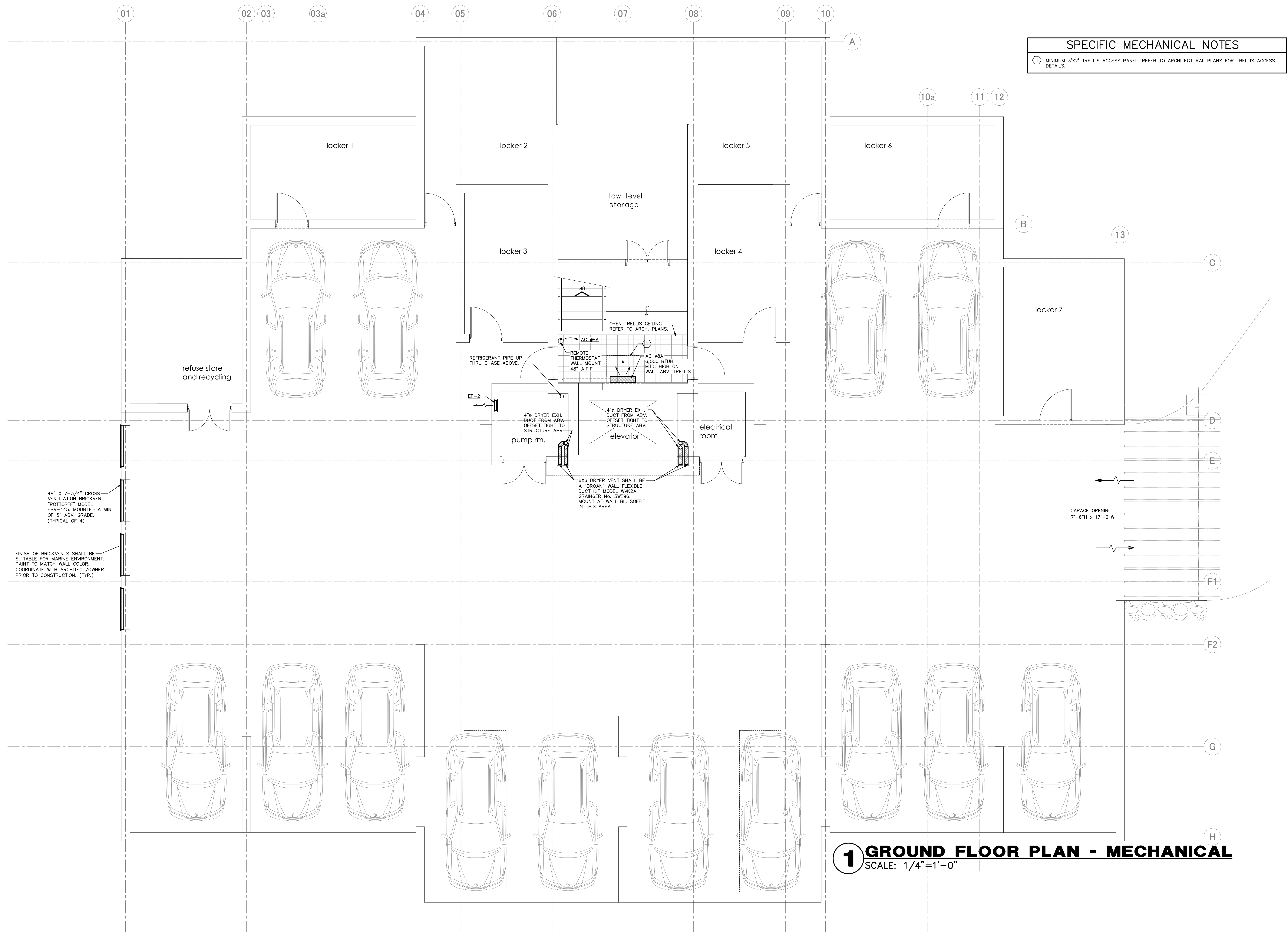




APARTMENT 1
3 bedrooms

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 R-OMNI	8"ø	135 - 250	CEILING REGISTER *
B	TITUS R-OMNI	10"ø	255 - 380	CEILING REGISTER *
C	TITUS CT-580	12" X 2"	0 - 50	LINEAR BAR DIFFUSER **
D	TITUS CT-580	12" X 2-1/2"	0 - 75	LINEAR BAR DIFFUSER **

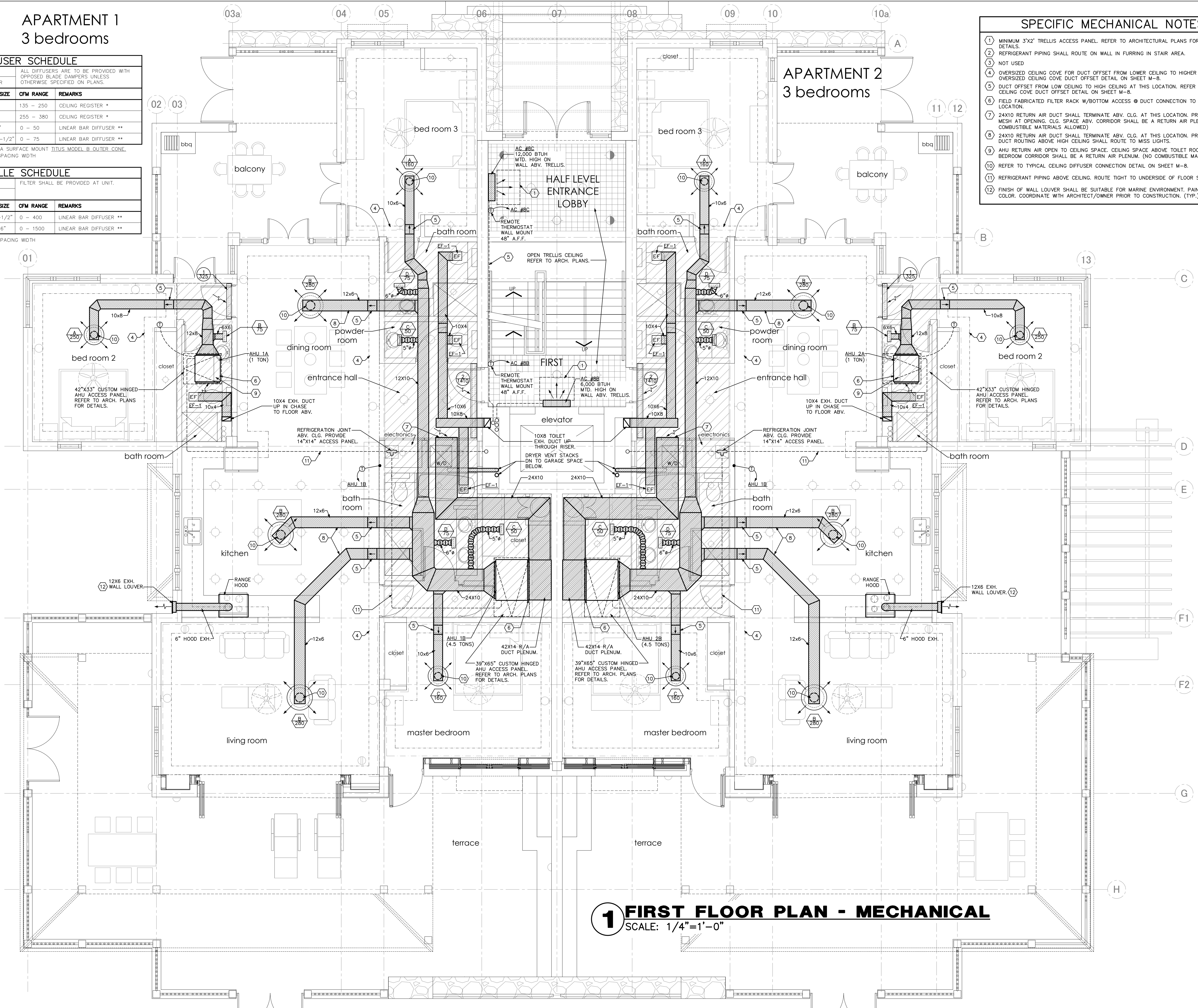
* SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT TITUS MODEL B OUTER CONE.
** 1/8" THICK BARS / 0" DEFLECTION / 1/2" SPACING WIDTH

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 CT-580	39"x3-1/2"	0 - 400	LINEAR BAR DIFFUSER **
2	TITUS CT-580	82" X 6"	0 - 1500	LINEAR BAR DIFFUSER **

** 1/8" THICK BARS / 0" DEFLECTION / 1/2" SPACING WIDTH

SPECIFIC MECHANICAL NOTES

- 1 MINIMUM 3'X2' TRELLIS ACCESS PANEL. REFER TO ARCHITECTURAL PLANS FOR TRELLIS ACCESS DETAILS.
- 2 REFRIGERANT PIPING SHALL ROUTE ON WALL IN FURRING IN STAIR AREA.
- 3 NOT USED
- 4 OVERSIZED CEILING COVE FOR DUCT OFFSET FROM LOWER CEILING TO HIGHER CEILING. REFER TO OVERSIZED CEILING COVE DUCT OFFSET DETAIL ON SHEET M-8.
- 5 DUCT OFFSET FROM LOW CEILING TO HIGH CEILING AT THIS LOCATION. REFER TO OVERSIZED CEILING COVE DUCT OFFSET DETAIL ON SHEET M-8.
- 6 FIELD FABRICATED FILTER RACK W/BOTTOM ACCESS @ DUCT CONNECTION TO AHU AT THIS LOCATION.
- 7 24X10 RETURN AIR DUCT SHALL TERMINATE ABV. CLG. AT THIS LOCATION. PROVIDE 1/4" WIRE MESH AT OPENING. CLG. SPACE ABV. CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED)
- 8 24X10 RETURN AIR DUCT SHALL TERMINATE ABV. CLG. AT THIS LOCATION. PROVIDE 1/4" WIRE DUCT ROUTING ABOVE HIGH CEILING SHALL ROUTE TO MISS LIGHTS.
- 9 AHU RETURN AIR OPEN TO CEILING SPACE. CEILING SPACE ABOVE TOILET ROOM AND SMALL BEDROOM CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED.)
- 10 REFER TO TYPICAL CEILING DIFFUSER CONNECTION DETAIL ON SHEET M-8.
- 11 REFRIGERANT PIPING ABOVE CEILING. ROUTE TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE.
- 12 FINISH OF WALL LOUVER SHALL BE SUITABLE FOR MARINE ENVIRONMENT. PAINT TO MATCH WALL COLOR. COORDINATE WITH ARCHITECT/OWNER PRIOR TO CONSTRUCTION. (TYP.)



1 FIRST FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"

APARTMENT 3
3 bedrooms

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 R-OMNI	8"ø	0 - 245	CEILING REGISTER *
B	TITUS R-OMNI	10"ø	250 - 380	CEILING REGISTER *
C	TITUS CT-580	12" X 2"	0 - 50	LINEAR BAR DIFFUSER **
D	TITUS CT-580	12" X 2-1/2"	0 - 75	LINEAR BAR DIFFUSER **

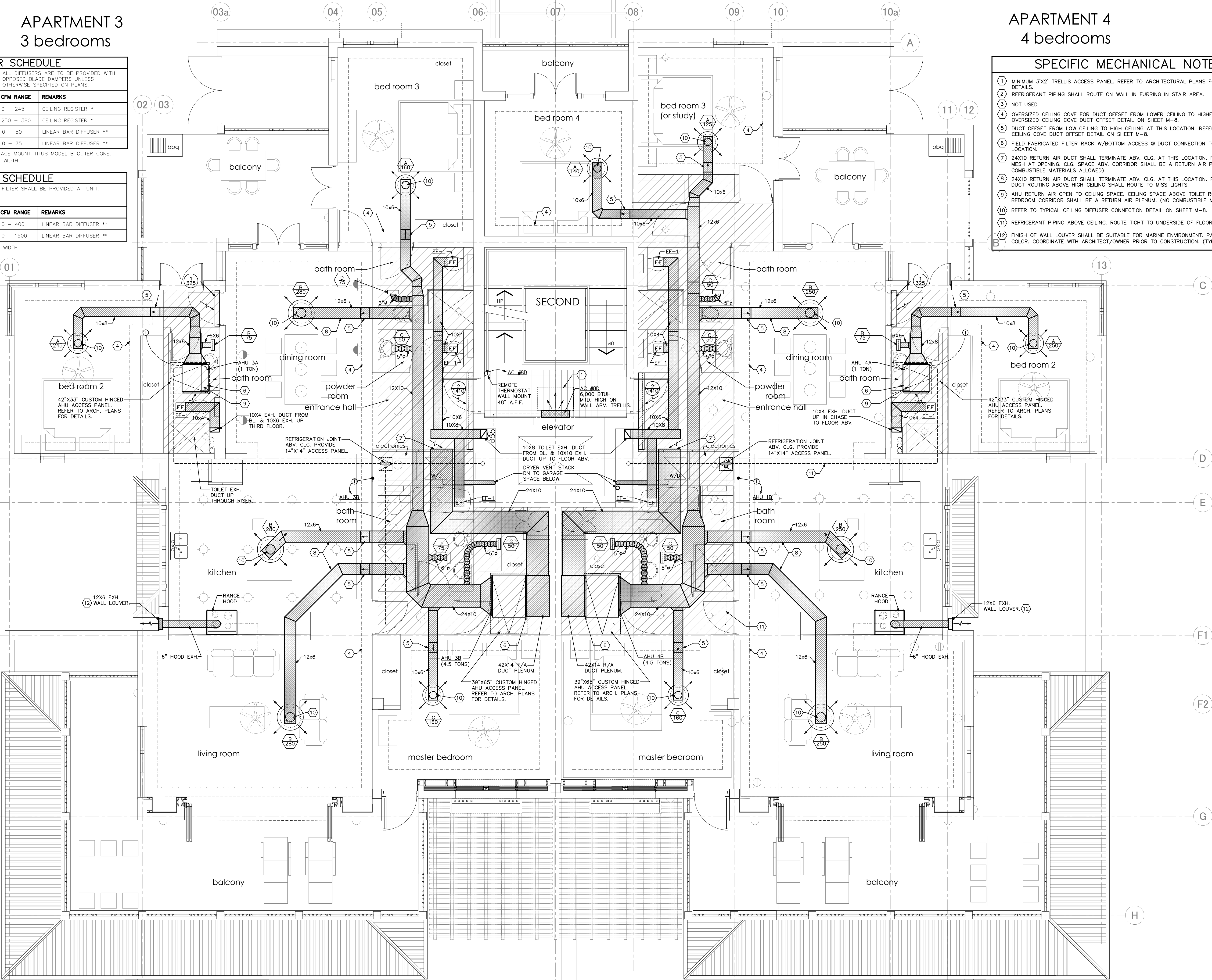
* SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT TITUS_MODEL_B_OUTER_CONE.
** 1/8" THICK BARS / 0" DEFLECTION / 1/2" SPACING WIDTH

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 CT-580	39"x3-1/2"	0 - 400	LINEAR BAR DIFFUSER **
2	TITUS CT-580	82" X 6"	0 - 1500	LINEAR BAR DIFFUSER **

** 1/8" THICK BARS / 0" DEFLECTION / 1/2" SPACING WIDTH

APARTMENT 4
4 bedrooms

SPECIFIC MECHANICAL NOTES	
1	MINIMUM 3'X2' TRELLIS ACCESS PANEL. REFER TO ARCHITECTURAL PLANS FOR TRELLIS ACCESS DETAILS.
2	REFRIGERANT PIPING SHALL ROUTE ON WALL IN FURRING IN STAIR AREA.
3	NOT USED
4	OVERSIZED CEILING COVE FOR DUCT OFFSET FROM LOWER CEILING TO HIGHER CEILING. REFER TO OVERSIZED CEILING COVE DUCT OFFSET DETAIL ON SHEET M-8.
5	DUCT OFFSET FROM LOW CEILING TO HIGH CEILING AT THIS LOCATION. REFER TO OVERSIZED CEILING COVE DUCT OFFSET DETAIL ON SHEET M-8.
6	FIELD FABRICATED FILTER RACK W/BOTTOM ACCESS @ DUCT CONNECTION TO AHU AT THIS LOCATION.
7	24X10 RETURN AIR DUCT SHALL TERMINATE ABV. CLG. AT THIS LOCATION. PROVIDE 1/4" WIRE MESH AT OPENING. CLG. SPACE ABV. CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED)
8	24X10 RETURN AIR DUCT SHALL TERMINATE ABV. CLG. AT THIS LOCATION. PROVIDE 1/4" WIRE MESH AT OPENING. CLG. SPACE ABV. CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED)
9	AHU RETURN AIR OPEN TO CEILING SPACE. CEILING SPACE ABOVE TOILET ROOM AND SMALL BEDROOM CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED.)
10	REFER TO TYPICAL CEILING DIFFUSER CONNECTION DETAIL ON SHEET M-8.
11	REFRIGERANT PIPING ABOVE CEILING. ROUTE TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE.
12	FINISH OF WALL LOUVER SHALL BE SUITABLE FOR MARINE ENVIRONMENT. PAINT TO MATCH WALL COLOR. COORDINATE WITH ARCHITECT/OWNER PRIOR TO CONSTRUCTION. (TYP.)



1 SECOND FLOOR PLAN - 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 R-OMNI	8"	135 - 250	CEILING REGISTER *
B	TITUS R-OMNI	10"	255 - 380	CEILING REGISTER *
C	TITUS CT-580	12" X 2"	0 - 50	LINEAR BAR DIFFUSER **
D	TITUS CT-580	12" X 2-1/2"	0 - 75	LINEAR BAR DIFFUSER **
E	TITUS CT-580	24" X 2-1/2"	80 - 160	LINEAR BAR DIFFUSER *
F	TITUS CT-580	24"x4"	165 - 300	LINEAR BAR DIFFUSER *

* SUPPLY REGISTER SHALL BE PROVIDED WITH A SURFACE MOUNT TITUS MODEL B OUTER CONE.
** 1/8" THICK BARS / 0" DEFLECTION / 1/2" SPACING WIDTH

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 CT-580	39"x3-1/2"	0 - 400	LINEAR BAR DIFFUSER **
2	TITUS CT-580	82" X 6"	0 - 1500	LINEAR BAR DIFFUSER **

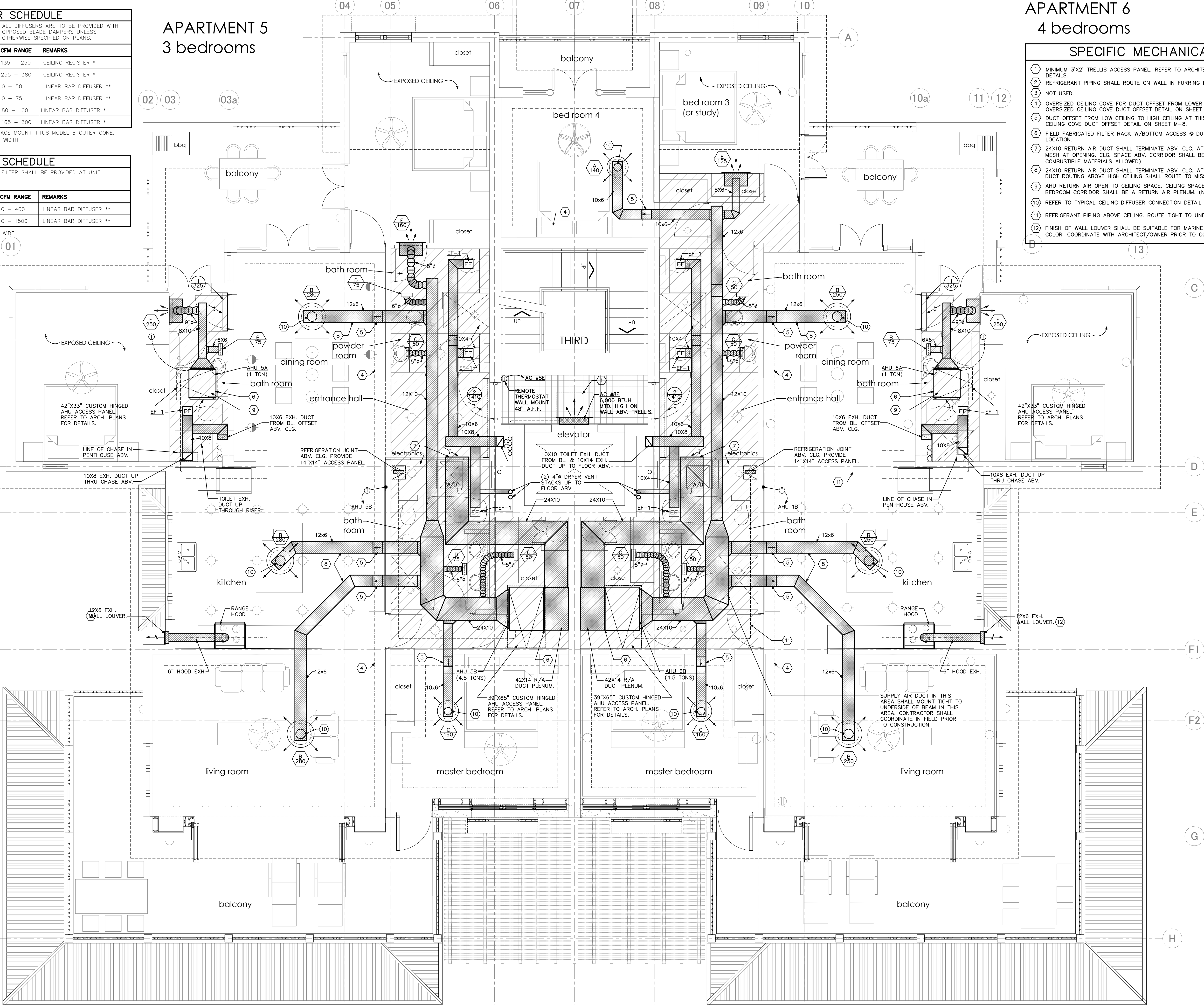
** 1/8" THICK BARS / 0" DEFLECTION / 1/2" SPACING WIDTH

APARTMENT 5
3 bedrooms

APARTMENT 6
4 bedrooms

SPECIFIC MECHANICAL NOTES

- MINIMUM 3'X2' TRELLIS ACCESS PANEL. REFER TO ARCHITECTURAL PLANS FOR TRELLIS ACCESS DETAILS.
- REFRIGERANT PIPING SHALL ROUTE ON WALL IN FURRING IN STAIR AREA.
- NOT USED.
- OVERSIZED CEILING COVE FOR DUCT OFFSET FROM LOWER CEILING TO HIGHER CEILING. REFER TO OVERSIZED CEILING COVE DUCT OFFSET DETAIL ON SHEET M-8.
- DUCT OFFSET FROM LOW CEILING TO HIGH CEILING AT THIS LOCATION. REFER TO OVERSIZED CEILING COVE DUCT OFFSET DETAIL ON SHEET M-8.
- FIELD FABRICATED FILTER RACK W/BOTTOM ACCESS @ DUCT CONNECTION TO AHU AT THIS LOCATION.
- 24X10 RETURN AIR DUCT SHALL TERMINATE ABV. CLG. AT THIS LOCATION. PROVIDE 1/4" WIRE MESH AT OPENING. CLG. SPACE ABV. CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED)
- 24X10 RETURN AIR DUCT SHALL TERMINATE ABV. CLG. AT THIS LOCATION. PROVIDE 1/4" WIRE MESH AT OPENING. CLG. SPACE ABV. CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED.)
- AHU RETURN AIR OPEN TO CEILING SPACE. CEILING SPACE ABOVE TOILET ROOM AND SMALL BEDROOM CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED.)
- REFER TO TYPICAL CEILING DIFFUSER CONNECTION DETAIL ON SHEET M-8.
- REFRIGERANT PIPING ABOVE CEILING. ROUTE TIGHT TO UNDERSIDE OF FLOOR STRUCTURE ABOVE.
- FINISH OF WALL LOUVER SHALL BE SUITABLE FOR MARINE ENVIRONMENT. PAINT TO MATCH WALL COLOR. COORDINATE WITH ARCHITECT/OWNER PRIOR TO CONSTRUCTION. (TYP.)



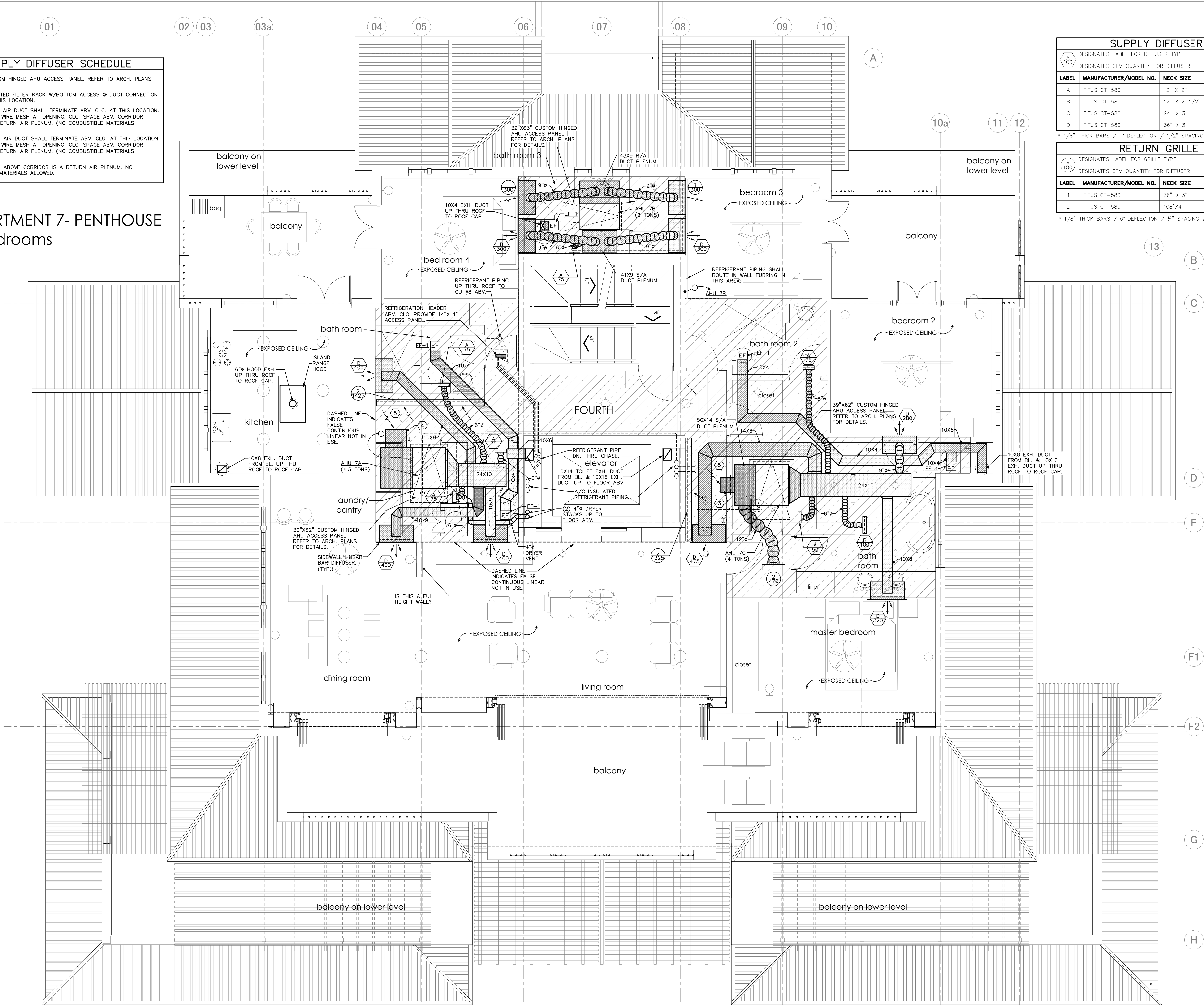
1 THIRD FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

SUPPLY DIFFUSER SCHEDULE	
1	39"x65" CUSTOM HINGED AHU ACCESS PANEL. REFER TO ARCH. PLANS FOR DETAILS.
2	FIELD FABRICATED FILTER RACK W/BOTTOM ACCESS @ DUCT CONNECTION TO AHU AT THIS LOCATION.
3	16X10 RETURN AIR DUCT SHALL TERMINATE ABV. CLG. AT THIS LOCATION. PROVIDE 1/4" WIRE MESH AT OPENING. CLG. SPACE ABV. CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED)
4	22X10 RETURN AIR DUCT SHALL TERMINATE ABV. CLG. AT THIS LOCATION. PROVIDE 1/4" WIRE MESH AT OPENING. CLG. SPACE ABV. CORRIDOR SHALL BE A RETURN AIR PLENUM. (NO COMBUSTIBLE MATERIALS ALLOWED)
5	CEILING SPACE ABOVE CORRIDOR IS A RETURN AIR PLENUM. NO COMBUSTIBLE MATERIALS ALLOWED.

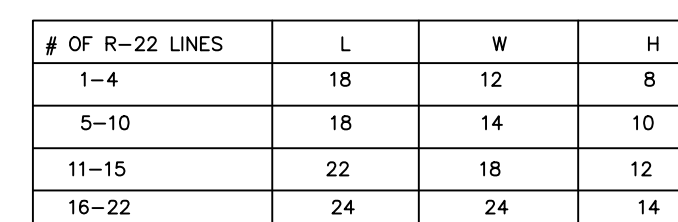
SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE	ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.			
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER/MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS CT-580	12" X 2"	0 - 50	LINEAR BAR DIFFUSER *
B	TITUS CT-580	12" X 2-1/2"	0 - 100	LINEAR BAR DIFFUSER *
C	TITUS CT-580	24" X 3"	0 - 215	LINEAR BAR DIFFUSER *
D	TITUS CT-580	36" X 3"	0 - 475	LINEAR BAR DIFFUSER *

RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE 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
1	TITUS CT-580	36" X 3"	0 - 320	LINEAR BAR DIFFUSER *
2	TITUS CT-580	108"x4"	305 - 1500	LINEAR BAR DIFFUSER *

APARTMENT 7- PENTHOUSE 4 bedrooms



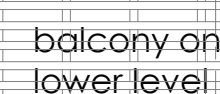
1 FOURTH FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"



(CU #8)



REF
NO SCALE

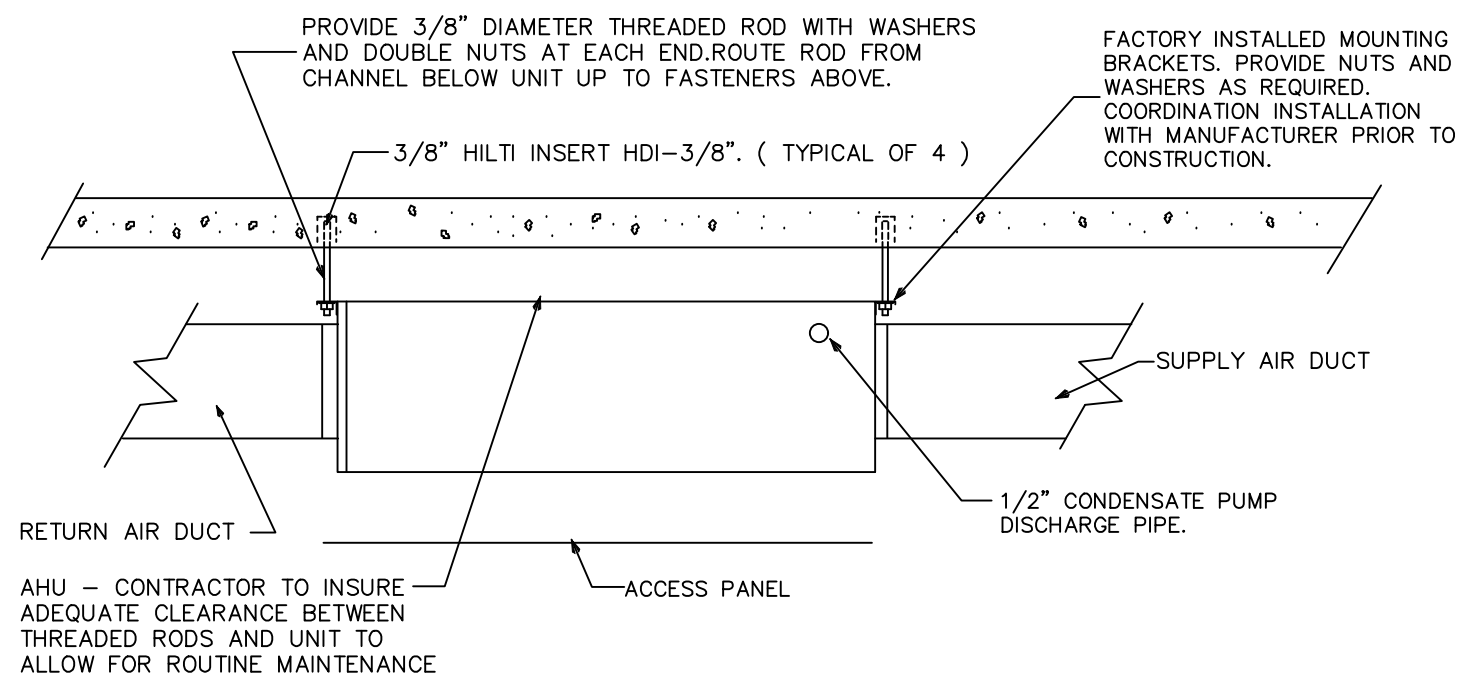


balcony on
lower level

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

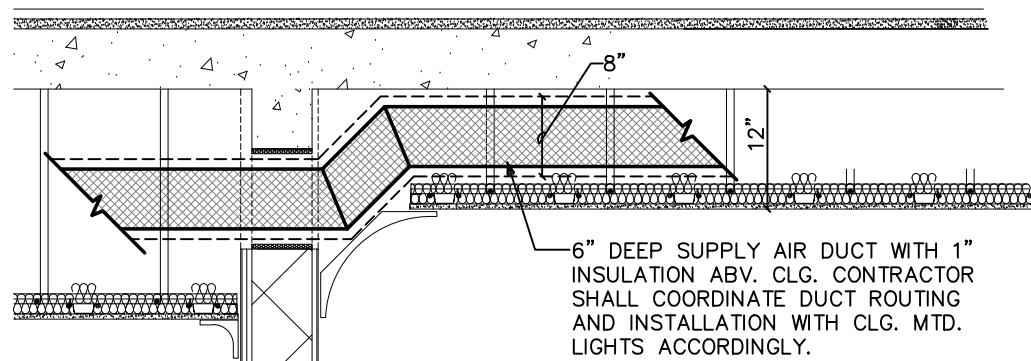
AHU MOUNTING DETAILS (AHU #1A-7C)

NO SCALE



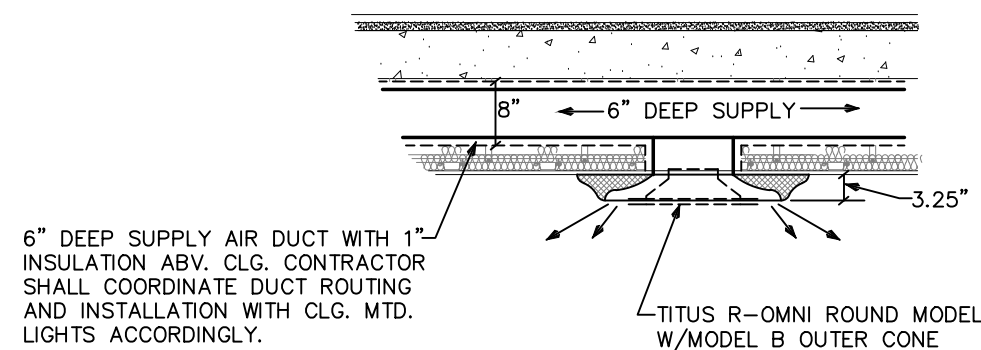
OVERSIZED CEILING COVE DUCT OFFSET DETAIL

NO SCALE



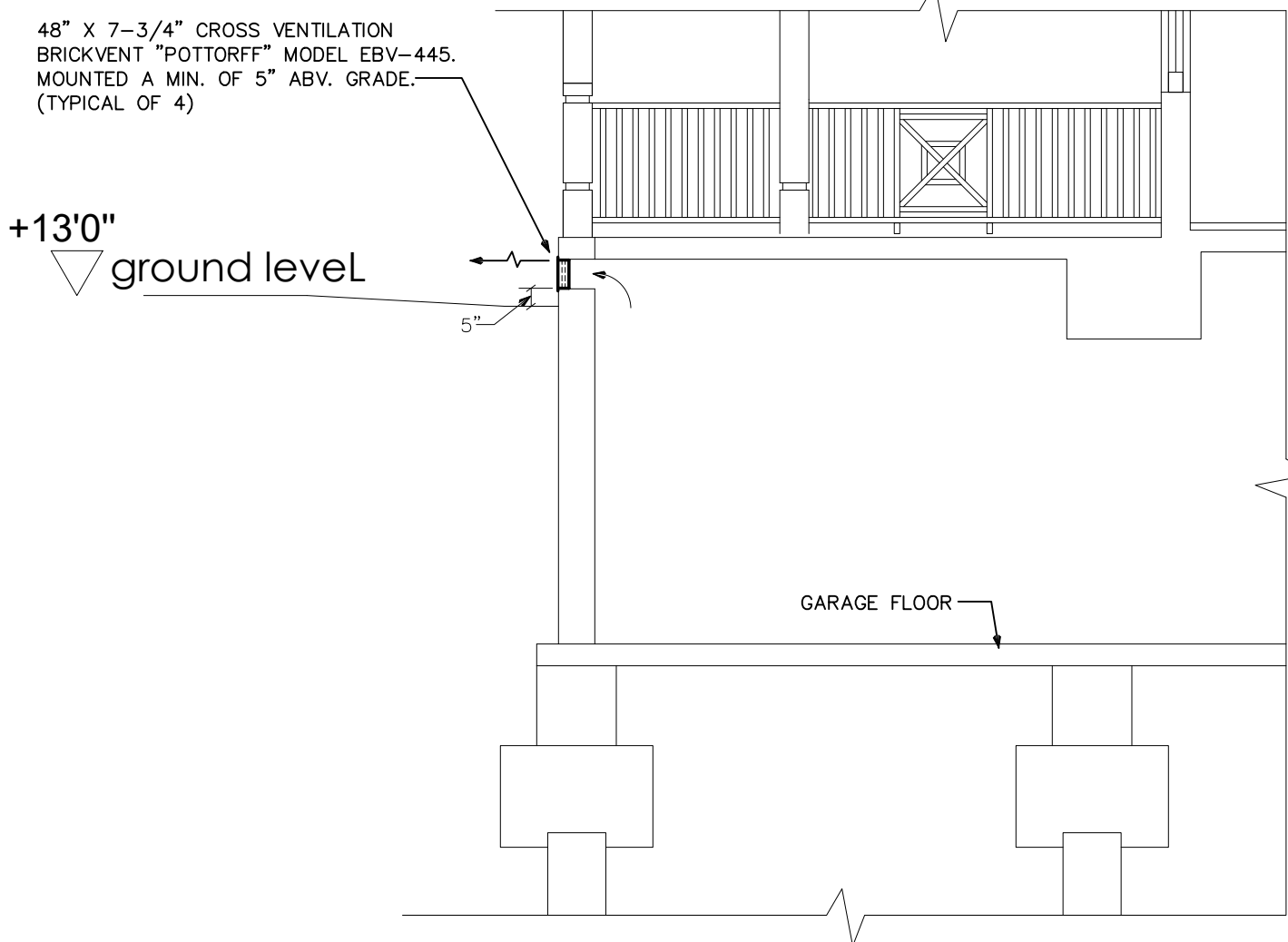
TYPICAL CEILING DIFFUSER CONNECTION

NO SCALE



GARAGE NATURAL VENTILATION LOUVERS

NO SCALE



FAN SCHEDULE									
LABEL	TYPE OF UNIT - AREA SERVED	MANUFACTURER & MODEL NO.	CFM	SP	MOUNTING ARRANGEMENT	MOTOR H.P.	ENCLOSURE TYPE	RPM	VOLTAGE
EF-1	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z6	90	.125"	CEILING MOUNTED	50 WATTS	OPEN DRIP PROOF	1055	115V/1ø
EF-2	SHUTTER FAN - REFER TO PLANS	ACME MODEL SMF 10-SC	285	.125"	WALL MOUNTED	1/30	OPEN DRIP PROOF	1115	115V/1ø

NOTES: 1.) REFER TO ELECTRICAL PLANS FOR CONTROL.
2.) PRODUCT DATA CUTSHEET FOUND HERE: <http://www.ocmehort.com/Pdfs/B212.pdf>

CONDENSING UNIT MOUNTING DETAILS (CU #1 - CU #8)

* PRODUCT DATE HERE: <http://www.acstands.com/>
* INSTALLATION HERE: <https://goo.gl/3ic0KK>

ADJUSTABLE CONDENSING UNIT BASE "ALUMA STAND-HD" HEAVY DUTY EXPOSURE "C"

**COMPLIES WITH ASCE 7-02 @ 146 mph
DESIGN WIND PRESSURE**

AC STAND ON CONCRETE ROOF, STEEL JOIST STRUCTURE, OR WOOD DECK	MAXIMUM WIND PRESSURE
75 psf	75 psf

A/C STAND REACTIONS TABLE

ROOF MATERIAL	ALLOWABLE ELEVATION @145 MPH	ALLOWABLE WIND UPLIFT	LATERAL COMPRESSION	SEISING MOMENT
CONC. DECK	180"	350 lbs	2628	3188"
WOOD DECK	75"	350 lbs	2628	3188"

NOTES:
1. FRAME 6061-T6/6063-T5 ALUMINUM ALLOY (AN EXTERIOR EXPOSURE ALLOY). ALL JOINTS WELDED, OTHER THAN SHOWN.
2. YIELD STRENGTH SHALL BE 35 ksi AND CONFORM TO THE AMERICAN ALUMINUM ASSOCIATION STANDARDS.
3. WELD FILLER SHALL BE ALUMINUM ALLOY 4043 WITH TENSILE STRENGTH OF 15 ksi.
4. FRAME WITHSTANDS WIND LOADS AS PER 2004 FLORIDA BUILDING CODE & ASCE 7-02.
5. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO PROVIDE ADEQUATE ANCHORAGE AS SHOWN ON THIS PLAN, AND TO PROVIDE CORROSION RESISTANT ISOLATION PADS AT THE BOTTOM OF THE BASE PLATES WHEN BEARING ON CONCRETE AND STEEL STRUCTURES.
6. EXPANSION BOLTS & LAG SCREWS SHALL HAVE A MINIMUM SPACING OF 2" & A MINIMUM EDGE DISTANCE OF 1" FOR LAGS & 3" FOR EXPANSION BOLTS.
7. VIBRATION ISOLATOR PADS SHALL BE PROVIDED BY THE A/C CONTRACTOR SO AS NOT TO CAUSE VIBRATION TO EXISTING SUB-STRUCTURE.
8. CALCULATIONS ARE BASED ON THE SURFACE OF THE A/C UNIT. THIS IS DETERMINED BY MULTIPLYING THE UNIT WIDTH BY THE UNIT HEIGHT, WITH THE RESULT BEING THE SURFACE SQUARE FOOTAGE. THE MAXIMUM SIZES ALLOWED FOR THE ALUMA STAND ARE DENOTED IN THE TABLE DIRECTLY ON PAGE 2.

SYSTEM CONFIGURATIONS - DRAWINGS ARE NOT TO SCALE

1 UNIT SYSTEM

2 UNIT SYSTEM

3 UNIT SYSTEM

4 UNIT SYSTEM

5 UNIT SYSTEM

6 UNIT SYSTEM

UNIT / SIZE TABLE

STAND SIZE	3 FOOT	6 FOOT	9 FOOT	12 FOOT	15 FOOT	18 FOOT
ROOF TYPE	ALL ROOFS	ALL ROOFS	ALL ROOFS	ALL ROOFS	ALL ROOFS	ALL ROOFS
MULTIPLE UNITS MAX SIZE EACH	1	2	3	4	5	6
SINGLE UNIT	9 SQ. FT.	18 SQ. FT.	27 SQ. FT.	36 SQ. FT.	45 SQ. FT.	54 SQ. FT.

A/C SCHEDULE (INDOOR UNITS)

MITSUBISHI CITY MULTI VRF INDOOR UNIT SCHEDULE												
System Tag	Room Name	Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Refrig Pipe Dim	Voltage / Phase	Power Cooling 208V/230V (kW)	Electrical MCA/MFS	Notes / Options
System 1	Apt. 1 - Bed Rm. 2	AHU 1A	PEFY-P12NMAU-E3	Ceiling concealed type (ducted)	12,000.0	10,818.9	7,871.9	1/4 / 1/2	208/230V/1-phase	0.09	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6
System 1	Apt. 1 - Main	AHU 1B	PEFY-P54NMHU-E2	Ceiling concealed type (ducted)	54,000.0	48,684.9	34,822.8	3/8 / 5/8	208/230V/1-phase	0.630/0.620	4.18(208V)/3.69(230V)/15	1, 2, 3, 4, 5, 6
System 2	Apt. 2 - Bed Rm. 2	AHU 2A	PEFY-P12NMAU-E3	Ceiling concealed type (ducted)	12,000.0	10,818.9	7,871.9	1/4 / 1/2	208/230V/1-phase	0.09	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6
System 2	Apt. 2 - Main	AHU 2B	PEFY-P54NMHU-E2	Ceiling concealed type (ducted)	54,000.0	48,684.9	34,822.8	3/8 / 5/8	208/230V/1-phase	0.630/0.620	4.18(208V)/3.69(230V)/15	1, 2, 3, 4, 5, 6
System 3	Apt. 3 - Bed Rm. 2	AHU 3A	PEFY-P12NMAU-E3	Ceiling concealed type (ducted)	12,000.0	10,895.1	7,902.7	1/4 / 1/2	208/230V/1-phase	0.09	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6
System 3	Apt. 3 - Main	AHU 3B	PEFY-P54NMHU-E2	Ceiling concealed type (ducted)	54,000.0	49,027.8	34,962.7	3/8 / 5/8	208/230V/1-phase	0.630/0.620	4.18(208V)/3.69(230V)/15	1, 2, 3, 4, 5, 6
System 4	Apt. 4 - Bed Rm. 2	AHU 4A	PEFY-P12NMAU-E3	Ceiling concealed type (ducted)	12,000.0	10,895.1	7,902.7	1/4 / 1/2	208/230V/1-phase	0.09	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6
System 4	Apt. 4 - Main	AHU 4B	PEFY-P54NMHU-E2	Ceiling concealed type (ducted)	54,000.0	49,027.8	34,962.7	3/8 / 5/8	208/230V/1-phase	0.630/0.620	4.18(208V)/3.69(230V)/15	1, 2, 3, 4, 5, 6
System 5	Apt. 5 - Bed Rm. 2	AHU 5A	PEFY-P12NMAU-E3	Ceiling concealed type (ducted)	12,000.0	10,972.3	7,933.9	1/4 / 1/2	208/230V/1-phase	0.09	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6
System 5	Apt. 5 - Main	AHU 5B	PEFY-P54NMHU-E2	Ceiling concealed type (ducted)	54,000.0	49,375.4	35,104.8	3/8 / 5/8	208/230V/1-phase	0.630/0.620	4.18(208V)/3.69(230V)/15	1, 2, 3, 4, 5, 6
System 6	Apt. 6 - Bed Rm. 2	AHU 6A	PEFY-P12NMAU-E3	Ceiling concealed type (ducted)	12,000.0	11,050.6	7,965.6	1/4 / 1/2	208/230V/1-phase	0.09	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6
System 6	Apt. 6 - Main	AHU 6B	PEFY-P54NMHU-E2	Ceiling concealed type (ducted)	54,000.0	49,727.8	35,249.1	3/8 / 5/8	208/230V/1-phase	0.630/0.620	4.18(208V)/3.69(230V)/15	1, 2, 3, 4, 5, 6
System 7A	Apt. 7 - Kitchen/Dining/Living	AHU #7A	PEFY-P54NMHU-E2	Ceiling concealed type (ducted)	54,000.0	54,114.4	37,068.5	3/8 / 3/4	208/230V/1-phase	0.630/0.620	4.18(208V)/3.69(230V)/15	1, 2, 3, 4, 5, 6
System 7B	Apt. 7 - Bed Room 3 & 4	AHU #7B	PEAD-A24AA5	Ceiling concealed type (ducted)	24,000.0	24,149.2	18,985.0	5/8 / 3/8	208/230V/1-phase	2.4	Powered by Outdoor	1, 2, 3, 4, 5, 6
System 7C	Apt. 7 - Bed Room 2/Master/Living	AHU #7C	PEFY-P48NMHU-E2	Ceiling concealed type (ducted)	48,000.0	48,467.6	32,891.9	3/8 / 5/8	208/230V/1-phase	0.620/0.610	4.16(208V)/3.67(230V)/15	1, 2, 3, 4, 5, 6
System 8	Garage Stair	AC #8A	PKFY-P06NBMU-E2	Wall mounted type	6,000.0	5,761.8	4,161.7	1/4 / 1/2	208/230V/1-phase	0.03	0.19/0.19/15	1, 2, 3, 4, 5, 6
System 8	First Floor Stair	AC #8B	PKFY-P06NBMU-E2	Wall mounted type	6,000.0	5,862.2	4,202.5	1/4 / 1/2	208/230V/1-phase	0.03	0.19/0.19/15	1, 2, 3, 4, 5, 6
System 8	First Entry Lobby	AC #8C	PKFY-P12NMHU-E2	Wall mounted type	12,000.0	11,703.2	8,711.3	1/4 / 1/2	208/230V/1-phase	0.03	0.38(208V)/0.38(230V)/15	1, 2, 3, 4, 5, 6
System 8	Second Floor Stair	AC #8D	PKFY-P06NBMU-E2	Wall mounted type	6,000.0	5,922.3	4,226.9	1/4 / 1/2	208/230V/1-phase	0.03	0.19/0.19/15	1, 2, 3, 4, 5, 6
System 8	Third Floor Stair	AC #8E	PKFY-P06NBMU-E2	Wall mounted type	6,000.0	5,922.3	4,226.9	1/4 / 1/2	208/230V/1-phase	0.03	0.19/0.19/15	1, 2, 3, 4, 5, 6
System 9	Elev. Control Rm.	A/C #9	PKA-A12HA6	Wall mounted type	12,000.0	12,206.0	10,249.0	1/2 / 1/4	208/230V/1-phase	1.1	Powered by Outdoor	1, 2, 3, 4, 5, 6
Notes & Options:												
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)												
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)												
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities												
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.												
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.												
6 It is recommended to always base heating corrected capacity on full demand.												

Notes & Options:
1) Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2) Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3) See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4) See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5) Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
6) It is recommended to always base heating corrected capacity on full demand.

A/C SCHEDULE (OUTDOOR UNITS)

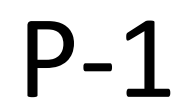
MITSUBISHI CITY MULTI VRF OUTDOOR UNIT SCHEDULE									
System Tag	Tag Reference	Model Number	Nominal Cooling Capacity (BTU/h)	Cooling Efficiency IEER/IEER [SEER]	Voltage / Phase	Electrical-Per Module 208/230 or 460V			Notes / Options
						MCA	RFS	MOCP	
System 1	CU #1	PUMY-P60NKMU-BS	60,000.0	- / 12.5 [16.7]	208-230V / 1-phase	35	40	42	1, 2, 3, 4, 5
System 2	CU #2	PUMY-P60NKMU-BS	60,000.0	- / 12.5 [16.7]	208-230V / 1-phase	35	40	42	1, 2, 3, 4, 5
System 3	CU #3	PUMY-P60NKMU-BS	60,000.0	- / 12.5 [16.7]	208-230V / 1-phase	35	40	42	1, 2, 3, 4, 5
System 4	CU #4	PUMY-P60NKMU-BS	60,000.0	- / 12.5 [16.7]	208-230V / 1-phase	35	40	42	1, 2, 3, 4, 5
System 5	CU #5	PUMY-P60NKMU-BS	60,000.0	- / 12.5 [16.7]	208-230V / 1-phase	35	40	42	1, 2, 3, 4, 5
System 6	CU #6	PUMY-P60NKMU-BS	60,000.0	- / 12.5 [16.7]	208-230V / 1-phase	35	40	42	1, 2, 3, 4, 5
System 7A	CU #7A	PUMY-P60NKMU-BS	60,000.0	- / 12.5 [16.7]	208-230V / 1-phase	35	40	42	1, 2, 3, 4, 5
System 7B	CU #7B	PUY-A24NH-A6-BS	24,000.0	[16]	208/230V /	2.63	N/A	N/A	1, 2, 3, 4, 5
System 7C	CU #7C	PUY-P48NH-MUR4-BS	48,000.0	- / 9 [15.5]	208-230V / 1-phase	26	30	40	1, 2, 3, 4, 5
System 8	CU #8	PUMY-P36NH-MUR4-BS	36,000.0	- / 11.2 [14.3]	208-230V / 1-phase	26	30	40	1, 2, 3, 4, 5
System 9	CU #9	PUY-A12NH-A6-BS	12,000.0	[15.2]	208/230V /	1	N/A	N/A	1, 2, 3, 4, 5

Notes & Options:
1) Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2) Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3) Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
4) For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
5) Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

CONTRACTOR SHALL ADJUST A/C UNIT DIPSWITCHES IN FIELD TO BE COOLING ONLY. TYPICAL FOR ALL INDOOR UNITS.

CONTRACTOR SHALL SET SW3 #1 DIPSWITCH - TURN TO ON POSITION TO ENABLE COOLING ONLY. COORDINATE WITH MANUFACTURER.

SUPPORT WEBSITE
<http://usa.myinkdrive.com/pages/show/2.html>



APARTMENT 1
3 bedrooms

n.i.a. = 1,836 f2
n.i.a. balconies = 1,219 f2

APARTMENT 2
3 bedrooms

SPECIFIC PLUMBING NOTES

- 1 P&T RELIEF, PAN DRAIN AND CONDENSATE RISERS. REFER TO TYPICAL ISOMETRICS ON SHEET P7.
- 2 1-1/4" AHU CONDENSATE PUMP DISCHARGE DRAIN, OFFSET ABOVE CEILING.
- 3 1/2" AHU CONDENSATE PUMP DISCHARGE DRAIN, OFFSET ABOVE CEILING.

1 FIRST FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"

01

02

03

03a

04

05

06

07

08

09

10

10a

11

12

13

APARTMENT 3

3 bedrooms

n.i.a. = 1,836 f2

n.i.a. balconies = 506 f2

APARTMENT 4

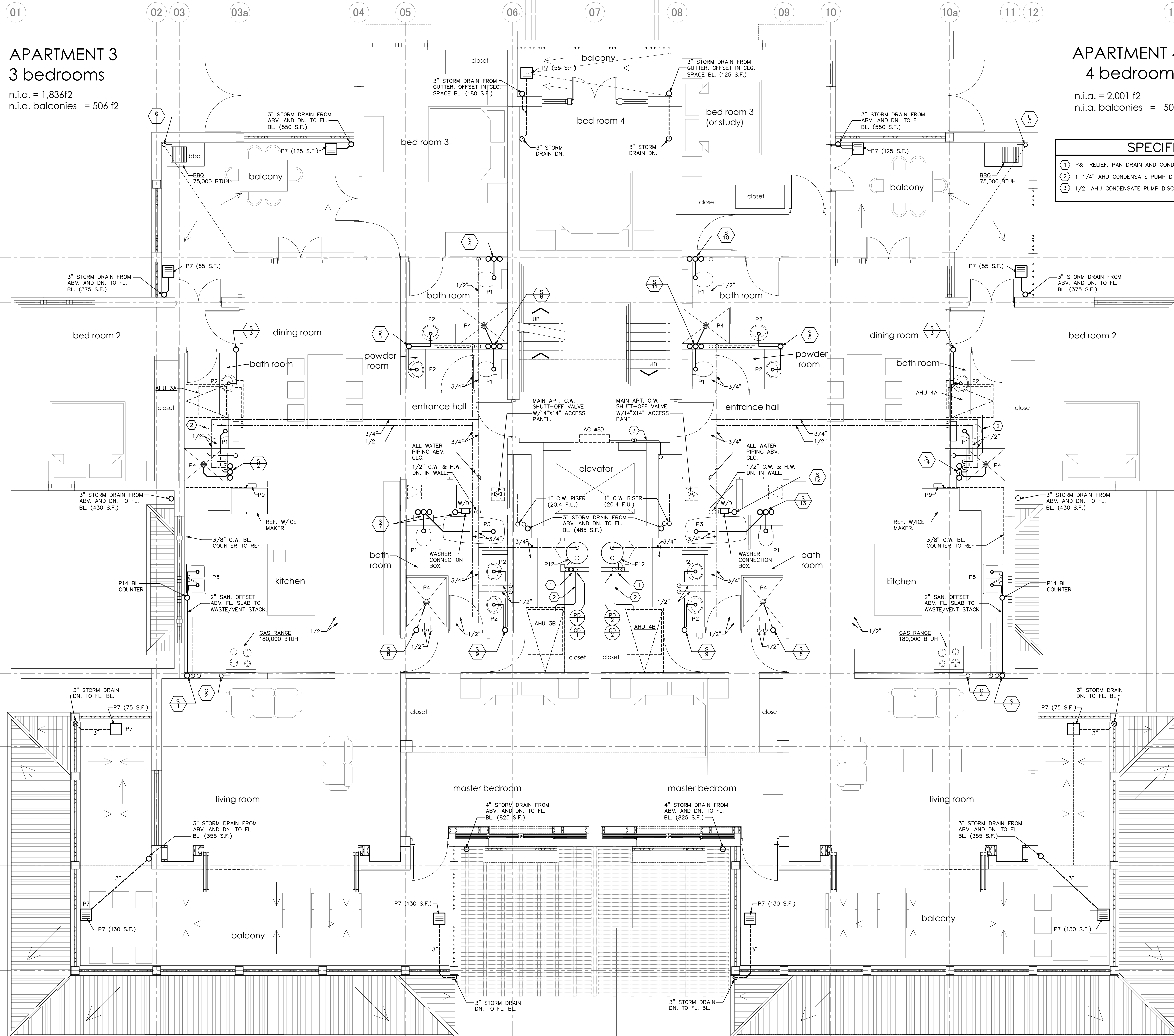
4 bedrooms

n.i.a. = 2,001 f2

n.i.a. balconies = 506 f2

SPECIFIC PLUMBING NOTES

- ① P&T RELIEF, PAN DRAIN AND CONDENSATE RISERS. REFER TO TYPICAL ISOMETRICS ON SHEET P7.
- ② 1-1/4" AHU CONDENSATE PUMP DISCHARGE DRAIN, OFFSET ABOVE CEILING.
- ③ 1/2" AHU CONDENSATE PUMP DISCHARGE DRAIN, OFFSET ABOVE CEILING.



APARTMENT 5 3 bedrooms

n.i.a. = 1,836f2
n.i.a. balconies = 506 f2

APARTMENT 6 4 bedrooms

n.i.a. = 2,001 f2
n.i.a. balconies = 506 f2

SPECIFIC PLUMBING NOTES

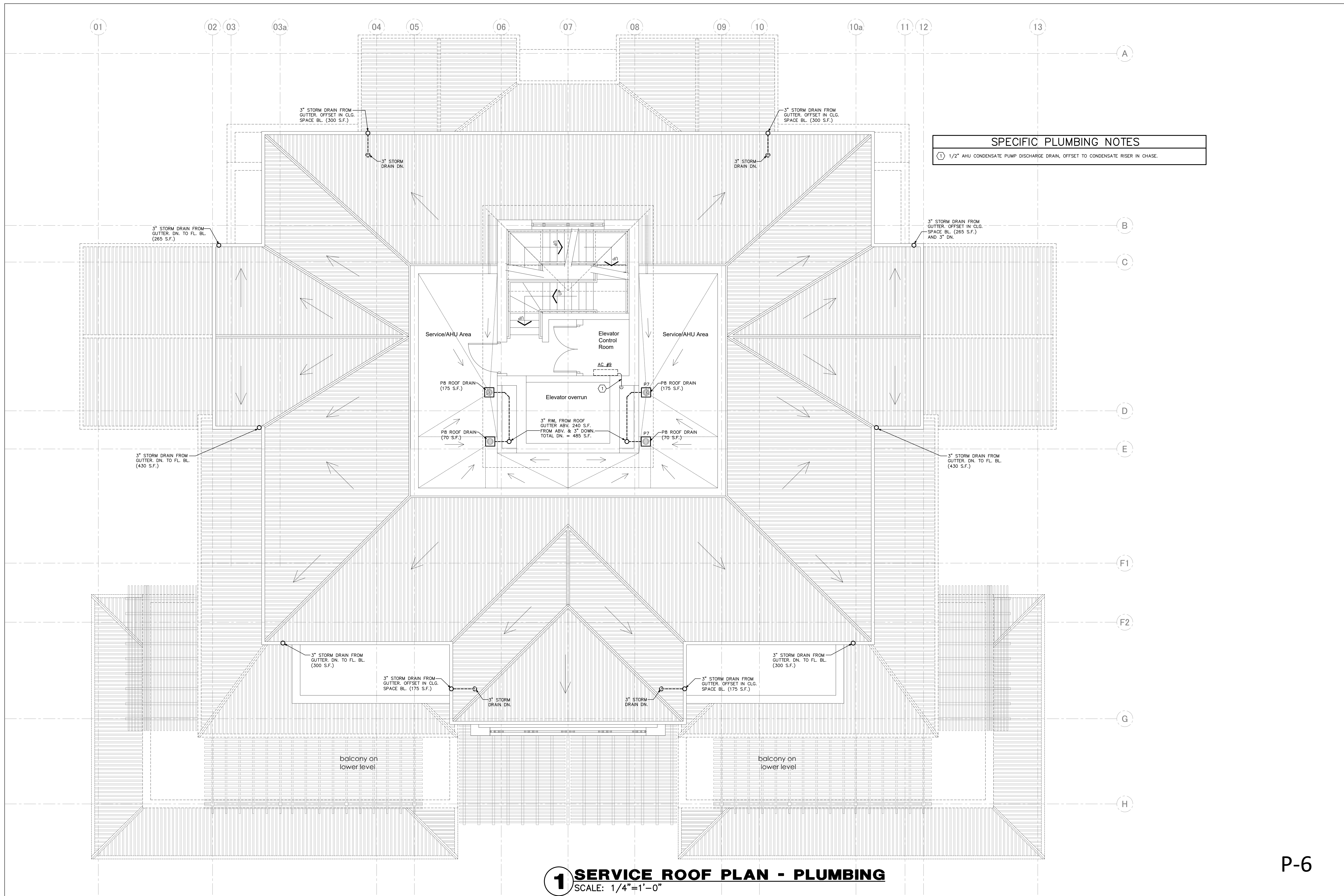
- 1 P&T RELIEF, PAN DRAIN AND CONDENSATE RISERS. REFER TO TYPICAL ISOMETRICS ON SHEET P7.
- 2 1-1/4" AHU CONDENSATE PUMP DISCHARGE DRAIN, OFFSET ABOVE CEILING.
- 3 1/2" AHU CONDENSATE PUMP DISCHARGE DRAIN, OFFSET ABOVE CEILING.

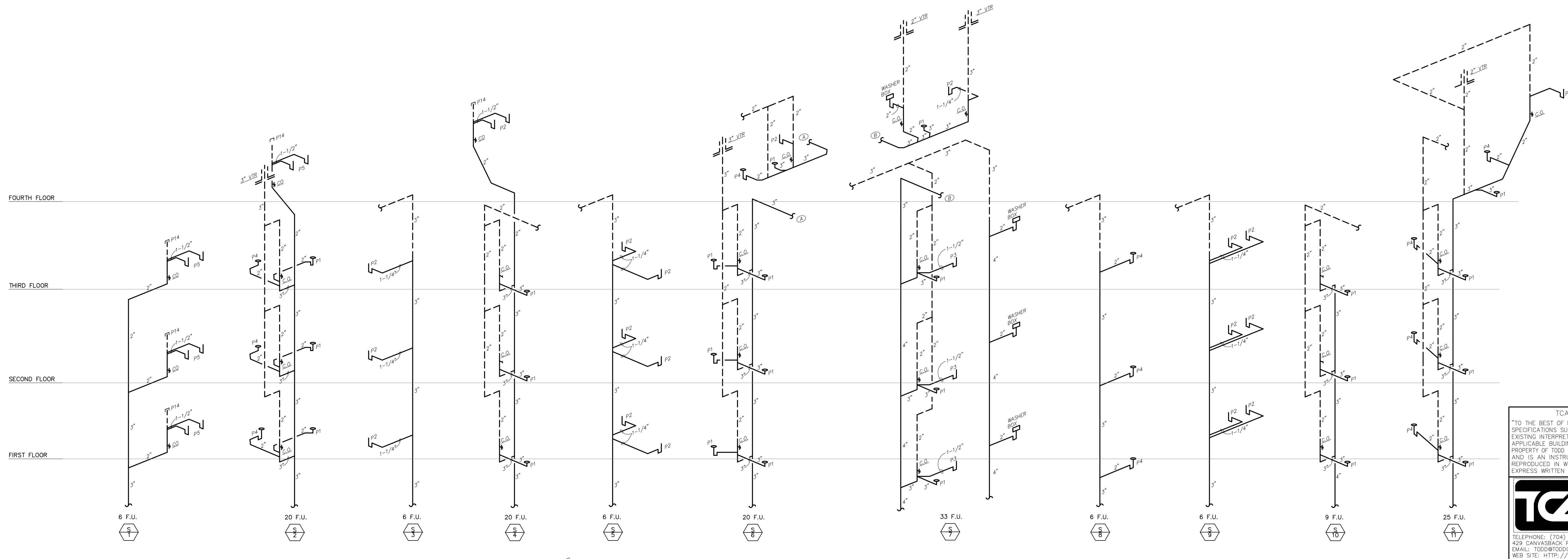
APARTMENT 7- PENTHOUSE
4 bedrooms

n.i.a. covered = 2,294 f2
n.i.a. balconies = 793 f2

SPECIFIC PLUMBING NOTES

- 1 P&T RELIEF, PAN DRAIN AND CONDENSATE RISERS. REFER TO TYPICAL ISOMETRICS ON SHEET P7.
- 2 1-1/4" AHU CONDENSATE PUMP DISCHARGE DRAIN, OFFSET ABOVE CEILING.
- 3 1/2" AHU CONDENSATE PUMP DISCHARGE DRAIN, OFFSET ABOVE CEILING.





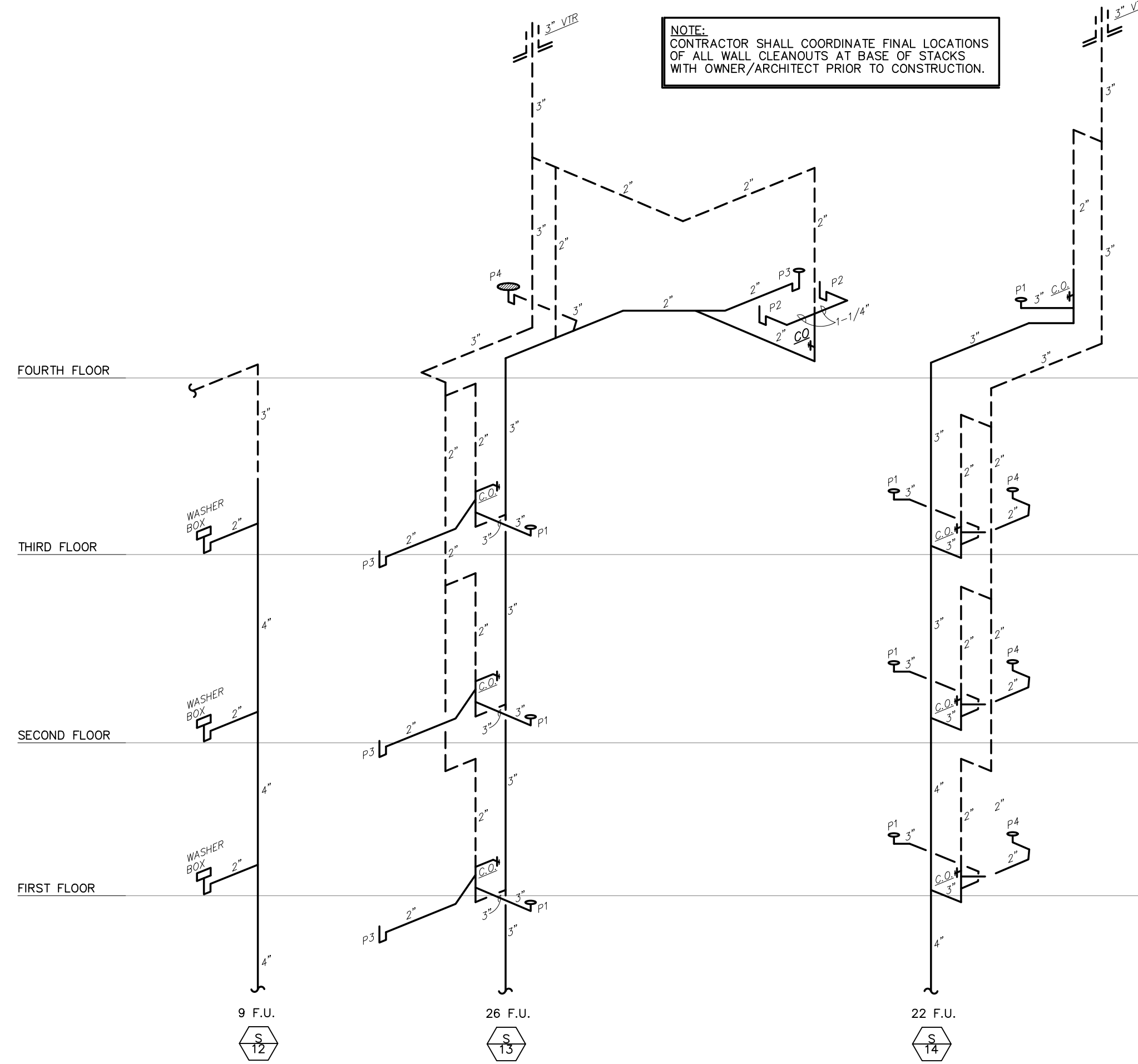
TCA JOB #15082

*TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS SUBMITTED HERewith COMPLY WITH EXISTING INTERPRETATIONS AND PROVISIONS OF THE APPLICABLE BUILDING CODES. THIS DRAWING IS THE PROPERTY OF TODD W. CAREY, PROFESSIONAL ENGINEER, AND IS AN INSTRUMENT OF SERVICE. NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TODD W. CAREY.

TODD W. CAREY
PROFESSIONAL ENGINEER

U.S. VIRGIN ISLANDS
REG. NO. 766-E

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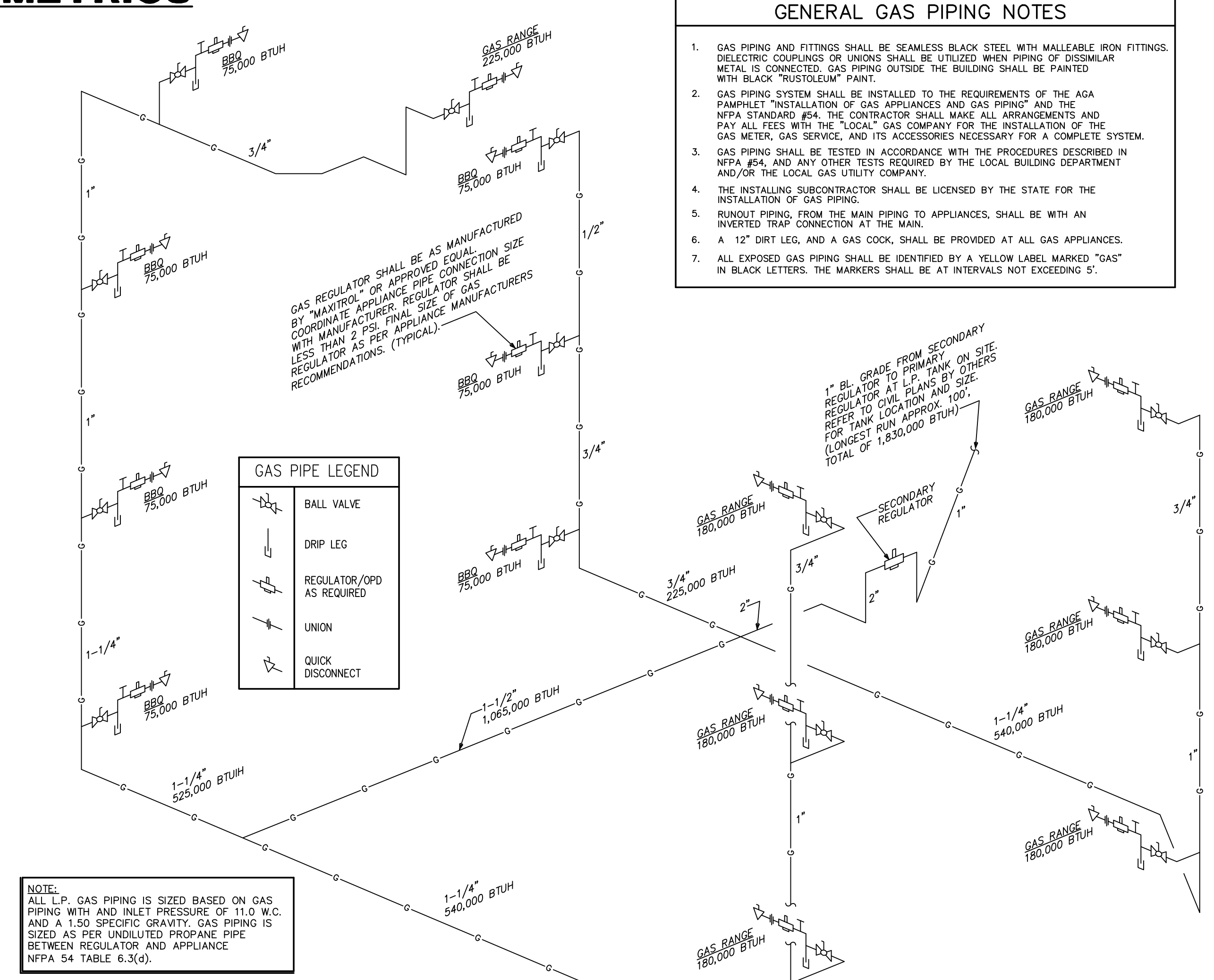
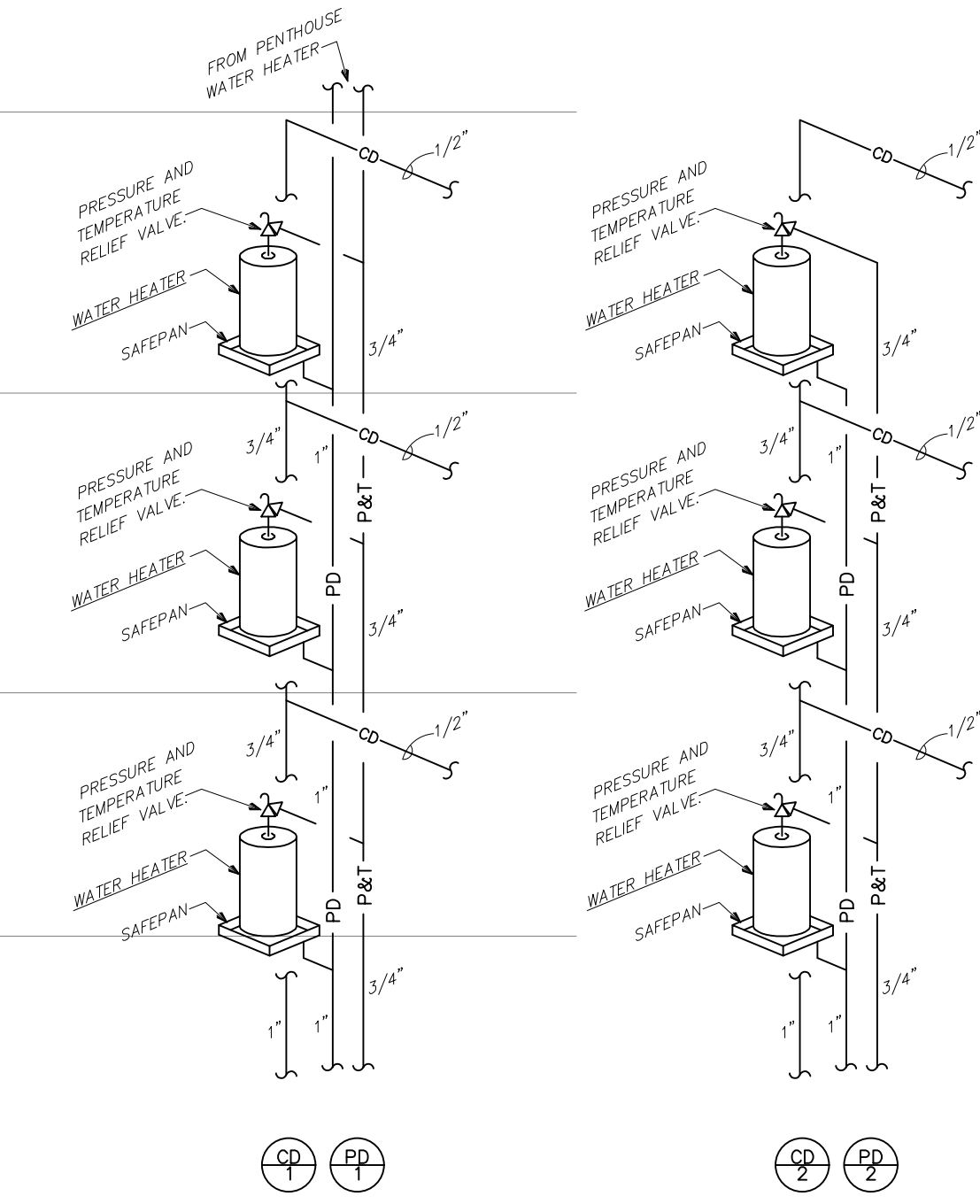
NOTE:
CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL WALL CLEANOUTS AT BASE OF STACKS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.

1 TYPICAL SANITARY ISOMETRICS

NO SCALE

2 TYPICAL SANITARY ISOMETRICS

NO SCALE

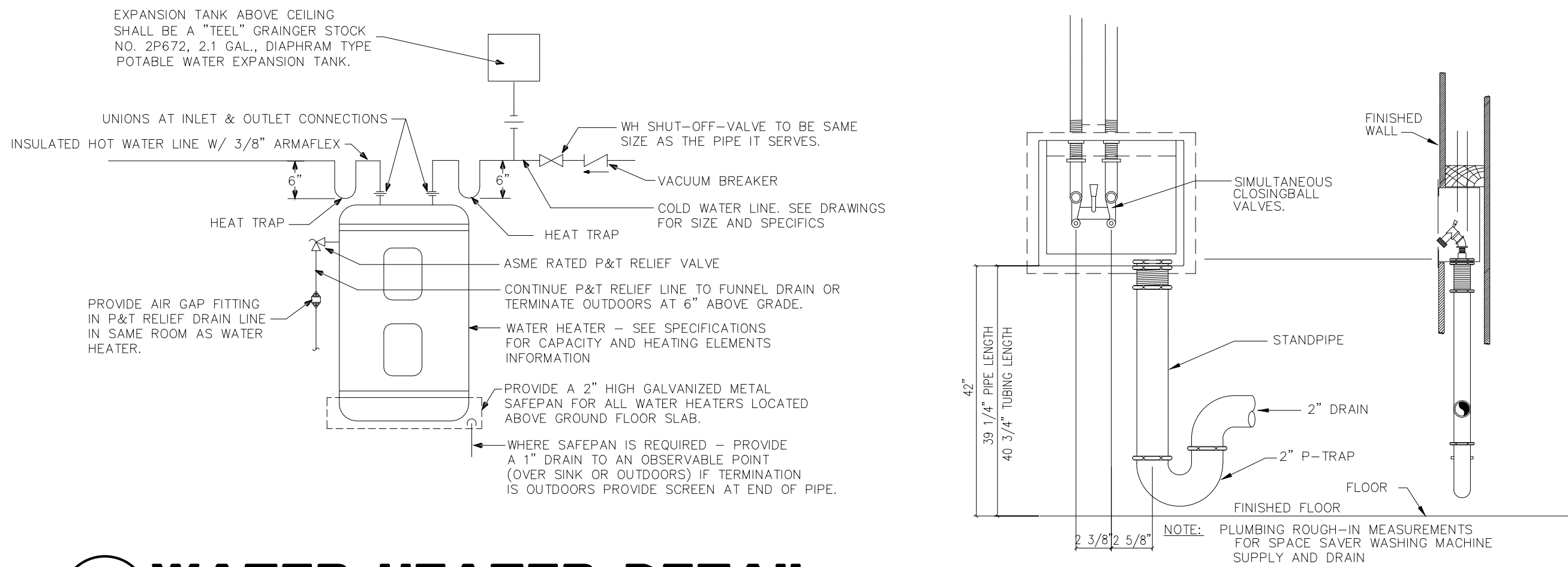


- ### GENERAL GAS PIPING NOTES
1. GAS PIPING AND FITTINGS SHALL BE SEAMLESS BLACK STEEL WITH MALLEABLE IRON FITTINGS. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED. GAS PIPING OUTSIDE THE BUILDING SHALL BE PAINTED WITH BLACK "RUSTOLEUM" PAINT.
 2. GAS PIPING 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.
 7. ALL EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKERS SHALL BE AT INTERVALS NOT EXCEEDING 5'.

NOTE:
ALL L.P. GAS PIPING IS SIZED BASED ON GAS PIPING WITH AN INLET PRESSURE OF 11.0 W.C. AND A 1.50 SPECIFIC GRAVITY. GAS PIPING IS SIZED AS PER UNADULTERATED PROPANE PIPE BETWEEN REGULATOR AND APPLIANCE NFPA 54 TABLE 6.3(d).

3 GAS PIPING ISOMETRIC

NO SCALE

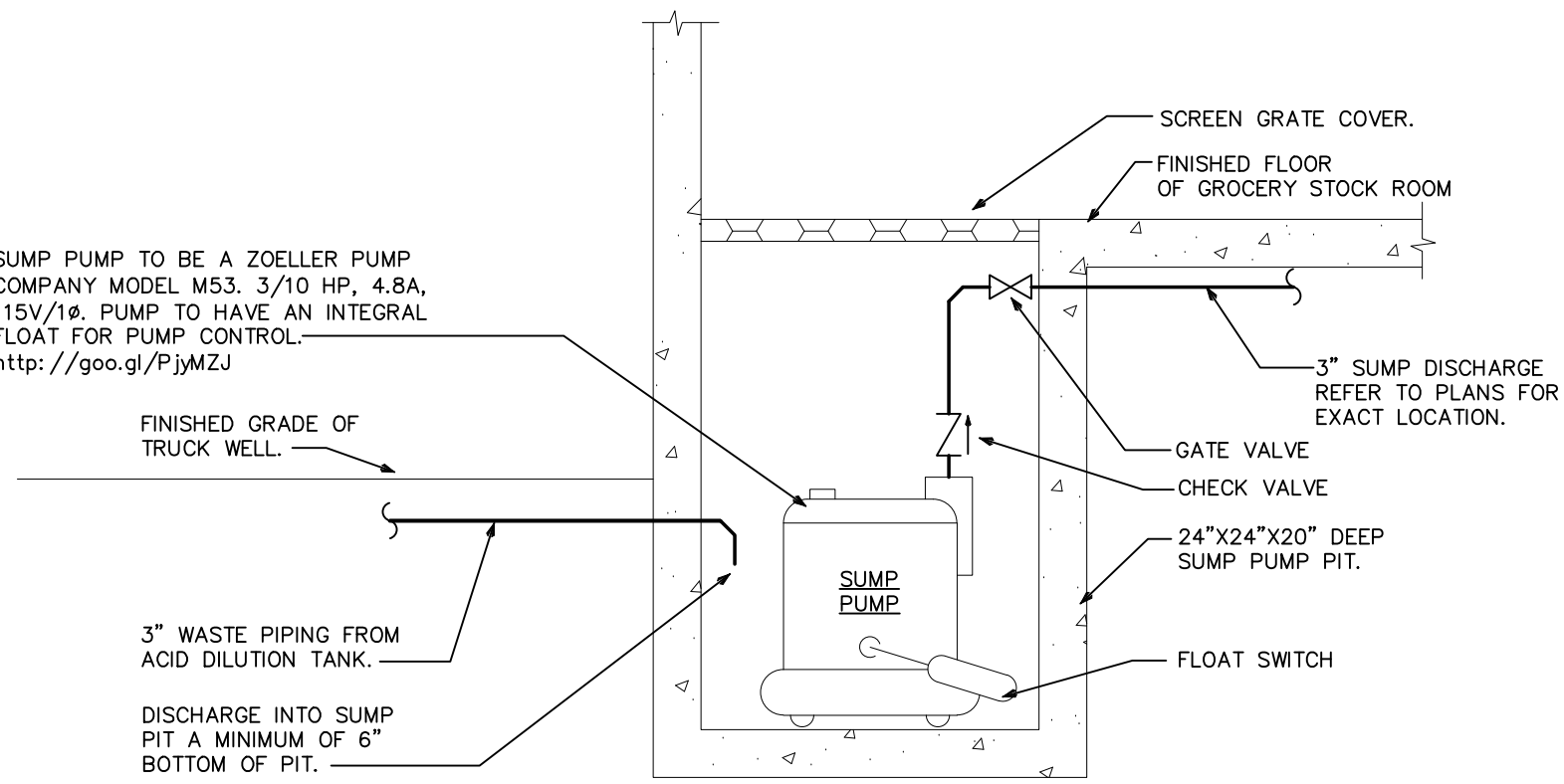


1 WATER HEATER DETAIL

NO SCALE

2 WATER HEATER DETAIL

NO SCALE

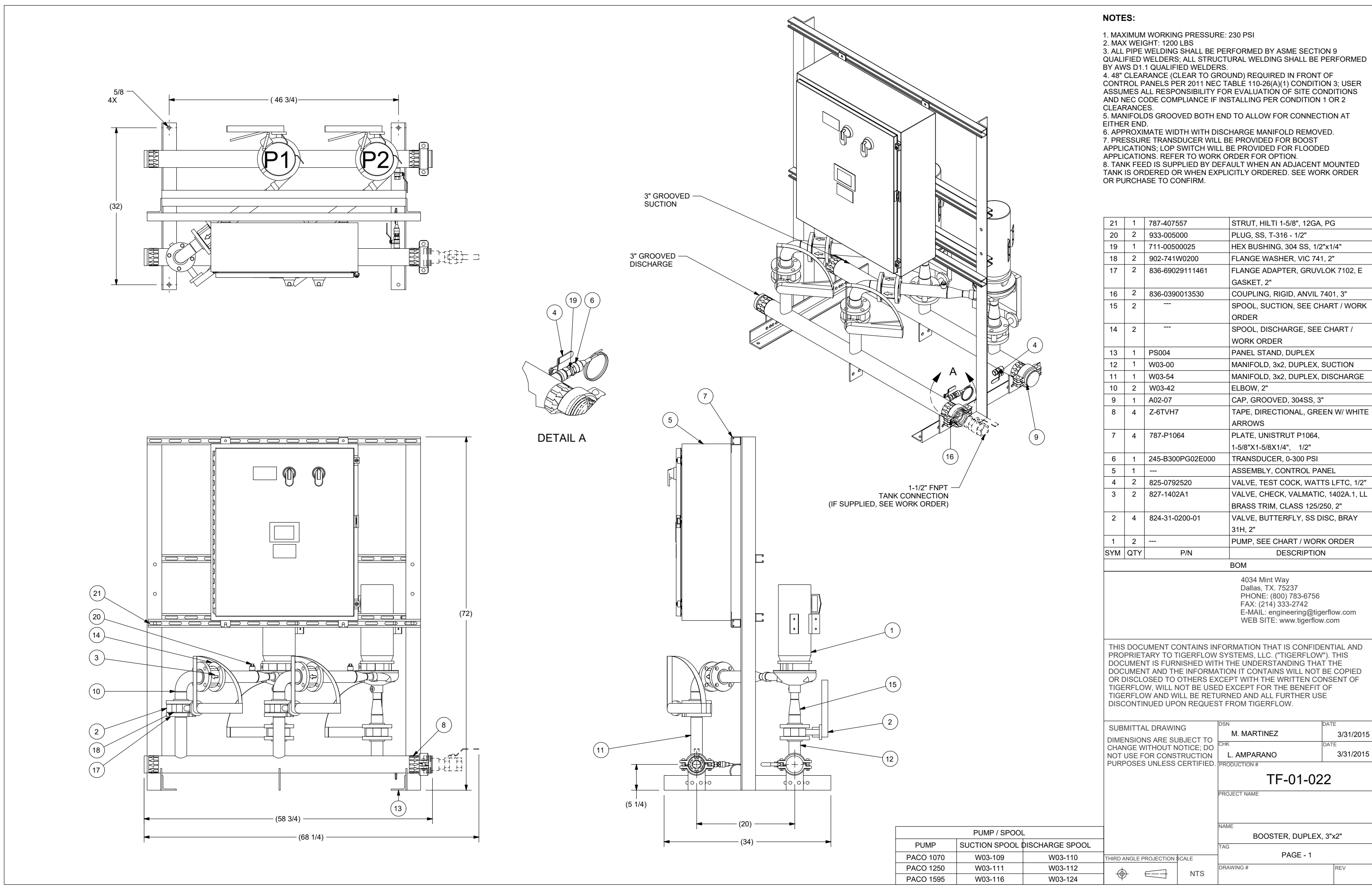


3 SUMP PUMP DETAIL

NO SCALE

PLUMBING FIXTURE SCHEDULE	
P-1 (FLOOR MOUNTED FLUSH TANK WATER CLOSET)	COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
P-2 (COUNTER TOP LAVATORY WITH FAUCET)	COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
P-3 (BATH TUB WITH FAUCET)	COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
P-4 (SHOWER WITH DRAIN, SHOWER HEAD AND MIXING VALVE)	COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
P-5 (2 COMPARTMENT KITCHEN SINK WITH FAUCET)	COORDINATE FINAL SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO BID.
P-6 (6" FLOOR DRAIN WITH TRAP SEAL)	SHALL BE A JOSAM 30003-A SERIES COATED CAST IRON FLOOR DRAIN. 3"Ø PIPE CONNECTION, 6"Ø DRAIN TOP, STRAINER TYPE 6A, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEJLOC INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER. * http://www.josam.com/p/cast-iron-adjustable-round-top-floor-drain/30000-A-FLOOR-DRAIN-TRAP-SEAL SHALL BE A 3"Ø "SURE SEAL" MODEL SS3000 PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER. 5 PIECES: COMMERCIAL GRADE ABS PLASTIC HOUSING AND KEEPER PIN, PROPRIETARY NEOPRENE RUBBER DIAPHRAGM, WITH 2 SOFT RUBBER SEALING GASKETS, FLOOR RATING ASSE-1072 AF-GW. * http://www.thesuresseal.com/Portals/49321/docs/pitch_sheet_ss3000.pdf
P-7 (12"X12" AREA STORM DRAIN W/HINGED GRATE & BUCKET AND 3"Ø OUTLET)	SHALL BE A JOSAM 37803 SERIES COATED CAST IRON AREA DRAIN, TWO-PIECE BODY, FLASHING FLANGE, SEEPAGE SLOTS, BOTTOM OUTLET, NIKALOY SQUARE TOP, MEDIUM-DUTY HINGED GRATE AND CAST IRON MEDIUM-DEEP SEDIMENT BUCKET. TOP FRAME SERVES AS CLAMP RING. * http://www.josam.com/catalog/ps/pl=F/37800
P-8 (ROOF DRAIN)	SHALL BE A JOSAM SERIES 23710. * http://www.josam.com/images/josammkt/zsother/J08_p83.pdf
P-9 (WATER CONNECTION BOX)	SHALL BE A HIGH QUALITY CONNECTION BOX AS SPECIFIED ON PLUMBINGSUPPLY.COM LOCATED ON THIS PAGE " http://www.plumbingsupply.com/icemaker-outlet-boxes.html " SHALL INCLUDE 2 SUPPORT BRACKETS, HIGH IMPACT POLYSTYRENE, 1/4" BRASS BALL VALVE WITH 1/2" SWEAT CONNECTION, OR APPROVED EQUAL.
P-10 (HOSE BIBB INTERIOR W/HANDWHEEL)	SHALL BE A "WOODFORD" MODEL 101 ANTI-SIPHON WALL FAUCET. * http://www.wcinid.com/woodford/Wall_Faucet_Pages/Model=101.html
P-11 (ELECTRIC WATER HEATER)	SHALL BE A LOCHINVAR MODEL KTJ055KD, 55 GALLON GLASSLINED STORAGE TANK, TALL TANK TYPE WATER HEATER WITH (2) - 4.5 KW ELECTRIC ELEMENTS WIRED FOR NON-CONCURRENT INDEPENDENT OPERATION AT 208 VOLTS, SINGLE PHASE INCOMING POWER, 3 YEAR LIMITED WARRANTY ON STORAGE TANK AGAINST TANK FAILURE, WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE STANDARD 90-80A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION. * http://www.lochinvar.com/_linfiles/RE-21.pdf
P-12 (DECK DRAIN)	30003-S-CP SERIES COATED CAST IRON FLOOR DRAIN, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEJLOC INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY SQUARE SUPER-FLO STRAINER. * HTTP://WWW.JOSAM.COM/CATALOG/JOS/30000-S
P-14 (2" STUDOR VENT - AIR ADMITTANCE VALVE)	SHALL BE A IPS CORPORATION "STUDOR MINI-VENT". 2" VENT. * http://www.ipscorp.com/plumbing/studor/minivent
P-15 (EXPOSED OUTDOOR SHOWER KIT WITH HAND SHOWER)	SHALL BE A IPS CORPORATION "STUDOR MINI-VENT". 2" VENT. * http://goo.gl/FUvUvV
P-16 (C.W. BOOSTER PUMP FOR THIRD AND FOURTH FLOORS)	DUPLEX BOOSTER PUMP PACKAGE CONSISTS OF: (1) DESV-1.5 PC C-53 CO-P-VTD NSF/UL/C-UL LISTED IAPMO N-5169 NSF/ANSI 61 CERTIFIED, TIGERFLOW, INC. DUPLEX BOOSTER PUMP PACKAGE TO DELIVER 35 GPM AT 70 PSI DISCHARGE PRESSURE WITH A MINIMUM SUCTION PRESSURE OF 40 PSI SYSTEM IS PREWIRED AND PREPARED FACTORY ASSEMBLED, 3" HEADERS (2) 1.5 HP, 3/208 VOLT, PACO LC END SUCTION CENTRIFUGAL PUMP, EACH PUMP WITH VARIABLE FREQUENCY DRIVES, TO DELIVER 35 GPM AT 78" TDH EACH PUMP (100/100%), DUPLEX NEMA 1 U. L. LABELED CONTROL PANEL, WITH A MAIN DOOR INTERLOCK, NON FUSED DISCONNECT SWITCH, CONSTANT PRESSURE REGARDLESS OF FLOW, PACKAGE IS WITH ALARM PKG WITH 132 GAL. ASME HYDRO ACCUMULATOR TANK "AMTROL" MODEL ST-450-C (24" DIA. TANK) SYSTEM IS COMPLETE U.L. LISTED PACKAGED SYSTEM IS NSF 61 CERTIFIED.
P-17 (12"X12" AREA STORM DRAIN W/HINGED GRATE & BUCKET AND 4"Ø OUTLET)	SHALL BE A JOSAM 37804 SERIES COATED CAST IRON AREA DRAIN, TWO-PIECE BODY, FLASHING FLANGE, SEEPAGE SLOTS, BOTTOM OUTLET, NIKALOY SQUARE TOP, MEDIUM-DUTY HINGED GRATE AND CAST IRON MEDIUM-DEEP SEDIMENT BUCKET. TOP FRAME SERVES AS CLAMP RING. * http://www.josam.com/catalog/ps/pl=F/37800
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.	

GENERAL PLUMBING NOTES	
1.) 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. CONTRACTOR IS RESPONSIBLE TO INSTALL ALL FIXTURES AND EQUIPMENT IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THIS REQUIREMENT IS TO SUPERSEDE ANY DETAILS OR INFORMATION CONTAINED ON THESE DRAWINGS.	
2.) ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.	
3.) 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.	
4.) ALL MATERIAL SHALL BE NEW.	
5.) 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.	
6.) ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.	
7.) THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.	
8.) ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.	
9.) 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.	
10.) VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.	
11.) ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.	
12.) ALL BELOW FLOOR SLAB WATER PIPING SHALL BE FLEXIBLE "TEMPRITE PEX (CROSS-LINKED POLYETHYLENE)" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.LUBRIZOL.COM . ALL ABOVE SLAB WATER PIPING SHALL BE "FLOWGUARD GOLD CPVC" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.FLOWGUARDGOLD.COM . ALL WATER PIPING AS SPECIFIED OR APPROVED EQUAL. ALL 2" WATER PIPING SHALL BE TYPE "L" COPPER AND TYPE "K" COPPER FOR 2 1/2" AND LARGER. (OR APPROVED EQUAL)	
13.) 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.	
14.) 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.	
15.) FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AT EACH GROUP OF FIXTURES. INSTALLATION OF WATER HAMMER ARRESTORS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL AN APPROVED WATER HAMMER ARRESTOR AT EACH FIXTURE OR DEVICE THAT HAS A SOLENOID WATER CONTROL VALVE.	
16.) PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM 58890.	
17.) INSTALL LINES AS FOLLOWS: A) 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE. B) 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON HW PIPING & H.W. RECIRC. PIPING, ONLY WHEN THERE IS A H.W. RECIRCULATING PIPING SYSTEM. C.) CONDENSATE PIPING: 1/2" THICK ARMAFLEX PREFORMED OR APPROVED EQUAL.	
18.) STORM DRAIN PIPING SHALL BE SCHED. 40 PVC.	



4 C.W. BOOSTER PUMP DETAIL

NO SCALE

- NOTES:**
1. MAXIMUM WORKING PRESSURE: 230 PSI
 2. MAX WEIGHT: 1200 LBS
 3. ALL PIPE WELDING SHALL BE PERFORMED BY ASME SECTION 9 QUALIFIED WELDERS. ALL STRUCTURAL WELDING SHALL BE PERFORMED BY AWS D1.1 QUALIFIED WELDERS.
 4. 4"Ø CLEARANCE (CLEAR TO GROUND) REQUIRED IN FRONT OF CONTROL PANELS PER 2011 NEC TABLE 110.26(A)(1) CONDITION 3. USER ASSUMES ALL RESPONSIBILITY FOR EVALUATION OF SITE CONDITIONS AND NEC CODE COMPLIANCE IF INSTALLING PER CONDITION 1 OR 2 CLEARANCES.
 5. MANIFOLD GROOVED BOTH END TO ALLOW FOR CONNECTION AT EITHER END.
 6. APPROXIMATE WIDTH WITH DISCHARGE MANIFOLD REMOVED.
 7. PRESSURE TRANSDUCER WILL BE PROVIDED FOR BOOST APPLICATIONS. LOP SWITCH WILL BE PROVIDED FOR FLOODED APPLICATIONS. REFER TO WORK ORDER FOR OPTION.
 8. TANK FEED IS SUPPLIED BY DEFAULT WHEN AN ADJACENT MOUNTED TANK IS ORDERED OR WHEN EXPLICITLY ORDERED. SEE WORK ORDER OR PURCHASE TO CONFIRM.

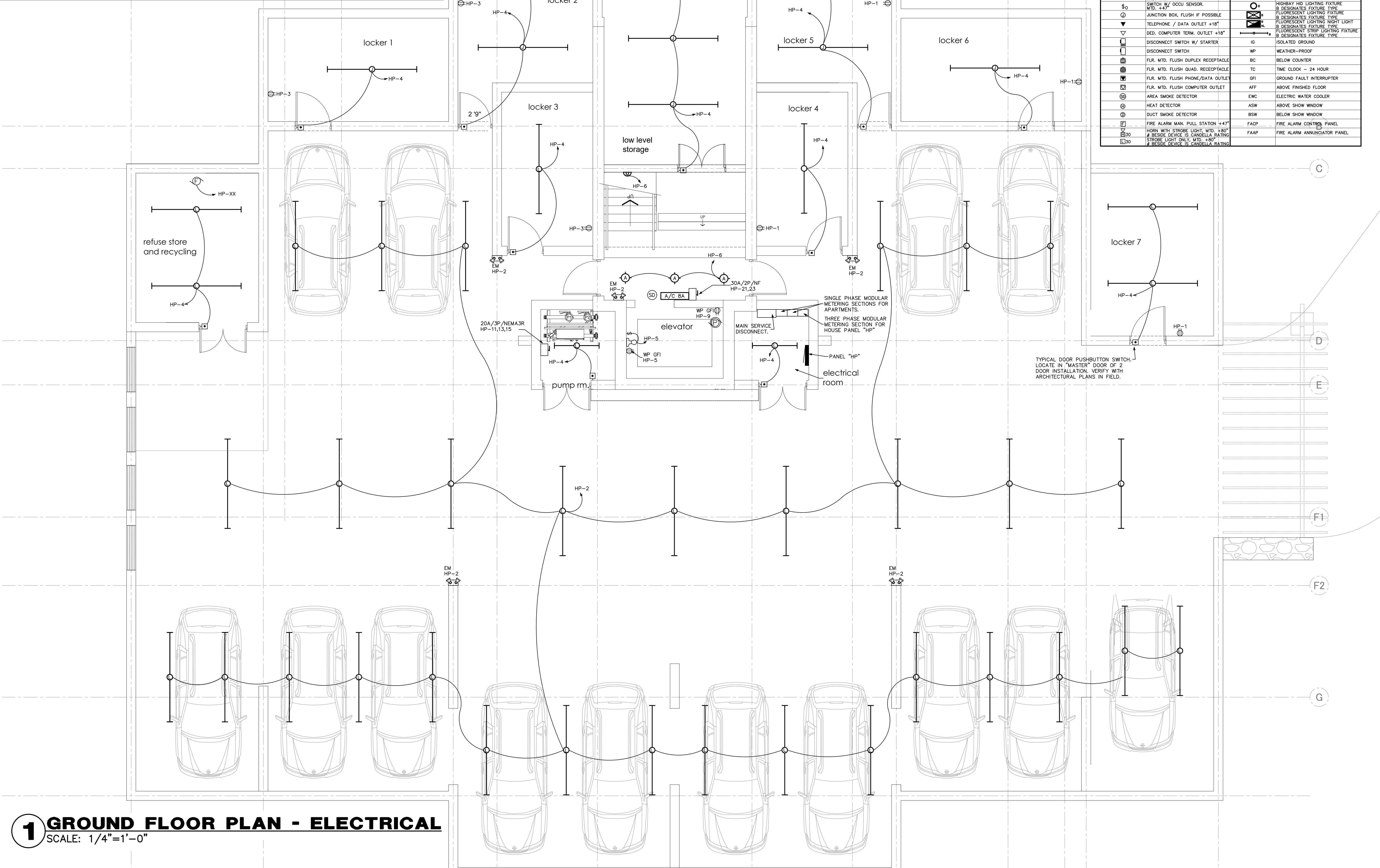
21	1	787-407557	STRUT, HLT1-1-5/8", 12GA, PG
20	2	933-005000	PLUG, SS, T-316 - 1/2"
19	1	711-00500025	HEX BUSHING, 304 SS, 1/2"x1/4"
18	2	302-741W0200	FLANGE WASHER, VIC T41-2"
17	2	836-6902911461	FLANGE ADAPTER, GRUWLOK 7102, E GASKET, 2"
16	2	836-0390013530	COUPLING, RIGID, ANVIL 7401, 3"
15	2	---	SPOOL, SUCTION, SEE CHART / WORK ORDER
14	2	---	SPOOL, DISCHARGE, SEE CHART / WORK ORDER
13	1	PS004	PANEL STAND, DUPLEX
12	1	W03-00	MANIFOLD, 3/2, DUPLEX, SUCTION
11	1	W03-54	MANIFOLD, 3/2, DUPLEX, DISCHARGE
10	2	W03-42	ELBOW, 2"
9	1	A02-07	CAP, GROOVED, 304SS, 3"
8	4	Z-6TVH7	TAPE, DIRECTIONAL, GREEN W/ WHITE ARROWS
7	4	787-P1064	PLATE, UNISTRUT P1064, 1-5/8"x1-5/8"x1/4", 12"
6	1	245-B300PG02E000	TRANSDUCER, 0-300 PSI
5	1	---	ASSEMBLY, CONTROL PANEL
4	2	825-0792920	VALVE, TEST COOK, WATTS LFTC, 1/2"
3	2	827-1402A1	VALVE, CHECK, VALMATIC, 1402A.1, LL BRASS TRIM, CLASS 125/250, 2"
2	4	824-31-0200-01	VALVE, BUTTERFLY, SS DISC, BRAY 31H, 2"
1	2	---	PUMP, SEE CHART / WORK ORDER
SYM	QTY	PIN	DESCRIPTION

BOCM			
4034 Mott Way Dallas, TX 75237 PHONE: (800) 763-4756 FAX: (214) 333-2742 E-MAIL: engineering@tigerflow.com WEB SITE: www.tigerflow.com			
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SUBMITTAL DRAWING	DR	M. MARTINEZ	DATE
DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.	DR	L. AMPARANO	DATE
TF-01-022			
PROJECT NAME			
NAME BOOSTER, DUPLEX, 3"x2"			
TAGS			
PAGE - 1			
DRAWING #			
REV			

PUMP / SPOOL			
PUMP	SUCTION SPOOL	DISCHARGE SPOOL	
PACO 1070	W03-109	W03-110	
PACO 1250	W03-111	W03-112	
PACO 1595	W03-116	W03-124	

LIGHTING FIXTURE SCHEDULE							
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	6" RECESSED LED DOWNLIGHT	WHITE		120	725 LUMENS 12.7W	LITHONIA 6BPMW LED 3000K 83CRI L7X	
B	4" RECESSED LED DOWNLIGHT	WHITE		120	620 LUMENS 10.6W	LITHONIA 4BPMW LED 3000K 83CRI L3X	
C	LED WALL CYLINDER LIGHT	WHITE	POLYCARBONATE	120	270 LUMENS 9W	LITHONIA OLLWD-MVOLT-WH	SEE ARCH PLAN FOR ELEVATION OF LIGHT
D	6" LED W/ WALL WASHER TRIM	WHITE	LED	120	21.5W	LITHONIA EVO LW 35/10 6AR 120	nL ORDER NPS80EZ
EM	EMERGENCY EGRESS	WHITE		120	INCLUDED	LITHONIA ELMZ	W/ BATTERY BACKUP
EX	EXIT SIGN	WHITE	RED	120	INCLUDED	LITHONIA LE--SW2R-120/277-EUN	W/ BATTERY BACKUP
F	INCANDESCENT LIGHT BAR	CHROME		120	(4) 75W	SEAQUILL LIGHTING 4701-962	24" POLISHED CHROME W/ 4 LAMPS
G	WALL LIGHT	BRONZE	POLYCARBONATE	120	LED 14W	LITHONIA OLLWU DDB	
H	LED STRIP LIGHTS	WARM WHITE		120	1.3W PER FT.	BIRDDOG -- BRILLIANT 120V SMD--3528	
J	STRIPLIGHT	WHITE	LED	120	6000 LUMENS 60W	LITHONIA TZL10 L96 6000LM FSTMVOLT	80CRI WH nL ORDER NPP16D
K	PENDANT LIGHT	GLASS BLUE	LED	120	9.5W	LITHONIA DGNG 1007	
M	MINI SCENCE	NICKEL	LED	120	LUMENS 9.5W	LITHONIA MWSC BNP	nL ORDER NPP16D

ELECTRICAL SYMBOLS LEGEND			
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	DUPLEX RECEPTACLE, MTD. +18" AFF		TRANSFORMER - SIZE AS NOTED
	240 VOLT RECEPTACLE (HIT. AS REQ.)		PANEL - SIZE AS NOTED
	QUADRUPLEX RECEPTACLE, MTD. +18"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT. RECEPTACLE +42"		F-FAN, V-MOTOR, P-PUMP
	SINGLE POLE SWITCH, MTD. +47"		SPECIAL OUTLET - AS REQUIRED
	THREE-WAY SWITCH, MTD. +47"		EXIT SIGN (S INDICATES PANEL) *2" DESIGNATES CIRCUIT NUMBER
	MANUAL STARTER SWITCH		EXIT SIGN: ONE SIDED, OR TWO SIDED
	DIMMER SWITCH, MTD. +47"		EMERGENCY LIGHTING
	SWITCH W/ ILLUM WHEN ON MTD. +47"		RECESSED MOUNTED LIGHTING FIXTURE
	THREE-WAY SWITCH W/ OCCU SENSOR MTD. +47"		B DESIGNATES FIXTURE TYPE
	SWITCH W/ OCCU SENSOR, MTD. +47"		OVERHEAD OCCUPANCY SENSOR
	JUNCTION BOX, FLUSH IF POSSIBLE		HIGH BAY HD LIGHTING FIXTURE
	TELEPHONE / DATA OUTLET +18"		B DESIGNATES FIXTURE TYPE
	DED. COMPUTER TERM. OUTLET +18"		FLUORESCENT LIGHTING NIGHT LIGHT
	DISCONNECT SWITCH W/ STARTER		B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH		ISOLATED GROUNDING
	FLR. MTD. FLUSH DUPLEX RECEPTACLE		WP WEATHER-PROOF
	FLR. MTD. FLUSH QUAD. RECEPTACLE		BC BELOW COUNTER
	FLR. MTD. FLUSH PHONE/DATA OUTLET		TC TIME CLOCK - 24 HOUR
	FLR. MTD. FLUSH COMPUTER OUTLET		GFI GROUND FAULT INTERRUPTER
	AREA SMOKE DETECTOR		AFF ABOVE FINISHED FLOOR
	HEAT DETECTOR		EWC ELECTRIC WATER COOLER
	DUCT SMOKE DETECTOR		ASW ABOVE SHOW WINDOW
	FIRE ALARM MAN. PULL STATION +47"		BSW BELOW SHOW WINDOW
	HORN WITH STROBE LIGHT, MTD. +80"		FACP FIRE ALARM CONTROL PANEL
	STROBE LIGHT, MTD. +80"		FAAP FIRE ALARM ANNUNCIATOR PANEL
	B DESIGNATES TYPE IS CANDELLA RATING		
	STROBE LIGHT ONLY, MTD. +80"		
	B DESIGNATES TYPE IS CANDELLA RATING		



1 GROUND FLOOR PLAN - ELECTRICAL
SCALE: 1/4"=1'-0"

n.i.A. = 1,836 f2
n.i.A. bAlconies = 1,219 f2

n.i.A. = 1,836 f2
n.i.A. bAlconies = 1,219 f2

n.i.A. = 1,836 f2
n.i.A. bAlconies = 1,385 f2

n.i.A. = 1,836 f2
n.i.A. bAlconies = 1,385 f2

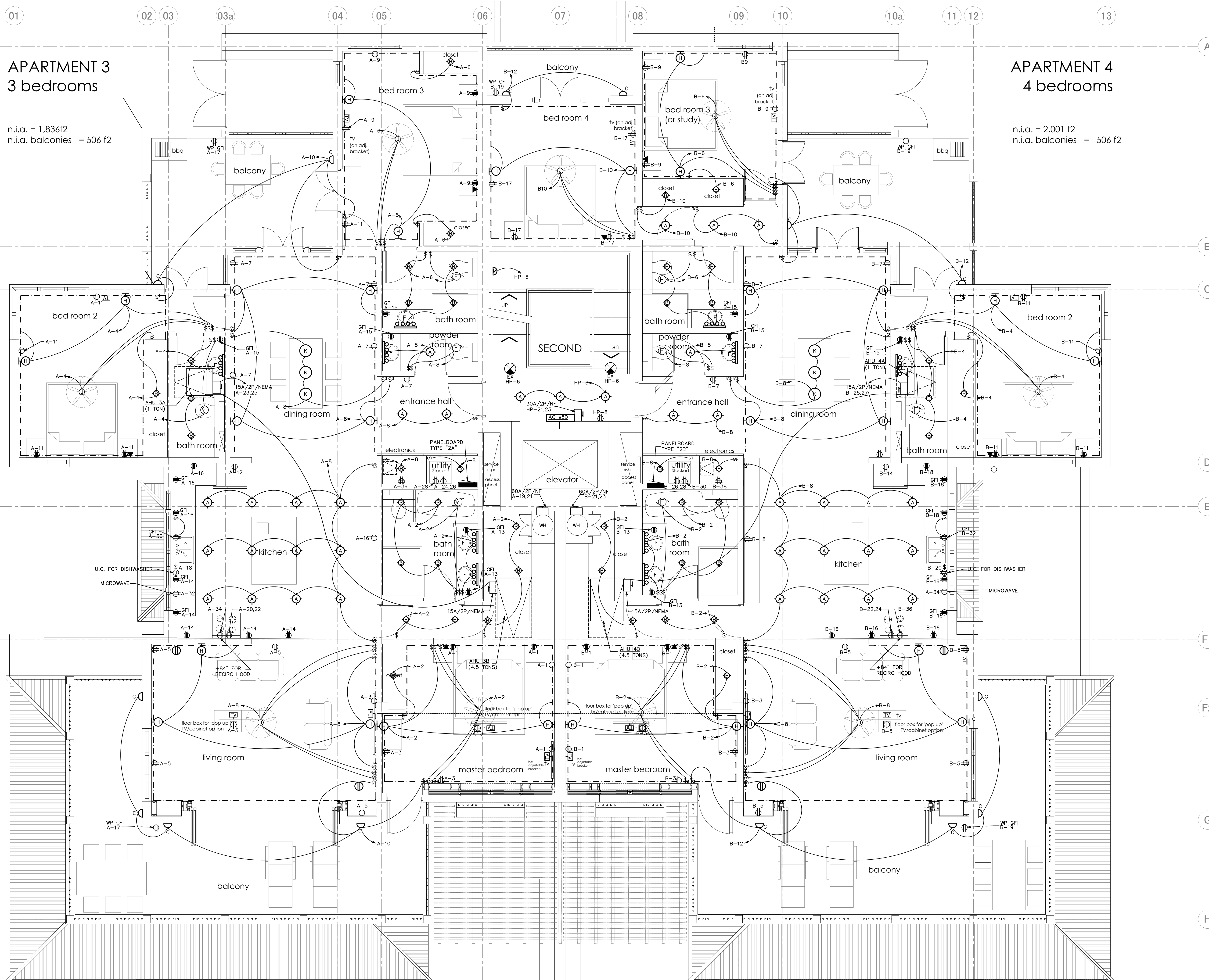


APARTMENT 3
3 bedrooms

n.i.a. = 1,836 f2
n.i.a. balconies = 506 f2

APARTMENT 4
4 bedrooms

n.i.a. = 2,001 f2
n.i.a. balconies = 506 f2



ELECTRICAL KEYNOTES
1 SEPARATE SWITCH FOR LIGHT AND FAN

ELECTRICAL KEYNOTES
1 PROVIDE A SEPARATE SWITCH FOR LIGHT AND FAN
2 PROVIDE FLUSH JUNCTION BOX WITH COVER AND 1" E.C. TO PANEL FOR POSSIBLE FUTURE HOT TUB.
3 LED ROPE LIGHT WITH MOUNTING BRACKET SO LIGHT SHINES BACK AND DOWN TO CLOTHES. MOUNT ROPE LIGHT 2" BACK FROM SHELF EDGE

APARTMENT 5 3 bedrooms

n.i.a. = 1,836f2
n.i.a. balconies = 506 f2

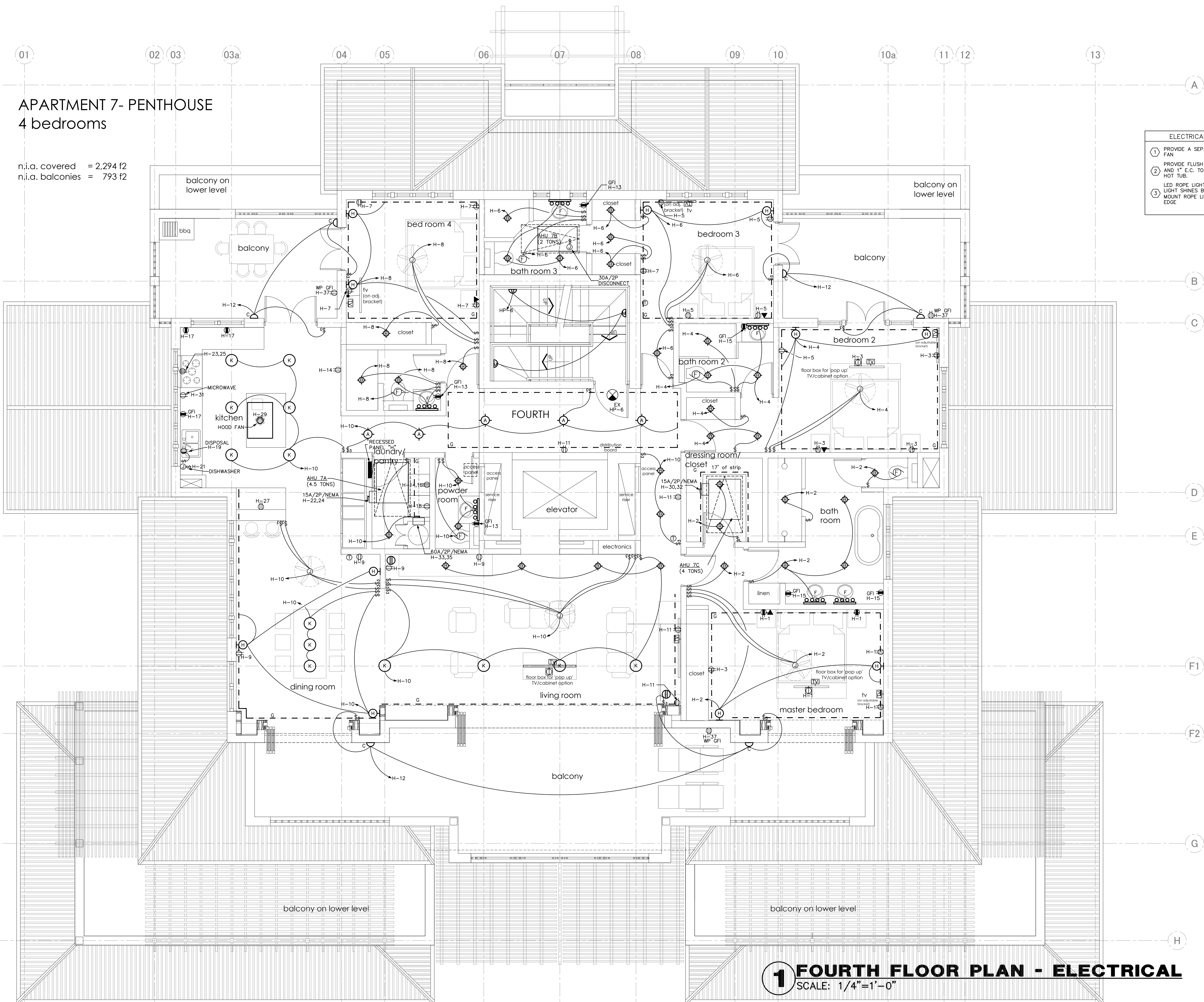
APARTMENT 6 4 bedrooms

n.i.a. = 2,001 f2
n.i.a. balconies = 506 f2

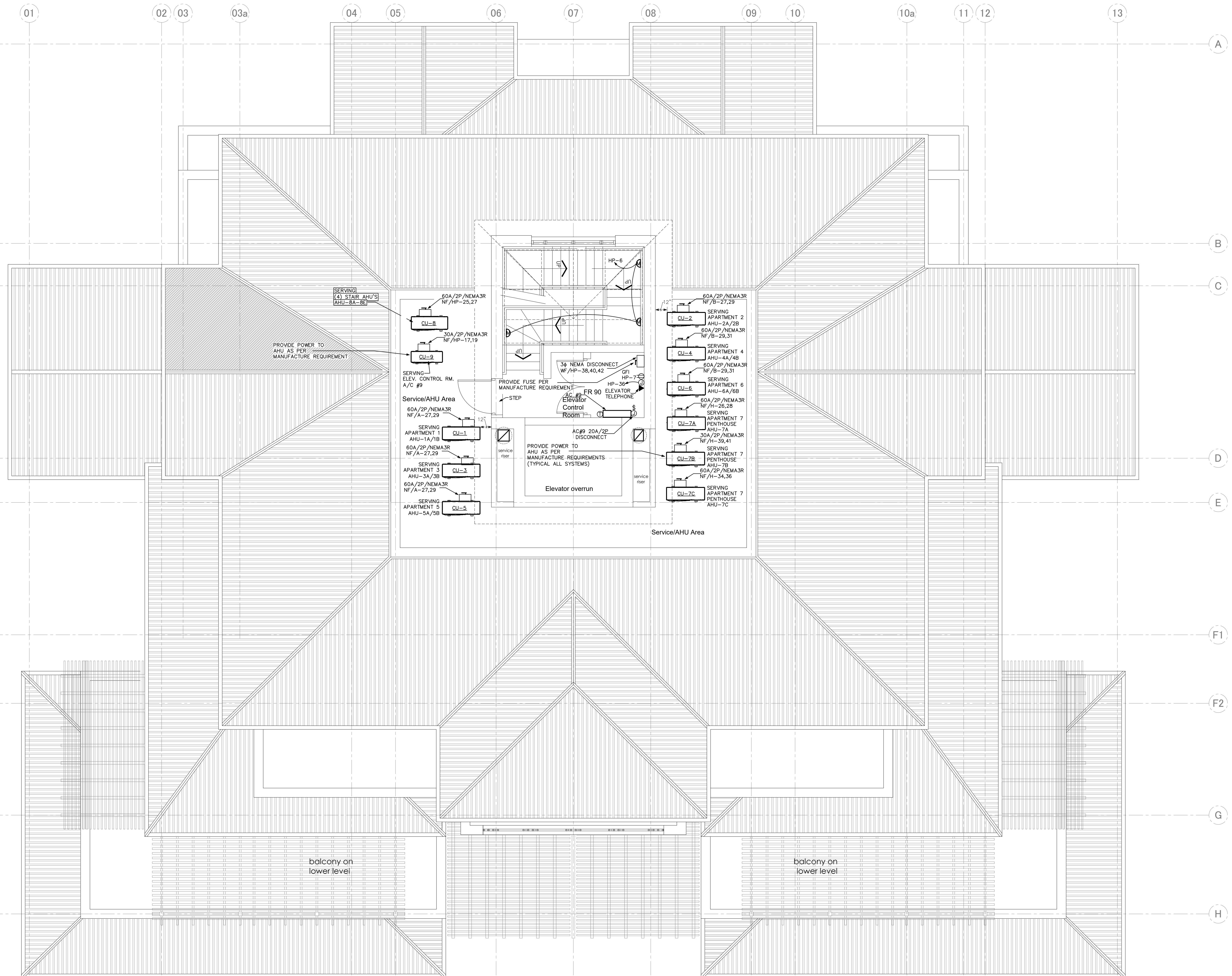
ELECTRICAL KEYNOTES	
1	PROVIDE A SEPARATE SWITCH FOR LIGHT AND FAN
2	PROVIDE FLUSH JUNCTION BOX WITH COVER AND 1" E.C. TO PANEL FOR POSSIBLE FUTURE HOT TUB.
3	LED ROPE LIGHT WITH MOUNTING BRACKET SO LIGHT SHINES BACK AND DOWN TO CLOTHES. MOUNT ROPE LIGHT 2" BACK FROM SHELF EDGE.

APARTMENT 7- PENTHOUSE
4 bedrooms

n.i.a. covered = 2,294 f2
n.i.a. balconies = 793 f2



ELECTRICAL KEYNOTES	
①	PROVIDE A SEPARATE SWITCH FOR LIGHT AND FAN
②	PROVIDE FLUSH JUNCTION BOX WITH COVER AND 1" E.C. TO PANEL FOR POSSIBLE FUTURE HOT TUB.
③	LED ROPE LIGHT WITH MOUNTING BRACKET SO LIGHT SHINES BACK AND DOWN TO CLOTHES. MOUNT ROPE LIGHT 2" BACK FROM SHELF EDGE



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

PANEL SCHEDULE H																			
200 AMP, 120/208 VOLT, SINGLE PHASE, THREE WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																			
#	BKR.	WIRE AND CONDUIT					LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LOAD DESCRIPTION	WIRE AND CONDUIT					BKR.	#	
		COND.	NEUTRAL	GND	C.	KEYS						KEYS	C.	GND	NEUTRAL	COND.			
1	20/1	#12	#12	#12	1/2	CHAL	MASTER BDRM RECEPTACLES	900	900	-----	MASTER BDRM LIGHTS	CHAL	1/2	#12	#12	#12	20/1	2	
3	20/1	#12	#12	#12	1/2	CHAL	BEDROOM 2 RECEPTACLES	1390	1390	-----	BEDROOM 2 LIGHTS	CHAL	1/2	#12	#12	#12	20/1	4	
5	20/1	#12	#12	#12	1/2	CHAL	BEDROOM 3 RECEPTACLES	1500	1500	-----	BEDROOM 3 LIGHTS	CHAL	1/2	#12	#12	#12	20/1	6	
7	20/1	#12	#12	#12	1/2	CHAL	BEDROOM 4 RECEPTACLES	1096	1096	-----	BEDROOM 4 LIGHTS	CHAL	1/2	#12	#12	#12	20/1	8	
9	20/1	#12	#12	#12	1/2	CHAL	DINING ROOM RECEPTACLES	1200	1200	-----	LIVING, DIN, KIT ROOM LIGHT	CHAL	1/2	#12	#12	#12	20/1	10	
11	20/1	#12	#12	#12	1/2	CHAL	LIVING ROOM RECEPTACLES	1500	1596	-----	OUT DOOR LIGHTS	CHAL	1/2	#12	#12	#12	20/1	12	
13	20/1	#12	#12	#12	1/2	CHAL	BATHROOM RECEPTACLE	900	900	-----	DRYER	CHAL	1/2	#10	---	#10	30/2	14	
15	20/1	#12	#12	#12	1/2	CHAL	BATHROOM RECEPTACLE	900	900	-----	WASHER	CHAL	1/2	#12	#12	#12	20/1	16	
17	20/1	#12	#12	#12	1/2	CHAL	KITCHEN RECEPTACLE	1725	1725	-----	AIR HANDLER/UNIT 7A	CHAL	1/2	#12	---	#12	15/2	20	
19	20/1	#12	#12	#12	1/2	CHAL	DISPOSAL	500	500	-----	CONDENSING UNIT 7A	CHAL	1/2	#12	---	#8	45/2	24	
21	20/1	#12	#12	#12	1/2	CHAL	DISHWASHER	1500	1500	-----	HOOD FAN	CHAL	1/2	#12	---	#12	15/2	28	
23	30/2	#10	---	#10	1/2	CHAL	STOVE	0	520	-----	MICROWAVE	CHAL	1/2	#12	---	#12	15/2	32	
25	30/2	#10	---	#12	1/2	CHAL	STOVE	0	2500	-----	WATER HEATER	CHAL	1/2	#10	---	#10	40/2	36	
27	20/1	#12	#12	#12	1/2	CHAL	REFRIGERATOR	0	3640	-----	OUT DOOR RECEPTACLES	CHAL	1/2	#12	---				
29	20/1	#12	#12	#12	1/2	CHAL	HOOD FAN	600	600	-----	CONDENSING UNIT 7B	CHAL	1/2	#12	---				
31	20/1	#12	#12	#12	1/2	CHAL	MICROWAVE	1200	1200	-----	CONDENSING UNIT 7C	CHAL	1/2	#12	---				
33	60/2	#6	---	#12	1/2	CHAL	WATER HEATER	0	4500	-----	SPACE								
35	60/2	#6	---	#12	1/2	CHAL	WATER HEATER	0	2704	-----	SPACE								
37	20/1	#12	#12	#12	1/2	CHAL	OUT DOOR RECEPTACLES	900	900	-----	SPACE								
39	30/2	#12	---	#12	1/2	CHAL	CONDENSING UNIT 7B	0	1872	-----	SPACE								
41	30/2	#12	---	#12	1/2	CHAL	CONDENSING UNIT 7B	0	1872	-----	SPACE								
WIRE/CONDUIT KEY								TEMP RATING											
1234								32965 29220 PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 118.4 AMPS											
1								62,185 NON DIVERSIFIED LOAD AT 208 VOLT, SINGLE PHASE = 299. AMPS											
1								PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001											
1								REGISTERED TO - TODD W. CAREY AND ASSOCIATES											

PANEL H DIVERSIFICATION CALCULATIONS	
BASED ON RESIDENTIAL 220.82 CALCULATION COVERING 3078 SQUARE FEET	
NEC 220.82 GENERAL LOADS FOR CALCULATION	
LIGHTING AND RECEPTACLES	9234
3078 SQUARE FEET X 3.0 WATTS/FOOT	- 9234
MOTOR LOADS AT 100%	- 600
MISC APPLIANCE LOADS AT 100%	- 1500
MISC NON-CONTINUOUS LOADS AT 100%	- 15725
TOTAL GENERAL LOADS	- 27659
FIRST 10KW OF GEN LOADS AT 100%	- 10000
REMAINDER OF GEN LOADS AT 40%	- 7664
PLUS HVAC LOADS AT 100%	- 18512
TOTAL DIVERSIFIED PANEL LOAD	- 35576
LOAD AT 120/208V/1-Phase/3-Wire	- 171.6A

PANEL SCHEDULE B																			
125 AMP, 120/208 VOLT, SINGLE PHASE, THREE WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																			
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.	#			
		COND.	NEUTRAL	GND	C. KEYS						KEYS	C.	GND	NEUTRAL			COND.		
1	20/1	#12	#12	#12	1/2	CHAL MASTER BDRM RECEPTACLE	1200	1200	-----	MASTER BDRM LIGHTS	CHAL	1/2	#12	#12	15/1	2			
3	20/1	#12	#12	#12	1/2	CHAL MASTER BDRM RECEPTACLE	1440	1440	-----	1200	-----								
5	20/1	#12	#12	#12	1/2	CHAL LIVING RM RECEPTACLE	1060	1060	-----	1060	-----	CHAL	1/2	#12	#12	15/1	4		
7	20/1	#12	#12	#12	1/2	CHAL DINING RM RECEPTACLE	1200	1200	-----	1200	-----	CHAL	1/2	#12	#12	15/1	6		
9	20/1	#12	#12	#12	1/2	CHAL BEDROOM 3 RECEPTACLE	1115	1115	-----	1115	-----	CHAL	1/2	#12	#12	15/1	8		
11	20/1	#12	#12	#12	1/2	CHAL BEDROOM 2 RECEPTACLE	1200	1200	-----	1170	-----	BEDRM,LIVING,KIT, LIGHTS	CHAL	1/2	#12	#12	15/1	8	
13	20/1	#12	#12	#12	1/2	CHAL BATHROOM RECEPTACLE	1200	1200	-----	500	-----	BEAD ROOM 4 LIGHTS	CHAL	1/2	#12	#12	15/1	10	
15	20/1	#12	#12	#12	1/2	CHAL BATHROOM RECEPTACLE	72	72	-----	1500	-----	OUTSIDE LIGHTS	CHAL	1/2	#12	#12	15/1	12	
17	15/1	#12	#12	#12	1/2	CHAL BATHROOM 4 RECEPTACLES	600	600	-----	900	-----	REFRIGERATOR	CHAL	1/2	#12	#12	15/1	14	
19	20/1	#12	#12	#12	1/2	CHAL OUTSIDE WP RECEPTACLE	900	900	-----	600	-----	KITCHEN RECEPTACLES	CHAL	1/2	#12	#12	15/1	16	
21	60/2	#6	---	#12	1/2	CHAL WATER HEATER	600	600	-----	1200	-----	KITCHEN RECEPTACLES	CHAL	1/2	#12	#12	15/1	18	
23	60/2	#6	---	#12	1/2	CHAL WATER HEATER	900	900	-----	720	-----	KITCHEN RECEPTACLES	CHAL	1/2	#12	#12	15/1	18	
25	15/2	#12	---	#12	1/2	CHAL AIR HANDLER UNIT	500	500	-----	900	-----	DISHWASHER	CHAL	1/2	#12	#12	15/1	20	
27	40/2	#8	---	#12	1/2	CHAL CONDENSING UNIT	1500	1500	-----	4500	-----	OVEN	CHAL	1/2	#10	---	#10	30/2	24
29	40/2	#8	---	#12	1/2	CHAL CONDENSING UNIT	0	4500	-----	2640	-----	DRYER	CHAL	1/2	#10	---	#10	30/2	26
31	40/2	#8	---	#12	1/2	CHAL CONDENSING UNIT	0	520	-----	2500	-----	WASHER	CHAL	1/2	#12	#12	20/1	30	
33						SPACE	0	3120	-----	1725	-----	DISPOSAL	CHAL	1/2	#12	#12	20/1	32	
35						SPACE	1200	1200	-----	500	-----	MICROWAVE	CHAL	1/2	#12	#12	15/1	34	
37						SPACE	1200	1200	-----	0	-----	HOOD	CHAL	1/2	#12	#12	15/1	36	
39						SPACE	360	360	-----	0	-----	ELECTRONICS RECEPTACLE	CHAL	1/2	#12	#12	15/1	38	
41						SPACE	0	0	-----	0	-----							40	
43						SPACE	0	0	-----	0	-----							42	
WIRE/CONDUIT KEY							26640 25082 PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 111.3 AMPS												
1234							NON DIVERSIFIED LOAD AT 208 VOLT, SINGLE PHASE = 248.7 AMPS												
1							51,722												
1							PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001												
1							REGISTERED TO - TODD W. CAREY AND ASSOCIATES												

PANEL B DIVERSIFICATION CALCULATIONS	
BASED ON RESIDENTIAL 220.82 CALCULATION COVERING 1836 SQUARE FEET	
NEC 220.82 GENERAL LOADS FOR CALCULATION	
LIGHTING AND RECEPTACLES	5508
1836 SQUARE FEET X 3.0 WATTS/FOOT	- 5508
MISC APPLIANCE LOADS AT 100%	- 1500
MISC NON-CONTINUOUS LOADS AT 100%	- 15725
TOTAL GENERAL LOADS	- 22733
FIRST 10KW OF GEN LOADS AT 100%	- 10000
REMAINDER OF GEN LOADS AT 40%	- 5093
PLUS HVAC LOADS AT 100%	- 7280
TOTAL DIVERSIFIED PANEL LOAD	- 22373
LOAD AT 120/208V/1-Phase/3-Wire	- 107.6A

PANEL SCHEDULE A																
125 AMP, 120/208 VOLT, SINGLE PHASE, THREE WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.	#
		COND.	NEUTRAL	GND	C. KEYS						KEYS	C.	GND	NEUTRAL		
1	20/1	#12	#12	#12	1/2	CHAL MASTER BDRM RECEPTACLE	1200	1200	-----	MASTER BDRM LIGHTS	CHAL	1/2	#12	#12	20/1	2
3	20/1	#12	#12	#12	1/2	CHAL MASTER BDRM RECEPTACLE	1440	1440	-----	BEDROOM 2 LIGHTS	CHAL	1/2	#12	#12	20/1	4
5	20/1	#12	#12	#12	1/2	CHAL LIVING RM RECEPTACLE	1200	1200	-----	BEDROOM 3 LIGHTS	CHAL	1/2	#12	#12	20/1	6
7	20/1	#12	#12	#12	1/2	CHAL DINING RM RECEPTACLE	1115	1115	-----	DINING,LIVING,KIT, LIGHTS	CHAL	1/2	#12	#12	20/1	8
9	20/1	#12	#12	#12	1/2	CHAL BEDROOM 3 RECEPTACLE	1200	1200	-----	OUTSIDE LIGHTS	CHAL	1/2	#12	#12	20/1	10
11	20/1	#12	#12	#12	1/2	CHAL BEDROOM 2 RECEPTACLE	72	72	-----	REFRIGERATOR	CHAL	1/2	#12	#12	20/1	12
13	20/1	#12	#12	#12	1/2	CHAL BATHROOM RECEPTACLE	900	900	-----	KITCHEN RECEPTACLES	CHAL	1/2	#12	#12	20/1	14
15	20/1	#12	#12	#12	1/2	CHAL BATHROOM RECEPTACLE	900	900	-----	KITCHEN RECEPTACLES	CHAL	1/2	#12	#12	20/1	16
17	20/1	#12	#12	#12	1/2	CHAL OUTSIDE WP RECEPTACLE	600	600	-----	DISHWASHER	CHAL	1/2	#12	#12	20/1	18
19	60/2	#6	----	#12	1/2	CHAL WATER HEATER	1500	1500	-----	DVEN	CHAL	1/2	#10	----	#10	30/2
21	60/2	#6	----	#12	1/2	CHAL WATER HEATER	0	4500	-----	DRYER	CHAL	1/2	#10	----	#10	30/2
23	15/2	#12	----	#12	1/2	CHAL AIR HANDLER UNIT	0	2640	-----	WASHER	CHAL	1/2	#12	#12	#12	20/1
25	15/2	#12	----	#12	1/2	CHAL AIR HANDLER UNIT	0	2500	-----	DISPOSAL	CHAL	1/2	#12	#12	#12	20/1
27	40/2	#8	----	#12	1/2	CHAL CONDENSING UNIT	0	3120	-----	MICROWAVE	CHAL	1/2	#12	#12	#12	20/1
29						SPACE	1200	1200	-----	HOOD	CHAL	1/2	#12	#12	#12	20/1
31						SPACE	0	0	-----	ELECTRONICS RECEPTACLE	CHAL	1/2	#12	#12	#12	20/1
33						SPACE	360	0	-----	SPACE						
35						SPACE	0	0	-----	SPACE						
37						SPACE	0	0	-----	SPACE						
39						SPACE	0	0	-----	SPACE						
41						SPACE	0	0	-----							
WIRE/CONDUIT KEY							24807	24915	PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 97. AMPS							
1234								49,722	NON DIVERSIFIED LOAD AT 208 VOLT, SINGLE PHASE = 239. AMPS							
L-TEMP RATING							PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001									
CONDUIT TYPE																
INSULATION							REGISTERED TO - TODD V. CAREY AND ASSOCIATES									
WIRING TYPE																