

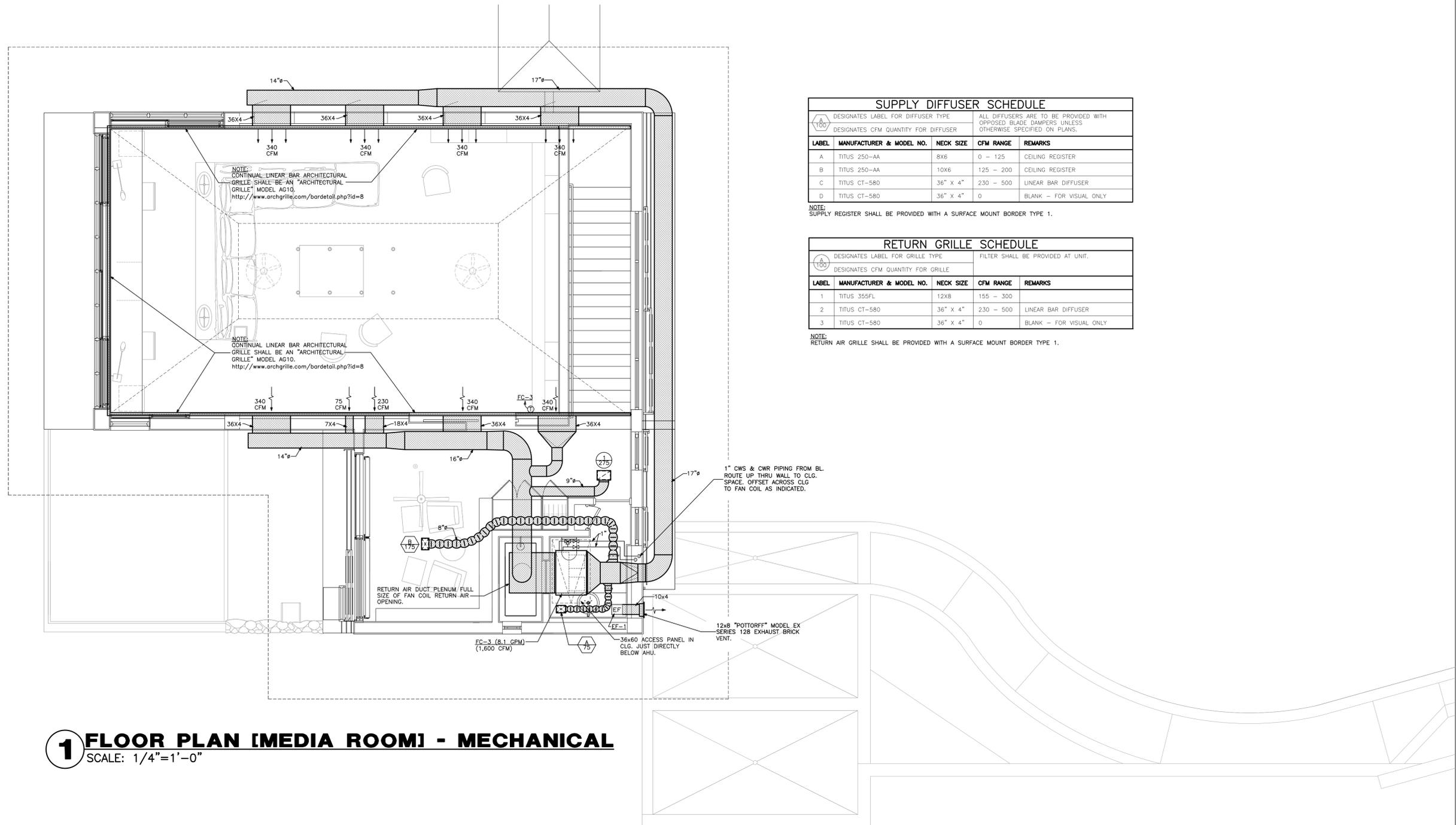
1 FLOOR PLAN [MASTER SUITE] - MECHANICAL
 SCALE: 1/4"=1'-0"

SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS 250-AA	8x6	0 - 125	CEILING REGISTER
B	TITUS 250-AA	10x6	125 - 200	CEILING REGISTER
C	TITUS 250-AA	12x10	205 - 300	CEILING REGISTER
D	TITUS 250-AA	14x10	305 - 450	CEILING REGISTER
E	TITUS 300RL	14x6	205 - 300	SIDEWALL REGISTER

NOTE:
 SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	12x12	0 - 400	
2	TITUS 355FL	30x10	280 - 400	SIDEWALL GRILLE
2	TITUS 355FL	8x6	0 - 225	SIDEWALL GRILLE

NOTE:
 RETURN AIR GRILLE SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.



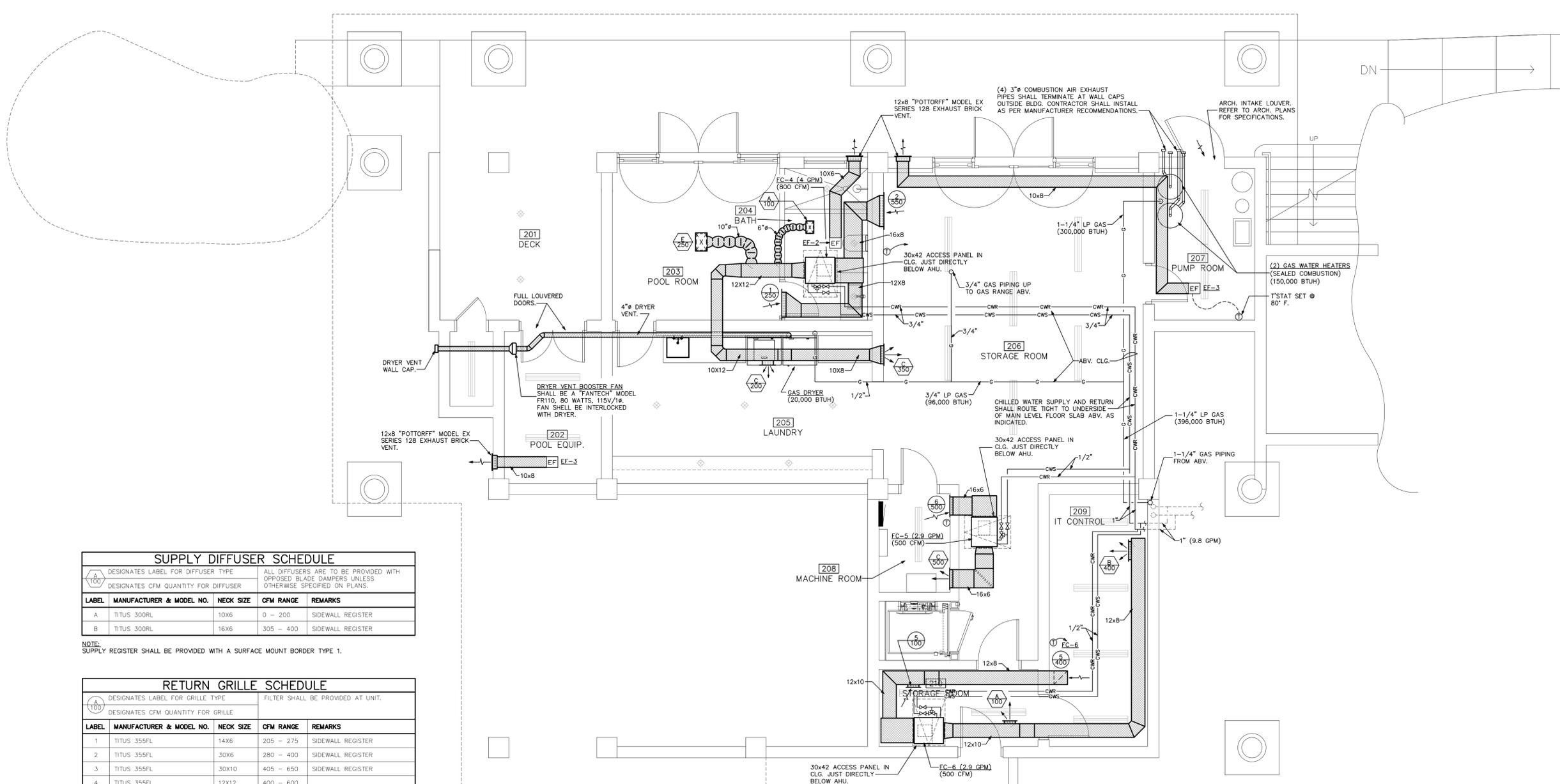
SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS 250-AA	8X6	0 - 125	CEILING REGISTER
B	TITUS 250-AA	10X6	125 - 200	CEILING REGISTER
C	TITUS CT-580	36" X 4"	230 - 500	LINEAR BAR DIFFUSER
D	TITUS CT-580	36" X 4"	0	BLANK - FOR VISUAL ONLY

NOTE:
SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	12X8	155 - 300	
2	TITUS CT-580	36" X 4"	230 - 500	LINEAR BAR DIFFUSER
3	TITUS CT-580	36" X 4"	0	BLANK - FOR VISUAL ONLY

NOTE:
RETURN AIR GRILLE SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

1 FLOOR PLAN [MEDIA ROOM] - MECHANICAL
SCALE: 1/4"=1'-0"



SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS 300RL	10x6	0 - 200	SIDEWALL REGISTER
B	TITUS 300RL	16x6	305 - 400	SIDEWALL REGISTER

NOTE:
SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	14x6	205 - 275	SIDEWALL REGISTER
2	TITUS 355FL	30x6	280 - 400	SIDEWALL REGISTER
3	TITUS 355FL	30x10	405 - 650	SIDEWALL REGISTER
4	TITUS 355FL	12x12	400 - 600	SIDEWALL REGISTER
5	TITUS 355FL	8x6	0 - 150	SIDEWALL REGISTER

NOTE:
RETURN AIR GRILLE SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

1 FLOOR PLAN [SERVICE LEVEL] - MECHANICAL
SCALE: 1/4"=1'-0"

SPECIFIC MECHANICAL NOTES

- 1 RETURN AIR DUCT IN THIS AREA TO WRAP AROUND TV STRUCTURE.
- 2 RETURN AIR DUCT SHALL ROUTE UNDER BEAM AT THIS LOCATION.
- 3 EXTERIOR LOUVERS SHALL BE PAINTED TO MATCH BLDG. COORDINATE FINAL COLOR WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 4 LINEAR DIFFUSER SHALL BE SURFACE MOUNTED TO TEAK WOOD CLG. DIFFUSER SHALL BE PAINTED TO MATCH CEILING COLOR. COORDINATE FINAL COLOR WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 5 SIDEWALL LINEAR DIFFUSER. COORDINATE WITH ARCHITECT WHETHER THIS DIFFUSER SHALL BE PAINTED OR NOT.
- 6 R/A DUCT PLENUM FULL SIZE OF 48X24 GRILLE SHALL BE INSTALLED BEHIND GRILLE. DUCT PLENUM SHALL BE 16" DEEP.
- 7 1 1/2" 16 GA. STAINLESS STEEL CHIMNEY STACK AS MANUFACTURED BY "ABBAKA", ONE SEAMLESS PIECE FROM TOP OF HOOD TO 6" ABOVE CEILING. SEE DETAIL ON SHEET M-4.1. 8" 16 GAUGE GALVANIZED STEEL EXHAUST DUCT SHALL ROUTE UP THRU CHIMNEY STACK TO CLG. SPACE AND OFFSET AS INDICATED. REFER TO SECTIONS ON SHEET M-4.1.
- 8 ISLAND EXHAUST HOOD SHALL BE AS AN "ABBAKA" 1 STEP 45"x27" EMPIRE ISLAND MOUNTED HOOD MODEL EMI-4527-SS, HOOD LENGTH: 45", HOOD WIDTH: 27", HOOD DEPTH: 6", 600 CFM EXHAUST. HOOD PROVIDED WITH SEAMLESS 1 1/2" CHIMNEY STACK UP THRU CLG. SEE HOOD DETAIL ON SHEET M-4.1. HOOD FINISH SHALL BE STAIN. STAINLESS STEEL (BRUSHED METAL LOOK), HOOD ALSO PROVIDED WITH AN XL PROFESSIONAL STAINLESS STEEL LINER WITH COMMERCIAL BAFFLE FILTERS. ALL HOOD CONTROLS MOUNTED ON BOTTOM OF HOOD.
- 9 IN-LINE EXHAUST DUCT MUFFLER FOR 8" EXH. DUCT SHALL BE AN "ABBAKA" MODEL LD 8.
- 10 8" KITCHEN HOOD EXHAUST AND TOILET EXHAUST DUCTS UP THRU CHASE ABOVE.

SUPPLY DIFFUSER SCHEDULE

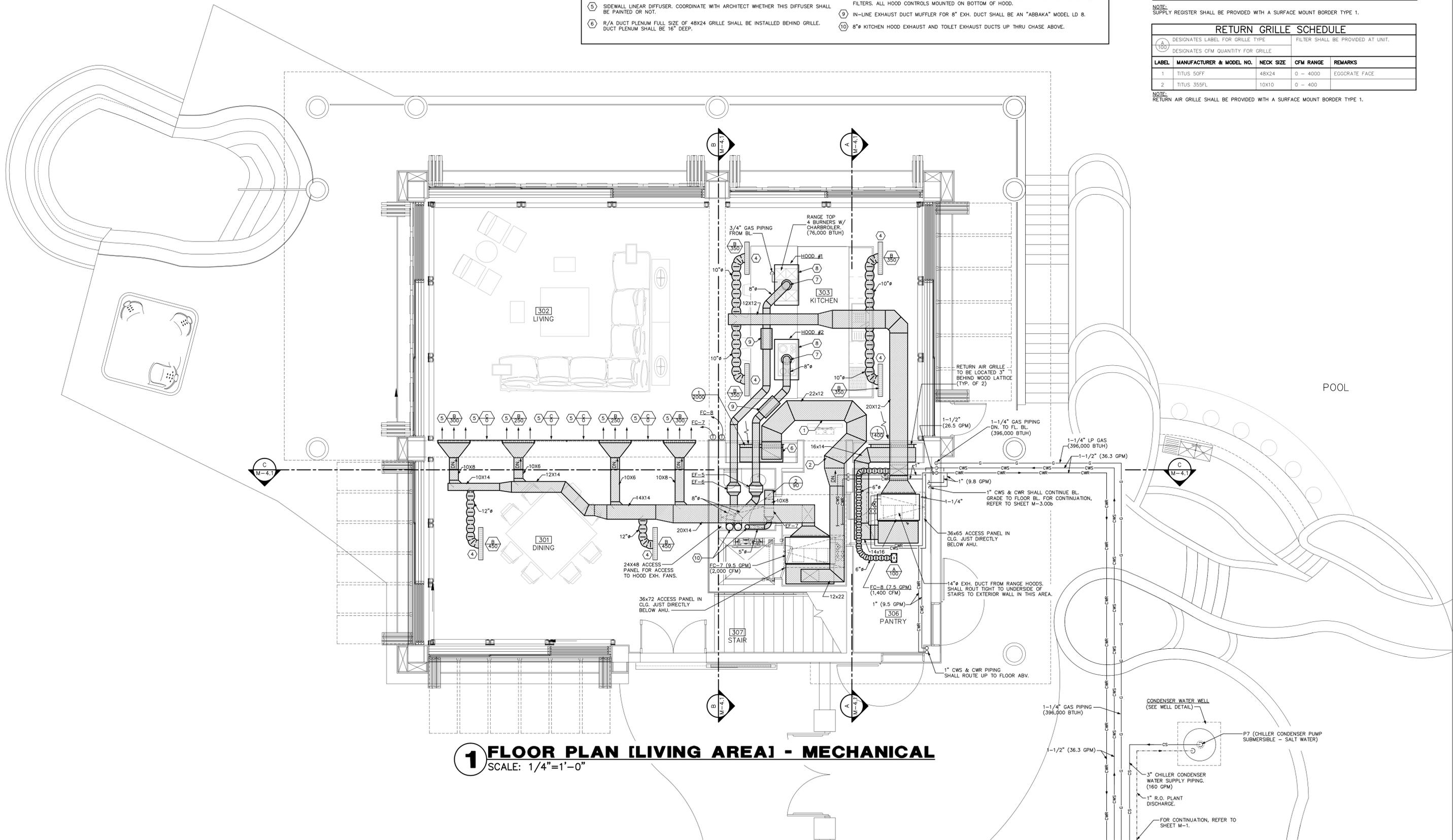
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS 250-AA	8X6	0 - 125	CEILING REGISTER
B	TITUS CT-580	36" x 4"	230 - 500	LINEAR BAR DIFFUSER
C	TITUS CT-580	36" x 4"	0	BLANK - FOR VISUAL ONLY

NOTE: SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

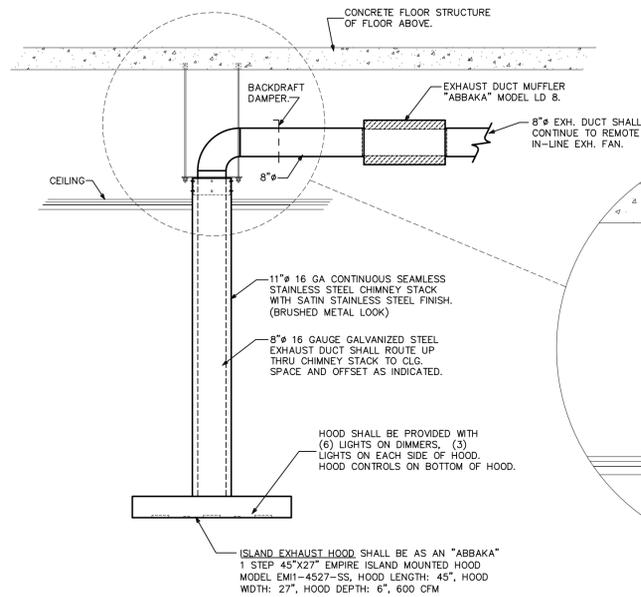
RETURN GRILLE SCHEDULE

LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 50FF	48X24	0 - 4000	EGGCRATE FACE
2	TITUS 355FL	10X10	0 - 400	

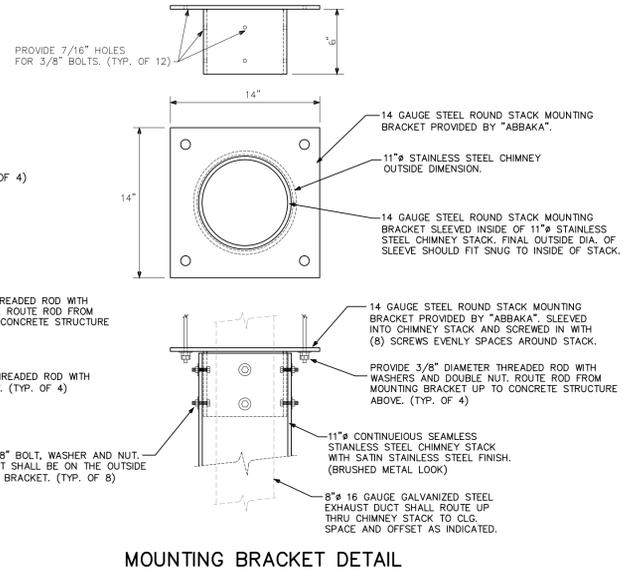
NOTE: RETURN AIR GRILLE SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.



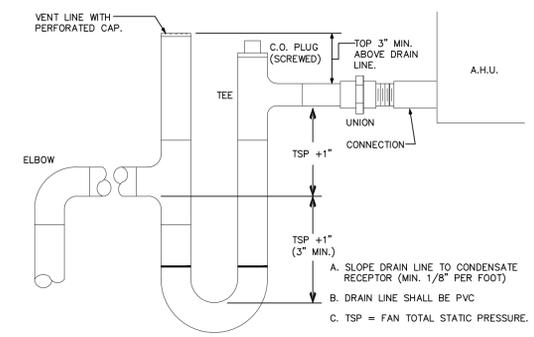
1 FLOOR PLAN [LIVING AREA] - MECHANICAL
SCALE: 1/4"=1'-0"



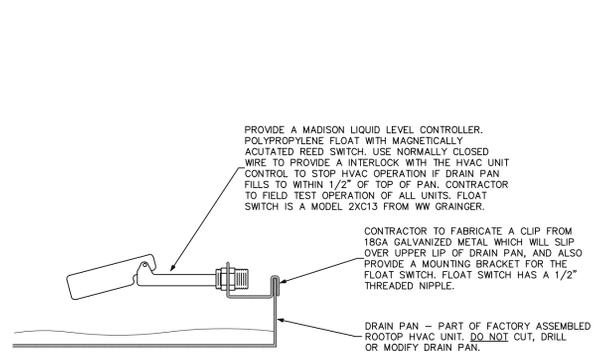
1 EXHAUST HOOD MOUNTING DETAIL
NOT TO SCALE



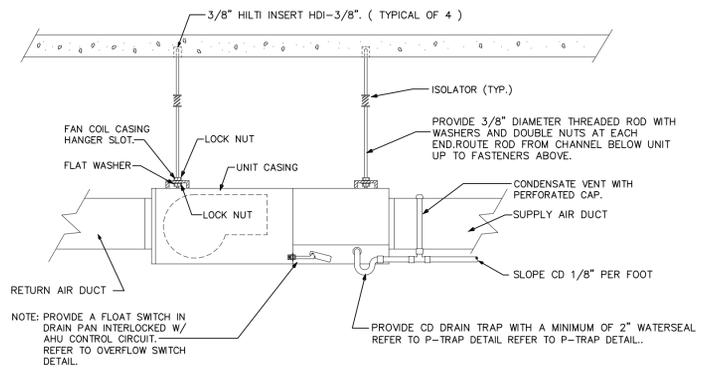
MOUNTING BRACKET DETAIL



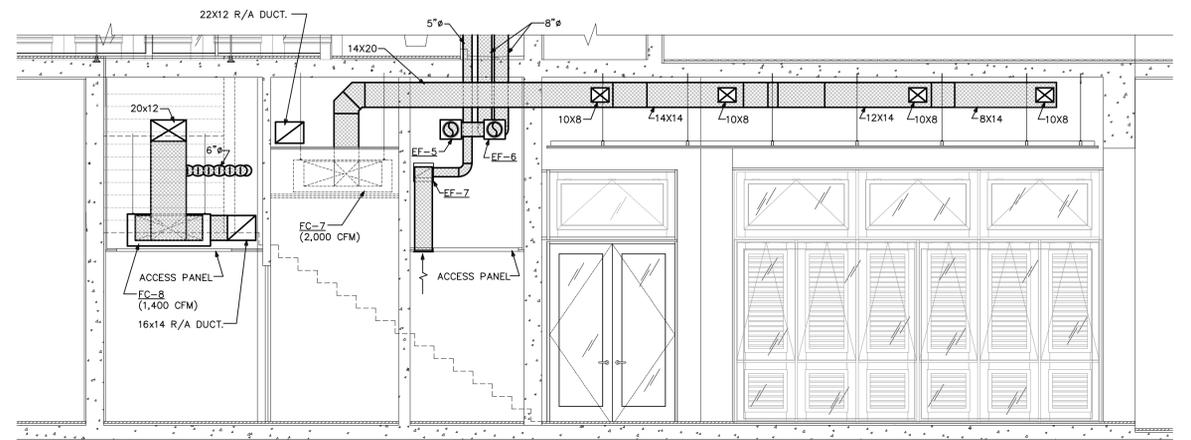
2 CONDENSATE P-TRAP DETAIL
NOT TO SCALE



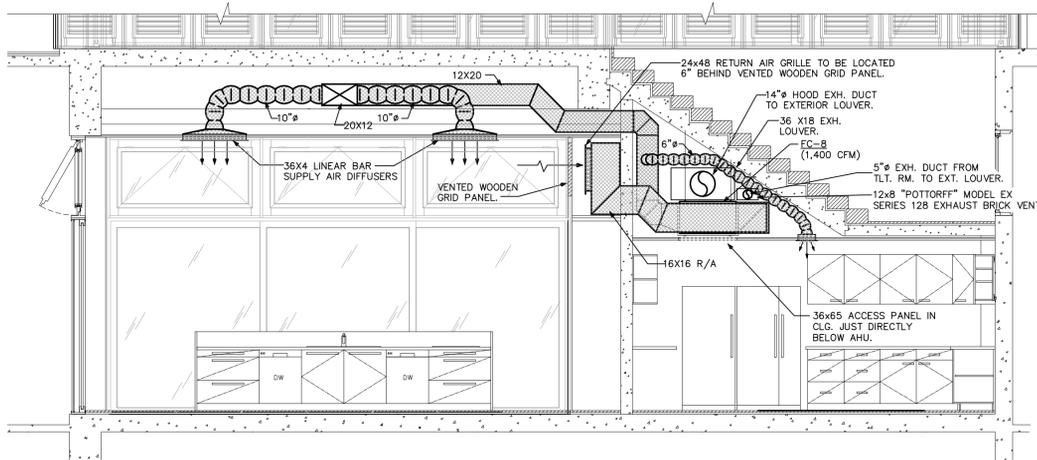
3 OVERFLOW SWITCH DETAIL
NO SCALE



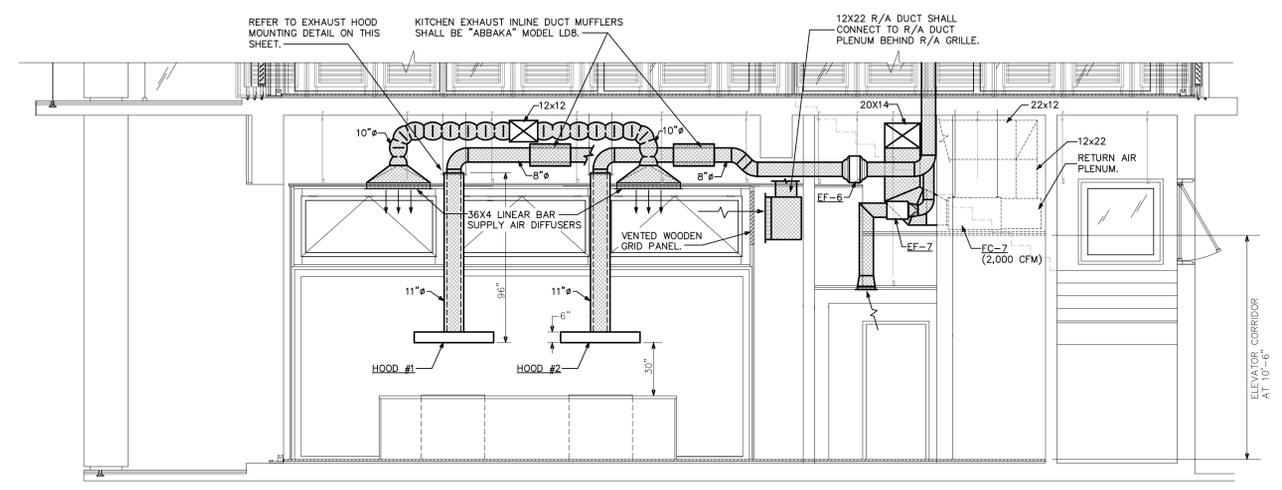
4 AHU MOUNTING DETAIL
NO SCALE



C SECTION 'C' - MECHANICAL
SCALE: 1/4"=1'-0"



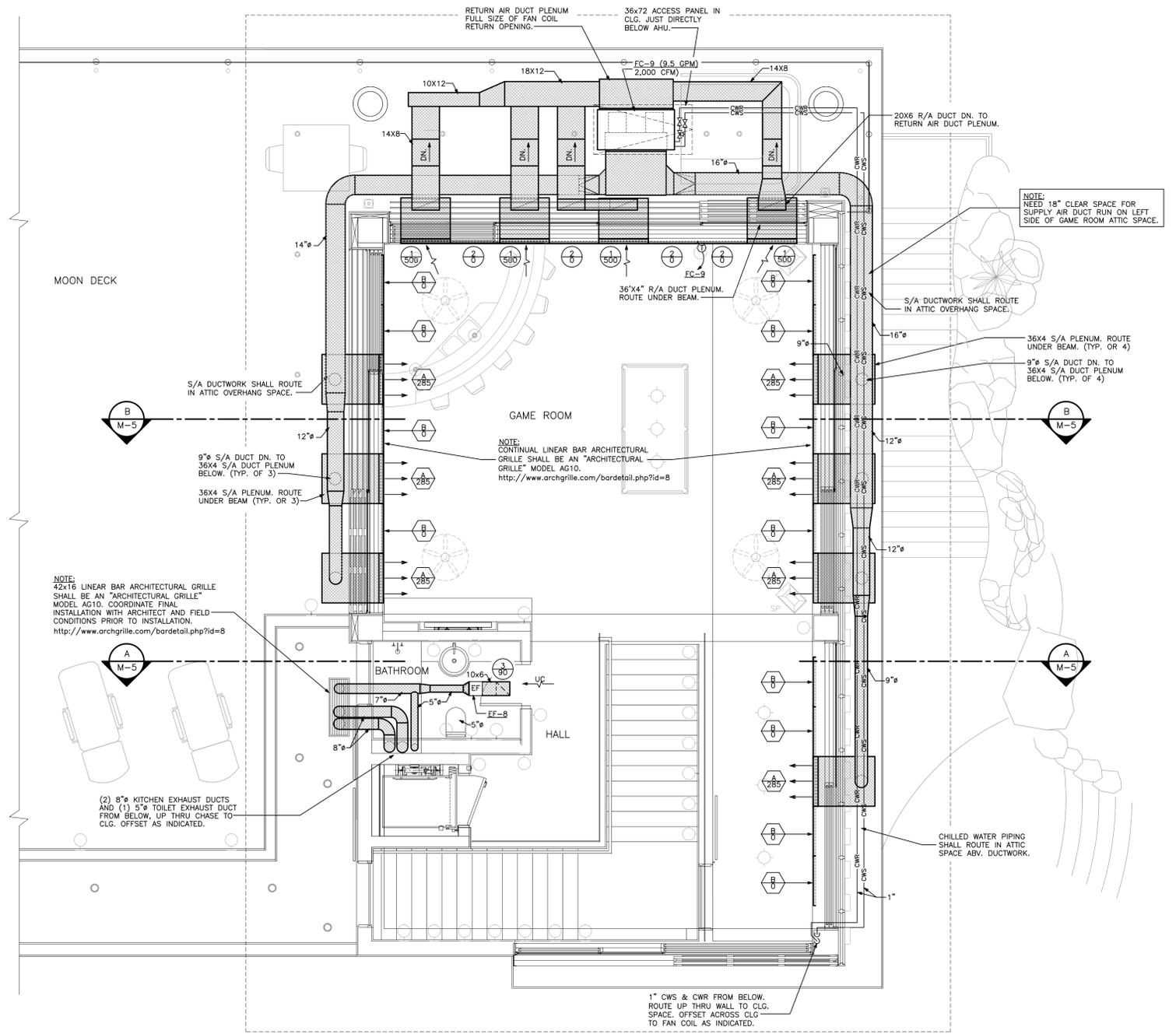
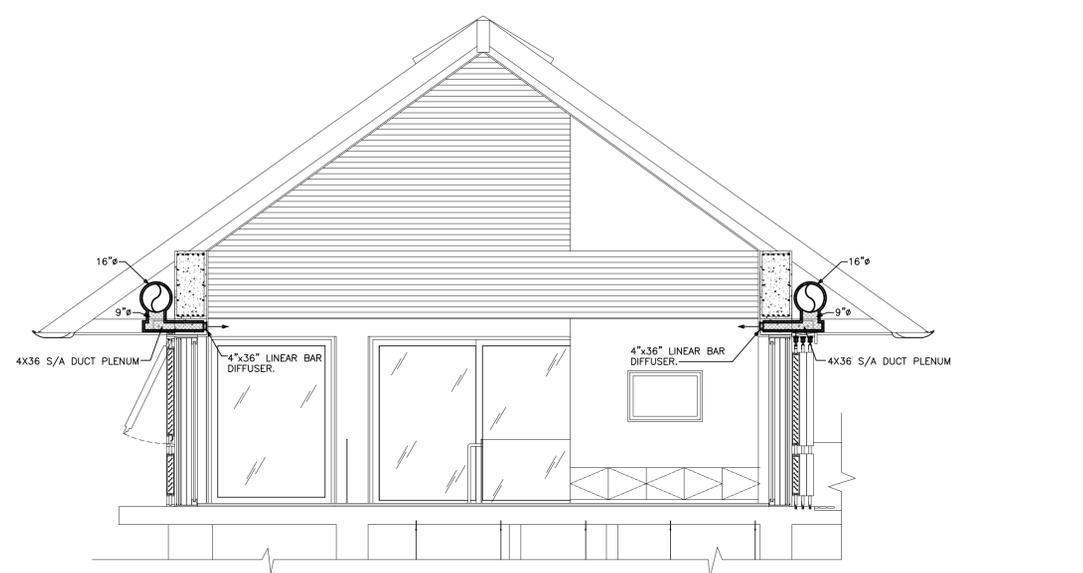
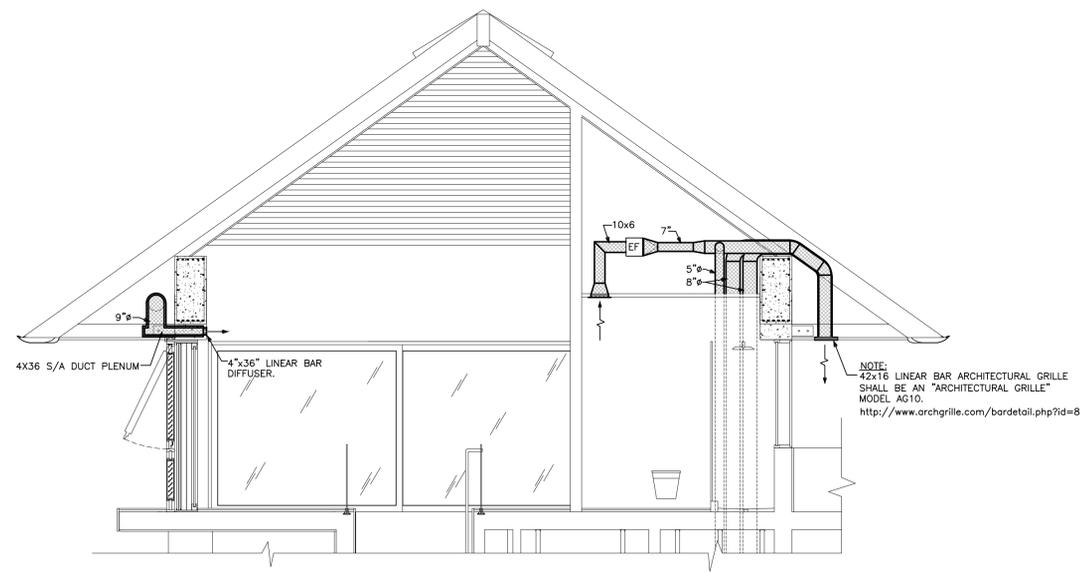
A SECTION 'A' - MECHANICAL
SCALE: 1/4"=1'-0"



B SECTION 'B' - MECHANICAL
SCALE: 1/4"=1'-0"

SUPPLY DIFFUSER SCHEDULE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS CT-580	34" X 4"	0 - 400	LINEAR BAR DIFFUSER
B	TITUS CT-580	36" X 4"	0	BLANK - FOR VISUAL ONLY

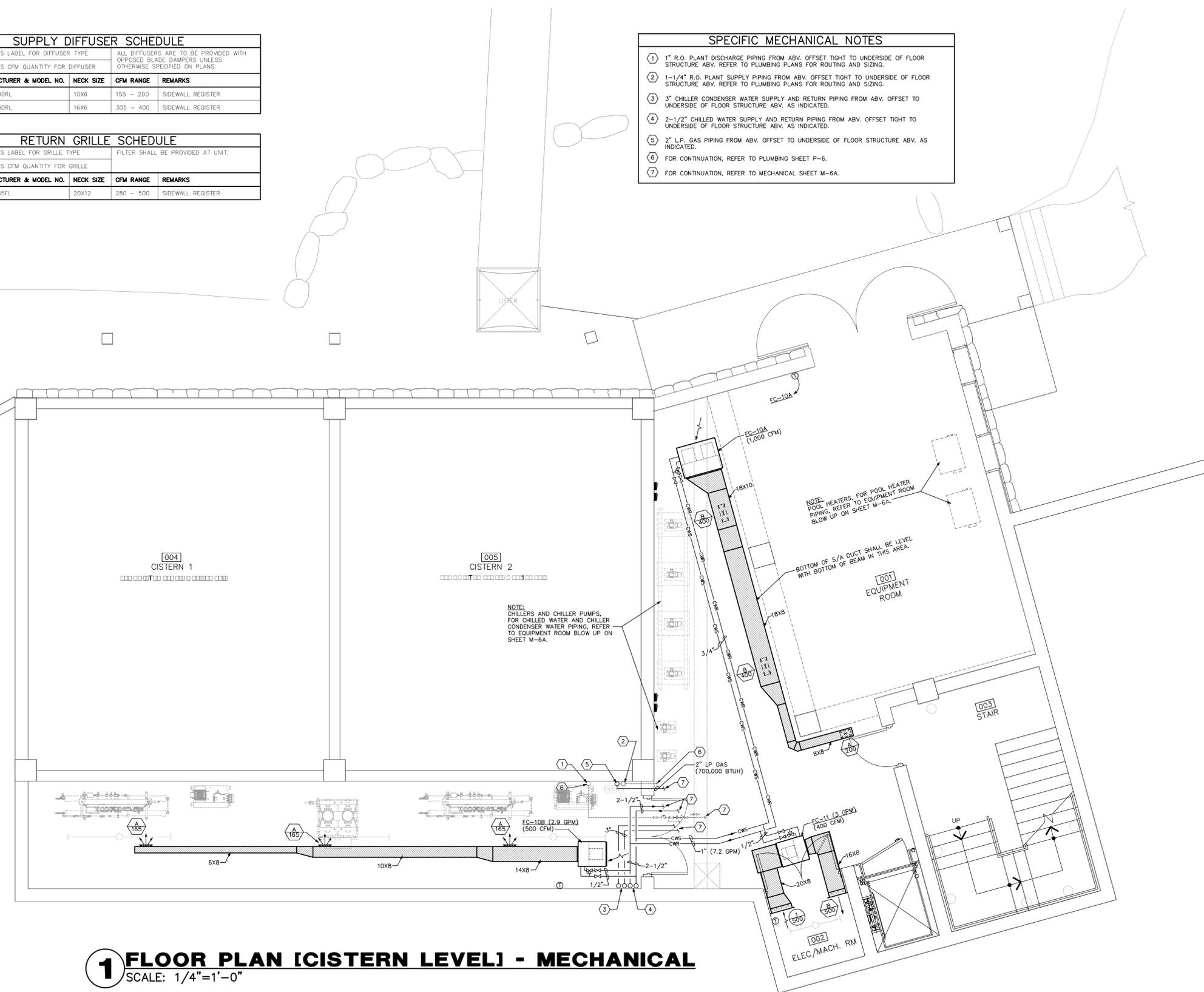
RETURN GRILLE SCHEDULE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS CT-580	36" X 6"	0 - 600	LINEAR BAR GRILLE
2	TITUS CT-580	36" X 6"	0	BLANK - FOR VISUAL ONLY
3	TITUS 355FL	10X10	0 - 400	



SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS 300RL	10X6	155 - 200	SIDEWALL REGISTER
B	TITUS 300RL	16X6	305 - 400	SIDEWALL REGISTER

RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	20X12	280 - 500	SIDEWALL REGISTER

- SPECIFIC MECHANICAL NOTES**
- 1" R.O. PLANT DISCHARGE PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. REFER TO PLUMBING PLANS FOR ROUTING AND SIZING.
 - 1-1/4" R.O. PLANT SUPPLY PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. REFER TO PLUMBING PLANS FOR ROUTING AND SIZING.
 - 3" CHILLER CONDENSER WATER SUPPLY AND RETURN PIPING FROM ABV. OFFSET TO UNDERSIDE OF FLOOR STRUCTURE ABV. AS INDICATED.
 - 2-1/2" CHILLED WATER SUPPLY AND RETURN PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. AS INDICATED.
 - 2" L.P. GAS PIPING FROM ABV. OFFSET TO UNDERSIDE OF FLOOR STRUCTURE ABV. AS INDICATED.
 - FOR CONTINUATION, REFER TO PLUMBING SHEET P-6.
 - FOR CONTINUATION, REFER TO MECHANICAL SHEET M-6A.



1 FLOOR PLAN [CISTERNS LEVEL] - MECHANICAL
 SCALE: 1/4" = 1'-0"

CHILLER ROOM PIPING IDENTIFICATION SCHEDULE		
A. IDENTIFY PIPING WITH MARKERS AND DIRECTIONAL ARROWS AS FOLLOWS:		
PIPE CONTENTS	PIPE COLOR	ABBREVIATION
DOMESTIC COLD WATER	LIGHT GREEN	CW
CHILLED WATER SUPPLY	DARK BLUE	CWS
CHILLED WATER RETURN	LIGHT BLUE	CWR
CONDENSER WATER SUPPLY	BLUE	CS
CONDENSER WATER RETURN	BLUE	CR

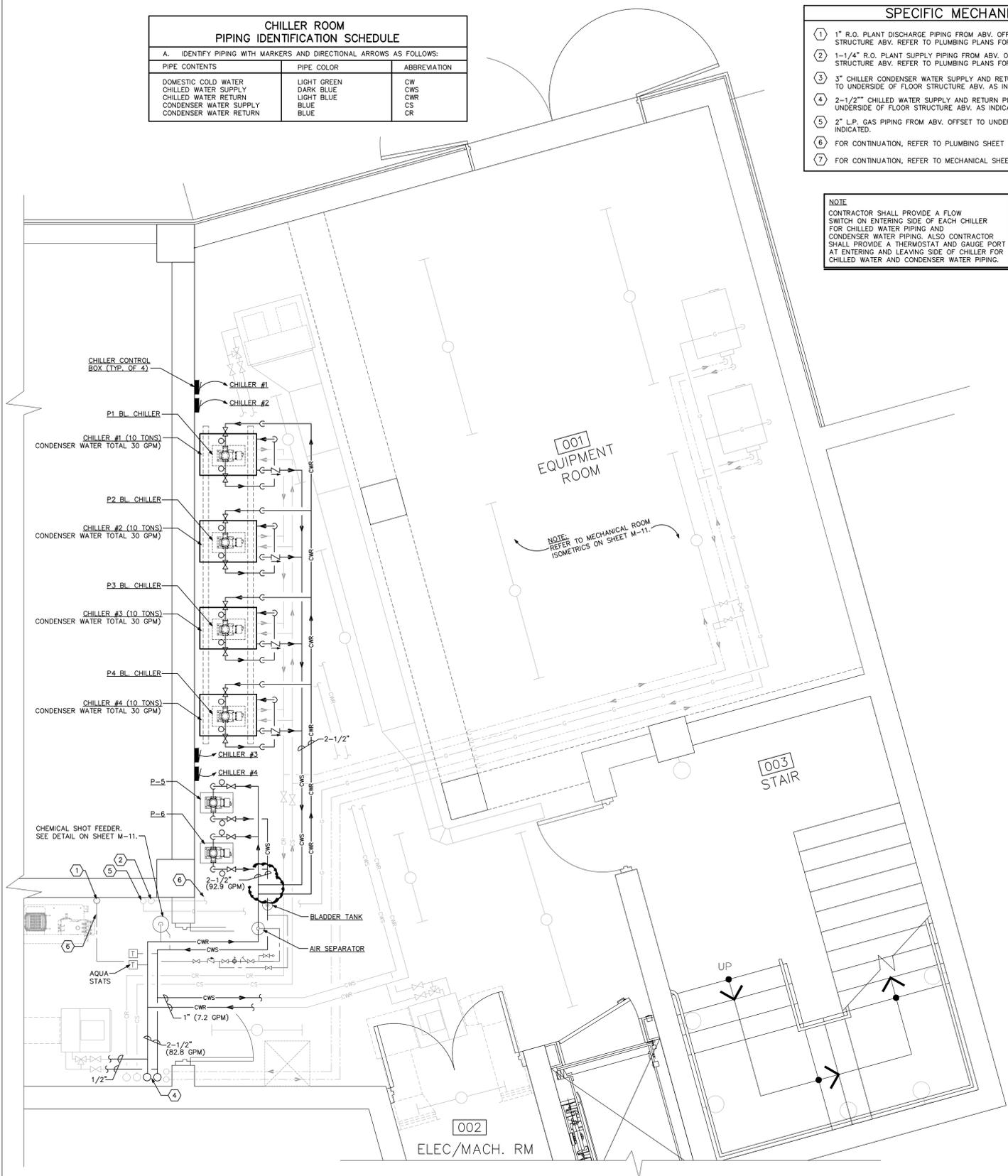
SPECIFIC MECHANICAL NOTES

- 1 1" R.O. PLANT DISCHARGE PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. REFER TO PLUMBING PLANS FOR ROUTING AND SIZING.
- 2 1-1/4" R.O. PLANT SUPPLY PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. REFER TO PLUMBING PLANS FOR ROUTING AND SIZING.
- 3 3" CHILLER CONDENSER WATER SUPPLY AND RETURN PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. AS INDICATED.
- 4 2-1/2" CHILLED WATER SUPPLY AND RETURN PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. AS INDICATED.
- 5 2" L.P. GAS PIPING FROM ABV. OFFSET TO UNDERSIDE OF FLOOR STRUCTURE ABV. AS INDICATED.
- 6 FOR CONTINUATION, REFER TO PLUMBING SHEET P-6.
- 7 FOR CONTINUATION, REFER TO MECHANICAL SHEET M-6.

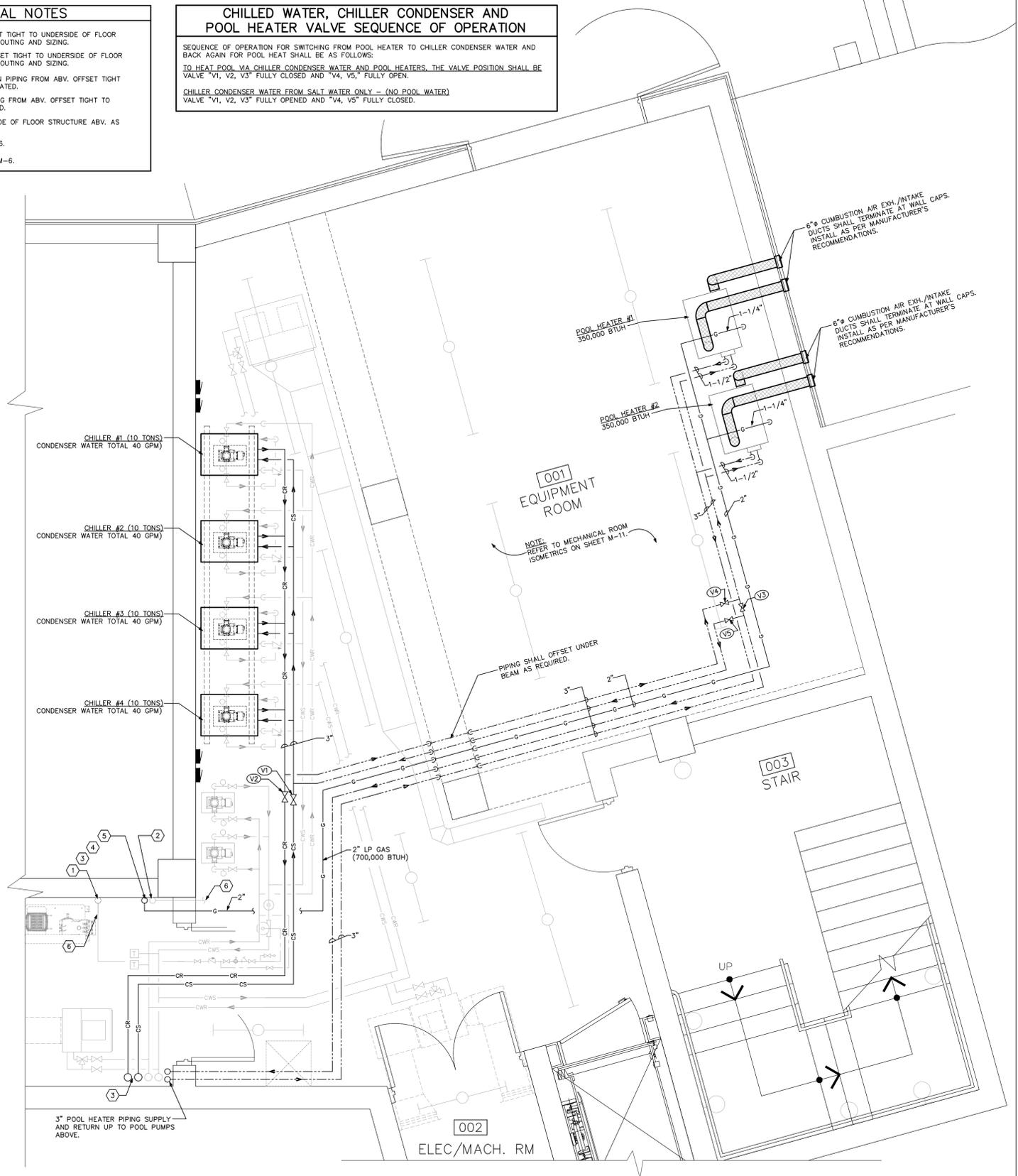
CHILLED WATER, CHILLER CONDENSER AND POOL HEATER VALVE SEQUENCE OF OPERATION

SEQUENCE OF OPERATION FOR SWITCHING FROM POOL HEATER TO CHILLER CONDENSER WATER AND BACK AGAIN FOR POOL HEAT SHALL BE AS FOLLOWS:
 TO HEAT POOL VIA CHILLER CONDENSER WATER AND POOL HEATERS, THE VALVE POSITION SHALL BE VALVE "V1, V2, V3" FULLY CLOSED AND "V4, V5," FULLY OPEN.
 CHILLER CONDENSER WATER FROM SALT WATER ONLY - (NO POOL WATER)
 VALVE "V1, V2, V3" FULLY OPENED AND "V4, V5" FULLY CLOSED.

NOTE
 CONTRACTOR SHALL PROVIDE A FLOW SWITCH ON ENTERING SIDE OF EACH CHILLER FOR CHILLED WATER PIPING AND CONDENSER WATER PIPING. ALSO CONTRACTOR SHALL PROVIDE A THERMOSTAT AND GAUGE PORT AT ENTERING AND LEAVING SIDE OF CHILLER FOR CHILLED WATER AND CONDENSER WATER PIPING.



(CHILLED WATER PIPING)



(CONDENSER WATER, POOL HEATING WATER AND GAS PIPING)

1 PART. FLOOR PLAN - MECHANICAL RM. BLOW UP
 SCALE: 3/8"=1'-0"

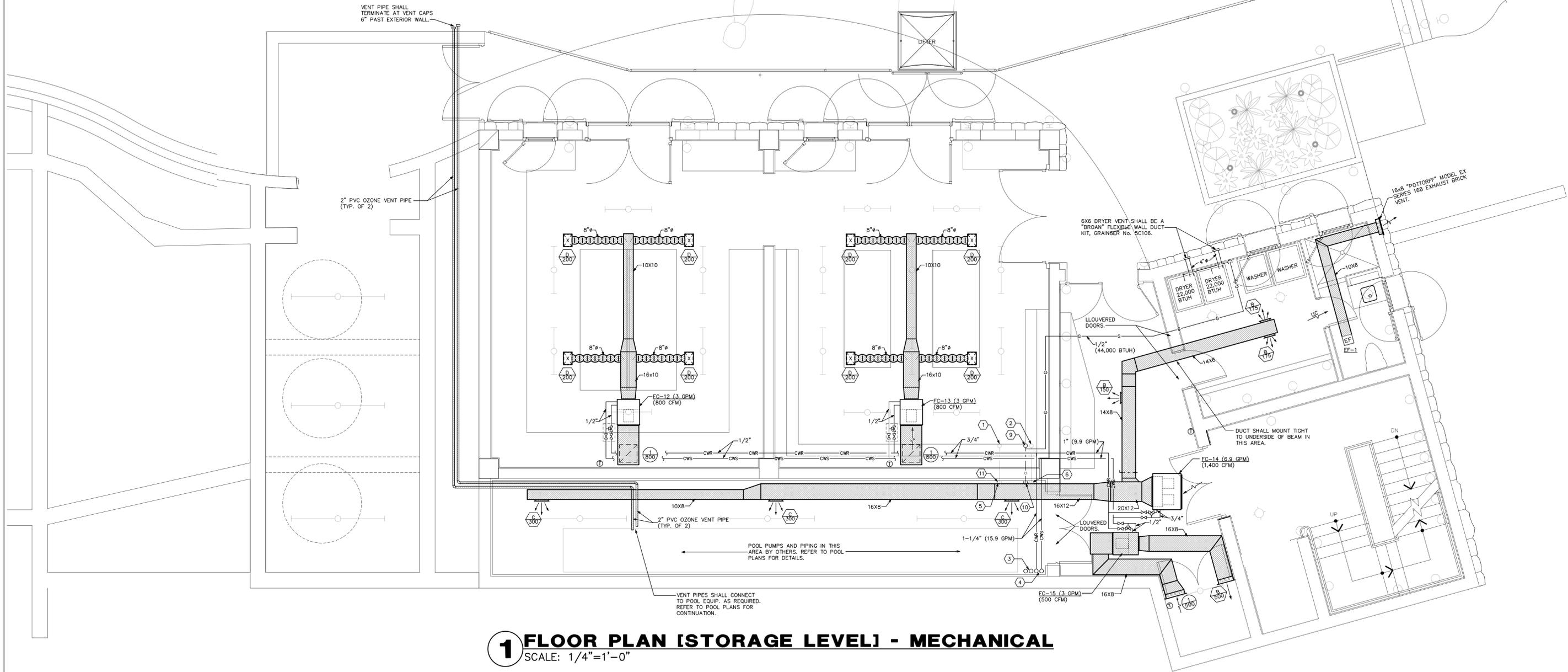
SUPPLY DIFFUSER SCHEDULE				
A 100	DESIGNATES LABEL FOR DIFFUSER TYPE	ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
	DESIGNATES CFM QUANTITY FOR DIFFUSER			
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS 300RL	8X6	0 - 150	SIDEWALL REGISTER
B	TITUS 300RL	10X6	155 - 200	SIDEWALL REGISTER
C	TITUS 300RL	14X6	205 - 300	SIDEWALL REGISTER
D	TITUS 250-AA	12X10	0 - 250	CEILING REGISTER

NOTE:
supply AIR REGISTER "D" SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

RETURN GRILLE SCHEDULE				
A 100	DESIGNATES LABEL FOR GRILLE TYPE	FILTER SHALL BE PROVIDED AT UNIT.		
	DESIGNATES CFM QUANTITY FOR GRILLE			
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	18X18	0 - 1000	

NOTE:
RETURN AIR GRILLE SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

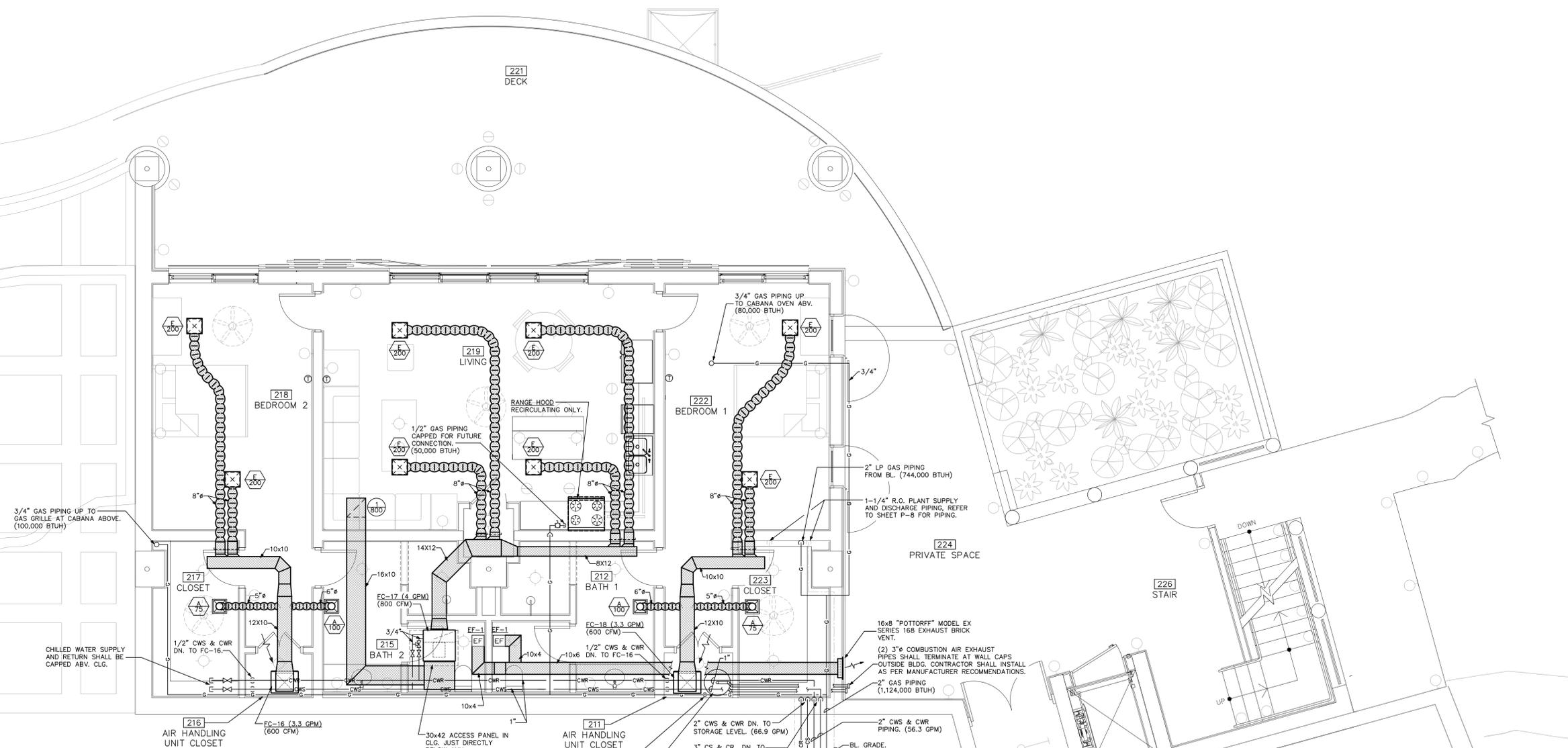
- SPECIFIC MECHANICAL NOTES**
- ① 1" R.O. PLANT DISCHARGE PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. REFER TO PLUMBING PLANS FOR ROUTING AND SIZING.
 - ② 1-1/4" R.O. PLANT SUPPLY PIPING FROM ABV. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. REFER TO PLUMBING PLANS FOR ROUTING AND SIZING.
 - ③ 3" CHILLER CONDENSER WATER SUPPLY AND RETURN PIPING FROM ABV. AND DN. TO FLOOR BELOW.
 - ④ 2" CHILLED WATER SUPPLY AND RETURN PIPING FROM ABV. TRANSITION TO 2-1/2" AFTER BRANCH PIPING FOR THIS FLOOR CONTINUE DOWN TO FLOOR BELOW.
 - ⑤ 1" R.O. PLANT DISCHARGE PIPING DN. TO FLOOR BELOW. REFER TO PLUMBING PLANS FOR PIPE ROUTING AND SIZING.
 - ⑥ 1-1/4" R.O. PLANT SUPPLY PIPING DN. TO FLOOR BELOW. REFER TO PLUMBING PLANS FOR PIPE ROUTING AND SIZING.
 - ⑦ 3" (160 GPM) CHILLER CONDENSER WATER SUPPLY AND RETURN PIPING DN. TO FLOOR BELOW.
 - ⑧ 2-1/2" (82.8 GPM) CHILLED WATER SUPPLY AND RETURN PIPING DOWN TO FLOOR BELOW.
 - ⑨ 2" (744,000 BTUH) L.P. GAS PIPING FROM ABV. TRANSITION TO 2" AFTER BRANCH PIPING FOR THIS FLOOR AND OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABV. AS INDICATED.
 - ⑩ 2" (700,000 BTUH) L.P. GAS PIPING DOWN TO FLOOR BELOW.
 - ⑪ PIPING SHALL ROUTE DOWN ALONG WALL EXPOSED IN THIS AREA.



1 FLOOR PLAN [STORAGE LEVEL] - MECHANICAL
SCALE: 1/4"=1'-0"

FLOOR PLAN [CAPTAIN'S QUARTER'S LEVEL] - MECHANICAL

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



SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"ø	0 - 125	12X12 LOUVERED FACE
B	TITUS TDC-AA	10"ø	205 - 325	24X24 LOUVERED FACE
C	N/A	-	-	-
D	TITUS 250-AA	10X6	125 - 200	CEILING REGISTER *
E	TITUS 250-AA	12X12	205 - 300	CEILING REGISTER *

NOTE:
* SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

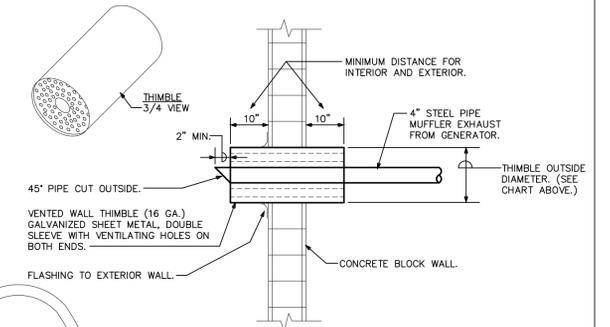
RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 350FL	16x16	0 - 1000	SIDEWALL REGISTER

NOTE:
* SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT BORDER TYPE 1.

VOID SPACE BELOW GENERATORS/ELECTRICAL ROOMS

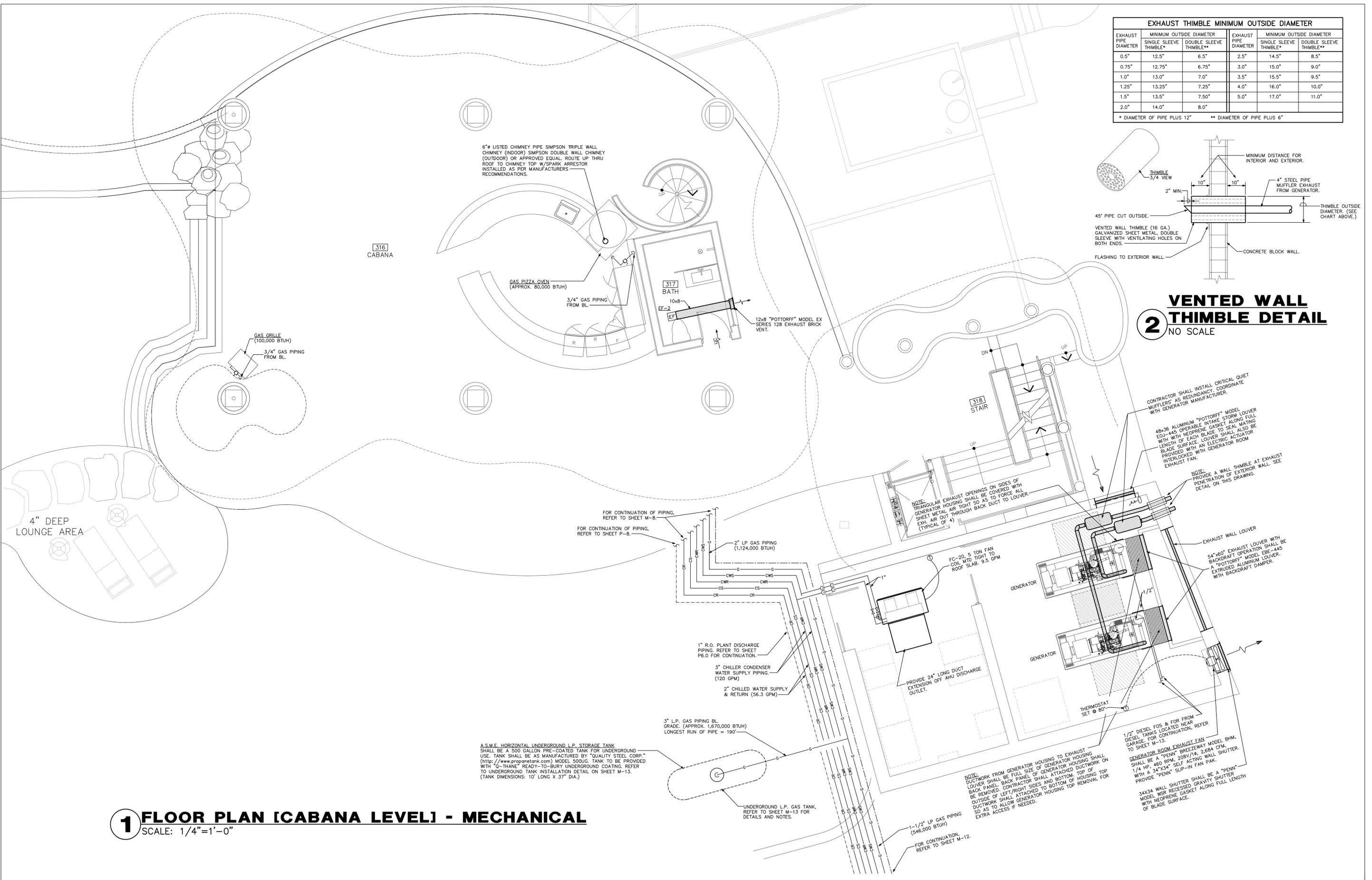
EXHAUST THIMBLE MINIMUM OUTSIDE DIAMETER					
EXHAUST PIPE DIAMETER	MINIMUM OUTSIDE DIAMETER		EXHAUST PIPE DIAMETER	MINIMUM OUTSIDE DIAMETER	
	SINGLE SLEEVE THIMBLE*	DOUBLE SLEEVE THIMBLE**		SINGLE SLEEVE THIMBLE*	DOUBLE SLEEVE THIMBLE**
0.5"	12.5"	6.5"	2.5"	14.5"	8.5"
0.75"	12.75"	6.75"	3.0"	15.0"	9.0"
1.0"	13.0"	7.0"	3.5"	15.5"	9.5"
1.25"	13.25"	7.25"	4.0"	16.0"	10.0"
1.5"	13.5"	7.50"	5.0"	17.0"	11.0"
2.0"	14.0"	8.0"			

* DIAMETER OF PIPE PLUS 12" ** DIAMETER OF PIPE PLUS 6"



VENTED WALL THIMBLE DETAIL

NO SCALE



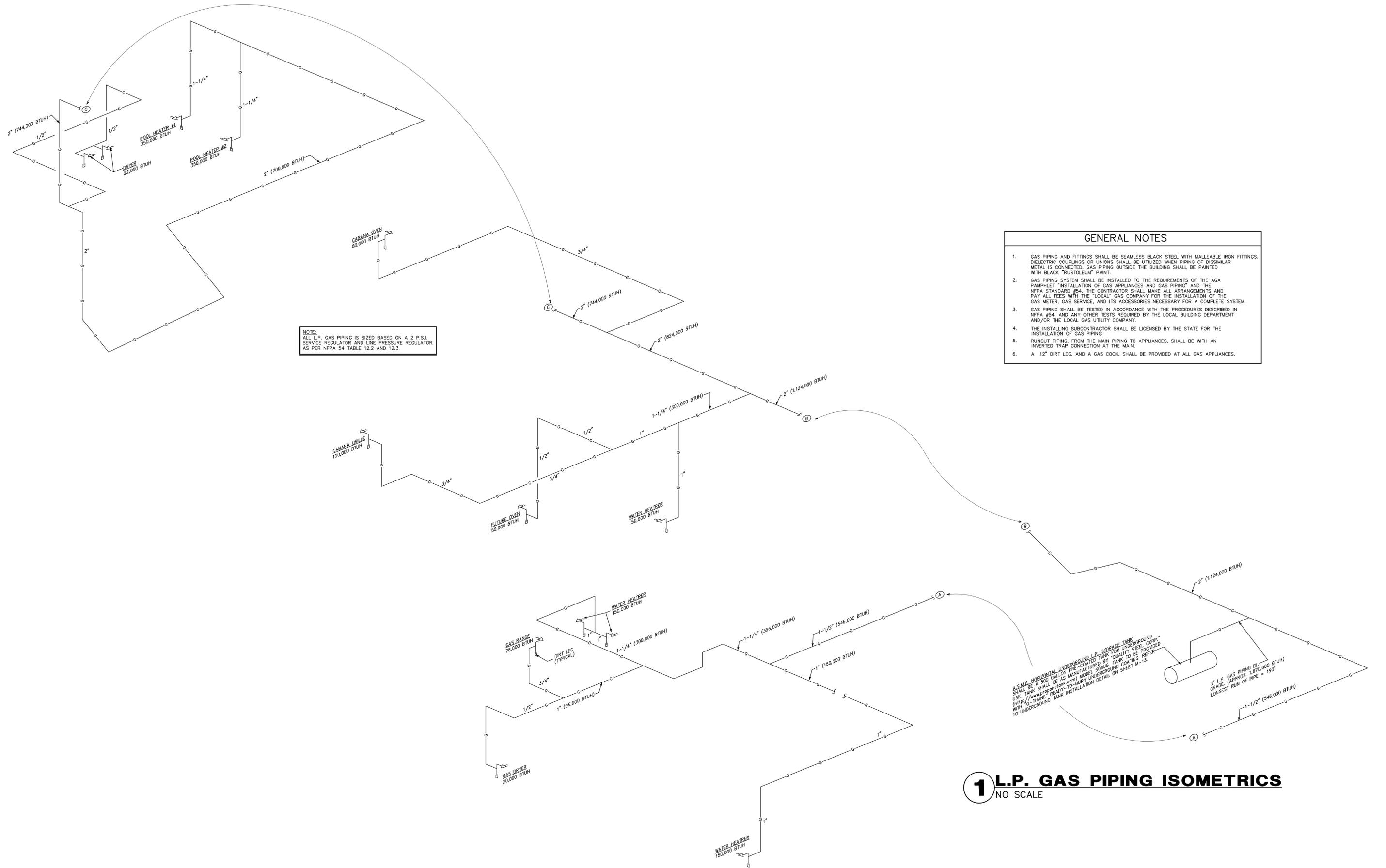
1 FLOOR PLAN [CABANA LEVEL] - MECHANICAL

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

A.S.M.E. HORIZONTAL UNDERGROUND L.P. STORAGE TANK SHALL BE A 500 GALLON FIRE-COATED TANK FOR UNDERGROUND USE. TANK SHALL BE AS MANUFACTURED BY "QUALITY STEEL CORP." (<http://www.propanetank.com>) MODEL 500UG. TANK TO BE PROVIDED WITH "D-THANE" READY-TO-BURY UNDERGROUND COATING. REFER TO UNDERGROUND TANK INSTALLATION DETAIL ON SHEET M-13. (TANK DIMENSIONS: 10' LONG X 37" DIA.)

NOTE: DUCTWORK FROM GENERATOR HOUSING TO EXHAUST LOUVER SHALL BE FULL SIZE OF GENERATOR HOUSING. BACK PANEL BACK PANEL OF GENERATOR HOUSING SHALL BE REMOVED. CONTRACTOR SHALL ATTACH DUCTWORK ON OUTSIDE OF LEFT/RIGHT SIDES AND BOTTOM. TOP OF DUCTWORK SHALL BE ATTACHED TO BOTTOM OF HOUSING TOP SO AS TO ALLOW GENERATOR HOUSING TOP REMOVAL FOR EXTRA ACCESS IF NEEDED.

1/2" DIESEL FOS & FOR FROM DIESEL TANKS LOCATED NEAR GARAGE. FOR CONTINUATION, REFER TO SHEET M-13.
GENERATOR ROOM EXHAUST FAN SHALL BE A "PENN" BREZEWAY MODEL BHM, 1/4 HP, 460 RPM, 208V/1Ø, 2.684 CFM, WITH A 34"x34" SELF ACTING WALL SHUTTER. PROVIDE "PENN" SLIP-IN FAN PAK.
34X34 WALL SHUTTER SHALL BE A "PENN" MODEL WSR RECESSED GRAVITY SHUTTER WITH NEOPRENE GASKET ALONG FULL LENGTH OF BLADE SURFACE.



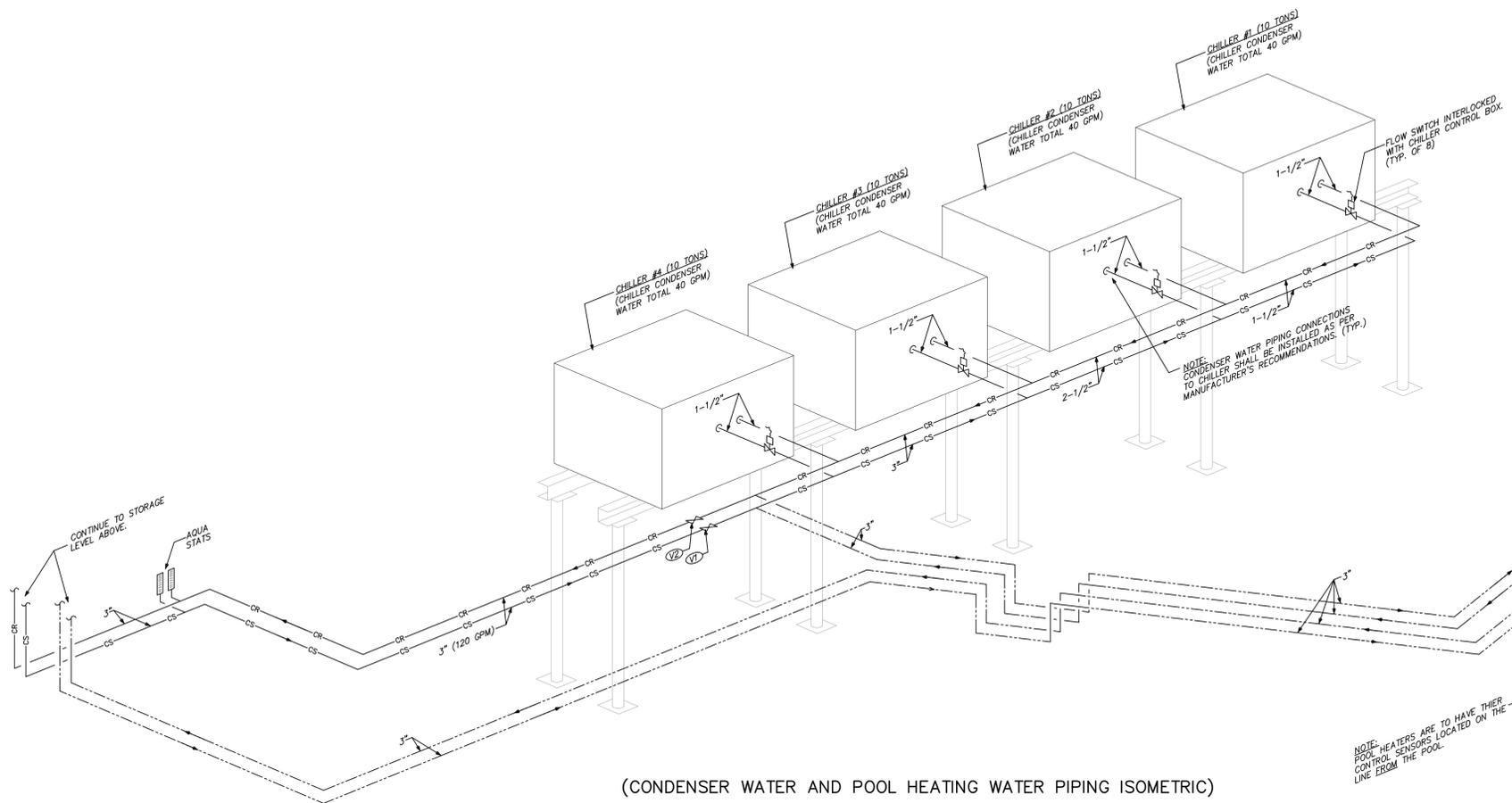
NOTE:
 ALL L.P. GAS PIPING IS SIZED BASED ON A 2 P.S.I. SERVICE REGULATOR AND LINE PRESSURE REGULATOR AS PER NFPA 54 TABLE 12.2 AND 12.3.

- | GENERAL NOTES | |
|---------------|---|
| 1. | GAS PIPING AND FITTINGS SHALL BE SEAMLESS BLACK STEEL WITH MALLEABLE IRON FITTINGS. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED. GAS PIPING OUTSIDE THE BUILDING SHALL BE PAINTED WITH BLACK "RUSTOLEUM" PAINT. |
| 2. | GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE AGA PAMPHLET "INSTALLATION OF GAS APPLIANCES AND GAS PIPING" AND THE NFPA STANDARD #54. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY ALL FEES WITH THE "LOCAL" GAS COMPANY FOR THE INSTALLATION OF THE GAS METER, GAS SERVICE, AND ITS ACCESSORIES NECESSARY FOR A COMPLETE SYSTEM. |
| 3. | GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA #54, AND ANY OTHER TESTS REQUIRED BY THE LOCAL BUILDING DEPARTMENT AND/OR THE LOCAL GAS UTILITY COMPANY. |
| 4. | THE INSTALLING SUBCONTRACTOR SHALL BE LICENSED BY THE STATE FOR THE INSTALLATION OF GAS PIPING. |
| 5. | RUNOUT PIPING FROM THE MAIN PIPING TO APPLIANCES, SHALL BE WITH AN INVERTED TRAP CONNECTION AT THE MAIN. |
| 6. | A 12" DIRT LEG, AND A GAS COCK, SHALL BE PROVIDED AT ALL GAS APPLIANCES. |

A.S.M.E. HORIZONTAL UNDERGROUND L.P. STORAGE TANK SHALL BE "500 GALLON PRE-COATED TANK FOR UNDERGROUND USE. TANK SHALL BE GAS MANUFACTURED BY "QUALITY STEEL CORP." (WWW.PROPELTHANK.COM) MODE 5000G. TANK TO BE PROVIDED WITH "O-TANK" READY-TO-BURIED UNDERGROUND COATING REFER WITH TO UNDERGROUND TANK INSTALLATION DETAIL ON SHEET M-13.

1" L.P. GAS PIPING BL. GRADE. (APPROX. 1,670,000 BTUH) LONGEST RUN OF PIPE = 190'

1 L.P. GAS PIPING ISOMETRICS
 NO SCALE



CHILLED WATER, CHILLER CONDENSER AND POOL HEATER VALVE SEQUENCE OF OPERATION

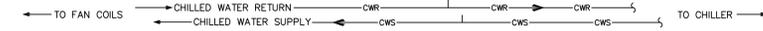
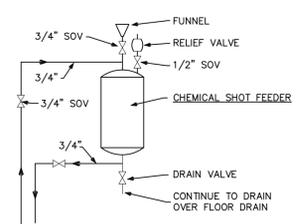
SEQUENCE OF OPERATION FOR SWITCHING FROM POOL HEATER TO CHILLER CONDENSER WATER AND BACK AGAIN FOR POOL HEAT SHALL BE AS FOLLOWS:

TO HEAT POOL VIA CHILLER CONDENSER WATER AND POOL HEATERS, THE VALVE POSITION SHALL BE VALVE "V1, V2, V3" FULLY CLOSED AND "V4, V5," FULLY OPEN.

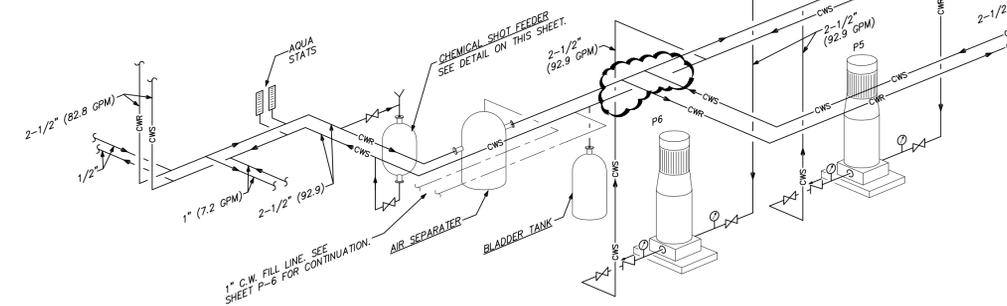
CHILLER CONDENSER WATER FROM SALT WATER ONLY - (NO POOL WATER) VALVE "V1, V2" FULLY OPENED AND "V3, V4, V5" FULLY CLOSED.

(CONDENSER WATER AND POOL HEATING WATER PIPING ISOMETRIC)

NOTE - THIS DIAGRAM IS INTENDED ONLY TO SHOW THE NECESSARY PIPING, VALVES, AND APPURTENANCES FOR THE CHEMICAL TREATMENT SYSTEMS. SEE OTHER DETAILS AND/OR PIPING DRAWINGS FOR ISOLATION VALVES, THERMOMETERS, BALANCING VALVES, ETC. OF THE CHILLERS, PUMPS AND TOWER



2 CHEMICAL FEEDER SYSTEMS DETAIL
NO SCALE



(CHILLED WATER PIPING ISOMETRIC)

1 MECHANICAL RM. PIPING ISOMETRICS
NO SCALE

PUMP SCHEDULE										
LABEL	TYPE OF UNIT	MATERIALS (PUMP)	MATERIALS (IMPELLER)	MANUFACTURER & MODEL NO.	GPM	TOTAL DYNAMIC HEAD	MOTOR H.P.	RPM	VOLTAGE	NOTES
P1 (CHILLER PRIMARY PUMP)	END SUCTION	CAST IRON	304 STAINLESS STEEL	GRUNDFOS CR5-2WR	30	35'	1.0	3464	208V/1Ø	1,2
P2 (CHILLER PRIMARY PUMP)	END SUCTION	CAST IRON	304 STAINLESS STEEL	GRUNDFOS CR5-2WR	30	35'	1.0	3464	208V/1Ø	1,2
P3 (CHILLER PRIMARY PUMP)	END SUCTION	CAST IRON	304 STAINLESS STEEL	GRUNDFOS CR5-2WR	30	35'	1.0	3464	208V/1Ø	1,2
P4 (CHILLER PRIMARY PUMP)	END SUCTION	CAST IRON	304 STAINLESS STEEL	GRUNDFOS CR5-2WR	30	35'	1.0	3464	208V/1Ø	1,2
P5 (CHILLER SECONDARY PUMP)	END SUCTION	CAST IRON	304 STAINLESS STEEL	GRUNDFOS CR15-2WR	92.9	50'	5.0	3499	208V/3Ø	1,2
P6 (CHILLER SECONDARY PUMP)	END SUCTION	CAST IRON	304 STAINLESS STEEL	GRUNDFOS CR15-2WR	92.9	50'	5.0	3499	208V/3Ø	1,2
P7 (CHILLER CONDENSER PUMP)	WELL-SUBMERSIBLE (SALT WATER)	904L STAINLESS STEEL	904L STAINLESS STEEL	GRUNDFOS SP46-2-ABR	160	81'	5.0	3450	208V/3Ø	1
P8 (R.O. PLANT PUMP)	WELL-SUBMERSIBLE (SALT WATER)	904L STAINLESS STEEL	904L STAINLESS STEEL	GRUNDFOS 5SP5-15-5R	20	92'	1.5	3450	208V/3Ø	1

NOTES:
 1) PROVIDE ALL NECESSARY CONTACTORS, RELAYS AND MOTOR STATERS, ETC., FOR A COMPLETE OPERATING SYSTEM.
 2) PROVIDE HIGH EFFICIENCY TEFC MOTOR AND MECHANICAL SEAL FOR PUMP.

CONTACT BILL ROYSTER AT 704-889-8892 OR VISIT WWW.BILLROYSTER.COM FOR MORE INFORMATION. CONTACT BILL ROYSTER AT 704-889-8892 OR VISIT WWW.BILLROYSTER.COM FOR MORE INFORMATION.

CHILLER SCHEDULE																	
SYSTEM DATA				EVAPORATOR DATA				CONDENSER DATA *				ELECTRICAL DATA & NOTES					
LABEL	TYPE OF UNIT	MANUFACTURER & MODEL NO.	CAPACITY	EWT	LWT	DESIGN GPM	MIN. GPM	PRESSURE DROP	EWT	LWT	DESIGN GPM	MIN. GPM	PRESSURE DROP	RLA	MOCF	VOLTAGE	NOTES
CHILLER #1-4	(2) SCROLL COMPRESSORS	OCEANBREEZE CW120S **	10 TONS	55°F	45°F	30	22	11.5 FT. W.G.	85°F	93.7°F	40	33	11.5 FT. W.G.	32	40	208V/3Ø	

NOTES:
 1.) PROVIDE FACTORY SUPPLIED CONTROL BOX FOR EACH CHILLER.
 2.) INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
 * CUPRONICKEL SEA WATER RATED MATERIAL CONSTRUCTION.
 ** MANUFACTURED BY QUORUM MARINE & ELECTRONICS, INC.

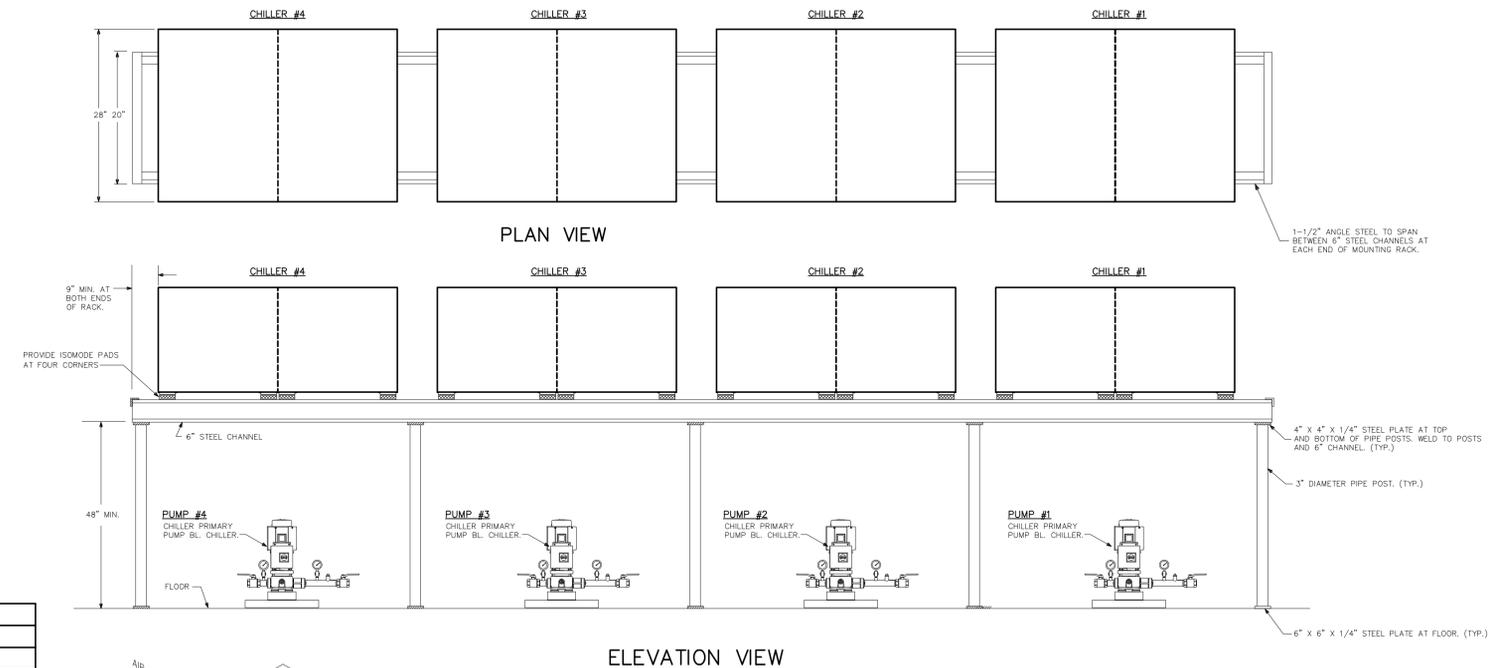
FAN SCHEDULE										
LABEL	TYPE OF UNIT - AREA SERVED	MANUFACTURER & MODEL NO.	CFM	SP	MOUNTING ARRANGEMENT	MOTOR H.P.	ENCLOSURE TYPE	RPM	VOLTAGE	NOTES
EF-1	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z6	90	.125"	CEILING MOUNTED	50 WATTS	OPEN DRIP PROOF	1055	115V/1Ø	1
EF-2	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z7	190	.125"	CEILING MOUNTED	68 WATTS	OPEN DRIP PROOF	1640	115V/1Ø	1
EF-3	N/A	-	-	-	-	-	-	-	-	-
EF-4	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z81S(TDA)	250	.125"	INLINE	84 WATTS	OPEN DRIP PROOF	1050	115V/1Ø	1
EF-5,6	CABINET FAN - REFER TO PLANS	ABBAKA FKD 8XL	800	.125"	INLINE	327 WATTS	OPEN DRIP PROOF	2700	115V/1Ø	1
EF-7	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z6S(TDA)	90	.125"	INLINE	46 WATTS	OPEN DRIP PROOF	1050	115V/1Ø	1
EF-8	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z6S(TDA)	90	.125"	INLINE	46 WATTS	OPEN DRIP PROOF	1050	115V/1Ø	1
EF-9	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z81S(TDA)	250	.125"	INLINE	84 WATTS	OPEN DRIP PROOF	1050	115V/1Ø	1

NOTES: 1.) REFER TO ELECTRICAL PLANS FOR CONTROL.

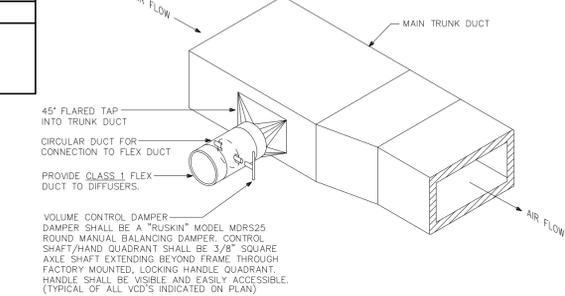
FAN COIL SCHEDULE																			
LABEL	TYPE OF UNIT	MANUFACTURER & MODEL NO.	UNIT SIZE	CFM	O/A CFM	SPEED	MOTOR H.P.	E.S.P.	TOTAL CAPACITY	SENSIBLE CAPACITY	G.P.M.	PRESSURE DROP	EAT DB	EAT WB	LAT DB	LAT WB	HEATER	VOLTAGE	NOTES
FC-1	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DEA12ALEY6AYYY	12	1,200	-	HIGH	(2)Ø1/10	.125"	29,844	23,941	6.0	7.17 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-2	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA06ALEY6AYYY	06	500	-	HIGH	(1)Ø1/10	.125"	14,493	11,938	2.9	3.66 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-3	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DEA16ALEY6AYYY	16	1,600	-	HIGH	(2)Ø1/5	.125"	40,720	32,733	8.1	7.07 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-4	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DEA08ALEY6AYYY	08	800	-	HIGH	(1)Ø1/8	.125"	20,093	15,969	4.0	8.46 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-5	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DEA06ALEY6AYYY	06	500	-	HIGH	(1)Ø1/10	.125"	14,493	11,938	2.9	3.66 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-6	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DEA06ALEY6AYYY	06	500	-	HIGH	(1)Ø1/10	.125"	14,493	11,938	2.9	3.66 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-7	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DEA20ALEY6AYYY	20	2,000	-	HIGH	(2)Ø1/4	.125"	47,727	37,076	9.5	11.52 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-8	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DEA14ALEY6AYYY	14	1,400	-	HIGH	(2)Ø1/10	.125"	37,590	31,190	7.5	5.40 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-9	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DEA20ALEY6AYYY	20	2,000	-	HIGH	(2)Ø1/4	.125"	47,727	37,076	9.5	11.52 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-10A	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA10ALEY6AYYY	10	1,000	-	HIGH	(1)Ø1/4	.125"	21,032	16,798	4.2	3.10 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-10B	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA06ALEY6AYYY	06	500	-	HIGH	(1)Ø1/10	.125"	14,493	11,938	2.9	3.66 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-11	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA06ALEY6AYYY	06	500	-	HIGH	(1)Ø1/10	.125"	15,093	12,542	3.0	3.97 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-12	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA06ALEY6AYYY	06	600	-	HIGH	(1)Ø1/10	.125"	15,093	12,542	3.0	3.97 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-13	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA06ALEY6AYYY	06	600	-	HIGH	(1)Ø1/10	.125"	15,093	12,542	3.0	3.97 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-14	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA14ALEY6AYYY	14	1,400	-	HIGH	(2)Ø1/10	.125"	34,313	27,937	6.9	4.5 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-15	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA06ALEY6AYYY	06	500	-	HIGH	(1)Ø1/10	.125"	15,093	12,542	3.0	3.97 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-16	VERTICAL FAN COIL UNIT	CARRIER - 42DDA06ALEY6AYYY	06	600	-	HIGH	(1)Ø1/10	.125"	16,426	13,894	3.3	4.7 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-17	HORIZONTAL ABOVE CLG. FAN COIL UNIT	CARRIER - 42DEA08ALEY6AYYY	08	800	-	HIGH	(1)Ø1/8	.125"	20,093	15,969	4.0	8.46 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-18	VERTICAL FAN COIL UNIT	CARRIER - 42DDA06ALEY6AYYY	06	600	-	HIGH	(1)Ø1/10	.125"	16,426	13,894	3.3	4.7 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-19	HORIZONTAL ABOVE CLG. FAN COIL UNIT EXPOSED	CARRIER - 42DFA06ALEY6AYYY	06	500	-	HIGH	(1)Ø1/10	.125"	15,093	12,542	3.0	3.97 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5
FC-20	HORIZONTAL EXPOSED. FAN COIL UNIT	CARRIER - 42DEA20ALEY6AYYY	20	2,000	-	HIGH	(2)Ø1/4	.125"	47,727	37,076	9.5	11.52 FT. W.G.	80° F	67° F	58.5° F	57.1° F	-	240V/1Ø	1 THRU 5

NOTES:
 1) CHILLED WATER BASED ON 45° F ENTERING WATER TEMPERATURE.
 2) PROVIDE VIBRATION ISOLATION FOR UNIT.
 3) PROVIDE 3-WAY VALVE PACKAGE.
 4) REFER TO ELECTRICAL PLANS FOR CONTROLS.
 5) UNIT IS ENCLOSED FOR CONCEALED INSTALLATION AND SHALL BE CONSTRUCTED OF GALVANIZED STEEL WITH REMOVABLE BOTTOM AND SIDE PANELS FOR ACCESS TO INTERNAL COMPONENTS. UNITS SHALL BE ACOUSTICALLY AND THERMALLY INSULATED WITH CLOSED CELL INSULATION.

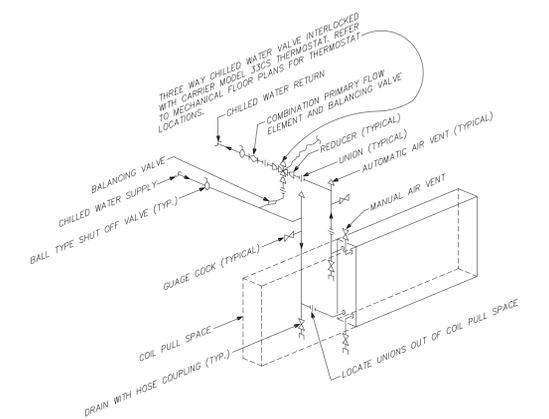
EAT DB - ENTERING WATER TEMPERATURE DRY BULB
 EAT WB - ENTERING WATER TEMPERATURE WET BULB
 LAT DB - LEAVING WATER TEMPERATURE DRY BULB
 LAT WB - LEAVING WATER TEMPERATURE WET BULB



1 CHILLER MOUNTING DETAIL
NO SCALE



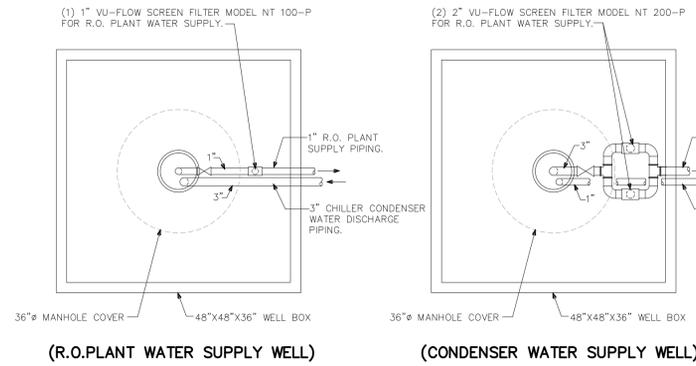
2 BRANCH DUCT DETAIL
NO SCALE



3-WAY CHILLED WATER VALVE DETAIL
NO SCALE

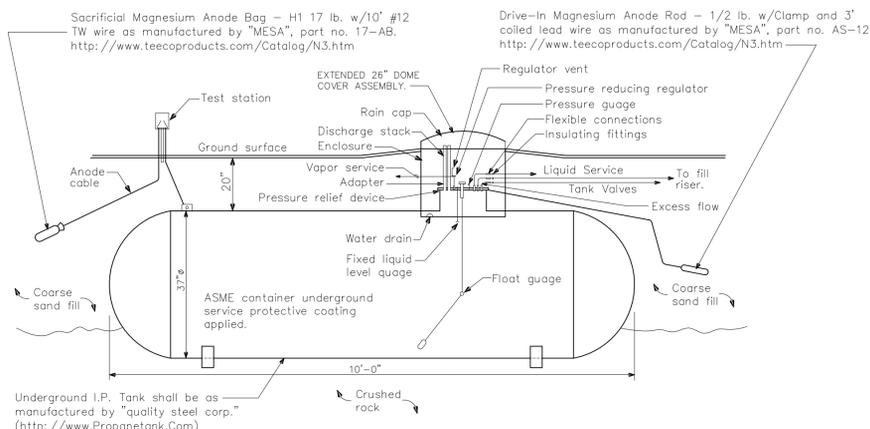
- GENERAL MECHANICAL NOTES**
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, ALL MANUFACTURER'S INSTALLATION REQUIREMENTS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-91 MECHANICAL ALL DUCTWORK SHALL BE FABRICATED, INSTALLED AND SUPPORTED AS PER SMACNA STANDARDS.
 - THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
 - ALL MATERIAL SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
 - ALL AIR CONDITIONING DUCT WORK SHALL BE OF 1-1/2" STANDARD DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON VAPOR BARRIER ALL FLEX TO BE R-8.
 - ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
 - DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
 - ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE TITULUS, METALAIR, AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
 - FAN COIL PROGRAMMABLE THERMOSTAT SHALL BE A "CARRIER" MODEL 33CS * CONTRACTOR SHALL FULLY INSTRUCT OWNER ON HOW TO PROPERLY PROGRAM INSTALLED THERMOSTATS. * IT IS RECOMMENDED THAT DURING OCCUPIED HOURS, THE FANS BE SET TO "ON" IN LIEU OF "AUTO".
 - PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.
 - MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH. PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND WIND LOADING FORCES AS REQUIRED BY LOCAL CODES. REFER TO STRUCTURAL PLANS BY OTHERS FOR STRUCTURAL DETAILS.
 - PROVIDE ALL NECESSARY CONTACTORS, RELAYS, ETC., FOR A COMPLETE OPERATING A/C UNIT.
 - IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF THE CONTRACTOR FAILING TO GIVE SUCH NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE COST OF RECTIFYING SAME.
 - ALL CONDENSER WATER PIPING, POOL HEATER PIPING, AND OTHER PIPING WHICH WILL BE HANDLING SALT WATER (OR POOL WATER) SHALL BE SCHEDULE 40 PVC WITH MOLDED SOCKET FITTINGS.
 - ALL CHILLED WATER PIPING IS TO BE PRE-INSULATED PVC PIPING EQUAL TO INSUL-TEK (WWW.INSUL-TEK.COM) AS MANUFACTURED BY PREINSULATED PIPING SYSTEMS, INC. CARRIER PIPE TO BE PVC SDR-26, CLASS 160 PIPE WITH FOAMED IN PLACE CLOSED CELL POLYURETHANE FOAM COMPLETELY FILLING THE ANNULUS BETWEEN THE CARRIER PIPE AND THE JACKETING. THE OUTER CASING SHALL BE EXTRUDED WHITE PVC TYPE 1, GRADE 1, CLASS 12454-B.

WITH FACTORY INSTALLED ELECTRIC 3-WAY VALED TO BE INTERLOCKED WITH THE 33CS THERMOSTAT.



(R.O. PLANT WATER SUPPLY WELL)

(CONDENSER WATER SUPPLY WELL)



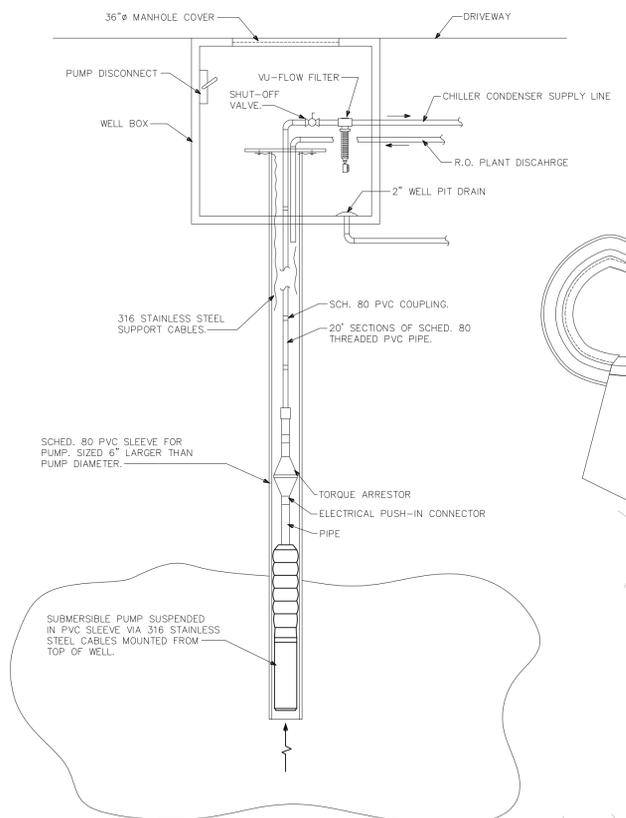
Sacrificial Magnesium Anode Bag - H1 17 lb. w/10' #12 TW wire as manufactured by "MESA", part no. 17-AB. <http://www.teecoproducts.com/Catalog/N3.htm>

Drive-In Magnesium Anode Rod - 1/2 lb. w/Clamp and 3' coiled lead wire as manufactured by "MESA", part no. AS-12. <http://www.teecoproducts.com/Catalog/N3.htm>

Underground L.P. Tank shall be as manufactured by "quality steel corp." (<http://www.Propanetank.com>)

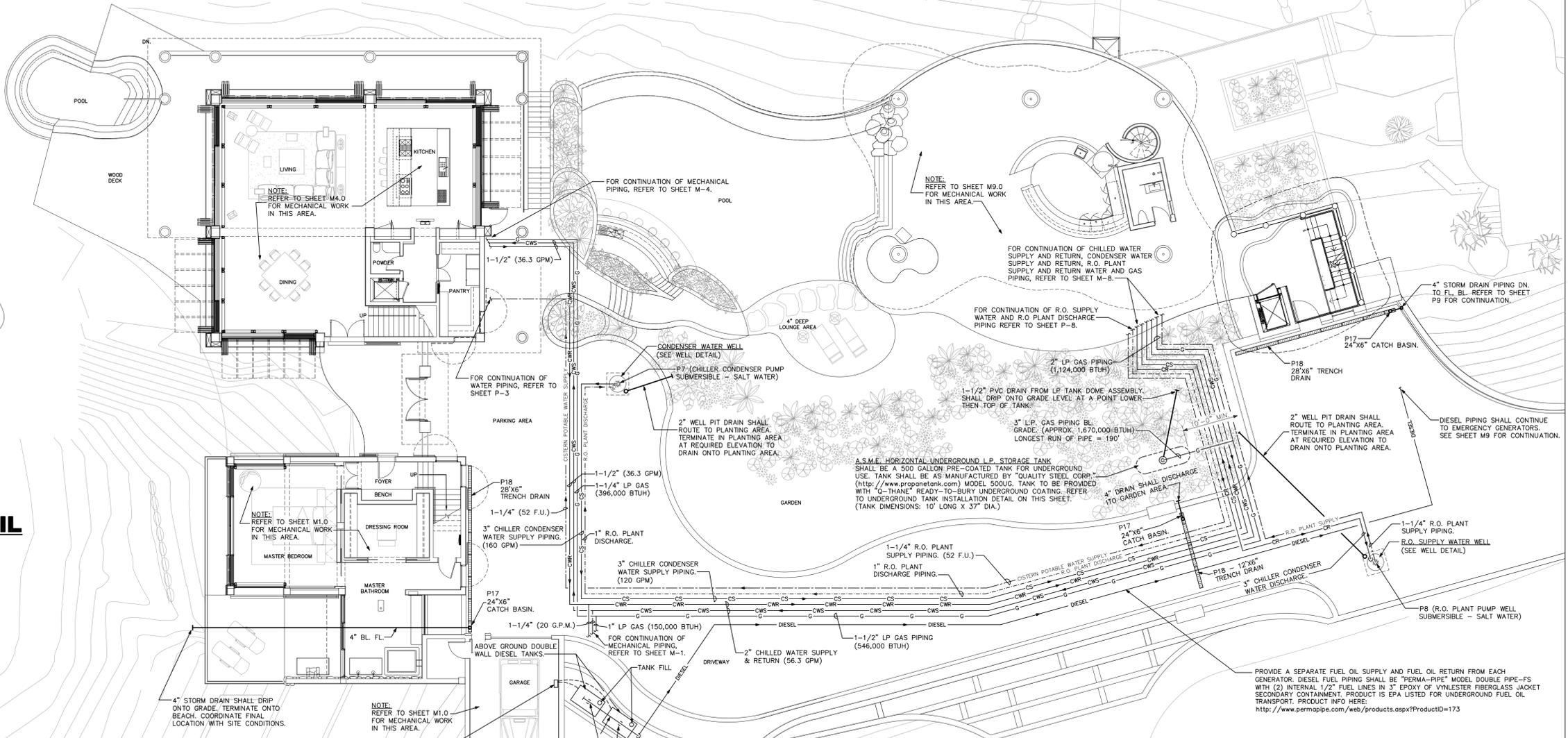
2 UNDERGROUND L.P. TANK INSTALLATION DETAIL

NO SCALE



2 WELL/PUMP INSTALLATION DETAIL

NO SCALE



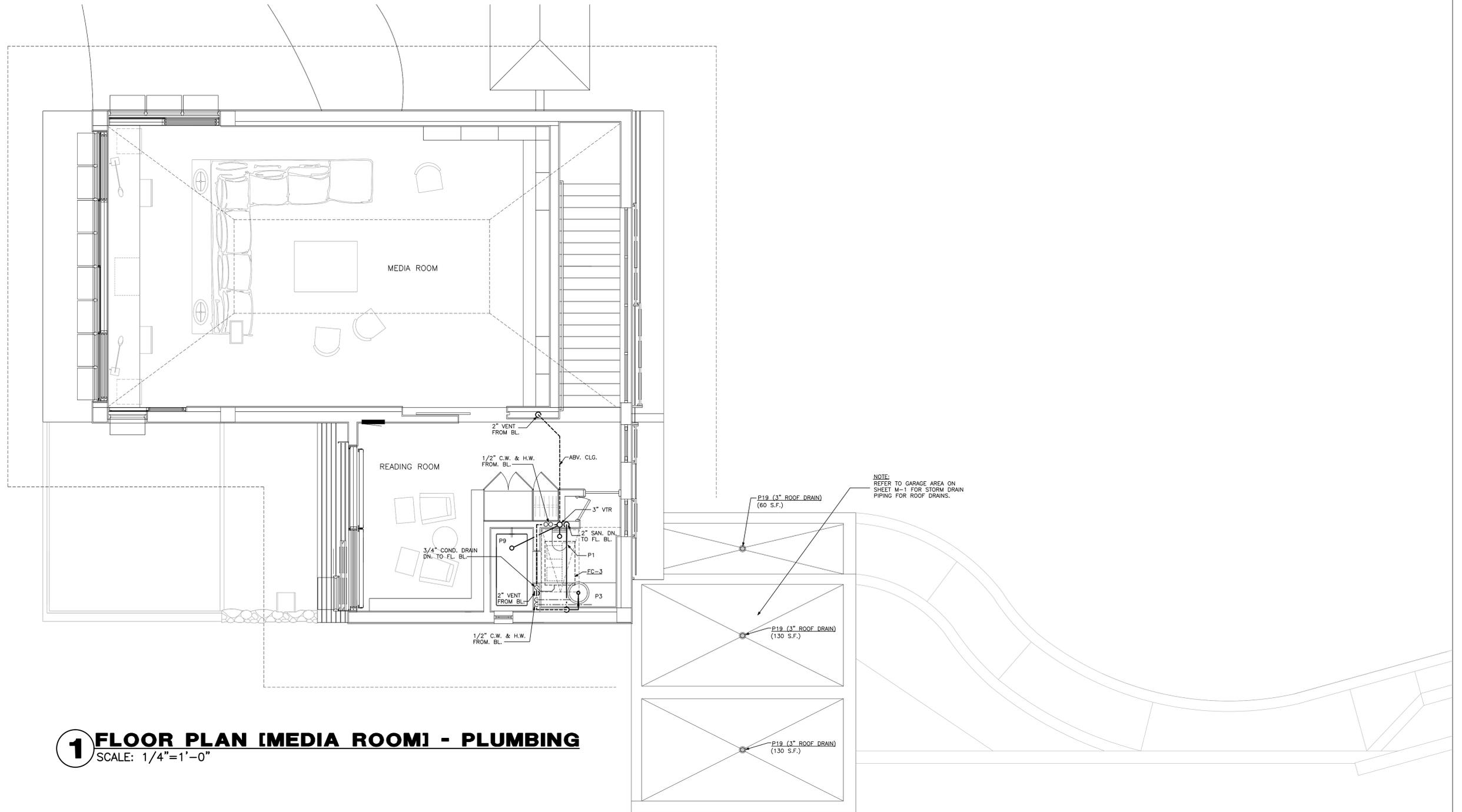
1 OVERALL FLOOR PLAN - MECHANICAL & PLUMBING PIPING

SCALE: 3/32"=1'-0"

TANK MONITOR SHALL BE A "SENTARY JARHEAD" WALL MOUNT TANK ALARM SYSTEM WITH 12 VOLT TRANSFORMER. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. <http://www.wastetank.com/sentary-jarhead-wall-mount-tank-alarm-with-12-volt-transformer-sentary-jarhead.aspx>

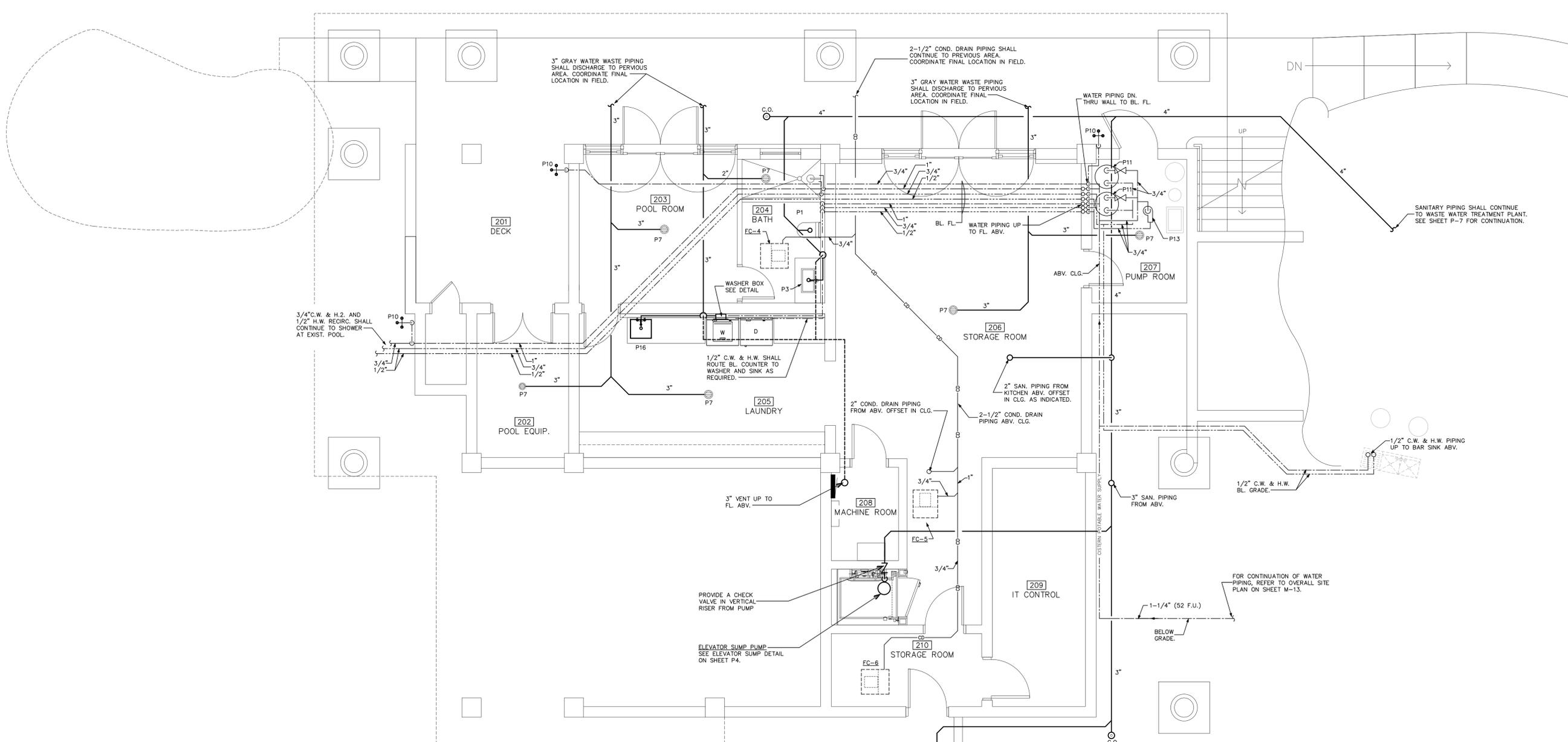
NOTE: MOTORIZED BALL VALVE IN FILL LINE FOR OVERFILL PROTECTION, INTERLOCK WITH REMOTE ALARM SYSTEM MOUNTED IN GARAGE. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE A SEPARATE FUEL OIL SUPPLY AND FUEL OIL RETURN FROM EACH GENERATOR. DIESEL FUEL PIPING SHALL BE "PERMA-PIPE" MODEL DOUBLE PIPE-FS WITH (2) INTERNAL 1/2" FUEL LINES IN 3" EPOXY OF VINYLESTER FIBERGLASS JACKET SECONDARY CONTAINMENT. PRODUCT IS EPA LISTED FOR UNDERGROUND FUEL OIL TRANSPORT. PRODUCT INFO HERE: <http://www.permapipe.com/web/products.aspx?ProductID=173>

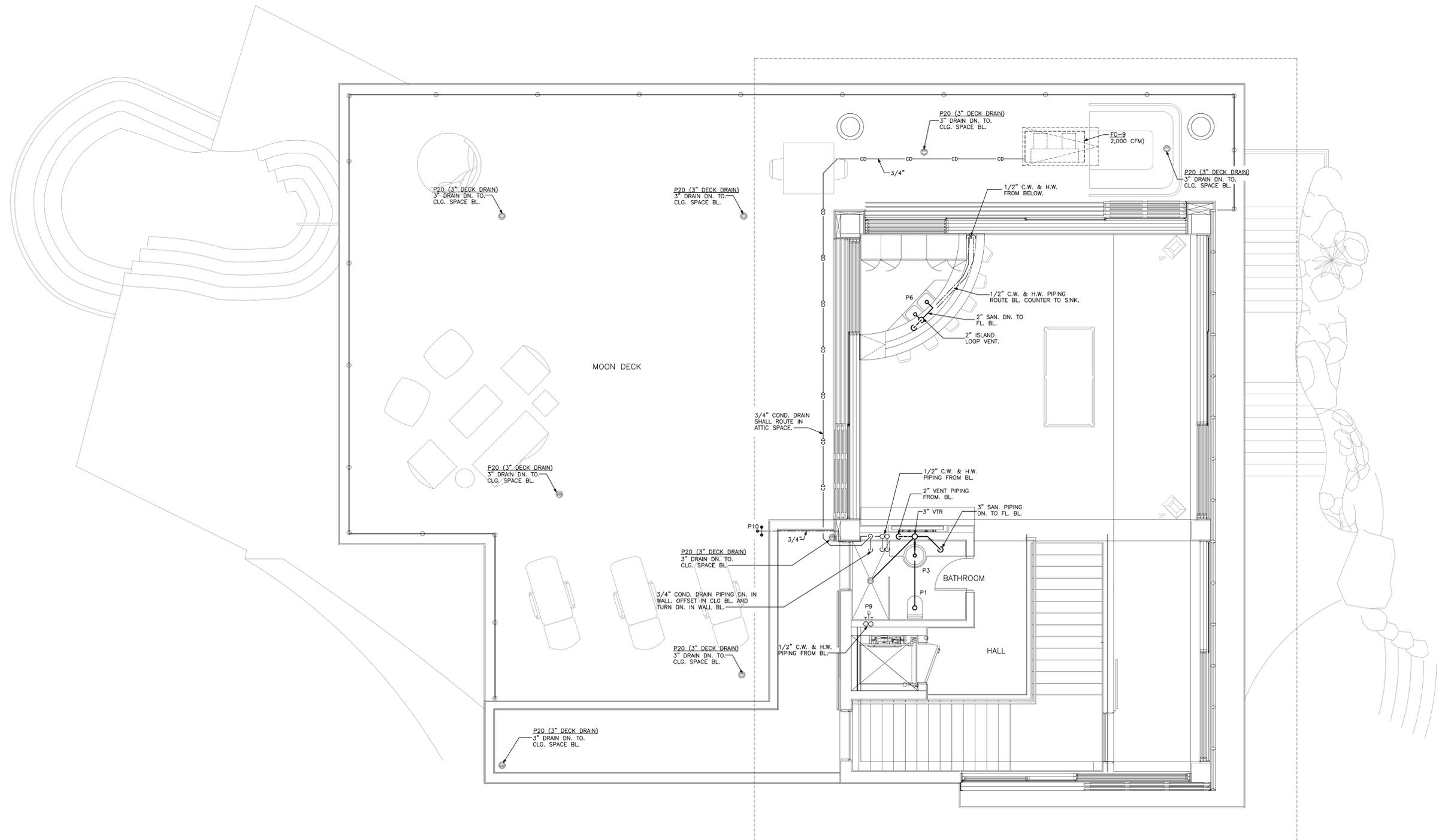


1 FLOOR PLAN [MEDIA ROOM] - PLUMBING
 SCALE: 1/4"=1'-0"

NOTE:
 REFER TO GARAGE AREA ON
 SHEET M-1 FOR STORM DRAIN
 PIPING FOR ROOF DRAINS.

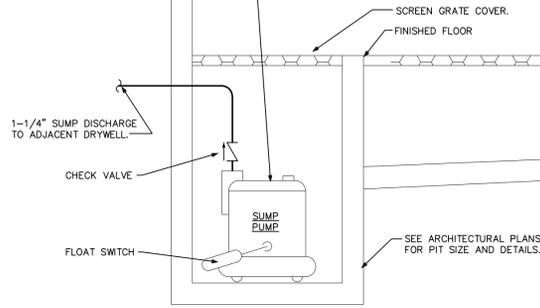


1 FLOOR PLAN [SERVICE LEVEL] - PLUMBING
 SCALE: 1/4"=1'-0"

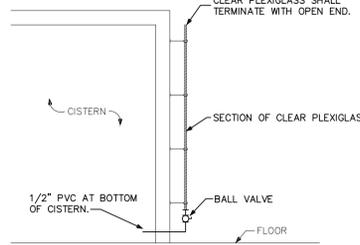


1 FLOOR PLAN [GAME ROOM] - PLUMBING
 SCALE: 1/4" = 1'-0"

SUBMERSIBLE STAINLESS STEEL SUMP PUMP, SHALL BE A "DAYTON" MODEL #31076, GRANGER STOCK #31076, 3/4 HP, VOLTAGE @ 60 HZ 115, CURRENT @ 115 VAC 6.1 AMPS, AUTOMATIC SWITCH, OFF POINT 6 INCHES, ON POINT 12 INCHES, WATER FLOW @ 5 FEET OF HEAD 45 GPM, SHUT OFF @ 26.2 FEET, DISCHARGE NPT 1 1/4 INCHES, MAXIMUM SOLID HANDLING 3/4 INCH.

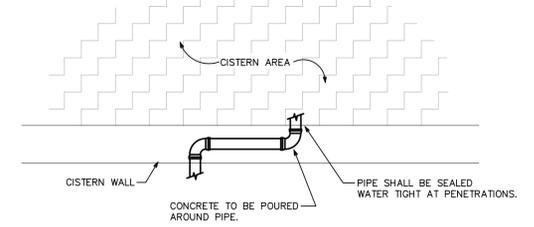


2 CISTERN LEVEL SUMP DETAIL
NO SCALE

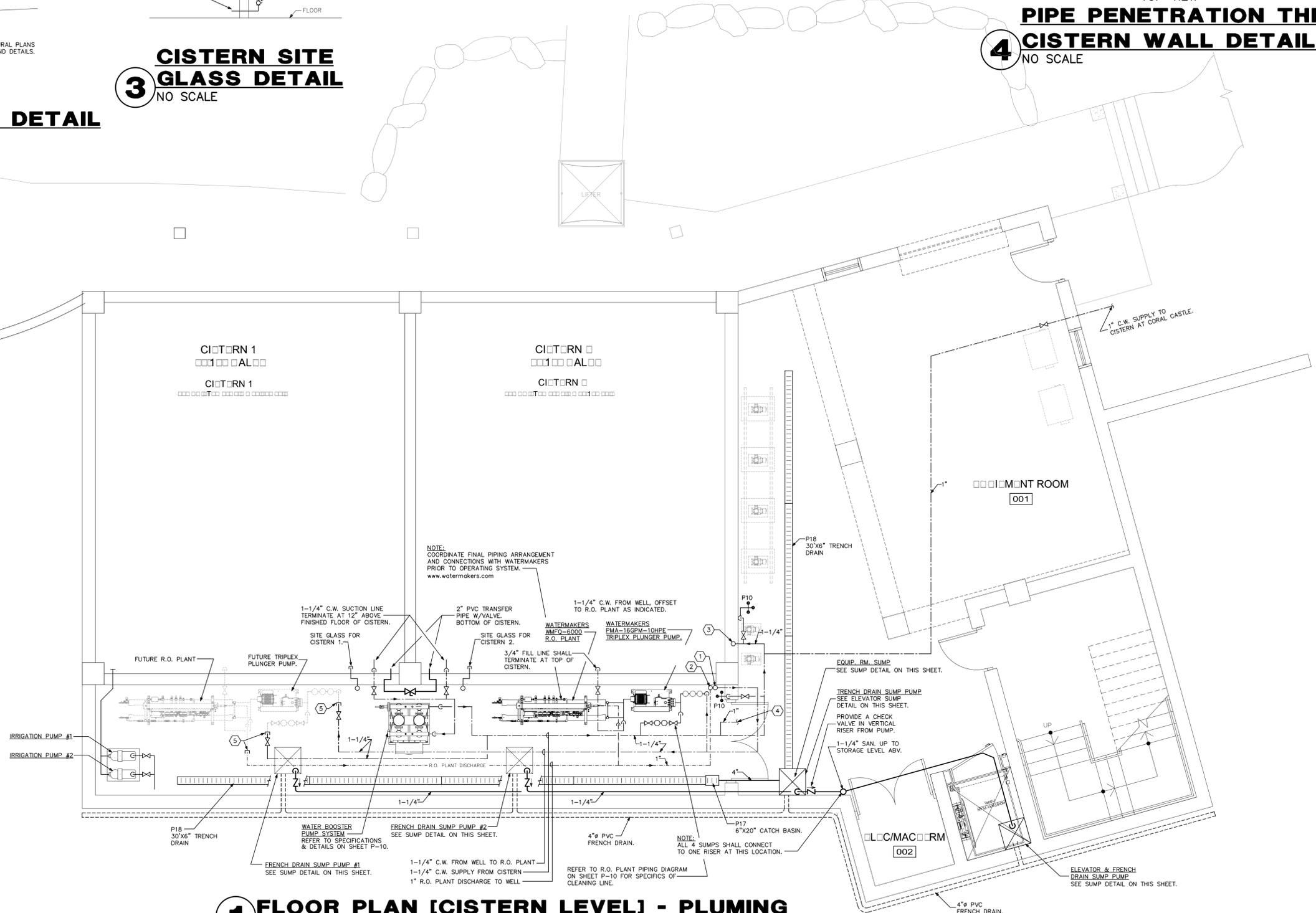


3 CISTERN SITE GLASS DETAIL
NO SCALE

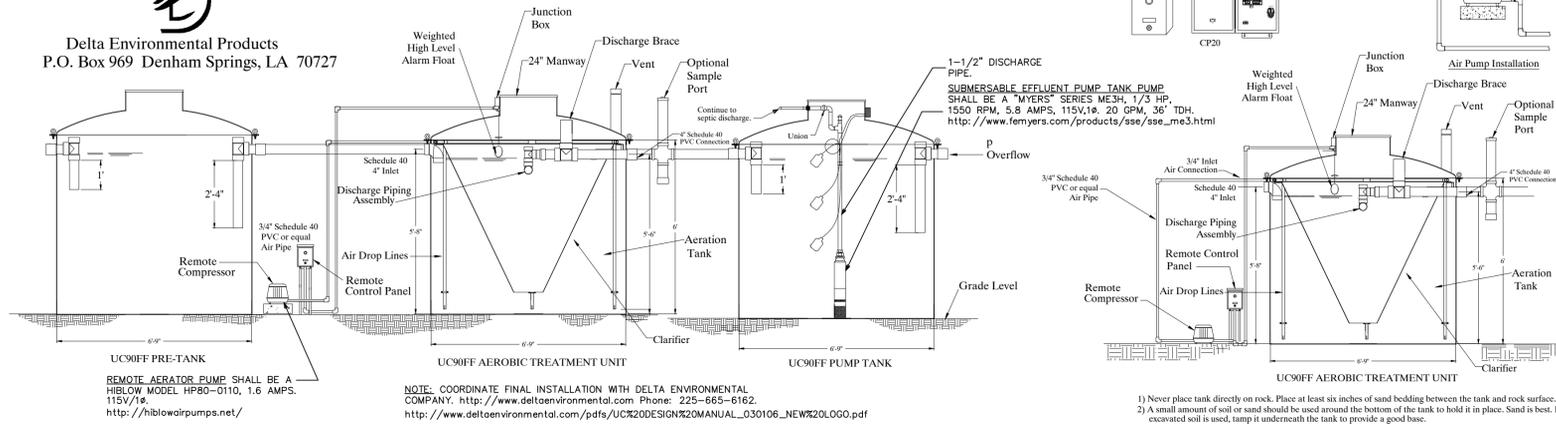
- SPECIFIC PLUMBING NOTES**
- 1-1/4" R.O. PLANT SUPPLY WATER PIPING FROM ABOVE, OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE. THIS IS SUPPLY PIPING FROM WELL. SEE OVERALL SITE PLAN ON SHEET M-13 FOR LOCATION OF WELL.
 - 1" R.O. PLANT DISCHARGE WATER PIPING UP TO FLOOR ABOVE AND SHALL CONTINUE TO DISCHARGE WELL. SEE OVERALL SITE PLAN ON SHEET M-13 FOR LOCATION OF DISCHARGE POINT AT WELL.
 - 1-1/4" CISTERN POTABLE WATER SUPPLY PIPING UP TO FLOOR ABOVE.
 - 1" MAKE-UP WATER LINE TO CHILLER AREA. REFER TO CHILLED WATER PIPING PLAN ON SHEET M-6A FOR CONTINUATION.
 - PIPING CAPPED FOR FUTURE R.O. PLANT.



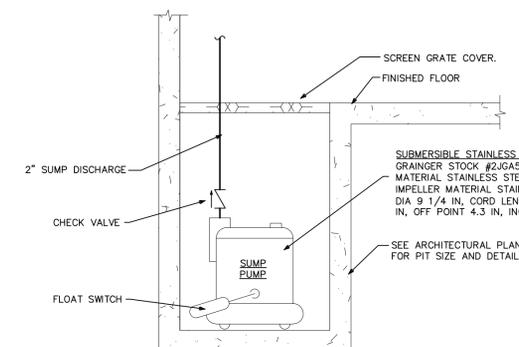
4 PIPE PENETRATION THRU CISTERN WALL DETAIL.
NO SCALE



1 FLOOR PLAN [CISTERN LEVEL] - PLUMBING
SCALE: 1/4"=1'-0"



SPECIFIC PLUMBING NOTES	
1	1-1/4" R.O. PLANT SUPPLY WATER PIPING FROM ABOVE. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE AS INDICATED.
2	1" R.O. PLANT DISCHARGE WATER PIPING UP TO FLOOR ABOVE OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE AS INDICATED.
3	1-1/4" R.O. PLANT SUPPLY WATER PIPING UP TO FLOOR ABOVE.
4	1" R.O. PLANT DISCHARGE WATER PIPING UP TO FLOOR ABOVE.
5	1" COND. DRAIN PIPING FROM ABV. OFFSET TO HUB DRAIN. TERMINATE 2" ABV. DRAIN.
6	PIPING SHALL BE MOUNTED TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE.
7	1-1/4" CISTERN POTABLE WATER SUPPLY PIPING FROM BELOW. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE AS INDICATED.
8	1-1/4" CISTERN POTABLE WATER SUPPLY PIPING UP TO FLOOR ABOVE.
9	1" CONDENSATE DRAIN PIPING FROM ABOVE. OFFSET TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE AS INDICATED.

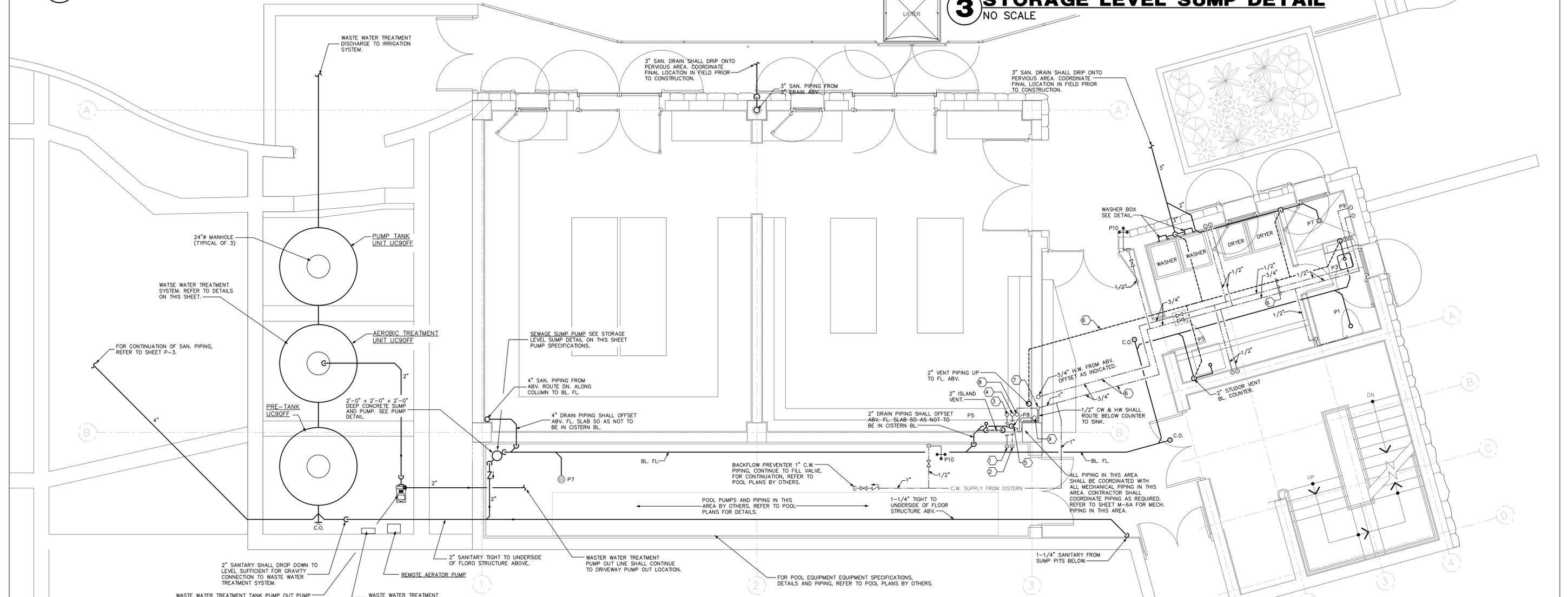


- 1) Never place tank directly on rock. Place at least six inches of sand bedding between the tank and rock surface.
- 2) A small amount of soil or sand should be used around the bottom of the tank to hold it in place. Sand is best. If excavated soil is used, tamp it underneath the tank to provide a good base.
- 3) The plant should be level within 1/2 inch, edge to edge.
- 4) Maximum burial depth - 2 feet from top of tank flange with dome or 24\"/>

DELTA ENVIRONMENTAL PRODUCTS MODEL UC90FF

2 WASTE WATER TREATMENT PLANT SCHEMATIC/DETAILS
NO SCALE

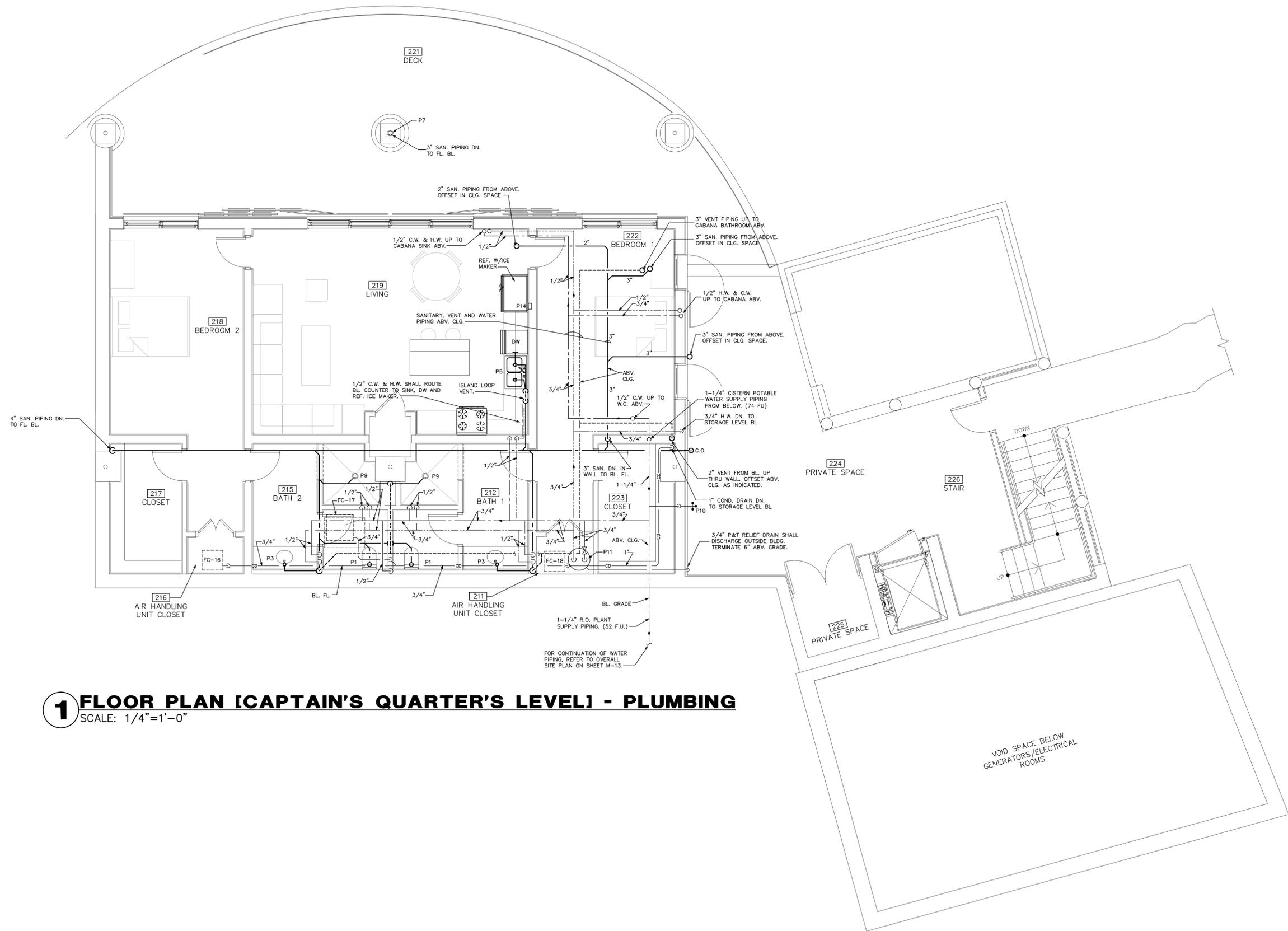
3 STORAGE LEVEL SUMP DETAIL
NO SCALE



1 FLOOR PLAN (STORAGE LEVEL) - PLUMBING
SCALE: 1/4"=1'-0"

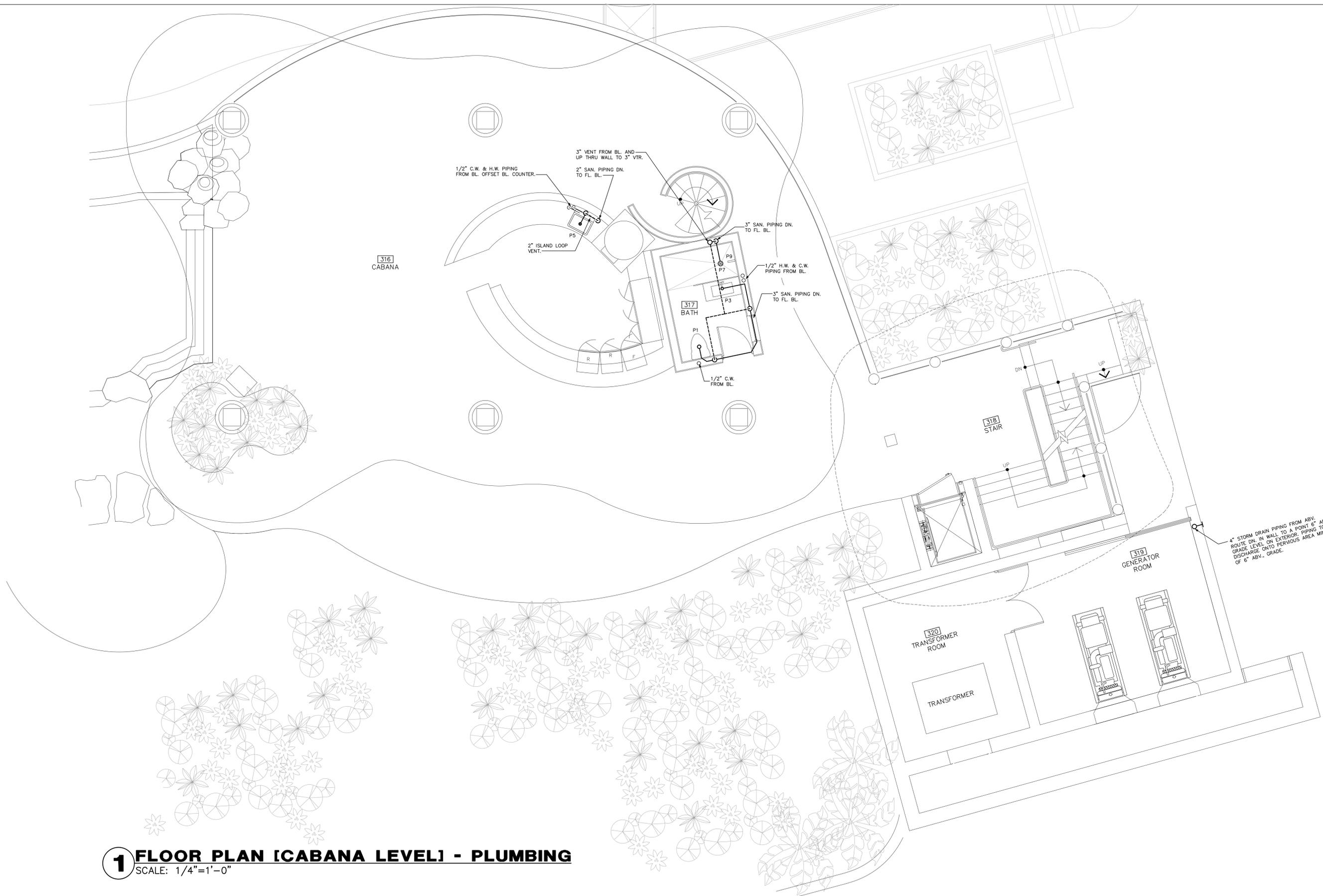
WASTE WATER TREATMENT TANK PUMP OUT PUMP SHALL BE A "GOULDS" PUMP MODEL M2P2A21C2B0 MARLOW SERIES PRIME LINE, SELF-PRIMING CENTRIFUGAL PUMP, RATED FOR 35 GPM @ 70' TDH, WITH A SUCTION PUMP LIFT CAPABILITY OF UP TO 22'. PUMP IS CLOSE COUPLED, 3HP, 3 PHASE, ODP MOTOR.

ALL PIPING IN THIS AREA SHALL BE COORDINATED WITH ALL MECHANICAL PIPING IN THIS AREA. CONTRACTOR SHALL COORDINATE PIPING AS REQUIRED. REFER TO SHEET M-6A FOR MECH. PIPING IN THIS AREA.



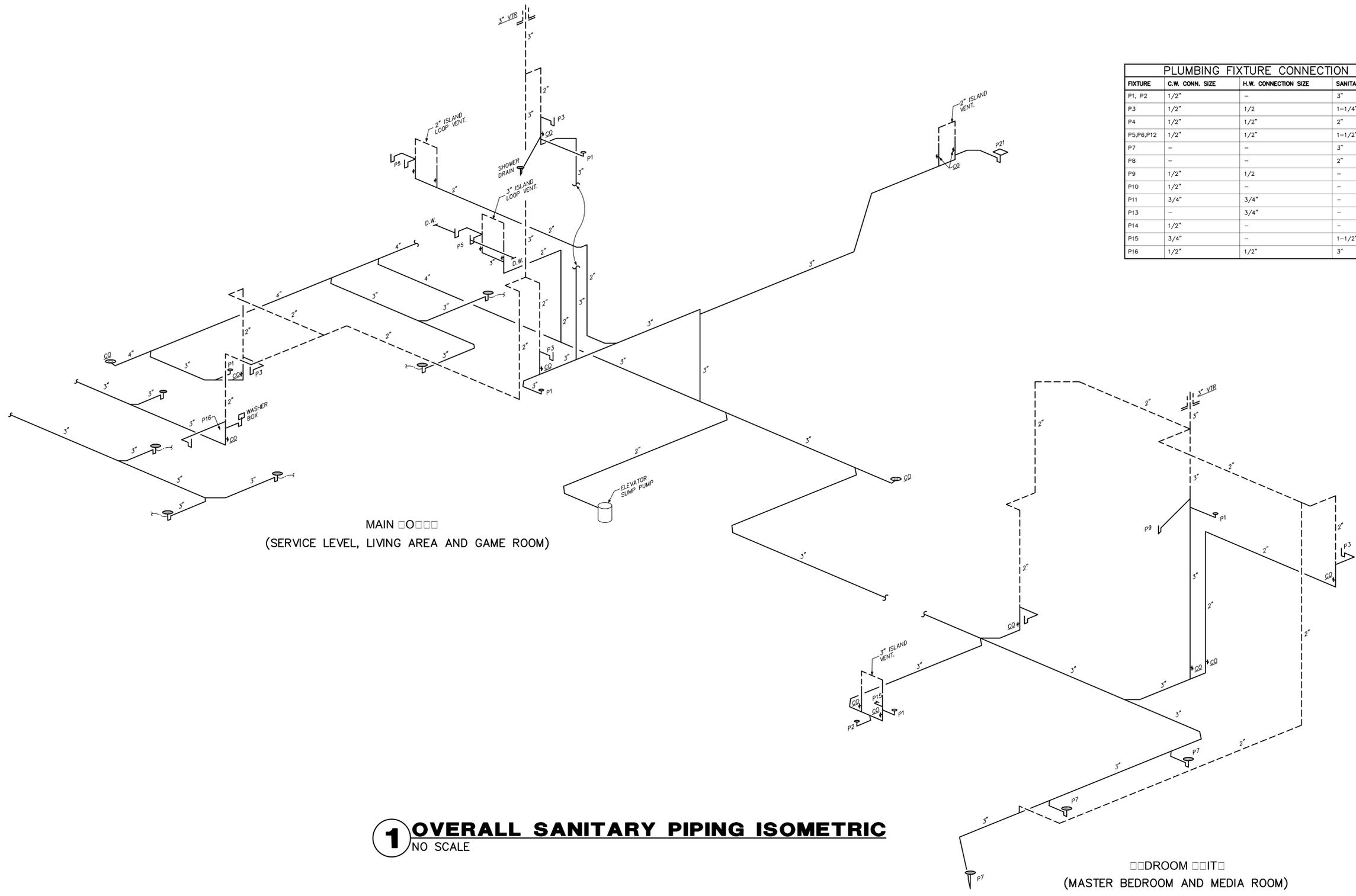
1 FLOOR PLAN [CAPTAIN'S QUARTER'S LEVEL] - PLUMBING
 SCALE: 1/4"=1'-0"

VOID SPACE BELOW
 GENERATORS/ELECTRICAL
 ROOMS



1 FLOOR PLAN [CABANA LEVEL] - PLUMBING

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

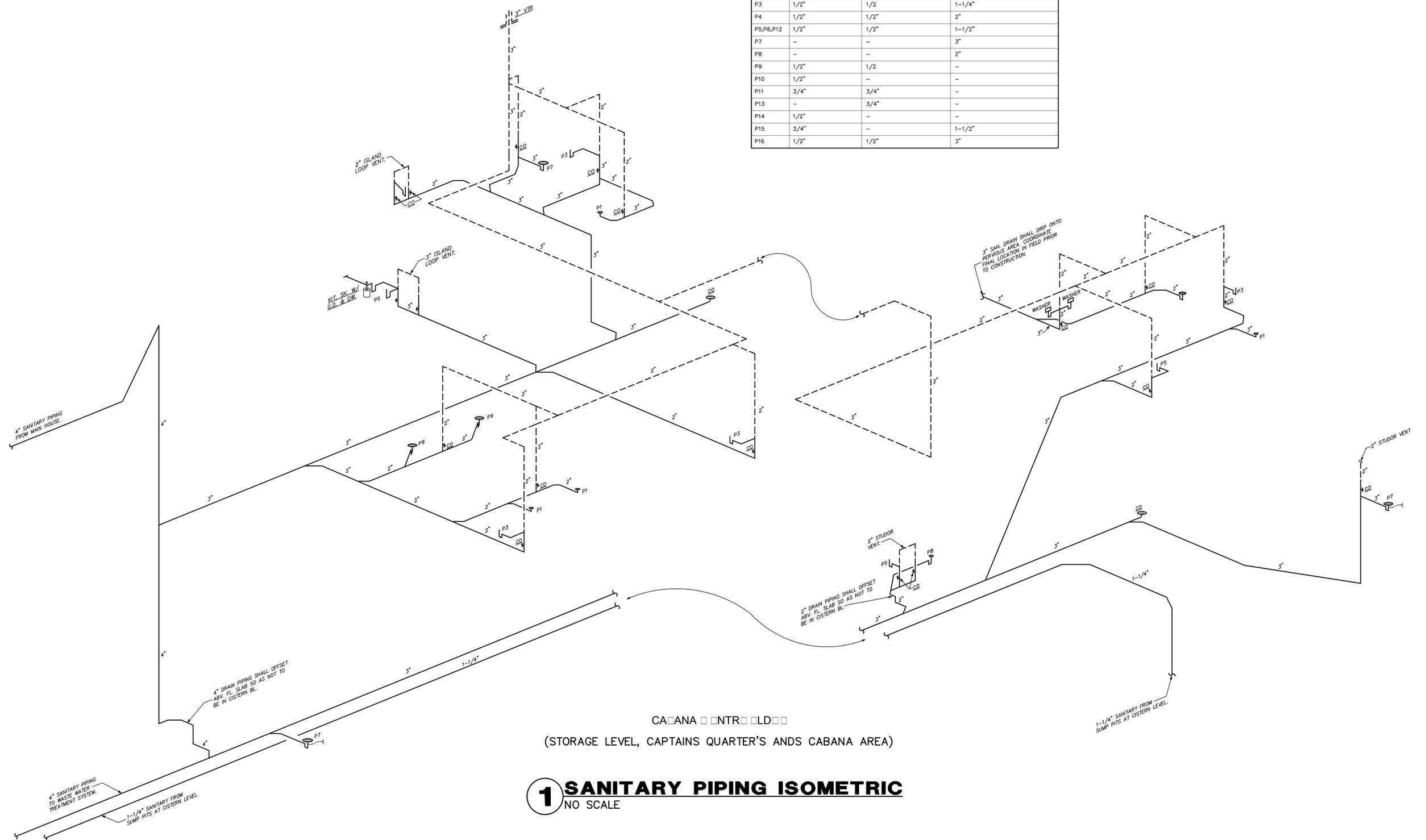


PLUMBING FIXTURE CONNECTION SIZES			
FIXTURE	C.W. CONN. SIZE	H.W. CONNECTION SIZE	SANITARY BRANCH SIZE
P1, P2	1/2"	-	3"
P3	1/2"	1/2	1-1/4"
P4	1/2"	1/2"	2"
P5,P6,P12	1/2"	1/2"	1-1/2"
P7	-	-	3"
P8	-	-	2"
P9	1/2"	1/2	-
P10	1/2"	-	-
P11	3/4"	3/4"	-
P13	-	3/4"	-
P14	1/2"	-	-
P15	3/4"	-	1-1/2"
P16	1/2"	1/2"	3"

1 OVERALL SANITARY PIPING ISOMETRIC
NO SCALE

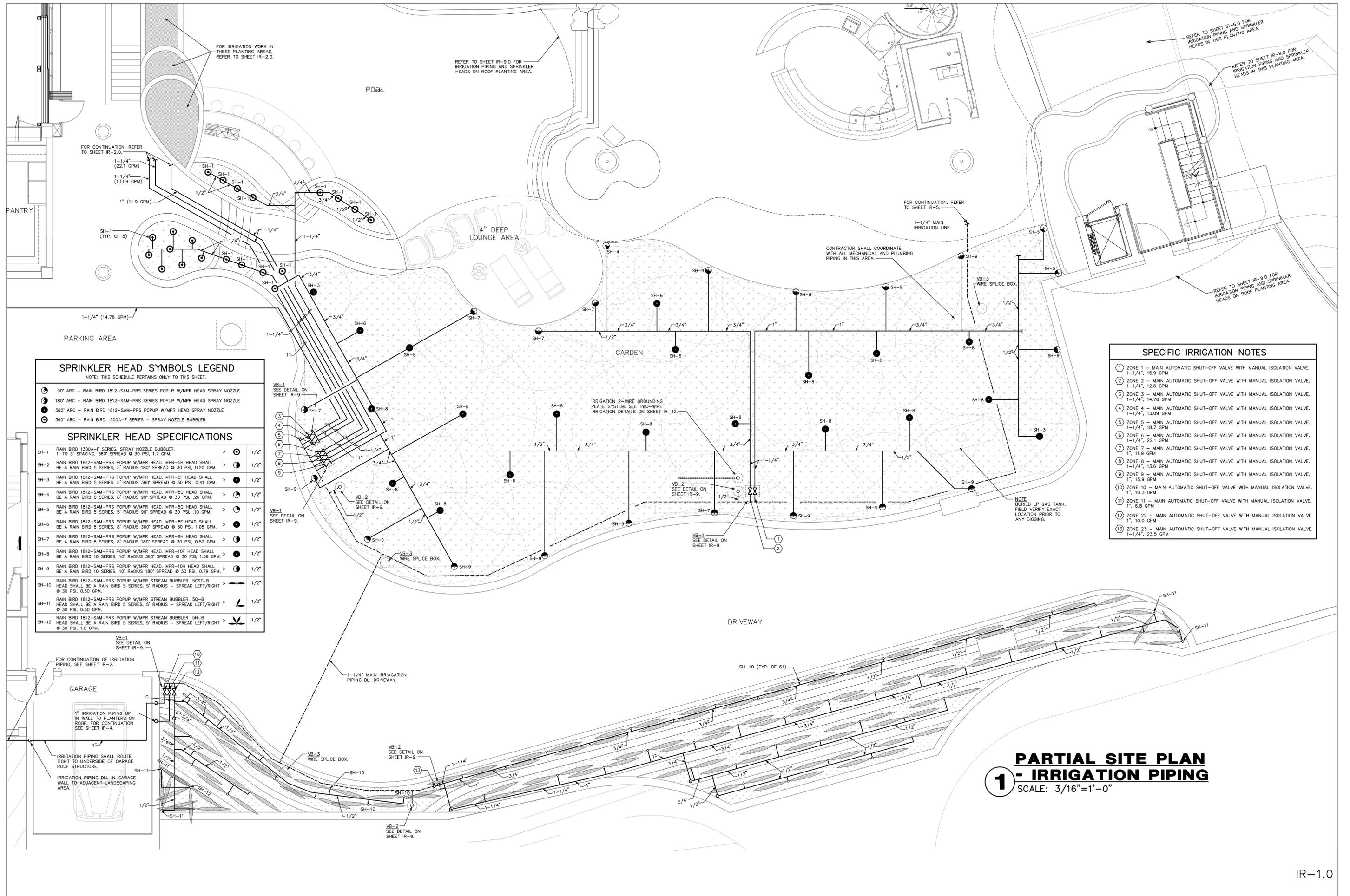
□□DROOM □□IT□
(MASTER BEDROOM AND MEDIA ROOM)

PLUMBING FIXTURE CONNECTION SIZES			
FIXTURE	C.W. CONN. SIZE	H.W. CONNECTION SIZE	SANITARY BRANCH SIZE
P1, P2	1/2"	-	3"
P3	1/2"	1/2"	1-1/4"
P4	1/2"	1/2"	2"
P5, P6, P12	1/2"	1/2"	1-1/2"
P7	-	-	3"
P8	-	-	2"
P9	1/2"	1/2"	-
P10	1/2"	-	-
P11	3/4"	3/4"	-
P13	-	3/4"	-
P14	1/2"	-	-
P15	3/4"	-	1-1/2"
P16	1/2"	1/2"	3"



CA□ANA □□NTR□□LD□□
 (STORAGE LEVEL, CAPTAINS QUARTER'S ANDS CABANA AREA)

1 SANITARY PIPING ISOMETRIC
 NO SCALE



SPRINKLER HEAD SYMBOLS LEGEND

NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.

- ① 90° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
- ② 180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
- ③ 360° ARC - RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD SPRAY NOZZLE
- ④ 360° ARC - RAIN BIRD 1300A-F SERIES - SPRAY NOZZLE BUBBLER

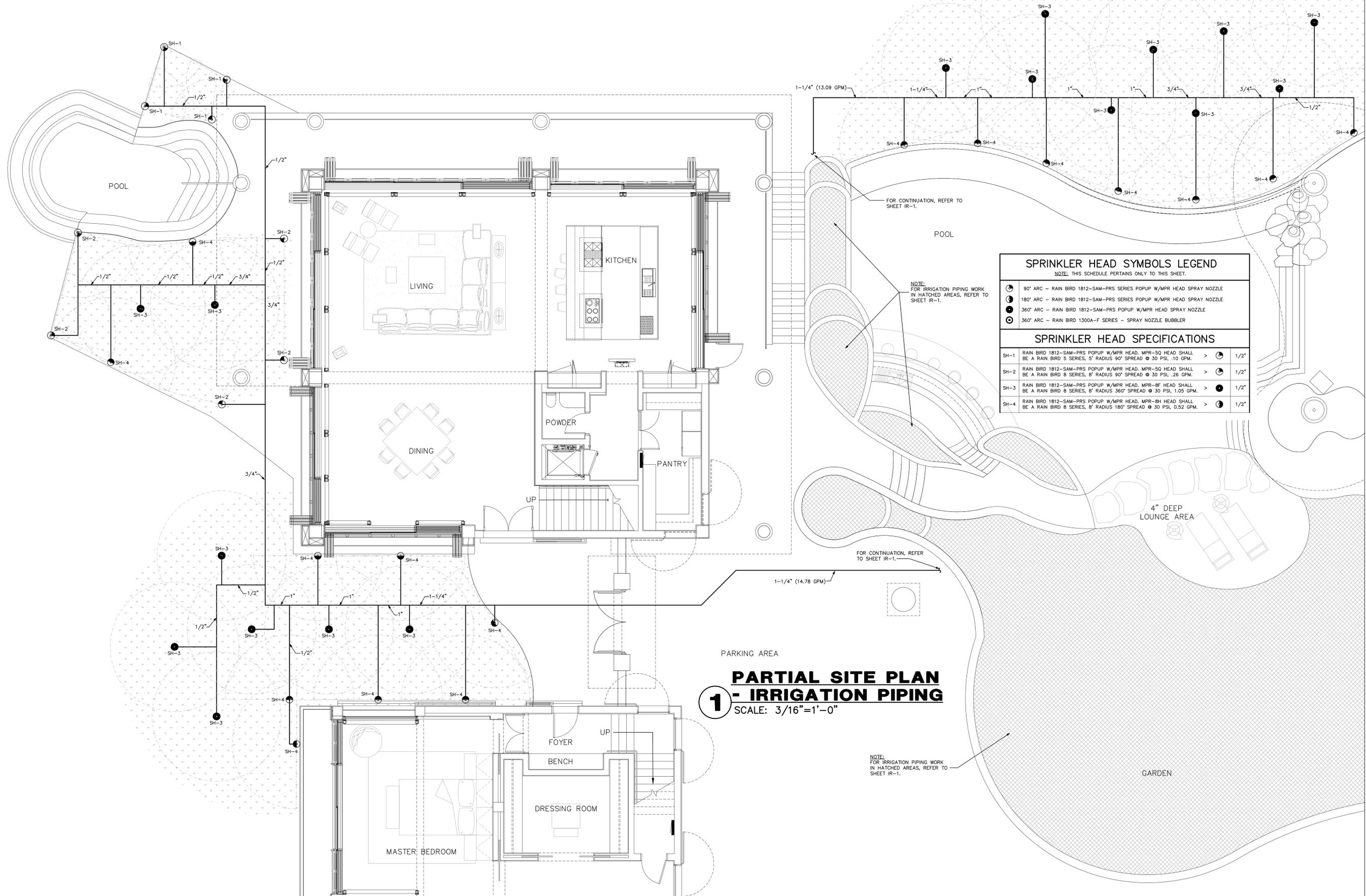
SPRINKLER HEAD SPECIFICATIONS

SH-1	RAIN BIRD 1300A-F SERIES, SPRAY NOZZLE BUBBLER, 1" TO 3" SPACING, 360° SPREAD @ 30 PSI, 1.7 GPM.	>	④	1/2"
SH-2	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-SH HEAD SHALL BE A RAIN BIRD 5 SERIES, 5" RADIUS 180° SPREAD @ 30 PSI, 0.20 GPM.	>	①	1/2"
SH-3	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-SF HEAD SHALL BE A RAIN BIRD 5 SERIES, 5" RADIUS 360° SPREAD @ 30 PSI, 0.41 GPM.	>	②	1/2"
SH-4	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-BQ HEAD SHALL BE A RAIN BIRD 8 SERIES, 8" RADIUS 90° SPREAD @ 30 PSI, .26 GPM.	>	③	1/2"
SH-5	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-SQ HEAD SHALL BE A RAIN BIRD 5 SERIES, 5" RADIUS 90° SPREAD @ 30 PSI, .10 GPM.	>	④	1/2"
SH-6	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-SQ HEAD SHALL BE A RAIN BIRD 8 SERIES, 8" RADIUS 360° SPREAD @ 30 PSI, 1.05 GPM.	>	③	1/2"
SH-7	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-SH HEAD SHALL BE A RAIN BIRD 8 SERIES, 8" RADIUS 180° SPREAD @ 30 PSI, 0.52 GPM.	>	①	1/2"
SH-8	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-10F HEAD SHALL BE A RAIN BIRD 10 SERIES, 10" RADIUS 360° SPREAD @ 30 PSI, 1.58 GPM.	>	②	1/2"
SH-9	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-10H HEAD SHALL BE A RAIN BIRD 10 SERIES, 10" RADIUS 180° SPREAD @ 30 PSI, 0.79 GPM.	>	③	1/2"
SH-10	RAIN BIRD 1812-SAM-PRS POPUP W/MPR STREAM BUBBLER, 5CST-B HEAD SHALL BE A RAIN BIRD 5 SERIES, 5" RADIUS - SPREAD LEFT/RIGHT @ 30 PSI, 0.50 GPM.	>	④	1/2"
SH-11	RAIN BIRD 1812-SAM-PRS POPUP W/MPR STREAM BUBBLER, 50-B HEAD SHALL BE A RAIN BIRD 5 SERIES, 5" RADIUS - SPREAD LEFT/RIGHT @ 30 PSI, 0.50 GPM.	>	④	1/2"
SH-12	RAIN BIRD 1812-SAM-PRS POPUP W/MPR STREAM BUBBLER, 5H-B HEAD SHALL BE A RAIN BIRD 5 SERIES, 5" RADIUS - SPREAD LEFT/RIGHT @ 30 PSI, 1.0 GPM.	>	④	1/2"

SPECIFIC IRRIGATION NOTES

- ① ZONE 1 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 15.9 GPM
- ② ZONE 2 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 12.6 GPM
- ③ ZONE 3 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 14.78 GPM
- ④ ZONE 4 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 13.09 GPM
- ⑤ ZONE 5 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 18.7 GPM
- ⑥ ZONE 6 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 22.1 GPM
- ⑦ ZONE 7 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 11.9 GPM
- ⑧ ZONE 8 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 13.6 GPM
- ⑨ ZONE 9 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 15.9 GPM
- ⑩ ZONE 10 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 10.3 GPM
- ⑪ ZONE 11 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 6.8 GPM
- ⑫ ZONE 22 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 10.0 GPM
- ⑬ ZONE 23 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 23.5 GPM

PARTIAL SITE PLAN
1 - IRRIGATION PIPING
 SCALE: 3/16"=1'-0"



SPRINKLER HEAD SYMBOLS LEGEND
NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.

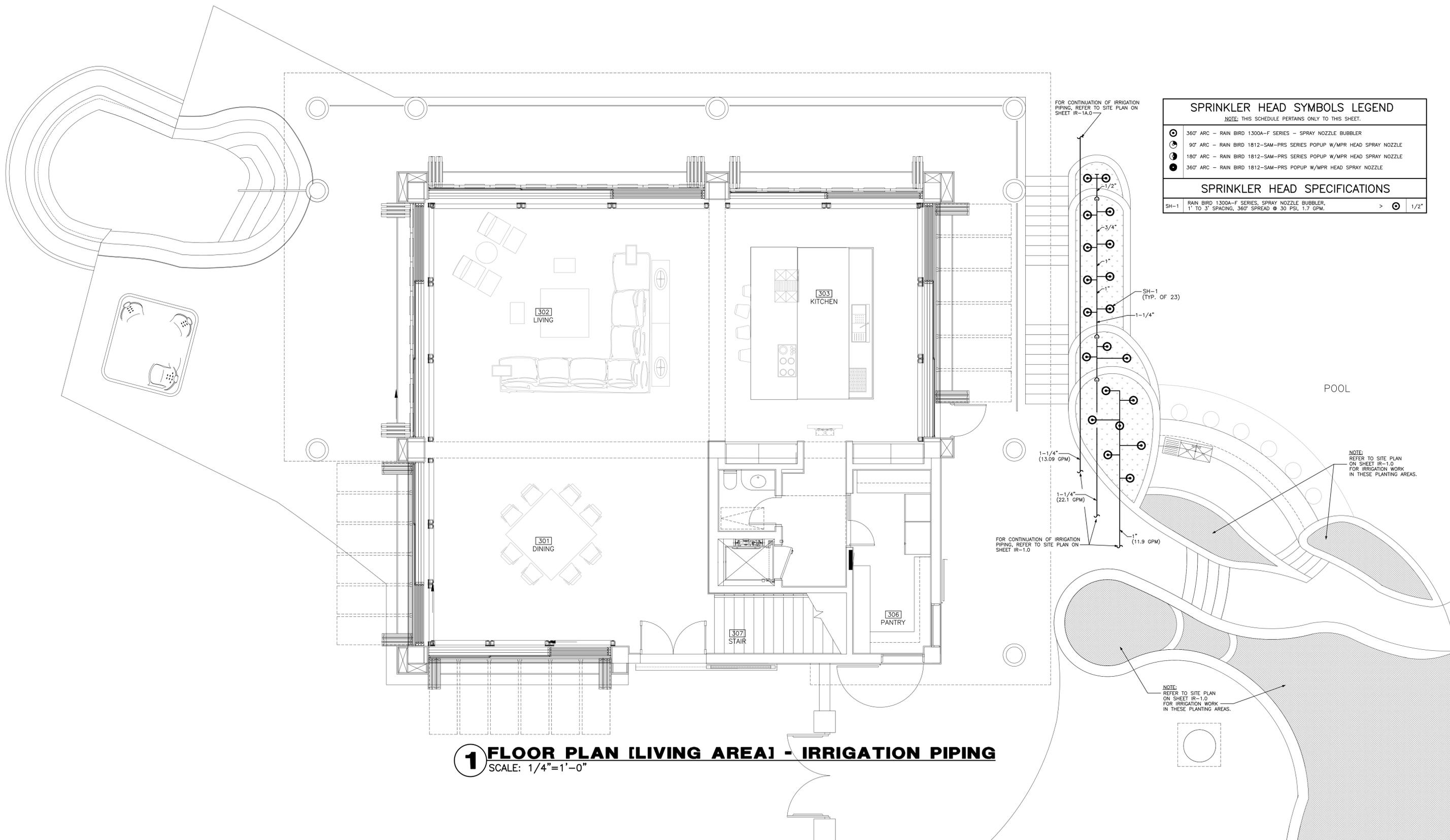
- ☉ 90° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
- ☉ 180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
- ☉ 360° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
- ☉ 360° ARC - RAIN BIRD 1300A-F SERIES - SPRAY NOZZLE BUBBLER

SPRINKLER HEAD SPECIFICATIONS

Symbol	Description	Flow Rate	Head	Radius	Spread	Pressure	GPM	Pipe Size
☉ (90°)	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-50 HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 90° SPREAD	30 PSI	1.0	5'	90°	30	1.0	1/2"
☉ (180°)	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-50 HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 90° SPREAD	30 PSI	1.0	8'	90°	30	1.0	1/2"
☉ (360°)	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-8F HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 360° SPREAD	30 PSI	1.05	8'	360°	30	1.05	1/2"
☉ (360°)	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-8H HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 180° SPREAD	30 PSI	0.52	8'	180°	30	0.52	1/2"

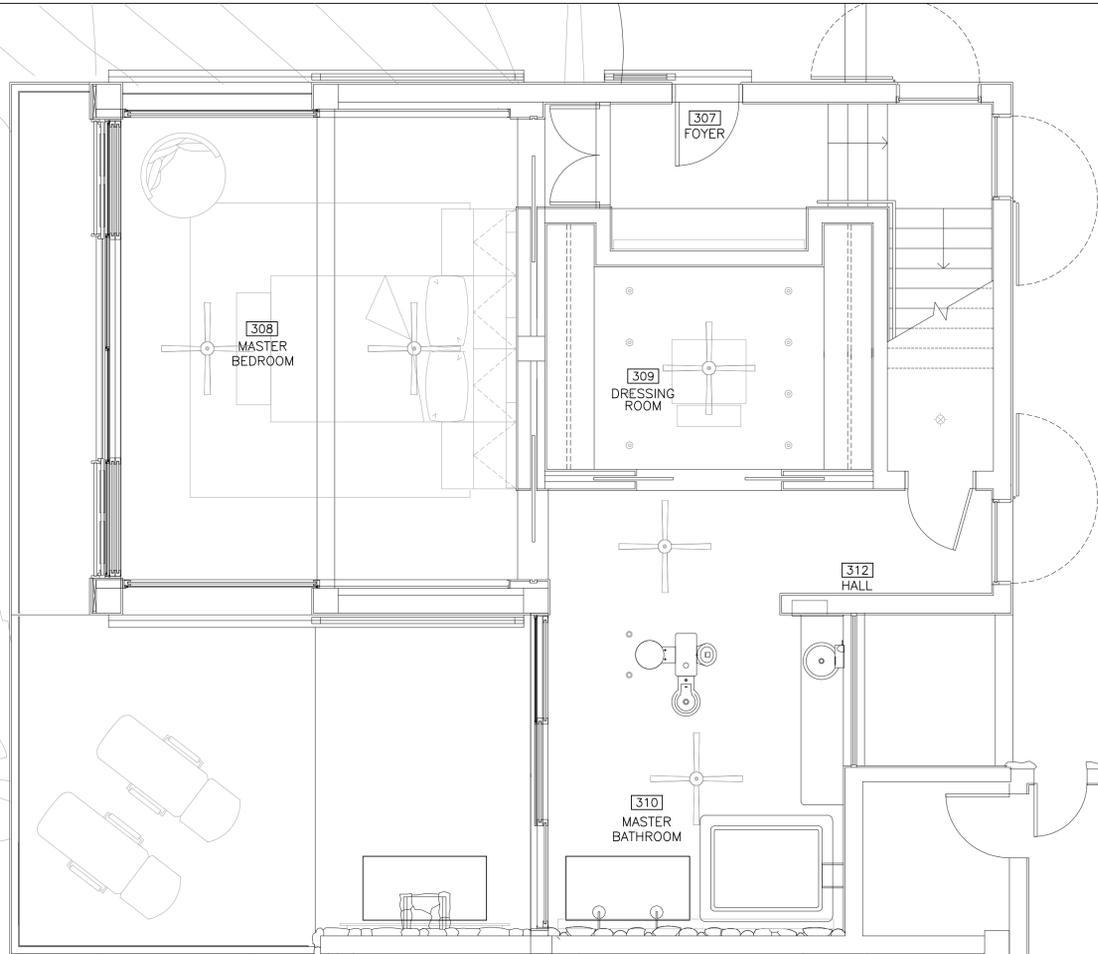
1 PARTIAL SITE PLAN - IRRIGATION PIPING
SCALE: 3/16"=1'-0"

NOTE: FOR IRRIGATION PIPING WORK IN HATCHED AREAS, REFER TO SHEET IR-1.

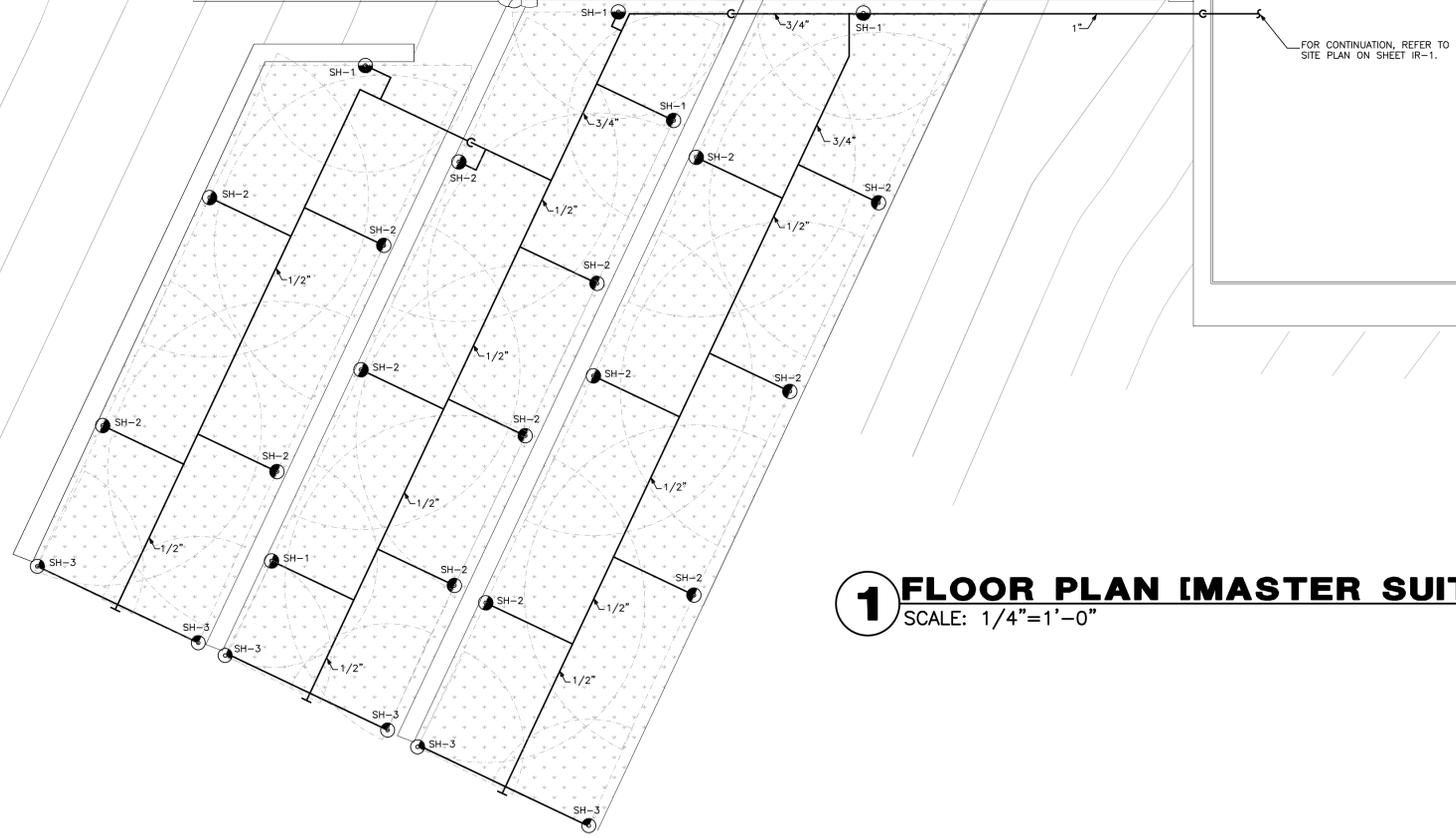


SPRINKLER HEAD SYMBOLS LEGEND	
NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.	
⊙	360° ARC - RAIN BIRD 1300A-F SERIES - SPRAY NOZZLE BUBBLER
⊙	90° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
⊙	180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
⊙	360° ARC - RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD SPRAY NOZZLE
SPRINKLER HEAD SPECIFICATIONS	
SH-1	RAIN BIRD 1300A-F SERIES, SPRAY NOZZLE BUBBLER, 1" TO 3" SPACING, 360° SPREAD @ 30 PSI, 1.7 GPM. > ⊙ 1/2"

1 FLOOR PLAN [LIVING AREA] - IRRIGATION PIPING
 SCALE: 1/4"=1'-0"



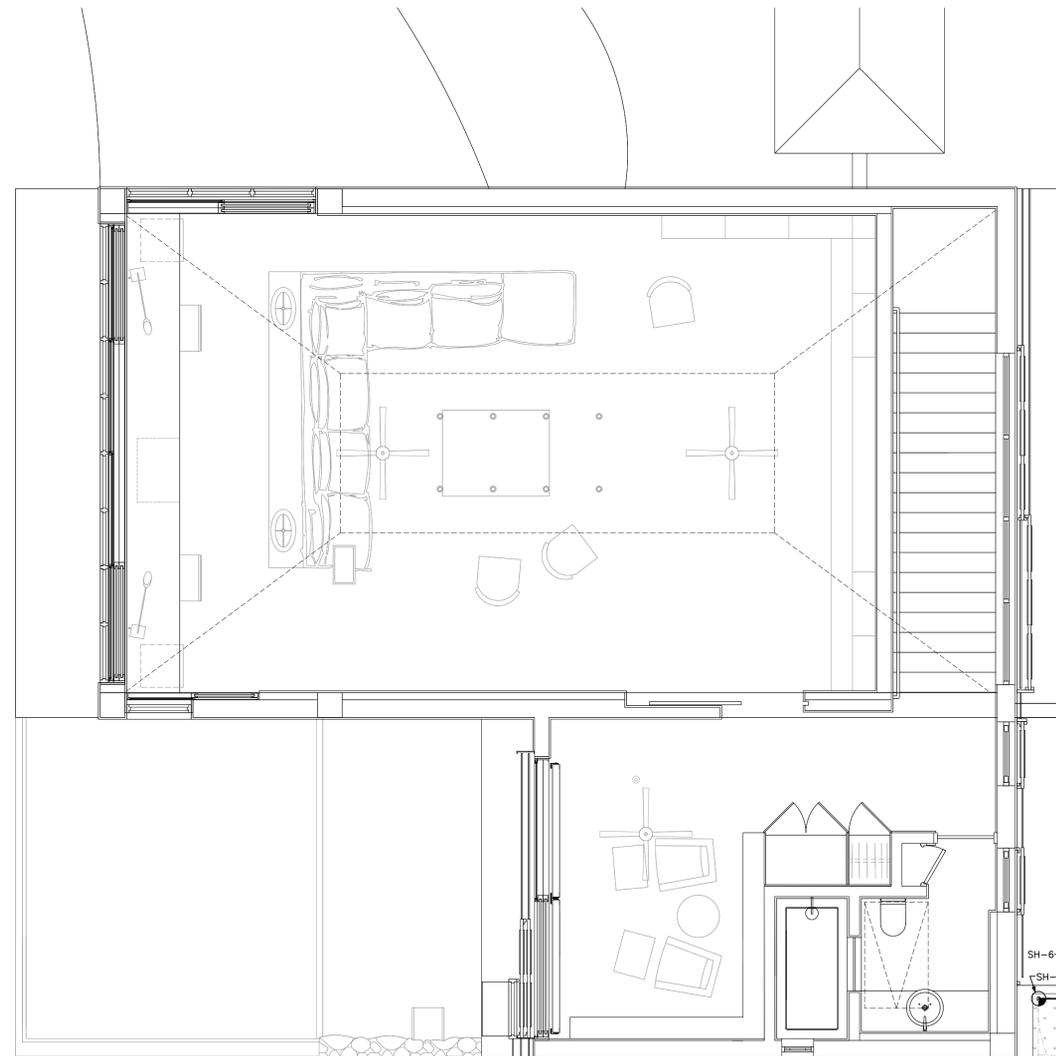
SPRINKLER HEAD SYMBOLS LEGEND			
NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.			
	90° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE		
	180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE		
SPRINKLER HEAD SPECIFICATIONS			
SH-1	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-5F HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 180° SPREAD @ 30 PSI, 0.41 GPM. >		1/2"
SH-2	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-8H HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 90° SPREAD @ 30 PSI, 0.52 GPM. >		1/2"
SH-3	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-5Q HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 90° SPREAD @ 30 PSI, 0.10 GPM. >		1/2"



FOR CONTINUATION, REFER TO SITE PLAN ON SHEET IR-1.

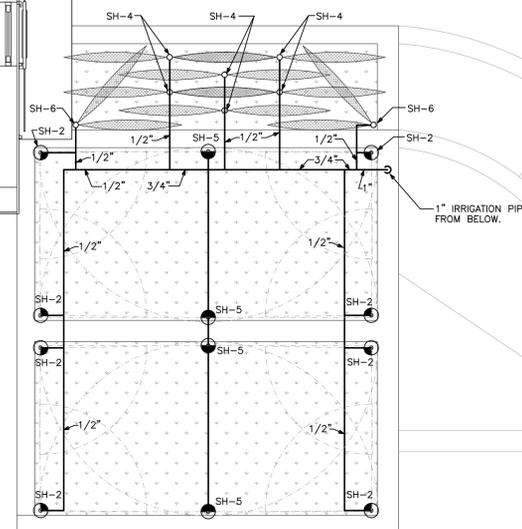
NOTE: REFER TO SITE PLAN ON SHEET IR-1.0 FOR IRRIGATION WORK IN THESE PLANTING AREAS.

1 FLOOR PLAN [MASTER SUITE] - IRRIGATION
SCALE: 1/4"=1'-0"

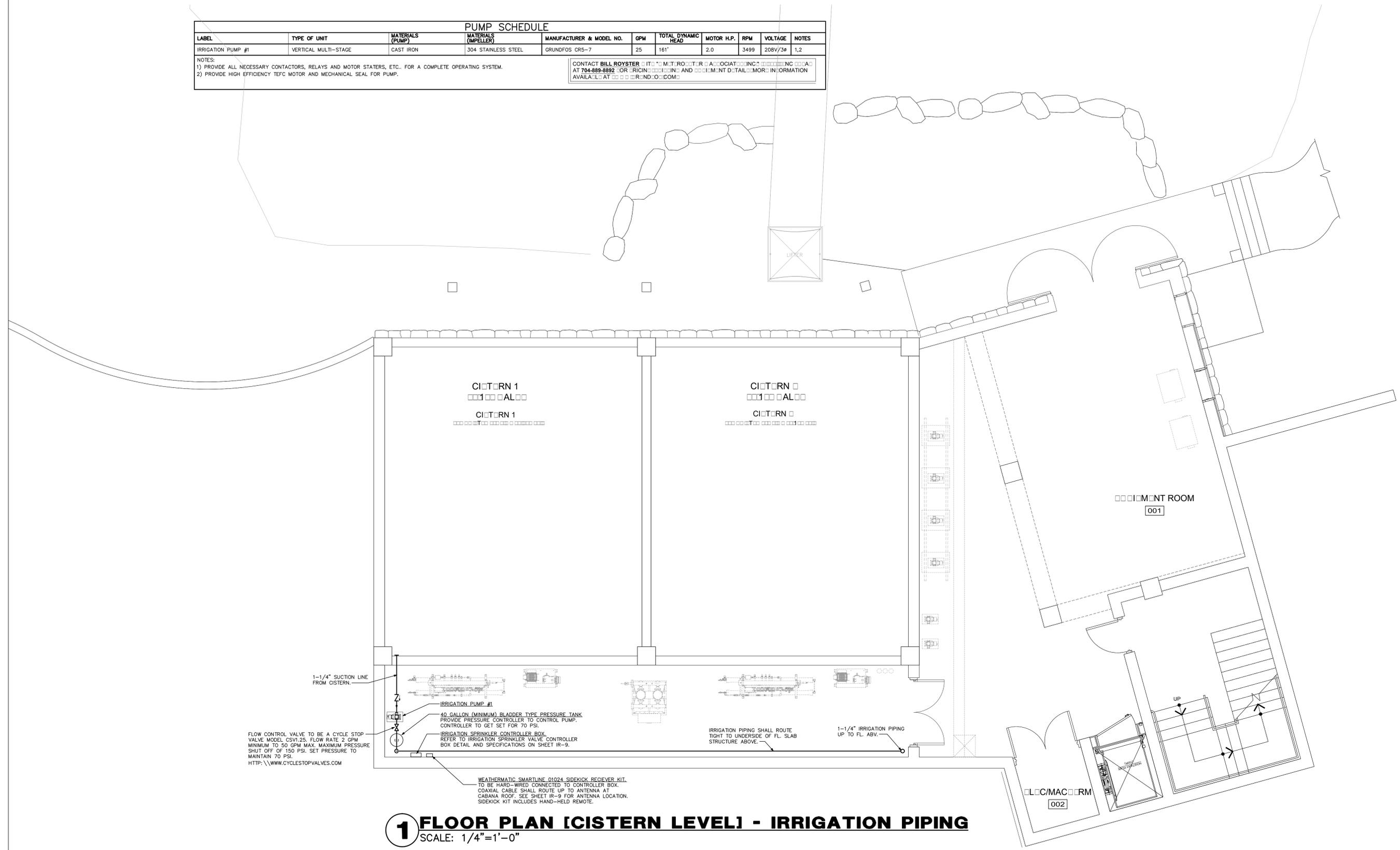


SPRINKLER HEAD SYMBOLS LEGEND		
NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.		
	90° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE	
	180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE	
	360° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE	
	360° ARC - RAIN BIRD 1300A-F SERIES - SPRAY NOZZLE BUBBLER	
SPRINKLER HEAD SPECIFICATIONS		
SH-1	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-10F HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 360° SPREAD @ 30 PSI, 0.41 GPM. >	1/2"
SH-2	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-5Q HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 90° SPREAD @ 30 PSI, 0.10 GPM. >	1/2"
SH-3	RAIN BIRD 1300A-F SERIES, SPRAY NOZZLE BUBBLER, 1" TO 3" SPACING, 360° SPREAD @ 30 PSI, 1.7 GPM. >	1/2"
SH-4	RAIN BIRD 1812-SAM-PRS POPUP W/MPR STREAM BUBBLER, SCST-B HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS - SPREAD LEFT/RIGHT @ 30 PSI, 0.50 GPM. >	1/2"
SH-5	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-8H HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 180° SPREAD @ 30 PSI, 0.52 GPM. >	1/2"
SH-6	RAIN BIRD 1812-SAM-PRS POPUP W/MPR STREAM BUBBLER, SQ-B HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS - SPREAD LEFT/RIGHT @ 30 PSI, 0.50 GPM. >	1/2"

1 FLOOR PLAN [MEDIA ROOM] - IRRIGATION PIPING
SCALE: 1/4"=1'-0"

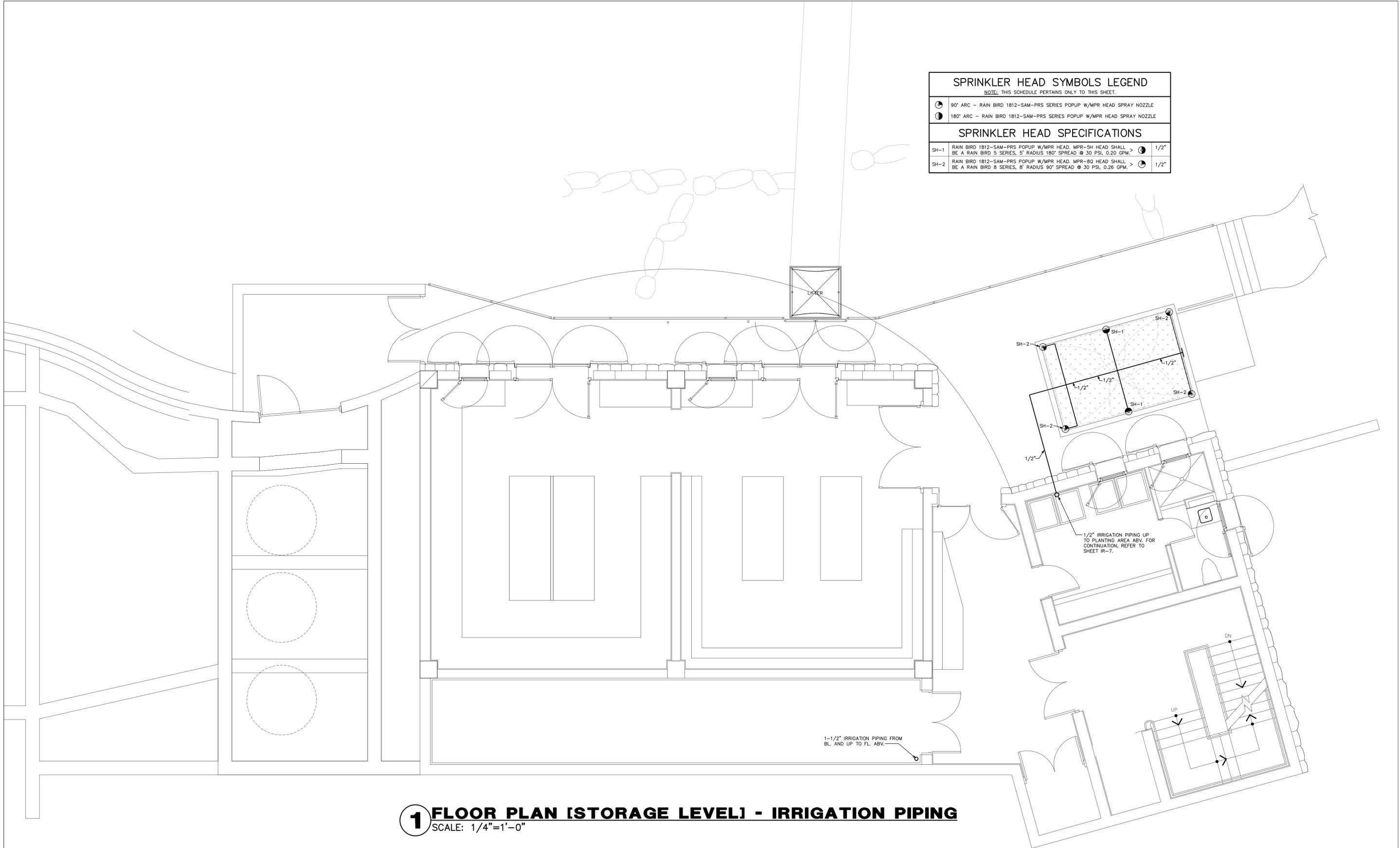


PUMP SCHEDULE										
LABEL	TYPE OF UNIT	MATERIALS (PUMP)	MATERIALS (IMPELLER)	MANUFACTURER & MODEL NO.	GPM	TOTAL DYNAMIC HEAD	MOTOR H.P.	RPM	VOLTAGE	NOTES
IRRIGATION PUMP #1	VERTICAL MULTI-STAGE	CAST IRON	304 STAINLESS STEEL	GRUNDFOS CR5-7	25	161'	2.0	3499	208V/3ø	1,2
NOTES:				CONTACT BILL ROYSTER AT 794-889-8892 FOR PRICING AND COMPONENT DETAIL INFORMATION AVAILABLE AT WWW.CYCLESTOPVALVES.COM						
1) PROVIDE ALL NECESSARY CONTACTORS, RELAYS AND MOTOR STATERS, ETC., FOR A COMPLETE OPERATING SYSTEM.										
2) PROVIDE HIGH EFFICIENCY TEFC MOTOR AND MECHANICAL SEAL FOR PUMP.										

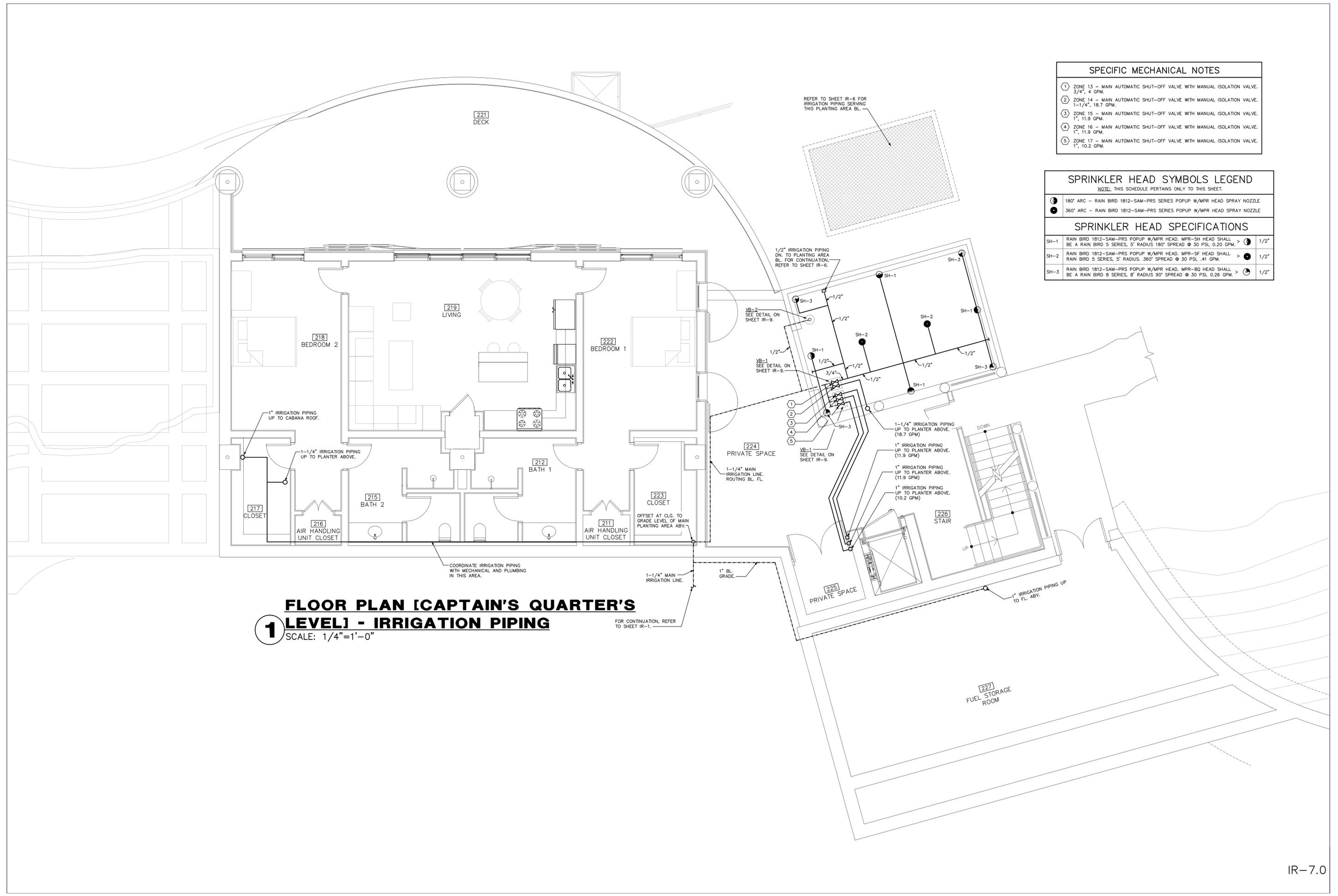


1 FLOOR PLAN [CISTERN LEVEL] - IRRIGATION PIPING
 SCALE: 1/4"=1'-0"

SPRINKLER HEAD SYMBOLS LEGEND			
NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.			
	90° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/M/R HEAD SPRAY NOZZLE		
	180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/M/R HEAD SPRAY NOZZLE		
SPRINKLER HEAD SPECIFICATIONS			
SH-1	RAIN BIRD 1812-SAM-PRS POPUP W/M/R HEAD, MPR-5H HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 180° SPREAD @ 30 PSI, 0.20 GPM. >		1/2"
SH-2	RAIN BIRD 1812-SAM-PRS POPUP W/M/R HEAD, MPR-8Q HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 90° SPREAD @ 30 PSI, 0.26 GPM. >		1/2"



1 FLOOR PLAN [STORAGE LEVEL] - IRRIGATION PIPING
 SCALE: 1/4"=1'-0"

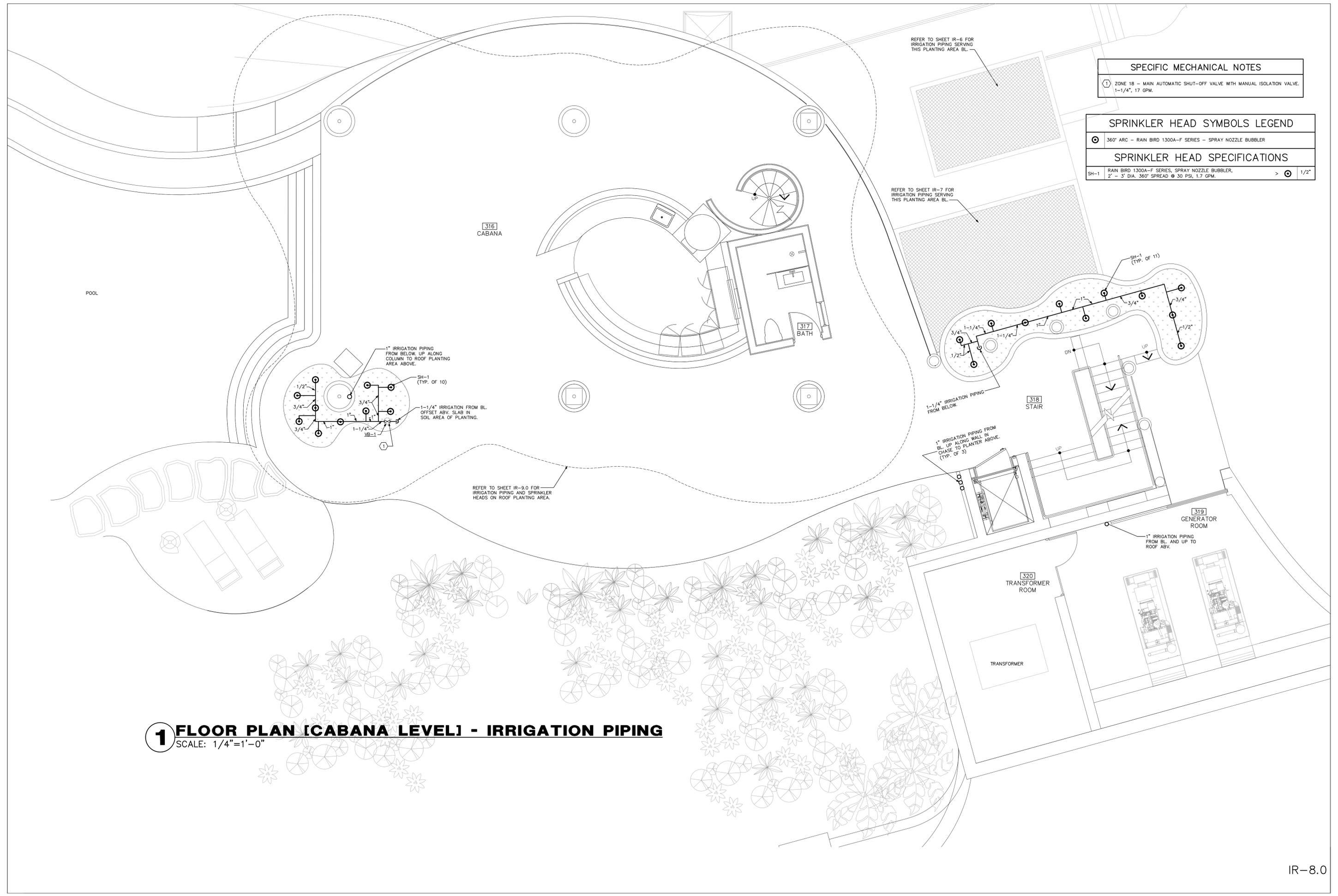


SPECIFIC MECHANICAL NOTES	
①	ZONE 13 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 3/4", 4 GPM.
②	ZONE 14 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 18.7 GPM.
③	ZONE 15 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 11.9 GPM.
④	ZONE 16 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 11.9 GPM.
⑤	ZONE 17 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 10.2 GPM.

SPRINKLER HEAD SYMBOLS LEGEND	
NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.	
③	180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
④	360° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE

SPRINKLER HEAD SPECIFICATIONS	
SH-1	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD. MPR-SH HEAD SHALL BE A RAIN BIRD 5 SERIES, 5" RADIUS 180° SPREAD @ 30 PSI, 0.20 GPM. > 1/2"
SH-2	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD. MPR-SF HEAD SHALL BE A RAIN BIRD 5 SERIES, 5" RADIUS, 360° SPREAD @ 30 PSI, .41 GPM. > 1/2"
SH-3	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD. MPR-BQ HEAD SHALL BE A RAIN BIRD 8 SERIES, 8" RADIUS 90° SPREAD @ 30 PSI, 0.26 GPM. > 1/2"

1 FLOOR PLAN [CAPTAIN'S QUARTER'S LEVEL] - IRRIGATION PIPING
 SCALE: 1/4"=1'-0"

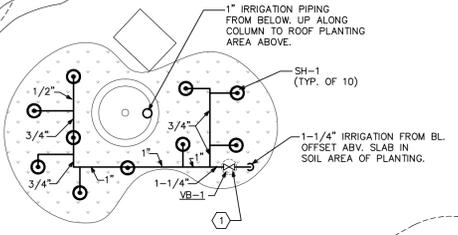


REFER TO SHEET IR-6 FOR IRRIGATION PIPING SERVING THIS PLANTING AREA BL.

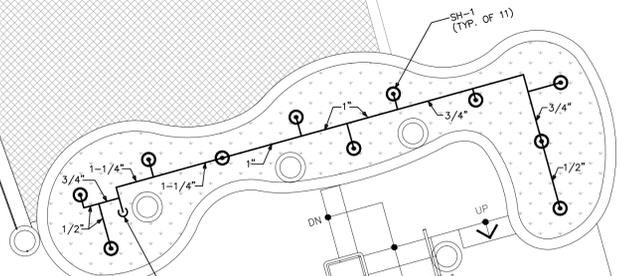
REFER TO SHEET IR-7 FOR IRRIGATION PIPING SERVING THIS PLANTING AREA BL.

SPECIFIC MECHANICAL NOTES	
①	ZONE 18 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1-1/4", 17 GPM.

SPRINKLER HEAD SYMBOLS LEGEND	
⊙	360° ARC - RAIN BIRD 1300A-F SERIES - SPRAY NOZZLE BUBBLER
SPRINKLER HEAD SPECIFICATIONS	
SH-1	RAIN BIRD 1300A-F SERIES, SPRAY NOZZLE BUBBLER, 2" - 3" DIA., 360° SPREAD @ 30 PSI, 1.7 GPM. > ⊙ 1/2"



REFER TO SHEET IR-9.0 FOR IRRIGATION PIPING AND SPRINKLER HEADS ON ROOF PLANTING AREA.



1" IRRIGATION PIPING FROM BL. UP ALONG WALL IN CHASE TO PLANTER ABOVE. (TYP. OF 3)

1" IRRIGATION PIPING FROM BL. AND UP TO ROOF ABV.

1 FLOOR PLAN [CABANA LEVEL] - IRRIGATION PIPING
SCALE: 1/4"=1'-0"

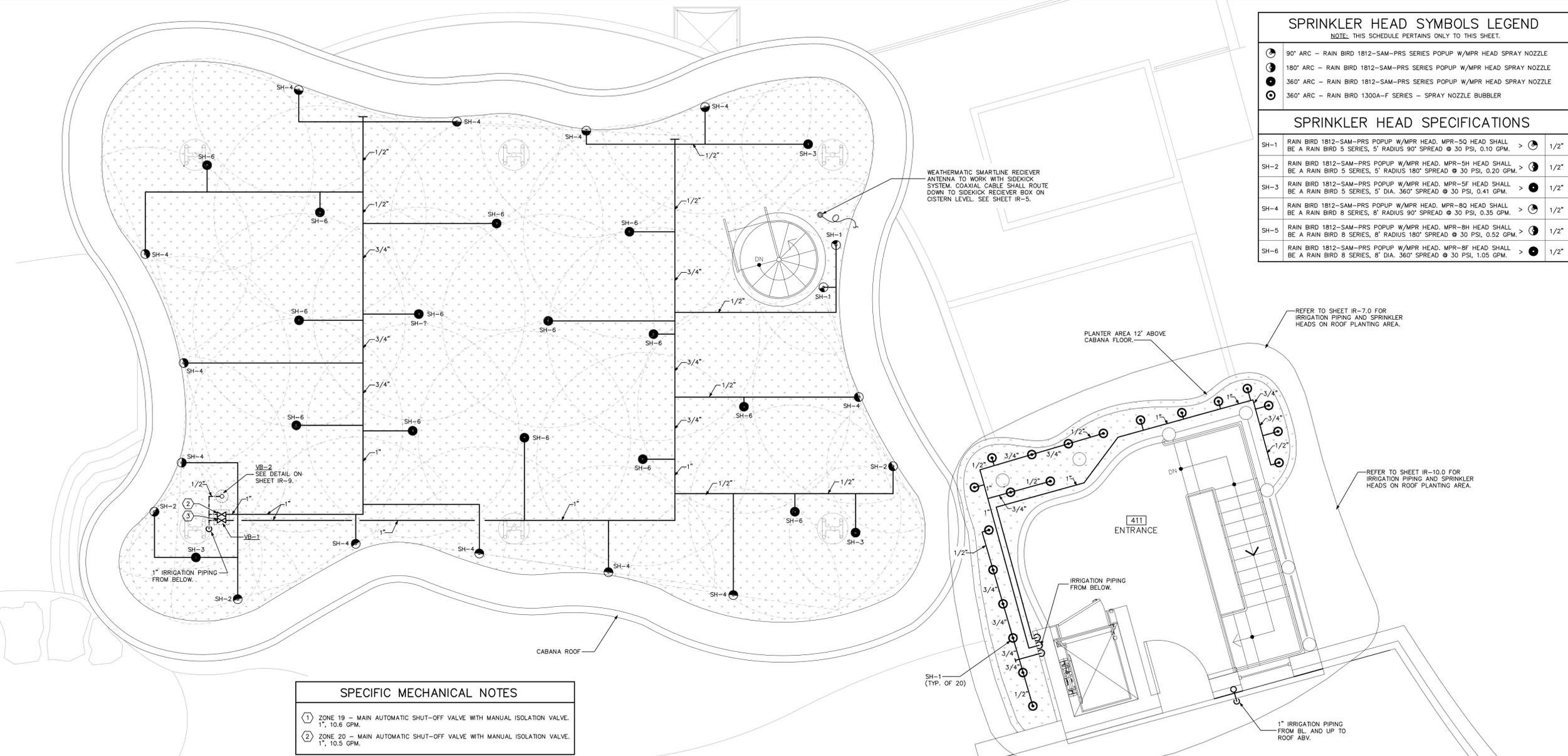
SPRINKLER HEAD SYMBOLS LEGEND

NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.

- 90° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
- 180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
- 360° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
- 360° ARC - RAIN BIRD 1300A-F SERIES - SPRAY NOZZLE BUBBLER

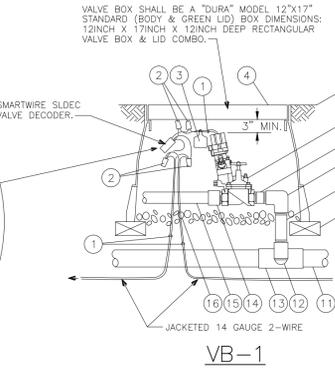
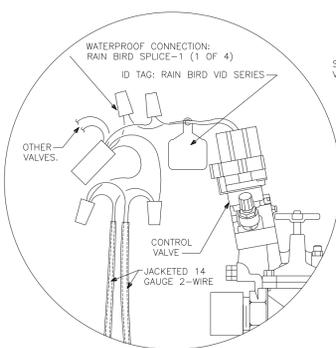
SPRINKLER HEAD SPECIFICATIONS

SH-1	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-5G HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 90° SPREAD @ 30 PSI, 0.10 GPM.	> 90°	1/2"
SH-2	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-SH HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 180° SPREAD @ 30 PSI, 0.20 GPM.	> 180°	1/2"
SH-3	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-SF HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' DIA. 360° SPREAD @ 30 PSI, 0.41 GPM.	> 360°	1/2"
SH-4	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-BG HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 90° SPREAD @ 30 PSI, 0.35 GPM.	> 90°	1/2"
SH-5	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-BH HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 180° SPREAD @ 30 PSI, 0.52 GPM.	> 180°	1/2"
SH-6	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-BF HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' DIA. 360° SPREAD @ 30 PSI, 1.05 GPM.	> 360°	1/2"



SPECIFIC MECHANICAL NOTES

- 1 ZONE 19 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE, 1", 10.6 GPM.
- 2 ZONE 20 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE, 1", 10.5 GPM.



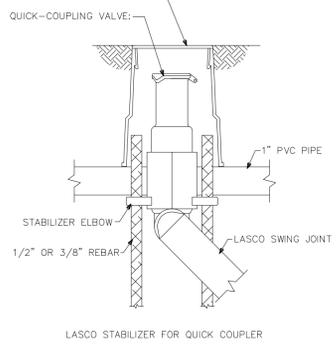
NOTE:
AUTOMATIC ELECTRIC VALVE SHALL BE A "RAIN BIRD" PESB SERIES. AUTOMATIC VALVE SHALL BE INTERLOCKED WITH ZONE CONTROLLER AT PUMP. SEE SHEET IR-3.
* http://www.rainbird.com/landscape/products/valves/pesb_series.htm

NOTE:
EACH AUTOMATIC VALVE SHALL BE SUPPLIED WITH A VALVE DECODER. VALVE DECODER SHALL BE A "WEATHERMATIC" SMARTWIRE MODEL SLDECI FOR ONE VALVE OPERATION. DECODER SHALL BE INSTALLED IN VALVE BOX AND SHALL BE ONE DECODER FOR EACH VALVE. FOR TECHNICAL SPECIFICATIONS SEE THIS PAGE HERE:
* <http://weathermatic.com/index.cfm?page=SmartWire%202-Wire%20System>

AUTOMATIC ELECTRIC ZONE VALVE AND VALVE BOX DETAIL FOR IRRIGATION
NO SCALE

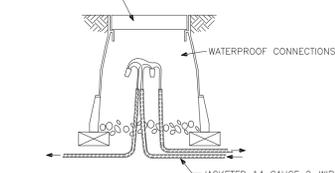
- 1 18-INCH LINEAR LENGTH OF WIRE COILED
- 2 WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
- 3 ID TAG: RAIN BIRD VID SERIES
- 4 VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 5 FINISH GRADE/TOP OF MULCH
- 6 REMOTE CONTROL VALVE: RAIN BIRD PESB
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10 BRICK (1 OF 4)
- 11 PVC MAINLINE PIPE
- 12 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- 13 PVC SCH 40 TEE OR ELL
- 14 PVC SCH 40 MALE ADAPTER
- 15 PVC LATERAL PIPE
- 16 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

VALVE BOX SHALL BE A "DURA" MODEL 10" STANDARD (BODY & GREEN LID) BOX DIMENSIONS: 12INCH ROUND.



QUICK COUPLING VALVE DETAIL
NO SCALE

VALVE BOX SHALL BE A "DURA" MODEL 10" STANDARD (BODY & GREEN LID) BOX DIMENSIONS: 12INCH ROUND.

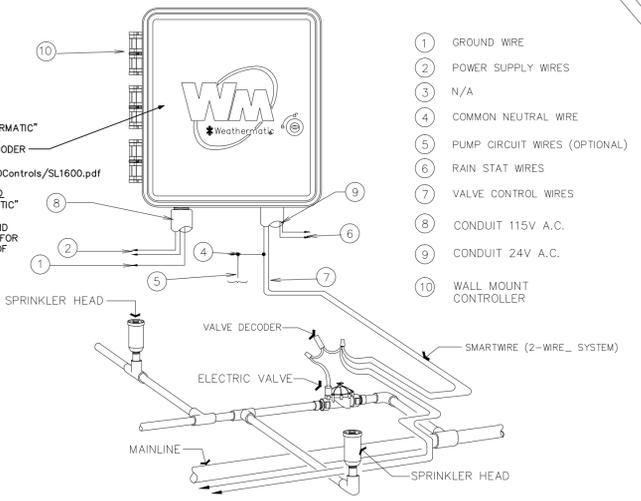


WIRE SPLICE BOX DETAIL
NO SCALE

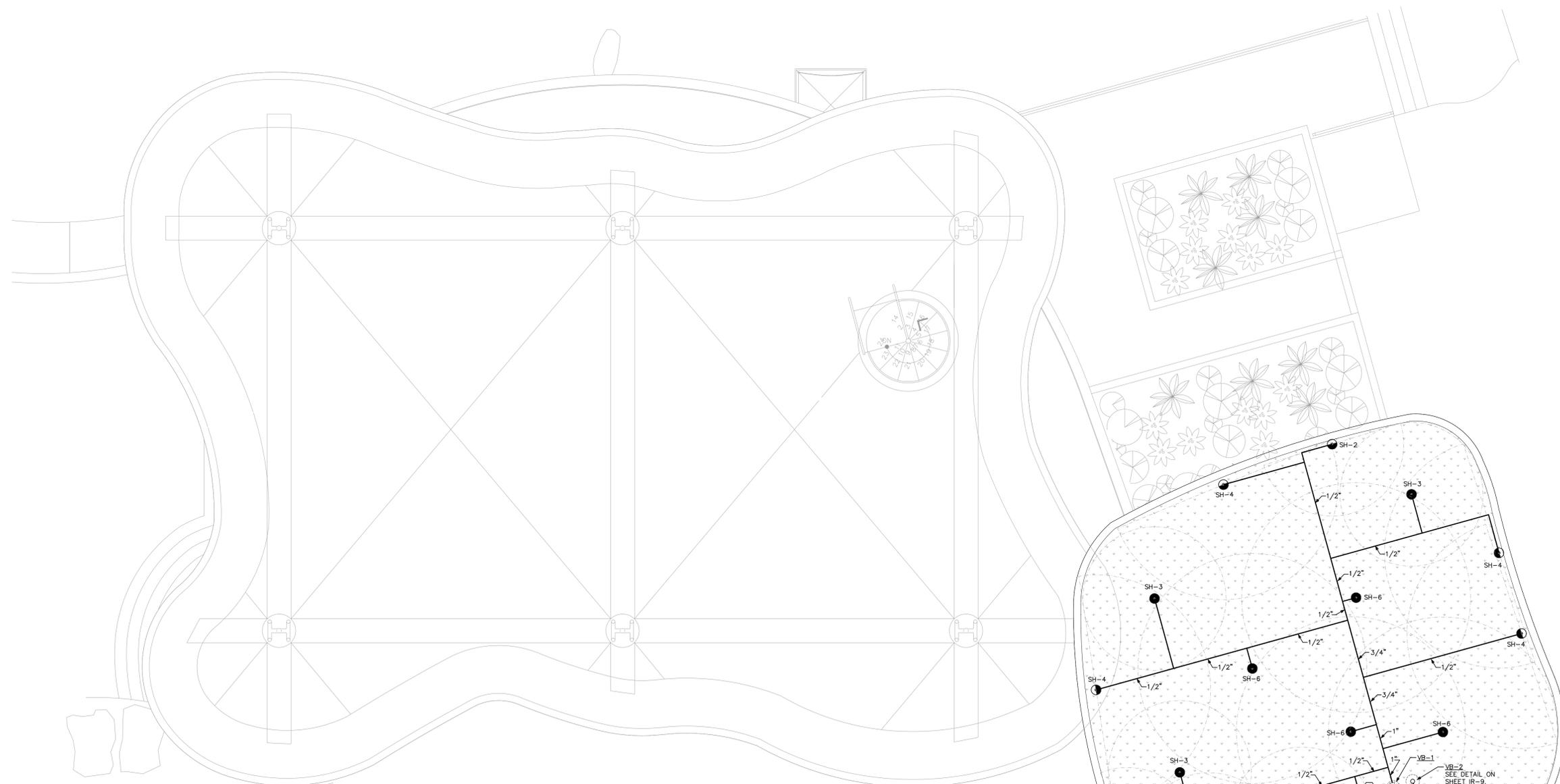
NOTE:
IRRIGATION SPRINKLER CONTROLLER BOX SHALL BE A "WEATHERMATIC" SMARTLINE CONTROLLER MODEL SL1600, 12-ZONE BASE MODEL EXPANDABLE TO 48 ZONES USING SMARTWIRE SLMSDM - DECODER MODULE FOR A 2-WIRE SYSTEM. SEE TECHNICAL SPECS HERE:
* <http://www.weathermatic.com/files/Specifications/Smart%20Controls/SL1600.pdf>

* CONTROL BOX SHALL BE PROVIDED WITH WIRELESS HANDHELD REMOTE CONTROL. REMOTE CONTROL SHALL BE A "WEATHERMATIC" SMARTLINE "SIDEKICK" HANDHELD REMOTE CONTROL SYSTEM. SYSTEM INCLUDES HANDHELD REMOTE, RECEIVER BASE UNIT AND RECEIVER ANTENNA AT CABANA ROOF. REFER TO SHEET IR-5 FOR LOCATION OF RECEIVER UNIT AND THIS SHEET FOR LOCATION OF ANTENNA.

NOTE:
REFER TO IRRIGATION CONTROL WIRING ISOMETRIC ON SHEET IR-11 FOR ROUTING OF CONTROL WIRING.



(SL1600 SERIES CONTROLLER) IRRIGATION SPRINKLER VALVE CONTROLLER BOX DETAIL
NO SCALE



SPRINKLER HEAD SYMBOLS LEGEND
NOTE: THIS SCHEDULE PERTAINS ONLY TO THIS SHEET.

	90° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
	180° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
	360° ARC - RAIN BIRD 1812-SAM-PRS SERIES POPUP W/MPR HEAD SPRAY NOZZLE
	360° ARC - RAIN BIRD 1300A-F SERIES - SPRAY NOZZLE BUBBLER

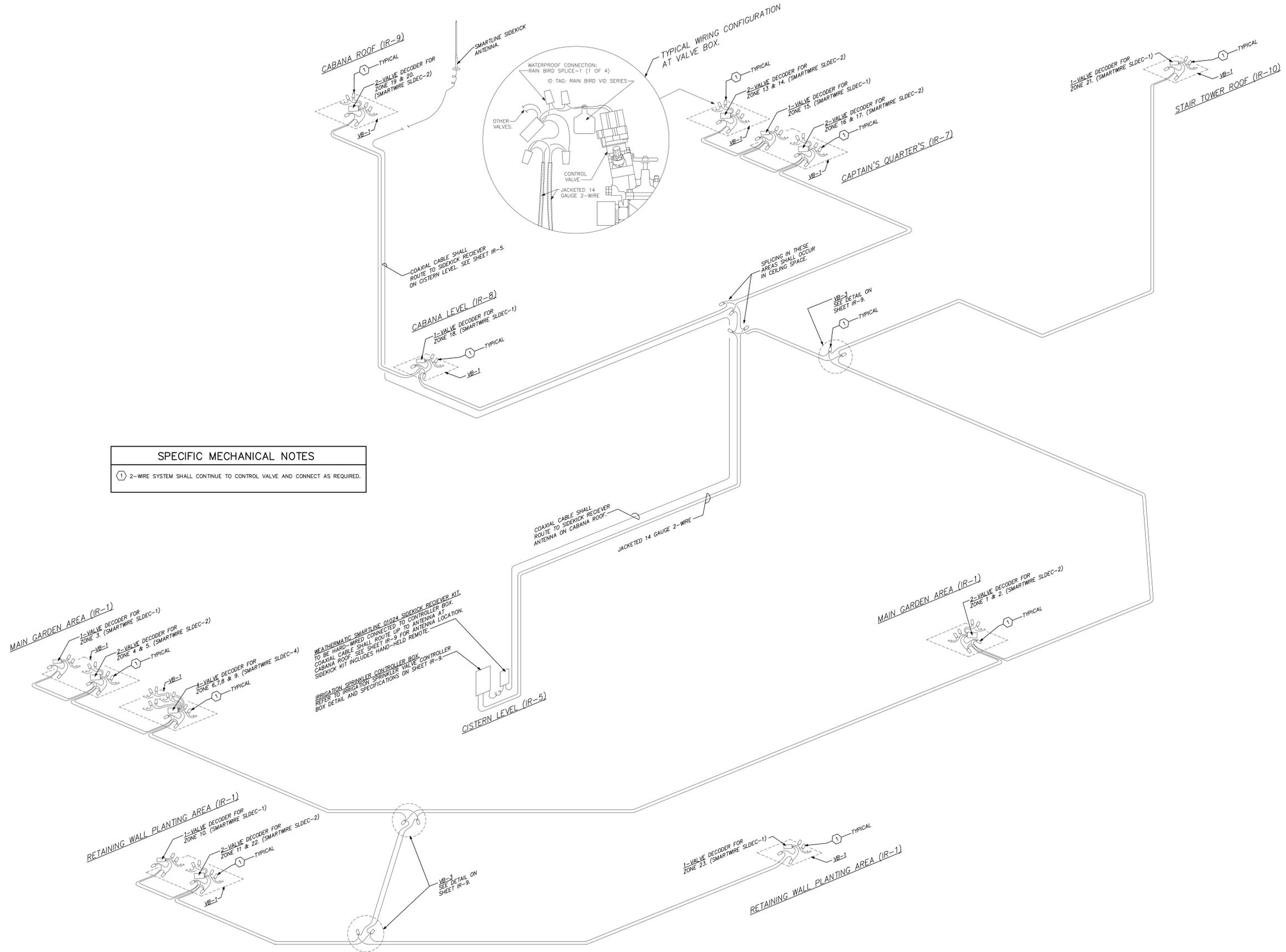
SPRINKLER HEAD SPECIFICATIONS

Symbol	Specification	Size
	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-5Q HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 90° SPREAD @ 30 PSI, 0.10 GPM.	1/2"
	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-5H HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' RADIUS 180° SPREAD @ 30 PSI, 0.20 GPM.	1/2"
	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-5F HEAD SHALL BE A RAIN BIRD 5 SERIES, 5' DIA. 360° SPREAD @ 30 PSI, 0.41 GPM.	1/2"
	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-8Q HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 90° SPREAD @ 30 PSI, 0.35 GPM.	1/2"
	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-8H HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' RADIUS 180° SPREAD @ 30 PSI, 0.52 GPM.	1/2"
	RAIN BIRD 1812-SAM-PRS POPUP W/MPR HEAD, MPR-8F HEAD SHALL BE A RAIN BIRD 8 SERIES, 8' DIA. 360° SPREAD @ 30 PSI, 1.05 GPM.	1/2"

SPECIFIC MECHANICAL NOTES

1 ZONE 21 - MAIN AUTOMATIC SHUT-OFF VALVE WITH MANUAL ISOLATION VALVE. 1", 8.6 GPM.

1 FLOOR PLAN [STAIR TOWER ROOF LEVEL] - IRRIGATION PIPING
SCALE: 1/4"=1'-0"

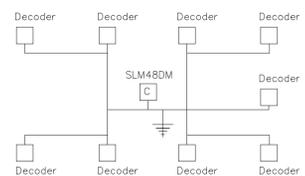


SPECIFIC MECHANICAL NOTES

① 2-WIRE SYSTEM SHALL CONTINUE TO CONTROL VALVE AND CONNECT AS REQUIRED.

1 IRRIGATION CONTROL WIRING ISOMETRIC
NO SCALE

Star (Wiring configuration)



NOTE:
SEE SMARTWIRE 2-WIRE SYSTEM WIRING ISOMETRIC
ON THIS SHEET IR-11 FOR 2-WIRE ROUTING DETAILS.

SMARTWIRE WIRE PATH LAYOUT
NO SCALE

Straight line configuration, i.e. wire distance to furthest decoder, no loop:

Wire Size (Gauge)	#18	#16	#14	#12
Wire Length (ft)	1,000	2,000	4,000	6,000
Wire Length (m)	300	600	1,200	1,800

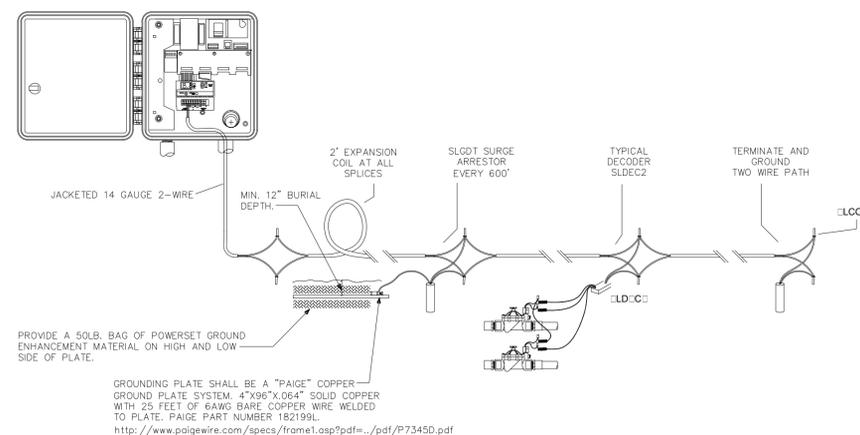
Loop Configuration, i.e. wire distance to the furthest decoder in the loop:

Wire Size (Gauge)	#18	#16	#14	#12
Wire Length (ft)	2,000	4,000	10,000	10,000
Wire Length (m)	600	1,200	3,000	3,000

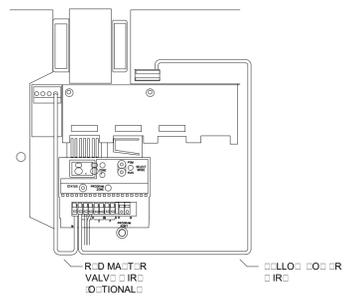
Maximum total wire path length is 10,000 ft. (3,000 m).

WIRE SIZING
NO SCALE

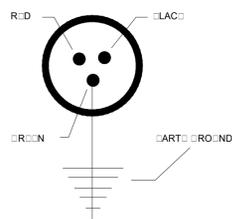
Two-wire irrigation details:



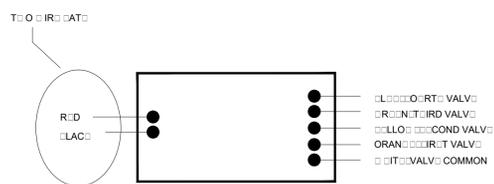
SYSTEM REQUIREMENTS



POWER AND MASTER VALVE DETAIL
NO SCALE



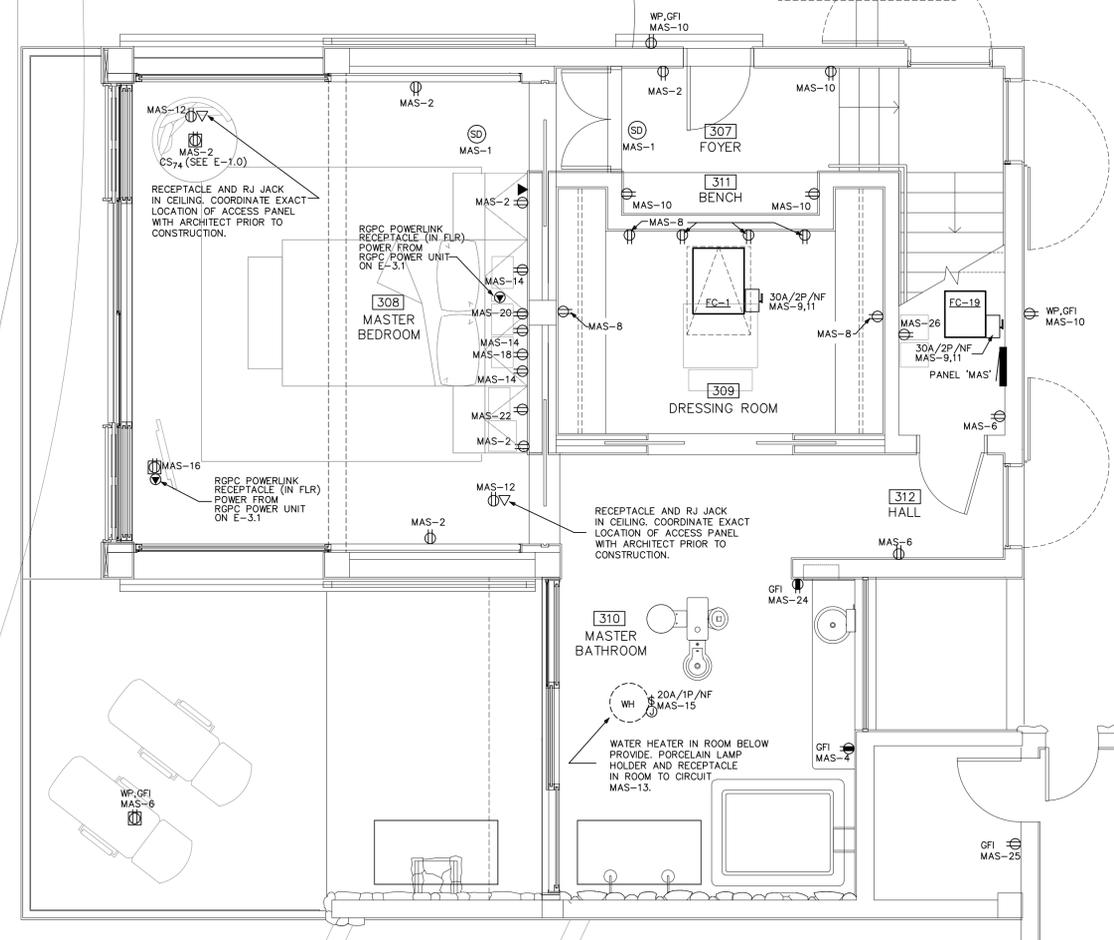
SLGDT SCHEMATIC
NO SCALE



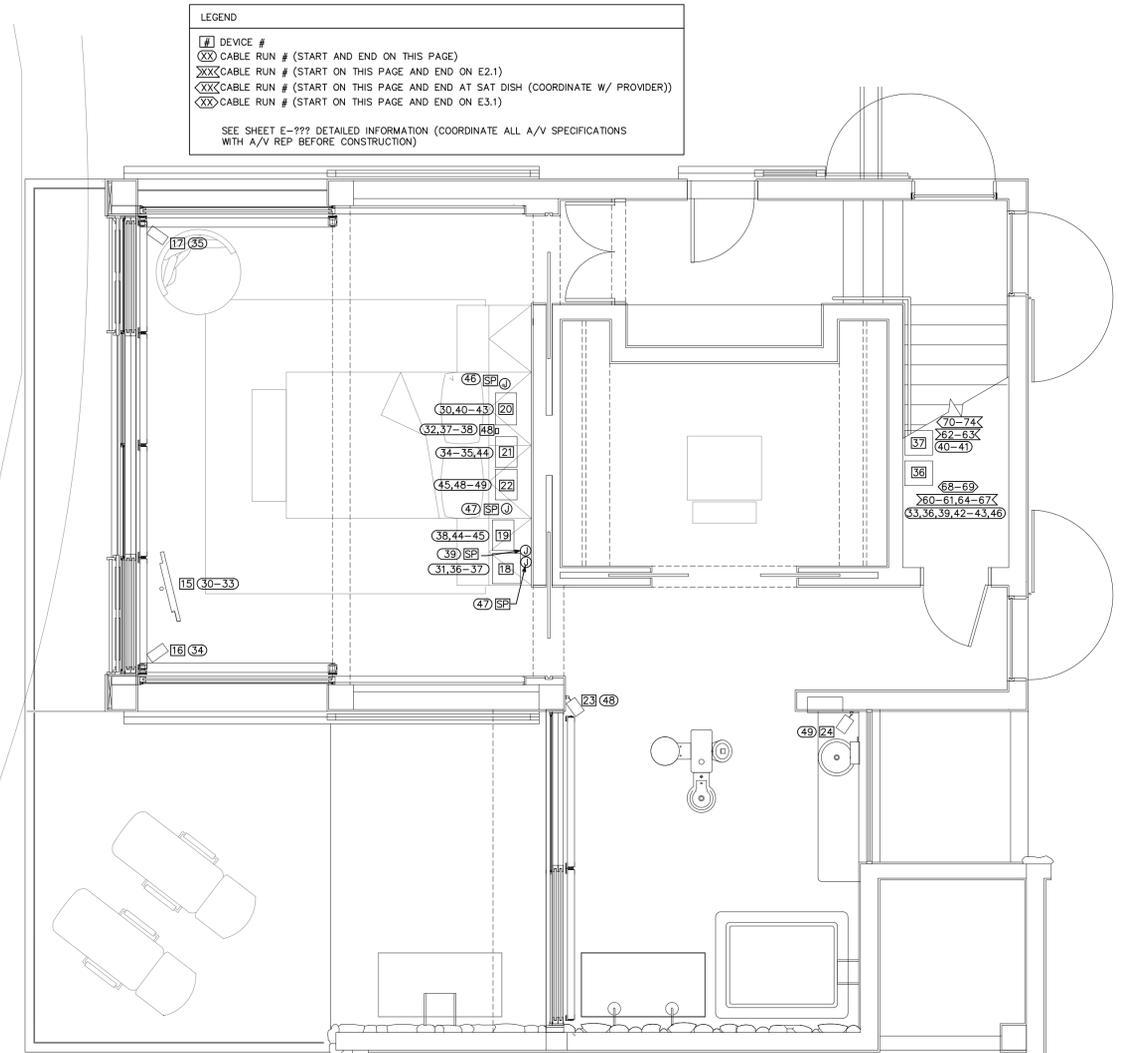
DECODER SCHEMATIC
NO SCALE

SMARTWIRE TWO-WIRE SYSTEM NOTES

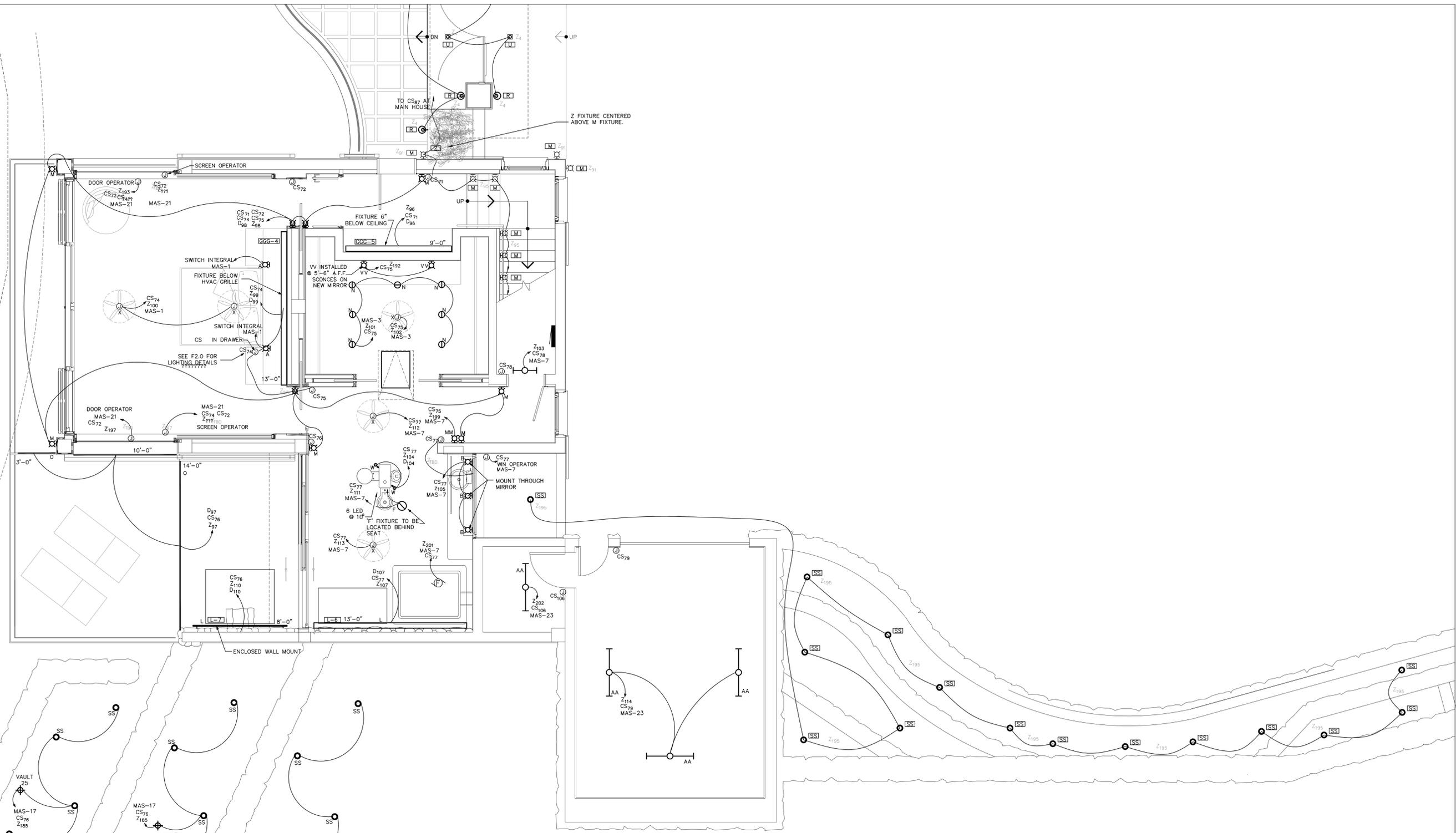
- SPECIFIC WIRE POLARITY IS REQUIRED. MAINTAIN RED AND BLACK WIRE POLARITY THROUGHOUT INSTALLATION.
- UP TO THREE INDEPENDENT WIRE PATHS MAY BE RUN FOR EACH SLM48DM.
- MAXIMUM DISTANCE FROM SLDEC DECODERS TO REMOTE CONTROL VALVE NOT TO EXCEED 100' (30.5M).
- MARK EACH ZONE NUMBER ON THE SLDEC DECODER. FOR MULTI-VALVE DECODERS RECORD THE ZONE IN ORDER OF WIRE COLOR CODE: ORANGE, YELLOW, GREEN, AND BLUE.
- MARK ALL ZONE NUMBERS AND DECODER LOCATIONS ON THE AS-BUILT PLAN FOR FINAL SUBMITTAL.
- SECURE ALL RED AND BLACK 2-WIRE CONNECTIONS USING ONLY MANUFACTURER'S SUPPLIED SLC0NN ALUMINUM CONNECTORS AND GREASE FILLED WATERPROOF CONNECTORS.
- ALL REMOTE CONTROL VALVE WIRE SPLICES SHALL BE SECURED USING AN ENCAPSULATED, GEL-FILLED WATERPROOF WIRE CONNECTOR SUITABLE FOR DIRECT BURIAL AND INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- 2-WIRE SYSTEM SHALL CONSIST OF:
 - CONDUCTORS MUST BE SOFT DRAWN, ANNEALED, SOLID COPPER CONFORMING TO ASTM 33.
 - CONDUCTOR INSULATION MUST BE 4/64-INCH THICK POLYVINYL CHLORIDE (PVC) CONFORMING TO UL #493.
 - THE TWO INSULATED CONDUCTORS LAID IN PARALLEL AND ENCASED IN A SINGLE OUTER JACKET OF 3/64-INCH THICK, HIGH-DENSITY, SUNLIGHT RESISTANT POLYETHYLENE CONFORMING TO ICEA 5-61-402 AND NEMA WC5, HAVING A MINIMUM WALL THICKNESS OF .045-INCH.
 - THE TWO CONDUCTORS MUST BE COLOR-CODED: NORMALLY ONE CONDUCTOR RED AND THE OTHER BLACK. BOTH CONDUCTORS SHALL BE THE SAME SIZE.
- ALL 2-WIRE PATHS UNDER HARDSCAPE SURFACES SHALL BE SLEEVED AND INCLUDE NO SPLICES OF THE 2-WIRE PATH WITHIN 5' OF SLEEVES. SECURE A 2' (0.6M) EXPANSION LOOP IN THE TWO-WIRE PATH AT EACH CHANGE OF DIRECTION AND ENTRY AND EXIT OF SLEEVE LOCATIONS DURING WIRE INSTALLATION. RELEASE THE EXPANSION LOOPS PRIOR TO DIRECT BURIAL.
- USE CARE IN STRIPPING ALL WIRE CONNECTIONS TO AVOID DAMAGE TO THE 2-WIRE SHIELD AND RED AND BLACK WIRE PATH. REMOVE AND DISCARD ANY DAMAGED 2-WIRE SECTIONS AND REPAIR USING TWO SLC0NN SPLICE KITS.
- USE EXPANSION COILS ON THE RED AND BLACK WIRES AT EACH DECODER INSTALLATION. NO EXPANSION COILS ARE NECESSARY FOR THE SLGDT.
- ADHERE TO ALL LOCAL AND NATIONAL BUILDING AND ELECTRICAL CODES.
- CONTRACTOR SHALL PROVIDE AS-BUILD (2 TO 3 POINT) DIMENSIONS FOR EACH INSTALLED VALVE BOX UPON COMPLETION OF PROJECT.



1 FLOOR PLAN [MASTER SUITE] - POWER
SCALE: 1/4"=1'-0"



2 FLOOR PLAN [MASTER SUITE] - A/V
SCALE: 1/4"=1'-0"



1 FLOOR PLAN (MASTER SUITE) - LIGHTING
 SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/
 ARCH PRIOR TO CONSTRUCTION.

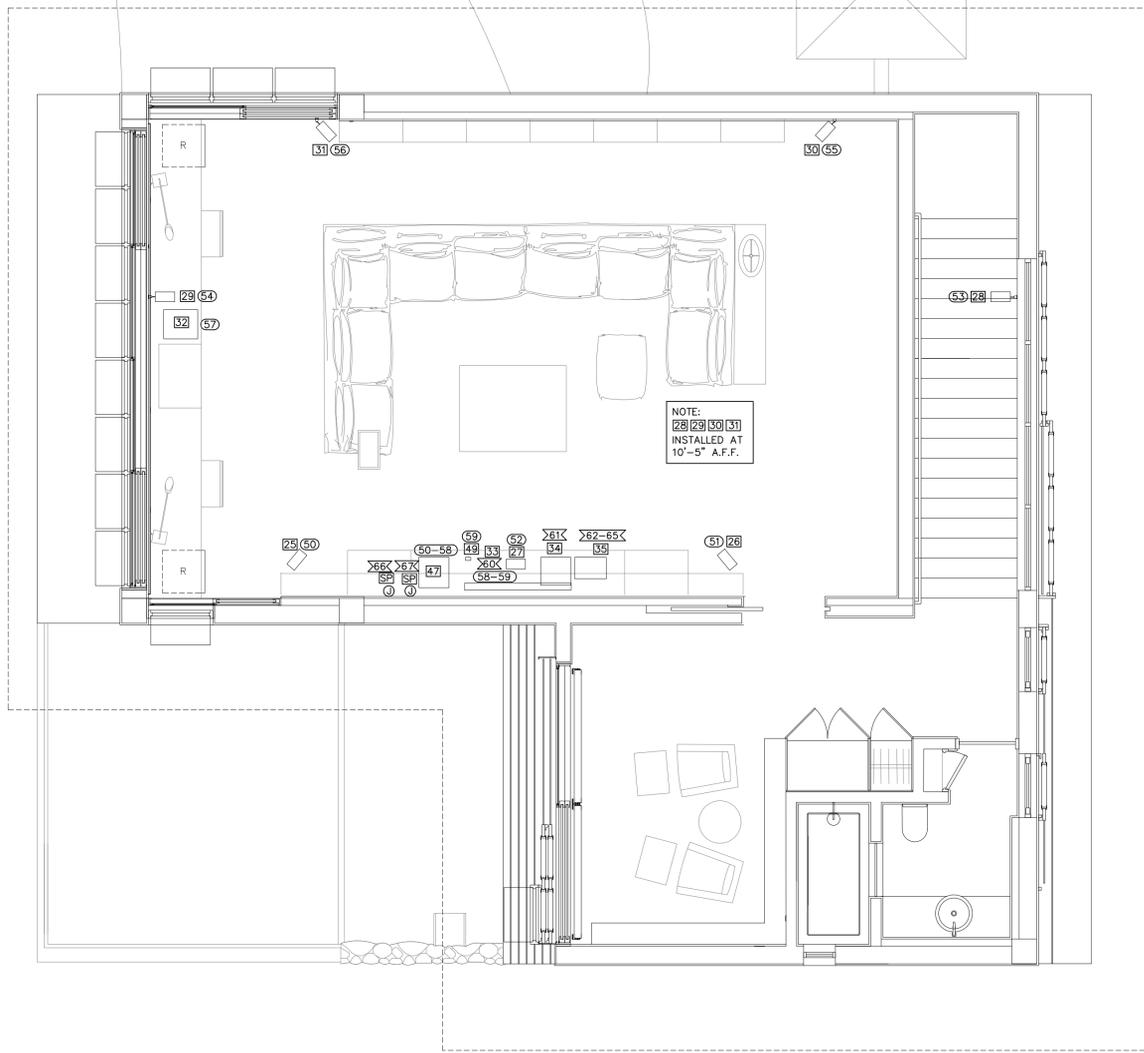
LEGEND

[E] DEVICE #

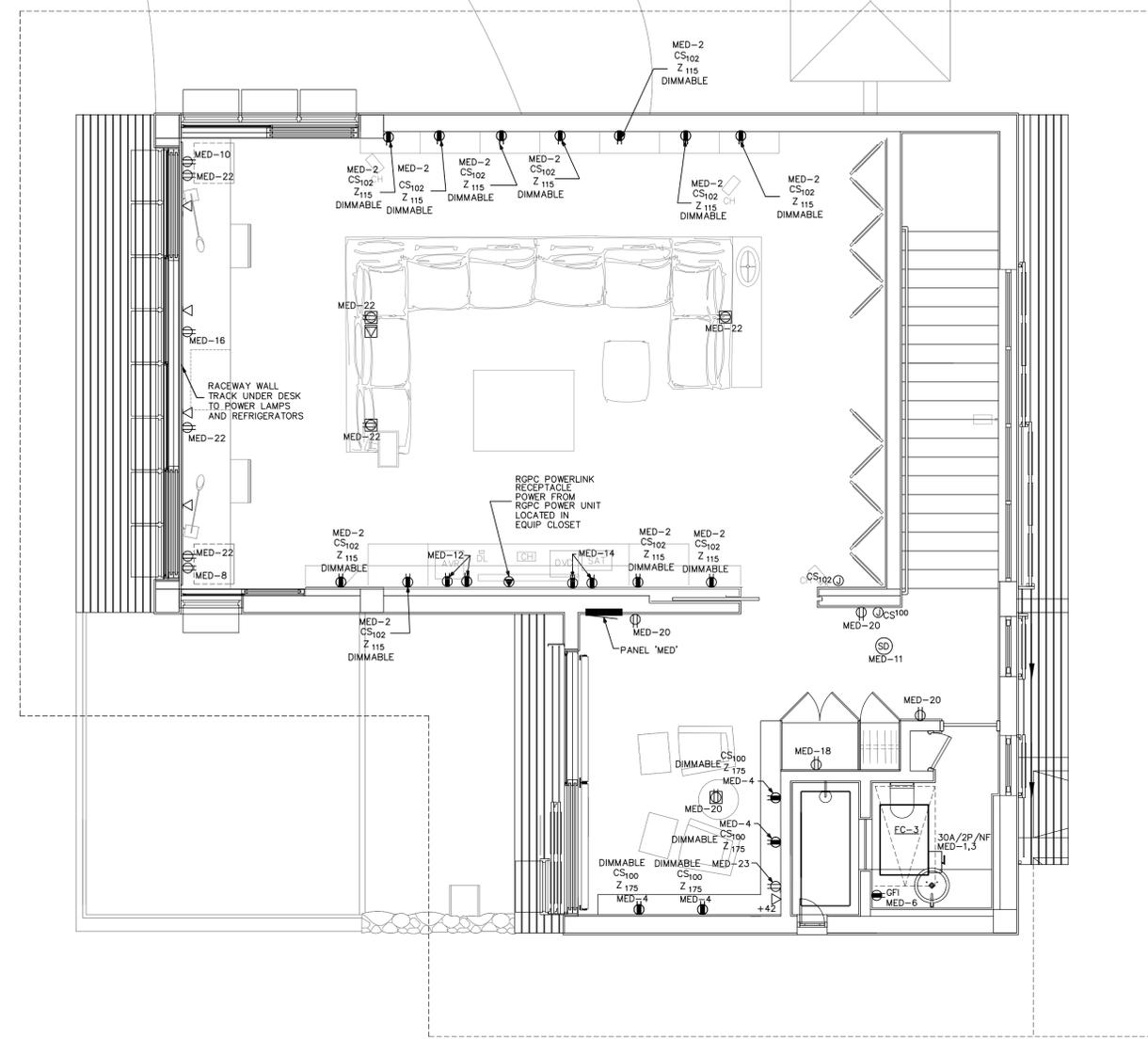
[XX] CABLE RUN # (START AND END ON THIS PAGE)

[XXX] CABLE RUN # (START ON THIS PAGE AND END ON E1.1)

SEE SHEET E-??? DETAILED INFORMATION (COORDINATE ALL A/V SPECIFICATIONS WITH A/V REP BEFORE CONSTRUCTION)

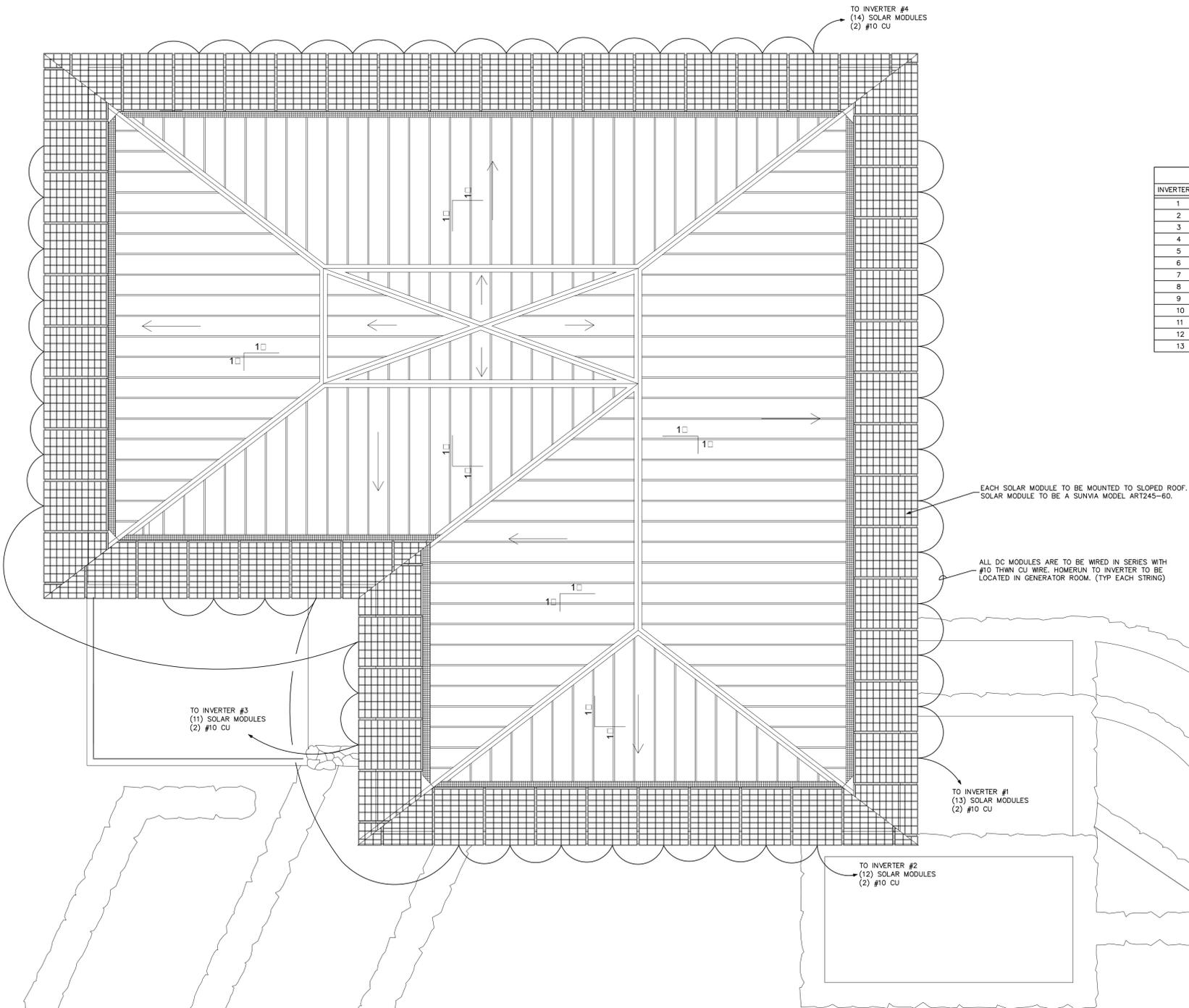


2 FLOOR PLAN [MEDIA ROOM] - A/V EQUIPMENT
SCALE: 1/4"=1'-0"



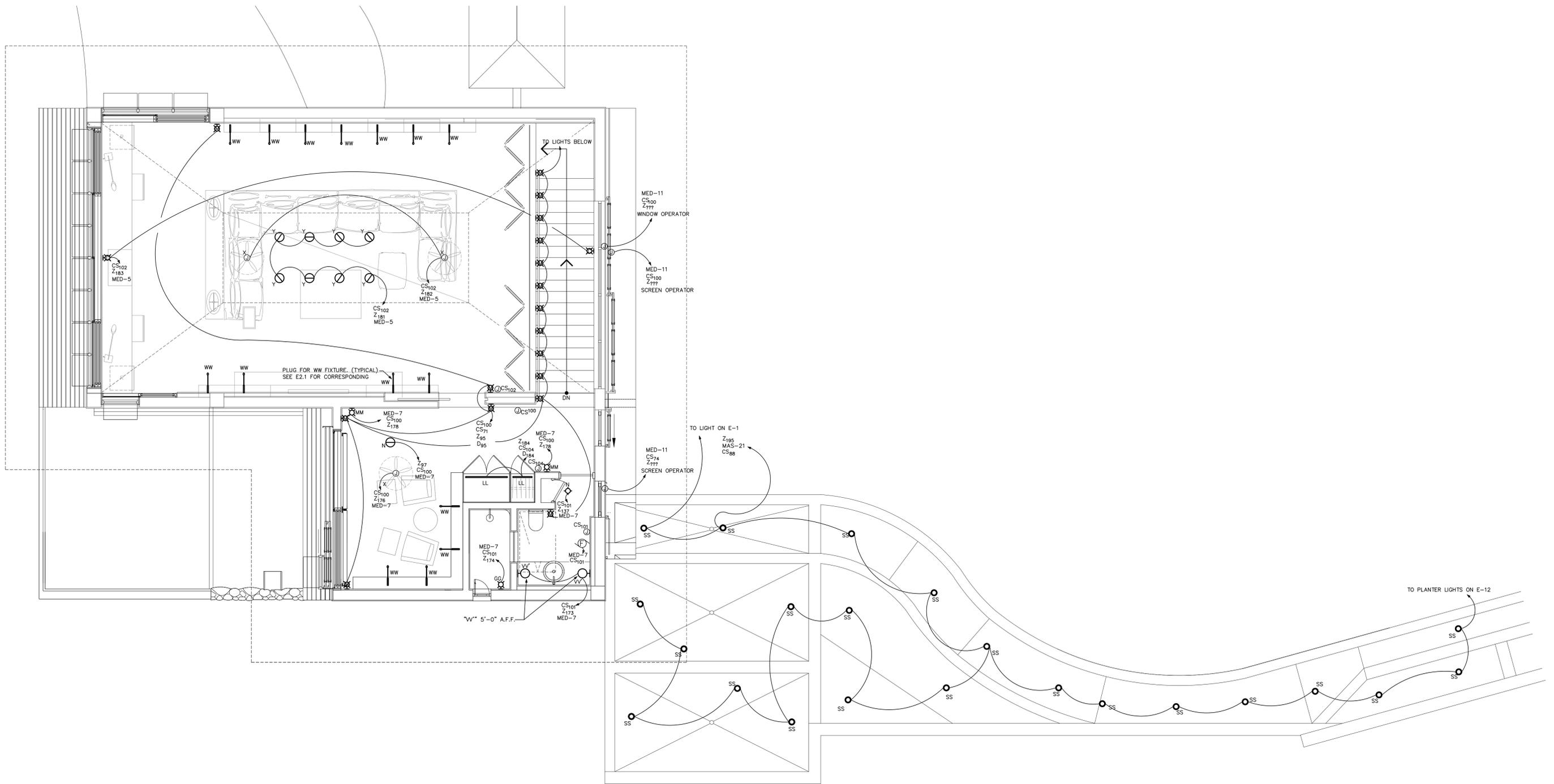
1 FLOOR PLAN [MEDIA ROOM] - POWER
SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/ ARCH PRIOR TO CONSTRUCTION.



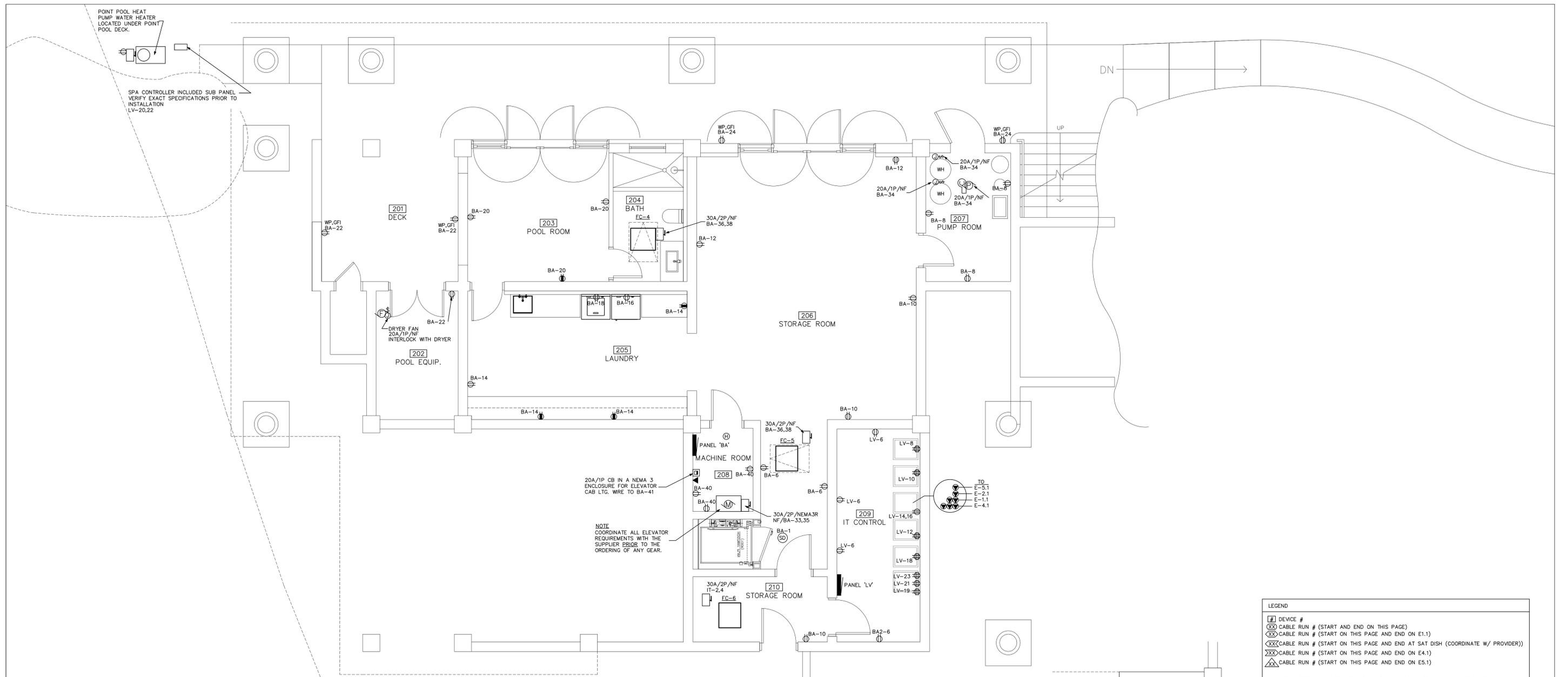
SOLAR INVERTER SCHEDULE							
INVERTER #	# OF SOLAR MODULES	# OF DC FEED CIRCUITS	INVERTER MODEL #	MAXIMUM AC ACTIVE POWER	EST. YEARLY YIELD	GRID VOLTAGE	
1	13	1	SUNNY BOY 4000US - 208V	3.54 KW	3305 KWH	208V/1Ø	
2	12	1	SUNNY BOY 4000US - 208V	3.54 KW	3166 KWH	208V/1Ø	
3	11	1	SUNNY BOY 3000US - 208V	3.05 KW	2810 KWH	208V/1Ø	
4	14	1	SUNNY BOY 4000US - 208V	3.54 KW	2679 KWH	208V/1Ø	
5	16	2	SUNNY BOY 3000US - 208V	3.05 KW	3672 KWH	208V/1Ø	
6	9	1	SUNNY BOY 3000US - 208V	3.05 KW	2338 KWH	208V/1Ø	
7	16	2	SUNNY BOY 3000US - 208V	3.05 KW	4248 KWH	208V/1Ø	
8	9	1	SUNNY BOY 3000US - 208V	3.05 KW	1685 KWH	208V/1Ø	
9	13	1	SUNNY BOY 4000US - 208V	3.54 KW	3919 KWH	208V/1Ø	
10	13	1	SUNNY BOY 4000US - 208V	3.54 KW	3919 KWH	208V/1Ø	
11	11	1	SUNNY BOY 3000US - 208V	3.05 KW	3292 KWH	208V/1Ø	
12	11	1	SUNNY BOY 3000US - 208V	3.05 KW	3292 KWH	208V/1Ø	
13	10	1	SUNNY BOY 3000US - 208V	3.05 KW	2993 KWH	208V/1Ø	

1 MASTER BEDROOM ROOF PLAN - ELECTRICAL
SCALE: 1/4"=1'-0"



2 FLOOR PLAN (MEDIA ROOM) - LIGHTING
 SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/
 ARCH PRIOR TO CONSTRUCTION.



POINT POOL HEAT PUMP WATER HEATER LOCATED UNDER POINT POOL DECK.

SPA CONTROLLER INCLUDED SUB PANEL VERIFY EXACT SPECIFICATIONS PRIOR TO INSTALLATION LV-20,22

DRYER FAN 20A/1P/NF INTERLOCK WITH DRYER

20A/1P CB IN A NEMA 3 ENCLOSURE FOR ELEVATOR CAB LTG. WIRE TO BA-41

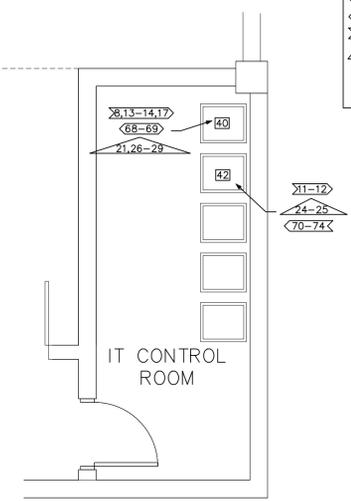
NOTE: COORDINATE ALL ELEVATOR REQUIREMENTS WITH THE SUPPLIER PRIOR TO THE ORDERING OF ANY GEAR.

TO E-5.1 E-2.1 E-1.1 E-4.1

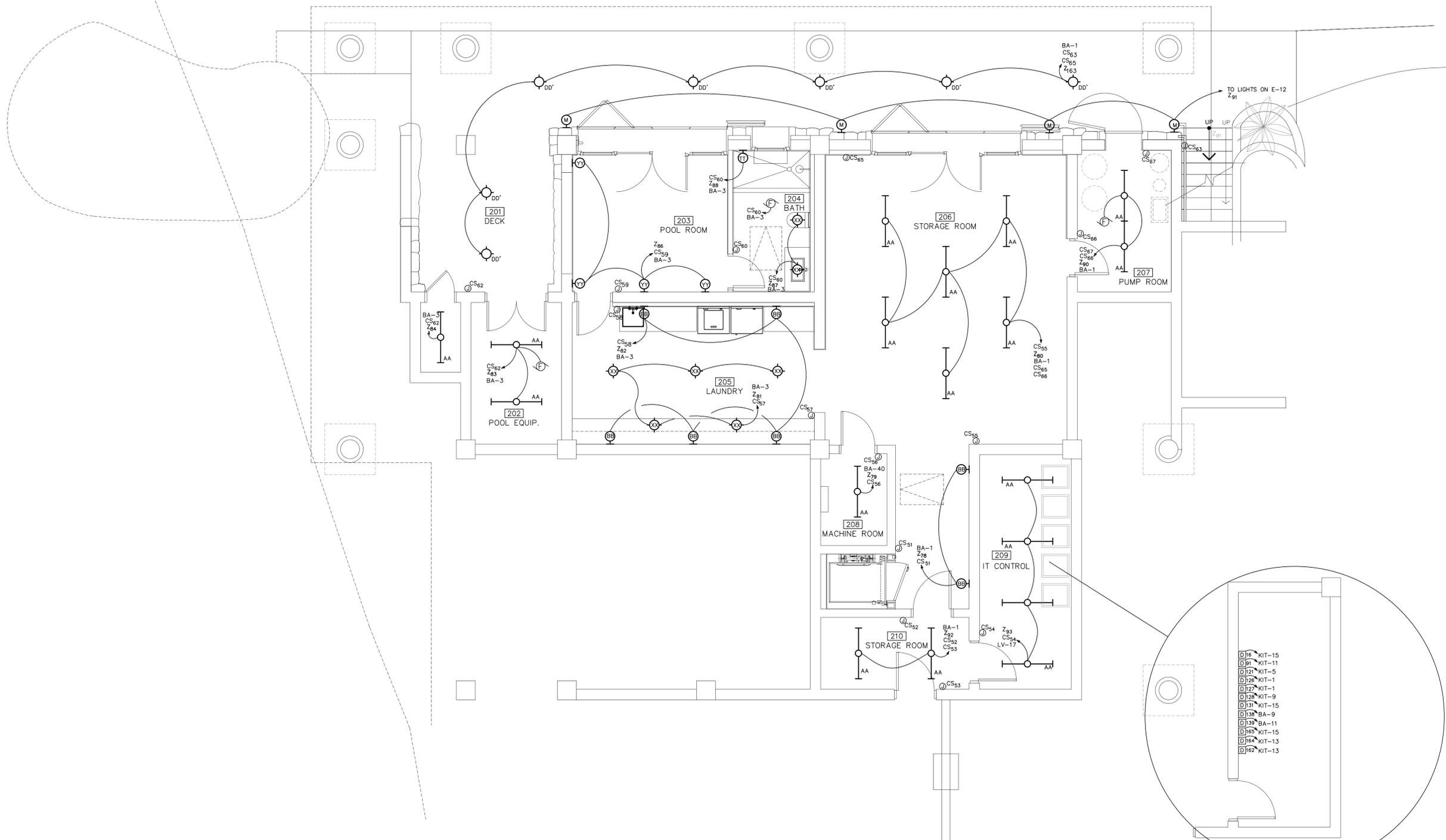
1 FLOOR PLAN [SERVICE LEVEL] - POWER
SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/ ARCH PRIOR TO CONSTRUCTION.

LEGEND	
[Symbol]	DEVICE #
[Symbol]	CABLE RUN # (START AND END ON THIS PAGE)
[Symbol]	CABLE RUN # (START ON THIS PAGE AND END ON E1.1)
[Symbol]	CABLE RUN # (START ON THIS PAGE AND END AT SAT DISH (COORDINATE W/ PROVIDER))
[Symbol]	CABLE RUN # (START ON THIS PAGE AND END ON E4.1)
[Symbol]	CABLE RUN # (START ON THIS PAGE AND END ON E5.1)
SEE SHEET E-??? DETAILED INFORMATION (COORDINATE ALL A/V SPECIFICATIONS WITH A/V REP BEFORE CONSTRUCTION)	

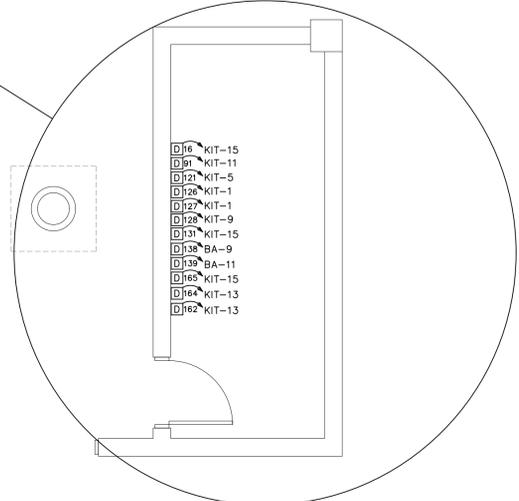


2 FLOOR PLAN [SERVICE LEVEL] - A/V
SCALE: 1/4"=1'-0"

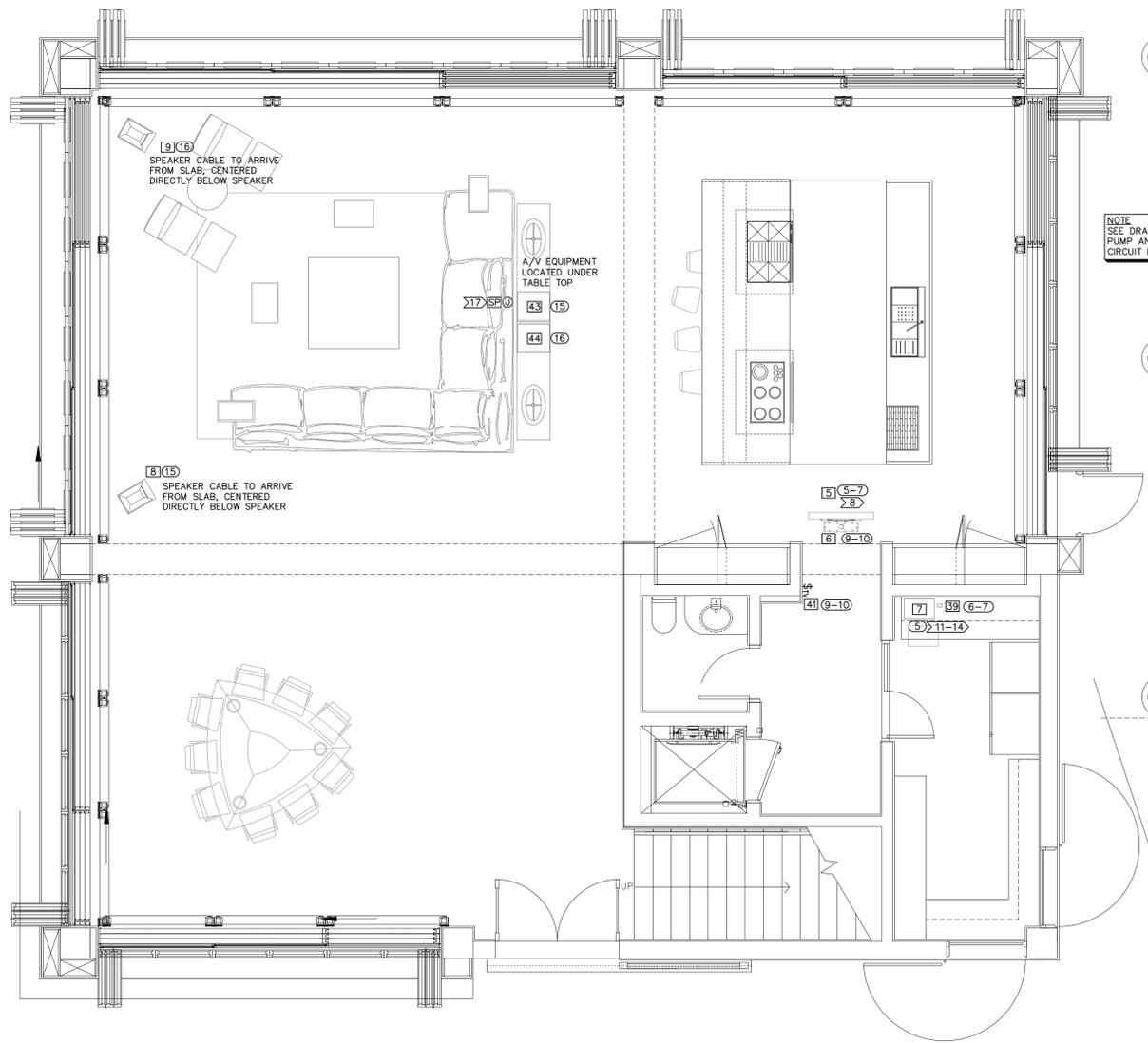


1 FLOOR PLAN [SERVICE LEVEL] - LIGHTING
 SCALE: 1/4"=1'-0"

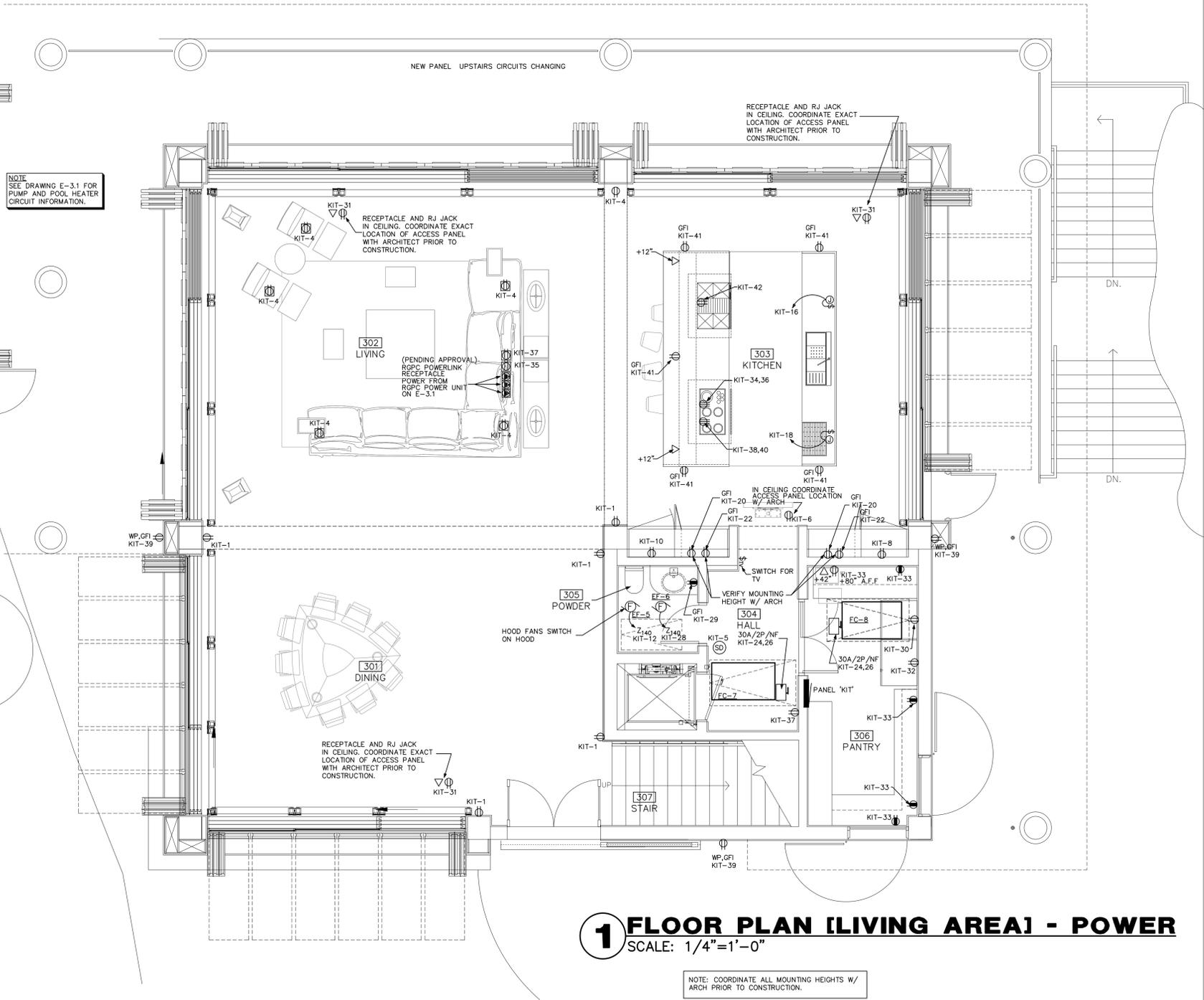
NOTE: COORDINATE ALL MOUNTING HEIGHTS W/
 ARCH PRIOR TO CONSTRUCTION.



LEGEND	
[#]	DEVICE #
[X]	CABLE RUN # (START AND END ON THIS PAGE)
[X]	CABLE RUN # (START ON THIS PAGE AND END ON E3.1)
SEE SHEET E-??? DETAILED INFORMATION (COORDINATE ALL A/V SPECIFICATIONS WITH A/V REP BEFORE CONSTRUCTION)	

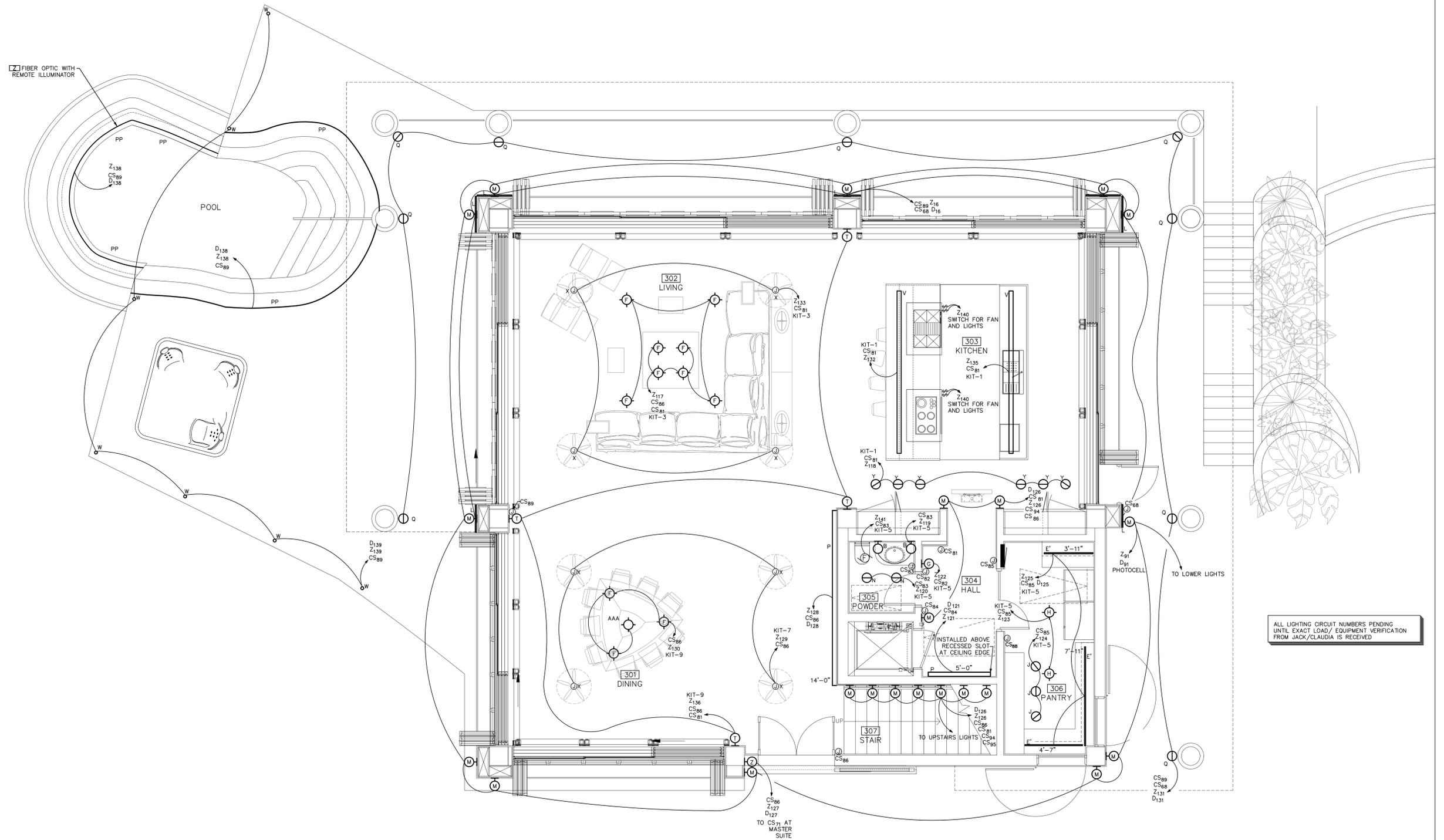


2 FLOOR PLAN (LIVING AREA) - A/V
SCALE: 1/4"=1'-0"



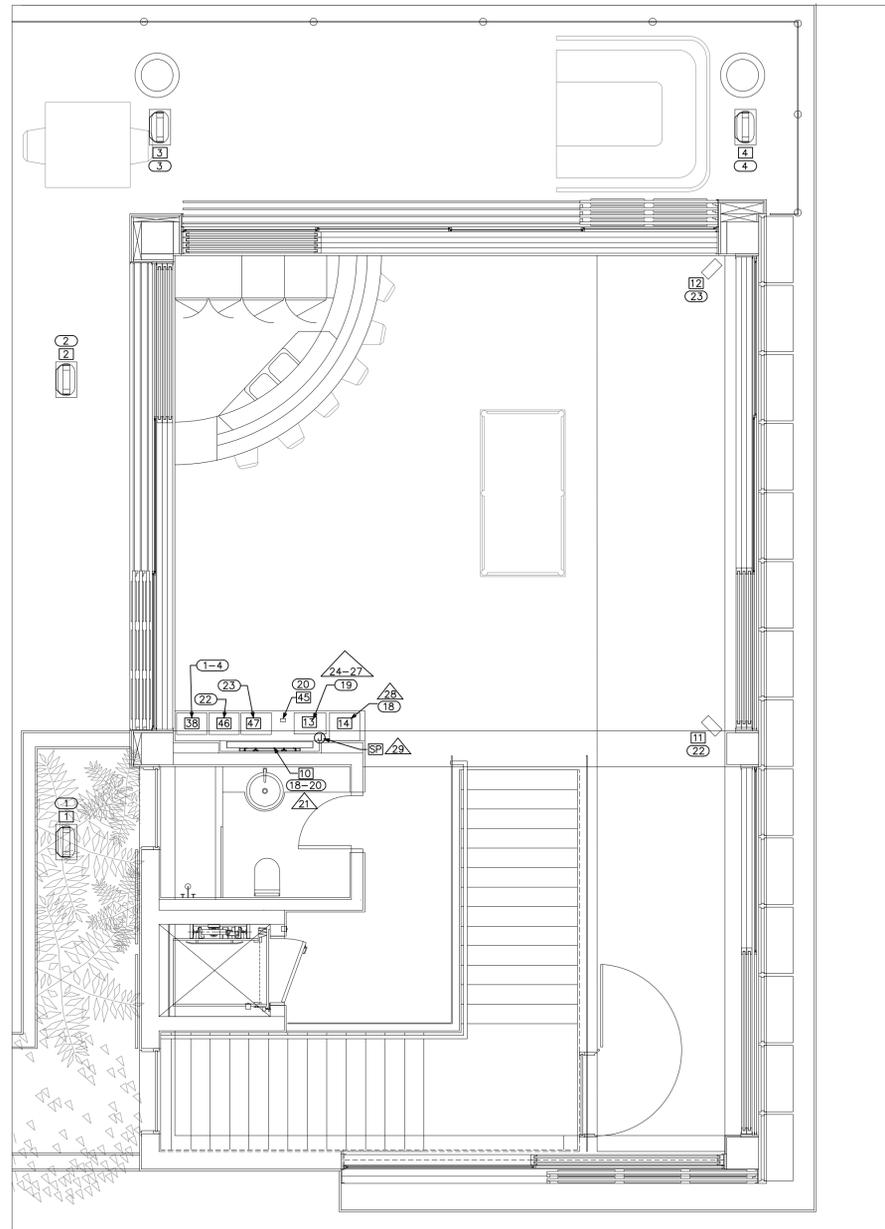
1 FLOOR PLAN (LIVING AREA) - POWER
SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/
ARCH PRIOR TO CONSTRUCTION.



1 FLOOR PLAN [LIVING AREA] - LIGHTING
 SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/
 ARCH PRIOR TO CONSTRUCTION.

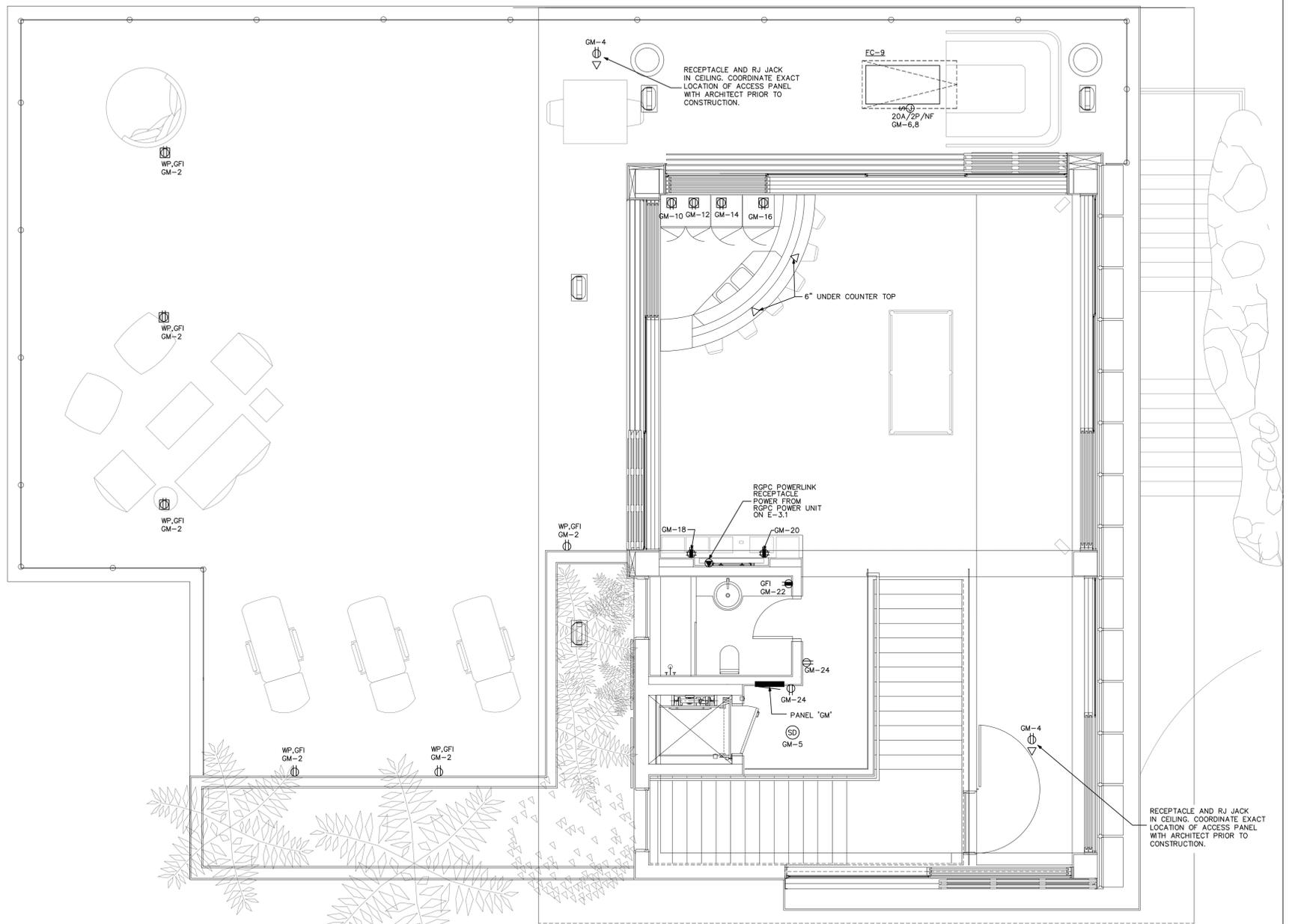


LEGEND

DEVICE #
 CABLE RUN # (START AND END ON THIS PAGE)
 CABLE RUN # (START ON THIS PAGE AND END ON E3.1)

SEE SHEET E-??? DETAILED INFORMATION (COORDINATE ALL A/V SPECIFICATIONS WITH A/V REP BEFORE CONSTRUCTION)

2 FLOOR PLAN [GAME ROOM] - A/V
SCALE: 1/4"=1'-0"



1 FLOOR PLAN [GAME ROOM] - POWER
SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/ ARCH PRIOR TO CONSTRUCTION.

ALL DC MODULES ARE TO BE WIRED IN SERIES WITH #10 THWN CU WIRE. HOMERUN TO INVERTER TO BE LOCATED IN GENERATOR ROOM. (TYP EACH STRING)

TO INVERTER #7,
INPUT #1 OF 2
(8) SOLAR MODULES
(2) #10 CU

TO INVERTER #7,
INPUT #2 OF 2
(8) SOLAR MODULES
(2) #10 CU

TO INVERTER #8
(9) SOLAR MODULES
(2) #10 CU

TO INVERTER #5,
INPUT #1 OF 2
(8) SOLAR MODULES
(2) #10 CU

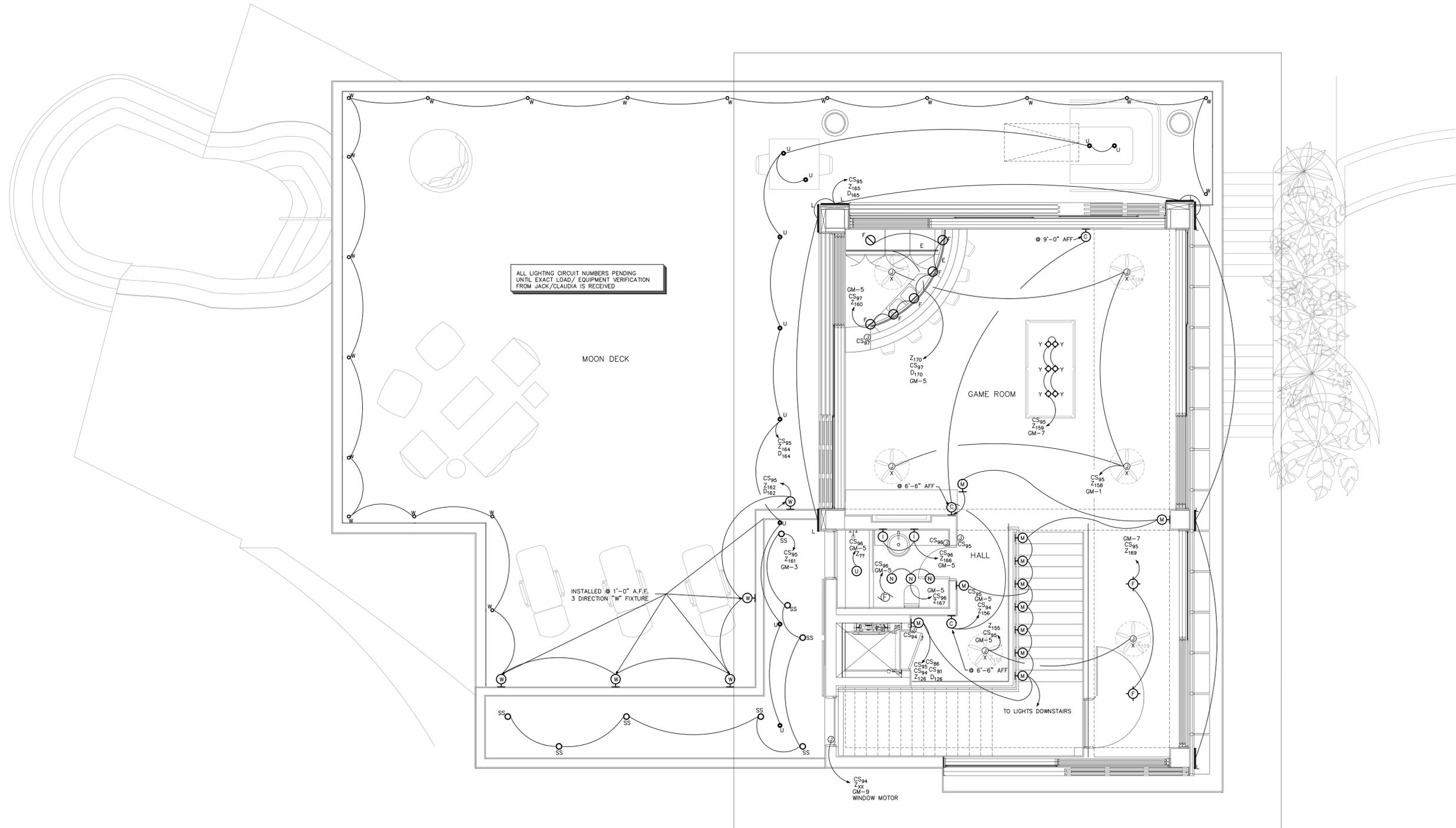
TO INVERTER #5,
INPUT #2 OF 2
(8) SOLAR MODULES
(2) #10 CU

TO INVERTER #6
(9) SOLAR MODULES
(2) #10 CU

1 MAIN HOUSE ROOF PLAN - ELECTRICAL

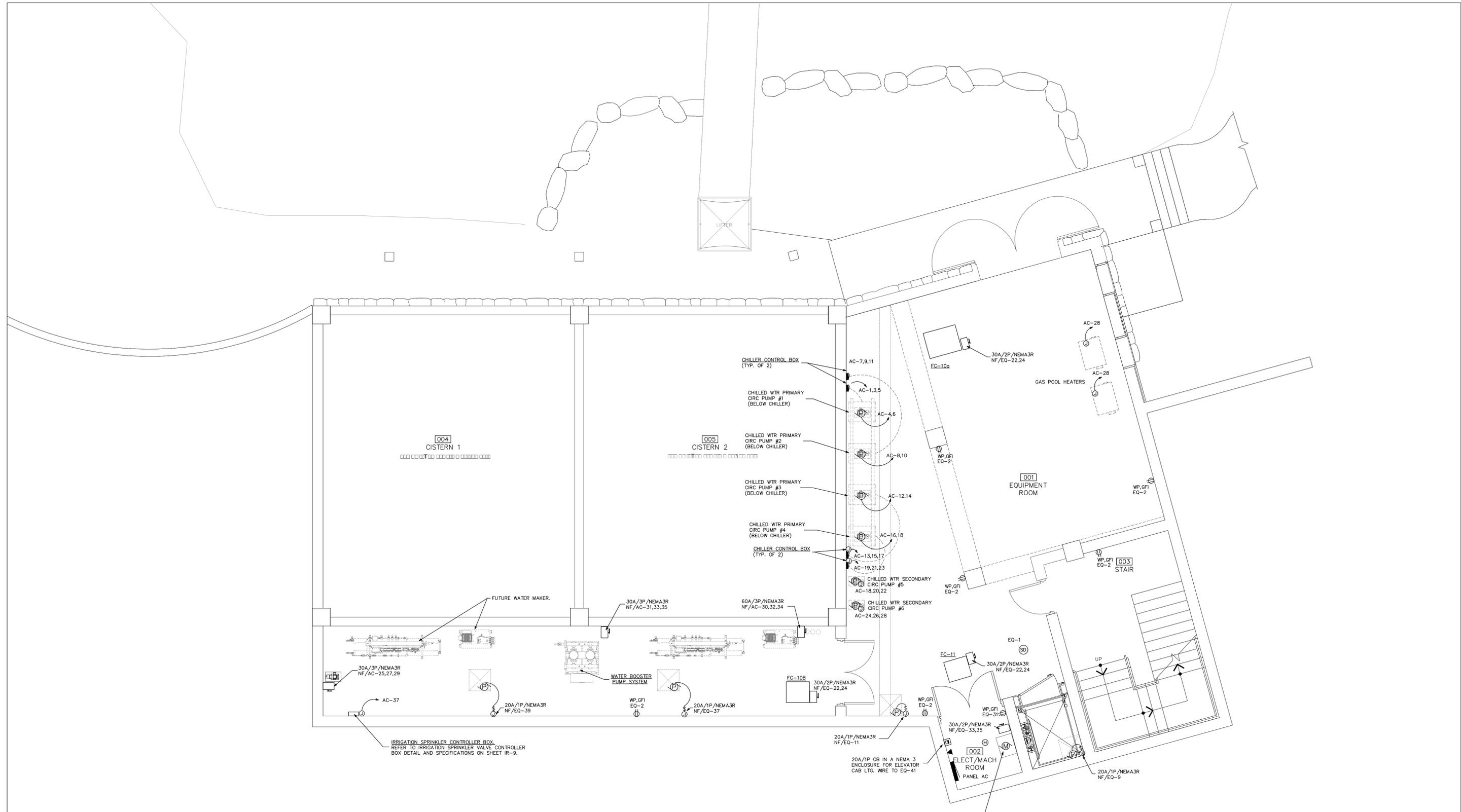
SCALE: 1/4"=1'-0"

NOTE
SEE DRAWING E-2.2 FOR INVERTER SCHEDULE.



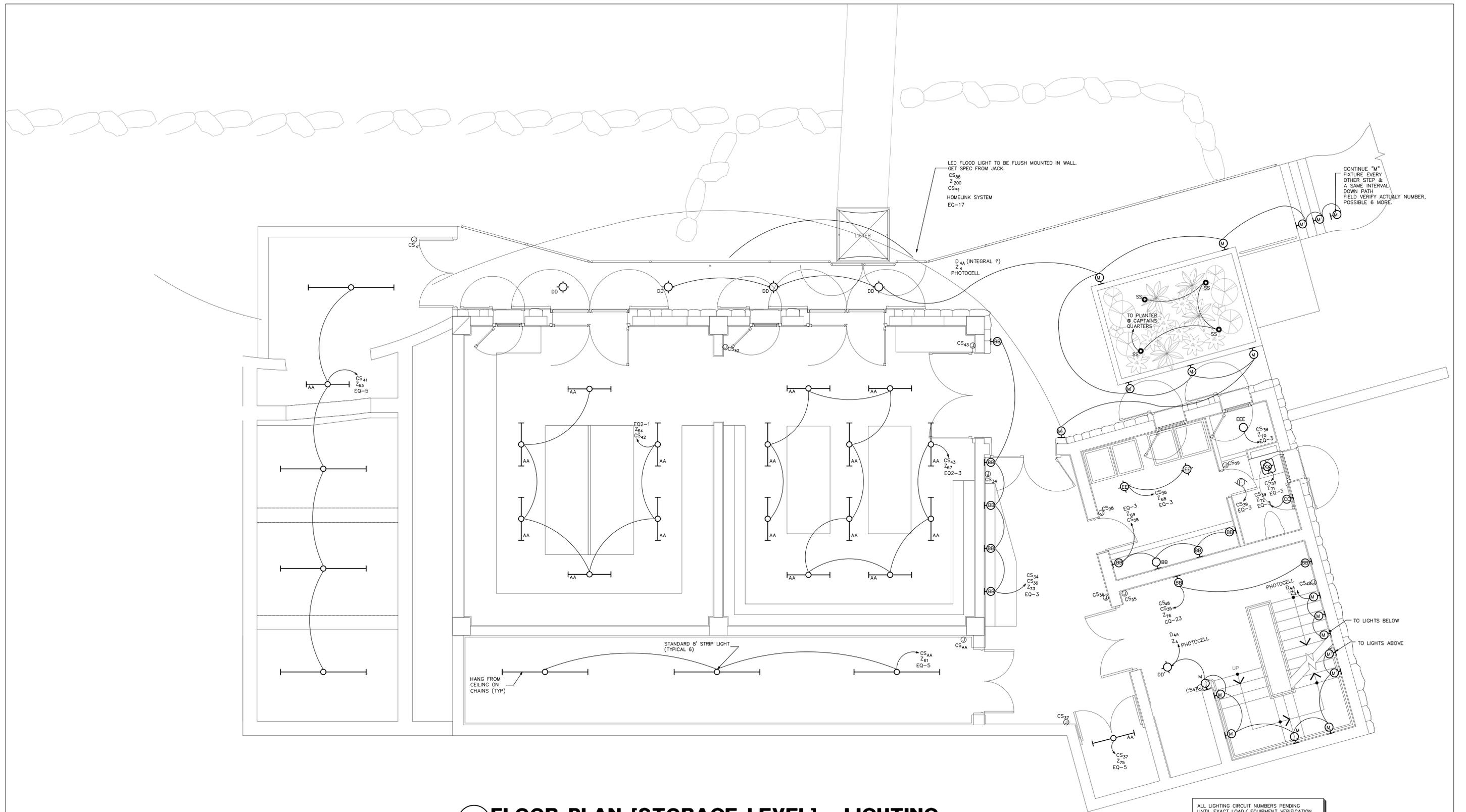
1 FLOOR PLAN [GAME ROOM] - LIGHTING
 SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/
 ARCH PRIOR TO CONSTRUCTION.



1 FLOOR PLAN [CISTERN LEVEL] - POWER
 SCALE: 1/4"=1'-0"

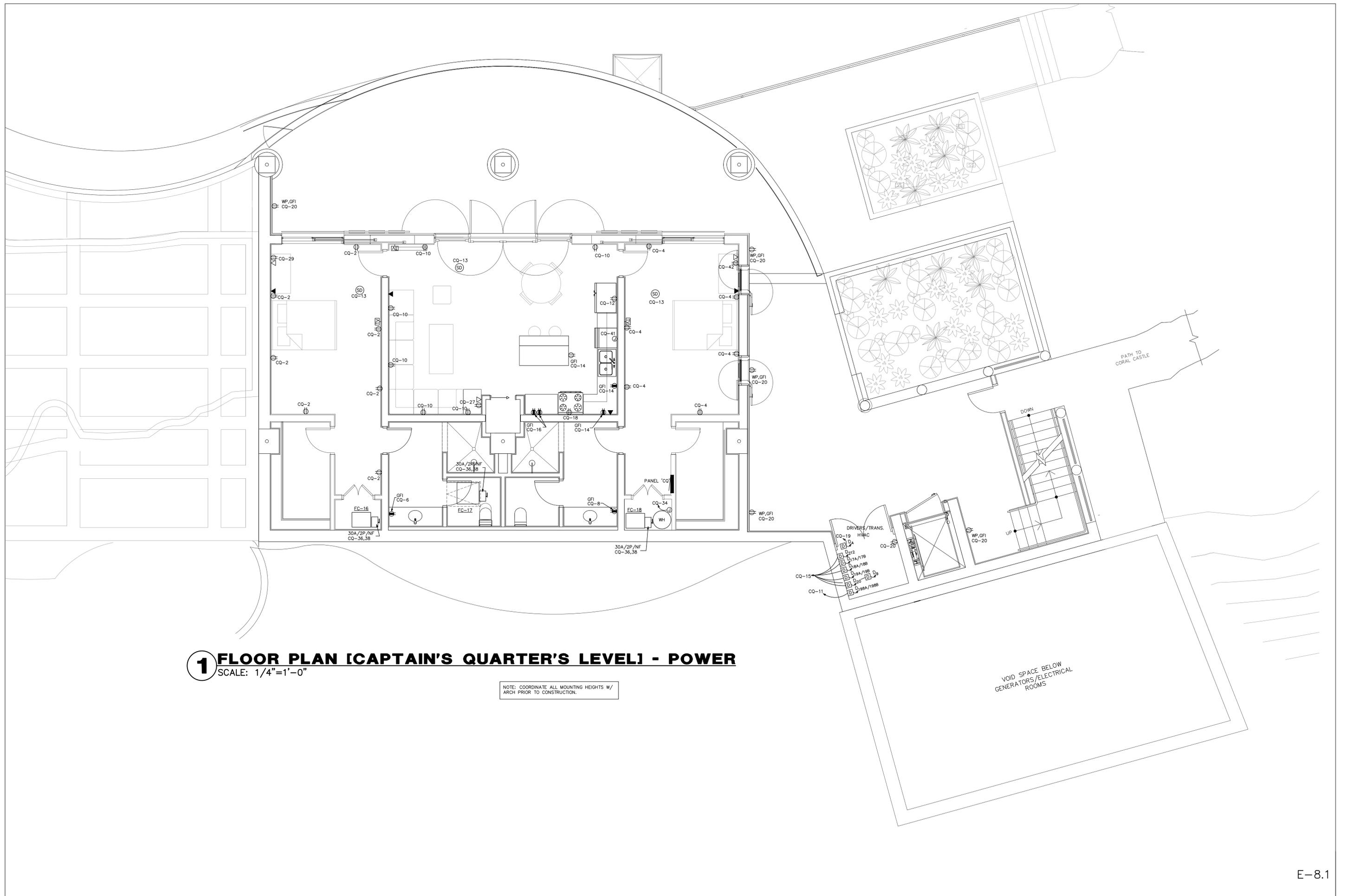
NOTE: COORDINATE ALL ELEVATOR REQUIREMENTS W/ ARCH PRIOR TO CONSTRUCTION.



1 FLOOR PLAN [STORAGE LEVEL] - LIGHTING
 SCALE: 1/4"=1'-0"

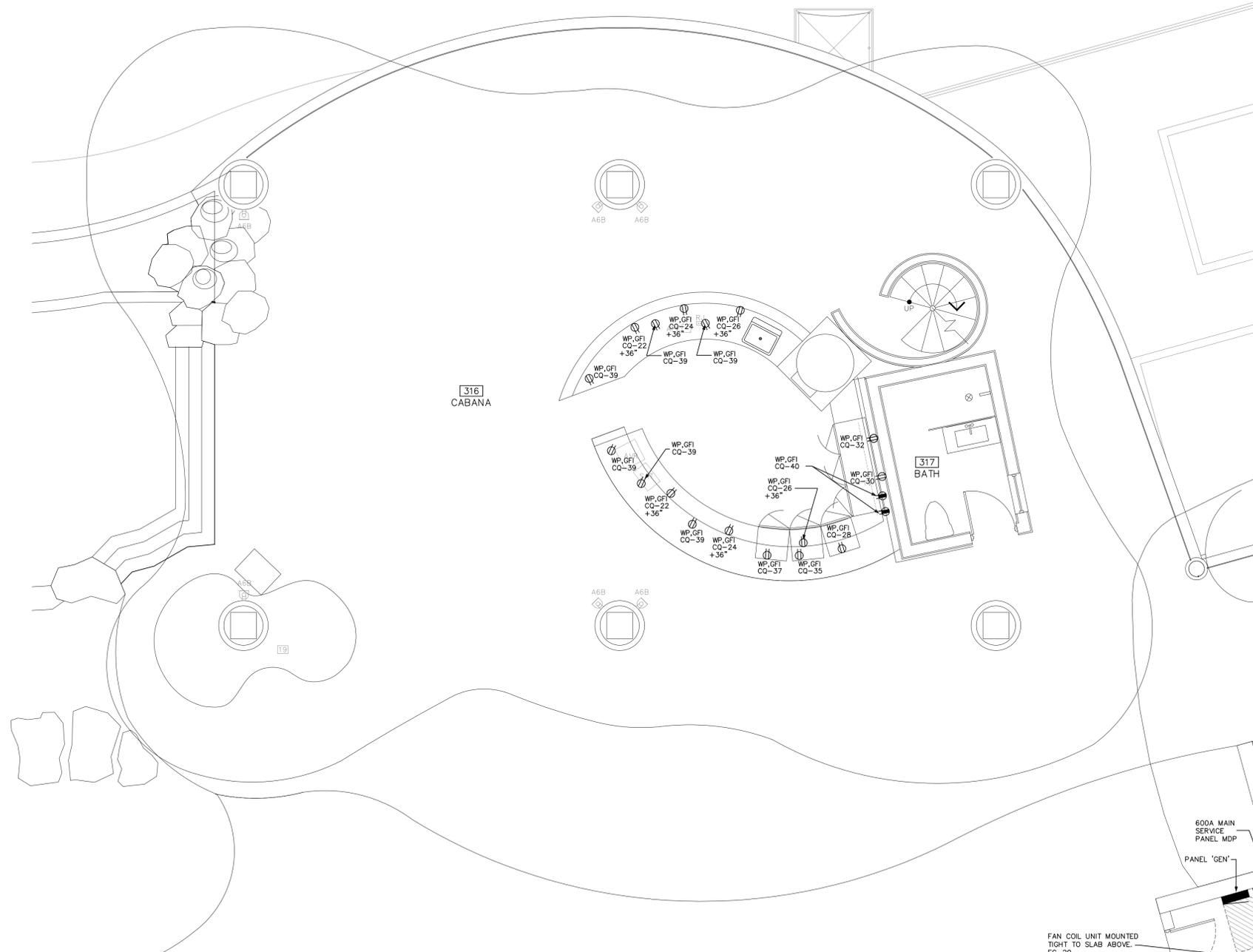
NOTE: COORDINATE ALL MOUNTING HEIGHTS W/
 ARCH PRIOR TO CONSTRUCTION.

ALL LIGHTING CIRCUIT NUMBERS PENDING
 UNTIL EXACT LOAD/ EQUIPMENT VERIFICATION
 FROM JACK/CLAUDIA IS RECEIVED



1 FLOOR PLAN [CAPTAIN'S QUARTER'S LEVEL] - POWER
 SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/
 ARCH PRIOR TO CONSTRUCTION.



PANEL SCHEDULE S																	
125 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 125A. M.C.B., 22000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE.																	
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				#	
		COND.	NEUTRAL	OND	C.							KEYS	C.	OND	NEUTRAL		COND.
1	20/2					SPARE	0	0								20/2	2
3						SPARE	0	0									4
5						SPARE	0	0									6
7	20/2					SPARE	0	0		1595	SOLAR INVERTER #1	CHAL	1/2	#12	#12	20/2	8
9						SPARE	0	0		1595							10
11	20/2					SPARE	0	0		1595	SOLAR INVERTER #2	CHAL	1/2	#12	#12	20/2	12
13						SPARE	0	0		1595							14
15	20/2					SPARE	0	0		1350	SOLAR INVERTER #3	CHAL	1/2	#12	#12	20/2	16
17						SPARE	0	0		1350							18
19	20/2					SPARE	0	0		1350	SOLAR INVERTER #4	CHAL	1/2	#12	#12	20/2	20
21						SPARE	0	0		1350							22
23	20/2					SPARE	0	0		1225	SOLAR INVERTER #5	CHAL	1/2	#12	#12	20/2	24
25						SPARE	0	0		1225							26
27	20/2					SPARE	0	0		0	SPACE						28
29						SPACE	0	0		0	SPACE						30

WIRE/CONDUIT KEY
 1234
 1-TEMP RATING
 2-CONDUIT TYPE
 3-INSULATION
 4-WIRING TYPE

WIRING TYPE: C-CU WIRE
 INSULATION: H-TWJN
 CONDUIT TYPE: H-EXT
 TEMP RATING: L-75-86 Deg. F.

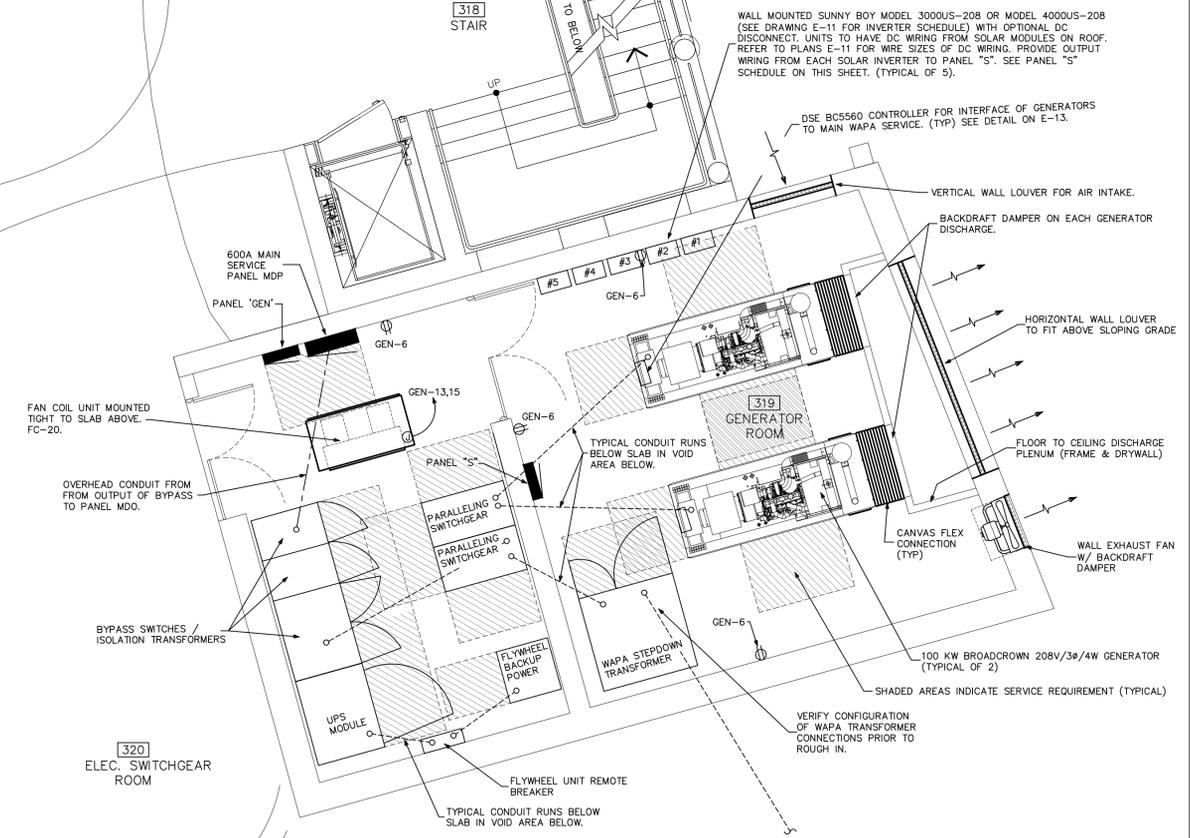
4295 4170 5765
 14,230
 NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 39.5 AMPS

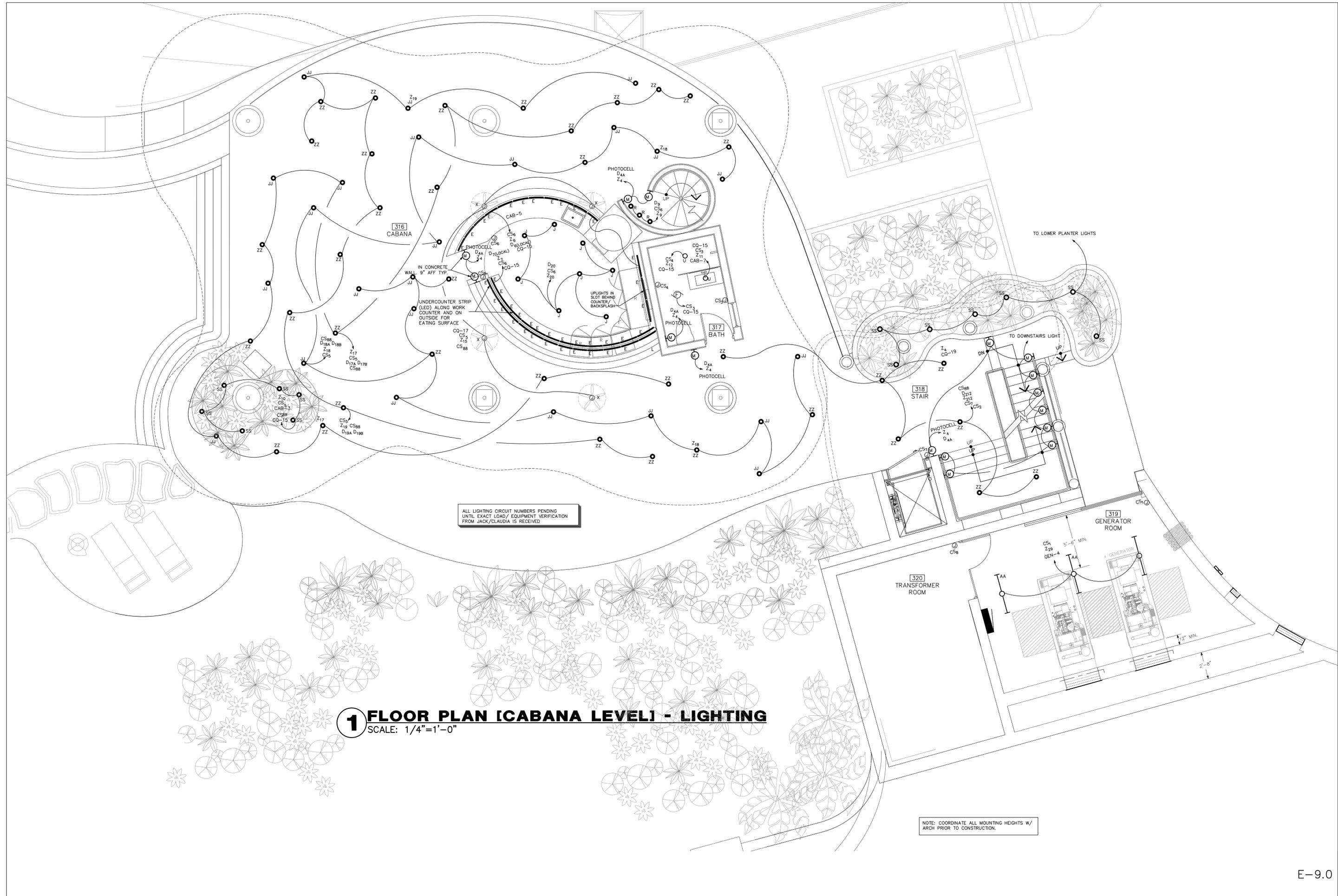
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001
 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS, PA

PANEL S DIVERSIFICATION CALCULATIONS	
MISC NON-CONTINUOUS LOADS AT 100%	14230
TOTAL DIVERSIFIED PANEL LOAD	14230
LOAD AT 120/208V/3-PHASE/4-WIRE	39.5A

1 FLOOR PLAN [CABANA LEVEL] - POWER
 SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/ ARCH PRIOR TO CONSTRUCTION.





ALL LIGHTING CIRCUIT NUMBERS PENDING UNTIL EXACT LOAD/ EQUIPMENT VERIFICATION FROM JACK/CLAUDIA IS RECEIVED

1 FLOOR PLAN [CABANA LEVEL] - LIGHTING
 SCALE: 1/4"=1'-0"

NOTE: COORDINATE ALL MOUNTING HEIGHTS W/ ARCH PRIOR TO CONSTRUCTION.

CABLES RUN TO DEVICE 6 AT CASANA LEVEL. CABLE RUN FROM CHANT TO DEVICE 6 SHOULD BE NO MORE THAN 50'.

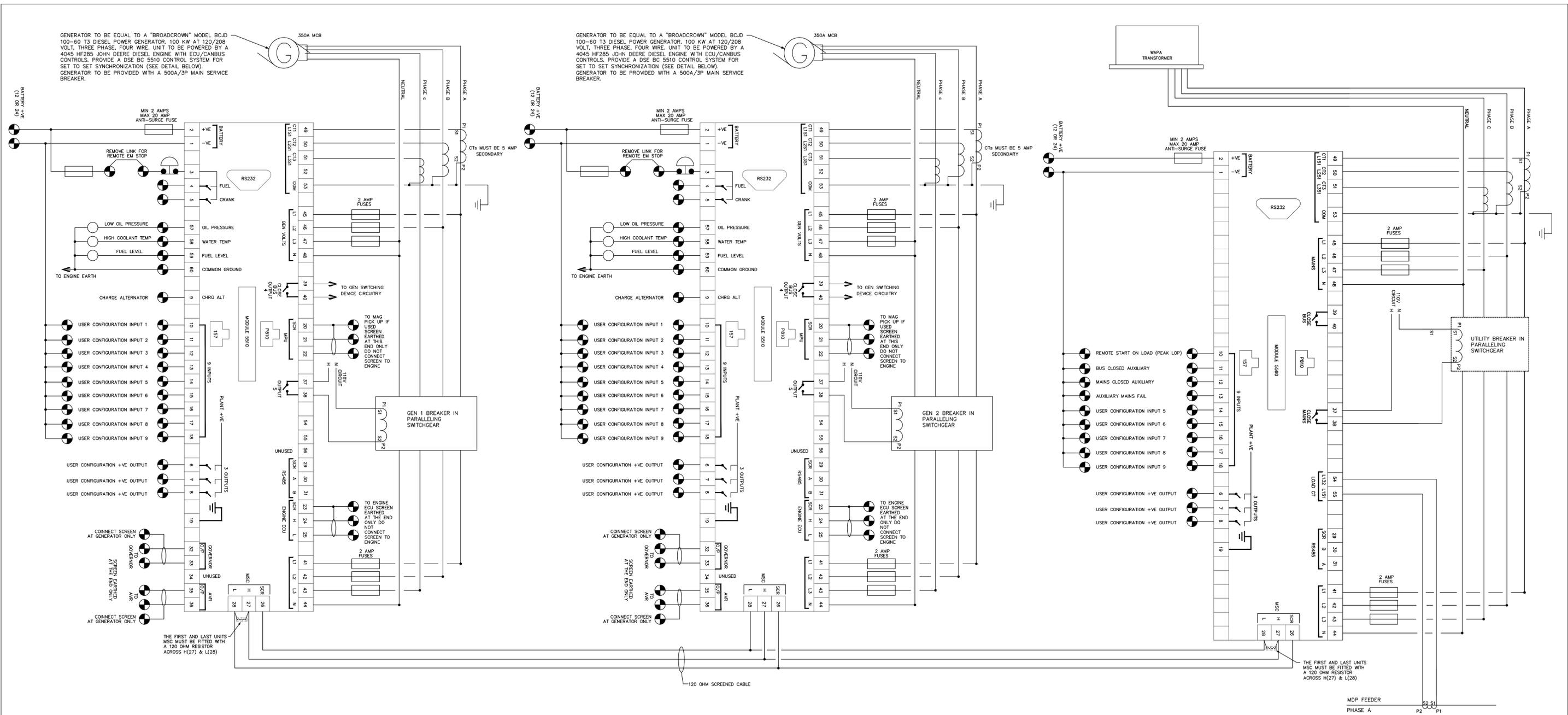
TO "SS" FIXTURES @ STAIR TOWER ROOF E-11
 CS 88
 Z 23
 DQ-19
 CS 5

"PP" LED FIXTURE UNDER REVEAL WITHING FACE OF PLANTER WALL ON ZONE 4.

ALL LIGHTING CIRCUIT NUMBERS PENDING UNTIL EXACT LOAD/ EQUIPMENT VERIFICATION FROM JACK/CLAUDIA IS RECEIVED

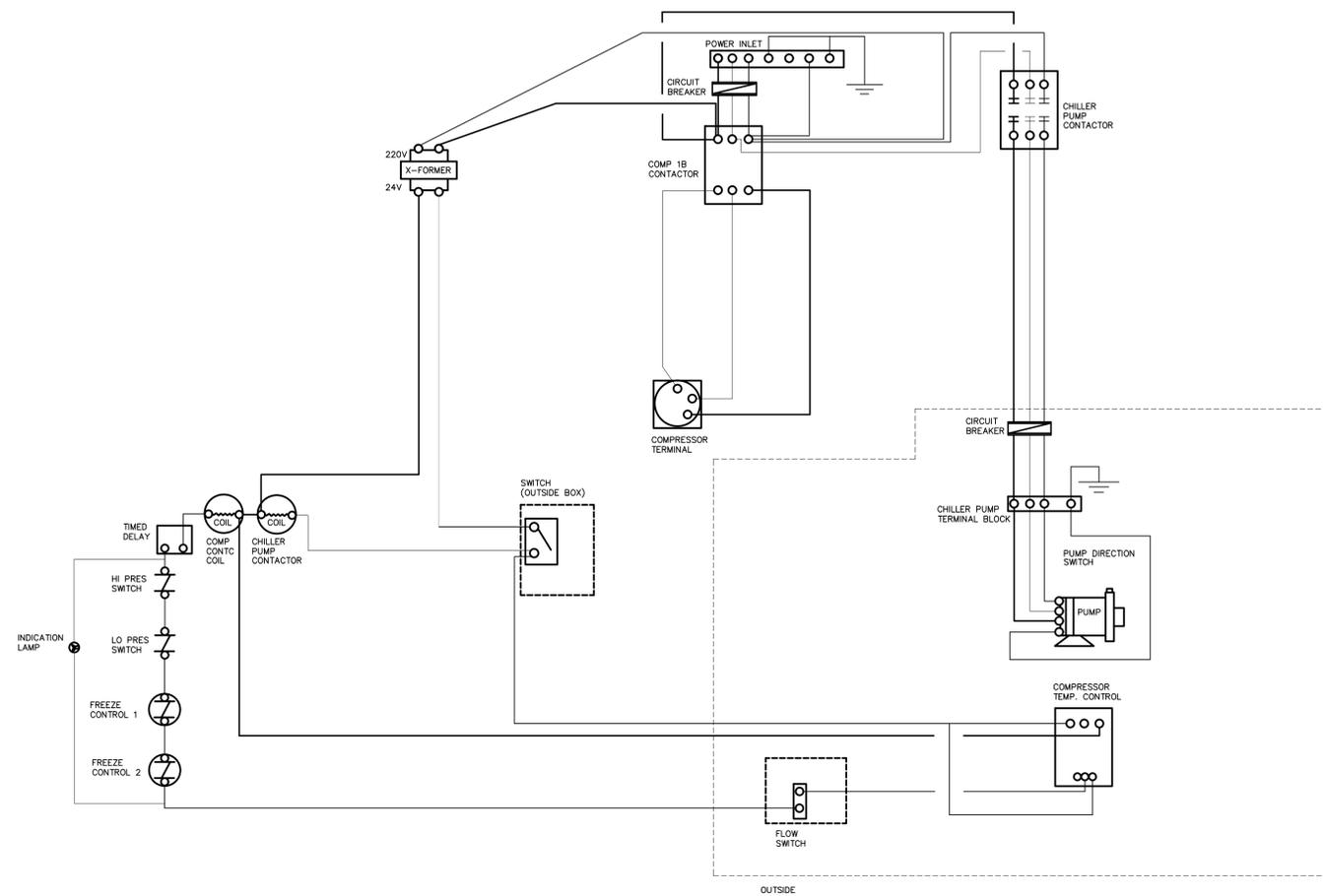
NOTE
 SEE DRAWING E-12 FOR ACCENT LIGHTING IN DRIVEWAY.

PANEL SCHEDULE MDP																			
600 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 3R ENCLOSURE																			
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR. #			
		COND.	NEUTRAL	GND	C. KEYS							KEYS	C.	GND	NEUTRAL		COND.		
1																			
3	200/3	#3/0	#3/0	#6	2	CHAL	PANELBOARD 'LV'	25480	42764										
5								27120	43726		PANELBOARD 'AC'	CHAL	(2) 2	#3	2 SETS	2 SETS	#3/0	400/3	4
7								21750	32700										
9	200/3	#3/0	#3/0	#6	2	CHAL	PANELBOARD 'EQ'	540	32280										
11								9536	20660										
13	100/2	#3	#3	#8	1	CHAL	PANELBOARD 'MAS'	14029	16156										
15								11846	3058										
17	225/2	#4/0	#4/0	#4	2	CHAL	PANELBOARD 'CD'	1092	19670										
19								14029	16156										
21								1040	3836										
23								12760	13340										
25								0	0		SPACE								
27								0	0		SPACE								
29								0	0		SPACE								
31								0	0		SPACE								
33								0	0		SPACE								
35								0	0		SPACE								
37								0	0		SPACE								
39								0	0		SPACE								
41								0	0		SPACE								
43								0	0		SPACE								
45								0	0		SPACE								
47								0	0		SPACE								
49								0	0		SPACE								
51								0	0		SPACE								
53								0	0		SPACE								
55								0	0		SPACE								
57								0	0		SPACE								
59								0	0		SPACE								
61								0	0		SPACE								
63								0	0		SPACE								
65								0	0		SPACE								
67								0	0		SPACE								
69								0	0		SPACE								
71								0	0		SPACE								
73								0	0		SPACE								
75								0	0		SPACE								
77								0	0		SPACE								
79								0	0		SPACE								
81								0	0		SPACE								
83								0	0		SPACE								
85								0	0		SPACE								
87								0	0		SPACE								
89								0	0		SPACE								
91								0	0		SPACE								
93								0	0		SPACE								
95								0	0		SPACE								
97								0	0		SPACE								
99								0	0		SPACE								
101								0	0		SPACE								
103								0	0		SPACE								
105								0	0		SPACE								
107								0	0		SPACE								
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147								0	0		SPACE								
149								0	0		SPACE								
151								0	0		SPACE								
153								0	0		SPACE								
155								0	0		SPACE								
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159								0	0		SPACE								
161								0	0		SPACE								
163								0	0		SPACE								
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167								0	0		SPACE								
169								0	0		SPACE								
171								0	0		SPACE								
173								0	0		SPACE								
175								0	0		SPACE								
177								0	0		SPACE								
179								0	0		SPACE								
181								0	0		SPACE								
183								0	0		SPACE								
185								0	0		SPACE								
187								0	0		SPACE								
189								0	0		SPACE								
191								0	0		SPACE								
193								0	0		SPACE								
195								0	0		SPACE								
197								0	0		SPACE								
199								0	0		SPACE								
201								0	0		SPACE								
203								0	0		SPACE								



1 GENERATOR SYNC/CONTROL SYSTEM DETAIL

NO SCALE



1 TYPICAL CHILLER CONTROLS
 NO SCALE

NOTE THIS DIAGRAM APPLIES TO EACH PAIR OF CHILLERS

CS #	# OF SWITCHES	3-WAYS (ZONE)	DIM WHEEL	DIMMERS (ZONES)	4 WAY (ZONES)	MOTOR CONTROLLERS	SINGLE POLE	NOTES (?)
MASTER BEDROOM								
71	4	Z95 (CS100), Z127 (CS86)		Z96	Z98 (CS72, CS74, CS75)			
72	1				Z98 (CS71, CS74, CS75)			
73	0							
74	7			Z99?	Z98 (CS71, CS72, CS75)	Z193, Z197, SCREENS(2)	Z100	
75	5			Z101, Z192, Z199	Z98 (CS71, CS72, CS74)		Z102	
76	3		Z110?				Z97, Z185	JACK TO VERIFY DIMMING SWICH
77	8		Z107?	Z105, Z111		WINDOW	Z104, Z112, Z113, exhaust fan	JACK TO VERIFY DIMMING SWICH
78	1						Z103	
79	1						Z114	
106	1						Z202	garage storage rm
MEDIA ROOM								
100	7	Z95 (CS71)		Z97, Z175, Z178		WINDOW, SCREEN (2)	Z176	Z175 (RECEPTACLES SPLIT IN HALF AND ONE DIMMED)
101	4			Z173, Z174			Z137, EXHAUST FAN	
102	4			Z115, Z181, Z183			Z182	Z115 (RECEPTACLES SPLIT IN HALF AND ONE DIMMED)
104	1						Z184	
BASEMENT								
51	1						Z78	
52	1	Z92 (CS53)						
53	1	Z92 (CS52)						
54	1						Z93	
55	1				Z80 (CS65, CS 66)			
56	1						Z79	
57	1						Z81	
58	1						Z82	
59	1						Z86	
60	3						Z87, Z88, EXHAUST FAN	
62 (WP)	2						Z83, Z84	WEATHERPROOF
63 (WP)	1	Z163 (CS65)						
65	2	Z163 (CS63)			Z80 (CS55, CS66),			
66	2	Z90 (CS67)			Z80 (CS55, CS65)			
67	1	Z90 (CS66)						
KITCHEN								
68 (WP)	2	Z131 (CS89)					Z16 (CS89)	Z16 DIMMABLE DRIVER IN BASEMENT
81	6	Z117 (CS86)		Z118, Z132, Z135, Z136 (CS86)			Z133	
82	1			Z122				
83	3			Z119, Z120			Z141	
84	1			Z121				
85	3			Z123,			Z124, Z125	
86	7	Z126 (CS94)		Z117 (CS81), Z127 (CS71), Z128, Z130, Z136 (CS81)			Z129	JACK TO VERIFY DIMMER Z128
88	19	Z6 (CS6), Z7 (CS6), Z10 (CS5), Z20 (CS6), Z23 (CS5), Z186 (CS5), Z187 (CS5), Z189 (CS5), Z190 (CS5), Z192 (CS2), Z198 (CS13), Z17 (CS5), Z18 (CS5), Z9 (CS6), Z188 (CS5),			Z163 (CS63, CS65), Z191 (CS5, CS87), Z21 (CS2, CS7)		Z195	
89	4			Z131 (CS68), Z16 (CS68)			Z139, Z138	
GAME ROOM								
94	3	Z156 (CS95)			Z126 (CS86, CS95)	WINDOW		
95	11			Z156 (CS94), Z159, Z164, Z169, Z165, Z194???	Z126 (CS86, CS94)		Z155, Z158, Z161, Z162,	JACK TO VERIFY DIMMER Z128
96	4			Z166, Z167			EXHAUST FAN, Z???	
97	2			Z160			Z170	

CS #	# OF SWITCHES	3-WAYS (ZONE)	DIM WHEEL	DIMMERS (ZONES)	4 WAY (ZONES)	MOTOR CONTROLLERS	SINGLE POLE	NOTES (?)		
STORAGE LEVEL										
34	1	Z73 (CS36)								
35	1	Z76 (CS48)								
36	2	Z73 (CS34)						Z61		
37	1							Z75		
38	2							Z68, Z69		
39	4							Z70, Z71, Z72, EXHAUST FAN		
41	1							Z63		
42	2							Z64, Z65		
43	2							Z66, Z67		
48	1	Z76 (CS35)								
CAPTAINS QUARTERS										
9	1				Z31 (CS10, CS13, CS33)					
10	1				Z31 (CS9, CS13, CS33)					
12	1							Z30		
13	4				Z33, Z34, Z31 (CS9, CS10, CS33), Z198 (CS88)					
14	1				Z32					
15	1				Z39					
16	1				Z40					
17	1							Z42		
18	2							Z43, Z46		
19	2							Z45, EXHAUST FAN		
20	2							Z44, Z60		
21	2							Z48, Z59		
22	2							Z49, Z50		
23	2							Z47, EXHAUST FAN		
24	1							Z51		
25	1							Z53		
26	1				Z52					
27	1							Z41		
28	1				Z54					
29	3				Z36			Z37, Z38		
30	1				Z35					
32	1							Z25		
33	1				Z31 (CS9, CS10, CS13)					
CABANA										
1	1							Z29		
3	2				Z11			EXHAUST FAN		
4	1							Z12		
5 (WP)	11	Z10 (CS88), Z23 (CS88), Z186 (CS88), Z189 (CS88), Z187+Z190 (CS88)		Z17 (CS88), Z18 (CS88), Z19 (CS88)			Z188 (CS88)	Z191 (CS87, CS88)	Z15	Z187 AND Z190 COMBINED ON SAME TRANSFORMER
6 (WP)	4	Z6 (CS88), Z7 (CS88)		Z20? (CS88),			Z9 (CS88)			
7	1							Z21 (Z2, Z88)		Z21 ON Claudia sheet used twice so changed to Z12
8	1							Z203		xformer room lights
STAIR ENTRY										
2 (WP)	2	Z192 (CS88)						Z21 (CS7, CS88)		Z21 ON Claudia sheet used twice so changed to Z12
SITE										
87 (WP)								Z191 (CS5, CS88)		
OUTSIDE PHOTOCELLS										
PHOTOCELL								Z47, Z91		Z1, Z4, Z74, Z91, (Z74 COMBINED INTO Z4)

CS #	# OF SWITCHES	3-WAYS (ZONE)	DIMMERS (ZONES)	4 WAY (ZONES)	MOTOR CONTROLLERS	SINGLE POLE	NOTES (?)
MASTER BEDROOM (E-1)							
71	4						
72	1	Z95 (CS100), Z127 (CS86)	Z96	Z98 (CS72, CS74, CS75) Z98 (CS71, CS74, CS75)			
73	1		Z108				
74	8		Z99?, Z109	Z98 (CS71, CS72, CS75)	Z193, Z197, SCREENS (2)	Z100	JACK TO VERIFY DIMMING SWITCH
75	4		Z199	Z98 (CS71, CS72, CS74)		Z101, Z102	
76	3		Z110?			Z97, Z185	JACK TO VERIFY DIMMING SWITCH
77	8		Z105, Z107?, Z111		WINDOW	Z104, Z112, Z113, Z201	JACK TO VERIFY DIMMING SWICH
78	1					Z103	
79	1					Z114	
106	1					Z202	
MEDIA ROOM (E-2)							
100	8	Z95 (CS71)	Z97, Z175, Z178		WINDOW, SCREEN (2)	Z176	Z175 (RECEPTACLES SPLIT IN HALF AND ONE DIMMED)
101	5		Z173, Z174			Z137, Z172, EXHAUST FAN	
102	4		Z115, Z181, Z183			Z182	Z115 (RECEPTACLES SPLIT IN HALF AND ONE DIMMED)
104	1					Z184	
						WINDOW	
BASEMENT (E-3)							
51	1					Z78	
52	1	Z92 (CS53)					
53	1	Z92 (CS52)					
54	1					Z93	
55	1			Z80 (CS65, CS 66)			
56	1					Z79	
57	1					Z81	
58	1					Z82	
59	1					Z86	
60	3					Z87, Z88, EXHAUST FAN	
62	2					Z83, Z84	WEATHERPROOF
63 (WEATHERPROOF)							
65	2						
66	2	Z90 (CS67)		Z163 (CS65, CS88) Z80 (CS55, CS66), Z163 (CS63, CS88)			
67	1	Z90 (CS66)		Z80 (CS55, CS65)			
KITCHEN (E-4)							
68 (WEATHERPROOF)							
81	6	Z16 (CS89), Z131 (CS89)	Z117 (CS86), Z118, Z132, Z135, Z136 (CS86)			Z133	
82	1		Z122				
83	3		Z119, Z120			Z141	
84	1		Z121				
85	3		Z123			Z124, Z125	
86	7	Z117 (CS81), Z136 (CS81)	Z127 (CS71), Z128, Z130	Z126 (CS81, CS94)		Z129	JACK TO VERIFY DIMMER Z128
88	21	Z6 (CS6), Z7 (CS6), Z9 (CS6), Z10 (CS5), Z17 (CS5), Z18 (CS5), Z19 (CS5), Z20 (CS6), Z23 (CS5), Z186 (CS5), Z187 (CS5), Z188 (CS5), Z189 (CS5), Z190 (CS5), Z192 (CS2), Z198 (CS13)		Z163 (CS63, CS65), Z191 (CS5, CS87), Z212 (CS2, CS7)		Z195	HOMELINK FLOODS??
89	4	Z16 (CS68), Z131 (CS68)	Z138?			Z139	JACK TO VERIFY DIMMER Z128
GAME ROOM (E-5)							
94	3	Z156 (CS95)		Z126 (CS86, CS95)	WINDOW		
95	10		Z156 (CS94), Z159, Z169, Z165??	Z126 (CS86, CS94)		Z155, Z158, Z161, Z162, Z164	JACK TO VERIFY DIMMER Z128
96	4		Z21, Z166, Z167			EXHAUST FAN	
97	2		Z160			Z170	
STORAGE LEVEL (E-7)							
34	1	Z73 (CS36)					
35	1	Z76 (CS48)				Z61	
36	2	Z73 (CS34)				Z75	
37	1					Z68, Z69	
38	2					Z70, Z71, EXHAUST FAN	
39	4					Z63	
41	1			Z72			
42	2					Z64, Z65	
43	2					Z66, Z67	
48	1	Z76 (CS35)					
CAPTAINS QUARTERS (E-8)							
9	1						
10	1		Z31 (CS9, CS13, CS33)	Z31 (CS10, CS13, CS33)			
12	1					Z30	
13	4	Z198 (CS88)	Z33, Z34	Z31 (CS9, CS10, CS33)			
14	2		Z32			Z55	
15	2		Z39			Z56	
16	1		Z40				
17	1					Z42	
18	2					Z43, Z46	
19	2					Z45, EXHAUST FAN	
20	2					Z44, Z60	
21	2					Z48, Z59	
22	2					Z49, Z50	
23	2					Z47, EXHAUST FAN	
24	1					Z51	
25	2					Z53, Z58	
26	2						
27	2					Z41, Z57	
28	2		Z52			Z24	
29	3		Z54			Z37, Z38	
30	1		Z36				
32	1		Z35			Z25	
33	1						
CABANA (E-9)							
1	1					Z29	
3	2		Z11			EXHAUST FAN	
4	1					Z12	
5 (WEATHERPROOF)	11	Z10 (CS88), Z17 (CS88), Z18 (CS88), Z19 (CS88), Z23 (CS88), Z186 (CS88), Z188 (CS88), Z189 (CS88), Z187+Z190 (CS88)		Z191 (CS87, CS88)		Z15	Z187 AND Z190 COMBINED ON SAME TRANSFORMER
6 (WEATHERPROOF)	4	Z6 (CS88), Z7 (CS88), Z9 (CS88)	Z20? (CS88)	Z212 (Z2, Z88)			Z21 ON CLAUDIA SHEET USED TWICE SO CHANGED TO Z12
7	1					Z203	
8	1						
STAIR ENTRY (E-10)							
2 (WEATHERPROOF)	2	Z192 (CS88)					Z21 ON CLAUDIA SHEET USED TWICE SO CHANGED TO Z12
SITE (E-11)							
87 (WEATHERPROOF)				Z191 (CS5, CS88)			
OUTSIDE PHOTOCELLS							
PHOTOCELL							Z1, Z4, Z74, Z91, (Z74 COMBINED INTO Z4)