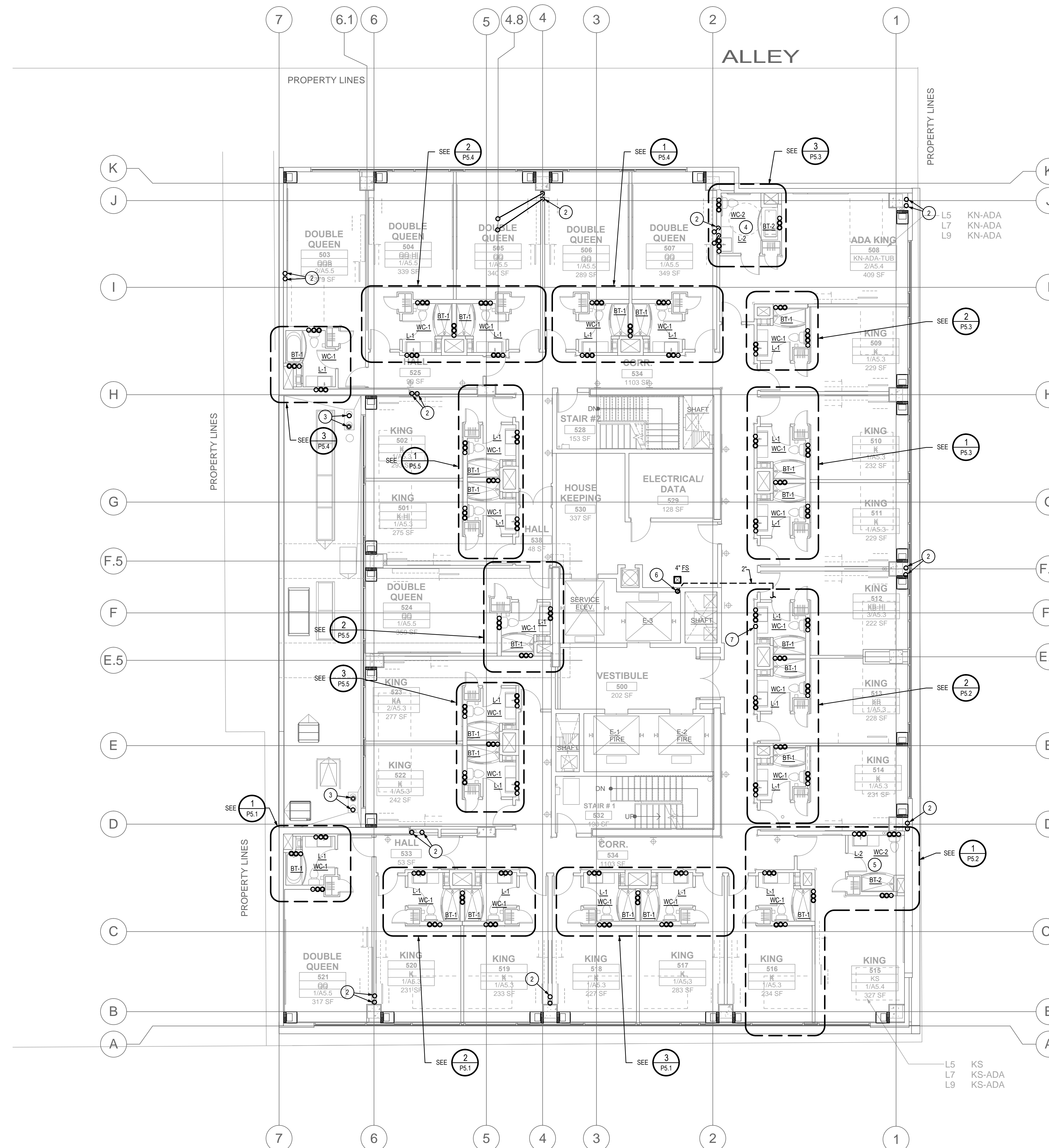
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PROJECT:

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Phoenix, Arizona

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PROJECT NO.: **12-1601**
SHEET TITLE:
**FOURTH FLOOR
PLUMBING PLAN -
WASTE, DRAIN AND
VENT PIPING**
SHEET NO.:
P3.4



- KEYED NOTES (Ⓢ)** (SHEET SPECIFIC)
- 3" ROOF DRAIN AND 3" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU FLOORS TO 4TH FLOOR. SEE SHEET P3.4.
 - 4" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU FLOORS TO 4TH FLOOR. SEE SHEET P3.4.
 - 4" RD AND 4" OD (2,875 S.F. TRIBUTARY AREA SERVED)
 - PROVIDE ADA TYPE PLUMBING FIXTURES FOR THIS TOILET ROOM ON FLOORS 5, 6 AND 7.
 - PROVIDE ADA TYPE PLUMBING FIXTURES FOR THIS TOILET ROOM ON FLOORS 7 AND 8.
 - INSTALL 4" FLOOR SINK WITH 4" WASTE, WCO AND 2" VENT ON FLOORS 6 AND 8.
 - 2" VENT UP FROM 4TH FLOOR.

FIFTH THRU EIGHTH FLOOR PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING
SCALE: 1/8" = 1'-0"

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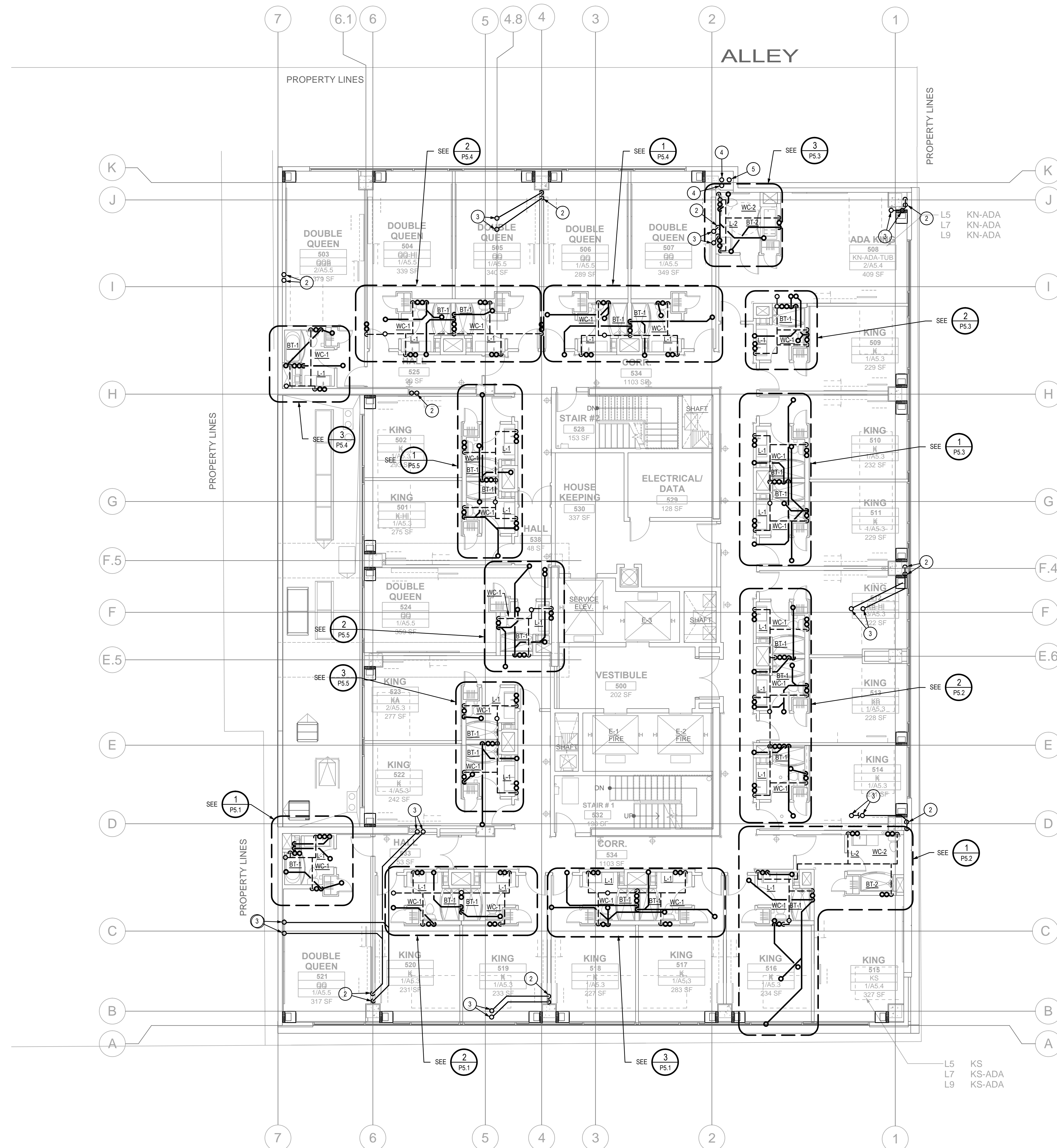
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SHEET TITLE:
**FIFTH THRU EIGHTH
FLOORS - PLUMBING
PLAN - WASTE, DRAIN
AND VENT PIPING**

SHEET NO.:
P3.5



KEYED NOTES (4)

(SHEET SPECIFIC)

- 3" ROOF DRAIN AND 3" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 9TH FLOOR. SEE SHEET P3.5.
- 4" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS DOWN WITHIN WALL THRU 9TH FLOOR. SEE SHEET P3.5.
- 4" ROOF DRAIN AND 4" OVERFLOW DRAIN LEADERS THRU 9TH FLOOR.
- 4" VENT UP TO 4" VENT THRU ROOF.
- 6" VENT UP TO 6" VENT THRU ROOF.

GENERAL NOTES

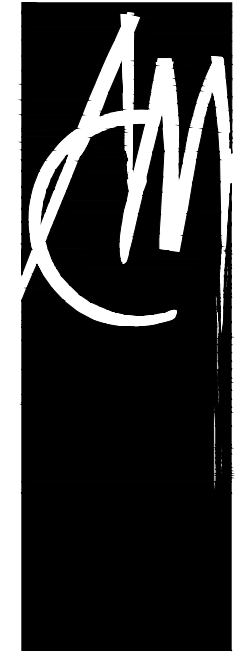
(SHEET SPECIFIC)

1.



NINTH FLOOR PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING

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



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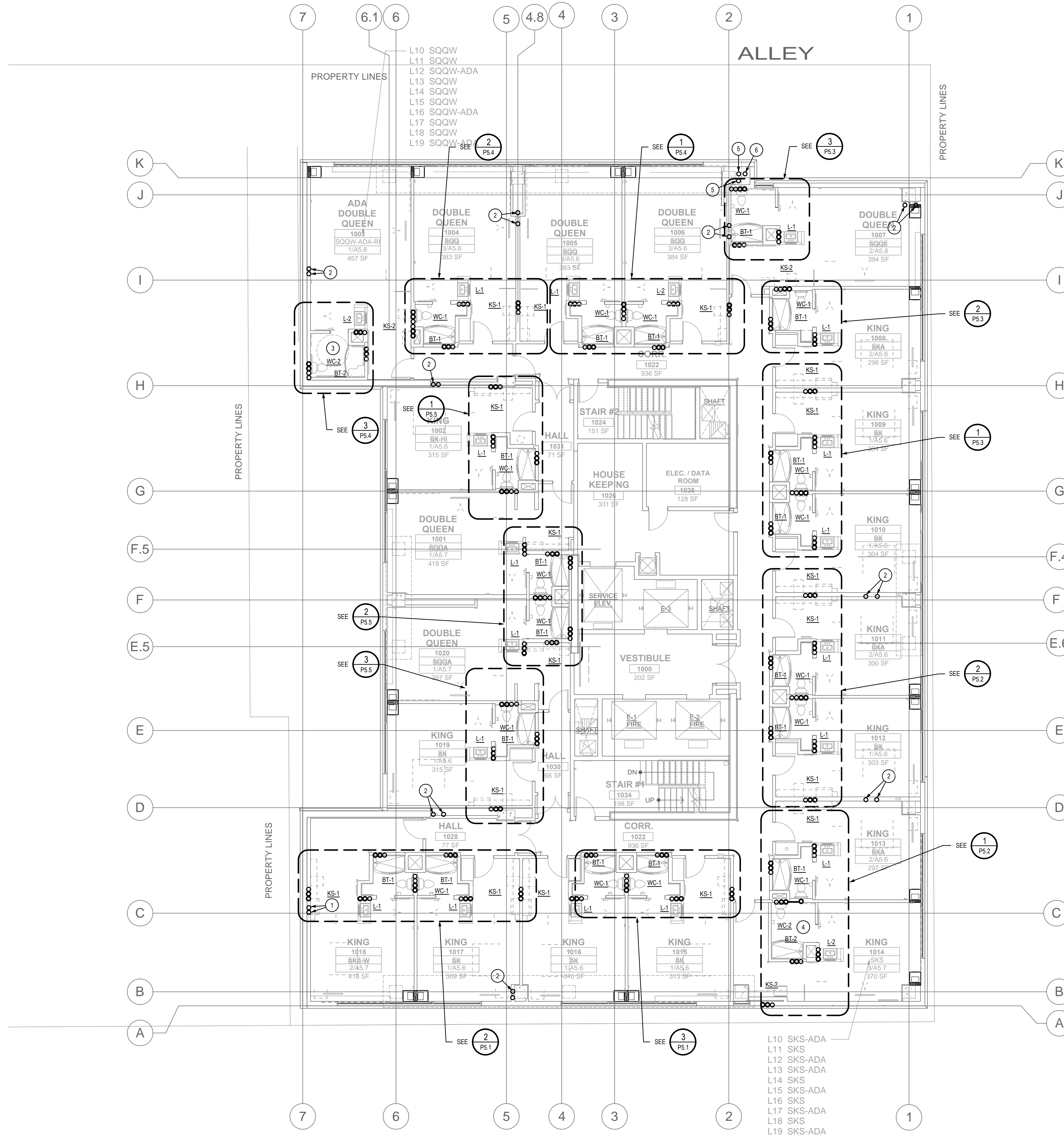
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PROJECT NO.: **12-1601**

SHEET TITLE:
**NINTH FLOOR
PLUMBING PLAN -
WASTE, DRAIN AND
VENT PIPING**

SHEET NO.:
P3.6



KEYED NOTES (1) (SHEET SPECIFIC)

- NEW 3" ROOF DRAIN AND 3" OVERFLOW DRAIN DOWN WITHIN WALL.
- NEW 4" ROOF DRAIN AND 4" OVERFLOW DRAIN DOWN WITHIN WALL.
- PROVIDE ADA TYPE PLUMBING FIXTURES FOR THIS TOILET ROOM ON FLOORS 10, 12, 13, 15, 17 AND 19.
- PROVIDE ADA TYPE PLUMBING FIXTURES FOR THIS TOILET ROOM ON FLOORS 10, 12, 13, 15, 17 AND 19.
- 4" VENT UP TO 4" VENT THRU ROOF.
- 6" VENT UP TO 6" VENT THRU ROOF.

GENERAL NOTES

1.



TENTH THRU EIGHTEENTH FLOOR PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING

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



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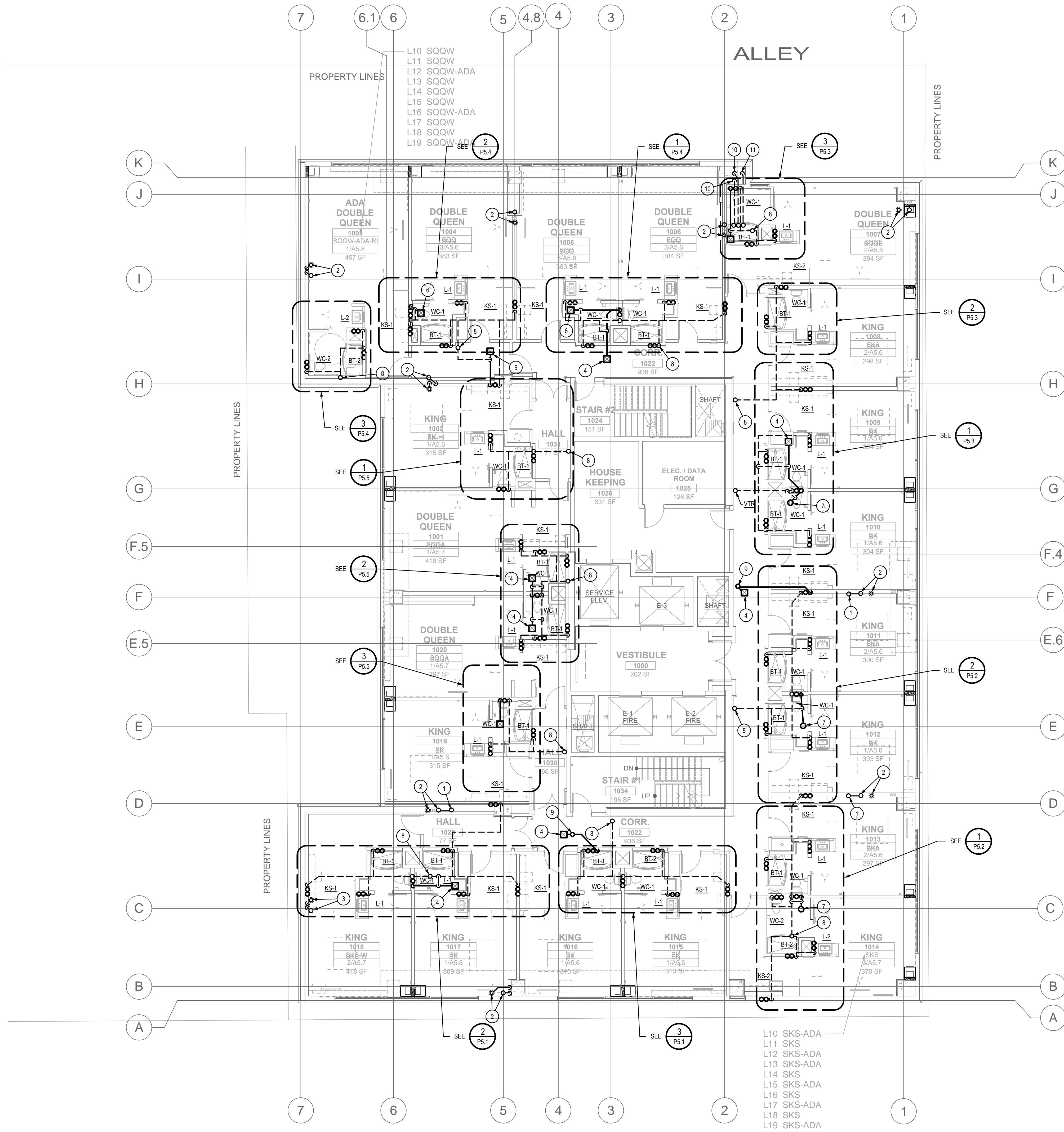
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SHEET TITLE:
**TENTH THRU
EIGHTEENTH FLOORS
PLUMBING PLAN -
WASTE, DRAIN AND
VENT PIPING**

SHEET NO.:
P3.7



KEYED NOTES (SHEET SPECIFIC)

1. RUN ROVERFLOW DRAIN LEADER DOWN THRU PENTHOUSE FLOOR AND COMBINE TOGETHER TO OTHER OVERFLOW DRAIN WITH WYE FITTING AFTER 6 FOOT VERTICAL DROP WITHIN WALL.
2. NEW 4" ROOF DRAIN AND 4" OVERFLOW DRAIN DOWN WITHIN WALL THRU 19TH FLOOR. SEE SHEET P3.7.
3. NOT USED.
4. NEW 2" WASTE THRU PENTHOUSE LEVEL FROM FLOOR SINK. SEE SHEET P3.9.
5. NEW 3" WASTE THRU PENTHOUSE LEVEL FROM FLOOR SINK. SEE SHEET P3.9.
6. NEW 4" WASTE THRU PENTHOUSE LEVEL FROM FLOOR SINK. SEE SHEET P3.9.
7. NEW 2" WASTE THRU PENTHOUSE LEVEL FROM FLOOR DRAIN. SEE SHEET P3.9.
8. NEW 4" VTR. SEE SHEET P3.9.
9. NEW 2" WASTE WITH WCO IN PENTHOUSE AND 2" VTR. SEE SHEET P3.9.
10. 4" VENT UP TO 4" VTR.
11. 6" VENT UP TO 6" VTR.

GENERAL NOTES (SHEET SPECIFIC)

1. ALL ROOF DRAIN AND OVERFLOW DRAIN PIPING AREAS INCLUDE TRIBUTARY VERTICAL WALL AREAS IN SQUARE FEET INDICATED ON THE ROOF PLAN. SEE SHEET P3.10.
2. SLOPE ALL HORIZONTAL ROOF DRAINAGE PIPING AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.



NINETEENTH FLOOR PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING

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



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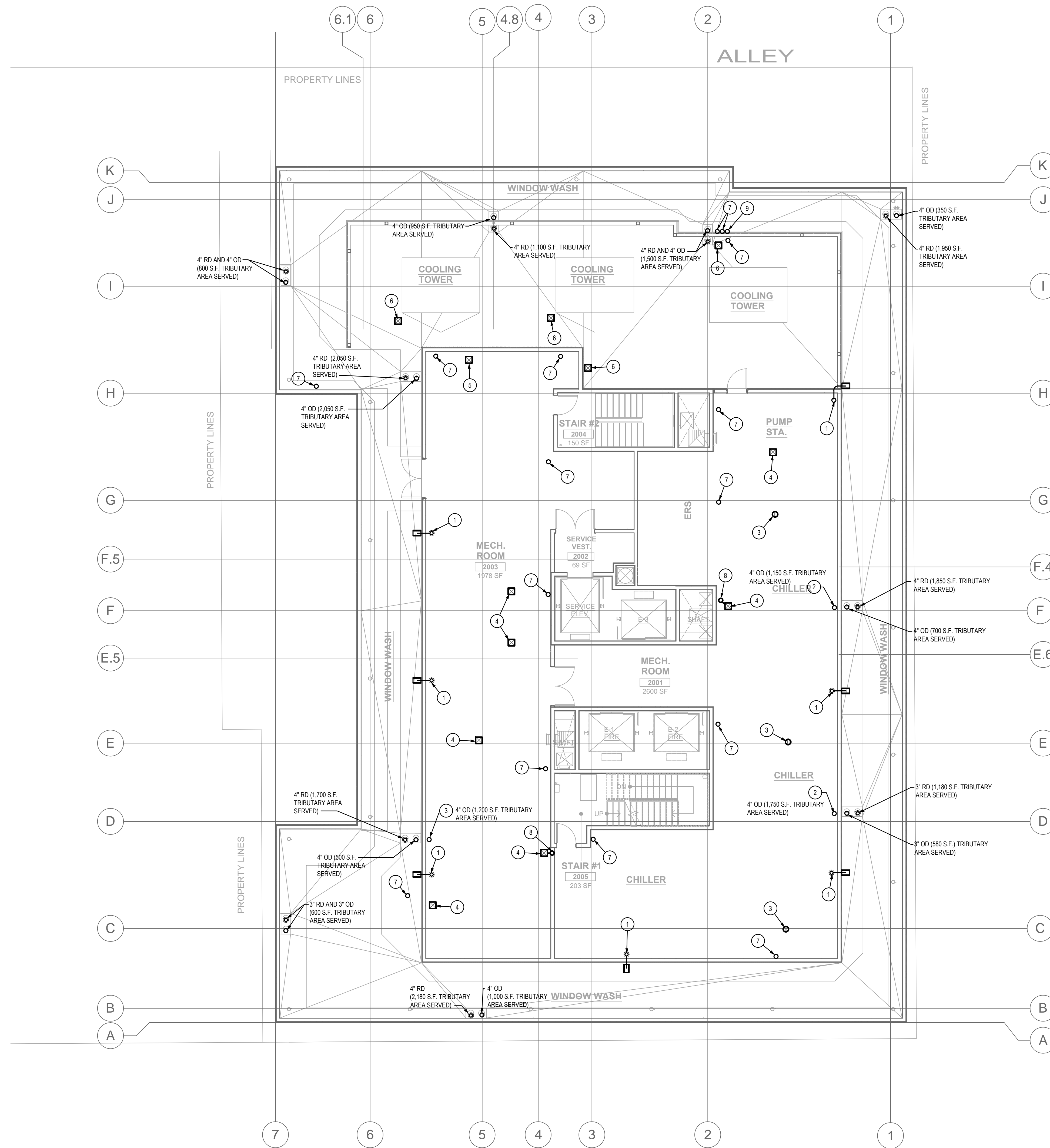
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SHEET TITLE:
**NINETEENTH FLOOR
PLUMBING PLAN -
WASTE, DRAIN AND
VENT PIPING**

SHEET NO.: **P3.8**



KEYED NOTES (P)

(SHEET SPECIFIC)

1. RUN ROOF DRAIN LEADER DOWN FROM UPPER ROOF AND TERMINATE 4" ABOVE SPLASH BLOCK ON LOWER ROOF AS INDICATED.
2. RUN OVERFLOW DRAIN LEADER DOWN THRU PENTHOUSE FLOOR AND COMBINE TOGETHER WITH OTHER OVERFLOW DRAIN AFTER 6 FOOT VERTICAL DROP WITHIN WALL. SEE SHEET P3.8.
3. NEW 3" FLOOR DRAIN.
4. NEW 3" FLOOR SINK.
5. NEW 4" FLOOR SINK.
6. NEW 4" FLOOR SINK MOUNTED ON 6" HIGH RAISED BUILT-UP CURB.
7. 4" VENT UP THRU ROOF.
8. 2" WASTE UP WITH WCO AND 2" VENT UP THRU ROOF.
9. 6" VENT UP THRU ROOF.

GENERAL NOTES

(SHEET SPECIFIC)

1. ALL ROOF DRAIN AND OVERFLOW DRAIN PIPING AREAS INCLUDE TRIBUTARY VERTICAL WALL AREAS IN SQUARE FEET INDICATED ON THIS ROOF PLAN.
2. SLOPE ALL HORIZONTAL ROOF DRAINAGE PIPING AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.



PENTHOUSE LEVEL PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING

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



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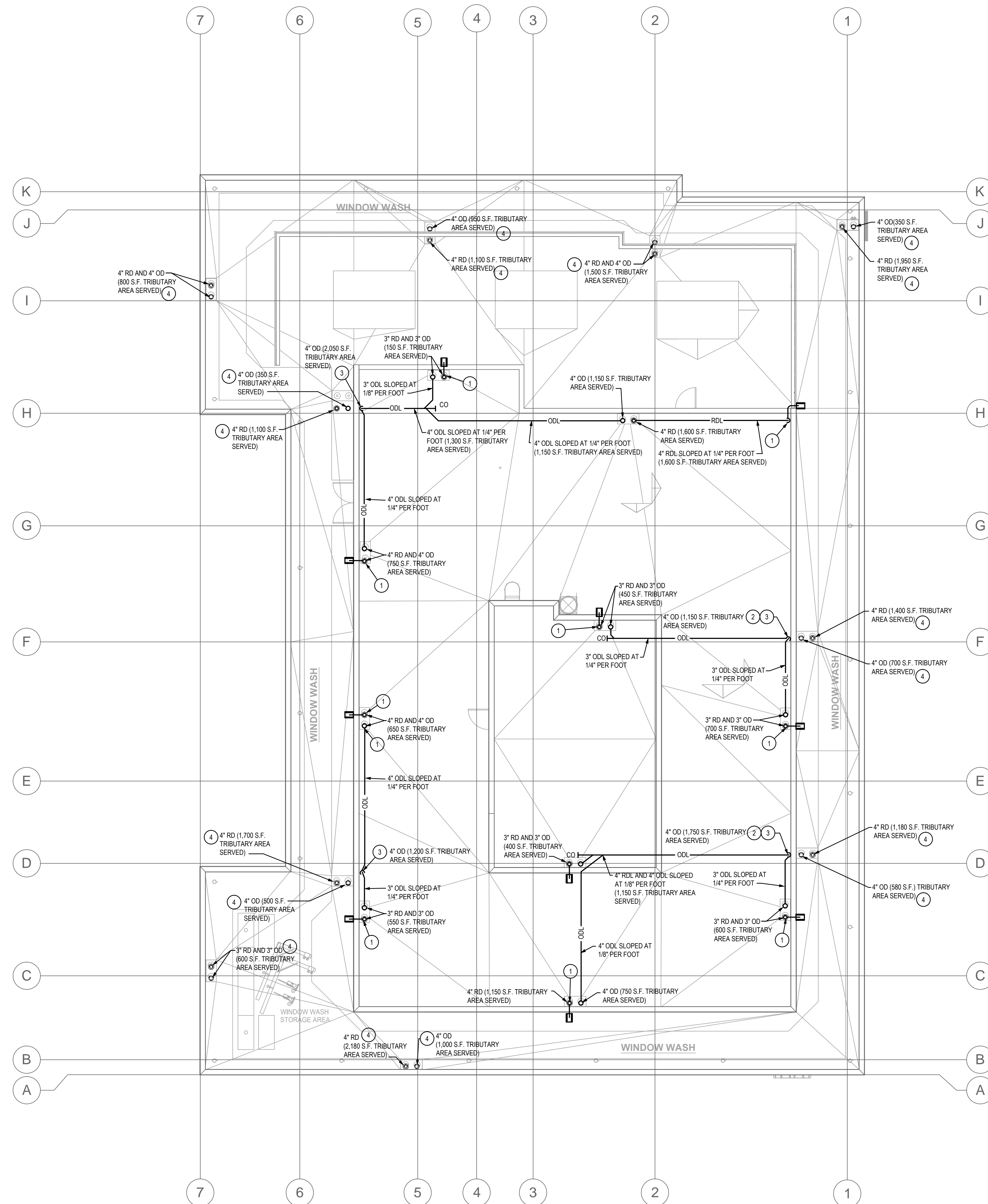
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SHEET TITLE:
**PENTHOUSE LEVEL
PLUMBING PLAN
WASTE, DRAIN AND
VENT PIPING**

SHEET NO.:
P3.9



KEYED NOTES (☉)

(SHEET SPECIFIC)

1. RUN ROOF DRAIN LEADER DOWN FROM UPPER ROOF AND TERMINATE 4' ABOVE SPLASH BLOCK ON LOWER ROOF AS INDICATED.
2. RUN OVERFLOW DRAIN LEADER DOWN FROM ROOF ABOVE AND COMBINE TOGETHER WITH OTHER OVERFLOW DRAIN ON VERTICAL DROP AT 2'-0" AFF.
3. RUN OVERFLOW DRAIN LEADER DOWN THRU ROOF AND COMBINE TOGETHER WITH OTHER OVERFLOW DRAIN AFTER 6 FOOT VERTICAL DROP WITHIN WALL. SEE SHEET P3.8.
4. NEW ROOF DRAIN AND OVERFLOW DRAIN ON PENTHOUSE LEVEL ROOF. SEE SHEET P3.9.

GENERAL NOTES

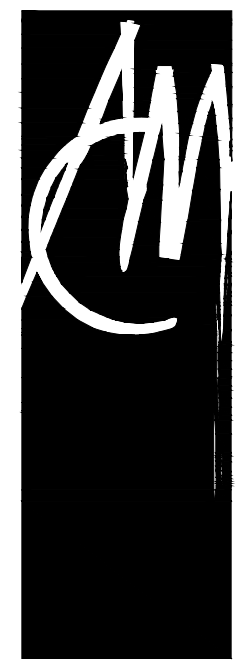
(SHEET SPECIFIC)

1. ALL ROOF DRAIN AND OVERFLOW DRAIN PIPING AREAS INCLUDE TRIBUTARY VERTICAL WALL AREAS IN SQUARE FEET INDICATED ON THIS ROOF PLAN.
2. SLOPE ALL HORIZONTAL ROOF DRAINAGE PIPING AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.



ROOF PLUMBING PLAN - WASTE, DRAIN AND VENT PIPING

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



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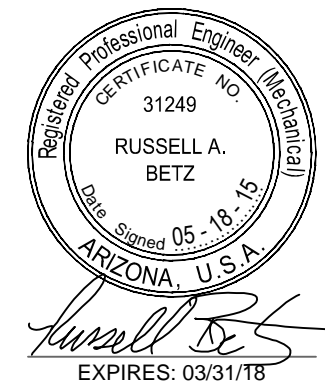
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Phoenix, Arizona

DRAWN: **LRW**

CHECKED: **RAB**

DATE: **08/22/14**

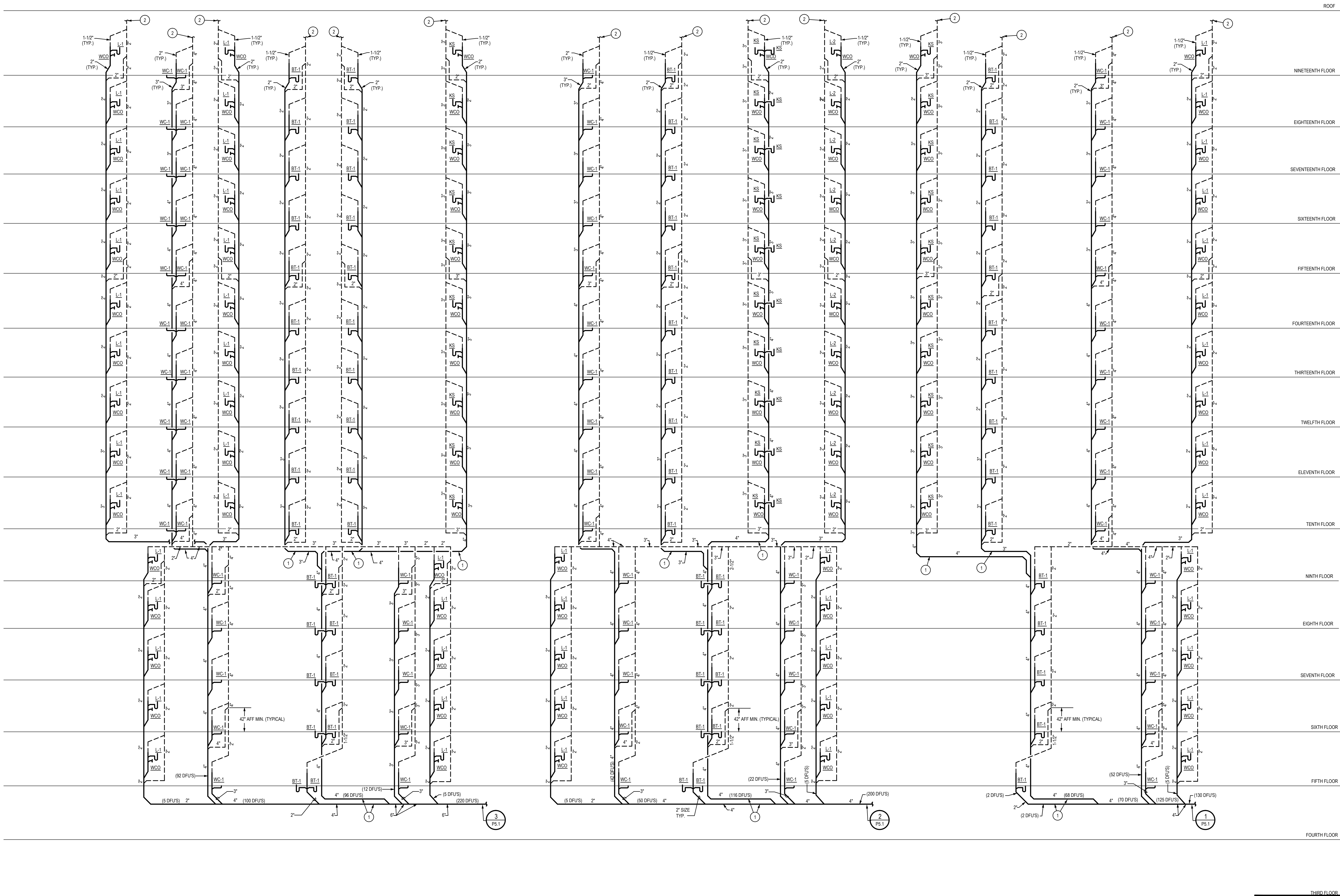
PROJECT NO.: **12-1601**

SHEET TITLE:
**ROOF PLUMBING
PLAN - WASTE, DRAIN
AND VENT PIPING**

SHEET NO.:

P3.10

FINAL FOR CONSTRUCTION - 05/18/15



LEGEND
BT = BATH/SHOWER (2 DFUS)
SH = SHOWER (2 DFUS)
WC = WATER CLOSET (3 DFUS)
L = LAVATORY (1 DFUS)
KS = KITCHEN SINK (4 DFUS)
(WITH DISHWASHER)

GENERAL NOTES

(SHEET SPECIFIC)

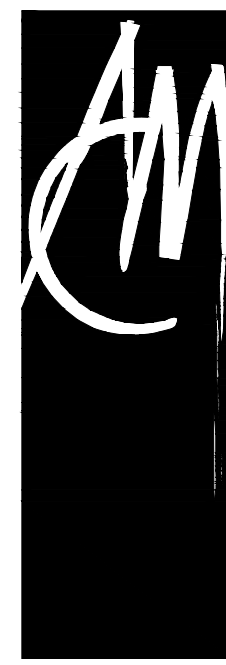
- ALL HORIZONTAL WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT WITHIN BUILDING.
- CONTRACTOR SHALL VERIFY WHICH FIXTURES ARE TO BE ADA COMPLIANT WITH ARCHITECTURAL PLANS FOR EXACT SUITE LOCATIONS ON EACH FLOOR.
- PROVIDE 3/4" TAILPIECE TEE FITTING ON EACH LAVATORY P-TRAP FOR CONDENSATE DRAIN PIPING SHOWN ON MECHANICAL PLANS.

KEYED NOTES (P)

(SHEET SPECIFIC)

- PROVIDE SUDS RELIEF PER UPC SECTION 711.0.
- FOR CONTINUATION, REFER TO SHEET P3.8.

FINAL FOR CONSTRUCTION - 05/18/15



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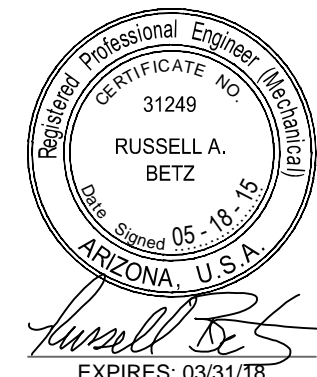
ARCHITECTS:
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CONSTRUCTION BID SET		03/09/2015
ADDENDUM A		02/02/2015
INSTRUCTION BULLETIN 1		02/23/2015
INSTRUCTION BULLETIN 2		05/11/2015

PROJECT:

**MARRIOTT RESIDENCE INN
- COURTYARD @ LUHRS**
A Development of - LUHRS CM, LLC
Phoenix, Arizona

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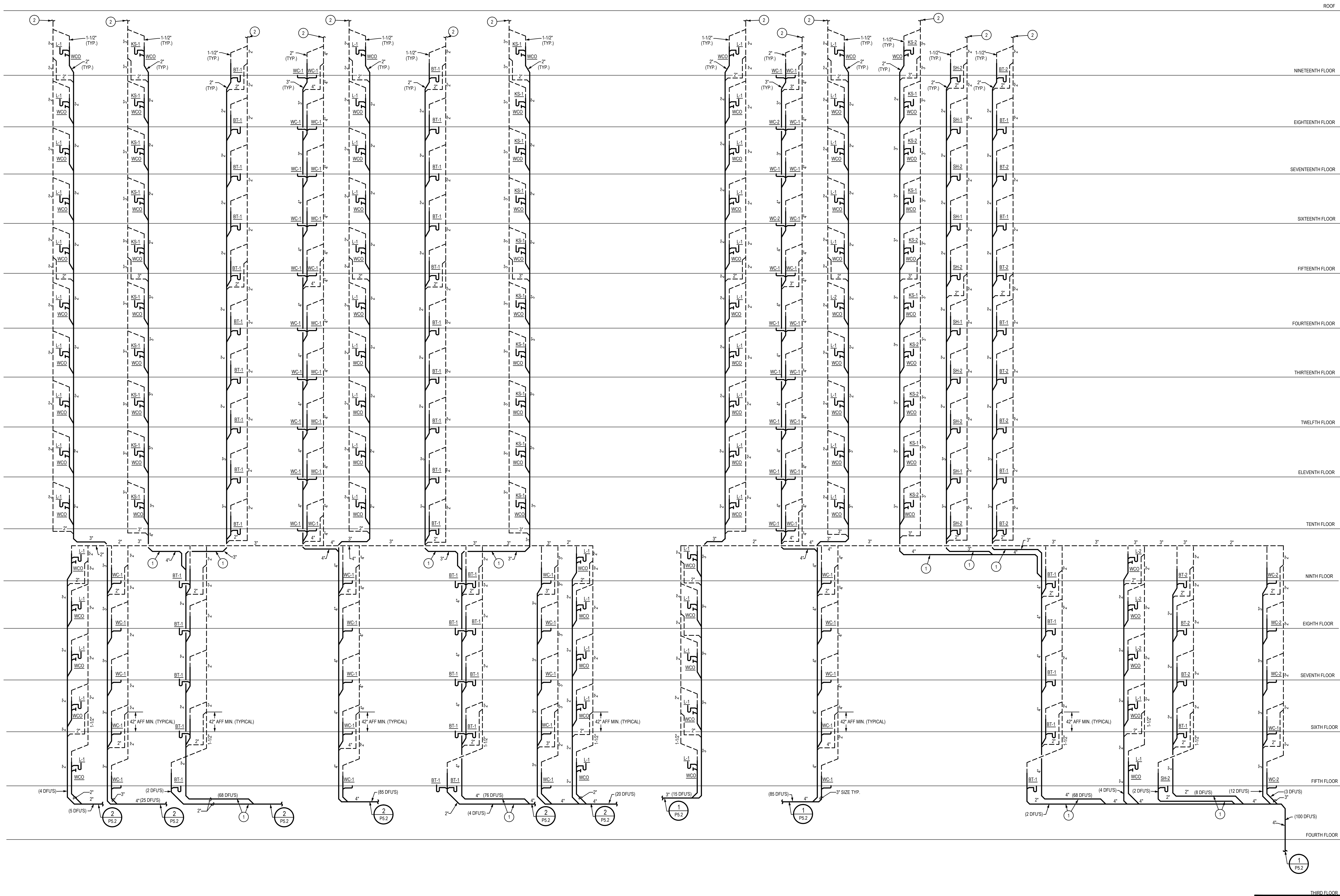
DATE: **08/22/14**

PROJECT NO.: **12-1601**

SHEET TITLE:
**WASTE AND VENT
RISER DIAGRAMS**

SHEET NO.:

P5.1



GENERAL NOTES

(SHEET SPECIFIC)

- ALL HORIZONTAL WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT WITHIN BUILDING.
- CONTRACTOR SHALL VERIFY WHICH FIXTURES ARE TO BE ADA COMPLIANT WITH ARCHITECTURAL PLANS FOR EXACT SUITE LOCATIONS ON EACH FLOOR.
- PROVIDE 3/4" TAILPIECE TEE FITTING ON EACH LAVATORY P-TRAP FOR CONDENSATE DRAIN PIPING SHOWN ON MECHANICAL PLANS.

KEYED NOTES (Ⓢ)

(SHEET SPECIFIC)

- PROVIDE SUDS RELIEF PER UPC SECTION 711.0.
- FOR CONTINUATION, REFER TO SHEET P3.8.

FINAL FOR CONSTRUCTION - 05/18/15



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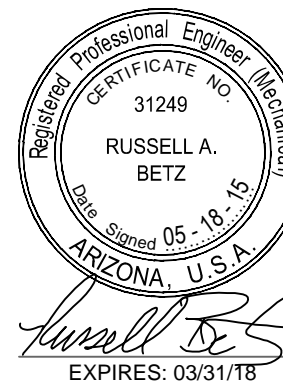
ARCHITECTS:
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REVISIONS:		
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PROJECT:

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 A Development of - LUHRS CM, LLC
 Phoenix, Arizona

DRAWN: **LRW**

CHECKED: **RAB**

DATE: **08/22/14**

PROJECT NO.: **12-1601**

**SHEET TITLE:
 WASTE AND VENT
 RISER DIAGRAMS**

SHEET NO.:

P5.2



LEGEND	
BT	= BATHSHOWER (2 DFUS)
SH	= SHOWER (2 DFUS)
WC	= WATER CLOSET (3 DFUS)
L	= LAVATORY (1 DFUS)
KS	= KITCHEN SINK (4 DFUS)
	(WITH DISHWASHER)

GENERAL NOTES

A. ALL HORIZONTAL WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT WITHIN BUILDING.

KEYED NOTES (Ⓢ)

1. PROVIDE SUDS RELIEF PER UPC SECTION 711.0.
2. FOR CONTINUATION, REFER TO SHEET P3.8.

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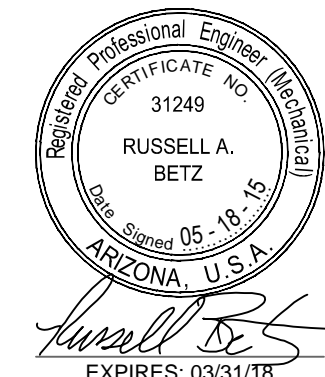
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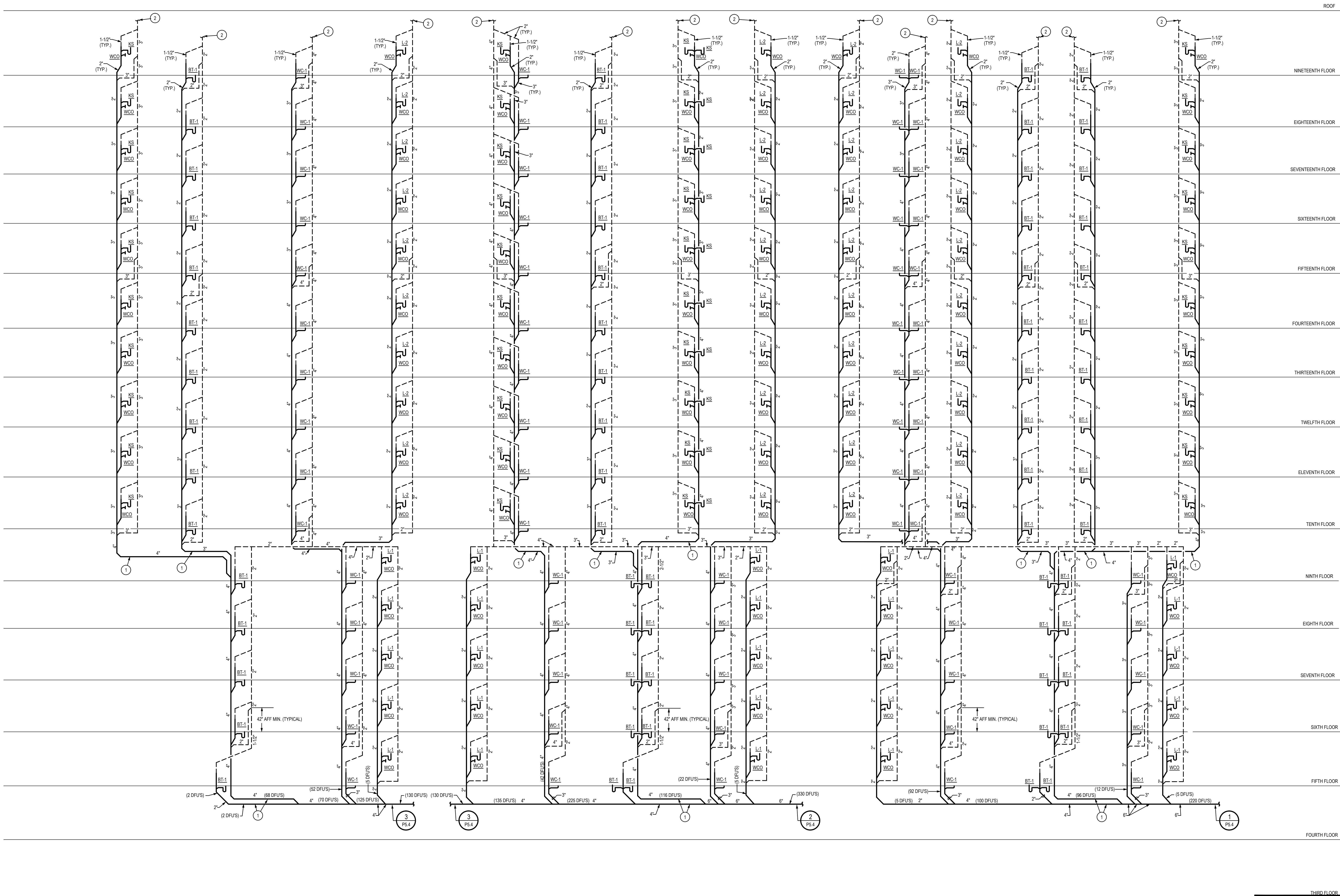
DATE: **08/22/14**

PROJECT NO.: **12-1601**

SHEET TITLE:
**WASTE AND VENT
RISER DIAGRAMS**

SHEET NO.:

P5.3



LEGEND	
BT	= BATHSHOWER (2 DFUS)
SH	= SHOWER (2 DFUS)
WC	= WATER CLOSET (3 DFUS)
L	= LAVATORY (1 DFUS)
KS	= KITCHEN SINK (4 DFUS)
	(WITH DISHWASHER)

GENERAL NOTES (SHEET SPECIFIC)

A. ALL HORIZONTAL WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT WITHIN BUILDING.

KEYED NOTES (P5.4) (SHEET SPECIFIC)

1. PROVIDE SUDS RELIEF PER UPC SECTION 711.0.
2. FOR CONTINUATION, REFER TO SHEET P3.8.

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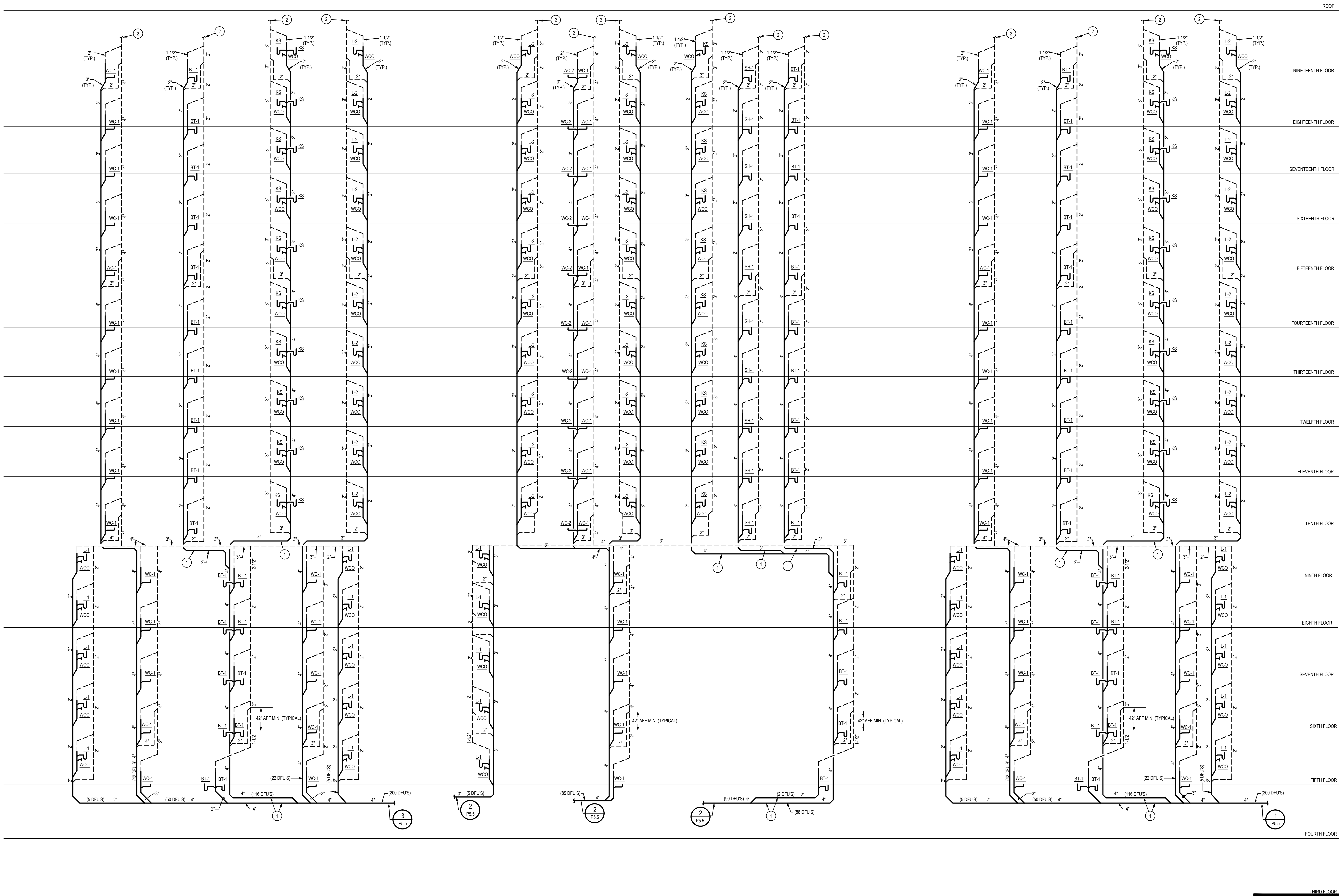
DATE: 08/22/14

PROJECT NO.: 12-1601

SHEET TITLE:
WASTE AND VENT
RISER DIAGRAMS

SHEET NO.:

P5.4



LEGEND	
BT	= BATHSHOWER (2 DFUS)
SH	= SHOWER (2 DFUS)
WC	= WATER CLOSET (3 DFUS)
L	= LAVATORY (1 DFUS)
KS	= KITCHEN SINK (4 DFUS)
	(WITH DISHWASHER)

GENERAL NOTES

(SHEET SPECIFIC)

KEYED NOTES (Ⓢ)

(SHEET SPECIFIC)

1. PROVIDE SUDS RELIEF PER UPC SECTION 711.0.
2. FOR CONTINUATION, REFER TO SHEET P3.8.



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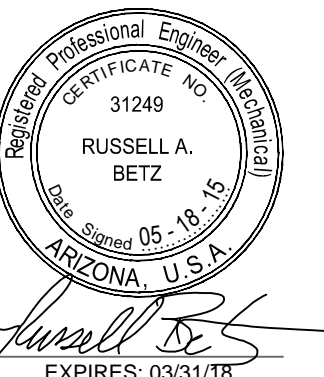
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PROJECT:

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Phoenix, Arizona

DRAWN: **LRW**

CHECKED: **RAB**

DATE: **08/22/14**

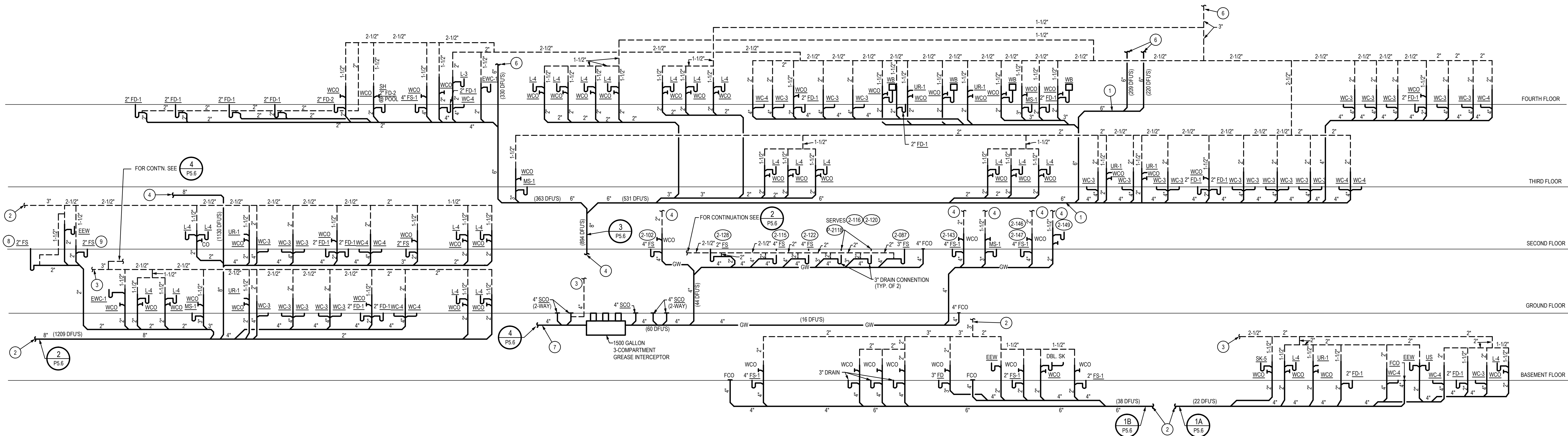
PROJECT NO.: **12-1601**

SHEET TITLE:
**WASTE AND VENT
RISER DIAGRAMS**

SHEET NO.:

P5.5

FINAL FOR CONSTRUCTION - 05/18/15



WASTE AND VENT SCHEMATIC

NOT TO SCALE

LEGEND	
WC = WATER CLOSET (4 DFUS)	
L = LAVATORY (1 DFUS)	
UR = URINAL (2 DFUS)	
EW = ELECTRIC WATER COOLER (1 DFU)	
SH = SHOWER (2 DFUS)	
SK = SINK (2 DFUS)	
LS = LAUNDRY SINK (3 DFUS)	
MS = MOP SINK (4 DFUS)	
FD = FD (2") (4 DFUS)	
FD = FD (3") (6 DFUS)	
FS = FS (2") (4 DFUS)	
FS = FS (3") (6 DFUS)	
FS = FS (4") (8 DFUS)	

GENERAL NOTES

(SHEET SPECIFIC)

A. ALL HORIZONTAL WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT WITHIN BUILDING.

KEYED NOTES (Ⓢ)

(SHEET SPECIFIC)

1. PROVIDE SUDS RELIEF PER UPC SECTION 711.0.
2. FOR CONTINUATION, REFER TO SHEET P3.0.
3. FOR CONTINUATION, REFER TO SHEET P3.1.
4. FOR CONTINUATION, REFER TO SHEET P3.2.
5. FOR CONTINUATION, REFER TO SHEET P3.3.
6. FOR CONTINUATION, REFER TO SHEET P3.4.
7. 4" WASTE TO SANITARY SEWER, SEE SHEET P3.1.
8. LOCATED IN DRY STORAGE SERVING CONDENSATE DRAINS FROM COOLER AND FREEZER COILS.
9. LOCATED IN MECHANICAL ROOM 215 SERVING CONDENSATE DRAIN.



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INSTRUCTION BULLETIN 1 02/23/2015
INSTRUCTION BULLETIN 2 05/11/2015

PROJECT:

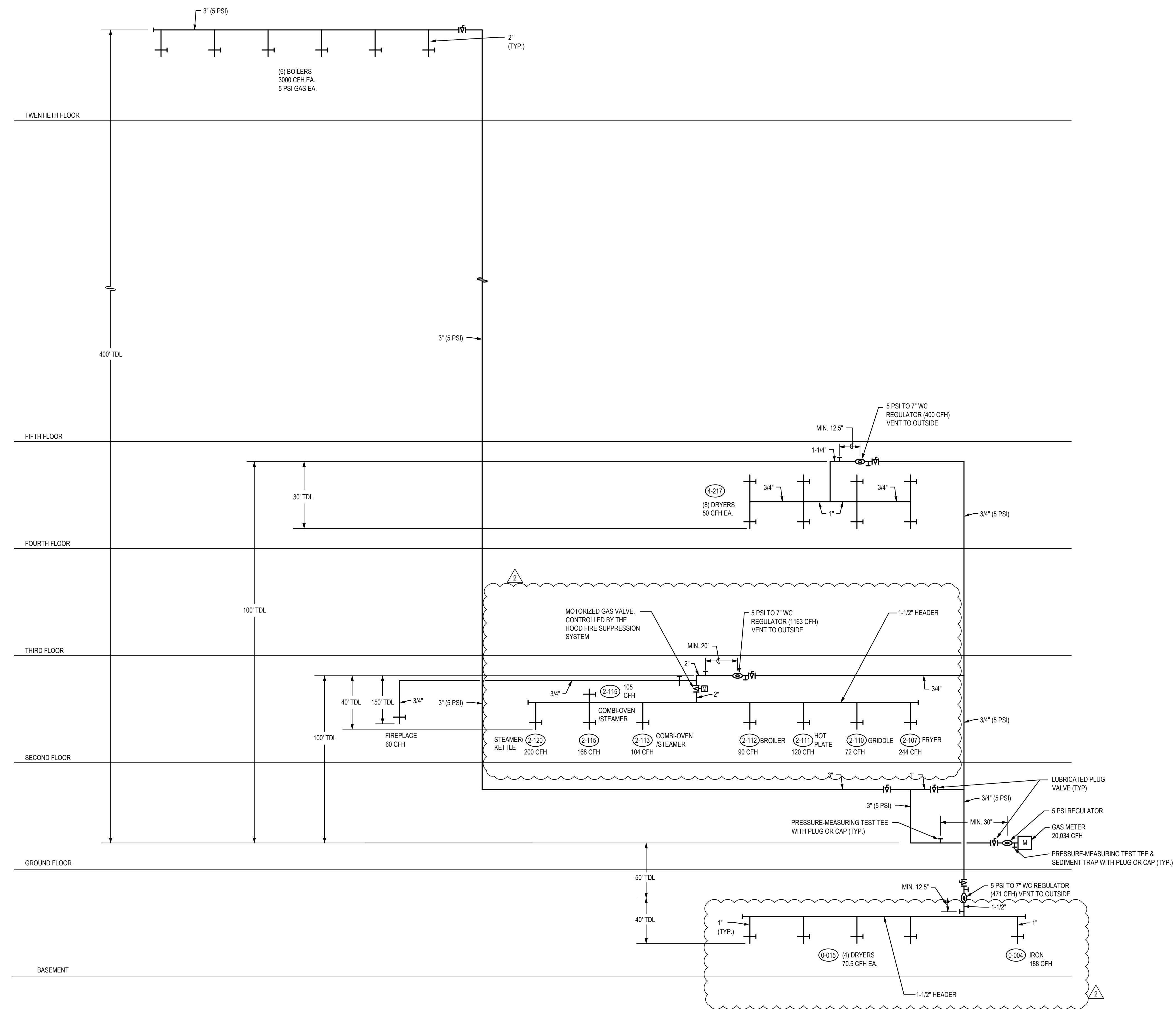
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Phoenix, Arizona

DRAWN: **LRW**
CHECKED: **RAB**
DATE: **08/22/14**
PROJECT NO.: **12-1601**

SHEET TITLE:
**WASTE AND VENT
RISER DIAGRAMS**

SHEET NO.:

P5.6



GAS DIAGRAM

NOT TO SCALE 20,034 CFH



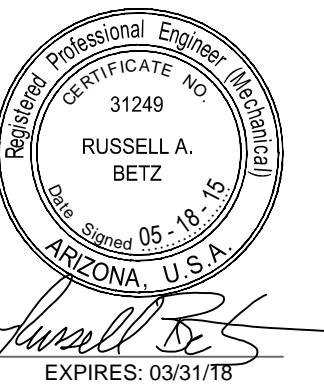
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INSTRUCTION BULLETIN 2 05/11/2015

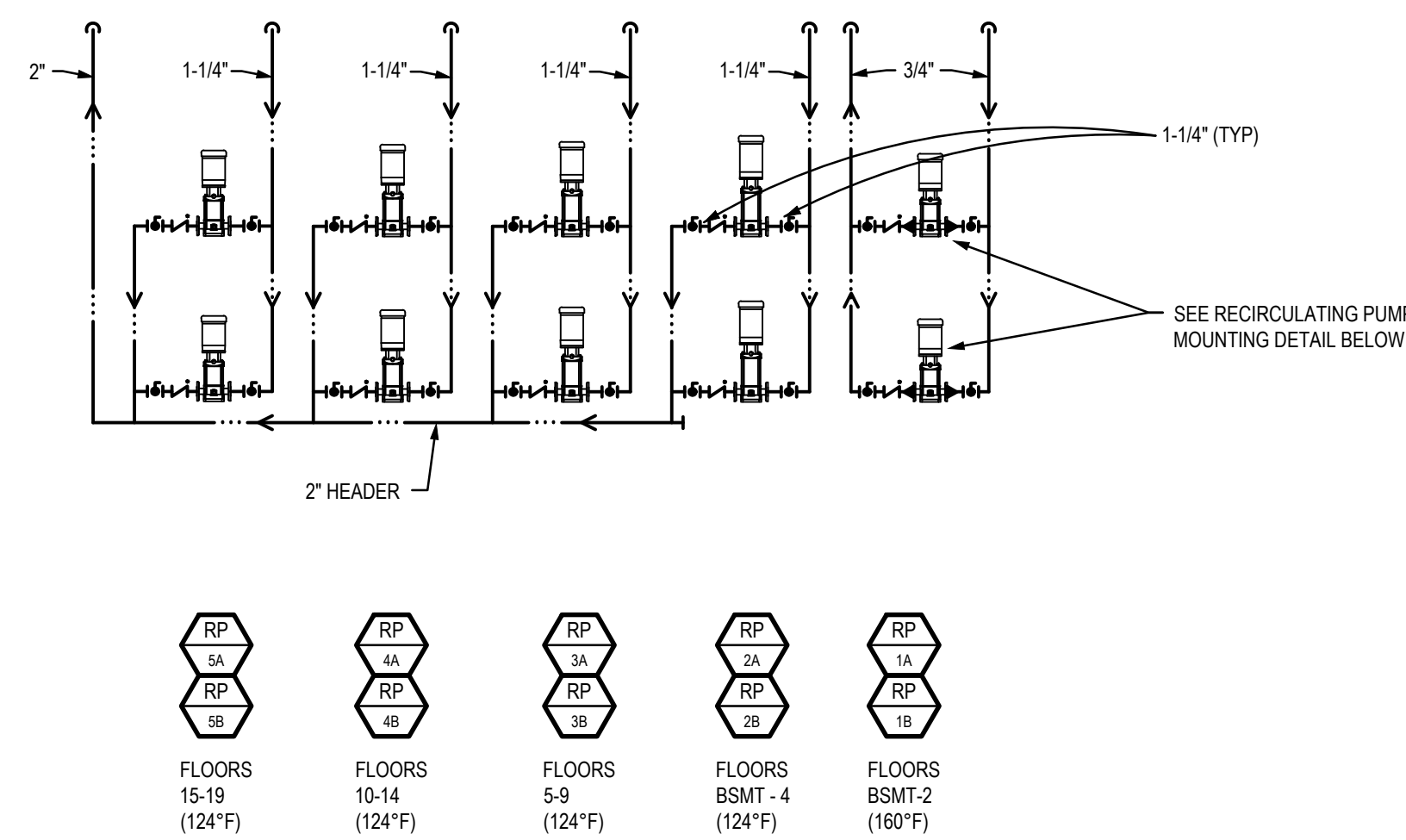
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DRAWN: **TS**
CHECKED: **LAM/RAB**
DATE: **08/22/14**
PROJECT NO.: **12-1601**

SHEET TITLE:
**GAS RISER
DIAGRAMS**

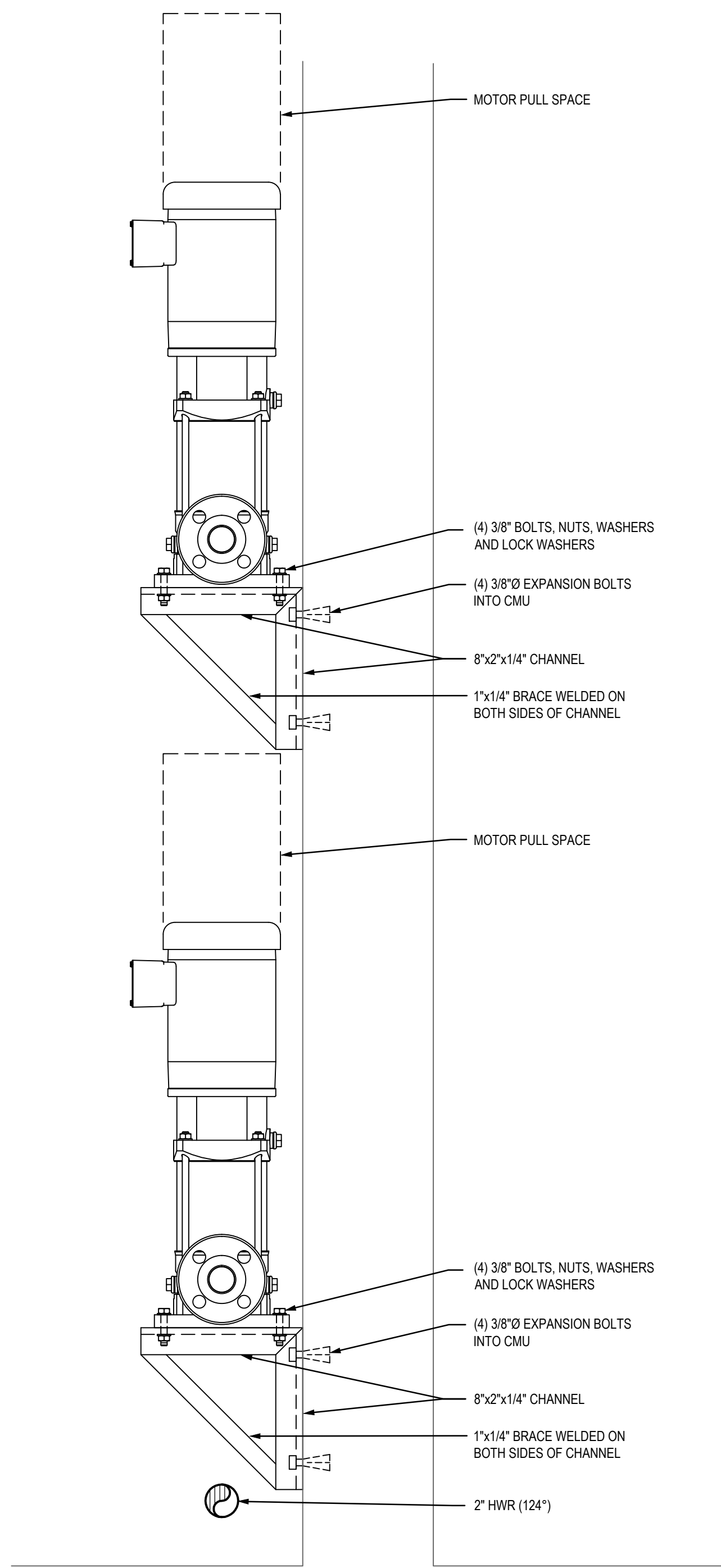
SHEET NO.:
P6.2



DOMESTIC HOT WATER RECIRCULATING PUMPS

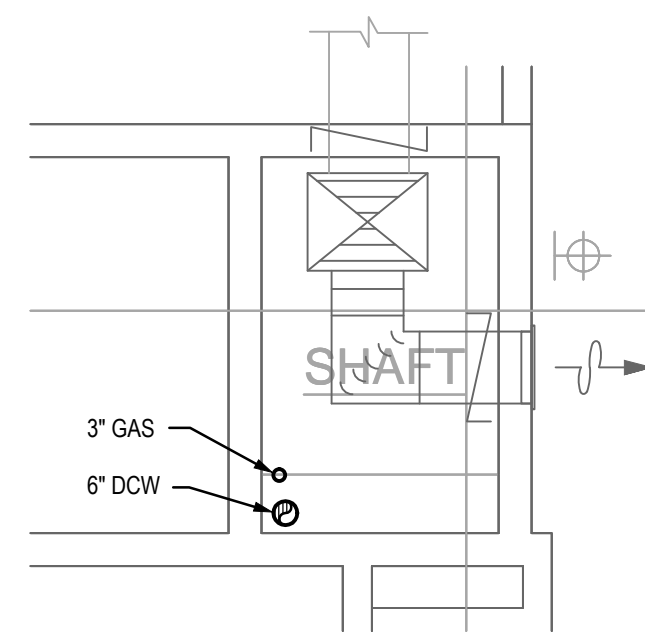
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AIR HANDLER ROOM B104



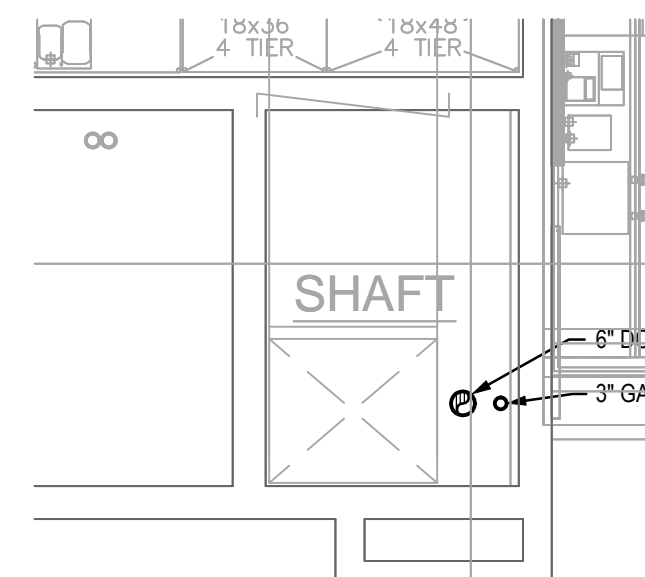
RECIRCULATING PUMP MOUNTING DETAIL

NOT TO SCALE



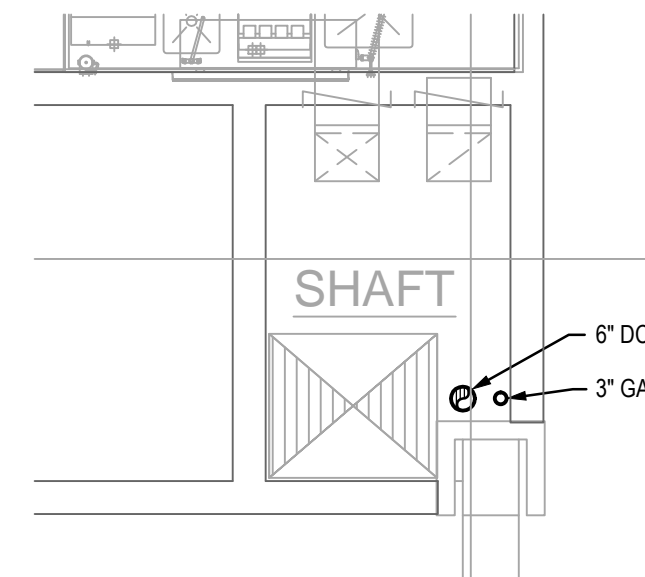
5TH TO 19TH FLOORS

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



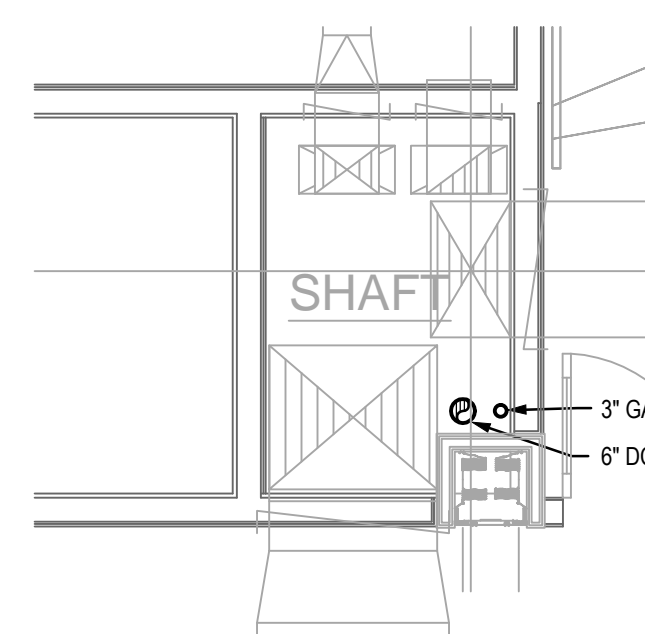
4TH FLOOR SHAFT

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



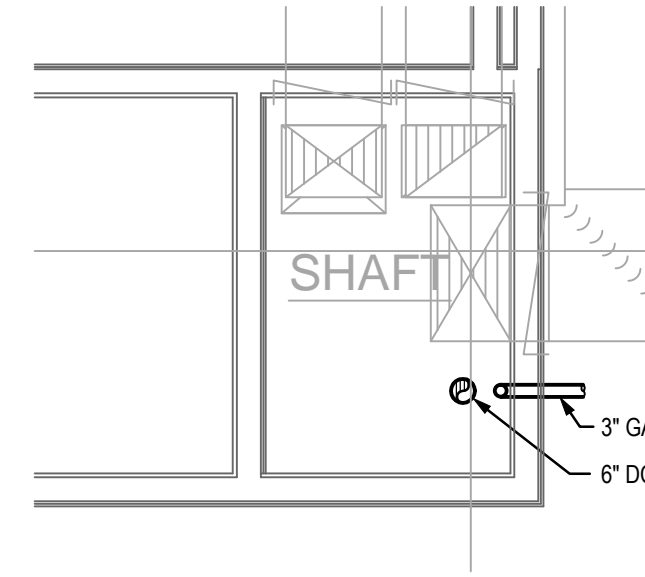
3RD FLOOR SHAFT

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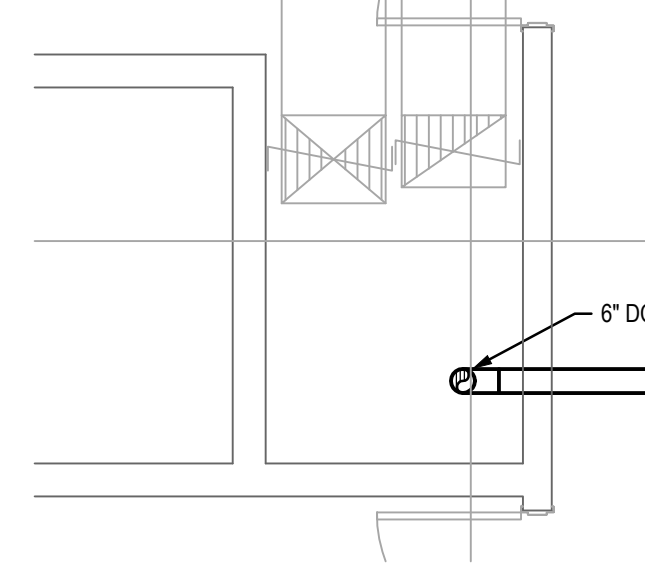
2ND FLOOR SHAFT

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GROUND FLOOR SHAFT

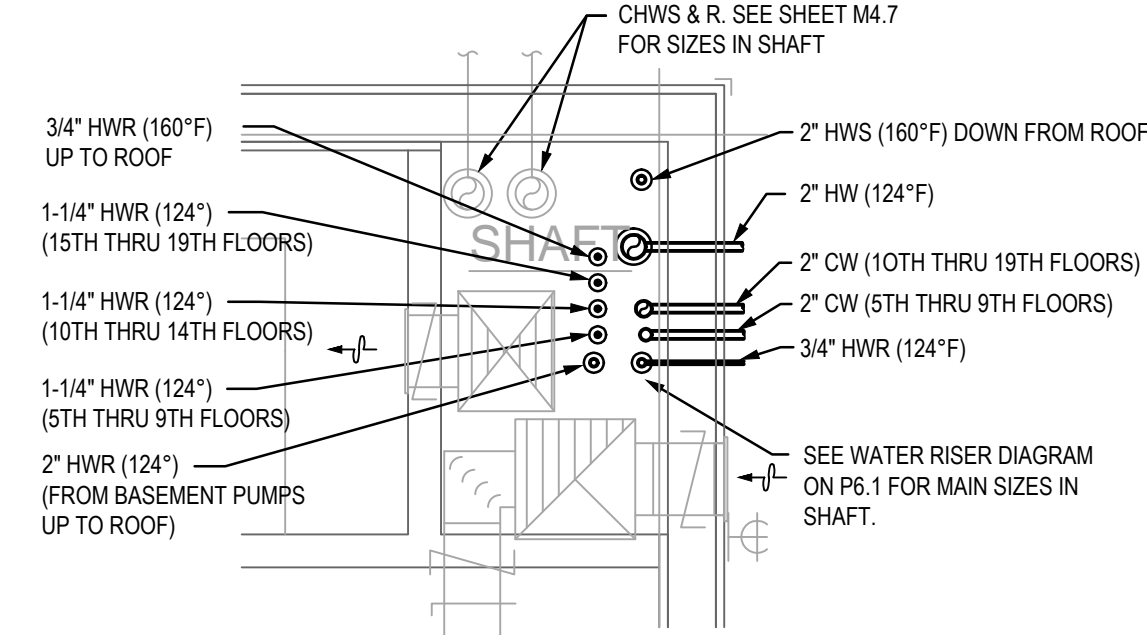
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BASEMENT FLOOR SHAFT

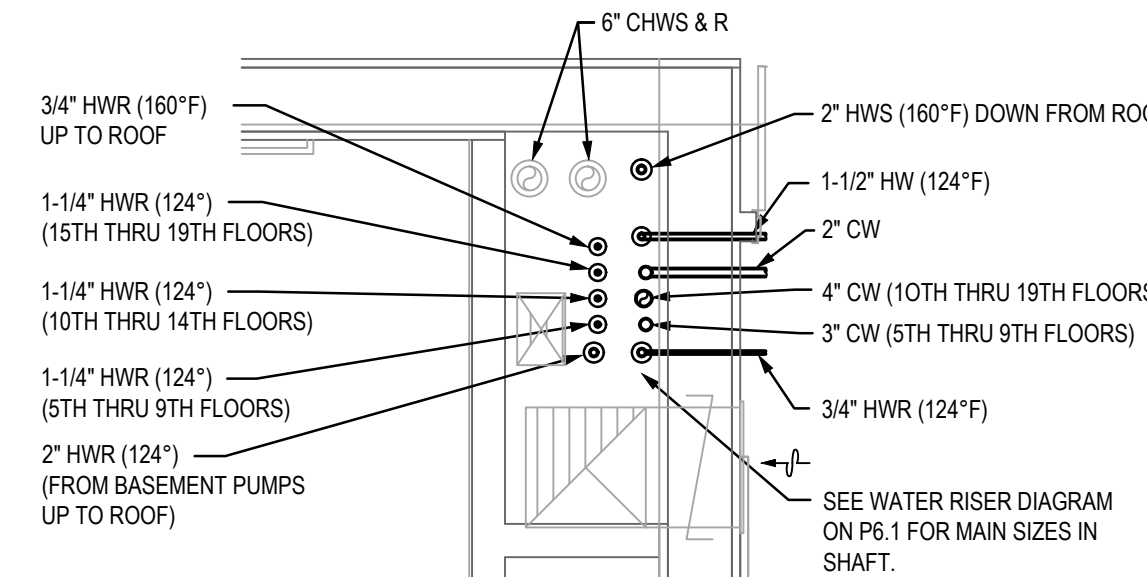
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SHAFT #3



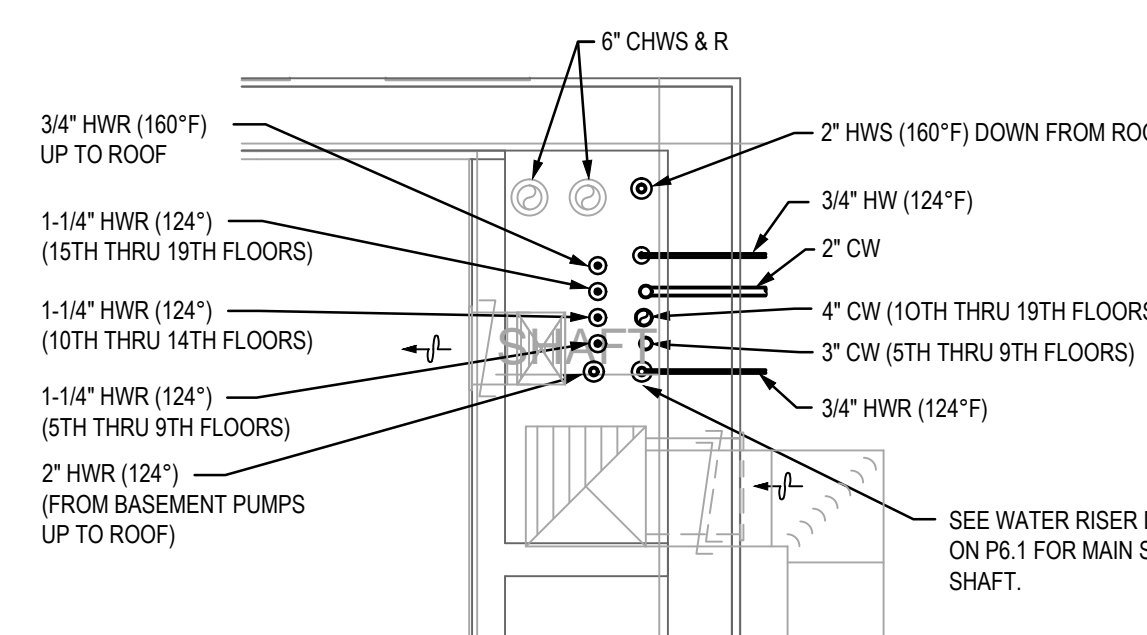
5TH TO 19TH FLOORS

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



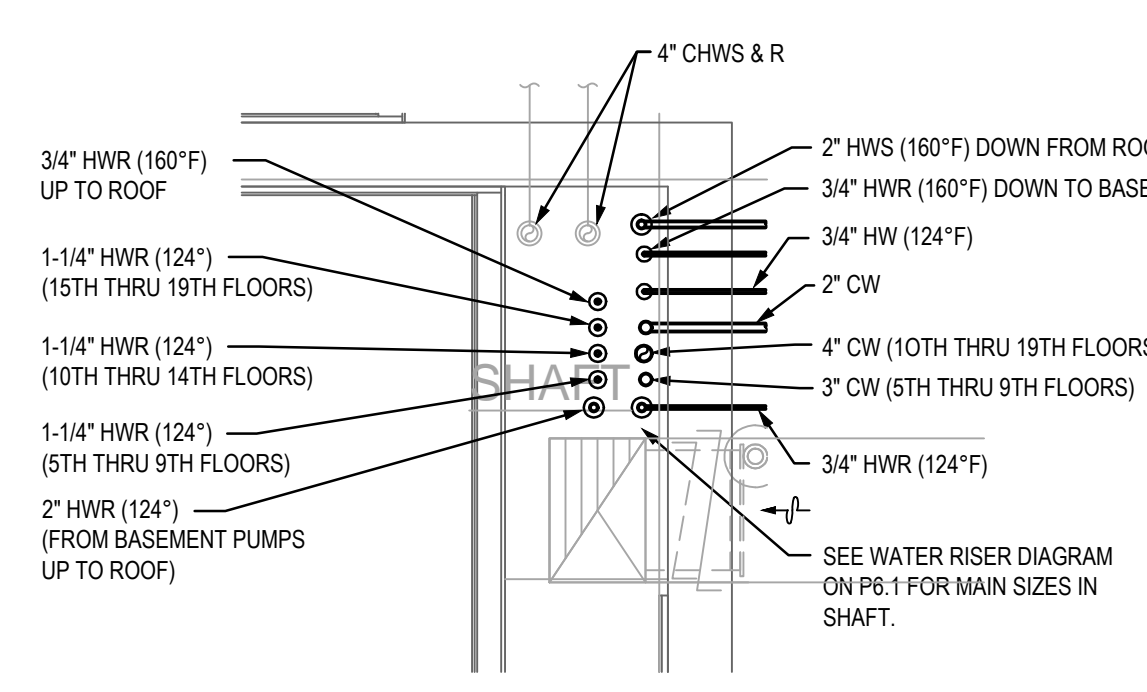
4TH FLOOR SHAFT

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



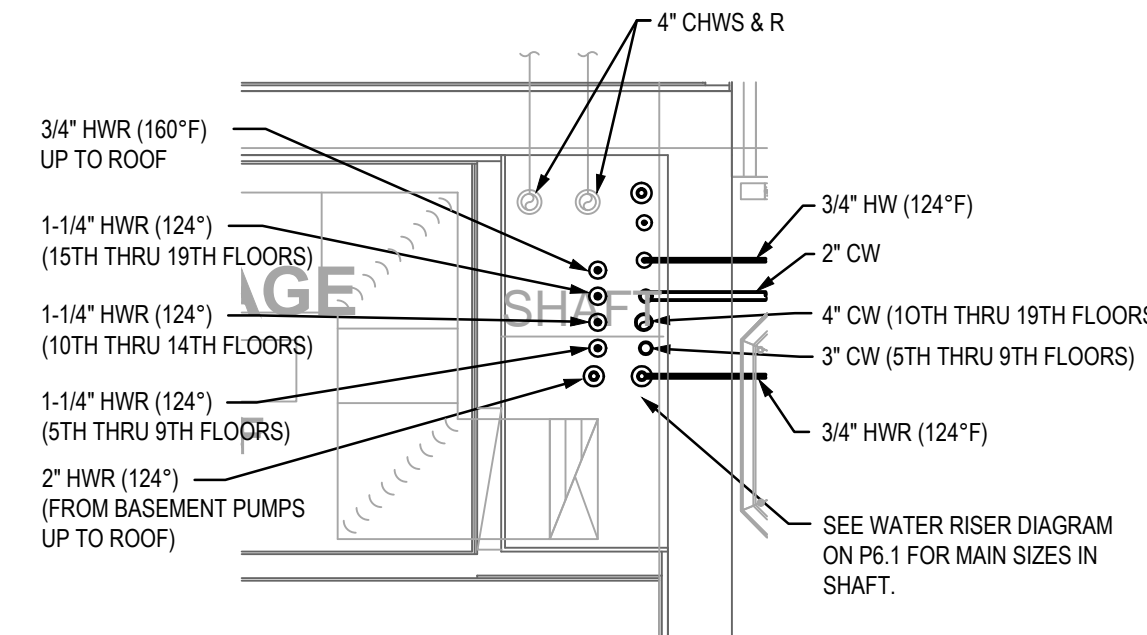
3RD FLOOR SHAFT

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



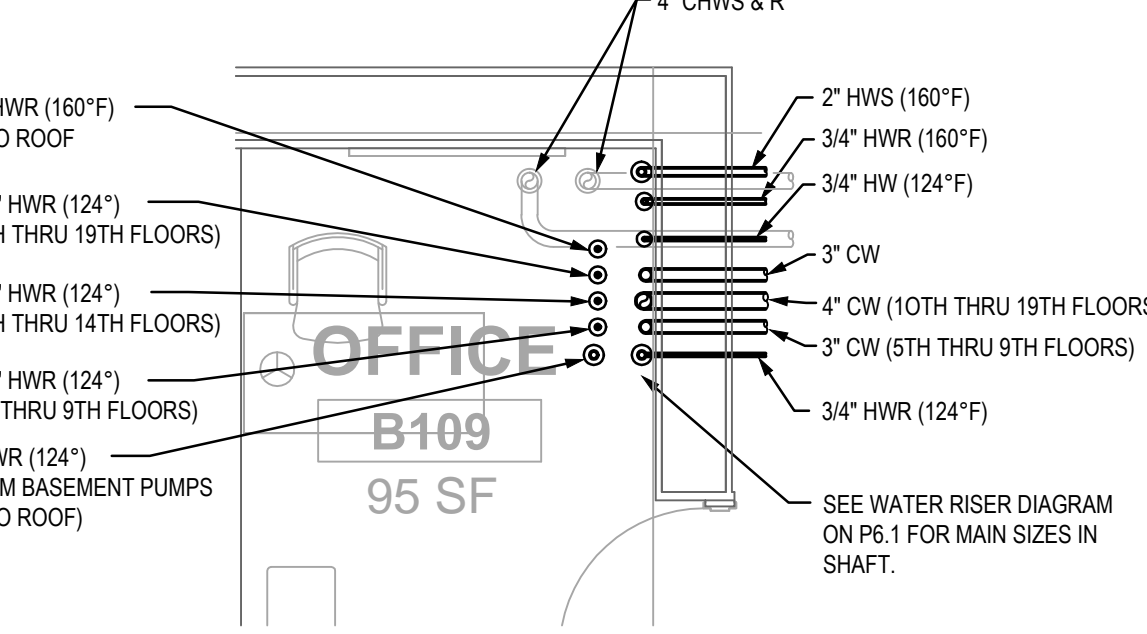
2ND FLOOR SHAFT

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



GROUND FLOOR SHAFT

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



BASEMENT FLOOR PLAN

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

SHAFT #2



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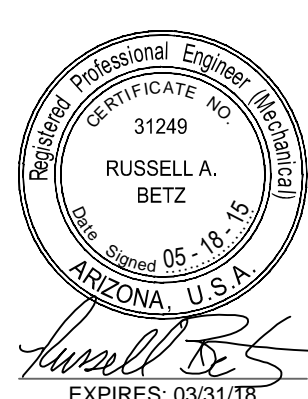
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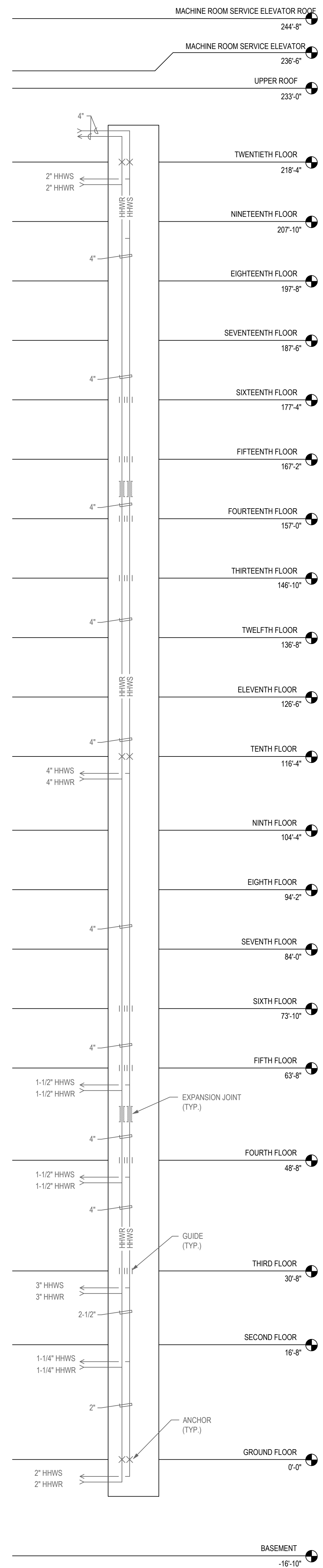
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PROJECT NO.:	12-1601
SHEET TITLE:	SHAFT DETAILS

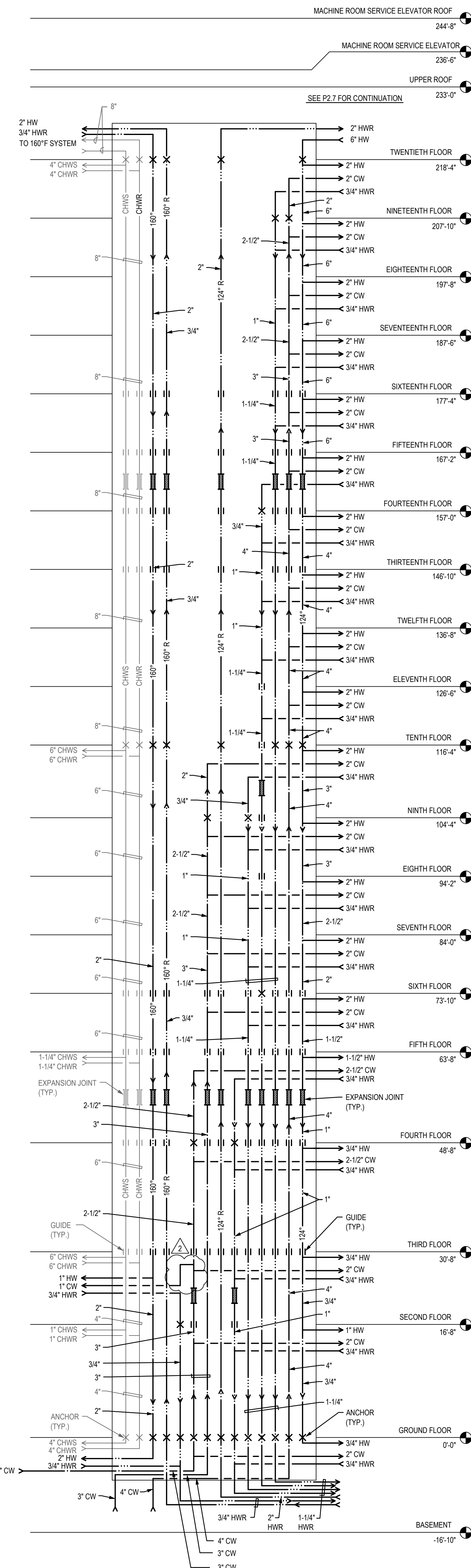
SHEET NO.:

P6.3

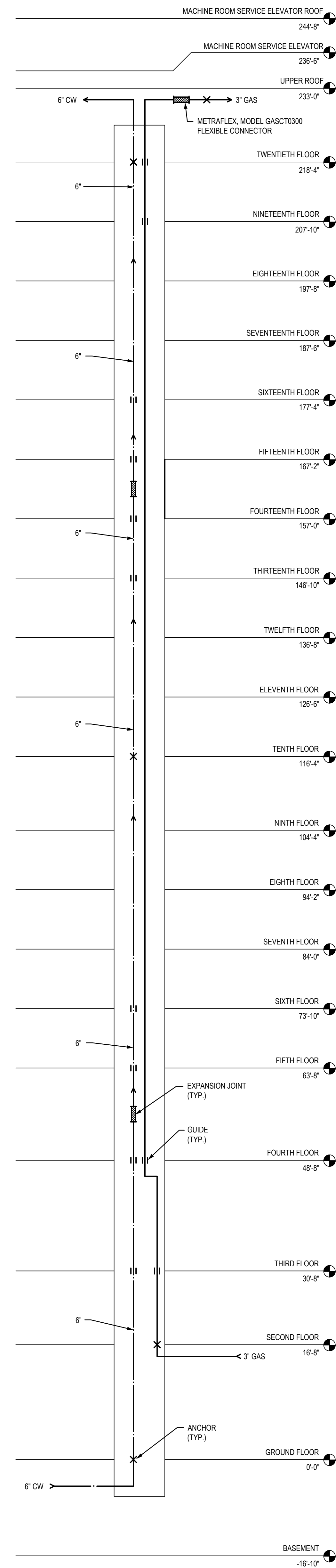
FINAL FOR CONSTRUCTION - 05/18/15



PLUMBING EXPANSION/CONTRACTION PIPING DIAGRAM - SHAFT #1



PLUMBING EXPANSION/CONTRACTION PIPING DIAGRAM - SHAFT #2



PLUMBING EXPANSION/CONTRACTION PIPING DIAGRAM - SHAFT #3

PIPE SHAFT EXPANSION & CONTRACTION GENERAL NOTES:

THIS DRAWING REPRESENTS A PERFORMANCE DESIGN INTENT TO ADDRESS THE SUPPORT AND EXPANSION/CONTRACTION OF THE PIPING ROUTED IN THE SHAFTS ON THIS PROJECT. THE ENTIRE INSTALLATION OF THE ANCHORS, GUIDES AND EXPANSION JOINTS IS TO BE PER THE MANUFACTURER'S WRITTEN REQUIREMENTS. THIS CONTRACTOR IS TO PROVIDE A SHOP DRAWING SUBMITTAL OF THE CALCULATIONS AND MANUFACTURER'S REQUIREMENTS OF PREDICTED PIPE EXPANSION AND ANCHOR FORCES FOR THE ENGINEER'S REVIEW. APPROVED MANUFACTURERS OF THIS SYSTEM ARE:

1. METRAFLEX
2. MASON
3. ADSCO

METRAFLEX EXPANSION JOINT MODEL NO'S AND GUIDE SHOWN FOR REFERENCE.

EXPANSION JOINT FOR COPPER PIPING 4" AND SMALLER.

METRAFLEX MODEL HPFF 3, HIGH PRESSURE AXIAL EXTERNALLY PRESSURIZED EXPANSION JOINT.

EXPANSION JOINT FOR COPPER PIPING ABOVE 4" :

METRAFLEX "METRAGATOR" 300 PSI STAINLESS STEEL 4" AXIAL EXTERNALLY PRESSURIZED EXPANSION JOINT

EXPANSION JOINT FOR STEEL PIPING:


METRAFLEX "METRAGATOR" 300 PSI STEEL 4" AXIAL EXTERNALLY PRESSURIZED EXPANSION JOINT.

GUIDE:

METRAFLEX VIBRATION ISOLATING RISER GUIDE (PROVIDE OPTIONAL DIELECTRIC SPACER FOR COPPER PIPE).

MECHANICAL PIPING SHOWN LIGHT IS FOR REFERENCE ONLY.

<u>TEMPERATURE PARAMETERS:</u>	
1. AMBIANT INSTALLATION TEMPERATURE:	40°F WINTER 120°F SUMMER
2. DOMESTIC COLD WATER:	70°F
3. DOMESTIC HOT WATER: PUBLIC USE: KITCHEN / LAUNDRY:	124°F 160°F
4. RECIRCULATION PIPING: PUBLIC USE: KITCHEN / LAUNDRY:	124°F 160°F



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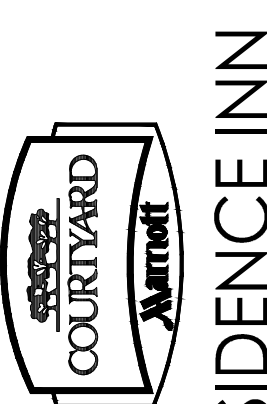
CONSULTANTS:



REVISIONS:

CONSTRUCTION BID SET	03/09/2015
ADDENDUM A	02/02/2015
INSTRUCTION BULLETIN 1	02/23/2015
INSTRUCTION BULLETIN 2	05/11/2015

PROJECT:



MARRIOTT RESIDENCE INN
- COURTYARD @ LUHRS
A Development of - LUHRS CM, LLC
Phoenix, Arizona

DRAWN: TS

CHECKED: **IAM/RAB**

DATE: 08/22/11

DATE: 06/22/14

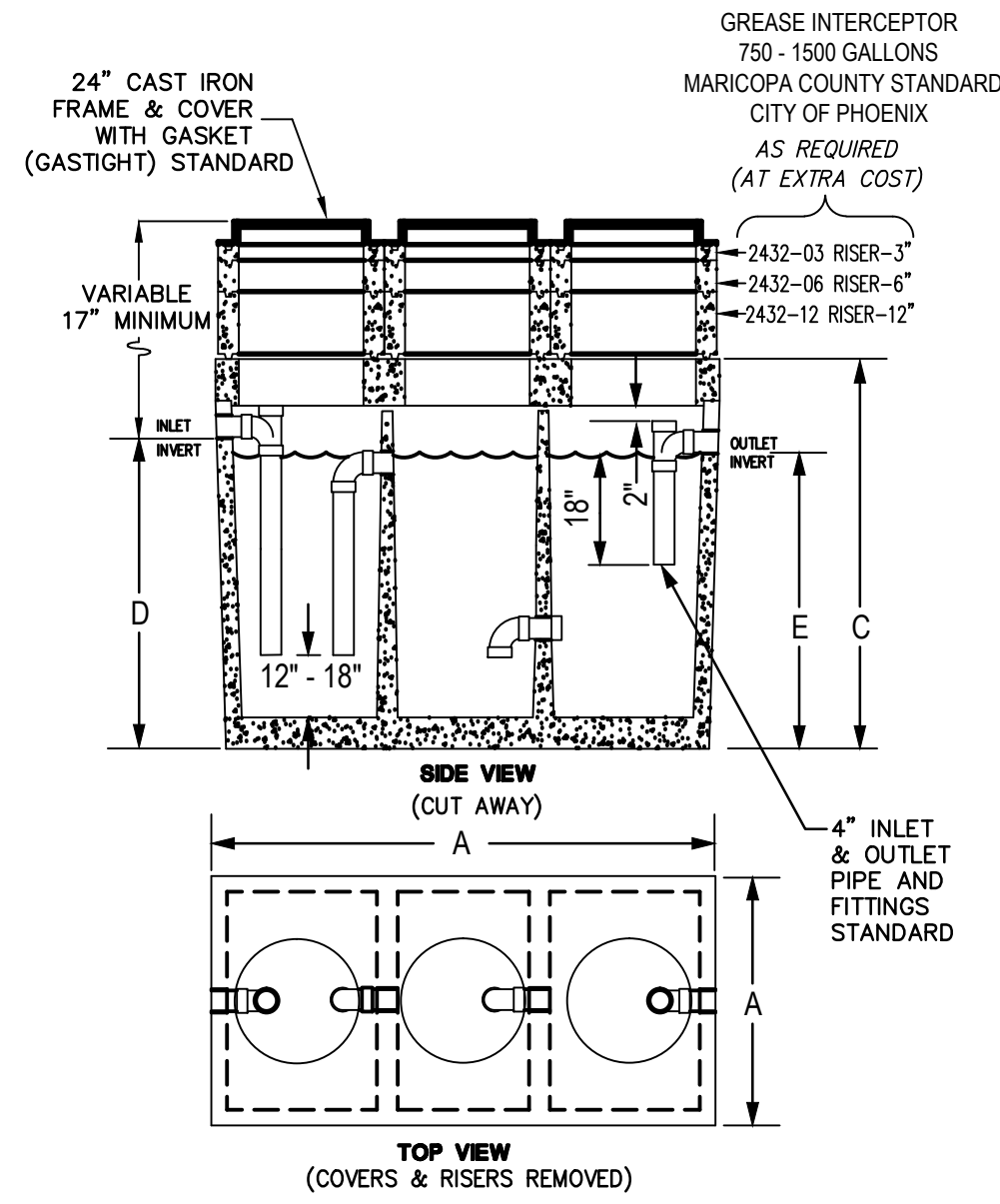
PROJECT NO.: 12-1601

SHEET TITLE:
PLUMBING
EXPANSION/
CONTRACTION
PIPING DIAGRAM

SHEET NO.:

P6.4

FINAL FOR CONSTRUCTION - 05/18/15

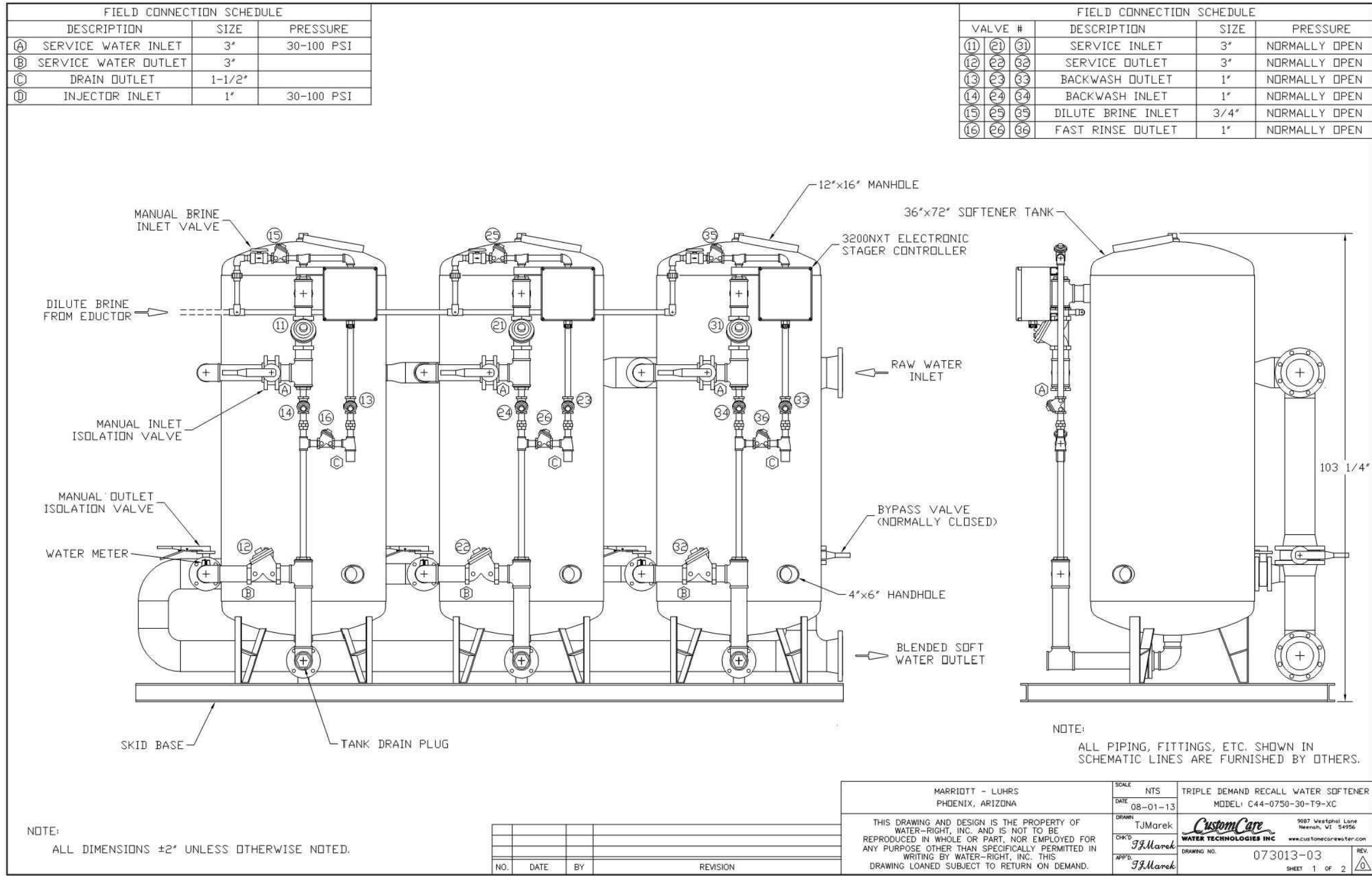


MODEL NUMBER	LIQUID CAPACITY GALLONS	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	DIMENSION E	MINIMUM EXCAVATION WIDTH	MINIMUM EXCAVATION LENGTH
CL750ECE-G	750	4'-0"	8'-1"	6'-3"	5'-0"	4'-9"	5'-0"	9'-1"
CL1000ECE-G	1000	5'-1"	8'-2"	6'-3"	5'-0"	4'-9"	6'-1"	9'-2"
CL1200ECE-G	1200	5'-9"	8'-6"	6'-6"	5'-0"	4'-9"	6'-9"	9'-6"
CL1500ECE-G	1500	5'-7"	10'-8"	6'-3"	5'-0"	4'-9"	6'-7"	11'-8"

BOX DESIGN LOAD: H-20 TRAFFIC.
FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

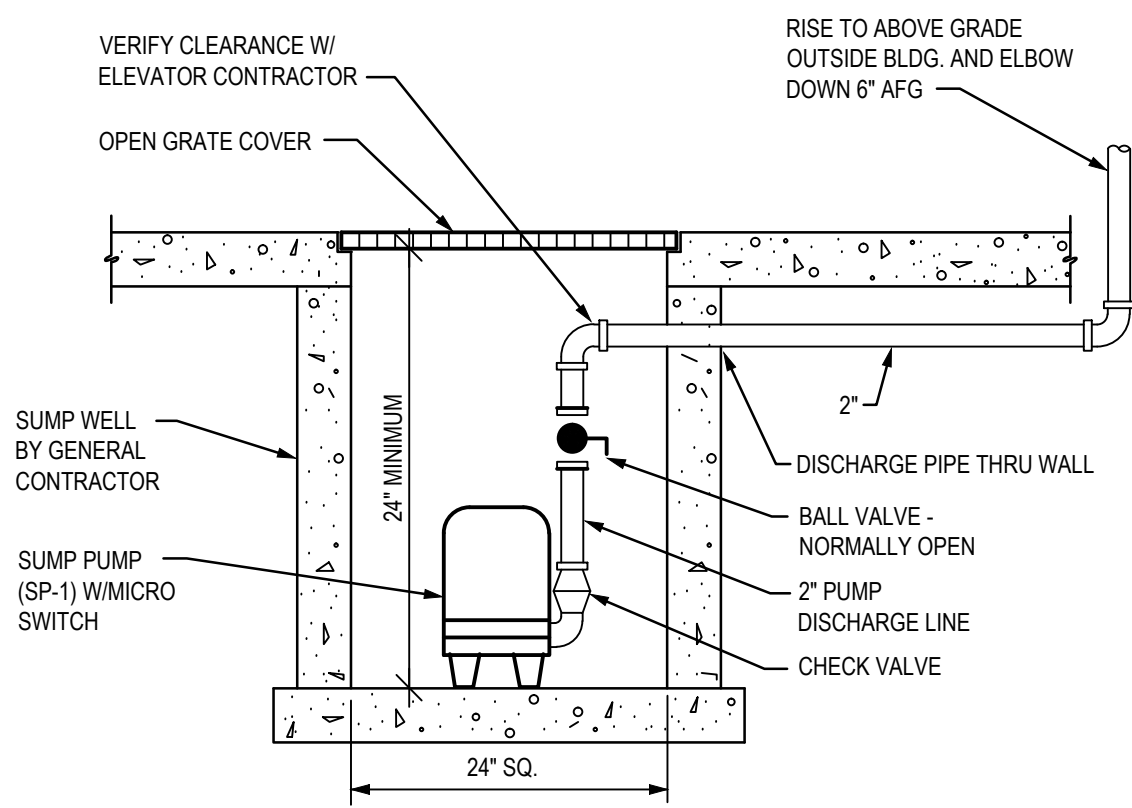
3-COMP. GREASE INTERCEPTOR DETAIL

NOT TO SCALE



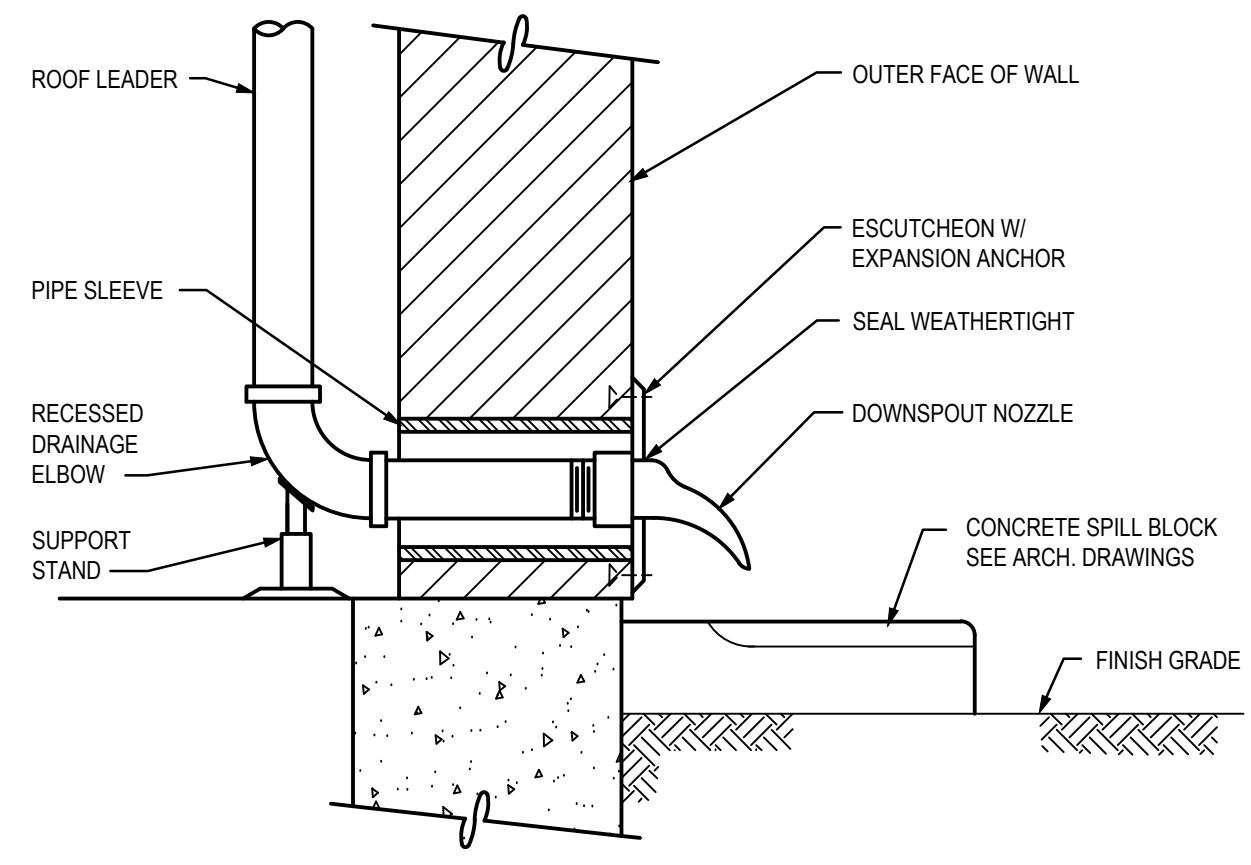
WATER SOFTENER PIPING DIAGRAM

NOT TO SCALE



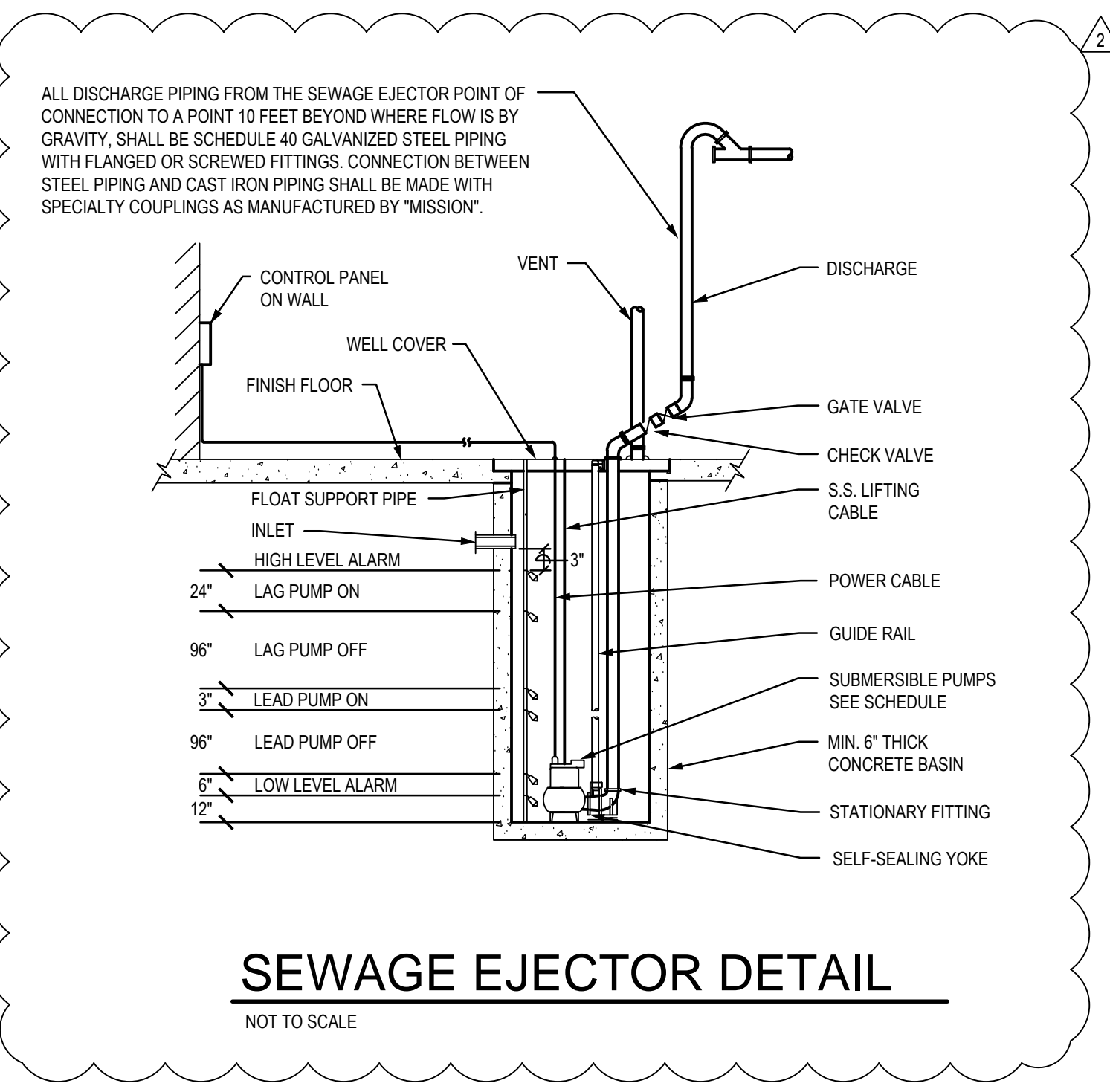
SUMP PUMP DETAIL

NOT TO SCALE



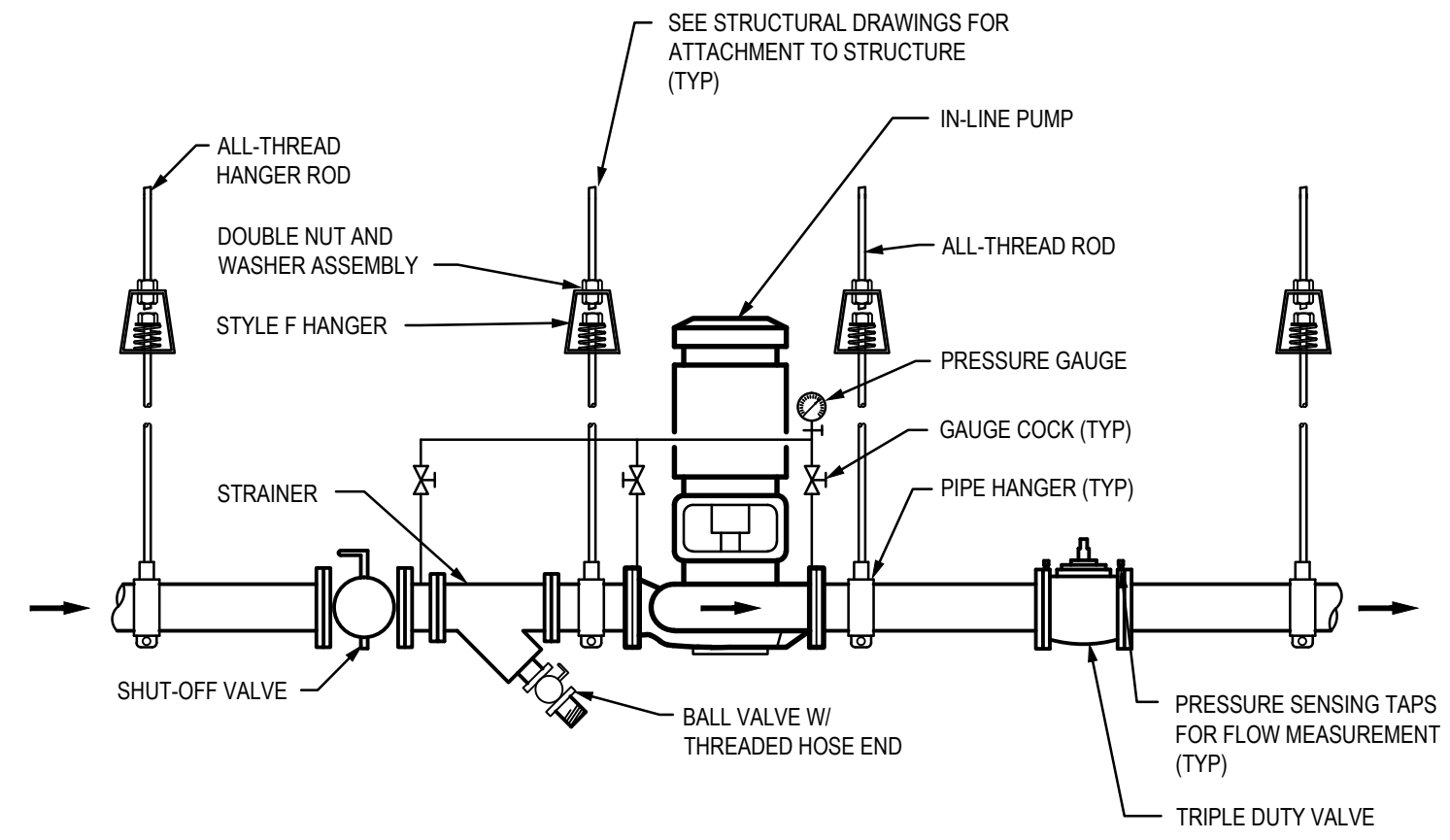
RAINWATER PIPE THRU WALL DETAIL

NOT TO SCALE



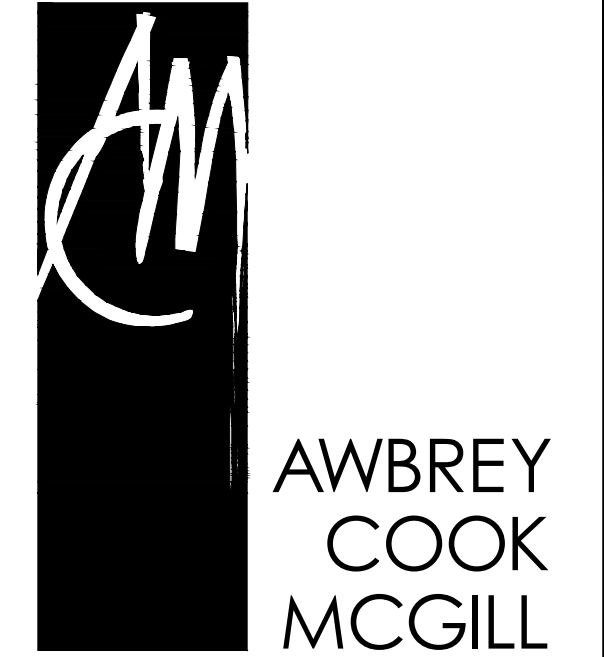
SEWAGE EJECTOR DETAIL

NOT TO SCALE



IN-LINE PUMP DETAIL

NOT TO SCALE



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ARIZONA, U.S.A.
EXPIRES: 03/31/18

REVISIONS:
CONSTRUCTION BID SET 03/09/2015
ADDENDUM A 02/02/2015
INSTRUCTION BULLETIN 1 02/23/2015
INSTRUCTION BULLETIN 2 05/11/2015

PROJECT:
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- COURTYARD @ LUHRS
A Development of - LUHRS CM, LLC
Phoenix, Arizona

DRAWN: TS
CHECKED: RAB
DATE: 08/22/14
PROJECT NO.: 12-1601

SHEET TITLE:
PLUMBING
DETAILS

SHEET NO.:
P7.1

[illegible]

NOTES:

- 1 PROVIDE WITH RED/HOT AND BLUE/COLD WATER INDICATORS ON ALL FIXTURES.
- 2 SIZE PER PLANS.
- 3 FLUSH TRIGGER SHALL BE ON WIDE SIDE OF ROOM.
- 4 WHITE COLOR FOR TOILET SHALL BE SAME WHITE COLOR AS TUB. VERIFY COLOR PRIOR TO ORDERING.
- 5 PLUMBING CONTRACTOR SHALL DIRECT FIXTURE SUPPLIER TO PROVIDE POLISHED CHROME FINISH WHERE INDICATED. MANUFACTURER'S PART NUMBER MAY NOT MATCH THAT OPTION.
- 6 THIS IS A CUSTOM FIXTURE. REFER TO ARCHITECTURAL AND INTERIORS DESIGN FOR ADDITIONAL INFORMATION AND CONSTRUCTION DETAILS.
- 7 REFER TO SECTION 06 61 13 AND TUB AND SHOWER SURROUND PRODUCT MANUAL FOR TUB SURROUNDS.
- 8 PROVIDE AND INSTALL ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT WITH SUPPLY INLETS, SUPPLY 1/4 TURN QUICK STOPS, SUPPLY RISERS, WASTE TRAPS AND TRAP ARMS.
USE APPROVED MANUFACTURER'S AS SPECIFIED.
- 9 PROVIDE AND INSTALL A WALL MOUNTED THERMOSTATIC MIXING VALVE BELOW FIXTURE. USE "GUARDIAN MODEL G3600 FACTORY SET AT 85° F. DELIVERY TEMPERATURE WITH 1/2" HW & CW INLETS AND 1/2" TW OUTLET OR AN APPROVED EQUAL.

SHEET NO.

FINAL FOR CONSTRUCTION - 05/18/15

EXPANSION TANK SCHEDULE									
MARK	MANUFACTURER	MODEL	ACCEPTANCE VOLUME (GAL)	DIMENSIONS		OPER PRESS (PSI)			REMARKS
				DIA	LENGTH				
ET-1	BELL & GOSSETT	PTA-452	137	30	91	-	-		
ET-2	BELL & GOSSETT	PTA-80V	34	24	40	-	-		

WATER SOFTENER AND BRINE TANK SCHEDULE											
MARK	MFGR	MODEL	GRAINS/POUNDS CAP.		FLOW RATE GPM		BACKWASH FLOWRATE GPM	RESIN QUANTITY FT ³	SALT STORAGE LBS	MAX PSI DROP	REMARKS
			MIN.	MAX.	PEAK	CONT.					
WS-1	CUSTOM CARE	C44-600-25-TRIPLEX	400,000	600,000	190	140	30	20	1200	25	① ② ③ ④ ⑤

- NOTES:
- ① TRIPLE ALTERNATING WATER SOFTENER SYSTEM INCLUDES (3) FIBERGLASS RESIN TANKS (NON-CODE 150 PSI), (3) FLECK 2" 2900 TOP MOUNT CONTROL VALVES WITH NXT TIMERS (1) 2" REMOTE METER, (12) CUBIC FEET SOFTENING RESIN, (4) PER VESSEL, SUPPORT GRAVEL AND (1) BRINE TANK ASSEMBLY.
- ② REQUIRES SINGLE POINT 120 VAC, 1-PH, 60 HZ ELECTRICAL CONNECTION.
- ③ PROVIDE FACTORY SKID MOUNTED, PREPPED AND PREWIRED SYSTEM (6" INLET/OUTLET SERVICE HEADERS) SCHEDULE 80 PVC INTERCONNECTING PIPING.
- ④ TRIPLE ALTERNATING FLOW CONFIGURATION.
- ⑤ MINIMUM FLOW TO AVOID CHANNELING OF SYSTEM IS 3 GPM, SUSTAINED FLOW BELOW 3 GPM WILL CHANNEL THE RESIN BED.

WATER STORAGE TANK SCHEDULE								
MARK	MANUFACTURER	MODEL	STORAGE CAPACITY (GAL)	DIMENSIONS		OPER PRESS (PSI)	OPER WEIGHT (LBS)	REMARKS
				DIA	HEIGHT			
ST-1 - 6	LOCHINVAR	RGA0752	752	52	104	150	8300	
ST-7 & 8	LOCHINVAR	RGA0650	650	52	92	150	7000	

CIRCULATING PUMP SCHEDULE										
MARK	SERVES	MANUFACTURER	MODEL	GPM	TOTAL HEAD (FT)	RPM	MOTOR HP	V/PH	OPER WEIGHT (LBS)	REMARKS
RP-1A & 1B	160°F HW	EBARA	EVMU3-5	6	180	3500	1-1/2	480/3	45	STAINLESS STEEL CONSTRUCTION - BASEMENT THRU 2ND FLOOR AND BACK UP TO ROOF, NON-COINCIDENTAL OPERATION
RP-2A & 2B	124°F HW	EBARA	EVMU3-9	10	300	3500	3	480/3	45	STAINLESS STEEL CONSTRUCTION - BASEMENT THRU 4TH FLOOR AND BACK UP TO ROOF, NON-COINCIDENTAL OPERATION
RP-3A & 3B	124°F HW	EBARA	EVMU3-8	10	260	3500	2	480/3	45	STAINLESS STEEL CONSTRUCTION - 5TH FLOOR THRU 9TH FLOOR AND BACK UP TO ROOF, NON-COINCIDENTAL OPERATION
RP-4A & 4B	124°F HW	EBARA	EVMU3-7	10	220	3500	2	480/3	45	STAINLESS STEEL CONSTRUCTION - 10TH FLOOR THRU 14TH FLOOR AND BACK UP TO ROOF, NON-COINCIDENTAL OPERATION
RP-5A & 5B	124°F HW	EBARA	EVMU3-6	10	180	3500	1-1/2	480/3	45	STAINLESS STEEL CONSTRUCTION - 15TH FLOOR THRU 19TH FLOOR AND BACK UP TO ROOF, NON-COINCIDENTAL OPERATION
RP-6A & 6B	140°F HW	PATTERSON	5741-97	100	18	-	1	480/3	91	LEAD-FREE BRONZE CONSTRUCTION, NON-COINCIDENTAL OPERATION
RP-7A & 7B	165°F HW	PATTERSON	5746-97	55	20	-	3/4	480/3	84	LEAD-FREE BRONZE CONSTRUCTION, NON-COINCIDENTAL OPERATION

- NOTES:
- ① CIRCULATING PUMP MUST ADHERE TO NSF/ANSI 61 REQUIREMENTS.

DOMESTIC WATER BOOSTER PUMP SCHEDULE																
MARK	SERVES	MANUFACTURER	MODEL	INLET PRESS (PSI)		DISCHARGE PRESSURE (PSI)	FLOW (GPM)	HEADER SIZE	# OF PUMPS	PUMP TYPE	FLA	MCA	MOCP	V/PH	OPER WEIGHT (LBS)	REMARKS
				MIN	MAX											
BP-1	ROOF	QUANTUMFLO	GV3-375-130-460/3-NSF	50	70	180	375	6"	3	VERTICAL	70.5	-	100	460/3	-	-
BP-2	5TH TO 9TH FLOORS	QUANTUMFLO	GV3-170-50-460/3-NSF	50	70	100	170	4"	3	VERTICAL	25.8	-	40	460/3	-	-
BP-3	10TH TO 19TH FLOORS	QUANTUMFLO	GV3-265-100-460/3-NSF	50	70	150	265	6"	3	VERTICAL	51.0	-	80	460/3	-	-

- NOTES:
- ① THE COMPLETE BOOSTER PUMP SKID SHALL ADHERE TO NSF/ANSI 61 REQUIREMENTS, THE HEADER PIPING SHALL BE 304SS AND THE VFD'S SHALL BE INSTALLED IN THE CONTROL CABINET.

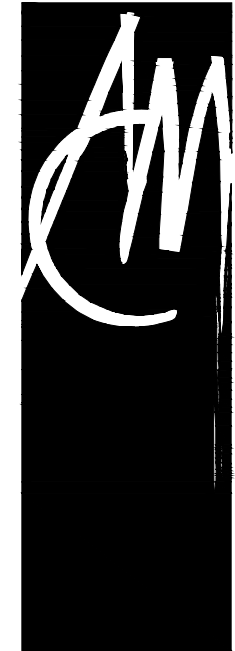
THERMOSTATIC MIXING VALVE SCHEDULE												
MARK	SERVES	MANUFACTURER	MODEL	COLD INLET SIZE	HOT INLET SIZE	TW OUTLET SIZE	MAX TW GPM	MIN OPER PRESS (PSI)	TW TEMP SETPOINT (°F)	REMARKS		
MV-1	124°F HW	ARMSTRONG	DMC-80-80	4"	4"	4"	165	64	124	10 GPM MINIMUM FLOW, 5 PSI MAX ΔP		
MV-2	140°F HW	ARMSTRONG	RADA 320	3/4"	3/4"	1"	16	50	140			

DUPLEX SEWAGE EJECTOR SCHEDULE												
MARK	SERVES	MANUFACTURER	MODEL	TYPE	GPM	TOTAL HEAD (FT)	RPM	MOTOR HP (EACH)	V/PH	BASIN		REMARKS
										DIA	DEPTH	
SE-1	BASEMENT	EBARA	DLFU-100LMFU83.7	SUBMERSIBLE	200	31	1,730	2 @ 5 HP	480/3	60"	23'-6"	PROVIDE NEMA 4X DUPLEX JUNCTION BOX, FIBERGLASS BASIN, STEEL BASIN COVER & FRAME, GASKETS, DUPLEX ALTERNATING CONTROLS, ALARMS, REMOTE CONTACTS, ETC. ① ②

- NOTES:
- ① PROVIDE REMOVABLE SYSTEM WITH DUPLEX SUBMERSIBLE PUMPS, DOUBLE SEAL TANDEM MOTOR, ADVANCED LEVEL CONTROLLER AND BRONZE IMPELLER. PROVIDE FIBERGLASS BASIN 60" DIA. x 23'6" DEEP. QDC REMOVAL SYSTEM, DUPLEX DEAD FRONT CONTROL PANEL, INTRINSICALLY SAFE CONTROLS, 4" PIPE DISCHARGE, INDEPENDENT 6" VENT RUN UP THRU ROOF, MOUNTING HARDWARE FOR PERIMETER OF COVER, PUMP OPENING COVER, PUMP LIFTING CHAIN, PUMP WATER ALARM CONTROLS. EACH PUMP DISCHARGE SHALL HAVE CAST IRON BALL CHECK VALVE, UNION AND GATE VALVE.
- ② PROVIDE QUANTUMFLO NEMA-4 DUPLEX CONTROLLER WITH COLOR TOUCH SCREEN, PLC CONTROL, ALARM HORN & LIGHT, MODBUS OUTPUTS FOR MONITORING, AND ULTRASONIC LEVEL INDICATOR. PROVIDE EXPLOSION PROOF PUMPS WITH K-SERIES SINGLE-VANE, SEMI-OPEN IMPELLER WITH BACK PUMP OUT VANES. PROVIDE PUMPS WITH QDC QUICK DISCHARGE REMOVAL SYSTEM.

SEQUENCE OF OPERATION									
SEWAGE EJECTOR CONTROL SYSTEM SHALL UTILIZE A STAINLESS STEEL SUBMERSIBLE LIQUID TRANSDUCER. UPON A RISE OF FLUID LEVEL IN THE EJECTOR PIT, THE LEAD PUMP SHALL ENGAGE. IF THE FLUID LEVEL CONTINUES TO RISE, THE LAG PUMP SHALL ENGAGE UNTIL THE LIQUID LEVEL DROPS TO NORMAL. SHOULD THE FLUID RISE, AN AUDIOVISUAL HIGH WATER ALARM SYSTEM SHALL ACTIVATE AND REMAIN ON UNTIL THE FLUID LEVEL DROPS. CONTROLLER SHALL AUTOMATICALLY CYCLE LEAD BASED ON RUN TIME.									

SUMP PUMP SCHEDULE											
MARK	SERVES	MANUFACTURER	MODEL	TYPE	GPM	TOTAL HEAD (FT)	RPM	MOTOR HP	V/PH	REMARKS	
SP-1, 2 & 3	ELEVATORS	WEIL	1451	SUBMERSIBLE	50	38	1750	1	120/1	PROVIDE ONE FOR EACH ELEVATOR IN PIT WITH GRATE. PROVIDE TETHERED LEVEL CONTROL.	
SP-4	AREA WELL	WEIL	1451	SUBMERSIBLE	50	38	1750	1	120/1	PROVIDE ONE FOR EACH ELEVATOR IN PIT WITH GRATE. PROVIDE TETHERED LEVEL CONTROL.	



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SHEET TITLE:
**PLUMBING
SCHEDULES**

SHEET NO.:

P8.2