

Addition & Interior Renovations

for the

Marlboro Free Library

1251 Route 9W, Marlboro, NY 12542

Abbreviations

AFG	ABOVE FINISH GRADE	HM	HOLLOW METAL
ALUM	ALUMINUM	HR	HOUR
APPROX	APPROXIMATE	INSUL	INSULATION
BM	BEAM	LG	LIGHT GAUGE METAL FRAMING
CL	CENTERLINE	MAX	MAXIMUM
CJ	CONTROL JOINT	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MO	MASONRY OPENING
COL	COLUMN	NIC	NOT IN CONTRACT
CONC	CONCRETE	OPN'G	OPENING
CONT	CONTINUOUS	OPP	OPPOSITE
COORD	COORDINATE	PT	PRESSURE TREATED
ELEV	ELEVATION	REQ	REQUIREMENTS
EP	ELECTRICAL PANEL	RO	ROUGH OPENING
EXIST	EXISTING	SIM	SIMILAR
ETR	EXISTING TO REMAIN	STL	STEEL
FND	FOUNDATION	TYP	TYPICAL
FTG	FOOTING	UCON	UNLESS OTHERWISE NOTED
GWB	GYPSUM WALL BOARD	VIF	VERIFY IN FIELD
		W	WITH
		W/O	WITHOUT
		WD	WOOD

Library Director:

Lindsay Jankovitz

Library Board of Trustees:

Denise Garofalo, President
Kelli Kavanaugh, Vice President
Cheryl Werba, Secretary
Anita Jean McMonigle
Benjamin Kolansky

Architect:

Butler Rowland Mays Architects, LLP
57 West High Street
Ballston Spa, New York 12020
ph: (518) 885-1255
www.brmaarchitects.com

Site Engineer:

Engineering & Surveying Properties, PC
71 Clinton Street
Montgomery, NY 12549
ph: (845) 457-7727

Structural Engineer:

Preston Engineering, PLLC
1 Avian Drive
East Greenbush, NY 12061
ph: (518) 396-9080

Mechanical, Electrical, Plumbing Engineers:

Sage Engineering Associates, LLP
9 Columbia Circle
Albany, NY 12203
ph: (518) 453-6091

THE ARCHITECT CERTIFIES THAT THIS PROJECT HAS BEEN DESIGNED BY ME, OR UNDER MY SUPERVISION, IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE / NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, LATEST VERSION, THE 2002 NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE (OR LATEST VERSION), AND APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES, AND REGULATIONS, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DOCUMENTS ARE IN CONFORMANCE THEREWITH.

Steven G. Rowland
STEVEN G. ROWLAND, RA
024705
NYS REGISTRATION No.
5/20/2025
DATE

THIS BUILDING MEETS OR EXCEEDS THE SEISMIC STRUCTURAL REQUIREMENTS OF THE BUILDING CODE OF NEW YORK STATE AND THEREFORE SATISFIES THE REQUIREMENTS AS ESTABLISHED UNDER THE NATIONAL EARTHQUAKE HAZARD REDUCTION PROTECTION ACT (NEHRPA).

Schedule of Drawings

G1 COVER

SITE

C100 EXISTING CONDITIONS & DEMOLITION PLAN
C101 SITE PLAN
C102 GRADING & DRAINAGE PLAN
C301 DETAILS

STRUCTURAL

S100 GENERAL NOTES AND SPECIFICATIONS
S101 FOUNDATION PLAN
S102 ROOF FRAMING PLAN
S200 TYPICAL FOUNDATION SECTIONS + DETAILS
S201 FOUNDATION SECTIONS
S300 FRAMING SECTIONS + DETAILS
S301 ROOF FRAMING SECTIONS AND DETAILS
S400 LINTEL DETAILS
S500 TYPICAL COLD FORMED METAL FRAMING DETAILS

ARCHITECTURAL

AR100 EXIST. CONDITIONS & REMOVALS PLAN
AR101 EXIST. REFLECTED CEILING PLAN & REMOVALS
A100 OVERALL FLOOR PLAN
A101 REFLECTED CEILING PLAN
A102 ROOF PLAN & DETAILS
A103 FLOOR FINISH PLAN
A200 ELEVATIONS
A201 SECTIONS
A300 WALL SECTIONS
A301 WINDOW & DOOR DETAILS
A302 DETAILS
A400 RESTROOM PLANS & ELEVATIONS
A600 MILLWORK
F100 FURNITURE FLOOR PLAN

PLUMBING

P001 LEGEND, SYMBOLS AND DETAILS
P002 DETAILS
PR101 SANITARY, VENT & STORM REMOVAL PLAN
PR102 DOMESTIC WATER REMOVAL PLAN
P101 SANITARY, VENT & STORM INSTALLATION PLAN
P102 DOMESTIC WATER INSTALLATION PLAN

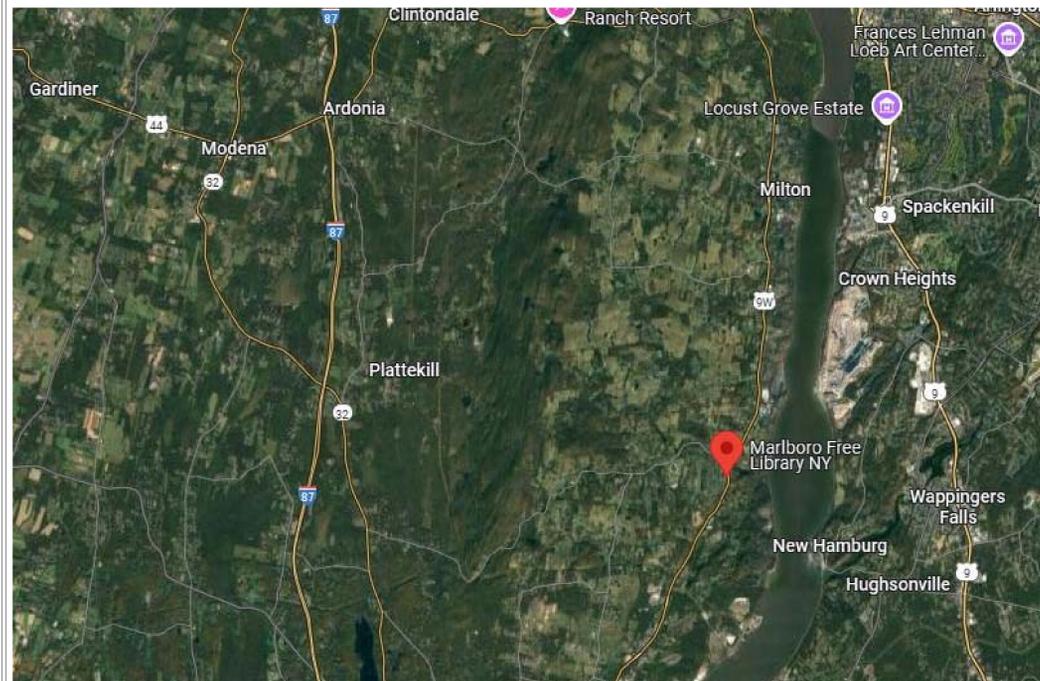
MECHANICAL

M001 LEGEND, SYMBOLS AND NOTES
M002 DETAILS
M003 DETAILS
MR101 REMOVALS PLAN
MR102 ROOF REMOVALS PLAN
M101 HVAC INSTALLATION PLAN
M102 HVAC ROOF INSTALLATION PLAN

ELECTRICAL

E001 ELECTRICAL LEGEND, NOTES & DETAILS
ER101 POWER AND DATA REMOVALS PLAN
ER201 LIGHTING REMOVALS PLAN
ER301 FIRE ALARM REMOVALS PLAN
E101 POWER AND DATA PLAN
E102 MECHANICAL POWER PLAN
E201 LIGHTING PLAN
E301 FIRE ALARM PLAN
E501 LIGHTING FIXTURE SCHEDULE
E601 PANEL SCHEDULES
E602 PANEL SCHEDULES

Overall Site Plan



General Notes

- G-1. DO NOT SCALE THE DRAWINGS.
- G-2. UNLESS NOTED OTHERWISE, ALL INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF FRAMING, CENTERLINE OF STEEL, OR EDGE OF ROUGH OPENING.
- G-3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING ANY CONSTRUCTION WORK.
- G-4. UNAUTHORIZED ADDITIONS TO OR ALTERATIONS OF THESE DOCUMENTS WITHOUT CONSULTING THE ARCHITECT IS A VIOLATION OF NYS EDUCATION LAW.
- G-5. ALL MATERIALS, PRODUCTS AND FINISHES SHALL BE INSTALLED IN FULL COMPLIANCE WITH ALL MANUFACTURER'S INSTRUCTIONS.
- G-6. THE CONTRACTOR SHALL OBTAIN ALL LICENSES AND PERMITS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
- G-7. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY.
- G-8. ALL WORK IS TO BE IN STRICT ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE, THE MECHANICAL AND PLUMBING CODES OF NEW YORK STATE, THE ENERGY CONSERVATION CODE OF NEW YORK STATE, THE NATIONAL ELECTRIC CODE AND ANY LOCAL ORDINANCES.
- G-9. GENERAL CONTRACTOR SHALL INSTALL ALL MISCELLANEOUS BLOCKING IN PARTITIONS AS REQUIRED TO SUPPORT AND FRAME WALL MOUNTED ITEMS.

Symbols Legend

	ENLARGED PLAN or DETAIL NUMBER
	SHEET LOCATION
	BUILDING SECTION NUMBER
	SHEET LOCATION
	WALL SECTION NUMBER
	SHEET LOCATION
	NEW WALL CONSTRUCTION
	EXISTING WALL
	NEW DOOR
	EXISTING DOOR

ARCHITECTS JOB No: 23-46-06
ISSUE DATE:

DWG. No.
A001

GENERAL NOTES:

- 1 THE WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE 2020 BUILDING CODE OF NEW YORK STATE.
2 THE STRUCTURAL COMPONENTS HAVE BEEN DESIGNED FOR THE FOLLOWING LOADS:
A FLOOR LIVE LOAD:
LIBRARY: 100 PSF
LOBBY: 100 PSF
MEETING ROOM: 100 PSF
B ROOF SNOW LOAD:
GROUND SNOW LOAD (Pg) 40 PSF
1 FLAT ROOF SNOW LOAD (Pf) 40 PSF
2 SNOW EXPOSURE FACTOR (Ce) 1.0
3 SNOW IMPORTANCE FACTOR (Is) 1.0
4 THERMAL FACTOR (Ct) 1.1
5 UNBALANCED SNOW LOAD N/A
6 DRIFT SURCHARGE LOAD (Pd) 18 PSF
C ROOF LIVE LOAD: 20 PSF
D WIND DESIGN DATA:
1 BASIC WIND SPEED (3-SECOND GUST) 110 MPH
2 RISK CATEGORY II B
3 WIND EXPOSURE B
4 INTERNAL PRESSURE COEFFICIENT ±0.18
5 COMPONENTS AND CLADDING (A = 50 SF) WITHIN 8 FT OF CORNER:
WALLS: +30.4 PSF
OTHER: -36.2 PSF
+30.4 PSF
-32.5 PSF
+19.4 PSF
-40.4 PSF
+19.4 PSF
-29.9 PSF
E EARTHQUAKE DESIGN DATA:
1 SEISMIC IMPORTANCE FACTOR (IE) 1.00
2 MAPPED SPECTRAL RESPONSE SS
SS 0.212g
S1 0.056g
D
3 SITE CLASS D
4 SPECTRAL RESPONSE COEFFICIENTS SDS 0.339g
SD1 0.134g
5 SEISMIC DESIGN CATEGORY B
6 BASIC SEISMIC-FORCE-RESISTING SYSTEM STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
7 DESIGN BASE SHEAR 0.0754*W
8 SEISMIC RESPONSE COEFFICIENT (CS) 0.0754
9 RESPONSE MODIFICATION FACTOR (R) 3
10 ANALYSIS PROCEDURE USED EQUIVALENT LATERAL FORCE PROCEDURE
F INTERIOR PARTITION: 5 PSF
G OTHER LOADS:
CONCENTRATED LOADS ON ALL FLOORS (ON 2-1/2 FEET SQUARE) 2,000 LBS OR AS INDICATED IN PLAN

- 3 ALL STRUCTURAL WORK SHOWN OR SPECIFIED ON THESE DRAWINGS IS SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER OF RECORD. ASPECTS OF THE WORK FOUND TO BE DEFECTIVE BECAUSE IT DOES NOT MEET THE REQUIREMENTS SHOWN OR SPECIFIED SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER AS DIRECTED BY THE ENGINEER.
4 THIS WORK HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO ALL ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, JOBSITE SAFETY, ERECTION METHODS, ERECTION SEQUENCE, TEMPORARY BRACING AND SHORING, USE OF EQUIPMENT AND SIMILAR CONSTRUCTION PROCEDURES. REVIEW OF CONSTRUCTION BY THE ENGINEER IS FOR CONFORMANCE WITH THE DESIGN ASPECTS ONLY. NOT TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES. LACK OF COMMENT ON THE PART OF THE ENGINEER WITH REGARD TO CONSTRUCTION PROCEDURES IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE PROCEDURES.
5 FOUR COPIES OF SHOP DRAWINGS (ERECTION AND DETAIL DRAWINGS) SHALL BE SUBMITTED BY THE CONTRACTOR THROUGH THE ARCHITECT TO THE ENGINEER FOR REVIEW FOR ALL REINFORCING BARS, AND WOOD TRUSSES. SHOP DRAWINGS SHALL INDICATE THE FABRICATOR, MANUFACTURER, LAYOUT, MATERIALS, FINISH, AND ACCESSORIES, AND SHALL BE CHECKED BY THE CONTRACTOR AND BEAR THE CHECKER'S INITIALS BEFORE SUBMISSION TO THE ARCHITECT AND ENGINEER. STRUCTURAL DRAWINGS WILL NOT BE USED AS SHOP DRAWINGS.
6 THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ANGLES AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK.
7 ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLIED FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.
8 IF FAULTY CONSTRUCTION PROCEDURES, OR MATERIAL, RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING TIME TO DEVISE CORRECTIVE MEASURES, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE OF ADDITIONAL SERVICES. SUCH FEES MAY BE WITHHELD FROM THE CONTRACTOR'S PAYMENT.
9 DO NOT SCALE DRAWINGS.

- FOUNDATION AND EXCAVATION NOTES:
1 THE NEW FOUNDATIONS HAVE BEEN DESIGNED TO REST ON NATIVE SOIL OR CONTROLLED FILL HAVING A PRESUMPTIVE BEARING VALUE OF 3,000 PSF EXPECTED TO BE FOUND AT THE BOTTOM OF THE REQUIRED EXCAVATION, TO BE CONFIRMED DURING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IF SOIL OF QUESTIONABLE CAPACITY IS ENCOUNTERED DURING EXCAVATION.
2 WITHIN THE PERIMETER OF THE PROPOSED STRUCTURE STRIP THE GROUND SURFACE OF ALL EXISTING FILL AND ORGANIC MATERIAL THEN COMPACT THE TOP OF THE REMAINING SURFACE. THE EXTENT OF REMOVAL SHALL EXTEND AT LEAST 12" BELOW THE BOTTOM OF FOOTING ELEVATION, AND SHALL EXTEND 5'-0" MIN. BEYOND THE BUILDING PERIMETER. PLACE MIRAFI 500X OR EQUIVALENT GEOTEXTILE STABILIZATION FABRIC OVER THE COMPACTED SUBGRADE FOLLOWED BY 1'-0" OF CRUSHED STONE OR 1/2" OF MYSDOT No. 1 AND No. 2. ANOTHER LAYER OF GEOTEXTILE STABILIZATION FABRIC, AND EITHER LIFTS OF ADDITIONAL CRUSHED STONE OR STRUCTURAL FILL (PER THE GEOTECHNICAL REPORT) UP TO THE SUB-GRADE ELEVATION FOR FOUNDATIONS AND SLABS. SEE GEOTECHNICAL REPORT FOR APPROXIMATE DEPTHS OF EXCAVATION REQUIRED.
3 THE BOTTOM OF EXTERIOR FOOTINGS NOT ON SOLID ROCK SHALL BE AT LEAST 4'-0" BELOW FINISHED GRADE. THE SURFACE OF THE SOIL BELOW ALL FOOTINGS SHALL BE MECHANICALLY COMPACTED PRIOR TO SETTING FOOTING FORMS. FOOTINGS ON LEDGE SHALL REST ON BROOM CLEAN SOLID ROCK. IF THE SLOPE OF THE ROCK SURFACE EXCEEDS 1 ON 6, THE FOOTING SHALL BE DOWELED TO THE LEDGE WITH 3/4" STEEL RODS DRILLED 10 INCHES INTO THE ROCK SURFACE AT 2 FEET ON CENTER.
4 PROTECT ALL SOIL UNDER FOUNDATIONS FROM FREEZING DURING CONSTRUCTION. DO NOT POUR CONCRETE ON FROZEN SOIL.
5 IF STANDING WATER IS PRESENT IN THE FOOTING EXCAVATION A 4 TO 6 INCH THICK LAYER OF 3/4" CRUSHED STONE SHALL BE COMPACTED INTO THE BOTTOM OF THE EXCAVATION AND DEWATERING METHODS USED THAT WILL NOT UNDERMINE THE BEARING OF THE NEW FOOTINGS.
6 DO NOT UNDERMINE EXISTING OR NEWLY PLACED FOUNDATIONS BY EXCAVATING WITHIN A ZONE DIRECTLY BELOW THESE FOUNDATIONS AND EXTENDING DOWN AND OUTWARDS AT A 1 ON 1 SLOPE.
7 IN AREAS REQUIRING FILL, THE FILL MATERIAL SHALL BE A UNIFORMLY GRADED MIXTURE OF SAND AND GRAVEL WEIGHING NO LESS THAN 120 PCF DRY DENSITY AFTER COMPACTION IN PLACE. THIS MIXTURE SHALL BE UNIFORMLY GRADED HAVING NO STONE GREATER THAN 3 INCHES IN ANY ONE DIMENSION, 30-75% PASSING A 1/4" SIEVE, 1-40% PASSING A No. 40 SIEVE, AND WITH LESS THAN 10% PASSING A 2000 SIEVE (ALL PERCENTAGES BY WEIGHT). THE FILL SHALL BE PLACED IN MAXIMUM LIFTS OF 8 INCHES BEFORE COMPACTION. EACH LIFT SHALL BE COMPACTED WITH APPROPRIATE EQUIPMENT TO A MINIMUM OF 98% OF ITS MAXIMUM DENSITY AT OR NEAR OPTIMUM MOISTURE, AS DETERMINED BY MODIFIED PROCTOR TESTS. A SOILS TESTING LAB, HIRED BY THE OWNER, SHALL TEST THE MATERIAL BEFORE AND AFTER COMPACTION FOR CONFORMANCE WITH THIS SPECIFICATION. NO LIFTS SHALL BE PLACED WHEN WEATHER CONDITIONS ARE SUCH THAT THE MOISTURE CONTENT OF THE FILL CANNOT BE PROPERLY CONTROLLED.
8 IN PLACING AND COMPACTING FILL AND BACKFILL MATERIAL, DO NOT DAMAGE NOR DISPLACE CONCRETE WORK ALREADY IN PLACE BY CONTACT FROM COMPACTION MACHINERY, BY SUBJECTING IT TO OVERTURNING FROM HEAVY COMPACTION LOADINGS, OR ANY OTHER CAUSE. AT FROST WALLS BRING FILL AGAINST SUCH CONCRETE AT THE SAME RATE AS THE REMAINDER OF FILL, COMPACTING UNIFORMLY ON BOTH SIDES USING HAND OPERATED TAMPERS. IN BASEMENT CRAWL SPACE AREAS DO NOT BACKFILL AGAINST WALLS UNTIL THE FLOOR OR ROOF DECK BEARING ON THE WALLS HAS BEEN INSTALLED AND FULLY ATTACHED TO THE TOP OF THE FOUNDATION.
9 MINIMUM ANCHOR BOLT REQUIREMENTS FOR ATTACHMENT OF WOOD SUPERSTRUCTURE TO FOUNDATION SHALL BE AS FOLLOWS: 3/4" DIAMETER AT 4'-0" O.C. MAX SPACING
EMBED ANCHOR BOLTS A MINIMUM OF 15 INCHES INTO NEW MASONRY, 7 INCHES INTO NEW CAST CONCRETE. INSTALL BOLTS WITHIN 12 INCHES OF CORNERS ON ALL EXTERIOR WALLS. ANCHOR BOLTS ARE TO BE PLACED WITHIN ONE FOOT OF ALL CORNERS. ALL SILL PIECES SHALL HAVE A MINIMUM OF TWO ANCHOR BOLTS.

CONCRETE NOTES:

- 1 STRUCTURAL CONCRETE WORK SHALL CONFORM TO ALL THE REQUIREMENTS OF A.C.I. 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" IN ITS ENTIRETY. CERTAIN PORTIONS OF THIS SPECIFICATION ARE PRESENTED HERE ONLY FOR CLARIFICATION AND THE CONTRACTOR'S CONVENIENCE AND ARE NOT INTENDED TO REPLACE OR AMEND THIS SPECIFICATION.
2 CONCRETE SHALL BE NORMAL WEIGHT EXCEPT AS NOTED BELOW, DEVELOP A MINIMUM 28 DAY STRENGTH, F'C, AND HAVE A MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO, (W/C+P), AS FOLLOWS:
LOCATION F'C W/C+P
FOOTINGS, FOUNDATIONS 3000 PSI 0.50
INTERIOR SLABS ON GRADE 3500 PSI 0.45
EXTERIOR SLABS ON GRADE 4000 PSI 0.42
3 NO ADMIXTURES ARE PERMITTED WITHOUT THE ENGINEER'S WRITTEN PERMISSION. CONCRETE EXPOSED TO THE WEATHER, SUCH AS THAT USED IN FOUNDATION WALLS SHALL CONTAIN 6% ± 1.5% ENTRAINED AIR.
4 CEMENT SHALL BE TYPE I OR TYPE II AND CONFORM TO ASTM C 150.
5 OTHER CEMENTITIOUS MATERIAL SUCH AS FLYASH OR GROUND GRANULATED BLAST-FURNACE SLAG MAY BE BLENDED WITH CEMENT FOR USE IN THE CONCRETE MIX. FLYASH SHALL CONFORM TO ASTM C618 AND MAY REPLACE CEMENT IF THE FOLLOWING RANGES FOR THE 2 CLASSES OF FLYASH: CLASS C, 20 TO 35%, CLASS F, 15 TO 25%. GROUND GRANULATED BLAST-FURNACE SLAG SHALL CONFORM TO ASTM C989 AND MAY NOT EXCEED 50% OF TOTAL WEIGHT OF CEMENTITIOUS MATERIALS.
6 COARSE AGGREGATE SHALL BE 3/4" AND CONFORM TO ASTM C 33.
7 REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60.
8 NO WELDING OF REINFORCING WILL BE PERMITTED.
9 CONCRETE FORMWORK SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 6, ACI 318 - 14.
10 FABRICATION AND PLACEMENT OF REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 7, ACI 318 - 14.
11 THE PRODUCTION OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 5 ACI 318 - 14.
12 THE CONVEYANCE, PLACEMENT AND PROTECTION OF THE CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 5, ACI 308 - 14, SECTIONS 5.7 THROUGH 5.10. MECHANICAL VIBRATORS ARE TO BE USED TO CONSOLIDATE THE FRESHLY CAST CONCRETE AROUND THE REINFORCING AND AGAINST FORM SURFACES AND TO PREVENT THE FORMATION OF AIR OR STONE POCKETS, HONEYCOMBING, PITTING OR PLANES OF WEAKNESS. HOWEVER, CARE MUST BE USED TO AVOID OVERVIBRATION THAT CAN LEAD TO AGGREGATE SEGREGATION.
13 THE INSTALLATION OF SLABS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 11, ACI-301 - 14. INTERIOR FINISH SLAB SURFACES ARE TO HAVE A CLASS A STEEL TROWEL FINISH. SURFACES OF SLABS FORMING THE SUBSTRATE FOR MUDDJOBS ARE TO HAVE A CLASS C SCRATCHED SURFACE. EXTERIOR SLAB SURFACES ARE TO HAVE A CLASS B TOLERANCE WITH THE FINISH AS SPECIFIED ON THE ARCHITECTURAL DRAWINGS.
14 THE CURING AND PROTECTION OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 5 ACI 318 - 14, SECTIONS 5.11. CONCRETE SLABS SHALL BE PROTECTED FROM LOSS OF SURFACE MOISTURE FOR NOT LESS THAN 7 DAYS USING A CURING COMPOUND CONFORMING TO ASTM C 309 OR CONSTANTLY WETTED BURLAP. IF COLD WEATHER CONCRETING CONDITIONS EXIST AS DEFINED BY A PERIOD OF MORE THAN THREE DAYS WHEN THE AVERAGE OUTDOOR TEMPERATURE, (HIGH + LOW)/2, IS LESS THAN 40°F, THE PROCEDURES OUTLINED IN ACI 308R-16 STANDARD SPECIFICATION FOR "COLD WEATHER CONCRETING" SHALL BE UTILIZED. CURING COMPOUNDS SHALL BE COMPATIBLE WITH ANY INTENDED FLOORING OVERLAY. DO NOT INSTALL FINISH FLOORING UNTIL SLAB HAS ADEQUATELY DRIED PER THE FLOORING MANUFACTURER'S SPECIFICATIONS.
15 THE FOLLOWING SUBMITTALS ARE TO BE MADE TO AND APPROVED BY PRESTON ENGINEERING PRIOR TO COMMENCING ANY WORK:
(1) CONCRETE DESIGN MIX FOR EACH STRENGTH OF CONCRETE REQUIRED ATTESTING THAT THE MIXES CAN ATTAIN THE MINIMUM REQUIRED STRENGTHS IN ACCORDANCE WITH CHAPTER 5 OF ACI 318-14.
16 CONCRETE ENGINEERED REINFORCING FIBERS SHALL BE POLYPROPYLENE, COLLATED, FIBRILLATED FIBERS FROM FIBERMESH COMPANY, 4019 INDUSTRY DRIVE CHATTANOOGA, TN OR EQUAL APPROVED BY THE ENGINEER. FIBERS SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS BUT IN NO INSTANCE WITH A DOSAGE RATE OF LESS THAN 1 1/2 LB. OF FIBERS PER CUBIC YARD OF CONCRETE.
17 A DESIGNATED TESTING LABORATORY SHALL CONDUCT STRENGTH TEST IN ACCORDANCE WITH THE FOLLOWING PROCEDURES: (A STRENGTH TEST CONSISTS OF FOUR CONCRETE CYLINDERS.)
A MAKE ONE STRENGTH TEST FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF FROM EACH MIX DESIGN OF CONCRETE PLACED IN ANY ONE DAY, EXCEPT THAT IN NO CASE SHALL A GIVEN MIX DESIGN BE REPRESENTED BY LESS THAN FIVE TESTS.
B SECURE COMPOSITE SAMPLES IN ACCORDANCE WITH "METHOD OF SAMPLING FRESH CONCRETE" (ASTM C 172). EACH STRENGTH TEST SHALL BE OBTAINED FROM A DIFFERENT BATCH OF CONCRETE ON A REPRESENTATIVE, TRULY RANDOM BASIS, WHEN PUMPING OR PNEUMATIC EQUIPMENT IS USED, SAMPLES SHALL BE TAKEN AT THE DISCHARGE END.
C MOLD FOUR SPECIMENS FROM EACH SAMPLE IN ACCORDANCE WITH "METHOD OF MAKING AND CURING CONCRETE COMPRESSION AND FLEXURE SPECIMENS IN THE FIELD" (ASTM C 31), AND CURE UNDER STANDARD MOISTURE AND TEMPERATURE CONDITIONS, IN ACCORDANCE WITH SECTION 7(A) AND 7(B) OF THE ABOVE ASTM METHOD.
D DETERMINE SLUMP OF THE CONCRETE SAMPLE FOR EACH STRENGTH TEST AND WHENEVER CONSISTENCY OF CONCRETE APPEARS TO VARY USING "METHOD OF TEST OF SLUMP OF PORTLAND CEMENT CONCRETE" (ASTM C 143).
E DETERMINE AIR CONTENT OF NORMAL WEIGHT CONCRETE SAMPLE FOR EACH STRENGTH TEST IN ACCORDANCE WITH EITHER "METHOD OF TEST FOR AIR CONTENT OF FRESHLY MIXED CONCRETE BY PRESSURE METHOD" (ASTM C 231), "METHOD OF TEST FOR AIR CONTENT OF FRESHLY MIXED CONCRETE BY THE VOLUMETRIC METHOD" (ASTM C 173).
F TEST THREE SPECIMENS: ONE AT SEVEN DAYS, AND TWO AT 28 DAYS IN ACCORDANCE WITH "METHOD OF TEST FOR COMPRESSIVE STRENGTH OF MOLDED CONCRETE CYLINDERS" (ASTM C 39). THE 28 DAY TEST RESULT SHALL BE THE AVERAGE OF THE TWO SPECIMENS. IF THE AVERAGE OF THE TWO SPECIMENS IS LESS THAN THE REQUIRED STRENGTH, TEST THE FOURTH SPECIMEN AT 45 DAYS. WHEN HIGH EARLY STRENGTH IS REQUIRED, TWO SPECIMENS SHALL BE TESTED AT SEVEN DAYS.

STRUCTURAL STEEL NOTES:

- 1 DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AS ADOPTED IN 1999 BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
2 MATERIALS:
WIDE FLANGE(W) SHAPES: ASTM A 992
STANDARD (S), MISCELLANEOUS (M),
ANGLES (L), PILE(SHP): A572, GR 50
PLATES AND BARS: A36
HOLLOW STRUCTURAL SECTIONS (HSS)-
SQUARE, RECTANGULAR & ROUND: ASTM A 500, GRADE B
PIPE (P): ASTM A 53, TYPE S, GRADE B
BOLTS: ASTM A 325
ANCHOR RODS: ASTM F 1554
WELDING ELECTRODE: ASTM E70XX - LOW HYDROGEN
3 ALL WELDING SHALL CONFORM TO THE CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY AND BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH A W. S. STANDARDS. ALL WELDS ARE TO BE CLEANED OF SLAG TO PERMIT VISUAL INSPECTION.
4 PROVIDE BITUMASTIC PROTECTION COATING FOR ALL STRUCTURAL STEEL BELOW GRADE.
5 ALL STEEL MEMBERS AND BOLTING EXPOSED TO WEATHER (INCLUDING ALL CANOPY FRAMING) SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 123. MINIMUM ACCEPTABLE ZINC COATING WEIGHT SHALL BE 2 OZ. PER SQ. FT. SEE ARCH. DRAWINGS FOR FINISHED PAINT.
6 ALL FIELD WELDING IS TO BE VISUAL INSPECTED BY AN A.W.S. CERTIFIED WELD INSPECTOR. REPORTS ARE TO BE SENT TO THE ARCHITECT, ENGINEER, AND OWNER IN A TIMELY MANNER.

STEEL DECK NOTES:

- 1 STEEL DECK SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT SPECIFICATION AND CODE OF STANDARD PRACTICE OF THE STEEL DECK INSTITUTE (SDI).
2 SHOP DRAWINGS MUST INDICATE THE FINISH, TYPE, GAGE AND LAYOUT OF ALL DECK AND ACCESSORIES. DRAWINGS MUST BE SUBMITTED TO THE ENGINEER THROUGH THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
3 COMPOSITE FORMED STEEL FLOOR DECK SHALL BE 1 1/2" DEEP, 20 GAGE (UNCOATED STEEL THICKNESS = 0.0358"), UNLESS OTHERWISE NOTED, GALVANIZED, LOK-FLOOR, COMPOSITE FLOOR DECK, AS MANUFACTURED BY UNITED STEEL DECK, INC., OR AN APPROVED EQUAL.
4 THE STEEL DECK SHALL BE SUPPLIED IN MINIMUM LENGTHS AS REQUIRED TO PROVIDE A "3-SPAN" CONDITION. END CLOSURES, ROOF SUMPS, CLOSURES AT PENETRATIONS AND ALL OTHER ACCESSORIES FOR A COMPLETE INSTALLATION ARE REQUIRED.
5 METAL DECK MUST BE PROTECTED BEFORE AND AFTER ERECTION AND ALL DEBRIS CLEANED FROM ITS SURFACE WHERE CONCRETE WILL BE POURED.
6 STEEL FLOOR DECK SHALL BE PUDDLE WELDED TO SUPPORTING STEEL WITH 5/8" DIAM. PUDDLE WELDS AT 12" o.c. INTERMEDIATE SIDE LAP CONNECTIONS SHALL BE MADE WITH #10 SELF-TAPPING SCREWS. THE MAXIMUM SPACING OF SIDE LAP CONNECTIONS SHALL BE 3'-0".
7 FORMED STEEL ROOF DECK TO BE 1 1/2" 20 GAGE (UNCOATED STEEL THICKNESS = 0.0358") GALVANIZED, WIDE RIB, TYPE "WR" DECK, AS MANUFACTURED BY UNITED STEEL DECK, INC. OR AN APPROVED EQUAL.
8 FORMED STEEL ROOF DECK SHALL BE WELDED TO SUPPORTING STEEL WITH 5/8" Ø PUDDLE WELDS AT ALL EDGE RIBS PLUS A SUFFICIENT NUMBER OF INTERIOR RIBS TO LIMIT THE SPACING BETWEEN ADJACENT POINTS OF ATTACHMENT TO 6" o.c. UNLESS OTHERWISE NOTED ON DRAWINGS. INTERMEDIATE SIDE CONNECTIONS SHALL BE MADE WITH #10 SELF-TAPPING SCREWS AT MIDSPAN OR 3'-0" o.c., WHICHEVER IS SMALLER, UNLESS OTHERWISE NOTED ON DRAWINGS. END LAPS SHALL BE A MINIMUM OF 2" AND SHALL OCCUR OVER SUPPORTS. ROOF DECK USED AS EQUIPMENT SCREEN SHALL BE FASTENED WITH "TEK SCREWS" AS INDICATED IN SECTION.
9 CONNECTIONS SHALL BE MADE WITH A MINIMUM OF FOUR (4) #12-16 SCREWS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

COLD-FORMED METAL FRAMING NOTES:

- 1 DESIGN, FABRICATION AND ERECTION OF COLD-FORMED METAL FRAMING SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, BY THE AMERICAN IRON AND STEEL INSTITUTE AND THE SPECIFICATIONS OF THE MANUFACTURER OF THE COLD-FORMED METAL FRAMING.
2 ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, STEEL THICKNESS AND SPACING SHOWN ON THE DRAWINGS. STUDS, TRACKS, BRACING AND BRIDGING SHALL BE MANUFACTURED PER ASTM C955.
3 ALL STUDS, JOISTS AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A-446 WITH A MINIMUM WELD AS FOLLOWS:
16 GA. OR HEAVIER 50 KSI
18 GA. 37 KSI
20 GA. 33 KSI
4 ALL STUDS, JOISTS AND ACCESSORIES SHALL BE GALVANIZED WITH A MINIMUM G-60 COATING.
5 CONNECTIONS SHALL BE ACCOMPLISHED WITH SELF-DRIVING SCREWS OR WELDING SO THAT THE CONNECTION MEETS OR EXCEEDS THE DESIGN LOADS REQUIRED AT THAT CONNECTION.
ALL CONNECTIONS SHALL BE MADE WITH A MINIMUM OF FOUR (4) #12-16 SCREWS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
SCREW SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 1"
MINIMUM CONNECTION ANGLE THICKNESS SHALL BE 16 GA.
6 TRACKS SHALL BE SECURELY FASTENED TO THE STRUCTURE WITH SCREWS, BOLTS OR POWDER ACTUATED FASTENERS (PAFS). PROVIDE DEFLECTION TRACKS AT TOP OF NON-BEARING WALLS AND 1/2 INCH CLEARANCE BETWEEN TOP OF STUD AND BASE OF TRACK.
7 PROVIDE CONTINUOUS MECHANICAL BRIDGING OR BRACING FOR WALL STUDS AT NO MORE THAN 5 FEET ON CENTER, 10 FEET ON CENTER FOR JOIST OR RAFTER CONSTRUCTION. TEMPORARY BRACING SHALL BE LEFT IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED WITH THE INSTALLATION OF SHEATHING OR FINISH PANELS.
8 WELDING SHALL CONFORM TO STRUCTURAL WELDING CODE D1.1 AND SPECIFICATION FOR WELDING SHEET IN STRUCTURES E1.3 OF THE AMERICAN WELDING SOCIETY AND BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH AWS STANDARDS.
9 TOUCHUP PAINT: IMMEDIATELY AFTER FABRICATION AND ERECTION, CLEAN WELDS, FASTENERS AND DAMAGED GALVANIZED SURFACES TOUCHUP AND REPAIR SURFACES WITH GALVANIZED REPAIR PAINT IN ACCORDANCE WITH ASTM A780, APPLIED BY BRUSH OR SPRAY TO PROVIDE MINIMUM DRY FILM THICKNESS OF 2.0 MILS.
10 ALL FRAMING COMPONENTS: CUT SQUARELY OR AT AN ANGLE TO FIT SQUARELY AGAINST ABUTTING MEMBERS. ALL MEMBERS HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED. ERECT ALL MEMBERS LEVEL, PLUMB AND TRUE TO LINE AND TO DIMENSIONS AND ELEVATIONS INDICATED.
11 ALL BUILT-UP FRAMING MEMBERS SHALL BE WELDED CONSTRUCTION, UNLESS OTHERWISE NOTED.
12 AVOID HOLES AT END OF MEMBERS. HOWEVER, SHOULD HOLES OCCUR, PROVIDE ADDITIONAL REINFORCING AT ENDS OF THE MEMBER WHERE HOLES OCCUR, UNLESS OTHERWISE NOTED.
13 PROVIDE LATERAL BRACING, BRIDGING AND WEB STIFFENERS FOR VERTICAL AND HORIZONTAL FRAMING MEMBERS, AND OTHER FRAMING MEMBERS, AS REQUIRED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS OR RECOMMENDATIONS, UNLESS OTHERWISE NOTED IN THE DRAWINGS.
14 SPLICES IN STUDS AND OTHER FRAMING COMPONENTS ARE NOT PERMITTED.
15 MEMBER SHAPE DESIGNATIONS AND SECTION PROPERTIES ARE BASED ON MARINO/WARE STUD-RITE LIGHTWEIGHT STEEL FRAMING SYSTEMS CATALOG (WARE INDUSTRIES, INC. IN SOUTH PLAINFIELD, NJ). SUBSTITUTIONS FOR MARINO/WARE ARE ACCEPTABLE IF THE SECTION PROPERTIES OF THE SUBSTITUTED SHAPE ARE EQUAL TO OR GREATER THAN THOSE SHOWN IN THE MARINO/WARE STUD-RITE CATALOG.

ABBREVIATIONS AND DESIGNATIONS:

Table with 2 columns: Abbreviation and Designation. Includes entries for ACI (AMERICAN CONCRETE INSTITUTE), AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), ARCH (ARCHITECT), ASTM (AMERICAN SOCIETY OF TESTING MATERIALS), AWS (AMERICAN WELDING SOCIETY), BM (BEAM), BOT (BOTTOM), BTWN (BETWEEN), B/ (BOTTOM OF), CLR (CLEAR), CMU (CONCRETE MASONRY UNIT), COL (COLUMN), CONC (CONCRETE), CL (CENTERLINE), DIAM. (DIAMETER (Ø)), DIM (DIMENSION), DWG (DRAWING), ELEV (ELEVATION), EOS (EDGE OF SLAB), EQ (EQUAL), EXP (EXPANSION), FDN (FOUNDATION), FT (FOOT OR FEET), FTG (FOOTING), GA (GAGE), GALV (GALVANIZED), HORIZ (HORIZONTAL), HT (HEIGHT), INT (INTERIOR), K (KIPS), L (STEEL ANGLE), LBS (POUNDS), LVL (LAMINATED VENEER LUMBER), MAX (MAXIMUM), MIN (MINIMUM), NDS (NATIONAL DESIGN SPECIFICATION), NO (NUMBER), NTS (NOT TO SCALE), OC (ON CENTER), PAF (POWDERACTUATED FASTENER), PERP (PERPENDICULAR), PLF (POUNDS PER LINEAR FOOT), PSF (POUNDS PER SQUARE FOOT), QTY (QUANTITY), SECT (SECTION), SIM (SIMILAR), T/ (TOP OF), UN (UNLESS OTHERWISE NOTED), VIF (VERIFY IN FIELD), WWF (WELDED WIRE FABRIC), Ø (DIAMETER).

LINTEL NOTES:

- 1 OPENINGS FOR WHICH NO SPECIFIC LINTELS OR LINTEL SIZES ARE INDICATED SHALL HAVE ONE ANGLE FOR EACH 4" OF MASONRY, OR AN APPROVED EQUIVALENT THEREOF AS FOLLOWS:
ANGLE SIZE MAX. M.O. BEARING EACH END
3 1/2" x 4" x 5/16" (LVL) 3'-0" 6"
3 1/2" x 5" x 5/16" (LVL) 5'-0" 6"
3 1/2" x 6" x 5/16" (LVL) 6'-0" 8"
3 1/2" x 6" x 3/8" (LVL) 8'-0" 8"
2 SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
3 WHEN OPENINGS OCCUR IN BEARING WALLS OR THE HEIGHT OF MASONRY ABOVE THE LINTEL IS LESS THAN THE WIDTH OR WHEN A CONTROL JOINT IS LOCATED WITHIN 16" OF THE JAMB OPENING AND DRAWINGS DO NOT OTHERWISE INDICATE A SPECIFIC LINTEL DESIGN, CONSULT WITH THE ENGINEER TO CONFIRM LINTEL REQUIREMENTS.
4 OPENINGS IN CMU OR MULTYVYTHE BRICK WALLS WHERE NO SPECIFIC LINTEL SIZES ARE INDICATED SHALL HAVE THE FOLLOWING SIZES:
MAX M.O. WALL THICKNESS LINTEL SIZE
9'-0" 8'-13" WB31 + 5/16" PLATE
12'-0" 8'-13" WB35 + 5/16" PLATE
PLATES INDICATED IN ABOVE LINTELS SHALL HAVE WIDTH "L" LESS THAN WALL THICKNESS
FOR ALL WALL BEARING BEAMS PROVIDE 7 1/2" x 5/8" x 7 1/2" BEARING PLATES ON 3/4" GROUT BED WITH (2) -5/8" Ø x 6" LONG AUTOMATICALLY WELDED HEADED ANCHOR STUDS AT 3" o.c. UNLESS OTHERWISE NOTED. FIELD WELD BOTTOM FLANGE OF BEAM TO BEARING PLATE WITH 1/4" WELD EACH SIDE OF FLANGE.
5 LINTELS SUPPORTING EXTERIOR MASONRY SHALL BE HOT-DIPPED GALVANIZED.



PRESTON ENGINEERING, PLLC
1 AVIAN DRIVE
EAST GREENBUSH, NY 12061
(518) 396-9080
www.preston-eng.com



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PROJECT :

MARLBORO FREE
LIBRARY ADDITION
+ RENOVATIONS

MARLBORO FREE
LIBRARY
1251 ROUTE 9W
MARLBORO, NY

ISSUED FOR
BIDDING 5/20/25



Table with 3 columns: NO., REVISION, DATE. Contains multiple empty rows for revision tracking.

SHEET TITLE:

GENERAL NOTES
AND
SPECIFICATIONS

SCALE:

NO SCALE

DATE:

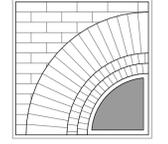
MAY 20, 2025

SHEET NO.

S100

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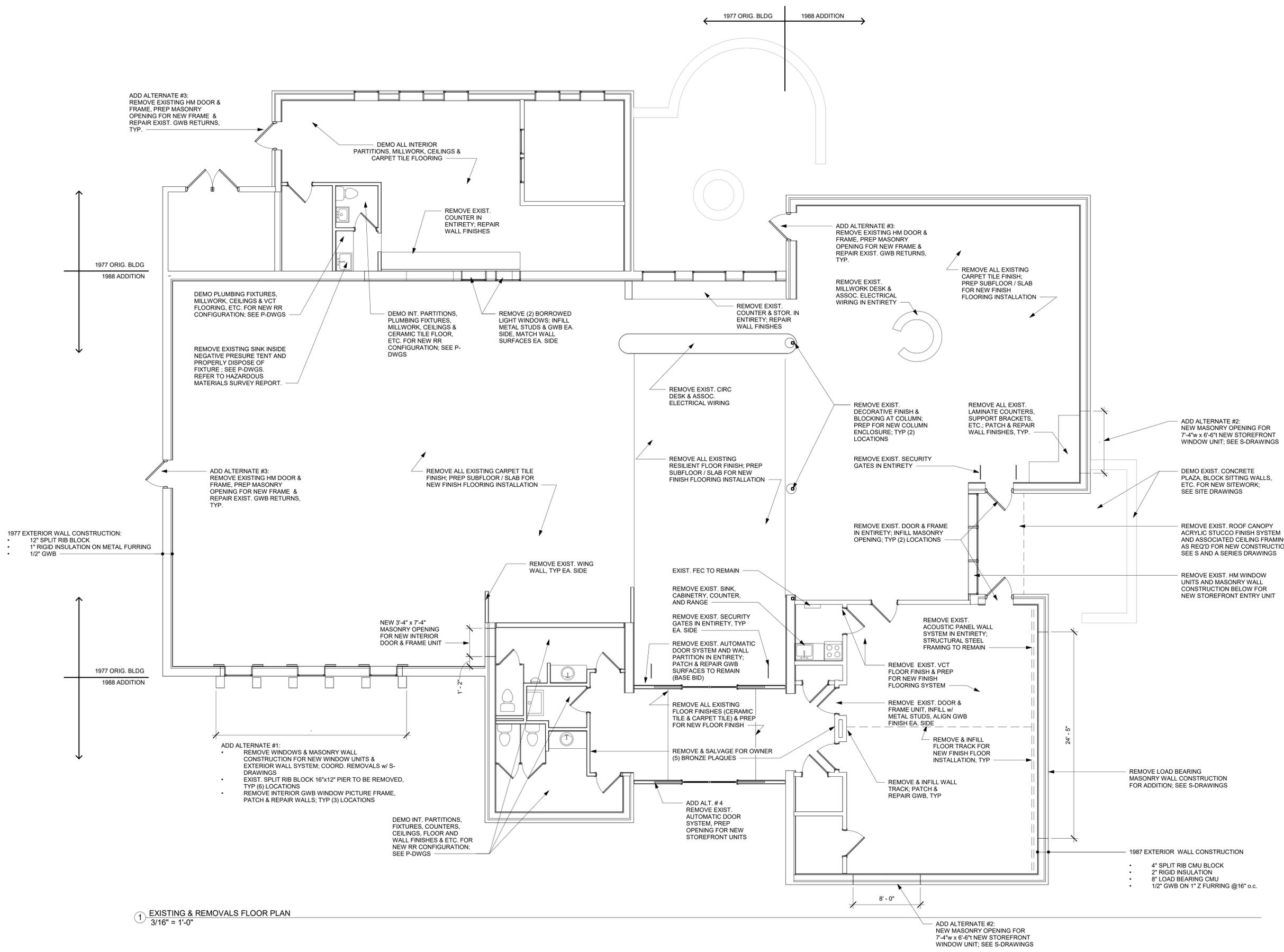
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JOB NO.: 23-48-08
DATE: 11/15/23

EXIST. CONDITIONS & REMOVALS PLAN

TITLE

AR100

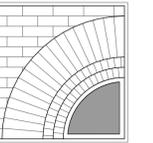
DWG. NO.



1 EXISTING & REMOVALS FLOOR PLAN
3/16" = 1'-0"

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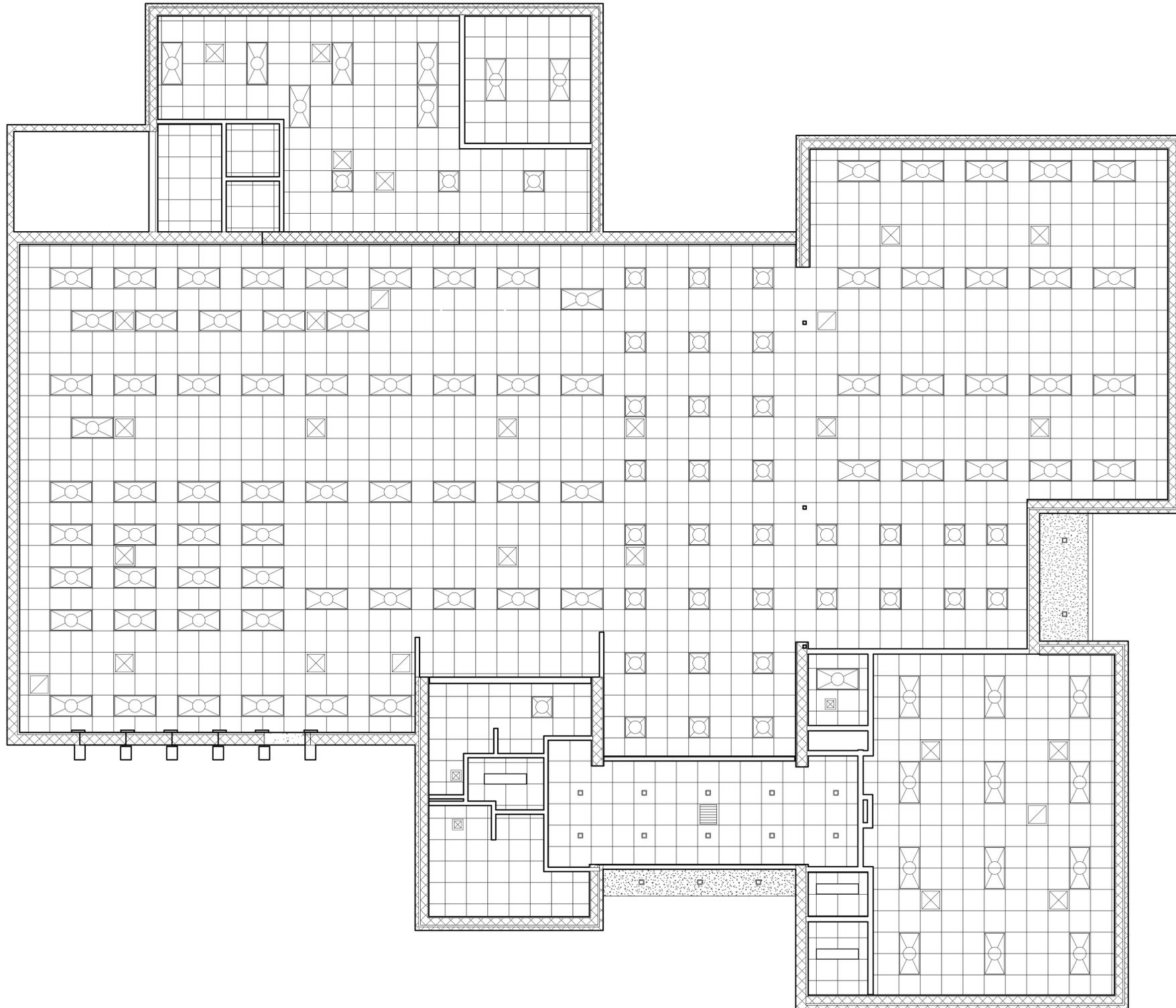
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DATE: 03/31/25

**EXIST.
REFLECTED
CEILING PLAN
& REMOVALS**

TITLE

AR101

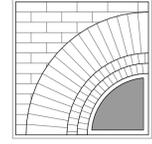
DWG. NO.



- GENERAL REMOVAL NOTES**
- 1 ALL FINISH CEILING SYSTEMS TO BE REMOVED IN ENTIRETY; COORD. w/ M & E DRAWINGS
 - 2 ALL MECHANICAL SYSTEM DIFFUSERS AND ETC. TO BE REMOVED; COORD. w/ M DRAWINGS
 - 3 ALL LIGHT FIXTURES TO BE REMOVED; COORD. w/ M DRAWINGS
 - 4 REFER TO E DRAWINGS FOR FIRE ALARM, SECURITY SYSTEM, AND OTHER ELECTRICAL REMOVALS WORK
 - 5 EXACT LOCATIONS AND QUANTITIES SHOULD BE FIELD VERIFY FOR ALL SYSTEMS, DEVICES, EQUIPMENT, ETC. NOTED FOR REMOVAL

1 EXIST CONDITIONS & REMOVALS
REFLECTED CEILING PLAN
3/16" = 1'-0"

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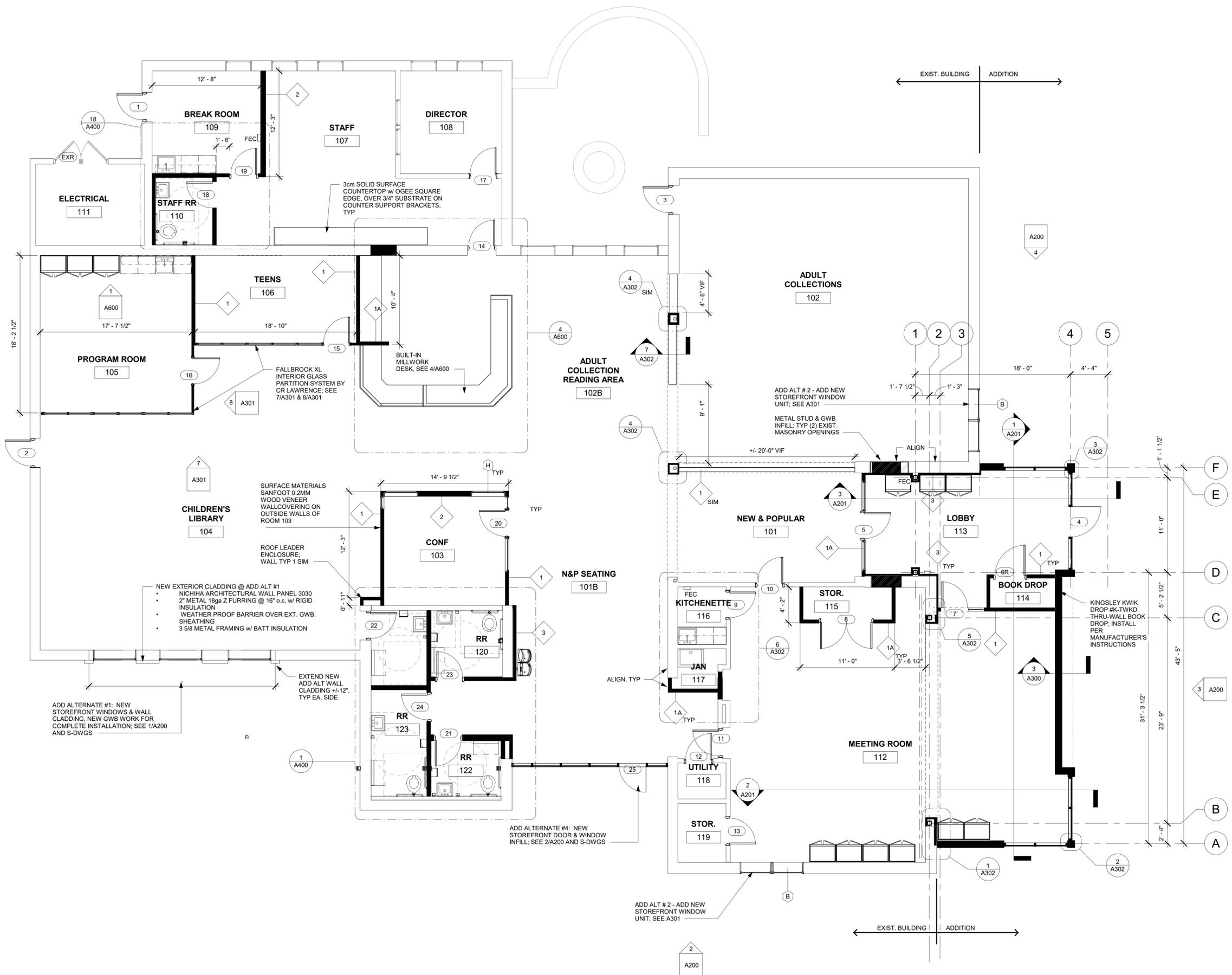
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 JOB NO.: 23-48-06
 DATE: 08/28/23

OVERALL FLOOR PLAN

TITLE

A100
 DWG. NO.

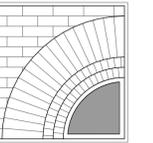
DRAWING SYMBOL LEGEND	
101	ROOM NUMBER
01	DOOR & FRAME NUMBER (SEE SCHEDULE, DWG A301) R = 1 HOUR RATED DOOR ASSEMBLY
C1	WINDOW TYPE, SEE SHEET A301
A	WALL TYPE (SEE THIS DWG.)
2 1 A00 3 4	INTERIOR ELEVATION ELEVATION REF. NO. 1
F.E.	SEMI-RECESSED FIRE EXTINGUISHER CABINET
WALL TYPES	
TYPE-1	5/8" GYPSUM BOARD 3 5/8" MTL. STUD @ 16" O.C. 5/8" GYPSUM BOARD ACOUSTIC INSULATION (NO INSULATION @ 1A)
TYPE-2	5/8" GYPSUM BOARD OVER 3 5/8" ON FLAT @ 24" o.c. EXIST. CMU WALL CONSTRUCTION, TYP.
TYPE-3	HP P-LAM WALL PANEL SYSTEM 5/8" M.R. GYPSUM BOARD 3 5/8" MTL. STUD @ 16" O.C. ACOUSTIC INSULATION
TYPE-4B	HP P-LAM WALL PANEL SYSTEM 5/8" M.R. GYPSUM BOARD EXIST. WALL CONSTRUCTION
TYPE-4C	HP P-LAM WALL PANEL SYSTEM 5/8" M.R. GYPSUM BOARD 3 5/8" MTL. STUD @ 16" O.C. (6" @ SIM. LOCATIONS) 5/8" GYPSUM BOARD ACOUSTIC INSULATION



1 OVERALL FLOOR PLAN
 3/16" = 1'-0"

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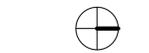
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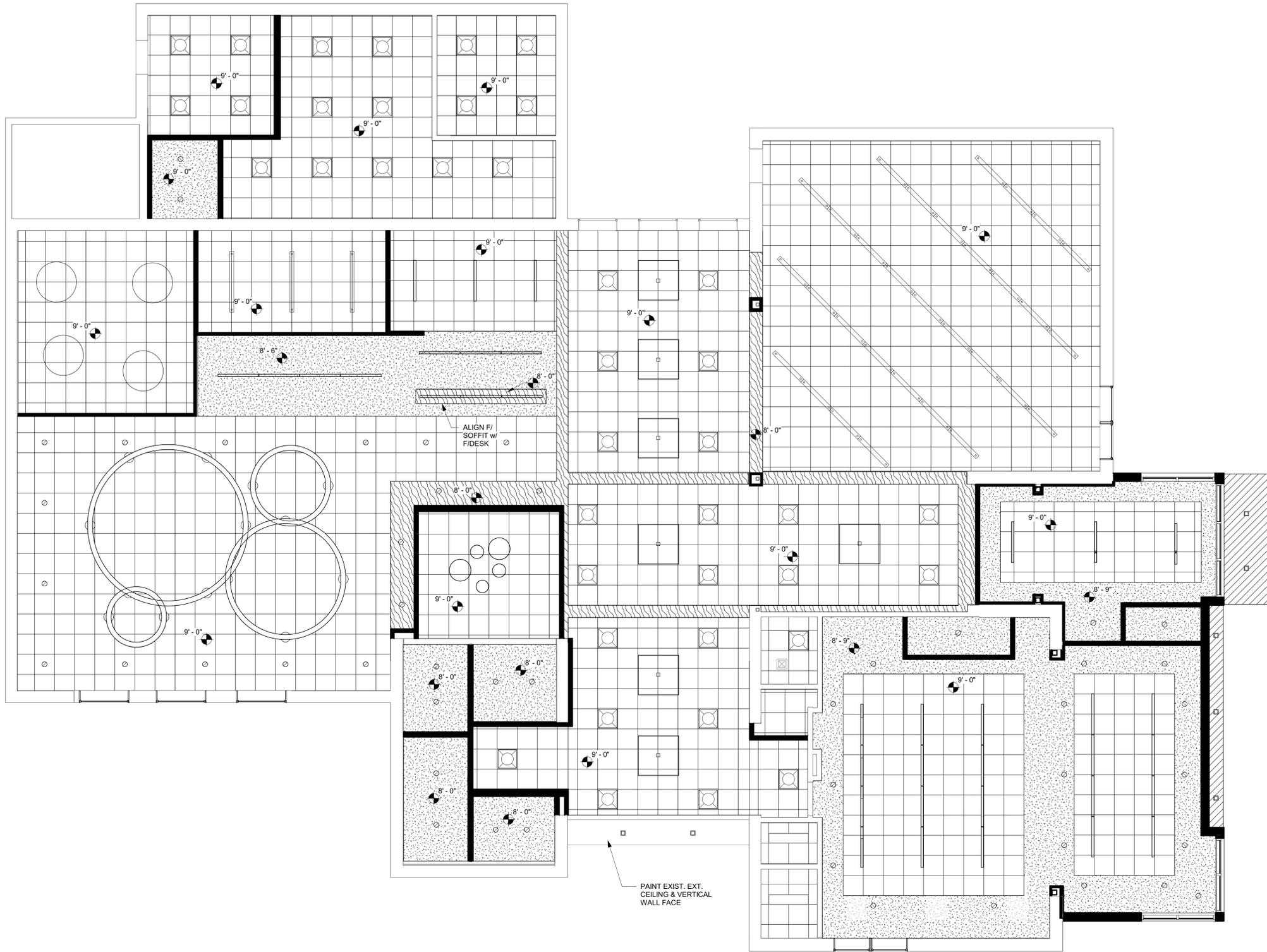
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JOB NO.: 23-48-06
DATE: 11/08/23

**REFLECTED
CEILING PLAN**

TITLE

A101

DWG. NO.



REFLECTED CEILING PLAN LEGEND

- NEW SUSPENDED ACOUSTIC CEILING 2x2 GRID
- GWB SOFFIT
- GWB SOFFIT w/ SURFACE MATERIALS SANFOOT 0.2MM WOOD VENEER WALLCOVERING
- EXTERIOR SOFFIT

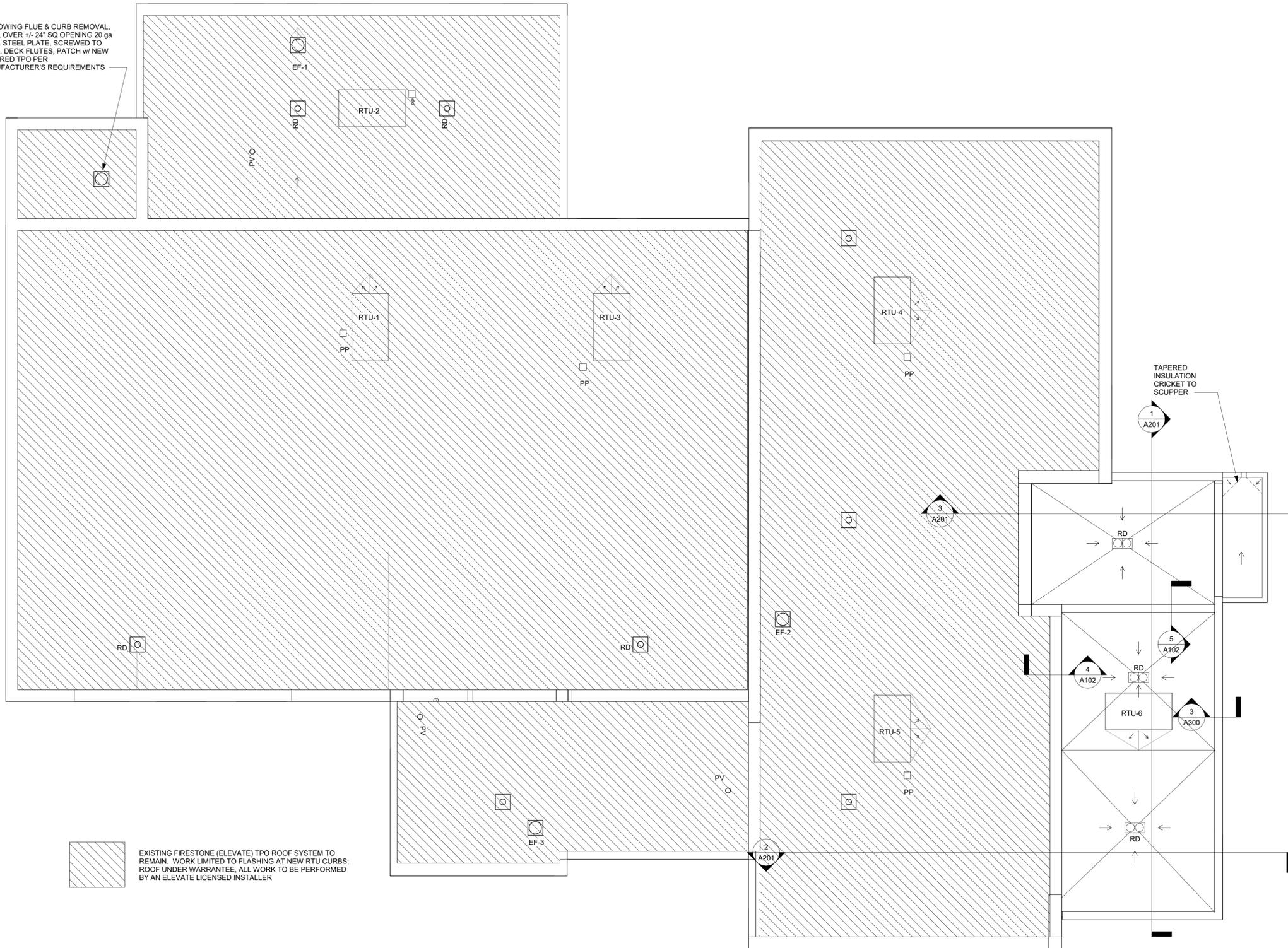
- 24" x 24" RECESSED FIXTURE, FOR TYPE SEE E-DWG'S.
- SUSPENDED LINEAR FIXTURE, FOR TYPE & SIZE SEE E-DWG'S.
- RECESSED FIXTURE, FOR TYPE SEE E-DWG'S.
- EXTERIOR RECESSED FIXTURE, FOR TYPE SEE E-DWG'S.
- SUSPENDED FIXTURE, FOR TYPE SEE E-DWG'S.
- RECESSED LED STRIP LIGHT, FOR TYPE SEE E-DWG'S.
- PENDANT FIXTURE, FOR TYPE & SIZE SEE E-DWG'S.
- SURFACE MTD. ROUND FIXTURE, FOR TYPE & SIZE SEE E-DWG'S.
- EXHAUST FAN, SEE M-DWG'S.
- SUPPLY DIFFUSER, SEE M-DWG'S.
- RETURN REGISTER, SEE M-DWG'S.
- SMOKE (OR HEAT) DETECTOR, SEE E-DWG'S.
- CARBON MONOXIDE SENSOR, SEE E-DWG'S.
- FIRE ALARM HORN/STROBE, SEE E-DWG'S.
- OCCUPANCY SENSOR, SEE E-DWG'S.
- LED EMERGENCY LIGHT SEE E-DWG'S.
- LED EXIT SIGN, SEE E-DWG'S.

REFER TO E-DWG'S FOR DETAILED DESCRIPTIONS, LOCATIONS, MOUNTING HEIGHTS, ETC.

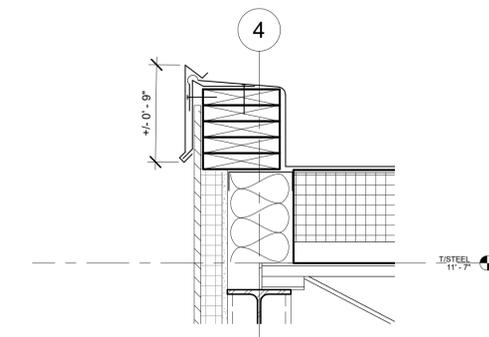
1 REFLECTED CEILING PLAN
3/16" = 1'-0"

PAINT EXIST. EXT.
CEILING & VERTICAL
WALL FACE

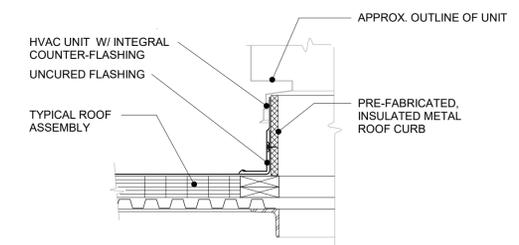
FOLLOWING FLUE & CURB REMOVAL, INFILL OVER +/- 24" SQ OPENING 20 ga GALV. STEEL PLATE, SCREWED TO EXIST. DECK FLUTES, PATCH w/ NEW ADHERED TPO PER MANUFACTURER'S REQUIREMENTS



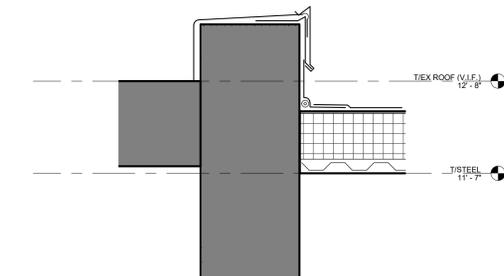
1 OVERALL ROOF PLAN
 3/16" = 1'-0"



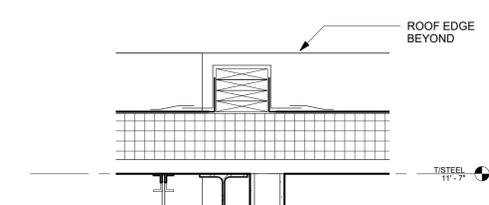
2 ROOF EDGE DETAIL
 1 1/2" = 1'-0"



3 ROOF CURB DETAIL
 1" = 1'-0"



4 EXIST. ROOF TRANSITION DETAIL
 1" = 1'-0"

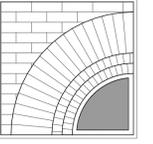


5 ROOF TRANSITION DETAIL
 1" = 1'-0"

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 SCALE: As indicated
 JOB NO.: 23-48-06
 DATE: 03/06/25

**ROOF PLAN &
 DETAILS**

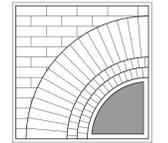
TITLE

A102

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**FLOOR FINISH
PLAN**

TITLE

A103

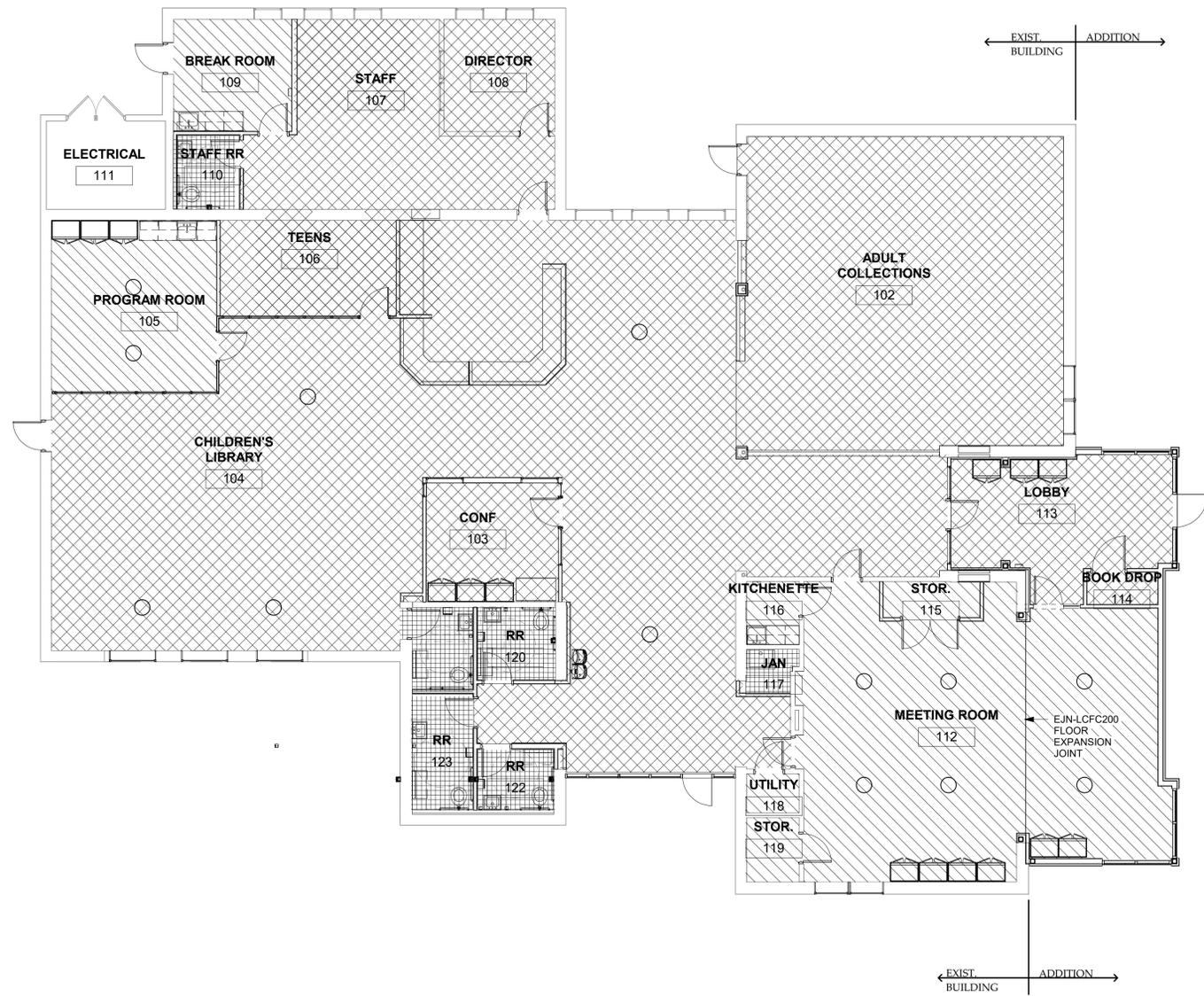
DWG. NO.

ROOM NO	ROOM NAME	FLOOR	BASE	WALLS								PAINT	CEILING		REMARKS	
				NORTH		EAST		SOUTH		WEST			WALLS	TYPE		FIN.
				MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.					
100	CIRC DESK	CPT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT			GWB/A CT	PT/FF	
101	NEW & POPULAR	CPT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT					
101B	N&P SEATING	CPT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT					
102	ADULT COLLECTIONS	CPT	RB	EX	PT	EX/GWB	PT	GWB	PT	EX	PT			ACT	FF	
102B	ADULT COLLECTION READING AREA	CPT	RB	EX/GWB	PT	GWB	PT	GWB	PT	EX	PT					
103	CONF	CPT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT			ACT	FF	
104	CHILDREN'S LIBRARY	CPT	RB	GWB	PT	EX/GWB	PT	EX	PT	GWB	PT			ACT	FF	
105	PROGRAM ROOM	LVT	RB	GWB	PT	GWB	PT	EX	PT	GWB	PT			ACT	FF	
106	TEENS	CPT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT			ACT	FF	
107	STAFF	CPT	RB	EX	PT	EX	PT	EX/GWB	PT	EX	PT			ACT	FF	
108	DIRECTOR	CPT	RB	EX	PT	EX	PT	EX	PT	EX	PT			ACT	FF	
109	BREAK ROOM	LVT	RB	GWB	PT	GWB	PT	EX	PT	EX	PT			ACT	FF	
110	STAFF RR	CT	RB	MR/PLWC	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF			GWB	PT	
111	ELECTRICAL	CONC	RB	EX	--	EX	--	EX	--	EX	--			EX		
112	MEETING ROOM	LVT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT			GWB/A CT	PT/FF	
113	LOBBY	CPT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT			GWB/A CT	PT/FF	
114	BOOK DROP	CPT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT			GWB	PT	
115	STOR.	LVT	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT					
116	KITCHENETTE	LVT	RB	EX	PT	EX	PT	EX	PT	EX	PT			EX	PT	
117	JAN	CT	RB	EX/GWB	PT	GWB	PT	EX/GWB	PT					EX/GW B	PT	
118	UTILITY	LVT	RB	EX	PT	EX	PT	EX	PT	EX	PT			EX		
119	STOR.	LVT	RB	EX	PT	EX	PT	EX	PT	EX	PT			EX	--	
120	RR	CT	RB	MR/PLWC	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF			GWB	PT	
121	RR	CT	RB	MR/PLWC	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF			GWB	PT	
122	RR	CT	RB	MR/PLWC	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF			GWB	PT	
123	RR	CT	RB	MR/PLWC	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF	MR/PLW C	PT/FF			GWB	PT	

- NOTES:**
- ALL FLOORING PATTERNS SHALL BE CENTERED IN ROOM UNLESS NOTED OTHERWISE. CONFIRM PATTERNS WITH ARCHITECT PRIOR TO INSTALLATION.
 - SEE PLUMBING DRAWINGS FOR FLOOR DRAIN AND CLEAN-OUT INFORMATION.
 - SEE ELECTRICAL DRAWINGS FOR FLOOR OUTLET INFORMATION.
 - SEE SITE AND STRUCTURAL DRAWINGS FOR EXTERIOR CONCRETE SLAB DETAILS.
 - ALL RUNNING TRIMS TO RECEIVE PAINT COLOR P1.
 - ALL HOLLOW METAL FRAMES TO RECEIVE PAINT COLOR P2.
 - ALL FINISHES TO BE CLASS A.
 - ALL CARPET TO BE CLASS 1.
 - ALL EXISTING WOOD TRIMS TO BE AND RECEIVE NEW TRIM PAINT COLOR 3.
 - EXISTING MAIN LEVEL CEILING TO RECEIVE PAINT COLOR 4; UPPER LEVEL EXPOSED CEILING TO RECEIVE PAINT COLOR 5 & ALL EXPOSED TRUSSES TO RECEIVE PAINT COLOR 6 IN ROOM 209 AND PAINT COLOR 7 IN ALL OTHER LOCATIONS.
 - PAINT ALL EXPOSED PLUMBING PIPING (INSULATED AND NON-INSULATED), EXPOSED FIRE PROTECTION PIPING, AND ELECTRICAL CONDUITS WITH CEILING; PAINT EXPOSED DUCTWORK - 1 ACCENT PAINT COLOR FOR SUPPLY AND 1 ACCENT PAINT COLOR FOR RETURN.

KEY:

ACT	ACOUSTIC CEILING TILE	FF	FACTORY FINISH
CPT	CARPET TILE (SEE SPECIFICATION FOR PRODUCT SELECTION)	RB	RESILIENT BASE
MR	MOISTURE RESISTANT GWB	GWB or G	GYPSUM WALL BOARD
CT	CERAMIC TILE (SEE SPECIFICATION FOR PRODUCT SELECTION)	VWC	VINYL WALL COVERING
CONC or C	CONCRETE	WD	WOOD
PT or P	PAINTED	LVT	LUXURY VINYL TILE
EX	EXISTING	PLWC	PLASTIC LAMINATE WALL COVERING - WET WALL PRO BY WILSONART



1 FINISH FLOOR PLAN
1/8" = 1'-0"

FLOOR FINISH LEGEND

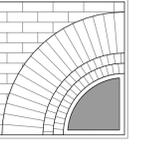
	CARPET TILE; SEE SPECIFICATION FOR STYLES & LOCATIONS
	CERAMIC TILE; SEE SPECIFICATION FOR STYLES & LOCATIONS
	LUXURY VINYL TILE; SEE SPECIFICATION FOR PRODUCT INFO
	EXIST. FLOOR TO REMAIN

NOTES:

- ELECTRICAL FLOOR BOXES, NTS

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Marlboro, NY 12542

PROJECT

CONSULTANT

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STAMP

CALLED NORTH

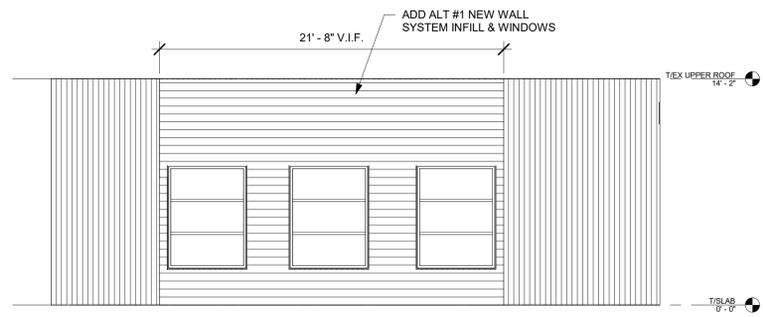
DWN. BY: Author
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JOB NO.: 23-48-08
DATE: 11/08/23

ELEVATIONS

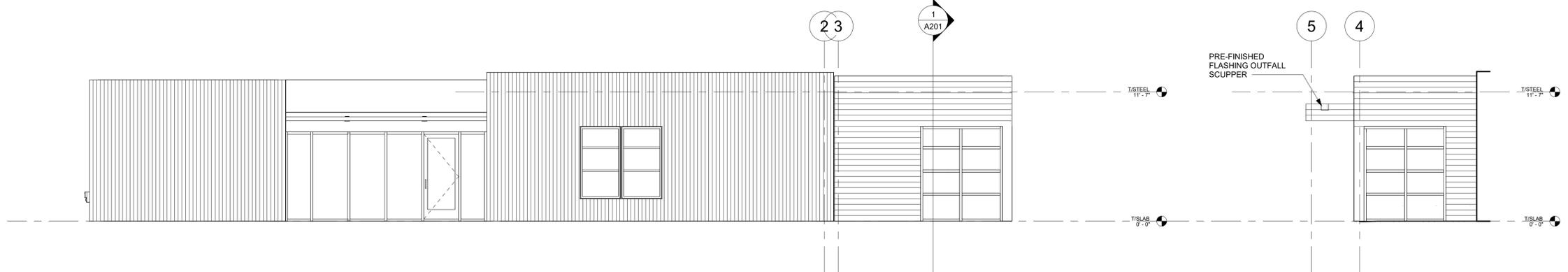
TITLE

A200

DWG. NO.

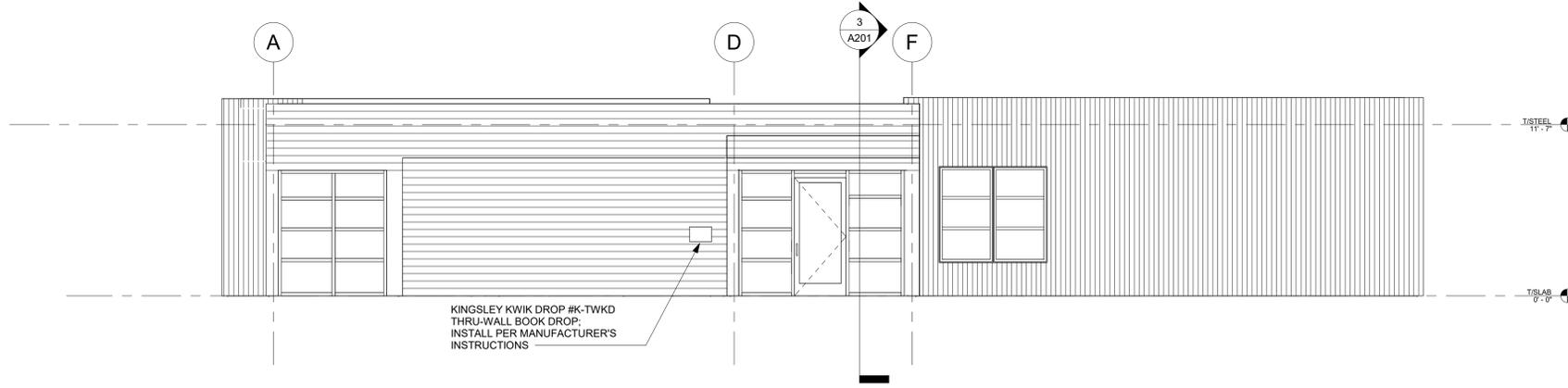


1 PARTIAL EAST ELEVATION - ADD
ALTERNATE #1
3/16" = 1'-0"



2 EAST ELEVATION
3/16" = 1'-0"

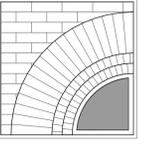
4 PARTIAL WEST ELEVATION
3/16" = 1'-0"



3 NORTH ELEVATION
3/16" = 1'-0"

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CALLLED NORTH

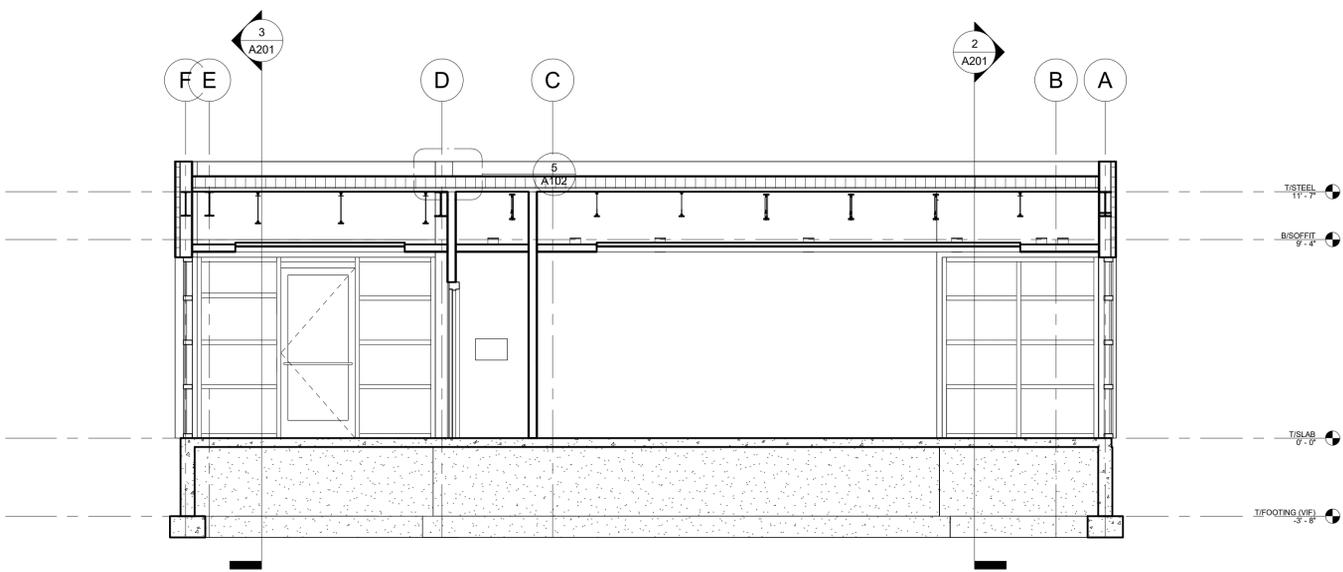
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JOB NO.: 23-48-08
DATE: 11/08/23

SECTIONS

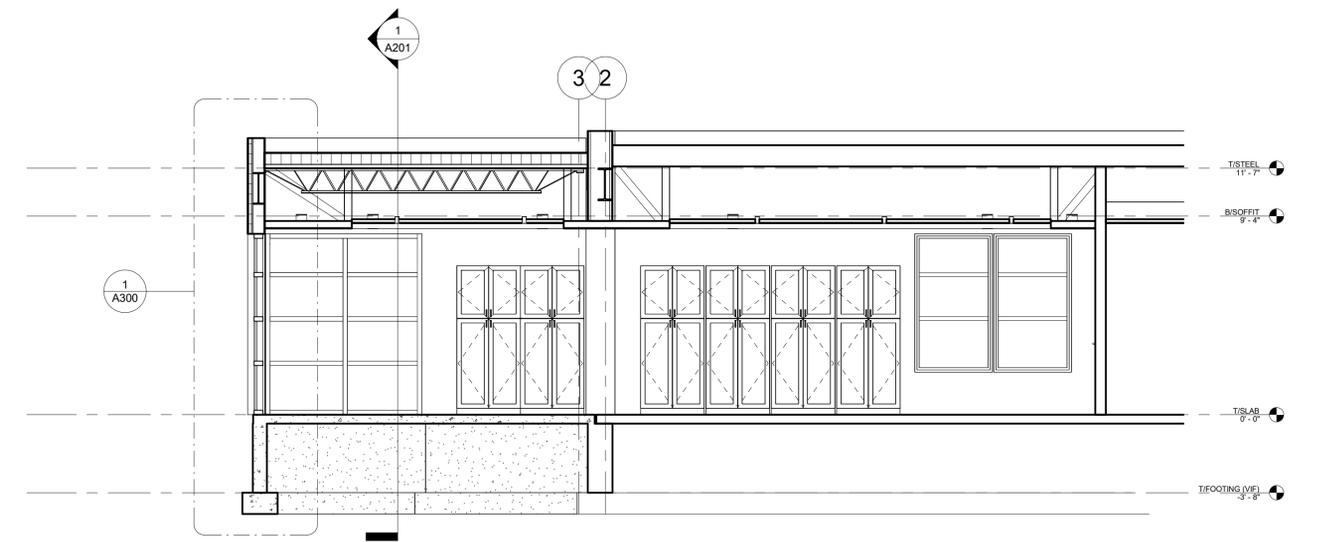
TITLE

A201

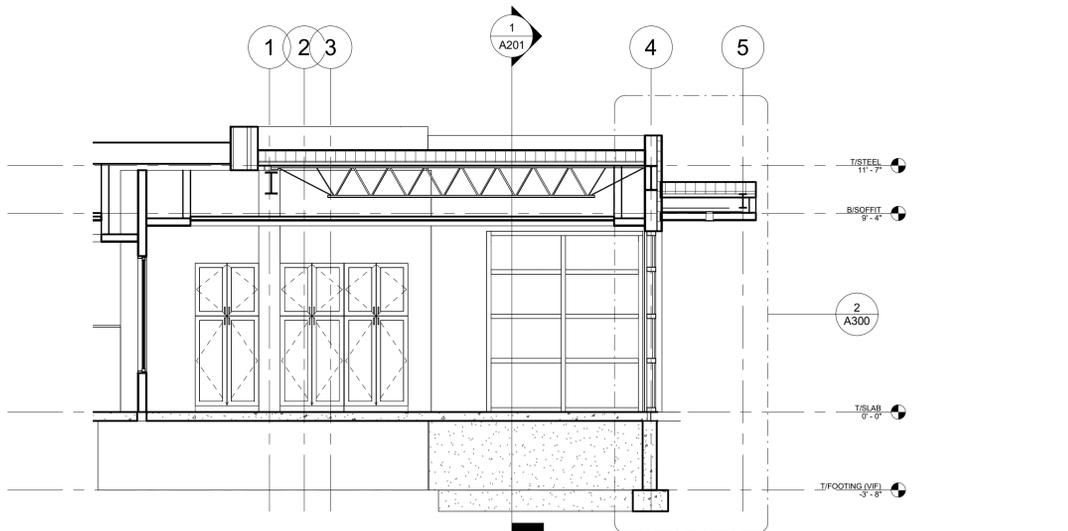
DWG. NO.



① SECTION @ ADDITION
1/4" = 1'-0"



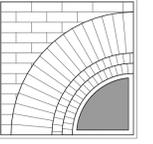
② SECTION @ MEETING ROOM
1/4" = 1'-0"



③ SECTION AT LOBBY
1/4" = 1'-0"

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STAMP

CALLLED NORTH

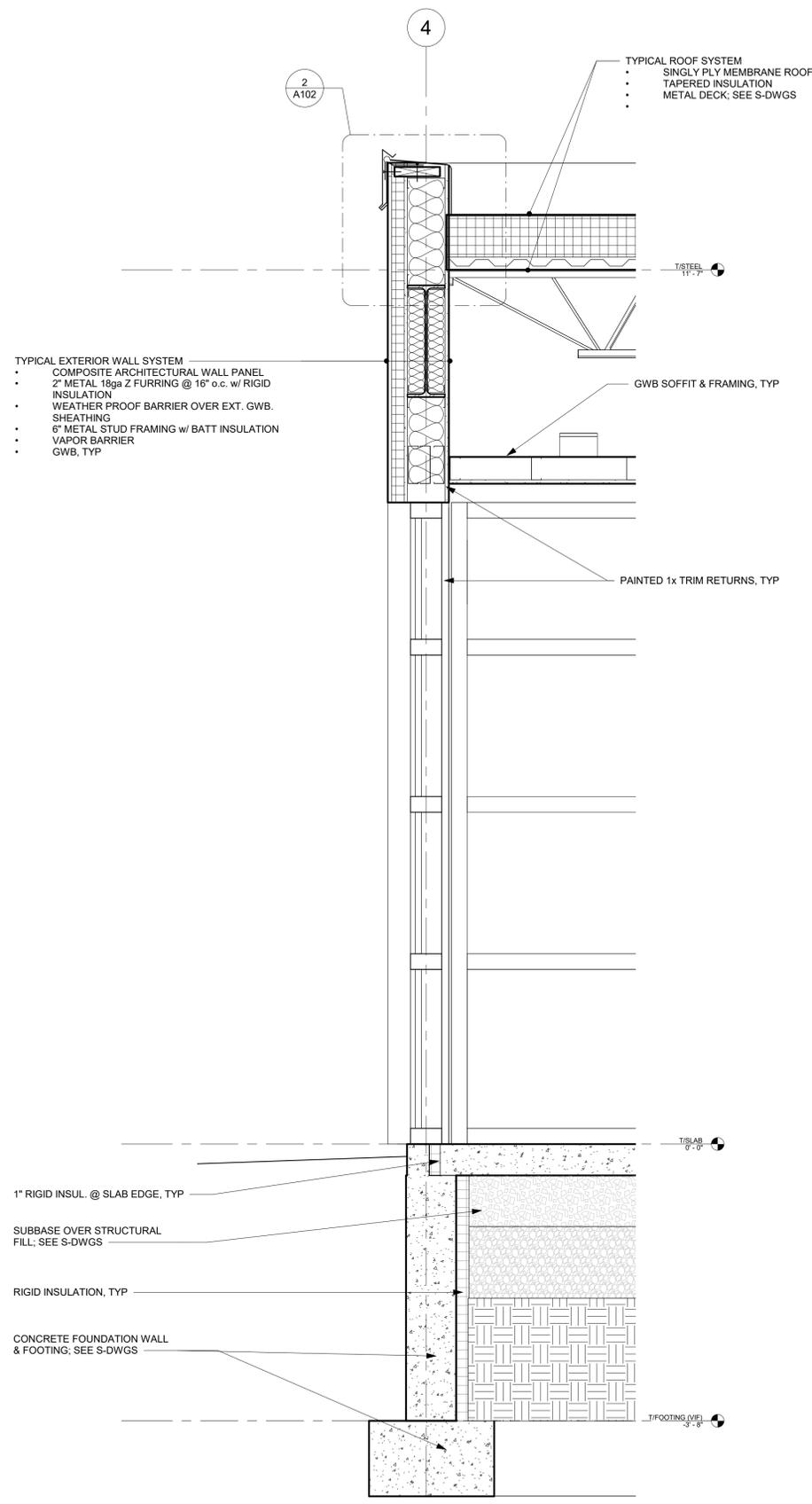
DWN. BY: Author
SCALE: 1" = 1'-0"
JOB NO.: 23-48-06
DATE: 03/07/25

**WALL
SECTIONS**

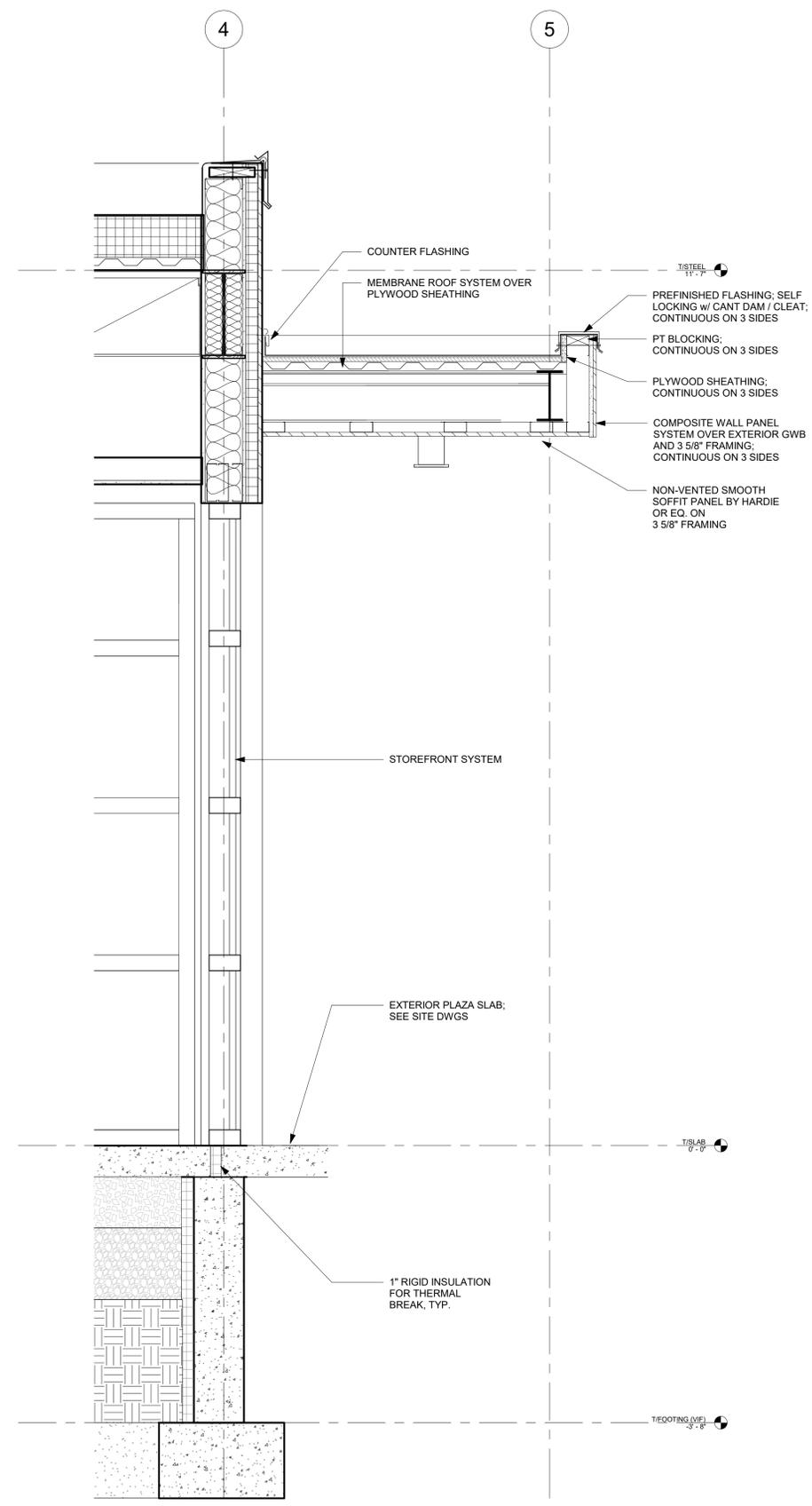
TITLE

A300

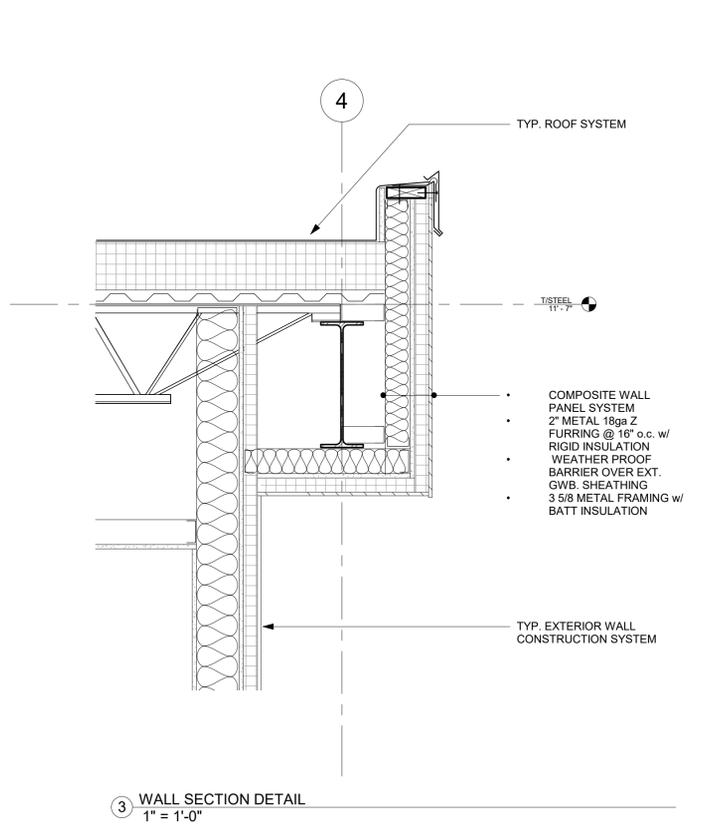
DWG. NO.



① WALL SECTION
1" = 1'-0"

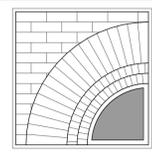


WALL SECTION AT STOREFRONT
ENTRANCE
② 1" = 1'-0"



③ WALL SECTION DETAIL
1" = 1'-0"

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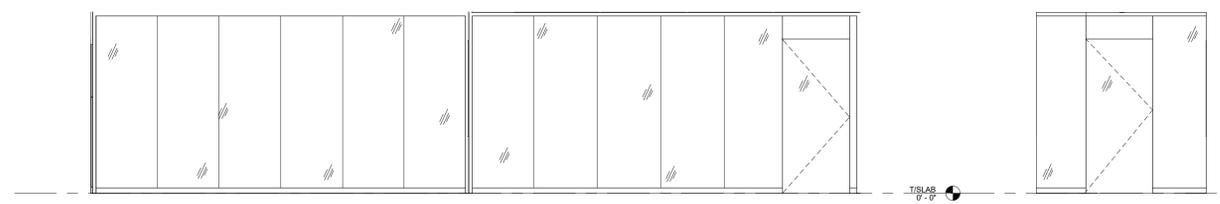
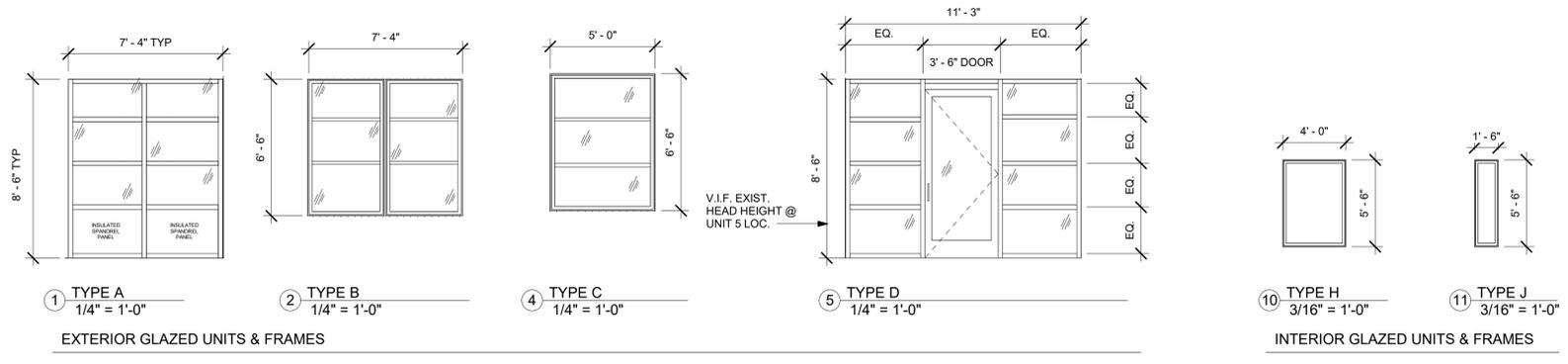
CALLED NORTH

DWN. BY: Author
 SCALE: As Indicated
 JOB NO.: 23-46-06
 DATE: 03/31/25

**WINDOW &
DOOR
DETAILS**

TITLE

A301
 DWG. NO.

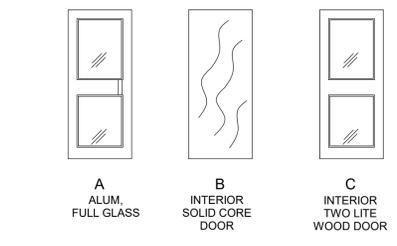


7 PROGRAM ROOM & TEEN ROOM EAST WALL
 1/4" = 1'-0"

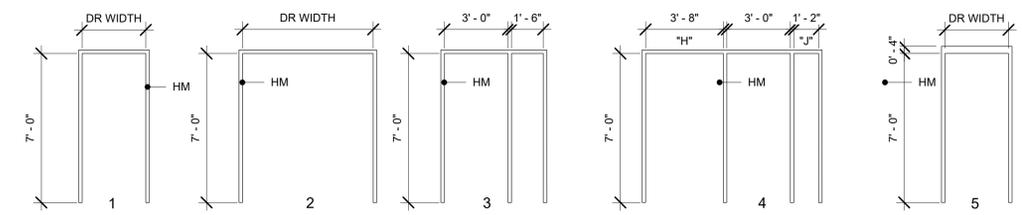
8 PROGRAM ROOM NORTH WALL
 1/4" = 1'-0"

PROVIDE LAMINATED GLAZING, HARDWARE, & ALL COMPONENTS FOR COMPLETE SYSTEM INSTALLATION

INTERIOR GLAZED UNITS & FRAMES



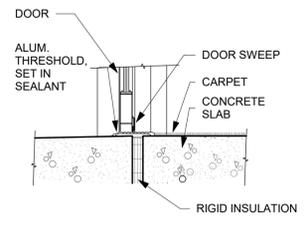
DOOR TYPES
 N.T.S. NOTE: ALL GLASS IN DOORS SHALL BE TEMPERED.



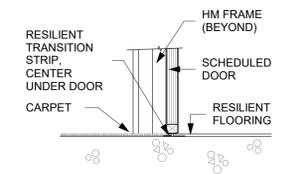
ALUM. @ SIM LOCATIONS
 FRAME TYPES

6 DOOR & FRAME TYPES
 1/4" = 1'-0"

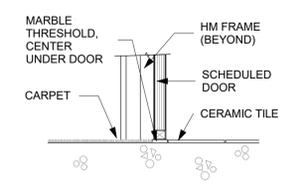
Door Schedule										
Mark	ADJ ROOM	ELEV TYPE	Width	Height	DOOR MATERIAL	Frame Type	Frame Material	JAMB	SILL	Comments
1	STAFF BREAKROOM	A	3'-0"	8'-0"	ALUM	1 SIM	ALUM	EX	1 SIM	
2	CHILDREN'S LIBRARY	A	3'-0"	7'-0"	ALUM	1 SIM	ALUM	EX	1	
3	ADULT COLLECTIONS	A	3'-0"	8'-0"	ALUM	1 SIM	ALUM	EX	1	
4	LOBBY	A	3'-6"	8'-0"	ALUM	1 SIM	ALUM	2	1	
5	LOBBY	A	3'-0"	7'-0"	ALUM	D	ALUM	2	2	
6R	BOOK DROP	B	3'-6"	7'-0"	WD	D	HM	1 SIM	2	1 HR RATED UNIT
7	MEETING ROOM C	3	3'-0"	7'-0"	WD	3	HM	1 SIM	3	
8	STORAGE	B	6'-0"	7'-0"	WD	2	HM	1 SIM	2 SIM	
9	KITCHENETTE	B	3'-0"	7'-0"	WD	EX	HM	EX	2 SIM	RE-USE EXIST. HM FRAME
10	MEETING ROOM C	3	3'-0"	7'-0"	WD	EX	HM	EX	3	RE-USE EXIST. HM FRAME
11	MEETING ROOM C	3	3'-0"	8'-0"	WD	EX	HM	EX	3	RE-USE EXIST. HM FRAME
12	UTILITY	B	3'-0"	7'-0"	WD	EX	HM	EX	3	RE-USE EXIST. HM FRAME
13	STOR.	B	3'-0"	7'-0"	WD	EX	HM	EX	2 SIM	RE-USE EXIST. HM FRAME
14	STAFF WORKROOM	C	3'-0"	7'-0"	WD	1	HM	EX	2	RE-USE EXIST. HM FRAME
15	TEENS	--	3'-0"	7'-0"	FALBROOK SYS	FALBROOK SYS	N/A	2		COORD. KEYING
16	PROGRAM ROOM	--	3'-0"	7'-0"	FALBROOK SYS	FALBROOK SYS	N/A	3		COORD. KEYING
17	DIRECTOR	C	3'-0"	7'-0"	WD	EX	HM	EX	2	RE-USE EXIST. HM FRAME
18	STAFF RESTROOM	B	3'-0"	7'-0"	WD	1	HM	2	5	
19	BREAKROOM	C	3'-0"	7'-0"	WD	1	HM	2	3	
20	CONFERENCE	C	3'-0"	7'-0"	WD	K	HM	2	2	
21	RESTROOM	B	3'-0"	7'-0"	WD	1	HM	2	5	
22	RESTROOM	B	3'-0"	7'-0"	WD	1	HM	2	5	
23	RESTROOM	B	3'-0"	7'-0"	WD	1	HM	2	5	
24	RESTROOM	B	3'-0"	7'-0"	WD	1	HM	2	5	
25	N&P SEATING	A	3'-1 1/2"	7'-7"	ALUM	1 SIM	ALUM	EX	1	
27	JANITOR CLOSET	B	3'-0"	7'-0"	WD	1	HM	2	5	
EXR	ELECTRICAL	EX	3'-0"	7'-0"	N/A	N/A	N/A	N/A	N/A	



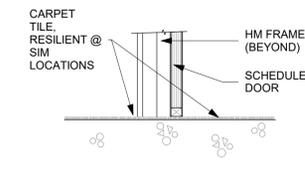
1 SILL DETAIL



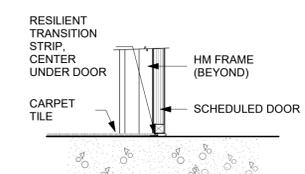
3 SILL DETAIL



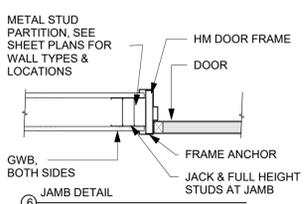
5 SILL DETAIL



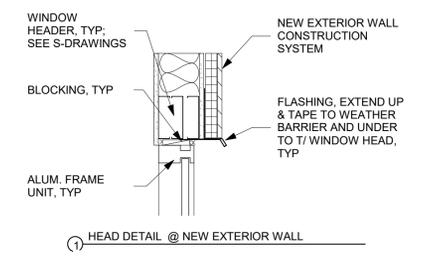
2 SILL DETAIL



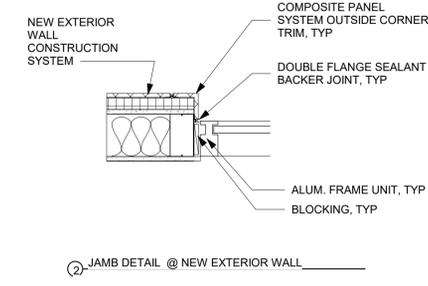
4 SILL DETAIL



9 DOOR DETAILS
 1" = 1'-0"

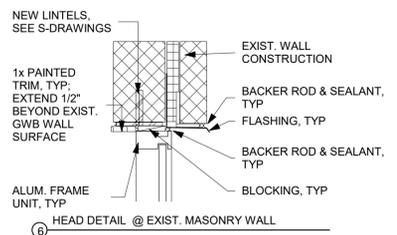


1 HEAD DETAIL @ NEW EXTERIOR WALL

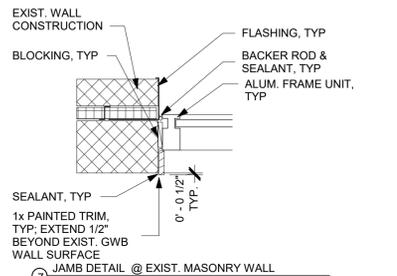


2 JAMB DETAIL @ NEW EXTERIOR WALL

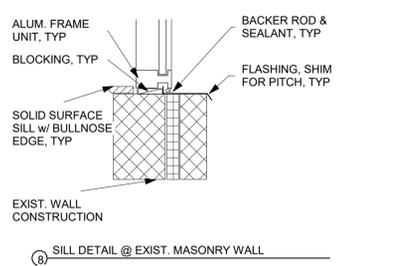
3 WINDOW DETAILS
 1" = 1'-0"



6 HEAD DETAIL @ EXIST. MASONRY WALL



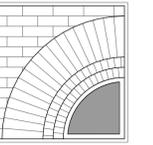
7 JAMB DETAIL @ EXIST. MASONRY WALL



8 SILL DETAIL @ EXIST. MASONRY WALL

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CALLLED NORTH

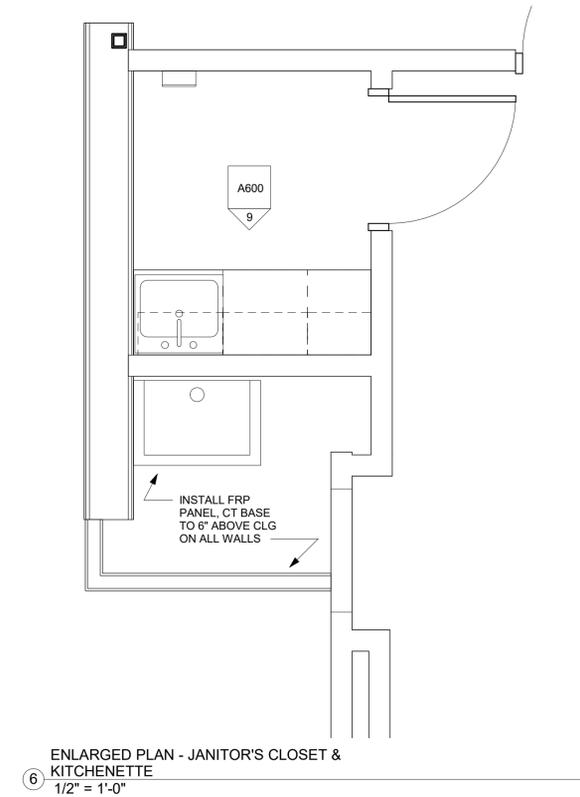
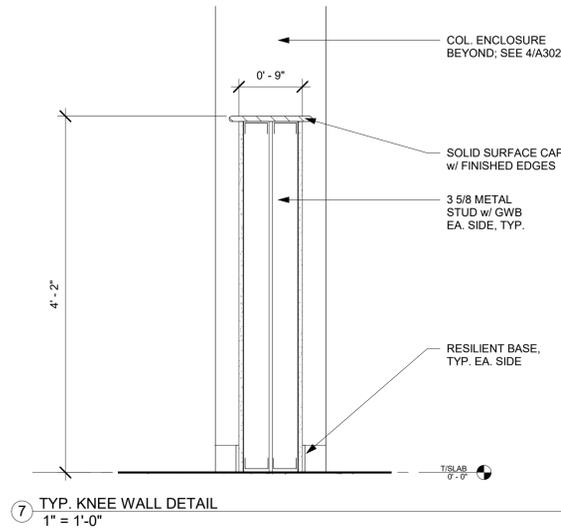
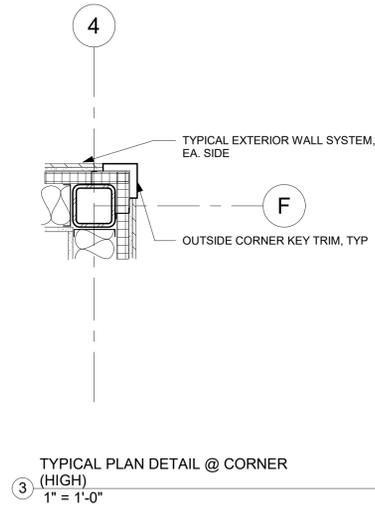
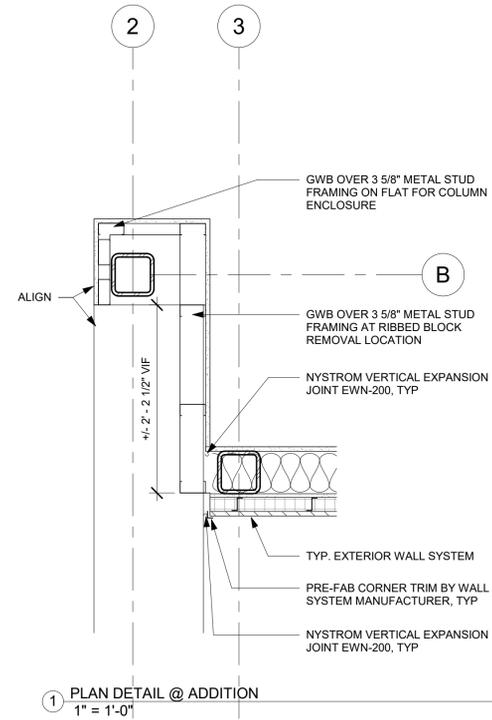
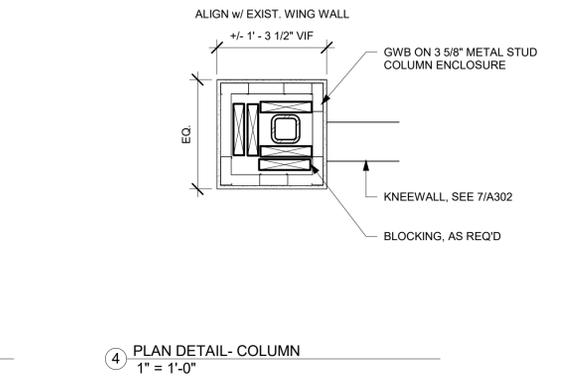
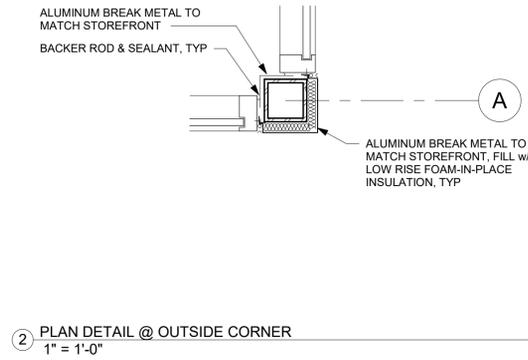
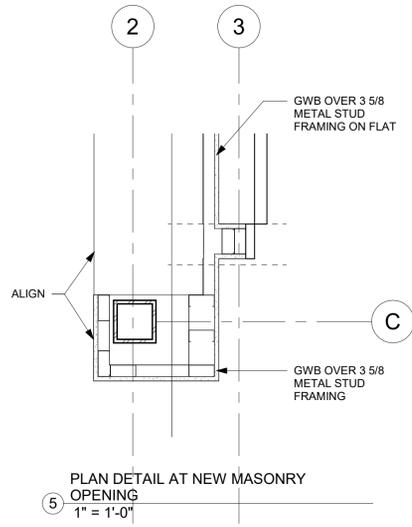
DWN. BY: Author
SCALE: As indicated
JOB NO.: 23-48-06
DATE: 03/31/25

DETAILS

TITLE

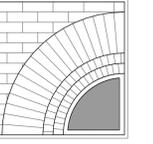
A302

DWG. NO.



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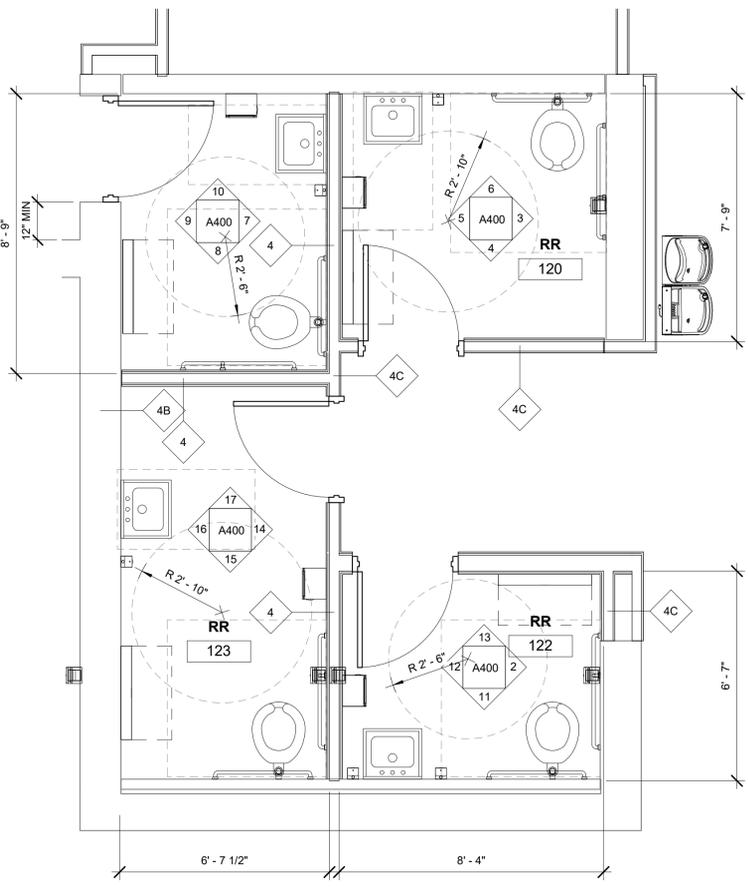
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SCALE: As indicated
JOB NO.: 23-48-06
DATE: 02/03/25

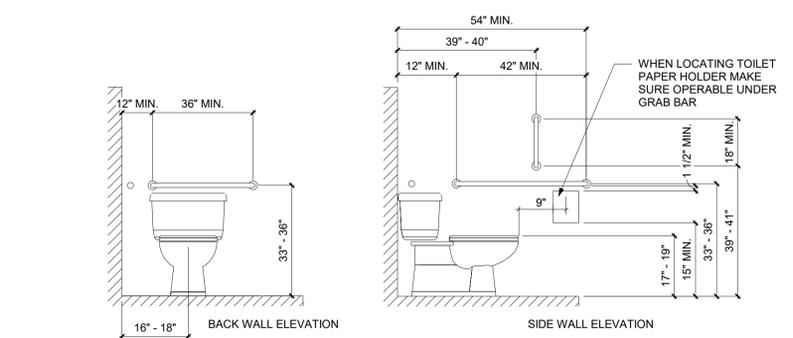
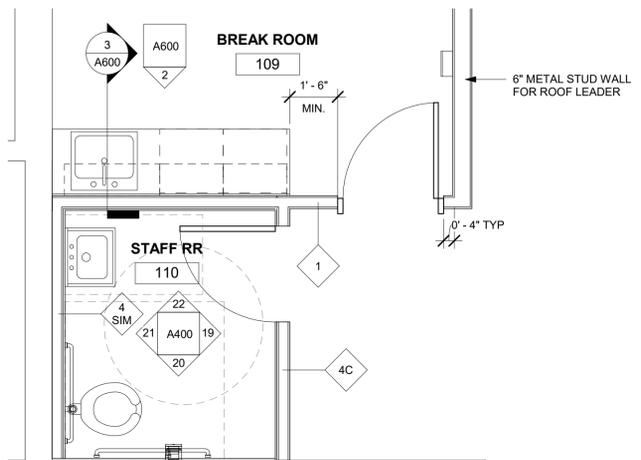
**RESTROOM
PLANS &
ELEVATIONS**

TITLE

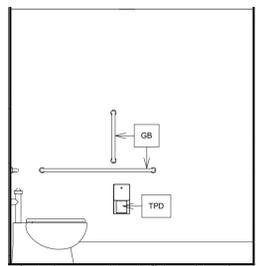
A400
DWG. NO.



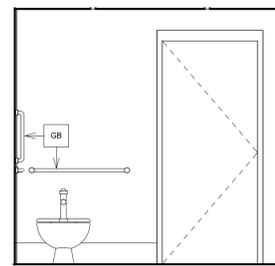
1 ENLARGED RESTROOM PLANS
3/8" = 1'-0"



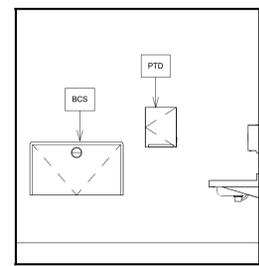
ACCESSIBILITY REQUIREMENTS
1/4" = 1'-0"



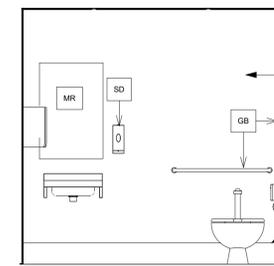
3 RR 120 NORTH ELEVATION
3/8" = 1'-0"



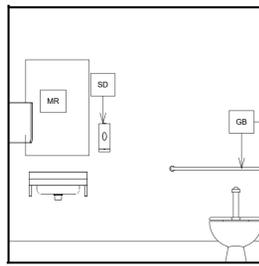
4 RR 120 EAST ELEVATION
3/8" = 1'-0"



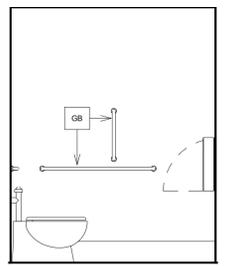
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3/8" = 1'-0"



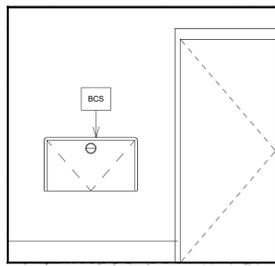
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3/8" = 1'-0"



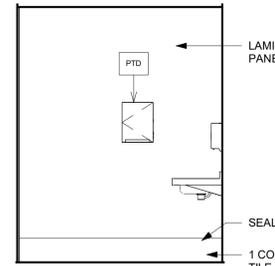
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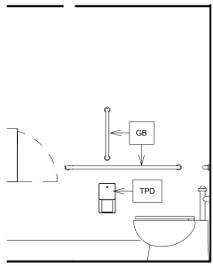
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3/8" = 1'-0"



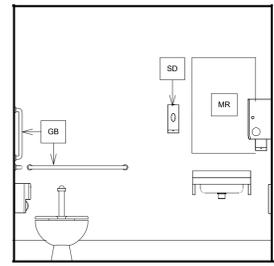
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3/8" = 1'-0"



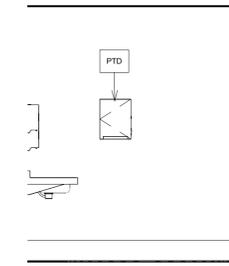
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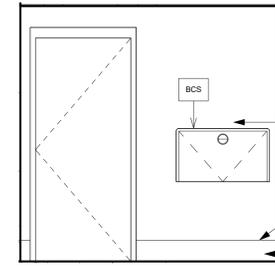
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3/8" = 1'-0"



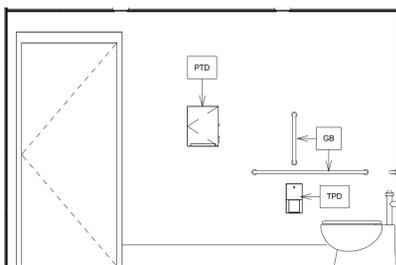
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3/8" = 1'-0"



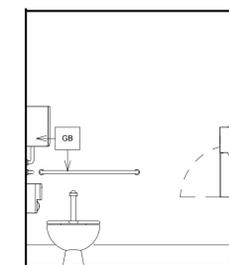
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3/8" = 1'-0"



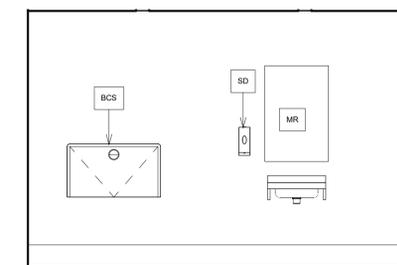
13 RR 122 WEST ELEVATION
3/8" = 1'-0"



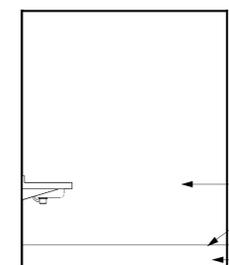
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3/8" = 1'-0"



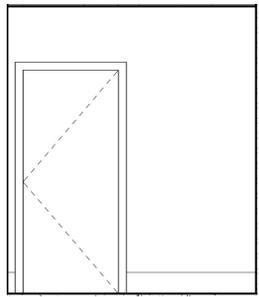
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3/8" = 1'-0"



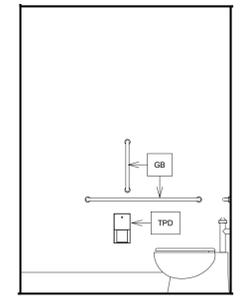
16 RR 123 SOUTH ELEVATION
3/8" = 1'-0"



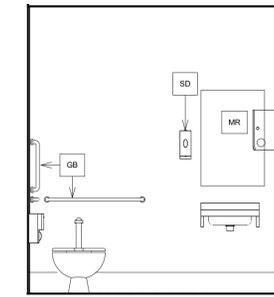
17 RR 123 WEST ELEVATION
3/8" = 1'-0"



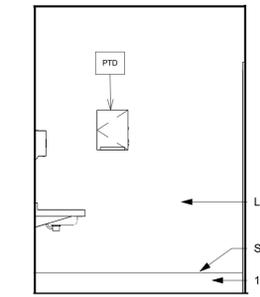
19 STAFF RR NORTH ELEVATION
3/8" = 1'-0"



20 STAFF RR EAST ELEVATION
3/8" = 1'-0"



21 STAFF RR SOUTH ELEVATION
3/8" = 1'-0"



22 STAFF RR WEST ELEVATION
3/8" = 1'-0"

TOILET ROOM ACCESSORIES	
MARK	ACCESSORY
TPD	TOILET PAPER DISPENSER
PTD	PAPER TOWEL DISPENSER
MR	MIRROR
GB	GRAB BAR
BCS	BABY CHANGING STATION
SD	SOAP DISPENSER
AHD	AUTOMATIC HAND DRYER

NOTES
1. PROVIDE SOLID WOOD BLOCKING IN ALL DRYWALL PARTITIONS FOR MOUNTING OF TOILET ACCESSORIES
2. INSTALL PER MANUFACTURERS INSTRUCTIONS FOR H.C. ACCESSIBILITY.
* ALL DIMENSIONS SHOWN TO TOILET ACCESSORIES AND FIXTURES ARE FROM FACE OF FINISH

LAMINATE WALL PANEL, TYP
SEALANT, TYP
1 COURSE CERAMIC TILE, TYP

LAMINATE WALL PANEL, TYP
SEALANT, TYP
1 COURSE CERAMIC TILE, TYP

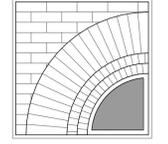
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SEALANT, TYP
1 COURSE CERAMIC TILE, TYP

LAMINATE WALL PANEL, TYP
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57 West High Street
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New York 12020

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F: 518-885-1266
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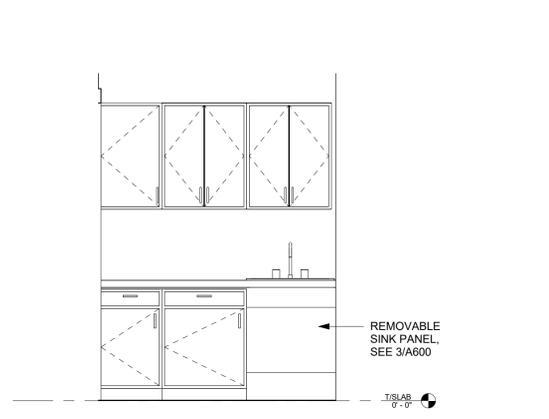
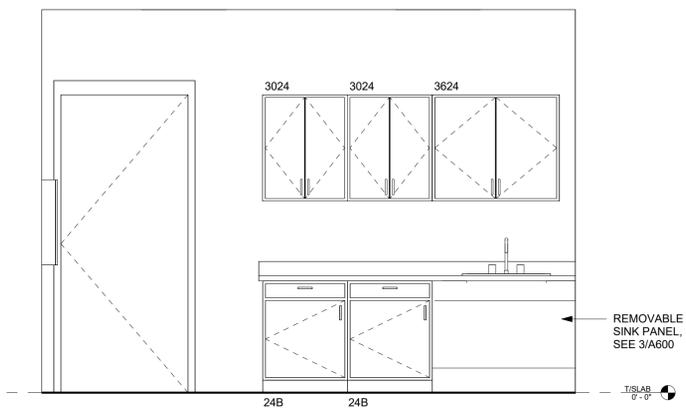
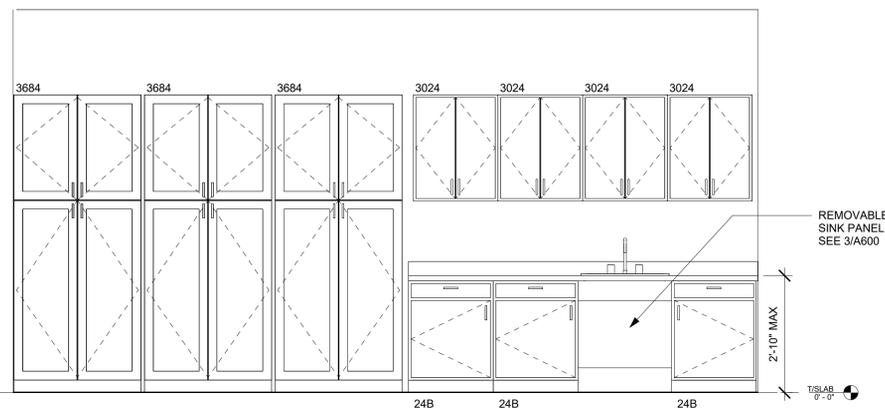
CALLED NORTH

DWN. BY: Author
SCALE: As indicated
JOB NO.: 23-48-06
DATE: 03/12/25

MILLWORK

TITLE

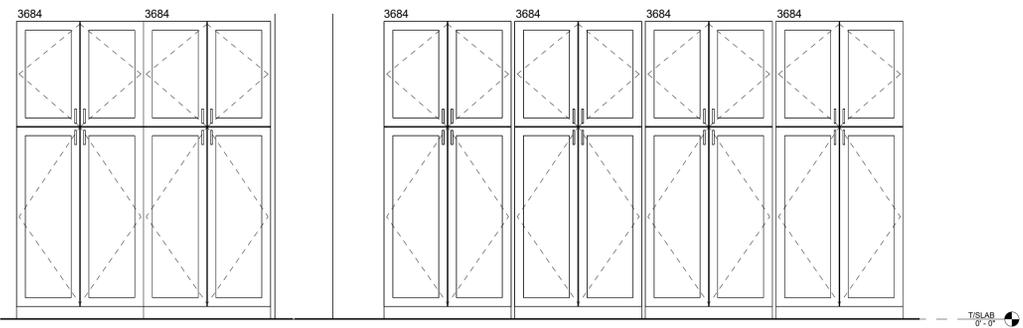
A600
DWG. NO.



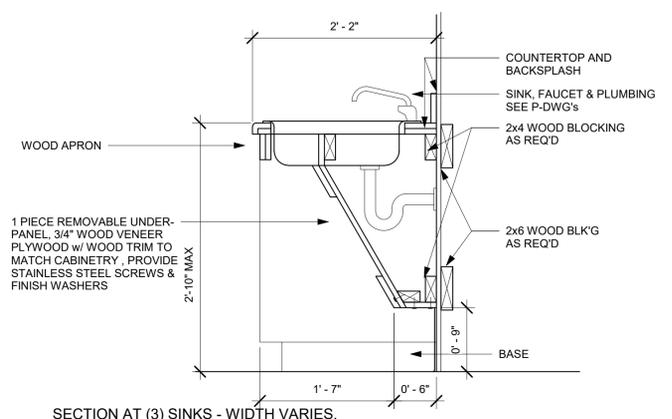
1 PROGRAM ROOM MILLWORK
ELEVATION
1/2" = 1'-0"

2 STAFF ROOM MILLWORK ELEVATION
1/2" = 1'-0"

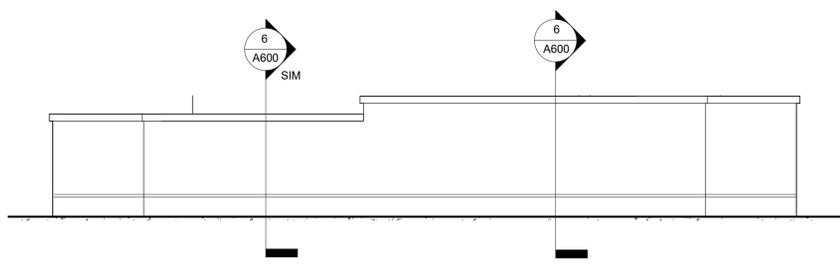
9 KITCHENETTE ELEVATION
1/2" = 1'-0"



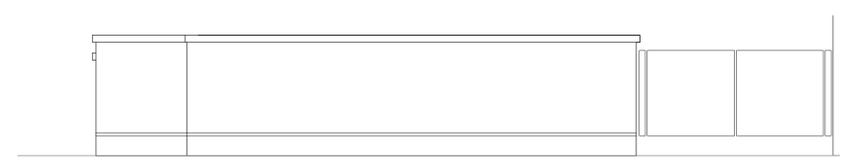
10 MEETING ROOM MILLWORK
1/2" = 1'-0"



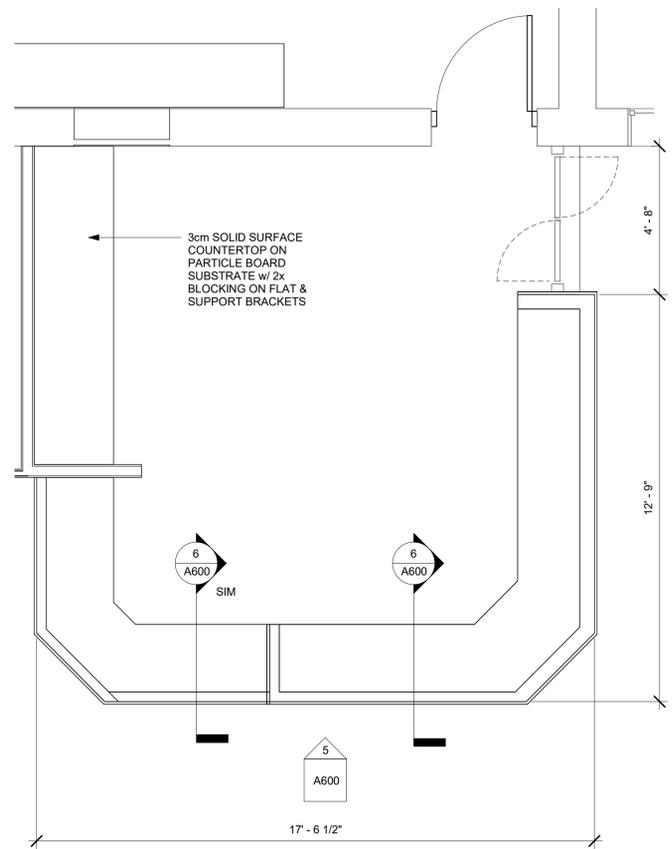
SECTION AT (3) SINKS - WIDTH VARIES,
VIF
1" = 1'-0"



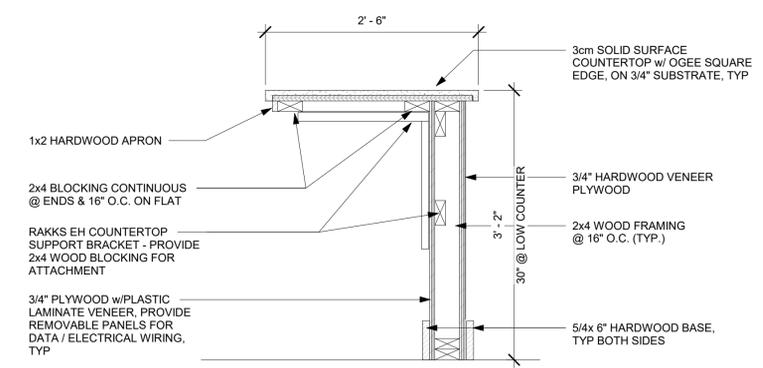
5 CIRC DESK FRONT ELEVATION
1/2" = 1'-0"



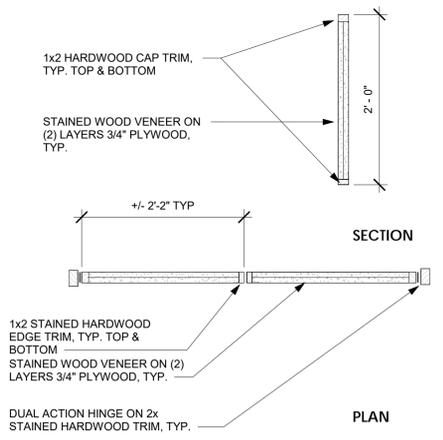
7 CIRC DESK SIDE ELEVATION
1/2" = 1'-0"



4 CIRC DESK PLAN
3/8" = 1'-0"



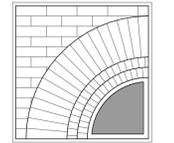
6 TYPICAL DESK SECTION
1" = 1'-0"



8 GATE DETAIL
1" = 1'-0"

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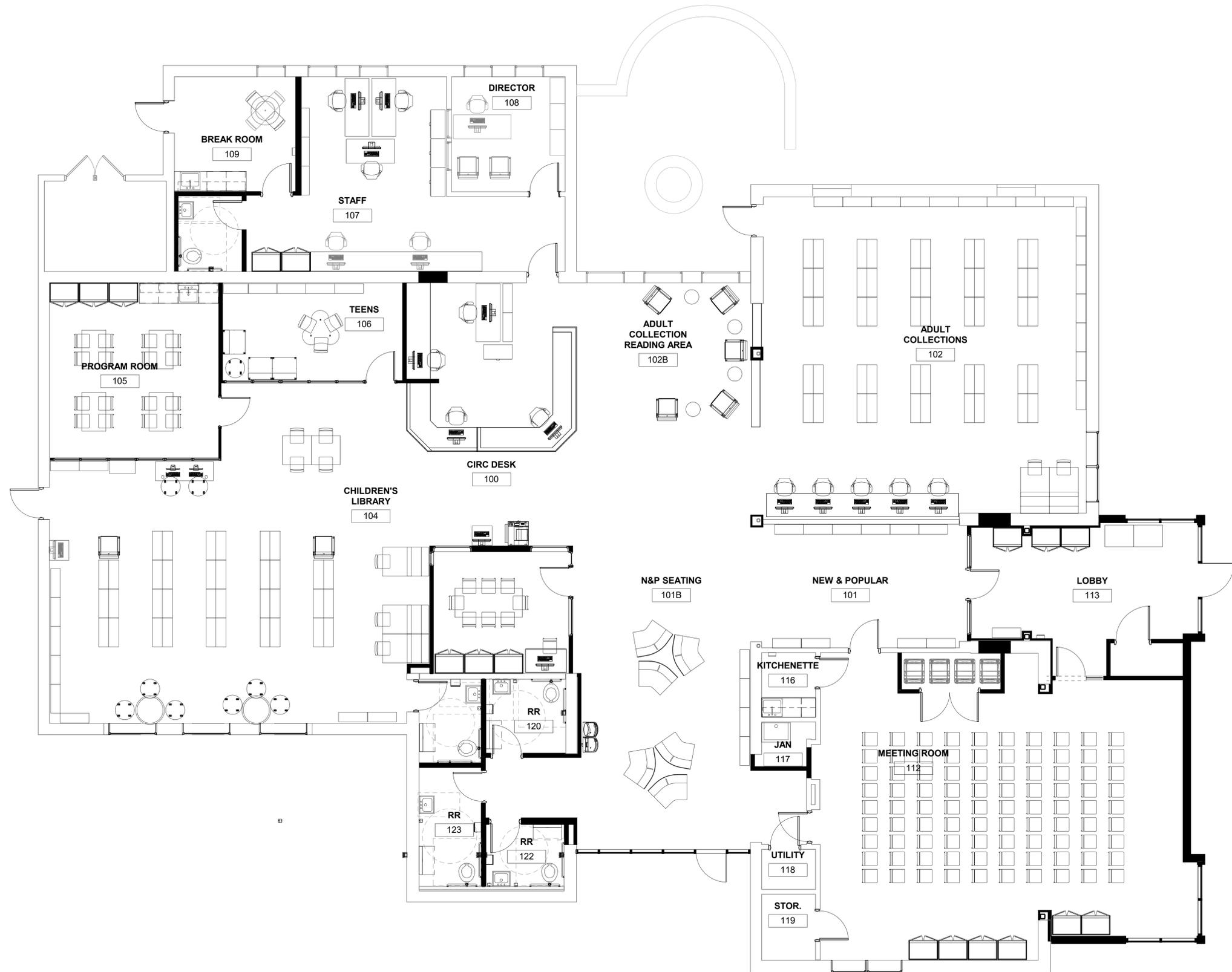
DWN. BY: Author
SCALE: 3/16" = 1'-0"
JOB NO.: 23-48-08
DATE: 11/08/23

**FURNITURE
PLAN**

TITLE

F100

DWG. NO.



1 FURNITURE FLOOR PLAN
3/16" = 1'-0"

MIXING VALVE SCHEDULE										
TAG	LOCATION	SERVICE	MIN FLOW (GPM)	DESIGN FLOW (GPM)	DESIGN FLOW DELTA-P PSI	HOT WATER TEMP.	COLD WATER TEMP.	MIXED WATER TEMP.	BASIS OF DESIGN	REMARKS
TMV-1	BELOW LAVATORY FAUCET	SEE PLANS	0.5	5	5	140°F	50°F	110°F	CHICAGO FAUCET 131-ABNF	1, 2, 3, 4
NOTES: 1. COLD WATER TEMPERATURE WILL VARY. 2. LEAD FREE. 3. MIXING VALVE SHALL BE ASSE 1017 COMPLIANT. 4. MIXING VALVE SHALL BE ASSE 1070 COMPLIANT.										

EXPANSION TANK SCHEDULE										
TAG	TYPE	CAPACITY (GAL)	MIN TEMP (DEG. F)	MAX TEMP (DEG. F)	MIN. PRES (PSIG)	MAX PRES (PSIG)	DIA (IN)	HEIGHT (IN)	BASIS OF DESIGN MFG. AND MODEL	REMARKS
ET-1	VERT ASME DIAPHRAGM	2.1	50	120	20	125	10"	10"	THERM-X-TROL ST-5-C	DOMESTIC HOT WATER

WATER HAMMER ARRESTOR SCHEDULE					
MODEL NUMBER					
HYDROTROL	5005	5010	5020	5030	5040
FIXTURE UNIT RATING	1-11	12-32	33-60	61-113	114-154
TAG	WHA-A	WHA-B	WHA-C	WHA-D	WHA-E
OR APPROVED EQUAL					

PIPE INSULATION THICKNESS								
FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)					REMARKS
	CONDUCTIVITY BTU*IN/(H*FT ² *F)	MEAN RATING TEMPERATURE (°F)	<1	1 TO 1-1/2	1-1/2 TO <4	4 TO <8	≥8	
105 - 140 DOMESTIC HOT WATER	0.21-0.28	100	1	1	1.5	1.5	1.5	
40-60 DOMESTIC COLD WATER	0.21-0.27	75	0.5	0.5	1	1	1	
1. FOR OUTDOOR PIPING PROVIDE DOUBLE THE INSULATION THICKNESS LISTED AND WEATHER PROOF JACKET (ALUMAGAARD). 2. FOR PIPING SMALLER THAN 1-1/2" AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESS BY 1 INCH SHALL BE PERMITTED. REVIEW ENERGY CONSERVATION CODE. 3. FOR PIPING IN MECHANICAL ROOMS, PROVIDE ALUMINUM INSULATION JACKET FOR ALL PIPING FROM FLOOR LEVEL TO 10' ABOVE THE FLOOR. 4. FOR CHILLED WATER AND CHILLED GLYCOL SYSTEMS PROVIDE CONTINUOUS INSULATION AT VALVES. 4a. FOR CHILLED WATER AND CHILLED GLYCOL SYSTEMS, PROVIDE REUSABLE VALVE WRAPS COVERS (NOSWEAT REUSABLE VALVE WRAPS). 5. FOR HOT WATER AND GLYCOL SYSTEMS, PROVIDE REUSABLE VALVE WRAPS COVERS. (NOSWEAT REUSABLE VALVE WRAPS).								

BALANCE VALVE SCHEDULE		
BRANCH (GPM)	BALANCING VALVE SIZE (INCHES)	REMARKS
0 TO 2.5	1/2	1
2.6 TO 4.5	3/4	1
1. PROVIDE BALANCING VALVE OF SIZE LISTED FOR FLOW RATE RANGES LISTED REGARDLESS OF PIPE LINE SIZE.		

PLUMBING FIXTURE SCHEDULE										
TAG	FIXTURE TYPE	BASIS OF DESIGN MANUFACTURER	MODEL NO.	MAXIMUM FIXTURE FLOW RATES	CONNECTION SIZE				REMARKS	
					CW	HW	W	V		
WC-1	WATER CLOSET (ADA HEIGHT), WALL MOUNTED	TOTO	GHE20313	1.28 GALLONS PER FLUSH	1/2"	-	3"	2"	2. WALL MOUNTED W/ CARRIER, TOTO TET6LA, 1.28 GPF TURBINE/CAPACITOR HYDROELECTRIC POWERED FLUSH VALVE, 1.5" TOP SPUD, ELONGATED BOWL, ASME A112.19.15" RIM HEIGHT, HEAVY DUTY OPEN FRONT SEAT, (2)	
LAV-1	WALL-HUNG (ADA HEIGHT) LAVATORY	KOHLER	K02205	0.5 GPM @ 60 PSI	1/2"	1/2"	1 1/2"	1 1/2"	1, 3, 4, 5. PROVIDE MANUAL ADA FAUCET, LEVER HANDLE (KOHKER K-15243-4RA), 0.5 GPM, ADA TRIM-INSULATED, ADA/ANSI-A117.1. (1) (3) (4)	
KSK-1	SINGLE BOWL SINK	ELKAY	LR2522	2.2 GPM @ 60 PSI	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE 3 HOLE DELTA 400-DST FAUCET WITH SPRAY, SUPPLIES, P-TRAP, BASKET STRAINER	
KSK-2	SINGLE BOWL SINK	ELKAY	LR2522	2.2 GPM @ 60 PSI	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE 3 HOLE DELTA 400-DST FAUCET WITH SPRAY, SUPPLIES, P-TRAP, BASKET STRAINER	
KSK-3	SINGLE BOWL SINK	ELKAY	LR2522	2.2 GPM @ 60 PSI	1/2"	1/2"	1 1/2"	1 1/2"	REPLACE EXISTING DROP-IN SINK, PROVIDE 3 HOLE DELTA 400-DST FAUCET WITH SPRAY, SUPPLIES, P-TRAP, BASKET STRAINER	
FD-1	FLOOR DRAIN	JR SMITH	2005	N/A	-	-	3"	1 1/2"	DURA-COATED CAST IRON BODY, POLISHED NICKEL BRONZE STRAINER 6" DIA., HEEL PROOF & ADJUSTABLE, LIGHT DUTY, WITRAP SEAL PRIME DEVICE STABILIZER RING	
DPCO-1	DECK PLATE CLEANOUT	JR SMITH	4031	N/A	-	-	VARIES	-	ROUND, POLISHED BRONZE NON-SLIP COVER, DIAMOND PATTERN.	
EW-1	ADA WATER COOLER WITH BOTTLE FILER	ELKAY	LZSTL8WSP	N/A	1/2"	-	2"	-	DUAL FOUNTAIN UNIT W/BOTTLE FILLER, ADA, STAINLESS STEEL W/ AIR COOLED CHILLER, NSF/ANSI STD 53 & 42, 7.5 GPH @ 50°F, STANDARD HEIGHT X ADA, PROVIDE ACCESSORY APRON CANE MODEL 98324C, STAINLESS STEEL CONSTRUCTION TO MAINTAIN THE MANDATORY ADA 27" FLOOR TO UNDERSIDE REQUIREMENT.	
MSB-1	MOP SINK	FIAT	TSB-100	2.2 GPM @ 60 PSI	3/4"	3/4"	3"	2"	PROVIDE FIAT 830-AA FAUCET WITH VACUUM BREAKER, PAIL HOOK AND 3/4" HOSE THREADED SPOUT	
RD-1	ROOF DRAIN AND OVERFLOW DRAIN	JR SMITH	1800	N/A	-	-	SEE PLAN	-	STANDARD AND EMERGENCY ROOF DRAIN, LARGE LOW PROFILE POLYETHYLENE DOME, CAST IRON BODIES, COMBINED FLASHING CLAMP AND GRAVEL STOP AND UNDERDECK CLAMP, 3 1/2" HIGH INTERNAL WATER DAM STANDPIPE	
DS-1	OVERFLOW DRAIN SPOUT	JR SMITH	1775	N/A	-	-	SEE PLAN	-	FLAP COVER AT ABOVE GRADE OUTLETS, SIZE PER DRAWINGS, HINGED PERFORATED COVER, STAINLESS STEEL FINISH.	
GCO-1	GRADE CLEANOUT	JR SMITH	4250	N/A	-	-	4"	-	FLOOR CLEANOUT FOR UNFINISHED AREA, ROUND FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER	
1. PROVIDE FAUCET, C/W/H/W, STOPS AND WASTE TRIM. MEET ANS/ADA REQUIREMENTS AT ADA FIXTURES. 2. ERGO HEIGHT ADA ELONGATED TOILET WITH FLUSHMATE PRESSURE VESSEL WITH EXTRA LARGE DUAL FED SIPHON JETS FOR HIGH POWER BOWL CLEANING, PROVIDE TOILET SEAT (G0099216). 3. LAVATORY'S SHALL HAVE A MANUAL FAUCET SETS, 4" CC. 4. LAVATORY SHALL HAVE AN ADJUSTABLE THERMOSTATIC SETTING FOR 120°F WATER IN - 105°F WATER OUT ON THE FAUCET DISCHARGE. 5. WITH GRIDDED DRAIN OFFSET TAIL PIECE, PIPING SAFETY COVERS.										

FITTINGS FOR CHANGE IN DIRECTION			
TYPE OF FITTING PATTERN	CHANGE IN DIRECTION		
	HORIZONTAL TO VERTICAL	VERTICAL TO HORIZONTAL	HORIZONTAL TO HORIZONTAL
SIXTEENTH BEND	X	X	X
EIGHTH BEND	X	X	X
SIXTH BEND	X	X	X
QUARTER BEND	X	X(a)	X(a)
SHORT SWEEP	X	X(a,b)	X(a,b)
LONG SWEEP	X	X	X
SANITARY TEE	X	-	-
WYE	X	X	X
COMBINATION WYE AND EIGHTH BEND	X	X	X
a. THE FITTING SHALL ONLY BE PERMITTED FOR A 2-INCH OR SMALLER FIXTURE DRAIN. b. THREE INCHES OR LARGER.			

IN-LINE CIRCULATOR PUMP SCHEDULE										
TAG	SERVING	TYPE	CAPACITY (GPM)	HEAD (FT)	ELECTRICAL			RPM	BASIS OF DESIGN	REMARKS
					VOLTS	PHASE	HP			
RP-1	WH-1	CARTRIDGE	3	30	120	1	1/6	3250	TACO 0013-MSSFT-IFC	1, 2, 3, 4, 5, 6
1. 3-SPEED STAINLESS STEEL CONSTRUCTION. 2. PROVIDE WITH DIGITAL TIMER TACO 265-3 OR EQUAL. 3. CIRCULATING HOT WATER PUMP 3/4" CONNECTIONS. 4. PUMP RUNS CONTINUOUSLY DURING OCCUPIED HOURS. 5. PROVIDE WITH ISOLATION VALVES. 6. PROVIDE PIPING FLANGES AS BRONZE OR STAINLESS STEEL										

ELECTRIC WATER HEATER SCHEDULE									
TAG	LOCATION	CAPACITY (WATTS)	SIZE (GAL)	OPERATING TEMP. (DEG. F)	RECOVERY (GPH AT 100 DEG. F)	ELECTRICAL		BASIS OF DESIGN MANUFACTURER & MODEL	REMARKS
						VOLTS	PHASE		
WH-3	1ST FLOOR 1-08 UTILITY RM	1440	6	140	N/A	120	1	EEMAX MINI TANK EMT4	2, 3, 4
1. PROVIDE WATER HEATER WITH DIELECTRIC HEAT TRAPS NIPPLES ON THE HOT AND COLD WATER CONNECTIONS. 2. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS. 3. MIXING VALVE SHALL MEET ASSE 1070, NO ADDITIONAL MIXING VALVE REQUIRED. 4. MOUNT ON WALL INSIDE CABINET ADJACENT TO SINK, PIPE RELIEF VALVE DISCHARGE TO FLOOR.									

GENERAL NOTES:

- PITCH ALL WATER LINES TO DRAIN, PROVIDE SHUTOFF VALVES ON ALL DOMESTIC COLD AND HOT WATER SUPPLY PIPING TO INDIVIDUAL FIXTURES.
- PIPING SHALL RUN CONCEALED IN ALL AREAS WITH THE EXCEPTION OF MECHANICAL ROOMS OR WHERE NO CEILING EXISTS.
- ALL DOMESTIC WATER PIPING PRESSURE TESTS SHALL BE CONDUCTED PRIOR TO INSTALLATION OF PIPING INSULATION.
- INSTALL DIELECTRIC CONNECTORS BETWEEN DISSIMILAR MATERIALS.
- INSTALL HORIZONTAL RUNS OF DOMESTIC COLD AND HOT WATER PIPE AS HIGH AS POSSIBLE. PROVIDE DRAW-OFFS AT ALL LOW POINTS WITH 3/4" HOSE VALVE AND CAP CONNECTION.
- REFER TO EQUIPMENT SCHEDULES, DETAILS AND RISER DIAGRAMS FOR SIZES NOT SHOWN ON FLOOR PLANS.
- PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY AND STORM RISERS.
- PROVIDE DOMESTIC CW, HW ISOLATION VALVES TO ALL BATHROOM GROUP FIXTURES.
- PROVIDE CUTTING & PATCHING OF EXISTING STRUCTURAL REINFORCED FLOOR SLAB AT GROUND LEVEL. UNDER-SLAB PIPING SHALL BE SET AT A SLOPE AND PITCH OF 1/8" PER FT. MINIMUM AND SUPPORTED TO PROVIDE FOR PATCHING WORK.
- CLEAN AND VELOCITY FLUSH EXISTING BELOW SLAB SANITARY PIPING ON GROUND FLOOR SCHEDULED TO REMAIN IN SERVICE. PROVIDE ADEQUATE FLOWS TO FLUSH PIPING AT 1/2 FULL CAPACITY MINIMUM.
- VERTICALLY SUPPORT ALL RISERS AND STACKS AT EACH FLOOR AND SECURE TO WALLS PER SPECIFIED SPACING.
- ALL OPERATING VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS SHALL BE PLACED WHERE ACCESSIBLE AND MAINTAINABLE WITHIN CEILINGS AND CHASES.
- CONFIRM WALL AND FLOOR CONDITIONS WITH FINISHES AND ACCOMMODATE PLUMBING FIXTURE PLACEMENTS WITH TRIM.
- LAVATORIES AND KITCHEN SINKS SHALL BE PROVIDED WITH A MIXING VALVE TO DELIVER 110°F HOT WATER.

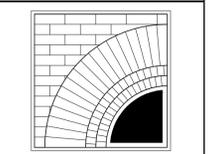
LEGEND & ABBREVIATIONS

	PIPING OR EQUIPMENT REMOVALS
	ELBOW - UP
	ELBOW - DN
	BRANCH - TOP OF PIPE
	BRANCH - BOTTOM OF PIPE
	CAP
	UNION
	BALL VALVE (TYPICAL)
	SWING CHECK VALVE
	PRESSURE REDUCING VALVE
	PRESSURE GAUGE
	STRAINER
	DECK PLATE CLEANOUT
	FLOOR DRAIN
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RECIRC. PIPING
	BELOW SLAB SANITARY PIPING
	ABOVE SLAB SANITARY PIPING
	SANITARY VENT PIPING
	STORM PIPING
	REMOVAL POINT
	CONNECTION POINT
	KEYED NOTE
	KEYED NOTE
	ABOVE FINISH FLOOR
	ABOVE FINISHED GRADE
	CLEAN OUT
	CONTINUATION
	COLD WATER
	DOMESTIC COLD WATER
	DETAIL
	DRINKING FOUNTAIN
	DOWN
	DRAWING
	FLOOR CLEANOUT
	DOWN SPOUT
	ELECTRICAL CONTRACTOR
	EMERGENCY EYEWASH STATION
	ELECTRIC WATER HEATER
	ELECTRIC WATER COOLER
	EXISTING
	FLOOR DRAIN
	FROST FREE HOSE BIBB
	GAS
	HOSE BIB
	HOT WATER
	HOT WATER RECIRCULATING
	INVERT ELEVATION
	LAVATORY
	ROOF DRAIN
	CIRCULATION PUMP
	ROOF TOP UNIT
	ROOF LEADER
	SANITARY
	STORM
	THROUGH
	TEMPERATURE AND PRESSURE RELIEF VALVE
	VENT THRU ROOF
	WATER CLOSET
	WATER HEATER
	WALL CLEAN OUT
	WATER HAMMER ARRESTOR

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57 West High Street
Ballston Spa
New York 12020

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F: 518-885-1266
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Additions & Renovations

for the
Marlboro Free Library

1251 Rte 9W
Marlboro, NY 12542

PROJECT



CONSULTANT



STAMP

CALLED NORTH

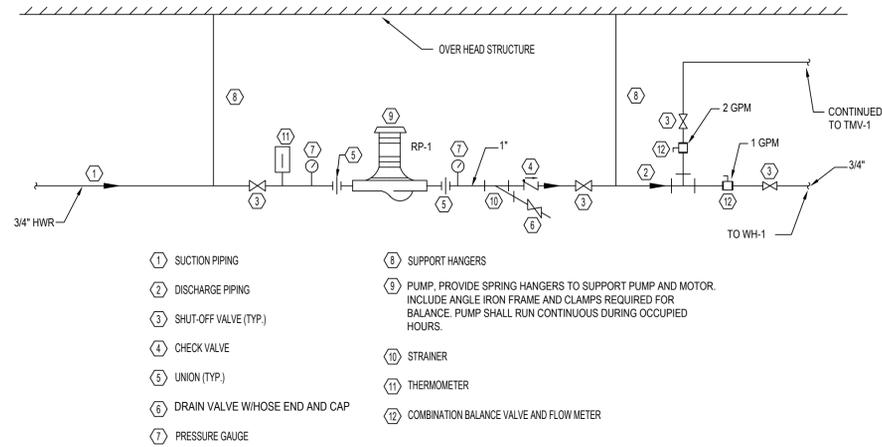
DWN. BY: RW
SCALE: AS SHOWN
JOB NO.: 23-46-06
DATE: 05/20/25

LEGEND, SYMBOLS AND DETAILS

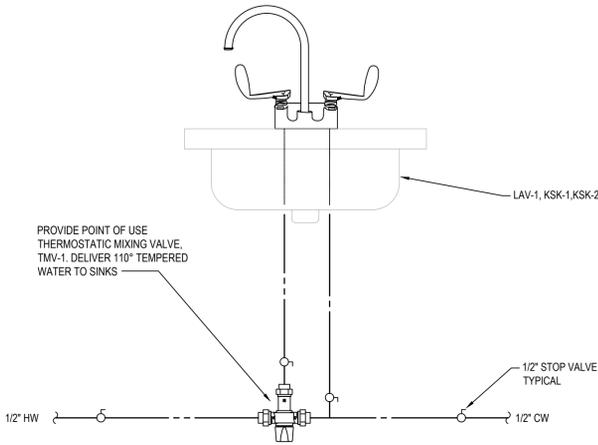
TITLE

P001

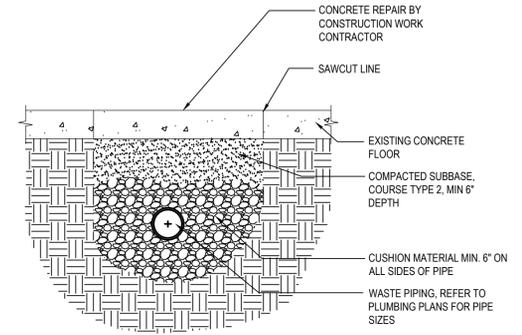
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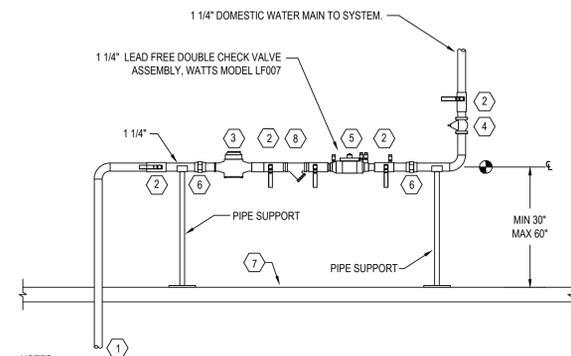
1 INLINE PUMP DETAIL
P-002 SCALE: N.T.S.



2 LAVATORY/SINK MIXING VALVE DETAIL
P-002 SCALE: N.T.S.

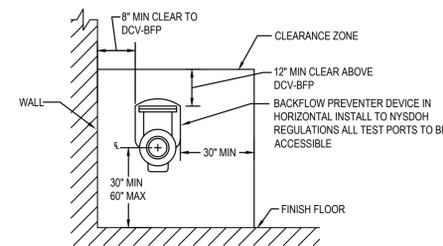


3 PIPE TRENCH DETAIL
P-002 SCALE: N.T.S.

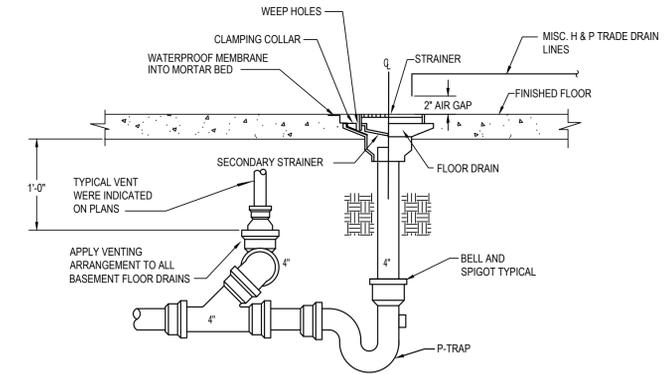


- NOTES:**
1. DEVICE CENTER LINE TO BE 30" TO 60" ABOVE FINISHED FLOOR.
 2. THERE WILL BE A MINIMUM CLEARANCE OF 12" ABOVE UNIT.
 3. THERE WILL BE A MINIMUM OF 30" IN FRONT OF UNIT.
 4. THERE WILL BE A MINIMUM OF 8" OFF BACK SIDE OF UNIT.
- | ITEM | DESCRIPTION |
|------|--------------------------------------|
| 1 | INCOMING 1 1/4" WATER SERVICE |
| 2 | BALL VALVE |
| 3 | DOMESTIC WATER METER |
| 4 | WATER PRESSURE REDUCING VALVE |
| 5 | DOUBLE CHECK VALVE WATTS MODEL LF007 |
| 6 | UNION |
| 7 | FINISHED FLOOR |
| 8 | STRAINER |

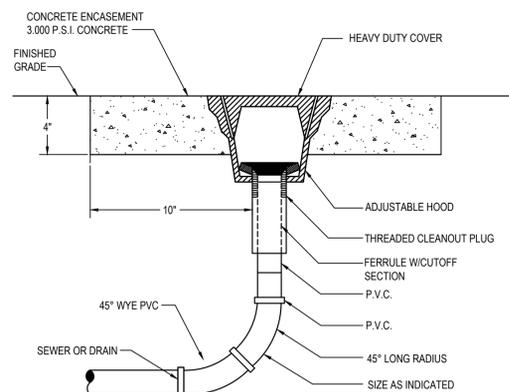
4 DOMESTIC WATER MAIN RISER DETAIL
P-002 SCALE: N.T.S.



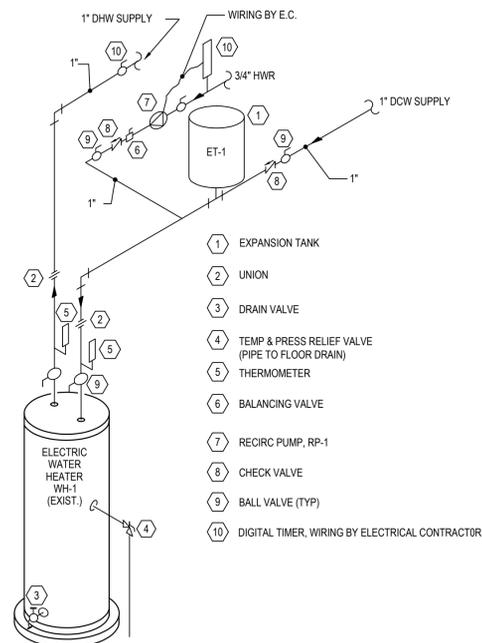
5 BACKFLOW PREVENTER CLEARANCE DETAIL
P-002 SCALE: N.T.S.



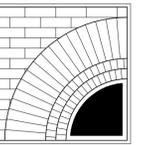
6 FLOOR DRAIN WITH BURIED PIPING DETAIL
P-002 SCALE: N.T.S.



7 GRADE CLEANOUT DETAIL (GCO-1)
P-002 SCALE: N.T.S.



8 ELECTRIC WATER HEATER DETAIL (WH-1)
P-002 SCALE: N.T.S.



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SAGE PROJECT 4095

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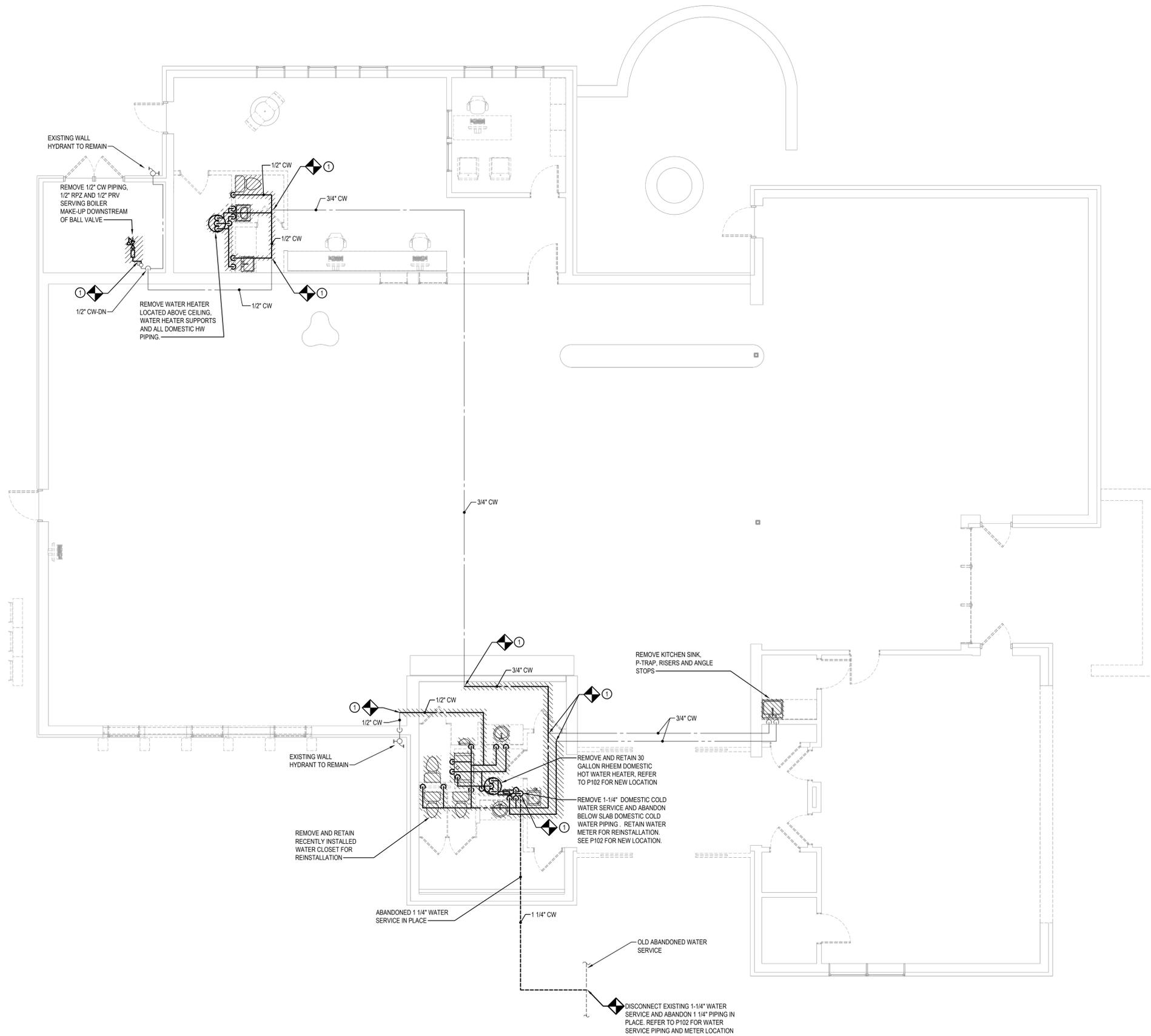
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DETAILS

TITLE

P002

DWG. NO.



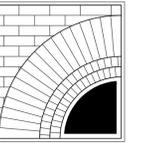
KEYED NOTES:

- ① REMOVE PLUMBING FIXTURES AND DOMESTIC WATER PIPING AS SHOWN, REFER TO P102 FOR PIPING INSTALLATION.

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**DOMESTIC
WATER
REMOVAL PLAN**

TITLE

PR102

DWG. NO.

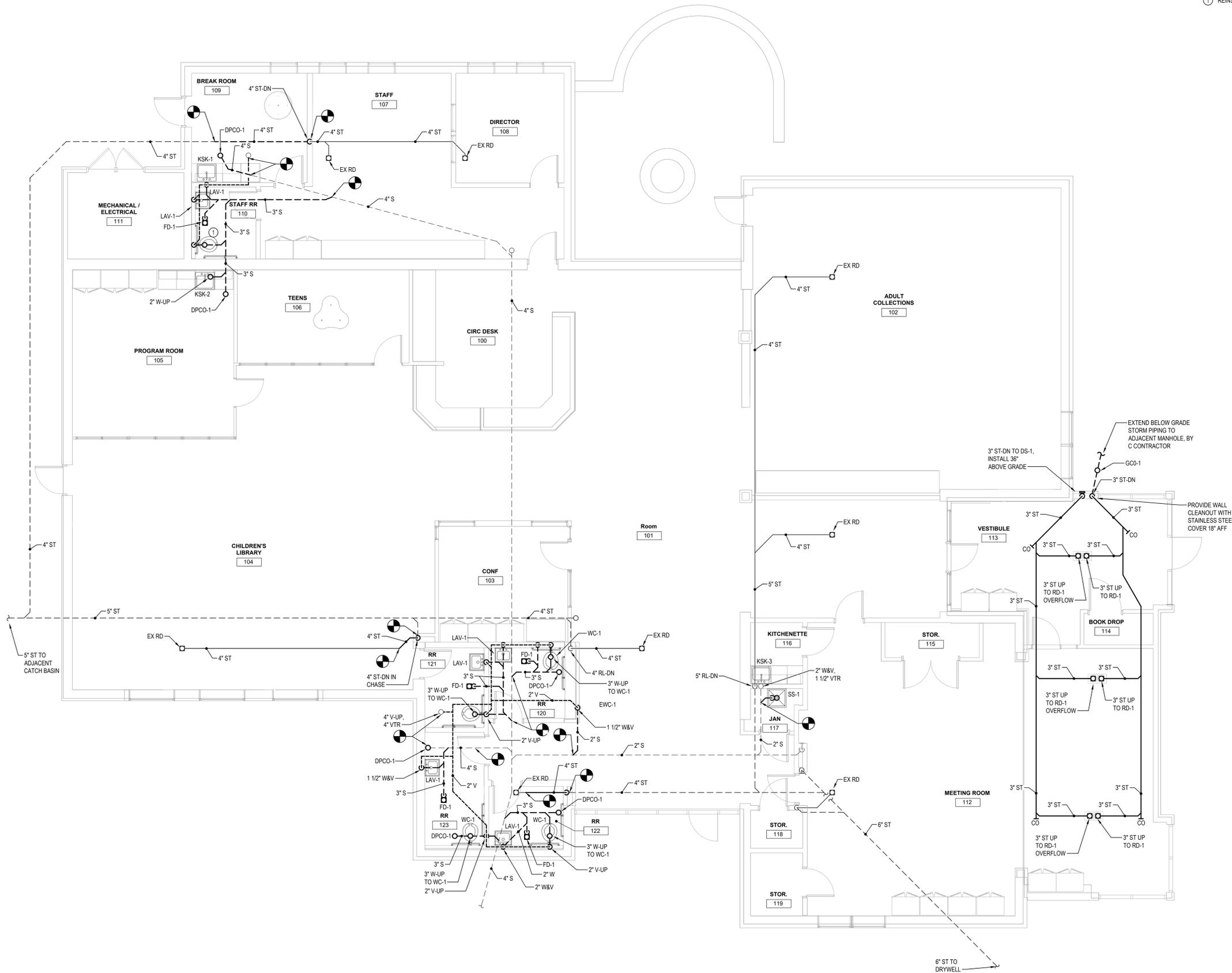
① **REMOVALS PLAN**
3/16" = 1'-0"

GENERAL NOTES:

- 1. COORDINATE STORM PIPING INSTALLATION IN ADDITION WITH HVAC DUCTWORK.

KEYED NOTES:

- ① REINSTALL SALVAGED TANK WATER CLOSET.

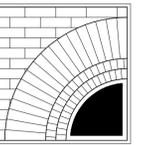


① PLUMBING INSTALLATION PLAN
3/16" = 1'-0"

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**SANITARY, VENT
AND STORM
INSTALLATION
PLAN**

TITLE

P101

DWG. NO.

GENERAL NOTES:

- 1. COORDINATE DOMESTIC WATER PIPING INSTALLATION WITH HVAC DUCTWORK.

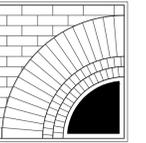
KEYED NOTES:

- ① REINSTALL SALVAGED TANK WATER CLOSET.

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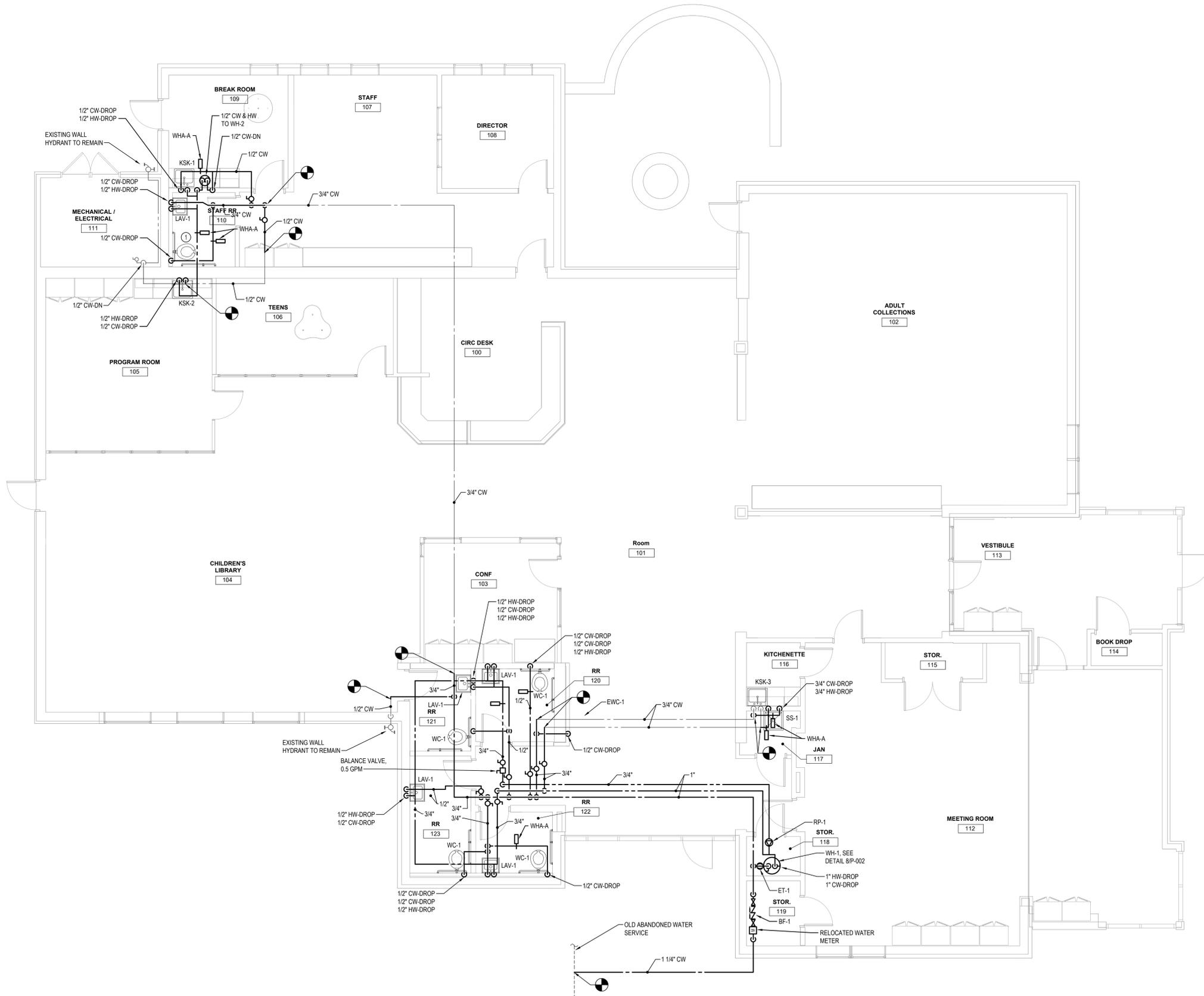
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SCALE: AS SHOWN
JOB NO.: 23-46-06
DATE: 05/20/25

**DOMESTIC
WATER
INSTALLATION
PLAN**

TITLE

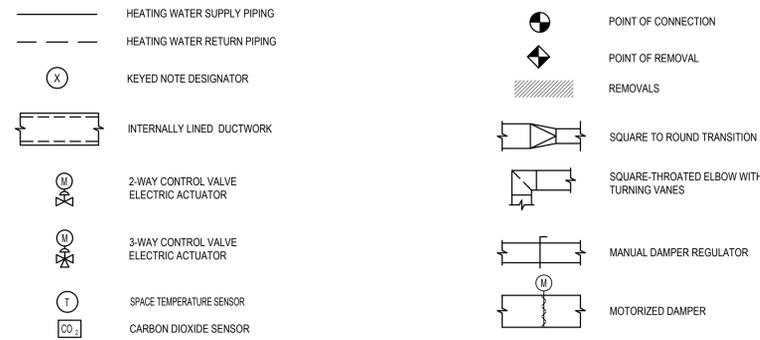
P102

DWG. NO.



① PLUMBING INSTALLATION PLAN
3/16" = 1'-0"

SYMBOLS LEGEND



ABBREVIATIONS:

A	AMP	KW	KILOWATT
AD	ACCESS DOOR	L	LENGTH - OR LOUVER
AF	AIR FILTER	LAT	LEAVING AIR TEMPERATURE
AFG	ABOVE FINISHED FLOOR	LBS	POUNDS
AHU	AIR HANDLING UNIT	LBSHR	POUNDS PER HOUR
APD	AIR PRESSURE DROP	LD	LINEAR DIFFUSER
AS	AIR SEPARATOR	LDB	LEAVING DRY BULB TEMPERATURE
BHP	BRAKE HORSEPOWER	LF	LINEAR FOOT
BOD	BOTTOM OF DUCT	LWB	LEAVING WET BULB TEMPERATURE
BOE	BOTTOM OF EQUIPMENT	LWT	LEAVING WATER TEMPERATURE
BOP	BOTTOM OF PIPE	MAU	MAKE-UP AIR UNIT
BOS	BOTTOM OF STEEL	MAX	MAXIMUM
BTM	BOTTOM	MBH	THOUSAND BTUH
BTU	BRITISH THERMAL UNITS	MCA	MINIMUM CIRCUIT AMPS
BTUH	BRITISH THERMAL UNITS/HOUR	MFG	MANUFACTURER
CAP	CAPACITY	MH	MOUNTING HEIGHT
CC	COOLING COIL	MIN	MINIMUM
CD	CEILING DIFFUSER	N/A	NOT APPLICABLE
CFH	CUBIC FEET PER HOUR	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
CG	CEILING GRILL	NOL	NON OVER LOADING
CLEANOUT	CLEANOUT	NTS	NOT TO SCALE
COP	COEFFICIENT OF PERFORMANCE	OA	OUTSIDE AIR
CONT	CONTINUED	OD	OUTSIDE DIAMETER
CR	CEILING REGISTER	OED	OPEN END DUCT
CUH	CABINET UNIT HEATER	P	PUMP
CV	VALVE COEFFICIENT OR CONTROL VALVE	PD	PRESSURE DROP
D	DEPTH - OR DIFFUSER	PH	PHASE
DB	DRY BULB - OR DEGBELS	PSI	POUNDS PER SQUARE INCH
DDC	DIRECT DIGITAL CONTROL	QTY	QUANTITY
DEG F	DEGREES FAHRENHEIT	R	RADIUS
DHW	DOMESTIC HOT WATER	RA	RETURN AIR
DIA	DIAMETER	RC	REHEAT COIL
DN	DOWN	RD	RETURN DUCT
DWG	DRAWING	RH	RELATIVE HUMIDITY
EA	EXHAUST AIR	RM	ROOM
EAT	ENTERING AIR TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EDB	ENTERING DRY BULB	RG	RETURN GRILLE
EER	ENERGY EFFICIENCY RATIO	RPZ	REDUCED PRESSURE ZONE
EF	EXHAUST FAN	RR	RETURN REGISTER
EFF	EFFICIENCY	RTU	ROOFTOP UNIT
EG	EXHAUST GRILLE	SA	SUPPLY AIR
ER	EXHAUST REGISTER	SCH	SCHEDULE
ERV	ENERGY RECOVERY VENTILATOR	SD	SUPPLY DIFFUSER OR SUPPLY DUCT
ESP	EXTERNAL STATIC PRESSURE	SF	SQUARE FOOT - OR SUPPLY FAN
ET	EXPANSION TANK	SG	SUPPLY GRILLE
EX	EXISTING	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	SPS	STATIC PRESSURE SENSOR
F	FAHRENHEIT - OR FILTER	SR	SUPPLY REGISTER
FAI	FRESH AIR INTAKE	SS	STAINLESS STEEL
FC	FORWARD CURVED	TEMP	TEMPERATURE
FCU	FAN COIL UNIT	TG	TRANSFER GRILLE
FD	FIRE DAMPER	TOP	TOP OF DUCT
FH	FILTER HOUSING	TSP	TOTAL STATIC PRESSURE
FLA	FULL LOAD AMPS	TYP	TYPICAL
FLR	FLOOR	UH	UNIT HEATER
FSD	COMBINATION FIRE SMOKE DAMPER	V	VOLT
FT	FEET	VAV	VARIABLE AIR VOLUME
FTR	FIN TUBE RADIATION	VEL	VELOCITY
GAL	GALLON	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	W	WIDTH - OR WATT
HC	HEATING COIL	WI	WITH
HEX	HEAT EXCHANGER	WB	WET BULB
HP	HORSEPOWER	WC	WATER COLUMN
HWR	HOT WATER RETURN	WH	WATER HEATER
HWS	HOT WATER SUPPLY	WPD	WATER PRESSURE DROP
HZ	HERTZ	Ø	DIAMETER
ID	INSIDE DIAMETER		
IN	INCHES		

GENERAL NOTES:

1. PROVIDE MINIMUM TWO WEEKS NOTICE FOR ANY INTERRUPTION OF UTILITIES SERVICE WITH DIRECTOR'S REPRESENTATIVE.
2. FURNISH ALL LABOR AND MATERIALS NECESSARY TO INSTALL AND PLACE INTO OPERATION THE EQUIPMENT AND SYSTEMS DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS FOR A COMPLETE AND OPERATIONAL SYSTEM. REPAIR REUSED EQUIPMENT, CONTROLS AND SYSTEMS SUCH THAT THE EQUIPMENT AND SYSTEMS ARE COMPLETE AND OPERATIONAL.
3. PROVIDE TESTING AND BALANCING FOR THE INDICATED FLOW QUANTITIES AT ALL DEVICES, TERMINAL UNITS, AND EQUIPMENT. SUBMIT THE TESTING AND BALANCING REPORT.
4. STORE AND PROTECT ALL MATERIALS FROM THE ELEMENTS DURING CONSTRUCTION TO PREVENT DAMAGE AND DETERIORATION. KEEP SITE CLEAN OF DEBRIS DUE TO CONSTRUCTION ACTIVITY.
5. DO NOT CUT OR PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY OR LOAD-DEFLECTION RATION. DO NOT CUT OR PATCH OPERATION ELEMENTS AND RELATED COMPONENTS IN A MANNER THAT RESULTS IN A REDUCTION IN THEIR CAPACITY TO PERFORM AS INTENDED.
6. FILL-IN/PATCH PENETRATIONS LEFT BY REMOVALS WITH MATERIALS AND CONSTRUCTION SIMILAR TO THE EXISTING CONSTRUCTION.
7. CRANES AND RIGGING EQUIPMENT FOR REPLACEMENT OF ROOFTOP EQUIPMENT MAY BE STAGED AS SHOWN ON DRAWINGS THE BUILDING PERIMETER. COORDINATE LOCATION WITH DIRECTOR'S REPRESENTATIVE. RESTORE ANY SITE FEATURES (GRASS, SIDEWALKS, ASPHALT, ETC.) DAMAGED BY CRANE OR RIGGING ACTIVITIES.
8. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LOADS. PROVIDE ALL TEMPORARY SHORING, BRACING, AND PROTECTION REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING DURING STAGING, STORAGE, AND TRANSPORT OF EQUIPMENT AND MATERIALS ON THE ROOF. TEMPORARY SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
9. ALL BUILDING WALLS ARE OF CMU CONSTRUCTION AND EXTEND APPROX. 24" ABOVE FINISHED CEILING. UNLESS OTHERWISE NOTED, ROUTE DUCTWORK, PIPING AND CONTROL WIRING ABOVE TOP OF WALLS. ROUTE CONTROL CONDUITS FOR TEMPERATURE SENSORS AND SIMILAR DEVICES EXPOSED ON SURFACE OF CMU WALLS.
10. BOILER ROOM WALLS EXTEND TO THE UNDERSIDE OF ROOF. CORE DRILL OPENINGS FOR PIPE PENETRATIONS IN THESE 8" CMU WALLS.
11. THIS IS AN OCCUPIED FACILITY AND WILL REMAIN IN OPERATION DURING CONSTRUCTION.
12. COORDINATE WITH/DIRECTORS REPRESENTATIVE FOR MOVEMENT OF ALL FURNITURE AND EQUIPMENT NO LESS THAN TWO WEEKS PRIOR TO NEEDING ACCESS IN THAT WORK AREA.
13. ALL DUST AND DEBRIS MADE FROM REMOVALS, CUTTING OR DRILLING SHALL BE VACUUMED AND CLEANED AT THE END OF EACH WORK DAY AND NOT PERMITTED TO BE TRACKED THROUGHOUT THE BUILDING.
14. CLEAN ALL REMAINING DUCT UPON COMPLETION OF PROJECT AND MAINTAIN PROTECTION OF NEWLY INSTALLED DUCT UNTIL COMMENCEMENT OF T & B.
15. PRIOR TO ALL REMOVAL WORK ON ROOF AND OF INTERIOR DUCT CONTRACTOR SHALL WALK WITH DIRECTORS REPRESENTATIVE AND DOCUMENT ANY EXISTING DAMAGES, ISSUES OR CONCERNS
16. INSTALL PIPING CONCEALED ABOVE CEILING AND WITHIN WALL CONSTRUCTION UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING CONFIGURATIONS.
17. FIRESTOP ALL FLOOR AND WALL PENETRATIONS TO MATCH RATING OF ASSEMBLY PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR PARTITION RATINGS.

ELECTRIC HEATER SCHEDULE

TAG	SERVICE	CFM	TEMPERATURE RISE (°F)	KW	VOLTAGE/ PHASE	AMPS	MOUNTING	BASIS OF DESIGN MANUFACTURER & MODEL NO.	REMARKS
CUH-1	RESTROOM	65	23	.50	120/1	4.7	CEILING / SURFACE	QMARK OCH1101F	3,5,6
CUH-2	RESTROOM	65	23	.50	120/1	4.7	CEILING / SURFACE	QMARK OCH1101F	3,5,6
CUH-3	RESTROOM	65	23	.50	120/1	4.7	CEILING / SURFACE	QMARK OCH1101F	3,5,6
CUH-4	VESTIBULE	300	23	3.0	208/1	14.2	CEILING / SURFACE	QMARK CDF548	1,2,3,4

1. SUSPEND FROM CEILING WITH STRUT AND THREADED ROD. 8" AFF. SET INITIAL TEMPERATURE TO 50 DEGREES.
2. PROVIDE T-BAR MOUNTING FRAME KIT.
3. PROVIDE FACTORY MOUNTED LINE VOLTAGE INTEGRAL THERMOSTAT.
4. SET MAXIMUM TEMPERATURE TO 50 DEGREES.
5. PROVIDE AS SURFACE MOUNT.
6. SET INITIAL TEMPERATURE TO 65 DEGREES.

EXHAUST FAN SCHEDULE

TAG	LOCATION	SERVICE	TYPE	DRIVE	CFM	ESP IN W.C.	RPM	ELECTRICAL DATA			BASIS OF DESIGN MANUFACTURER & MODEL NO.	REMARKS
								MOTOR HP	VOLTS	PH.		
EF-1	ROOF	BREAK / STAFF RR	DOWNBLAST	DIRECT DRIVE, ECM	150	.5	1725	.125	115	1	COOK 101 ACED OR70	ALL
EF-2	ROOF	PUBLIC RR	DOWNBLAST	DIRECT DRIVE, ECM	300	.5	2800	.50	115	1	COOK 101 ACED OR70	ALL
EF-3	ROOF	KITCHENETTE / JANITORS	DOWNBLAST	DIRECT DRIVE, ECM	75	.5	1725	.125	115	1	COOK 101 ACED OR70	ALL

1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER
2. PROVIDE AS ECM WITH INTEGRAL FAN SPEED CONTROLLER
3. PROVIDE WITH BIRD SCREEN
4. FAN WILL MOUNT TO EXISTING CURB. COORDINATE FAN FLANGE / CURB ADAPTER (FIELD VERIFY) IF REQUIRED.
5. PROVIDE FACTORY ORIFICE PLATE.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

TAG	TYPE	FACE SIZE	NECK SIZE	PATTERN	MOUNTING	MATERIAL	BASIS OF DESIGN	REMARKS
ER-1	EXHAUST GRILLE	24"X24"	6"	45 DEGREE	SURFACE	STEEL	NAILORS15H	
ER-2	RETURN GRILLE	8"X8"	8X8	45 DEGREE	SURFACE	STEEL	NAILORS15H	
LD-1	LINEAR SUPPLY	6"X48"	8" LINEAR PLENUM	ADJUSTABLE SLOT	LAY-IN	STEEL	NAILOR 59BS	
RR-1	FILTER RETURN GRILLE	24"X24"	24"X24"	45 DEGREE	LAY-IN	STEEL	NAILOR 51FB55	
RR-2	FILTER RETURN GRILLE	24"X12"	24"X12"	45 DEGREE	LAY-IN	STEEL	NAILOR 51FB55	
SD-1	SUPPLY	24X24	SEE PLANS	PLAQUE	LAY-IN	STEEL	NAILOR UNI	
SD-2	SUPPLY	8"X8"	8"X8"	45 DEGREE, DOUBLE DEFLECTION	LAY-IN	STEEL	NAILORS1DH	

DUCTLESS HEAT PUMP SPLIT SYSTEM FANCOIL / CONDENSING UNIT

INTERIOR UNIT										OUTDOOR CONDENSING UNIT												
TAG	SERVICE	STYLE	CFM	MOUNTING	ELECTRICAL			MANUFACTURER	TAG	ELECTRICAL					COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	REFRIGERANT TYPE	REFRIGERANT LBS	MOUNTING	BASIS OF DESIGN MANUFACTURER / MODEL	REMARKS	
								VOLTS	PHASE	HZ												
FC-1	MECHANICAL / SERVER	CASSETTE	275-448	CEILING SUSPENDED	208	1	60	DAIKIN FFOQ18W2VJU8	HPCU-1	208	1	60	11.6	15	9.0-20.2	5.7-23.0	R32	2.49	HEAT PUMP STAND	DAIKIN RX18WMVJU9	ALL	
FC-2	PROGRAM ROOM	LOW PROFILE DUCTED	473-675	CEILING SUSPENDED	208	1	60	DAIKIN FDMQ18RVJU	HPCU-2	208	1	60	19.5	20	9.0-20.2	5.7-23.0	R32	2.49	HEAT PUMP STAND	DAIKIN RXL18QMJU9	ALL	
FC-3	CONFERENCE ROOM	LOW PROFILE DUCTED	332-392	CEILING SUSPENDED	208	1	60	DAIKIN FDMQ12RVJU	HPCU-3	208	1	60	13	15	6.5-13.2	6.3-17.0	R32	2.09	HEAT PUMP STAND	DAIKIN RXL12QMJU9	ALL	

1. SEE DETAILS 3M-005 AND 4M-005 FOR INSTALLATION.
2. INDOOR UNIT IS POWERED FROM EXTERIOR UNIT. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	SERVICE	CFM	ESP	FAN HP	PERFORMANCE		ELECTRICAL DATA			UNIT WEIGHTS (LBS)	BASIS OF DESIGN MANUFACTURER & MODEL NO.	REMARKS
					EFFICIENCY HEATING TOTAL%	EFFICIENCY COOLING TOTAL%	VOLTS	PHASE	FLA			
ERV-1	PROGRAM ROOM	100	.4	.50	71	64	120	1	1.4	35	FANTECH 120E-D-EC	1,2,3,4,5,6
ERV-2	CONFERENCE ROOM	100	.4	.50	71	64	120	1	1.4	35	FANTECH 120E-D-EC	1,2,3,4,5,6

1. PROVIDE MOTORIZED ISOLATION DAMPERS ON OUTSIDE AIR AND EXHAUST AIR AIRSTREAMS.
2. SUSPEND WITH STRUT AND THREADED ROD.
3. PROVIDE WITH 7-DAY DIGITAL PROGRAMMABLE TIMER.
4. PROVIDE WITH VIBRATION ISOLATION KIT.

PACKAGED ELECTRIC ROOFTOP AIR CONDITIONING UNIT SCHEDULE

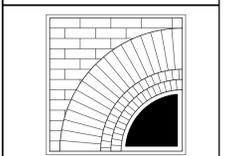
TAG	SERVICE	SUPPLY FAN							DX HEAT PUMP COOLING @ 95 OA					DX HEAT PUMP HEATING @ -5 OA					ELECTRIC HEATING SECTION			ELECTRICAL DATA					BASIS OF DESIGN MANUFACTURER & MODEL NO.	WEIGHT (LB) (UNIT ONLY)	REMARKS		
		TOTAL CFM	O.A. CFM	EXT. S.P.	RPM	MAX. BHP	HP	E.A.T. (DEG. F)		L.A.T. (DEG. F)		CAPACITY (MBH)		E.A.T. (DEG. F)		L.A.T. (DEG. F)		CAPACITY (MBH)		E.A.T. (DEG. F)	L.A.T. (DEG. F)	CAPACITY (MBH)	KW	COMPRESSOR DATA							
									DB	WB	DB	WB	SENS.	TOTAL	F°	F°	F°	F°	F°	F°	NO. COMP.S	REF. TYPE	RLA	VOLTS	PHASE	EER				MCA	MOCP
RTU-1	CHILDRENS LIBRARY	2000	200	1.25	2185	1.09	1.7	77	63.4	53.3	53.3	49.6	56.7	60	72.3	30.8	60	88.3	61.4	18	1	R32	18.4	208	3	12.2	72.0	80	DAIKIN DPHS05B	1276	ALL
RTU-2	STAFF AREA	1200	100	1.25	2206	.61	1.2	77.5	63.8	52.9	52.9	36.7	30.9	60	73.6	20.4	60	91.5	40.9	12	1	R32	15.8	208	3	12.8	49.6	60	DAIKIN DPHS03B	1200	ALL
RTU-3	ROOM 101 / CORE AREA	2000	300	1.25	2185	1.09	1.7	77	63.4	53.3	53.3	49.6	56.7	60	72.3	30.8	60	88.3	61.4	18	1	R32	18.4	208	3	12.2	72.0	80	DAIKIN DPHS05B	1276	ALL
RTU-4	ADULT COLLECTION	1200	150	1.25	2206	.61	1.2	77.5	63.8	52.9	52.9	36.7	30.9	60	73.6	20.4	60	91.5	40.9	12	1	R32	15.8	208	3	13.0	49.6	60	DAIKIN DPHS03B	1200	ALL
RTU-5	MEETING ROOM	1980	350	1.25	2185	1.09	1.7	77	63.4	53.3	53.3	49.6	56.7	58	70.3	30.8	60	88.3	61.4	18	1	R32	18.4	208	3	11.7	72.0	80	DAIKIN DPHS05B	1276	ALL
RTU-6	MEETING ROOM	1950	350	1.25	2185	1.09	1.7	77	63.4	53.3	53.3	49.6	56.7	58	70.3	30.8	60	88.3	61.4	18	1	R32	18.4	3	11.7	72.0	80	DAIKIN DPHS05B	1276	ALL	

1. PROVIDE WITH NON FUSED DISCONNECT.
2. PROVIDE AS VARIABLE VOLUME.
3. PROVIDE 0-100% ECONOMIZER WITH COMPARATIVE ENTHALPHY CONTROL.
4. PROVIDE WITH ECM MOTOR AND PLENUM FAN.
5. PROVIDE WITH FACTORY CURB 20". SEE ACOUSTIC CURB DETAIL FOR INSTALLATION.
6. PROVIDE WITH DEMAND VENTILATION CONTROLS.
7. COORDINATE ROOFTOP FINAL LOCATION AND ORIENTATION WITH ARCHITECT, MECHANICAL AND STRUCTURAL ENGINEERS.

5/20/2025 ISSUED FOR BIDDING

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SCALE: AS SHOWN
JOB NO.: 23-46-06
DATE: 05/20/25

LEGEND, SYMBOLS AND NOTES

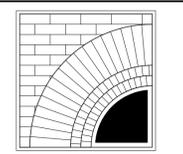
TITLE

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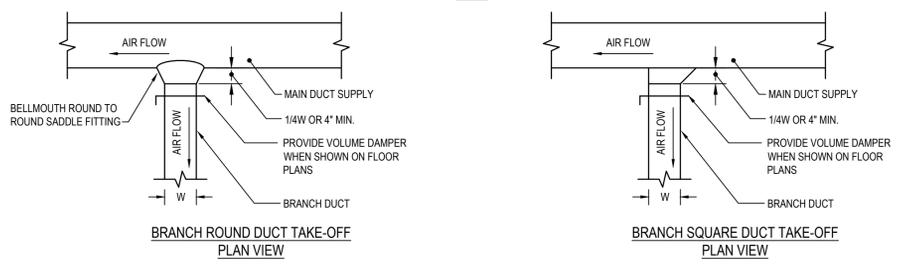
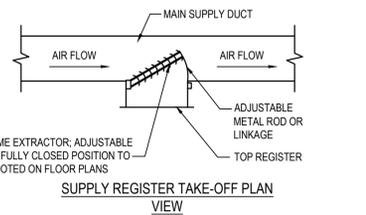
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DETAILS

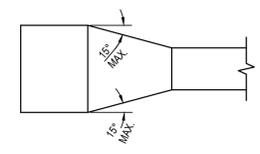
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M002

DWG. NO.



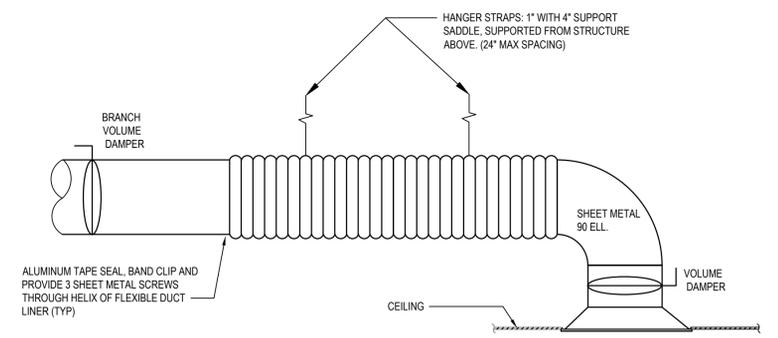
1 SUPPLY DUCTWORK TAKE-OFF DETAILS
SCALE: NTS



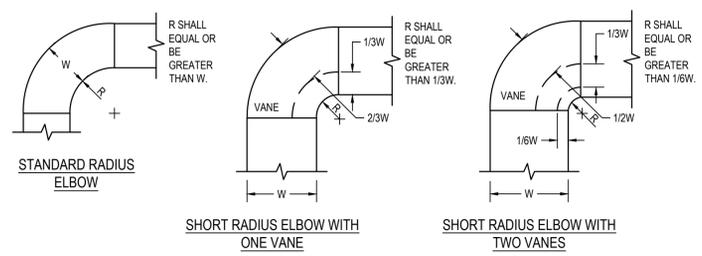
**TYPICAL DUCTWORK TRANSITION
PLAN OR SIDE VIEW**

NOTE:
1. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

3 DUCTWORK TRANSITION DETAILS
SCALE: NTS

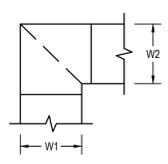


5 REGISTER, DIFFUSER, GRILLE AND DUCT CONNECTION DETAIL
SCALE: NTS



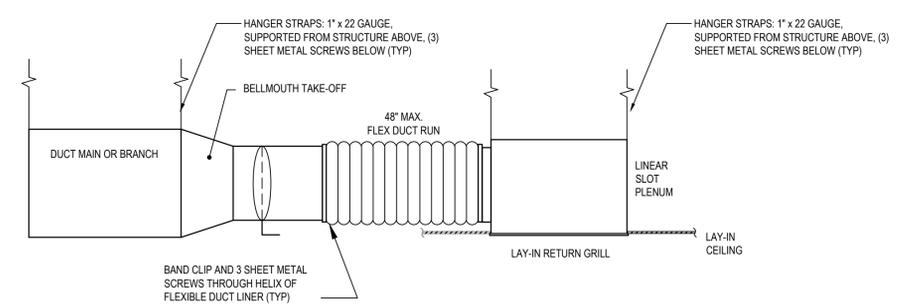
NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

2 DUCTWORK RADIUS ELBOW DETAILS
SCALE: NTS



NOTE:
1. ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

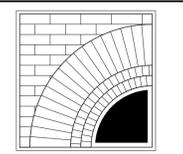
4 SQUARE VANE ELBOW DETAIL
SCALE: NTS



6 RETURN GRILLE CONNECTION DETAIL
SCALE: NTS

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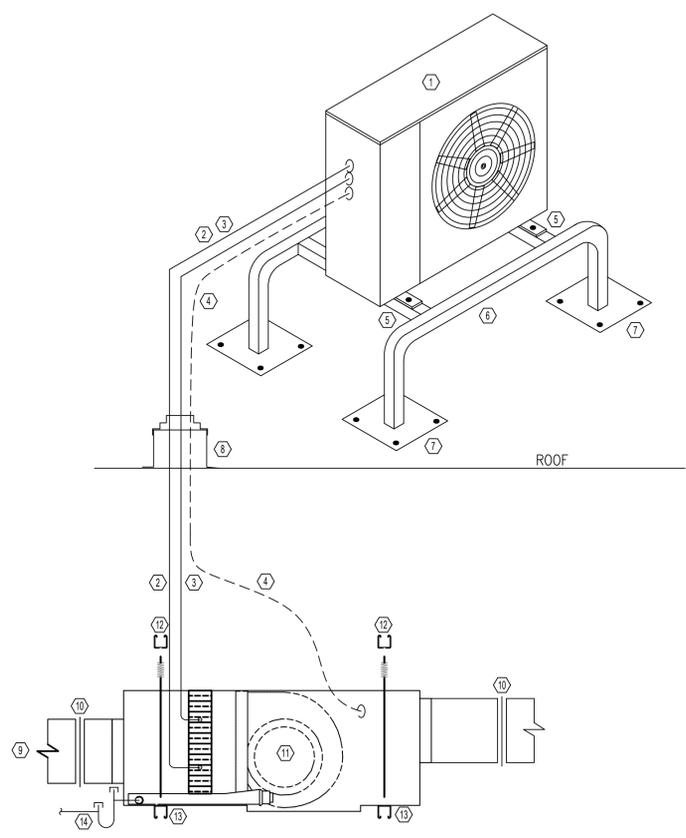
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DETAILS

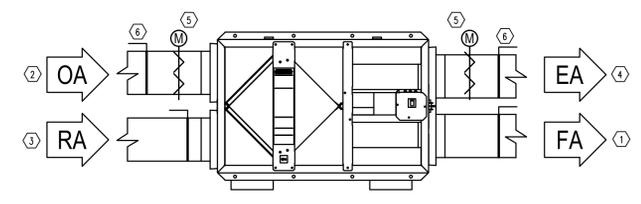
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M003
DWG. NO.



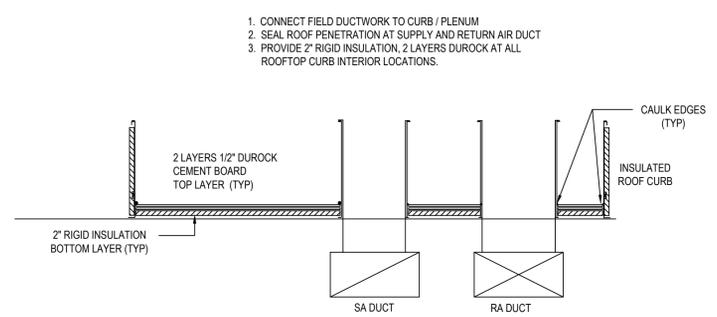
- ① HEAT PUMP CONDENSING UNIT
- ② REFRIGERANT LIQUID LINE (TYPE L DRAWN TEMPER COPPER WITH ELASTOMERIC INSULATION)
- ③ REFRIGERANT SUCTION LINE (TYPE L DRAWN TEMPER COPPER WITH ELASTOMERIC INSULATION)
- ④ CONTROL WIRING/POWER WIRING FROM CONDENSER TO FAN COIL.
- ⑤ CONDENSING UNIT ANCHOR POINT (ANCHOR TO EQUIPMENT STAND TYP 4)
- ⑥ HEAT PUMP STAND (MIN 16" AFG) . DIVERSITECH QSMS SERIES OR EQUAL
- ⑦ ANCHOR TO ROOF (TYP 16). PROVIDE ROOF PATCH AND SEAL. (WARRANTED ROOF)
- ⑧ PROVIDE ROOF PENETRATION AND WEATHERPROOF EDPM BOOT
- ⑨ SUPPLY DUCT
- ⑩ FLEX COLLAR
- ⑪ HEAT PUMP DUCTED FAN/COIL UNIT
- ⑫ 3/8" THREADED ROD SUPPORT TO STRUCTURE (BAR JOIST) WITH STRUT (TYP 4)
- ⑬ FAN/COIL SUPPORT STRUTS (TYP 2)
- ⑭ CONDENSATE PIPING / TRAP. PIPE TO EXTERIOR LOCATION (SEE DWG)
PROVIDE CONDENSATE PUMP IF REQUIRED TO MEET MIN. DRAINAGE PITCH

1 DUCTED HEAT PUMP SPLIT DETAIL
M003 SCALE: NONE



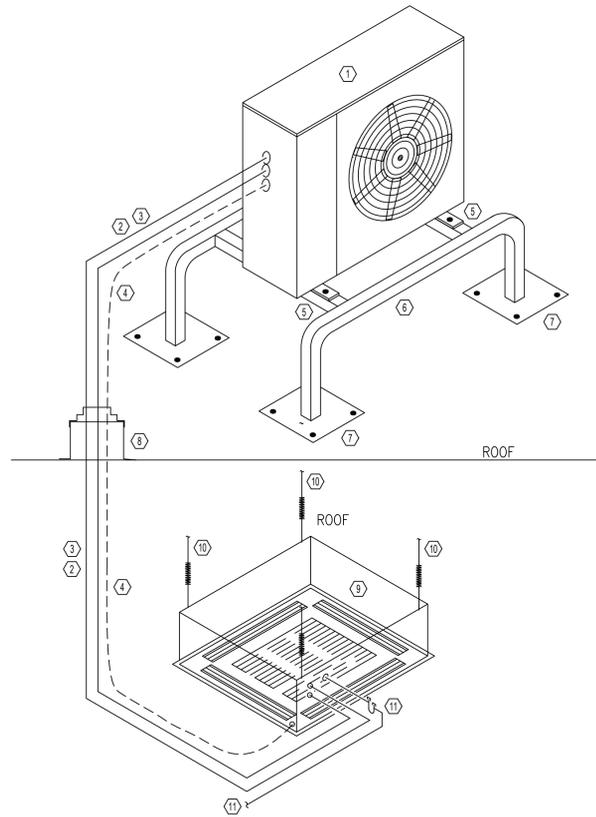
- ① FRESH AIR TO SPACE.
- ② OUTDOOR AIR INTAKE
- ③ RETURN FROM SPACE.
- ④ EXHAUST AIR TO EXTERIOR.
- ⑤ MOTORIZED SHUT-OFF DAMPER. INTERLOCK WITH ERV OPERATION. DAMPER N.O. UPON ERV ENABLE.
- ⑥ VOLUME DAMPER (TYP 4)

2 ENERGY RECOVERY VENTILATOR DETAIL (TYP)
M003 SCALE: NONE



- 1. CONNECT FIELD DUCTWORK TO CURB / PLENUM
- 2. SEAL ROOF PENETRATION AT SUPPLY AND RETURN AIR DUCT
- 3. PROVIDE 2" RIGID INSULATION. 2 LAYERS DUROCK AT ALL ROOFTOP CURB INTERIOR LOCATIONS.

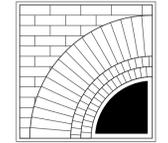
3 ACCOUSTICAL ROOF CURB DETAIL (TYP)
M003 SCALE: NONE



- ① HEAT PUMP CONDENSING UNIT
- ② REFRIGERANT LIQUID LINE (TYPE L DRAWN TEMPER COPPER WITH ELASTOMERIC INSULATION)
- ③ REFRIGERANT SUCTION LINE (TYPE L DRAWN TEMPER COPPER WITH ELASTOMERIC INSULATION)
- ④ CONTROL WIRING/POWER WIRING FROM CONDENSER TO FAN COIL.
- ⑤ CONDENSING UNIT ANCHOR POINT (ANCHOR TO EQUIPMENT STAND TYP 4)
- ⑥ HEAT PUMP STAND (MIN 16" AFG) . DIVERSITECH QSMS SERIES OR EQUAL
- ⑦ ANCHOR TO ROOF (TYP 16). PROVIDE ROOF PATCH AND SEAL. (WARRANTED ROOF)
- ⑧ PROVIDE ROOF PENETRATION AND WEATHERPROOF EDPM BOOT
- ⑨ HEAT PUMP CASSETTE FAN/COIL
- ⑩ 3/8" THREADED ROD SUPPORT TO STRUCTURE (BAR JOIST) WITH STRUT (TYP 4)
- ⑪ CONDENSATE PIPING / TRAP. PIPE DRAIN TO EXTERIOR LOCATION.

4 DUCTLESS (CASSETTE) HEAT PUMP SPLIT DETAIL
M003 SCALE: NONE

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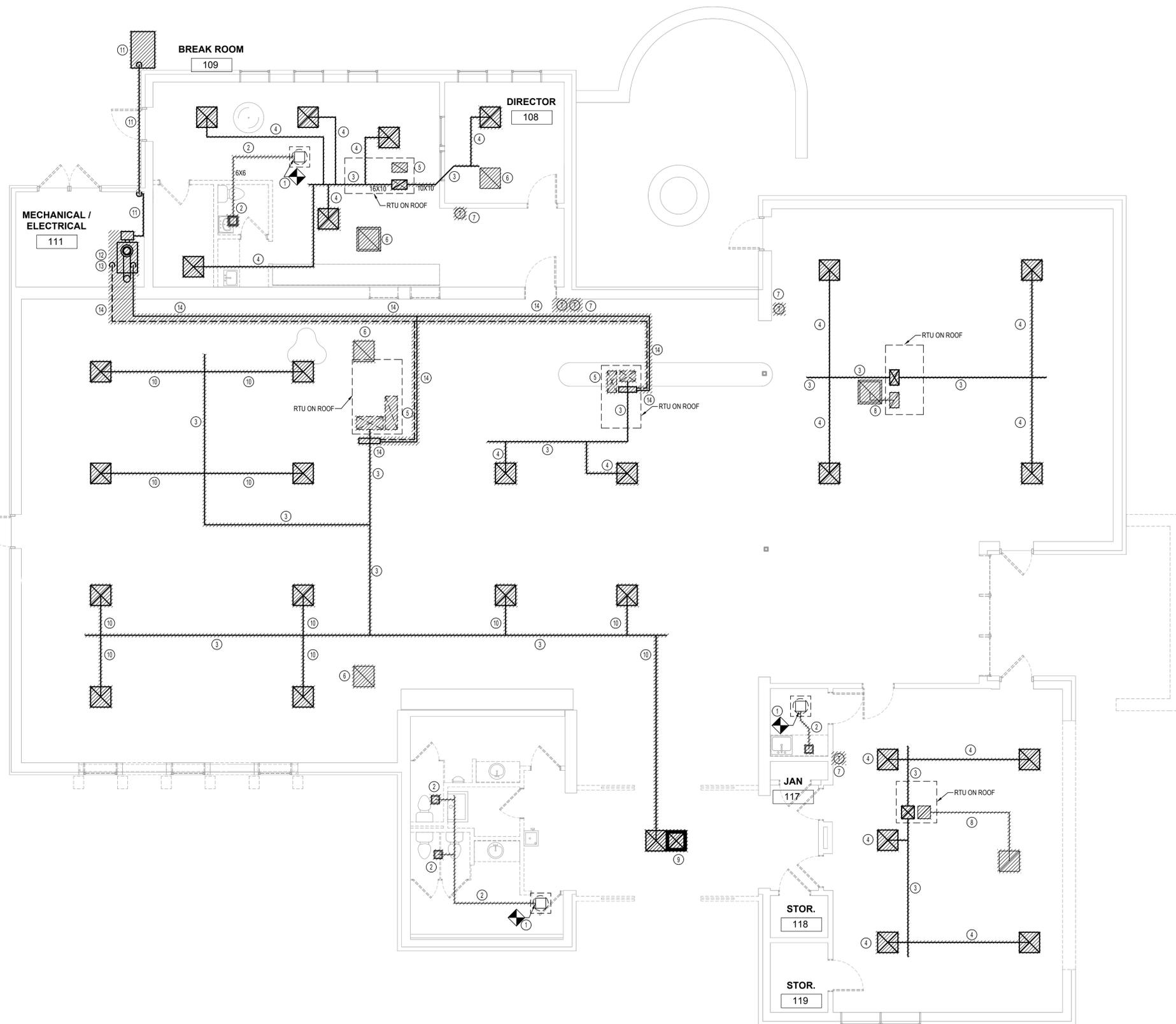
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**REMOVALS
PLAN**

TITLE

MR101

DWG. NO.

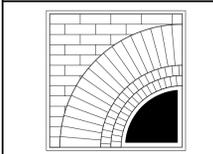


KEYED NOTES:

- ① DISCONNECT POINT FOR EXHAUST DUCT WORK. DUCT RISER TO FAN ASSEMBLY ON ROOF REMAINS IN PLACE.
- ② REMOVE EXHAUST DUCTWORK, INSULATION, SUPPORTS, AND REGISTER GRILL.
- ③ REMOVE SUPPLY MAIN DUCT TRUNK, SUPPORTS, AND INSULATION.
- ④ REMOVE SUPPLY DUCT BRANCH DUCT, SUPPORTS, INSULATION, FLEX DUCT AND DIFFUSERS.
- ⑤ REMOVE RETURN DUCT RISER, SUPPORTS AND INSULATION UP TO ROOFTOP UNIT CURB.
- ⑥ REMOVE RETURN REGISTER AND SUPPORTS.
- ⑦ REMOVE THERMOSTAT AND CONTROL WIRING TO ROOF TOP UNIT.
- ⑧ REMOVE RETURN REGISTER, RETURN DUCT WORK, SUPPORTS, INSULATION AND DUCT RISER TO ROOF TOP UNIT.
- ⑨ REMOVE CEILING MOUNTED ELECTRIC CABINET HEATER.
- ⑩ REMOVE SUPPLY DUCT BRANCH TAKEOFF AND DAMPER, DUCT, INSULATION AND SUPPORTS. PATCH AND SEAL OPENINGS IN MAIN SUPPLY TRUNK NOT REUSED IN FUTURE INSTALLATION. SEE M-101
- ⑪ REMOVE EXTERIOR ROTH DOUBLE WALL 275 GALLON OIL TANK. REMOVE OIL AS PER EPA GUIDELINES. (APPROX 100 GALLONS). REMOVE OIL PIPING AND SUPPORTS FROM EXTERIOR OIL TANK TO OIL BURNER IN MECHANICAL ROOM.
- ⑫ REMOVE OIL BOILER AND BURNER. REMOVE HWS AND HWR PIPING, PIPE INSULATION AND SUPPORTS FROM BOILER THRU WALL TO LIBRARY SPACE. REMOVE HEATING SYSTEM PUMPS AND HYDRONIC ACCESSORIES.
- ⑬ REMOVE BOILER BREECHING TO CHIMNEY. REMOVE CHIMNEY UP THRU ROOF. SEE MR-102 FOR ROOF REMOVALS AND PATCHING.
- ⑭ REMOVE HWS AND HWR PIPING AND INSULATION. REMOVE PIPING SUPPORTS. REMOVE ZONE CONTROL VALVES, AND HOT WATER COIL. REMOVE HYDRONIC ACCESSORIES.

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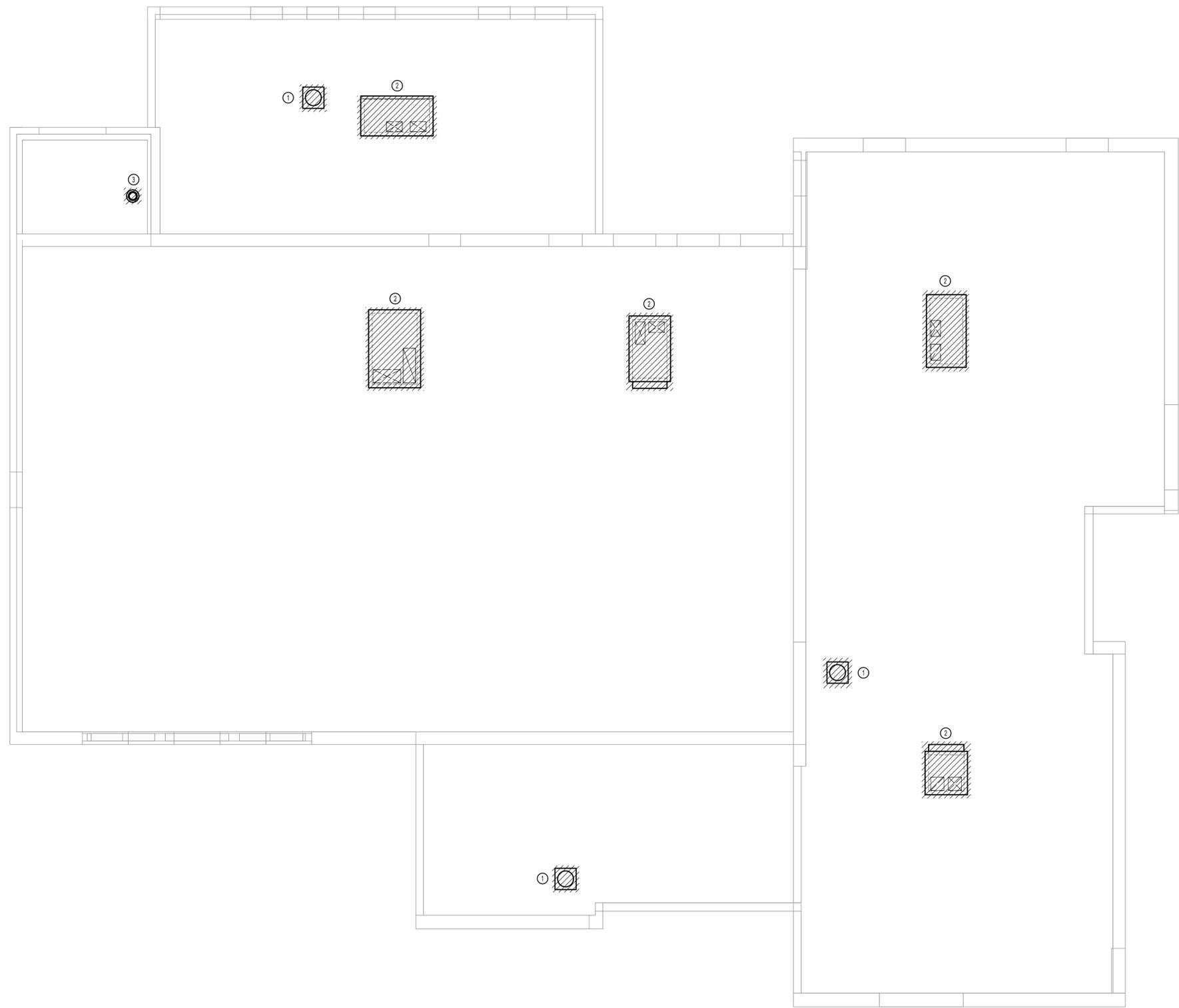
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DATE: 05/20/25

**ROOF
REMOVALS
PLAN**

TITLE

MR102

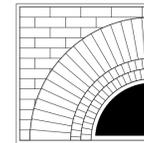
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KEYED NOTES:

- ① REMOVE FAN ASSEMBLY. FAN CURB IS TO REMAIN IN PLACE. PROVIDE TEMPORARY WEATHERPROOFING OF OPENING. SEE M-102 FOR FAN REPLACEMENT.
- ② REMOVE ROOF TOP UNIT AND DISCARD. RECOVER REFRIGERANT AS PER EPA GUIDELINES. REMOVE CURB. PROVIDE TEMPORARY WEATHERPROOFING OF OPENING. SEE M-102 FOR ROOF TOP UNIT REPLACEMENT. SEE ARCHITECTURAL DRAWINGS FOR WARRANTED ROOF PATCH AND SEAL DETAILS.
- ③ REMOVE OIL CHIMNEY SERVING OIL FIRED BOILER. SEE ARCHITECTURAL DRAWINGS FOR WARRANTED ROOF PATCH AND SEAL DETAILS.

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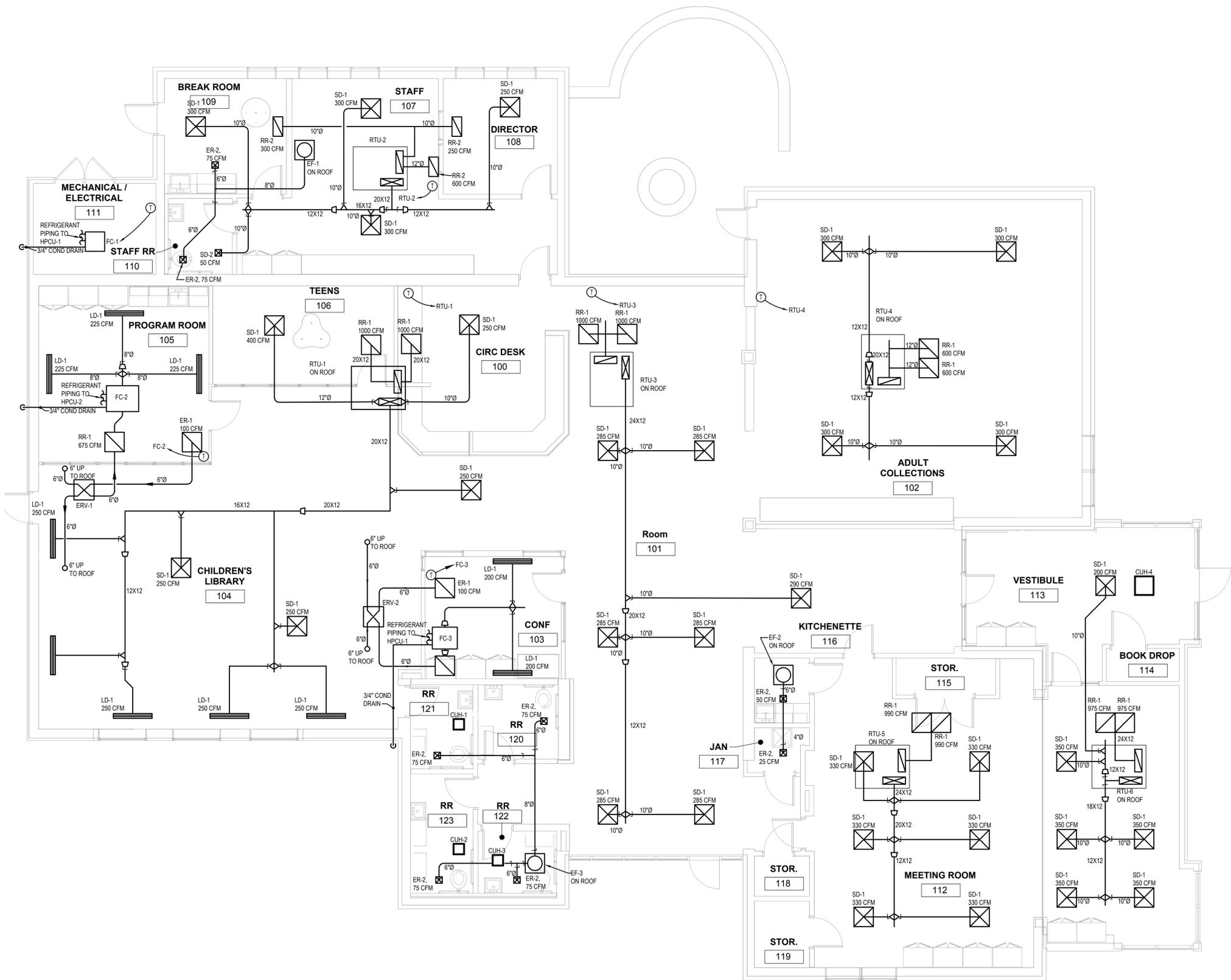
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DATE: 05/20/25

**HVAC
INSTALLATION
PLAN**

TITLE

M101

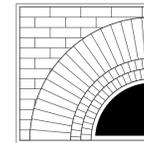
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1 HVAC INSTALLATION PLAN
3/16" = 1'-0"

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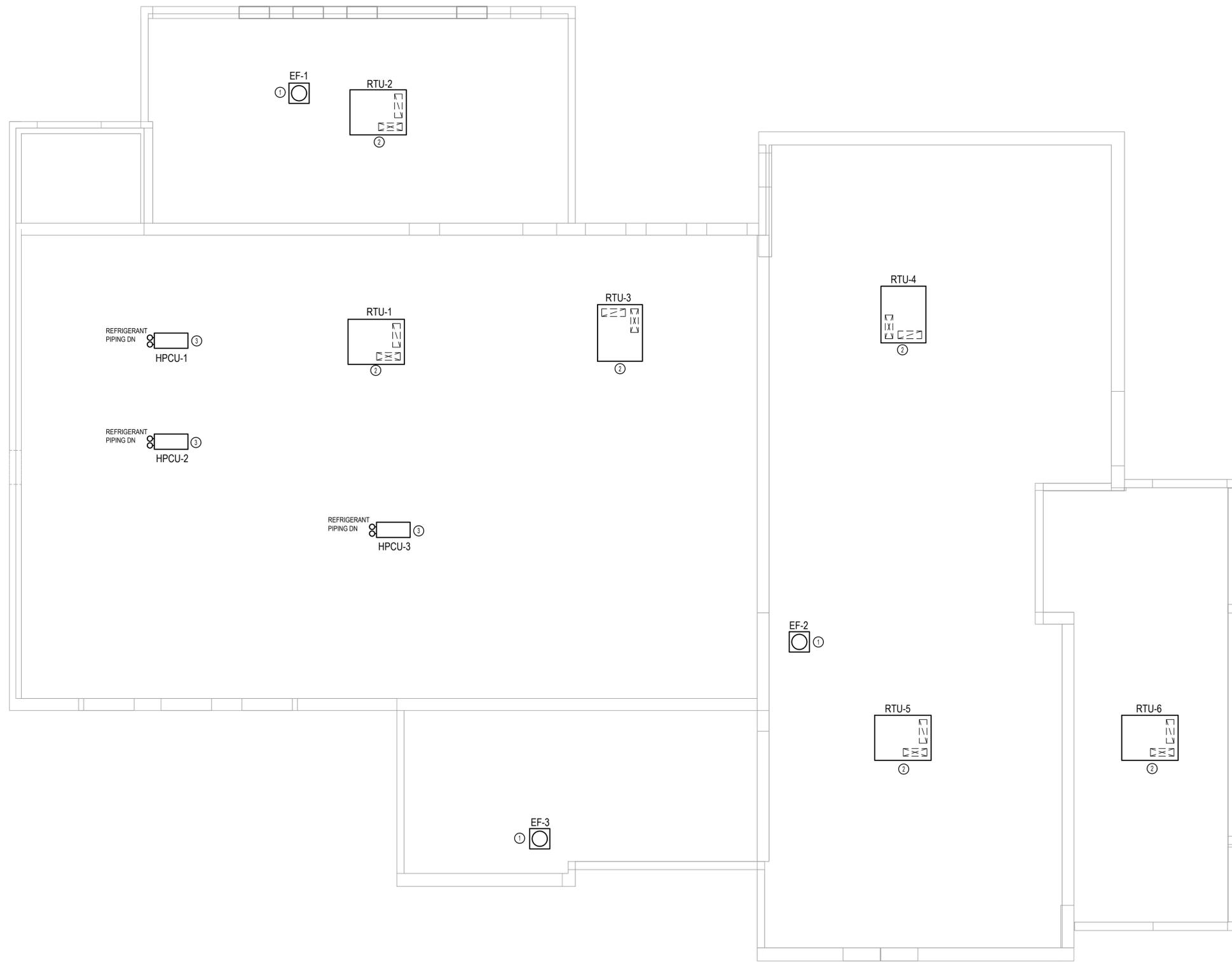
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DATE: 05/20/25

**HVAC ROOF
INSTALLATION
PLAN**

TITLE

M102

DWG. NO.



KEYED NOTES:

- ① INSTALL FAN ON EXISTING CURB. PROVIDE CURB ADAPTER IF REQUIRED. SEAL AND WEATHERPROOF CONNECTION POINT
- ② INSTALL ROOF CURB AND ROOF TOP UNIT AT LOCATION SHOWN. COORDINATE WITH ARCHITECT. MECHANICAL AND STRUCTURAL ENGINEERS FOR FINAL LOCATION AND ORIENTATION. EXISTING ROOF IS WARRANTED.
- ③ INSTALL HPCU'S AT LOCATION SHOWN. SEE INSTALLATION DETAIL 1/M003. COORDINATE ROOF PENETRATIONS AND SUPPORT STAND ANCHORING AND SEALING WITH ARCHITECT AND GC.

ABBREVIATIONS: (SOME MAY NOT BE USED)

A AMP	DSP GARBAGE DISPOSAL	HH HAND HOLE	NE NATIONAL ELECTRIC CODE
AC ABOVE COUNTER	DW DISHWASHER	HOA HAND-OFF-AUTO SWITCH	NIC NIGHT LIGHT
ACC AIR COOLED CONDENSING UNIT	DWG DRAWING	HP HORSEPOWER	NO/NC NORMALLY OPEN/NORMALLY CLOSED
ACP ACCESS CONTROL PANEL	ECB ELECTRICAL CONTRACTOR	HVAC HEATING, VENTILATION AND/OR AIR CONDITIONING	OEM ORIGINAL EQUIPMENT MANUFACTURER
AFCI ARC FAULT CIRCUIT INTERRUPTER	EM ENCLOSED CIRCUIT BREAKER	IG ISOLATED GROUND	OLS ORIGINAL OVERLOAD SWITCH
AFB ABOVE FINISHED FLOOR	EM EMERGENCY	IN INCHES	P POLE
AFG ABOVE FINISHED GRADE	EMT ELECTRICAL METALLIC TUBING	INT INTERNAL	PC PHOTOCELL
AHU AIR HANDLING UNIT	ELU EMERGENCY LIGHTING UNIT	IT INFORMATION TECHNOLOGIES	PE PHOTO EYE
AWG AMERICAN WIRE GAGE	ES ELECTRIC STRIKE	JB JUNCTION BOX	PH PHASE
BFG BELOW FINISHED GRADE	EXR EXISTING TO REMAIN	K KILO	PV POST INDICATING VALVE
BLDG BUILDING	FA FIRE ALARM	KVA KILO-VOLT AMPERE	POE POWER OVER ETHERNET
BTU BRITISH THERMAL UNITS	FAAP FIRE ALARM ANNUNCIATOR PANEL	KW KILOWATT	PR PAIR
C CONDUIT	FACP FIRE ALARM CONTROL PANEL	LBS POUNDS	PVC POLYVINYL CHLORIDE
CAT CATEGORY	FTC FIBER OPTIC CABLE CROSS CONNECT CABINET	LV LOW VOLTAGE	RAF RETURN AIR FAN
CB CIRCUIT BREAKER	FLA FULL LOAD AMPS	MAX MAXIMUM	RECEPT RECEPTACLE
CFM CUBIC FEET PER MINUTE	FLR FLOOR	MC METAL CLAD CABLE	RVCC REMOTE VOICE COMMAND CENTER
CKT CIRCUIT	FT FEET	MCB MAIN CIRCUIT BREAKER	REL RELOCATE
COMM COMMUNICATION	FTL FEED THRU LUGS	MDP MAIN DISTRIBUTION PANEL	REM REMOVE
CONT. CONTINUED	FVNR FULL VOLTAGE NON-REVERSING	MH MOUNTING HEIGHT	REPLACE REPLACE
CT CURRENT TRANSFORMER	G GROUND	MIN MINIMUM	RGS RIGID GALVANIZED STEEL
CJ COPPER	GC GENERAL CONTRACTOR	MLO MAIN LUGS ONLY	RPM REVOLUTIONS PER MINUTE
CUH CABINET UNIT HEATER	GFI GROUND FAULT CIRCUIT INTERRUPTER	MM MULTIMODE FIBER OPTIC CABLE	SF SUPPLY AIR FAN
CVT CONTROL VOLTAGE TRANSFORMER	GMF GALLONS PER MINUTE	MS MOTOR STARTING	SCH SCHEDULE
DDC DIRECT DIGITAL CONTROL	H HEIGHT	MTG MOUNTING	SER SERVICE ENTRANCE RATED
DLC DESIGN LIGHTS CONSORTIUM	HC HANDICAP ACCESSIBLE		SPD SURGE PROTECTIVE DEVICE

SYMBOLS LEGEND:

	SURFACE MOUNTED PANEL
	RECESSED PANEL
	JUNCTION BOX
	HOME RUN TO PANEL. 2#12, #12G, 3/4" UNLESS OTHERWISE NOTED. PROVIDE SEPARATE GROUND AND NEUTRAL FOR EACH BRANCH CIRCUIT. X-Z, Y INDICATES PANEL. Z, Y-INDICATES CIRCUIT NUMBERS
	CIRCUIT CONTINUATION WITH "Y" INDICATING DEVICE OR AREA DESCRIPTION. "X" INDICATES PANEL. X-Z, Y INDICATES CIRCUIT NUMBERS
	CIRCUIT CONSISTING OF GROUND, NEUTRAL AND PHASE CONDUCTORS. ADDITIONAL SLASH MARKS INDICATE SWITCHING OR TRAVELER CONDUCTORS, AND A LONG SOLID LINE INDICATES NEUTRAL. A SEPARATE GREEN GROUND CONDUCTOR SHALL BE PLACED IN ALL NEW CIRCUITS
	CONNECTION POINT
	CAPPED CONDUIT
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	LINE TYPE SHOWING WIRING BETWEEN LOW VOLTAGE DEVICES
	S SINGLE POLE SWITCH. 20 AMP 120/277 UNLESS NOTED OTHERWISE. 'P' INDICATES PILOT SWITCH. 'P' INDICATES PILOT LIGHT. 'MS' INDICATES 1HP RATED GENERAL USE 'SNAP SWITCH' WITH OVERLOADS SIZED FOR EQUIPMENT AND LOCKABLE HASP. '3MS' INDICATES 3 POLE 600 VOLT 30 AMP 3HP RATED MANUAL MOTOR STARTER WITH LOCKABLE HASP. 'WP' INDICATES WEATHER PROOF. '3' INDICATES THREE WAY SWITCH. '4' INDICATES FOUR WAY SWITCH. 'K' INDICATES KEYSWITCH. 'LV' INDICATES LOW VOLTAGE MOMENTARY SWITCH. 'LV6' INDICATES LOW VOLTAGE MULTIFUNCTION DIMMING SWITCH, 6-BUTTON. 'VS' INDICATES VACANCY SENSOR SWITCH. 'YS2' INDICATES 2 POLE WALL MOUNTED VACANCY SENSOR SWITCH. 'D' INDICATES DIMMER SWITCH. 'LVD' INDICATES LOW VOLTAGE MULTIFUNCTION DIMMING SWITCH. 'VSD' INDICATES DIMMING VACANCY SENSOR SWITCH. 'SP' INDICATES SPEAKER CONTROL.
	NEMA 1 NON-FUSED DISCONNECT UON. 'XX' INDICATES DISCONNECT SIZE. 'Y' NUMBER OF POLES.
	NEMA 1 FUSED DISCONNECT UON. 'XX' INDICATES DISCONNECT SIZE. 'Y' NUMBER OF POLES. 'ZZ' FUSE SIZE.
	COMBINATION MOTOR STARTER, SIZE AS INDICATED. 'XX' INDICATES DISCONNECT SIZE. 'Y' NUMBER OF POLES. 'ZZ' FUSE SIZE. 'NF' NON-FUSED.
	VARIABLE FREQUENCY DRIVE. HP AS INDICATED.
	COMBINATION NON-FUSED DISCONNECT VARIABLE FREQUENCY DRIVE. HP AS INDICATED.
	DUPLEX RECEPTACLE. 'GFI' INDICATES GROUND FAULT CIRCUIT INTERRUPTER. 'AFI' INDICATES ARC FAULT CIRCUIT INTERRUPTER. 'WP' WEATHER-PROOF. 'AC' INDICATES ABOVE COUNTER, VERIFY HEIGHT. 'SR' INDICATES SURFACE RACEWAY.
	ABOVE COUNTER GFI DUPLEX RECEPTACLE, VERIFY HEIGHT.
	QUADRUPLEX RECEPTACLE.
	SIMPLEX RECEPTACLE.
	SPECIAL RECEPTACLE, TYPE AS INDICATED.
	DUPLEX RECEPTACLE WITH 2-USB CHARGING PORTS, 3.6 AMP SMART OUTPUT. LEVITON T5832 OR EQUAL.
	Ceiling mounted duplex receptacle. 'DC' INDICATES DROP CORD.
	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE.
	FLUSH FLOOR MOUNTED QUADRUPLEX RECEPTACLE.
	TELEPHONE OUTLET MOUNTED AT 48" UON WITH 1" CONDUIT UP TO ABOVE CEILING. 1-PORT IN FACEPLATE UON. PROVIDE 1-CAT 6 CABLE UON.
	DATA OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. 1-PORT IN FACEPLATE UON. PROVIDE 1-CAT 6 CABLE UON.
	TELEDATA OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. 2-PORTS IN FACEPLATE. PROVIDE 2-CAT 6 CABLES.
	Ceiling mounted data outlet. 1-PORT IN FACEPLATE UON. PROVIDE 1-CAT 6 CABLE UON.
	FLUSH FLOOR MOUNTED DATA OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. 2-PORTS IN FACEPLATE UON. PROVIDE 2-CAT 6 CABLE UON.
	Ceiling mounted wifi antenna. PROVIDE CABLE ABOVE CEILING. PROVIDE 1 CAT 6 CABLE WITH 10' SERVICE LOOP. FOR NON-ACCESSIBLE CEILING, INSTALL LOW VOLTAGE RING WALL MOUNTED AT 84" UON.
	WALL MOUNTED 4" SQUARE JUNCTION BOX, EXTRA DEEP FOR AV CABLE PROVIDE 2-1 1/2" CONDUITS TO ABOVE.
	Ceiling ceiling mounted 4" SQUARE JUNCTION BOX, EXTRA DEEP FOR AV CABLE PROVIDE 2-1" CONDUITS TO ABOVE CEILING.
	FLUSH FLOOR MOUNTED 4" SQUARE FLOOR BOX, EXTRA DEEP FOR AV CABLE PROVIDE 2-1 1/2" CONDUITS TO ABOVE CEILING.
	CABLE TV OUTLET WITH 1" CONDUIT UP TO ABOVE CEILING. 1 PORT IN FACEPLATE. PROVIDE 1 RG-6U COAXIAL CABLE.

ELECTRICAL SPECIFICATIONS:

GENERAL:
 1. ALL WORK SHALL BE DONE AS PER THE 2017 NATIONAL ELECTRICAL CODE, 2016 NATIONAL FIRE ALARM AND SIGNALING CODE, AND 2020 BUILDING CODE OF NEW YORK STATE AND ALL AMENDMENTS ADOPTED BY NEW YORK STATE, AND 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

FASTENINGS, SUPPORTS, AND HANGERS
 1. ALL PARTS OF THE ELECTRICAL INSTALLATION SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING CONSTRUCTION USING APPROVED CLAMP SCREWS WITH THE INSERTS OF EXPANSION ANCHORS, EXPANSION BOLTS AND TOGGLE BOLTS * IN NO CASE SHALL THE HUNG CEILING MEMBERS OR WIRES BE USED TO SUPPORT CONDUIT*.

2. FURNISH 12 GAUGE GALVANIZED STEEL CHANNEL AND ACCESSORIES AS MANUFACTURED BY KINDORF ELEC.; B-900 (12" X 12"), B-901 (12" X 14"), B-902 (12" X 3") OR APPROVED EQUAL.

CONDUIT:
 1. ALL WIRING SHALL BE INSTALLED CONCEALED, WHERE POSSIBLE, USING EMT ABOVE 10 FEET. WHERE BELOW 10 FEET AND SUBJECT TO DAMAGE USE RIGID GALVANIZED STEEL CONDUIT.
 2. CONDUIT FITTINGS SHALL BE STEEL, COMPRESSION TYPE.
 3. MINIMUM SIZE SHALL BE 1/2".
 4. ALL CONDUITS SHALL BE RUN PARALLEL AND/OR PERPENDICULAR TO WALLS AND CEILINGS SUPPORT
 5. LIQUID TIGHT FLEXIBLE METAL CONDUIT MAY BE USED FOR FINAL CONNECTION NOT EXCEEDING 36" IN LENGTH.

METAL-CLAD CABLE:
 1. METAL-CLAD CABLE MAY BE USED AS FIXTURE WHIPS. MAXIMUM LENGTH 6' AND WHERE CONDUCTORS MUST BE 'FISHED' THROUGH WALLS. MINIMUM WIRE SIZE SHALL BE #12 AWG.

BOXES:
 1. ALL BOXES SHALL BE STAMPED STEEL TYPE, 4" X 4" X 2 1/8" DEEP.
 2. PULL BOXES SHALL STEEL WITH SCREW COVERS.
 3. BOX DEVICE COVERS USED IN UNFINISHED AREAS SHALL BE RAISED STEEL.
 4. JUNCTION AND PULL BOXES LOCATED OUTDOORS AND IN DAMP LOCATIONS SHALL BE GALVANIZED CAST IRON WITH THREADED HUBS AND GASKETS.

WIRE AND CABLE:
 1. ALL WIRE SHALL BE COPPER, RATED 600 VOLTS, TYPE THWN OR THHW MINIMUM SIZE #12 FOR BRANCH CIRCUIT WIRING AND MINIMUM SIZE #14 FOR CONTROL WIRING, UNLESS OTHERWISE SPECIFIED. FOR EXTERIOR APPLICATIONS INSULATION TYPE XHHW.
 2. WIRE #10 AWG AND SMALLER SHALL BE SOLID, WIRE # 8 AWG AND LARGER SHALL BE SINGLE CONDUCTOR STRANDED.
 3. WIRING SHALL BE CONSISTENTLY COLOR CODED THROUGHOUT. FOR 120/208 VOLT SYSTEMS: RED, BLUE, BLACK FOR LINE (PHASE) CONDUCTORS AND WHITE FOR NEUTRAL CONDUCTOR, SWITCH LEG SHALL BE SEPARATELY IDENTIFIED. FOR 277/480 VOLT SYSTEMS: BROWN, ORANGE, YELLOW FOR LINE (PHASE) CONDUCTORS AND GRAY FOR NEUTRAL CONDUCTOR, SWITCH LEG SHALL BE SEPARATELY IDENTIFIED.
 4. GROUND CONDUCTORS SHALL BE GREEN.
 5. NO COMMON NEUTRALS ARE ALLOWED.

WIRING DEVICES:
 1. ALL WIRING DEVICES SHALL BE RATED 20AMP, SPECIFICATION GRADE, COLOR TO MATCH EXISTING. NYLON COVER PLATES.

SAFETY SWITCHES:
 1. SAFETY SWITCHES SHALL BE OF SIZE NOTED ON THE DRAWING, OR AS REQUIRED, FUSIBLE OR NON-FUSIBLE AS INDICATED. ALL SWITCHES SHALL BE HEAVY DUTY TYPE AND SHALL HAVE QUICK-MAKE, QUICK-BREAK MECHANISM.
 2. ALL SWITCHES SHALL BE OF PROPER HORSEPOWER RATING AS APPLICABLE AND HAVE DUAL INTERLOCKS DESIGNED TO INTERLOCK THE SWITCH BOX DOOR WITH THE SWITCH OPERATING MECHANISM.

SURFACE RACEWAY:
 1. STEEL SINGLE CHANNEL ONE PIECE FOR POWER CIRCUITS, DATA CABLES, OR FIRE ALARM. WIREMOLD V500 OR V700. IVORY OR WHITE AS DIRECTED.
 2. STEEL DUAL CHANNEL TWO PIECE FOR POWER CIRCUITS AND DATA INCLUDING DEVICES. WIREMOLD 4000. IVORY OR GRAY AS DIRECTED.

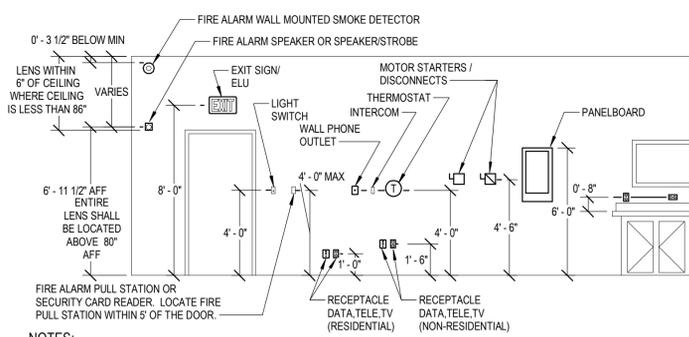
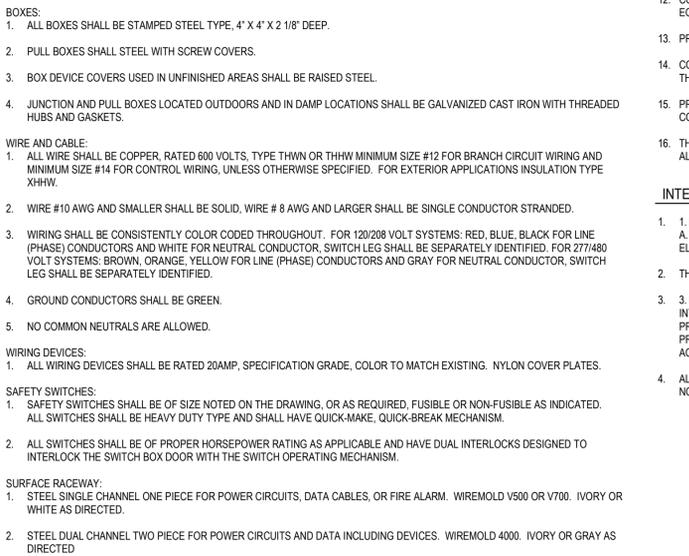
GENERAL NOTES:

- REPAIR ALL SURFACES DISTURBED AS PART OF THIS WORK TO MATCH EXISTING CONDITIONS.
- REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS TO DETERMINE THE AREAS TO BE DEMOLISHED AND THE EXTENT OF THIS DEMOLITION. COOPERATE FULLY WITH THE ARCHITECT.
- REMOVE ALL BRANCH CIRCUIT CONDUCTORS AND CONDUIT, WHICH SERVE AREAS TO BE DEMOLISHED, BACK TO THE ELECTRICAL PANELBOARDS.
- REMOVE BOXES, LIGHT FIXTURES, AND WIRING DEVICES IN AREAS TO BE DEMOLISHED.
- EXTEND CONDUITS AND CONDUCTORS TO MAINTAIN ELECTRICAL CONTINUITY OF ELECTRICAL EQUIPMENT SERVING AREAS NOT DEMOLISHED AS REQUIRED. THIS APPLIES TO BOTH POWER AND COMMUNICATIONS CIRCUITS.
- LOCATIONS BASED UPON AVAILABLE DOCUMENTATION AND CASUAL FIELD OBSERVATION. CONFIRM ALL LOCATIONS WITH FIELD OBSERVATIONS, MEASUREMENTS AND INVESTIGATION.
- PROVIDE LIFTS, LADDERS AND OTHER EQUIPMENT REQUIRED TO GAIN ACCESS FOR ALL ELEVATED WORK. OWNER'S LIFTS AND LADDERS SHALL NOT BE USED.
- PROVIDE ACCURATE, TYPED, PANEL DIRECTORY FOR ALL PANELS INSTALLED OR MODIFIED AS PART OF THE WORK.
- PROVIDE CIRCUIT BREAKERS LISTED/LABELLED FOR EXISTING PANELS TO SUPPLY BRANCH CIRCUITS.
- FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND FLOOR WITH A LISTED FIRESTOP METHOD MATCHING THE F AND T RATINGS OF THE PENETRATED MEDIUM.
- SEAL ALL PENETRATIONS THROUGH EXTERIOR WALLS OR THROUGH WALLS OR ROOFS SUBJECT TO MOISTURE.
- COORDINATE WITH OTHER TRADES LOCATIONS OF DISCONNECTS, MOTOR CONTROLLERS AND OTHER ELECTRICAL EQUIPMENT TO PROVIDE REQUIRED CLEARANCES.
- PROVIDE BRANCH CIRCUIT TO TERMINALS OF MECHANICAL EQUIPMENT AND MAKE TERMINATIONS.
- CONNECT EXIT SIGNS AND EMERGENCY LIGHTING UNITS (ELUS) AHEAD OF LOCAL SWITCHING TO THE SAME CIRCUIT AS THE AREAS GENERAL LIGHTING.
- PROVIDE MOUNTING HARDWARE AND MANUFACTURER'S ACCESSORIES FOR LIGHTING FIXTURES AS REQUIRED FOR A COMPLETE INSTALLATION.
- THE EXISTING FIRE ALARM/SECURITY PANEL IS A HONEYWELL SYSTEM. OBTAIN THE SERVICES OF THE OWNER'S FIRE ALARM VENDOR FOR PROGRAMMING, ADDITIONS, AND/OR RELOCATIONS OF EXISTING SECURITY SYSTEM DEVICES.

INTERFERENCE NOTES:

- INTERFERENCE IS DEFINED AS:
 A. THE INTERRUPTION OF NORMAL ELECTRICAL POWER DISTRIBUTION TO CONVENIENCE OUTLETS AND OTHER ELECTRICAL EQUIPMENT.
- THIS IS A WORKING INSTITUTION AND CARE SHALL BE TAKEN NOT TO INTERFERE WITH NORMAL BUILDING OPERATIONS.
- IF INTERFERENCE IS UNAVOIDABLE, NOTIFY THE OWNERS, IN WRITING, OF THE NATURE AND DURATION OF THE INTERFERENCE. THIS NOTIFICATION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE AT LEAST ONE WEEK PRIOR TO THE INTERFERENCE. OBTAIN WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH THE INTERFERENCE. THE OWNER RESERVES THE RIGHT TO REQUEST THAT THE WORK BE ACCOMPLISHED AFTER NORMAL WORKING HOURS AT NO ADDITIONAL CHARGE IN ORDER TO AVOID THE INTERFERENCE.
- ALL SUCH INTERFERENCES SHALL BE AMENDED AS RAPIDLY AS POSSIBLE, I.E., QUICKLY RESTORE THE BUILDING TO NORMAL OPERATING CONDITIONS.

	WALL OR CEILING MOUNTED SPEAKER PA SYSTEM
	WALL OR CEILING MOUNTED SOUND SYSTEM/THEATRICAL SPEAKER
	TELEPHONE BACKBOARD. FIRE RETARDANT PLYWOOD PAINTED WITH 2 COATS GRAY FIRE RETARDANT PAINT
	GROUNDING BAR
	FIRE ALARM CONTROL PANEL
	REMOTE ANNUNCIATOR PANEL
	PULL STATION
	WALL MOUNTED OR CEILING MOUNTED SMOKE DETECTOR. PHOTOELECTRIC UON
	SMOKE DETECTOR WITH CARBON MONOXIDE BASE
	HEAT DETECTOR. RATE OF RISE, FIXED TEMPERATURE 135° F
	CARBON MONOXIDE DETECTOR
	PHOTOELECTRIC DUCT SMOKE DETECTOR DUCT SMOKE
	REMOTE INDICATOR AND TEST STATION
	FIRE SMOKE DAMPER
	WALL MOUNTED STROBE ONLY NOTIFICATION APPLIANCE. 15 CANDELA UNLESS NOTED OTHERWISE. 'X' INDICATES CANDELA RATING STROBE UON
	CEILING MOUNTED STROBE ONLY NOTIFICATION APPLIANCE. 110 CANDELA UNLESS NOTED OTHERWISE. 'X' INDICATES CANDELA RATING STROBE UON
	WALL MOUNTED FIRE ALARM HORN ONLY
	WALL MOUNTED FIRE ALARM COMBINATION HORN/STROBE. 15 CANDELA UNLESS NOTED OTHERWISE. 'X' INDICATES CANDELA RATING STROBE UON
	CEILING MOUNTED FIRE ALARM SPEAKER
	DOOR HOLD OPEN DEVICE. 'F' DESIGNATION INDICATES FLOOR MOUNTED
	FIRE ALARM CONTROL MODULE
	FIRE ALARM MONITOR MODULE
	SPRINKLER PRESSURE SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	FIRE ALARM RELAY
	CEILING MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY ULTRASONIC/PIR UNLESS NOTED OTHERWISE. 'MP' INDICATES MICROPHONICS. 'XR' INDICATES EXTENDED RANGE
	LIGHTING POWER PACK
	CEILING OR WALL MOUNTED LED EXIT SIGN, PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS
	CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT
	CEILING OR WALL MOUNTED COMBINATION EXIT SIGN / EMERGENCY LIGHTING UNIT
	WALL MOUNTED LIGHT. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	WALL MOUNTED SCONCE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	LINEAR WALL MOUNTED. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	BALLAST DIRECTION INDICATED FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	LINEAR VARIABLE LENGTH OR EXISTING FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	LINEAR PENDANT FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	DIRECTIONAL UPLIGHT OR WALLWASH FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	LINEAR STRIP FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	SURFACE DOWNLIGHT. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	RECESSED DOWNLIGHT. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	PENDANT MOUNTED FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	ROOFTOP MOUNTED FLOODLIGHT MOUNTED FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	SPOTLIGHT. SEE LIGHT FIXTURE SCHEDULE FOR TYPE
	ADDED TO A FIXTURE INDICATES EMERGENCY OR GENERATOR POWERED CIRCUIT. 'LS' INDICATES LIFE SAFETY CIRCUIT. 'NL' INDICATES NIGHT LIGHT
	ACCESS CONTROL PANEL
	CARD READER
	DOOR OPERATOR POWER CONNECTION
	MOTION SENSOR
	EGRESS SENSOR
	HANDICAP DOOR OPERATOR PUSH PAD ACTUATOR
	SECURITY CAMERA. PROVIDE 1 CAT 6 CABLE FOR CAMERA. CAMERA FURNISHED AND INSTALLED BY OWNER'S SECURITY VENDOR.

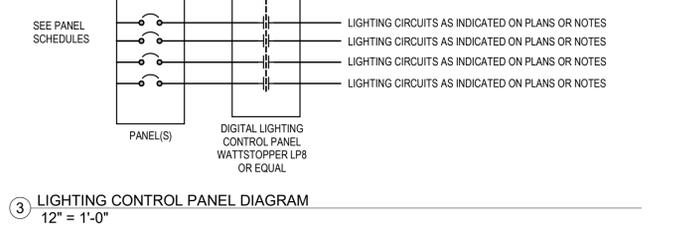


- NOTES:**
- THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE FROM THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
 - WHERE SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE EC SHALL VERIFY HEIGHTS ON SITE WITH THE ARCHITECT.
 - THE EC SHALL VERIFY FINAL WORKBENCH, COUNTER, CABINET OR VANITY HEIGHTS INCLUDING BACK SPLASH, ON SITE WITH THE GC PRIOR TO THE INSTALLATION OF ANY BOXES.
 - WHERE DEVICES ARE INSTALLED ABOVE OR BELOW EACH OTHER ALL DEVICE BOXES SHALL ALIGN VERTICALLY.
 - WHERE DEVICES RE INSTALLED ON EACH SIDE OF A RATED WALL THE DEVICES SHALL BE OFFSET.

1 DEVICE MOUNTING DETAIL NTS



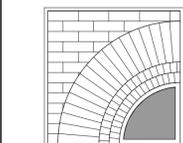
3 LIGHTING CONTROL PANEL DIAGRAM



EQUIPMENT NAME
 XXX VOLTS, X PH, X WIRE
 FED FROM PANEL XXX
 CIRCUIT XX, XX, XX

- NOTES:**
- EXAMPLE PLATE SHOWN.
 - PROVIDE MINIMUM 1/4" HEIGHT WHITE LETTERING ON BLACK BACKGROUND.
 - ATTACH WITH WATERPROOF ADHESIVE.

2 LAMINATED IDENTIFICATION PLATE NTS



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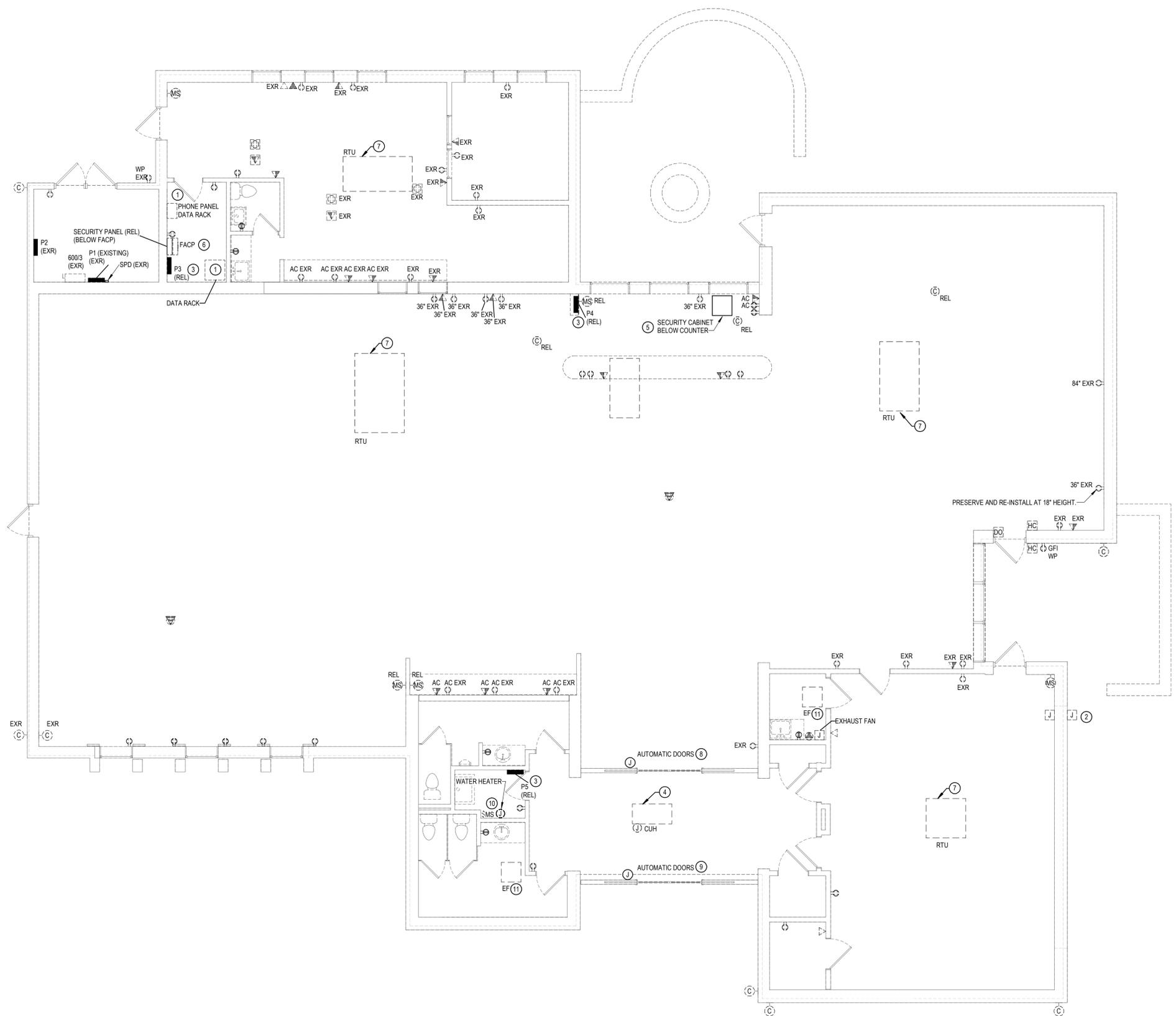
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DWN BY: RET
 SCALE: AS SHOWN
 JOB NO.: 23-48-08
 DATE: 05/20/25

**ELECTRICAL
 LEGEND,
 NOTES, AND
 DETAILS**

TITLE

E001
 DWG. NO.



GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. PHONE SYSTEM PANEL AND DATA RACK AND COMPONENTS WILL BE RELOCATED BY OWNER.

GENERAL REMOVAL NOTES:

1. REMOVAL DRAWINGS INDICATE DEVICE LOCATIONS, EQUIPMENT CONNECTIONS, AND PANEL LOCATIONS AS OBSERVED IN THE FIELD. EXISTING PANEL INFORMATION IS BASED ON FIELD OBSERVATION AND AS-BUILT DRAWINGS. VERIFY CIRCUITING IN FIELD PRIOR TO REMOVAL. CONFIRM ALL LOCATIONS WITH FIELD OBSERVATIONS, MEASUREMENTS, AND INVESTIGATION. REMOVE ELECTRICAL ITEMS SHOWN ON PLANS UNLESS NOTED OTHERWISE.
2. PROVIDE LIFTS, LADDERS, AND OTHER EQUIPMENT REQUIRED TO GAIN ACCESS FOR ALL ELEVATED WORK. OWNER'S LIFTS AND LADDERS SHALL NOT BE USED.
3. COORDINATE REMOVALS WITH THE ARCHITECTURAL PLANS.
4. COORDINATE ELECTRICAL REMOVALS WITH OTHER TRADES.
5. CONDUCT REMOVALS TO ALLOW EXISTING RECEPTACLES TO REMAIN TO STAY ON THEIR EXISTING CIRCUIT(S) SHOULD A NEW CIRCUIT OR DEDICATED CIRCUIT NOT BE INDICATED ON THE DRAWINGS.
6. REMOVE CONDUCTORS AND CONDUIT BACK TO SOURCE PANEL WHERE NOT INDICATED FOR REUSE.
7. MAINTAIN CIRCUIT CONTINUITY TO SYSTEMS AND ROOMS ADJACENT TO RENOVATION AND CONSTRUCTION AREAS. PERMANENTLY REPAIR CIRCUITS OR WIRING DISTURBED, MODIFIED, OR DISPLACED BY THE WORK.
8. REPAIR ALL OPEN PENETRATIONS CREATED BY REMOVAL OF ELECTRICAL RACEWAYS.
9. REMOVE CONDUIT AND CONDUCTORS ASSOCIATED WITH FIXTURES, DEVICES, AND EQUIPMENT REMOVED.
10. PROVIDE COVER PLATES FOR ABANDONED FLUSH MOUNTED DEVICES.
11. REMOVE DATA JACKS AND CABLING BACK TO DATA RACKS. REMOVE PHONE JACKS AND CABLING BACK TO TELEPHONE PUNCH PANEL.
12. PROVIDE TEMPORARY LIGHTING TO 10 FC WHERE LIGHTING IS REMOVED OR TEMPORARILY DIMINISHED OR DISABLED.
13. THE EXISTING FIRE ALARM IS A SILENT KNIGHT PANEL MAINTAINED BY SAFECO ALARM SYSTEMS. OBTAIN THE SERVICES OF THE OWNER'S FIRE ALARM VENDOR FOR PROGRAMMING, ADDITIONS, AND/OR RELOCATIONS OF EXISTING FIRE ALARM DEVICES.
14. THE EXISTING SECURITY PANEL IS A REGENCY PANEL MAINTAINED BY SAFECO SECURITY SYSTEMS. OBTAIN THE SERVICES OF THE OWNER'S SECURITY VENDOR FOR PROGRAMMING, ADDITIONS, AND/OR RELOCATIONS OF EXISTING SECURITY SYSTEM DEVICES.
15. PROTECT SMOKE DETECTORS DURING CONSTRUCTION. TAKE MEASURES TO PREVENT FIRE ALARM SYSTEM TRIP DUE TO CONSTRUCTION. RESTORE FIRE ALARM TO FULL FUNCTION WHEN COMPLETE.

KEYED NOTES:

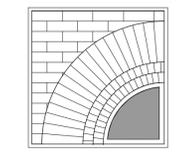
1. PRESERVE AND RELOCATE PHONE PANEL, SECURITY PANEL, DATA RACK, AND ASSOCIATED COMPONENTS.
2. REMOVE JUNCTION BOX. PRESERVE CONDUCTORS FOR REUSE.
3. RELOCATE PANELBOARD AND EXISTING CIRCUITS TO REMAIN FROM HERE TO NEW LOCATION OF PANEL.
4. REMOVE CABINET UNIT HEATER AND REMOVE CONDUCTOR BACK TO SOURCE.
5. RELOCATE SECURITY SYSTEM AND EXTEND EXISTING WIRING TO NEW LOCATION. COORDINATE WITH OWNER'S VENDOR.
6. PRESERVE AND RELOCATE RELOCATE PHONE PANEL, FACP, SECURITY PANEL, PANEL P3, DATA RACK, AND ASSOCIATED COMPONENTS.
7. REMOVE EXISTING HVAC UNIT, DISCONNECTS, AND CIRCUIT BACK TO SOURCE.
8. REMOVE AUTOMATIC DOOR AND REMOVE CONDUCTORS BACK TO SOURCE.
9. ADD ALTERNATE #4: REMOVE AUTOMATIC DOOR AND REMOVE CONDUCTORS BACK TO SOURCE.
10. REMOVE WATER HEATER AND MS SWITCH. REMOVE CONDUCTOR BACK TO SOURCE.
11. REMOVE EXHAUST FAN. REMOVE CIRCUIT BACK TO SOURCE.

1 POWER AND DATA REMOVALS PLAN
3/16" = 1'-0"

5/20/2025 ISSUED FOR BIDDING

ISSUES AND REVISIONS

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JOB NO.: 23-48-08
DATE: 05/20/25

**POWER AND
DATA
REMOVALS
PLAN**

TITLE

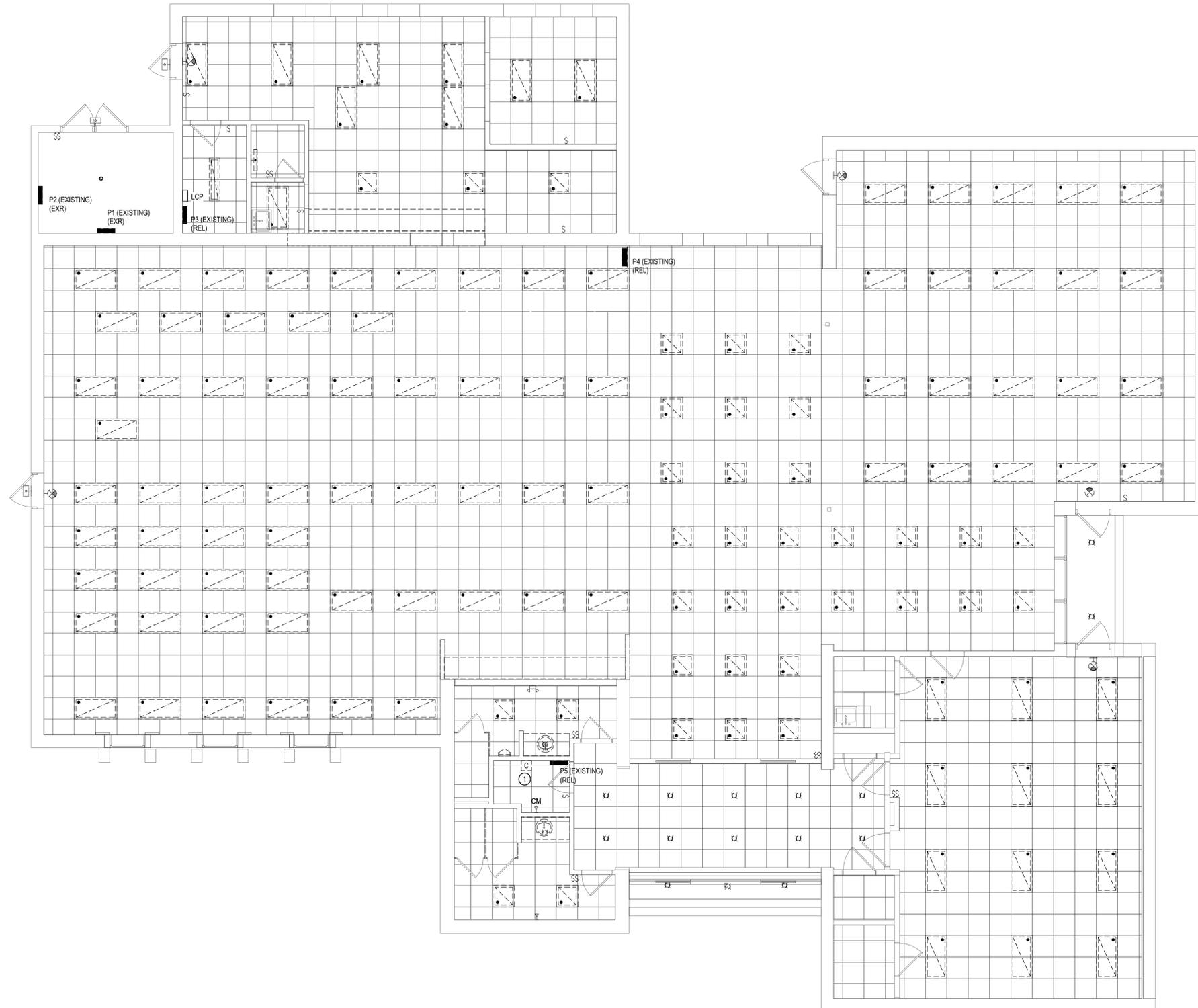
ER101
DWG. NO.

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. SEE ER101 FOR GENERAL REMOVAL NOTES.

KEYED NOTES:

- ① EXTEND EXISTING UG SITE LIGHTING CIRCUITS SERVED FROM THIS PANEL AND CONTACTOR TO NEW LOCATION OF PANELBOARD AND TIMECLOCK. REMOVE CONTACTOR.

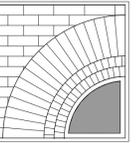


① LIGHTING REMOVALS PLAN
3/16" = 1'-0"

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LIGHTING
REMOVALS
PLAN

TITLE

ER201

DWG. NO.

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. SEE ER101 FOR GENERAL REMOVAL NOTES.

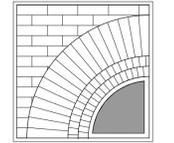
KEYED NOTES:



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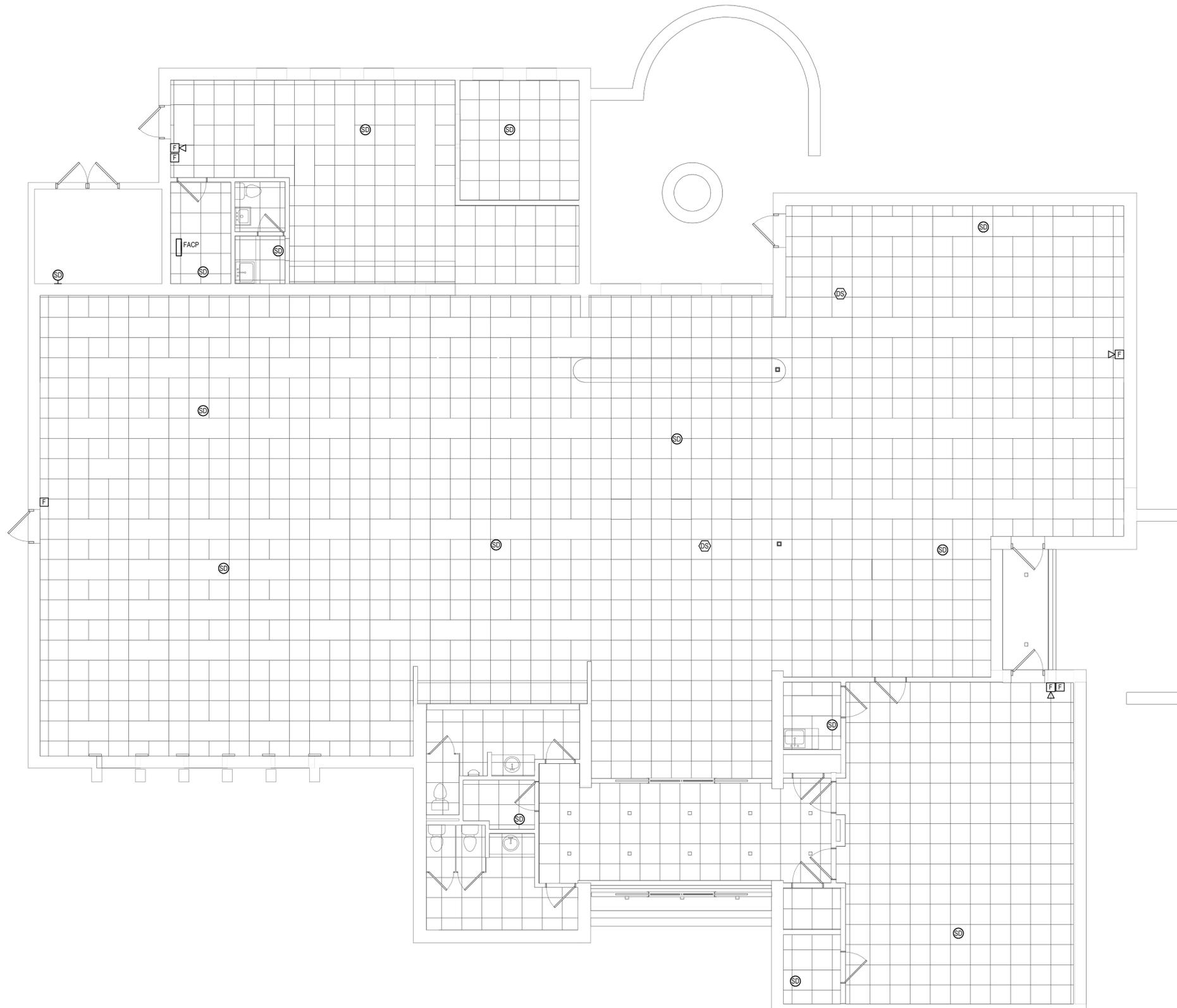
DWN. BY: RET
SCALE: AS SHOWN
JOB NO.: 23-46-06
DATE: 05/20/25

**FIRE ALARM
REMOVALS
PLAN**

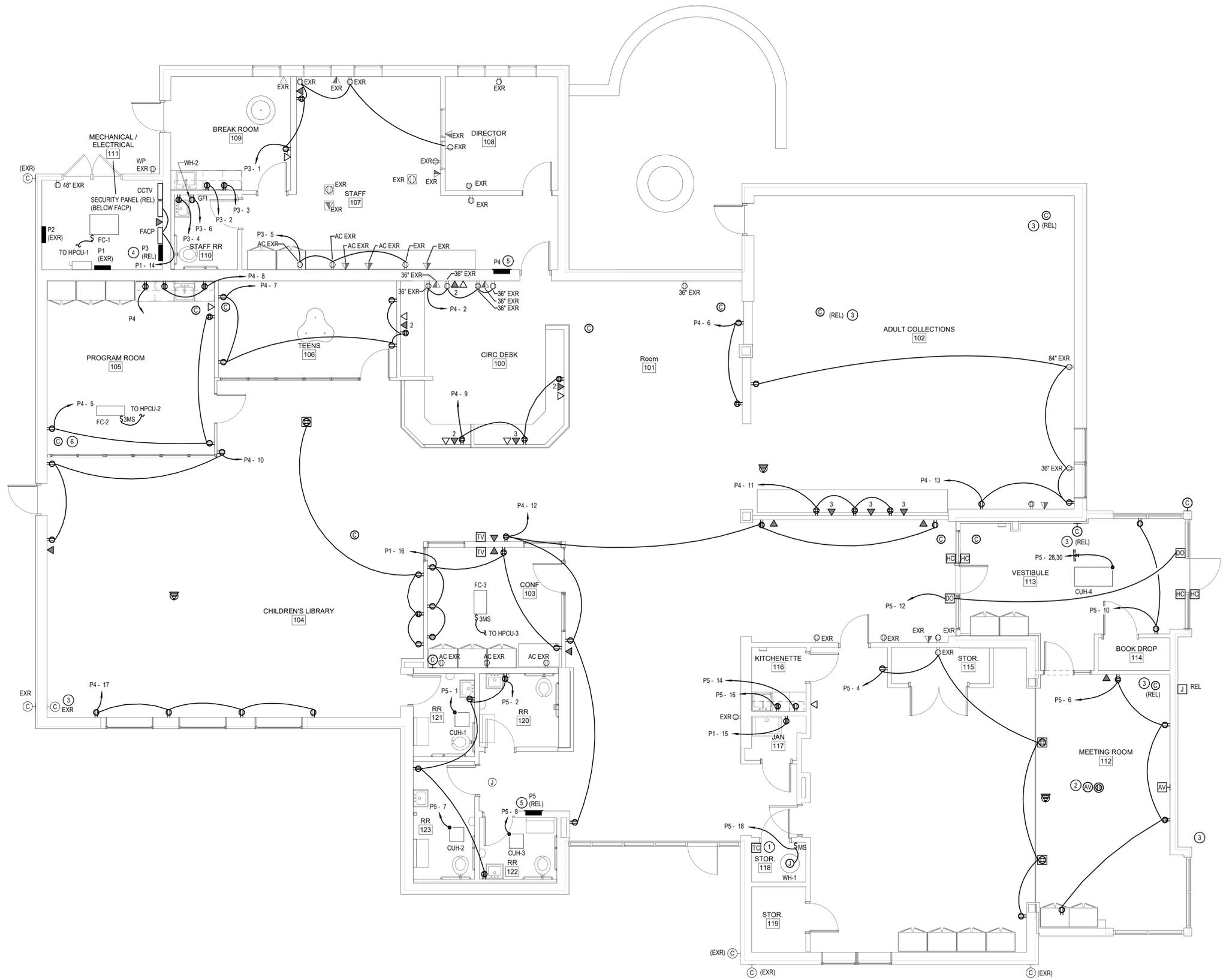
TITLE

ER301

DWG. NO.



① FIRE ALARM REMOVALS PLAN
3/16" = 1'-0"



GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. ALL DUPLEX AND QUADRUPLX RECEPTACLES PROVIDED DURING THIS PHASE MUST BE TAMPER-RESISTANT.

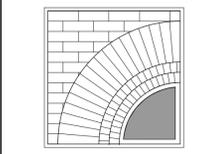
KEYED NOTES:

- 1 PROVIDE INTERMATIC # ET2145C TIMECLOCK (4 CIRCUIT) TO CONTROL SITE AND BUILDING EXTERIOR LIGHTING.
- 2 PROVIDE ONE 25' ACTIVE HDMI CABLE FROM CEILING MOUNTED AV BOX TO WALL MOUNTED AV BOX. LEAVE 1' OF CABLE LENGTH AT CEILING MOUNTED AV BOX FOR CONNECTION TO PROJECTOR.
- 3 PRESERVE EXISTING CAMERA AND CABLE. REUSE IN PLACE AFTER CEILING AND WALL WORK IS COMPLETE.
- 4 PRESERVE AND RELOCATE RELOCATE PHONE PANEL, FACP, SECURITY PANEL, PANEL P3, DATA RACK, AND ASSOCIATED COMPONENTS.
- 5 PRESERVE AND RELOCATE PANEL.
- 6 PROVIDE INTERMATIC # ET2145C TIMECLOCK (4 CIRCUIT) TO CONTROL SITE AND BUILDING EXTERIOR LIGHTING.

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POWER AND DATA PLAN

TITLE

E101
DWG. NO.

1 POWER AND DATA PLAN
3/16" = 1'-0"

GENERAL NOTES:

- 1. SEE E001 FOR GENERAL NOTES.

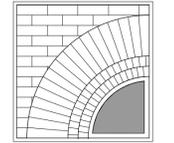
KEYED NOTES:



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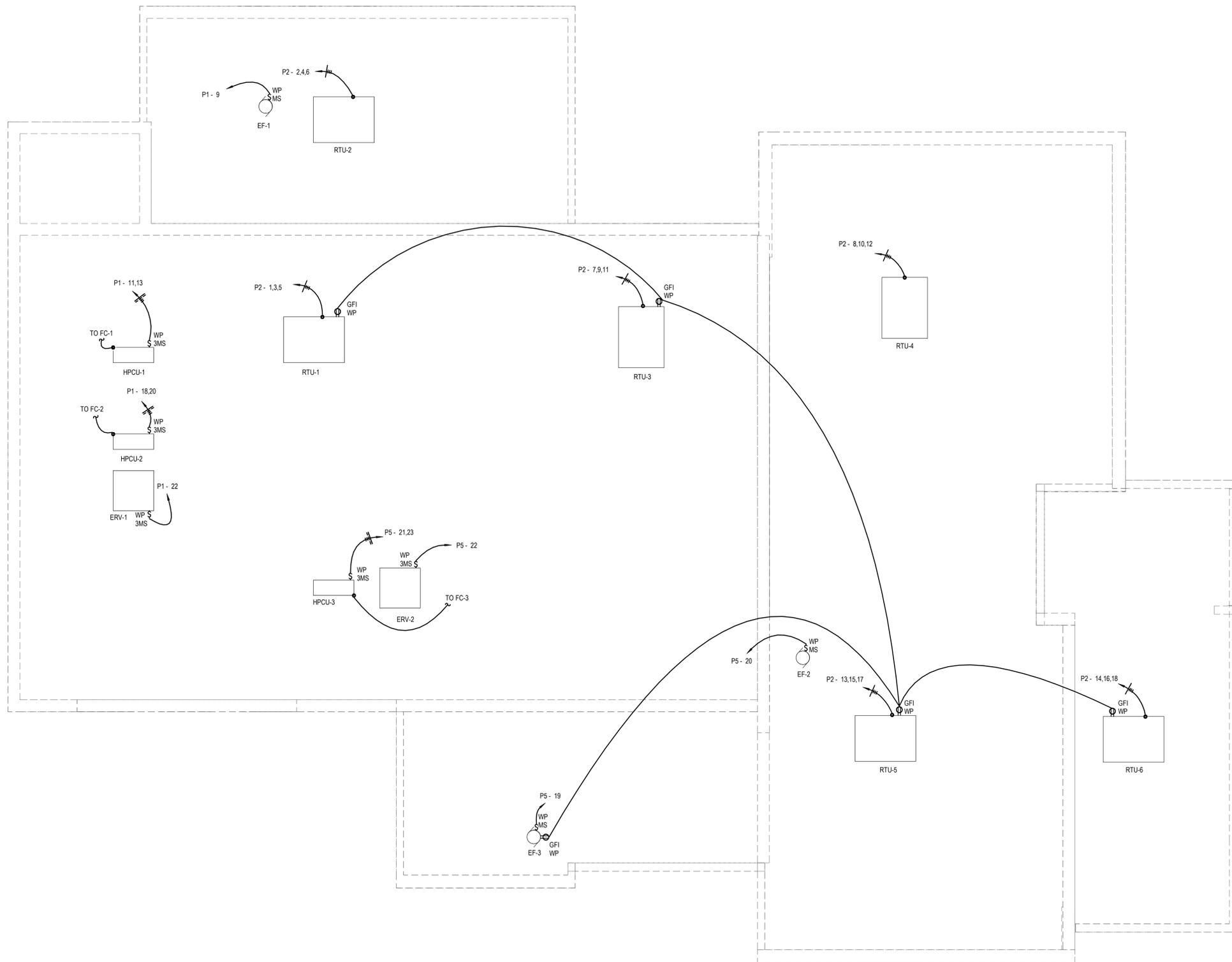
DWN. BY: RET
SCALE: AS SHOWN
JOB NO.: 23-48-08
DATE: 05/20/25

**MECHANICAL
POWER PLAN**

TITLE

E102

DWG. NO.



GENERAL NOTES:

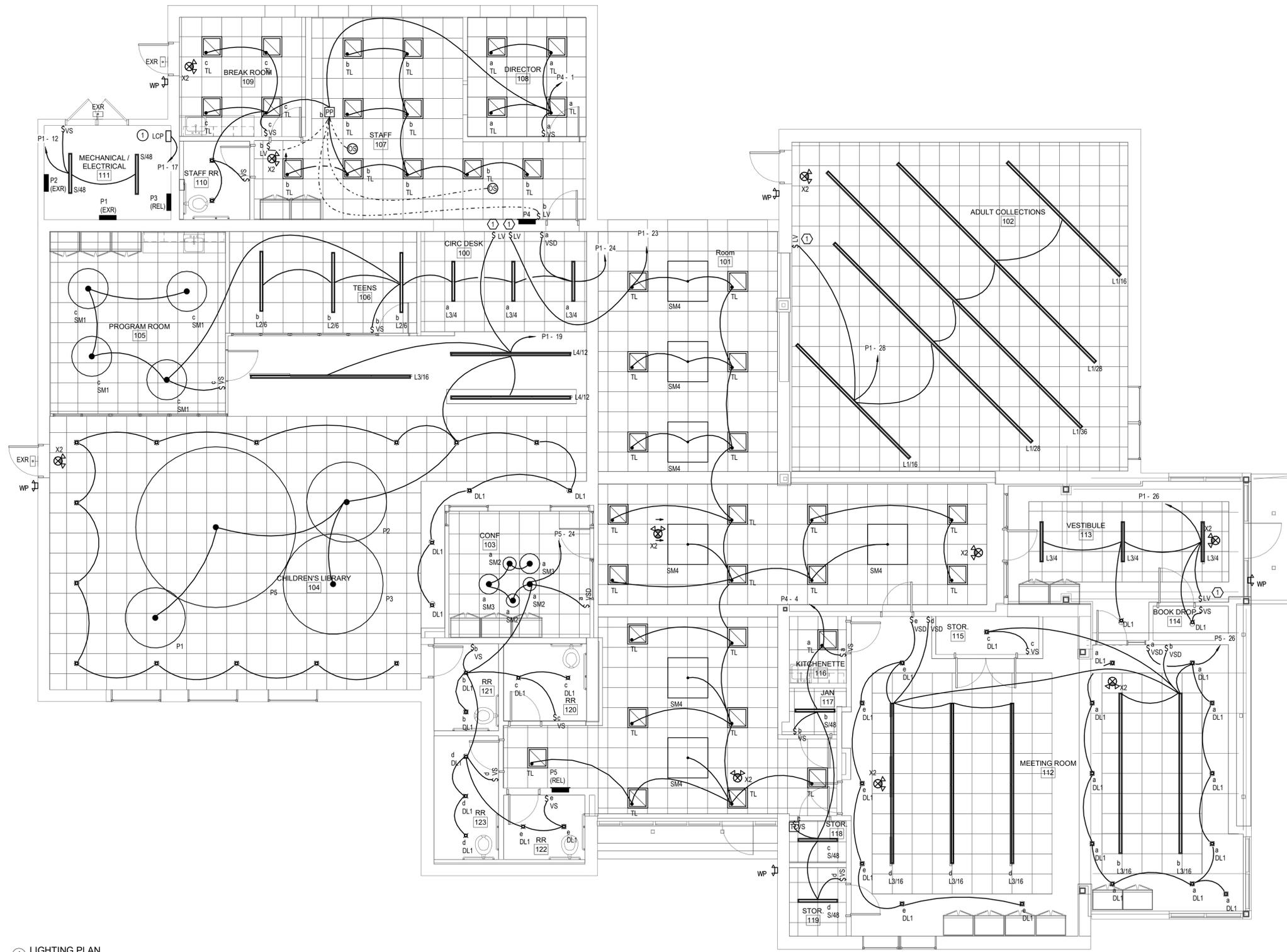
- 1. SEE E001 FOR GENERAL NOTES.

KEYED NOTES:

- 1 PROVIDE LIGHTING CONTROL PANEL. LIGHTING CONTROL PANEL SHALL CONTAIN TIME-SWITCH CONTROLS. SET TIME-SWITCH CONTROLS FOR THE LIBRARY'S HOURS OF OPERATION (9:30AM-8PM MONDAY-FRIDAY, 11AM-5PM SATURDAY, 1-5PM SUNDAY). PROGRAM TIME-SWITCH CONTROLS TO SHUT OFF DURING OFF HOURS AND HOLIDAYS.

LCP NOTES

- 1 CONNECT LOW VOLTAGE SWITCH TO THE LCP VIA LIGHTING CONTROL CIRCUIT. LOW VOLTAGE SWITCH SHALL BE CAPABLE OF DIMMING (LIGHT REDUCTION BY NOT LESS THAN 50 PERCENT). LOW VOLTAGE SWITCH SHALL PERMIT THE CONTROLLED LIGHTING AREA TO REMAIN ON FOR NOT MORE THAN 2 HOURS.

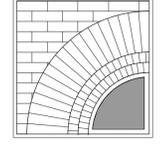


1 LIGHTING PLAN
3/16" = 1'-0"

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DATE: 05/20/25

LIGHTING PLAN

TITLE

E201

DWG. NO.

GENERAL NOTES:

- 1. SEE E001 FOR GENERAL NOTES.

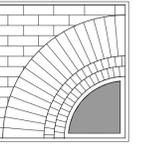
KEYED NOTES:

- ① PROVIDE DUCT SMOKE DETECTOR IN THE RETURN DUCT OF INDICATED UNIT. LOCATE DUCT SMOKE DETECTOR UPSTREAM OF ALL BRANCHES. PROVIDE CONTROL RELAYS AS NECESSARY TO SHUT DOWN ROOFTOP UNIT THAT DUCTWORK RETURNS TO. PROVIDE WIRING, INCLUDING ANY CONTROL WIRING, PER MANUFACTURERS INSTRUCTIONS.

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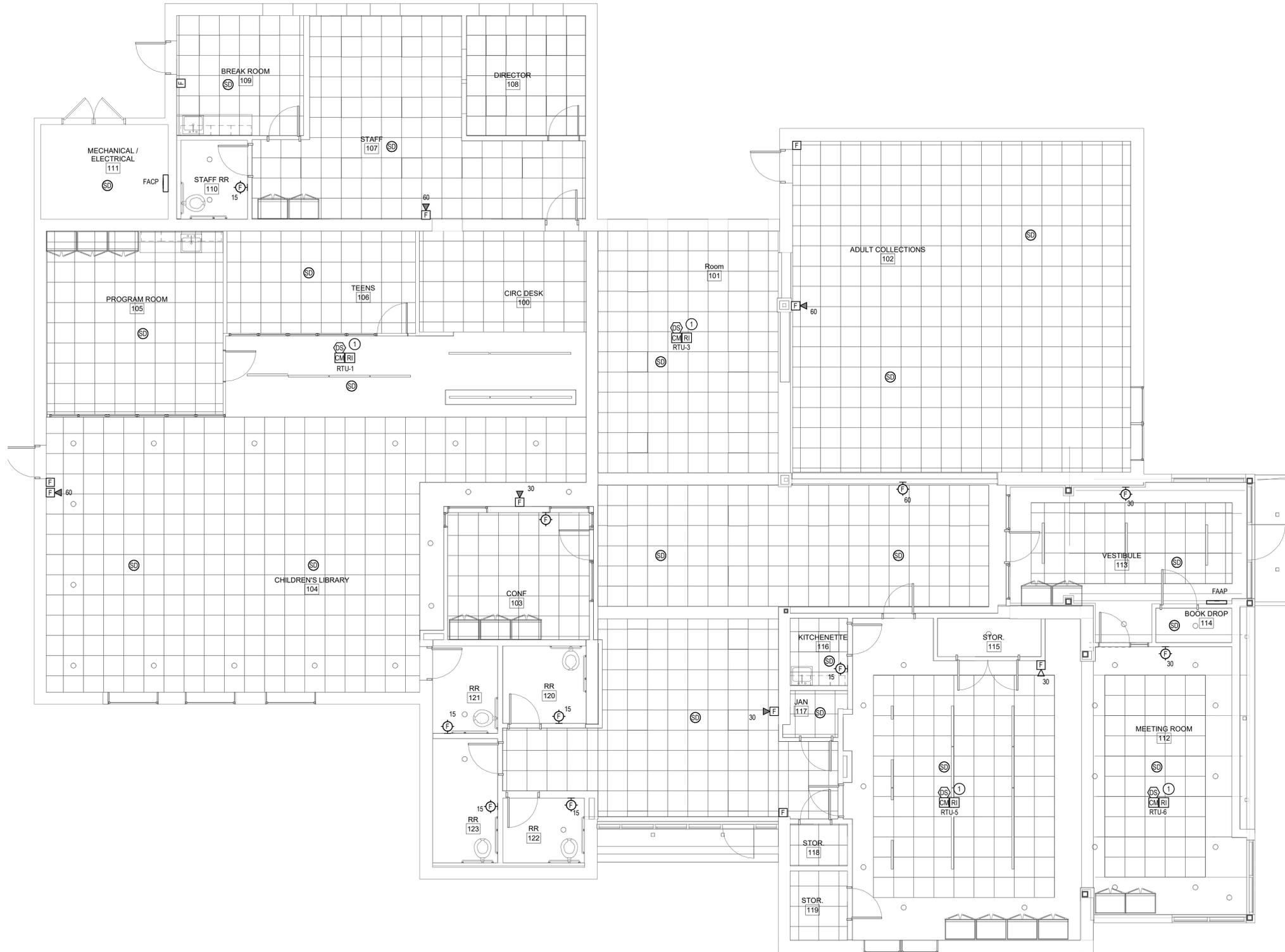
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SCALE: AS SHOWN
JOB NO.: 23-48-08
DATE: 05/20/25

FIRE ALARM PLAN

TITLE

E301

DWG. NO.



① FIRE ALARM PLAN
3/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER	LAMP			VOLTS	FIXTURE REMARKS
			TYPE	WATTS	LUMENS		
DL1	4" ROUND RECESSED LED DOWNLIGHT	LUMENWERX	LED	14.0 W	767 lm	3500 K	120/277
L1/16	LINEAR SUSPENDED BI-DIRECTIONAL LED	Tetra2 Direct Lambertian 2ft 80CRI 4000K Medium	LED	88.0 W	2600 lm	3500 K	120/277
L1/28	LINEAR SUSPENDED BI-DIRECTIONAL LED	Tetra2 Indirect Lambertian 2ft 80CRI 4000K Medium	LED	154.0 W	2600 lm	3500 K	120/277
L1/36	LINEAR SUSPENDED BI-DIRECTIONAL LED	Tetra2 Direct Lambertian 2ft 80CRI 4000K Medium	LED	198.0 W	2600 lm	3500 K	120/277
L2/6	LINEAR SUSPENDED ACCOUSTIC LED	Lumenwerx VIA1.5PD-HLO-FH-SW-80-500-35-4FT	LED	30.6 W	2600 lm	3500 K	120/277
L3/4	LINEAR SUSPENDED ACCOUSTIC LED	LUMENWERX VIA1.5PD-HLO-FH-SW-80-500-35-4FT	LED	28.0 W	2600 lm	3500 K	120/277
L3/16	LINEAR RECESSED LED	LUMENWERX VIA1.5PD-HLO-FH-SW-80-500-35-4FT	LED	112.0 W	2600 lm	3500 K	120/277
L4/12	LINEAR SUSPENDED LED	LUMENWERX QUAWP-HLO-LED-80-750-35-4FT	LED	21.1 W	2600 lm	3500 K	120/277
P1	ACCOUSTIC RING 6"	LumenWerx PCROD-48-ULO-LED-80-7000-35-UNV	LED	116.0 W	0 lm	3500 K	120/277 SUSPEND WITH 8" FROM BOTTOM OF FIXTURE TO FLOOR.
P2	ACCOUSTIC RING 8"	LightArt Acoustic Ring 8"	LED	173.0 W	0 lm	3500 K	120/277 SUSPEND WITH 8" FROM BOTTOM OF FIXTURE TO FLOOR.
P3	ACCOUSTIC RING 10"	LightArt Acoustic Ring 10"	LED	231.0 W	0 lm	3500 K	120/277 SUSPEND WITH 8" FROM BOTTOM OF FIXTURE TO FLOOR.
P5	ACCOUSTIC RING 16"	LightArt Acoustic Ring 16"	LED	375.0 W	0 lm	3500 K	120/277 SUSPEND WITH 8" FROM BOTTOM OF FIXTURE TO FLOOR.
S/48	CONTRACTOR LED SINGLE STRIP, 48", 3000 LUMENS, 120-347V, 3500K, 80 CRI	CSS L48 ALO3 (3000) UVOLT SSW3 (35) 80CRI	LED	27.0 W	2600 lm	3500 K	120/277
SM1	ROUND SUSPENDED 48" LED	LumenWerx PCROD-48-ULO-LED-80-7000-35-UNV	LED	64.6 W	0 lm	3500 K	120/277
SM2	ROUND SUSPENDED 16"	BROWNLEE LIGHTING INC 2470-16-WH-R22-35K	LED	0.0 W	0 lm	3500 K	120/277
SM3	ROUND SUSPENDED 24"	BROWNLEE LIGHTING INC 2472-24-WH-R49-35K	LED	2196.0 W	0 lm	3500 K	120/277
SM4	9" BLACK PENDANT	LightArt ACC-SHPE-BOX-48SQ-12H	E12	60.0 W	1200 lm	3000 K	120/277
TL	2X2 ALO3 SSW7 MVOLT 3500K MEDIUM LUMEN	LITHONIA LIGHTING LFRM 2X2ALO3 SSW7 MVOLT M6	LED	24.0 W	3130 lm	3500 K	120/277
	LED EMERGENCY LIGHTING UNIT WITH ADJUSTABLE HEADS, SELF DIAGNOSTICS	LITHONIA #ELM2LEDSD	LED	2.9 W			120
X2	UNIVERSAL MOUNT SINGLE OR DOUBLE FACE THERMOPLASTIC LED EXIT SIGN WITH EMERGENCY LIGHTING UNIT. SELF DIAGNOSTICS		LED	3.4 W			120 PROVIDE MOUNTING AND DIRECTIONAL CONFIGURATION AS INDICATED ON DRAWINGS

LIGHTING CONTROL PANEL SCHEDULE						
NOTE:						
NAME AND LOCATION				MOUNTING SURFACE	CIRCUIT	VOLTAGE
LCP MECHANICAL / ELECTRICAL 111				P1-17	P1-17	120 V
RELAY	DESCRIPTION	RELAY TYPE	CIRCUIT	VOLTAGE	INPUTS	MANUAL CONTROLS
1	CHILDRENS LIBRARY 104		P1-19	120 V		
2	ROOM 101		P1-23	120 V		
3	ADULT COLLECTIONS 102		P1-28	120 V		
4	VESTIBULE 113		P1-26	120 V		
5	PROGRAM ROOM 105, TEENS 106, CIRC DESK 100		P1-24	120 V		

GENERAL NOTES:

- SEE E001 FOR GENERAL NOTES.

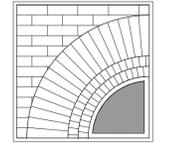
KEYED NOTES:



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**LIGHTING
FIXTURE
SCHEDULE**

TITLE

E501

DWG. NO.

GENERAL NOTES:

- SEE E001 FOR GENERAL NOTES.

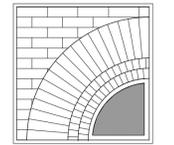
KEYED NOTES:



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PANEL SCHEDULES

TITLE

E601

DWG. NO.

NAME: P1 (EXISTING)		EXISTING PANEL SCHEDULE																			
MOUNTING:	SURFACE	VOLTS:	208Y/120	PHASE:	3	WIRE:	4														
MAIN RATING:	200 A	MCB:		MIN AIC RATING:		AMPS RMS SYM															
OTHER:				LOCATION:	MECHANICAL / ELECTRICAL 111																
NOTES:																					
CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT				
1	PANEL "C"	--	--	100	3	0	0	0	--	--	--	1	20	--	--	FUEL LINE HECT TAPE	2				
3	--	--	--	--	--	0	0	--	--	--	--	1	--	--	--	--	4				
5	--	--	--	--	--	0	0	--	--	--	--	1	--	--	--	--	6				
7	EXIT LIGHTS	--	--	20	1	0	0	0	--	--	--	2	125	--	--	HEAT PUMP #1 BACK OFFICE	8				
9	VACUUM	--	--	20	1	0	0	0	--	--	--	1	--	--	--	--	10				
11	SPARE	--	--	20	1	0	0	0	0	2	125	--	--	--	--	HEAT PUMP #3 COMMUNITY ROOM	12				
13	VACUUM	--	--	20	1	0	0	0	0	2	60	--	--	--	--	--	14				
15	HEAT PUMP #2 KIDS AREA	--	--	125	2	0	0	0	0	2	60	--	--	--	--	COMPUTER POWER PANEL	16				
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18				
19	SIEMENS SURGE PROTECTIVE DEVICE	--	--	40	3	0	0	0	0	3	100	--	--	--	--	3 PHASE ACHEAT UNIT - CLOSEST TO 9W	20				
21	--	--	--	--	--	0	0	0	0	--	--	--	--	--	--	--	22				
23	--	--	--	--	--	0	0	0	0	--	--	--	--	--	--	--	24				
25	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	26				
27	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	28				
29	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	30				
31	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	32				
33	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	34				
35	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	36				
37	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	38				
39	TEMP COMPRESSOR	--	--	20	2	0	0	--	--	--	--	1	--	--	--	--	40				
41	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	42				

NAME: P2 (EXISTING)		EXISTING PANEL SCHEDULE																			
MOUNTING:	SURFACE	VOLTS:	208Y/120	PHASE:	3	WIRE:	4														
MAIN RATING:	200 A	MCB:	300 A	MIN AIC RATING:		AMPS RMS SYM															
OTHER:				LOCATION:	MECHANICAL / ELECTRICAL 111																
NOTES:																					
CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT				
1	ROOF AIR CONDITIONING UNIT	--	--	70	3	0	0	0	--	--	--	3	50	--	--	ROOF AIR CONDITIONING UNIT	2				
3	--	--	--	--	--	0	0	0	--	--	--	1	--	--	--	--	4				
5	--	--	--	--	--	0	0	0	--	--	--	1	--	--	--	--	6				
7	FURNACE (MOVE TO P1)	--	--	20	1	0	0	0	--	--	--	1	20	--	--	LIGHTS (MOVE TO P1)	8				
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10				
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12				
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14				
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16				
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18				

NAME: P3 (EXISTING)		RELOCATE EXISTING PANEL																			
MOUNTING:	SURFACE	VOLTS:	208Y/120	PHASE:	3	WIRE:	4														
MAIN RATING:	125 A	MCB:	MLO	MIN AIC RATING:		AMPS RMS SYM															
OTHER:				LOCATION:	STAFF RR 110																
NOTES:																					
CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT				
1	OUTLETS #1	--	--	20	1	0	0	0	--	--	--	1	20	--	--	OUTLETS #2	2				
3	OUTLETS #3	--	--	20	1	0	0	0	--	--	--	1	20	--	--	OUTLETS #4	4				
5	OUTLETS #5	--	--	20	1	0	0	0	--	--	--	1	20	--	--	OUTLETS #6	6				
7	OUTLETS #7	--	--	20	1	0	0	0	--	--	--	1	20	--	--	OUTLETS #8	8				
9	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	10				
11	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	12				
13	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	14				
15	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	16				
17	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	18				
19	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	20				

NAME: P4 (EXISTING)		RELOCATE EXISTING PANEL																			
MOUNTING:	RECESSED	VOLTS:	208Y/120	PHASE:	3	WIRE:	4														
MAIN RATING:	225 A	MCB:	MLO	MIN AIC RATING:		AMPS RMS SYM															
OTHER:				LOCATION:	Room 101																
NOTES:																					
CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT				
1	MAIN RM LIGHTS: SOUTH SEC.	--	--	20	1	0	0	0	--	--	--	1	20	--	--	MAIN RM LIGHTS: NORTH SEC.	2				
3	MAIN RM LIGHTS: SOUTH SEC.	--	--	20	1	0	0	0	--	--	--	1	20	--	--	MAIN RM LIGHTS: NORTH SEC.	4				
5	MAIN RM LIGHTS: SOUTH SEC.	--	--	20	1	0	0	0	0	1	20	--	--	--	--	MAIN RM LIGHTS: NORTH SEC.	6				
7	MAIN RM LIGHTS: SOUTH SEC.	--	--	20	1	0	0	0	0	1	20	--	--	--	--	MAIN RM LIGHTS: NORTH SEC.	8				
9	MAIN RM LIGHTS: SOUTH SEC.	--	--	20	1	0	0	0	0	1	20	--	--	--	--	MAIN RM LIGHTS: NORTH SEC.	10				
11	MAIN RM LIGHTS: SOUTH SEC.	--	--	20	1	0	0	0	0	1	20	--	--	--	--	SPARE	12				
13	MAIN RM LIGHTS: SOUTH SEC.	--	--	20	1	0	0	0	0	1	20	--	--	--	--	MAIN RM LIGHTS: CENTER	14				
15	MAIN RM LIGHTS: SOUTH SEC.	--	--	20	1	0	0	0	0	1	20	--	--	--	--	MAIN RM LIGHTS: CENTER	16				
17	PATIO ELECTRIC DOOR	--	--	20	1	0	0	0	0	1	20	--	--	--	--	LIGHTS - OFFICE AREA	18				
19	SPARE	--	--	20	1	0	0	0	0	1	20	--	--	--	--	LIGHTS - OFFICE AREA	20				
21	SPARE	--	--	20	1	0	0	0	0	1	20	--	--	--	--	OFFICE AREA BATH FAN	22				
23	MAIN RM OUTLETS: NORTH SEC	--	--	20	1	0	0	0	0	1	20	--	--	--	--	OFFICE AREA OUTLETS	24				
25	MAIN RM OUTLETS: NORTH SEC	--	--	20	1	0	0	0	0	1	20	--	--	--	--	OFFICE AREA OUTLETS	26				
27	CIRC. DESK AREA OUTLETS	--	--	20	1	0	0	0	0	1	20	--	--	--	--	OFFICE KITCHEN OUTLETS	28				
29	CIRC. DESK AREA OUTLETS	--	--	20	1	0	0	0	0	1	20	--	--	--	--	OFFICE BATHS STORAGE OUTLETS	30				
31	COUNTER OUTLETS: WEST WALL	--	--	20	1	0	0	0	0	1	20	--	--	--	--	OPIER OUTLET - FRONT AREA	32				
33	MAIN RM OUTLETS: SOUTH	--	--	20	1	0	0	0	0	1	20	--	--	--	--	COPIER OUTLET - OFFICE AREA	34				
35	MAIN RM OUTLETS: SOUTH	--	--	20	1	0	0	0	0	2	30	--	--	--	--	WATER HEATER	36				
37	COUNTER OUTLETS: EAST WALL	--	--	20	1	0	0	0	0	1	20	--	--	--	--	--	38				
39	MAIN RM OUTLETS: SOUTH	--	--	20	1	0	0	0	0	2	20	--	--	--	--	KITCHENETTE COOKTOP	40				
41	NITE/EMER LIGHTS (MAIN AREA)	--	--	20	1	0	0	0	0	--	--	--	--	--	--	--	42				

NAME: P1		PANEL SCHEDULE MODIFIED																			
MOUNTING:	SURFACE	VOLTS:	208Y/120	PHASE:	3	WIRE:	4														
MAIN RATING:	200 A	MCB:		MIN AIC RATING:		AMPS RMS SYM															
OTHER:				LOCATION:	MECHANICAL / ELECTRICAL 111																
NOTES:																					
CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT				
1	P1 (MODIFIED)	2340	#3	100	3	1260			5108			3	100	#3	22104	P5	2				
3	--	--	--	--	--	360			6513			3	100	#3	--	--	4				
5	--	--	--	--	--	720			10483			3	100	#3	--	--	6				
7	EXIT LIGHTS	--	--	20	1	0	0	0	--	--	--	1	20	--	--	FUEL LINE HECT TAPE	8				
9	EF-1	528	#12	20	1	528			0												

NAME: P5 (EXISTING)

RELOCATE EXISTING PANEL

MOUNTING:	SURFACE	VOLTS:	208Y/120	PHASE:	3	WIRE:	4
MAIN RATING:	200 A	MCB:	MLO	MIN AIC RATING:		AMPS RMS SYM	
OTHER:				LOCATION:			

NOTES:

CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT
1	BATH AREA LIGHTS	--	--	20	1	0	0	0	0	0	0	1	20	--	--	BATH AREA OUTLETS	2
3	FOYER LIGHTS	--	--	20	1	0	0	0	0	0	0	1	20	--	--	MEETING ROOM OUTLETS	4
5	OUTSIDE LIGHTS	--	--	20	1	0	0	0	0	0	0	1	20	--	--	MEETING ROOM OUTLETS	6
7	MEETING ROOM LIGHTS	--	--	20	1	0	0	0	0	0	0	1	20	--	--	KITCHENETTE EXHAUST FAN	8
9	MEETING ROOM LIGHTS	--	--	20	1	0	0	0	0	0	0	1	20	--	--	SOUTH SIDE COPIER	10
11	NITE-EMER LIGHTS (FRONT)	--	--	20	1	0	0	0	0	0	0	1	20	--	--	NORTH SIDE COPIER	12
13	FLAGPOLE LIGHT	--	--	20	1	0	0	0	0	0	0	1	20	--	--		14
15	OUTSIDE POST LIGHTS	--	--	20	1	0	0	0	0	0	0	1	20	--	--		16
17	NORTH PARKING POLE LIGHTS	--	--	20	1	0	0	0	0	0	0	1	20	--	--		18
19	EXISTING LOAD	--	--	20	1	0	0	0	0	0	0	1	20	--	--		20
21	NORTH WIREMOLD QUAD RECEPT	--	--	20	1	0	0	0	0	0	0	1	20	--	--		22
23	EAST WALL WIREMOLD RECEPT	--	--	20	1	0	0	0	0	0	0	1	20	--	--		24
25	-	--	--	1	1	0	0	0	0	0	0	1	20	--	--		26
27	FRONT SIGN	--	--	20	2	0	0	0	0	0	0	1	20	--	--		28
29	-	--	--	2	2	0	0	0	0	0	0	1	20	--	--		30
31	WATER HEATER	--	--	20	2	0	0	0	0	0	0	2	20	--	--	MEN'S ROOM HEAT	32
33	-	--	--	0	0	0	0	0	0	0	0	1	20	--	--		34
35	CEILING UNIT	--	--	20	2	0	0	0	0	0	0	2	20	--	--	LADIES ROOM HEAT	36
37	-	--	--	0	0	0	0	0	0	0	0	1	20	--	--		38
39	DOOR OPENER	--	--	20	2	0	0	0	0	0	0	2	20	--	--	KITCHENETTE HEAT	40
41	-	--	--	0	0	0	0	0	0	0	0	1	20	--	--		42

NAME: P5 PANEL SCHEDULE MODIFIED

MOUNTING:	RECESSED	VOLTS:	208Y/120	PHASE:	3	WIRE:	4
MAIN RATING:	200 A	MCB:	MLO	MIN AIC RATING:		AMPS RMS SYM	
OTHER:				LOCATION:			

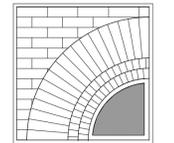
NOTES:

CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	C	A	B	C	P	BKR	WIRE	LOAD	DESCRIPTION	CKT
1	CUH-1 RR 121	564	#12	20	1	564			720			1	20	#12	720	RECEPT Room 120, 121, 123, 122	2
3	FOYER LIGHTS	--	--	20	1	0	0	0	1260			1	20	#12	1260	RECEPT Room 115, 112	4
5	OUTSIDE LIGHTS	--	--	20	1	0	0	0	720			1	20	#12	720	RECEPT MEETING ROOM 112	6
7	CUH-2 RR 123	564	#12	20	1	564			564			1	20	#12	564	CUH-3 RR 122	8
9	-	--	--	20	1	0	0	0	360			1	20	#12	360	RECEPT VESTIBULE 113	10
11	NITE-EMER LIGHTS (FRONT)	--	--	20	1	0	0	0	200			1	20	#12	200	DOOR OPERATOR VESTIBULE 113	12
13	FLAGPOLE LIGHT	--	--	20	1	0	0	0	180			1	20	#12	180	RECEPT KITCHENETTE 116	14
15	OUTSIDE POST LIGHTS	--	--	20	1	0	0	0	180			1	20	#12	180	RECEPT KITCHENETTE 116	16
17	NORTH PARKING POLE LIGHTS	--	--	20	1	0	0	0	500			1	20	#12	500	WH-1 STOR. 116	18
19	EF-3	528	#12	20	1	528			1176			1	20	#12	1176	EF-2	20
21	FG-3	3976	#12	15	2	1989			168			1	20	#12	168	ERV-2	22
23	-	--	--	1	1	0	0	0	1989			1	50	#8	4518	LGT Room 121, 120, 123, 122, 103	24
25	-	--	--	1	1	0	0	0	812			1	20	#12	812	LGT Room 112, 115	26
27	FRONT SIGN	--	--	20	2	0	0	0	2556			2	35	#10	5112	CUH-4 VESTIBULE 113	28
29	-	--	--	2	2	0	0	0	2556			--	--	--	--		30
31	-	--	--														32
33	-	--	--														34
35	-	--	--														36
37	-	--	--														38
39	-	--	--														40
41	-	--	--														42

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**BUTLER
ROWLAND
MAYS**
ARCHITECTS, LLP

57 West High Street
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P: 518-885-1255
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