THE SKYVIEW CONDOMINIUMS

VOLUME # 2

(M.E.P.FP)

REVISION # 13
02/22/2016

PROJECT TEAM

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TAMPA, FL 33602
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MEPF ENGINEER

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220 WEST 7TH AVENUE, #210
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ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-3-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

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400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

COVER SHEET

PROJECT NO.: 130270.00

G000B

DRAWING INDEX

DWG	DRAWING TITLE	PERMIT SET 11/14/14	PERMIT REV 01/30/15	PERMIT REV 03/17/15	PERMIT REV 04/23/15	STRUCT REV 5-11*	PH REV 12 10/13/15	PERMIT REV 02/22/16
MECHANICAL								
M001	LEGEND SYMBOLS AND GENERAL NOTES	●						
M101	BASEMENT FLOOR PLAN - MECHANICAL	●						
M102	FIRST FLOOR PLAN - MECHANICAL	●	●					
M103	SECOND FLOOR PLAN - MECHANICAL	●	●	●				
M104	THIRD - FOURTH FLOOR PLAN - MECHANICAL	●	●	●				
M105	FIFTH FLOOR PLAN - MECHANICAL	●	●	●	●			
M106	SIXTH FLOOR PLAN - MECHANICAL	●	●	●	●			
M107	SEVENTH FLOOR PLAN - MECHANICAL	●	●	●	●			●
M108	EIGHTH FLOOR PLAN - MECHANICAL	●	●	●	●			
M109	NINTH FLOOR PLAN - MECHANICAL	●	●					●
M110	TENTH FLOOR PLAN - MECHANICAL	●	●					
M201	ENLARGED UNIT PLANS - MECHANICAL	●						
M202	ENLARGED UNIT PLANS - MECHANICAL	●						
M203	ENLARGED UNIT PLANS - MECHANICAL	●						
M204	ENLARGED UNIT PLANS - MECHANICAL	●						●
M205	ENLARGED UNIT PLANS - MECHANICAL	●					●	
M206	ENLARGED UNIT PLANS - MECHANICAL	●					●	
M207	ENLARGED UNIT PLANS - MECHANICAL	●					●	
M208	ENLARGED UNIT PLANS - MECHANICAL	●	●	●	●		●	●
M209	ENLARGED UNIT PLANS - MECHANICAL	●					●	
M210	ENLARGED UNIT PLANS - MECHANICAL	●					●	
M301	DETAILS - MECHANICAL	●					●	
M302	DETAILS - MECHANICAL	●					●	
M303	DETAILS - MECHANICAL	●					●	
M304	DETAILS - MECHANICAL	●					●	
M305	DETAILS - MECHANICAL	●					●	
M306	DETAILS - MECHANICAL	●		●			●	
M401	SCHEDULES - MECHANICAL	●					●	●
M402	SCHEDULES - MECHANICAL	●	●				●	
M403	SCHEDULES - MECHANICAL	●					●	●
M501	WATERSIDE FLOW DIAGRAM - MECHANICAL	●		●			●	
M502	AIRSIDE FLOW DIAGRAM - MECHANICAL	●					●	
M503	AIR-COOLED VRF SYSTEM SCHEMATIC - MECHANICAL						●	

DWG	DRAWING TITLE	PERMIT SET 11/14/14	PERMIT REV 01/30/15	PERMIT REV 03/17/15	PERMIT REV 04/23/15	STRUCT REV 5-11*	PH REV 12 10/13/15	PERMIT REV 02/22/16
PLUMBING								
P001	LEGEND SYMBOLS AND GENERAL NOTES		●	●	●			
P002	PLUMBING SCHEDULES		●					
P100	SITE PLUMBING PLAN		●	●				
P101	BASEMENT FLOOR PLAN - GRAVITY		●	●	●			
P102	FIRST FLOOR PLAN - GRAVITY		●	●	●			
P103	SECOND FLOOR PLAN - GRAVITY		●					
P104	THIRD - FOURTH FLOOR PLAN - GRAVITY		●					●
P105	FIFTH FLOOR PLAN - GRAVITY		●					●
P106	SIXTH FLOOR PLAN - GRAVITY		●					●
P107	SEVENTH FLOOR PLAN - GRAVITY		●					
P108	EIGHTH FLOOR PLAN - GRAVITY		●					
P109	NINTH FLOOR PLAN - GRAVITY		●					●
P110	TENTH FLOOR PLAN - GRAVITY		●					●
P111	ROOF PLAN - GRAVITY		●					●
P201	BASEMENT FLOOR PLAN - PRESSURE		●					
P202	FIRST FLOOR PLAN - PRESSURE		●					
P203	SECOND FLOOR PLAN - PRESSURE		●					
P204	THIRD - FOURTH FLOOR PLAN - PRESSURE		●					
P205	FIFTH FLOOR PLAN - PRESSURE		●					
P206	SIXTH FLOOR PLAN - PRESSURE		●				●	
P207	SEVENTH FLOOR PLAN - PRESSURE		●				●	
P208	EIGHTH FLOOR PLAN - PRESSURE		●				●	
P209	NINTH FLOOR PLAN - PRESSURE		●				●	
P210	TENTH FLOOR PLAN - PRESSURE		●				●	
P301	ENLARGED PLANS - GRAVITY		●	●			●	
P302	ENLARGED PLANS - GRAVITY		●				●	
P303	ENLARGED PLANS - GRAVITY		●				●	
P304	ENLARGED PLANS - GRAVITY		●				●	
P305	ENLARGED PLANS - GRAVITY		●				●	
P306	ENLARGED PLANS - PRESSURE		●				●	
P307	ENLARGED PLANS - PRESSURE		●				●	
P308	ENLARGED PLANS - PRESSURE		●				●	
P309	ENLARGED PLANS - PRESSURE		●				●	
P310	ENLARGED PLANS - PRESSURE		●				●	
P401	PLUMBING RISERS - GRAVITY		●				●	
P402	PLUMBING RISERS - GRAVITY UNITS		●	●			●	●
P403	PLUMBING RISERS - GRAVITY UNITS		●		●	●	●	
P404	PLUMBING RISERS - PRESSURE UNITS		●				●	
P405	PLUMBING RISERS - PRESSURE UNITS		●				●	
P406	PLUMBING RISERS - PRESSURE UNITS		●				●	
P407	NATURAL GAS RISER		●	●	●	●	●	●
P501	DETAILS		●	●	●		●	
P502	DETAILS		●				●	
P503	DETAILS		●				●	
FIRE PROTECTION								
FP001	LEGEND SYMBOLS AND GENERAL NOTES		●					
FP100	SITE PLUMBING PLAN		●					
FP101	BASEMENT FLOOR PLAN - FIRE PROTECTION		●					
FP102	FIRST FLOOR PLAN - FIRE PROTECTION		●					●
FP103	SECOND FLOOR PLAN - FIRE PROTECTION		●					
FP104	THIRD - FOURTH FLOOR PLAN - FIRE PROTECTION		●					
FP105	FIFTH FLOOR PLAN - FIRE PROTECTION		●					
FP106	SIXTH FLOOR PLAN - FIRE PROTECTION		●					
FP107	SEVENTH FLOOR PLAN - FIRE PROTECTION		●					
FP108	EIGHTH FLOOR PLAN - FIRE PROTECTION		●					
FP109	NINTH FLOOR PLAN - FIRE PROTECTION		●					
FP110	TENTH FLOOR PLAN - FIRE PROTECTION		●					
FP111	ROOF PLAN - FIRE PROTECTION		●					

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ELECTRICAL							
E000	LEGEND SCHEDULES AND DETAILS	●				●	●
E100	SITE ELECTRICAL PLAN	●				●	●
E101	BASEMENT FLOOR PLAN - POWER	●				●	●
E102	FIRST FLOOR PLAN - POWER	●				●	●
E103	SECOND FLOOR PLAN - POWER	●				●	●
E104	THIRD FLOOR PLAN - POWER	●				●	●
E105	FOURTH FLOOR PLAN - POWER	●				●	●
E106	FIFTH FLOOR PLAN - POWER	●				●	●
E107	SIXTH FLOOR PLAN - POWER	●				●	●
E108	SEVENTH FLOOR PLAN - POWER	●				●	●
E109	EIGHTH FLOOR PLAN - POWER	●				●	●
E110	NINTH FLOOR PLAN - POWER	●				●	●
E111	TENTH FLOOR PLAN - POWER	●	●			●	●
E112	ROOF FLOOR PLAN - POWER	●	●			●	●
E113	ROOF FLOOR PLAN - LIGHTNING PROTECTION	●				●	
E201	BASEMENT FLOOR PLAN - LIGHTING	●				●	●
E202	FIRST FLOOR PLAN - LIGHTING	●				●	●
E203	SECOND FLOOR PLAN - LIGHTING	●	●			●	●
E204	THIRD FLOOR PLAN - LIGHTING	●	●			●	
E205	FOURTH FLOOR PLAN - LIGHTING	●	●			●	
E206	FIFTH FLOOR PLAN - LIGHTING	●	●			●	
E207	SIXTH FLOOR PLAN - LIGHTING	●	●			●	
E208	SEVENTH FLOOR PLAN - LIGHTING	●	●			●	
E209	EIGHTH FLOOR PLAN - LIGHTING	●	●			●	●
E210	NINTH FLOOR PLAN - LIGHTING	●	●			●	●
E211	TENTH FLOOR PLAN - LIGHTING	●	●			●	●
E212	ROOF FLOOR PLAN - LIGHTING	●				●	●
E301	ENLARGED UNIT PLANS - ELECTRICAL	●				●	●
E302	ENLARGED UNIT PLANS - ELECTRICAL	●				●	
E303	ENLARGED UNIT PLANS - ELECTRICAL	●				●	●
E304	ENLARGED UNIT PLANS - ELECTRICAL	●				●	●
E305	ENLARGED UNIT PLANS - ELECTRICAL	●				●	●
E306	ENLARGED UNIT PLANS - ELECTRICAL	●				●	●
E307	ENLARGED UNIT PLANS - ELECTRICAL	●				●	●
E308	ENLARGED UNIT PLANS - ELECTRICAL	●				●	
E309	ENLARGED UNIT PLANS - ELECTRICAL	●				●	
E310	ENLARGED UNIT PLANS - ELECTRICAL	●				●	
E311	ENLARGED UNIT PLANS - ELECTRICAL	●				●	
E401	COMMUNICATION RISER DIAGRAM	●				●	
E402	TWO-WAY COMMUNICATION RISER DIAGRAM	●				●	
E403	FIRE ALARM RISER DIAGRAM	●				●	
E404	POWER RISER DIAGRAM	●	●			●	
E501	SCHEDULES AND CALCULATIONS	●	●			●	
E502	PANEL SCHEDULES	●	●			●	
E503	PANEL SCHEDULES	●				●	
E504	PANEL SCHEDULES	●	●			●	
E505	PANEL SCHEDULES					●	
E506	PANEL SCHEDULES					●	

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INDEX OF DRAWINGS

PROJECT NO.: 130270.00

G001B

HVAC ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	LWT	LEAVING WATER TEMPERATURE
AFR	ABOVE FINISHED ROOF	MBH	THOUSAND BTUs PER HOUR
AHU	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPS
AP	ACCESS PANEL	MOCP	MAXIMUM OVER CURRENT PROTECTION
BOP	BOTTOM OF PIPE	MOD	MOTOR OPERATED CONTROL DAMPER (MOD)
BHP	BRAKE HORSEPOWER	NC	NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NO	NORMALLY OPEN
CT	COOLING TOWER	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CU	CONDENSING UNIT	OAL	OUTSIDE AIR LOUVER
DDC	DIRECT DIGITAL CONTROLS	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PRS	PRESSURE REDUCING STATION
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
ESP	EXTERNAL STATIC PRESSURE	PSIG	PSI GAUGE
EWT	ENTERING WATER TEMPERATURE	PTAC	PACKAGED TERMINAL AIR CONDITIONER
FCU	FAN COIL UNIT	RA	RETURN AIR
FF	FINAL FILTERS	RHC	REHEAT COIL
FLA	FULL LOAD AMPS	RPM	REVOLUTIONS PER MINUTE
FPM	FEET PER MINUTE	SA	SUPPLY AIR
GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE
KW	KILOWATT	TSP	TOTAL STATIC PRESSURE
LAT	LEAVING AIR TEMPERATURE	UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE	V/PH	VOLTS/PHASE
FD/SD	COMBO FIRE/SMOKE DAMPER	VAV	VARIABLE AIR VOLUME

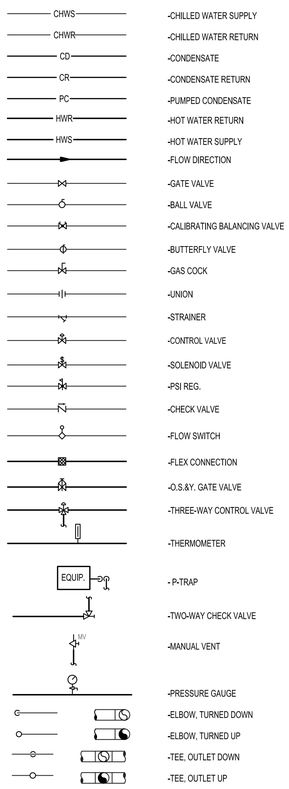
DESIGN CRITERIA

OUTSIDE AIR DESIGN CRITERIA:	SUMMER - 91°F DB / 79°F WB WINTER - 40°F DB
SUMMER INSIDE DESIGN CRITERIA:	73° DB ± 2°F 50% RH ± 7.5%
WINTER INSIDE DESIGN CRITERIA:	72°F DB ± 2°F 50% RH ± 10%
EXHAUST AIR VENTILATION RATE:	TOILET ROOM 50 CFM/WC

CODE COMPLIANCE

1. TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2010 FLORIDA BUILDING CODE, 2010 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.

HVAC PIPING SYMBOL LEGEND



-CHILLED WATER SUPPLY
-CHILLED WATER RETURN
-CONDENSATE
-CONDENSATE RETURN
-PUMPED CONDENSATE
-HOT WATER RETURN
-HOT WATER SUPPLY
-FLOW DIRECTION
-GATE VALVE
-BALL VALVE
-CALIBRATING BALANCING VALVE
-BUTTERFLY VALVE
-GAS COCK
-UNION
-STRAINER
-CONTROL VALVE
-SOLENOID VALVE
-PSI REG.
-CHECK VALVE
-FLOW SWITCH
-FLEX CONNECTION
-O.S.&Y. GATE VALVE
-THREE-WAY CONTROL VALVE
-THERMOMETER
- P-TRAP
-TWO-WAY CHECK VALVE
-MANUAL VENT
-PRESSURE GAUGE
-ELBOW, TURNED DOWN
-ELBOW, TURNED UP
-TEE, OUTLET DOWN
-TEE, OUTLET UP

VENTILATION

1. U.O.N THE TENANT UNIT IN THIS BUILDING ARE VENTILATED IN ACCORDANCE WITH FBC_MECHANICAL-2010_SECTION-402.
2. UNIT TYPE ONE HAS BEEN PROVIDED WITH MECHANICALLY CONDITIONED OUTSIDE AIR AT A (0.35 ACH) BASED THE OCCUPIED AREA. NATURAL VENTILATION WAS NOT USED FOR THIS UNIT BECAUSE OF ITS PROXIMITY TO THE GENERATOR, FIRE PUMP AND KITCHEN VENTILATION SYSTEMS.
3. ALL OCCUPIED SPACES ARE PROVIDED WITH OPERABLE WINDOWS WITH A FREE AREA OF AT LEAST 4% OF THE TOTAL FLOOR AREA. REFER TO ARCHITECT'S PLANS FOR WINDOW SCHEDULE AND DETAILS.
4. REFER TO THE CHART BELOW FOR THE MINIMUM VENTILATION REQUIREMENTS FOR THE COMMON AND PUBLIC AREAS. THESE VENTILATION REQUIREMENTS ARE BEING MET BY RTU-1.

MINIMUM OUTDOOR VENTILATION AIR REQUIREMENTS
Per ASHRAE 62.1 - 2007

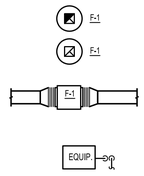
Vbz = RpPz + RaAz
Where:
Vbz = Breathing Zone Outdoor Airflow
Rp = OA/Person From Table 6-1
Pz = Zone Population Actual or
*Zone Population / 1000 sq. ft. - Default Table 6-1
Ra = OA Flow rate / Unit Area
Az = Zone Floor Area

RTU-1

Space Name	Az	Category	Rp	Pz	Ra	Vbz
1st Floor Lobby	1,245	Main entry lobbies	5	12.5	0.06	137.0
Basement Storage	7,135	Storage rooms	0	0.0	0.12	856.2
Corridors flrs 2-5	2,392	Corridors	0	0.0	0.06	143.5
Elevator Lobby flrs 2-5	480	Corridors	0	0.0	0.06	28.8
Corridors flrs 6-9	1,300	Corridors	0	0.0	0.06	78.0
Elevator Lobby flrs 2-5	480	Corridors	0	0.0	0.06	28.8
10th Floor Fitness	500	Health club/ weight rooms	20	2.0	0.06	70.0
Total	13,532					1340

System Air Balance	
Outdoor Air(Cfm)	1340
Exhaust Air(Cfm)	0
Exfil(+) Or Infil(-) Or Net(O)	1,340
General Exhaust Air(Cfm)	0
Zone Area	13,532
Zone Press Rel - Cfm/Sf	0.10

EQUIPMENT



EXHAUST DUCT UP TO FAN ABOVE
EXHAUST FAN ON ROOF AND DUCT DROP TO BELOW
INLINE CENTRIFUGAL FAN
P-TRAP

HVAC EQUIPMENT TAGS

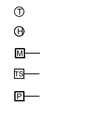
AHU-1	AIR HANDLING UNIT
F-1	FAN
RTU-1	ROOF TOP UNIT
CU-1	CONDENSING UNIT
VAV	VARIABLE VOLUME BOX
FPU-1	FAN POWERED VARIABLE VOLUME BOX
EDH-1	ELECTRIC DUCT HEATER
P-1	PUMP

GENERAL



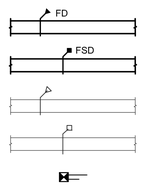
REVISION REFERENCE
DETAIL REFERENCE: TOP - DETAIL#; BOTTOM - DRAWING# SHOWN ON
NEUTRAL RELATIVE PRESSURE
POSITIVE RELATIVE PRESSURE
NEGATIVE RELATIVE PRESSURE
SHEET NOTE CALLOUT
SHEET NOTE CALLOUT
SHEET NOTE CALLOUT

CONTROLS



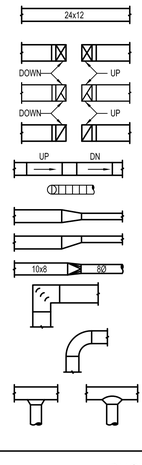
THERMOSTAT/TEMPERATURE SENSOR
HUMIDISTAT/HUMIDITY SENSOR
MOTORIZED CONTROL DAMPER
TEMPERATURE SENSOR
PRESSURE SENSOR

LIFE SAFETY



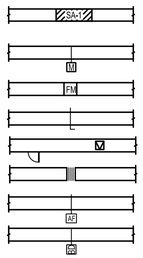
FIRE DAMPER & ACCESS DOOR
COMBO FIRE / SMOKE DAMPER & ACCESS DOOR
EXISTING FIRE DAMPER TO REMAIN UNLESS OTHERWISE NOTED (WITH ACCESS PANEL)
EXISTING FIRE & SMOKE DAMPER TO REMAIN UNLESS OTHERWISE NOTED (WITH ACCESS PANEL)
DUCT MOUNTED SMOKE DETECTOR

DUCTWORK



NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN
PROVIDE EXTERNALLY INSULATED SHEETMETAL DUCT
DUCT ELBOW, POSITIVE PRESSURE (SUPPLY)
DUCT ELBOW, NEGATIVE PRESSURE (EXHAUST)
DUCT ELBOW, NEGATIVE PRESSURE (RETURN)
CHANGE OF ELEVATION
FLEXIBLE DUCT
TRANSITION, CONCENTRIC
TRANSITION, ECCENTRIC
TRANSITION, SQUARE TO ROUND
SQUARE THROAT ELBOW W/TURNING VANES
RADIUS ELBOW
RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF

DUCT ACCESORIES



SOUND ATTENUATOR
MOTOR OPERATED CONTROL DAMPER (MOD)
AIR FLOW MEASURING STATION
MANUAL BALANCING DAMPER
ACCESS DOORS, VERTICAL OR HORIZONTAL
FLEXIBLE CONNECTION
CFM SENSOR
BACKDRAFT DAMPER

GENERAL NOTES

1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
4. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE S/A RECTANGULAR DUCT ELBOWS.
5. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
6. COORDINATE DIFFUSER, GRILLE, AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
7. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH DOOR SWINGS, FURNITURE, AND OTHER EQUIPMENT.
8. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
9. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
10. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
11. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
12. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
13. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING, OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
14. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOW, FITTINGS, ETC. TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES UPSTREAM OF SPLIT.
15. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS, AND OTHER AIR DISTRIBUTION DEVICES.
16. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN AND AIR HANDLING UNIT.
17. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
18. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC. AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS TO ALLOW FOR INSPECTIONS OF RATED WALLS.
19. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. LOWEST POINT OF EACH OUTSIDE AIR INTAKE ON ROOF SHALL BE A MINIMUM OF 24" ABOVE ROOF.
20. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
21. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
22. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER PIPING.
23. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK AND DIFFICULTIES THAT ATTEND ITS EXECUTION. ALL DISCREPANCIES OR POTENTIAL PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING.
24. TRANSFER DUCTS SIZES SHALL BE EQUAL TO 1.5 x DIAMETER OF THE SUPPLY DUCT SERVING THE ROOM, WHERE THE RETURN AIR PATH IS VIA A TRANSFER DUCT, A 1" UNDERCUT MUST BE PROVIDED AT THE DOOR.

RETURN AIR PLENUMS

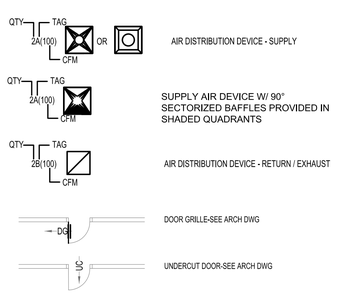
1. THE BOUNDARIES OF THE RETURN AIR PLENUM CONSIST OF THE PORTION OF THE WALL ABOVE THE CEILING AT THE PERIMETER OF THE BUILDING, THE CEILING, AND THE STRUCTURE (FLOOR OR ROOF) ABOVE THE CEILING.
2. VERIFY THE INSTALLATION OF ADEQUATE INSULATION ON ALL SIDES OF RETURN AIR PLENUM ADJACENT TO UNCONDITIONED SPACES.
3. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON COMBUSTIBLE AND U.L. ACCEPTED FOR USE IN A RETURN AIR PLENUM SPACE. ALL WIRING SHALL BE SPECIFICALLY RATED FOR USE IN A PLENUM OR SHALL BE ENCLOSED IN METAL CONDUIT.
4. INSULATION, FITTINGS, COVERS, FINISHES AND ANY OTHER MATERIALS IN THE RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
5. OPENINGS IN WALLS ABOVE CEILINGS FOR RETURN AIR SHALL BE PROVIDED TO ALLOW UNRESTRICTED AIR FLOW BACK TO A/C UNIT(S). MAINTAIN FIRE RATINGS AND SOUND BARRIERS AS DIRECTED BY ARCHITECTURAL DRAWINGS.

HVAC DUCTWORK SCHEDULE

TYPE/LOCATION	SUPPLY AIR & CONDITIONED OA	RETURN AIR	EXHAUST AIR	(CONDITIONED) OUTSIDE AIR
ABOVE CEILING	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL SINGLE WALL NON-INSULATED
EXPOSED (MECH. ROOM)	SHEET METAL EXT. FIBERBOARD	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL SINGLE WALL NON-INSULATED
EXPOSED (OCCUPIED AREAS)	ROUND OR OVAL SHEET METAL DOUBLE WALL	ROUND OR OVAL SHEET METAL SINGLE WALL	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL SINGLE WALL NON-INSULATED

NOTES:
1. EXTERIOR WRAPPED DUCTS LOCATED IN OUTDOOR AREAS SHALL HAVE TWO COATS OF FABRIC AND MASTIC.
2. INSULATED DUCTS LOCATED IN OUTDOOR AREAS SHALL HAVE \" THICKER INSULATION THAN INDOOR APPLICATIONS.
3. FOR GENERAL DUCTWORK CONSTRUCTION ONLY. SEE PLANS FOR INDIVIDUAL CASES.
4. SUPPLY AIR DUCT (WITH-IN 15') AND RETURN AIR DUCT (WITH-IN 10') FROM AHU HANDLING EQUIPMENT SHALL BE INTERNALLY LINED.

AIR DISTRIBUTION



AIR DISTRIBUTION DEVICE - SUPPLY
SUPPLY AIR DEVICE W/ 90° SECTORIZED BAFFLES PROVIDED IN SHADED QUADRANTS
AIR DISTRIBUTION DEVICE - RETURN / EXHAUST
DOOR GRILLE-SEE ARCH DWG
UNDERCUT DOOR-SEE ARCH DWG

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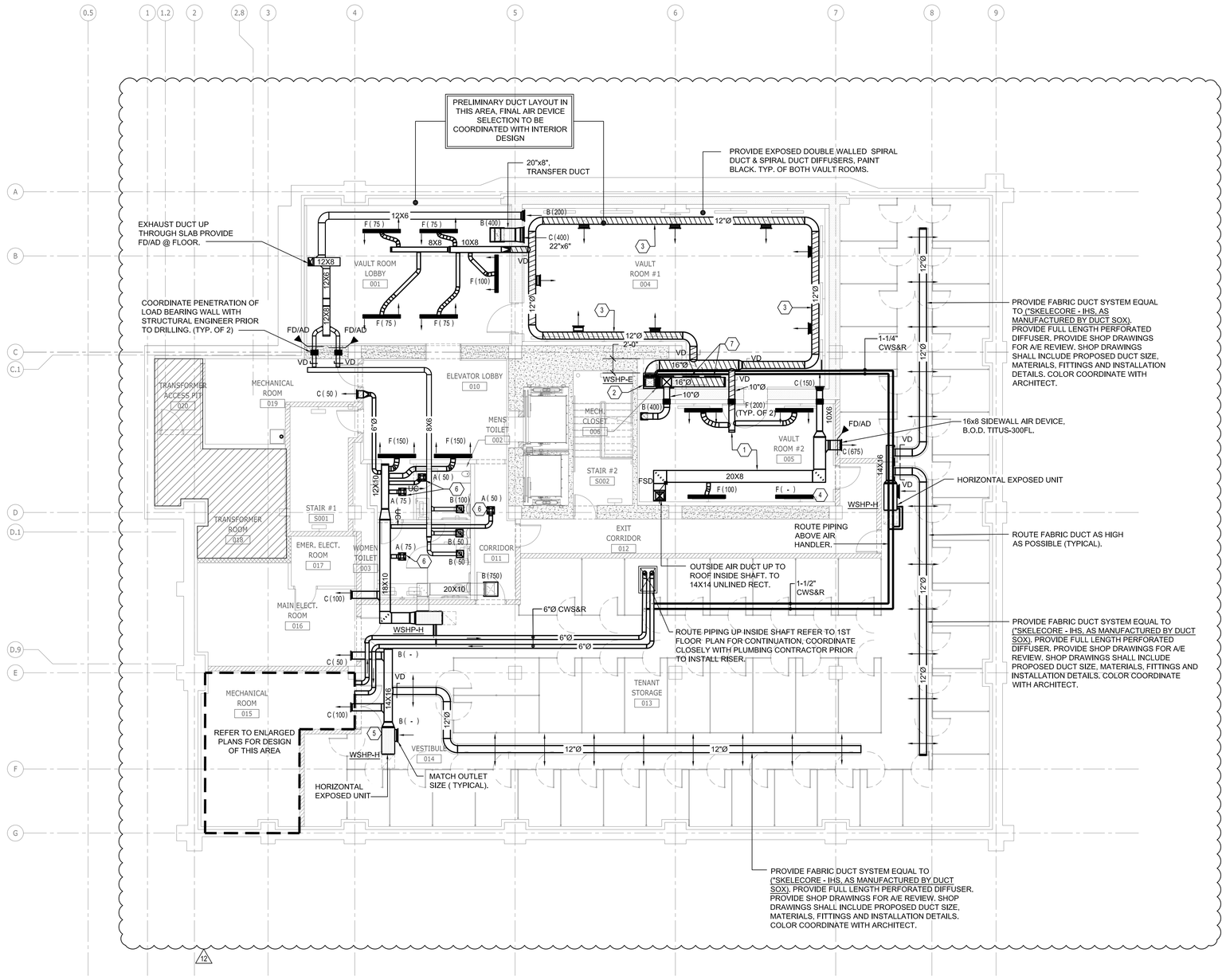
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Legend Symbols And Notes

PROJECT NO.: 13270.99

M001



GENERAL NOTES

1. REFER TO SHEET M001 FOR GENERAL NOTES.

KEYED NOTES

1. DUCTWORK LOCATED IN "VAULT ROOM - 005" SHALL BE INSTALLED ABOVE CEILING. COORDINATE WITH FINAL, ARCHITECTURAL CEILING PLANS FOR AIR DEVICE LAYOUT AND SELECTION.
2. PROVIDE DYNAMIC AIR CLEANING SYSTEM FILTER BANK SIZED FOR RETURN AIR INLET.
3. PROVIDE DOUBLE WALLED SUPPLY DUCT AND RETURN AIR PLENUM WITH RETURN GRILLE ON TOP AND SIDE ACCESS DOOR AS RECOMMENDED BY THE MANUFACTURER. DOUBLE WALLED DUCT SHALL HAVE MYLAR FILM BETWEEN INSULATION AND AIR STREAM. DUCT AND UNIT SHALL BE PAINTED TO MATCH SURROUNDING, COLOR COORDINATE WITH ARCHITECT.
4. INACTIVE LINEAR AIR DEVICE CAP, DO NOT PROVIDE PLENUM. CAP DUCT CONNECTION.
5. COORDINATE ELEVATION OF AIRHANDLER & DUCTWORK WITH DOMESTIC WATER PIPING & NATURAL GAS PIPING. SEE PLUMBING DRAWINGS FOR PIPE ROUTING.
6. PROVIDE 12"X12" MODULE WITH 6"Ø INLET CONNECTION, SEE MECHANICAL SCHEDULES FOR MORE INFORMATION.
7. PROVIDE SURFACE MOUNTED SPIRAL DUCT GRILLES, B.O.D.-TITUS-S350FL, 20"x12", BALANCE TO (500 CFM) EACH. COLOR COORDINATE WITH ARCHITECT, PROVIDE BLADES IN LONG DIRECTION.
8. PROVIDE SURFACE MOUNTED SPIRAL DUCT DIFFUSER, B.O.D.-TITUS-S300FL, 16"x6", BALANCE TO (105 CFM) EACH.COLOR COORDINATE WITH ARCHITECT, PROVIDE BLADES IN LONG DIRECTION.

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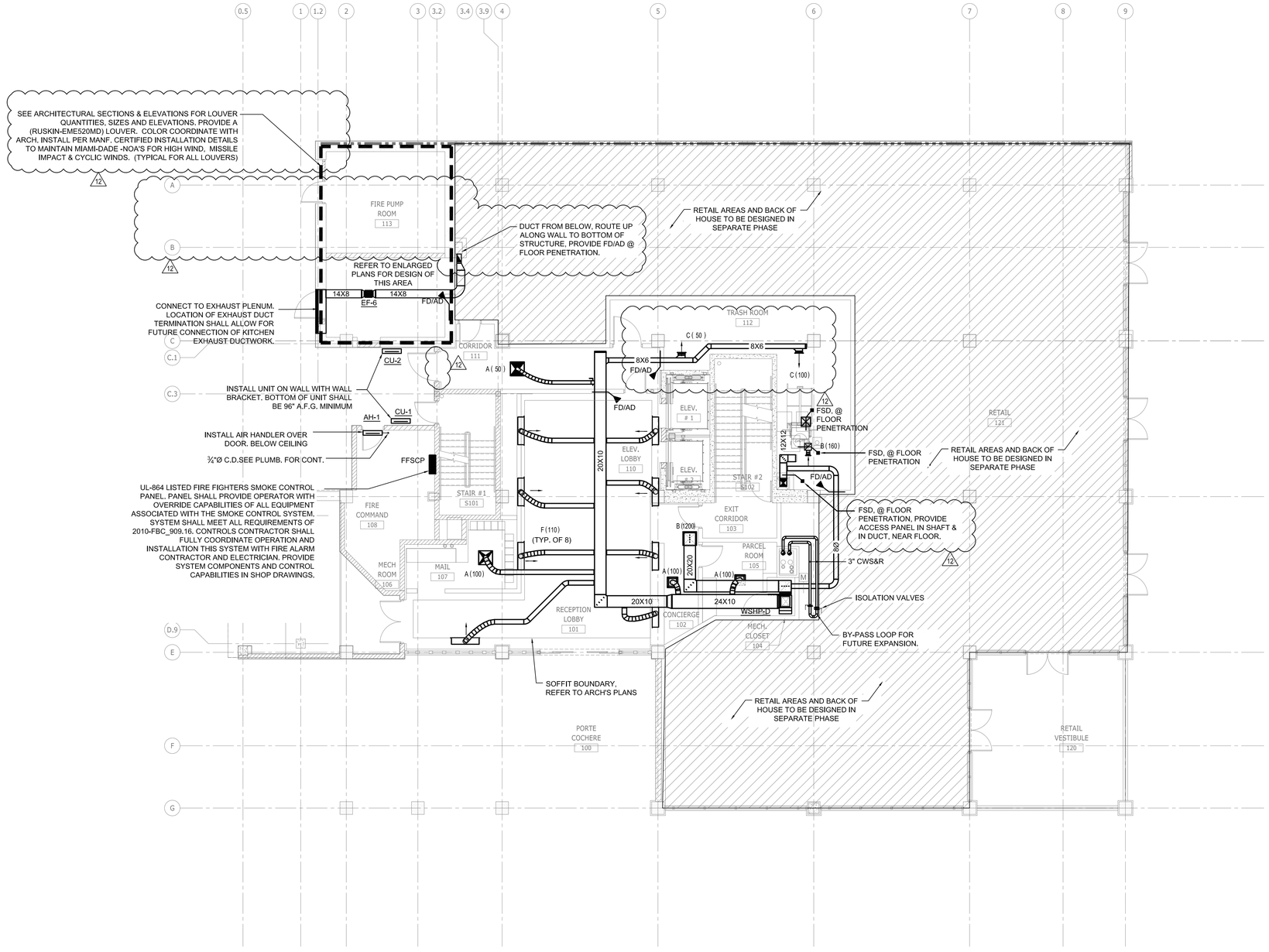
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BASEMENT FLOOR PLAN - MECHANICAL

PROJECT NO.: 13270.99

M101

M101 BASEMENT FLOOR PLAN - MECHANICAL
1/8" = 1'-0"



M102 | **FIRST FLOOR PLAN - MECHANICAL**

1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET M001 FOR GENERAL NOTES

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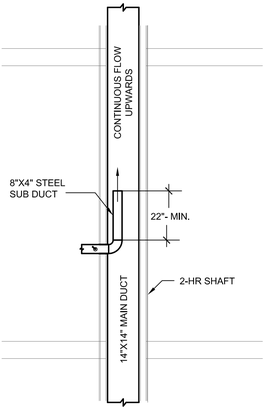
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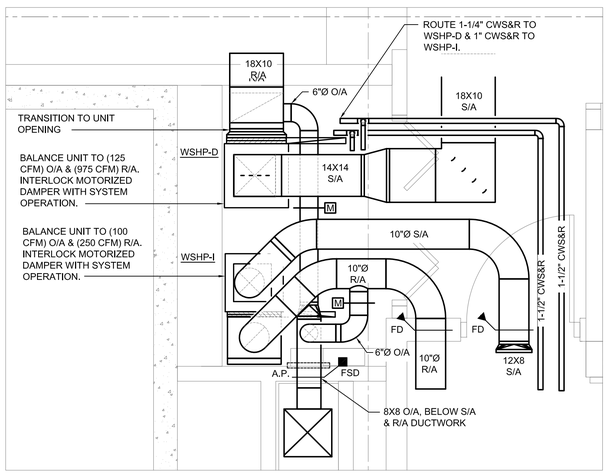
FIRST FLOOR PLAN - MECHANICAL

PROJECT NO.: 13270.99

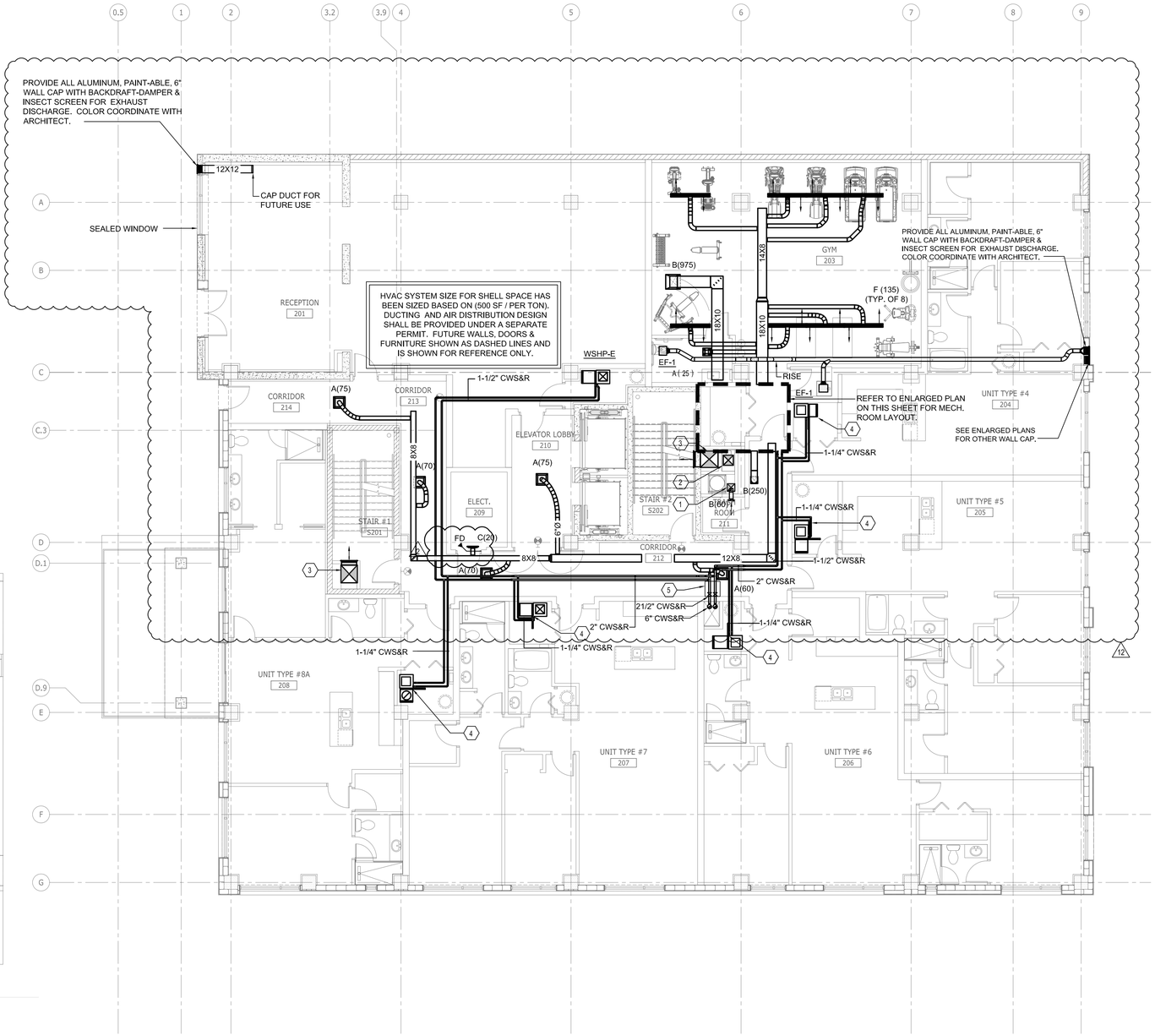
M102



2 **SUB DUCT DETAIL FOR EXHAUST SHAFT**
N.T.S.



3 **ENLARGED MECHANICAL CLOSET AT GYM**
1/2" = 1'-0"



GENERAL NOTES

1. REFER TO ENLARGED UNITS PLANS FOR TENANT UNIT HVAC DESIGN.

KEYED NOTES

1. PROVIDE PRE-MANUFACTERED 22" HIGH, STEEL SUB DUCT EQUAL TO ENERVEX-SDR. INSTALL IN MAIN EXHAUST DUCT LOCATED IN SHAFT. ROUTE14"X14" STEEL EXHAUST DUCT INSIDE SHAFT UP TO EF-3 LOCATED ON ROOF. REFER TO DETAIL ON THIS SHEET.
2. 20"X16" OA DUCT INSIDE SHAFT.
3. REFER TO STAIRWELL PRESSURIZATION SYSTEM DETAIL ON SHEET M110 FOR DUCT SIZES, AIR DEVICE SIZES, LOCATIONS AND SPECIFICATION.
4. CONNECT TO WATER HEAT PUMP UNIT AT THIS LOCATION. REFER TO ENLARGED PLANS FOR UNIT / COIL ORIENTATION. PROVIDE ISOLATION VALVES AT ENTRANCE OF CLOSET. ALL PIPING SHALL BE SCH. 40 STEEL. TRANSITION TO COIL CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION REFER TO UNIT SCHEDULES FOR MORE INFORMATION.
5. CONDENSER WATER MAINS AND BRANCHES LOCATED IN AND EXITING THIS SHAFT NEED TO BE CLOSELY COORDINATED WITH THE NAT GAS, PLUMBING AND ROOF DRAINS. PROVIDE MAIN SHUT-OFF VALVE THAT IS ACCESSIBLE FROM CEILING ACCESS PANEL, INSTALL PIPING STACKED VERTICALLY WHERE EXITING SHAFT TO PROVIDE ROOM FOR DOMESTIC WATER AND NAT. GAS SHUTOFF VALVES. COORDINATE CLOSELY WITH OTHER TRADES TO ENSURE ALL UTILITY SHUT-OFF VALVES ARE ACCESSIBLE FROM THIS LOCATION.

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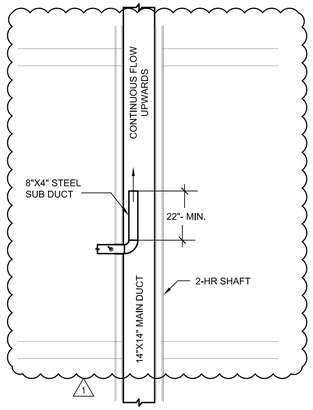
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SECOND FLOOR PLAN - MECHANICAL

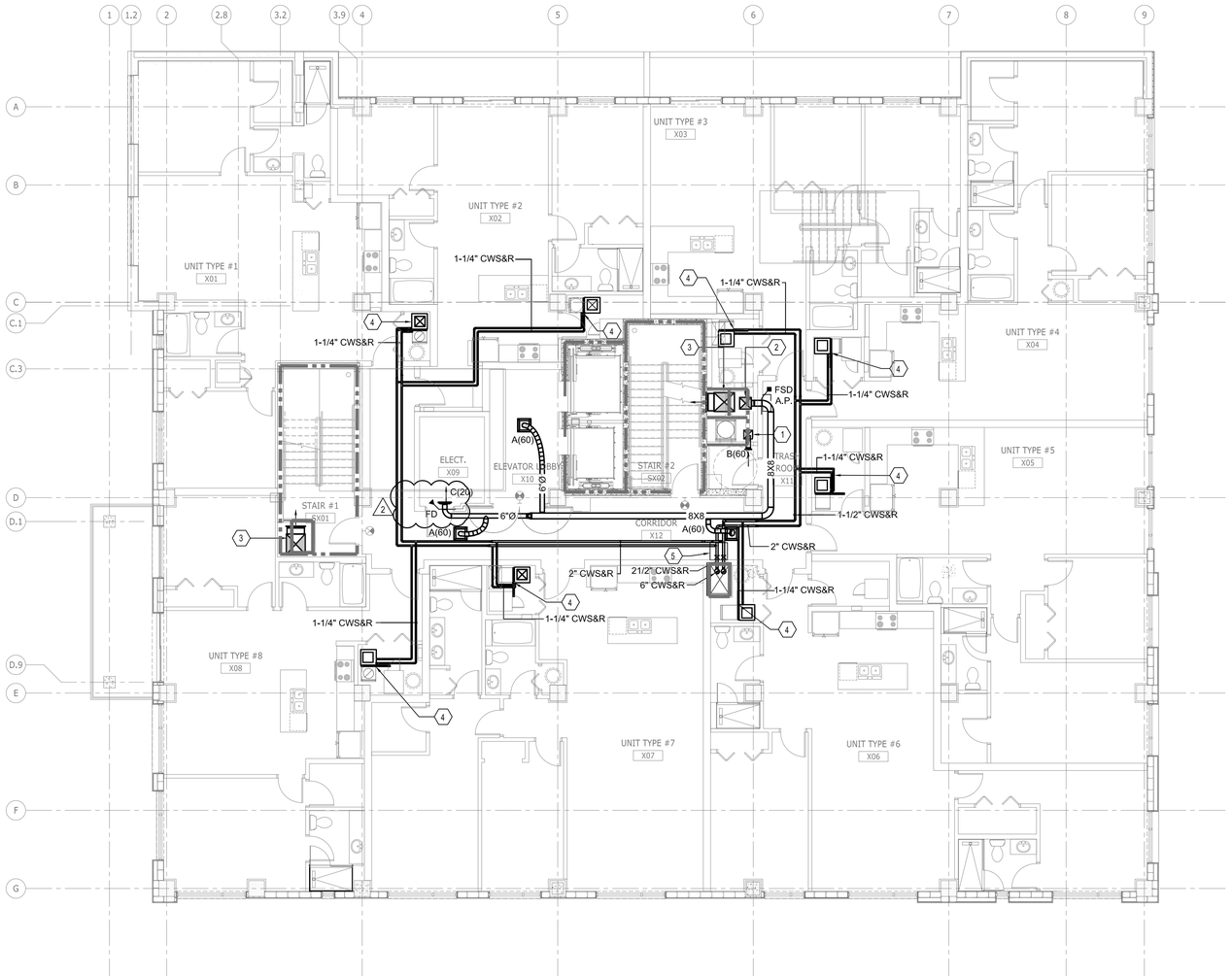
PROJECT NO.: 13270.99

M103

M103 | **SECOND FLOOR PLAN - MECHANICAL**
1/8" = 1'-0"



2 SUB DUCT DETAIL FOR EXHAUST SHAFT
N.T.S.



GENERAL NOTES

1. REFER TO ENLARGED UNITS PLANS FOR TENANT UNIT HVAC DESIGN.

KEYED NOTES

1. PROVIDE PRE-MANUFACTERED 22" HIGH, STEEL SUB DUCT EQUAL TO ENERVEX-SDR, INSTALL IN MAIN EXHAUST DUCT LOCATED IN SHAFT. ROUTE14"X14" STEEL EXHAUST DUCT INSIDE SHAFT UP TO EF-3 LOCATED ON ROOF. REFER TO DETAIL ON THIS SHEET. (1)
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4. CONNECT TO WATER HEAT PUMP UNIT AT THIS LOCATION. REFER TO ENLARGED PLANS FOR UNIT / COIL ORIENTATION. PROVIDE ISOLATION VALVES AT ENTRANCE OF CLOSET. DO NOT INSTALL VALVES IN CORRIDOR. ALL PIPING SHALL BE SCH. 40 STEEL. TRANSITION TO COIL CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION REFER TO UNIT SCHEDULES FOR MORE INFORMATION.
5. CONDENSER WATER MAINS AND BRANCHES LOCATED IN AND EXITING THIS SHAFT NEED TO BE CLOSELY COORDINATED WITH THE NAT GAS, PLUMBING AND ROOF DRAINS. PROVIDE MAIN SHUT-OFF VALVE THAT IS ACCESSIBLE FROM CEILING ACCESS PANEL, INSTALL PIPING STACKED VERTICALLY WHERE EXITING SHAFT TO PROVIDE ROOM FOR DOMESTIC WATER AND NAT. GAS SHUTOFF VALVES. COORDINATE CLOSELY WITH OTHER TRADES TO ENSURE ALL UTILITY SHUT-OFF VALVES ARE ACCESSIBLE FROM THIS LOCATION.

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

L. Roland Young Jr., PE
PE#9268

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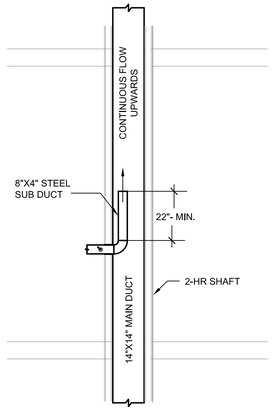
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400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

THIRD - FOURTH FLOOR PLAN - MECHANICAL

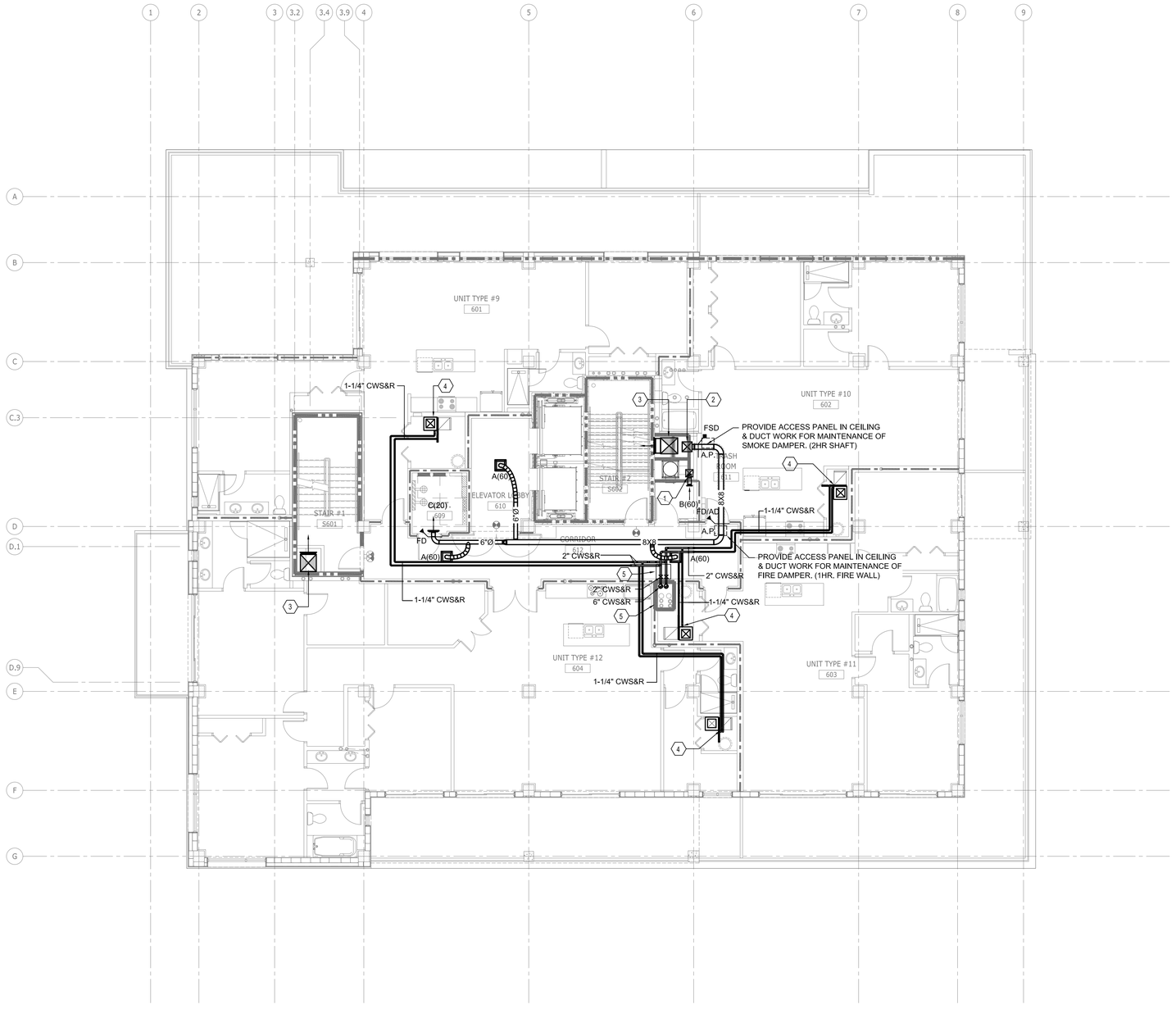
PROJECT NO.: 13270.99

M104

M104 | **THIRD - FOURTH FLOOR PLAN - MECHANICAL**
1/8" = 1'-0"



2 SUB DUCT DETAIL FOR EXHAUST SHAFT
N.T.S.



GENERAL NOTES

1. REFER TO ENLARGED UNITS PLANS FOR TENANT UNIT HVAC DESIGN.

KEYED NOTES

1. PROVIDE PRE-MANUFACTERED 22" HIGH, STEEL SUB DUCT EQUAL TO ENERVEX-SDR. INSTALL IN MAIN EXHAUST DUCT LOCATED IN SHAFT. ROUTE14"X14" STEEL EXHAUST DUCT INSIDE SHAFT UP TO EF-3 LOCATED ON ROOF. REFER TO DETAIL ON THIS SHEET.
2. 20"X16" OA DUCT INSIDE SHAFT.
3. REFER TO STAIRWELL PRESSURIZATION SYSTEM DETAIL ON SHEET M110 FOR DUCT SIZES, AIR DEVICE SIZES, LOCATIONS AND SPECIFICATION.
4. CONNECT TO WATER HEAT PUMP UNIT AT THIS LOCATION. REFER TO ENLARGED PLANS FOR UNIT / COIL ORIENTATION. PROVIDE ISOLATION VALVES AT ENTRANCE OF CLOSET, DO NOT INSTALL VALVES IN CORRIDOR. ALL PIPING SHALL BE SCH, 40 STEEL. TRANSITION TO COIL CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION REFER TO UNIT SCHEDULES FOR MORE INFORMATION.
5. CONDENSER WATER MAINS AND BRANCHES LOCATED IN AND EXITING THIS SHAFT NEED TO BE CLOSELY COORDINATED WITH THE NAT GAS, PLUMBING AND ROOF DRAINS. PROVIDE MAIN SHUT-OFF VALVE THAT IS ACCESSIBLE FROM CEILING ACCESS PANEL. INSTALL PIPING STACKED VERTICALLY WHERE EXITING SHAFT TO PROVIDE ROOM FOR DOMESTIC WATER AND NAT. GAS SHUTOFF VALVES. COORDINATE CLOSELY WITH OTHER TRADES TO ENSURE ALL UTILITY SHUT-OFF VALVES ARE ACCESSIBLE FROM THIS LOCATION.

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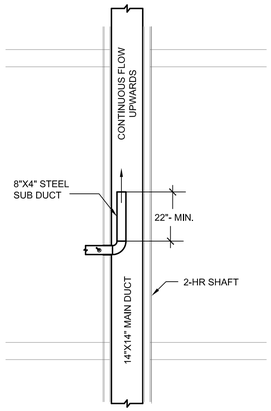
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SIXTH FLOOR PLAN - MECHANICAL

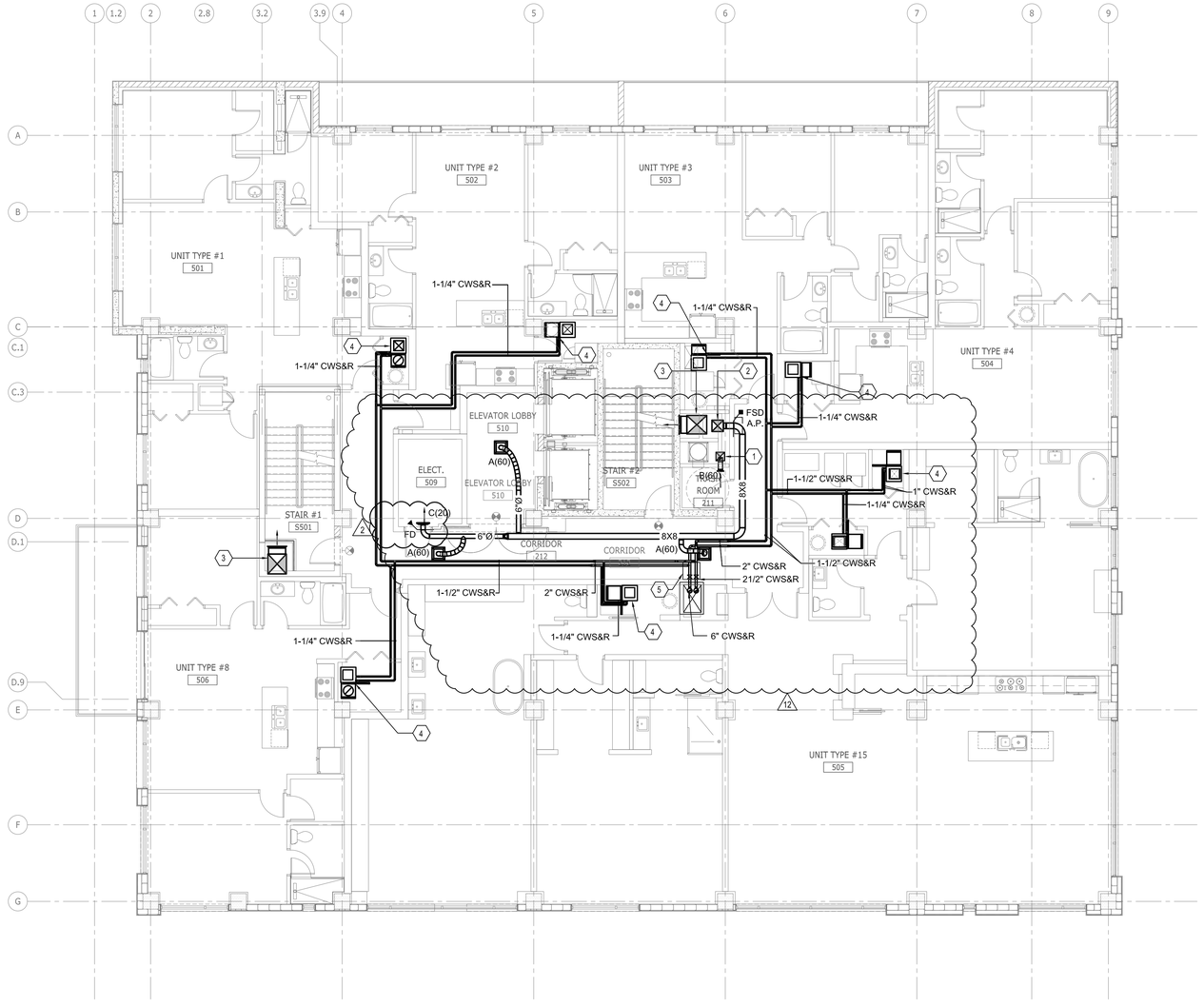
PROJECT NO.: 13270.99

M105

M105 | **SIXTH FLOOR PLAN - MECHANICAL**
1/8" = 1'-0"



2 SUB DUCT DETAIL FOR EXHAUST SHAFT
N.T.S.



NEW SHEET CREATED FOR REV #12 (12)

GENERAL NOTES

1. REFER TO ENLARGED UNITS PLANS FOR TENANT UNIT HVAC DESIGN.

KEYED NOTES

1. PROVIDE PRE-MANUFACTERED 22" HIGH, STEEL SUB DUCT EQUAL TO ENERVEX-SDR. INSTALL IN MAIN EXHAUST DUCT LOCATED IN SHAFT. ROUTE14"X14" STEEL EXHAUST DUCT INSIDE SHAFT UP TO EF-3 LOCATED ON ROOF. REFER TO DETAIL ON THIS SHEET.
2. 20"X16" OA DUCT INSIDE SHAFT.
3. REFER TO STAIRWELL PRESSURIZATION SYSTEM DETAIL ON SHEET M110 FOR DUCT SIZES, AIR DEVICE SIZES, LOCATIONS AND SPECIFICATION.
4. CONNECT TO WATER HEAT PUMP UNIT AT THIS LOCATION. REFER TO ENLARGED PLANS FOR UNIT / COIL ORIENTATION. PROVIDE ISOLATION VALVES AT ENTRANCE OF CLOSET, DO NOT INSTALL VALVES IN CORRIDOR. ALL PIPING SHALL BE SCH. 40 STEEL. TRANSITION TO COIL CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION REFER TO UNIT SCHEDULES FOR MORE INFORMATION.
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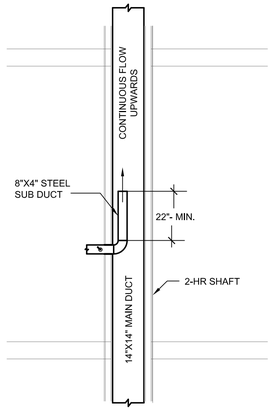
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FIFTH FLOOR PLAN - MECHANICAL (12)

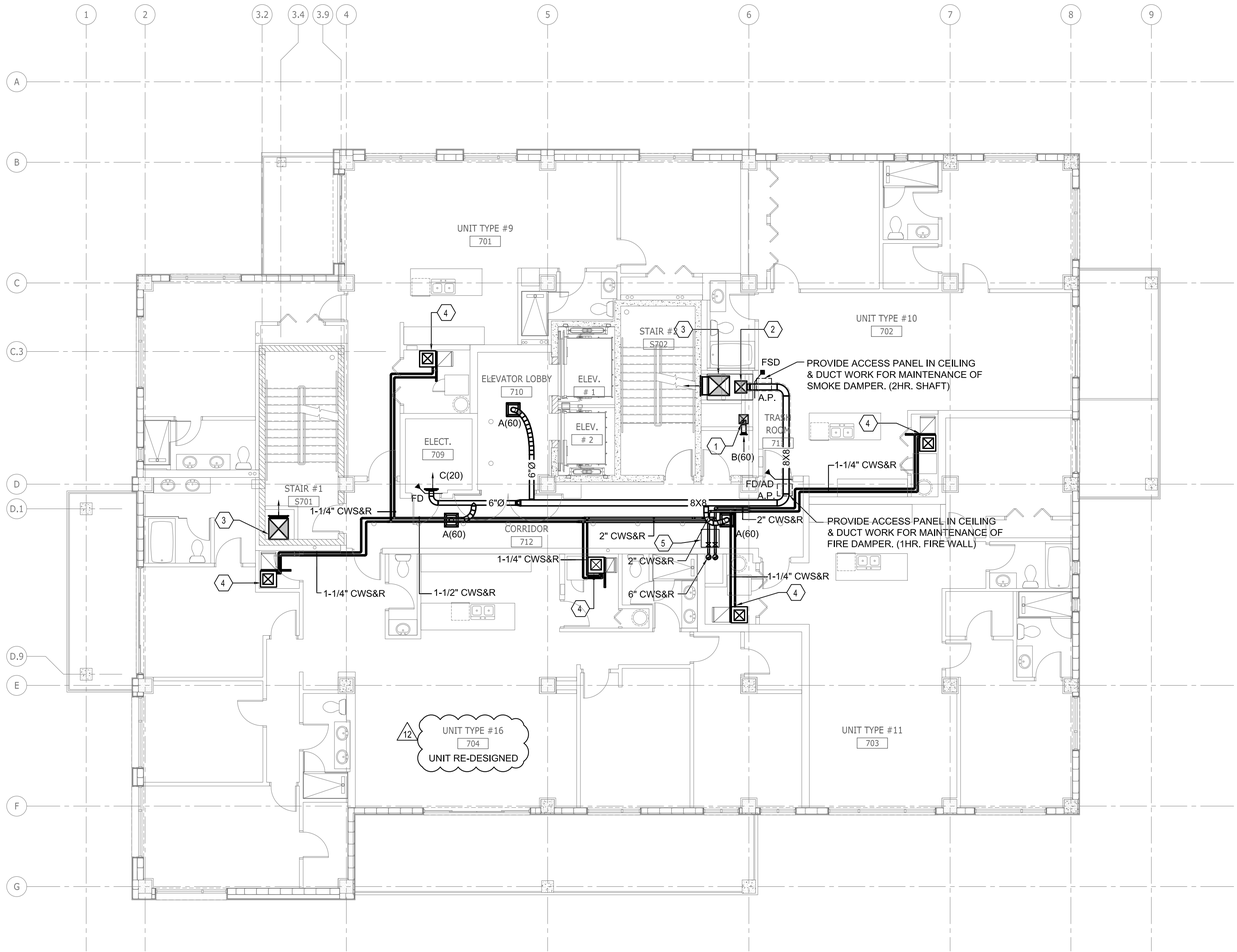
PROJECT NO.: 13270.99

M105A

M105A | **FIFTH FLOOR PLAN - MECHANICAL**
1/8" = 1'-0"



2 SUB DUCT DETAIL FOR EXHAUST SHAFT
N.T.S.



GENERAL NOTES

1. REFER TO ENLARGED UNITS PLANS FOR TENANT UNIT HVAC DESIGN.

KEYED NOTES

1. PROVIDE PRE-MANUFACTERED 22" HIGH, STEEL SUB DUCT EQUAL TO ENERVEX-SDR. INSTALL IN MAIN EXHAUST DUCT LOCATED IN SHAFT. ROUTE14"X14" STEEL EXHAUST DUCT INSIDE SHAFT UP TO EF-3 LOCATED ON ROOF. REFER TO DETAIL ON THIS SHEET.
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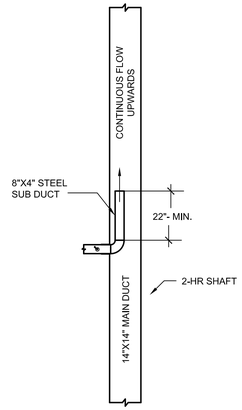
THE SKYVIEW CONDOMINIUMS
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CLEARWATER, FLORIDA 33755

SEVENTH FLOOR PLAN - MECHANICAL

PROJECT NO.: 13270.99

M106 12

M106 | **SEVENTH FLOOR PLAN - MECHANICAL** 12
1/8" = 1'-0"

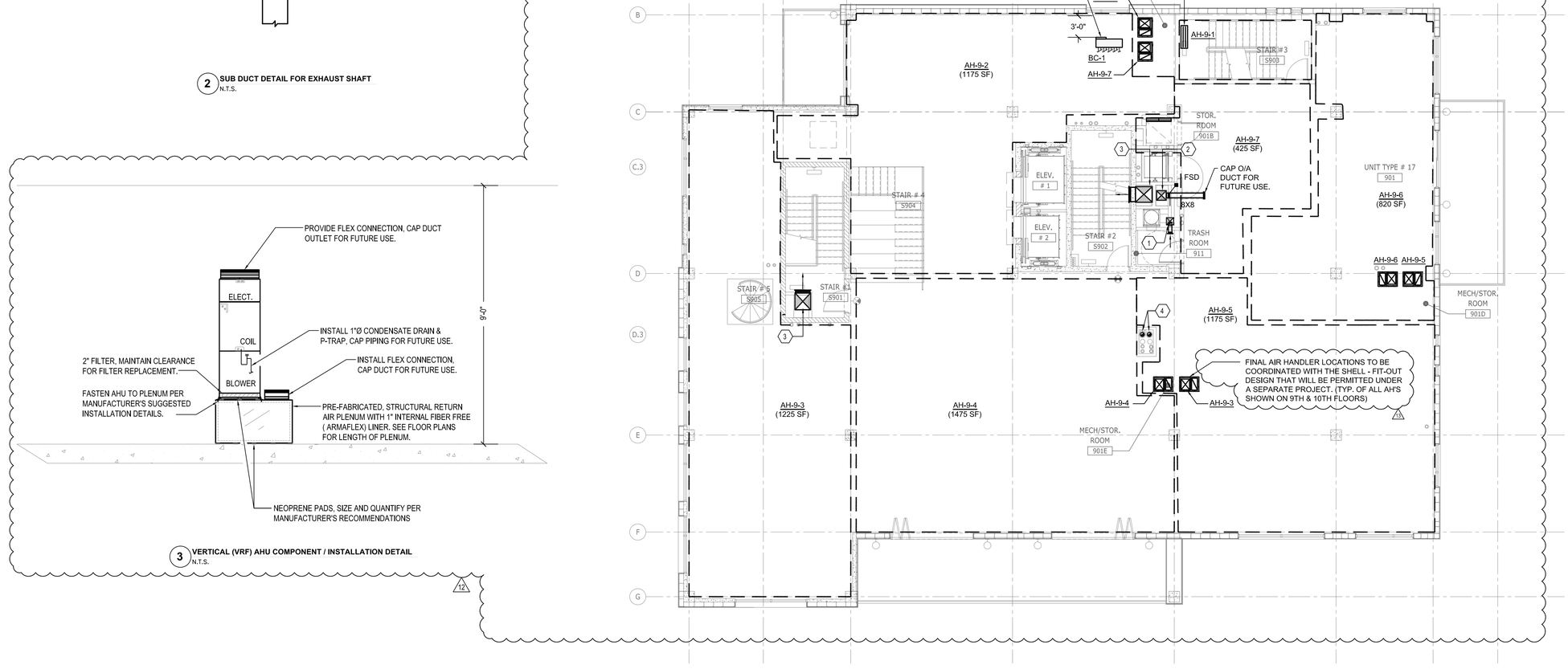


2 SUB DUCT DETAIL FOR EXHAUST SHAFT
N.T.S.

VRF SYSTEM - SCOPE & WARRANTY NOTES

1. A VARIABLE REFRIGERANT FLOW, (VRF) SYSTEM HAS BEEN DESIGNED FOR THE PENTHOUSE "SHELL SPACE" WHICH INCLUDES, OR PARTIALLY INCLUDES THE FOLLOWING FLOORS: 2ND, 8TH, 9TH, 10TH, & ROOF. DUE TO THE LACK OF PROPOSED DATA FOR PENTHOUSE "SHELL SPACE", SOME AIR-HANDLERS HAVE BEEN SELECTED BASED ON THE HEAT GAINS CALCULATED SIMILAR SPACES WITH MATCHING EXPOSURES.
2. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT, PIPING & CONTROLS ASSOCIATED WITH THE VRF SYSTEM TO BE INSTALLED WITH-IN THE "SHELL SPACE", THE "TENANT FIT-OUT" CONTRACT DOCUMENTS WILL BE BID & PERMITTED SEPARATELY. THE "TENANT FIT-OUT" SCOPE WILL INCLUDE DUCTING TO AND FROM EACH AIR-HANDLER, INSTALLATION OF AIR DISTRIBUTION AND OTHER VENTILATION ITEMS, SYSTEM START-UP & COMMISSIONING WILL BE CONDUCTED FOLLOWING THE COMPLETION OF THE "TENANT FIT-OUT" SCOPE. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ENGAGEMENT THROUGH-OUT BOTH PHASES OF THIS PROJECT UNTIL THE SYSTEM START-UP HAS BEEN COMPLETED,THE SYSTEM COMMISSIONING HAS BEEN APPROVED BY THE MANUFACTURER AND THE (10) YEAR FACTORY WARRANTY HAS BEGUN. ADDITIONAL "NON-FACTORY" WARRANTIES SHALL BE PROVIDED AS MANDATED IN OTHER PROJECT REQUIREMENTS.
3. PRIOR TO PROCUREMENT OF THE VRF SYSTEM AS SPECIFIED IN THESE CONTRACT DOCUMENTS, THIS MECHANICAL CONTRACTOR SHALL BE RECOGNIZED AS A CERTIFIED INSTALLER BY THE VRF - EQUIPMENT MANUFACTURER (MITSUBISHI) AS REQUIRED TO SECURE A TEN YEAR LIMITED WARRANTY. SEE MECHANICAL SPECIFICATIONS FOR DETAILS AND ADDITIONAL WARRANTY REQUIREMENTS. THE MANUFACTURER'S TRAINING CERTIFICATION SHALL BE INCLUDED FOR A/E REVIEW ALONG WITH THE EQUIPMENT SHOP DRAWING SUBMITTAL, PRODUCT TRAINING SHALL BE PROVIDED FOR THE ACTUAL INSTALLING PERSONNEL TO ENSURE PROPER SYSTEM INSTALLATION.

12



3 VERTICAL (VRF) AHU COMPONENT / INSTALLATION DETAIL
N.T.S.

12

GENERAL NOTES

1. REFER TO ENLARGED UNITS PLANS FOR TENANT UNIT HVAC DESIGN.
2. REFER TO SHEET M001 FOR GENERAL NOTES

KEYED NOTES

1. PROVIDE PRE-MANUFACTERED 22" HIGH, STEEL SUB DUCT EQUAL TO ENERVEX-SDR. INSTALL IN MAIN EXHAUST DUCT LOCATED IN SHAFT. ROUTE14"X14" STEEL EXHAUST DUCT INSIDE SHAFT UP TO EF-3 LOCATED ON ROOF. REFER TO DETAIL ON THIS SHEET.
2. 20"X16" OA DUCT INSIDE SHAFT.
3. REFER TO STAIRWELL PRESSURIZATION SYSTEM DETAIL ON SHEET M110 FOR DUCT SIZES, AIR DEVICE SIZES, LOCATIONS AND SPECIFICATION.
4. 6"CWS&R INSIDE SHAFT PROVIDE 2" FOAMGLAS INSULATION AND WRAP WITH MASS LOADED BLANKET FOR ACOUSTIC MITIGATION.

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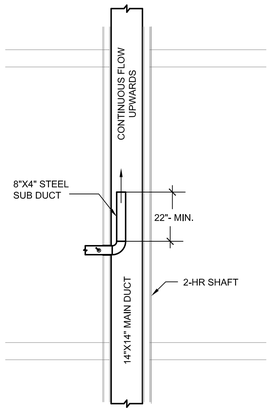
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NINTH FLOOR PLAN - MECHANICAL

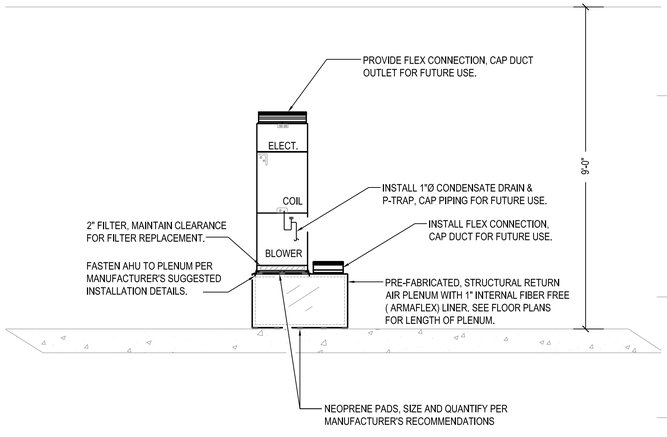
PROJECT NO.: 13270.99

M107

M107 | **NINTH FLOOR PLAN - MECHANICAL**
1/8" = 1'-0"



2 SUB DUCT DETAIL FOR EXHAUST SHAFT
N.T.S.

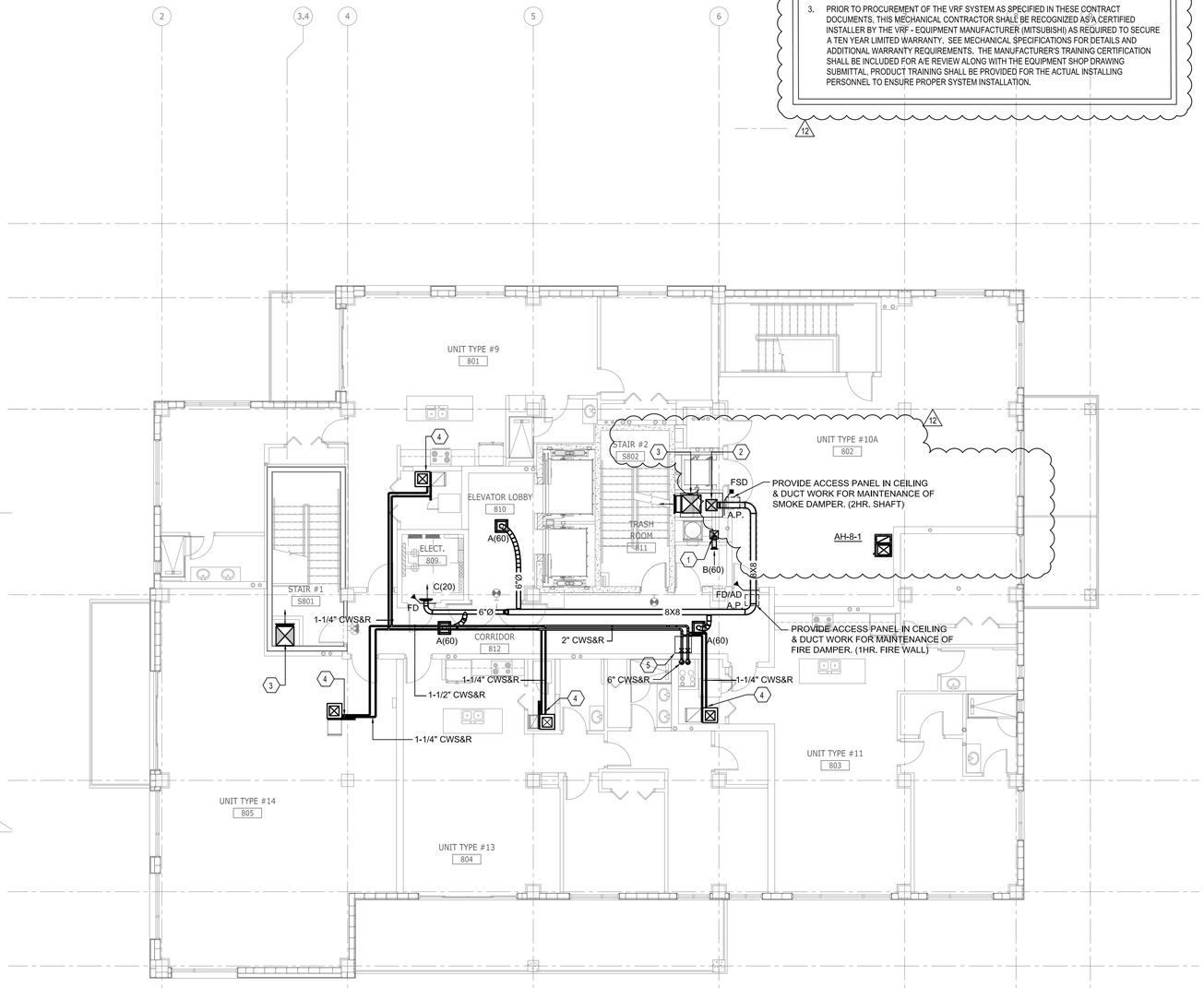


3 VERTICAL (VRF) AHU COMPONENT / INSTALLATION DETAIL
N.T.S.

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3. PRIOR TO PROCUREMENT OF THE VRF SYSTEM AS SPECIFIED IN THESE CONTRACT DOCUMENTS, THIS MECHANICAL CONTRACTOR SHALL BE RECOGNIZED AS A CERTIFIED INSTALLER BY THE VRF - EQUIPMENT MANUFACTURER (MITSUBISHI) AS REQUIRED TO SECURE A TEN YEAR LIMITED WARRANTY. SEE MECHANICAL SPECIFICATIONS FOR DETAILS AND ADDITIONAL WARRANTY REQUIREMENTS. THE MANUFACTURER'S TRAINING CERTIFICATION SHALL BE INCLUDED FOR A/E REVIEW ALONG WITH THE EQUIPMENT SHOP DRAWING SUBMITTAL. PRODUCT TRAINING SHALL BE PROVIDED FOR THE ACTUAL INSTALLING PERSONNEL TO ENSURE PROPER SYSTEM INSTALLATION.

12



NEW SHEET CREATED FOR REV #12 △12

N

GENERAL NOTES

1. REFER TO ENLARGED UNITS PLANS FOR TENANT UNIT HVAC DESIGN.
2. REFER TO SHEET M001 FOR GENERAL NOTES

KEYED NOTES

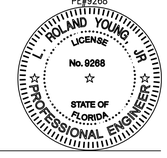
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2. 20"X16" OA DUCT INSIDE SHAFT.
3. REFER TO STAIRWELL PRESSURIZATION SYSTEM DETAIL ON SHEET M110 FOR DUCT SIZES, AIR DEVICE SIZES, LOCATIONS AND SPECIFICATION.
4. CONNECT TO WATER HEAT PUMP UNIT AT THIS LOCATION. REFER TO ENLARGED PLANS FOR UNIT / COIL ORIENTATION. PROVIDE ISOLATION VALVES AT ENTRANCE OF CLOSET, DO NOT INSTALL VALVES IN CORRIDOR. ALL PIPING SHALL BE SCH. 40 STEEL. TRANSITION TO COIL CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION REFER TO UNIT SCHEDULES FOR MORE INFORMATION.
5. CONDENSER WATER MAINS AND BRANCHES LOCATED IN AND EXITING THIS SHAFT NEED TO BE CLOSELY COORDINATED WITH THE NAT GAS, PLUMBING AND ROOF DRAINS. PROVIDE MAIN SHUT-OFF VALVE THAT IS ACCESSIBLE FROM CEILING ACCESS PANEL, INSTALL PIPING STACKED VERTICALLY WHERE EXITING SHAFT TO PROVIDE ROOM FOR DOMESTIC WATER AND NAT. GAS SHUTOFF VALVES. COORDINATE CLOSELY WITH OTHER TRADES TO ENSURE ALL UTILITY SHUT-OFF VALVES ARE ACCESSIBLE FROM THIS LOCATION.

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-3I-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.

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EIGHTH FLOOR PLAN - MECHANICAL 12

PROJECT NO.: 13270.99

M107A

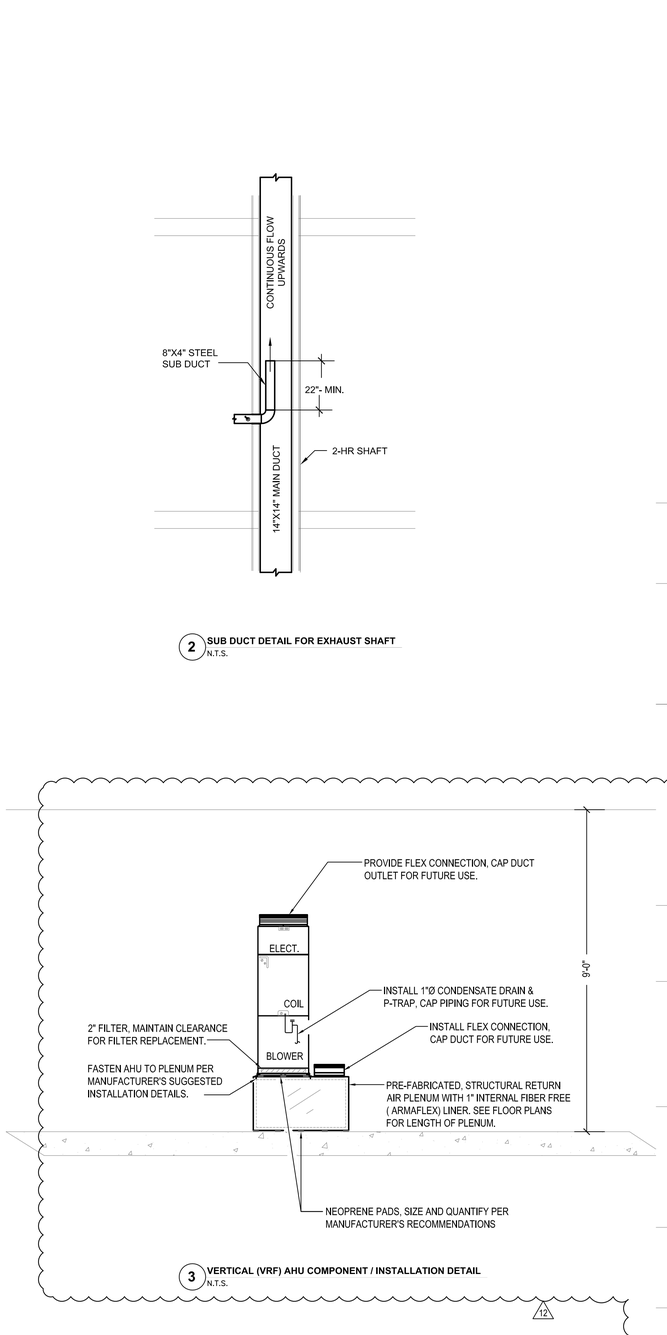
M107A | **EIGHTH FLOOR PLAN - MECHANICAL**
1/8" = 1'-0"

VRF SYSTEM - SCOPE & WARRANTY NOTES

1. A VARIABLE REFRIGERANT FLOW, (VRF) SYSTEM HAS BEEN DESIGNED FOR THE PENTHOUSE "SHELL SPACE" WHICH INCLUDES, OR PARTIALLY INCLUDES THE FOLLOWING FLOORS; 2ND, 8TH, 9TH, 10TH, & ROOF. DUE TO THE LACK OF PROPOSED DATA FOR PENTHOUSE "SHELL SPACE", SOME AIR-HANDLERS HAVE BEEN SELECTED BASED ON THE HEAT GAINS CALCULATED SIMILAR SPACES WITH MATCHING EXPOSURES.
2. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT, PIPING & CONTROLS ASSOCIATED WITH THE VRF SYSTEM TO BE INSTALLED WITH-IN THE "SHELL SPACE". THE "TENANT FIT-OUT" CONTRACT DOCUMENTS WILL BE BID & PERMITTED SEPARATELY. THE "TENANT FIT-OUT" SCOPE WILL INCLUDE DUCTING TO AND FROM EACH AIR-HANDLER, INSTALLATION OF AIR DISTRIBUTION AND OTHER VENTILATION ITEMS. SYSTEM START-UP & COMMISSIONING WILL BE CONDUCTED FOLLOWING THE COMPLETION OF THE "TENANT FIT-OUT" SCOPE. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ENGAGEMENT THROUGH-OUT BOTH PHASES OF THIS PROJECT UNTIL THE SYSTEM START-UP HAS BEEN COMPLETED,THE SYSTEM COMMISSIONING HAS BEEN APPROVED BY THE MANUFACTURER AND THE (10) YEAR FACTORY WARRANTY HAS BEGUN. ADDITIONAL "NON-FACTORY" WARRANTIES SHALL BE PROVIDED AS MANDATED IN OTHER PROJECT REQUIREMENTS.
3. PRIOR TO PROCUREMENT OF THE VRF SYSTEM AS SPECIFIED IN THESE CONTRACT DOCUMENTS, THIS MECHANICAL CONTRACTOR SHALL BE RECOGNIZED AS A CERTIFIED INSTALLER BY THE VRF - EQUIPMENT MANUFACTURER (MITSUBISHI) AS REQUIRED TO SECURE A TEN YEAR LIMITED WARRANTY. SEE MECHANICAL SPECIFICATIONS FOR DETAILS AND ADDITIONAL WARRANTY REQUIREMENTS. THE MANUFACTURER'S TRAINING CERTIFICATION SHALL BE INCLUDED FOR A/E REVIEW ALONG WITH THE EQUIPMENT SHOP DRAWING SUBMITTAL, PRODUCT TRAINING SHALL BE PROVIDED FOR THE ACTUAL INSTALLING PERSONNEL TO ENSURE PROPER SYSTEM INSTALLATION.

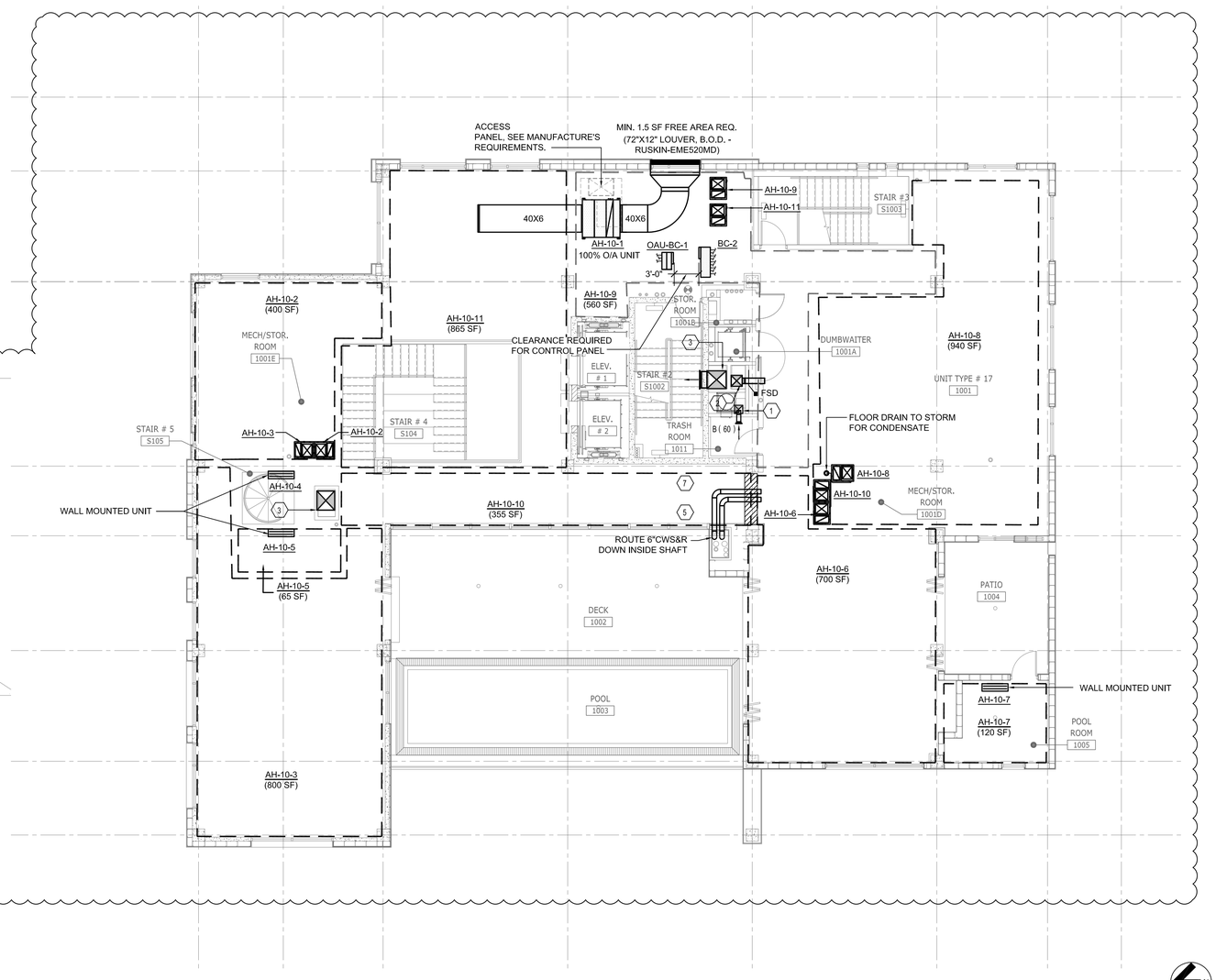
△12

2 SUB DUCT DETAIL FOR EXHAUST SHAFT
N.T.S.



3 VERTICAL (VRF) AHU COMPONENT / INSTALLATION DETAIL
N.T.S.

△12



GENERAL NOTES

1. REFER TO ENLARGED UNITS PLANS FOR TENANT UNIT HVAC DESIGN.
2. REFER TO SHEET M001 FOR GENERAL NOTES

(#)

KEYED NOTES

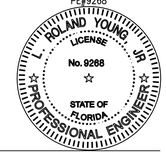
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2. 20"X16" OA DUCT DOWN INSIDE SHAFT. TRANSITION TO 22" DOUBLE WALLED SPIRAL ROUND PRIOR TO PENETRATING ROOF.
3. -"X-" SMOKE CONTROL DUCT IN SIDE SHAFT. REFER TO UPPER ROOF PLAN FOR ASSOCIATED SMOKE CONTROL FAN.
4. ROUTE 12"X12" DUCT UP TO (GRV-1) ON ROOF. REFER TO UPPER ROOF PLAN FOR CONTINUATION.
5. LOUVERS ARE REQUIRED TO SUPPLY COMBUSTION AIR FOR SPA HEATERS. INSTALL (1) LOUVER AT 12" A.F.F. AND (1) LOUVER 12" BELOW ROOF LEVEL. IF STRUCTURE PROHIBITS THE REQUIRED INSTALLATION HEIGHT PROVIDE ALL NECESSARY DUCT AND FITTINGS TO TERMINATE DUCT WITH-IN 12" OF ROOF. REFER TO DETAIL ON THIS SHEET.
6. **CONNECT TO WATER HEAT PUMP UNIT AT THIS LOCATION. REFER TO ENLARGED PLANS FOR UNIT / COIL ORIENTATION. PROVIDE ISOLATION VALVES AT ENTRANCE OF CLOSET, DO NOT INSTALL VALVES IN CORRIDOR. ALL PIPING SHALL BE SCH. 40 STEEL. TRANSITION TO COIL CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION REFER TO UNIT SCHEDULES FOR MORE INFORMATION.**
7. PIPING SHALL PENETRATE EXTERIOR WALL AT THIS POINT, REFER TO ROOF PLAN FOR CONTINUATION OF PIPING.

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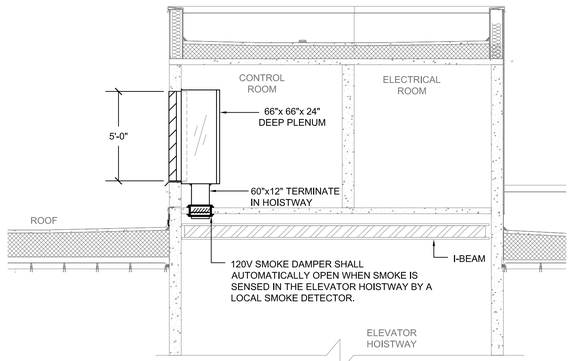
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TENTH FLOOR PLAN - MECHANICAL

PROJECT NO.: 13270.99

M108

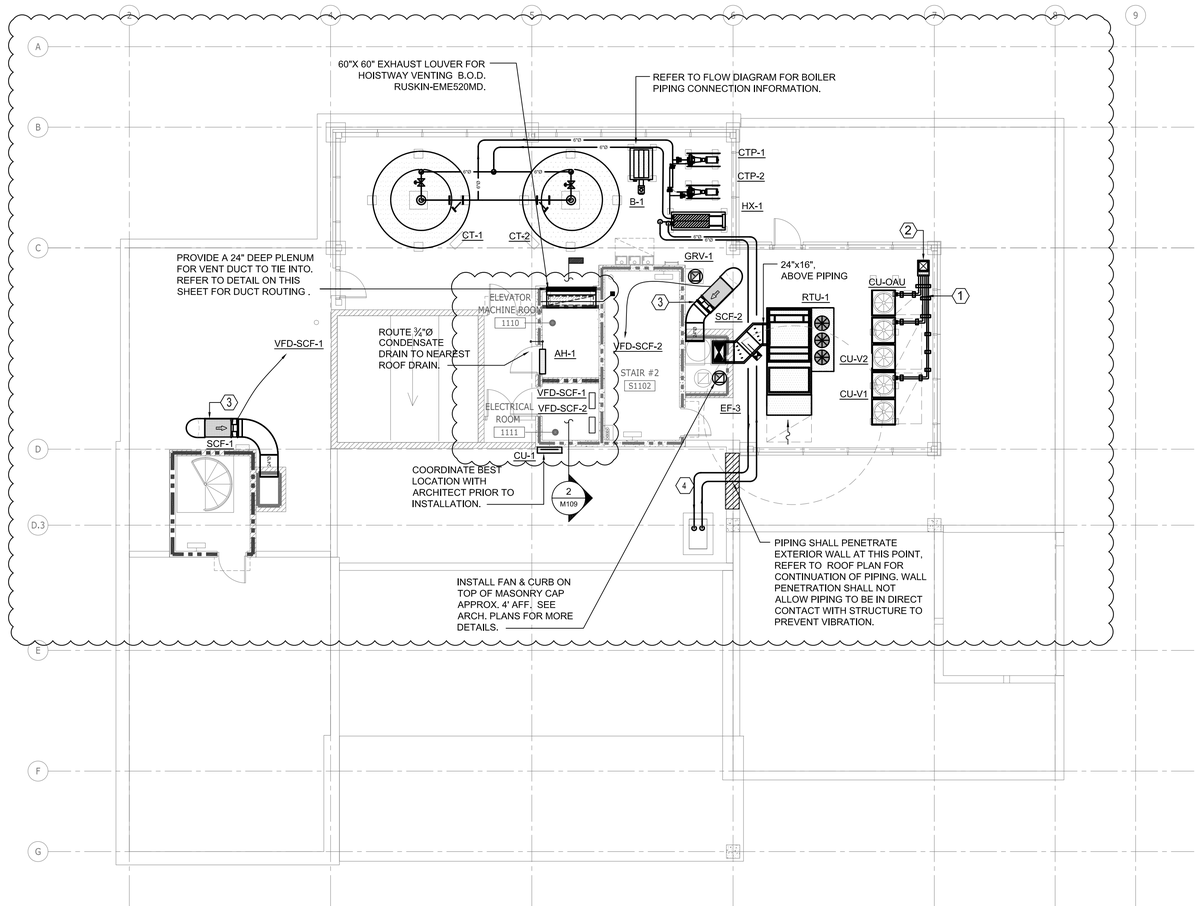
M108 | **TENTH FLOOR PLAN - MECHANICAL**
1/8" = 1'-0"



NOTE:

1. THIS PURPOSE OF THIS DRAWING IS TO CONVEY GENERAL DESIGN INTENT. ALL ARCHITECTURAL COMPONENTS SHOWN ARE APPROXIMATE IN SIZE AND LOCATION.

2 ELEVATOR HOISTWAY VENTING DETAIL
N.T.S



GENERAL NOTES

1. REFER TO SHEET M001 FOR GENERAL NOTES.

KEYED NOTES

1. ROUTE REFRIGERANT LINE SETS TO PIPE PENETRATION HOOD. INSTALL PIPING ON PRE-FABRICATED PIPE CURBS EQUAL TO MI-FAB -C-10. PROVIDE QUANTITY AND SIZE OF REFRIGERANT LINES BASED ON THE MANUFACTURE'S RECOMMENDATIONS AND THE ACTUAL LINE SET ROUTING. COVER ALL INSULATION WITH 0.16" THICK, STUCCO FINISH ALUMINUM JACKETING. EQUIPMENT MODEL NUMBERS.
2. PROVIDE REFRIGERANT PIPING HOOD FOR FOR PENETRATION OF PIPING, DOWN THROUGH ROOF. PIPE HOOD B.O.D. SHALL BE EQUAL TO PATE-PHA-2, HOOD SECURED TO AN INSULATED ROOF CURB, B.O.D. PATE-PC-2.
3. PROVIDE PRE-FABRICATED DUCT SUPPORT CURBS FOR INSTALLATION OF DUCT WORK, BASIS OF DESIGN SHALL BE EQUAL TO PATE - DSS PROVIDE SPACING PER MANUFACTURER'S RECOMMENDATIONS. (TYPICAL).
4. INTERIOR PIPING LOCATED FROM WALL PENETRATION INTO VERTICAL SHAFT SHALL BE INSTALLED ON SPRING ISOLATED HANGARS AND INSULATED WITH TWO LAYERS OF A MASS LOADED ACOUSTIC BLANKET. BLANKET SHALL BE EQUAL TO (KINETICS-KNM-100ALQ).

ROOF MOUNTED EQUIPMENT INSTALLATION NOTE
REFER MECHANICAL SCHEDULES FOR VIBRATION ISOLATION EQUIPMENT FOR PUMPS, COOLING TOWERS, RTU, AND CONDENSING UNITS. ALL ROOF MOUNTED EQUIPMENT SHALL BE VIBRATION FREE UPON START UP.

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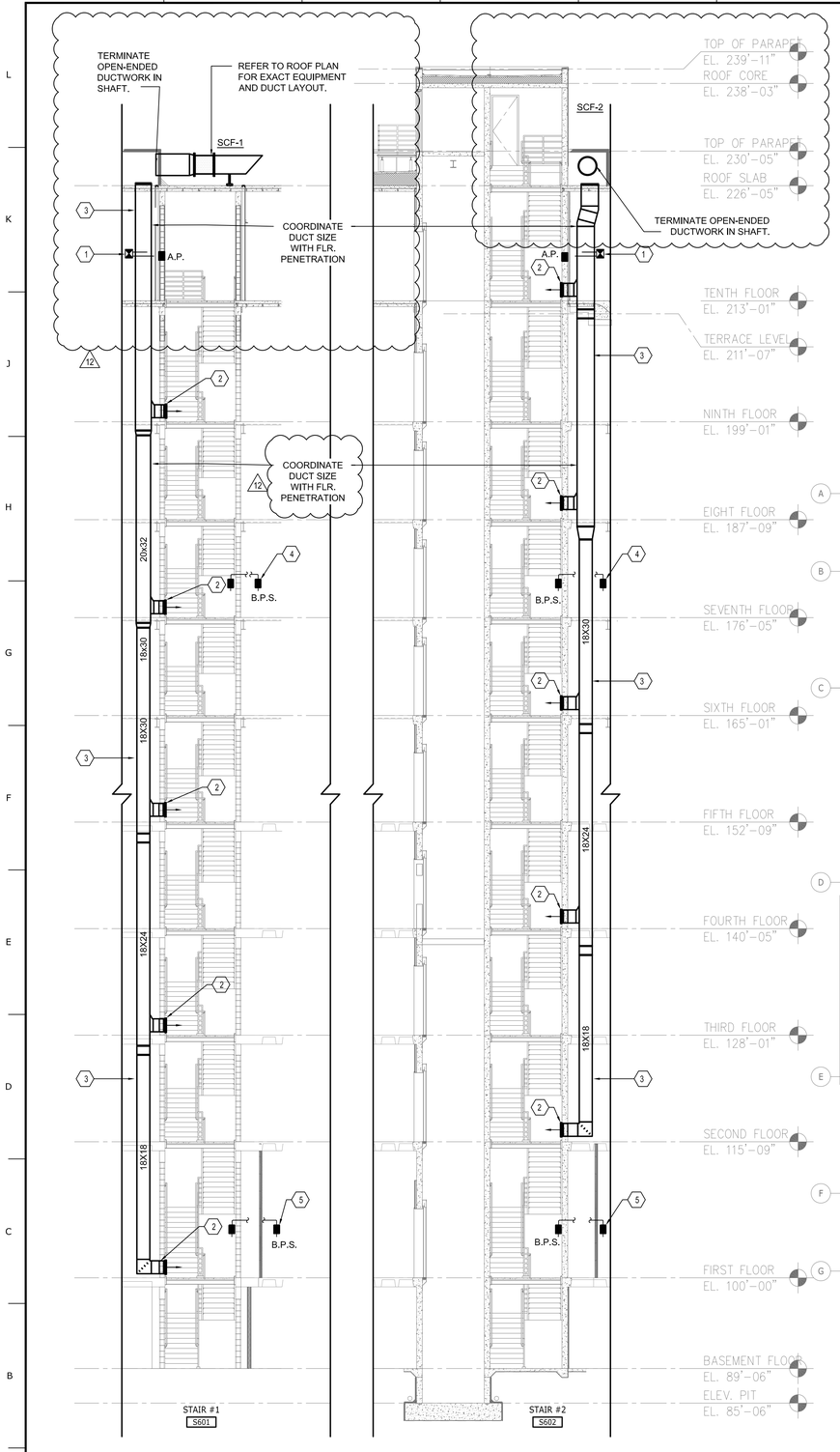
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ROOF PLAN - MECHANICAL

PROJECT NO.: 13270.99

M109

M109 ROOF PLAN - MECHANICAL
1/8" = 1'-0"



2 STAIRWELL PRESSURIZATION SYSTEM DETAIL
1/8"=1'-0"

STAIRWELL PRESSURIZATION SYSTEM VFD SCHEDULE

MARK	SERVING	MANUFACTURER	MODEL	H.P.	MAX DRIVE OUTPUT CURRENT	VOLTS/PH/HZ	
VFD-SCF-1 & VFD-SCF-2	SCF-1 & 2	TOSHIBA	P9-ASD	5.0	-	208/3/60	

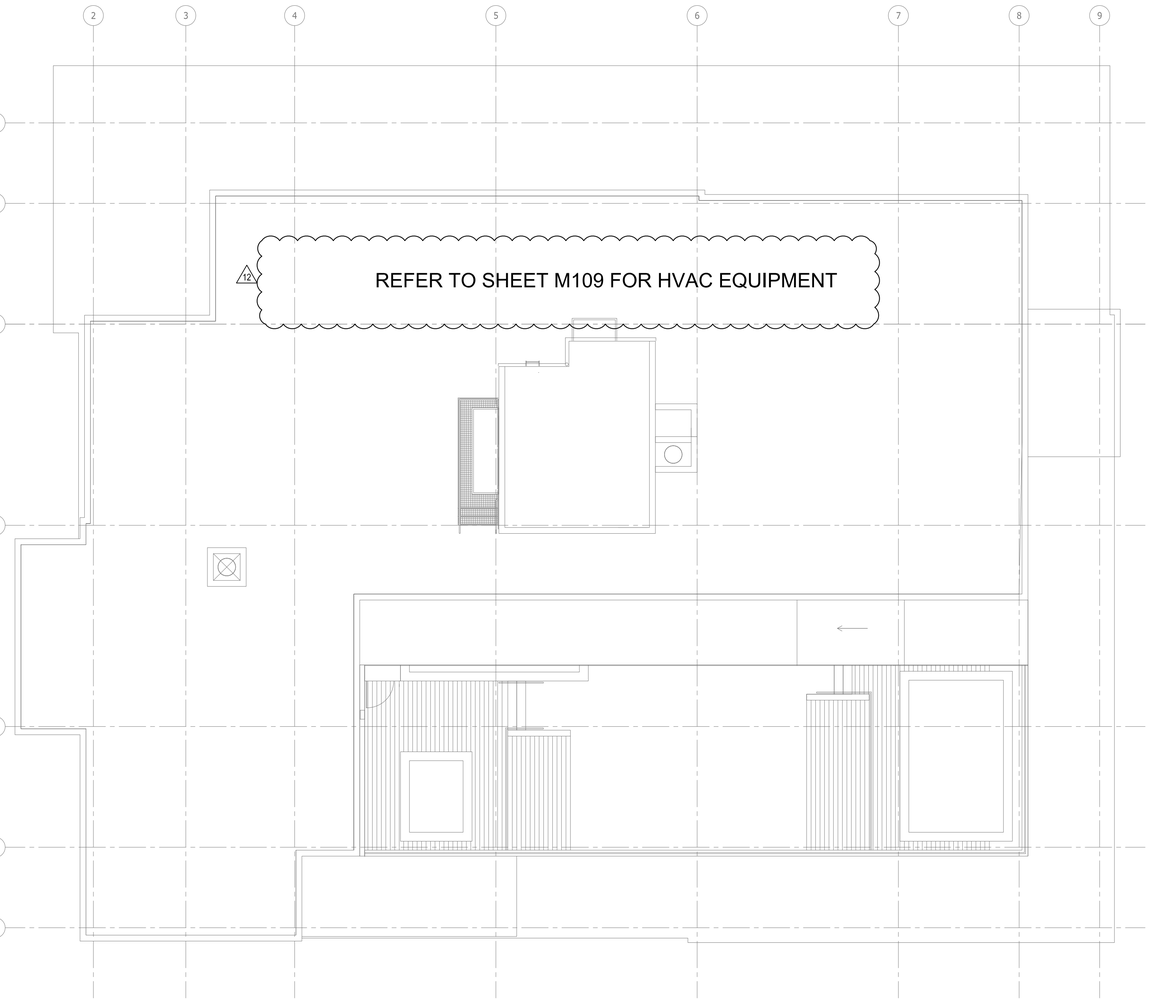
NOTES:
1. VFD SHALL TURN SCF-1 "ON" WHEN A SIGNAL IS RECEIVED FROM THE FIRE ALARM SYSTEM THAT THERE IS SMOKE IN THE STAIRWELL (VIA CONTACT CLOSER IN RELAY). VFD SHALL THEN OPERATE AS A PRESSURE CONTROLLER FOR SCF-1. VFD SHALL ACCEPT INPUT SIGNALS DIRECTLY FORM BUILDING PRESSURE SENSORS LOCATED IN STAIRWELL.
2. THIS SCHEDULE PERTAINS ONLY TO THE STAIRWELL PRESSURIZATION SYSTEM AND ASSOCIATED FANS. REFER TO SPECIFICATIONS FOR ALL OTHER HVAC RELATED VFD'S.

STAIRWELL PRESSURIZATION SYSTEM DESIGN INTENT

1. THE PURPOSE OF THIS SMOKE CONTROL SYSTEM IS TO PREVENT SMOKE FROM ENTERING THE SMOKE CONTROL ZONE BY CREATING A POSITIVE PRESSURE RELATIONSHIP IN THE STAIRWELL WITH RESPECT TO THE SURROUNDING AREAS AND THE STAIRWELL. THE BUILDING PRESSURE SENSORS LOCATED IN THE STAIRWELL SHALL SENSE THE PRESSURE DIFFERENCE BETWEEN THE THE STAIRWELL AND CORRIDOR, RECEPTION LOBBY AND SHALL SEND A CONTROL SIGNAL TO THE VFD FOR CONTROL OF THE ASSOCIATED FAN (SCF-1 & 2) , FAN'S SHALL OPERATE WITHIN THE PARAMETERS SHOWN IN THE "SMOKE CONTROL SYSTEM NOTES". THIS SYSTEM IS DESIGNED IN ACCORDANCE WITH NFPA-92A.

STAIRWELL PRESSURIZATION SYSTEM NOTES

1. SCF-1 & SCF-2 SHALL OPERATE TO MAINTAIN A MINIMUM OF .05" W.G. AND A MAXIMUM OF 0.37" IN SIDE OF STAIRWELL. THIS VALUE IS DERIVED FROM FBC_2007_909.6.
2. THE MAXIMUM PRESSURE VALUE IS BASED OF NFPA - 92A _ TABLE A5.2.2.2.
3. SCF-1 & 2 NEED TO BE ON THE EMERGENCY POWER SYSTEM.



1 UPPER ROOF PLAN – MECHANICAL
1/8"=1'-0"

GENERAL NOTES

1. STAIRWELL PRESSURIZATION SECTIONS ARE PROVIDED FOR GENERAL DUCT ROUTING . SYSTEM CONFIGURATION, DUCT SIZES AND AIR OUTLET LOCATIONS, SIZES AND PRODUCT SPECIFICATION. REFER TO FLOOR PLANS FOR EXACT SHAFT LOCATION IN RELATION TO STAIRWELL.
2. ALL DUCTWORK ASSOCIATED WITH THE STAIRWELL PRESSURIZATION SYSTEM IS CONTAINED WITH IN THE 2-HR RATING OF THE STAIRWELL. SMOKE DAMPERS SHALL NOT BE INSTALLED.

KEYED NOTES

1. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY DUCT. PROVIDE ACCESS PANEL IN WALL FOR ACCESS.
2. PROVIDE 18"X18" PERFORATED SUPPLY AIR DEVICE WITH FACE OPERATED VOLUME DAMPER. BALANCE TO (1700 CFM). B.O.D. TITUS - 8R.
3. REFER TO FLOOR PLANS FOR SHAFT ORIENTATION.
4. BUILDING PRESSURE SENSOR SHALL BE INSTALLED BETWEEN CORRIDOR AND STAIRWELL TO PROVIDE INPUT SIGNAL TO VFD FOR CONTROL OF SCF-1 & 2. REFER TO SYSTEM DESIGN INTENT ON THIS SHEET FOR MORE INFORMATION. EXACT SENSOR LOCATION T.B.D.
5. BUILDING PRESSURE SENSOR SHALL BE INSTALLED BETWEEN RECEPTION LOBBY AND STAIRWELL TO PROVIDE INPUT SIGNAL TO VFD FOR CONTROL OF SCF-1 & 2. REFER TO SYSTEM DESIGN INTENT ON THIS SHEET FOR MORE INFORMATION. EXACT SENSOR LOCATION T.B.D.
6. REFER TO PLUMBING PLANS FOR LOCATION OF NAT. GAS LINE

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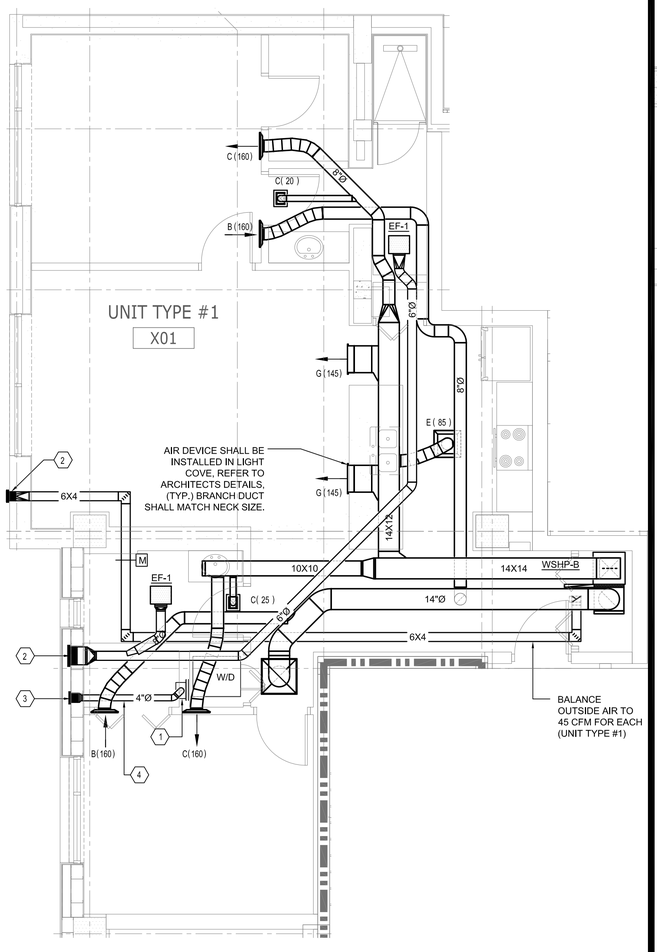
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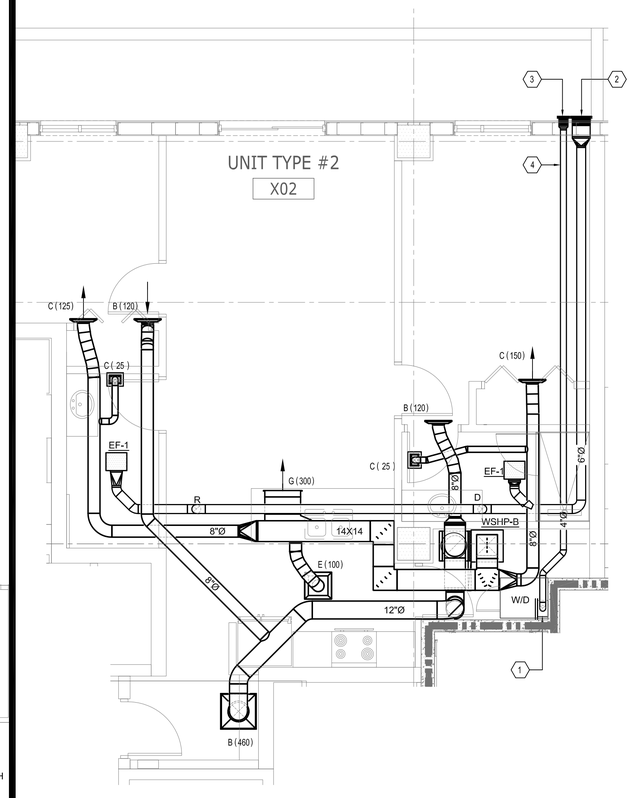
UPPER ROOF PLAN - MECHANICAL

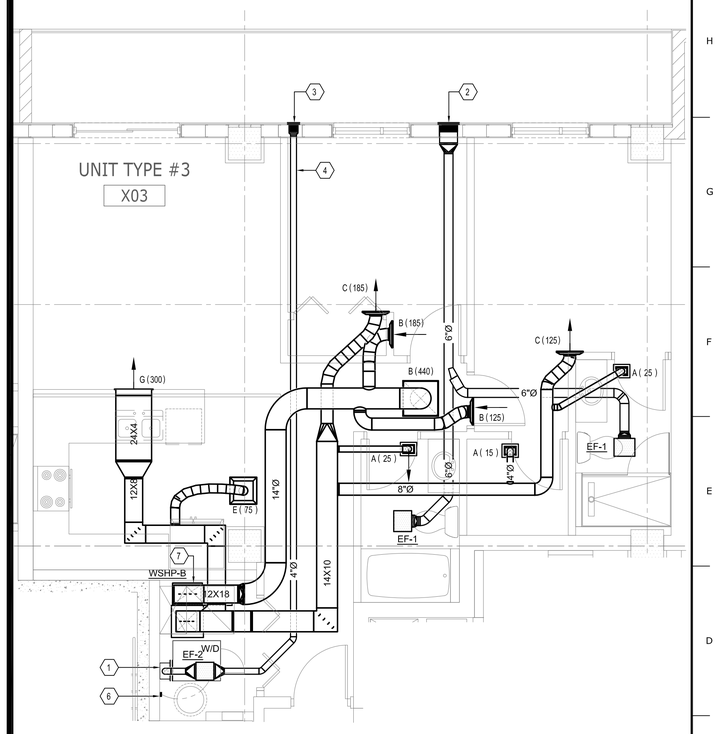
PROJECT NO.: 13270.99

M110

M110 | **UPPER ROOF PLAN - MECHANICAL**
1/8" = 1'-0"







GENERAL NOTES

1. REFER TO MECHANICAL SYMBOL LEGEND AND NOTES FOR PROJECT GENERAL NOTES.

KEYED NOTES

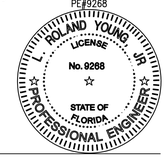
1. ROUTE 4"Ø RIGID UNLINED ELBOW AND DUCT OVERHEAD FROM DRYER VENT TO WALL CAP. PROVIDE BACK DRAFT DAMPER (NO BIRD SCREEN). BASED ON GE SUPER 6.0 CAPACITY ELECTRIC DRYER. 170 CFM, 10 FT. OF DUCT, AND TWO ELBOWS. COORDINATE EXACT SIZE AND ROUTING BASED ON DRYER MANUFACTURER'S SPECIFICATIONS. PROVIDE A MEANS FOR CLEANOUT AT LOW POINT OF VERTICAL RISE. MAINTAIN 6" CLEARANCE FROM ANY COMBUSTIBLE MATERIALS. ROUTE DRYER VENT UP INSIDE WALL. PROVIDE DRYER VENT BOX IN WALL, BY CONSTRUCTION SOLUTIONS COMPANY, MODEL DBX1000, OR EQUAL. PROVIDE OVAL DUCT IN WALL IF 6" WALL IS NOT PROVIDED. SURFACE MOUNT BOX AND STRAP DUCT TO WALL IF WALL IS FIRE RATED.
2. PROVIDE ALL ALUMINUM, PAINT-ABLE, 6" WALL CAP WITH BACKDRAFT-DAMPER & INSECT SCREEN FOR EXHAUST DISCHARGE. COLOR COORDINATE WITH ARCHITECT.
3. PROVIDE ALL ALUMINUM, PAINT-ABLE, 4" WALL CAP WITH BACKDRAFT-DAMPER (NO INSECT SCREEN) FOR DRYER EXHAUST DISCHARGE. COLOR COORDINATE WITH ARCHITECT.
4. DRYER EXHAUST DUCT SHALL BE A MINIMUM OF 28 GAUGE GALVANIZED STEEL OR 0.0175" THICK ALUMINUM. THE DUCT SYSTEM SHALL HAVE A SMOOTH INTERIOR FINISH WITH NO SCREWS PROTRUDING INTO THE AIR STREAM. DUCT SHALL BE SUPPORTED EVERY 4' AND SECURED IN PLACE.
5. PROVIDE ACCESS PANEL IN CEILING FOR MAINTENANCE OF DRYER BOOSTER FAN.
6. WALL MOUNTED LED INDICATOR LIGHT SHALL BE INSTALLED IN PLAIN VIEW OF DRYER ACCESS.
7. PROVIDE MINIMUM 12" DEEP SHEET METAL PLENUM FOR RETURN DUCT CONNECTION. KEEP AS TIGHT AS POSSIBLE TO WALL TO ENSURE CLEARANCE FOR WASHER / DRYER AND WATER HEATER INSTALLATION.
8. FOR THE FIFTH FLOOR ONLY, PROVIDE AND INSTALL TRANSFER AIR DEVICES AND DUCT TO TRANSFER RETURN BACK INTO CORRIDOR.

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

L. Roland Young Jr., PE
PE#9268



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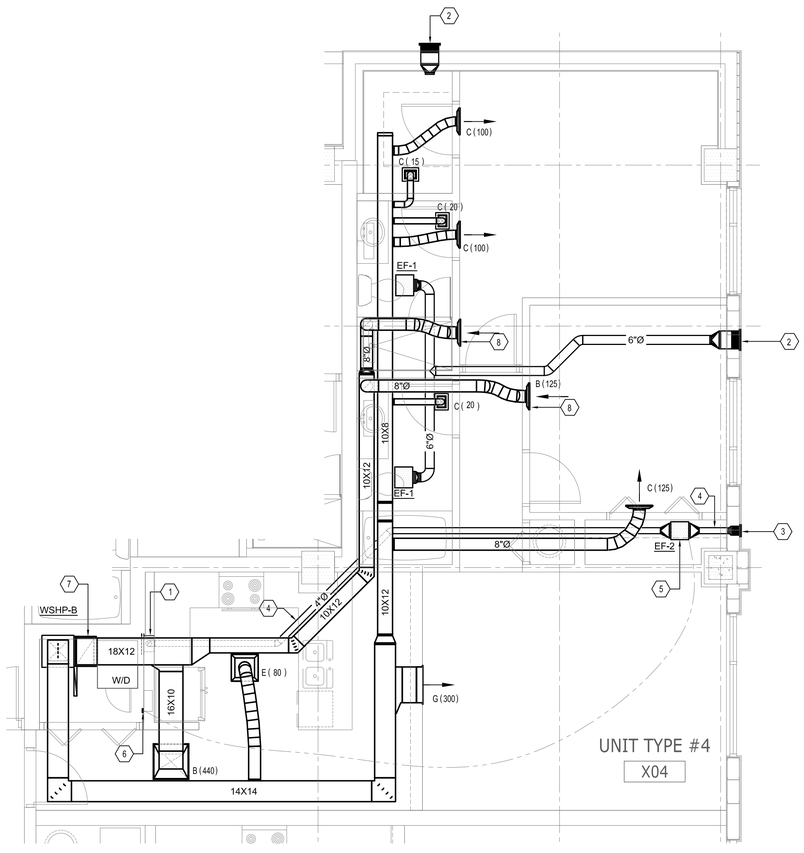
ENLARGED UNIT PLANS - MECHANICAL

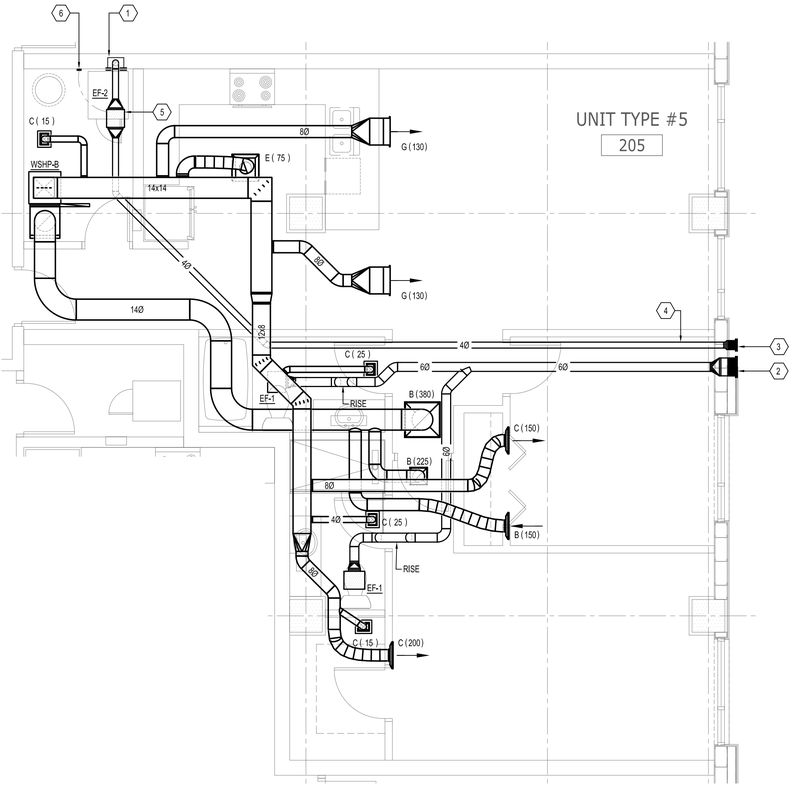
PROJECT NO.: 13270.99

M201

M201 ENLARGED UNIT PLANS - MECHANICAL

1/4" = 1'-0"





GENERAL NOTES

1. REFER TO MECHANICAL SYMBOL LEGEND AND NOTES FOR PROJECT GENERAL NOTES.

(#) KEYED NOTES

1. ROUTE 4"Ø RIGID UNLINED ELBOW AND DUCT OVERHEAD FROM DRYER VENT TO WALL CAP. PROVIDE BACK DRAFT DAMPER (NO BIRD SCREEN). BASED ON GE SUPER 6.0 CAPACITY ELECTRIC DRYER. 170 CFM, 10 FT. OF DUCT, AND TWO ELBOWS. COORDINATE EXACT SIZE AND ROUTING BASED ON DRYER MANUFACTURER'S SPECIFICATIONS. PROVIDE A MEANS FOR CLEANOUT AT LOW POINT OF VERTICAL RISE. MAINTAIN 6" CLEARANCE FROM ANY COMBUSTIBLE MATERIALS. ROUTE DRYER VENT UP INSIDE WALL. PROVIDE DRYER VENT BOX IN WALL, BY CONSTRUCTION SOLUTIONS COMPANY, MODEL DBX1000, OR EQUAL. PROVIDE OVAL DUCT IN WALL IF 6" WALL IS NOT PROVIDED. SURFACE MOUNT BOX AND STRAP DUCT TO WALL IF WALL IS FIRE RATED.
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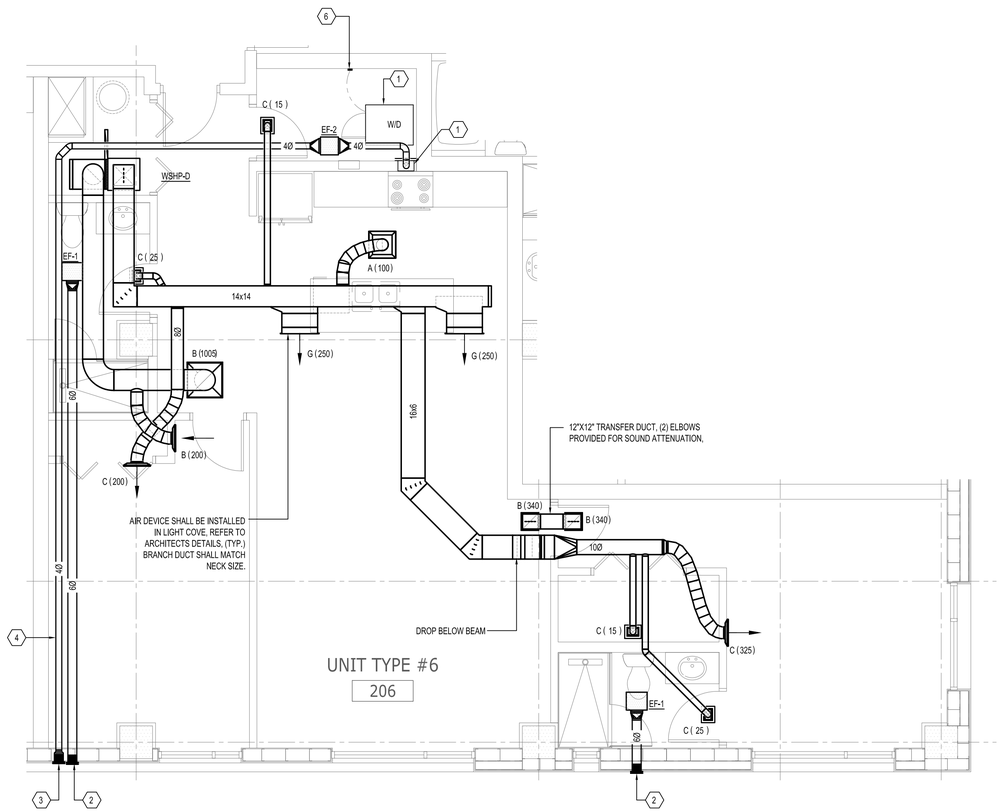
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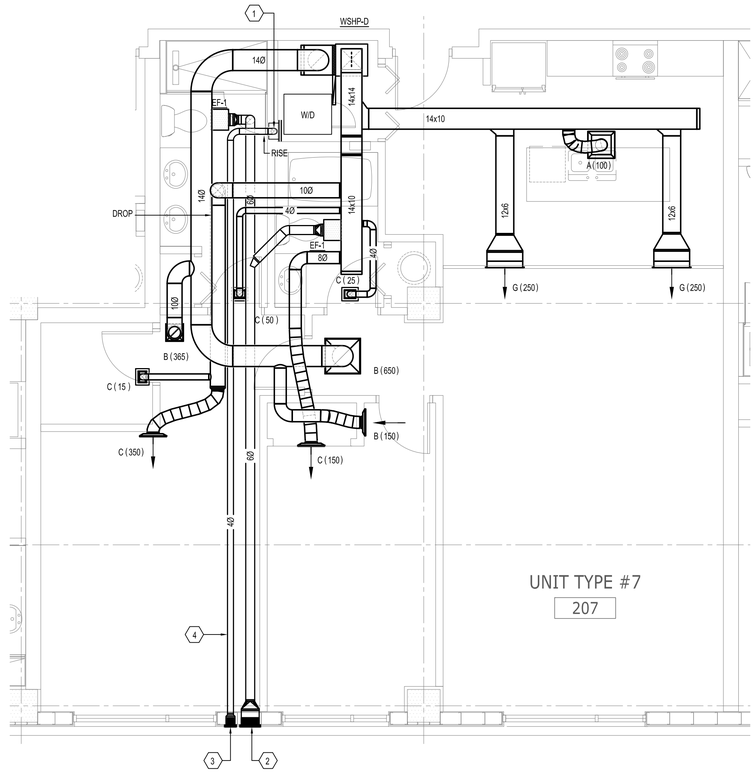
ENLARGED UNIT PLANS - MECHANICAL

PROJECT NO.: 13270.99

M202

M202 | **ENLARGED UNIT PLANS - MECHANICAL**
1/8" = 1'-0"





GENERAL NOTES

1. REFER TO MECHANICAL SYMBOL LEGEND AND NOTES FOR PROJECT GENERAL NOTES.

KEYED NOTES

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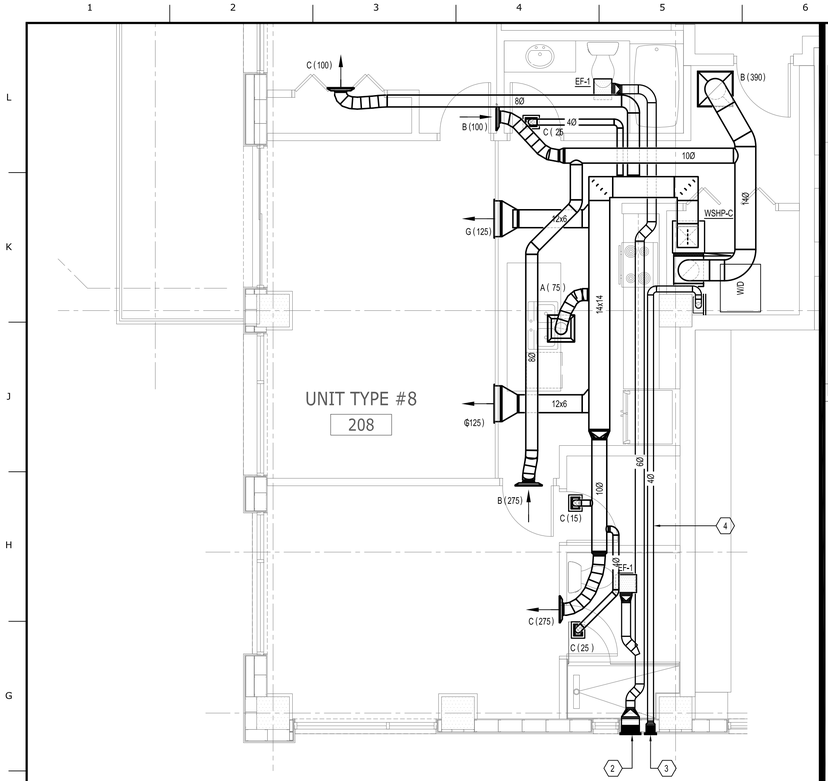
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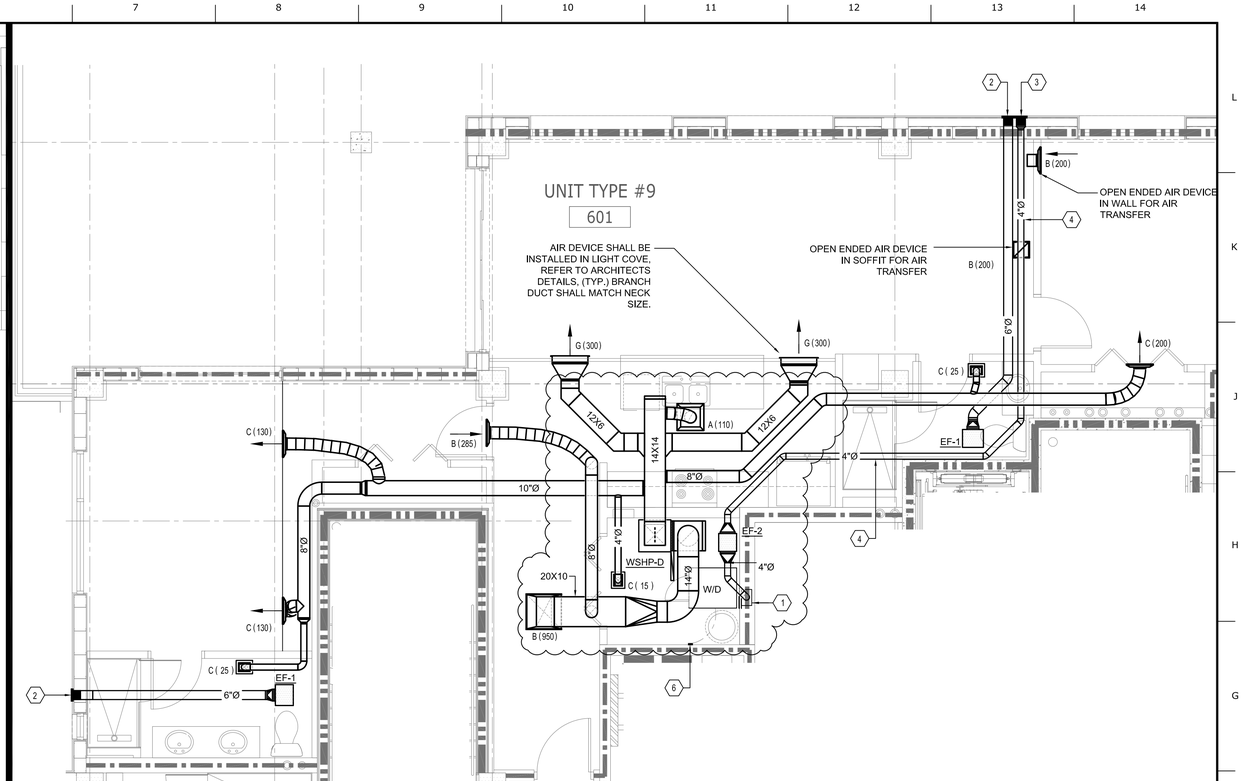
ENLARGED UNIT PLANS - MECHANICAL

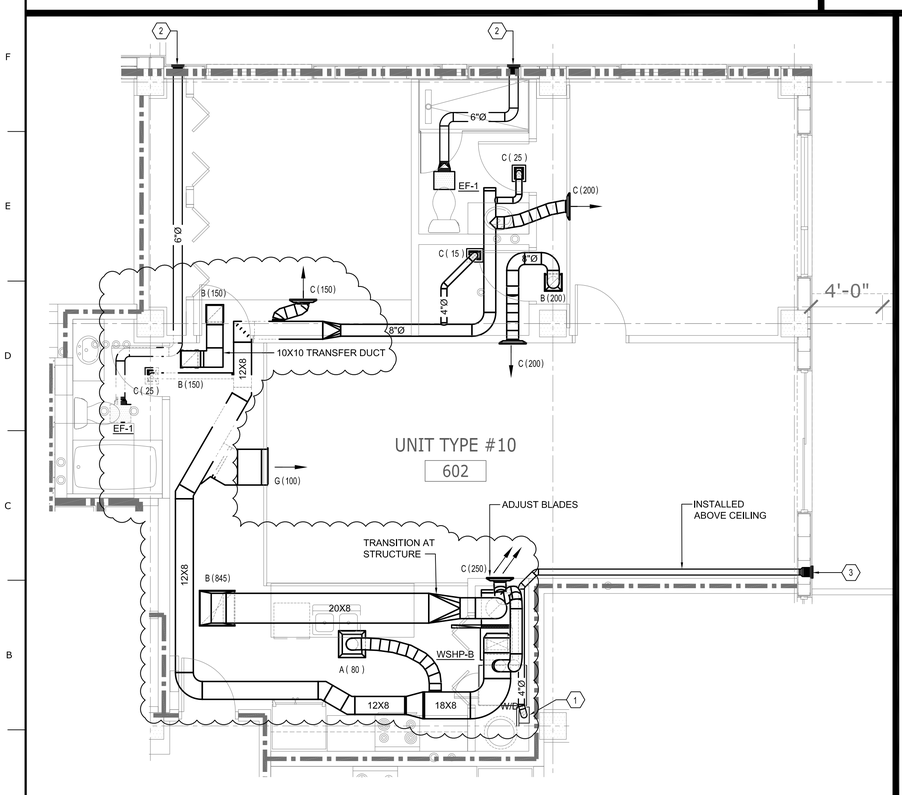
PROJECT NO.: 13270.99

M203

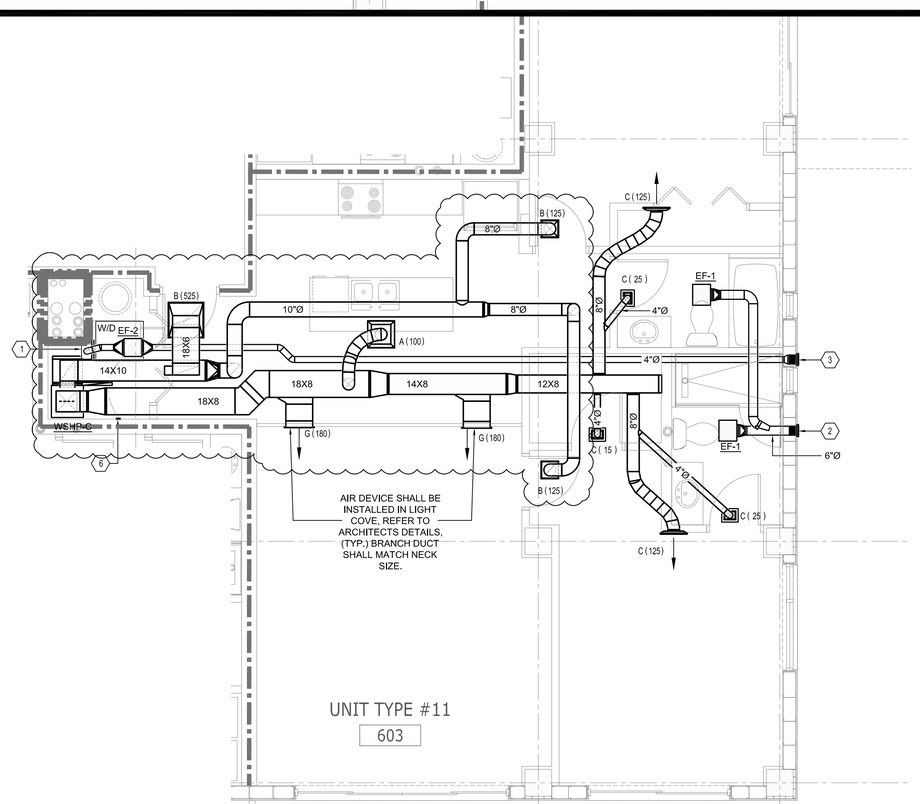
M203 ENLARGED UNIT PLANS - MECHANICAL
1/4" = 1'-0"







4'-0"



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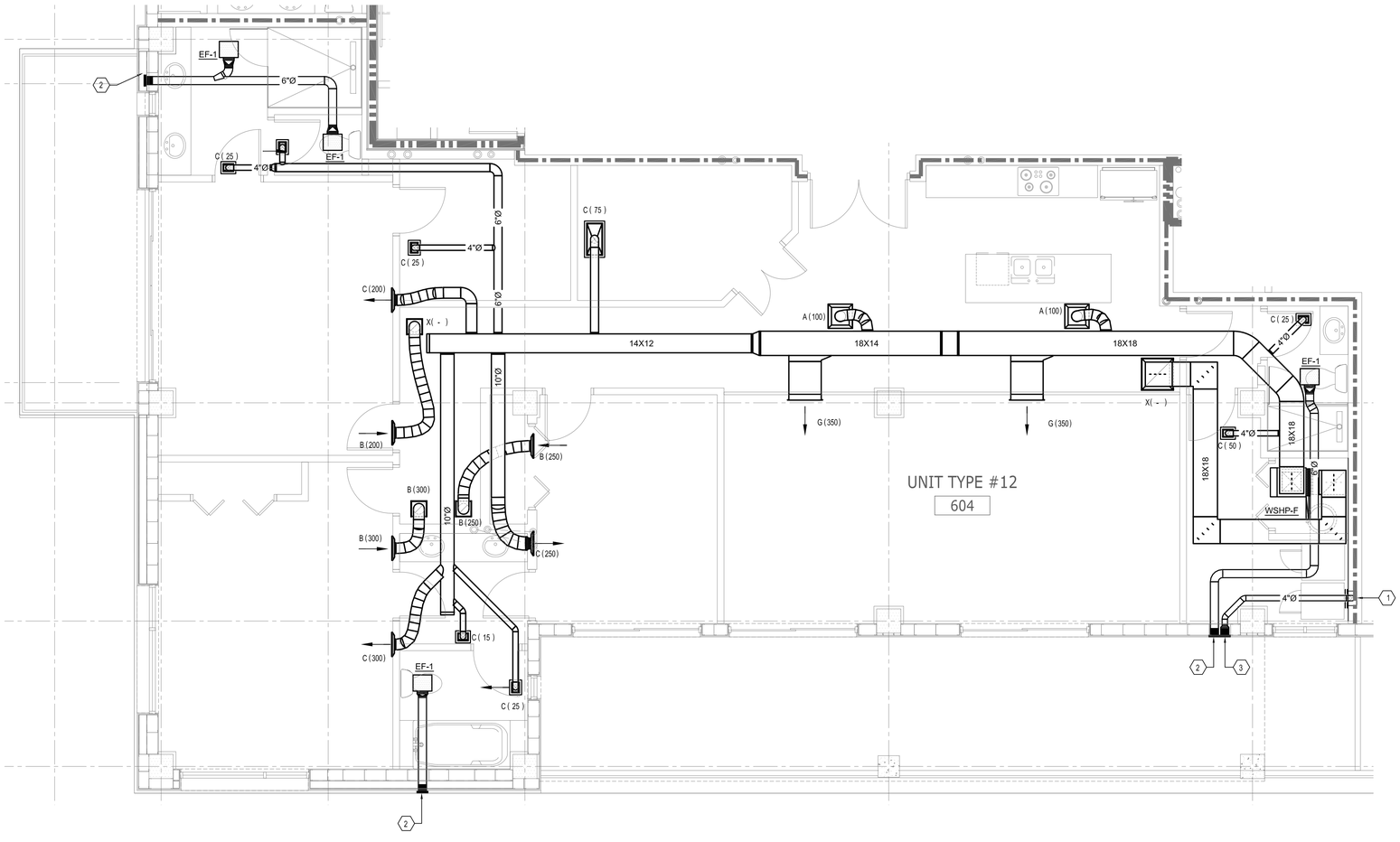
400 CLEVELAND, LLC.
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ENLARGED UNIT PLANS - MECHANICAL

PROJECT NO.: 13270.99

M204

M204 ENLARGED UNIT PLANS - MECHANICAL
1/4" = 1'-0"



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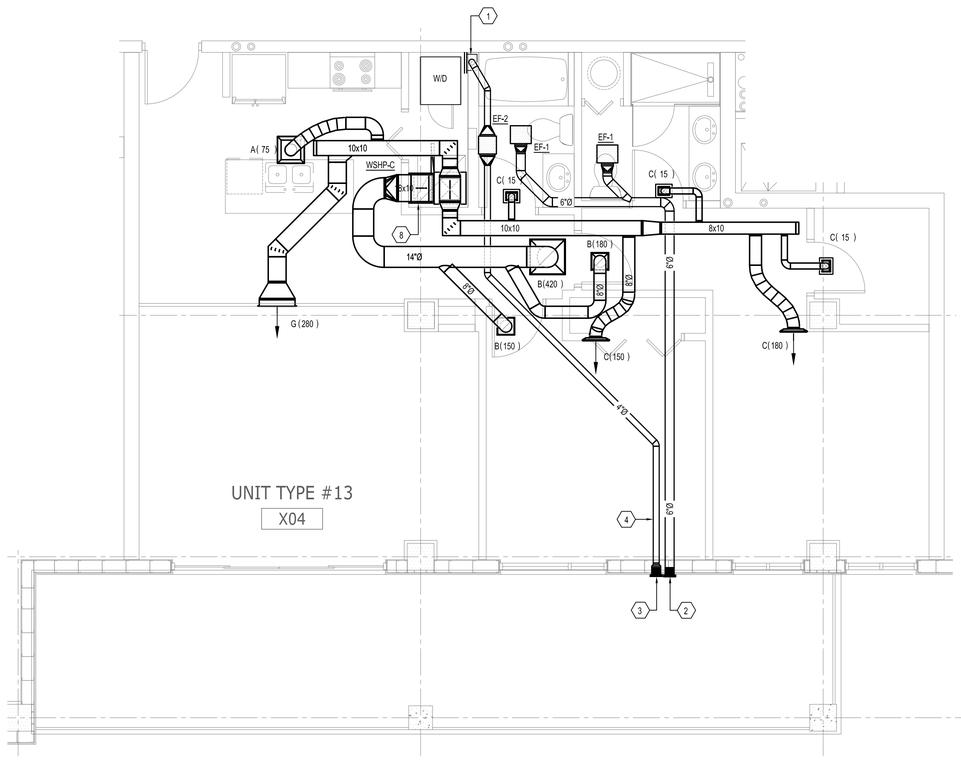
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ENLARGED UNIT PLANS - MECHANICAL

PROJECT NO.: 13270.99

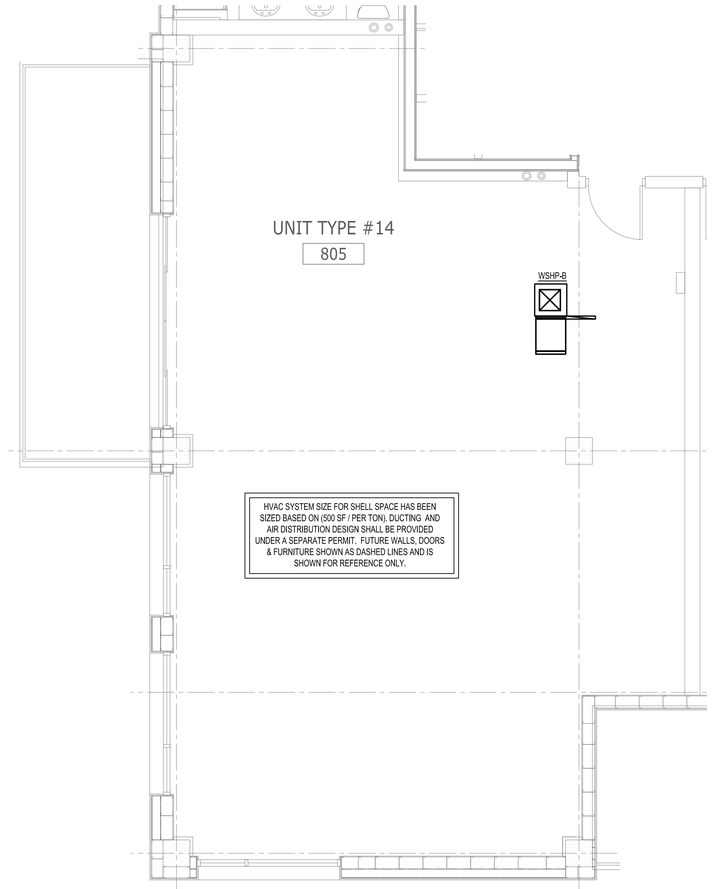
M205

M205 ENLARGED UNIT PLANS - MECHANICAL
1/8" = 1'-0"



UNIT TYPE #13

X04



UNIT TYPE #14

805

HVAC SYSTEM SIZE FOR SHELL SPACE HAS BEEN SIZED BASED ON (500 SF / PER TON). DUCTING AND AIR DISTRIBUTION DESIGN SHALL BE PROVIDED UNDER A SEPARATE PERMIT. FUTURE WALLS, DOORS & FURNITURE SHOWN AS DASHED LINES AND IS SHOWN FOR REFERENCE ONLY.

N

GENERAL NOTES

1. REFER TO MECHANICAL SYMBOL LEGEND AND NOTES FOR PROJECT GENERAL NOTES.

KEYED NOTES

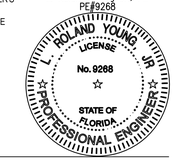
1. ROUTE 4"Ø RIGID UNLINED ELBOW AND DUCT OVERHEAD FROM DRYER VENT TO WALL CAP. PROVIDE BACK DRAFT DAMPER (NO BIRD SCREEN). BASED ON GE SUPER 6.0 CAPACITY ELECTRIC DRYER. 170 CFM, 10 FT. OF DUCT, AND TWO ELBOWS. COORDINATE EXACT SIZE AND ROUTING BASED ON DRYER MANUFACTURER'S SPECIFICATIONS. PROVIDE A MEANS FOR CLEANOUT AT LOW POINT OF VERTICAL RISE. MAINTAIN 6" CLEARANCE FROM ANY COMBUSTIBLE MATERIALS. ROUTE DRYER VENT UP INSIDE WALL. PROVIDE DRYER VENT BOX IN WALL, BY CONSTRUCTION SOLUTIONS COMPANY, MODEL DBX1000, OR EQUAL. PROVIDE OVAL DUCT IN WALL IF 6" WALL IS NOT PROVIDED. SURFACE MOUNT BOX AND STRAP DUCT TO WALL IF WALL IS FIRE RATED.
2. PROVIDE ALL ALUMINUM, PAINT-ABLE, 6" WALL CAP WITH BACKDRAFT-DAMPER & INSECT SCREEN FOR EXHAUST DISCHARGE. COLOR COORDINATE WITH ARCHITECT.
3. PROVIDE ALL ALUMINUM, PAINT-ABLE, 4" WALL CAP WITH BACKDRAFT-DAMPER (NO INSECT SCREEN) FOR DRYER EXHAUST DISCHARGE. COLOR COORDINATE WITH ARCHITECT.
4. DRYER EXHAUST DUCT SHALL BE A MINIMUM OF 28 GAUGE GALVANIZED STEEL OR 0.0175" THICK ALUMINUM. THE DUCT SYSTEM SHALL HAVE A SMOOTH INTERIOR FINISH WITH NO SCREWS PROTRUDING INTO THE AIR STREAM. DUCT SHALL BE SUPPORTED EVERY 4' AND SECURED IN PLACE.
5. PROVIDE ACCESS PANEL IN CEILING FOR MAINTENANCE OF DRYER BOOSTER FAN.
6. WALL MOUNTED LED INDICATOR LIGHT SHALL BE INSTALLED IN PLAIN VIEW OF DRYER ACCESS.
7. PROVIDE MINIMUM 12" DEEP SHEET METAL PLENUM FOR RETURN DUCT CONNECTION. KEEP AS TIGHT AS POSSIBLE TO WALL TO ENSURE CLEARANCE FOR WASHER / DRYER AND WATER HEATER INSTALLATION.
8. FOR THE FIFTH FLOOR ONLY, PROVIDE AND INSTALL TRANSFER AIR DEVICES AND DUCT TO TRANSFER RETURN BACK INTO CORRIDOR.

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	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

L. Roland Young Jr., PE
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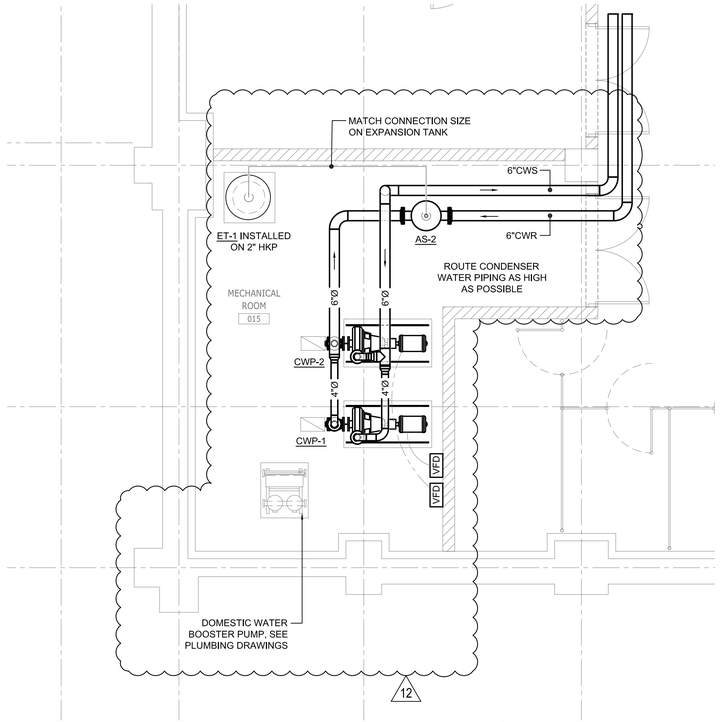
ENLARGED UNIT PLANS - MECHANICAL

PROJECT NO.: 13270.99

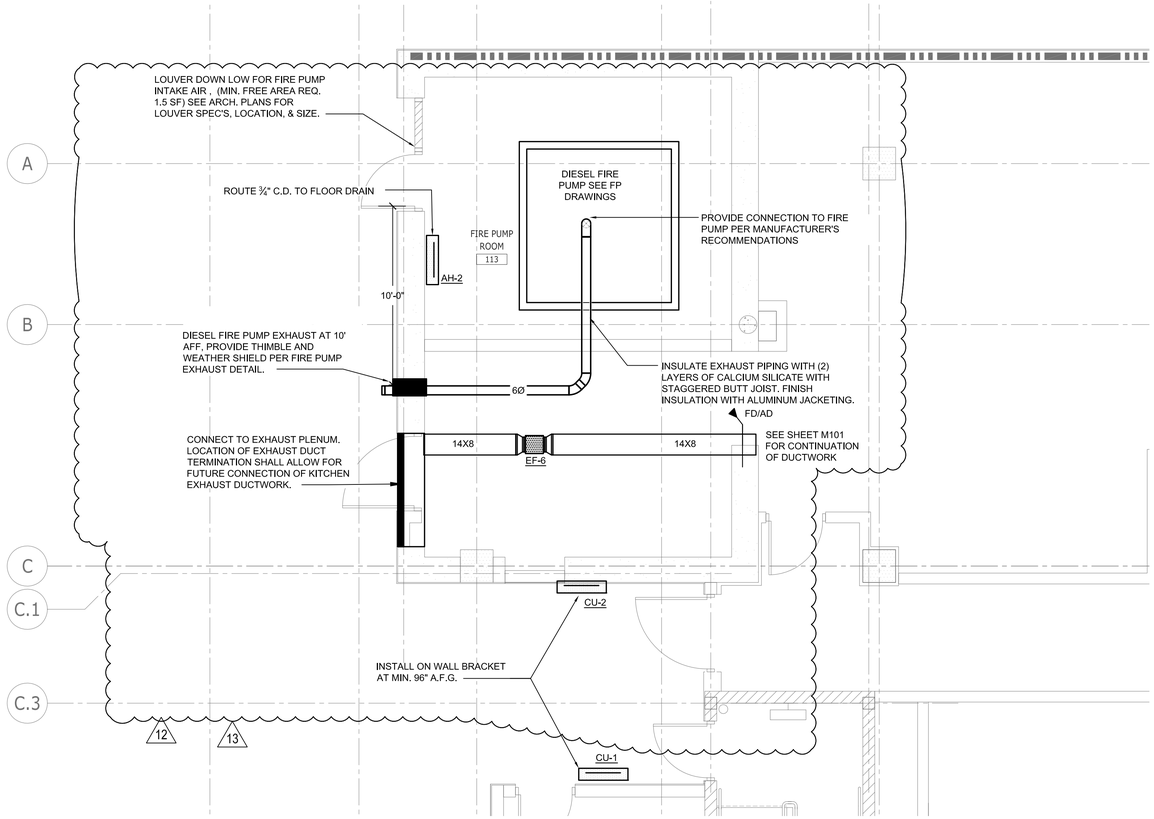
M206

M206 | **ENLARGED UNIT PLANS - MECHANICAL**

1/4" = 1'-0"



3 ENLAQRGED MECHANICAL ROOM #015 (BASEMENT) 12
N.T.S

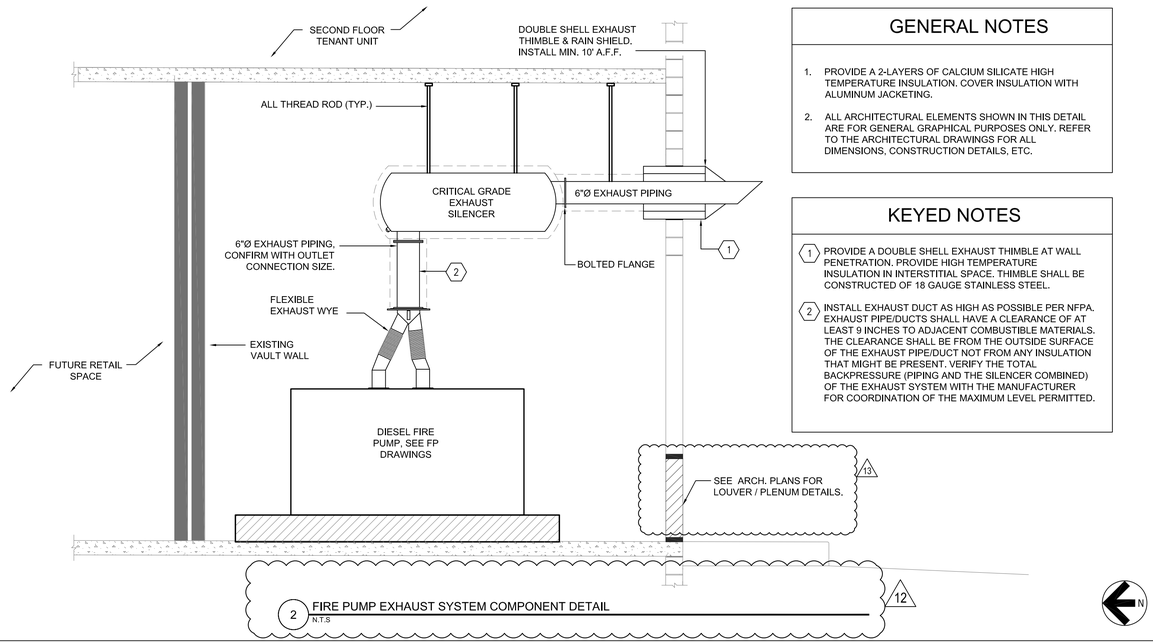


1 GENERATOR / FIRE PUMP ROOM FLOOR PLAN - MECHANICAL
N.T.S

DETAIL REMOVED

13

4 GENERATOR / FIRE PUMP ROOM SECTION
1/4"=1'-0"



2 FIRE PUMP EXHAUST SYSTEM COMPONENT DETAIL
N.T.S

GENERAL NOTES

1. PROVIDE A 2-LAYERS OF CALCIUM SILICATE HIGH TEMPERATURE INSULATION. COVER INSULATION WITH ALUMINUM JACKETING.
2. ALL ARCHITECTURAL ELEMENTS SHOWN IN THIS DETAIL ARE FOR GENERAL GRAPHICAL PURPOSES ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, CONSTRUCTION DETAILS, ETC.

KEYED NOTES

1. PROVIDE A DOUBLE SHELL EXHAUST THIMBLE AT WALL PENETRATION. PROVIDE HIGH TEMPERATURE INSULATION IN INTERSTITIAL SPACE. THIMBLE SHALL BE CONSTRUCTED OF 18 GAUGE STAINLESS STEEL.
2. INSTALL EXHAUST DUCT AS HIGH AS POSSIBLE PER NFPA. EXHAUST PIPE/DUCTS SHALL HAVE A CLEARANCE OF AT LEAST 9 INCHES TO ADJACENT COMBUSTIBLE MATERIALS. THE CLEARANCE SHALL BE FROM THE OUTSIDE SURFACE OF THE EXHAUST PIPE/DUCT NOT FROM ANY INSULATION THAT MIGHT BE PRESENT. VERIFY THE TOTAL BACKPRESSURE (PIPING AND THE SILENCER COMBINED) OF THE EXHAUST SYSTEM WITH THE MANUFACTURER FOR COORDINATION OF THE MAXIMUM LEVEL PERMITTED.

GENERAL NOTES

1. REFER TO MECHANICAL SYMBOL LEGEND AND NOTES FOR PROJECT GENERAL NOTES.

KEYED NOTES

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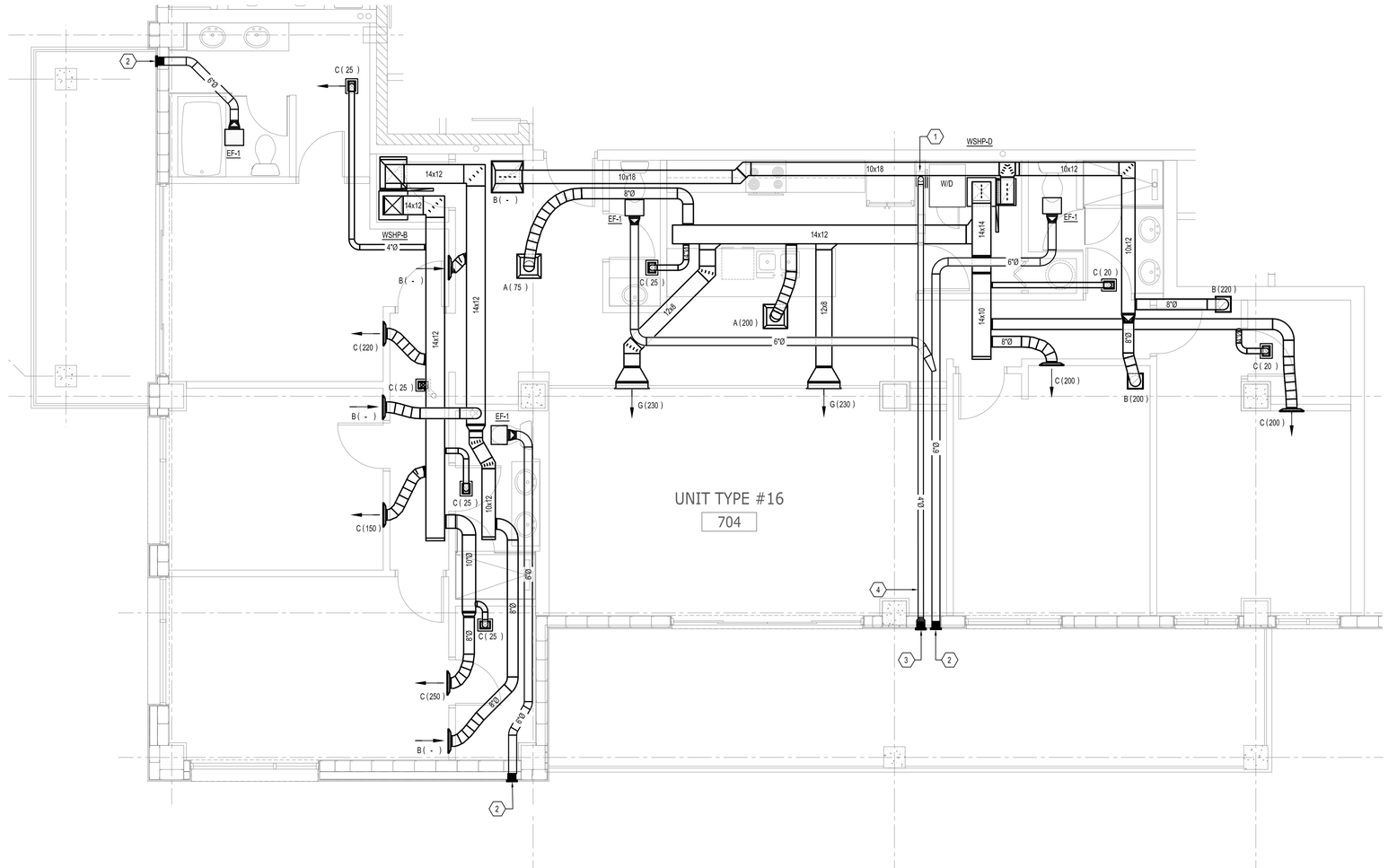
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CLEARWATER, FLORIDA 33755

ENLARGED PLANS - MECHANICAL

PROJECT NO.: 13270.99

M208

M208 | **ENLARGED PLANS - MECHANICAL**
1/4" = 1'-0"



NEW SHEET CREATED FOR REV #12 12

GENERAL NOTES

1. REFER TO MECHANICAL SYMBOL LEGEND AND NOTES FOR PROJECT GENERAL NOTES.

KEYED NOTES

1. ROUTE 4"Ø RIGID UNLINED ELBOW AND DUCT OVERHEAD FROM DRYER VENT TO WALL CAP. PROVIDE BACK DRAFT DAMPER (NO BIRD SCREEN). BASED ON GE SUPER 6.0 CAPACITY ELECTRIC DRYER. 170 CFM, 10 FT. OF DUCT, AND TWO ELBOWS. COORDINATE EXACT SIZE AND ROUTING BASED ON DRYER MANUFACTURER'S SPECIFICATIONS. PROVIDE A MEANS FOR CLEANOUT AT LOW POINT OF VERTICAL RISE. MAINTAIN 6" CLEARANCE FROM ANY COMBUSTIBLE MATERIALS. ROUTE DRYER VENT UP INSIDE WALL. PROVIDE DRYER VENT BOX IN WALL, BY CONSTRUCTION SOLUTIONS COMPANY, MODEL DBX1000, OR EQUAL. PROVIDE OVAL DUCT IN WALL IF 6" WALL IS NOT PROVIDED. SURFACE MOUNT BOX AND STRAP DUCT TO WALL IF WALL IS FIRE RATED.
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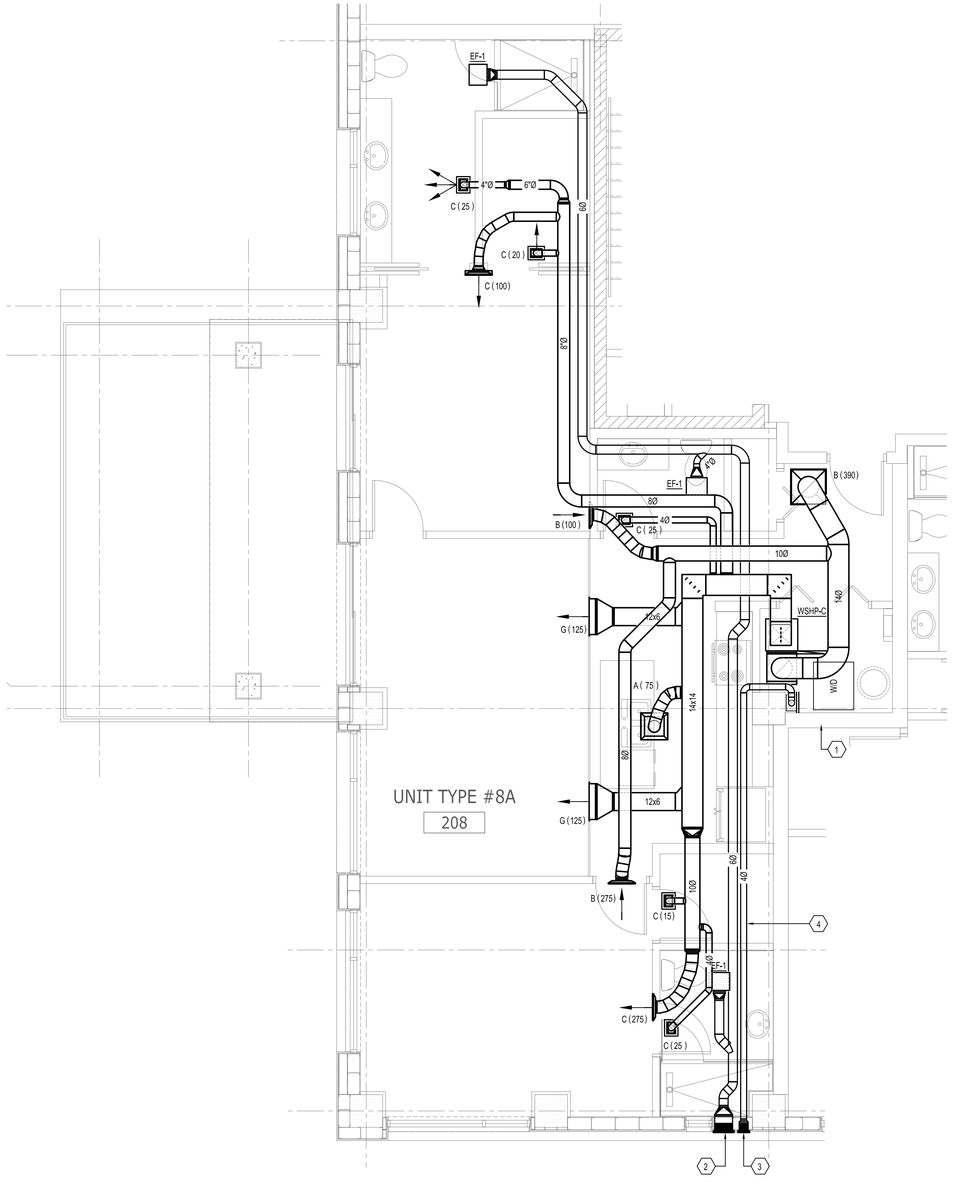
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CLEARWATER, FLORIDA 33755

ENLARGED UNIT PLANS - MECHANICAL 12

PROJECT NO.: 13270.99

M209

A1 **ENLARGED UNIT PLANS - MECHANICAL**
1/4" = 1'-0"



NEW SHEET CREATED FOR REV #12

12

GENERAL NOTES

1. REFER TO MECHANICAL SYMBOL LEGEND AND NOTES FOR PROJECT GENERAL NOTES.

KEYED NOTES

1. ROUTE 4"Ø RIGID UNLINED ELBOW AND DUCT OVERHEAD FROM DRYER VENT TO WALL CAP. PROVIDE BACK DRAFT DAMPER (NO BIRD SCREEN), BASED ON GE SUPER 6.0 CAPACITY ELECTRIC DRYER. 170 CFM, 10 FT. OF DUCT, AND TWO ELBOWS. COORDINATE EXACT SIZE AND ROUTING BASED ON DRYER MANUFACTURER'S SPECIFICATIONS. PROVIDE A MEANS FOR CLEANOUT AT LOW POINT OF VERTICAL RISE. MAINTAIN 6" CLEARANCE FROM ANY COMBUSTIBLE MATERIALS. ROUTE DRYER VENT UP INSIDE WALL. PROVIDE DRYER VENT BOX IN WALL, BY CONSTRUCTION SOLUTIONS COMPANY, MODEL DBX1000, OR EQUAL. PROVIDE OVAL DUCT IN WALL IF 6" WALL IS NOT PROVIDED. SURFACE MOUNT BOX AND STRAP DUCT TO WALL IF WALL IS FIRE RATED.
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ENLARGED UNIT PLANS - MECHANICAL

12

PROJECT NO.: 13270.99

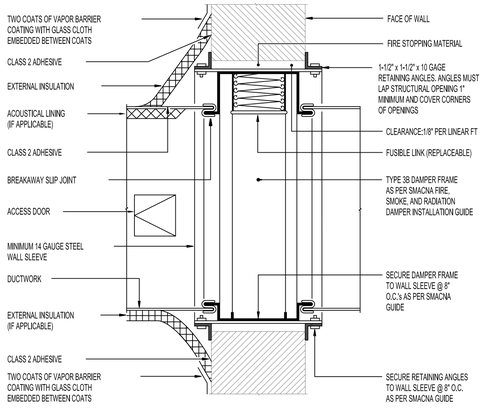
M210

A1 ENLARGED UNIT PLANS - MECHANICAL

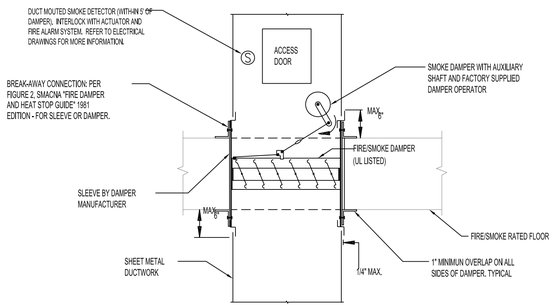
1/4" = 1'-0"

NOTES

1. INSULATION TO EXTEND A MINIMUM OF 3' ON THE WALL.



D | **NO SCALE** | FIRE DAMPER DETAIL – THRU WALL



COMBINATION FIRE/SMOKE DAMPER SHALL BE AS MANUFACTURED BY GREENHECK.
WITH SLEEVE. FIRE/SMOKE DAMPER SHALL BEAR THE U.L LABELS FOR
BOTH FIRE DAMPERS AND LEAKAGE RATED (SMOKE) DAMPERS. U.L 555, CLASS I. DAMPER ACTIVATOR
MOTOR SHALL BE THE TWO POSITION (NORMALLY OPEN) TYPE. VOLTAGE REQUIRED 120 VOLT.
FIRE/SMOKE DAMPER AND ACTIVATOR SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS
APPROVED EQUAL: RUSKIN, NAILOR INDUSTRIES, AND LOUVERS & DAMPERS INC.

ALL SMOKE DAMPERS SHALL CLOSE AND THAN OPEN AUTOMATICALLY ON RESTORATION OF THE FIRE ALARM "ALL CLEAR" SIGNAL. COORDINATE WITH THE FIRE ALARM SYSTEM AS REQUIRED.

NO SCALE | FIRE/SMOKE DAMPER DETAIL

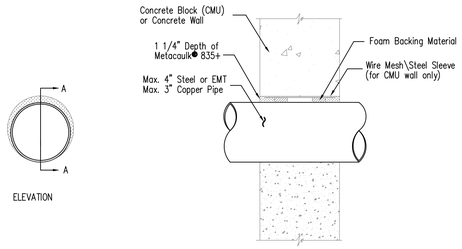
Classified UL C US

metacaulk®

System No. CAJ1247

835+CF-31
Floor Penetration
2 Hour Rating

F Rating = 2 Hr.
T rating = 0 Hr.



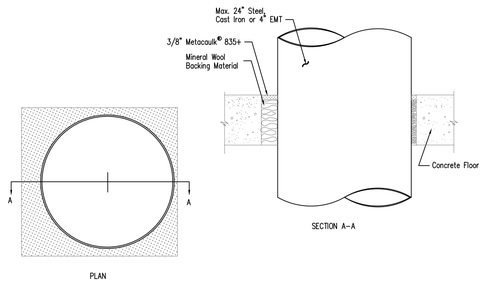
Classified UL C US

metacaulk®

System No. CAJ8067

835+CF-53
Floor Penetration
2 Hour Rating

F Rating = 2 Hr.
T rating = 0 Hr.



B | **NO SCALE** | PIPE–CONCRETE PENETRATION DETAIL

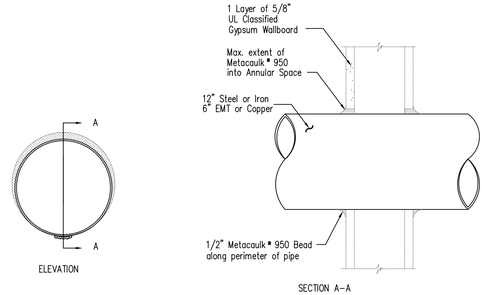
Classified UL C US

metacaulk®

System No. WL1074

950+GW-40
Wall Penetration
1 Hour Rating

F Rating = 1 Hr.
T rating = 0 Hr.



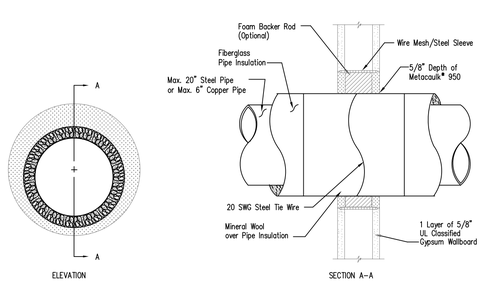
Classified UL C US

metacaulk®

System No. WL5056

950+GW-42
Wall Penetration
1 Hour Rating

F Rating = 1 Hr.
T rating = 0 Hr.



A | **NO SCALE** | PIPE–FRAME WALL PENETRATION DETAIL

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PE#9268
LICENSE No. 9268 STATE OF FLORIDA PROFESSIONAL ENGINEER

VOLT AIR CONSULTING ENGINEERS
220 West 7th Avenue, Suite 210
Tampa, Florida 33602 TEL 888.891.9713
COA 27158 Project No. 13097

Baker Barrios
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TAMPA, FLORIDA 33602
813 . 549 . 1900
INFO@BAKERBARRIOS.COM
BAKERBARRIOS.COM
AA0002981 + LC26000427

THE SKYVIEW CONDOMINIUMS

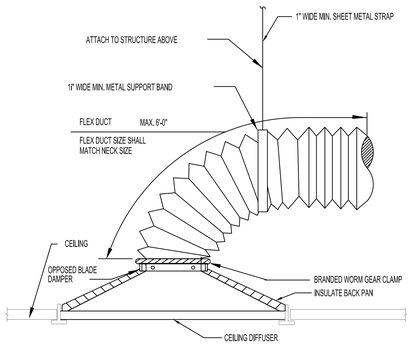
400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

DETAILS - MECHANICAL

PROJECT NO.: 13270.99

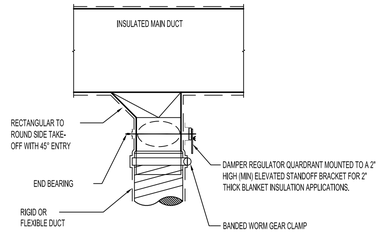
M301

M301 | **DETAILS - MECHANICAL**
N.T.S.

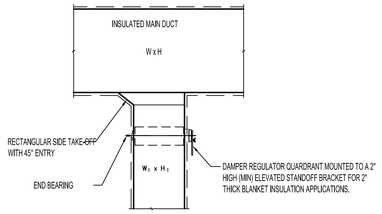


(SIDE OF DUCT CONNECTION)

E NO SCALE TYPICAL DIFFUSER CONNECTION

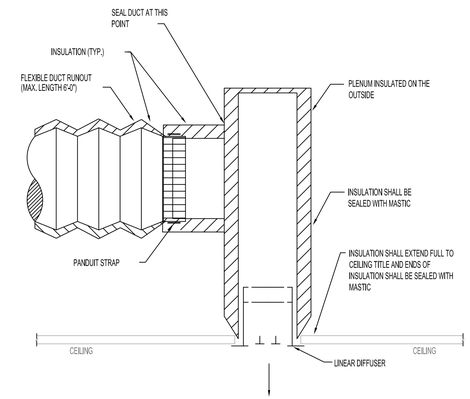


ROUND RUN-OUT

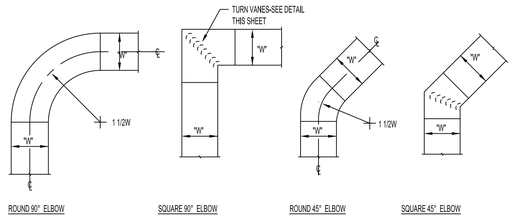


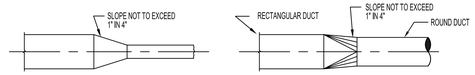
RECTANGULAR BRANCH

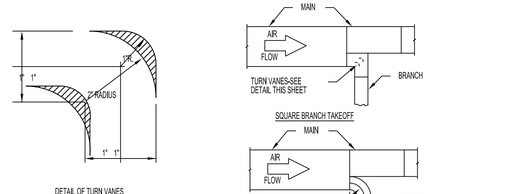
F NO SCALE BRANCH TAKEOFFS



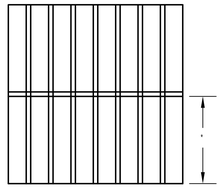
C NO SCALE LINEAR DIFFUSER CONNECTION







D NO SCALE DUCT FITTINGS DETAIL



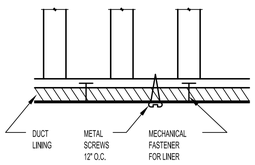
* MAXIMUM UNSUPPORTED VANE LENGTH

SMALL DOUBLE VANE	60"
LARGE DOUBLE VANE	72"

INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBACKED VANE LENGTH.

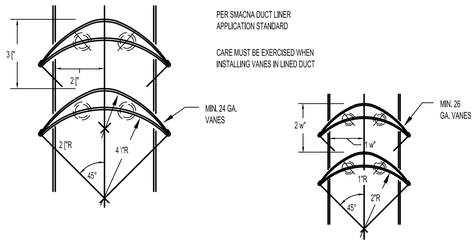
VANES SHALL BE SECURELY FASTENED TO RUNNERS.

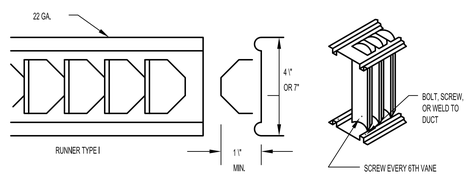
ALL VANES SHALL BE SECURE AND STABLE IN INSTALLED OPERATING POSITION.



PER SMACNA DUCT LINER APPLICATION STANDARD

CARE MUST BE EXERCISED WHEN INSTALLING VANES IN LINED DUCT





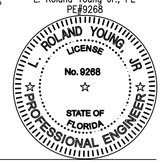
B NO SCALE TURNING VANES & DUCT TRANSITION

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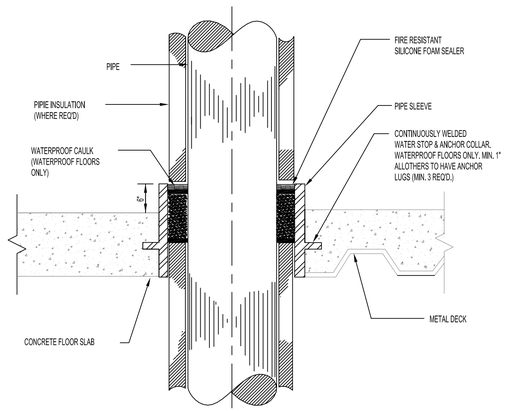
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DETAILS - MECHANICAL

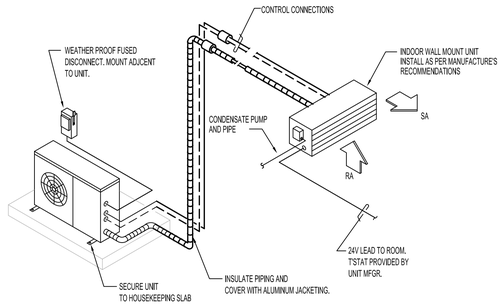
PROJECT NO.: 13270.99

M302

M302 DETAILS - MECHANICAL
N.T.S.



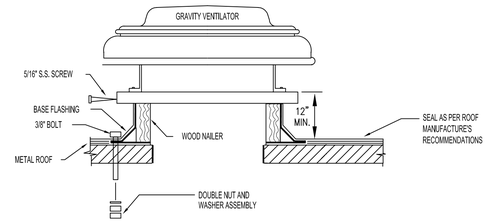
E | NO SCALE | PIPE SLEEVE THROUGH FLOOR DETAIL



NOTES

1. CONCEAL PIPING IN WALL OR FURRED OUT WALL SPACE.
2. PROVIDE LINE COVERS TO CONCEAL ANY EXPOSED PIPE WHERE PIPE CAN NOT BE CONCEALED ABOVE CEILING OR INSIDE WALL VERTICAL CHASE.
3. PROVIDE A DDC GATEWAY INTERFACE COMMUNICATION MODULE BETWEEN UNIT APPLICATION SPECIFIC CONTROLLER AND BUILDING LEVEL CONTROL SYSTEM
4. PROVIDE MANUFACTURES CONDENSATE PUMP

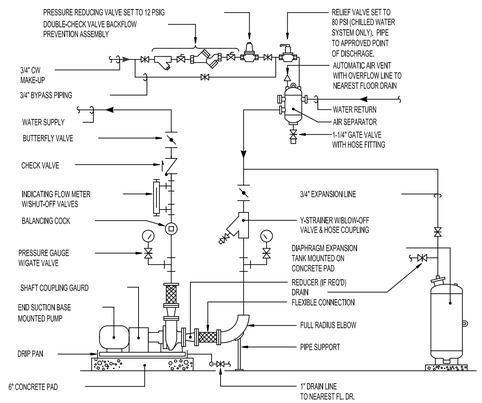
C | NO SCALE | DUCTLESS AIR CONDITIONER UNIT DETAIL



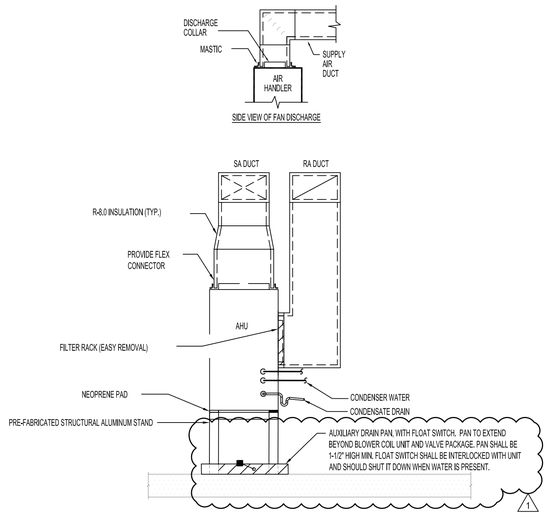
NOTES

1. ANCHOR CURB TO ROOF STRUCTURE WITH 3/8" BOLTS, DOUBLE NUT AND WASHER ASSEMBLY. PROVIDE BOLTS AT 12" ON CENTER OR A MINIMUM OF 3 PER SIDE.
2. ANCHOR GRAVITY VENTILATOR TO CURB WITH 5/16" S.S. SCREWS THROUGH WOOD NAILER AT 12" ON CENTER OR A MINIMUM OF 3 PER SIDE
3. COORDINATE CURB HEIGHT WITH ROOF INSULATION. PROVIDE 12" MINIMUM HEIGHT ABOVE ROOF.
4. INSTALL AS PER ROOF MANUFACTURER'S RECOMMENDATIONS AND FBC - MIAMI DADE NOA NUMBER RATING
5. PROVIDE ROOF CURBS CONFORMING TO PITCHED ROOF AS NECESSARY.

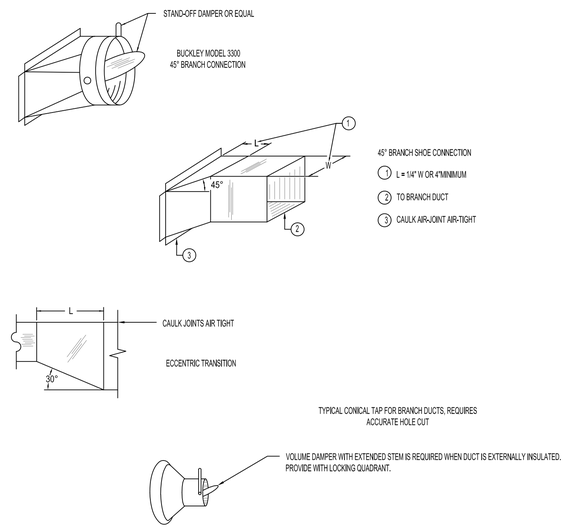
A | NO SCALE | GRAVITY VENTILATOR DETAIL



F | NO SCALE | END-SUCTION PUMP, MAKEUP WATER



D | NO SCALE | VERTICAL AIR HANDLER DIAGRAM



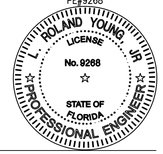
B | NO SCALE | BRANCH TAKE-OFF DETAILS

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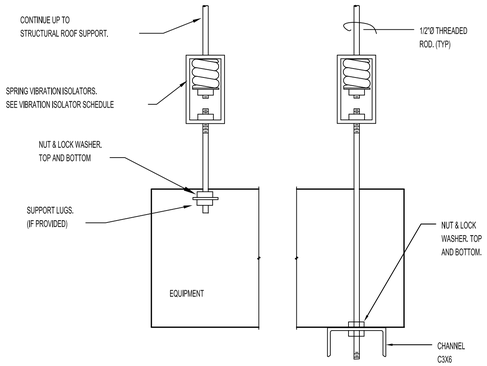
400 CLEVELAND, LLC.
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DETAILS - MECHANICAL

PROJECT NO.: 13270.99

M303

M303 | **DETAILS - MECHANICAL**
N.T.S.

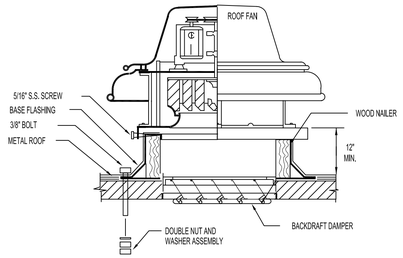


E | NO SCALE | SUSPENDED EQUIPMENT SUPPORT

DETAIL DELETED

12

F | NO SCALE | UPBLAST TUBE EXHAUST FAN DETAIL



NOTES:

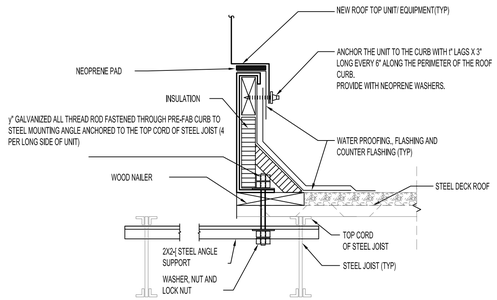
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2. ANCHOR FAN TO CURB WITH 5/16" S.S. SCREWS THROUGH WOOD NAILER.

3. COORDINATE CURB HEIGHT WITH ROOF INSULATION. PROVIDE 12" MINIMUM HEIGHT ABOVE ROOF.

4. INSTALL AS PER ROOF MANUFACTURER'S RECOMMENDATIONS

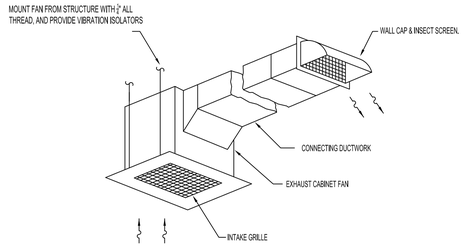
C | NO SCALE | ROOF FAN MOUNTING DETAIL



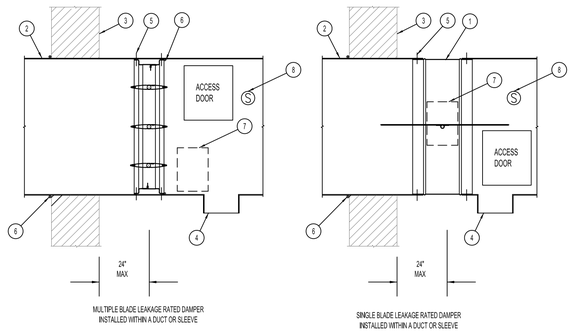
NOTES

1. ANCHOR OR SECURE RTU CURB TO ROOF STRUCTURE WITH ALL THREAD ROD THROUGH BOLTS AS SHOWN.
2. ANCHOR OR SECURE UNIT TO CURB WITH LAG BOLTS THROUGH THE CURB NAILER. PROVIDE A MINIMUM OF THREE BOLTS PER SIDE OF UNIT. COORDINATE WITH STRUCTURAL AND PRODUCT REQUIREMENTS.
3. COORDINATE CURB HEIGHT WITH THERMAL INSULATION AND ROOFING MATERIAL THICKNESS.
4. COORDINATE PROPER WATERPROOFING OF CURB INTERFACE WITH ROOFING MATERIALS PER MANUFACTURES RECOMMENDATIONS.

D | NO SCALE | EQUIPMENT CURB ANCHOR DETAIL



A | NO SCALE | CEILING EXHAUST FAN DETAIL



ITEM.	DESCRIPTION
1.	DAMPER
2.	DUCT (SLEEVE)
3.	SMOKE BARRIER
4.	DUCT OUTLET
5.	#8 MIN FASTENER
6.	CAULKING MATERIAL
7.	OPERATOR/ACTUATOR - 120 VOLT
8.	DUCT MOUNTED SMOKE DETECTOR (WITHIN 5' OF DAMPER). INTERLOCK WITH ACTUATOR AND FIRE ALARM SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

B | NO SCALE | SMOKE DAMPER INSTALLATION DETAIL

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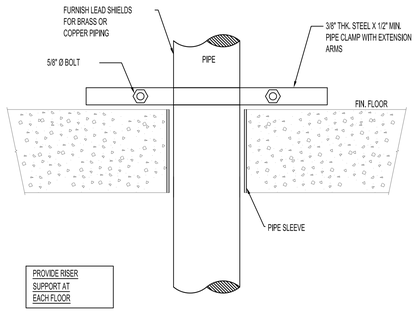
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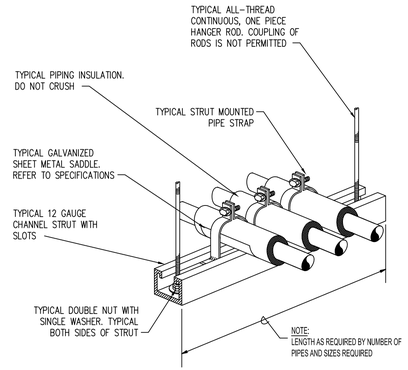
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M304

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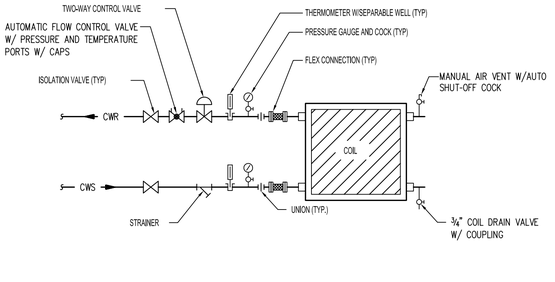
E | NO SCALE | RISER SUPPORT DETAIL



NOTES

1. REFER TO SPECIFICATIONS AND FLOOR PLANS FOR MATERIAL AND SIZES
2. SPECIFIED HANGER ROD, STRUT, NUTS, WASHER, AND PIPE STRAPS SHALL BE OF GALVANIZED PLATED MATERIALS

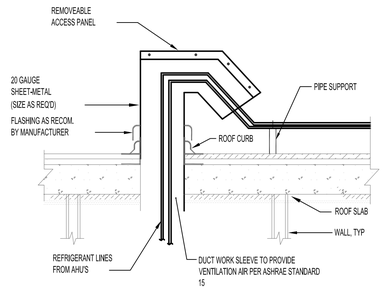
C | NO SCALE | TRAPEZE HANGER



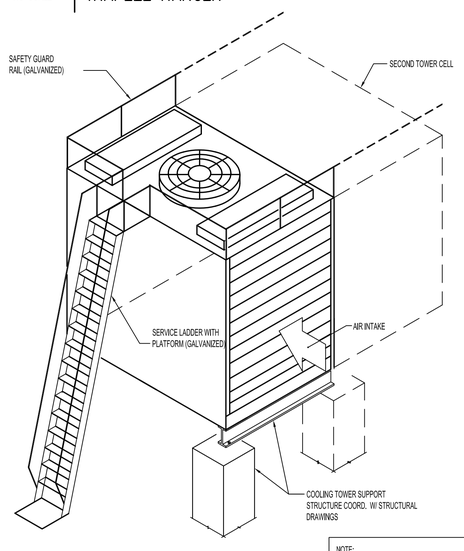
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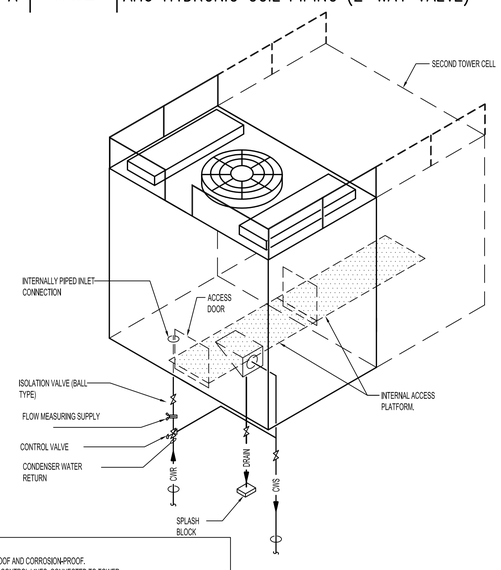
1. LOCATE UNIONS TO ALLOW FOR COIL PULL.
2. PROVIDE COUNTER FLOW TO AIRFLOW.

A | NO SCALE | AHU HYDRONIC COIL PIPING (2-WAY VALVE)



D | NO SCALE | ROOF CURB FOR PIPING PENETRATION DETAIL





NOTE:
1. ALL COMPONENTS LOCATED OUTDOORS SHALL BE WEATHERPROOF AND CORROSION-PROOF.
2. PROVIDE FLEXIBLE CONNECTIONS ON ALL PIPING, AND POWER & CONTROL LINES, CONNECTED TO TOWER.
3. ALL ISOLATION VALVES FOR THIS PROJECT SHALL BE BALL VALVES (STAINLESS STEEL BALL WITH TEFLON SEAT).

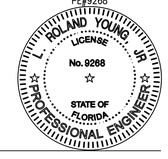
B | NO SCALE | COOLING TOWER DIAGRAMS

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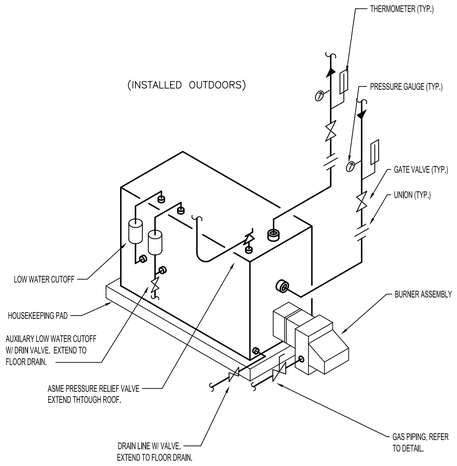
THE SKYVIEW CONDOMINIUMS

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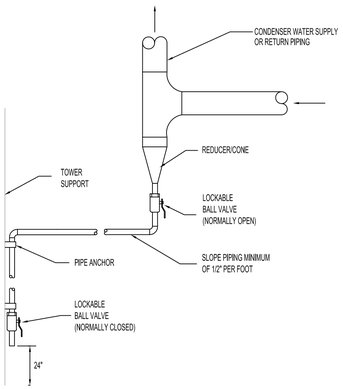
DETAILS - MECHANICAL

PROJECT NO.: 13270.99

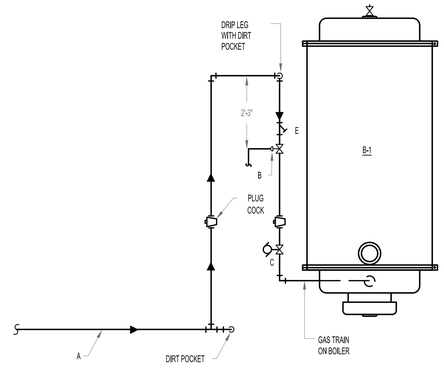
M305



E | NO SCALE | HW BOILER PIPING DIAGRAM

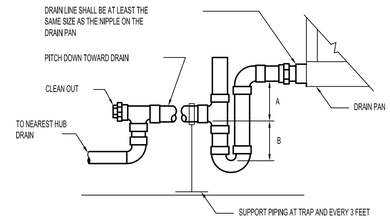


C | NO SCALE | DIRT LEG DIAGRAM



NOTES
A. PIPING-GAS-SEE PLMG DWGS
B. GAS PRESSURE REGULATOR AT BURNER VENT TO SAFE POINT OUTSIDE OF BUILDING.
C. AUTOMATIC PRIMARY GAS SHUT-OFF VALVE
D. MANUAL SHUT-OFF VALVE
E. GAS STRAINER

A | NO SCALE | GAS PIPING CONNECTIONS TO BOILER

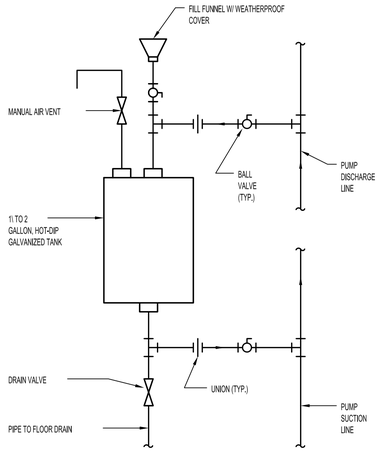


DESIGNER'S NOTE:

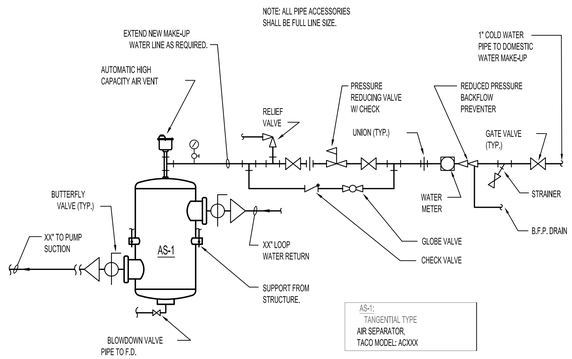
UNIT TYPE	A	B
DRAW THRU	2" (50 MM) PLUS X	X
BLOW THRU	1" (25 MM) MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

F | NO SCALE | AIR HANDLING UNIT DRAIN TRAP DETAIL



D | NO SCALE | CHEMICAL SHOT FEEDER



AS-1:
TANGENTIAL TYPE
AIR SEPARATOR,
TACO MODEL: ACXXX

B | NO SCALE | AIR SEPARATOR/ELIMINATION PIPING DETAIL

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DETAILS - MECHANICAL

PROJECT NO.: 13270.99

M306

M306 | **DETAILS - MECHANICAL**
1/8" = 1'-0"

100% OA ROOFTOP DX UNIT SCHEDULE

PLAN MARK	MANUFACTURER / MODEL NUMBER	TOTAL AIR CFM	OUTSIDE AIR CFM	NOMINAL TONS	EXT. S.P.	NET COOLING CAPACITY						MODULATING HOT GAS RE-HEAT COIL					ELECTRICAL DATA									UNIT WEIGHT (LBS)
						TOT. MBH	SENS. MBH	EAT DB	EAT WB	LAT DB	LAT WB	TOT. MBH	EAT DB	EAT WB	MAX. LAT DB	MAX. LAT WB	NO COMP.	COMP. RLA(EA)	NO. FANS	COND. FLA(EA)	HEATING kW/STEP	LAT (Deg F)	BLOWER FAN FLA	MCA	MOCP SIZE	VOLT/ PHASE	
RTU-1	VALENT - VPR-210-20C-40E-A-5DX	2700	2700	25	2.0	263.1	110.6	91.0	80.0	53.2	53.0	64.5	53.2	53.0	77.3	62.2	2	33.5	3	4.6	40 / 1	85	5.8	149.9	150.0	208/3	2708

NOTES:
1. AIR HANDLING UNIT AND ASSOCIATED EXHAUST FAN(S) SHALL SHUT DOWN UPON FIRE ALARM SIGNAL, DUCT SMOKE DETECTOR SENSING PRODUCTS OF COMBUSTION OR MANUAL ACTUATION OF AHU OR EXHAUST STARTER TO "OFF" POSITION.
2. PROVIDE WITH 30% EFFICIENCY FILTERS IN COMPLIANCE WITH ASHRAE STANDARDS 52.1-1992
3. HEAD PRESSURE CONTROLLER FOR OPERATION IN AMBIENT TEMPERATURES DOWN TO 30° F.
4. EFFICIENCIES SHALL MEET LATEST FBC MECH ENERGY EFFICIENCY FOR BLDG CONSTRUCTION.
5. PROVIDE UNIT(S) WITH FACTORY MOUNTED NON-FUSED DISCONNECT(S). SUPPLY FAN VFD'S
6. PROVIDE UNIT(S) WITH FACTORY MOUNTED OUTDOOR RATED 120V/1PH CONVENIENCE POWER RECEPTACLE.
7. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR COMPRESSOR, FAN, HEATING ELEMENT AND CONTROLS AS PART OF PACKAGED UNIT.
8. AMBIENT DESIGN TEMP IS 95° F
9. PROVIDE A DDC GATEWAY INTERFACE COMMUNICATION MODULE BETWEEN UNIT APPLICATION SPECIFIC CONTROLLER AND BUILDING LEVEL CONTROL SYSTEM.
10. PROVIDE EACH SYSTEM WITH A THERMOSTAT BASIS OF DESIGN: HONEYWELL T7350-D PROGRAMMABLE T-STAT WITH SA DISCHARGE TEMPERATURE SENSOR. PROVIDE SETUP PARAMETERS FOR TEMPERATURE HUMIDITY CONTROL(SENSOR SHALL BE INSTALLED IN THE 9TH FLOOR CORRIDOR.
11. PROVIDE TEMP SENSOR IN 4TH FLOOR CORRIDOR FOR AVERAGING.
12. PROVIDE FULL PERIMETER, SOLID, INSULATED CURB SHALL BE ALL-WELDED, 16 GAUGE GALVANIZED STEEL WITH A 2 X 4 INCH PRESSURE TREATED WOOD NAILER STRIP ON OUTSIDE (14" HIGH MIN).
13. UNIT SHALL BE PROVIDED WITH SIDE DISCHARGE FROM FACTORY. COORDINATE ORIENTATION WITH FLOOR PLANS.
14. PROVIDE SCR CONTROLLED ELECTRIC HEAT SIZED PER THE SCHEDULE ABOVE.
15. PROVIDE UNIT WITH (1) DIGITAL SCROLL COMPRESSOR AND (1) STANDARD SCROLL COMPRESSOR.
16. FACTORY PROVIDED UNIT CONTROLLER SHALL BE PRE-PROGRAMMED WITH SINGLE ZONE VAV CAPABILITIES.

DUCTLESS MINI SPLIT AIR CONDITIONING SYSTEM

PLAN MARK	MODEL NUMBER	UNIT TYPE	FAN DATA			DX COIL DATA				CONDENSING UNIT							FILTER TYPE
			MAX SUPPLY AIR CFM	OUTSIDE AIR CFM	DRIVE TYPE	ENT. DB	ENT. WB	COOLING MBH	HEATING MBH	PLAN MARK	MODEL NUMBER	FAN FLA	M.C.A.	HACR BREAKER	VOLT/ PHASE	SEER	
AH-1	FTXN24KVJU	WALL HUNG	480	0	DIRECT	72.0	61.3	22.0	N/A	CU-1	RKN24KEVJUS	-	12.0	15	208/1	18.0	WASHABLE MESH
AH-2	PKA-A36KA4	WALL HUNG	920	0	DIRECT	72.0	61.3	34.2	38.0	CU-2	PUY-A36NHA4	0.75	25.0	40.0	208/1	14.0	WASHABLE MESH

NOTES:
1. BASIS OF DESIGN: DAIKIN (AH-1/CU-1) , MITSUBISHI (AH-2/CU-2).
2. INCLUDE 20Y REMOTE WALL THERMOSTAT.
3. PROVIDE FIELD INSTALLED CONDENSATE PUMP. INSTALL AS PER MANUFACTURES RECOMMENDATIONS.
4. PROVIDE QUANTITY PER FLOOR PLANS.

FAN SCHEDULE

PLAN MARK	PRODUCT MANUFACTURER	MODEL NO.	TYPE	CFM	STATIC PRESS. IN. WG.	FAN RPM	MOTOR			VOLT/ PHASE	DRIVE TYPE	SONES	ACCESSORIES	INTERLOCKS	NOTES
							RPM	HP	ECM MOTOR						
EF-1	GREENHECK	SP-B80	CEILING CABINET	50	0.3	766	-	54 WATTS	NO	120/1	DIRECT	1.7	TIMER CONTROL & DIMMER	WALL SWITCH	1, 10, 28
EF-2	FANTECH	DBF4XLT	DRYER BOOSTER	170	0.25	-	2800	83 WATTS	NO	120/1	DIRECT	< 1.0	LED INDICATOR LIGHT	PRESSURE SWITCH	27, 29
EF-3	GREENHECK	G-099-A	ROOF MOUNTED	700	0.75	1495	1725	1/4 HP	NO	120/1	DIRECT	9.7	-	RUN CONTINUOUSLY	1, 4, 10, 31
EF-4	GREENHECK	SP-B80	CEILING CABINET	50	0.3	766	-	54 WATTS	NO	120/1	DIRECT	1.7	-	LIGHT SWITCH	1, 5, 10
EF-5	GREENHECK	SP-A200	CEILING CABINET	100	0.3	676	-	48 WATTS	NO	120/1	DIRECT	1.2	-	LIGHT SWITCH	1, 5, 10
EF-6	GREENHECK	SP-A700	CEILING CABINET	600	0.65	1180	-	300 WATTS	NO	120/1	DIRECT	-	-	RTU-1	1, 5, 10
SCF-1, -2	GREENHECK	AX-63-190-0628-A50	HORIZONTAL - AXIAL	8500	1.25	1770	1770	5.0 HP	VFD	208/3	DIRECT	77 dBA	FIRE FIGHTER'S SMOKE CONTROL PANEL		4, 7, 24, 25, 26, 30

NOTES:
1) BACKDRAFT DAMPER
2) THERMOSTAT
3) BIRDSCREEN
4) ROOF CURB
5) DISCONNECT SWITCH
6) DRAIN
7) EQUIPMENT SUPPORTS
8) INLET SCREEN
9) CURB MOUNT ROOF JACK
10) SPEED CONTROLLER
11) WALL SHUTTER
12) VIBRATION ISOLATORS
13) WALL CAP
14) WALL SHUTTER - MOTORIZED
15) WEATHER COVER
16) 2 SPEED / 1 WINDING
17) FILTERS
18) WALL COLLAR
19) FAN GUARD/SCREEN
20) COMPANION FLANGES
21) INSULATED HOUSING FOR SOUND CONTROL
22) HINGED FRAMES
23) SPARK/EXPLOSION PROOF
24) U.L. LISTED (705) FOR SMOKE REMOVAL
25) SPECIAL COATING: AIR DRY PHENOLIC
26) TIE DOWN POINTS
27) UL LISTED FOR USE AS A DRYER BOOSTER FAN
28) COORDINATE FINISH WITH ARCHITECT
29) FACTORY PROVIDED - FC VIBRO DUCT CLAMPS
30) VED RATED MOTOR
31) 24" ROOF CURB - MINIMUM, TOP OF FAN SHALL BE 36" ABOVE TOP OF O/A INTAKE FOR RTU-1 CONTRACTOR SHALL CONFIRM PRIOR TO ORDERING.

BOILER SCHEDULE

PLAN MARK	MANUFACTURER / MODEL NUMBER	INPUT MBH	OUTPUT MBH	THERMAL EFFICIENCY	OPERATING PRESSURE	FUEL SOURCE	CONNECTION SIZE	CAPACITY CONTROL TYPE	ELECTRICAL		WATER DATA			FLUE CONN. SIZE	PHYSICAL DIMENSIONS	
									PUMP HP	VOLT/ PHASE	EWT / LWT	MAX FLOW GPM	WATER P.D.		L x W x H INCHES	WEIGHT LBS.
B-1	LOCHINVAR / COPPER-FIN-2	750.0	638.0	85 %	160 PSI	NAT. GAS	1-1/4"Ø	X	X	120/1/60	120° / 160°	32 GPM	2.3'	8"Ø / TYPE-B AL29-4C S/S	64" x 22.25" x 29"	543

NOTES:
1. PROVIDE WITH AUTOMATIC SHUTOFF VALVE. PROVIDE ANCHOR BOLTS INTO PAD AS RECOMMENDED BY MANUFACTURER.
2. PROVIDE WITH PRESSURE REGULATOR TO REDUCE HIGH PRESSURE GAS FROM MAIN TO MANUFACTURE RECOMMENDED INLET PRESSURE TO BOILER.
3. PROVIDE PUMP WITH INTEGRAL CIRCULATING PUMP AND CONTROLS.
4. PROVIDE START-UP SERVICE BY MANUFACTURER'S REPRESENTATIVE.
5. UNIT SHALL BE CAPABLE OF PROPORTIONAL FIRING UP TO 4:1 TURNDOWN.
6. BOILER SHALL PROVIDED WITH ALL OPTIONS FOR EXTERIOR INSTALLATION.

ROOF MOUNTED GRAVITY VENTILATORS

PLAN MARK	MODEL TYPE	CFM	△ P IN. WG.	ROOF OPENING	CURB HEIGHT INCHES
GRV-1	H-GRSR	150	.003	12x12	12

NOTES:
1. MODEL TYPES AND VENTILATOR SELECTIONS ARE BASED ON GREENHECK SPUN ALUMINUM GRAVITY INTAKE AND RELIEF. SEE SPECIFICATIONS FOR ALTERNATE MANUFACTURERS
2. ALL VENTILATORS SHALL BE PROVIDED WITH BIRD SCREEN
3. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH FBC - MIAMI DADE NOA NUMBER RATING FOR MINIMUM PROJECT WIND LOAD WIND LOAD.

PLATE / FRAME HEAT EXCHANGER

PLAN MARK	-	HX-1	
MANUFACTURER / MODEL	-	GRAHAM / GP258-1500L-197	
		HOT SIDE CLOSED LOOP	HOT SIDE OPEN LOOP
WORKING FLUIDS	-	WATER	WATER
FLOW RATE	GPM	600	600
MAX. ALLOWED PRESSURE DROP	PSIG	5.0	5.0
ENTERING FLUID TEMP.	°F	100°	85°
LEAVING FLUID TEMP.	°F	90°	95°
# OF PASSES / PLATE PATTERN	-	1 / (9H + 89M)	1 / (9H + 89M)
INLET / OUTLET DIAMETER	IN.	4"Ø	4"Ø
INLET / OUTLET MATERIAL	-	STEEL	
PLATE MATERIAL	-	304 SS	
GASKET MATERIAL	-	NBR	
DESIGN / TEST PRESSURE	PSIG	150 / 195	
TOTAL HEAT EXCHANGED	MBH	2974.7	
DESIGN TEMPERATURES	°F	230°	
ESTIMATED WEIGHT - EMPTY / FLOODED	LBS.	1375 / 1640	
UNIT LOCATION	-	ROOF	
AUXILIARY CONNECTIONS	-	-	

NOTES:
1. PROVIDE WITH WEATHER PROOF SHROUD FOR HX.
2. PROVIDE FULL MANUAL BYPASS AROUND BOTH HOT AND COLD SIDES.

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SCHEDULES - MECHANICAL

PROJECT NO.: 13270.99

M401

COOLING TOWER SCHEDULE

PLAN MARK	MANUFACTURER / MODEL	TOWER TYPE	TOWER MATERIAL	OPERAT. WEIGHT-LB	FLOW GPM	MAX. HEAD	WATER TEMP. ENT.	WATER TEMP. LVG.	AMBIENT WB	HEAT REJECTION	DRIVE TYPE	FAN MOTOR DATA HP	FAN MOTOR DATA RPM	VOLT/ PHASE	PHYSICAL DIMENSIONS L x W x H
CT-1	PROTEC - PCT-175	COUNTER FLOW	FRP	4312	365	11'	95°	85°	79°	122 TONS	DIRECT	5.0	"	208/3/60	131'Ø x 130"
CT-2	PROTEC - PCT-175	COUNTER FLOW	FRP	4312	365	11'	95°	85°	79°	122 TONS	DIRECT	5.0	"	208/3/60	131'Ø x 130"

NOTES:

1. COOLING TOWER SELECTION BASED ON PROTEC. REFER TO SPECIFICATIONS FOR LIST OF APPROVED EQUIVALENT MANUFACTURERS.
2. PROVIDE VFD FOR EACH COOLING TOWER FAN.
3. PROVIDE SINGLE BOTTOM OUTLET PIPING CONNECTION (INLET/DISCHARGE/EQUALIZATION LINE/MAKEUP WATER).
4. PROVIDE WITH BOTTOM OUTLET SUMP
5. PROVIDE VIBRATION LIMIT SWITCH WITH EMS "STATUS INTERFACE AND MANUAL RESET.

PUMP SCHEDULE

MARK	BASIS OF DESIGN	MODEL NO.	FLOW GPM	HEAD FT	TYPE	IMPELLAR SIZE (DIA.)	NPSHR FT.	% EFF.	VFD YES/NO	TEFC MOTOR HP	MOTOR RPM	VOLTS / PHASE	SUCT. SIZE	DISCH. SIZE	FRAME SIZE
CTP-1,-2	WEINMAN	4KL-181	600	65	0500-END SUCTION	9,5	5.97	85	NO	15	1800	208 / 3	5"	4"	254T
CWP-1,-2	WEINMAN	4KL-181	600	80	0500-END SUCTION	12,0	9,15	80	YES	20	1800	208 / 3	5"	4"	256T

NOTES:

1. PROVIDE PREMIUM EFFICIENT TEFC OR TEAO PUMP MOTORS AND PIPING TRAIN WITH ISOLATION VALVES, CHECK VALVE, SUCTION STRAINER, AND PRESSURE GAUGES.
2. PROVIDE START-UP SERVICE BY MANUFACTURER'S REPRESENTATIVE.
3. CONTRACTOR SHALL PROVIDE PROVISIONS FOR REMOVAL OF PUMP IMPELLER AND RETURNING IMPELLER TO PUMP MANUFACTURER FOR SHAVING PURPOSES. CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLATION OF PUMP IMPELLER AND BRINGING PUMP BACK ON LINE.

WATER SOURCE HEAT PUMP UNIT SCHEDULE

PLAN MARK	MANUFACTURER / MODEL	UNIT ORIENTATION	FAN DATA SUPPLY AIR @.06" MED. SPEED	FAN DATA OUTSIDE AIR CFM	FAN DATA DRIVE TYPE	FAN DATA FAN SIZE F.L.A.	FAN DATA FAN SPEED	FAN DATA VOLT/ PHASE	DX COIL DATA ENT. DB	DX COIL DATA ENT. WB	DX COIL DATA SENSIBLE CAPACITY MBH	DX COIL DATA TOTAL CAPACITY MBH	DX COIL DATA HEAT CAPACITY MBH	CONDENSER WATER COOLING EWT / LWT	CONDENSER WATER HEATING EWT / LWT	CONDENSER WATER COND. WATER FLOW GPM	CONDENSER WATER COND' COIL P.D. FT. HEAD	ELECTRICAL DATA M.C.A.	ELECTRICAL DATA UNIT MOCP	ELECTRICAL DATA EER	FILTER TYPE
WSHP - A	FHP - LV018	VERTICAL	730 CFM	0	DIRECT	1.8	MED.	208/1	75.0	63.0	13.9	18.3	23.4	90° / 100°	70° / 60°	4.5	8.7'	8.3	15	13.0	1" PLEATED
WSHP - B	FHP - LV024	VERTICAL	770 CFM	0	DIRECT	1.8	MED.	208/1	75.0	63.0	16.5	21.0	27.5	90° / 100°	70° / 60°	6.0	12.8'	9.2	15	11.8	1" PLEATED
WSHP - C	FHP - LV030	VERTICAL	750 CFM	0	DIRECT	1.8	MED.	208/1	75.0	63.0	22.6	28.5	34.4	90° / 100°	70° / 60°	7.5	13.8'	11.7	20	13.5	1" PLEATED
WSHP - D	FHP - LV036	VERTICAL	1220 CFM	0	DIRECT	4.4	MED.	208/1	75.0	63.0	27.0	34.5	43.7	90° / 100°	70° / 60°	9.0	13.0'	17.4	30	12.8	1" PLEATED
WSHP - E	FHP - LV042	VERTICAL	1390 CFM	0	DIRECT	4.4	MED.	208/1	75.0	63.0	29.4	37.5	49.9	90° / 100°	70° / 60°	10.5	16.4'	18.0	35	11.3	1" PLEATED
WSHP - F	FHP - LV048	VERTICAL	1580 CFM	0	DIRECT	4.4	MED.	208/1	75.0	63.0	33.7	43.5	57.1	90° / 100°	70° / 60°	12.0	5.9'	20.1	35	11.8	1" PLEATED
WSHP - G	FHP - LV009	VERTICAL	300 CFM	0	DIRECT	0.96	MED.	208/1	75.0	63.0	7.0	7.7	10.5	90° / 100°	70° / 60°	4.5	3.7'	4.4	15	11.2	1" PLEATED
WSHP - H	FHP - LV030	HORIZONTAL	750 CFM	0	DIRECT	1.8	MED.	208/1	75.0	63.0	22.6	28.5	34.4	90° / 100°	70° / 60°	7.5	13.8'	4.4	20	13.5	1" PLEATED
WSHP - I	FHP - LV009	VERTICAL	350 CFM	0	DIRECT	0.96	MED.	208/1	75.0	63.0	13.9	8.2	9.9	90° / 100°	70° / 60°	2.7	8.7'	11.7	15.0	12.4	1" PLEATED

NOTES:

1. BASIS OF DESIGN: FLORIDA HEAT PUMP (FHP)
2. PROVIDE EACH UNIT WITH 1/2" CLOSED CELL FOAM INSULATION AND COMPRESSOR BLANKETS FOR ALL UNITS THAT ARE TO BE INSTALLED IN TENANT UNITS.
3. COORDINATE UNIT / DUCT ORIENTATION WITH FLOOR PLANS.
4. PROVIDE 7-DAY PROGRAMMABLE T-STAT WITH LCD DISPLAY.
5. R-410a REFRIGERANT CIRCUIT.
6. PROVIDE FACTORY INSTALLED, UNIT MOUNTED 2-POSTION CONTROL VALVE TO BE INTERLOCKED TO CLOSE WHEN UNIT IS NOT ENERGIZED.
7. INSTALL UNITS ON A 6" HIGH PRE-FABRICATED STAND FOR EASY REMOVAL AND SERVICE, PROVIDE MIN. 1/2" THICK NEOPRENE PAD IN BETWEEN UNIT AND STAND.
8. PROVIDE FLEXIBLE HOSE KIT WITH AUTOMATIC FLOW CONTROL VALVE, B.O.D. NEXUS + HOSE PACK + AYH.
9. AC EQUIPMENT SIZES ARE BASED OFF OF TYPICAL RESIDENTIAL USE. ADDITIONAL SENSIBLE & LATENT HEAT GAINS CAUSED BY LONG EXPOSURE TO THE EXTERIOR VIA OPENED SLIDING DOORS, WILL AFFECT THE INTERIOR ENVIRONMENT NEGATIVELY.
10. PROVIDE UNITS WITH A SINGLE POINT.

RECIRCULATING AIR FILTRATION UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	FILTER	MAX CFM	ELECTRICAL DATA FAN SIZE HP	ELECTRICAL DATA VOLT/ PHASE	ELECTRICAL DATA CONTROLS	DIMENSIONS L X W X H
AFU-1	DYNAMIC - AIR CLEANER	DYNAMIC - AIR KING - 25	SUPER V-BANK	2500	1/2	120/1	24 VAC	24" X 59" X 24"

NOTES:
1. PROVIDE OCCUPANCY SENSOR FOR UNIT TO BE INTERLOCKED WITH.
2. UNIT SHALL COME WITH INTEGRAL TRANSFORMER.

EXPANSION TANK SCHEDULE

PLAN MARK	MANUFACTURER / MODEL	SYSTEM	SYSTEM TEMP. MIN	SYSTEM TEMP. MAX	TANK DIA.	TANK HEGHT	TANK VOL. GAL.	ACCEPT VOL. GAL.
ET-1	AMTROL-EXTROL-(200-L)	CONDENSER LOOP	60	100	24"	38"	53	53

NOTES

1. BASIS OF DESIGN: FLOOR-MOUNTED, BLADDER TYPE

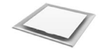
AIR SEPARATOR SCHEDULE

PLAN MARK	MANUFACTURER / MODEL	MAXIMUM PRESSURE DROP	PIPE SIZE	SERVICE
AS-1	AMTROL - 6 - AS	1.0"	6"	CLOSED LOOP

NOTES

1. ASME RATED TO 125 PSIG.

AIR DISTRIBUTION SCHEDULE

SYMBOL/TAG	CFM	NECK SIZE	FACE SIZE LENGTH	DESCRIPTION	IMAGE
A (XXX	000-110 111-210 211-375 375-620 621-750 751-980	6Ø 8Ø 10Ø 12Ø 14Ø 16Ø	24x24 24x24 24x24 24x24 24x24 24x24	BASIS OF DESIGN: TITUS - OMNI COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: YES BACK PAN SIZE: 18x18 USE 12"X12" MODULE WITH 6" NECK FOR TENANT FLOOR CORE AREAS.	
B (XXX OR Z	000-110 111-220 221-350 351-530 531-730 731-970 971-1240 1241-1540 1541-1880	6x6 8x8 10x10 12x12 14x14 16x16 18x18 20x20 22x22		BASIS OF DESIGN: TITUS - 350FL COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: YES LOUVERED FOR GRILLES BEING USED TO TRANSFER AIR IN LIEU OF A DUCTED RETURN, THE DUCT SIZE MUST BE EQUAL TO 1.5xDIAMETER OF THE SUPPLY DUCT SERVING THAT SPACE.	
C (XXX	00-050 050-220 221-270 271-330 331-380 381-450 451-500 501-540 541-550	8x4 10x6 12X6 14X6 16X6 18X6 22X6 18X8 30X6		BASIS OF DESIGN: TITUS - 300FL COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: YES DOUBLE DEFLECTION USE 30X6 FOR FITNESS ROOM	
XX E DG	ALL	-	24x20	BASIS OF DESIGN: PRICE ATG1 COLOR: WHITE MATERIAL: ALUMINUM CORE AREA: 3.0 SF	
E (XXX	000-110 111-160	6Ø 8Ø	18X18 18X18	BASIS OF DESIGN: TITUS - TDC-AA COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: YES SQUARE TO ROUND TRANSITION (SR)	
F (XXX)	5 FT LONG PLENUM WITH 6"Ø INLET (FOR DEVICES UP TO 125 CFM) 8"Ø INLET 55 CFM/FT			BASIS OF DESIGN: TITUS - ML-38 COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: NO (2) - 3/4" SLOT WITH PATTERN CONTROLLER. PROVIDE WITH INSULATED PLENUM AND CONCEALED FRAME.	
G (XXX	0 - 175 176 - 300	18 X 4 24 X 4	19.75 X 5.75 25.75 X 5.75	BASIS OF DESIGN: TITUS - 300FL COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: YES DOUBLE DEFLECTION, ADJUST TO (0°)	

NOTES:

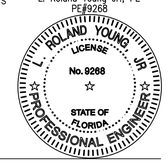
1. AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH BORDER TYPE 3 FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER TYPE 1 FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES.
2. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24"x24" GRID ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN. SECURE EACH DEVICE TO CEILING GRID WITH FIELD-FABRICATED SUPPORTS.
3. ALL SUPPLY AND RETURN AIR DEVICES LOCATED IN CONDO UNITS SHALL BE PROVIDED WITH INTEGRAL VOLUME DAMPERS THAT ARE ACCESSIBLE FROM FACE OF AIR DEVICE.

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-3-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.

No.	Date	Revisions / Submissions	D.	CK.
13	02/22/2016	PERMIT REVISIONS		
12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
2	03/16/2015	PERMIT REVIEW COMMENTS		
1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

L. Roland Young Jr., PE PE#9268



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400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

SCHEDULES - MECHANICAL

PROJECT NO.: 13270.99

M402

M402 | **SCHEDULES - MECHANICAL**
N.T.S.

VRF AIRHANDLING UNIT SCHEDULE

	System Tag	CU-V1	CU-V1	CU-V1	CU-V1	CU-V1	CU-V1	CU-V1	CU-V1	CU-V1	CU-V1	CU-V2	CU-V2	CU-V2	CU-V2	CU-V2	CU-V2	CU-V2	CU-V2	OAU-1
	Tag Reference	AHU-10-2	AHU-10-3	AHU-10-4	AHU-10-5	AHU-10-6	AHU-10-7	AHU-10-8	AHU-10-9	AHU-10-10	AHU-10-11	AHU-9-1	AHU-9-2	AHU-9-3	AHU-9-4	AHU-9-5	AHU-9-6	AHU-9-7	AHU-8-1	OAU-1 / (AHU-10-1)
	M-Net Address	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Model	PVFY-P12NAMU-E	PVFY-P24NAMU-E	PKFY-P12NHMU-E2	PKFY-P12NHMU-E2	PVFY-P30NAMU-E	PKFY-P12NHMU-E2	PVFY-P24NAMU-E	PVFY-P18NAMU-E	PVFY-P24NAMU-E	PVFY-P24NAMU-E	PKFY-P12NHMU-E2	PVFY-P24NAMU-E	PVFY-P30NAMU-E	PVFY-P36NAMU-E	PVFY-P30NAMU-E	PVFY-P18NAMU-E	PVFY-P12NAMU-E	PVFY-P24NAMU-E	PEFY-AF1200CFMR
	Type	Vertical type	Vertical type	Wall mounted type	Wall mounted type	Vertical type	Wall mounted type	Vertical type	Vertical type	Vertical type	Vertical type	Wall mounted type	Vertical type	Vertical type	Vertical type	Vertical type	Vertical type	Vertical type	Vertical type	DOAS ceiling (concealed)
	Nominal Cooling Capacity (BTU/h)	12,000.0	24,000.0	12,000.0	12,000.0	30,000.0	12,000.0	24,000.0	18,000.0	24,000.0	24,000.0	12,000.0	24,000.0	30,000.0	36,000.0	30,000.0	18,000.0	12,000.0	24,000.0	112,000.0
	Nominal Heating Capacity (BTU/h)	13,500.0	27,000.0	13,500.0	13,500.0	34,000.0	13,500.0	27,000.0	20,000.0	27,000.0	27,000.0	13,500.0	27,000.0	34,000.0	40,000.0	34,000.0	20,000.0	13,500.0	27,000.0	61,400.0
Design Conditions	Cooling Design Entering Temp DB/WB (°F)	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	75.0/63.0	85.0/80.0
	Heating Design Entering Temp DB/WB (°F)	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	40
	Cooling Diversity Full/Partial (See Note 5, 6)	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND
	Heating Diversity Full/Partial (See Note 5, 6)	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND	PARTIAL DEMAND
	Refrig Pipe Dim Liquid/Suction (inch)	1/4 / 1/2	3/8 / 5/8	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	1/4 / 1/2	3/8 / 5/8	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	3/8 / 7/8
Performance Data	Cooling Total Capacity (BTU/h)	10,594.2	21,153.4	10,594.2	10,582.5	27,444.7	10,831.6	22,042.1	16,121.5	22,005.0	21,519.2	10,591.6	21,148.3	26,845.7	32,161.6	27,341.7	16,377.6	10,585.8	21,374.5	114,511
	Cooling Sensible Capacity (BTU/h)	8,996.1	16,250.7	8,304.0	8,299.1	20,951.4	8,405.8	16,636.8	12,982.8	16,620.6	16,409.2	8,302.9	16,248.6	20,692.2	24,620.8	20,906.7	13,091.2	8,992.7	16,346.4	53,179
	Heating Capacity (BTU/h)	13,096.5	26,176.2	13,096.5	13,090.9	33,445.8	13,210.1	26,601.1	19,511.1	26,583.4	26,351.4	13,093.7	26,170.7	33,154.5	38,980.0	33,394.2	19,630.7	13,090.9	26,279.5	96,347
	Estimated Cooling Coil LAT (°F)	54.0	54.3	56.2	56.2	52.6	56.0	53.8	54.2	53.8	54.1	56.2	54.3	52.9	54.0	52.6	54.1	54.0	54.2	42.8
	Estimated Heating Coil LAT (°F)	100.4	103.0	99.4	99.4	105.4	99.7	103.5	100.9	103.5	103.2	99.4	103.0	105.1	103.0	105.4	101.1	100.3	103.1	91
Fan / Water Flow Data	Peak Fan Airflow (cfm)	400	735	413	413	875	413	735	585	735	735	413	735	875	1095	875	585	400	735	1201
	Max Fan ESP Setting 208V/230V (IN WG)	0.3/0.5/0.8	0.3/0.5/0.8	----	----	0.3/0.5/0.8	----	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	----	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.8/0.96
	Sound Pressure Per Fan Speed 208V/230V (dBA)	27-31-35	30-34-38	34-39-43	34-39-43	32-36-40	34-39-43	30-34-38	28-32-36	30-34-38	30-34-38	34-39-43	30-34-38	32-36-40	35-39-43	32-36-40	28-32-36	27-31-35	30-34-38	36-38-41/39-41-43
Electrical Data	Voltage / Phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase
	Power Cooling 208V/230V (kW)	0.8	0.18	0.03	0.03	0.21	0.03	0.18	0.13	0.18	0.18	0.03	0.18	0.21	0.34	0.21	0.13	0.8	0.18	0.66
	Power Heating 208V/230V (kW)	0.8	0.18	0.03	0.03	0.21	0.03	0.18	0.13	0.18	0.18	0.03	0.18	0.21	0.34	0.21	0.13	0.8	0.18	0.66
	Electrical MCA/MFS	1/0.88/15	2/1.75/15	0.38(208V)/0.38(230V)/15	0.38(208V)/0.38(230V)/15	2.5/2.13/15	0.38(208V)/0.38(230V)/15	2/1.75/15	1.5/1.38/15	2/1.75/15	2/1.75/15	0.38(208V)/0.38(230V)/15	2/1.75/15	2.5/2.13/15	3.75/3.38/15	2.5/2.13/15	1.5/1.38/15	1/0.88/15	2/1.75/15	3.99/4.31/15
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6

1. NOTES & OPTIONS (AIR HANDLER SCHEDULE):
2. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
3. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
4. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES
5. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
6. 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.
7. IT IS RECOMMENDED TO ALWAYS BASE HEATING CORRECTED CAPACITY ON FULL DEMAND.

VRF SYSTEM - SCOPE & WARRANTY NOTES

1. A VARIABLE REFRIGERANT FLOW, (VRF) SYSTEM HAS BEEN DESIGNED FOR THE PENTHOUSE "SHELL SPACE" WHICH INCLUDES, OR PARTIALLY INCLUDES THE FOLLOWING FLOORS: 2ND, 8TH, 9TH, 10TH, & ROOF. DUE TO THE LACK OF PROPOSED DATA FOR PENTHOUSE "SHELL SPACE", SOME AIR-HANDLERS HAVE BEEN SELECTED BASED ON THE HEAT GAINS CALCULATED SIMILAR SPACES WITH MATCHING EXPOSURES.
2. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT, PIPING & CONTROLS ASSOCIATED WITH THE VRF SYSTEM TO BE INSTALLED WITHIN THE "SHELL SPACE". THE "TENANT FIT-OUT" CONTRACT DOCUMENTS WILL BE BID & PERMITTED SEPARATELY. THE "TENANT FIT-OUT" SCOPE WILL INCLUDE DUCTING TO AND FROM EACH AIR-HANDLER, INSTALLATION OF AIR DISTRIBUTION AND OTHER VENTILATION ITEMS. SYSTEM START-UP & COMMISSIONING WILL BE CONDUCTED FOLLOWING THE COMPLETION OF THE "TENANT FIT-OUT" SCOPE. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ENGAGEMENT THROUGHOUT BOTH PHASES OF THIS PROJECT UNTIL THE SYSTEM START-UP HAS BEEN COMPLETED, THE SYSTEM COMMISSIONING HAS BEEN APPROVED BY THE MANUFACTURER AND THE (10) YEAR FACTORY WARRANTY HAS BEGUN. ADDITIONAL "NON-FACTORY" WARRANTIES SHALL BE PROVIDED AS MANDATED IN OTHER PROJECT REQUIREMENTS.
3. PRIOR TO PROCUREMENT OF THE VRF SYSTEM AS SPECIFIED IN THESE CONTRACT DOCUMENTS, THIS MECHANICAL CONTRACTOR SHALL BE RECOGNIZED AS A CERTIFIED INSTALLER BY THE VRF - EQUIPMENT MANUFACTURER (MITSUBISHI) AS REQUIRED TO SECURE A TEN YEAR LIMITED WARRANTY. SEE MECHANICAL SPECIFICATIONS FOR DETAILS AND ADDITIONAL WARRANTY REQUIREMENTS. THE MANUFACTURER'S TRAINING CERTIFICATION SHALL BE INCLUDED FOR A/E REVIEW ALONG WITH THE EQUIPMENT SHOP DRAWING SUBMITTAL. PRODUCT TRAINING SHALL BE PROVIDED FOR THE ACTUAL INSTALLING PERSONNEL TO ENSURE PROPER SYSTEM INSTALLATION.

VIBRATION ISOLATION EQUIPMENT

13

EQUIPMENT	PRODUCT DESCRIPTION	MANUFACTURER	MODEL	QUANTITY	MAX LOAD	NOMINAL DEFLECTION	SPRING RATE	SPRING COLOR CODE	INSTALLATION NOTES
COOLING TOWERS CT-1 / CT-2	SEISMICALLY RESTRAINED SPRING VIBRATION ISOLATORS	VMC (AMBER BOOTH)	MS-3C-1165N	(5) ISOLATORS PER TOWER	1165 LBS.	3.0"	517 (LB/IN)	DARK PURPLE / RED	PROVIDE A STRUCTURALLY ENGINEERED GALVANIZED STEEL BASE RAIL SYSTEM TO BE INSTALLED BETWEEN CONCRETE PIERS AND SPRING ISOLATORS.
COOLING TOWER PUMPS CTP-1 / CTP-2	INERTIA BASE W/ SEISMICALLY RESTRAINED SPRING VIBRATION ISOLATORS	VMC (AMBER BOOTH)	CPF	(4) ISOLATORS PER INERTIA BASE	COORD. WITH PUMP SHOP DWGS.	2.0"	INFORMATION TO BE CALCULATED BY MANUFACTURER AND INCLUDED IN SHOP DWG. FOR REVIEW		INERTIA BASE DIMENSIONS SHALL BE COORDINATED WITH ACTUAL STRUCTURAL SUPPORT PIER LOCATIONS.
			AMSR-2D	(1) INERTIA BASE PER PUMP					
VRF MINI-SPLIT CONDENSING UNITS	SEISMICALLY RESTRAINED SPRING VIBRATION ISOLATORS	VMC (AMBER BOOTH)	AMSR-2D-230	(4) ISOLATORS PER UNIT	230 LBS.	2.0"	100 (LB/IN)	GREEN	SPRINGS ISOLATORS TO BE INSTALLED ON ALUMA-STAND

NOTES:

1. BASIS OF DESIGN: VMC
2. PROVIDE PROJECT SPECIFIC, ENGINEERED SHOP DRAWINGS FOR EACH SYSTEM. SHOP DRAWINGS SHALL INCLUDE SIGNED AND SEALED WIND RATINGS AND CERTIFICATIONS.
3. INSTALLATION METHODS AND AND BUILDING FASTENING DETAILS SHALL BE APPROVED BY STRUCTURAL ENGINEER, PRODUCT MANUFACTURER AND A/E TEAM.
4. FINAL SPRING SIZES, DEFLECTION RATES AND ISOLATOR QUANTITIES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
5. TO REQUEST INFORMATION REGARDING THE - EQUIPMENT SCHEDULED ABOVE AND THE ASSOCIATED INSTALLATION REQUIREMENTS CONTACT PROCESS AIR (TAMPA, FI) PHONE: (813) 622-7000.

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

	System Tag	CU-V1	CU-V2	OAU-1
	Tag Reference	Main BC-1	BC-2	OAU-BC-1
Nominal Data	M-Net Address	53	63	70
	Model Number	CMB-P1016NU-HA	CMB-P1016NU-HA	CMB-P106NU-G
	Type (double / Main / Sub)	Main	Main	Single
	Number of Ports	16	16	6
	Connected Capacity to BC	192,000.0	186,000.0	112,000.0
Electrical Data	Voltage / Phase	208/230V / 1-phase	208/230V / 1-phase	208/230V / 1-phase
	Power Cooling 208V/230V (kW)	0.274(208V)/0.353(230V)	0.274(208V)/0.353(230V)	0.086
	Power Heating 208V/230V (kW)	0.137(208V)/0.177(230V)	0.137(208V)/0.177(230V)	0.04
	MCA 208/230	1.65 / 1.93	1.65 / 1.93	0.52 / 0.47
Notes / Options	Applicable System Notes - See Notes Below	1, 2	1, 2	1, 2

NOTES & OPTIONS (BC CONTROLLER SCHEDULE):

1. INCLUDE DIAMONDBACK BALL VALVES BV-SERIES, 700PSIG WORKING PRESSURE, FULL PORT, 410A RATED.
2. CONNECTED CAPACITY TO BC SHOULD NOT EXCEED 189,000 BTU/H FOR DOUBLE BCS AND 126,000 BTU/H FOR SUB BCS.

VRF CONDENSING UNIT SCHEDULE

	System Tag	CU-V1	CU-V2	OAU-1
	Tag Reference	CU-V1	CU-V2	OAU-CU-1
Nominal Data	M-Net Address	51, 52	61, 62	69
	Model Number	PURY-P168TSKMU-A-BS	PURY-P168TSKMU-A-BS	PURY-P120TKMU-A-BS
	Modules	P96, P72	P96, P72	P120
	Nominal Cooling Capacity (BTU/h)	168,000.0	168,000.0	120,000.0
	Nominal Heating Capacity (BTU/h)	188,000.0	188,000.0	135,000.0
	Cooling Efficiency IEER/EER	19.1 / 12.9	19.1 / 12.9	18.6 / 11.7
	Heating COP @ 47°F	3.52	3.52	0.0
	Nom System Connected Capacity (% of NOM)	114.3%	110.7%	100.0%
Design Conditions	Design Cooling Outdoor Temp DB (°F)	95.0	95.0	95.0
	Design Heating Outdoor Temp WB (°F)	43.0	43.0	43.0
	Max Pipe Length from BC or 1st Joint (feet)	93.9	80.9	0.0
	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	7/8 / 1 1/8	7/8 / 1 1/8	3/4 / 1 1/8
Performance Data	Corrected Cooling Total Capacity (BTU/h)	172,888.3	166,426.7	99,252.4
	Corrected Heating Capacity (BTU/h)	211,163.1	203,794.1	-96,346.6
	Sound Pressure (dBA)	61	61	60
Compressor Data	Compressor Type	SCROLL	SCROLL	SCROLL
	Compressor Quantity	2	2	1
Electrical Data	Preliminary Added Field Charge (See Note 5)	53.3	54.0	27.4
	Voltage / Phase	208V / 3-phase 3-wire	208V / 3-phase 3-wire	208V / 3-phase 3-wire
	MCA 208V	34, 23	34, 23	23
	MOCP	40, 30	40, 30	30
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

NOTES & OPTIONS (CONDENSING UNIT SCHEDULE):

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.
6. INCLUDE LOW AMBIENT HOOD KIT WITH ASSOCIATED WIND BAFFLES FOR 100% LOW AMBIENT COOLING DOWN TO MINUS (-) 10°F.

NEW SHEET CREATED FOR REV #12 — 12

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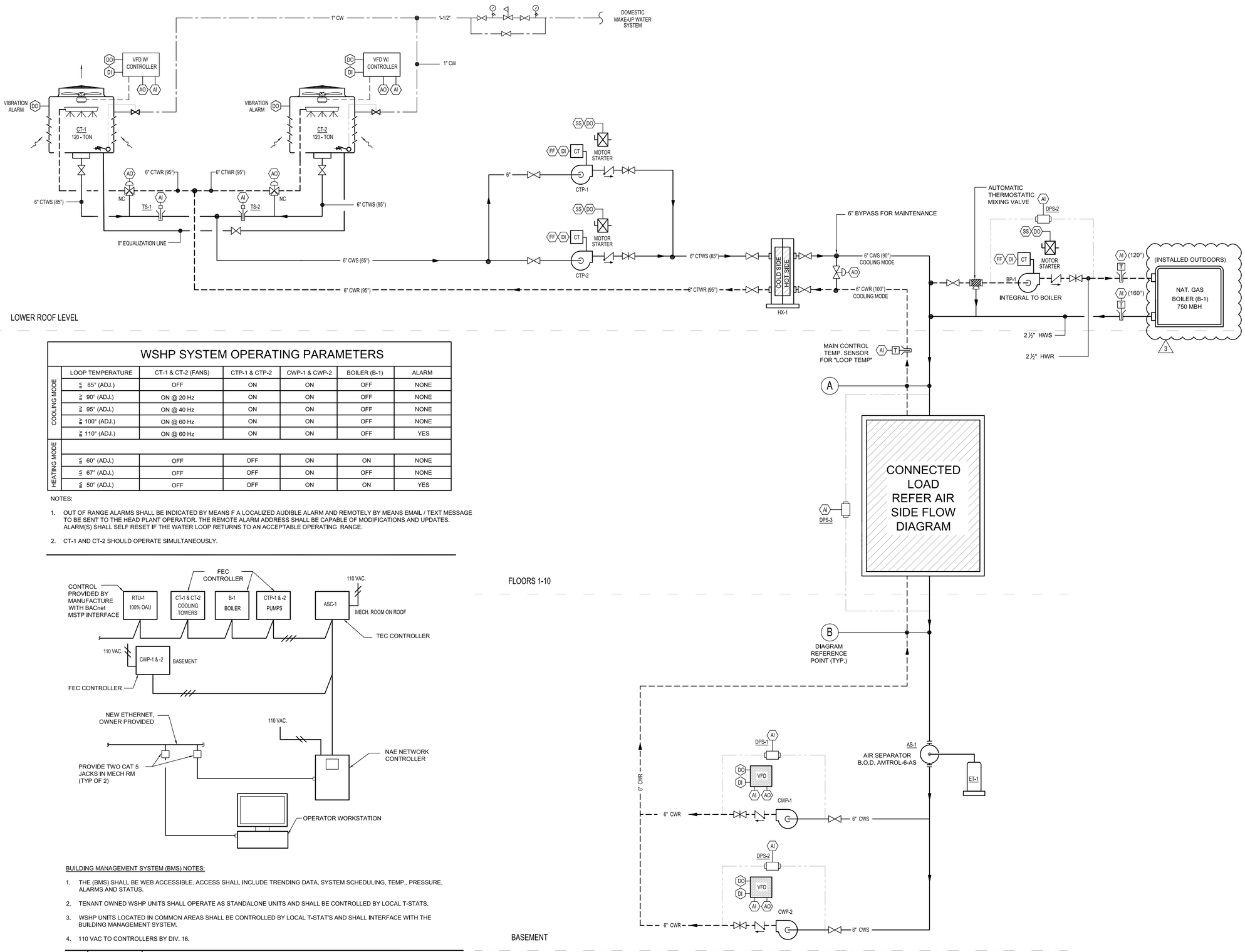
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SCHEDULES - MECHANICAL — 12

PROJECT NO.: 13270.99

M403

M403 SCHEDULES - MECHANICAL
N.T.S.



WSHP SYSTEM OPERATING PARAMETERS

	LOOP TEMPERATURE	CT-1 & CT-2 (FANS)	CTP-1 & CTP-2	CWP-1 & CWP-2	BOILER (B-1)	ALARM
COOLING MODE	≤ 85° (ADJ.)	OFF	ON	ON	OFF	NONE
	≥ 90° (ADJ.)	ON @ 20 Hz	ON	ON	OFF	NONE
	≥ 95° (ADJ.)	ON @ 40 Hz	ON	ON	OFF	NONE
	≥ 100° (ADJ.)	ON @ 60 Hz	ON	ON	OFF	NONE
	≥ 110° (ADJ.)	ON @ 60 Hz	ON	ON	OFF	YES
HEATING MODE						
	≤ 60° (ADJ.)	OFF	OFF	ON	ON	NONE
	≤ 67° (ADJ.)	OFF	OFF	ON	OFF	NONE
	≤ 50° (ADJ.)	OFF	OFF	ON	ON	YES

NOTES:

1. OUT OF RANGE ALARMS SHALL BE INDICATED BY MEANS F A LOCALIZED AUDIBLE ALARM AND REMOTELY BY MEANS EMAIL / TEXT MESSAGE TO BE SENT TO THE HEAD PLANT OPERATOR. THE REMOTE ALARM ADDRESS SHALL BE CAPABLE OF MODIFICATIONS AND UPDATES. ALARM(S) SHALL SELF RESET IF THE WATER LOOP RETURNS TO AN ACCEPTABLE OPERATING RANGE.
2. CT-1 AND CT-2 SHOULD OPERATE SIMULTANEOUSLY.

BUILDING MANAGEMENT SYSTEM (BMS) NOTES:

1. THE (BMS) SHALL BE WEB ACCESSIBLE. ACCESS SHALL INCLUDE TRENDING DATA, SYSTEM SCHEDULING, TEMP., PRESSURE, ALARMS AND STATUS.
2. TENANT OWNED WSHP UNITS SHALL OPERATE AS STANDALONE UNITS AND SHALL BE CONTROLLED BY LOCAL T-STATS.
3. WSHP UNITS LOCATED IN COMMON AREAS SHALL BE CONTROLLED BY LOCAL T-STAT'S AND SHALL INTERFACE WITH THE BUILDING MANAGEMENT SYSTEM.
4. 110 VAC TO CONTROLLERS BY DIV. 16.

A | NO SCALE | DDC COMMUNICATION RISER

M501 | **WATERSIDE FLOW DIAGRAM - MECHANICAL**

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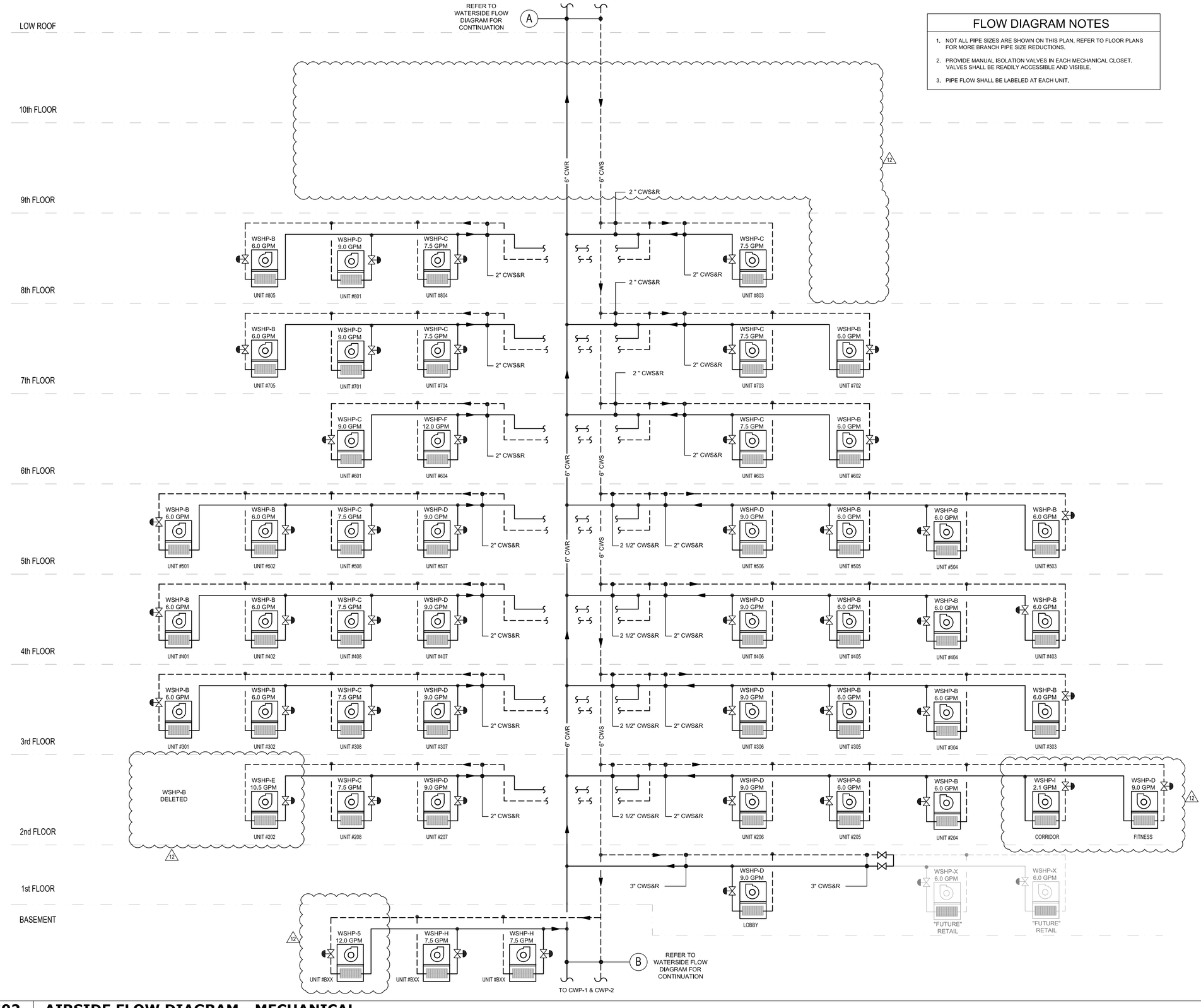
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WATERSIDE FLOW DIAGRAM - MECHANICAL

PROJECT NO.: 13270.99

M501



FLOW DIAGRAM NOTES

1. NOT ALL PIPE SIZES ARE SHOWN ON THIS PLAN, REFER TO FLOOR PLANS FOR MORE BRANCH PIPE SIZE REDUCTIONS.
2. PROVIDE MANUAL ISOLATION VALVES IN EACH MECHANICAL CLOSET. VALVES SHALL BE READILY ACCESSIBLE AND VISIBLE.
3. PIPE FLOW SHALL BE LABELED AT EACH UNIT.

M502 | **AIRSIDE FLOW DIAGRAM - MECHANICAL**

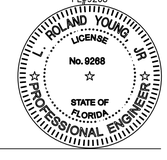
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AIRSIDE FLOW DIAGRAM - MECHANICAL

PROJECT NO.: 13270.99

M502

PIPING LIST	
SYMBOL BRANCH PIPE	MODEL NAME
J1	REDUCER
J2	CMY-R160C-J
SYMBOL LIQUID PIPE/GAS PIPE	SIZE
P1	1/4 / 1/2
P2	3/8 / 5/8
P3	7/8 / -
P4	- / 1-1/8
P5	3/4 / -
P6	5/8 / -
P7	- / 3/4
P8	3/8 / 7/8
P9	3/4 / 1-1/8

DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
/// ///	POWER WIRE
—— - ——	CONTROL WIRE
- - - - -	REF. PIPE

A1:field supplied
Gas : 3/4in
Liquid 3/8in
4-3/4in.
Gas : 7/8in
Liquid : 3/8in

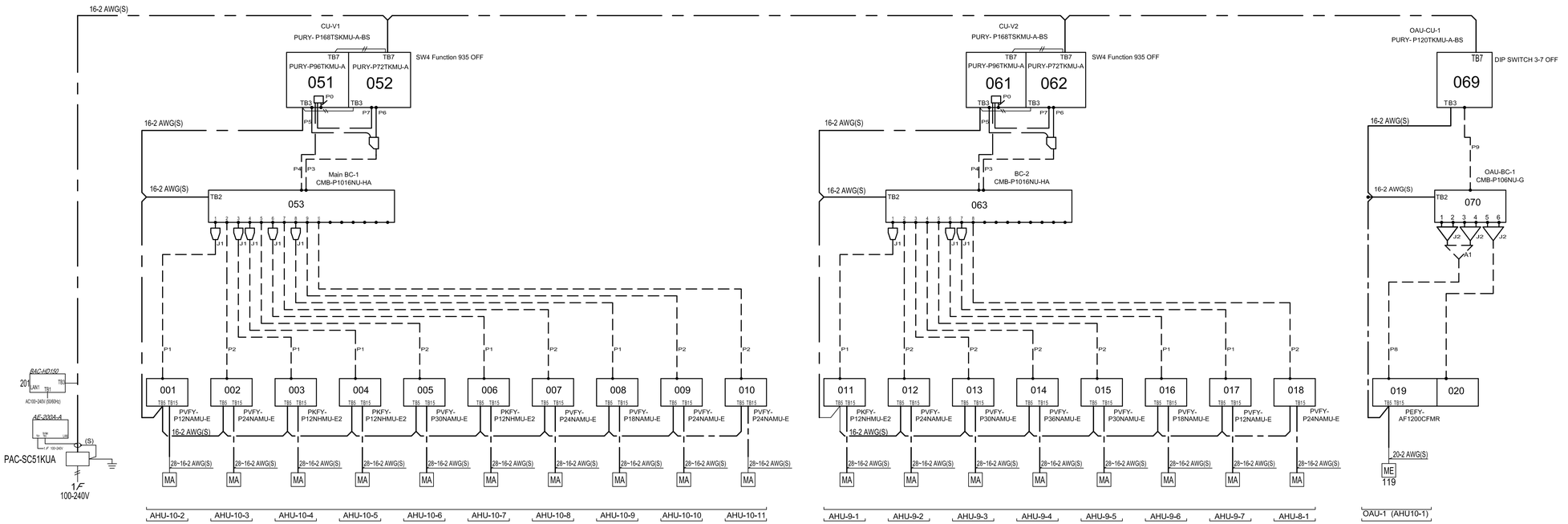
GENERAL NOTES

1. ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING.
2. PLEASE REFER THE AMOUNT OF PRE-CHARGE AND THE FORMULA OF CALCULATION WHICH IS MENTIONED ON THE DATA BOOK.
3. 1.25MM(16 AWG) : 1.25MM(16 AWG) OR MORE
4. 0.75MM(20 AWG) : BETWEEN 0.5MM(24 AWG) AND 0.75MM(20 AWG).
5. THE INFORMATION ON THIS SHEETS PERTAINS TO THE VRF SYSTEM THAT IS DESIGNED TO CONDITION PART OF THE 8TH, ALL OF THE 9TH & 10 TH FLOORS AND DOES NOT APPLY TO THE GENERAL WATER SOURCE HEAT PUMP HVAC SYSTEM.
6. ANY FIELD MODIFICATIONS MADE TO THE ROUTING OR SIZING OF THE PIPING SYSTEM & EQUIPMENT SHALL BE VERIFIED AND APPROVED BY THE MANUFACTURER.

B.O.D. - MITSUBISHI - CITY MULTI

VRF SYSTEM - SCOPE & WARRANTY NOTES

1. A VARIABLE REFRIGERANT FLOW, (VRF) SYSTEM HAS BEEN DESIGNED FOR THE PENTHOUSE "SHELL SPACE" WHICH INCLUDES, OR PARTIALLY INCLUDES THE FOLLOWING. FLOORS:2ND, 8TH, 9TH, 10TH, & ROOF. DUE TO THE LACK OF PROPOSED DATA FOR PENTHOUSE "SHELL SPACE", SOME AIR-HANDLERS HAVE BEEN SELECTED BASED ON THE HEAT GAINS CALCULATED SIMILAR SPACES WITH MATCHING EXPOSURES.
2. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT, PIPING & CONTROLS ASSOCIATED WITH THE VRF SYSTEM TO BE INSTALLED WITH-IN THE "SHELL SPACE". THE "TENANT FIT-OUT" CONTRACT DOCUMENTS WILL BE BID & PERMITTED SEPARATELY. THE "TENANT FIT-OUT" SCOPE WILL INCLUDE DUCTING TO AND FROM EACH AIR-HANDLER, INSTALLATION OF AIR DISTRIBUTION AND OTHER VENTILATION ITEMS, SYSTEM START-UP & COMMISSIONING WILL BE CONDUCTED FOLLOWING THE COMPLETION OF THE "TENANT FIT-OUT" SCOPE. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ENGAGEMENT THROUGH-OUT BOTH PHASES OF THIS PROJECT UNTIL THE SYSTEM START-UP HAS BEEN COMPLETED.THE SYSTEM COMMISSIONING HAS BEEN APPROVED BY THE MANUFACTURER AND THE (10) YEAR FACTORY WARRANTY HAS BEGUN, ADDITIONAL "NON-FACTORY" WARRANTIES SHALL BE PROVIDED AS MANDATED IN OTHER PROJECT REQUIREMENTS.
3. PRIOR TO PROCUREMENT OF THE VRF SYSTEM AS SPECIFIED IN THESE CONTRACT DOCUMENTS, THIS MECHANICAL CONTRACTOR SHALL BE RECOGNIZED AS A CERTIFIED INSTALLER BY THE VRF - EQUIPMENT MANUFACTURER (MITSUBISHI) AS REQUIRED TO SECURE A TEN YEAR LIMITED WARRANTY. SEE MECHANICAL SPECIFICATIONS FOR DETAILS AND ADDITIONAL WARRANTY REQUIREMENTS. THE MANUFACTURER'S TRAINING CERTIFICATION SHALL BE INCLUDED FOR A/E REVIEW ALONG WITH THE EQUIPMENT SHOP DRAWING SUBMITTAL. PRODUCT TRAINING SHALL BE PROVIDED FOR THE ACTUAL INSTALLING PERSONNEL TO ENSURE PROPER SYSTEM INSTALLATION.



AIR-COOLED VRF SYSTEM SCHEMATIC

SCALE: N.T.S.

NEW SHEET CREATED FOR REV #12
12

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AIR-COOLED VRF SYSTEM SCHEMATIC - MECHANICAL 12

PROJECT NO.: 13270.99

M503

M503	AIR-COOLED VRF SYSTEM SCHEMATIC - MECHANICAL
N.T.S.	

DOMESTIC WATER BOOSTER PUMP SCHEDULE

SYMBOL	MANUFACTURER & MODEL #	TYPE	FLOW (GPM)	HEAD (FT)	SHUT-OFF HEAD (FT)	-	ELECTRICAL VOLTAGE	PHASE	HP	RPM	REMARKS/ACCESSORIES
BP-1	DELTA P / 3U4016011100	VARIABLE SPEED DUPLEX END SUCTION W/ HYDRO TANK	250	145	-	VFD	208	3	10	3500	(1) (2) (3) (4) (5) (6) (7) (8) (9)

ACCESSORIES

(1) NOT USED

(2) PROVIDE AUTO ALTERNATE BETWEEN LEAD/LAG PUMPS

(3) PROVIDE FLOW SWITCH TO LIMIT LEAD & LAG PUMP ON-OFF CYCLING

(4) PROVIDE AUTO ALARM AUDIBLE ALARM WITH SILENCE PUSH BUTTON

(5) PROVIDE LOW & HIGH SUCTION PRESSURE SHUTDOWN CIRCUITS

(6) EACH PUMP SHALL BE CONTROLLED BY A SKID MOUNTED VARIABLE FREQUENCY DRIVE.

REMARKS

(7) THE BOOSTER SYSTEM SHALL BE FACTORY ASSEMBLED ON A STEEL SKID INLCUDING PUMPS, MOTORS, VALVES, SUCTION AND DISCHARGE MANIFOLDS, AND ALL INTERCONNECTING PIPING, WIRING, AND CONTROLS.

(8) SYSTEM SPLIT SHALL BE 50%\50% BY FLOW. THE LEAD PUMP SHALL RUN ONLY AS NECESSARY TO MAINTAIN SYSTEM PRESSURE AND SHALL BE CONTROLLED AUTOMATICALLY BY MEANS OF A PRESSURE SWITCH. THE LAG SEQUENCE CONTROL SHALL BE PRESSURE SWITCH OPERATED. ALL PUMPS SHALL HAVE A MINIMUM RUN TIMER TO PREVENT SHORT CYCLING.

(9) EACH SYSTEM SHALL INCLUDE A UL LISTED ENCLOSED INDUSTRIAL CONTROL PANEL IN A NEMA 1 ENCLOSURE FACTORY MOUNTED AND WIRED ON THE STEEL SKID.

SUMP PUMP SCHEDULE

SYMBOL	MANUFACTURER/ MODEL	TYPE	FLOW (GPM)	HEAD (FT)	ELECTRICAL HP	V	PH	ACCESSORIES / REMARKS
SP-1	LIBERTY PUMPS # FL152M2	SUBMERSIBLE	100	15.0	1 1/2	208	1	(1) (2) (3) (4) (5) (6)

(1) THIS IS A TRACTION ELEVATOR. (OIL PUMP SWITCH AND ALARM SENSOR ARE NOT NEEDED) .

(2) LOCATE CONTROL MODULE IN ELEVATOR EQUIPMENT ROOM. PROVIDE ADDITIONAL CONNECTOR CORD LENGTH AS REQUIRED.

(3) ALL BURIED DISCHARGE PIPING SHALL BE PROTECTED WITH CORROSION RESISTANT TAPE.

(4) PUMP ON & HIGH WATER LEVEL ALARM FLOATS

(5) CONNECT CONTROL MODULE TO BUILDING MANAGEMENT SYSTEM

(6) INCLUDE UNION, CHECK VALVE, AND ISOLATION VALVE IN DISCHARGE PIPING.

PLUMBING DRAIN/CLEANOUT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	STRAINER	REMARKS
RD-1	ZURN	ZC100-CR	CAST IRON	UNDERDECK CLAMP, SUMP RECEIVER
RD-2	ZURN	ZC100-CER-89	CAST IRON	UNDERDECK CLAMP, SUMP RECEIVER
FD-1	ZURN	Z415B-P	POLISHED NICKEL BRONZE	TRAP PRIMER CONNECTION
FD-2	ZURN	Z550-P	CAST IRON	TRAP PRIMER CONNECTION
FCO	ZURN	ZN1400-BP-K	POLISHED NICKEL BRONZE	BRONZE PLUG, ANCHOR FLANGE, CARPET MARKER AS REQUIRED
GCO	ZURN	Z1474	CAST IRON	WITH INTERNAL CLEANOUT (Z1440-BP)
WCO	ZURN	Z1446-BP	CAST IRON WITH STAINLESS STEEL COVER	BRONZE PLUG, ROUND WALL ACCESS COVER, ELONGATED SCREW AS REQUIRED
DS-1	ZURN	Z199-ZAB-SS	POLISHED BRONZE	WITH REMOVABLE STAINLESS STEEL SCREEN
DD-1	ZURN	Z107	POLISHED NICKEL BRONZE	SEDIMENT BUCKET SECURING HOLES. PROVIDE MEMBRANE CLAMP WHEN WATER PROOFING IS PRESENT
DD-2	ZURN	ZB158-DT	POLISHED BRONZE	-

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PLUMBING INDEX

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ELECTRIC WATER HEATER SCHEDULE

MARK	EWH-1	EWH-2	EWH-3	
KW	4.5	4.5	4.5	
KW PER ELEMENT	4.5	4.5	4.5	
NUMBER OF ELEMENTS	2	2	2	
ELEMENT OPERATION	NON-SIM	NON-SIM	NON-SIM	
RECOVERY (GPH)@60°F	36	47	14	
STORAGE(GALLONS)	50	66	30	
STORAGE TEMP(°F)	140	140	140	
SIZE(D"xH")	(26"x32")	(21"x60")	(24"x32")	
VOLTS/PHASE/HERTZ	208/3/60	208/3/60	208/3/60	
SHIPPING WEIGHT(LBS)	590	675	460	
MANUFACTURER	STATE	STATE	STATE	
MODEL NUMBER	PCE5020LSA	PCE6620RTA	PCE4020LSA	
ASME APPROVED	YES	YES	YES	

STORM DRAINAGE CALCULATION SCHEDULE

ROOF DRAIN	TOTAL AREA TO BE DRAINED (s.f.)	RAINFALL TO BE DRAINED PER DRAIN (in./hr.)	CAPACITY in/hr x 0.0104 = GPM PER DRAIN	SIZE OF ROOF DRAIN AND VERT. LEADER	LOCATION
1	450	4.5	21	3"	ROOF (SHEET P109)
2	660	4.5	31	3"	ROOF (SHEET P109)
3	1,100	4.5	52	4"	ROOF (SHEET P109)
4	600	4.5	29	3"	ROOF (SHEET P109)
5	120	4.5	6	3"	ROOF (SHEET P109)
6	500	4.5	23	3"	ROOF (SHEET P109)
7	730	4.5	34	3"	ROOF (SHEET P109)
8	1,400	4.5	66	4"	ROOF (SHEET P109)
9	520	4.5	25	3"	10TH FLOOR (SHEET P108)
10	100	4.5	5	3"	10TH FLOOR (SHEET P108)
11	80	4.5	4	3"	10TH FLOOR (SHEET P108)
12	120	4.5	6	3"	10TH FLOOR (SHEET P108)
13	210	4.5	10	3"	10TH FLOOR (SHEET P108)
14	140	4.5	7	3"	10TH FLOOR (SHEET P108)
15	140	4.5	7	3"	10TH FLOOR (SHEET P108)
16	5,500	4.5	258	6"	6TH FLOOR (SHEET P105)
17	1,800	4.5	85	4"	6TH FLOOR (SHEET P105)
18	940	4.5	44	3"	6TH FLOOR (SHEET P105)
19	674	4.5	32	3"	6TH FLOOR (SHEET P105)
20	1,260	4.5	59	3"	6TH FLOOR (SHEET P105)
21	1,870	4.5	88	4"	6TH FLOOR (SHEET P105)
22	1,200	4.5	57	4"	6TH FLOOR (SHEET P105)
23	2,050	4.5	96	4"	6TH FLOOR (SHEET P105)

NOTE:
REFER TO THE GENERAL NOTES, NOTE 36 FOR STORM PIPING MINIMUM SLOPE.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—— – ——	COLD WATER		BALL VALVE
—— – – ——	HOT WATER		SHUTOFF VALVE
—— – – – ——	HOT WATER CIRCULATION		BALANCE VALVE
—— NG ——	NATURAL GAS		PRESSURE REDUCING VALVE
—— SAN ——	SANITARY		VALVE IN VERTICAL
—— SAN ——	SANITARY UNDER SLAB		SOLENOID VALVE
—— V ——	VENT		RPZ BACKFLOW PREVENTER
—— ST ——	STORM		CHECK VALVE
—— OD ——	OVERFLOW DRAIN		UNION IN PIPE
—— ST ——	STORM UNDER SLAB		CLEANOUT
—— CD ——	CONDENSATE DRAIN		EXTERIOR CLEANOUT
	PIPE TURNED UP	P-1	FIXTURE IDENTIFICATION
	PIPE TURNED DOWN	1	RISER IDENTIFICATION
	WALL CLEANOUT - (CO)	⌀ /	FLOOR CLEANOUT
	CAP ON LINE		HOSE BIBB
	STRAINER	(S1)	EQUIPMENT IDENTIFICATION
	FLOOR DRAIN		CIRCULATING PUMP
	HUB DRAIN		FLOOR SINK
	DEMOLISH TO POINT INDICATED		CONNECT TO EXISTING
	BASE OF STACK WALL CLEANOUT - (CO)		

PLUMBING ABBREVIATIONS

ABV	ABOVE	FLR	FLOOR
AFF	ABOVE FINISHED FLOOR	HW	HOT WATER
AP	ACCESS PANEL	HWR	HOT WATER RETURN
ASSEM	ASSEMBLY	IM	ICE MAKER
BF	BELOW FLOOR	INCL'D	INCLUDING
BFF	BELOW FINISH FLOOR	PLBG	PLUMBING
BLDG	BUILDING	RD	ROOF DRAIN
BLW	BELOW	REF	REFRIGERATOR
BV	BALANCING VALVE	REQ'D	REQUIRED
CD	CONDENSATE DRAIN	RPZ	REDUCED PRESSURE ZONE
CLG	CEILING	SAN	SANITARY
CO	CLEANOUT	SS	SOIL STACK
COMP	COMPARTMENT	ST	STORM
CONN	CONNECTION	STO	STORM OVERFLOW DRAINAGE
CONT	CONTINUATION	TPV	TRAP PRIMER VALVE
CM	COFFEE MAKER	TYP	TYPICAL
CW	COLD WATER	US	UNDER SLAB
DN	DOWN	V	VENT
DW	DOMESTIC WATER	VIV	VALVE IN VERTICAL
DWG	DRAWING	VS	VENT STACK
(E)	EXISTING	VTR	VENT THRU ROOF
(ETR)	EXISTING TO REMAIN	W	WASTE
(ETBR)	EXISTING TO BE REMOVED	WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT	WTR	WATER
FD	FLOOR DRAIN	W/	WITH

FIXTURE CONNECTION SCHEDULE

ID.	FIXTURE	CW	HW	WASTE
P-1	WATER CLOSET (FLOOR MOUNTED-FLUSH VALVE-PUBLIC)	1"	–	4"
P-1A	WATER CLOSET (FLOOR MOUNTED-FLUSH VALVE-ADA-PUBLIC)	1"	–	4"
P-1B	WATER CLOSET (FLOOR MOUNTED-TANK-GUESTROOM)	1/2"	–	4"
P-2A	URINAL (WALL MOUNTED-FLUSH VALVE-ADA-PUBLIC)	3/4"	–	2"
P-3	LAVATORY (COUNTER MOUNTED-MANUAL FAUCET-UNITS)	1/2"	1/2"	1-1/4"
P-3A	LAVATORY (WALL MOUNTED-MANUAL FAUCET-PUBLIC-ADA)	1/2"	1/2"	1-1/4"
P-3B	LAVATORY (COUNTER MOUNTED-MANUAL FAUCET-PUBLIC-ADA)	1/2"	1/2"	1-1/4"
P-4	PANTRY SINK (UNITS)	1/2"	1/2"	1-1/2"
P-4C	PANTRY SINK (PUBLIC)	1/2"	1/2"	1-1/2"
P-5	ELECTRIC WATER COOLER (WALL MOUNTED-BI LEVEL-RECESSED-PUBLIC)	1/2"	–	1-1/2"
P-6	MOP BASIN (FLOOR MOUNTED-STAFF)	3/4"	3/4"	3"
P-7A	SHOWER (TILE-DRAIN PAN-UNITS)	1/2"	1/2"	2"
P-7B	BATHTUB (UNITS)	1/2"	1/2"	2"
P-7C	SHOWER (10TH FLOOR SPA AND HOT TUB DECK)	1/2"	1/2"	2"

55. GAS PIPING AND SAFETY DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE STATE AND LOCAL CODES AND NFPA 54 AND SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE STATE REGULATORY BOARD.

56. PLUMBING CONTRACTOR SHALL DISINFECT POTABLE WATER SYSTEM PER THE LOCALLY ADOPTED PLUMBING CODE.

57. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY THE LOCAL AUTHORITY HAVE JURISDICTION

58. PROVIDE WATER HAMMER ARRESTOR ON ALL COLD AND HOT WATER LINES SERVING FIXTURES USING FLUSH VALVES, SOLENOID VALVES, OR QUICK CLOSING DEVICES. ARRESTORS SHALL BE SIZED IN ACCORDANCE WITH P.D.I. STANDARDS FOR THE TOTAL NUMBER OF FIXTURES SERVED.

59. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.

PLUMBING GENERAL NOTES

1. SPECIFICATIONS, SYMBOLS LIST, ABBREVIATIONS AND DETAILS ARE APPLICABLE TO ALL DRAWINGS MARKED P.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO DEPICT THE GENERAL LOCATION OF PLUMBING SYSTEM COMPONENTS. DO NOT SCALE THESE DRAWINGS. CONSULT ARCHITECTURAL PLANS FOR PROPER DIMENSIONS AND EXACT LOCATION OF PLUMBING EQUIPMENT.
3. BEFORE SUBMITTING A BID CAREFULLY STUDY THE CONSTRUCTION DOCUMENTS. CAREFULLY EXAMINE THE PREMISES AND ANY EXISTING WORK. DETERMINE, IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE APPARATUS, THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT INTO PLACE, AND BECOME THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE CONTRACT.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2010 EDITION OF THE FLORIDA BUILDING CODE INCLUDING ALL SUPPLEMENTS. THE 2010 EDITION OF THE GUIDELINES FOR DESIGN & CONSTRUCTION OF HOSPITAL AND HEALTH CARE FACILITIES, AND ALL APPLICABLE STATE AND LOCAL CODES, RULES AND REGULATIONS. IN CASE OF DIFFERENCES THE MOST STRINGENT SHALL GOVERN.
5. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
7. VERIFY SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING.
8. OBTAIN AND PAY FOR ALL PERMITS ASSOCIATED WITH THIS PROJECT AND ARRANGE FOR ALL REQUIRED INSPECTIONS BY THE APPROPRIATE LOCAL AUTHORITIES.
9. FURNISH ANY MISCELLANEOUS ITEMS NORMALLY USED, SPECIFICALLY MENTIONED OR NOT, TO RENDER A COMPLETE INSTALLATION.
10. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
11. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS. SUBMIT LITERATURE FOR ALL EQUIPEMENT AND MATERIALS TO THE ENGINEER OF RECORD FOR APPROVAL.
12. A DIELECTRIC UNION SHALL BE USED TO JOIN ANY DISSIMILAR MATERIALS.
13. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
14. ALL PIPING VALVES AND ACCESSORIES SERVING EQUIPMENT SHALL BE INSTALLED IN A MANNER AS TO ALLOW SERVICING AND/OR REMOVAL WITHOUT DISCONNECTING ALL PIPING AND ACCESSORIES.
15. A BACKWATER VALVE IS (NOT) REQUIRED FOR THIS PROJECT.
BUILDING FINISH FLOOR ELEVATION: XXX.XX'
UPSTREAM MANHOLE RIM ELEVATION: XXX.XX'
16. DEFRAY ALL COSTS INCIDENTAL TO THE GAS PIPING SYSTEM. CONTRACTORS WORK SHALL COMMENCE ON THE HOUSE SIDE OF THE UTILITY COMPANY METER.
17. PROVIDE ALL OPEN SITE DRAINS WITH DEEP SEAL TRAPS, UNLESS INDICATED OTHERWISE.
19. GUARANTEE ALL PARTS AND LABOR FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
20. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS.
21. FOR ALL SIZES OF WASTE, VENT, HOT AND COLD WATER PIPING TO FIXTURES AND EQUIPMENT, SEE SANITARY WASTE AND WATER RISER DIAGRAMS.
22. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THEIR WORK WITH THAT OF ALL OTHER TRADES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, HVAC, PLUMBING, FIRE PROTECTION, TELCOM, STRUCTURAL, CIVIL, AND GENERAL ARCHITECTURE. THIS SHALL INCLUDE PROVIDING SUFFICIENT SPACE TO MEET ALL OTHER TRADE CLEARANCE REQUIREMENTS.
24. OFFSET ALL VTR'S A MINIMUM OF 3'-0" FROM PARAPET WALLS AND A MINIMUM OF 10'-0"/25'-0" FROM OUTSIDE AIR INTAKES, DOORS, AND OPERABLE WINDOWS.
25. TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR.
26. PROVIDE ONE (1) TRAP PRIMER CONNECTION TO EACH FLOOR DRAIN WITHOUT A CONSTANT SOURCE OF WATER SUPPLY TO MAINTAIN TRAP SEAL. THE PRIMER VALVE SHALL BE LOCATED IN AN ACCESSIBLE AREA AND CONNECTED TO THE NEAREST COLD WATER LINE.
27. PITCH PRESSURE PIPING IN DIRECTION OF FLOW.
28. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN ANY MANNER WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND APPROVAL.
31. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
32. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS.
33. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
34. COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS.
35. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
36. SLOPE ALL STORM PIPING AT A MINIMUM SLOPE OF 1% UNLESS OTHERWISE NOTED. SLOPE ALL SANITARY PIPING 3" AND LARGER AT A MINIMUM SLOPE OF 1%. ALL SANITARY PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT A MINIMUM OF 2%.
37. WATER HEATERS SHALL BE INSTALLED WITH DRAIN PANS UNDER HEATERS. ROUTE PAN DRAINS TO NEAREST OPEN SITE DRAIN, FLOOR DRAIN OR JANITOR'S CLOSET.
38. PIPING SHALL NOT RUN OVER ELECTRIC PANELS.
39. RUN PIPING CONCEALED AND CLEAR OF CEILING INSERTS, UNLESS SPECIFIED OTHERWISE.
40. ALL VERTICAL SANITARY AND STORM PIPING WHICH TURNS 90 DEGREES AFTER PASSING THROUGH A FLOOR SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE. ALL VOID OPENINGS SHALL BE FIRE STOPPED AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
43. ALL HORIZONTAL DRAINAGE PIPING AND TRAPS FROM AN OPEN SIGHT DRAIN OR RECEPTOR RECEIVING DISCHARGE FROM AN ICEMAKER OR CONDENSATE SHALL BE INSULATED.
43. A SUITABLE DIRT LEG SHALL BE INSTALLED AT THE BOTTOM OF ALL GAS RISERS.
44. PROVIDE A GASCOCK, UNION AND MINIMUM 4" DIRTLEG AT EACH GAS APPLIANCE CONNECTION.
45. THIS CONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL REGULATOR VENTS TO ATMOSPHERE.
46. SEAL ALL EXISTING AND NEW FLOOR/ROOF/WALL PENETRATIONS AS REQUIRED TO MAINTAIN INTEGRITY OF LISTED ASSEMBLY AND PROVIDE SLEEVE WHERE REQUIRED.
47. SEAL ALL EXISTING AND NEW WALL PENETRATIONS AS REQUIRED TO MAINTAIN SOUND TRANSMISSION CLASS (STC) RATINGS, PROVIDE SLEEVES WHERE REQUIRED.
48. ALL OVERHEAD PIPING SHALL BE SUSPENDED FROM STRUCTURE ABOVE. PROVIDE SWAY BRACING ON ALL OVERHEAD WATER PIPING AS REQUIRED.
49. SLEEVE FOUNDATION WALLS WITH PVC SCHEDULE 40 FOR ALL PIPE PENETRATIONS.
50. ALL PIPING SHALL BE INSTALLED INSIDE OF THE BUILDING INSULATION ENVELOPE. ALL HOT WATER AND HOT WATER CIRCULATION PIPING SHALL BE INSULATED.
51. MAKE PROPER WASTE, VENT, HOT AND COLD WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT, EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
52. ALL PIPE PENETRATIONS BELOW SINKS SHALL BE SEALED.
53. ALL EXPOSED PIPING UNDER HANDICAP LAVATORY TO BE INSULATED.
CONTRACTOR SHALL PROVIDE ADDITIONAL WATER LINE DROPS IN WALL WHEN HORIZONTAL RUN IN WALL CONFLICTS WITH VENT PIPE IN WALL.
54. ALL NATURAL GAS PIPING LOCATED ABOVE CEILING IN PLENUM SPACE SHALL BE WELDED. CONTRACTOR SHALL ALERT ENGINEER AS TO ANY EXISTING GAS PIPING WHICH DOES NOT COMPLY.

GENERAL NOTES

1.

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No.	Date	Revisions / Submissions	D.	CK.
13	02/22/2016	PERMIT REVISIONS		
12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
2	03/16/2015	PERMIT REVIEW COMMENTS		
1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

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PLUMBING LEGEND SYMBOLS AND GENERAL NOTES

PROJECT NO.: 13270.99

P001

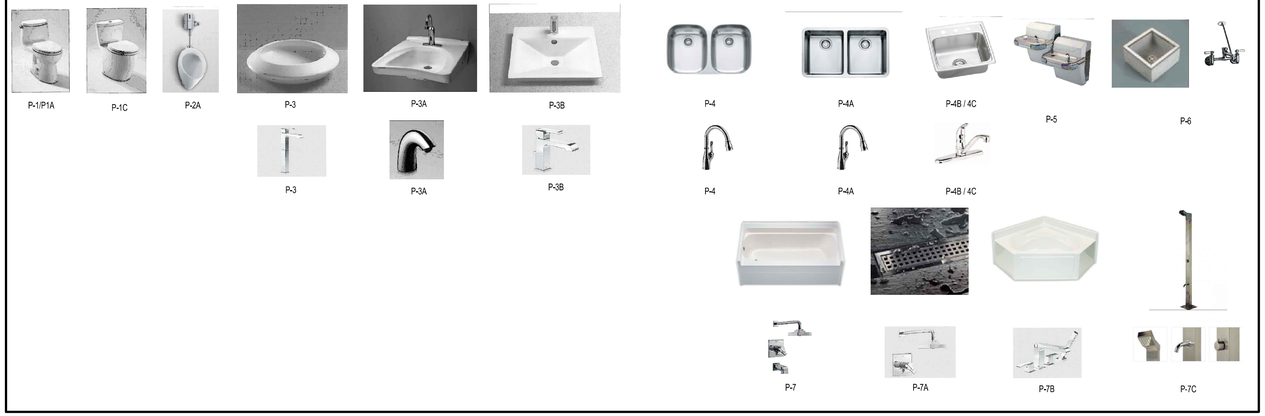
P001 PLUMBING LEGEND SYMBOLS AND GENERAL NOTES
N.T.S.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE				FITTINGS					FLOOR MOUNTED CARRIER	REMARKS
	MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	TYPE	SUPPLY	TRAP	FAUCET		
* P-1	TOTO WATER CLOSET PUBLIC	ULTRA MAX #MS604114CEFG 1.28 GALLONS/FLUSH	FLUSH TANK FLOOR MOUNTED VITREOUS CHINA	ELONGATED BOWL	N/A	N/A	N/A	INTEGRAL	N/A	N/A	SEAT- INCLUDED
* P-1A	TOTO WATER CLOSET-ADA PUBLIC	ULTRA MAX #MS604114CEFG 1.28 GALLONS/FLUSH	FLUSH TANK FLOOR MOUNTED VITREOUS CHINA	ELONGATED BOWL	N/A	N/A	N/A	INTEGRAL	N/A	N/A	SEAT- INCLUDED
* P-1C	TOTO WATER CLOSET UNITS	ULTRA MAX #MS654114MF 1.6/0.9 GALLONS/FLUSH	FLUSH TANK FLOOR MOUNTED VITREOUS CHINA	ELONGATED BOWL	N/A	N/A	N/A	INTEGRAL	N/A	N/A	SEAT- INCLUDED
* P-2A	TOTO URINAL-ADA PUBLIC	UT104E 0.5 GALLONS/FLUSH	WALL MOUNTED VITREOUS CHINA	N/A	TOTO	TEU1LN12#CP FLUSHOMETER	N/A	INTEGRAL	N/A	JAY R. SMITH #0637	INSTALL AT ADA HEIGHT, REFER TO ARCHITECTURAL DRAWINGS
* P-3	TOTO LAVATORY UNITS	VESEL LT185 SELF-RIMMING WITHOUT OVERFLOW	COUNTER MOUNT VITREOUS CHINA	4" FAUCET CENTERS	McGUIRE	#155A GRID DRAIN	#H-2165	#8872	DELTA #767LF SINGLE HANDLE	N/A	N/A
* P-3A	TOTO LAVATORY-ADA PUBLIC - 10TH FL	LT308.4	WALL MOUNTED VITREOUS CHINA	SINGLE HOLE	McGUIRE	#155WC GRID DRAIN	#H-2165	#8872 OFFSET FOR WHEEL CHAIR USE	DELTA #TEL5LS10 SENSOR FAUCET	JAY R. SMITH SERIES 700 AS REQUIRED	PROVIDE TRUEBRO LAV-GUARD2 INSULATION
* P-3B	TOTO LAVATORY - ADA PUBLIC - BSMT	VESSEL KIWAMI RENESSE LT172G	COUNTER MOUNTED VITREOUS CHINA	SINGLE HOLE	McGUIRE	#155A	KHOLER #K-7600-P	#8902	DELTA #567LF-MPU SINGLE HANDLE	N/A	N/A
* P-4	FRANKE SINK UNITS	REGATTA RGX120	UNDER MOUNTED STAINLESS STEEL	4" FAUCET CENTERS	McGUIRE	#151 BASKET STRAINER	#H-2165	#8912	DELTA #9178-DST SINGLE LEVER SWING SPOUT MANUALLY OPERATED	N/A	N/A
* P-4A	FRANKE SINK UNITS	KUBUS KBX12030	UNDER MOUNTED STAINLESS STEEL	4" FAUCET CENTERS	McGUIRE	#151 BASKET STRAINER	#H-2165	#8912	DELTA #9178-DST SINGLE LEVER SWING SPOUT MANUALLY OPERATED	N/A	N/A
* P-4B	ELKAY SINK UNITS	ELU1616DBG	UNDER MOUNTED STAINLESS STEEL	4" FAUCET CENTERS	McGUIRE	#151 BASKET STRAINER	#H-2165	#8912	ELKAY #LKE4100 SINGLE LEVER SWING SPOUT MANUALLY OPERATED	N/A	N/A
* P-4C	ELKAY SINK 10TH FLOOR (PUBLIC)	LRDQ2219	COUNTER MOUNTED STAINLESS STEEL	4" FAUCET CENTERS	McGUIRE	#151 BASKET STRAINER	#H-2165	#8912	ELKAY #LKE4100 SINGLE LEVER SWING SPOUT MANUALLY OPERATED	N/A	N/A
P-5	HALSEY TAYLOR WATER COOLER PUBLIC	MODEL #HTV8BL-WF-Q BI-LEVEL RECESSED COMPRESSOR WATER FILTER	WALL MOUNTED STAINLESS STEEL	N/A	McGUIRE	N/A	#HST-2	#8872	N/A	N/A	N/A
P-6	FIAT MOP BASIN	TSB-100 STAINLESS STEEL DRAIN STAINLESS STEEL CAPS	FLOOR MOUNTED PRECAST TERRAZZO	24"x24"X10"	N/A	N/A	N/A	N/A	CHICAGO #897 INTEGRAL STOPS VACUUM BREAKER MANUALLY OPERATED	N/A	PROVIDE WITH HOSE, WALL HOOK, & MOP HANGER. PROVIDE WALL GUARDS WHEN WALLS ARE NOT TILE
* P-7	BATHTUB UNITS	HAMILTON BATHWARE G60327O	N/A	N/A	KHOLER	#K-7261	N/A	N/A	DELTA #T17T267 CHROME	N/A	SHOWER DRAIN SHALL BE STAINLESS STEEL LINEAR DRAIN BY SCHLUTER SERIES KERDI-LINE
* P-7A	SHOWER UNITS	-	N/A	N/A	N/A	N/A	N/A	N/A	DELTA #T17T267 CHROME	N/A	SHOWER DRAIN SHALL BE STAINLESS STEEL LINEAR DRAIN BY SCHLUTER SERIES KERDI-LINE KERDI LINE #KLV60E80 (SHOWER DRAIN)
* P-7B	BATHTUB UNIT #15	HAMILTON BATHWARE G6060AP	N/A	N/A	KHOLER	#K-7261	N/A	N/A	DELTA #T4767 CHROME	N/A	N/A
* P-7C	SHOWER 10TH FL. DECK	TANTA OUTDOOR FREESTANDING STAINLESS STEEL SHOWER	N/A	N/A	N/A	#K-7261	N/A	N/A	N/A	N/A	N/A

* BASIS OF DESIGN PLUMBING FIXTURE

PLUMBING FIXTURE PHOTOS



HB-1 WALL HYDRANT

FREEZE PROOF ENCLOSED WALL ANTI-SIPHON WALL HYDRANT COMPLETE COMPLETE WITH BRONZE CASING, VACUUM BREAKER, ALL BRONZE INTERIOR PARTS AND NON TURNING OPERATING ROD WITH FREE FLOATING COMPRESSION CLOSURE VALVE. WATER BOX DOOR SHALL BE BRASS CASTING WITH CHROME FINISH AND OPERATING KEY.



BASIS OF DESIGN

WATTS HY-330 (OUTDOORS)

HB-2 INDOOR HOSE BIBB

EXPOSED CHROME FREEZELESS WALL HYDRANT, VACUUM BREAKER BACKFLOOR PREVENTER, 3/4" FEMALE PIPE THREAD CONNECTION AND LOOSE TEE KEY HANDLE.



BASIS OF DESIGN

WOODFORD 65-3/4"

DD-1 DECK DRAIN

DECK DRAIN, DURA COATED CAST IRON BODY WITH ROTATABLE, SQUARE PROMENADE FRAME WITH SEEPAGE SLOTS, FRAME CLAMPS, DECORATIVE LIGHT DUTY HEEL PROF GRATE.



BASIS OF DESIGN

ZURN - Z107

DD-2 DECK DRAIN

DECK DRAIN, DURA COATED CAST IRON BODY WITH ROTATABLE, SQUARE PROMENADE FRAME WITH SEEPAGE SLOTS, FRAME CLAMPS, DECORATIVE LIGHT DUTY HEEL PROF GRATE.



BASIS OF DESIGN

ZURN - ZB158-DT

OB-1 DOMESTIC WATER OUTLET BOX

PROVIDE 11" X 9" RECESSED SUPPLY BOX WITH WALL FLANGE, MANUFACTURED FROM MINIMUM 16 GAUGE STEEL WITH EPOXY FINISH. FURNISH WITH 1/2" X 1/4" COMPRESSION ANGLE VALVE.



BASIS OF DESIGN

GUY GREY - MODEL BIM875

WM-1 WASHING MACHINE SUPPLY AND DRAIN BOX

PROVIDE 11" X 9" RECESSED SUPPLY AND WASTE HOSE BOX WITH WALL FLANGE, MANUFACTURED FROM MINIMUM 16 GAUGE STEEL WITH EPOXY FINISH. FURNISH WITH TOP SUPPLY HOSE VALVES AND 2" DRAIN.



BASIS OF DESIGN

GUY GREY - MODEL W2700-HA

SA-1 SHOCK ARRESTER

PISTON OPERATED, TYPE "K" COPPER BARREL WITH BRASS THREADED ADAPTOR. ALL JOINTS SHALL BE MADE WITH 95-5 LEAD FREE SOLDER. THE PISTON SHALL BE EQUIPPED WITH TWO (2) "O" RINGS TO PROVIDE A PERMANENT MECHANICAL BARRIER BETWEEN FLUID AND PRE-LOAD AIR CHARGE. ARRESTORS MAY BE INSTALLED IN VERTICAL AND HORIZONTAL POSITION.

THE ARRESTOR SHALL BE FULLY GUARANTEED FOR ENTIRE SYSTEM LIFE.

NOTE:

SHOCK ARRESTORS SHALL BE PROVIDED AT ALL FIXTURES AND BATTERIES OF FIXTURES WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.

BASIS OF DESIGN

PRECISION PLUMBING PRODUCTS - SC SERIES

TP-1 AUTOMATIC TRAP PRIMER VALVE

MACHINED OF CORROSION RESISTANT BRASS SHALL NOT CONTAIN SPRINGS OR DIAPHRAMS, "O" RING SEALS TESTED FOR RELIABILITY BETWEEN -40 TO 4500 F. INLET OPENING SHALL BE 1/2-INCH MALE NPT, OUTLET SHALL BE 1/2-INCH FEMALE NPT.

TRAP PRIMER OPERATES VIA LINE PRESSURE DROP AND DOES NOT NEED TO BE PLACED NEAR A FIXTURE.

BASIS OF DESIGN

PRECISION PLUMBING PRODUCTS

CO CLEANOUTS

GENERAL(ALL FLOOR CLEANOUTS): DURO-COATED CAST IRON CLEANOUT WITH MEMBRANE FLANGE WITH CADMIUM PLATED CAST IRON COUNTERSUNK PLUG. CLEANOUT CAN BE ADJUSTED TO FINISH FLOOR LEVEL AFTER CONCRETE HAS SET.

FLOOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP

TILE FLOOR: HEAVY DUTY ROUND NICKEL BRONZE TOP RECESSED FOR TILE.

EXTERIOR: HEAVY DUTY ROUND SCORIATED NICKEL BRONZE TOP. PROVIDE WITH 18" X 4" THICK CONCRETE COLLAR, SEE DETAIL.

WALL: CAST IRON CLEANOUT TEE, CADMIUM PLATED CAST IRON COUNTERSUNK PLUG, SMOOTH SQUARE NICKEL BRONZE WALL ACCESS COVER AND FRAME.

PLUG: DURA-COATED CAST IRON FERRULE AND CADMIUM PLATED CAST IRON COUNTERSUNK PLUG.

BASIS OF DESIGN

FLOOR - ZURN - ZN-1405
TILE FLOOR - ZURN - ZN-1405-4
EXTERIOR FLOOR - ZURN - ZN-1405
WALL - ZURN - 1445-4
PLUG - ZURN - Z-1440

FLOOR DRAIN WITH FUNNEL - A/C ROOM - UNITS

EPOXY COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION AND ADJUSTABLE NICKEL BRONZE STRAINER, 5" ROUND TOP, 4" NICKEL BRONZE FUNNEL, TAPPED FOR TRAP PRIMER CONNECTION.



BASIS OF DESIGN

WATTS - FD-100-EF

GENERAL NOTES

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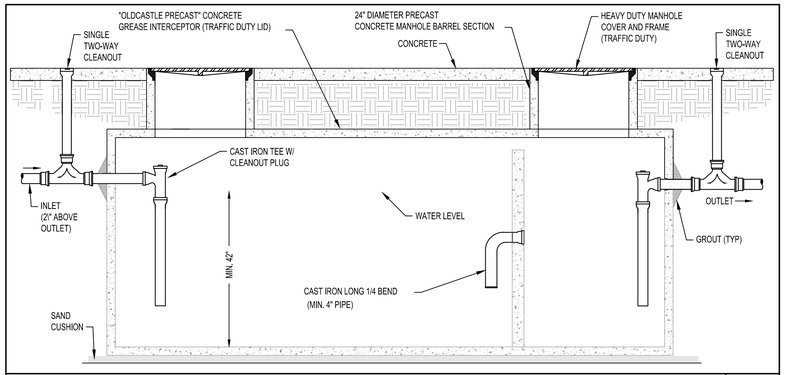
THE SKYVIEW CONDOMINIUMS
400 CLEVELAND, LLC.
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PLUMBING SCHEDULES

PROJECT NO.: 13270.99

P002

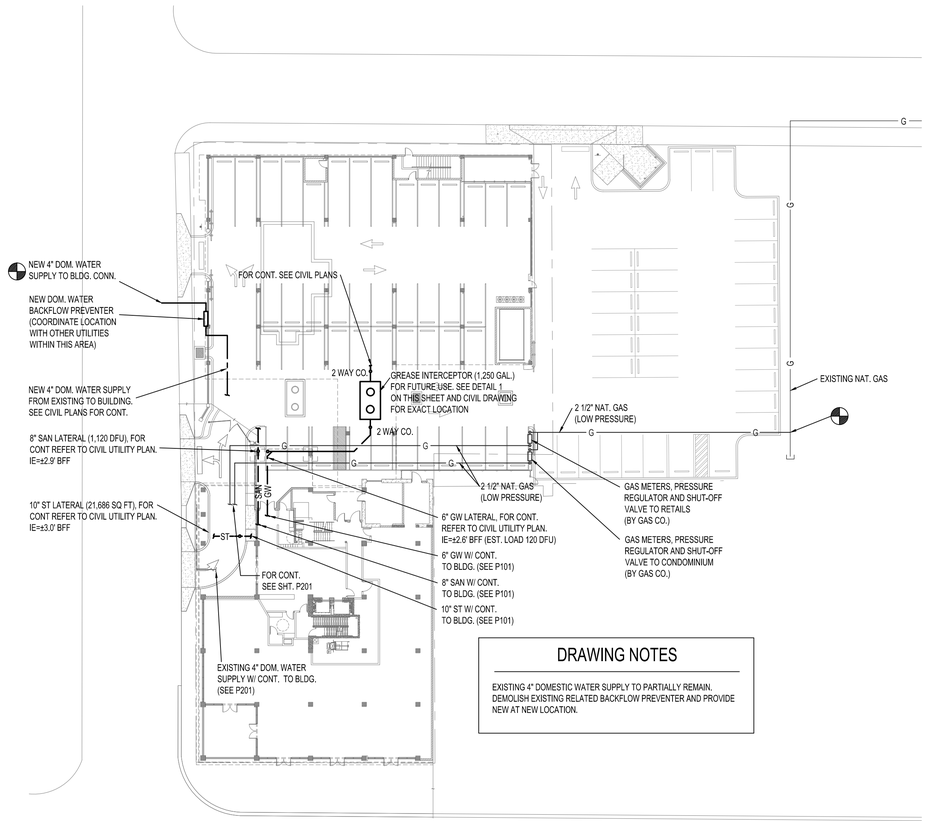
P002 **PLUMBING SCHEDULES**
N.T.S.



GREASE INTERCEPTOR (1,250 GAL.)

No Scale

1



DRAWING NOTES

EXISTING 4" DOMESTIC WATER SUPPLY TO PARTIALLY REMAIN. DEMOLISH EXISTING RELATED BACKFLOW PREVENTER AND PROVIDE NEW AT NEW LOCATION.

GENERAL NOTES

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L. Roland Young Jr., PE
PE#9268

L. ROLAND YOUNG JR
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SITE PLUMBING PLAN

PROJECT NO.: 13270.99

P100

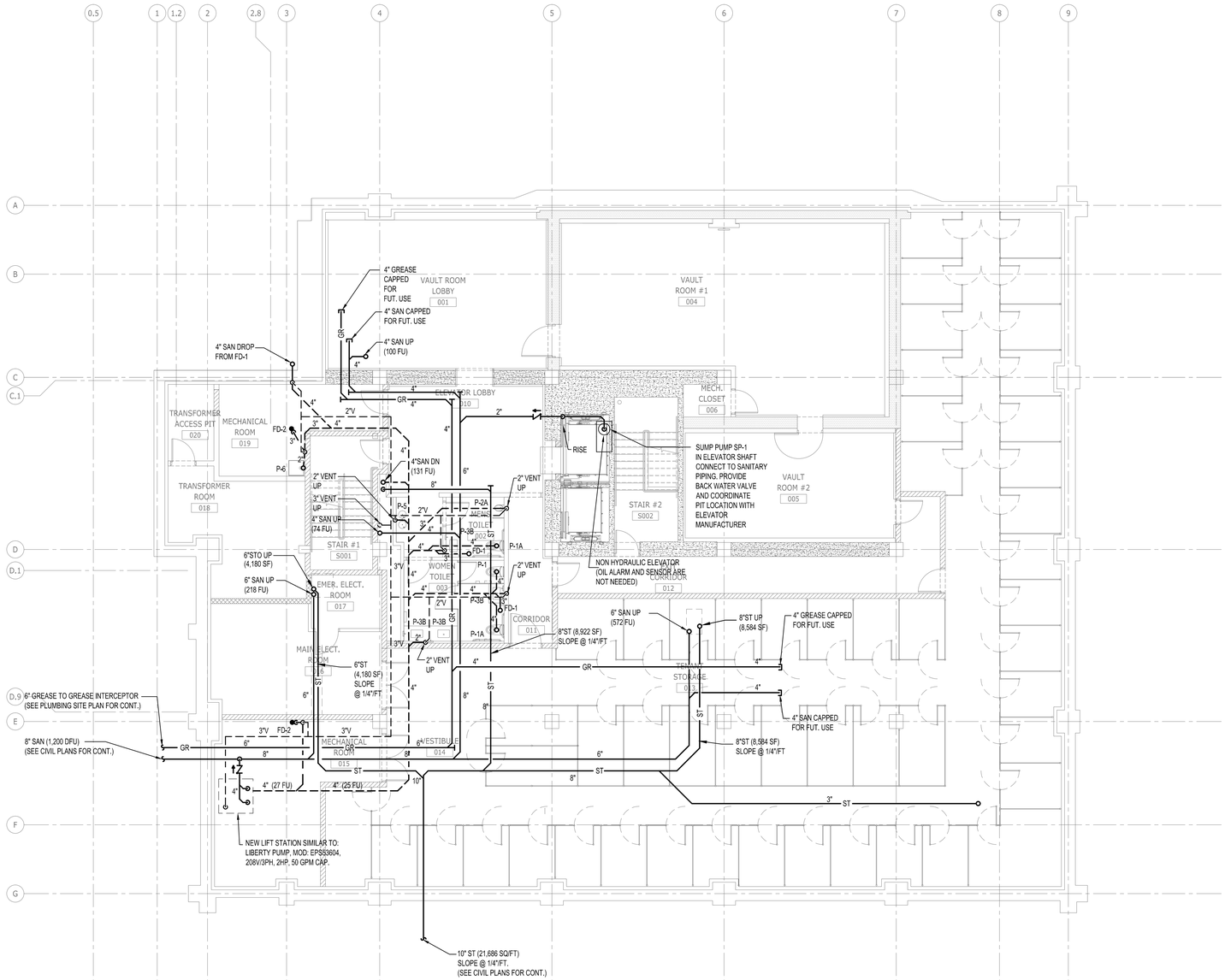
P100 | **SITE PLUMBING PLAN**

1" ☐ 30☐☐"

NOTE:
SLOPE ALL STORM PIPING AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.

DRAWING NOTES

SANITARY AND STORM STACKS LOCATED INSIDE CHASES SHALL BE COORDINATED WITH DOMESTIC WATER PIPING, NATURAL GAS PIPING AND MECHANICAL CONDENSER WATER PIPING, LOCATED IN SAME CHASE.



GENERAL NOTES

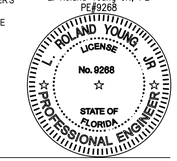
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L. Roland Young Jr., PE
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THE SKYVIEW CONDOMINIUMS

400 CLEVELAND, LLC.
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BASEMENT FLOOR PLAN □GRAVITY

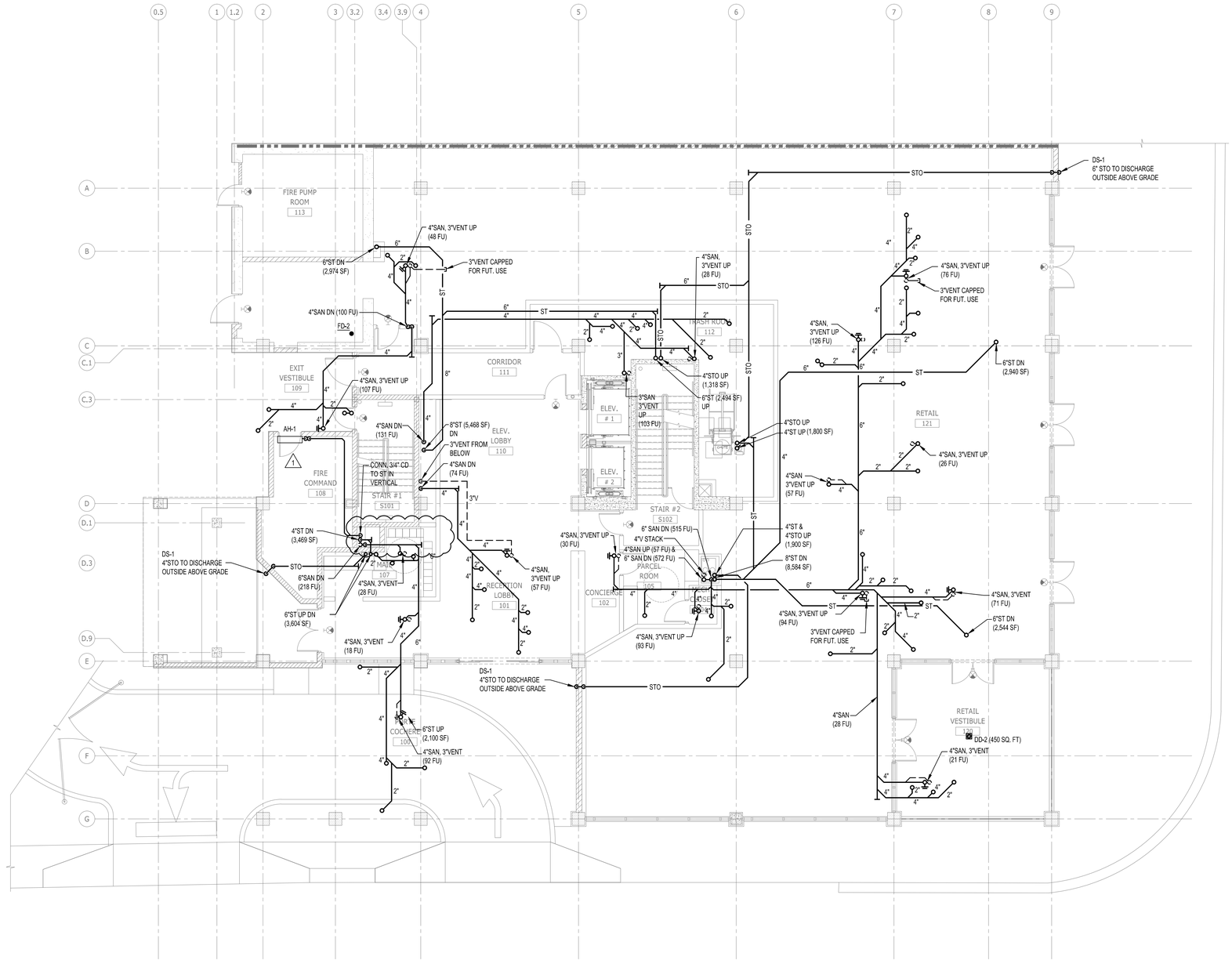
PROJECT NO.: 13270.99

P101

P101 | **BASEMENT FLOOR PLAN □GRAVITY**
1/8" □ 1□"

DRAWING NOTES

SANITARY AND STORM STACKS LOCATED INSIDE CHASES SHALL BE COORDINATED WITH DOMESTIC WATER PIPING, NATURAL GAS PIPING AND MECHANICAL CONDENSER WATER PIPING, LOCATED IN SAME CHASE.



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FIRST FLOOR PLAN ☐ GRAVITY

PROJECT NO.: 13270.99

P102

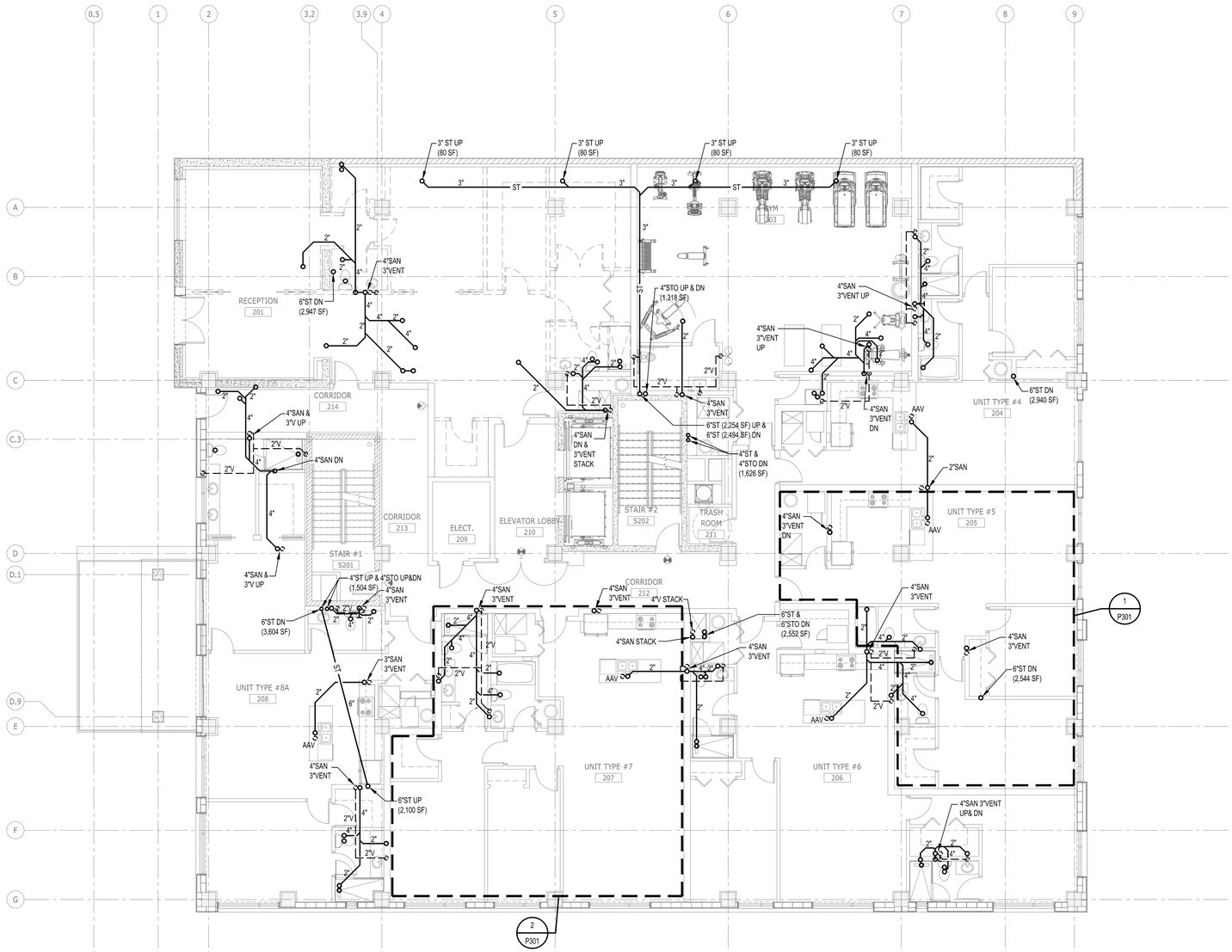
P102 | **FIRST FLOOR PLAN ☐GRAVITY**
1/8" ☐ 1☐0"

DRAWING NOTES

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REFER TO ENLARGED GRAVITY PLANS FOR PIPING LAYOUT, SIZES AND PLUMBING FIXTURES IDENTIFICATION.

PROVIDE HUB DRAIN IN A/C CLOSET FOR CONDENSATE DRAINAGE, CONNECT TO THE CLOSEST STORM PIPING AND PROVIDE BACK WATER VALVE.



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L. Roland Young Jr., PE PE#9288

L. ROLAND YOUNG JR LICENSE No. 9288 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SECOND FLOOR PLAN ☐GRAVITY

PROJECT NO.: 13270.99

P103

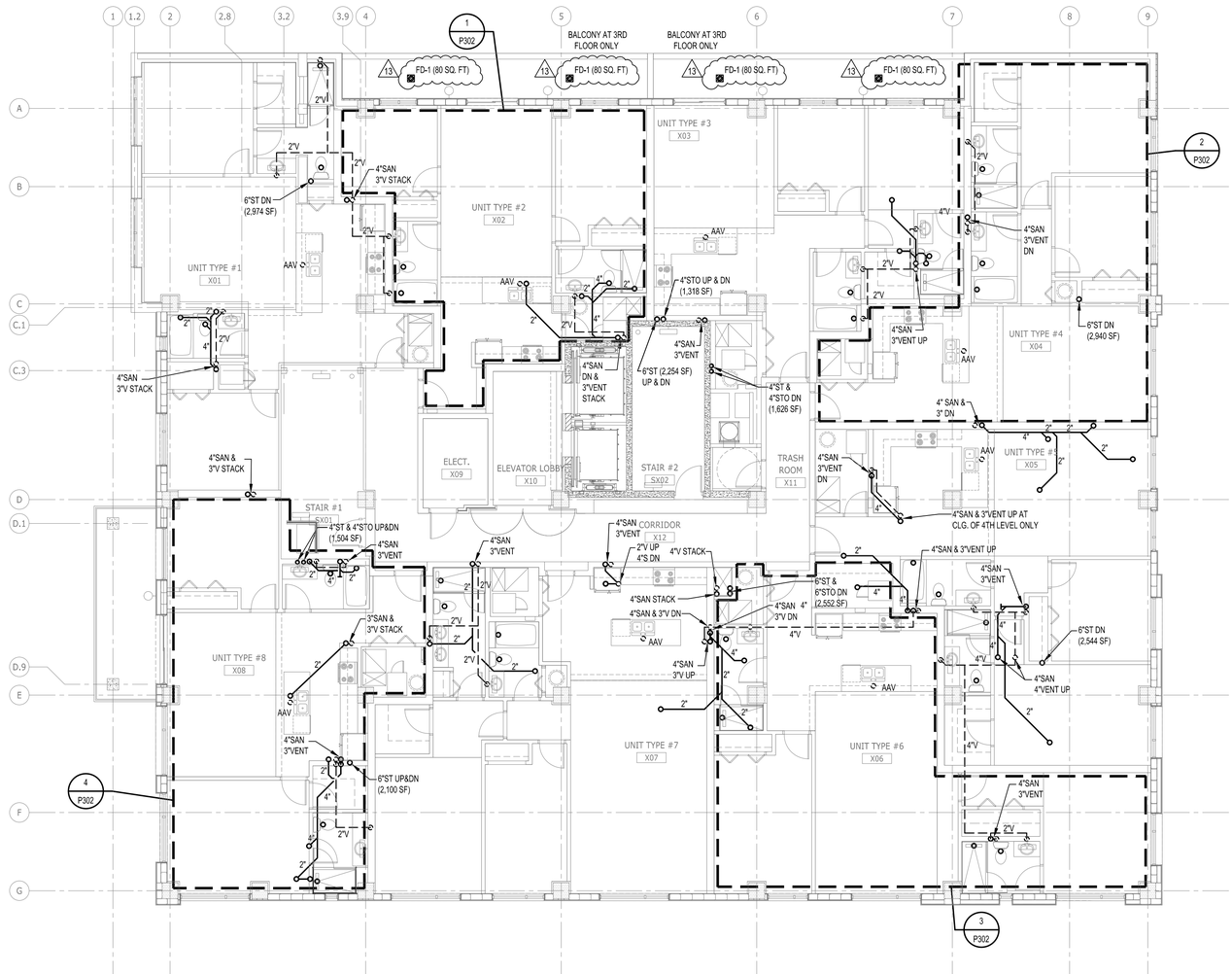
P103 | **SECOND FLOOR PLAN ☐GRAVITY**
1/8" ☐ 1☐0"

DRAWING NOTES

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REFER TO ENLARGED GRAVITY PLANS FOR PIPING LAYOUT, SIZES AND PLUMBING FIXTURES IDENTIFICATION.

PROVIDE HUB DRAIN IN A/C CLOSET FOR CONDENSATE DRAINAGE, CONNECT TO THE CLOSEST STORM PIPING AND PROVIDE BACK WATER VALVE.

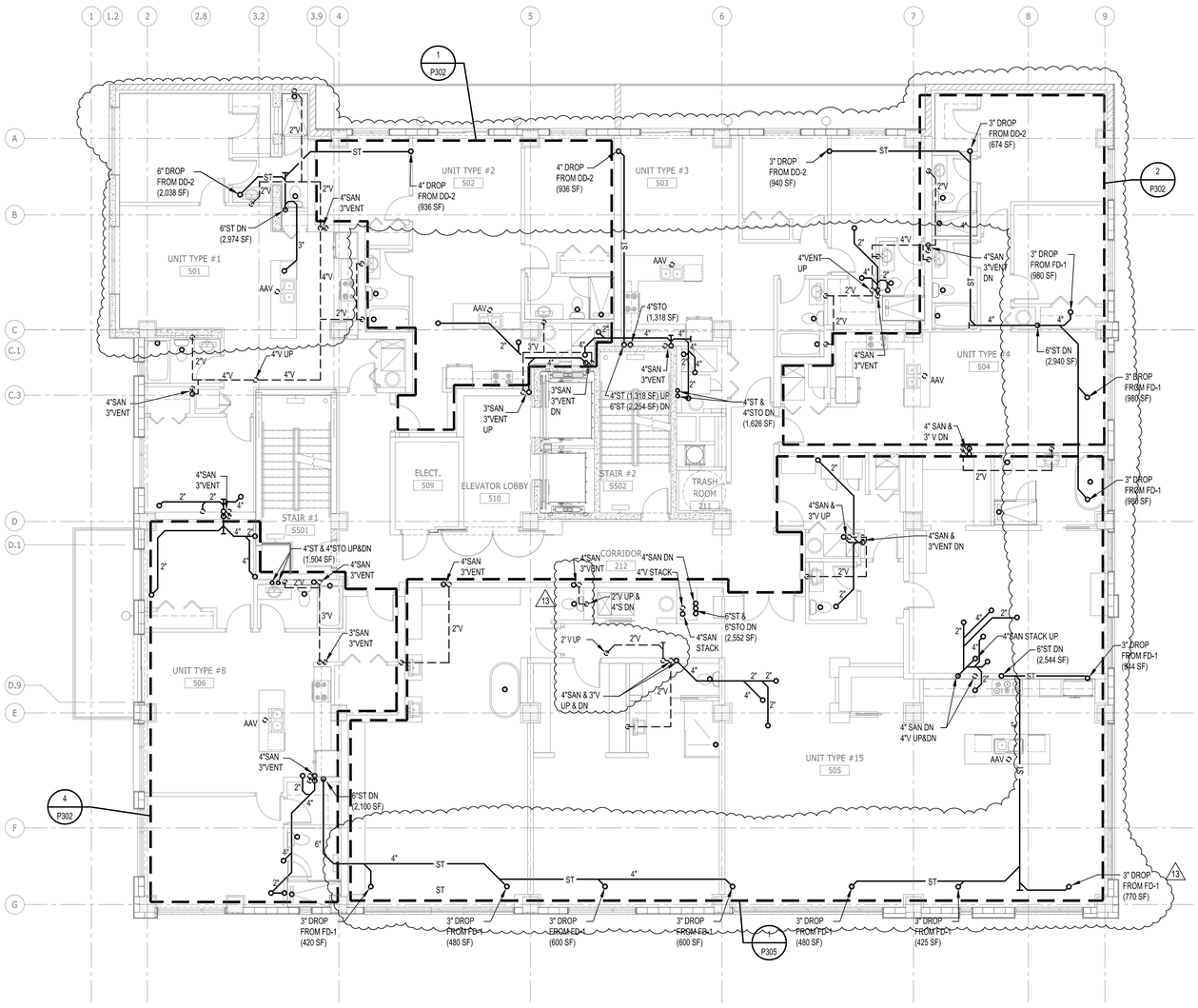

BALCONY AT 3RD FLOOR ONLY
BALCONY AT 3RD FLOOR ONLY
FD-1 (80 SQ. FT)
UNIT TYPE #1 X01
UNIT TYPE #2 X02
UNIT TYPE #3 X03
UNIT TYPE #4 X04
UNIT TYPE #5 X05
UNIT TYPE #6 X06
UNIT TYPE #7 X07
UNIT TYPE #8 X08
ELECT. X09
ELEVATOR LOBBY X10
TRASH ROOM X11
CORRIDOR X12
STAIR #1 SX01
STAIR #2 SX02
6"ST DN (2,974 SF)
4"SAN 3"V STACK
4"STO UP & DN (1,318 SF)
6"ST (2,254 SF) UP & DN
4"ST & 4"STO DN (1,626 SF)
6"ST DN (2,940 SF)
4"SAN 3"VENT DN
4"SAN & 3"VENT UP AT CLG. OF 4TH LEVEL ONLY
4"ST & 4"STO UP&DN (1,504 SF)
6"ST UP&DN (2,100 SF)
6"ST & 6"STO DN (2,552 SF)
6"ST DN (2,544 SF)
4"SAN 3"VENT UP
4"SAN & 3"V STACK
4"SAN & 3"V DN
4"SAN 3"V UP
4"SAN & 3" DN
4"SAN & 3"V STACK
4"SAN 3"V STACK
4"SAN & 3"V STACK
4"SAN & 3"V STACK
4"SAN &

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GENERAL NOTES

1.

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

L. Roland Young Jr., PE
PE 9268



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FIFTH FLOOR PLAN ☐ GRAVITY

PROJECT NO.: 13270.99

P10☐

P10☐ FIFTH FLOOR PLAN ☐GRAVITY

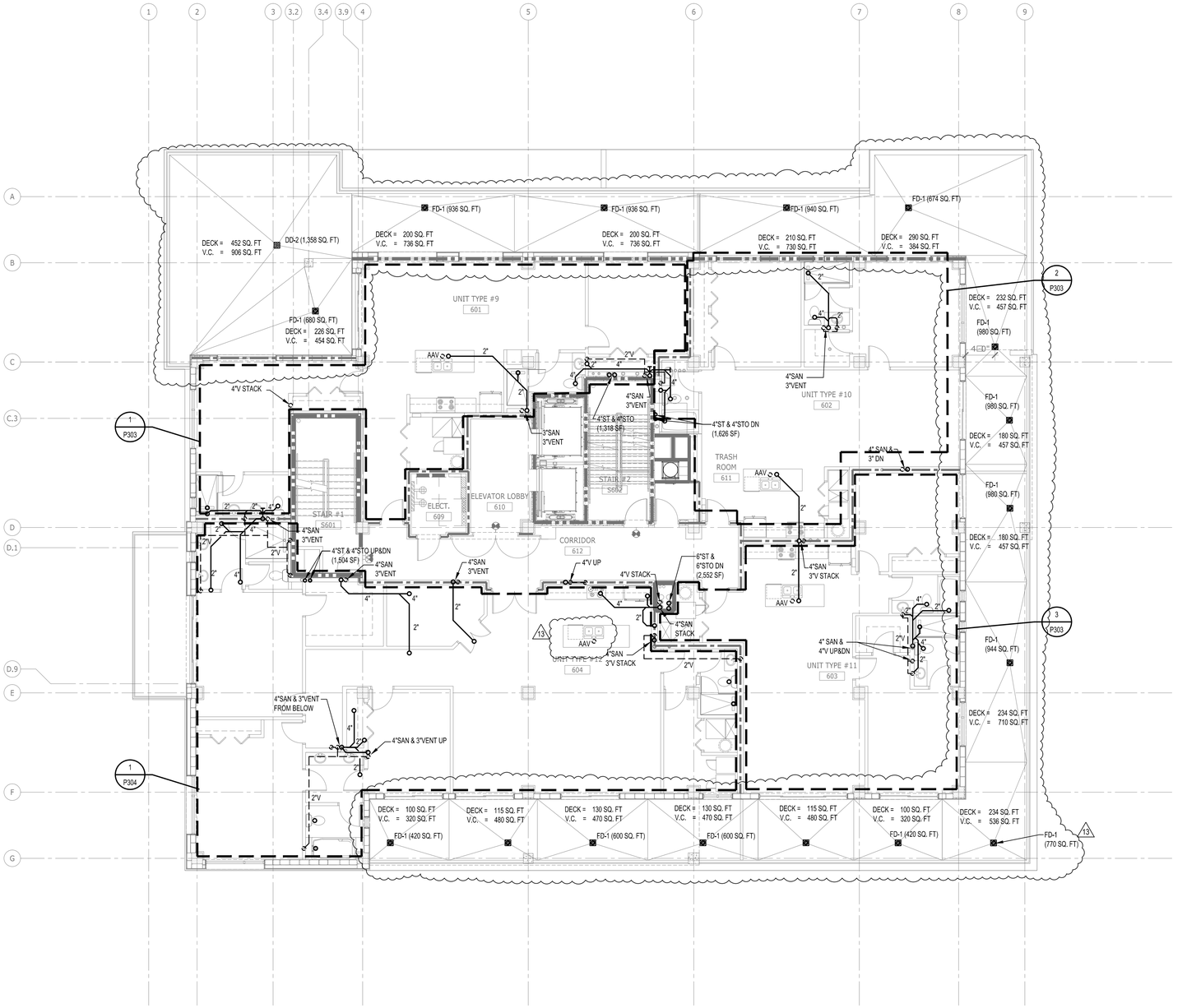
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DRAWING NOTES

SANITARY AND STORM STACKS LOCATED INSIDE CHASES SHALL BE COORDINATED WITH DOMESTIC WATER PIPING, NATURAL GAS PIPING AND MECHANICAL CONDENSER WATER PIPING, LOCATED IN SAME CHASE.

REFER TO ENLARGED GRAVITY PLANS FOR PIPING LAYOUT, SIZES AND PLUMBING FIXTURES IDENTIFICATION.

PROVIDE HUB DRAIN IN A/C CLOSET FOR CONDENSATE DRAINAGE, CONNECT TO THE CLOSEST STORM PIPING AND PROVIDE BACK WATER VALVE.



GENERAL NOTES

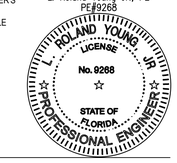
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SI□TH FLOOR PLAN □ GRAVITY

PROJECT NO.: 13270.99

P106

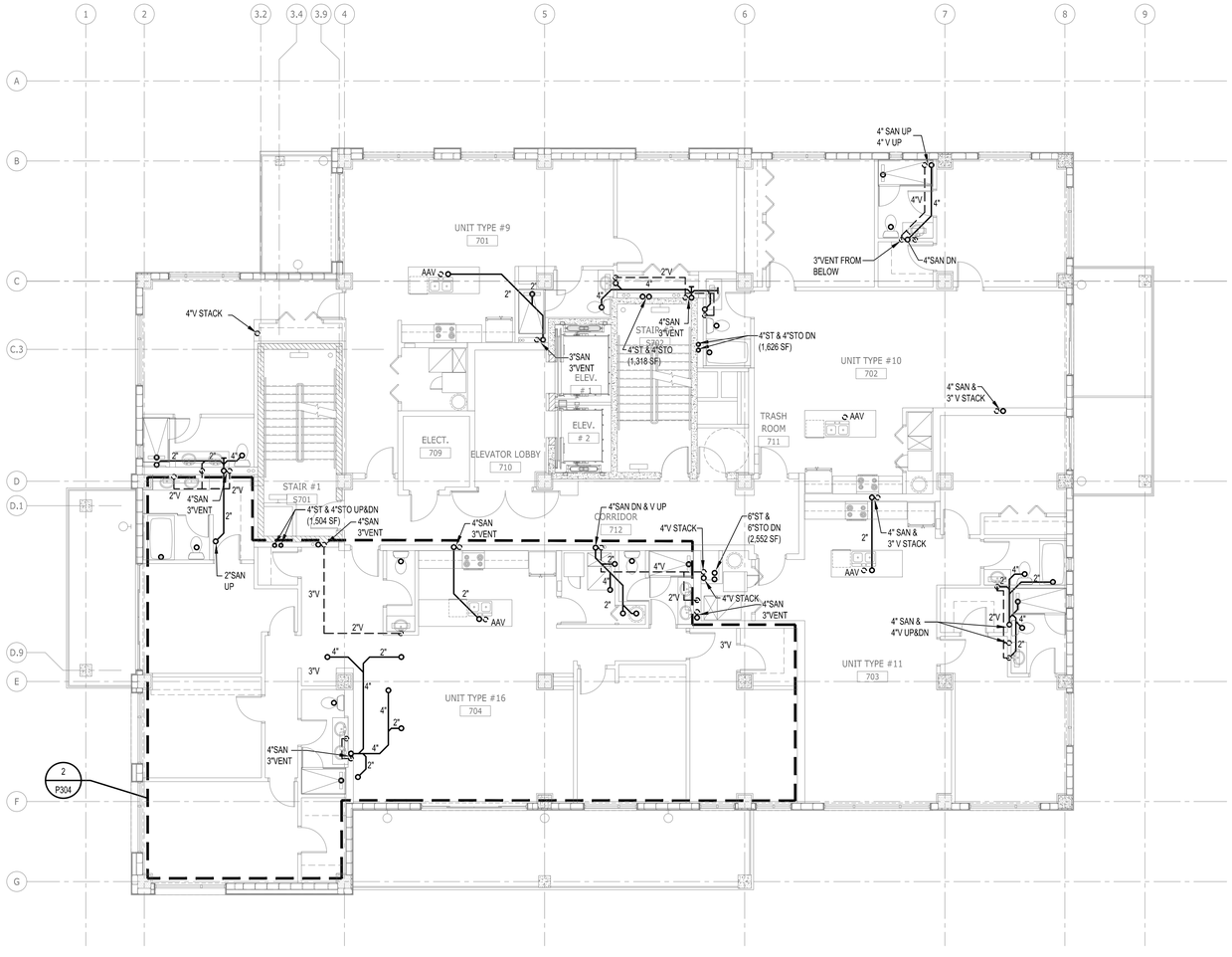
P106 | **SI□TH FLOOR PLAN □GRAVITY**
1/8" □ 1□D"

DRAWING NOTES

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SEVENTH FLOOR PLAN ☐ GRAVITY

PROJECT NO.: 13270.99

P10☐

P10☐ | SEVENTH FLOOR PLAN ☐GRAVITY

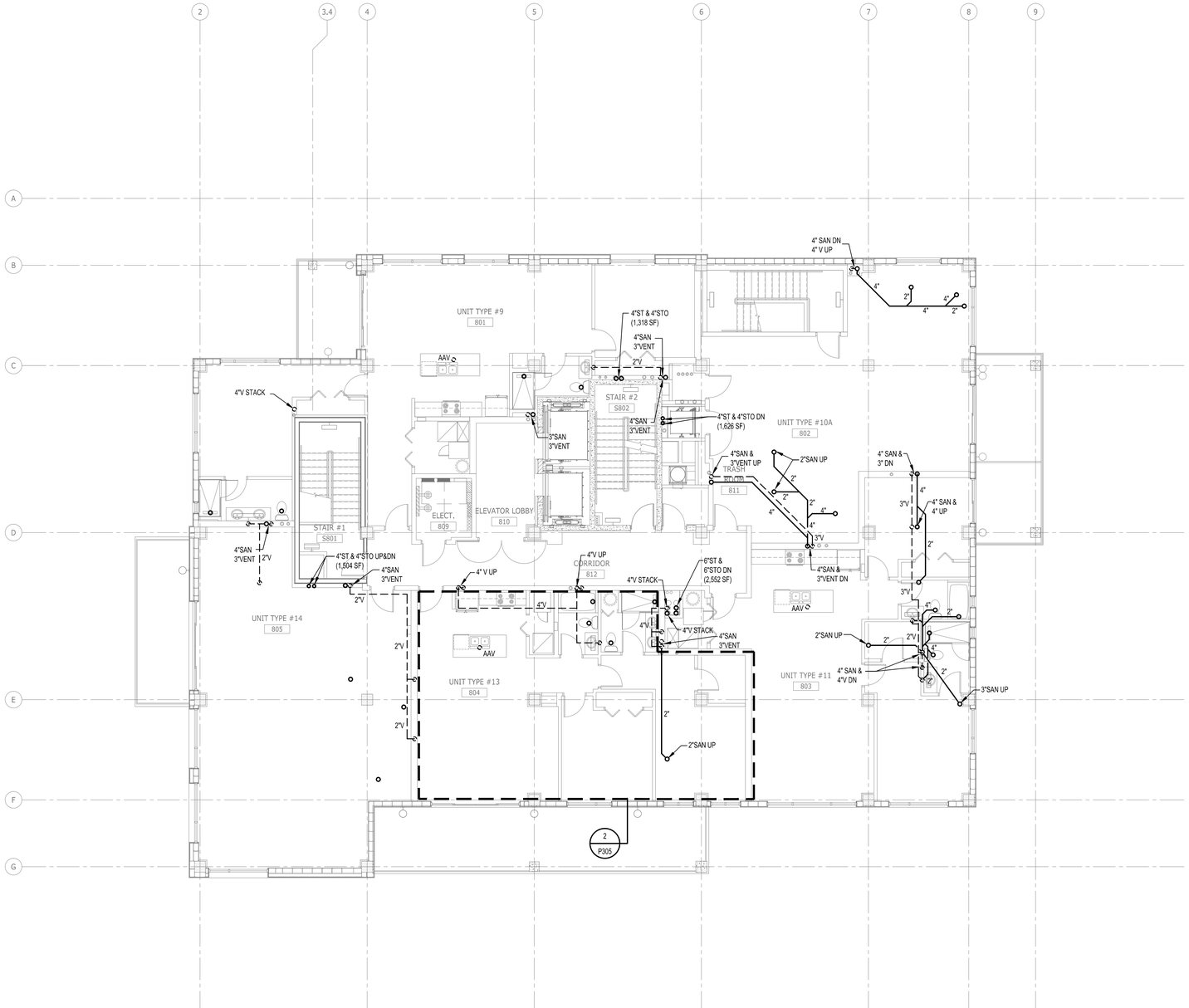
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GENERAL NOTES

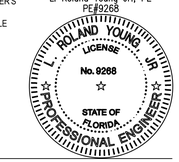
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12

EIGHT FLOOR PLAN ☐ GRAVITY

PROJECT NO.: 13270.99

P10☐

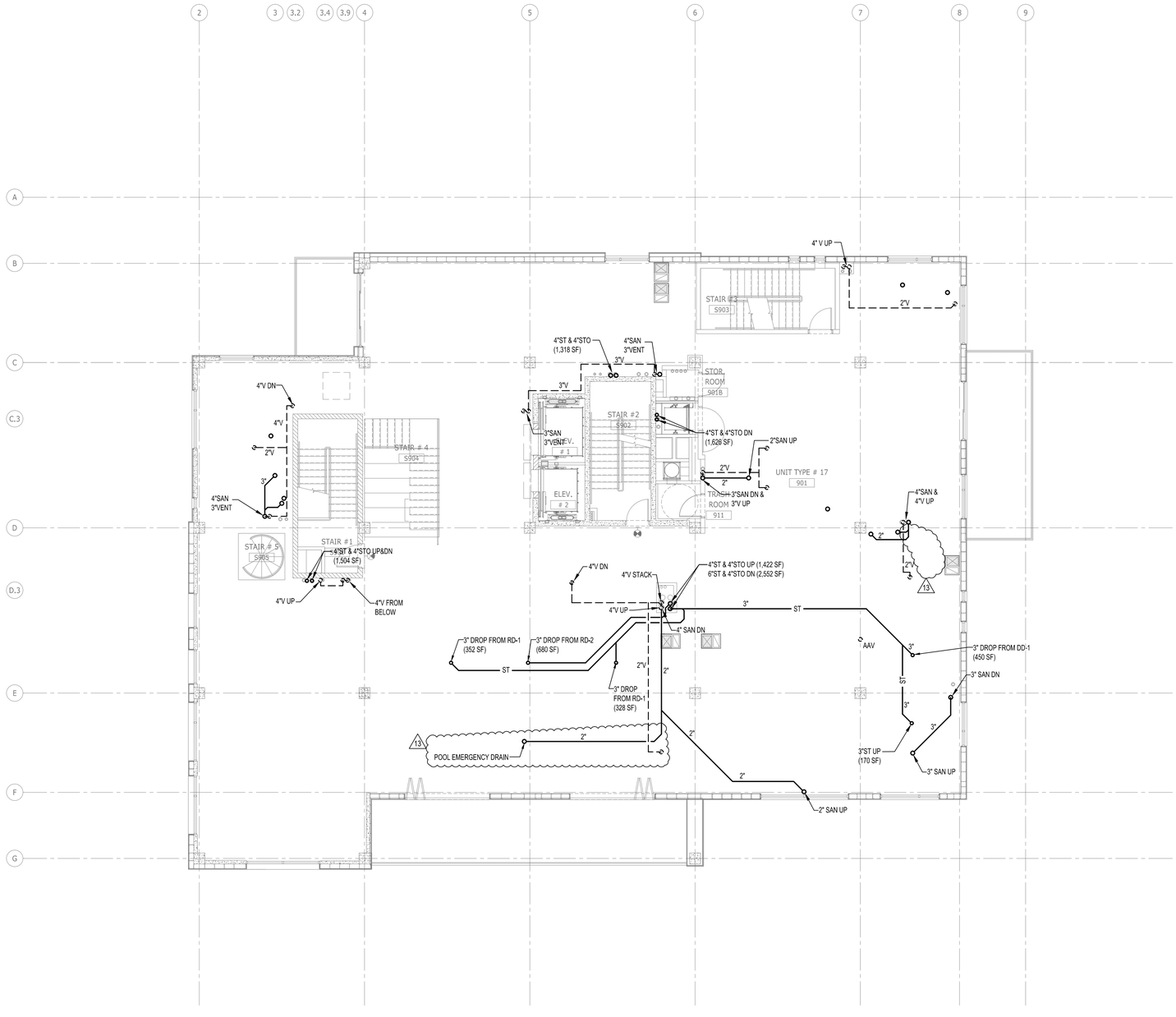
P10☐ EIGHT FLOOR PLAN ☐GRAVITY
1/8" ☐ 1☐"

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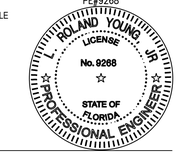
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NINTH FLOOR PLAN ☐ GRAVITY

PROJECT NO.: 13270.99

P10☐

P10☐ NINTH FLOOR PLAN ☐GRAVITY

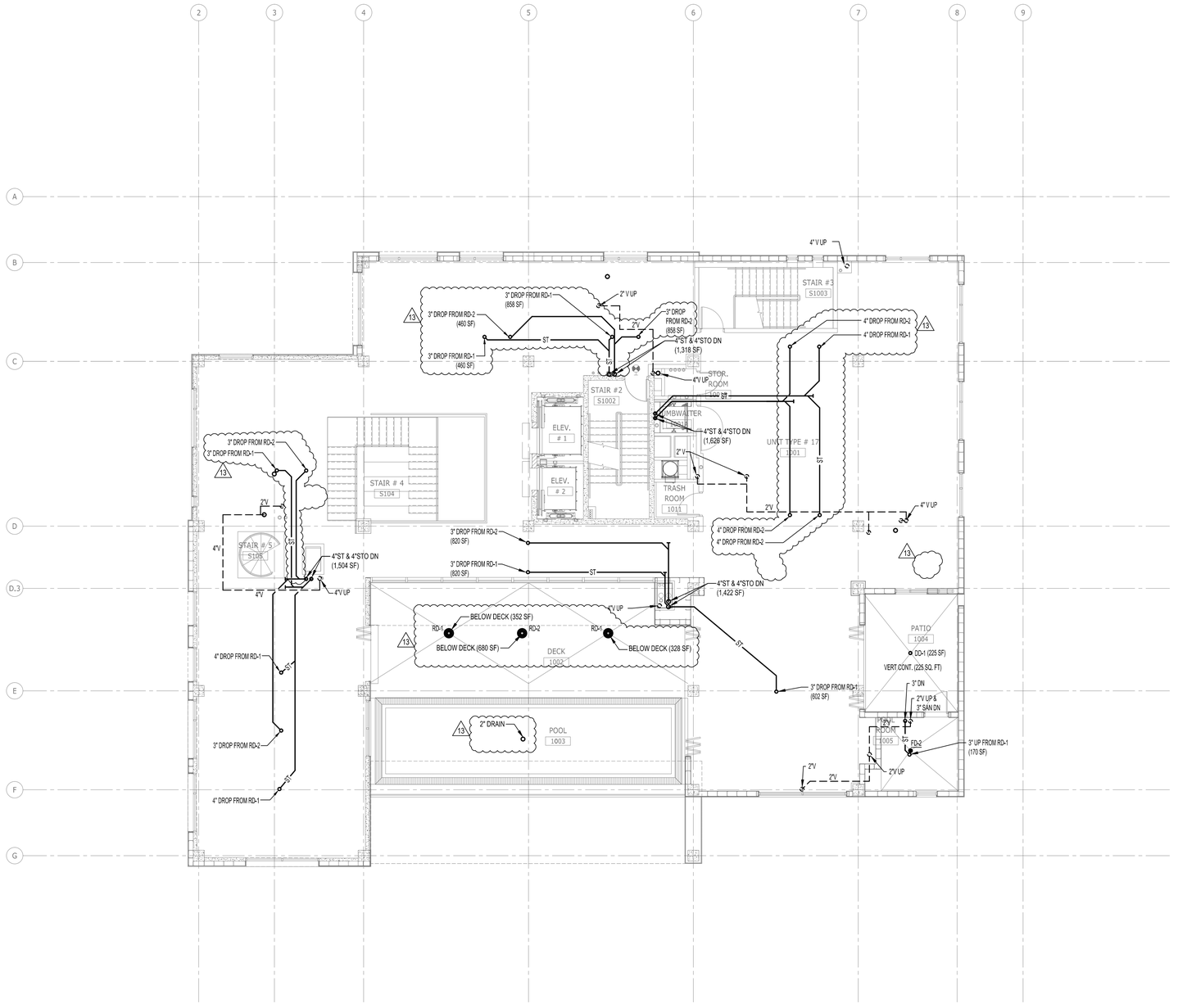
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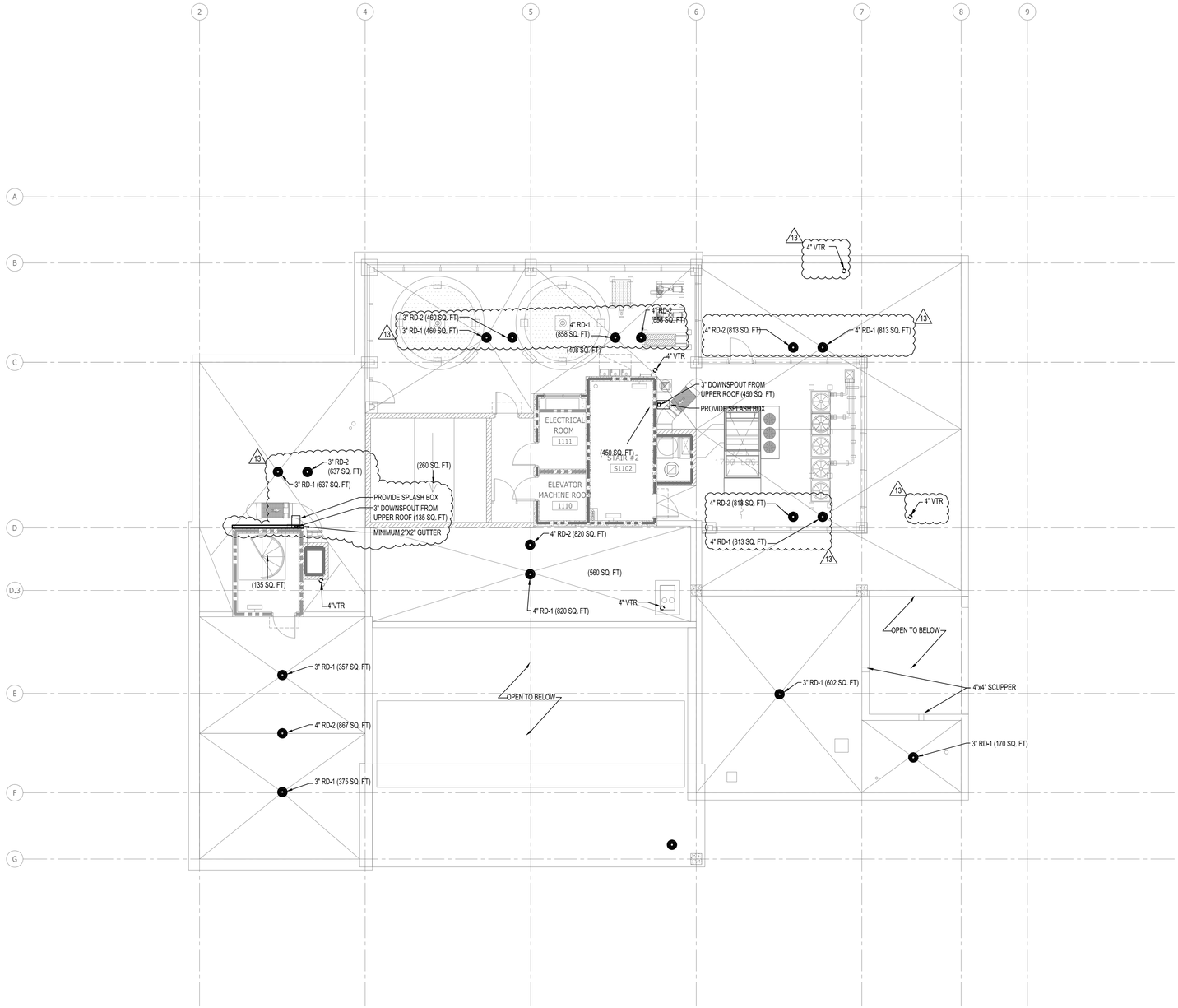
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TENTH FLOOR PLAN ☐ GRAVITY

PROJECT NO.: 13270.99

P110

P110 | **TENTH FLOOR PLAN ☐GRAVITY**
1/8" ☐ 1☐D"



GENERAL NOTES

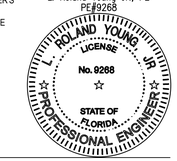
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ROOF PLAN ☐ GRAVITY

PROJECT NO.: 13270.99

P111

P111 | ROOF PLAN ☐GRAVITY

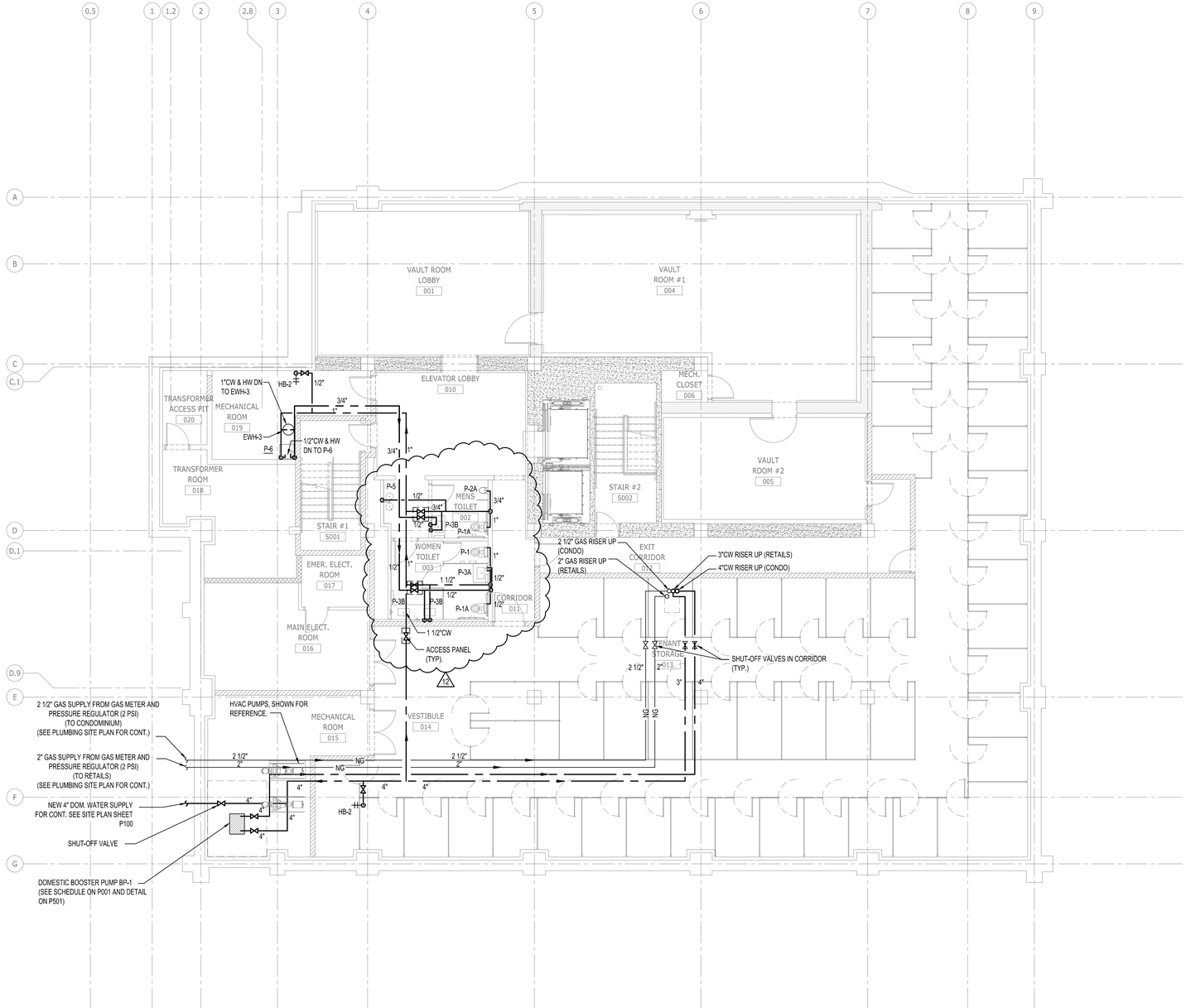
1/8" ☐ 1☐D"

DRAWING NOTES

DOMESTIC WATER PIPING AND NATURAL GAS PIPING LOCATED INSIDE CHASES SHALL BE COORDINATED WITH SANITARY AND STORM STACKS AND MECHANICAL CONDENSER WATER PIPING LOCATED IN SAME CHASE.

PROVIDE 24"X24" ACCESS PANEL IN UTILITY ROOM CEILING FOR ACCESS UNIT'S COLD WATER AND NATURAL GAS MAIN SHUT-OFF VALVES.

REFER TO NATURAL GAS RISER ON SHEET P407 FOR PIPING LAYOUT AND SIZES.



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BASEMENT FLOOR PLAN ☐PRESSURE

PROJECT NO.: 13270.99

P201

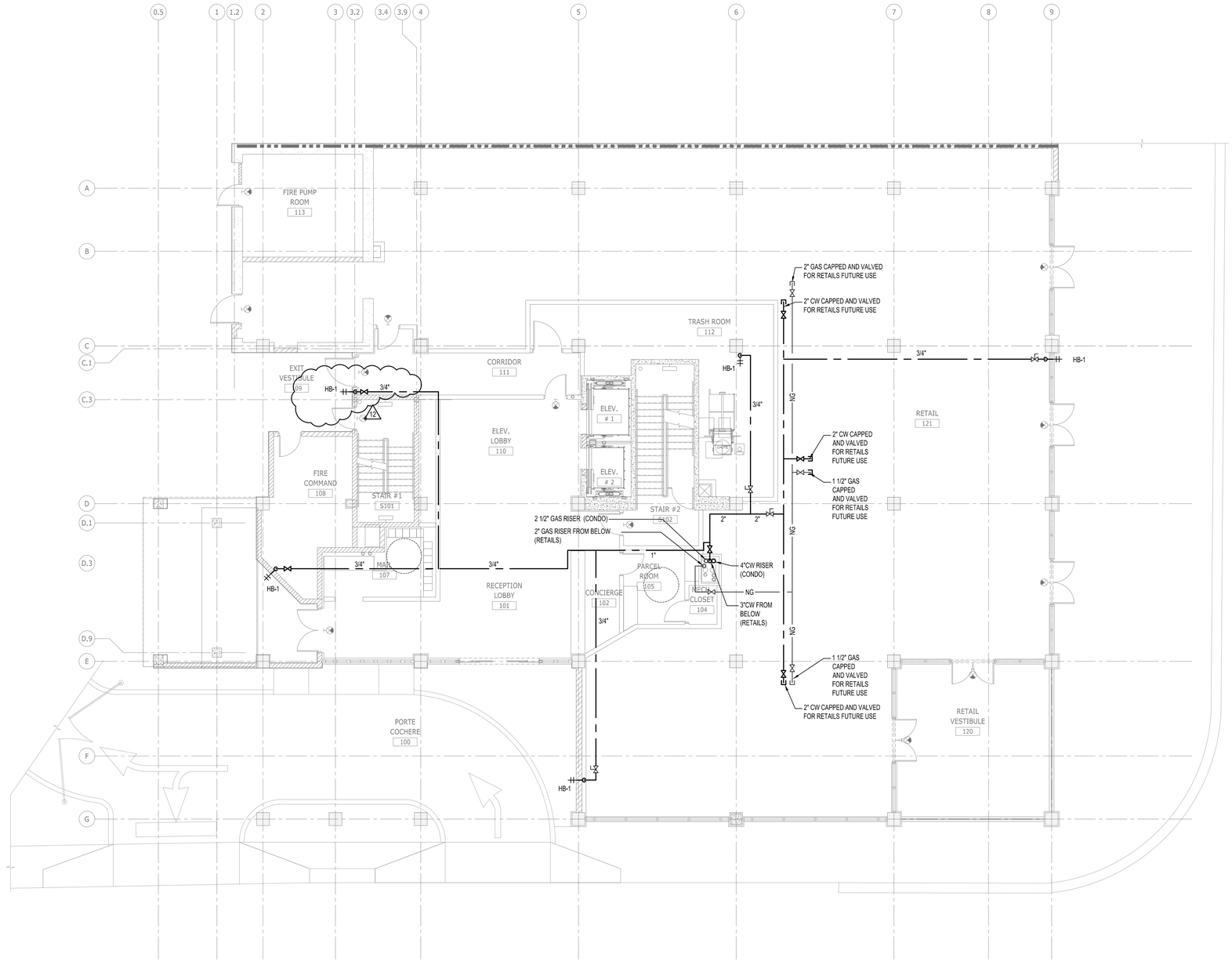
P201 | **BASEMENT FLOOR PLAN ☐PRESSURE**
1/8" ☐ 1☐"

DRAWING NOTES

DOMESTIC WATER PIPING AND NATURAL GAS PIPING LOCATED INSIDE CHASES SHALL BE COORDINATED WITH SANITARY AND STORM STACKS AND MECHANICAL CONDENSER WATER PIPING LOCATED IN SAME CHASE.

PROVIDE 24"X24" ACCESS PANEL IN UTILITY ROOM CEILING FOR ACCESS UNIT'S COLD WATER AND NATURAL GAS MAIN SHUT-OFF VALVES.

REFER TO NATURAL GAS RISER ON SHEET P407 FOR PIPING LAYOUT AND SIZES.



GENERAL NOTES

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

L. Roland Young Jr., PE
PE#9268

L. ROLAND YOUNG, JR. LICENSE No. 9268 STATE OF FLORIDA PROFESSIONAL ENGINEER

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THE SKYVIEW CONDOMINIUMS

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FIRST FLOOR PLAN ☐ PRESSURE

PROJECT NO.: 13270.99

P202

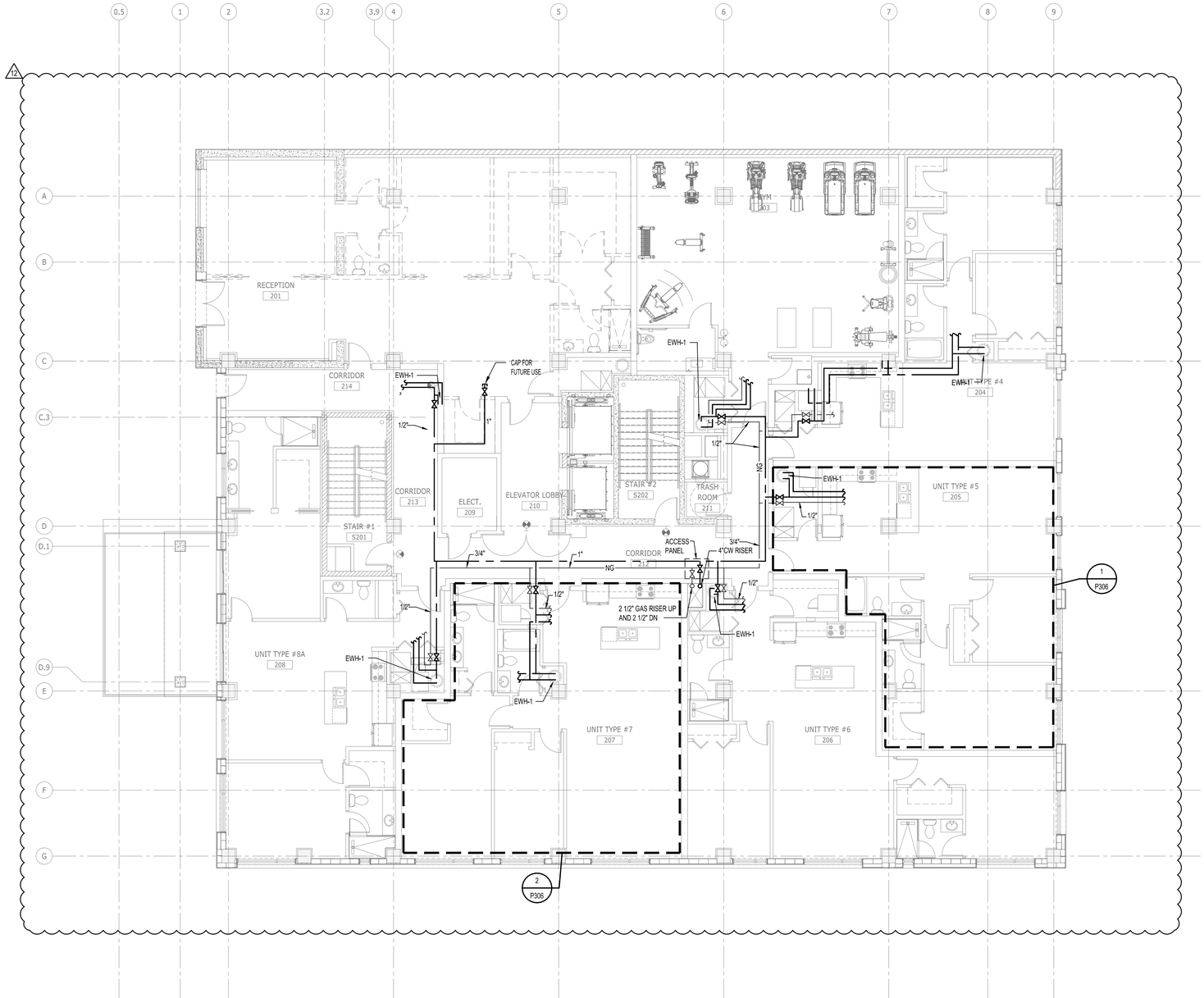
P202 | **FIRST FLOOR PLAN ☐PRESSURE**
1/8" ☐ 1☐0"

DRAWING NOTES

DOMESTIC WATER PIPING AND NATURAL GAS PIPING LOCATED INSIDE CHASES SHALL BE COORDINATED WITH SANITARY AND STORM STACKS AND MECHANICAL CONDENSER WATER PIPING LOCATED IN SAME CHASE.

PROVIDE 24"X24" ACCESS PANEL IN UTILITY ROOM CEILING FOR ACCESS UNIT'S COLD WATER AND NATURAL GAS MAIN SHUT-OFF VALVES.

REFER TO ENLARGED PRESSURE PLANS AND RISER FOR DOEMSTIC WATER AND NATURAL GAS PIPING LAYOUT, SIZES AND UNITS PLUMBING FIXTURES IDENTIFICATION.



GENERAL NOTES

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SECOND FLOOR PLAN ☐PRESSURE

PROJECT NO.: 13270.99

P203

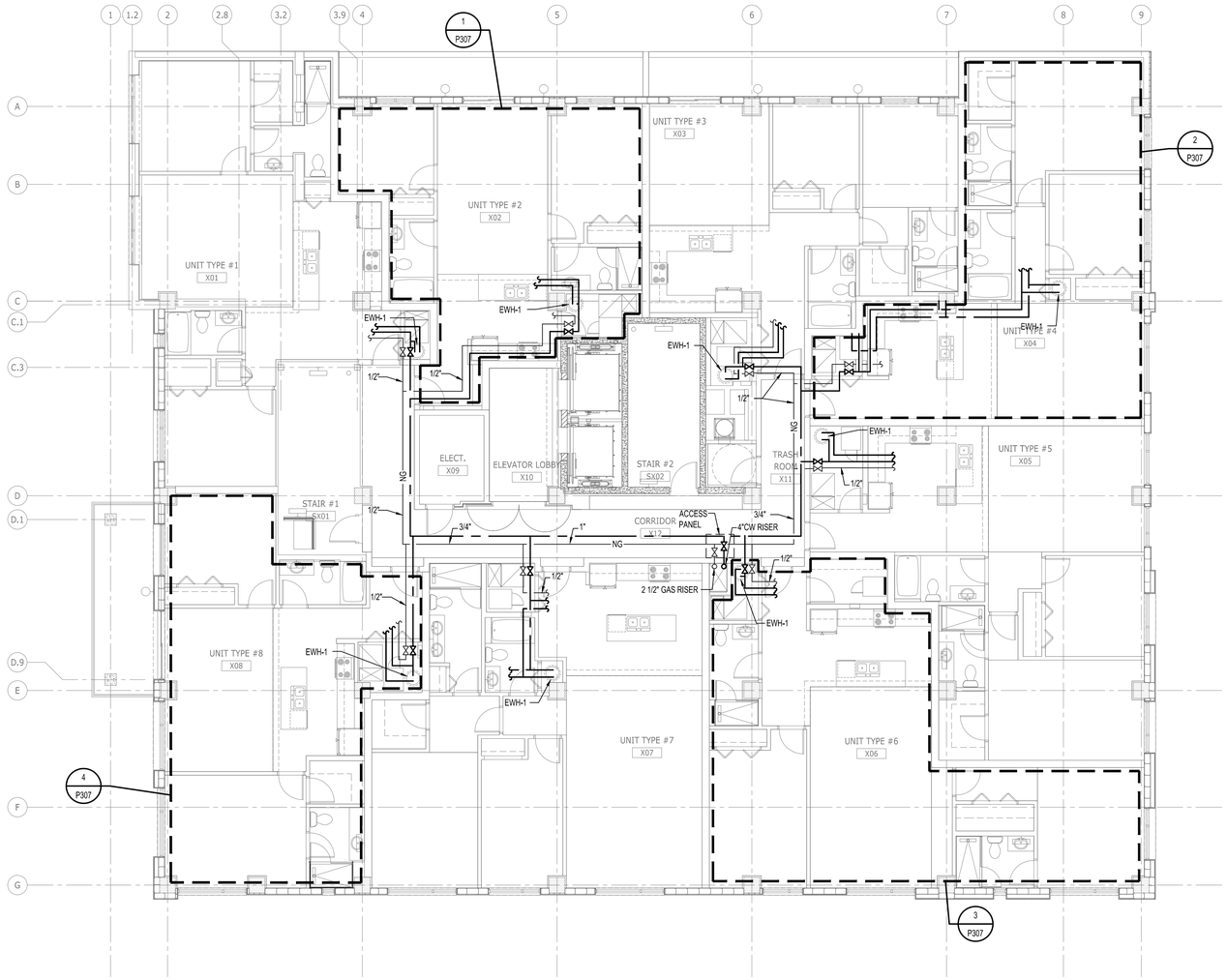
P203 | **SECOND FLOOR PLAN ☐PRESSURE**
1/8" ☐ 1☐0"

DRAWING NOTES

DOMESTIC WATER PIPING AND NATURAL GAS PIPING LOCATED INSIDE CHASES SHALL BE COORDINATED WITH SANITARY AND STORM STACKS AND MECHANICAL CONDENSER WATER PIPING LOCATED IN SAME CHASE.

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THIRD ☐FOURTH FLOOR PLAN ☐PRESSURE

PROJECT NO.: 13270.99

P204

P204 | **THIRD ☐FOURTH FLOOR PLAN ☐PRESSURE**

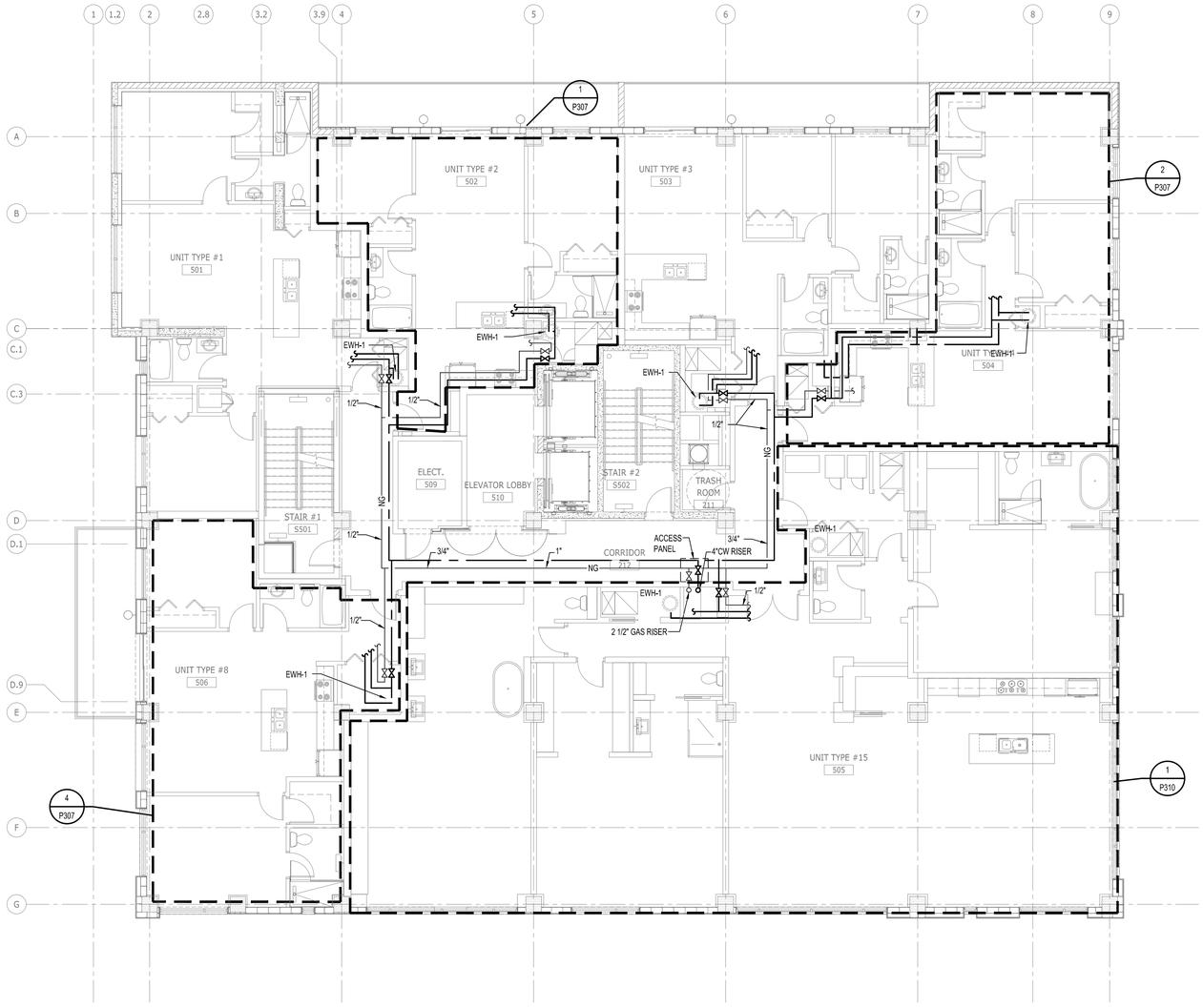
1/8" ☐ 1☐D"

DRAWING NOTES

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GENERAL NOTES

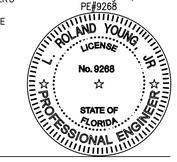
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12

FIFTH FLOOR PLAN ☐ PRESSURE

PROJECT NO.: 13270.99

P20☐

P20☐ | **FIFTH FLOOR PLAN ☐PRESSURE**

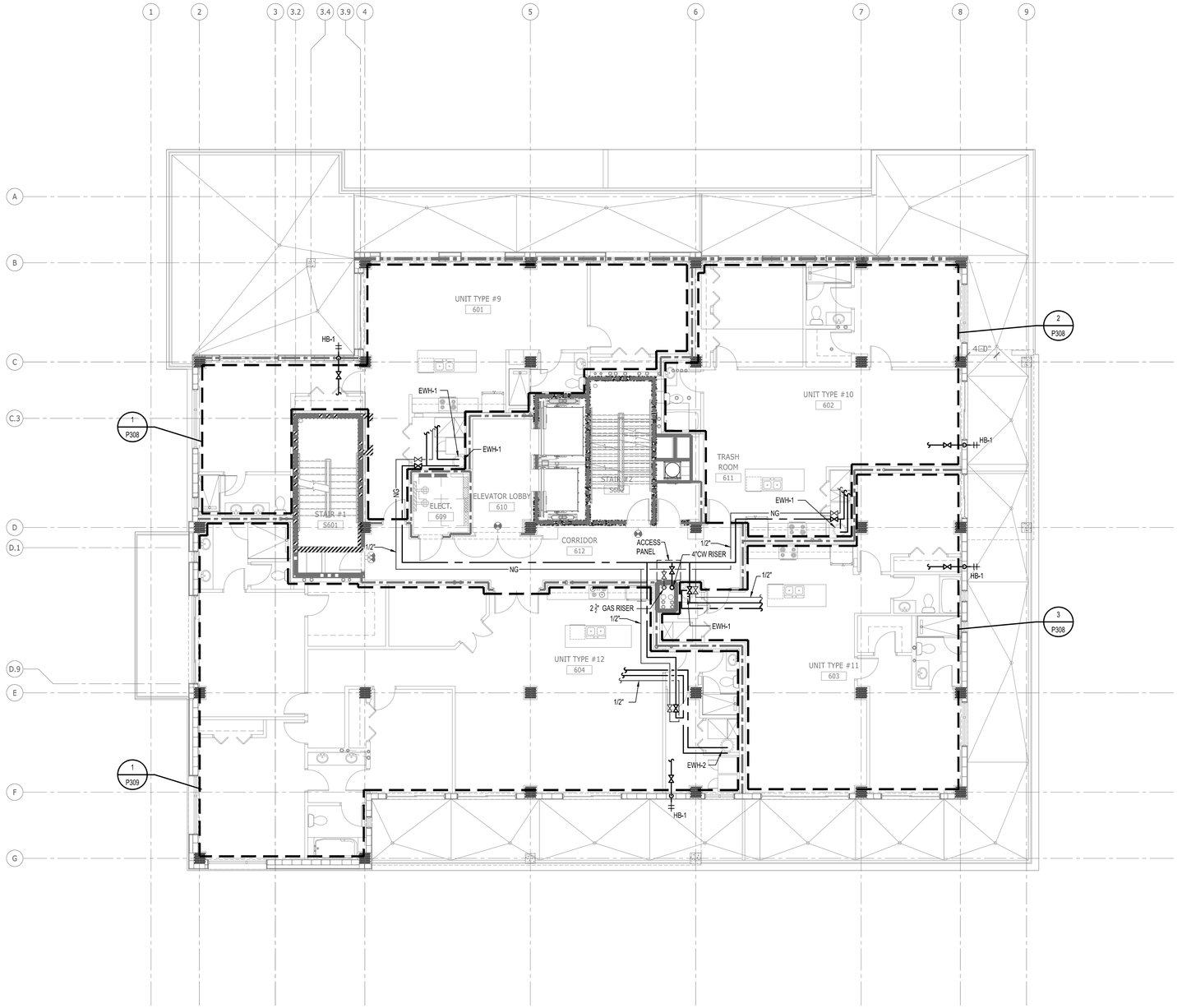
1/8" ☐ 1☐D"

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L. Roland Young Jr., PE
PE#9288

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SI□TH FLOOR PLAN □ PRESSURE

PROJECT NO.: 13270.99

P206

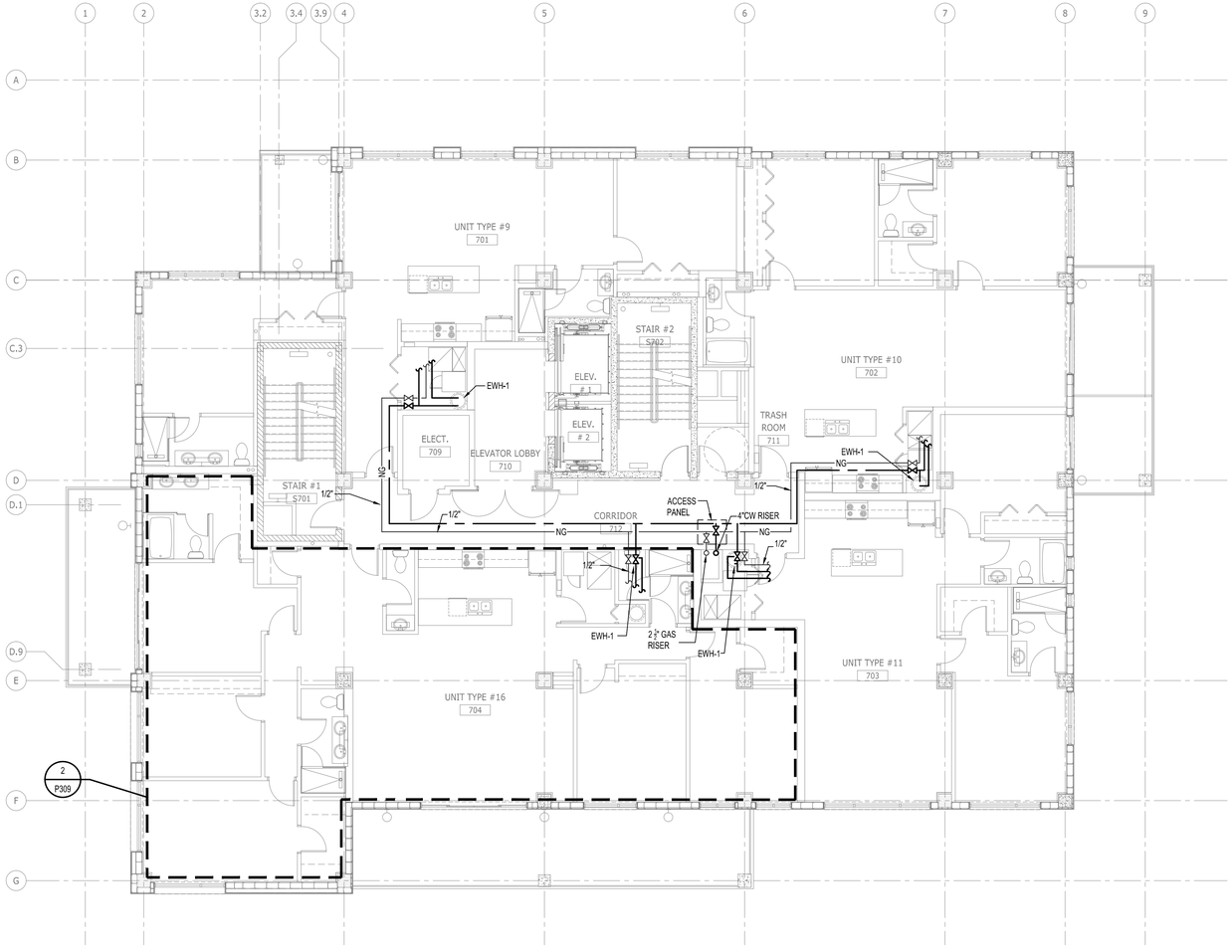
P206 | **SI□TH FLOOR PLAN □PRESSURE**
1/8" □ 1□0"

DRAWING NOTES

DOMESTIC WATER PIPING AND NATURAL GAS PIPING LOCATED INSIDE CHASES SHALL BE COORDINATED WITH SANITARY AND STORM STACKS AND MECHANICAL CONDENSER WATER PIPING LOCATED IN SAME CHASE.

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THE SKYVIEW CONDOMINIUMS

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SEVENTH FLOOR PLAN ☐ PRESSURE

PROJECT NO.: 13270.99

P20☐

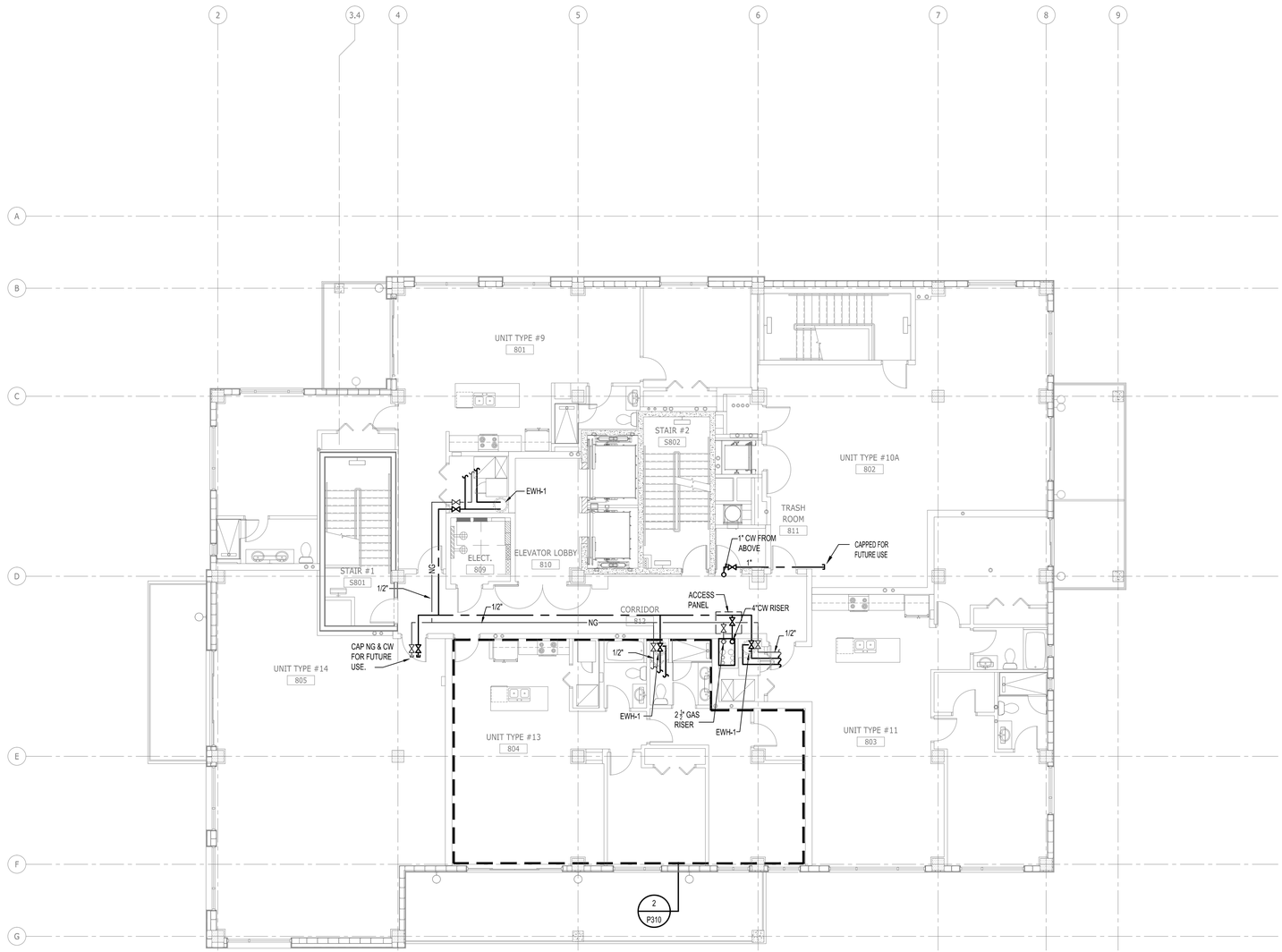
P20☐ | **SEVENTH FLOOR PLAN ☐PRESSURE**
1/8" ☐ 1☐0"

DRAWING NOTES

DOMESTIC WATER PIPING AND NATURAL GAS PIPING LOCATED INSIDE CHASES SHALL BE COORDINATED WITH SANITARY AND STORM STACKS AND MECHANICAL CONDENSER WATER PIPING LOCATED IN SAME CHASE.

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400 CLEVELAND, LLC.
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CLEARWATER, FLORIDA 33755

EIGHT FLOOR PLAN ☐ PRESSURE

PROJECT NO.: 13270.99

P20☐

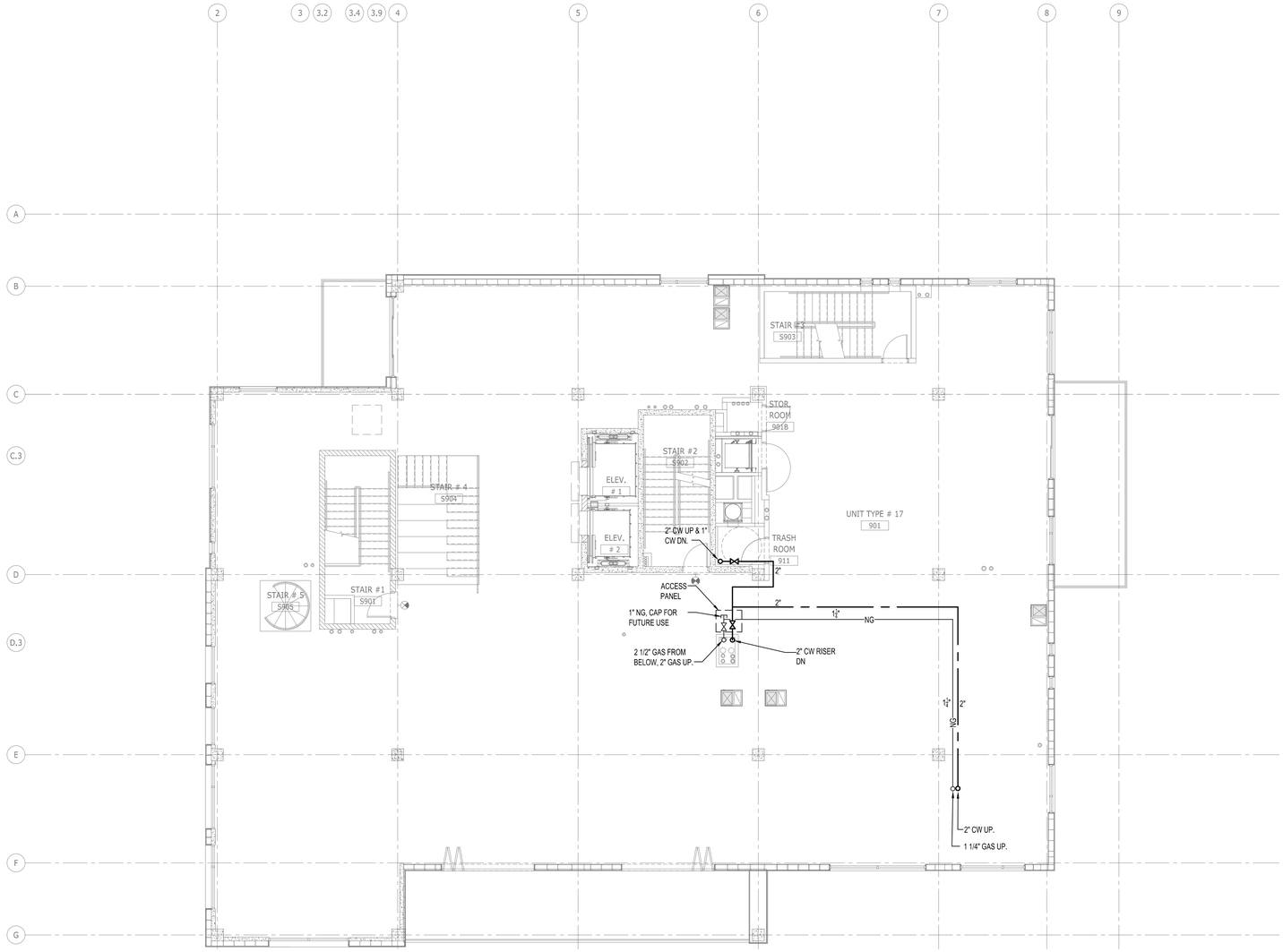
P20☐ EIGHT FLOOR PLAN ☐PRESSURE
1/8" ☐ 1☐D"

DRAWING NOTES

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

L. Roland Young Jr., PE
PE#9268

L. ROLAND YOUNG JR. LICENSE No. 9268 STATE OF FLORIDA PROFESSIONAL ENGINEER

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THE SKYVIEW CONDOMINIUMS

400 CLEVELAND, LLC.
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CLEARWATER, FLORIDA 33755

NINTH FLOOR PLAN ☐ PRESSURE

PROJECT NO.: 13270.99

P20☐

P20☐ NINTH FLOOR PLAN ☐PRESSURE

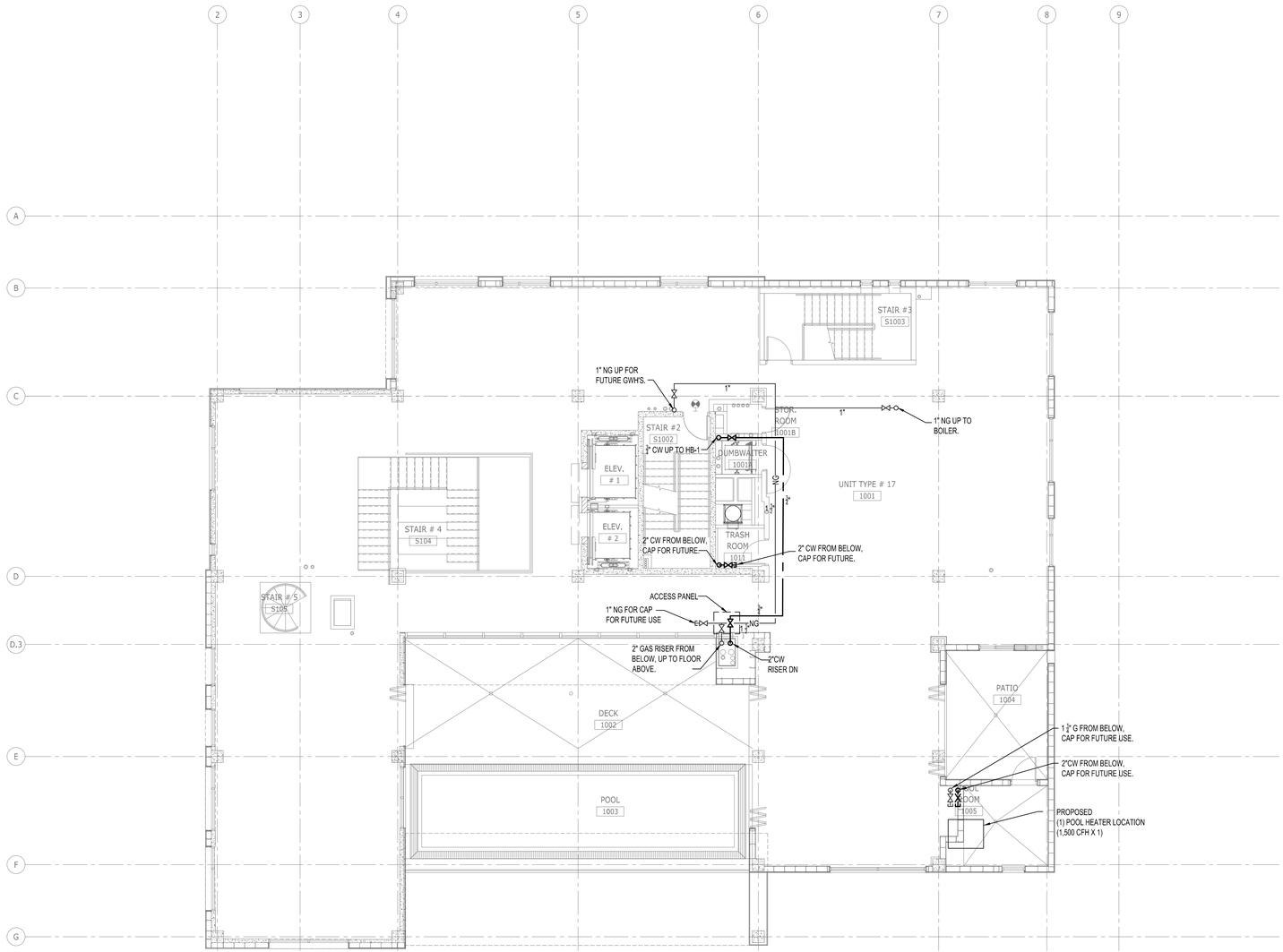
1/8" ☐ 1☐D"

DRAWING NOTES

DOMESTIC WATER PIPING AND NATURAL GAS PIPING LOCATED INSIDE CHASES SHALL BE COORDINATED WITH SANITARY AND STORM STACKS AND MECHANICAL CONDENSER WATER PIPING LOCATED IN SAME CHASE.

PROVIDE 24"X24" ACCESS PANEL IN UTILITY ROOM CEILING FOR ACCESS UNIT'S COLD WATER AND NATURAL GAS MAIN SHUT-OFF VALVES.

REFER TO ENLARGED PRESSURE PLANS AND RISER FOR DOEMSTIC WATER AND NATURAL GAS PIPING LAYOUT, SIZES AND UNITS PLUMBING FIXTURES IDENTIFICATION.



GENERAL NOTES

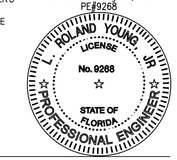
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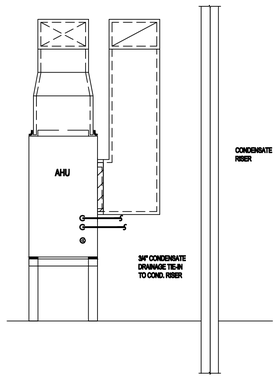
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TENTH FLOOR PLAN ☐ PRESSURE

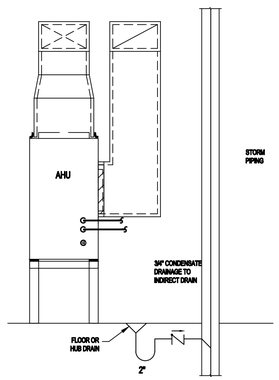
PROJECT NO.: 13270.99

P210

P210 | **TENTH FLOOR PLAN ☐PRESSURE**
1/8" ☐ 1☐0"



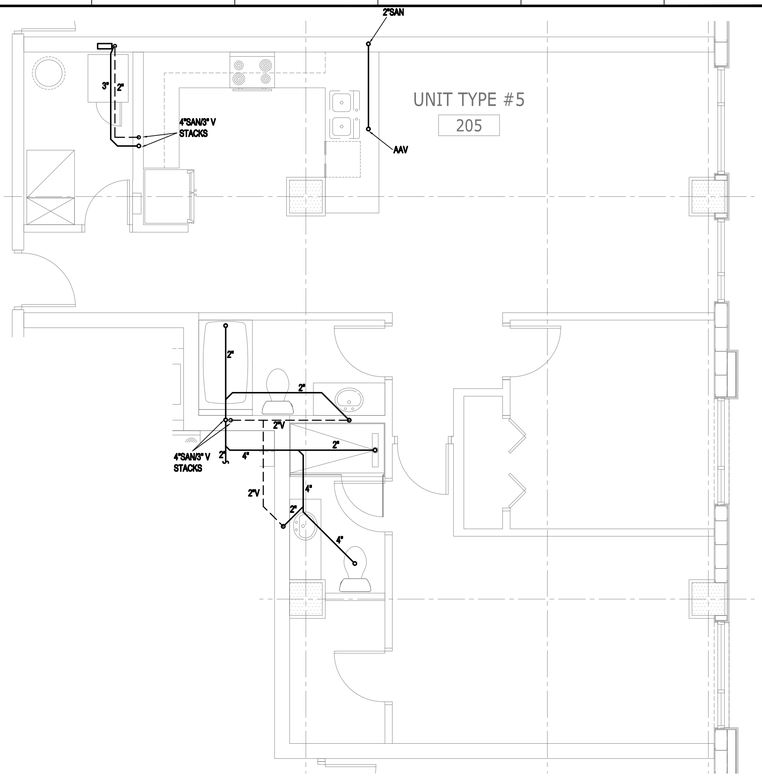
TYP. CONNECTION TO A COND. RISER



TYP. CONNECTION TO A STORM R.W.L.

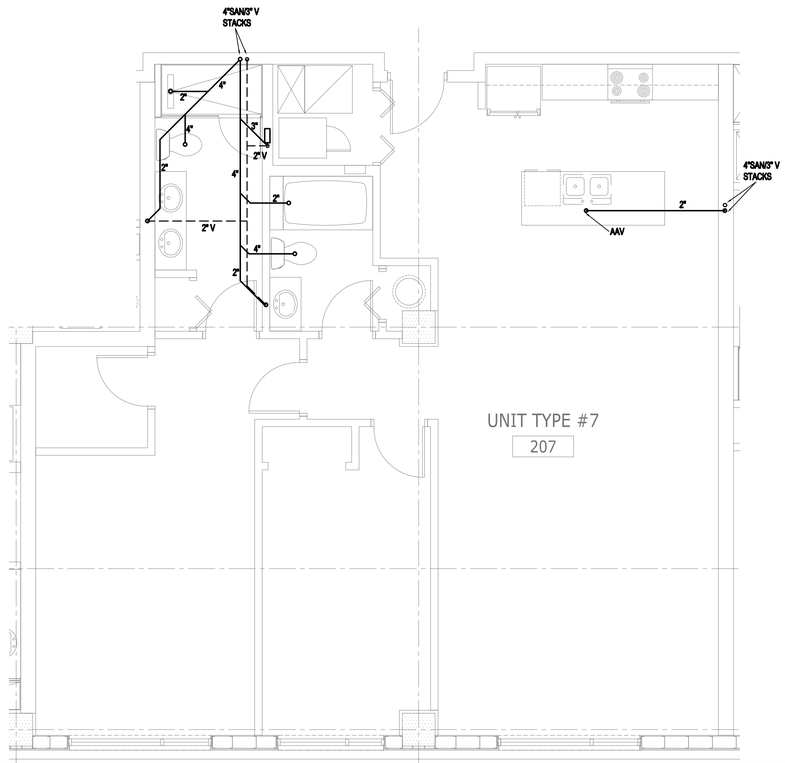
WSHP ☐TYPICAL COND. DRAINAGE CONNECTION

N.T.S. ☐TYP. FOR SHEETS P301 THRU P305☐



1 ENLARGED GRAVITY PLAN ☐UNIT ☐

1/4" ☐ 1☐"



2 ENLARGED GRAVITY PLAN ☐UNIT ☐

1/4" ☐ 1☐"

3 ENLARGED GRAVITY PLAN ☐UNIT 3

1/4" ☐ 1☐"

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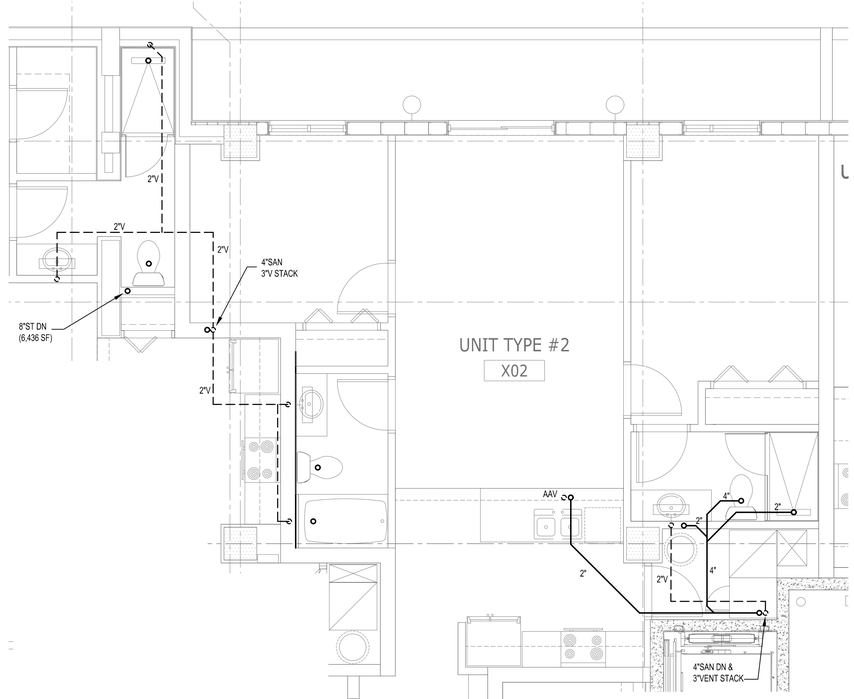
THE SKYVIEW CONDOMINIUMS

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ENLARGED PLANS ☐ GRAVITY

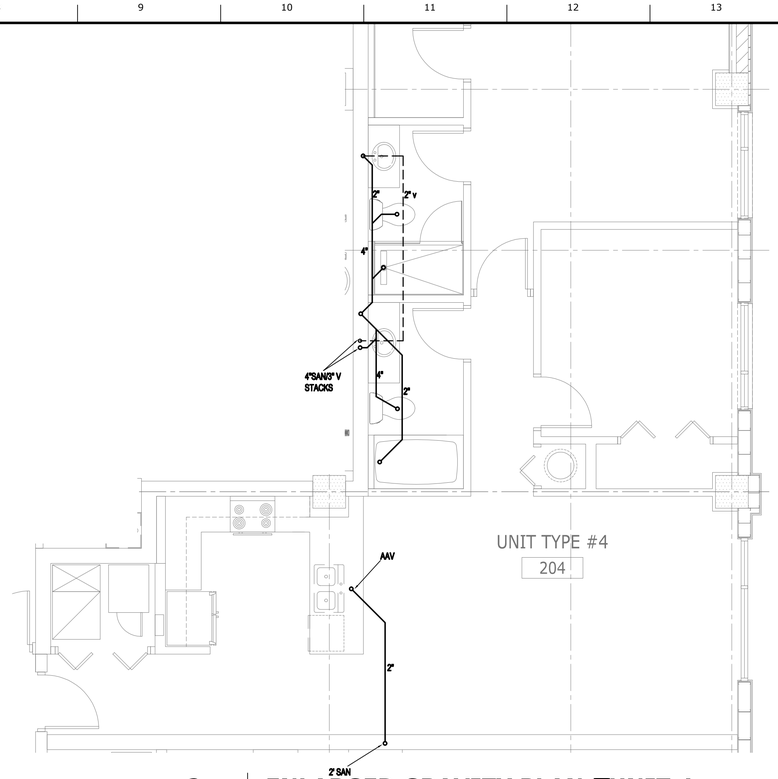
PROJECT NO.: 13270.99

P301



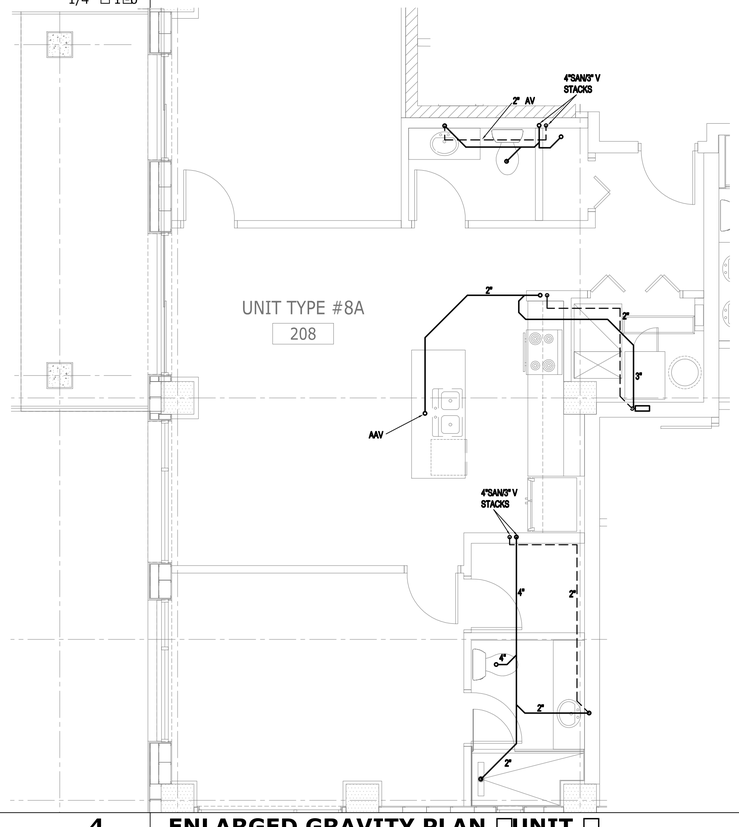
2 ENLARGED GRAVITY PLAN ☐UNIT 2

1/4" ☐ 1☐D"



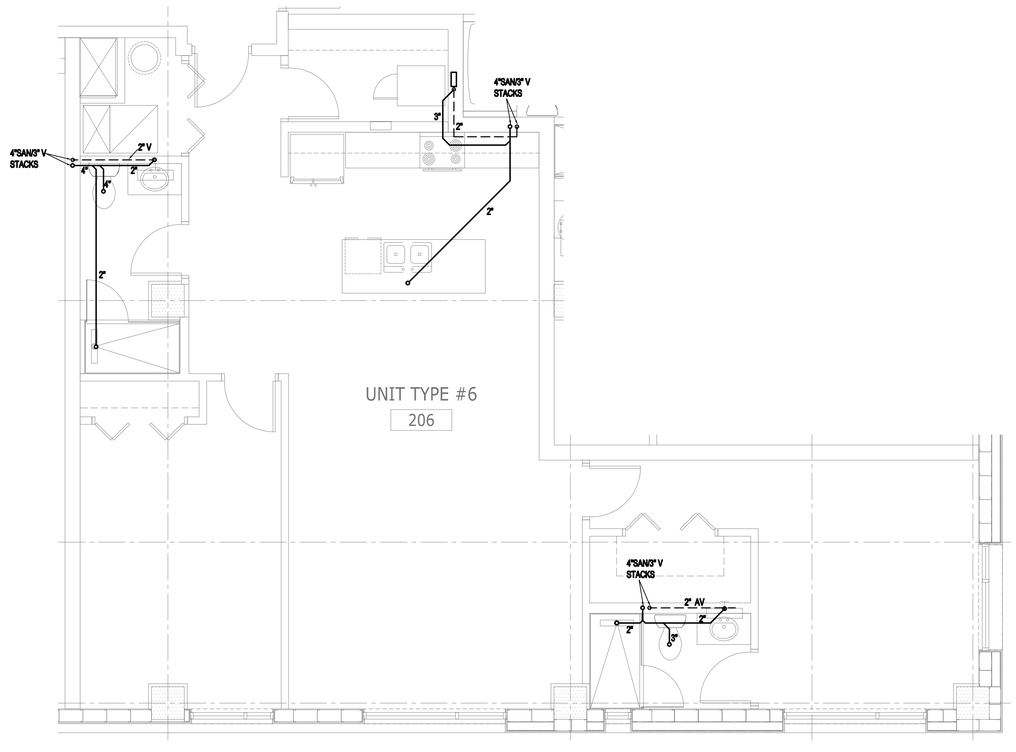
2 ENLARGED GRAVITY PLAN ☐UNIT 4

1/4" ☐ 1☐D"



4 ENLARGED GRAVITY PLAN ☐UNIT ☐

1/4" ☐ 1☐D"



3 ENLARGED GRAVITY PLAN ☐UNIT 6

1/4" ☐ 1☐D"

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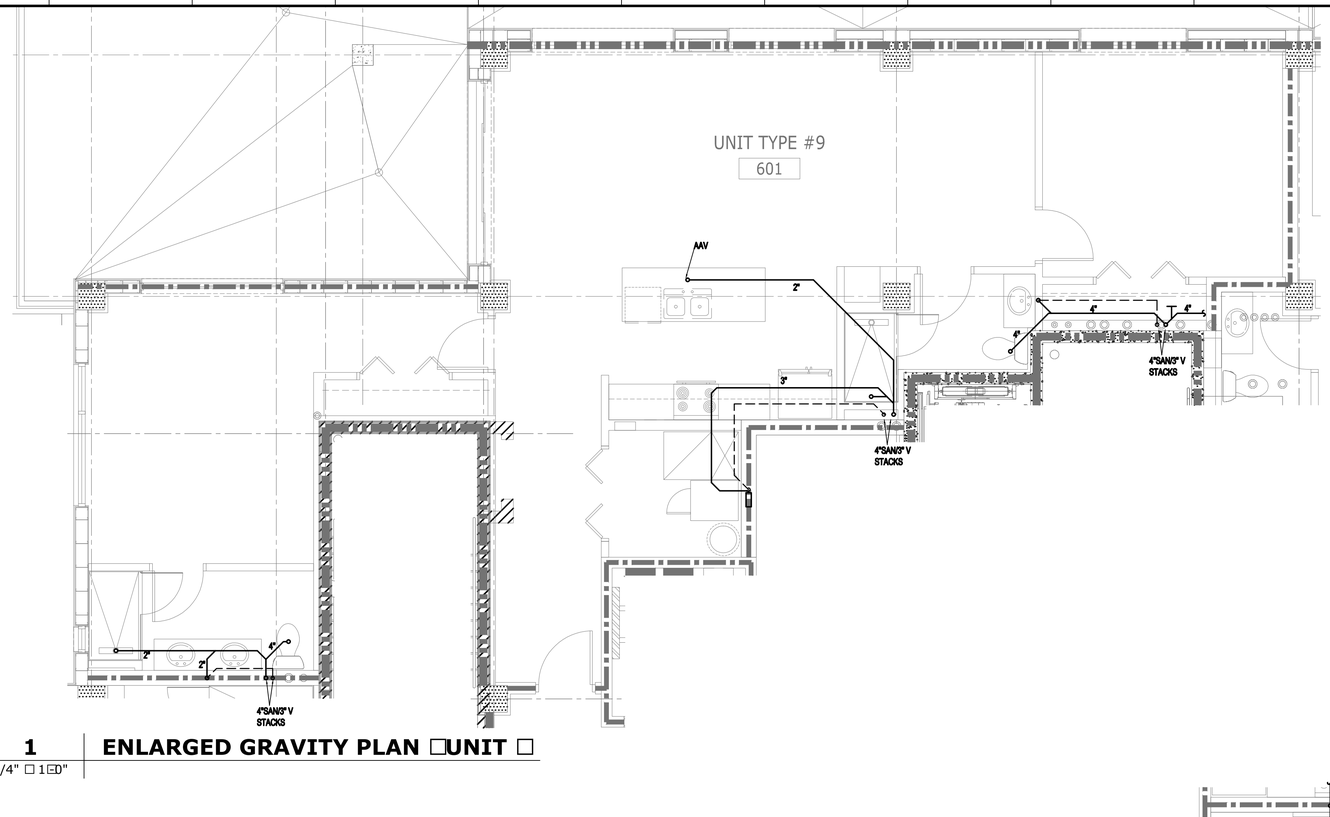
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ENLARGED PLANS ☐ GRAVITY

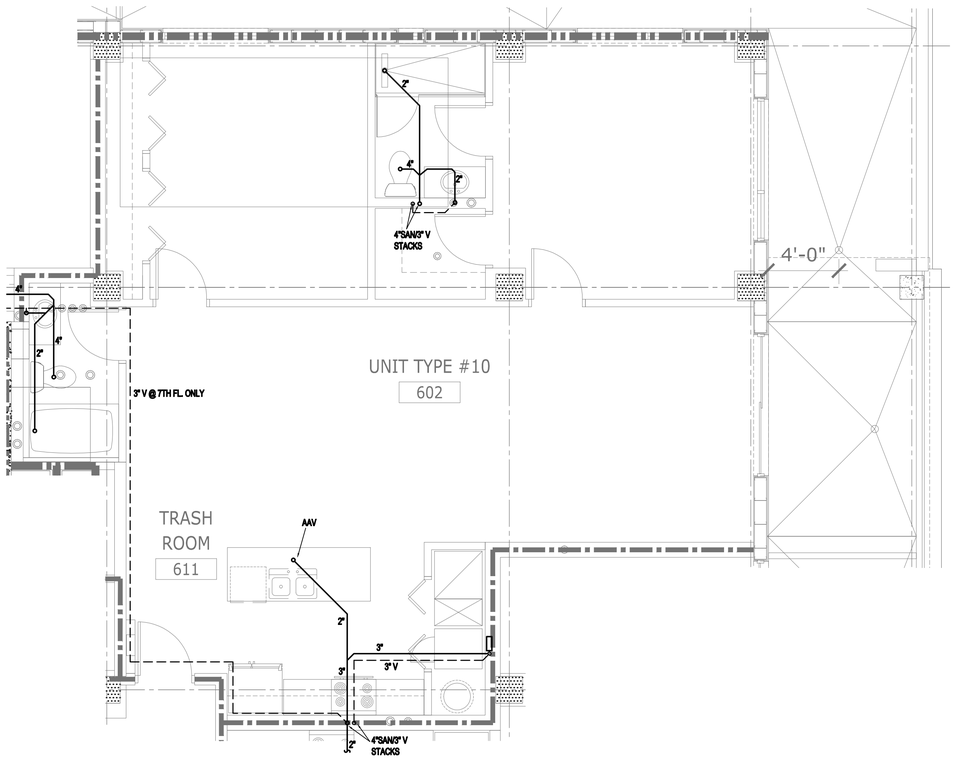
PROJECT NO.: 13270.99

P302



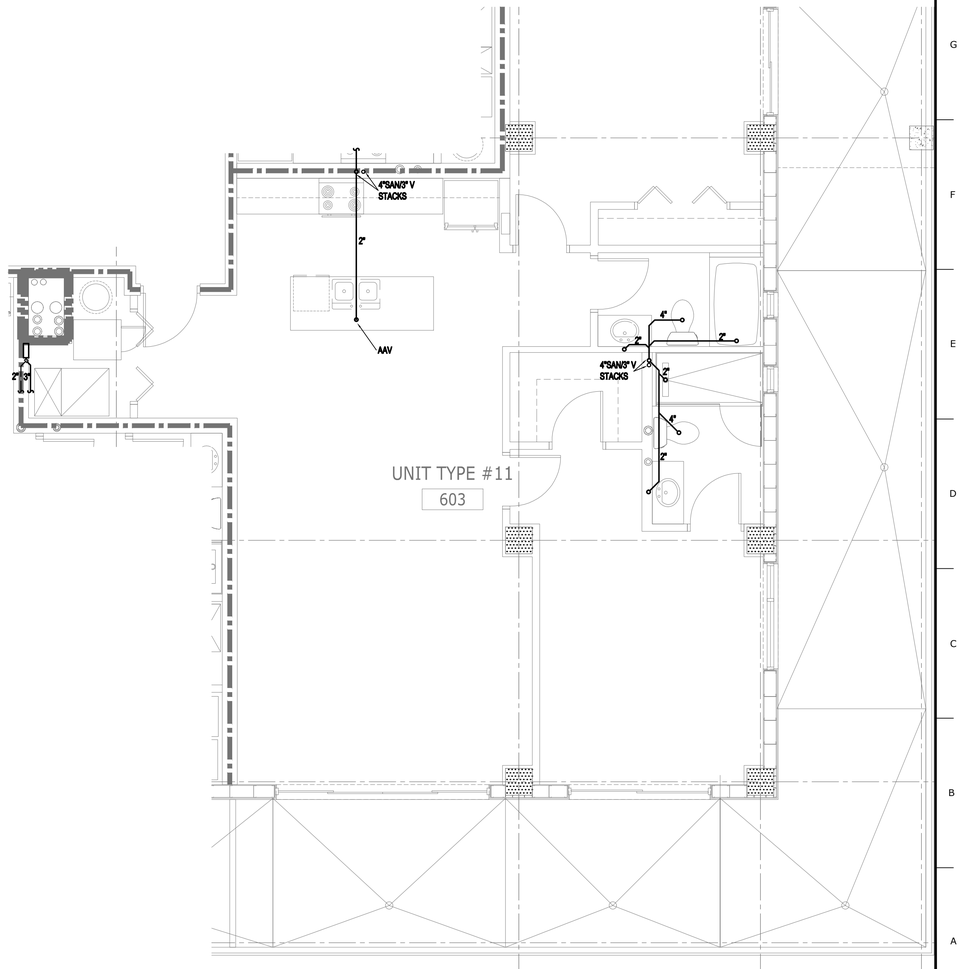
1 **ENLARGED GRAVITY PLAN ☐UNIT ☐**

1/4" ☐ 1⊡"



2 **ENLARGED GRAVITY PLAN ☐UNIT 10**

1/4" ☐ 1⊡"



3 **ENLARGED GRAVITY PLAN ☐UNIT 11**

1/4" ☐ 1⊡"

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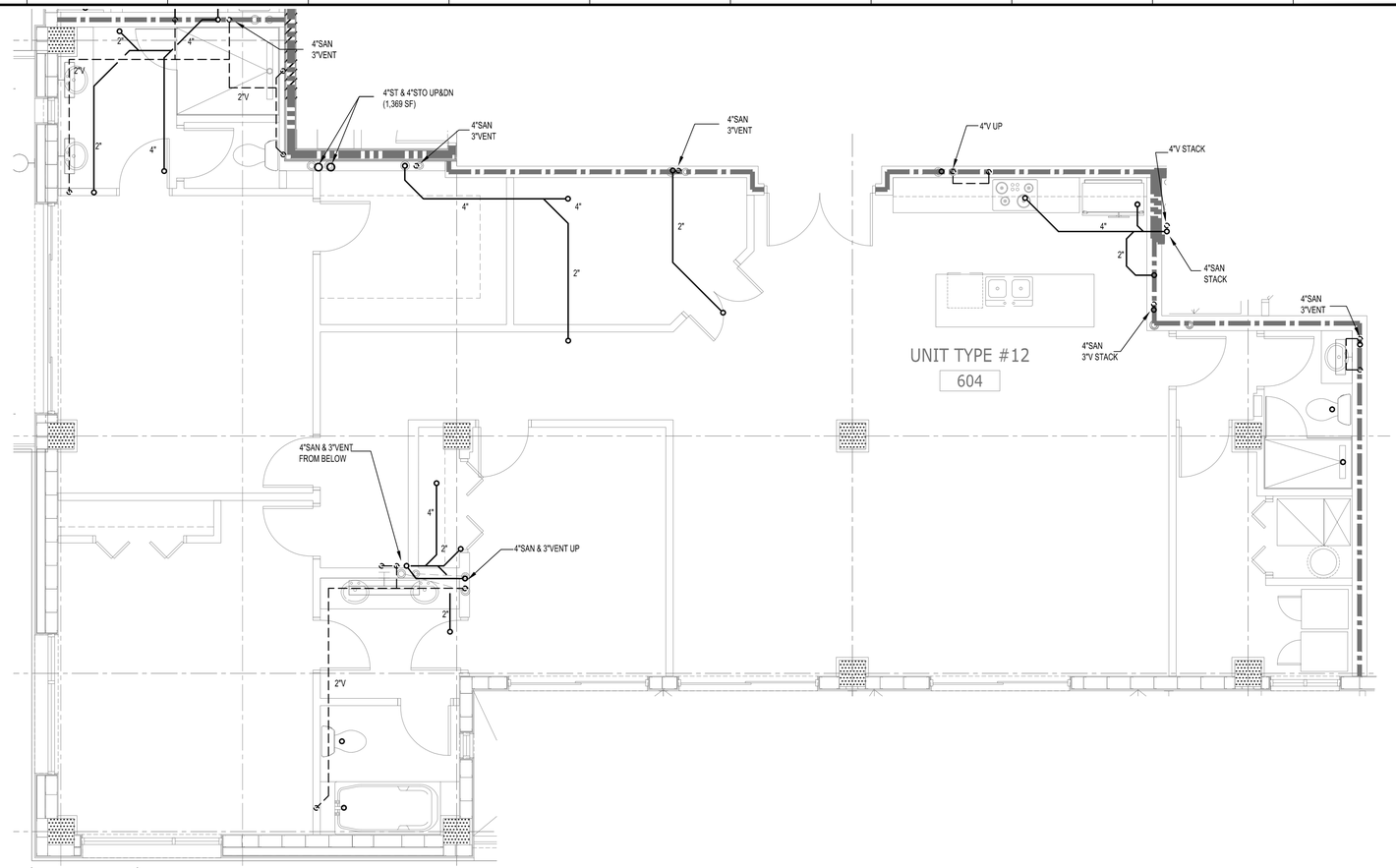
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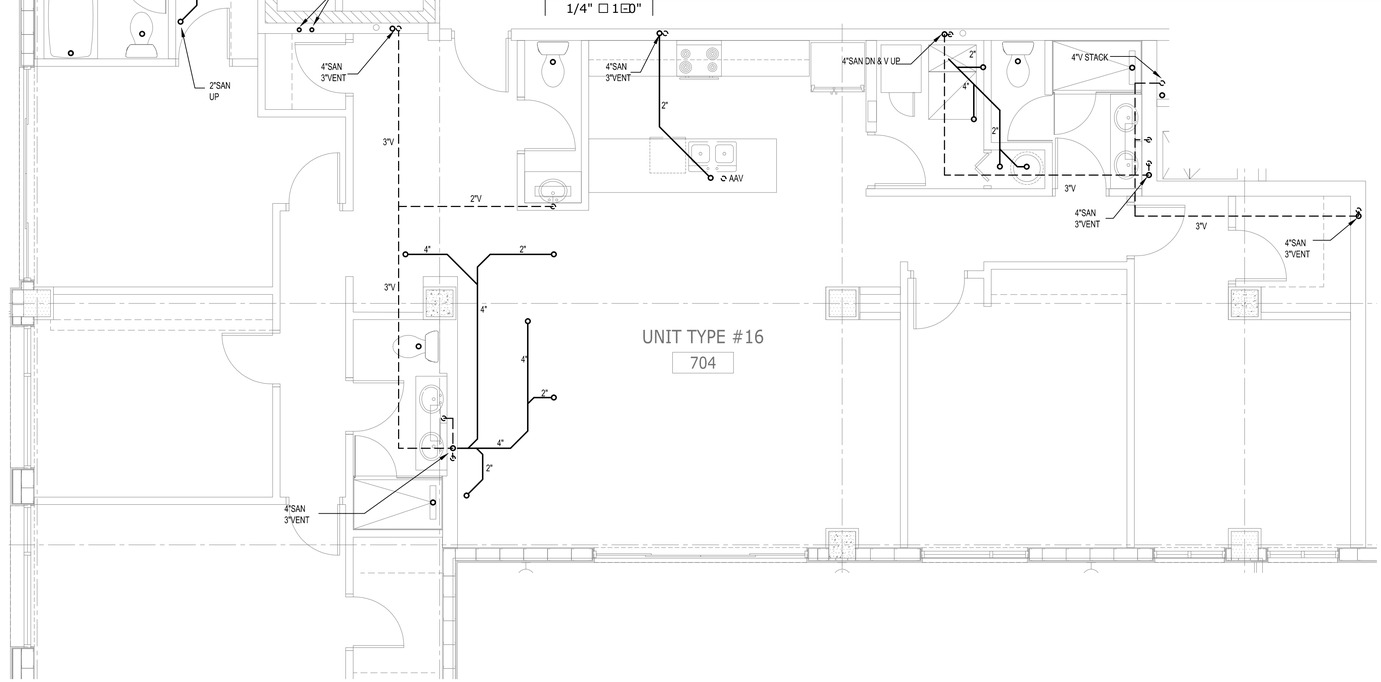
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P303



1 1/4" ☐ 1⊟D"

ENLARGED GRAVITY PLAN ☐UNIT 12



2 1/4" ☐ 1⊟D"

ENLARGED GRAVITY PLAN ☐UNIT 16

3 1/4" ☐ 1⊟D"

ENLARGED GRAVITY PLAN ☐UNIT 14

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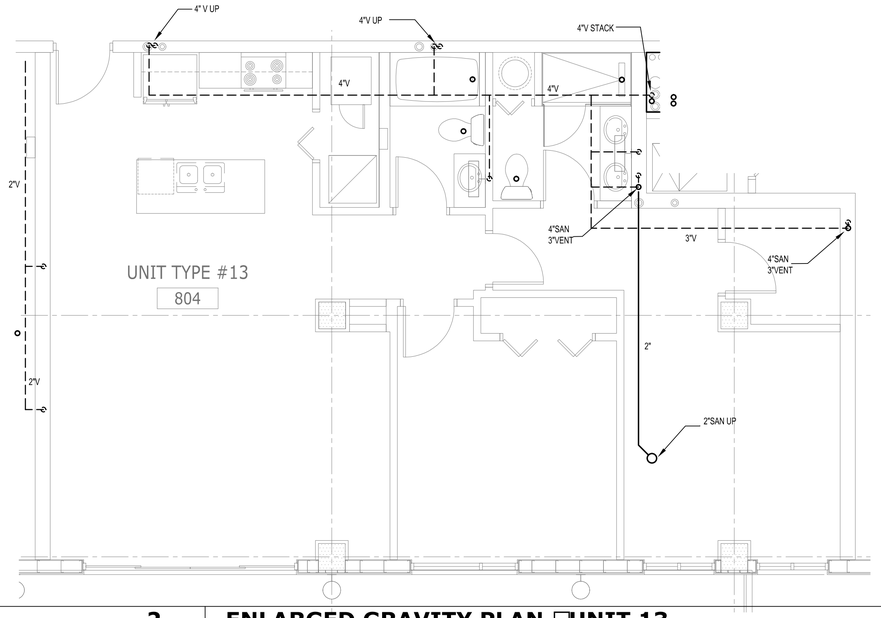
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ENLARGED PLANS ☐ GRAVITY

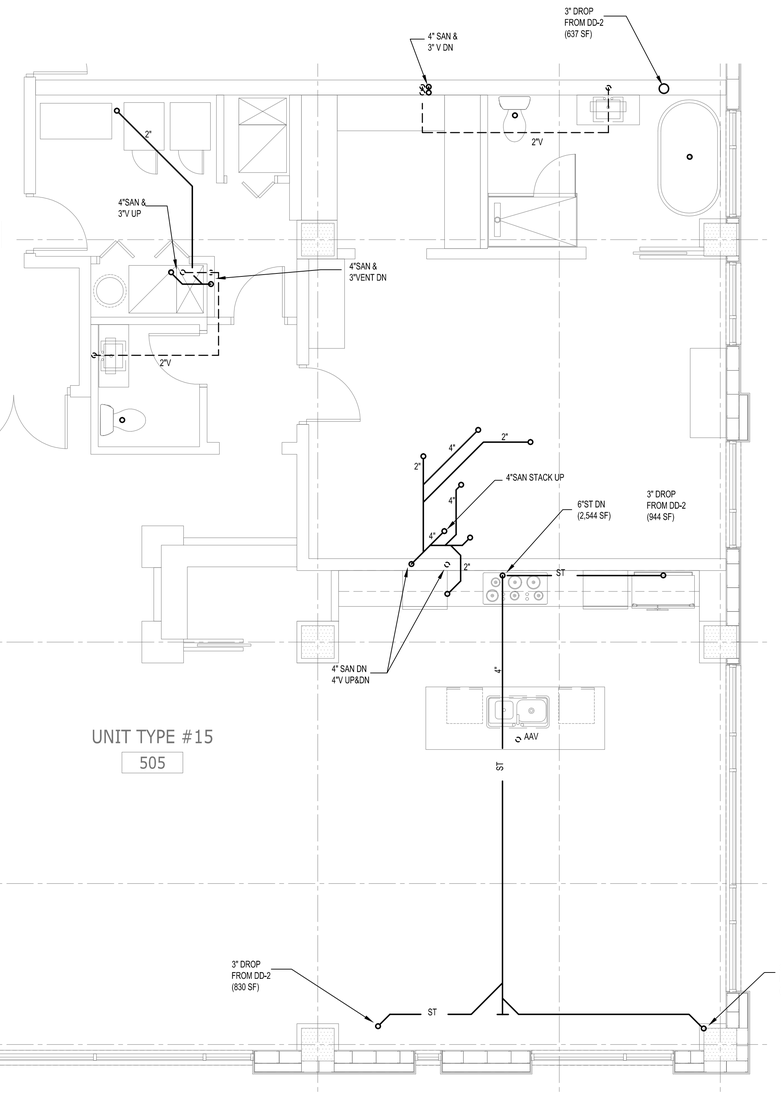
PROJECT NO.: 13270.99

P304



2 ENLARGED GRAVITY PLAN □UNIT 13

1/4" □ 1□"



1 ENLARGED GRAVITY PLAN □UNIT 1□

1/4" □ 1□"

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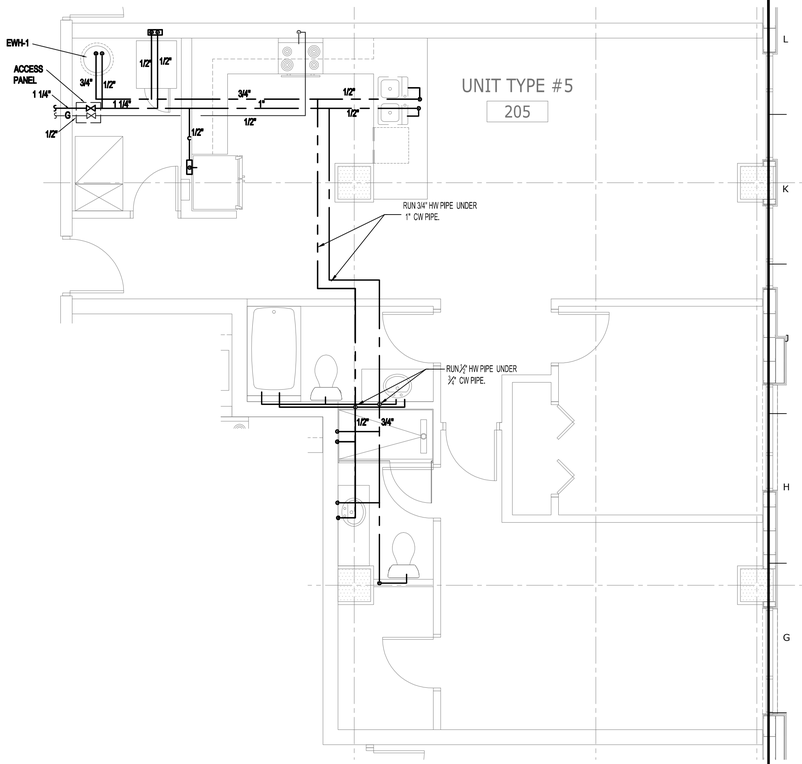
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ENLARGED PLANS □ GRAVITY

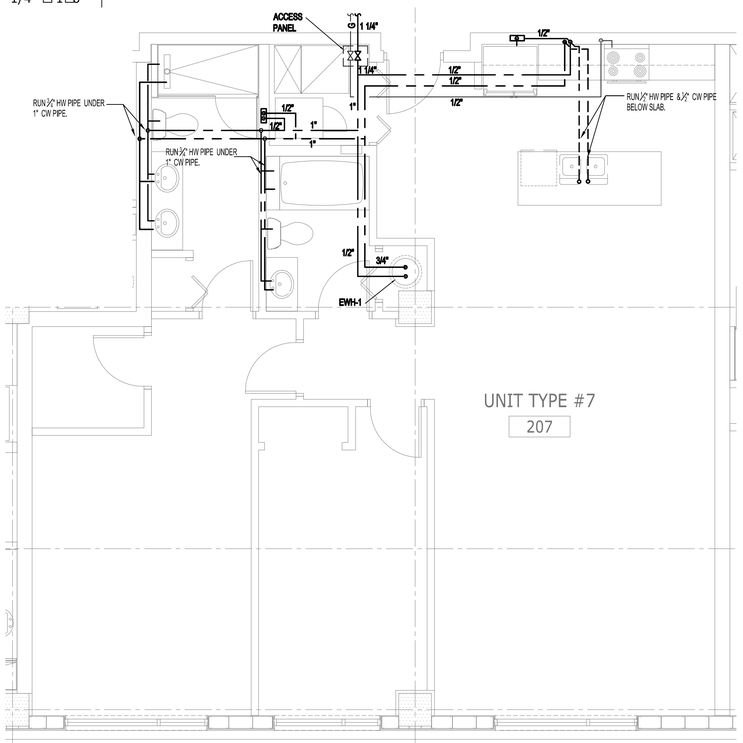
PROJECT NO.: 13270.99

P30□



1 ENLARGED PRESSURE PLAN ☐UNIT ☐

1/4" ☐ 1☐"



2 ENLARGED PRESSURE PLAN ☐UNIT ☐

1/4" ☐ 1☐"

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L. Roland Young Jr., PE
PE#9268

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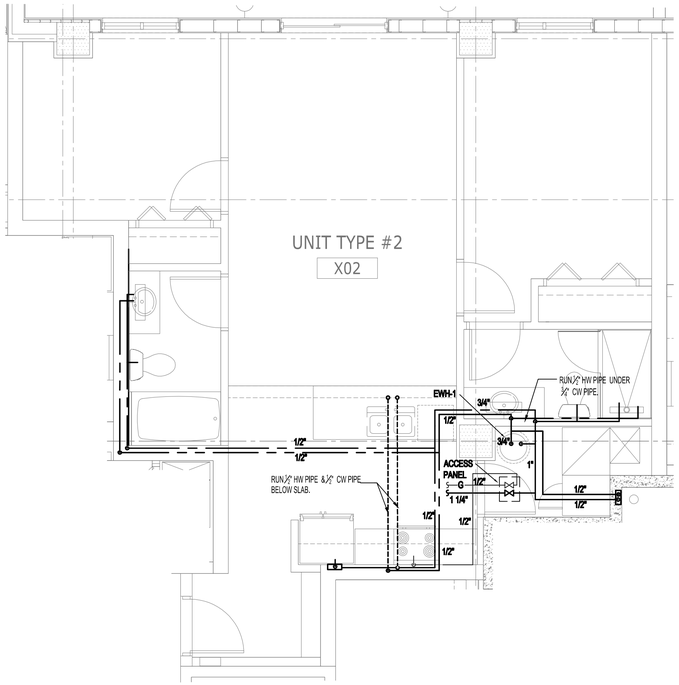
THE SKYVIEW CONDOMINIUMS

400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

ENLARGED PLANS ☐ PRESSURE

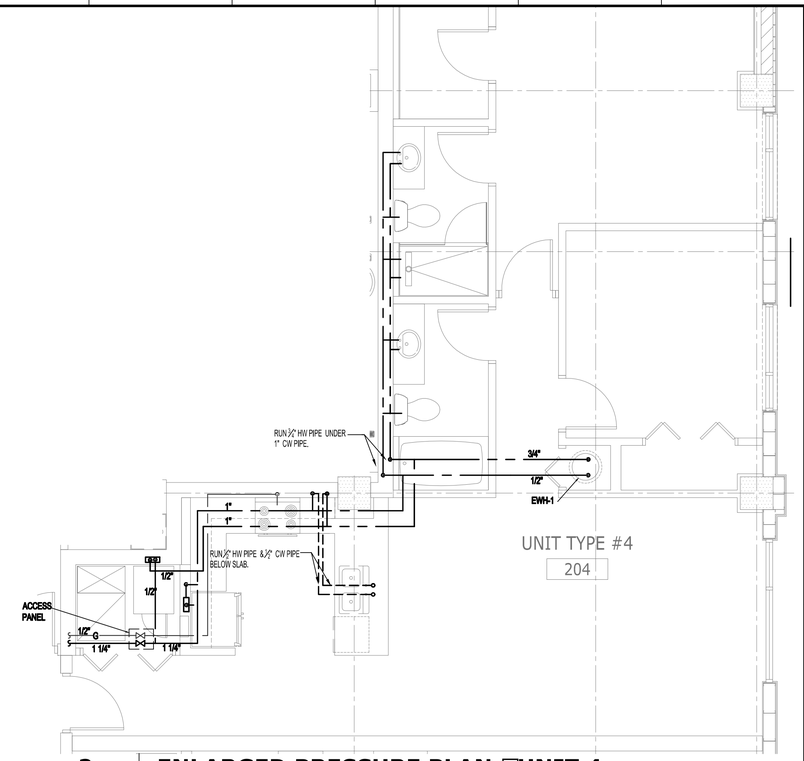
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P306



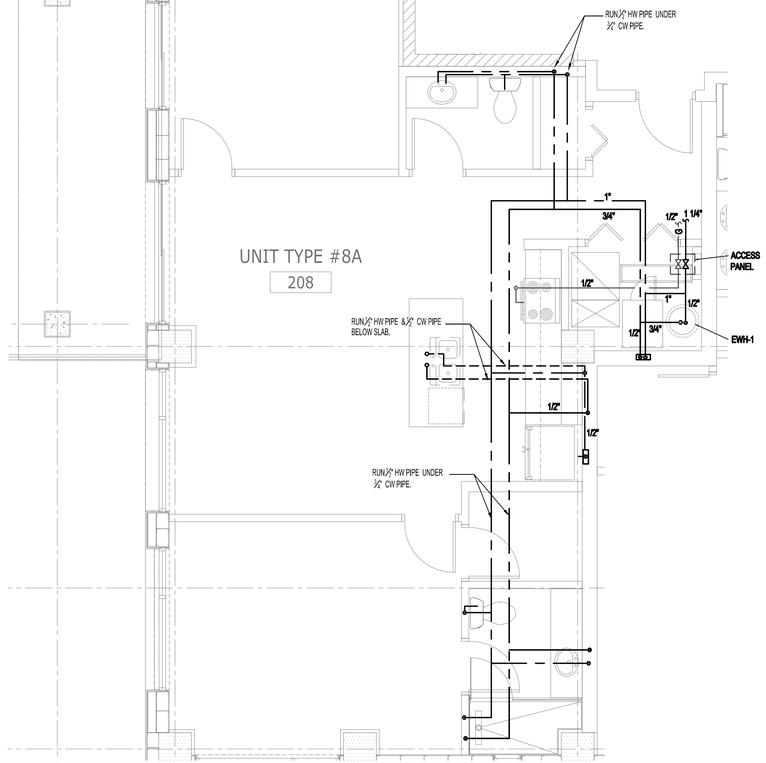
1 ENLARGED PRESSURE PLAN ☐UNIT 2

1/4" ☐ 1☐0"



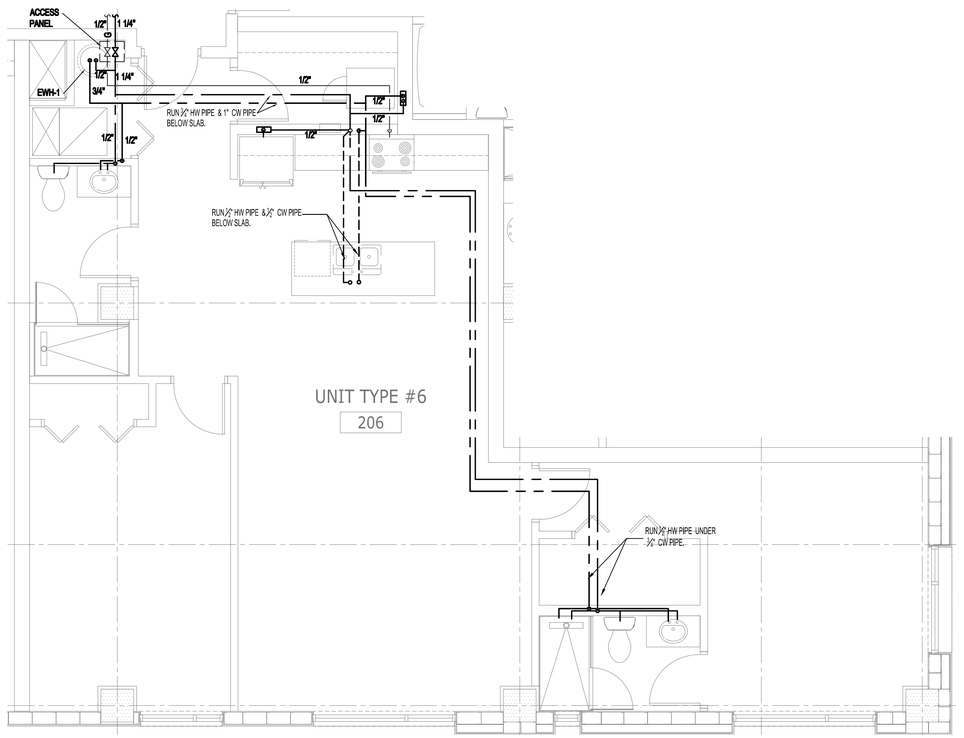
2 ENLARGED PRESSURE PLAN ☐UNIT 4

1/4" ☐ 1☐0"



4 ENLARGED PRESSURE PLAN ☐UNIT ☐

1/4" ☐ 1☐0"



3 ENLARGED PRESSURE PLAN ☐UNIT 6

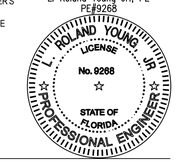
1/4" ☐ 1☐0"

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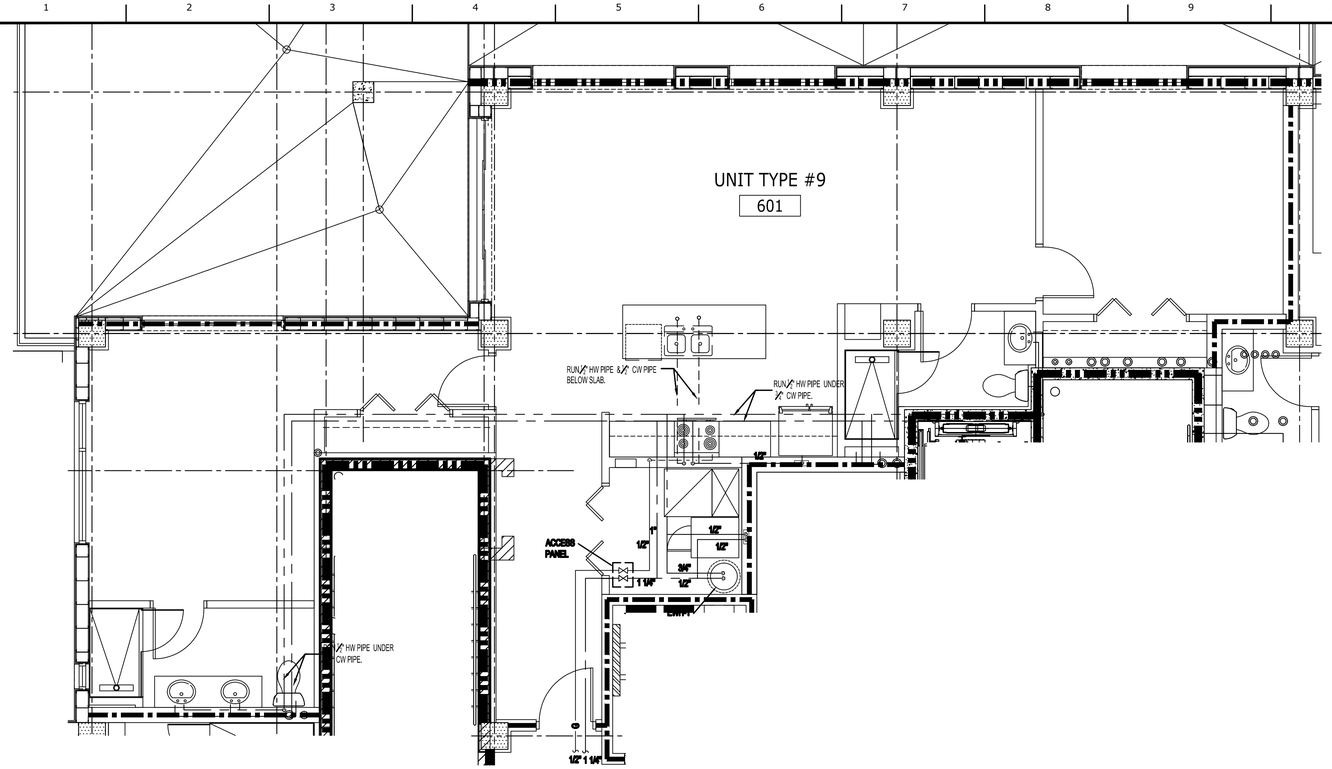
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400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

ENLARGED PLANS ☐ PRESSURE

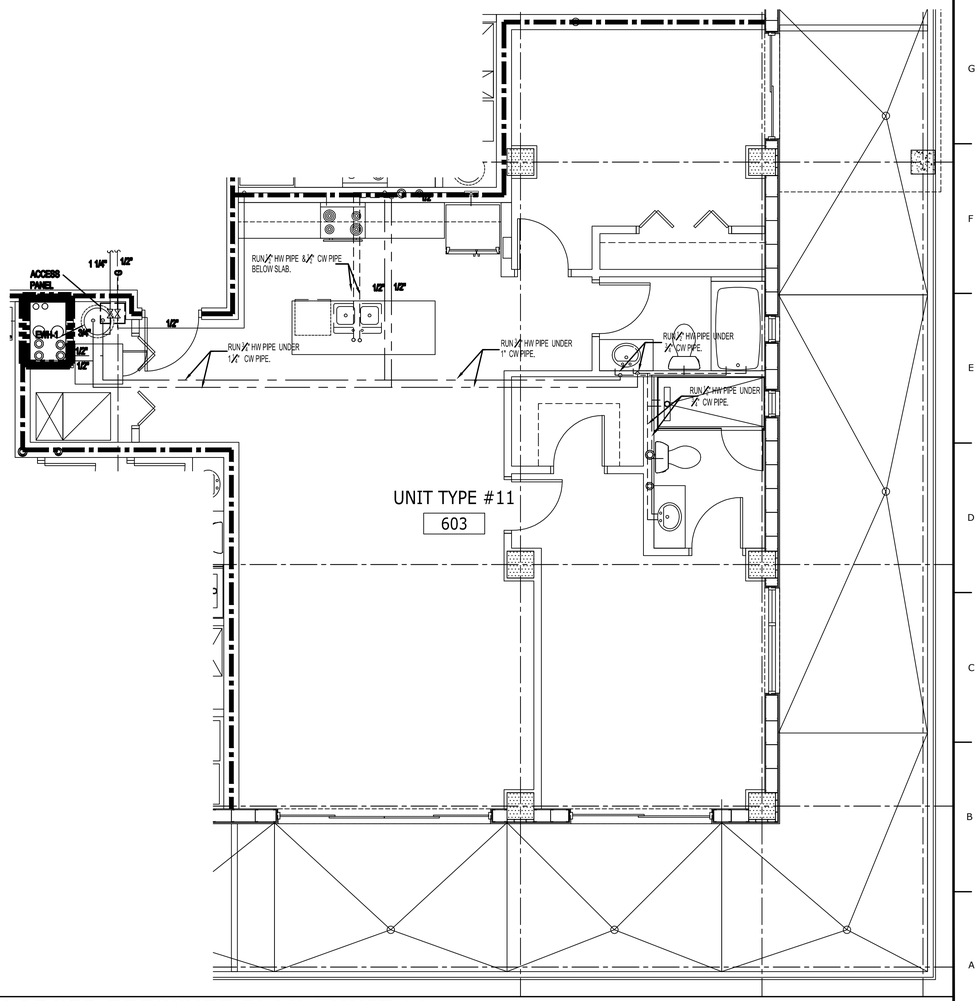
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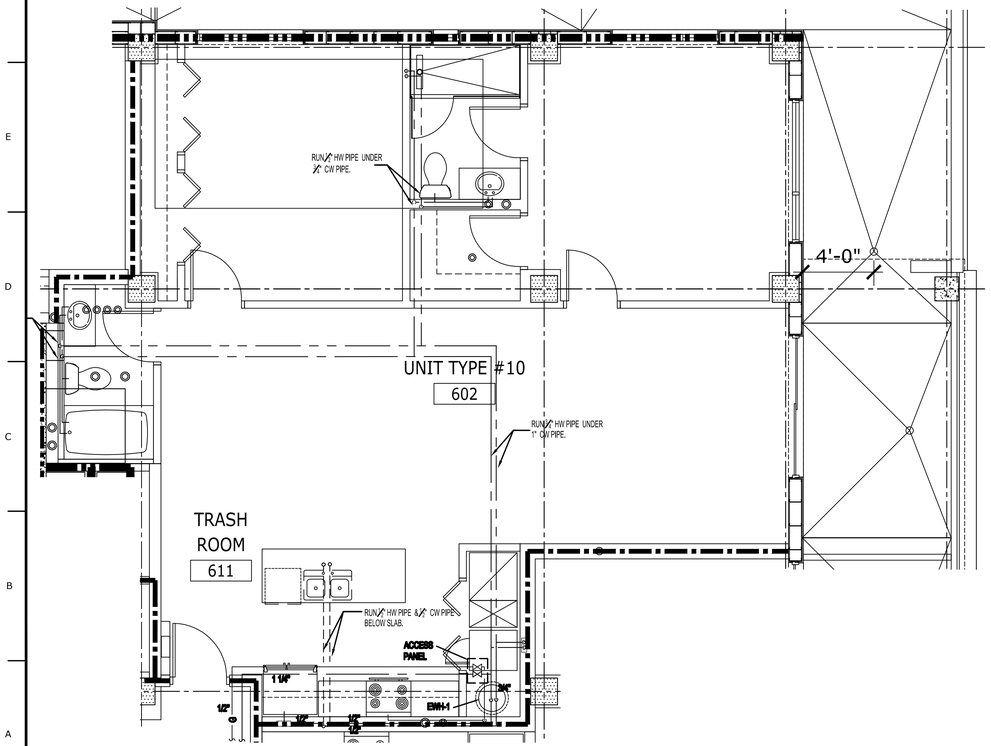
P30☐



1 ENLARGED PRESSURE PLAN ☐UNIT ☐

1/4" ☐ 1☐0"





2 ENLARGED PRESSURE PLAN ☐UNIT 10

1/4" ☐ 1☐0"

3 ENLARGED PRESSURE PLAN ☐UNIT 11

1/4" ☐ 1☐0"

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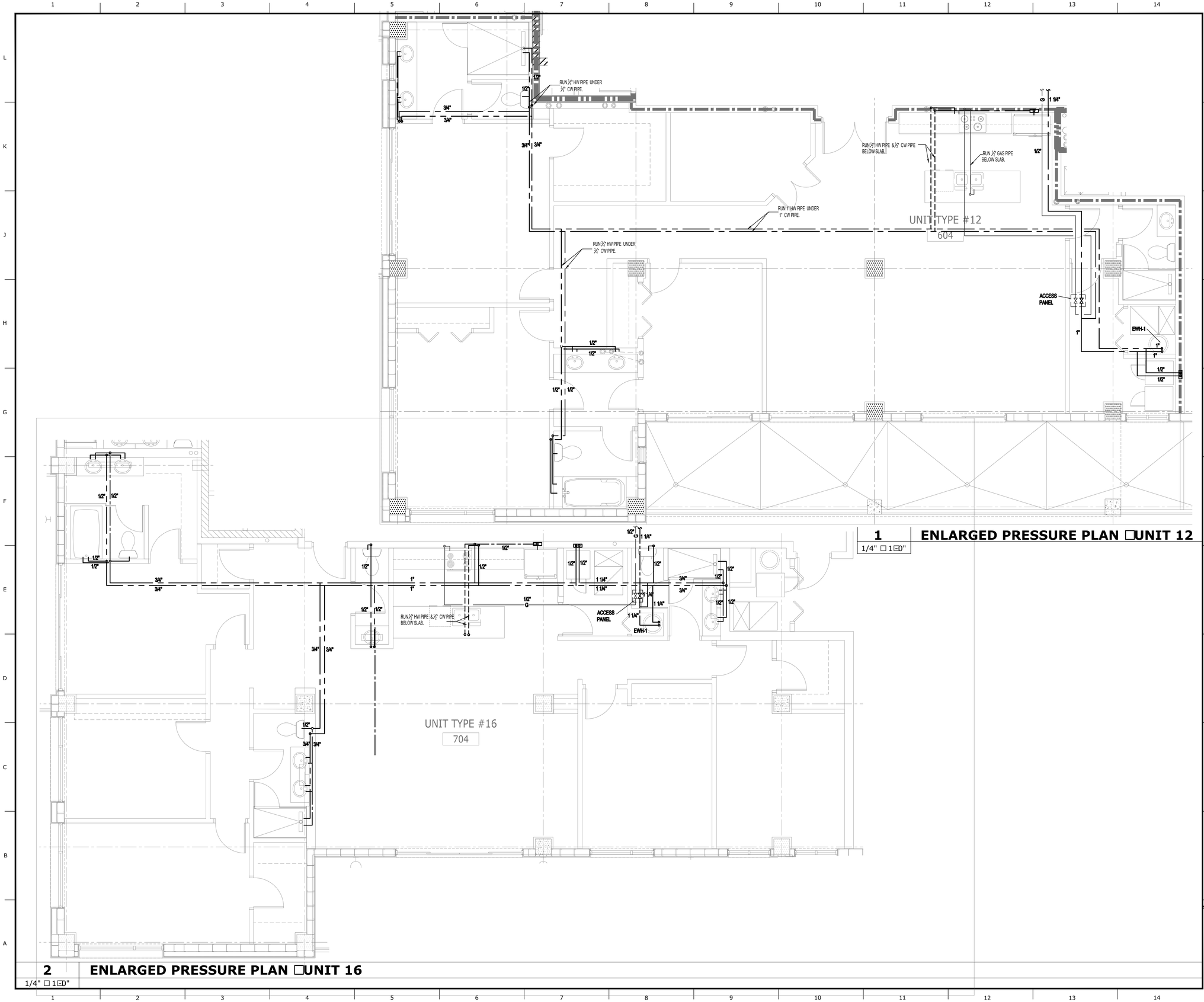
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CLEARWATER, FLORIDA 33755

ENLARGED PLANS ☐ PRESSURE

PROJECT NO.: 13270.99

P30☐



1 **ENLARGED PRESSURE PLAN □UNIT 12**
1/4" □ 1□0"

2 **ENLARGED PRESSURE PLAN □UNIT 16**
1/4" □ 1□0"

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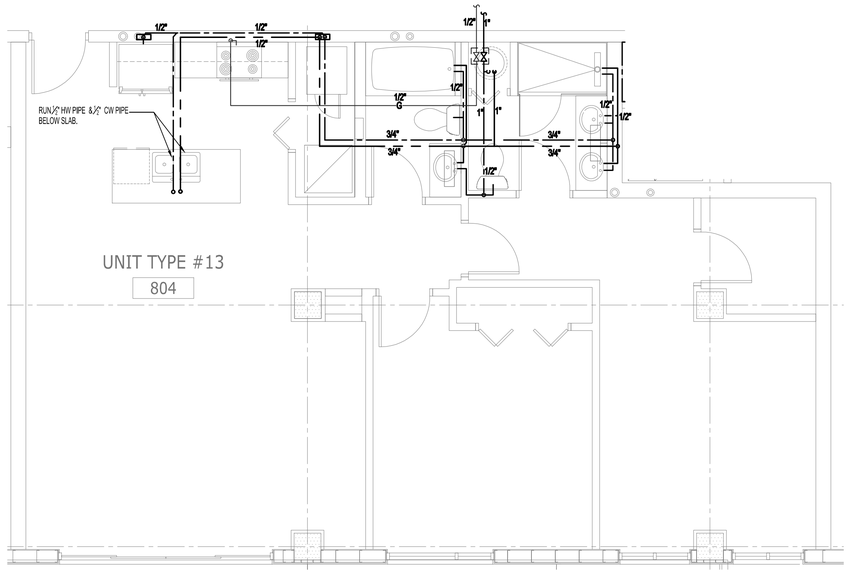
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ENLARGED PLANS □PRESSURE

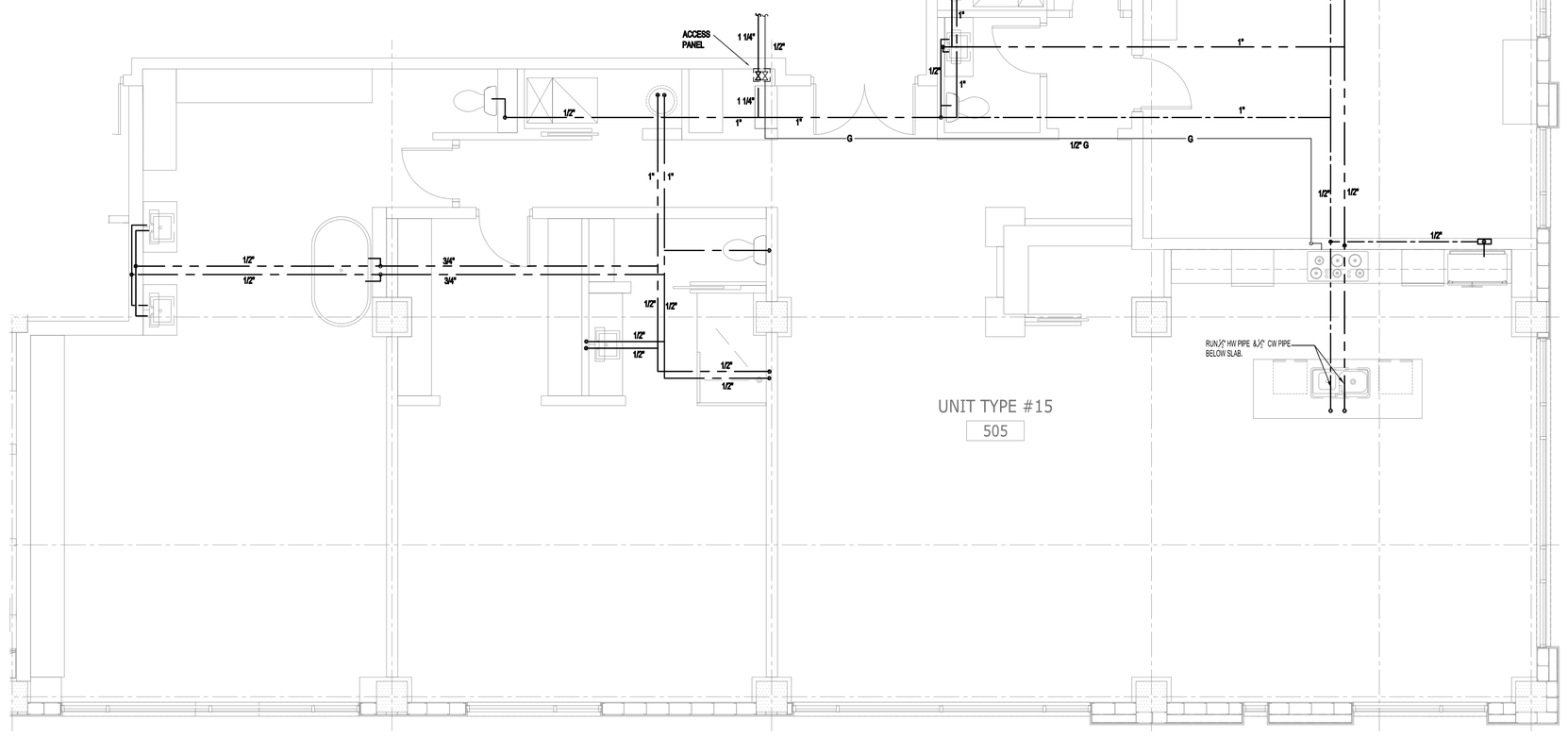
PROJECT NO.: 13270.99

P30□



2 ENLARGED PRESSURE PLAN ☐UNIT 13

1/4" ☐ 1☐D"



1 ENLARGED PRESSURE PLAN ☐UNIT 1☐

1/4" ☐ 1☐D"

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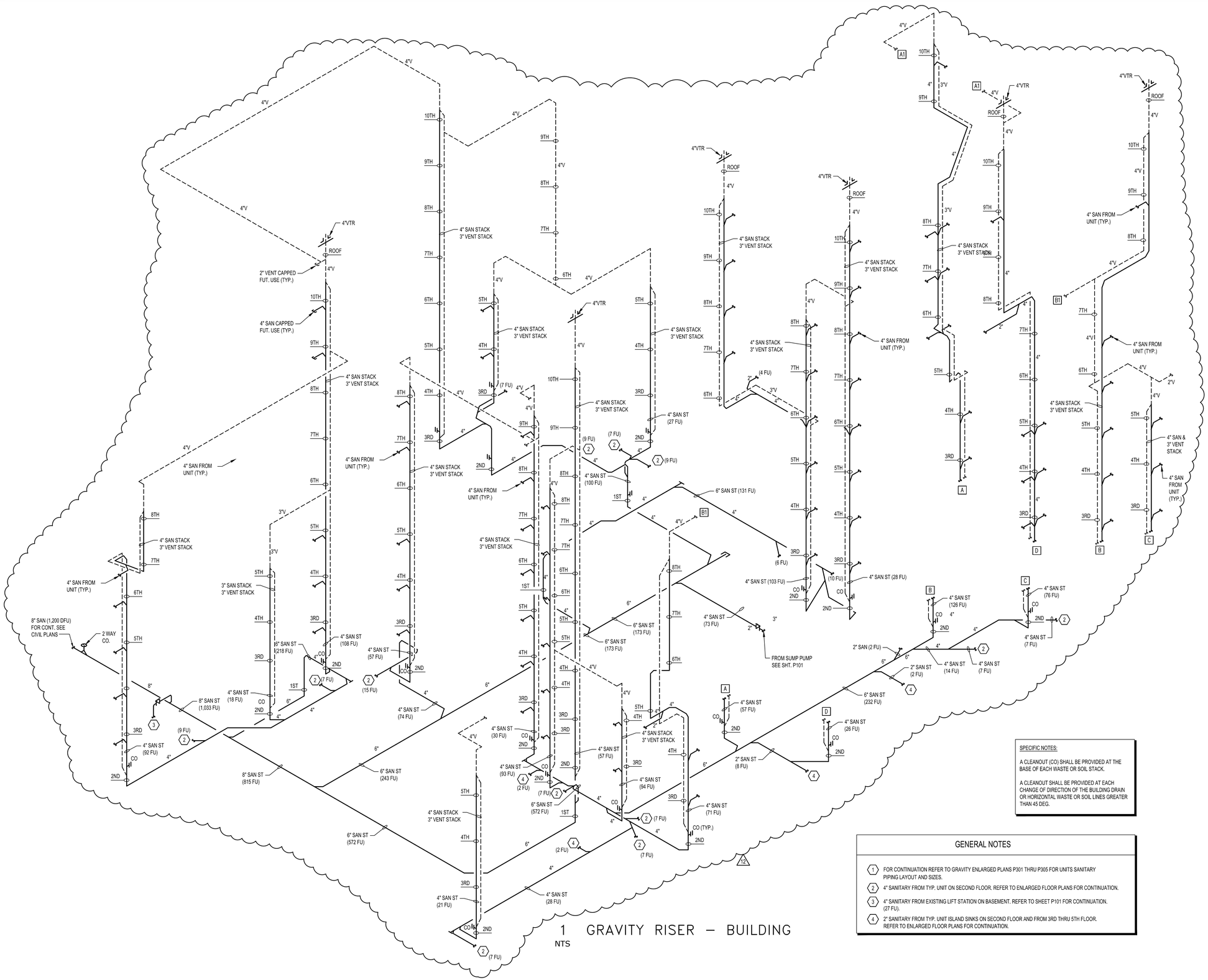
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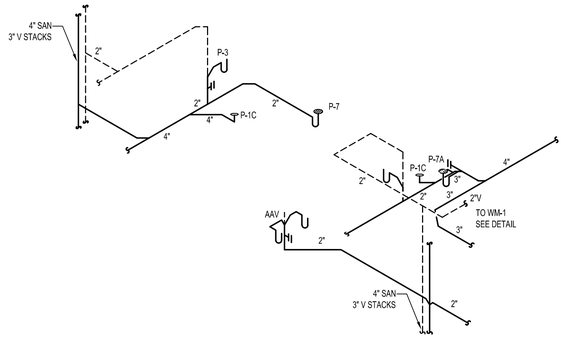
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ENLARGED PLANS ☐ PRESSURE

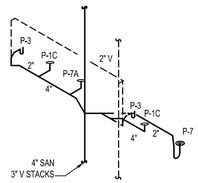
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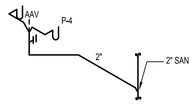
P310


4"V
4"VTR
ROOF
2" VENT CAPPED FUT. USE (TYP.)
4" SAN CAPPED FUT. USE (TYP.)
4" SAN STACK 3" VENT STACK
4" SAN FROM UNIT (TYP.)
3"V
3" SAN STACK 3" VENT STACK
8" SAN (1,200 DFU) FOR CONT. SEE CIVIL PLANS
2 WAY CO.
8" SAN ST (1,033 FU)
4" SAN ST (92 FU)
8" SAN ST (615 FU)
6" SAN ST (243 FU)
6" SAN ST (572 FU)
4" SAN ST (18 FU)
6" SAN ST (218 FU)
4" SAN ST (108 FU)
4" SAN ST (57 FU)
4" SAN ST (74 FU)
4" SAN ST (21 FU)
4" SAN ST (28 FU)
4" SAN ST (30 FU)
4" SAN ST (93 FU)
6" SAN ST (572 FU)
4" SAN ST (100 FU)
6" SAN ST (131 FU)
6" SAN ST (173 FU)
4" SAN ST (73 FU)
4" SAN ST (103 FU)
4" SAN ST (27 FU)
4" SAN ST (94 FU)
4" SAN ST (71 FU)
4" SAN ST (57 FU)
4" SAN ST (126 FU)
4" SAN ST (76 FU)
4" SAN ST (14 FU)
4" SAN ST (7 FU)
4" SAN ST (232 FU)
4" SAN ST (26 FU)
2" SAN ST (8 FU)
2" SAN ST (2 FU)
2" SAN (2 FU)
FROM SUMP PUMP SEE SHT. P101
4" SAN & 3" VENT STACK
4" SAN FROM UNIT (TYP.)
CO (TYP.)
(7 FU)
(9 FU)
(4 FU)
(6 FU)
(10 FU)
(15 FU)
(2 FU)
(27 FU)
(100 FU)
(173 FU)
(218 FU)
(1,033 FU)
(615 FU)
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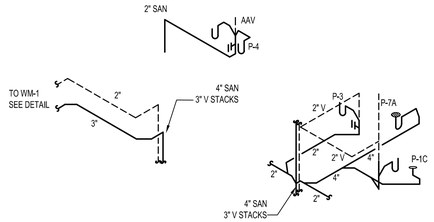


2 ENLARGED GRAVITY RISER – UNIT 2
NTS

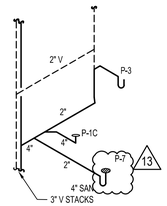


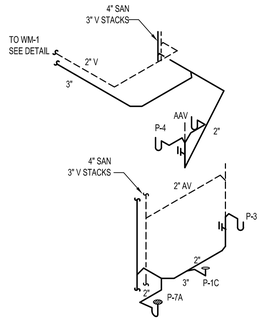


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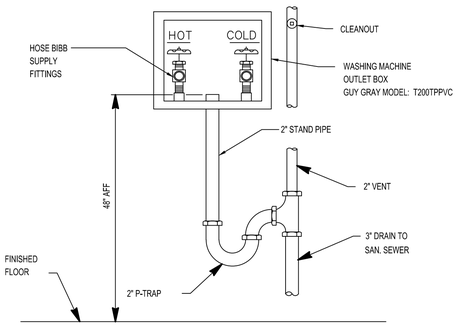


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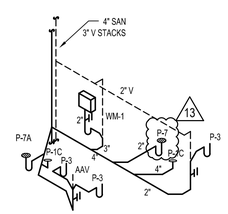


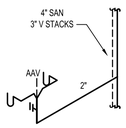


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NTS

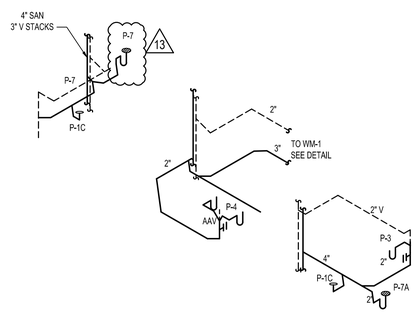


WASHING MACHINE HOOK-UP DETAIL - WM-1





7 ENLARGED GRAVITY PLAN – UNIT 7
NTS



8 ENLARGED GRAVITY PLAN – UNIT 8
NTS

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PE#9268

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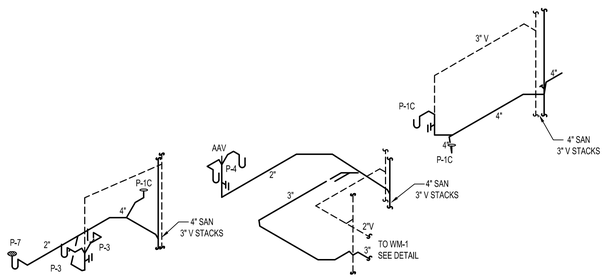
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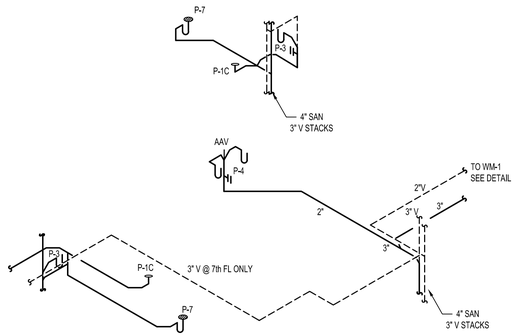
PLUMBING RISERS ☐ GRAVITY ☑ UNITS

PROJECT NO.: 13270.99

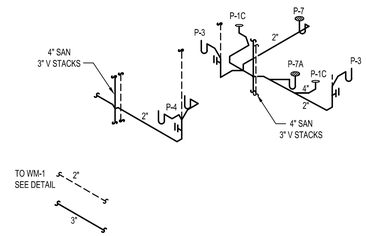
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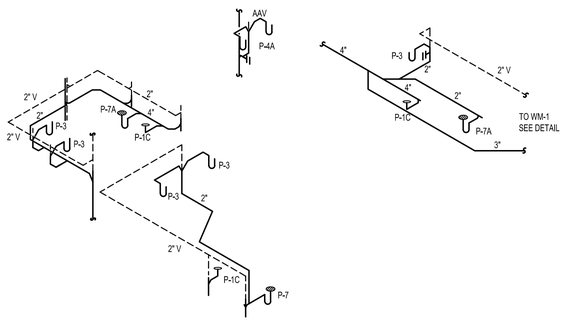
9 ENLARGED GRAVITY RISER – UNIT 9
NTS



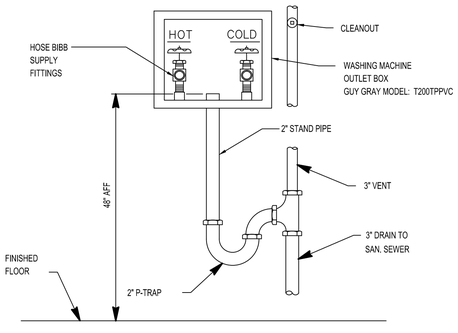
10 ENLARGED GRAVITY RISER– UNIT 10
NTS



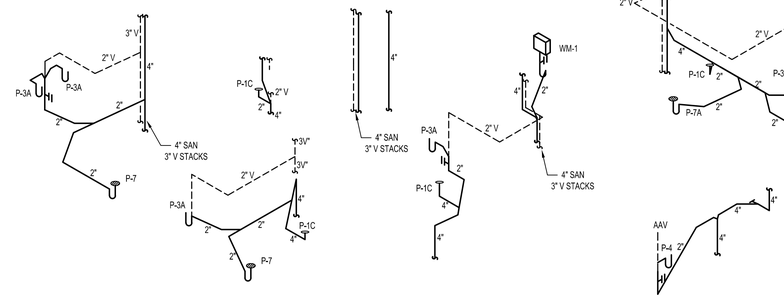
11 ENLARGED GRAVITY RISER – UNIT 11
NTS



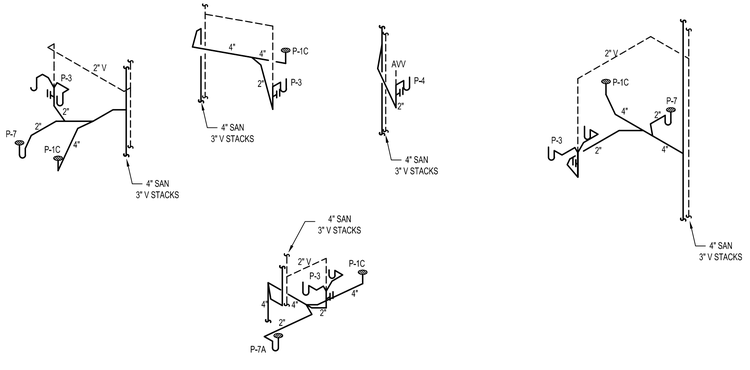
12 ENLARGED GRAVITY RISER – UNIT 12
NTS



WASHING MACHINE HOOK-UP DETAIL - WM-1



15 ENLARGED GRAVITY RISER – UNIT 15
NTS



16 ENLARGED GRAVITY RISER – UNIT 16
NTS

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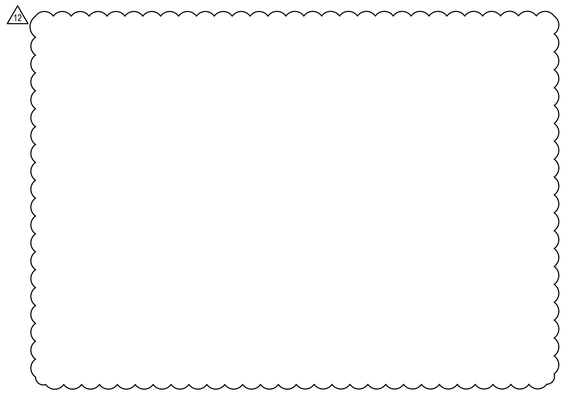
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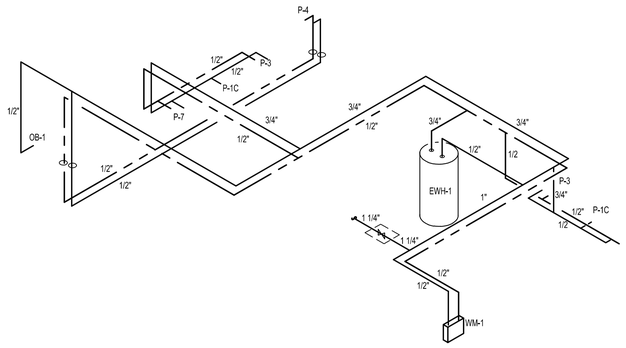
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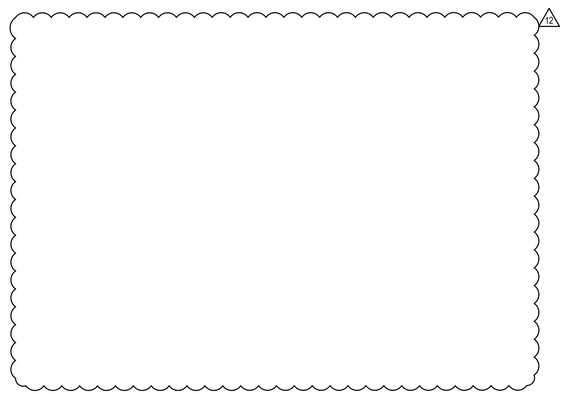
PLUMBING RISERS GRAVITY UNITS

PROJECT NO.: 13270.99

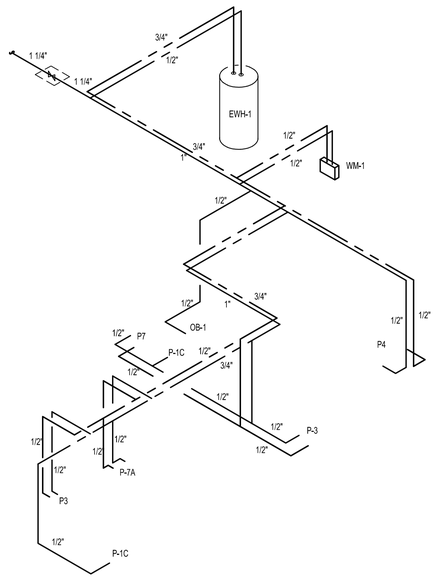
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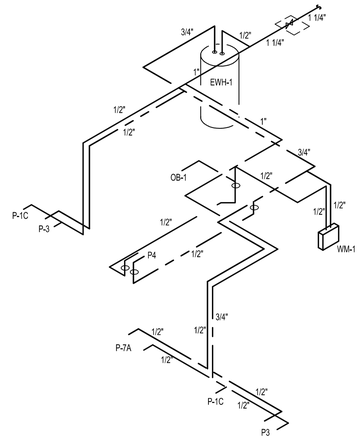


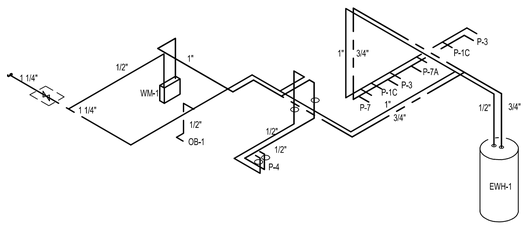




2 ENLARGED PRESSURE RISER – UNIT 2
NTS







4 ENLARGED PRESSURE RISER – UNIT 4
NTS

5 ENLARGED PRESSURE RISER – UNIT 5
NTS

6 ENLARGED PRESSURE RISER – UNIT 6
NTS

GENERAL NOTES
1 FOR WATER CONNECTION, PIPING LAYOUT AND SIZES REFER TO DETAIL SHEET P501 AND P001 FOR ELECTRIC WATER SCHEDULE.

WATER HAMMER ARRESTER SCHEDULE

MARK	* P.D.I. SIZE	CONN. SIZE
A	A (1-11 F.U.)	1/2"
B	B (12-32 F.U.)	3/4"

* PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201

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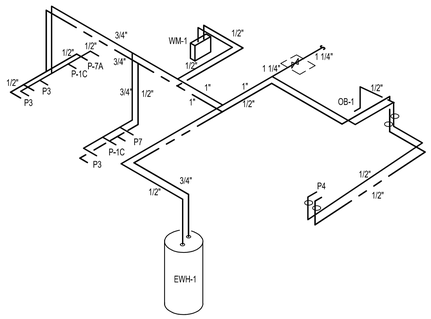
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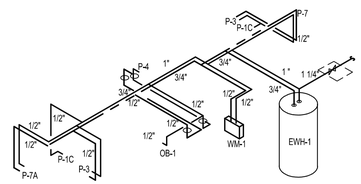
PLUMBING RISERS □ PRESSURE□UNITS

PROJECT NO.: 13270.99

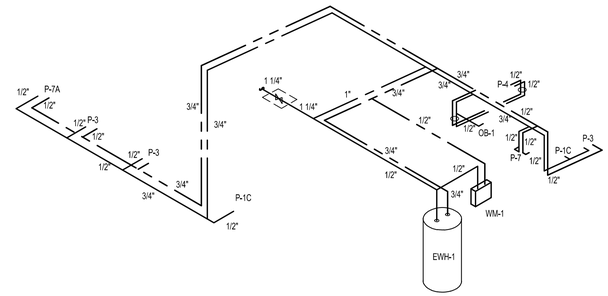
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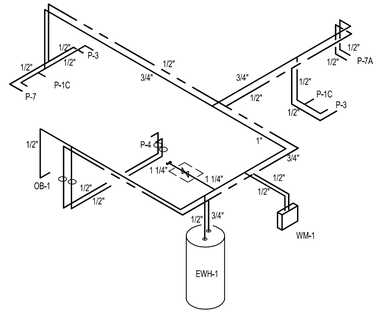
1 ENLARGED PRESSURE RISER – UNIT 7
NTS



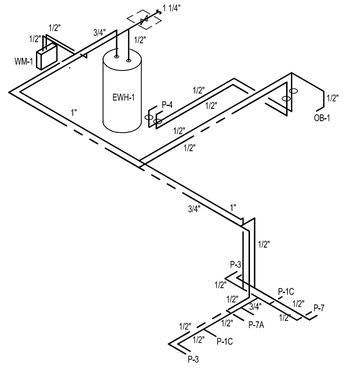
2 ENLARGED PRESSURE RISER – UNIT 8
NTS



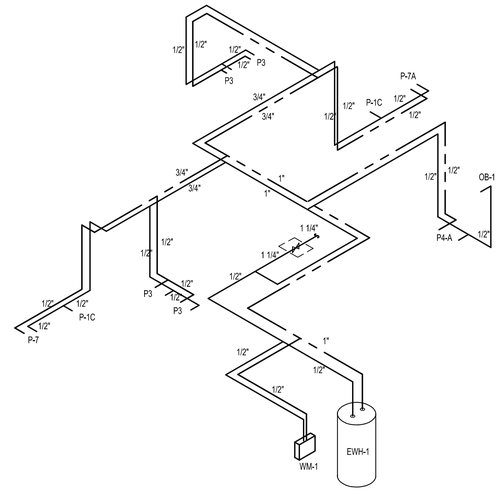
3 ENLARGED PRESSURE RISER – UNIT 9
NTS



4 ENLARGED PRESSURE RISER – UNIT 10
NTS



5 ENLARGED PRESSURE RISER – UNIT 11
NTS



6 ENLARGED PRESSURE RISER – UNIT 12
NTS

GENERAL NOTES
1 FOR WATER CONNECTION, PIPING LAYOUT AND SIZES REFER TO DETAIL SHEET P501 AND P001 FOR ELECTRIC WATER SCHEDULE.

WATER HAMMER ARRESTER SCHEDULE

MARK	* P.D.I. SIZE	CONN. SIZE
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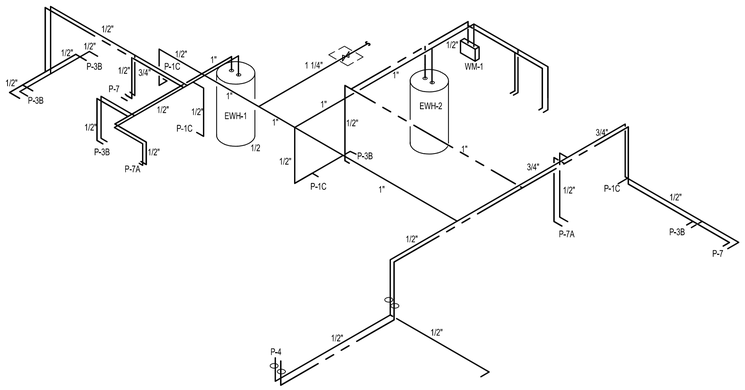
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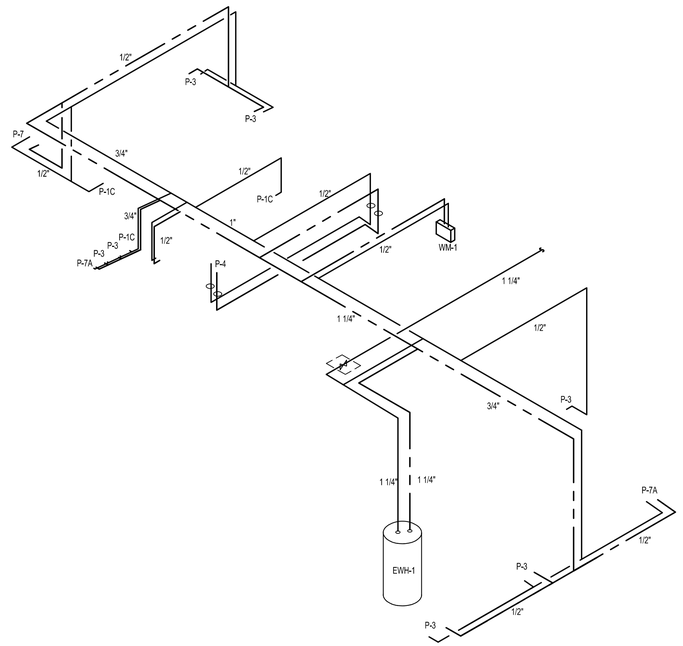
PLUMBING RISERS □ PRESSURE□UNITS

PROJECT NO.: 13270.99

P40□



1 ENLARGED PRESSURE RISER – UNIT 15
NTS



3 ENLARGED PRESSURE RISER – UNIT 16
NTS

GENERAL NOTES
1 FOR WATER CONNECTION, PIPING LAYOUT AND SIZES REFER TO DETAIL SHEET P501 AND P001 FOR

WATER HAMMER ARRESTER SCHEDULE

MARK	* P.D.I. SIZE	CONN. SIZE
A	A (1-11 F.U.)	1/2"
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PLUMBING RISERS □ PRESSURE□UNITS

PROJECT NO.: 13270.99

P406

FUTURE USE

TOTAL PIPE LENGTH - 302'
TOTAL GAS LOAD - 800 CFH

NOTE: ALL GAS SYSTEM WILL BE PROVIDED WITH A SECOND STAGE PRESSURE REGULATOR AT POINT OF SERVICE.

FROM TABLE 402.4(3), FBC (FUEL GAS), EDITION 2010
THE PIPE SHALL BE SCH 40 METALLIC PIPE

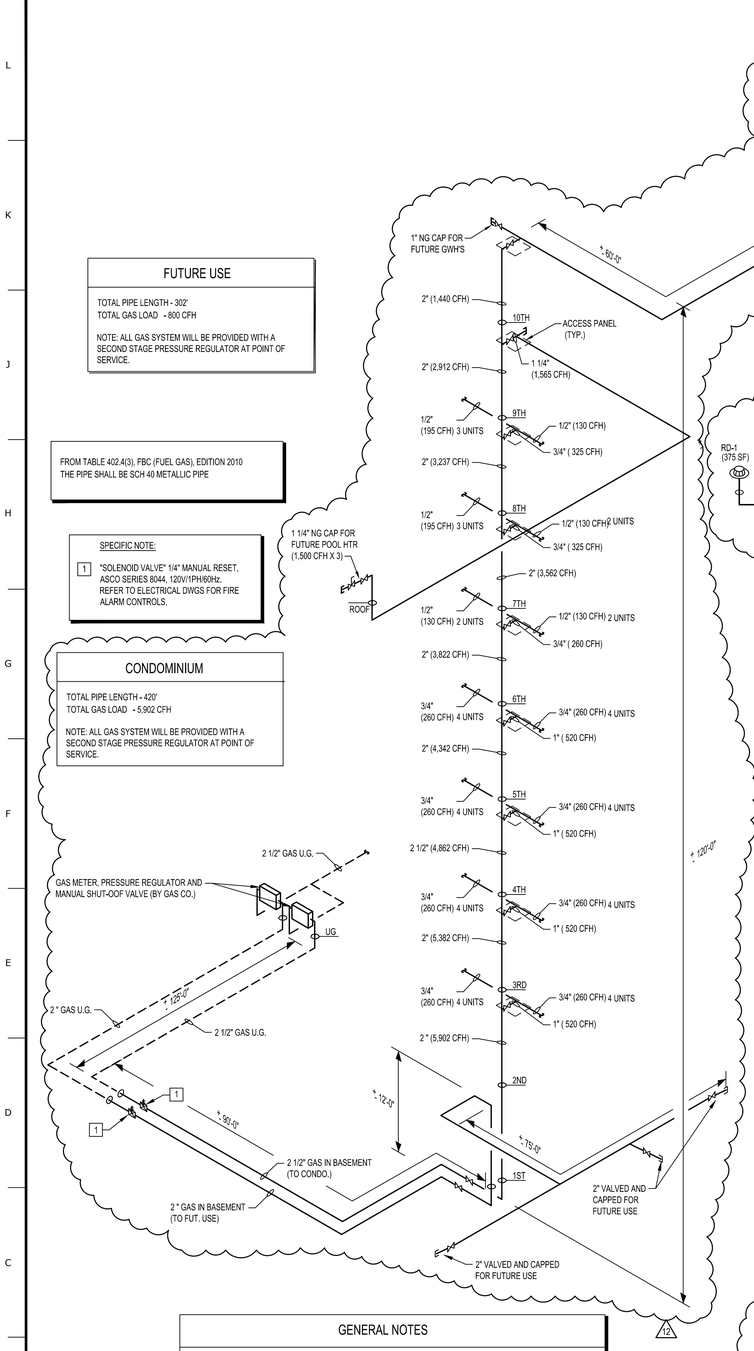
SPECIFIC NOTE:

1 "SOLENOID VALVE" 1/4" MANUAL RESET, ASCO SERIES 8044, 120V/1PH/60Hz. REFER TO ELECTRICAL DWGS FOR FIRE ALARM CONTROLS.

CONDOMINIUM

TOTAL PIPE LENGTH - 420'
TOTAL GAS LOAD - 5,902 CFH

NOTE: ALL GAS SYSTEM WILL BE PROVIDED WITH A SECOND STAGE PRESSURE REGULATOR AT POINT OF SERVICE.



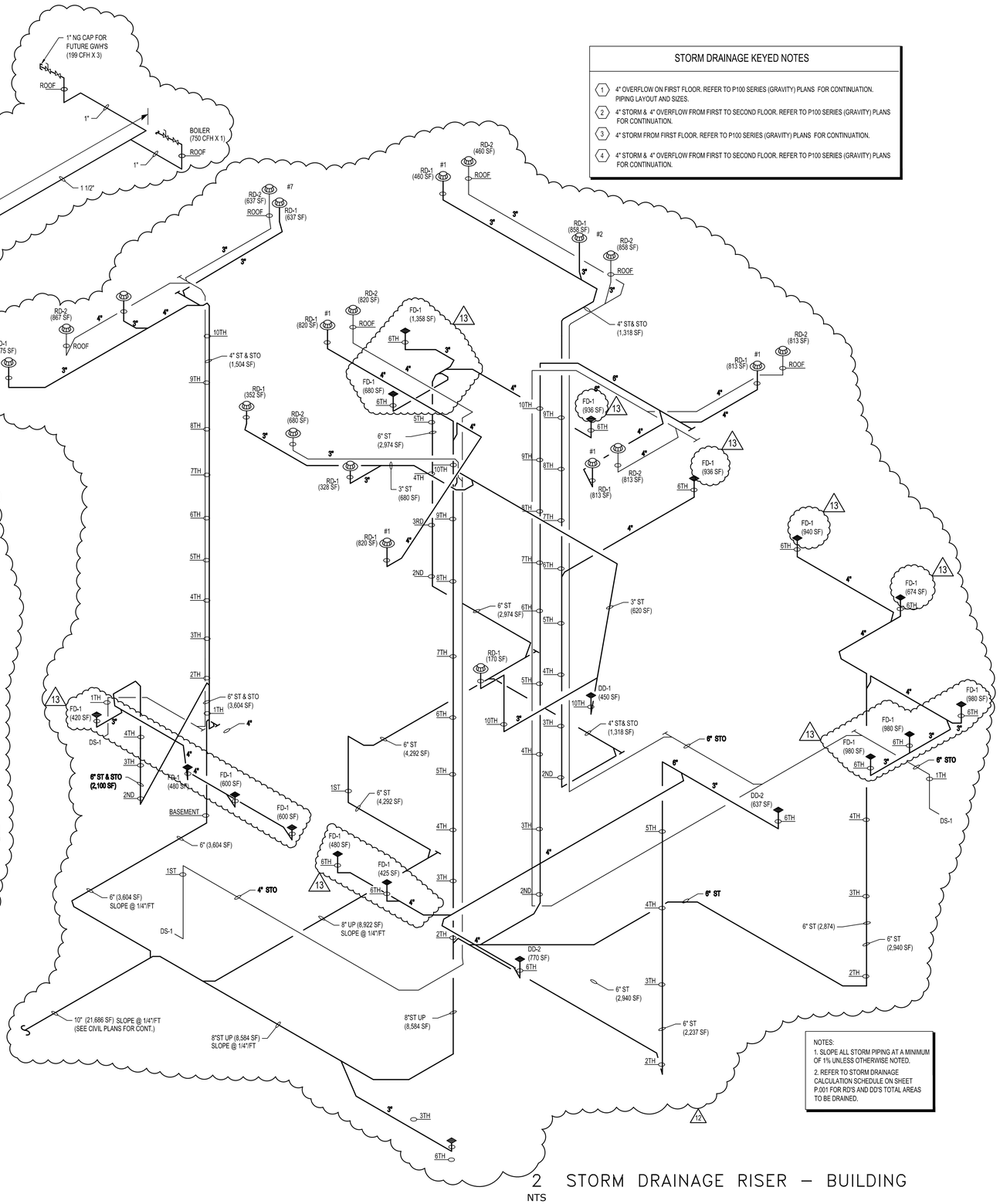
GENERAL NOTES

1. REFER TO ENLARGED FLOOR PLANS FOR UNITS PIPING LAYOUT, SHUT-OFF VALVES LOCATION AND SIZES.
2. - MANUAL GAS SHUT OFF VALVE. THE VALVE SHALL COMPLETELY SHUT OFF GAS SUPPLY WITH ONE-QUARTER (1/4) TURN.
3. - MANUAL GAS SHUT OFF VALVE. THE VALVE SHALL COMPLETELY SHUT OFF GAS SUPPLY WITH ONE-QUARTER (1/4) TURN.
4. LOUVERS ARE REQUIRED TO SUPPLY COMBUSTION AIR FOR SPA HEATERS. REFER TO MECHANICAL SHEET M108 FOR LOUVERS INSTALLATION DETAIL AND NOTE 5 AND.

1 NATURAL GAS RISER – BUILDING
NTS

STORM DRAINAGE KEYED NOTES

1. 4" OVERFLOW ON FIRST FLOOR. REFER TO P100 SERIES (GRAVITY) PLANS FOR CONTINUATION. PIPING LAYOUT AND SIZES.
2. 4" STORM & 4" OVERFLOW FROM FIRST TO SECOND FLOOR. REFER TO P100 SERIES (GRAVITY) PLANS FOR CONTINUATION.
3. 4" STORM FROM FIRST FLOOR. REFER TO P100 SERIES (GRAVITY) PLANS FOR CONTINUATION.
4. 4" STORM & 4" OVERFLOW FROM FIRST TO SECOND FLOOR. REFER TO P100 SERIES (GRAVITY) PLANS FOR CONTINUATION.



NOTES:
1. SLOPE ALL STORM PIPING AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.
2. REFER TO STORM DRAINAGE CALCULATION SCHEDULE ON SHEET P.001 FOR RD'S AND DD'S TOTAL AREAS TO BE DRAINED.

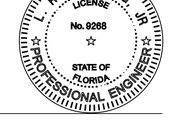
2 STORM DRAINAGE RISER – BUILDING
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L. Roland Young Jr., PE
PE#9268



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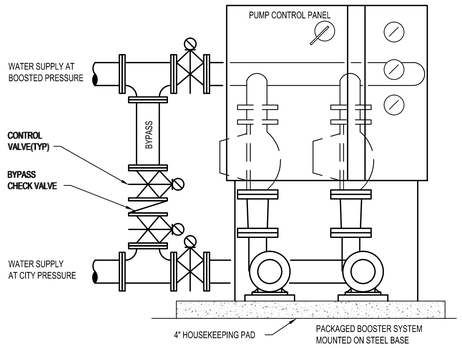
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CLEARWATER, FLORIDA 33755

NATURAL GAS RISER

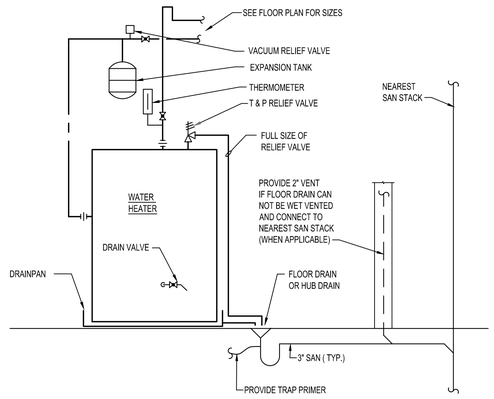
PROJECT NO.: 13270.99

P40□

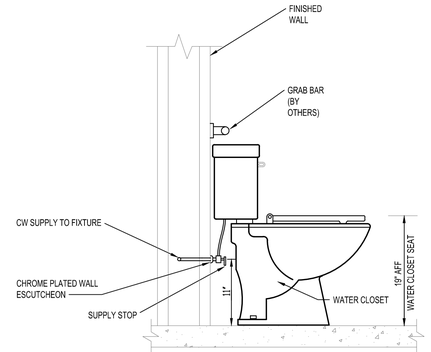


NOTE:
250 GPM @ 87' TDH EACH PUMP
10HP, 3450 RPM, 208V/3/60

BOOSTER PUMP - DUPLEX SYSTEM
No Scale | 5

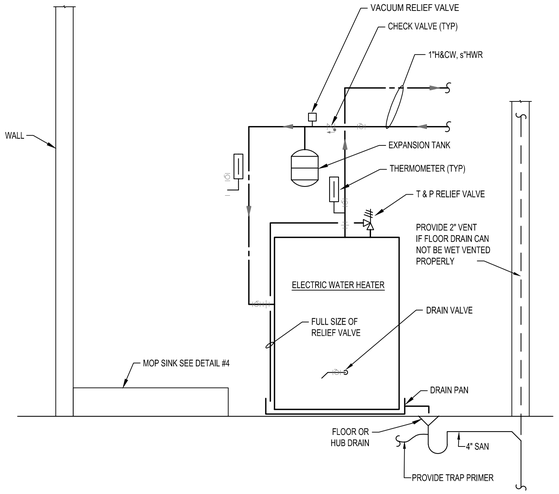


TYP. ELECTRIC WATER HEATER ON UNITS
No Scale | 3

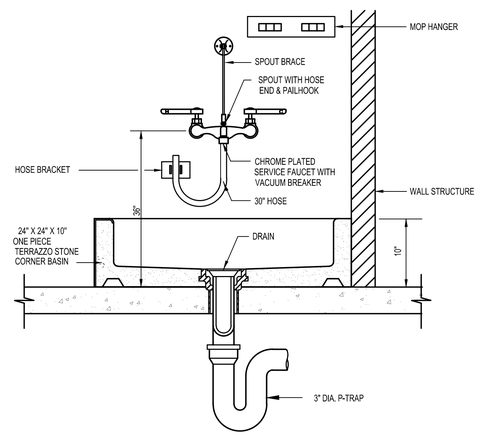


THE HANDLE OF THE FLUSH LEVER SHALL FACE THE WIDE SIDE OF THE STALL. (NO EXCEPTIONS).

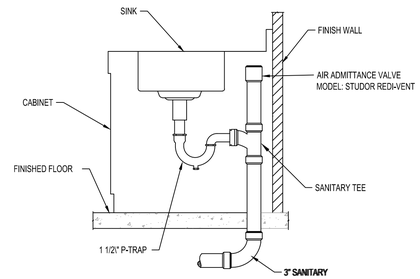
WATER CLOSET
No Scale | 1



10TH FLOOR ELECTRIC WATER HEATER
No Scale | 6



MOP SINK DETAIL
No Scale | 4



NOTE:
INSTALLATION SHALL COMPLY WITH LOCAL CODE REQUIREMENTS.

ISLAND SINK DRAIN
No Scale | 2

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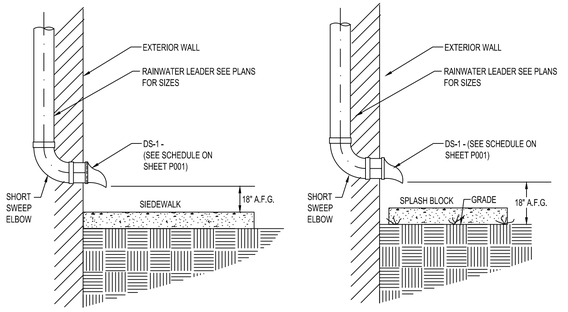
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DETAILS

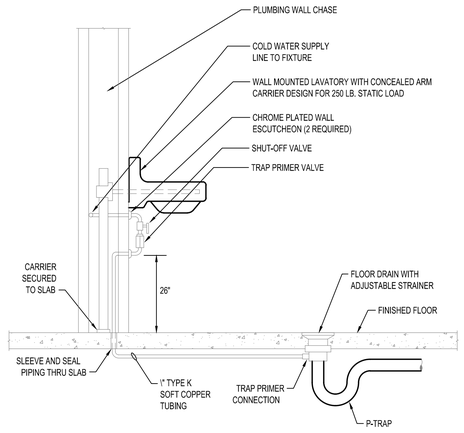
PROJECT NO.: 13270.99

P□01



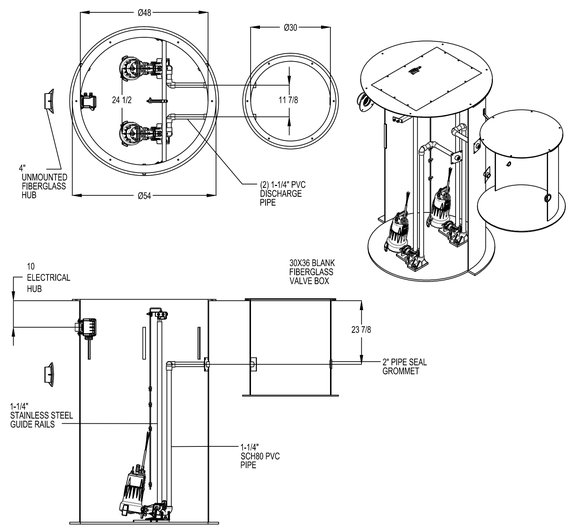
OVERFLOW DISCHARGE DETAIL
No Scale

5



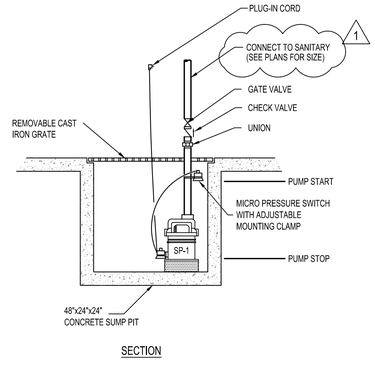
TRAP PRIMER
No Scale

3



LIFT STATION DETAIL
No Scale

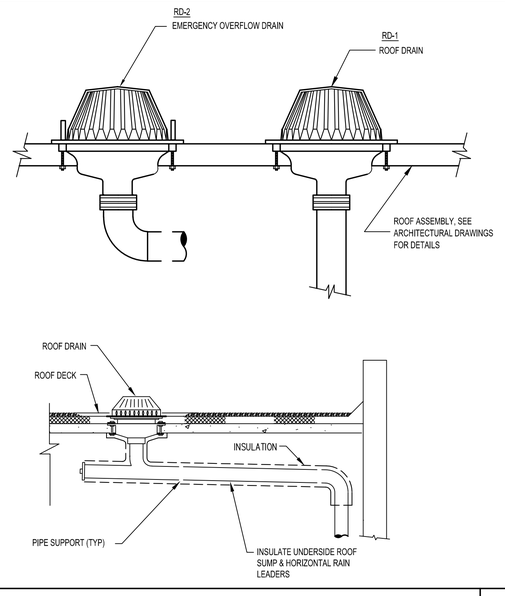
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SECTION

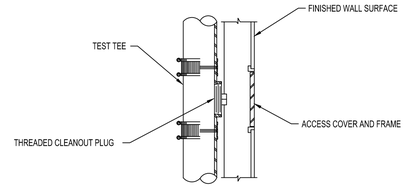
DUPLEX SUMP PUMP - SIMPLEX SYSTEM
No Scale

6



ROOF AND OVERFLOW DRAIN
No Scale

4



WALL CLEANOUT
No Scale

2

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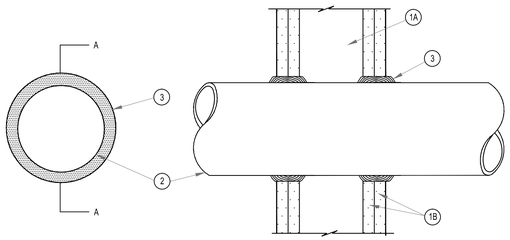
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400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

DETAILS

PROJECT NO.: 13270.99

P□02

System No. WL-1001
(Formerly System No. 147)
F Rating—1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings—0, 1, 2, 3, and 4 Hr (See Items 2 and 3)
L Rating at Ambient—less than 1 CFM/sq ft
L Rating At 400 F—less than 1 CFM/sq ft



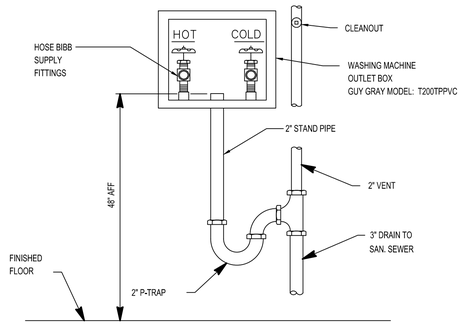
SECTION A-A

1. Wall Assembly—The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
   B. Wallboard, Gypsum *—Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.
2. Pipe or Conduit—Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 6 in. diam (or smaller) Type L or (or heavier) copper tubing or nom 1 in. diam (or smaller) flexible steel conduit. When copper pipe is used, max F Rating of firestop system (Item 3) is 2 h. Steel pipes or conduits larger than nom 4 in. diam may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
3. Fill, Void or Cavity Material*—Caulk—Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

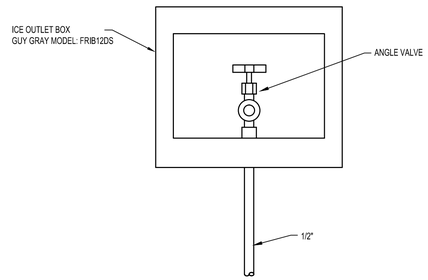
Max pipe or Conduit Diam In.	Annular Space In.	F Rating Hr.	T Rating Hr.
1	3 to 3/16	1 or 2	0+, 1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1-1/2	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

+When copper is used, T Rating is 0h.
Minnesota Mining & Mfg. Co.—Types FB-2000, FB-2000+.
*Bearing the UL Classification Marking

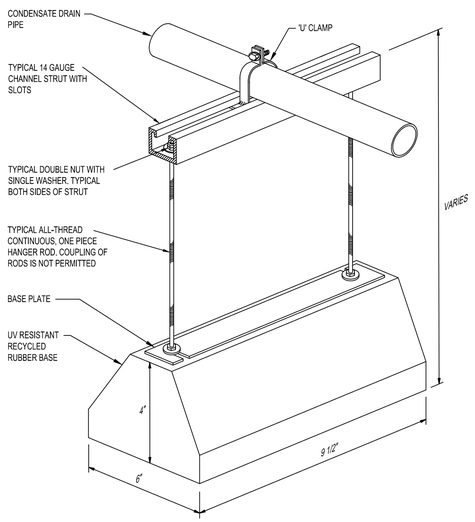
WALL - DRYWALL - PIPE - 1/2/3/4 HR
System No. W-L-1001 — 5



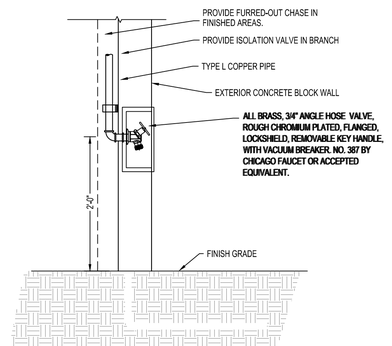
WASHING MACHINE HOOK-UP DETAIL - WM-1
No Scale — 3



METAL ICE MAKER VALVE BOX - OB-1
No Scale — 1



PIPE SUPPORT
No Scale — 4



EXTERIOR WALL HYDRANT
No Scale — 2

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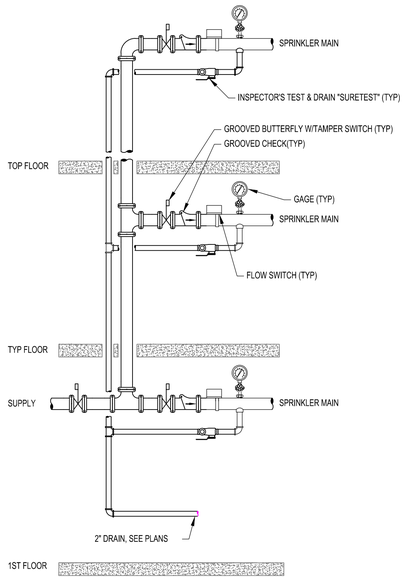
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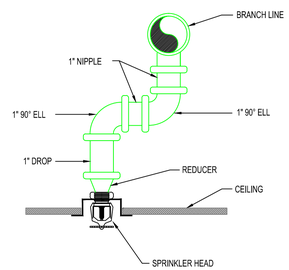
PROJECT NO.: 13270.99

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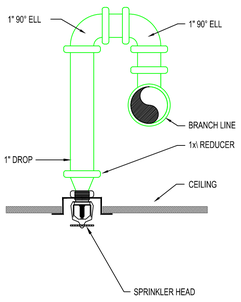
DETAILS

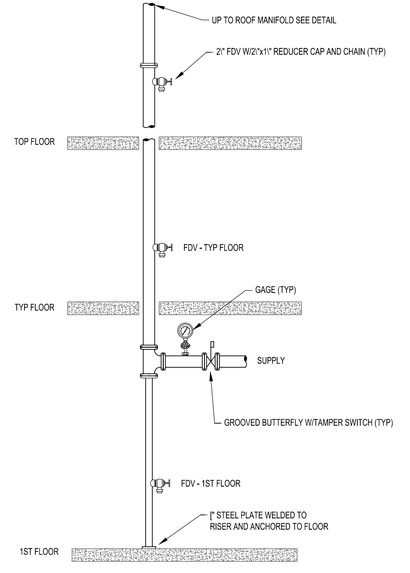


A NO SCALE **MULTI FLOOR SPRINKLER RISER**



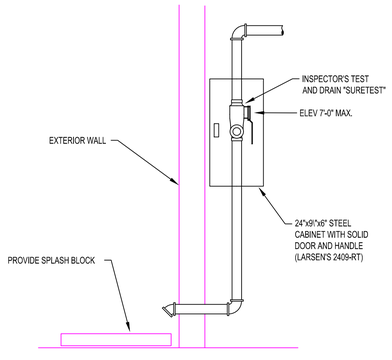
E NO SCALE **SWING JOINT**





B NO SCALE **STANDPIPE**

D NO SCALE **RETURN BEND**



C NO SCALE **INSPECTOR'S TEST**

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
F	FIRE SUPPLY PIPING		SUPERVISED SHUTOFF VALVE
SP	SPRINKLER SUPPLY PIPING		SUPERVISED VALVE IN VERTICAL
	CONCEALED SPRINKLER HEAD		FLOW SWITCH
	UPRIGHT SPRINKLER HEAD	F	DRAIN PIPING
	SIDEWALL SPRINKLER HEAD		FIRE HOSE VALVE
	PIPE TURNED UP	X	HYDRAULIC CALCULATION NODE
	PIPE TURNED DOWN		SIAMESE FIRE DEPT CONNECTION
	CAP ON LINE		SINGLE FIRE DEPT CONNECTION
	FLOOR CONTROL VALVE ASSEM		

SPRINKLER HEAD SCHEDULE

SYMBOL	MANUFACTURER/ MODEL	TYPE	RESPONSE	K-FACTOR	ORIFFICE	FINISH	REMARKS	
●	VIKING #VK462	CONCEALED	QUICK	5.6	1/2"	WHITE	–	
○	VIKING #VK300	UPRIGHT	QUICK	5.6	1/2"	ROUGH BRASS	–	
⊠	VIKING #VK300-D1	UPRIGHT	STANDARD RESPONSE	5.6	1/2"	ROUGH BRASS	–	
◁	VIKING #VK450	SIDEWALL	QUICK	4.2	1/2"	WHITE	RESIDENTIAL	
●	VIKING #VK456	CONCEALED	QUICK	4.9	1/2"	WHITE	RESIDENTIAL	

NOTES:
1. SPRINKLER HEADS SHALL BE ORDINARY TEMPERATURE UNLESS OTHERWISE NOTED
2. SPRINKLER GUARDS SHALL BE PROVIDED ON ALL SPRINKLER HEADS INSTALLED LOWER THAN 7'-6" ABOVE FINISH FLOOR AND/OR ARE SUBJECT TO DAMAGE

FIRE PROTECTION ABBREVIATIONS

ABV	ABOVE	(ETBR)	EXISTING TO BE REMOVED
AFF	ABOVE FINISHED FLOOR	FCVA	FLOOR CONTROL VALVE ASSEMBLY
AP	ACCESS PANEL	FDC	FIRE DEPARTMENT CONNECTION
ASSEM	ASSEMBLY	FHV	FIRE HOSE VALVE
BF	BELOW FLOOR	FLR	FLOOR
BLDG	BUILDING	FP	FIRE PROTECTION
BLW	BELOW	INCL'D	INCLUDING
CAB	CABINET	REQ'D	REQUIRED
CLG	CEILING	SP	SPRINKLER
COMBO	COMBINATION	SP HD	SPRINKLER HEAD
CONN	CONNECTION	STP	STANDPIPE
CONT	CONTINUATION	TYP	TYPICAL
DN	DOWN	US	UNDER SLAB
DWG	DRAWING	V/V	VALVE IN VERTICAL
(E)	EXISTING	W/	WITH
(ETR)	EXISTING TO REMAIN		

DIESEL FIRE PUMP SCHEDULE

SYMBOL	MANUFACTURER & MODEL #	TYPE	FLOW (GPM)	HEAD (FT)	SHUT-OFF HEAD (FT)	ELECTRICAL VOLTAGE	PHASE	HP	RPM	REMARKS
FP-1	AURORA 4-491-14C	HORIZONTAL SPLIT-CASE	750	120	133	N/A	N/A	84	2100	DIESEL ENGINE: CLARKE JU4H-UFAD5G, 113HP, 2100 RPM DIESEL FIRE PUMP CONTROLLER WITH ALARM INDICATORS: FIRETROL FTA1100
JP-1	AURORA PMV2-80D	HORIZONTAL SPLIT-CASE	7.5	130	-	230	3	2	2100	JOCKEY PUMP CONTROLLER FIRETROL MOD: FTA550F, 230V, 3PH, 2HP

ACCESSORIES
1. PROVIDE ALL REQUIRED ACCESSORIES INCLUDING: CONTROLLERS, SHUT OFF VALVES, CHECK VALVES, TAMPER SWITCHES, PRESSURE SWITCHES, HOSE VALVES, BALL DRIP VALVE, MAIN RELIEF VALVE, ENCLOSED WASTE CONE, FLOW METER, CONCENTRIC TAPERED DISCHARGE INCREASER AND SUCTION REDUCER, AND ALL OTHER ITEMS REQUIRED BY NFPA-20 AND THE LOCAL AUTHORITY HAVING JURISDICTION.
2. DRIVER ACCESSORIES: DIESEL ENGINE, MUFFLER: COMMERCIAL TESTS, FUEL TANK AND FUEL FITTINGS PER NFPA 20 AND THE LOCAL AUTHORITY HAVING JURISDICTION.

FIRE PROTECTION GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE AN APPROVED AUTOMATIC FIRE PROTECTION SYSTEM AS PER NFPA 13, NFPA 14, NFPA 24, FLORIDA BUILDING CODE, FLORIDA FIRE PREVENTION CODE, AND ALL STATE & LOCAL REQUIREMENTS. SUBMIT DETAILED DRAWINGS AND CALCULATIONS TO FIRE MARSHAL FOR APPROVAL AND FIRE MARSHAL APPROVED DRAWINGS TO ENGINEER. PRIOR TO START OF ANY WORK, SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIAL TO THE ENGINEERS FOR APPROVAL. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND SUBMIT FOR APPROVAL BY ARCHITECT AND ENGINEER.
2. WORK INCLUDED: COMPLETE AUTOMATIC SPRINKLER SYSTEMS INCLUDING BUT NOT LIMITED TO THE FOLLOWING AS REQUIRED:
   A. INTERIOR SYSTEMS INCLUDING PIPING, PIPING ACCESSORIES, FITTINGS, SPRINKLERS, HANGERS, SUPPORTS, SLEEVES, VALVES, WALL INDICATORS, LOCKING DEVICES, ALARM CHECK VALVE, WATER MOTOR GONG, ALARM BELL AND SPARE SPRINKLER AND TOOL CABINET. INSPECTOR'S TEST SHALL BE LOCATED IN CORRIDOR IN TAMPERPROOF CABINET.
   B. TRENCHING, EXCAVATION AND BACKFILLING IN CONNECTION WITH THE WORK.
   C. CUTTING AND PATCHING IN CONNECTION WITH THE WORK.
   D. TESTING, CLEANING, ADJUSTING AND PLACING IN OPERATION ALL SYSTEMS AND EQUIPMENT SPECIFIED.
   E. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THEIR WORK WITH THAT OF ALL OTHER TRADES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, HVAC, PLUMBING, FIRE ALARM, TELCOM, STRUCTURAL, CIVIL, AND GENERAL ARCHITECTURE. THIS SHALL INCLUDE PROVIDING SUFFICIENT SPACE TO MEET ALL OTHER TRADE CLEARANCE REQUIREMENTS.
   F. ALL SYSTEM PIPING SHALL BE CONCEALED UNLESS OTHERWISE NOTED. NOTIFY THE ARCHITECT IF PIPING CANNOT BE CONCEALED.
3. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
4. PROVIDE AND MAINTAIN A MINIMUM CLEARANCE OF 18" BETWEEN THE BOTTOM OF THE SPRINKLER DEFLECTOR AND THE TOP OF STORAGE, FILE, SHELVING, ETC.
5. ALL LIGHT HAZARD SPACES SHALL BE PROTECTED WITH QUICK RESPONSE SPRINKLER HEADS. ALL ORDINARY HAZARD SPACES SHALL BE PROTECTED WITH STANDARD RESPONSE SPRINKLER HEADS.
6. SPRINKLER PROTECTION SHALL BE PROIVDED UNDER ALL FIXED OBSTRUCTIONS OVER 48" WIDE. ALL SPRINKLER HEADS USED IN THIS APPLICATION SHALL BE PROTECTED THROUGH THE USE OF A LISTED GUARD.
7. SEAL ALL EXISTING AND NEW FLOOR/ROOF/WALL PENETRATIONS AS REQUIRED TO MAINTAIN INTEGRITY OF LISTED ASSEMBLY AND PROVIDE SLEEVE WHERE REQUIRED.

SPRINKLER DESIGN CRITERIA

TYPE OF SYSTEM:	AUTOMATIC WET
HAZARD CLASSIFICATION:	LIGHT ORDINARY GROUP 1- MECHANICAL/ELEC ROOMS, STORAGE ROOMS
CONSTRUCTION STANDARDS:	FLORIDA BUILDING CODE 2010 ED INCLUDING ALL SUPPLEMENTS, FLORIDA FIRE PREVENTION CODE, NFPA 13, NFPA 14, NFPA 20
DESIGN DENSITY:	LIGHT HAZARD- 0.10 GPM/SQ FT OVER 1500 SQ FT ORDINARY GROUP 1- 0.15 GPM/SQ FT OVER 1500 SQ FT

CODE COMPLIANCE

1. **TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2010 FLORIDA BUILDING CODE, 2010 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.**

FIRE PROTECTION INDEX

SHEET #	SHEET TITLE
FP001	FIRE PROTECTION COVERSHEET
FP100	SITE FIRE PROTECTION PLAN
FP101	BASEMENT FLOOR PLAN - FIRE PROTECTION
FP102	FIRST FLOOR PLAN - FIRE PROTECTION
FP103	SECOND FLOOR PLAN - FIRE PROTECTION
FP104	THIRD - FOURTH FLOOR PLAN - FIRE PROTECTION
FP105	FIFTH FLOOR PLAN - FIRE PROTECTION
FP106	SIXTH FLOOR PLAN - FIRE PROTECTION
FP107	SEVENTH FLOOR PLAN - FIRE PROTECTION
FP108	EIGHT FLOOR PLAN - FIRE PROTECTION
FP109	NINTH FLOOR PLAN - FIRE PROTECTION
FP110	TENTH FLOOR PLAN - FIRE PROTECTION
FP111	ROOF PLAN - FIRE PROTECTION

GENERAL NOTES

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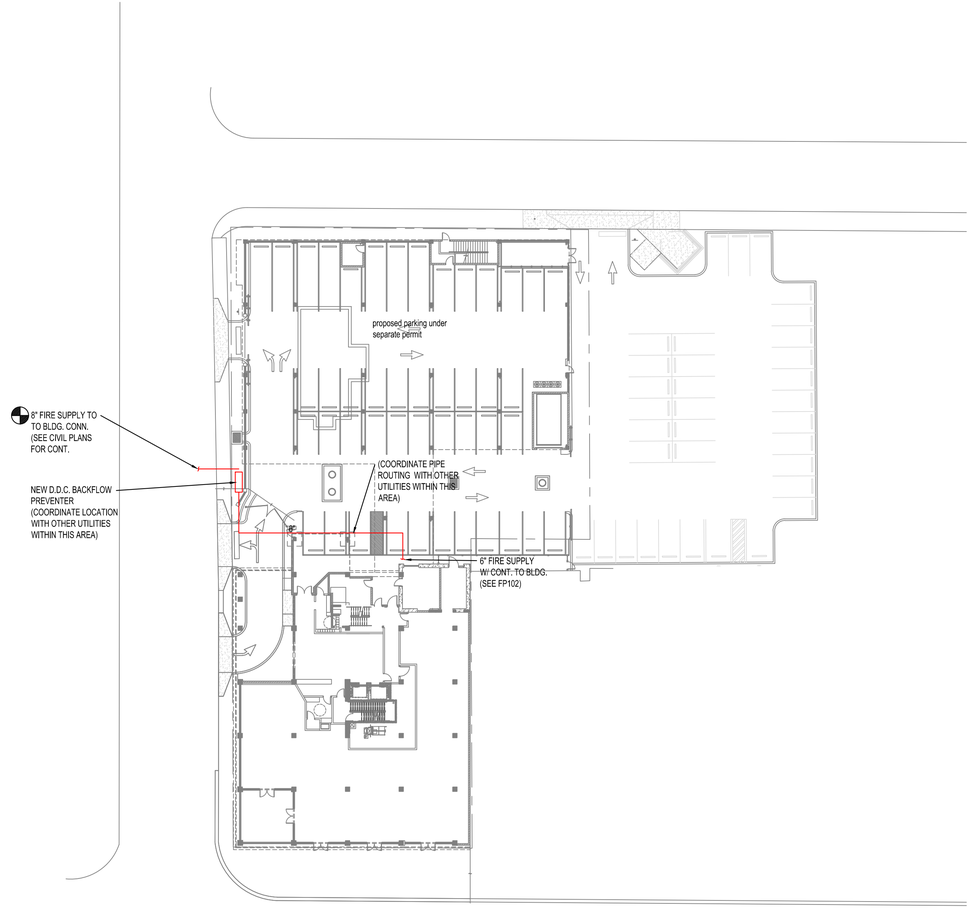
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FIRE PROTECTION LEGEND SYMBOLS AND GENERAL NOTES

PROJECT NO.: 13270.99

FP001

FP001 | **FIRE PROTECTION LEGEND SYMBOLS AND GENERAL NOTES**
N.T.S.



DRAWING NOTE

THIS DRAWING IS BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY. IT'S SOLE PURPOSE IS FOR HYDRAULIC CALCULATION VERIFICATION. IT SHALL NOT BE REFERENCED IN ANY MANNER FOR CONSTRUCTION PURPOSES. FOR ALL SITE WORK REFER TO CIVIL ENGINEERING DOCUMENTS.

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SITE FIRE PROTECTION PLAN

PROJECT NO.: 13270.99

FP100

FP100 | **SITE FIRE PROTECTION PLAN**
1/8" ☐ 1☐"

DRAWING NOTE

PROVIDE NEW WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. ORDINARY HAZARD SPACING SHALL APPLY TO STORAGE ROOMS, MECHANICAL / ELECTRICAL ROOMS, PORTE COCHERE AND FUTURE SPACES. LIGHT HAZARD OCCUPANCY SHALL APPLY TO ALL OTHER SPACES AND CONDO UNITS.

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GENERAL NOTES

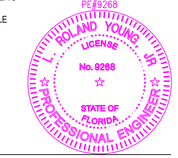
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THE SKYVIEW CONDOMINIUMS

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BASEMENT FLOOR PLAN ☐FIRE PROTECTION

PROJECT NO.: 13270.99

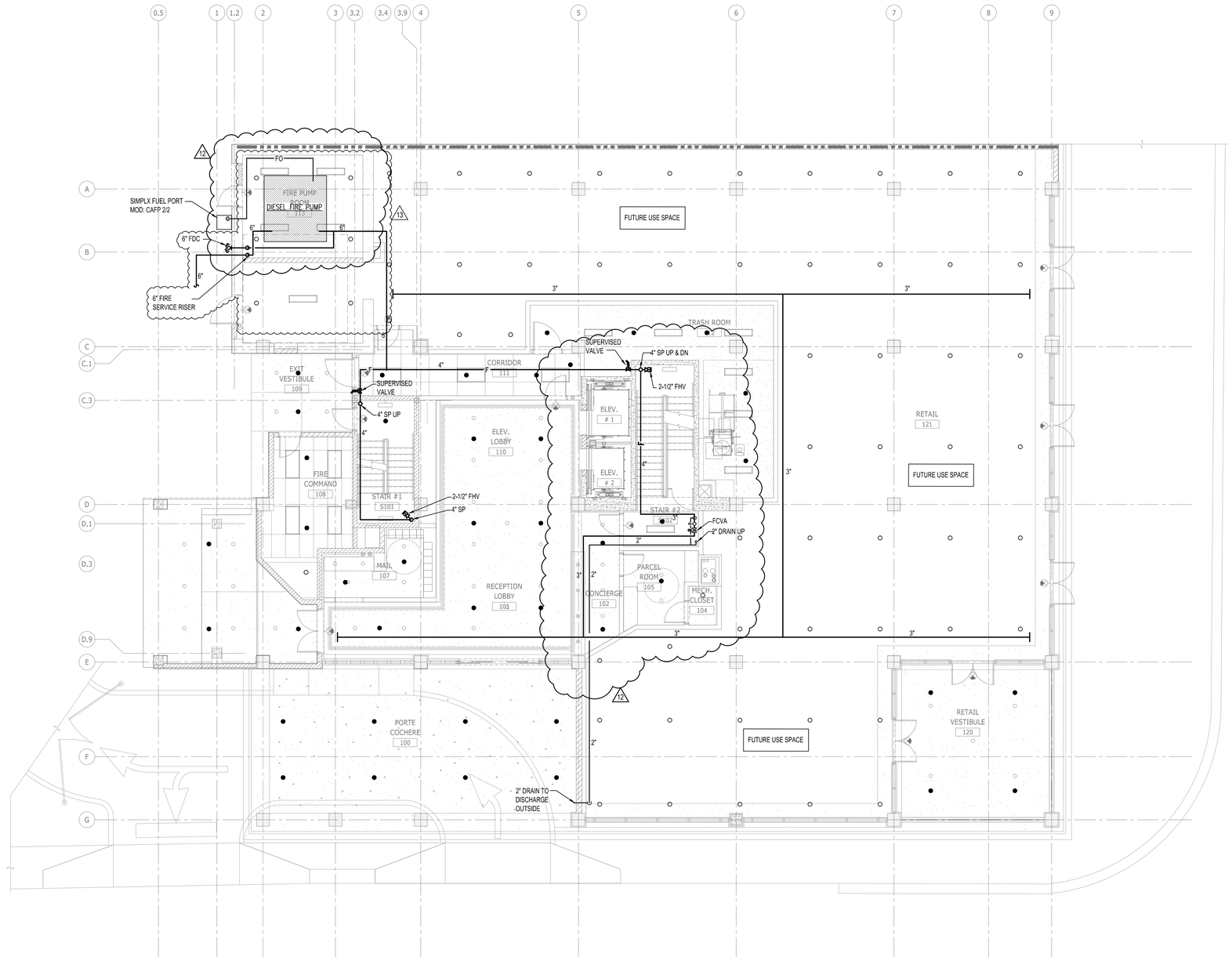
FP101

FP101 | **BASEMENT FLOOR PLAN ☐FIRE PROTECTION**
1/8" ☐ 1☐D"

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FIRST FLOOR PLAN ☐ FIRE PROTECTION

PROJECT NO.: 13270.99

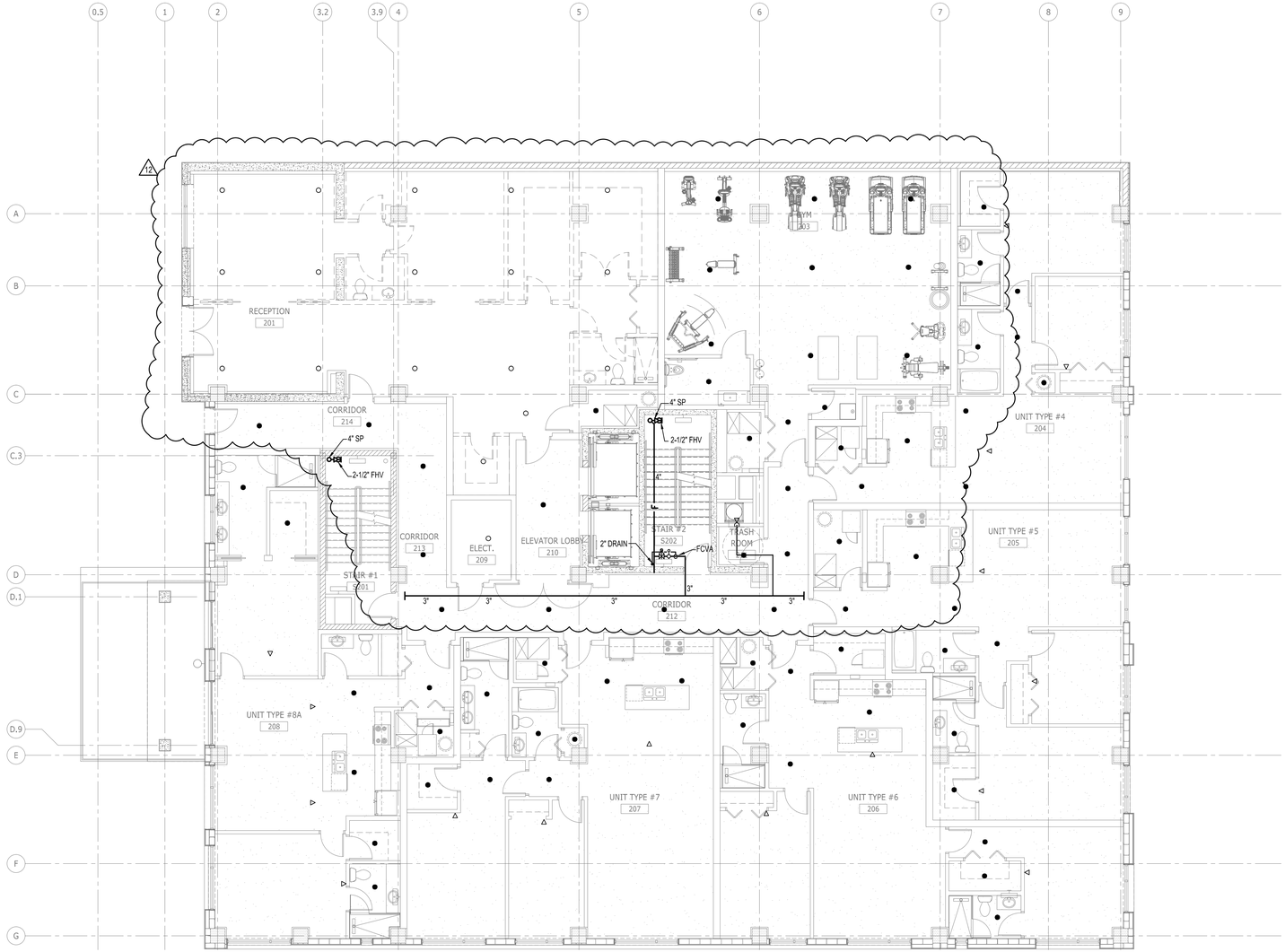
FP102

FP102 | FIRST FLOOR PLAN ☐FIRE PROTECTION
1/8" ☐ 1☐0"

DRAWING NOTE

PROVIDE NEW WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13.
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N

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SECOND FLOOR PLAN ☐FIRE PROTECTION

PROJECT NO.: 13270.99

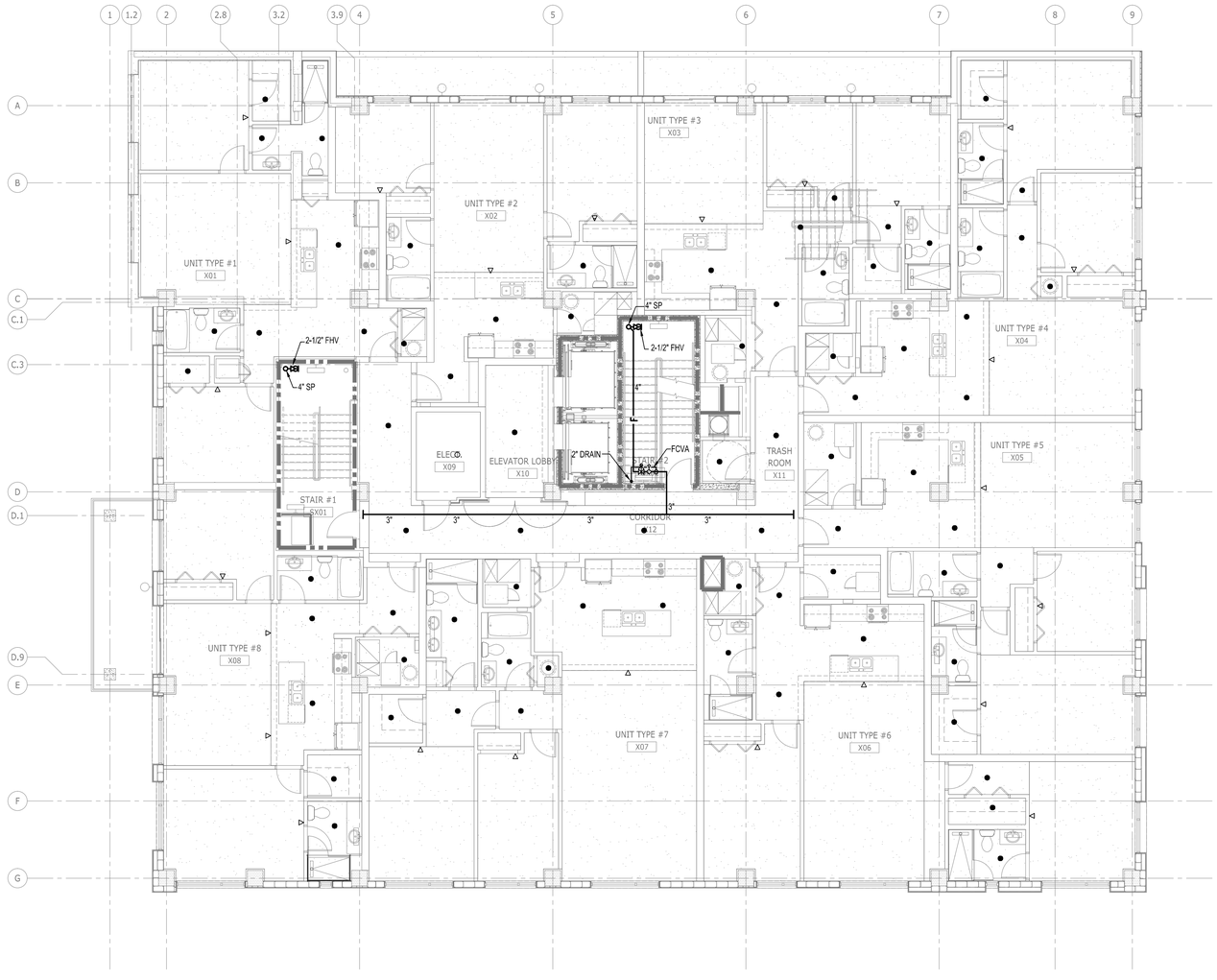
FP103

FP103 | **SECOND FLOOR PLAN ☐FIRE PROTECTION**
1/8" ☐ 1☐"

DRAWING NOTE

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THIRD ☐FOURTH FLOOR PLAN ☐FIRE PROTECTION

PROJECT NO.: 13270.99

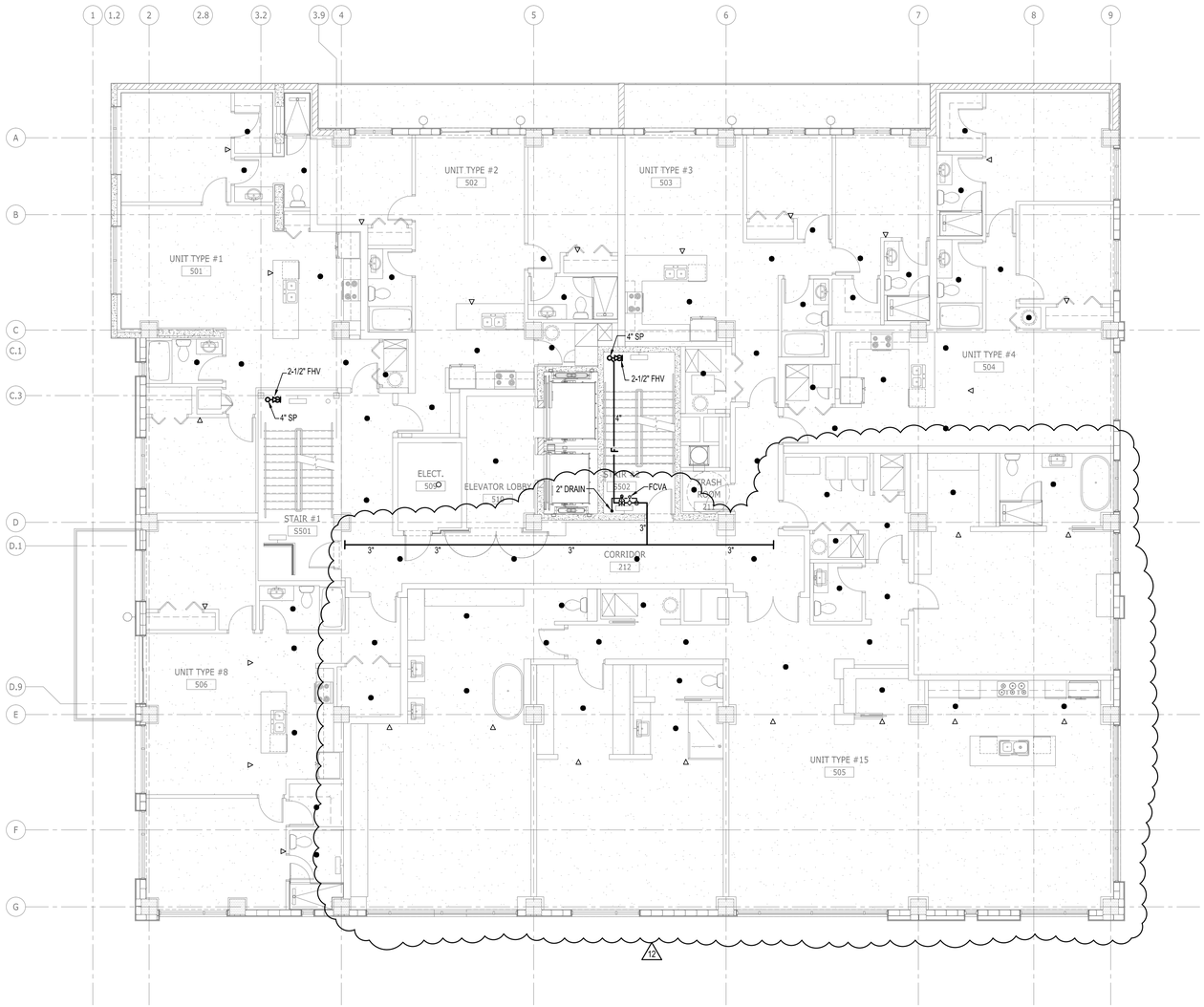
FP104

FP104 | **THIRD ☐FOURTH FLOOR PLAN ☐FIRE PROTECTION**
1/8" ☐ 1☐D"

DRAWING NOTE

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COA 27158 Project No. 13097

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THE SKYVIEW CONDOMINIUMS

400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

FIFTH FLOOR PLAN ☐ FIRE PROTECTION

PROJECT NO.: 13270.99

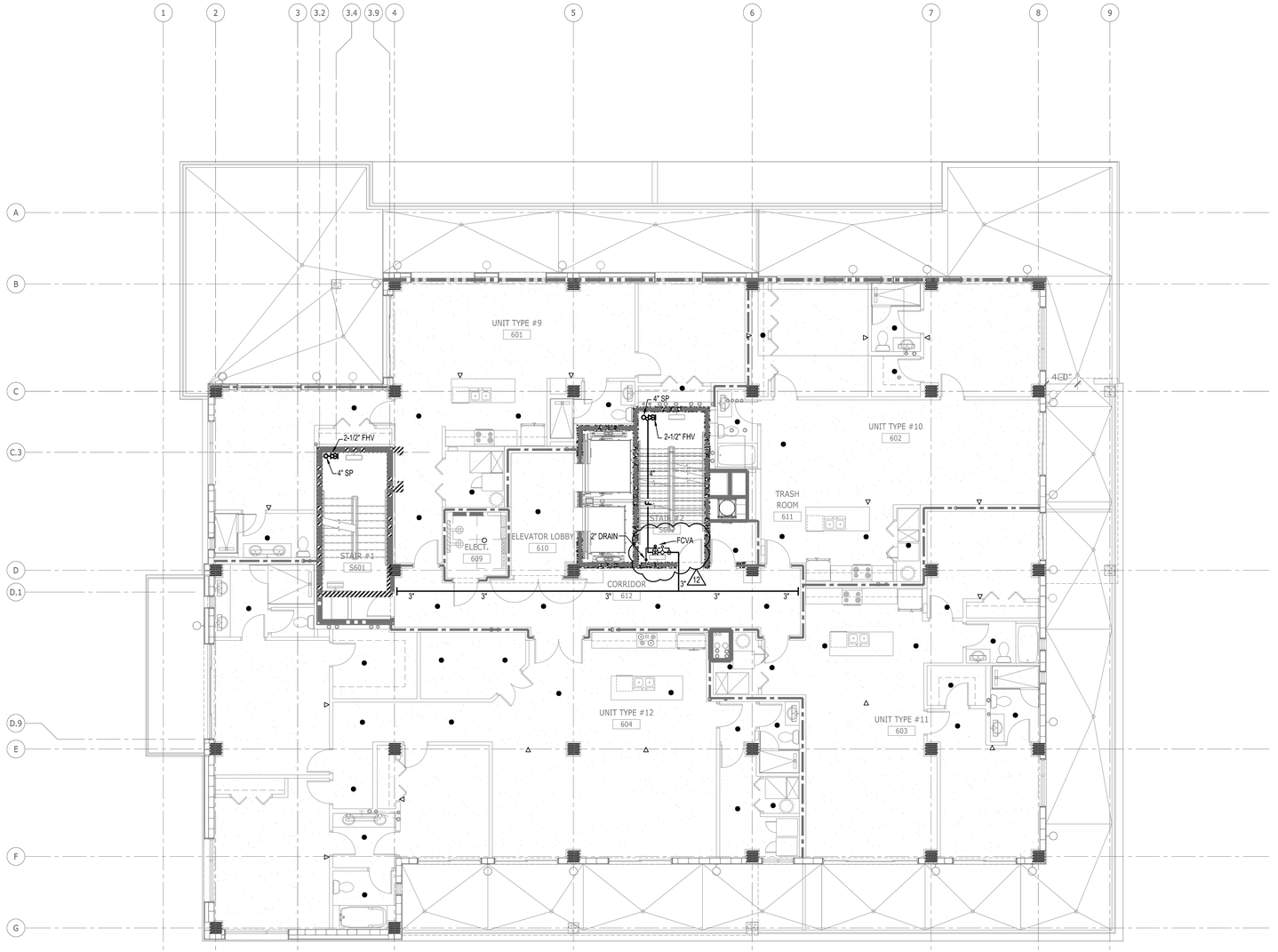
FP10☐

FP10☐ | **FIFTH FLOOR PLAN ☐FIRE PROTECTION**
1/8" ☐ 1☐0"

DRAWING NOTE

PROVIDE NEW WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. ORDINARY HARAZD SPACING SHALL APPLY TO STORAGE ROOMS, MECHANICAL / ELECTRICAL ROOMS, PORTE COCHERE AND FUTURE SPACES.
LIGHT HAZARD OCCUPANCY SHALL APPLY TO ALL OTHER SPACES AND CONDO UNITS.

ALL SPRINKLER SUPPLY PIPING SERVING ONE (1) SPRINKLER HEAD SHALL BE 1" IN SIZE.



GENERAL NOTES

1.

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

L. Roland Young Jr., PE
PE#9288

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SI□TH FLOOR PLAN □ FIRE PROTECTION

PROJECT NO.: 13270.99

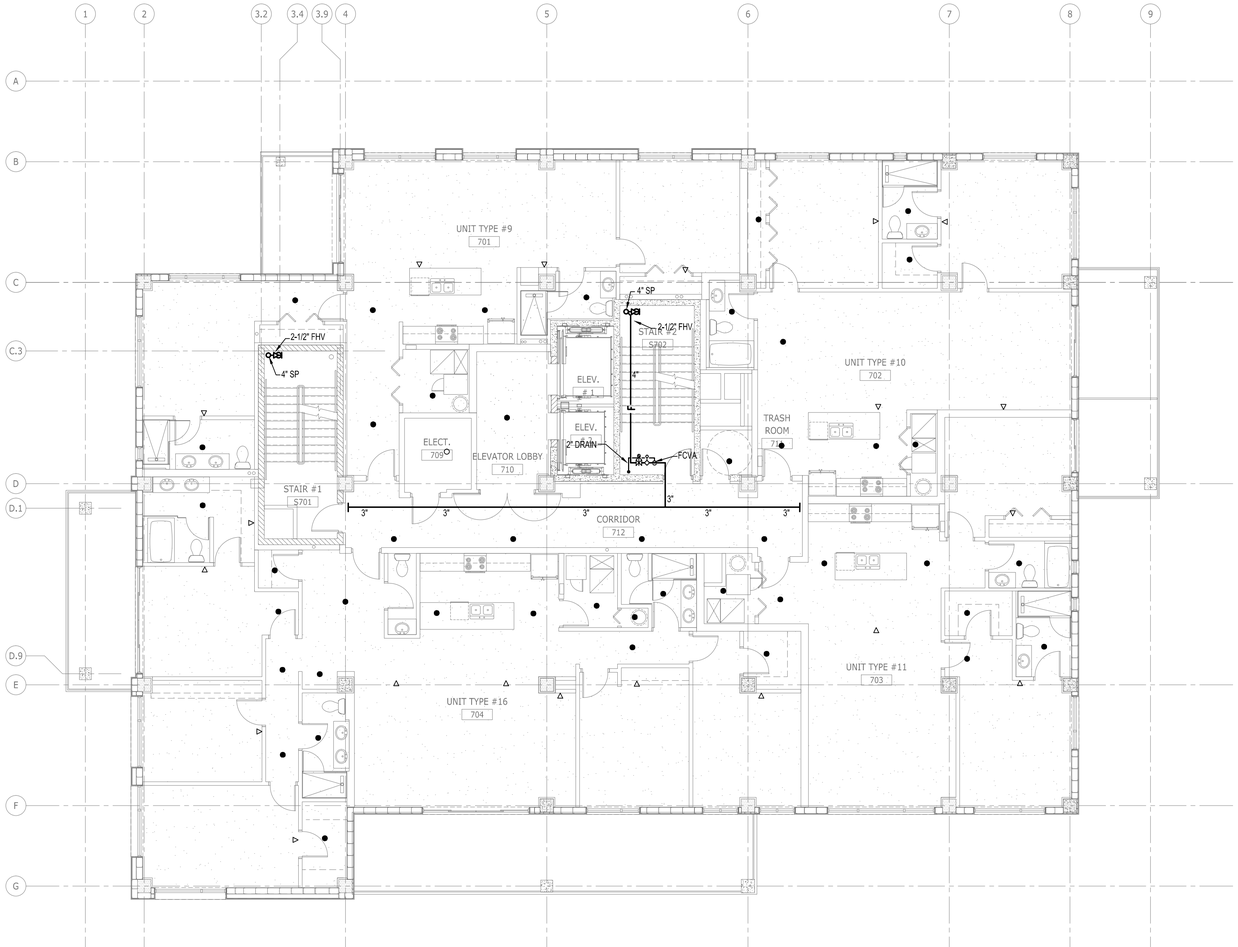
FP106

FP106 | **SI□TH FLOOR PLAN □FIRE PROTECTION**
1/8" □ 1□0"

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SEVENTH FLOOR PLAN ☐ FIRE PROTECTION

PROJECT NO.: 13270.99

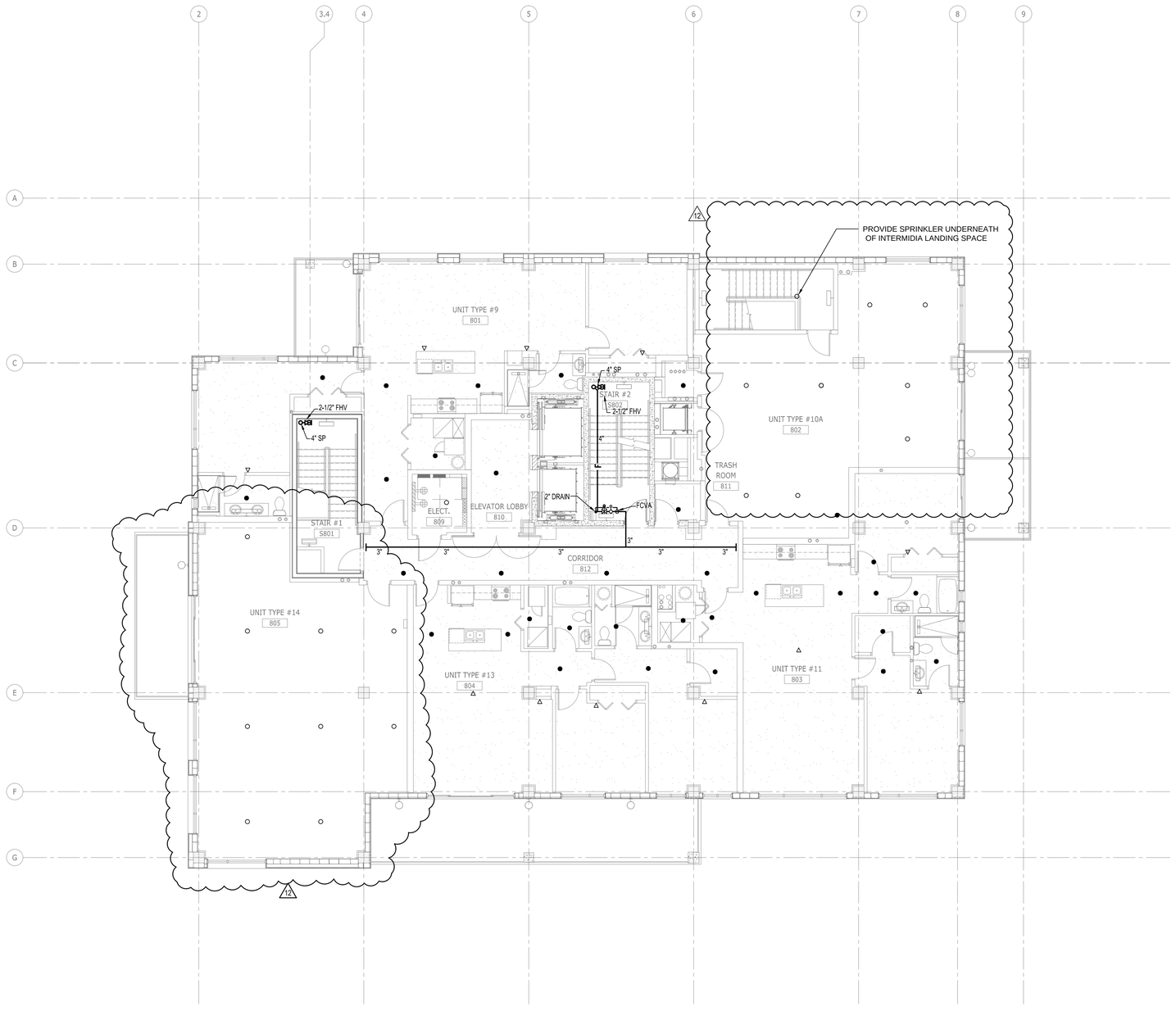
FP10☐

FP10☐ SEVENTH FLOOR PLAN ☐FIRE PROTECTION
1/8" ☐ 1☐"

DRAWING NOTE

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ALL SPRINKLER SUPPLY PIPING SERVING ONE (1) SPRINKLER HEAD SHALL BE 1" IN SIZE.



FP10☐ **EIGHT FLOOR PLAN ☐FIRE PROTECTION**
1/8" ☐ 1☐0"

GENERAL NOTES

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EIGHT FLOOR PLAN ☐ FIRE PROTECTION

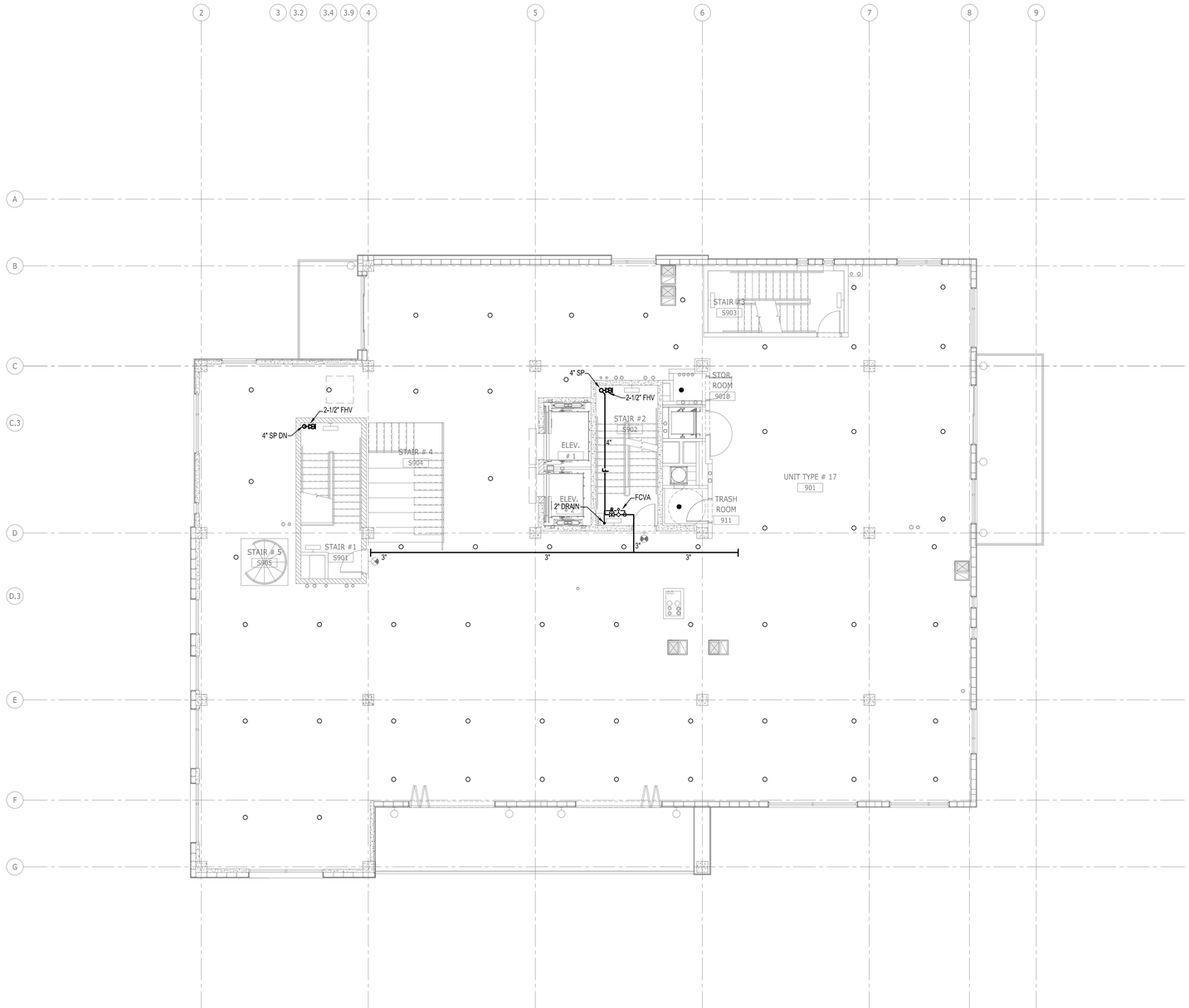
PROJECT NO.: 13270.99

FP10☐

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NINTH FLOOR PLAN ☐ FIRE PROTECTION

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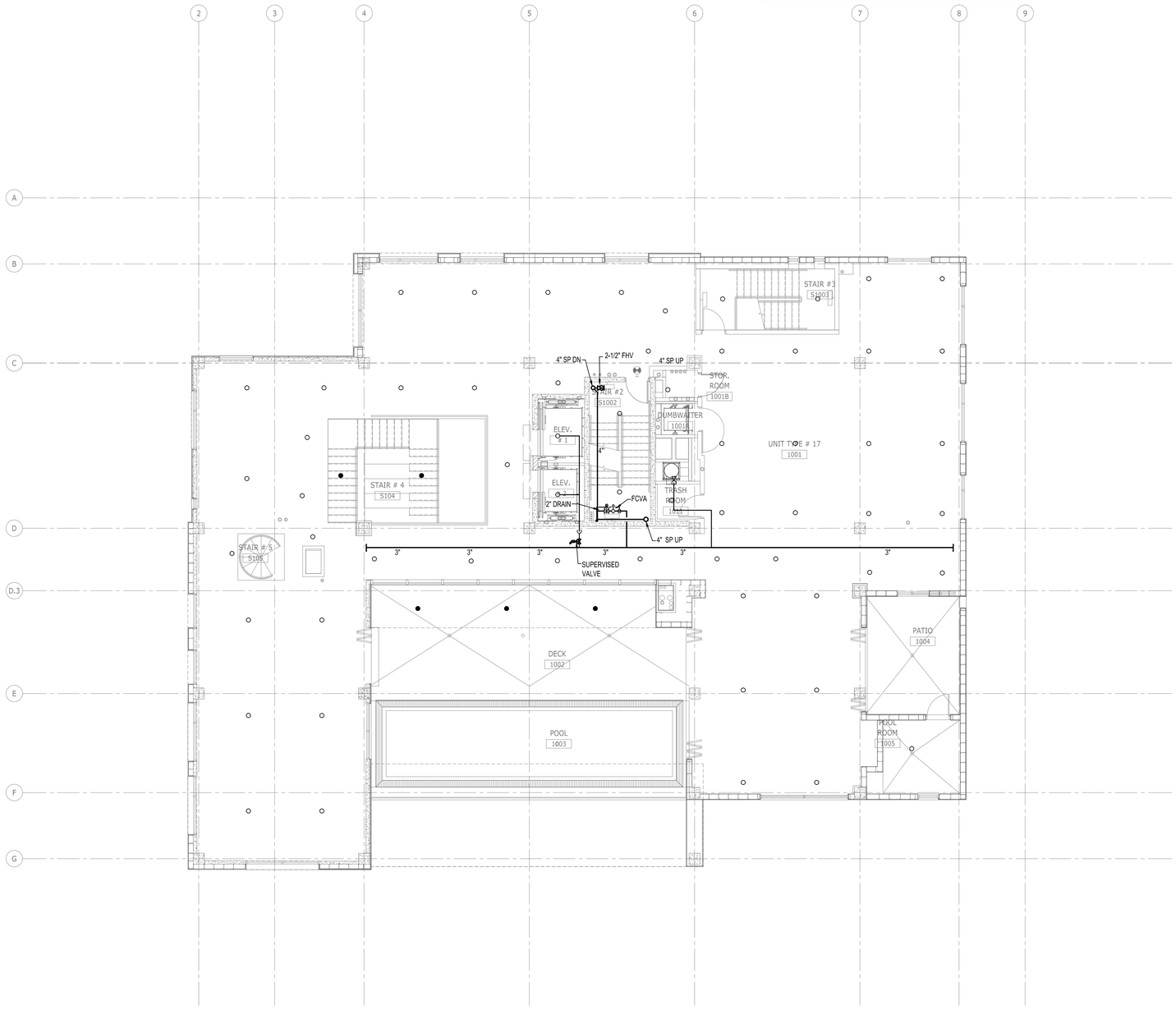
FP10☐

FP10☐ NINTH FLOOR PLAN ☐FIRE PROTECTION
1/8" ☐ 1☐0"

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12

TENTH FLOOR PLAN ☐ FIRE PROTECTION

PROJECT NO.: 13270.99

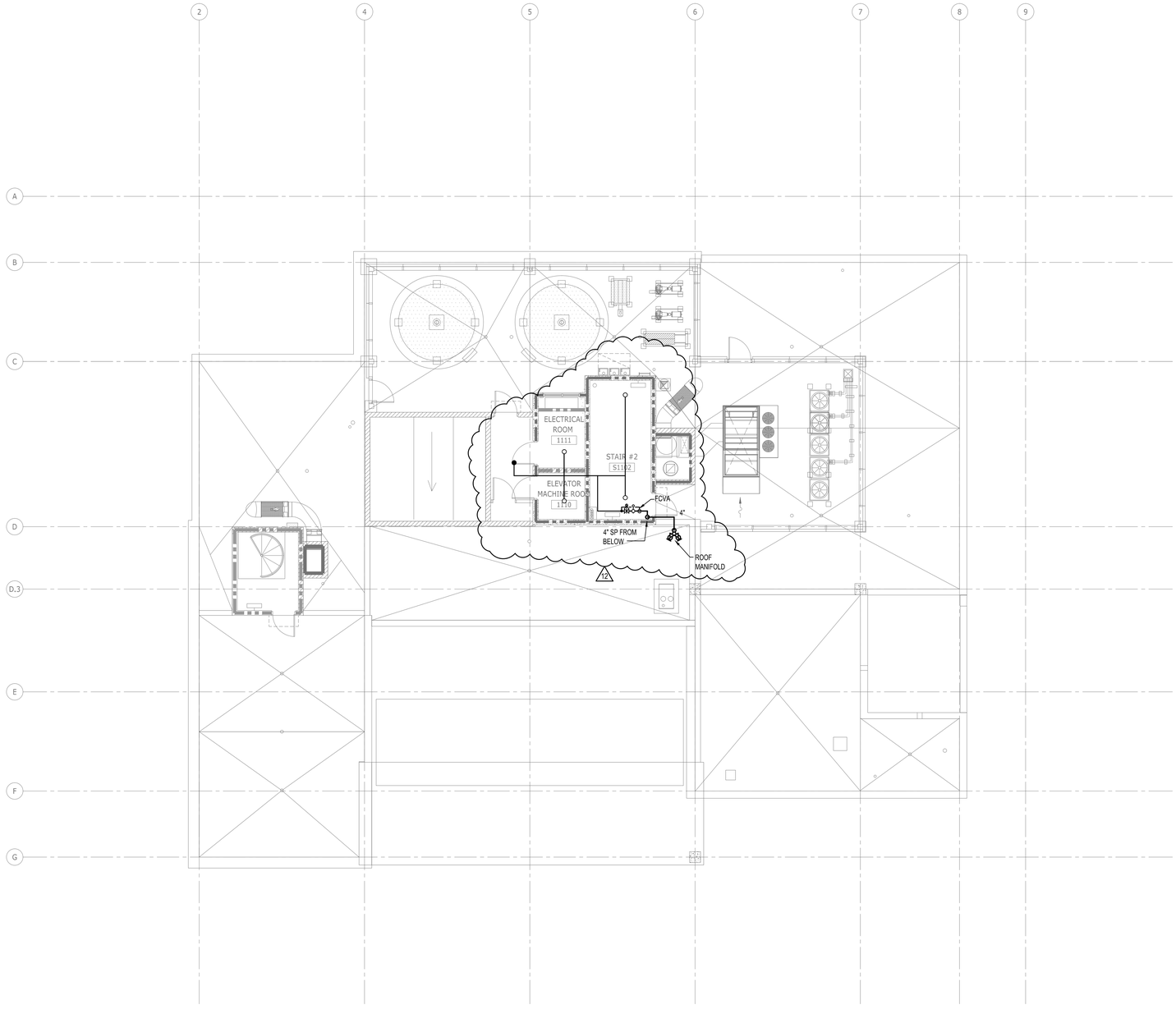
FP110

FP110 | **TENTH FLOOR PLAN ☐FIRE PROTECTION**
1/8" ☐ 1☐D"

DRAWING NOTE

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FP111 | **ROOF PLAN ☐FIRE PROTECTION**
1/8" ☐ 1☐0"

GENERAL NOTES

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FP111

ELECTRICAL SYMBOLS LEGEND

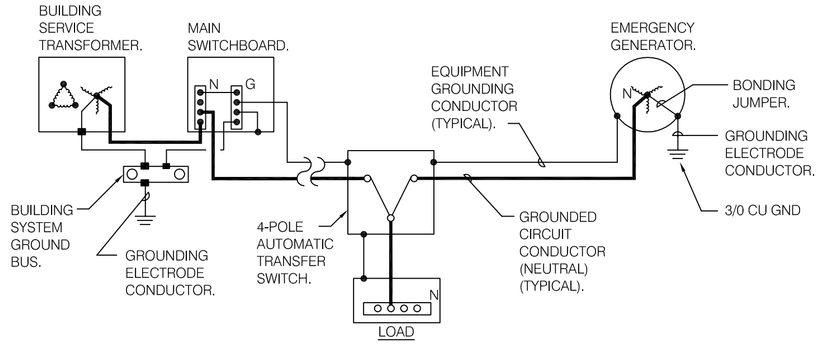
- LINEAR FLUORESCENT LIGHT FIXTURE - RECESSED NORMAL POWER
- LINEAR FLUORESCENT LIGHT FIXTURE - RECESSED LIFE SAFETY POWER/NL
- LINEAR FLUORESCENT LIGHT FIXTURE - RECESSED FLANGE, SURFACE, OR PENDANT MOUNTED NORMAL POWER
- LINEAR FLUORESCENT LIGHT FIXTURE - RECESSED FLANGE, SURFACE, OR PENDANT MOUNTED LIFE SAFETY POWER, NL=UNSWITCHED
- LINEAR FLUORESCENT STRIP LIGHT FIXTURE
- DOWN LIGHT FIXTURE
- DOWN LIGHT FIXTURE-LIFE SAFETY POWER
- WALL MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE-LIFE SAFETY POWER
- EXIT LIGHT - SINGLE FACE W/ DIRECTIONAL ARROW
- EXIT LIGHT - DOUBLE FACE
- S_a SINGLE POLE TOGGLE SWITCH (LOWER CASE LETTER DENOTES FIXTURE CONTROLLED
- S_3 THREE-WAY TOGGLE SWITCH
- S_4 FOUR-WAY TOGGLE SWITCH
- S_M MOTOR SWITCH
- S_F FAN SWITCH
- S_{3P} THREE POSITION SELECTOR SWITCH
- S_T TIMER SWITCH (60 MINUTES)
- S_{HOA} HAND-OFF-AUTOMATIC SWITCH
- PC PHOTOCELL
- LC LIGHTING CONTACTOR
- TC TIME CLOCK
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE MOUNTED 48", UNLESS NOTED OTHERWISE (TYPICAL FOR ALL RECEPTACLES)
- QUADRUPLEX RECEPTACLE
- GFI-TYPE DUPLEX RECEPTACLE WP DENOTES WEATHERPROOF COVER
- GFI-TYPE DOUBLE DUPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE (NEMA RATING AS INDICATED)
- CEILING MOUNTED DUPLEX RECEPTACLE
- POKE-THRU FLOOR BOX
- JUNCTION BOX
- JUNCTION BOX- WALL MOUNTED
- CATV OUTLET
- TELEPHONE OUTLET
- COMBINATION TELEPHONE/DATA OUTLET
- DOOR BELL PUSHBUTTON
- DOORBELL

- SD CO STAND-ALONE SMOKE/CARBON MONOXIDE DETECTOR
- CO CARBON MONOXIDE DETECTOR
- SP FIRE ALARM SPEAKER - CEILING MOUNTED
- F MANUAL PULL STATION DEVICE
- FM FIRE ALARM COMBINATION SPEAKER/STROBE DEVICE WITH MINIMUM 75CD RATING
- F FIRE ALARM STROBE ONLY DEVICE WITH MINIMUM 75CD RATING
- DH MAGNETIC DOOR HOLD
- HD HEAT DETECTOR - CEILING MOUNTED
- SD SMOKE DETECTOR - CEILING MOUNTED
- SD DUCT SMOKE DETECTOR S = SUPPLY, R = RETURN
- TS TAMPER SWITCH
- FS FLOW SWITCH
- R RELAY
- FJ FIREMAN PHONE JACK (12)
- 3P/60A NEMA 0 3R COMBINATION STARTER/DISCONNECT SWITCH, SHOWN SIZE 3-POLE, 60 AMP, NEMA 0 RATED 3R = NEMA 3R ENCLOSURE
- 2P/60A F:50A 3R DISCONNECT SWITCH, SHOWN SIZE - 2-POLE, 60 AMP, FUSED AT 50 AMP. NF = NON-FUSED 3R = NEMA 3R ENCLOSURE
- PANEL BOARD - SURFACE MOUNT, 240V AC
- PANEL BOARD - SURFACE MOUNT, ABOVE 240V AC
- SPD SURGE PROTECTION DEVICE
- ELECTRIC METER
- T TRANSFORMER
- MOTOR CONNECTION. HP DENOTES HORSEPOWER RATING
- GROUND BUS BAR
- HOMERUN TO PANEL, NUMBER OF ARROWS INDICATE NUMBER CIRCUITS IN CONDUIT
- WIRE IN CONDUIT CONCEALED, #12AWG SIZE WIRE IN 1" CONDUIT MINIMUM, UNLESS NOTED OTHERWISE
- WIRE IN CONDUIT CONCEALED BELOW SLAB OR GRADE
- CONDUIT EXPOSED
- EMPTY CONDUIT
- FLEXIBLE CONDUIT
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB
- UGC UNDERGROUND COMMUNICATIONS CONDUIT
- UGE UNDERGROUND ELECTRICAL CONDUIT
- 3/4" PLYWOOD TELEPHONE BACKBOARD
- CONCRETE ENCASED DUCTBANK

GENERAL NOTES:

1. #12 AWG NEUTRAL CONDUCTOR ALTHOUGH NOT INDICATED SHALL BE INCLUDED FOR EACH BRANCH CIRCUIT UNLESS OTHERWISE NOTED.
2. #12 AWG GREEN GROUND CONDUCTOR, ALTHOUGH NOT INDICATED SHALL BE INCLUDED IN EACH RACEWAY UNLESS OTHERWISE NOTED.
3. HOME RUNS TO PANEL BOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE) PLUS DEDICATED NEUTRAL FOR EACH PHASE CONDUCTOR AND GROUND CONDUCTOR IN EACH CONDUIT.

(1)



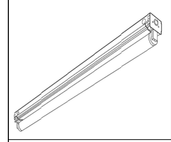
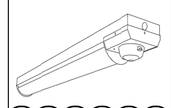
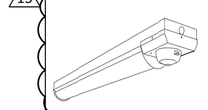
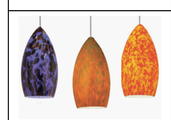
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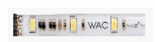
1. PHASE CONDUCTORS HAVE BEEN OMITTED FOR CLARITY.

SEPARATELY DERIVED GENERATOR SYSTEM GROUNDING

NOT TO SCALE

LIGHT FIXTURE SCHEDULE

IMAGE	TYPE	DESCRIPTION	MANUFACTURER	LAMP TYPE	VOLTAGE
	A	6" RECESSED LED	VANTAGE: A6/WSLED-VOLTS-20-40K-W6060-SGC OR APROVED EQUAL	LED 2000 LUMENS	UNV
	A1	4" LED CAN LIGHT	PRISCOLITE: LF4LEDG4-4LFLED5G440K OR APROVED EQUAL	LED 1100 LUMENS	UNV
	B	4'-0" 2-LAMP FLUORESCENT STRIP WITH WIRE GUARD	COLUMBIA: CH4-2-32-E-U-CHWG4 OR APPROVED EQUAL	2-F32 T8	UNV
	C	4'-0" 2-LAMP FLUORESCENT STAIRWELL WITH BI-LEVEL SWITCHING	COLUMBIA: BIL-4-2-32-EP-U OR APPROVED EQUAL	2-F32 T8	UNV
	CE	4'-0" 2-LAMP FLUORESCENT STAIRWELL WITH BI-LEVEL SWITCHING-EMERG. BATT.	COLUMBIA: BIL-4-2-32-EP-120-EL OR APPROVED EQUAL	2-F32 T8	UNV
	D	6" RECESSED LED	PRISCOLITE: DBXQL-LB6LEDA10L-30K-WH OR APROVED EQUAL	LED 1000 LUMENS	UNV
	F	LOW VOLTAGE PENDANT	WAC LIGHTING: MP918 (COLOR AND FINISH SELECTED BY OWNEF) OR APPROVED EQUAL	12V 50W	120
	G	LED LIGHT CHANNEL	EDGE LIGHTING: LCT1.6-10DC-48IN-30K-BK OR APPROVED EQUAL (COORDINATE MOUNTING WITH ARCHITECTURAL ELEVATIONS)	LED	120
	H	SURFACE MOUNTED 4'-0" LINEAR CLOUD FLUORESCENT	PROGRESS: P7279 OR APPROVED EQUAL	2-F32 T8	120
	J	BACK LIT LED MIRROR 28" X 36"	EDGE LIGHTING: SAIL-28X36-LED-27K	LED INCLUDED	120
	K	6" RECESSED SHOWER LED	PRISCOLITE: DBXQL-LB6LEDA10L-30K-WH OR APROVED EQUAL	LED 1000 LUMENS	UNV
	L	WALL MOUNTED OUTDOOR FIXTURE	ACCESS: 20302LEDMG OR APPROVED EQUAL	LED 322 LUMENS	120
	M	4' VAPORTIGHT FIXTURE	COLUMBIA: XEM42-32-RA-E-U OR APPROVED EQUAL	2-F32 T8	UNV

	N	LED COVE LIGHT	WAC LIGHTING: LED-TX24-45-LENGTH AS PER DETAIL-WT OR APPROVED EQUAL PROVIDE ALL JOINERS, ENDS, MOUNTING CLIPS AND TRANSFORMERS AS REQUIRED	LED	120
	N1	DIMMABLE LED COVE LIGHT	WAC LIGHTING: LED-TX24-45-LENGTH AS PER DETAIL-WT OR APPROVED EQUAL PROVIDE ALL JOINERS, ENDS, MOUNTING CLIPS AND DIMMING TRANSFORMERS AS REQUIRED	LED	120
	R	2X4 LAY-IN TROFFER	COLUMBIA: JT824-232G-FSA12-EU-F0735-GLR OR APPROVED EQUAL	2-F32 T8	UNV
	S	1X4 SURFACE MOUNTED CORRIDOR LIGHT	COLUMBIA: RO-4-232-EU-GLR OR APPROVED EQUAL	2-F32 T8	UNV
	T	LINEAR WET LOCATION LED	VISUAL LIGHTING TECHNOLIGIES: 1022-3000K OR APPROVED EQUAL PROVIDE ALL JOINERS, ENDS, MOUNTING CLIPS AND TRANSFORMERS AS REQUIRED(COORDINATE MOUNTING WITH ARCHITECTURAL ELEVATIONS AND DETAILS)	LED	120
	V	WALL MOUNTED QUARTER SPHERE	HUBBELL#QSP-42F8-WT-BL-PC OR APPROVED EQUAL	42W CFL	UNV
	VE	WALL MOUNTED QUARTER SPHERE W/EMERG. BATT.	HUBBELL#QSP-42F8-WT-BL-PC-BOC OR APPROVED EQUAL	42W CFL	UNV
	W	DECORATIVE POOL TABLE FIXTURE	PRISMA: 073740-CBA-298 OR APPROVED EQUAL	42W CFL	UNV
	X	UNIVERSAL SURFACE MOUNT EDGE LIT LED EXIT SIGN	MULE LIGHTING: PVT-1/2-B-G-U-BA	GREEN LED	UNV
	X1	POLYCARBONATE LED GREEN EXIT	MULE LIGHTING: MXBGU	GREEN LED	UNV
	SB	BOLLARD LIGHTING	KIM LIGHTING: SL1-36L3KUV-BL	LED 3000K	120
	AA	DRIVEWAY MARKER LIGHT	FC LIGHTING: FCD161-120V-4K-SS	LED 120 LUMENS	120
	BB	STARFIELD CEILING AND WALL	VISUAL LIGHTING TECHNOLOGIES: PMMA GALAXY AS PER PLANS, COORDINATE ALL PARTS REQUIRED.	SUPPLIED WITH ILLUMINATOR	120

GENERAL NOTES
1. ELECTRICAL CONTRACTOR SHALL REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL DESIGN STANDARDS. THE ELECTRICAL SPECIFICATIONS ARE A BINDING PART OF THE CONSTRUCTION DOCUMENTS.

CODES AND STANDARDS
• FLORIDA BUILDING CODE 2010 • THE FLORIDA FIRE PREVENTION CODE 2010 EDITION • NFPA 70; NATIONAL ELECTRICAL CODE 2008 • FLORIDA BUILDING CODE - ENERGY CONSERVATION 2010

PANEL "XXXX" ← 1/2" HIGH LETTERING FOR PANELBOARD NAME

120/208V, 3Ø, 4W ← 1/4" HIGH LETTERING FOR REMAINING TEXT

FED FROM PANEL "XXXX"

TYPICAL 120/208V PANELBOARD

PANELBOARD NAMEPLATE DETAIL

NOT TO SCALE

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Nedim Mujbegovic, PE PE#74728

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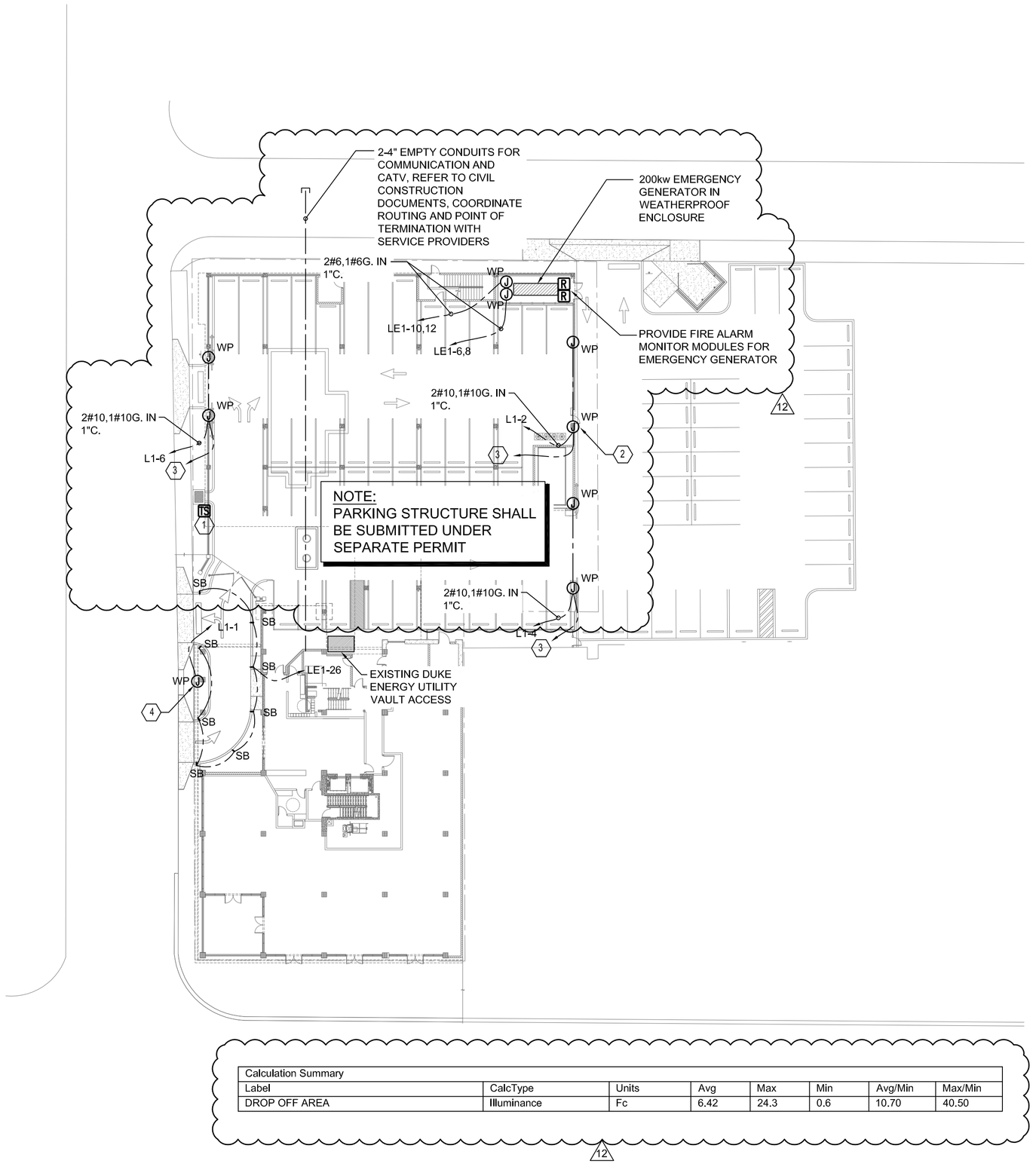
LEGEND SCHEDULES AND DETAILS

PROJECT NO.: 13270.99

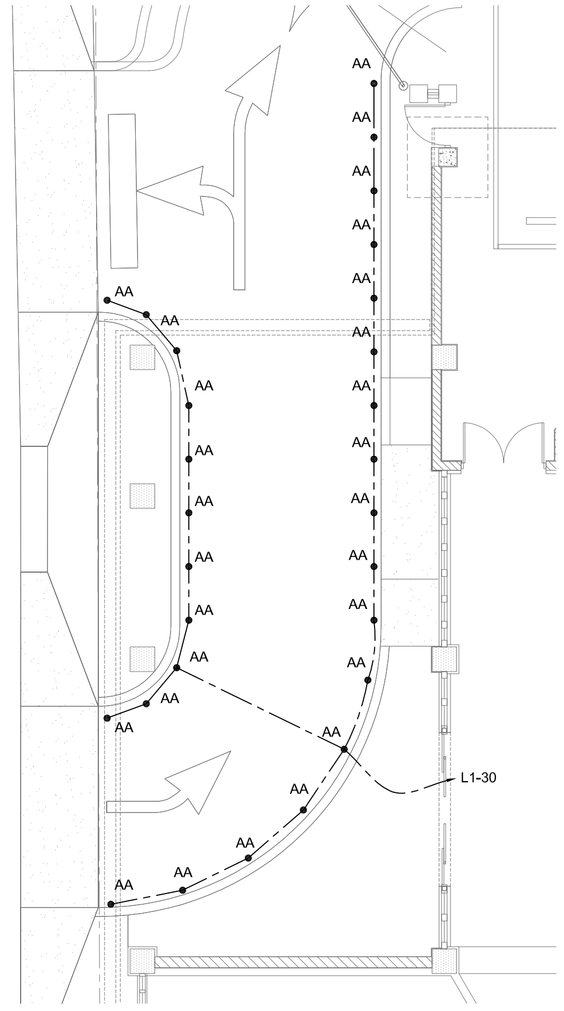
E000

E000 LEGEND SCHEDULES AND DETAILS

N.T.S.



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
DROP OFF AREA	Illuminance	Fc	6.42	24.3	0.6	10.70	40.50



DRIVE-UP MARKER LIGHT
1/8"=1'-0"

GENERAL NOTES:

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2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

KEY NOTES: ⬡

1. THE DOUBLE CHECK DETECTOR SHALL BE PROVIDED WITH ELECTRONIC SUPERVISION MONITORING WHEN REQUIRED BY THE FIRE DEPARTMENT.
2. COORDINATE ELECTRICAL REQUIREMENTS WITH SECURITY GATE VENDOR PRIOR TO CONSTRUCTION.
3. PROVIDE 1"C. WITH PULL-STRING FOR SECURITY LOW VOLTAGE WIRING.
4. PROVIDE CONNECTION TO EXTERIOR WATER FEATURE, VERIFY EXACT LOCATION AND REQUIREMENTS WITH VENDOR PRIOR TO CONSTRUCTION.

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PE#74728

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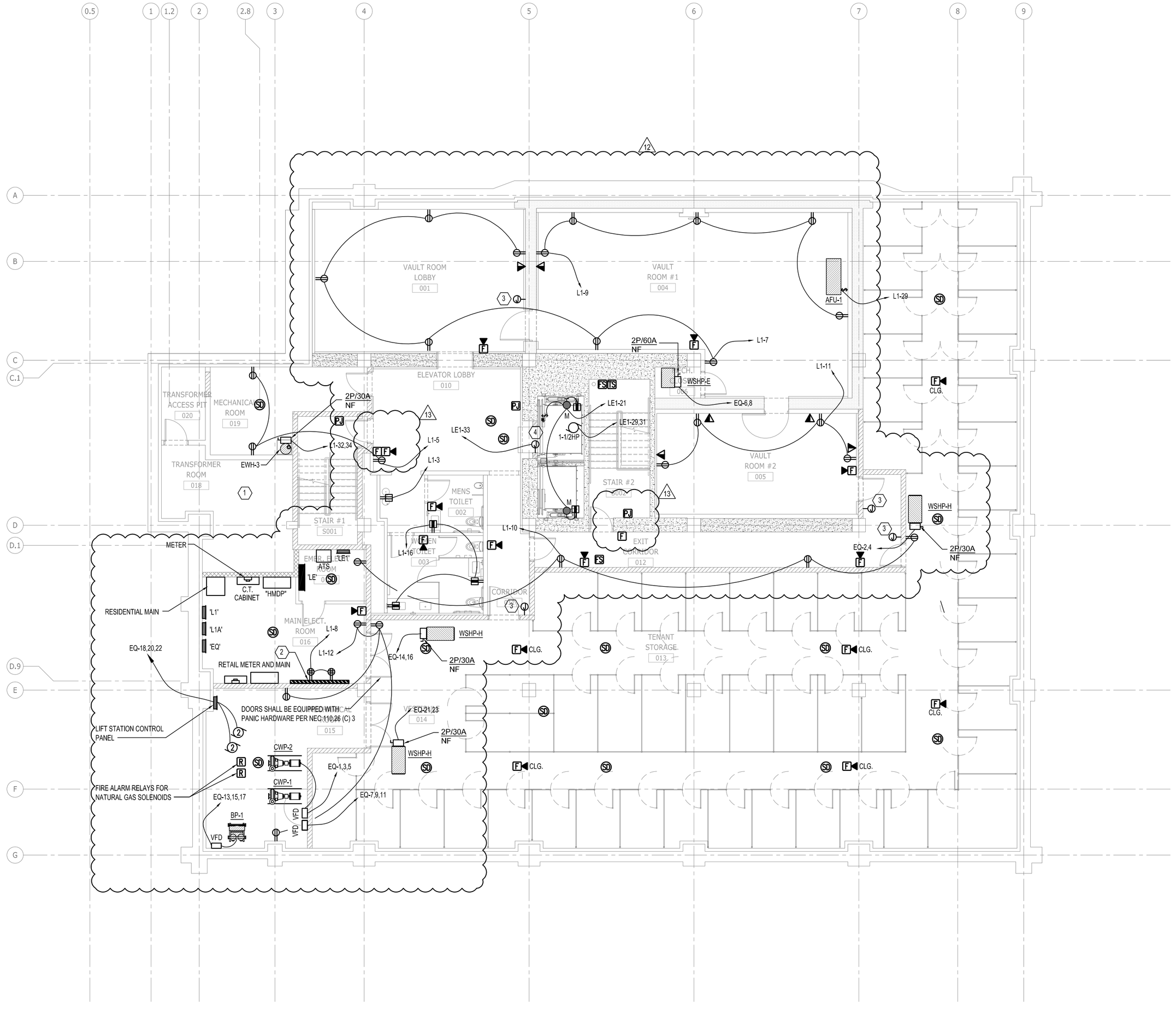
THE SKYVIEW CONDOMINIUMS
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CLEARWATER, FLORIDA 33755

SITE ELECTRICAL PLAN

PROJECT NO.: 13270.99

E100

E100 SITE ELECTRICAL PLAN
1" = 30'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

KEY NOTES:

1. COORDINATE FEEDER TERMINATION WITH TIM HELLER OF DUKE ENERGY AT 727-562-5740 PRIOR TO CONSTRUCTION.
2. VOICE/CATV TERMINAL BOARD COATED WITH FIRE RETARDANT PAINT ON 8'X8'X3/4" PLYWOOD SECTIONS.
3. PROVIDE JUNCTION BOX AND RACEWAY FOR CARD ACCESS, COORDINATE WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
4. PROVIDE 120V CONNECTION TO SMOKE CURTAIN, INTERLOCKED WITH SMOKE DETECTOR. (12)

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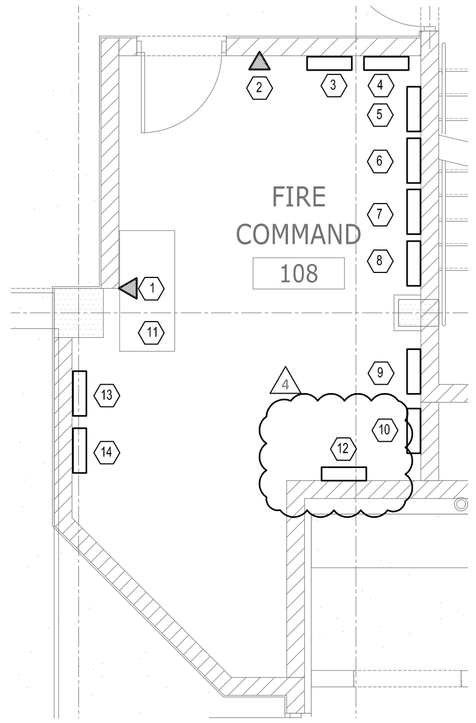
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BASEMENT FLOOR PLAN - POWER

PROJECT NO.: 13270.99

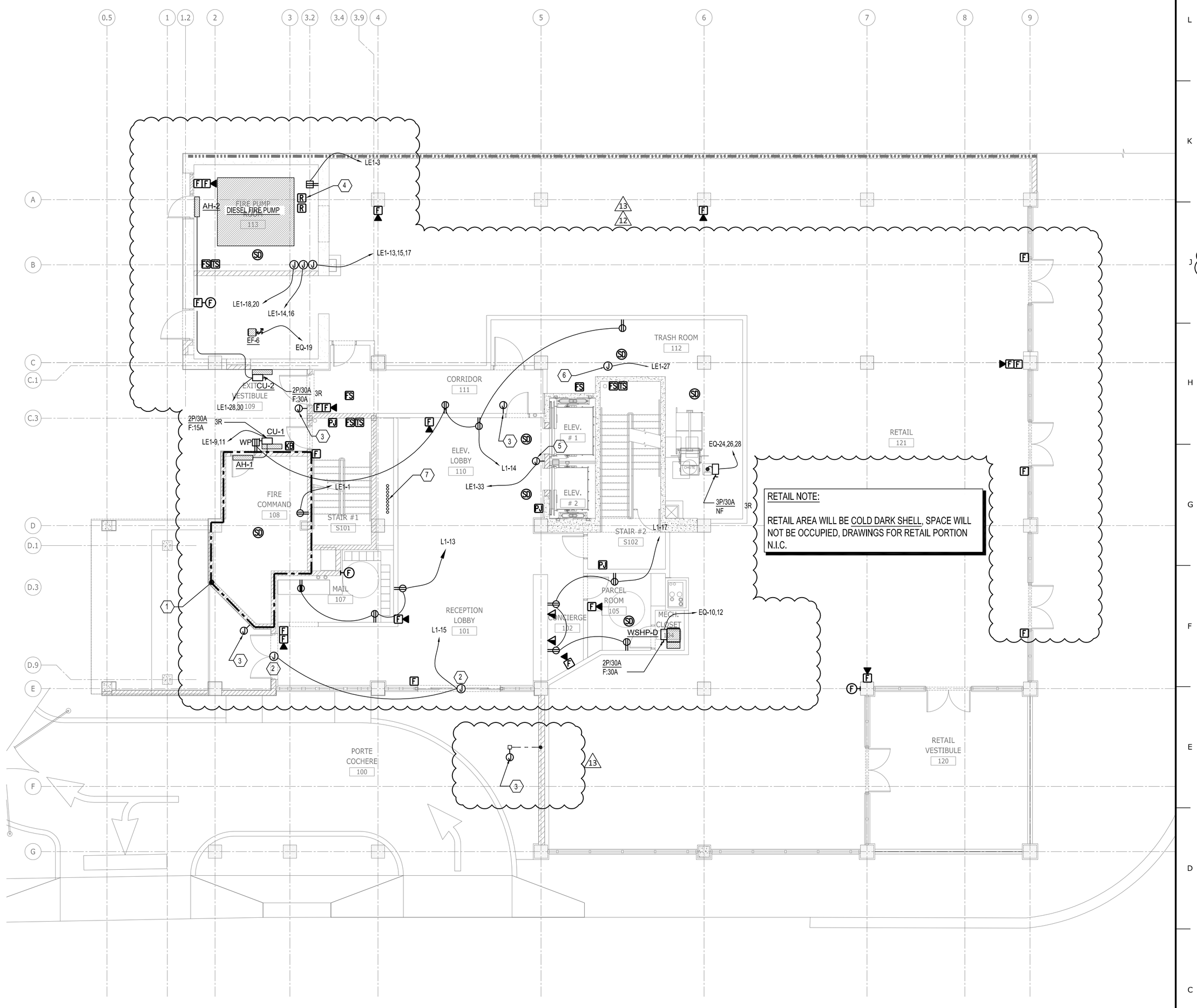
E101

E101 BASEMENT FLOOR PLAN - POWER
1/8" = 1'-0"



FIRE COMMAND RM 108

1. PUBLIC PHONE 911.1.5 - #10
2. DEDICATED PHONE LINES FOR FACP
3. FIRE ALARM CONTROL PANEL WITH ANNUNCIATOR 911.1.5 - #3
   FIRE DEPT. VOICE \ PAGING SYSTEM WITH MICROPHONE 911.1.5- #1& #15
   FIREMAN'S COMMUNICATION SYSTEM WITH HANDSET 911.5.1 - #2
4. GRAPHIC LED ANNUNCIATOR \ AIR DISTRIBUTION STATUS AND CONTROL 911.1.5 - #4, #5, #8, #12
   a. FANS, AIR HANDLERS, RTU'S, STAIR PRESSURIZATION
   b. GENERATOR REMOTE START
   c. FIRE PUMP REMOTE START
   d. STAIR DOOR LOCKS #911.1.5 - #7
   e. SYSTEM RESET
   f. TROUBLE SILENCE
5. TRANSPONDER (INX)
6. NAC POWER SUPPLY
7. ELEVATOR PANEL - 911.1.5 - #16 & #17
8. GENERATOR PANEL - 911.1.5 - #14
9. FIRE PUMP PANEL - 911.1.5 # 11
10. EMERGENCY POWER OFF - 911.1.5 # 9
    FOR GENERATOR AND BUILDING SERVICE
11. WORK TABLE - 911.1.5 # 13
12. TWO WAY COMMUNICATION SYSTEM - IBC 1007.8 - AREA OF RESCUE
13. DOCUMENT STORAGE \ PROGRAM BACKUP CABINET
14. RECORD DRAWINGS STORAGE CABINET



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

KEY NOTES: ⬡

1. REFER TO ENLARGED FIRE COMMAND ROOM THIS SHEET.
2. PROVIDE 120V CONNECTION TO AUTOMATIC DOORS.
3. PROVIDE JUNCTION BOX AND RACEWAY FOR CARD ACCESS, COORDINATE WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
4. PROVIDE FIRE ALARM MONITOR MODULES FOR FIRE PUMP.
5. PROVIDE 120V CONNECTION TO SMOKE CURTAIN, INTERLOCKED WITH SMOKE DETECTOR.
6. PROVIDE 120V CONNECTION TO FIRE/SMOKE DAMPERS, COORDINATE LOCATION WITH DIVISION 23. (12)
7. PROPOSED LOCATION OF PANEL FEEDERS SERVING UPPER FLOORS.

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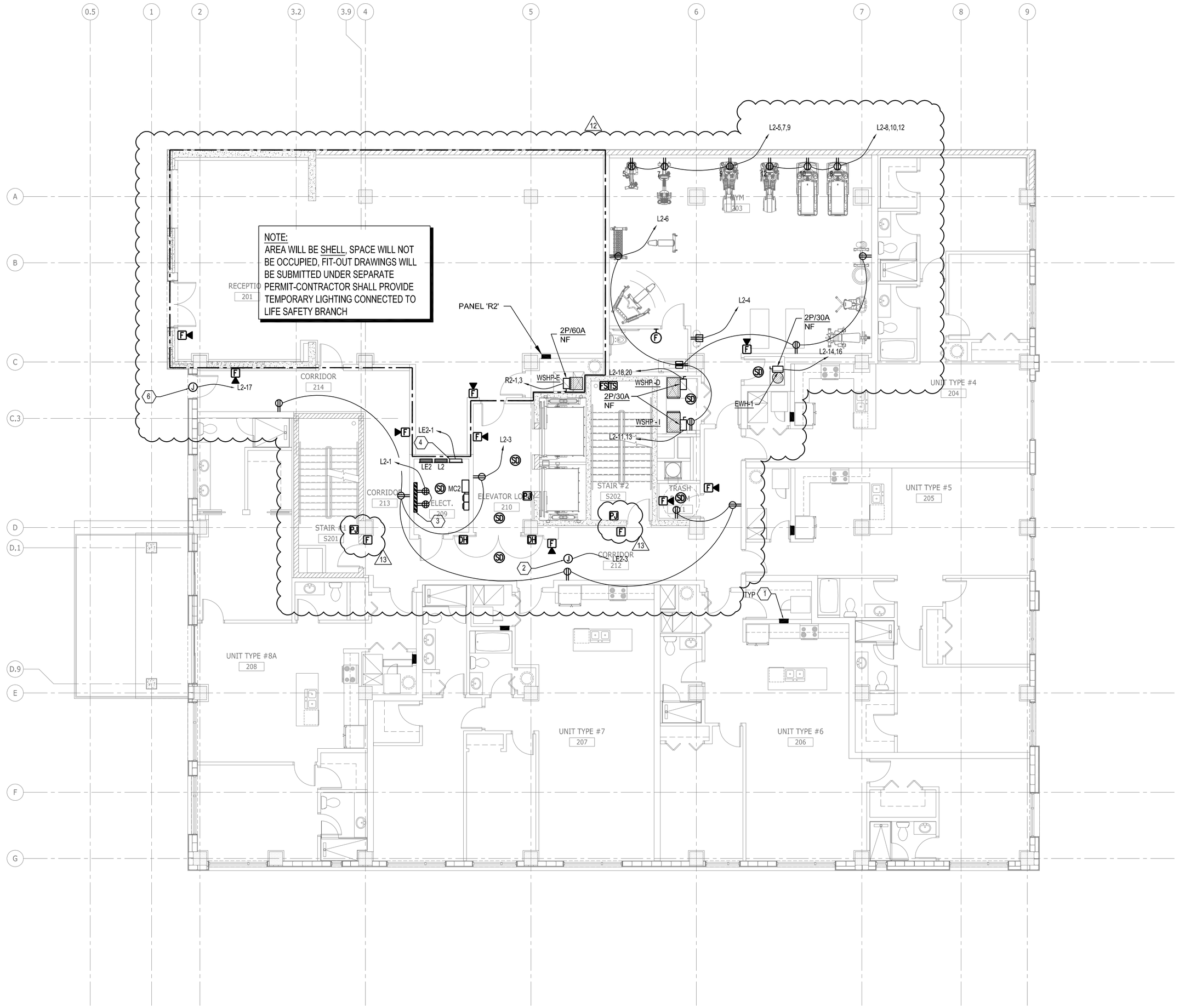
FIRST FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E102

E102 FIRST FLOOR PLAN - POWER

1/8" = 1'-0"



GENERAL NOTES:

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5. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

KEY NOTES:

1. UNIT PANEL LOCATION, PROVIDE 3'-0" WORKING CLEARANCE IN FRONT OF PANEL, COORDINATE FINAL LOCATION WITH AHJ PRIOR TO CONSTRUCTION.
2. PROVIDE 120V CONNECTION TO FIRE/SMOKE DAMPERS, COORDINATE LOCATION WITH DIVISION 23.
3. VOICE/CATV TERMINAL BOARD COATED WITH FIRE RETARDANT PAINT ON 4'X8'X3/4" PLYWOOD SECTIONS.
4. PROPOSED LOCATION FOR FIRE ALARM NAC PANEL, COORDINATE WITH FIRE ALARM CONTRACTOR.
5. PROVIDE JUNCTION BOX AND RACEWAY FOR CARD ACCESS, COORDINATE WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
6. PROVIDE 120V CONNECTION TO AUTOMATIC DOORS.

12

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-3.1-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.

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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Nedim Mujbegovic, PE PE#74728

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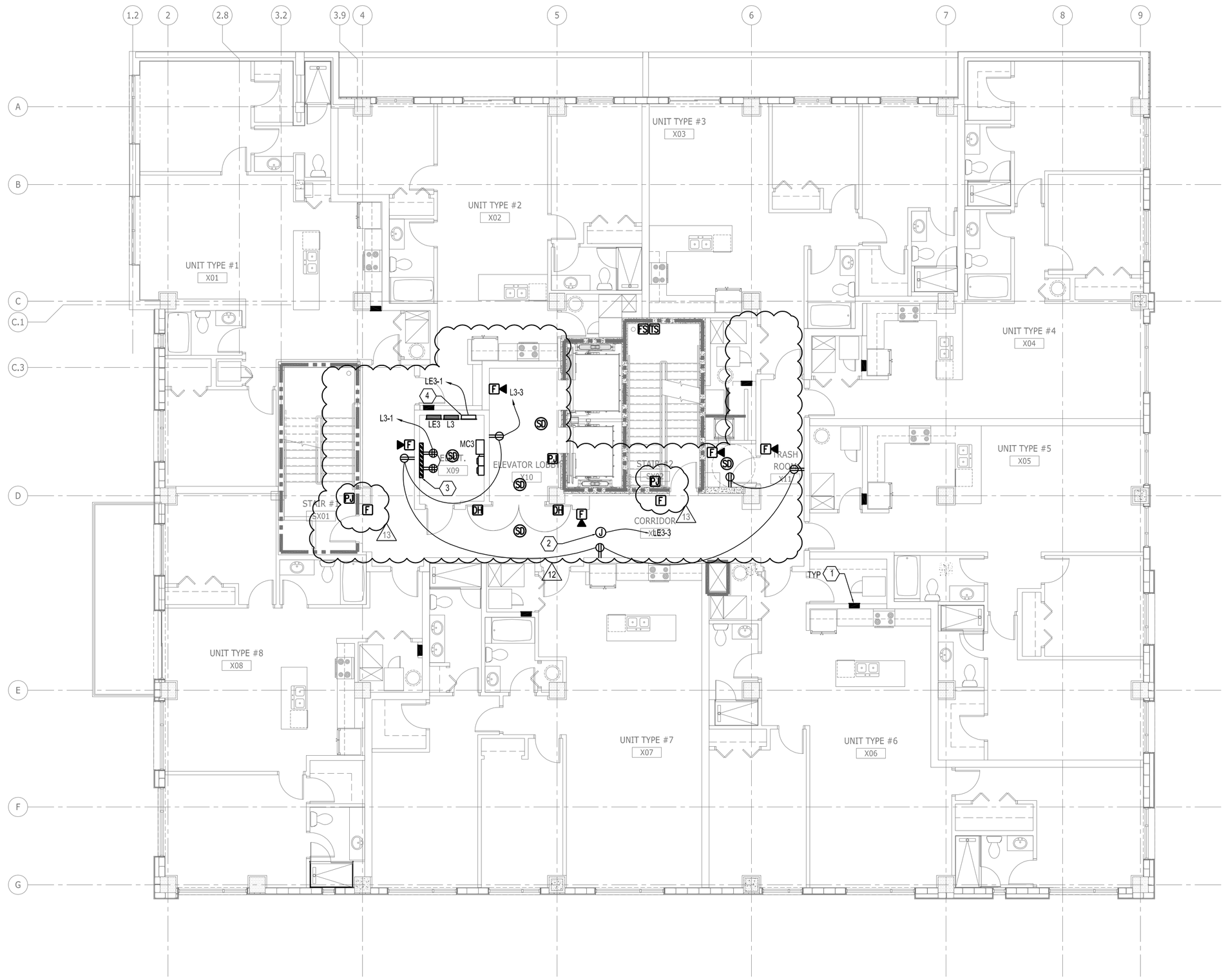
400 CLEVELAND, LLC.
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SECOND FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E103

E103 SECOND FLOOR PLAN - POWER
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

KEY NOTES:

1. UNIT PANEL LOCATION, PROVIDE 3'-0" WORKING CLEARANCE IN FRONT OF PANEL, COORDINATE FINAL LOCATION WITH AHJ PRIOR TO CONSTRUCTION.
2. PROVIDE 120V CONNECTION TO FIRE/SMOKE DAMPERS, COORDINATE LOCATION WITH DIVISION 23.
3. VOICE/CATV TERMINAL BOARD COATED WITH FIRE RETARDANT PAINT ON 4'X8'X3/4" PLYWOOD SECTIONS.
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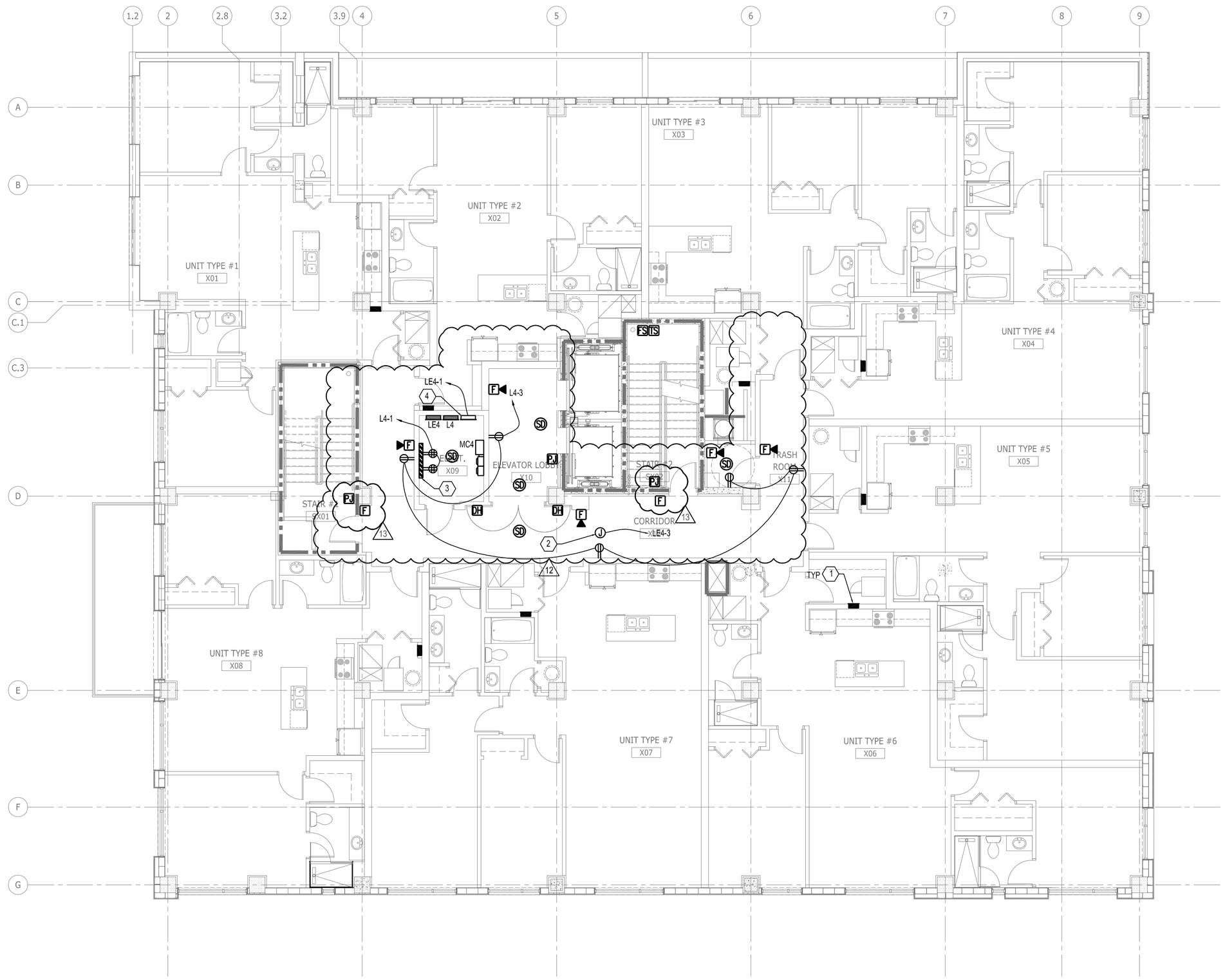
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400 CLEVELAND, LLC.
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THIRD FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E104

E104 | **THIRD FLOOR PLAN - POWER**
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
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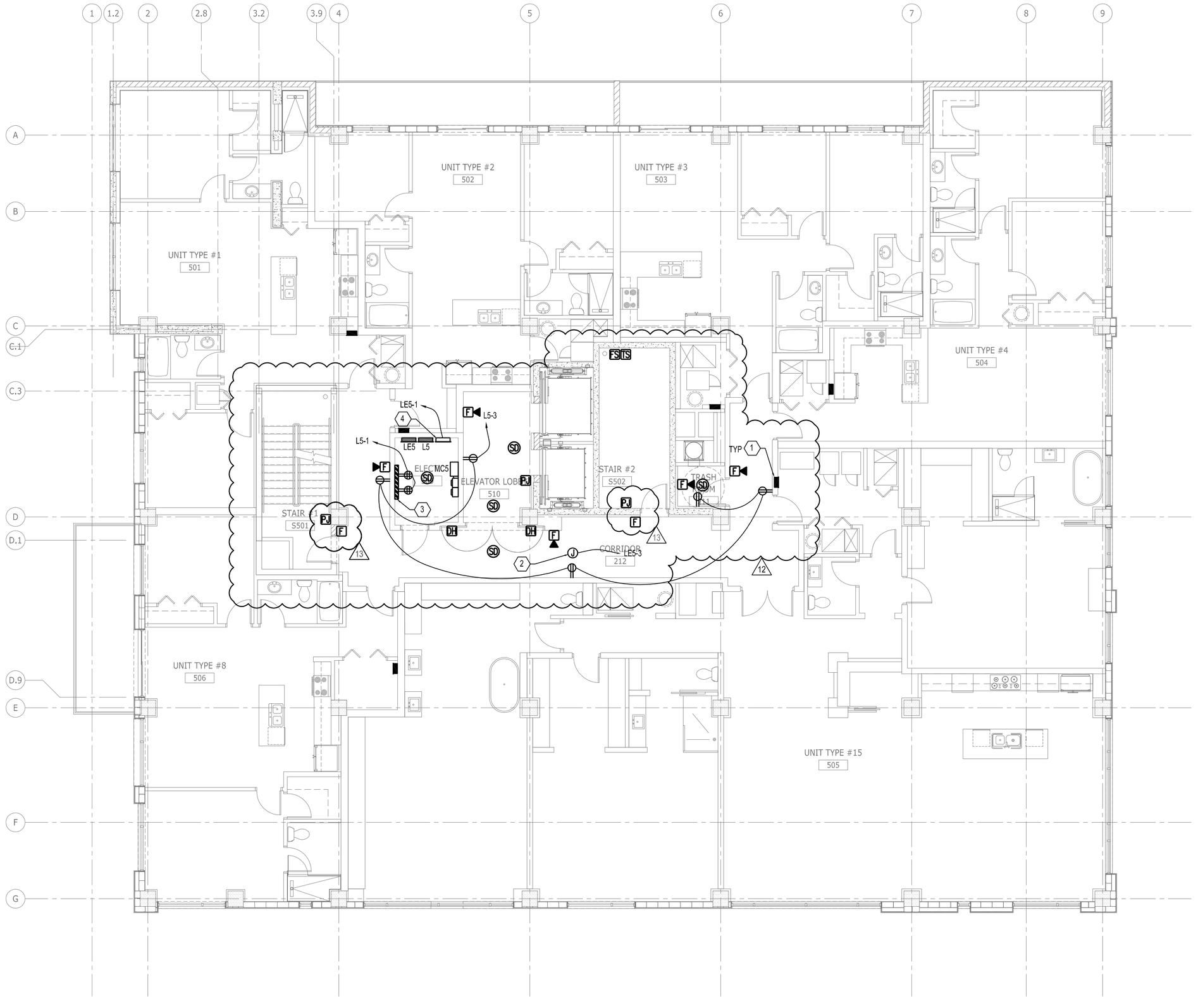
THE SKYVIEW CONDOMINIUMS
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CLEARWATER, FLORIDA 33755

FOURTH FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E105

E105 FOURTH FLOOR PLAN - POWER
1/8" = 1'-0"



E106 FIFTH FLOOR PLAN - POWER

1/8" = 1'-0"

GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
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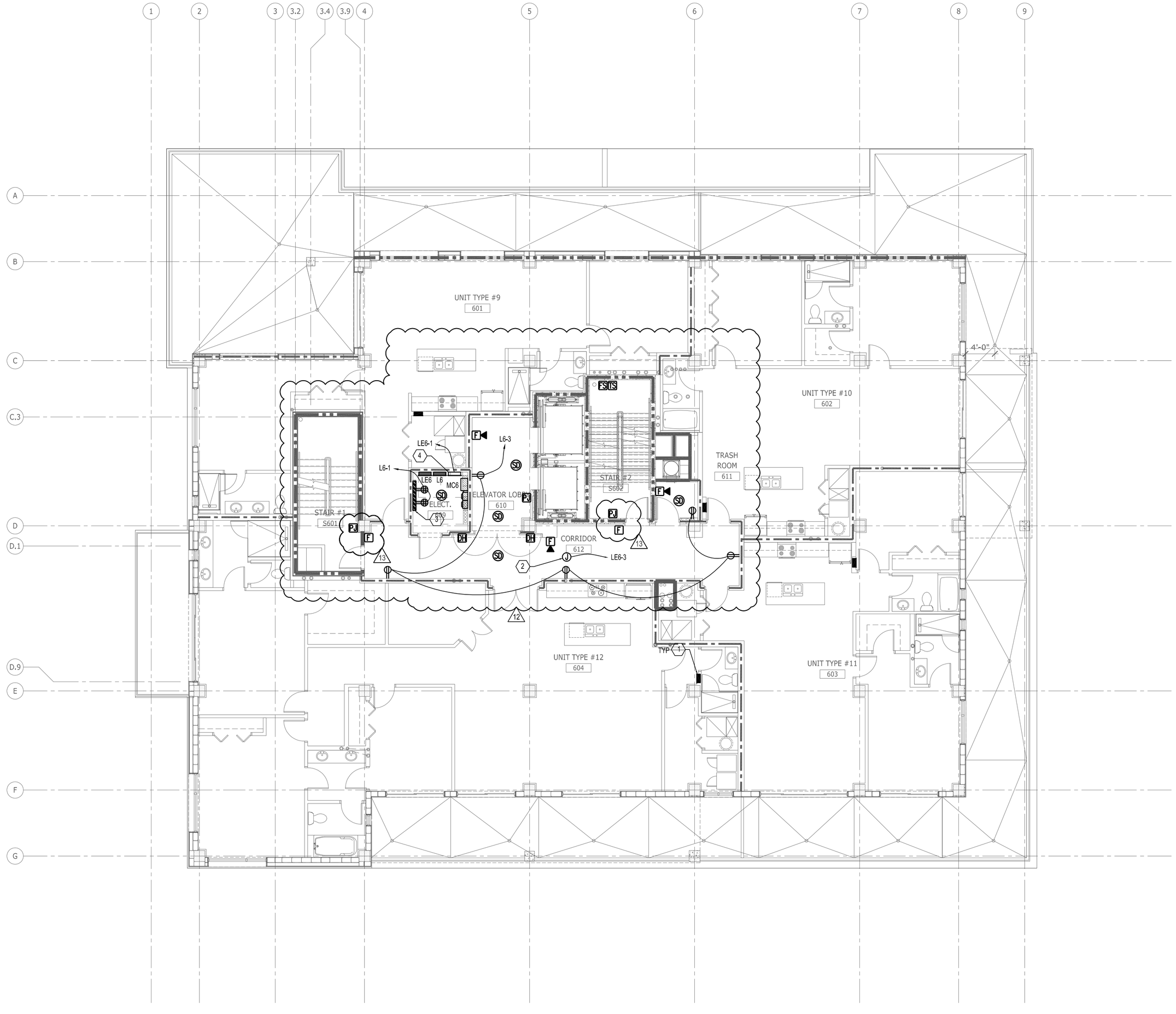
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THE SKYVIEW CONDOMINIUMS
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CLEARWATER, FLORIDA 33755

FIFTH FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E106



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
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3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
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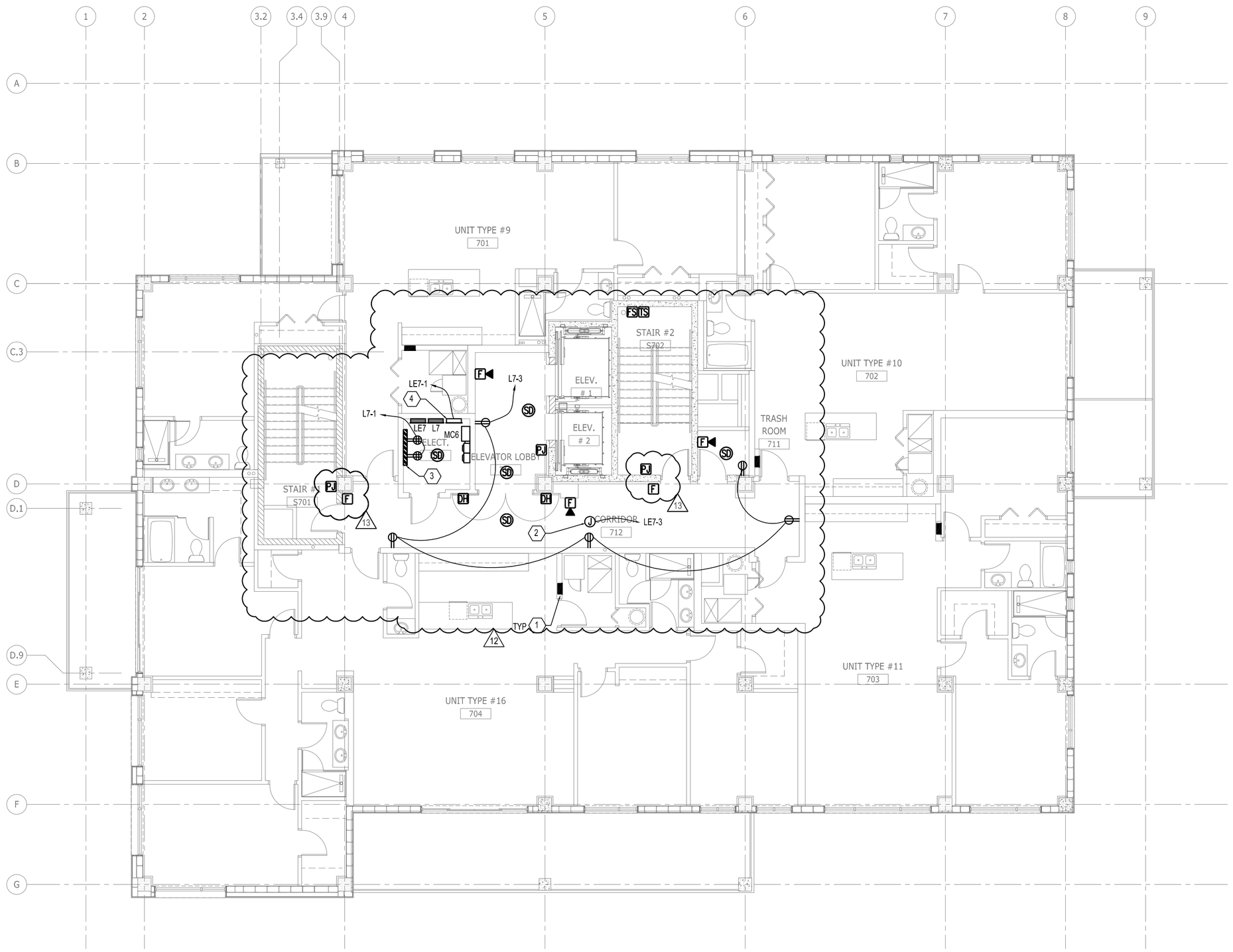
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SIXTH FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E107

E107 SIXTH FLOOR PLAN - POWER
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
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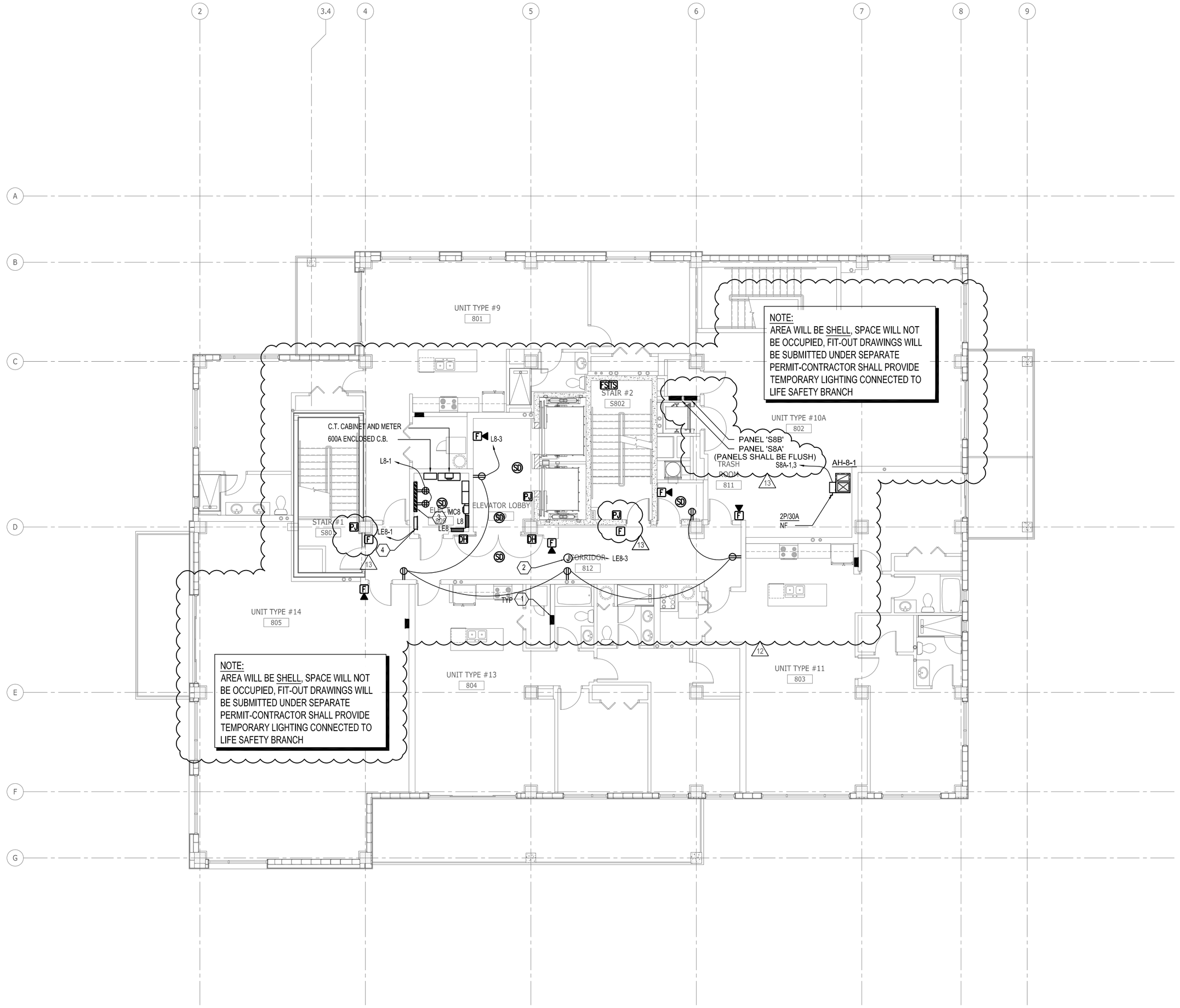
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SEVENTH FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E108

E108 SEVENTH FLOOR PLAN - POWER
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
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4. PROPOSED LOCATION FOR FIRE ALARM NAC PANEL, COORDINATE WITH FIRE ALARM CONTRACTOR.
5. PROVIDE JUNCTION BOX AND RACEWAY FOR CARD ACCESS, COORDINATE WITH SECURITY VENDOR PRIOR TO ROUGH-IN.

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-31-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.

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3	04/06/2015	PERMIT REVIEW COMMENTS		
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1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Nedim Mujbegovic, PE
PE#74728

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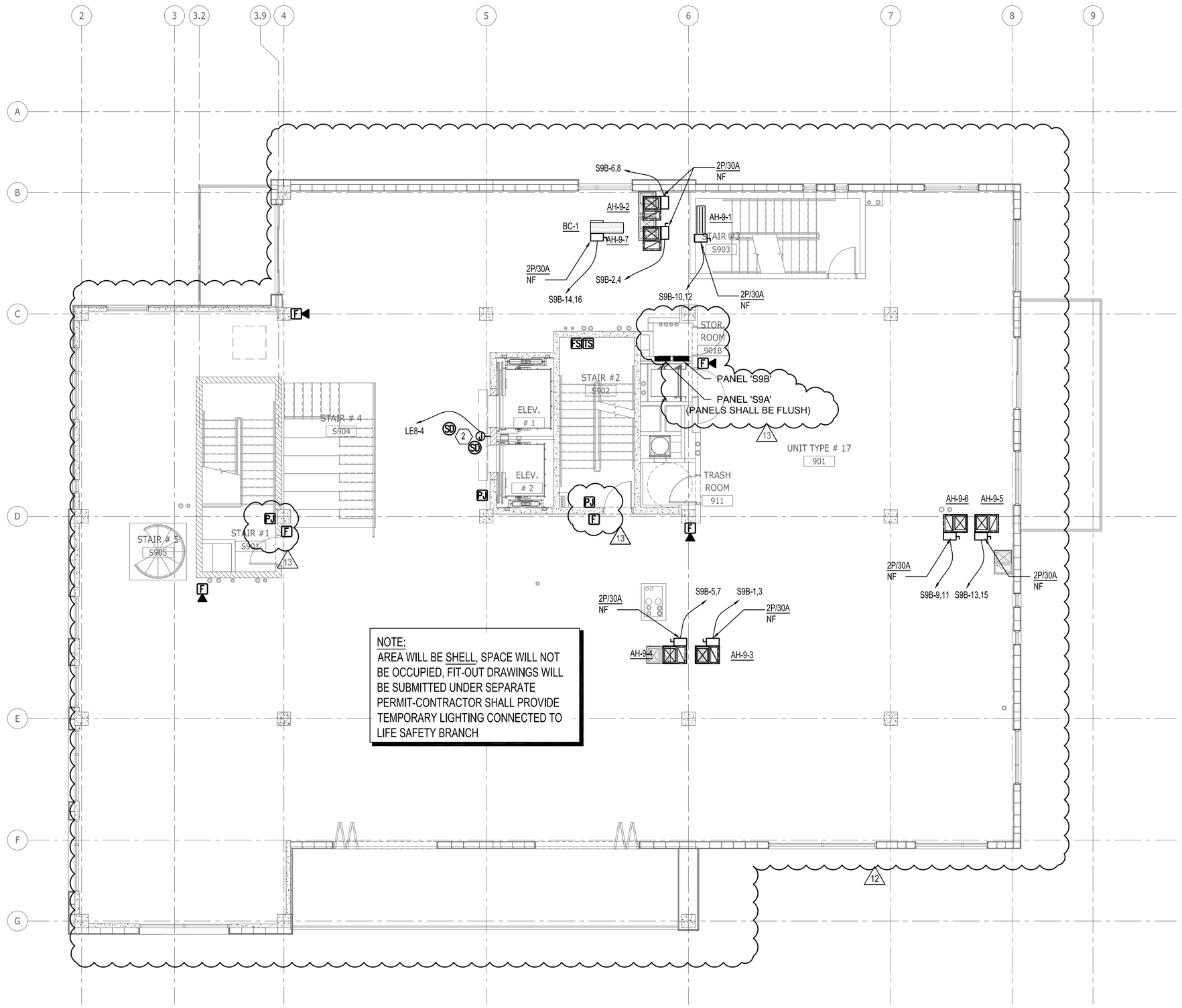
THE SKYVIEW CONDOMINIUMS
400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

EIGHTH FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E109

E109 EIGHTH FLOOR PLAN - POWER
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

KEY NOTES:

1. PROVIDE JUNCTION BOX AND RACEWAY FOR CARD ACCESS, COORDINATE WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
2. PROVIDE 120V CONNECTION TO SMOKE CURTAIN, INTERLOCKED WITH SMOKE DETECTOR.

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-31-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.

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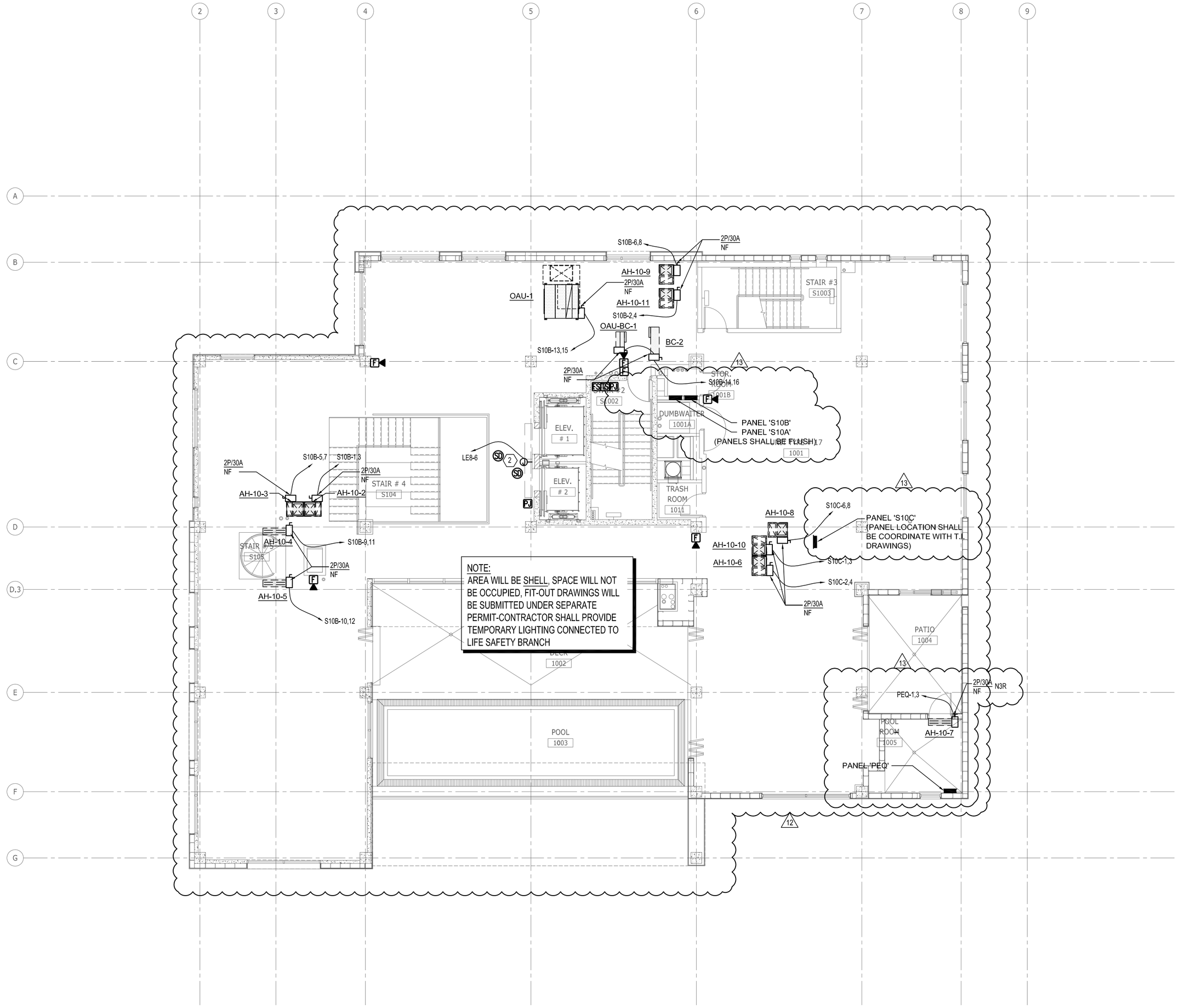
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CLEARWATER, FLORIDA 33755

NINTH FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E110

E110 NINTH FLOOR PLAN - POWER
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. 1 · CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
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KEY NOTES:

1. PROVIDE JUNCTION BOX AND RACEWAY FOR CARD ACCESS, COORDINATE WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
2. PROVIDE 120V CONNECTION TO SMOKE CURTAIN, INTERLOCKED WITH SMOKE DETECTOR.

12

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-31-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.

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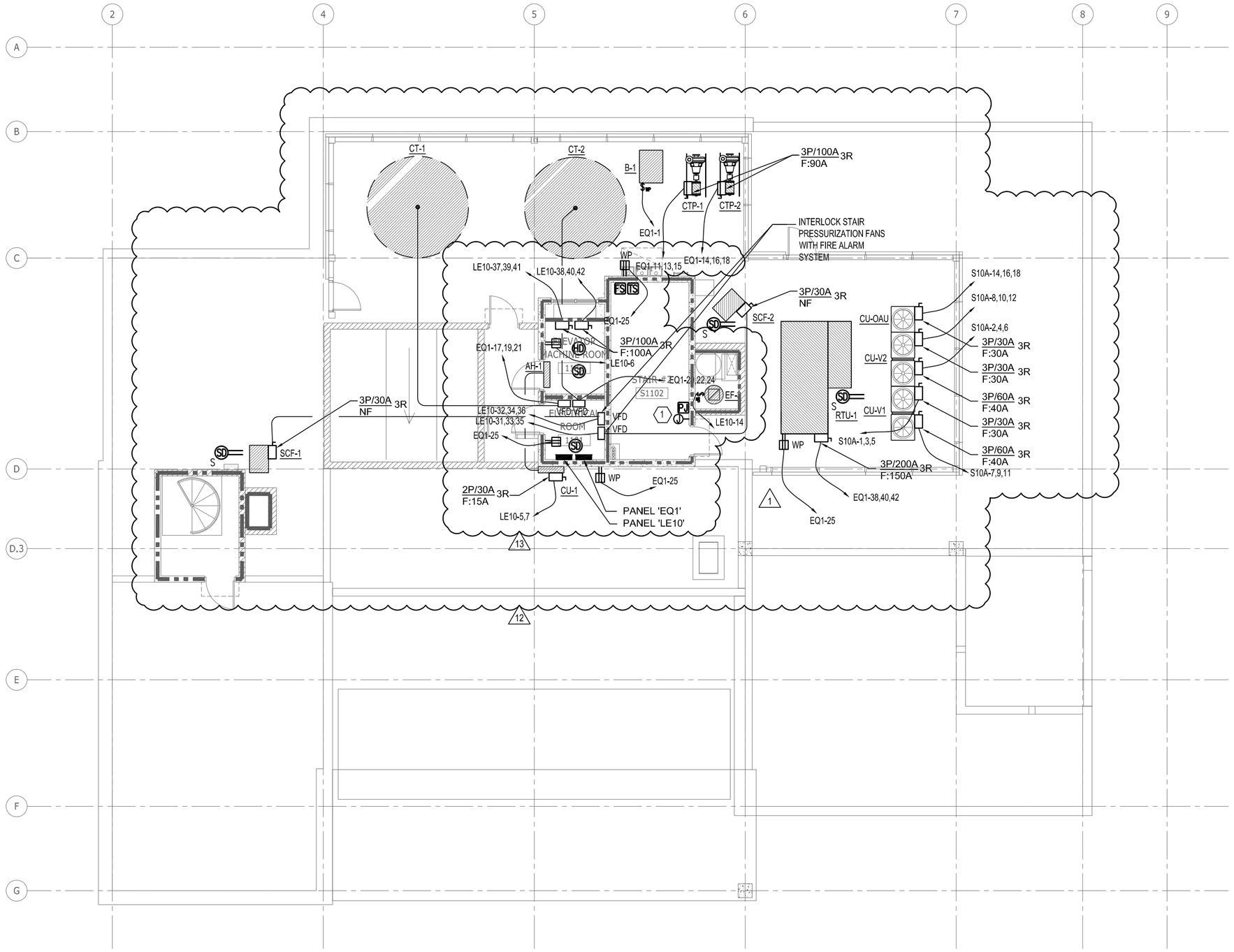
400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

TENTH FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E111

E111 TENTH FLOOR PLAN - POWER
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
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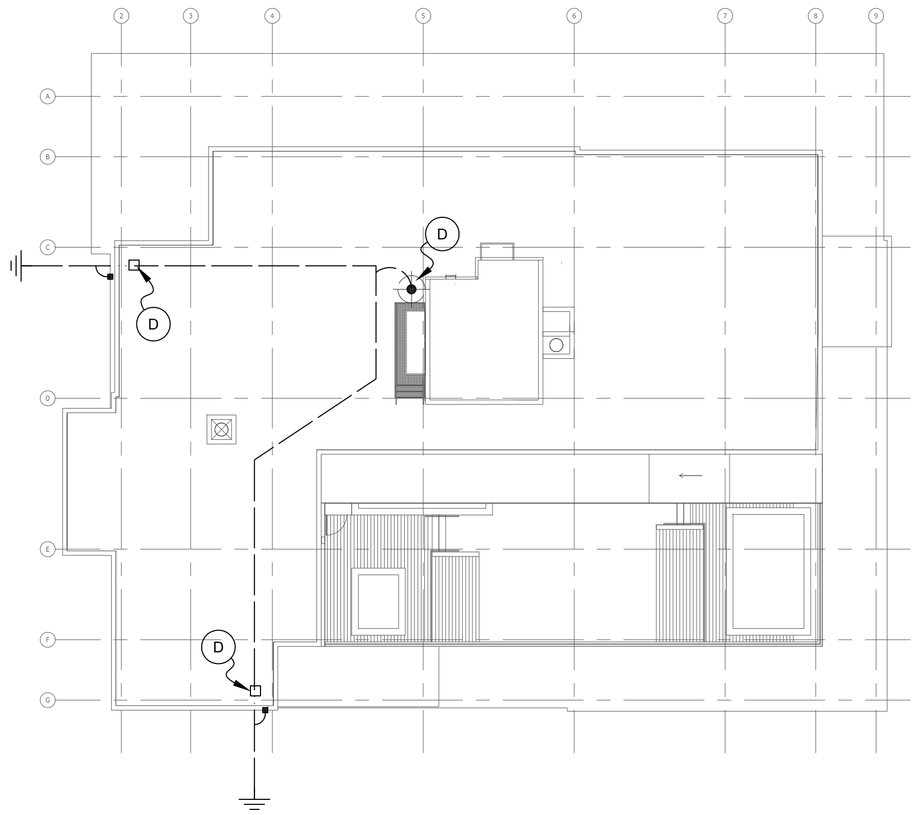
THE SKYVIEW CONDOMINIUMS
400 CLEVELAND, LLC.
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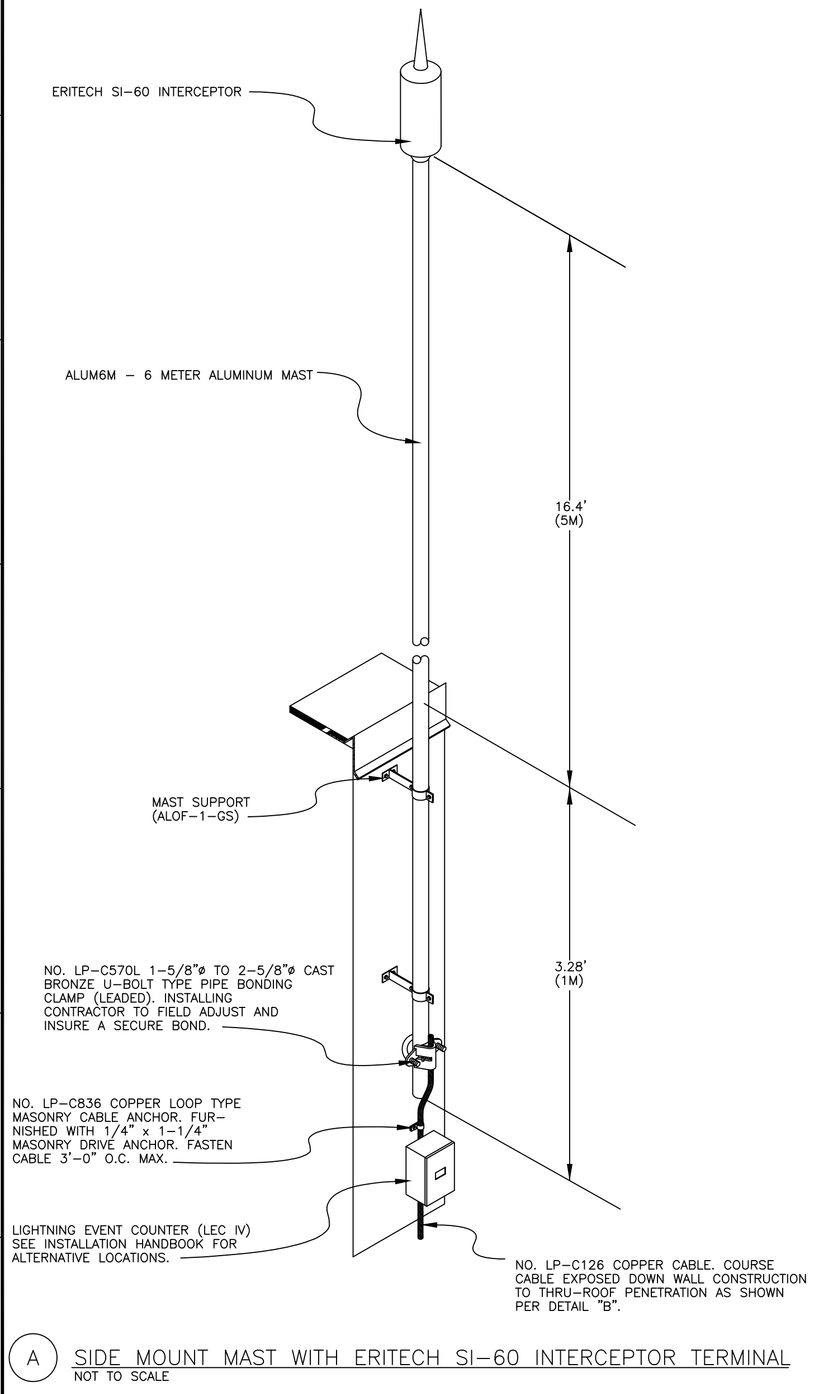
ROOF FLOOR PLAN - POWER

PROJECT NO.: 13270.99

E112

E112 | **ROOF FLOOR PLAN - POWER**
1/8" = 1'-0"

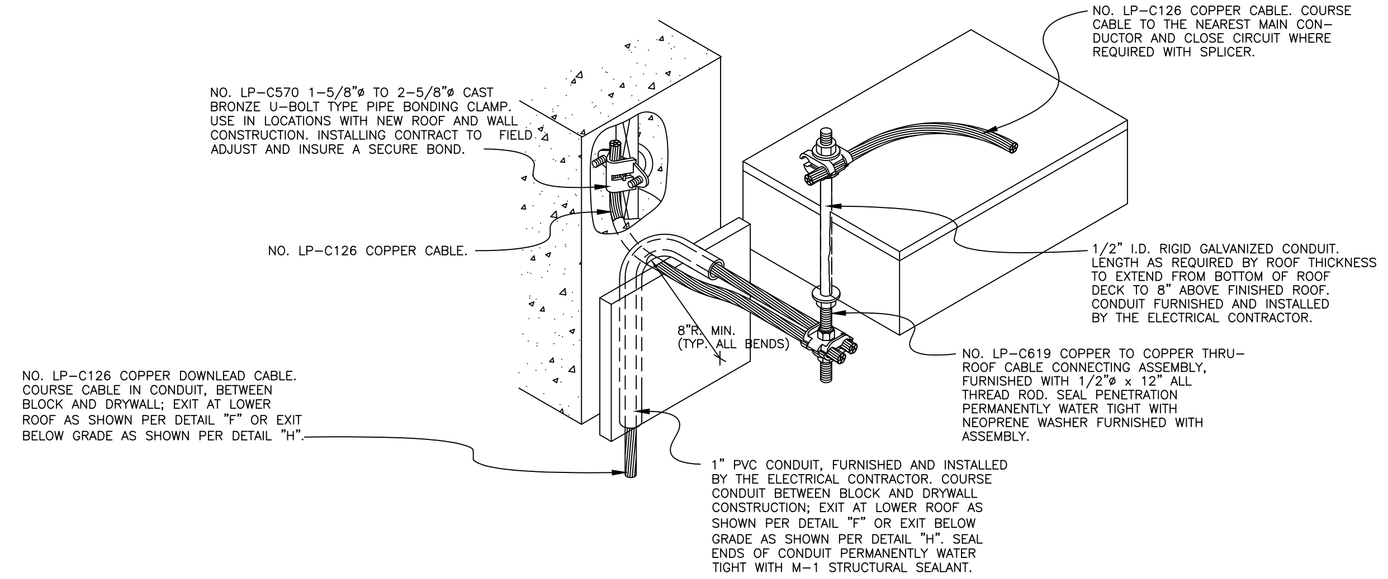




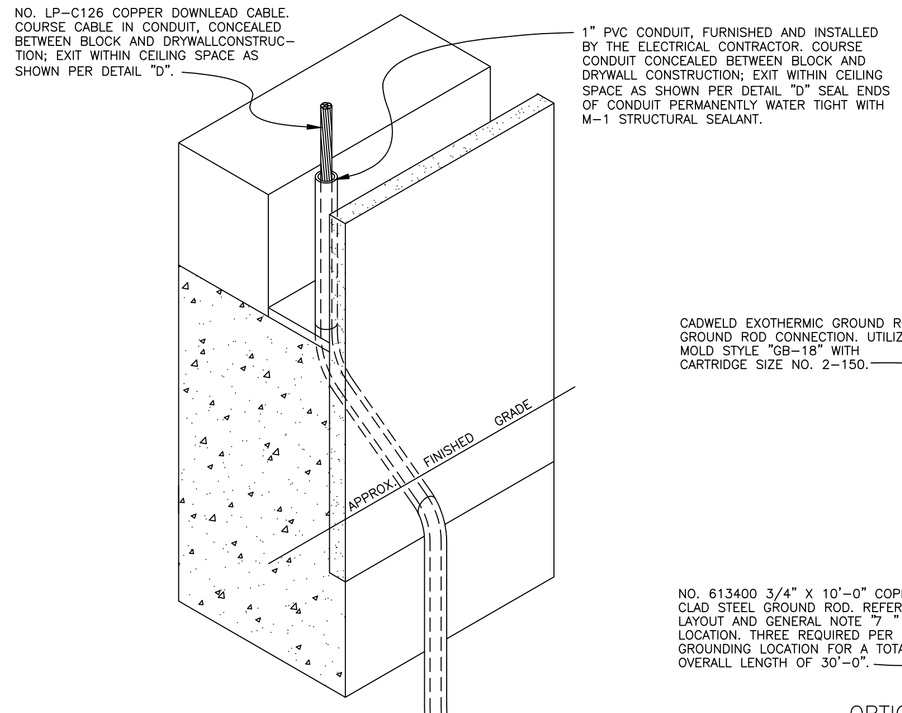
A SIDE MOUNT MAST WITH ERITECH SI-60 INTERCEPTOR TERMINAL
NOT TO SCALE

NOTE: BONDED LIGHTNING PROTECTION TO FURNISH REBAR BONDING CLAMP AND WIRE AND SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.

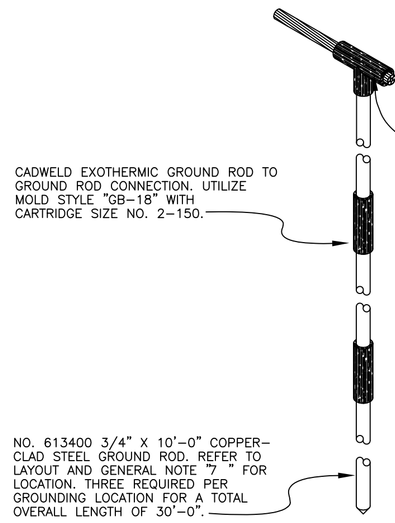
NOTE: ROOFING CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE BOOT AND/OR PITCH PAN FOR A PERMANENTLY WATER TIGHT SEAL.

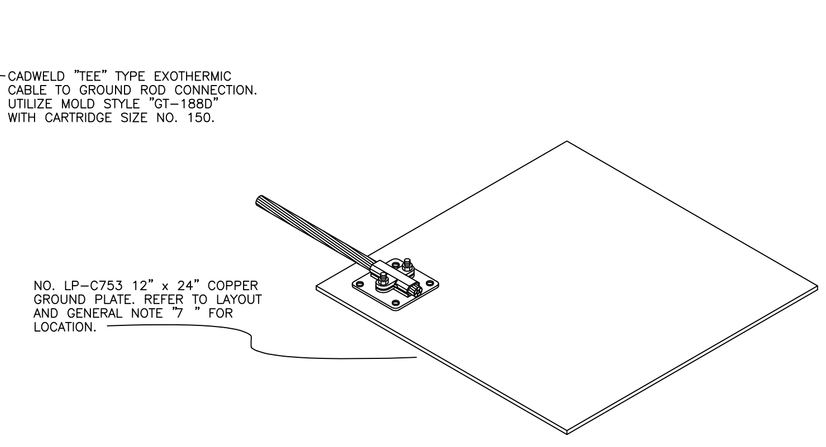


B THRU-ROOF CABLE CONN.
NOT TO SCALE

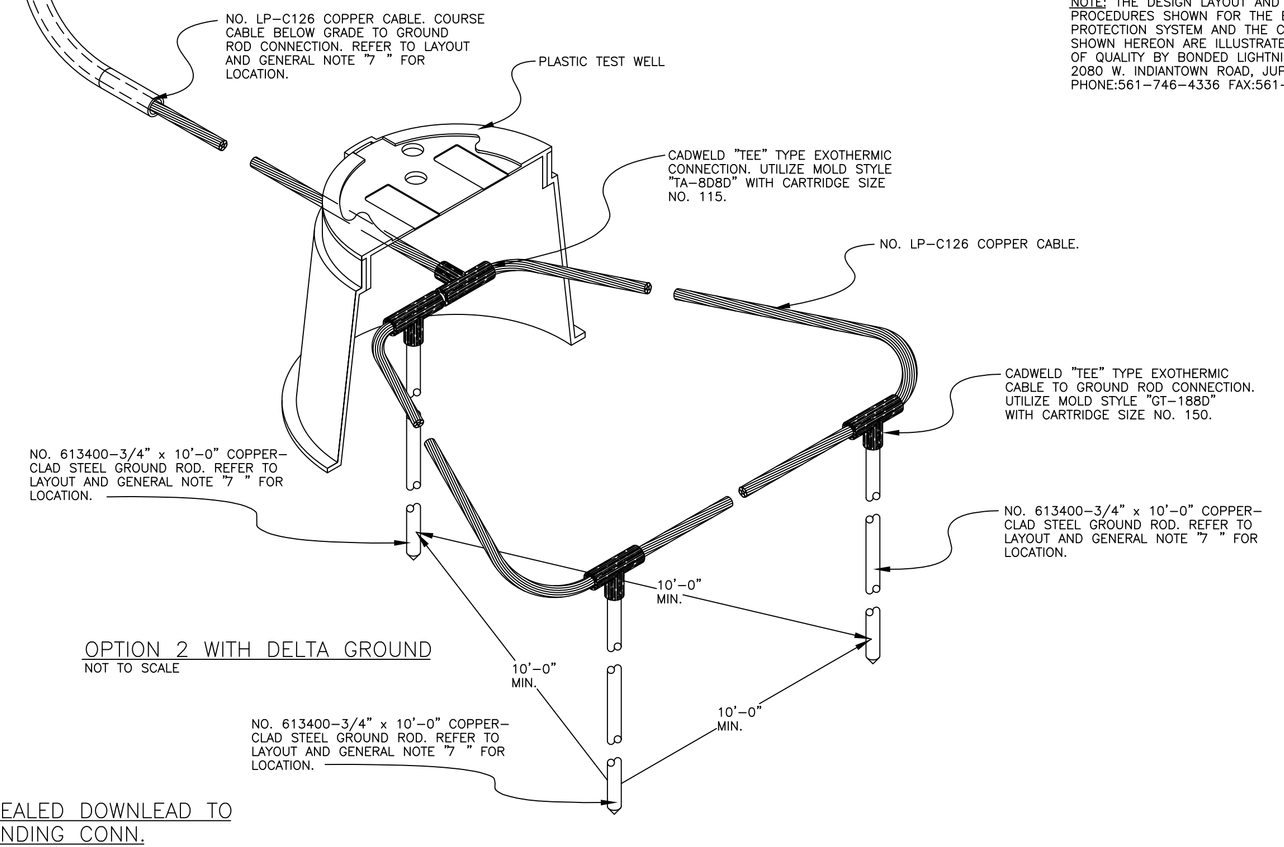


OPTION 3 WITH SINGLE GROUND
NOT TO SCALE





OPTION 2 WITH GROUND PLATE
NOT TO SCALE



OPTION 2 WITH DELTA GROUND
NOT TO SCALE

NOTE: THE DESIGN LAYOUT AND INSTALLATION PROCEDURES SHOWN FOR THE BUILDING LIGHTNING PROTECTION SYSTEM AND THE COMPONENT PARTS SHOWN HEREON ARE ILLUSTRATED AS A STANDARD OF QUALITY BY BONDED LIGHTNING PROTECTION
2080 W. INDIANTOWN ROAD, JUPITER, FLORIDA 33458.
PHONE:561-746-4336 FAX:561-747-8233

C CONCEALED DOWNLEAD TO GROUNDING CONN.
NOT TO SCALE

E113 | **ROOF FLOOR PLAN - LIGHTNING PROTECTION**
1/16" = 1'-0"

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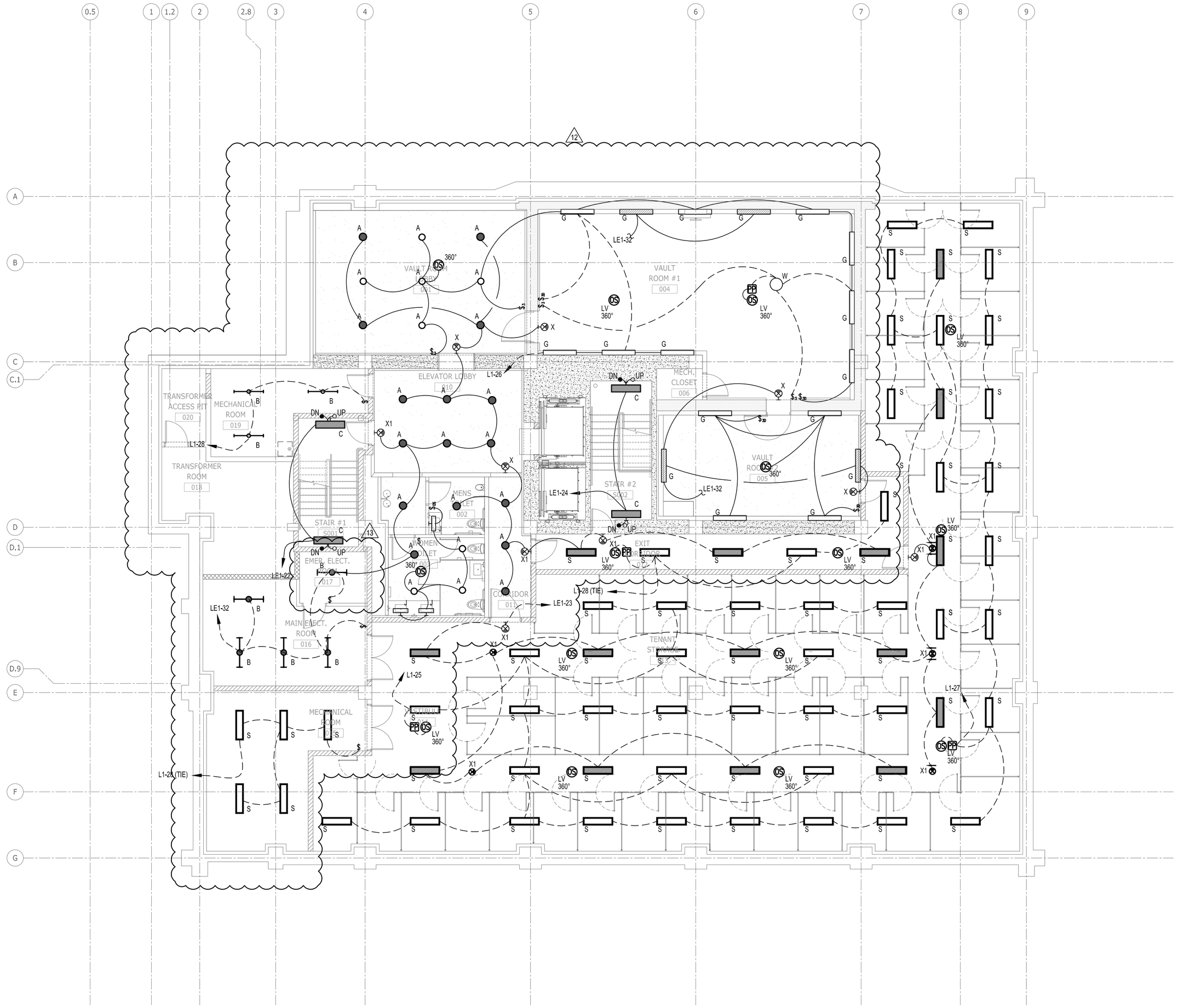
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400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

ROOF FLOOR PLAN - LIGHTNING PROTECTION

PROJECT NO.: 13270.99

E113



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. COORDINATE LIGHT FIXTURE PLACEMENT AND LAYOUT WITH ARCHITECTURAL PLANS.

LIGHTING CONTROL LEGEND

- $ — PASSIVE INFRARED OCCUPANCY WALL SWITCH WATT STOPPER CAT. #WS-250.
- OS LV 360° — DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER CAT. #DT-305.
- OS 360° — DUAL TECHNOLOGY LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER CAT. #DT-355.
- P — POWER PACK, WATT STOPPER CAT. #BZ-50.

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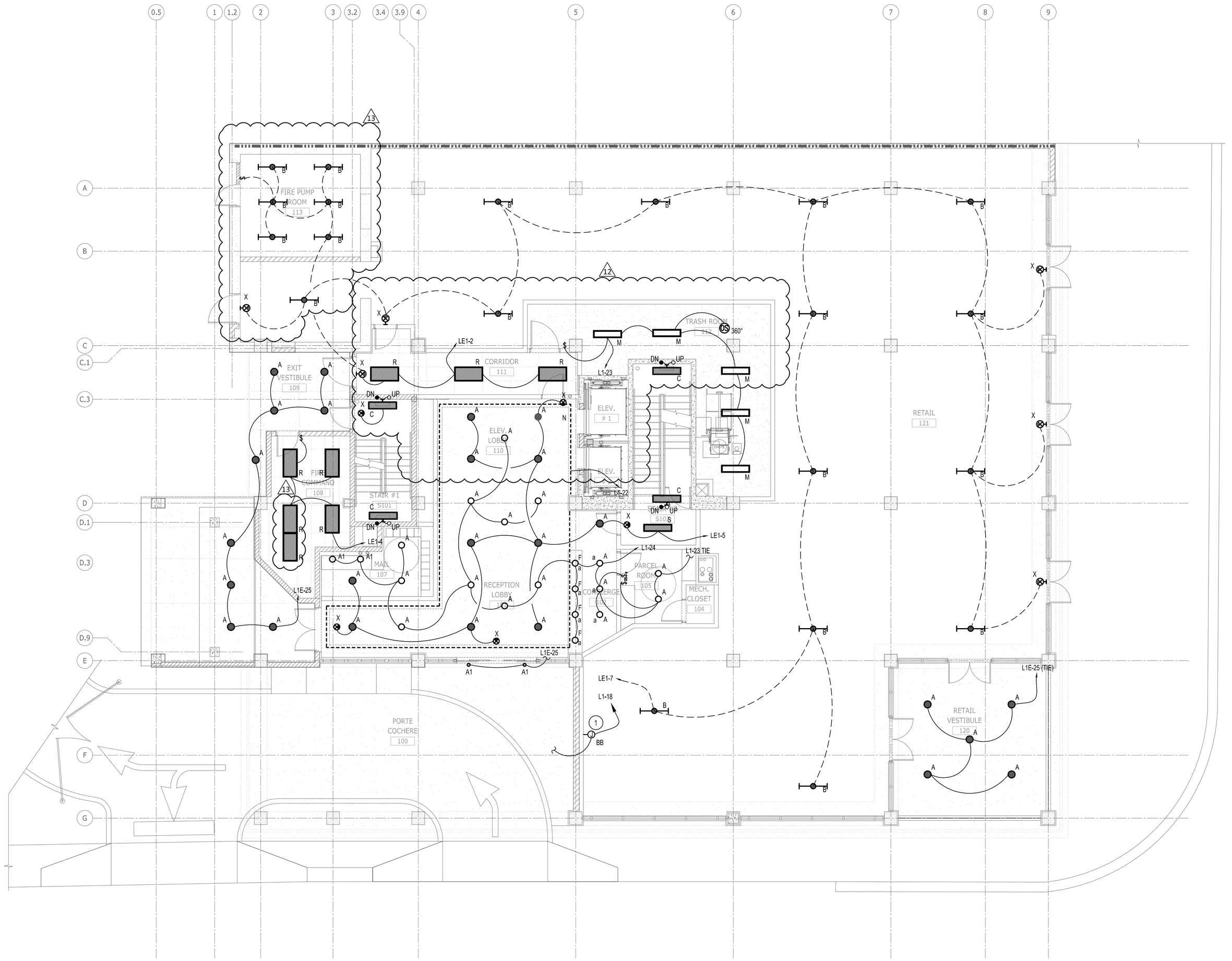
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CLEARWATER, FLORIDA 33755

BASEMENT FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E201

E201 BASEMENT FLOOR PLAN - LIGHTING
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
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5. COORDINATE LIGHT FIXTURE PLACEMENT AND LAYOUT WITH ARCHITECTURAL PLANS.

KEY NOTES: (#)

1. PROVIDE 120V CONNECTION TO STARFIELD CEILING AND WALL FIBEROPTICS. COORDINATE ALL PARTS REQUIRED WITH VENDOR.

LIGHTING CONTROL LEGEND

$_{PS}$ PASSIVE INFRARED OCCUPANCY WALL SWITCH WATT STOPPER CAT. #WS-250.

(DT) 360° DUAL TECHNOLOGY LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER CAT. #DT-355.

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Nedim Mujbegovic, PE PE#74728

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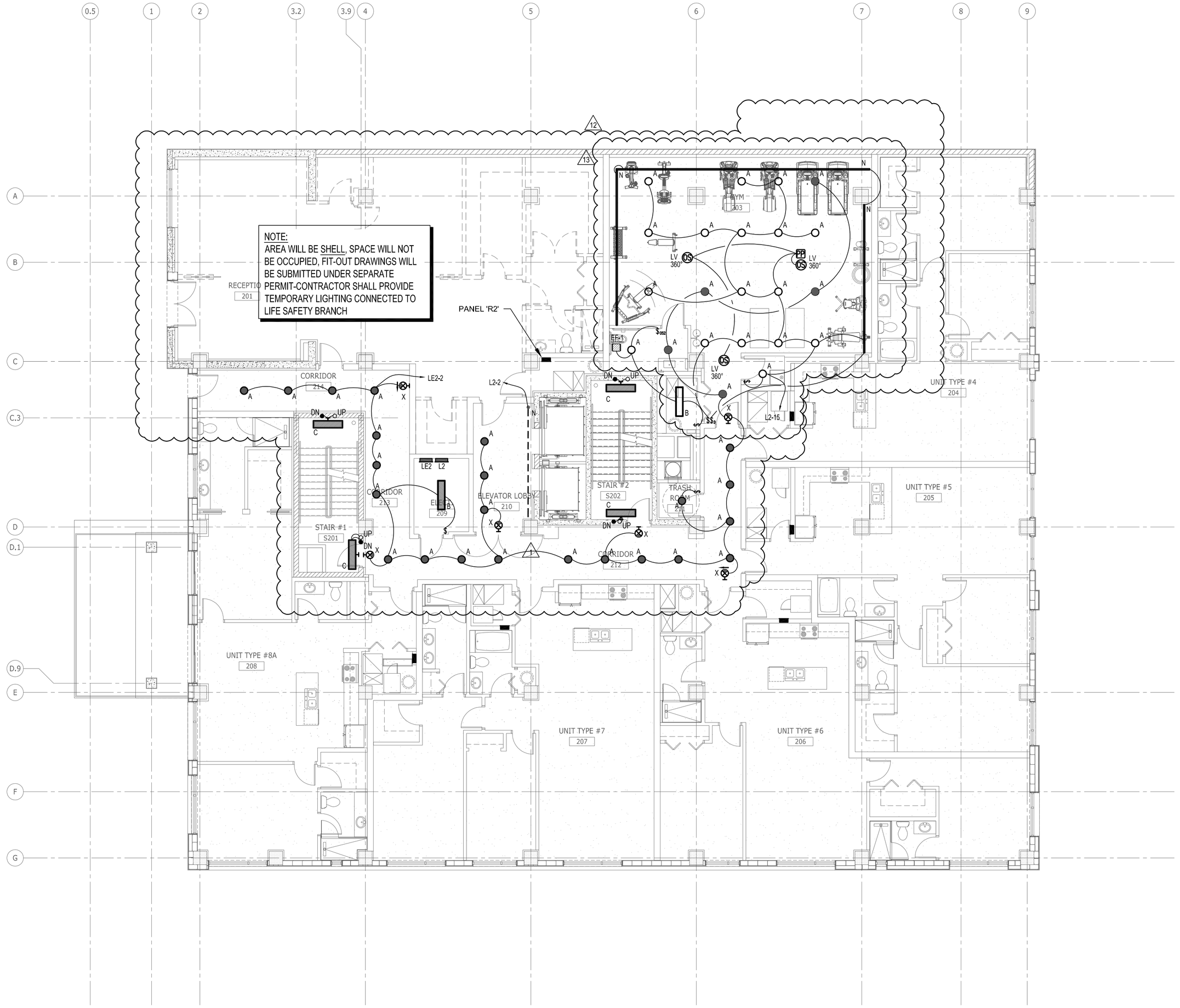
THE SKYVIEW CONDOMINIUMS
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FIRST FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E202

E202 FIRST FLOOR PLAN - LIGHTING
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. COORDINATE LIGHT FIXTURE PLACEMENT AND LAYOUT WITH ARCHITECTURAL PLANS.

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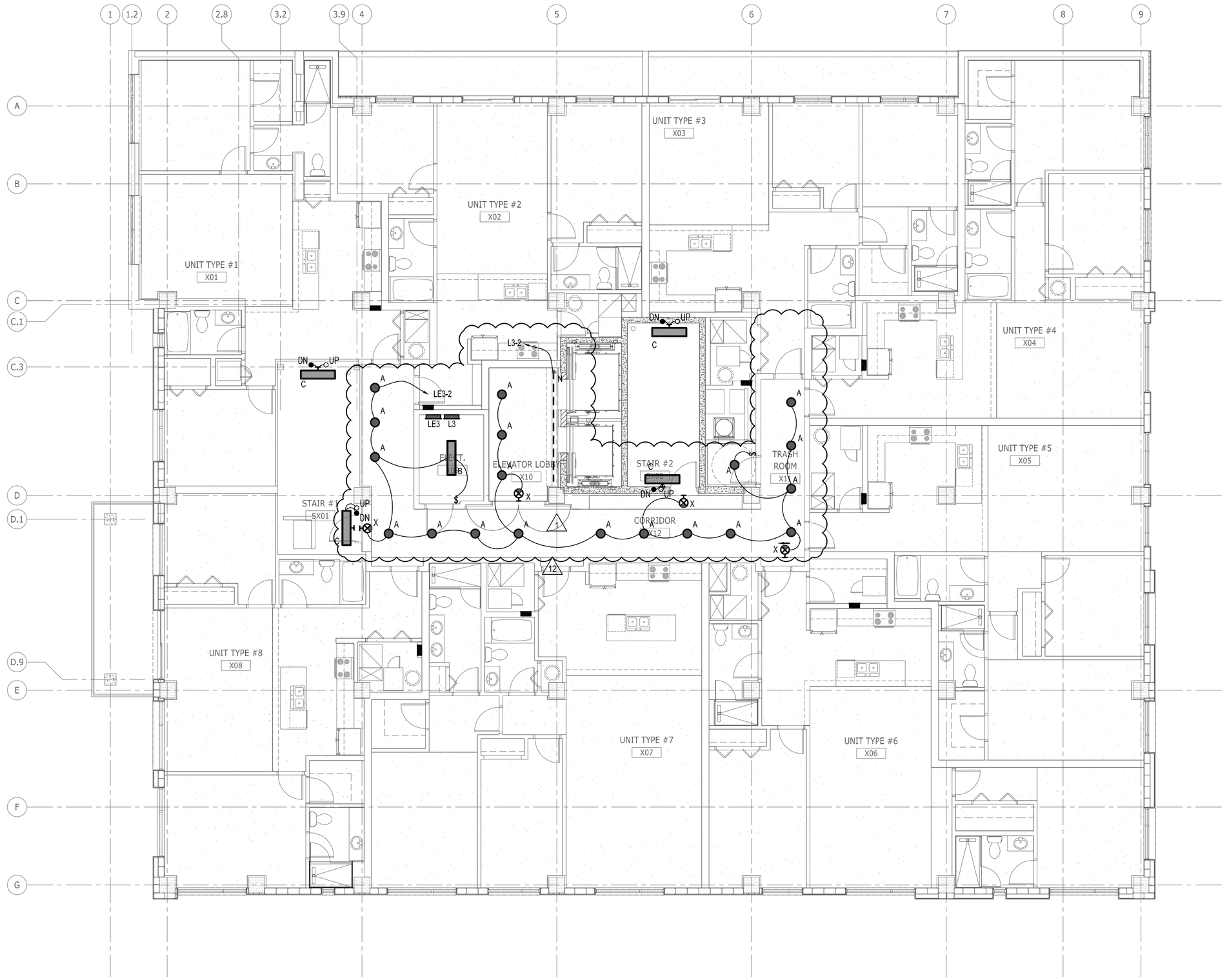
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SECOND FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E203

E203 | **SECOND FLOOR PLAN - LIGHTING**
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
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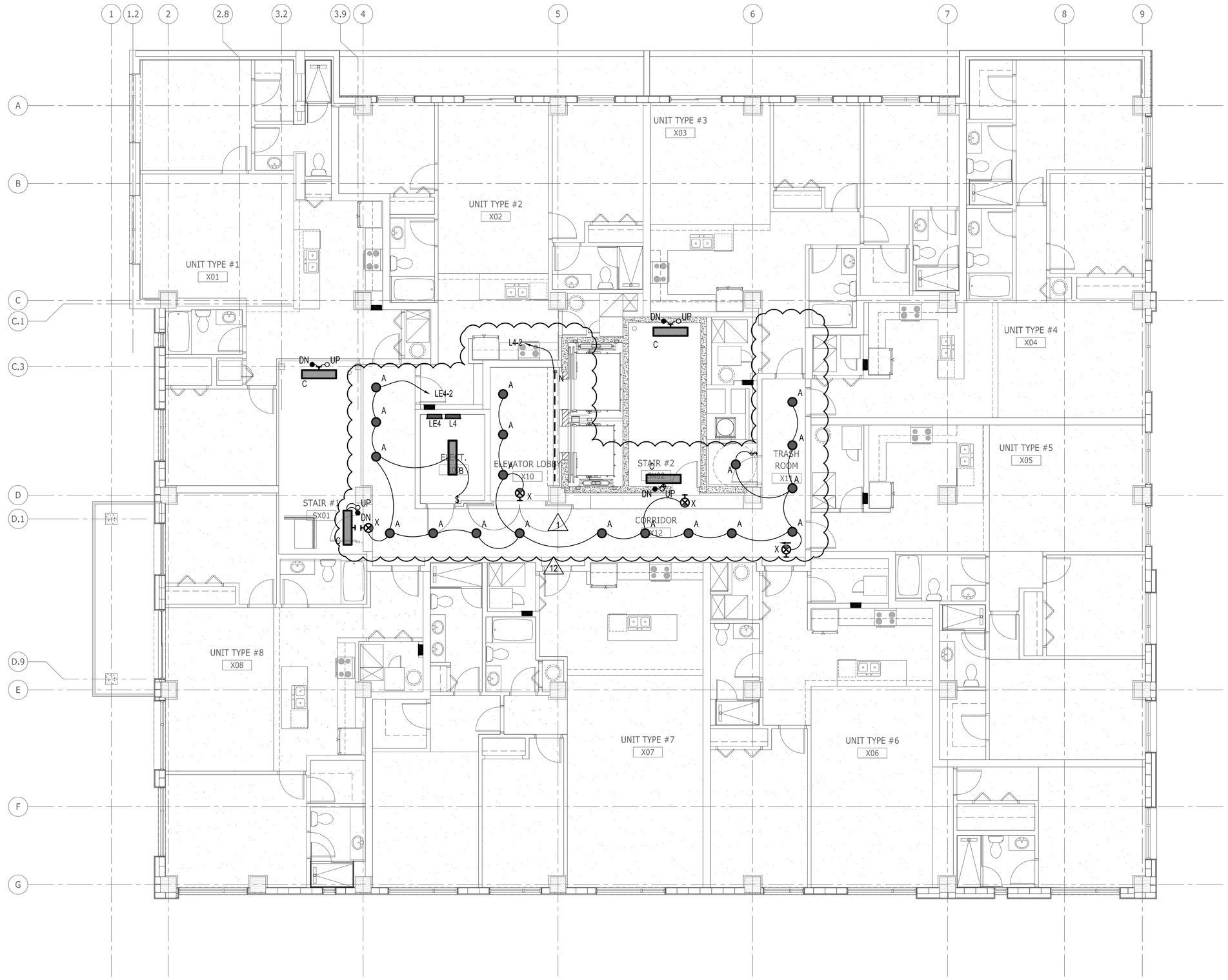
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THIRD FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E204

E204 | **THIRD FLOOR PLAN - LIGHTING**
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
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Nedim Mujbegovic, PE
PE#74728

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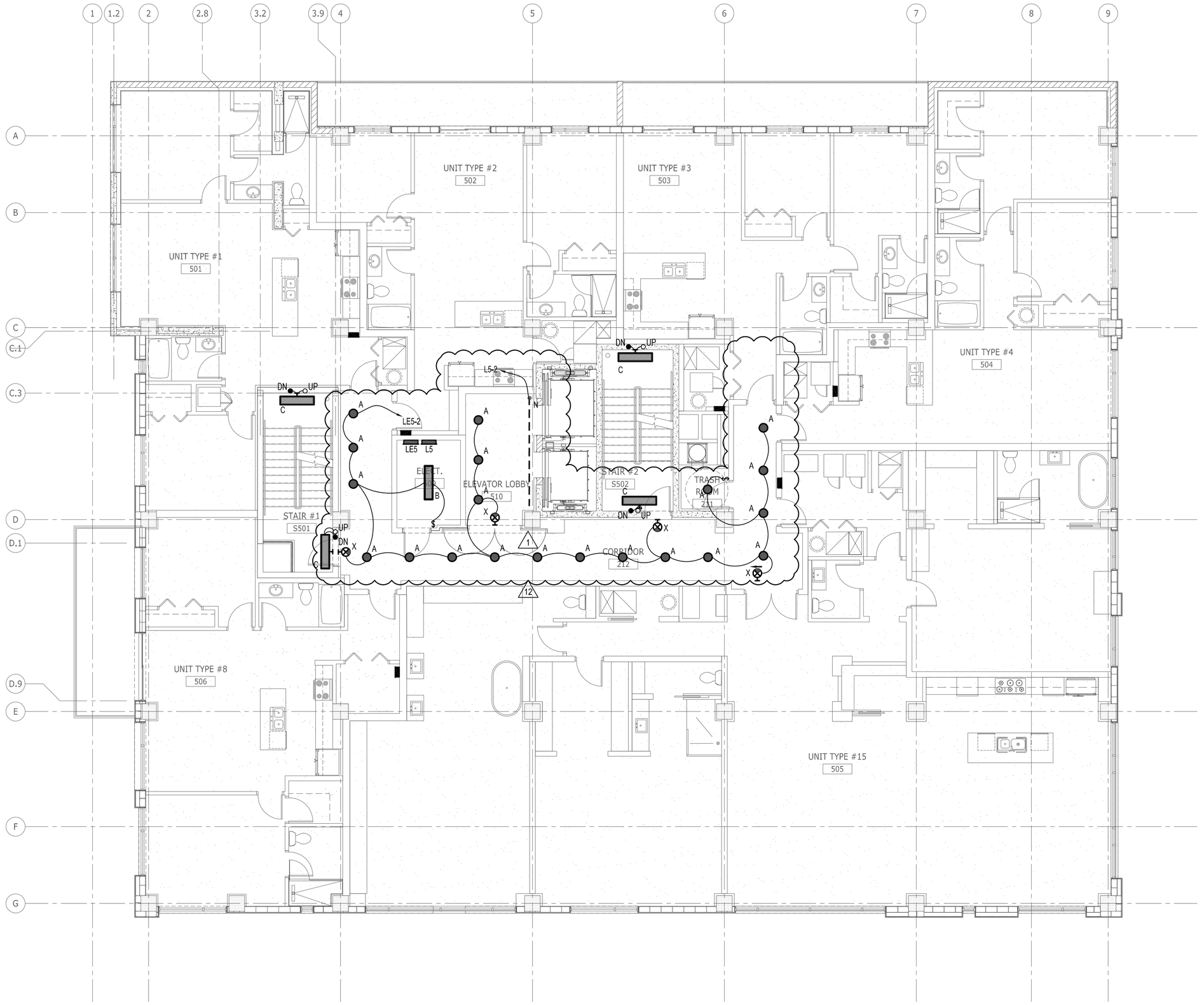
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FOURTH FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E205

E205 FOURTH FLOOR PLAN - LIGHTING
1/8" = 1'-0"



GENERAL NOTES:

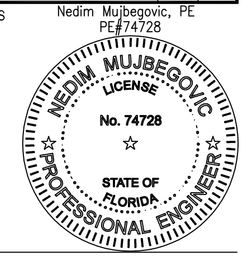
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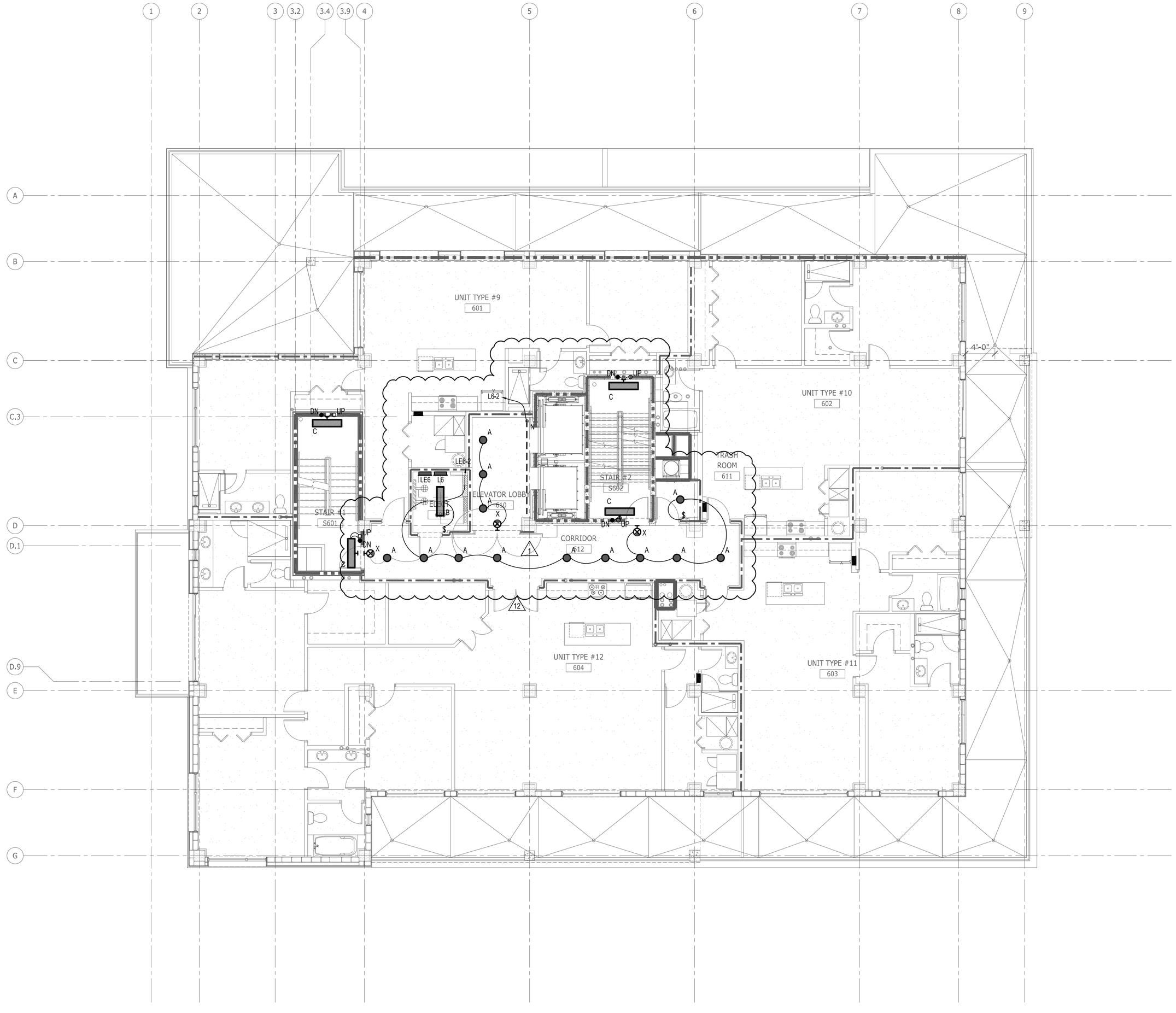
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FIFTH FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E206

E206 | **FIFTH FLOOR PLAN - LIGHTING**
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
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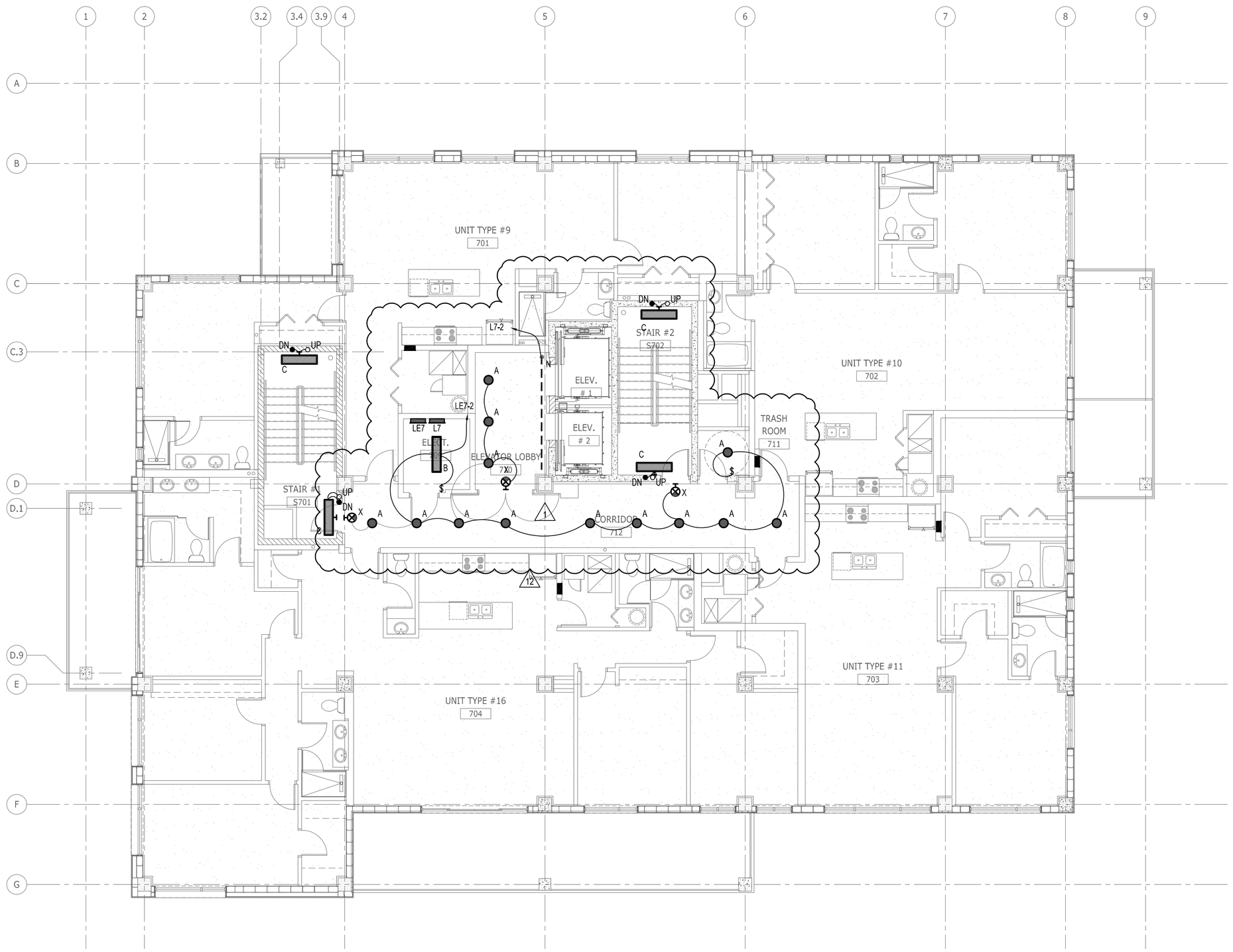
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SIXTH FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E207

E207 SIXTH FLOOR PLAN - LIGHTING
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
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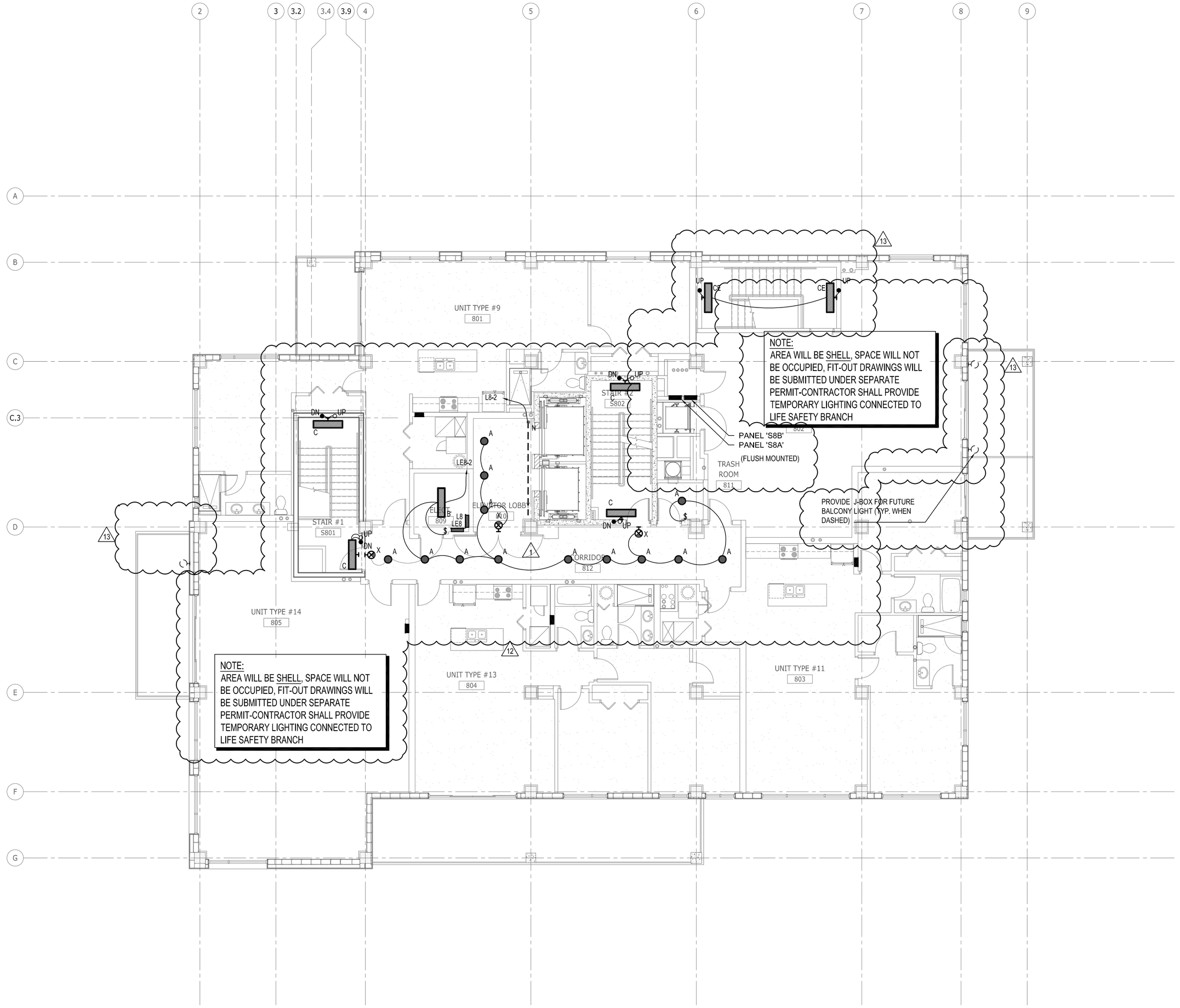
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SEVENTH FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E208

E208 | **SEVENTH FLOOR PLAN - LIGHTING**
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
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TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

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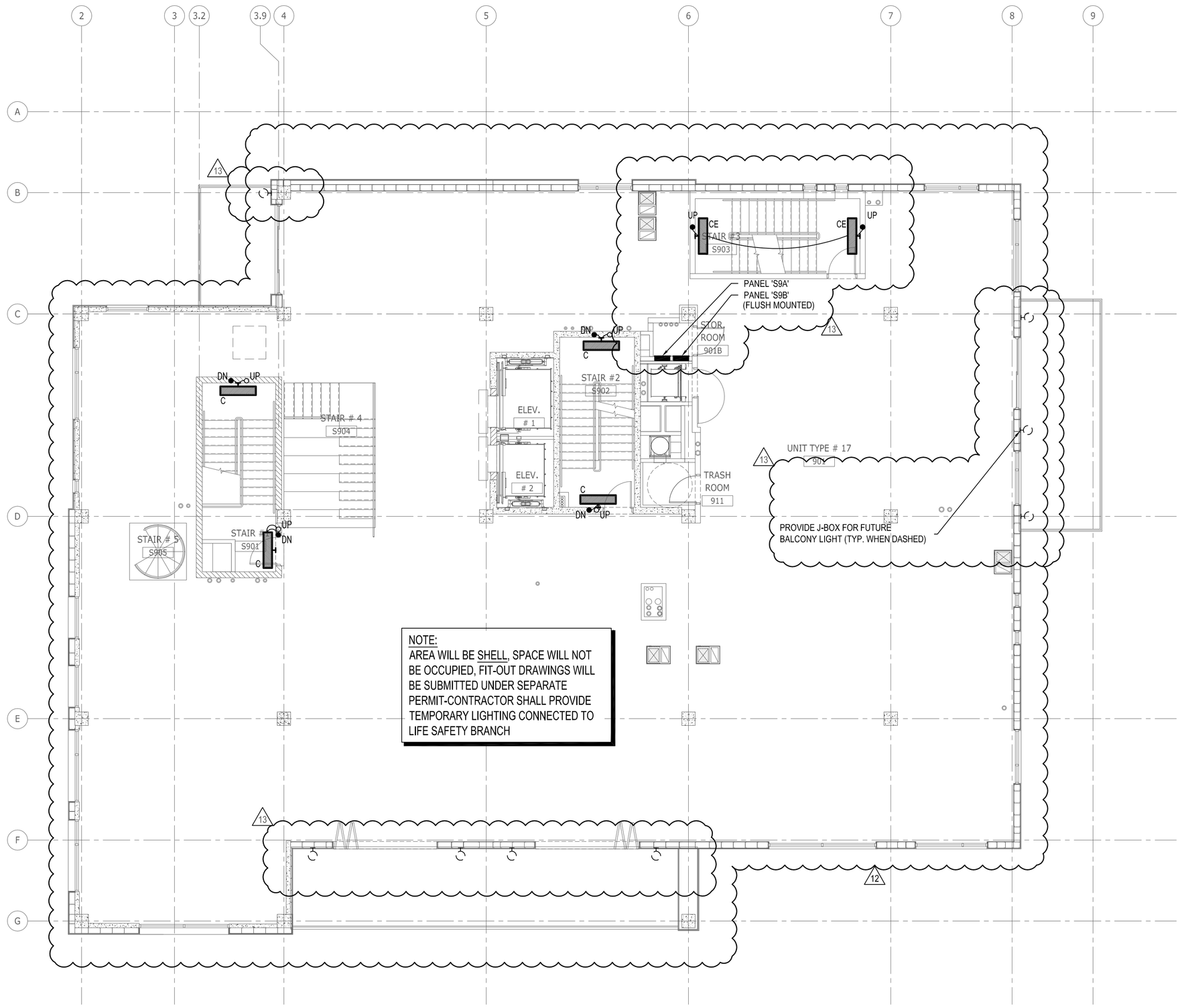
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EIGHTH FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E209

E209 EIGHTH FLOOR PLAN - LIGHTING
1/8" = 1'-0"



GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. COORDINATE LIGHT FIXTURE PLACEMENT AND LAYOUT WITH ARCHITECTURAL PLANS.

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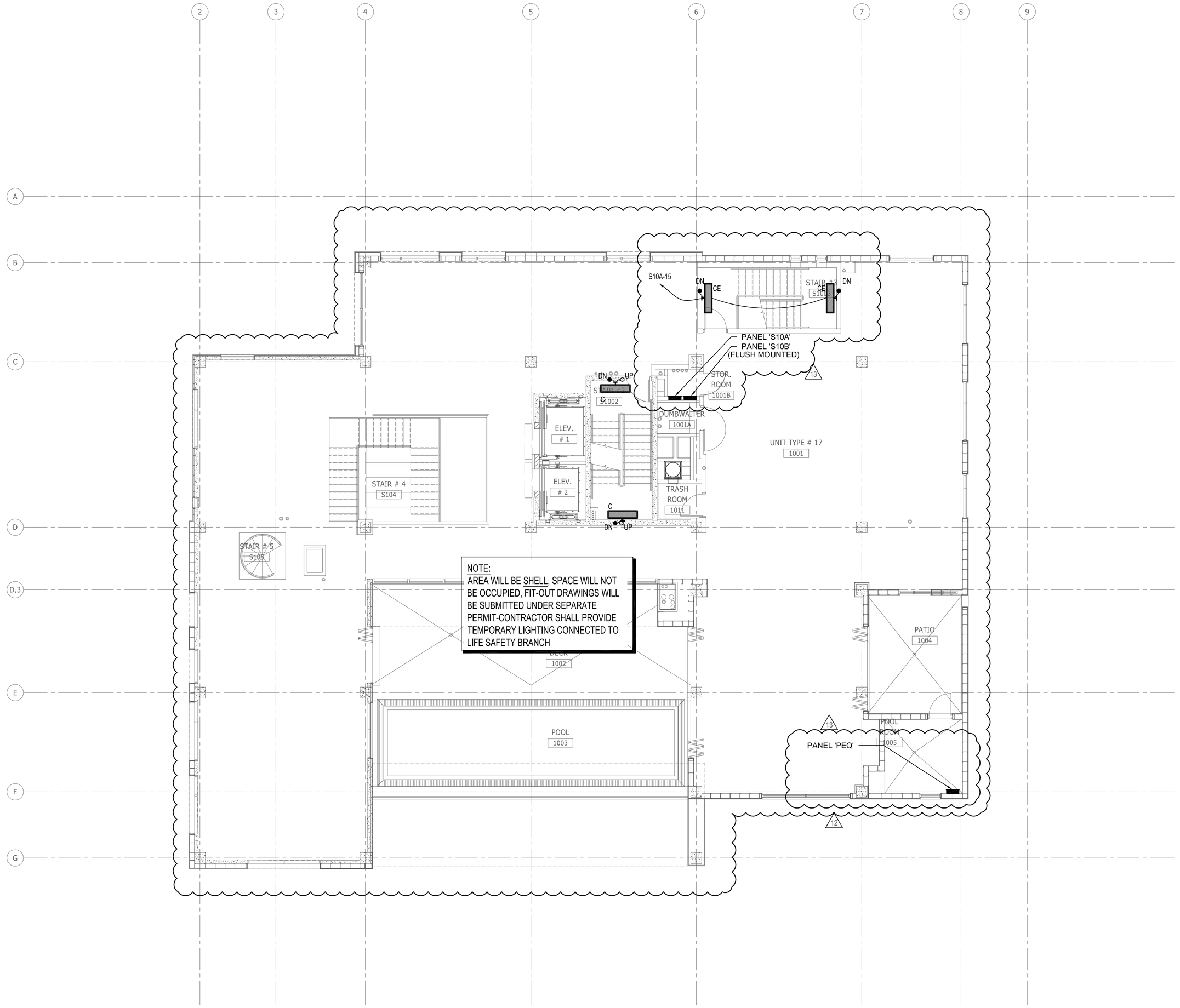
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NINTH FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E210

E210 NINTH FLOOR PLAN - LIGHTING
1/8" = 1'-0"



E211	TENTH FLOOR PLAN - LIGHTING
1/8" = 1'-0"	

GENERAL NOTES:

1. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL IN SLAB CONDUITS AND OR PENETRATIONS WITH ALL SLAB REINFORCEMENT, SLAB REINFORCEMENT SUPERSEDES ALL OTHER TRADES.
3. PROVIDE #10 WIRE FOR BRANCH CIRCUITING EXCEEDING 80'-0". PROVIDE #8 WIRE FOR BRANCH CIRCUITING EXCEEDING 140'-0".
4. PROVIDE DEDICATED NEUTRALS FOR MULTI-WIRE BRANCH CIRCUITS OR PROVIDE MULT-POLE BREAKERS PER NEC.
5. COORDINATE LIGHT FIXTURE PLACEMENT AND LAYOUT WITH ARCHITECTURAL PLANS.
6. REFER TO ARCHITECTURAL DETAILS FOR MOUNTING OF LIGHTING.

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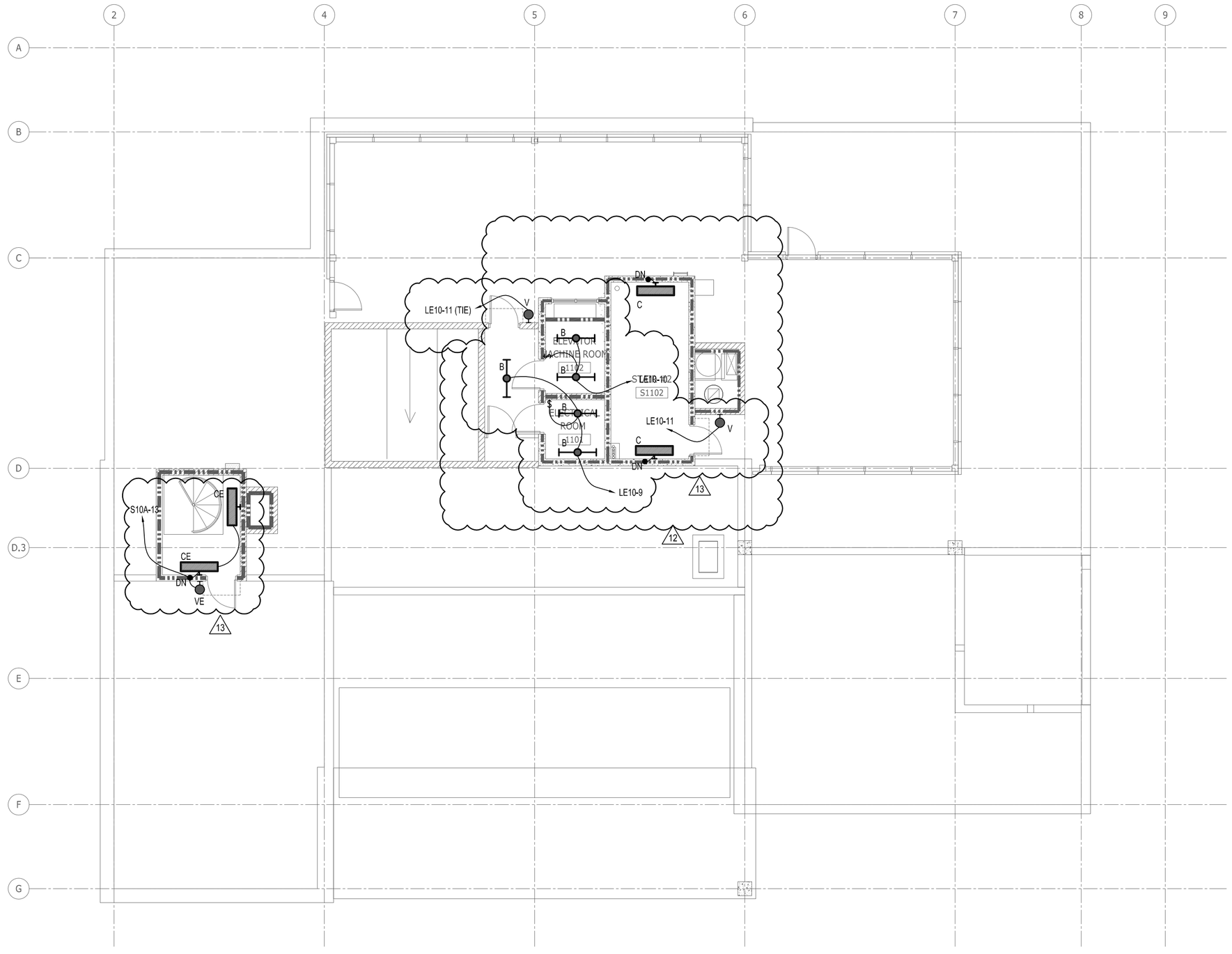
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TENTH FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E211



E212 | **ROOF FLOOR PLAN - LIGHTING**

1/8" = 1'-0"

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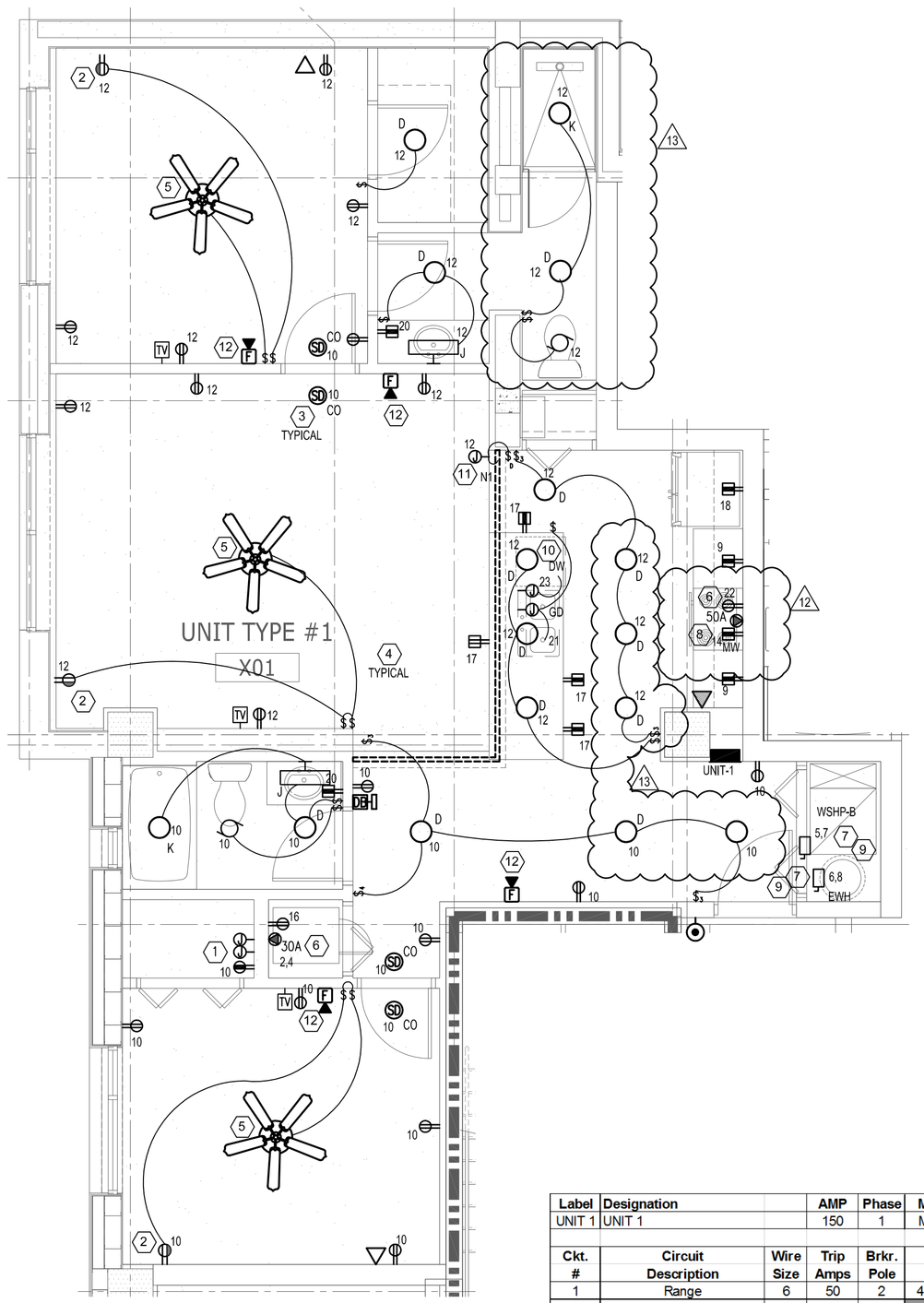
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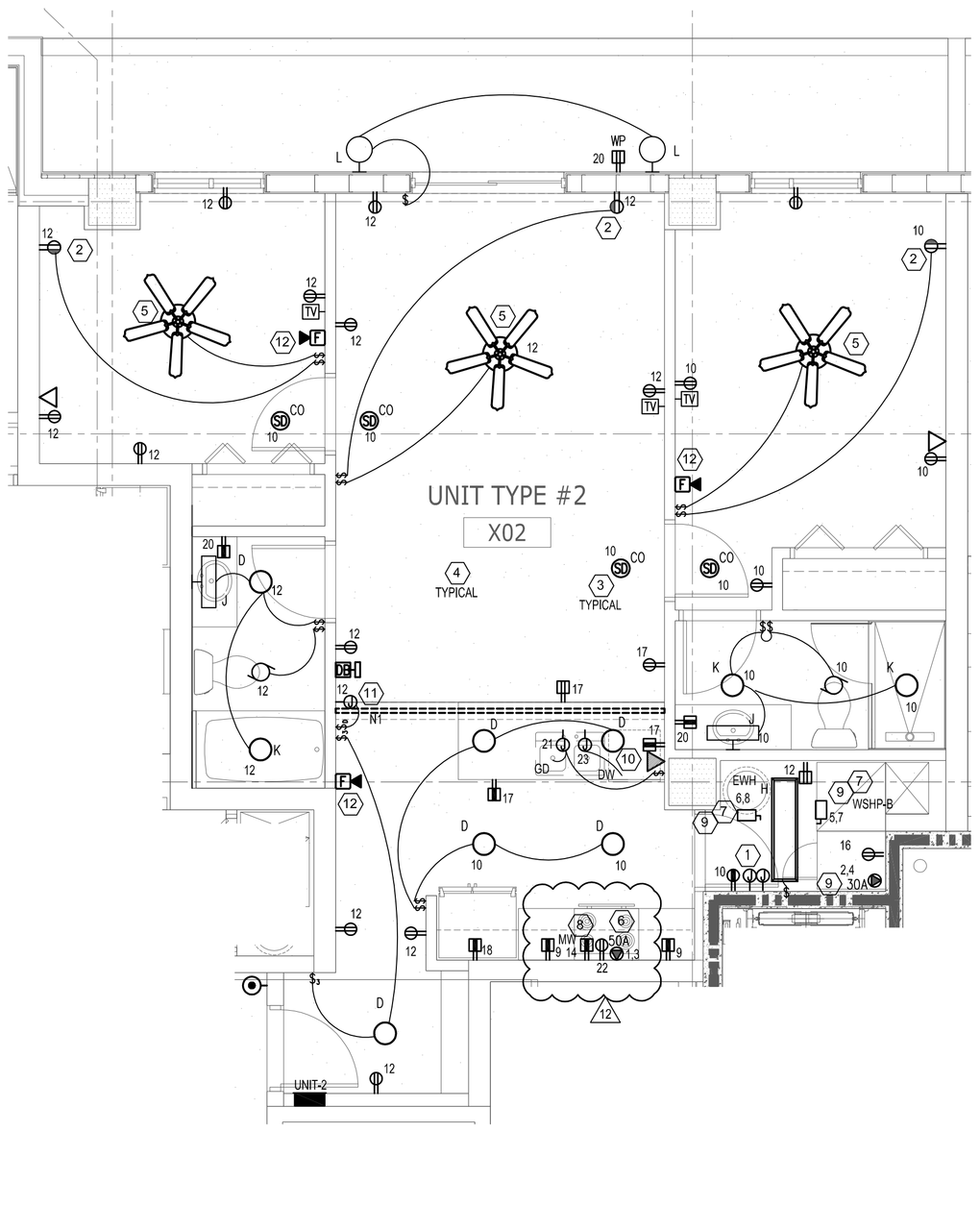
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ROOF FLOOR PLAN - LIGHTING

PROJECT NO.: 13270.99

E212





KEY NOTES: (#)

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
6. PROVIDE MATCHING RECEPTACLES (NEMA CONFIGURATION) FOR KITCHEN RANGES AND CLOTHES DRYERS. ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT VOLTAGE AND POWER REQUIREMENTS. IF THEY VARY FROM RATINGS SHOWN ON PANEL SCHEDULE, MODIFY FEEDER PER N.E.C.
7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
8. PROVIDE POWER CONNECTIONS FOR RANGE HOOD IN CABINET ABOVE COOKTOP. COORDINATE ALL INSTALLATION REQUIREMENTS W/ CABINET INSTALLER AND OWNER PRIOR TO ROUGH-IN.
9. PROVIDE BREAKERS WITH LOCK-OUT DEVICE. AS AN ALTERNATE, A LOCAL DISCONNECT (SWITCH OR PULLOUT) MAY BE SUBSTITUTED.
10. COORDINATE THE DISHWASHER CONNECTION WITH THE APPLIANCE INSTALLER/SUPPLIER.
11. PROVIDE LED DRIVER LOCATED AT ACCESSIBLE COVE LOCATION. COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
12. PROVIDE FIRE ALARM SPEAKER ONLY DEVICES WITHIN THE RESIDENTIAL UNITS AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE MEANS FOR FUTURE RETROFIT OF SPEAKER ONLY DEVICES TO SPEAKER STROBE DEVICES.

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
4. PROVIDE CABLE AND TELEPHONE LOW-VOLTAGE CABLES FROM EACH OUTLET TO DISTRIBUTION BOX (SEE SHEET NOTE 5). COORDINATE REQUIREMENTS WITH ARCHITEC/OWNER PRIOR TO ANY ROUGH-IN.
5. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM.
6. ALL MECHANICAL EQUIPMENT POWER CONNECTIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS DURING THE DESIGN PROCESS. THE MECHANICAL/GENERAL CONTRACTOR, SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE ELECTRICAL EQUIPMENT, DUE TO ACCEPTANCE OF APPROVED EQUAL OR SUBSTITUTIONS OF ANY MECHANICAL EQUIPMENT.
7. STARTERS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED, AND CONNECTED TO THE LINE VOLTAGE BY THE ELECTRICAL CONTRACTOR. ALL FACTORY INSTALLED STARTERS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATION (I.E. UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
9. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE. DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
10. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

Skyview
Unit '#1' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	1070	3	Watts/Sq. Ft.		3,210	Watts
Sm. Appliance Ckt.	2	1,500	Watts		3,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	1	750	Watts		750	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	1	800	Watts		800	Watts
Range	1	8,000	Watts		8,000	Watts
Water Heater	1	4,500	Watts		4,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	27,960	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	17,960	Watts @	40%		7,184	Watts
				Sub-Total	17,184	Watts
A/C Load	>	A/C Load	Per NEC 220.82			
WSHP-B		1,913	Watts @ 100%		1,913	Watts
				Sub-Total	1,913	Watts
			Total Connected Load W/Demand		19,097	Watts
				@	208	Volts
					91.81	Amps
			Unit Main Breaker and Feeders to be		100	Amp Rated
			Total Connected Load W/O Demand		29,873	Watts

Neutral Conductor to be sized at 100%

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 1	UNIT 1		150	1	MLO	30	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #B	12	15	2	0.956	2.250			2	30	10	EWH	6
7	"	"	"	"			0.956	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.440			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Space							1.440	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
					KW No Demand		16.70		14.35		KW No Demand		

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 2	UNIT 2		150	1	MLO	30	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #B	12	15	2	0.956	2.250			2	30	10	EWH	6
7	"	"	"	"			0.956	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.100			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Space							1.100	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
					KW No Demand		16.36		14.01		KW No Demand		

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Skyview
Unit '#2' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	900	3	Watts/Sq. Ft.		2,700	Watts
Sm. Appliance Ckt.	2	1,500	Watts		3,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	1	750	Watts		750	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	1	800	Watts		800	Watts
Range	1	8,000	Watts		8,000	Watts
Water Heater	1	4,500	Watts		4,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	27,450	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	17,450	Watts @	40%		6,980	Watts
				Sub-Total	16,980	Watts
A/C Load	>	A/C Load	Per NEC 220.82			
WSHP-B		1,913	Watts @ 100%		1,913	Watts
				Sub-Total	1,913	Watts
			Total Connected Load W/Demand		18,893	Watts
				@	208	Volts
					90.83	Amps
			Unit Main Breaker and Feeders to be		100	Amp Rated
			Total Connected Load W/O Demand		29,363	Watts

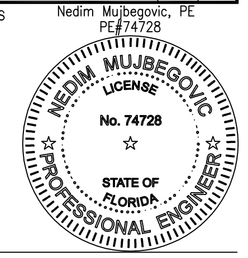
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400 CLEVELAND STREET
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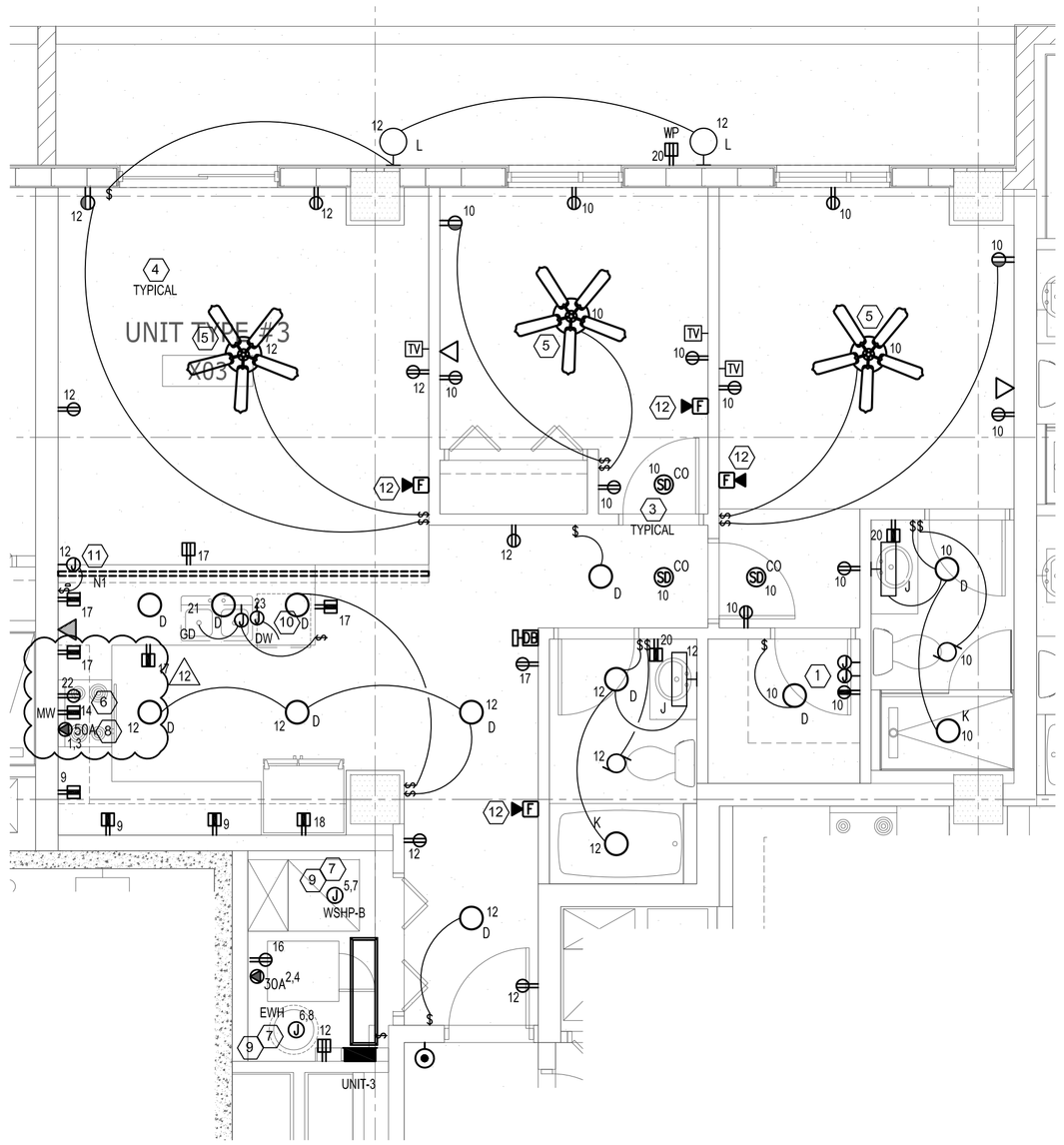
ENLARGED UNIT PLANS - ELECTRICAL

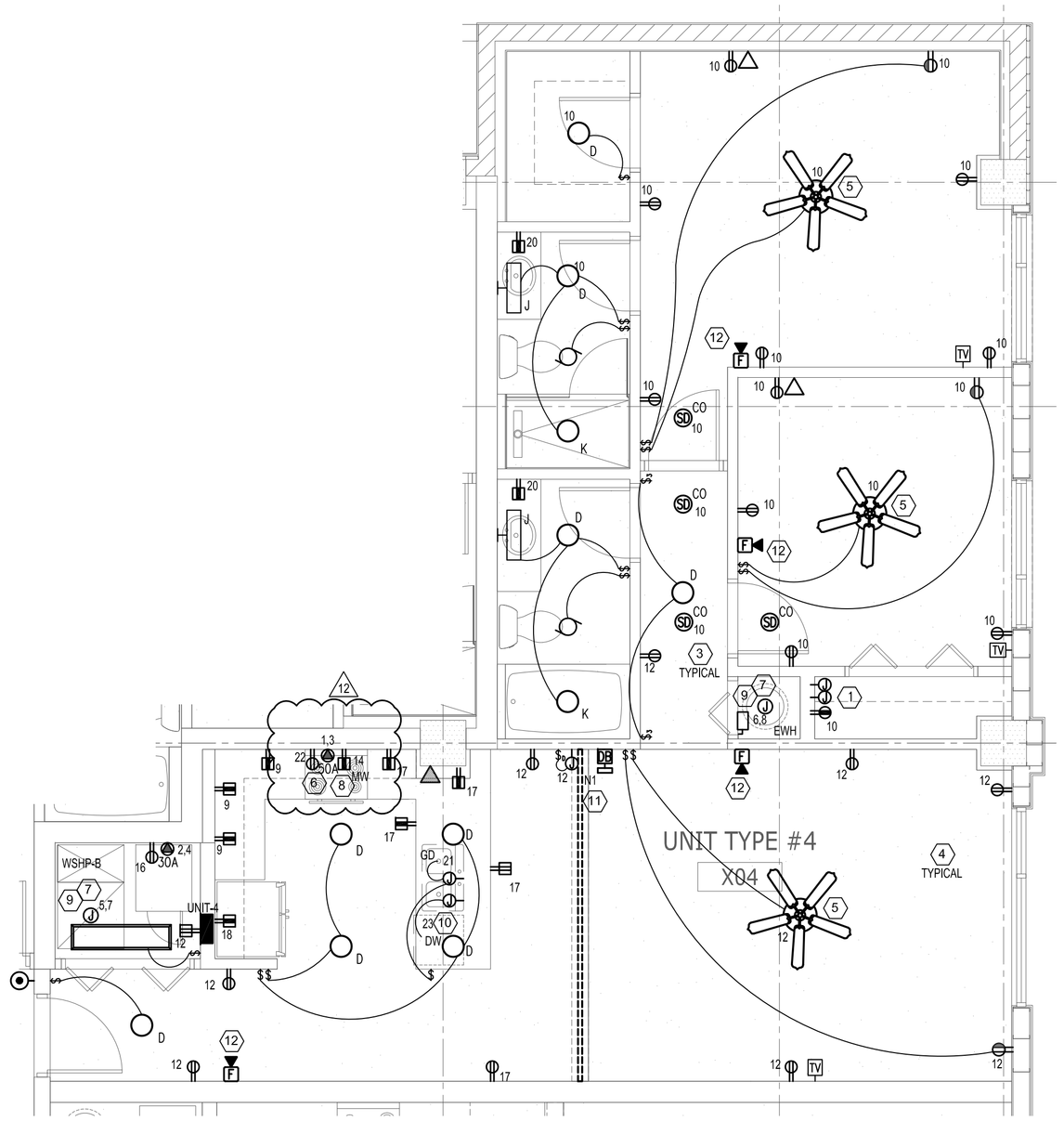
PROJECT NO.: 13270.99

E301

1 ENLARGED ELECTRICAL PLAN - UNIT 1
1/4" = 1'-0"

2 ENLARGED ELECTRICAL PLAN - UNIT 2
1/4" = 1'-0"





KEY NOTES:

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
6. PROVIDE MATCHING RECEPTACLES (NEMA CONFIGURATION) FOR KITCHEN RANGES AND CLOTHES DRYERS. ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT VOLTAGE AND POWER REQUIREMENTS. IF THEY VARY FROM RATINGS SHOWN ON PANEL SCHEDULE, MODIFY FEEDER PER N.E.C.
7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
8. PROVIDE POWER CONNECTIONS FOR RANGE HOOD IN CABINET ABOVE COOKTOP. COORDINATE ALL INSTALLATION REQUIREMENTS W/ CABINET INSTALLER AND OWNER PRIOR TO ROUGH-IN.
9. PROVIDE BREAKERS WITH LOCK-OUT DEVICE. AS AN ALTERNATE, A LOCAL DISCONNECT (SWITCH OR PULLOUT) MAY BE SUBSTITUTED.
10. COORDINATE THE DISHWASHER CONNECTION WITH THE APPLIANCE INSTALLER/SUPPLIER.
11. PROVIDE LED DRIVER LOCATED AT ACCESSIBLE COVE LOCATION. COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
12. PROVIDE FIRE ALARM SPEAKER ONLY DEVICES WITHIN THE RESIDENTIAL UNITS AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE MEANS FOR FUTURE RETROFIT OF SPEAKER ONLY DEVICES TO SPEAKER STROBE DEVICES.

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE '2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
4. PROVIDE CABLE AND TELEPHONE LOW-VOLTAGE CABLES FROM EACH OUTLET TO DISTRIBUTION BOX (SEE SHEET NOTE 5). COORDINATE REQUIREMENTS WITH ARCHITEC/OWNER PRIOR TO ANY ROUGH-IN.
5. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM.
6. ALL MECHANICAL EQUIPMENT POWER CONNECTIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS DURING THE DESIGN PROCESS. THE MECHANICAL/GENERAL CONTRACTOR, SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE ELECTRICAL EQUIPMENT, DUE TO ACCEPTANCE OF APPROVED EQUAL OR SUBSTITUTIONS OF ANY MECHANICAL EQUIPMENT.
7. STARTERS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED, AND CONNECTED TO THE LINE VOLTAGE BY THE ELECTRICAL CONTRACTOR. ALL FACTORY INSTALLED STARTERS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATION (I.E. UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
9. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE. DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
10. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

Skyview
Unit '#3' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	928	3	Watts/Sq. Ft.		2,784	Watts
Sm. Appliance Ckt.	2	1,500	Watts		3,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	1	750	Watts		750	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	1	800	Watts		800	Watts
Range	1	8,000	Watts		8,000	Watts
Water Heater	1	4,500	Watts		4,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	27,534	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	17,534	Watts @	40%		7,014	Watts
				Sub-Total	17,014	Watts
A/C Load	>	A/C Load Per NEC 220.82				
WSHP-B		1,913	Watts @ 100%		1,913	Watts
				Sub-Total	1,913	Watts
			Total Connected Load W/Demand		18,927	Watts
				@	208	Volts
					90.99	Amps
			Unit Main Breaker and Feeders to be		100	Amp Rated
			Total Connected Load W/O Demand		29,447	Watts

Neutral Conductor to be sized at 100%

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 3	UNIT 3		150	1	MLO	30	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #B	12	15	2	0.956	2.250			2	30	10	EWH	6
7	"	"	"	"			0.956	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.142			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Space							1.142	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
			KW No Demand		16.40		14.05		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 4	UNIT 4		150	1	MLO	30	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #B	12	15	2	0.956	2.250			2	30	10	EWH	6
7	"	"	"	"			0.956	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.346			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Space							1.346	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
			KW No Demand		16.60		14.25		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Skyview
Unit '#4' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	1064	3	Watts/Sq. Ft.		3,192	Watts
Sm. Appliance Ckt.	2	1,500	Watts		3,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	1	750	Watts		750	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	1	800	Watts		800	Watts
Range	1	8,000	Watts		8,000	Watts
Water Heater	1	4,500	Watts		4,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	27,942	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	17,942	Watts @	40%		7,177	Watts
				Sub-Total	17,177	Watts
A/C Load	>	A/C Load Per NEC 220.82				
WSHP-B		1,913	Watts @ 100%		1,913	Watts
				Sub-Total	1,913	Watts
			Total Connected Load W/Demand		19,090	Watts
				@	208	Volts
					91.78	Amps
			Unit Main Breaker and Feeders to be		100	Amp Rated
			Total Connected Load W/O Demand		29,855	Watts

Neutral Conductor to be sized at 100%

No.	Date	Revisions / Submissions	D.	CK.
12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
2	03/16/2015	PERMIT REVIEW COMMENTS		
1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

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Nedim Mujbegovic, PE
PE#74728

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THE SKYVIEW CONDOMINIUMS

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CLEARWATER, FLORIDA 33755

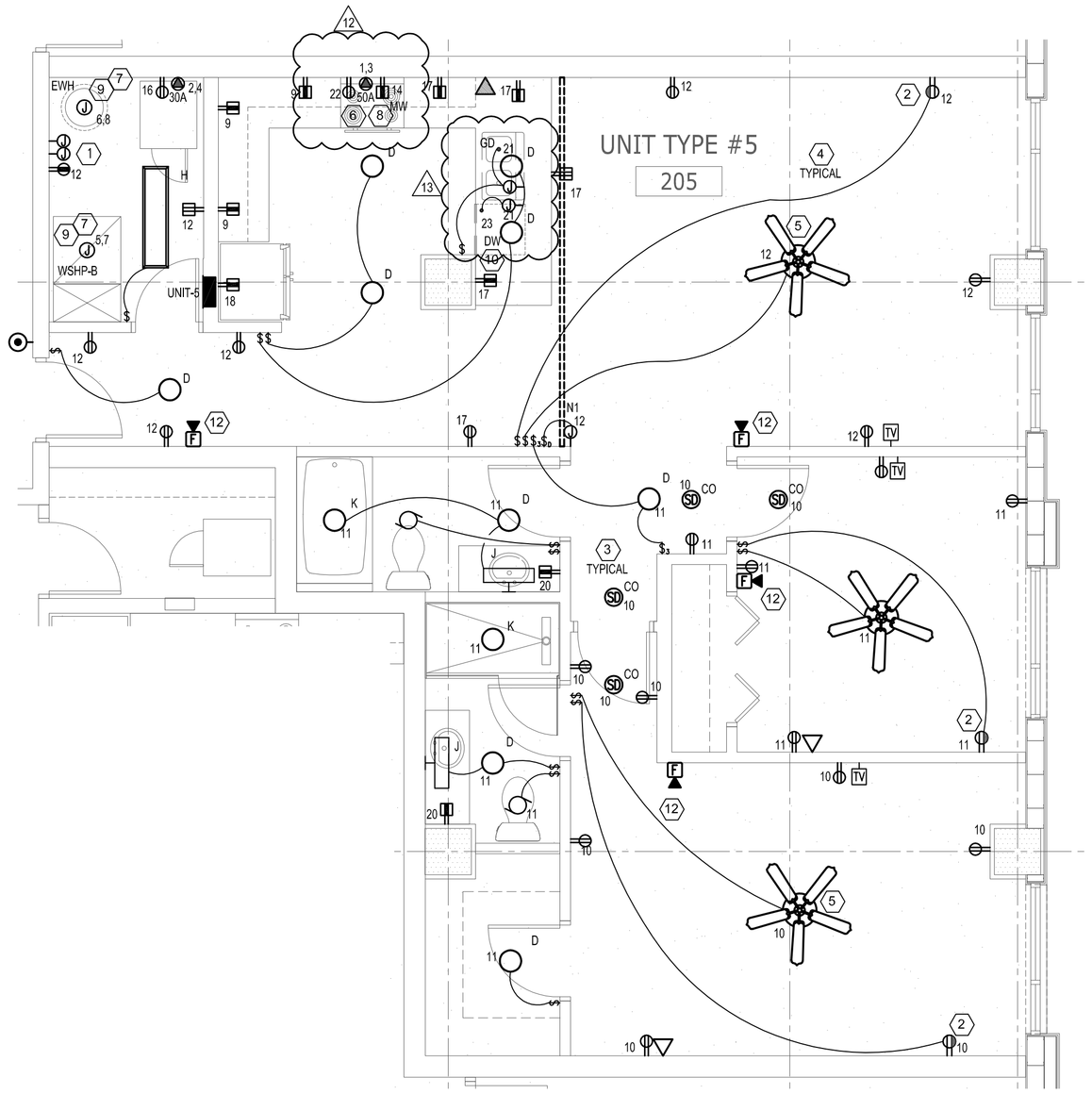
ENLARGED UNIT PLANS - ELECTRICAL

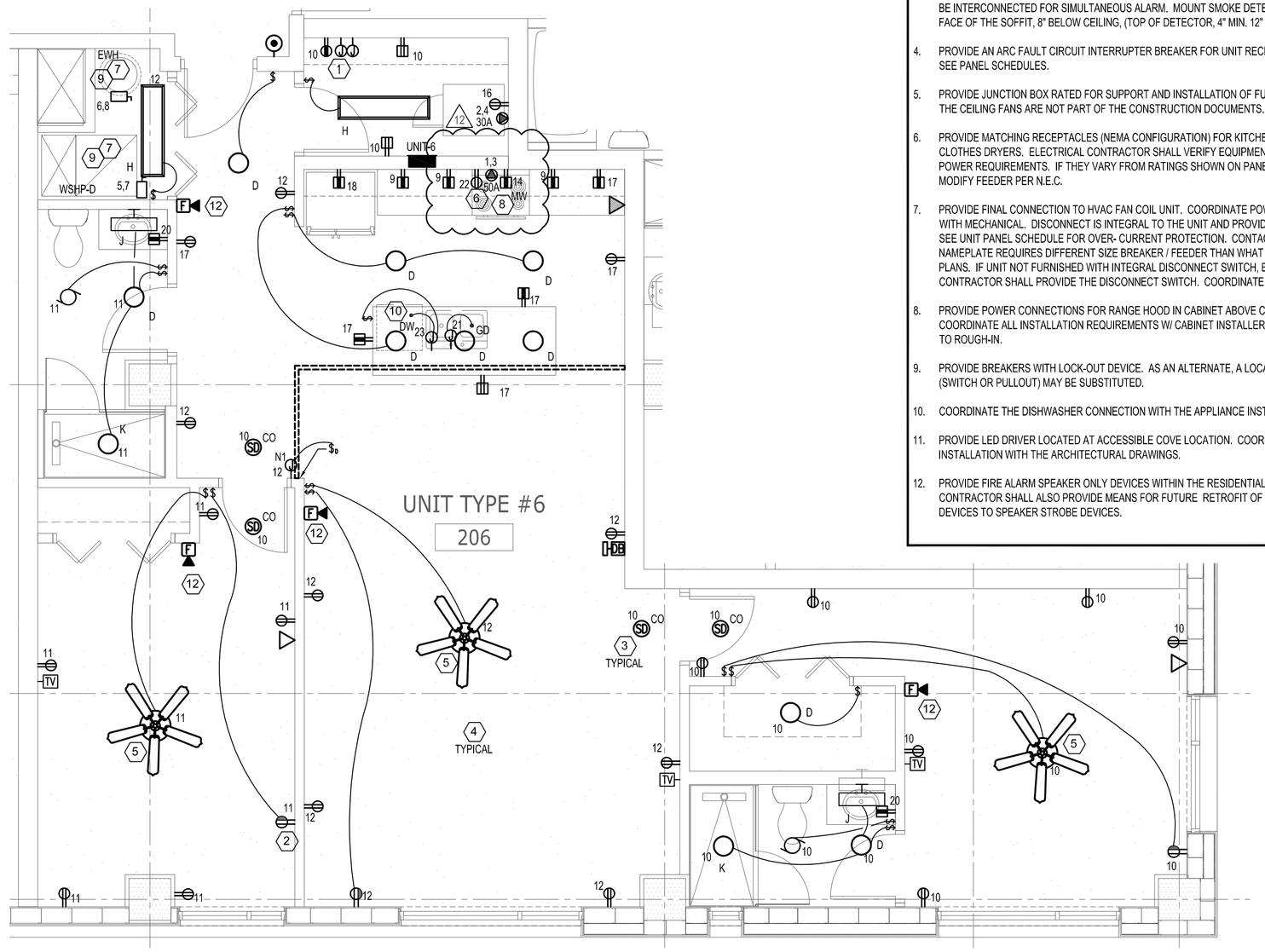
PROJECT NO.: 13270.99

E302

1 ENLARGED ELECTRICAL PLAN - UNIT 3 — 1/4" = 1'-0"

2 ENLARGED ELECTRICAL PLAN - UNIT 4 — 1/4" = 1'-0"





KEY NOTES: (#)

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
6. PROVIDE MATCHING RECEPTACLES (NEMA CONFIGURATION) FOR KITCHEN RANGES AND CLOTHES DRYERS. ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT VOLTAGE AND POWER REQUIREMENTS. IF THEY VARY FROM RATINGS SHOWN ON PANEL SCHEDULE, MODIFY FEEDER PER N.E.C.
7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
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9. PROVIDE BREAKERS WITH LOCK-OUT DEVICE. AS AN ALTERNATE, A LOCAL DISCONNECT (SWITCH OR PULLOUT) MAY BE SUBSTITUTED.
10. COORDINATE THE DISHWASHER CONNECTION WITH THE APPLIANCE INSTALLER/SUPPLIER.
11. PROVIDE LED DRIVER LOCATED AT ACCESSIBLE COVE LOCATION. COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
12. PROVIDE FIRE ALARM SPEAKER ONLY DEVICES WITHIN THE RESIDENTIAL UNITS AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE MEANS FOR FUTURE RETROFIT OF SPEAKER ONLY DEVICES TO SPEAKER STROBE DEVICES.

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE '2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
4. PROVIDE CABLE AND TELEPHONE LOW-VOLTAGE CABLES FROM EACH OUTLET TO DISTRIBUTION BOX (SEE SHEET NOTE 5). COORDINATE REQUIREMENTS WITH ARCHITEC/OWNER PRIOR TO ANY ROUGH-IN.
5. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM.
6. ALL MECHANICAL EQUIPMENT POWER CONNECTIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS DURING THE DESIGN PROCESS. THE MECHANICAL/GENERAL CONTRACTOR, SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE ELECTRICAL EQUIPMENT, DUE TO ACCEPTANCE OF APPROVED EQUAL OR SUBSTITUTIONS OF ANY MECHANICAL EQUIPMENT.
7. STARTERS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED, AND CONNECTED TO THE LINE VOLTAGE BY THE ELECTRICAL CONTRACTOR. ALL FACTORY INSTALLED STARTERS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATION (I.E. UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
9. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE. DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
10. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

Skyview
Unit '#5' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	1168	3	Watts/Sq. Ft.	3,504	Watts	
Sm. Appliance Ckt.	2	1,500	Watts	3,000	Watts	
Dishwasher	1	1,200	Watts	1,200	Watts	
Disposal	1	750	Watts	750	Watts	
Dryer	1	5,000	Watts	5,000	Watts	
Refrigerator	1	800	Watts	800	Watts	
Range	1	8,000	Watts	8,000	Watts	
Water Heater	1	4,500	Watts	4,500	Watts	
Washer	1	1,500	Watts	1,500	Watts	
Other	0	0	Watts	0	Watts	
Other	0	0	Watts	0	Watts	
			Total	28,254	Watts	
First	10,000	Watts @	100%	10,000	Watts	
Remainder	18,254	Watts @	40%	7,302	Watts	
			Sub-Total	17,302	Watts	
A/C Load	>	A/C Load	Per NEC 220.82			
WSHP-B		1,913	Watts @ 100%	1,913	Watts	
			Sub-Total	1,913	Watts	
			Total Connected Load W/Demand	19,215	Watts	
			@	208	Volts	
				92.38	Amps	
			Unit Main Breaker and Feeders to be	100	Amp Rated	
			Total Connected Load W/O Demand	30,167	Watts	

Neutral Conductor to be sized at 100%

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 6	UNIT 6		150	1	MLO	30	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #D	10	30	2	1.809	2.250			2	30	10	EWH	6
7	"	"	"	"			1.809	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.112			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	12	20	1			1.112	1.112	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
					KW No Demand		17.22		15.98		KW No Demand		

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 5	UNIT 5		150	1	MLO	30	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #B	12	15	2	0.956	2.250			2	30	10	EWH	6
7	"	"	"	"			0.956	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.000			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	12	20	1			1.000	1.000	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
					KW No Demand		16.26		14.91		KW No Demand		

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Skyview
Unit '#6' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	1279	3	Watts/Sq. Ft.	3,837	Watts	
Sm. Appliance Ckt.	2	1,500	Watts	3,000	Watts	
Dishwasher	1	1,200	Watts	1,200	Watts	
Disposal	1	750	Watts	750	Watts	
Dryer	1	5,000	Watts	5,000	Watts	
Refrigerator	1	800	Watts	800	Watts	
Range	1	8,000	Watts	8,000	Watts	
Water Heater	1	4,500	Watts	4,500	Watts	
Washer	1	1,500	Watts	1,500	Watts	
Other	0	0	Watts	0	Watts	
Other	0	0	Watts	0	Watts	
			Total	28,587	Watts	
First	10,000	Watts @	100%	10,000	Watts	
Remainder	18,587	Watts @	40%	7,435	Watts	
			Sub-Total	17,435	Watts	
A/C Load	>	A/C Load	Per NEC 220.82			
WSHP-D		3,619	Watts @ 100%	3,619	Watts	
			Sub-Total	3,619	Watts	
			Total Connected Load W/Demand	21,054	Watts	
			@	208	Volts	
				101.22	Amps	
			Unit Main Breaker and Feeders to be	150	Amp Rated	
			Total Connected Load W/O Demand	32,206	Watts	

Neutral Conductor to be sized at 100%

No.	Date	Revisions / Submissions	D.	CK.
13	02/22/2016	PERMIT REVISIONS		
12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
2	03/16/2015	PERMIT REVIEW COMMENTS		
1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

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Nedim Mujbegovic, PE #74728

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THE SKYVIEW CONDOMINIUMS

400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

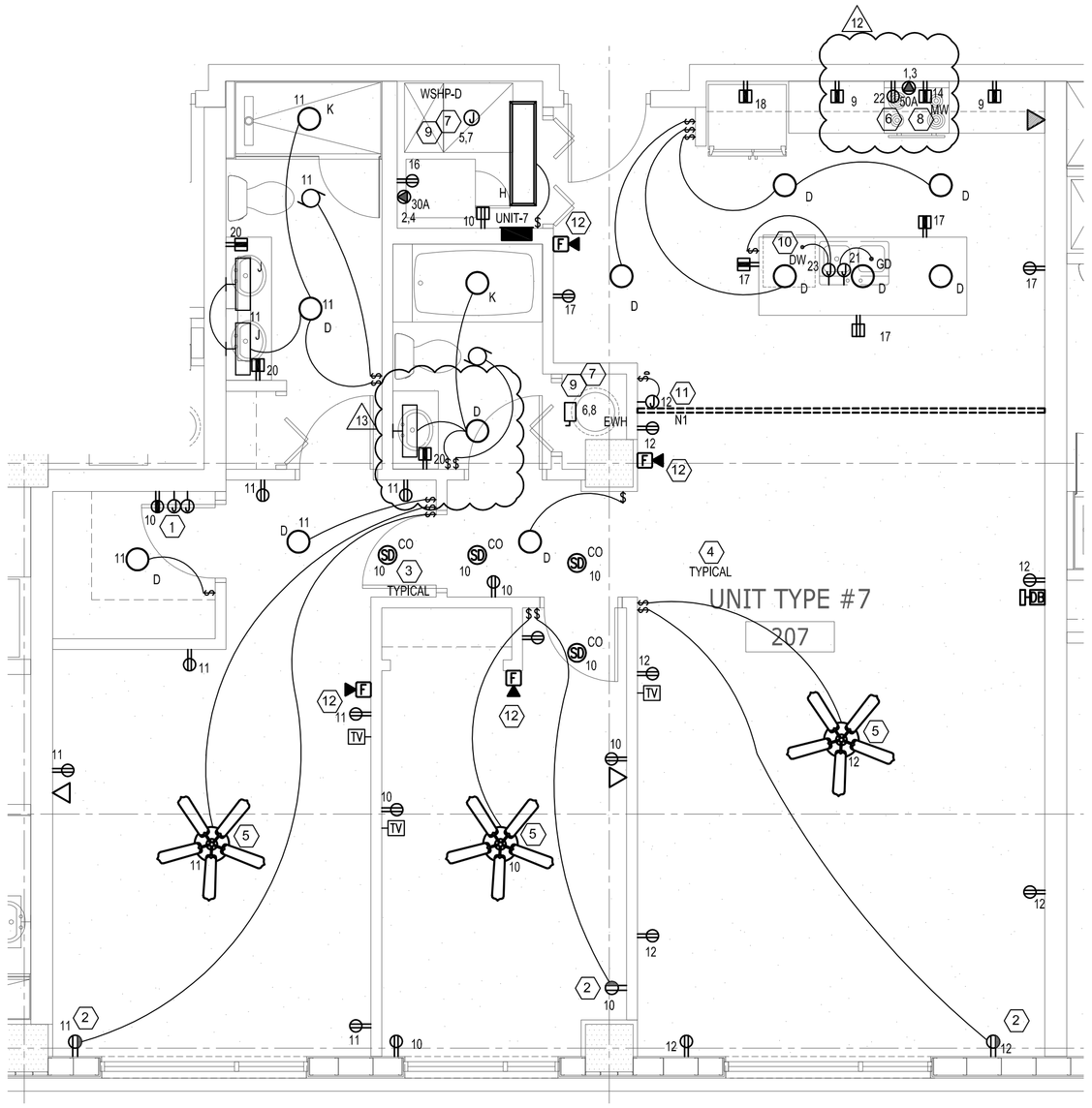
ENLARGED UNIT PLANS - ELECTRICAL

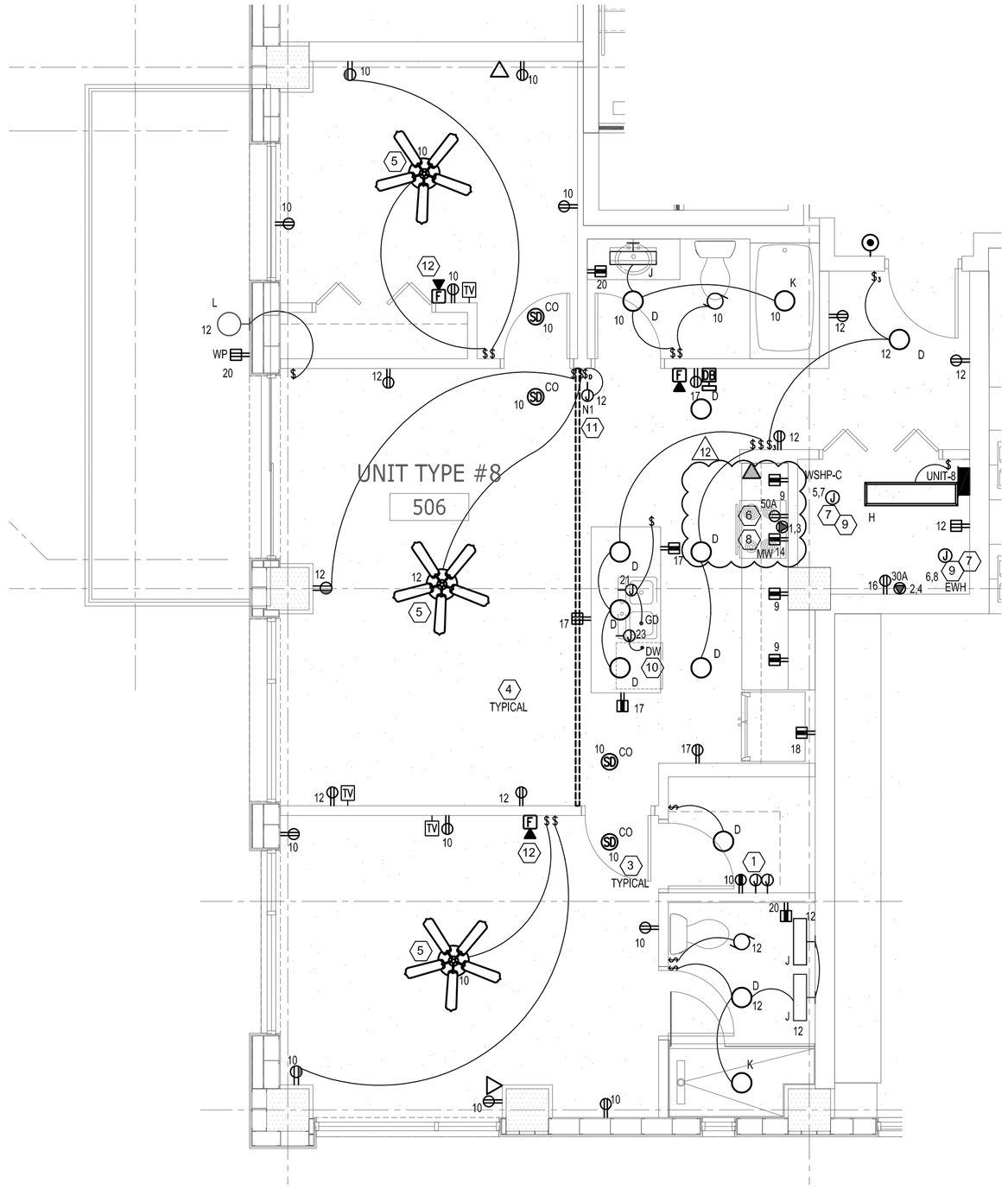
PROJECT NO.: 13270.99

E303

1 ENLARGED ELECTRICAL PLAN - UNIT 5
1/4" = 1'-0"

2 ENLARGED ELECTRICAL PLAN - UNIT 6
1/4" = 1'-0"





KEY NOTES: (#)

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
6. PROVIDE MATCHING RECEPTACLES (NEMA CONFIGURATION) FOR KITCHEN RANGES AND CLOTHES DRYERS. ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT VOLTAGE AND POWER REQUIREMENTS. IF THEY VARY FROM RATINGS SHOWN ON PANEL SCHEDULE, MODIFY FEEDER PER N.E.C.
7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
8. PROVIDE POWER CONNECTIONS FOR RANGE HOOD IN CABINET ABOVE COOKTOP. COORDINATE ALL INSTALLATION REQUIREMENTS W/ CABINET INSTALLER AND OWNER PRIOR TO ROUGH-IN.
9. PROVIDE BREAKERS WITH LOCK-OUT DEVICE. AS AN ALTERNATE, A LOCAL DISCONNECT (SWITCH OR PULLOUT) MAY BE SUBSTITUTED.
10. COORDINATE THE DISHWASHER CONNECTION WITH THE APPLIANCE INSTALLER/SUPPLIER.
11. PROVIDE LED DRIVER LOCATED AT ACCESSIBLE COVE LOCATION. COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
12. PROVIDE FIRE ALARM SPEAKER ONLY DEVICES WITHIN THE RESIDENTIAL UNITS AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE MEANS FOR FUTURE RETROFIT OF SPEAKER ONLY DEVICES TO SPEAKER STROBE DEVICES.

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE 2" FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
4. PROVIDE CABLE AND TELEPHONE LOW-VOLTAGE CABLES FROM EACH OUTLET TO DISTRIBUTION BOX (SEE SHEET NOTE 5). COORDINATE REQUIREMENTS WITH ARCHITEC/OWNER PRIOR TO ANY ROUGH-IN.
5. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM.
6. ALL MECHANICAL EQUIPMENT POWER CONNECTIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS DURING THE DESIGN PROCESS. THE MECHANICAL/GENERAL CONTRACTOR, SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE ELECTRICAL EQUIPMENT, DUE TO ACCEPTANCE OF APPROVED EQUAL OR SUBSTITUTIONS OF ANY MECHANICAL EQUIPMENT.
7. STARTERS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED, AND CONNECTED TO THE LINE VOLTAGE BY THE ELECTRICAL CONTRACTOR. ALL FACTORY INSTALLED STARTERS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATION (I.E. UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
9. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE. DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
10. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

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THE SKYVIEW CONDOMINIUMS

400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

ENLARGED UNIT PLANS - ELECTRICAL

PROJECT NO.: 13270.99

E304

Skyview
Unit '#7' Load Calculation
Per NEC 220.82

General Lighting		@			
Sq. Footage	1324	3	Watts/Sq. Ft.	3,972	Watts
Sm. Appliance Ckt.	2	1,500	Watts	3,000	Watts
Dishwasher	1	1,200	Watts	1,200	Watts
Disposal	1	750	Watts	750	Watts
Dryer	1	5,000	Watts	5,000	Watts
Refrigerator	1	800	Watts	800	Watts
Range	1	8,000	Watts	8,000	Watts
Water Heater	1	4,500	Watts	4,500	Watts
Washer	1	1,500	Watts	1,500	Watts
Other	0	0	Watts	0	Watts
Other	0	0	Watts	0	Watts
			Total	28,722	Watts
First	10,000	Watts @ 100%		10,000	Watts
Remainder	18,722	Watts @ 40%		7,489	Watts
			Sub-Total	17,489	Watts
A/C Load	>	A/C Load Per NEC 220.82			
WSHP-D		3,619	Watts @ 100%	3,619	Watts
			Sub-Total	3,619	Watts
			Total Connected Load W/Demand	21,108	Watts
			@	208	Volts
				101.48	Amps
			Unit Main Breaker and Feeders to be	150	Amp Rated
			Total Connected Load W/O Demand	32,341	Watts

Neutral Conductor to be sized at 100%

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
UNIT 7	UNIT 7		150	1	MLO	30	Flush	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #D	10	30	2	1.809	2.250			2	30	10	EWH	6
7	"	"	"	"			1.809	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.157			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	12	20	1			1.157	1.157	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
					KW No Demand		17.27		16.07			KW No Demand	

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
UNIT 8	UNIT 8		150	1	MLO	30	Flush	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #C	12	20	2	1.216	2.250			2	30	10	EWH	6
7	"	"	"	"			1.216	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.349			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Space							1.349	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
					KW No Demand		16.87		14.52			KW No Demand	

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

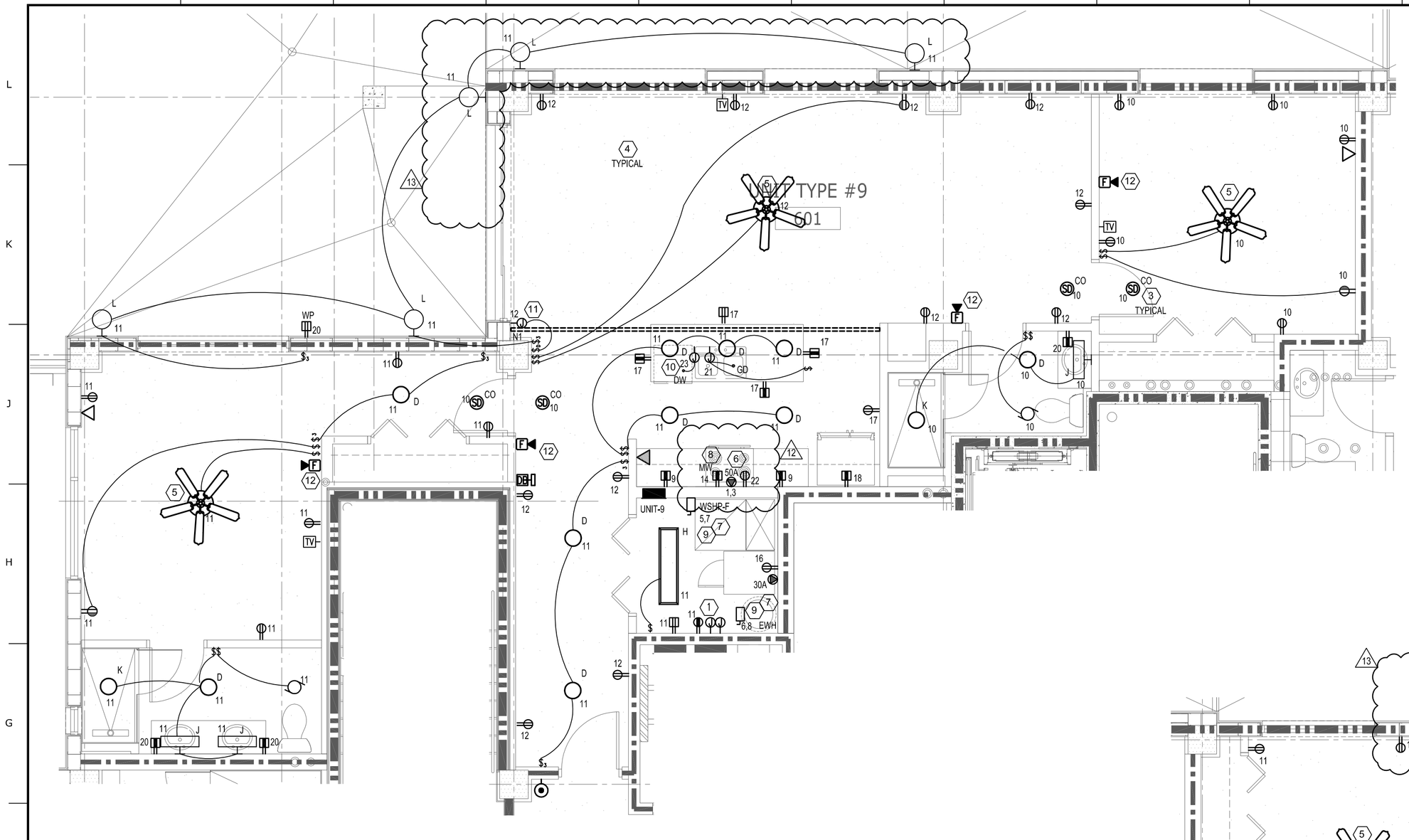
Skyview
Unit '#8' Load Calculation
Per NEC 220.82

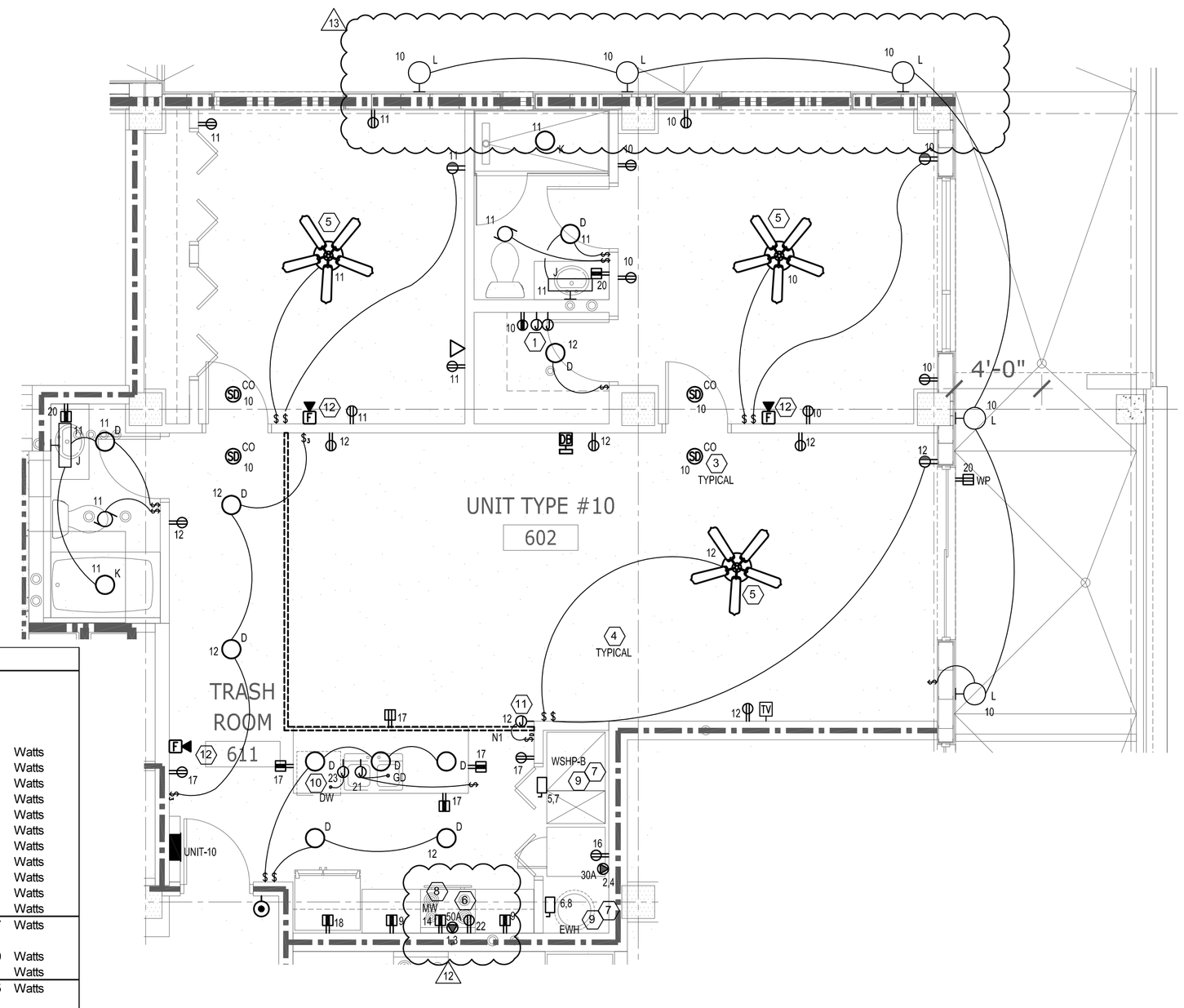
General Lighting		@			
Sq. Footage	1066	3	Watts/Sq. Ft.	3,198	Watts
Sm. Appliance Ckt.	2	1,500	Watts	3,000	Watts
Dishwasher	1	1,200	Watts	1,200	Watts
Disposal	1	750	Watts	750	Watts
Dryer	1	5,000	Watts	5,000	Watts
Refrigerator	1	800	Watts	800	Watts
Range	1	8,000	Watts	8,000	Watts
Water Heater	1	4,500	Watts	4,500	Watts
Washer	1	1,500	Watts	1,500	Watts
Other	0	0	Watts	0	Watts
Other	0	0	Watts	0	Watts
			Total	27,948	Watts
First	10,000	Watts @ 100%		10,000	Watts
Remainder	17,948	Watts @ 40%		7,179	Watts
			Sub-Total	17,179	Watts
A/C Load	>	A/C Load Per NEC 220.82			
WSHP-C		2,433	Watts @ 100%	2,433	Watts
			Sub-Total	2,433	Watts
			Total Connected Load W/Demand	19,612	Watts
			@	208	Volts
				94.29	Amps
			Unit Main Breaker and Feeders to be	100	Amp Rated
			Total Connected Load W/O Demand	30,381	Watts

Neutral Conductor to be sized at 100%

1 ENLARGED ELECTRICAL PLAN - UNIT 7 1/4" = 1'-0"

2 ENLARGED ELECTRICAL PLAN - UNIT 8 1/4" = 1'-0"





Skyview
Unit '#9' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	1287	3	Watts/Sq. Ft.		3,861	Watts
Sm. Appliance Ckt.	2	1,500	Watts		3,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	1	750	Watts		750	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	1	800	Watts		800	Watts
Range	1	8,000	Watts		8,000	Watts
Water Heater	1	4,500	Watts		4,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	28,611	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	18,611	Watts @	40%		7,444	Watts
				Sub-Total	17,444	Watts
A/C Load	>	A/C Load	Per NEC 220.82			
WSHP-D		3,619	Watts @ 100%		3,619	Watts
				Sub-Total	3,619	Watts
				Total Connected Load W/Demand	21,063	Watts
				@	208	Volts
					101.27	Amps
				Unit Main Breaker and Feeders to be	150	Amp Rated
				Total Connected Load W/O Demand	32,230	Watts

Neutral Conductor to be sized at 100%

KEY NOTES: (#)

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
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1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE '2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
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1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Nedim Mujbegovic, PE
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THE SKYVIEW CONDOMINIUMS
400 CLEVELAND, LLC.
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CLEARWATER, FLORIDA 33755

ENLARGED UNIT PLANS - ELECTRICAL

PROJECT NO.: 13270.99

E305

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
UNIT 9	UNIT 9		150	1	MLO	30	Flush	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #D	10	30	2	1.809	2.250			2	30	10	EWH	6
7	"	"	"	"			1.809	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.120			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	12	20	1			1.120	1.120	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
			KW No Demand		17.23		16.00		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
UNIT 10	UNIT 10		150	1	MLO	30	Flush	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #B	12	15	2	0.956	2.250			2	30	10	EWH	6
7	"	"	"	"			0.956	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.062			1	20	12	Microwave	10
11	Gen. Ltg. & Recept(s) (*)	12	20	1			1.062	1.062	1	20	12	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
			KW No Demand		16.32		15.03		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

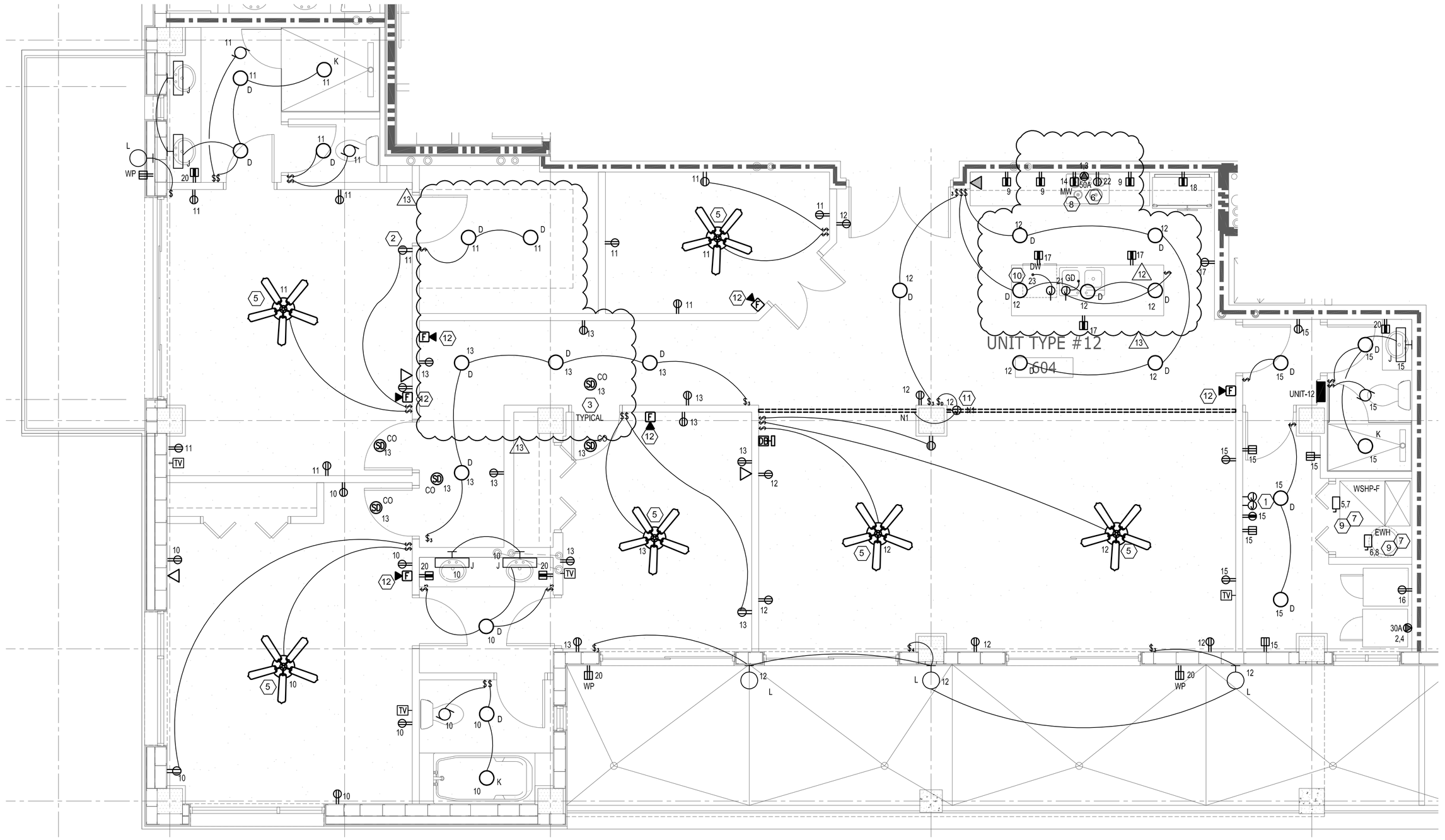
Skyview
Unit '#10' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	1229	3	Watts/Sq. Ft.		3,687	Watts
Sm. Appliance Ckt.	2	1,500	Watts		3,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	1	750	Watts		750	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	1	800	Watts		800	Watts
Range	1	8,000	Watts		8,000	Watts
Water Heater	1	4,500	Watts		4,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	28,437	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	18,437	Watts @	40%		7,375	Watts
				Sub-Total	17,375	Watts
A/C Load	>	A/C Load	Per NEC 220.82			
WSHP-B		1,913	Watts @ 100%		1,913	Watts
				Sub-Total	1,913	Watts
				Total Connected Load W/Demand	19,288	Watts
				@	208	Volts
					92.73	Amps
				Unit Main Breaker and Feeders to be	100	Amp Rated
				Total Connected Load W/O Demand	30,350	Watts

Neutral Conductor to be sized at 100%

1 **ENLARGED ELECTRICAL PLAN - UNIT 9** — 1/4" = 1'-0"

2 **ENLARGED ELECTRICAL PLAN - UNIT 10** — 1/4" = 1'-0"



KEY NOTES: (#)

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
6. PROVIDE MATCHING RECEPTACLES (NEMA CONFIGURATION) FOR KITCHEN RANGES AND CLOTHES DRYERS. ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT VOLTAGE AND POWER REQUIREMENTS. IF THEY VARY FROM RATINGS SHOWN ON PANEL SCHEDULE, MODIFY FEEDER PER N.E.C.
7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
8. PROVIDE POWER CONNECTIONS FOR RANGE HOOD IN CABINET ABOVE COOKTOP. COORDINATE ALL INSTALLATION REQUIREMENTS W/ CABINET INSTALLER AND OWNER PRIOR TO ROUGH-IN.
9. PROVIDE BREAKERS WITH LOCK-OUT DEVICE. AS AN ALTERNATE, A LOCAL DISCONNECT (SWITCH OR PULLOUT) MAY BE SUBSTITUTED.
10. COORDINATE THE DISHWASHER CONNECTION WITH THE APPLIANCE INSTALLER/SUPPLIER.
11. PROVIDE LED DRIVER LOCATED AT ACCESSIBLE COVE LOCATION. COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
12. PROVIDE FIRE ALARM SPEAKER ONLY DEVICES WITHIN THE RESIDENTIAL UNITS AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE MEANS FOR FUTURE RETROFIT OF SPEAKER ONLY DEVICES TO SPEAKER STROBE DEVICES.

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE '2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
4. PROVIDE CABLE AND TELEPHONE LOW-VOLTAGE CABLES FROM EACH OUTLET TO DISTRIBUTION BOX (SEE SHEET NOTE 5). COORDINATE REQUIREMENTS WITH ARCHITEC/OWNER PRIOR TO ANY ROUGH-IN.
5. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM.
6. ALL MECHANICAL EQUIPMENT POWER CONNECTIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS DURING THE DESIGN PROCESS. THE MECHANICAL/GENERAL CONTRACTOR, SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE ELECTRICAL EQUIPMENT, DUE TO ACCEPTANCE OF APPROVED EQUAL OR SUBSTITUTIONS OF ANY MECHANICAL EQUIPMENT.
7. STARTERS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED, AND CONNECTED TO THE LINE VOLTAGE BY THE ELECTRICAL CONTRACTOR. ALL FACTORY INSTALLED STARTERS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATION (I.E. UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
9. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE. DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
10. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
UNIT 12	UNIT 12		150	1	MLO	30	Flush	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #F	8	35	2	2.090	2.250			2	30	10	EWH	6
7	"	"	"	"			2.090	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.280			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	14	15	1			1.280	1.280	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Gen. Ltg. & Recept(s) (*)	14	15	1	1.280	1.000			1	20	12	Microwave	14
15	Gen. Ltg. & Recept(s) (*)	14	15	1			1.280	1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
		KW No Demand			18.95		17.88		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Skyview

Unit '#12' Load Calculation

Per NEC 220.82

General Lighting		@			
Sq. Footage	2300	3	Watts/Sq. Ft.	6,900	Watts
Sm. Appliance Ckt.	2	1,500	Watts	3,000	Watts
Dishwasher	1	1,200	Watts	1,200	Watts
Disposal	1	750	Watts	750	Watts
Dryer	1	5,000	Watts	5,000	Watts
Refrigerator	1	800	Watts	800	Watts
Range	1	8,000	Watts	8,000	Watts
Water Heater	1	4,500	Watts	4,500	Watts
Washer	1	1,500	Watts	1,500	Watts
Other	0	0	Watts	0	Watts
Other	0	0	Watts	0	Watts
			Total	31,650	Watts
First	10,000	Watts @	100%	10,000	Watts
Remainder	21,650	Watts @	40%	8,660	Watts
			Sub-Total	18,660	Watts
A/C Load >	A/C Load	Per NEC 220.82			
WSHP-F	4,180	Watts @	100%	4,180	Watts
			Sub-Total	4,180	Watts
			Total Connected Load W/Demand	22,840	Watts
			@	208	Volts
				109.81	Amps
			Unit Main Breaker and Feeders to be	150	Amp Rated
			Total Connected Load W/O Demand	35,830	Watts

Neutral Conductor to be sized at 100%

1 **ENLARGED ELECTRICAL PLAN - UNIT 12**

1/4" = 1'-0"

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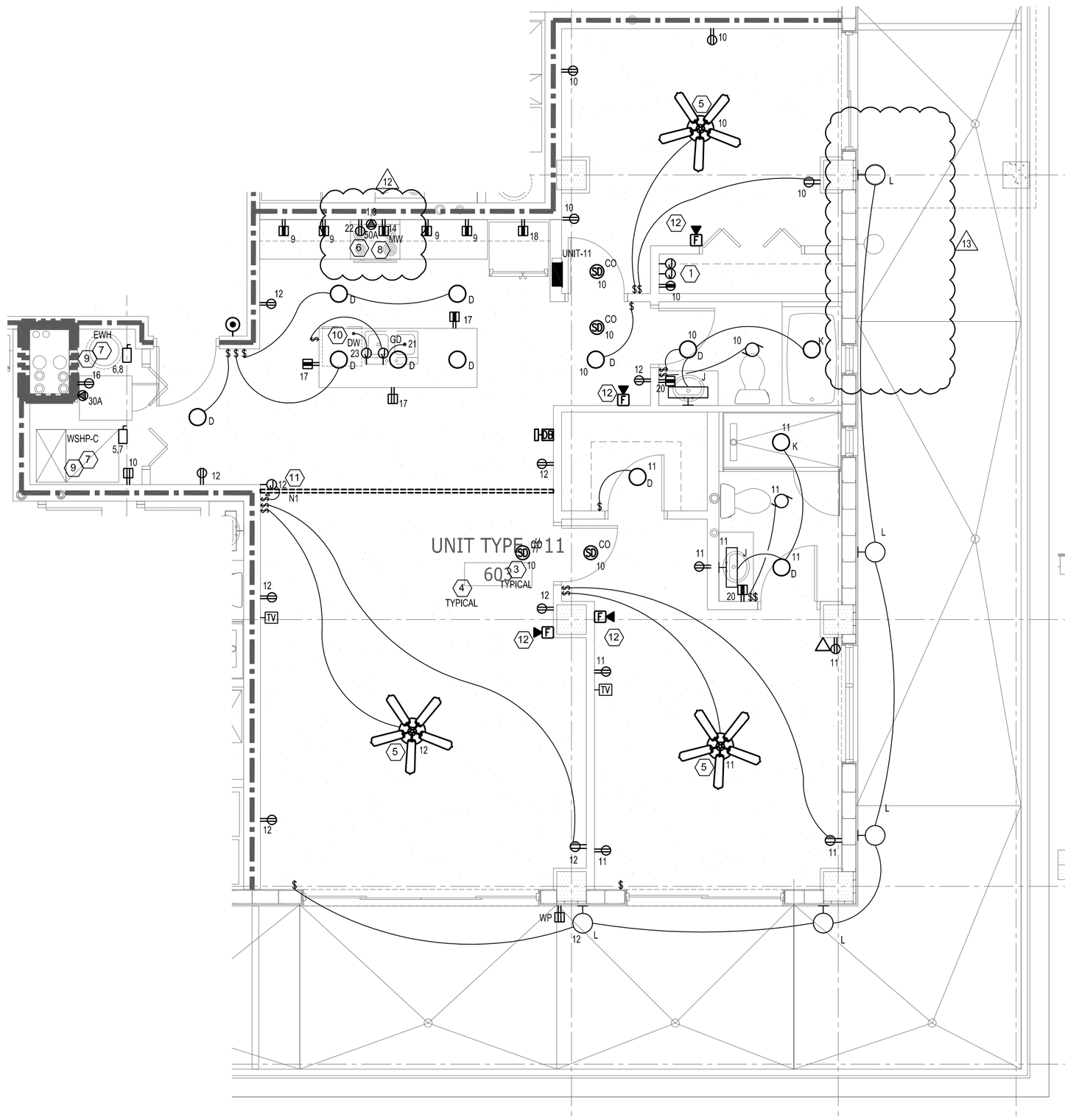
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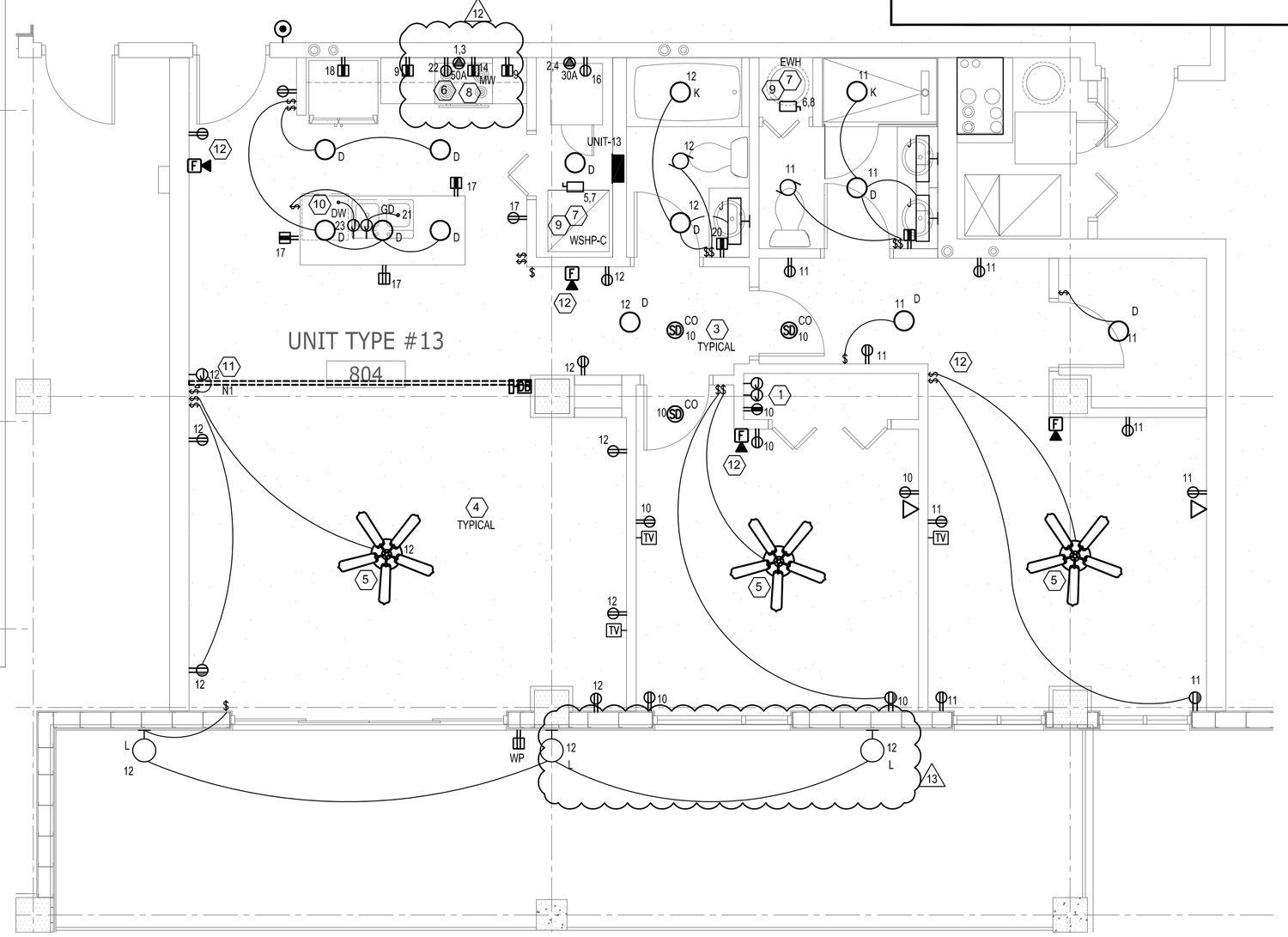
400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

ENLARGED UNIT PLANS - ELECTRICAL

PROJECT NO.: 13270.99

E306





Skyview
Unit '#11' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	1215	3	Watts/Sq. Ft.		3,645	Watts
Sm. Appliance Ckt.	2	1,500	Watts		3,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	1	750	Watts		750	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	1	800	Watts		800	Watts
Range	1	8,000	Watts		8,000	Watts
Water Heater	1	4,500	Watts		4,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	28,395	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	18,395	Watts @	40%		7,358	Watts
				Sub-Total	17,358	Watts
A/C Load	>	A/C Load Per NEC 220.82				
WSHP-C		2,433	Watts @ 100%		2,433	Watts
				Sub-Total	2,433	Watts
			Total Connected Load W/Demand		19,791	Watts
				@	208	Volts
					95.15	Amps
			Unit Main Breaker and Feeders to be		100	Amp Rated
			Total Connected Load W/O Demand		30,828	Watts

Neutral Conductor to be sized at 100%

Label	Designation	AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 11	UNIT 11	150	1	MLO	30	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #C	12	20	2	1.216	2.250			2	30	10	EWH	6
7	"	"	"	"			1.216	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.048			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	12	20	1			1.048	1.048	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
		KW No Demand			16.56		15.26		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Skyview
Unit '#13' Load Calculation
Per NEC 220.82

General Lighting		@				
Sq. Footage	1155	3	Watts/Sq. Ft.		3,465	Watts
Sm. Appliance Ckt.	2	1,500	Watts		3,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	1	750	Watts		750	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	1	800	Watts		800	Watts
Range	1	8,000	Watts		8,000	Watts
Water Heater	1	4,500	Watts		4,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	28,215	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	18,215	Watts @	40%		7,286	Watts
				Sub-Total	17,286	Watts
A/C Load	>	A/C Load Per NEC 220.82				
WSHP-C		2,433	Watts @ 100%		2,433	Watts
				Sub-Total	2,433	Watts
			Total Connected Load W/Demand		19,719	Watts
				@	208	Volts
					94.80	Amps
			Unit Main Breaker and Feeders to be		100	Amp Rated
			Total Connected Load W/O Demand		30,648	Watts

Neutral Conductor to be sized at 100%

Label	Designation	AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 13	UNIT 13	150	1	MLO	30	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #C	12	20	2	1.216	2.250			2	30	10	EWH	6
7	"	"	"	"			1.216	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	0.983			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	12	20	1			0.983	0.983	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Space					1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
		KW No Demand			16.50		15.13		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

KEY NOTES: (#)

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
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7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
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9. PROVIDE BREAKERS WITH LOCK-OUT DEVICE. AS AN ALTERNATE, A LOCAL DISCONNECT (SWITCH OR PULLOUT) MAY BE SUBSTITUTED.
10. COORDINATE THE DISHWASHER CONNECTION WITH THE APPLIANCE INSTALLER/SUPPLIER.
11. PROVIDE LED DRIVER LOCATED AT ACCESSIBLE COVE LOCATION. COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
12. PROVIDE FIRE ALARM SPEAKER ONLY DEVICES WITHIN THE RESIDENTIAL UNITS AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE MEANS FOR FUTURE RETROFIT OF SPEAKER ONLY DEVICES TO SPEAKER STROBE DEVICES.

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
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8. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATION (I.E. UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
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No.	Date	Revisions / Submissions	D.	CK.
13	02/22/2016	PERMIT REVISIONS		
12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
2	03/16/2015	PERMIT REVIEW COMMENTS		
1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Nedim Mujbegovic, PE
PE#74728

NEDIM MUJBEGOVIC LICENSE No. 74728 STATE OF FLORIDA PROFESSIONAL ENGINEER

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THE SKYVIEW CONDOMINIUMS
400 CLEVELAND, LLC.
400 CLEVELAND STREET
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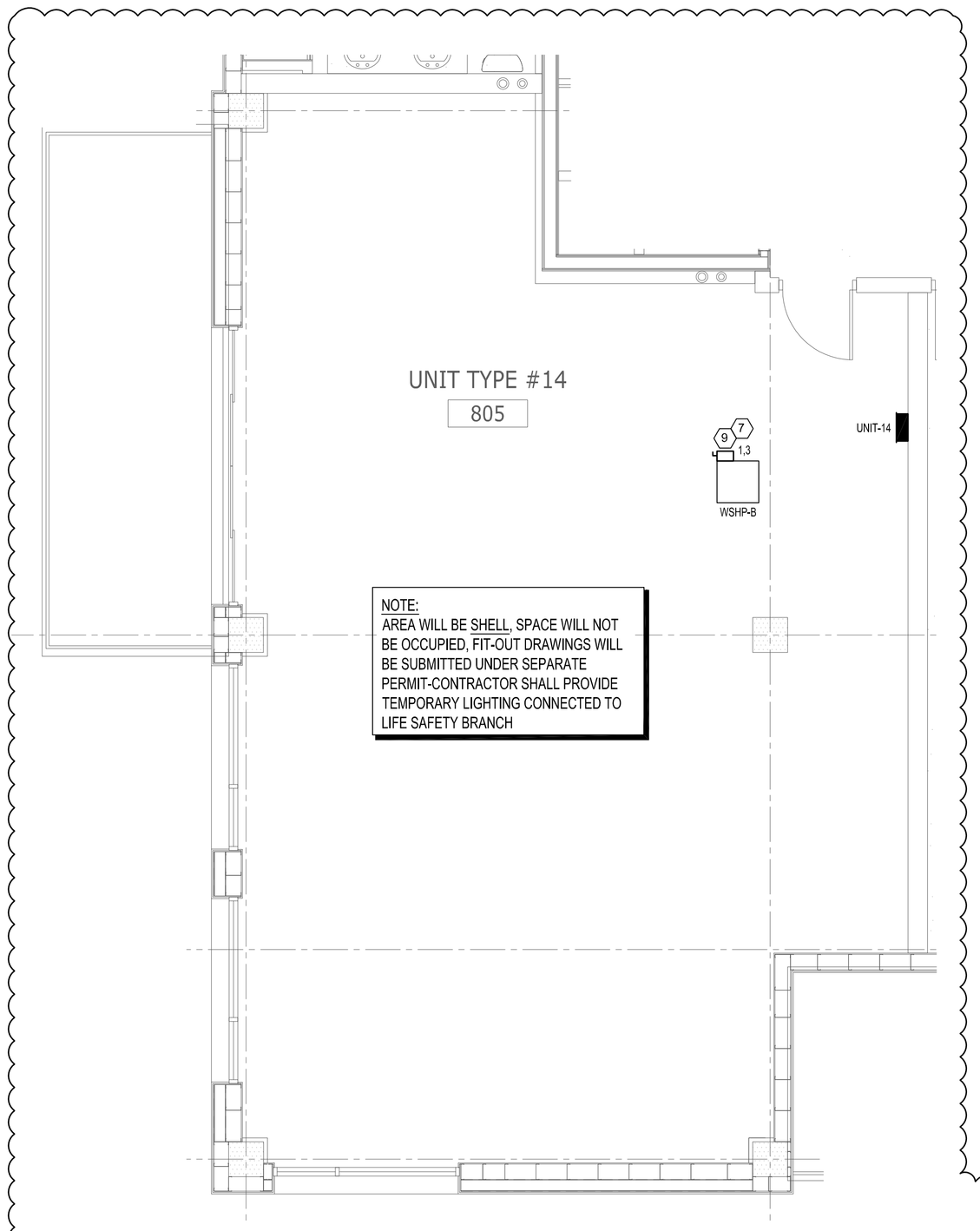
ENLARGED UNIT PLANS - ELECTRICAL

PROJECT NO.: 13270.99

E307

1 ENLARGED ELECTRICAL PLAN - UNIT 11
1/4" = 1'-0"

2 ENLARGED ELECTRICAL PLAN - UNIT 13
1/4" = 1'-0"



Skyview

Unit '#14' Load Calculation

Per NEC 220.82

General Lighting		@			
Sq. Footage	1119	3	Watts/Sq. Ft.	3,357	Watts
Sm. Appliance Ckt.	2	1,500	Watts	3,000	Watts
Dishwasher	1	1,200	Watts	1,200	Watts
Disposal	1	750	Watts	750	Watts
Dryer	1	5,000	Watts	5,000	Watts
Refrigerator	1	800	Watts	800	Watts
Range	1	8,000	Watts	8,000	Watts
Water Heater	1	4,500	Watts	4,500	Watts
Washer	1	1,500	Watts	1,500	Watts
Other	0	0	Watts	0	Watts
Other	0	0	Watts	0	Watts
			Total	28,107	Watts
First	10,000	Watts @	100%	10,000	Watts
Remainder	18,107	Watts @	40%	7,243	Watts
			Sub-Total	17,243	Watts
A/C Load	>	A/C Load Per NEC 220.82			
WSHP-B		1,913	Watts @ 100%	1,913	Watts
			Sub-Total	1,913	Watts
			Total Connected Load W/Demand	19,156	Watts
			@	208	Volts
				92.10	Amps
			Unit Main Breaker and Feeders to be	100	Amp Rated
			Total Connected Load W/O Demand	30,020	Watts

Load is estimated, space will be permitted separately

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
UNIT 14	UNIT 14		150	1	MLO	30	Flush	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	WSHP #B	12	15	2	0.956							Space	2
3	"	"	"	"			0.956					Space	4
5	Space											Space	6
7	Space											Space	8
9	Space											Space	10
11	Space											Space	12
13	Space											Space	14
15	Space											Space	16
17	Space											Space	18
19	Space											Space	20
21	Space											Space	22
23	Space											Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
		KW No Demand			0.96		0.96		KW No Demand				

12

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE '2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
4. PROVIDE CABLE AND TELEPHONE LOW-VOLTAGE CABLES FROM EACH OUTLET TO DISTRIBUTION BOX (SEE SHEET NOTE 5). COORDINATE REQUIREMENTS WITH ARCHITEC/OWNER PRIOR TO ANY ROUGH-IN.
5. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM.
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	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

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THE SKYVIEW CONDOMINIUMS

400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

ENLARGED UNIT PLANS - ELECTRICAL

PROJECT NO.: 13270.99

E308

1 ENLARGED ELECTRICAL PLAN - UNIT 14

1/4" = 1'-0"

Skyview

Unit '#15' Load Calculation

Per NEC 220.82

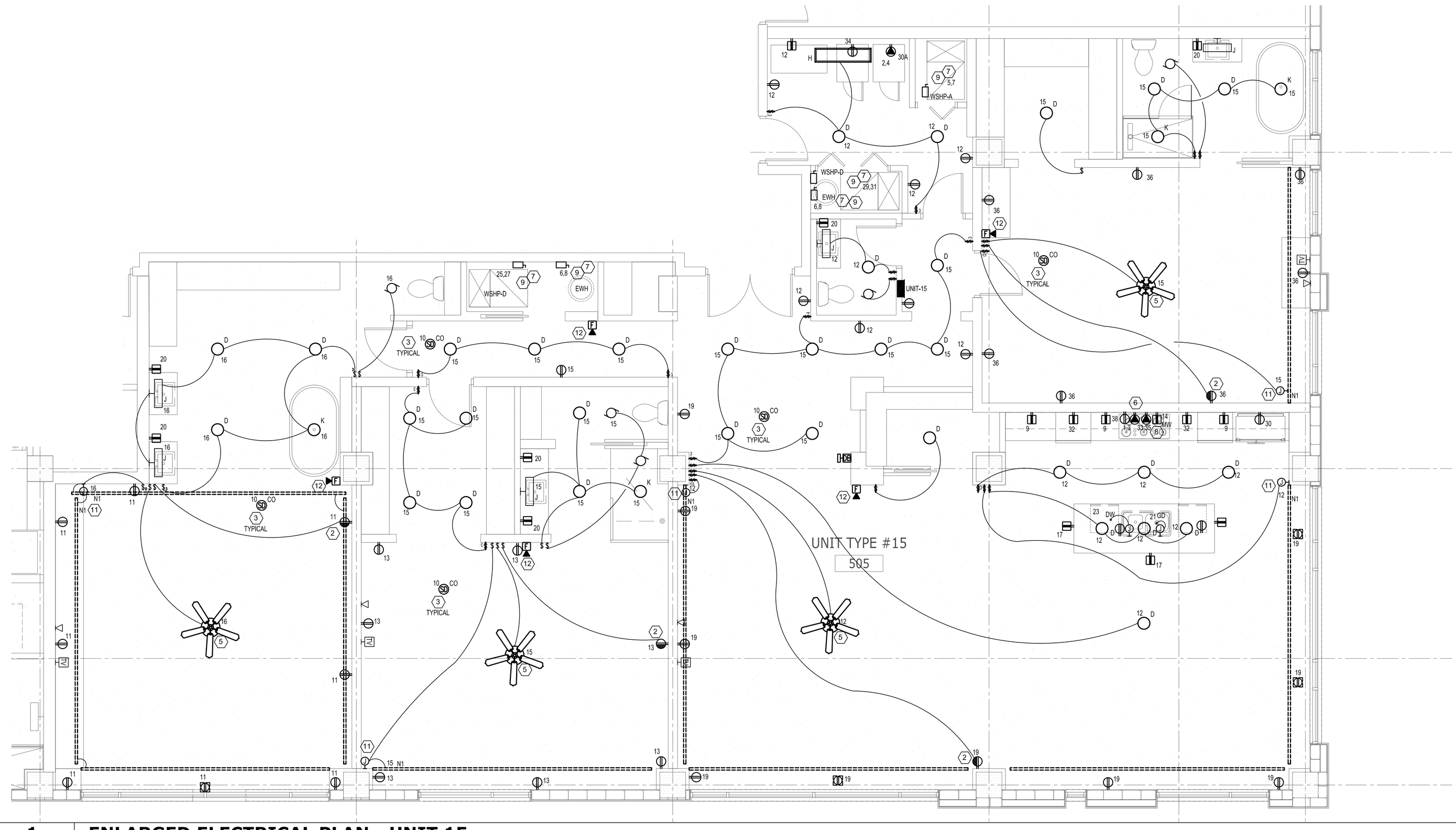
General Lighting		@				
Sq. Footage	3818	3	Watts/Sq. Ft.		11,454	Watts
Sm. Appliance Ckt.	4	1,500	Watts		6,000	Watts
Dishwasher	1	1,200	Watts		1,200	Watts
Disposal	2	750	Watts		1,500	Watts
Dryer	1	5,000	Watts		5,000	Watts
Refrigerator	2	800	Watts		1,600	Watts
Range	2	8,000	Watts		16,000	Watts
Water Heater	3	4,500	Watts		13,500	Watts
Washer	1	1,500	Watts		1,500	Watts
Other	0	0	Watts		0	Watts
Other	0	0	Watts		0	Watts
				Total	57,754	Watts
First	10,000	Watts @	100%		10,000	Watts
Remainder	47,754	Watts @	40%		19,102	Watts
				Sub-Total	29,102	Watts
A/C Load	>	A/C Load	Per NEC 220.82			
WSHP-A		1,726	Watts @ 100%		1,726	Watts
WSHP-D		3,619	Watts @ 100%		3,619	Watts
WSHP-D		3,619	Watts @ 100%		3,619	Watts
				Sub-Total	8,964	Watts
				Total Connected Load W/Demand	38,066	Watts
				@	208	Volts
					183.01	Amps
				Unit Main Breaker and Feeders to be	200	Amp Rated
				Total Connected Load W/O Demand	66,718	Watts

Neutral Conductor to be sized at 100%

Label	Designation	AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage		STYLE	A.I.C.
UNIT 15	UNIT 15	200	1	MLO	42	Flush	1	120	208	Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #A	12	15	2	0.863	2.250			2	30	10	EWH	6
7	"	"	"	"			0.863	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.369			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	14	15	1			1.369	1.369	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Gen. Ltg. & Recept(s) (*)	14	15	1	1.369	1.000			1	20	12	Microwave	14
15	Gen. Ltg. & Recept(s) (*)	14	15	1			1.369	1.369	1	15	14	Gen. Ltg. & Recept(s) (*)	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Gen. Ltg. & Recept(s) (*)	14	15	1			1.369	0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750	2.250			2	30	10	EWH	22
23	Dishwasher (**)	12	20	1			1.200	2.250	"	"	"	"	24
25	WSHP #D	10	30	2	1.809	2.250			2	30	10	EWH	26
27	"	"	"	"			1.809	2.250	"	"	"	"	28
29	WSHP #D	10	30	2	1.809	0.800			1	20	12	Refrigerator	30
31	"	"	"	"			1.809	1.500	1	20	12	Kitchen CT Recept(s)	32
33	Range	6	50	2	4.000	1.500			1	20	12	Washer	34
35	"	"	"	"			4.000	1.369	1	15	14	Gen. Ltg. & Recept(s) (*)	36
37	Space								1	20	12	Range (Gas if Applicable)	38
39	Space											Space	40
41	Space											Space	42
		KW No Demand			32.32		33.15		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.



1 ENLARGED ELECTRICAL PLAN - UNIT 15

1/4" = 1'-0"

KEY NOTES:

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
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7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
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9. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE. DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
10. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BAKER BARRIOS ARCHITECTS, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BAKER BARRIOS ARCHITECTS, INC. WARNING: REPRODUCTION HEREOF IS A CRIMINAL OFFENSE UNDER 18 U.S.C. SEC. 506 UNAUTHORIZED DISCLOSURE MAY CONSTITUTE TRADE SECRET MISAPPROPRIATION IN VIOLATION OF 1.C.24-2-31-1 ET. SEQ. AND OTHER LAWS. THE IDEAS, ARRANGEMENTS AND DESIGNS DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT AND / OR COPYRIGHT APPLICATION.

No.	Date	Revisions / Submissions	D.	CK.
12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
2	03/16/2015	PERMIT REVIEW COMMENTS		
1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Nedim Mujbegovic, PE
PE#74728

NEDIM MUJBEGOVIC LICENSE No. 74728 STATE OF FLORIDA PROFESSIONAL ENGINEER

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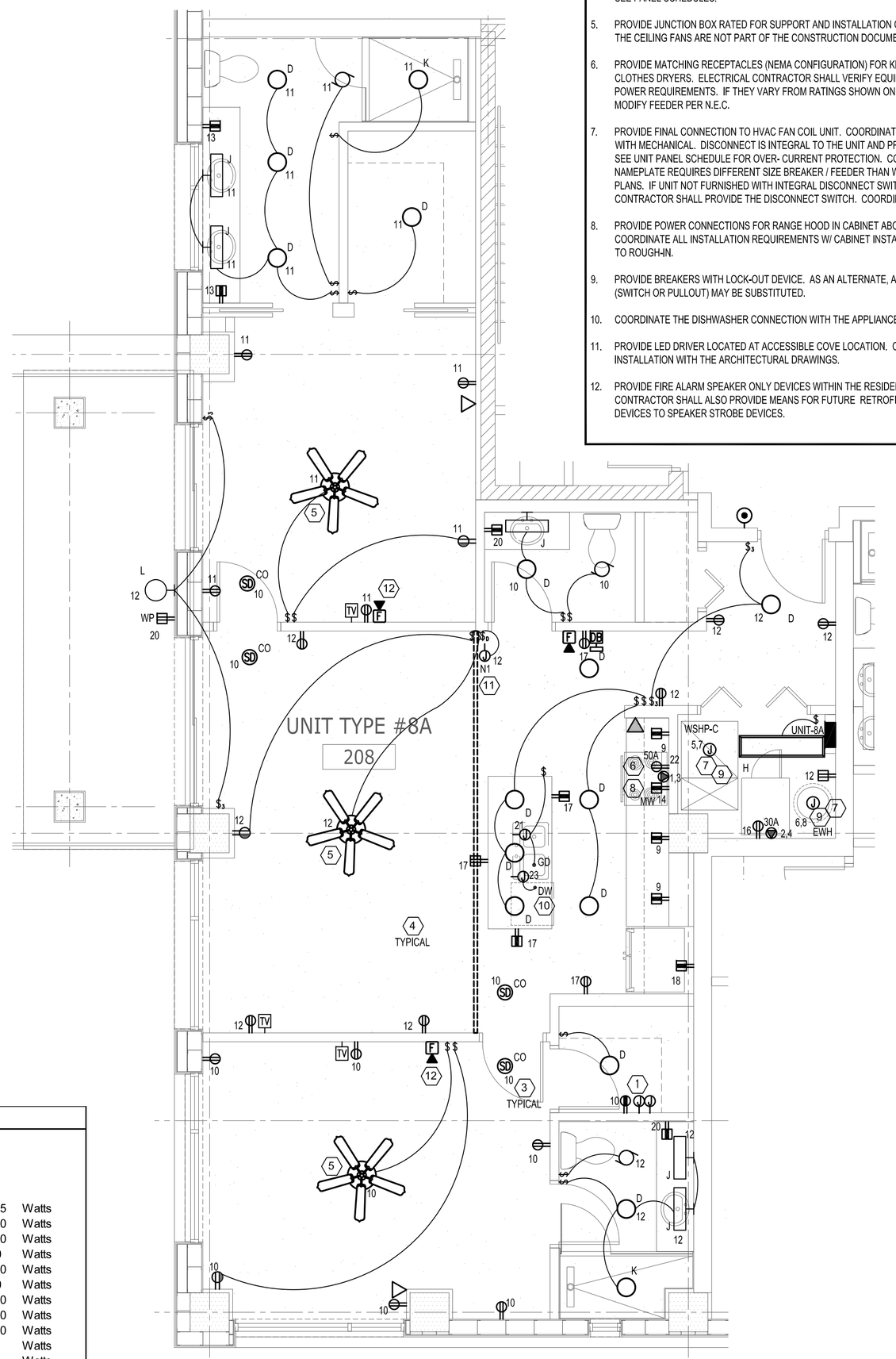
THE SKYVIEW CONDOMINIUMS

400 CLEVELAND, LLC.
400 CLEVELAND STREET
CLEARWATER, FLORIDA 33755

ENLARGED UNIT PLANS - ELECTRICAL

PROJECT NO.: 13270.99

E309



KEY NOTES:

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
6. PROVIDE MATCHING RECEPTACLES (NEMA CONFIGURATION) FOR KITCHEN RANGES AND CLOTHES DRYERS. ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT VOLTAGE AND POWER REQUIREMENTS. IF THEY VARY FROM RATINGS SHOWN ON PANEL SCHEDULE, MODIFY FEEDER PER N.E.C.
7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
8. PROVIDE POWER CONNECTIONS FOR RANGE HOOD IN CABINET ABOVE COOKTOP. COORDINATE ALL INSTALLATION REQUIREMENTS W/ CABINET INSTALLER AND OWNER PRIOR TO ROUGH-IN.
9. PROVIDE BREAKERS WITH LOCK-OUT DEVICE. AS AN ALTERNATE, A LOCAL DISCONNECT (SWITCH OR PULLOUT) MAY BE SUBSTITUTED.
10. COORDINATE THE DISHWASHER CONNECTION WITH THE APPLIANCE INSTALLER/SUPPLIER.
11. PROVIDE LED DRIVER LOCATED AT ACCESSIBLE COVE LOCATION. COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
12. PROVIDE FIRE ALARM SPEAKER ONLY DEVICES WITHIN THE RESIDENTIAL UNITS AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE MEANS FOR FUTURE RETROFIT OF SPEAKER ONLY DEVICES TO SPEAKER STROBE DEVICES.

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE '2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
4. PROVIDE CABLE AND TELEPHONE LOW-VOLTAGE CABLES FROM EACH OUTLET TO DISTRIBUTION BOX (SEE SHEET NOTE 5). COORDINATE REQUIREMENTS WITH ARCHITEC/OWNER PRIOR TO ANY ROUGH-IN.
5. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM.
6. ALL MECHANICAL EQUIPMENT POWER CONNECTIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS DURING THE DESIGN PROCESS. THE MECHANICAL/GENERAL CONTRACTOR, SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE ELECTRICAL EQUIPMENT, DUE TO ACCEPTANCE OF APPROVED EQUAL OR SUBSTITUTIONS OF ANY MECHANICAL EQUIPMENT.
7. STARTERS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED, AND CONNECTED TO THE LINE VOLTAGE BY THE ELECTRICAL CONTRACTOR. ALL FACTORY INSTALLED STARTERS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATION (I.E. UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
9. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE. DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
10. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
UNIT 8A	UNIT 8A		150	1	MLO	30	Flush	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"	"			4.000	2.500	"	"	"	"	4
5	WSHP #C	12	20	2	1.216	2.250			2	30	10	EWH	6
7	"	"	"	"			1.216	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.088			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	14	15	1			1.088	1.088	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Bathroom Recept(s)	12	20	1	0.250	1.000			1	20	12	Microwave	14
15	Space							1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200					Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
			KW No Demand		16.85		15.34		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

Skyview

Unit '#8A' Load Calculation

Per NEC 220.82

General Lighting		@			
Sq. Footage	1255	3	Watts/Sq. Ft.	3,765	Watts
Sm. Appliance Ckt.	2	1,500	Watts	3,000	Watts
Dishwasher	1	1,200	Watts	1,200	Watts
Disposal	1	750	Watts	750	Watts
Dryer	1	5,000	Watts	5,000	Watts
Refrigerator	1	800	Watts	800	Watts
Range	1	8,000	Watts	8,000	Watts
Water Heater	1	4,500	Watts	4,500	Watts
Washer	1	1,500	Watts	1,500	Watts
Other	0	0	Watts	0	Watts
Other	0	0	Watts	0	Watts
			Total	28,515	Watts
First	10,000	Watts @	100%	10,000	Watts
Remainder	18,515	Watts @	40%	7,406	Watts
			Sub-Total	17,406	Watts
A/C Load >	A/C Load	Per NEC 220.82			
WSHP-C	2,433	Watts @ 100%		2,433	Watts
			Sub-Total	2,433	Watts
			Total Connected Load W/Demand	19,839	Watts
			@	208	Volts
				95.38	Amps
			Unit Main Breaker and Feeders to be	100	Amp Rated
			Total Connected Load W/O Demand	30,948	Watts

Neutral Conductor to be sized at 100%

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12	10/13/2015	PENTHOUSE REVISIONS		
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2	03/16/2015	PERMIT REVIEW COMMENTS		
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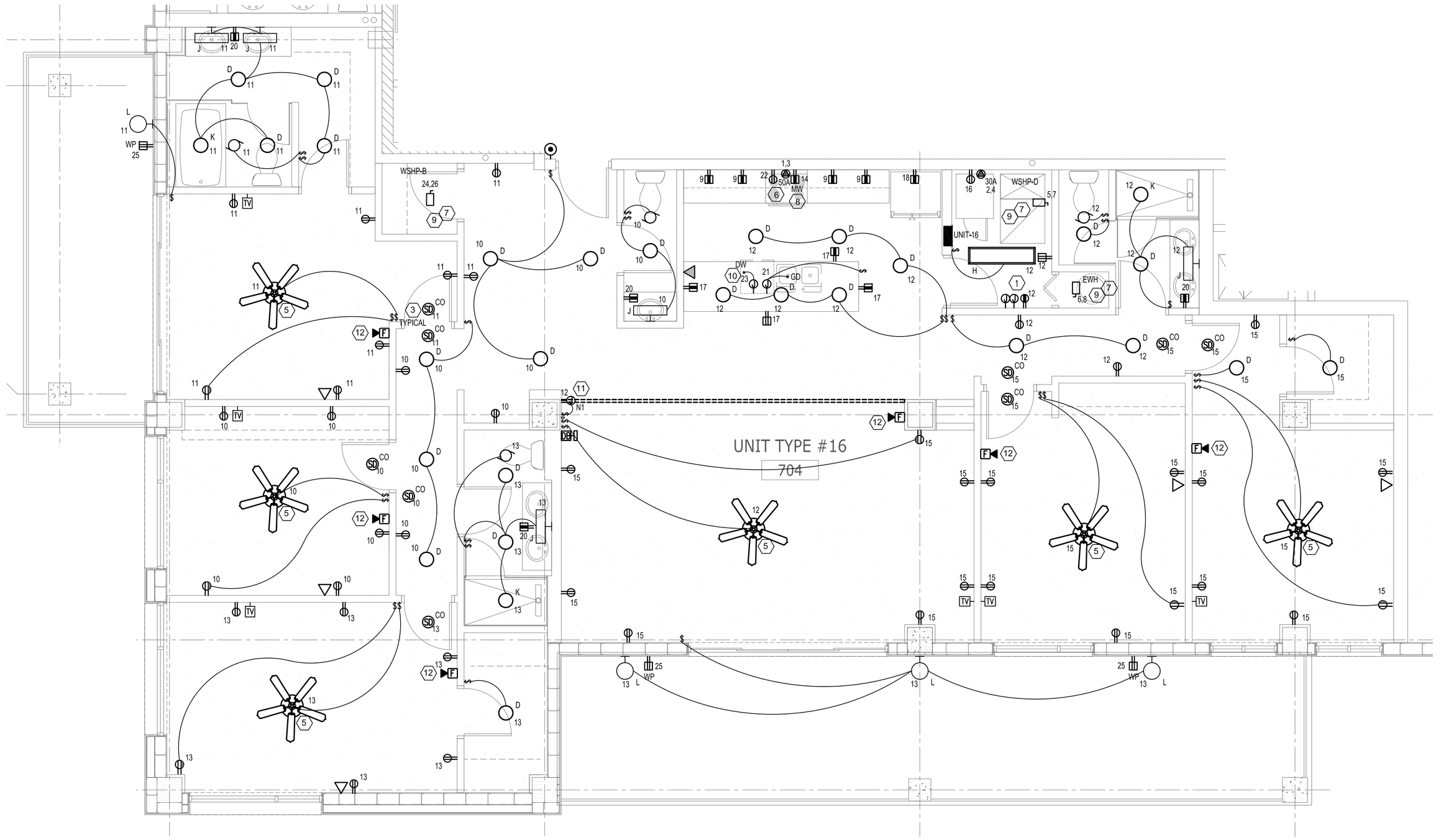
ENLARGED UNIT PLANS - ELECTRICAL

PROJECT NO.: 13270.99

E310

1 ENLARGED ELECTRICAL PLAN - UNIT 8A

1/4" = 1'-0"



KEY NOTES:

1. INDICATES LOCATION OF DISTRIBUTION BOXES FOR CENTRAL POINT OF TERMINATION FOR ALL TV AND TELEPHONE LOW-VOLTAGE CABLES. PROVIDE (1) 2-GANG TRIM RING FOR EACH PHONE AND T.V.
2. SWITCH SHALL CONTROL TOP OUTLET OF EACH DUPLEX RECEPTACLE AS INDICATED.
3. TYPICAL 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP. ALL SMOKE DETECTORS TO BE INTERCONNECTED FOR SIMULTANEOUS ALARM. MOUNT SMOKE DETECTORS ON THE FACE OF THE SOFFIT, 8" BELOW CEILING, (TOP OF DETECTOR, 4" MIN. 12" MAX.) U.O.N.
4. PROVIDE AN ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR UNIT RECEPTACLES OUTLETS. SEE PANEL SCHEDULES.
5. PROVIDE JUNCTION BOX RATED FOR SUPPORT AND INSTALLATION OF FUTURE CEILING FANS. THE CEILING FANS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS.
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7. PROVIDE FINAL CONNECTION TO HVAC FAN COIL UNIT. COORDINATE POWER REQUIREMENTS WITH MECHANICAL. DISCONNECT IS INTEGRAL TO THE UNIT AND PROVIDED BY MECHANICAL. SEE UNIT PANEL SCHEDULE FOR OVER- CURRENT PROTECTION. CONTACT ENGINEER IF UNIT NAMEPLATE REQUIRES DIFFERENT SIZE BREAKER / FEEDER THAN WHAT IS SHOWN ON THESE PLANS. IF UNIT NOT FURNISHED WITH INTEGRAL DISCONNECT SWITCH, ELECTRICAL CONTRACTOR SHALL PROVIDE THE DISCONNECT SWITCH. COORDINATE WITH MECHANICAL.
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10. COORDINATE THE DISHWASHER CONNECTION WITH THE APPLIANCE INSTALLER/SUPPLIER.
11. PROVIDE LED DRIVER LOCATED AT ACCESSIBLE COVE LOCATION. COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
12. PROVIDE FIRE ALARM SPEAKER ONLY DEVICES WITHIN THE RESIDENTIAL UNITS AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE MEANS FOR FUTURE RETROFIT OF SPEAKER ONLY DEVICES TO SPEAKER STROBE DEVICES.

GENERAL NOTES:

1. ALL DEVICES MOUNTED ABOVE COUNTERS SHALL BE AT 44" A.F.F. TO CENTER-LINE OF DEVICE, U.O.N., ALL WALL MOUNTED DEVICES SHALL BE MAXIMUM OF 48" AND MINIMUM OF 18" A.F.F., U.O.N..
2. PROVIDE FIRE CAULKING AT TOP AND BOTTOM PLATES.
3. DO NOT PENETRATE ANY 2-HOUR PARTITION WALLS BETWEEN BUILDINGS. ARCHITECT TO PROVIDE '2' FUR-OUT FOR ELECTRICAL WIRING INSIDE UNITS.
4. PROVIDE CABLE AND TELEPHONE LOW-VOLTAGE CABLES FROM EACH OUTLET TO DISTRIBUTION BOX (SEE SHEET NOTE 5). COORDINATE REQUIREMENTS WITH ARCHITEC/OWNER PRIOR TO ANY ROUGH-IN.
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10. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH/JUNCTION BOX, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE EQUIPMENT.

Skyview

Unit '#16' Load Calculation

Per NEC 220.82

General Lighting		@			
Sq. Footage	2300	3	Watts/Sq. Ft.	6,900	Watts
Sm. Appliance Ckt.	2	1,500	Watts	3,000	Watts
Dishwasher	1	1,200	Watts	1,200	Watts
Disposal	1	750	Watts	750	Watts
Dryer	1	5,000	Watts	5,000	Watts
Refrigerator	1	800	Watts	800	Watts
Range	1	8,000	Watts	8,000	Watts
Water Heater	1	4,500	Watts	4,500	Watts
Washer	1	1,500	Watts	1,500	Watts
Other	0	0	Watts	0	Watts
Other	0	0	Watts	0	Watts
			Total	31,650	Watts
First	10,000	Watts @	100%	10,000	Watts
Remainder	21,650	Watts @	40%	8,660	Watts
			Sub-Total	18,660	Watts
A/C Load	>	A/C Load	Per NEC 220.82		
WSHP-B		1,913	Watts @ 100%	1,913	Watts
WSHP-D		3,619	Watts @ 100%	3,619	Watts
			Sub-Total	5,532	Watts
			Total Connected Load W/Demand	24,192	Watts
			@	208	Volts
				116.31	Amps
			Unit Main Breaker and Feeders to be	150	Amp Rated
			Total Connected Load W/O Demand	37,182	Watts

Neutral Conductor to be sized at 100%

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
UNIT 16	UNIT 16		150	1	MLO	30	Flush	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	Range	6	50	2	4.000	2.500			2	30	10	Dryer	2
3	"	"	"				4.000	2.500	"	"	"	"	4
5	WSHP #D	10	30	2	1.809	2.250			2	30	10	EWH	6
7	"	"	"				1.809	2.250	"	"	"	"	8
9	Kitchen CT Recept(s)	12	20	1	1.500	1.280			1	15	14	Gen. Ltg. & Recept(s) (*)	10
11	Gen. Ltg. & Recept(s) (*)	14	15	1			1.280	1.280	1	15	14	Gen. Ltg. & Recept(s) (*)	12
13	Gen. Ltg. & Recept(s) (*)	14	15	1	1.280	1.000			1	20	12	Microwave	14
15	Gen. Ltg. & Recept(s) (*)	14	15	1			1.280	1.500	1	20	12	Washer	16
17	Kitchen Recept(s)	12	20	1	1.500	0.800			1	20	12	Refrigerator	18
19	Space							0.500	1	20	12	Bathroom Recept(s)	20
21	Disposal (**)	12	20	1	0.750				1	20	12	Range (Gas if Applicable)	22
23	Dishwasher (**)	12	20	1			1.200	0.956	2	15	12	WSHP #B	24
25	Exterior Recept(s)	12	20	1	0.500	0.956			"	"	"	"	26
27	Space											Space	28
29	Space											Space	30
			KW No Demand		20.13		18.56		KW No Demand				

(*) Provide arc fault circuit breaker for all outlets in residential units in accordance with NEC 210-12.
(**) Utilize Tie-handle with these two breakers.

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12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
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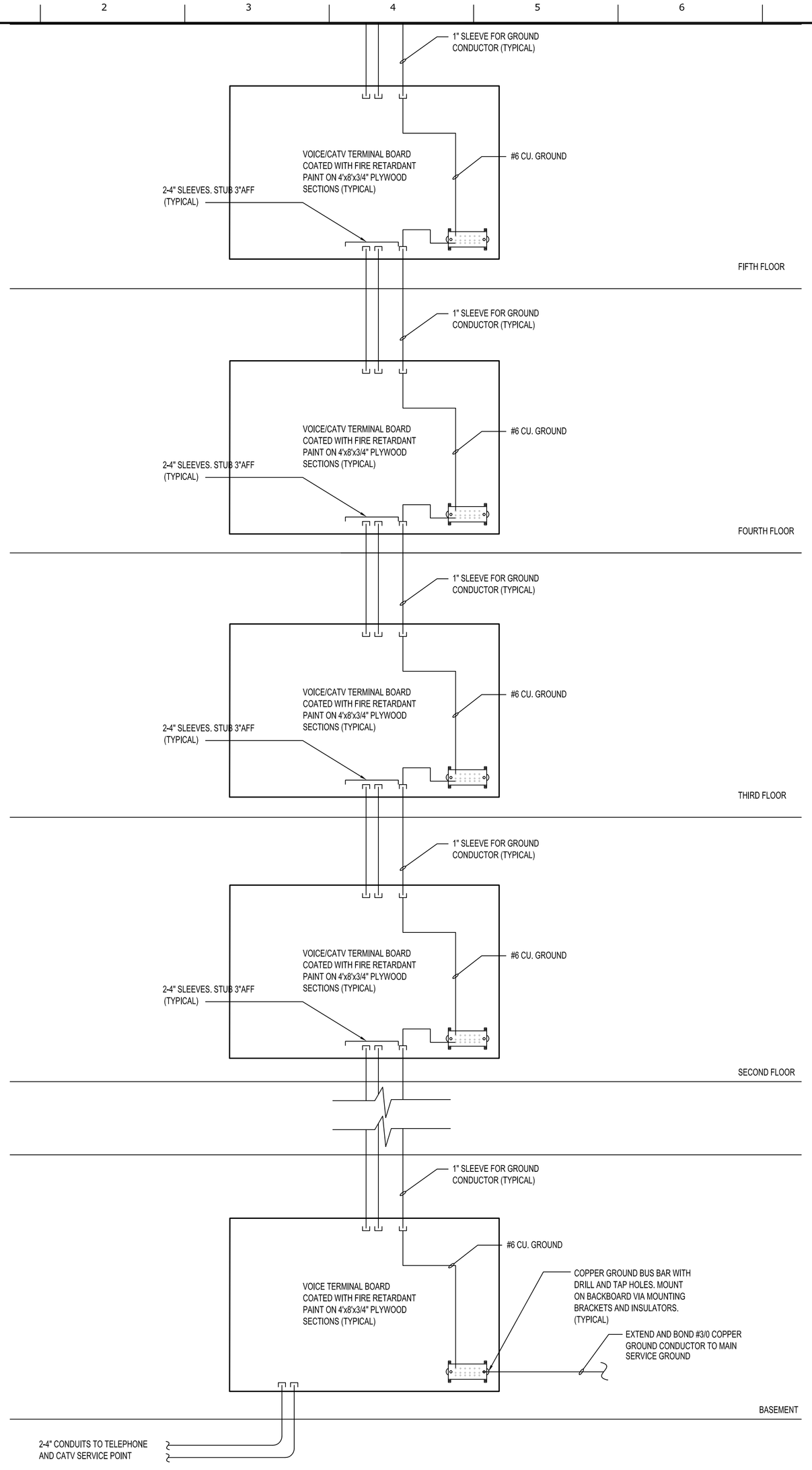
ENLARGED UNIT PLANS - ELECTRICAL

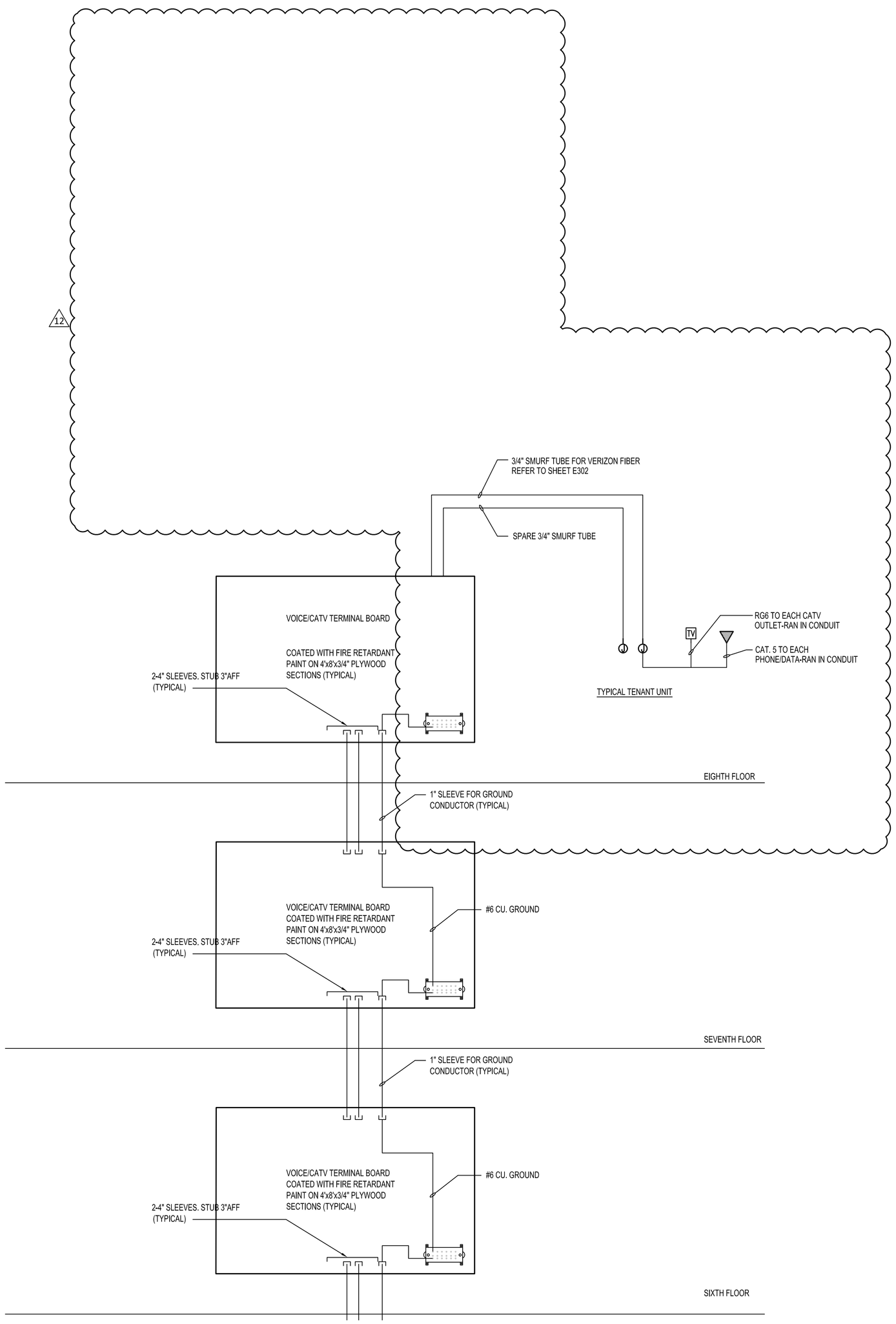
PROJECT NO.: 13270.99

E311

1 ENLARGED ELECTRICAL PLAN - UNIT 16

1/4" = 1'-0"





E401 | **COMMUNICATION RISER DIAGRAM**

N.T.S.

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2	03/16/2015	PERMIT REVIEW COMMENTS		
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	05/23/2014	BID SET		

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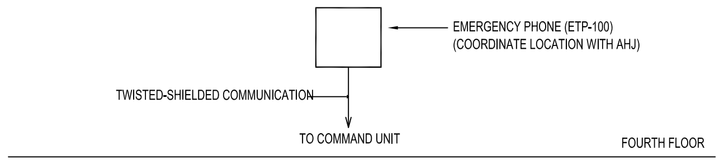
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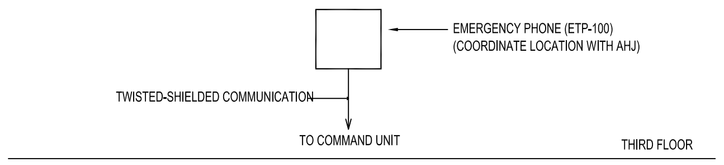
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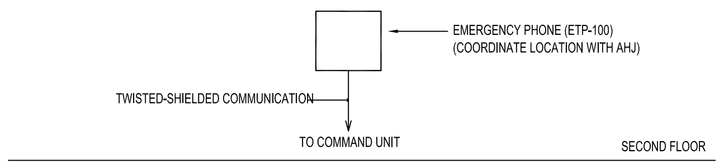
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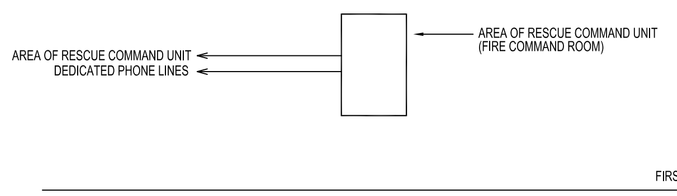
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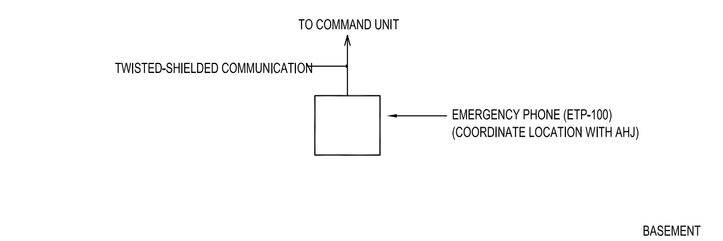
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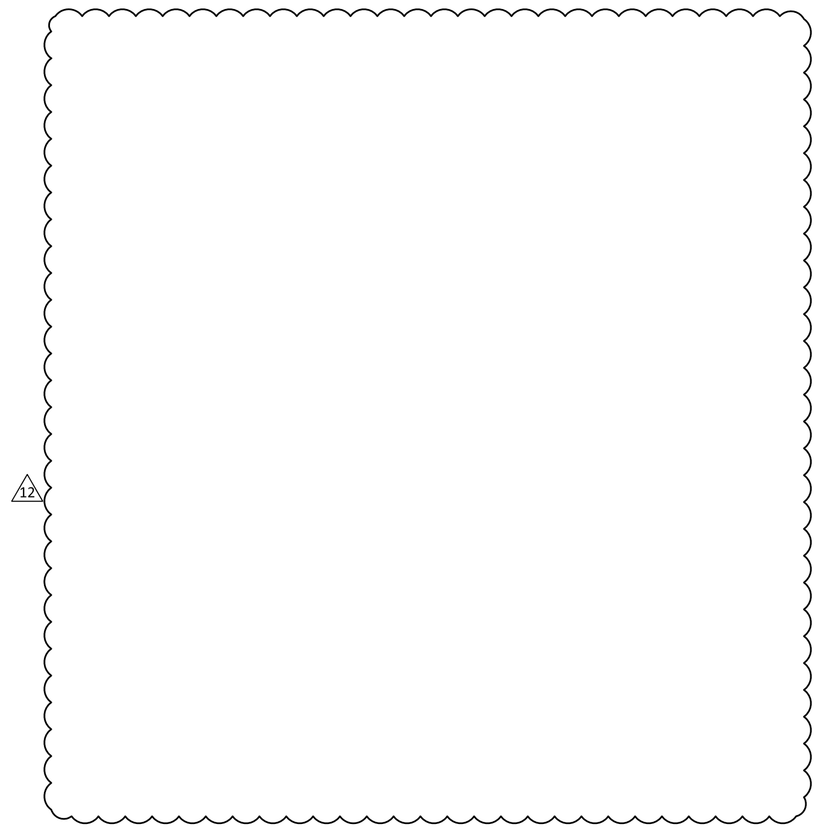


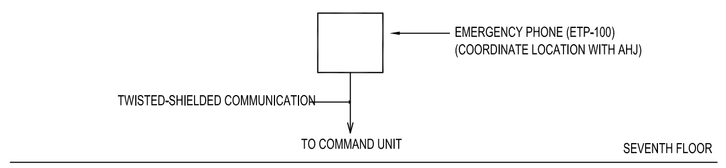


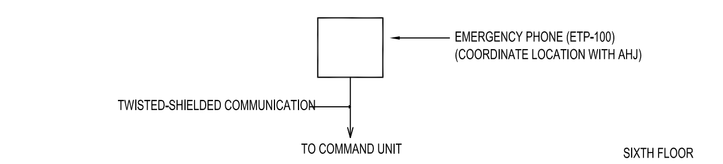


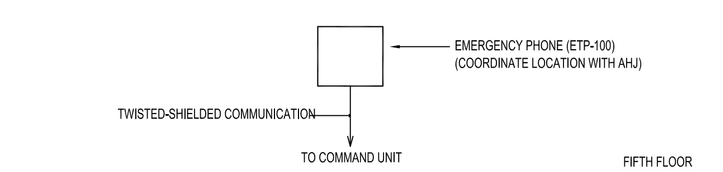












E402 | **TW0-WAY COMMUNICATION RISER DIAGRAM**

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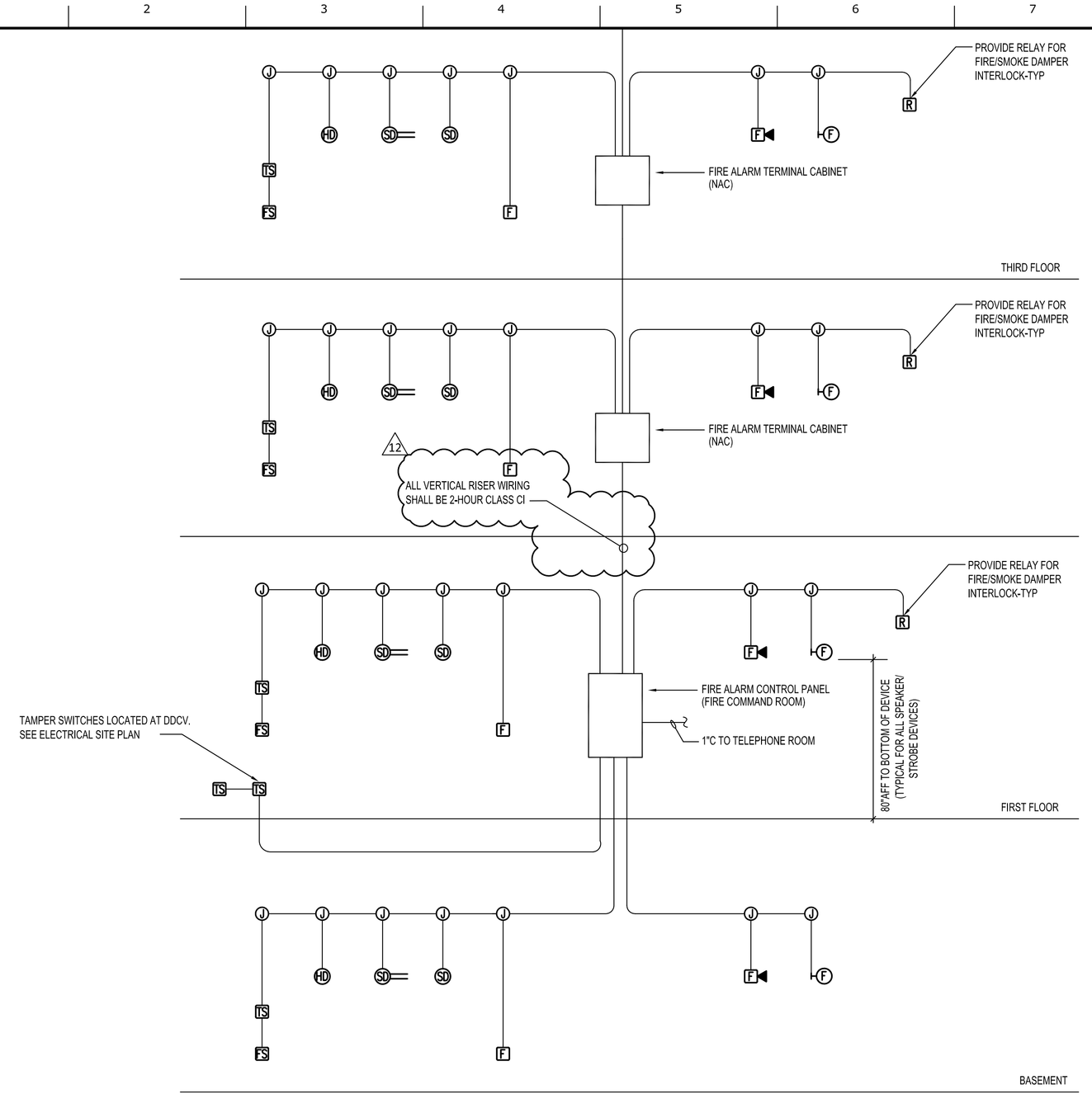
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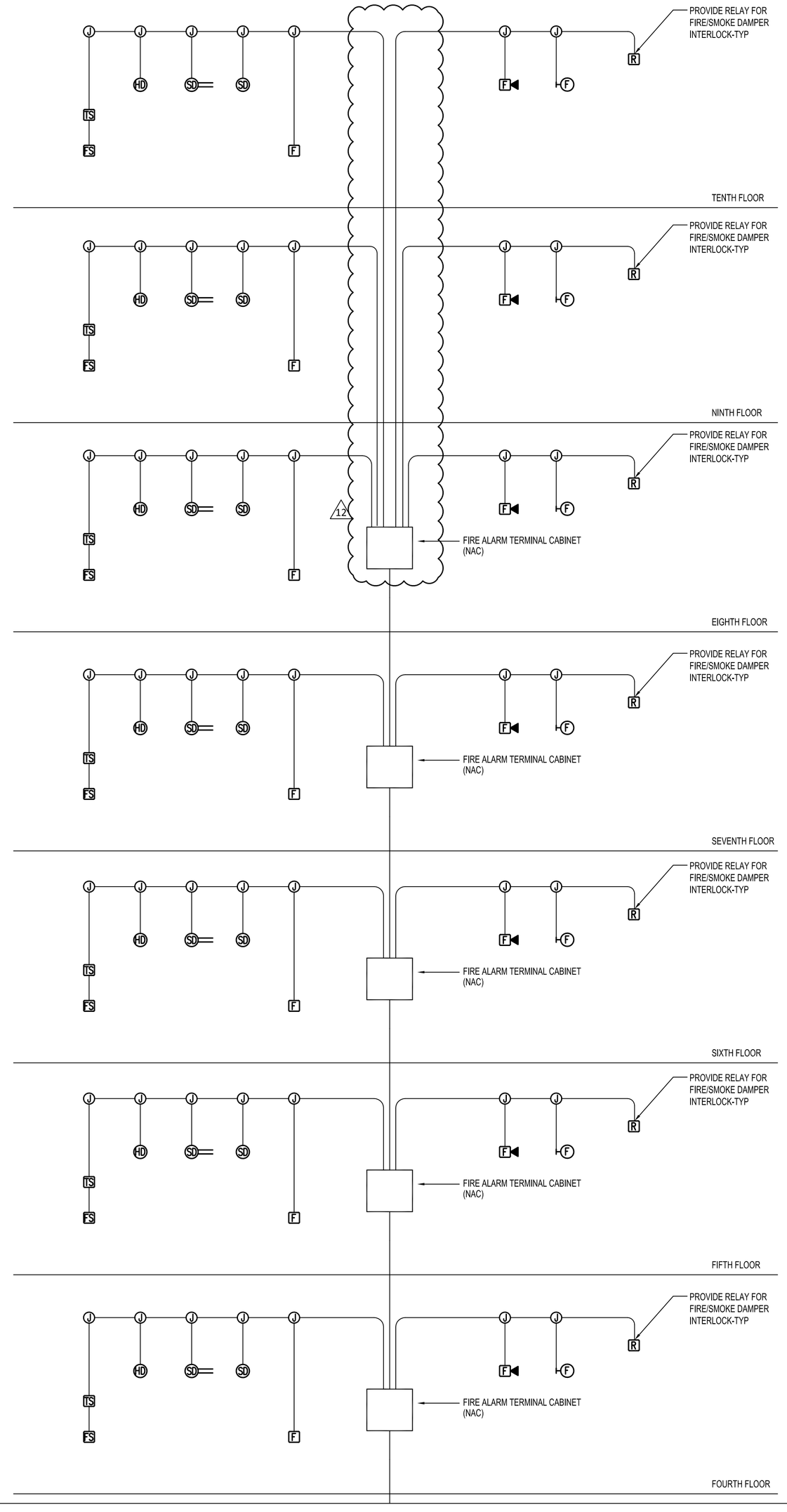
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TW0-WAY COMMUNICATION RISER DIAGRAM

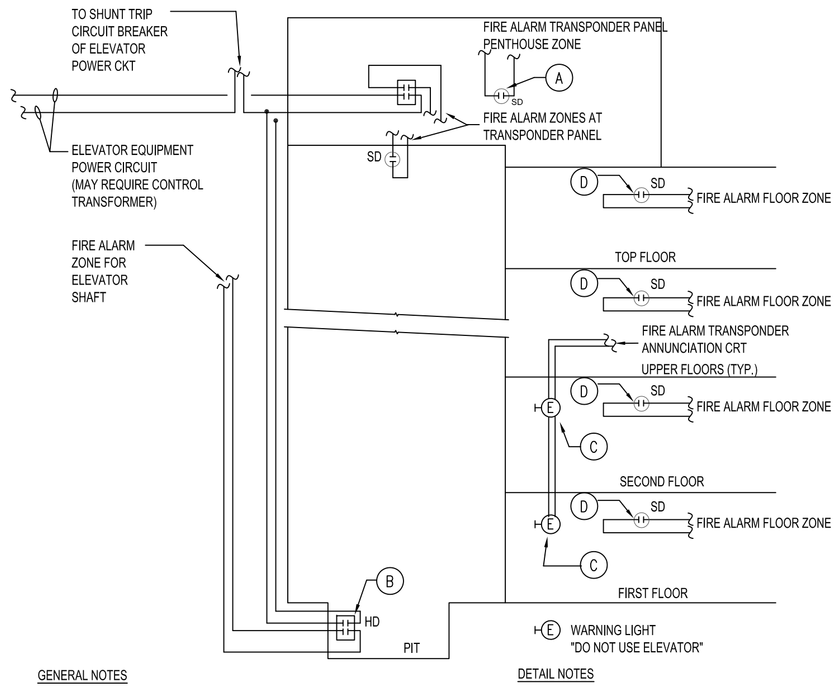
PROJECT NO.: 13270.99

E402





NOTES:
1. SIZE CONDUIT PER FIRE ALARM MANUFACTURER RECOMMENDATION, PROVIDE 3/4" CONDUIT MINIMUM.
2. SEE FLOOR PLANS FOR QUANTITY AND LOCATION OF DEVICES.
3. SPEAKER, STROBE, AND OTHER INDICATING FIRE ALARM DEVICES SHALL BE MOUNTED 80" AFF TO BOTTOM OF DEVICE
4. CONTRACTOR SHALL PROVIDE FIRE ALARM SHOP DRAWINGS TO INCLUDE THE FOLLOWING PER NFPA 72:
   - A. INDICATE TYPE OF BUILDING CONSTRUCTION AND OCCUPANCY
   - B. INDICATE TYPE OF FIRE ALARM SYSTEM, FIRE ALARM DEVICES, AND AREA OF COVERAGE.
   - C. INDICATE ALL FIRE ALARM DEVICES AND EQUIPMENT ON PLANS AND WIRING DIAGRAMS.
   - D. INDICATE ALL FIRE ALARM DEVICES AND EQUIPMENT ON PLANS, WIRING DIAGRAMS, CALCUALTIONS SHOWING SECONDARY SUPPLY AND VOLTAGE DROP, AND RESPONSE POINTS.
   - E. COMPLETE LIST OF DETECTION, EVACUATION SIGNALING AND ANNUCIATOR ZONES.
   - F. INDICATE CANDELA RATINGS FOR ALL VISUAL NOTIFICATION DEVICES.
   - G. COMPLETE LIST OF SAFETY CONTROL FUNCTIONS, SEQUENCE OF OPERATIONS DETAILING ALL INPUTS AND OUTPUTS.
   - H. NOTE ON PLAN INDICATING THAT THE INSTALLATION SHALL BE CERTIFICATED AND THE INSTALLATION SHALL BE PLACARDED.



GENERAL NOTES

1. DERIVE POWER FOR FLASHING WARNING LIGHT FROM VISUAL ALARM CIRCUIT IN FIRE ALARM CONTROL PANEL.
2. COORDINATED HEAT DETECTOR SHALL BE FIXED TEMPERATURE 135°F & SPRINKLER HEAD SHALL BE 286°F.
3. INITIATION OF ELEVATOR LOBBY, TOP OF SHAFT, OR MACHINE ROOM SMOKE DETECTOR LOOP SHALL PLACE ELEVATOR CONTROL INTO PHASE 1 RECALL MODE AND RETURN ELEVATOR TO DESIGNATED SAFE LEVEL.

DETAIL NOTES

- (A) SMOKE DETECTOR AND 135° FIXED TEMPERATURE HEAT DETECTOR LOCATED IN ELEVATOR MACHINE ROOM.
- (B) SHUNT TRIP CONTACT - TYPICAL (AUXILIARY CONTACT IN HEAT DETECTOR)
- (C) FLASHING WARNING LIGHTS LOACTED ADJACENT TO ELEV OR CALL BUTTON AT PRIMARY AND ALTERNATE ACCESS LEVELS.
- (D) SMOKE DETECTOR LOCATIN IN ELEVATOR LOBBY.

ELEVATOR RECALL AND SHUNT TRIP

N.T.S.

E403 | **FIRE ALARM RISER DIAGRAM**

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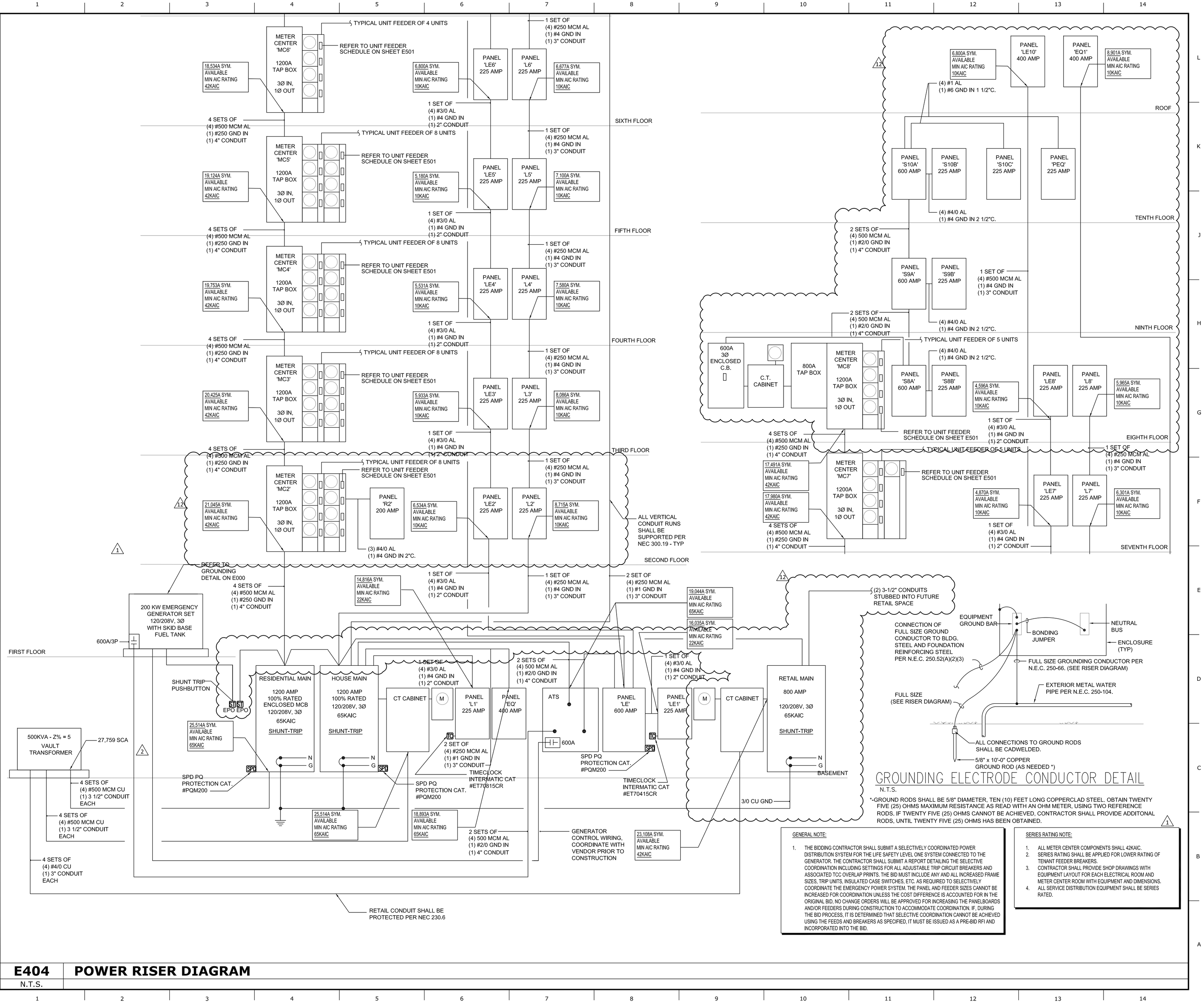
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FIRE ALARM RISER DIAGRAM

PROJECT NO.: 13270.99

E403



GROUNDING ELECTRODE CONDUCTOR DETAIL

N.T.S.

*-GROUND RODS SHALL BE 5/8" DIAMETER, TEN (10) FEET LONG COPPERCLAD STEEL. OBTAIN TWENTY FIVE (25) OHMS MAXIMUM RESISTANCE AS READ WITH AN OHM METER, USING TWO REFERENCE RODS. IF TWENTY FIVE (25) OHMS CANNOT BE ACHIEVED, CONTRACTOR SHALL PROVIDE ADDITONAL RODS, UNTIL TWENTY FIVE (25) OHMS HAS BEEN OBTAINED.

GENERAL NOTE:

1. THE BIDDING CONTRACTOR SHALL SUBMIT A SELECTIVELY COORDINATED POWER DISTRIBUTION SYSTEM FOR THE LIFE SAFETY LEVEL ONE SYSTEM CONNECTED TO THE GENERATOR. THE CONTRACTOR SHALL SUBMIT A REPORT DETAILING THE SELECTIVE COORDINATION INCLUDING SETTINGS FOR ALL ADJUSTABLE TRIP CIRCUIT BREAKERS AND ASSOCIATED TCC OVERLAP PRINTS. THE BID MUST INCLUDE ANY AND ALL INCREASED FRAME SIZES, TRIP UNITS, INSULATED CASE SWITCHES, ETC. AS REQUIRED TO SELECTIVELY COORDINATE THE EMERGENCY POWER SYSTEM. THE PANEL AND FEEDER SIZES CANNOT BE INCREASED FOR COORDINATION UNLESS THE COST DIFFERENCE IS ACCOUNTED FOR IN THE ORIGINAL BID, NO CHANGE ORDERS WILL BE APPROVED FOR INCREASING THE PANELBOARDS AND/OR FEEDERS DURING CONSTRUCTION TO ACCOMMODATE COORDINATION. IF, DURING THE BID PROCESS, IT IS DETERMINED THAT SELECTIVE COORDINATION CANNOT BE ACHIEVED USING THE FEEDS AND BREAKERS AS SPECIFIED, IT MUST BE ISSUED AS A PRE-BID RFI AND INCORPORATED INTO THE BID.

SERIES RATING NOTE:

1. ALL METER CENTER COMPONENTS SHALL 42KAIC.
2. SERIES RATING SHALL BE APPLIED FOR LOWER RATING OF TENANT FEEDER BREAKERS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITH EQUIPMENT LAYOUT FOR EACH ELECTRICAL ROOM AND METER CENTER ROOM WITH EQUIPMENT AND DIMENSIONS.
4. ALL SERVICE DISTRIBUTION EQUIPMENT SHALL BE SERIES RATED.

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POWER RISER DIAGRAM

PROJECT NO.: 13270.99

E404

HOUSE MAIN

100% RATED MAIN BREAKER 1200 AMPS
MAIN LUGS --- AMPS

PANEL HOUSE MAIN

BUS RATING 1200 AMPS
A/C RATING 65,000 AMPS

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
							Phase 3	Circuit 42	Mount Surface	NEMA 1	Voltage 120	208				
	1	PANEL 'EQ'	(2)250	400	3	S	26.69	30.51		S	3	400	(2)250	PANEL 'EQ1'	2	
	3	"	"	"	"	S		27.21	29.47	S	"	"	"	"	4	
	5	"	"	"	"	S			26.59	29.47	S	"	"	"	"	6
	7	PANEL 'L1'	3/0	150	3	S	10.49	13.20		S	3	200	250	PANEL 'L2' THRU 'L8'	8	
	9	"	"	"	"	S		9.10	10.39	S	"	"	"	"	10	
	11	"	"	"	"	S			6.70	4.49	S	"	"	"	"	12
	13	PANEL 'LE' VIA ATS	(2)500	600	3	S	46.65				3	200		SPARE	14	
	15	"	"	"	"	S		35.69			"	"		"	16	
	17	"	"	"	"	S			36.92		"	"		"	18	
	19	SPARE		200	3					S	3	30	10	SPD	20	
	21	"		"	"					S	"	"	"	"	22	
	23	"		"	"					S	"	"	"	"	24	

Phase kVA	127.535	111.854	104.160
Total kVA	343.549	Total Amps	954.73
Total Demand kVA	343.549	Dem Load Amps	954.73

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 343.549 KVA @ 1.00 DF= 343.549 KVA

Future Retail/Restaurant

Square footage	@	Watts	=	Total KW
5,600	X	40.000	=	224.000

Demand Factor

224.000	X	1.00	=	224.000	KW
			@	208	VAC 3 Phase
				622.50	AMPS
Meter Main to be				800	Amp Rated

Reception (2nd Flr)

Square footage	@	Watts	=	Total KW
1,750	X	15.000	=	26.250

Demand Factor

26.250	X	1.00	=	26.250	KW
			@	208	VAC 1 Phase
				126.20	AMPS
Meter Main to be				200	Amp Rated

Residential Main

Load Calculations for Floors No. 2 thru 8

Floor Main No. MC2,MC3,MC4,MC5,MC6,MC7,MC8

Unit Type	Qty	@	KW	=	Total KW
1	3	X	29.873	=	89.619
2	3	X	29.363	=	88.089
3	3	X	29.447	=	88.341
4	4	X	29.855	=	119.420
5	3	X	30.167	=	90.501
6	3	X	32.200	=	96.600
7	3	X	32.300	=	96.900
8	3	X	30.381	=	91.143
8A	1	X	30.948	=	30.948
9	3	X	32.230	=	96.690
10	2	X	30.350	=	60.700
11	3	X	30.828	=	92.484
12	1	X	35.830	=	35.830
13	1	X	30.648	=	30.648
14	1	X	30.020	=	30.020
15	1	X	66.710	=	66.710
16	1	X	37.180	=	37.180
Penthouse	1	X	159.240	=	159.240

Demand Factor

	40			1401.063	X 0.28	= 392.298 KW
Reception (2nd Flr)	@	Watts	=			
1,750	X	15.000	=	26.250		

Demand Factor

26.250	X	1.00	=	26.250	KW
			@	208	VAC 3 Phase
				1163.15	AMPS
Meter Main to be				1200	Amp Rated

Unit Feeder Schedule

Feeder Designation	O/Current Protection Size Amps	Type	Qty. of runs/sets	Conductors Qty.	Phase	Neutral	Grnd	Material	Insulation	Conduit Size In.	Type
UNIT #1	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #2	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #3	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #4	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #5	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #6	150	Breaker	1	2	#3/0	#3/0	#4	Aluminum	THWN	2"	MC
UNIT #7	150	Breaker	1	2	#3/0	#3/0	#4	Aluminum	THWN	2"	MC
UNIT #8	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #8A	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #9	150	Breaker	1	2	#3/0	#3/0	#4	Aluminum	THWN	2"	MC
UNIT #10	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #11	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #12	150	Breaker	1	2	#3/0	#3/0	#4	Aluminum	THWN	2"	MC
UNIT #13	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #14	100	Breaker	1	2	#1	#1	#6	Aluminum	THWN	1.5"	MC
UNIT #15	200	Breaker	1	2	#4/0	#4/0	#4	Aluminum	THWN	2"	MC
UNIT #16	150	Breaker	1	2	#3/0	#3/0	#4	Aluminum	THWN	2"	MC

2nd Floor 'MC2'

Unit Type	Qty	@	KW	=	Total KW
Unit #4	1	X	29.855	=	29.855
Unit #5	1	X	30.167	=	30.167
Unit #6	1	X	32.200	=	32.200
Unit #7	1	X	32.300	=	32.300
Unit #8A	1	X	30.948	=	30.948

Demand Factor

5				155.47	X 0.43	= 66.852 KW
Reception (2nd Flr)	@	Watts	=			
1,750	X	15.000	=	26.250		

Demand Factor

26.250	X	1.00	=	26.250	KW
Sub-Total				93.102	
			@	208	VAC 3 Phase
				258.62	AMPS
Feed-thru Lugs rated at				1200	Amp Rated

5th Floor 'MC5'

Unit Type	Qty	@	KW	=	Total KW
Unit #1	1	X	29.873	=	29.873
Unit #2	1	X	29.363	=	29.363
Unit #3	1	X	29.447	=	29.447
Unit #4	1	X	29.855	=	29.855
Unit #15	1	X	66.710	=	66.710
Unit #8	1	X	30.381	=	30.381

Demand Factor

6				215.63	X 0.43	= 92.720 KW
Sub-Total					92.720	
			@	208	VAC 3 Phase	
				257.56	AMPS	
Feed-thru Lugs rated at				1200	Amp Rated	

3rd Floor 'MC3'

Unit Type	Qty	@	KW	=	Total KW
Unit #1	1	X	29.873	=	29.873
Unit #2	1	X	29.363	=	29.363
Unit #3	1	X	29.447	=	29.447
Unit #4	1	X	29.855	=	29.855
Unit #5	1	X	30.167	=	30.167
Unit #6	1	X	32.200	=	32.200
Unit #7	1	X	32.300	=	32.300
Unit #8	1	X	30.381	=	30.381

Demand Factor

8				243.59	X 0.43	= 104.742 KW
Sub-Total					104.742	
			@	208	VAC 3 Phase	
				290.95	AMPS	
Feed-thru Lugs rated at				1200	Amp Rated	

4th Floor 'MC4'

Unit Type	Qty	@	KW	=	Total KW
Unit #1	1	X	29.873	=	29.873
Unit #2	1	X	29.363	=	29.363
Unit #3	1	X	29.447	=	29.447
Unit #4	1	X	29.855	=	29.855
Unit #5	1	X	30.167	=	30.167
Unit #6	1	X	32.200	=	32.200
Unit #7	1	X	32.300	=	32.300
Unit #8	1	X	30.381	=	30.381

Demand Factor

8				243.59	X 0.43	= 104.742 KW
Sub-Total					104.742	
			@	208	VAC 3 Phase	
				290.95	AMPS	
Feed-thru Lugs rated at				1200	Amp Rated	

8th Floor 'MC8'

Unit Type	Qty	@	KW	=	Total KW
Unit #9	1	X	32.230	=	32.230
Penthouse	1	X	159.240	=	159.240
Unit #11	1	X	30.828	=	30.828
Unit #13	1	X	30.648	=	30.648
Unit #14	1	X	30.674	=	30.674

Demand Factor

5				283.62	X 0.45	= 127.629 KW
Sub-Total					127.629	
			@	208	VAC 3 Phase	
				354.53	AMPS	
Feed-thru Lugs rated at				1200	Amp Rated	

6th Floor 'MC6'

Unit Type	Qty	@	KW	=	Total KW
Unit #9	1	X	32.230	=	32.230
Unit #10	1	X	30.350	=	30.350
Unit #11	1	X	30.828	=	30.828
Unit #12	1	X	35.830	=	35.830

Demand Factor

4				129.24	X 0.45	= 58.157 KW
Sub-Total					58.157	
			@	208	VAC 3 Phase	
				161.55	AMPS	
Feed-thru Lugs rated at				1200	Amp Rated	

7th Floor 'MC7'

Unit Type	Qty	@	KW	=	Total KW
Unit #9	1	X	32.230	=	32.230
Unit #10	1	X	30.350	=	30.350
Unit #11	1	X	30.828	=	30.828
Unit #16	1	X	37.180	=	37.180

Demand Factor

4				130.59	X 0.45	= 58.765 KW
Sub-Total					58.765	
			@	208	VAC 3 Phase	
				163.24	AMPS	
Feed-thru Lugs rated at				1200	Amp Rated	

Project Overview

Voltage	120/208v	**Fuel Type**	Diesel
Frequency	60 Hz	**Rating Type**	Standby
Phase	Three Phase	**Site Altitude**	100 m (328 ft)
Temperature Rise	130°C	**Ambient Temperature**	25°C (77°F)
		Permitted Back Pressure	50 mbar (20.1 in. H_2O)

Step	Load Description	Qty	SkW	SkVA	SPF	RkW	RkVA	RPF	VDIP[3]	FDIP[3]
1									28.5%	5.6%
	elevator Permitted V-Dip: 30% Non-linear: Yes Starting Method: Across the line 100% HP: 25	1	62.48	148.75	0.42	20.9	24.1	0.87		
	elevator Permitted V-Dip: 30% Non-linear: Yes Starting Method: Across the line 100% HP: 25	1	62.48	148.75	0.42	20.9	24.1	0.87		
	Miscellaneous Permitted V-Dip: 30% Non-linear: Yes	1	75	75	1	72.1	72.1	1		
	1 Loads Total		199.95	335.97	0.6	113.9	116.4	0.98		
	Project Total at 1		199.95	335.97		113.9	116.4	0.98		

Skyview

Penthouse Load Calculation

Per NEC 220.82

General Lighting		@		
Sq. Footage	13098	3	Watts/Sq. Ft.	39,294 Watts
Sm. Appliance Ckt.	8	1,500	Watts	12,000 Watts
Dishwasher	4	1,200	Watts	4,800 Watts
Disposal	4	750	Watts	3,000 Watts
Dryer	2	5,000	Watts	10,000 Watts
Refrigerator	4	800	Watts	3,200 Watts
Range	4	8,000	Watts	32,000 Watts
Water Heater	3	4,500	Watts	13,500 Watts
Washer	2	1,500	Watts	3,000 Watts
Other	1	1,000	Watts	1,000 Watts
Pool eq	1	2,800	Watts	2,800 Watts
			Total	124,594 Watts
First	10,000	Watts @	100%	10,000 Watts
Remainder	114,594	Watts @	40%	45,838 Watts
			Sub-Total	55,838 Watts

A/C Load	>	A/C Load Per NEC 220.82		
CU-V1		11,400	Watts @ 100%	11,400 Watts
CU-V2		11,400	Watts @ 100%	11,400 Watts
CU-OAU		8,200	Watts @ 100%	8,200 Watts
AHU-8-1		180	Watts @ 100%	180 Watts
AHU-9-1		30	Watts @ 100%	30 Watts
AHU-9-2		180	Watts @ 100%	180 Watts
AHU-9-3		210	Watts @ 100%	210 Watts
AHU-9-4		340	Watts @ 100%	340 Watts
AHU-9-5		210	Watts @ 100%	210 Watts
AHU-9-6		250	Watts @ 100%	250 Watts
AHU-9-7		180	Watts @ 100%	180 Watts
AHU-10-2		80	Watts @ 100%	80 Watts
AHU-10-3		180	Watts @ 100%	180 Watts
AHU-10-4		30	Watts @ 100%	30 Watts
AHU-10-5		210	Watts @ 100%	210 Watts
AHU-10-6		210	Watts @ 100%	210 Watts
AHU-10-7		30	Watts @ 100%	30 Watts
AHU-10-8		180	Watts @ 100%	180 Watts
AHU-10-9		130	Watts @ 100%	130 Watts
AHU-10-10		180	Watts @ 100%	180 Watts
AHU-10-11		180	Watts @ 100%	180 Watts
OAU-1		660	Watts @ 100%	660 Watts
			Sub-Total	34,650 Watts
			Total Connected Load W/Demand	90,488 Watts
			@ 208-3ϕ	Volts
				251.35 Amps
		Unit Main Breaker and Feeders to be		600 Amp Rated
		Total Connected Load W/O Demand		159,244 Watts

Load is estimated, space will be permitted separately

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No.	Date	Revisions / Submissions	D.	CK.
12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
2	03/16/2015	PERMIT REVIEW COMMENTS		
1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

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THE SKYVIEW CONDOMINIUMS

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SCHEDULES AND CALCULATIONS

PROJECT NO.: 13270.99

E501

E501 SCHEDULES AND CALCULATIONS
N.T.S.

PANEL L1

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
BUS RATING 225 AMPS
AIC RATING 22,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	WATER FEATURE	8	20	1	S	1.00	1.00		S	1	20	10	PARKING SECURITY	2	
3	EWC	12	20	1	R		0.83	1.00	S	1	20	10	PARKING SECURITY	4	
5	RECEPT RM 010,011,019	12	20	1	R			0.72 0.20	S	1	20	10	PARKING SECURITY	6	
7	RECEPT RM 001,004	12	20	1	R	0.72	0.72		R	1	20	12	RECEPT DATA EQPM RM 016	8	
9	RECEPT RM 004	12	20	1	R		0.90	0.72	R	1	20	12	RECEPT TENANT STOR 013	10	
11	RECEPT RM 005	12	20	1	R			0.72 0.90	R	1	20	12	RECEPT RM 014,015,016	12	
13	RECEPT RM 102, 103, 110	12	20	1	R	0.72	0.90		R	1	20	12	RECEPT CORR 106, R 107,110	14	
15	AUTOMATIC DOOR LOBBY	12	20	1	S		1.00	0.36	R	1	20	12	RECEPT RM 002,003	16	
17	RECEPT RM 105	12	20	1	R			0.72 1.00	S	1	20	10	STAR FIELD	18	1
19	SPARE		20	1			0.76		L	1	20	12	LIGHTS EXTERIOR	20	1
21	SPARE	10	20	1				0.10	L	1	20	12	LIGHTS COVE ELEV LOBBY	22	
23	LIGHTS TENANT ROOM	12	20	1	L			0.36 0.50	L	1	20	12	LIGHTS RM 104, 105, 110	24	
25	LIGHTS TENANT STOR	10	20	1	L	1.48	0.94		L	1	20	10	LIGHTS VAULT ROOMS	26	
27	LIGHTS TENANT STOR	10	20	1	L		1.14	0.80	L	1	20	12	LIGHTS CORR/MECH RM	28	
29	AF-1	10	20	1	S			1.18 0.40	L	1	20	12	DRIVE-UP MARKER LIGHTS	30	1
31	SPACE					2.25			S	2	30	10	EWH-3	32	
33	SPACE						2.25		S	"	"	"	"	34	
35	SPACE												SPACE	36	
37	SPACE												SPACE	38	
39	SPACE												SPACE	40	
41	SPACE												SPACE	42	
	Phase kVA					10.494	9.099	6.698							
	Total kVA					26.291	Total Amps	73.06							
	Total Demand kVA					27.912	Dem Load Amps	77.57							

LIGHTING "L": 6.484 KVA @ 1.25 DF= 8.105 KVA
RECEPT "R": 8.931 KVA, 1ST 10KVA + 50% OF REMAINDER= 8.931 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ 65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 10.876 KVA @ 1.00 DF= 10.876 KVA

NOTES:
1 CIRCUIT VIA TIMECLOCK.

PANEL L2

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS
BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	RECEPT DATA EQPM RM 209	12	20	1	S	1.00	0.20								
3	RECEPT 2ND FL CORR	12	20	1	R			0.90 0.50	R	1	20	12	EWC-GYM	4	
5	RECEPT GYM	12	20	1	R			0.50 0.72	R	1	20	12	RECEPT GYM	6	
7	RECEPT GYM	12	20	1	R	0.50	0.50		R	1	20	12	RECEPT GYM	8	
9	RECEPT GYM	12	20	1	R		0.50	0.50	R	1	20	12	RECEPT GYM	10	
11	WSHP-I	12	15	2	A			0.46 0.50	R	1	20	12	RECEPT GYM	12	
13	"	"	"	"	A	0.46	2.25		S	2	30	10	EWH	14	
15	LIGHTS GYM	12	20	1	L		0.34	2.25	S				"	16	
17	AUTOMATIC DOOR	12	20	1	S			0.50 1.81	A	2	30	10	WSHP-D	18	
19	SPACE					1.81			A	"	"	"	"	20	2
21	SPACE												SPACE	22	
23	SPACE												SPACE	24	
25	SPACE												SPACE	26	
27	SPACE												SPACE	28	
29	SPACE												SPACE	30	
	Phase kVA					6.716	4.990	4.486							
	Total kVA					16.192	Total Amps	45.00							
	Total Demand kVA					16.327	Dem Load Amps	45.37							

LIGHTING "L": 0.540 KVA @ 1.25 DF= 0.675 KVA
RECEPT "R": 5.120 KVA, 1ST 10KVA + 50% OF REMAINDER= 5.120 KVA
A/C "A": 4.532 KVA @ 1.00 DF= 4.532 KVA
KITCHEN "K": 0.000 KVA @ 65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 6.000 KVA @ 1.00 DF= 6.000 KVA

PANEL L3

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS
BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	RECEPT DATA EQPM RM 309	12	20	1	S	1.00	0.20		L	1	20	12	LIGHTS COVE ELEV LOBBY	2	
3	RECEPT 3RD FL CORR	12	20	1	R		0.90						SPACE	4	
5	SPACE												SPACE	6	
7	SPACE												SPACE	8	
9	SPACE												SPACE	10	
11	SPACE												SPACE	12	
13	SPACE												SPACE	14	
15	SPACE												SPACE	16	
17	SPACE												SPACE	18	
19	SPACE												SPACE	20	
21	SPACE												SPACE	22	
23	SPACE												SPACE	24	
25	SPACE												SPACE	26	
27	SPACE												SPACE	28	
29	SPACE												SPACE	30	
	Phase kVA					1.200	0.900	0.000							
	Total kVA					2.100	Total Amps	5.84							
	Total Demand kVA					2.150	Dem Load Amps	5.97							

LIGHTING "L": 0.200 KVA @ 1.25 DF= 0.250 KVA
RECEPT "R": 0.900 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.900 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ 65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.000 KVA @ 1.00 DF= 1.000 KVA

PANEL L4

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS
BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	RECEPT DATA EQPM RM 409	12	20	1	S	1.00	0.20		L	1	20	12	LIGHTS COVE ELEV LOBBY	2	
3	RECEPT 4TH FL CORR	12	20	1	R		0.90						SPACE	4	
5	SPACE												SPACE	6	
7	SPACE												SPACE	8	
9	SPACE												SPACE	10	
11	SPACE												SPACE	12	
13	SPACE												SPACE	14	
15	SPACE												SPACE	16	
17	SPACE												SPACE	18	
19	SPACE												SPACE	20	
21	SPACE												SPACE	22	
23	SPACE												SPACE	24	
25	SPACE												SPACE	26	
27	SPACE												SPACE	28	
29	SPACE												SPACE	30	
	Phase kVA					1.200	0.900	0.000							
	Total kVA					2.100	Total Amps	5.84							
	Total Demand kVA					2.150	Dem Load Amps	5.97							

LIGHTING "L": 0.200 KVA @ 1.25 DF= 0.250 KVA
RECEPT "R": 0.900 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.900 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ 65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.000 KVA @ 1.00 DF= 1.000 KVA

PANEL L5

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS
BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	RECEPT DATA EQPM RM 509	12	20	1	S	1.00	0.20		L	1	20	12	LIGHTS COVE ELEV LOBBY	2	
3	RECEPT 5TH FL CORR	12	20	1	R		0.90						SPACE	4	
5	SPACE												SPACE	6	
7	SPACE												SPACE	8	
9	SPACE												SPACE	10	
11	SPACE												SPACE	12	
13	SPACE												SPACE	14	
15	SPACE												SPACE	16	
17	SPACE												SPACE	18	
19	SPACE												SPACE	20	
21	SPACE												SPACE	22	
23	SPACE												SPACE	24	
25	SPACE												SPACE	26	
27	SPACE												SPACE	28	
29	SPACE												SPACE	30	
	Phase kVA					1.200	0.900	0.000							
	Total kVA					2.100	Total Amps	5.84							
	Total Demand kVA					2.150	Dem Load Amps	5.97							

LIGHTING "L": 0.200 KVA @ 1.25 DF= 0.250 KVA
RECEPT "R": 0.900 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.900 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ 65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.000 KVA @ 1.00 DF= 1.000 KVA

PANEL L6

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS
BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	RECEPT DATA EQPM RM 609	12	20	1	S	1.00	0.20		L	1	20	12	LIGHTS COVE ELEV LOBBY	2	
3	RECEPT 6TH FL CORR	12	20	1	R		0.90						SPACE	4	
5	SPACE												SPACE	6	
7	SPACE												SPACE	8	
9	SPACE												SPACE	10	
11	SPACE												SPACE	12	
13	SPACE												SPACE	14	
15	SPACE												SPACE	16	
17	SPACE												SPACE	18	
19	SPACE												SPACE	20	
21	SPACE												SPACE	22	
23	SPACE												SPACE	24	
25	SPACE												SPACE	26	
27	SPACE												SPACE	28	
29	SPACE												SPACE	30	
	Phase kVA					1.200	0.900	0.000							
	Total kVA					2.100	Total Amps	5.84							
	Total Demand kVA					2.150	Dem Load Amps	5.97							

LIGHTING "L": 0.200 KVA @ 1.25 DF= 0.250 KVA
RECEPT "R": 0.900 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.900 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ 65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.000 KVA @ 1.00 DF= 1.000 KVA

PANEL L7

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS
BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	RECEPT DATA EQPM RM 709	12	20	1	S	1.00	0.20		L	1	20	12	LIGHTS COVE ELEV LOBBY	2	
3	RECEPT 7TH FL CORR	12	20	1	R		0.90						SPACE	4	
5	SPACE												SPACE	6	
7	SPACE												SPACE	8	
9	SPACE												SPACE	10	
11	SPACE												SPACE	12	
13	SPACE												SPACE	14	
15	SPACE												SPACE	16	
17	SPACE												SPACE	18	
19	SPACE												SPACE	20	
21	SPACE												SPACE	22	
23	SPACE												SPACE	24	
25	SPACE												SPACE	26	
27	SPACE												SPACE	28	
29	SPACE												SPACE	30	
	Phase kVA					1.200	0.900	0.000							
	Total kVA					2.100	Total Amps	5.84							
	Total Demand kVA					2.150	Dem Load Amps	5.97							

LIGHTING "L": 0.200 KVA @ 1.25 DF= 0.250 KVA
RECEPT "R": 0.900 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.900 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ 65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.000 KVA @ 1.00 DF= 1.000 KVA

PANEL L8

MAIN BREAKER -- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS
BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	RECEPT DATA EQPM RM 809	12	20	1	S	1.00	0.20		L	1	20	12	LIGHTS COVE ELEV LOBBY	2	
3	RECEPT 8TH FL CORR	12	20	1	R		0.90						SPACE	4	
5	SPACE												SPACE	6	
7	SPACE												SPACE	8	
9	SPACE												SPACE	10	
11	SPACE												SPACE	12	
13	SPACE												SPACE	14	
15	SPACE												SPACE	16	
17	SPACE												SPACE	18	
19	SPACE												SPACE	20	
21	SPACE												SPACE	22	
23	SPACE												SPACE	24	
25	SPACE												SPACE	26	
27	SPACE												SPACE	28	
29	SPACE												SPACE	30	
	Phase kVA					1.200	0.900	0.000							
	Total kVA					2.100	Total Amps	5.84							
	Total Demand kVA					2.150	Dem Load Amps	5.97							

LIGHTING "L": 0.200 KVA @ 1.25 DF= 0.250 KVA
RECEPT "R": 0.900 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.900 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ 65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.000 KVA @ 1.00 DF= 1.000 KVA

PANEL SCHEDULE KEY

L1	L2
L3	L4
L5	L6
L7	L8

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3	04/06/2015	PERMIT REVIEW COMMENTS		
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1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

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PANEL SCHEDULES

PROJECT NO.: 13270.99

E502

E502 PANEL SCHEDULES
N.T.S.

PANEL LE1

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS

BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	RECEPT FIRE COMMAND RM	12	20	1	R	0.36	0.80		L	1	20	12	LIGHTS CORR 106-FIRE-GEN.	2	
	3	RECEPT GEN RM	12	20	1	R		0.20	0.23	L	1	20	12	LIGHTS FIRE COMMAND 101	4	
	5	LIGHTS RM 104, 105, 110	12	20	1	L			0.31 2.00	S	2	30	10	GENERATOR BLOCK HTR	6	
	7	LIGHTS RETAIL RM 111	12	20	1	L	0.74 2.00			S	"	"	*	"	8	
	9	CU-1/AH-1	12	15	2	A		1.35	1.50	S	2	30	10	GENERATOR BATT. CHARG.	10	
	11	"	"	"	"	A			1.35 1.50	S	"	"	*	"	12	
	13	JOCKEY PUMP	10	30	3	M	2.50	1.50		S	2	30	10	FIRE PUMP BLOCK HTR	14	
	15	"	"	"	"	M		2.50	1.50	S	"	"	*	"	16	
	17	"	"	"	"	M			2.50 1.50	S	2	30	10	FIRE PUMP BATT. CHARG.	18	
	19	CONDENSATE PUMP	12	20	1	S	0.50	1.50		S	"	"	*	"	20	
	21	ELEV PIT LIGHTS/RECEPT.	12	20	1	S		0.60	1.14	L	1	20	10	LIGHTS STAIR #1	22	
	23	LIGHTS 013	12	20	1	L			0.68 1.14	L	1	20	10	LIGHTS STAIR #2	24	
1	25	LIGHTS EXTERIOR	10	20	1	L	0.26	0.24		L	1	20	10	LIGHTS EXTERIOR	26	1
2	27	FIRE/SMOKE DAMPER 1ST FL	12	20	1	S		0.20	1.39	A	2	30	10	CU-2/AH-2	28	
	29	ELEV PIT SUMP PUMP	12	20	2	S			1.20 1.39	A	"	"	*	"	30	
12	31	"	"	"	"	S	1.20	1.10		L	1	20		LIGHTS BASEMENT	32	
	33	SMOKE CURTAIN	12	20	1	S		1.00			1	20		SPARE	34	
	35	SPARE		20	1						1	20		SPARE	36	
	37	SPARE		20	1						1	20		SPARE	38	
	39	SPARE		20	1						1	20		SPARE	40	
	41	SPARE		20	1						1	20		SPARE	42	
				Phase kVA			12.695	11.607	13.569							
				Total kVA			37.871	Total Amps	105.24							
				Total Demand kVA			41.408	Dem Load Amps	115.07							

LIGHTING "L": 6.649 KVA @ 1.25 DF= 8.311 KVA
RECEPT "R": 0.560 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.560 KVA
A/C "A": 5.470 KVA @ 1.00 DF= 5.470 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 7.500 KVA, TOTAL + 25% OF LARGEST= 9.375 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 17.692 KVA @ 1.00 DF= 17.692 KVA

NOTES:
1 CIRCUIT VIA TIMECLOCK.
2 PROVIDE BREAKER LOCK, RED COLOR.

PANEL LE

MAIN BREAKER --- AMPS
MAIN LUGS 600 AMPS

BUS RATING 600 AMPS
AIC RATING 65,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
12	1	PANEL 'LE2' THRU 'LE5'	3/0	150	3	S	10.69	12.70		S	3	150	3/0	PANEL 'LE1'	2	
	3	"	"	"	"	S				S	"	"	"	"	4	
	5	"	"	"	"	S			0.50 13.57	S	"	"	"	"	6	
	7	PANEL 'LEHO'	500	300	3	S	23.26			S	3	30	10	SPD	8	
	9	"	"	"	"	S		22.18		S	"	"	"	"	10	
	11	"	"	"	"	S			22.85	S	"	"	"	"	12	
	13	SPARE		150	3						3	150		SPARE	14	
	15	"		"	"						"	"		"	16	
	17	"		"	"						"	"		"	18	
				Phase kVA			46.647	35.687	36.921							
				Total kVA			119.255	Total Amps	331.41							
				Total Demand kVA			119.255	Dem Load Amps	331.41							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 119.255 KVA @ 1.00 DF= 119.255 KVA

PANEL LE2

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS

BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	1	FA NAC PANEL	12	20	1	S	0.40	0.58		L	1	20	12	LIGHTS 2ND FL CORR	2	
1	3	FIRE/SMOKE DAMPER 2ND FL	12	20	1	S		0.20						SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
				Phase kVA			0.980	0.200	0.000							
				Total kVA			1.180	Total Amps	3.28							
				Total Demand kVA			1.325	Dem Load Amps	3.68							

LIGHTING "L": 0.580 KVA @ 1.25 DF= 0.725 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.600 KVA @ 1.00 DF= 0.600 KVA

NOTES:
1 PROVIDE BREAKER LOCK, RED COLOR.

PANEL LE3

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS

BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	1	FA NAC PANEL	12	20	1	S	0.40	0.40		L	1	20	12	LIGHTS 3RD FL CORR	2	
1	3	FIRE/SMOKE DAMPER 3RD FL	12	20	1	S		0.20						SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
				Phase kVA			0.800	0.200	0.000							
				Total kVA			1.000	Total Amps	2.78							
				Total Demand kVA			1.100	Dem Load Amps	3.06							

LIGHTING "L": 0.400 KVA @ 1.25 DF= 0.500 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.600 KVA @ 1.00 DF= 0.600 KVA

NOTES:
1 PROVIDE BREAKER LOCK, RED COLOR.

PANEL LE4

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS

BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	1	FA NAC PANEL	12	20	1	S	0.40	0.40		L	1	20	12	LIGHTS 4TH FL CORR	2	
1	3	F/RE/SMOKE DAMPER 4TH FL	12	20	1	S		0.20						SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
				Phase kVA			0.800	0.200	0.000							
				Total kVA			1.000	Total Amps	2.78							
				Total Demand kVA			1.100	Dem Load Amps	3.06							

LIGHTING "L": 0.400 KVA @ 1.25 DF= 0.500 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 3.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.600 KVA @ 1.00 DF= 0.600 KVA

NOTES:
1 PROVIDE BREAKER LOCK, RED COLOR.

PANEL LE5

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS

BUS RATING 225 AMPS
AIC RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	1	FA NAC PANEL	12	20	1	S	0.40	0.81		L	1	20	12	LIGHTS 5TH FL CORR	2	
1	3	FIRE/SMOKE DAMPER 5TH FL	12	20	1	S		0.20						SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
				Phase kVA			1.210	0.200	0.000							
				Total kVA			1.410	Total Amps	3.92							
				Total Demand kVA			1.613	Dem Load Amps	4.48							

LIGHTING "L": 0.810 KVA @ 1.25 DF= 1.013 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.600 KVA @ 1.00 DF= 0.600 KVA

NOTES:
1 PROVIDE BREAKER LOCK, RED COLOR.

PANEL SCHEDULE KEY

LE1	LE
LE2	LE3
LE4	LE5

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PANEL SCHEDULES

PROJECT NO.: 13270.99

E503

E503 PANEL SCHEDULES
N.T.S.

PANEL LE6

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS

BUS RATING 225 AMPS
A/C RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage	
3	42	Surface	1	120	208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	1	FA NAC PANEL	12	20	1	S	0.40	0.81		L	1	20	12	LIGHTS 6TH FL CORR	2	
1	3	FIRE/SMOKE DAMPER 6TH FL	12	20	1	S		0.20						SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
				Phase kVA			1.210	0.200	0.000							
				Total kVA			1.410	Total Amps	3.92							
				Total Demand kVA			1.613	Dem Load Amps	4.48							

LIGHTING "L": 0.810 KVA @ 1.25 DF= 1.013 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.600 KVA @ 1.00 DF= 0.600 KVA

NOTES:
1 PROVIDE BREAKER LOCK, RED COLOR.

PANEL LE7

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS

BUS RATING 225 AMPS
A/C RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage	
3	42	Surface	1	120	208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	1	FA NAC PANEL	12	20	1	S	0.40	0.81		L	1	20	12	LIGHTS 7TH FL CORR	2	
1	3	FIRE/SMOKE DAMPER 7TH FL	12	20	1	S		0.20						SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
				Phase kVA			1.210	0.200	0.000							
				Total kVA			1.410	Total Amps	3.92							
				Total Demand kVA			1.613	Dem Load Amps	4.48							

LIGHTING "L": 0.810 KVA @ 1.25 DF= 1.013 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.600 KVA @ 1.00 DF= 0.600 KVA

NOTES:
1 PROVIDE BREAKER LOCK, RED COLOR.

PANEL LE8

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS
W/FEED THRU LUGS

BUS RATING 225 AMPS
A/C RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage	
3	42	Surface	1	120	208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
1	1	FA NAC PANEL	12	20	1	S	0.40	0.81		L	1	20	12	LIGHTS 8TH FL CORR	2	
1	3	FIRE/SMOKE DAMPER 8TH FL	12	20	1	S		0.20	0.50	S	1	20	12	SMOKE CURTAIN 9TH FLR	4	
	5	SPACE							0.50	S	1	20	12	SMOKE CURTAIN 10TH FLR	6	12
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
				Phase kVA			1.210	0.700	0.500							
				Total kVA			2.410	Total Amps	6.70							
				Total Demand kVA			2.613	Dem Load Amps	7.26							

LIGHTING "L": 0.810 KVA @ 1.25 DF= 1.013 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.600 KVA @ 1.00 DF= 1.600 KVA

NOTES:
1 PROVIDE BREAKER LOCK, RED COLOR.

PANEL LE10

MAIN BREAKER --- AMPS
MAIN LUGS 400 AMPS

BUS RATING 400 AMPS
A/C RATING 10,000 AMPS

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	SPARE		20	1						1	20		SPARE	2	
	3	SPARE		20	1						1	20		SPARE	4	
	5	CU-1/AH-1	12	20	2	A	0.50	0.11	0.50	0.20	1	20	12	RECPT ELEV MACH RM 1110	6	
	7	"	"	"	"	A	0.50	0.11			1	20	12	LIGHTS TOP OF ELEV SHAFT	8	
	9	LIGHTS ELEC. RM.	12	20	1	L		0.11	0.11		1	20	12	LIGHTS ELEV. MACH. RM.	10	
	11	LIGHTS ROOF	12	20	1	L			0.20		1	20		SPARE	12	
	13	SPARE		20	1			0.70		S	1	20	12	EF-3	14	1
	15	SPARE		20	1						1	20		SPARE	16	
	17	SPARE		20	1						1	20		SPARE	18	
	19	SPARE		20	1						1	20		SPARE	20	
	21	SPARE		20	1						1	20		SPARE	22	
	23	SPARE		20	1						1	20		SPARE	24	
	25	SPARE		20	1						1	20		SPARE	26	
	27	SPARE		20	1						1	20		SPARE	28	
	29	SPARE		20	1						1	20		SPARE	30	
	31	SCF-1	10	30	3	S	2.00	2.00		S	3	30	10	SCF-2	32	
	33	"	"	"	"	S			2.00	2.00	S	"	"	"	34	1
	35	"	"	"	"	S				2.00	2.00	S	"	"	"	36
	37	ELEVATOR 1	1	100	3	S	8.98	8.98		M	3	100	1	ELEVATOR 2	38	
2	39	"	"	"	"	S		8.98	8.98	M	"	"	"	"	40	2
	41	"	"	"	"	S			8.98	8.98	M	"	"	"	42	
				Phase kVA			23.262	22.180	22.852							
				Total kVA			68.294	Total Amps	189.79							
				Total Demand kVA			74.677	Dem Load Amps	207.53							

LIGHTING "L": 0.314 KVA @ 1.25 DF= 0.393 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 1.000 KVA @ 1.00 DF= 1.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 26.928 KVA, TOTAL + 25% OF LARGEST= 33.660 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 39.624 KVA @ 1.00 DF= 39.624 KVA

NOTES:
1 PROVIDE BREAKER LOCK, RED COLOR
2 PROVIDE SHUNT-TRIP BREAKER INTERLOCKED WITH FIRE ALARM

PANEL EQ

MAIN BREAKER --- AMPS
MAIN LUGS 400 AMPS

BUS RATING 400 AMPS
A/C RATING 65,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage	
3	42	Surface	1	120	208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	CWP-2	3	80	3	M	7.13	1.22		A	2	20	10	WSHP-H	2	
	3	"	"	"	"	M		7.13	1.22	A	"	"	"	"	4	
	5	"	"	"	"	M			7.13	1.81	A	2	35	8	WSHP-E	6	
	7	CWP-1	3	80	3	S	7.13	1.81		A	"	"	"	"	8	
	9	"	"	"	"	S		7.13	1.81	A	2	30	10	WSHP-D	10	
	11	"	"	"	"	S			7.13	1.81	A	"	"	"	12	
	13	BP-1	8	40	3	S	3.70	1.22		A	2	20	10	WSHP-H	14	
	15	"	"	"	"	S		3.70	1.22	A	"	"	"	"	16	
	17	"	"	"	"	S			3.70	1.80	S	3	20	12	LIFT STATION	18	
	19	EF-6	12	20	1	S	0.70	1.80		S	"	"	"	"	20	
	21	WSHP-H	10	20	2	A		1.22	1.80	S	"	"	"	"	22	
	23	"	"	"	"	A			1.22	2.00	S	3	30	10	TRASH COMPACTOR	24	
	25	SPACE					2.00			S	"	"	"	"	26	
	27	SPACE						2.00		S	"	"	"	"	28	
	29	SPACE												SPACE	30	
	31	SPACE												SPACE	32	
	33	SPACE												SPACE	34	
	35	SPACE												SPACE	36	
	37	SPACE												SPACE	38	
	39	SPACE												SPACE	40	
	41	SPACE												SPACE	42	
				Phase kVA			26.689	27.209	26.586							
				Total kVA			80.484	Total Amps	223.67							
				Total Demand kVA			85.830	Dem Load Amps	238.52							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 14.532 KVA @ 1.00 DF= 14.532 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 21.384 KVA, TOTAL + 25% OF LARGEST= 26.730 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 44.568 KVA @ 1.00 DF= 44.568 KVA

PANEL EQ1

MAIN BREAKER --- AMPS
MAIN LUGS 400 AMPS

BUS RATING 400 AMPS
A/C RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage	
3	42	Surface	1	120	208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	B-1	12	20	1	S	0.50				1	20		SPARE	2	
	3	SPARE		20	1						1	20		SPARE	4	
	5	SPARE		20	1						1	20		SPARE	6	
	7	SPARE		20	1						1	20		SPARE	8	
	9	SPARE		20	1						1	20		SPARE	10	
	11	CTP-1	2	90	3	M			5.54		1	20		SPARE	12	
	13	"	"	"	"	M	5.54	5.54		S	3	90	2	CTP-2	14	
	15	"	"	"	"	M		5.54	5.54	S	"	"	"	"	16	
	17	CT-1	10	30	3	A			2.00	5.54	S	"	"	"	18	
	19	"	"	"	"	A	2.00	2.00		S	3	30	10	CT-2	20	
	21	"	"	"	"	A		2.00	2.00	S	"	"	"	"	22	
	23	SPARE		20	1				2.00	S	"	"	"	"	24	
	25	ROOF RECEPT	12	20	1	R	0.54				1	20		SPARE	26	
	27	SPARE		20	1						1	20		SPARE	28	
	29	SPARE		20	1						1	20		SPARE	30	
	31	SPARE		20	1						1	20		SPARE	32	
	33	SPARE		20	1						1	20		SPARE	34	
	35	SPARE		20	1						1	20		SPARE	36	
	37	SPARE		20	1		14.39			A	3	150	1/0	RTU-1	38	
	39	SPARE		20	1			14.39		A	"	"	"	"	40	1
	41	SPARE		20	1				14.39	A	"	"	"	"	42	
				Phase kVA			30.509	29.469	29.469							
				Total kVA			89.447	Total Amps	248.57							
				Total Demand kVA			93.602	Dem Load Amps	260.12							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.540 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.540 KVA
A/C "A": 49.167 KVA @ 1.00 DF= 49.167 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 16.620 KVA, TOTAL + 25% OF LARGEST= 20.775 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 23.120 KVA @ 1.00 DF= 23.120 KVA

NOTES:
1 SUB-FEED BREAKER

PANEL SCHEDULE KEY

LE6	LE7
LE8	
LE10	EQ
	EQ1

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No.	Date	Revisions / Submissions	D.	CK.
12	10/13/2015	PENTHOUSE REVISIONS		
3	04/06/2015	PERMIT REVIEW COMMENTS		
2	03/16/2015	PERMIT REVIEW COMMENTS		
1	01/30/2015	PERMIT REVIEW COMMENTS		
	11/14/2014	PERMIT SET		
	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

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PANEL SCHEDULES

PROJECT NO.: 13270.99

E504

Label	Designation		AMP	Phase	Main	Circuit	Mount.	NEMA	Voltage			STYLE	A.I.C.
R2	R2		200	1	MLO	30	Surface	1	120	208		Loadcenter	10K

Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	A Phase Load KW		B Phase Load KW		Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #
1	WSHP #E	8	35	2	1.809							Space	2
3	"	"	"	"			1.809					Space	4
5	Space											Space	6
7	Space											Space	8
9	Space											Space	10
11	Space											Space	12
13	Space											Space	14
15	Space											Space	16
17	Space											Space	18
19	Space											Space	20
21	Space											Space	22
23	Space											Space	24
25	Space											Space	26
27	Space											Space	28
29	Space											Space	30
			KW No Demand		1.81		1.81		KW No Demand				

MAIN BREAKER --- AMPS
MAIN LUGS 600 AMPS
FEED-THRU LUGS

PANEL S8A — Phase 3 | Circuit 42 | Mount Surface | NEMA 1 | Voltage 120 | 208

BUS RATING 600 AMPS
AIC RATING 10,000 AMPS

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	AH-8-1	12	15	2	A	0.10							SPACE	2	
	3	"	"	"	"	A		0.10						SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
	31	SPACE												SPACE	32	
	33	SPACE												SPACE	34	
	35	SPACE												SPACE	36	
	37	SPACE								S	3	200	4/0	PANEL S8B	38	
	39	SPACE								S	"	"	"	"	40	1
	41	SPACE								S	"	"	"	"	42	
				Phase kVA			0.100	0.100	0.000							
				Total kVA			0.200	Total Amps	0.56							
				Total Demand kVA			0.200	Dem Load Amps	0.56							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.200 KVA @ 1.00 DF= 0.200 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.000 KVA @ 1.00 DF= 0.000 KVA

NOTES:
1 SUB-FEED BREAKER

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS

PANEL S8B — Phase 3 | Circuit 42 | Mount Surface | NEMA 1 | Voltage 120 | 208

BJS RATING 225 AMPS
A/C RATING 10,000 AMPS

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	SPACE												SPACE	2	
	3	SPACE												SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
	31	SPACE												SPACE	32	
	33	SPACE												SPACE	34	
	35	SPACE												SPACE	36	
	37	SPACE												SPACE	38	
	39	SPACE												SPACE	40	
	41	SPACE												SPACE	42	
				Phase kVA			0.000	0.000	0.000							
				Total kVA			0.000	Total Amps	0.00							
				Total Demand kVA			0.000	Dem Load Amps	0.00							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.000 KVA @ 1.00 DF= 0.000 KVA

MAIN BREAKER --- AMPS
MAIN LUGS 600 AMPS
FEED-THRU LUGS

PANEL S9A — Phase 3 | Circuit 42 | Mount Surface | NEMA 1 | Voltage 120 | 208

BUS RATING 600 AMPS
AIC RATING 10,000 AMPS

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	SPACE												SPACE	2	
	3	SPACE												SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
	31	SPACE												SPACE	32	
	33	SPACE												SPACE	34	
	35	SPACE												SPACE	36	
	37	SPACE					0.60			S	3	200	4/0	PANEL S9B	38	
	39	SPACE						0.60		S	"	"	"	"	40	1
	41	SPACE							0.40	S	"	"	"	"	42	
				Phase kVA			0.600	0.600	0.400							
				Total kVA			1.600	Total Amps	4.45							
				Total Demand kVA			1.600	Dem Load Amps	4.45							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.600 KVA @ 1.00 DF= 1.600 KVA

NOTES:
1 SUB-FEED BREAKER

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS

PANEL S9B — Phase 3 | Circuit 42 | Mount Surface | NEMA 1 | Voltage 120 | 208

BJS RATING 225 AMPS
A/C RATING 10,000 AMPS

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	AH-9-3	12	15	2	A	0.10	0.10		A	2	15	12	AH-9-7	2	
	3	"	"	"	"	A				A	"	"	"	"	4	
	5	AH-9-4	12	15	2	A			0.10	0.10	A	2	15	12	AH-9-2	6
	7	"	"	"	"	A	0.10	0.10			A	"	"	"	"	8
	9	AH-9-6	12	15	2	A		0.10	0.10		A	2	15	12	AH-9-1	10
	11	"	"	"	"	A			0.10	0.10	A	"	"	"	"	12
	13	AH-9-5	12	15	2	A	0.10	0.10			A	2	15	12	BC-1	14
	15	"	"	"	"	A		0.10	0.10		A	"	"	"	"	16
	17	SPACE													SPACE	18
	19	SPACE													SPACE	20
	21	SPACE													SPACE	22
	23	SPACE													SPACE	24
	25	SPACE													SPACE	26
	27	SPACE													SPACE	28
	29	SPACE													SPACE	30
	31	SPACE													SPACE	32
	33	SPACE													SPACE	34
	35	SPACE													SPACE	36
	37	SPACE													SPACE	38
	39	SPACE													SPACE	40
	41	SPACE													SPACE	42
				Phase kVA			0.600	0.600	0.400							
				Total kVA			1.600	Total Amps	4.45							
				Total Demand kVA			1.600	Dem Load Amps	4.45							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 1.600 KVA @ 1.00 DF= 1.600 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.000 KVA @ 1.00 DF= 0.000 KVA

MAIN BREAKER --- AMPS
MAIN LUGS 600 AMPS
FEED-THRU LUGS

PANEL S10A — Phase 3 | Circuit 42 | Mount Surface | NEMA 1 | Voltage 120 | 208

BUS RATING 600 AMPS
AIC RATING 10,000 AMPS

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	CU-V1	10	30	3	A	2.40	3.60		A	3	40	8	CU-V1	2	
	3	"	"	"	"	A			2.40	3.60	"	"	"	"	4	
	5	"	"	"	"	A					2.40	3.60	A	"	"	"	"	6
	7	CU-V1	8	40	3	A	3.60	2.40			A	3	30	10	CU-V1	8
	9	"	"	"	"	A			3.60	2.40	A	"	"	"	"	10
	11	"	"	"	"	A					3.60	2.40	A	"	"	"	"	12
	13	SPACE						2.40			A	3	30	10	CU-OAU	14
	15	SPACE							2.40		A	"	"	"	"	16
	17	SPACE								2.40	A	"	"	"	"	18
	19	SPACE													SPACE	20
	21	SPACE													SPACE	22
	23	SPACE													SPACE	24
	25	SPACE									S	3	100	3	PANEL PEQ	26
	27	SPACE									S	"	"	"	"	28
	29	SPACE									S	"	"	"	"	30
	31	SPACE						0.00			S	3	100	3	PANEL S10C	32
	33	SPACE							0.20		S	"	"	"	"	34
	35	SPACE								0.20	S	"	"	"	"	36
	37	SPACE						0.00			S	3	200	4/0	PANEL S10B	38
	39	SPACE							0.70		S	"	"	"	"	40
	41	SPACE								0.40	S	"	"	"	"	42
				Phase kVA			14.400	15.300	15.000							
				Total kVA			44.700	Total Amps	124.22							
				Total Demand kVA			44.700	Dem Load Amps	124.22							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 43.200 KVA @ 1.00 DF= 43.200 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 1.500 KVA @ 1.00 DF= 1.500 KVA

NOTES:
1 SUB-FEED BREAKER

PANEL SCHEDULE KEY

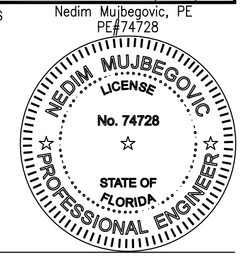
R2	S8A
S8B	S9A
S9B	S10A

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	05/23/2014	BID SET		

TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE AND ABILITY, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

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PANEL SCHEDULES

PROJECT NO.: 13270.99

E505

E505 | **PANEL SCHEDULES**
N.T.S.

PANEL S10B

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS

BUS RATING 225 AMPS
A/C RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	AH-10-2	12	15	2	A	0.10	0.10		A	2	15	12	AH-10-11	2	
	3	"	"	"	"	A		0.10	0.10	A	"	"	"	"	4	
	5	AH-10-3	12	15	2	A			0.10	0.10	A	2	15	12	AH-10-9	6	
	7	"	"	"	"	A	0.10	0.10		A	"	"	"	"	8	
	9	AH-10-4	12	15	2	A		0.10	0.10	A	2	15	12	AH-10-5	10	
	11	"	"	"	"	A			0.10	0.10	A	"	"	"	12	
	13	OAU-1	12	15	2	A	0.10	0.20		A	2	15	12	OAU-BC-1/BC-2	14	
	15	"	"	"	"	A		0.10	0.20	A	"	"	"	"	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
	31	SPACE												SPACE	32	
	33	SPACE												SPACE	34	
	35	SPACE												SPACE	36	
	37	SPACE												SPACE	38	
	39	SPACE												SPACE	40	
	41	SPACE												SPACE	42	
				Phase kVA			0.700	0.700	0.400							
				Total kVA			1.800	Total Amps	5.00							
				Total Demand kVA			1.800	Dem Load Amps	5.00							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 1.800 KVA @ 1.00 DF= 1.800 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.000 KVA @ 1.00 DF= 0.000 KVA

PANEL S10C

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS

BUS RATING 225 AMPS
A/C RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	AH-10-10	12	15	2	A	0.10	0.10		A	2	15	12	AH-10-6	2	
	3	"	"	"	"	A		0.10	0.10	A	"	"	"	"	4	
	5	SPACE							0.10	0.10	A	2	15	12	AH-10-8	6	
	7	SPACE					0.10			A	"	"	"	"	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
	31	SPACE												SPACE	32	
	33	SPACE												SPACE	34	
	35	SPACE												SPACE	36	
	37	SPACE												SPACE	38	
	39	SPACE												SPACE	40	
	41	SPACE												SPACE	42	
				Phase kVA			0.300	0.200	0.200							
				Total kVA			0.700	Total Amps	1.55							
				Total Demand kVA			0.600	Dem Load Amps	1.67							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.600 KVA @ 1.00 DF= 0.600 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.000 KVA @ 1.00 DF= 0.000 KVA

PANEL PEQ

MAIN BREAKER --- AMPS
MAIN LUGS 225 AMPS

BUS RATING 225 AMPS
A/C RATING 10,000 AMPS

Phase	Circuit	Mount	NEMA	Voltage
3	42	Surface	1	120 / 208

NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES
	1	SPACE												SPACE	2	
	3	SPACE												SPACE	4	
	5	SPACE												SPACE	6	
	7	SPACE												SPACE	8	
	9	SPACE												SPACE	10	
	11	SPACE												SPACE	12	
	13	SPACE												SPACE	14	
	15	SPACE												SPACE	16	
	17	SPACE												SPACE	18	
	19	SPACE												SPACE	20	
	21	SPACE												SPACE	22	
	23	SPACE												SPACE	24	
	25	SPACE												SPACE	26	
	27	SPACE												SPACE	28	
	29	SPACE												SPACE	30	
				Phase kVA			0.000	0.000	0.000							
				Total kVA			0.000	Total Amps	0.00							
				Total Demand kVA			0.000	Dem Load Amps	0.00							

LIGHTING "L": 0.000 KVA @ 1.25 DF= 0.000 KVA
RECEPT "R": 0.000 KVA, 1ST 10KVA + 50% OF REMAINDER= 0.000 KVA
A/C "A": 0.000 KVA @ 1.00 DF= 0.000 KVA
KITCHEN "K": 0.000 KVA @ .65 DF= 0.000 KVA
MOTOR "M": 0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA
HEATING "H": 0.000 KVA @ 1.00 DF= 0.000 KVA
MISC "S": 0.000 KVA @ 1.00 DF= 0.000 KVA

PANEL SCHEDULE KEY

S10B	S10C
PEQ	

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PANEL SCHEDULES

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E506

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