

# Phase 1 Interior Improvements to the Lower Level

for the

# The Beekman Library

11 Town Center Blvd Hopewell Junction, NY 12533

Library Director:

Carol Fortier

LibraryBoard of Trustees:

Elizabeth Scigliano, President  
Joanne Ambrosini  
Lynn Brickman  
Julie Burt  
Beth Ferguson  
Amanda Herta  
Dewey Lee  
Kate Monroe  
Jeff Silverstein

Architect:

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

Mechanical, Electrical, Plumbing Engineers:

M/E Engineering  
433 State Street  
Schenectady, NY 12305

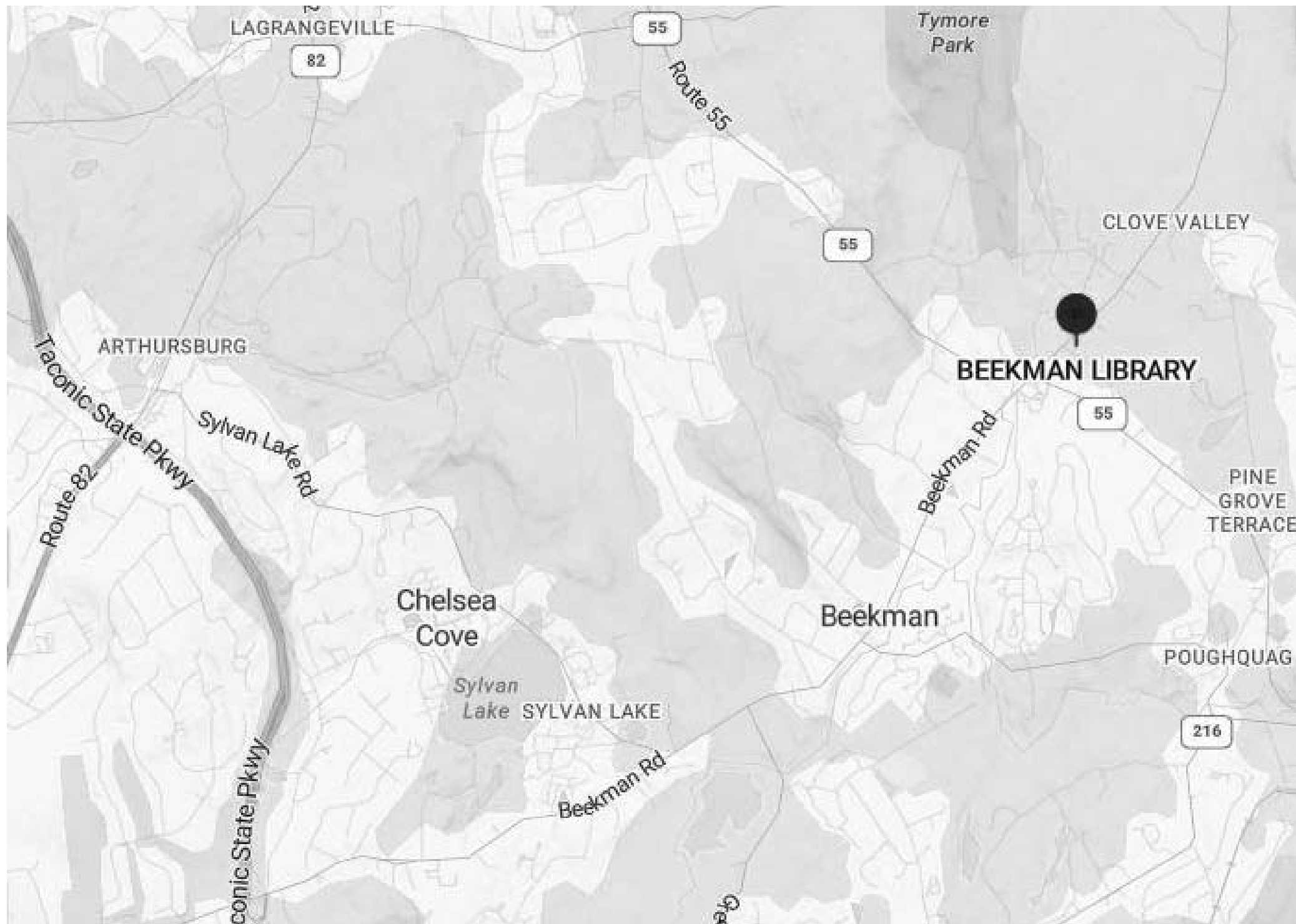
Abbreviations

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

General Notes

- G-1. DO NOT SCALE THE DRAWINGS.
- G-2. UNLESS NOTED OTHERWISE, ALL INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF GWB, CENTERLINE OF STEEL, OR EDGE OF ROUGH OPENING. ALL EXTERIOR DIMENSIONS ARE TAKEN FROM FACE OF STUD.
- 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.
- G-10. GENERAL CONTRACTOR SHALL COORDINATE REMOVALS WORK IN ACCORDANCE WITH THE HAZARDOUS MATERIALS REPORTS AND ABATMENT SPECIFICATION SECTIONS.

Location Map



Schedule of Drawings

G100 COVER

ARCHITECTURAL DRAWINGS

A100 LOWER LEVEL EXIST. PLANS  
A101 ENLG. REMOVALS PLAN & CONSTRUCTION NOTES  
A102 ENLG. PLANS  
A103 INTERIOR ELEVATIONS & DETAILS

PLUMBING DRAWINGS

P101 PLUMBING PLAN

MECHANICAL DRAWINGS

M001 GENERAL NOTES, SYMBOL LIST & ABBREVIATIONS  
MD101 HVAC – BASEMENT DEMOLITION PLAN  
M101 HVAC – BASEMENT PLAN  
M501 MECHANICAL DETAILS  
M601 HVAC SCHEDULES

ELECTRICAL DRAWINGS

E001 ELECTRICAL LEGEND & ABBREVIATIONS  
ER100 LOWER LEVEL POWER & SYSTEMS REMOVALS PLAN  
ER200 LOWER LEVEL LIGHTING REMOVALS PLAN  
E100 LOWER LEVEL POWER & SYSTEMS PLAN  
E200 LOWER LEVEL LIGHTING PLAN  
E500 ELECTRICAL DETAILS

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 2020 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 THEREWITHIN.



024705

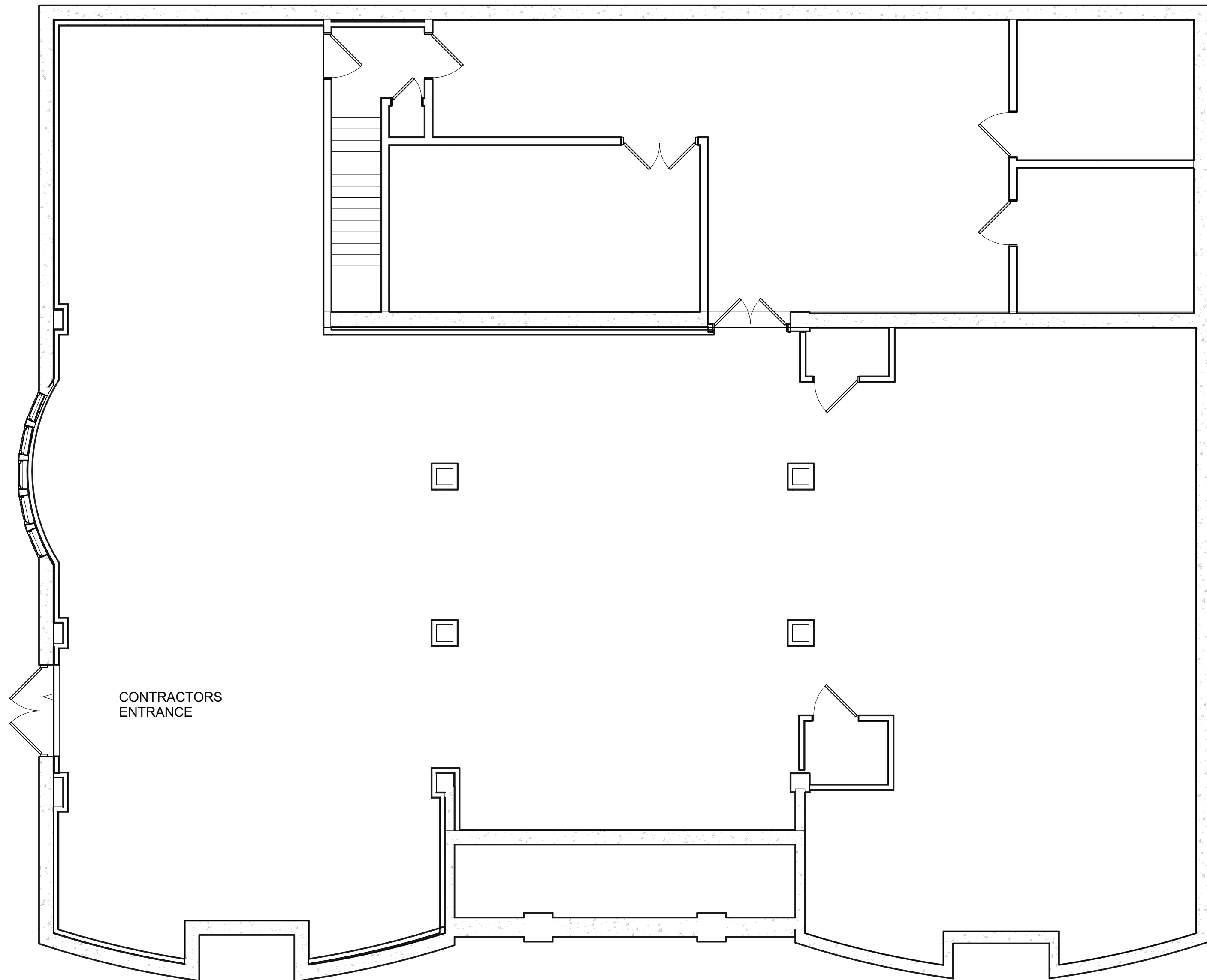
12/31/2023

STEVEN G. ROWLAND, RA

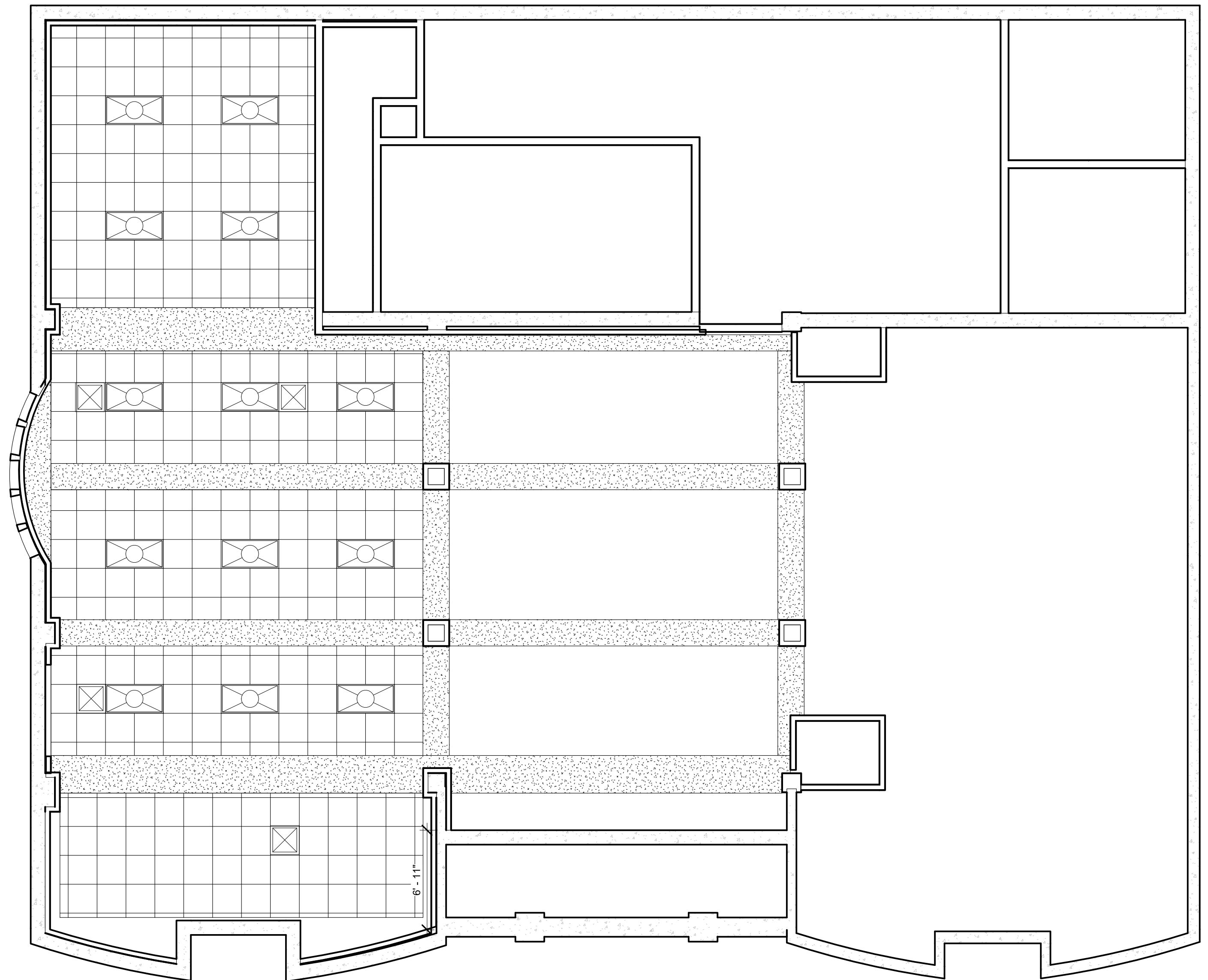
NYS REGISTRATION No.

EXP.

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 (NEHRP).



1 LOWER LEVEL EXIST. CONDITIONS  
PLAN  
3/16" = 1'-0"

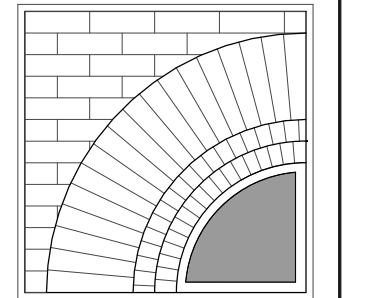


2 EXIST. CONDITIONS REFLECTED  
CEILING PLAN  
3/16" = 1'-0"

9/22/2022 Bid Set

ISSUES AND REVISIONS

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE ALTERED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020  
P: 518•885•1255  
F: 518•885•1266  
www.brmaarchitects.com

**The Beekman  
Library**

Phase 1 Interior  
Improvements to the  
Lower Level

11 Town Center Boulevard  
Hopewell Junction, NY 12533

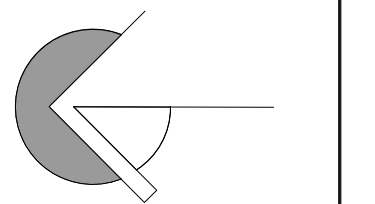
PROJECT

CONSULTANT



REG. EXP.: 12/31/2023

STAMP



CALLED NORTH

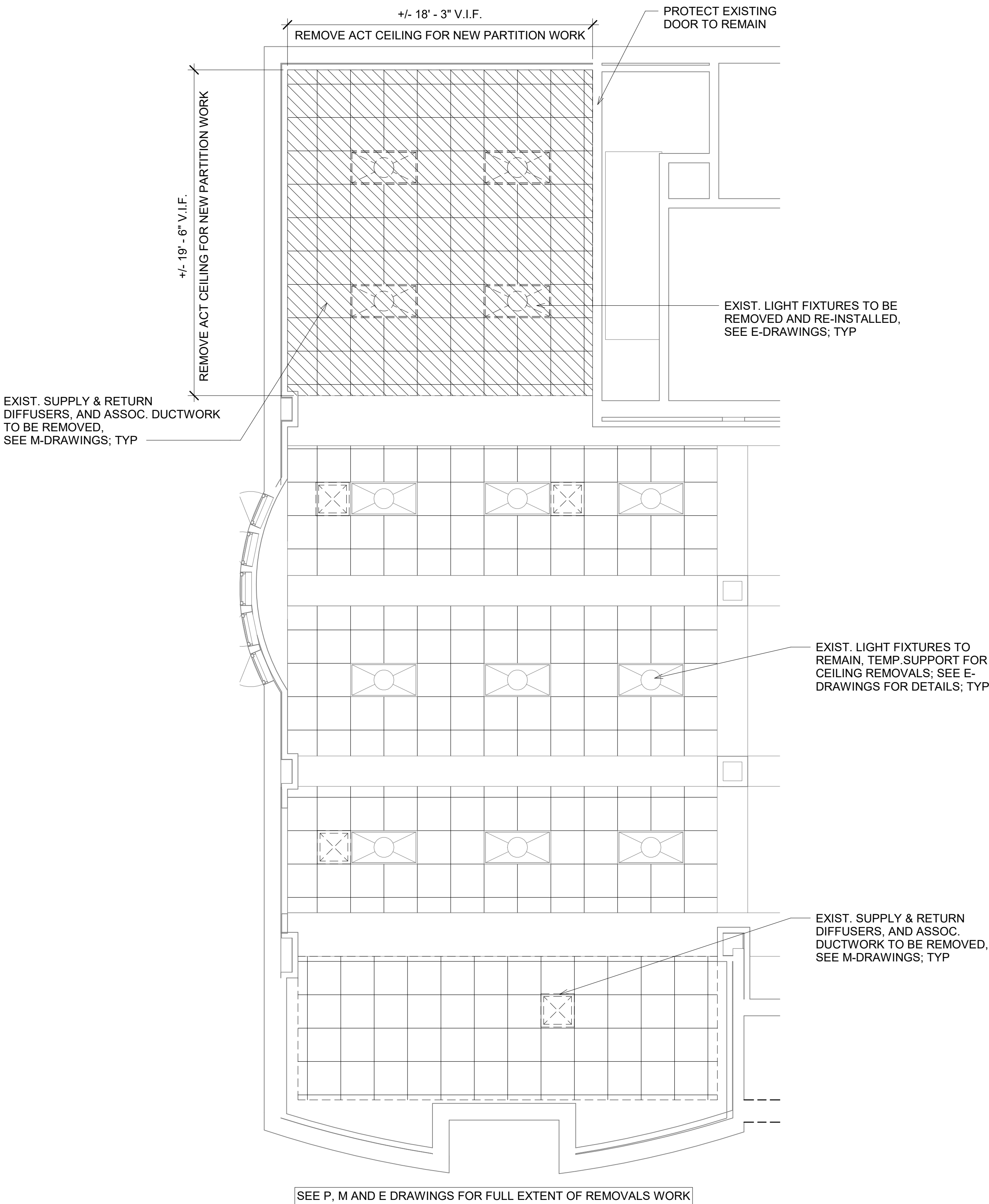
DWN. BY: MB  
SCALE: 3/16" = 1'-0"  
JOB NO.: 22-46-99  
DATE: 03/08/23

**LOWER  
LEVEL  
EXIST.  
PLANS**

TITLE

**A100**

DWG. NO.



ENLARGED EXIST. CONDITIONS  
REFLECTED CEILING PLAN  
1/4" = 1'-0"

CONSTRUCTION NOTES (applicable to all A-drawings):

- M1 INTERIOR PARTITIONS: LIGHT GAUGE, COLD FORMED STEEL FRAMING, MIN. 25 GAUGE, SPACED 16" OC.; PROVIDE DOUBLE 20 GA STUDS AT ALL SIDES OF NEW OPENINGS.
- M2 WALL BOARD: 5/8" FIRE RATED GYPSUM WALL BOARD, UL RATED TYPE X, ENDS SQUARE CUT, TAPERED, BEVELED EDGES. PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN WET LOCATIONS, 5/8" THICK, UL RATED TYPE X, ENDS SQUARE CUT, TAPERED, BEVELED EDGES. PROVIDE ALL METAL EDGE TRIMS AND CORNER BEADS: TAPE AND FINISH COMPLETELY. LEVEL 5 FINISH FOR ALL NEW WORK.
- M3 WOOD DOORS: 36x84" FACTORY FINISHED, FLUSH FACED, 1 3/4" SOLID CORE, WITH PLAIN SLICED WHITE MAPLE VENEER FACES, CONFORMING TO AWI QUALITY STANDARDS AND TO U.L. AND NFPA 80 REQUIREMENTS FOR RATED DOORS, BY ALGOMA, EGGERS, WEYERHAEUSER, OR EQ. DOORS TO HAVE LIFETIME GUARANTEE.
- DOORS 001 AND 004 TO RECEIVE HALF-LITE VISION PANEL w/ 1/4" FULLY TEMPERED GLAZING.
- ALL DOORS TO RECEIVE: 3 EA 58B1 4.5X4.5 HINGE BY IVES; CLASSROOM LOCK T581L QUA BY FALCON; K-I-L CYLINDER 24-031 EC29 T. 1450 CLOSER w/ CUSH-N-STOP HD HOLD ON PARALLEL ARM BY LCN; WALL STOP WS406/407 CVX BY IVES. ALL HARDWARE TO HAVE FINISH 652 OR 626 OR SIM FINISH. PROVIDE TOP & BOTTOM SURFACE MOUNTED FLUSH BOLTS AT INACTIVE LEAF OF DOOR 004.
- M4 INTERIOR HOLLOW METAL DOOR FRAMES: KNOCK DOWN TYPE, CONFORMING TO SDI-100 SPECIFICATIONS, 16 GAUGE, PRIMED COATED, REINFORCED FOR HARDWARE AS REQUIRED. CONFORM WITH APPLICABLE U.L. & F.M. REQUIREMENTS FOR RATED FRAMES. APPROPRIATE U.L. LABELS TO BE VISIBLE IN INSTALLED POSITION, DO NOT COVER WITH PAINT.
- M5 NEW ACOUSTIC CEILING SYSTEMS: 9/16" SUSPENDED GRID SYSTEM WITH PERIMETER MOLDINGS, SUPPORT CHANNELS AND HANGERS, ETC., AND 2x2 CIRRUS TILES WITH BEVELED TEGULAR EDGE, 1/4" THICKNESS, WHITE, BY ARMSTRONG OR EQUAL.
- M6 LAMINATE WALLS PANELS: INSTALL CEMENTITIOUS BACKER UNITS ON METAL STUDS OVER WATERPROOF MEMBRANE. STUD CAVITIES TO BE FILLED WITH MINERAL WOOL INSULATION. PROVIDE WILSONART WET WALL PRO 4X8 PANEL SYSTEM, INSTALL PER MANUFACTURER'S INSTRUCTIONS. PATTERN/COLOR TO BE SELECTED FROM FULL MANUFACTURER'S FULL RANGE. USE APPROPRIATE SCHULTER TRIM FOR INSIDE AND OUTSIDE CORNERS, COVES, CAPS, ETC. FOLLOW "TCA HANDBOOK FOR CERAMIC TILE INSTALLATION" RECOMMENDED METHOD FOR FIRE-RATED WALLS #RW816.
- M7 CERAMIC TILE AT RESTROOM FLOORS: TYPICAL TOILET ROOM CERAMIC TILE FLOORS TO BE INSTALLED OVER EXISTING CONCRETE FLOOR SLAB USING LATEX-PORTLAND CEMENT MORTAR AND GROUTED WITH LATEX-PORTLAND CEMENT GROUT. PROVIDE ALL REQUIRED FLOOR PREP AS APPLICABLE. USE APPROPRIATE BASE AND TRIM TILES AS REQUIRED. INCLUDING HANDICAP ACCESSIBLE MARBLE THRESHOLDS. TILE TO BE DALTILE SCRIPTR GLAZED PORCELAIN WITH STEPWISE OR EQUAL, IN SIZE, STYLE AND COLORS TO BE SELECTED. FOLLOW "TCA HANDBOOK FOR CERAMIC TILE INSTALLATION" METHOD F113.
- M8 FINISH FLOORING AT COMMUNITY ROOM & KITCHENETTE: TO BE INTERFACE, LLC NATURAL WOODGRAINS COLLECTION LVT (LUXURY VINYL TILE), COLOR/PATTERN TO BE SELECTED FROM MANUFACTURER'S FULL RANGE; 4" JOHNSONITE RUBBER COVE BASE, COLOR TO BE SELECTED FROM MANUFACTURER'S FULL COLOR LINE.
- M9 WALL AND BASE CABINETS TO BE MERILLAT MASTERPIECE SERIES, "TURNER" STILE & RAIL DOORS, FULL OVERLAY, CHERRY WOOD, STAIN COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD RANGE. PROVIDE ADJUSTABLE SHELVES, FINISHED BOXES, GRASS 125 DEGREE SELF-CLOSING, CONCEALED HINGES, GRASS ELITE 19 SERIES SELF CLOSING w/ INTEGRAL SIDES DRAWER SLIDES, COMP X DISC TUMBLER CAM LOCK, MAGNETIC CATCHES, ADA PULLS, ETC. FOR COMPLETE INSTALLATION.
- 1x4 PAINTED CORNER TRIMS, FULL HEIGHT FLOOR TO CEILING; PROVIDE 1x8 PAINTED CAP & BASE TRIMS

PAINTING NOTES

ACCEPTABLE PAINT MANUFACTURERS ARE BENJAMIN MOORE AND SHERWIN WILLIAMS. COLORS TO BE SELECTED FROM FULL RANGE OF MANUFACTURER'S COLORS, SCHEDULE TO BE PROVIDED BY ARCHITECT.

ALL SURFACES TO BE PAINTED MUST BE FREE FROM DEFECTS AND BLEMISHES WHICH MIGHT ADVERSELY AFFECT FINISH QUALITY. ALL SURFACES NOT BEING PAINTED ARE TO BE PROTECTED FROM PAINT AND DAMAGE. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR APPLICATION PROCEDURES.

ALL NEW & EXISTING GWB WALL & CEILING FINISHES IN WORK AREA TO RECEIVE NEW PAINT FINISH.

PRODUCT SCHEDULE:  
HOLLOW METAL FRAMES: 1 COAT METAL PRIMER & 2 COATS SEMI-GLOSS ENAMEL, ALKYD

GYPSUM BOARD WALL SURFACES: 1 COAT PRIMER & 2 COATS ACRYLIC LATEX ENAMEL, EGGSHELL

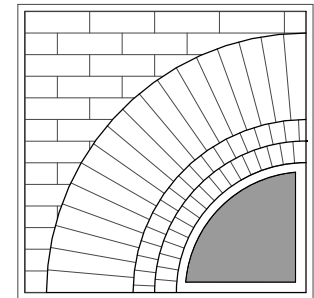
GYPSUM BOARD CEILING SURFACES: 1 COAT PRIMER & 2 COATS ACRYLIC LATEX ENAMEL, FLAT

PAINTED TRIMS: - 1 COAT PRIMER SEALER & 2 COATS LATEX ENAMEL, SEMI-GLOSS

9/22/2022 Bid Set

ISSUES AND REVISIONS

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE ALTERED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020  
P: 518•885•1255  
F: 518•885•1266  
www.brmaarchitects.com

**The Beekman  
Library**

Phase 1 Interior  
Improvements to the  
Lower Level

11 Town Center Boulevard  
Hopewell Junction, NY 12533

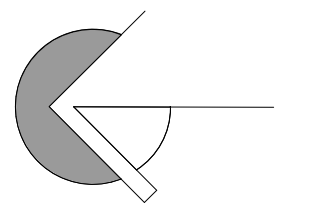
PROJECT

CONSULTANT



REG. EXP.: 12/31/2023

STAMP



CALLED NORTH

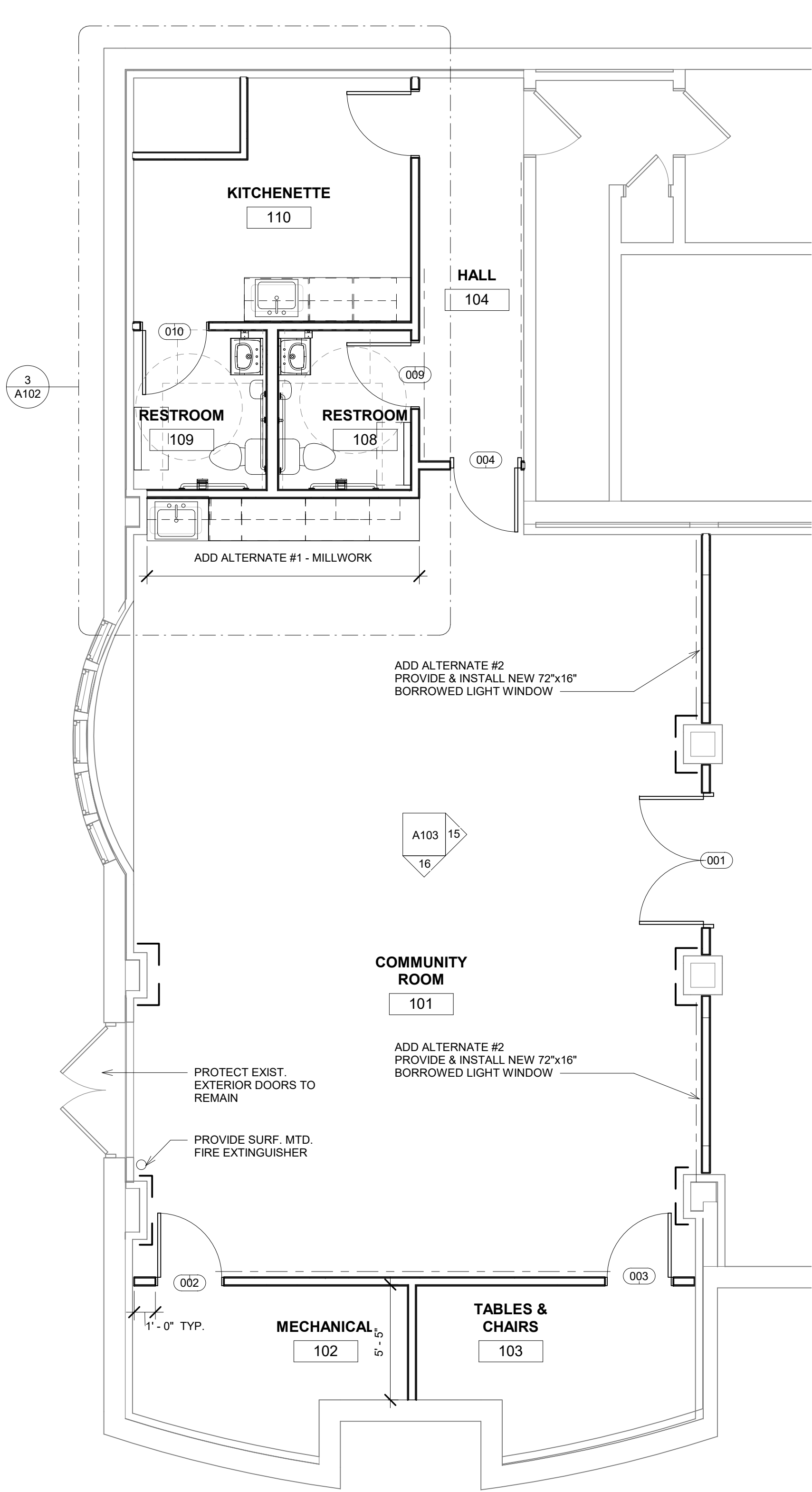
DWN. BY: MB  
SCALE: 1/4" = 1'-0"  
JOB NO.: 22-46-89  
DATE: 07/17/23

**ENLG.  
REMOVALS  
PLAN &  
CONSTR.  
NOTES**

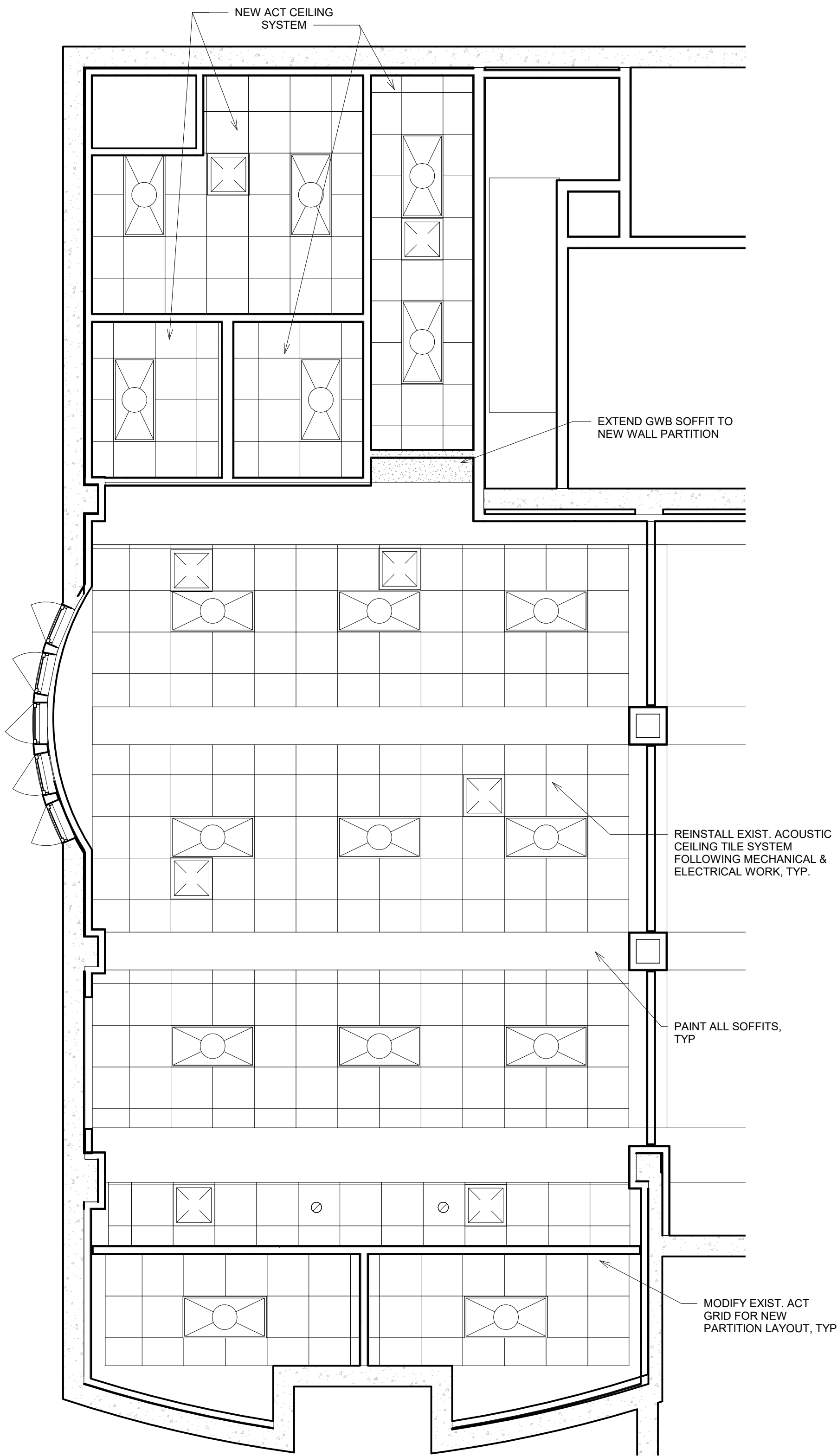
TITLE

**A101**

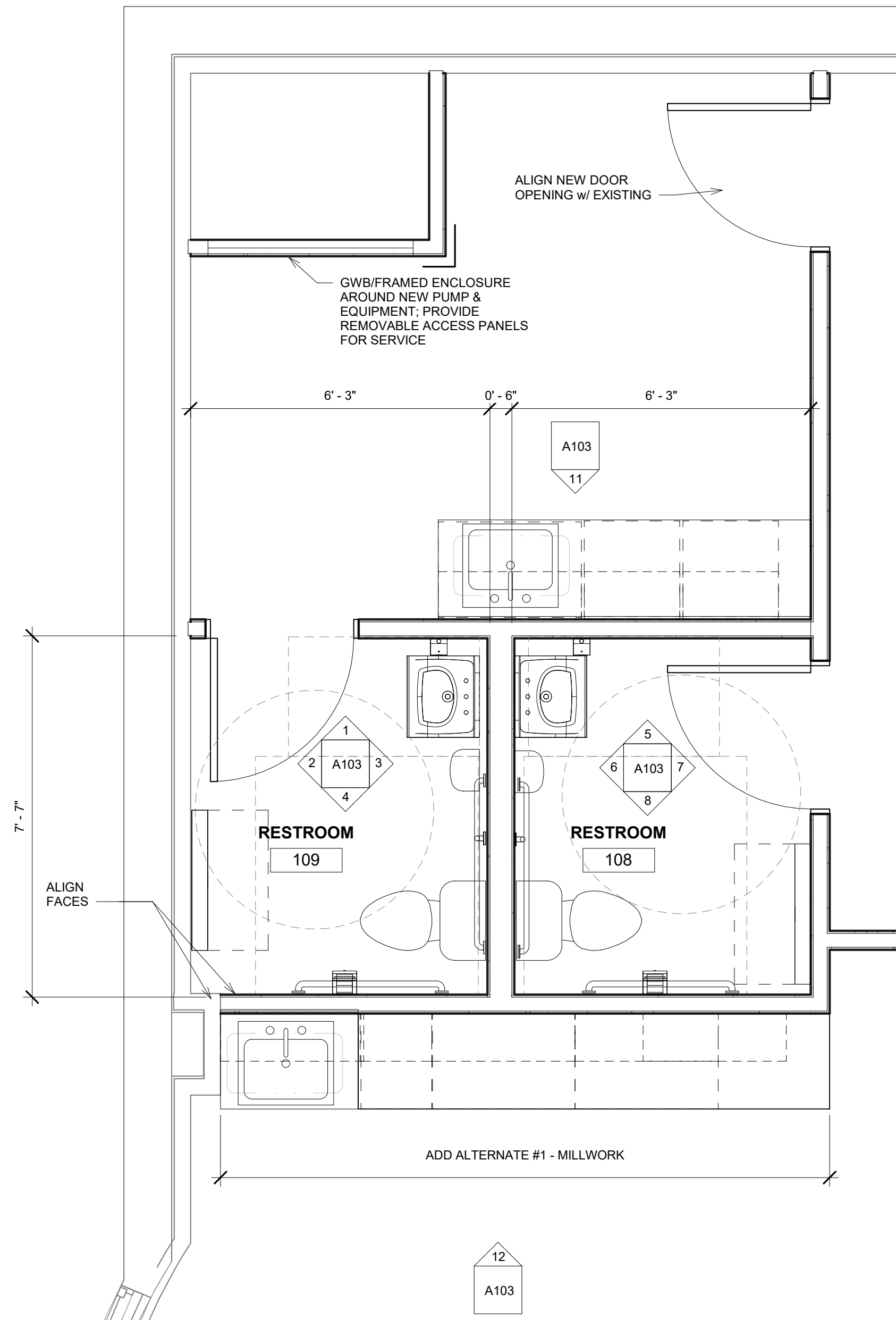
DWG. NO.



1 ENLARGED PARTIAL FLOOR PLAN  
1/4" = 1'-0"



2 ENLARGED PARTIAL REFLECTED  
CEILING PLAN  
1/4" = 1'-0"

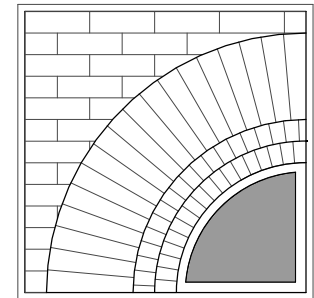


3 ENLARGED RESTROOMS PLAN  
1/2" = 1'-0"

9/22/2022 Bid Set

ISSUES AND REVISIONS

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE ALTERED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020  
P: 518•885•1255  
F: 518•885•1266  
www.brmaarchitects.com

**The Beekman  
Library**

Phase 1 Interior  
Improvements to the  
Lower Level

11 Town Center Boulevard  
Hopewell Junction, NY 12533

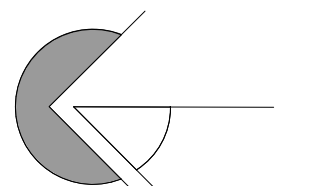
PROJECT

CONSULTANT



REG. EXP.: 12/31/2023

STAMP



CALLED NORTH

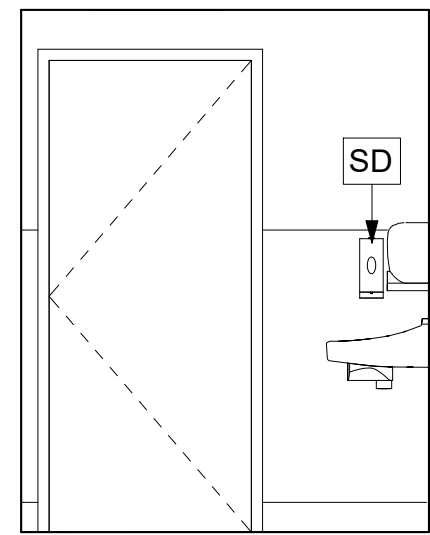
DWN. BY: MB  
SCALE: As Indicated  
JOB NO.: 22-46-89  
DATE: 05/05/23

**ENLG.  
PLANS**

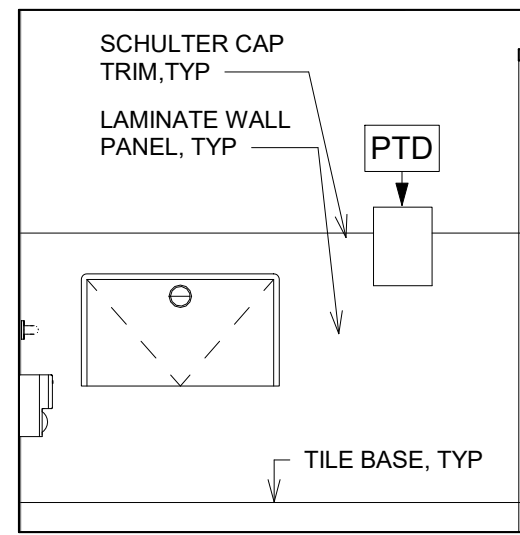
TITLE

**A102**

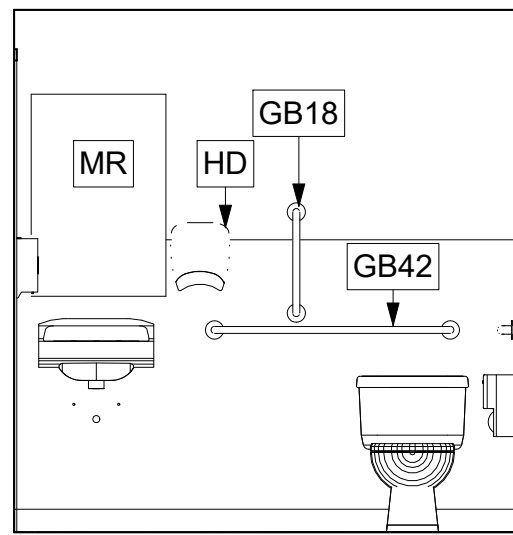
DWG. NO.



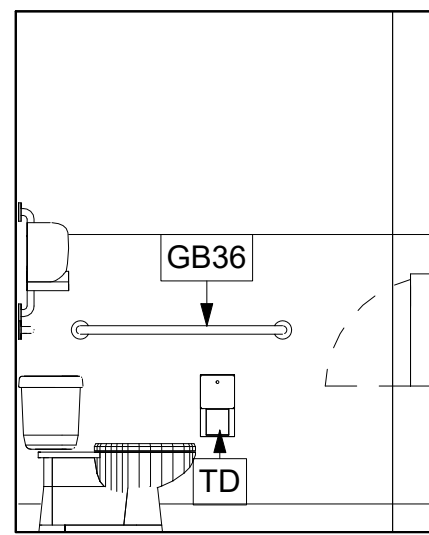
1 RR 109 EAST ELEVATION  
3/8" = 1'-0"



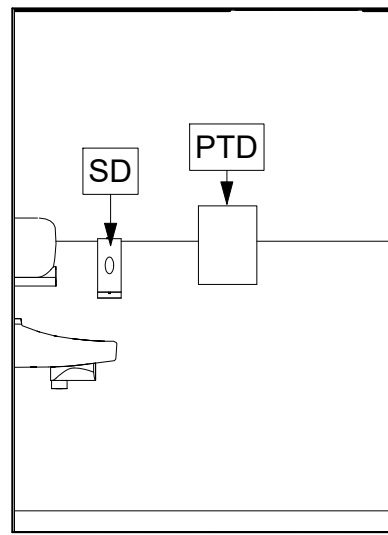
2 RR 109 NORTH ELEVATION  
3/8" = 1'-0"



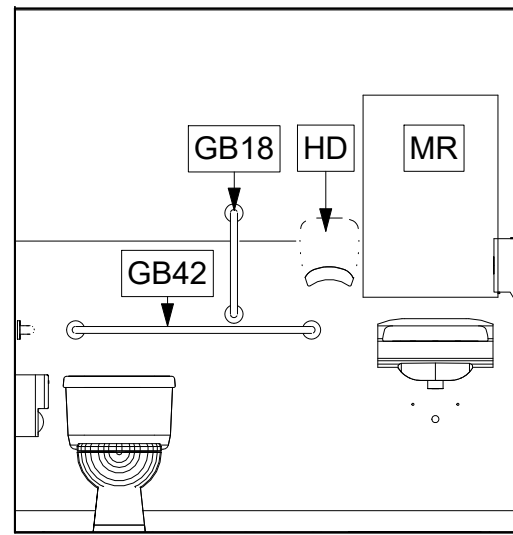
3 RR 109 SOUTH ELEVATION  
3/8" = 1'-0"



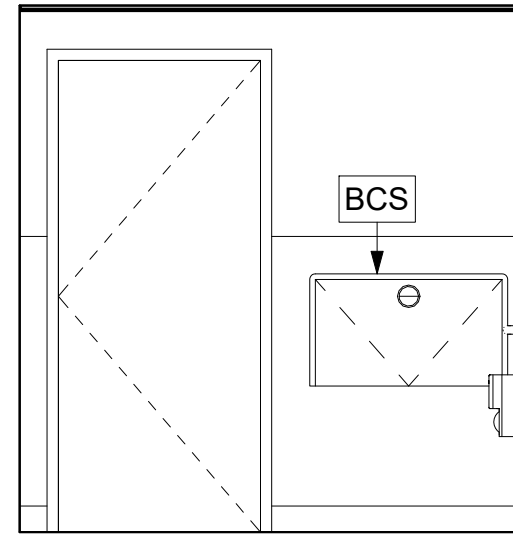
4 RR 109 WEST ELEVATION  
3/8" = 1'-0"



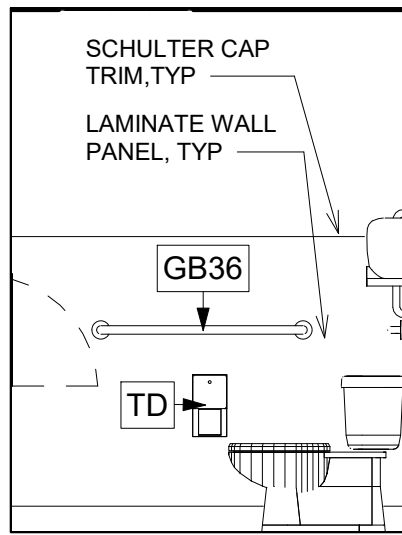
5 RR 108 EAST ELEVATION  
3/8" = 1'-0"



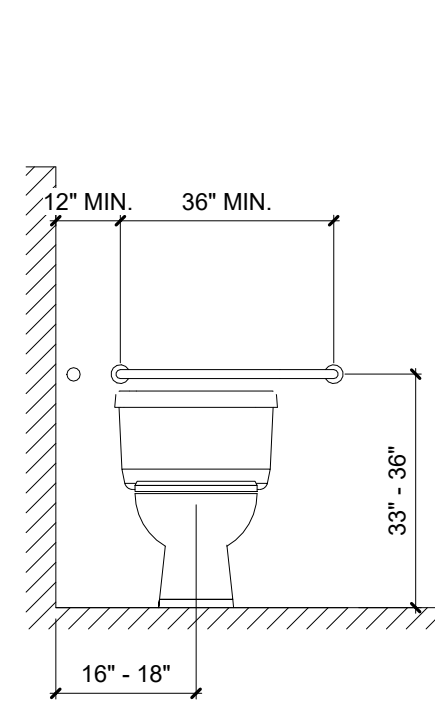
6 RR 108 NORTH ELEVATION  
3/8" = 1'-0"



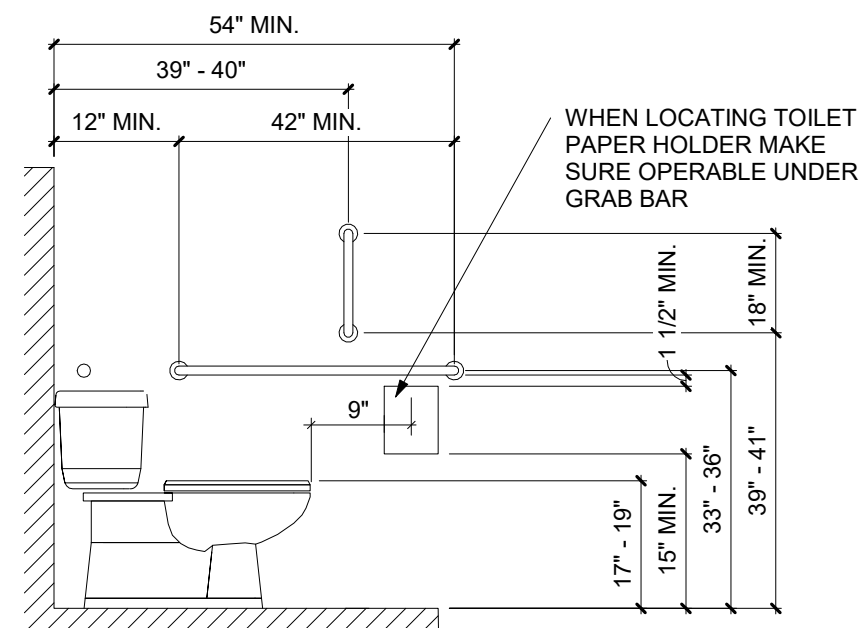
7 RR 108 SOUTH ELEVATION  
3/8" = 1'-0"



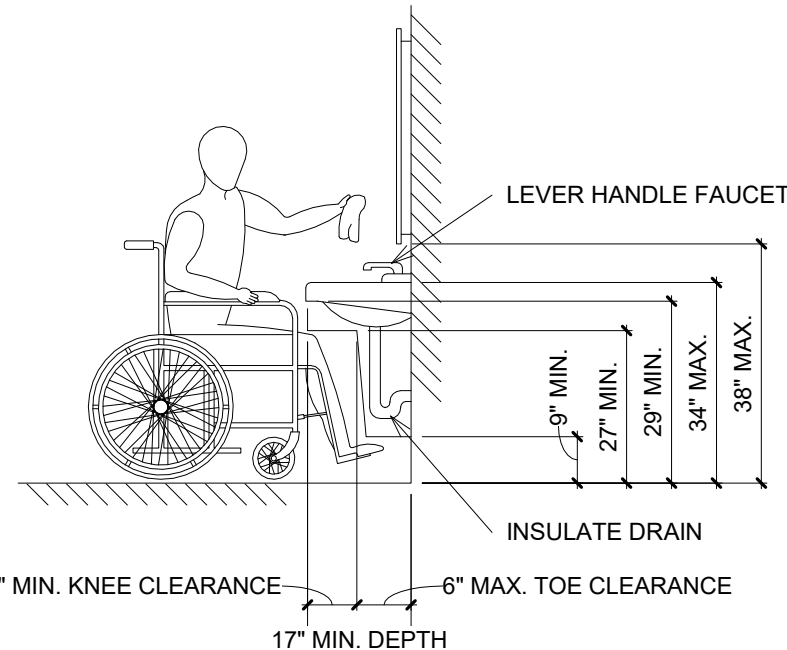
8 RR 108 WEST ELEVATION  
3/8" = 1'-0"



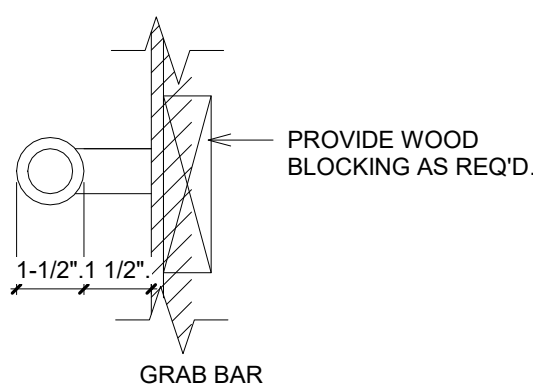
BACK WALL ELEVATION



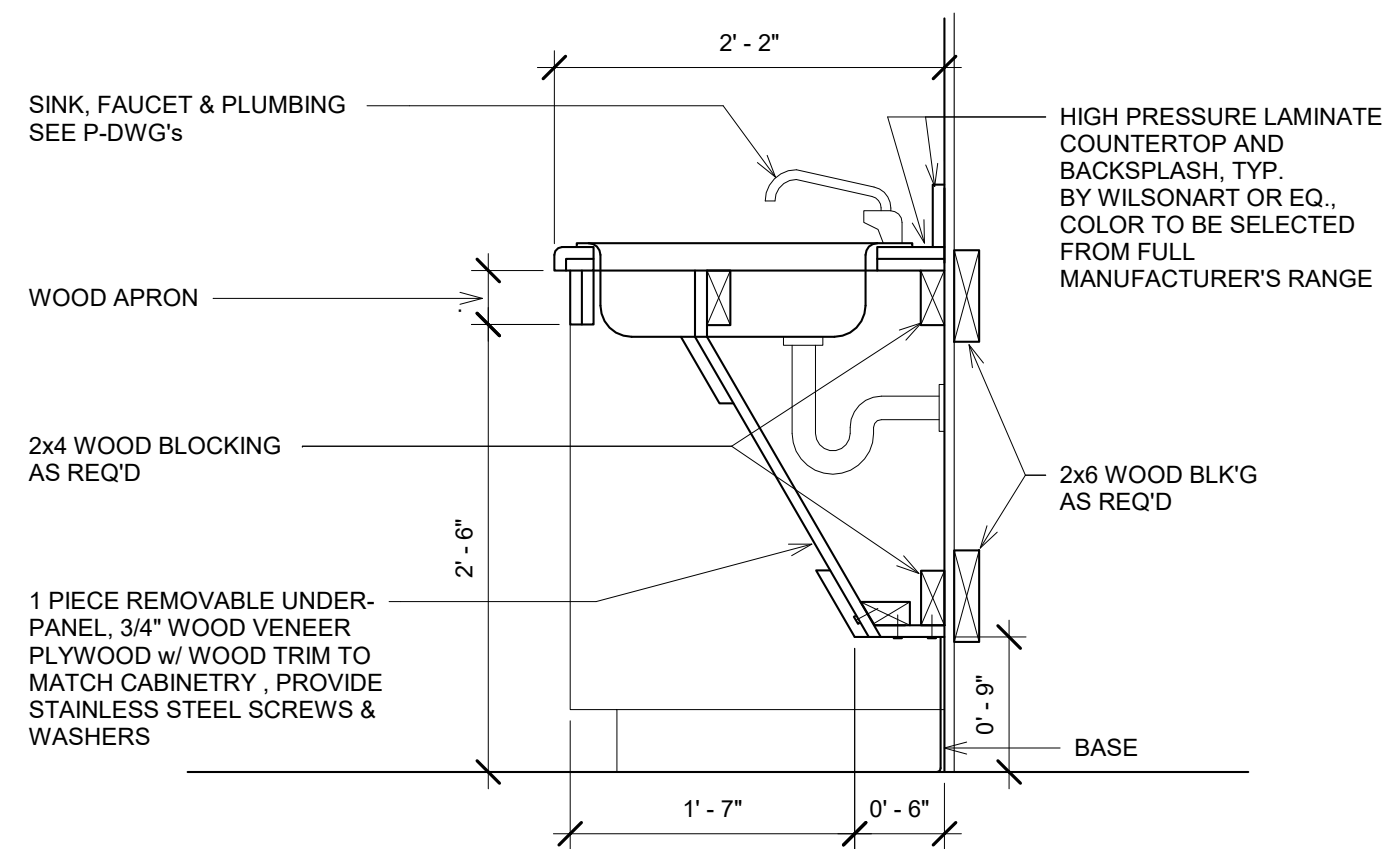
SIDE WALL ELEVATION



LAVATORY CLEARANCE



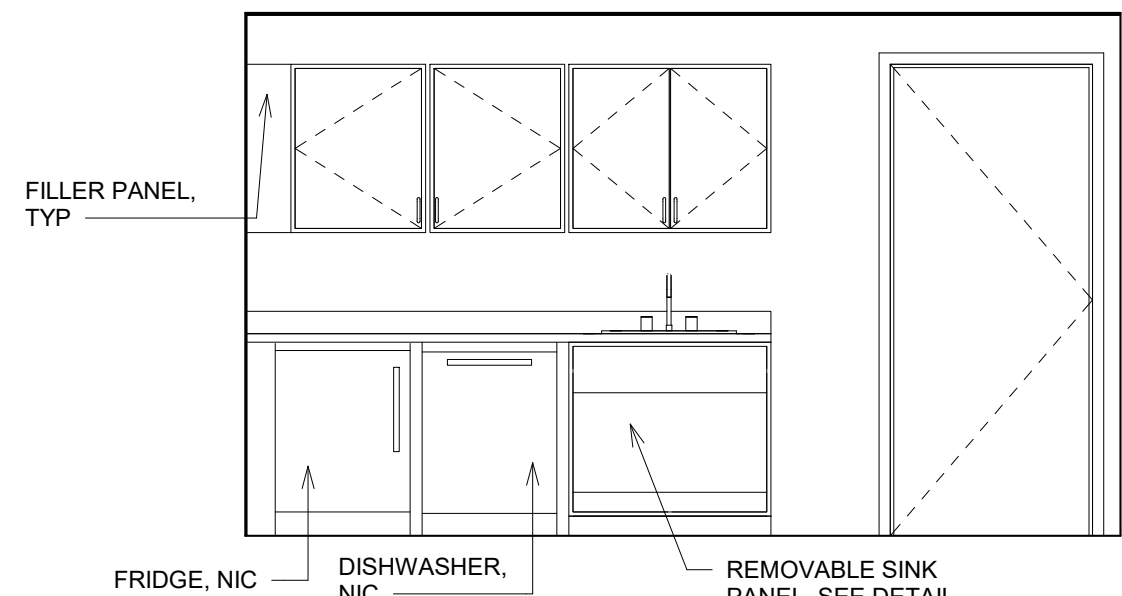
GRAB BAR



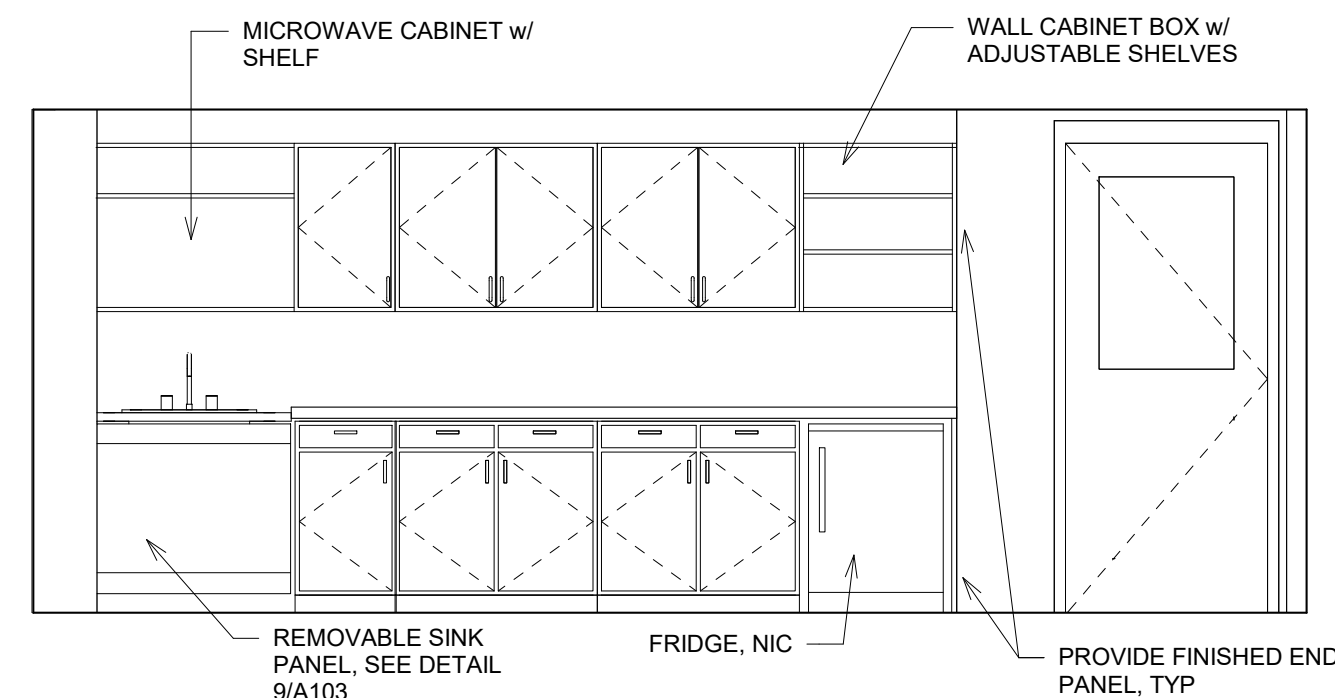
9 SECTION AT SINK  
1" = 1'-0"

10 TYPICAL RESTROOM INSTALLATION  
GUIDELINES  
1/4" = 1'-0"

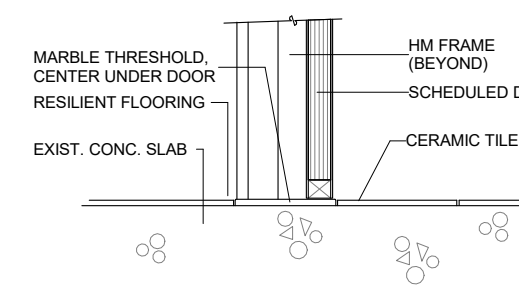
REFER TO CURRENT ADA AND ANSI GUIDELINES FOR ACCESSIBLE CLEARANCES & MOUNTING REQUIREMENTS



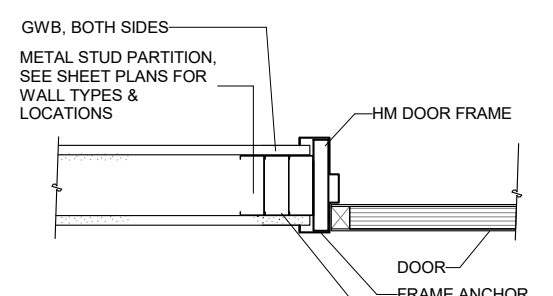
11 KITCHENETTE ELEVATION  
3/8" = 1'-0"



12 COMMUNITY ROOM MILLWORK - ADD  
ALT #1  
3/8" = 1'-0"

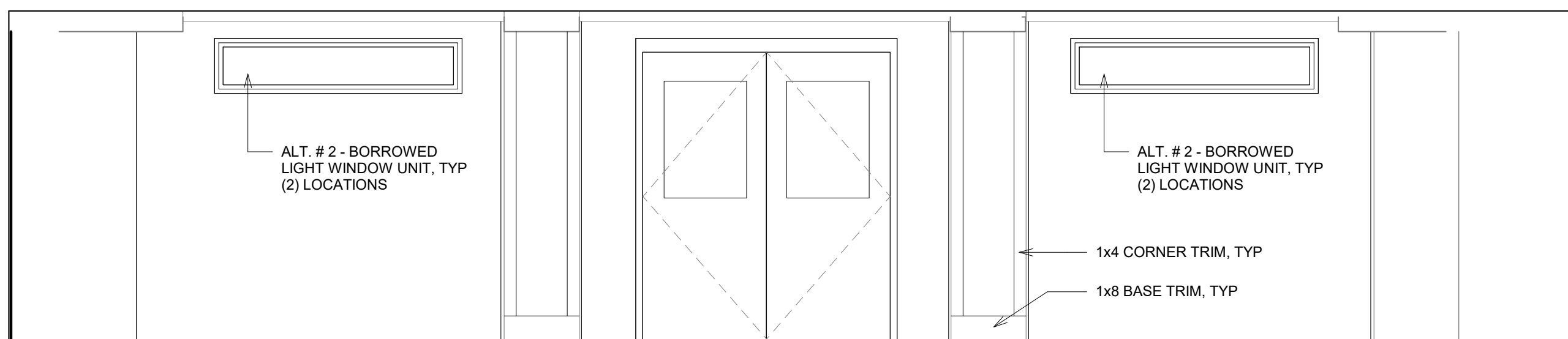


1 SILL DETAIL @ RESTROOMS

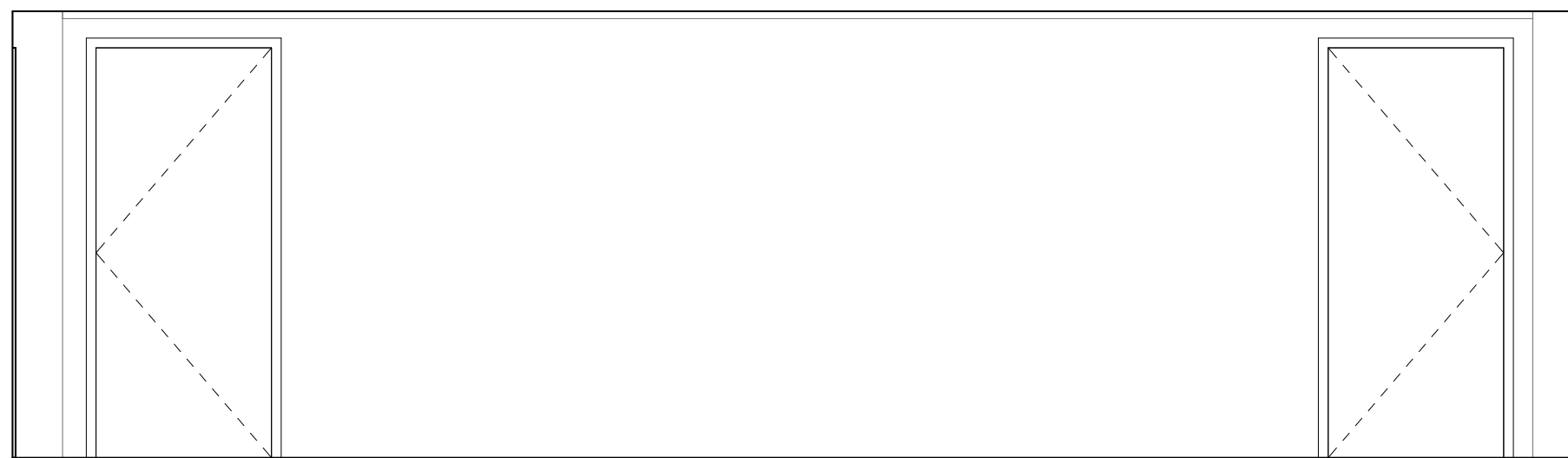


2 TYP. JAMB DETAIL

13 DOOR DETAILS  
1" = 1'-0"



15 COMMUNITY ROOM SOUTH INT.  
ELEVATION  
3/8" = 1'-0"



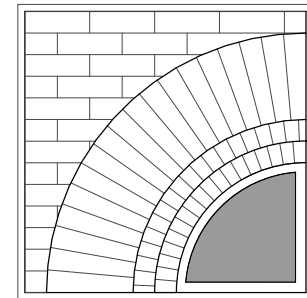
16 COMMUNITY ROOM WEST INT.  
ELEVATION  
3/8" = 1'-0"

TOILET ROOM ACCESSORIES	
MARK	ACCESSORY
TD	TOILET PAPER DISPENSER: TOILET TISSUE DISPENSER FOR TWO ROLLS, BOBRICK CLASSIC SERIES MODEL B-2740
PTD	PAPER TOWEL DISPENSER: SURFACE-MOUNTED PAPER-TOWEL DISPENSERS, BOBRICK CLASSIC SERIES MODEL B-262 PROVIDE NECESSARY SURFACE BLOCKING FOR WALL INSTALLATION.
MR	MIRROR: STAINLESS STEEL CHANNEL FRAME MIRRORS, BOBRICK MODEL B-165 2436
GB	GRAB BAR: STRAIGHT GRAB BAR WITH PEENED SURFACE, AS SIZE INDICATED ON DRAWINGS. BOBRICK MODEL B-5806x36 BOBRICK MODEL B-5806x42 BOBRICK MODEL B-5806x18
FCT	FOLDING CHANGING TABLE: BOBRICK MODEL KB110-SSWM
CH	COAT HOOK: HEAVY-DUTY CLOTHES HOOKS, BOBRICK MODEL B-211
SD	SOAP DISPENSER: SURFACE MOUNTED SOAP DISPENSER, BOBRICK MODEL B-2111
HD	HAND DRYER: BOBRICK B-778 * CONTRACTOR TO PROVIDE REQUIRED ELECTRICAL WIRING FOR COMPETET INSTALLATION PROVIDE NECESSARY SURFACE BLOCKING FOR WALL INSTALLATION.
GENERAL NOTES - THIS SHEET	
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

9/22/2022 Bid Set

#### ISSUES AND REVISIONS

© THIS DRAWING AND THE CONTENTS THEREOF  
ARE THE SOLE AND COPYRIGHTED PROPERTY  
OF BUTLER ROWLAND MAYS ARCHITECTS, LLP  
AND MAY NOT BE ALTERED, COPIED OR  
REPRODUCED BY ANY METHOD FOR ANY  
PURPOSE WITHOUT THE EXPRESS WRITTEN  
CONSENT OF BUTLER ROWLAND MAYS  
ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarshitects.com

The Beekman  
Library

Phase 1 Interior  
Improvements to the  
Lower Level

11 Town Center Boulevard  
Hopewell Junction, NY 12533

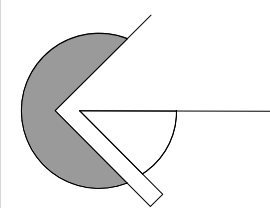
#### PROJECT

#### CONSULTANT



REG. EXP.: 12/31/2023

#### STAMP



CALLED NORTH

DWN. BY: MB  
SCALE: As Indicated  
JOB NO.: 22-46-09  
DATE: 07/17/23

**INTERIOR  
ELEVATIONS  
& DETAILS**

TITLE

**A103**

DWG. NO.



PLUMBING FIXTURE CONNECTION SCHEDULE							REMARKS
TAG NO.	DESCRIPTION	COLD WATER	HOT WATER	WASTE	SANITARY	VENT	
WC-A	WATER CLOSET ADA	1"	-	-	3"	2"	FLOOR MOUNTED TWO PIECE TANK TYPE, MANUAL FLUSH VALVE, HEAVY DUTY SEAT - OPEN FRONT, LESS COVER
LV-A	LAVATORY ADA	1/2"	1/2"	1-1/2"	-	1-1/2"	WALL MOUNT CHINA LAV, MANUAL FAUCET, GRID STRAINER, MANUAL DECK MOUNTED FAUCET, ADA WRISTBLADES, ADA COVERS
SK-A	SINK	1/2"	1/2"	1-1/2"	-	1-1/2"	DROP IN, S/S DOUBLE BOWL, KITCHEN SINK SINGLE LEVER STYLE FAUCET, 2.0 AERATOR

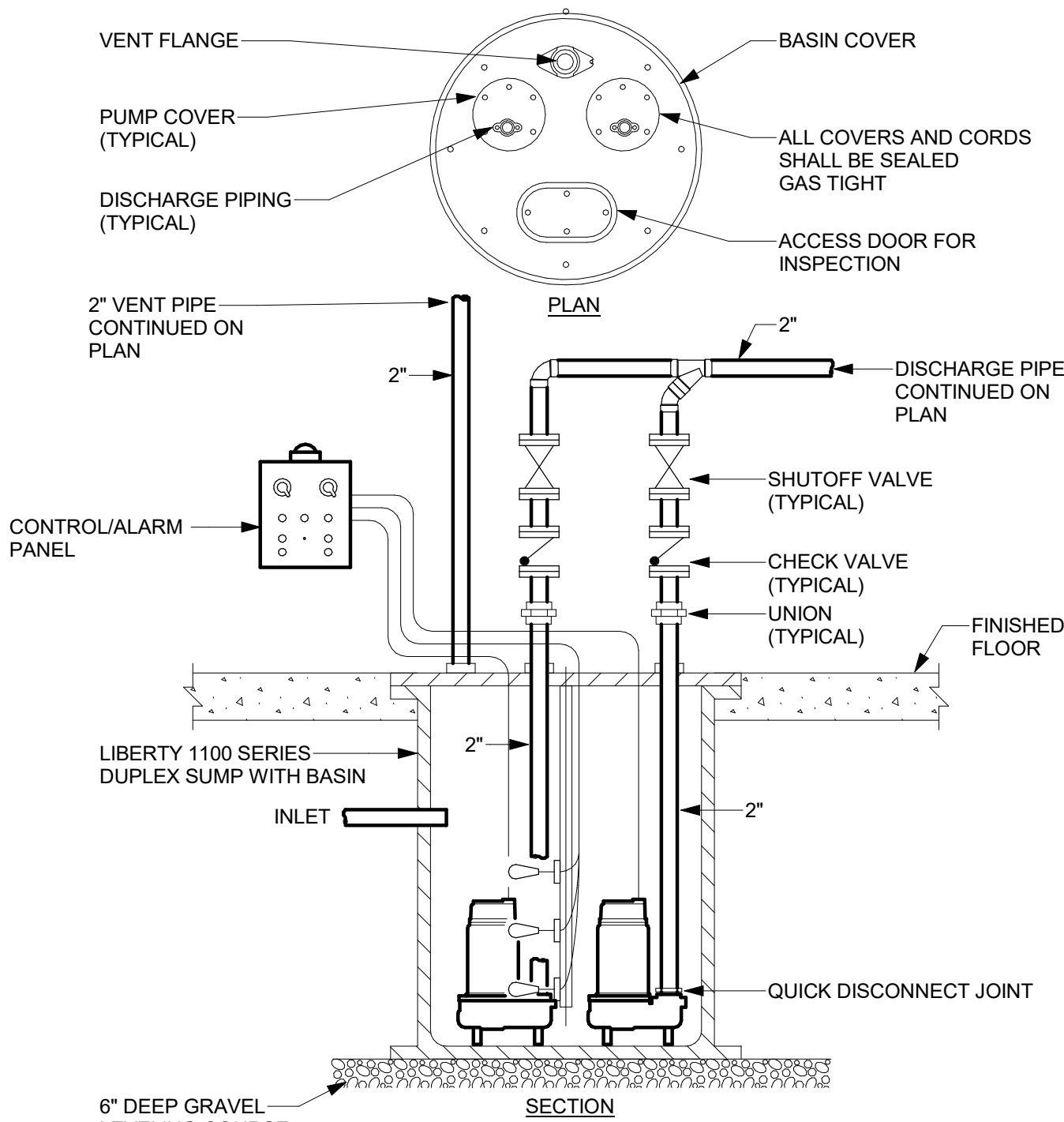
PUMP SCHEDULE										
NO.	LOCATION	SERVICE	GPM	HEAD FT WATER	MOTOR				TYPE	DESIGN MAKE
					HP	VOLTAGE	PHASE	RPM		
PP-1	ROOM 29	SEWAGE	40	85	2	208-230	1	3250	SEWAGE	LIBERTY 1100/LE102A DUPLEX

PLUMBING SYMBOL LIST	
SYMBOL	DESCRIPTION
NTS	NOT TO SCALE
(E)	EXISTING
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
(E)	EXISTING PIPING
●	COLD WATER PIPING (CW)
●●	HOT WATER PIPING (HW)
SAN	SANITARY SEWER PIPING
IW	INDIRECT WASTE PIPING (IW)
---	VENT PIPING
---	ELBOW DOWN
---	45° OFFSET
---	ELBOW UP
---	BOTTOM/TEE CONNECTION
---	TOP TEE CONNECTION
---	"P" TRAP
---	PIPE CONTINUATION
---	CAP OR PLUG
---	DECK PLATE CLEANOUT (DPCO)
---	WALL PLATE CLEANOUT (WPCO)
---	CLEANOUT (CO)
●	SHUT OFF VALVE

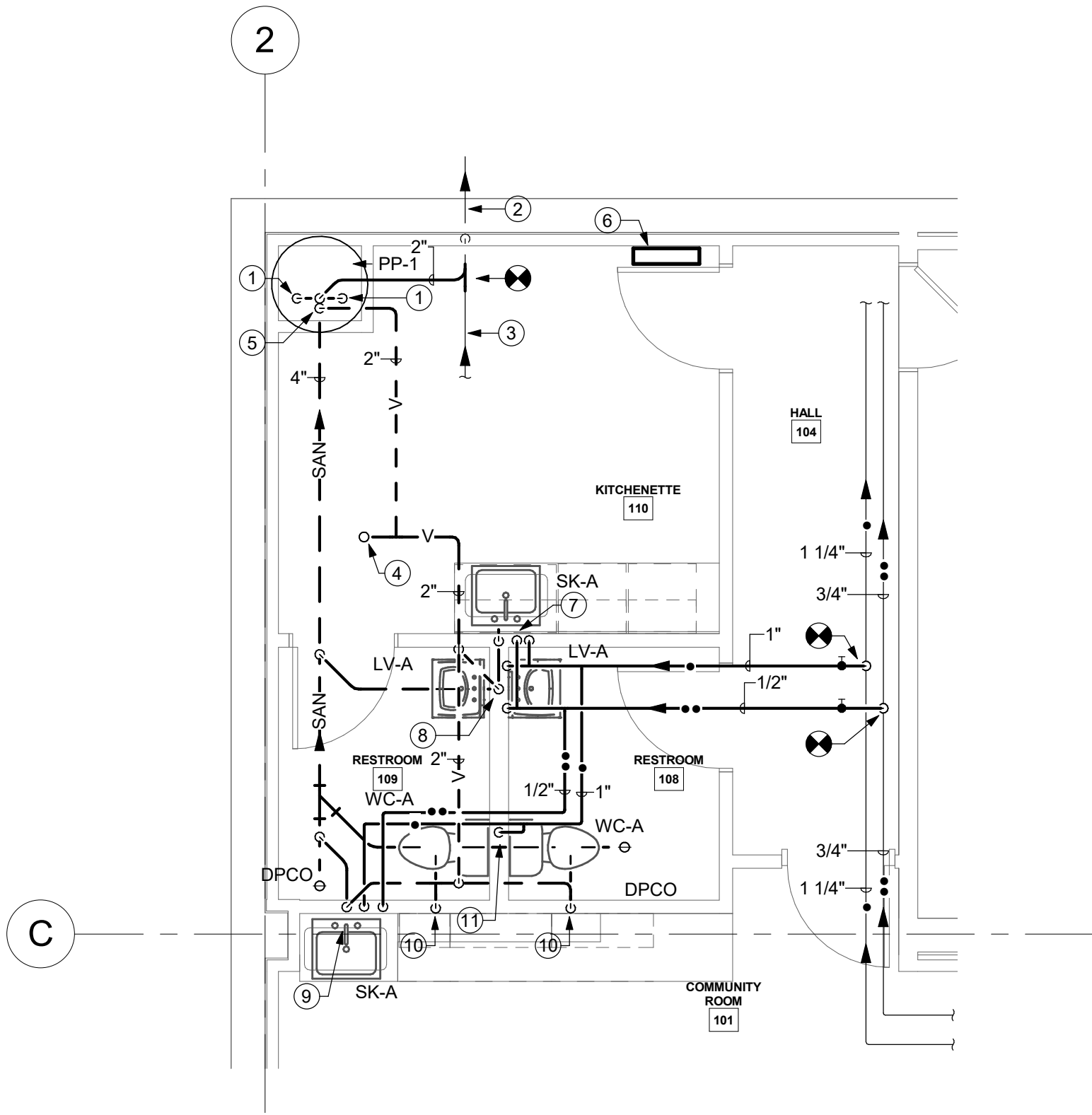
PLUMBING GENERAL NOTES	
#	Note
A	THESE NOTES ARE APPLICABLE TO THE FULL SET OF CONTRACT DRAWINGS
B	EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE. THE LOCATIONS SHOWN MUST BE CONSIDERED APPROXIMATE. OTHER SUCH WORK MAY EXIST, HOWEVER LOCATION AND SIZE ARE NOT PRESENTLY KNOWN.
C	WHEN EXISTING CONSTRUCTION IS DAMAGED BY WORK BY THIS CONTRACTOR, REPAIR AND/OR REPLACE WITH SIMILAR MATERIALS AS MUCH AS POSSIBLE, SUBJECT TO ARCHITECT'S APPROVAL.
D	DISPOSE OF ALL DEMOLITION AND/OR OTHER WASTE MATERIALS CAUSE BY WORK OF THIS CONTRACTOR. LEGALLY DISPOSE ALL MATERIALS TO A LOCATION OFF SITE.
E	COORDINATE AND SCHEDULE WORK AND SHUTDOWNS WITH THE OWNER AND OTHER TRADES PRIOR TO DEMOLITION.
F	ALL EXISTING PIPING TO REMAIN SHALL BE RECONNECTED TO ACTIVE SERVICE PIPING.
G	ALL PIPING TO BE REMOVED SHALL BE REMOVED BACK TO ACTIVE SERVICE PIPING AND CAPPED. VALVE AND CAP ALL WATER PIPING. REMOVE ALL INACTIVE PIPING UNLESS OTHER WISE NOTED.
H	ALL PIPING TO BE REMOVED AND IN A WALL TO REMAIN MAY BE ABANDONED IN PLACE UNLESS NOTED.
I	PATCH HOLES IN EXISTING CONSTRUCTION LEFT BY THE REMOVAL OF PIPING OR EQUIPMENT WITH MATERIALS TO MATCH EXISTING CONSTRUCTION. MAINTAIN FIRE SMOKE RATING.
J	DEMOLITION SHALL INCLUDE, BUT NOT LIMITED TO: PIPING, VALVES, FIXTURES, EQUIPMENT, HANGERS, SUPPORTS AND INSULATION, EXCEPT ASBESTOS.
K	REMOVE EXISTING CONSTRUCTION IN THE WAY OF NEW WORK. PROTECT BUILDINGS AND FURNISHINGS FROM DAMAGE.
L	WHERE NEW WORK IS TO BE INSTALLED ABOVE AN EXISTING CEILING, PROVIDE FOR THE REMOVAL OF THE CEILING. UPON COMPLETION OF WORK, REPAIR ALL DAMAGED CEILING SURFACES, REPLACE ALL DAMAGED TILES.
M	SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE FIRESTOPPING FOR ALL PENETRATIONS.
N	MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT. ADVISE OTHER TRADES OF REQUIRED CLEARANCES.
O	PROVIDED FOR THE DRAINAGE AND REFILLING OF PIPING SYSTEMS, INCLUDING AIR REMOVAL, RESETTNG OF FLUSH VALVES, FLUSHING SYSTEMS OF DIRT AND SCALE CAUSED BY SHUTDOWNS AND STARTUPS.
P	REFER TO EQUIPMENT/FIXTURE SCHEDULE FOR FINAL CONNECTION SIZES.
Q	MINIMUM SIZE OF WASTE PIPING BELOW SLAB SHALL BE 3" EXCEPT PIPING SERVING FLOOR DRAINS SHALL BE 4". MINIMUM SIZE OF VENT PIPING BELOW SLAB SHALL BE 2" UNLESS NOTED OTHERWISE.

#### P101 DRAWING NOTES

- 2" PUMP DISCHARGE FROM BELOW. PROVIDE UNION, CHECK VALVE AND ISOLATION
- VALVE IN VERTICAL PIPING
- EXISTING 4" BUILDING SEWER EXIT FROM BUILDING
- EXISTING 4" SANITARY
- 2" VENT UP. CONNECT TO EXISTING VENT RISER IN CHASE ABOVE
- 2" VENT RISE FROM PUMP BASIN
- DUPLEX PUMP CONTROLLER AND VISUAL ALARM
- 1-1/2" SANITARY IN WALL; 1/2" HOT AND COLD WATER DROP DOWN TO FAUCET SUPPLIES
- 1-1/2" SANITARY IN WALL, 2" SANITARY DOWN, 2" VENT RISE; 1/2" HOT AND COLD WATER DROP DOWN TO FAUCET SUPPLIES
- 1-1/2" SANITARY IN WALL, 2" SANITARY DOWN, 1-1/2" VENT RISE; 1/2" HOT AND COLD WATER DROP DOWN TO FAUCET SUPPLIES
- 3" SANITARY FROM WC, 2" VENT RISE; 1" COLD WATER DROP
- 1" COLD WATER DROP DOWN TO WATER SUPPLIES FOR WATER CLOSET

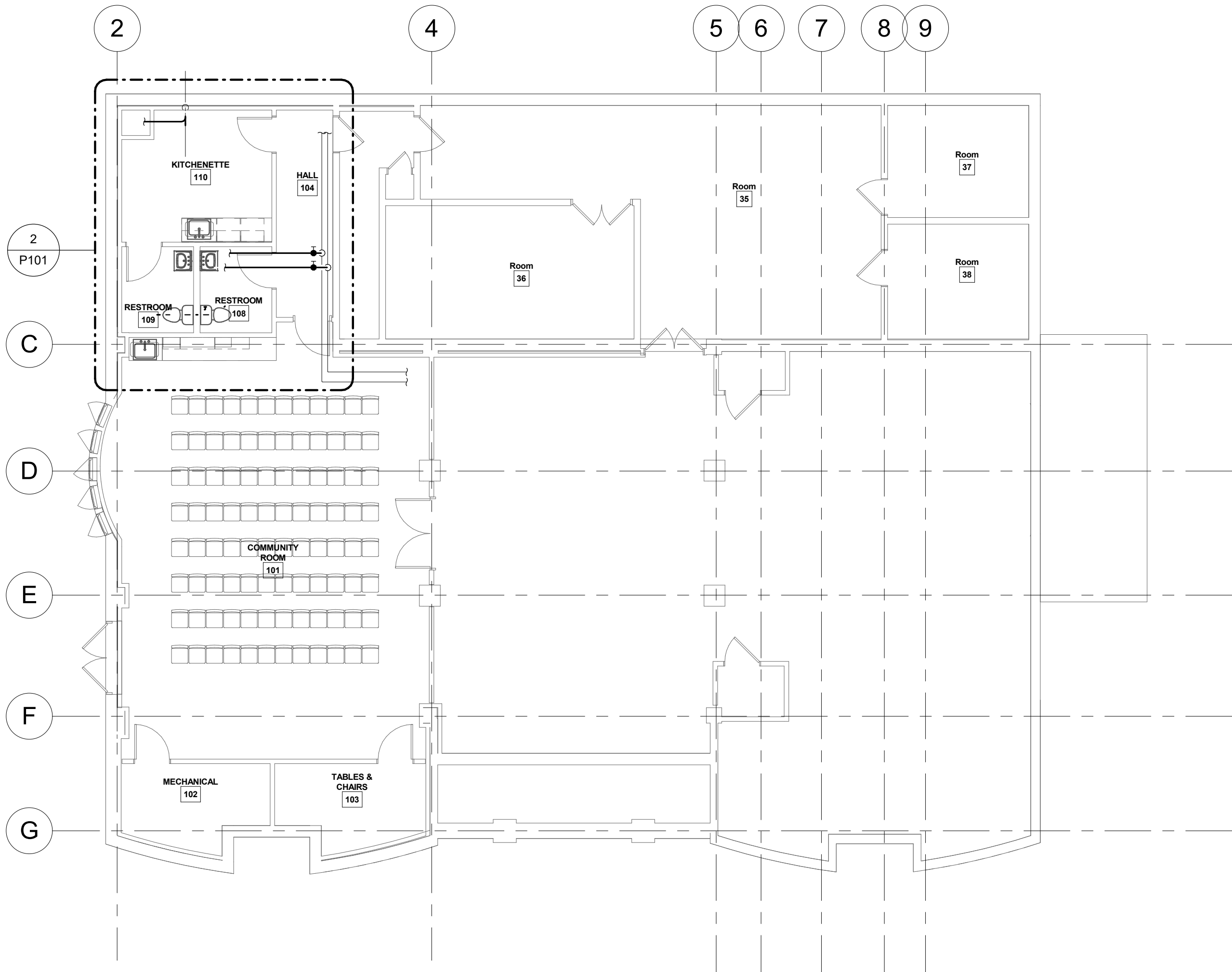


3 DUPLEX SEWAGE EJECTOR DETAIL - SUBMERSIBLE  
NOT TO SCALE



2 ENLARGED RESTROOMS PLUMBING PLAN

1/4" = 1'-0"



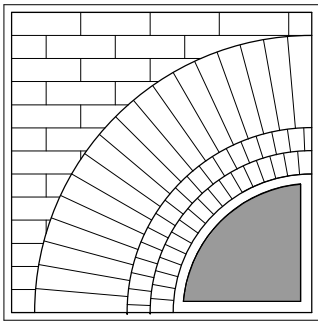
1 LOWER LEVEL PLUMBING PLAN

1/8" = 1'-0"

Issued for Bidding 9/12/2023

#### ISSUES AND REVISIONS

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE ALTERED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518-885-1255  
F: 518-885-1266  
www.brmachitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

#### PROJECT

**ME ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Cape/Croft | Bickel | Buffalo | Syracuse  
400 STATE STREET, 4TH FLOOR  
SHERBROOK, NY 12150 518.535.2711  
www.meengineering.com

#### CONSULTANT

#### CONSULTANT



**STAMP** Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

#### CALLED NORTH

DWN. BY: MT  
SCALE: As indicated  
JOB NO.: 22-48-09  
DATE: 9/1/2023

#### PLUMBING PLAN

#### TITLE

**P101**

DWG. NO.

GENERAL NOTES:

- A.

GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS WITHIN DIVISION 23.
- B.

COORDINATE WORK OF DIVISION 23 WITH THAT OF OTHER SECTIONS.
- C.

READ SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO THESE DOCUMENTS.
- D.

FITTINGS SHOWN ARE TO BE PROVIDED. NO SUBSTITUTES SHALL BE ALLOWED WITHOUT PRIOR CONSENT FROM ARCHITECT/ENGINEER.
- E.

INSTALL DUCTWORK AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE.
- F.

ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- G.

VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND ALL DIMENSIONS BEFORE FABRICATION.
- H.

ALL MATERIAL AND EQUIPMENT SHALL BE NEW.
- I.

INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND LOCAL, STATE, AND NATIONAL CODES.
- J.

MECHANICAL CONTRACTOR SHALL PROVIDE ALL PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS NECESSARY FOR INSTALLATION OF MECHANICAL SYSTEMS. DO NOT DRILL, CORE OR CUT ANY PORTION OF COLUMNS, BEAMS, JOISTS OR BRIDGING RIBS.
- K.

MECHANICAL CONTRACTOR TO PROVIDE CUSTOM COLOR SELECTION FOR WALL CAPS, ROOF JACKS, VENT TERMINATIONS & LOUVERS. ARCHITECT TO SELECT COLOR OF EQUIPMENT.
- L.

PROVIDE INSULATED REFRIGERANT PIPING BETWEEN EACH FAN COIL UNIT & HEAT PUMP UNIT. PIPING SHALL BE SIZED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. CAULK & SEAL REFRIGERANT PIPE PENETRATION THRU EXTERIOR WALL, WEATHER-TIGHT.
- M.

COORDINATE FINAL DUCTWORK ROUTING & FITTINGS WITH APPROVED TRUSS DESIGN. MODIFY LAYOUT AS NECESSARY TO ROUTE DUCTWORK THRU TRUSS WEBS.
- N.

REFER TO MANUFACTURER'S INSTRUCTIONS FOR SIZING & INSTALLATION OF REFRIGERANT PIPING IN "LONG LINE" APPLICATIONS.
- O.

PROVIDE MASTIC SEALANT ON ALL JOINTS, LONGITUDINAL & TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK. MASTIC SEALANT SHALL BE LISTED & LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCTWORK SHALL BE INSPECTED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF INSULATION. SEALANT SHALL BE LOW VOC.
- P.

WALL CAPS & ROOF JACKS SHALL BE CORROSION RESISTANT GALVANIZED STEEL WITH BIRD SCREEN AND BACK DRAFT DAMPER. CUSTOM COLOR SELECTION BY ARCHITECT.
- Q.

MOUNTING HEIGHT FOR THERMOSTATS SHALL BE 48" TO TOP OF COVER, ABOVE FINISHED FLOOR.
- R.

MAINTAIN A MINIMUM 36" CLEARANCE BETWEEN SUPPLY DIFFUSERS/ REGISTERS AND SMOKE DETECTORS.
- S.

COORDINATE DUCTWORK ROUTING AND INSTALLATION WITH OTHER TRADES.
- T.

OR IN-UNIT DEVICES (THERMOSTATS), REFER TO ARCHITECTURAL & ELEVATION PLANS FOR EXACT LOCATIONS & HEIGHTS. COORDINATE 1' DISTANCE FROM EDGE OF WALL.
- U.

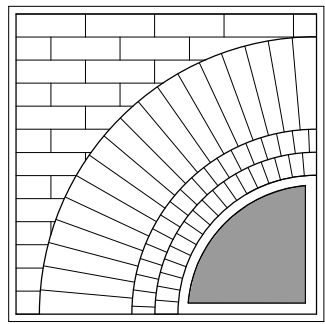
CONTRACTOR SHALL PROVIDE REFRIGERANT CHARGE TEST CERTIFICATION. CHARGE TEST TO BE PREFORMED BY A QUALIFIED TECHNICTION.

HVAC SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING WORK TO BE REMOVED		COMPRESSED AIR
	POINT OF CONNECTION		VENT
	POINT OF DISCONNECTION		BOILER BLOW DOWN
	DRAWING KEYNOTE		CONDENSER WATER SUPPLY
	DEMOLITION KEYNOTE		CONDENSER WATER RETURN
	THOUSAND BTU/HOUR		CHILLED WATER SUPPLY
	NOT TO SCALE		CHILLED WATER RETURN
	EXISTING		DRAIN
	ACOUSTIC THERMAL LINING - 1-1/2" THICK		FUEL OIL FILL
	ACOUSTIC THERMAL LINING - 2" THICK		FUEL OIL GAUGE
	DOUBLE WALL LINED DUCT		FUEL OIL SUPPLY
	FEET PER MINUTE		FUEL OIL RETURN
	CUBIC FEET PER MINUTE		FUEL OIL TANK VENT
	ABOVE FINISHED FLOOR		GAS
	ACCESS DOOR		GLYCOL SUPPLY
	WALL TO WALL		GLYCOL RETURN
	GENERAL CONTRACTOR		HEAT PUMP WATER SUPPLY
	MECHANICAL CONTRACTOR		HEAT PUMP WATER RETURN
	PLUMBING CONTRACTOR		HOT WATER SUPPLY
	ELECTRICAL CONTRACTOR		HOT WATER RETURN
	NORMALLY OPEN		LOW PRESSURE STEAM
	NORMALLY CLOSED		LOW PRESSURE CONDENSATE
	FLEXIBLE DUCTWORK		MEDIUM PRESSURE STEAM
	DUCT SECTION - FLAT OVAL (FO)		MEDIUM PRESSURE CONDENSATE
	ROUND DUCT - IN INCHES		HIGH PRESSURE STEAM
	DUCT SECTION - SUPPLY		HIGH PRESSURE CONDENSATE
	DUCT SECTION - RETURN		PUMPED CONDENSATE
	WIDTH A x DEPTH B		REFRIGERANT DISCHARGE
	TRANSITION SQUARE TO ROUND		REFRIGERANT LIQUID
	RISE IN DUCT - IN DIRECTION OF AIRFLOW		REFRIGERANT SUCTION
	DROP IN DUCT - IN DIRECTION OF AIRFLOW		HOT GAS
	SUPPLY DUCT TURNING UP OR DOWN		VACUUM
	RETURN DUCT TURNING UP OR DOWN		DOMESTIC COLD WATER
	SUPPLY/RETURN RECTANGULAR MAIN RECTANGULAR BRANCH		TRIPLE DUTY VALVE
	SUPPLY/RETURN RECTANGULAR MAIN ROUND BRANCH		GLOBE VALVE
	SUPPLY/RETURN ROUND MAIN ROUND BRANCH		BALL VALVE
	SUPPLY/RETURN ROUND MAIN ROUND BRANCH		GATE VALVE
	SUPPLY/RETURN ROUND MAIN ROUND BRANCH		CONTROL VALVE
	MITERED ELBOW WITH TURNING VANES		THREE WAY CONTROL VALVE
	SUPPLY DIFFUSER, REGISTER OR GRILLE		CHECK VALVE
	RETURN REGISTER		BALANCING VALVE
	EXHAUST GRILLE		BUTTERFLY VALVE
	FIN TUBE RADIATION		RELIEF VALVE
	VALANCE		PRESSURE REDUCING VALVE
	REGISTER, GRILLE OR DIFFUSER TAG		PRESSURE/TEMPERATURE TEST PLUG
	FIN TUBE RADIATION TAG		SINGLE LINE PIPE CONTINUED
	FT-A = TYPE		DOUBLE LINE PIPE OR ROUND DUCT CONTINUED
	B = FIN TUBE LENGTH		DOUBLE LINE RECTANGULAR DUCT CONTINUED
	C = ENCLOSURE LENGTH		AIR FLOW
	D = GPM		PIPE ANCHOR
	RADIANT CEILING PANEL TAG		PIPE GUIDE
	VALANCE TAG		EXPANSION COMPENSATOR WITH GUIDES
	A = TYPE		PRE-FAB EXPANSION LOOP
	B = LENGTH		STRAINER
	C = GPM		PRESSURE GAUGE
	A = TYPE		THERMOMETER
	B = COIL SIZE		UNION
	C = COOLING GPM		AIR VENT
	D = HEATING GPM		THERMOSTATIC TRAP
	AIR TERMINAL UNIT AND TAG (OPTION 1)		FLOAT & THERMOSTATIC TRAP
	AIR TERMINAL UNIT TAG (OPTION 2)		THERMODYNAMIC TRAP
	A = UNIT NO.		BUCKET TRAP
	B = MAXIMUM CFM		DIRECTION OF FLOW
	C = MINIMUM CFM		REDUCER
	DUCT SMOKE DETECTOR		CAP OR PLUG
			ELBOW DOWN
			ELBOW UP
			BOTTOM TAP
			AUTOMATIC AIR DAMPER
			FIRE DAMPER
			SMOKE DAMPER
			BACK DRAFT DAMPER
			FLEX CONNECTOR - DUCTWORK
			MOTORIZED DAMPER
			BLAST GATE
			VOLUME DAMPER
			SUCTION DIFFUSER
			FLEXIBLE CONNECTOR - PIPING
			DRAIN VALVE WITH HOSE CONNECTION, CAP AND CHAIN
			WATER FLOW SENSOR
			WATER TEMPERATURE SENSOR
			STATIC PRESSURE SENSOR
			HUMIDISTAT
			TEMPERATURE SENSOR
			CARBON DIOXIDE SENSOR
			CARBON DIOXIDE SENSOR
			GAS SENSOR
			PNEUMATIC/ELECTRIC THERMOSTAT
			THERMOSTAT/SENSOR WITH GUARD

Issued for Bidding 9/12/2023

ISSUES AND REVISIONS

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE REPRODUCED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSES WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

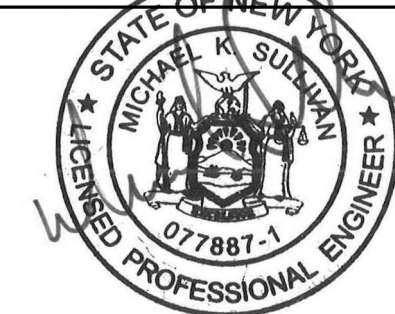
11 Town Center Boulevard  
Hopewell Junction, NY 12533

PROJECT

**ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR 518.535.5771  
500 N. STATE ST., 4TH FLOOR 518.535.5771  
www.eengineering.com

CONSULTANT

CONSULTANT



Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

STAMP

CALLED NORTH

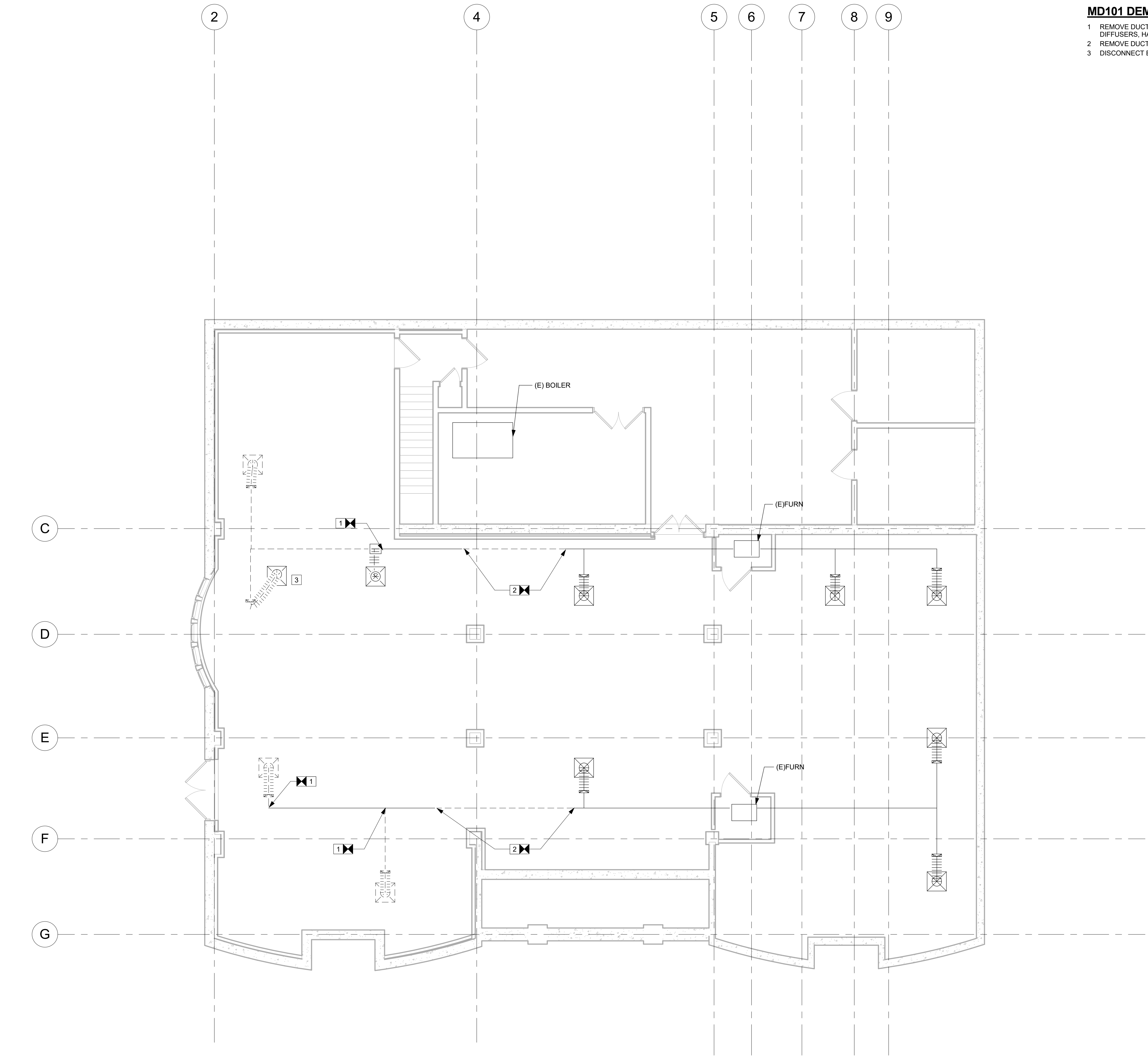
DWN. BY: HSK  
SCALE: 1/8" = 1'-0"  
JOB NO.: 22-48-09  
DATE: 09/01/2023

**GENERAL  
NOTES,  
SYMBOL LIST  
&  
ABBREVIATIONS**

TITLE

**M001**

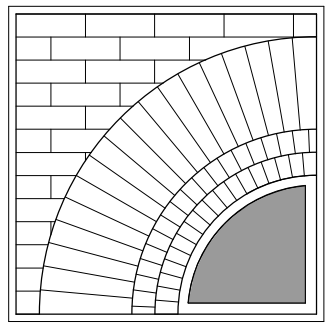
DWG. NO.



1 LOWER LEVEL - DEMO PLAN  
3/16" = 1'-0"

**MD101 DEMOLITION NOTES**

- 1 REMOVE DUCTWORK BACK TO THIS LOCATION AND CAP AIR TIGHT. INCLUDING DIFFUSERS, HANGERS AND ALL ACCESSORIES.
- 2 REMOVE DUCTWORK BETWEEN DISCONNECT SYMBOLS. CAP DUCTWORK AIR TIGHT.
- 3 DISCONNECT EXISTING DIFFUSER FOR RECONNECTION.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

**PROJECT**

**ME ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR  
ROCHESTER, NY 14609 518.535.5171  
www.meengineering.com

**CONSULTANT**

**CONSULTANT**



**STAMP** Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

**CALLLED NORTH**

DWN. BY: HSK  
SCALE: 3/16" = 1'-0"  
JOB NO.: 22-46-09  
DATE: 09/01/2023

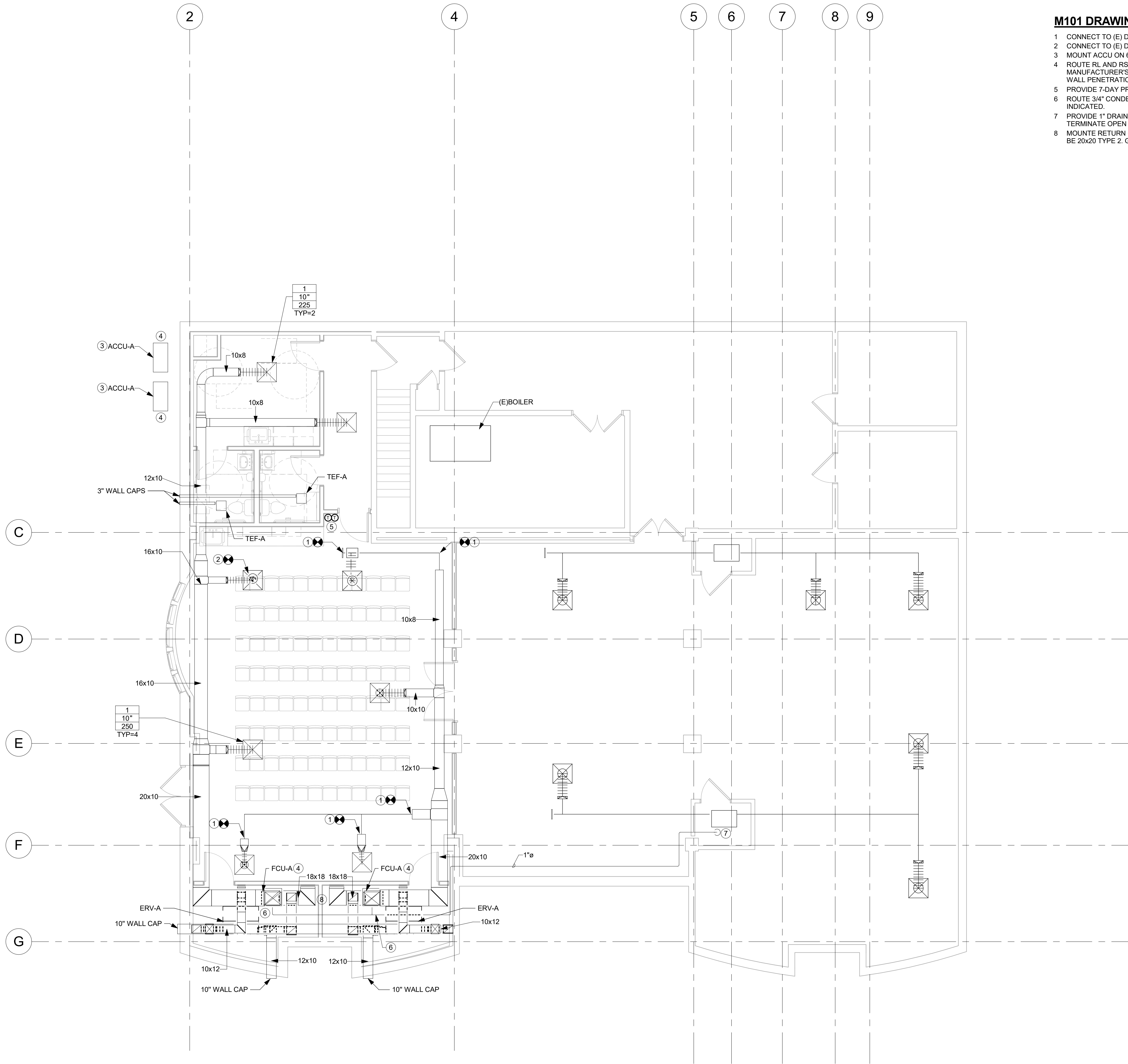
**HVAC -  
BASEMENT  
DEMOLITION  
PLAN**

**TITLE**

**MD101**

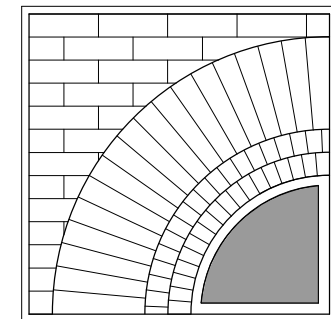
DWG. NO.





**M101 DRAWING NOTES**

- 1 CONNECT TO (E) DUCT AT THIS LOCATION.
- 2 CONNECT TO (E) DIFFUSER AT THIS LOCATION. BALANCE TO 250 CFM.
- 3 MOUNT ACCU ON 6" THICK CONCRETE PAD PER DETAIL 3/M501.
- 4 ROUTE RL AND RS FROM INDOOR FCU TO OUTDOOR ACCU. SIZE PIPING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROUTE PIPING ABOVE CEILING. SEAL WALL PENETRATION WEATHER TIGHT.
- 5 PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT AT THIS LOCATION. WIRE BACK TO FCU.
- 6 ROUTE 3/4" CONDENSATE DRAIN FROM FCU CONDENSATE PUMP TO LOCATION INDICATED.
- 7 PROVIDE 1" DRAIN DOWN TO 2" ABOVE FLOOR AND ROUTE TO ABOVE FLOOR DRAIN. TERMINATE OPEN ENDED.
- 8 MOUNT RETURN GRILLE ON WALL 6" ABOVE FINISHED FLOOR. RETURN GRILLE SHALL BE 20x20 TYPE 2. GRILLE SHALL BE DUCTED BACK TO FCU-A INTAKE.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

**PROJECT**

**ENGINEERING**

Mechanical/Electrical Engineering Consultants

Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR ROCHESTER, NY 14609 518.535.5771  
500 HARTSHORN AVENUE BUFFALO, NY 14202 www.meeengineering.com

**CONSULTANT**

**CONSULTANT**



**STAMP** Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

**CALLED NORTH**

DWN. BY: Author  
SCALE: 3/16" = 1'-0"  
JOB NO.: 22-46-09  
DATE: 09/01/2023

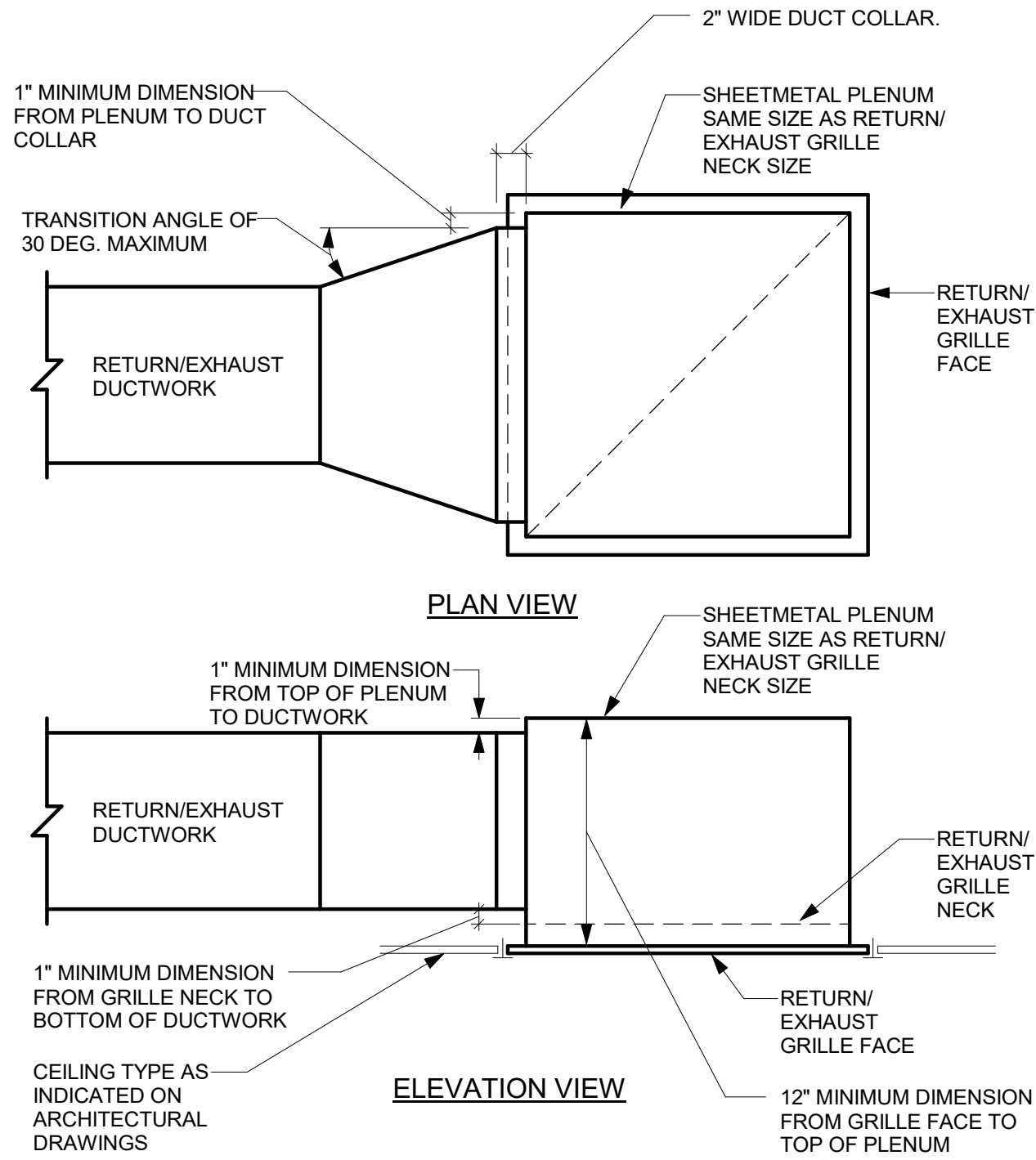
**HVAC -  
BASEMENT  
PLAN**

**TITLE**

**M101**

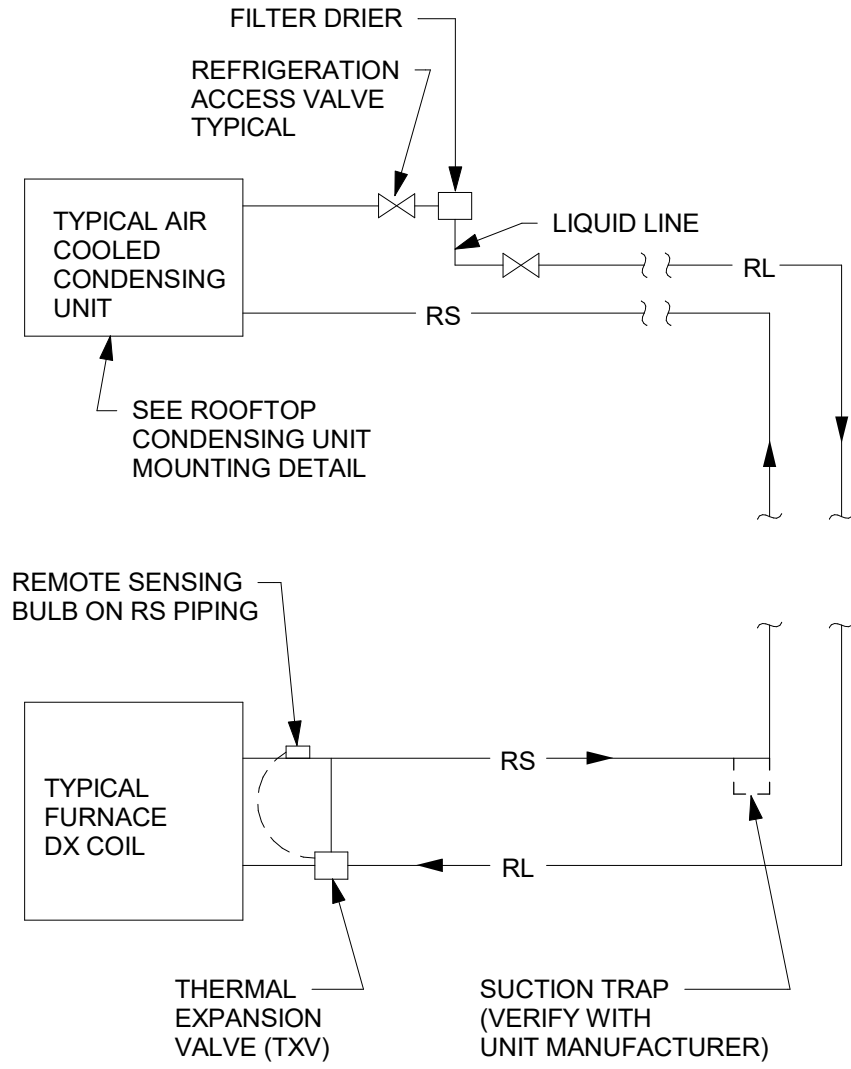
DWG. NO.

**1 LOWER LEVEL - PLAN**  
3/16" = 1'-0"



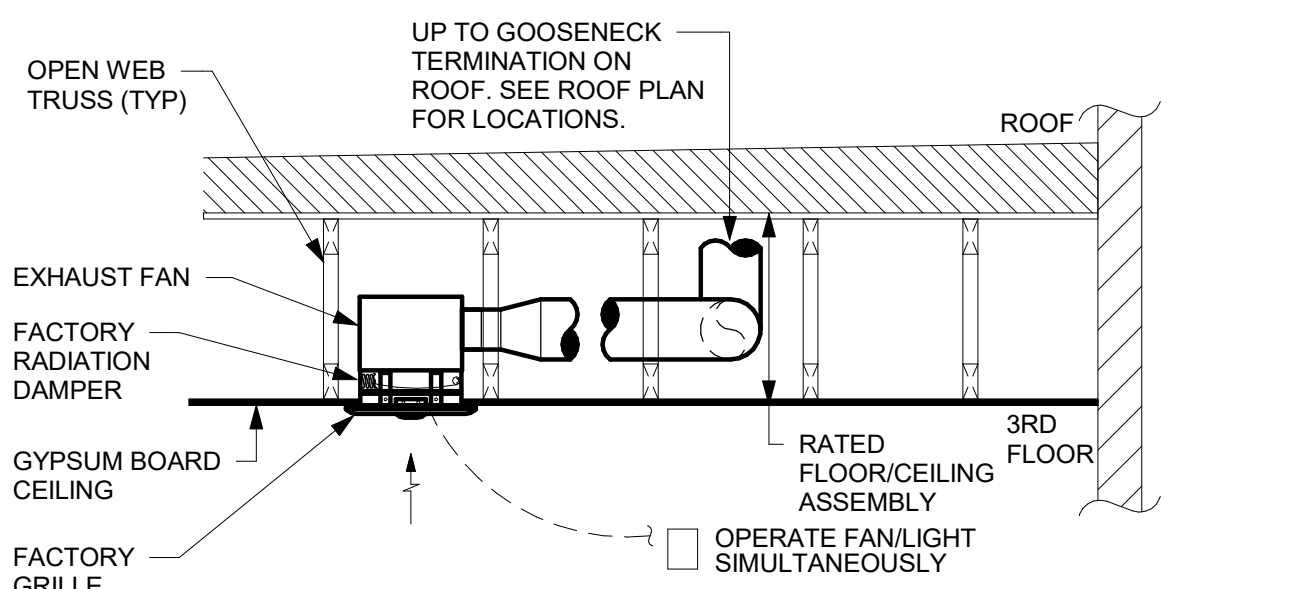
- DETAIL NOTES:
- A. PAINT INSIDE OF PLENUM BOX FLAT BLACK IF INTERNAL SOUND LINING IS NOT SPECIFIED.
  - B. ALSO APPLICABLE TO REGISTERS.

1 RETURN/EXHAUST GRILLE PLENUM DETAIL - DUCTED  
NOT TO SCALE



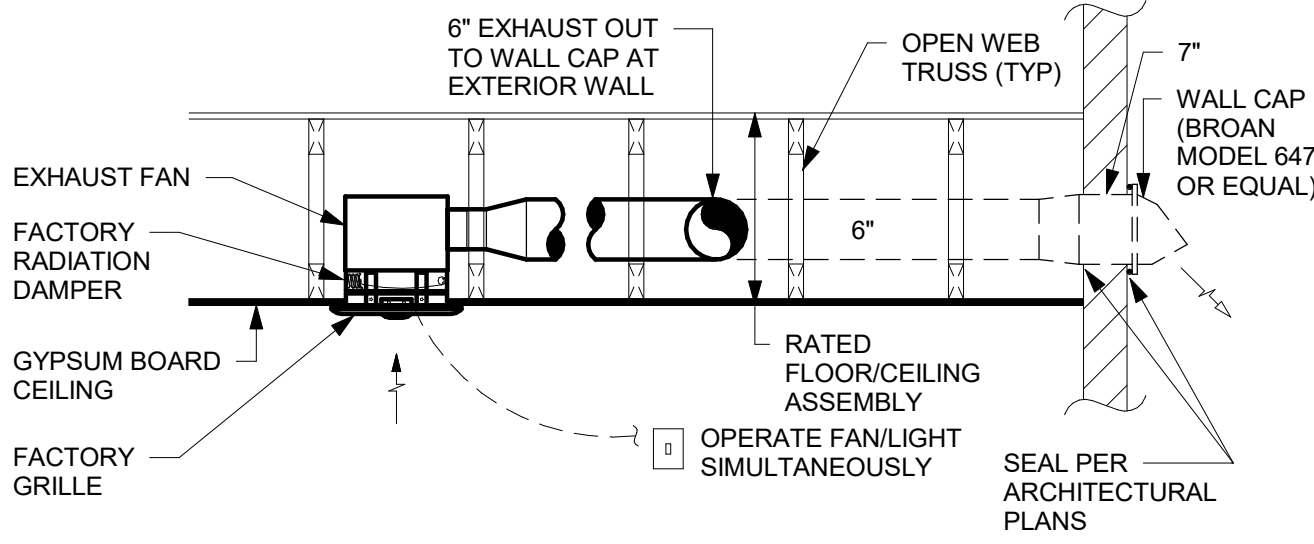
- DETAIL NOTES:
- A. CONFIRM REFRIGERANT LINE LENGTHS WITH MANUFACTURER FOR EACH SYSTEM.
  - B. VERIFY THE REQUIREMENT FOR A SUCTION LINE TRAP AT THE BASE OF THE REFRIGERANT SUCTION (RS) LINE WITH THE MANUFACTURER.
  - C. THIS DETAIL IS INTENDED TO SHOW THE GENERAL SYSTEM COMPONENTS. THE SYSTEM SHALL BE PIPED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

3 DX PIPING CONNECTIONS DETAIL - CONDENSING UNIT ABOVE EVAPORATOR COIL  
NOT TO SCALE



NOTE: PROVIDE SHEETMETAL DUCTWORK. NO FLEXIBLE DUCTWORK PERMITTED.

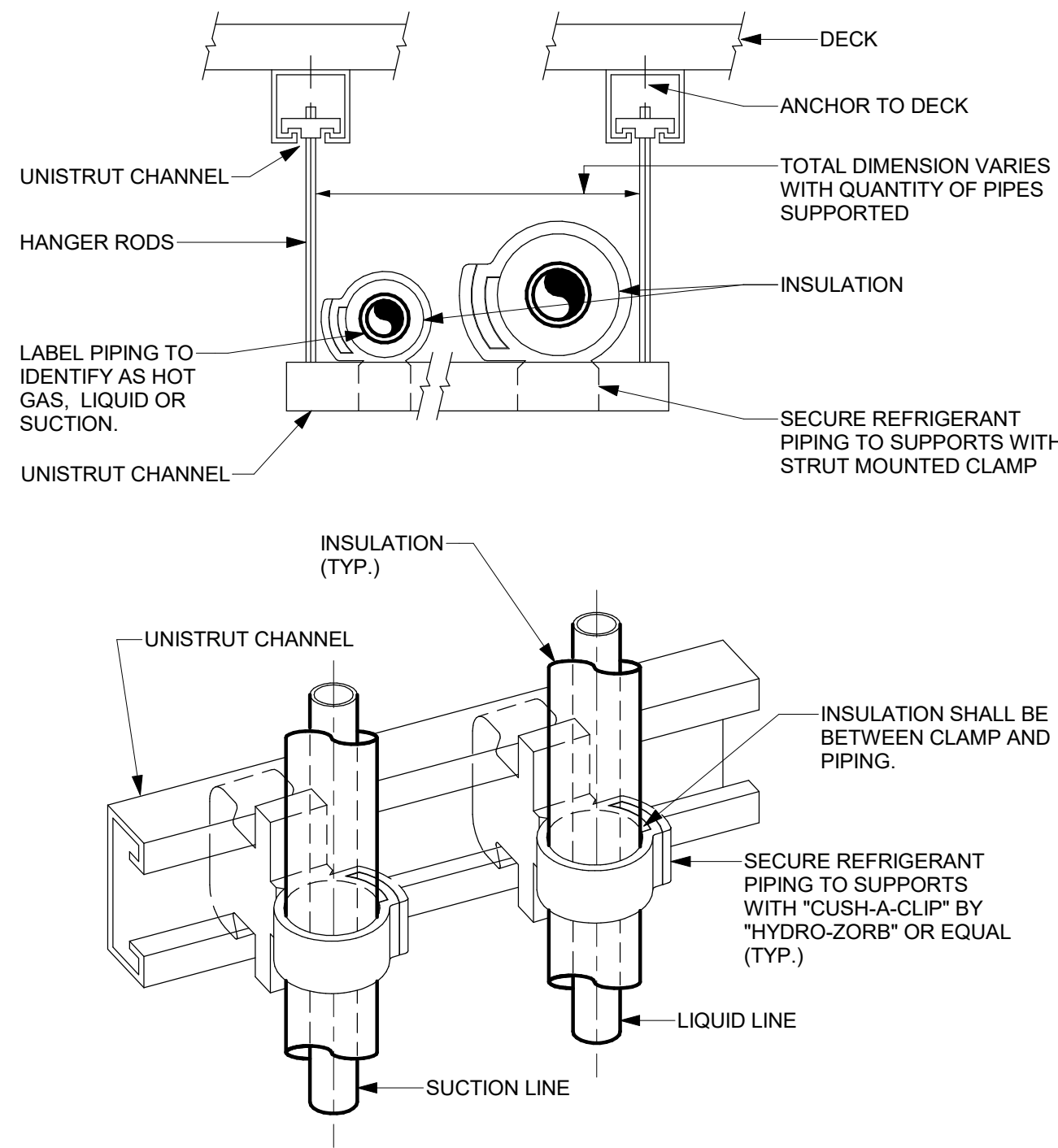
EXHAUST FAN MOUNTED IN RATED ASSEMBLY - THIRD FLOOR



NOTE: PROVIDE SHEETMETAL DUCTWORK. NO FLEXIBLE DUCTWORK PERMITTED.

EXHAUST FAN MOUNTED IN RATED ASSEMBLY - LOWER FLOORS

2 TYPICAL EXHAUST FAN MOUNTING DETAIL  
NOT TO SCALE

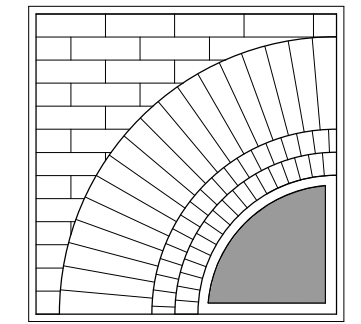


4 REFRIGERANT PIPE SUPPORT DETAIL  
NOT TO SCALE

Issued for Bidding 9/12/2023

ISSUES AND REVISIONS

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE ALTERED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

PROJECT

**ME ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR 518.535.5771  
500 NICHOLS AVENUE 518.535.5771  
www.meeengineering.com

CONSULTANT

CONSULTANT



**STAMP** Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

CALLED NORTH

DWN. BY: HSK  
SCALE: NOT TO SCALE  
JOB NO.: 22-48-09  
DATE: 09/01/2023

**MECHANICAL  
DETAILS**

TITLE

**M501**  
DWG. NO.

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE - HEAT PUMP TYPE																																
UNIT NO.	LOCATION		INDOOR UNIT		OUTDOOR UNIT														HEATING (5 DEG F)		EFFICIENCY		FILTER MERV RATING	MANUFACTURER & MODEL No.		REMARKS						
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	UNIT TYPE	AIR FLOW (CFM)	COOLING CAPACITY (BTUH)	MINIMUM CAPACITY (BTUH)	EAT (DEG. F)		VOLTS	PHASE	MCA	FAN FLA	SOUND PRESSURE (dBA)	REFRIGERANT	VOLTS	PHASE	MCA	FAN FLA	BREAKER SIZE (AMPS)	EAT (DEG. F)		SOUND PRESSURE (dBA)	RATED CAPACITY (MBTUH)		MAXIMUM CAPACITY (MBTUH)	MINIMUM (COP)	MINIMUM (SEER)	INDOOR UNIT	OUTDOOR UNIT	
FCU-A		ACCU-A	GRADE	ROOF	VERTICAL AHU	1040	42000	17000	80	67	208	1	5.5	4.5	44	R-410A	208	1	36	0.4		95.0	75.0	51	48	38.4	1.9	15.4	-	MITSUBISHI PVAA42AA7	MITSUBISHI PUZHA42NKA1	1, 2

REMARKS:  
1. CONDENSATE PUMP.  
2. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT.

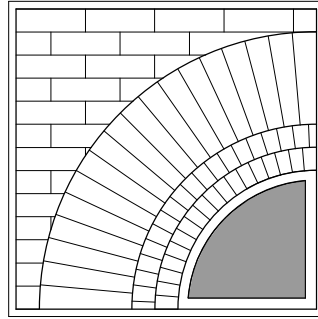
PACKAGED ENERGY RECOVERY VENTILATION UNIT SCHEDULE - STATIC PLATE CORE HEAT EXCHANGER																							
UNIT NO.	LOCATION	SERVICE	MODE	SUPPLY FAN		EXHAUST FAN		ELECTRICAL CHARACTERISTICS				TOTAL EFF. (%)	PERFORMANCE CONDITIONS								FILTER MERV RATING	MANUFACTURER & MODEL No.	REMARKS
				AIR FLOW (CFM)	E.S.P. (In. WC)	AIR FLOW (CFM)	E.S.P. (In. WC)	VOLTS	PHASE	MCA	MOP		O.A.		R.A.		S.A.		E.A.				
													DB	WB	DB	WB	DB	WB	DB	WB			
ERV-A	VARIOUS	MULTIPURPOSE	SUMMER	85	0.75	85	0.75	120	1	10.1	15	54.4	91.4	73.8	75.0	62.5	79.5	68	---	---	8/8	RENEWAIRE EV PREMIUM S	1
			WINTER	85	0.75	85	0.75	120	1	10.1	15	71.3	1.7	0.4	70.0	51.4	51.4	40.2	---	---			

REMARKS:  
1. INTERLOCK WITH FCU-A OPERATION.

FAN SCHEDULE																	
UNIT NO.	LOCATION	SERVICE	FAN CHARACTERISTICS							MOTOR CHARACTERISTICS						MANUFACTURER & MODEL NO.	REMARKS
			TYPE	BLADE TYPE	CFM	S.P. (In. WC)	FAN RPM	SONES	DRIVE	WATTS	HP	VOLTS	HZ	PHASE	STARTER		
TEF-A	VARIOUS	EXHAUST	CLG	FC	80	0.1	---	0.3	DIRECT	(7.0)	---	120	60	1	INCLUDED	PANASONIC WHISPERGREEN SELECT FV-05-11VKS1	2,3,4,5,6,7

REMARKS:  
1. TWO SPEED, CONTINUOUS OPERATION. SET LOW SPEED FOR 35 CFM.  
2. TWO SPEED, CONTINUOUS OPERATION. SET LOW SPEED FOR 25 CFM.  
3. DC BRUSHLESS MOTOR  
4. BACKDRAFT DAMPER  
5. PROVIDE WITH FACTORY LED LIGHT KIT  
6. PROVIDE WITH A MOTION SENSOR  
7. PROVIDE WITH FACTORY RADIATION DAMPERS

REGISTER GRILLE AND DIFFUSER SCHEDULE					
TYPE	APPLICATION	MATERIAL	FINISH	MANUFACTURER & MODEL NO.	REMARKS
1	SUPPLY	STEEL	WHITE	TITUS MODEL OMNI	
2	SUPPLY	STEEL	WHITE	TITUS MODEL 272-RL/RS	
3	SUPPLY	STEEL	WHITE	CONTINENTAL 32	
A	RETURN/EXHAUST	STEEL	WHITE	TITUS MODEL 350/355-RL/RS	
B	RETURN/EXHAUST	ALUMINUM	ANODIZED	CONTINENTAL G35	
C	TRANSFER	ALUMINUM	ANODIZED	LIMA MODEL 700	



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

PROJECT

**ME ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR  
ROCHESTER, NY 14609 518.535.0171  
www.meeengineering.com

CONSULTANT

CONSULTANT



STAMP Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

CALLED NORTH

DWN. BY: HSK  
SCALE:  
JOB NO.: 22-46-09  
DATE: 09/01/2023


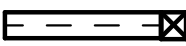







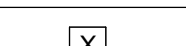



**HVAC  
SCHEDUELS**

TITLE

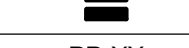
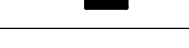


**M601**  
DWG. NO.







GENERAL NOTES	
(APPLY TO ALL DRAWINGS):	
A.	PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO PERFORM ALL OPERATIONS REQUIRED FOR THE COMPLETE INSTALLATION AND RELATED WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. ELECTRIC EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
B.	PROVIDE ALL ELECTRICAL EQUIPMENT CONNECTIONS.
C.	PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES.
D.	PROVIDE ALL WORK IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LATEST EDITION OF THE: 1. BUILDING CODE OF NEW YORK STATE 2. ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE 3. OSHA REQUIREMENTS 4. LOCAL MUNICIPAL ORDINANCES AND CODES 5. AUTHORITY HAVING JURISDICTION (AHJ) 6. SERVING UTILITY COMPANIES
E.	PROVIDE ELECTRICAL INSPECTION CERTIFICATE FROM INSPECTION AGENCY RECOGNIZED AS ACCEPTABLE FROM THE AHJ.
F.	ALL RECEPTACLES INDICATED AS GFI TYPE MUST BE A GFI RECEPTACLE. CONNECTING NORMAL RECEPTACLES DOWNSTREAM OF ONE GFI RECEPTACLE IS NOT ACCEPTABLE. PROVIDE TEMPORARY ELECTRICAL SERVICE IN SIZES TO ACCOMMODATE CONSTRUCTION WHERE REQUIRED.
G.	REPAIR OR REPLACE ALL DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN ONE YEAR OF CONSTRUCTION CLOSE OUT DATE AT NO ADDITIONAL COST TO THE OWNER.
H.	PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE SYSTEM TEST. PRIOR TO CLOSE OUT DATE SUBMIT ALL SATISFACTORY SYSTEM TEST RESULTS FOR RECORD.
J.	SUBMITTALS: 1. ALL ITEMS OF EQUIPMENT AND MATERIALS PROVIDED SHALL BE SUBMITTED FOR ENGINEERING REVIEW. 2. SUBMIT A MINIMUM OF THREE COPIES OF SHOP DRAWINGS/PRODUCT DATA INFORMATION.
K.	CONTRACTOR IS HERE BY CAUTIONED THAT ELECTRIC POWER CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERAGE, ETC.) OF EQUIPMENT IS BASED ON AVAILABLE INFORMATION AT THE TIME OF PROJECT DESIGN. CONTRACTOR MUST VERIFY CHARACTERISTICS FOR EACH PIECE OF NEW EQUIPMENT PRIOR TO ORDERING ELECTRICAL EQUIPMENT. INDICATE VERIFICATION ON SUBMITTALS.
L.	LOCATIONS INDICATED FOR LIGHTING FIXTURES ARE APPROXIMATE. LOCATE FIXTURES AS REQUIRED TO AVOID INTERFERENCE WITH BUILDING STEEL, PIPING, DUCTWORK, CONDUIT, DIFFUSERS, GRILLES, SPEAKERS, SMOKE DETECTORS, ETC. FIELD COORDINATE EXACT LOCATIONS AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. VERIFY COMPLIANCE WITH NEC ARTICLE 410.16 FOR INSTALLATION OF LIGHT FIXTURES IN CLOTHES CLOSETS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
M.	EXACT LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, EXIT SIGNS, ETC. SHALL BE COORDINATED WITH OTHER CEILING MOUNTED EQUIPMENT TO AVOID CONFLICT. LOCATE DEVICES AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. FIRE ALARM SMOKE AND HEAT DETECTORS SHALL BE LOCATED 3'-0" MINIMUM FROM HVAC DIFFUSERS, REGISTERS, GRILLES, ETC. SMOKE DETECTORS AT SMOKE DOORS MUST BE INSTALLED WITHIN 5'-0" OF THE DOORS (REFER TO NFPA 72).
N.	ALL NEW CIRCUITING SHALL BE CONCEALED (EXCEPT IN UNFINISHED SPACES). PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.
O.	CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT AND OTHER CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR CASEWORK LAYOUT, ELEVATIONS, ETC. COORDINATE WITH LOCATIONS OF ELECTRICAL DEVICES AND OUTLETS
P.	EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS.
Q.	PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED CONNECTIONS TO ALL DEVICES/ EQUIPMENT. CONNECT TO CIRCUIT(S) AS INDICATED.
R.	COORDINATE ALL WORK WITH OTHER TRADES; REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATING LOCATIONS.
S.	RE-INSTALL REMOVED SYSTEM DEVICES REMOVED AS A RESULT IN WALL, PARTITION OR CEILING REPLACEMENT WORK. PROVIDE POWER AND COMMUNICATION WALL AND PARTITION MOUNTED DEVICES AND RECONNECT TO EXISTING SYSTEMS. CLEAN EXISTING CEILING MOUNTED DEVICES. EXTEND EXISTING SYSTEM CIRCUITS AS REQUIRED FOR REINSTALLATION. COORDINATE WITH EXISTING SYSTEM MANUFACTURER.
T.	SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE APPROPRIATE FIRE STOPPING FOR ALL PENETRATIONS.
U.	SHARED NEUTRAL SHALL NOT BE ALLOWED ON ANY BRANCH CIRCUITS. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT. ADVISE OTHER TRADES OF SERVICE CLEARANCES AND ENSURE NO SERVICES OR TRADES RUN THROUGH SERVICE AREA.
V.	ALL WIRING INDICATED ON PLANS IS TO BE COPPER WIRING UNLESS OTHERWISE NOTED.
W.	RATINGS TO MATCH THE RATING OF THE WALL/CEILING. UTILIZE FIRE RATED PUDDY PADS IN THESE LOCATIONS.
X.	REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING OF RECEPTACLES IN AND NEAR ALL MILLWORK AND CABINETRY.
Y.	THE CONTRACTOR MUST FOLLOW FEDERAL AND STATE ELECTRICAL SAFETY PRACTICE INCLUDING LOCK OUT TAG OUT (LOTO). THE CONTRACTOR MUST AFFIX THEIR COMPANY'S INDIVIDUAL LOTO LOCKS AND TAGS TO CONTROL HAZARDOUS ENERGIES AND TO PREVENT INJURIES.
Z.	PROVIDE SURFACE MOUNTED BOXES AND SURFACE METAL RACEWAY FOR ALL DEVICES INDICATED TO BE INSTALLED ON EXISTING WALLS, UNLESS OTHERWISE NOTED; COLOR TO MATCH EXISTING WALL.
AA.	PROVIDE RECESSED BOXES AND RACEWAYS FOR ALL DEVICES INDICATED TO BE INSTALLED ON NEW WALLS, UNLESS OTHERWISE NOTED.

ABBREVIATIONS	
ABBREV.	DESCRIPTION
A	AMPERE
AIC	AMPERE INTERRUPTING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AUTO	AUTOMATIC
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BSMT	BASEMENT
CB	CIRCUIT BREAKER
CLG	CEILING
CU	COPPER
DN	DOWN
EA	EACH
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EX	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GIGND	GROUND
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	MOUNTED OVER COUNTER
OH	OVERHEAD
PNL	PANEL
PH	PHASE
P	POLE
REFER	REFRIGERATOR
RMC	RIGID METAL CONDUIT
SP	SPACE
SPEC	SPECIFICATION
SW	SWITCH
TYP	TYPICAL
UC	MOUNTED UNDER COUNTER HEIGHT OR UNDERGROUND COMMUNICATION
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WIRE OR WATT
WP	WEATHERPROOF






BASIC MATERIALS AND METHODS	
SYMBOL	DESCRIPTION
	GANGED DEVICES
	TWO PIECE PREWIRED SURFACE RACEWAY
	DIVIDABLE SURFACE RACEWAY WITH DEVICES AS INDICATED.
	JUNCTION BOX, NORMAL POWER
	TELEVISION MOUNTED DUPLEX RECEPTACLE IN 1-GANG OUTLET BOX WITH (1) COMMUNICATIONS 1-GANG OUTLET BOX WITH (1)1" CONDUIT TO ABOVE ACCESSIBLE CEILING.
	DUPLEX RECEPTACLE. SUBSCRIPTS INDICATE TYPE:  G - GROUND FAULT CIRCUIT INTERRUPTER MW - MICROWAVE DW - DISHWASHER R - REFRIGERATOR
	TWO DUPLEX RECEPTACLE, SINGLE COVER
	VIDEO PROJECTOR; PROVIDE (1)120V 20A DUPLEX RECEPTACLE FLUSH MOUNTED TO THE CEILING (PROJECTOR AND MOUNTING HARDWARE PROVIDED BY OTHERS)
	DOUBLE GANG COMMUNICATIONS BACKBOX W/ (1)1" CONDUIT TO ABOVE ACCESSIBLE CEILING
(E)	EXISTING TO REMAIN - INDICATES EXISTING ITEM SHALL REMAIN. MAINTAIN EXISTING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED.
(ER)	EXISTING TO BE RELOCATED - INDICATES EXISTING ITEM SHALL BE RELOCATED. DISCONNECT AND REMOVE, REINSTALL AT NEW LOCATION AND RECONNECT ITEM AS REQUIRED.
(X)	REFERENCE TO DRAWING NOTE
	REFERENCE TO DEMOLITION NOTE
	EXISTING ELECTRICAL OR EQUIPMENT OR DEVICE, DASHED LIGHT LINE WEIGHT IS EXISTING TO BE REMOVED.
	EXISTING WIRING OR EQUIPMENT, SOLID LIGHT LINE WEIGHT IS EXISTING.
	HEAVY SOLID LINE WEIGHT IS NEW

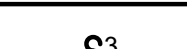

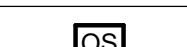

GENERAL FIRE ALARM NOTES	
(APPLY TO ALL DRAWINGS):	
A.	THE CONTRACTOR SHALL PROVIDE A COMPLETE TEST OF THE EXISTING SYSTEM PRIOR TO MAKING MODIFICATIONS TO ASSESS THE CONDITION AND CAPABILITY OF DEVICES AND CIRCUITS TO BE REUSED. WHERE POSSIBLE, THE CONTRACTOR SHALL HAVE THE OPTION TO REUSE EXISTING DEVICES, BOXES AND WIRING.
B.	IN GENERAL, EXISTING INITIATION AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE RETAINED AND EXTENDED TO THE NEW CONTROL PANEL FOR DEVICES IN AREAS UNAFFECTED BY THE SCOPE OF WORK. NEW DEVICES SHALL BE TIED INTO EXISTING CIRCUITS, OR NEW CIRCUITS SHALL BE PROVIDED AS REQUIRED TO PROVIDE A COMPLETE SYSTEM AS INDICATED.
C.	ALL WIRING SHALL BE COPPER, INSTALLED IN A DEDICATED/SEGREGATED EMT CONDUIT SYSTEM AND SHALL CONFORM TO THE NEC AND TO NFPA-72, NATIONAL FIRE ALARM CODE. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
D.	THE COMPLETE FIRE ALARM SYSTEM SHALL BE FULLY TESTED AFTER THE WORK IS COMPLETE. TESTING SHALL INCLUDE ALL DEVICES, CONTROL PANEL, ANNUNCIATOR PANEL, OTHER PANELS, FEATURES AND FUNCTIONS. TESTING SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE AND BE IN ACCORDANCE WITH THE NFPA. PROVIDE A TESTING REPORT TO THE AHJ AND THE ENGINEER AS A SUBMITTAL. REFER TO SPECIFICATION SECTION 283103.

POWER DISTRIBUTION AND CONTROL	
SYMBOL	DESCRIPTION
PP-XX 	208/120 [240/120] VOLT RECESSED PANELBOARD
PP-XX 	208/120 [240/120] VOLT PANELBOARD
	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.
	SINGLE POINT CONNECTION TO EQUIPMENT

LUMINAIRES	
SYMBOL	DESCRIPTION
 FA d	LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.
 FA d	WALL MOUNTED LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.
	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK
	CEILING MOUNTED EXIT LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE
	EXIT LUMINAIRE WITH EMERGENCY HEADS

GENERAL REMOVAL NOTES	
(APPLY TO ALL DRAWINGS):	
A.	DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SHOWN TO BE REMOVED, OR REQUIRED TO BE REMOVED AS A RESULT OF EQUIPMENT/BUILDING DEMOLITION WORK. COORDINATE REQUIREMENT WITH GENERAL CONTRACTOR. REMOVE ALL ASSOCIATED BRANCH CIRCUIT AND CONTROL WIRING AND RACEWAYS. WHERE EXISTING DEVICES ARE NOT BEING REUSED, THEY AND THEIR ASSOCIATED WIRING SHALL BE COMPLETELY REMOVED BACK TO THEIR SOURCES (UNLESS OTHER WISE NOTED). DISCONNECT AND REMOVE ALL EMPTY AND ABANDONED RACEWAYS. CUT FLUSH WITH FLOOR OR WALL WHERE APPLICABLE AND PLUG CONDUIT WATERTIGHT. SEE FRONT END SPECS FOR "HOT WORK PERMIT" REQUIREMENTS.
B.	EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE AND ARE NOT GUARANTEED ACCURATE. EC SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
C.	COORDINATE ALL WORK WITH OTHER TRADES.
D.	CUTTING, PATCHING AND FIRESTOPPING OF EXISTING BUILDING FINISHES AND ELEMENTS TO FACILITATE ELECTRICAL REMOVAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
E.	PROVIDE A TEST PRIOR TO THE BEGINNING ELECTRICAL REMOVAL WORK, OF EACH AND EVERY SYSTEM AFFECTED BY THE WORK TO ASCERTAIN AND DOCUMENT PRE-CONSTRUCTION CONDITIONS OF EACH INDIVIDUAL DEVICE ON EACH SYSTEM. SYSTEMS AND DEVICES WHICH ARE UNTESTED WILL BE ASSUMED TO BE IN PERFECT WORKING ORDER PRIOR TO THE BEGINNING OF CONSTRUCTION. TEST THESE AND NEW DEVICES AND SYSTEMS AFTER CONSTRUCTION TO INDICATE AND DOCUMENT POST-CONSTRUCTION CONDITIONS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ALL EXISTING SYSTEMS AND DEVICES TO PRE-CONSTRUCTION CONDITION OR BETTER. OBTAIN THE SERVICES OF A CERTIFIED TESTING ORGANIZATION TO TEST AND DOCUMENT EACH SYSTEM, BOTH PRE AND POST CONSTRUCTION. SUCH SYSTEMS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO: HVAC, EMERGENCY EGRESS LIGHTING SYSTEM, AUTOMATIC LIGHTING CONTROL SYSTEM AND FIRE ALARM SYSTEM. SUBMIT TEST RESULTS TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.

FIRE ALARM	
SYMBOL	DESCRIPTION
	MANUAL PULL STATION
	SMOKE DETECTOR
	NOTIFICATION APPLIANCE, AUDIBLE AND VISUAL # INDICATES STROBE CANDELA IF OTHER THAN 75. C - INDICATES CEILING
	NOTIFICATION APPLIANCE, VISUAL # INDICATES STROBE CANDELA IF OTHER THAN 75. G - INDICATES CEILING
	FIRE ALARM CONTROL PANEL

LIGHTING CONTROL	
SYMBOL	DESCRIPTION
 S a,b	TOGGLE SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE:  3 - THREE WAY SWITCH OS - OCCUPANCY SENSOR VS - VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
 D a,b,c	DIMMER SWITCH, SUBSCRIPTS INDICATE TYPE:  3 - THREE WAY DIMMER SWITCH a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
	DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR UNO WITH SUBSCRIPT. SUBSCRIPTS INDICATE TYPE:  a,b,c - INDICATES CONTROL ZONES
	CEILING MOUNTED VACANCY SENSOR

## ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT								POWER SOURCE, PROTECTION & WIRING				
ITEM ID	NAME	ROOM LOCATION	HP	KW	AMPERAGE	PHASE	VOLTAGE	SOURCE	OCPD RATING	WIRING FROM SOURCE TO EQUIPMENT VIA CONTROLLER / DISCONNECTING MEANS		
										PHASE	GROUND	CONDUIT
FCU-A	FAN COIL UNIT				5.5	1	208	ACCU-A		(2)#12	(1)#12	3/4"
FCU-A	FAN COIL UNIT				5.5	1	208	ACCU-A		(2)#12	(1)#12	3/4"
ACCU-A	CONDENSING UNIT				36.0	1	208	D	50A/2P	(2)#6	(1)#10	1"
ACCU-A	CONDENSING UNIT				36.0	1	208	D	50A/2P	(2)#6	(1)#10	1"
ERV-A	ENERGY RECOVERY UNIT				10.1	1	120	D	20A/1P	(2)#12	(1)#12	3/4"
ERV-A	ENERGY RECOVERY UNIT				10.1	1	120	D	20A/1P	(2)#12	(1)#12	3/4"
TEF-A	FAN COIL UNIT			0.07	0.6	1	120	D	20A/1P	(2)#12	(1)#12	3/4"
TEF-A	FAN COIL UNIT			0.07	0.6	1	120	D	20A/1P	(2)#12	(1)#12	3/4"
PP-1	SEWAGE PUMP		2		13.2	1	208	D	20A/2P	(2)#12	(1)#12	3/4"
PP-CONTROLLER	PUMP CONTROLLER				5.0	1	120	D	20A/1P	(2)#12	(1)#12	3/4"

ABBREVIATIONS	
AU	AT UNIT
B	ASD WITH BYPASS
ECB	ENCLOSED CIRCUIT BREAKER
F	FUSED
HOA	HAND-OFF-AUTO WITH RELAY
IU	INTEGRAL WITH UNIT
M	MULTIPLE MOTOR ASD
NF	NON-FUSED
R	ASD WITH REDUNDANT ASD
RE	REMOTE

MOTOR CONTROLLER								DISCONNECTING MEANS				
MANUAL MOTOR STARTER	MAGNETIC MOTOR STARTER	COMBINATION MAGNETIC STARTER AND SAFETY SWITCH	ADJUSTABLE SPEED DRIVE	PACKAGED CONTROL UNIT	NEIMA ENCLOSURE TYPE	NEIMA STARTER SIZE	LOCATION	SAFETY SWITCH	SAFETY SWITCH AMPERE RATING	FUSEBOX AMPERE RATING	NEIMA ENCLOSURE TYPE	LOCATION
				X				NF	30		1	AU
				X				NF	30		1	AU
				X				NF	60		3R	AU
				X				NF	60		3R	AU
				X				NF	30		1	AU
				X				NF	30		1	AU
X							RE				IU	
X							RE				IU	
				X				NF	30		1	AU
				X				NF	30		1	AU

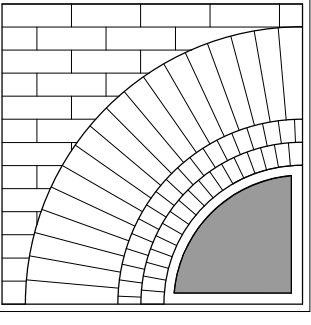
GENERAL NOTES	
A.	REFER TO SPECIFICATIONS FOR REQUIREMENTS OF MOTOR CONTROLLERS AND DISCONNECTING MEANS.
B.	PROVIDE CONTROLLER SIZED PER HP RATING.
C.	LOCATIONS/QUANTITIES OF FIRE ALARM DUCT DETECTORS ARE SHOWN ON THE CONTRACT DRAWINGS.

CONNECTIONS				EQUIPMENT	
FIRE ALARM SHUTDOWN	FIRE ALARM DUCT DETECTOR(S)	MOTORIZED DAMPER	LINE VOLTAGE TEMPERATURE CONTROL	REFERENCE NOTES	ITEM ID
					FCU-A
					FCU-A
					ACCU-A
					ACCU-A
					ERV-A
					ERV-A
					TEF-A
					TEF-A
					PP-1
					PP-CONTROLLER

Issued for Bidding 9/12/2023

ISSUES AND REVISIONS

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE ALTERED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



BUTLER  
ROWLAND  
MAYS  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020


P: 518-885-1255  
F: 518-885-1266  
www.brmarchitects.com

Phase 1 Interior  
Improvements to the  
Lower Level  
for the

The  
Beekman  
Library

11 Town Center Boulevard  
Hopewell Junction, NY 12533

PROJECT

 **ENGINEERING**


Mechanical/Electrical/Engineering Consultants

433 STATE STREET, 4TH FLOOR  
ROCHESTER, NY 14609

518.335.7711  
www.mechengineering.com

CONSULTANT

CONSULTANT



Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

STAMP

CALLLED NORTH

DWN. BY: KML  
SCALE: 1/8" = 1'-0"  
JOB NO.: 22-48-09  
DATE: 06/02/2023

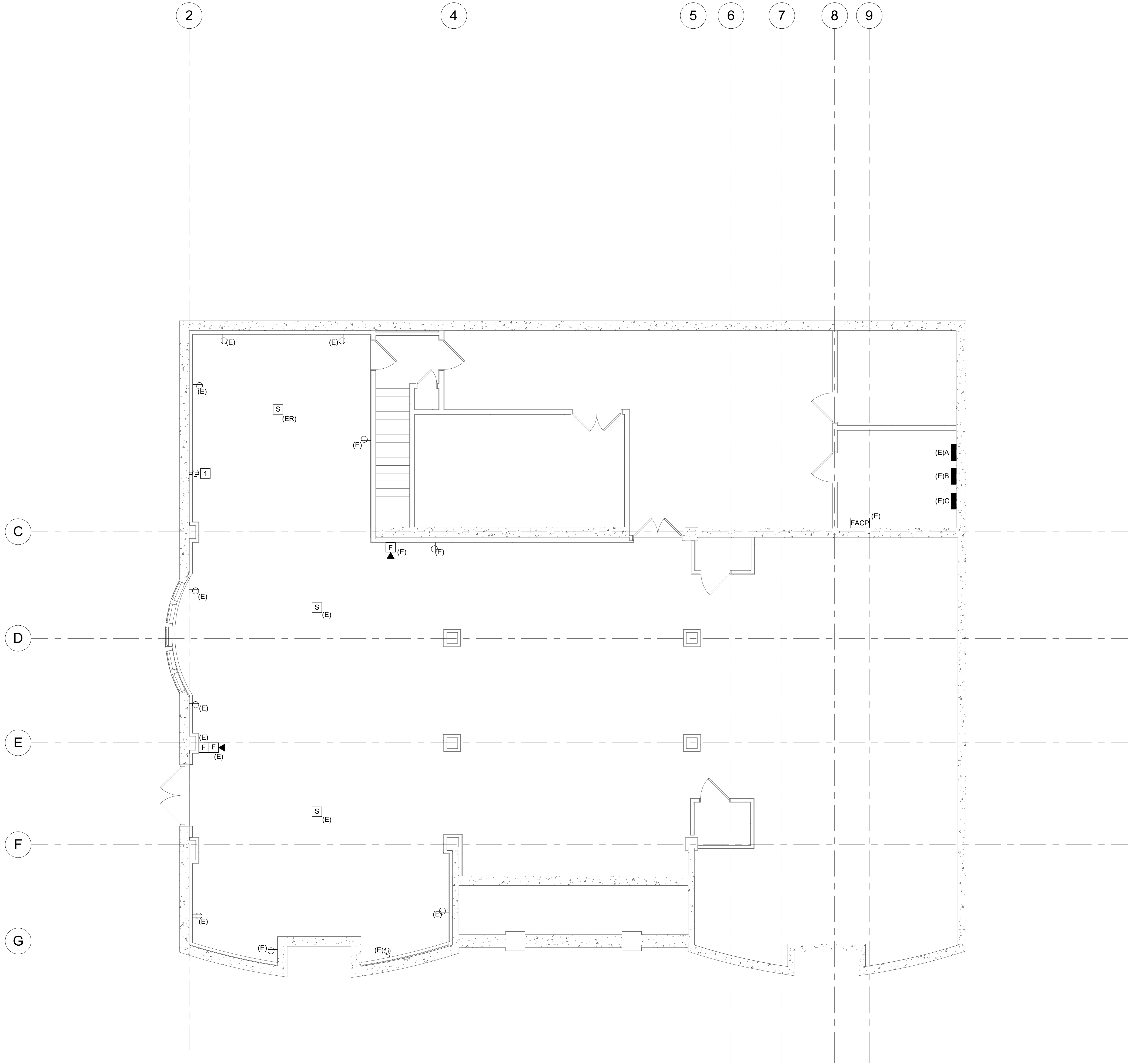
ELECTRICAL  
LEGEND &  
ABBREVIATIONS

TITLE

E001

DWG. NO.





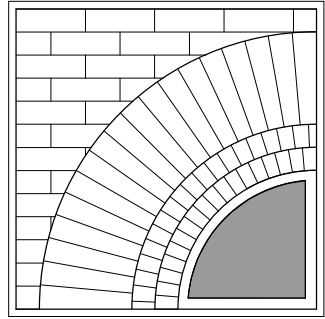
1 LOWER LEVEL POWER & SYSTEMS REMOVALS PLAN  
3/16" = 1'-0"

**GENERAL NOTES:**

- A. MAINTAIN EXISTING CIRCUITS WITH REMOVAL OF DEVICES FOR ALL EXISTING DEVICES OUTSIDE THE SCOPE OF WORK.

**REMOVAL NOTES:**

1. DISCONNECT AND REMOVE REECPTACLE, MAINTIAN EXISTING CIRCUIT SUCH THAT ALL REMAINING DEVICES ON THIS CIRCUIT REMAIN CIRCUITED. MAINTAIN EXISTING BACKBOX, PROVIDE BLANK FACEPLATE COVER.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

**PROJECT**

**ME ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR 518.535.5171  
ROCHESTER, NY 14608 www.meeengineering.com

**CONSULTANT**

**CONSULTANT**



**STAMP** Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

**CALLLED NORTH**

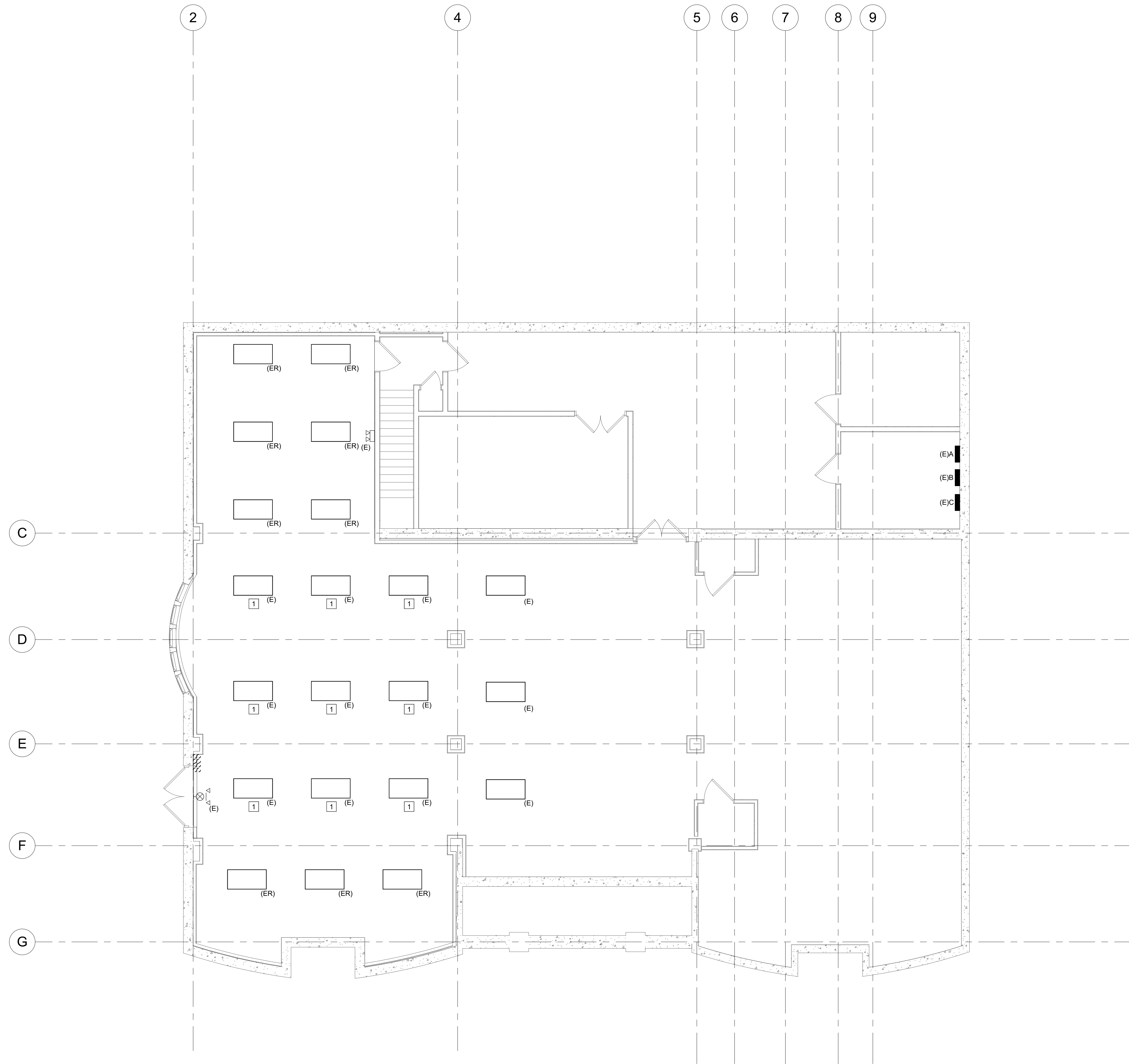
DWN. BY: KML  
SCALE: As Indicated  
JOB NO.: 22-48-09  
DATE: 06/02/2023

**LOWER LEVEL  
POWER &  
SYSTEMS  
REMOVALS  
PLAN**

**TITLE**

**ER100**  
DWG. NO.





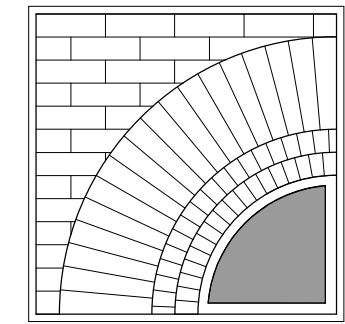
1 LOWER LEVEL LIGHTING REMOVALS PLAN  
3/16" = 1'-0"

GENERAL NOTES:

A. DISCONNECT AND STORE ALL LIGHT FIXTURES SHOWN AS EXISTING TO BE RELOCATED. MAINTAIN EXISTING LIGHTING CIRCUITS AND CONTROLS WITH DISCONNECTION OF LIGHT FIXTURES FOR ALL EXISTING LIGHT FIXTURES OUTSIDE THE SCOPE OF WORK.

REMOVAL NOTES:

1. TEMPORARILY SUSPEND AND PROTECT LIGHT FIXTURES WITH REMOVAL OF CEILING.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020  
P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the  
The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

PROJECT

**ME ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR  
ROCHESTER, NY 14609 518.535.5171  
www.meengineering.com

CONSULTANT

CONSULTANT



STAMP Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

CALLLED NORTH

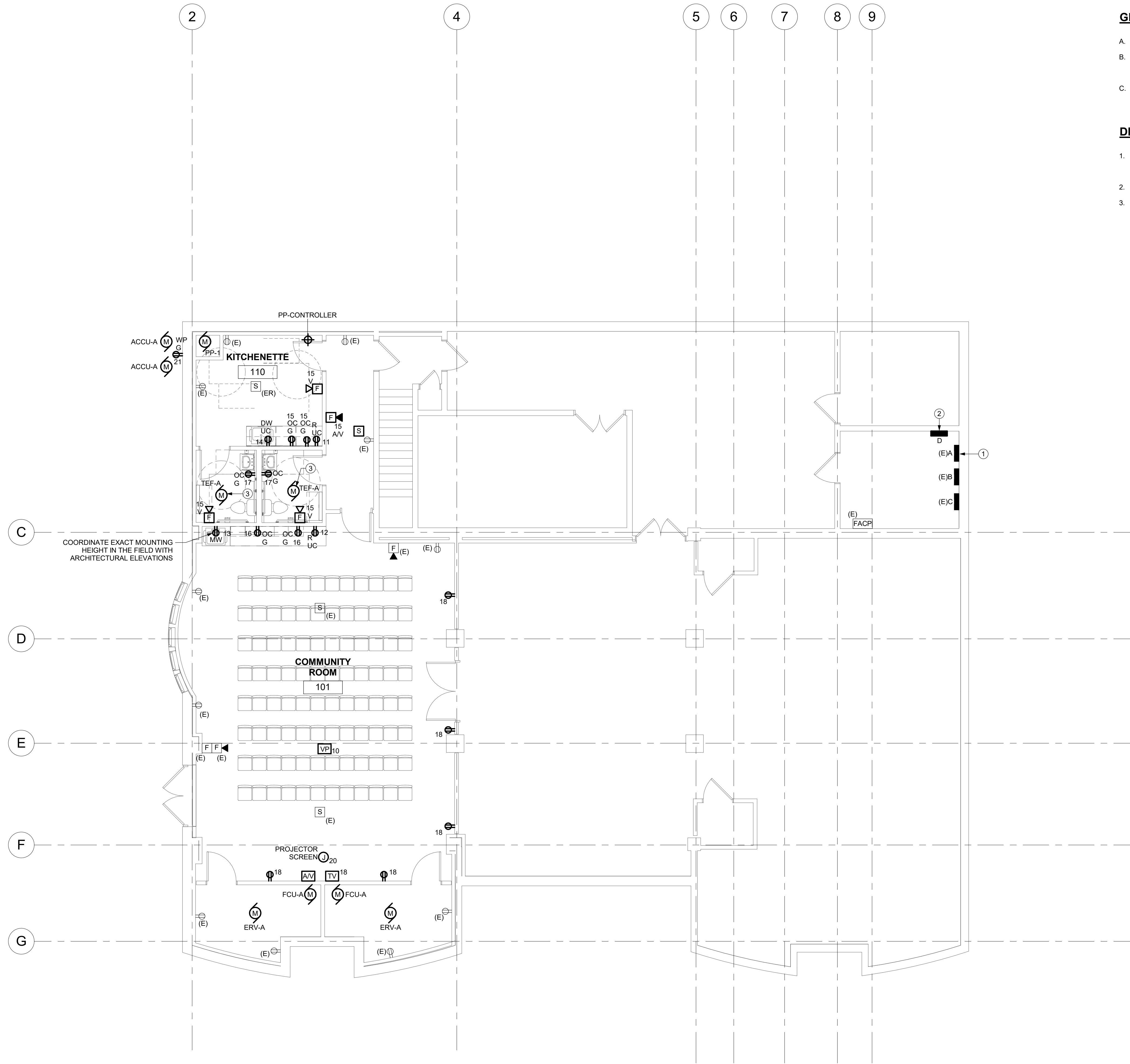
DWN. BY: KML  
SCALE: As Indicated  
JOB NO.: 22-48-09  
DATE: 06/02/2023

**LOWER LEVEL  
LIGHTING  
REMOVALS  
PLAN**

TITLE

**ER200**

DWG. NO.



1 LOWER LEVEL POWER & SYSTEMS PLAN  
3/16" = 1'-0"

**GENERAL NOTES:**

- ALL NEW WIRING SHALL BE MINIMUM (2)#12 WITH (1)#12 GROUND, UNLESS OTHERWISE NOTED.
- CONNECT ALL NEW FIRE ALARM NOTIFICATION AND INITIATION DEVICES TO EXISTING FIRE ALARM CIRCUITS ASSOCIATED WITH THE FIRE ALARM ZONE THAT THE DEVICES ARE IN. ALL NEW FIRE ALARM WIRING SHALL BE IN EMT OR SURFACE MOUNTED RACEWAY.
- ALL NEW RECEPTACLES IN THE COMMUNITY ROOM, KITCHENETTE, AND BATHROOMS SHALL BE TAMPER-RESISTANT TYPE.

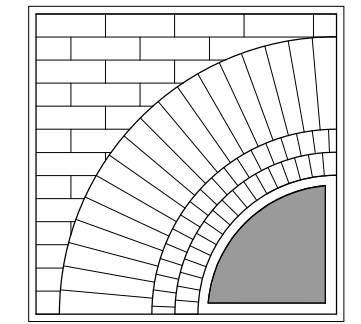
**DRAWING NOTES:**

- RELOCATE CIRCUITS NUMBERS 1, 3, & 5 IN PANEL A TO CIRCUIT NUMBERS 36, 38, 42 IN PANEL B. PROVIDE (1)100A 3P CIRCUIT BREAKER TO FEED NEW SUB PANEL D IN OPEN CIRCUIT SPACES 1,3,5.
- PROVIDE (4)#2 & (1)#8G IN 1-1/4" C FEED FROM PANEL A TO PANEL D.
- CONNECT TO BATHROOM CIRCUIT, FAN SHALL BE CONTROLLED BY BATHROOM LIGHT SWITCH.

Issued for Bidding 9/12/2023

**ISSUES AND REVISIONS**

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE ALTERED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

**PROJECT**



ME ENGINEERING  
Mechanical/Electrical Engineering Consultants  
Capital District • Rochester • Buffalo • Syracuse  
433 STATE STREET, 4TH FLOOR 518.535.5171  
500 NICHOLS AVENUE 518.535.5171  
www.meengineering.com

**CONSULTANT**

**CONSULTANT**



**STAMP** Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

**CALLED NORTH**

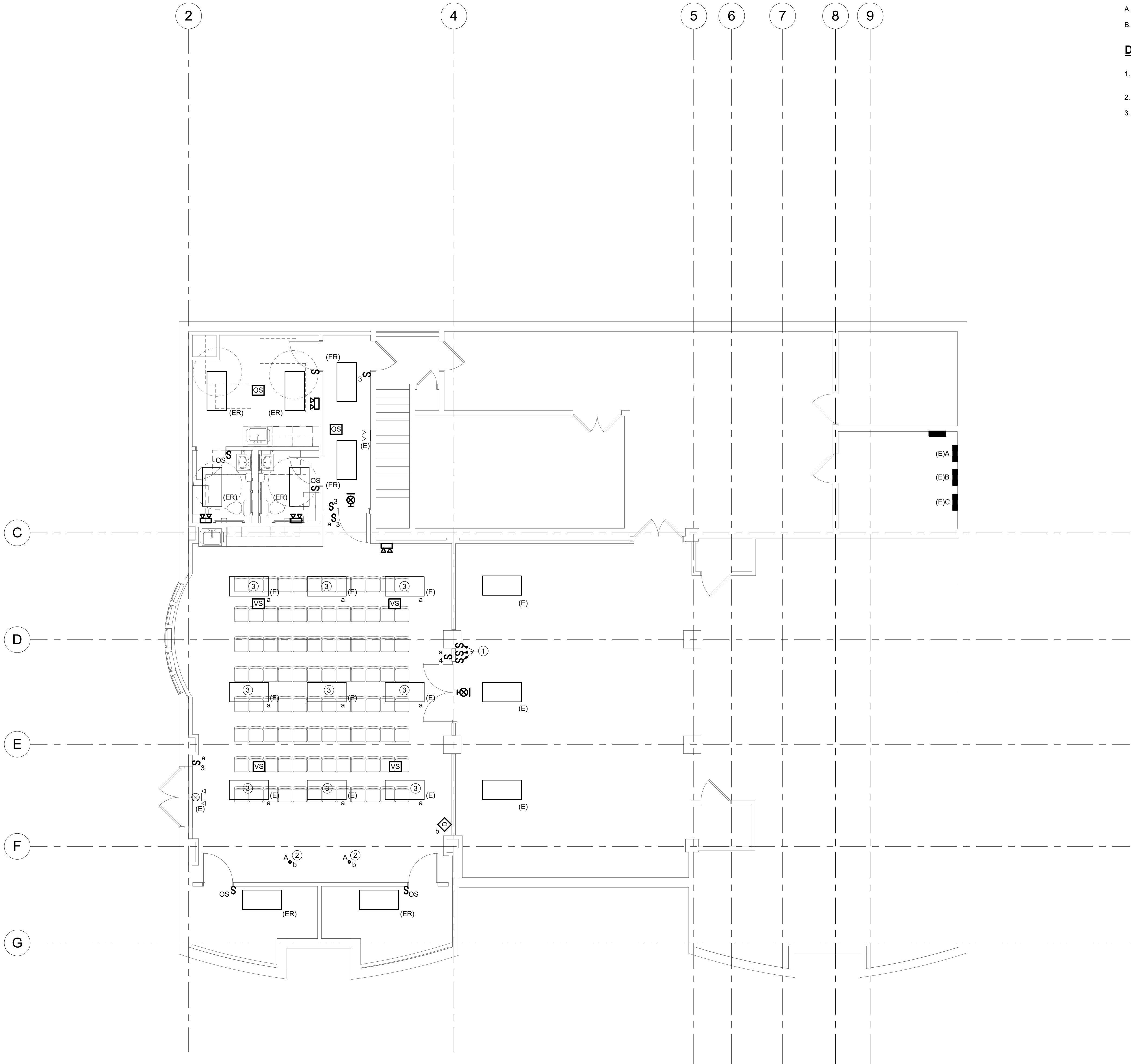
DWN. BY: KML  
SCALE: As Indicated  
JOB NO.: 22-46-09  
DATE: 09/01/2023

**LOWER LEVEL  
POWER &  
SYSTEMS  
PLAN**

**TITLE**

**E100**

DWG. NO.



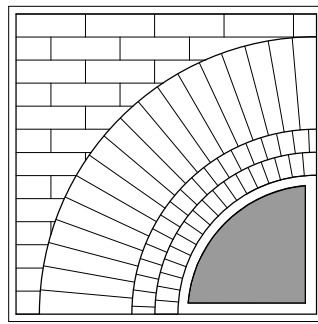
1 LOWER LEVEL LIGHTING PLAN  
3/16" = 1'-0"

**GENERAL NOTES:**

- A. ALL NEW WIRING SHALL BE MINIMUM (2)#12 WITH (1)#12 GROUND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED.  
B. CLEAN EXISTING LENSES AND PROVIDE NEW FLUORESCENT LAMPS FOR ALL EXISTING AND RELOCATED LIGHT FIXTURES IN THE AREAS OF WORK.

**DRAWING NOTES:**

1. CONNECT SWITCH TO LIGHTING CONTROL CIRCUITS MAINTAINED WITH REMOVALS.  
2. CIRCUIT TO EXISTING BASEMENT LIGHTING CIRCUIT.  
3. RECONNECT EXISTING LUMINAIRES TO NEW CEILING ASSEMBLY.



**BUTLER  
ROWLAND  
MAYS**  
ARCHITECTS, LLP

57 West High Street  
Ballston Spa  
New York 12020

P: 518-885-1255  
F: 518-885-1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

PROJECT

**ME ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR  
ROCHESTER, NY 14608 518.335.5171  
www.meengineering.com

CONSULTANT

CONSULTANT



STAMP Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

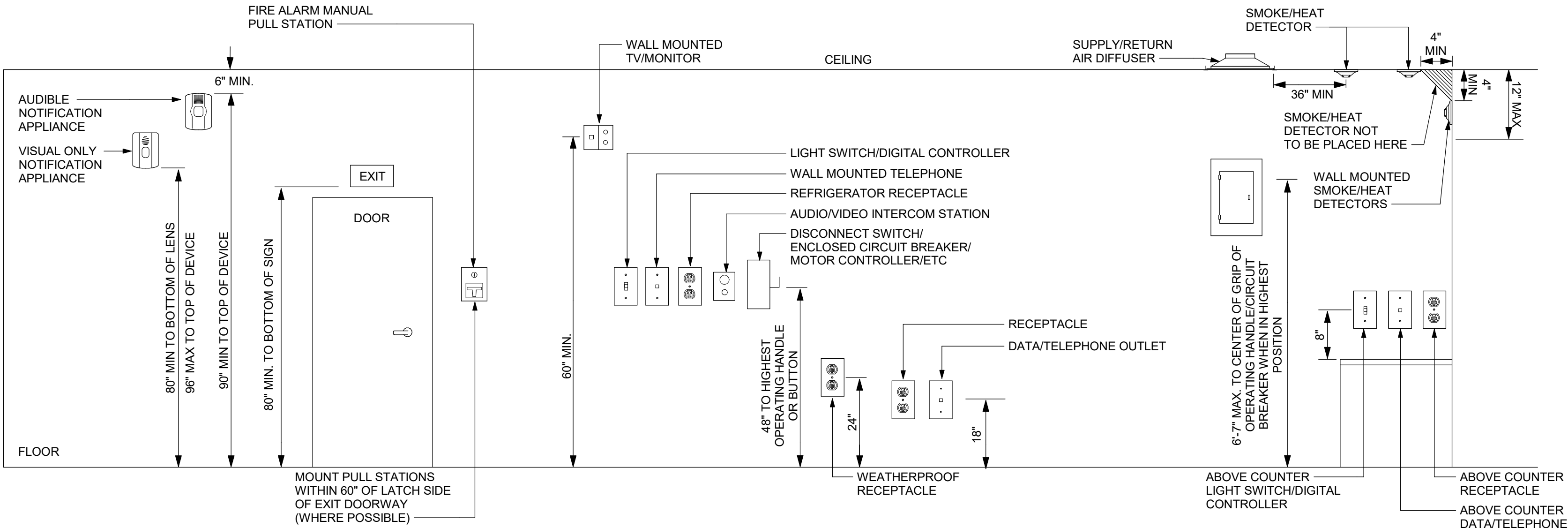
CALLLED NORTH

DWN. BY: KML  
SCALE: As Indicated  
JOB NO.: 22-48-09  
DATE: 06/02/2023

**LOWER LEVEL  
LIGHTING  
PLAN**

TITLE

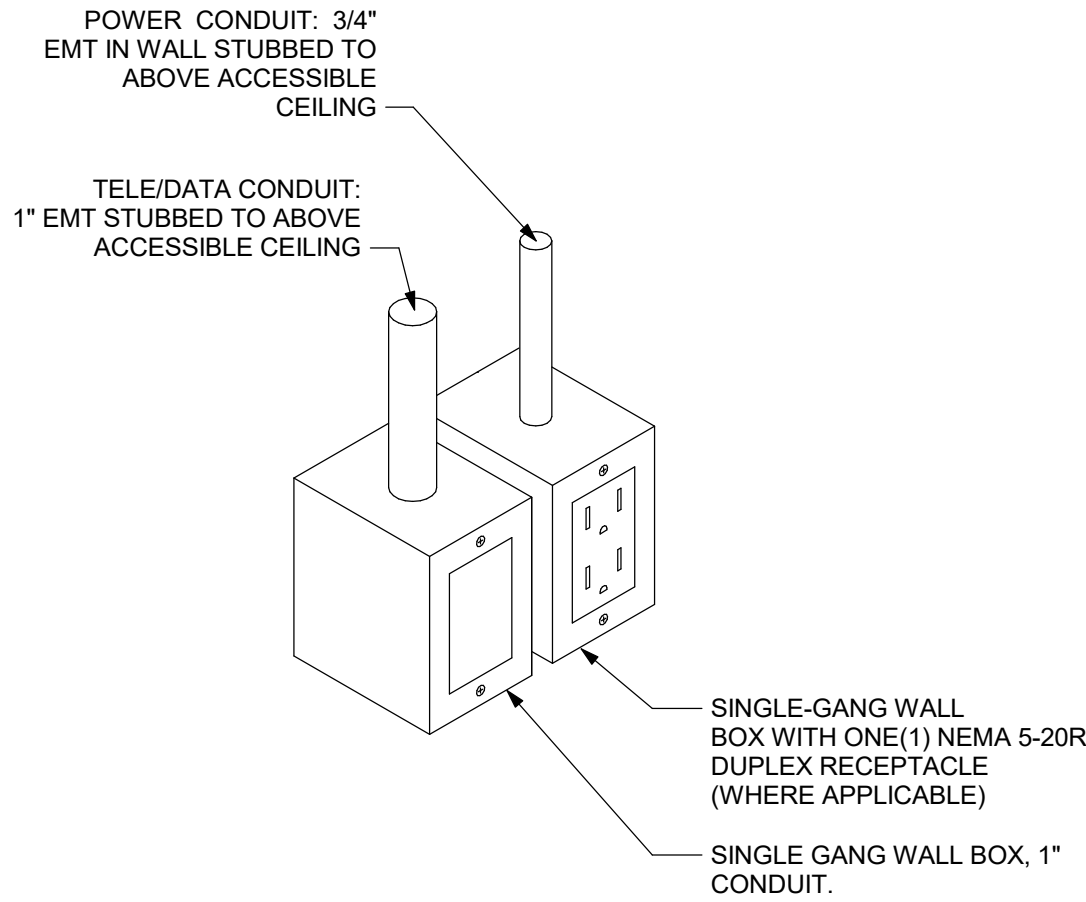
**E200**  
DWG. NO.



**DETAIL NOTES:**  
A. MOUNTING LOCATIONS OF RECEPTACLES, SWITCHES, FIRE ALARM, NURSE CALL AND DATA DEVICES.  
B. DEVICE HEIGHTS ARE TO BE AS INDICATED UNLESS OTHERWISE NOTED.

**1 DEVICE MOUNTING LOCATION DETAIL**

NTS



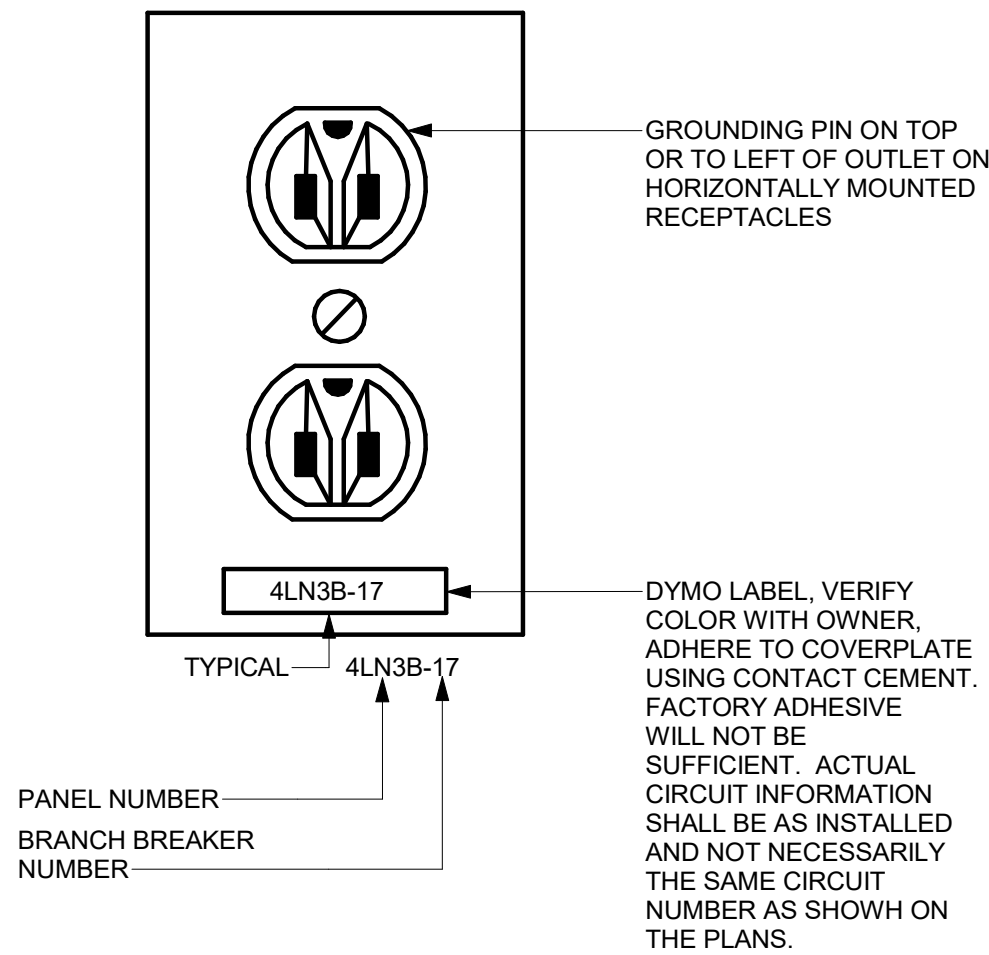
SYMBOL: TV

**2 TYPICAL COMB POWER & TELE/DATA OUTLET DETAIL CONDUIT AND BACKBOX ONLY**

NO SCALE

**LUMINAIRE SCHEDULE**

TYPE	DESCRIPTION	MFR. & CATALOG No.	LAMP	VOLTAGE	MOUNTING	UNIT WATTS	REFERENCE NOTES
A	4" RECESSED COMMERCIAL DOWNLIGHT, CLEAR DIFFUSED W/ MATTE DIFFUSE FINISH, GALVANIZED STEEL CONSTRUCTION, 55 DEGREE CUTOFF, 10% 0-10V DIMMING DRIVER	LITHONIA LDN4 SERIES OR APPROVED EQUAL	LED 80CRI 3500K 1000 LUMENS	UNV	RECESSED	11	



**DETAIL NOTES:**

- A. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL.
- B. DO NOT INSTALL RECEPTACLES, COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

**4 TYPICAL RECEPTACLE IDENTIFICATION**

NTS

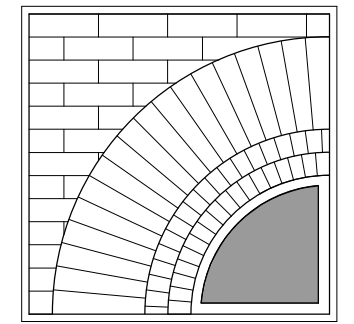
**PANELBOARD DIRECTORY**

M/E PROJECT:		233074				PANEL NAME:		D					TYPE:					
PROJECT NO.:						VOLTAGE:		208		PHASE:		3		MOUNTING:		SURFACE		
FACILITY:		BEEKMAN LIBRARY				VOLTAGE:		42		WIRE:		4		OCP TYPE:		MLO		
LOCATION:						SOURCE:		A						BUS RATING:		100		
														MCB RATING:				

Issued for Bidding 9/12/2023

**ISSUES AND REVISIONS**

© THIS DRAWING AND THE CONTENTS THEREOF ARE THE SOLE AND COPYRIGHTED PROPERTY OF BUTLER ROWLAND MAYS ARCHITECTS, LLP AND MAY NOT BE ALTERED, COPIED OR REPRODUCED BY ANY METHOD FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF BUTLER ROWLAND MAYS ARCHITECTS, LLP.



**BUTLER  
ROWLAND  
MAYS  
ARCHITECTS, LLP**

57 West High Street  
Ballston Spa  
New York 12020

P: 518•885•1255  
F: 518•885•1266  
www.brmarchitects.com

**Phase 1 Interior  
Improvements to the  
Lower Level  
for the**

**The  
Beekman  
Library**

11 Town Center Boulevard  
Hopewell Junction, NY 12533

**PROJECT**

**ENGINEERING**  
Mechanical/Electrical Engineering Consultants  
Capital District | Rochester | Buffalo | Syracuse  
433 STATE STREET, 4TH FLOOR  
ROCHESTER, NY 14608 518.535.5771  
www.eengineering.com

**CONSULTANT**

**CONSULTANT**



**STAMP** Reg. Exp: 05/31/2024  
Cert. of Auth: 0018443

**CALLED NORTH**

**DWN. BY: Author  
SCALE: NO SCALE  
JOB NO.: 22-46-09  
DATE: 08/29/23**

**ELECTRICAL  
DETAILS**

**TITLE**

**E500**

DWG. NO.