ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMP	AMPERE
APPROX	APPROXIMATE
AVG	AVERAGE
B.O.P	BOTTOM OF PIPE
BFP	BACKFLOW PREVENTION DEVICE
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
C TO C	CENTER TO CENTER
C/D	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUT
CO_2	CARBON DIOXIDE
COND	CONDENSATE
CR	CONDENSER RETURN
CS	CONDENSER SUPPLY
CONT	CONTINUED
CPVC	CHLORINATED POLYVINYL CHLORIDE
CW	COLD WATER (DOMESTIC)
DB	DRY BULB
DEG	DEGREE
DIAM	DIAMETER
DN	DOWN
DTTV	DOUBLE THICK TURNING VANES
DWG	DRAWING
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
(ED)	EXISTING TO BE DEMOLISHED
(ETR)	EXISTING TO BE RELOCATED
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERIOR
°F	DEGREE FAHRENHEIT
FD	FLOOR DRAIN
FIN	FINISH
FF	FINISHED FLOOR
FLR	FLOOR
FO	FUEL OIL
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS OF MOISTURE
GRD	GROUND
GWH	GAS WATER HEATER
H	ENTHALPY
HC	HANDICAP
HD	HEAD
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTR	HEATER
HVAC	HEATING VENTILATION AIR CONDITIONING
HW	HOT WATER (DOMESTIC)
HZ	FREQUENCY-ELECTRICAL
ID	INSIDE DIAMETER
ID	INDIRECT DRAIN
IE	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LL	LOW LEVEL
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER
MPCR	MEDIUM PRESSURE CONDENSATE RETURN
(N)	NEW
NA	NOT APPLICABLE
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OED	OPEN END DUCT
PG	PRESSURE GAUGE
PH	PHASE-ELECTRICAL
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
QT	QUART
RA	RETURN AIR
RD	ROOF DRAIN
REQ	REQUIRED
RG	RETURN AIR GRILLE
RH	RELATIVE HUMIDITY
(RL)	RELOCATED
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RR	RETURN AIR REGISTER
RWC	RAIN WATER CONDUCTOR
RPZ	REDUCED PRESSURE ZONE BFP
SA	SUPPLY AIR
SAN	SANITARY WASTE
SCH	SCHEDULE
SD	SUPPLY AIR DIFFUSER
SF	SQUARE FEET
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STR	STRAINER
STRUC	STRUCTURAL
SUCT	SUCTION
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TEMP	TEMPERATURE
THERM	THERMOMETER
T.O.P	TOP OF PIPE
TP	TRAP PRIMER
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UTIL	UTILITY
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
W/	WITH
WB	WET BULB TEMPERATURE
WH	WALL HYDRANT
WP	WEATHERPROOF
W/O	WITHOUT

MECHANICAL GENERAL NOTES

1. ALL WORK IS TO BE IN COMPLIANCE WITH THE 2021 INTERNATIONAL MECHANICAL CODE OR LOCAL CODE HAVING JURISDICTION. NOT ALL CODE REQUIREMENTS HAVE BEEN DESCRIBED IN THIS SPECIFICATION OR INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE CODES AND INSTALL THE WORK IN ACCORDANCE WITH CODES.
2. OBTAIN AND PAY FOR BUILDING PERMITS, INSPECTIONS, CONNECTION CHARGES, AND FEES.
3. THE CONTRACTOR IS TO SURVEY AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID SUBMISSION AND BECOME AWARE OF ALL CONDITIONS WHICH MAY IMPACT THE REQUIRED WORK. CONTRACTOR IS TO INCLUDE ALL ASSOCIATED COSTS (MATERIALS/ LABOR) DETERMINED TO BE REQUIRED DURING SITE INSPECTIONS. CONTRACTOR'S BID SUBMISSION IS TO BE CONSIDERED PROOF THAT THIS REQUIREMENT HAS BEEN MET.
4. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE TAKEN AS A WHOLE. IF A CONFLICT OR CONTRADICTION EXISTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT WILL APPLY. THE ARCHITECT'S AND ENGINEER'S INTERPRETATION OF THE DOCUMENTS ARE TO BE BINDING UPON THE CONTRACTOR.
5. ALL WORK IS TO BE COORDINATED WITH, AND APPROVED BY THE OWNER PRIOR TO ANY SHUT-DOWNS. ALL REQUESTS ARE TO BE SUBMITTED, IN WRITING, TO THE OWNER 24, TO 48 HOURS PRIOR TO REQUESTED DELETIONS.
6. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO PURCHASING EQUIPMENT. VERIFY ALL VOLTAGE AND AMPERE REQUIREMENTS FOR FEEDERS, AND MOCP DEVICES.
7. ALL EXTERIOR WALL/ ROOF PENETRATIONS ARE TO BE SEALED, AIR, AND WATER-TIGHT. ALL PIPING PASSING THROUGH WALL, OR FLOOR PENETRATIONS IS TO HAVE SLEEVES. ALL WALL, OR FLOOR-RATED PENETRATIONS ARE TO BE SEALED WITH FIRE-RATED SEALANT FORMED IN PLACE (BY 3M OR HILTI).
8. PROVIDE ALL ACCESS DOORS FOR ALL VALVES, DAMPERS, DEVICES, CONTROLLERS, ETC. WHICH MAY REQUIRE SERVICE. ALL ACCESS PANELS ARE BE 16 GAUGE STEEL FRAME, 20 GAUGE HINGED DOOR, LOCKABLE, AND FIRE-RATED (WHEN INSTALLED IN RATED WALLS, FLOORS, "B" LABEL, 1-1/2 HOURS). FINISH AS SELECTED BY THE ARCHITECT.
9. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT TO BE REVIEWED BY THE ENGINEER PRIOR TO ORDERING. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR, AND PHYSICAL DIMENSIONS PRIOR TO SHOP DRAWING SUBMISSION.
10. SUBMIT SHOP DRAWINGS OF ALL SHEET METAL FOR REVIEW. DRAWINGS ARE TO BE NOT LESS THAN 1/4"=1'-0" SCALE AND ARE TO INDICATE ALL STEEL, PIPING, CONDUIT WIRING METHODS, LIGHTING FIXTURES, SPRINKLER, EQUIPMENT, AND ARCHITECTURAL FEATURES. DUCTWORK IS TO BE INDICATED DOUBLE-LINE. INDICATE DETAIL OF FIRE DAMPER, SHEET METAL SHOP DRAWING WILL BE UTILIZED FOR CONTRACTOR'S COORDINATION DRAWINGS AND IS TO BE SUBMITTED FOR REVIEW, AND APPROVAL PRIOR TO INSTALLATION. IF SHEET METAL SHOP DRAWINGS ARE NOT SUBMITTED, OR IF THE CONTRACTOR INSTALLS THE DUCTWORK WITHOUT PRIOR APPROVALS, THE CONTRACTOR IS TO ASSUME ALL RESPONSIBILITIES AND FIELD COORDINATION, AND PAY ALL ASSOCIATED COSTS ASSOCIATED WITH DUCTWORK INSTALLATION DEFICIENCIES, AND FIELD COORDINATION ISSUES.
11. ALL DUCTWORK IS TO COMPLY WITH NFPA PAMPHLET 90 A. ALL DUCTWORK SEAMS ARE TO BE SEALED WITH DUCT SEALANT. ALL NEW DUCTWORK SECTIONS AND FITTINGS TO BE INSTALLED ON THE PROJECT ARE TO BE COVERED, AND SEALED FROM DUST, DIRT, DEBRIS.
12. PROVIDE THIRD-PARTY TEST, BALANCE, AND ADJUST REPORT FOR ALL AIR SYSTEMS AT THE COMPLETION OF THE WORK. BALANCE AIR QUANTITIES TO VALUES AS INDICATED ON THE DRAWINGS. SET DAMPER POSITIONS. ALLOW FOR ONE SHEAVE CHANGE PER EACH (50%) OF THE HVAC SYSTEMS. PROVIDE ONE SPEED TAP ADJUSTMENT FOR DIRECT DRIVE SYSTEMS PER EACH (100%) OF THE HVAC SYSTEMS. PROVIDE TOTAL AND STATIC PRESSURE READINGS, TRAVERSE AT FAN INLETS, AND OUTLETS. T.B.A. CONTRACTOR IS TO BE INDEPENDENT, AND AABC/ NEBB CERTIFIED.
13. NO PVC PIPING IS PERMITTED IN RETURN AIR PLENUMS.
14. ALL THREE PHASE STARTER EQUIPMENT IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR AND IS TO BE MAGNETIC, ACROSS-THE-LINE WITH AUXILIARY CONTACTS. ALL SINGLE PHASE STARTER EQUIPMENT IS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
15. PROVIDE CONDENSATE DRAIN TO ACCEPTABLE CODE APPROVED DISCHARGE POINT, 1-1/2" COPPER. ALL CONDENSATE PIPING IS TO HAVE 1/2" FIBERGLASS INSULATION WITH VAPOR BARRIER. PROVIDE CONDENSATE PUMP(S) WITH DISCHARGE CHECK VALVE(S) IF GRAVITY FLOW IS NOT OBTAINABLE. SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL AND COORDINATE ELECTRICAL WORK WITH THE ELECTRICAL CONTRACTOR.
16. PROVIDE FIRE DAMPERS IN ALL RATED WALL/ FLOOR/ SHAFT ASSEMBLIES WHERE INDICATED ON THE ARCHITECTURAL PLANS. FIRE DAMPERS ARE TO BE INSTALLED IN ACCORDANCE WITH THE UL LISTING FOR THE DAMPER AND AS DETAILED AS ON THE DRAWINGS, AND DETAILS. THE DAMPERS ARE TO BE SET IN A STEEL SLEEVE, AND ARE TO BE PROVIDED WITH BREAKAWAY CONNECTIONS. DAMPERS ARE TO BE 1-1/2 HOUR RATED. PROVIDE SMOKE DAMPERS IN ALL SMOKE-RATED WALLS/ PARTITIONS PER THE ARCHITECTURAL PLANS. COORDINATE ALL LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL, AND FIRE ALARM CONTRACTORS.
17. PROVIDE INSULATED PREFABRICATED ROOF CURB FOR ROOF-MOUNTED EQUIPMENT, DUCTWORK, AND PIPING AS MANUFACTURED BY THE ROOF-MOUNTED EQUIPMENT MANUFACTURER. ALL DUCT/ PIPING ROOF PENETRATIONS ARE TO HAVE ROOF CURBS. ALL ROOF CURBS ARE TO BE SECURED TO THE ROOF AND COORDINATED WITH THE OWNER'S ROOFING CONTRACTOR.
18. ALL FINISHES RELATED TO MECHANICAL EQUIPMENT, TERMINAL EQUIPMENT, AIR DEVICES, PERIMETER HEATERS, LOUVERS, ACCESS PANELS, EXPOSED WIREMOLD/ RACEWAYS, ETC. ARE TO BE COORDINATED AND SELECTED BY THE ARCHITECT/ OWNER/ ENGINEER PRIOR TO SHOP DRAWING SUBMISSION, ORDERING, AND INSTALLATION.
19. FINAL LOCATIONS OF ALL THERMOSTATS, ACCESS PANELS, SPACE SENSORS, DETECTION DEVICES, ETC. IN FINISHED SPACES ARE TO BE COORDINATED AND APPROVED BY THE ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
20. PROVIDE NEW MERV 13 FILTERS FOR ALL NEW HVAC EQUIPMENT. CONTRACTOR IS TO PROVIDE ONE SPARE SET OF MERV 13 FILTERS FOR EACH HVAC SYSTEM, AND TURN OVER TO THE OWNER.
21. THE CONTRACTOR IS TO BE RESPONSIBLE FOR PROVIDING AUXILIARY DEHUMIDIFICATION UNITS THROUGHOUT THE BUILDING AFTER THE BUILDING IS ENCLOSED, DRYWALL, AND PAINTING IS FINISHED. THE DEHUMIDIFICATION UNITS ARE TO REMAIN IN OPERATION UNTIL UNIT TURN-OVER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISCHARGE ALL CONDENSATE AND PROVIDE MEANS FOR POWER.
22. THE CONTRACTOR IS TO PROVIDE MANUFACTURER'S START-UP OF ALL EQUIPMENT, AND SYSTEMS.
23. PROPERLY INSTRUCT OWNER'S PERSONNEL IN THE OPERATION AND MAINTENANCE OF ALL SYSTEMS AND EQUIPMENT. PROVIDE THREE INSTRUCTION AND MAINTENANCE MANUALS. SUBMIT MANUALS FOR REVIEW PRIOR TO OPERATING INSTRUCTION.
24. COORDINATE LOCATIONS AND ROUGH-IN REQUIREMENTS WITH ALL TRADES PRIOR TO INSTALLATION.
25. IF THE CONTRACTOR ELECTS TO SUBMIT ALTERNATE EQUIPMENT, MANUFACTURERS, SYSTEMS, METHODS, OR MATERIALS NOT SPECIALLY IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK WITH OTHER TRADES AND PAY FOR ANY ADDITIONAL COSTS ASSOCIATED WITH THE SUBSTITUTION OR CHANGE.
26. PROVIDE ONE SET OF ELECTRONIC AS-BUILT DRAWINGS AT COMPLETION OF WORK. SUBMIT TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.
27. ALL DUCTWORK AND AIR TERMINAL UNITS IN EXPOSED CEILINGS TO BE PAINTED / PAINTABLE TO MATCH P-4 ON FINISH SCHEDULE. LIMIT FLEXIBLE DUCTWORK TO 3 FEET MAXIMUM.

PROJECT DEDUCT/ADD ALTERNATES

1. FIREPLACE ON SECOND FLOOR.
2. PROVIDE DUCT-MOUNTED HUMIDIFICATION TO AREAS IDENTIFIED BY THE OWNER. DISPERSION MANIFOLD TYPE INSTALLED ON THE SUPPLY DUCTS SERVING THE AREAS IN QUESTION.
3. PROVIDE A PACKAGED DUCTED DE-HUMIDIFIER TO THE LOCAL HISTORY COLLECTION ROOM 203. OWNER TO CONFIRM.

CONTRACTOR NOTES

CONTRACTOR TO PROVIDE NEW BUILDING AUTOMATION SYSTEM (BAS). REFER TO SPECIFICATIONS SECTION 230933. ALL NEW EQUIPMENT TO BE INTEGRATED TO THE NEW BAS AND OPERATE AS INDICATED ON THE SPECIFICATIONS.

LIST OF EQUIPMENT TO BE INTEGRATED TO THE BAS:
1. ROOFTOP UNITS
2. VAV / FTU UNITS
3. EXHAUST FANS
4. PERIMETER HEATING
5. LIGHTING CONTROL PANEL
6. SECURITY / ACCESS

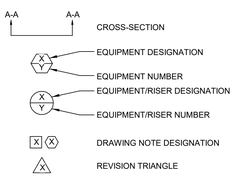
THIS IS A **MULTIPLE PRIME CONTRACT** PROJECT.
CONTRACTOR SHALL REFER TO THE "PRIME CONTRACTOR CHECKLIST" SECTION 011201 OF THE SPECIFICATIONS FOR A DETAILED DIVISIONS OF RESPONSABILITIES.

DRAWING LIST

Drawing List- PH 2- Mechanical

NUMBER	NAME	DEMO PACKAGE PH 1 11/04/24	SCHEMATIC DESIGN 10/25/24	ADDENDUM 2 02/05/25	DESIGN DEVELOPMENT 02/21/25	50% CD PROGRESS SET 06/05/2025	75% CD SET 08/22/25	BID/PERMIT SET 10/03/25	Current Revision	Current Revision Date	Current Revisions
M0.1	COVER SHEET- MECHANICAL	•	•		•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
MD2.1a	FIRST FLOOR DEMOLITION PLAN AREA A- PH 2- MECHANICAL		•		•			•			
MD2.1b	FIRST FLOOR DEMOLITION PLAN AREA B- PH 2- MECHANICAL		•		•			•			
MD2.2a	SECOND FLOOR DEMOLITION PLAN AREA A- PH 2- MECHANICAL		•		•			•			
MD2.2b	SECOND FLOOR DEMOLITION PLAN AREA B- PH 2- MECHANICAL		•		•			•			
MD2.3a	ROOF DEMOLITION PLAN- AREA A- PH 2- MECHANICAL	•	•					•			
MD2.3b	ROOF DEMOLITION PLAN- AREA B- PH 2- MECHANICAL	•	•					•			
M1.0	GROUND FLOOR NEW CONSTRUCTION PLAN- MECHANICAL		•		•	•	•	•			
M1.1a	FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- MECHANICAL		•		•	•	•	•			
M1.1b	FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- MECHANICAL		•		•	•	•	•			
M1.2a	SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- MECHANICAL		•		•	•	•	•			
M1.2b	SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- MECHANICAL		•		•	•	•	•			
M1.3	ROOF PLAN NEW CONSTRUCTION PLAN- MECHANICAL		•		•	•	•	•			
M2.1	DETAILS- MECHANICAL		•		•	•	•	•			
M2.2	DETAILS- MECHANICAL		•		•	•	•	•			
M2.3	DETAILS- MECHANICAL		•		•	•	•	•			
M2.4	DETAILS- MECHANICAL		•		•	•	•	•			
M3.1	SCHEDULES- MECHANICAL		•		•	•	•	•			
M3.2	SCHEDULES- MECHANICAL		•		•	•	•	•			
M3.3	SCHEDULES- MECHANICAL		•		•	•	•	•			

DRAWING SYMBOLS LIST



DESIGN NOTES

1. DESIGN CONDITIONS

   SIZING, DESIGN AND PERFORMANCE OF THE HEATING AND COOLING SYSTEMS ARE BASED ON THE FOLLOWING DESIGN CHARACTERISTICS. MODIFICATION OF ANY OF THESE CHARACTERISTICS MAY ADVERSELY AFFECT THE HEATING AND COOLING PERFORMANCE AND LEVEL OF COMFORT TO THE BUILDING OCCUPANTS.

   WEATHER STATION LOCATIONS - PHILADELPHIA, PA
   HEATING DEGREE DAYS = 4589

   OUTDOOR:
   WINTER DRY BULB 14°F
   SUMMER DRY BULB 90°F
   SUMMER WET BULB 74°F
   INDOOR:
   WINTER DRY BULB 70°F
   SUMMER DRY BULB 75°F

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05/05/2026

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DRAWN BY:	RC
CHECKED BY:	-
SCALE:	AS NOTED

COVER SHEET - MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DEMO PACKAGE PH 1	11/04/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25
3	CODE UPDATE CHANGES	04/10/26

M0.1

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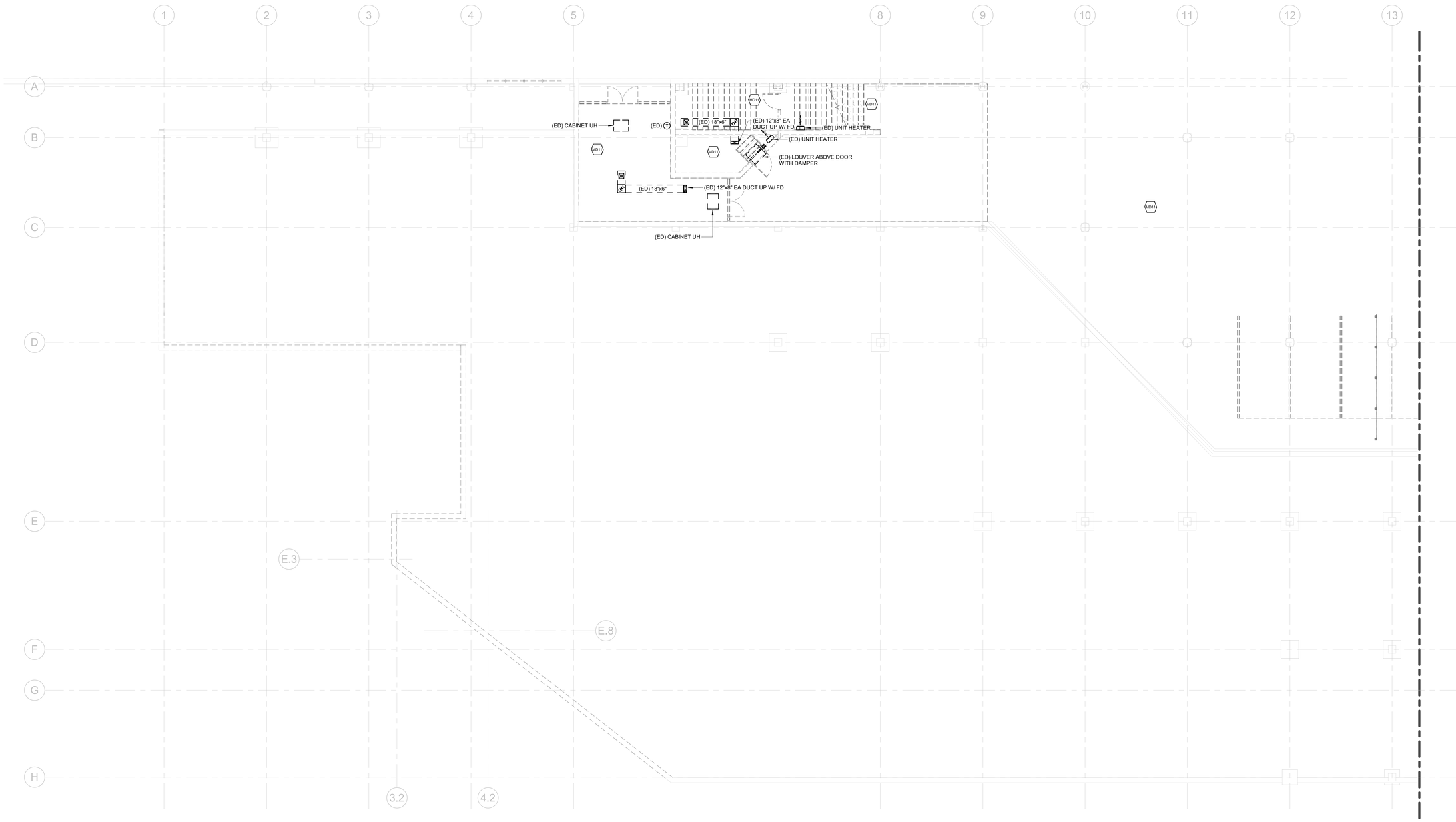


1 GROUND FLOOR DEMOLITION PLAN- PH 2 AREA A- MECHANICAL

SCALE: NONE

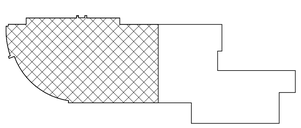
MECHANICAL DEMOLITION KEYNOTES NOTED THUS

MD11 MECHANICAL CONTRACTOR TO DEMOLISH ALL REMAINING MECHANICAL SYSTEMS IN THIS AREA (WETHER SHOWN ON THIS PLAN OR NOT). THIS INCLUDES, BUT NOT LIMITED TO: DUCTWORK, PIPING, EQUIPMENT, HEATERS, FANS, AIR DEVICES, CONTROLS, CONTROL WIRING, AND ACCESSORIES.

MECHANICAL DEMO NOTES:

1. CONTRACTOR SHALL DEMOLISH ALL EXISTING HVAC SYSTEMS IN THEIR ENTIRETY. THIS INCLUDES: CHILLERS, BOILERS, PUMPS, REFRIGERANT PIPING, CHILLED WATER PIPING, HEATING HOT WATER PIPING, ELECTRIC AND HOT WATER HEATERS, DUCTWORK, DUCT ACCESSORIES, SPLIT SYSTEMS, HEAT PUMPS, PACKAGED SYSTEMS, VARIABLE AIR TERMINALS, EXHAUST FANS, AIR DEVICES, AND CONTROLS (DEVICES AND WIRING).
2. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE IN ORDER TO BEST UNDERSTAND THE SCOPE OF THE DEMOLITION WORK.
3. ALL DEMOLISHED MATERIALS SHALL BE RECYCLED WHEREVER POSSIBLE. ANY HAZARDOUS MATERIALS SHALL BE HANDLED ACCORDING TO GOVERNMENT REGULATION AND DISPOSED OF IN A SAFE MANNER.
4. CONTRACTOR SHALL DEMOLISH EXISTING DUCTWORK TO POINT WHERE INDICATED ON THE DRAWING. CONTRACTOR TO COORDINATE ALL WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
5. CONTRACTOR TO PATCH AND SEAL ALL WALL AND ROOF OPENINGS CREATED DURING TESTING AND DEMOLITION.

KEY PLAN



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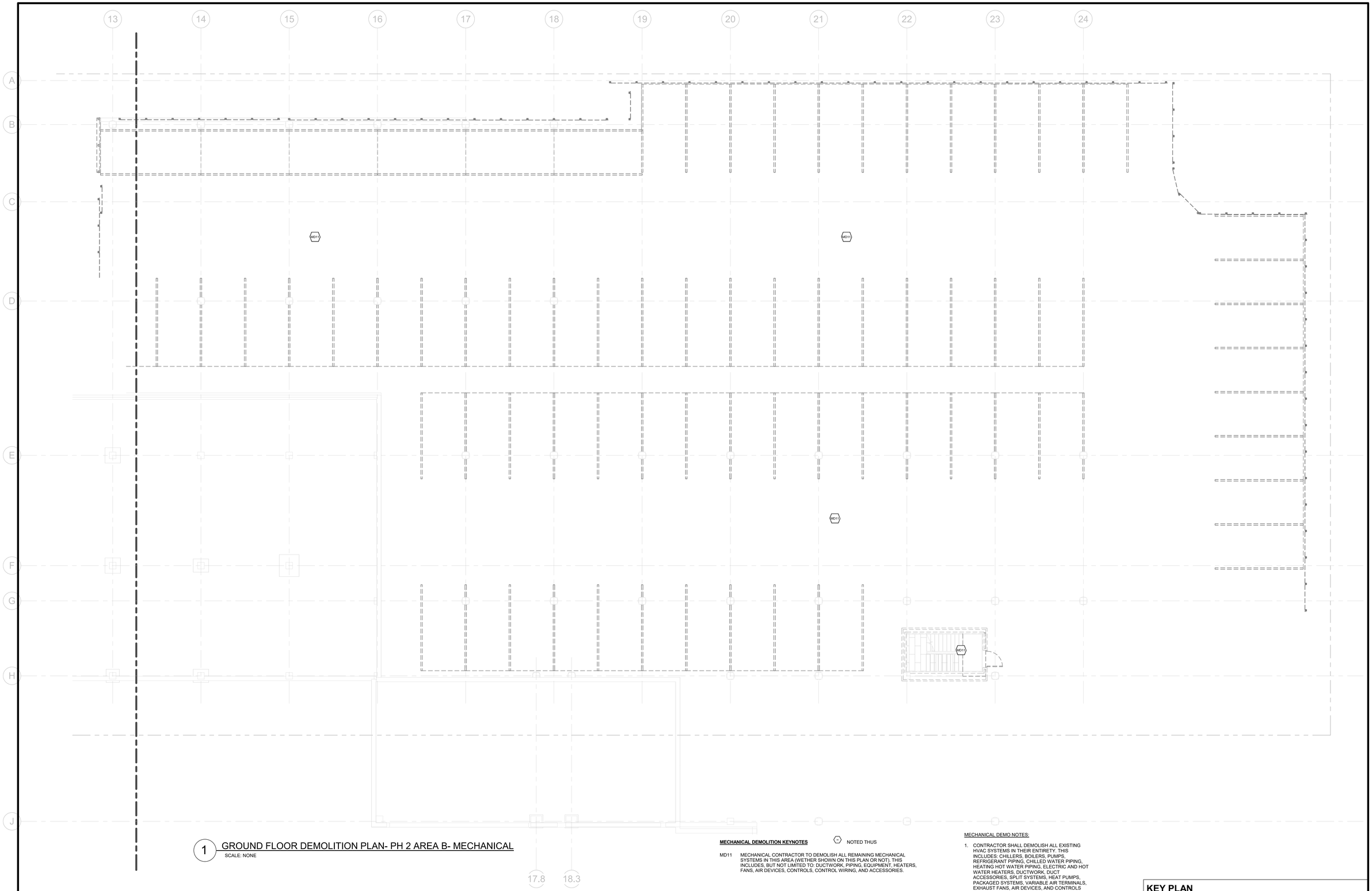
GROUND FLOOR DEMOLITION PLAN AREA A- PH 2- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DEMO PACKAGE PH 1	11/04/24
	BID & PERMIT	10/03/25

MD2.0A



1 GROUND FLOOR DEMOLITION PLAN- PH 2 AREA B- MECHANICAL

SCALE: NONE

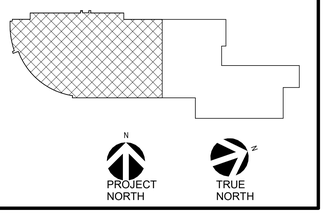
MECHANICAL DEMOLITION KEYNOTES (X) NOTED THUS

MD11 MECHANICAL CONTRACTOR TO DEMOLISH ALL REMAINING MECHANICAL SYSTEMS IN THIS AREA (WETHER SHOWN ON THIS PLAN OR NOT). THIS INCLUDES, BUT NOT LIMITED TO: DUCTWORK, PIPING, EQUIPMENT, HEATERS, FANS, AIR DEVICES, CONTROLS, CONTROL WIRING, AND ACCESSORIES.

MECHANICAL DEMO NOTES:

1. CONTRACTOR SHALL DEMOLISH ALL EXISTING HVAC SYSTEMS IN THEIR ENTIRETY. THIS INCLUDES: CHILLERS, BOILERS, PUMPS, REFRIGERANT PIPING, CHILLED WATER PIPING, HEATING HOT WATER PIPING, ELECTRIC AND HOT WATER HEATERS, DUCTWORK, DUCT ACCESSORIES, SPLIT SYSTEMS, HEAT PUMPS, PACKAGED SYSTEMS, VARIABLE AIR TERMINALS, EXHAUST FANS, AIR DEVICES, AND CONTROLS (DEVICES AND WIRING).
2. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE IN ORDER TO BEST UNDERSTAND THE SCOPE OF THE DEMOLITION WORK.
3. ALL DEMOLISHED MATERIALS SHALL BE RECYCLED WHEREVER POSSIBLE. ANY HAZARDOUS MATERIALS SHALL BE HANDLED ACCORDING TO GOVERNMENT REGULATION AND DISPOSED OF IN A SAFE MANNER.
4. CONTRACTOR SHALL DEMOLISH EXISTING DUCTWORK TO POINT WHERE INDICATED ON THE DRAWING. CONTRACTOR TO COORDINATE ALL WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
5. CONTRACTOR TO PATCH AND SEAL ALL WALL AND ROOF OPENINGS CREATED DURING TESTING AND DEMOLITION.

KEY PLAN



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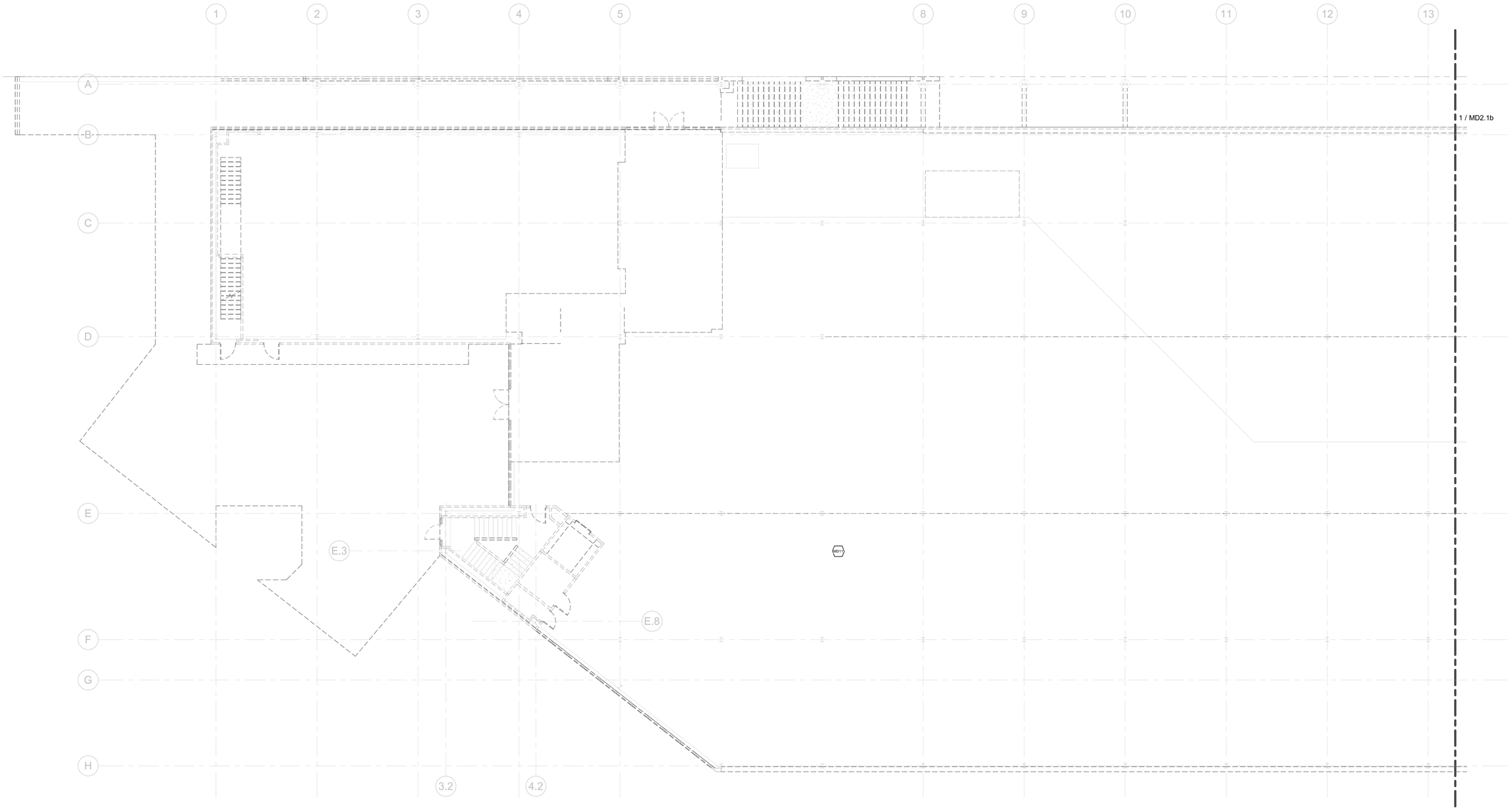
CONSTRUCTION ISSUE DATE:	DRAWN BY: RC	CHECKED BY:-	SCALE:AS NOTED

GROUND FLOOR DEMOLITION PLAN AREA B- PH 2- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DEMO PACKAGE PH 1	11/04/24
	BID & PERMIT	10/03/25

MD2.0B



1 FIRST FLOOR DEMOLITION PLAN- PH 2- AREA A- MECHANICAL
1/8" = 1'-0"

MECHANICAL DEMOLITION... ⬡ NOTED THUS

MD11 MECHANICAL CONTRACTOR TO DEMOLISH ALL REMAINING MECHANICAL SYSTEMS IN THIS AREA (WETHER SHOWN ON THIS PLAN OR NOT). THIS INCLUDES, BUT NOT LIMITED TO: DUCTWORK, PIPING, EQUIPMENT, HEATERS, FANS, AIR DEVICES, CONTROLS, CONTROL WIRING, AND ACCESSORIES.

MECHANICAL DEMO NOTES:

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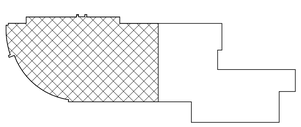
4. CONTRACTOR SHALL DEMOLISH EXISTING DUCTWORK TO POINT WHERE INDICATED ON THE DRAWING. CONTRACTOR TO COORDINATE ALL WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
5. CONTRACTOR TO PATCH AND SEAL ALL WALL AND ROOF OPENINGS CREATED DURING TESTING AND DEMOLITION.

KEY PLAN



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FIRST FLOOR DEMOLITION PLAN AREA A- PH 2- MECHANICAL

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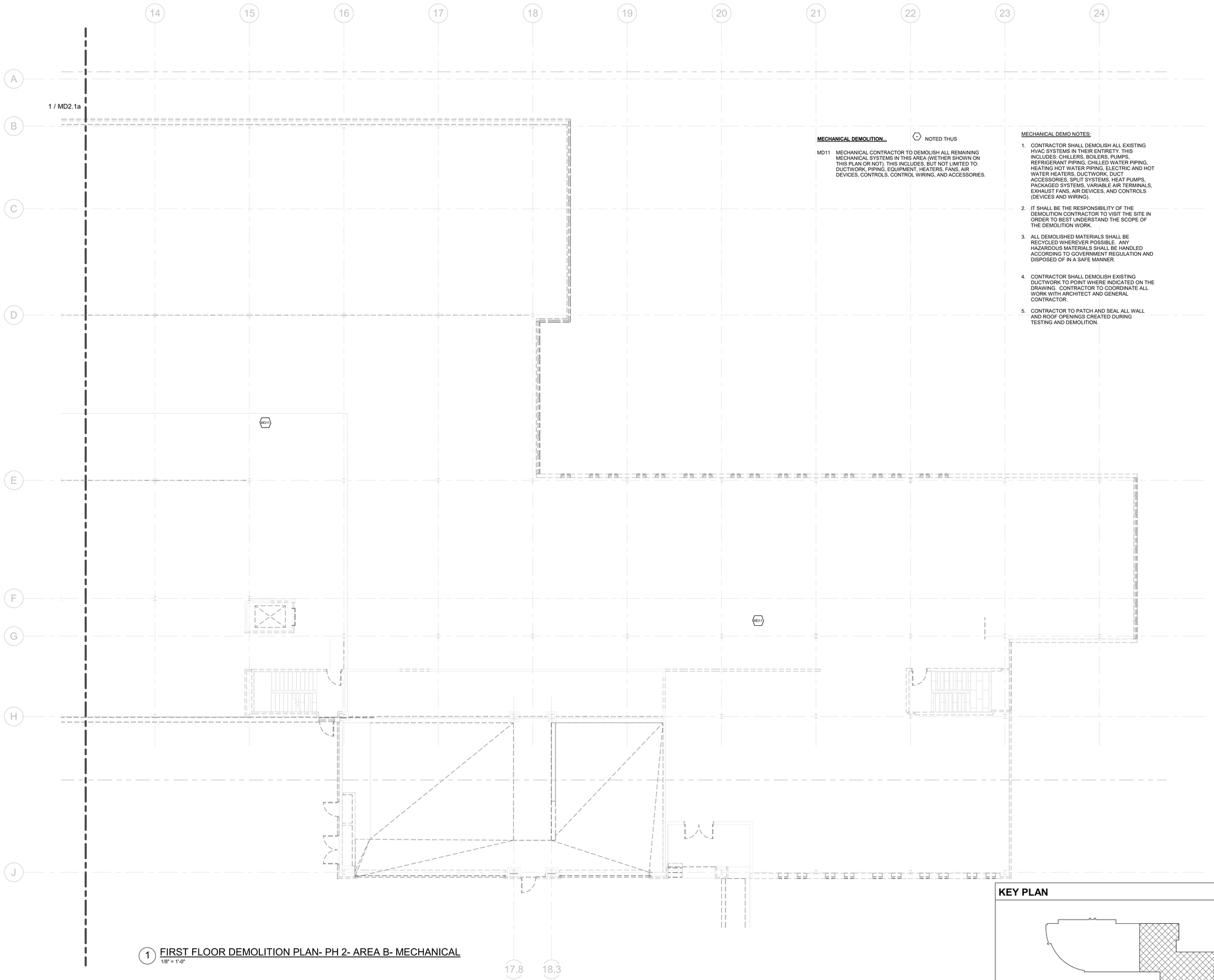
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

MD2.1a



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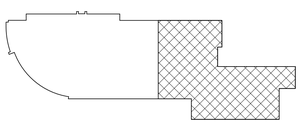

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FIRST FLOOR DEMOLITION PLAN AREA B- PH 2- MECHANICAL

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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

MD2.1b

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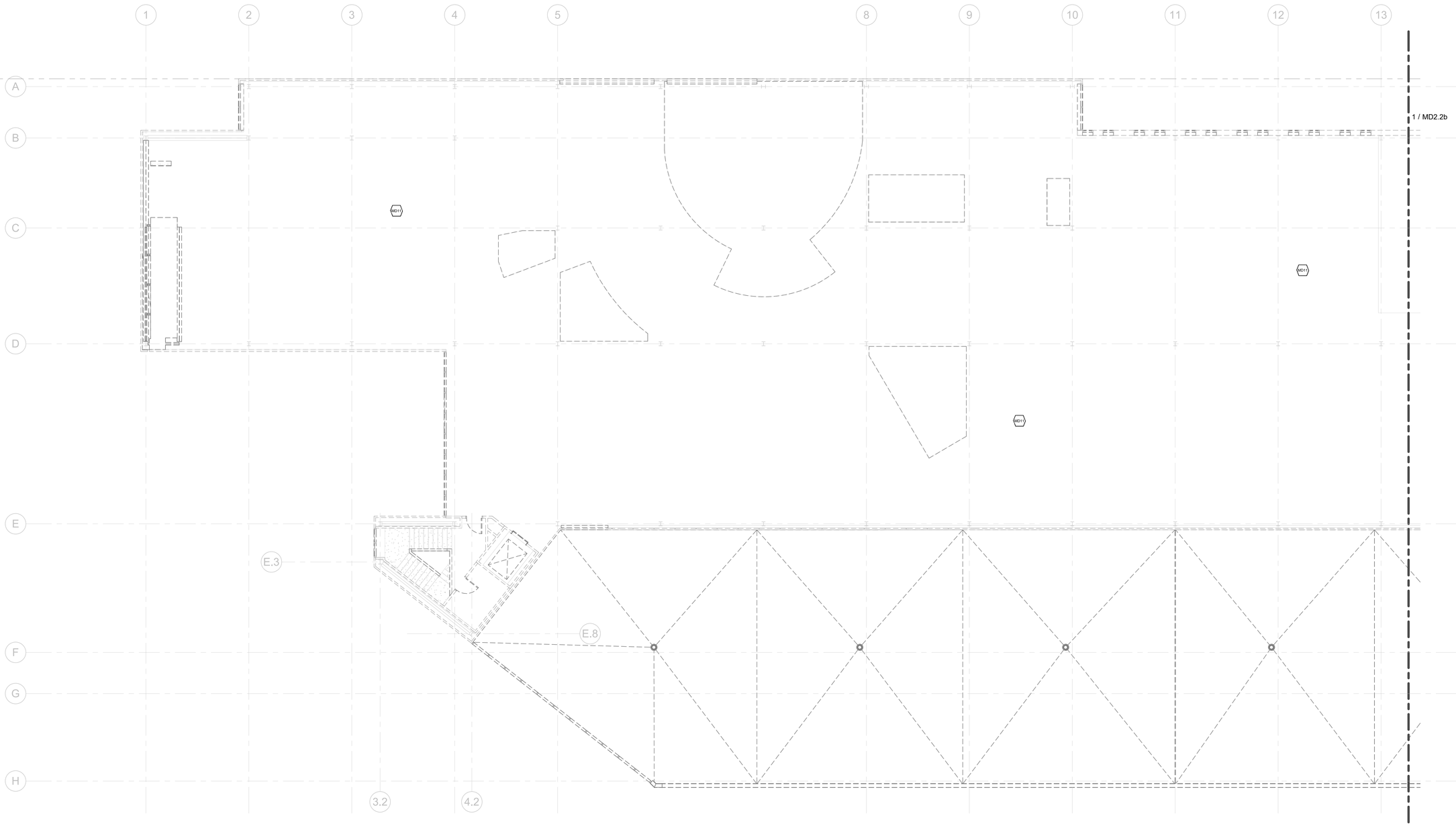

1 SECOND FLOOR DEMOLITION PLAN- PH 2- AREA A- MECHANICAL

1/8" = 1'-0"

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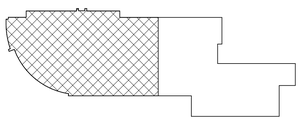

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SECOND FLOOR DEMOLITION PLAN AREA A- PH 2- MECHANICAL

NO.	DESCRIPTION	DATE
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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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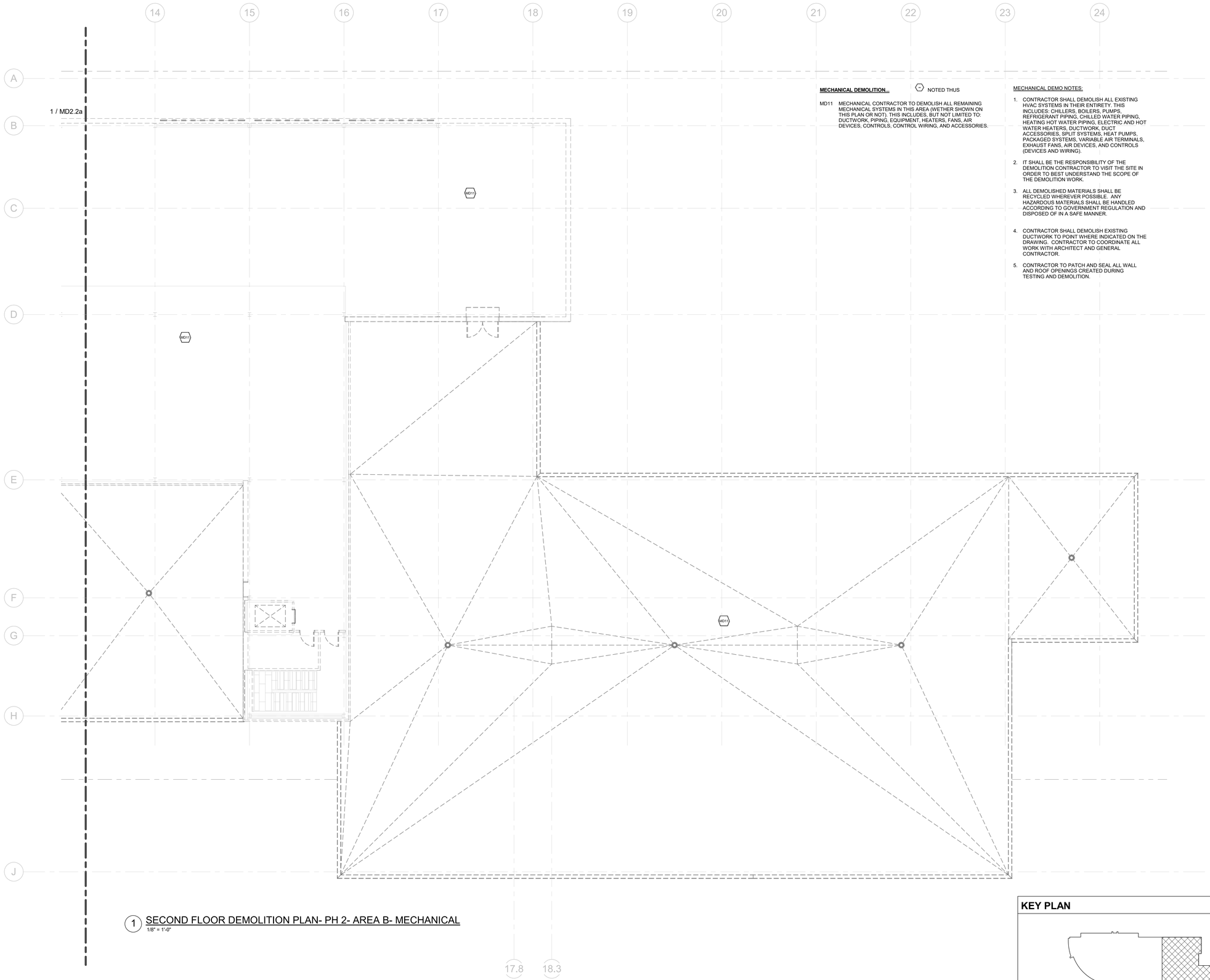

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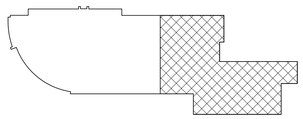
1 SECOND FLOOR DEMOLITION PLAN- PH 2- AREA B- MECHANICAL
1/8" = 1'-0"

KEY PLAN



N PROJECT NORTH

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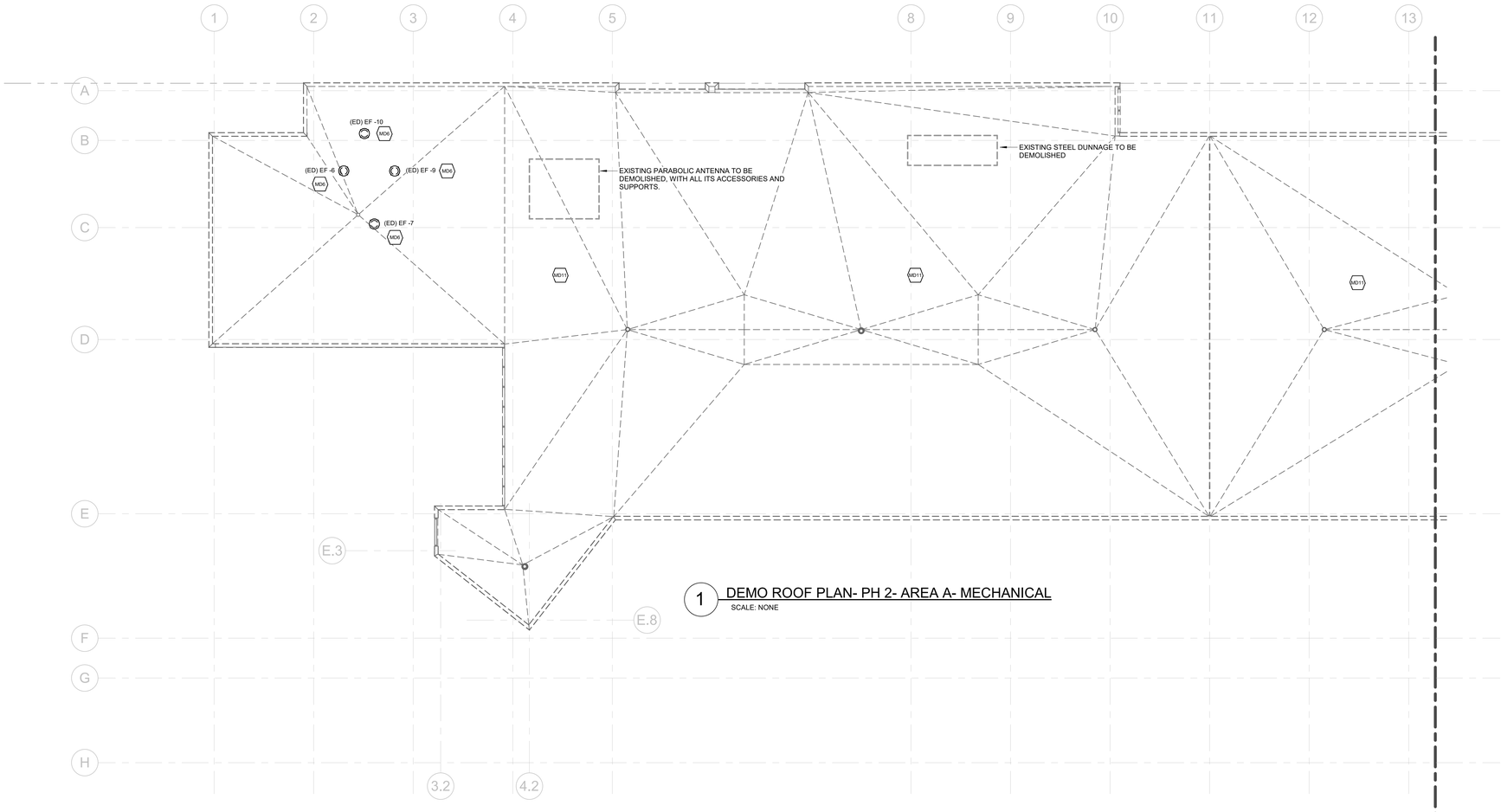

1 DEMO ROOF PLAN- PH 2- AREA A- MECHANICAL

SCALE: NONE

MECHANICAL DEMOLITION KEYNOTES ⬡ NOTED THUS

MD6	EXISTING EXHAUST FAN TO BE DEMOLISHED WITH ALL ITS ASSOCIATED DUCTWORK, AIR DEVICES, CONTROLS AND ACCESSORIES. CONTRACTOR TO PATCH ALL WALLS OR ROOF OPENINGS.
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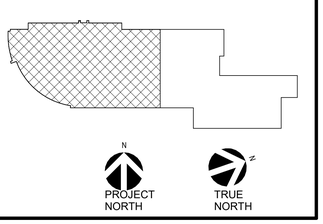

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ROOF DEMOLITION PLAN- AREA A- PH 2- MECHANICAL

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	DEMO PACKAGE PH 1	11/04/24
	BID & PERMIT	10/03/25

MD2.3a

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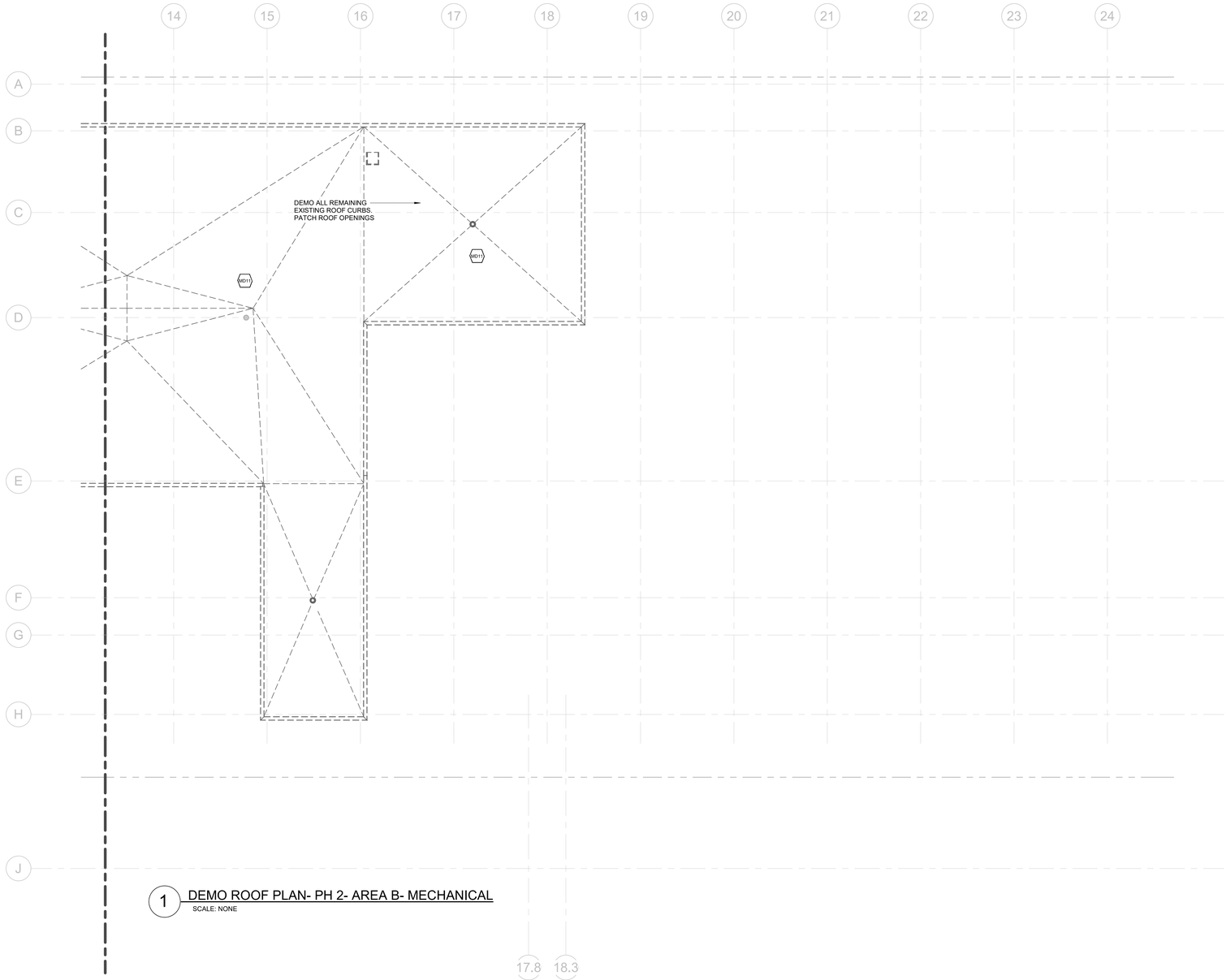

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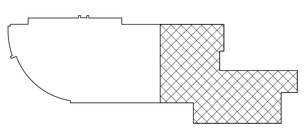

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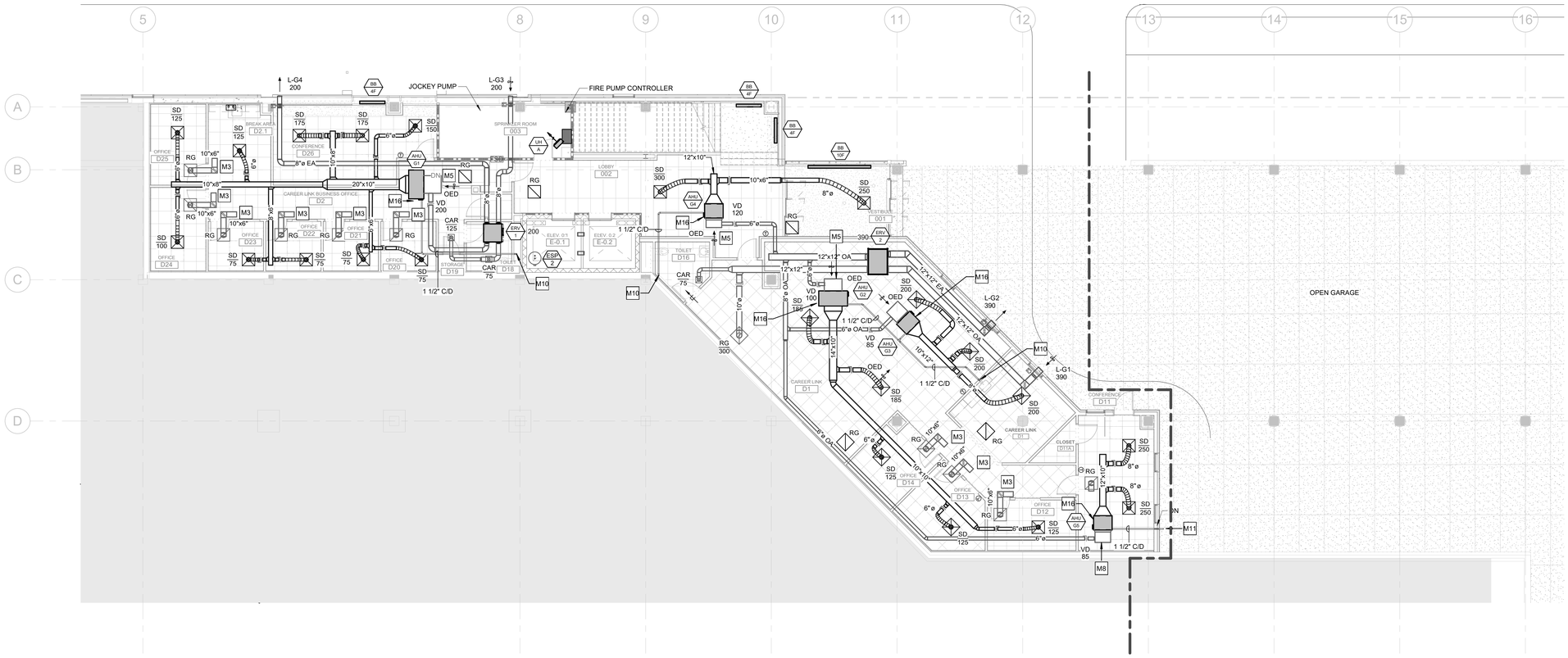


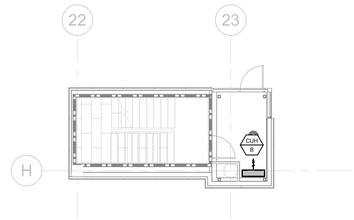
1 GROUND FLOOR- NEW CONSTRUCTION PLAN- MECHANICAL
1/8" = 1'-0"

MECHANICAL KEY NOTES [-] NOTED THUS

- M3 INSTALL TRANSFER DUCT WITH 1" INTERNAL ACOUSTICAL LINING WITH TWO 90 DEGREE ELBOWS. TERMINATE WITH OPEN END DUCT ABOVE THE CEILING. REFER TO PLANS FOR DUCT SIZE.
- M5 PROVIDE OPEN END DUCT (OED) RETURN OPENINGS WITH WIRE MESH SCREENS.
- M8 BELL MOUTH OPENING WITH WIRE MESH SCREEN. ALL RETURN DUCTWORK SHALL BE INTERNALLY LINED
- M10 CONDENSATE PIPING TO DISCHARGE INTO INDIRECT WASTE OUTLET PROVIDED BY PLUMBING CONTRACTOR WITH AIR GAP.
- M11 CONDENSATE PIPING TO DISCHARGE ON GRADE. PROVIDE SPLASH BLOCK.
- M16 PROVIDE 36" CLEARANCE IN FRONT SERVICE SIDE OF THE UNIT.

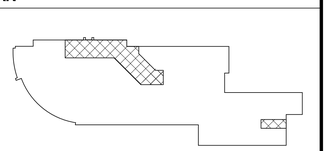
GENERAL MECHANICAL NOTES:

1. ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
2. DUCT SIZES INDICATED ON DRAWING ARE BASED AFTER THE LAST DIFFUSER AND/OR BRANCH TAKE-OFF.
3. CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDENSATE LINE AND AT 25 FT. CENTERS.
4. RUN ALL CONDENSATE PIPING TO POINT OF DISCHARGE, PROVIDE REQUIRED AIR GAP AT DISCHARGE POINT, REFER TO PLANS & SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
5. SHARP THROAT, RADIUS HEEL 90 DEGREE FITTINGS ARE UNACCEPTABLE. RADIUS ELBOWS (INNER AND OUTER) OR MITERED ELBOWS WITH TURNING VANES SHALL BE PROVIDED FOR ALL 90 DEGREE ELBOWS
6. ALL EXHAUSTS AND VENT TERMINALS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND OPERABLE PORTIONS OF ANY WINDOW.
7. ALL OUTSIDE AIR DUCTWORK SHALL HAVE MINIMUM 2" EXTERNAL FIBERGLASS DUCTWRAP INSULATION.
8. THE FIRST 10'-0" OF RETURN DUCTWORK FROM THE AIR HANDLER SHALL HAVE 1" OF INTERNAL ACOUSTICAL LINING.
9. EXHAUST AIR DUCTWORK SHALL NOT BE INSULATED UNLESS EXTENDING THROUGH UNCONDITIONED SPACES. PROVIDE 1 1/2" DUCTWRAP THROUGH UNCONDITIONED SPACES.
10. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.
11. ALL CONCEALED SUPPLY DUCTWORK SHALL BE EXTERNALLY INSULATED. REFER TO SPECIFICATIONS FOR INSULATION TYPE AND THICKNESS.
    A. EXPOSED DUCTWORK SHALL BE PROVIDED WITH INTERNAL LINING AND NO EXTERIOR INSULATION. EXPOSED DUCT SHALL BE PAINTED BLACK.
12. LIMIT FLEXIBLE DUCT TO 3 FEET MAX. ON EXPOSED CEILINGS.
13. REFER TO THE SECTION 230933 OF THE SPECIFICATIONS FOR THE EQUIPMENT SEQUENCE OF OPERATIONS.



2 GROUND FLOOR- NEW CONSTRUCTION PLAN- MECHANICAL
1/8" = 1'-0"

KEY PLAN



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05/05/2026

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CONSTRUCTION ISSUE DATE:	DRAWN BY: RC	CHECKED BY:-	SCALE:AS NOTED

GROUND FLOOR NEW CONSTRUCTION PLAN- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

M1.0

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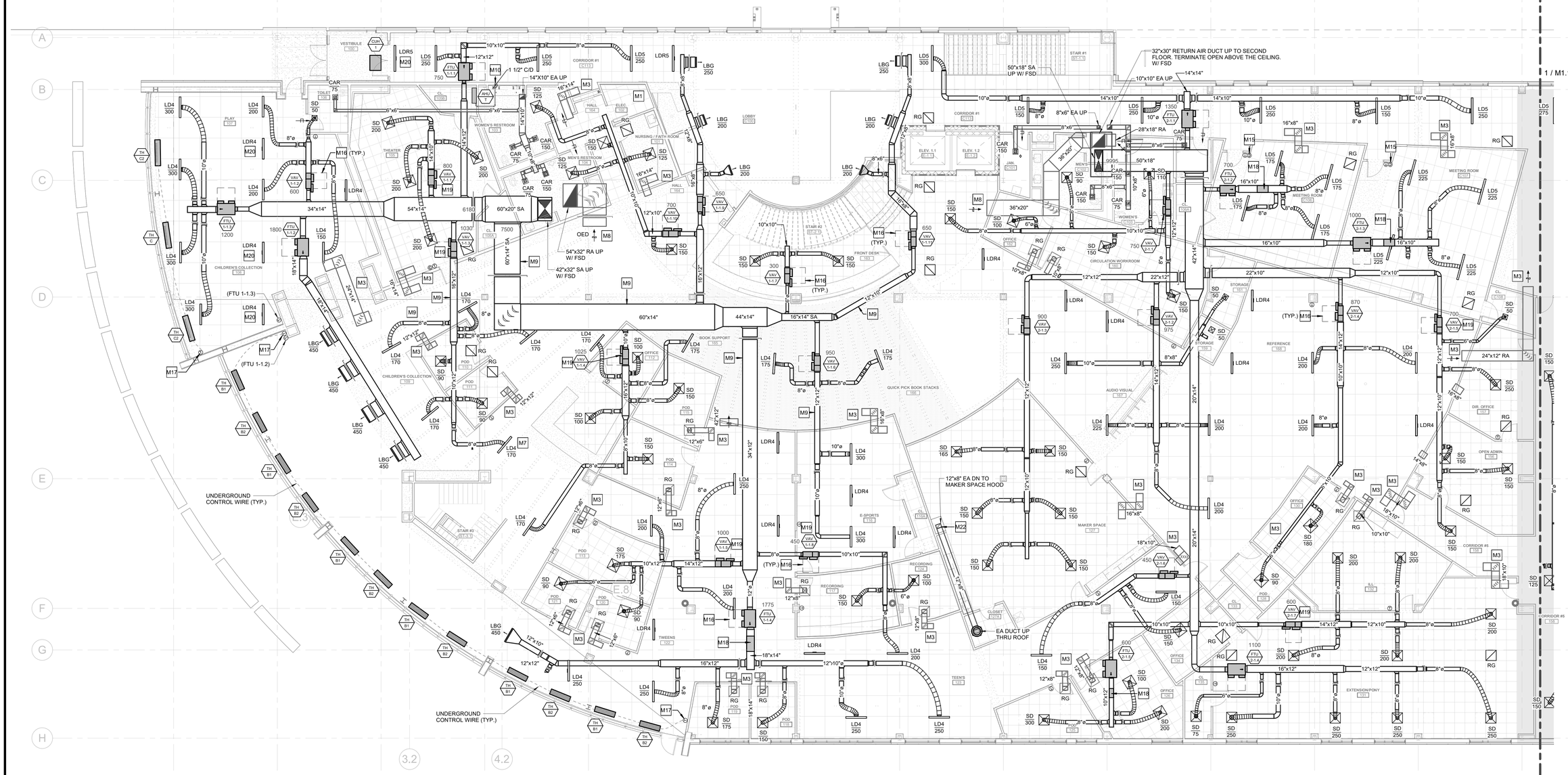
1 / M1.1b
32"x30" RETURN AIR DUCT UP TO SECOND FLOOR TERMINATE OPEN ABOVE THE CEILING. W/ FSD
50"x18" SA UP W/ FSD
10"x10" EA UP
8"x6" EA UP
28"x18" RA
54"x32" RA UP W/ FSD
42"x32" SA UP W/ FSD
60"x20" SA
60"x14" SA
44"x14"
16"x14" SA
12"x8" EA DN TO MAKER SPACE HOOD
EA DUCT UP THRU ROOF
24"x12" RA
UNDERGROUND CONTROL WIRE (TYP.)
(FTU 1-1.2)
(FTU 1-1.3)
VESTIBULE 100
PLAY 107
TOILET 106
CORRIDOR #1 113
WOMEN'S RESTROOM 108
MEN'S RESTROOM 109
THEATER 105
HALL 104
ELEC. 102
NURSING / FAITH ROOM 103
LOBBY 101
CHILDREN'S COLLECTION 108
CHILDREN'S COLLECTION 109
POD 115
POD 116
POD 117
POD 118
POD 119
POD 120
POD 121
OFFICE 112
BOOK SUPPORT 165
QUICK PICK BOOK STACKS 166
FRONT DESK 163
STAIR #2 S1.2-1
ELEV. 1.1 S1.1
ELEV. 1.2 S1.2
JAN. 130
MEN'S 131
WOMEN'S 132
CORRIDOR #1 113
STAIR #1 S1.1-1
OFFICE 162
CIRCULATION WORKROOM 160
STORAGE 161
STORAGE 162
REFERENCE 163
AUDIO VISUAL 164
MEETING ROOM 158
MEETING ROOM 159
DIR. OFFICE 157
OPEN ADMIN. 156
OFFICE 155
OFFICE 154
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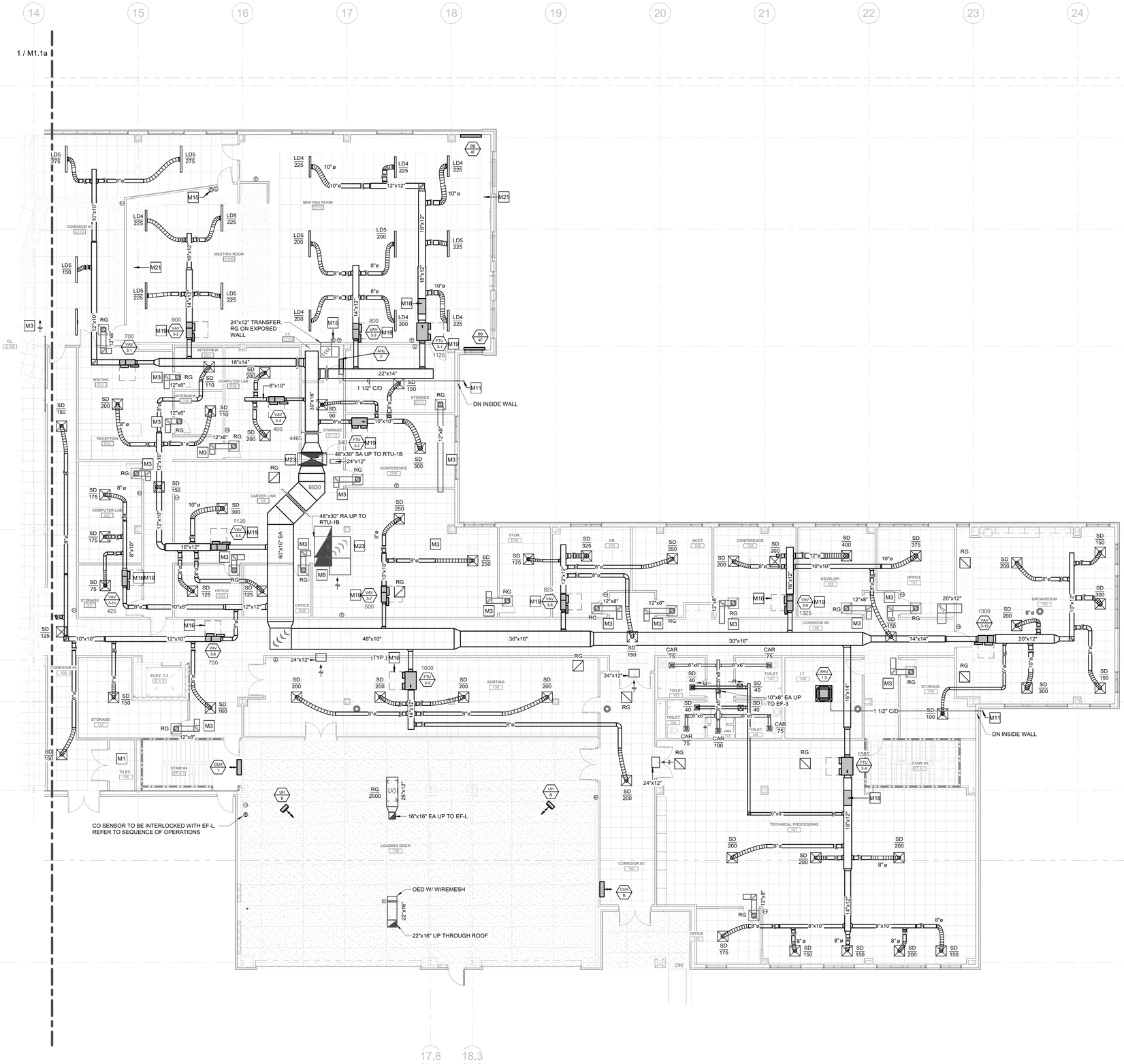


1 1ST FLR- NEW CONSTRUCTION PLAN- MECHANICAL - AREA B
1/8" = 1'-0"

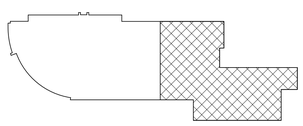
GENERAL MECHANICAL NOTES:

1. ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
2. DUCT SIZES INDICATED ON DRAWING ARE BASED AFTER THE LAST DIFFUSER AND/OR BRANCH TAKE-OFF.
3. CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDENSATE LINE AND AT 25 FT. CENTERS.
4. RUN ALL CONDENSATE PIPING TO POINT OF DISCHARGE, PROVIDE REQUIRED AIR GAP AT DISCHARGE POINT, REFER TO PLANS & SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
5. SHARP THROAT, RADIUS HEEL 90 DEGREE FITTINGS ARE UNACCEPTABLE. RADIUS ELBOWS (INNER AND OUTER) OR MITERED ELBOWS WITH TURNING VANES SHALL BE PROVIDED FOR ALL 90 DEGREE ELBOWS
6. ALL EXHAUSTS AND VENT TERMINALS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND OPERABLE PORTIONS OF ANY WINDOW.
7. ALL OUTSIDE AIR DUCTWORK SHALL HAVE MINIMUM 2" EXTERNAL FIBERGLASS DUCTWRAP INSULATION.
8. THE FIRST 10'-0" OF RETURN DUCTWORK FROM THE AIR HANDLER SHALL HAVE 1" OF INTERNAL ACOUSTICAL LINING.
9. EXHAUST AIR DUCTWORK SHALL NOT BE INSULATED UNLESS EXTENDING THROUGH UNCONDITIONED SPACES. PROVIDE 1 1/2" DUCTWRAP THROUGH UNCONDITIONED SPACES.
10. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.
11. ALL CONCEALED SUPPLY DUCTWORK SHALL BE EXTERNALLY INSULATED. REFER TO SPECIFICATIONS FOR INSULATION TYPE AND THICKNESS.
    A. EXPOSED DUCTWORK SHALL BE PROVIDED WITH INTERNAL LINING AND NO EXTERIOR INSULATION. EXPOSED DUCT SHALL BE PAINTED BLACK.
12. LIMIT FLEXIBLE DUCT TO 3 FEET MAX. ON EXPOSED CEILINGS.
13. REFER TO THE SECTION 230933 OF THE SPECIFICATIONS FOR THE EQUIPMENT SEQUENCE OF OPERATIONS.

MECHANICAL KEY NOTES [-] NOTED THUS

M1	NO DUCTWORK OR PIPING SHALL EXTEND OVER ELECTRICAL PANEL.
M3	INSTALL TRANSFER DUCT WITH 1" INTERNAL ACOUSTICAL LINING WITH TWO 90 DEGREE ELBOWS. TERMINATE WITH OPEN END DUCT ABOVE THE CEILING. REFER TO PLANS FOR DUCT SIZE.
M8	BELL MOUTH OPENING WITH WIRE MESH SCREEN. ALL RETURN DUCTWORK SHALL BE INTERNALLY LINED
M11	CONDENSATE PIPING TO DISCHARGE ON GRADE. PROVIDE SPLASH BLOCK.
M15	CO□: SENSOR TO BE INTERLOCKED WITH MODULATING FRESH AIR CONTROLS. REFER TO SEQUENCE IN VAV / FTU / RTU SCHEDULE.
M16	PROVIDE 36" CLEARANCE IN FRONT SERVICE SIDE OF THE UNIT.
M18	INSTALL 3 FEET LONG SOUND ATTENUATOR. PRICE INDUSTRIES, MODEL RH36. 0.05" PRESSURE DROP.
M19	INSTALL 1" INTERNAL ACOUSTICAL LINING ON THE SUPPLY DUCT FOR THE FIRST 10 FEET DOWNSTREAM OF THIS TERMINAL.
M21	PERIMETER SPACE OPEN TO RETURN AIR PLENUM ABOVE CEILING.REFER TO ARCHITECTURAL PLANS.
M23	INSTALL ELBOW SOUND TRAPS. 16 GAUGE DUCTWORK FROM UNIT TO SOUND TRAP. INSTALL 1" ACOUSTICAL DUCT LINER FOR FIRST 10 FEET OF SUPPLY AND RETURN DUCT COMING FROM THE RTU.

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MICHAEL WITKOWSKI ENGINEER 05/05/2026

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2154411169

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CONSTRUCTION ISSUE DATE:
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CHECKED BY: Checker
SCALE:AS NOTED

FIRST FLOOR NEW CONSTRUCTION PLAN AREA B-MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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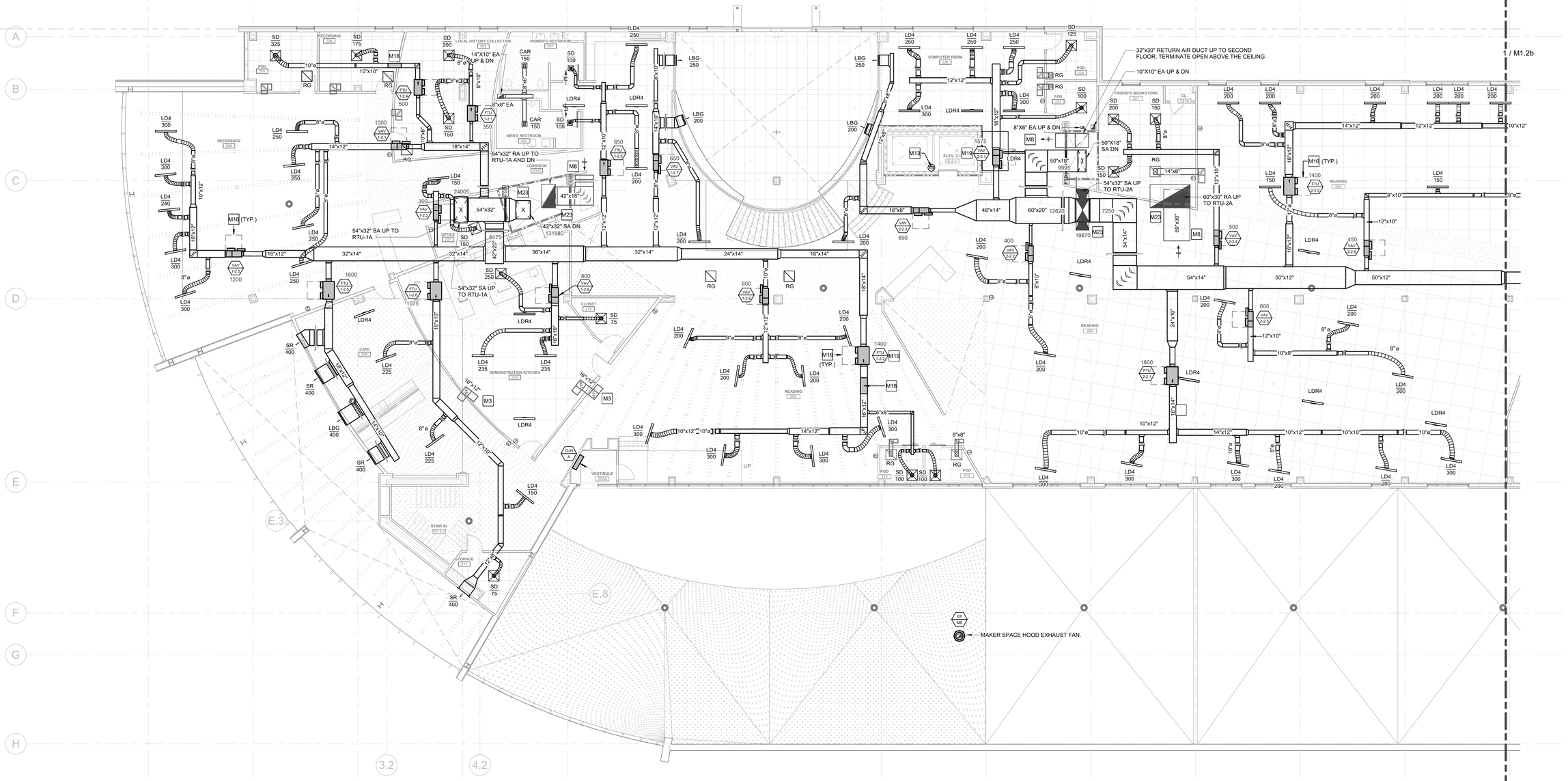


1 2ND FLR- NEW CONSTRUCTION PLAN- MECHANICAL - AREA A
1/8" = 1'-0"

MECHANICAL KEY NOTES [-] NOTED THUS

M3 INSTALL TRANSFER DUCT WITH 1" INTERNAL ACOUSTICAL LINING WITH TWO 90 DEGREE ELBOWS. TERMINATE WITH OPEN END DUCT ABOVE THE CEILING. REFER TO PLANS FOR DUCT SIZE.

M8 BELL MOUTH OPENING WITH WIRE MESH SCREEN. ALL RETURN DUCTWORK SHALL BE INTERNALLY LINED

M13 TEMPERATURE SENSOR TO BE INSTALLED AT TOP OF ELEVATOR SHAFT. TO CONTROL OPERATION OF ELEVATOR SHAFT VENT FAN. 95F SETPOINT (ADJUSTABLE). REFER TO SEQUENCE OF OPERATIONS.

M16 PROVIDE 36" CLEARANCE IN FRONT SERVICE SIDE OF THE UNIT.

M18 INSTALL 3 FEET LONG SOUND ATTENUATOR. PRICE INDUSTRIES, MODEL RH36. 0.05" PRESSURE DROP.

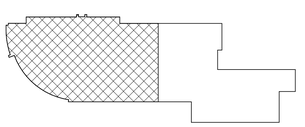
M19 INSTALL 1" INTERNAL ACOUSTICAL LINING ON THE SUPPLY DUCT FOR THE FIRST 10 FEET DOWNSTREAM OF THIS TERMINAL.

M23 INSTALL ELBOW SOUND TRAPS. 16 GAUGE DUCTWORK FROM UNIT TO SOUND TRAP. INSTALL 1" ACOUSTICAL DUCT LINER FOR FIRST 10 FEET OF SUPPLY AND RETURN DUCT COMING FROM THE RTU.

GENERAL MECHANICAL NOTES:

1. ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
2. DUCT SIZES INDICATED ON DRAWING ARE BASED AFTER THE LAST DIFFUSER AND/OR BRANCH TAKE-OFF.
3. CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDENSATE LINE AND AT 25 FT. CENTERS.
4. RUN ALL CONDENSATE PIPING TO POINT OF DISCHARGE, PROVIDE REQUIRED AIR GAP AT DISCHARGE POINT, REFER TO PLANS & SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
5. SHARP THROAT, RADIUS HEEL 90 DEGREE FITTINGS ARE UNACCEPTABLE. RADIUS ELBOWS (INNER AND OUTER) OR MITERED ELBOWS WITH TURNING VANES SHALL BE PROVIDED FOR ALL 90 DEGREE ELBOWS
6. ALL EXHAUSTS AND VENT TERMINALS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND OPERABLE PORTIONS OF ANY WINDOW.
7. ALL OUTSIDE AIR DUCTWORK SHALL HAVE MINIMUM 2" EXTERNAL FIBERGLASS DUCTWRAP INSULATION.
8. THE FIRST 10'-0" OF RETURN DUCTWORK FROM THE AIR HANDLER SHALL HAVE 1" OF INTERNAL ACOUSTICAL LINING.
9. EXHAUST AIR DUCTWORK SHALL NOT BE INSULATED UNLESS EXTENDING THROUGH UNCONDITIONED SPACES. PROVIDE 1 1/2" DUCTWRAP THROUGH UNCONDITIONED SPACES.
10. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.
11. ALL CONCEALED SUPPLY DUCTWORK SHALL BE EXTERNALLY INSULATED. REFER TO SPECIFICATIONS FOR INSULATION TYPE AND THICKNESS.
    A. EXPOSED DUCTWORK SHALL BE PROVIDED WITH INTERNAL LINING AND NO EXTERIOR INSULATION. EXPOSED DUCT SHALL BE PAINTED BLACK.
12. LIMIT FLEXIBLE DUCT TO 3 FEET MAX. ON EXPOSED CEILINGS.
13. REFER TO THE SECTION 230933 OF THE SPECIFICATIONS FOR THE EQUIPMENT SEQUENCE OF OPERATIONS.

KEY PLAN



PROJECT NORTH

TRUE NORTH

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Phone: 610.834.7805 Facsimile: 610.834.7815

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SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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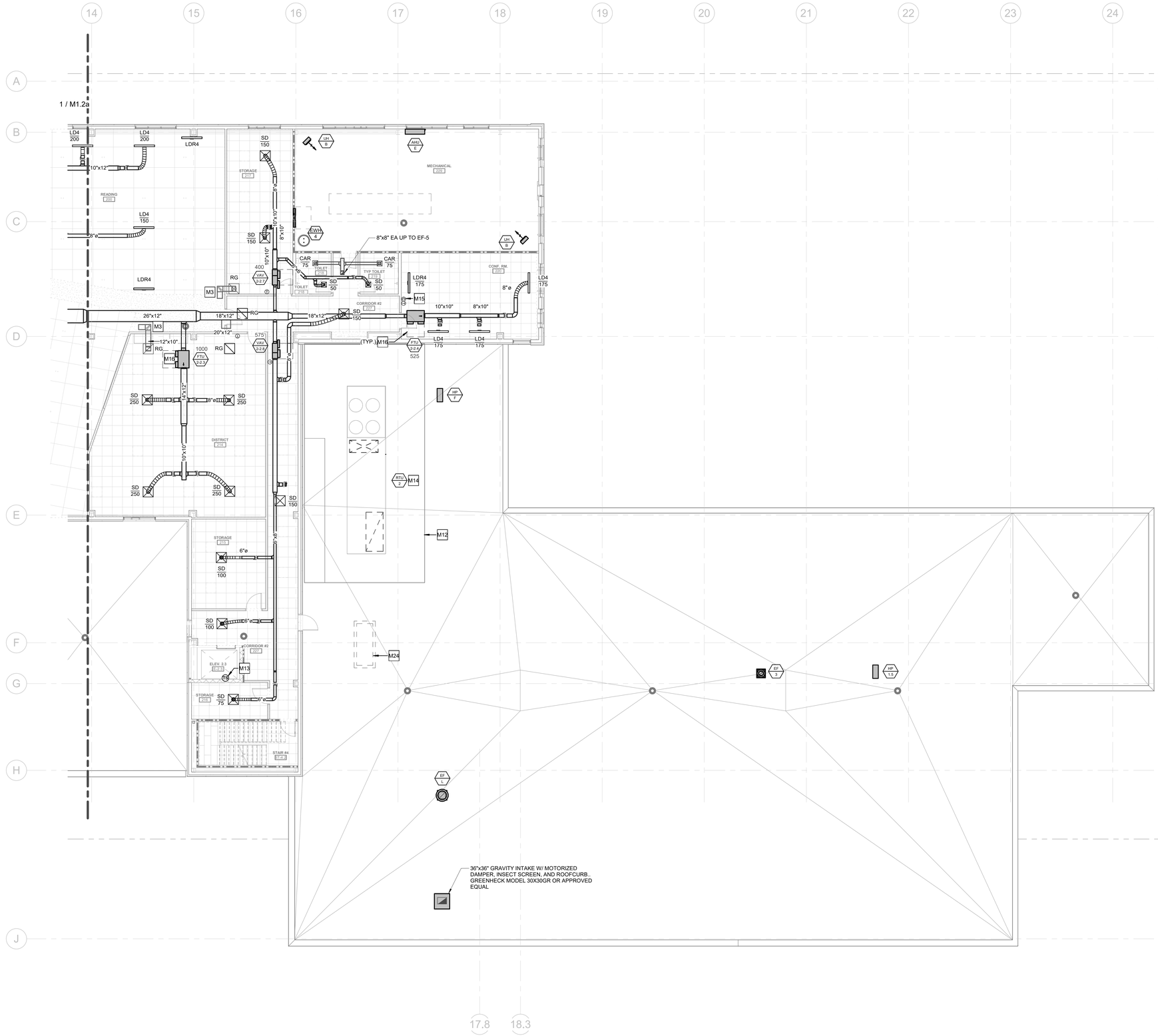

1 2ND FLR- NEW CONSTRUCTION PLAN- MECHANICAL - AREA B
1/8" = 1'-0"

GENERAL MECHANICAL NOTES:

1. ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
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    A. EXPOSED DUCTWORK SHALL BE PROVIDED WITH INTERNAL LINING AND NO EXTERIOR INSULATION. EXPOSED DUCT SHALL BE PAINTED BLACK.
12. LIMIT FLEXIBLE DUCT TO 3 FEET MAX. ON EXPOSED CEILINGS.

MECHANICAL ROOF NOTES:

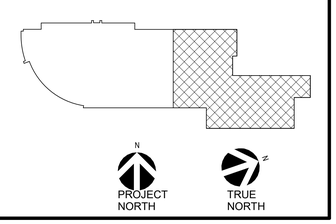
1A. REFER TO THE SECTION 230933 OF THE SPECIFICATIONS FOR THE EQUIPMENT SEQUENCE OF OPERATIONS.

1. ALL DUCTWORK SIZES ARE INSIDE DIMENSIONS UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR DUCTWORK TO BE 4" WATERGAUGE DUCT CONSTRUCTION WITH 2" RIGID INSULATION AND WEATHERPROOF COVERING IN ADDITION TO 1" LINING. SEE SPEC.
3. ALL BOTTOM OF DUCTWORK TO BE MINIMUM 2'-0" ABOVE FINISHED ROOF.
4. ALL TOPS OF EXTERIOR DUCTWORK TO SLOPE SO NOT TO ALLOW WATER ACCUMULATION.
5. CONTRACTOR TO FURNISH AND INSTALL ROOF MOUNTED DUCT CURBS TO SUPPORT EXTERIOR DUCTWORK AT ALL CHANGES OF DIRECTION AND AT A MAXIMUM OF 8'-0" O.C. PATE OR EQUAL.
6. CONTRACTOR SHALL PAINT ALL EXPOSED DUCT SUPPORTS ONE COAT RUSTOLEUM PRIMER AND 2 FINISH COATS OF ENAMEL.
7. CONTRACTOR IS TO FURNISH AND INSTALL SUPPLEMENTAL GALVANIZED STEEL ANGLE DUCT SUPPORTS TO SUPPORT HIGH DUCTWORK. CONTRACTOR TO SECURE DUCTWORK TO SUPPORTS. CONTRACTOR TO FURNISH AND INSTALL ROOF PITCH POCKET AT EACH SUPPLEMENTAL STEEL SUPPORT AT ROOF OR PROVIDE PATE "PIPE-SEAL" ROOF CURB MOUNTING. CONTRACTOR TO FLASH ALL PITCH POCKET AND ROOF CURBS. ALL EXPOSED GALVANIZED DUCT SUPPORTS TO BE PAINTED ONE COAT RUSTOLEUM PRIMER AND 2 FINISH COATS OF ENAMEL.
8. CONTRACTOR TO FURNISH AND INSTALL NEW PIPE ROOF CURBS FOR ALL CONDUIT/POWER/CONTROLS/REFRIGERANT PIPING PENETRATIONS THROUGH THE ROOF. REFER TO ROOF PENETRATION DETAIL FOR ADDITIONAL INFORMATION.
9. REFRIGERANT PIPING SUPPORTS SHALL BE LOCATED NO FURTHER APART THAN 48" ON CENTER. REFER TO DETAILS.
10. LOCATE CONDENSING UNITS/HEAT PUMPS ON SECURED BASES WITH NEOPRENE PADS UNDERNEATH EACH AS A MINIMUM. UNITS MUST BE SECURED TO ROOF TO MEET WIND-LOAD AND SEISMIC REQUIREMENTS UNLESS WEIGHT IS DEMONSTRATED TO PROVIDE ADEQUATE STABILITY.
11. ANY PENETRATIONS TO THE ROOF MUST BE DONE IN ACCORDANCE WITH THE ROOFING WARRANTY SPECIFICATIONS. FOR EXISTING ROOFS, CONTRACTOR MUST CONTACT THE WARRANTING ROOFING CONTRACTOR OF THE EXISTING ROOF. PROVIDE ALL SEALING AND FLASHING REQUIRED.
12. NO EQUIPMENT SHALL BE LOCATED WITHIN 10'-0" OF ROOF EDGES UNLESS GUARDS OR HIGH PARAPET WALLS EXIST OR ARE INSTALLED.
13. PERMANENT ACCESS SHALL BE PROVIDED TO ANY ROOF WHERE EQUIPMENT IS LOCATED. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
14. INSTALL ALL EQUIPMENT SUCH THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE KEPT AND AT LEAST 10'-0" BETWEEN ANY INTAKE AND EXHAUST/VENT.ZE
15. ALL ROOFTOP DIRECT-VENT TERMINALS SHALL TERMINATE A MINIMUM OF 24" ABOVE THE ROOF TO ALLOW FOR SNOW LOAD. DIRECT VENT TERMINALS SHALL BE SPACED FROM EACH OTHER IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND NEVER LESS THAN 12" APART.
16. REFER TO REFRIGERANT PIPING NOTES AND DETAILS FOR FURTHER ROOFTOP REQUIREMENTS.

MECHANICAL KEY NOTES [-] NOTED THUS

- M3 INSTALL TRANSFER DUCT WITH 1" INTERNAL ACOUSTICAL LINING WITH TWO 90 DEGREE ELBOWS. TERMINATE WITH OPEN END DUCT ABOVE THE CEILING. REFER TO PLANS FOR DUCT SIZE.
- M12 ROOFTOP UNIT SCREEN. ATTACHED TO THE UNIT, ALL ALUMINUM VENTED LOUVER PANELS. MANUFACTURER: ENVISOR. COLOR TO BE SELECTED BY ARCHITECT.
- M13 TEMPERATURE SENSOR TO BE INSTALLED AT TOP OF ELEVATOR SHAFT. TO CONTROL OPERATION OF ELEVATOR SHAFT VENT FAN. 95F SETPOINT (ADJUSTABLE). REFER TO SEQUENCE OF OPERATIONS.
- M14 PROVIDE RTU WITH A HUSHCORE DECK SYSTEM IN-CURB ACOUSTICAL TREATMENT. MODEL DS-53. REFER TO DETAIL.
- M15 CO2. SENSOR TO BE INTERLOCKED WITH MODULATING FRESH AIR CONTROLS. REFER TO SEQUENCE IN VAV / FTU / RTU SCHEDULE.
- M16 PROVIDE 36" CLEARANCE IN FRONT SERVICE SIDE OF THE UNIT.
- M24 GENERATOR FLUE EXHAUST TO TERMINATE AT LEAST 10 FEET AWAY (HORIZONTALLY) AND 3 FEET ABOVE THE ROOFTOP OUTSIDE AIR INTAKE.

KEY PLAN



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SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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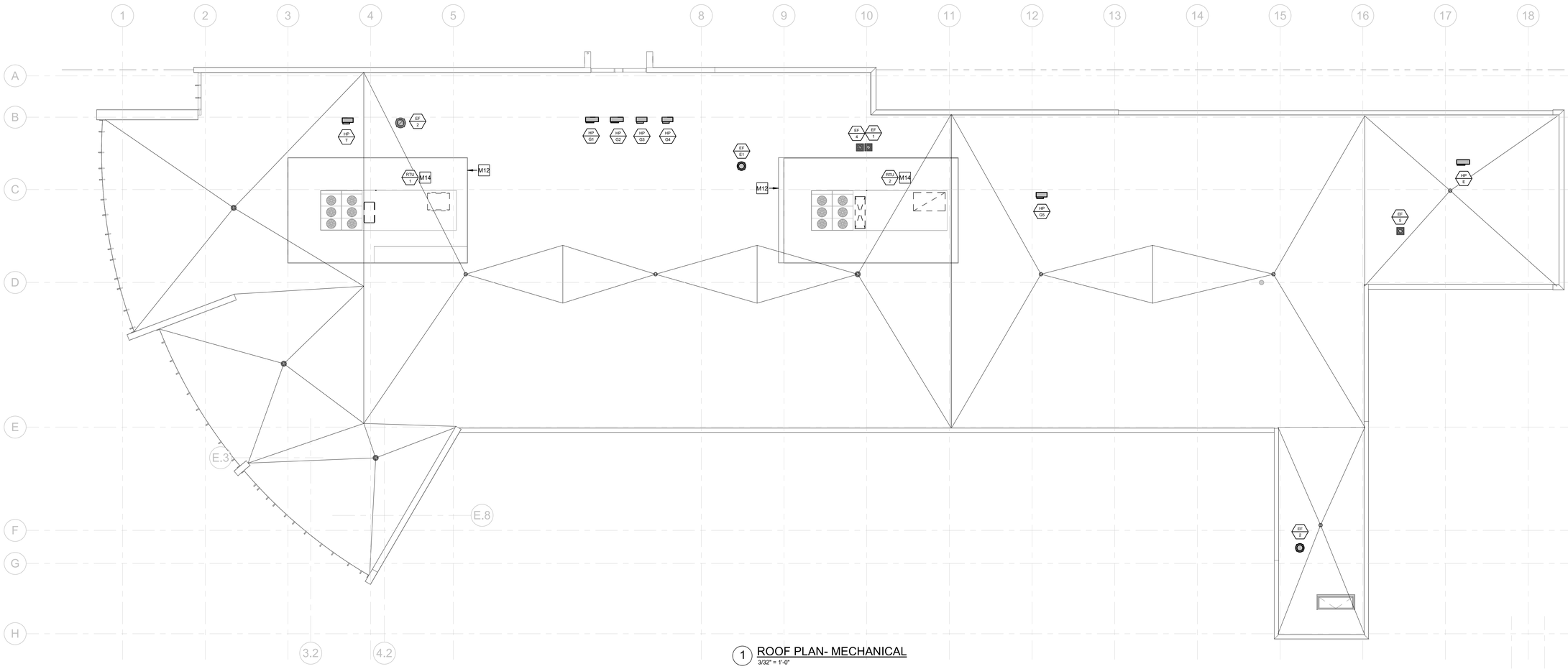

1 ROOF PLAN- MECHANICAL

3/32" = 1'-0"

MECHANICAL KEY NOTES [-] NOTED THUS

M12 ROOFTOP UNIT SCREEN. ATTACHED TO THE UNIT, ALL ALUMINUM VENTED LOUVER PANELS. MANUFACTURER: ENVISOR. COLOR TO BE SELECTED BY ARCHITECT.

M14 PROVIDE RTU WITH A HUSHCORE DECK SYSTEM IN-CURB ACOUSTICAL TREATMENT. MODEL DS-53. REFER TO DETAIL.

MECHANICAL ROOF NOTES:

1. ALL DUCTWORK SIZES ARE INSIDE DIMENSIONS UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR DUCTWORK TO BE 4" WATERGAUGE DUCT CONSTRUCTION WITH 2" RIGID INSULATION AND WEATHERPROOF COVERING IN ADDITION TO 1" LINING. SEE SPEC.
3. ALL BOTTOM OF DUCTWORK TO BE MINIMUM 2'-0" ABOVE FINISHED ROOF.
4. ALL TOPS OF EXTERIOR DUCTWORK TO SLOPE SO NOT TO ALLOW WATER ACCUMULATION.
5. CONTRACTOR TO FURNISH AND INSTALL ROOF MOUNTED DUCT CURBS TO SUPPORT EXTERIOR DUCTWORK AT ALL CHANGES OF DIRECTION AND AT A MAXIMUM OF 8'-0" O.C. PATE OR EQUAL.
6. CONTRACTOR SHALL PAINT ALL EXPOSED DUCT SUPPORTS ONE COAT RUSTOLEUM PRIMER AND 2 FINISH COATS OF ENAMEL.
7. CONTRACTOR IS TO FURNISH AND INSTALL SUPPLEMENTAL GALVANIZED STEEL ANGLE DUCT SUPPORTS TO SUPPORT HIGH DUCTWORK. CONTRACTOR TO SECURE DUCTWORK TO SUPPORTS. CONTRACTOR TO FURNISH AND INSTALL ROOF PITCH POCKET AT EACH SUPPLEMENTAL STEEL SUPPORT AT ROOF OR PROVIDE PATE "PIPE-SEAL" ROOF CURB MOUNTING. CONTRACTOR TO FLASH ALL PITCH POCKET AND ROOF CURBS. ALL EXPOSED GALVANIZED DUCT SUPPORTS TO BE PAINTED ONE COAT RUSTOLEUM PRIMER AND 2 FINISH COATS OF ENAMEL.
8. CONTRACTOR TO FURNISH AND INSTALL NEW PIPE ROOF CURBS FOR ALL CONDUIT/POWER/CONTROLS/REFRIGERANT PIPING PENETRATIONS THROUGH THE ROOF. REFER TO ROOF PENETRATION DETAIL FOR ADDITIONAL INFORMATION.
9. REFRIGERANT PIPING SUPPORTS SHALL BE LOCATED NO FURTHER APART THAN 48" ON CENTER. REFER TO DETAILS.
10. LOCATE CONDENSING UNITS/HEAT PUMPS ON SECURED BASES WITH NEOPRENE PADS UNDERNEATH EACH AS A MINIMUM. UNITS MUST BE SECURED TO ROOF TO MEET WIND-LOAD AND SEISMIC REQUIREMENTS UNLESS WEIGHT IS DEMONSTRATED TO PROVIDE ADEQUATE STABILITY.
11. ANY PENETRATIONS TO THE ROOF MUST BE DONE IN ACCORDANCE WITH THE ROOFING WARRANTY SPECIFICATIONS. FOR EXISTING ROOFS, CONTRACTOR MUST CONTACT THE WARRANTING ROOFING CONTRACTOR OF THE EXISTING ROOF. PROVIDE ALL SEALING AND FLASHING REQUIRED.
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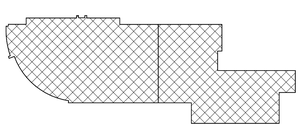
15. ALL ROOFTOP DIRECT-VENT TERMINALS SHALL TERMINATE A MINIMUM OF 24" ABOVE THE ROOF TO ALLOW FOR SNOW LOAD. DIRECT VENT TERMINALS SHALL BE SPACED FROM EACH OTHER IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND NEVER LESS THAN 12" APART.
16. REFER TO REFRIGERANT PIPING NOTES AND DETAILS FOR FURTHER ROOFTOP REQUIREMENTS.

KEY PLAN



PROJECT NORTH

TRUE NORTH

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ROOF PLAN NEW CONSTRUCTION PLAN- MECHANICAL

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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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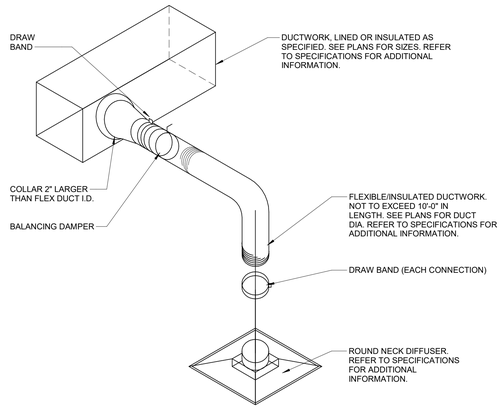
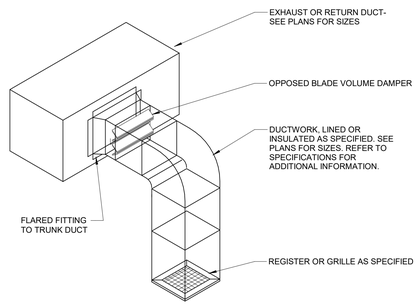


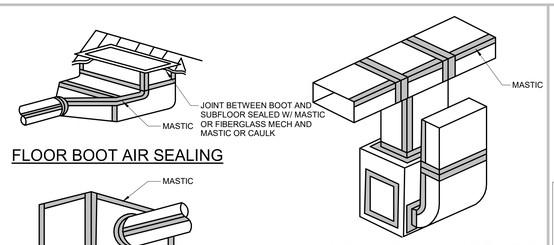
1 SUPPLY DIFFUSER DETAIL

SCALE: NONE



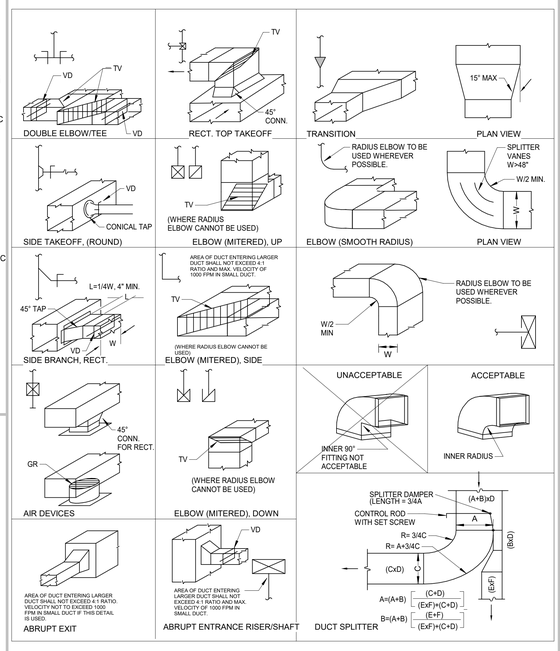
2 RETURN OR EXHAUST REGISTER/GRILLE DETAIL

SCALE: NONE



3 DUCTWORK SEALING DETAIL

SCALE: NONE



ABBREVIATIONS:

GR EQUALIZING GRID
TV TURNING VANES
VD VOLUME DAMPER
AT AIR TURN OR EXTRACTOR

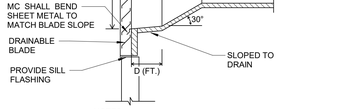
7 DUCTWORK DETAIL

SCALE: NONE

NOTES:
1. REFER TO AIR DEVICE SCHEDULE FOR NUMBER OF SLOTS, LENGTHS, AND PLENUM SIZE.
2. INSTALL RADIANT HEAT STOP FOR FIRE RATED CEILINGS. REFER TO DETAIL.

4 LINEAR DIFFUSER DETAIL

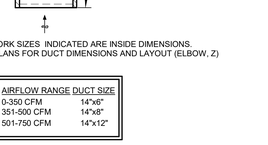
SCALE: NONE



NOTES:
1. INSTALL PER MANUFACTURER'S REQUIREMENTS. REFER TO SCHEDULE FOR SIZES.

5 DRAINABLE LOUVER DETAIL

SCALE: NONE

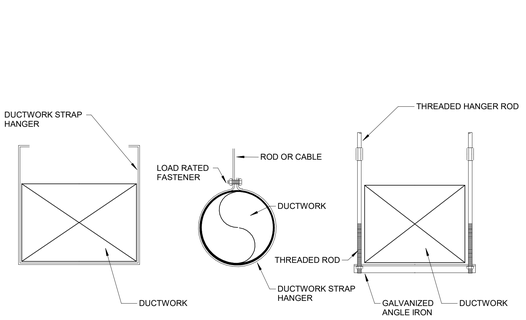


NOTE:
ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS.
REFER TO PLANS FOR DUCT DIMENSIONS AND LAYOUT (ELBOW, Z)

AIRFLOW RANGE	DUCT SIZE
0-350 CFM	14"x8"
351-500 CFM	14"x8"
501-750 CFM	14"x12"

6 LINED RETURN ELBOW DETAIL

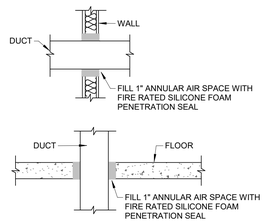
SCALE: NONE



NOTES:
1. STRAP HANGERS TO BE CONSTRUCTED OF SAME GAUGE GALVANIZED STEEL AS DUCT.
2. STRAP HANGERS TO BE FASTENED TO DUCT WITH SHEET METAL SCREWS.

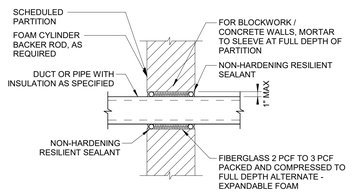
8 DUCTWORK HANGER DETAIL

SCALE: NONE



9 TYPICAL INTERIOR WALL DUCT PENETRATION DETAIL

SCALE: NONE

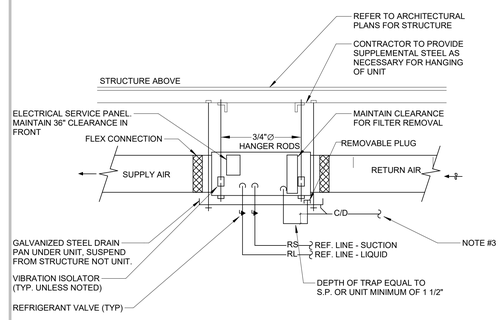


GENERAL NOTES:

1. DUCT AND PIPE SUPPORTS TO BE SPACED SUFFICIENTLY FROM PARTITION LINE TO ALLOW ACCESS FOR INSTALLATION ANDSEALING.
2. IN BLOCKWORK PARTITIONS. THICKNESS OF STEEL SLEEVE TO BE SUFFICIENT TO SUPPORT MORTAR ABOVE. MINIMUM THICKNESS 1/16 INCH.

10 TYPICAL INTERIOR WALL DUCT PENETRATION (ACOUSTICAL) DETAIL

SCALE: NONE



NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL A CONDENSATE PUMP IF GRAVITY CONDENSATE DRAINAGE PIPING SYSTEM IS NOT POSSIBLE. INTERLOCK CONDENSATE PUMP OPERATION WITH ASSOCIATED AIR HANDLING UNIT CONTROLS.
2. UL LISTED CONDENSATE DETECTION DEVICE ON DRAIN PAN WITH SENOR INTERLOCKED W/AIR HANDLER. SHUT UNIT DOWN IF WATER IS DETECTED
3. 1 1/2" Ø MIN. CONDENSATE LINE TO ACCEPTABLE DISCHARGE POINT. REFER TO SEPARATE CONDENSATE TRAP DETAIL

11 HORIZONTAL DX AIR HANDLING UNIT DETAIL

SCALE: NONE

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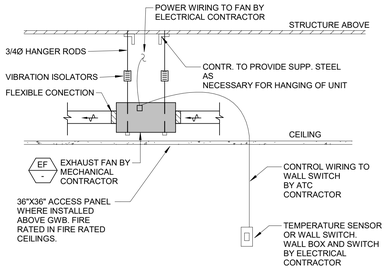
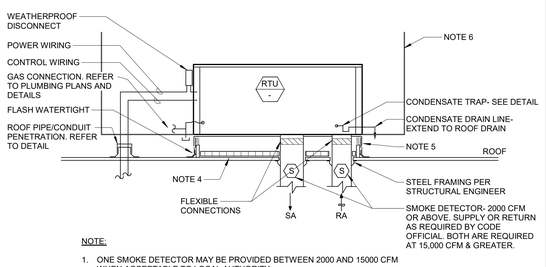


1 INLINE EXHAUST FAN DETAIL

SCALE: NONE

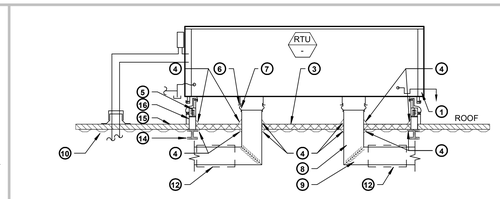


NOTE:

1. ONE SMOKE DETECTOR MAY BE PROVIDED BETWEEN 2000 AND 15000 CFM WHEN ACCEPTABLE TO LOCAL AUTHORITY.
2. ALL ROOF CURBS SHALL BE SECURED TO THE ROOF IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND COMPLY WITH IBC WIND LOADING REQUIREMENTS. COORDINATE WITH STRUCTURAL ENGINEER.
3. CONTRACTOR TO FURNISH & INSTALL GAS PRESSURE REGULATORS.
4. INSTALL HUSH CORE SOUND REDUCTION SYSTEM. REFER TO DETAIL.
   A. ALTERNATE; 4" RIGID INSULATION AROUND INSIDE PERIMETER. OF ROOF CURB
5. FACTORY INSULATED ROOF CURB WITH VIBRATION ISOLATING RAIL WITH WEATHER SHIELD, NEOPRENE WEATHER SHIELD, WIND RESTRAINT, AND NEOPRENE SPONGE ISOLATION AND WEATHER PAD.
6. ROOFTOP UNIT SCREEN. ATTACHED TO THE UNIT, ALL ALUMINUM VENTED LOUVER PANELS. MANUFACTURER: ENVISOR. COLOR TO BE SELECTED BY ARCHITECT.

2 ROOF TOP UNIT WITH VIBRATION ISOLATION MOUNTING DETAIL

SCALE: NONE



BY RTU UNIT MANUFACTURER

1. RTU BASE
2. SA/RA UNIT OPENINGS

BY ACOUSTICAL MANUFACTURER

3. HUSH CORE DECK SYSTEM-IN-CURB ACOUSTICAL TREATMENT TO PROVIDE A MINIMUM STC LEVEL OF 50.
4. HUSH SEALANT ACOUSTICAL CAULK AT ALL DUCT DROPS, ANY PENETRATIONS WITHIN THE CURB, & CURB PERIMETER

BY MECH. CONTRACTOR

5. RTU CURB W/ SPRING ISOLATORS.
6. DUCT DROP
7. FLEX CONNECTORS FOR ALL PIPING AND CONDUITS.
8. DUCT WORK.
9. TURNING VANE
10. ROOF DECK FLASHED TO WITHIN 1/4" OF ALL DUCT DROPS & PENETRATIONS, BUT NOT IN CONTACT WITH DUCT WALL.
11. SUBMIT LETTER OF CERTIFICATION FROM ACOUSTICAL SUPPLIER FOLLOWING INSPECTION.
12. SOUND TRAP. INSTALL ELBOW TRAPS WHERE CONDITIONS ALLOW.
13. 16 GAUGE DUCTWORK FROM UNIT TO SOUND TRAP WITH 1" ACOUSTICAL DUCT LINER.

BY GENERAL CONTRACTOR

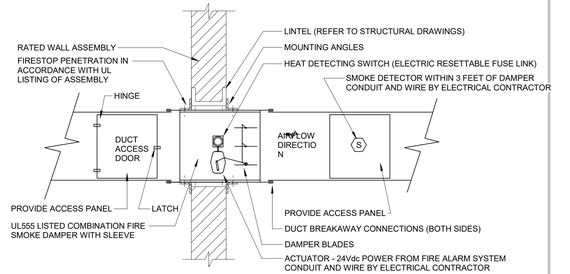
14. BUILDING STEEL
15. BUILT-UP ROOF OR CONCRETE
16. INSULATION AND CANT STRIP
17. CURB SLOPE REQUIREMENTS WHERE APPLICABLE

RTU NOISE REDUCTION SYSTEM

THE HUSH CORE SYSTEM SHALL BE A MULTI-LAYERED ACOUSTICAL COMPOSITE FOR PLACEMENT INSIDE THE ROOFTOP EQUIPMENT CURB.
OVERALL INSTALLED THICKNESS OF THE COMPOSITE PANELS SHALL BE A MAXIMUM OF 14" THICK.

3 RTU NOISE CONTROL DETAIL

SCALE: NONE



NOTES:

1. FIRE DAMPER RATING SHALL BE AS REQUIRED FOR THE PENETRATION UL ASSEMBLY.
2. ALL DAMPERS SHALL BE UL555 RATED AND MEET UL555S LEAKAGE CLASS. BREAKAWAY AND SLEEVE CONNECTIONS MUST BE INSTALLED AS PER SMACNA.
3. DAMPER PRESSURE LOSS MUST NOT EXCEED A MAXIMUM OF 0.05" OF STATIC PRESSURE LOSS AT THE SCHEDULED AIRFLOW AND VELOCITY. IF THE DAMPER SELECTION EXCEEDS THIS PRESSURE DROP, IT MUST BE OVERSIZED SUCH THAT IT MEETS THIS MINIMAL PRESSURE LOSS CRITERIA. PRESSURE LOSS AND CFM SHALL BE INDICATED ON SUBMITTAL FOR REVIEW.
4. DUCT ACCESS DOOR MUST BE LOCATED SUCH THAT FULL ACCESS TO ACTUATOR AND BLADES IS PROVIDED. IF THE DUCT ACCESS IS BEHIND A RATED ASSEMBLY, THAN A RATED ACCESS SHALL BE PROVIDED.
5. ALL ACTUATORS MUST BE 24Vdc AND POWERED FROM THE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL HAVE BATTERY BACKUP AND EMERGENCY POWER.
6. ALL FIRE/SMOKE DAMPERS MUST FAIL TO CLOSED UPON A LOSS OF POWER/SIGNAL.
7. RESPONSIBLE SUBCONTRACTORS:

   FIRE ALARM CONTRACT: FURNISH THE SMOKE DETECTOR

   MECHANICAL CONTRACT: FURNISH THE DAMPER, ACTUATOR, ELECTRONIC FUSE LINK, INSTALL THE DAMPER, ACTUATOR, ELECTRONIC FUSE LINK, SMOKE DETECTOR, ACCESS DOORS, FIRESTOPPING

   ELECTRICAL CONTRACT: WIRING/CONDUIT FOR SMOKE DETECTOR, ACTUATOR, ELECTRONIC FUSE LINK

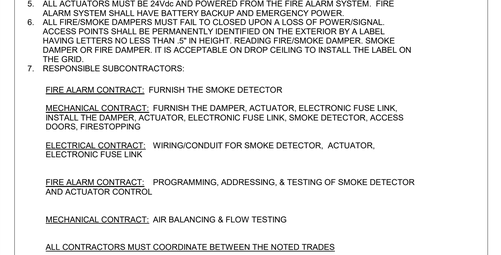
   FIRE ALARM CONTRACT: PROGRAMMING, ADDRESSING, & TESTING OF SMOKE DETECTOR AND ACTUATOR CONTROL

   MECHANICAL CONTRACT: AIR BALANCING & FLOW TESTING

   ALL CONTRACTORS MUST COORDINATE BETWEEN THE NOTED TRADES

6 SMOKE DAMPER DETAIL

SCALE: NONE



NOTES:

1. FIRE DAMPER RATING SHALL BE AS REQUIRED FOR THE PENETRATION UL ASSEMBLY.
2. ALL DAMPERS SHALL BE UL555 RATED AND MEET UL555S LEAKAGE CLASS. BREAKAWAY AND SLEEVE CONNECTIONS MUST BE INSTALLED AS PER SMACNA.
3. DAMPER PRESSURE LOSS MUST NOT EXCEED A MAXIMUM OF 0.05" OF STATIC PRESSURE LOSS AT THE SCHEDULED AIRFLOW AND VELOCITY. IF THE DAMPER SELECTION EXCEEDS THIS PRESSURE DROP, IT MUST BE OVERSIZED SUCH THAT IT MEETS THIS MINIMAL PRESSURE LOSS CRITERIA. PRESSURE LOSS AND CFM SHALL BE INDICATED ON SUBMITTAL FOR REVIEW.
4. DUCT ACCESS DOOR MUST BE LOCATED SUCH THAT FULL ACCESS TO ACTUATOR AND BLADES IS PROVIDED. IF THE DUCT ACCESS IS BEHIND A RATED ASSEMBLY, THAN A RATED ACCESS SHALL BE PROVIDED.
5. ALL ACTUATORS MUST BE 24Vdc AND POWERED FROM THE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL HAVE BATTERY BACKUP AND EMERGENCY POWER.
6. ALL FIRE/SMOKE DAMPERS MUST FAIL TO CLOSED UPON A LOSS OF POWER/SIGNAL.
7. RESPONSIBLE SUBCONTRACTORS:

   FIRE ALARM CONTRACT: FURNISH THE SMOKE DETECTOR

   MECHANICAL CONTRACT: FURNISH THE DAMPER, ACTUATOR, ELECTRONIC FUSE LINK, INSTALL THE DAMPER, ACTUATOR, ELECTRONIC FUSE LINK, SMOKE DETECTOR, ACCESS DOORS, FIRESTOPPPING.

   ELECTRICAL CONTRACT: WIRING/CONDUIT FOR SMOKE DETECTOR, ACTUATOR, ELECTRONIC, FUSE LINK.

   FIRE ALARM CONTRACT: PROGRAMMING, ADDRESSING, & TESTING OF SMOKE DETECTOR AND ACTUATOR CONTROL.

   MECHANICAL CONTRACT: AIR BALANCING & FLOW TESTING

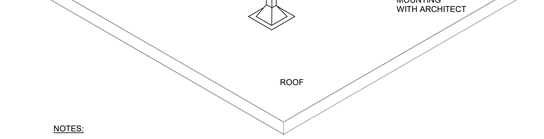
   ALL CONTRACTORS MUST COORDINATE BETWEEN THE NOTED TRADES

8. MECHANICAL CONTRACTOR- PROVIDE A P LABEL ON THE ACCESS PANEL. LETTERS SHALL BE 0.5" IN HEIGHT MIN. "FIRE/SMOKE DAMPER".

7 COMBINATION FIRE/SMOKE DAMPER DETAIL

SCALE: NONE

CONTRACTOR NOTE:
EQUIPMENT TO BE CONNECTED TO ADJACENT EQUIPMENT. TWO PIECES OF UNISTRUT ARE TO TIE INTO TWO POINTS ON EACH PIECE OF EQUIPMENT. CONTRACTOR TO COORDINATE CONNECTION POINTS IN THE FIELD PRIOR TO FINAL SETTING OF EQUIPMENT.



NOTES:

1. SUPPORT HEIGHT SHALL BE DETERMINED BY MANUFACTURER REQUIREMENTS AND THE LOCATION ANTICIPATED SNOWFALL.
2. COORDINATE WITH ARCHITECT FOR MULTIPLE HEAT PUMP ARRAY DIRECTION.
3. REFRIGERANT SYSTEMS CONTAINING MORE THAN 6.6 LBS. OF REFRIGERANT: INSTALL STOP VALVES AT THE SUCTION AND AT THE DISCHARGE OF EACH CONDENSING UNIT

4 ROOF MOUNTED ELEVATED HEAT PUMP DETAIL

SCALE: NONE

GENERAL NOTES

(A) RETAINING ANGLES: MINIMUM 1 1/2" X 1 1/2" X 0.054 (16GA).

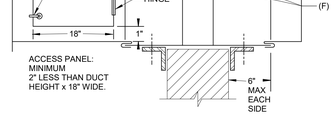
(B) CLEARENCE: 1/8" PER LINEAR FOOT BOTH DIMENSIONS WITH FIRESTOP CAULK.

(C) STEEL SLEEVE: 20 GUAGE STEEL

(D) U.L. LISTED FIRE DAMPER (CURTAIN OR BLADE TYPE)

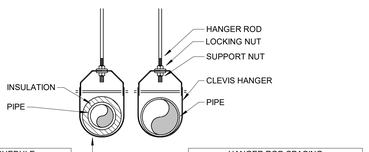
(E) SECURE RETAINING ANGLES TO SLEEVE ONLY ON 8" CENTERS WITH:
1. 1/2" LONG WELDS OR
2. 1/4" BOLTS AND NUTS, OR
3. NO. 10 STEEL SCREWS, OR
4. MINIMUM 3/16" STEEL RIVETS

(F) SECURE DAMPERS TO SLEEVE ON 8" CENTERS WITH:
1. 1/2" LONG WELDS OR
2. 1/4" BOLTS AND NUTS, OR
3. NO. 10 STEEL SCREWS, OR
4. MINIMUM 3/16" STEEL RIVETS



5 FIRE DAMPER DETAIL

SCALE: NONE



HANGER ROD SCHEDULE	
PIPE SIZE (COPPER)	ROD SIZE (Ø)
UP TO 2"	3/8"
2 1/2" TO 3"	1/2"
4"	1/2"
5"	5/8"
6"	5/8"

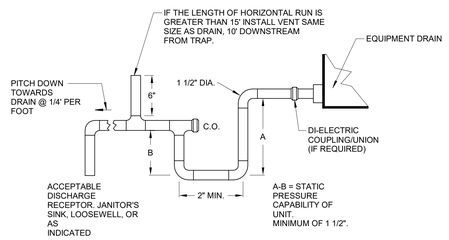
HANGER ROD SPACING	
PIPE SIZE (COPPER)	MAX. ALLOWABLE SPACING
UP TO 3/4"	5'-0"
1"	6'-0"
1-1/4"	7'-0"
1 1/2" THRU 2 1/2"	8'-0"
3" AND 4"	10'-0"
5" AND 6"	12'-0"

NOTES:

1. INSTALL PLUMB.
2. BORE OF WASHER OR SPRING RETAINER TO BE SAME SIZE AS ROD.
3. WELD WASHER OR SPRING RETAINER TO ROD.

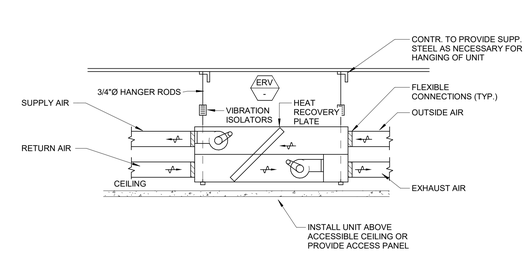
8 TYPICAL COPPER PIPE HANGER DETAIL

SCALE: NONE



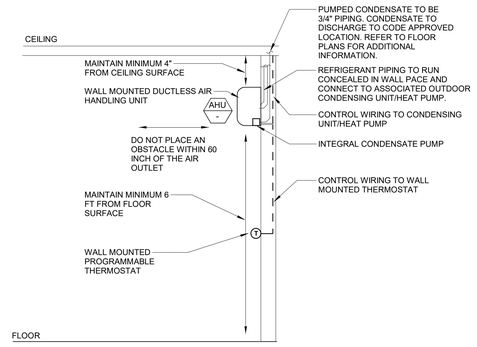
9 CONDENSATE TRAP DETAIL

SCALE: NONE



10 ENERGY RECOVERY VENTILATION UNIT DETAIL

SCALE: NONE



NOTE:

1. INSTALL PER MANUFACTURER REQUIREMENTS.

11 WALL MOUNTED DUCTLESS AHU W/ INTEGRAL CONDENSATE PUMP DETAIL

SCALE: NONE

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DETAILS- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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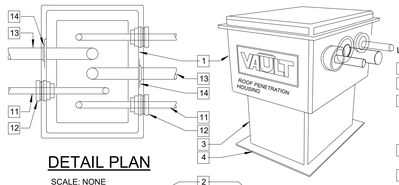
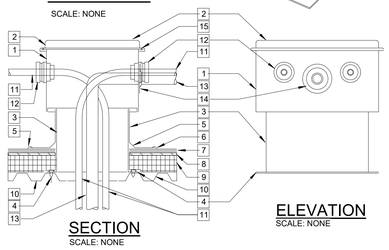


DETAIL PLAN

SCALE: NONE



SECTION

SCALE: NONE

ELEVATION

SCALE: NONE

LEGEND

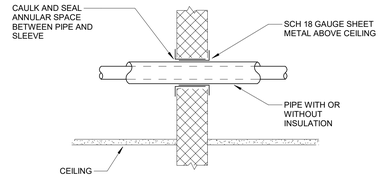
1. THE VAULT (SPECIFY MODEL)
2. MATCHING WIND RATED ALUMINUM COVER.
3. MATCHING ALUMINUM CURB 14" HIGHMIN. CURB MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. CURB FLANGE, FASTEN TO ROOF DECK
5. SBS FLASHING MEMBRANE
6. CONTINUOUST CAULK WITH RUBBERIZED ASPHALT SEALANT
7. ROOFING SYSTEM
8. RECOVERY BOARD
9. RIGID INSULATION
10. METAL ROOF DECK
11. CONDUIT, PIPE, REFRIGERANT LINE, ETC. SIZES FROM 0.25" THRU 1.90" O.D.
12. SERIES 5000 EXIT SEAL FOR SIZES FROM 0.25" THRU 1.90" O.D.
13. CONDUIT, PIPE, REFRIGERANT LINE, ETC. SIZES FROM 1.90" THRU 15" O.D.
14. SERIES 6000 & 7000 EXIT SEAL FOR SIZES FROM 1.90" THRU 15" O.D.
15. VANDAL RESISTANT STAINLESS SCREWS

NOTES:

1. ALL VAULT MODELS COMPLY WITH ICC 2015 SECTION C402.1 - BUILDING ENVELOPE ROOF AIRLEAKAGE AND FEMA/ICC-500.
2. MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE VAULT AND APPROPRIATE TRADES TO PROVIDE EXIT SEALS.
3. COORDINATE WITH PLUMBING AND ELECTRICAL CONTRACTOR.

1 PIPE PENTRATION ROOF CURB DETAIL

SCALE: NONE



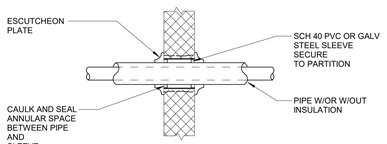
NOTES:

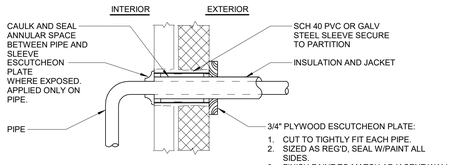
1. TYP FOR NON-INSULATED PIPE AND CONDUIT.
2. TYP FOR MASONRY AND CONCRETE WALL.
3. FIRE RATED WALLS MUST BE SEALED WITH APPROPIATE FIRE RETARDED CAULKING.

2 PIPE PENETRATION THRU WALL ABOVE CEILING DETAIL

SCALE: NONE

NOTE:
WHERE PIPING IS EXPOSED AT FINISH WALLS, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE.



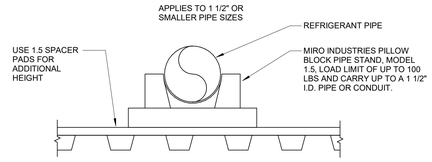


NOTES:

1. TYP FOR NON INSULATED PIPE AND CONDUIT.
2. TYP FOR MASONRY OR CONCRETE WALL.
3. FIRE RATED WALL MUST BE SEALED W/APPROPRIATE FIRE RETARDED CAULKING.
4. ESCUTCHEONS ARE MADE TO FIT PIPE ONLY.

3 PIPE PENTRATION THRU WALLS DETAIL

SCALE: NONE



REFRIGERANT PIPING NOTE:

1. GUIDE HOLES ARE PROVIDED AT THE TOP OF THE CRADLE FOR LOOSE INSTALLATION OF "PLUMBING TAPE" USING 1/2" #10SCREWS TO PREVENT SEPARATION OF THE PIPE STAND.
2. PROVIDE SUPPORT AT 4'-0" O.C. AND AT THE FITTINGS.

4 REFRIGERANT PIPE SUPPORT ON ROOF

SCALE: NONE

GENERAL SYMBOLS

- MECHANICAL EQUIPMENT
- NEW DUCTWORK
- EXISTING DUCTWORK
- DUCTWORK TO BE DEMOLISHED
- FLEXIBLE DUCTWORK
- NEW CONNECTION TO EXISTING
- POINT OF REMOVAL
- AP — ACCESS PANEL
- PUMP

PIPING SYMBOLS

- A — COMPRESSED AIR
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- C/D — A/C UNIT DRAIN
- V — TYPE B GAS VENT
- CONTINUATION/BREAK
- INLINE PUMP
- THERMOMETER
- GATE VALVE
- PIPE DOWN
- PIPE UP
- RELIEF VALVE
- CHECK VALVE
- SHUT-OFF VALVE
- BALL VALVE
- BALL VALVE
- STRAINER W/ BLOW OFF VALVE
- BALANCING VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- UNION
- BUTTERFLY VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- DOUBLE CHECK BACKFLOW PREVENTER
- RPZ — RPZ TYPE BACKFLOW PREVENTER
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- TEMPERATURE & PRESSURE RELIEF VALVE
- PIPE REDUCER
- PIPE INCREASER
- PIPE FLEXIBLE CONNECTION

CONTROLS SYMBOLS

- FD — FUSIBLE LINK FIRE DAMPER
- FLFD
- FSD — COMBINATION FIRE/SMOKE DAMPER
- SD — SMOKE DAMPER
- M — MOTOR OPERATED DAMPER
- CAR — CONSTANT AIRFLOW REGULATOR
- CO — CARBON MONOXIDE SENSOR
- CO/NO — COMBINATION CARBON MONOXIDE / NITROGEN DIOXIDE SENSOR
- C CO_2 — CARBON DIOXIDE SENSOR
- T — THERMOSTAT HEIGHT 54" STANDARD HEIGHT 48" HANDICAP
- H — HUMIDISTAT
- TS — TEMPERATURE SENSOR
- S — WALL SWITCH
- FM — WATER FLOW MEASURING DEVICE
- T — DUCT MOUNTED TEMPERATURE SENSOR
- H — DUCT MOUNTED ENTHALPY SENSOR
- DP — DUCT MOUNTED DEW POINT SENSOR
- SP — DUCT MOUNTED STATIC PRESSURE SENSOR
- CO — DUCT MOUNTED CARBON MONOXIDE SENSOR
- P — PRESSURE SENSOR / TRANSMITTER

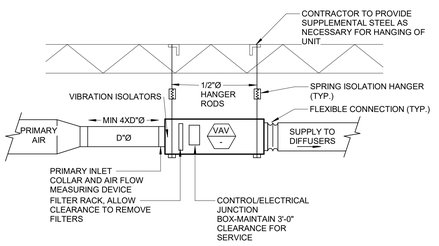
DUCTWORK SYMBOLS

- SUPPLY DIFFUSER
- SUPPLY DIFFUSER W/ROUND DUCT CONNECTION
- RETURN / EXHAUST REGISTER/GRILLE
- SPIN IN TAP W/DAMPER
- SPIN IN TAP W/DAMPER BOTTOM TAKEOFF
- SPIN IN TAP W/DAMPER TOP TAKEOFF
- TAKEOFF W/DAMPER
- FLEXIBLE CONNECTION
- TRANSITION FROM RIGID DUCT TO ROUND FLEXIBLE DUCT
- DUCT REDUCER
- VD — VOLUME DAMPER
- 1" DOOR UNDERCUT
- M — MOTOR OPERATED DAMPER
- BACKDRAFT DAMPER

- (E) 10"x8" — EXISTING DUCTWORK
- (E) 10"x8" (E) 10"x8" — DUCTWORK (TO BE DEMOLISHED)
- 10"x8" — NEW DUCTWORK (WIDTH X DEPTH)
- FABRIC DUCTWORK
- 10"x8" — RECTANGULAR DUCTWORK WITH ACOUSTICAL LINER
- 10"x8" KITCH. EXH — GREASE LADEN EXHAUST DUCTWORK WITH FIRE RESISTANT WRAP
- UP DOWN — POSITIVE PRESSURE DUCT UP & DN
- UP DOWN — NEGATIVE PRESSURE DUCT UP & DN
- SUPPLY REGISTER OR GRILLE (WALL TYPE)
- EXHAUST OR RETURN GRILLE (CEILING TYPE)
- EXHAUST OR RETURN GRILLE (WALL TYPE)
- VANED ELBOW AND AIR SPLIT TYPE DUCT TAKE-OFF
- RISE — INCLINED RISE, IN DIRECTION OF AIR FLOW
- DRO — INCLINED DROP, IN DIRECTION OF AIR FLOW
- FC — FLEXIBLE CONNECTION
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
- VANED ELBOW (SHORT RADIUS)
- STANDARD RADIUS ELBOW
- FLEXIBLE DUCTWORK
- VD — VOLUME DAMPER
- FD — FIRE DAMPER
- DUCT TRANSITION
- 10"x8" — STANDARD BRANCH TAKE-OFF (SUPPLY OR RETURN)

5 MECHANICAL SYMBOLS AND ABBREVIATIONS

SCALE: NONE

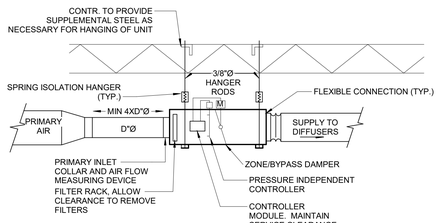


NOTE:

1. CONTRACTOR IS TO INSTALL THE UNIT TO ALLOW SUFFICIENT SERVICE CLEARANCES AS RECOMMENDED BY THE MANUFACTURER AND 3'-0" CLEAR IN FRONT ELECTRICAL DEVICES.
2. ATC CONTRACTOR TO INSTALL A BACNET BOARD, BY BAS MANUFACTURER.

6 FAN POWERED VAV UNIT DETAIL (WITH ELECTRIC HEAT)

SCALE: NONE

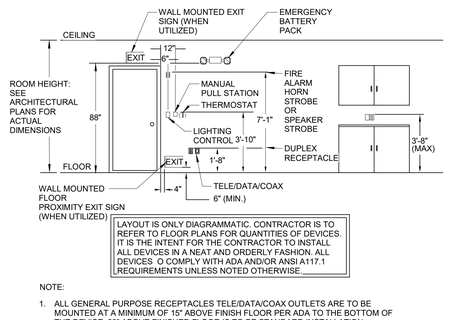


NOTE:

1. CONTRACTOR IS TO INSTALL THE UNIT TO ALLOW SUFFICIENT SERVICE CLEARANCES AS RECOMMENDED BY THE MANUFACTURER AND 3'-0" CLEAR IN FRONT OF ELECTRICAL DEVICES.
2. ATC CONTRACTOR TO INSTALL A BACNET BOARD, BY BAS MANUFACTURER.
3. INSTALL RETURN AIR PLENUM ACCESORY.

7 VAV/ZONE DAMPER UNIT DETAIL

SCALE: NONE



LAYOUT IS ONLY DIAGRAMMATIC. CONTRACTOR IS TO REFER TO FLOOR PLANS FOR QUANTITIES OF DEVICES. IT IS THE INTENT FOR THE CONTRACTOR TO INSTALL ALL DEVICES IN A NEAT AND ORDERLY FASHION. ALL DEVICES O COMPLY WITH ADA AND/OR ANSI A117.1 REQUIREMENTS UNLESS NOTED OTHERWISE.

NOTE:

1. ALL GENERAL PURPOSE RECEPTACLES TELE/DATA/COAX OUTLETS ARE TO BE MOUNTED AT A MINIMUM OF 15" ABOVE FINISH FLOOR PER ADA TO THE BOTTOM OF THE DEVICE. 20" ABOVE FINISHED FLOOR IS TO BE STANDARD INSTALLATION HEIGHT TO THE TOP OF THE DEVICE BOX.
2. ALL GENERAL PURPOSE RECEPTACLES, LIGHTING SWITCHES AND LOW VOLTAGE OUTLETS ABOVE COUNTERTOPS ARE TO BE MOUNTED A MAXIMUM OF 44" ABOVE FINISHED FLOOR TO THE TOP OF THE DEVICE BOX. 8" ABOVE COUNTERTOP IS STANDARD.
3. LIGHTING CONTROLS AND FIRE ALARM PULL STATIONS ARE TO BE MOUNTED AT MAXIMUM OF 46" ABOVE FINISHED FLOOR. DEVIATIONS FROM THE STANDARD MOUNTING HEIGHTS ABOVE MAY BE INCORPORATED FOR EASE OF INSTALLATION DUE TO ARCHITECTURAL ITEMS SUCH AS TILES, HAND RAILS, ETC. DEVICES TO BE A MAXIMUM OF 48" ABOVE FINISHED FLOOR TO THE OPERATING HANDLE.
4. THERMOSTATS ARE INDICATED FOR SIDE REACH APPLICATIONS. WHEN LOCKABLE COVERS ARE PROVIDED, THERMOSTATS ARE TO BE MOUNTED AT 4'-6".

8 TYPICAL DEVICE ELEVATION DETAIL

SCALE: NONE

REFRIGERANT PIPING GENERAL NOTES:

1. ALL SPLIT SYSTEM COOLING UNITS AND HEAT PUMPS WILL REQUIRE STRICT ADHERENCE TO MANUFACTURER'S DATA SHEETS FOR LONG LINESET INSTALLATION.
2. CONTRACTOR MUST SUBMIT CALCULATED LINESET LENGTH, ELEVATION, SIZE, AND REFRIGERANT CHARGE VOLUME FOR EACH SYSTEM OR ENGINEER APPROVAL WILL NOT BE GRANTED. PROVIDE DOCUMENTATION THAT EACH SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES, SYSTEM DE-RATING, DROP IN PERFORMANCE/CAPACITY, OR LOSS OF EFFICIENCY SHALL NOT BE ACCEPTABLE. PROVIDE WARRANTY FROM MANUFACTURER AS WELL AS ON INSTALLATION.
3. ALL LINESETS MUST BE EXTENDED AS STRAIGHT AND DIRECT AS POSSIBLE WITH THE MINIMAL AMOUNT OF ELBOWS POSSIBLE.
4. PROVIDE PIPING SUPPORTS ON ROOF AT A MINIMUM OF 48" ON CENTER.
5. INSTALL OVERSIZED PIPING, ADDITIONAL INSULATION, CRANKCASE HEATERS, HARD START KITS, OIL TRAPS, SUCTION RISERS, THERMAL EXPANSION VALVES, LIQUID LINE SOLENOIDS, AND ADDITIONAL CHARGE WHEREVER REQUIRED.
6. CONTRACTOR MUST PROVIDE FACTORY START-UP AND VERIFICATION FOR EVERY SYSTEM INSTALLED.
7. EXPOSED REFRIGERANT PIPING, POWER AND CONTROL WIRING EXTENDING FROM THE BUILDING TO THE REMOTE CONDENSING UNITS SHALL BE PROTECTED AND INSULATED WITH SPLIT TYPE INSULATION WITH PVC JACKET AND CEMENTED JOINTS FOR PIPING LARGER THEN 7/8" TUBE WITH 1" INSULATION. ALL PIPING SMALLER SHALL HAVE A JACKETING SYSTEMS BASED ON AIREX E-FLEX GUARD.
8. WALL/DOGHOUSE PIPING PENTRATION TO BE SEALED TIGHT AND INSTALLED WITH AIREX PENETRATION KIT. REFER TO DETAIL FOR ADDITONAL INFORMATION.

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DETAILS- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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AIR DEVICE SCHEDULE

TAG	CFM RANGE MIN-MAX	TYPE	NECK SIZE	DEVICE SIZE	NC	DAMPER	MATERIAL	FINISH	MANUFACTURER	MODEL	COMMENTS
SR	0 - 125	SUPPLY REGISTER	8x6	8x6	25	YES, O.B.D.	ALUMINUM	BY ARCH.	PRICE	620	ADJUSTABLE DOUBLE DEFLECTION SUPPLY REGISTER.
	125 - 250	"	10x6	10x6	"	"	"	"	"	"	"
	250 - 325	"	12x6	12x6	"	"	"	"	"	"	"
	325 - 400	"	12x8	12x8	"	"	"	"	"	"	"
SD	0 - 125	SUPPLY DIFFUSER	6"Ø	22x22	25	YES	STEEL	BY ARCH.	PRICE	SPD	SQUARE PLAQUE DIFFUSER, ROUND CONNECTION.
	125 - 230	"	8"Ø	22x22	"	"	"	"	"	"	"
	230 - 320	"	10"Ø	22x22	"	"	"	"	"	"	"
	320 - 450	"	12"Ø	22x22	"	"	"	"	"	"	"
LBG	0 - 135	SUPPLY LINEAR GRILLE	12"x4"	12"x4"	20	YES	ALUMINUM	BY ARCH.	PRICE	LBPH	HEAVY DUTY LINEAR BAR GRILLE. 1/4" SPACING, 15° DEFLECTION, CURVED CONSTRUCTION.
	135 - 270	"	24"x4"	24"x4"	"	"	"	"	"	"	"
	270 - 405	"	36"x4"	36"x4"	"	"	"	"	"	"	"
RR / ER	25 - 90	RETURN REGISTER	6"x6"	6"x6"	28	YES, O.B.D.	ALUMINUM	BY ARCH.	PRICE	630	SURFACE MOUNT LOUVERED RETURN / EXHAUST REGISTER
	90 - 150	"	8"x6"	8"x6"	"	"	"	"	"	"	"
	150 - 250	"	10"x6"	10"x6"	"	"	"	"	"	"	"
	250 - 325	"	12"x6"	12"x6"	"	"	"	"	"	"	"
	325 - 400	"	12"x8"	12"x8"	"	"	"	"	"	"	"
RG	0 - 360	RETURN GRILLE	12"x12"	12"x12"	25	NO	ALUMINUM	BY ARCH.	PRICE	630	FIXED BLADE LOUVERED RETURN GRILLE, 3/4" SPACING, 45° DEFLECTION
	360 - 625	"	16"x16"	16"x16"	"	"	"	"	"	"	"
	360 - 720	"	24"x12"	24"x12"	"	"	"	"	"	"	"
	360 - 1,000	"	24"x24"	24"x24"	"	"	"	"	"	"	"
	1,800 - 2,500	"	48"x20"	48"x20"	23	"	"	"	"	"	"
LD4	145 - 200	LINEAR SLOT DIFFUSSER	8"Ø	48"L	23	YES	STEEL	BY ARCH.	PRICE	SDS	LINEAR SLOT SUPPLY DIFFUSER - (2) 1.5 INCH SLOT W/ INSULATED PLENUM (WITH BUTTERFLY DAMPER).
	200 - 280	"	8"Ø	48"L	27	"	"	"	"	"	LINEAR SLOT SUPPLY DIFFUSER - (2) 1.5 INCH SLOT W/ INSULATED PLENUM (WITH BUTTERFLY DAMPER).
	280 - 365	"	10"Ø	48"L	25	"	"	"	"	"	LINEAR SLOT SUPPLY DIFFUSER - (3) 1.5 INCH SLOT W/ INSULATED PLENUM (WITH BUTTERFLY DAMPER).
LDR4	0 - 400	LINEAR SLOT RETURN	-	48"L	25	NO	STEEL	BY ARCH.	PRICE	SDR	LINEAR SLOT RETURN DIFFUSER - (2) 1 INCH SLOT. OPEN TO CEILING PLENUM.
	400 - 600	"	-	48"L	25	NO	STEEL	"	PRICE	SDR	LINEAR SLOT RETURN DIFFUSER - (3) 1 INCH SLOT. OPEN TO CEILING PLENUM.
LD5	180 - 250	LINEAR SLOT DIFFUSSER	8"Ø	60"L	23	YES	STEEL	BY ARCH.	PRICE	SDS	LINEAR SLOT SUPPLY DIFFUSER - (2) 1.5 INCH SLOT W/ INSULATED PLENUM (WITH BUTTERFLY DAMPER).
	250 - 350	"	10"Ø	60"L	27	"	"	"	"	"	LINEAR SLOT SUPPLY DIFFUSER - (2) 1.5 INCH SLOT W/ INSULATED PLENUM (WITH BUTTERFLY DAMPER).
	350 - 455	"	10"Ø	60"L	25	"	"	"	"	"	LINEAR SLOT SUPPLY DIFFUSER - (3) 1.5 INCH SLOT W/ INSULATED PLENUM (WITH BUTTERFLY DAMPER).
LDR5	0 - 500	LINEAR SLOT RETURN	-	60"L	25	NO	STEEL	BY ARCH.	PRICE	SDR	LINEAR SLOT RETURN DIFFUSER - (2) 1 INCH SLOT. OPEN TO CEILING PLENUM.
	500 - 750	"	-	60"L	25	NO	STEEL	"	PRICE	SDR	LINEAR SLOT RETURN DIFFUSER - (3) 1 INCH SLOT. OPEN TO CEILING PLENUM.
CAR	75, 90, 105	CONSTANT VOL. EXHAUST	6"Ø	10"x10"	25	INTEGRAL	ALUMINUM	BY ARCH.	ALDES	CER-R-II	SELF REGULATING EXHAUST REGISTER WITH ROUND CONNECTION. PROVIDE WITH CEILING RADIATION DAMPER.
	125, 140, 160, 175	"	8"Ø	10"x10"	"	"	"	"	"	"	"
	205	"	8"Ø	10"x10"	"	"	"	"	"	"	"
SDG	100-275	SPIRAL DUCT GRILLE	10"x6"	10"x6"	22	AIR SCOOP	STEEL	STEEL	PRICE	SDGE	SPIRAL DUCT SUPPLY GRILLE. PROVIDE AIR SCOOP DAMPER.
	275-350	"	12"x6"	12"x6"	19-30	"	"	"	"	"	"
	350-450	"	14"x6"	14"x6"	24-30	"	"	"	"	"	"
	450-600	"	18"x6"	18"x6"	25-30	"	"	"	"	"	"

GENERAL COMMENTS:

1. USE SCHEDULE SIZE UNLESS OTHERWISE NOTED ON THE PLANS.
2. PROVIDE BLOW PATTERNS AS SHOWN ON DRAWING.
3. PROVIDE AIR DEVICE FRAMES TO SUIT WALL AND CEILING CONSTRUCTION.
4. ALUMINUM DEVICES ARE TO BE PROVIDED IN MOIST AREAS, I.E. TOILET ROOMS.
5. FOR LAY-IN CEILING PROVIDE A 2'x2' PAN FOR A 12"x12" FACE SIZE DIFFUSERS.
5. BRANCH DUCT DIAMETER SHALL BE REDUCED AT COLLAR CONNECTIONS TO DIFFUSER.
6. COORDINATE FINAL AIR DEVICE SELECTIONS AND COLORS WITH ARCHITECT.
7. ALL AIR DEVICE FRAMES / BORDERS SHALL HAVE A MOUNTING FLANGE SPECIFICALLY SELECTED FOR THE TYPE OF CEILING IN WHICH IT IS BEING INSTALLED.

PACKAGED DX/GAS ROOFTOP UNIT (RTU)

TAG	SERVES	SUPPLY FAN AIRFLOW (CFM) / ESP (IN. W.C.)	OUTSIDE AIR (CFM)	NOMINAL TONNAGE	REFRIGERANT	GAS CONN. (IN.)	COND. CONN. (IN.)	COOLING (DX)				HEATING (NAT. GAS)				DEHUMIDIFICATION			ELECTRICAL		DIMENSIONS L x W x H (IN.)	WEIGHT (LBS)	BASIS OF DESIGN	MODEL	COMMENTS
								TOTAL / SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	DESIGN EER	INPUT / OUTPUT CAPACITY (MBH)	AFUE (%)	MIN-MAX GAS PRESSURE (IN. W.C.)	NO. OF STAGES	EAT / LAT (°F)	TYPE	CAPACITY (MBH)	EAT DB (°F) / RH	V / Ø	UNIT FLA / MCA / MOCP				
RTU-1	FLOORS 1 AND 2. AREA A	20,750 / 1.5	5,800	70	R-454B	1	1-1/4	872 / 578	80.7 / 66.3	55 / 54	17.6 SEER	850 / 688	81	7 - 14	HIGH MODULATING	60 / 90	HOT GAS REHEAT	836	73 / 64	460 / 3	- / 195 / 250	394 x 119 x 87	11,945	TRANE	SFHPF704P	1 THROUGH 26
RTU-2	FLOORS 1 AND 2. AREA A	18,000 / 1.25	4,600	60	R-454B	1	1-1/4	685 / 460	81.8 / 67.1	55 / 54	18.3 SEER	850 / 688	81	7 - 14	HIGH MODULATING	60 / 95.6	HOT GAS REHEAT	725	73 / 64	460 / 3	- / 159 / 250	394 x 119 x 87	11,518	TRANE	SFHPF604P	1 THROUGH 26
RTU-3	FIRST FLOOR AREA B	12,000 / 1.25	2,700	40	R-454B	1	1-1/4	428 / 305	80.4 / 66.4	52.6 / 52.4	16.8 SEER	850 / 688	81	7 - 14	HIGH MODULATING	60 / 113	HOT GAS REHEAT	475	73 / 64	460 / 3	- / 115 / 150	394 x 93.5 x 87	9,001	TRANE	SFHPF404P	1 THROUGH 26

COMMENTS:

1. 1 YEAR MANUFACTURER'S WARRANTY AND START-UP. 5 YEAR COMPRESSOR WARRANTY.
2. ELECTRICAL DISCONNECTING MEANS BY E.C.
3. 120V CONVENIENCE RECEPTACLE.
4. DUCT MOUNTED SMOKE DETECTOR FOR UNITS WITH AIRFLOW 2,000 CFM AND HIGHER.
5. SUPPLY AND RETURN DUCT SMOKE DETECTORS BY E.C.
6. ROOF CURB WITH VIBRATION ISOLATION RAIL.
7. DIRECT DRIVE FAN MOTORS WITH VFD.
8. MERV-14 FILTERS.
9. MODULATING ENTHALPY ECONOMIZER AND POWER EXHAUST.
10. 100% MODULATING EXHAUST WITH SPACE SENSING BUILDING PRESSURE CONTROL.
11. FACTORY MOUNTED OUTSIDE AIRFLOW MEASURING STATION WITH DEMAND CONTROL VENTILATION.
12. INSULATED CABINET CONSTRUCTION.
13. PROVIDE SUPPLY AIR DUCT TEMPERATURE AND HUMIDITY SENSORS.
14. MODULATING HOT GAS REHEAT.
15. VARIABLE SPEED DIGITAL SCROLL COMPRESSORS.
16. STAINLESS STEEL DRAIN PANS.
17. VAV DISCHARGE TEMPERATURE CONTROL. SUPPLY AND EXHAUST VFD WITH BYPASS.
18. STAINLESS STEEL GAS HEAT EXCHANGER WITH FORCED DRAFT IGNITION.
19. GAS PRESSURE REGULATOR.
20. CONDENSER COIL GUARDS.
21. EXTEND CONDENSATE PIPING TO NEAREST ROOF DRAIN.
22. ALL ROOFTOP EQUIPMENT PIPING AND POWER CONNECTIONS TO BE INSTALLED WITH PIPING CURB, SEALED TIGHT, AND WARRANTED BY ROOF CONTRACTOR.
23. FACTORY PROVIDED, FIELD MOUNTED BACNET CONTROLLER. CONTROLLER TO BE PROGRAMMED AND INTEGRATED INTO THE NEW BAS BY THE ATC CONTRACTOR.
24. PROVIDE WITH ROOFTOP UNIT SCREEN. ATTACHED TO THE UNIT, ALL ALUMINUM VENTED LOUVER PANELS.MANUFACTURER: ENVISOR. COLOR TO BE SELECTED BY ARCHITECT.
25. PROVIDE RTU WITH A HUSHCORE DECK SYSTEM IN-CURB ACOUSTICAL TREATMENT. MODEL DS-53. REFER TO DETAIL.
26. EQUIVALENTS ONLY ALLOWED IF PRE-APROVED BY THE ENGINEER PRIOR TO BIDS DUE DATE, AND MEETS ALL PERFORMANCE, DIMENSIONAL, AND EFFICIENCY REQUIREMENTS.

EXHAUST FAN SCHEDULE

TAG	TYPE	DRIVE	AREAS SERVED	AIRFLOW (CFM)	EXT. STATIC PRESSURE (IN. W.C.)	SOUND RATING (DBA / SONES)	ELECTRICAL			DIMENSIONS L x W x H (IN.)	WEIGHT (LBS)	CONTROL	BASIS OF DESIGN	MODEL	COMMENTS
							V / Ø	MOTOR HP	FAN FLA						
EF-1	ROOF MTD DOWNBLAST	DIRECT	1ST AND 2ND FLOOR TOILET ROOMS	450	0.5	57 / 8.4	120 / 1	1/8	-	23"Ø x 22	24	CONSTANT OPERATION DURING OCC. HOURS	LOREN COOK	100 ACE D	1 THROUGH 9
EF-2	ROOF MTD DOWNBLAST	DIRECT	1ST FLOOR TOILET ROOMS	820	0.5	53 / 6.6	120 / 1	1/4	-	28"Ø x 28	30	CONSTANT OPERATION DURING OCC. HOURS	LOREN COOK	120 ACE D	1 THROUGH 9
EF-3	ROOF MTD DOWNBLAST	DIRECT	1ST FLOOR TOILET ROOMS AREA B	400	0.5	57 / 6.8	120 / 1	1/8	-	23"Ø x 22	24	CONSTANT OPERATION DURING OCC. HOURS	LOREN COOK	100 ACE D	1 THROUGH 9
EF-4	ROOF MTD DOWNBLAST	DIRECT	1ST FLOOR JANITOR'S ROOM	150	0.5	50 / 5.6	120 / 1	1/8	-	18"Ø x 16	22	CONSTANT OPERATION	LOREN COOK	90 ACE D	1 THROUGH 9
EF-5	ROOF MTD DOWNBLAST	DIRECT	2ND FLOOR TOILET ROOMS	150	0.5	50 / 5.6	120 / 1	1/8	-	18"Ø x 16	22	CONSTANT OPERATION DURING OCC. HOURS	LOREN COOK	90 ACE D	1 THROUGH 9
EF-L	ROOF MTD DOWNBLAST	DIRECT	LOADING DOCK	2,000	0.375	57 / 8.5	120 / 1	1/3	-	32"Ø x 29	78	CO SENSOR	LOREN COOK	165 ACE D	1 THROUGH 9
EF-E1	ROOF MTD DOWNBLAST	DIRECT	DOUBLE ELEVATOR	300	0.5	53 / 6.8	120 / 1	1/8	-	18"Ø x 16	22	TEMPERATURE SENSOR AT TOP OF ELEV SHAFT	LOREN COOK	90 ACE D	1 THROUGH 9
EF-E2	ROOF MTD DOWNBLAST	DIRECT	SINGLE ELEVATOR	150	0.5	50 / 5.6	120 / 1	1/8	-	18"Ø x 16	22	TEMPERATURE SENSOR AT TOP OF ELEV SHAFT	LOREN COOK	90 ACE D	1 THROUGH 9
EF-MS	ROOF MTD DOWNBLAST	DIRECT	MAKER SPACE	NOTE 10	NOTE 10	NOTE 10	120 / 1	1/8	-	-	-	HOOD OR WALL MTD SWITCH	LOREN COOK	NOTE 10	1 THROUGH 10

COMMENTS:

1. ELECTRICAL DISCONNECTING MEANS BY E.C.
2. INTEGRAL GRAVITY BACKDRAFT DAMPER.
3. HINGED ROOF CURB.
4. ALUMINUM WHEEL.
5. BIRDSCREEN.
6. FLEXIBLE DUCT CONNECTIONS.
7. FAN SPEED CONTROLLER. 5A 120V PREWIRED.
8. MOTOR STARTERS TO BE PROVIDED BY:
   - MECHANICAL CONTRACTOR FOR MOTORS ABOVE 1/2 HP
   - ELECTRICAL CONTRACTOR FOR MOTORS UP TO 1/2 HP
9. ELECTRICAL CONTRACTOR SHALL INSTALL ALL STARTERS EXCEPT FOR THOSE INTEGRAL TO THE EQUIPMENT
10. FINAL FAN SELECTION TO BE CONFIRMED AFTER MAKER SPACE HOOD IS SELECTED.

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05/05/2026

McHUGH ENGINEERING ASSOCIATES INC.
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SCHEDULES- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

M3.1

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SINGLE DUCT VAV BOX SCHEDULE SCHEDULE (VAV)

TAG	TYPE	AREAS SERVED	MIN-MAX COOLING (PRIMARY)...	HEATING (PRIMARY) AIRFLOW (CFM)	INLET STATIC PRESSURE (IN. W.C.)	INLET DUCT SIZE (IN.)	HEATING @ 55F PRIMARY AIR					ELECTRICAL (208V / 1Ø)		DIMENSIONS L x W x H (IN.)	WEIGHT (LBS)	SOUND RATING (DBA)	BASIS OF DESIGN	MODEL	COMMENTS
							HEATING TYPE	V / Ø	CAPACIT Y (KW)	NO. OF ELEMENTS /...	LAT (F)	HEATING FLA	UNIT MCA						
VAV 1-1.1	SINGLE DUCT	SEE PLANS	320 - 800	320	-	8	ELECTRIC	480 / 3	3.5	SCR	94.6	4.2	5.3	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.2	SINGLE DUCT	SEE PLANS	240 - 600	240	-	8	ELECTRIC	208 / 1	2.5	SCR	92.9	12.0	15.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.3	SINGLE DUCT	SEE PLANS	415 - 1030	415	-	10	ELECTRIC	480 / 3	3.5	SCR	86.8	4.2	5.3	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.4	SINGLE DUCT	SEE PLANS	410 - 1025	410	-	10	ELECTRIC	480 / 3	4	SCR	90.8	4.8	6.0	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.5	SINGLE DUCT	SEE PLANS	400 - 1000	400	-	10	ELECTRIC	480 / 3	3.5	SCR	87.6	4.2	5.3	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.6	SINGLE DUCT	SEE PLANS	380 - 950	380	-	10	ELECTRIC	208 / 1	3	SCR	89.1	14.4	18.0	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.7	SINGLE DUCT	SEE PLANS	150 - 300	150	-	6	ELECTRIC	208 / 1	1.5	SCR	91.6	7.2	9.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.8	SINGLE DUCT	SEE PLANS	225 - 450	225	-	8	ELECTRIC	208 / 1	2	SCR	88.1	9.6	12.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.9	SINGLE DUCT	SEE PLANS	325 - 650	325	-	8	ELECTRIC	208 / 1	3	SCR	89.2	14.4	18.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.10	SINGLE DUCT	SEE PLANS	280 - 700	280	-	8	ELECTRIC	208 / 1	2	SCR	82.6	9.6	12.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-1.11	SINGLE DUCT	SEE PLANS	325 - 650	325	-	8	ELECTRIC	208 / 1	3	SCR	89.2	14.4	18.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-2.1	SINGLE DUCT	SEE PLANS	400 - 1000	400	-	10	ELECTRIC	480 / 3	3.5	SCR	93.6	4.2	5.3	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 1-2.2	SINGLE DUCT	SEE PLANS	150 - 300	150	-	6	ELECTRIC	208 / 1	1.5	SCR	91.2	7.2	9.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-2.5	SINGLE DUCT	SEE PLANS	600 - 1200	600	-	10	ELECTRIC	480 / 3	6.5	SCR	94.2	7.8	9.8	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 1-2.6	SINGLE DUCT	SEE PLANS	320 - 800	320	-	8	ELECTRIC	480 / 3	3.5	SCR	94.6	4.2	5.3	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-2.7	SINGLE DUCT	SEE PLANS	325 - 650	325	-	8	ELECTRIC	480 / 3	3.5	SCR	94.0	4.2	5.3	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 1-2.8	SINGLE DUCT	SEE PLANS	320 - 800		-	8	ELECTRIC	208 / 1	3	SCR	89.6	14.4	18.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 14
				320															
VAV 2-1.1	SINGLE DUCT	SEE PLANS	300 - 750	300	-	8	ELECTRIC	208 / 1	2	SCR	81.1	9.6	12.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-1.2	SINGLE DUCT	SEE PLANS	390 - 975	390	-	10	ELECTRIC	208 / 1	3	SCR	84.3	14.4	18.0	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 2-1.3	SINGLE DUCT	SEE PLANS	360 - 900	360	-	10	ELECTRIC	208 / 1	3	SCR	86.3	14.4	18.0	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 2-1.4	SINGLE DUCT	SEE PLANS	350 - 870	350	-	10	ELECTRIC	208 / 1	2.5	SCR	82.7	12.0	15.0	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 2-1.5	SINGLE DUCT	SEE PLANS	280 - 700	280	-	8	ELECTRIC	208 / 1	3	SCR	93.9	14.4	18.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-1.6	SINGLE DUCT	SEE PLANS	180 - 450	180	-	6	ELECTRIC	208 / 1	1.5	SCR	86.3	7.2	9.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-1.7	SINGLE DUCT	SEE PLANS	240 - 600	240	-	8	ELECTRIC	208 / 1	2	SCR	86.3	9.6	12.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-2.1	SINGLE DUCT	SEE PLANS	630 - 1575	630	-	12	ELECTRIC	480 / 3	6	SCR	90.1	7.2	9.0	42.5 x 24.5 x 15.5	93	-	TRANE	VCEF	1 THROUGH 13
VAV 2-2.2	SINGLE DUCT	SEE PLANS	160 - 400	160	-	6	ELECTRIC	208 / 1	1.5	SCR	89.6	7.2	9.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-2.3	SINGLE DUCT	SEE PLANS	325 - 650	325	-	8	ELECTRIC	480 / 3	3.5	SCR	94.0	4.2	5.3	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-2.4	SINGLE DUCT	SEE PLANS	250 - 500	250	-	8	ELECTRIC	208 / 1	2.5	SCR	91.6	12.0	15.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-2.5	SINGLE DUCT	SEE PLANS	240 - 600	240	-	8	ELECTRIC	208 / 1	2.5	SCR	92.9	12.0	15.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-2.6	SINGLE DUCT	SEE PLANS	225 - 450	225	-	6	ELECTRIC	208 / 1	2.5	SCR	95.1	12.0	15.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-2.7	SINGLE DUCT	SEE PLANS	160 - 400	160	-	6	ELECTRIC	208 / 1	1.5	SCR	89.6	7.2	9.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 2-2.8	SINGLE DUCT	SEE PLANS	230 - 575	230	-	8	ELECTRIC	208 / 1	2.5	SCR	94.3	12.0	15.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 3-1	SINGLE DUCT	SEE PLANS	300 - 700	300	-	8	ELECTRIC	208 / 1	2.5	SCR	86.3	12.0	15.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 3-2	SINGLE DUCT	SEE PLANS	450 - 900	450	-	12	ELECTRIC	480 / 3	4.5	SCR	91.6	5.4	6.8	42.5 x 24.5 x 15.5	93	-	TRANE	VCEF	1 THROUGH 13
VAV 3-3	SINGLE DUCT	SEE PLANS	400 - 800	400	-	10	ELECTRIC	480 / 3	4	SCR	91.6	4.8	6.0	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 3-4	SINGLE DUCT	SEE PLANS	165 - 400	165	-	6	ELECTRIC	208 / 1	2	SCR	98.5	9.6	12.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 3-5	SINGLE DUCT	SEE PLANS	460 - 1120	460	-	10	ELECTRIC	480 / 3	4.5	SCR	90.9	5.4	6.8	42.5 x 21.5 x 13.5	81	-	TRANE	VCEF	1 THROUGH 13
VAV 3-6	SINGLE DUCT	SEE PLANS	310 - 750	310	-	8	ELECTRIC	208 / 1	3	SCR	90.8	14.4	18.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 3-7	SINGLE DUCT	SEE PLANS	250 - 500	250	-	8	ELECTRIC	208 / 1	2.5	SCR	91.6	12.0	15.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 3-8	SINGLE DUCT	SEE PLANS	340 - 825	340	-	8	ELECTRIC	480 / 3	3.5	SCR	92.6	4.2	5.3	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13
VAV 3-9	SINGLE DUCT	SEE PLANS	545 - 1325	545	-	12	ELECTRIC	480 / 3	5.5	SCR	91.9	6.6	8.3	42.5 x 24.5 x 15.5	93	-	TRANE	VCEF	1 THROUGH 13
VAV 3-10	SINGLE DUCT	SEE PLANS	535 - 1300	535	-	12	ELECTRIC	480 / 3	5.5	SCR	92.6	6.6	8.3	42.5 x 24.5 x 15.5	93	-	TRANE	VCEF	1 THROUGH 13
VAV 3-11	SINGLE DUCT	SEE PLANS	175 - 425	175	-	6	ELECTRIC	208 / 1	2	SCR	96.1	9.6	12.0	42.5 x 18.5 x 11.5	67	-	TRANE	VCEF	1 THROUGH 13

COMMENTS:

1. ELECTRICAL DISCONNECT SWITCH
2. MANUFACTURER'S START-UP AND 1 YEAR MANUFACTURER WARRANTY
3. FACTORY INTEGRATED BACNET DDC CONTROLLER
4. DDC ROOM SENSOR WITH OVERRIDE
5. 120V-24V TRANSFORMER AND RELAY
6. PROVIDE WITH BACNET CONTROLLERS. VAV CONTROLLERS SHALL BE CAPABLE OF TWO-WAY COOMUNICATION WITH THE RTU CONTROLLERS AND CENTRAL CONTROLLER LOCATED IN XXXX (COORDINATE FINAL LOCATION WITH OWNER). ATC CONTRACTOR TO INTEGRATE INTO THE BAS.
7. INTEGRATED SYSTEM SHALL PROVIDE CONTROL SEQUENCES INCLUDING BUT NOT LIMITED TO: OPTIMIZED START/STOP, VENTILATION RESET, DEMAND CONTROL VENTILATION, SUPPLY AIR TEMPERATURE RESET, ENTHALPY ECONOMIZER, AND VARIABLE HEATING AIRFLOW.
8. MORNING WARM-UP CONTROLS
9. AIR PROVING SWITCH
10. SCR CONTROLLER
11. VIBRATION ISOLATOR HANGERS.
12. COORDINATE RIGHT-HAND / LEFT-HAND CONFIGURATION WITH FIELD CONDITIONS PRIOR TO SUBMITTAL PROCESS
13. TERMINAL DAMPER SHALL FAIL IN THE FULLY OPEN POSITION IN THE EVENT OF A LOSS OF POWER. FAIL OPEN SHALL BE SPRING LOADED.

HEAT PUMP SPLIT SYSTEM SCHEDULE

TAG	CONFIGURATION	AREAS SERVED	REFRIGERANT	AIRFLOW (CFM)	REFRIG. PIPING SIZE (GAS/LIQ) (IN.)	CONDENSATE PIPING SIZE (IN.)	INDOOR (AHU)		OUTDOOR (HP)			COOLING			HEATING (AIR SOURCE HP)			AUXILIARY HEAT (ELECTRIC RESISTANCE)			ELECTRICAL			BASIS OF DESIGN	MODEL	COMMENTS
							DIMENSIONS L x W x H (IN.)	WEIGHT (LBS)	DIMENSIONS L x W x H (IN.)	WEIGHT (LBS)	SOUND PRESS (DBA)	NOMINAL TONNAGE	TOTAL / MIN CAPACITY (MBH)	EER2 / SEER2	CAPACITY @ 47°F (MBH)	CAPACITY @ 17°F (MBH)	HSPF2	V / Ø	KW	FLA / MCA / MOCP	V / Ø	INDOOR UNIT FLA / MCA / MOCP	OUTDOOR UNIT FLA / MCA / MOCP			
AHU-G1 / HP-G1	HORIZONTAL CEILING CONCEALED DUCTED	DHS GROUND FLOOR	R-454B	1025-1,150	5/8 & 3/8	1	29 x 55 x 10	82	42 x 14 x 53	231	52	3	37 / 14.6	12.5 / 21.7	40	24.4	9.3	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 29 / 48	MITSUBISHI	INDOOR: PEAD-AA36NL OUTDOOR: PUZ-AK36NLHZ	1 THROUGH 19
AHU-G2 / HP-G2	HORIZONTAL CEILING CONCEALED DUCTED	DHS GROUND FLOOR	R-4545B	750	5/8 & 3/8	1	29 x 44 x 10	67	42 x 14 x 53	261	52	2.5	30 / 12.2	12.5 / 21.7	34	21.8	9.3	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 29 / 48	MITSUBISHI	INDOOR: PEAD-A30NL OUTDOOR: PUZ-AK30NLHZ	1 THROUGH 19
AHU-G3 / HP-G3	HORIZONTAL CEILING CONCEALED DUCTED	DHS GROUND FLOOR	R-454B	512-600	1/2 & 1/4	1-1/4	29 x 35 x 10	60	33 x 13 x 35	115	55	1.5	18 / 5.5	12.7 / 17.3	20.0	20.0	10.0	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 25 / 42	MITSUBISHI	INDOOR: PEAD-AA18NL OUTDOOR: SUZ-AA18NLHZ	1 THROUGH 19
AHU-G4 / HP-G4	HORIZONTAL CEILING CONCEALED DUCTED	DHS GROUND FLOOR	R-454B	512-600	1/2 & 1/4	1-1/4	29 x 35 x 10	60	33 x 13 x 35	115	55	1.5	18 / 5.5	12.7 / 17.3	20.0	20.0	10.0	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 25 / 42	MITSUBISHI	INDOOR: PEAD-AA18NL OUTDOOR: SUZ-AA18NLHZ	1 THROUGH 19
AHU-G5 / HP-G5	HORIZONTAL CEILING CONCEALED DUCTED	CONFERENCE D11	R-454B	512-600	1/2 & 1/4	1-1/4	29 x 35 x 10	60	33 x 13 x 35	115	55	1.5	18 / 5.5	12.7 / 17.3	20.0	20.0	10.0	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 25 / 42	MITSUBISHI	INDOOR: PEAD-AA18NL OUTDOOR: SUZ-AA18NLHZ	1 THROUGH 19
AHU-1.5 / HP-1.5	CASSETTE DUCTLESS	IT ROOM 148	R-454B	460-500	1/2 & 1/4	1-1/4	33 x 33 x 10	46	34 x 13 x 24	99	46	1.5	18.5 / 5.0	13.7 / 24.7	23.0	12.0	9.8	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 16 / 27	MITSUBISHI	INDOOR: PLA-A18NL OUTDOOR: PUZ-AK18NL	1-6, 9-19
AHU-E / HP-E	WALL MOUNTED DUCTLESS	SWITCHGEAR ROOM 229	R-454B	705-810	5/8 & 3/8	1-1/4	46 x 12 x 14	46	41 x 13 x 52	224	52	3	36 / 13.2	12.0 / 20.3	40	23.2	9.4	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 34 / 56	MITSUBISHI	INDOOR: PKA-AK36NL OUTDOOR: PUZ-AK36NL	1-6, 9-15,17,19
AHU-F / HP-F	WALL MOUNTED DUCTLESS	IT ROOM C112a	R-454B	340-410	1/2 & 1/4	1-1/4	33 x 10 x 11	20	33 x 12 x 21	50	51	1.5	18 / 5.8	9.5 / 18.0	20.8	15.0	8.5	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 16 / 20	MITSUBISHI	INDOOR: MSZ-WX18NL OUTDOOR: MUZ-WX18NL	1 THROUGH 19
AHU-T / HP-T	WALL MOUNTED DUCTLESS	THEATER CL 105B	R-454B	210-300	1/2 & 1/4	1-1/4	33 x 10 x 11	20	33 x 12 x 21	50	51	1	12 / 3.8	9.0 / 18.0	14.5	9.0	8.5	-	-	- / - / -	208 / 1	POWERED FROM OUTDOOR	- / 10 / 17	MITSUBISHI	INDOOR: MSZ-WX12NL OUTDOOR: MUZ-WX12NL	1 THROUGH 19

COMMENTS:

1. 1 YEAR MANUFACTURER'S WARRANTY AND START-UP.
2. 5 YEAR COMPRESSOR WARRANTY.
3. INDOOR AND OUTDOOR UNITS PROVIDED WITH INTEGRAL DISCONNECTING MEANS.
4. SEPARATE OUTDOOR AND INDOOR SINGLE POINT ELECTRICAL CONNECTION.
5. PROVIDE WITH CONDENSATE PUMP (BY MC).
6. VIBRATION ISOLATION. KINETICS FHS OR APPROVED EQUAL. MAX 3/4" DEFLECTION.
7. ECM DIRECT DRIVE SUPPLY FAN.
8. FLEXIBLE DUCT CONNECTORS.
9. RETURN AIR FILTER AND FILTER RACK (MERV 8).
10. SCROLL COMPRESSOR.
11. REFRIGERANT SIZES TO BE CONFIRMED BY EQUIPMENT MANUFACTURER.
12. LONG LINESET CHECK VALVES FOR UNITS LOCATED 3 OR MORE STORIES AWAY FROM THE OUTDOOR UNIT.
13. WALL MOUNTED PROGRAMMABLE THERMOSTAT.
14. CONDENSATE TRAP AND FRESH AIR INLET.
15. CORROSION RESISTANT INTERNAL DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH. INTERLOCK SENSOR WITH AHU.
16. LOW AMBIENT HEAT AT -5F MUST MEET SCHEDULE REQUIREMENT WITH NO ELECTRIC RESISTANCE HEAT.
17. EC TO PROVIDE WIRING BETWEEN INDOOR AND OUTDOOR UNITS. MC/ATC TO PROVIDE CONTROL WIRING.
18. ENERGY STAR RATED
19. PROVIDE WITH BACNET CONTROLLER AND INTEGRATE INTO THE BAS

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NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

M3.2

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FAN POWERED VAV BOX SCHEDULE

TAG	TYPE	AREAS SERVED	MIN-MAX COOLING (PRIMARY) AIRFLOW (CFM) (NOTE 16)	HEATING (PRIMARY) AIRFLOW (CFM) (NOTE 16)	INLET STATIC PRESSURE (IN. W.C.)	INLET DUCT SIZE (IN.)	UNIT FAN AIRFLOW (CFM)	HEATING @ 55F PRIMARY AIR					ELECTRICAL (480V /3Ø)			DIMENSIONS L x W x H (IN.)	WEIGHT (lbs)	SOUND RATING (DBA)	BASIS OF DESIGN	MODEL	FAN SIZE	COMMENTS
								HEATING TYPE	V / PH	CAPACITY (KW)	NO. OF ELEMENTS / STEPS	LAT (°F)	HEATING FLA	FAN FLA	UNIT MCA						
FTU 1-1.1	SERIES	SEE PLANS	300 - 750	300	-	8	750	ELECTRIC	480 / 3	6.0	SCR	91.3	7.2	2.4	11.6	40 x 24 x 17.5	85	-	TRANE	VSCEF	03SQ	1 THROUGH 16
FTU 1-1.2	SERIES	SEE PLANS	720 - 1800	720	-	12	1800	ELECTRIC	480 / 3	14.0	SCR	90.6	16.9	5.4	26.7	40 x 30 x 21.5	117	-	TRANE	VSCEF	06SQ	1 THROUGH 16
FTU 1-1.3	SERIES	SEE PLANS	480 - 1200	480	-	10	1200	ELECTRIC	480 / 3	10.0	SCR	92.3	12.0	3.5	18.7	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 1-1.4	SERIES	SEE PLANS	710 - 1775	710	-	12	1775	ELECTRIC	480 / 3	14.0	SCR	90.9	16.9	5.4	26.7	40 x 30 x 21.5	117	-	TRANE	VSCEF	06SQ	1 THROUGH 16
FTU 1-2.1	SERIES	SEE PLANS	200 - 300	200	-	6	300	ELECTRIC	480 / 3	3.0	SCR	91.4	3.6	2.4	7.2	34 x 22 x 15.5	78	-	TRANE	VSCEF	02SQ	1 THROUGH 16
FTU 1-2.2	SERIES	SEE PLANS	575 - 1400	575	-	12	1400	ELECTRIC	480 / 3	11.0	SCR	90.7	13.2	3.5	20.1	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 1-2.3	SERIES	SEE PLANS	270 - 650	270	-	8	650	ELECTRIC	480 / 3	5.0	SCR	90.2	6.0	3.5	11.4	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 1-2.4	SERIES	SEE PLANS	205 - 500	205	-	8	500	ELECTRIC	480 / 3	4.0	SCR	90.2	4.8	3.5	10.0	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 1-2.5	SERIES	SEE PLANS	660 - 1600	660	-	12	1600	ELECTRIC	480 / 3	13.0	SCR	91.6	15.7	5.4	25.3	40 x 30 x 17.5	100	-	TRANE	VSCEF	05SQ	1 THROUGH 16
FTU 1-2.6	SERIES	SEE PLANS	430 - 1075	430	-	10	1075	ELECTRIC	480 / 3	9.0	SCR	91.6	10.8	3.5	17.2	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 2-1.1	SERIES	SEE PLANS	540 - 1350	540	-	12	1350	ELECTRIC	480 / 3	11.0	SCR	91.7	13.2	3.5	20.1	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 2-1.2	SERIES	SEE PLANS	280 - 700	280	-	8	700	ELECTRIC	480 / 3	3.5	SCR	81.8	4.2	2.4	7.9	40 x 24 x 17.5	85	-	TRANE	VSCEF	03SQ	1 THROUGH 16
FTU 2-1.3	SERIES	SEE PLANS	400 - 1000	400	-	10	1000	ELECTRIC	480 / 3	6.0	SCR	85.0	7.2	3.5	12.9	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 2-1.4	SERIES	SEE PLANS	440 - 1100	440	-	12	1100	ELECTRIC	480 / 3	8.5	SCR	90.4	10.2	3.5	16.5	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 2-1.5	SERIES	SEE PLANS	240 - 600	240	-	8	600	ELECTRIC	480 / 3	4.5	SCR	89.7	5.4	2.4	9.4	40 x 24 x 17.5	85	-	TRANE	VSCEF	03SQ	1 THROUGH 16
FTU 2-2.1	SERIES	SEE PLANS	740 - 1800	740	-	12	1800	ELECTRIC	480 / 3	15.0	SCR	92.2	18.1	5.4	28.2	40 x 30 x 21.5	117	-	TRANE	VSCEF	06SQ	1 THROUGH 16
FTU 2-2.2	SERIES	SEE PLANS	575 - 1400	575	-	12	1400	ELECTRIC	480 / 3	11.0	SCR	90.7	13.2	3.5	20.1	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 2-2.3	SERIES	SEE PLANS	410 - 1000	410	-	10	1000	ELECTRIC	480 / 3	8.0	SCR	91.2	9.6	3.5	15.8	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 2-2.4	SERIES	SEE PLANS	220 - 525	220	-	8	525	ELECTRIC	480 / 3	14.4	SCR	96.5	17.3	2.4	23.7	40 x 24 x 17.5	85	-	TRANE	VSCEF	03SQ	1 THROUGH 16
FTU 3-1	SERIES	SEE PLANS	450 - 1125	450	-	12	1125	ELECTRIC	480 / 3	9.0	SCR	91.3	10.8	3.5	17.2	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 3-2	SERIES	SEE PLANS	220 - 540	220	-	8	540	ELECTRIC	480 / 3	4.5	SCR	92.3	5.4	2.4	9.4	34 x 22 x 15.5	78	-	TRANE	VSCEF	02SQ	1 THROUGH 16
FTU 3-3	SERIES	SEE PLANS	400 - 1000	400	-	10	1000	ELECTRIC	480 / 3	8.0	SCR	91.3	9.6	3.5	15.8	40 x 24 x 17.5	86	-	TRANE	VSCEF	04SQ	1 THROUGH 16
FTU 3-4	SERIES	SEE PLANS	635 - 1585	635	-	12	1585	ELECTRIC	480 / 3	12.5	SCR	90.9	15.1	5.4	24.5	40 x 30 x 17.5	100	-	TRANE	VSCEF	05SQ	1 THROUGH 16

COMMENTS:

1 ELECTRICAL DISCONNECTING MEANS BY THE E.C.
2 MANUFACTURER'S START-UP AND 1YEAR MANUFACTURER WARRANTY.
3 FACTORY INTEGRATED BACNET DDC CONTROLLER.
4 DDC ROOM SENSOR WITH OVERRIDE.
5 120v -24V TRANSFORMER AND RELAY
6 VAV CONTROLLERS SHALL BE CAPPABLE OF TWO- WAY COOMUNICATION WITH THE RTU CONTROLLERS AND CENTRAL CONTROLLER.COORDINATE CENRTAL CONTROLLER LOCATION WITH OWNER.
7 INTEGRATED SYSTEM SHALL PROVIDE CONTROL SEQUENCES INCLUDING BUT NOT LIMITED TO: OPTIMIZED START/STOP, FAN PRESSURE OPTIMIZATION,VENTILATION. RESET, DEMAND CONTROL VENTILATION , SUPPLY AIR TEMPERATURE RESET, ENTHALPHY ECONOMIZER, AND VARIABLE HEATING AIRFLOW.
8 MORNING WARM-UP CONTROLS
9 AIR PROVING SWITCH .
10 SCR CONTROLLER
11 ECM FAN MOTOR
12 MERV 8 FILTER & 1-INCH FILTER RACK
13 VIBRATION ISOLATOR HANGERS.
14 COORDINATE RIGHT- HAND/ LEFT- HAND CONFIGURATION WITH FIELD CONDITIONS PRIOR TO SUBMITTAL PROCESS.
15 TERMINAL DAMPER SHALL FAIL IN THE FULLY OPEN POSITION IN THE EVENT OF A LOSS OF POWER. FAIL OPEN SHALL BE SPRING LOADED.
16 MINIMUM AND MAXIMUM AIRFLOWS REFER TO THE PRIMARY AIR DAMPER. UNIT FAN AIRFLOW SHALL BE CONSTANT IN BOTH COOLING AND HEATING MODES. REFER TO SEQUENCE OF OPERATIONS.

ENERGY RECOVERY VENTILATOR (ERV)

TAG	SERVES	SUPPLY FAN AIRFLOW (CFM) / ESP (IN. W.C.)	EXHAUST FAN AIRFLOW (CFM) / ESP (IN. W.C.)	DUCT CONNECTIONS (IN.)	ENERGY RECOVERY		NOISE LEVEL EXH / SUPPLY (DBA)	ELECTRICAL		DIMENSIONS L x W x H (IN.)	WEIGHT (LBS)	BASIS OF DESIGN	MODEL	COMMENTS
					OUTSIDE / EXH AIR (CFM)	EFFICIENCY (%)		V / Ø	UNIT FLA / MCA / MOCP					
ERV-1	GROUND FL OFFICE SPACE	200 / 0.6	200 / 0.6	8 / 8	200 / 200		- / -	120 / 1	- / 6.1 / 15	39 / 36 / 12.25	94	RENEWAIRE	HE05IN	1 THROUGH 9
ERV-2	GROUND FL OFFICE SPACE	390 / 0.6	375 / 0.6	10"x10" / 10"x10"	390 / 375		- / -	208 / 1	- / 6.2 / 15	44 / 38 / 17.5	148	RENEWAIRE	HE07IN	1 THROUGH 9

COMMENTS:

1. TOTAL ENERGY RECOVERY - ENTHALPY EXCHANGER. NO DRAIN REQUIRED.
2. ECM MOTORS.
3. CONTRACTOR TO FIELD COORDINATE SYSTEM ORIENTATION AND CONFIGURATION FOR EACH SYSTEM.
4. MERV 13 FILTERS FOR OUTSIDE AIR AND MERV 8 FILTERS FOR EXAHUST AIR.
5. APPROXIMATE SETTINGS 80% - UNIT MUST BE AIR BALANCED IN THE FIELD.
6. HARDWIRED CONNECTION, COORDINATE WITH ELECTRICAL CONTRACTOR.
7. ENERGY STAR CERTIFICATION.
8. DISCONNECT SWITCH.
9. GRAVITY BACKDRAFT DAMPER.

ELECTRIC TRENCH HEATER SCHEDULE

TAG	AREA SERVED	CONFIGURATION	WATTS	DIMENSIONS (L x W x H)	ELECTRICAL			CONTROL	BASIS OF DESIGN	MODEL	COMMENTS
					V / Ø	MCA	MCOP				
TH-A	MULTIPLE LOCATIONS. SEE DRAWINGS	TRENCH.	500	39" x 12" x 5"	120 / 1			INTEGRAL	JAGA	MINI CANAL	1 THROUGH 6
TH-B1	MULTIPLE LOCATIONS. SEE DRAWINGS	TRENCH.	668	51" x 12" x 5"	120 / 1			INTEGRAL	JAGA	MINI CANAL	1 THROUGH 6
TH-B2	MULTIPLE LOCATIONS. SEE DRAWINGS	TRENCH.	1000	51" x 12" x 5"	208 / 1			INTEGRAL	JAGA	MINI CANAL	1 THROUGH 6
TH-C1	MULTIPLE LOCATIONS. SEE DRAWINGS	TRENCH.	835	63" x 12" x 5"	120 / 1			INTEGRAL	JAGA	MINI CANAL	1 THROUGH 6
TH-C2	MULTIPLE LOCATIONS. SEE DRAWINGS	TRENCH.	1250	63" x 12" x 5"	208 / 1			INTEGRAL	JAGA	MINI CANAL	1 THROUGH 6

GENERAL COMMENTS:

1. HEAVY DUTY PENCIL PROOF FLOOR MOUNTED GRILLE. CUSTOM FINISH AND COLOR TO BE SELECTED BY THE ARCHITECT AND OWNER.
2. UNIT PROVIDED WITH INTEGRAL DISCONNECTING MEANS.
3. THERMAL CUTOUT.
4. LINE VOLTAGE THERMOSTAT SHALL BE ALLOWABLE BUT ALL WIRING SHALL STILL BE INSTALLED (OR SUBBED) BY THE M.C. CONTROL WIRE SHALL BE INSTALLED UNDER THE SLAB, ALONGSIDE WITH THE ELECTRICAL CONDUIT. ONE WALL MOUNTED THERMOSTAT SHALL CONTROL MULTIPLE HEATERS. REFER TO PLANS FOR GROUPING. THERMOSTATS SHALL BE INTEGRATED INTO THE BAS.
5. INTEGRAL THERMOSTAT SHALL BE TAMPERPROOF.
6. 60°F SETPOINT (ADJUSTABLE)

ELECTRIC BASEBOARD HEATER SCHEDULE

TAG	AREA SERVED	CONFIGURATION	WATTS	DIMENSIONS (L x W x H)	ELECTRICAL			CONTROL	BASIS OF DESIGN	MODEL	COMMENTS
					V / Ø	MCA	MCOP				
BB-2F	MULTIPLE LOCATIONS. SEE DRAWINGS	PEDESTAL MOUNT	400	2' x 3" x 5"	120 / 1			INTEGRAL	VULCAN	SB-2200	1 THROUGH 12
BB-3F	MULTIPLE LOCATIONS. SEE DRAWINGS	PEDESTAL MOUNT	450	3' x 3" x 5"	120 / 1			INTEGRAL	VULCAN	SB-3150	1 THROUGH 12
BB-4F	MULTIPLE LOCATIONS. SEE DRAWINGS	PEDESTAL MOUNT	1,000	4' x 3" x 5"	120 / 1			INTEGRAL	VULCAN	SB-4250	1 THROUGH 12
BB-6F	MULTIPLE LOCATIONS. SEE DRAWINGS	PEDESTAL MOUNT	1,200	6' x 3" x 5"	120 / 1			INTEGRAL	VULCAN	SB-6200	1 THROUGH 12
BB-10F	MULTIPLE LOCATIONS. SEE DRAWINGS	PEDESTAL MOUNT	1,500	10' x 3" x 5"	120 / 1			INTEGRAL	VULCAN	SB-10150	1 THROUGH 12

GENERAL COMMENTS:

1. COLOR TO BE SELECTED BY THE ARCHITECT AND OWNER FROM MANUFACTURER'S FULL RANGE.
2. INCLUDE ALL END CAPS, BLANK SECTIONS, CORNER PIECES, BACK PLATES, ETC FOR A CONTINUOUS INSTALLATION.
3. UNIT PROVIDED WITH INTEGRAL DISCONNECTING MEANS.
4. THERMAL CUTOUT.
5. PEDESTAL MOUNT.
6. LINE VOLTAGE THERMOSTAT SHALL BE ALLOWABLE BUT ALL WIRING SHALL STILL BE INSTALLED (OR SUBBED) BY THE M.C.
7. INTEGRAL THERMOSTAT SHALL BE TAMPERPROOF.
8. HEAVY DUTY PENCIL PROOF GRILLE.
9. BOTTOM INTAKE, TOP DISCHARGE.
10. 60°F SETPOINT (ADJUSTABLE)
11. PROVIDE WITH DUPLEX RECEPTACLE. MOUNTED ON THE FRONT COVER. RATED 15 AMP, 120 VOLT. REFER TO ELECTRICAL PLANS FOR QUANTITIES AND LOCATIONS.
12. ELECTRICAL CIRCUIT TO ALL CONTACTORS SHALL BE ABLE TO BE SHUT-OFF VIA THE BAS.

LOUVER SCHEDULE

TAG	USE	WIDTH (IN.)	HEIGHT (IN.)	DEPTH (IN.)	AIRFLOW (CFM)	FREE AREA (SQ. FT.)	AIR SPEED (FPM)	PRESSURE DROP (IN. WC.)	WP. VEL.* (FPM)	DAMPER	FINISH	SCREEN	MATERIAL	MANUFACTURER	MODEL NO.	COMMENTS
L-G1	INTAKE	17	12	4	390	0.4	1,010	0.16	1,025	YES, M.O.D.	BY ARCH.	BIRDSCREEN	ALUMINUM	POTTORF	EDD-445	GROUND LEVEL OFFICE VENTILATION INTAKE LOUVER.
L-G2	RELIEF	15	12	4	390	0.22	1,172	0.22	1,025	YES, M.O.D.	BY ARCH.	BIRDSCREEN	ALUMINUM	POTTORF	EDD-445	GROUND LEVEL OFFICE VENTILATION RELIEF LOUVER.
L-G3	INTAKE	12	11	4	200	0.2	1,020	0.14	1,025	YES, M.O.D.	BY ARCH.	BIRDSCREEN	ALUMINUM	POTTORF	EDD-445	GROUND LEVEL OFFICE VENTILATION INTAKE LOUVER.
L-G3	RELIEF	11	11	4	200	0.2	1,045	0.18	1,025	YES, M.O.D.	BY ARCH.	BIRDSCREEN	ALUMINUM	POTTORF	EDD-445	GROUND LEVEL OFFICE VENTILATION RELIEF LOUVER.

COMMENTS:

1. PROVIDE INSULATED DRAINABLE PLENUM. REFER TO DETAIL.
2. UNLESS OTHERWISE INDICATED, PROVIDE DUCT CONNECTION FROM PLENUM AND 45° TRANSITION TO THE FULL SIZE OF DUCT ON DRAWING.
3. PROVIDE LOUVER FRAMES TO SUIT WALL CONSTRUCTION.
4. COORDINATE FINAL LOUVER SELECTIONS AND COLORS WITH ARCHITECT.

* WP. VEL. = WATER PENETRATION VELOCITY PER MANUFACTURERS' LITERATURE

ELECTRIC UNIT HEATER SCHEDULE

TAG	AREA SERVED	CONFIGURATION	KW	ELECTRICAL			CONTROL	DIMENSIONS (L x W x H)	WEIGHT (LBS)	MASIS OF DESIGN	MODEL	COMMENTS
				V / Ø	MCA	MOCP						
UH-A	SEE DRAWINGS	FORCED CEILING HEATER	3.0	208 / 1	14.5	15	INTEGRAL THERMOSTAT	16 x 5 x 20	27	QMARK	MUH-03-81	1-6, 8-10
UH-B	SEE DRAWINGS	FORCED CEILING HEATER	5.0	208 / 1	24	30	INTEGRAL THERMOSTAT	16 x 5 x 20	27	QMARK	MUH-05-81	1-6, 8-10
CUH-A	SEE DRAWINGS	CABINET UNIT HEATER	3.0	208 / 1	-	15	INTEGRAL THERMOSTAT	35 x 9.75 x 26.5	120	QMARK	CU900 SERIES	1 THROUGH 10
CUH-B	SEE DRAWINGS	CABINET UNIT HEATER	2.0	208 / 1	-	15	INTEGRAL THERMOSTAT	35 x 9.75 x 26.5	120	QMARK	CU900 SERIES	1 THROUGH 10
CUH-1	VESTIBULE 100	CEILING MOUNTED FAN-FORCED HEATER	2.0	208 / 1	9.8	15	INTEGRAL THERMOSTAT	20 x 16 x 4	23	QMARK	EFF4008	1 THROUGH 10

COMMENTS:

1. STANDARD FINISH AND COLOR.
2. UNIT PROVIDED WITH INTEGRAL DISCONNECTING MEANS.
3. FAN DELAY SWITCH.
4. AIR PROVING SWITCH.
5. THERMAL CUTOUT.
6. INTEGRAL THERMOSTAT SHALL BE TAMPERPROOF.
7. FRONT INTAKE, FRONT DISCHARGE.
8. HEAVY DUTY GRILLE.
9. 50°F SETPOINT (ADJUSTABLE).
10. MOUNTING BRACKETS AND HARDWARE.

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SCHEDULES- MECHANICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

M3.3

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ABBREVIATIONS

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AGF	AIR GAP FITTING
AHU	AIR HANDLING UNIT
AMP	AMPERE
APPROX	APPROXIMATE
AV	ACID VENT
AVG	AVERAGE
B.O.P.	BOTTOM OF PIPE
B.F.F.	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BLV	BALANCING VALVE
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
C TO C	CENTER TO CENTER
C/D	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CISP	CAST IRON SOIL PIPE
CLG	CEILING
CO	CLEANOUT
COL	COLUMN
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUED
CONTR	CONTRACTOR
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	CHECK VALVE
CW	COLD WATER (DOMESTIC)
DB	DECIBEL
DCBP	DOUBLE CHECK BACKFLOW PREVENTER
DD	DECK DRAIN
DEG	DEGREE
DFU	DRAINAGE FIXTURE UNIT
DI	DEIONIZED WATER
DIA	DIAMETER
DIS	DISTILLED WATER
DISCH	DISCHARGE
DN	DOWN
DP	DEEP
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DVC	DRY VACUUM CLEANING
DWG	DRAWING
DWR	DOMESTIC WATER RISER
(E)	EXISTING
(ED)	EXISTING TO BE DEMOLISHED
(ER)	EXISTING TO BE RELOCATED
EFF	EFFICIENCY
EFL	EFFLUENT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
EW	EMERGENCY EYEWASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERIOR
°F	DEGREE FAHRENHEIT
F	FIRE PROTECTION WATER SUPPLY
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FIN	FINISH
FF	FINISHED FLOOR
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FEET
FU	FIXTURE UNIT
FV	FLUSH VALVE
G	NATURAL GAS
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GROUND
GWH	GAS WATER HEATER
HB	HOSE BIBB
HC	HANDICAP
HD	HEAD
HP	HORSEPOWER
HPCR	HIGH PRESSURE CONDENSATE RETURN
HPSS	HIGH PRESSURE STEAM SUPPLY
HPWH	HEAT PUMP WATER HEATER
HR	HOUR
HS	HOSE STATION
HT	HEIGHT
HTR	HEATER
HVAC	HEATING VENTILATION AIR CONDITIONING
HZ	FREQUENCY-ELECTRICAL
ID	INSIDE DIAMETER
ID	INDIRECT DRAIN
IE	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
KWH	KILOWATT HOUR
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FEET
LL	LOW LEVEL
LP	LIQUID PROPANE
LPCR	LOW PRESSURE CONDENSATE RETURN
LPCS	LOW PRESSURE CONDENSATE SUPPLY
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MPCR	MEDIUM PRESSURE CONDENSATE RETURN
MPSS	MEDIUM PRESSURE STEAM SUPPLY
(N)	NEW
NA	NOT APPLICABLE
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
N.O.	NUMBER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OED	OPEN END DUCT
PCR	PUMPED CONDENSATE RETURN
PD	PUMPED DRAIN
PG	PRESSURE GAUGE
PH	PHASE-ELECTRICAL
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
PEX	CROSS LINKED POLYETHYLENE
QT	QUART
(R)	REMOVE EXISTING
(RE)	RELOCATE EXISTING
RD	ROOF DRAIN
REQ	REQUIRED
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RR	RETURN AIR REGISTER
RWC	RAINWATER CONDUCTOR
RPZ	REDUCED PRESSURE ZONE BFP
SA	SHOCK ABSORBER
SAN	SANITARY WASTE
SCH	SCHEDULE
SF	SQUARE FEET
SH	SHOWER
SP	STANDPIPE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STR	STRAINER
SUCT	SUCTION
SV	SANITARY VENT
SWV	SANITARY WASTE VENT
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TEMP	TEMPERATURE
THERM	THERMOMETER
T.O.P	TOP OF PIPE
TP	TRAP PRIMER
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UTIL	UTILITY
VAC	VACUUM
VB	VACUUM BREAKER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
VPC	VIA PHOTOCELL
VTC	VIA TIME CLOCK
VTR	VENT THROUGH ROOF
W/	WITH
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WP	WEATHERPROOF
W/O	WITHOUT
WSFU	WATER SUPPLY FIXTURE UNITS

PLUMBING GENERAL NOTES

1. ALL WORK TO BE IN CONFORMANCE WITH THE 2021 INTERNATIONAL PLUMBING CODE OR LOCAL CODE HAVING JURISDICTION. NOT ALL CODE REQUIREMENTS HAVE BEEN DESCRIBED IN THIS SPECIFICATION OR INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE CODES AND INSTALL THE WORK IN ACCORDANCE WITH CODES.
2. OBTAIN AND PAY FOR BUILDING PERMITS, INSPECTIONS, CONNECTION CHARGES, AND FEES.
3. THE CONTRACTOR IS TO SURVEY AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID SUBMISSION AND BECOME AWARE OF ALL CONDITIONS WHICH MAY IMPACT THE REQUIRED WORK. CONTRACTOR IS TO INCLUDE ALL ASSOCIATED COSTS (MATERIALS/ LABOR) DETERMINED TO BE REQUIRED DURING SITE INSPECTIONS. CONTRACTOR'S BID SUBMISSION IS TO BE CONSIDERED PROOF THAT THIS REQUIREMENT HAS BEEN MET.
4. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE TAKEN AS A WHOLE. IF A CONFLICT OR CONTRADICTION EXISTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT WILL ALL APPLY. THE ARCHITECT'S AND ENGINEER'S INTERPRETATION OF THE DOCUMENTS ARE TO BE BINDING UPON THE CONTRACTOR.
5. ALL WORK IS TO BE COORDINATED WITH, AND APPROVED BY THE OWNER PRIOR TO ANY SHUT-DOWNS. ALL REQUESTS ARE TO BE SUBMITTED, IN WRITING, TO THE OWNER 24, TO 48 HOURS PRIOR TO REQUESTED DELETIONS.
6. COORDINATE LOCATIONS AND ROUGH-IN REQUIREMENTS WITH ALL TRADES PRIOR TO INSTALLATION.
7. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO PURCHASING EQUIPMENT. VERIFY ALL VOLTAGE AND AMPERE REQUIREMENTS FOR FEEDERS, AND MOOP DEVICES.
8. ALL EXTERIOR WALL/ ROOF PENETRATIONS ARE TO BE SEALED, AIR, AND WATER-TIGHT. ALL PIPING PASSING THROUGH WALL, OR FLOOR PENETRATIONS IS TO HAVE SLEEVES. ALL WALL, OR FLOOR-RATED PENETRATIONS ARE TO BE SEALED WITH FIRE-RATED SEALANT FORMED IN PLACE (BY 3M OR HILTI).
9. VENTS THROUGH ROOF SHALL BE FLASHED WITH "SURE SEAL" PRE-MOLDED OR SIMILAR TYPE BOOT AS RECOMMENDED BY THE ROOFING CONTRACTOR.
10. PROVIDE ALL ACCESS DOORS FOR ALL VALVES, DAMPERS, DEVICES, CONTROLLERS, ETC. WHICH MAY REQUIRE SERVICE. ALL ACCESS PANELS ARE BE 16 GAUGE STEEL FRAME, 20 GAUGE HINGED DOOR, LOCKABLE, AND FIRE-RATED (WHEN INSTALLED IN RATED WALLS, FLOORS, "B" LABEL, 1-1/2 HOURS). FINISH AS SELECTED BY THE ARCHITECT.
11. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT TO BE REVIEWED BY THE ENGINEER PRIOR TO ORDERING. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR, AND PHYSICAL DIMENSIONS PRIOR TO SHOP DRAWING SUBMISSION.
12. ALL WORK TO BE CONCEALED UNLESS OTHERWISE INDICATED.
13. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED INPUT OF THE PLUMBING SYSTEM TO THE MECHANICAL CONTRACTOR FOR THE COORDINATION DRAWINGS.
14. ALL FINISHES RELATED TO PLUMBING EQUIPMENT, TERMINAL EQUIPMENT, AIR DEVICES, PERIMETER HEATERS, LOUVERS, ACCESS PANELS, EXPOSED WIREMOLD/RACEWAYS, ETC. SHALL BE COORDINATED AND SELECTED BY THE ARCHITECT/OWNER/ENGINEER PRIOR TO SHOP DRAWING SUBMISSION, ORDERING, AND INSTALLATION.
15. FINAL LOCATIONS OF ALL ACCESS PANELS, ETC. IN FINISHED SPACES SHALL BE COORDINATED AND APPROVED BY THE ARCHITECT/OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
16. NO PVC PIPING IS PERMITTED IN RETURN AIR PLENUMS.
17. ALL THREE PHASE STARTER EQUIPMENT IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR AND IS TO BE MAGNETIC, ACROSS-THE-LINE WITH AUXILIARY CONTACTS. ALL SINGLE PHASE STARTER EQUIPMENT IS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
18. ALL TRIM, TRAPS, ESCUTCHEON PLATES, SEAT HINGES AND ANY MISCELLANEOUS PARTS OF FIXTURES SHALL BE CHROME PLATED BRASS.
19. THE CONTRACTOR IS TO COORDINATE HIS WORK, AND THE WORK OF HIS SUB-CONTRACTORS TO ENSURE THAT ALL OF THE WORK IS COMPLETE AND OPERATIONAL. THE CONTRACTOR IS TO PROVIDE COMPLETE COORDINATION DRAWINGS, INCLUDING ALL TRADES (MECHANICAL, ELECTRICAL, AND FIRE PROTECTION). THE CONTRACTOR IS TO COORDINATE ALL CONNECTIONS TO SITE CIVIL WORK PRIOR TO STARTING WORK.
20. THE CONTRACTOR IS TO PROVIDE BALANCING VALVES ON ALL BRANCHES OF THE DOMESTIC HOT WATER RETURN SYSTEM, BALANCE THE SYSTEM, AND PROVIDE BALANCING REPORT TO THE OWNER/ ENGINEER FOR RECORD.
21. THE CONTRACTOR IS TO PROVIDE MANUFACTURER'S START-UP OF ALL EQUIPMENT, AND SYSTEMS.
22. PROPERLY INSTRUCT OWNER'S PERSONNEL IN THE OPERATION AND MAINTENANCE OF ALL SYSTEMS AND EQUIPMENT. PROVIDE THREE INSTRUCTION AND MAINTENANCE MANUALS. SUBMIT MANUALS FOR REVIEW PRIOR TO OPERATING INSTRUCTION.
23. COORDINATE LOCATIONS AND ROUGH-IN REQUIREMENTS WITH ALL TRADES PRIOR TO INSTALLATION.
24. IF THE CONTRACTOR ELECTS TO SUBMIT ALTERNATE EQUIPMENT, MANUFACTURERS, SYSTEMS, METHODS, OR MATERIALS NOT SPECIALLY IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK WITH OTHER TRADES AND PAY FOR ANY ADDITIONAL COSTS ASSOCIATED WITH THE SUBSTITUTION OR CHANGE.
25. PROVIDE ONE SET OF ELECTRONIC AS-BUILT DRAWINGS AT COMPLETION OF WORK. SUBMIT TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.

PROJECT DEDUCT/ADD ALTERNATES

ADD ALT #1 - LOCATION OF WATER SERVICE BASED ON METER PIT LOCATION, REFER TO GROUND FLOOR PLUMBING DRAWINGS P1.0A FOR ADDITIONAL ADD ALT INFORMATION. METER PIT, REFER TO PLUMBING DRAWING.

ADD ALT #2 - VAPOR MIST WATER SUPPLY TO FIREPLACE, 2ND FL PLAN EAST OF COLUMN A-5

DEDUCT ALT #1 - FIRE PUMP - REFER TO FP1.0a FOR ADDITIONAL ADD ALTERNATE INFORMATION.

CONTRACTOR NOTES

THIS IS A **MULTIPLE PRIME CONTRACT** PROJECT.
CONTRACTOR SHALL REFER TO THE "PRIME CONTRACTOR CHECKLIST" SECTION 011201 OF THE SPECIFICATIONS FOR A DETAILED DIVISIONS OF RESPONSABILITIES.

DRAWING LIST

Drawing List- PH 2- Plumbing

NUMBER	NAME	DEMO PACKAGE PH 1 11/04/24	SCHEMATIC DESIGN 10/25/24	ADDENDUM 2 02/05/25	DESIGN DEVELOPMENT 02/21/25	50% CD PROGRESS SET 06/05/2025	75% CD SET 08/22/25	BID & PERMIT SET 10/03/25	Current Revision	Current Revision Date	Current Revisions
P0.1	COVER SHEET- PLUMBING	•	•		•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
PD2.1a	FIRST FLOOR DEMOLITION PLAN AREA A- PH 2- PLUMBING		•		•	•	•	•			
PD2.1b	FIRST FLOOR DEMOLITION PLAN AREA B- PH 2- PLUMBING		•		•	•	•	•			
PD2.2a	SECOND FLOOR DEMOLITION PLAN AREA A- PH 2- PLUMBING		•		•	•	•	•			
PD2.2b	SECOND FLOOR DEMOLITION PLAN AREA B- PH 2- PLUMBING		•		•	•	•	•			
PD2.3a	ROOF DEMOLITION PLAN AREA A- PH 2- PLUMBING					•	•	•			
PD2.3b	ROOF DEMOLITION PLAN AREA B- PH 2- PLUMBING					•	•	•			
P1.0a	GROUND FLOOR NEW CONSTRUCTION PLAN- PLUMBING		•		•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
P1.0b	GROUND FLOOR NEW CONSTRUCTION PLAN- UNDERGROUND PLUMBING		•		•	•		•			
P1.1a	FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- SANITARY & STORM		•		•	•	•	•			
P1.1b	FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- SANITARY & STORM		•		•	•	•	•			
P1.1c	FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- UNDERGROUND PLUMBING		•		•	•		•			
P1.1d	FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- UNDERGROUND PLUMBING		•		•	•		•			
P1.2a	SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- SANITARY & STORM		•		•	•	•	•			
P1.2b	SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- SANITARY & STORM		•		•	•	•	•			
P1.3a	FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- DOMESTIC WATER & GAS		•		•	•	•	•			
P1.3b	FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- DOMESTIC WATER & GAS		•		•	•	•	•			
P1.4a	SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- DOMESTIC WATER & GAS		•		•	•	•	•			
P1.4b	SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- DOMESTIC WATER & GAS		•		•	•	•	•			
P1.5	ROOF PLAN NEW CONSTRUCTION - PLUMBING				•	•	•	•			
P2.1	DETAILS- PLUMBING		•		•	•	•	•			
P2.2	DETAILS- PLUMBING		•		•	•	•	•			
P3.1	SCHEDULES- PLUMBING		•		•	•	•	•			
P4.1	PLUMBING RISER DIAGRAM					•	•	•			
P4.2	PLUMBING RISER DIAGRAM					•	•	•			
P4.3	PLUMBING RISER DIAGRAM GAS					•	•	•			
P4.4	PLUMBING RISER DIAGRAM STORM					•	•	•			
FPD2.0a	GROUND FLOOR DEMOLITION PLAN AREA A- PH 2- FIRE PROTECTION		•		•	•	•	•			
FPD2.0b	GROUND FLOOR DEMOLITION PLAN AREA B- PH 2- FIRE PROTECTION		•		•	•	•	•			
FPD2.1a	FIRST FLOOR DEMOLITION PLAN AREA A- PH 2- FIRE PROTECTION		•		•	•	•	•			
FPD2.1b	FIRST FLOOR DEMOLITION PLAN AREA B- PH 2- FIRE PROTECTION		•		•	•	•	•			
FPD2.2a	SECOND FLOOR DEMOLITION PLAN AREA A- PH 2- FIRE PROTECTION		•		•	•	•	•			
FPD2.2b	SECOND FLOOR DEMOLITION PLAN AREA B- PH 2- FIRE PROTECTION		•		•	•	•	•			
FP1.0a	GROUND FLOOR NEW CONSTRUCTION PLAN AREA A- FIRE PROTECTION		•		•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
FP1.0b	GROUND FLOOR NEW CONSTRUCTION PLAN- AREA B- FIRE PROTECTION					•	•	•			
FP1.1a	FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- FIRE PROTECTION		•		•	•	•	•			
FP1.1b	FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- FIRE PROTECTION		•		•	•	•	•			
FP1.2a	SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- FIRE PROTECTION		•		•	•	•	•			
FP1.2b	SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- FIRE PROTECTION		•		•	•	•	•			
FP2.1	DETAILS- FIRE PROTECTION						•	•			

DRAWING SYMBOLS

A-A A-A — CROSS-SECTION

X / Y — EQUIPMENT DESIGNATION / EQUIPMENT NUMBER

X / Y — EQUIPMENT/RISER DESIGNATION / EQUIPMENT/RISER NUMBER

X X — DRAWING NOTE DESIGNATION

X — REVISION TRIANGLE

SPRINKLER NOTE:

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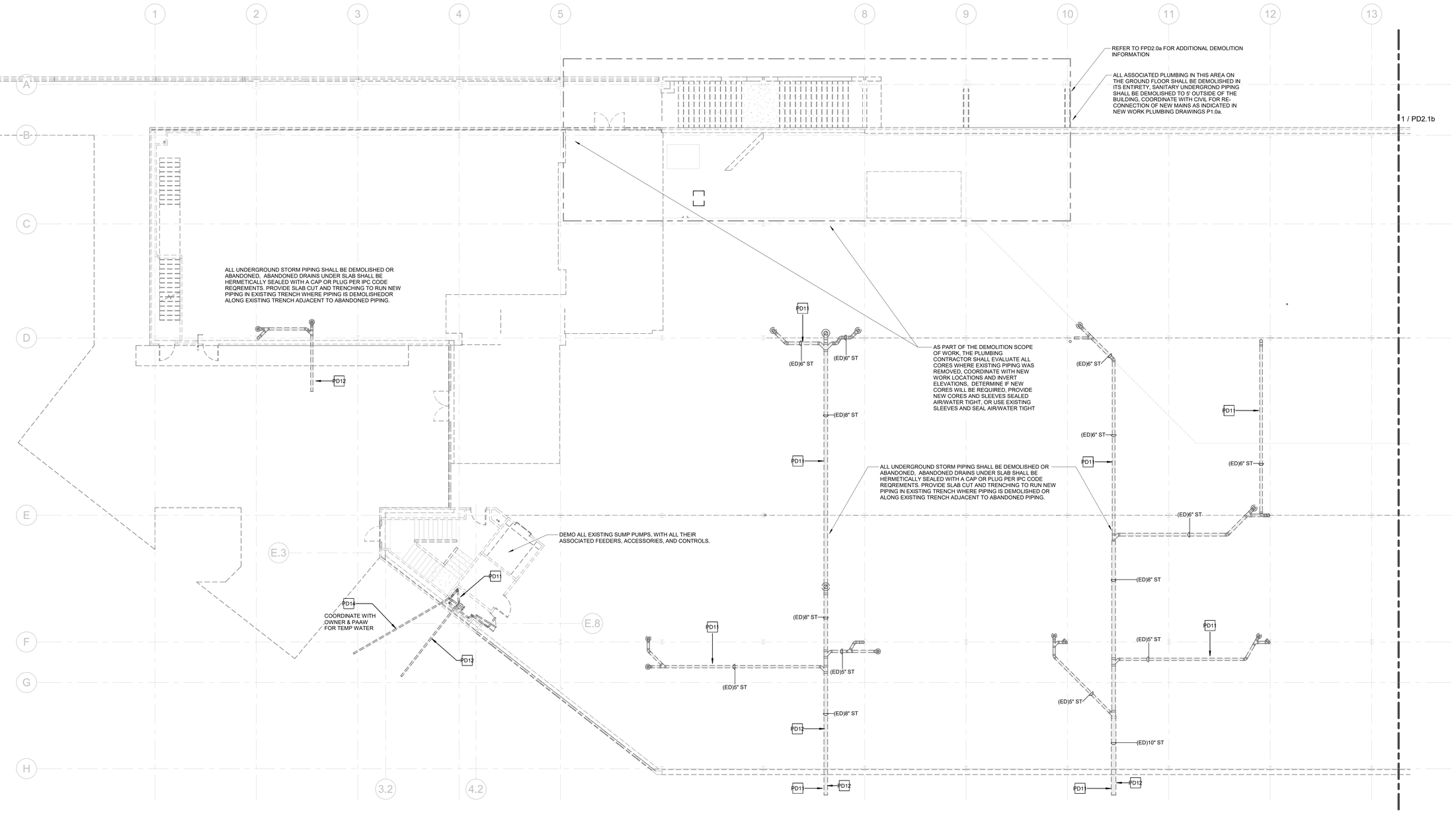
NO.	DESCRIPTION	DATE
	DEMO PACKAGE PH I	11/04/24
1	ADD #01	12/23/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25
3	CODE UPDATE CHANGES	04/10/26

P0.1

4/21/2026 4:23:49 PM



1 FIRST FLOOR DEMOLITION PLAN- PH 2- AREA A- PLUMBING

1/8" = 1'-0"

PLUMBING DEMOLITION KEYNOTES ⬡ NOTED THUS

PD11 EXISTING STORM DRAIN LEADERS SHALL BE DEMOLISHED IN THEIR ENTIERTY, DEMOLISH ALL INSULATION, HANGERS, FITTINGS, AND ALL ASSOCIATED APPURTANENCES INCLUDING BRACING THROUGH FLOORS, WALLS ETC..

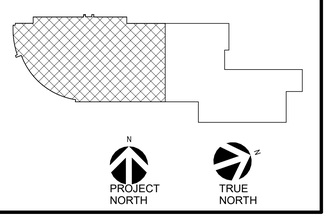
PD12 STORM DRAIN LATERAL TO BE DEMOLISHED TO 5' OUTSIDE OF THE BUILDING, COORDINATE WITH CIVIL FOR THE COTINUATION OF DEMOLITION TO THE MAIN

PD14 EXISTING DOMESTIC WATER SERVICE, METER, BACKFLOW PREVENTOR, VALVES AND PIPE TO BE DEMOLISHED IN ITS ENTIRETY. COORDINATE WITH CIVIL FOR THE CONTINUATION OF DEMOLITION TO THE MAIN.

GENERAL PLUMBING DEMOLITION NOTES (PHASE 2 DEMO):

1. IT SHALL BE THE INTENTION TO REMOVE THE EXISTING STORM PIPING SYSTEM IN ITS ENTIRETY.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE IN ORDER TO BEST UNDERSTAND THE SCOPE OF THE DEMOLITION WORK.
3. ALL DEMOLISHED MATERIALS SHALL BE RECYCLED WHEREVER POSSIBLE. ANY HAZARDOUS MATERIALS SHALL BE HANDLED ACCORDING TO GOVERNMENT REGULATION AND DISPOSED OF IN A SAFE MANNER.
4. ALL EXISTING SYSTEMS REMAINING AFTER PHASE 1 SHALL BE COMPLETELY REMOVED AND CLEANED LEAVING NO ABANDONED MATERIAL.
5. THE SCOPE OF PLUMBING DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   A. THE EXISTING STORM WATER SYSTEM INCLUDING ALL PIPING, HANGERS, FITTINGS, DRAINS, INSULATION, SLEEVES, PUMPS, CONTROLS, WIRING, ETC.

KEY PLAN



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MICHAEL WITKOWSKI
ENGINEER
REGISTERED
05/05/2026

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SCALE:AS NOTED

FIRST FLOOR DEMOLITION PLAN AREA A- PH 2- PLUMBING

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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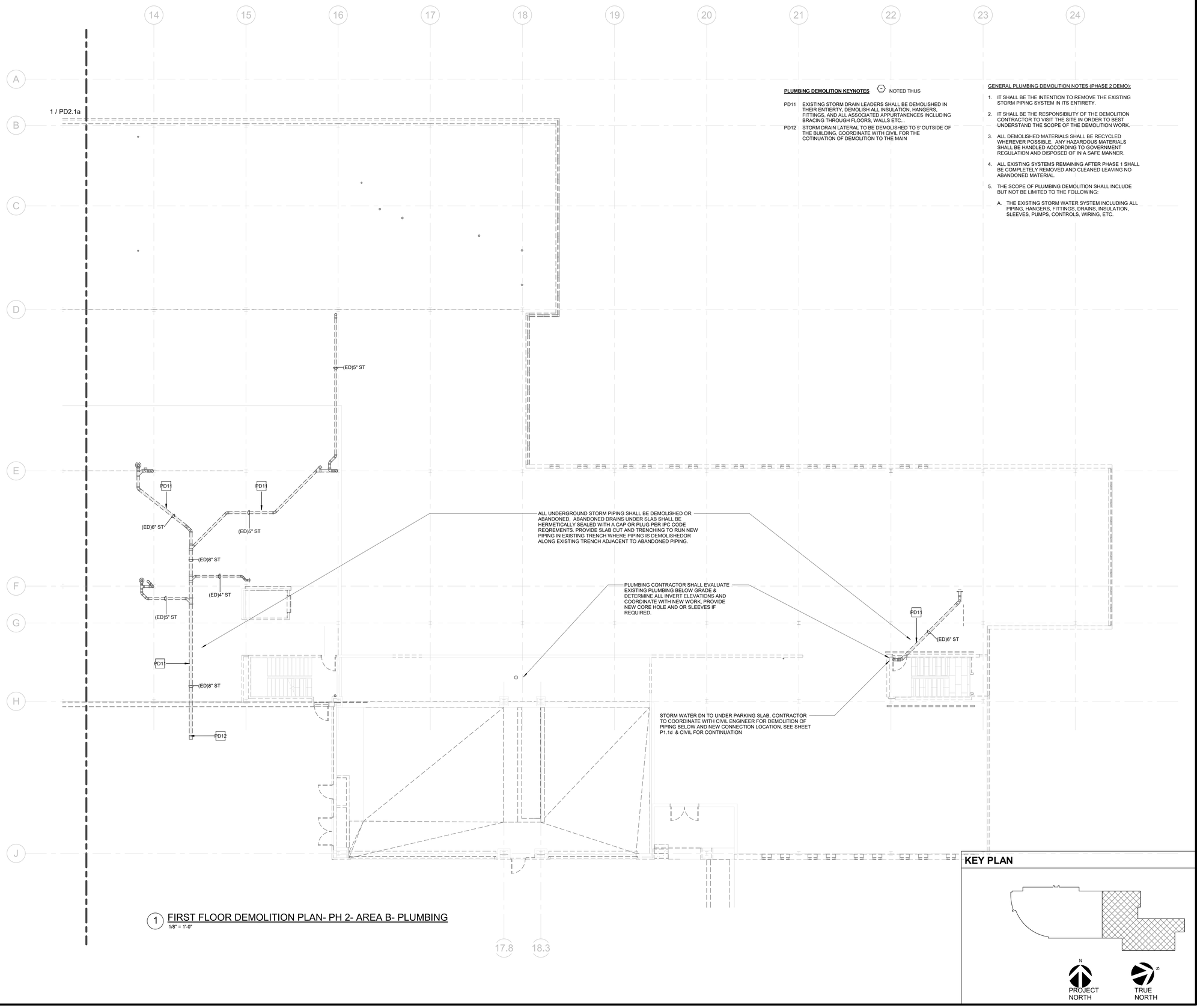

1 FIRST FLOOR DEMOLITION PLAN- PH 2- AREA B- PLUMBING
1/8" = 1'-0"

PLUMBING DEMOLITION KEYNOTES NOTED THUS

PD11 EXISTING STORM DRAIN LEADERS SHALL BE DEMOLISHED IN THEIR ENTIERTY, DEMOLISH ALL INSULATION, HANGERS, FITTINGS, AND ALL ASSOCIATED APPURTANENCES INCLUDING BRACING THROUGH FLOORS, WALLS ETC..

PD12 STORM DRAIN LATERAL TO BE DEMOLISHED TO 5' OUTSIDE OF THE BUILDING, COORDINATE WITH CIVIL FOR THE COTINUATION OF DEMOLITION TO THE MAIN

GENERAL PLUMBING DEMOLITION NOTES (PHASE 2 DEMO):

1. IT SHALL BE THE INTENTION TO REMOVE THE EXISTING STORM PIPING SYSTEM IN ITS ENTIRETY.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE IN ORDER TO BEST UNDERSTAND THE SCOPE OF THE DEMOLITION WORK.
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   A. THE EXISTING STORM WATER SYSTEM INCLUDING ALL PIPING, HANGERS, FITTINGS, DRAINS, INSULATION, SLEEVES, PUMPS, CONTROLS, WIRING, ETC.

KEY PLAN

PROJECT NORTH

TRUE NORTH

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FIRST FLOOR DEMOLITION PLAN AREA B- PH 2- PLUMBING

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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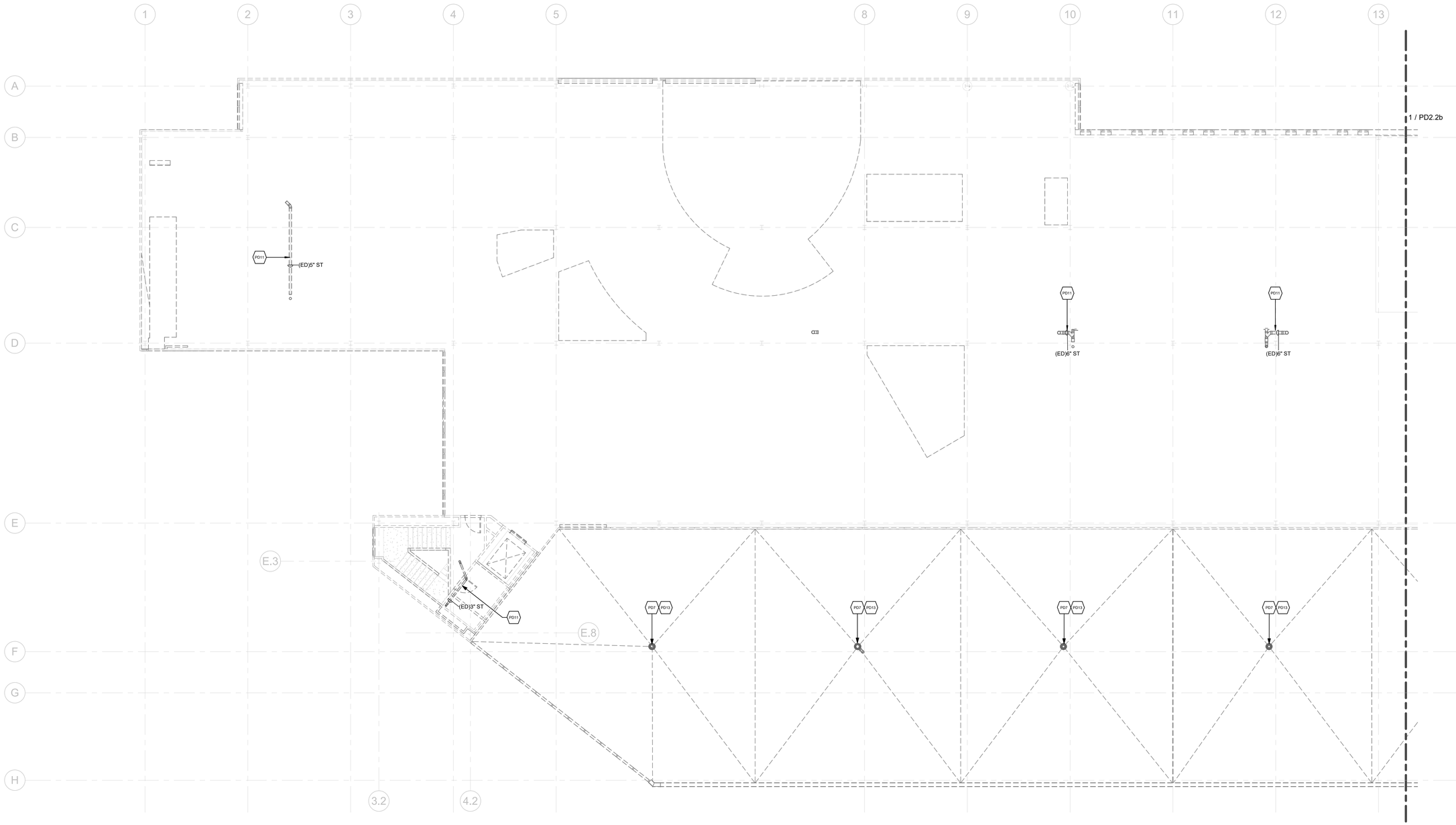

1 SECOND FLOOR DEMOLITION PLAN- PH 2- AREA A - PLUMBING

1/8" = 1'-0"

PLUMBING DEMOLITION KEYNOTES ⬡ NOTED THUS

PD7 EXISTING ROOF DRAIN TO BE DEMOLISHED. ROOFER TO COORDINATE WITH GC FOR PENTERATION PROTECTION OR PATCH FOR FUTRE USE.

PD11 EXISTING STORM DRAIN LEADERS SHALL BE DEMOLISHED IN THEIR ENTIERTY, DEMOLISH ALL INSULATION, HANGERS, FITTINGS, AND ALL ASSOCIATED APPURTANENCES INCLUDING BRACING THROUGH FLOORS, WALLS ETC..

PD13 THE CONTRACTOR SHALL PROVIDE TEMPORAY DRAINAGE DURING CONSTRUCTION.

GENERAL PLUMBING DEMOLITION NOTES (PHASE 2 DEMO):

1. IT SHALL BE THE INTENTION TO REMOVE THE EXISTING STORM PIPING SYSTEM IN ITS ENTIRETY.
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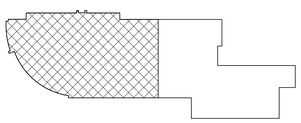
KEY PLAN



N
PROJECT NORTH

TRUE NORTH

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SECOND FLOOR DEMOLITION PLAN AREA A- PH 2- PLUMBING

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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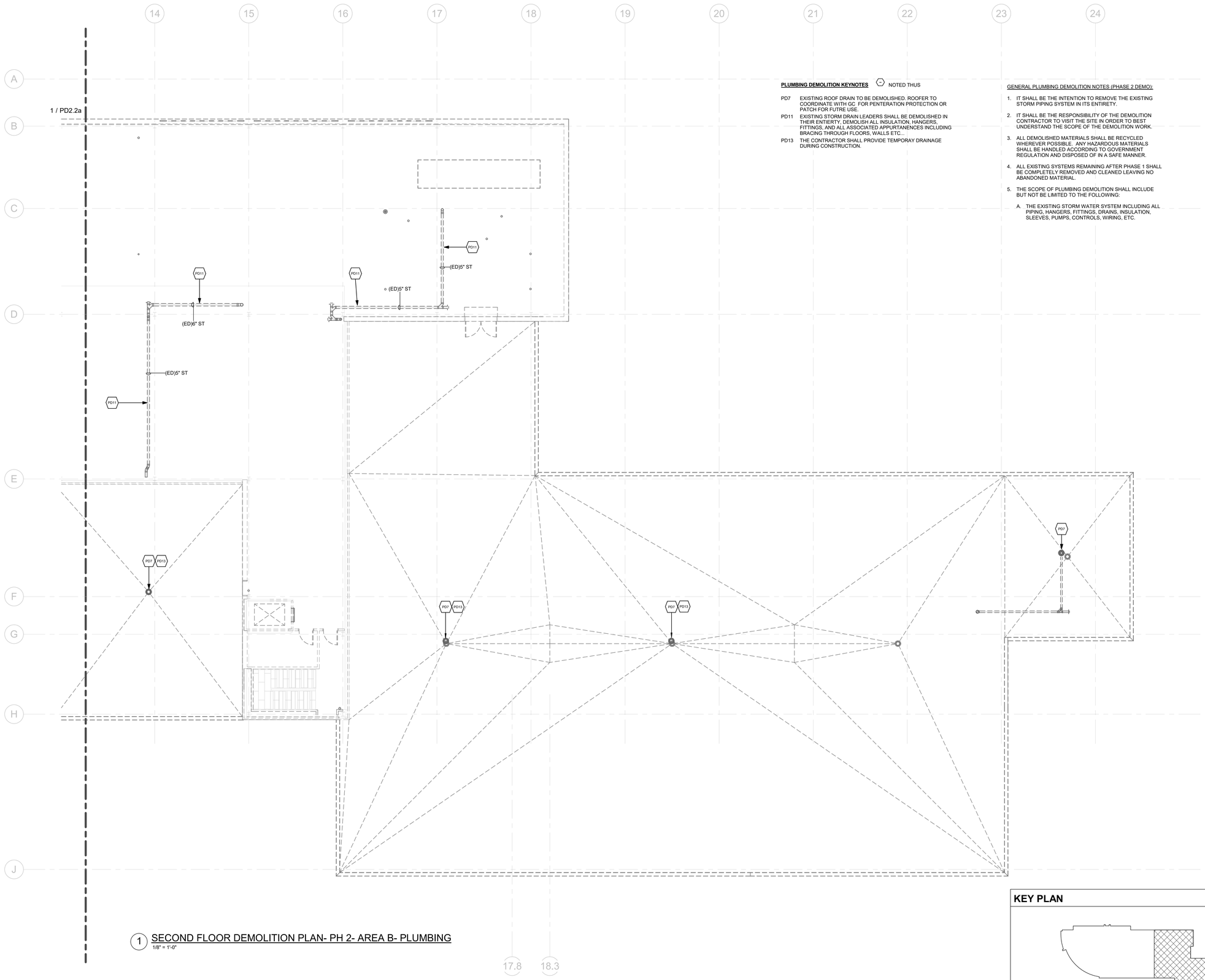

PLUMBING DEMOLITION KEYNOTES ⟨-⟩ NOTED THUS

PD7 EXISTING ROOF DRAIN TO BE DEMOLISHED. ROOFER TO COORDINATE WITH GC FOR PENTERATION PROTECTION OR PATCH FOR FUTRE USE.

PD11 EXISTING STORM DRAIN LEADERS SHALL BE DEMOLISHED IN THEIR ENTIERTY, DEMOLISH ALL INSULATION, HANGERS, FITTINGS, AND ALL ASSOCIATED APPURTANENCES INCLUDING BRACING THROUGH FLOORS, WALLS ETC..

PD13 THE CONTRACTOR SHALL PROVIDE TEMPORAY DRAINAGE DURING CONSTRUCTION.

GENERAL PLUMBING DEMOLITION NOTES (PHASE 2 DEMO):

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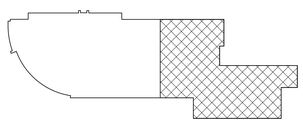
1 SECOND FLOOR DEMOLITION PLAN- PH 2- AREA B- PLUMBING
1/8" = 1'-0"

KEY PLAN



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SECOND FLOOR DEMOLITION PLAN AREA B- PH 2- PLUMBING

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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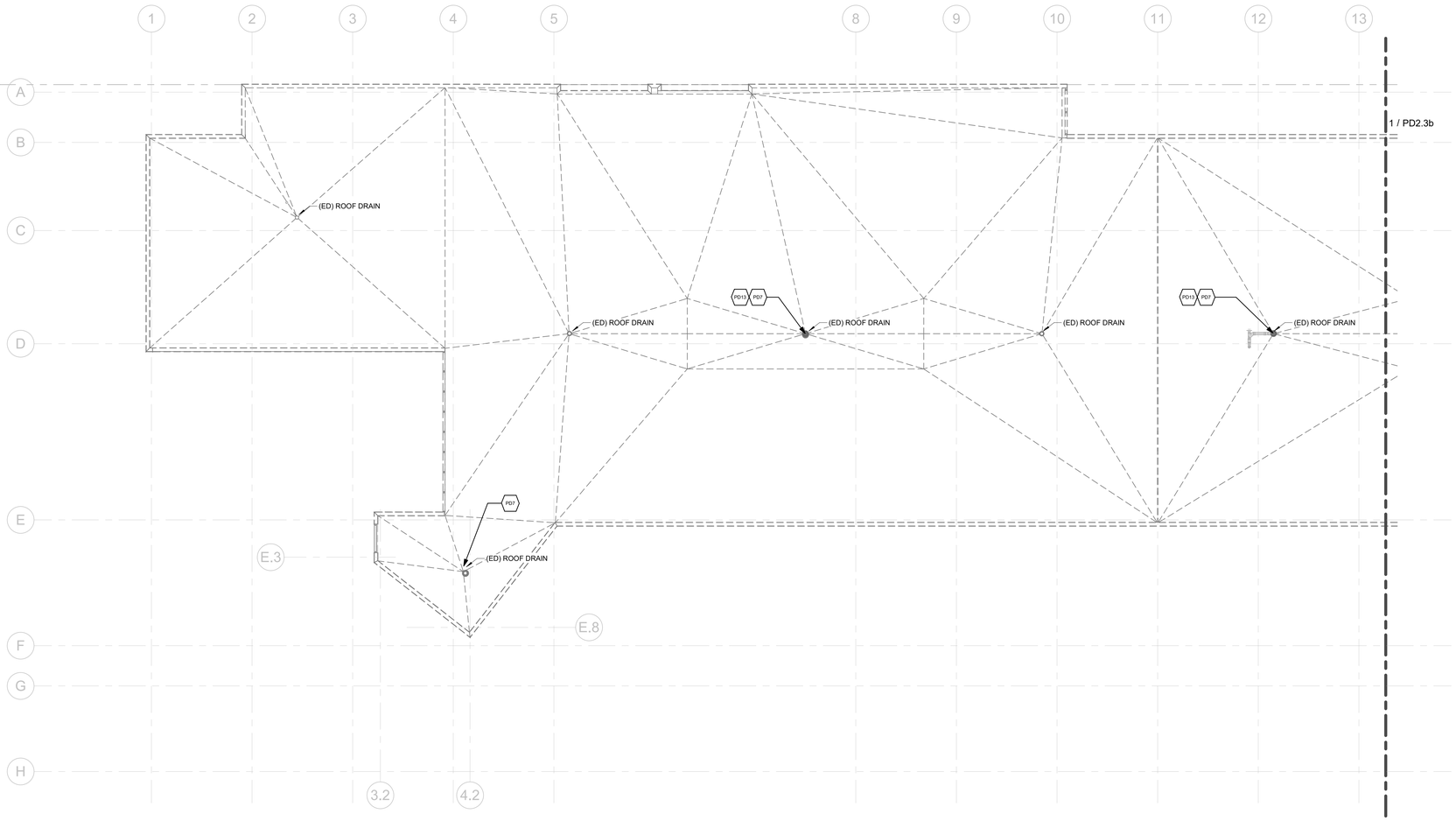


1 DEMO ROOF PLAN - PH 2- AREA A- PLUMBING

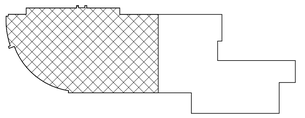
3/32" = 1'-0"

PLUMBING DEMOLITION KEYNOTES ⟨◇⟩ NOTED THUS

PD7 EXISTING ROOF DRAIN TO BE DEMOLISHED. ROOFER TO COORDINATE WITH GC. FOR PENTERATION PROTECTION OR PATCH FOR FUTRE USE.

PD13 THE CONTRACTOR SHALL PROVIDE TEMPORAY DRAINAGE DURING CONSTRUCTION.

KEY PLAN



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ROOF DEMOLITION PLAN AREA A- PH 2- PLUMBING

NO.	DESCRIPTION	DATE
	BID & PERMIT	10/03/25

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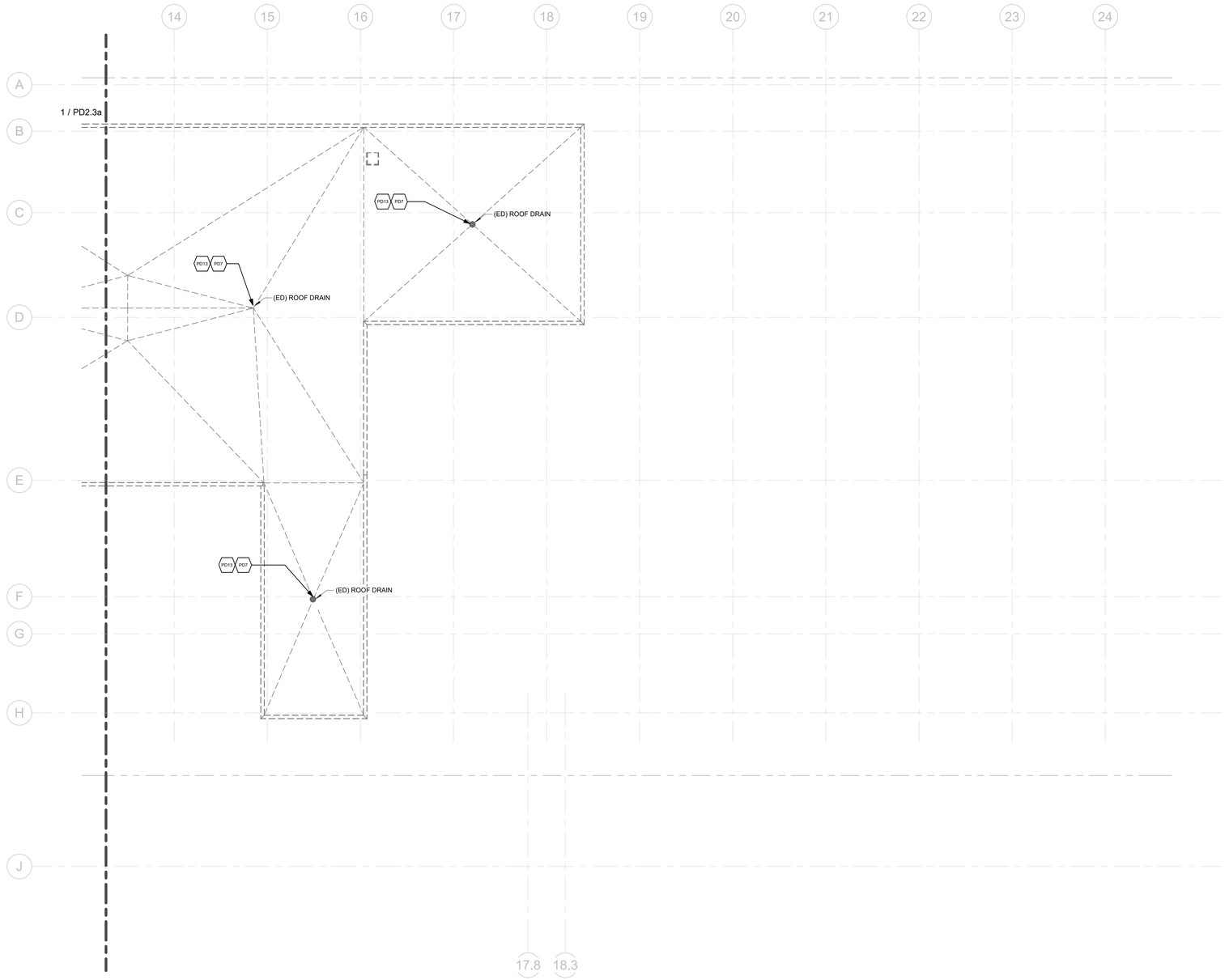

1 DEMO ROOF PLAN - PH 2- AREA B- PLUMBING

3/32" = 1'-0"

PLUMBING DEMOLITION KEYNOTES ⬡ NOTED THUS

PD7 EXISTING ROOF DRAIN TO BE DEMOLISHED. ROOFER TO COORDINATE WITH GC FOR PENTERATION PROTECTION OR PATCH FOR FUTRE USE.

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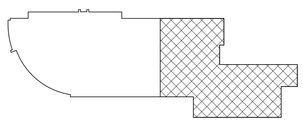
KEY PLAN



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ROOF DEMOLITION PLAN AREA B- PH 2- PLUMBING

NO.	DESCRIPTION	DATE
	BID & PERMIT	10/03/25

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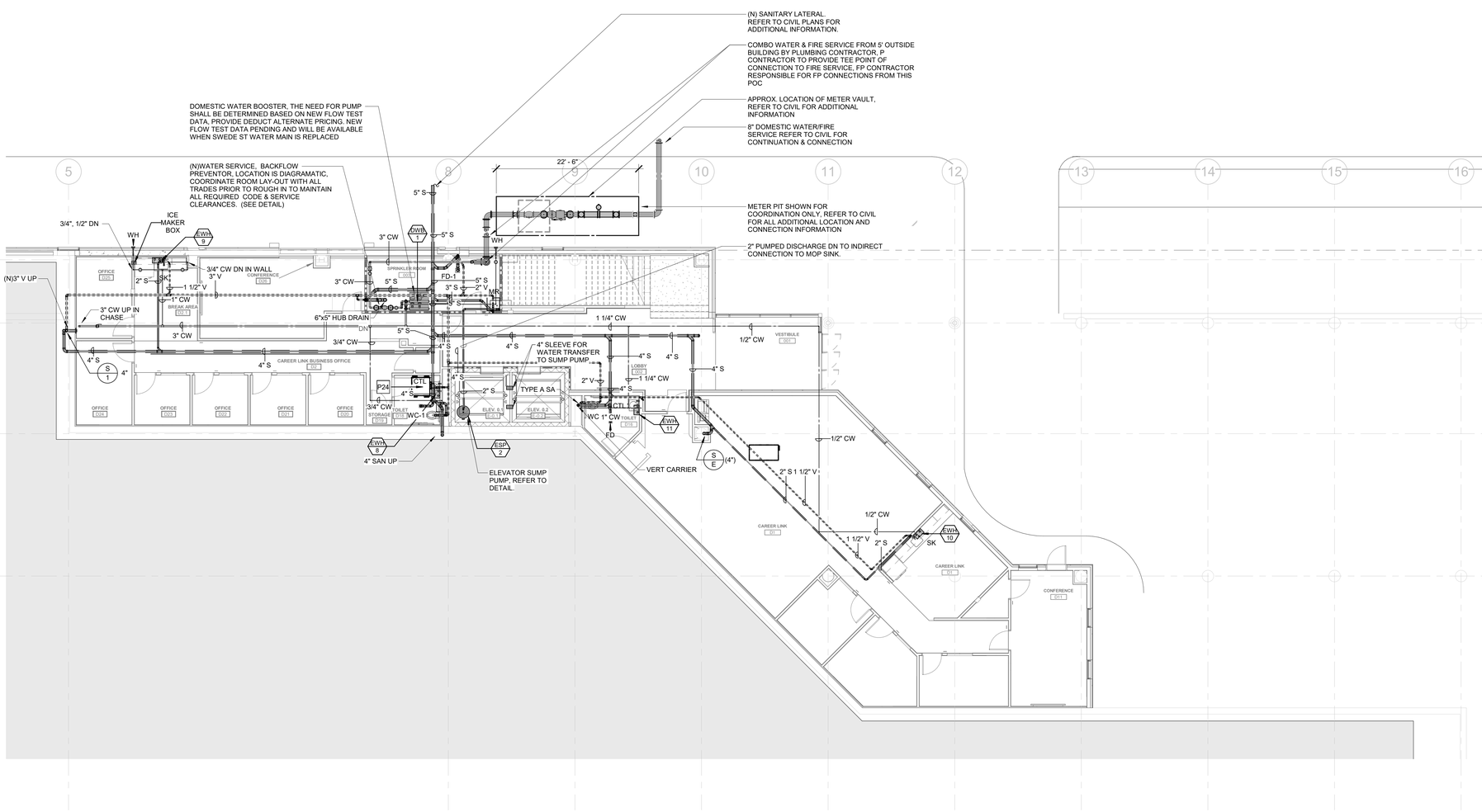


1 GROUND FLOOR- NEW CONSTRUCTION PLAN- PLUMBING
1/8" = 1'-0"

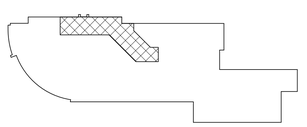
GENERAL PLUMBING NOTES:

1. COORDINATE ALL BELOW GRADE PLUMBING PIPING WITH FOUNDATION ELEVATIONS AND SITE UTILITY INVERTS. VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
2. PROVIDE WATER HAMMER ARRESTORS IN CONFORMANCE WITH PDI AND LOCAL ORDINANCES AT FLUSH VALVES, SOLENOIDS, FAST CLOSING VALVES, ETC.
3. DO NOT ROUTE PLUMBING PIPING THROUGH ELECTRICAL ROOMS, ELECTRICAL CLOSETS, OR DATA COMMUNICATION CENTERS.
4. DO NOT ROUTE PLUMBING PIPING THROUGH ELEVATOR SHAFT UNLESS PIPING IS DEDICATED TO SHAFT. DO NOT ROUTE PLUMBING PIPING THROUGH UTILITY CHASES UNLESS CHASE IS DEDICATED FOR PLUMBING SERVICES.
5. PROVIDE SHUT OFF VALVES CLOSE TO MAINS ON EACH BRANCH AND RISER SERVING PLUMBING FIXTURES, CASEWORK OR EQUIPMENT. PROVIDE SHUT OFF VALVES ON EACH WATER SUPPLY TO PLUMBING FIXTURES THAT DO NOT HAVE SUPPLY STOPS. PROVIDE ACCESS PANELS FOR ALL VALVES.
6. PROVIDE CLOSED CELL MOLDED VINYL INSULATION ON EXPOSED ADA LAVATORY DRAINS, TRAPS, AND SUPPLIES.
7. COORDINATE LOCATIONS OF FLOOR DRAINS WITH ARCHITECTURAL PLANS.
8. PROVIDE CLEANOUTS AT THE BASE OF ALL RAINWATER CONDUCTORS AND SANITARY WASTE STACKS, AT EVERY CHANGE IN DIRECTION AND 50'-0" ON CENTER FOR STRAIGHT LENGTHS.
9. PROVIDE VENT LIMITERS ON ALL NATURAL GAS PRESSURE REGULATORS.
10. THE CONTRACTOR SHALL PROVIDE BALANCING VALVES ON ALL BRANCHES OF THE DOMESTIC HOT WATER RETURN SYSTEM, BALANCE THE SYSTEM, AND PROVIDE BALANCING REPORT TO THE OWNER/ENGINEER FOR RECORD. ALL HOT WATER BALANCING VALVES SHALL BE SET TO 1 GPM UNLESS OTHERWISE NOTED.
11. PROVIDE LOW POINT DRAIN VALVES WITH HOSE CONNECTIONS ON EACH FLOOR. LOCATE WHERE SERVICE MAINS CONNECT TO RISERS IN VALVE CLOSETS OR JANITOR'S CLOSETS. PROVIDE BLUE AND RED CIELING MARKERS ON DROP CIELINGS.
12. REFER TO DOMESTIC WATER AND SANITARY RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
13. REFER TO STORM WATER RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
14. REFER TO NATURAL GAS RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
15. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.
16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

PLUMBING KEYNOTES [-] NOTED THUS

P24 PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVS

KEY PLAN



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05/05/2026

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GROUND FLOOR NEW CONSTRUCTION PLAN- PLUMBING

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	ALTERNATE PRICING	08/08/25
	BID & PERMIT	10/03/25
3	CODE UPDATE CHANGES	04/10/26

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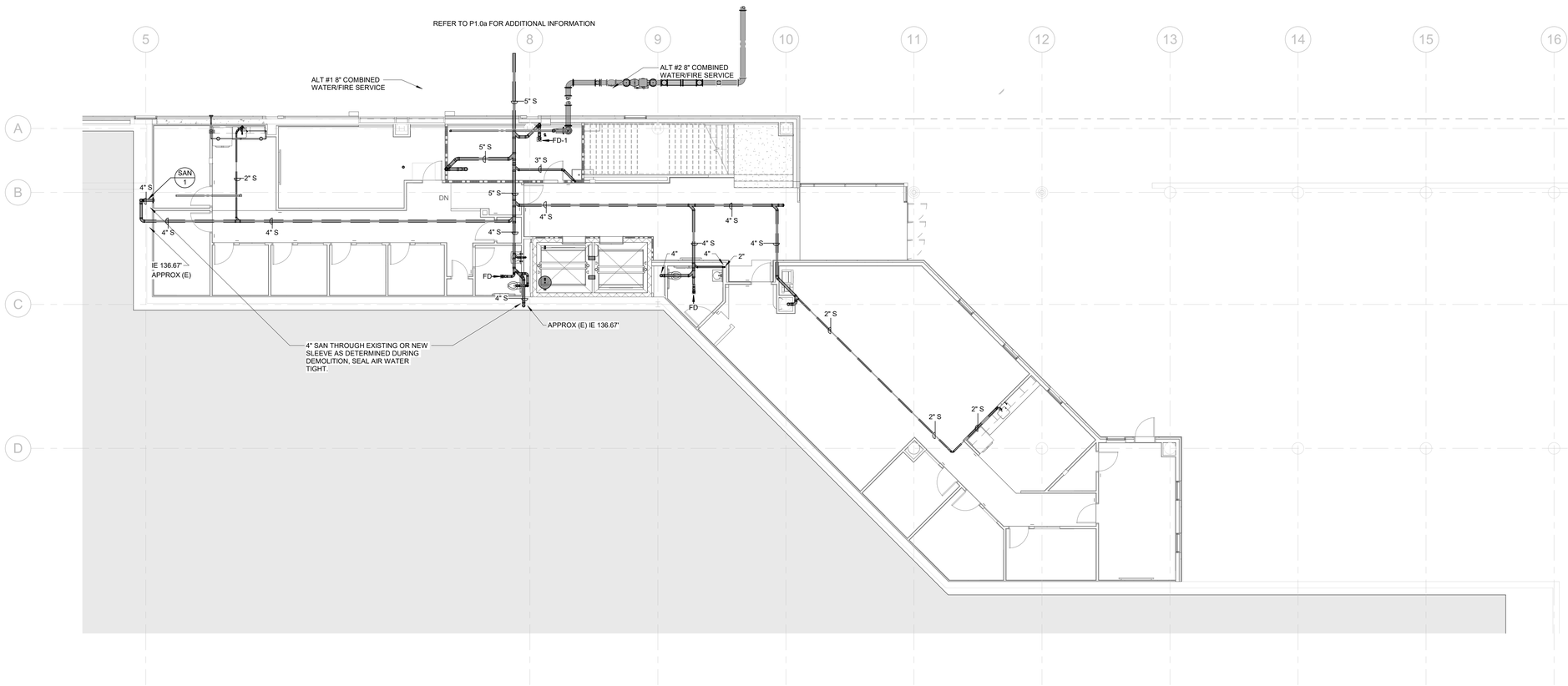

1 GROUND FLOOR- NEW CONSTRUCTION PLAN- UNDERGROUND
1/8" = 1'-0"

GENERAL PLUMBING NOTES:

1. COORDINATE ALL BELOW GRADE PLUMBING PIPING WITH FOUNDATION ELEVATIONS AND SITE UTILITY INVERTS. VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
2. PROVIDE WATER HAMMER ARRESTORS IN CONFORMANCE WITH PDI AND LOCAL ORDINANCES AT FLUSH VALVES, SOLENOIDS, FAST CLOSING VALVES, ETC.
3. DO NOT ROUTE PLUMBING PIPING THROUGH ELECTRICAL ROOMS, ELECTRICAL CLOSETS, OR DATA COMMUNICATION CENTERS.
4. DO NOT ROUTE PLUMBING PIPING THROUGH ELEVATOR SHAFT UNLESS PIPING IS DEDICATED TO SHAFT. DO NOT ROUTE PLUMBING PIPING THROUGH UTILITY CHASES UNLESS CHASE IS DEDICATED FOR PLUMBING SERVICES.
5. PROVIDE SHUT OFF VALVES CLOSE TO MAINS ON EACH BRANCH AND RISER SERVING PLUMBING FIXTURES, CASEWORK OR EQUIPMENT. PROVIDE SHUT OFF VALVES ON EACH WATER SUPPLY TO PLUMBING FIXTURES THAT DO NOT HAVE SUPPLY STOPS. PROVIDE ACCESS PANELS FOR ALL VALVES.
6. PROVIDE CLOSED CELL MOLDED VINYL INSULATION ON EXPOSED ADA LAVATORY DRAINS, TRAPS, AND SUPPLIES.
7. COORDINATE LOCATIONS OF FLOOR DRAINS WITH ARCHITECTURAL PLANS.
8. PROVIDE CLEANOUTS AT THE BASE OF ALL RAINWATER CONDUCTORS AND SANITARY WASTE STACKS, AT EVERY CHANGE IN DIRECTION AND 50'-0" ON CENTER FOR STRAIGHT LENGTHS.
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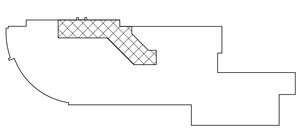
12. REFER TO DOMESTIC WATER AND SANITARY RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
13. REFER TO STORM WATER RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
14. REFER TO NATURAL GAS RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
15. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.
16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MICHAEL WITKOWSKI ENGINEER 056722E
05/05/2026

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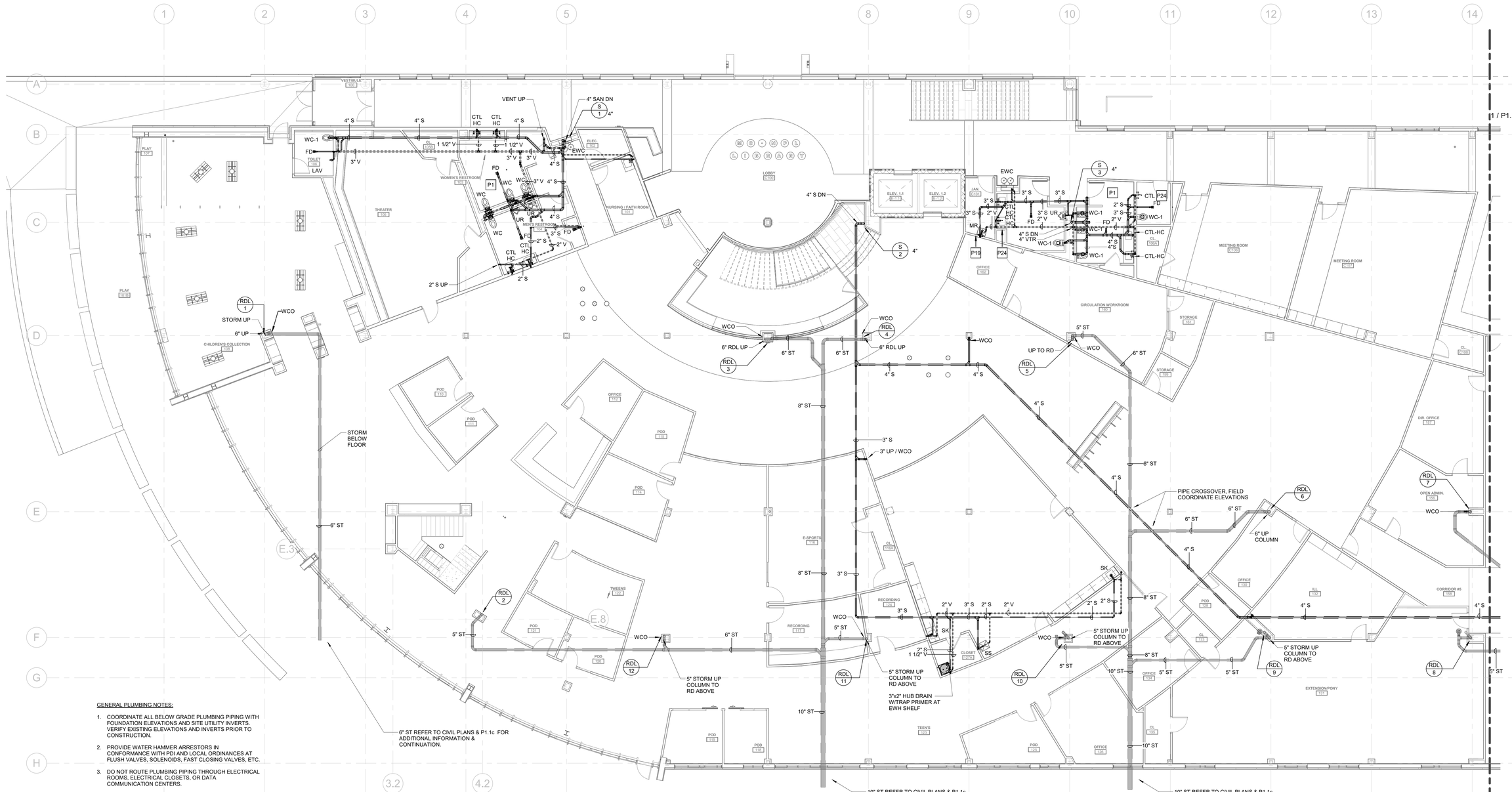
GROUND FLOOR NEW CONSTRUCTION PLAN- UNDERGROUND PLUMBING

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

P1.0b

4/21/2026 4:24:10 PM



GENERAL PLUMBING NOTES:

1. COORDINATE ALL BELOW GRADE PLUMBING PIPING WITH FOUNDATION ELEVATIONS AND SITE UTILITY INVERTS. VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
2. PROVIDE WATER HAMMER ARRESTORS IN CONFORMANCE WITH PDI AND LOCAL ORDINANCES AT FLUSH VALVES, SOLENOIDS, FAST CLOSING VALVES, ETC.
3. DO NOT ROUTE PLUMBING PIPING THROUGH ELECTRICAL ROOMS, ELECTRICAL CLOSETS, OR DATA COMMUNICATION CENTERS.
4. DO NOT ROUTE PLUMBING PIPING THROUGH ELEVATOR SHAFT UNLESS PIPING IS DEDICATED TO SHAFT. DO NOT ROUTE PLUMBING PIPING THROUGH UTILITY CHASES UNLESS CHASE IS DEDICATED FOR PLUMBING SERVICES.
5. PROVIDE SHUT OFF VALVES CLOSE TO MAINS ON EACH BRANCH AND RISER SERVING PLUMBING FIXTURES, CASEWORK OR EQUIPMENT. PROVIDE SHUT OFF VALVES ON EACH WATER SUPPLY TO PLUMBING FIXTURES THAT DO NOT HAVE SUPPLY STOPS. PROVIDE ACCESS PANELS FOR ALL VALVES.
6. PROVIDE CLOSED CELL MOLDED VINYL INSULATION ON EXPOSED ADA LAVATORY DRAINS, TRAPS, AND SUPPLIES.
7. COORDINATE LOCATIONS OF FLOOR DRAINS WITH ARCHITECTURAL PLANS.
8. PROVIDE CLEANOUTS AT THE BASE OF ALL RAINWATER CONDUCTORS AND SANITARY WASTE STACKS, AT EVERY CHANGE IN DIRECTION AND 50'-0" ON CENTER FOR STRAIGHT LENGTHS.
9. PROVIDE VENT LIMITERS ON ALL NATURAL GAS PRESSURE REGULATORS.
10. THE CONTRACTOR SHALL PROVIDE BALANCING VALVES ON ALL BRANCHES OF THE DOMESTIC HOT WATER RETURN SYSTEM, BALANCE THE SYSTEM, AND PROVIDE BALANCING REPORT TO THE OWNER/ENGINEER FOR RECORD. ALL HOT WATER BALANCING VALVES SHALL BE SET TO 1 GPM UNLESS OTHERWISE NOTED.
11. PROVIDE LOW POINT DRAIN VALVES WITH HOSE CONNECTIONS ON EACH FLOOR. LOCATE WHERE SERVICE MAINS CONNECT TO RISERS IN VALVE CLOSETS OR JANITOR'S CLOSETS. PROVIDE BLUE AND RED CIELING MARKERS ON DROP CIELINGS.
12. REFER TO DOMESTIC WATER AND SANITARY RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
13. REFER TO STORM WATER RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
14. REFER TO NATURAL GAS RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
15. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.
16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

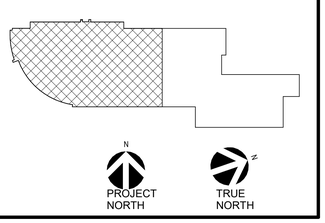
1 1ST FLR- NEW CONSTRUCTION PLAN- SANITARY & STORM - AREA A

1/8" = 1'-0"

PLUMBING KEYNOTES [-] NOTED THUS

P1 INSULATE ALL SANITARY AND DOMESTIC WATER PIPING ABOVE THE BATHROOM CEILING
P19 PROVIDE CHECK VALVES ON ALL MOP RECEPTOR HOT & COLD WATER SUPPLY PIPING TO PREVENT CROSSCONNECTION
P24 PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVS

KEY PLAN



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FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- SANITARY & STORM

NO.	DESCRIPTION	DATE
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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

P1.1a

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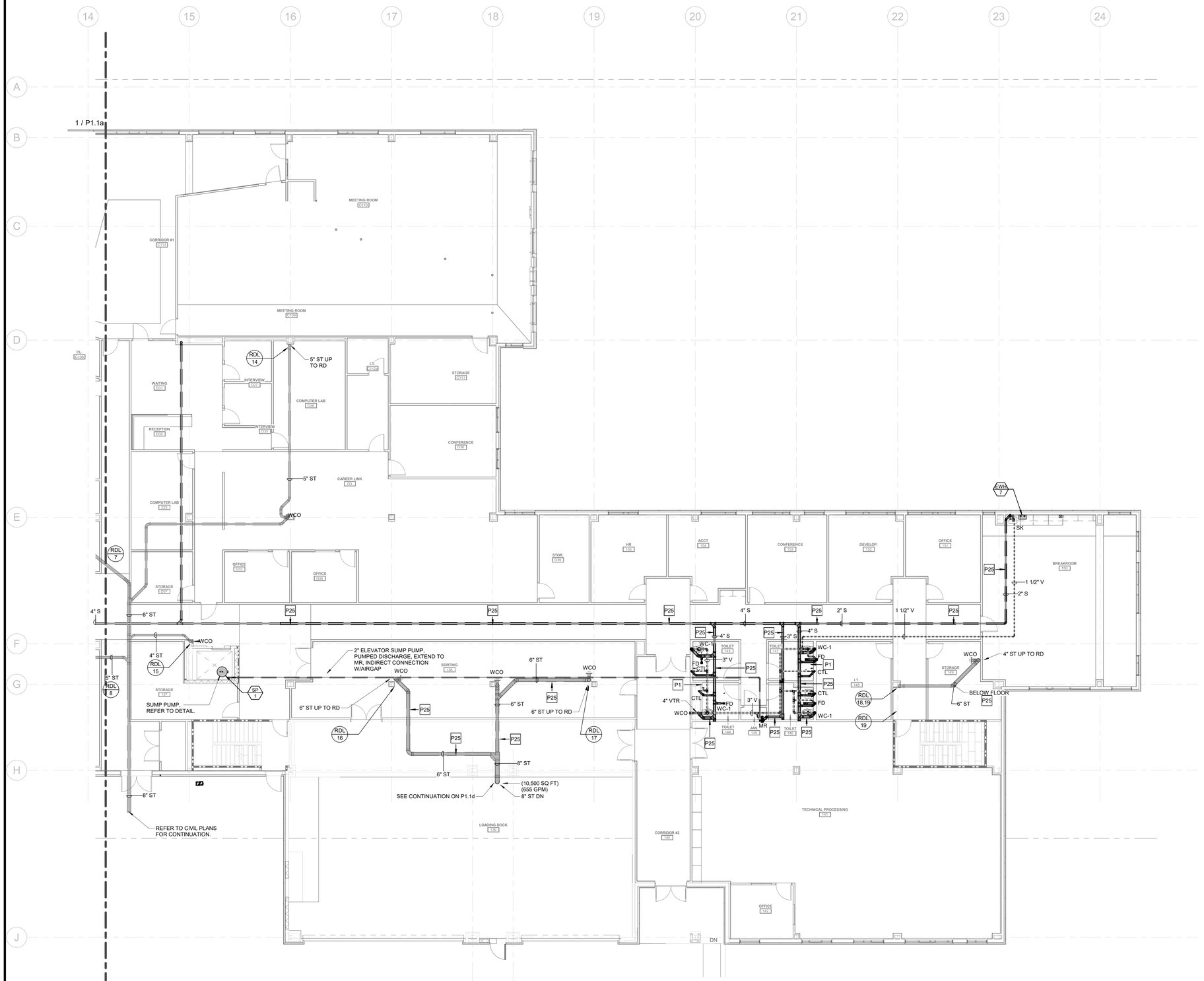

1 1ST FLR- NEW CONSTRUCTION PLAN- SANITARY & STORM - AREA B

1/8" = 1'-0"

NOTE:
1. CEILINGS ARE RETURN AIR PLENUMS, NO PVC PIPING IS ALLOWED.

GENERAL PLUMBING NOTES:

1. COORDINATE ALL BELOW GRADE PLUMBING PIPING WITH FOUNDATION ELEVATIONS AND SITE UTILITY INVERTS. VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
2. PROVIDE WATER HAMMER ARRESTORS IN CONFORMANCE WITH PDI AND LOCAL ORDINANCES AT FLUSH VALVES, SOLENOIDS, FAST CLOSING VALVES, ETC.
3. DO NOT ROUTE PLUMBING PIPING THROUGH ELECTRICAL ROOMS, ELECTRICAL CLOSETS, OR DATA COMMUNICATION CENTERS.
4. DO NOT ROUTE PLUMBING PIPING THROUGH ELEVATOR SHAFT UNLESS PIPING IS DEDICATED TO SHAFT. DO NOT ROUTE PLUMBING PIPING THROUGH UTILITY CHASES UNLESS CHASE IS DEDICATED FOR PLUMBING SERVICES.
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6. PROVIDE CLOSED CELL MOLDED VINYL INSULATION ON EXPOSED ADA LAVATORY DRAINS, TRAPS, AND SUPPLIES.
7. COORDINATE LOCATIONS OF FLOOR DRAINS WITH ARCHITECTURAL PLANS.
8. PROVIDE CLEANOUTS AT THE BASE OF ALL RAINWATER CONDUCTORS AND SANITARY WASTE STACKS, AT EVERY CHANGE IN DIRECTION AND 50'-0" ON CENTER FOR STRAIGHT LENGTHS.
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10. THE CONTRACTOR SHALL PROVIDE BALANCING VALVES ON ALL BRANCHES OF THE DOMESTIC HOT WATER RETURN SYSTEM, BALANCE THE SYSTEM, AND PROVIDE BALANCING REPORT TO THE OWNER/ENGINEER FOR RECORD. ALL HOT WATER BALANCING VALVES SHALL BE SET TO 1 GPM UNLESS OTHERWISE NOTED.
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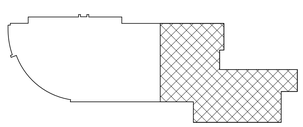
15. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.
16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

PLUMBING KEYNOTES [*] NOTED THUS

P1 INSULATE ALL SANITARY AND DOMESTIC WATER PIPING ABOVE THE BATHROOM CEILING

P25 INSULATED PIPING WITH HEAT TRACE. PROVIDE CHROMOLOX 120 VOLT TW6 SELF REGULATING HEAT TRACE. 6 WATTS PER LINEAR FOOT. 1" PIPE INSULATION WITH 1.3 SPIRAL RATIO PER FT. PLUMBING CONTRACTOR SHALL PROVIDE HEAT TRACE AS INDICATED. COORDINATE CONNECTION WITH ELECTRICAL.

KEY PLAN



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RE402376
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FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- SANITARY & STORM

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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

P1.1b

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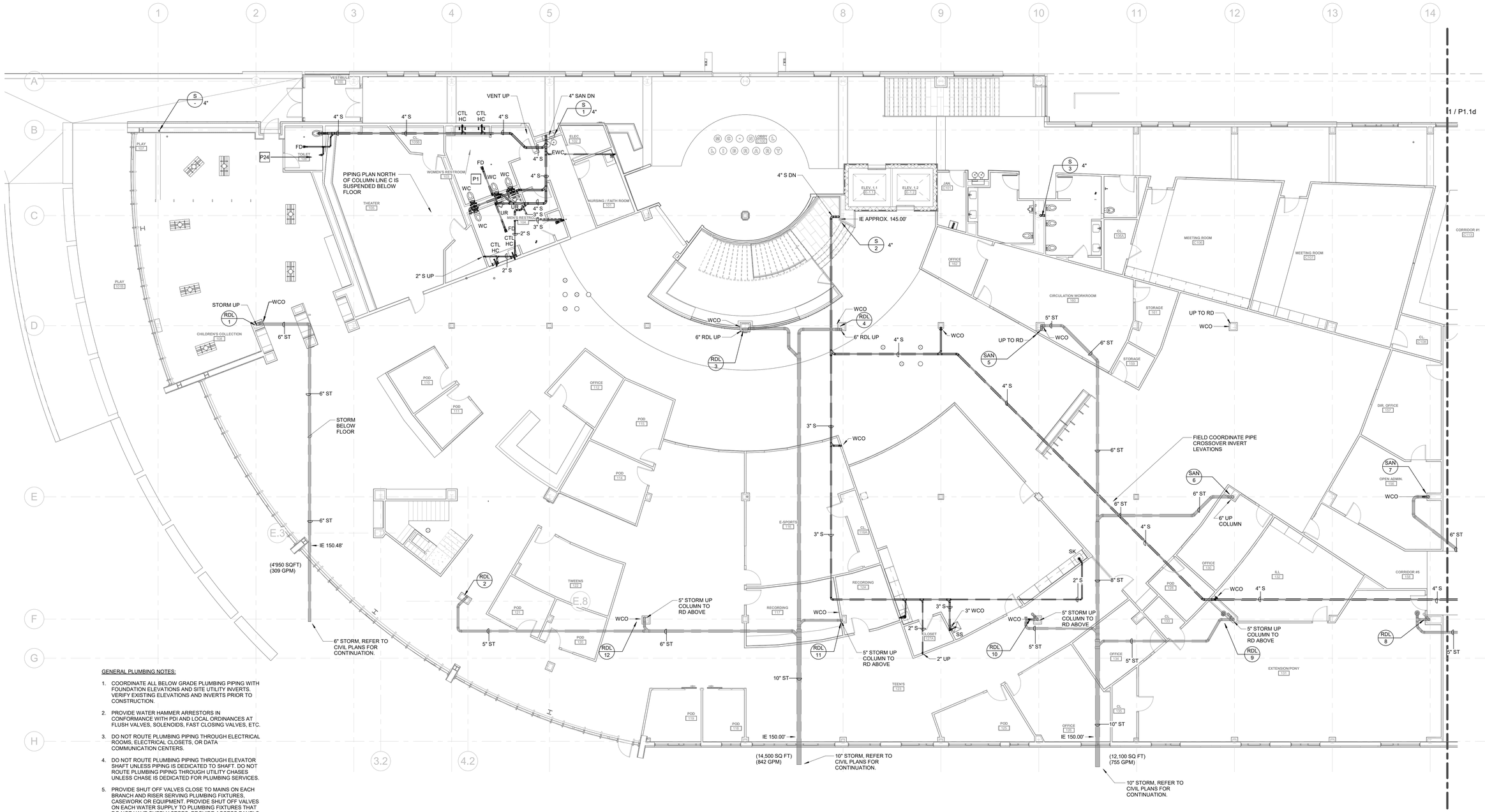

1 1- FIRST FLOOR- NEW CONSTRUCTION PLAN- UNDERGROUND PLUMBING - AREA A

1/8" = 1'-0"

PLUMBING KEYNOTES [-] NOTED THUS

P1 INSULATE ALL SANITARY AND DOMESTIC WATER PIPING ABOVE THE BATHROOM CEILING

P24 PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVS

GENERAL PLUMBING NOTES:

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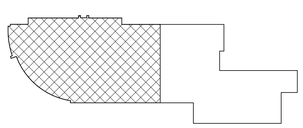
KEY PLAN



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FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- UNDERGROUND PLUMBING

NO.	DESCRIPTION	DATE
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	BID & PERMIT	10/03/25

P1.1c

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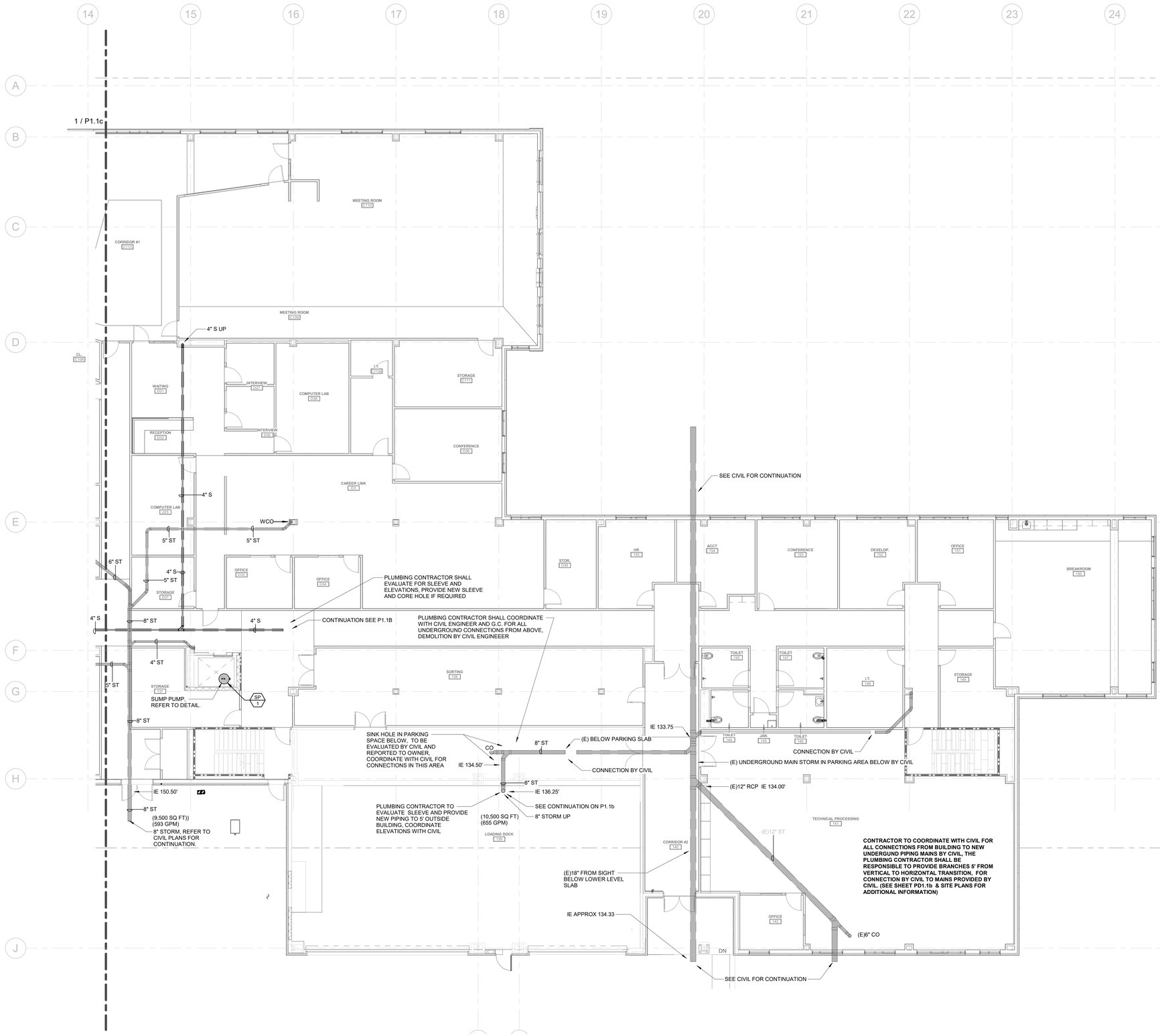

1 1- FIRST FLOOR- NEW CONSTRUCTION PLAN- UNDERGROUND PLUMBING - AREA B
1/8" = 1'-0"

GENERAL PLUMBING NOTES:

1. COORDINATE ALL BELOW GRADE PLUMBING PIPING WITH FOUNDATION ELEVATIONS AND SITE UTILITY INVERTS. VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
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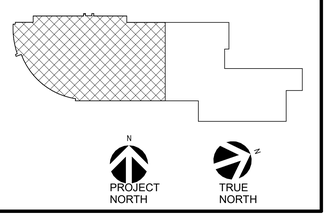
15. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.
16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

KEY PLAN



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FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- UNDERGROUND PLUMBING

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	BID & PERMIT	10/03/25

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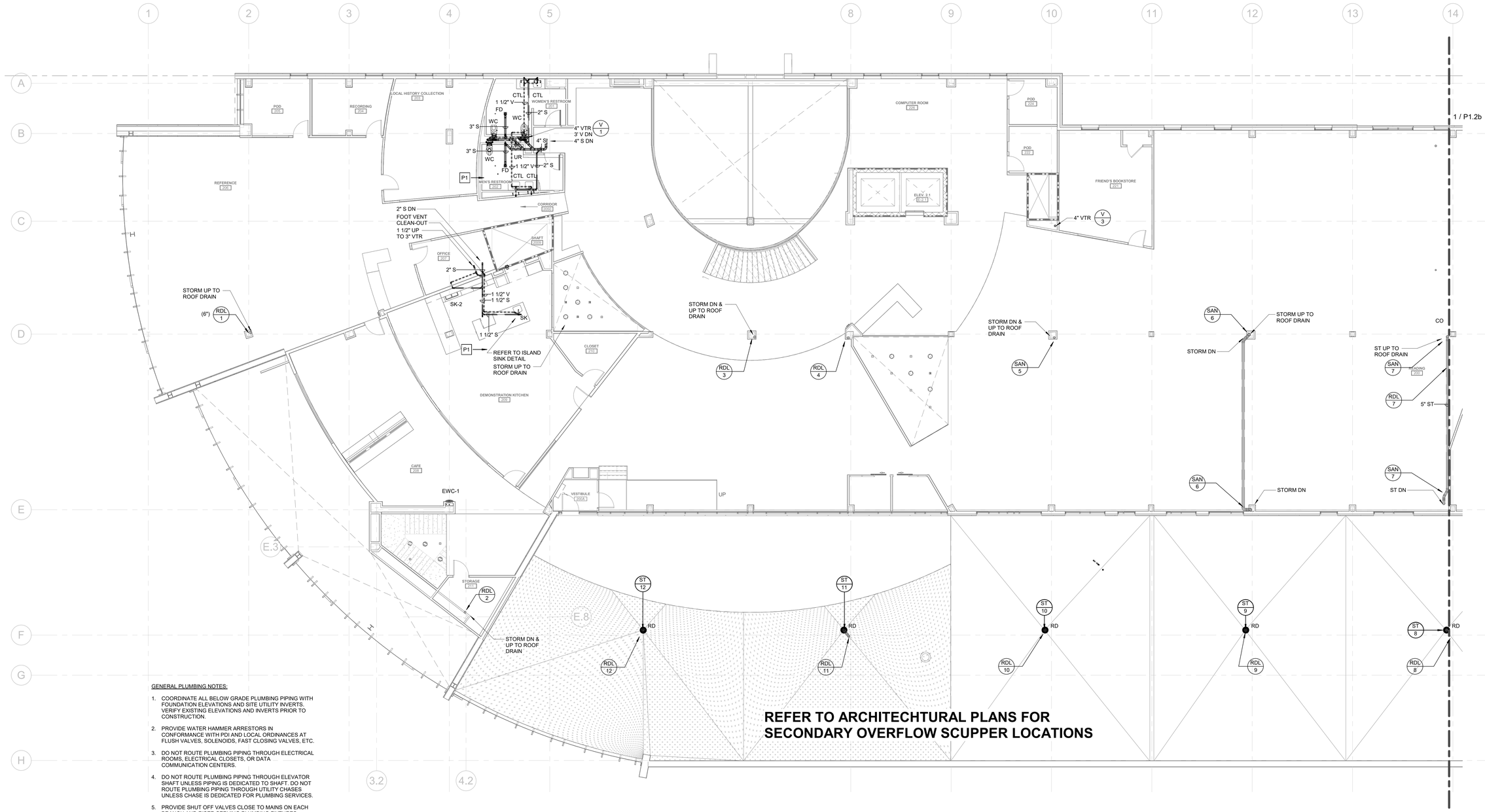

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14. REFER TO NATURAL GAS RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
15. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.
16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

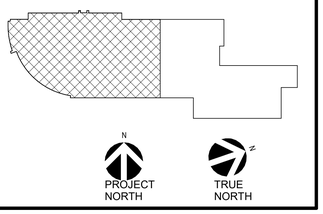
1 2ND FLR- NEW CONSTRUCTION PLAN- SANITARY & STORM - AREA A

1/8" = 1'-0"

PLUMBING KEYNOTES [-] NOTED THUS

P1 INSULATE ALL SANITARY AND DOMESTIC WATER PIPING ABOVE THE BATHROOM CEILING

KEY PLAN



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SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- SANITARY & STORM

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P1.2a

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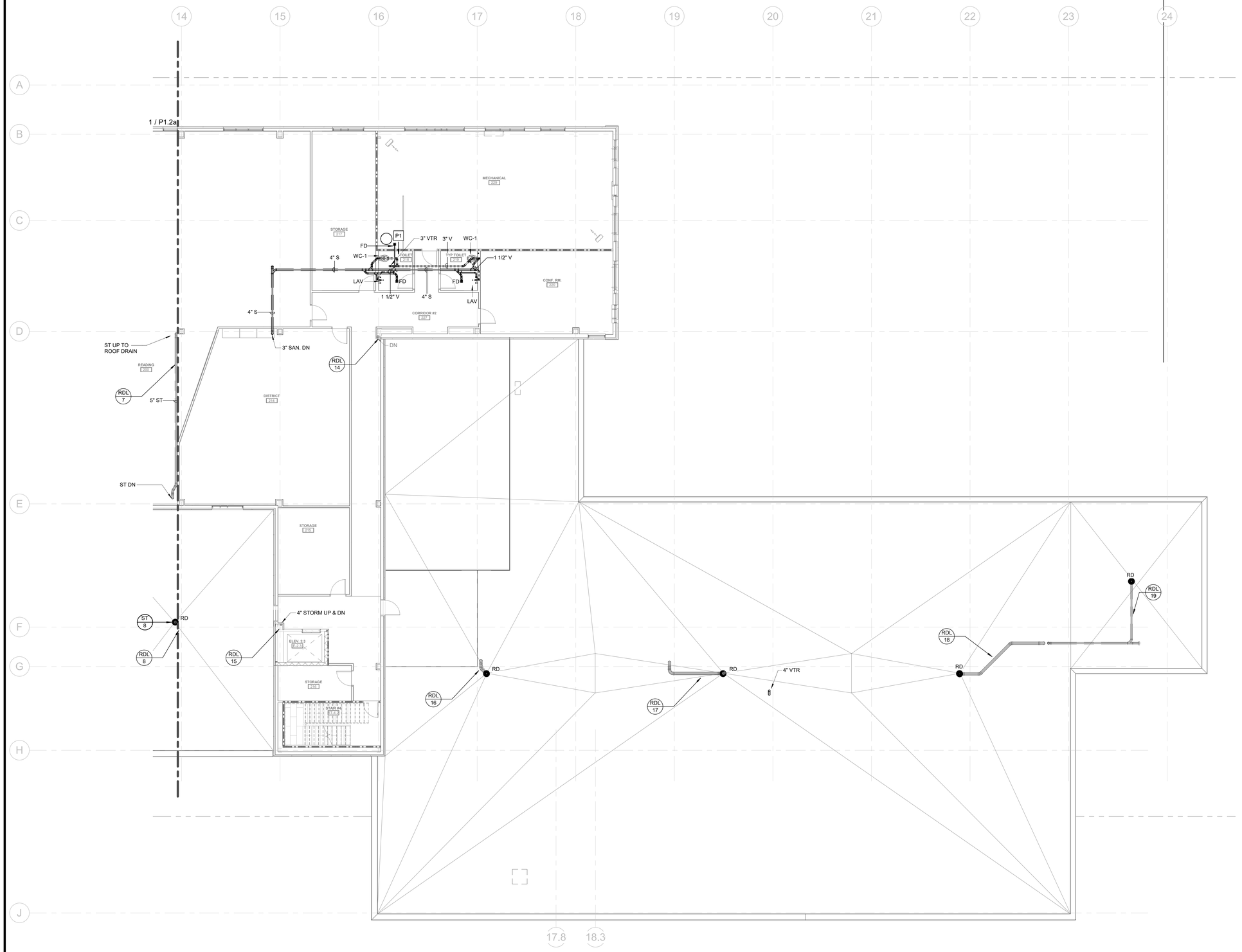


1 2ND FLR- NEW CONSTRUCTION PLAN- SANITARY & STORM - AREA B
1/8" = 1'-0"

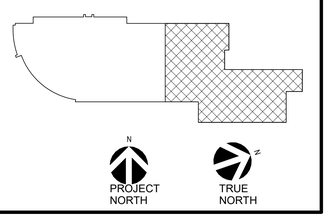
GENERAL PLUMBING NOTES:

1. COORDINATE ALL BELOW GRADE PLUMBING PIPING WITH FOUNDATION ELEVATIONS AND SITE UTILITY INVERTS. VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
2. PROVIDE WATER HAMMER ARRESTORS IN CONFORMANCE WITH PDI AND LOCAL ORDINANCES AT FLUSH VALVES, SOLENOIDS, FAST CLOSING VALVES, ETC.
3. DO NOT ROUTE PLUMBING PIPING THROUGH ELECTRICAL ROOMS, ELECTRICAL CLOSETS, OR DATA COMMUNICATION CENTERS.
4. DO NOT ROUTE PLUMBING PIPING THROUGH ELEVATOR SHAFT UNLESS PIPING IS DEDICATED TO SHAFT. DO NOT ROUTE PLUMBING PIPING THROUGH UTILITY CHASES UNLESS CHASE IS DEDICATED FOR PLUMBING SERVICES.
5. PROVIDE SHUT OFF VALVES CLOSE TO MAINS ON EACH BRANCH AND RISER SERVING PLUMBING FIXTURES, CASEWORK OR EQUIPMENT. PROVIDE SHUT OFF VALVES ON EACH WATER SUPPLY TO PLUMBING FIXTURES THAT DO NOT HAVE SUPPLY STOPS. PROVIDE ACCESS PANELS FOR ALL VALVES.
6. PROVIDE CLOSED CELL MOLDED VINYL INSULATION ON EXPOSED ADA LAVATORY DRAINS, TRAPS, AND SUPPLIES.
7. COORDINATE LOCATIONS OF FLOOR DRAINS WITH ARCHITECTURAL PLANS.
8. PROVIDE CLEANOUTS AT THE BASE OF ALL RAINWATER CONDUCTORS AND SANITARY WASTE STACKS, AT EVERY CHANGE IN DIRECTION AND 50'-0" ON CENTER FOR STRAIGHT LENGTHS.
9. PROVIDE VENT LIMITERS ON ALL NATURAL GAS PRESSURE REGULATORS.
10. THE CONTRACTOR SHALL PROVIDE BALANCING VALVES ON ALL BRANCHES OF THE DOMESTIC HOT WATER RETURN SYSTEM, BALANCE THE SYSTEM, AND PROVIDE BALANCING REPORT TO THE OWNER/ENGINEER FOR RECORD. ALL HOT WATER BALANCING VALVES SHALL BE SET TO 1 GPM UNLESS OTHERWISE NOTED.
11. PROVIDE LOW POINT DRAIN VALVES WITH HOSE CONNECTIONS ON EACH FLOOR. LOCATE WHERE SERVICE MAINS CONNECT TO RISERS IN VALVE CLOSETS OR JANITOR'S CLOSETS. PROVIDE BLUE AND RED CIELING MARKERS ON DROP CIELINGS.
12. REFER TO DOMESTIC WATER AND SANITARY RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
13. REFER TO STORM WATER RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
14. REFER TO NATURAL GAS RISER DIAGRAMS FOR ADDITIONAL PIPE SIZE INFORMATION.
15. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.
16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

PLUMBING KEYNOTES [-] NOTED THUS

P1 INSULATE ALL SANITARY AND DOMESTIC WATER PIPING ABOVE THE BATHROOM CEILING

KEY PLAN



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05/05/2026

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SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- SANITARY & STORM

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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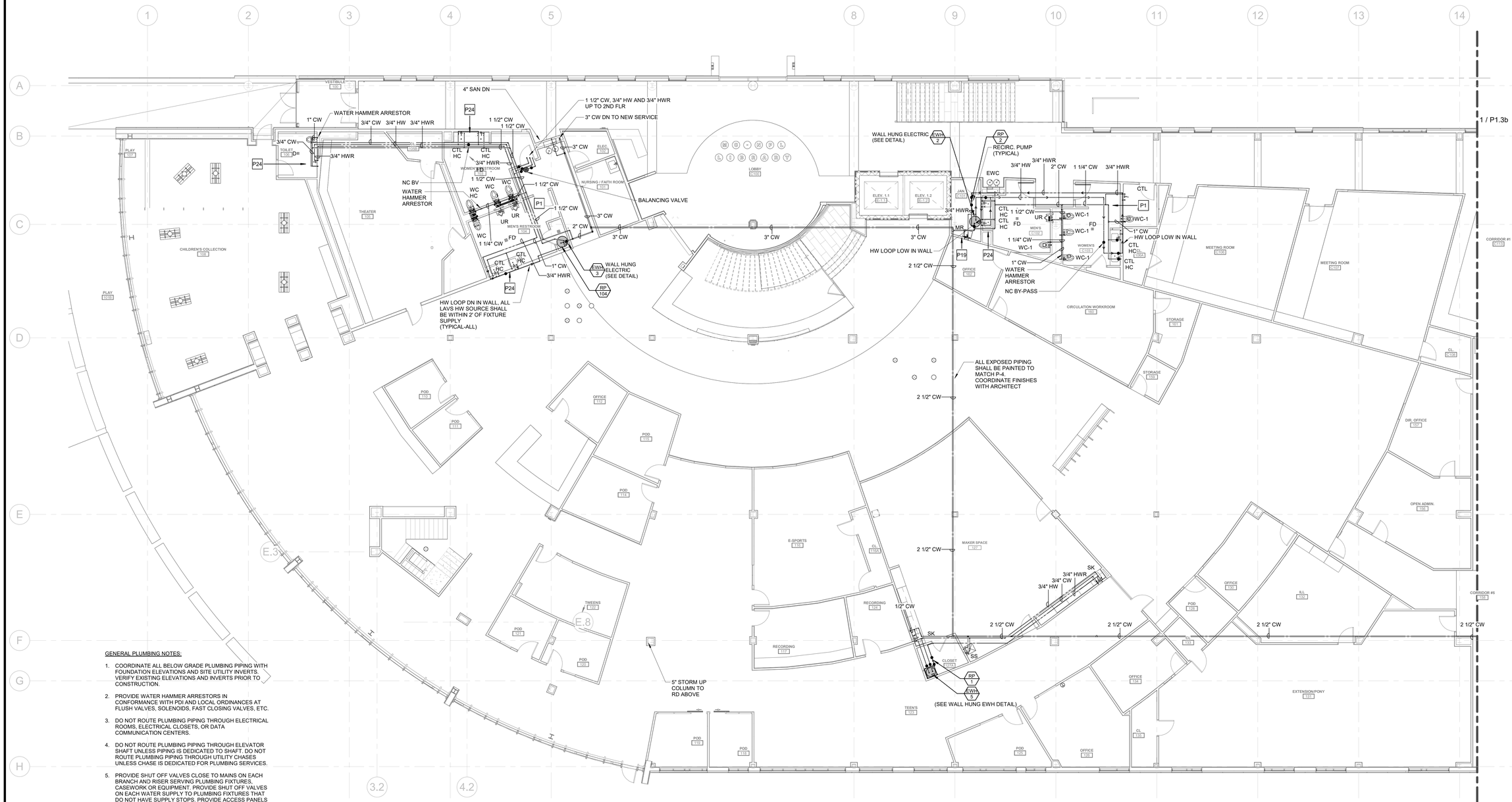

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8. PROVIDE CLEANOUTS AT THE BASE OF ALL RAINWATER CONDUCTORS AND SANITARY WASTE STACKS, AT EVERY CHANGE IN DIRECTION AND 50'-0" ON CENTER FOR STRAIGHT LENGTHS.
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16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

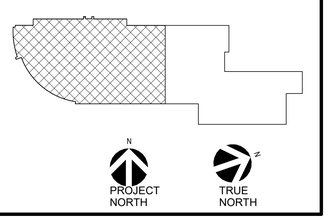
1 1ST FLOOR- NEW CONSTRUCTION PLAN- DOMESTIC WATER & GAS - AREA A

1/8" = 1'-0"

PLUMBING KEYNOTES [-] NOTED THUS

P1 INSULATE ALL SANITARY AND DOMESTIC WATER PIPING ABOVE THE BATHROOM CEILING
P19 PROVIDE CHECK VALVES ON ALL MOP RECEPTOR HOT & COLD WATER SUPPLY PIPING TO PREVENT CROSSCONNECTION
P24 PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVS

KEY PLAN



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FIRST FLOOR NEW CONSTRUCTION PLAN AREA A-DOMESTIC WATER & GAS

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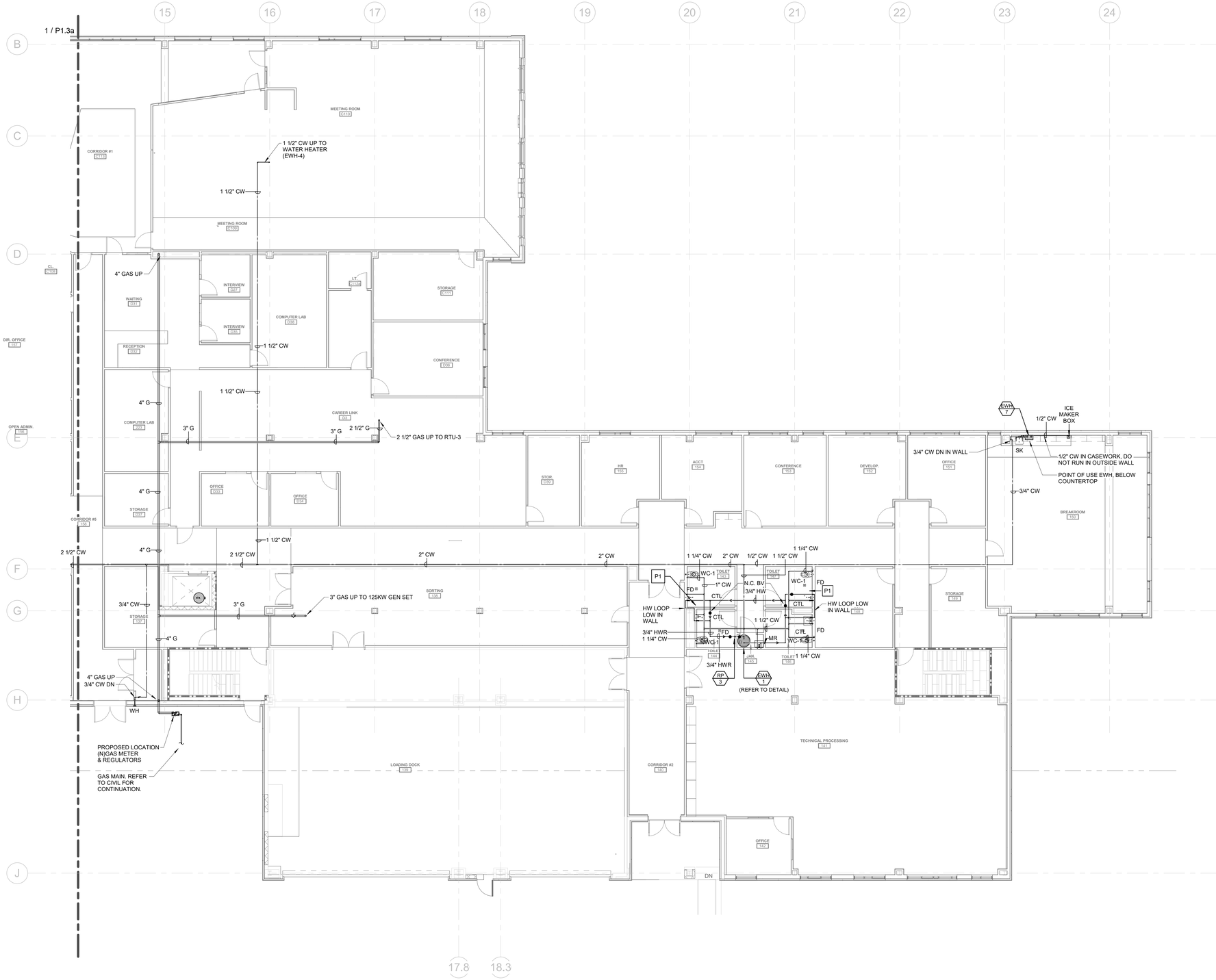

1 1ST FLOOR- NEW CONSTRUCTION PLAN- DOMESTIC WATER & GAS - AREA B
1/8" = 1'-0"

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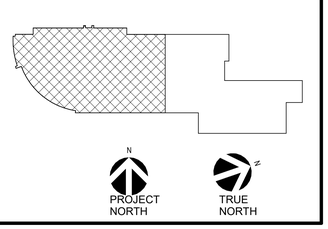
PLUMBING KEYNOTES [-] NOTED THUS

P1 INSULATE ALL SANITARY AND DOMESTIC WATER PIPING ABOVE THE BATHROOM CEILING

KEY PLAN



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FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- DOMESTIC WATER & GAS

NO.	DESCRIPTION	DATE
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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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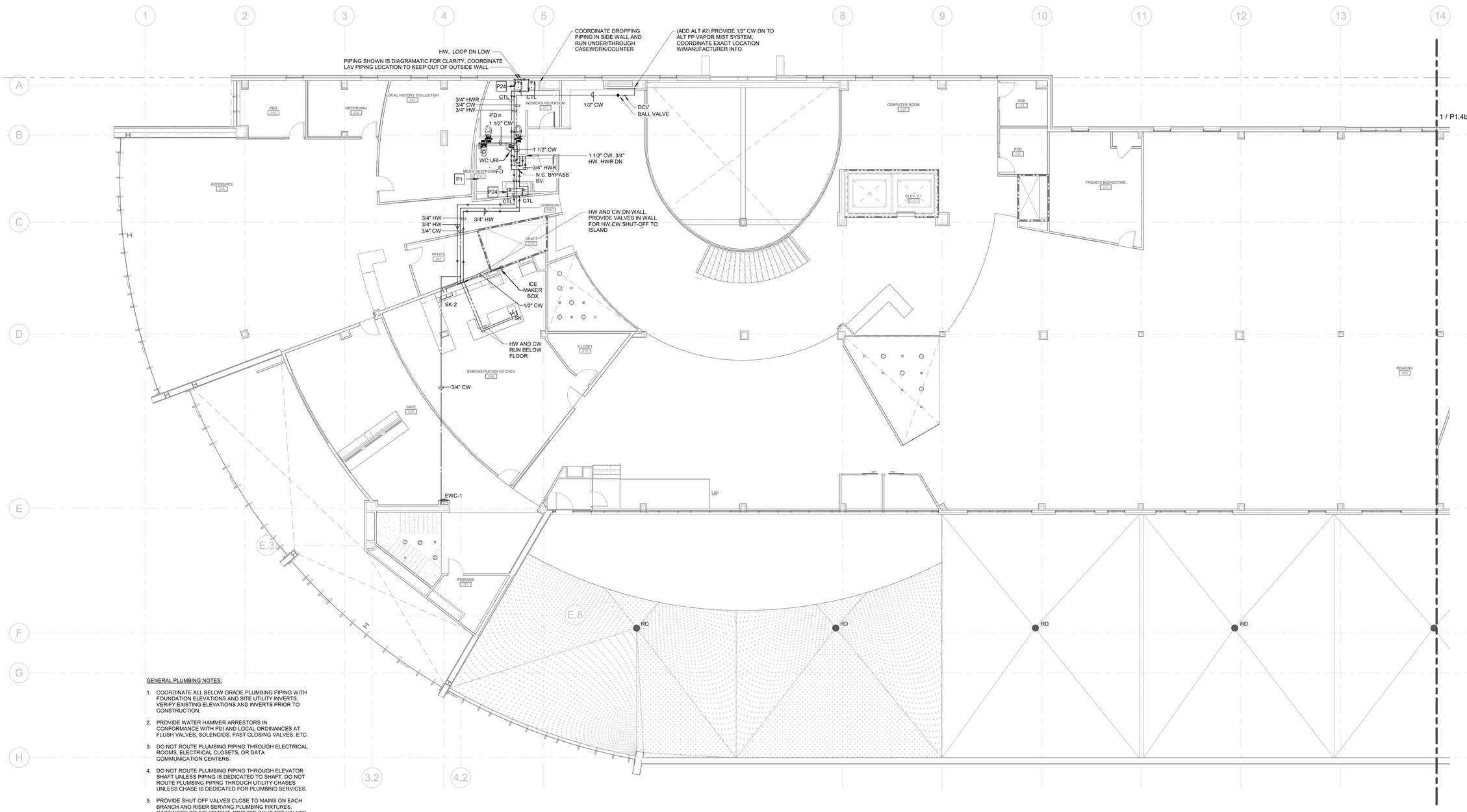

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16. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

1 2ND FLR- NEW CONSTRUCTION PLAN- DOMESTIC WATER & GAS- AREA A

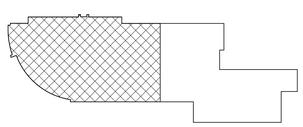
1/8" = 1'-0"

PLUMBING KEYNOTES [-] NOTED THUS

P1 INSULATE ALL SANITARY AND DOMESTIC WATER PIPING ABOVE THE BATHROOM CEILING

P24 PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVS

KEY PLAN



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SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- DOMESTIC WATER & GAS

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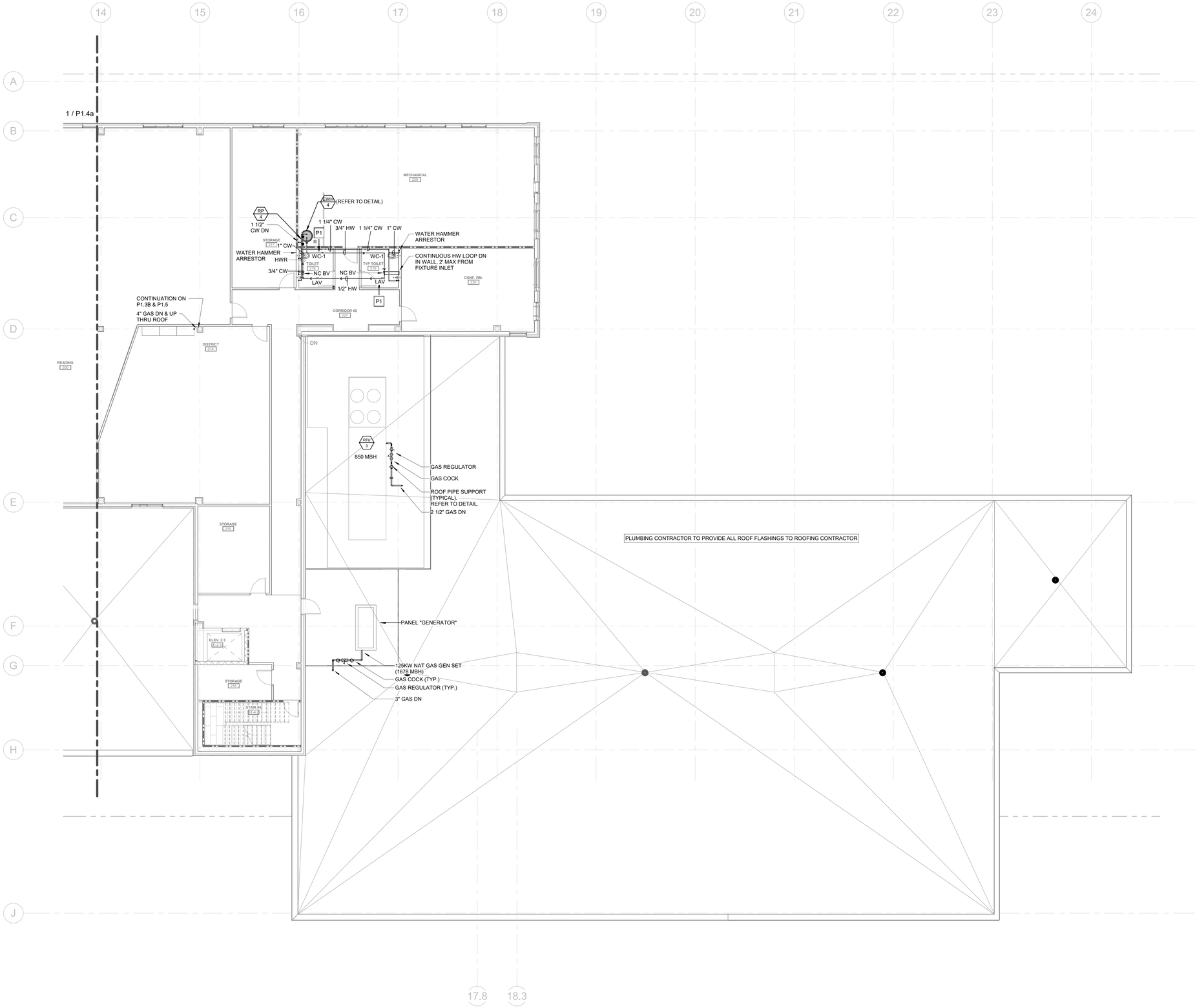

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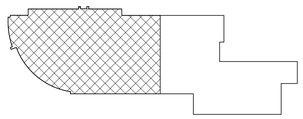

PROJECT NORTH

TRUE NORTH

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SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- DOMESTIC WATER & GAS

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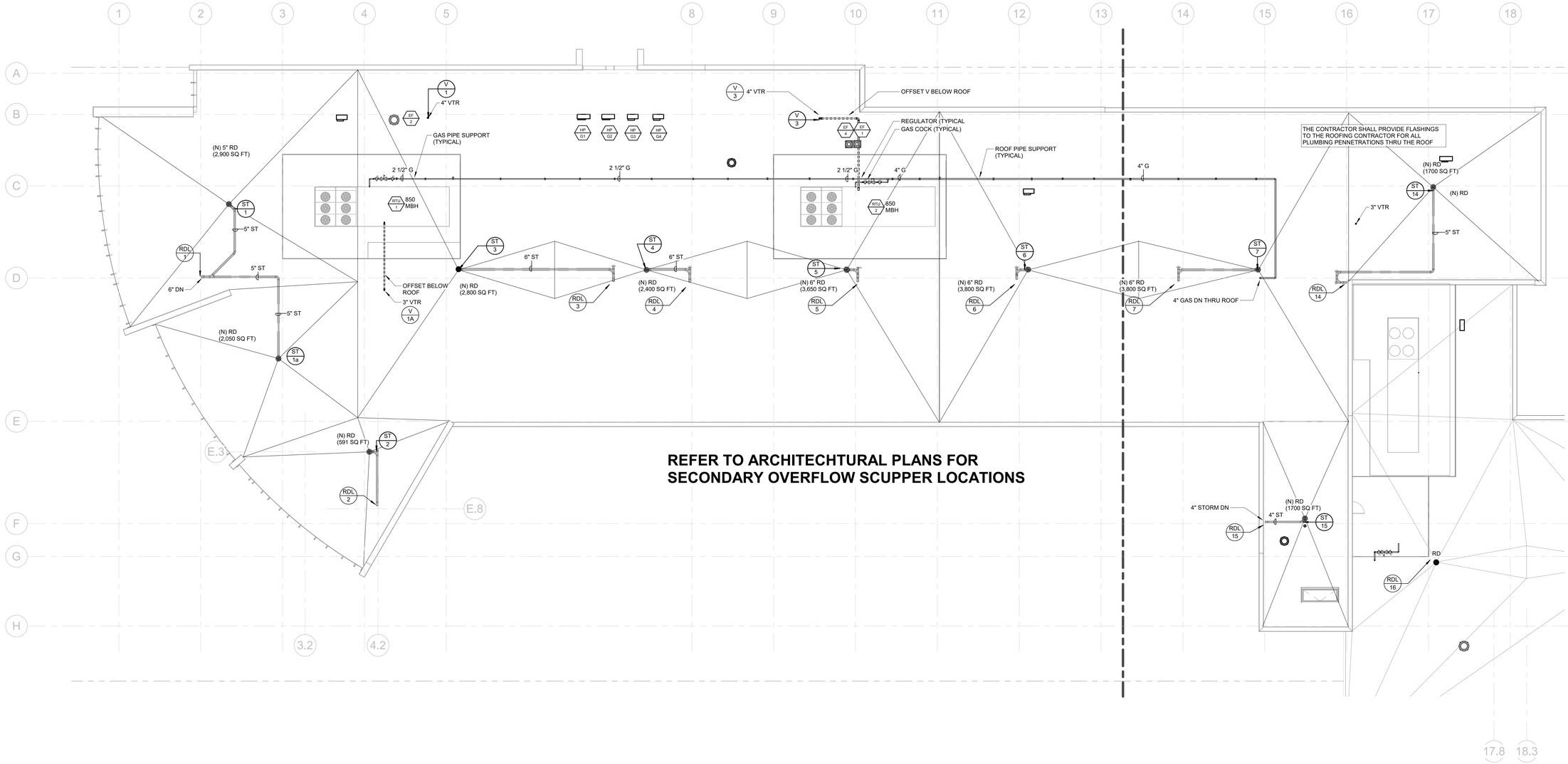


REFER TO ARCHITECHTURAL PLANS FOR SECONDARY OVERFLOW SCUPPER LOCATIONS

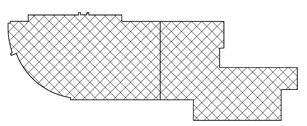
1 ROOF PLAN - PLUMBING

3/32" = 1'-0"

PLUMBING ROOF NOTES

1. COORDINATE LOCATIONS OF ROOF DRAINS WITH ARCHITECTURAL PLANS.
2. ALL VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10' FROM OUTSIDE AIR INTAKES.
3. ALL VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 6' FROM PARAPET OR ADJOINING BUILDING.
4. THE ROOF VENTS SHALL BE TERMINATED NOT LESS THAN 2' ABOVE THE ROOF. WHERE A ROOF IS TO BE USED FOR ASSEMBLY OR AS A PROMENADE, OBSERVATION DECK, SUNBATHING DECK, OR SIMILAR PURPOSES, OPEN VENT PIPES SHALL TERMINATE NOT LESS THAN 7' ABOVE THE ROOF.

KEY PLAN



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ROOF PLAN NEW CONSTRUCTION - PLUMBING

NO.	DESCRIPTION	DATE
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

P1.5

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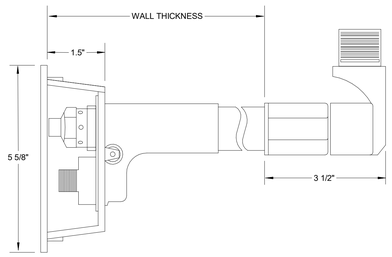
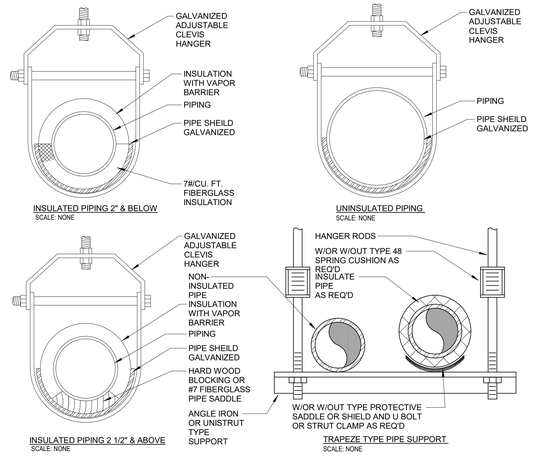
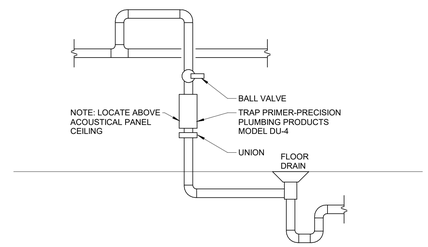


1 WALL HYDRANT DETAIL
SCALE: NONE



NOTES:
1. USE TRAPEZE PIPE SUPPORT FOR 3 OR MORE PARALLEL PIPES.
2. SIZE RODS, SPRING CUSHION, AND HORIZONTAL MEMBER APPROVED TO SATISFY LOAD REQUIREMENT WITH SAFETY FACTOR OF 5.
3. REFER TO SPECIFICATIONS FOR CLAMP SPACING.
4. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.

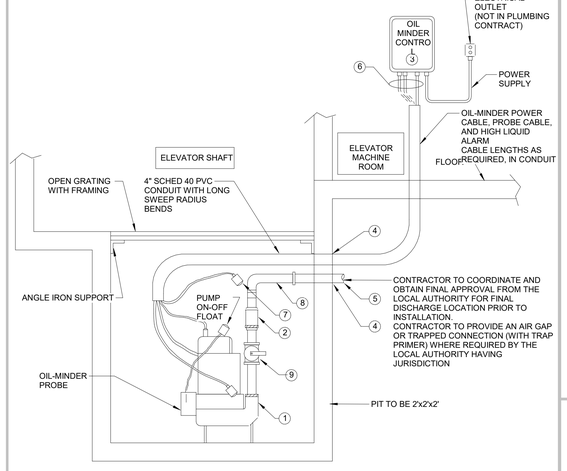
2 PIPE HANGER DETAILS - NEW
SCALE: NONE



3 TRAP PRIMER DETAIL (TP-1)
SCALE: NONE

—W—	WATER SERVICE		RELIEF VALVE
— – —	DOM. COLD WATER		CHECK VALVE
— – —	DOM. HOT WATER		SHUT-OFF VALVE
— – –	DOM. HOT WATER RETURN		STRAINER W/ BLOW OFF VALVE
———	SOIL, WASTE		BALANCING VALVE
— – –	VENT		UNION
— — —	STORM		PIPE REDUCER
—G—	GAS		PIPE INCREASER
—F—	SPRINKLER SERVICE		PIPE FLEXIBLE CONNECTION
BFP	BACK FLOW PREVENTER		GATE VALVE
BWV	BACKWATER VALVE		BALL VALVE
CO	CLEAN OUT		BALL VALVE
DS	DOWNSPOUT		GAS COCK/GAS RATED BALL VALVE
DSP	DRY STANDPIPE		BUTTERFLY VALVE
DWR	DOMESTIC WATER RISERS		PLUG VALVE
FHC	FIRE HOSE CABINET		PRESSURE REDUCING VALVE
FVC	FIRE VALVE CABINET		DOUBLE CHECK BACKFLOW PREVENTER
FU	FIXTURE UNIT		RPZ TYPE BACKFLOW PREVENTER
GWH	GAS WATER HEATER		MANUAL AIR VENT
I.E.	INVERT ELEVATION	WH	WALL HYDRANT
PRV	PRESS. REDUCING VALVE	HB	HOSE BIBB
RWC	RAIN WATER CONDUCTOR	FD	FLOOR DRAIN
SP	WET STANDPIPE	RD	ROOF DRAIN
SF	SQUARE FEET	DD	DECK DRAIN
S&VST	SOIL & VENT STACK	OD	OVERFLOW DRAIN
W&VST	WASTE & VENT STACK	AD	AREA DRAIN
VTR	VENT THRU ROOF		NEW CONNECTION TO EXISTING
(E) (N)	EXISTING NEW		CONTINUATION/BREAK
—o—	PIPE DOWN		
—o—	PIPE UP		

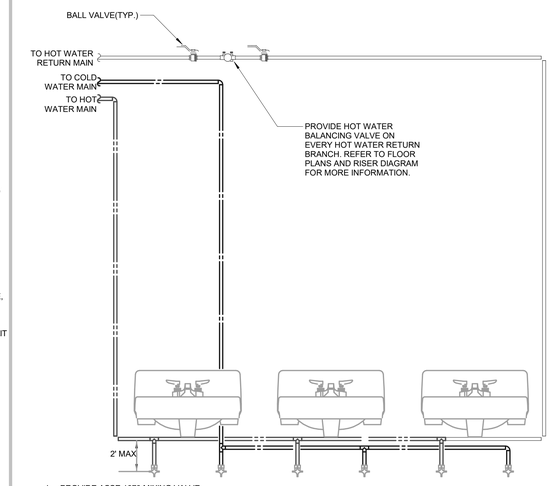
4 PLUMBING SYMBOLS AND ABBREVIATIONS
SCALE: NONE



1. STANCOR MODEL SE-100 SUBMERSIBLE EFFLUENT PUMP .5HP, 115 VOLT, 3600 RPM, 2" DISCHARGE CONNECTION, 50 GPM AT 20 FT. HEAD.
2. STANCOR CHECK VALVE.
3. STANCOR OIL-MINDER 115V, 1 PHASE CONTROL SYSTEM WITH OPTIONAL BUILT-IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID CONDITION. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR REMOTE ALARM LOCATION.
4. WATERTIGHT SLEEVE
5. ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
6. OIL MINDER POWER CABLE, PROBE CABLE, AND HIGH LIQUID ALARM CABLE
7. HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING
8. PROVIDE UNION AND SHUT-OFF IN DISCHARGE
9. PROVIDE HOT WATER BALANCING VALVE ON EVERY HOT WATER RETURN BRANCH. REFER TO FLOOR PLANS AND RISER DIAGRAM FOR MORE INFORMATION.

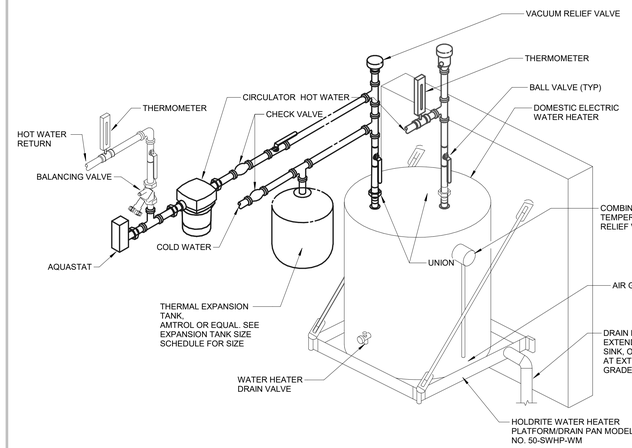
NOTES:
1. PROVIDE A MINIMUM OF 5 FT. EXTRA OF EACH CABLE (SLACK) ROLLED AND CLAMPED TO THE DISCHARGE PIPE TO ALLOW FOR THE REMOVAL OF THE PUMP FROM THE PIT.
2. ITEMS 1,2,3,7 ARE STANCOR PRODUCTS WHICH ARE TO BE PURCHASED & INSTALLED BY THE CONTRACTOR.
3. TANCOR INC. (203)268-7513
4. EQUIVALENTS BY GOULDS "CENTRIPRO" PUMP, ZOELLER PUMP CO.
5. COORDINATE WORK WITH ELECTRICAL CONTRACTOR.

7 SUMP PUMP DIAGRAM-HYDRAULIC ELEVATOR DIAGRAM
SCALE: NONE



1. PROVIDE ASSE 1070 MIXING VALVE.
2. HOT WATER CONNECTION FOR PUBLIC LAVATORIES TO BE NO FURTHER THAN 2 FEET FROM HOT WATER SOURCE.
3. REFER TO IECC FOR MORE INFORMATION ON MAXIMUM HOT WATER PIPING VOLUME AND LENGTHS.

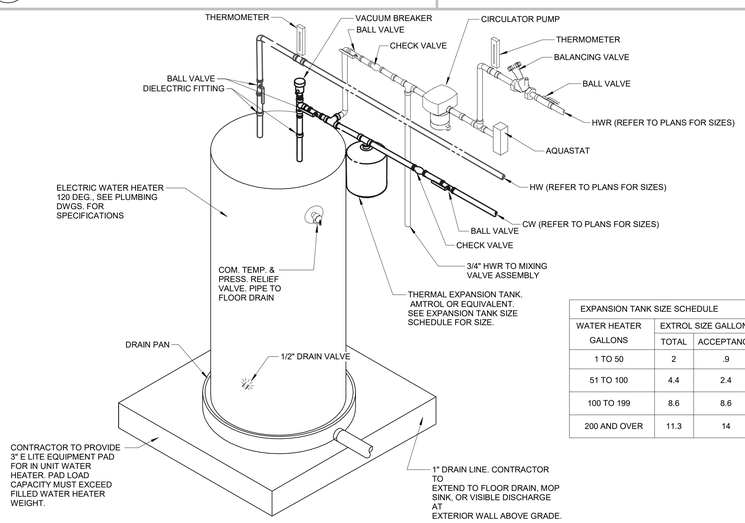
5 PUBLIC SINK CONNECTION DETAIL
SCALE: NONE



EXPANSION TANK SIZE SCHEDULE

WATER HEATER GALLONS	EXTROL SIZE GALLONS		DIAMETER	HEIGHT	CONN. SIZE
	TOTAL	ACCEPTANCE			
1 TO 50	2	.9	8"	12 1/2"	3/4"
51 TO 100	4.4	2.4	11"	15"	3/4"
100 TO 199	8.6	8.6	11"	24 3/4"	3/4"
200 AND OVER	11.3	14	15 3/8"	23 7/8"	1"

6 WALL HUNG WATER HEATER DETAIL
SCALE: NONE



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200 AND OVER	11.3	14	15 3/8"	23 7/8"	1"

8 ELECTRIC WATER HEATER DETAIL
SCALE: NONE

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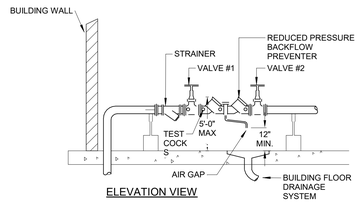
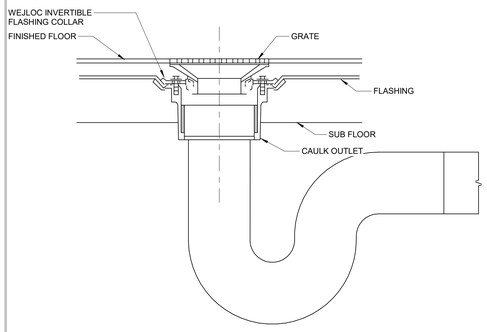


ELEVATION VIEW

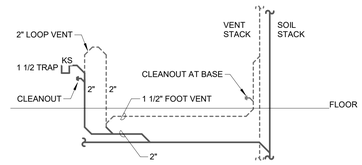
NOTES:
1. BACKFLOW PREVENTERS TO BE SET A MINIMUM OF 12" FROM FLOOR TO THE LOWEST PART OF DEVICE. AND A MAXIMUM OF 5'-0" FROM THE FLOOR TO THE TOP OF DEVICE. AND 12" FROM ANY WALL.
2. CONTRACTOR TO PROVIDE PRESSURE REDUCING VALVE IF PRESSURE EXCEEDS 80 PSI.
3. CONTRACTOR TO COORDINATE INSTALLATION REQUIREMENTS WITH LOCAL UTILITY COMPANY.

1 REDUCED PRESSURE TYPE BACKFLOW PREVENTOR DETAIL
12" = 1'-0"

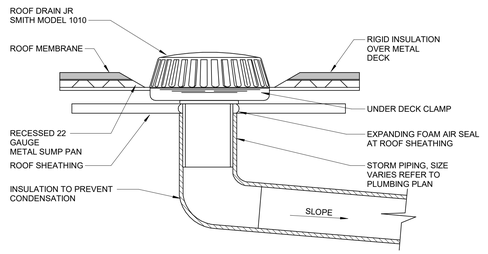


NOTE:
1. CONTRACTOR TO PROVIDE TRAP PRIMER. REFER TO TRAP PRIMER DETAIL FOR MORE INFORMATION.

2 FLOOR DRAIN DETAIL
SCALE: NONE

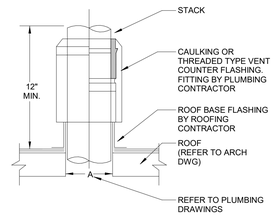


3 ISLAND SINK DETAIL
SCALE: NONE



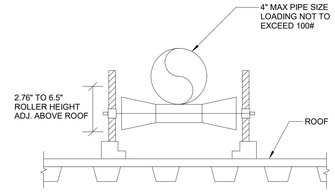
NOTE:
1. PROVIDE A 2"-6" DAM FOR ALL OVERFLOW DRAINS.

4 ROOF DRAIN DETAIL
12" = 1'-0"



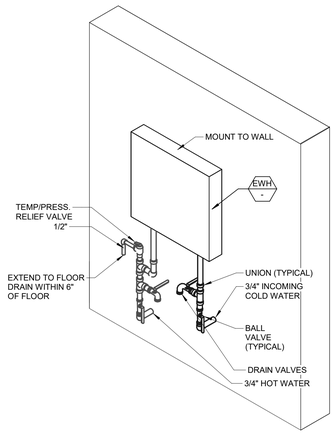
NOTES:
FITTING IS OF THE COUPLING TYPE THAT PERMITS STACK EXTENSION TO THE DESIRED HEIGHT.
COUNTER FLASHING FITTING. J.R. SMITH FIG. 1740C OR 1750T.

5 ROOF VENT DETAIL
12" = 1'-0"



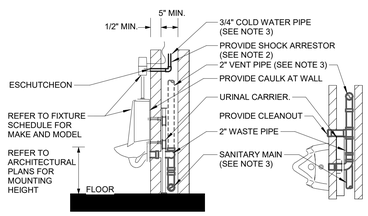
GAS PIPING NOTE:
1. SUPPORT AS MANUFACTURED BY MIRO INDUSTRIES. MODEL 4-RAH (IF NO ADJUSTMENTS IS REQUIRED AND 2" PIPE CLEARANCE IS ACCEPTABLE USE MODEL 4R) MAX SPACING OF SUPPORTS, 10'-0".
2. ALL PIPING AND HANGERS SHALL BE CLEAN AND FREE OF FOREIGN MATTER AND COATED WITH RED. LEAD PIGMENTED PRIMER AND TWO COATS OF HIGH GLOSS ALKTO ENAMEL (COLOR BY ARCHITECT).
3. PROVIDE SUPPORT AT 10'-0" O.C. FOR 1 1/4" AND LARGER AND AT ALL FITTINGS.
4. PROVIDE SUPPORT AT 8'-0" O.C. FOR 3/4" AND 1" AND AT ALL FITTINGS.
5. PROVIDE SUPPORT AT 6'-0" O.C. FOR 1/2" AND AT ALL FITTINGS.
6. PIPE SHALL BE MOUNTED NO LESS THAN 6" ABOVE GRADE OR ROOF SURFACE.

6 GAS PIPE SUPPORT ON ROOF 4" OR SMALLER PIPE SIZE
SCALE: NONE



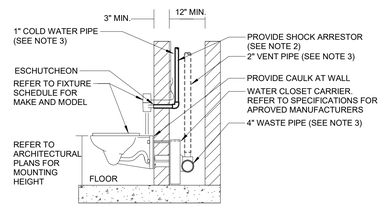
ELECTRIC TANKLESS WATER HEATER – 240V, 36.0 KW, 6.0 GRPM AT 41°F RISE, 4.0 GPM @ 62°F RISE, 5 YEAR HEATING CHAMBER WARRANTY. RHEEM "RTEX-36" SERIES OR PRIOR APPROVED EQUAL.

7 ELECTRIC INSTANTANEOUS WATER HEATER DETAIL
12" = 1'-0"



NOTES:
1. COORDINATE ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR FOR HARDWIRED FLUSH VALVES.
2. REFER TO DOMESTIC WATER RISER DIAGRAM FOR SHOCK ARRESTOR LOCATIONS. ALL SHOCK ARRESTORS SHALL BE ACCESSIBLE FOR REPLACEMENT. COORDINATE ACCESS LOCATION WITH ARCHITECT.
3. REFER TO FLOOR PLANS FOR CONTINUATION OF PIPING.
4. PROVIDE CLEANOUT FOR URINAL.
5. COODINATE FINAL CHASE SIZE WITH ARCHITECT.
6. MOUNTING HEIGHT FOR ADA URINALS SHALL BE A MAXIMUM OF 17".
7. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS FOR URINAL CARRIERS.

8 WALL HUNG URINAL DETAIL
12" = 1'-0"



NOTES:
1. COORDINATE ELECTRICAL CONNECTIONS WITH ELECTRICAL CONTRACTOR FOR HARDWIRED FLUSH VALVES.
2. REFER TO DOMESTIC WATER RISER DIAGRAM FOR SHOCK ARRESTOR LOCATIONS. ALL SHOCK ARRESTORS SHALL BE ACCESSIBLE FOR REPLACEMENT. COORDINATE ACCESS LOCATION WITH ARCHITECT.
3. REFER TO FLOOR PLANS FOR CONTINUATION OF PIPING.
4. WALL MATERIAL AND CARRIER CAN AFFECT MINIMUM CHASE SIZE. COODINATE FINAL CHASE SIZE WITH ARCHITECT.
5. MOUNTING HEIGHT FOR ADA WATER CLOSET SHALL BE 17"-19" TO THE TOP OF THE SEAT.

9 WALL HUNG WATER CLOSET DETAIL
12" = 1'-0"

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PLUMBING PUMP SCHEDULE

SYMBOL	TYPE	MANUFACTURER	MODEL	CONFIGURATION	GPM	HEAD	HP	HEADER SIZE	ELECTRICAL			NOTES:
									WATTS	VOLTS	PHASE	
DWB-1	DOMESTIC WATER BOOSTER	PENN PUMP	WPB-60-30-D	DUPLEX	0-130	+30 PSI	2	3"		208/240	3	REFER TO DETAIL.
SP-1	ELEVATOR SUMP	STANCOR	SE-50	-	50	20	0.5	-			1	
ESP-2	ELEVATOR SUMP	STANCOR	SE-100	-	100	12	1.0	-			1	
F-1	FIRE PUMP	AURORA		VERTICAL IN-LINE	1,000 GPM		25			208/240	3	
RP-1	HOT WATER RECIRCULATION PUMP	TACO	0015E3	INLINE	4	12 FT	-	-	44	115	1	HIGH EFFICIENCY CIRCULATOR. SET TO LOWEST MODE REQUIRED TO BALANCE SYSTEM. REFER TO DETAIL.
RP-2	HOT WATER RECIRCULATION PUMP	BELL & GOSSETT	PL-55	INLINE	20	36 FT	2/5	-	-	115/230	1	REFER TO DETAIL.
RP-3	HOT WATER RECIRCULATION PUMP	BELL & GOSSETT	PL-55	INLINE	20	36 FT	2/5	-	-	115/230	1	REFER TO DETAIL.
RP-4	HOT WATER RECIRCULATION PUMP	BELL & GOSSETT	PL-55	INLINE	20	36 FT	2/5	-	-	115/230	1	REFER TO DETAIL.
RP-104	HOT WATER RECIRCULATION PUMP	GRUNDFOS	MAGNA3	INLINE		FT		-	-	115/230	1	REFER TO DETAIL.
JP-1	JOCKEY PUMP	PENTAIR	PVM1-6	INLINE	10 GPM	50 PSI	0.75 HP			460	3	COORDINATE ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR

WATER HEATER SCHEDULE

TAG	LOCATION	TYPE	MANUFACTURER	MODEL NO.	GALLON STORAGE	ENERGY FACTOR	THERMAL EFFICIENCY	RECOVERY 90°F RISE	BTU INPUT	ELECTRICAL			NOTES:
										WATTS	VOLTS	PHASE	
EWH-1	JANITOR CLOSET	ELECTRIC	BRADFORD WHITE	LE250S3-3	50	-	-	21 GAL	-	4500	-	-	22" JACKET DIAMETER, COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR.
EWH-2	JANITOR CLOSET	ELECTRIC	BRADFORD WHITE	RE250LN6	47	.92	-	21 GAL	-	4500	-	-	LOWBOY, 26" JACKET DIAMETER, COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR.
EWH-3	JANITOR CLOSET	ELECTRIC	BRADFORD WHITE	RE250LN6	47	.92	-	21 GAL	-	4500	-	-	LOWBOY, 26" JACKET DIAMETER, COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR.
EWH-4	MECHANICAL ROOM	ELECTRIC	BRADFORD WHITE	LE250S3-3	50	.92	-	21 GAL	-	4500	-	-	22" JACKET DIAMETER, COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR.
EWH-5	DWELLING UNIT	ELECTRIC	BRADFORD WHITE	RE230L6	28	.92	-	21 GAL	-	4500	-	-	LOWBOY, 22" JACKET DIAMETER, COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR.
EWH-7	BREAKROOM	ELECTRIC	EEMAX	FLOWCO SPEX4208	-	.97	-	-	-	4.8 KW	208	1	POINT OF USE WATER HEATER, 20 AMP, ENERGY STAR COMPLIANT.
EWH-8	GRND TOILET RM	ELECTRIC	EEMAX	FLOWCO SPEX4208	-	.97	-	-	-	4.8 KW	208	1	POINT OF USE WATER HEATER, 20 AMP, ENERGY STAR COMPLIANT.
EWH-9	CARREER LINK	ELECTRIC	EEMAX	FLOWCO SPEX4208	-	.97	-	-	-	4.8 KW	208	1	POINT OF USE WATER HEATER, 20 AMP, ENERGY STAR COMPLIANT.
EWH-10	CAREER LINK	ELECTRIC	EEMAX	FLOWCO SPEXX420	-	-	-	-	-	4.8 KW			
EWH-11	CAREER LINK	ELECTRIC	EEMAX	FLOWCO SPEXX420	-	-	-	-	-	4.8 KW			

PLUMBING FIXTURE SCHEDULE

1. ALL FIXTURES AND TRIM TO BE LEAD FREE
2. ALL HANDICAP FIXTURES TO BE INSTALLED ADA COMPLIANT WITH OFFSET WASTE WHERE REQUIRED AND INCLUDING UNDERFIXTURE PROTECTIVE KIT.
3. REFER TO SPECIFICATION FOR ADDITIONAL FIXTURE REQUIREMENTS AND ALTERNATE MFR.'S.
4. ALL TRIM TO BE CHROME PLASTED CAST BRASS.
5. LAVATORIES IN PUBLIC TOILETS TO BE FURNISHED WITH GRID STRAINERS. FIXTURES IN PRIVATE TOILETS AND LOCKER ROOMS SHALL BE FURNISHED WITH POP-UP DRAINS.
6. TRAPS FOR LAV./SINKS SHALL BE SEMI-CAST BRASS/17 GAUGE WASTE 1 1/4"x1 1/2" OR 1 1/2" DEPENDING ON FIXTURE OUTLET.
7. ALL FIXTURES TO BE FURNISHED WITH INDIVIDUAL FIXTURE STOP VALVES. IN PUBLIC AREAS VALVES SHALL BE LOOSE KEY TYPE.
8. ALL WALL HUNG FIXTURES TO BE PROVIDED WITH SUITABLE FLOOR MOUNTED SUPPORTS.
9. WALL HUNG WATER CLOSETS SHALL BE PROVIDED WITH COMBINATION CARRIER WITH HORIZONTAL OR VERTICAL FITTING TO SUIT PIPING ARRANGEMENT.
10. VENTS NOTED ARE FOR INDIVIDUAL FIXTURE VENTS ONLY.
11. WATER CLOSETS LOCATED IN PUBLIC AREAS SHALL BE PROVIDED WITH OPEN FRONT SEATS.
12. COORDINATE WITH ARCHITECT FOR BLOCKING REQUIREMENTS.
13. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.

TAG	DESCRIPTION	BASIS OF DESIGN (APPROVED MFR.'S ARE LISTED IN SPECIFICATIONS)					COLOR/FINISH	FLOW (GPF)	MAP	ROUGH IN				FIXTURE UNITS			MEA NOTES:
		MANUFACTURER	MODEL NO.	FAUCET OR FLUSH VALVE	CARRIER OR SUPPORT	SENSOR OPERATED				CW	HW	SAN	SWV	CW	HW	DFU	
	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>
CTL	LAVATORY	KOHLER	PINIOR K-2035-4	SLOAN SF2350-BDT	WALL MOUNTED	-	WHITE	0.5 GPM	-	1/2"	1/2"	1 1/4"	1 1/4"	1.5	1.5	1	VITREOUS CHINA, ADA COMPLIANT, BELOW DECK THERMOSTATIC MIXING VALVE, POLISHED CHROME FINISH, MULTI-LAMINAR SPRAY, INFARED SENSOR.
CTL HC	COUNTER-TOP LAVATORY	KOHLER	BCHATA K-2608-SU	SLOAN EBF-415	UNDERMOUNT	HARDWIRED	WHITE	0.5 GPM	-	1/2"	1/2"	1 1/4"	1 1/4"	1.5	1.5	1	HARDWIRED, WITH BELOW DECK MANUAL MIXING VALVE. PROVIDE GRIDE STRAINERS FOR ALL PUBLIC LAVATORYS.
EWC	ELECTRIC WATER COOLER	ELKAY	EZSTL8WSVRLK	-	WALL MOUNTED	-	LIGHT GRAY	8 GPH	-	1/2"	-	1 1/4"	1 1/4"	-	-	-	BI-LEVEL WATER COOLER, ELKAY EZH20 BOTTLE FILLING STATION, FLEXIGUARD SAFETY BUBBLER, 115 V, 60 HZ, 6A, ADA COMPLIANT.
EWC-1	ELECTRIC WATER COOLER	ELKAY	EZS8WSLK	-	WALL MOUNTED	-	LIGHT GRAY	8 GPH	-	1/2"	-	1 1/4"	1 1/4"	-	-	-	BOTTLE FILLING STATION, FLEXIGUARD SAFETY BUBBLER, 115 V, 60 HZ, 5A, 370 RATED WATTS, ADA COMPLIANT.
FD	FLOOR DRAIN	J.R. SMITH	2010	-	-	-	-	-	-	-	-	-	2"	2"	-	-	1	PROVIDE TRAP PRIMER, REFER TO SPEC SECTION 22 13 00 FOR MORE INFORMATION
FD-1	FLOOR DRAIN	J.R. SMITH	2210	-	-	-	-	-	-	-	-	-	4"	2"	-	-		MEDIUM DUTY 4" FLOOR DRAIN WITH REMOVEABLE GRATE WITH SEDIMENT BUCKET
ICE MAKER BOX	ICE MAKER BOX	OATEY	38687	-	-	-	WHITE	-	-	-	-	-	-	-	1/2"	-	-	
MR	MOP RECEPTOR	FIAT	MSB2424	FIAT 830-AA	FLOOR MOUNTED	-	WHITE	1.5 GPM	-	1/2"	1/2"	3"	2"	-	-	-	MOLDED STONE MOP SERVICE BASIN, 24"x24"x10", 832-AA HOSE AND BRACKETS, 833-AA SILICONE SEALANT, & BUMPER GUARD
RD	ROOF DRAIN/ OVERFLOW DRAIN	J.R. SMITH	1010	-	ROOF MOUNTED	-	-	-	-	-	-	2",3", 4",5", 6",8"	-	-	-	-	DUAL DRAIN DESIGN, 5" HIGH PRIMARY STRAINER, 6" HIGH OVERFLOW INLET, CAST IRON BODY.
RD-2	ROOF DRAIN	J.R. SMITH	1010	-	ROOF MOUNTED	-	-	-	-	-	-	2",3", 4",5", 6",8"	-	-	-	-	LOW PROFILE DOME.
SK	KITCHEN SINK HANDICAPPED	ELKAY	CROSSTOWN ECTSRAD2522 6TBG	DELTA 19867LF	UNDERMOUNT	-	STAINLESS STEEL	1.5 GPM	-	1/2"	1/2"	1 1/2"	1 1/2"	-	-	2	25"x22"x6", 18 GUAGE 304 STAINLESS STEEL, SINGLE BOWL, REAR CENTER DRAIN, SINGLE LEVER FAUCET, ADA COMPLIANT.
SK-2	KITCHEN SINK HANDICAPPED	ELKAY	LUSTERONE LRAD332255	DELTA 19867LF	UNDERMOUNT	-	STAINLESS STEEL	1.5 GPM	-	1/2"	1/2"	1 1/2"	1 1/2"	-	-	2	33"x22"x5-1/2", 18 GAUGE 304 STAINLESS STEEL, EQUAL DOUBLE BOWL, REAR CENTER DRAIN, SINGLE LEVER FAUCET, ADA COMPLIANT.
SS	SINK	MUSTEE	19CF	-	FLOOR MOUNTED	-	WHITE	1.5 GPM	-	1/2"	1/2"	1 1/2"	1 1/2"	2.25	2.25	2	UTILATUB COMBO LAUNDRY/UTILITY TUB, COMBO PACK W/6" FAUCET,AERATOR AND HOSE, TRAP AND TAILPIECE, DRAIN STOPPER.
UR	URINAL HANDICAPPED	KOHLER	K-4991-ET	ROYAL 186	WALL MOUNTED	HARDWIRED	WHITE	1.0 GPF	-	3/4"	-	2"	2"	5	-	2	VITREOUS CHINA, LOW CONSUMPTION, FLUSHING RIM, INTEGRAL STRAINER, WASHOUT FLUSH ACTION, ADA COMPLIANT (REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT), MANUAL FLUSH VALVE.
WC	WATER CLOSET HANDICAPPED	KOHLER	K-84325	ROYAL 111	CARRIER	-	WHITE	1.6 GPF	-	1"	-	4"	2"	6	-	4	VITREOUS CHINA, ADA COMPLIANT, OPEN FRONT TOILET SEAT, MANUAL FLUSH VALVE..
WC-1	WATER CLOSET HANDICAPPED	KOHLER	K-96057	ROYAL 111	FLOOR MOUNTED	-	WHITE	1.6 GPF	-	1"	-	4"	2"	6	-	4	VITREOUS CHINA, ADA COMPLIANT, OPEN FRONT TOILET SEAT, MANUAL FLUSH VALVE.
WH	WALL HYDRANT	ZURN	Z1305	-	-	-	-	-	-	3/4"	-	-	-	-	-	-	NON-FREEZE WALL HYDRANT, BRONZE CASING, NICKEL BRONZE BOX WITH HINGED COVER AND OPERATING KEY LOCK.

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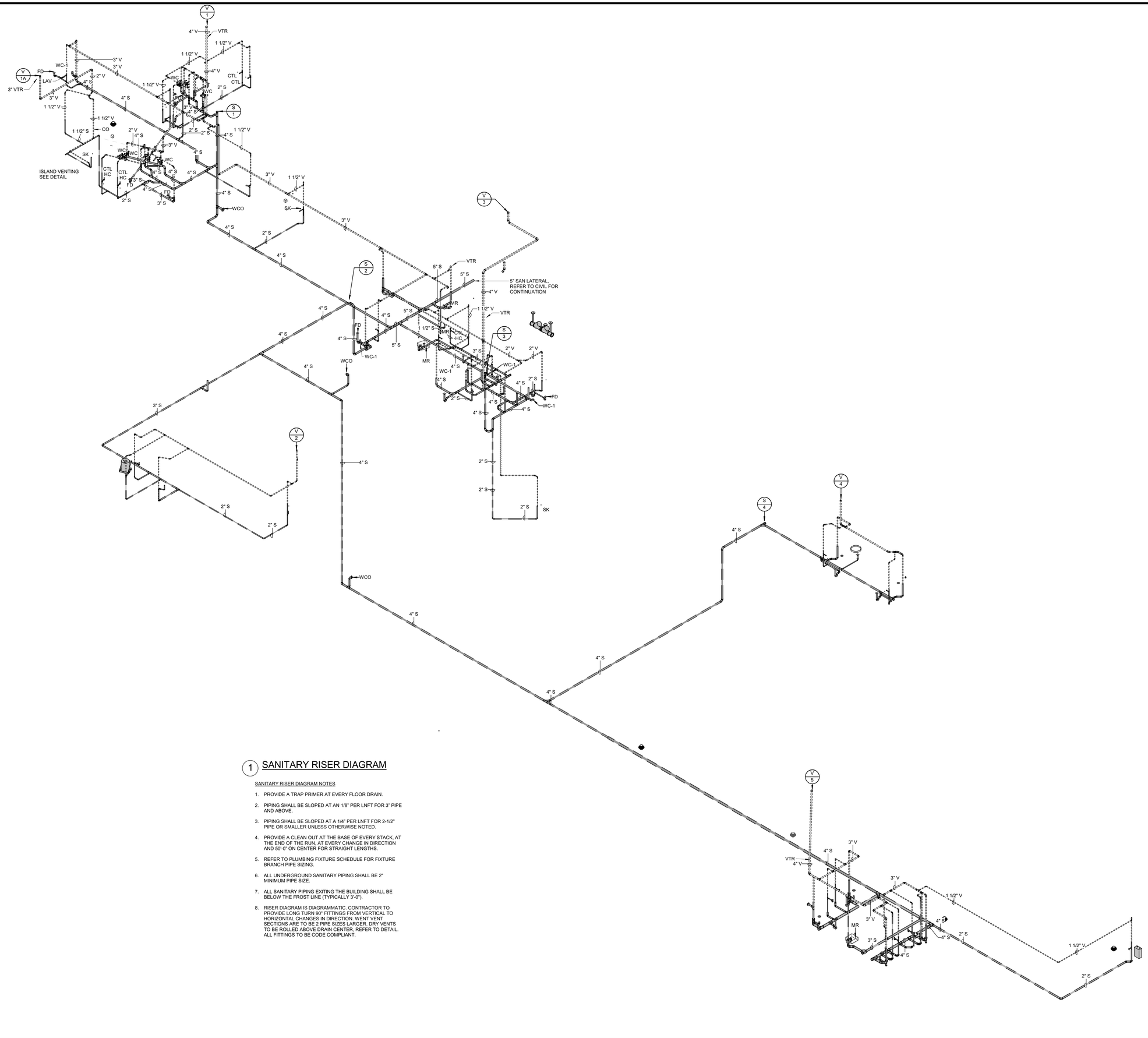

1 SANITARY RISER DIAGRAM

SANITARY RISER DIAGRAM NOTES

1. PROVIDE A TRAP PRIMER AT EVERY FLOOR DRAIN.
2. PIPING SHALL BE SLOPED AT AN 1/8" PER LNFT FOR 3" PIPE AND ABOVE.
3. PIPING SHALL BE SLOPED AT A 1/4" PER LNFT FOR 2-1/2" PIPE OR SMALLER UNLESS OTHERWISE NOTED.
4. PROVIDE A CLEAN OUT AT THE BASE OF EVERY STACK, AT THE END OF THE RUN, AT EVERY CHANGE IN DIRECTION AND 50'-0" ON CENTER FOR STRAIGHT LENGTHS.
5. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE BRANCH PIPE SIZING.
6. ALL UNDERGROUND SANITARY PIPING SHALL BE 2" MINIMUM PIPE SIZE.
7. ALL SANITARY PIPING EXITING THE BUILDING SHALL BE BELOW THE FROST LINE (TYPICALLY 3'-0").
8. RISER DIAGRAM IS DIAGRAMMATIC. CONTRACTOR TO PROVIDE LONG TURN 90° FITTINGS FROM VERTICAL TO HORIZONTAL CHANGES IN DIRECTION. WENT VENT SECTIONS ARE TO BE 2 PIPE SIZES LARGER. DRY VENTS TO BE ROLLED ABOVE DRAIN CENTER, REFER TO DETAIL. ALL FITTINGS TO BE CODE COMPLIANT.

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PLUMBING RISER DIAGRAM

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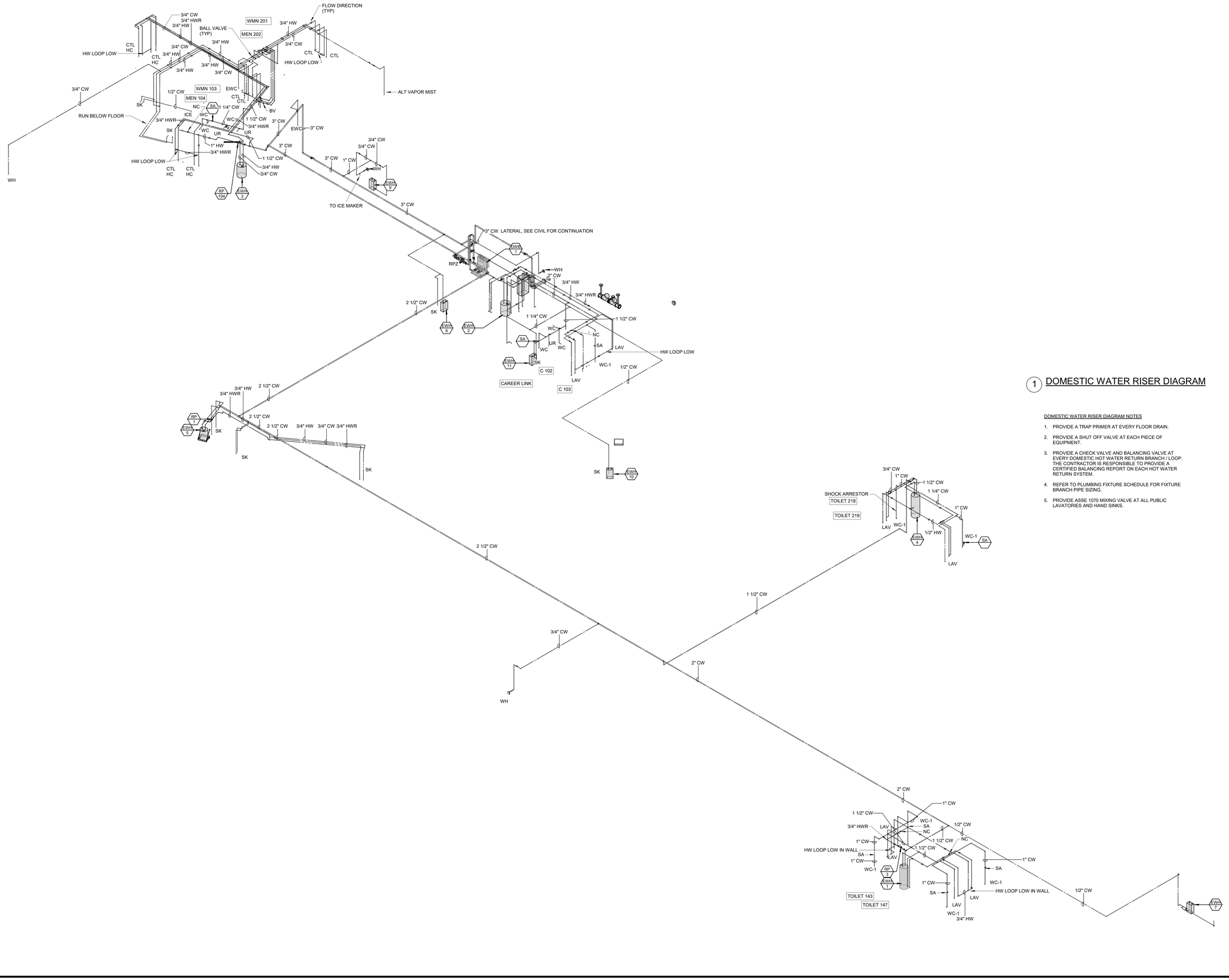

1 DOMESTIC WATER RISER DIAGRAM

DOMESTIC WATER RISER DIAGRAM NOTES

1. PROVIDE A TRAP PRIMER AT EVERY FLOOR DRAIN.
2. PROVIDE A SHUT OFF VALVE AT EACH PIECE OF EQUIPMENT.
3. PROVIDE A CHECK VALVE AND BALANCING VALVE AT EVERY DOMESTIC HOT WATER RETURN BRANCH / LOOP. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A CERTIFIED BALANCING REPORT ON EACH HOT WATER RETURN SYSTEM.
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE BRANCH PIPE SIZING.
5. PROVIDE ASSE 1070 MIXING VALVE AT ALL PUBLIC LAVATORIES AND HAND SINKS.

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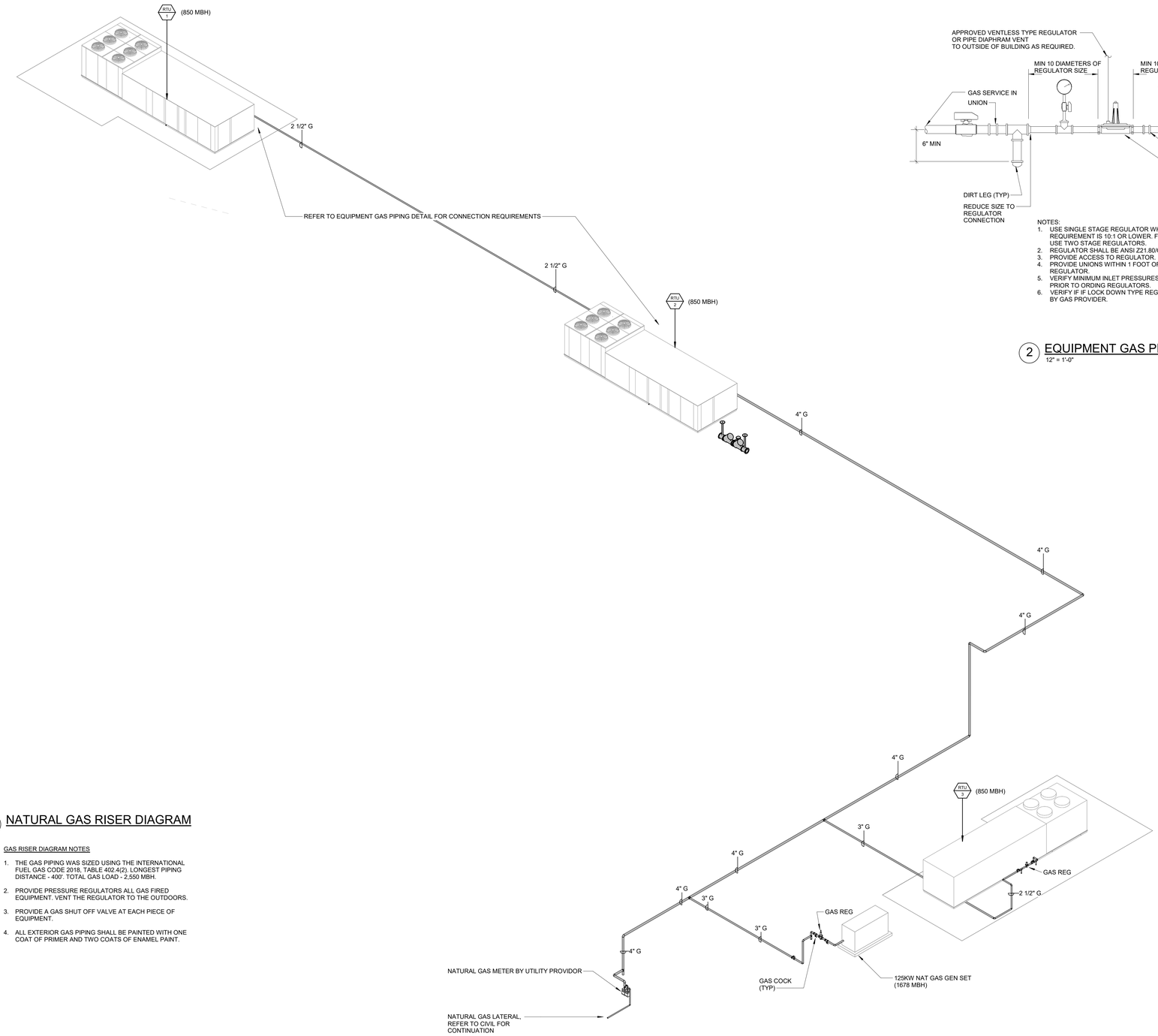
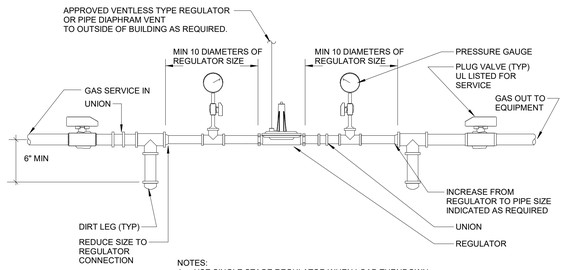


1 NATURAL GAS RISER DIAGRAM

GAS RISER DIAGRAM NOTES

1. THE GAS PIPING WAS SIZED USING THE INTERNATIONAL FUEL GAS CODE 2018, TABLE 402.4(2). LONGEST PIPING DISTANCE - 400'. TOTAL GAS LOAD - 2,550 MBH.
2. PROVIDE PRESSURE REGULATORS ALL GAS FIRED EQUIPMENT. VENT THE REGULATOR TO THE OUTDOORS.
3. PROVIDE A GAS SHUT OFF VALVE AT EACH PIECE OF EQUIPMENT.
4. ALL EXTERIOR GAS PIPING SHALL BE PAINTED WITH ONE COAT OF PRIMER AND TWO COATS OF ENAMEL PAINT.



NOTES:
1. USE SINGLE STAGE REGULATOR WHEN LOAD TURNDOWN REQUIREMENT IS 10:1 OR LOWER. FOR HIGHER TURNDOWNS, USE TWO STAGE REGULATORS.
2. REGULATOR SHALL BE ANSI Z21.80/CSA 6.22 COMPLIANT.
3. PROVIDE ACCESS TO REGULATOR.
4. PROVIDE UNIONS WITHIN 1 FOOT OF EITHER SIDE OF REGULATOR.
5. VERIFY MINIMUM INLET PRESSURES WITH GAS PROVIDER PRIOR TO ORDING REGULATORS.
6. VERIFY IF IF LOCK DOWN TYPE REGULATORS ARE REQUIRED BY GAS PROVIDER.

2 EQUIPMENT GAS PIPING DETAIL

12" = 1'-0"

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PLUMBING RISER DIAGRAM GAS

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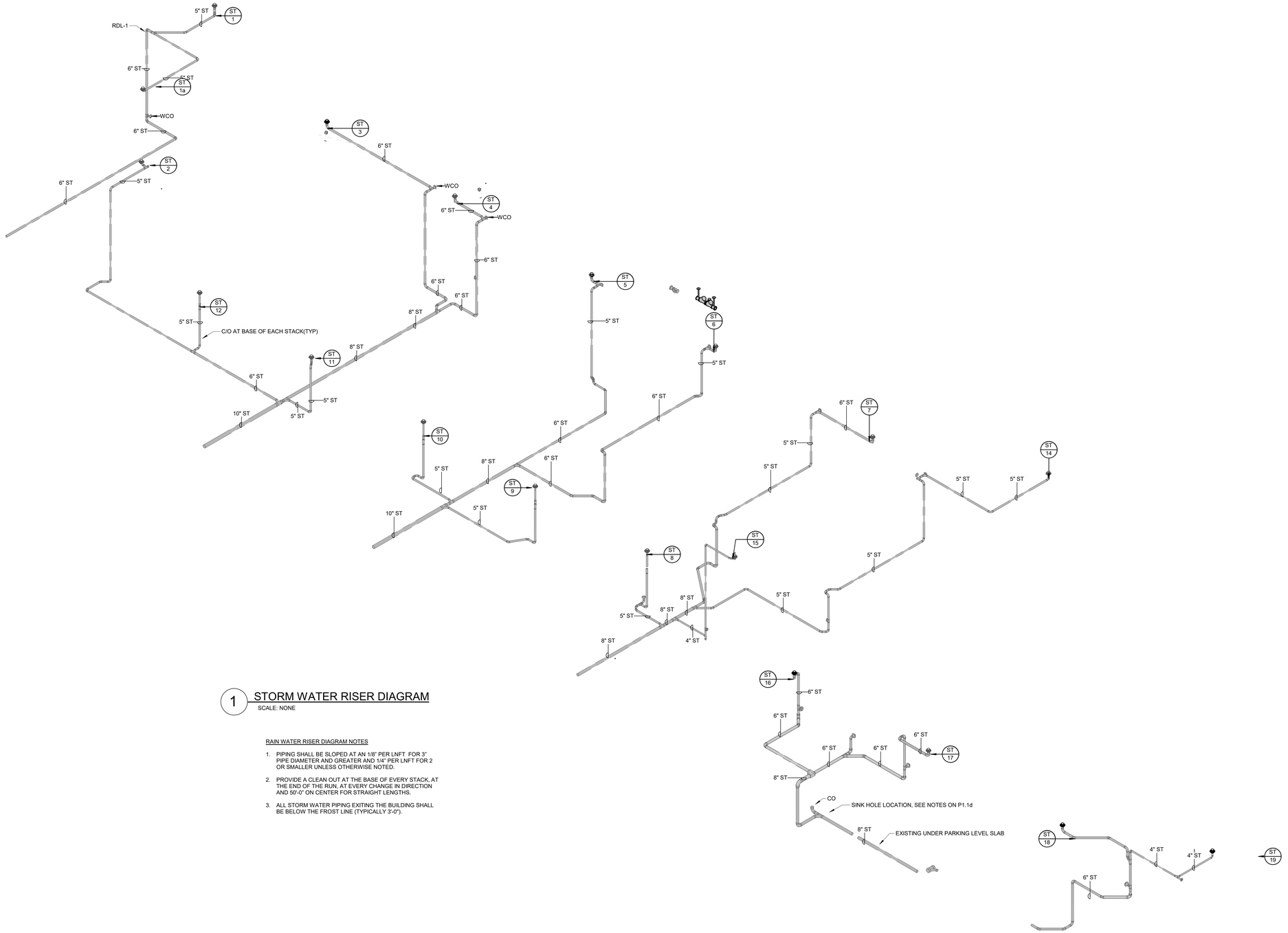

1 STORM WATER RISER DIAGRAM

SCALE: NONE

RAIN WATER RISER DIAGRAM NOTES

1. PIPING SHALL BE SLOPED AT AN 1/8" PER LNFT FOR 3" PIPE DIAMETER AND GREATER AND 1/4" PER LNFT FOR 2 OR SMALLER UNLESS OTHERWISE NOTED.
2. PROVIDE A CLEAN OUT AT THE BASE OF EVERY STACK, AT THE END OF THE RUN, AT EVERY CHANGE IN DIRECTION AND 50'-0" ON CENTER FOR STRAIGHT LENGTHS.
3. ALL STORM WATER PIPING EXITING THE BUILDING SHALL BE BELOW THE FROST LINE (TYPICALLY 3'-0").

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PLUMBING RISER DIAGRAM STORM

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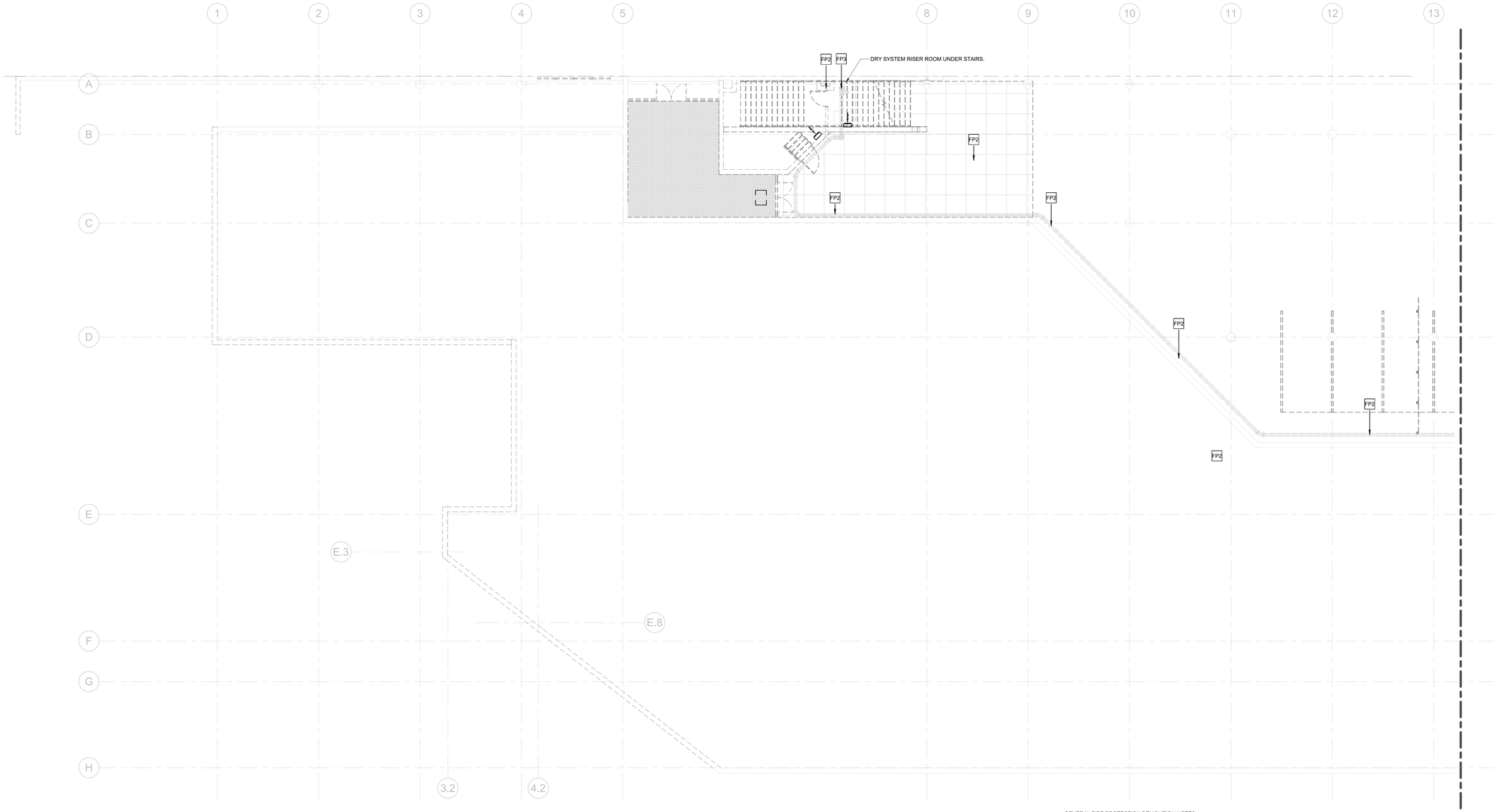


1 0- GROUND FLOOR- DEMOLITION PLAN- FIRE PROTECTION - AREA A

1/8" = 1'-0"

FIRE PROTECTION DEMOLITION... ⟨x⟩ NOTED THUS

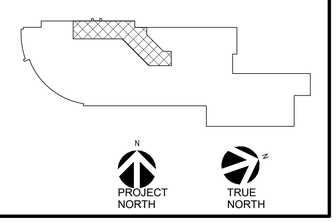
FP2 THE DRY PIPE SPRINKLER SYSTEM SHALL BE DEMOLISHED IN ITS ENTIRETY, DEMOLISH ALL MAIN, BRANCH AND ASSOCIATED PIPING, ALL FITTINGS, SPRINKLER HEADS HANGERS AND ALL ASSOCIATED APPURTANANCES.

FP3 THE CONTRACTOR SHALL DEMOLISH THE EXISTING DRY PIPE SPRINKLER RISER ROOM EQUIPMENTT & PIPING, ALL ASSOCIATED APPURTANANCES SHALL BE DEMOLISHED.

GENERAL FIRE PROTECTION DEMOLITION NOTES:

1. IT SHALL BE THE INTENTION TO REMOVE ALL EXISTING FIRE PROTECTION SYSTEMS IN THEIR ENTIRETY.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE IN ORDER TO BEST UNDERSTAND THE SCOPE OF THE DEMOLITION WORK.
3. ALL DEMOLISHED MATERIALS SHALL BE RECYCLED WHEREVER POSSIBLE. ANY HAZARDOUS MATERIALS SHALL BE HANDLED ACCORDING TO GOVERNMENT REGULATION AND DISPOSED OF IN A SAFE MANNER.
4. ALL EXISTING SYSTEMS SHALL BE COMPLETELY REMOVED AND CLEANED LEAVING NO ABANDONED MATERIAL.
5. ALL FIRE PROTECTION & EQUIPMENT & PIPING FROM THE DUAL SERVICE MAIN ON POWELL STREET SHALL BE DEMOLISHED, TO INCLUDE, HANGERS, SUPPORTS, HOSE CABINETS, MAIN,& BRANCH PIPING AND ALL ASSOCIATED APPURTENANCES.
6. ALL FIRE PROTECTION PIPING AND EQUIPMENT SHALL BE DEMOLISHED FROM THE MAIN COMING FROM SWEDE ST. TO THE DRY PIPE MECHANICAL ROOM.
   A. DEMOLITION INCLUDES ALL HANGERS SUPPORTS, PIPING, VALVES, FIRE DEPARTMENT CONNECTIONS, COMPRESSORS, ELECTRICAL CONNECTIONS & ALL ASSOCIATED APPURTENANCES
   B. DEMO ALL DRY SYSTEM MAIN & BRANCH PIPING, HANGERS AND SUPPORTS THROUGHOUT THE PARKING AREA, SUSPENDED & SUPPORTED FROM BUILDING SECTION ABOVE. INCLUDING HEAT TRACE AND ASSOCIATED ELECTRICAL CONNECTIONS, CONDUIT, JUNCTION BOXES PANELS, DISCONNECTS ETC.
7. ALL FIRE PROTECTION PIPING AND SPRINKLERS SHALL BE DEMO'D WITH ALL THEIR ASSOCIATED HANGERS, SUPPORTS, VALVES, ETC.

KEY PLAN



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GROUND FLOOR DEMOLITION PLAN AREA A- PH 2- FIRE PROTECTION

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	DESIGN DEVELOPMENT	02/21/25
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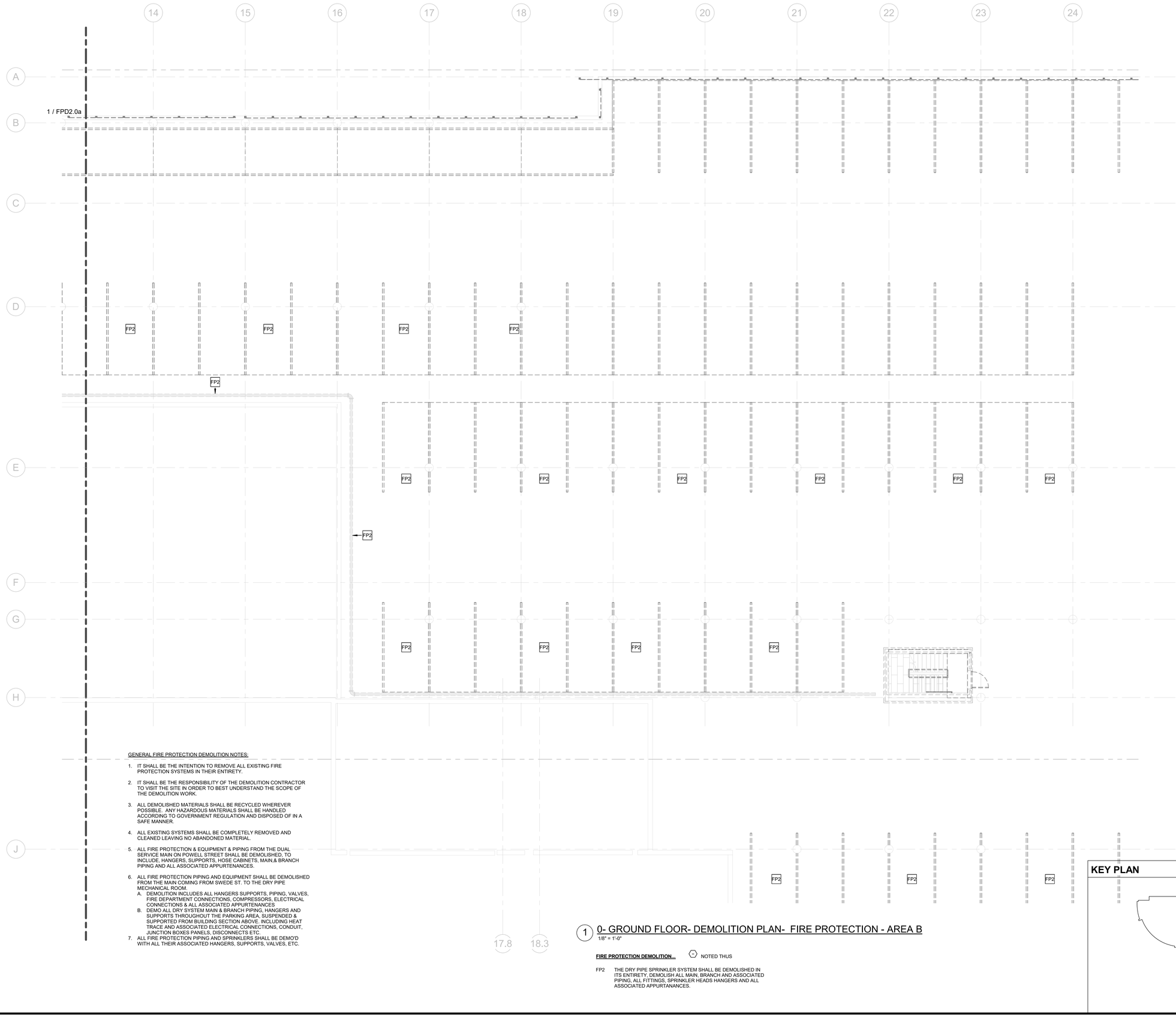


GENERAL FIRE PROTECTION DEMOLITION NOTES:

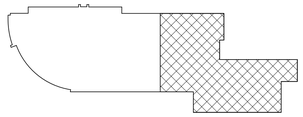
1. IT SHALL BE THE INTENTION TO REMOVE ALL EXISTING FIRE PROTECTION SYSTEMS IN THEIR ENTIRETY.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE IN ORDER TO BEST UNDERSTAND THE SCOPE OF THE DEMOLITION WORK.
3. ALL DEMOLISHED MATERIALS SHALL BE RECYCLED WHEREVER POSSIBLE. ANY HAZARDOUS MATERIALS SHALL BE HANDLED ACCORDING TO GOVERNMENT REGULATION AND DISPOSED OF IN A SAFE MANNER.
4. ALL EXISTING SYSTEMS SHALL BE COMPLETELY REMOVED AND CLEANED LEAVING NO ABANDONED MATERIAL.
5. ALL FIRE PROTECTION & EQUIPMENT & PIPING FROM THE DUAL SERVICE MAIN ON POWELL STREET SHALL BE DEMOLISHED. TO INCLUDE, HANGERS, SUPPORTS, HOSE CABINETS, MAIN,& BRANCH PIPING AND ALL ASSOCIATED APPURTENANCES.
6. ALL FIRE PROTECTION PIPING AND EQUIPMENT SHALL BE DEMOLISHED FROM THE MAIN COMING FROM SWEDE ST. TO THE DRY PIPE MECHANICAL ROOM.
   A. DEMOLITION INCLUDES ALL HANGERS SUPPORTS, PIPING, VALVES, FIRE DEPARTMENT CONNECTIONS, COMPRESSORS, ELECTRICAL CONNECTIONS & ALL ASSOCIATED APPURTENANCES
   B. DEMO ALL DRY SYSTEM MAIN & BRANCH PIPING, HANGERS AND SUPPORTS THROUGHOUT THE PARKING AREA, SUSPENDED & SUPPORTED FROM BULDING SECTION ABOVE. INCLUDING HEAT TRACE AND ASSOCIATED ELECTRICAL CONNECTIONS, CONDUIT, JUNCTION BOXES PANELS, DISCONNECTS ETC.
7. ALL FIRE PROTECTION PIPING AND SPRINKLERS SHALL BE DEMO'D WITH ALL THEIR ASSOCIATED HANGERS, SUPPORTS, VALVES, ETC.

1 0- GROUND FLOOR- DEMOLITION PLAN- FIRE PROTECTION - AREA B
1/8" = 1'-0"

FIRE PROTECTION DEMOLITION... ⬡ NOTED THUS

FP2 THE DRY PIPE SPRINKLER SYSTEM SHALL BE DEMOLISHED IN ITS ENTIRETY, DEMOLISH ALL MAIN, BRANCH AND ASSOCIATED PIPING, ALL FITTINGS, SPRINKLER HEADS HANGERS AND ALL ASSOCIATED APPURTANANCES.

KEY PLAN



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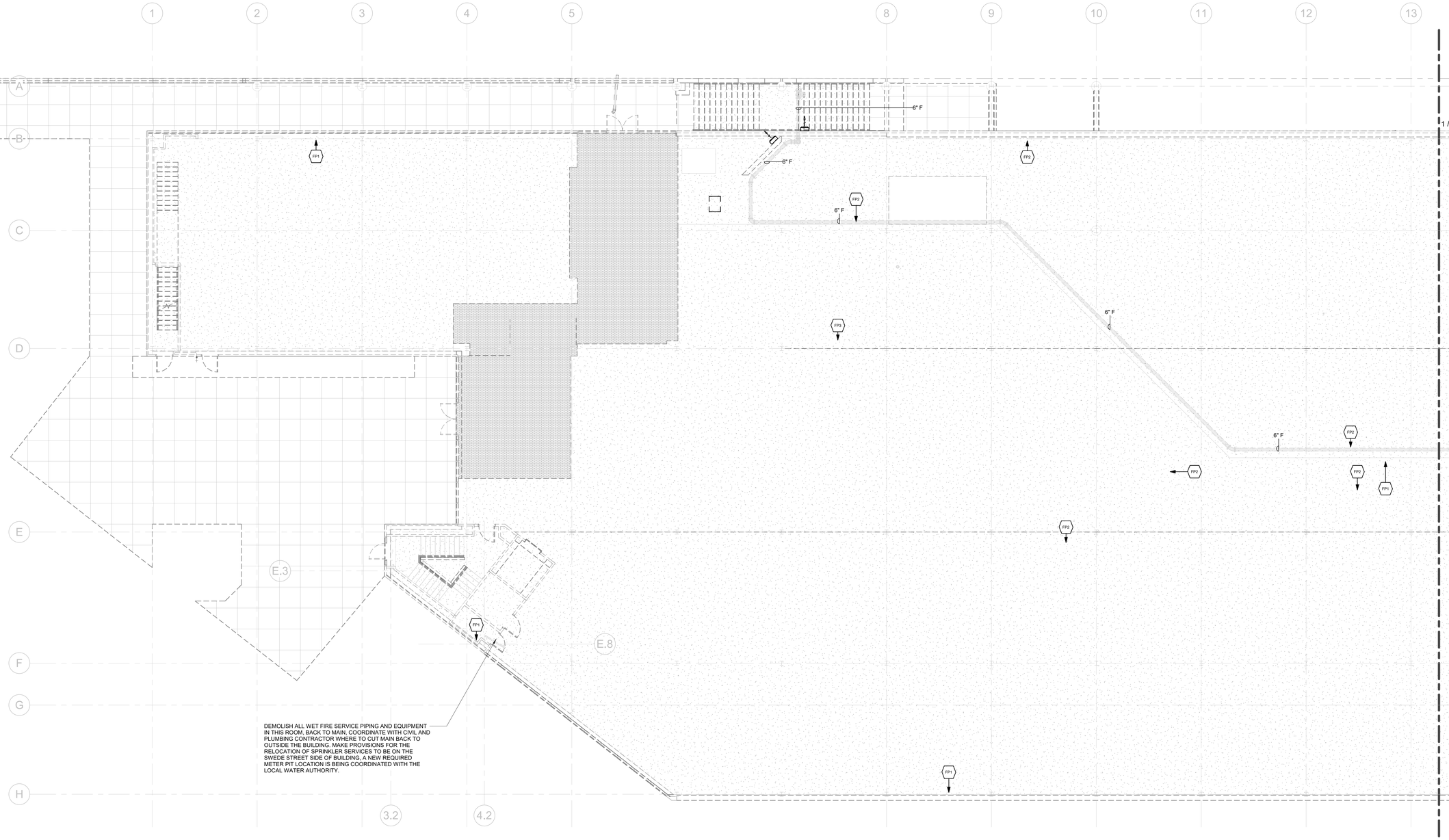
CONSTRUCTION ISSUE DATE:
DRAWN BY: ST
CHECKED BY: Checker
SCALE:AS NOTED

GROUND FLOOR DEMOLITION PLAN AREA B - PH 2- FIRE PROTECTION

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

FPD2.0b

4/21/2026 3:03:15 PM



1 1ST FLR DEMOLITION PLAN- PH 2- FIRE PROTECTION - AREA A

1/8" = 1'-0"

FIRE PROTECTION DEMOLITION... ⬡ NOTED THUS

FP1 THE CONTRACTOR SHALL DEMOLISH THE EXISTING WET PIPE HOSE CABINET AND SUPPLY PIPING THROUGHOUT AND BACK TO MAIN RISER ROOM. THE DESIGN INTENT IS TO DEMOLISH ALL EXISTING SYSTEMS AND PREPARE AS PART OF THE DEMOLITION PHASE OF WORK, TO REPLACE ALL PIPING AND SYSTEMS WITH NEW THROUGHOUT.

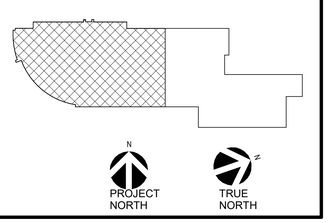
FP2 THE DRY PIPE SPRINKLER SYSTEM SHALL BE DEMOLISHED IN ITS ENTIRETY, DEMOLISH ALL MAIN, BRANCH AND ASSOCIATED PIPING, ALL FITTINGS, SPRINKLER HEADS HANGERS AND ALL ASSOCIATED APPURTANANCES.

FP3 THE CONTRACTOR SHALL DEMOLISH THE EXISTING DRY PIPE SPRINKLER RISER ROOM EQUIPMENTT & PIPING, ALL ASSOCIATED APPURTANANCES SHALL BE DEMOLISHED.

GENERAL FIRE PROTECTION DEMOLITION NOTES:

1. IT SHALL BE THE INTENTION TO REMOVE ALL EXISTING FIRE PROTECTION SYSTEMS IN THEIR ENTIRETY.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE IN ORDER TO BEST UNDERSTAND THE SCOPE OF THE DEMOLITION WORK.
3. ALL DEMOLISHED MATERIALS SHALL BE RECYCLED WHEREVER POSSIBLE. ANY HAZARDOUS MATERIALS SHALL BE HANDLED ACCORDING TO GOVERNMENT REGULATION AND DISPOSED OF IN A SAFE MANNER.
4. ALL EXISTING SYSTEMS SHALL BE COMPLETELY REMOVED AND CLEANED LEAVING NO ABANDONED MATERIAL.
5. ALL FIRE PROTECTION & EQUIPMENT & PIPING FROM THE DUAL SERVICE MAIN ON POWELL STREET SHALL BE DEMOLISHED, TO INCLUDE, HANGERS, SUPPORTS, HOSE CABINETS, MAIN,& BRANCH PIPING AND ALL ASSOCIATED APPURTENANCES.
6. ALL FIRE PROTECTION PIPING AND EQUIPMENT SHALL BE DEMOLISHED FROM THE MAIN COMING FROM SWEDE ST. TO THE DRY PIPE MECHANICAL ROOM.
   A. DEMOLITION INCLUDES ALL HANGERS SUPPORTS, PIPING, VALVES, FIRE DEPARTMENT CONNECTIONS, COMPRESSORS, ELECTRICAL CONNECTIONS & ALL ASSOCIATED APPURTENANCES
   B. DEMO ALL DRY SYSTEM MAIN & BRANCH PIPING, HANGERS AND SUPPORTS THROUGHOUT THE PARKING AREA, SUSPENDED & SUPPORTED FROM BUILDING SECTION ABOVE. INCLUDING HEAT TRACE AND ASSOCIATED ELECTRICAL CONNECTIONS, CONDUIT, JUNCTION BOXES PANELS, DISCONNECTS ETC.
7. ALL FIRE PROTECTION PIPING AND SPRINKLERS SHALL BE DEMO'D WITH ALL THEIR ASSOCIATED HANGERS, SUPPORTS, VALVES, ETC.

KEY PLAN



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ENGINEER
RM037370
05/05/2026

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FIRST FLOOR DEMOLITION PLAN AREA A- PH 2- FIRE PROTECTION

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

FPD2.1a

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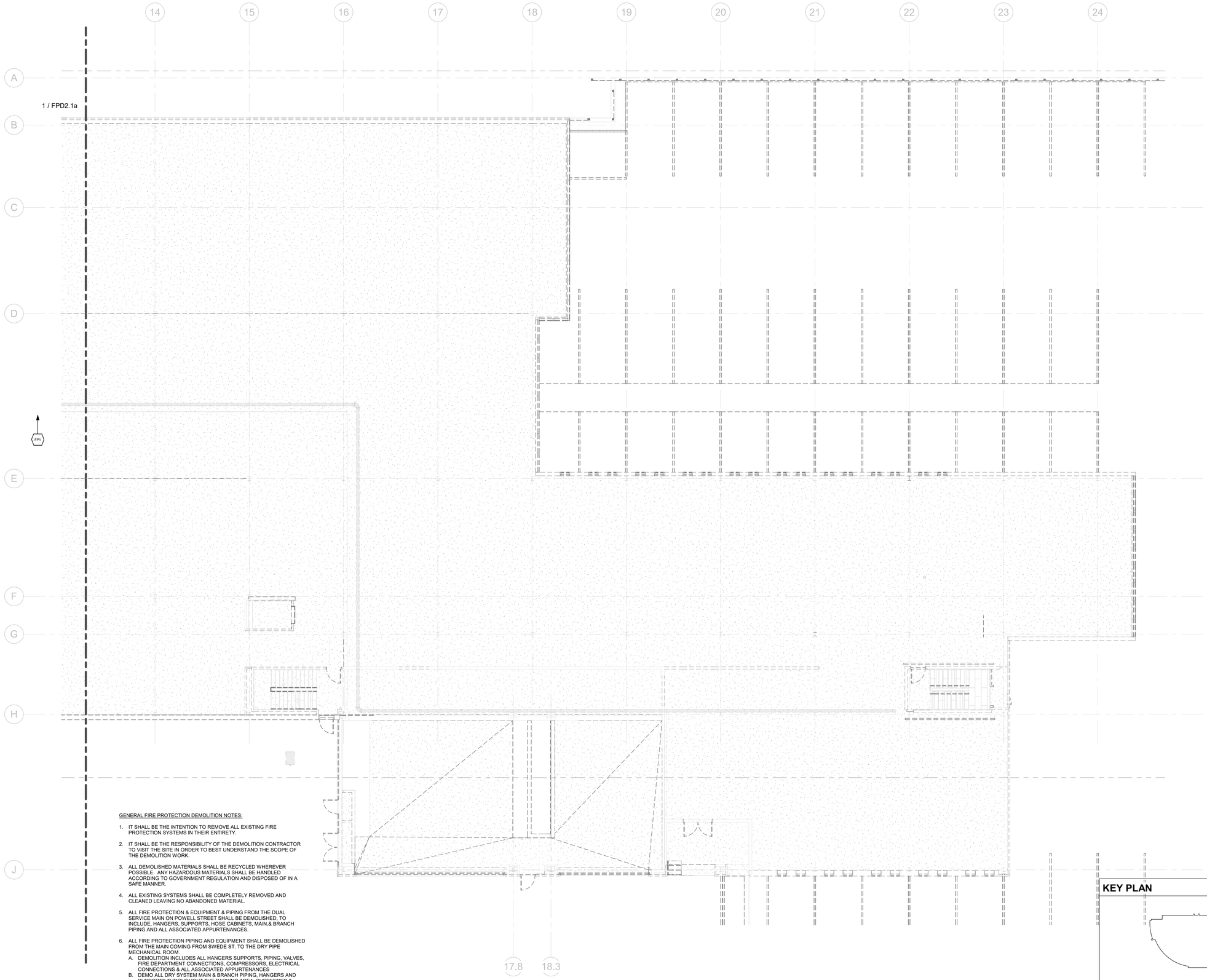

GENERAL FIRE PROTECTION DEMOLITION NOTES:

1. IT SHALL BE THE INTENTION TO REMOVE ALL EXISTING FIRE PROTECTION SYSTEMS IN THEIR ENTIRETY.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE IN ORDER TO BEST UNDERSTAND THE SCOPE OF THE DEMOLITION WORK.
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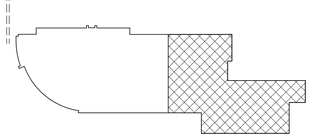
7. ALL FIRE PROTECTION PIPING AND SPRINKLERS SHALL BE DEMO'D WITH ALL THEIR ASSOCIATED HANGERS, SUPPORTS, VALVES, ETC.

1 1ST FLR DEMOLITION PLAN- PH 2- FIRE PROTECTION - AREA B
1/8" = 1'-0"

KEY PLAN



N PROJECT NORTH

TRUE NORTH

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FIRST FLOOR DEMOLITION PLAN AREA B- PH 2- FIRE PROTECTION

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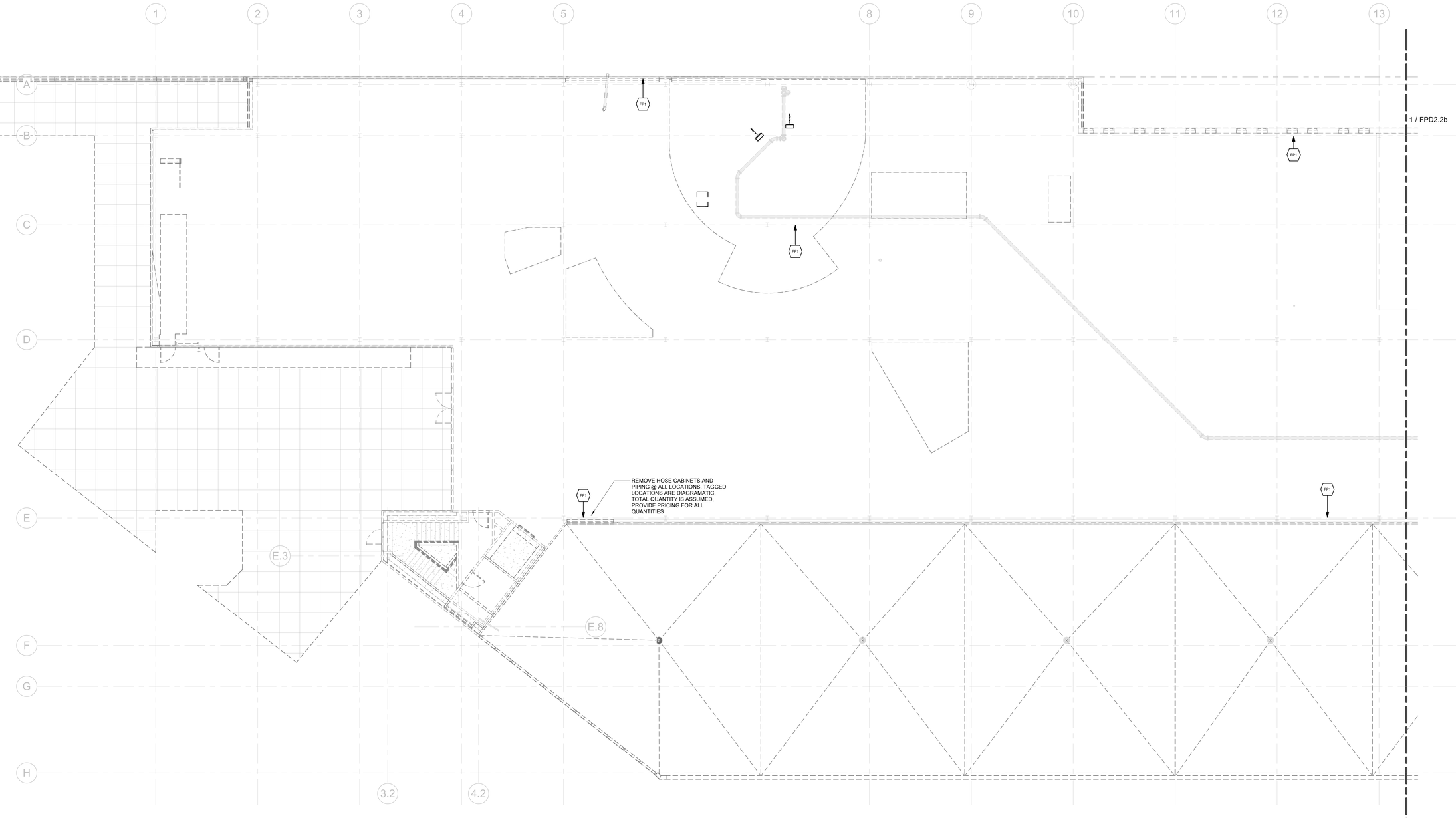

1 2ND FLR DEMOLITION PLAN- PH 2- FIRE PROTECTION - AREA A

1/8" = 1'-0"

FIRE PROTECTION DEMOLITION... ⬡ NOTED THUS

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GENERAL FIRE PROTECTION DEMOLITION NOTES:

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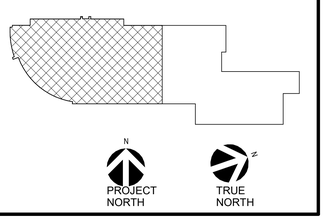

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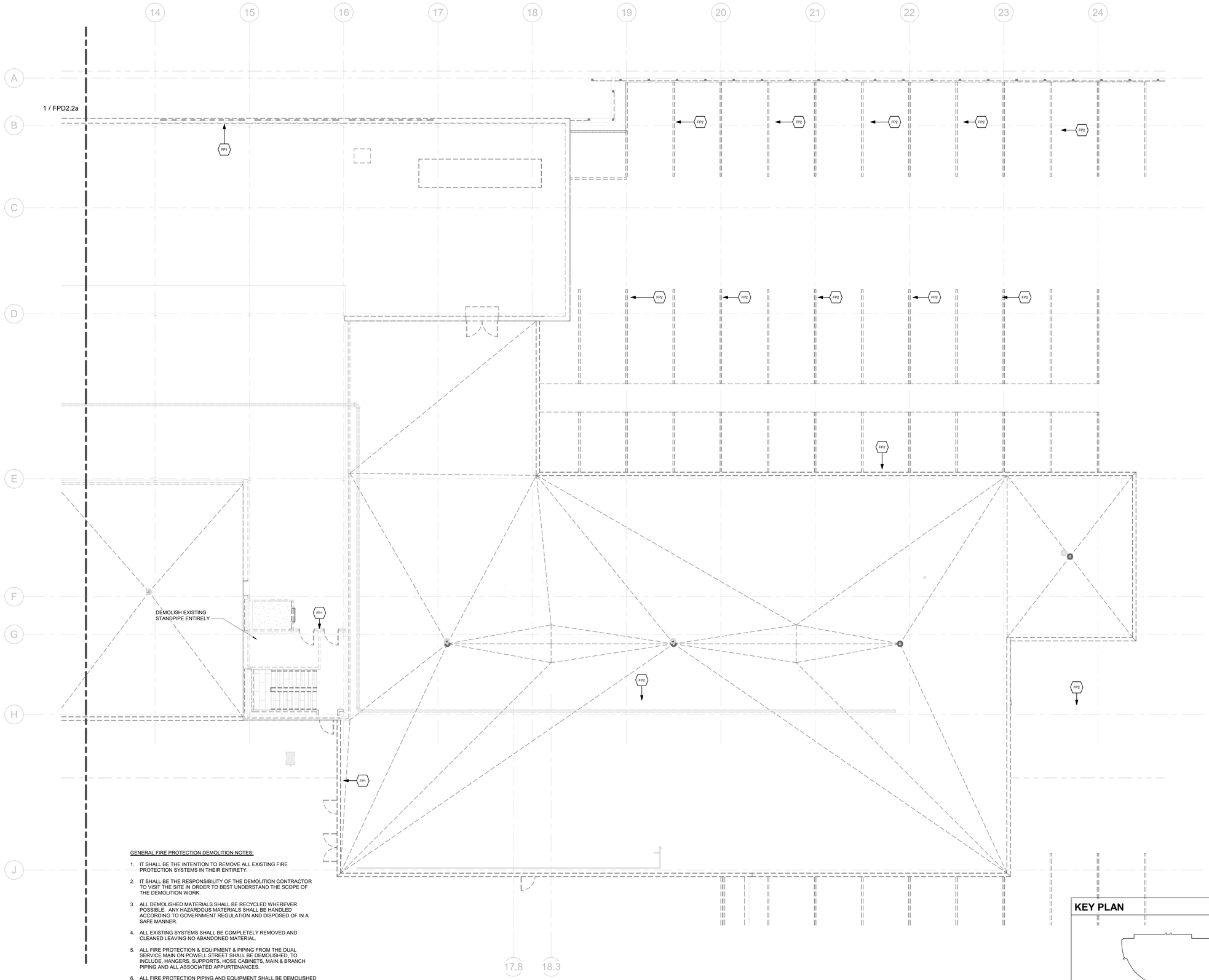
SECOND FLOOR DEMOLITION PLAN AREA A- PH 2- FIRE PROTECTION

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

FPD2.2a

4/21/2026 3:03:25 PM



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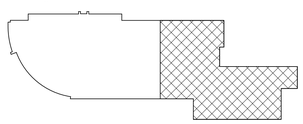
1 2ND FLR DEMOLITION PLAN- PH 2- FIRE PROTECTION - AREA B
1/8" = 1'-0"

KEY PLAN



PROJECT NORTH

TRUE NORTH

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SECOND FLOOR DEMOLITION PLAN AREA B- PH 2- FIRE PROTECTION

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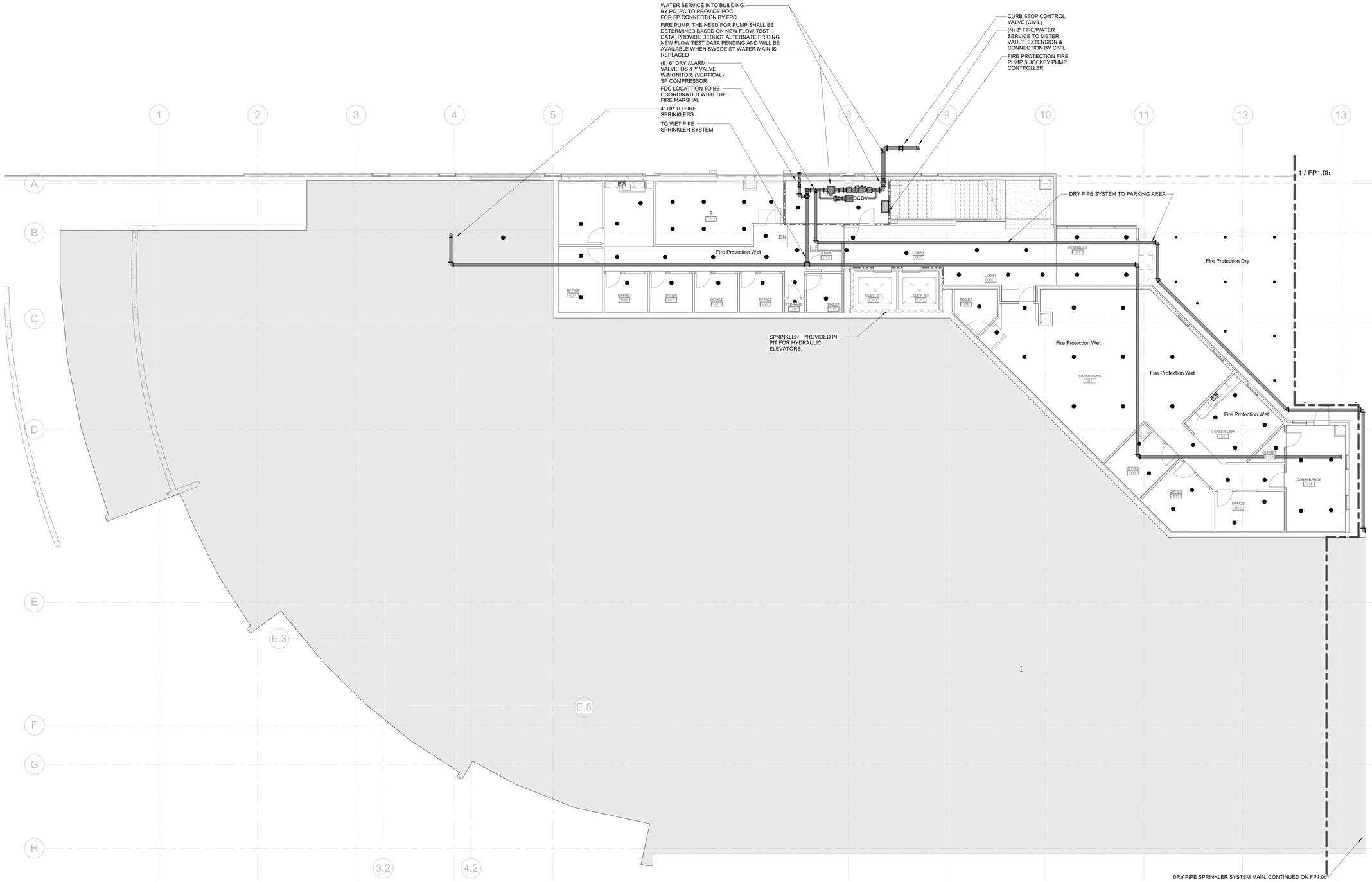
FPD2.2b



1 GROUND FLOOR- NEW CONSTRUCTION PLAN AREA A- FIRE PROTECTION

1/8" = 1'-0"

1. SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA-13 LIGHT HAZARD OCCUPANCY EXCEPT WHERE DICTATED BY NFPA-13 TO BE ORDINARY HAZARD.
2. ALL WET SPRINKLER PIPING SHALL BE LOCATED WITHIN BUILDING ENVELOPE.
3. SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE STATE DEPARTMENT OF HEALTH, THE FIRE MARSHAL, LOCAL AUTHORITY HAVING JURISDICTION, OWNER'S INSURANCE CARRIER, AND MCHUGH ENGINEERING. THE FIRE PROTECTION SPRINKLER CONTRACTOR IS TO BE RESPONSIBLE FOR ACQUIRING APPROVAL PRIOR TO ORDERING, ROUGH-IN, OR INSTALLATION.
4. SPRINKLER HEAD LAYOUT IS DIAGRAMMATIC AND IT IS THE INTENT FOR THE SPRINKLER CONTRACTOR TO ADD ADDITIONAL HEADS AND PIPING AS REQUIRED TO COMPLY WITH NFPA-13 AND LOCAL CODE REQUIREMENTS.
5. SPRINKLER HEADS IN AREAS WITH UNFINISHED CEILINGS SHALL BE STANDARD BRASS UPRIGHT TYPE.
6. SPRINKLER HEADS IN FINISHED PUBLIC AREAS SHALL BE CONCEALED.
7. SPRINKLER CONTRACTOR SHALL CLEAN AND FLUSH ALL SITE MAINS BEFORE SUPPLYING BUILDING SYSTEM.
8. CONTRACTOR SHALL COORDINATE ALL SPRINKLER PIPING MAINS AND BRANCH RUNS WITH MECHANICAL DUCT, SHOP DRAWINGS, PLUMBING PIPING, STRUCTURE & ELECTRICAL CONDUIT, PANELS, & EQUIPMENT, PRIOR TO INSTALLATION OF SPRINKLER MAINS, BRANCHES, SPRINKLER HEADS ETC...

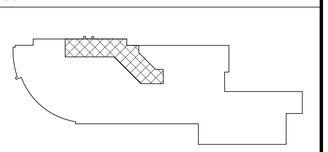
CONTRACTOR TO PROVIDE 10 PSI FACTOR OF SAFETY.

SPRINKLER NOTES:

1. SPRINKLER CONTRACTOR SHALL DESIGN, FURNISH, AND INSTALL A SPRINKLER SYSTEM THROUGHOUT THE BUILDING IN ACCORDANCE WITH NFPA-13.
2. SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA-13 LIGHT HAZARD OCCUPANCY EXCEPT WHERE DICTATED BY NFPA-13 TO BE ORDINARY HAZARD.
3. PROVIDE DRY SPRINKLER HEADS IN AREAS SUBJECT TO FREEZING.
4. ALL WET SPRINKLER PIPING SHALL BE LOCATED WITHIN BUILDING ENVELOPE.
5. SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL TO THE LOCAL FIRE MARSHALL (AUTHORITY HAVING JURISDICTION).
6. SPRINKLER HEADS IN AREAS WITH UNFINISHED CEILINGS SHALL BE STANDARD BRASS UPRIGHT TYPE.
7. SPRINKLER HEADS IN FINISHED PUBLIC AREAS SHALL BE CONCEALED. SPRINKLER HEADS IN AREAS WITHOUT A CEILING SHALL BE PENDANT TYPE. WHEN SPRINKLER HEADS LAND IN DECORATIVE CEILINGS COLOR IS TO BE SELECTED BY ARCHITECT FROM FULL COLOR RANGE.
8. CONTRACTOR TO PROVIDE 10 PSI FACTOR OF SAFETY.

STREET PRESSURE HYDRANT TEST AT SWEDE STREET NEAR POWELL STREET, NORRISTOWN PA.
FLOW TEST INFO: - 70 PSI STATIC, 17 PSI RESIDUAL, 600 GPM.

KEY PLAN



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GROUND FLOOR NEW CONSTRUCTION PLAN AREA A- FIRE PROTECTION

NO.	DESCRIPTION	DATE
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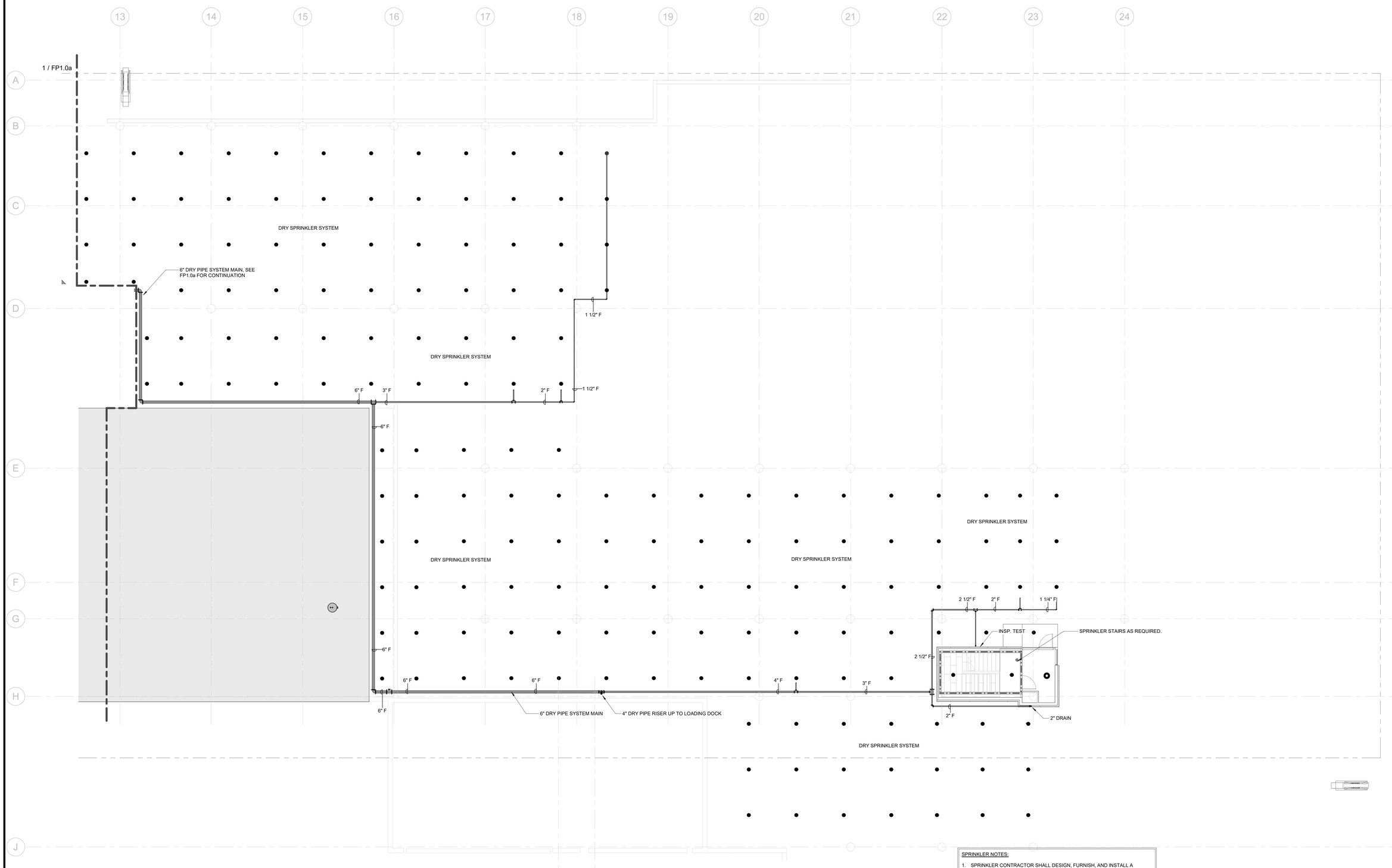
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25
3	CODE UPDATE CHANGES	04/10/26

FP1.0a

4/21/2026 3:03:29 PM



SPRINKLER CONTRACTOR NOTE:

1. SPRINKLER HEAD LAYOUT TO BE IN ACCORDANCE WITH NFPA-13 LIGHT HAZARD OCCUPANCY EXCEPT WHERE ORDINARY HAZARD IS DICTATED BY THE OCCUPANCY OR INSURANCE UNDERWRITEN.
2. SPRINKER CONTRACTOR TO OBTAIN THE APPROVAL FROM THE OWNERS INSURANCE CARRIER AND FIRE MARSHAL. SPRINKLER HEAD LAYOUT IS DIAGRAMMATIC AND IT IS THE INTENT FOR THE SPRINKLER CONTRACTOR TO ADD ADDITIONAL HEADS AND PIPING AS REQUIRED TO COMPLY WITH NFPA-13 AND LOCAL CODE REQUIREMENTS.
3. CONTRACTOR TO PROVIDE 10 PSI FACTOR OF SAFETY.

STREET PRESSURE HYDRANT TEST AT ___ STREET NEAR ___ STREET.
FLOW TEST INFO: - ___ PSI STATIC, ___ PSI RESIDUAL, ___ GPM.
XX/XX/XX

1 GROUND FLOOR- NEW CONSTRUCTION PLAN AREA B- FIRE PROTECTION

1/8" = 1'-0"

1. SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA-13 LIGHT HAZARD OCCUPANCY EXCEPT WHERE DICTATED BY NFPA-13 TO BE ORDINARY HAZARD.
2. ALL WET SPRINKLER PIPING SHALL BE LOCATED WITHIN BUILDING ENVELOPE.
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5. SPRINKLER HEADS IN AREAS WITH UNFINISHED CEILINGS SHALL BE STANDARD BRASS UPRIGHT TYPE.
6. SPRINKLER HEADS IN FINISHED PUBLIC AREAS SHALL BE CONCEALED.
7. SPRINKLER CONTRACTOR SHALL CLEAN AND FLUSH ALL SITE MAINS BEFORE SUPPLYING BUILDING SYSTEM.
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FLOW TEST INFO: - 70 PSI STATIC, 17 PSI RESIDUAL, 600 GPM.

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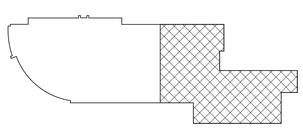

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GROUND FLOOR NEW CONSTRUCTION PLAN- AREA B- FIRE PROTECTION

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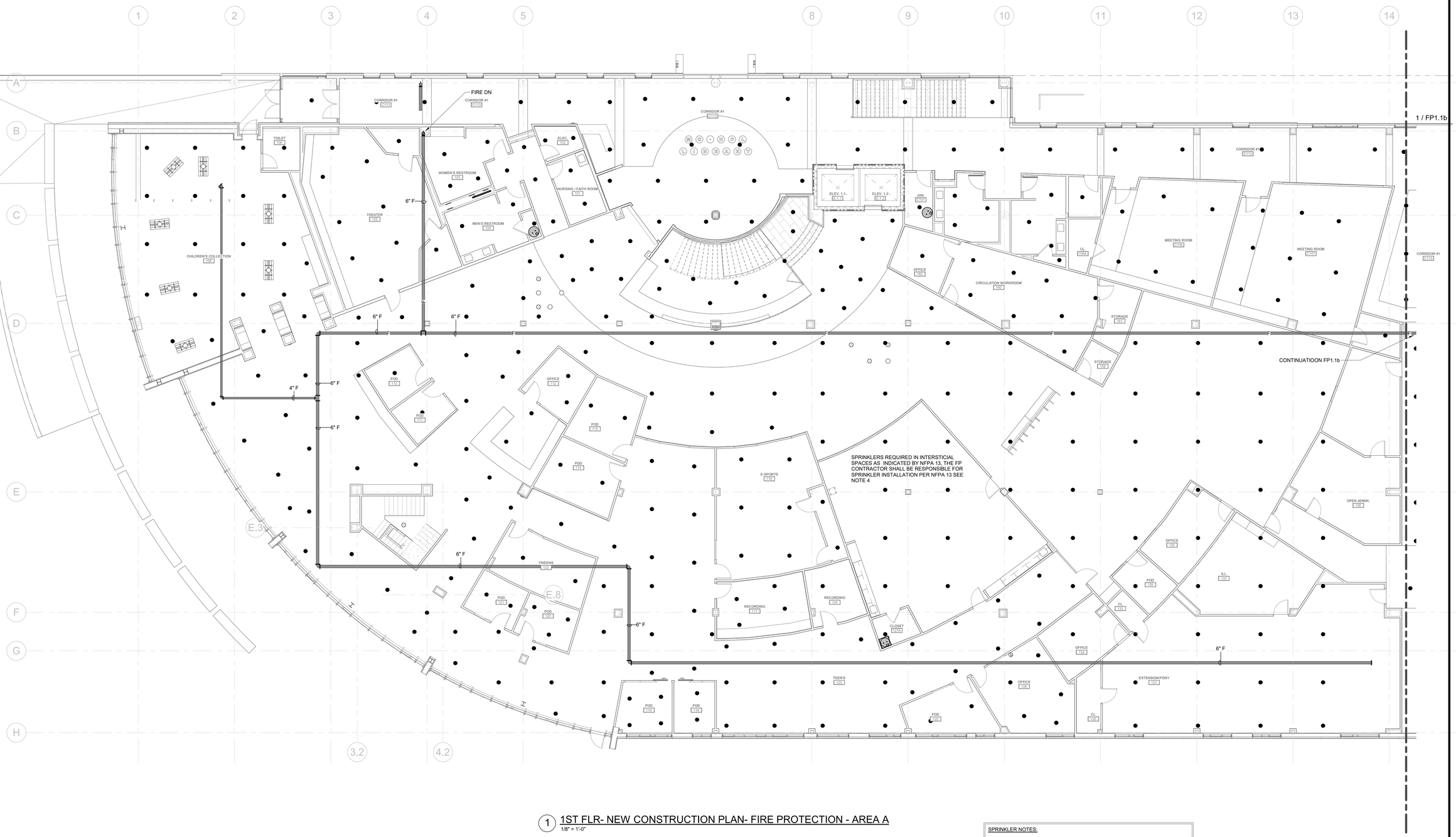

SPRINKLERS REQUIRED IN INTERSTICIAL SPACES AS INDICATED BY NFPA 13, THE FP CONTRACTOR SHALL BE RESPONSIBLE FOR SPRINKLER INSTALLATION PER NFPA 13 SEE NOTE 4

1 1ST FLR- NEW CONSTRUCTION PLAN- FIRE PROTECTION - AREA A

1/8" = 1'-0"

1. SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA-13 LIGHT HAZARD OCCUPANCY EXCEPT WHERE DICTATED BY NFPA-13 TO BE ORDINARY HAZARD.
2. ALL WET SPRINKLER PIPING SHALL BE LOCATED WITHIN BUILDING ENVELOPE.
3. SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE STATE DEPARTMENT OF HEALTH, THE FIRE MARSHAL, LOCAL AUTHORITY HAVING JURISDICTION, OWNER'S INSURANCE CARRIER, AND MCHUGH ENGINEERING. THE FIRE PROTECTION SPRINKLER CONTRACTOR IS TO BE RESPONSIBLE FOR ACQUIRING APPROVAL PRIOR TO ORDERING, ROUGH-IN, OR INSTALLATION.
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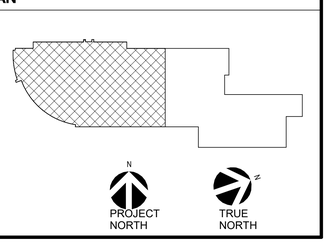

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FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- FIRE PROTECTION

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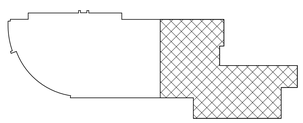
1 1ST FLR- NEW CONSTRUCTION PLAN- FIRE PROTECTION - AREA B

1/8" = 1'-0"

KEY PLAN



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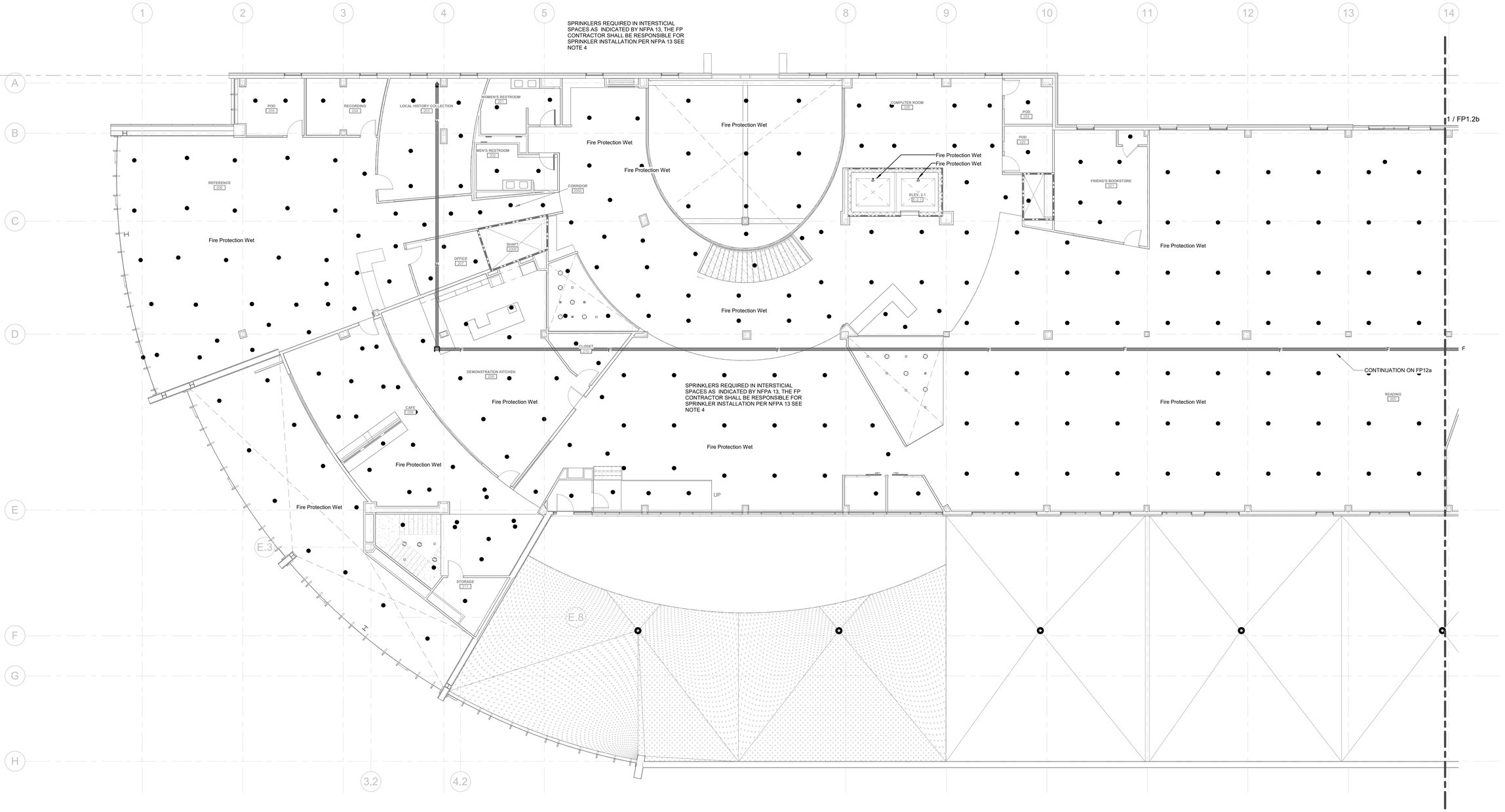

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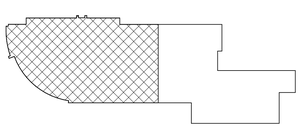

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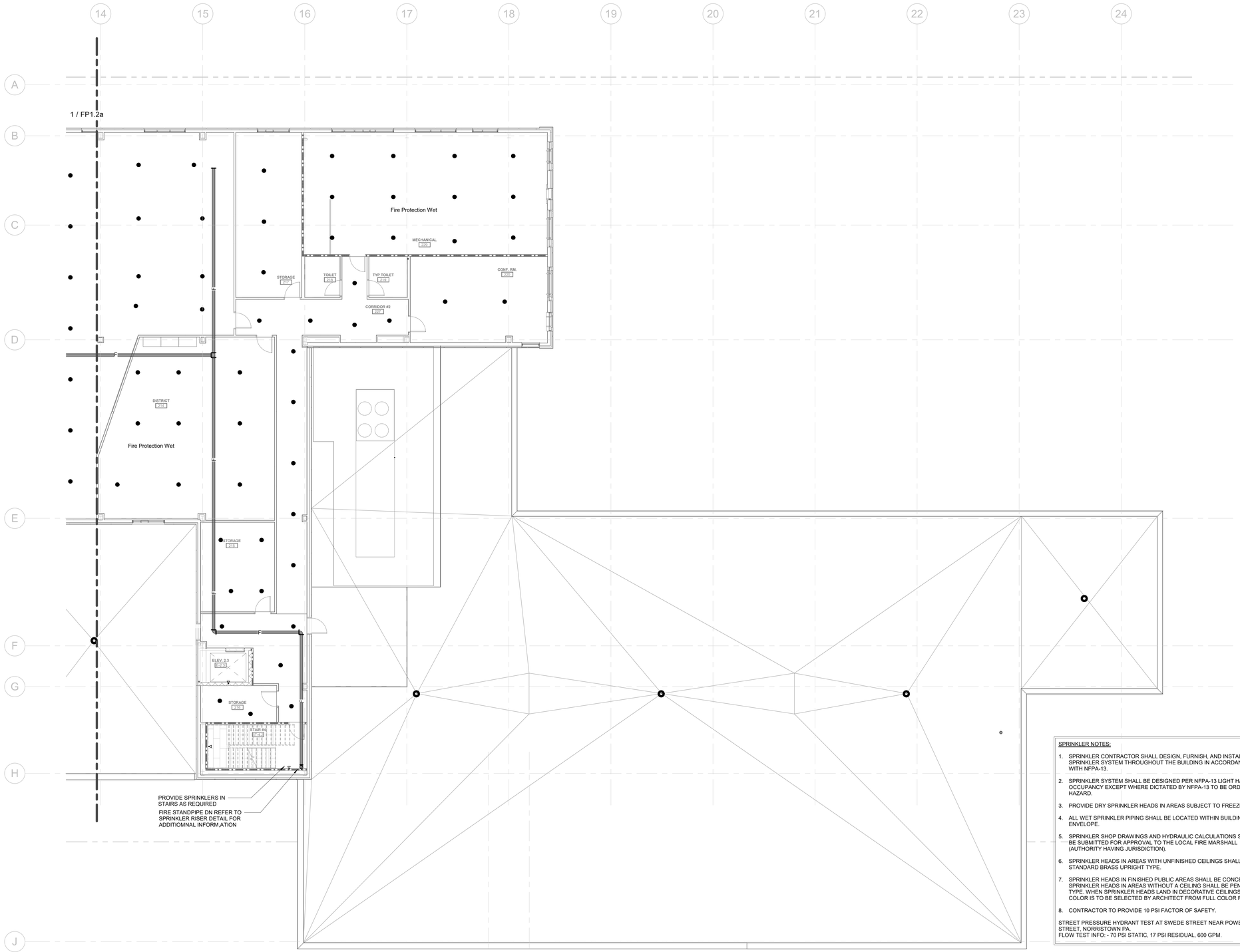

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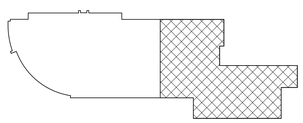

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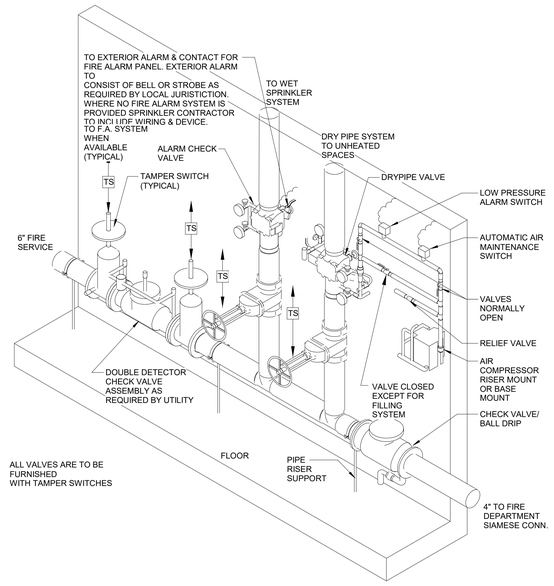
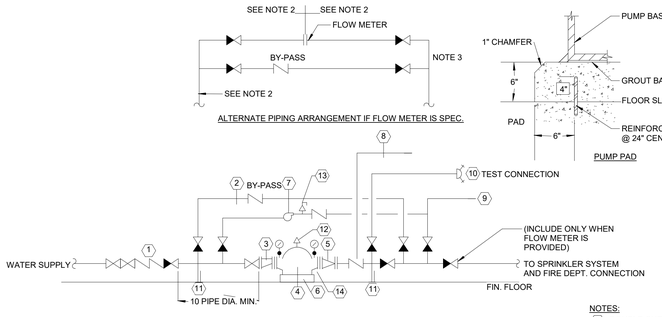


3 SPRINKLER RISER DIAGRAM - WITH DRY PIPE VALVE
12" = 1'-0"



- DETAIL APPLIES TO HORIZONTAL SPLIT-CASE PUMP -

INSTALLATION TO CONFORM TO NFPA-20

FOR PIPE SIZING REFER TO TABLE 2-20, "SUMMARY OF FIRE PUMP" DATA.

OS&Y GATE VALVE OR INDICATING BUTTERFLY VALVE WITH TAMPER SWITCH BY SPRINKLER CONTRACTOR.

OS&Y GATE VALVE.

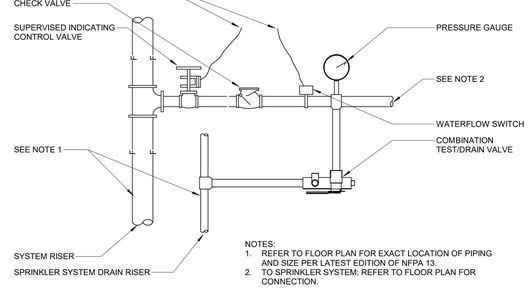
NOTES:

1. DISTANCE AS RECOMMENDED BY METER MANUFACTURER.
2. DISTANCE NOT LESS THAN 5" PIPE DIAMETER OF SUCTION PIPE FOR TOP OR BOTTOM SUCTION CONNECTION. SIDE CONNECTION NOT ACCEPTABLE.
3. AUTO AIR RELEASE IF PIPING FORMS INVERTED "U" TRAPPING AIR.
4. PROVIDE PRESSURE REDUCING VALVE WHERE PUMP DISCHARGE PRESSURE MAY EXCEED PIPE AND FITTING RATINGS.

NOTES:

(1) DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY (WHERE REQUIRED BY UTILITY).
(2) FULL SIZED BY-PASS WHERE CITY WATER PRESSURE PROVIDES LIMITED SUPPLY.
(3) ECCENTRIC TAPERED REDUCER WHERE PUMP SUCTION AND SUPPLY ARE NOT THE SAME.
(4) FIRE PUMP, FOR CAPACITY SEE SPECIFICATIONS.
(5) CONCENTRIC INCREASER WHERE PUMP DISCHARGE AND PIPING ARE NOT THE SAME.
(6) CONCRETE PAD, PUMP BASE GROUTED IN PLACE.
(7) JOCKEY PUMP.
(8) PIPING TO FIRE PUMP CONTROLLER PER NFPA-20 FIG. A-7-5-2.1(a).
(9) PIPING TO JOCKEY PUMP CONTROLLER PER NFPA FIG. A-7-5-2.1(a)(b).
(10) PUMP TEST HEADER ON EXTERIOR/REQUIRED 2 1/2" HOSE OUTLETS.
(11) PIPE SUPPORT.
(12) AIR RELEASE VALVE
(13) PRESSURE RELIEF VALVE WHERE REQUIRED.
(14) PROVIDE CASING PRESSURE RELIEF VALVE AND PIPING IF CHURN PRESSURE AND STATIC PRESSURE EXCEEDS 175 PSI.

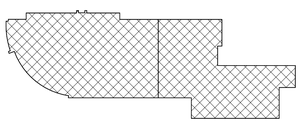
1 TYPICAL FIRE PUMP PIPING ARRANGEMENT
12" = 1'-0"



NOTES:
1. REFER TO FLOOR PLAN FOR EXACT LOCATION OF PIPING AND SIZE PER LATEST EDITION OF NFPA 13.
2. TO SPRINKLER SYSTEM; REFER TO FLOOR PLAN FOR CONNECTION.

2 FIRE SPRINKLER RISER CONNECTION
12" = 1'-0"

KEY PLAN



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DETAILS- FIRE PROTECTION

NO.	DESCRIPTION	DATE
	BID & PERMIT	10/03/25

FP2.1

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ABBREVIATIONS

ABS	ABSOLUTE	MECH	MECHANICAL
AC	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MCM	THOUSAND CIRCULAR MILLS
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER
AMP, A	AMPERE	MH	MANHOLE, MOUNTING HEIGHT
APP	APPROVED	MIN	MINIMUM
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUG ONLY
AVG	AVERAGE	MOD	MOTOR OPERATED DAMPER
BLDG	BUILDING	MTD	MOUNTED
C	CONDUIT	(N)	NEW
CB	CIRCUIT BREAKER	NA	NOT APPLICABLE
COL	COLUMN	N.C.	NORMALLY CLOSED
CONN	CONNECTION	NEUT.	NEUTRAL
CONT	CONTINUED	NIC	NOT IN CONTRACT
CONTR	CONTRACTOR	NL	NIGHT LIGHT ON 24/7
DB	DECIBEL	N.O.	NORMALLY OPEN
DEG	DEGREE	NO.	NUMBER
DIA	DIAMETER	NTS	NOT TO SCALE
DN	DOWN	OD	OUTSIDE DIAMETER
DT	DOUBLE THROW	OH	OVERHEAD
DWG	DRAWING	OHD	OVERHEAD DOOR
(E)	EXISTING	%	PERCENT
E.C.	ELECTRICAL CONTRACTOR	PB	PUSH BUTTON
EF	EXHAUST FAN	PH	PHASE-ELECTRICAL
EL	ELEVATION	PNL	PANEL
ELEC	ELECTRICAL	PVC	POLYVINYL CHLORIDE PIPE
EQ	EQUAL	(R)	REMOVE EXISTING
EQUIP	EQUIPMENT	(RE)	RELOCATE EXISTING
EWC	ELECTRIC WATER COOLER	R&D	RESEARCH & DEVELOPMENT
EWH	ELECTRIC WATER HEATER	REQ	REQUIRED
EXT	EXTERIOR	RM	ROOM
°F	DEGREE FAHRENHEIT	SCH	SCHEDULE
FACP	FIRE ALARM CONTROL PANEL	SF	SQUARE FEET
FBO	FURNISHED BY OTHERS	SPD	SURGE PROTECTION DEVICE
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FDC	FIRE DEPARTMENT CONNECTION	SQ	SQUARE
FHC	FIRE HOSE CABINET	SS	SAFETY SWITCH
FIN	FINISH	ST	SINGLE THROW
FF	FINISHED FLOOR	STD	STANDARD
FLR	FLOOR	STL	STEEL
FT	FEET	STRUC	STRUCTURAL
FU,F	FUSED	SW	SWITCH
GALV	GALVANIZED	SWBD	SWITCHBOARD
GFCI	GROUND-FAULT CURRENT- INTERRUPTER	SWGR	SWITCHGEAR
GRD, GND	GROUND	TEMP	TEMPERATURE
GWH	GAS WATER HEATER	TEL	TELEPHONE
HC	HANDICAP	THERM	THERMOMETER
HP	HORSEPOWER	TYP	TYPICAL
HR	HOUR	UG	UNDERGROUND
HT	HEIGHT	UH	UNIT HEATER
HTR	HEATER	UL	UNDERWRITER'S LABORATORY
HV	HIGH VOLTAGE	U.O.N.	UNLESS OTHERWISE NOTED
HVAC	HEATING VENTILATION AIR CONDITIONING	UTIL	UTILITY
HZ	FREQUENCY-ELECTRICAL	V	VOLTS
ID	INSIDE DIAMETER	VB	VACUUM BREAKER
ID	INDIRECT DRAIN	VERT	VERTICAL
JB	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE
KV	KILOVOLTS	VIF	VERIFY IN FIELD
KVA	KILOVOLT AMPERE	VPC	VIA PHOTOCELL
KW	KILOWATT	VTC	VIA TIME CLOCK
KWH	KILOWATT HOUR	W	WIRE
LF	LINEAR FEET	W/	WITH
LV	LOW VOLTAGE	WP	WEATHERPROOF
MAU	MAKE-UP AIR UNIT	W/O	WITHOUT
MAX	MAXIMUM	XFMR	TRANSFORMER
MCB	MAIN CIRCUIT BREAKER	YR	YEAR

GENERAL NOTES

1. ALL WORK IS TO CONFORM WITH THE 2020 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE CODES, REGULATIONS AND STANDARDS. NOT ALL CODE REQUIREMENTS HAVE BEEN DESCRIBED IN THIS SPECIFICATION OR INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE CODES AND INSTALL THE WORK IN ACCORDANCE WITH CODES.
2. OBTAIN AND PAY FOR ALL BUILDING PERMITS, INSPECTIONS, CONNECTION CHARGES, AND FEES.
3. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION NECESSARY TO INSTALL COMPLETE OPERATING ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING ALL SITE WORK ON THE SITE AND WITHIN THE PROPOSED CONSTRUCTION AREAS TO ACCOMPLISH THE REQUIRED WORK.
4. THE CONTRACTOR IS TO BE RESPONSIBLE FOR COORDINATION OF ALL WORK ASSOCIATED WITH THE ELECTRIC UTILITY COMPANY. MAKE ALL ARRANGEMENTS IN A TIMELY FASHION FOR CONNECTION OF THE ELECTRICAL SERVICE.
5. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE TAKEN AS A WHOLE. IF A CONFLICT OR CONTRADICTION EXISTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT WILL APPLY. THE ARCHITECT'S AND ENGINEER'S INTERPRETATION OF THE DOCUMENTS ARE TO BE BINDING UPON THE CONTRACTOR.
6. PROVIDE SHOP DRAWINGS OF ALL EQUIPMENT FOR REVIEW PRIOR TO ORDERING. COORDINATE ALL PHYSICAL DIMENSIONS PRIOR TO SHOP DRAWING SUBMISSION.
7. IF THE CONTRACTOR ELECTS TO SUBMIT ALTERNATE EQUIPMENT, MANUFACTURERS, SYSTEMS, METHODS, OR MATERIALS NOT SPECIALLY IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK WITH OTHER TRADES AND PAY FOR ANY ADDITIONAL COSTS ASSOCIATED WITH THE SUBSTITUTION OR CHANGE.
8. THE CONTRACTOR IS TO SURVEY AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID SUBMISSION AND BECOME AWARE OF ALL CONDITIONS WHICH MAY IMPACT THE REQUIRED WORK. CONTRACTOR IS TO INCLUDE ALL ASSOCIATED COSTS (MATERIALS/ LABOR) DETERMINED TO BE REQUIRED DURING SITE INSPECTIONS. CONTRACTOR'S BID SUBMISSION IS TO BE CONSIDERED PROOF THAT THIS REQUIREMENT HAS BEEN MET.
9. FINAL LOCATIONS OF ALL DEVICES IN FINISHED SPACES ARE TO BE COORDINATED, AND APPROVED BY THE ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
10. COORDINATE LOCATIONS AND ROUGH-IN REQUIREMENTS WITH ALL TRADES PRIOR TO INSTALLATION.
11. PROVIDE 3/8" = 1'-0" SCALE DRAWINGS OF THE MAIN ELECTRICAL ROOM INDICATING ALL ELECTRICAL, MECHANICAL, PLUMBING, TELEPHONE, SECURITY, FIRE ALARM, AND LIFE SAFETY EQUIPMENT TO BE INSTALLED WITHIN THIS ROOM. ALL EXACT DIMENSIONS OF EQUIPMENT, PADS, ETC., ARE TO BE INDICATED. PROVIDE TWO CROSS-SECTIONS AT IMPORTANT POINTS. OBTAIN INFORMATION FROM OTHER SUB-CONTRACTORS AS NEEDED, AND APPROPRIATE. SUBMIT THE ABOVE FOR REVIEW, AND APPROVAL ALONG WITH ELECTRICAL EQUIPMENT SUBMITTALS. EQUIPMENT WILL NOT BE APPROVED PRIOR TO REVIEW OF THIS DRAWING.
12. PROVIDE ADDRESSABLE FIRE ALARM SYSTEM WITH BATTERY BACKUP, HORN/ STROBES, MANUAL PULL STATIONS, DETECTORS, STROBES, DUCT DETECTORS, REMOTE ANNUNCIATOR, ELEVATOR CONTROLS (FOR RECALL AND DE-ENERGIZING), TELEPHONE AUTO DIALER, FIRE-FIGHTER PHONES, AND ALL ASSOCIATED CONTROLS, AND APPURTENANCES.
13. PROVIDE POWER TO HVAC AND PLUMBING EQUIPMENT AS REQUIRED FOR COMPLETE, OPERATIONAL SYSTEMS.
14. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE ALL INDOOR HVAC EQUIPMENT POWER WIRING FROM THE EXTERIOR CONDENSING UNIT OR HEAT PUMP AS REQUIRED BY THE SYSTEM MANUFACTURER.
15. PROVIDE LIGHTING THROUGH-OUT, WITH EXTERIOR LIGHTING AT ALL EGRESS DOORS.
16. THE CONTRACTOR IS TO BE RESPONSIBLE FOR SELECTING PARTICULAR MOUNTING ARRANGEMENTS OF FIXTURES TO SUIT THE CONSTRUCTION, OR CEILING TYPE. THE CONTRACTOR OR HIS AGENT IS TO REVIEW ALL ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS TO VERIFY ALL CEILING TYPES PRIOR TO PREPARING SHOP DRAWINGS FOR SUBMISSION. IT IS NOT TO BE UNDERSTOOD THAT THE LIGHTING FIXTURE SCHEDULE ACCOUNTS FOR THE MOUNTING TYPES. CEILING TYPES ARE FREQUENTLY CHANGED AFTER THE SCHEDULE HAS BEEN COMPLETED.
17. FIXTURES AND DEVICES RECESSED IN A FIRE-RATED CEILING ARE TO BE PROVIDED WITH A FIRE-RATED ENCLOSURE THAT MAINTAINS THE FIRE-RATING OF THE CEILING SYSTEM. THE INSTALLATION OF THE ENCLOSURE IS TO MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. WHERE APPLICABLE, FIXTURES AND DEVICES ARE TO BE RATED FOR INSULATION CONTACT (IC) FOR HIGH-TEMPERATURE OPERATION.
18. ALL ROOMS ARE TO BE PROVIDED WITH LIGHTING CONTROLS. PROVIDE MANUAL SWITCH(ES) AND APPROPRIATE, CODE-REQUIRED LIGHTING CONTROL DEVICES, WIRING METHODS, AND COMPONENTS.
19. PROVIDE EGRESS AND EMERGENCY LIGHTING AS REQUIRED BY CODE IN ALL SPACES TO MEET REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. ALLOW FOR TEN ADDITIONAL FIXTURES TO BE INSTALLED WHERE DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
20. PROVIDE GROUNDING SYSTEM FOR FACILITY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
21. PROVIDE ROOF PENETRATIONS FOR ALL ASSOCIATED ELECTRICAL WORK.
22. ALL DEVICES ARE TO BE INSTALLED SQUARE, LEVEL, PLUMB, AND TRUE.
23. SWITCH PLATES AND OUTLET BACKBOXES ARE NOT TO BE INSTALLED BACK-TO-BACK IN ADJACENT ROOMS. BACKBOX LOCATIONSARE TO BE OFFSET A MINIMUM OF 0'-3" TO REDUCE NOISE TRANSFER. THIS APPLIES TO RECEPTACLES, LIGHTING FIXTURES, TV OUTLETS, TELEPHONE OUTLETS, AND DATA OUTLETS.
24. ALL DEVICES LOCATED ON OPPOSING SIDES OF A FIRE-RATED WALL ASSEMBLY ARE TO BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 2'-0".
25. GROUND FAULT CIRCUIT INTERRUPTERS ARE TO BE PROVIDED FOR ALL OUTDOOR RECEPTACLE CIRCUITS, RECEPTACLE CIRCUITS WITHIN TOILET AND BATHROOMS, AREAS IN CLOSE PROXIMITY TO WATER, AND WHEREVER ELSE INDICATED ON THE DRAWINGS OR AS REQUIRED BY CODE. WHILE-IN-USE TYPE COVERS ARE TO BE USED FOR ALL EXTERIOR LOCATIONS.
26. PROVIDE CODE REQUIRED SIGNAGE (I.E., NEC 110.34, NEC 700.8, AND 695.4 B3).
27. PROVIDE THIRD-PARTY CERTIFICATION OF ALL PACKAGED SYSTEMS BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) IN ACCORDANCE WITH OSHA FEDERAL REGULATIONS 29CFR1910.303 AND .399 AS WELL AS PAMPHLET #70 AND NATIONAL ELECTRICAL CODE ARTICLE 90-7.
28. ALL EQUIPMENT PANELS, CONTROLS, SAFETY SWITCHES, AND DEVICES ARE TO BE PROVIDED WITH PERMANENT BLACK LAMINATED MICARTA WHITE CORE LABELS WITH 3/8" LETTERS. THIS ALSO APPLIES TO ALL CONTROLLERS, REMOTE START/ STOP PUSHBUTTONS, EQUIPMENT CABINETS, AND WHERE DIRECTED BY THE ARCHITECT AND ENGINEER. THIS REQUIREMENT DOES NOT APPLY TO INDIVIDUAL ROOM THERMOSTATS, AND LOCAL LIGHTING CONTROL DEVICES.
29. ALL THREE PHASE STARTER EQUIPMENT IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR AND IS TO BE MAGNETIC, ACROSS-THE-LINE WITH AUXILIARY CONTACTS. ALL SINGLE PHASE STARTER EQUIPMENT IS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
30. ALL WORK IS TO BE CONCEALED, UNLESS OTHERWISE INDICATED.
31. ALL EXPOSED INTERIOR WIRING, PANEL FEEDERS, HOME RUNS, AND EQUIPMENT FEEDERS ARE TO BE INSTALLED IN EMT (ELECTRICAL METALLIC TUBING). ALL EMT IS TO BE SECURELY FASTENED AT INTERVALS NOT EXCEEDING 10-0" AND WITHIN 3'-0" OF ALL BOXES. NOTE: "EXPOSED" INDICATES ALL WIRING METHODS NOT INSTALLED WITHIN WALLS, ABOVE SUSPENDED CEILINGS, OR WITHIN A PRE-MANUFACTURED RACEWAY. ANY EXPOSED RACEWAY IN A FINISHED SPACE IS TO BE COORDINATED WITH THE ARCHITECT/ ENGINEER PRIOR TO INSTALLATION.
32. ALL CONCEALED BRANCH CIRCUIT WIRING METHODS INSTALLED ABOVE SUSPENDED CEILINGS, AND IN STUD PARTITIONS IS TO BE MC (METAL CLAD) CABLE. MC CABLE IS TO BE SECURELY FASTENED AT INTERVALS NOT EXCEEDING 4'-6", AND WITHIN 1'-0" OF ALL BOXES AND/OR FITTINGS.
33. PROPERLY INSTRUCT OWNERS PERSONNEL IN THE OPERATION AND MAINTENANCE OF ALL SYSTEMS AND EQUIPMENT. PROVIDE THREE INSTRUCTION AND MAINTENANCE MANUALS. SUBMIT MANUALS FOR REVIEW PRIOR TO OPERATING INSTRUCTION.
34. PROVIDE ONE SET OF ELECTRONIC AS-BUILT DRAWINGS AT COMPLETION OF WORK. SUBMIT TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.

PROJECT DEDUCT/ ADD ALTERNATES

DRAWING LIST

NUMBER	NAME	DEMO PACKAGE PH 1 11/04/24	SCHEMATIC DESIGN 10/25/24	ADDENDUM 2 02/05/25	DESIGN DEVELOPMENT 02/21/25	50% CD PROGRESS SET 06/05/2025	75% CD SET 08/22/25	BID/PERMIT SET 10/03/25	Current Revision	Current Revision Date	Current Revisions
E0.1	COVER SHEET- ELECTRICAL	•	•		•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
ED2.0a	GROUND FLOOR DEMOLITION PLAN AREA A- PH 2- ELECTRICAL		•		•	•	•	•			
ED2.1a	FIRST FLOOR DEMOLITION PLAN AREA A- PH 2- ELECTRICAL		•		•	•	•	•			
ED2.1b	FIRST FLOOR DEMOLITION PLAN AREA B- PH 2- ELECTRICAL		•		•	•	•	•			
ED2.2a	SECOND FLOOR DEMOLITION PLAN AREA A- PH 2- ELECTRICAL		•		•	•	•	•			
ED2.2b	SECOND FLOOR DEMOLITION PLAN AREA B-PH 2- ELECTRICAL		•		•	•	•	•			
E1.0a	GROUND FLOOR NEW CONSTRUCTION PLAN AREA A- LIGHTING		•		•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
E1.0b	GROUND FLOOR NEW CONSTRUCTION PLAN AREA B- LIGHTING		•		•	•	•	•			
E1.1a	FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- LIGHTING		•		•	•	•	•			
E1.1b	FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- LIGHTING		•		•	•	•	•			
E1.2a	SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- LIGHTING		•		•	•	•	•			
E1.2b	SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- LIGHTING		•		•	•	•	•			
E1.3a	GROUND FLOOR NEW CONSTRUCTION PLAN AREA A- POWER				•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
E1.3b	GROUND FLOOR NEW CONSTRUCTION PLAN AREA B- POWER				•	•	•	•			
E1.4a	FIRST FLOOR NEW CONSTRUCTION PLAN AREA A- POWER		•		•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
E1.4b	FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- POWER		•		•	•	•	•			
E1.5a	SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- POWER		•		•	•	•	•			
E1.5b	SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- POWER		•		•	•	•	•			
E1.6a	ROOF PLAN NEW CONSTRUCTION PLAN- ELECTRICAL		•		•	•	•	•			
E1.7	SITE PLAN- ELECTRICAL		•		•	•	•	•			
E2.1	DETAILS- ELECTRICAL		•		•	•	•	•			
E2.2	DETAILS- ELECTRICAL		•		•	•	•	•			
E2.3	DETAILS- ELECTRICAL		•		•	•	•	•	3	04/10/26	CODE UPDATE CHANGES
E2.4	DETAILS- ELECTRICAL		•		•	•	•	•			
E2.5	DETAILS- ELECTRICAL		•		•	•	•	•			

ELECTRICAL SYMBOLS AND ABBREVIATIONS

- S — SINGLE-POLE WALLBOX SWITCH
- S_3 — 3-WAY WALLBOX SWITCH
- S_4 — 4-WAY WALLBOX SWITCH
- S_D — LUMINAIRE CONTROL SYSTEM DIMMER
- S_{A}^{z2a4} — LUMINAIRE CONTROL SYSTEM WALLBOX CONTROL FOR TIMECLOCK PROGRAM OVERRIDE.
  - z — INDICATES AREA OR ZONE OF CONTROL
- S_E — EMERGENCY SHUT-DOWN SWITCH
- S_T — SINGLE-POLE WALLBOX SWITCH WITH INTEGRAL TIMER FUNCTION.
- S_P — SINGLE-POLE WALLBOX SWITCH WITH PILOT LIGHT
- O — DUAL TECHNOLOGY, WALL BOX OCCUPANCY SENSOR WITH OFF/ AUTO OVERRIDE SWITCH
- O — DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR
- V — DUAL TECHNOLOGY, WALL BOX VACANCY SENSOR WITH OFF/ AUTO OVERRIDE SWITCH
- V — DUAL TECHNOLOGY, CEILING MOUNTED VACANCY SENSOR
- R XX — ROOM CONTROLLER WITH 0-10V DIMMING FOR LUMINAIRES. COORDINATE ALL POWER REQUIREMENTS WITH FINAL EQUIPMENT SELECTIONS.
  - TAG (NONE = SINGLE ZONE): 2 = TWO ZONE; EM = PROVIDED WITH UL924 DEVICE
- P XX — 0-10V DIMMING LUMINAIRE CONTROL POWER PACK
  - TAG (NONE = SINGLE ZONE): 2 = TWO ZONE; 3 = THREE ZONE; EM = PROVIDED WITH UL924 DEVICE
- RECESSED, OR SURFACE MOUNTED LED LUMINAIRE CONNECTED TO NORMAL POWER. REFER TO THE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
- RECESSED, OR SURFACE MOUNTED LED LUMINAIRE CONNECTED TO EMERGENCY POWER, OR PROVIDED WITH INTEGRAL BATTERY BACK-UP. REFER TO THE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
- 4'-0", LENSED LED INDUSTRIAL STRIP LUMINAIRE
- LENSED, LED UNDER CABINET LUMINAIRE. LENGTHS AS INDICATED ON PLANS.
- A4 / 2 / a — INDICATES LUMINAIRE TYPE; INDICATES BRANCH CIRCUIT DESIGNATION; INDICATES CONTROL ZONE
- BATTERY PACK EMERGENCY LIGHTING UNIT WITH SOLID STATE CHARGER. CONNECT AHEAD OF ANY SWITCHING. REMOTE CAPABLE WHERE REQUIRED.
- REMOTE EMERGENCY LIGHTING UNIT CONNECTED TO EMERGENCY POWER, OR PROVIDED WITH INTEGRAL BATTERY BACK-UP. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- EXIT SIGN LUMINAIRE: GENERATOR OR BATTERY POWERED
- WALL MOUNTED EXIT SIGN LUMINAIRE: GENERATOR OR BATTERY POWERED

- TV — TELEVISION OUTLET:
  - COMMON AREAS: PROVIDE BACK BOX WITH 3/4"Ø BUSHED CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE. DEVICES, WIRING METHODS, AND TERMINATIONS BY OTHERS. MOUNT 60" ABOVE FINISHED FLOOR TO CENTER OF DEVICE OR AS DIRECTED BY THE OWNER.
  - DWELLING UNITS: PROVIDE BACK BOX WITH 3/4"Ø BUSHED CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE ABOVE STRUCTURED MEDIA ENCLOSURE. DEVICES, WIRING METHODS, AND TERMINATIONS BY OTHERS. MOUNT 20" ABOVE FINISHED FLOOR TO TOP OF DEVICE.
- DATA OUTLET: PROVIDE BACK BOX WITH 3/4"Ø BUSHED CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE. DEVICES, WIRING METHODS, AND TERMINATIONS BY OTHERS.
- W — TELEPHONE OUTLET:
  - INDICATES WALL PHONE MOUNTED 54" A.F.F.
  - COMMON AREAS: PROVIDE BACK BOX WITH 3/4"Ø BUSHED CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE. DEVICES, WIRING METHODS, AND TERMINATIONS BY OTHERS.
  - DWELLING UNITS: PROVIDE BACK BOX WITH 3/4"Ø BUSHED CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE ABOVE STRUCTURED MEDIA ENCLOSURE. DEVICES, WIRING METHODS, AND TERMINATIONS BY OTHERS.
- COMBINATION TELEPHONE/ DATA OUTLET:
  - COMMON AREAS: PROVIDE BACK BOX WITH 1"Ø, BUSHED CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE. DEVICES, WIRING METHODS, AND TERMINATIONS BY OTHERS.
  - DWELLING UNITS: PROVIDE BACK BOX WITH 1"Ø, BUSHED CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE ABOVE STRUCTURED MEDIA ENCLOSURE. DEVICES, WIRING METHODS, AND TERMINATIONS BY OTHERS.
- V WAP — WIRELESS ACCESS POINT (CEILING MOUNTED): POWER-OVER-ETHERNET (NO AC POWER REQUIRED). PROVIDE (2) CAT-6 HOME-RUN TO THE MAIN DATA FRAME. PROVIDE 10'-0" PIGTAIL AT EACH LOCATION.
- XX — SECURITY/ ACCESS CONTROL. DEVICE DERIVES POWER FROM THE SECURITY/ ACCESS CONTROL HEAD-END EQUIPMENT. COORDINATE ALL POWER REQUIREMENTS WITH THE SECURITY/ ACCESS CONTROL VENDOR.
  - "XX" INDICATES DEVICE TYPE: AI = AI PHONE EQUIPMENT; CR = CARD READER; DC = DOOR CONTACT; ES = ELECTRIC DOOR STRIKE; EX = REQUEST TO EXIT; KP = KEY PAD; MD = MOTION DETECTOR; ML = MAGNETIC LOCK; RE = RFID EXCITER
- CCTV WP — CCTV CAMERA (POE)
  - INDICATES WEATHERPROOF, EXTERIOR CAMERA

- SURFACE MOUNTED DISTRIBUTION PANEL SERVED VIA NORMAL POWER FEEDER
- SURFACE MOUNTED LIGHTING, OR POWER BRANCH CIRCUIT PANEL SERVED VIA NORMAL POWER FEEDER
- RECESSED MOUNTED LIGHTING, OR POWER BRANCH CIRCUIT PANEL SERVED VIA NORMAL POWER FEEDER
- M — MOTOR
- S_M — MOTOR RATED SWITCH (PROVIDE MANUAL MOTOR STARTER FOR OVERLOAD PROTECTION, AS REQUIRED)
- UN-FUSED DISCONNECTING MEANS
- XXAF / XXAT — FUSIBLE DISCONNECTING MEANS; XXAF = FRAME CAPACITY; XXAT = TRIP RATING
- XXAF / XXAT CB — ENCLOSED CIRCUIT BREAKER; XXAF = FRAME CAPACITY; XXAT = TRIP RATING
- MOTOR STARTER
- COMBINATION MOTOR STARTER/ DISCONNECTING MEANS
- +XX" A.F.F. — INDICATES HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE(S)
- 3#2 — WIRING METHOD DESIGNATION (CONDUCTOR QUANTITY AND SIZE)
- LP-1 — PANEL, AND POLE SPACE DESIGNATION (CONCEALED WIRING METHOD)
- CONCEALED BRANCH CIRCUIT WIRING METHOD
- J — JUNCTION BOX
- XX — DUPLEX RECEPTACLE DEVICE
  - TAG: C = DEVICE MOUNTED 0'-8" ABOVE COUNTER TOP; D = DEDICATED OVERCURRENT PROTECTION DEVICE; T = TAMPER RESISTANT DEVICE; U = INTEGRAL USB OUTLETS
- GFCI (GROUND-FAULT CIRCUIT-INTERRUPTER) DUPLEX RECEPTACLE DEVICE FOR PERSONAL PROTECTION
- a — SWITCHED (BOTTOM OUTLET) DUPLEX RECEPTACLE DEVICE
  - INDICATES CORRESPONDING CONTROL DEVICE
- SINGLE RECEPTACLE DEVICE FOR EQUIPMENT
- DOUBLE DUPLEX RECEPTACLE DEVICE
- SPECIAL RECEPTACLE DEVICE (COORDINATE NEMA CONFIGURATION WITH FINAL EQUIPMENT SELECTIONS)
- WX, OR FX — POWER, CCTV, OR CATV; W = WALL SOURCE; F = FLOOR SOURCE; X = 2, 3, OR 4 GANG BOX
- WX, OR FX — FLUSH MOUNTED, ADJUSTABLE FLOOR BOX WITH POWER, IG POWER, AND VOICE/ DATA OUTLETS; W = WALL SOURCE; F = FLOOR SOURCE; X = 2, 3, OR 4 GANG BOX
- PUSH-BUTTON DEVICE
- ON/ OFF PUSH-BUTTON DEVICE
- THREE FUNCTION PUSH-BUTTON DEVICE (UP/ DOWN/ STOP)
- VC — VOLUME CONTROL DEVICE: PROVIDE BACK BOX WITH 3/4"Ø BUSHED CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE. DEVICES, WIRING METHODS, AND TERMINATIONS BY OTHERS. MOUNT 48" ABOVE FINISHED FLOOR TO CENTER OF DEVICE OR AS DIRECTED BY THE OWNER.
- M — MICROPHONE OUTLET

PREVENT SECURITY SYSTEM SYMBOLS

- IC-AV — AIPHONE AUDIO/VIDEO DOOR STATION
- IC-A — AIPHONE AUDIO DOOR STATION
- C — HIKVISION INDOOR FIXED CAMERA
- C WP — HIKVISION OUTDOOR FIXED CAMERA
- C E — HIKVISION ELEVATOR CAMERA
- C — HIKVISION INDOOR 360° CAMERA
- C WP — HIKVISION OUTDOOR 360° CAMERA
- CR — CARD READER, ACCENTURA UPDATER
- DOOR ACTUATOR
- AD — AIPHONE DESK STATION/DOOR ACTUATOR
- S — VISUAL INDICATOR- STROBE
- W — WIRELESS YALE NEXTTOUCH LOCK

CONTRACTOR NOTES

THIS IS A **MULTIPLE PRIME CONTRACT** PROJECT.
CONTRACTOR SHALL REFER TO THE "PRIME CONTRACTOR CHECKLIST" SECTION 011201 OF THE SPECIFICATIONS FOR A DETAILED DIVISIONS OF RESPONSABILITIES.

ALL PRIME CONTRACTORS TO CONDUCT A PRE-INSTALLATION MEETING IN THE FIELD TO DETERMINE THE SPECIFIC LOCATION OF ALL MISCELLANEOUS WALL DEVICES. THE CONTRACTOR AND ARCHITECT TO LOCATE DEVICES INCLUDING BUT NOT LIMITED TO: TV MONITOR BACK BOXES, FIRE ALARM STROBES, FIRE ALARM PULLS, ANNUNCIATOR PANELS, ELECTRICAL SWITCHES, CALL BOXES, AUTOMATIC DOOR ACTUATORS, FIRE EXTINGUISHERS, THERMOSTATS, ETC.

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MICHAEL WITKOWSKI — ENGINEER — 05/05/2026

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COVER SHEET - ELECTRICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DEMO PACKAGE PH 1	11/04/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25
3	CODE UPDATE CHANGES	04/10/26

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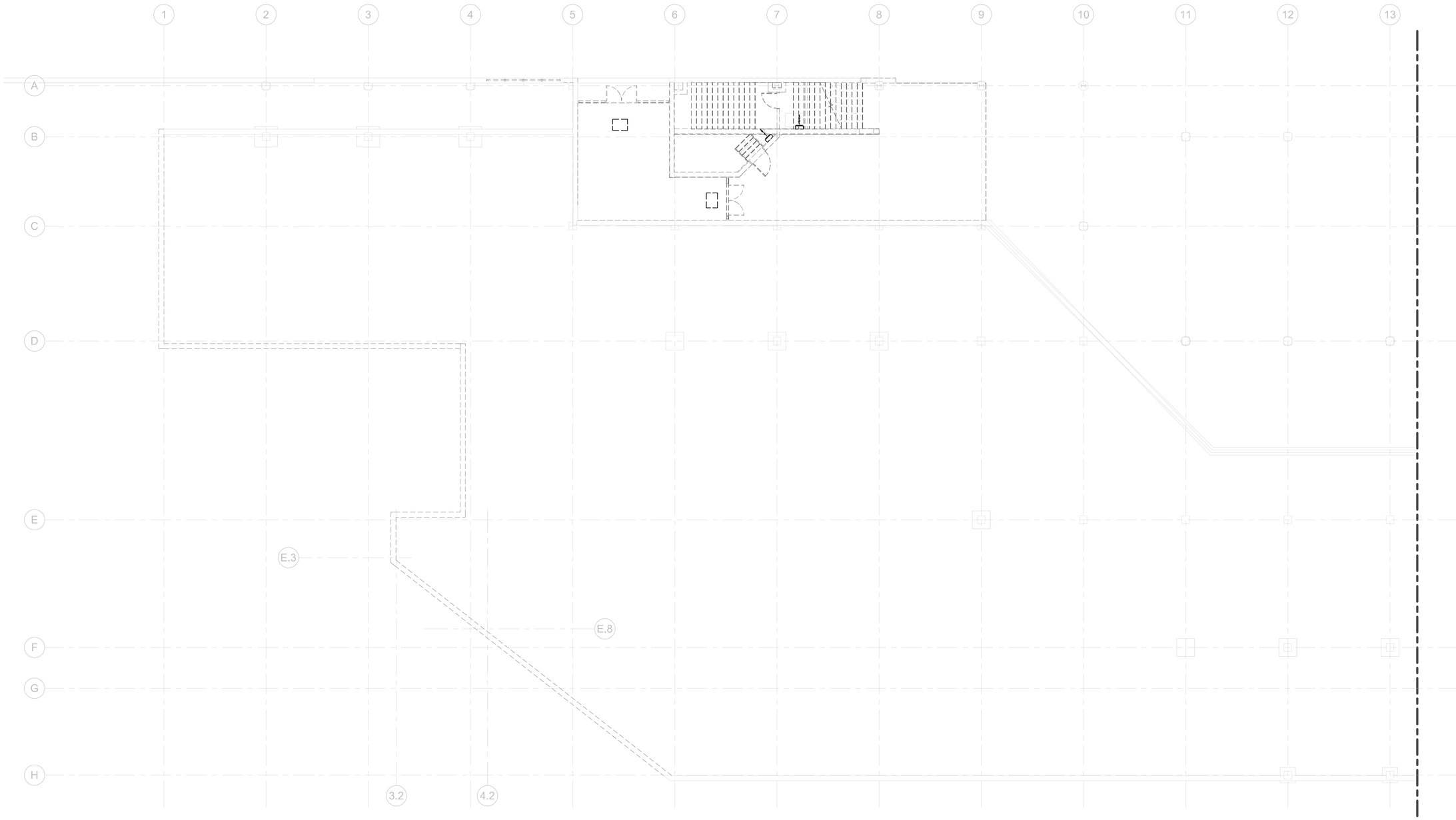


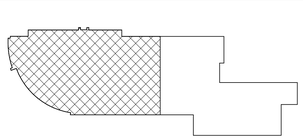
1 GROUND FLOOR DEMOLITION PLAN- PH 2 AREA A- ELECTRICAL

1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES:

1. ELECTRICAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR ANY WORK.
2. REMOVE ALL WIRING DEVICES, LUMINARES AND CONTROL DEVICES, AND ALL ASSOCIATED WIRING METHODS IN AREAS OF RENOVATION THAT ARE NOT REQUIRED FOR EGRESS, UNLESS OTHERWISE NOTED.
3. REMOVE BRANCH CIRCUIT WIRING METHODS TO POINT OF ORIGIN (OR TO ITS NEAREST ACTIVE DEVICE). RESTORE ALL CIRCUITS INTERRUPTED BY DEMOLITION WORK TO MAINTAIN CIRCUIT CONTINUITY.
4. ALL OVERCURRENT PROTECTION DEVICES THAT BECOME "SPARE" AS A RESULT OF DEMOLITION WORK ARE TO BE LABELED SET IN THE "OFF" POSITION AND LABELED "SPARE".
5. ALL PANELBOARDS AFFECTED BY RENOVATION WORK ARE TO BE PROVIDED WITH UPDATED DIRECTORIES.
6. FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL AND ARE TO BE PROPERLY PROTECTED DURING CONSTRUCTION. REINSTALL EXISTING DEVICES IN NEW CEILINGS.
7. ALL POWER SHUTDOWNS ARE TO BE SCHEDULED AND COORDINATED WITH OWNER.
8. ALL OPENINGS IN THE ENVELOPE LEFT FROM THE REMOVAL OF EXISTING DEVICES ARE TO BE PATCHED TO MAINTAIN THE INTEGRITY OF THE ENVELOPE.
9. THE INTENT IS FOR THE SECURITY AND FIRE ALARM SYSTEMS TO REMAIN ACTIVE DURING DEMOLITION.
10. THE INTENT IS FOR ALL ADJACENT AREAS TO REMAIN ENERGIZED DURING CONSTRUCTION. THE CONTRACTOR IS TO MODIFY ALL EXISTING WIRING METHODS TO FACILITATE THIS INTENT.
11. THE INTENT IS TO REMOVE ALL ELECTRICAL WIRING DEVICES WHICH INTERFERE WITH NEW CONSTRUCTION WORK, OR DEMOLITION WORK WHETHER SPECIFICALLY IDENTIFIED OR NOT.

KEY PLAN



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GROUND FLOOR DEMOLITION PLAN AREA A- PH 2- ELECTRICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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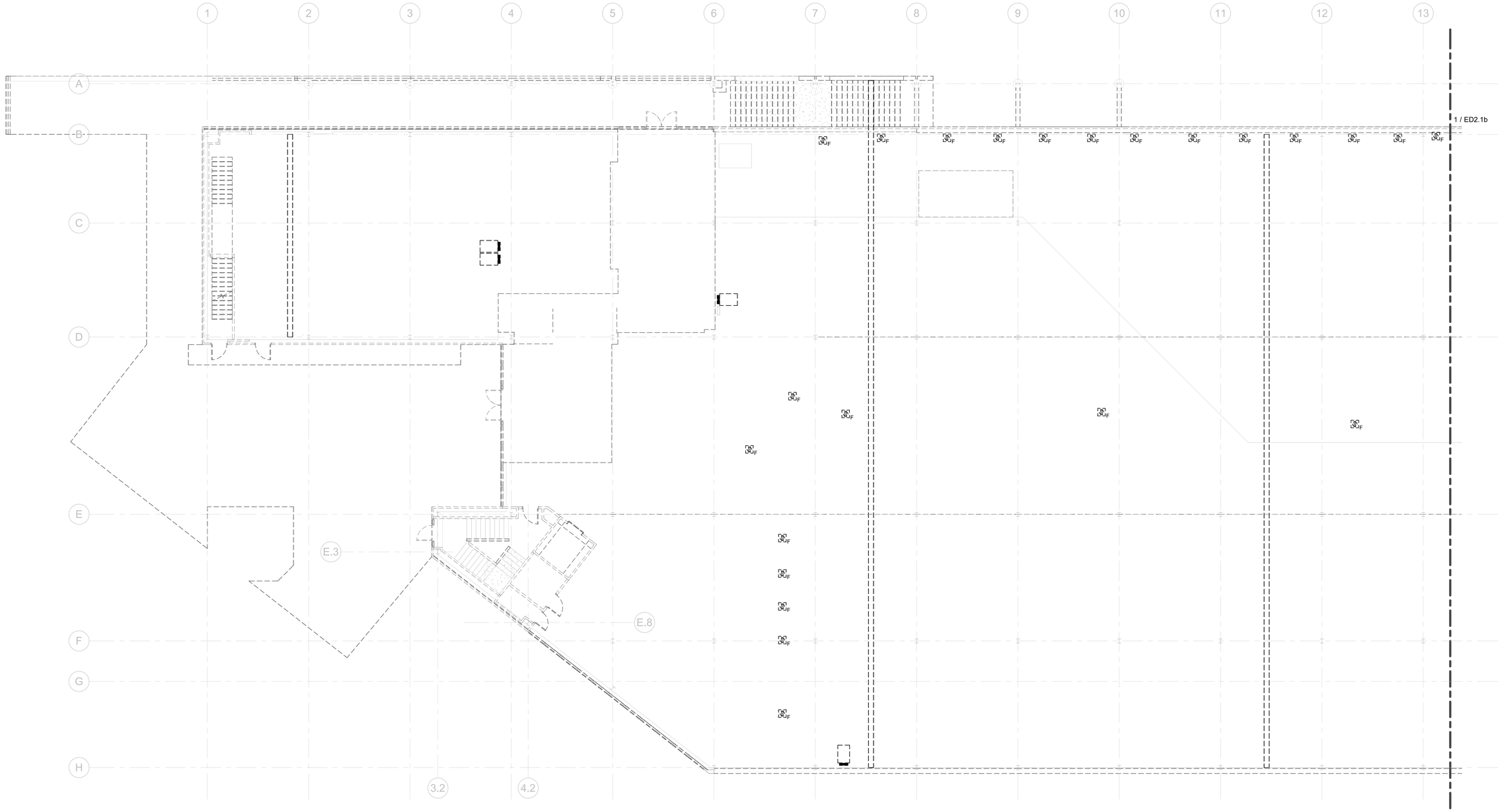

1 FIRST FLOOR DEMOLITION PLAN- PH 2- AREA A- ELECTRICAL
1/8" = 1'-0"

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1. ELECTRICAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR ANY WORK.
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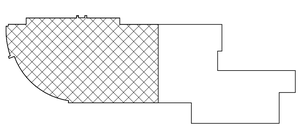

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FIRST FLOOR DEMOLITION PLAN AREA A- PH 2- ELECTRICAL

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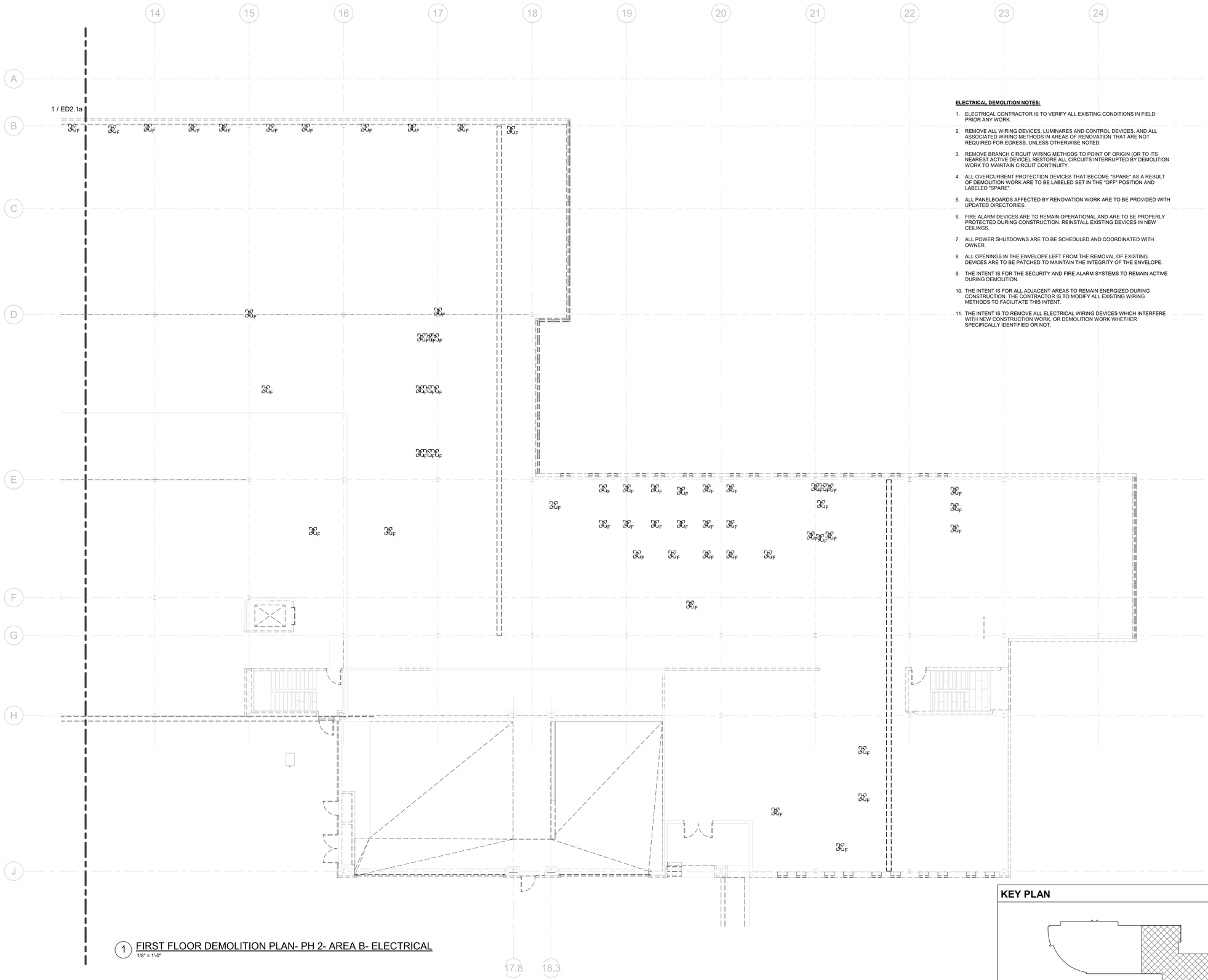

1 FIRST FLOOR DEMOLITION PLAN- PH 2- AREA B- ELECTRICAL
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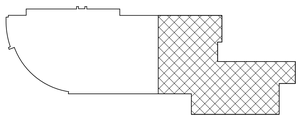

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FIRST FLOOR DEMOLITION PLAN AREA B- PH 2- ELECTRICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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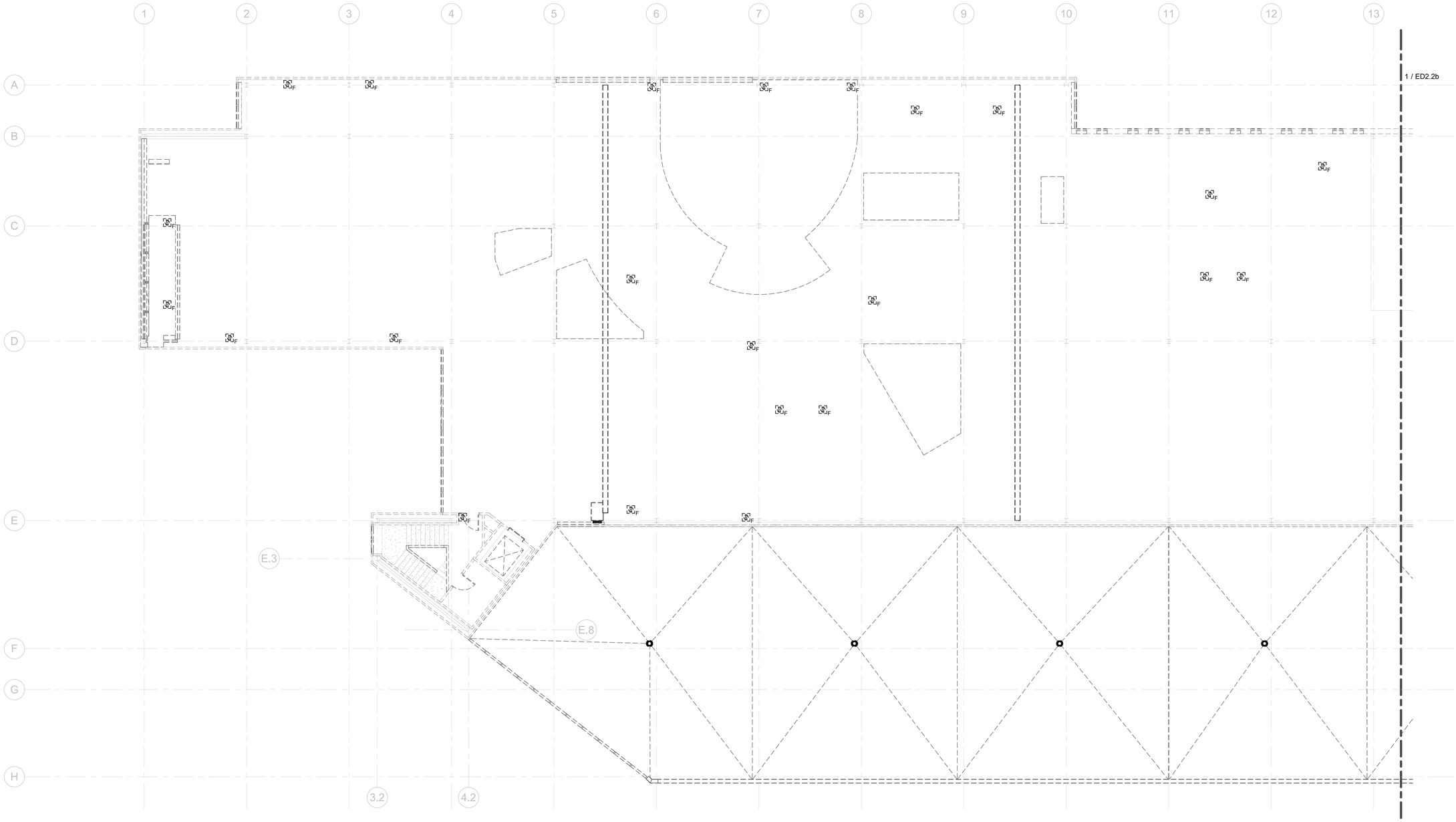

1 SECOND FLOOR DEMOLITION PLAN- PH 2- AREA A- ELECTRICAL
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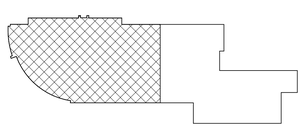

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SECOND FLOOR DEMOLITION PLAN AREA A- PH 2- ELECTRICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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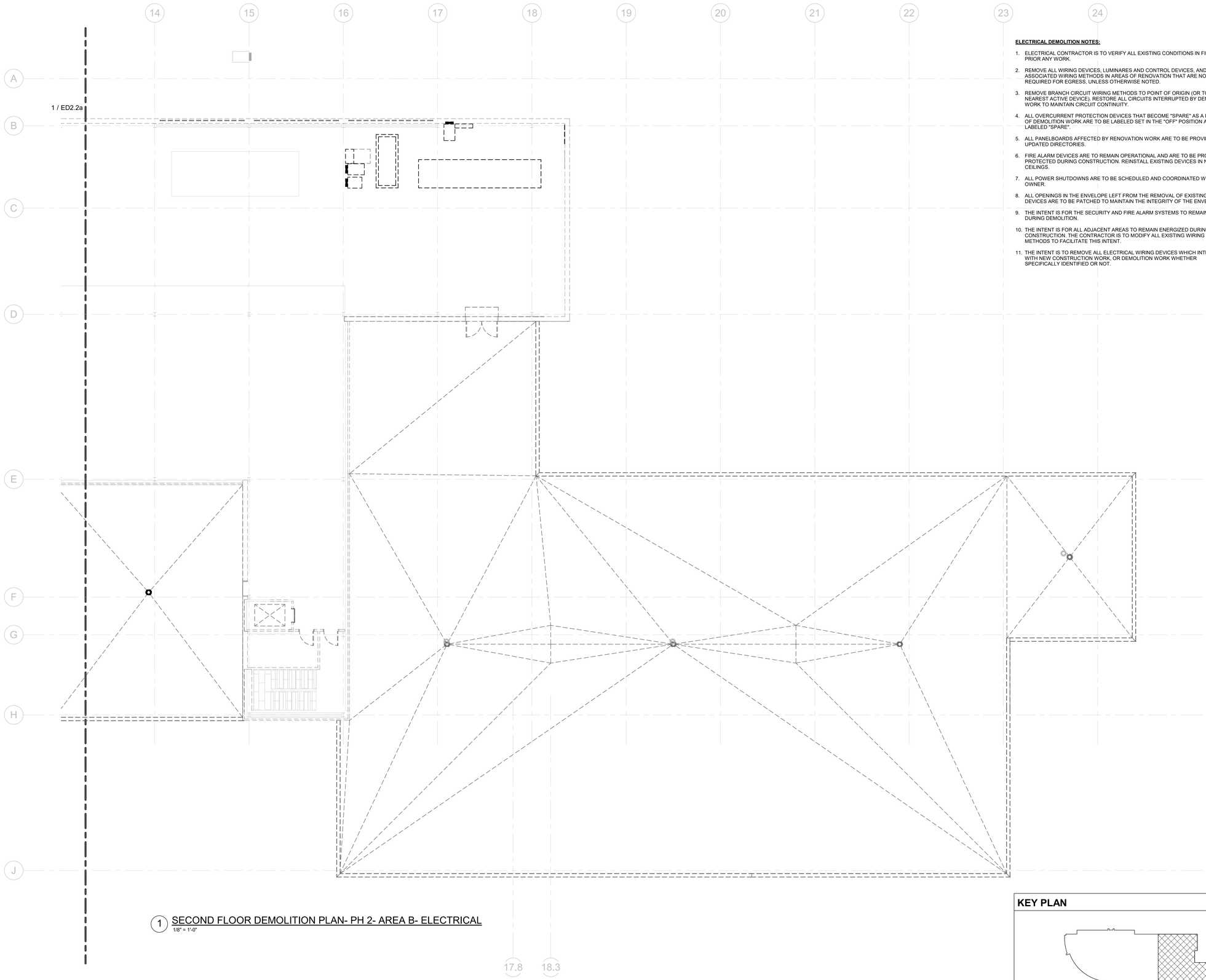

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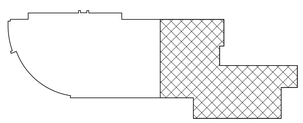

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SECOND FLOOR DEMOLITION PLAN AREA B-PH 2-ELECTRICAL

NO.	DESCRIPTION	DATE
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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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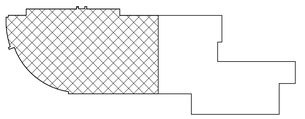
1 GROUND FLOOR- NEW CONSTRUCTION PLAN AREA A- LIGHTING

1/8" = 1'-0"

GENERAL LUMINAIRE NOTES:

1. ALL EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA PANEL "1FL".
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES AND EXIT SIGNAGE ARE TO BE CIRCUITED VIA EMERGENCY PANEL "LS".
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL.
6. UNLESS OTHERWISE NOTED, ALL OCCUPANCY SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
8. ALL LUMINAIRE BRANCH CIRCUIT HOME-RUNS ARE TO BE WIRED VIA THE BUILDING MECHANICAL CONTROL CABINET. CONTROL CABINET IS TO BE PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONTROL PROGRAMMING OF ALL LUMINAIRE CIRCUITS WITH THE ARCHITECT AND THE MECHANICAL CONTRACTOR.
9. MECHANICAL CONTRACTOR IS TO PROVIDE LOW VOLTAGE, PUSHBUTTON, DIGITAL CONTROL DEVICE FOR PROGRAMMED OCCUPANT OVERRIDE OF AUTOMATIC LUMINAIRE SHUTOFF FOR A MAXIMUM OF TWO HOURS (REFER TO ASHRAE/ IESNA STANDARD 90.1). DEVICE IS TO BE WIRED VIA THE BUILDING MECHANICAL/ LUMINAIRE CONTROL CABINET.
10. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED
11. PRVOIDE ALLOWANCE FOR AN ADDITONAL 12 EXIT SIGNS.

KEY PLAN



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GROUND FLOOR NEW CONSTRUCTION PLAN AREA A- LIGHTING

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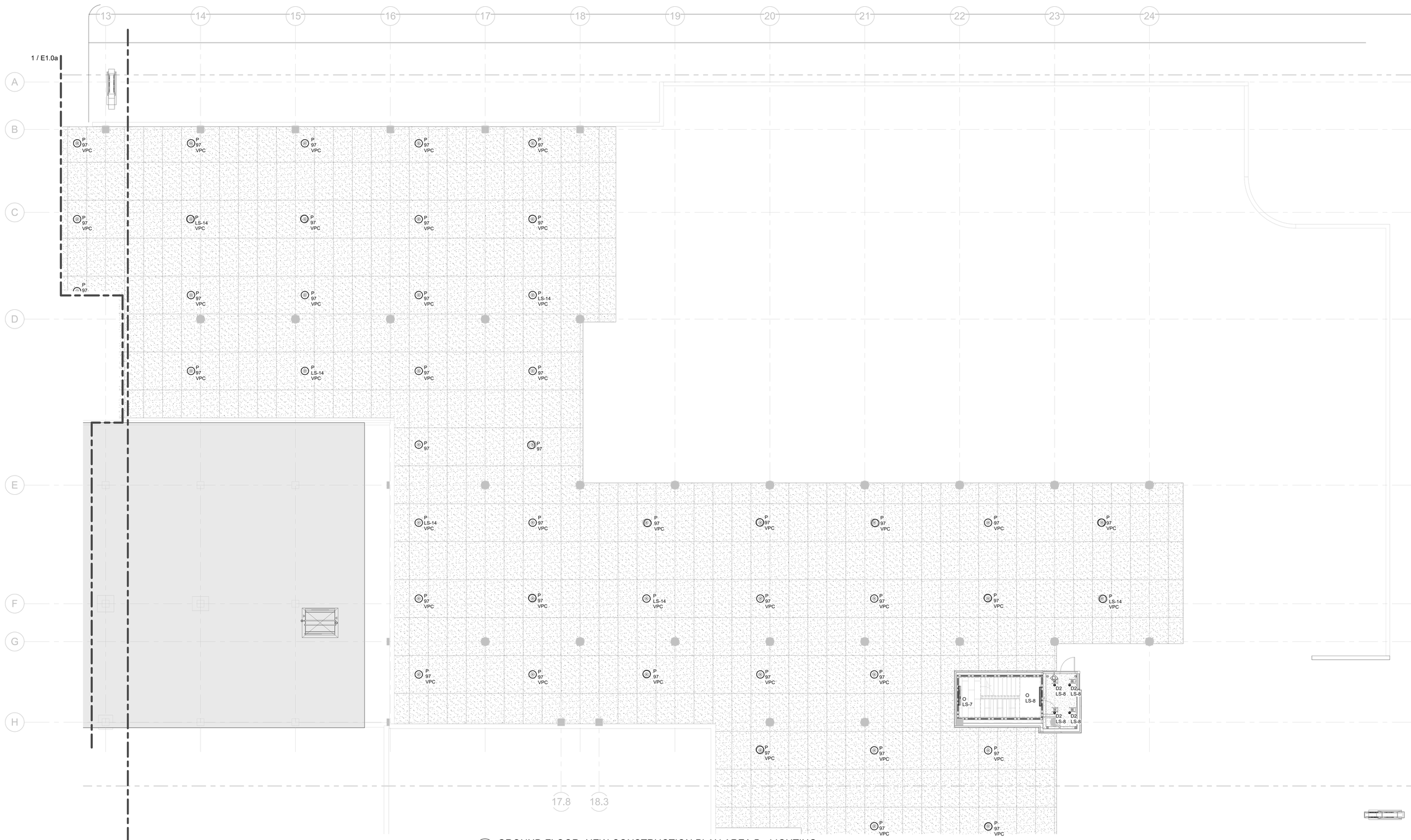

2 GROUND FLOOR- NEW CONSTRUCTION PLAN AREA B- LIGHTING

1/8" = 1'-0"

GENERAL LUMINAIRE NOTES:

1. ALL EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
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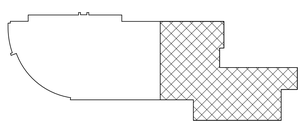
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES AND EXIT SIGNAGE ARE TO BE CIRCUITED VIA EMERGENCY PANEL "LS".
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL.
6. UNLESS OTHERWISE NOTED, ALL OCCUPANCY SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
8. ALL LUMINAIRE BRANCH CIRCUIT HOME-RUNS ARE TO BE WIRED VIA THE BUILDING MECHANICAL CONTROL CABINET. CONTROL CABINET IS TO BE PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONTROL PROGRAMMING OF ALL LUMINAIRE CIRCUITS WITH THE ARCHITECT AND THE MECHANICAL CONTRACTOR.
9. MECHANICAL CONTRACTOR IS TO PROVIDE LOW VOLTAGE, PUSHBUTTON, DIGITAL CONTROL DEVICE FOR PROGRAMMED OCCUPANT OVERRIDE OF AUTOMATIC LUMINAIRE SHUTOFF FOR A MAXIMUM OF TWO HOURS (REFER TO ASHRAE/ IESNA STANDARD 90.1). DEVICE IS TO BE WIRED VIA THE BUILDING MECHANICAL/ LUMINAIRE CONTROL CABINET.
10. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED
11. PRVOIDE ALLOWANCE FOR AN ADDITONAL 12 EXIT SIGNS.

KEY PLAN



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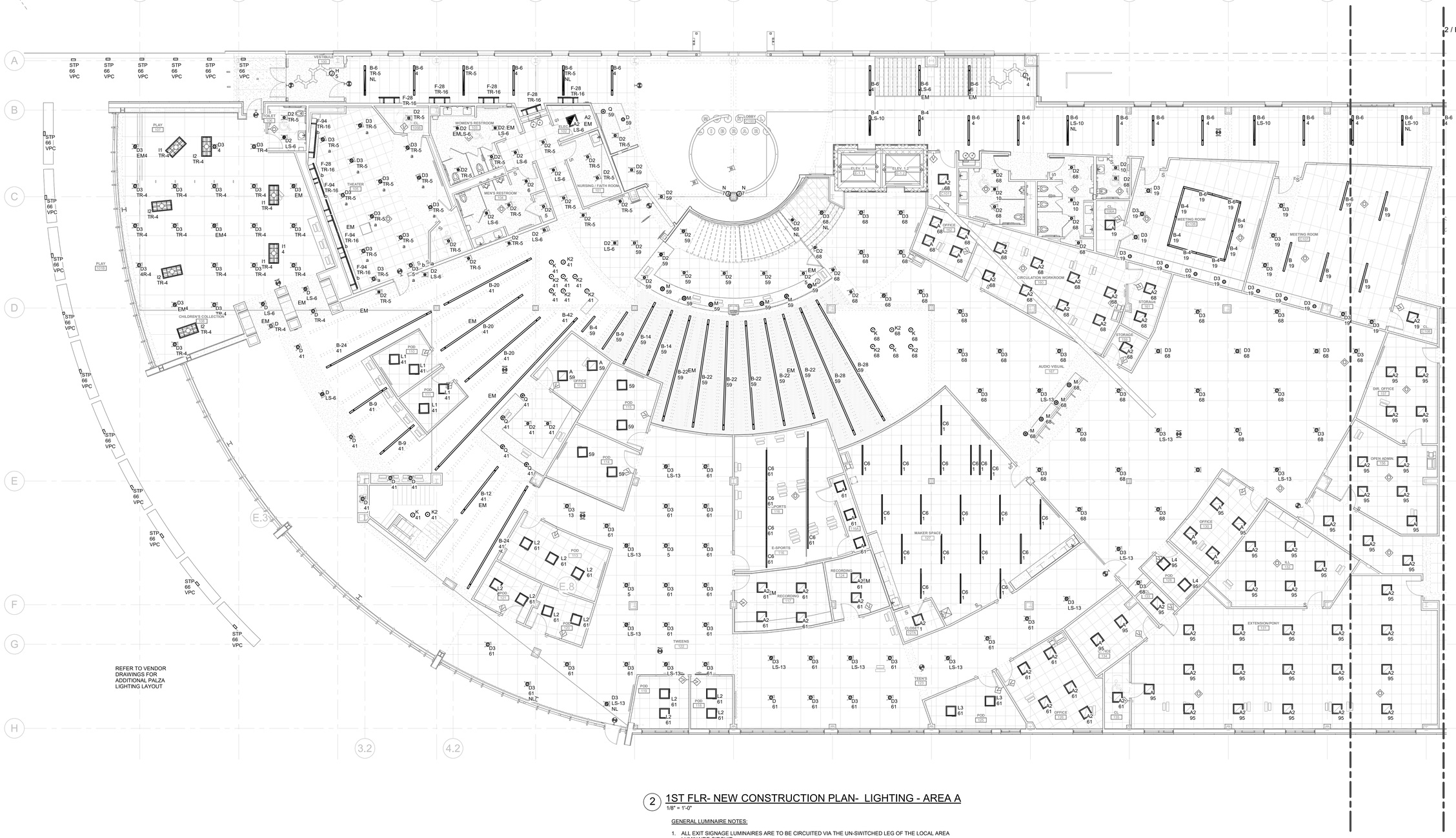
SCALE:AS NOTED

GROUND FLOOR NEW CONSTRUCTION PLAN AREA B- LIGHTING

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.0b

4/21/2026 10:24:40 PM



2 1ST FLR- NEW CONSTRUCTION PLAN- LIGHTING - AREA A

1/8" = 1'-0"

GENERAL LUMINAIRE NOTES:

1. ALL EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA PANEL "1FL".
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES AND EXIT SIGNAGE ARE TO BE CIRCUITED VIA EMERGENCY PANEL "LS".
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL.
6. UNLESS OTHERWISE NOTED, ALL OCCUPANCY SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
7. CONTRACTOR IS TO PROVIDE A MANUALLY CONTROLLED, OVERRIDE WALL BOX DEVICE FOR ROOM OCCUPANCY SENSORS.
8. ALL LUMINAIRE BRANCH CIRCUIT HOME-RUNS ARE TO BE WIRED VIA THE BUILDING MECHANICAL CONTROL CABINET. CONTROL CABINET IS TO BE PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONTROL PROGRAMMING OF ALL LUMINAIRE CIRCUITS WITH THE ARCHITECT AND THE MECHANICAL CONTRACTOR.
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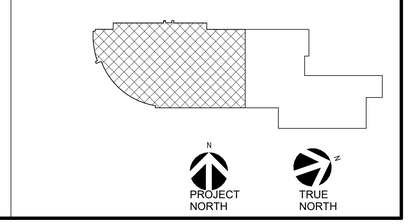
10. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED
11. PRVOIDE ALLOWANCE FOR AN ADDITONAL 12 EXIT SIGNS.
12. INTENT IS FOR COMMON AREA FIXTURES TO BE CONTROLLED VIA TIMECLOCK UNLESS NOTED OTHERWISE.

KEY PLAN



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FIRST FLOOR NEW CONSTRUCTION PLAN AREA A-LIGHTING

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.1a

4/21/2026 10:24:55 PM

2 1ST FLR- NEW CONSTRUCTION PLAN- LIGHTING - AREA B
1/8" = 1'-0"

GENERAL LUMINAIRE NOTES:

1. ALL EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA PANEL "1FLE".
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES AND EXIT SIGNAGE ARE TO BE CIRCUITED VIA EMERGENCY PANEL "LS".
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL.
6. UNLESS OTHERWISE NOTED, ALL OCCUPANCY SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
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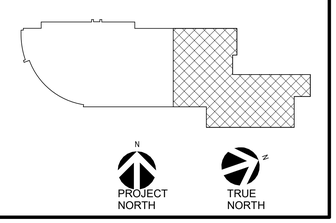
11. PRVOIDE ALLOWANCE FOR AN ADDITONAL 12 EXIT SIGNS.
12. INTENT IS FOR COMMON AREA FIXTURES TO BE CONTROLLED VIA TIMECLOCK UNLESS NOTED OTHERWISE.

ELECTRICAL KEY NOTES

(-) NOTED THUS

KEY PLAN



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FIRST FLOOR NEW CONSTRUCTION PLAN AREA B-LIGHTING

NO.	DESCRIPTION	DATE
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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.1b

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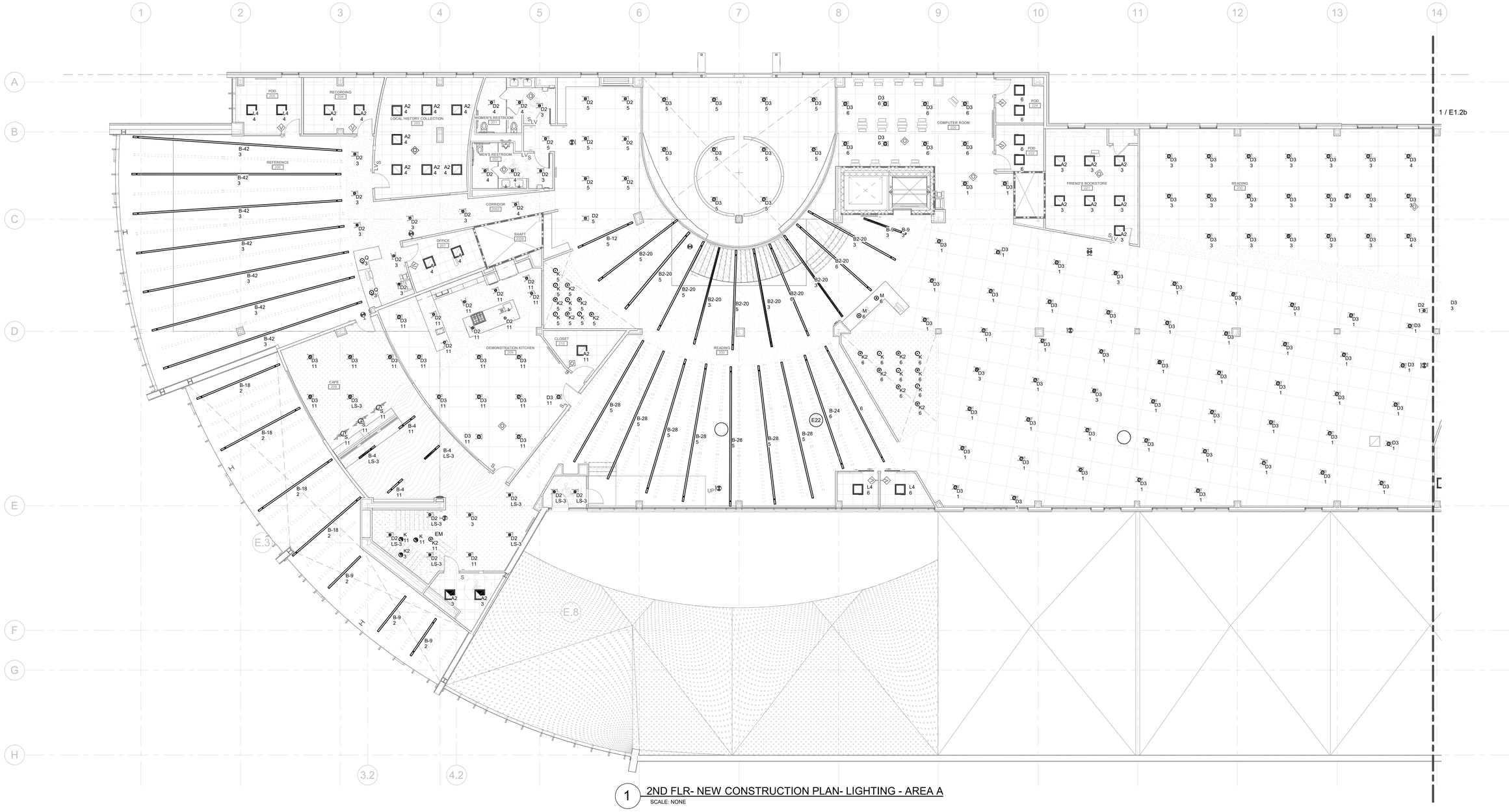

1 2ND FLR- NEW CONSTRUCTION PLAN- LIGHTING - AREA A

SCALE: NONE

ELECTRICAL KEY NOTES (-) NOTED THUS

E22 PROVIDE OPTION FOR TYPE "B" FIXTURES TO BE SUBSTITUTED FOR ALTERNATE LENGTHS FIXTURES SPECIFIED IN LUMINAIRE SCHEDULE. OVERALL RUN LENGTHS WILL NOT CHANGE.

GENERAL LUMINAIRE NOTES:

1. ALL EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA PANEL "2F WEST".
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES AND EXIT SIGNAGE ARE TO BE CIRCUITED VIA EMERGENCY PANEL "LS".
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL.
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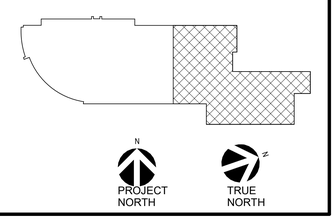
10. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED
11. PRVOIDE ALLOWANCE FOR AN ADDITONAL 12 EXIT SIGNS.
12. INTENT IS FOR COMMON AREA FIXTURES TO BE CONTROLLED VIA TIMECLOCK UNLESS NOTED OTHERWISE.

KEY PLAN



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SECOND FLOOR NEW CONSTRUCTION PLAN AREA A: LIGHTING

NO.	DESCRIPTION	DATE
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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.2a

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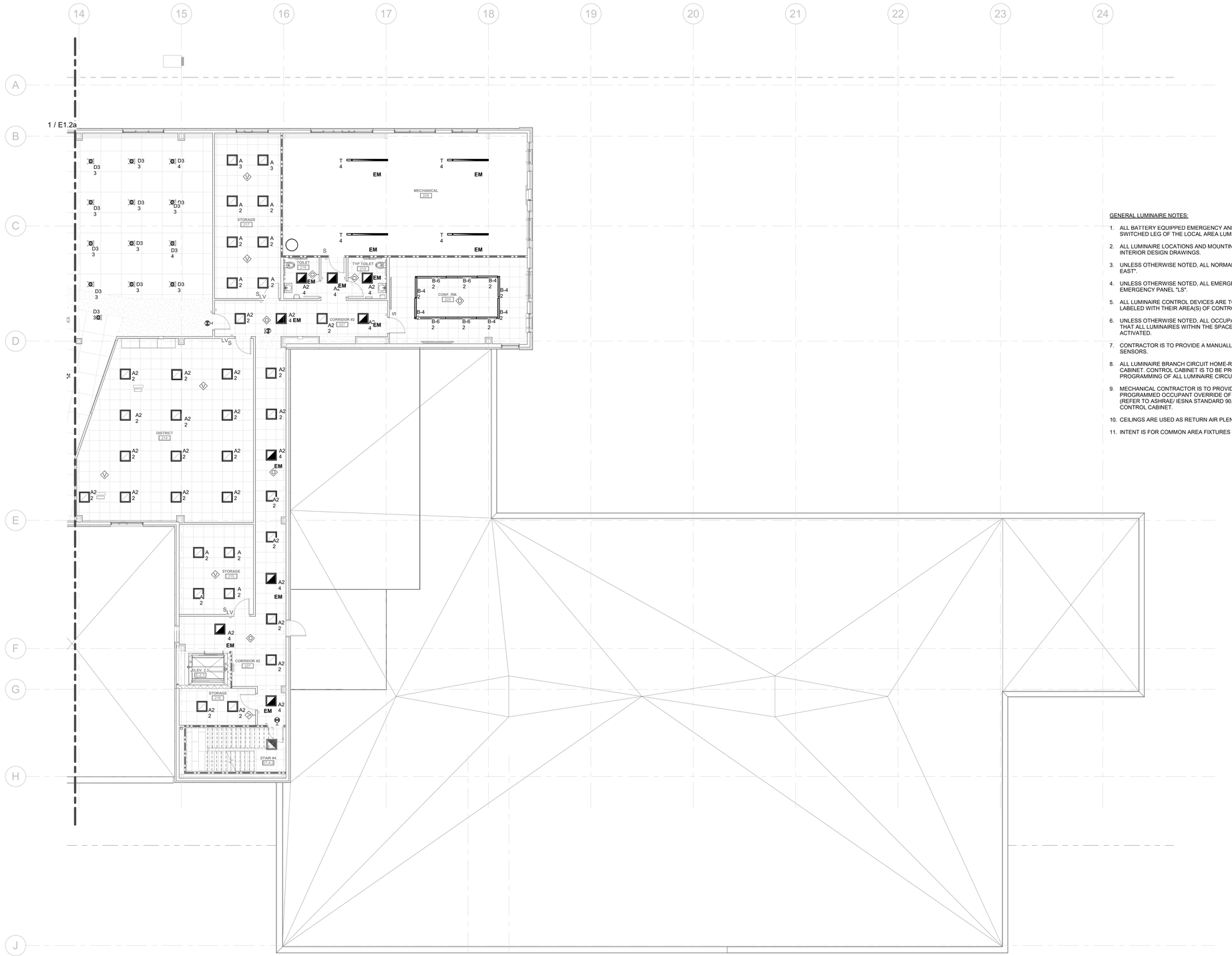

GENERAL LUMINAIRE NOTES:

1. ALL BATTERY EQUIPPED EMERGENCY AND EXIT SIGNAGE LUMINAIRES ARE TO BE CIRCUITED VIA THE UN-SWITCHED LEG OF THE LOCAL AREA LUMINAIRE CIRCUIT.
2. ALL LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL NORMAL POWER LUMINAIRE BRANCH CIRCUIT NUMBERS ARE VIA PANEL "2F EAST".
4. UNLESS OTHERWISE NOTED, ALL EMERGENCY POWER LUMINAIRES AND EXIT SIGNAGE ARE TO BE CIRCUITED VIA EMERGENCY PANEL "LS".
5. ALL LUMINAIRE CONTROL DEVICES ARE TO BE GANGED TOGETHER, HAVE A COMMON FACE PLATE, AND BE LABELED WITH THEIR AREA(S) OF CONTROL.
6. UNLESS OTHERWISE NOTED, ALL OCCUPANCY SENSOR DEVICES IN A SPACE ARE TO BE INTERCONNECTED SO THAT ALL LUMINAIRES WITHIN THE SPACE ARE ENERGIZED WHEN ANY OCCUPANCY SENSOR DEVICE IS ACTIVATED.
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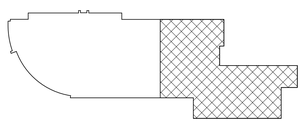
10. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.
11. INTENT IS FOR COMMON AREA FIXTURES TO BE CONTROLLED VIA TIMECLOCK UNLESS NOTED OTHERWISE.

NORTH

2ND FLR- NEW CONSTRUCTION PLAN- LIGHTING - AREA B

1/8" = 1'-0"

KEY PLAN



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SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- LIGHTING

NO.	DESCRIPTION	DATE
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	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.2b

4/21/2026 10:25:12 PM

1 0- GROUND FLOOR- NEW CONSTRUCTION PLAN- POWER - AREA A
1/8" = 1'-0"

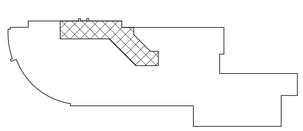
ELECTRICAL KEY NOTES (-) NOTED THUS

E3 POWER INDOOR UNIT FROM OUTDOOR ROOF TOP UNIT. WIRING SHALL FOLLOW THE REFRIGERANT LINES.

GENERAL POWER AND LOW VOLTAGE NOTES:

1. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
2. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA PANEL "1FL".
3. CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
4. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

KEY PLAN



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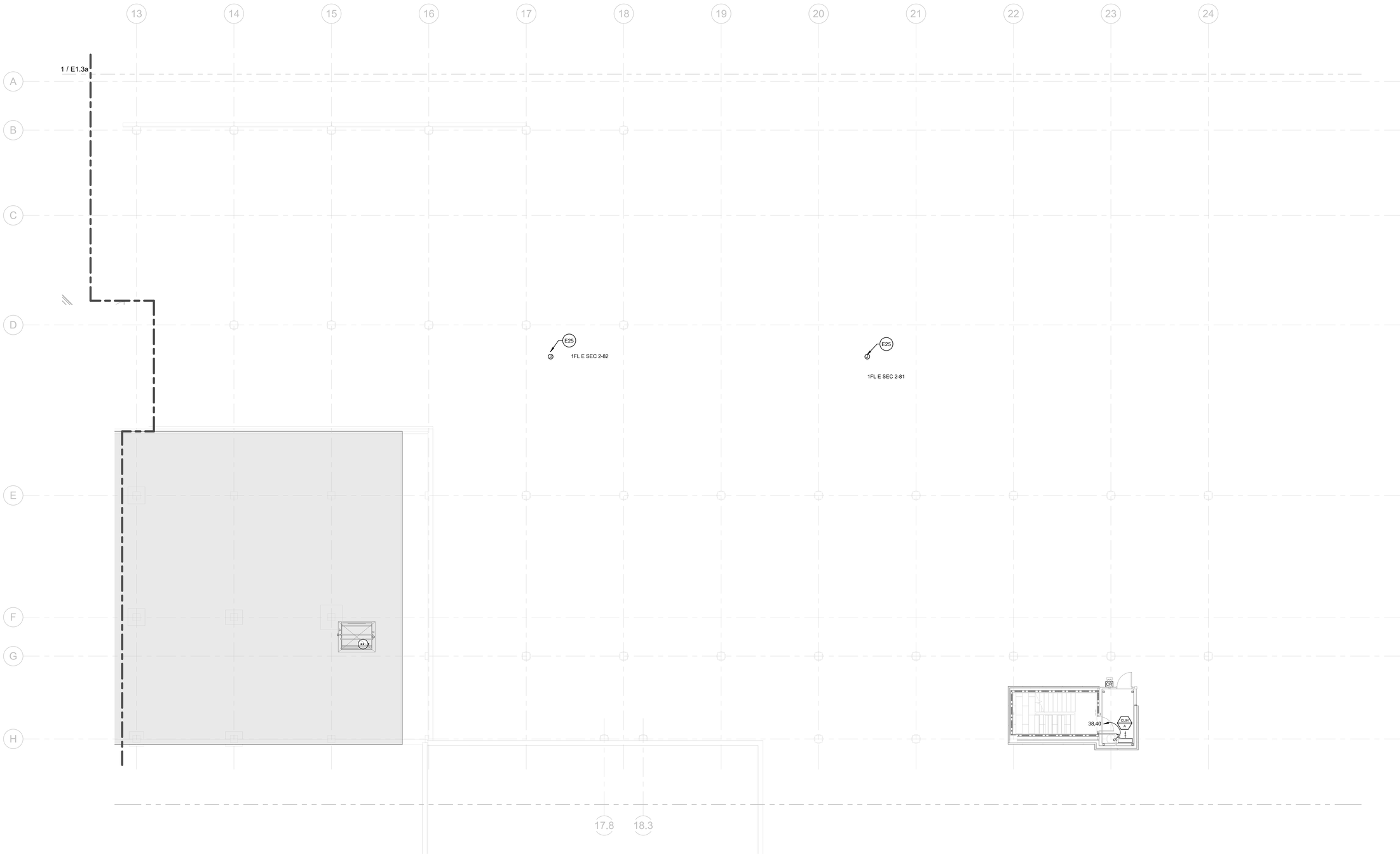
GROUND FLOOR NEW CONSTRUCTION PLAN AREA A: POWER

NO.	DESCRIPTION	DATE
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25
3	CODE UPDATE CHANGES	04/10/26

E1.3a

4/21/2026 10:25:17 PM



1 0- GROUND FLOOR- NEW CONSTRUCTION PLAN- POWER - AREA B

1/8" = 1'-0"

ELECTRICAL KEY NOTES (~) NOTED THUS

E25 CIRCUIT FOR HEAT TRACE FOR PIPES IN CEILING. COORDINATE FINAL LOCATION WITH PLUMBING DRAWINGS

PROVIDE AN ALLOWANCE FOR (6) EV CHANRGERS, CIRCUITED TO PANEL "2FE"

GENERAL POWER AND LOW VOLTAGE NOTES:

1. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
2. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA PANEL 2FE.
3. CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
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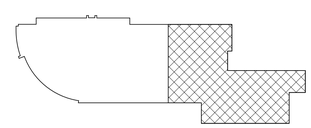

PROJECT NORTH

TRUE NORTH

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GROUND FLOOR NEW CONSTRUCTION PLAN AREA B- POWER

NO.	DESCRIPTION	DATE
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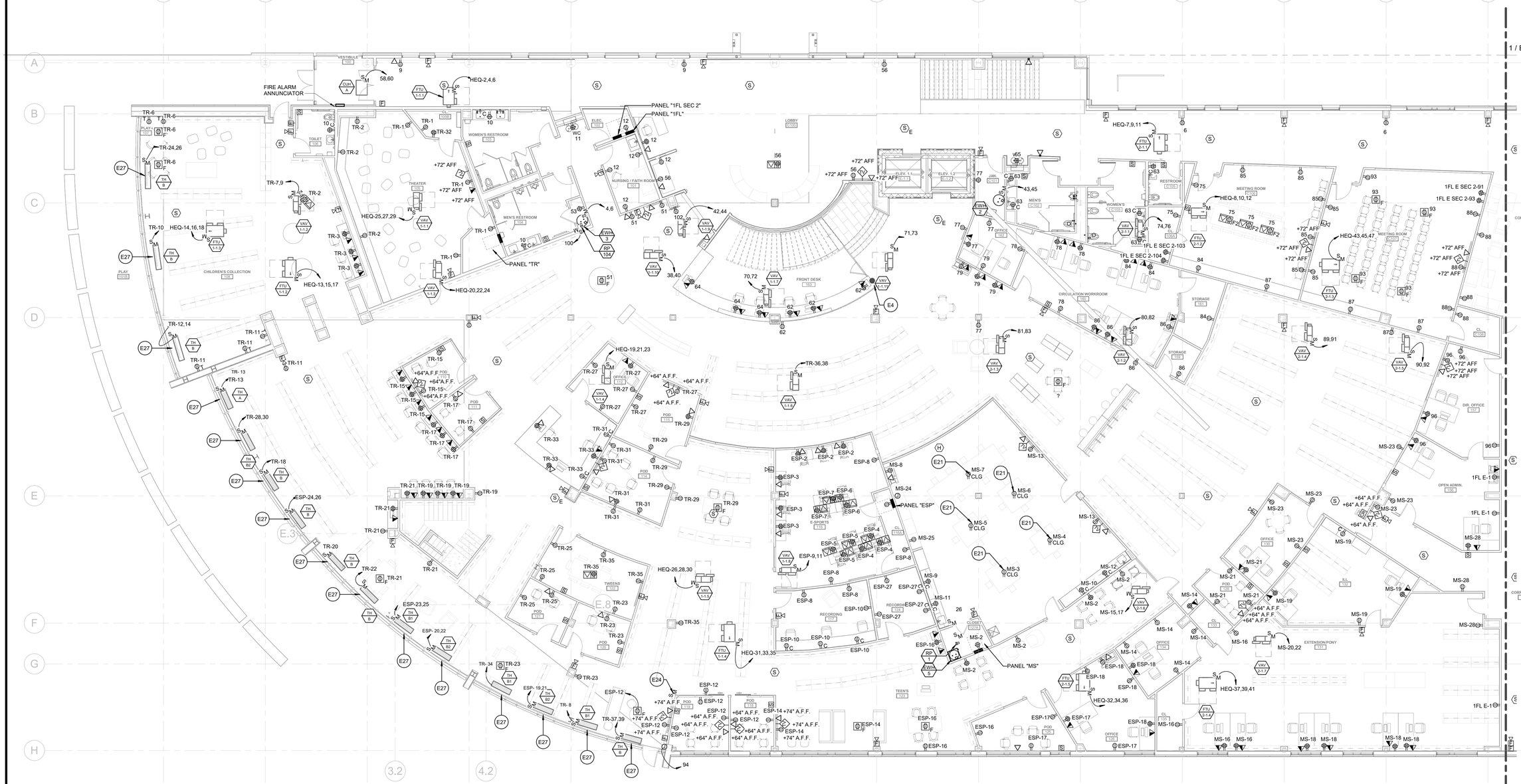
E1.3b

4/21/2026 10:25:20 PM



1 1ST FLR- NEW CONSTRUCTION PLAN- POWER - AREA A

1/8" = 1'-0"

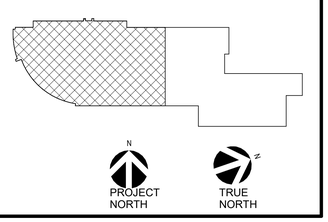
ELECTRICAL KEY NOTES (-) NOTED THUS

- E4 POWER POLE TO FEED FURNITURE MOUNTED RECEPTACLES
- E21 CORD REEL AND PULLEY SYSTEM ON CEILING RECEPTACLE
- E24 5-BUTTON IQ SWITCH FOR SHADES
- E27 TRENCH HEATER CONDUIT TO BE RUN BELOW SLAB

GENERAL POWER AND LOW VOLTAGE NOTES:

1. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
2. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA PANEL "1FL".
3. CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
4. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

KEY PLAN



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FIRST FLOOR NEW CONSTRUCTION PLAN AREA A-POWER

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25
3	CODE UPDATE CHANGES	04/10/26

E1.4a

1 1ST FLR- NEW CONSTRUCTION PLAN- POWER - AREA B
1/8" = 1'-0"

GENERAL POWER AND LOW VOLTAGE NOTES:

1. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
2. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA PANEL "1FLE".
3. CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
4. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

ELECTRICAL KEY NOTES (-) NOTED THUS

E4 POWER POLE TO FEED FURNITURE MOUNTED RECEPTACLES
E13 INDOOR UNIT POWERED FROM THE ROOF TOP HP UNIT
E24 5-BUTTON iQ SWITCH FOR SHADES

KEY PLAN

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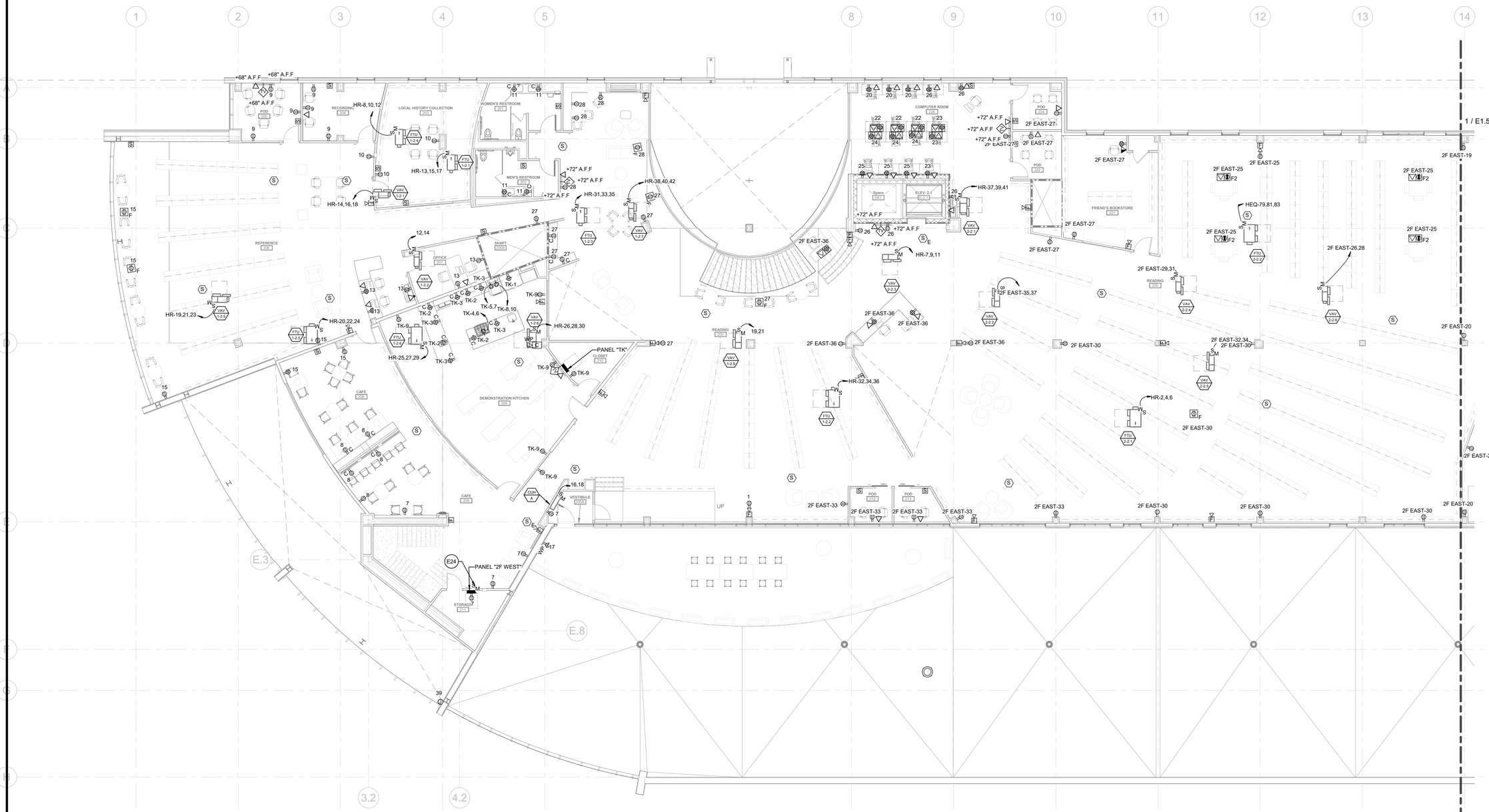
FIRST FLOOR NEW CONSTRUCTION PLAN AREA B- POWER

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.4b

4/21/2026 10:25:35 PM



1 2ND FLR- NEW CONSTRUCTION PLAN- POWER - AREA A

1/8" = 1'-0"

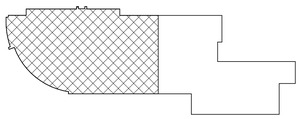
ELECTRICAL KEY NOTES (-) NOTED THUS

E24 5-BUTTON iQ SWITCH FOR SHADES

GENERAL POWER AND LOW VOLTAGE NOTES:

1. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
2. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA PANEL 2FW.
3. CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
4. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

KEY PLAN



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SECOND FLOOR NEW CONSTRUCTION PLAN AREA A- POWER

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.5a

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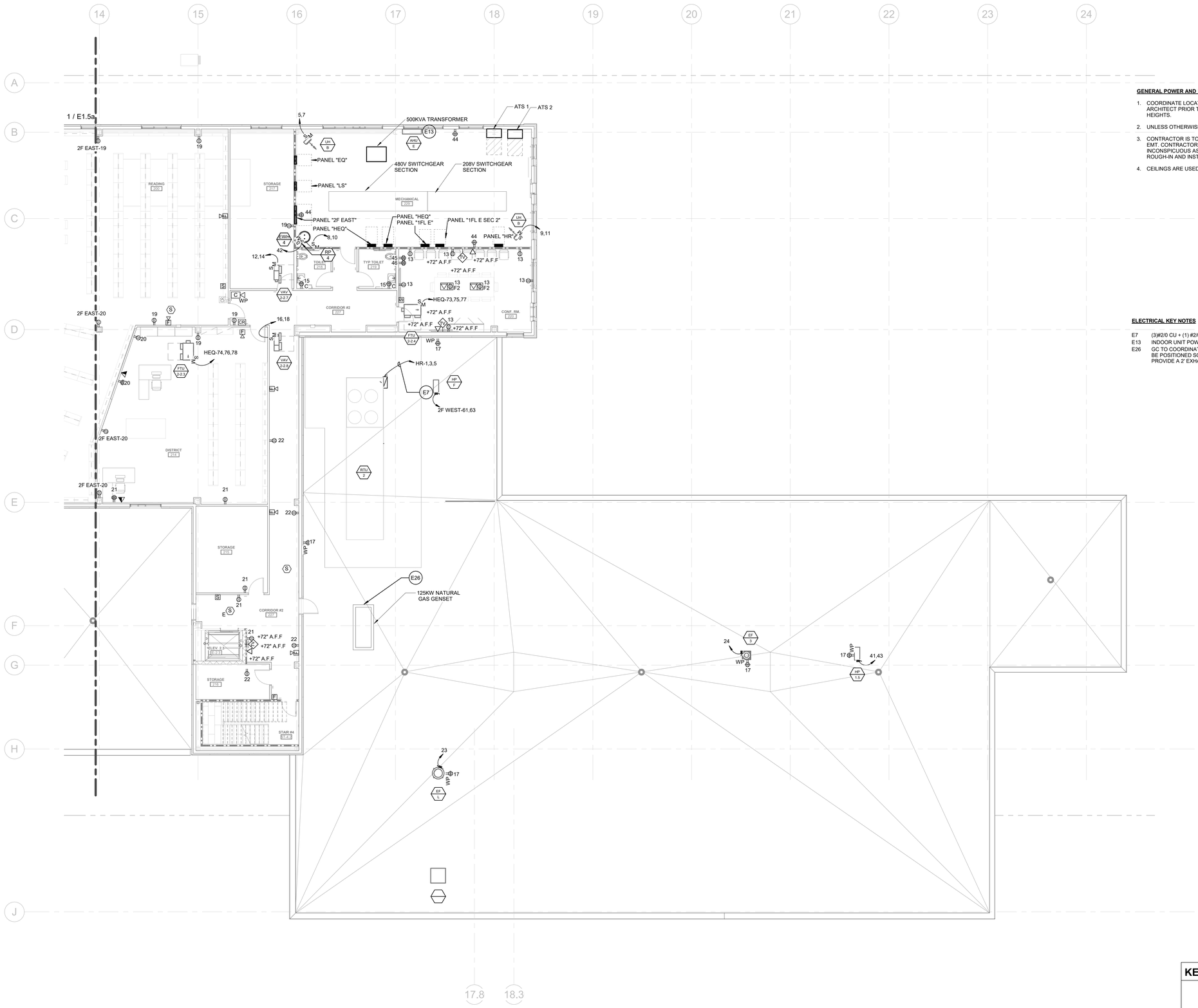


1 2ND FLR- NEW CONSTRUCTION PLAN- POWER - AREA B
1/8" = 1'-0"

GENERAL POWER AND LOW VOLTAGE NOTES:

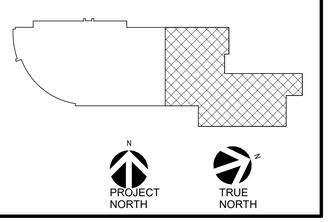
1. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
2. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA PANEL 2FE.
3. CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
4. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

ELECTRICAL KEY NOTES

NOTED THUS

E7 (3)#2/0 CU + (1) #2/0 CU N + (1) #6 CU GND IN (1) 2" C
E13 INDOOR UNIT POWERED FROM THE ROOF TOP HP UNIT
E26 GC TO COORDINATE SCREENING AROUND GENERATOR WITH ARCHITECTURAL PLANS. UNIT IS TO BE POSITIONED SO THAT THE EXHAUST IS POSITIONED AS FAR AS POSSIBLE FROM THE RTU UNIT. PROVIDE A 2' EXHAUST EXTENSION ABOVE THE TOP OF THE GENERATOR ENCLOSURE.

KEY PLAN



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SECOND FLOOR NEW CONSTRUCTION PLAN AREA B- POWER

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.5b

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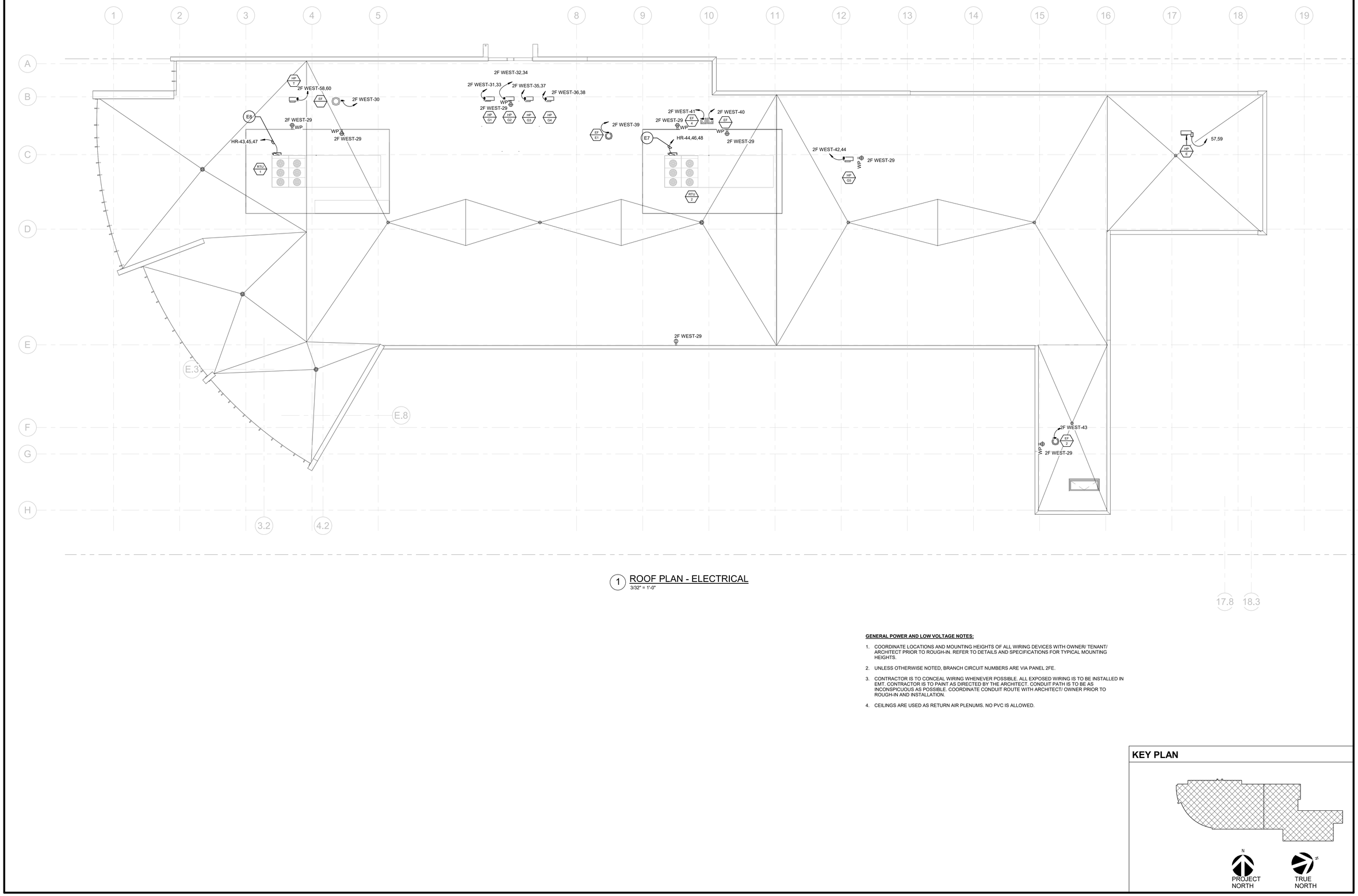

1 ROOF PLAN - ELECTRICAL
3/32" = 1'-0"

GENERAL POWER AND LOW VOLTAGE NOTES:

1. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH OWNER/ TENANT/ ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS FOR TYPICAL MOUNTING HEIGHTS.
2. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT NUMBERS ARE VIA PANEL 2FE.
3. CONTRACTOR IS TO CONCEAL WIRING WHENEVER POSSIBLE. ALL EXPOSED WIRING IS TO BE INSTALLED IN EMT. CONTRACTOR IS TO PAINT AS DIRECTED BY THE ARCHITECT. CONDUIT PATH IS TO BE AS INCONSPICUOUS AS POSSIBLE. COORDINATE CONDUIT ROUTE WITH ARCHITECT/ OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
4. CEILINGS ARE USED AS RETURN AIR PLENUMS. NO PVC IS ALLOWED.

KEY PLAN

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ROOF PLAN NEW CONSTRUCTION PLAN-ELECTRICAL

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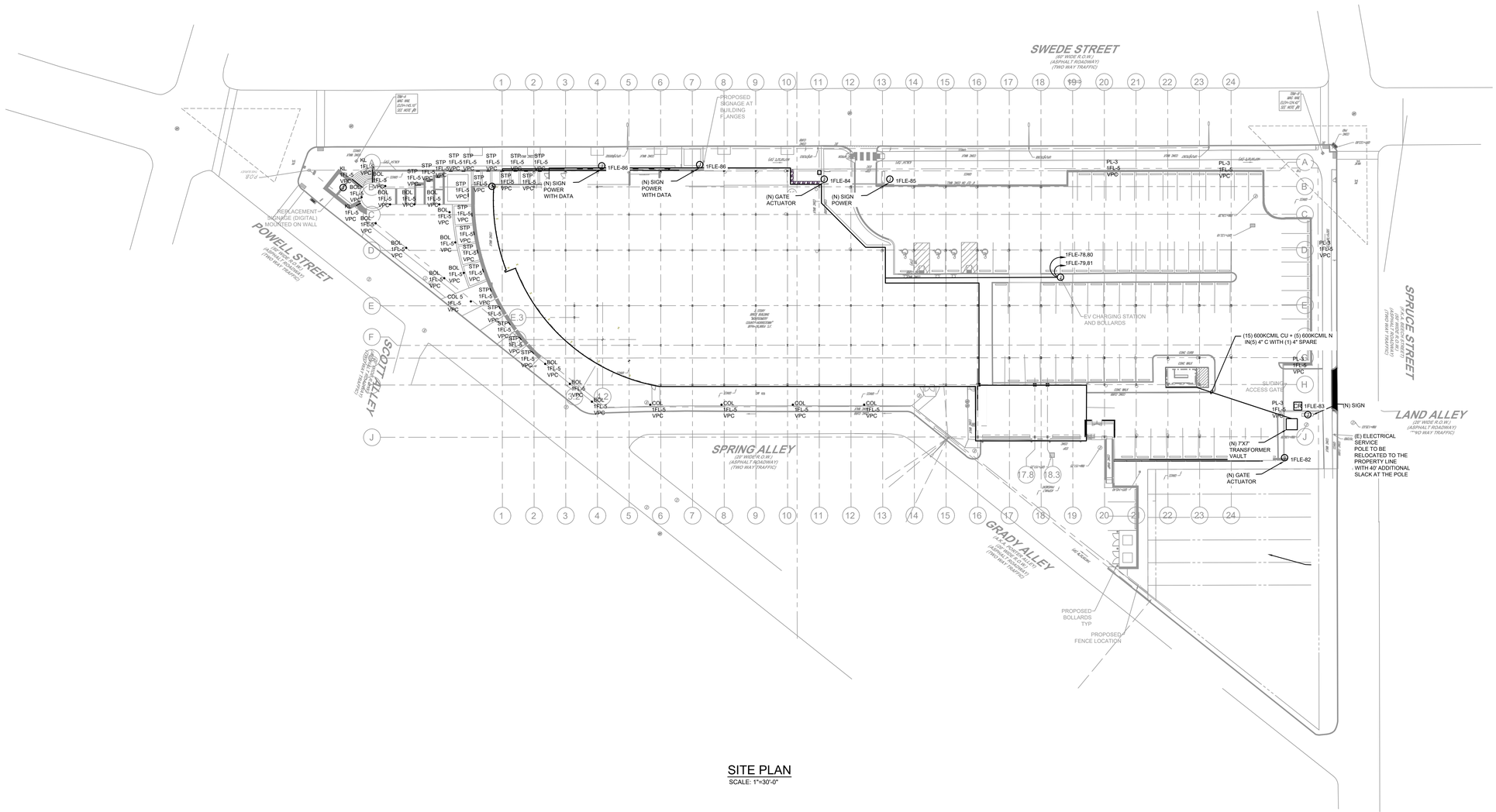

SITE PLAN

SCALE: 1"=30'-0"

SITE LUMINAIRE NOTES:

1. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL SITE LUMINAIRES AS SPECIFIED ON CIVIL ENGINEERING DRAWINGS.
2. COORDINATE ALL FINAL LUMINAIRE LOCATIONS WITH THE CIVIL ENGINEER, AND THE ARCHITECT PRIOR TO ROUGH-IN INSTALLATION.
3. THE ELECTRICAL CONTRACTOR IS TO FURNISH THE SELECTED LUMINAIRES, INSTALL AND PROVIDE BRANCH CIRCUITS TO SERVE THE LUMINAIRES.
4. SITE LUMINAIRES ARE TO BE CIRCUITED WITH A MINIMUM OF #8 AWG INSTALLED IN UNDERGROUND, SCHEDULE 40 PVC CONDUIT.
5. CONDUIT BENEATH PAVED DRIVEWAYS, PARKING AREAS, ETC. IS TO BE GRS CONDUIT.

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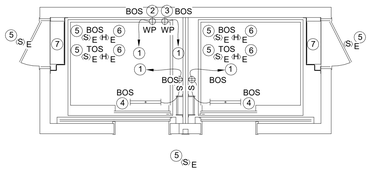
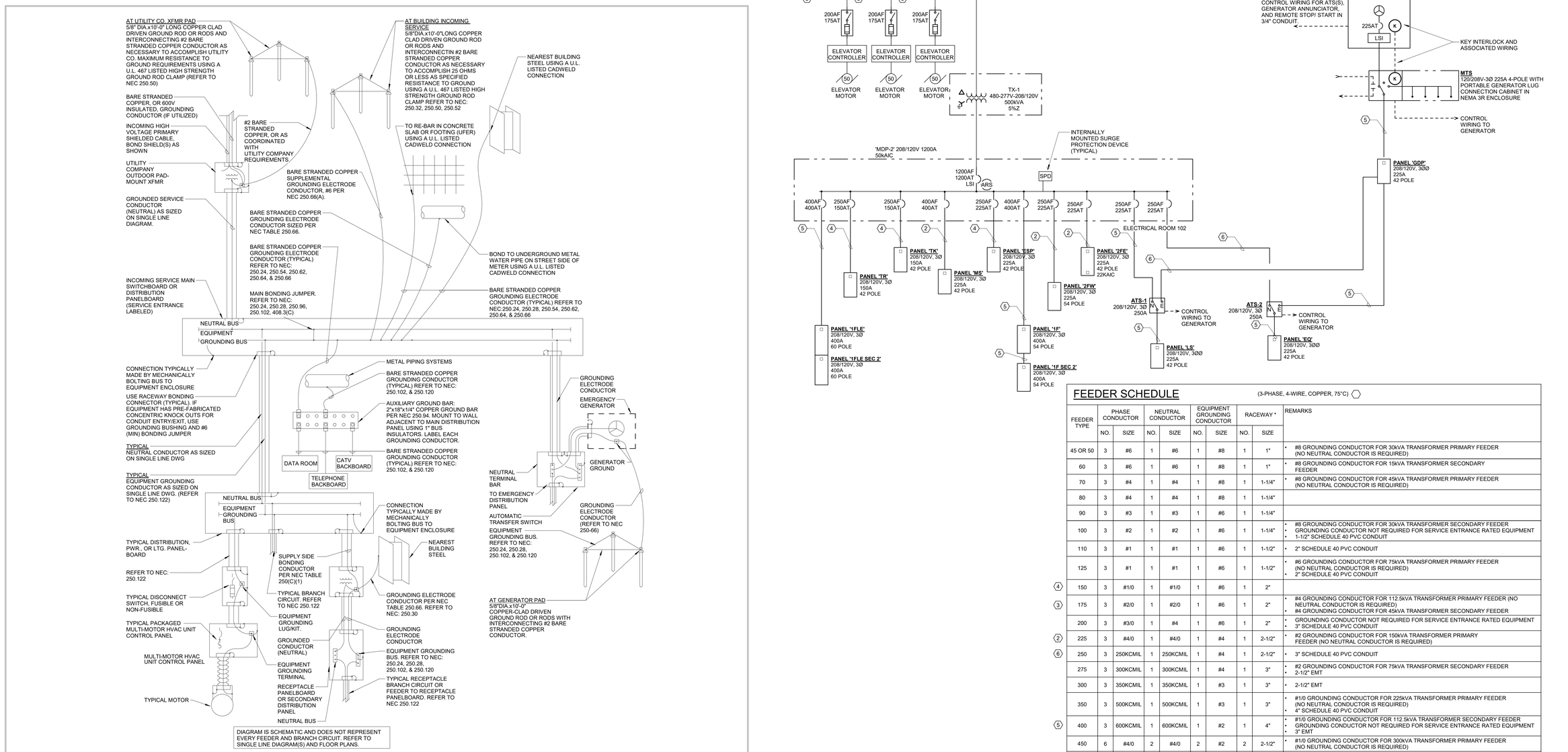
SITE PLAN- ELECTRICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DEMO PACKAGE PH 1	11/04/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E1.7


BOS
WP
BOS
TOS
BOS
BOS
B



2 SYSTEM GROUNDING AND BONDING DIAGRAM

SCALE: NONE

FEEDER SCHEDULE

(3-PHASE, 4-WIRE, COPPER, 75°C) ⬡

	FEEDER TYPE	PHASE CONDUCTOR NO.	PHASE CONDUCTOR SIZE	NEUTRAL CONDUCTOR NO.	NEUTRAL CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR NO.	EQUIPMENT GROUNDING CONDUCTOR SIZE	RACEWAY * NO.	RACEWAY * SIZE	REMARKS
	45 OR 50	3	#6	1	#6	1	#8	1	1"	• #8 GROUNDING CONDUCTOR FOR 30kVA TRANSFORMER PRIMARY FEEDER (NO NEUTRAL CONDUCTOR IS REQUIRED)
	60	3	#6	1	#6	1	#8	1	1"	• #8 GROUNDING CONDUCTOR FOR 15kVA TRANSFORMER SECONDARY FEEDER
	70	3	#4	1	#4	1	#8	1	1-1/4"	• #8 GROUNDING CONDUCTOR FOR 45kVA TRANSFORMER PRIMARY FEEDER (NO NEUTRAL CONDUCTOR IS REQUIRED)
	80	3	#4	1	#4	1	#8	1	1-1/4"	
	90	3	#3	1	#3	1	#6	1	1-1/4"	
	100	3	#2	1	#2	1	#6	1	1-1/4"	• #8 GROUNDING CONDUCTOR FOR 30kVA TRANSFORMER SECONDARY FEEDER • GROUNDING CONDUCTOR NOT REQUIRED FOR SERVICE ENTRANCE RATED EQUIPMENT • 1-1/2" SCHEDULE 40 PVC CONDUIT
	110	3	#1	1	#1	1	#6	1	1-1/2"	• 2" SCHEDULE 40 PVC CONDUIT
	125	3	#1	1	#1	1	#6	1	1-1/2"	• #6 GROUNDING CONDUCTOR FOR 75kVA TRANSFORMER PRIMARY FEEDER (NO NEUTRAL CONDUCTOR IS REQUIRED) • 2" SCHEDULE 40 PVC CONDUIT
4	150	3	#1/0	1	#1/0	1	#6	1	2"	
3	175	3	#2/0	1	#2/0	1	#6	1	2"	• #4 GROUNDING CONDUCTOR FOR 112.5kVA TRANSFORMER PRIMARY FEEDER (NO NEUTRAL CONDUCTOR IS REQUIRED) • #4 GROUNDING CONDUCTOR FOR 45kVA TRANSFORMER SECONDARY FEEDER
	200	3	#3/0	1	#4	1	#6	1	2"	• GROUNDING CONDUCTOR NOT REQUIRED FOR SERVICE ENTRANCE RATED EQUIPMENT • 3" SCHEDULE 40 PVC CONDUIT
2	225	3	#4/0	1	#4/0	1	#4	1	2-1/2"	• #2 GROUNDING CONDUCTOR FOR 150kVA TRANSFORMER PRIMARY FEEDER (NO NEUTRAL CONDUCTOR IS REQUIRED)
6	250	3	250KCMIL	1	250KCMIL	1	#4	1	2-1/2"	• 3" SCHEDULE 40 PVC CONDUIT
	275	3	300KCMIL	1	300KCMIL	1	#4	1	3"	• #2 GROUNDING CONDUCTOR FOR 75kVA TRANSFORMER SECONDARY FEEDER • 2-1/2" EMT
	300	3	350KCMIL	1	350KCMIL	1	#3	1	3"	• 2-1/2" EMT
	350	3	500KCMIL	1	500KCMIL	1	#3	1	3"	• #1/0 GROUNDING CONDUCTOR FOR 225kVA TRANSFORMER PRIMARY FEEDER (NO NEUTRAL CONDUCTOR IS REQUIRED) • 4" SCHEDULE 40 PVC CONDUIT
5	400	3	600KCMIL	1	600KCMIL	1	#2	1	4"	• #1/0 GROUNDING CONDUCTOR FOR 112.5kVA TRANSFORMER SECONDARY FEEDER • GROUNDING CONDUCTOR NOT REQUIRED FOR SERVICE ENTRANCE RATED EQUIPMENT • 3" EMT
	450	6	#4/0	2	#4/0	2	#2	2	2-1/2"	• #1/0 GROUNDING CONDUCTOR FOR 300kVA TRANSFORMER PRIMARY FEEDER (NO NEUTRAL CONDUCTOR IS REQUIRED)
	500	6	250KCMIL	2	250KCMIL	2	#1	2	2-1/2"	
	600	6	350KCMIL	2	350KCMIL	2	#1/0	2	3"	• #1/0 GROUNDING CONDUCTOR FOR 150kVA TRANSFORMER SECONDARY FEEDER • GROUNDING CONDUCTOR NOT REQUIRED FOR SERVICE ENTRANCE RATED EQUIPMENT • 2-1/2" EMT
	700	6	500KCMIL	2	500KCMIL	2	#1/0	2	3"	• 4" SCHEDULE 40 PVC CONDUIT
1	800	6	600KCMIL	2	600KCMIL	2	#2/0	2	4"	• #1/0 GROUNDING CONDUCTOR FOR 225kVA TRANSFORMER SECONDARY FEEDER • GROUNDING CONDUCTOR NOT REQUIRED FOR SERVICE ENTRANCE RATED EQUIPMENT • 3" EMT
	900	9	350KCMIL	3	350KCMIL	3	#2/0	3	3"	
	1000	9	400KCMIL	3	400KCMIL	3	#2/0	3	3"	• GROUNDING CONDUCTOR NOT REQUIRED FOR SERVICE ENTRANCE RATED EQUIPMENT
	1200	12	350KCMIL	4	350KCMIL	4	#3/0	4	3"	• #3/0 GROUNDING CONDUCTOR FOR 300kVA TRANSFORMER SECONDARY FEEDER • GROUNDING CONDUCTOR NOT REQUIRED FOR SERVICE ENTRANCE RATED EQUIPMENT • PROVIDE (2) SPARE 3" CONDUITS
	1600	15	600KCMIL	5	600KCMIL	5	#2/0	5	4"	• PROVIDE (1) 4" SPARE CONDUIT
	2000	18	500KCMIL	6	500KCMIL			6	4"	• FOR SERVICE ENTRANCE ONLY • PROVIDE (2) 4" SPARE CONDUITS

* GRS CONDUIT, SCHEDULE 40 PVC, EMT OR IMC UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPLICATION REQUIREMENTS.

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DETAILS- ELECTRICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E2.2

4/21/2026 10:25:52 PM

PANEL SCHEDULE — HEQ

PANEL LABEL: HEQ — **MAINS:** 225 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPH — **LUGS:** — **MOUNTING:** SURFACE
VOLT 480/277 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1														2
3	20 A	3	Other SPRINKLER ROOM 003	JP-1	1330				6000	FTU 1-1.1	Other CORRIDOR #1 C113	3	20 A	4
5														6
7														8
9	20 A	3	Other CORRIDOR #1 C113	FTU 2-1.1	11000				3500	FTU 2-1.2	Other MEETING ROOM C106	3	20 A	10
11														12
13														14
15	20 A	3	Other CHILDREN'S COLLECTION 108	FTU 1-1.2	3120				3120	FTU 1-1.3	Other CHILDREN'S COLLECTION 108	3	20 A	16
17														18
19														20
21	20 A	3	Other OFFICE 112	VAV 1-1.4	4990				4406	VAV 1-1.3	Other	3	20 A	22
23														24
25														26
27	20 A	3	Other THEATER 105	VAV 1-1.1	4406				4406	VAV 1-1.5	Other	3	20 A	28
29														30
31														32
33	35 A	3	Other	FTU 1-1.4	22197				4500	FTU 2-1.5	Other OFFICE 126	3	20 A	34
35														36
37														38
39	20 A	3	Other EXTENSION/PONY 131	FTU 2-1.4	4500				102663	HEQ SECTION 2	MEA- Panelboard, 277 V/480 V, Three Phase, 4 Wires,...	3	160 A	40
41														42

TOTAL WATTS 180138 VA — TOTAL AMPS 217 A

PANEL SCHEDULE — HEQ

PANEL LABEL: HEQ — **MAINS:** 225 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA HEQ — **LUGS:** — **MOUNTING:** SURFACE
VOLT 480/277 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
43														44
45	20 A	3	Other MEETING ROOM C107	FTU 2-1.3	6000				4988	VAV 3-3	Other MEETING ROOM C110	3	20 A	46
47														48
49											Other CONFERENCE D36			50
51	20 A	3	Other MEETING ROOM C110	FTU 3-1	9000				4500	FTU 3-2		3	20 A	52
53														54
55														56
57	20 A	3	Other CAREER LINK D3	VAV 3-5	5653				8000	FTU 3-3	Other SORTING 138	3	20 A	58
59														60
61														62
63	20 A	3	Other HR 155	VAV 3-8	4822				6900	VAV 3-9	Other DEVELOP. 152	3	20 A	64
65														66
67														68
69	20 A	3	Other BREAKROOM 150	VAV 3-1.0	6900				12500	FTU 3-4	Other TECHNICAL PROCESSING 141	3	20 A	70
71														72
73														74
75	25 A	3	Other CONF. RM. 220	FTU 2-2.4	14400				8000	FTU 2-2.3	Other DISTRICT 214	3	20 A	76
77														78
79														80
81	20 A	3	Other READING 200	FTU2-2.3	11000									82
83														84

TOTAL WATTS 102663 VA — TOTAL AMPS 123 A

PANEL SCHEDULE — ESP

PANEL LABEL: ESP — **MAINS:** 150 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPL — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1	20 A	1	SPARE	--					1080	COMPUTER-1/2/3	RECEPTACLE...	1	20 A	2
3	20 A	1	RECEPTACLE...	COMPUTER-4/5/6	1080				540	COMPUTER-7/8/9	RECEPTACLE...	1	20 A	4
5	20 A	1	RECEPTACLE...	COMPUTER-10/11/12	540				360	COMPUTER-13/14	RECEPTACLE...	1	20 A	6
7	20 A	1	RECEPTACLE...	COMPUTER 14/15	360				1080	E-SPORTS RECPT	RECEPTACLE C...	1	20 A	8
9	20 A	2	Other E-SPORTS 116	VAV1-1.8	2496				720	RECORDING 117	RECEPTACLE...	1	20 A	10
11									1260	POD119	RECEPTACLE	1	20 A	12
13									540	POD 118	RECEPTACLE...	1	20 A	14
15									900	TEENS 123	POWER TEENS...	1	20 A	16
17	20 A	1	RECEPTACLE...	POD 125	900				1260	OFFICE 126	RECEPTACLE...	1	20 A	18
19	20 A	2	Other	TH-B2-1	1000				1000	TH-B2-2	Other	2	20 A	20
21														22
23	20 A	2	Other	TH-B2-3	1000				668	TH-B2-4	Other	2	20 A	24
25														26
27	20 A	1	RECEPTACLE...	RECORDING 124	720				--		SPARE	1	20 A	28
29	20 A	1	SPARE		--				--		SPARE	1	20 A	30
31	20 A	1	SPARE		--				--		SPARE	1	20 A	32
33	20 A	1	SPARE		--				--		SPARE	1	20 A	34
35	20 A	1	SPARE		--				--		SPARE	1	20 A	36
37	20 A	1	SPARE		--				--		SPARE	1	20 A	38
39														40
41														42

TOTAL WATTS 17504 VA — TOTAL AMPS 49 A

PANEL SCHEDULE — TK

PANEL LABEL: TK — **MAINS:** 150 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPL — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1	20 A	1	REFRIGERATOR...	FRIDGE	900				720	KITCHEN COUNTER 1	RECEPTACLE...	1	20 A	2
3	20 A	1	RECEPTACLE...	KITCHEN COUNTER 2	900				8000	ELECTRIC RANGE*	RANGE DEMONSTRATIO...	2	40 A	4
5														6
7	40 A	2	RANGE DEMONSTRATIO...	OVEN 1*	8000				8000	OVEN 2*	RANGE DEMONSTRATIO...	2	40 A	8
9	20 A	1	RECEPTACLE...	GENERAL RECPT	1080									10
11	20 A	1	LIGHTING	KITCHEN LIGHTING	856									12
13														14
15														16
17														18
19														20
21														22
23														24
25														26
27														28
29														30
31	20 A	1	SPARE		--				--		SPARE	1	20 A	32
33	20 A	1	SPARE		--				--		SPARE	1	20 A	34
35	20 A	1	SPARE		--				--		SPARE	1	20 A	36
37	20 A	1	SPARE		--				--		SPARE	1	20 A	38
39	20 A	1	SPARE		--				--		SPARE	1	20 A	40
41														42

TOTAL WATTS 28466 VA — TOTAL AMPS 79 A

***GFCI CIRCUIT BREAKER**

PANEL SCHEDULE — TR

PANEL LABEL: TR — **MAINS:** 150 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPL — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1	20 A	1	RECEPTACLE...	THEATER RECPT	900				720	CHILDRENS AREA	RECEPTACLE...	1	20 A	2
3	20 A	1	RECEPTACLE...	CHILDRENS AREA COMPUTERS	1080				854	CHILDRENS LIGHTING	LIGHTING	1	20 A	4
5	20 A	1	LIGHTING	THEATER LIGHTING	951				720	CHILDRENS AREA RECPT 2	RECEPTACLE...	1	20 A	6
7	20 A	2	Other CHILDREN'S COLLECTION 108	VAV1-1.2	3120				668	TH-B-12	Other	1	20 A	8
9									668	TH-B-2	Other CHILDREN'...	1	20 A	10
11	20 A	1	RECEPTACLE...	CHILDRENS COLLECTION RECPT	720				668	TH-C-3	Other CHILDREN'S COLLECTION 108	2	20 A	12
13	20 A	1	Other	TH-A-1	500									14
15	20 A	1	RECEPTACLE...	POD 110	1440				890	TH-B-5	LIGHTING...	1	20 A	16
17	20 A	1	RECEPTACLE...	POD 111	1440				668	TH-B-6	Other	1	20 A	18
19	20 A	1	RECEPTACLE...	REFERENCE COMPUTERS-1	1260				668	TH-B-7	Other	1	20 A	20
21	20 A	1	RECEPTACLE...	REFERENCE COMPUTERS 2	1260				668	TH-B-8	Other	1	20 A	22
23	20 A	1	RECEPTACLE...	POD 120	900				668	TH-9	Other PLAY 107	2	20 A	24
25	20 A	1	RECEPTACLE...	POD 121	720									26
27	20 A	1	RECEPTACLE...	OFFICE 112	1260				668	TH-B-10	Other	2	20 A	28
29	20 A	1	RECEPTACLE...	POD 115	1260									30
31	20 A	1	RECEPTACLE...	POD 114	1260				360	THEATER IT RACK	RECEPTACLE C...	1	20 A	32
33	20 A	1	RECEPTACLE...	CHILDRENS STAFF DESK	1260				668	TH-B-14	Other	1	20 A	34
35	20 A	1	POWER TWEEN...	TWEENS 122	720				3744	VAV1-1.6	Other	2	20 A	36
37	20 A	2	Other	TH-B2-11	1000									38
39														40
41	20 A	1	SPARE		--									42

TOTAL WATTS 34351 VA — TOTAL AMPS 95 A

PANEL SCHEDULE — 1FL E

PANEL LABEL: 1FL E — **MAINS:** 400 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPL — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1	20 A	1	RECEPTACLE...	STORAGE 137	1440				1796	TECHNICAL PROCESSING 142	LIGHTING	1	20 A	2
3	20 A	1	LIGHTING	AREA B	1856				1812	DOCK 139 SORTING 138	LIGHTING	1	20 A	4
5	20 A	1	LIGHTING	AREA B	1248				435	MEETING ROOM C110 LIGHTING	LIGHTING	1	20 A	6
7	20 A	1	RECEPTACLE...	REDEMPTION D32	1080									8
9	20 A	1	RECEPTACLE...	INTERVIEW D35	1260				3120	VAV3-1	Other WAITING D31	2	20 A	10
11	20 A	1	RECEPTACLE...	INTERVIEW D27	1260									12
13	20 A	1	RECEPTACLE...	COMPUTER LAB D38-1	1260				1414	VAV3-2	Other MEETING ROOM C109	2	20 A	14
15	20 A	1	RECEPTACLE...	COMPUTER LAB D38-2	1080									16
17	20 A	1	RECEPTACLE	COMPUTER LAB D38-3	1080				1414	VAV3-4	Other COMPUTER LAB D38	2	20 A	18
19	20 A	1	LIGHTING...	MEETING ROOM C109	412				1080	MEETINGROOM C110-3	RECEPTACLE...	1	20 A	20
21	20 A	1	RECEPTACLE...	MEETING ROOM C110-1	900				900	MEETING ROOM C110-4	RECEPTACLE...	1	20 A	22
23	20 A	1	RECEPTACLE...	COMPUTER LAB 223-1	900				1872	VAV3-11	Other STORAGE D37	2	20 A	24
25	20 A	1	RECEPTACLE...	COMPUTER LAB 223-2	1080									26
27	20 A	1	Other MEETING...	MEETING ROOM C110 BB-4F-1	1000				1260	STORAGE D37	RECEPTACLE...	1	20 A	28
29				MEETING ROOM C110 BB-4F-2					900	CONFERENCE D36-1	RECEPTACLE...	1	20 A	30
31	20 A	1	Other MEETING...	MEETING ROOM C110 BB-4F-3	9000				900	CONFERENCE D36-2	RECEPTACLE...	1	20 A	32
33	20 A	1	RECEPTACLE...	CAREER LINK D3-1	1260				5400	VAV3-7	Other CAREER LINK D3	2	20 A	34
35	20 A	1	RECEPTACLE...	CAREER LINK D3-2	720									36
37	20 A	1	RECEPTACLE...	CAREER LINK D3-3	1260				900	OFFICE D34	RECEPTACLE...	1	20 A	38
39	20 A	1	RECEPTACLE...	CAREER LINK D3-4	1260				6480	VAV3-6	Other CORRIDOR #5 158	2	20 A	40
41	20 A	1	RECEPTACLE...	CAREER LINK D3-5	1260									42
43	20 A	1	RECEPTACLE...	SORTING 138-1	720				2038	CUH-1	Other	2	15 A	44
45	20 A	1	RECEPTACLE...	SORTING 138-2	1080									46
47	20 A	1	RECEPTACLE...	SORTING 138-3	900				3000	LOADING DOCK UH-A1-1	Other LOADING DOCK 139	2	15 A	48
49	20 A	1	RECEPTACLE...	LOADING DOCK	900									50
51	15 A	2	Other CORRIDOR #2 140	CORRIDOR 2 CUH-B	2000				3000	LOADING DOCK UH-A1-2	Other LOADING DOCK 139	2	15 A	52
53														54
55	20 A	1	RECEPTACLE H...	HR 155	1260									56
57	20 A	1	RECEPTACLE...	COPY MACHINE	180				32424	SECOND SECTION	1FL E SEC 2	3	20 A	58
59	20 A	1	RECEPTACLE...	ACCT 154	1080									60

TOTAL WATTS 108881 VA — TOTAL AMPS 302 A

PANEL SCHEDULE — 1FL E SEC 2

PANEL LABEL: 1FL E SEC 2 — **MAINS:** 400 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA 1FL E — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
61	20 A	1	RECEPTACLE...	CONFERENCE 153	1260				1260	DEVELOP. 152	RECEPTACLE...	1	20 A	62
63	20 A	1	REFRIGERATOR...	BREAKROOM FRIDGE 1	900				1080	BREAKROOM 150	RECEPTACLE...	1	20 A	64
65	20 A	1	REFRIGERATOR...	TGBREAKROOM FRIDGE 2	900				360	BREAKROOM COUNTER 1	RECEPTACLE...	1	20 A	66
67	20 A	1	RECEPTACLE...	IT 148	1260				180	BREAKROOM COUNTER 2	RECEPTACLE...	1	20 A	68
69	20 A	1	RECEPTACLE I...	IT EQUIP 1	360				900	TOILET 147	RECEPTACLE...	1	20 A	70
71	20 A	1	RECEPTACLE I...	IT EQUIP 2	360				900	TECHNICAL PROCESSING 141-1	RECEPTACLE...	1	20 A	72
73	20 A	1	RECEPTACLE...	TECHNICAL PROCESSING 141-3	1260				1440	TECHNICAL PROCESSING 141-2	RECEPTACLE...	1	20 A	74
75	20 A	1	RECEPTACLE...	TECHNICAL PROCESSING 141-4	1080				1080	TECHNICAL PROCESSING 141-5	RECEPTACLE...	1	20 A	76
77	20 A	1	RECEPTACLE...	MEETING ROOM C109	1440									78
79	20 A	1	EQUIPMENT	BREAKROOM ELEC SHADE	1000				4500	EWH7	Other	2	20 A	80
81	20 A	1	EQUIPMENT	HEAT TRACE 1	1200				1200	HEAT TRACE 2	EQUIPMENT	1	20 A	82
83	20 A	2	Other TECHNICAL PROCESSING 141	EWH-1	4500				44	RP-3	Other TOILET 144	1	20 A	84
85									360	D36-RACK1	RECEPTACLE...	1	20 A	86
87	20 A	1	RECEPTACLE...	D36-RACK2	360				360	C110 RACK 1	RECEPTACLE...	1	20 A	88
89	20 A	1	RECEPTACLE...	C110 RACK 2	360				360	C109 RACK 1	RECEPTACLE...	1	20 A	90
91	20 A	1	RECEPTACLE...	C107 RACK 1	360				360	C109 RACK 2	RECEPTACLE...	1	20 A	92
93	20 A	1	RECEPTACLE...	C107 RACK 2	360				360	C109 RACK 3	RECEPTACLE...	1	20 A	94
95	20 A	1	SPARE		--				--		SPARE	1	20 A	96
97	20 A	1	SPARE		--				--		SPARE	1	20 A	98
99	20 A	1	SPARE		--				--		SPARE	1	20 A	100
101	20 A	1	SPARE		--				--		SPARE	1	20 A	102
103	20 A	1	RECEPTACLE C...	C106 RACK 1	360				360	C106 RACK 2	RECEPTACLE C...	1	20 A	104
105														106
107														108
109														110
111														112
113														114
115														116
117														118
119														120

TOTAL WATTS 32424 VA — TOTAL AMPS 90 A

PANEL SCHEDULE — 1FL

PANEL LABEL: 1FL — **MAINS:** 400 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPL — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1	20 A	1	LIGHTING	CAREER LINK OFFICE LIGHTING	796				684	GF OFFICE LIGHTING	LIGHTING	1	20 A	2
3	20 A	1	LIGHTING	LOBBY 002	1000				1716	ENTRANCE LIGHTING	LIGHTING	1	20 A	4
5	--	1	SPACE	EXTERIOR LIGHTING	--				360	TWEEN LIGHTING	RECEPTACLE...	1	20 A	6
7	20 A	1	RECEPTACLE...	AUDIOVISUAL LIGHTING	1000				400	LOWER LEVEL MODS	EQUIPMENT	1	20 A	8
9	20 A	1	RECEPTACLE...	ENTRANCE RECPT	360				540	RESTROOM RECPT	RECEPTACLE...	1	20 A	10
11	20 A	1	RECEPTACLE...	WATER COOLER 1	180				1080	ENTRANCE DESK 1	RECEPTACLE...	1	20 A	12
13	20 A	1	SPARE	PARKING LIGHTING	--				1080	OFFICE D25	RECEPTACLE	1	20 A	14
15	20 A	1	RECEPTACLE	OFFICE D23	900				1440	OFFICE D21	RECEPTACLE	1	20 A	16
17	20 A	1	RECEPTACLE	CONFERENCE ROOM D26-1	720				180	MICROWAVE	RECEPTACLE	1	20 A	18
19	20 A	1	RECEPTACLE...	CONFERENCE ROOM D26-2	720				1000	BB-4F D26	Other...	1	15 A	20
21	15 A	1	Other TOILET D18	ERV-1	732				360	LOWER LEVEL RRTG	RECEPTACLE	1	20 A	22
23	20 A	1	RECEPTACLE...	EXTERIOR RECPT LL	360				1080	CONFERENCE D11	RECEPTACLE...	1	20 A	24
25	20 A	1	RECEPTACLE...	OFFICE D12	900				900	OFFICE D13	RECEPTACLE	1	20 A	26
27	20 A	1	RECEPTACLE	OFFICE D14	1080				1080	CAREER LINK D1-1	RECEPTACLE	1	20 A	28
29	20 A	1	RECEPTACLE...	CAREER LINK BREAK ROOM	1260				900	CAREER LINK FRIDGE*	REFRIGERATOR	1	20 A	30
31	20 A	1	RECEPTACLE...	CAREER LINK D1-2	1080				1260	CAREER LINK D1-3	RECEPTACLE...	1	20 A	32
33	20 A	1	RECEPTACLE...	CAREER LINK COUNTER	540				720	LOBBY RECPT	RECEPTACLE...	1	20 A	34
35	20 A	1	RECEPTACLE...	CAREER LINK COUNTER 2	360				1500	BB-1OF VESTIBULE LL	Other VESTIBUL...	1	20 A	36
37	15 A	1	Other CAREER LINK D1	ERV-2	1290				2496	VAV1-1.10	Other	2	20 A	38
39														40
41	20 A	1	LIGHTING	LOBBY C100	828				3744	VAV1-1.9	Other	2	20 A	42
43														44
45	40 A	2	Other JAN. C101	EWH-2	4500				4500	EWH-10	Other CAREER LINK D1	2	40 A	46
47	40 A	2	Other TOILET D16	EWH-11*	4500									48
49														50
51	20 A	1	RECEPTACLE	HALL 164 RECPT	540				66966	SECTION 2	1FL SEC 2	3	20 A	52
53	20 A	1	RECEPTACLE	EWH SERVICE RECPT	180									54

TOTAL WATTS 117812 VA — TOTAL AMPS 327 A

*** GFCI CIRCUIT BREAKER**

PANEL SCHEDULE — 1FL SEC 2

PANEL LABEL: 1FL SEC 2 — **MAINS:** 400 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA 1FL — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 — **Ø** 4 — **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
55	15 A	2	Other SPRINKLER ROOM 003	UH-A	3000				720	LOBBY RECPT	RECEPTACLE...	1	20 A	56
57									3000	CUH-A VESTIBULE 100	Other	2	15 A	58
59	20 A	1	LIGHTING	LINEAR	1002									60
61	20 A	1	LIGHTING	TWEENS	1616				1260	FRONT DESK RECPT 1	RECEPTACLE	1	20 A	62
63	20 A	1	RECEPTACLE...	RESTROOM C103	900				1080	FRONT DESK RECPT 2	RECEPTACLE	1	20 A	64
65	20 A	1	RECEPTACLE...	WATER COOLER	180				176	MAIN ENTRANCE LIGHTING	LIGHTING	1	20 A	66
67	40 A	2	Other BREAK AREA D2.1	EWH-9*	4500				1636	AUDIO VISUAL	LIGHTING	1	20 A	68
69									1872	VAV1-1.7	Other	2	20 A	70
71	20 A	2	Other	VAV1-1.11	3744									72
73									3744	VAV2-1.1	Other CL. 106A	2	20 A	74
75	20 A	1	RECEPTACLE C...	MEETING ROOM C106-1	900									76
77	20 A	1	RECEPTACLE...	OFFICE 162	1080				1080	CIRCUTLATION 160-1	RECEPTACLE...	1	20 A	78
79	20 A	1	RECEPTACLE	OFFICE 162-2	1080				3744	VAV2-1.2	Other CIRCULATION...	2	20 A	80
81	20 A	2	Other	VAV2-1.3	3744									82
83									1080	CIRCULATION 160-2	RECEPTACLE...	1	20 A	84
85	20 A	1	RECEPTACLE...	MEETING ROOM C106-2	1260				1260	CIRCULATION 160-3	RECEPTACLE	1	20 A	86
87	20 A	1	RECEPTACLE...	MEETING ROOM C107	720				1080	MEETING ROOM C107-2	RECEPTACLE C...	1	20 A	88
89	20 A	2	Other	VAV2-1.4	3120				3744	VAV2-1.5	Other	2	20 A	90
91														92
93	20 A	1	RECEPTACLE...	C107-3	900				500	MOTORIZED SHADE 1	EQUIPMENT	1	20 A	94
95	20 A	1	Other	EXTENSION/PONY	1392				1260	DIR OFFICE 157	RECEPTACLE...	1	20 A	96
97	20 A	1	LIGHTING	ADMIN 156	1312				--	SITE LIGHTING	SPARE	1	20 A	98
99	20 A	1	SPARE	FLAGPOLE LIGHTING	--				40	RP-104	Other	1	20 A	100
101	40 A	2	Other	EWH-8*	4500				180	GATEWAY RECPT	RECEPTACLE	1	20 A	102
103									1500	BB-10F STAIRS-1	Other LOBBY 002	1	20 A	104
105	20 A	1	Other LOBBY 002	BB-10F STAIRS-2	1500				1560	SPRINKLER COMPRESSOR	Other SPRINKLER ROOM 003	2

LUMINAIRE SCHEDULE

LISTED, APPROVED EQUALS: IT IS NOT UNDERSTOOD THAT THIS IMPLIES THAT A STANDARD LUMINAIRE IS ACCEPTABLE. THE LUMINAIRE MUST MEET ALL TECHNICAL REQUIREMENTS AS WELL AS BEING NAMED. ALTERNATE MANUFACTURERS ARE NOT ACCEPTABLE UNLESS APPROVED BY OWNER PRIOR TO THE G.M.P. ISSUE. REFER TO SPECIFICATION SECTION 26 50 00 FOR ADDITIONAL INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING MOUNTING TYPE (SURFACE, RECESSED, LAY-IN, FLANGED, WALL, PENDANT, ETC). UNLESS OTHERWISE NOTED, ALL CCT AND CRI RATINGS ARE TO BE CONSISTENT THOUGH OUT THE LUMINAIRE PACKAGE. ALL DRIVERS ARE TO BE ELECTRONIC WITH 0-10V DIMMING CAPABILITY. ALL LENSES ARE TO BE SHIPPED WITHIN A PROTECTIVE COVERING. EMERGENCY FIXTURES ARE INDICATED AS PARTIALLY SHADED AND/ OR WITH AN "E" SUFFIX, FOR EXAMPLE, "A4E".

TAG	DESCRIPTION MANUFACTURER: MODEL NUMBER	LAMP WATTAGE	CCT/ CRI	VOLTAGE	EQUIVALENT MANUFACTURERS
A	2'X2' TROFFER LITHONIA 2BLT233LADPLP835	27 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
A2	2'X2' TROFFER LIHTONIA 2BLT2 40L ADP LP835	31 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
A4	2'X4' TROFFER 2BLT4 40L ADP LP835	31 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
B-4	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-03-L35-4	12 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B-6	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-03-L35-6	18 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B-12	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-03-L35-12	36 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B-22	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-03-L35-22	66 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B-26	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-03-L35-26	78 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B-28	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-03-L35-28	85 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B-42	SUSPENDED 2IN APERTURE LINEAR RP24-D-STF-03-L35-42	126 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B-46	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-03-L35-46	221 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B2-4	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-06-L35-4	24 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B2-6	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-06-L35-6	36 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B2-18	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-06-L35-18	108 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B2-24	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-06-L35-24	144 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
B2-36	SUSPENDED 2IN APERTURE LINEAR NULITE RP24-D-STF-06-L35-36	216 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
C 6	LOW-PROFILE LINEAR LIGHTING VODE 707-Z2-XX-Z-SO-359-S4	42 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
C 24	LOW-PROFILE LINEAR LIGHTING VODE 707-Z2-XX-Z-SO-359-S4	168 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
CRCT	LOW-PROFILE LINEAR LIGHTING VODE 707-Z2-XX-Z-SO-359-S4 (SHAPE)	140 W	CCT/ CRI	120 V	EQUIVALENT MANUFACTURERS
D1	4IN ROUND DOWN LIGHT GOTHAM IVO4S D 10LM 35K 80CRI MWD P AR LD	10.5 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
D2	4IN ROUND DOWN LIGHT GOTHAM IVO4S D 15LM 35K 80CRI MD P AR LD	15.7 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
D3	4IN ROUND DOWN LIGHT GOTHAM IVO4S D 30LM 35K 80CRI MD P AR LD	30.7 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
F 28	WALL MOUNT ADJUSTABLE ART LIGHT NULITE RWZERO-D-FF-08-L35-SEC-UNV-D-11-WH-WAW06-	168 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
G	LINEAR INDUSTRIAL STRIP LITHONIA CLX L48 4000LM SEF FDL MVOLT 35K 80CRI	26 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
G2	LINEAR INDUSTRIAL STRIP LITHONIA CLX L48 7000LM SEF FDL MVOLT 35K 80CRI	47 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
H	CUSTOM CONNECTED CONFIGURATION LIGHTART LA2 CON CONF 4H XX 830CK STD STM WP WH	22 W/SEC	3000K/80CRI	120 V	EQUIVALENT MANUFACTURERS
I1	CUSTOM WING - BOOK DESIGN LIGHTART ACC-WING-48L-650LM	29 W/FT	3500K/80	120 V	EQUIVALENT MANUFACTURERS
I2	CUSTOM WING - BOOK DESIGN LIGHTART ACC-WING-48L-650LM	29 W/FT	3500K/80	120 V	EQUIVALENT MANUFACTURERS
K	ACCOUSTIC MOBILE LIGHTART CUSTOM	W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
K2	ACOUSTIC MOBILE CYLINDER LIGHTART CASPER	W	3500K/80	120 V	EQUIVALENT MANUFACTURERS

LUMINAIRE SCHEDULE

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L1	ACOUSTIC ANGLED 2X2 A-LIGHT LEANLH35UAWFD	40 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
L2	ACOUSTIC ANGLED 2X2 A-LIGHT LEANLH35UAWFD	40 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
L3	ACOUSTIC ANGLED 2X2 A-LIGHT LEANLH35UAWFD	40 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
L4	ACOUSTIC ANGLED 2X2 A-LIGHT LEANLH35UAWFD	40 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
M	SURFACE MOUNT DECORATIVE WAC PD-20004	22.5 W	3000K/90	120 V	EQUIVALENT MANUFACTURERS
N	LARGE ACOUSTIC RING LIGHTART ACC SHPE RING 16D MOD	W	3000K/90	120 V	EQUIVALENT MANUFACTURERS
P	PARKING GARAGE FIXTURE LITHONIA VCPG LED P3 40K T5M MVOLT	44 W	4000K/80	120 V	EQUIVALENT MANUFACTURERS
O	STAIRWELL LIGHTING LITHONIA WL4-30L-MVOLT-EZ1-LP835-EL7L-MSD7	32 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
Q	CIRCULATION DESK PENDANT ALW LIGHTING CRP3 — 20903525 — DV00 — TBBK — AC	16 W	3500K/80	120 V	EQUIVALENT MANUFACTURERS
R	EXTERIOR WALL FLEX TUBE FTXIF-22IF-XWIN	5.5W/F	3500K/80	120 V	EQUIVALENT MANUFACTURERS
S	DECORATIVE PENDANT WAC LIGHTING 35446	30W	3000K/80	120 V	EQUIVALENT MANUFACTURERS
T	BACK OF HOUSE PENDANT HE WILLIAMS 80R-8'-L60-8-30	42W	3000K/80	120 V	EQUIVALENT MANUFACTURERS

EXTERIOR LUMINAIRE SCHEDULE

LISTED, APPROVED EQUALS: IT IS NOT UNDERSTOOD THAT THIS IMPLIES THAT A STANDARD LUMINAIRE IS ACCEPTABLE. THE LUMINAIRE MUST MEET ALL TECHNICAL REQUIREMENTS AS WELL AS BEING NAMED. ALTERNATE MANUFACTURERS ARE NOT ACCEPTABLE UNLESS APPROVED BY OWNER PRIOR TO THE G.M.P. ISSUE. REFER TO SPECIFICATION SECTION 26 50 00 FOR ADDITIONAL INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING MOUNTING TYPE (SURFACE, RECESSED, LAY-IN, FLANGED, WALL, PENDANT, ETC). UNLESS OTHERWISE NOTED, ALL CCT AND CRI RATINGS ARE TO BE CONSISTENT THOUGH OUT THE LUMINAIRE PACKAGE. ALL DRIVERS ARE TO BE ELECTRONIC WITH 0-10V DIMMING CAPABILITY. ALL LENSES ARE TO BE SHIPPED WITHIN A PROTECTIVE COVERING. EMERGENCY FIXTURES ARE INDICATED AS PARTIALLY SHADED AND/ OR WITH AN "E" SUFFIX, FOR EXAMPLE, "A4E".

TAG	DESCRIPTION MANUFACTURER: MODEL NUMBER	LAMP WATTAGE	CCT/ CRI	VOLTAGE	EQUIVALENT MANUFACTURERS
BOL	BOLLARD LUMENBLADE BLDB-TM1-120/277-FSL-N05-40K-CRI 80-5			120 V	EQUIVALENT MANUFACTURERS
COL	COLUMN LUMENBLADE BLDC-TM1-120/277-CSL-XS15-40K-CRI 80-4BLS			120 V	EQUIVALENT MANUFACTURERS
COL-5	COLUMN LUMENBLADE BLDC-TM1-120/277-CSL-XS25-40K-CRI 80-5S			120 V	EQUIVALENT MANUFACTURERS
CV	ACCLAIM FLEX TUBE FXX-22X-XXX-XEN			120 V	EQUIVALENT MANUFACTURERS
KL	ILLUMINATED HANDRAIL IRAI LINEAR 3000K			120 V	EQUIVALENT MANUFACTURERS
PL-3	DSX0 LED-P4-30K-80CRI-T3M			120 V	EQUIVALENT MANUFACTURERS
PL-4	DSX0 LED-P4-30K-80CRI-TFTM HS			120 V	EQUIVALENT MANUFACTURERS
PL-5W	DSX0 LED-P3-30K-80CRI-T5W			120 V	EQUIVALENT MANUFACTURERS
PL-32	DSX0 LED-P1-40K-80CRI-T3M HS			120 V	EQUIVALENT MANUFACTURERS
PL-BLC	DSX0 LED-P3-30K-80CRI-BLC4			120 V	EQUIVALENT MANUFACTURERS
STP	STEP LIGHT DWN-1-10-60-CT30-DC-ND-GR			120 V	EQUIVALENT MANUFACTURERS
FP	FLAG POLE LIGHTING ERCOLIGHTSCAN PROJECTOR 34891.023	21W		120 V	EQUIVALENT MANUFACTURERS

PANEL SCHEDULE — LS

PANEL LABEL: LS — **MAINS:** 100 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPL — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 **Ø** 4 **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1	20 A	1	LIGHTING	GROUND EM LIGHTING	648	■			878	1F EAST EM LIGHTING	LIGHTING	1	20 A	2
3	20 A	1	LIGHTING	2F WEST EM LIGHTING	719		■		584	2F EAST EM LIGHTING	LIGHTING	1	20 A	4
5	20 A	1	LIGHTING	1F SOUTH EM LIGHTING	56			■	286	STAIR EM LIGTHING	LIGHTING	1	20 A	6
7	20 A	1	LIGHTING	STAIR 5 CIRCUIT 2	32	■			32	STAIR 5 EM LIGHTING	LIGHTING	1	20 A	8
9	20 A	1	LIGHTING ELEV...	ELEVATOR PIT LIGHTING	64		■		116	1F NORTH EM LIGHTING	LIGHTING	1	20 A	10
11	20 A	1	LIGHTING	STAIR 5 1F LIGHTING	96			■	0	STAIR 4 EM LIGHTING	LIGHTING	1	20 A	12
13	20 A	1	LIGHTING	TWEENS EM LIGHTING	392	■			192	EM LIGHTING PAKING	LIGHTING	1	20 A	14
15							■							16
17								■						18
19						■								20
21							■							22
23								■						24
25						■								26
27							■							28
29								■						30
31						■								32
33							■							34
35								■						36
37						■								38
39							■							40
41								■						42
				TOTAL WATTS	4095 VA						TOTAL AMPS	11 A		

PANEL SCHEDULE — 2F EAST

PANEL LABEL: 2F EAST — **MAINS:** 225 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPL — **LUGS:** — **MOUNTING:** SURFACE
VOLT 208/120 Wye — 3 **Ø** 4 **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 44"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1	20 A	1	LIGHTING	READING 200 LIGHTING 1	1650	■			1172	DISTRICT 214 LIGHTING	LIGHTING	1	20 A	2
3	20 A	1	LIGHTING	READING 200 LIGHTING 2	1128		■							4
5	30 A	2	Other MECHANICAL 229	MECH 229 UHB-1	5000			■	4500	EWH-3	Other	2	40 A	6
7						■								8
9	30 A	2	Other MECHANICAL 229	MECH 229 UHB-2	5000		■		4500	EWH-4	Other MECHANICAL 229	2	40 A	10
11								■	1872	VAV2-2.7	Other STORAGE 217	2	20 A	12
13	20 A	1	RECEPTACLE...	CONF ROOM 220	1440	■								14
15	20 A	1	RECEPTACLE...	TOILET 218	360		■							16
17	20 A	1	RECEPTACLE...	LOWER ROOFTOP RECPT	900			■	3120	VAV2-2.8	Other	2	20 A	18
19	20 A	1	RECEPTACLE...	READING 200	1080	■			1080	DISTRICT 214 RECPT	RECEPTACLE...	1	20 A	20
21	20 A	1	RECEPTACLE...	CORR 227	1080		■		720	CORR 227-2	RECEPTACLE...	1	20 A	22
23	20 A	1	EQUIPMENT	EF-L	800			■	100	EF-3	EQUIPMENT	1	20 A	24
25	20 A	1	POWER READIN...	READING 200-2	900	■			3120	VAV2-2.6	Other READING 200	2	20 A	26
27	20 A	1	RECEPTACLE...	FRIENDS BOOKSTORE	1260		■							28
29	20 A	2	Other READING 200	VAV2-2.4	3120			■	1080	READING 200-3	RECEPTACLE...	1	20 A	30
31						■			3120	VAV2-2.5	Other READING 200	2	20 A	32
33	20 A	1	RECEPTACLE	POD 213	900		■							34
35	20 A	2	Other READING 200	VAV2-2.2	3120			■	1260	READING 200 DESK	RECEPTACLE...	1	20 A	36
37						■			3000	CUH-A	Other	2	15 A	38
39	20 A	1	EQUIPMENT	ELEC SHADE-2	500		■							40
41	25 A	2	EQUIPMENT	HP 1.5	3328			■	50	BR-4	Other	1	20 A	42
43						...			540	ELEC ROOM RECPT	RECEPTACLE...	1	20 A	44
45	20 A	1	RECEPTACLE...	220 RACK 1	360		...		360	220 RACK 2	RECEPTACLE...	1	20 A	46
47														48
49														50
51														52
53														54
55														56
57														58
59														60
61														62
63														64
65														66
67														68
69														70
71														72
73	20 A	1	SPARE		--	...			--		SPARE	1	20 A	74
75	20 A	1	SPARE		--		...		--		SPARE	1	20 A	76
77	20 A	1	SPARE		--			...	--		SPARE	1	20 A	78
79	20 A	1	SPARE		--	...			--		SPARE	1	20 A	80
81	20 A	1	SPARE		--		...		--		SPARE	1	20 A	82
83	20 A	1	SPARE		--			...	--		SPARE	1	20 A	84
				TOTAL WATTS	61520 VA						TOTAL AMPS	171 A		

PANEL SCHEDULE — HR

PANEL LABEL: HR — **MAINS:** 800 A — **ENCLOSURE**
A.I.C. — **MCB:** — **NEMA:** Type 1
SERVED VIA MDPH — **LUGS:** — **MOUNTING:** SURFACE
VOLT 480/277 Wye — 3 **Ø** 4 **WIRE** — **TOP** — **BOTTOM:** — **WIDTH:** 20"

CKT	TRIP	POLE	LOAD TYPE	DESCRIPTION/ LOCATION	WATT	A	B	C	WATT	DESCRIPTION/ LOCATION	LOAD TYPE	POLE	TRIP	CKT
1	150 A	3	EQUIPMENT	RTU-3	132190	■			15000	FTU2-2.1	Other READING 200	3	20 A	2
3							■							4
5								■						6
7	30 A	3	Other READING 200	VAV2-2.3	4406	■			4000	FTU1-2.4	Other RECORDING 204	3	30 A	8
9							■							10
11								■						12
13	30 A	3	Other LOCAL HISTORY COLLECTION 203	FTU1-2.1	3000	■			4406	VAV1-2.1	Other REFERENCE 206	3	30 A	14
15							■							16
17								■						18
19	20 A	3	Other REFERENCE 206	VAV1-2.5	8147	■			13000	FTU1-2.5	Other REFERENCE 206	3	20 A	20
21							■							22
23								■						24
25	20 A	3	Other DEMONSTRATION KITCHEN 209	FTU1-2.6	9000	■			4403	VAV1-2.6	Other DEMONSTRATION KITCHEN 209	3	30 A	26
27							■							28
29								■						30
31	20 A	3	Other READING 200	FTU1-2.3	5000	■			11000	FTU1-2.2	Other READING 200	3	20 A	32
33							■							34
35								■						36
37	20 A	3	Other READING 200	VAV2-2.1	7482	■			3500	VAV 1-2.7	Other READING 200	3	30 A	38
39							■							40
41								■						42
43	250 A	3	EQUIPMENT	RTU-1	162119	...			132190	RTU-2	EQUIPMENT	3	250 A	44
45							...							46
47														48
49														50
51														52
53														54
55														56
57														58
59														60
				TOTAL WATTS	518843 VA						TOTAL AMPS	624 A		

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MICHAEL WITKOWSKI — ENGINEER — 05/05/2026

McHUGH ENGINEERING ASSOCIATES INC.
135 Poplar Street, Ambler, PA 19002
1950 Route 70, Suite 702, Cherry Hill, NJ 08003
www.mchughengineering.com
215.641.1900

MONTGOMERY COUNTY
NORRISTOWN PUBLIC LIBRARY
Project No. 23-033
1001 POWELL ST. NORRISTOWN, PA 19401

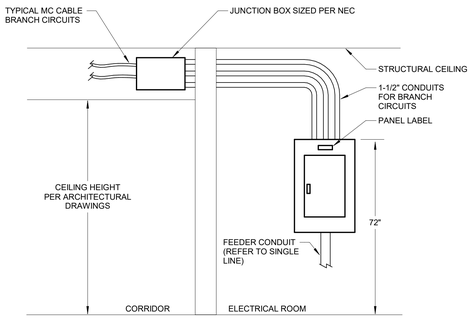
CONSTRUCTION ISSUE DATE:
DRAWN BY: IM
CHECKED BY: Checker
SCALE: AS NOTED

DETAILS- ELECTRICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

E2.4

4/21/2026 10:26:00 PM

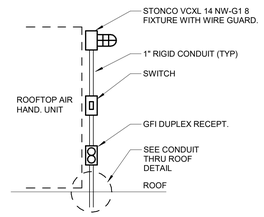


NOTE:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INCREASING WIRE SIZE FROM PANELBOARD TO JUNCTION BOX IN CORRIDOR.

1 TYPICAL SURFACE MOUNTED PANELBOARD INSTALLATION DETAIL

SCALE: NONE



ALL DEVICES ARE TO BE WEATHERPROOF AND PROPERLY SUPPORTED ON AIR HANDLING UNIT.

2 ROOFTOP LIGHTING AND POWER DETAIL

SCALE: NONE

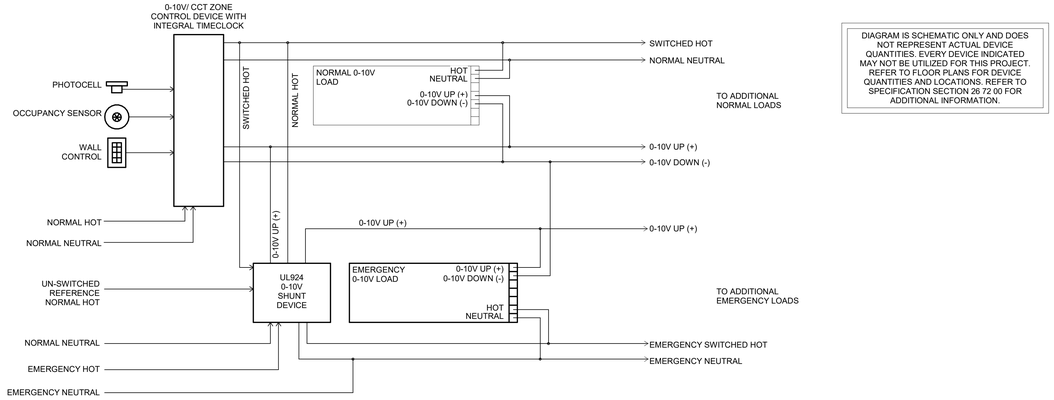


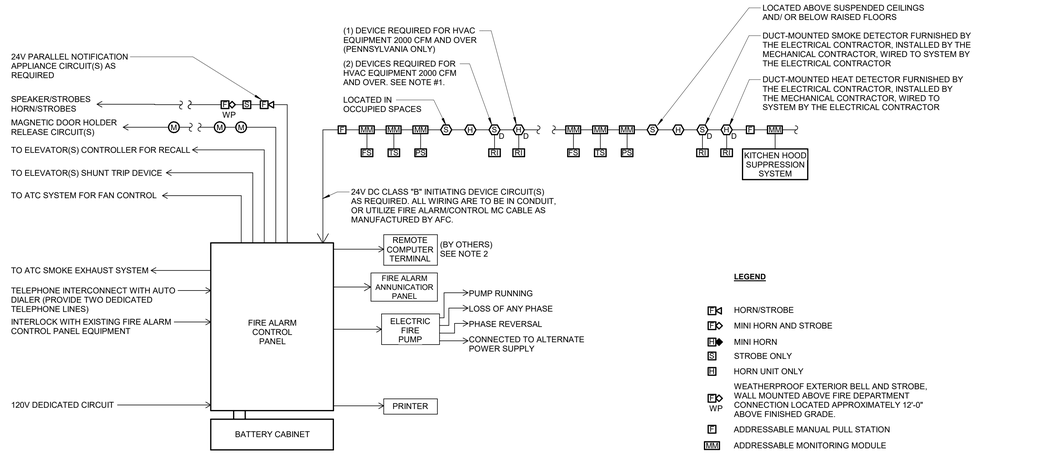
DIAGRAM IS SCHEMATIC ONLY AND DOES NOT REPRESENT ACTUAL DEVICE QUANTITIES. EVERY DEVICE INDICATED MAY NOT BE UTILIZED FOR THIS PROJECT. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS. REFER TO SPECIFICATION SECTION 26 72 00 FOR ADDITIONAL INFORMATION.

NOTES:

1. PROVIDE NORMAL POWER REFERENCE LINE FROM LOCAL AREA CIRCUIT. CONNECT AHEAD OF ANY SWITCHING.
2. ZONE CONTROL AND UL924 SHUNT DEVICE(S) ARE TO BE MOUNTED IN A CONCEALED, ACCESSIBLE LOCATION.

3 THREE ZONE, 0-10V LIGHTING CONTROL WIRING DIAGRAM

SCALE: NONE



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NOTES:

1. ONE SMOKE DETECTOR MAY BE INSTALLED WHERE DIRECTED BY THE LOCAL AUTHORITY IN LIEU OF TWO WHEN SYSTEMS ARE BETWEEN 2,000 AND 15,000 CFM.
2. PROVIDE MODEM, SOFTWARE, AND HARDWARE AS NECESSARY TO ALLOW REMOTE SUPERVISORY ACCESS.
3. FOR BASE BUILDING INSTALLATIONS, THE CONTROL PANEL IS TO CONTAIN SUFFICIENT CAPACITY FOR ONE POINT FOR EVERY 100 SQ.FT. OF BUILDING SPACE (I.E., 12,5000 SQ.FT. = 1,250 DEVICE POINTS).

LEGEND

- HORN/STROBE
- MINI HORN AND STROBE
- MINI HORN
- STROBE ONLY
- HORN UNIT ONLY
- WEATHERPROOF EXTERIOR BELL AND STROBE, WALL MOUNTED ABOVE FIRE DEPARTMENT CONNECTION LOCATED APPROXIMATELY 12'-0" ABOVE FINISHED GRADE.
- ADDRESSABLE MANUAL PULL STATION
- MM — ADDRESSABLE MONITORING MODULE
- CM — CONTROL MODULE
- PS — SPRINKLER SYSTEM FLOW SWITCHES: ALLOW FOR ____
- TS — SPRINKLER SYSTEM TAMPER SWITCHES: ALLOW FOR ____
- PS — DRY-PIPE SPRINKLER SYSTEM LOW PRESSURE SWITCHES: ALLOW FOR____
- RI — REMOTE INDICATOR
- S — ADDRESSABLE AREA SMOKE DETECTOR
- H — ADDRESSABLE HEAT DETECTOR
- S$_D$ — ADDRESSABLE DUCT SMOKE DETECTOR WITH TWO AUXILIARY CONTACTS
- H$_D$ — ADDRESSABLE DUCT HEAT DETECTOR WITH TWO AUXILIARY CONTACTS
- S$_E$ — ELEVATOR RECALL WITH AUXILIARY CONTACTS
- S$_{SC}$ — HARD WIRED, SELF-CONTAINED SMOKE DETECTOR (SINGLE STATION SMOKE ALARM)
- S$_A$ — SMOKE DETECTOR - AUDIBLE SIGNAL
- S$_{XX}$ — BEAM SMOKE DETECTOR. S = SENDING UNIT, R = RECEIVER
- M — MAGNETIC DOOR HOLDER
- FF — FIREFIGHTER TELEPHONE JACK

4 ADDRESSABLE FIRE ALARM SYSTEM SCHEMATIC WIRING DIAGRAM

SCALE: NONE

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05/05/2026

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CONSTRUCTION ISSUE DATE:
DRAWN BY: IM
CHECKED BY: Checker
SCALE:AS NOTED

DETAILS- ELECTRICAL

NO.	DESCRIPTION	DATE
	SCHEMATIC DESIGN	10/25/24
	DESIGN DEVELOPMENT	02/21/25
	BID & PERMIT	10/03/25

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