

HVAC SYMBOLS LEGEND

- THERMOSTAT, MTD +47" AFF
- EXHAUST FAN
- SECTION "A"- "A"
- REMOTE BULB SENSOR
- DUCT SMOKE DETECTOR
- TRANSITION
- TURNING VANE
- 45° BRANCH DUCT TAKE-OFF
- FIRE DAMPER
- VOLUME CONTROL DAMPER
- RETURN REGISTER
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- SUPPLY REGISTER
- AIR FLOW DIRECTION
- ROOF MTD. EXH. FAN
- DUCT TURN DOWN
- DUCT TURN UP
- FLEXIBLE DUCT

H.V.A.C. ABBREVIATION LEGEND

A/C	AIR CONDITIONER	REV.	REVISION	A.H.U.	AIR HANDLING UNIT
DN.	DOWN	N.T.S.	NOT TO SCALE	D.G.	DOOR GRILLE
EXH.	EXHAUST	MFR.	MANUFACTURER	F.I.D.	FIRE DAMPER
EXT.	EXTERIOR	R/A	RETURN AIR	DISP.	DISPOSABLE
E.F.	EXHAUST FAN	GR.	GRILLE	V.C.D.	VOLUME CONTROL DAMPER
A.F.F.	ABOVE FINISH FLOOR	C.D.	CILING DIFFUSER	F/A	FRESH AIR
F.F.	FINISH FLOOR	REG.	REGISTER	S.P.	SAFE PAN
TYP.	TYPICAL	C.U.	CONDENSING UNIT	CD.	CONDENSATE DRAIN

MECHANICAL SPECIFIC NOTES

- ① 3" TOILET EXHAUST UP THRU CORRIDOR WALL TO ROOF. REFER TO TYPICAL EXHAUST RISER ON SHEET M-4.
- ② REFRIGERANT PIPING FROM ABOVE. OFFSET ACROSS CEILING TO EXTERIOR WALL AS INDICATED.

(2) 18x16 "PENN" MODEL M48 STORM LOUVERS (1) HIGH W/TOP OF LOUVER AT 8'-0" A.F.F., (1) LOW, 12" A.F.F. FOR DRYER ROOM COMBUSTION AIR. NFPA 54 COMBUSTION AIR CALCS: TOTAL BTU OF ALL APPLIANCES IS 370,000 BTU. ACCORDING TO NFPA 54, 402.4.2, 150. INCH PER 4,000 BTU IS REQUIRED WHICH EQUALS 92.5 SQ. INCHES. THE 18X16 LOUVER HAS 288 SQ. INCHES W/ A 40% FREE AREA FACTOR, OR 115 SQ. INCHES AVAILABLE.

5'x16" DRYER EXH. LOUVER, W/5'x16"X12" DUCT PLENUM INSTALLED BEHIND LOUVER FOR DRYER EXH. CONNECTIONS.

FULL LOUVERED DOOR FOR BOILER ROOM COMBUSTION AIR. NFPA 54 COMBUSTION AIR CALCS: TOTAL BTU OF ALL APPLIANCES IS 650,000 BTU. ACCORDING TO NFPA 54, 402.4.2, 150. INCH PER 4,000 BTU IS REQUIRED WHICH EQUALS 162 SQ. INCHES. THE FULL LOUVERED DOOR EXCEEDS THIS AMOUNT.

SUPPLY DIFFUSER SCHEDULE

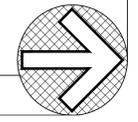
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"ø	0 - 125	12X12 LOUVERED FACE
B	TITUS TDC-AA	6"ø	0 - 125	24X24 LOUVERED FACE
C	TITUS TDC-AA	8"ø	130 - 200	24X24 LOUVERED FACE
D	TITUS TDC-AA	10"ø	205 - 325	24X24 LOUVERED FACE
E	TITUS TDC-AA	6x6	0 - 125	12X12 LOUVERED FACE
F	TITUS TDC-AA	9x9	130 - 275	24X24 LOUVERED FACE
G	TITUS TDC-AA	12X12	280 - 500	24X24 LOUVERED FACE
H	TITUS 300RL	10x6	155 - 200	SIDEWALL REGISTER
I	TITUS 300RL	14x6	205 - 300	SIDEWALL REGISTER

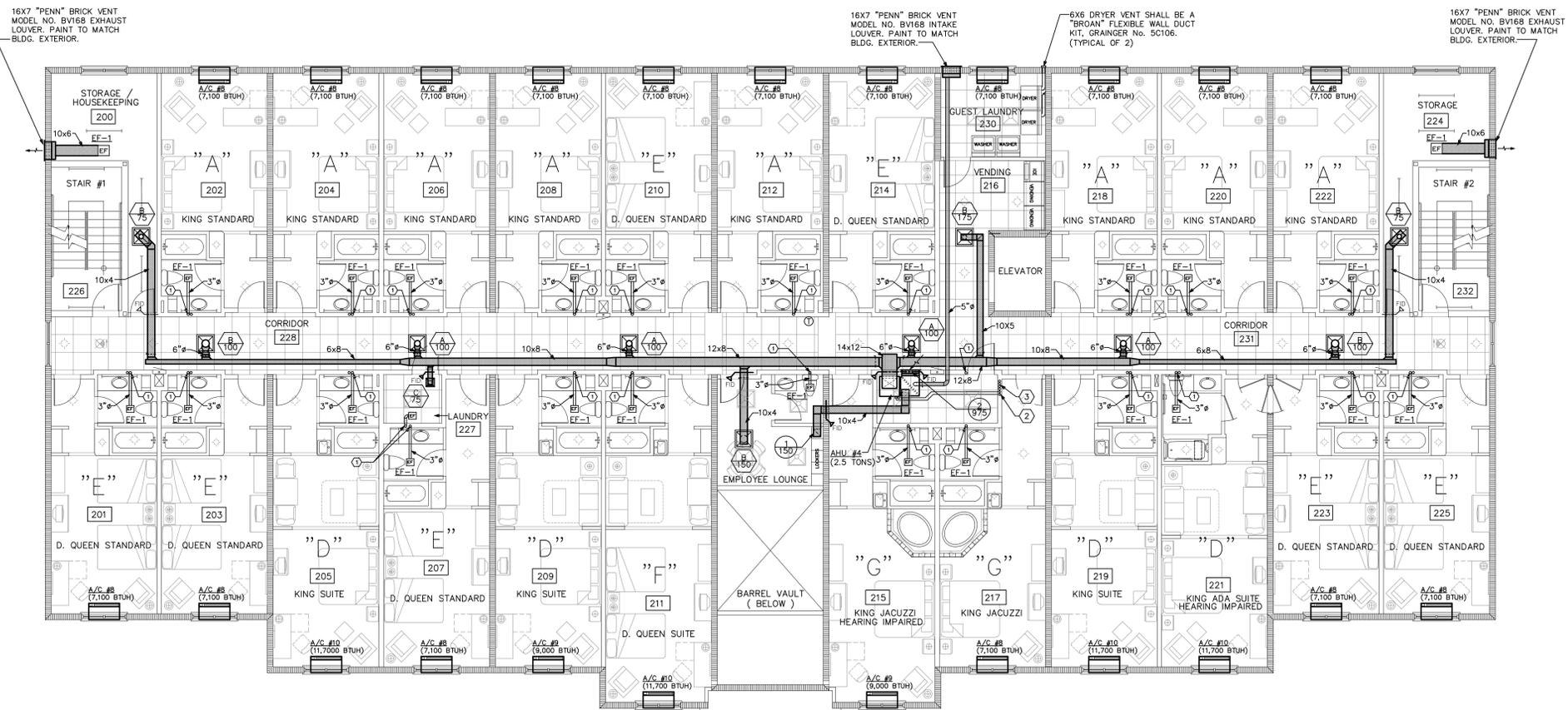
RETURN GRILLE SCHEDULE

LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	10X10	0 - 400	
2	TITUS 355FL	12X12	400 - 650	
3	TITUS 355FL	14x14	655 - 800	
4	TITUS 355FL	24X24	805 - 2000	

GROUND FLOOR PLAN

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





MECHANICAL SPECIFIC NOTES

- 3" TOILET EXHAUST UP THRU CORRIDOR WALL TO ROOF. REFER TO TYPICAL EXHAUST RISER ON SHEET M-4.
- REFRIGERANT PIPING DOWN TO FLOOR BELOW.
- REFRIGERANT PIPING FROM ABOVE AND DOWN TO FLOOR BELOW.

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.

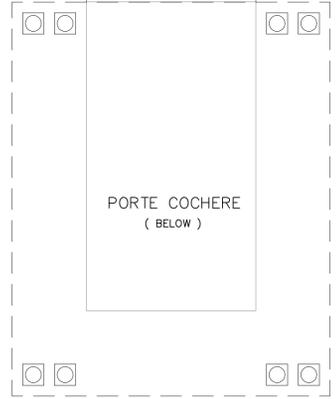
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"	0 - 125	24X24 LOUVERED FACE
B	TITUS TDC-AA	8"	130 - 200	24X24 LOUVERED FACE
C	TITUS TDC-AA	6"	0 - 125	12X12 LOUVERED FACE

RETURN GRILLE SCHEDULE

DESIGNATES LABEL FOR GRILLE TYPE. FILTER SHALL BE PROVIDED AT UNIT.

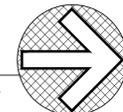
DESIGNATES CFM QUANTITY FOR GRILLE.

LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	10x10	0 - 400	
2	TITUS 355FL	24X24	405 - 2000	



SECOND FLOOR PLAN

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



OUTSIDE AIR CALCULATIONS			
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "CORRIDOR" CATEGORY = .05 CFM PER SQ. FT.			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
AHU #1	710	710 / 1000 X ---	710 X .05 = 35.5
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "PLAYING FLOORS" CATEGORY = 30 PEOPLE PER 1,000 SQ. FT. & 20 CFM PER PERSON			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
AHU #1	280	280 / 1000 X 30 = 8.4	8.4 X 20 = 168
TOTAL OUTSIDE AIR CFM FOR AHU #3 = 161			

OUTSIDE AIR CALCULATIONS			
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "CORRIDOR" CATEGORY = .05 CFM PER SQ. FT.			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
AHU #2	510	510 / 1000 X ---	510 X .05 = 25.5
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "HOTEL LOBBY" CATEGORY = 30 PEOPLE PER 1,000 SQ. FT. & 15 CFM PER PERSON			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
AHU #2	254	254 / 1000 X 30 = 8	8 X 15 = 120
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "OFFICE" CATEGORY = 7 PEOPLE PER 1,000 SQ. FT. & 20 CFM PER PERSON			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
AHU #2	435	435 / 1000 X 7 = 4	4 X 20 = 80
TOTAL OUTSIDE AIR CFM FOR AHU #3 = 225			

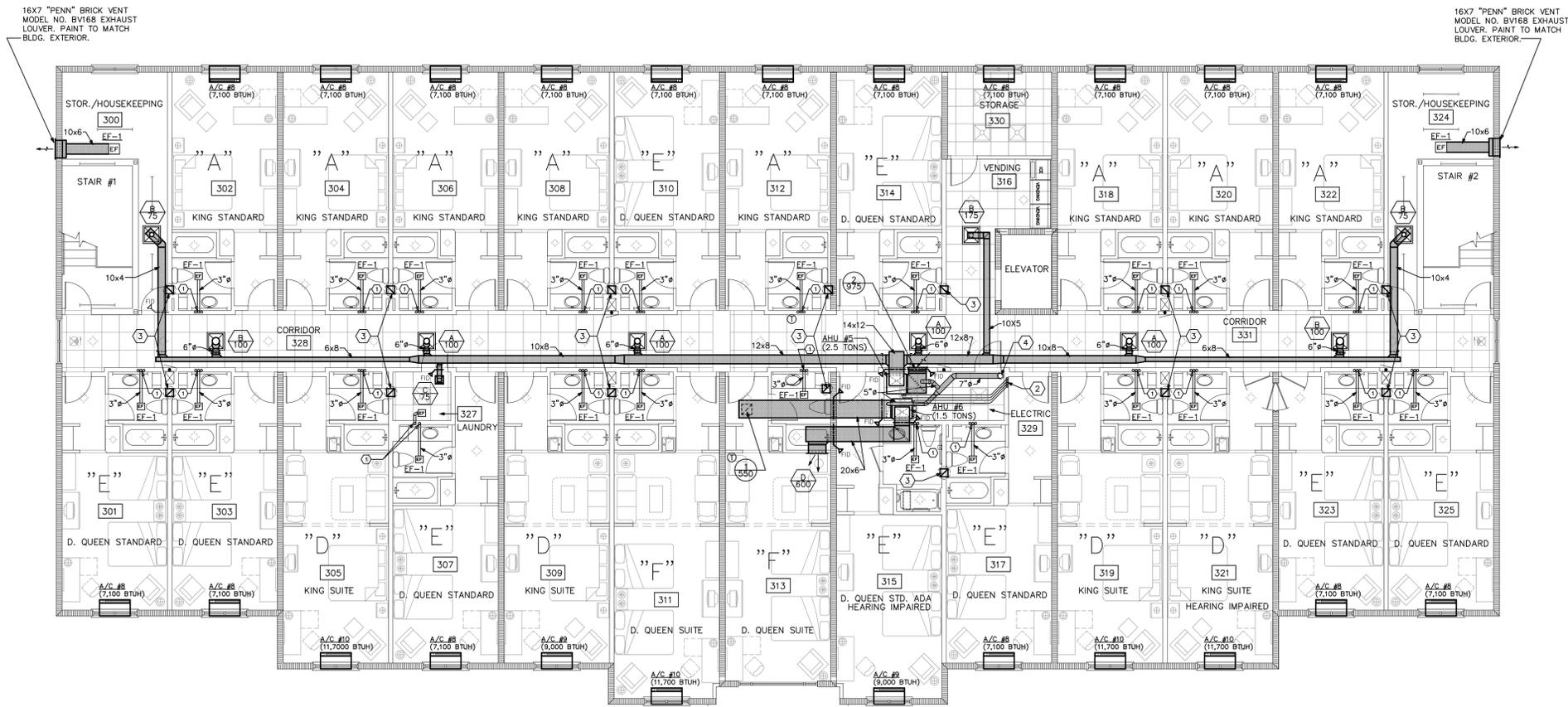
OUTSIDE AIR CALCULATIONS			
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "ASSEMBLY" CATEGORY = 29 PEOPLE AS PER ARCHITECTURAL PLANS AND 15 CFM PER PERSON.			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
AHU #3	925	- / 1000 X - = -	29 X 15 = 435/2=217.5
THE OCCUPANCY OF THIS FACILITY DOES NOT EXCEED THREE HOURS AT ANY TIME, THEREFORE THE FACILITY QUALIFIES FOR REDUCTION OF OUTSIDE AIR IN ACCORDANCE WITH THE ASHRAE STANDARD 62 SECTION 6.1.3.4. THE AVERAGE OCCUPANCY IS LESS THAN 1/2 THE MAXIMUM CALCULATED OCCUPANCY, SO THE FRESH AIR PROVIDED WILL BE 1/2 THE CALCULATED IN ACCORDANCE WITH SECTION 6.1.3.4.			

OUTSIDE AIR CALCULATIONS			
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "CORRIDOR" CATEGORY = .05 CFM PER SQ. FT.			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
AHU #4	1,300	1,300 / 1000 X ---	1,300 X .05 = 65
AHU #5	1,300	1,300 / 1000 X ---	1,300 X .05 = 65

OUTSIDE AIR CALCULATIONS			
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "HOTEL BEDROOMS" CATEGORY = 30 CFM PER ROOM			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
AHU #6	-	- / 1000 X - = -	2 X 30 = 60

OUTSIDE AIR CALCULATIONS			
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "HOTEL BEDROOMS" CATEGORY = 30 CFM PER ROOM			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
A/C #8	-	- / 1000 X - = -	1 X 30 = 30
A/C #9	-	- / 1000 X - = -	1 X 30 = 30
A/C #10	-	- / 1000 X - = -	1 X 30 = 30

OUTSIDE AIR CALCULATIONS			
THE FOLLOWING IS BASED ON ASHRAE STANDARD 62 FOR OUTSIDE AIR REQUIREMENTS: OUTDOOR AIR REQUIREMENTS ARE BASED ON "LAUNDRY" CATEGORY = 10 PEOPLE PER 1,000 SQ. FT. & 25 CFM PER PERSON			
UNIT LABEL	AREA SERVED (SQ. FT.)	ESTIMATED MAX. OCCUPANCY	OUTSIDE AIR REQUIRED (CFM)
A/C #11	565	565 / 1000 X 10 = 6	6 X 20 = 120



- MECHANICAL SPECIFIC NOTES**
- 3" TOILET EXHAUST UP THRU CORRIDOR WALL TO ROOF. REFER TO TYPICAL EXHAUST RISER ON SHEET M-4.
 - REFRIGERANT PIPING DOWN TO FLOOR BELOW.
 - 10X10 EXHAUST PLENUM UP TO EF-4 ON ROOF. REFER TO TYPICAL EXHAUST RISER DIAGRAM ON SHEET M-4.
 - 7" OUTSIDE AIR DUCT UP THRU ROOF TO ROOF CAP.

SUPPLY DIFFUSER SCHEDULE

DESIGNATES LABEL FOR DIFFUSER TYPE
DESIGNATES CFM QUANTITY FOR DIFFUSER

ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.

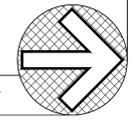
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"	0 - 125	24X24 LOUVERED FACE
B	TITUS TDC-AA	8"	130 - 200	24X24 LOUVERED FACE
C	TITUS TDC-AA	6"	0 - 125	12X12 LOUVERED FACE
D	TITUS 300RL	24X6	500 - 625	SIDEWALL REGISTER

RETURN GRILLE SCHEDULE

DESIGNATES LABEL FOR GRILLE TYPE
DESIGNATES CFM QUANTITY FOR GRILLE

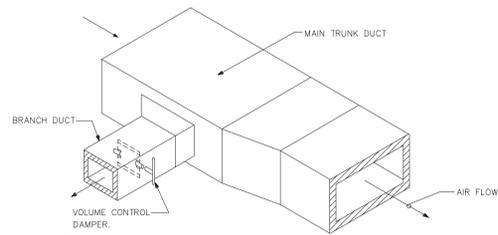
FILTER SHALL BE PROVIDED AT UNIT.

LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	14X14	500 - 600	
1	TITUS 355FL	24X24	805 - 2000	

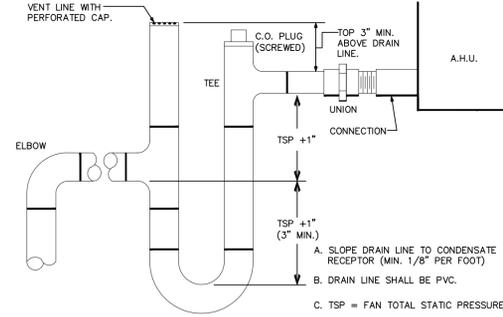


GENERAL MECHANICAL NOTES

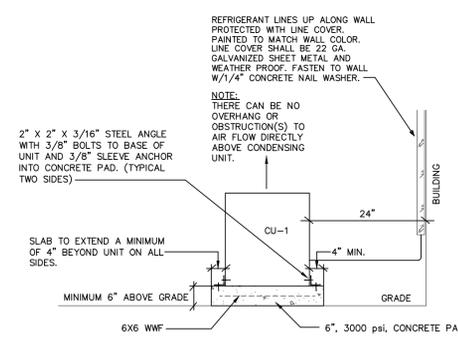
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS: SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-9.1 MECHANICAL REFRIGERATION. 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.
- THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES TO INSURE AN ORDERLY PROGRESS OF THIS WORK.
- THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS UPON COMPLETION OF THIS PROJECT.
- CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
- 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-6.
- 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 TITUS, METALAIR, AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
- THERMOSTAT SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE, HONEYWELL OR EQUAL.
- REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER SOLDER-JOINT TYPE FITTINGS, USE 95/5 SOLDER. REFRIGERANT LINES SHALL SIZED AS PER MANUFACTURER RECOMMENDATIONS.
- ARMAFLEX 3/4" INSULATION SHALL BE USED FOR SUCTION LINES, FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
- ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEES MUST BE FURNISHED W/TURNING VANES. PROVIDE 45° BRANCH TAKE-OFF AS PER BRANCH DUCT TAKE-OFF DETAIL.
- PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.
- PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM.
- PROVIDE TYPE "B" FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT O/A INTAKES. PROVIDE RADIATION RADIATION DAMPERS IN RATED CEILING FOR ALL CEILING OPENINGS, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY.
- HVAC CONTRACTOR SHALL PROVIDE AN INDEPENDENT TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS. THE T & B SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS, AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLS, RETURN GRILLS, AND EXHAUST GRILLS, AND THE LEAVING AND ENTERING AIR TEMPERATURE (°F) FROM SUPPLY GRILLS AND EXHAUSTORS.
- THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEERS BEFORE INSTALLATION.
- ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
- 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.
- NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILING USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK TO DECK PARTITIONS, AIR TRANSFER DUCTS MUST BE INSTALLED.
- REFER TO PLUMBING PLANS FOR ALL CONDENSATE PIPING.
- IF PROJECT IS A REMODEL OF AN EXISTING BUILDING, THE CONTRACTOR SHALL VISIT JOB SITE PRIOR TO CONSTRUCTION AND COORDINATE ALL EXISTING FIELD CONDITIONS. ARCHITECT AND/OR ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND A SUSTAINED 120 MPH WIND WITH A GUST FACTOR OF 30%. PROVIDE A LISTED PRE-ENGINEERED ASSEMBLY, OR THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CERTIFICATION OF ROOF MOUNTING.
- PROVIDE ALL NECESSARY CONTACTORS, RELAYS, ETC., FOR A COMPLETE OPERATING A/C UNIT.
- THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE PLANS AND SPECIFICATIONS MAY BE REQUESTED BY THE OWNER. THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE OWNER, WHERE SUCH ADJUSTMENTS ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEMS, AND WITHIN THE INTENT OF THE CONTRACT DOCUMENTS.
- IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO FORM A GUIDE FOR A COMPLETE INSTALLATION. EVERYTHING NECESSARY FOR THE COMPLETION AND SUCCESSFUL OPERATION OF THE WORK, WHETHER OR NOT HEREBY SPECIFIED OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED AS WELL AS FAITHFULLY AS IF SO SPECIFIED OR INDICATED WITHOUT ADDITIONAL COST TO THE TENANT. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LENGTHS PRIOR TO INSTALLATION.
- NOTWITHSTANDING ANY OTHER PROVISIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR BEARS ULTIMATE RESPONSIBILITY FOR COMPLIANCE OF THE INSTALLATION WITH THE REQUIREMENTS OF THE LANDLORD AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- 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.



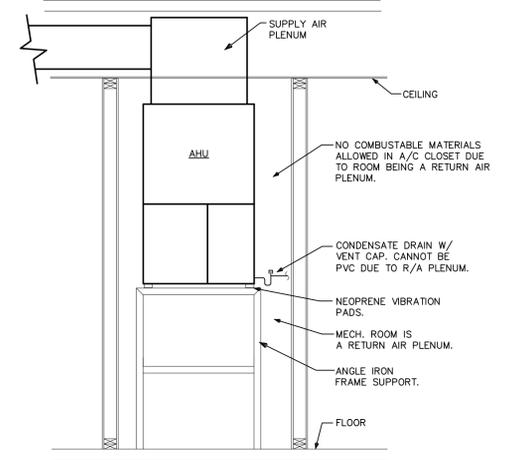
2 BRANCH DUCT DETAIL
NO SCALE



1 COND. P-TRAP DETAIL
NO SCALE



3 MOUNTING DETAIL
NO SCALE



4 AHU MOUNTING DETAIL
NO SCALE

ROOM MINI-SPLIT HEAT PUMP SCHEDULE									
SYS. LABEL	MANUFACTURER	MODEL NO.	TOTAL CAPACITY	FAN SPEED	AMPERAGE RATING	MAXIMUM FUSE	VOLTAGE	EER/SEER	NOTES
A/C #7	SANYO	09KH11	9,000 BTUH	3-SPEED	8.2	15	120V/1φ	10.0	

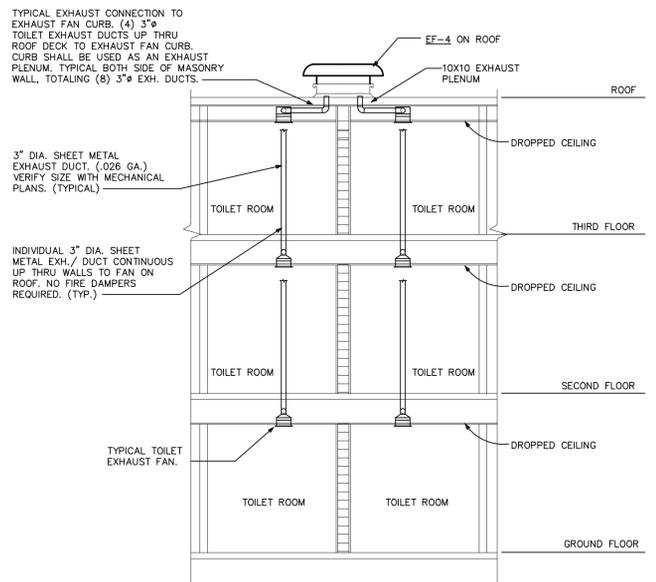
GENERAL NOTES:
1.) POWER SUPPLY IS TO OUTDOOR UNIT, INTERCONNECTING WIRING FROM OUTDOOR UNIT TO INDOOR UNIT. REFER TO ELECTRICAL PLANS FOR CONTROL.

ROOM AIR CONDITIONING SCHEDULE										
SYS. LABEL	MANUFACTURER	MODEL NO.	HEATER KW	TOTAL CAPACITY	FAN SPEED	AMPERAGE RATING FLA	MAXIMUM FUSE	VOLTAGE	EER	NOTES
A/C #8	GENERAL ELECTRIC	ZONELINE AZ25E07D	2.0 K.W.	7,100	TWO SPEED	2.8	20A	208V/1φ	11.8	1,2
A/C #9	GENERAL ELECTRIC	ZONELINE AZ25E09D	3.0 K.W.	9,000	TWO SPEED	3.6	20A	208V/1φ	11.5	1,2
A/C #10	GENERAL ELECTRIC	ZONELINE AZ25E12D	3.0 K.W.	11,700	TWO SPEED	4.9	20A	208V/1φ	10.9	1,2
A/C #11	GENERAL ELECTRIC	ZONELINE AZ25E12D	4.0 K.W.	14,600	TWO SPEED	7.0	30A	208V/1φ	9.6	1,2

GENERAL NOTES:
1.) UNIT SHALL BE FLUSH MOUNTED TO EXTERIOR WALL AND SHALL BE PROVIDED WITH AN ALUMINUM ARCHITECTURAL GRILLE G.E. MODEL RA61.
2.) UNIT SHALL BE PROVIDED WITH A WALL CASE G.E. MODEL RA871.

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/1φ	1
EF-2	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z7	190	.125"	CEILING MOUNTED	68 WATTS	OPEN DRIP PROOF	1640	115V/1φ	1
EF-3	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z81	300	.125"	CEILING MOUNTED	124 WATTS	OPEN DRIP PROOF	1115	115V/1φ	1
EF-4	PROPELLER FAN - REFER TO PLANS	PENN DOMEK MODEL AMBR	250	.250"	ROOF MOUNTED	1/33 HP	OPEN DRIP PROOF	1550	115V/1φ	1

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



5 TYPICAL TOILET EXHAUST RISER
NO SCALE

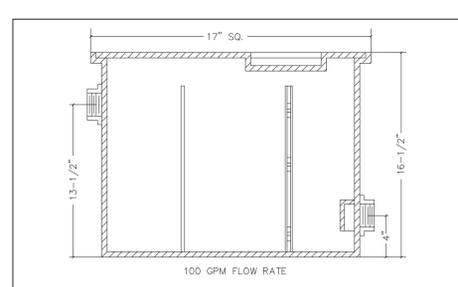
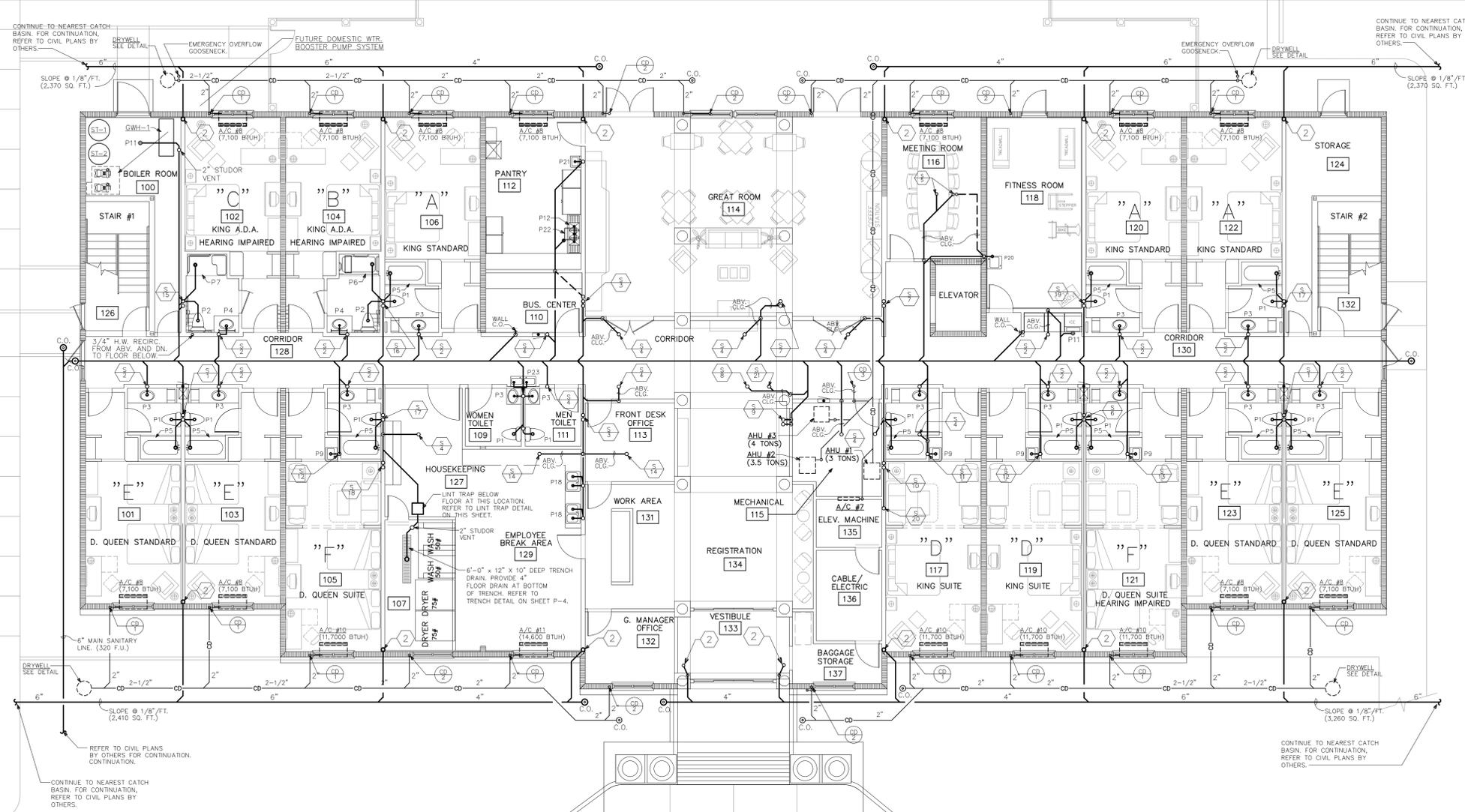
SPLIT SYSTEM AIR CONDITIONING SCHEDULE										AIR HANDLING UNIT									
CU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CAPACITY	SENSIBLE CAPACITY	COMP. RLA	FAN FLA	VOLTAGE	M COP	EER/SEER		AHU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CFM	O/A CFM	E.S.P.	BLOWER SPEED	FAN HP	HEATER KW	VOLTAGE	NOTES
CU #1	CARRIER 38CQ-036-501	34,000	25,700	10.0	1.4	208V/3φ	20A	10.0		AHU-1	CARRRIER FB4AN036	1,200	SEE SCH.	.30"	HIGH	1/3 HP	5.0	208V/1φ	1 THRU 6
CU #2	CARRIER 38CQ-042-501	40,000	29,100	13.6	1.4	208V/3φ	25A	10.0		AHU-2	CARRRIER FB4AN042	1,400	SEE SCH.	.30"	HIGH	1/2 HP	5.0	208V/1φ	1 THRU 6
CU #3	CARRIER 38CQ-048-501	46,000	32,700	13.5	1.4	208V/3φ	25A	10.0		AHU-3	CARRRIER FB4AN048	1,600	SEE SCH.	.30"	MED.	3/4 HP	5.0	208V/1φ	1 THRU 6
CU #4	CARRIER 38CQ-030-501	28,000	20,100	9.4	0.8	208V/3φ	20A	10.0		AHU-4	CARRRIER FB4AN030	1000	SEE SCH.	.30"	HIGH	1/3 HP	3.0	208V/1φ	1 THRU 6
CU #5	CARRIER 38CQ-030-501	28,000	20,100	9.4	0.8	208V/3φ	20A	10.0		AHU-5	CARRRIER FB4AN030	1000	SEE SCH.	.30"	HIGH	1/3 HP	3.0	208V/1φ	1 THRU 6
CU #6	CARRIER 38CQ-018-501	17,200	12,000	9.0	0.8	208V/1φ	20A	10.0		AHU-6	CARRRIER FB4AN018	600	SEE SCH.	.30"	HIGH	1/4 HP	3.0	208V/1φ	1 THRU 6

GENERAL NOTES:
* ALL RATINGS ARE AT ARI ENTERING CONDITIONS UNLESS OTHERWISE NOTED.
* PROVIDE VIBRATION ISOLATION FOR UNITS.
* INTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL OR FILTER PRESSURE DROP.
* CONTRACTOR MAY SUBSTITUTE MANUFACTURER FOR APPROVED EQUAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ANY CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.

ABBREVIATION LEGEND:
O/A - OUTSIDE AIR
HP - HORSE POWER
RLA - RUNNING LOAD AMPS
FLA - FULL LOAD AMPS

M COP - MAX. OVERCURRENT PROTECTION (DUAL ELEMENT TYPE FUSE)
E.S.P. - EXTERNAL STATIC PRESSURE
EER - ENERGY EFFICIENCY RATIO
SEER - SEASONAL ENERGY EFF. RATIO

SPECIFIC NOTES:
1) SIZE AND RUN REFRIGERANT PIPING AS PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.
2) INSULATE REFRIGERANT SUCTION LINE WITH 3/4" ARMAFLEX OR APPROVED EQUAL.
3) INSTALL CHEMICAL DRYER AND STRAINER IN REFRIGERANT LIQUID LINE.
4) PROVIDE 5 YEAR WARRANTY ON COMPRESSOR AND 1 YEAR WARRANTY ON ALL PARTS AND LABOR.
5) HEATER SHALL BE PROVIDED WITH 24 VOLT CONTROL.
6) PROVIDE BUILT-IN DISCONNECT/CIRCUIT BREAKER IN AIR HANDLING UNIT.



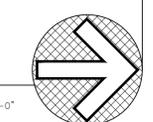
NOTE:
LINT TRAP SHALL BE A "ZURN" MODEL Z-1185 ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL LINT INTERCEPTOR, NON-SKID SECURED COVER, WITH STAINLESS LINT INTERCEPTING SECONDARY SCREEN ASSEMBLY AND PERMANENT PRIMARY STRAINING BAFFLE.

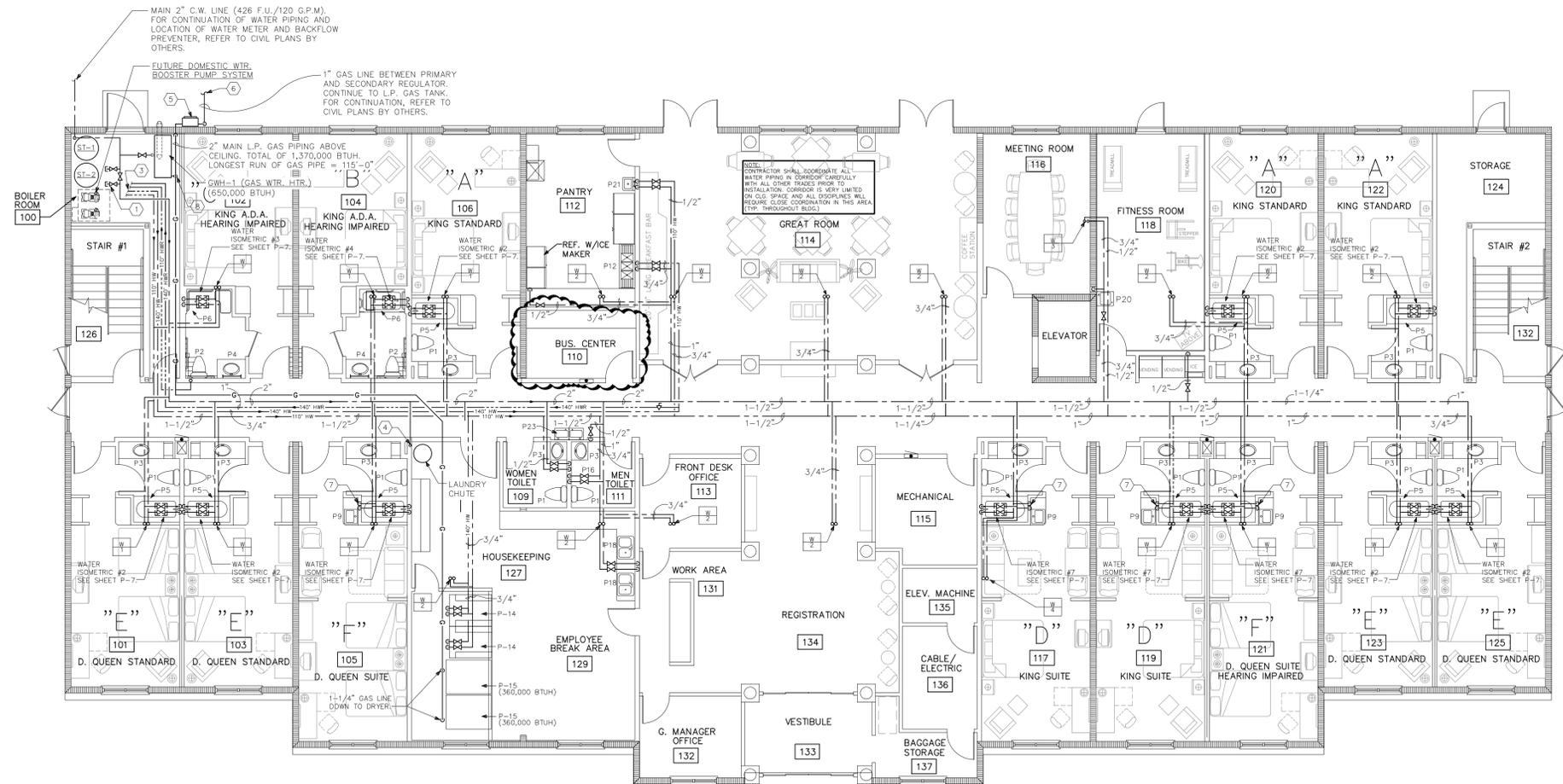
LINT TRAP DETAIL

- PLUMBING SPECIFIC NOTES**
- ① LAUNDRY CHUTE SPRINKLER HEAD. REFER TO DETAIL ON SHEET P-4.
 - ② 4" RAIN WATER LEADER FROM ABOVE AND DOWN TO FLOOR BELOW.

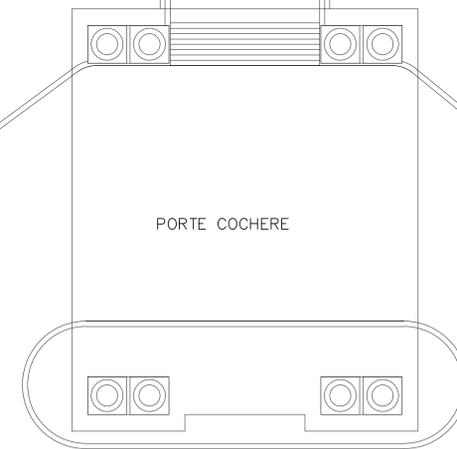
GROUND FLOOR PLAN – PLUMBING (SANITARY, STORM DRAIN AND CONDENSATE PIPING)

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



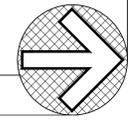


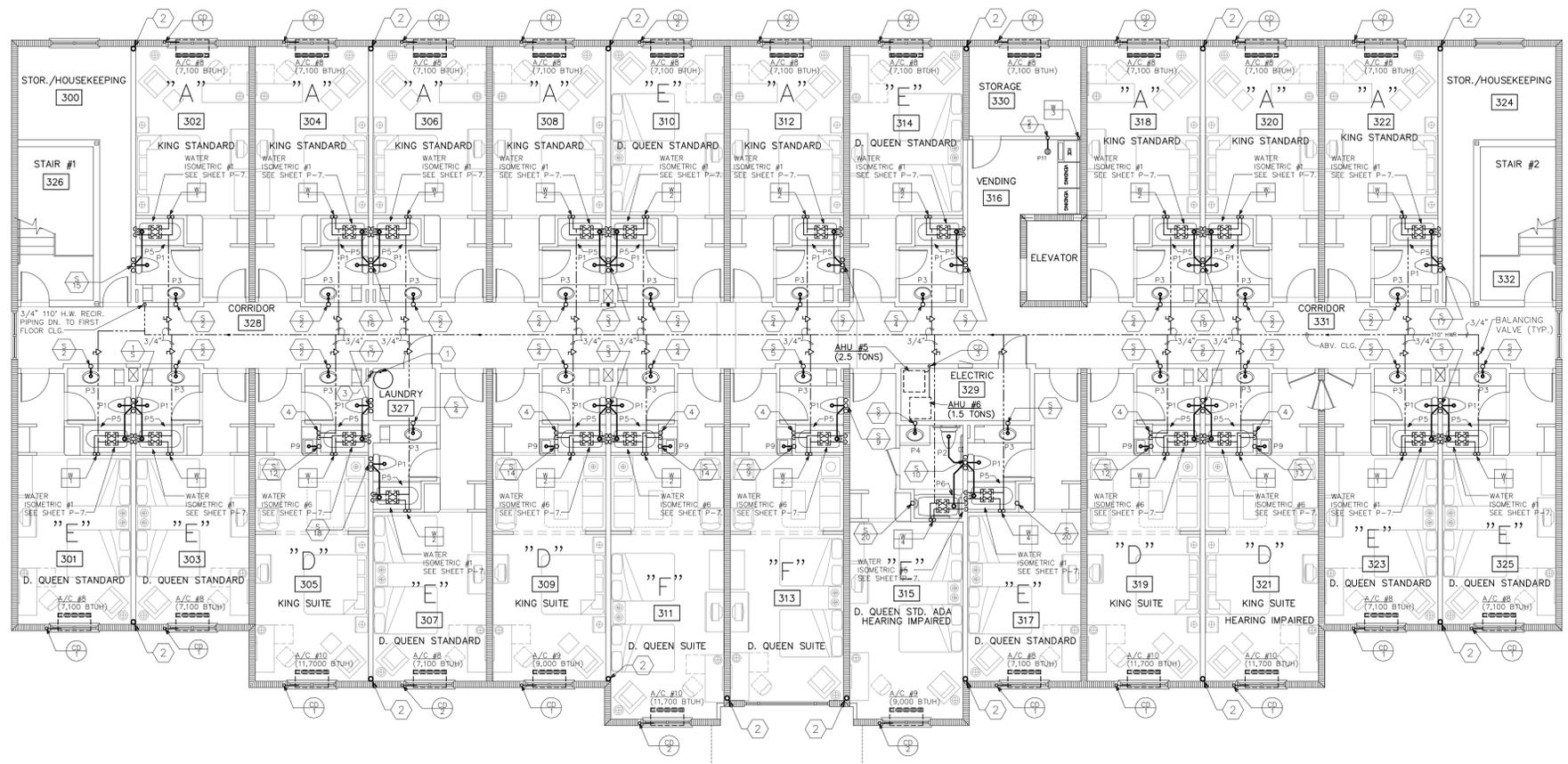
- PLUMBING SPECIFIC NOTES**
- 1 2" C.W. VALVED AND CAPPED FOR CONNECTION TO FUTURE DOMESTIC WATER BOOSTER PUMP.
 - 2 140° HOT WATER RECIRCULATING PIPE BALANCING VALVE.
 - 3 2" C.W. 1-1/2" H.W. 1" 140° H.W. 3/4" H.W. REG. & 3/4" H.W. REG. TO BOILER ROOM. REFER TO BOILER ROOM PIPING SCHEMATIC ON SHEET P-4 FOR PIPING ARRANGEMENT AT WATER HEATER.
 - 4 1/2" C.W. PIPING UP TO LAUNDRY CHUTE SPRINKLER HEAD.
 - 5 SECONDARY L.P. GAS REGULATOR.
 - 6 CONTINUE TO PRIMARY L.P. GAS REGULATOR AT L.P. GAS TANK. FOR CONTINUATION OF GAS PIPING AND LOCATION OF L.P. TANK, REFER TO CIVIL PLANS BY OTHERS.
 - 7 PROVIDE WATER PIPING SHUT-OFF VALVES BELOW COUNTER FOR THIS BAR SINK.
 - 8 3/4" GAS LINE DOWN TO GAS WATER HEATER.



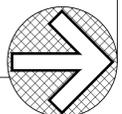
GROUND FLOOR PLAN – PLUMBING (WATER AND GAS PIPING)

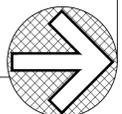
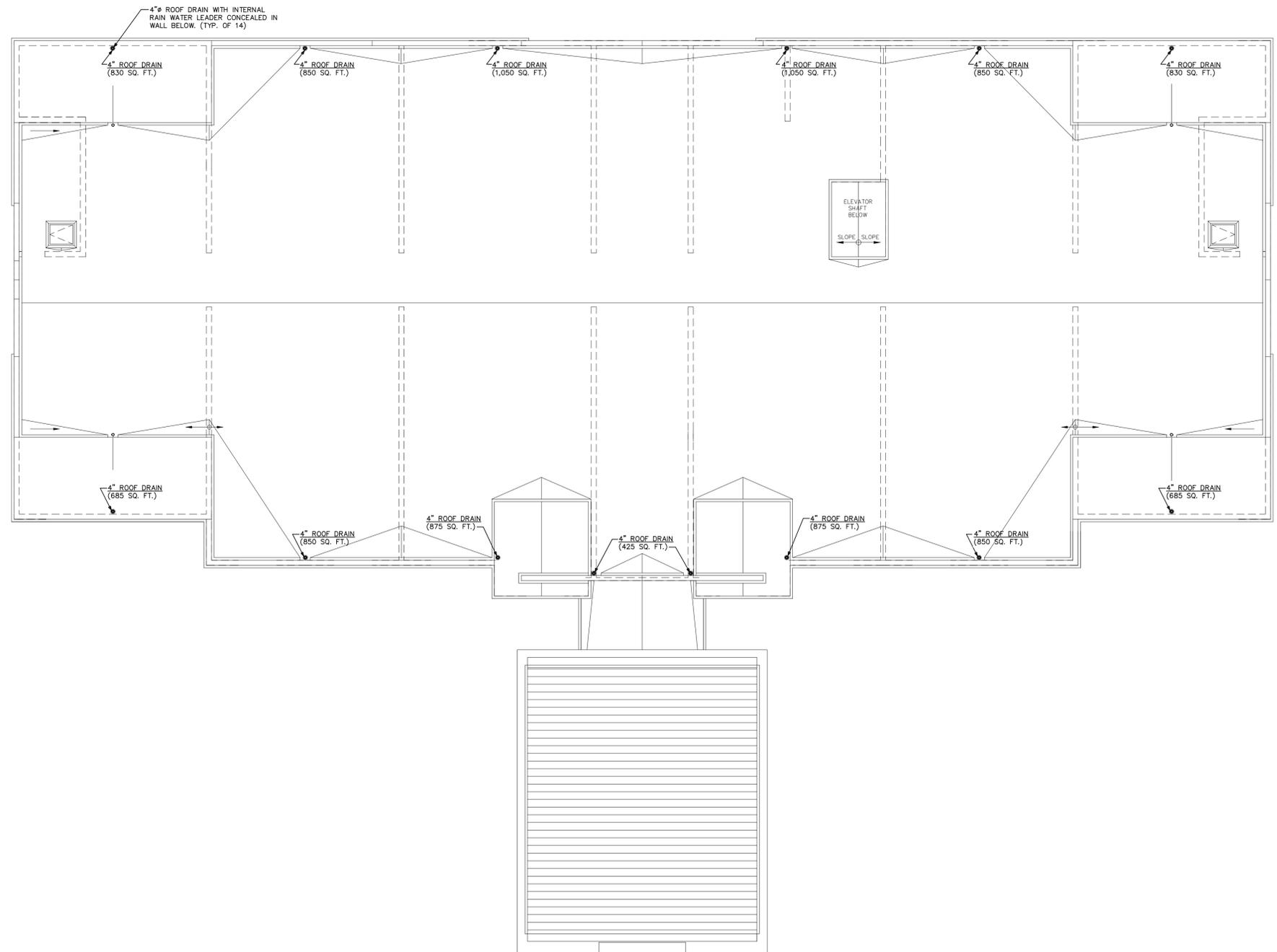
SCALE : 1/8" = 1'-0"

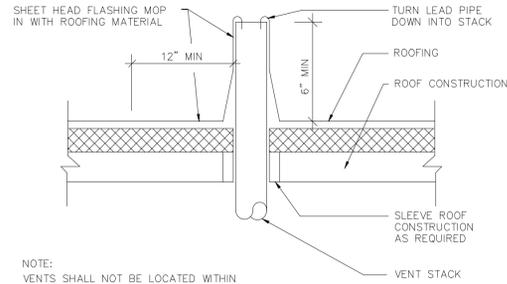




- PLUMBING SPECIFIC NOTES**
- ① LAUNDRY CHUTE SPRINKLER HEAD. REFER TO DETAIL ON SHEET P-4.
 - ② 4" RAIN WATER LEADER FROM ABOVE AND DOWN TO FLOOR BELOW.
 - ③ 1/2" LAUNDRY CHUTE SPRINKLER RISER.
 - ④ PROVIDE WATER PIPING SHUT-OFF VALVES BELOW COUNTER FOR THIS BAR SINK.

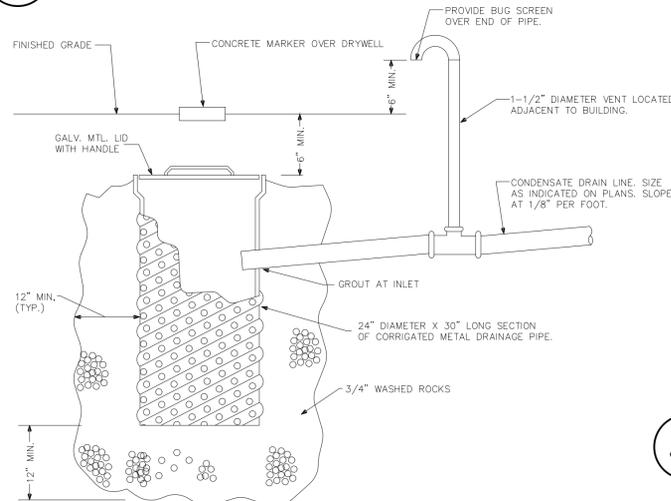






NOTE:
VENTS SHALL NOT BE LOCATED WITHIN
10 FEET OF ANY DOOR, WINDOW, OR
EXHAUST OPENING.

1 VENT THRU ROOF DETAIL NO SCALE



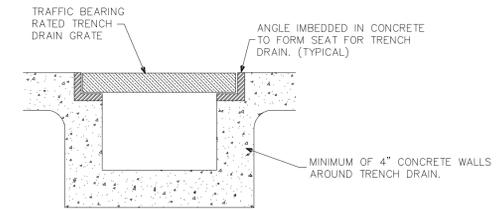
2 DRYWELL DETAIL NO SCALE

PLUMBING ABBREVIATION LEGEND

DN.	DOWN	C.C.	CENTER TO CENTER	F.U.	FIXTURE UNITS
EXT.	EXTERIOR	N.T.S.	NOT TO SCALE	H.B.	HOSE BIBBS
F.D.	FLOOR DRAIN	MFOR.	MANUFACTURER	C.O.	CLEANOUT
F.F.	FINISH FLOOR	S.O.V.	SHUT OFF VALVE	E.W.H.	ELECTRIC WATER HEATER
A.F.F.	ABOVE FINISH FLOOR	W.C.	WATER CLOSET	JAN.SK.	JANITOR SINK
V.T.R.	VENT THRU ROOF	LAV.	LAVATORY	P & T	PRESSURE & TEMPERATURE
TYP.	TYPICAL	SK.	SINK	RWL.	RAIN WATER LEADER
R.D.	ROOF DRAIN	D.W.	DISH WASHER		
REV.	REVISION	E.D.F.	ELECTRIC DRINKING FOUNTAIN		
O.C.	ON CENTER	UR.	URINAL		

PLUMBING SYMBOLS LEGEND

⊙	FLOOR DRAIN
⊕	HOSE BIBB
⊖	CLEANOUT
⊔	RELIEF VALVE
⊓	AIR CHAMBER
⊕	UNION
—	SOIL OR WASTE LINE
---	SANITARY VENT LINE
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
---	DOMESTIC WATER RECIRCULATION
---	PRESSURE & TEMP. RELIEF LINE
---	CONDENSATE DRAIN LINE
---	RAIN WATER LEADER
---	GAS LINE
---	SAFEGAS LINE
---	FIRE PROTECTION
---	SHUT OFF VALVE
---	SAFEPAN LINE
⊙	FIRE SPRINKLER HEAD
⊕	PIPE TURN UP
⊖	PIPE TURN DOWN
⊓	P-TRAP



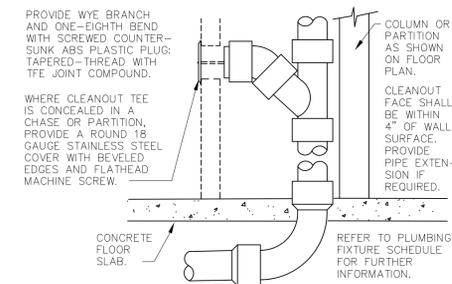
4 TRENCH DRAIN DETAIL NO SCALE

3 LAUNDRY CHUTE SPRINKLER DETAIL NO SCALE

GWH-1 (SEALED COMBUSTION GAS WATER HEATER) & ST-1/ST-2 (STORAGE TANKS) SCHEDULE

WATER HEATER SHALL BE A LOCHINVAR MODEL CFN0651PM COPPER-FIN II GAS FIRED COMMERCIAL WATER HEATER. 650,000 BTU INPUT TO PRODUCE 670 GALLONS PER HOUR OF HOT WATER AT 100' RISE. WATER HEATER SHALL INCLUDE A FLOW SWITCH, MANUAL RESET HIGH LIMIT AND A B&G MODEL 60-B145 RATED FOR 90 GPM @ 15' TDH TO CIRCULATE BETWEEN HEATER AND TANK. PROVIDE (2) TWO LOCHINVAR MODEL RJA200, 200 GALLON CAPACITY LOCK TEMP JACKETED AND INSULATED GLASSLINED STORAGE TANK. 5 YEAR LIMITED WARRANTY ON STORAGE AGAINST TANK FAILURE. WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE SECTIONS 90-80A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION.

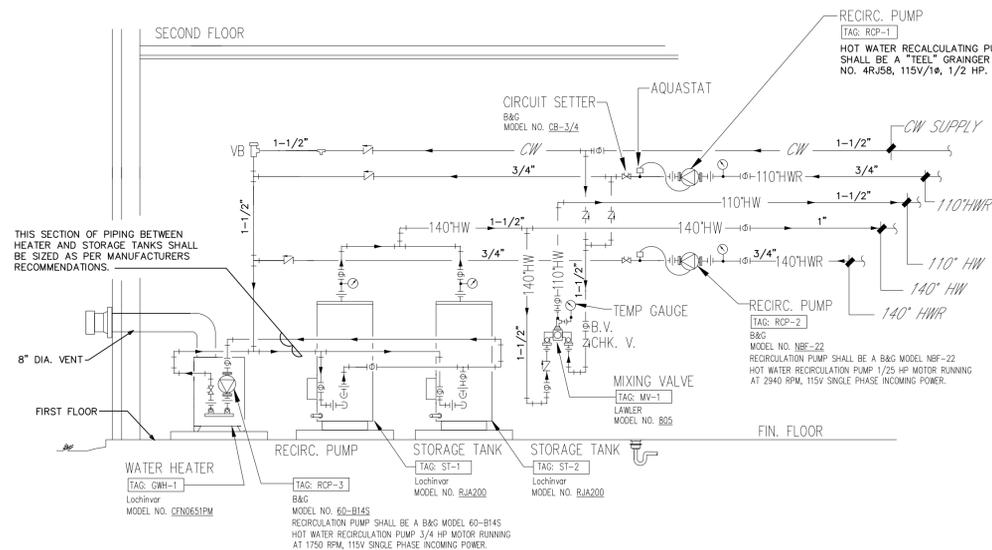
* NOTE:
PROVIDE OPTIONAL POWERED VENT CAP FOR HORIZONTAL DIRECT AIR VENTING.



5 WALL CLEANOUT DETAIL NO SCALE

GENERAL PLUMBING NOTES

- Drawings are diagrammatic and shall not be scaled. Refer to architectural plans and elevations for exact location of all plumbing fixtures, equipment, etc.. Plumbing contractor shall furnish and install all items required for a complete and acceptable working installation.
- All work and materials shall comply with the latest edition of the National, State, and all local codes and Ordinances having jurisdiction.
- The plumbing contractor shall visit the site and thoroughly familiarize himself with all existing conditions. All execution and backfill as required for this phase of construction shall be a part of this contract.
- All material shall be new.
- All work shall be performed by a licensed plumbing contractor in a first class workmanlike manner. The completed system shall be fully operative and accepted by engineer/architect.
- All required insurance shall be provided for protection against public liability or property damage for the duration of the work.
- The plumbing contractor shall secure and pay all permit fees, inspections, and tests.
- All work shall be coordinated with other trades to avoid interference with the progress of construction.
- The plumbing contractor shall guarantee all materials and workmanship free from defects for a period of not less than (1) one year from date of acceptance. Correction of any defects shall be completed without additional charge and shall include replacement or repair of any other phase of the installation which may have been damaged thereby.
- Verify location, size and inverts of all existing utilities prior to start of construction. Advise architect/engineer of any discrepancies.
- All fixtures shall be provided with readily accessible stops.
- Water piping shall be type "L" copper for up to and including 2" and shall be type "K" for 2 1/2" and larger.
- Soil, wastes and vent piping shall be PVC #40 DMV. Waste and vent piping above slab shall be PVC, if approved by local authorities having jurisdiction, otherwise cast iron. PVC shall not be installed in A/C return air plenum or penetrate fire rated walls or floors.
- Air conditioning condensate drain piping shall be PVC #40 or copper drain waste and bent pipe and fittings. Insulate all condensate piping except exterior piping. Install all condensate piping for air conditioning units as required per local codes.
- Furnish and install approved air chambers at each plumbing fixture and PDI approved shock arresters on main lines and risers.
- Provide chrome plated combination covered plate and cleanout plug for all wall cleanouts, Josam 58890.
- Insulate lines as follows:
a) Hot water supply and return: 1" thick fiberglass.
b) Condensate piping: 1/2" thick armatex preformed.



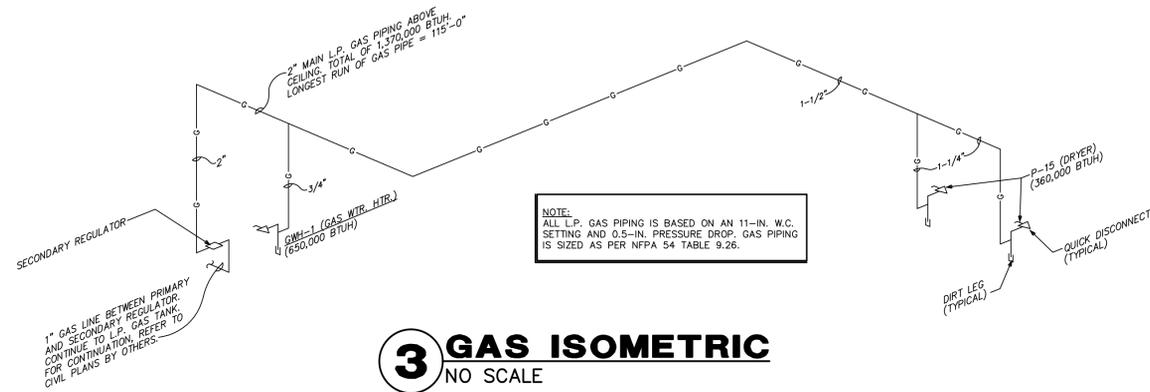
6 WATER HEATING SYSTEM PIPING SCHEMATIC NO SCALE

PLUMBING FIXTURE SCHEDULE

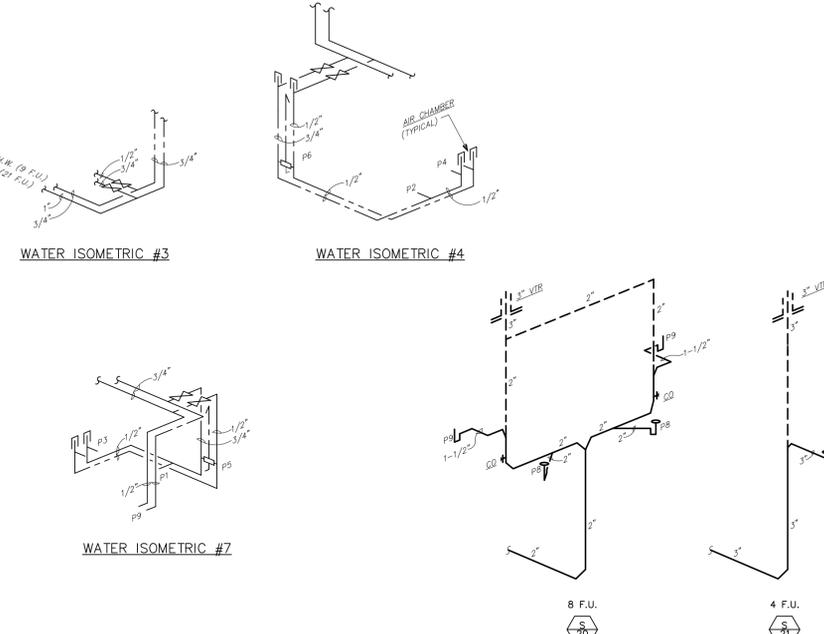
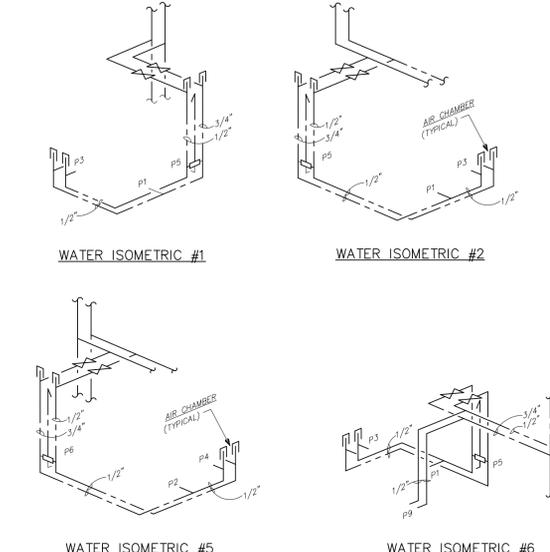
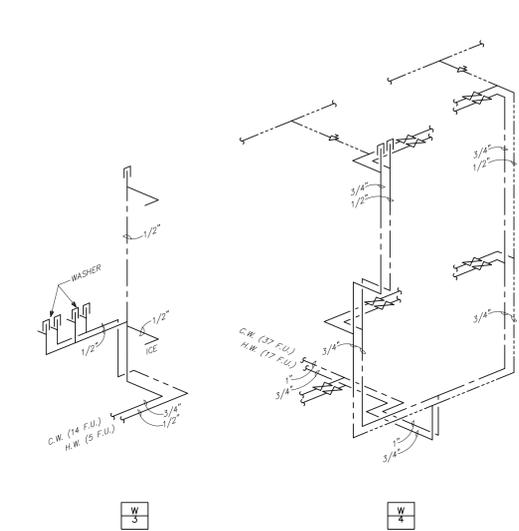
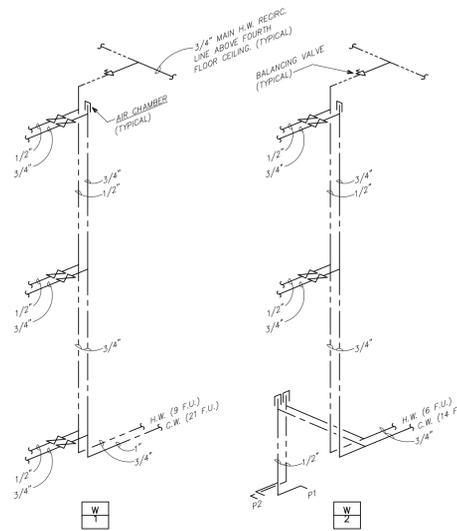
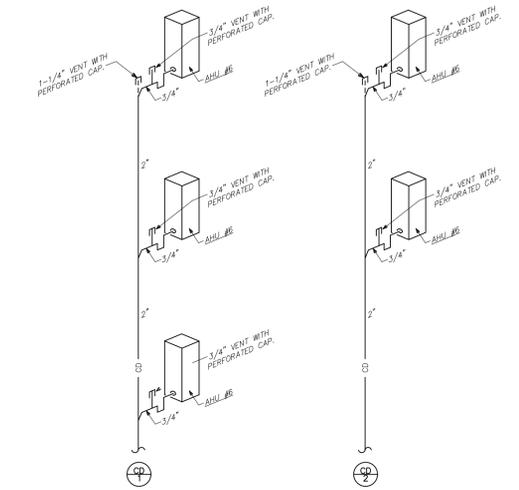
- P-1 (WATER CLOSET)
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2174.139 ELONGATED 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE # 95 OPEN FRONT SEAT LESS COVER. PROVIDE WC WITH AN AMERICAN STANDARD FLUSH-MATE.
- P-2 (HANDICAPPED WATER CLOSET)
SHALL BE AN AMERICAN STANDARD MODEL CADET II 2216.143 ELONGATED 18" HIGH, 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE # 95 OPEN FRONT SEAT LESS COVER. PROVIDE HC WC WITH AN AMERICAN STANDARD FLUSH-MATE.
- P-3 (COUNTER TOP LAVATORY)
SHALL BE AN AMERICAN STANDARD MODEL RONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE. HERITAGE FAUCET 5401.152H TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR.
- P-4 (HANDICAPPED COUNTER TOP LAVATORY)
SHALL BE AN AMERICAN STANDARD MODEL RONALYN MODEL 0490.011 VITREOUS CHINA SELF-RIMMING FAUCET SHALL BE A MONTERREY 5502.170 W/4" WRIST BLADE HANDLES. PROVIDE 0.5 GPM FLOW RESTRICTOR.
- P-5 (TUB/SHOWER)
SHOWER MIXING VALVE (HOT AND COLD WATER) SHALL BE A SPEAKMAN SENTINEL MARK II REGENCY MODEL #SM-1400-AF-SS ANTI-SCALD BALANCED PRESSURE SHOWER VALVE WITH AN INLINE OMNI PRESSURE COMPENSATING 2.5 GPM FLOW RESTRICTOR. (COORDINATE FINAL TUB/SHOWER STALL SPECIFICATIONS WITH OWNDER)
- P-6 (HANDICAPPED TUB/SHOWER)
SHOWER SHALL INCLUDE AN SPEAKMAN MODEL VS-1970-SS-3 SENTINEL MARK II REGENCY CONCEALED ANTI-SCALD BALANCED PRESSURE SHOWER VALVE AND HAND HELD SPRAY COMBINATION WITH 69" WHITE VINYL REINFORCED HOSE. ALSO INCLUDED IN THIS PACKAGE IS A COSMOPOLITAN SHOWER HEAD MODEL #S-2270-AF WITH WATER CONSERVING COMPENSATING AUTOFLOW DEVICE SET TO 2.5 CFM. (COORDINATE FINAL TUB/SHOWER STALL SPECIFICATIONS WITH OWNDER)
- P-7 (HANDICAPPED SHOWER)
SHOWER STALL BY OWNER.
SHOWER SHALL INCLUDE AN SPEAKMAN MODEL VS-1970-SS-3 SENTINEL MARK II REGENCY CONCEALED ANTI-SCALD BALANCED PRESSURE SHOWER VALVE AND HAND HELD SPRAY COMBINATION WITH 69" WHITE VINYL REINFORCED HOSE. ALSO INCLUDED IN THIS PACKAGE IS A COSMOPOLITAN SHOWER HEAD MODEL #S-2270-AF WITH WATER CONSERVING COMPENSATING AUTOFLOW DEVICE SET TO 2.5 CFM.
- P-8 (JACUZZI)
COORDINATE FINAL SPECIFICATIONS WITH OWNER.
- P-9 (COUNTER TOP BAR SINK)
SHALL BE AN ELKAY MODEL BPSH-15-C STAINLESS STEEL BAR SINK WITH HI-ARC FAUCET.
- P-10 (CLOTHES WASHER)
COORDINATE FINAL SPECIFICATIONS WITH OWNER.
- P-11 (FLOOR DRAIN WITH TRAP PRIMER)
SHALL BE A JOSAM 30003-A-50 SERIES COATED CAST IRON FLOOR DRAIN. TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WELOC INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET, INSIDE CAULK CONNECTION AND ADJUSTABLE SATIN NIKALOY ROUND SUPERFLO STRAINER.
- P-12 (3 COMPARTMENT S.S. SINK)
COORDINATE FINAL SPECIFICATIONS WITH OWNER.
- P-13 (HANDICAPPED ELECTRIC WATER COOLER - COMBINATION H/L/O)
SHALL BE AN OASIS MODEL PLF8WMSL, 8.0 GPH, 4.8 FLA AT 120 VOLT WITH A 1/5 HP COMPRESSOR.
- P-14 (LARGE CLOTHES WASHING MACHINE)
COORDINATE FINAL SPECIFICATIONS WITH OWNER.
- P-15 (LARGE CLOTHES DRYER)
COORDINATE FINAL SPECIFICATIONS WITH OWNER.
- P-16 (URINAL)
WALL MOUNTED BLOWOUT, VITREOUS CHINA WATER SAVER WITH WALL HANGERS 1-1/4" TOP SPLID AND PRIVACY SHIELDS. AMERICAN STANDARD #6531.019 LYNBROOK. FLUSH VALVE; EXPOSED CHROME PLATED METAL OSCILLATING HANDLE ESCUTCHEON, SEAT BUMPER, INTEGRAL SCREWDRIWER STOP AND VACUUM BREAKER. SLOAN ROYAL 180-YB.
- P-17 (DOUBLE COMPARTMENT LAUNDRY SINK)
BY OWNER.
- P-18 (DOUBLE COMPARTMENT STAINLESS STEEL SINK)
SHALL BE AN ELKAY LUSTERSTONE MODEL LH-3322-C SELF RIMMING DOUBLE COMPARTMENT STAINLESS STEEL SINK WITH LK2433 HI-ARC FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 2.0 GPM FLOW RESTRICTOR.
- P-19 (EXTERIOR HOSE BIBB W/HANDWHEEL)
SHALL BE A "NIBCO" SERIES 63LS, GRAINGER STOCK NO. 5E407, 3/4" SOLID BRONZE HOSE BIBB WITH ALUMINUM HANDWHEEL.
- P-20 (HANDICAPPED ELECTRIC WATER COOLER)
SHALL BE AN OASIS MODEL PLF8WME, 8.0 GPH, 4.8 FLA AT 120 VOLT WITH A 1/5 HP COMPRESSOR.
- P-21 (HAND SINK)
COORDINATE FINAL SPECIFICATIONS WITH OWNER.
- P-22 (FLOOR SINK W/HALF GRATE)
SHALL BE A JOSAM 49030AS SERIES 12"x12" SQUARE CAST IRON 6-1/4" DEEP SUPER FLOW SEPTOR FLOOR SINK WITH DOUBLE DRAINAGE FLANGE, ALUMINUM INTERNAL DOME STRAINER AND A SUPER FLOW HALF GRATE.
- P-23 (HANDICAPPED ELECTRIC WATER COOLER COMBINATION H/L/O)
SHAL BE AN OASIS SPLIT LEVEL MODEL PBAMSL, 7.8 GPM, 5.0 FLA AT 120 VOLT WITH A 1/5 HP COMPRESSOR.
- NOTES:
1.) ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2.) PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
3.) ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED AS PER LATEST A.D.A. REQUIREMENTS.
4.) ALL FIXTURES EXCLUDING STAINLESS STEEL SINK SHALL BE A BONE COLOR. COORDINATE WITH OWNER PRIOR TO ORDERING FIXTURES.
5.) ALL PLUMBING FIXTURES SHALL BE WHITE.

GENERAL NOTES

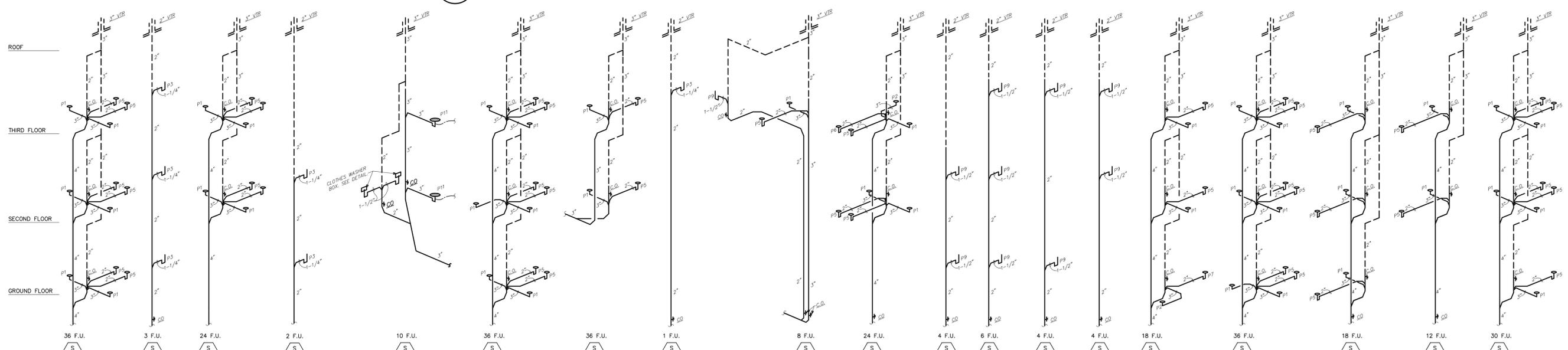
1. GAS PIPING AND FITTINGS SHALL BE SEAMLESS BLACK STEEL WITH MALLEABLE IRON FITTINGS. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED. GAS PIPING OUTSIDE THE BUILDING SHALL BE PAINTED WITH BLACK "RUSTOLEUM" PAINT.
2. GAS PIPING SYSTEM SHALL BE INSTALLED 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.



3 GAS ISOMETRIC
NO SCALE



1 TYPICAL WATER ISOMETRICS
NO SCALE



NOTE: CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL WALL CLEANOUTS AT BASE OF STACKS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.

2 TYPICAL SANITARY ISOMETRICS
NO SCALE

