MIAMI COUNTY

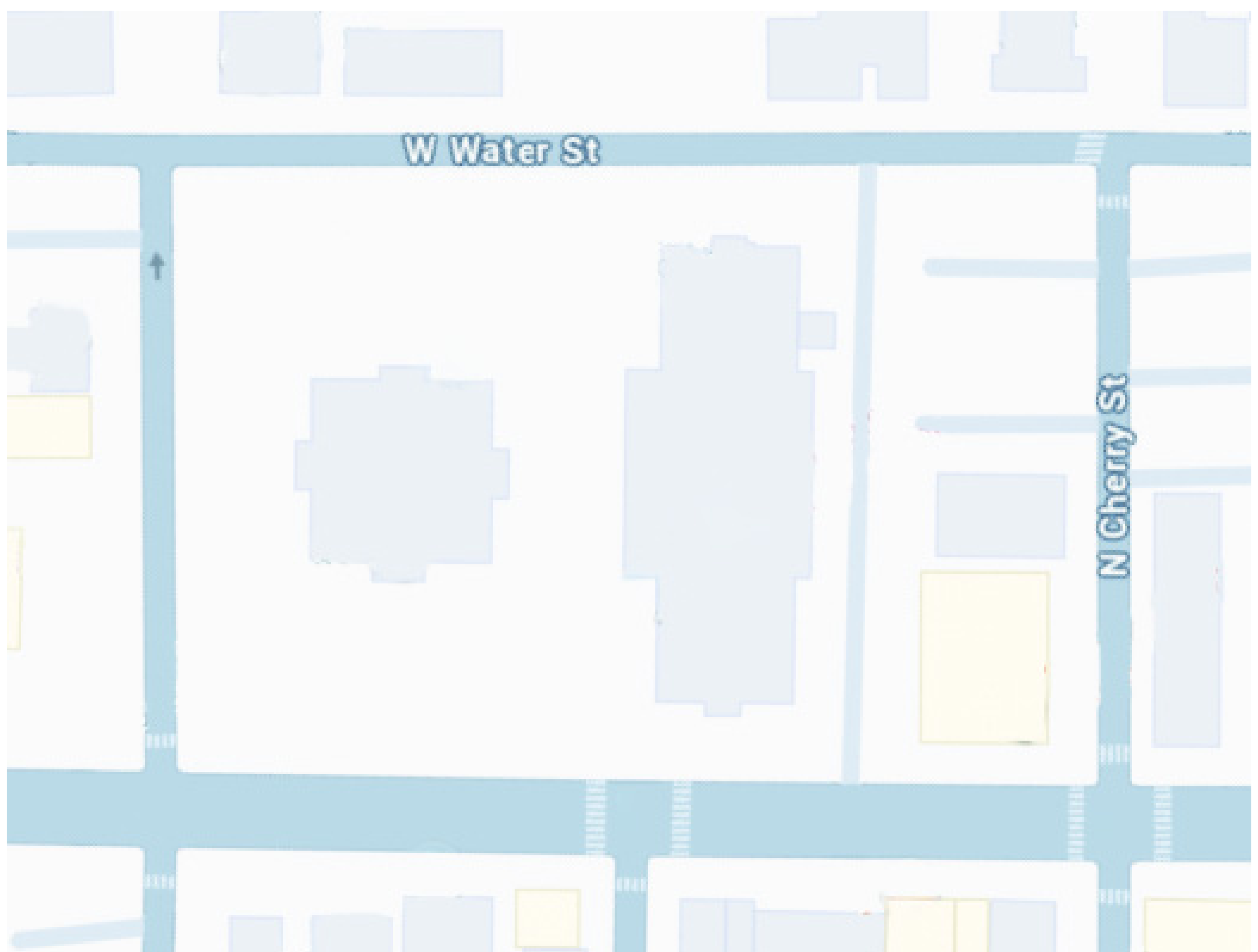
COMMISSIONER'S HEARING ROOM RENOVATION

201 W Main St, Troy, OH 45373

BID & PERMIT REVIEW DOCUMENTS

DRAWING INDEX

SHEET NO.	SHEET NAME
GENERAL	
G001	TITLE SHEET
G002	GENERAL NOTES AND SYMBOLS
G003	WALL TYPES
ARCHITECTURAL DEMO	
AD101	DEMO PLAN
AD121	DEMO CEILING PLAN
AD410	DEMO ELEVATIONS
AD411	DEMO ELEVATIONS
ARCHITECTURAL	
A101	FIRST FLOOR PLAN
A121	REFLECTED CEILING PLAN
A131	FLOOR FINISH PLAN
A141	FURNITURE PLAN
A301	BUILDING SECTIONS
A410	INTERIOR ELEVATIONS
A411	INTERIOR ELEVATIONS
A412	INTERIOR ELEVATIONS
A520	INTERIOR & CASEWORK DETAILS
A521	INTERIOR DETAILS
A522	DIAS DETAILS
A601	DOOR SCHEDULE, TYPES, AND DETAILS
A801	INTERIOR RENDERINGS
PLUMBING	
P0001	PLUMBING COVER SHEET
P4100	PLUMBING PLAN - OVERALL
P4101	PLUMBING SANITARY & VENT PLAN
P4501	PLUMBING - DETAILS
MECHANICAL	
M001	MECHANICAL COVER SHEET
M1101	MECHANICAL DEMO PLAN
M3101	MECHANICAL DUCTWORK PLAN
ELECTRICAL	
E001	ELECTRIC COVER SHEET
E1101	ELECTRIC DEMO PLAN
E3101	ELECTRIC LIGHTING PLAN
E3601	ELECTRIC LIGHTING - SCHEDULES
E3602	ELECTRIC LIGHTING - ENERGY COMPLIANCE
E4101	ELECTRIC POWER PLAN
E4102	ELECTRIC RACEWAY PLAN
E4501	ELECTRIC - DETAILS
E4601	ELECTRIC POWER - SINGLE LINE DIAGRAM & SCHEDULES



PROJECT UTILIZATION MAP

VICINITY MAP

NORTH

12/23/2025 10:18:56 AM

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS :

Number	Description	Date

PRINTINGS :

BID & PERMIT REVIEW DOCUMENTS	10/03/2025

CONSULTANTS

MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

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TITLE SHEET

G001

SYMBOLS

DRAWING TITLE — DETAIL NUMBER; DETAIL TITLE; DETAIL SCALE (1 floor plan, SCALE |1/4" = 1'-0")

DOOR NUMBER — (101) DOOR NUMBER

NEW DOOR

SECTION — SECTION I.D. NUMBER; NOTE (IF APPLICABLE); SHEET WHERE SECTION IS LOCATED (1 / A101 / SIM)

WINDOW — (1t) WINDOW IDENTIFICATION

EXISTING DOOR

ROOM — ROOM NAME; ROOM NUMBER; ROOM AREA (ROOM NAME / 101 / 150 SF)

FINISH — XX-# FINISH IDENTIFICATION

COLUMN LINE — GRID LINE REFERENCE

ELEVATION — ELEVATION I.D. NUMBER; SHEET WHERE ELEVATION IS LOCATED (1 / A101 / SIM)

KEYED NOTES — (3.26) KEYED NOTE DESIGNATION

ELEVATION HEIGHT — ELEVATION HEIGHT; ELEVATION REFERENCE (100'-0" T.O.S.)

DETAIL (ENLARGED) — DETAIL I.D. NUMBER; SHEET WHERE DETAIL IS LOCATED; NOTE (IF APPLICABLE); AREA TO BE ENLARGED (1 / A101 / SIM)

REVISIONS — REVISION AREA; REVISION DESIGNATION

WALL — WALL TAG

MATERIAL INDICATIONS

- STRUCTURAL WOOD
- FINISHED WOOD
- PLYWOOD
- STEEL OR METAL
- CERAMIC TILE
- CEMENT, STUCCO, PLASTER, OR STONE
- RIGID INSULATION
- BATT, BLANKET, OR LOOSE FILL INSULATION
- SPRAY-APPLIED INSULATION
- GRANULAR/GRAVEL FILL
- FACE BRICK
- ACOUSTICAL TILE
- CARPET
- METAL (GREATER THAN 1" = 1'-0" SCALE)
- METAL (LESS THAN 1" = 1'-0" SCALE)
- GLASS BLOCK
- CONCRETE MASONRY UNIT (CMU)
- EARTH
- CONCRETE (SECTION)

WALL INDICATIONS

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- NEW METAL STUD PARTITION
- NEW CMU MASONRY PARTITION

SHEET DESIGNATION

DISCIPLINE:
C - CIVIL
L - LANDSCAPE
A - ARCHITECTURE
M - MECHANICAL
E - ELECTRICAL
P - PLUMBING
S - STRUCTURAL
K - FOOD SERVICE

DISCIPLINE MODIFIER

SHEET NUMBER WITHIN SERIES

XX100

GENERAL NOTES

A. CONTRACTORS SHALL REVIEW THE EXISTING CONDITIONS PRIOR TO SUBMITTING PROPOSAL. NOTIFY ARCHITECT PRIOR TO SUBMITTING PROPOSAL IF CONDITIONS EXIST WHICH CONFLICT WITH THE PROPOSED WORK AND FINISHES. IF THIS NOTIFICATION DOES NOT OCCUR, THEN THE CONTRACTOR, WILL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS.

B. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE SITE ACCESS, MATERIAL STAGING AREAS, AND DEMOLITION WORK FOR THE PROJECT. ALL MATERIALS AND DEBRIS SHALL BE DELIVERED AND REMOVED FROM THE SITE AS DIRECTED BY THE OWNER.

C. CONTRACTOR'S BID SHALL INCLUDE THE GREATEST QUANTITY AND QUALITY OF ALL ITEMS AND ASSEMBLIES FOR A COMPLETE AND FULLY OPERATIONAL PROJECT IN ACCORDANCE WITH OWNERS, ARCHITECTS, AND GOVERNING AUTHORITY REQUIREMENTS.

D. CONTRACTOR SHALL PROPERLY PLAN AND EXECUTE WORK RELATIVE TO AND IN CONSIDERATION OF WORK TO BE PERFORMED BY OTHERS IN ORDER TO MITIGATE ALL IMPACTING ISSUES AND CONFLICTS. NO EXTRA COSTS FOR THE LACK OF PROPER PLANNING AND EXECUTION WILL BE PERMITTED.

E. CONTRACTOR SHALL VERIFY AS-BUILT CONDITIONS FOR ANY MATERIAL DIFFERENCE PRIOR TO PERFORMING ANY WORK AND SHALL NOTIFY THE ARCHITECT AND CONSTRUCTION MANAGER OF ANY DISCREPANCIES.

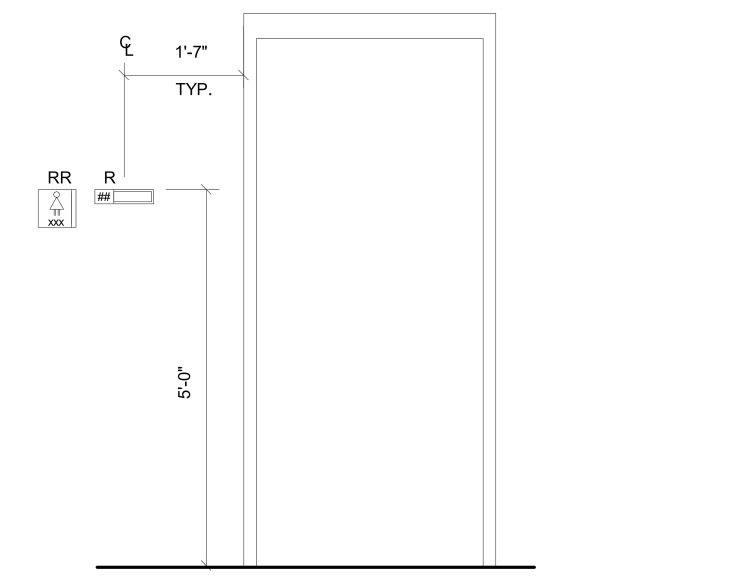
F. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A WEATHER TIGHT BUILDING DURING CONSTRUCTION.

G. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING THE CONTRACT DOCUMENTS WHICH INCLUDES BUT IS NOT LIMITED TO THE PLANS, SPECIFICATIONS, AND THE ADDENDA. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS IF REQUIRED BY ALL.

ABBREVIATIONS

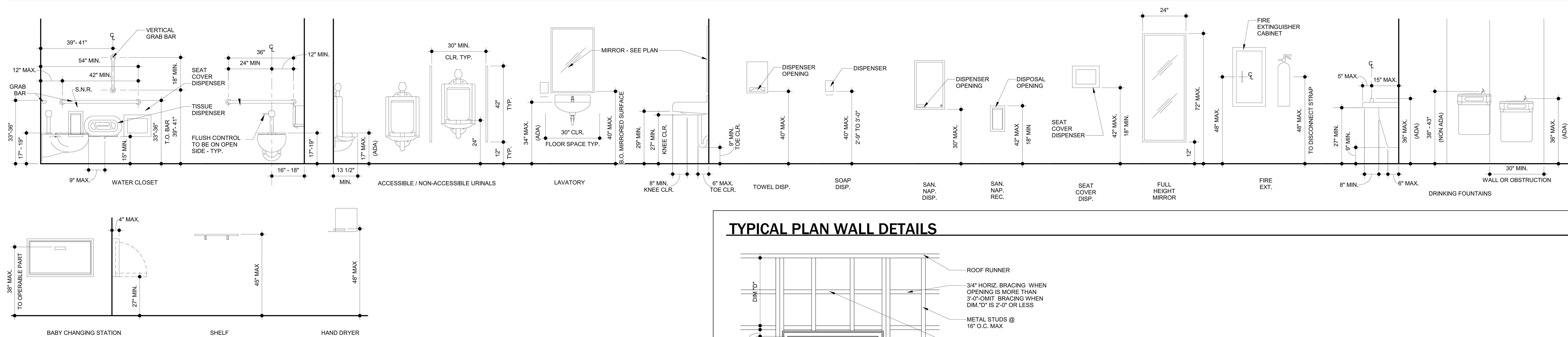
&	AND
∠	ANGLE
@	AT
℄	CENTERLINE
X²	SQUARE
#	POUND OR NUMBER
A#	AIR WITH NUMBER OF VALVES INDICATED
A/C	AIR CONDITIONING
ABI	ADDITIONAL BID ITEM
ACOUS	ACOUSTICAL
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADD'L	ADDITIONAL
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
ADJ.	ADJUSTABLE or ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AL or ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
ASB	ASBESTOS
ASC	ACID STORAGE CABINET
ASPH	ASPHALT
AUTO	AUTOMATIC
BBD	BULLETIN BOARD
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRZ	BRONZE
BSMT	BASEMENT
BSC	BIOSAFETY CABINET
C.	COURSES
CAB	CABINET
C.B.	CATCH BASIN or CHALKBOARD
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CHAM	CHAMFER
CHK. BD.	CHALK BOARD
C.I.	CAST IRON
C.J.	CONTROL JOINT
C.L.	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CP	CLOSURE PANEL OR FINISHED PANEL
CS	CUPSINK, SEE SPECIFICATIONS FOR SIZE
CSMT	CASEMENT
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSUNK
CW	COLD WATER
D	DATA
D.A.	DOOR ACTUATOR
DBL	DOUBLE
DEPT	DEPARTMENT
DEPART	DEPARTURE
DET	DETAIL
DF	DRINKING FOUNTAIN
DI	DIONIZED WATER
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
D.O.	DOOR OPENING
DR	DRYING RACK or DOOR
DS	DOWN SPOUT
DSP	DRY STANDPIPE
DW	DUMBWAITER
DWR	DRAWER
DWG	DRAWING (S)
E	EAST OR ELECTRIC OUTLET, COORDINATE WITH ELECTRICAL CONTRACTOR
EA	EACH
E.C.C.	ENVIRONMENTAL CONTROL CHAMBER
EJ	EXPANSION JOINT
EL or ELEV	ELEVATION or ELEVATOR
ELEC	ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE
ENLRG'D	ENLARGED
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER STATION BY PLUMBING CONTRACTOR
EW	EMERGENCY EYEWASH BY PLUMBING CONTRACTOR
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EX or EXIST	EXISTING
EXPO	EXPOSED
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FAK	FIRST AID KIT
FB	FIRE BLANKET or FLAT BAR
FBD	FIREBOARD
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FGL	FIBERGLASS
FH	FUME HOOD
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHS	FIRE HOSE STATION
FIN	FINISH
FL or FLR	FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY (CMU)
FOS	FACE OF STUDS
FP	FIREPROOF
FR(T)	FIRE RETARDANT (TREATED)
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FILLER STRIP or FULL SIZE
FSC	FLAMMABLE STORAGE CABINET
FT	FOOT OR FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FV	FIELD VERIFY
G#	GAS COCK WITH NUMBER OF VALVES INDICATED
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GL	GLASS or GRID LINE
GND	GROUND
GR	GUARD RAIL or GROUND
GT	GROUT
GYP	GYPSUM
HB	HOSE BIBB
HBD	HARDBOARD
HC	HOLLOW CORE
HD	HEAVY DUTY
HDR	HEADER
HDWD	HARDWOOD
HDWE	HARDWARE
HEX	HEXAGON
HGT	HEIGHT
HM	HOLLOW METAL
HORZ	HORIZONTAL
HR	HOUR
HTG	HEATING
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HW	HOT WATER
ICU	INTENSIVE CARE UNIT
ID	INSIDE DIAMETER (DIM)
INSUL	INSULATION
INT	INTERIOR
ISO	ISOMETRIC
JAN	JANITOR
JC	JANITOR'S CLOSET
JT	JOINT
KIT	KITCHEN
KPL	KICKPLATE
KS	KNEE SPACE
L	LEFT
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LKR	LOCKER
LOC	LOCATION
LLD	LEAD LINED DOOR
LT	LIGHT
LTD	LIMITED
LTL	LINTEL
LVL	LEVEL
LVR	LOUVER
M	METER
MACH	MACHINE
MAINT	MAINTENANCE
MACH	MACHINE
MAS	MASONRY
MAX	MAXIMUM
MM	MILLIMETER
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD	MOLDING
MO	MASONRY OPENING
MOD	MODULAR or MODIFY (IED)
MOV	MOVABLE
MT	MOUNT
MTL or MET	METAL
MTD	MOUNTED
MUL	MULLION
MWK	MILLWORK
N	NORTH
NAT	NATURAL
NI	NICKEL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NON COM	NON-COMBUSTABLE
NTS	NOT TO SCALE
O/	OVER
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER (DIA)
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPN'G	OPENING
OPP	OPPOSITE
OPS	OPPOSITE SURFACE
PRCST	PRE CAST
PB	PANIC BAR
PBD	PARTICLE BOARD
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATE (D)
PERI	PERIMETER
PG	PLATE GLASS
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PORT	PORTABLE
PPG	POLISHED PLATE GLASS
PR	PAIR
PS	PULL SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT or PRESSURE TREATED
PTD/PTR	PAPER TOWEL DISPENSER/RECEPTICAL
PTN	PARTITION
R	RIGHT
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RECEP	RECEPTACLE
RECEPT	RECEPTIONIST
REF	REFERENCE
REFL	REFLECTED
REFR or REFRIG	REFRIGERATOR
REV	REVISION
REINF	REINFORCED
REQ.'(D)	REQUIRE (MENT) (S) '(D)
RESIL	RESILIENT
RFS	ROOM FINISH SCHEDULE
RGTR	REGISTER
RH	RIGHT HAND
RM	ROOM
R.O.	ROUGH OPENING
RS	REAGENT SHELF or ROUGH SAWN
RWC	RAIN WATER CONDUCTOR
RWL	RAIN WATER LEADER
S	SOUTH
SAB	SOUND ATTENTUATION BLANKET
SB	SMOKE BARRIER or SINK BASE
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN or SOAP DISPENSER
SECT	SECTION
SFRM	SPRAY APPLIED FIRE RESISTIVE MATERIAL
SF GL	SAFETY GLASS
SG	SHEET GLASS
SH	SHELF
SHGC	SOLAR HEAT GAIN COEFFICIENT
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SKL	SKYLIGHT
SL	SLOPE
SND or SNR	SANITARY NAPKIN DISPENSER/RECEPTACLE
SP	SOUND PROOF
SPEC	SPECIFICATION
SPK	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRL	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
TB	TACK BOARD
TEL	TELEPHONE
T&G	TONGUE & GROOVE
THK	THICK
TJ	TOOLED JOINT
TO	TOP OF
TV	TELEVISION
TYP	TYPICAL
UNF	UNFINISHED
UON or UNO	UNLESS OTHERWISE NOTED
UR	URINAL
V#	VACUUM WITH NUMBER OF VALVES INDICATED
VAR	VARNISH
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FABRIC
VIF	VERIFY IN FIELD
VNR	VENEER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
WB	WOOD BASE
WC	WALL CABINET
WD	WOOD
WG	WIRED GLASS
WM	WIRE MESH
W/O	WITHOUT
WP	WATER PROOF
WRB	WEATHER RESISTIVE BARRIER
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XMFR	TRANSFORMER

SIGNAGE LOCATIONS

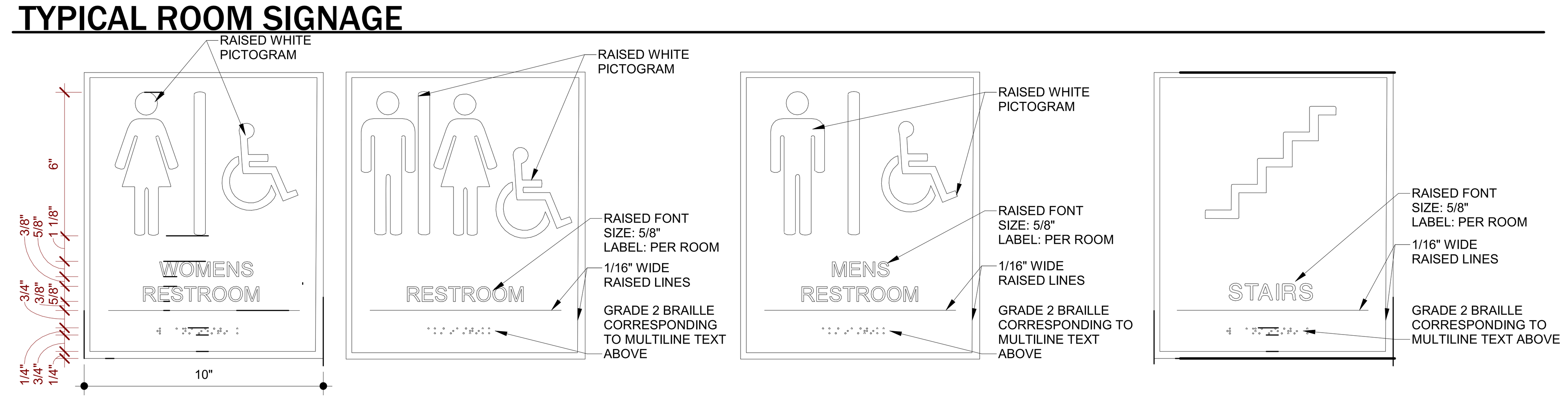


MOUNTING HEIGHTS

NOTE: ALL ITEMS SHALL BE MOUNTED IN ACCORDANCE WITH OBC CHAPTER 11 (CURRENT VERSION)
(CONTRACTOR NOTE: NOT ALL THE FOLLOWING ITEMS ARE USED IN THIS PROJECT - SEE DRAWINGS & SPECS FOR ADDITIONAL DETAILS. ALL DIMENSIONS ARE NOT TO SCALE.)

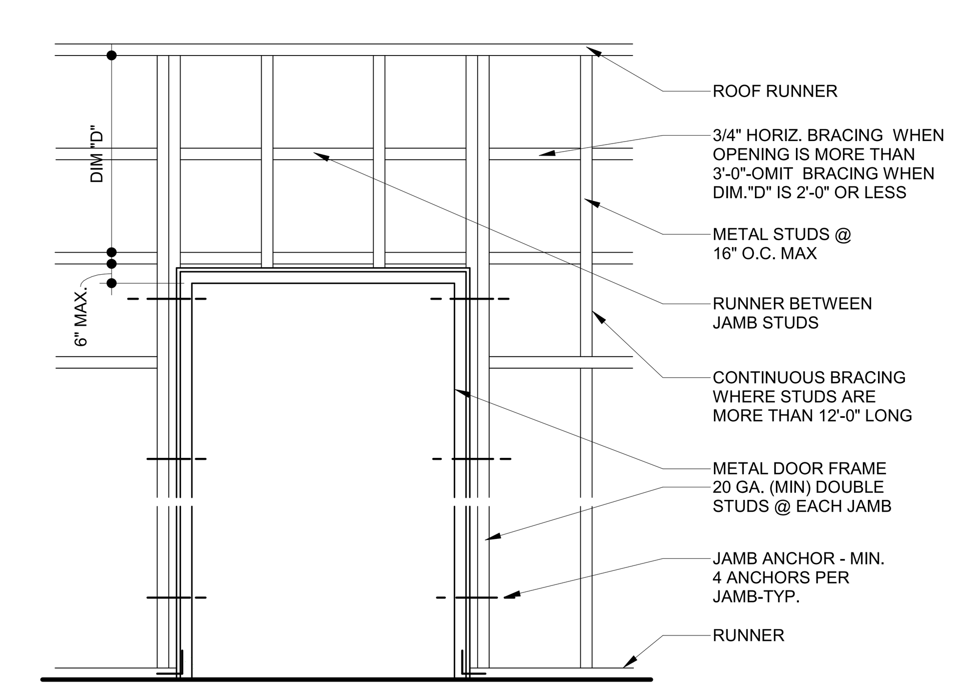


TYPICAL ROOM SIGNAGE



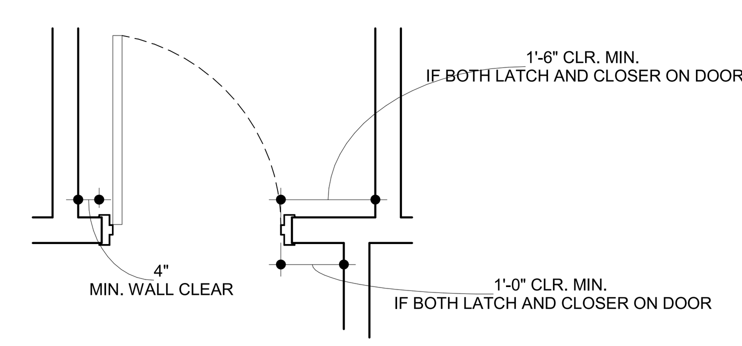
NOTE: DIMENSIONS ARE MINIMUM REQUIRED SPACING AND SIZING OF FONT AND SPACING BETWEEN ELEMENTS

TYPICAL PLAN WALL DETAILS



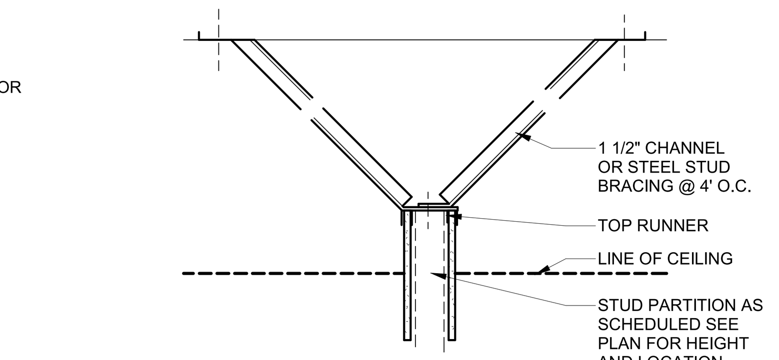
DOOR FRAMING DETAIL

SCALE: N.T.S. — REF. USG GYPSUM CONSTRUCTION HANDBOOK



DOOR LOCATION DETAIL

SCALE: N.T.S.



WALL BRACING DETAIL

SCALE: N.T.S.

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STATE OF OHIO — MARK C. WISEMAN 13215 — REGISTERED ARCHITECT

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Expiration Date 12/31/2025

REVISIONS: Number | Description | Date

PRINTINGS: BID & PERMIT REVIEW DOCUMENTS — 10/03/2025

CONSULTANTS: KLH ENGINEERS

MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

PROJECT NO: 248098.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

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GENERAL NOTES AND SYMBOLS

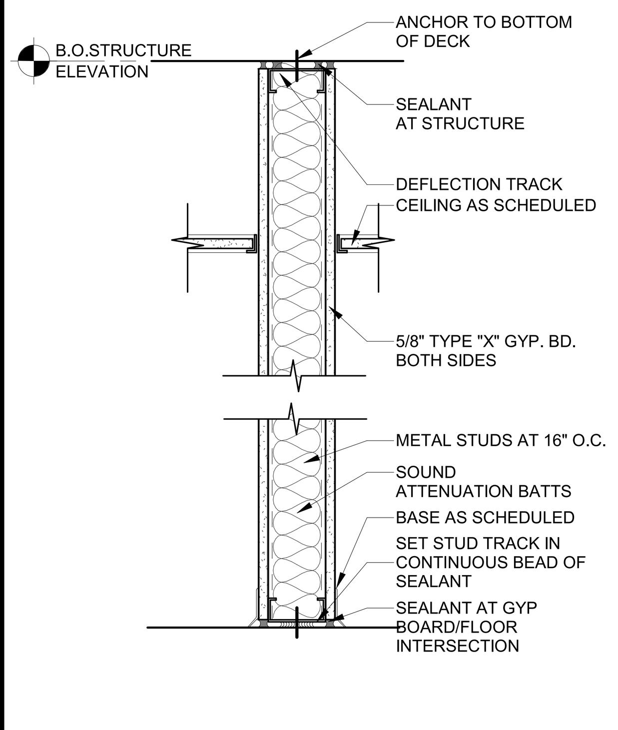
G002

INTERIOR PARTITION TYPES

NOTE: **NOT ALL WALL TYPES WILL BE USED IN THIS PROJECT**

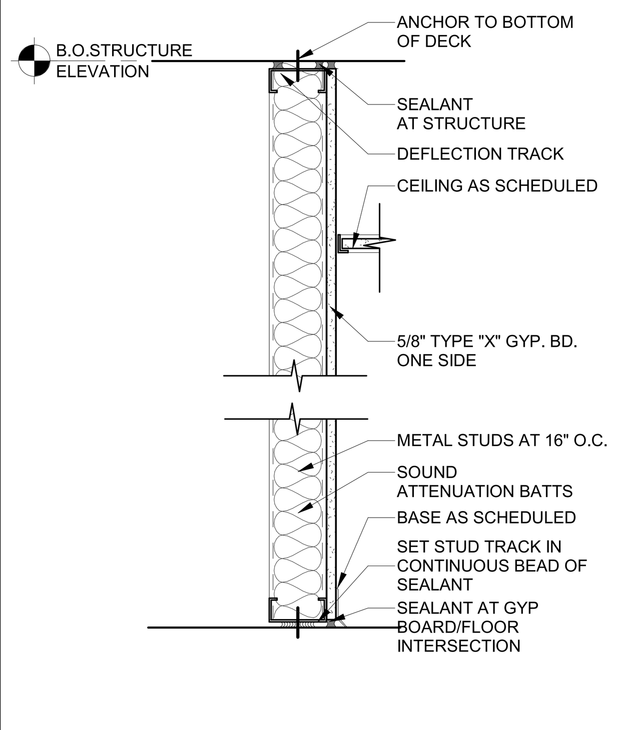
NOTES:

1. SEE LIFE SAFETY DRAWINGS FOR LOCATIONS OF RATED PARTITIONS
2. ALL GYPSUM WALL BOARD TO BE TYPE "X" UNLESS OTHERWISE SPECIFIED
3. PROVIDE TILE BACKERBOARD ON ALL WALL SCHEDULE TO RECEIVE TILE FINISH
4. WALL FINISHES VARY, REFER TO FINISH SCHEDULE, INTERIOR ELEVATIONS, AND DETAILS FOR ALL PARTITIONS
5. MAINTAIN FIRE RATING AND ACOUSTICAL RATING OF PARTITIONS AROUND FIRE EXTINGUISHER CABINETS, ELECTRICAL BOXES, AND OTHER RECESSED ITEMS
6. FIRE-RATED PARTITIONS SHALL HAVE FIRE STOP SEALANTS AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS, AND JUNCTIONS WITH DISSIMILAR MATERIALS
7. NON-RATED PARTITIONS SHALL HAVE SEALANTS AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTURES WITH DISSIMILAR MATERIALS.
8. ALL STUD WALLS CONSTRUCTED TO DECK SHALL HAVE A DEFLECTION TRACK TO ACCOMMODATE MOVEMENT OF THE STRUCTURE. ALL DEFLECTION TRACK SHALL ACCOMMODATE A MINIMUM OF 1" DEFLECTION OF THE STRUCTURE.



A NON-RATED UL: N/A

Z 1HR RATED UL: U419



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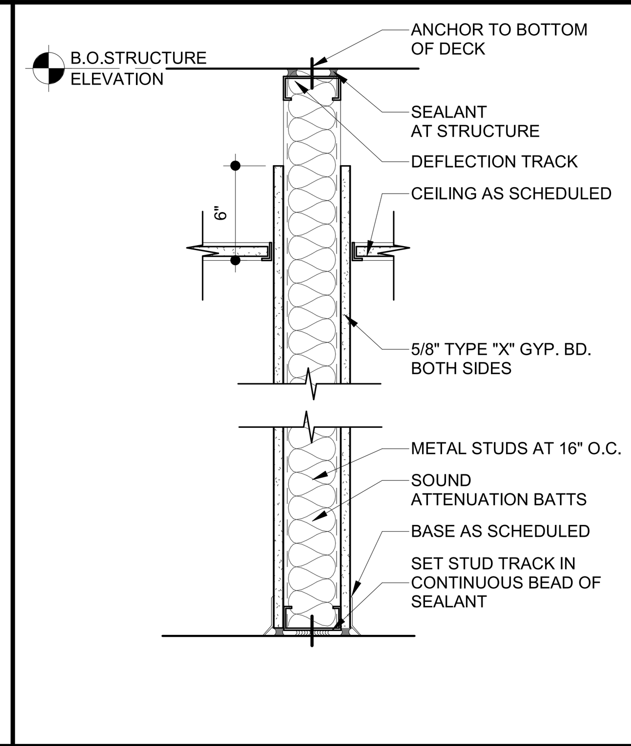

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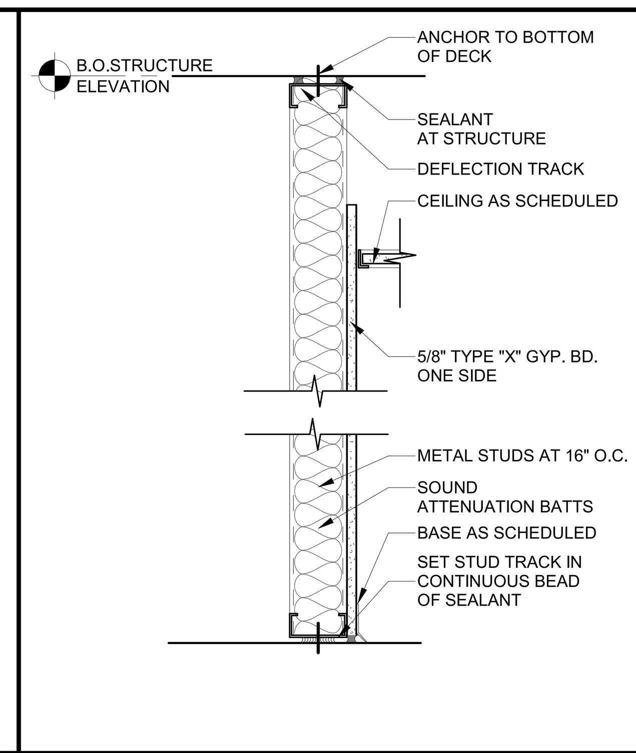

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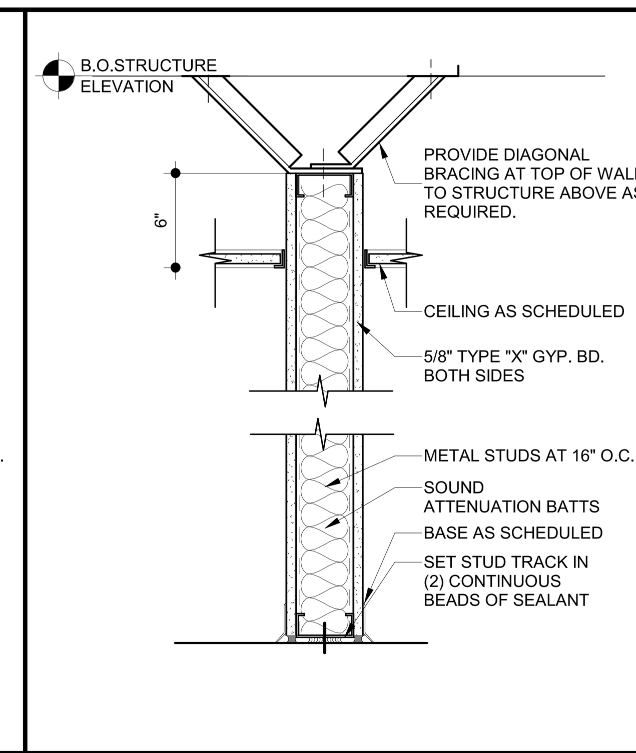

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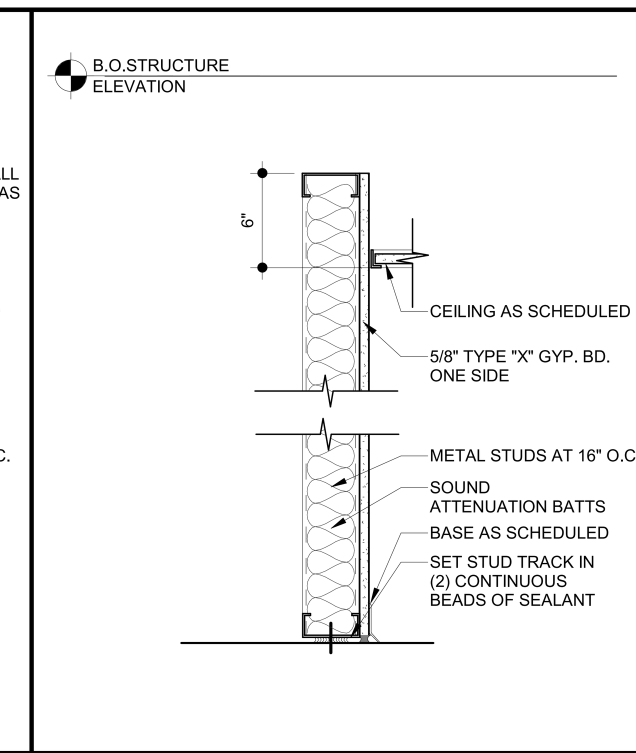

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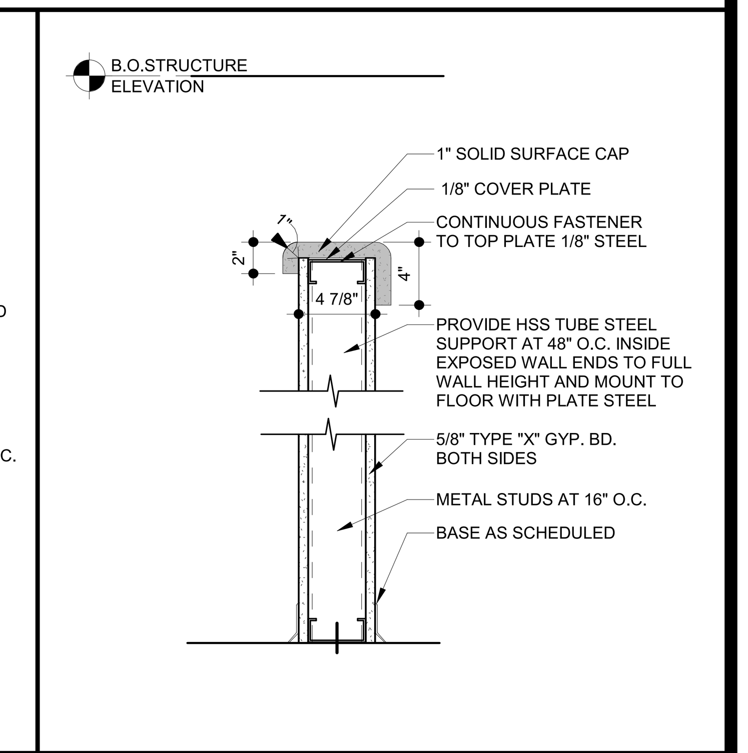


G

STUD SIZE SUFFIX / WIDTH CHART (A / Z)

SUFFIX	STUD SIZE	TOTAL WIDTH	STC
A1 or Z1	3 5/8"	4 7/8"	40 (49 w/ 3" SAB)
A2 or Z2	6"	7 1/4"	
A3 or Z3	8"	9 1/4"	

STUD SIZE SUFFIX / WIDTH CHART (B)

SUFFIX	STUD SIZE	TOTAL WIDTH
B1	3 5/8"	4 1/4"
B2	6"	6 5/8"
B3	8"	8 5/8"

STUD SIZE SUFFIX / WIDTH CHART (C)

SUFFIX	STUD SIZE	TOTAL WIDTH
C1	3 5/8"	4 7/8"
C2	6"	7 1/4"
C3	8"	9 1/4"

STUD SIZE SUFFIX / WIDTH CHART (D)

SUFFIX	STUD SIZE	TOTAL WIDTH
D1	3 5/8"	4 1/4"
D2	6"	6 5/8"
D3	8"	8 5/8"

STUD SIZE SUFFIX / WIDTH CHART (E)

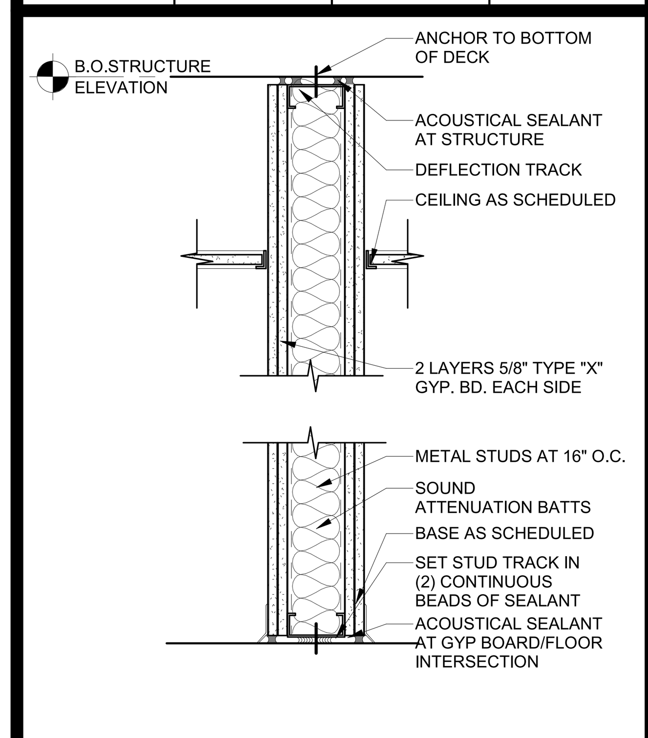
SUFFIX	STUD SIZE	TOTAL WIDTH
E1	3 5/8"	4 7/8"
E2	6"	7 1/4"
E3	8"	9 1/4"

STUD SIZE SUFFIX / WIDTH CHART (F)

SUFFIX	STUD SIZE	TOTAL WIDTH
F1	7/8"	1 1/2"
F2	2 1/2"	3 1/8"
F3	3 5/8"	4 1/4"
F4	6"	6 5/8"

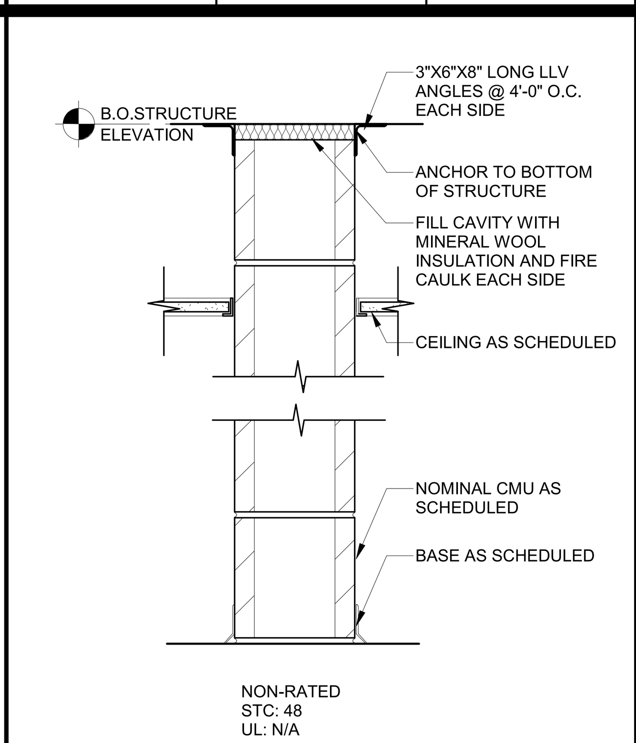
STUD SIZE SUFFIX / WIDTH CHART (G)

SUFFIX	STUD SIZE	TOTAL WIDTH
G1	3 5/8"	4 7/8"
G2	6"	6 5/8"
G3	8"	8 5/8"

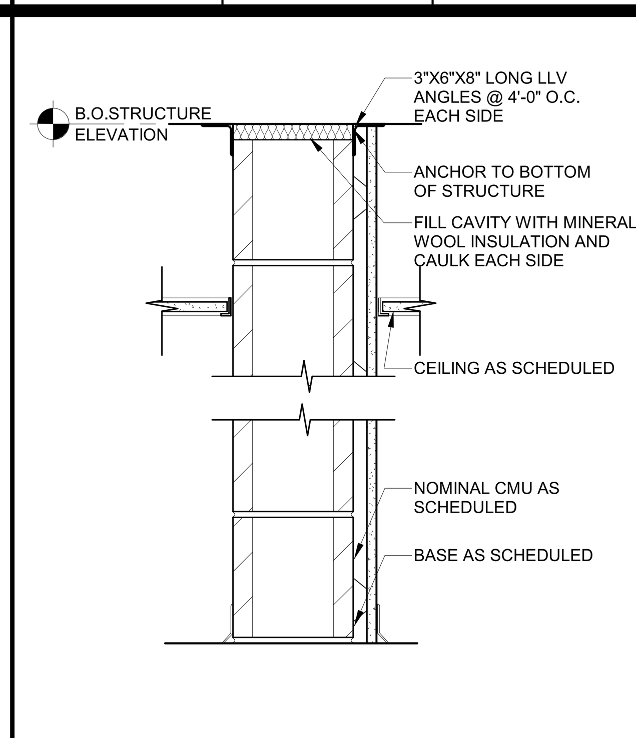


H NON-RATED UL: N/A

Y 2-HOUR RATED UL: U419

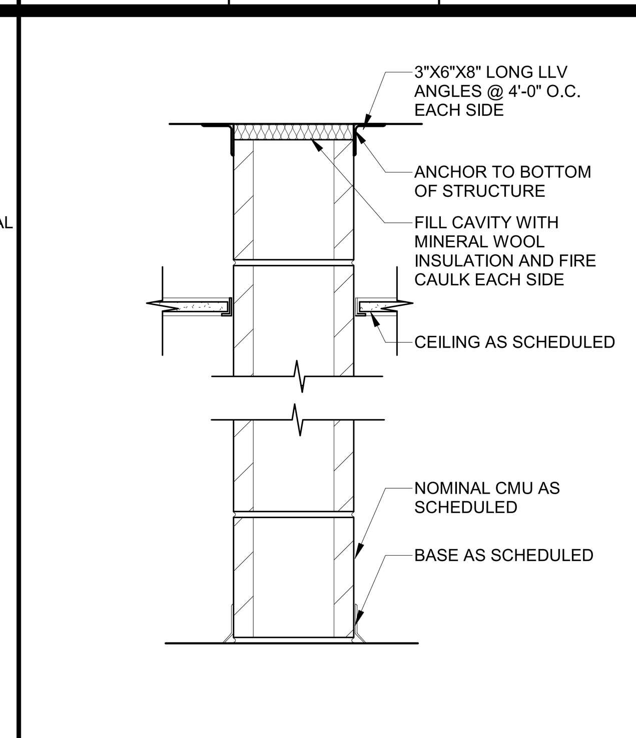


J



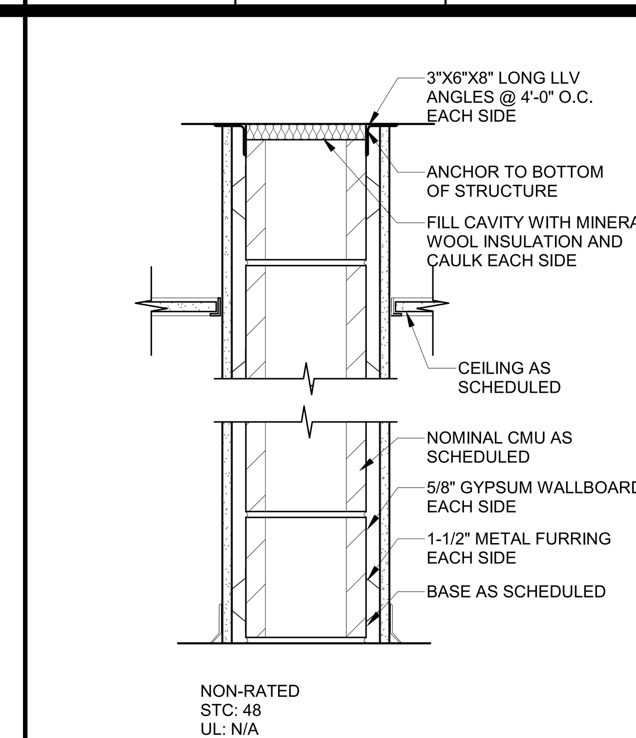
K NON-RATED STC: 52 (54 WITH 2.5" SAB) UL: N/A

X 1-HOUR RATED STC: 48 OBC Table 722.3.2



W 1-HOUR RATED STC: 48 OBC Table 722.3.2

V 2-HOUR RATED STC: 40 (49 WITH 3" SAB) OBC Table 722.3.2



M NON-RATED STC: 52 (54 WITH 2.5" SAB) UL: N/A

U 1-HOUR RATED STC: 48 OBC Table 722.3.2

STUD SIZE SUFFIX / WIDTH CHART (H / Y)

SUFFIX	STUD SIZE	TOTAL WIDTH	STC
H1 OR Y1	3 5/8"	6 1/8"	54
H2 OR Y2	6"	8 1/2"	58

CMU SIZE (J)

SUFFIX	CMU WIDTH
J1	5 5/8"
J2	7 5/8"
J3	11 5/8"

CMU SIZE SUFFIX / WIDTH CHART (K / X)

SUFFIX	CMU WIDTH	TOTAL WIDTH
K1/X1	5 5/8"	7 1/8"
K2/X2	7 5/8"	9 1/8"

CMU SIZE SUFFIX / WIDTH CHART (W / V)

SUFFIX	CMU WIDTH	TOTAL WIDTH
W1/V1	5 5/8"	5 5/8"
W2/V2	7 5/8"	7 5/8"

CMU SIZE SUFFIX / WIDTH CHART (M / U)

SUFFIX	CMU WIDTH	TOTAL WIDTH
M1/U1	5 5/8"	9 7/8"
M2/U2	7 5/8"	11 7/8"
M3/U3	11 5/8"	13 7/8"

STATE OF OHIO MARK C. WISEMAN 13215 REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS : Number | Description | Date

PRINTINGS : BID & PERMIT REVIEW DOCUMENTS 10/03/2025

CONSULTANTS KLH ENGINEERS

MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

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Levin Porter Associates Inc. dba Levin Porter Architects

WALL TYPES

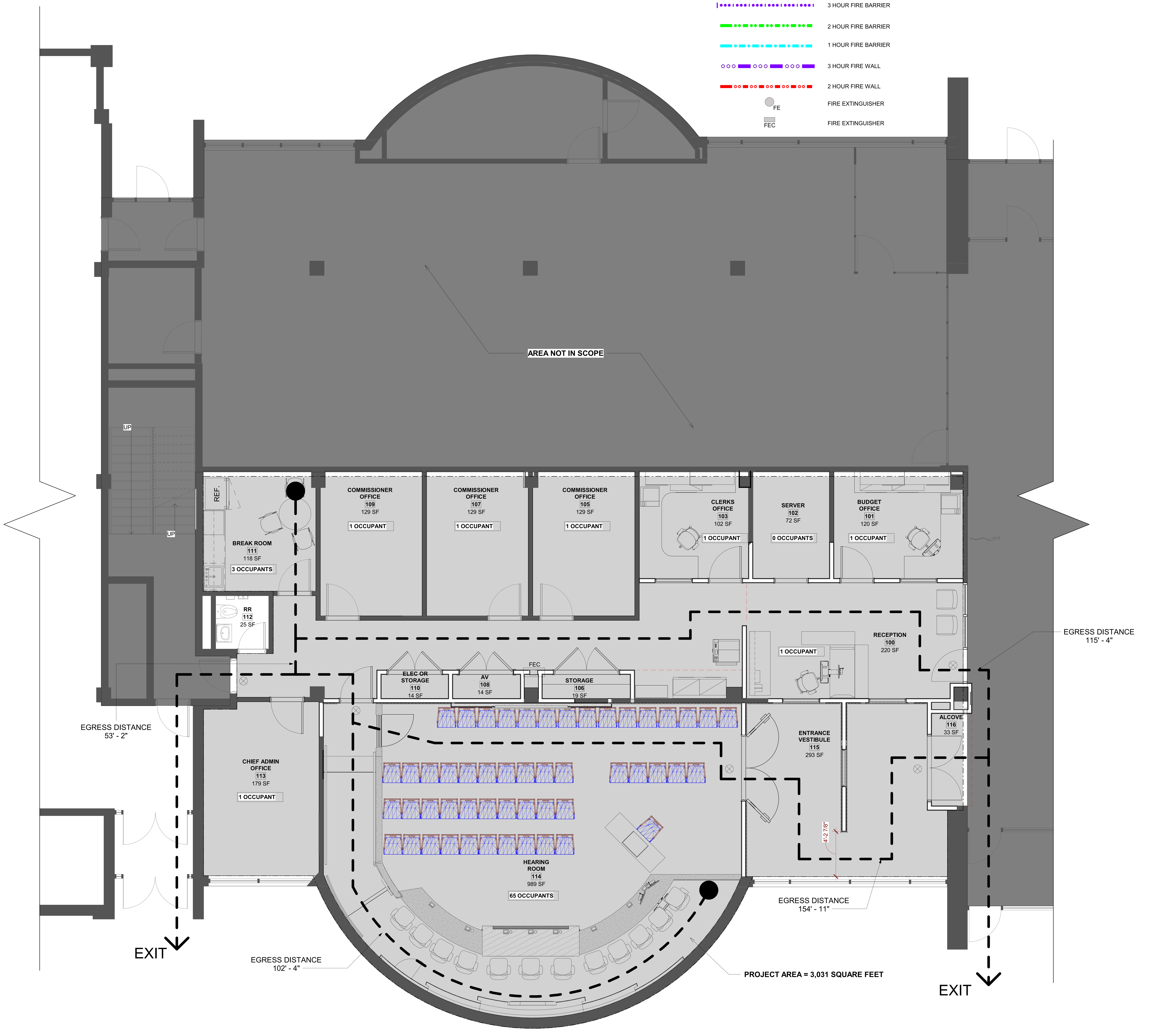
G003

12/23/2025 10:18:58 AM

LIFE SAFETY LEGEND
SCALE | 1/8" = 1'-0"

FIRE RATING SYMBOLS:

- EXIT SIGN / DIRECTION
- 0HR SMOKE PARTITION
- 1 HOUR SMOKE BARRIER
- 1 HOUR FIRE PARTITION
- 3 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER
- 1 HOUR FIRE BARRIER
- 3 HOUR FIRE WALL
- 2 HOUR FIRE WALL
- FE — FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER



26 LIFE SAFETY PLAN
SCALE | 1/4" = 1'-0"

CODE NOTES
2024 EXISTING OHIO BUILDING CODE (WITH UPDATES)

PROJECT SCOPE:
RENOVATE THE EXISTING ADMINISTRATIVE OFFICE AREA AND COMMISSIONER'S HEARING ROOM TO UPDATE FINISHES AND MODIFY THE LAYOUT TO BETTER ACCOMMODATE CURRENT NEEDS. LIMITED MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY UPDATES ARE INCLUDED. NO CHANGES TO THE BUILDING ENVELOPE OR STRUCTURE ARE INCLUDED IN THE PROJECT SCOPE.

BUILDING OVERALL OCCUPANCY: B-BUSINESS (OBC SECTION 304.1) **(NO CHANGE)**
EXISTING BUILDING AREA = **(NO CHANGE)**

THIS PROJECT'S RENOVATION AREA = APPROXIMATELY 3,031 SF **(NO CHANGE)**
OCCUPANT LOAD = **(NO CHANGE)**
CONSTRUCTION TYPE: IB
* ALL NEW CONSTRUCTION SHALL BE NON-COMBUSTIBLE. EXISTING CONSTRUCTION SHALL REMAIN AS-IS.

COMPLIANCE VIA 301.3.1 PRESCRIPTIVE COMPLIANCE METHOD

CHAPTER 3 - PROVISIONS FOR ALL COMPLIANCE METHODS
Section 302 General Provisions

302.3 - Existing materials in place and in compliance with requirements or approvals in effect at the time of their installation may remain in use.

302.4 - New or replacement materials shall be compliant with the requirements for new construction.

302.4.1 New structural members and connections shall comply with the detailing provisions of the building code for new construction.

302.5 The Occupancy and Use of the building shall be in accordance with Chapter 3 of the 2024 Ohio Building Code (OBC).

302.6 Used materials and products may be permitted if approved by the building official.

302.7 The fire resistance of existing assemblies and materials, where no data on the fire resistance of the assembly exists, shall be determined by using Section 721 of the OBC or Resource A, Guidelines on Fire Ratings of Archaic Materials and Assemblies as published in the OEBC.

Section 303 Storm Shelters
303.1 Not Applicable. A storm shelter is not part of the Project Scope.

Section 304 Structural Design Loads and the Evaluation and Design Procedures
304.1 Live loads: Where a live load, as part of an alteration or addition, does not increase the design live load, the existing structural elements may be evaluated and designed for live approved prior to the addition or alteration. Increased live loads shall be compliant with Section 1607 of the OBC.

Section 306 Accessibility for Existing Buildings
306.1 These provisions are applicable to the maintenance, repair, change of occupancy, addition and alteration of existing buildings, including historic buildings.

306.2 The design and construction of buildings and facility components associated with accessibility shall comply with the OBC and ICC A117.1

306.3 A facility undergoing alterations to be accessible shall be maintained accessible during occupancy, including required accessible means of egress.

306.4 An alteration shall not impose a higher degree of accessibility than what would be required in new construction.

306.5 A Change of Occupancy is Not Applicable as this Project is NOT changing occupancies.

306.6 Additions. Not Applicable to this Project.

306.7 Alterations to an existing building shall comply with the provisions of Chapter 11 of the OBC, ICC A117.1 and provisions of Sections 306.7.1 thru 306.7.16 unless technically infeasible. Where technically infeasible, the alteration shall provide access to the maximum extent possible.

306.7.1 Alterations do not reduce the accessibility of Primary Function areas. A restroom supporting the administrative area lies on an accessible path but is not itself accessible. See 306.7.1.1 below.

306.7.1.1 The existing single user restroom is not accessible, lacking the physical space to provide the necessary maneuvering clearances. Existing group restrooms, one for each gender, are available within 200', are accessible and lie on an accessible route.

306.7.2 Accessible means of egress, as outlined in Chapter 10 of the OBC, are not required to be added in existing facilities.

306.7.3 Alteration of Type A Units. Not Applicable to this Project.

306.7.4 Alteration of Type B Units. Not Applicable to this Project.

306.7.5 The main entrances to the Administrative Area and Hearing Room shall be altered to be accessible.

306.7.6 Existing, exterior accessible routes are a minimum of 36" in width. Refer to the Construction Drawings.

306.7.7 Elevators. Not Applicable to this Project.

306.7.8 Platform Lifts. Not Applicable to this Project.

306.7.9 Stairways and Escalators. Not Applicable to this Project.

306.7.10 Accessible Type A or Type B Units. Not Applicable to this Project.

306.7.11 The required ICC A117.1 signage, directing someone to accessible restrooms, shall be provided at the existing single-user restroom, as required by this Section.

306.7.12 Bathing rooms. Not Applicable to this Project.

306.7.13 Additional Toilet and Bathing facilities. Not Applicable to this Project as the scope does include the addition of restroom fixtures to existing restrooms.

306.7.14 Dressing, Fitting & Locker Rooms. Not Applicable to this Project.

306.7.15 Amusement rides. Not Applicable to this Project.

306.7.16 Historic structures. Not Applicable to this Project.

Section 307 Smoke Alarms
307.1 Not Applicable to this Project as sleeping rooms nor spaces in the vicinity of sleeping rooms are part of this Project.

Section 308 Carbon Monoxide Detection
308.1 Not Applicable to the Project. The work does not alter occupancies in Group I-1, I-2,I-4 and R Occupancies. Group E Occupancies are also not impacted.

Section 309 Additions and Replacements of Exterior Wall Coverings and Exterior Wall Envelopes
309.1 Requirements of this Section are required regardless of Compliance Method.

309.2 Additions and Replacements. Not Applicable to the Project as the scope does not involve the alteration of exterior building claddings.

CHAPTER 5 – PRESCRIPTIVE COMPLIANCE METHOD
Section 501 General
501.1 Provisions of this chapter are applicable to alterations, additions and changes of occupancy of existing buildings and structures, including historic.

Section 502 Additions
502.1 Not Applicable. This Project does not involve the construction of an addition.

Section 503 Alterations
503.1 Alterations to the building, structure or system must be compliant with the requirements of new construction. This requirements applies only to the alterations. Unaltered portions of the building or systems are not required to comply with the requirements for new construction.

503.2 Flood Hazard Areas. Not Applicable to this Project. The site is outside of a flood hazard area.

503.3 Existing Structural Elements carrying a gravity load. Not Applicable to this Project. There are no planned alterations to the building that increase design dead, live or snow loads.

503.4 Existing Structural Elements carrying a lateral load. Not Applicable to this Project. There are no planned alterations to the lateral loads resulting in a prohibited structural irregularity as defined by ASCE 7 or decreases the capacity of an existing lateral load carrying member.

503.5 Seismic Design Category F. Not Applicable to this Project as the building does not fall into that category.

503.6 Bracing for unreinforced masonry parapets. Not Applicable to this Project as the alteration scope does not include reroofing more than 25% of the roof area of a building in Seismic Category D, E or F.

503.7 Anchorage for concrete and reinforced masonry walls. Not Applicable as the work area is <50% of the building area.

503.8 Anchorage for unreinforced masonry walls in a major alteration. Not Applicable as the work area is <50% of the building area.

503.9 Bracing for unreinforced masonry parapets in a major alteration. Not Applicable as the work area is <50% of the building area.

503.10 Anchorage of unreinforced masonry partitions in a major alteration. Not Applicable as the work area is <50% of the building area.

503.11 Substantial structural alteration. Not Applicable to the Project as a substantial structural alteration is not part of the project scope.

503.12 Roof diaphragms resisting wind loads in high wind areas is Not Applicable to the Project as reroofing the building is not included in the Scope.

503.13 Voluntary lateral force resisting system alterations are NOT included as part of the Project scope.

503.14 Smoke Compartments. Not Applicable as the Project does not involve an I-2 Occupancy.

503.15 Refuge areas. Not Applicable as the Project does not include alterations to a refuge area.

503.16 Enhanced classroom acoustics. Not Applicable to this Project as this building does not contain a Group E occupancy.

503.17 Locking arrangements in educational occupancies. Not Applicable to this Project as it does not involve an Educational use.

503.18 Two-way communication systems. Not Applicable to this Project as an elevator is not present in the building.

503.19 Storm shelters. Not Applicable to this Project as it does not involve alterations to a 911 call station, emergency operations center, fire station, police station or emergency medical facility.

Section 504 Fire Escapes
504.1 Not Applicable. This Project does not involve fire escapes.

Section 505 Windows and Emergency Escape Openings
505.1 Not Applicable. This Project does not involve the replacement of windows.

Section 506 Change of Occupancy
506.1 Not Applicable. This Project does not involve a change of occupancy.

Section 507 Historic Buildings
507.1 Not Applicable. This Project does not involve the a historic building.

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS :

Number	Description	Date

PRINTINGS :

BID & PERMIT REVIEW DOCUMENTS	10/03/2025

CONSULTANTS
KLH ENGINEERS

MIAMI COUNTY
COMMISSIONER'S HEARING ROOM RENOVATION

PROJECT NO: **248698.00**
CHECKED BY: **Checker**
DRAWN BY: **Author**
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Levin Porter Associates Inc. dba Levin Porter Architects

LIFE SAFETY PLAN
G004

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GENERAL NOTES - DEMOLITION

A. PROTECT EXISTING STRUCTURE, ADJACENT WINDOWS, DOORS AND OTHER BUILDING ELEMENT DURING DEMOLITION.

B. CONTRACTOR TO MAINTAIN ACCESS TO EXITS DURING DEMOLITION AND CONSTRUCTION.

C. INSTALL AND ADJUST DUST BARRIERS AND WALK OFF MATS AT ALL DOORWAYS ADJACENT TO MAIN CORRIDOR. COORDINATE THE LOCATION OF ALL TEMPORARY CONSTRUCTION BARRIERS OWNER, ARCHITECT AND / OR CONSTRUCTION MANAGER. ASSUME THAT ALL CONSTRUCTION AREAS WILL REQUIRE A BARRIER BETWEEN CONSTRUCTION AND OCCUPIED SPACES. CONTRACTOR RESPONSIBLE FOR MAINTAINING PROPER EXISTS AND APPROVAL BY AUTHORITIES HAVING JURISDICTION FOR THESE BARRIERS.

D. REMOVE EXISTING PARTITIONS SHOWN W/ DASHED LINES. PROVIDE NEW FINISHES AS SCHEDULED AT ALL AREAS OF REMOVAL AND REPAIRS. WALL, CEILING AND FLOOR FINISHES TO MATCH ADJACENT SURFACES.

E. REMOVE ALL EXISTING DOORS AND HOLLOW METAL FRAME WHERE INDICATED WITH DASHED LINES.

F. ALL EXISTING FIRE EXTINGUISHERS TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

G. CONTRACTOR TO PROVIDE DURABLE TEMPORARY DIRECTION SIGNS TO EXITS AND OPERABLE RESTROOMS DURING CONSTRUCTION PERIOD.

H. PATCH/REPAIR SURFACES AS REQUIRED FOR NEW FINISH AS SCHEDULED, INCLUDING AREAS THAT WERE PREVIOUSLY OUT OF VIEW THAT ARE EXPOSED BY THIS PROJECT. MATCH EXISTING FINISHES U.N.O. THIS INCLUDES WORK BY ALL TRADES.

I. REMOVE ALL ROOM SIGNS RELATED TO THE AREA BEING RENOVATED. PREPARE FOR NEW SIGN INSTALLATION. COORDINATE FINAL LOCATIONS AND BLOCKING REQUIREMENTS WITH THE OWNER, ARCHITECT AND / OR CONSTRUCTION MANAGER.

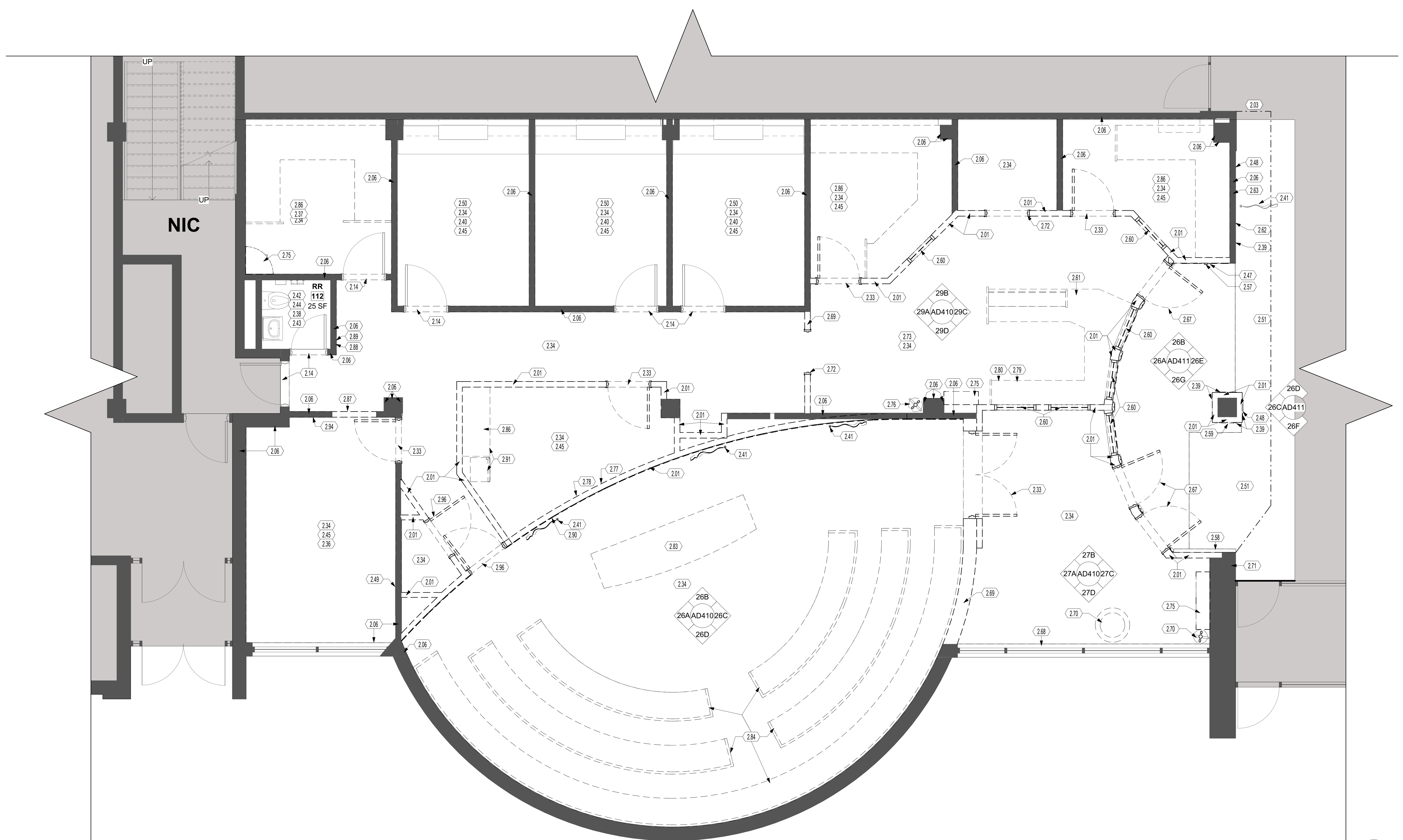
J. DURING DEMOLITION AND CONSTRUCTION, LOCATE AND MAINTAIN SMOKE DETECTION DEVICES, FIRE ALARM DEVICES, FIRE EXTINGUISHERS, ILLUMINATION AND LIFE SAFETY SYSTEMS AS WOULD OTHERWISE BE REQUIRED IN AN OCCUPIED SPACE. PROTECT DETECTION DEVICES FROM ACCIDENTAL ACTIVATION DURING CONSTRUCTION BY GLOVE BAG OR OTHER APPROVED METHOD. REMOVE PROTECTION AT THE END OF WORK DAY OR SHIFT IF CONSTRUCTION AREA IS LEFT UNOCCUPIED.

K. COORDINATE SPECIFIC EGRESS REQUIREMENTS WITH THE OWNERS REPRESENTATIVE AND THE FIRE OFFICIALS PRIOR TO COMMENCING WORK.

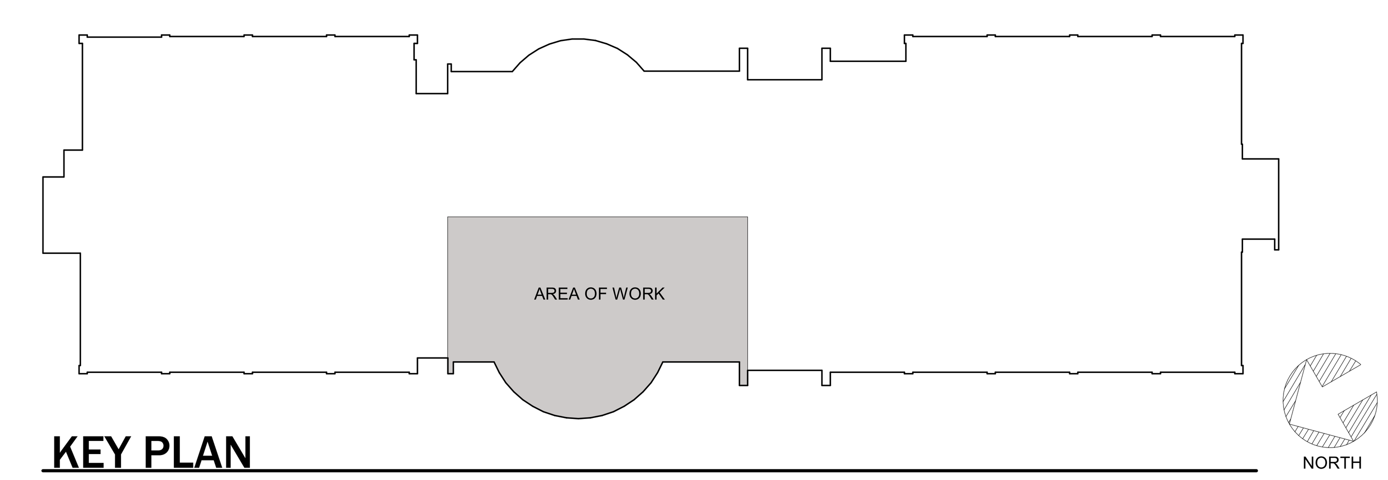
L. COORDINATE TURN OVER OF ALL SALVAGED ITEMS WITH OWNER.

##.## KEYNOTES

2.01 DEMOLISH WALL/PARTITION IN ITS ENTIRETY.
2.03 PROVIDE TEMPORARY CONSTRUCTION BARRIER. MAINTAIN ACCESS TO BUILDING EXITS.
2.06 EXISTING WALL TO REMAIN, PREPARE SURFACE FOR NEW FINISH AS SCHEDULED.
2.14 EXISTING DOOR, FRAME AND HARDWARE TO REMAIN.
2.33 REMOVE AND SALVAGE EXISTING DOOR, HARDWARE, AND FRAME.
2.34 REMOVE EXISTING CARPET TILE FLOORING AND PREP FOR NEW FINISH.
2.36 REMOVE AND SALVAGE EXISTING OFFICE CASEWORK FOR REINSTALLATION.
2.37 REMOVE AND SALVAGE EXISTING OFFICE CASEWORK.
2.38 EXISTING FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION.
2.39 DEMOLISH EXISTING WAINSCOT PANELS.
2.40 EXISTING WOOD BASE, RAIL, AND CROWN MOLDING TO REMAIN. PROTECT DURING CONSTRUCTION.
2.41 REMOVE AND SALVAGE EXISTING FLAG.
2.42 EXISTING TOILET ACCESSORIES TO REMAIN.
2.43 EXISTING SINK TO REMAIN.
2.44 EXISTING TOILET TO REMAIN.
2.45 REMOVE AND SALVAGE EXISTING FURNITURE DURING CONSTRUCTION.
2.47 REMOVE AND SALVAGE EXISTING OHIO STATE FLAG.
2.48 REMOVE AND SALVAGE EXISTING PLAQUE.
2.49 EXISTING TACKBOARD, REMOVE AND SALVAGE FOR REINSTALLATION.
2.50 EXISTING OFFICE CASEWORK TO REMAIN. PROTECT DURING CONSTRUCTION.
2.51 EXISTING FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION.
2.57 REMOVE AND SALVAGE EXISTING CARD READER FOR REINSTALLATION.
2.58 REMOVE AND SALVAGE EXISTING MESSAGE BOARD.
2.59 REMOVE AND SALVAGE EXISTING CERTIFICATE.
2.60 DEMOLISH EXISTING WINDOW.
2.61 DEMOLISH EXISTING RECEPTION DESK.
2.62 REMOVE AND SALVAGE MIAMI COUNTY COMMISSIONERS PLAQUE.
2.63 REMOVE AND SALVAGE MIAMI COUNTY SEAL PLAQUE.
2.67 DEMOLISH EXISTING DOOR, SALVAGE HARDWARE.
2.68 EXISTING WALL AND WINDOWS TO REMAIN.
2.69 DEMOLISH PORTION OF EXISTING WALL, LENGTH SHOWN ON DRAWINGS.
2.70 REMOVE AND SALVAGE EXISTING CASEWORK, FURNITURE, AND BELL STAND.
2.71 EXISTING WALL TO REMAIN.
2.72 REMOVE AND SALVAGE EXISTING WOOD FRAME.
2.73 REMOVE AND SALVAGE EXISTING FURNITURE.
2.75 REMOVE AND SALVAGE EXISTING BOOKCASE.
2.76 REMOVE AND SALVAGE EXISTING COAT STAND.
2.77 REMOVE AND SALVAGE EXISTING ART.
2.78 REMOVE AND SALVAGE EXISTING CLOCK.
2.79 REMOVE AND SALVAGE EXISTING FILE STORAGE.
2.80 REMOVE AND SALVAGE EXISTING PRINTER.
2.83 REMOVE AND SALVAGE EXISTING TABLE.
2.84 REMOVE EXISTING BENCH SEATING.
2.86 DEMOLISH EXISTING CASEWORK.
2.87 REMOVE PORTION OF EXISTING WALL FOR NEW OPENING. COORDINATE WITH OPENING REQUIREMENTS.
2.88 EXISTING EXIT SIGNAGE. PROTECT DURING CONSTRUCTION.
2.89 EXISTING FIRE ALARM PULL STATION. PROTECT DURING CONSTRUCTION.
2.90 REMOVE AND SALVAGE EXISTING FIRE ALARM.
2.91 REMOVE AND SALVAGE EXISTING MINI REFRIGERATOR.
2.94 REMOVE AND SALVAGE EXISTING COUNTY MAP.
2.96 DEMOLISH EXISTING DOOR, FRAME, AND HARDWARE.



26 OVERALL DEMO FLOOR PLAN
SCALE | 1/4" = 1'-0"



KEY PLAN

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STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS :

Number	Description	Date

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CONSULTANTS
KLH ENGINEERS

MIAMI COUNTY
COMMISSIONER'S HEARING ROOM RENOVATION

MIAMI COUNTY COMMISSIONERS OHIO

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

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DEMO PLAN

AD101

GENERAL NOTES - DEMOLITION

A. PROTECT EXISTING STRUCTURE, ADJACENT WINDOWS, DOORS AND OTHER BUILDING ELEMENT DURING DEMOLITION.

B. CONTRACTOR TO MAINTAIN ACCESS TO EXITS DURING DEMOLITION AND CONSTRUCTION.

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F. ALL EXISTING FIRE EXTINGUISHERS TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

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K. COORDINATE SPECIFIC EGRESS REQUIREMENTS WITH THE OWNERS REPRESENTATIVE AND THE FIRE OFFICIALS PRIOR TO COMMENCING WORK.

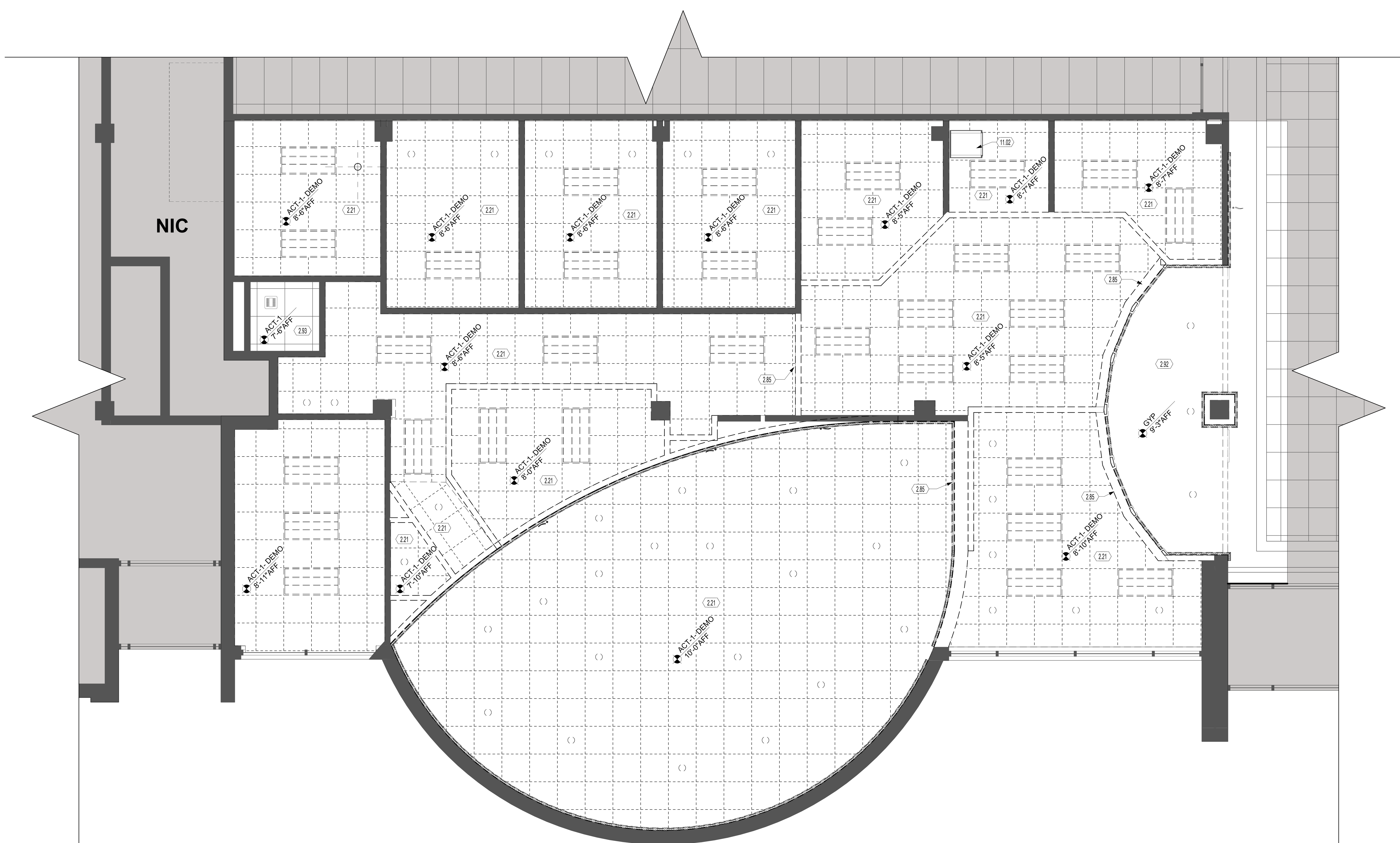
L. COORDINATE TURN OVER OF ALL SALVAGED ITEMS WITH OWNER.

##.## KEYNOTES

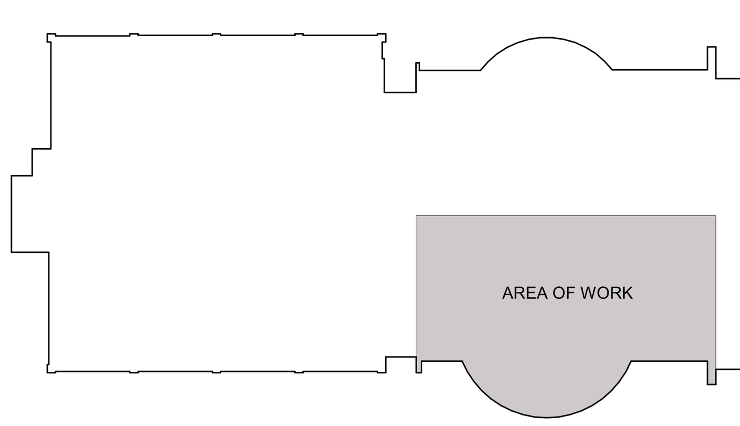
2.21	REMOVE EXISTING ACOUSTICAL CEILING SYSTEM AND ALL MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY SYSTEMS INSTALLED HEREIN. PREP FOR NEW CEILING SYSTEM.
2.85	REMOVE AND SALVAGE EXISTING EXIT SIGNAGE.
2.92	REMOVE EXISTING GYPSUM BOARD CEILING SYSTEM AND ALL MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY SYSTEMS INSTALLED HEREIN. PREP FOR NEW CEILING SYSTEM.
2.93	EXISTING CEILING, LIGHT, AND AIR DEVICE TO REMAIN.
11.02	EXISTING WALL MOUNTED NETWORK RACK TO REMAIN. SEE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR OTHER REQUIREMENTS

DEMO RCP LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- NEW METAL STUD PARTITION
- NEW CMU MASONRY PARTITION
- EXISTING ACT TO BE REMOVED
- EXISTING 2 X 4 LIGHT TO BE REMOVED
- EXISTING RECESSED CAN LIGHT TO BE REMOVED



26 REFLECTED CEILING PLAN
SCALE | 1/4" = 1'-0"



NORTH

KEY PLAN

NORTH

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STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
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CONSULTANTS
KLH ENGINEERS

MIAMI COUNTY
COMMISSIONER'S HEARING ROOM RENOVATION

HOME. GROWN. GREAT. MIAMI COUNTY COMMISSIONERS OHIO

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
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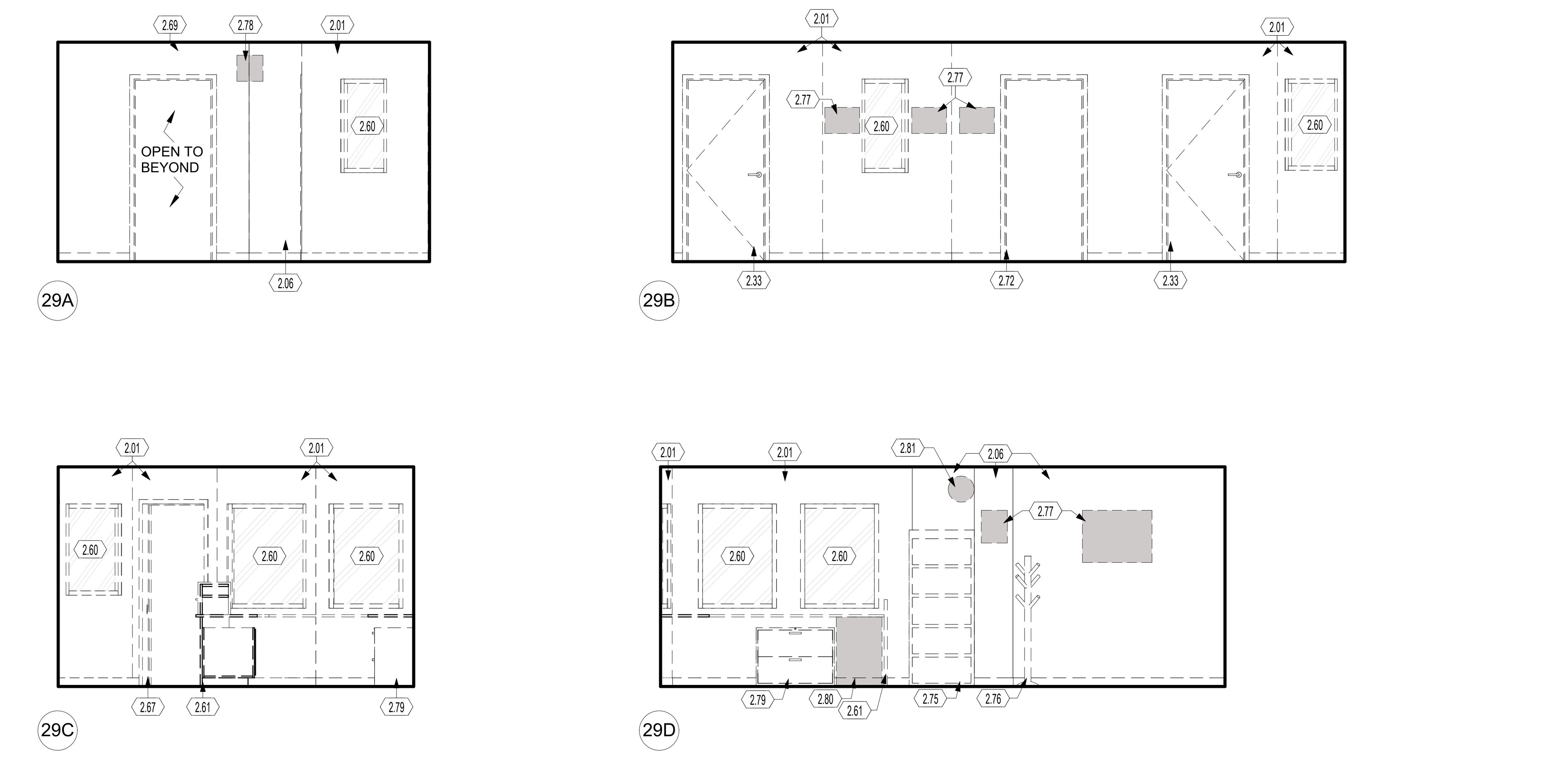
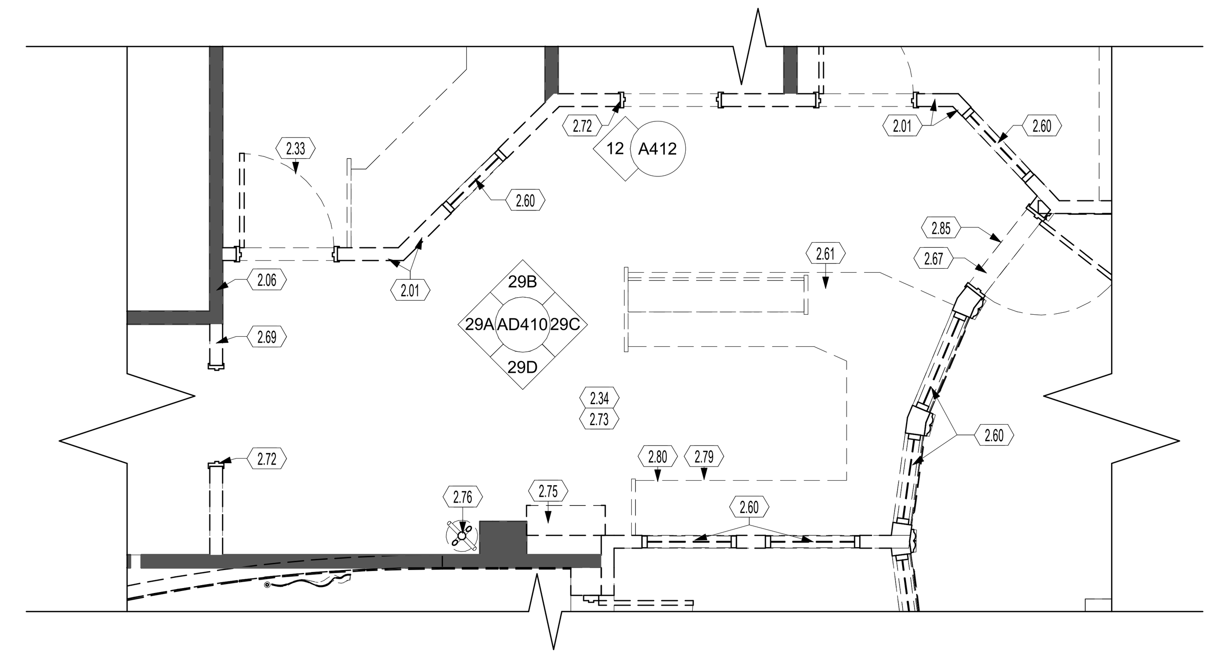
Levin Porter Associates Inc. dba Levin Porter Architects

DEMO CEILING PLAN

AD121

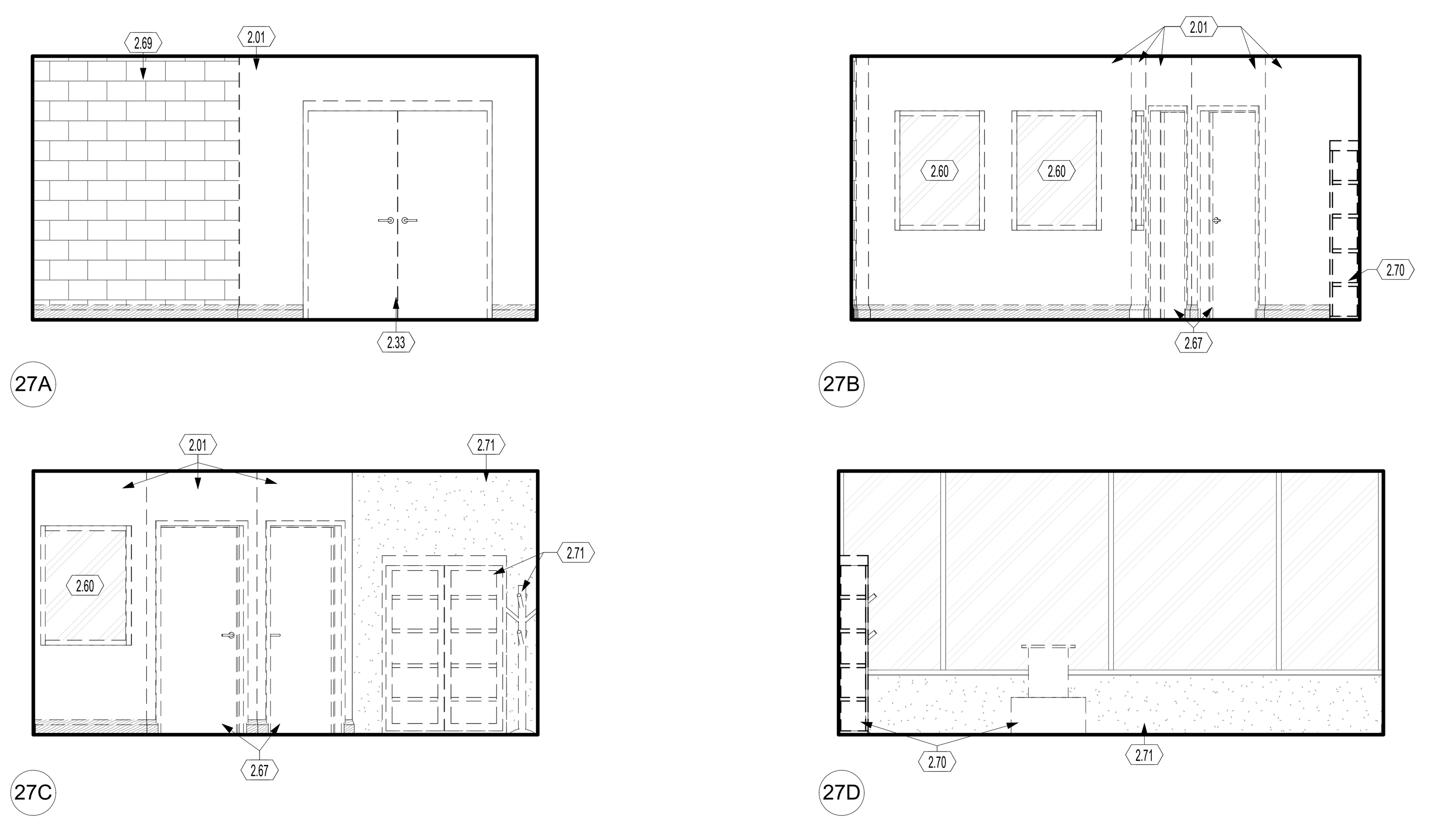


29 RECEPTION DEMO ELEVATIONS
SCALE | 1/4" = 1'-0"

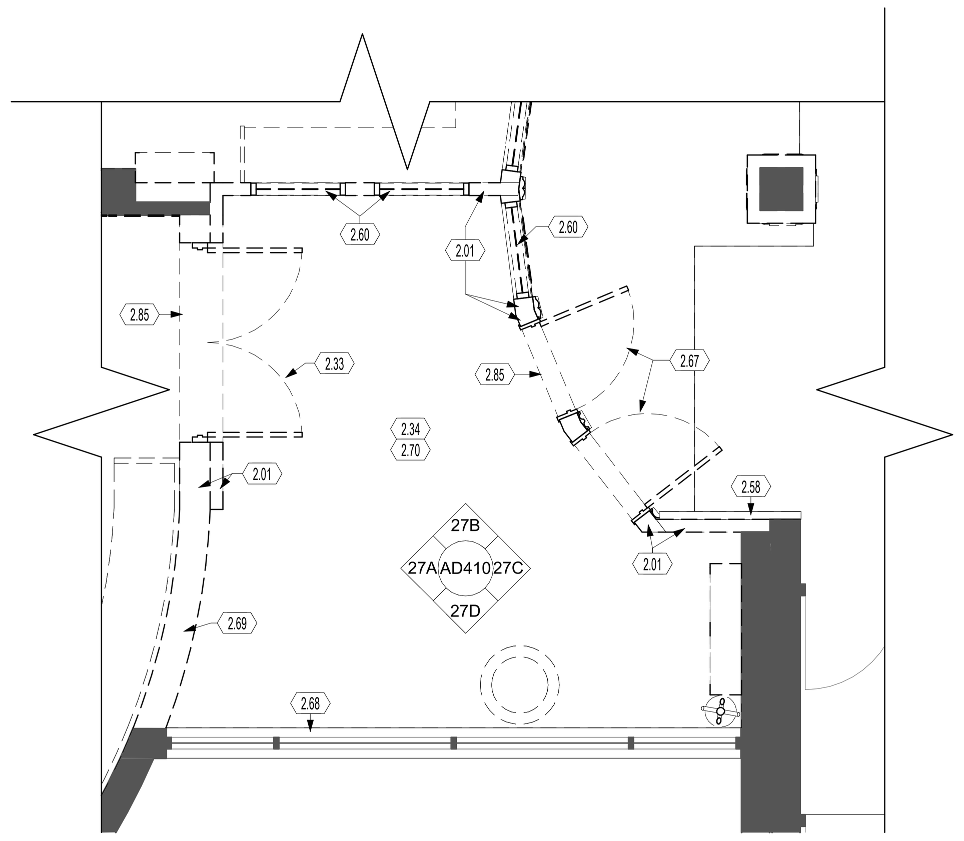


16 RECEPTION ENLARGED DEMO PLAN
SCALE | 1/4" = 1'-0"

NORTH

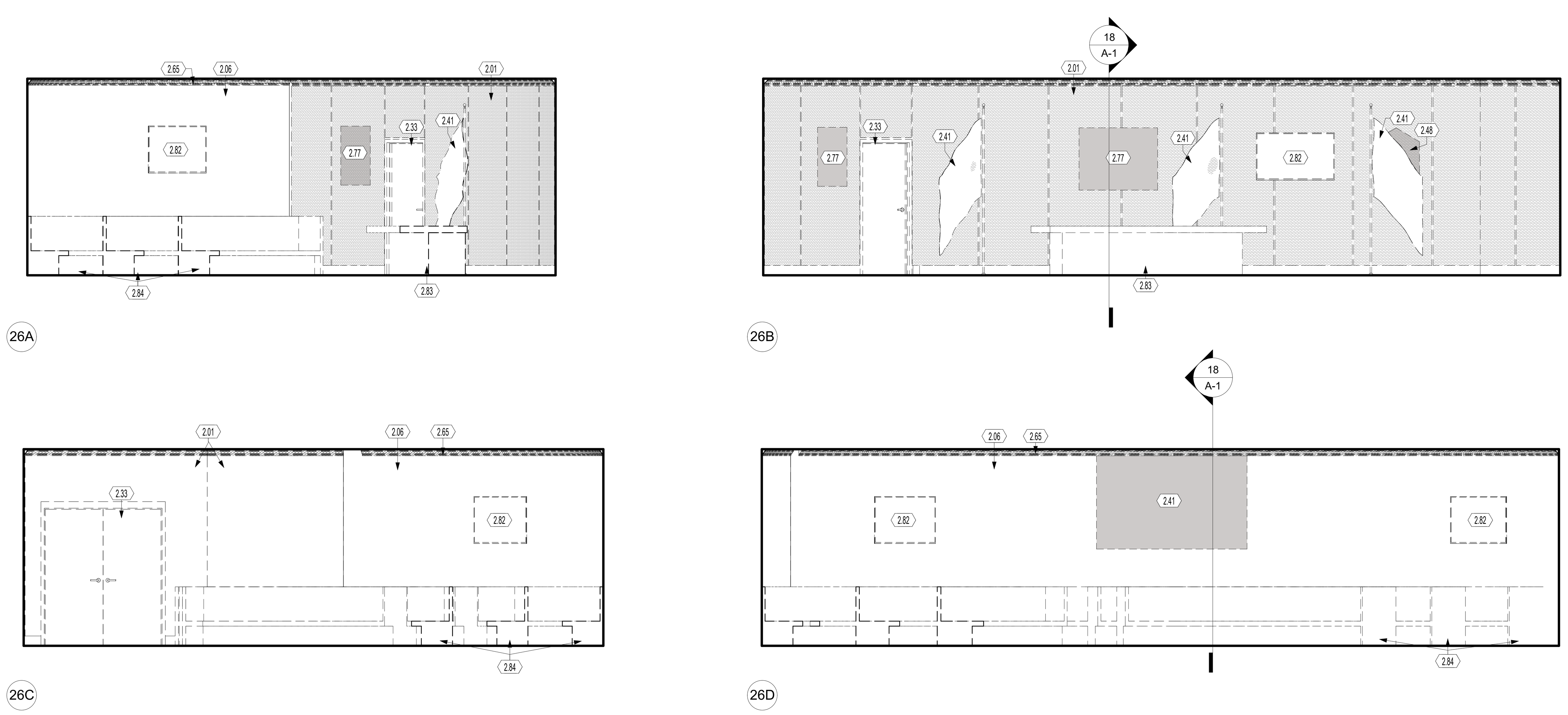


27 VESTIBULE DEMO ELEVATIONS
SCALE | 1/4" = 1'-0"

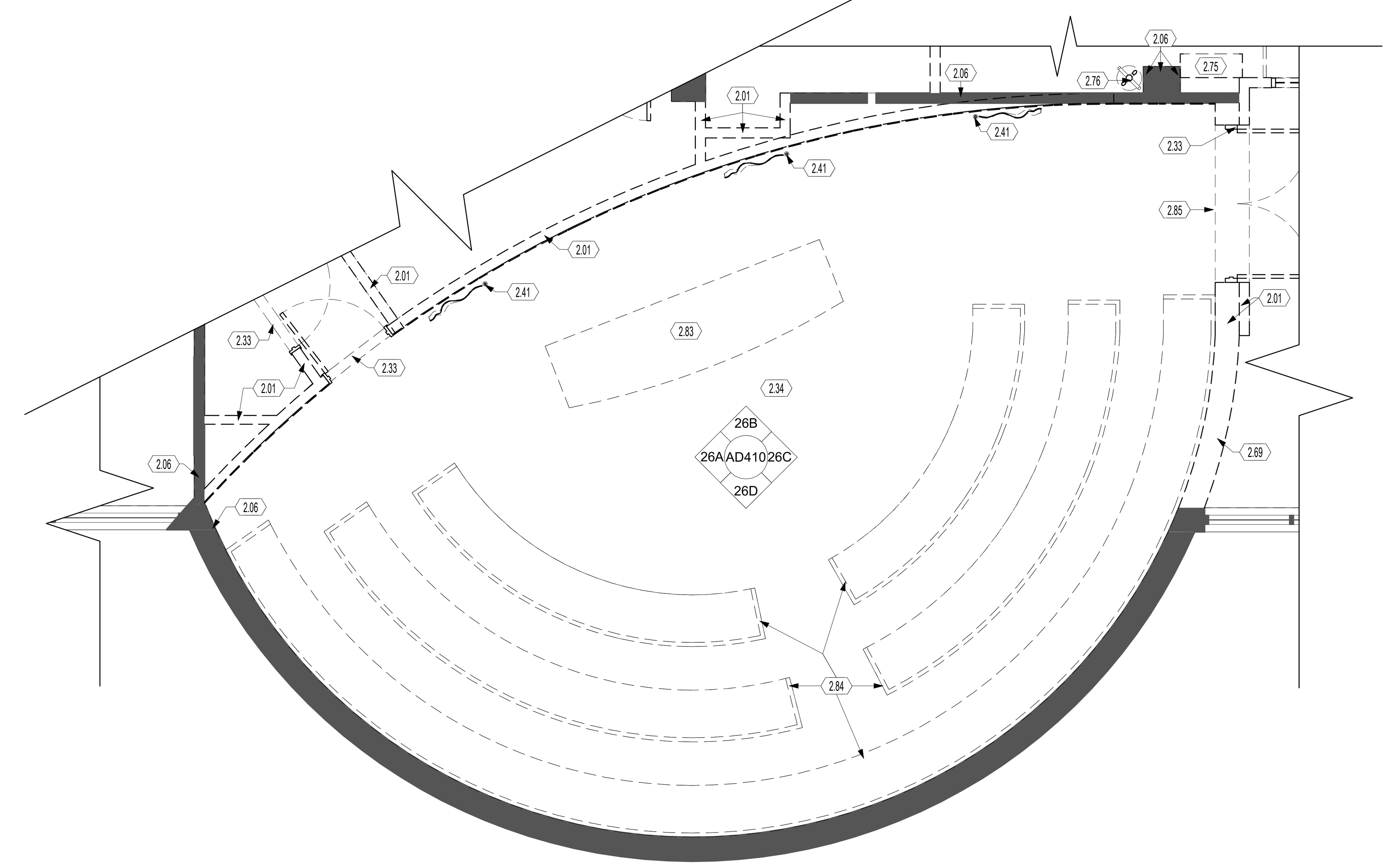


13 ENTRANCE VESTIBULE ENLARGED PLAN
SCALE | 1/4" = 1'-0"

NORTH



26 HEARING ROOM DEMO ELEVATIONS
SCALE | 1/4" = 1'-0"



11 HEARING ROOM ENLARGED DEMO PLAN
SCALE | 1/4" = 1'-0"

NORTH

GENERAL NOTES - DEMOLITION

A. PROTECT EXISTING STRUCTURE, ADJACENT WINDOWS, DOORS AND OTHER BUILDING ELEMENT DURING DEMOLITION.

B. CONTRACTOR TO MAINTAIN ACCESS TO EXITS DURING DEMOLITION AND CONSTRUCTION.

C. INSTALL AND ADJUST DUST BARRIERS AND WALK OFF MATS AT ALL DOORWAYS ADJACENT TO MAIN CORRIDOR. COORDINATE THE LOCATION OF ALL TEMPORARY CONSTRUCTION BARRIERS OWNER, ARCHITECT AND / OR CONSTRUCTION MANAGER. ASSUME THAT ALL CONSTRUCTION AREAS WILL REQUIRE A BARRIER BETWEEN CONSTRUCTION AND OCCUPIED SPACES. CONTRACTOR RESPONSIBLE FOR MAINTAINING PROPER EXISTS AND APPROVAL BY AUTHORITIES HAVING JURISDICTION FOR THESE BARRIERS.

D. REMOVE EXISTING PARTITIONS SHOWN W/ DASHED LINES. PROVIDE NEW FINISHES AS SCHEDULED AT ALL AREAS OF REMOVAL AND REPAIRS. WALL, CEILING AND FLOOR FINISHES TO MATCH ADJACENT SURFACES.

E. REMOVE ALL EXISTING DOORS AND HOLLOW METAL FRAME WHERE INDICATED WITH DASHED LINES.

F. ALL EXISTING FIRE EXTINGUISHERS TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

G. CONTRACTOR TO PROVIDE DURABLE TEMPORARY DIRECTION SIGNS TO EXITS AND OPERABLE RESTROOMS DURING CONSTRUCTION PERIOD.

H. PATCH/REPAIR SURFACES AS REQUIRED FOR NEW FINISH AS SCHEDULED, INCLUDING AREAS THAT WERE PREVIOUSLY OUT OF VIEW THAT ARE EXPOSED BY THIS PROJECT. MATCH EXISTING FINISHES U.N.O. THIS INCLUDES WORK BY ALL TRADES.

I. REMOVE ALL ROOM SIGNS RELATED TO THE AREA BEING RENOVATED. PREPARE FOR NEW SIGN INSTALLATION. COORDINATE FINAL LOCATIONS AND BLOCKING REQUIREMENTS WITH THE OWNER, ARCHITECT AND / OR CONSTRUCTION MANAGER.

J. DURING DEMOLITION AND CONSTRUCTION, LOCATE AND MAINTAIN SMOKE DETECTION DEVICES, FIRE ALARM DEVICES, FIRE EXTINGUISHERS, ILLUMINATION AND LIFE SAFETY SYSTEMS AS WOULD OTHERWISE BE REQUIRED IN AN OCCUPIED SPACE. PROTECT DETECTION DEVICES FROM ACCIDENTAL ACTIVATION DURING CONSTRUCTION BY GLOVE BAG OR OTHER APPROVED METHOD. REMOVE PROTECTION AT THE END OF WORK DAY OR SHIFT IF CONSTRUCTION AREA IS LEFT UNOCCUPIED.

K. COORDINATE SPECIFIC EGRESS REQUIREMENTS WITH THE OWNERS REPRESENTATIVE AND THE FIRE OFFICIALS PRIOR TO COMMENCING WORK.

L. COORDINATE TURN OVER OF ALL SALVAGED ITEMS WITH OWNER.

##.## KEYNOTES

2.01	DEMOLISH WALL/PARTITION IN ITS ENTIRETY.
2.06	EXISTING WALL TO REMAIN, PREPARE SURFACE FOR NEW FINISH AS SCHEDULED.
2.33	REMOVE AND SALVAGE EXISTING DOOR, HARDWARE, AND FRAME.
2.34	REMOVE EXISTING CARPET TILE FLOORING AND PREP FOR NEW FINISH.
2.41	REMOVE AND SALVAGE EXISTING FLAG.
2.48	REMOVE AND SALVAGE EXISTING PLAQUE.
2.58	REMOVE AND SALVAGE EXISTING MESSAGE BOARD.
2.60	DEMOLISH EXISTING WINDOW.
2.61	DEMOLISH EXISTING RECEPTION DESK.
2.65	DEMOLISH EXISTING CROWN MOLDING.
2.67	DEMOLISH EXISTING DOOR, SALVAGE HARDWARE.
2.68	EXISTING WALL AND WINDOWS TO REMAIN.
2.69	DEMOLISH PORTION OF EXISTING WALL, LENGTH SHOWN ON DRAWINGS.
2.70	REMOVE AND SALVAGE EXISTING CASEWORK, FURNITURE, AND BELL STAND.
2.71	EXISTING WALL TO REMAIN.
2.72	REMOVE AND SALVAGE EXISTING WOOD FRAME.
2.73	REMOVE AND SALVAGE EXISTING FURNITURE.
2.75	REMOVE AND SALVAGE EXISTING BOOKCASE.
2.76	REMOVE AND SALVAGE EXISTING COAT STAND.
2.77	REMOVE AND SALVAGE EXISTING ART.
2.78	REMOVE AND SALVAGE EXISTING CLOCK.
2.79	REMOVE AND SALVAGE EXISTING FILE STORAGE.
2.80	REMOVE AND SALVAGE EXISTING PRINTER.
2.81	REMOVE AND SALVAGE EXISTING MIRROR.
2.82	REMOVE AND SALVAGE EXISTING MONITOR.
2.83	REMOVE AND SALVAGE EXISTING TABLE.
2.84	REMOVE EXISTING BENCH SEATING.
2.85	REMOVE AND SALVAGE EXISTING EXIT SIGNAGE.

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS :

Number	Description	Date

PRINTINGS :

BID & PERMIT REVIEW DOCUMENTS	10/03/2025

CONSULTANTS

KLH ENGINEERS

MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

HOME GROWN. GREAT. MIAMI COUNTY COMMISSIONERS OHIO

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

LEVIN PORTER ARCHITECTS
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Levin Porter Associates Inc. dba Levin Porter Architects

DEMO ELEVATIONS

AD410

GENERAL NOTES - DEMOLITION

A. PROTECT EXISTING STRUCTURE, ADJACENT WINDOWS, DOORS AND OTHER BUILDING ELEMENT DURING DEMOLITION.

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##.## KEYNOTES

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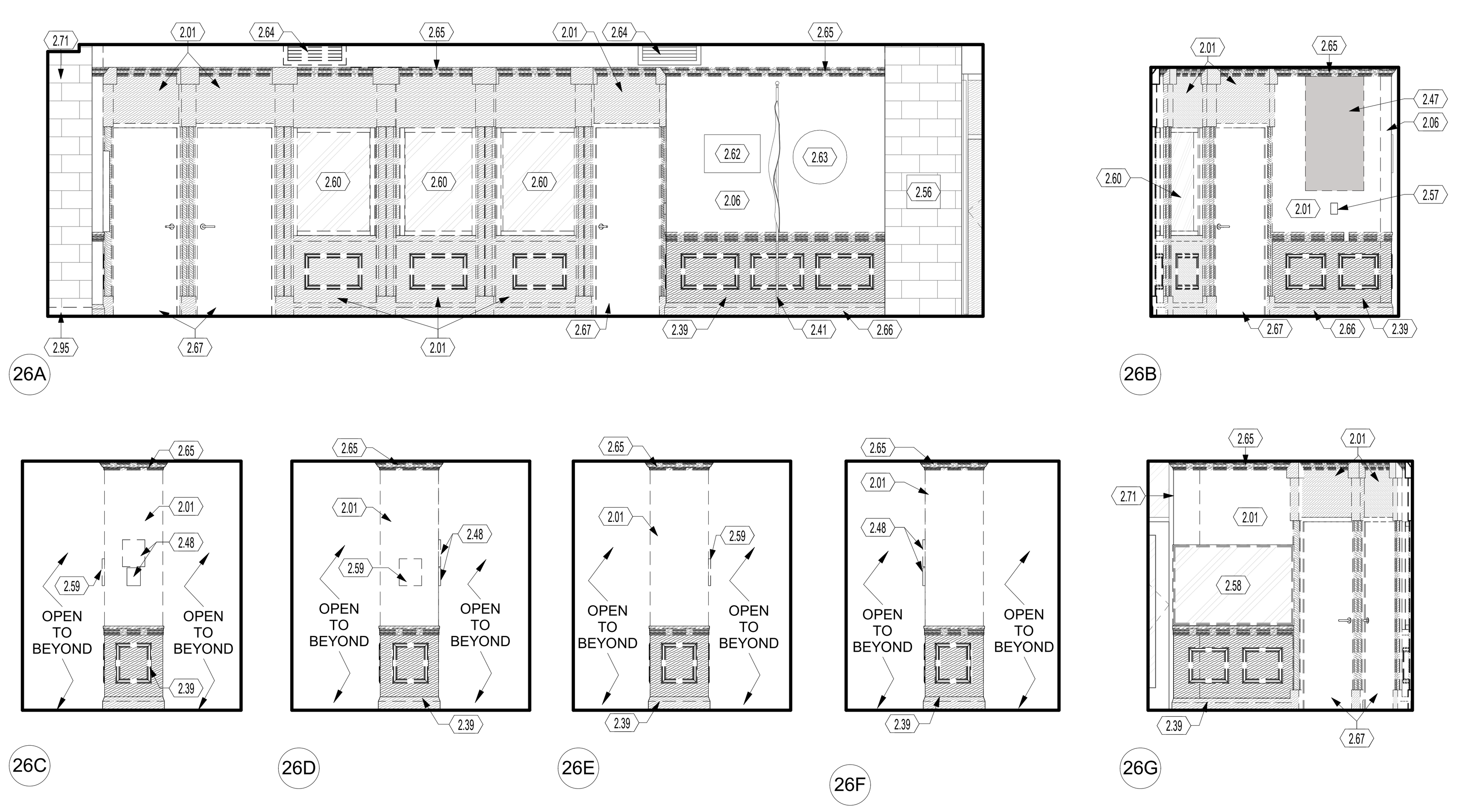
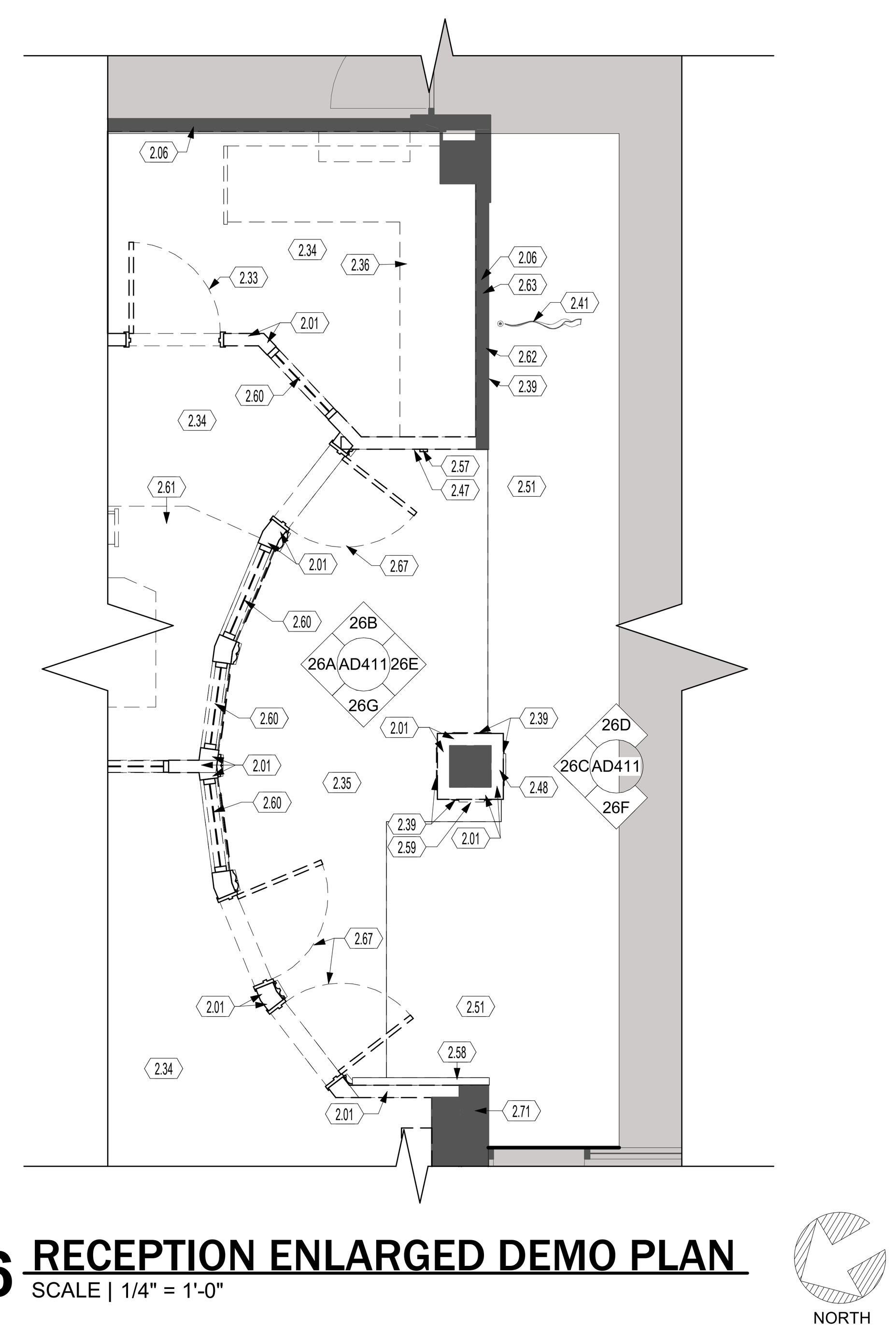
2.33	REMOVE AND SALVAGE EXISTING DOOR, HARDWARE, AND FRAME.
2.34	REMOVE EXISTING CARPET TILE FLOORING AND PREP FOR NEW FINISH.
2.35	REMOVE EXISTING FLOORING AND PREP FOR NEW FINISH.
2.36	REMOVE AND SALVAGE EXISTING OFFICE CASEWORK FOR REINSTALLATION.
2.39	DEMOLISH EXISTING WAINSCOT PANELS.
2.41	REMOVE AND SALVAGE EXISTING FLAG.
2.47	REMOVE AND SALVAGE EXISTING OHIO STATE FLAG.
2.48	REMOVE AND SALVAGE EXISTING PLAQUE.
2.51	EXISTING FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION.
2.56	EXISTING SIGNAGE TO REMAIN.
2.57	REMOVE AND SALVAGE EXISTING CARD READER FOR REINSTALLATION.
2.58	REMOVE AND SALVAGE EXISTING MESSAGE BOARD.
2.59	REMOVE AND SALVAGE EXISTING CERTIFICATE.
2.60	DEMOLISH EXISTING WINDOW.
2.61	DEMOLISH EXISTING RECEPTION DESK.
2.62	REMOVE AND SALVAGE MIAMI COUNTY COMMISSIONERS PLAQUE.
2.63	REMOVE AND SALVAGE MIAMI COUNTY SEAL PLAQUE.
2.64	EXISTING AIR DEVICE TO REMAIN.
2.65	DEMOLISH EXISTING CROWN MOLDING.
2.66	DEMOLISH EXISTING WOOD BASE.
2.67	DEMOLISH EXISTING DOOR, SALVAGE HARDWARE.
2.71	EXISTING WALL TO REMAIN.
2.95	DEMOLISH EXISTING WALL BASE.



26 ENTRANCE DEMO ELEVATIONS
SCALE | 1/4" = 1'-0"



16 RECEPTION ENLARGED DEMO PLAN
SCALE | 1/4" = 1'-0"

12/23/2025 10:19:37 AM

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
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CONSULTANTS
KLH ENGINEERS

MIAMI COUNTY
COMMISSIONER'S HEARING ROOM RENOVATION

MIAMI COUNTY COMMISSIONERS OHIO

PROJECT NO: 248698.00
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DEMO ELEVATIONS

AD411

GENERAL NOTES - FLOOR PLAN

A. SEE SHEET G002 FOR TYPICAL MOUNTING HEIGHTS.

B. ALL TWO-SIDED NEW INTERIOR PARTITIONS ARE A-1 UNLESS NOTED OTHERWISE.

C. COORDINATE FINAL PLACEMENT OF ALL WALL MOUNTED EQUIPMENT WITH SIGNAGE.

D. PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL/DATA CONTRACTORS, ARCHITECT, AND CONSTRUCTION MANAGER SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.

E. ALL WALLS ARE FULL HEIGHT TO DECK ABOVE, UNLESS NOTED OTHERWISE.

F. CONTRACTOR TO PROVIDE WOOD BLOCKING BACK-UP IN ALL STUD WALL ASSEMBLIES AS REQUIRED FOR MOUNTING OF ALL WALL HUNG ACCESSORIES, HUNG FIXTURES, VISUAL DISPLAYS, ETC. COORDINATE WITH OWNER PROVIDED EQUIPMENT AND LOCATIONS.

G. FOR FURNITURE LAYOUT, SEE FURNITURE PLAN.

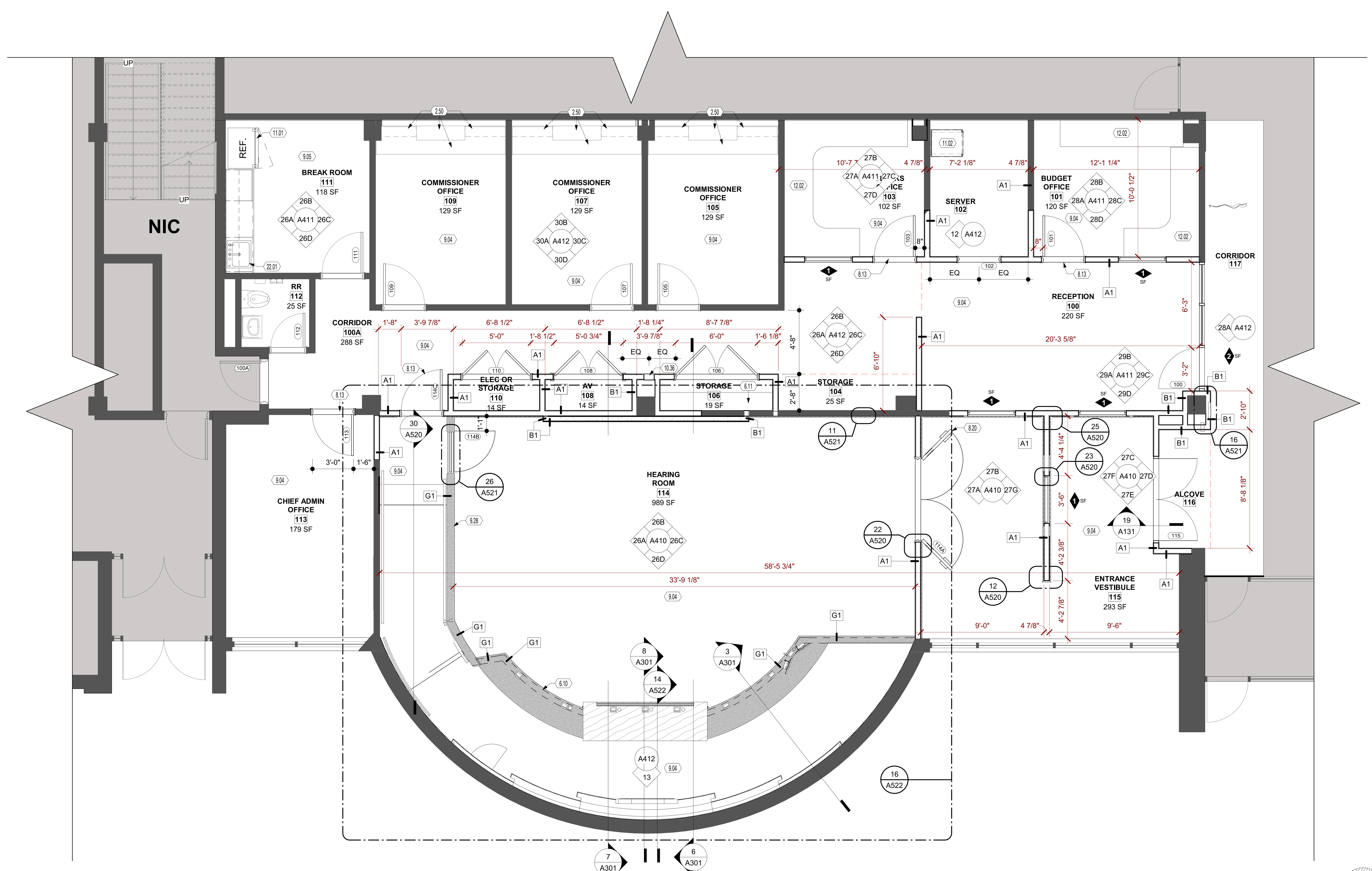
H. FOR WINDOW ELEVATIONS, SEE GLAZING SHEET

##.## KEYNOTES

2.50	EXISTING OFFICE CASEWORK TO REMAIN. PROTECT DURING CONSTRUCTION.
6.10	COMMISSIONERS BENCH WITH SOLID SURFACE TOP - SEE SHEET A521
6.11	3/4" PLYWOOD SHELVES.
8.13	RELOCATED EXISTING DOOR AND FRAME.
8.20	SALVAGED WOOD DOUBLE DOOR.
9.04	CARPET TILE. SEE FINISH PLAN AND SCHEDULE.
9.05	LUXURY VINYL TILE FLOORING. SEE FINISH PLAN AND SCHEDULE.
9.28	SOLID SURFACE WALL CAP.
10.36	FIRE EXTINGUISHER FULLY RECESSED CABINET.
11.01	REFRIGERATOR BY OWNER. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR OTHER REQUIREMENTS
11.02	EXISTING WALL MOUNTED NETWORK RACK TO REMAIN. SEE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR OTHER REQUIREMENTS
12.02	NEW FURNITURE SYSTEM WORKSURFACE BY OWNER. SHOWN FOR COORDINATION.
22.01	SINK. SEE PLUMBING DRAWINGS. (INSULATE PIPING BELOW).

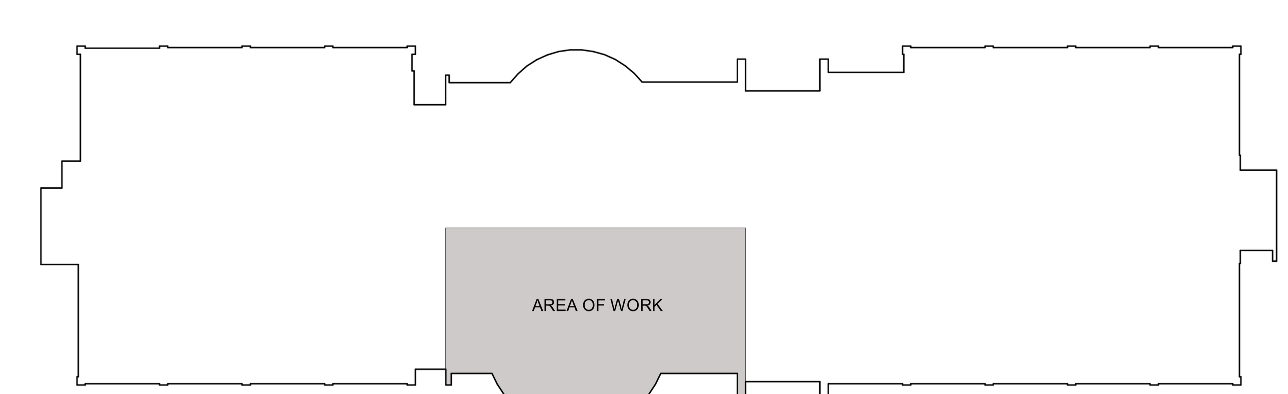
NEW WORK LEGEND

EXISTING DOOR
NEW DOOR
EXISTING WALL TO REMAIN
NEW PARTITION
AREA NOT IN CONTRACT



26 OVERALL FLOOR PLAN
SCALE | 1/4" = 1'-0"

NORTH



KEY PLAN

NORTH

12/23/2025 10:19:40 AM

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FIRST FLOOR PLAN

A101

KEYNOTES

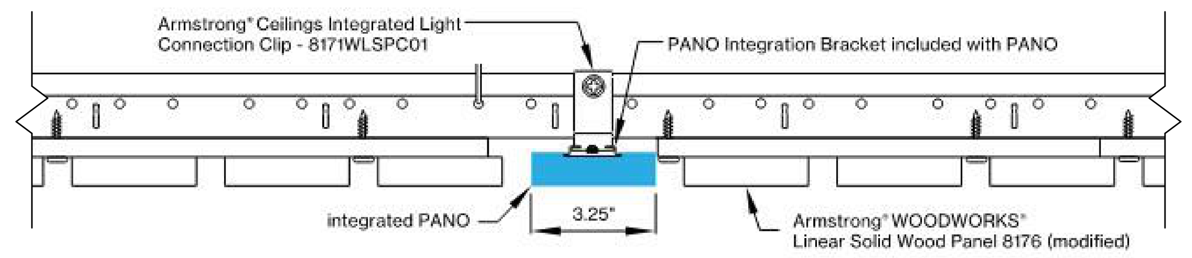
9.27 WOOD PLANK ACOUSTIC CEILING PANEL. SEE FINISH SCHEDULE.
11.02 EXISTING WALL MOUNTED NETWORK RACK TO REMAIN. SEE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR OTHER REQUIREMENTS

CEILING LEGEND

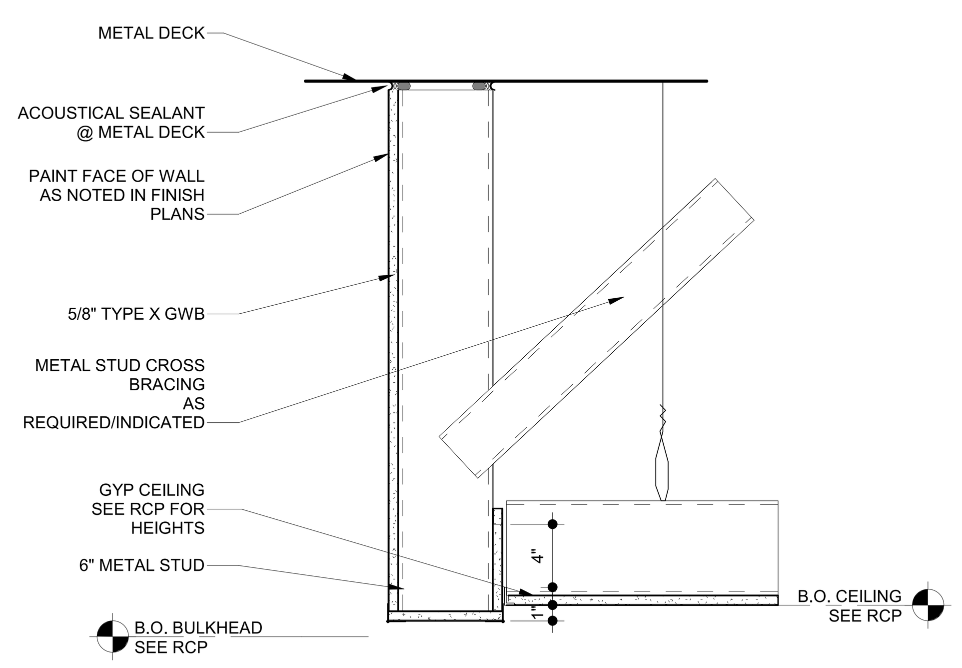
- 2' x 2' ACOUSTICAL CEILING
- 1' x 8' ACOUSTICAL CEILING
- EXPOSED STRUCTURE
- GYPSUM BOARD CEILING
- SOFFIT
- WOOD LOOK ACOUSTIC SYSTEM
- RETURN GRILLE
- SUPPLY GRILLE
- LINEAR SLOT RETURN DIFFUSER
- LINEAR SLOT SUPPLY DIFFUSER
- RECESSED LINEAR LIGHT FIXTURE
- 2' x 4' RECESSED LIGHTING FIXTURE
- RECESSED CAN LIGHT
- OP OCCUPANCY SENSOR
- EXIT SIGN

GENERAL NOTES - CEILING

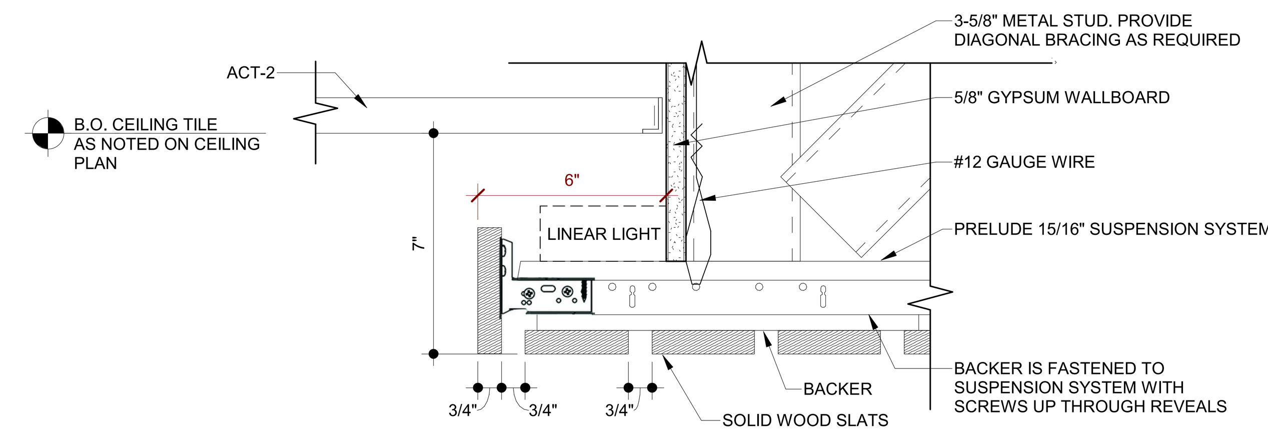
A. CEILING HEIGHTS ARE NOTED FROM THE EXISTING FLOOR SLAB AND NOT ANY ELEVATED PORTIONS OF THE SPACE UNLESS NOTED OTHERWISE.
B. EXTEND ALL FRAMING TO STRUCTURE U.N.O.
C. PROVIDE ACOUSTICAL SEALANT AT ALL SOFFIT LOCATIONS THAT EXTEND TO DECK.
D. SEE G-002 FOR PROJECT GENERAL REQUIREMENTS AND CEILING LEGEND.
E. ALL CEILING TILE TO BE CENTERED IN ROOM AND AT LEAST 6" OR GRATER IN SIZE UNLESS NOTED OTHERWISE.
F. REFER TO ADDITIONAL TRADES FOR ITEMS NOT SHOWN ON THESE DRAWINGS.
G. ALL PLASTER AND GYP. CEILINGS TO BE FINISHED AND PAINTED U.N.O.
H. CEILING DEVICES TO BE COORDINATED TO MATCH CEILING COLOR.



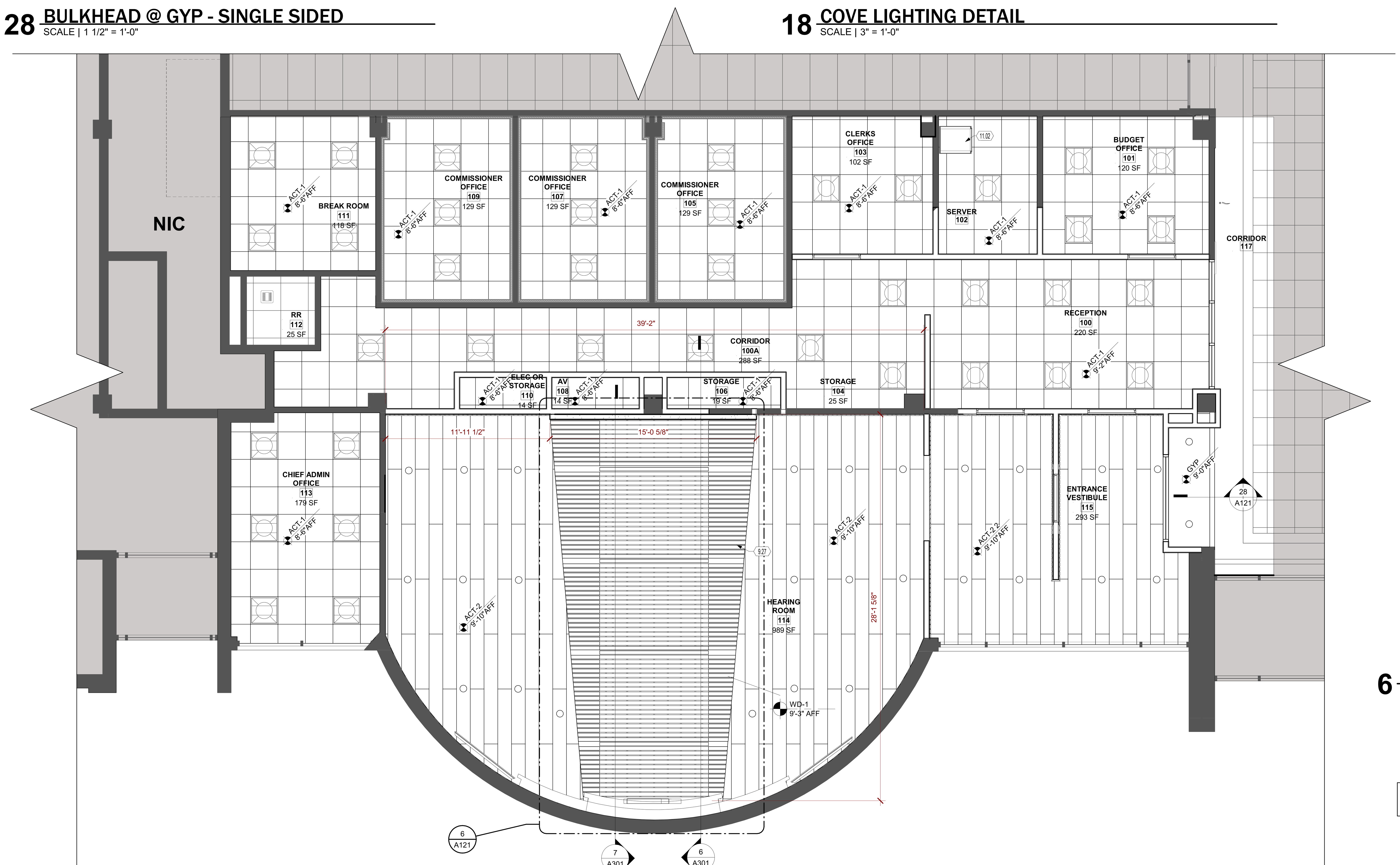
10 INTEGRATED CEILING LIGHT DETAIL
SCALE | 1 1/2" = 1'-0"



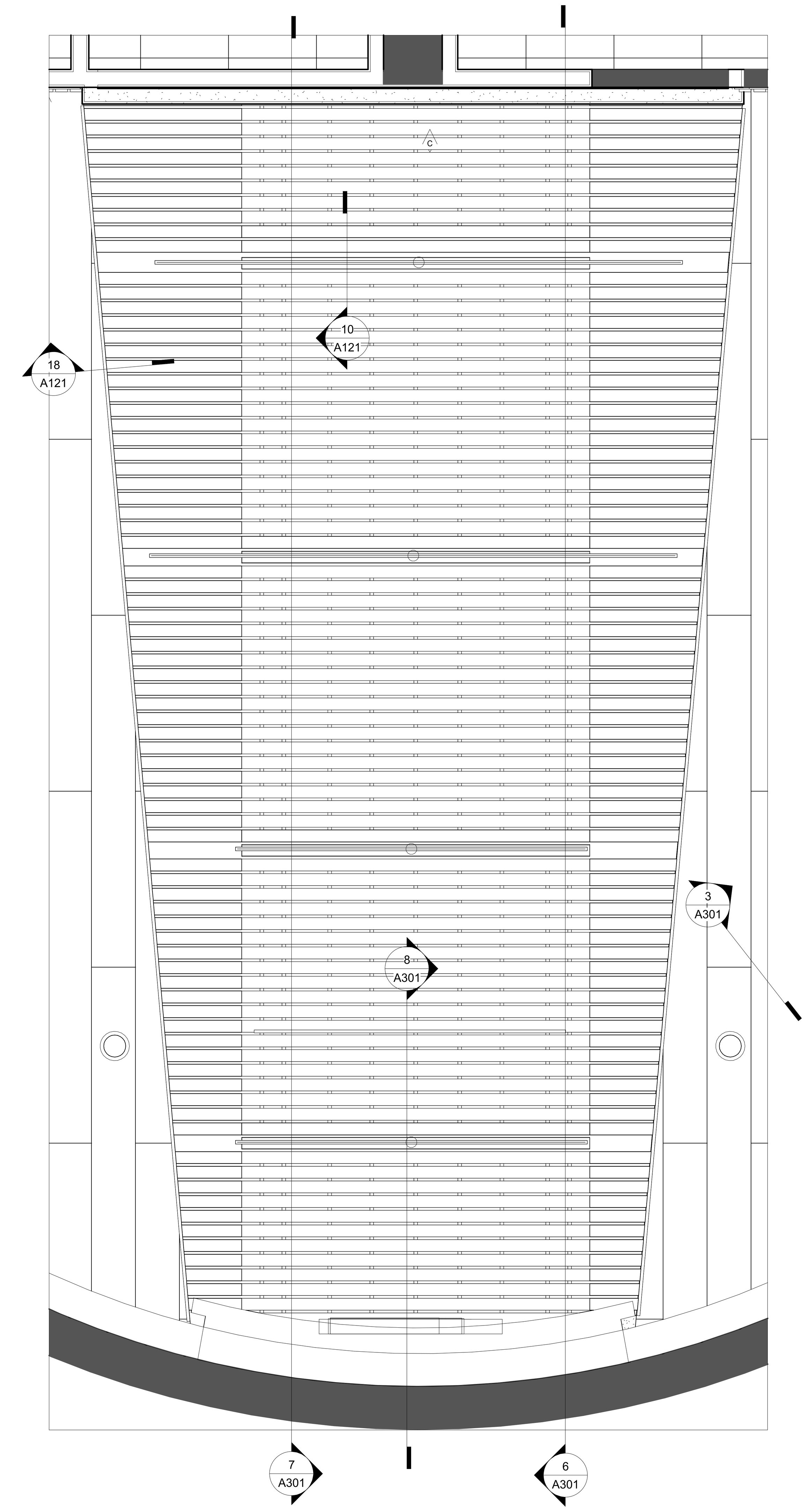
28 BULKHEAD @ GYP - SINGLE SIDED
SCALE | 1 1/2" = 1'-0"



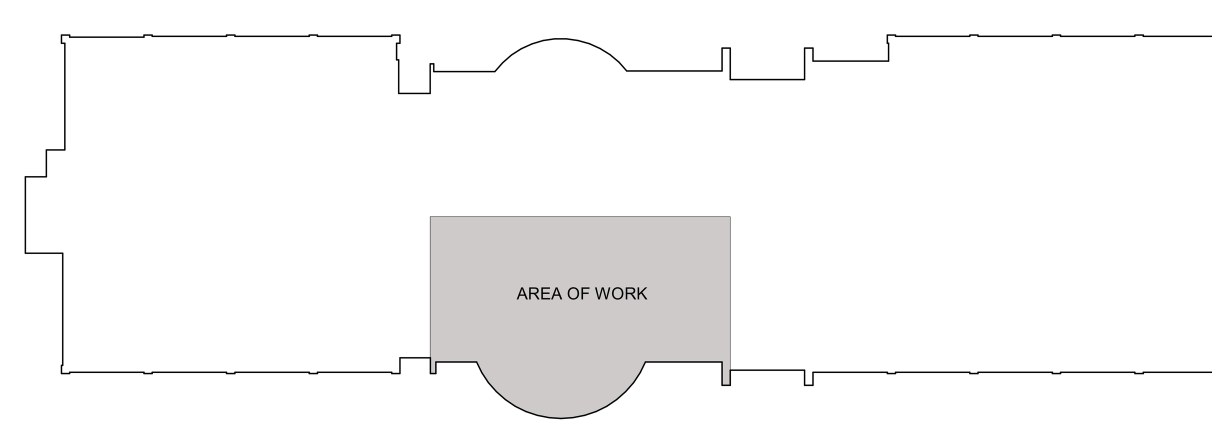
18 COVE LIGHTING DETAIL
SCALE | 3" = 1'-0"



26 REFLECTED CEILING PLAN
SCALE | 1/4" = 1'-0"



6 ENLARGED CEILING WEDGE
SCALE | 1/2" = 1'-0"



NORTH

KEY PLAN

NORTH

STATE OF OHIO MARK C. WISEMAN 13215 REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
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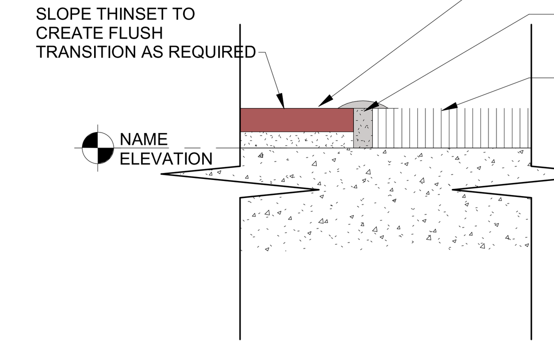
REFLECTED CEILING PLAN

A121

12/23/2025 10:19:42 AM

FINISH MATERIAL SCHEDULE					
KEY NAME	DESCRIPTION	BASIS OF DESIGN	MODEL NAME / COLOR / MODEL NUMBER	SIZE	COMMENTS
BASE					
EB-1	WOOD WALL BASE				EXISTING
EB-2	WALL BASE				EXISTING
RB -1	RUBBER BASE	ROPPE	700 SERIES / 193 BLACK BROWN	4"	
CASEWORK					
PL-1	PLASTIC LAMINATE	WILSONART	STUDIO TEAK 7960K-18	-	HEARING AND OFFICE CASEWORK
PL-2	PLASTIC LAMINATE	WILSONART	MORELIA MANGO 7985-38	-	BREAK ROOM CASEWORK
PT-1	PARTITION SCREEN	3FORM	CHROMA FIN PARTITION /	85" X 24"	HEARING CASEWORK
SS-1	SOLID SURFACE	CORIAN	STONIQUE	-	COUNTERTOPS AND HEARING CASEWORK
CEILING					
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	LYRA PB TEGULAR / WHITE / 8361PB	24" X 24"	
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG	LYRA PB TEGULAR / WHITE / 8379PB	12" X 96"	HEARING ROOM AND ENTRANCE VESTIBULE
GYP-1	GYPSUM CEILING, PAINTED	SHERWIN WILLIAMS	PNT-3	-	ALCOVE
WD-1	WOOD LOOK ACOUSTIC CEILING	ARMSTRONG	WOODWORKS LINEAR SOLID WOOD PANELS 8176W1 / ANTIQUE OAK (GAO)	12" X 96"	1713BL ACOUSTIC INFILL PANEL.
FLOORING					
CPT-1	CARPET TILE	PATCRAFT	LITHIC / I0684 REFORMED / 00790 ESPRESSO	18" X 36"	HEARING ROOM AND VESTIBULE. BRICK PATTERN
CPT-2	CARPET TILE	PATCRAFT	URBAN RELIEF / I0516 SUBURBAN ABSTRACT / 00700 RAILCAR	24" X 24"	CORRIDOR AND RECEPTION. BRICK PATTERN
CPT-3	CARPET TILE	SHAW CONTRACT	WEST ELM + SHAW CONTRACT / 5T486 GRIT TILE / 84506 CLAY	24" X 24"	OFFICES. BRICK PATTERN
EBR-1	BRICK FLOORING				EXISTING
ECT-1	CERAMIC TILE				EXISTING
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	SOLITUDE / 0648V SOLITUDE / 48761 UMBER	6" X 48"	BREAK ROOM. BRICK PATTERN
MISC.					
CLR-1	STOREFRONT		MATCH EXISTING		
ECM-1	WOOD CROWN MOLDING				EXISTING
ECR-1	WOOD CHAIR RAIL				EXISTING
EWD-1	WOOD DOOR FRAME				EXISTING
SS-2	SOLID SURFACE	CORIAN	STONIQUE	-	HEARING RAIL CAP
WD-1	WOOD DOOR FRAME		MATCH EXISTING		
WALLS					
ECN-1	CONCRETE				EXISTING
EEB-1	EXTERIOR BRICK				EXISTING
PNT-1	FIELD COLOR	SHERWIN WILLIAMS	SW 7568 NEUTRAL GROUND	-	FIELD COLOR
PNT-2	ACCENT COLOR 1	SHERWIN WILLIAMS	SW 6150 UNIVERSAL KHAKI	-	ACCENT
PNT-3	CEILING PAINT	SHERWIN WILLIAMS	PAINT TO MATCH EXISTING	-	GYPSUM CEILINGS
PNT-4	FIELD COLOR	SHERWIN WILLIAMS	PAINT TO MATCH EXISTING		SECURITY HALLWAY
WC-1	VINYL WALLCOVERING	MDC	LOOM-INOSITY Y48327LM / OTTER	-	HEARING CURVED ACCENT WALL
WD-2	WOOD LOOK ACOUSTIC PANEL	ARMSTRONG	WOODWORKS LINEAR SOLID WOOD PANELS 8176W1 / ANTIQUE OAK (GAO)	-	1713BL ACOUSTIC INFILL PANEL.

ROOM FINISH SCHEDULE									
		FINISHES							
				WALL FINISH					
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	CEILING FINISH	COMMENTS
100	RECEPTION	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
100A	CORRIDOR	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
101	BUDGET OFFICE	CPT-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
102	SERVER	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1		
103	CLERKS OFFICE	CPT-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
104	STORAGE	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
105	COMMISSIONER OFFICE	CPT-3	EWB-1	PNT-1, ECM-1	PNT-1, ECR-1, ECM-1	PNT-1, ECR-1, ECM-1	PNT-1, ECR-1, ECM-1	ACT-1	
106	STORAGE	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
107	COMMISSIONER OFFICE	CPT-3	EWB-1	PNT-1, ECM-1	PNT-1, ECR-1, ECM-1	PNT-1, ECR-1, ECM-1	PNT-1, ECR-1, ECM-1	ACT-1	
108	AV	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
109	COMMISSIONER OFFICE	CPT-3	EWB-1	PNT-1, ECM-1	PNT-1, ECR-1, ECM-1	PNT-1, ECR-1, ECM-1	PNT-1, ECR-1, ECM-1	ACT-1	
110	ELEC OR STORAGE	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
112	RR	ECT-1	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
113	CHIEF ADMIN OFFICE	CPT-3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
114	HEARING ROOM	CPT-1	RB-1	PNT-1	PNT-1, PNT-2, WD-2	PNT-1	PNT-1, WC-1	ACT-2, WD-1	
115	ENTRANCE VESTIBULE	CPT-1	RB-1	PNT-1, WD-2, EEB-1	PNT-1, WD-2	PNT-1, WD-2, ECN-1	ECN-1	ACT-2	
116	ALCOVE	EBR-1	RB-1	PNT-4	PNT-4	-	PNT-4	GYP-1	
117	CORRIDOR	EBR-1	RB-1	PNT-4, EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	



19 BRICK TO CARPET TRANSITION

SCALE | 6" = 1'-0"

GENERAL NOTES

A. SEE SHEET G-002 FOR PROJECT GENERAL REQUIREMENTS.

B. AT ALL AREAS INDICATED WITH EXPOSED CEILINGS, THE CONTRACTOR SHALL PAINT ALL STRUCTURE, DECKING, DUCTWORK, CONDUIT, AND OTHER NON-PREFINISHED ITEMS. COLOR SHALL BE AS SCHEDULED.

C. SEE FINISH PLANS AND ELEVATIONS FOR ALL SCHEDULED FINISHES INCLUDING WALL PAINT LOCATIONS AND COLORS. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.

D. CONTRACTOR TO APPLY TOPICAL MOISTURE MITIGATION SYSTEM BARRIER TO EXISTING FLOOR SURFACES PER SPECIFICATIONS/AS REQUIRED. IF MILESTONES / MOISTURE LEVELS ARE NOT MET, THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS RELATED TO MOISTURE MITIGATION WITHOUT DELAYING THE FLOORING INSTALLATION SCHEDULE.

E. COORDINATE FINAL CARPET PATTERN AND SELECTION WITH ARCHITECT.

F. SEE SPECIFICATIONS AND FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.

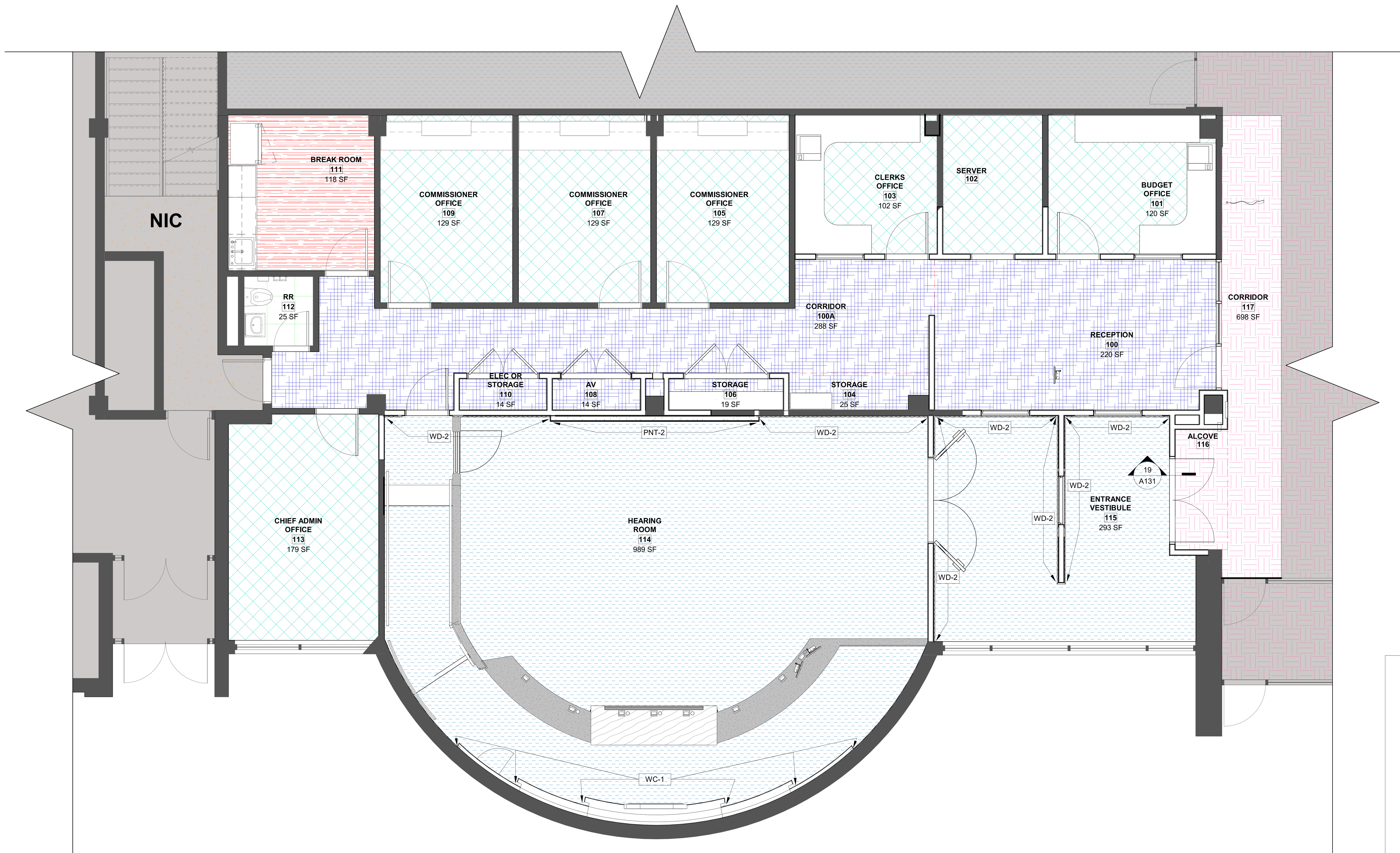
G. COORDINATE ALL FLOOR TRANSITION REQUIREMENTS.

H. SEE CEILING PLAN FOR ADDITIONAL FINISH INFORMATION.

I. WHERE FLOOR BOXES ARE INDICATED TO BE INSTALLED, THE CONTRACTOR SHALL INSTALL CARPET OR ADJACENT SPECIFIED FLOORING ON FLOOR OUTLET COVER. CONTRACTOR SHALL ALSO ABUT CARPET TO FIT TIGHTLY AROUND FLOOR OUTLET BOXES. TOP COVER AND TOP OF MAIN AREA OF CARPET SHALL BE FLUSH.

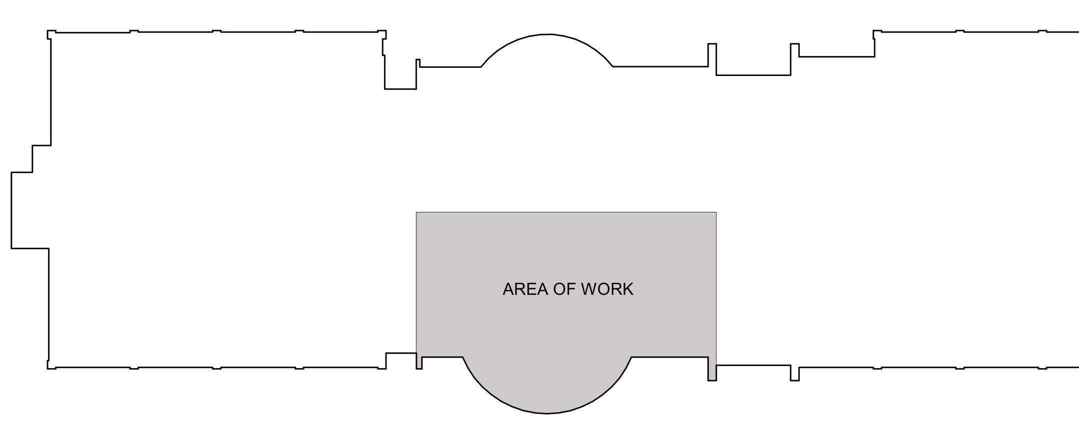
FLOOR FINISH LEGEND

- CPT-1
- CPT-2
- CPT-3
- ECT-1
- LVT-1
- EBR-1



26 OVERALL FLOOR PLAN

SCALE | 1/4" = 1'-0"



KEY PLAN

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS :

Number	Description	Date

PRINTINGS :

10/03/2025 BID & PERMIT REVIEW DOCUMENTS

CONSULTANTS

KLH ENGINEERS

MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

MIAMI COUNTY COMMISSIONERS OHIO HOME. GROWN. GREAT.

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

LEVIN PORTER ARCHITECTS
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MIAMISBURG, OHIO 45342
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Levin Porter Associates Inc. dba Levin Porter Architects

FLOOR FINISH PLAN

A131

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FURNITURE GENERAL SUMMARY

RECEPTION #100
- STAFF TASK CHAIR WITH ADJUSTABLE ARMS
- SYSTEMS FURNITURE RECEPTION DESK WITH TRANSACTION SURFACE. HPL FOR WORK SURFACES
- POWERED PANELS + WHIP
- ARTICULATING KEYBOARD TRAY
- BOX/BOX/FILE PED BELOW DESK
- REAR HPL WALL HUNG WORKSURFACE
- LATERAL FILE STORAGE BENEATH WORKSURFACE
- DESKTOP MOUNTED USB/POWER HUB
- (2) GUEST CHAIRS WITH FIXED ARMS

CORRIDOR #100A
- WALL MOUNTED HPL WORKSURFACE
- 5 SHELF HPL BOOKCASE
- (1) FIELD INSTALLED GROMMET FOR WORKSURFACE

BUDGET OFFICE #101
- STAFF TASK CHAIR WITH ADJUSTABLE ARMS
- WALL MOUNTED HPL FOR WORK SURFACES, CUSTOM SIZED FOR ROOM/CORNER.
- RADIUS INTERIOR CORNER AS INDICATED
- L-SHAPE SUPPORT HARDWARE AS REQUIRED
- ARTICULATING KEYBOARD TRAY
- (2) BOX/BOX/FILE PED BELOW DESK
- (2) WALL HUNG FLIPPER STORAGE
- (2) LATERAL FILE STORAGE BENEATH WORKSURFACE
- DESKTOP MOUNTED USB/POWER HUB
- (2) FIELD INSTALLED GROMMETS PER WORKSURFACE

CLERK'S OFFICE #103
- STAFF TASK CHAIR WITH ADJUSTABLE ARMS
- WALL MOUNTED HPL FOR WORK SURFACES, CUSTOM SIZED FOR ROOM.
- RADIUS INTERIOR CORNERS AS INDICATED
- L-SHAPE SUPPORT HARDWARE AS REQUIRED
- ARTICULATING KEYBOARD TRAY
- (2) BOX/BOX/FILE PED BELOW DESK
- (2) WALL HUNG FLIPPER STORAGE
- (2) LATERAL FILE STORAGE BENEATH WORKSURFACE
- DESKTOP MOUNTED USB/POWER HUB
- (2) FIELD INSTALLED GROMMETS PER WORKSURFACE

BREAK ROOM #111
- (3) SLED BASE STACK CHAIRS WITH PLASTIC GLIDES
- (1) 36" DIAMETER HPL TABLE WITH X-BASE, SEATED HEIGHT

HEARING ROOM #114
- (12) EXECUTIVE CHAIRS WITH STAR BASE AND SWIVEL
- (50) WOOD VENEER, UPHOLSTERED SEAT + WOOD BACK, STACKABLE, GALLERY CHAIRS WITH FIXED ARMS
- GALLERY SEATING SHALL BE GANGABLE
- TRINITY 'LUCI GUCI' BASIS OF DESIGN
- UPHOLSTERED BASE = CUSTOMER'S OWN MATERIAL
- (1) 24"X72" WOOD VENEER TABLE
- (1) WOOD VENEER PORTABLE PODIUM UNIT

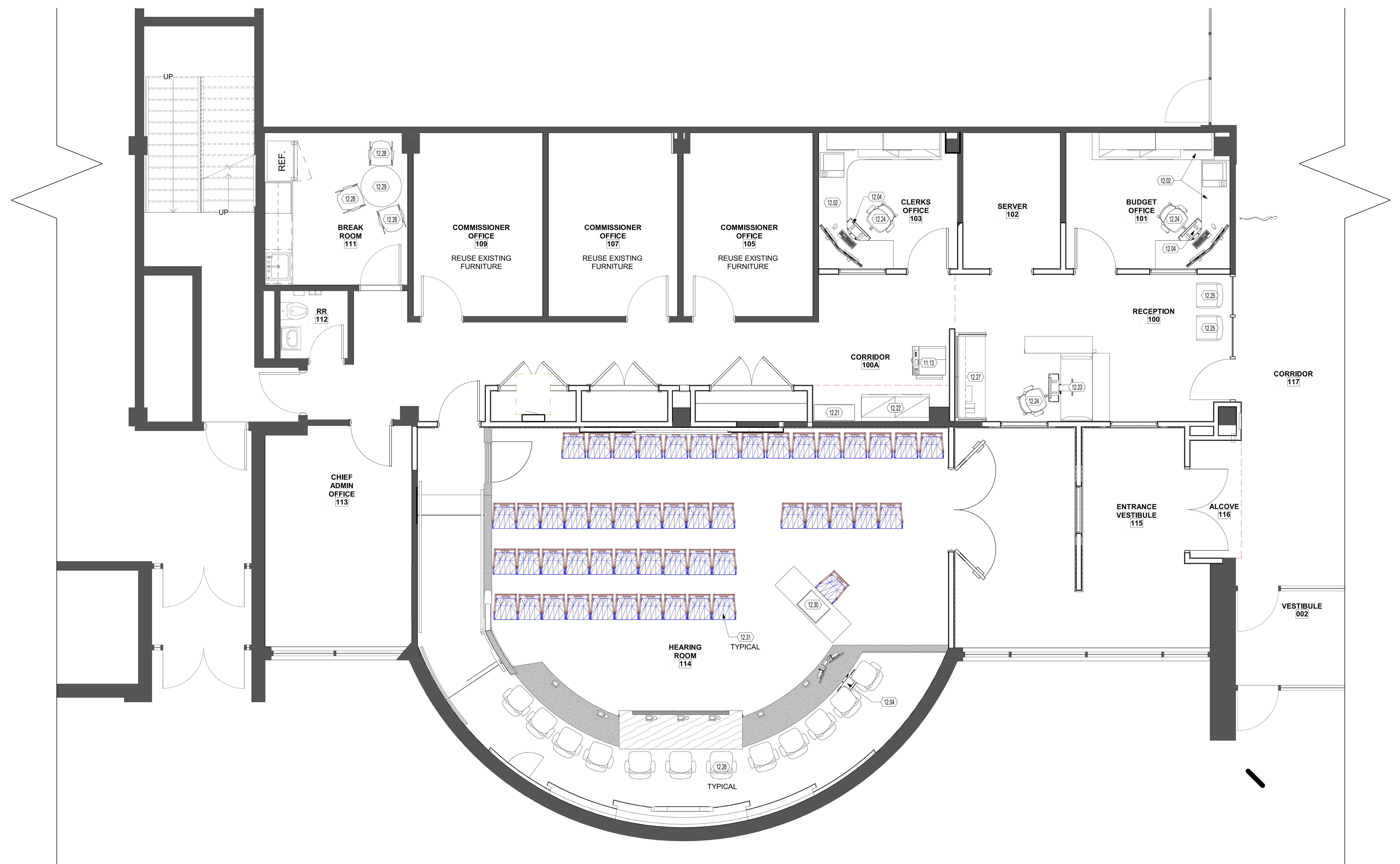
GENERAL NOTES - FURNITURE

1. ALL FURNITURE IS SHOWN FOR COORDINATION PURPOSES. CONTRACTOR SHALL COORDINATE INSTALLATION OF BUILDING SYSTEMS OR COMPONENTS TO ENSURE COMPATIBILITY AND FUNCTIONALITY WITH THE FURNITURE SYSTEMS.
2. CONTRACTOR SHALL COORDINATE THE PROJECT SCHEDULE TO ALLOW THE OWNER SUFFICIENT TIME AND SITE ACCESS TO HAVE FURNITURE DELIVERED AND INSTALLED PRIOR TO SUBSTANTIAL COMPLETION.
3. ONCE DELIVERED AND INSTALLED, FURNITURE AND STORAGE SYSTEMS SHALL BE PROTECTED BY THE CONTRACTOR. INSTALLED FURNITURE AND ASSOCIATED SURFACES ARE NOT WORK OR STAGING SURFACES AND SHALL NOT SERVE AS SUCH NOR BE USED TO ACCESS ABOVE CEILING AREAS.
4. OWNER, OR OWNER'S REP, SHALL PROVIDE INFORMATION NECESSARY FOR PROPER ROUGH-IN DIMENSIONS FOR POWER AND DATA SYSTEMS THAT MUST BE COORDINATED WITH FURNITURE. CONTRACTOR SHALL COORDINATE AS NEEDED WITH THE OWNER OR OWNER'S REP.
5. WOOD VENEERS SHALL BE SELECTED FROM MANUFACTURER'S FULL RANGE TO ACHIEVE CONSISTENCY ACROSS ALL FURNITURE PIECES. A CUSTOM STAIN FINISH MAY BE REQUIRED IF STOCK FINISHES FROM ACROSS MANUFACTURER'S CANNOT ACHIEVE AN ACCEPTABLE MATCH.

##.## KEYNOTES

11.13	COPIER PROVIDED AND INSTALLED BY OWNER.
12.02	NEW FURNITURE SYSTEM WORKSURFACE BY OWNER. SHOWN FOR COORDINATION.
12.04	ARTICULATING KEYBOARD TRAY, BY OWNER.
12.21	LOOSE BOOKSHELF BY OWNER. SHOWN FOR COORDINATION
12.22	WALL MOUNTED SYSTEMS FURNITURE WORKSURFACE AND SUPPORTS BY OWNER.
12.23	WORKSTATION WITH TRANSACTION SURFACES, BY OWNER. SHOWN FOR COORDINATION.
12.24	STAFF TASK CHAIR, BY OWNER.
12.25	GUEST CHAIR, BY OWNER.
12.26	EXECUTIVE CHAIR, BY OWNER
12.27	SYSTEMS FURNITURE STORAGE, BY OWNER. SHOWN FOR COORDINATION
12.28	BREAK ROOM SEATING, BY OWNER.
12.29	PEDESTAL BREAK ROOM TABLE, BY OWNER.
12.30	WOOD VENEER TABLE WITH PORTABLE PODIUM UNIT, BY OWNER.
12.31	GANGED GALLERY SEATING UNITS, BY OWNER

FURNITURE IS OWNER PROVIDED AND OWNER INSTALLED



21 FURNITURE PLAN
SCALE | 1/4" = 1'-0"

12/23/2025 10:19:45 AM

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

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KLH ENGINEERS

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HOME. GROWN. GREAT. MIAMI COUNTY COMMISSIONERS OHIO

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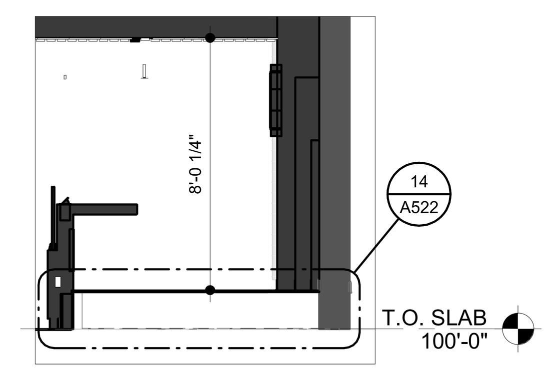
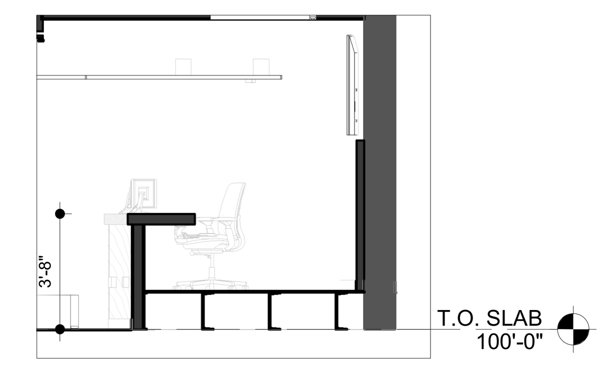
Levin Porter Associates Inc. dba Levin Porter Architects

FURNITURE PLAN
A141



8 HEARING BENCH SECTION 1
SCALE | 1/4" = 1'-0"



3 HEARING BENCH SECTION 2
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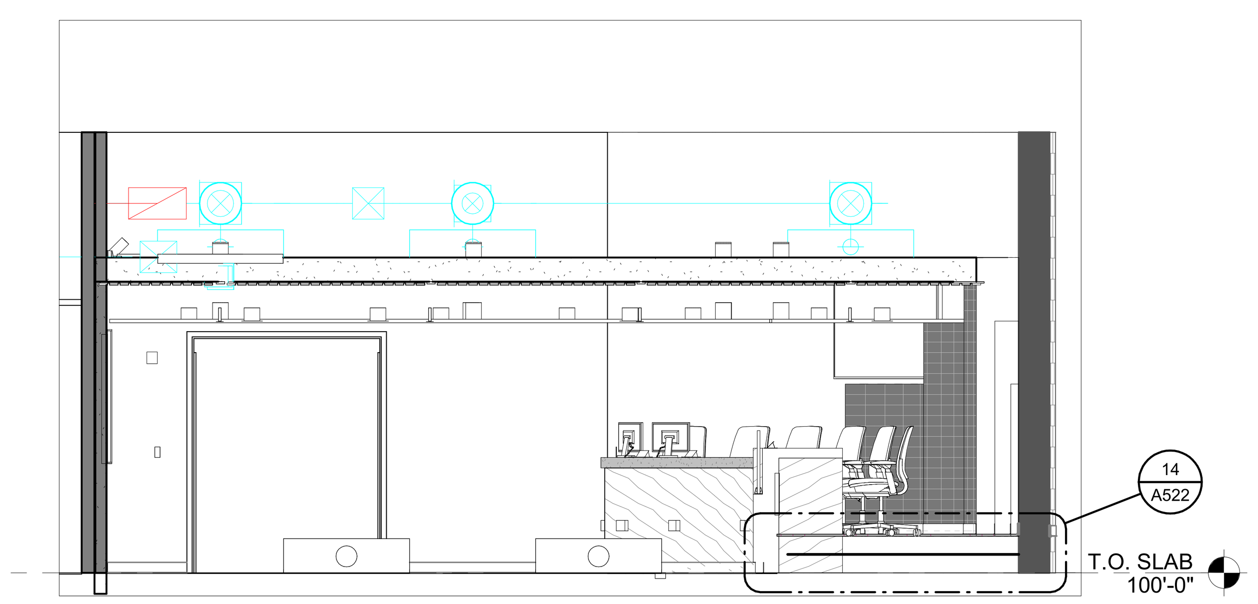
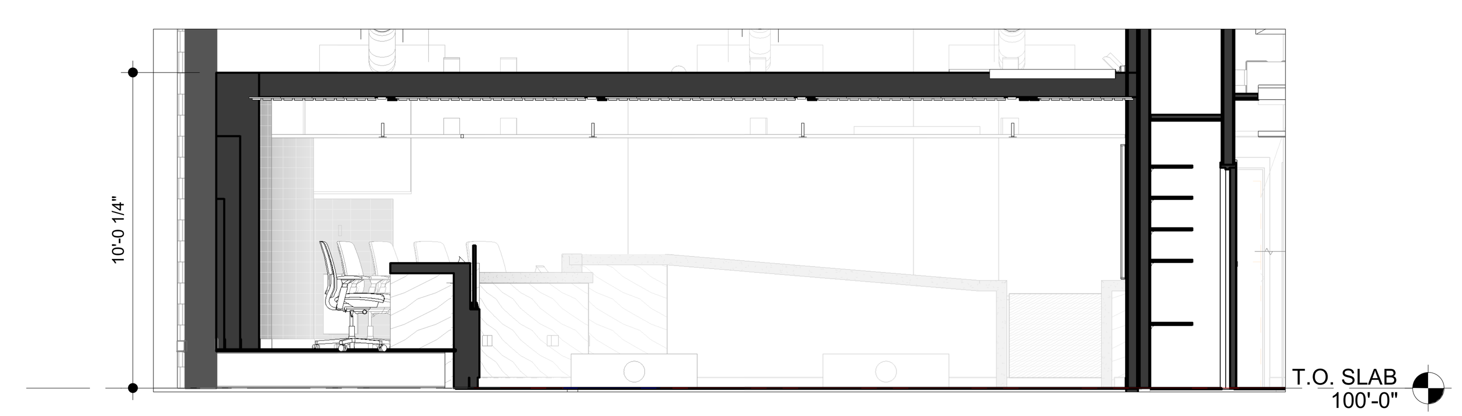


7 HEARING RM SOUTH SECTION
SCALE | 1/4" = 1'-0"



6 HEARING RM NORTH SECTION
SCALE | 1/4" = 1'-0"

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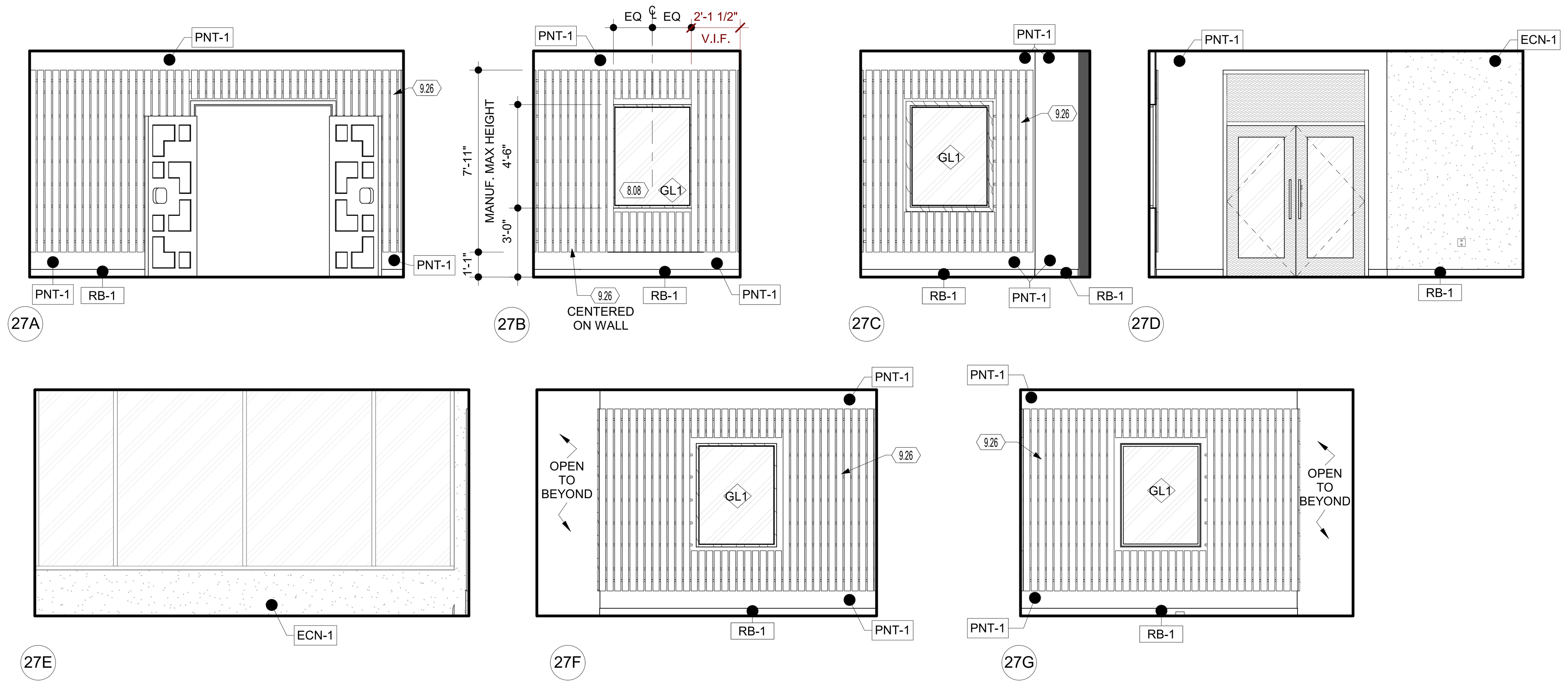
BUILDING SECTIONS
A301



27 VESTIBULE ELEVATIONS
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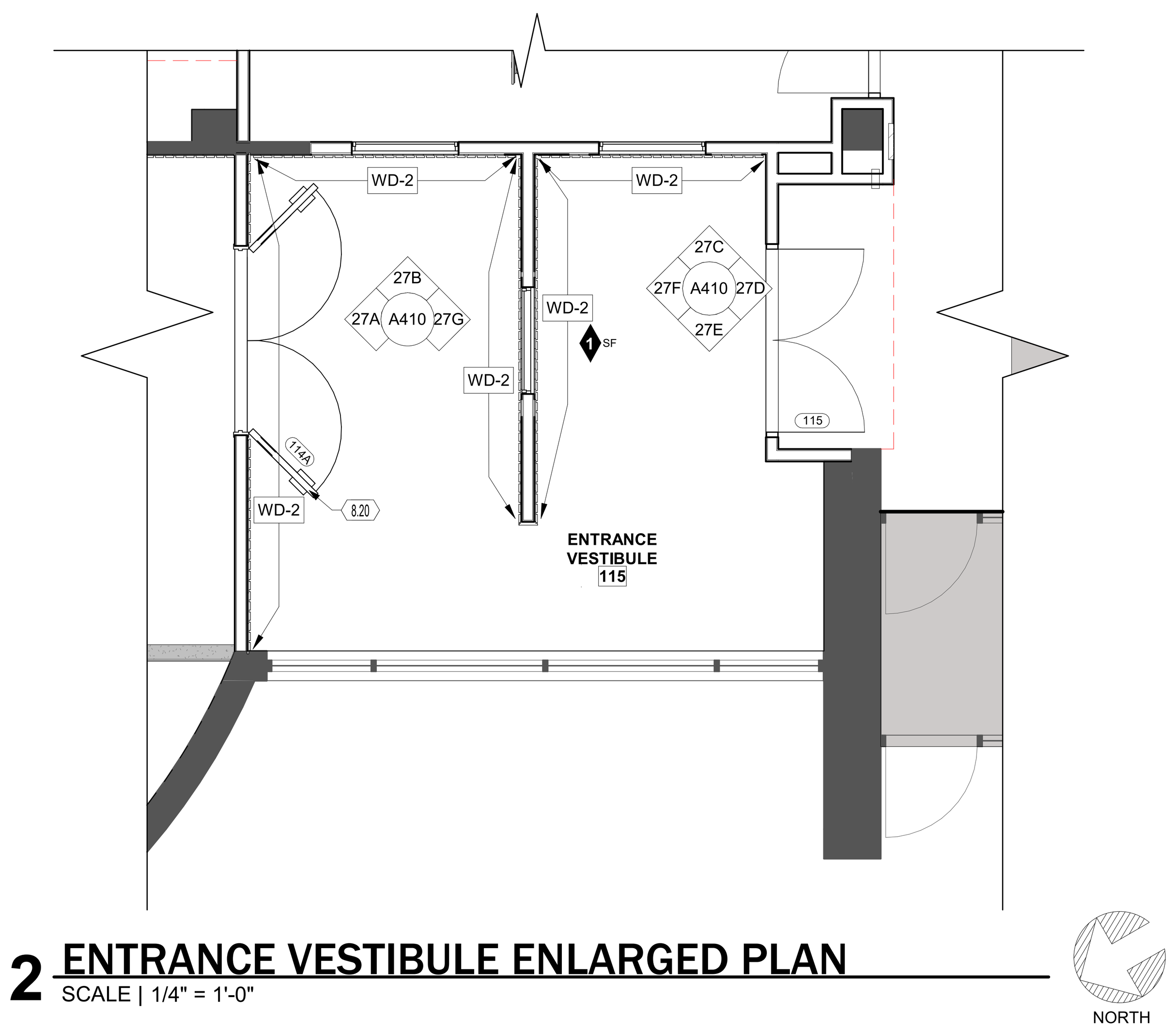

12 ENTRANCE VESTIBULE ENLARGED PLAN
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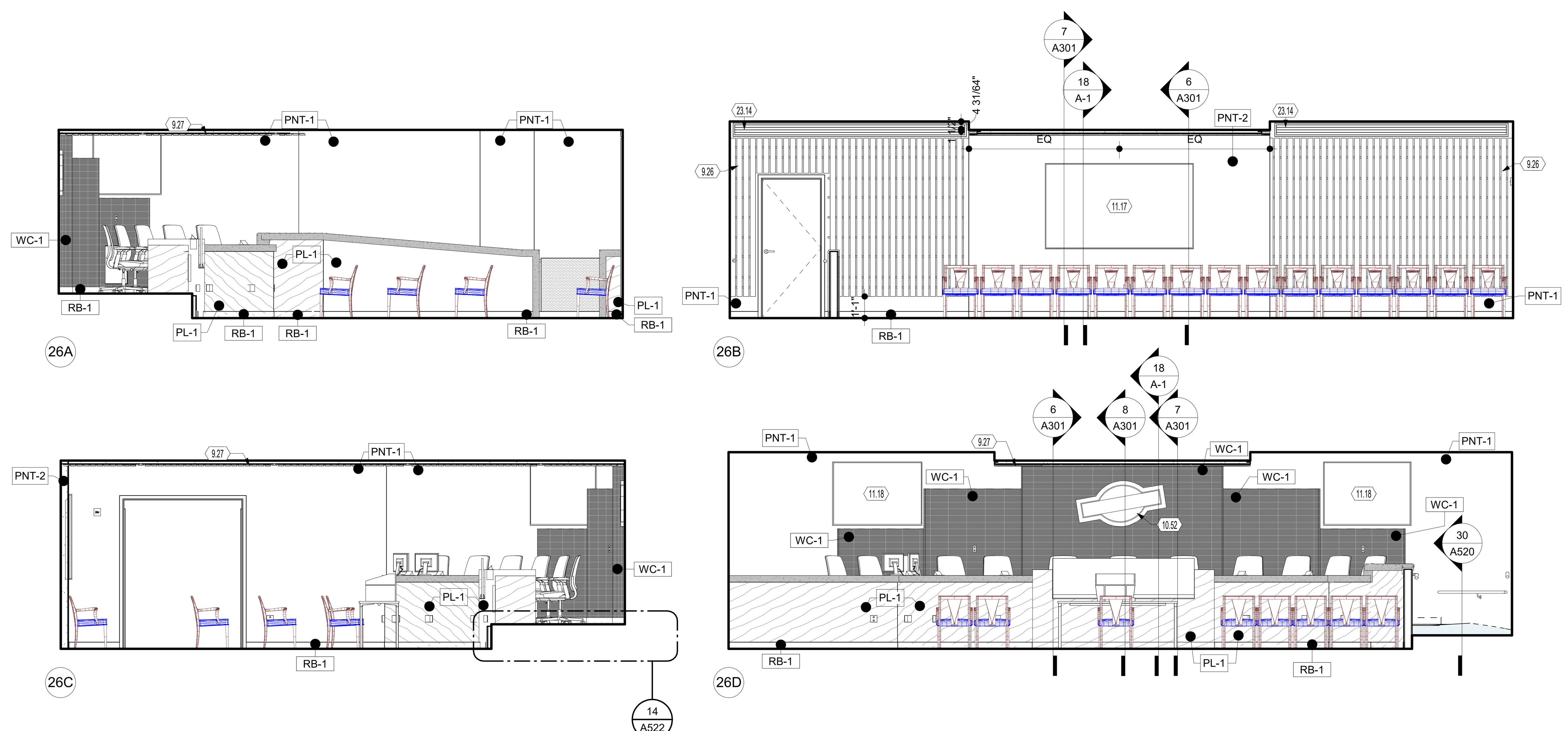

26 HEARING ROOM ELEVATIONS
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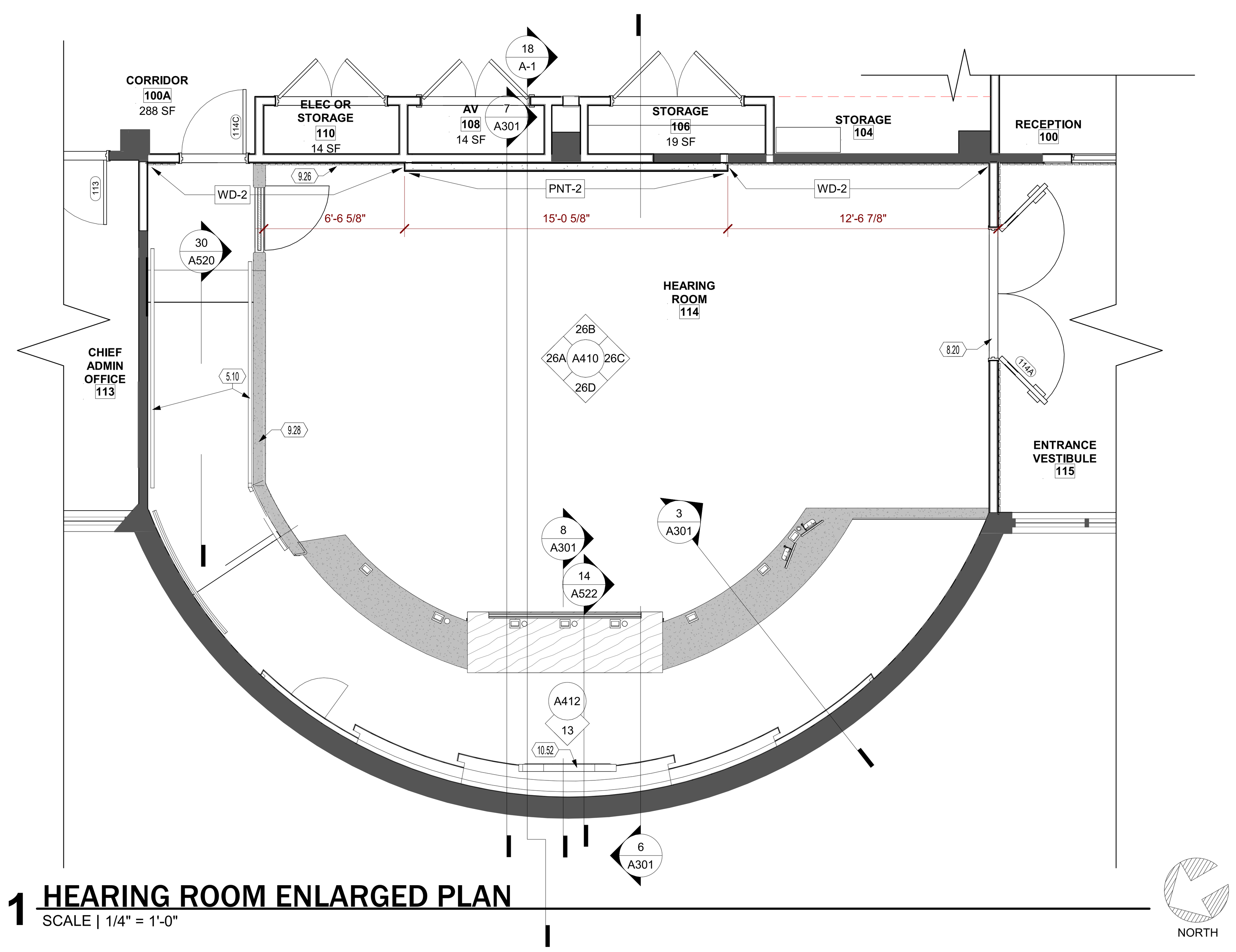

11 HEARING ROOM ENLARGED PLAN
SCALE | 1/4" = 1'-0"

GENERAL NOTES - ELEVATIONS

A. SEE G-002 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.

B. SEE FINISH PLANS FOR ALL SCHEDULED FINISHES. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.

C. PRIOR TO GYPSUM BOARD INSTALL ALL EXPOSED PENETRATIONS SHALL BE REVIEWED BY OWNER/ARCHITECT.

D. PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL/DATA CONTRACTORS, AND ARCHITECT SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.

E. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF ELECTRICAL, PLUMBING AND MECHANICAL DEVICES WITH THE ARCHITECTURAL ITEMS. ELECTRICAL PLUMBING AND MECHANICAL DEVICES ARE TYPICALLY SHOWN SCHEMATICALLY ON THE PME DRAWINGS AND NOT INTENDED TO REPRESENT THEIR SPECIFIC LOCATION. REVIEW ARCHITECTURAL DRAWINGS FOR WALL MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

CASEWORK KEY

WALL CABINETS

W # # X
- MODIFIER
- CABINET WIDTH (INCHES)
- CABINET HEIGHT (INCHES)
- CABINET TYPE

BASE CABINETS

B # X
- MODIFIER
- CABINET WIDTH (INCHES)
- CABINET TYPE

CABINET TYPE
W - WALL CABINET
B - BASE CABINET
TC - TALL CABINET
DB - DRAWER BASE
SB - SINK BASE
MC - MICROWAVE CABINET
CH - TALL TEACHER CABINET
C - STUDENT CUBBIES

MODIFIER
A - ADA HEIGHTS
D - WITH DRAWER
L - LOCKABLE
X - DATA CABINET
R - ADA HEIGHT WITH DRAWER
C - CORNER UNIT
N - ADA HEIGHT CORNER UNIT
S - DESK HEIGHT CORNER UNIT

##.## KEYNOTES

5.10	ALUMINUM WALL MOUNTED HANDRAIL.
8.08	FIXED, FIELD FABRICATED WOOD WINDOW UNIT
8.20	SALVAGED WOOD DOUBLE DOOR.
9.26	WOOD PLANK ACOUSTIC WALL PANEL. SEE FINISH SCHEDULE.
9.27	WOOD PLANK ACOUSTIC CEILING PANEL. SEE FINISH SCHEDULE.
9.28	SOLID SURFACE WALL CAP.
10.52	NEW 48" WIDE WALL MOUNTED BRONZE LOGO. MATCH COUNTY STANDARD. OWNER TO PROVIDE GRAPHIC FILE.
11.17	WALL MOUNTED 100" TELEVISION BY OWNER - PROVIDE POWER AND BLOCKING AS REQUIRED.
11.18	WALL MOUNTED 75" TELEVISION BY OWNER - PROVIDE POWER AND BLOCKING AS REQUIRED.
23.14	LINEAR WALL AIR DEVICES. REFER TO MECHANICAL DRAWINGS.

STATE OF OHIO
MARK C. WISEMAN
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REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
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INTERIOR ELEVATIONS

A410

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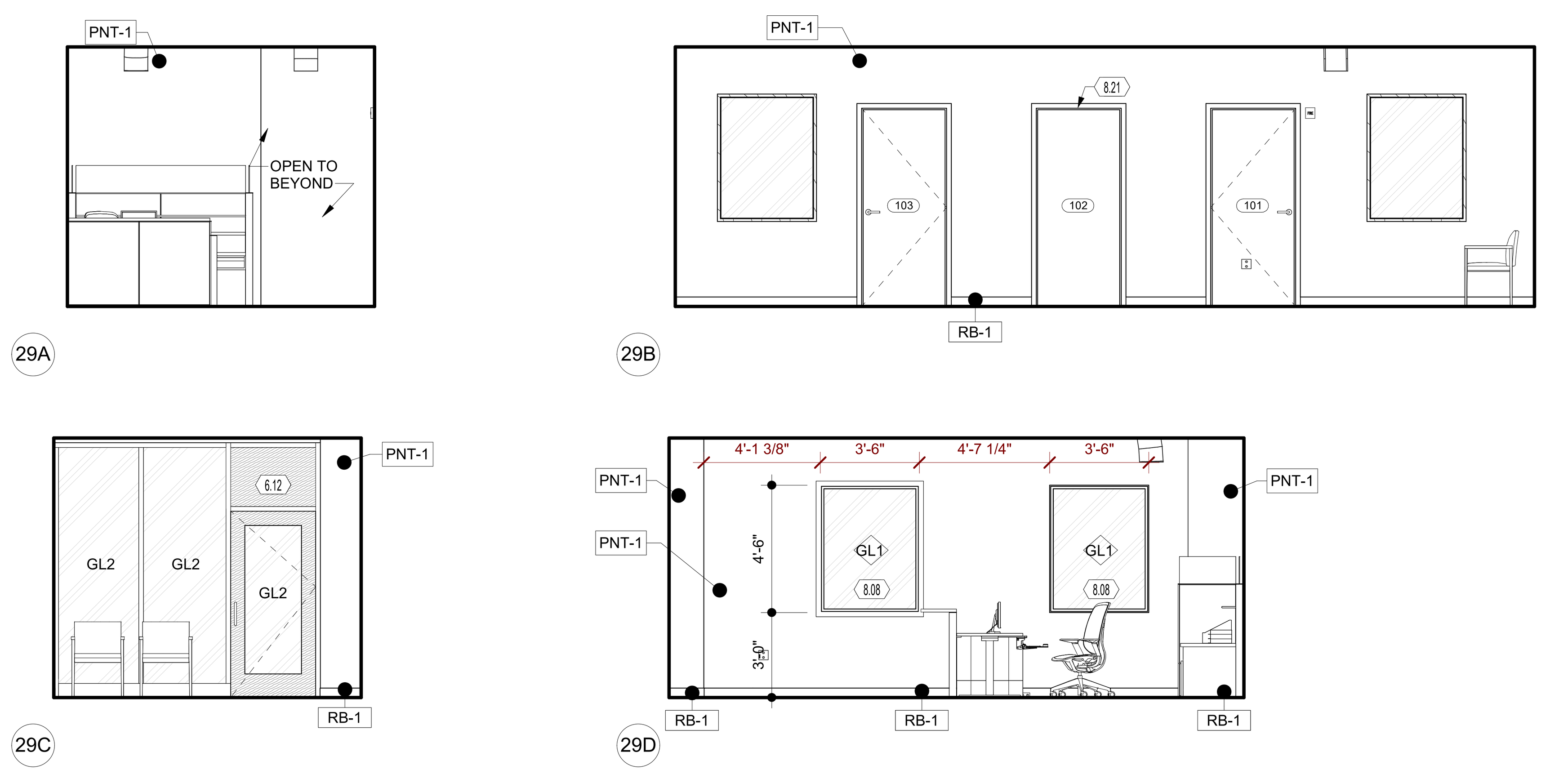

29 RECEPTION ELEVATIONS
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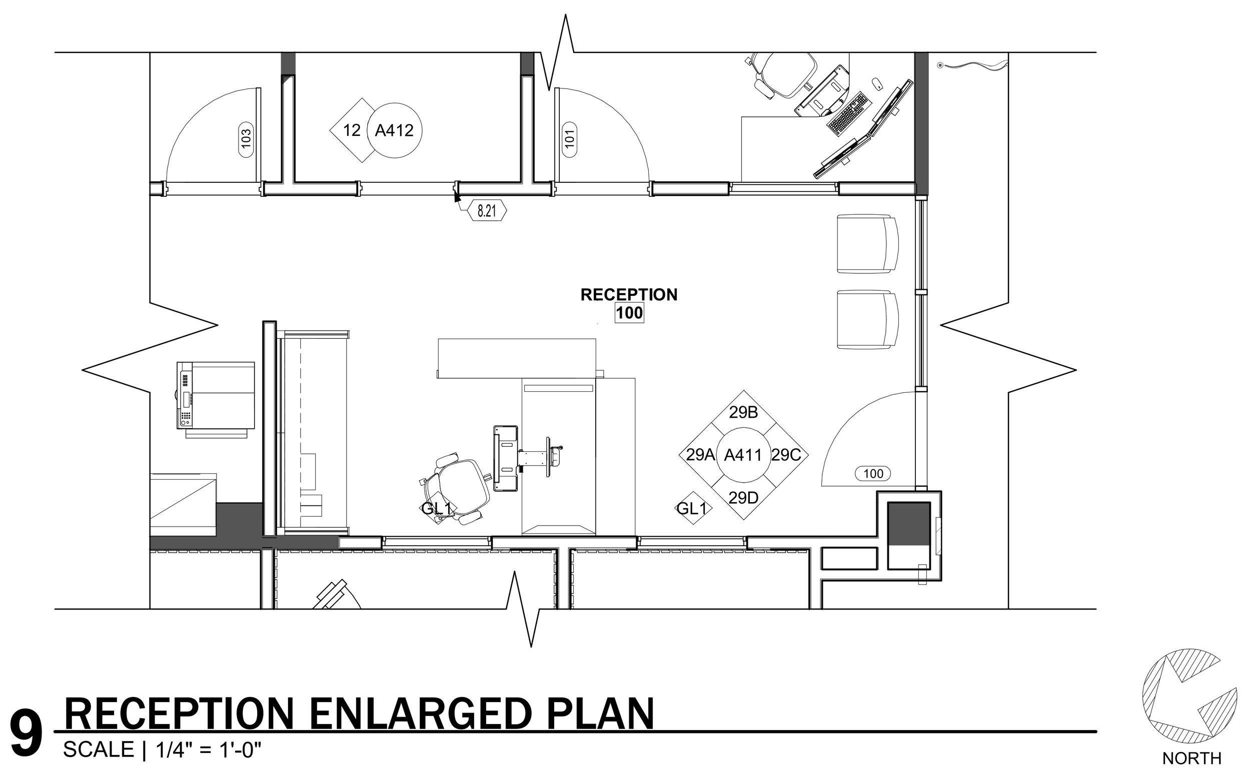
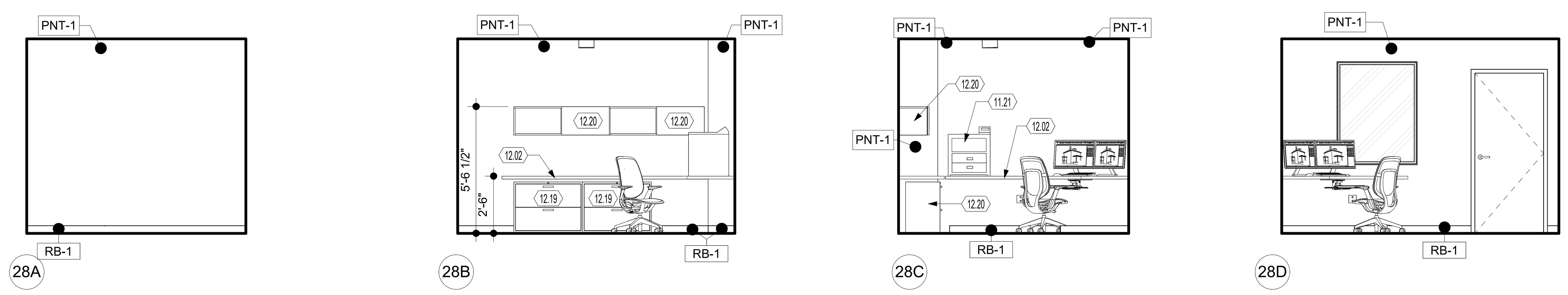


19 RECEPTION ENLARGED PLAN
SCALE | 1/4" = 1'-0"



28 BUDGET OFFICE ELEVATIONS
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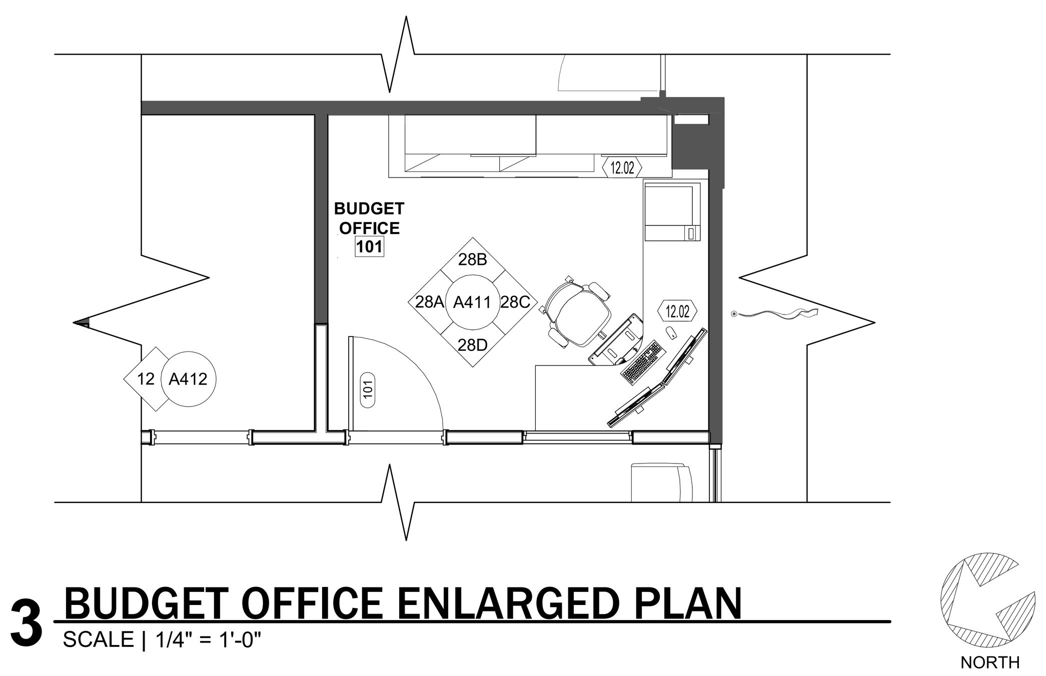

13 BUDGET OFFICE ENLARGED PLAN
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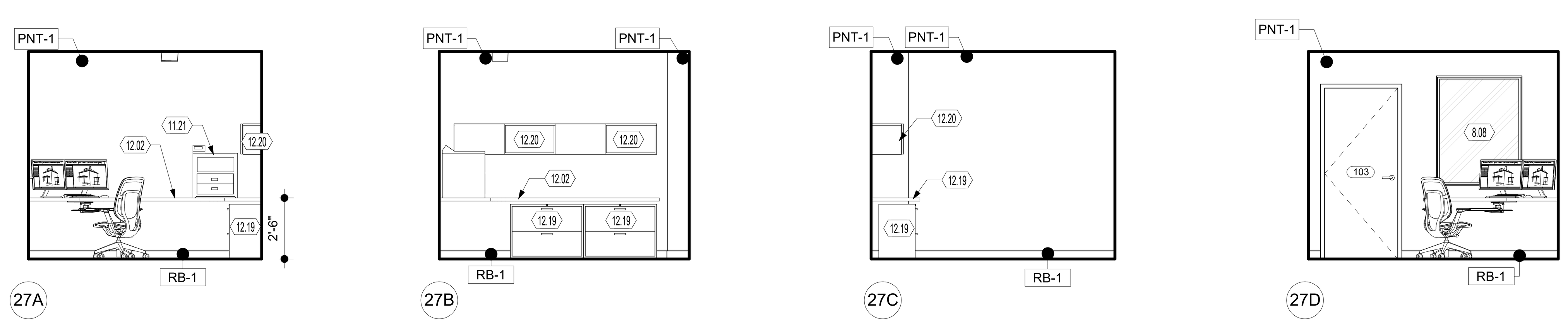

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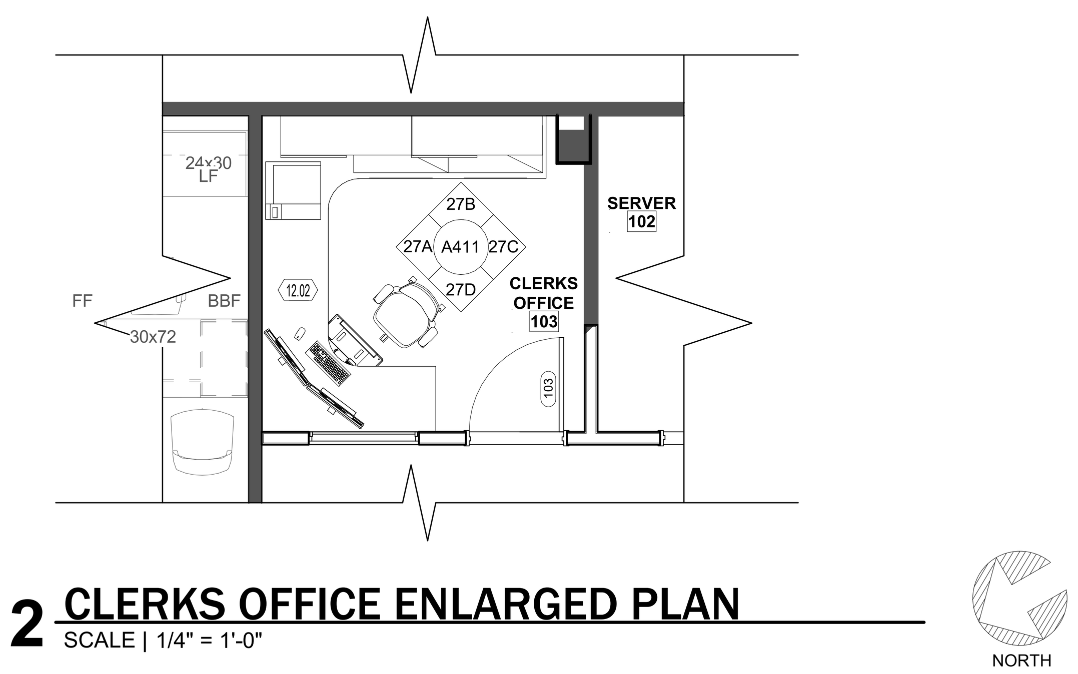

12 CLERKS OFFICE ENLARGED PLAN
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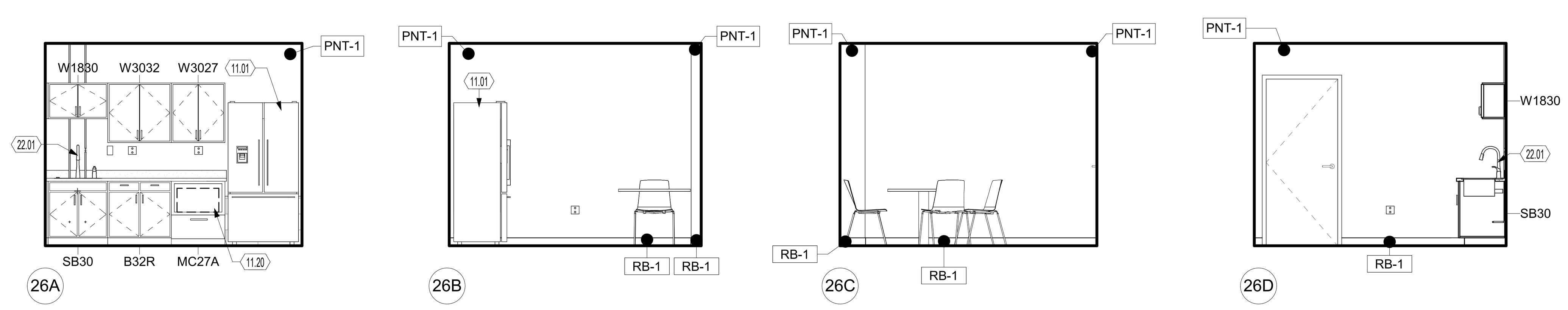
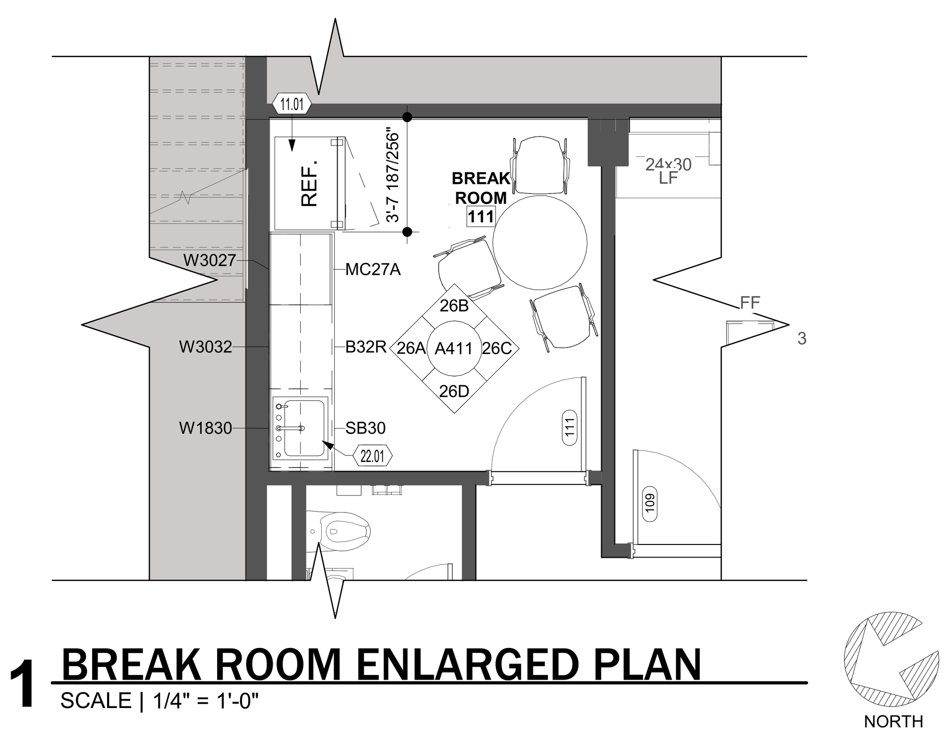


26 HEARING ROOM ELEVATIONS
SCALE | 1/4" = 1'-0"



11 BREAK ROOM ENLARGED PLAN
SCALE | 1/4" = 1'-0"

GENERAL NOTES - ELEVATIONS

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C - STUDENT CUBBIES

MODIFIER
A - ADA HEIGHTS
D - WITH DRAWER
L - LOCKABLE
X - DATA CABINET
R - ADA HEIGHT WITH DRAWER
C - CORNER UNIT
N - ADA HEIGHT CORNER UNIT
S - DESK HEIGHT CORNER UNIT

##.## KEYNOTES

6.12	STAINED WOOD TRANSOM PANEL.
8.08	FIXED, FIELD FABRICATED WOOD WINDOW UNIT
8.21	SALVAGED WOOD FRAME.
11.01	REFRIGERATOR BY OWNER. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR OTHER REQUIREMENTS
11.20	OWNER PROVIDED MICROWAVE. PROVIDE POWER. REFER TO ELECTRICAL DRAWINGS.
11.21	WORKSTATION PRINTER BY OWNER. SHOWN FOR COORDINATION
12.02	NEW FURNITURE SYSTEM WORKSURFACE BY OWNER. SHOWN FOR COORDINATION.
12.19	LOOSE FILE STORAGE UNIT BY OWNER. SHOWN FOR COORDINATION.
12.20	WALL MOUNTED SYSTEMS FURNITURE WALL STORAGE UNIT BY OWNER. SHOWN FOR COORDINATION.
22.01	SINK. SEE PLUMBING DRAWINGS. (INSULATE PIPING BELOW).

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS :

Number	Description	Date

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10/03/2025 BID & PERMIT REVIEW DOCUMENTS

CONSULTANTS
KLH ENGINEERS

MIAMI COUNTY
COMMISSIONER'S HEARING ROOM RENOVATION

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

LEVIN PORTER ARCHITECTS
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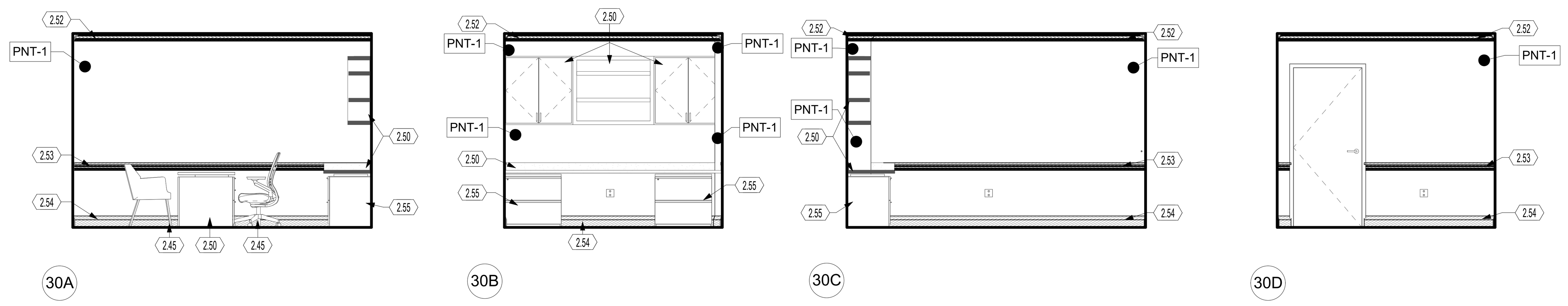
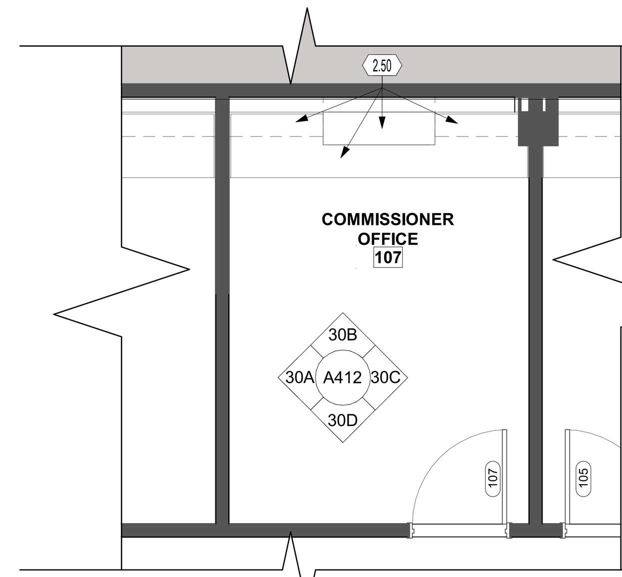
Levin Porter Associates Inc. dba Levin Porter Architects

INTERIOR ELEVATIONS

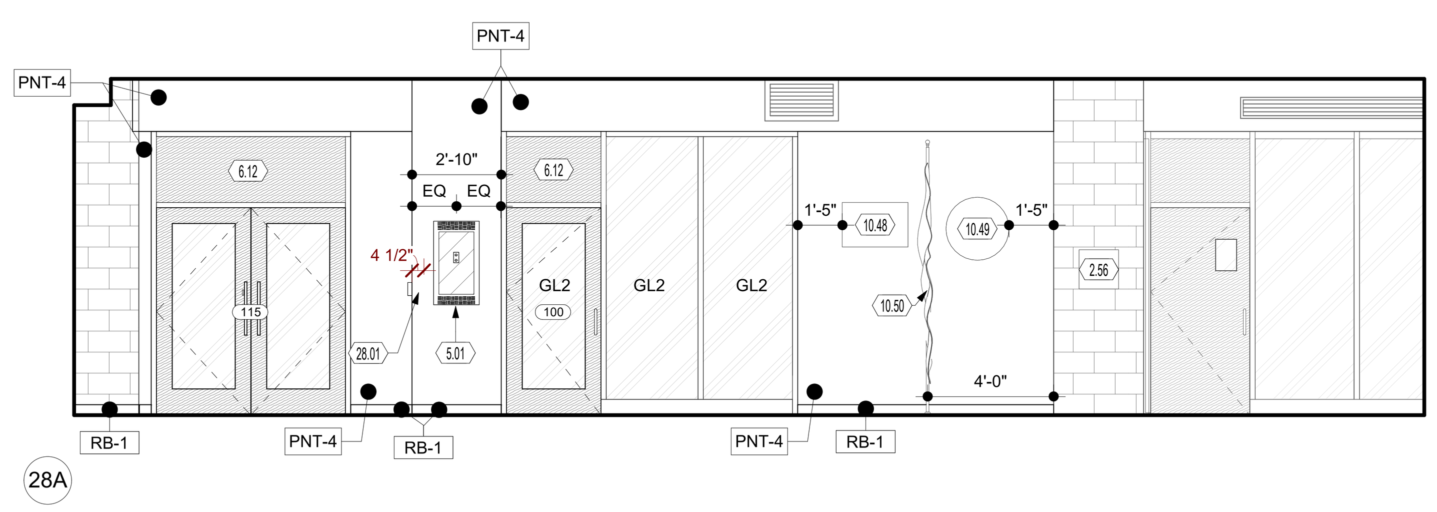
A411



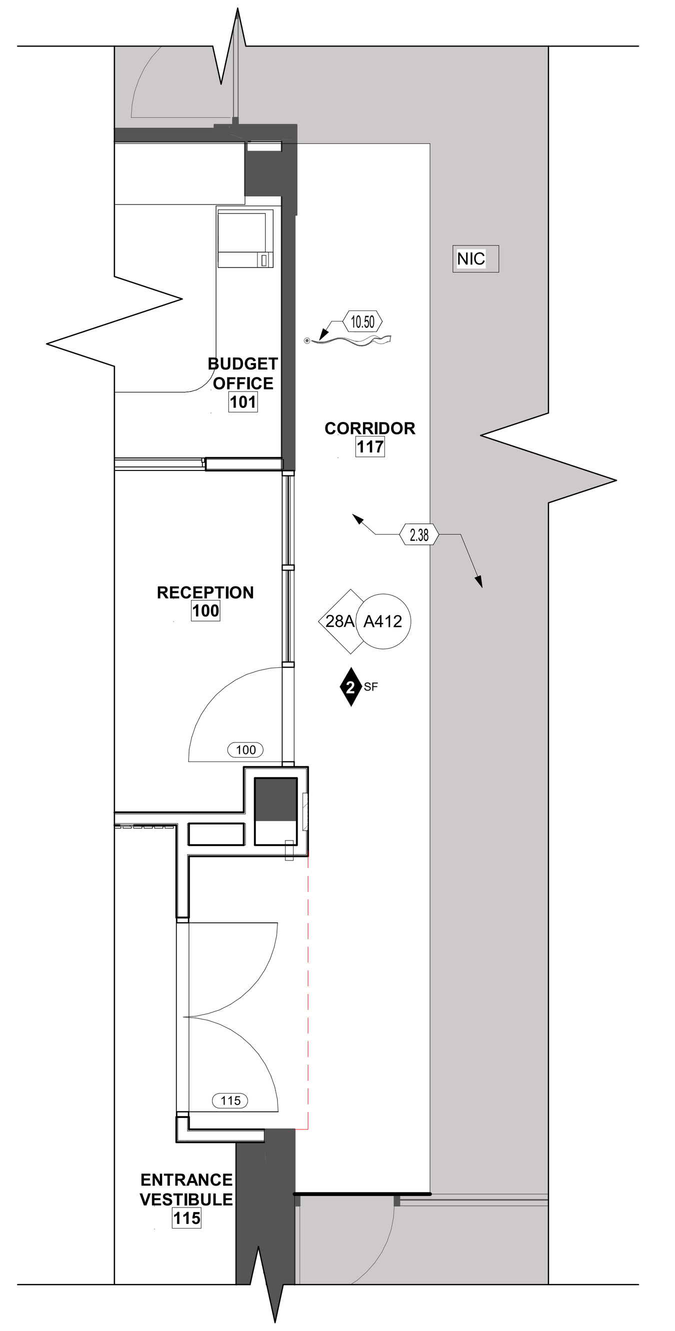
30 TYPICAL OFFICE ELEVATIONS
SCALE | 1/4" = 1'-0"



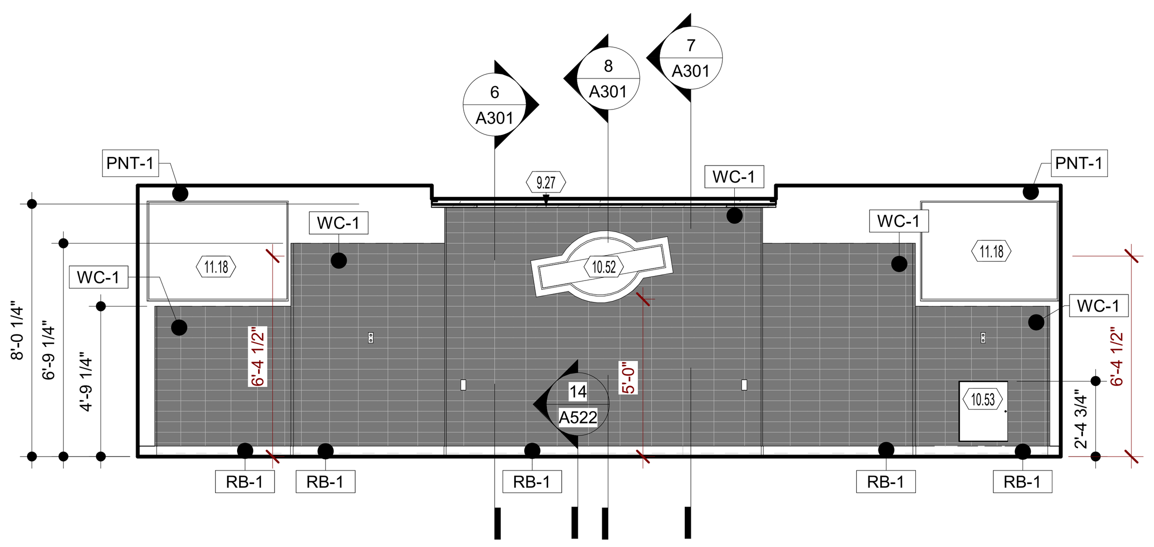
15 TYP. COMMISSIONERS OFFICE ENLARGED PLAN
SCALE | 1/4" = 1'-0"



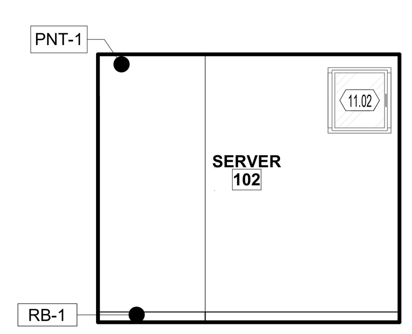
28 MAIN HALLWAY ELEVATION
SCALE | 1/4" = 1'-0"



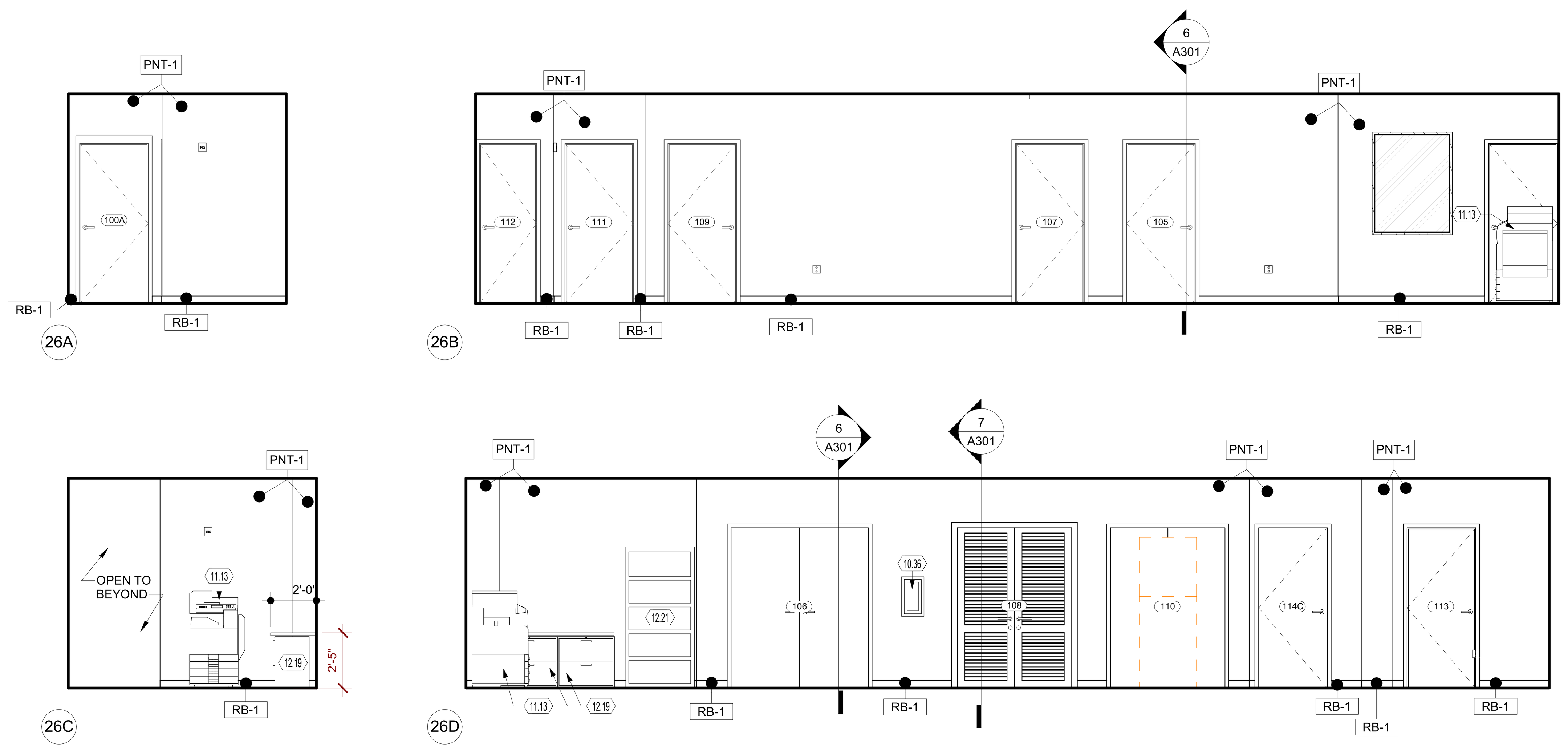
18 MAIN HALLWAY ENLARGED PLAN
SCALE | 1/4" = 1'-0"



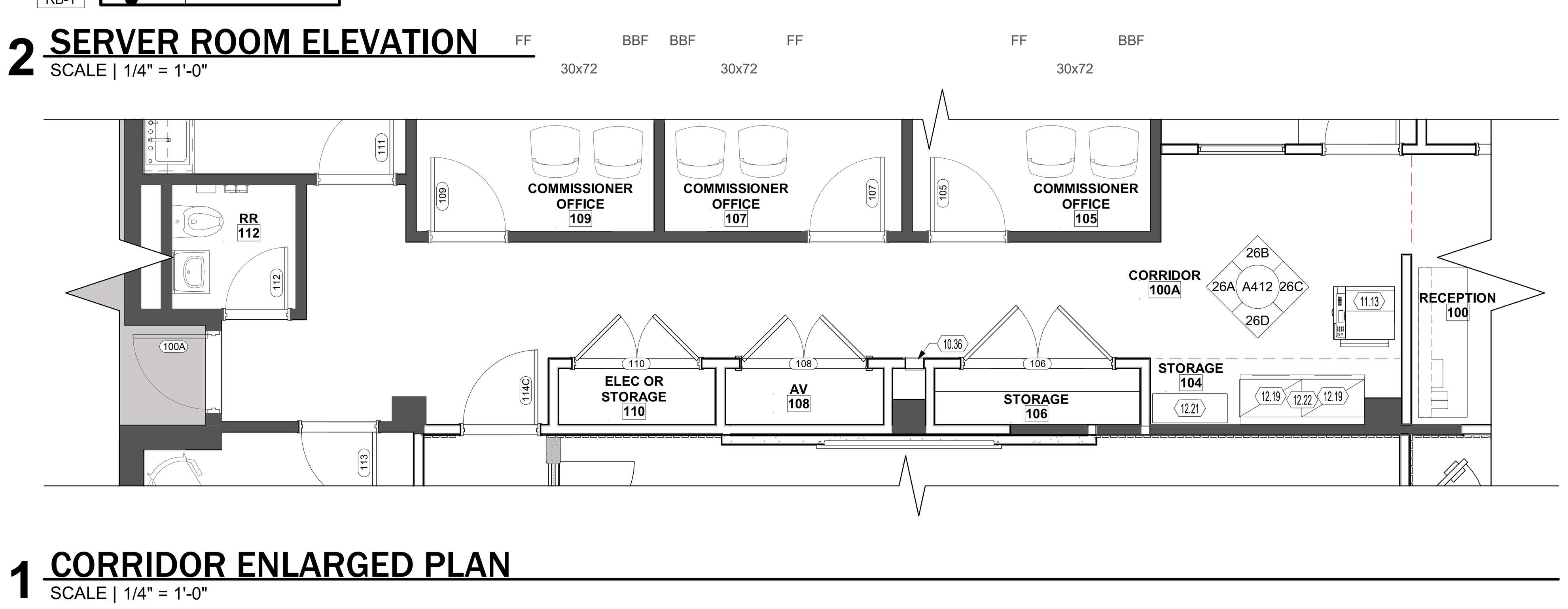
13 DIAS ACCENT WALL ELEVATION
SCALE | 1/4" = 1'-0"



12 SERVER ROOM ELEVATION
SCALE | 1/4" = 1'-0"



26 CORRIDOR ELEVATIONS
SCALE | 1/4" = 1'-0"



11 CORRIDOR ENLARGED PLAN
SCALE | 1/4" = 1'-0"

GENERAL NOTES - ELEVATIONS

A. SEE G-002 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS AND DIMENSIONS.

B. SEE FINISH PLANS FOR ALL SCHEDULED FINISHES. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.

C. PRIOR TO GYPSUM BOARD INSTALL ALL EXPOSED PENETRATIONS SHALL BE REVIEWED BY OWNER/ARCHITECT.

D. PRIOR TO GYPSUM BOARD INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL/DATA CONTRACTORS, AND ARCHITECT SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.

E. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF ELECTRICAL, PLUMBING AND MECHANICAL DEVICES WITH THE ARCHITECTURAL ITEMS. ELECTRICAL PLUMBING AND MECHANICAL DEVICES ARE TYPICALLY SHOWN SCHEMATICALLY ON THE PME DRAWINGS AND NOT INTENDED TO REPRESENT THEIR SPECIFIC LOCATION. REVIEW ARCHITECTURAL DRAWINGS FOR WALL MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

CASEWORK KEY

WALL CABINETS

W # # X
- MODIFIER
- CABINET WIDTH (INCHES)
- CABINET HEIGHT (INCHES)
- CABINET TYPE

BASE CABINETS

B # X
- MODIFIER
- CABINET WIDTH (INCHES)
- CABINET TYPE

CABINET TYPE
W - WALL CABINET
B - BASE CABINET
TC - TALL CABINET
DB - DRAWER BASE
SB - SINK BASE
MC - MICROWAVE CABINET
CH - TALL TEACHER CABINET
C - STUDENT CUBBIES

MODIFIER
A - ADA HEIGHTS
D - WITH DRAWER
L - LOCKABLE
X - DATA CABINET
R - ADA HEIGHT WITH DRAWER
C - CORNER UNIT
N - ADA HEIGHT CORNER UNIT
S - DESK HEIGHT CORNER UNIT

##.## KEYNOTES

2.38	EXISTING FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION.
2.45	REMOVE AND SALVAGE EXISTING FURNITURE DURING CONSTRUCTION.
2.50	EXISTING OFFICE CASEWORK TO REMAIN. PROTECT DURING CONSTRUCTION.
2.52	EXISTING CROWN MOLDING TO REMAIN. PROTECT DURING CONSTRUCTION.
2.53	EXISTING CHAIR RAIL TO REMAIN. PROTECT DURING CONSTRUCTION.
2.54	EXISTING WALL BASE TO REMAIN. PROTECT DURING CONSTRUCTION.
2.55	REMOVE AND SALVAGE EXISTING FILE STORAGE FOR REINSTALLATION.
2.56	EXISTING SIGNAGE TO REMAIN.
5.01	CUSTOM, DECORATIVE METAL TRIM OVER OWNER PROVIDED AGENDA MONITOR. PROVIDE PARQUET VENTILATION PERFORATIONS TO AND BOTTOM. COORDINATE SIZE WITH AGENDA MONITOR.
6.12	STAINED WOOD TRANSOM PANEL.
9.27	WOOD PLANK ACOUSTIC CEILING PANEL. SEE FINISH SCHEDULE.
10.36	FIRE EXTINGUISHER FULLY RECESSED CABINET.
10.48	EXISTING MIAMI COUNTY COMMISSIONERS PLAQUE.
10.49	EXISTING MIAMI COUNTY SEAL PLAQUE.
10.50	EXISTING AMERICAN FLAG POLE.
10.52	NEW 48" WIDE WALL MOUNTED BRONZE LOGO. MATCH COUNTY STANDARD. OWNER TO PROVIDE GRAPHIC FILE.
10.53	24" X 24" ACCESS PANEL.
11.02	EXISTING WALL MOUNTED NETWORK RACK TO REMAIN. SEE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR OTHER REQUIREMENTS
11.13	COPIER PROVIDED AND INSTALLED BY OWNER.
11.18	WALL MOUNTED 75" TELEVISION BY OWNER - PROVIDE POWER AND BLOCKING AS REQUIRED.
12.19	LOOSE FILE STORAGE UNIT BY OWNER. SHOWN FOR COORDINATION.
12.21	LOOSE BOOKSHELF BY OWNER. SHOWN FOR COORDINATION
12.22	WALL MOUNTED SYSTEMS FURNITURE WORKSURFACE AND SUPPORTS BY OWNER.
28.01	CARD READER COORDINATE WITH TECHNOLOGY PROVIDER - SEE ELECTRICAL DRAWINGS.

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

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10/03/2025

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KLH ENGINEERS

MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

MIAMI COUNTY COMMISSIONERS OHIO

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INTERIOR ELEVATIONS

A412

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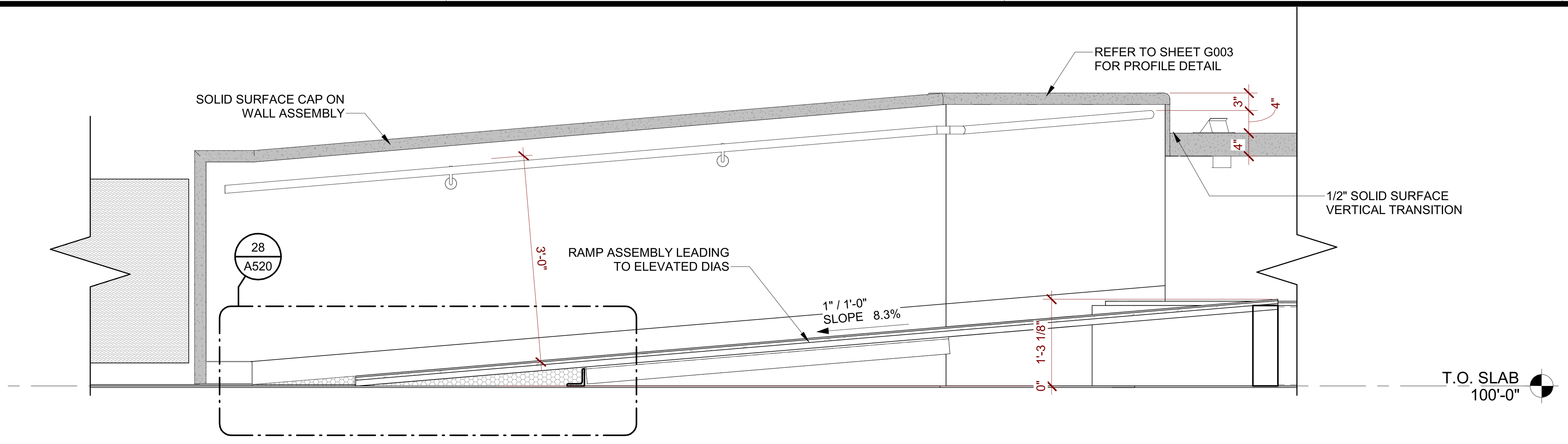
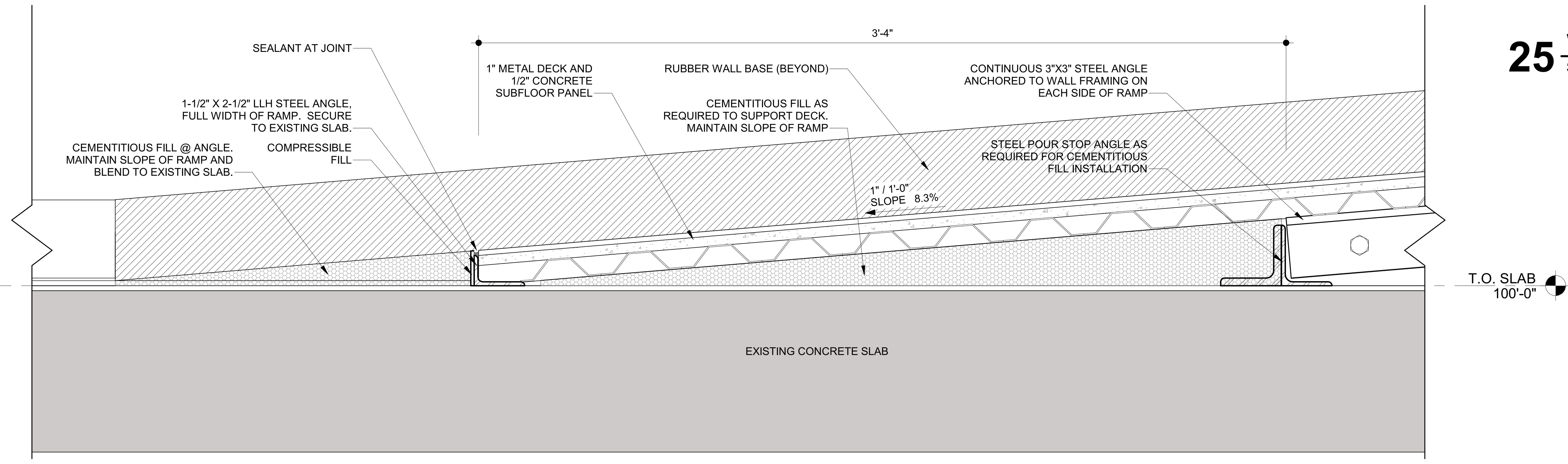
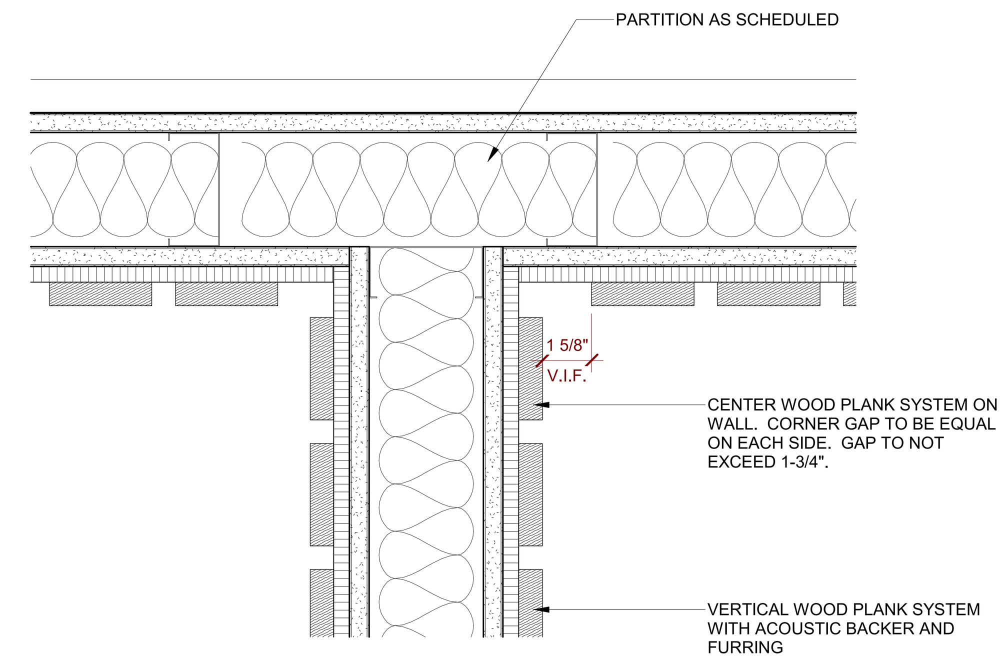


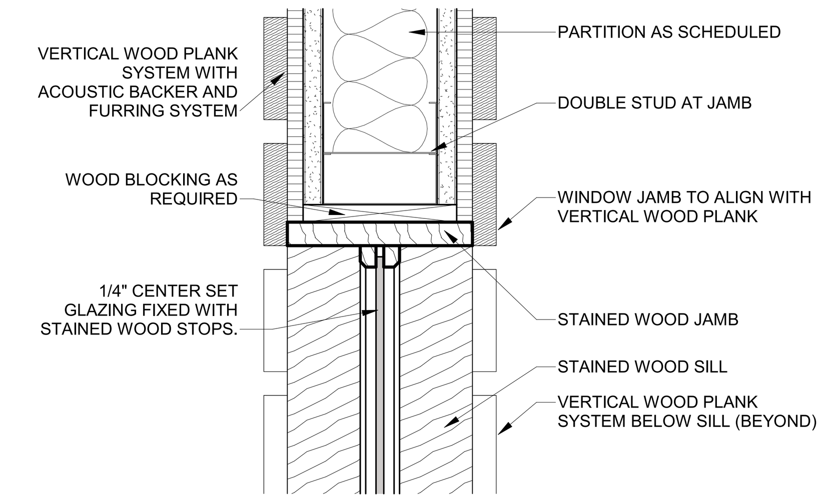
30 DIAS RAMP SECTION
SCALE | 3/4" = 1'-0"



28 DIAS RAMP START
SCALE | 3" = 1'-0"



25 WOOD PANEL CORNER DETAIL
SCALE | 3" = 1'-0"



23 VESTIBULE WINDOW DETAIL
SCALE | 3" = 1'-0"

CASEWORK KEY

WALL CABINETS

W # # X
- MODIFIER
- CABINET WIDTH (INCHES)
- CABINET HEIGHT (INCHES)
- CABINET TYPE

BASE CABINETS

B # X
- MODIFIER
- CABINET WIDTH (INCHES)
- CABINET TYPE

CABINET TYPE
- W - WALL CABINET
- B - BASE CABINET
- TC - TALL CABINET
- DB - DRAWER BASE
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- MC - MICROWAVE CABINET
- CH - TALL TEACHER CABINET
- C - STUDENT CUBBIES

MODIFIER
- A - ADA HEIGHTS
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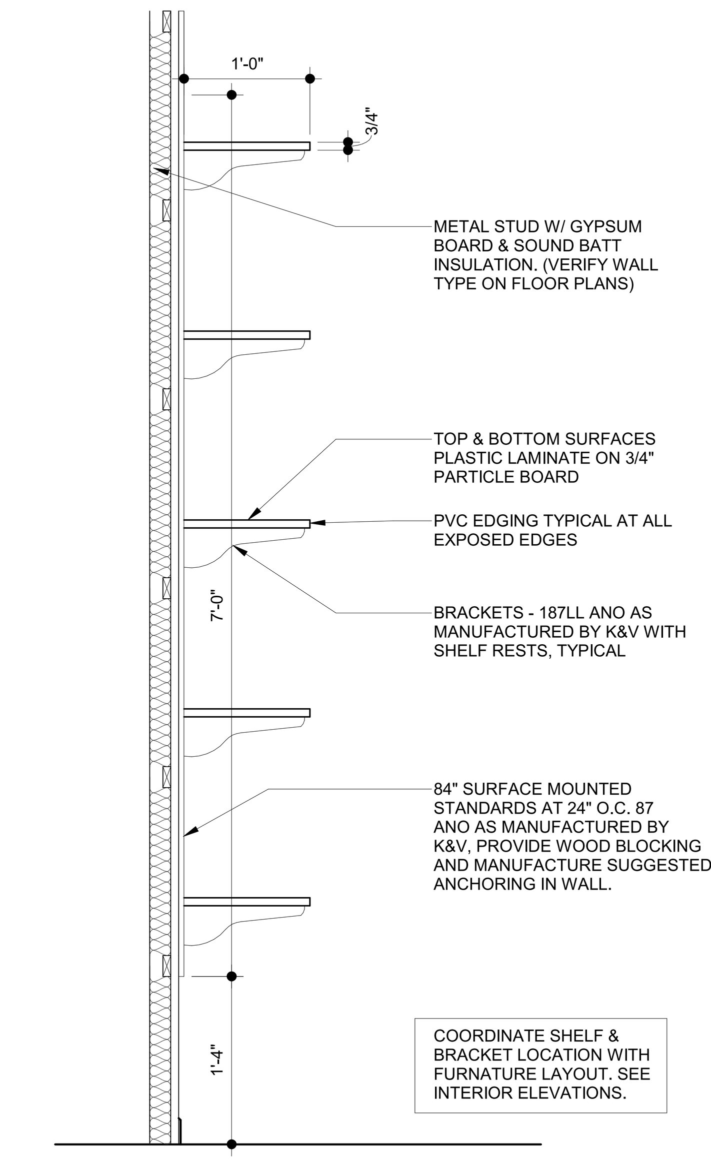
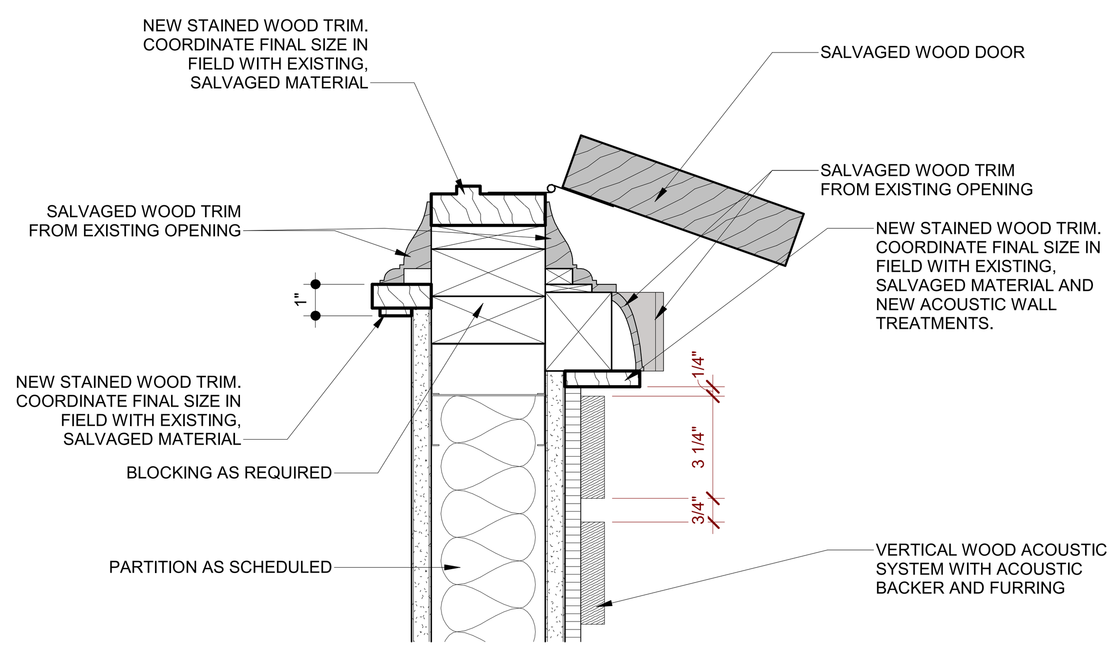
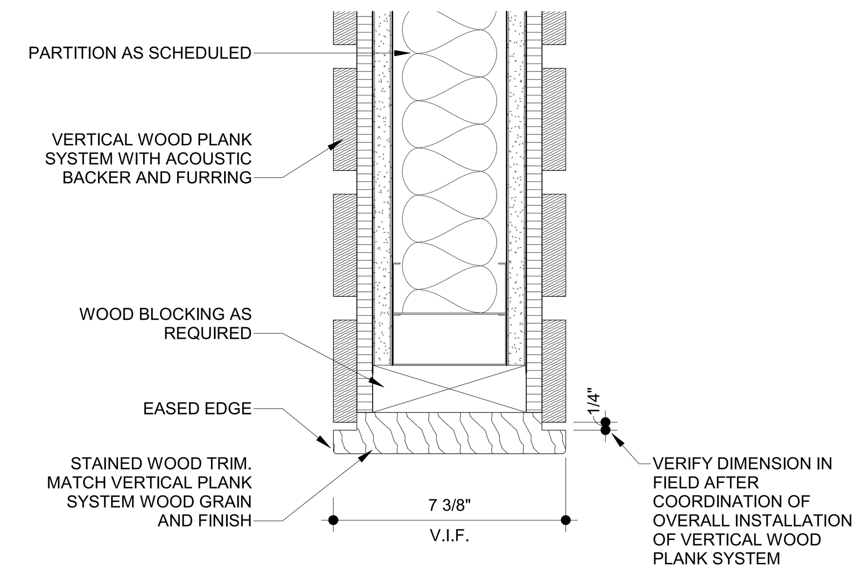
- N - ADA HEIGHT CORNER UNIT
- S - DESK HEIGHT CORNER UNIT



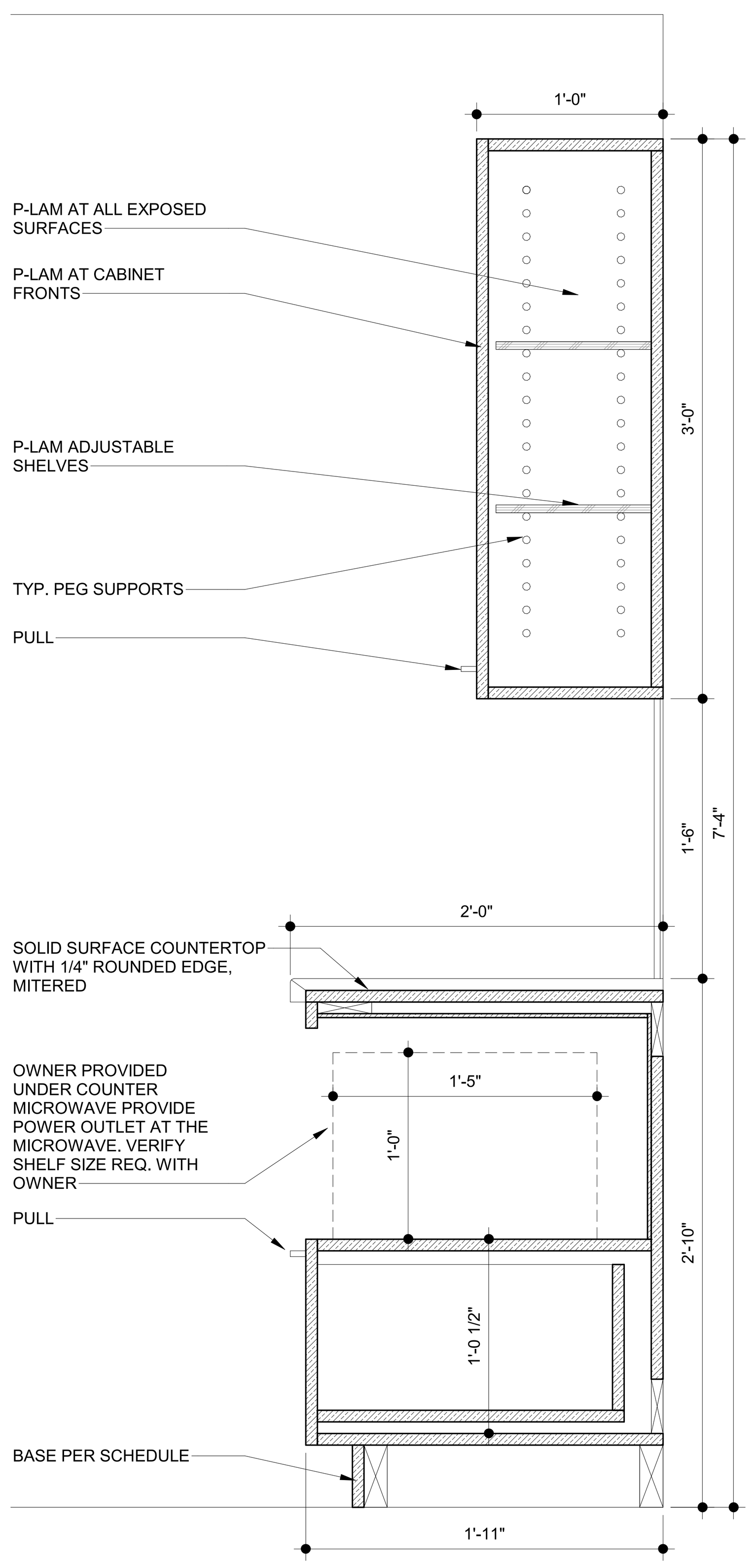
2 ADJUSTABLE SHELVES
SCALE | 1" = 1'-0"



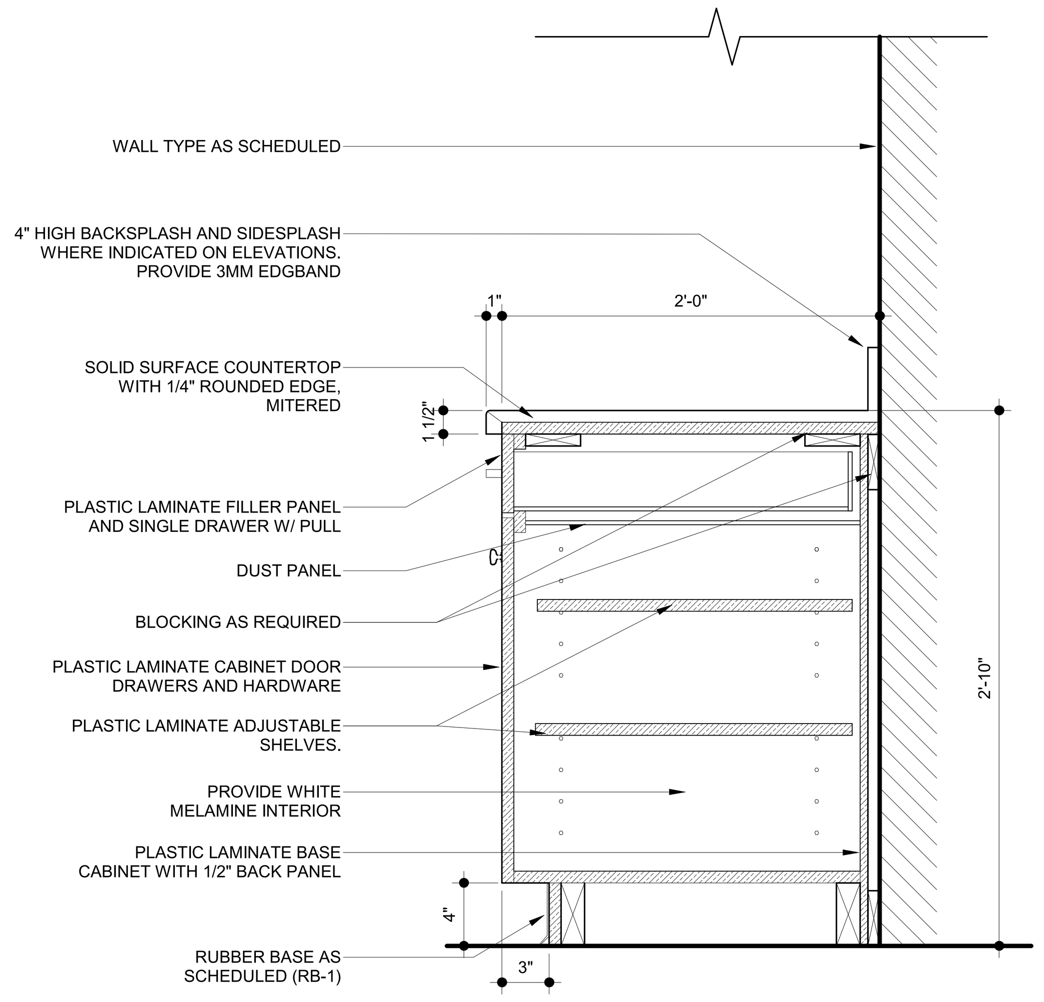
22 SALVAGED HEARING DOOR DETAIL
SCALE | 3" = 1'-0"



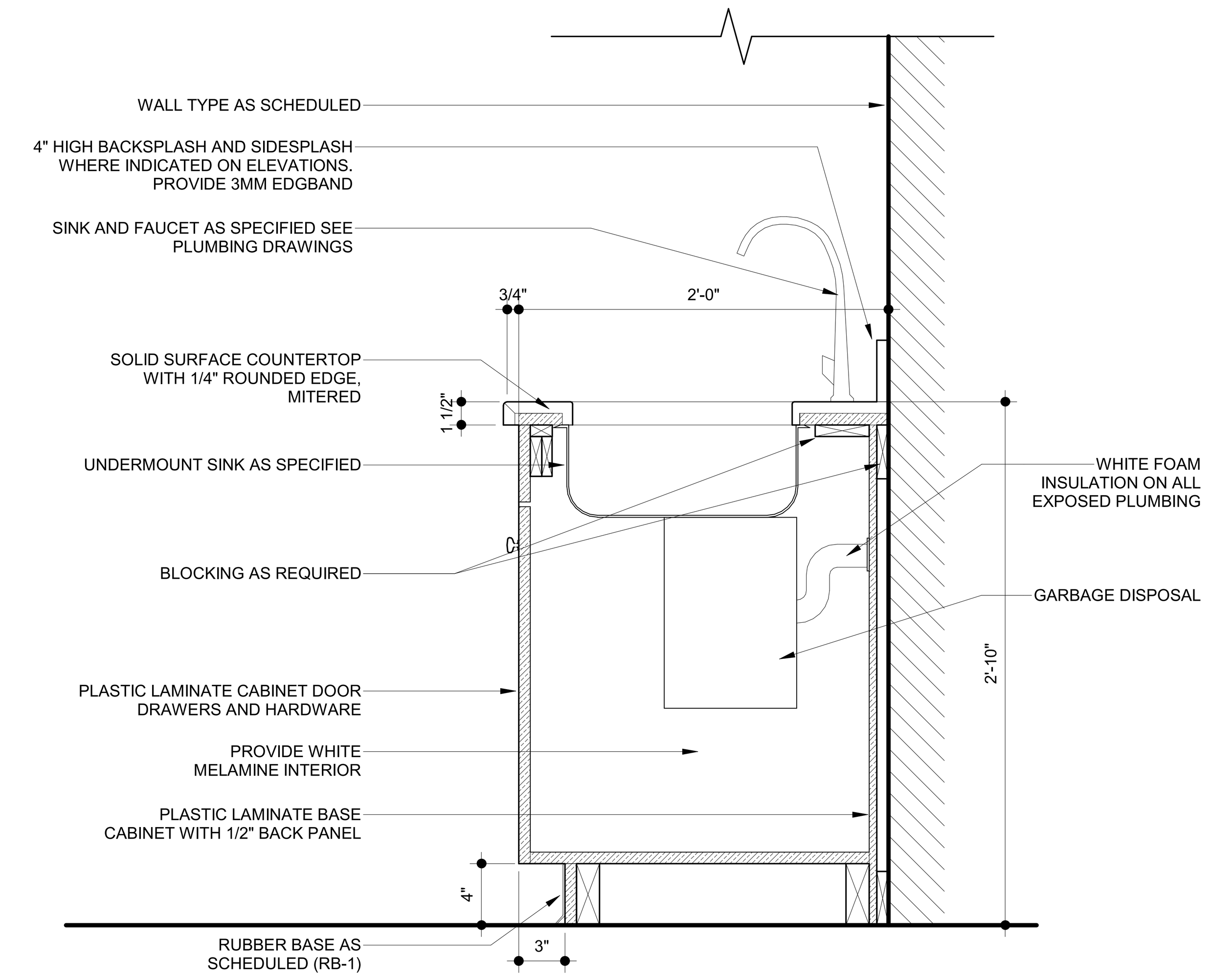
12 WALL END CAP DETAIL
SCALE | 3" = 1'-0"



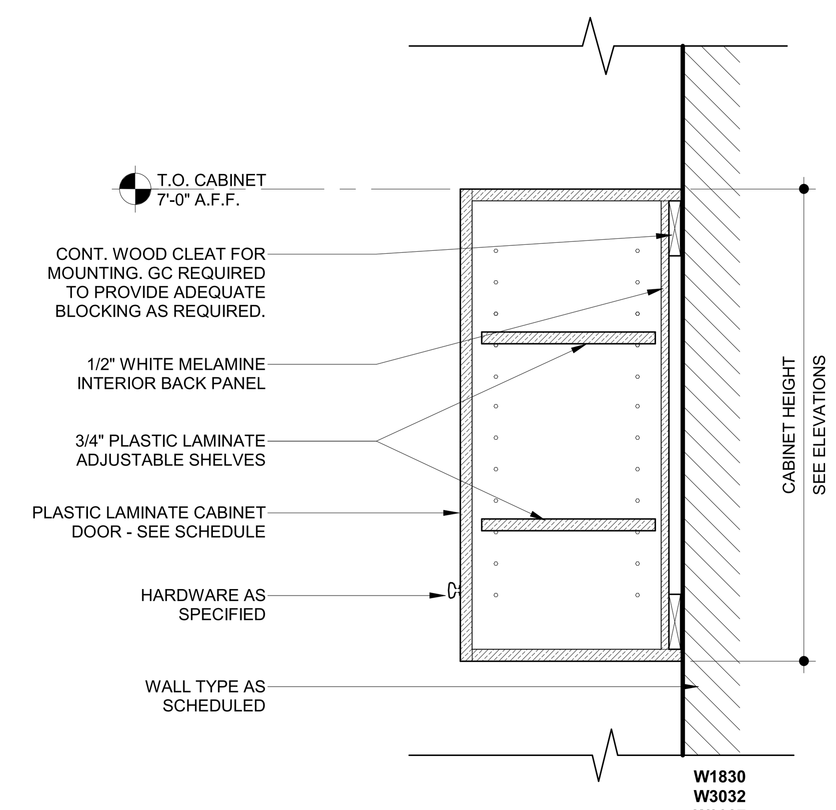
26 UNDER COUNTER MICROWAVE
SCALE | 1 1/2" = 1'-0"



21 BASE CABINET W/ DOOR AND DRAWER
SCALE | 1 1/2" = 1'-0"



11 BASE CABINET W/ SINK
SCALE | 1 1/2" = 1'-0"



1 WALL CABINET
SCALE | 1 1/2" = 1'-0"

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

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CONSULTANTS
KLH ENGINEERS

MIAMI COUNTY
COMMISSIONER'S HEARING ROOM RENOVATION

MIAMI COUNTY COMMISSIONERS OHIO

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

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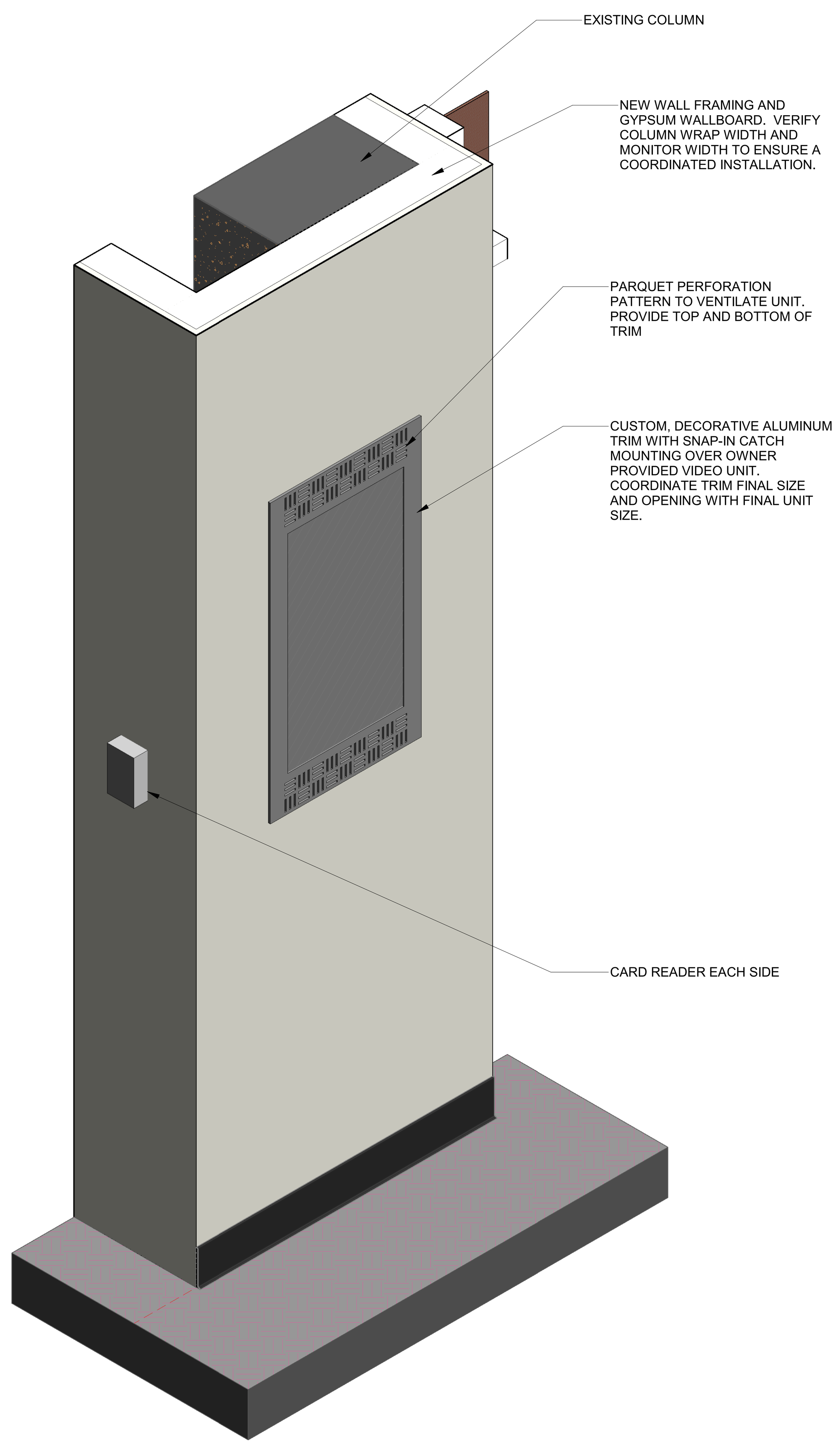
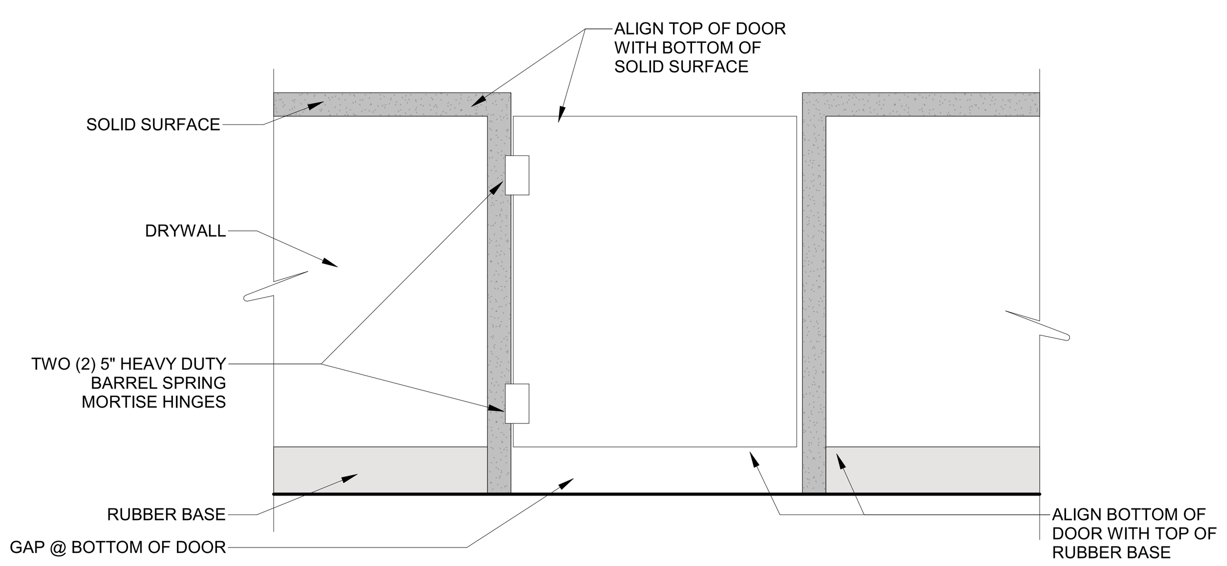
INTERIOR & CASEWORK DETAILS

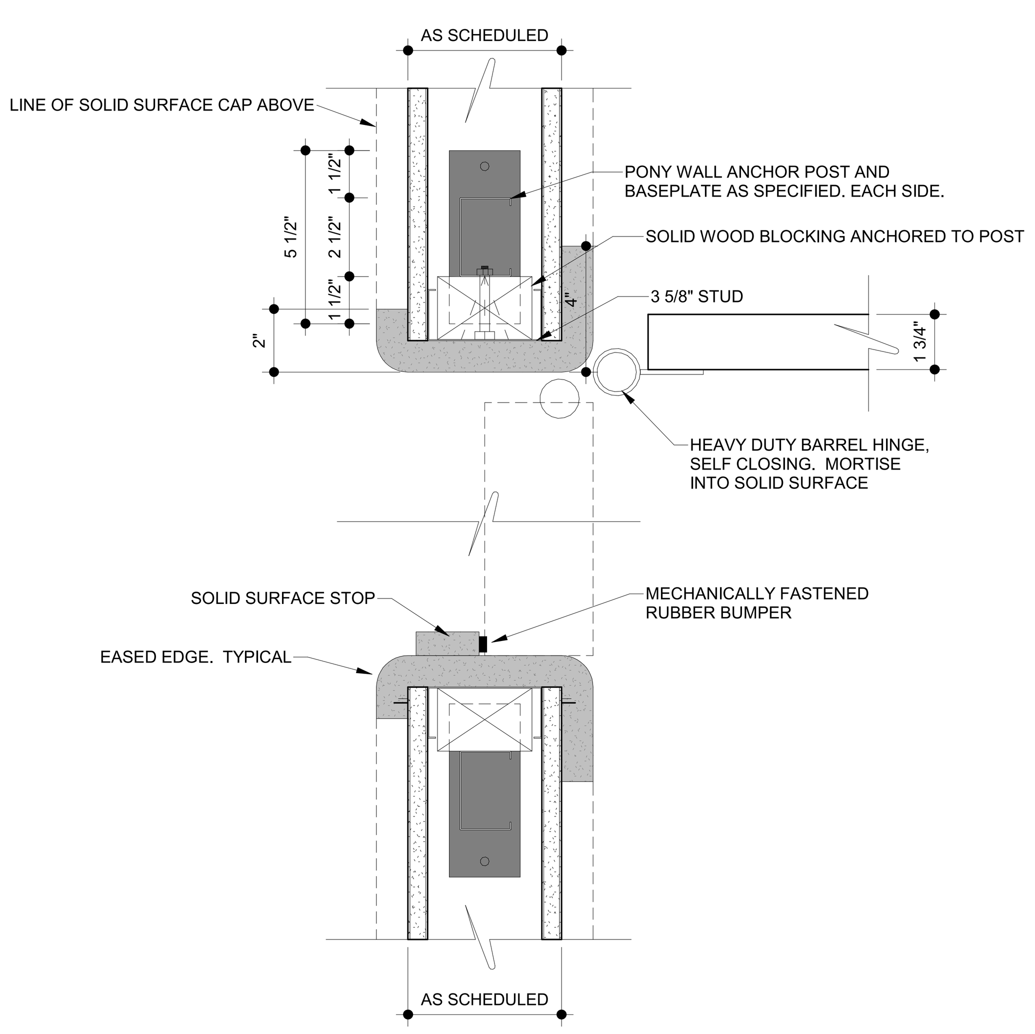
A520



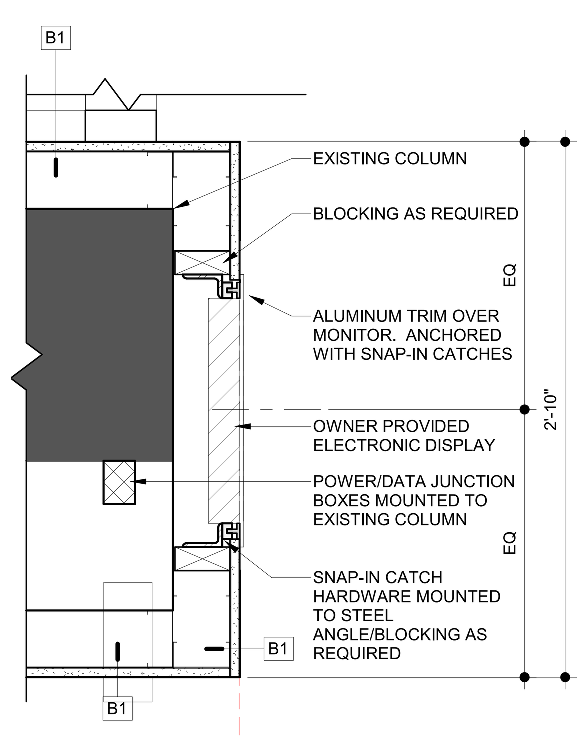
1 AGENDA MONITOR WITH TRIM
SCALE |



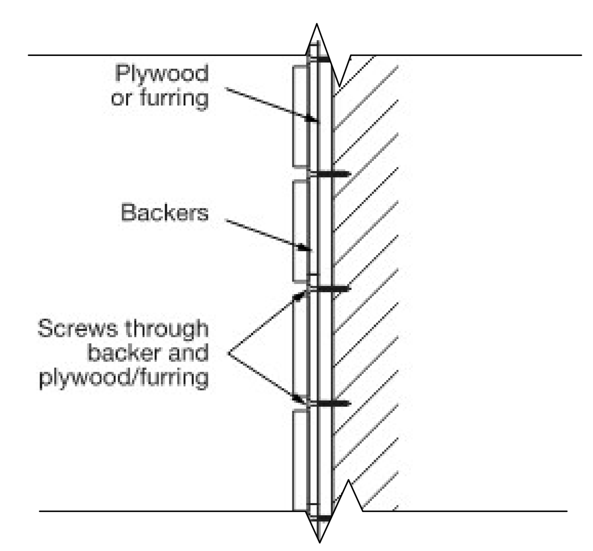
HALF DOOR ELEVATION (RAMP SIDE)
SCALE | NOT TO SCALE



26 HALF DOOR DETAIL
SCALE | 3" = 1'-0"



16 CORRIDOR COLUMN WRAP DETAIL
SCALE | 1 1/2" = 1'-0"



11 WOOD WALL INSTALL
SCALE | 3" = 1'-0"

12/23/2025 10:20:05 AM

STATE OF OHIO
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13215
REGISTERED ARCHITECT

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MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

MIAMI COUNTY COMMISSIONERS OHIO — HOME. GROWN. GREAT.

PROJECT NO: **248698.00**
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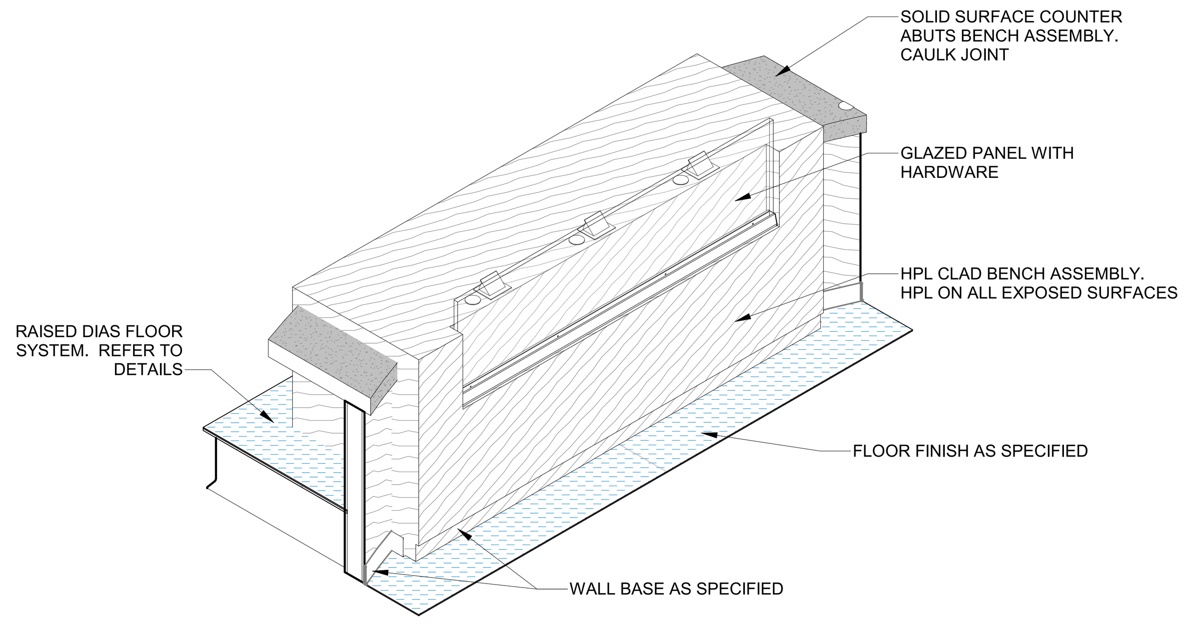
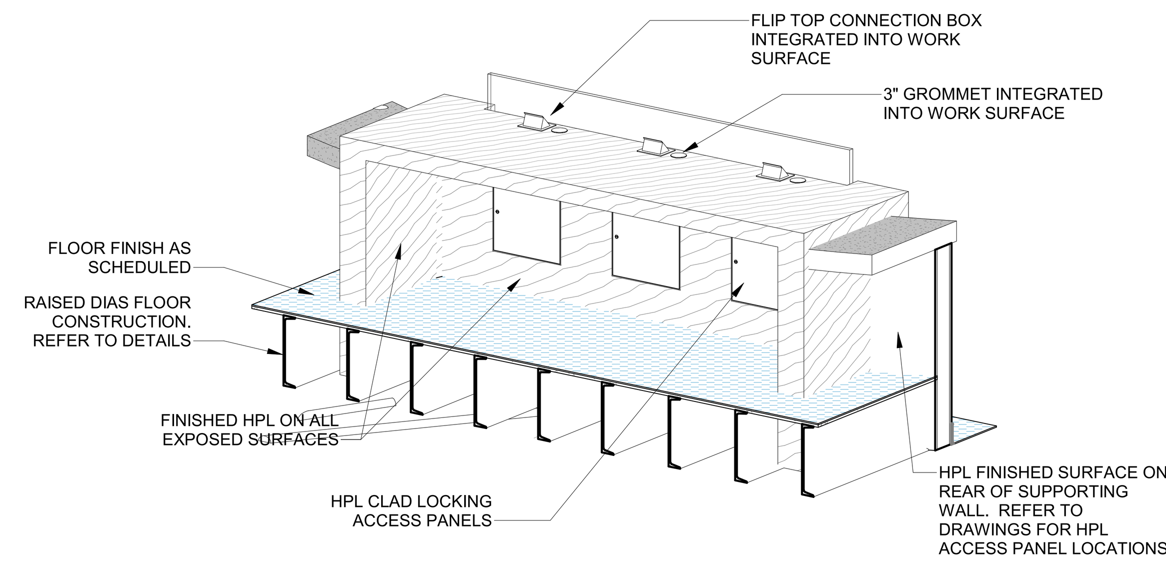
INTERIOR DETAILS

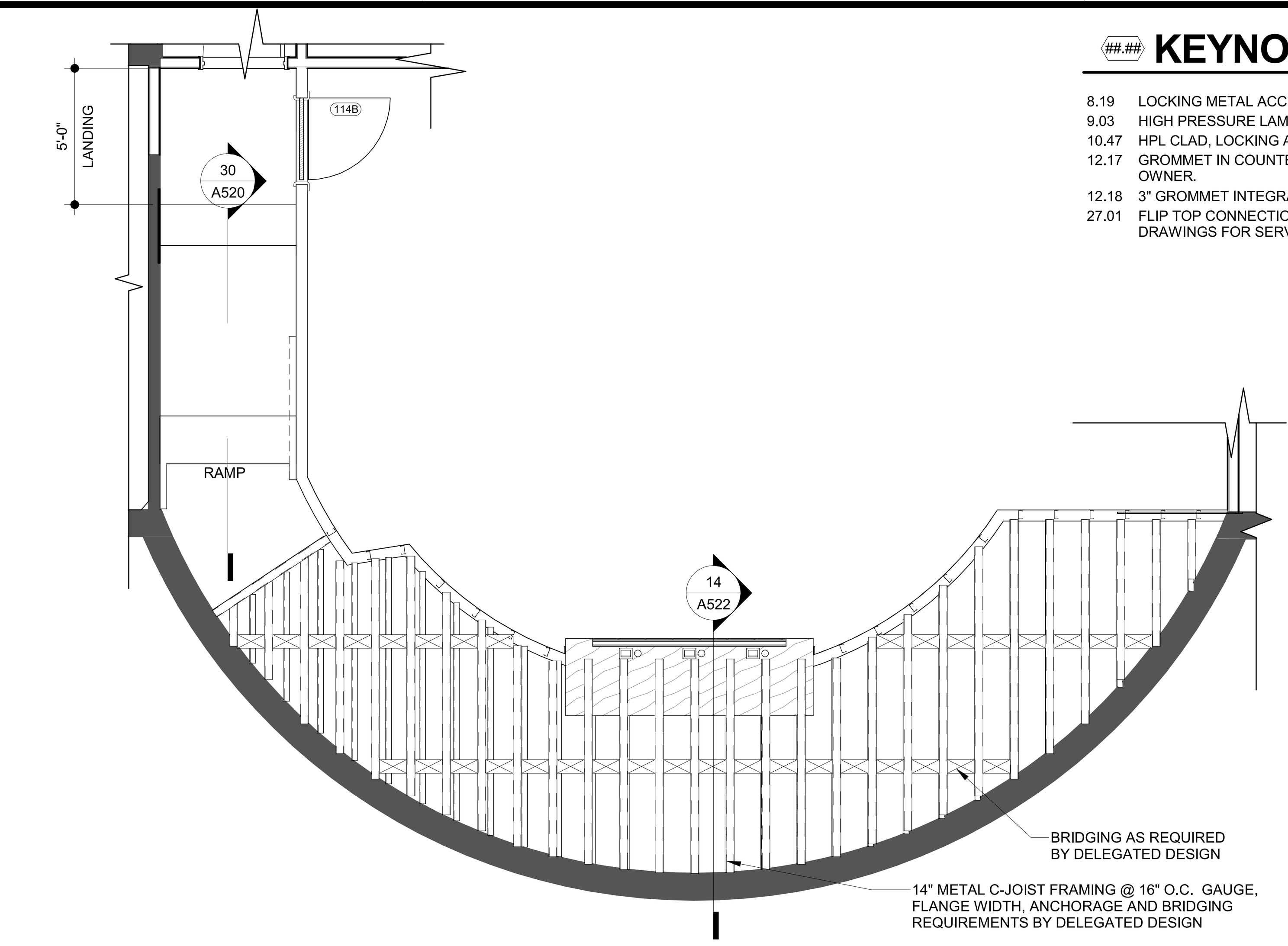
A521



29 3D - BENCH ISOMETRIC - FRONT
SCALE |



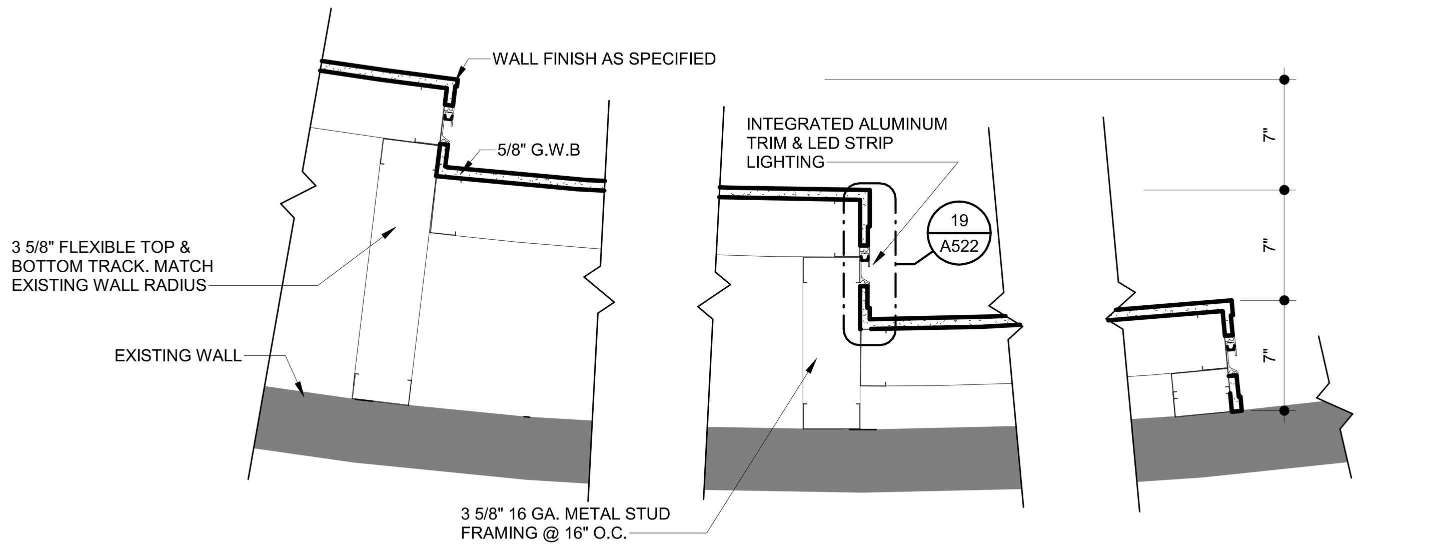
20 3D - BENCH ISOMETRIC - REAR
SCALE |



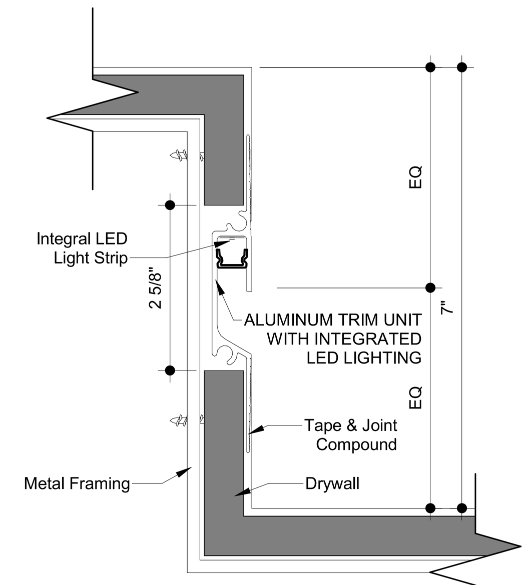
15 DIAS FRAMING DETAIL
SCALE | 1/4" = 1'-0"

KEYNOTES

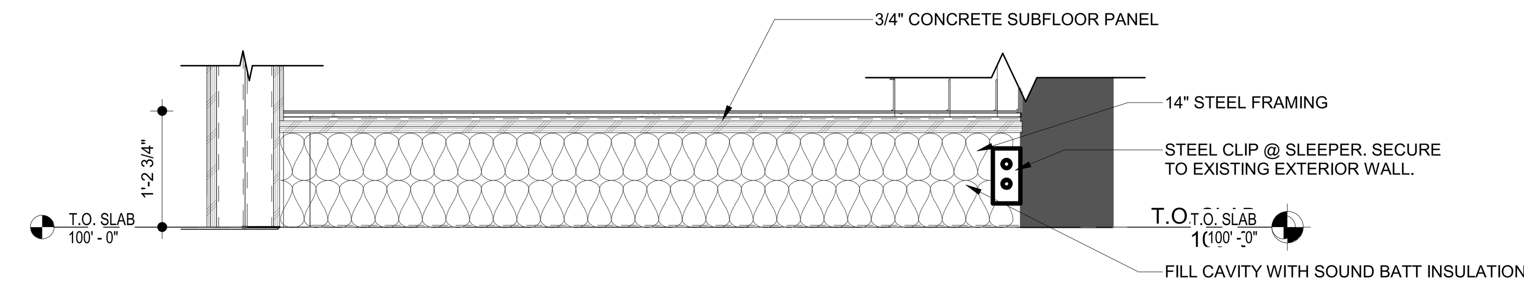
8.19	LOCKING METAL ACCESS DOOR. INSTALL WALL TREATMENT OVER DOOR AS FINISH.
9.03	HIGH PRESSURE LAMINATE WORK SURFACE
10.47	HPL CLAD, LOCKING ACCESS PANEL BENEATH WORK SURFACE.
12.17	GROMMET IN COUNTERTOP, COORDINATE FINAL LOCATION IN THE FIELD WITH OWNER.
12.18	3" GROMMET INTEGRATED INTO WORKSURFACE.
27.01	FLIP TOP CONNECTION BOX INTEGRATED INTO COUNTERTOP, REFER TO RELATED DRAWINGS FOR SERVICES PROVIDED AT EACH LOCATION



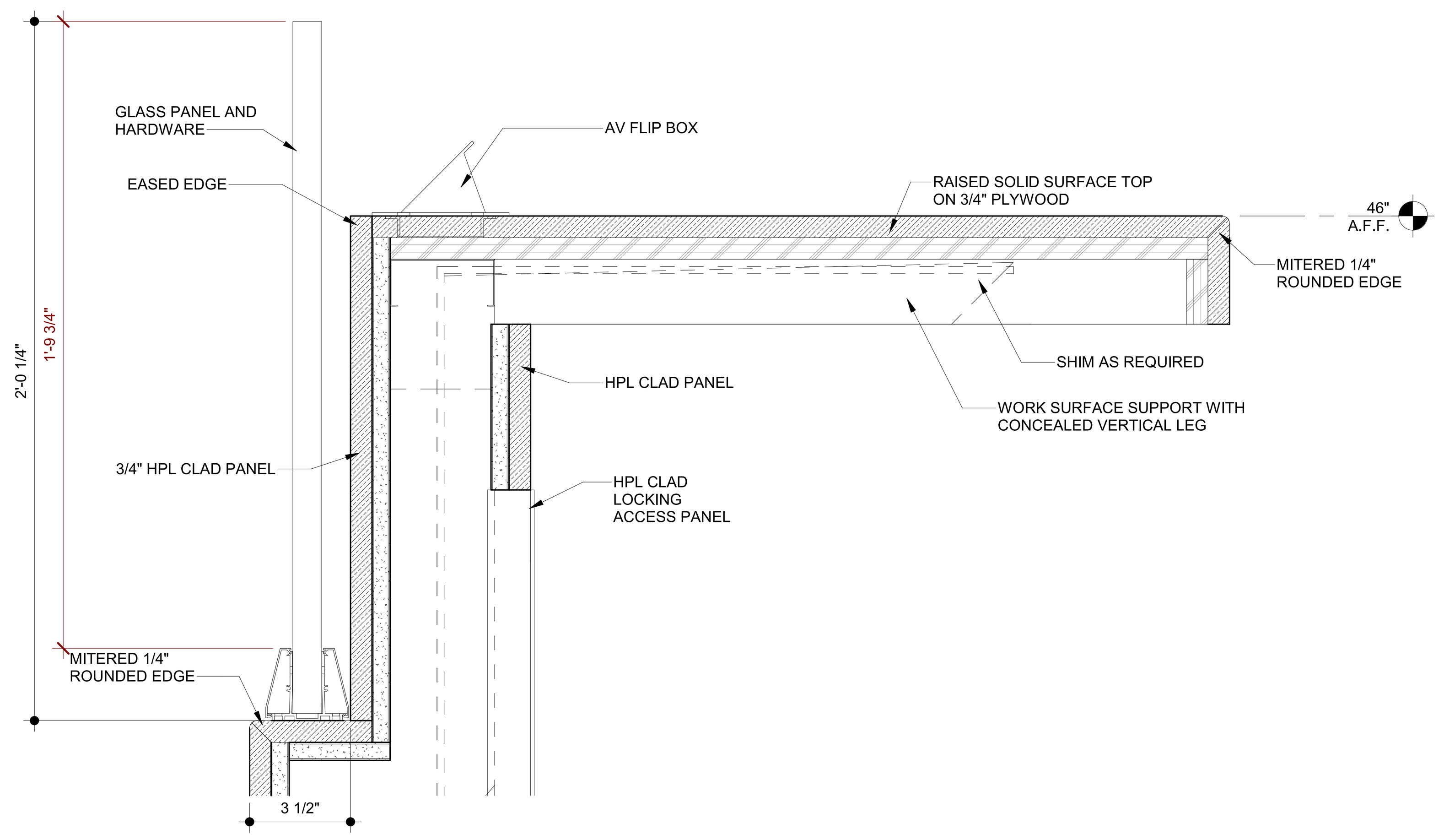
28 DAIS ACCENT WALL DETAIL
SCALE | 1 1/2" = 1'-0"



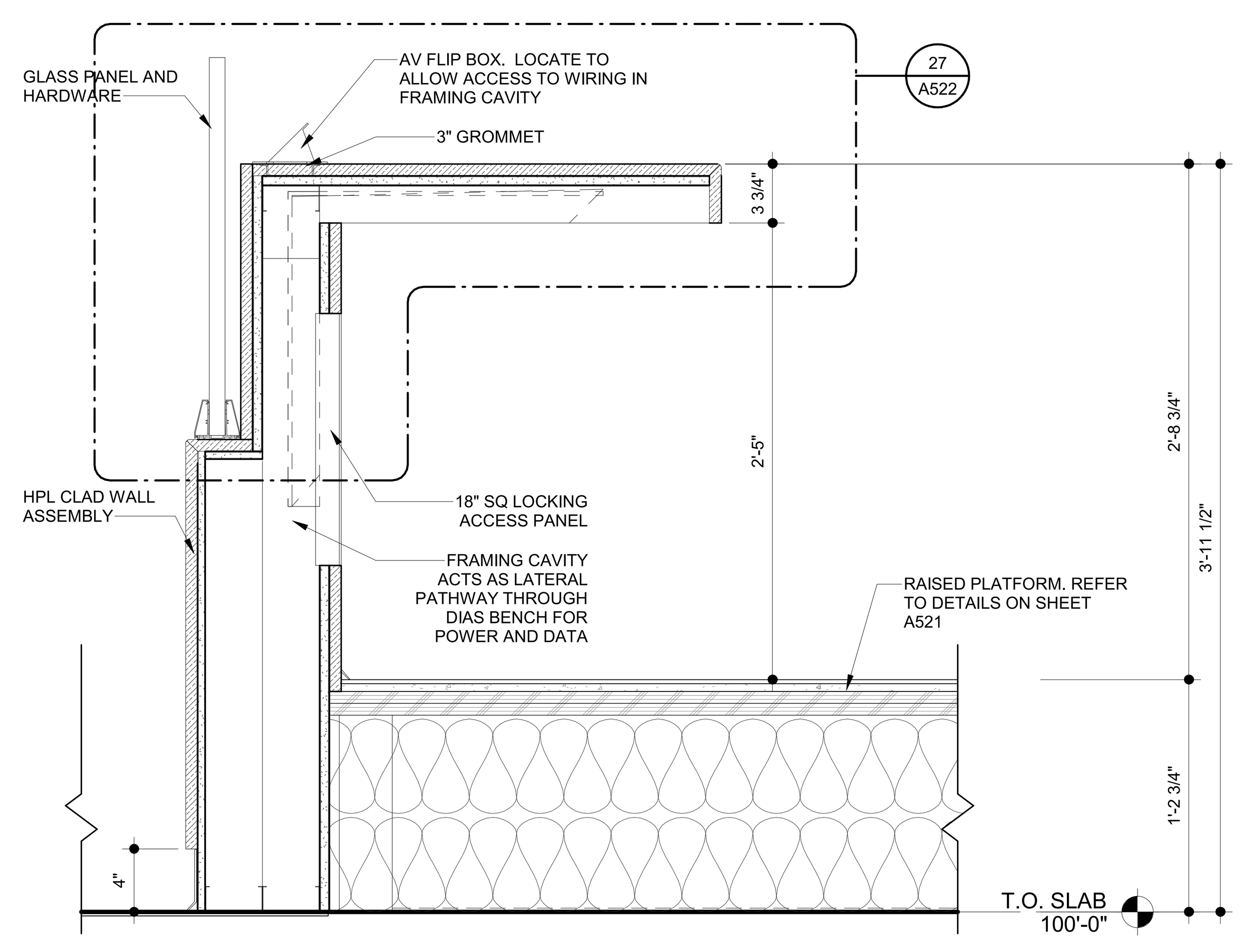
19 INTEGRATED LED LIGHTING
SCALE | 6" = 1'-0"



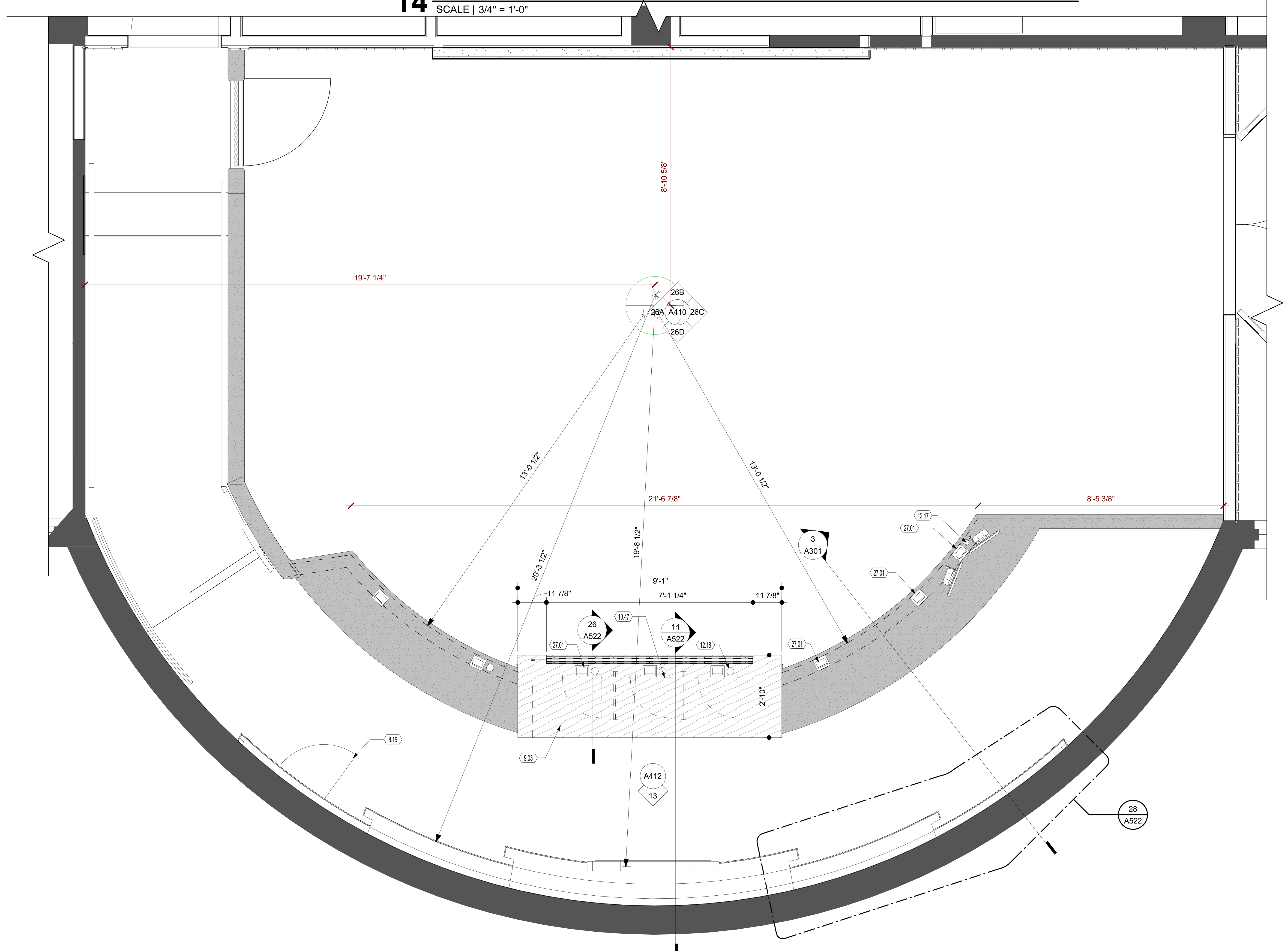
14 RAISED FLOOR SECTION
SCALE | 3/4" = 1'-0"



27 BENCH WORKSURFACE ENLARGED SECTION
SCALE | 3" = 1'-0"



26 BENCH ENLARGED SECTION DETAIL
SCALE | 1 1/2" = 1'-0"



16 DAIS ENLARGED PLAN
SCALE | 1/2" = 1'-0"

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STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
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MIAMI COUNTY
COMMISSIONER'S HEARING ROOM RENOVATION

MIAMI COUNTY COMMISSIONERS OHIO

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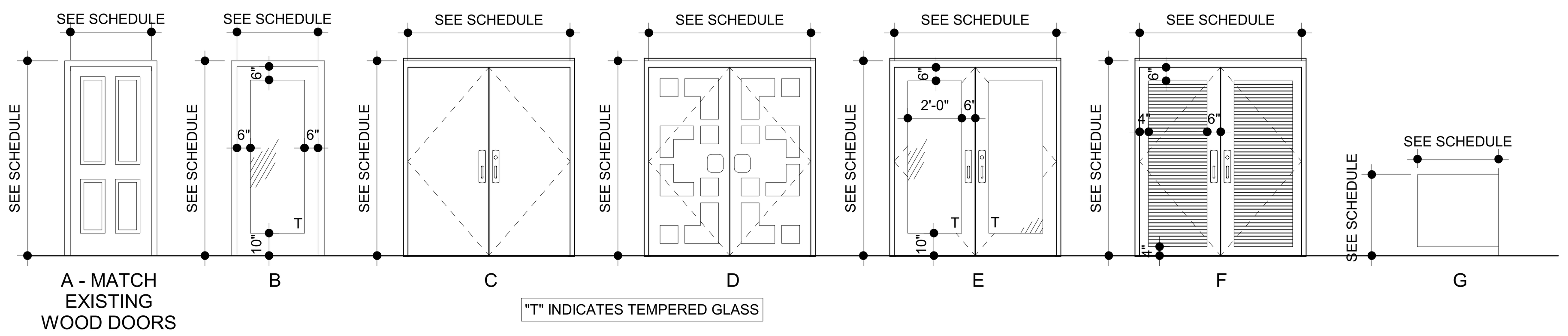
DIAS DETAILS
A522

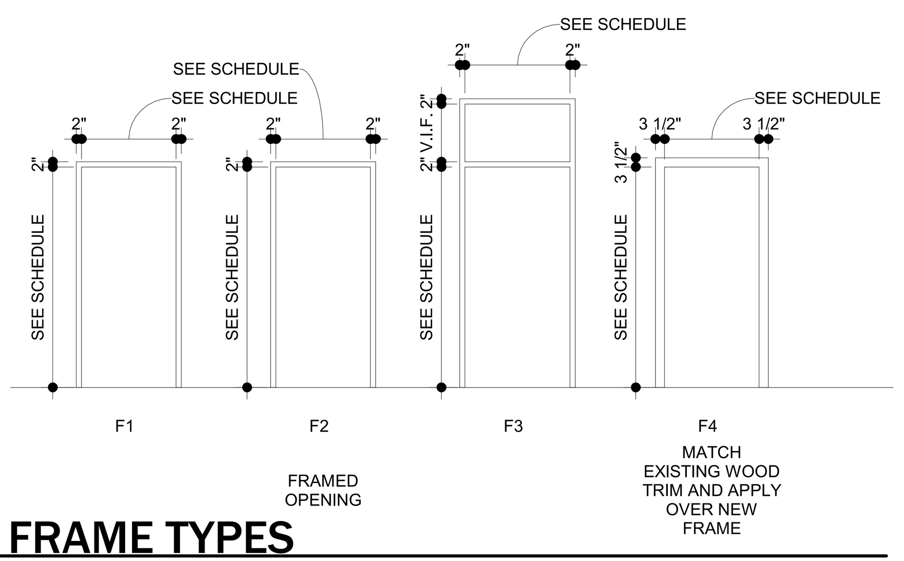
12/23/2025 10:20:08 AM

DOOR SCHEDULE

DR #	ROOM #	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	Door-Hardware Set	ACCESS CONTROL	NOTES
100	100	B	3' - 0"	6' - 7"	1 3/4"	WOOD	F3	ALUMINUM	5	YES	+ WOOD PANEL TRANSOM
100A	100A	A	3' - 0"	7' - 0"	1 3/4"	HM	EXISTING		7		EXISTING
101	101	A	3' - 0"	7' - 0"	1 3/4"	WOOD	F4	HM	7		SALVAGED EXISTING DOOR
102	100	N/A	3' - 0"	7' - 0"	1 3/4"		F2	HM	N/A		PROVIDE TRIM OVER FRAME
103	103	A	3' - 0"	7' - 0"	1 3/4"	WOOD	F4	HM	2		SALVAGED EXISTING DOOR
105	105	A	3' - 0"	7' - 0"	1 3/4"	WOOD	EXISTING		7		EXISTING
106	106	C	6' - 0"	7' - 0"	1 3/4"	WOOD	F1	HM	3		
107	107	A	3' - 0"	7' - 0"	1 3/4"	WOOD	EXISTING		7		EXISTING
108	108	F	5' - 0"	7' - 0"	1 3/4"	WOOD	F1	HM	3		
109	109	A	3' - 0"	7' - 0"	1 3/4"	WOOD	EXISTING		7		EXISTING
110	110	C	5' - 0"	7' - 0"	1 3/4"	WOOD	F1	HM	3		
111	111	A	3' - 0"	7' - 0"	1 3/4"	WOOD	EXISTING		7		EXISTING
112	112	A	2' - 6"	7' - 0"	1 3/4"	HM	EXISTING		7		EXISTING
113	113	A	3' - 0"	7' - 0"	1 3/4"	WOOD	F1	HM	7		SALVAGED EXISTING DOOR
114A	114	D	6' - 0"	7' - 6"	1 3/4"	WOOD	EXISTING		7		SALVAGED EXISTING DOOR
114B	114	G	3' - 0"	3' - 4"	1 3/4"	WOOD	N/A		4		SWINGING GATE
114C	114	A	3' - 0"	7' - 0"	1 3/4"	WOOD	F4	HM	1		SALVAGED EXISTING DOOR
115	115	E	6' - 0"	6' - 7"	1 3/4"	ALUMINUM	F3	ALUMINUM	6	YES	+ WOOD PANEL TRANSOM



DOOR TYPES



FRAME TYPES

SCALE | 1/4" = 1'-0"

DOOR HARDWARE SETS:

SET NO. 1: EACH DOOR TO HAVE
- 1-1/2 PR HINGES
- 1 EA. PANIC HARDWARE WITH INSIDE CRASH BAR - ENTRANCE FUNCTION WITH LEVER TRIM
- 1 EA. CLOSER
- 1 EA. KICKPLATE
- 1 EA. WEATHERSEALS
- 1 EA. WALL STOP
- 3 EA. FRAME SILENCERS

SET NO. 2: EACH DOOR TO HAVE
1. 1-1/2 PR HINGES
2. 1 EA. LOCKSET (OFFICE FUNCTION) CYLINDRICAL LEVER SERIES
3. 1 EA WALL STOP
4. 3 EA. FRAME SILENCERS

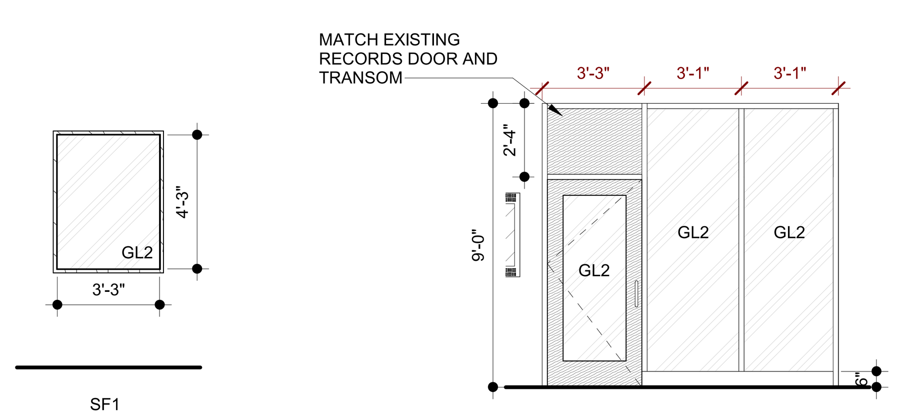
SET NO. 3: EACH PAIR OF DOORS TO HAVE
1. 3 PR HINGES
2. 1 EA. LOCKSET (STORAGE FUNCTION) CYLINDRICAL LEVER SERIES, ACTIVE LEAF
3. 1 SET TOP AND BOTTOM MANUAL FLUSH BOLTS, INACTIVE LEAF
4. 3 EA. FRAME SILENCERS

SET NO. 4: EACH DOOR TO HAVE
1. 1-1/2 PR HEAVY-DUTY DOUBLE ACTING SPRING HINGES
2. 1 SET SILENCERS

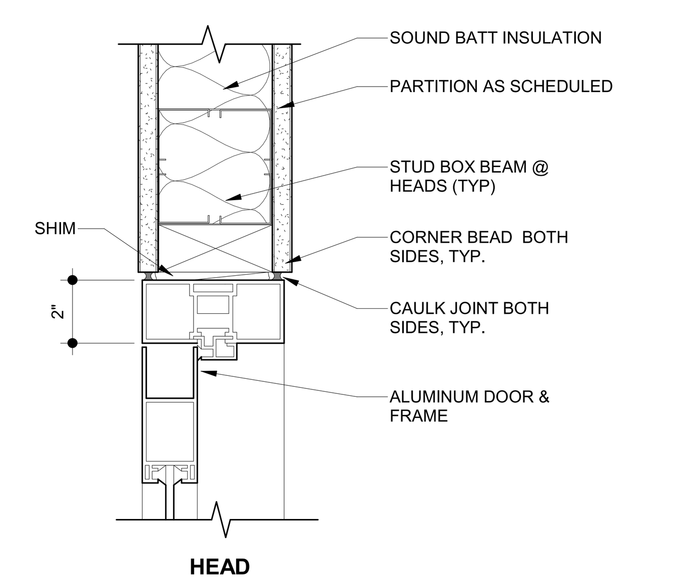
SET NO. 5: EACH DOOR TO HAVE
1. 2 PR HINGES
2. 1 EA. LOCKSET (OFFICE FUNCTION) CYLINDRICAL LEVER SERIES
3. 1 EA ELECTRIC STRIKE
4. 1 EA CLOSER (RA)
5. 1 EA WALL STOP
6. 1 EA CARD READER (PROVIDED BY OWNER)
7. 1 EA POWER SUPPLY
8. 1 EA DOOR POSITION SWITCH
9. 1 SET SILENCERS

SET NO. 6: EACH PAIR OF DOORS TO HAVE
1. (OFFICE AREA)
2. 3 PR HINGES
3. 2 EA EXIT DEVICE CVR (LEVER)
4. 2 CLOSER (PA) WITH HOLD OPEN
5. 2 KICKPLATES
6. 1 POWER SUPPLY
7. 2 POWER TRANSER
8. 1 CARD READER (PROVIDED BY OWNER)
9. 2 SETS GASKETING
10. 2 SET SILENCERS

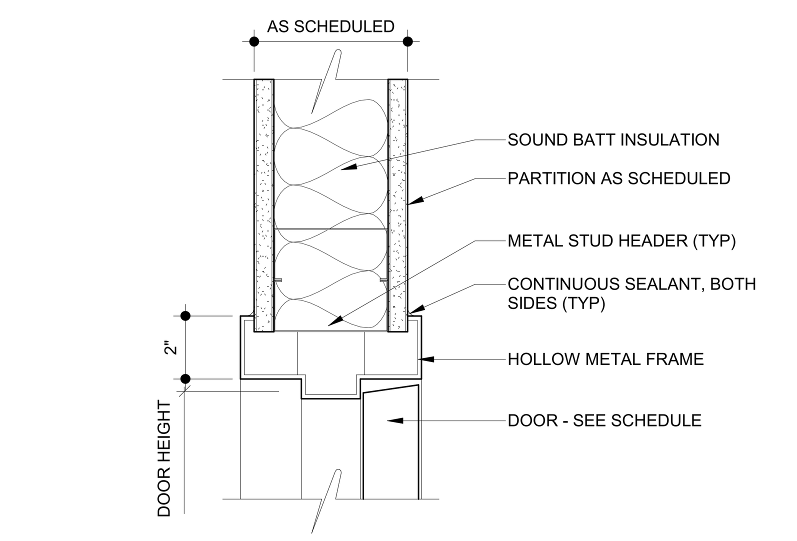
SET NO. 7: EACH DOOR TO HAVE
- SALVAGE AND RE-USE EXISTING HARDWARE



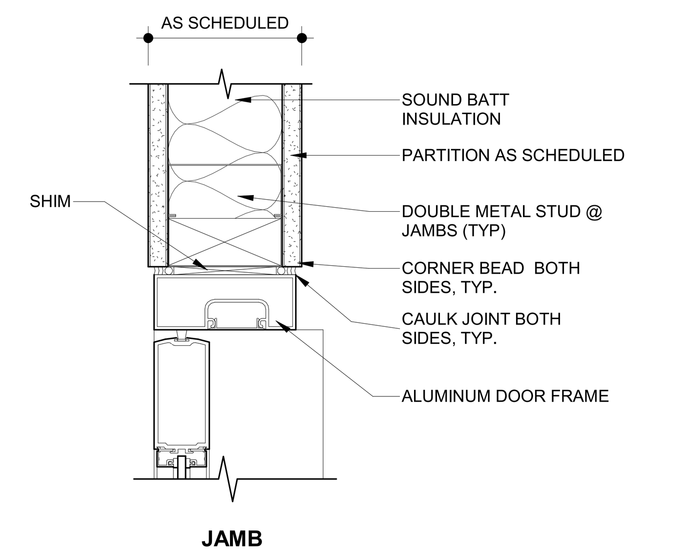
27 GLAZING ELEVATIONS
SCALE | 1/4" = 1'-0"



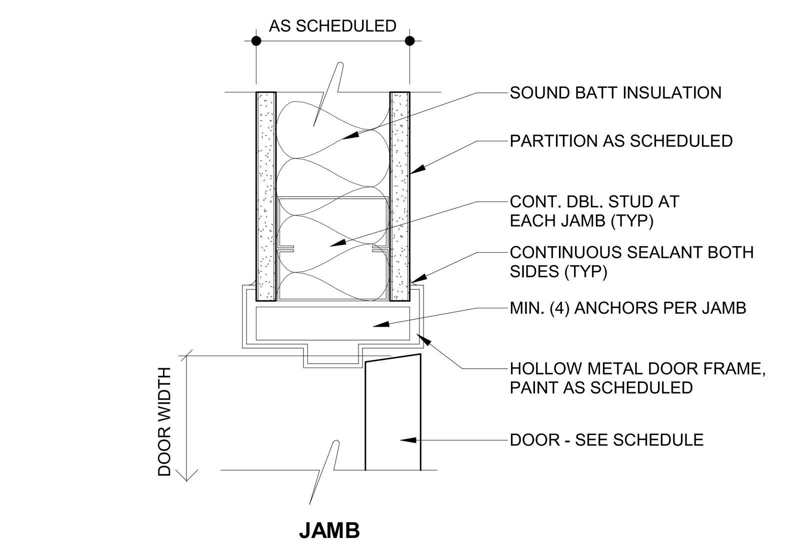
15 ALUM. DR HEAD @ INT. WALL
SCALE | 3" = 1'-0"



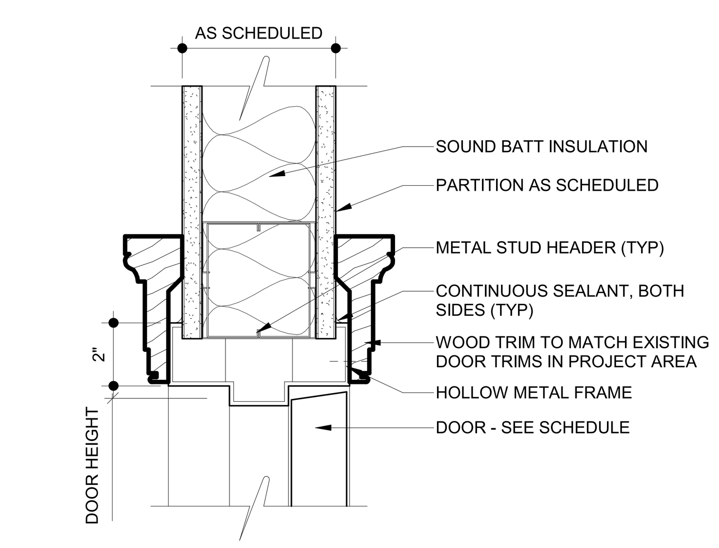
10 HM DOOR HEAD @ INTERIOR WALL
SCALE | 3" = 1'-0"



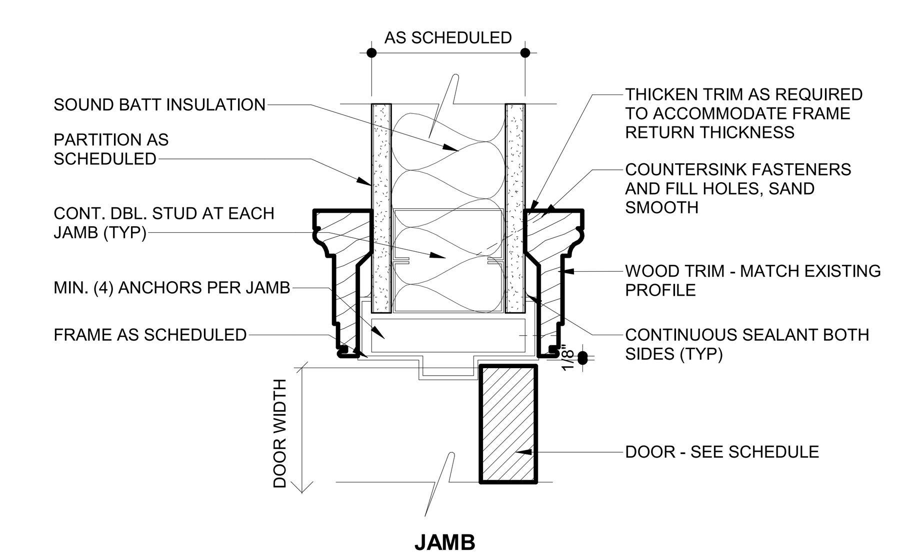
14 ALUM. DR. JAMB @ INT. WALL
SCALE | 3" = 1'-0"



9 HM DOOR JAMB @ INTERIOR WALL
SCALE | 3" = 1'-0"



13 HM HEAD WITH WOOD TRIM
SCALE | 3" = 1'-0"



8 JAMB WITH WOOD TRIM
SCALE | 3" = 1'-0"

GENERAL DOOR SCHEDULE NOTES

A. DOUBLE STUDS AT ALL DOOR OPENINGS.

B. SEAL JOINTS BETWEEN FINISH MATERIAL AND FRAME AT BOTTOM OF DOOR FRAMES.

C. CONTRACTOR TO VERIFY ALL FLOOR TO FLOOR TRANSITIONS THROUGHOUT PROJECT AREA. FLOOR MATERIAL CHANGES OCCUR AT CENTERLINE OF DOOR.

STATE OF OHIO MARK C. WISEMAN 13215 REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS :

Number	Description	Date

PRINTINGS :

BID & PERMIT REVIEW DOCUMENTS 10/03/2025

CONSULTANTS

KLH ENGINEERS

MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

MIAMI COUNTY COMMISSIONERS HOME. GROWN. GREAT. OHIO

PROJECT NO: 248698.00
CHECKED BY: Checker
DRAWN BY: Author
DATE: 10/03/2025

LEVIN PORTER ARCHITECTS
3011 NEWMARK DRIVE
MIAMISBURG, OHIO 45342
www.levin-porter.com
O: 937.224.1931
F: 937.224.3091
Levin Porter Associates Inc. dba Levin Porter Architects

DOOR SCHEDULE, TYPES, AND DETAILS

A601

12/23/2025 10:20:09 AM

HEARING ROOM RENDERING
SCALE | N/A

HEARING ROOM RENDERING
SCALE | N/A

HEARING ROOM RENDERING
SCALE | N/A

ENTRANCE VESTIBULE RENDERING
SCALE | N/A

STATE OF OHIO
MARK C. WISEMAN
13215
REGISTERED ARCHITECT

Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS :

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INTERIOR RENDERINGS

A801

12/23/2025 10:20:09 AM

SECTION 22 05 00.00 - COMMON WORK RESULTS FOR PLUMBING
GENERAL
The General Provisions of the Contract including the General and Supplemental Conditions and General Requirements apply to the work in this section. Before submitting a bid, examine documents of all other trades, visit the site and get acquainted with all conditions that may in any way affect the execution of this contract. Contractor shall obtain and pay for all permits, certificates of inspection and approvals required.
Submittal of a bid indicates that the contractor has examined the drawings, specifications, and had an opportunity to visit the site to be able to provide a comprehensive complete bid to include providing all materials, labor, tools, and equipment required to provide complete plumbing systems as outlined in Division-22.
Clearly state all full load amps (FLA), voltages and model numbers on all submittals.
Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories. Provide wiring diagrams: For power, signal, and control wiring.
APPLICABLE STANDARDS
The installation of all plumbing work shall conform to all the following, but not limited, applicable local and municipal utility standards, rules and regulations, plumbing codes and statutes having jurisdiction.
All plumbing fixtures, equipment, accessories, and appurtenances shall be NSF/ANSI 61-372 compliant.
Ohio Building Code;
Ohio Plumbing Code;
American Society for Test Materials (ASTM);
National Sanitation Foundation (NSF);
American Standards Association (ASA);
Underwriters Laboratories (UL);
National Fire Protection Association (NFPA);
National Electric Code (NEC);
PLANS AND SPECIFICATIONS
Obtain the latest design and construction standards document(s). Comply with all owner-specific requirements in addition to requirements set forth in these specifications and accompanying drawings. Should there be a conflict, the owner's standards shall take precedence, unless prevailing codes and regulations mandate otherwise.
The drawings that accompany these specifications are diagrammatic. Wherever possible make use of submittal data and verify all dimensions on site. Provide additional fittings as required by site conditions and codes at no additional cost to conform to the structure, avoid obstructions, provide required service clearances and preserve headroom. Do not scale from drawings, all measurements should be taken in the field.
EXISTING CONDITIONS
Where new plumbing systems are required to be connected to existing plumbing systems, provide all camera scoping and dye testing necessary to verify the exact location, size, invert elevation, pressure, pipe integrity, and system type to ensure a proper connection is executed. The contractor shall notify the engineer immediately if it is found a proper connection cannot be executed.
CUTTING, PATCHING AND DEMOLITION
The contractor shall be responsible for damages to the grounds, walks, road, building, piping systems, electrical systems, and their equipment and contents, caused by leaks in the piping systems being installed or having been installed by him. The contractor shall repair at his expense all damage so caused. All repair work shall be done as directed by and in such manner as satisfactory to the architect.
Owner reserves the right to make emergency repairs as required to keep equipment in operation without voiding the contractor's guarantee bond nor relieving the contractor of his responsibilities during the building period. Cut and drill all openings in roofs, walls, and floors required for the installation. Neatly patch all openings cut. Hold cutting and patching to a minimum by arranging with other contractors for all sleeves and openings before construction is started. When drilling/cutting concrete slabs, utilize ground penetrating radar (GPR) and/or X-ray scanning equipment to verify the location is free from obstructions, including but not limited to: structural rebar/strands/tendons, electrical conduit/wiring, and/or piping/ductwork.
EXCAVATION AND BACKFILL
Perform all excavation and backfilling required for this work. Contractor shall consult with utility company prior to beginning excavation. At a minimum, all piping shall be laid on a bed of sand, 6" deep, well tamped into place and properly graded to permit the pipe to have an even bearing throughout its entire length. Sand shall be installed around the piping in 6" lifts to a point 6" above the piping.
INTERRUPTION OF EXISTING SERVICES
Interruption of Existing Plumbing Services: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary service according to requirements indicated:
Notify, Architect, Construction Manager, and Owner no fewer than seven days in advance of proposed interruption of service.
Do not proceed with interruption of service without Architect's written permission.
WARRANTY
This contractor shall warrant that all work under this section shall be free of defective work, materials and parts for a period of one year after acceptance of the work and shall repair, revise, and replace, at no cost to the owner, any such defects occurring within the warranty period.
Use of Electronic Drawings from the Owner's Design Team
If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer. "Request Drawings" form can be accessed, filled out and submitted at http://www.klhengrs.com (right hand side of page - Contractor Resources). Direct access to this form can be found here: http://files.klhengrs.com/requestdrawings.html

22 05 03.00 - SUBMITTALS FOR PLUMBING
Provide submittals in accordance with the Contract Documents. In addition to Division 01, the Contractor is advised to review and comply with the requirements articulated within each Division and within each section of that Division.
Some Divisions may include a division-specific "Submittal Requirements for ….." section. Where this section exists, it articulates additional requirements for submittals that apply to the work of that Division.
The following requirements help to identify, track and keep the project organized for all parties involved. They are necessary to ensure a timely turnaround and an appropriate technical review. Submittals that do not conform to the administrative requirements are rejected and returned, without technical review.
Supply submittals for each section: Submittals shall be supplied on a section-by-section and type-by-type basis. For example, independent product data submittals shall be furnished for each section that requires product data submittals. Independent shop drawing submittals shall be furnished for each section that requires shop drawings. Separate PDF file packages shall be supplied for each section, for each submittal type. Each PDF shall represent a single standalone submittal.
Include a transmittal: Transmittals shall enumerate each submittal for each section of each type and iteration.
Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created with editable fields and specification compliant appearance is available from KLH upon request. It is also downloadable from the KLH website at HYPERLINK "http://www.klhengrs.com"www.klhengrs.com.
Include an index: The index shall enumerate the contents of the submittal.
Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals will be rejected. Where a section requires a product data submittal, all product data for that section shall be supplied together, at one time, as one complete submittal.
When resubmittal is required (e.g. Revise and Resubmit) the revised submittal shall be more complete, more accurate and more contract-compliant than its rejected predecessor. The submittal number (for each section and type) shall increment for each subsequent submittal (00 – Original submission, 01 – First Resubmission, 02 – Second Resubmission, etc…). Resubmittals shall include a copy of the reviewers comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments.
The absence of this on resubmittal is cause for rejection.
Name electronic files to match the submittal ID and cover sheet: The electronic file name of submittals shall match the submittal ID included on the submittal cover page. For example: The original/first product data submittal for Section 220523 would be labeled as "220523.00-PD-00"; the first resubmittal of same shall be labeled "220523.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "220523.00-SD-00"; the first resubmittal of same shall be labeled "220523.00-SD-01".
If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer.
"Request Drawings" form can be accessed, filled out and submitted at http://www.klhengrs.com (right hand side of page - Contractor Resources). Direct access to this form can be found here: http://files.klhengrs.com/requestdrawings.html

22 05 17.00 – SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING

SLEEVES
Steel Pipe: ASTM A 53, Type E, Grade B, Schedule 40, galvanized, plain ends.

EXECUTION
Install steel pipe sleeves two sizes larger than pipes passing through floors, rated walls, building foundation walls or masonry construction. Sleeves are not required for core drilled holes.

For sleeves that will have sleeve-seal systems installed, select sleeves of size large enough to provide 1-inch annular clear space between pipe and concrete slabs and walls.

Install sleeves in concrete floors, concrete roof slabs, and concrete walls as new slabs and walls are constructed.
Permanent sleeves are not required for holes in slabs formed by molded-PE or -PP sleeves.
Cut sleeves to length for mounting flush with both surfaces.
Exception: Extend sleeves installed in floors of mechanical equipment areas or other wet areas 2 inches above finished floor level.
Using grout, seal the space outside of sleeves in slabs and walls without sleeve-seal system.

Install sleeves for pipes passing through interior partitions.
Cut sleeves to length for mounting flush with both surfaces.
Install sleeves that are large enough to provide 1/4-inch annular clear space between sleeve and pipe or pipe insulation.
Seal annular space between sleeve and piping or piping insulation; use joint sealants appropriate for size, depth, and location of joint.

Seal sleeves and piping with material rating equivalent to the wall rating. Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials where required.

MECHANICAL SLEEVE-SEAL SYSTEMS
Description: Modular sealing-element unit, designed for field assembly, for filling annular space between piping and sleeve.
Sealing Elements: EPDM-rubber interlocking links shaped to fit surface of pipe. Include type and number required for pipe material and size of pipe.

22 05 23.00 - GENERAL DUTY VALVES
Submittal Requirements
Product Data: For each type of product indicated.
GENERAL
Provide stops or isolation valves on domestic water supplies to isolate hot and cold water to each fixture, including all equipment and equipment provided by others.
Access shall be provided to all valves. Provide fire-rated access panel(s) to maintain full access to concealed valves.
Ball valves - 2 inch and smaller: Lead-Free, 150 psi @ 250°F minimum pressure rating, cast bronze body, blowout-proof stem.
Butterfly Valves - 3" and up: Ductile Iron Butterfly Valve, 200 WOG, Lug Body, Lever Operator. Approved Manufacturers: Milwaukee Valve, NIBCO, and Watts Valve Technologies Co.
Valves to conform to: MSS-SP-110 Type I/ MSS-SP-67 Type I, NSF/ANSI -61/372.
Check valves - to be same size as system piping it accompanies. Lead-free, bronze body, 250 WOG, non-shock, spring check valve. Conforms to the following standard(s): MSS-SP-80 I, NSF/ANSI -61/372

22 05 29.00 – HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
GENERAL
Provide hangers, supports, clamps, attachments, and structural steel members where required to support piping and equipment from building structure.
Support of piping from the decking or equipment is prohibited.
Arrange for grouping of parallel runs of horizontal piping supported together on field-fabricated, heavy-duty trapeze hangers where possible. Trapeze hangers shall conform to: MSS SP-69, Type 59. Horizontal-Piping Clamps: Provide Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3) for suspension of pipes requiring clamp flexibility and up to 4 inches of insulation.
Vertical-Piping Clamps: Provide extension pipe or Riser Clamps (MSS Type 8) for support of pipe risers.
Hangers shall be sized to allow insulation to pass through unobstructed.
Hanger and support types:
Hangers: Provide adjustable, Steel Clevis Hangers (MSS Type 1) for suspension of noninsulated or insulated, stationary pipes.
Horizontal-Piping Clamps: Provide Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3) for suspension of pipes requiring clamp flexibility and up to 4 inches of insulation.
Vertical-Piping Clamps: Provide extension pipe or Riser Clamps (MSS Type 8) for support of pipe risers.
Hangers and supports shall be placed at all changes in direction, valves and equipment.
The maximum horizontal spacing of cast-iron pipe hangers can be 10' where 10-foot lengths of pipe are installed. Piping shall also be supported at each change in direction, valves and equipment.
Clevis-type hangers shall and supports shall conform to: MSS SP-58, Type 1-58.

22 05 53.00 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
PIPING
Provide self-adhesive pipe labels with white background and black lettering, contact type with permanent adhesive backing. Include identification of piping service using same designations or abbreviations as used on the drawings and an arrow indicating flow direction.
EQUIPMENT
Provide self-adhesive plastic equipment labels with white background and black lettering, contact type with permanent adhesive backing, 160 degree F temperature. Include equipment's drawing designation and specification section number where equipment is specified.

22 07 19.00 – PLUMBING SYSTEM INSULATION
GENERAL
Insulation shall be listed and labeled per ASTM E 84 for plenum installations employing slip on techniques.
Provide insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of piping including fittings, valves, and specialties.
Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.
PIPING SYSTEMS REQUIRING INSULATION
Insulate domestic cold water piping, associated fittings and valves with flexible elastomeric 1/2" wall thickness insulation.
Insulate domestic hot water piping, associated fittings and valves with 1" thick flexible elastomeric, 1-1/2" thick fiberglass insulation or per local energy code, whichever greater.
Insulate waste piping above ceilings that receive condensate with 1/2" wall thickness insulation.
Insulate exposed sanitary drains, domestic water, domestic hot water, and stops for plumbing fixtures for people with disabilities.
FLEXIBLE ELASTOMERIC INSULATION
Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials.
Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated.
Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following:
Aeroflex USA, Inc.; Aerocel., Armacell LLC; AP Armaflex.,K-Flex USA;
FIBERGLASS INSULATION
Fiberglass piping insulation: ASTM C 547, Class 1
Encase pipe fittings insulation with one-piece pre-molded PVC fitting covers.
Vapor Barrier Material: Paper-backed aluminum foil, except as otherwise indicated, strength and permeability rating equivalent to adjoining pipe insulation jacketing.
Staples, Bands, Wires, and Cement: As recommended by insulation manufacturer for applications indicated.
Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated.
Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following:
Armstrong World Industries, Inc., Owens-Corning Fiberglass Corp., Johns Manville.
ADHESIVES
Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated, unless otherwise indicated.
Insulation for handicap accessible fixtures
All handicap lavatory p-trap and angle stop assemblies shall be insulated with trap wrap protective kit manufactured by Proflo model PF202WH or equal. Abrasion resistant, anti-microbial vinyl exterior cover shall be smooth. For traps, the insulation shall have a cleanout nut cap to allow service to the trap without disassembly. For stops, the insulation shall have a lock lid that prevents tampering but allows access without removal of the insulation. Fasteners shall remain substantially out of sight.
Manufacturers: subject to compliance with requirements:
Proflo, Truebro, Plumberex

22 11 16.00 – DOMESTIC WATER PIPING
Submittal Requirements
Product Data: For each type of product indicated.
GENERAL
Install piping concealed from view unless noted otherwise, free of sags and bends. Do not enclose, cover, or put piping into operation until it has been inspected and approved by authorities having jurisdiction. Clean and disinfect potable domestic water piping using approved procedures by authorities having jurisdiction or AWWA C651, whichever is more rigorous.
Install at right angles; diagonal runs are prohibited unless otherwise shown. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Coordinate all piping with all other trades.
Provide water pressure regulators where necessary to limit the incoming water pressure to 80 psi inside the building.
DOMESTIC WATER PIPING ABOVE GROUND:
Hard copper tube, ASTM B 88, Type L; wrought-copper, solder-joint fittings; and soldered joints.
Solder Filler Metals: ASTM B 32, lead-free alloys.
Flux: ASTM B 813, water flushable.
Type "L"; copper pressure-seal joint; and pressure-seal joint systems.
CATHODIC PROTECTION
Provide dielectric insulation at points where copper or brass pipe comes in contact with ferrous piping, reinforcing steel or other dissimilar metal in structure.

22 11 19.00 – DOMESTIC WATER PIPING SPECIALTIES
Submittal Requirements
Product Data: For each type of product indicated.
Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following:
Conbraco Industries, Inc., "Watts Water Technologies Co., Zurn Industries, LLC., Thermomegatech, Acorn Engineering Co., and Caleffi, N. America., MIFAB, Inc., Precision Plumbing Products, Inc., Sioux Chief Manufacturing Company, Inc., Jay R. Smith Mfg. Co., Provent Systems, Rector Seal.
DUAL CHECK VALVE BACKFLOW PREVENTER
Provide a dual check valve backflow preventer that complies with ASSE 1022 at connection of domestic water supply to any permanently connected potable water dispensing equipment such as ice makers, coffee machines, and beverage dispensers or where indicated in the contract documents.
WATER HAMMER ARRESTERS
Provide water-hammer arresters in water piping according to PDI-WH 201.
Standard: ASSE 1010 or PDI-WH 201.
Type: Metal bellows or copper tube with piston.
Size: ASSE 1010, sizes AA and A through F, or PDI-WH 201, sizes a through F.

22 13 16.00 - SANITARY, WASTE AND VENT PIPING SYSTEM
Submittal Requirements
Product Data: For each type of product indicated.
GENERAL
Provide a complete soil, waste and vent system in the building and on the site as indicated on the drawings and as specified herein.
Above ground soil, waste and vent piping within buildings including soil stacks, vent stacks, horizontal branches, traps, and connections to fixtures and drains.
Underground building drain piping including mains, branches, traps, connections to fixtures and drains, and connections to stacks, terminating at connection to existing sanitary sewer.
INTERIOR PIPING ABOVE GRADE
Solid wall schedule 40 PVC pipe and fittings 1-1/2" and larger shall conform to ASTM D 2665 / ASTM D 1785 DWV. Fittings shall conform to ASTM D 2665, made to ASTM D, DWV patterns and fit schedule 40 pipe.
Contractor shall maintain integrity of fire ratings. Piping shall not be run in plenum spaces and contractor shall provide intumescent collars when penetrating a rated wall, floor, or other assembly
Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely supported or secured to maintain such alignment.
Soil, waste and vent piping smaller than 1-1/2" shall be Type "M" copper and conform to ASTM B-306.
Slope piping according to local codes.
Protection shall be given to all footings and other structural elements during underground work adjacent to such items. Refer to architectural and/or structural drawings for locations.
Vent all fixtures, connect branch vents to main vent risers at least six inches above flood rim of fixtures. Pitch vent lines back to soil or waste pipe, free of drops and sags.
Cleanouts shall be full size of pipe up to 4", and 4" for larger sizes. For underground and concealed lines, provide cleanouts in accessible positions at each right angle turn and at intervals not to exceed fifty feet. In floors, install flush with finish floor with extension pipe from cleanout wye.

22 13 19.00 - SANITARY WASTE PIPING SPECIALTIES
Submittal Requirements
Product Data: For each type of product indicated.
CLEANOUTS
Wall cleanout equal to Zurn Z-1443 with smooth nickel bronze square wall access panel and frame.

Provide a sanitary tee with threaded cap cleanout plug for changes-in-direction in aboveground horizontal waste piping.
Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following:
Jay R Smith MFG. Co., HYPERLINK "http://www.specagent.com/LookUp/?uid=123456821158&mf=04&src=wd"Watts Drainage Products Inc., Zurn Plumbing Products Group.

22 30 01.00 - POINT OF USE THERMOSTATIC MIXING VALVES
Submittal Requirements
Product Data: For each type of product indicated.
GENERAL
Thermostatic mixing valves shall be provided for all public hand washing sinks and lavatories and shall be ASSE 1070 listed, lead free, sweat connections, 125 psi operating pressure and have integral checks. Mount under sink or lavatory. Set outlet temperature of thermostatic mixing valve to 105 degrees F.
Point-of use thermostatic mixing valves shall be equal to Powers LFG480. Route tempered water to hot water side of sink and lavatories.
Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, and are limited to, the following:
Symmons, Acorn Engineering, Powers, Bradley

22 40 00.00 - PLUMBING FIXTURES
Submittal Requirements
Product Data: For each type of product indicated.
GENERAL
Refer to plumbing fixture schedule and install per the manufacturer's installation and operation manual.
Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, and are limited to, the following:
American Standard, Kohler Co., Zurn Industries, LLC.

GARBAGE DISPOSAL SCHEDULE

PRODUCT					GENERAL		MISC	ELECTRICAL																	PRODUCT
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY	CN TYPE	CN FURNISHED BY	CN INSTALLED BY	CN WIRED BY	MC TYPE	MC FURNISHED BY	MC INSTALLED BY	MC WIRED BY	DC TYPE	DC FURNISHED	DC INSTALLED BY	DC WIRED BY	REQUIRED TO MEET FAULT CURRENT	FAULT CURRENT	EMERGENCY	MARK
GD1	GARBAGE DISPOSAL	INSINKERATOR	BADGER 5	22 00 00.00	BREAKROOM	NEW	INCLUDE POWER CORD	GD1	GD1 - 120V/1PH, 0.5 HP, 6.3 MCA	MAN	EC	EC	EC	ECM	MFR	MFR	MFR	CP	EC	EC	EC	FALSE	GD1: --	FALSE	GD1

SINK SCHEDULE

PRODUCT					GENERAL		MISC	VALVE/FAUCET INFORMATION		FIXTURE UNITS				FLOW INFORMATION	TRAP INFORMATION
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	FIXTURE MFG	FIXTURE MODEL	DFU	WSFU	CW SFU	HW SFU	FLUID FLOW	INTEGRAL TRAP
SK1	SINK	KOHLER	VAULT K-3936	22 40 00.00	BREAKROOM	NEW	ADA COMPLIANT UNDERMOUNT SINK, PROVIDE WITH TMV-1	KOHLER	SIMPLICE K-596	2	1.4	1	1	1.5	NO

WASHER BOX SCHEDULE

PRODUCT					GENERAL		MISC	FIXTURE UNITS				FLOW INFORMATION	TRAP INFORMATION
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	DFU	WSFU	CW SFU	HW SFU	FLUID FLOW	INTEGRAL TRAP
WB1	WASHER BOX	GUY GRAY	MIB1HAAB	22 40 00.00	BREAKROOM	NEW	CW CONNECTION ONLY	2	1.4	1	--	1.5	NO

DOMESTIC WATER BACKFLOW PREVENTER SCHEDULE

PRODUCT					FLOW INFORMATION	GENERAL		MISC
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	PRESSURE LOSS (PSI)	LOCATION	STATUS	ACCESSORIES
BFP1	DOMESTIC WATER BACKFLOW PREVENTER	WATTS	SD-3	22 00 00.00	10	BREAKROOM	NEW	ASSE 1022 RATED

POINT-OF-USE THERMOSTATIC MIXING VALVE SCHEDULE

PRODUCT					GENERAL		MISC	DESIGN CONDITIONS
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	LWT
TMV1	POINT-OF-USE THERMOSTATIC MIXING VALVE	ACORN	ST7069	22 00 00.00	BREAKROOM, SK1	NEW	ASSE 1069 & 1070 RATED	110

CODE INFORMATION

PLUMBING CODE	2024 OHIO PLUMBING CODE
ENERGY CODE	2021 INTERNATIONAL ENERGY CONSERVATION CODE

PLUMBING LEGEND

SYMBOL	DESCRIPTION
PLAN-VIEW LINE TYPES	
	WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE
	WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK
	WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK
	DIRECTION OF FLOW

DRAWING SET APPEARANCE

TO BETTER COMMUNICATE SCOPE TO PERMIT AGENCIES AND CONTRACTORS, EACH DRAWING IN THIS DRAWING SET HAS BEEN CREATED IN BOTH "COLOR" AND "BLACK AND WHITE". THERE EXISTS A COLOR LAYER WITHIN EACH DRAWING WHERE VISIBILITY IS CONTROLLED THROUGH THE PDF LAYER MANAGER. THIS LAYER VISIBILITY CAN BE TOGGLED DISPLAYING EITHER "COLOR" OR "BLACK AND WHITE". TO MAINTAIN SCOPE BASED SHADING WHEN PRINTING TO PAPER, BLACK AND WHITE NEEDS TO BE VISIBLE.
FOR FURTHER INSTRUCTIONS, REFER TO CONTRACTOR RESOURCES ON OUR WEBSITE AND DOWNLOAD "DRAWING COLOR INSTRUCTIONS".
WWW.KLHENGRS.COM - CONTRACTOR RESOURCES (RIGHT HAND SIDE OF PAGE).

PIPING LINE TYPES

SYMBOL	DESCRIPTION
S1	SANITARY WASTE PIPING
V1	VENT PIPING
C1	DOMESTIC COLD WATER PIPING
H1	DOMESTIC HOT WATER PIPING

PLUMBING ACCESSORIES

SYMBOL	DESCRIPTION
	CO - CLEANOUT, WCO - WALL CLEANOUT

PIPE VALVES

SYMBOL	DESCRIPTION
	SHUT-OFF VALVE
	BACKFLOW PREVENTER

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	PIPE UP
	PIPE DOWN
	PIPE TEE DOWN
	PIPE TEE UP

REVISIONS :

Number	Description	Date

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201 W Main ST, Troy, OH 45373

MIAMI COUNTY COMMISSIONERS OHIO

PROJECT NO: 27619
CHECKED BY: DMR
DRAWN BY: DM
DATE: 10/3/25

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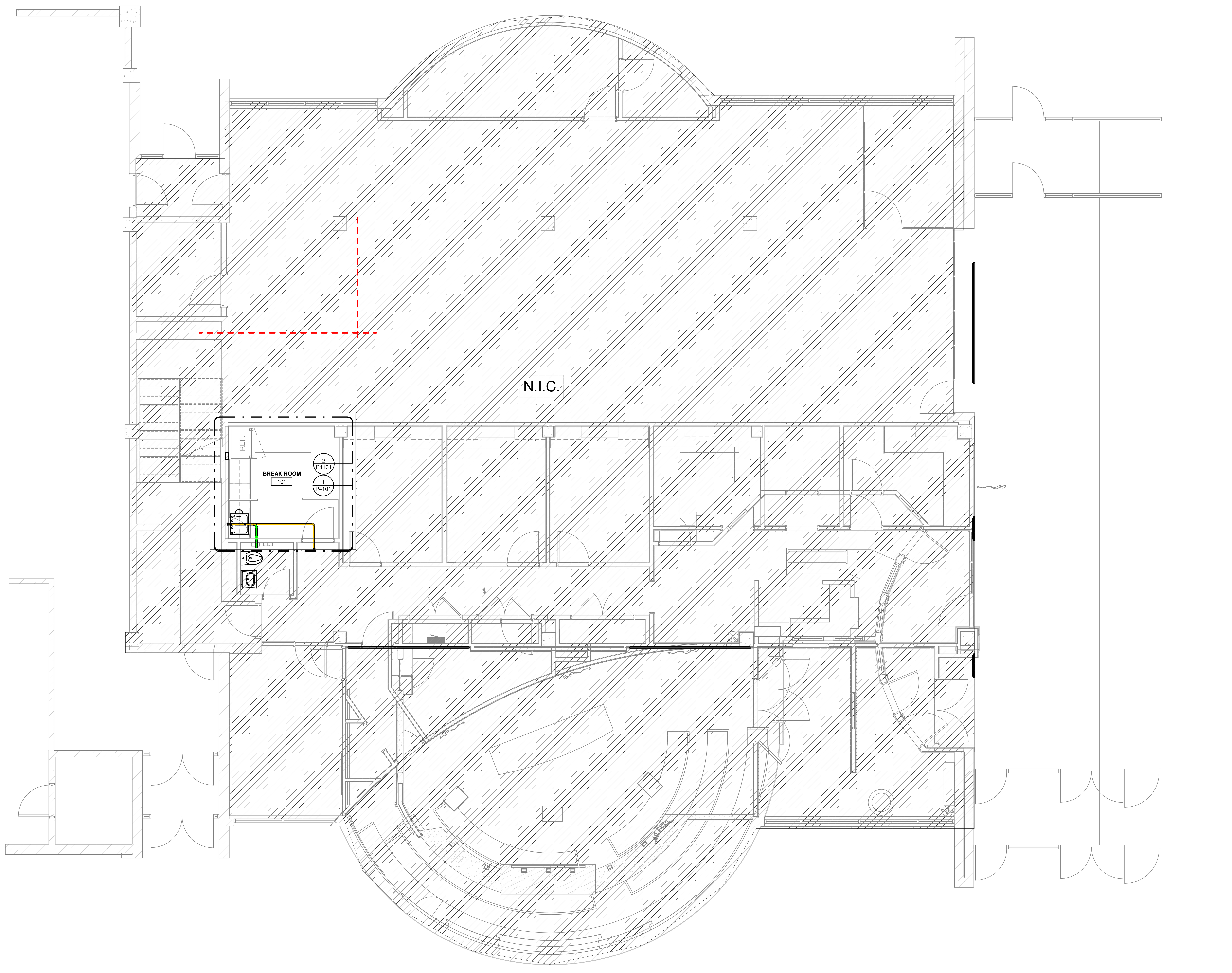
PLUMBING COVER SHEET

P0001



1 PLUMBING PLAN - OVERALL
1/4" = 1'-0"

REVISIONS :

Number	Description	Date

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PLUMBING PLAN -OVERALL

P4100

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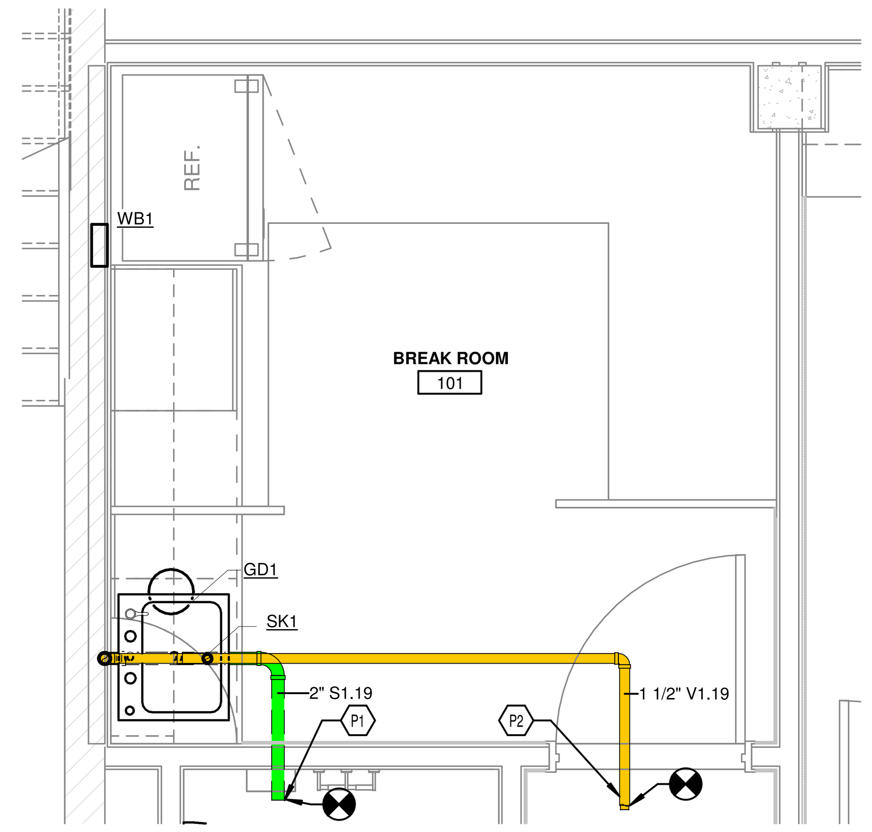
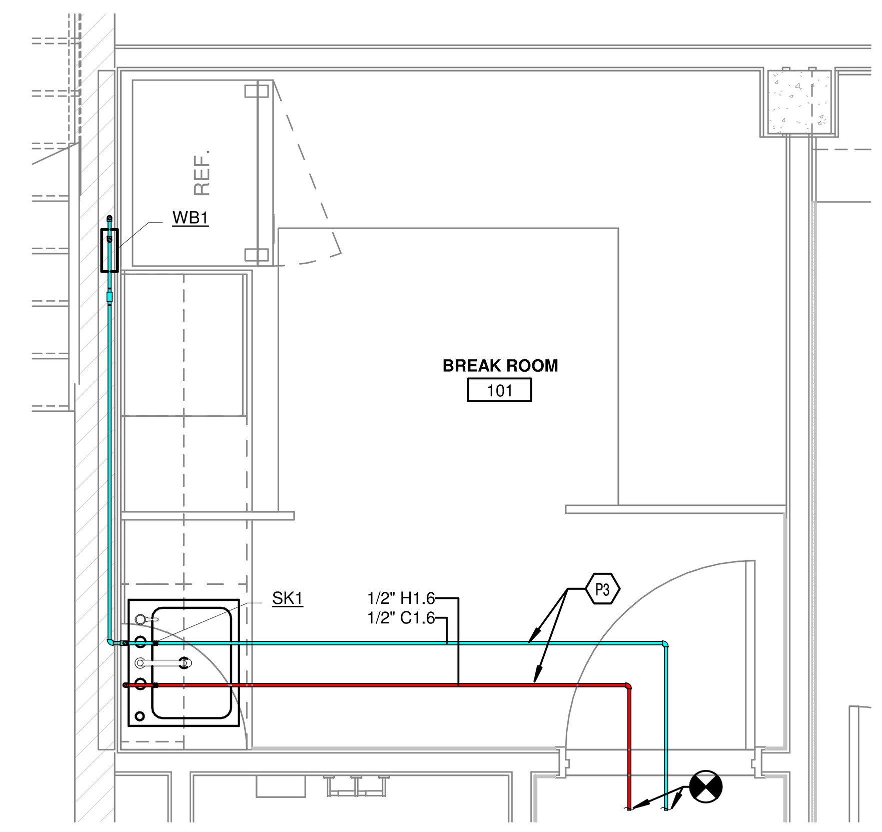
Pipe Type Legend			
Mark	Color	System Name	Pipe Material
C1.6		C1 - Domestic Cold Water	6 - Copper - Type L - ASTM B88
H1.6		H1 - Domestic Hot Water	6 - Copper - Type L - ASTM B88
S1.19		S1 - Sanitary	19 - PVC - Schedule 40 - ASTM D1785/D2665
V1.19		V1 - Vent	19 - PVC - Schedule 40 - ASTM D1785/D2665

KEYED NOTES

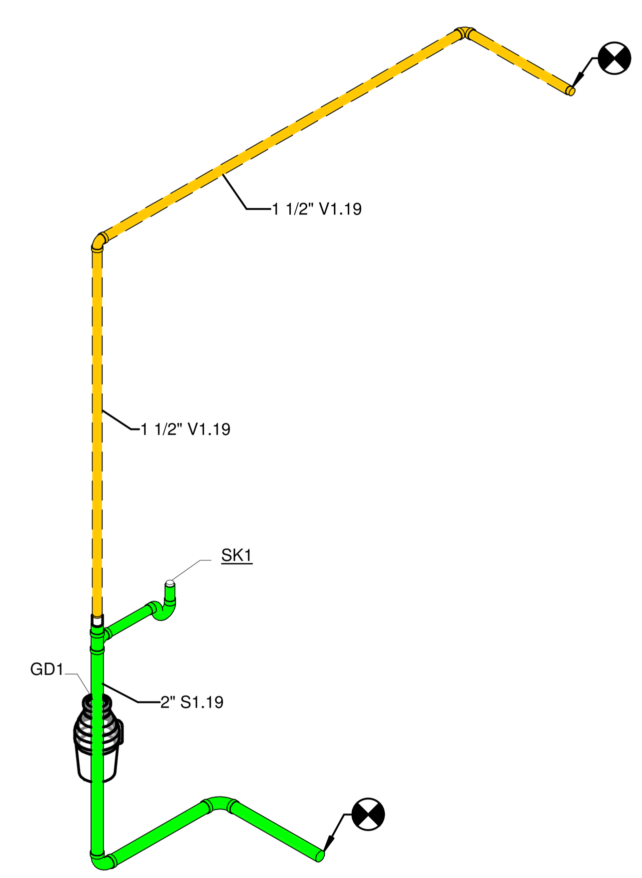
P1	EXTEND NEW SANITARY PIPING INTO EXISTING ADJACENT RESTROOM AND CONNECT. FIELD VERIFY EXACT LOCATION, INVERT ELEVATION, SIZE, AND DIRECTION OF FLOW OF EXISTING SANITARY PIPING SERVING EXISTING RESTROOM. CONTACT ENGINEER OF RECORD IMMEDIATELY IF UNABLE TO CONNECT NEW SANITARY PIPING TO EXISTING SANITARY PIPING.
P2	EXTEND NEW VENT PIPING INTO EXISTING ADJACENT RESTROOM AND CONNECT. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING VENT PIPING SERVING EXISTING RESTROOM. CONTACT ENGINEER OF RECORD IMMEDIATELY IF UNABLE TO CONNECT NEW VENT PIPING TO EXISTING VENT PIPING.
P3	EXTEND NEW COLD AND HOT WATER PIPING INTO EXISTING ADJACENT RESTROOM AND CONNECT. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING COLD AND HOT PIPING SERVING EXISTING RESTROOM. CONTACT ENGINEER OF RECORD IMMEDIATELY IF UNABLE TO CONNECT NEW COLD AND HOT WATER PIPING TO EXISTING PIPING.



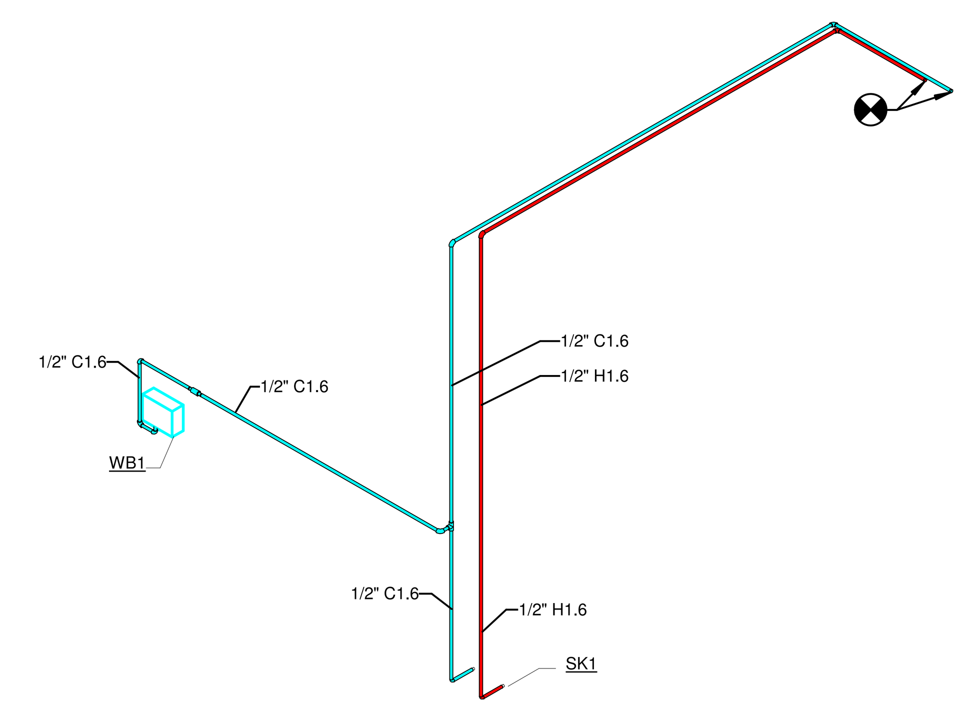
2 PLUMBING SANITARY & VENT PLAN
1/2" = 1'-0"



1 PLUMBING WATER PLAN
1/2" = 1'-0"



3 PLUMBING-SANITARY & VENT ISOMETRIC



4 PLUMBING-HOT & COLD WATER ISOMETRIC

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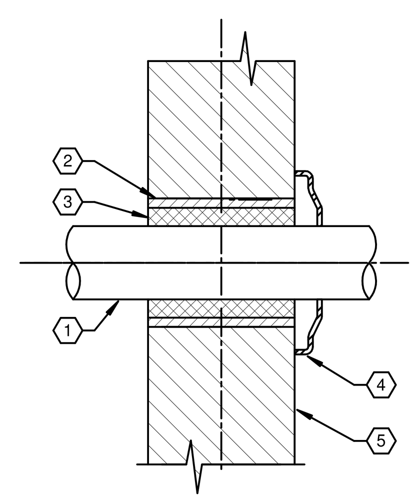
PLUMBING SANITARY & VENT PLAN

P4101

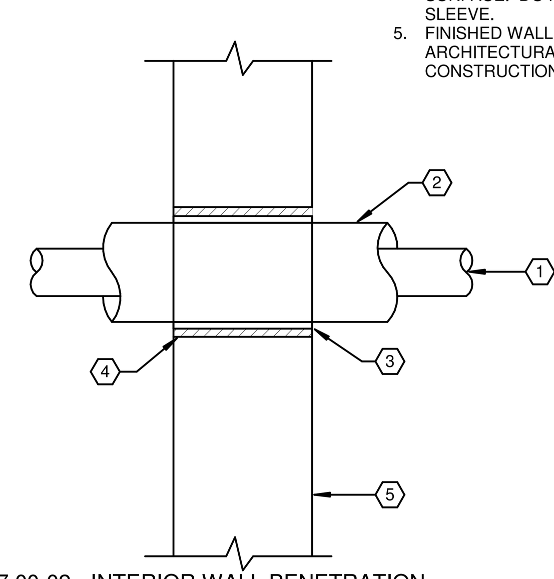


KEYED NOTES:

1. PIPE.
2. SCHEDULE 40 STEEL PIPE SLEEVE TO BE 1" LARGER THAN THE OUTSIDE SURFACE OF PIPE INSULATION AND FLUSH TO WALL SURFACE. DO NOT SUPPORT PIPING WITH SLEEVE.
3. FLEXIBLE SEALANT OR FIRE RATED SEALANT FOR FIRE RATED PENETRATIONS.
4. ESCUTCHEON PLATE TO COMPLETELY COVER OPENING.
5. FINISHED WALL SURFACE. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION TYPE.

220517.00-03 - PIPE PENETRATION WITHOUT INSULATION

SCALE: NONE

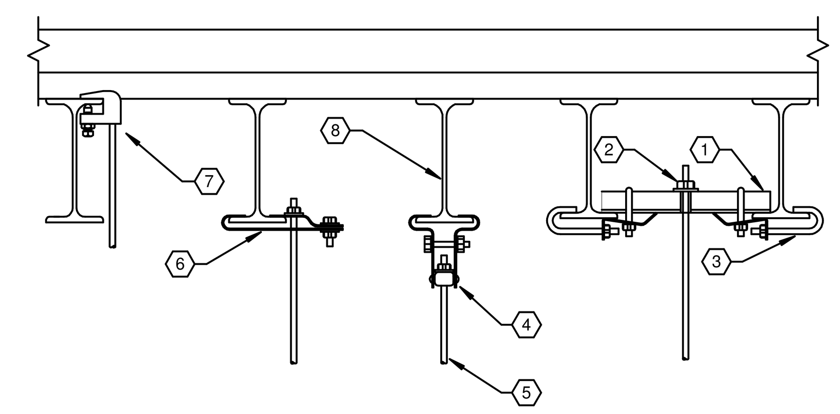


KEYED NOTES:

1. NON-COMBUSTIBLE PIPE.
2. PIPE INSULATION TO BE CONTINUOUS THROUGH WALL.
3. FLEXIBLE SEALANT OR FIRE RATED SEALANT FOR FIRE RATED PENETRATIONS.
4. SCHEDULE 40 STEEL PIPE SLEEVE TO BE 1" LARGER THAN THE OUTSIDE SURFACE OF PIPE INSULATION AND FLUSH TO WALL SURFACE. DO NOT SUPPORT PIPING WITH SLEEVE.
5. FINISHED WALL SURFACE. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION TYPE.

220517.00-02 - INTERIOR WALL PENETRATION

SCALE: NONE

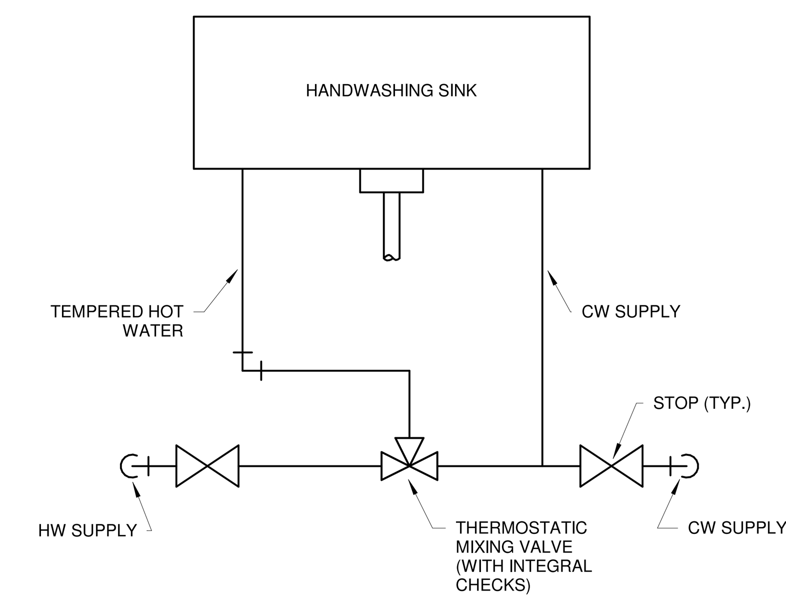


KEYED NOTES:

1. METAL UNISTRUT.
2. NUT AND WASHER.
3. UNISTRUT BEAM CLAMP.
4. HANGER ROD.
5. SIDE BEAM CLAMP.
6. C-CLAMP FOR PIPING.
7. STRUCTURAL STEEL. I-BEAM OR OPEN WEB STEEL JOIST.

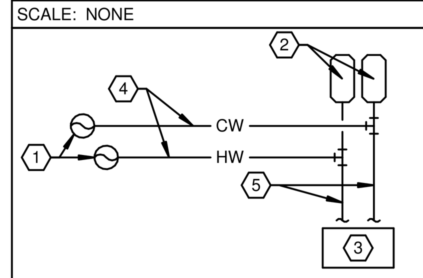
220529.00-02 - TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL

SCALE: NONE



223001.00-01 - THERMOSTATIC MIXING VALVE TMV DETAIL

SCALE: NONE



INDIVIDUAL PLUMBING FIXTURE BRANCH LINE

KEYED NOTES:

1. HORIZONTAL OR VERTICAL HOT OR COLD WATER MAIN.
2. UNIT SIZE 'A' WATER HAMMER ARRESTOR. LOCATE AT EACH WATER BRANCH PIPE SERVING A SINGLE PLUMBING FIXTURE AND PLUMBING EQUIPMENT.
3. PLUMBING FIXTURE WITH EITHER HOT WATER, COLD WATER, OR BOTH.
4. HORIZONTAL HOT WATER OR COLD WATER BRANCH PIPING.
5. VERTICAL HOT WATER OR COLD WATER BRANCH PIPING.

GENERAL NOTE:

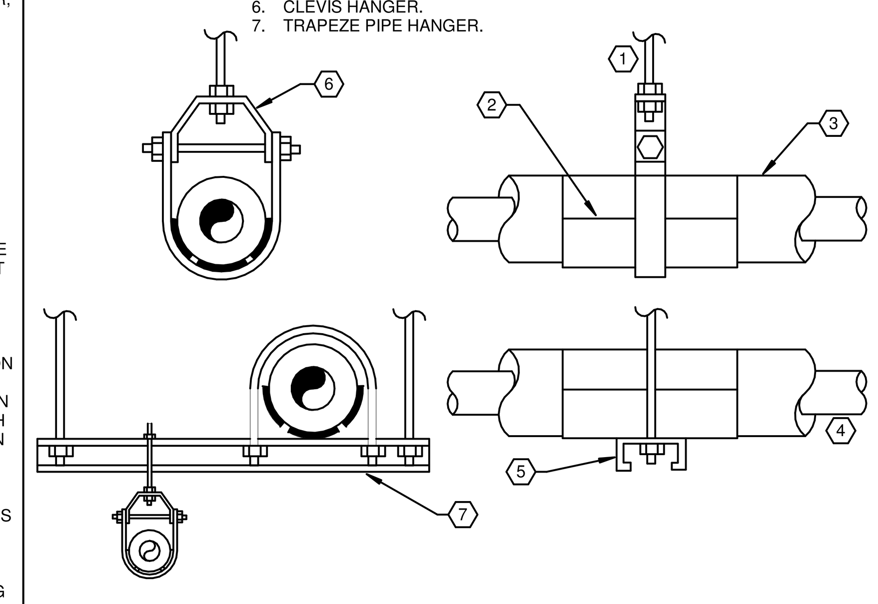
A. PROVIDED WATER HAMMER ARRESTORS SHALL BE ASSE 1010 RATED OR PDI-WH 201 COMPLIANT.
B. SCOPE OF THIS DETAIL SHALL BE APPLICABLE TO ALL PLUMBING FIXTURES AND EQUIPMENT THAT HAVE QUICK CLOSING VALVES. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FLUSH VALVES, BEVERAGE DISPENSING EQUIPMENT, ICE MAKERS, AND WASHERS.
C. ALL POSSIBLE CONDITIONS AND INSTALLATION SCENARIOS NOT REPRESENTED, WATER HAMMER ARRESTORS SHALL BE INSTALLED IN WATER PIPING IN ACCORDANCE WITH PDI-WH 201 AS THIS DETAIL IS PROVIDED FOR DESIGN INTENT.
D. WHERE SUPPLY BOXES HAVE INTEGRAL WATER HAMMER ARRESTORS, SEPARATE PIPE INSTALLED WATER HAMMER ARRESTORS SHALL NOT BE REQUIRED FOR THE APPLICABLE PIECE OF EQUIPMENT SUPPLIED FROM THE SUPPLY BOX.
E. WHERE REQUIRED BY APPLICABLE PLUMBING CODE, WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.

221319.00-06 - WATER HAMMER ARRESTOR DETAIL

SCALE: NONE

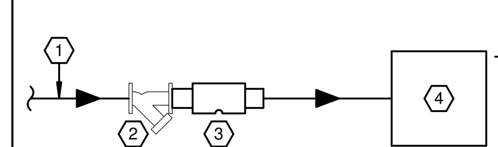
KEYED NOTES:

1. HANGER ROD.
2. GALVANIZED STEEL PIPE SHIELD AND 360° CALCIUM SILICATE INSULATION HANGER SUPPORT.
3. PIPE INSULATION.
4. PIPE.
5. UNISTRUT CHANNEL.
6. CLEVIS HANGER.
7. TRAPEZE PIPE HANGER.



220529.00-01 - PLUMBING PIPE HANGER INSTALLATION

SCALE: NONE



KEYED NOTES:

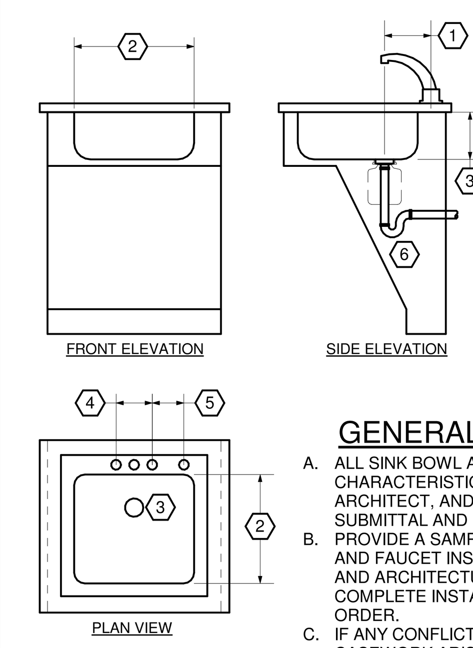
1. DOMESTIC WATER SUPPLY.
2. STRAINER.
3. ASSE 1022 RATED BACKFLOW PREVENTER FOR BEVERAGE DISPENSING EQUIPMENT EQUAL TO WATTS SD-3. CONNECT WASTE PIPE TO VENT OPENING AND DRAIN INDIRECT TO ADJACENT FLOOR DRAIN/SINK.
4. COFFEE BREWER, ESPRESSO MACHINE, TEA BREWER, JUICE DISPENSER.

GENERAL NOTES:

A. DIAGRAM IS SCHEMATIC. BACKFLOW PREVENTERS SHALL BE INSTALLED IN COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS AND ONLY IN INSTALLATION ORIENTATIONS PERMITTED BY MANUFACTURER.
B. BACKFLOW PREVENTERS SHALL BE INSTALLED WITH READY ACCESS. CONCEALMENT IS NOT PERMITTED. WHERE A SUPPLY BOX IS INDICATED, BACKFLOW PREVENTER SHALL BE INSTALLED IN BETWEEN SUPPLY BOX OUTLET AND FINAL EQUIPMENT CONNECTION.

221113.00-04 - BEVERAGE EQUIPMENT BACKFLOW PREVENTER DETAIL

SCALE: NONE



FRONT ELEVATION

SIDE ELEVATION

PLAN VIEW

KEYED NOTES:

1. COORDINATE FAUCET SPOUT REACH WITH OWNER REQUIREMENTS.
2. COORDINATE SINK LENGTH, WIDTH , AND DEPTH WITH CASEWORK PROVIDER TO ENSURE CORRECT FIT AND COMPLETE INSTALLATION.
3. COORDINATE SINK DRAIN OFFSET WITH CASEWORK PROVIDER TO ENSURE CORRECT FIT AND COMPLETE INSTALLATION.
4. COORDINATE FAUCET SPREAD AND, NUMBER OF HOLES TO ACCOMMODATE FAUCET INSTALLATION.
5. COORDINATE NUMBER OF HOLES AND LOCATION OF ADDITONAL SINK ACCESSORIES.
6. COORDINATE SINK P-TRAP AND/OR FOOD DISPOSER LOCATION WITH CASEWORK PROVIDER TO ENSURE CORRECT FIT AND COMPLETE INSTALLATION.

GENERAL NOTES:

A. ALL SINK BOWL AND FAUCET DIMENSIONS AND PHYSICAL CHARACTERISTICS SHALL BE COORDINATED WITH OWNER, ARCHITECT, AND CASEWORK PROVIDER PRIOR TO PRODUCT SUBMITTAL AND FINALIZING PURCHASE ORDER.
B. PROVIDE A SAMPLES OR SCHEMATIC DRAWINGS OF SINK BOWL AND FAUCET INSTALLATION COORDINATED WITH CASEWORK AND ARCHITECTURAL ELEMENTS AS NECESSARY TO ENSURE A COMPLETE INSTALLATION PRIOR TO FINALIZING PURCHASE ORDER.
C. IF ANY CONFLICT BETWEEN SINK BOWL, FAUCET, AND/OR CASEWORK ARISE IMMEDIATELY NOTIFY ENGINEER OF RECORD PRIOR TO PURCHASING AND INSTALLATION.

220000.00-04 - CASEWORK SINK COORDINATION DETAIL

SCALE: NONE

REVISIONS :

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MIAMI COUNTY COMMISSIONERS OHIO

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PLUMBING - DETAILS

P4501

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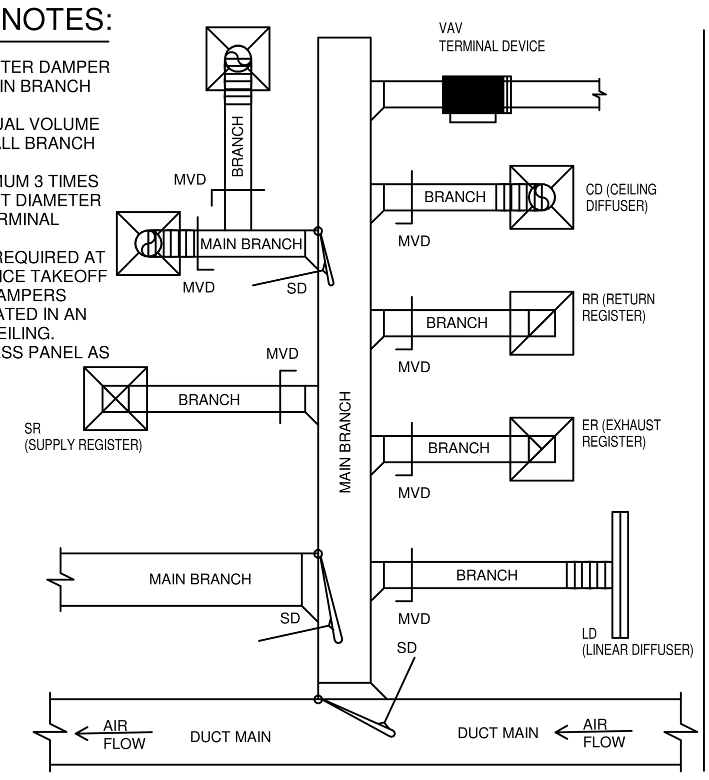
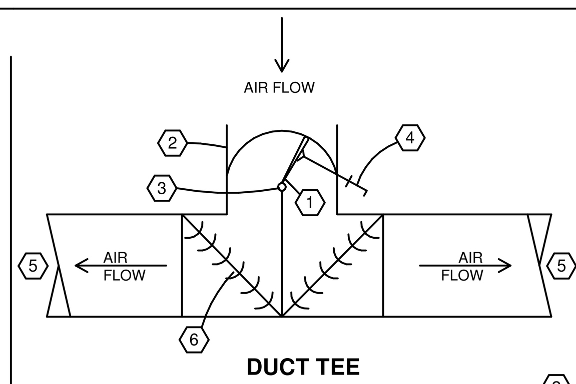
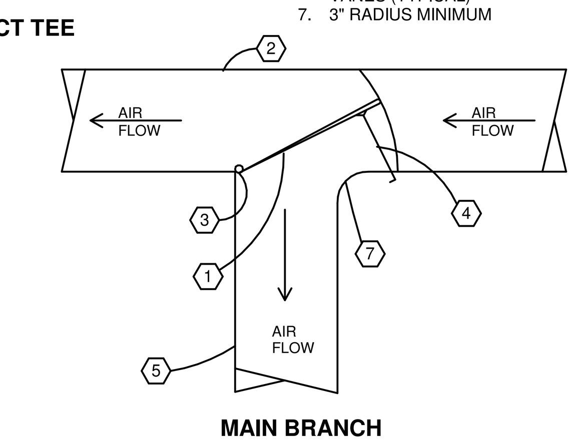
GENERAL NOTES:

1. PROVIDE SPLITTER DAMPER (SD) AT ALL MAIN BRANCH TAKEOFFS
2. PROVIDE MANUAL VOLUME DAMOERS AT ALL BRANCH TAKEOFFS
3. PROVIDE MINIMUM 3 TIMES STRAIGHT INLET DIAMETER TO ALL VAV TERMINAL DEVICES
4. DAMPER NOT REQUIRED AT TERMINAL DEVICE TAKEOFF
5. ALL MANUAL DAMPERS SHALL BE LOCATED IN AN ACCESSIBLE CEILING. PROVIDE ACCESS PANEL AS REQUIRED.





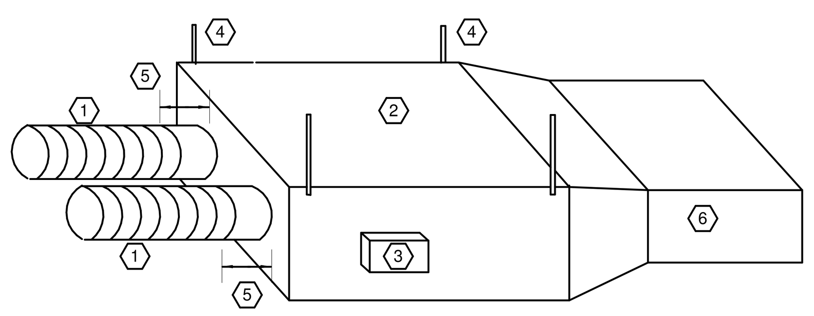


KEYED NOTES:

1. 20 GAUGE DOUBLE SHEET METAL AIR FOIL FULL DEPTH OF MAIN DUCT UP TO 12" WIDE BRANCHES 18 GAUGE ON WIDER BRANCHES
2. MAIN DUCT
3. GALVANIZED 3/16" ROD
4. VENTLOCK NO. 600-3 DAMPER BLADE, BRACKTER & LOCKING BALL JOINT WITH 1/4" Ø GALVANIZED OPERATOR PAD
5. BRANCH MAIN DUCT
6. DOUBLE THICKNESS TURNING VANES (TYPICAL)
7. 3" RADIUS MINIMUM

233300.00-01 - MANUAL DAMPER DETAIL

SCALE: NONE



KEYED NOTES:

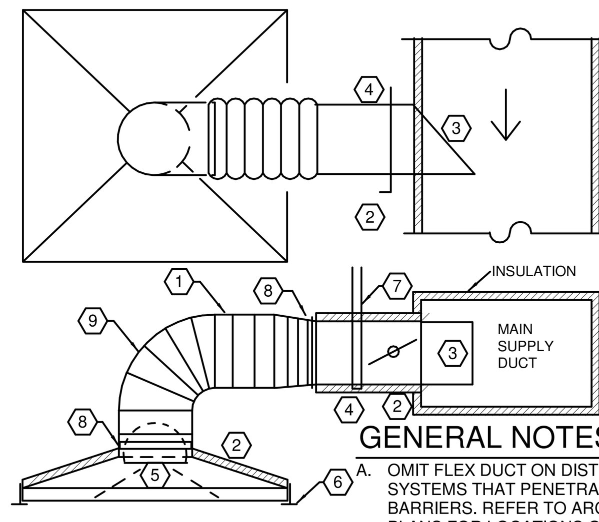
1. INSULATED FLEXIBLE DUCT WITH MAXIMUM LENGTH OF 24"
2. VAV BOX
3. DUAL DAMPER ACTUATORS - ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL
4. GALVANIZED THREADED ROD (CONNECT TO STRUCTURE)
5. SHEET METAL DUCT INTO VAV BOX, MINIMUM LENGTH OF 3 TIMES INLET DUCT DIAMETER
6. OUTLET DUCT WRAPPED WITH 1-1/2" THICK INSULATION

GENERAL NOTES:

A. OMIT FLEX DUCT ON DISTRIBUTION SYSTEMS THAT PENETRATE 1-HR FIRE BARRIERS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE BARRIERS.

233613.00-01 - DUAL DUCT VAV BOX

SCALE: NONE



GENERAL NOTES:

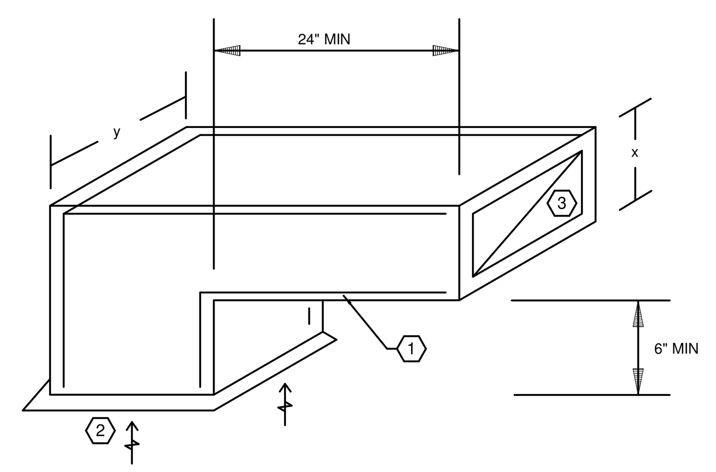
A. OMIT FLEX DUCT ON DISTRIBUTION SYSTEMS THAT PENETRATE 1-HR FIRE BARRIERS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE BARRIERS.

KEYED NOTES:

1. MAXIMUM LENGTH OF INSUL. FLEX DUCT EQUALS 5 FEET. FLEX NOT PERMITTED IN INACCESSIBLE CEILINGS
2. INSULATED DUCT, COLLAR AND DIFFUSER BY HVAC CONTRACTOR
3. SCOOP
4. SPIN IN FITTING WITH MANUAL VOLUME DAMPER
5. INTERNAL BUTTERFLY DAMPER FOR DRYWALL APPLICATIONS ONLY. (PROVIDE KEY FOR ADJUSTMENT)
6. SECURE TO CEILING PER MANUFACTURER'S RECOMMENDATIONS AND PER CEILING FINISH. PROVIDE GRID CLIPS PER MFG'R REQUIREMENTS. PROVIDE FRAMING FOR DRYWALL INSTALLATION.
7. HANGER, SECURE TO STRUCTURE AND DUCTWORK
8. PEEL BACK INSULATION AND PROVIDE STRAPPING AND SHEET METAL SCREWS AT FLEX CONNECTION TO DUCT. THEN PROVIDE STRAPPING AROUND INSULATION
9. SUPPORT FLEX TO PREVENT COLLAPSING

233713.00-04 - DIFFUSER INSTALLATION TYPICAL

SCALE: NONE



GENERAL NOTES

A. OPENING SIZE:
12x12 RR = 12x12 DUCT
12x24 RR = 12x18 DUCT
24x23 RR = 24x18 DUCT

KEYED NOTES:

1. 1/2" ACOUSTIC LINING
2. 12x12 RR OT 24x24 RR (UNLESS OTHERWISE NOTED)
3. OPENING SAME SIZE AS RR NECK

233713.00-13 - PLENUM RETURN GRILLE

SCALE: NONE

NEW WORK GENERAL NOTES

A. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
B. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS AND GRILLES.
C. DO NOT SCALE DRAWINGS; REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS, DOORS, WINDOWS, AND CABINETRY.
D. COORDINATE WORK AND SPACE REQUIREMENTS IN CEILING SPACES WITH OTHER TRADES PRIOR TO INSTALLATION.
E. COORDINATE LOCATIONS AND ORIENTATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
F. COORDINATE WALL LOUVERS WITH ARCHITECTURAL ELEVATIONS AND DETAILS.
G. PROVIDE VOLUME DAMPERS AT ALL SUPPLY, RETURN, AND EXHAUST DUCT BRANCH TAKE-OFFS.
H. PROVIDE TURNING VANES IN ALL 90 DEGREE MITERED ELBOWS. OMIT TURNING VANES IN ACOUSTIC LINED RETURN DUCT ELBOWS.
I. PROVIDE FLEXIBLE DUCT ON INLET TO EACH CEILING DIFFUSER. CUT FLEXIBLE DUCTS TO LENGTH NEEDED AND INSTALL WITHOUT KINKS OR SHARP BENDS (BENDS WITH CENTERLINE RADIUS LESS THAN DUCT DIAMETER). SUPPORT FLEXIBLE DUCTS WITH MINIMUM 1" WIDE METAL STRAPS OR SADDLES.
J. SIZES OF ACOUSTIC LINED DUCTS ARE NET INSIDE DIMENSION. INCREASE SHEET METAL SIZE ACCORDINGLY.
K. RUNOUTS TO CEILING DIFFUSERS ARE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
L. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.
M. ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTME E 84.

GENERAL NOTES

A. EXISTING DUAL DUCT VAV BOXES TO BE REBALANCED TO NEW SCHEDULED VALUES.
B. ALL AIR OUTLETS LISTED WITH CFMS TO BE REBALANCED.

DEMOLITION GENERAL NOTES

A. REMOVE EXISTING DUCTWORK, CONTROLS, AND MISCELLANEOUS HVAC EQUIPMENT NOT INTENDED FOR REUSE. FIELD VERIFY THE EXACT SCOPE PRIOR TO BID. COORDINATE ALL DEMOLITION WORK WITH THE LANDLORD AND GENERAL CONTRACTOR.

HVAC DRAWING INDEX

SHEET NUMBER	SHEET NAME
M001	MECHANICAL COVER SHEET
M1101	MECHANICAL DEMO PLAN
M3101	MECHANICAL DUCTWORK PLAN

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
PLAN-VIEW LINE TYPES	
	WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE
	WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK
	WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK
DRAWING SET APPEARANCE	
	TO BETTER COMMUNICATE SCOPE TO PERMIT AGENCIES AND CONTRACTORS, EACH DRAWING IN THIS DRAWING SET HAS BEEN CREATED IN BOTH "COLOR" AND "BLACK AND WHITE". THERE EXISTS A COLOR LAYER WITHIN EACH DRAWING WHERE VISIBILITY IS CONTROLLED THROUGH THE PDF LAYER MANAGER. THIS LAYER VISIBILITY CAN BE TOGGLED DISPLAYING EITHER "COLOR" OR "BLACK AND WHITE". TO MAINTAIN SCOPE BASED SHADING WHEN PRINTING TO PAPER, BLACK AND WHITE NEEDS TO BE VISIBLE. FOR FURTHER INSTRUCTIONS, REFER TO CONTRACTOR RESOURCES ON OUR WEBSITE AND DOWNLOAD "DRAWING COLOR INSTRUCTIONS". WWW.KLHENGRS.COM - CONTRACTOR RESOURCES (RIGHT HAND SIDE OF PAGE).
ELECTRONIC DRAWING REQUEST	
	ELECTRONIC COPIES OF THESE DRAWINGS MAY BE REQUESTED AT: APPS.KLHENGRS.COM/DRAWINGREQUESTS.
PIPING LINE TYPES	
CD	CONDENSATE DRAIN
	SUPPLY MAIN OR BRANCH
	RETURN MAIN OR BRANCH
MECHANICAL DUCTWORK ACCESSORIES	
	ROUND ELBOW WITH TURNING VANES
	DUCT WITH MANUAL VOLUME DAMPER
	ELBOW WITH TURNING VANES
M	MOTOR OPERATED DAMPER - LINE VOLTAGE
M	MOTOR OPERATED DAMPER - LOW VOLTAGE
BD	BAROMETRIC DAMPER
FD 1.5 HR / F 1.5	FIRE DAMPER - 1.5 HR
FD 3.0 HR / F 3	FIRE DAMPER - 3 HR
SCD	SMOKE CONTROL DAMPER
S	DUCT MOUNTED SMOKE DETECTOR (HARD WIRE INTERLOCK TO FAN MOTOR BY E.C.) FURNISHED BY E.C., INSTALLED BY M.C.
S	SMOKE DAMPER
F 1.5 S	COMBINATION FIRE/SMOKE DAMPER - 1.5 HR
F 3 S	COMBINATION FIRE/SMOKE DAMPER - 3 HR

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
MECHANICAL MISCELLANOUS	
	CONNECT TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO MAKING CONNECTION)
UC 0'-1"	1" DOOR UNDERCUT
	POINT OF DEMOLITION TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO TERMINATING CONNECTION)
MECHANICAL STATS & SENSORS	
T	LOW VOLTAGE THERMOSTAT
T	LOW VOLTAGE THERMOSTAT WITH LOCKABLE GUARD
P	PRESSURE STAT
PS	PRESSURE SENSOR
CO2	CARBON DIOXIDE SENSOR
MECHANICAL AIR DEVICES	
SR	SUPPLY REGISTER
RR	RETURN REGISTER
ER	EXHAUST REGISTER
SG	SUPPLY GRILLE
RG	RETURN GRILLE
CD	CEILING DIFFUSER
CD-10"Ø	2'x2' SQUARE CEILING DIFFUSER WITH 10" NECK
RCD	ROUND CEILING DIFFUSER
	LINEAR SLOT DIFFUSER
MECHANICAL DUCTWORK	
UP	SUPPLY DUCT WITH ELBOW TURNED UP
DN	SUPPLY DUCT WITH ELBOW TURNED DOWN
UP	RETURN DUCT WITH ELBOW TURNED UP
DN	RETURN DUCT WITH ELBOW TURNED DOWN
UP	EXHAUST DUCT WITH ELBOW TURNED UP
DN	EXHAUST DUCT WITH ELBOW TURNED DOWN
24X12 SA	SUPPLY DUCT
24X12 RA	RETURN DUCT
24X12 EA	EXHAUST DUCT
24X12 OA	OUTSIDE AIR DUCT
	1" LINED DUCTWORK
	FLEXIBLE DUCTWORK CONNECTION
	BRANCH TAKEOFF
24"/12" RA	OVAL DUCT
	REDUCER, CONCENTRIC
	REDUCER, NONCONCENTRIC
	DUCT FLEX CONNECTOR

STANDARD HVAC ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ACCESS	ACCESSORIES
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
BAS	BUILDING AUTOMATION SYSTEM
BD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CLG	COOLING
CO	CARBON MONOXIDE
CO2	CARBON DIOXODE
COP	COEFFICIENT OF PERFORMANCE
CV	CONSTANT VOLUME
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DECIBELS
DB	DRY-BULB TEMPERATURE
DC	DISCONNECT
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE DELTA(CHANGE IN TEMPERATURE)
DIA	DIAMETER
DIW	DEIONIZED WATER
DP	DEW POINT TEMPERATURE
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EG	EXHAUST GRILLE
EMERG	EMERGENCY POWER
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX.	EXISTING
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
FA	FREE AREA
FD	FIRE DAMPER
FLA	FULL LOAD AMPERES
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
FURN	FURNISHED
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HOA	HAND/OFF/AUTOMATIC
HP	HORSEPOWER
HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)
HSTAT	HUMIDISTAT
HTG	HEATING
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IPLV	INTERGRATED PART LOAD VALUE
INST	INSTALLED
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)
LPS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MPR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)
MPS	MEDIUM PRESSURE STEAM
MRI	MAGNETIC RESONANCE IMAGING
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OCP	OVER CURRENT PROTECTION
PD	PRESSURE DROP
PPM	PARTS PER MILLION
PRS	PRESSURE REGULATING (VALVE) STATION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE
PSIG	POUNDS PER SQUARE INCH – GAGE
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SCD	SMOKE CONTROL DAMPER
SD	SMOKE DETECTOR
SENS	SENSIBLE HEAT
SP	STATIC PRESSURE
TAB	TESTING, ADJUSTING, BALANCE
TDH	TOTAL DYNAMIC HEAD
TDS	TOTAL DISSOLVED SOLIDS
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
UL	UNDERWRITERS LABORATORY
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
WB	WET-BULB (TEMPERATURE)
WG	WATER GAGE
WPD	WATER SIDE PRESSURE DROP
WIRE	WIRED

VENTILATION NOTES

A. EXISTING AHU WILL BE UNTOUCHED AND AHU AIR VALUES ARE CONSITANT FROM PREVOUSLY PERMITTED VENTILATION RATES. THIS SCOPE IS LIMITED TO MOVING VAV BOX LOCATIONS, T1REBALANCING OF EXISTING AIR DEVICES, REPLACING OLD WITH NEW AIR DEVICES, AND REBALANCING EXISTING VAV BOXES. EXISTING OCCUPANCY IS REMAINING THE SAME.

DUAL DUCT VAV SCHEDULE

PRODUCT				HEATING AIRFLOW		COOLING AIRFLOW	
MARK	DESCRIPTION	LOCATION	SECTION NUMBER	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)
M7	EXISTING DUAL DUCT VAV BOX	CHIEF ADMIN OFFICE	23 36 00.00	650	325	650	325
M10	EXISTING DUAL DUCT VAV BOX	RECEPTION & ENTRANCE VESTIBULE	23 36 00.00	1140	570	1140	570
M10	EXISTING DUAL DUCT VAV BOX	HEARING ROOM	23 36 00.00	1320	660	1320	660

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

PRODUCT							GENERAL	MISC					
MARK	DESCRIPTION	MANUFACTURER	MODEL	LENGTH (IN)	WIDTH (IN)	SECTION NUMBER	STATUS	MTG TYPE	MATERIAL TYPE	FINISH TYPE	DAMPER TYPE	BORDER STYLE	ACCESSORIES
CD-1	DIFFUSERS, REGISTERS AND GRILLES	TITUS	OMNI	24	24	23 37 13.00	NEW	CEILING	STEEL	FIELD PAINT COORDINATE COLOR WITH ARCHITECT	OPPOSED BLADE	SURFACE MOUNTED	--
EX-1	DIFFUSERS, REGISTERS AND GRILLES	TITUS	50F	24	24	23 37 13.00	NEW	CEILING	ALUMINUM	STANDARD WHITE	NONE	SURFACE MOUNTED	--
LD-1	DIFFUSERS, REGISTERS AND GRILLES	TITUS	FL-15	48	1.5	23 37 13.00	NEW	CEILING	ALUMINUM	FIELD PAINT COORDINATE COLOR WITH ARCHITECT	OPPOSED BLADE	SURFACE MOUNTED	FLOW BAR - SINGLE SLOT
LD-2	DIFFUSERS, REGISTERS AND GRILLES	TITUS	FL-20	48	2	23 37 13.00	NEW	CEILING	ALUMINUM	FIELD PAINT COORDINATE COLOR WITH ARCHITECT	OPPOSED BLADE	SURFACE MOUNTED	FLOW BAR - SINGLE SLOT
LR-1	DIFFUSERS, REGISTERS AND GRILLES	TITUS	FL-15	48	1.5	23 37 13.00	NEW	CEILING	ALUMINUM	FIELD PAINT COORDINATE COLOR WITH ARCHITECT	NONE	SURFACE MOUNTED	FBR RETURN HOOD SINGLE SLOT
LR-2	DIFFUSERS, REGISTERS AND GRILLES	TITUS	FL-20	48	2	23 37 13.00	NEW	CEILING	ALUMINUM	FIELD PAINT COORDINATE COLOR WITH ARCHITECT	NONE	SURFACE MOUNTED	FBR RETURN HOOD SINGLE SLOT

HVAC VENT SCHEDULE

NUMBER	NAME	AREA	LEVEL	CEILING HEIGHT	AIR CHANGES	OA CHANGES	# OF PEOPLE	OA PER PERSON	OA PER SQFT	REQ SA	ACT SA	REQ OA	ACT OA	ACT RETURN	ACT EXH	CRIT OA%	PRESSURE	% OPERABLE	NATURAL VENTILATION
105	CLERKS OFFICE 105	98	T.O. SLAB	8 1/2	0	0	1	5	0.06	105	110	21	21	110	0	12.3	NEUTRAL	0	--
106	BUDGET OFFICE 106	142	T.O. SLAB	8 1/2	0	0	1	5	0.06	125	130	25	25	130	0	13	NEUTRAL	0	--
107	RECEPTION 107	221	T.O. SLAB	9 1/5	0	0	7	5	0.06	185	400	78	78	400	0	15.1	NEUTRAL	0	--
111	AV 111	15	T.O. SLAB	8 1/2	0	0	0	5	0	0	0	0	0	0	400	0	NEGATIVE	0	--
114	ENTRANCE VESTIBULE 114	293	T.O. SLAB	9 4/5	0	0	0	5	0.06	115	500	97	97	500	0	4.4	NEUTRAL	0	--
115	HEARING ROOM 115	1068	T.O. SLAB	10	0	0	51	5	0.06	1005	1320	257	257	1320	0	25.9	NEUTRAL	0	--
116	CHIEF ADMIN OFFICE 116	180	T.O. SLAB	8 1/2	0	0	1	5	0.06	135	650	126	126	650	0	3	NEUTRAL	0	--

TOTAL AREA: 1957 SF

HVAC EXHAUST FAN SCHEDULE

PRODUCT						GENERAL		AIRFLOW				ELECTRICAL	MISC	ELECTRICAL																		PRODUCT
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	SECTION NUMBER	AREA SERVED	STATUS	EA (CFM)	ESP (IN. W.C.)	FAN BHP	FAN MTR SPEED (RPM)	EMERGENCY	ACCESSORIES	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY	CN TYPE	CN FURNISHED BY	CN INSTALLED BY	CN WIRED BY	MC TYPE	MC FURNISHED BY	MC INSTALLED BY	MC WIRED BY	DC TYPE	DC FURNISHED BY	DC INSTALLED BY	DC WIRED BY	FA SHUTDOWN	REQUIRED TO MEET FAULT CURRENT	FAULT CURRENT	EMERGENCY	MARK
EF-1	HVAC EXHAUST FAN	GREENHECK	SQ-90-VG	34	23 34 00.00	AV 111	NEW	400	0.5	0.08	1638	NO	--	EF-1	EF-1 - 120V/1PH, 0.167 HP, 2.8A FLA, 3.5 MCA, 15A OCP	INLINE	MC	MC	MC	ECM	MFR	MFR	MFR	DC	EC	EC	EC	NONE	FALSE	EF-1 3707	FALSE	EF-1

MIAMI COUNTY EF-1 SEQUENCE OF OPERATIONS

1. HEAT EXTRACTION
   A. EF-1 SHALL OPERATE AT 80 CFM OR AT FAN MINIMUM SPEED CONTINUOUSLY.
   B. EF-1 SHALL MODULATE TO MAINTAIN THE HEAT EXTRACTION SETPOINT 80 DEG. (ADJ) UTILIZING NEW LOCAL REVERSE ACTING THERMOSTAT.

REVISIONS :

Number	Description	Date

PRINTINGS :

BID & PERMIT REVIEW DOCUMENTS	10/3/25

KLH ENGINEERS
KOHRS LONNEMANN HEIL ENGINEERS, INC.
1538 ALEXANDRIA PIKE, SUITE 11
FT. THOMAS, KENTUCKY 41075
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MECHANICAL/ELECTRICAL ENGINEERS
WWW.KLHENGRS.COM
LEXINGTON, KENTUCKY
LOUISVILLE, KENTUCKY
COLUMBUS, OHIO

MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

201 W Main ST, Troy, OH 45373

MIAMI COUNTY COMMISSIONERS OHIO HOME. GROWN. GREAT.

PROJECT NO: 27619
CHECKED BY: AJK
DRAWN BY: JJK
DATE: 10/3/25

LEVIN PORTER ARCHITECTS
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Levin Porter Associates Inc. dba Levin Porter Architects

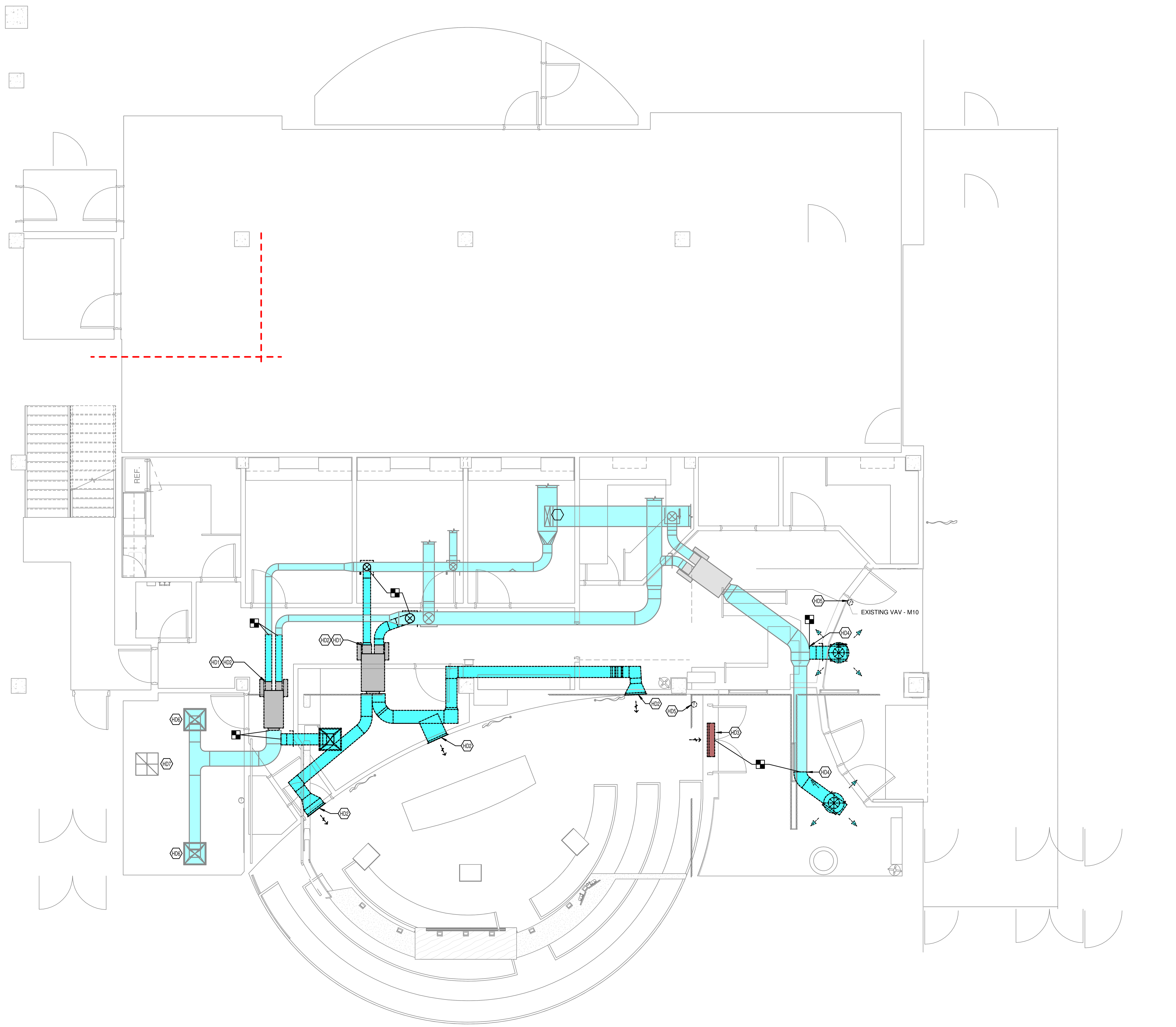
MECHANICAL COVER SHEET

M001

10/9/2025 10:08:07 AM

KEYED NOTES

HD1	EXISTING VAV BOX TO BE RELOCATED. SEE NEW WORK PLAN FOR NEW LOCATION.
HD2	DEMOLISH EXISTING DUCTWORK, AIR DEVICES, AND HARDWARE NOT BEING REUSED DURING THE NEW WORK PHASE.
HD3	DEMOLISH RETURN GRILLE. COORDINATE WITH GC TO PATCH AND SEAL WALL.
HD4	PATCH AND SEAL AIR TIGHT PER SMACNA. REPAIR / REPLACE INSULATION AS REQUIRED.
HD5	EXISTING THERMOSTAT TO BE RELOCATED DURING NEW WORK PHASE.
HD6	SAVE EXISTING AIR DEVICE FOR NEW WORK. EXISTING DUCTWORK TO BE MODIFIED TO RECONNECT DUCTWORK WITH EXISTING AIR DEVICES ALIGNED IN NEW CEILING GRID.
HD7	EXISTING RETURN GRILLE TO BE REUSED DURING NEW WORK PHASE.



1 MECHANICAL PLAN - T.O. SLAB - OVERALL
1/4" = 1'-0"

REVISIONS :

Number	Description	Date

PRINTINGS :

BID & PERMIT REVIEW DOCUMENTS	10/3/25

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Levin Porter Associates Inc. dba Levin Porter Architects

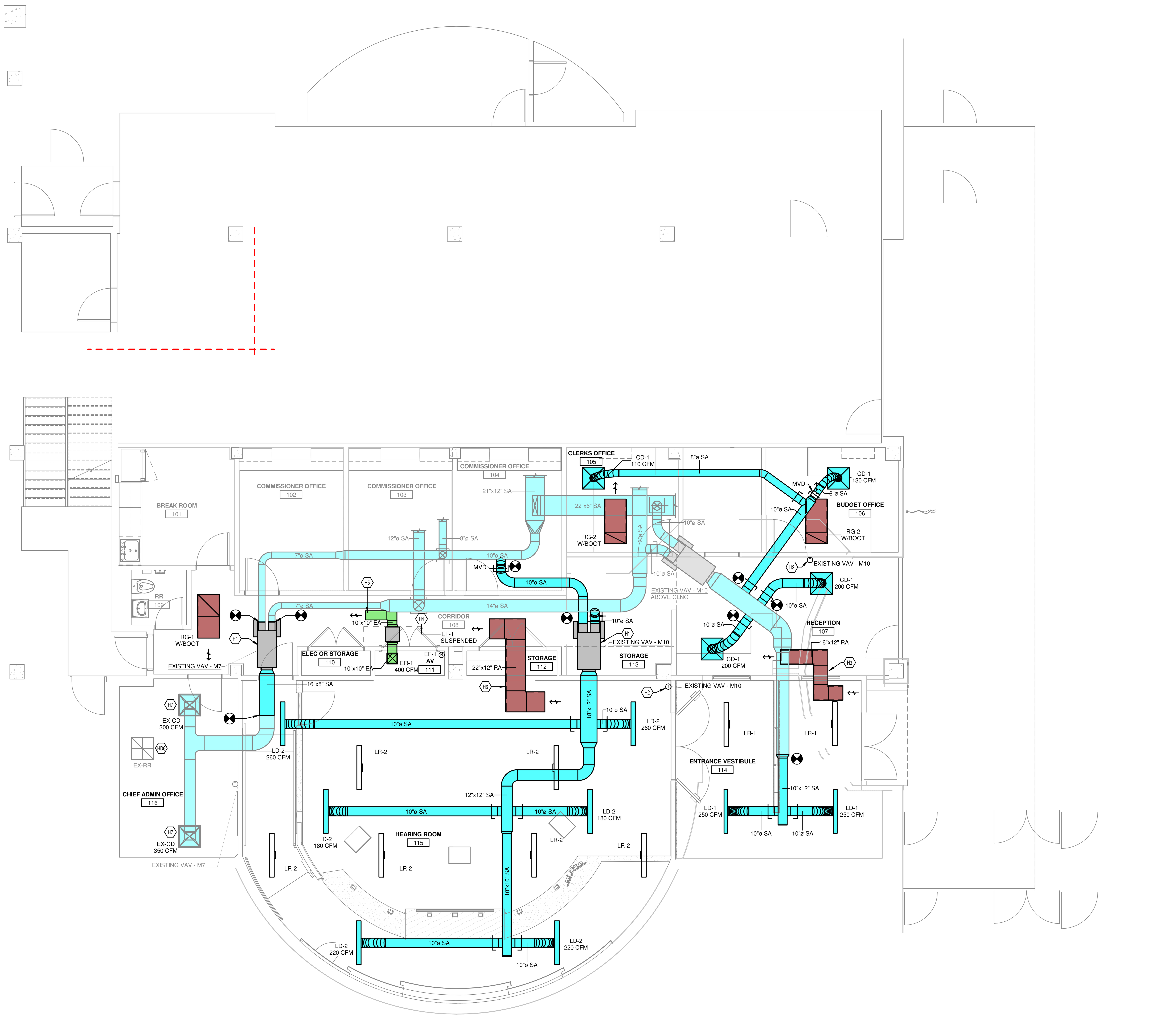
MECHANICAL DEMO PLAN

M1101

10/9/2025 10:08:16 AM

KEYED NOTES

H1	EXISTING DUAL DUCT VAV BOX TO BE RELOCATED. EXISTING DUCTWORK TO BE MODIFIED.
H2	RELOCATE EXISTING THERMOSTAT FOR EXISTING VAV TO NEW LOCATION. EXTEND CONTROL WIRING AS NECESSARY.
H3	1" ACOUSTICAL DUCT LINING TO BE ADDED THROUGHOUT ENTIRETY OF TRANSFER DUCTWORK.
H4	ARCHITECT TO COORDINATE DOOR LOUVERS IN AV CLOSET DOOR. ENSURE DOOR LOUVER HAS A MINIMUM OF 1 SF OF FREE AREA.
H5	PROVIDE EXHAUST FAN AS SCHEDULED. BALANCE TO THE SCHEDULE AIRFLOW. EXHAUST FAN SHALL DISCHARGE HEAT EXTRACTION AIR INTO PLENUM.
H6	RETURN GRILLE WITH LINED BOOT. REFER TO DETAIL FOR SIZE.
H7	MODIFY DUCTWORK AND AIR DEVICE CONNECTION AS NECESSARY TO REALIGN EXISTING AIR DEVICE INTO NEW GRID.
HD6	SAVE EXISTING AIR DEVICE FOR NEW WORK. EXISTING DUCTWORK TO BE MODIFIED TO RECONNECT DUCTWORK WITH EXISTING AIR DEVICES ALIGNED IN NEW CEILING GRID.



1 MECHANICAL PLAN - T.O. SLAB - OVERALL
1/4" = 1'-0"

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MECHANICAL DUCTWORK PLAN

M3101

10/9/2025 10:08:26 AM

ELECTRIC LEGEND

SYMBOL	DESCRIPTION
LIGHTING AND LIGHTING CONTROLS	
	LUMINAIRE (REFER TO THE LUMINAIRE SCHEDULE) NOTE THAT OTHER SHAPES MAY ALSO BE USED TO REPRESENT LUMINAIRES
	SHADED LUMINAIRES DENOTE THOSE CONNECTED TO EMERGENCY OR STANDBY POWER AS APPLICABLE (UNSWITCHED LUMINAIRES ARE EGRESS LIGHTS AND/OR NIGHT-LIGHTS THAT OPERATE 24/7)
WALL MOUNT	SINGLE / DOUBLE SIDED EXIT SIGN CONNECT AHEAD OF SWITCHING & CONFIGURE ARROWS TO INDICATE DIRECTION OF EGRESS TRAVEL
A a NL EL	A = LUMINAIRE TYPE, NL = NIGHT-LIGHT (UNSWITCHED), a = SWITCHING DESIGNATION, EL = EGRESS LUMINAIRE (ILLUMINATES PATH OF EGRESS, UNSWITCHED UNLESS OTHERWISE NOTED)
	LIGHTING SWITCH (KEYS: 2 = 2-POLE, 3 = 3-WAY, 4 = 4-WAY, D=DIMMER, K=KEYED, T = TIMER SWITCH, M = MOMENTARY-CONTACT, P = SWITCH W/PILOT LIGHT)
TYPE	CEILING-MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED BY TYPE. TYPE "IR" = INFRARED, TYPE "US" = ULTRASONIC
TYPE#	WALL-MOUNTED OCCUPANCY SENSOR SWITCH. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED BY TYPE. TYPE "IR"=INFRARED, TYPE "US"=ULTRASONIC, "V"=VACANCY SENSOR, "D" = DIMMED.
LCP#	LIGHTING CONTROL PANEL
KEY	LIGHTING CONTROL DIGITAL SWITCH OR CONTROL INTERFACE. "KEY" DENOTES SWITCH DESIGNATION DETAILED ON DRAWINGS
LT	EMERGENCY LIGHTING TRANSFER SWITCH DEVICE - 20A BRANCH CIRCUIT RATED
RECEPTACLES AND MISCELLANEOUS OUTLETS	
	SINGLE ("SIMPLEX"), DUPLEX, AND DOUBLE DUPLEX ("QUAD") RECEPTACLE RESPECTIVELY
	GFI / GFCI RECEPTACLES
	REGRESSED ("CLOCK HANGER") RECEPTACLES
	CEILING MOUNTED RECEPTACLES
TYPE	FLOOR OUTLET - POWER AND / OR TECHNOLOGY
	POWER WHIP CONNECTION TO SYSTEM FURNITURE
H C T 42" W SW L	RECEPTACLE ATTRIBUTES 42" = MOUNT RECEPTACLE AT THIS HEIGHT ABOVE GRADE / FINISHED FLOOR C = INSTALL ABOVE COUNTER AND BACKSPLASH H = INSTALL RECEPTACLE HORIZONTALLY L = LIT (PROVIDE ILLUMINATED FACE OR INDICATOR LIGHT TO INDICATE THERE IS POWER TO RECEPTACLE) SW = SPLIT WIRED T = TAMPER-RESISTANT W = WEATHER PROOF WHILE IN USE COVER AND WEATHER RESISTANT RECEPTACLE

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
FIRE ALARM DEVICES	
cd	FIRE ALARM SYSTEM HORN / STROBE DEVICE (PROVIDE CANDELA (cd) RATING FOR STROBE AS INDICATED ON DRAWINGS)
cd C	FIRE ALARM SYSTEM CEILING / OVERHEAD MOUNTED HORN / STROBE DEVICE (PROVIDE CANDELA (cd) RATING FOR STROBE AS INDICATED ON DRAWINGS)

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION
TECHNOLOGY (ROUGH-IN ONLY)	
COORDINATE WITH SYSTEM INSTALLERS PRIOR TO INSTALLATION FOR LOCATIONS, HEIGHTS, CONDUIT TERMINATIONS, ETC. ALL OUTLET BOXES FOR ROUGH-IN SHALL BE MINIMUM 2-1/4" DEEP.	
	SECURITY DEVICE - KEYPAD, PROXIMITY READER RESPECTIVELY LEFT TO RIGHT - PROVIDE 4"X4" BOX WITH 1-GANG RING AND (1) 1" CONDUIT TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.
EM	EMERGENCY TWO-WAY COMMUNICATIONS MASTER STATION - INSTALL ADJACENT TO FIRE ALARM ANNUNCIATION PANEL. COORDINATE BACKBOX REQUIREMENTS WITH SYSTEM PROVIDER. PROVIDE (2) 1" CONDUITS TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.
EC	EMERGENCY TWO-WAY COMMUNICATIONS CALL STATION - COORDINATE BACKBOX REQUIREMENTS WITH SYSTEM PROVIDER. PROVIDE (1) 1" CONDUIT TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.
	ENTRANCE SECURITY INTERCOM DEVICE - COORDINATE BACKBOX REQUIREMENTS WITH SYSTEM PROVIDER. PROVIDE (1) 1" CONDUIT TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.
	RESIDENTIAL STRUCTURED MEDIA ENCLOSURE WITH COVER - SEE RESIDENTIAL LOW VOLTAGE CABLING DETAILS FOR ADDITIONAL PATHWAY REQUIREMENTS. ENCLOSURE AND COVER SHALL BE PLASTIC IN CONSTRUCTION FOR WIRELESS TRANSPARENCY.

ELECTRIC LEGEND

SYMBOL	DESCRIPTION
MISCELLANEOUS	
T TS	LOW VOLTAGE THERMOSTAT (LEFT) AND TEMPERATURE SENSOR (RIGHT)
T R	LINE VOLTAGE THERMOSTAT (LEFT) AND REVERSE ACTING THERMOSTAT (RIGHT)
	INDICATES DIRECT CONNECTION TO EQUIPMENT
$ $MS $MSR	MOTOR RATED TOGGLE SWITCH, MANUAL STARTER WITH PILOT LIGHT, AND MANUAL STARTER WITH PILOT LIGHT WITH EXTERNAL RELAY FOR CONTROL OR MONITORING RESPECTIVELY - ALL MAY BE KEYED "K"
	HEAVY DUTY DISCONNECT SWITCH (NON-FUSED) (LEFT) HEAVY DUTY DISCONNECT SWITCH (FUSED) (RIGHT)
	ELECTRICAL PANELBOARD OR DISTRIBUTION BOARD (DIMENSIONS MAY VARY / FLUSH OR SURFACE MOUNTED AS INDICATED)
SINGLE LINE DIAGRAM	
	GROUNDING ELECTRODE PER NFPA 70 ARTICLE 250 MINIMUM
	ELECTRICAL PANELBOARD OR DISTRIBUTION BOARD
	ELECTRICAL SWITCHBOARD OR SWITCHGEAR
	SURGE PROTECTIVE DEVICE

ELECTRIC LEGEND

SYMBOL	DESCRIPTION
WIRE / CABLE / RACEWAY	
LPA-1,3	BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER(S)
	CABLING / RACEWAY INSTALLED CONCEALED IN WALLS OR ABOVE CEILING
	CABLING / RACEWAY INSTALLED BELOW FLOOR OR GRADE
	JUNCTION BOX ABOVE ACCESSIBLE CEILING JUNCTION BOX AT OVERHEAD STRUCTURE IN AREAS WITH NO CEILING
	FLUSH MOUNTED JUNCTION BOX OR PULL BOX AS APPLICABLE FOR APPLICATION
	FLUSH MOUNTED PULL BOX
UP DN	CONDUIT UP OR DOWN

ABBREVIATIONS

42"	DISTANCE ABOVE FINISHED FLOOR / GRADE / PAVEMENT	LR	LEGALLY REQUIRED STANDBY
AF	AMP FRAME OF FUSED SWITCH OR CIRCUIT BREAKER	LI	LONG - INSTANTANEOUS
AFCI	ARC-FAULT CIRCUIT INTERRUPTER	LSI	LONG - SHORT - INSTANTANEOUS
AT	AMP TRIP OF FUSED SWITCH OR CIRCUIT BREAKER	LSIG	LONG - SHORT - INSTANTANEOUS - GROUND FAULT
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
BAS	BUILDING AUTOMATION SYSTEM	MFR	MANUFACTURER
C.T.C.	WORK UNDER DIVISION 27 OR 28 AS APPLICABLE	MLO	MAIN LUGS ONLY
C/B	CIRCUIT BREAKER	MTS	MANUAL TRANSFER SWITCH
C / CH	COUNTER HEIGHT OR SPECIAL HEIGHT DEVICE	MW	MICROWAVE OVEN
DW	DISHWASHER	NIC	NOT IN CONTRACT (SHOWN FOR REFERENCE ONLY)
E	EMERGENCY	NTS	NOT TO SCALE
E.C.	WORK UNDER DIVISION 26	OFE	OWNER-FURNISHED EQUIPMENT - INSTALLED AND WIRED BY E.C.
EMS	ENERGY MANAGEMENT SYSTEM	OS	OPTIONAL STANDBY
EPO	EMERGENCY POWER OFF	P.C.	WORK UNDER DIVISION 22
ER	EQUIPMENT ROOM	(R)	RELOCATE
ERM	ENERGY REDUCTION MAINTENANCE SWITCH	S.C.	WORK UNDER DIVISION 21
ESP	EMERGENCY STANDBY RATING	SCCR	SHORT CIRCUIT CURRENT RATING
ETR	EXISTING TO REMAIN	SPD	SURGE PROTECTIVE DEVICE
EWC	ELECTRIC WATER COOLER	ST	SHUNT TRIP
EX.	EXISTING	TAAC	TO ABOVE ACCESSIBLE CEILING
FBO	FURNISHED BY OTHERS - INSTALLED AND WIRED BY E.C.	T	TAMPER RESISTANT
FIBO	FURNISHED AND INSTALLED BY OTHERS - WIRED BY E.C.	TTB	TELEPHONE TERMINAL BOARD
FP	RECEPTACLE TO BE USED FOR A FLAT PANEL DISPLAY.	TYP	TYPICAL
FWE	FURNISHED WITH EQUIPMENT BY OTHERS - INSTALLED AND WIRED BY E.C.	UCR	UNDER COUNTER REFRIGERATOR
		UL	UNDERWRITER'S LABORATORY
		U.L.S.E.	LISTED FOR SERVICE ENTRANCE
		UNO	UNLESS NOTED OR INDICATED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS
GD	GARBAGE DISPOSAL		
GFEP	GROUND FAULT EQUIPMENT PROTECTION		
GFI / GFCI	GROUND FAULT CIRCUIT INTERRUPTER DEVICE	VFD / VSD	VARIABLE FREQUENCY / SPEED DRIVE
GND	GROUND	VIF	VERIFY IN FIELD
		VM	VENDING MACHINE
H.C.	WORK UNDER DIVISION 23	VP	VANDAL PROOF
H.O.A.	"HAND - OFF - AUTO" SWITCH		
		W / WP	WEATHERPROOF
IG	ISOLATED GROUND	WG	WIRE GUARD
Isc	SHORT CIRCUIT CURRENT	WR	WEATHER RESISTANT
		X	RATED FOR CLASSIFIED LOCATION

PLAN-VIEW AND GRAPHIC LINE TYPES

WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK
(UNLESS OTHERWISE INDICATED)

WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE
(UNLESS OTHERWISE INDICATED)

WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK
(UNLESS OTHERWISE INDICATED)

DRAWING SET APPEARANCE

TO BETTER COMMUNICATE SCOPE TO PERMIT AGENCIES AND CONTRACTORS, EACH DRAWING IN THIS DRAWING SET HAS BEEN CREATED IN BOTH "COLOR" AND "BLACK AND WHITE". THERE EXISTS A COLOR LAYER WITHIN EACH DRAWING WHERE VISIBILITY IS CONTROLLED THROUGH THE PDF LAYER MANAGER. THIS LAYER VISIBILITY CAN BE TOGGLED DISPLAYING EITHER "COLOR" OR "BLACK AND WHITE". TO MAINTAIN SCOPE BASED SHADING WHEN PRINTING TO PAPER, BLACK AND WHITE NEEDS TO BE VISIBLE.
FOR FURTHER INSTRUCTIONS, REFER TO CONTRACTOR RESOURCES ON OUR WEBSITE AND DOWNLOAD "DRAWING COLOR INSTRUCTIONS".
WWW.KLHENGRS.COM - CONTRACTOR RESOURCES (RIGHT HAND SIDE OF PAGE).

ELECTRONIC DRAWING REQUEST

ELECTRONIC COPIES OF THESE DRAWINGS MAY BE REQUESTED AT:
APPS.KLHENGRS.COM/DRAWINGREQUESTS.

ELECTRIC DESIGN CRITERIA

APPLICABLE BUILDING CODES

OEBC (2024) OHIO EXISTING BUILDING CODE
IECC (2021) INTERNATIONAL ENERGY CONSERVATION CODE
NFPA 70 (2023) NATIONAL ELECTRIC CODE
NFPA 72 (2022) NATIONAL FIRE ALARM & SIGNALING CODE

TESTING/COMMISSIONING FOR LIGHTING CONTROLS

LIGHTING CONTROL DEVICES AND SYSTEMS SHALL BE TESTED TO ENSURE THE HARDWARE AND SOFTWARE IS CALIBRATED, PROGRAMMED, AND IN PROPER WORKING ORDER. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED INSTALLATION REPORTS AND CERTIFICATES (LIGHTING CONTROLS SYSTEM AS SHALL BE PERFORMED IN WHICH CASE THE COMMISSIONING PROVIDER SHALL BE RESPONSIBLE FOR ALL REPORTS, CERTIFICATES, ETC.) AND SHALL PROVIDE MANUALS FOR LIGHTING CONTROL DEVICES TO OWNER PRIOR TO PROJECT CLOSE-OUT AND ALSO INCLUDE THE NAME AND ADDRESS OF AT LEAST ONE SERVICING AGENCY FOR THE LIGHTING CONTROL EQUIPMENT. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH APPROPRIATE PARTIES TO ARRANGE FOR TESTING OF THE LIGHTING CONTROL SYSTEMS AND SHALL BE RESPONSIBLE FOR ENSURING ALL REQUIRED FUNCTIONAL PERFORMANCE TESTING FORMS/REPORTS ARE COMPLETED AND SUBMITTED TO THE OWNER AND LOCAL AHJ PRIOR TO PROJECT CLOSE-OUT (NO LATER THAN WITHIN 90 DAYS OF PROJECT CLOSEOUT). FUNCTIONAL PERFORMANCE TESTING OF LIGHTING CONTROLS SHALL FOLLOW THE REQUIREMENTS LISTED IN THE APPLICABLE ENERGY CODE INCLUDING (BUT NOT LIMITED TO) VERIFICATION OF THE PERFORMANCE OF OCCUPANCY SENSORS, AUTOMATIC TIME SWITCHES, AND DAYLIGHT HARVESTING CONTROLS.

GENERAL ELECTRICAL INSTALLATION NOTES

A. CODE COMPLIANCE: PROVIDE ALL ELECTRICAL WORK COMPLIANT WITH ALL PREVAILING CODES.
B. LISTINGS: PROVIDE MATERIALS, COMPONENTS AND ASSEMBLED COMPONENTS WITH LISTINGS AND LABELS FROM A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), MANUFACTURED, LISTED AND LABELED FOR THEIR INTENDED USE.
C. RATED BUILDING SURFACES: SEPARATE DEVICE BOXES BY A MINIMUM OF 6 INCHES WHERE INSTALLED BACK-TO-BACK WITHIN DEMISING WALLS TO MAINTAIN REQUIRED FIRE AND SOUND RATING (TYPICAL OF ALL DEVICE BOXES INSTALLED ON DEMISING WALLS). PROVIDE LISTED FIRE-RATED BOXES WHERE INSTALLED IN ALL RECESSED OUTLET, DEVICE AND EQUIPMENT BOXES IN FIRE/SMOKE RATED WALLS, CEILINGS AND FLOORS TO MEET OR EXCEED THE RESPECTIVE FIRE/SMOKE RATING OF THE SURFACE.
D. RATED PENETRATIONS: SEAL ALL PENETRATIONS THROUGH FIRE-RATED AND/OR SMOKE-RATED MEMBRANES (FLOORS, WALLS, CEILINGS, ETC.) USING SEALANT PRODUCTS THAT MEET OR EXCEED THE RATING OF THE RESPECTIVE MEMBRANE.
E. GANGED DEVICES: INSTALL WIRING DEVICES GANGED WHEREVER POSSIBLE FOR INSTANCES WHERE THEY ARE SHOWN TOGETHER. THIS INCLUDES LOCATIONS ABOVE COUNTERS AND WORK SURFACES WHERE APPLICABLE.
F. OUTLET BOXES NEAR CORNERS: INSTALL WALL-MOUNTED SWITCHES, CONTROLS, RECEPTACLES, OUTLETS, ETC. AT LEAST 6 INCHES FROM WALL CORNERS.
G. CONCEALMENTS: CONCEAL ALL CONDUIT DROPS AND RISES WITHIN WALLS, AND PROVIDE FLUSH-MOUNTED WALL OUTLET BOXES UNLESS OTHERWISE INDICATED.
H. DOCUMENTS OF OTHER TRADES: REVIEW DOCUMENTS OF OTHER TRADES, INCLUDING ARCHITECTURAL, PRIOR TO SUBMITTING A BID. PROVIDE ELECTRICAL WORK FOR EQUIPMENT, DEVICES, ETC. OF OTHER TRADES AS REQUIRED TO RENDER THEM FULLY OPERATIONAL. REFER TO ARCHITECTURAL ELEVATIONS FOR INTENDED LOCATIONS AND MOUNTING HEIGHTS FOR EQUIPMENT AND OUTLETS, ETC. PRIOR TO COMMENCING WITH ANY RELATED ROUGH-IN WORK.
I. SCHEMATIC REPRESENTATIONS: CIRCUITING WORK SHOWN ON DRAWINGS IS FOR SCHEMATIC GENERAL GRAPHIC REPRESENTATION ONLY. DETERMINE SPECIFICS IN FIELD (POINT-TO-POINT ROUTING, HOME-RUN LOCATIONS, METHODS OF CONCEALMENT, ETC.). LOCATIONS AND ROUTING INDICATED ON PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. LAYOUT AND INSTALL ALL ELECTRICAL WORK IN STRICT COMPLIANCE WITH CHAPTER 1, PART II, ARTICLE 110.26 OF THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70).
J. HOME-RUN DESIGNATIONS: HOME-RUN DESIGNATIONS INDICATED ON PLANS ARE SCHEMATIC DESIGNATIONS ONLY. DETERMINE EXACT CIRCUIT ASSIGNMENTS IN FIELD BASED ON FIELD CONDITIONS. PROVIDE COLOR-CODED CONDUCTOR INSULATION ACCORDINGLY. CODED PROPERLY DEPENDING ON SYSTEM, PHASE, NEUTRAL, ETC. PROVIDE EQUIPMENT AND PANELBOARD SCHEDULES THAT ACCURATELY INDICATE INSTALLED CONDITIONS.
K. LOCAL DISCONNECTS AND CONTROLS AT EQUIPMENT: LOCAL DISCONNECTS AND LOCAL CONTROLS SHOWN AT OR ON EQUIPMENT IN PLAN-VIEW ARE SHOWN FOR SCHEMATIC ASSOCIATIONS ONLY. AVOID INSTALLING DISCONNECTS OR CONTROLS ON EQUIPMENT ENCLOSURES. INSTALL ON ADJACENT WALLS OR BUILDING STRUCTURE, OR PROVIDE FIELD-FABRICATED UNISTRUT OR EQUIVALENT ASSEMBLIES AS NEEDED. PROVIDE FIELD COORDINATION WITH SITE CONDITIONS AND OTHER TRADES, AND PROVIDE ALL RELATED WORK IN STRICT COMPLIANCE WITH NFPA 70, INCLUDING ARTICLE 110.26. PROVIDE A PERMANENT LABEL ON LOCAL DISCONNECTS NOTING THE EQUIPMENT IT SERVES AND THE PANEL AND CIRCUIT NUMBER FEEDING THE EQUIPMENT PER NFPA 70, ARTICLE 110.22(A).
L. EQUIPMENT & LOAD COORDINATION: REFER TO AND COORDINATE WITH POWER FLOOR PLANS, EQUIPMENT SCHEDULES (INCLUDING EQUIPMENT COORDINATION SCHEDULES), DRAWINGS OF ALL TRADES, ALL DIVISIONS AND SECTIONS OF SPECIFICATIONS AND INSTALLERS OF ALL TRADES. BASED ON ACTUAL EQUIPMENT BEING PROVIDED, DETERMINE AND PROVIDE APPROPRIATE BREAKERS, FUSES, CONDUCTORS, CONTROLS, POWER DISTRIBUTION EQUIPMENT, ETC. PERFORM THESE SERVICES PRIOR TO FURNISHING POWER DISTRIBUTION EQUIPMENT SUBMITTALS.
M. EXTERIOR ELECTRICAL WORK AND WORK SUBJECT TO MOISTURE: EXTERIOR ELECTRICAL WORK SHALL BE WEATHERPROOF AND WATER-TIGHT, AND SHALL BE RUST-RESISTANT. PROVIDE XHHW-2 CONDUCTORS FOR ALL APPLICATIONS THAT ARE BELOW GRADE OR SUBJECT TO MOISTURE. PROVIDE MINIMUM NEMA 3R ENCLOSURES FOR ALL OUTDOOR EQUIPMENT AND ALL INDOOR EQUIPMENT THAT IS SUBJECT TO MOISTURE. PROVIDE NEMA 1 ENCLOSURES FOR ALL OTHER INDOOR EQUIPMENT.
N. EQUIPMENT GROUNDING CONDUCTORS: PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN STRICT COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), INCLUDING ARTICLE 250 AND TABLE 250.122. THESE CONDUCTORS MAY OR MAY NOT BE INDICATED ON SINGLE-LINE DIAGRAMS OR ELSEWHERE, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.
O. OVERHEAD WORK: HOLD ALL NEW OVERHEAD ELECTRICAL WORK AS TIGHTLY AS POSSIBLE TO THE BOTTOM OF THE OVERHEAD STRUCTURE. DO NOT INSTALL ANY ELECTRICAL WORK WITHIN SIX INCHES OF ROOF DECKING.
P. COORDINATION DRAWINGS: LAYOUT ALL PROPOSED RACEWAY ROUTING, ELEVATIONS, INSTALLATION METHODS, ETC. ON COORDINATION DRAWINGS AND COORDINATE ALL PROPOSED RACEWAY ROUTING WITH ALL AFFECTED TRADES PRIOR TO COMMENCING WITH WORK. IN ADDITION, REVIEW THE INFORMATION WITH ARCHITECT, ENGINEER AND OWNER FOR ALL AREAS WHERE THE RACEWAYS WILL BE VISIBLE AFTER COMPLETION OF CONSTRUCTION.
Q. JUNCTION AND PULL BOXES: LOCATE JUNCTION AND PULL BOXES SO THAT THEY REMAIN ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO COMMENCEMENT OF THE WORK. LOCATE BOXES IN A MANNER THAT AVOIDS HAVING TO USE ACCESS PANELS. IF ACCESS PANELS ARE INEVITABLE, PROVIDE THEM RATED TO MEET OR EXCEED THE FIRE AND/OR SMOKE RATINGS OF THE RESPECTIVE CEILING OR WALL, AND OBTAIN APPROVAL OF DESIGN PROFESSIONALS FOR EACH LOCATION.
R. CONDUCTOR TERMINATIONS: IN CASES WHERE CONDUCTOR SIZES ARE TOO LARGE TO FIT INTO LUGS/TERMINALS, PROVIDE APPROPRIATE FACTORY LUG KITS FOR AFFECTED EQUIPMENT IF AVAILABLE. ELSEWHERE, PROVIDE INSULATED BUTT-SPLICES OR EQUIVALENT METHOD, WITH TAILS SIZED TO FIT LUGS/TERMINALS. PROVIDE SPLICES IN SEPARATE BOXES IF REQUIRED BASED ON FIELD CONDITIONS. BOX SIZE LIMITATIONS, ETC. CONCEAL BOXES IN ACCESSIBLE OVERHEAD JOIST SPACES IN FINISHED REGULARLY OCCUPIED AREAS.
S. TYPE MC, AC, NM, SE CABLE: WHERE MORE THAN TWO TYPE MC, AC, NM, OR SE CABLES CONTAINING TWO OR MORE CURRENT CARRYING CONDUCTORS IN EACH CABLE ARE INSTALLED IN CONTACT WITH THERMAL INSULATION, CAULK, OR SEALING FOAM MAINTAIN SPACING BETWEEN CABLES.

EXISTING CONDITIONS - GENERAL NOTES

A. INTENT OF DOCUMENTS: EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON VISUAL FIELD OBSERVATIONS AND THE REVIEW OF PREVIOUS DRAWINGS THAT MAY NOT HAVE BEEN CERTIFIED "AS-BUILTS". IT IS NOT THE INTENT OF THE ELECTRICAL DOCUMENTS THAT EXISTING CONDITIONS BE ACCURATELY SHOWN. EXISTING ELECTRICAL WORK IS SHOWN TO A VERY LIMITED EXTENT ON THE DRAWINGS AND IS SHOWN FOR GENERAL PLANNING REFERENCE ONLY.
B. PRE-BID SURVEY: PERFORM A DETAILED PRE-BID WALK-THROUGH FIELD INSPECTION AND SURVEY TO REVIEW THE EXISTING STRUCTURES AND PREMISES, TO ACCURATELY DETERMINE EXISTING CONDITIONS, AND TO DETERMINE SCOPE OF REQUIRED ELECTRICALLY RELATED WORK. INCLUDE APPLICABLE ACCESSIBLE CEILING CAVITY AREAS IN THIS INSPECTION.
C. REUSE OF REMOVED MATERIALS: DO NOT REUSE REMOVED ELECTRICAL MATERIALS UNLESS SPECIFICALLY INDICATED IN PROJECT DOCUMENTS. EXISTING WIRING SYSTEMS MAY BE UTILIZED ONLY TO THE EXTENT INDICATED IN PROJECT DOCUMENTS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE IN FIELD.
D. EXISTING POWER DISTRIBUTION EQUIPMENT: WHERE MODIFICATIONS ARE MADE TO EXISTING POWER DISTRIBUTION EQUIPMENT, COMPLETELY RE-TYPE PANELBOARD DIRECTORIES USING ACCURATE "AS-BUILT" INFORMATION. WHEN ADDING COMPONENTS TO EXISTING POWER DISTRIBUTION EQUIPMENT, PROVIDE FULL SIZE (NO SPLIT OR TANDEM DEVICES) OVERCURRENT PROTECTION DEVICES (OCPs) TO MATCH THOSE ALREADY IN PLACE, INCLUDING MANUFACTURER, MODEL/SERIES, SHORT CIRCUIT CURRENT (SCCR/AIC) RATINGS. PROVIDE COMMON TRIPS (NO FIELD-INSTALLED HANDLE TIES) IN THE SAME GUTTER FOR MULTI-POLE DEVICES. PROVIDE SWITCHING DUTY (SWD), HACR AND HID RATINGS WHERE APPLICABLE FOR LOADS. PROVIDE HANDLE LOCK-ON DEVICES FOR EMERGENCY AND CRITICAL LOADS.
E. EXISTING BRANCH CIRCUITS: MAINTAIN, AND RECONNECT IF REQUIRED, BRANCH CIRCUITS THAT ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. ALL CIRCUIT DESIGNATIONS SHOWN ON THE DRAWINGS INDICATE NEW CIRCUIT ASSIGNMENTS, NOT EXISTING. WHERE COLOR CODING OF BRANCH CIRCUIT CONDUCTORS DOES NOT COMPLY WITH NFPA 70 OR IS NOT CONSISTENT WITH EXISTING CONDITIONS, MODIFY TO COMPLY.
F. ADDED LOADS TO EXISTING CIRCUITS: IN CASES WHERE NEW LOADS ARE INDICATED TO BE CONNECTED TO EXISTING CIRCUITS WITH EXISTING LOADS, METER THE EXISTING CIRCUIT IN ADVANCE AND ENSURE THE EXISTING PLUS ADDED LOAD DOES NOT EXCEED 80 PERCENT OF THE SOURCE CIRCUIT BREAKER AMPERE RATING. IF THAT LOAD IS EXCEEDED, NOTIFY DESIGN PROFESSIONAL.
G. REASSIGNMENT OF EXISTING CIRCUITS: IN CASES WHERE EXISTING CIRCUITS ARE REUSED (BASED ON INFORMATION SHOWN ON DRAWINGS OR BASED ON FIELD CONDITIONS) BUT MUST BE CONNECTED TO BREAKERS OTHER THAN THEIR ORIGINAL BREAKER, MODIFY COLOR-CODING AS REQUIRED IF THE NEW BREAKER ASSIGNMENT IS CONNECTED TO A DIFFERENT LINE/PHASE THAN THE ORIGINAL ONE. USE MEANS AND METHODS COMPLIANT WITH NFPA 70 AND WITH AUTHORITIES HAVING JURISDICTION.
H. ELECTRICAL WORK TO REMAIN OR BE RELOCATED: IF REQUIRED TO ACCOMMODATE CONSTRUCTION RELATED ACTIVITIES OR WHERE SPECIFICALLY SHOWN ON THE DRAWINGS, TEMPORARILY REMOVE, STORE IN PROTECTED LOCATION ON SITE, AND REINSTALL ELECTRICAL EQUIPMENT, LUMINAIRES, OR DEVICES THAT ARE TO REMAIN OR TO BE RELOCATED.
I. PROTECTIVE BARRIERS: PROVIDE AND MAINTAIN TEMPORARY PARTITIONS AND DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT FINISHED AREAS AND OTHER SYSTEM COMPONENTS. PROTECT ADJACENT INSTALLATIONS DURING CUTTING AND PATCHING OPERATIONS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE. PREVENT AIRBORNE DUST AND PARTICULATE MATTER RESULTING FROM ELECTRICAL WORK FROM ENTERING OCCUPIED SPACES, AND FROM ENTERING AIR INTAKES TO OPERATING HVAC SYSTEMS. MEET WITH OWNER AND HVAC INSTALLER TO DETERMINE SPECIAL INDOOR AIR QUALITY (IAQ) REQUIREMENTS RELATED TO ELECTRICAL THAT MAY APPLY TO THIS PROJECT. COOPERATE FULLY WITH HVAC IAQ REQUIREMENTS THAT AFFECT ELECTRICAL WORK AND ARE AFFECTED BY ELECTRICAL WORK.
J. PENETRATIONS: MAKE REQUIRED ELECTRICAL OPENINGS THROUGH WALLS, FLOORS, ETC. IMMEDIATELY PRIOR TO INSTALLATION OF WORK. PROPERLY AND PERMANENTLY SEAL ELECTRICAL OPENINGS IMMEDIATELY AFTER INSTALLATION OF WORK. PROVIDE TEMPORARY SEALS FOR APPLICATIONS WHERE PENETRATIONS ARE MADE BUT CANNOT BE PERMANENTLY SEALED WITHIN FOUR HOURS.
K. PRE-EXISTING CODE VIOLATIONS: INSPECT EXISTING ELECTRICAL WORK IN AREAS ACCESSED UNDER THIS PROJECT AND BRING INTO COMPLIANCE WITH NFPA 70. THIS APPLIES ONLY TO THE EXTENT THAT SUCH WORK IS UNCOVERED IN THE IMMEDIATE PROJECT AREAS AFFECTED BY CONSTRUCTION ACTIVITIES, AND ONLY TO THE EXTENT THAT IT APPLIES TO PRE-EXISTING GENERAL INSTALLATION METHODS SUCH AS MISSING JUNCTION BOX PLATE, OPEN JUNCTION BOX KNOCKOUT, MINOR CONDUIT RE-ANCHORING AND MINOR EXPOSED WIRING/CONNECTIONS. IF MORE EXTENSIVE CODE OR SAFETY VIOLATIONS ARE DISCOVERED, IMMEDIATELY BRING THEM TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND DESIGN PROFESSIONALS FOR DIRECTION OF CORRECTIONS AND IMPACT (IF ANY) ON THE CONSTRUCTION SCHEDULE.
L. TEMPORARY LIGHTING AND POWER: COMPLY WITH NFPA 70 (INCLUDING ARTICLE 590), NFPA 70E AND ALL OTHER PREVAILING CODES. PROVIDE SUFFICIENT LIGHTING AND POWER CENTERS THROUGHOUT INTERIOR OF NEW WORK OR RENOVATION SCOPE. PROVIDE GFCI PROTECTION FOR ALL WORK. COORDINATE WITH GENERAL CONTRACTOR AND OTHER TRADES, AND PROVIDE ANY ADDITIONAL TEMPORARY ELECTRICAL NEEDS THAT ARE REQUIRED. FULLY DEMOLISH TEMPORARY ELECTRIC BY END OF PROJECT. UPON RECEIVING WRITTEN PERMISSION FROM OWNER'S REPRESENTATIVE, TEMPORARY ELECTRICAL SERVICE(S) MAY BE DERIVED FROM EXISTING BUILDING ENERGIZED SERVICE. PROVIDE OVERCURRENT PROTECTION, DISCONNECTS, CABLES, CONDUCTORS, RACEWAY, ETC. ACCORDINGLY. PROVIDE TEMPORARY SERVICE FROM UTILITY IF PERMISSION TO USE EXISTING BUILDING POWER IS NOT GRANTED BY OWNER'S REPRESENTATIVE; ARRANGE WITH LOCAL UTILITY FOR TEMPORARY SERVICE AND PAY ASSOCIATED FEES FOR INSPECTIONS, CONNECTIONS, ETC., AND PAY FOR UTILITY ELECTRIC USAGE/CONSUMPTION COSTS. RESTORE ASSOCIATED SITE AND BUILDING MATERIALS TO THEIR PRE-CONSTRUCTION STATE AND CONDITION AFTER TEMPORARY LIGHTING AND POWER IS NO LONGER NEEDED.
M. INTERIM LIFE-SAFETY PROVISIONS: PROVIDE INTERIM FIRE ALARM AND CODE MINIMUM LIGHTING IN DEMOLITION AND CONSTRUCTION AREAS. PROVIDE TEMPORARY PLASTIC COVERS, OBTAINED FROM SMOKE DETECTOR MANUFACTURER OR OBTAINED FROM A THIRD PARTY AND SPECIFICALLY APPROVED FOR SUCH USE BY SMOKE DETECTOR MANUFACTURER, OVER EXISTING SMOKE DETECTORS WITHIN PROJECT AREA, AND IN ADJACENT AREAS THAT ARE EXPOSED TO CONSTRUCTION-RELATED DUST OR AIRBORNE PARTICULATES. REMOVE ALL TEMPORARY LIFE SAFETY WORK WHEN NO LONGER NEEDED.
N. INTERIM EGRESS PATH PROVISIONS: PROVIDE TEMPORARY UL 924 COMPLIANT EXIT AND/OR EGRESS LIGHTING ALONG EGRESS ROUTES THAT MUST REMAIN ACCESSIBLE DURING CONSTRUCTION. PROVIDE TEMPORARY FIRE ALARM SYSTEM PULL STATIONS AND AUDIO/VISUAL ALARM NOTIFICATION DEVICES ALONG ALL AFFECTED EGRESS ROUTES. REMOVE THIS SCOPE WHEN NO LONGER NEEDED.

EXISTING CONDITIONS - POWER CONTINUITY NOTES

THE FOLLOWING NOTES BROADLY DEFINE SOME OF THE SPECIALTY BASE BID SCOPE OF WORK REQUIRED TO PROVIDE SPECIAL TEMPORARY POWER FOR NEW AND EXISTING FACILITIES TO ACCOMMODATE UTILITY POWER INTERRUPTIONS. FIELD VERIFY ALL SPECIFICS AND PROVIDE MATERIALS, NORMAL TIME LABOR, PREMIUM TIME LABOR, SERVICES, ETC. FOR ALL WORK UNDER BASE BID, INCLUDING BUT NOT LIMITED TO THE FOLLOWING.

A. INVESTIGATION OF EXISTING CONDITIONS: LOCATE, IDENTIFY, AND PROTECT ELECTRICAL SERVICES PASSING THROUGH DEMOLITION AREAS AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, PROVIDE TEMPORARY SERVICES FOR AFFECTED AREAS. IT IS RECOGNIZED THAT THERE MAY BE SOME CONDUIT SYSTEMS RENDERED INACTIVE BY DEMOLITION, CAUSING DISCONNECTION OF "DOWNSTREAM" OUTLETS, ETC. INVESTIGATE THESE TYPES OF CONDITIONS (FOR ALL SYSTEMS) PRIOR TO DEMOLITION. PROVIDE NECESSARY CORRECTIVE ELECTRICAL WORK PRIOR TO DEMOLITION TO ENSURE THAT SUCH "DOWNSTREAM" DEVICES REMAIN PERMANENTLY ACTIVE THROUGHOUT DEMOLITION, DURING NEW CONSTRUCTION, AND AFTER PROJECT COMPLETION. PROTECT EXISTING ELECTRICAL WORK SERVING EXISTING SPACES AND EQUIPMENT THAT MUST REMAIN OPERATIONAL DURING PART OR ALL OF THE CONSTRUCTION PERIOD, AND ENSURE POWER CONTINUITY IS MAINTAINED FOR SAME THROUGHOUT DURATION OF CONSTRUCTION ACTIVITIES.
B. COORDINATION WITH OWNER: CAREFULLY COORDINATE WORK AND SYSTEM SHUTDOWNS IN ADVANCE WITH OWNER'S REPRESENTATIVE, AND WITH AFFECTED TRADES SO THAT NORMAL BUILDING ACTIVITIES AND OTHER CONSTRUCTION TRADES ARE MINIMALLY AFFECTED. DO NOT INTERRUPT ELECTRICAL UTILITY SERVICE(S) TO THE FACILITY, OR ANY PART THEREOF, UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS, AND THEN ONLY AFTER PROVIDING TEMPORARY ELECTRICAL SERVICE(S)/FEEDS: NOTIFY OWNER NO FEWER THAN FOURTEEN DAYS IN ADVANCE OF EACH PROPOSED INTERRUPTION OF AN ELECTRICAL SERVICE; DO NOT PROCEED WITH INTERRUPTION OF AN ELECTRICAL SERVICE WITHOUT OWNER'S WRITTEN PERMISSION; DO NOT ENERGIZE ANY NEW WORK WITHOUT NOTIFICATION TO, AND SUBSEQUENT PERMISSION FROM, THE OWNER AND ALL AFFECTED PARTIES.
C. TEMPORARY ARRANGEMENTS: COMPLY WITH NFPA 70 (INCLUDING ARTICLE 590), NFPA 70E AND ALL OTHER PREVAILING CODES. DURING CONSTRUCTION RELATED ELECTRICAL OUTAGES, PROVIDE ALL TEMPORARY ELECTRICAL WORK REQUIRED TO MAINTAIN POWER TO OCCUPIED AREAS OF THE BUILDING. COORDINATE WITH, AND OBTAIN APPROVAL FROM, OWNER AND DESIGN PROFESSIONALS FOR ALL MEANS AND METHODS. COMPLY WITH NFPA 70E. SCHEDULE ALL OUTAGES IN ADVANCE WITH OWNER, AT DAYS OF WEEK AND TIMES OF DAY OR NIGHT AS DIRECTED BY OWNER.

EXISTING CONDITIONS - DEMOLITION NOTES

A. DEFINITION OF DEMOLITION: WHERE THE TERM "DEMOLITION" IS USED IN ELECTRICAL DOCUMENTS, INTERPRET IT TO MEAN "DEMOLITION" OR "SELECTIVE DEMOLITION" AS APPLICABLE FOR THE RESPECTIVE SCOPE OF WORK. WHERE THE TERM "DEMOLISH", "REMOVE" OR SIMILAR TERMS ARE USED IN ELECTRICAL DOCUMENTS, INTERPRET TO MEAN "DISCONNECT, REMOVE, DISPOSE OF, AND REMOVE ALL RELATED ELECTRICAL CONDUIT, RACEWAYS, WIRING, CABLES, BOXES, SUPPORTS, ETC.".
B. GENERAL ACCOMMODATIONS: PROVIDE ELECTRICAL DEMOLITION WORK AS REQUIRED TO ACCOMMODATE PROJECT DEMOLITION AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. DISCONNECT AND REMOVE WORK TO BE ABANDONED, AND AS REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES, IN AREAS AFFECTED BY THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE PHASING OF WORK CAREFULLY WITH OWNER PRIOR TO BEGINNING ELECTRICAL DEMOLITION WORK.
C. REMOVAL OF ABANDONED WORK: REMOVE ACCESSIBLE ABANDONED, INACTIVE AND OBSOLETE RACEWAY SYSTEMS, EQUIPMENT, LUMINAIRES, DEVICES, CONDUIT, WIRING, CABLES, BOXES, SUPPORTS, CONTROLS, ETC. ABANDONED RACEWAYS EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. THIS APPLIES FOR ALL ELECTRICAL WORK, AND ALL COMMUNICATIONS AND INFORMATION TECHNOLOGY TYPE WORK, INCLUDING ALL SUCH WORK ABOVE CEILINGS, ETC. REMOVE RELATED ABANDONED UNUSED RACEWAY BACK TO THE NEAREST RESPECTIVE "UPSTREAM" JUNCTION BOX THAT REMAINS ACTIVE EVEN IF OUTSIDE OF THE CONFINES OF THE PROJECT AREA. REMOVE ABANDONED UNUSED WIRING AND CABLES BACK TO RESPECTIVE SOURCES SOURCE EVEN IF SOURCES ARE OUTSIDE THE CONFINES OF THE PROJECT AREA.
D. RE-USE OF EXISTING CONDUIT: EXISTING BRANCH CIRCUIT AND SYSTEMS CONDUIT, NOT CONFLICTING WITH NEW CONSTRUCTION AND NOT CONFLICTING WITH OVERHEAD OR CEILING CAVITY REQUIREMENTS, MAY BE RE-USED AT THE DISCRETION OF THE ELECTRICAL INSTALLER IF IT COMPLIES WITH THESE CONTRACT DOCUMENTS AFTER ALL ABANDONED CONDUCTORS AND CABLES HAVE BEEN REMOVED FROM THEM. DO NOT EXCEED NFPA 70 REQUIRED CONDUIT FILL AND DO NOT INSTALL WIRING FED FROM DIFFERENT SOURCES IN COMMON CONDUIT.
E. MODIFICATIONS TO ACCOMMODATE NEW WORK: REMOVE AND RELOCATE EQUIPMENT, LUMINAIRES, DEVICES, CONDUIT, RACEWAYS, WIRING, CABLES, BOXES, SUPPORTS, ETC. THAT CONFLICT WITH CONSTRUCTION RELATED WORK OF ALL TRADES AS NECESSARY TO ACCOMMODATE NEW WORK OF RESPECTIVE TRADES. REWORK AND EXTEND RACEWAY AND WIRING AS REQUIRED TO ACCOMMODATE NEW OR RELOCATED ELECTRICAL WORK. MAINTAIN (OR RECONNECT IF APPLICABLE) REMAINING WIRING. PROVIDE ELECTRICAL DISCONNECTIONS, AND RECONNECTIONS WHERE APPLICABLE, FOR EQUIPMENT TO BE REMOVED (OR RELOCATED) BY OTHER TRADES.
F. CUTTING AND PATCHING: PERFORM CUTTING AND PATCHING REQUIRED FOR DEMOLITION, RESTORED TO MATCH SURROUNDING REMAINING SURFACES, INCLUDING FIRE/SMOKE RATINGS.
G. LUMINAIRES: FOR ALL EXISTING LUMINAIRES WHICH ARE SCHEDULED FOR REUSE, REMOVE FROM EXISTING CEILINGS DURING DEMOLITION; PROTECT DURING CONSTRUCTION; CLEAN, SERVICE (IF REQUIRED), RE-LAMP (WITH LAMPS TO MATCH BUILDING STANDARD) AND REINSTALL AT LOCATIONS INDICATED. FOR ALL EXISTING LUMINAIRES WHICH ARE SCHEDULED TO BE REMOVED AND TURNED OVER TO OWNER, THE LUMINAIRES SHALL BE DISCONNECTED, CAREFULLY REMOVED AND TURNED OVER TO OWNER. TRANSFER SUCH LUMINAIRES TO STORAGE AREA AS DIRECTED IN FIELD.
H. DISPOSAL OF MATERIALS: REFER TO OWNER'S REPRESENTATIVE FOR DISPOSAL INSTRUCTIONS FOR ABANDONED ELECTRICAL MATERIALS REMOVED DURING DEMOLITION AND THEREAFTER. NEATLY STORE ELECTRICAL MATERIALS THAT THE OWNER ELECTS TO RETAIN AT THE SITE AS DESIGNATED BY THE OWNER'S REPRESENTATIVE. LEGALLY DISPOSE OF MATERIALS THAT THE OWNER ELECTS NOT TO RETAIN. DISCONNECT AND REMOVE ELECTRICAL MATERIALS DESIGNATED FOR SALVAGE (REMOVAL AND REUSE, OR FOR TURNING OVER TO OWNER) UNDAMAGED. DISCONNECT AND REMOVE WIRING AND "WHIPS" FROM EQUIPMENT TERMINAL POINTS. CAREFULLY TRANSPORT SALVAGED ELECTRICAL MATERIALS TO A PROTECTED ON-SITE STORAGE LOCATION AS DIRECTED IN FIELD AND NEATLY STORE THEM GROUPED BY SYSTEM TYPE.
I. CLEANING OF REUSED COMPONENTS: CLEAN COMPONENTS TO BE REUSED INSIDE AND OUT, AND REINSTALL WHERE INDICATED ON DRAWINGS. MODIFY AND EXTEND RELATED EXISTING WIRING IN CONDUIT ACCORDINGLY.

ELECTRIC DRAWING INDEX

SHEET NUMBER	SHEET NAME
E001	ELECTRIC COVER SHEET
E1101	ELECTRIC DEMO PLAN
E3101	ELECTRIC LIGHTING PLAN
E3601	ELECTRIC LIGHTING - SCHEDULES
E3602	ELECTRIC LIGHTING - ENERGY COMPLIANCE
E4101	ELECTRIC POWER PLAN
E4102	ELECTRIC RACEWAY PLAN
E4501	ELECTRIC - DETAILS
E4601	ELECTRIC POWER - SINGLE LINE DIAGRAM & SCHEDULES

REVISIONS:

Number	Description	Date

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COMMISSIONER'S HEARING ROOM RENOVATION
201 W Main ST, Troy, OH 45373

MIAMI COUNTY COMMISSIONERS OHIO

PROJECT NO: 27619
CHECKED BY: BMJ
DRAWN BY: LDF
DATE: 10/3/25

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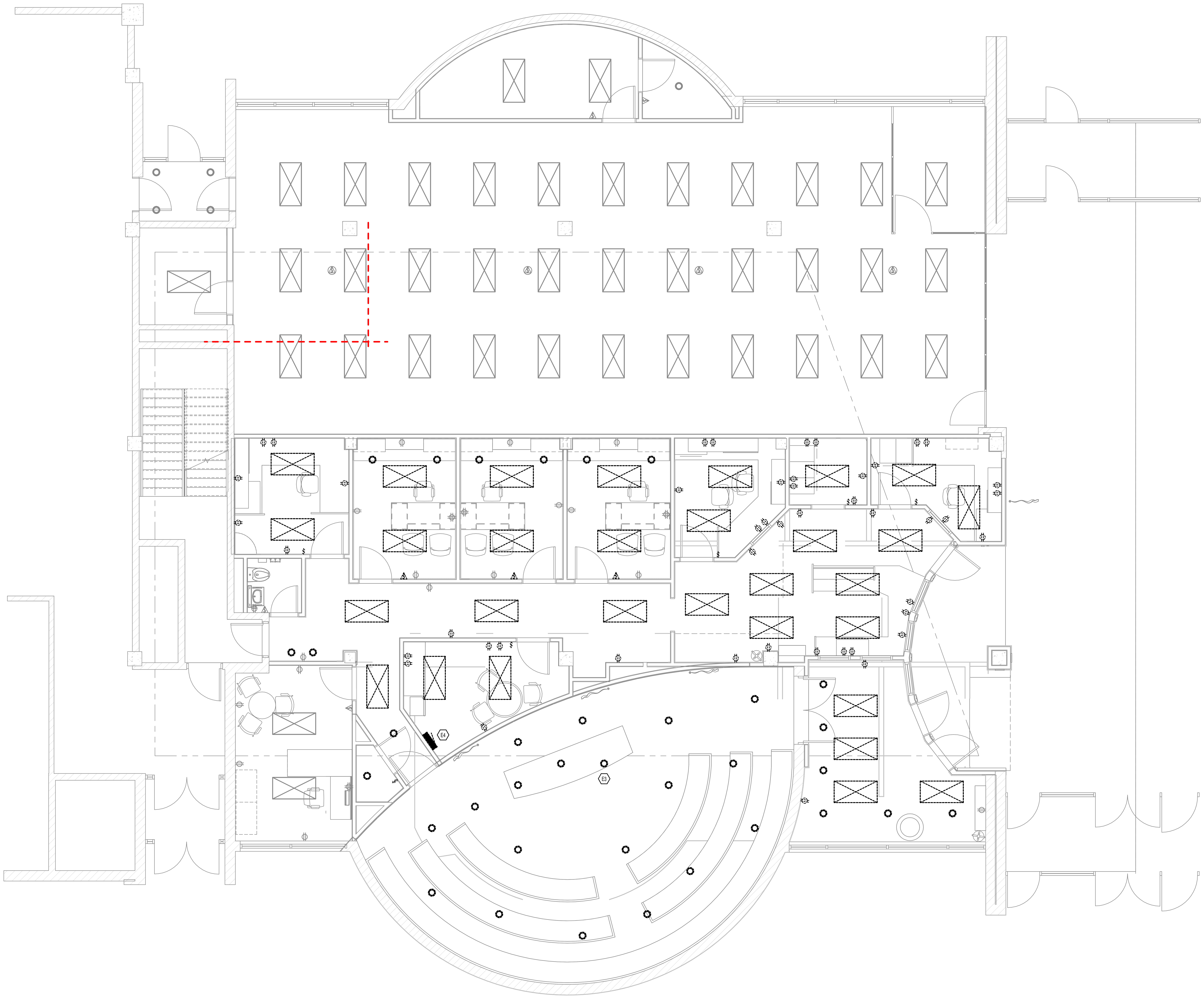
ELECTRIC COVER SHEET

E001

KEYED NOTES

E3	ALL EXISTING LIGHT FIXTURES AND ASSOCIATED CONTROLS TO BE DEMOLISHED IN THIS SPACE.
E4	INTERCEPT ALL EXISTING CIRCUITS TO REMAIN FROM PANELBOARD '1D' IN ABOVE-CEILING SPLICE BOX FOR EXTENSION TO NEW PANELBOARD LOCATION AS SHOWN ON SHEET E4101. MAINTAIN EXISTING FEEDER FROM 'SWBD1' TO RE-FEED NEW PANEL LOCATION. VERIFY IN FIELD WHETHER EXISTING FEEDER CAN BE EXTENDED CONTINUOUSLY TO NEW PANEL LOCATION WITHOUT SPLICE. IF CONTINUOUS PULL IS NOT FEASIBLE, PROVIDE A SEPARATE, ACCESSIBLE SPLICE BOX FOR FEEDER SPLICE. COORDINATE FINAL ROUTING AND SPLICE REQUIREMENTS WITH ARCHITECT AND OWNER.



1 ELECTRIC DEMO PLAN
1/4" = 1'-0"

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ELECTRIC DEMO PLAN

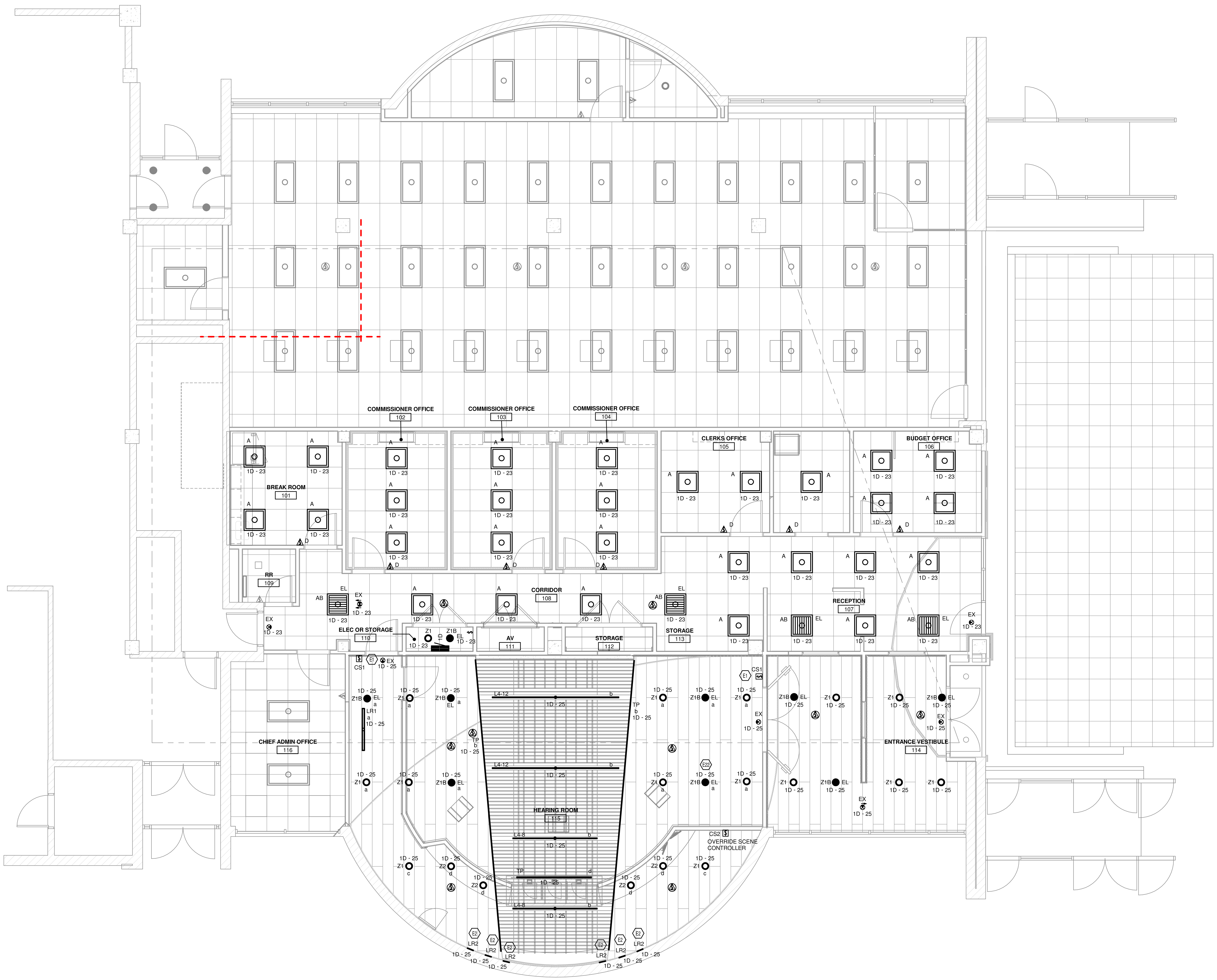
E1101

GENERAL LIGHTING PLAN NOTES

A. EXIT SIGN CONNECTIONS: CONNECT ALL EXIT SIGNAGE AHEAD OF ANY SWITCHING.
B. INDOOR EGRESS LIGHTING: CONNECT ALL INDOOR EGRESS LIGHTING, DESIGNATED "EL", AHEAD OF ANY SWITCHING. UNLESS CONTROL METHODS ARE INDICATED OTHERWISE FOR A GIVEN AREA.
C. BATTERY BACKUP DEVICES: WHERE INDICATED IN DOCUMENTS, PROVIDE UL 924 LISTED BATTERY DEVICES, WHICH AUTOMATICALLY REVERT TO FULL ILLUMINATION FOR THE AFFECTED LUMINAIRES IN THE EVENT OF LOSS OF POWER FROM THE NORMAL POWER SUPPLY CIRCUIT. PROVIDE UNSWITCHED "HOT" TO SUCH COMPONENTS TO PROVIDE CONTINUOUS POWER EVEN IF LUMINAIRE IS TURNED OFF USING NORMAL LIGHTING CONTROLS.
D. TRANSFER/RELAY-CONTROL DEVICES: WHERE INDICATED IN DOCUMENTS, PROVIDE TRANSFER/RELAY-CONTROL DEVICES, WHICH AUTOMATICALLY REVERT TO FULL ILLUMINATION FOR THE AFFECTED LUMINAIRES IN THE EVENT OF LOSS OF POWER FROM THE NORMAL POWER SUPPLY CIRCUIT. PROVIDE UNSWITCHED "HOT" TO SUCH COMPONENTS, TO PROVIDE CONTINUOUS POWER EVEN IF LUMINAIRE IS TURNED OFF USING NORMAL LIGHTING CONTROLS.

KEYED NOTES

E1	ROOM ON/OFF CONTROL; OVERRIDE SWITCH LOCATED PLAN SOUTH
E2	LIGHTING INTEGRAL TO ARCHITECTURAL FEATURE WALL CONTINUES DOWN VERTICAL FACE. COORDINATE WITH ARCHITECTURAL PLANS FOR ADDITIONAL LOCATION INFO.
E22	PROVIDE A LOAD CONTROL RELAY FOR ALL CONTROLLED EGRESS LIGHTING FIXTURES. SHOW ONE TYPICAL RELAY LOCATION ON DRAWINGS AND WIRE AHEAD OF ALL Z1B CIRCUITS TAGGED WITH "EL". COORDINATE FINAL DEVICE LOCATION AND WIRING ROUTING IN FIELD. ENSURE RELAY IS COMPATIBLE WITH LIGHTING CONTROL SYSTEM



1 ELECTRIC LIGHTING PLAN - OVERALL
1/4" = 1'-0"

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Levin Porter Associates Inc. dba Levin Porter Architects

ELECTRIC LIGHTING PLAN

E3101

ELECTRIC LUMINAIRE SCHEDULE

GENERAL NOTES:
A. REFER TO DRAWINGS FOR MOUNTING TYPE, NUMBER OF FACES AND ARROWS OF EXIT SIGNS. VERIFY IN FIELD PRIOR TO INSTALLATION.
B. VERIFY COMPATIBILITY WITH VOLTAGE, CONTROLS, ETC. FOR ALL LUMINAIRE COMPONENTS
C. COORDINATE EACH LUMINAIRE LOCATION WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, CEILING INSTALLERS, ETC. AND PROVIDE APPROPRIATE MOUNTING SYSTEM REQUIRED FOR EACH LUMINAIRE. ALSO, PROVIDE PLASTER FRAMES, WALL BRACKETS, SUPPORTS, OR OTHER APPURTENANCES AS REQUIRED FOR PROPER AND COMPLETE INSTALLATIONS.
D. WEAR CLEAN WHITE COTTON GLOVES WHEN HANDLING EXPOSED REFLECTIVE LUMINAIRE SURFACES. REMOVE PLASTIC SHIPPING BAGS ONLY AFTER INTERIOR WORK IS COMPLETE, AND CLEAN ALL SURFACES WITH CLEAN DRY CHEESECLOTH.
E. MOUNTING HEIGHTS INDICATED ARE TO THE BOTTOM OF THE LUMINAIRE, UNLESS OTHERWISE NOTED.
F. PRODUCTS: PROVIDE PRODUCTS INDICATED ON DRAWINGS AND SCHEDULES. WHERE MULTIPLE MANUFACTURER SERIES/MODEL NUMBERS ARE LISTED FOR A SINGLE LUMINAIRE, PROVIDE ONE OF THOSE LISTED. WHERE A SPECIFIC MANUFACTURER SERIES/MODEL NUMBER IS LISTED AS BASIS-OF-DESIGN, AND WHERE IT IS STATED THAT EQUIVALENTS WILL BE CONSIDERED, ANY PROPOSED NON-LISTED LUMINAIRES ARE SUBJECT TO REVIEW BY DESIGN PROFESSIONAL(S), SUBMITTALS FOR WHICH SHALL BE FURNISHED AT LEAST (10) DAYS PRIOR TO BID DUE DATE OR THEY WILL NOT BE CONSIDERED. THESE PRE-BID SUBMITTALS SHALL CLEARLY STATE EXACTLY WHAT IS BEING PROPOSED AND SHALL DEMONSTRATE COMPLIANT EQUIVALENCY. SIMILAR REQUESTS FOR PROPOSED SUBSTITUTIONS MAY BE MADE ONLY AFTER BIDS ARE RECEIVED, AND ONLY IF OWNER CHOOSES TO CONSIDER SUBSTITUTION REQUESTS. DESIGN PROFESSIONAL(S) AND OWNER RESERVE THE RIGHT TO REJECT ALL PRODUCTS THAT ARE NOT DEEMED TO BE FULLY EQUIVALENT TO THE BASIS-OF-DESIGN LISTING(S). SUBMIT ALL REQUESTS AND QUESTIONS THROUGH THE FORMALLY-ESTABLISHED BIDDING PROCESS, NOT DIRECTLY TO ENGINEER.

TYPE	DESCRIPTION	MANUFACTURER	MODEL	ACCEPTED EQUALS	SIZE	MOUNTING	FLANGE KIT	MATERIAL	OPTICS	LIGHT SOURCE	LAMP QTY	LAMP BASE	COLOR TEMPERATURE (K)	CRI	LUMEN OUTPUT (L)	DRIVER	DRIVER QTY	BATTERY	BATTERY TYPE	DIMMING PROTOCOL	FINISH	OPTIONS	LOAD (VA)	UNIVERSAL VOLTAGE (MVOLT)	VOLTAGE	PHASE	COMMENTS
A	FLAT PANEL	LITHONIA	CPX SERIES	COLUMBIA LIGHTING-CFP24, METALUX-24FP	24" X 24" X 2"	RECESSED GRID	No	ALUMINUM	SATIN WHITE FLAT LUMINOUS ACRYLIC LENS	LED	1		3500	80	4000	ELECTRONIC	1	No	NONE	0-10V	WHITE		38 VA	Yes	120 V	1	
AB	FLAT PANEL	LITHONIA	CPX SERIES	COLUMBIA LIGHTING-CFP24, METALUX-24FP	24" X 24" X 2"	RECESSED GRID	No	ALUMINUM	SATIN WHITE FLAT LUMINOUS ACRYLIC LENS	LED	1		3500	80	4000	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTES-SELF-DIAGNOSTIC	0-10V	WHITE		38 VA	Yes	120 V	1	
EX	EXIT SIGN									LED	1		3500	82	0	ELECTRONIC	1	No	NONE	0-10V	WHITE		0 VA	Yes	120 V	1	
L4-8	LINEAR - RECESSED	ARMSTRONG	LINEAR ON CENTER	NO	96" X 1" X 5"	RECESSED GRID	No	EXTRUDED ALUMINUM	CLEAR ANODIZED FINISH	LED	1		3500	80	1916	ELECTRONIC	1	No	NONE	0-10V	WHITE		24 VA	Yes	120 V	1	
L4-12	LINEAR - RECESSED	ARMSTRONG	LINEAR ON CENTER	NO	144" X 1" X 5"	RECESSED GRID	No	EXTRUDED ALUMINUM	CLEAR ANODIZED FINISH	LED	1		3500	80	1916	ELECTRONIC	1	No	NONE	0-10V	WHITE		36 VA	Yes	120 V	1	
LR1	LINEAR - RECESSED WALL WASH	ALW LIGHTING	LIGHTPLANE 1R	FINELITE HP4, LITECONTROL-4L-R-D	4' X 2.75"	RECESSED TRIM	No		EXTRA DIFFUSE ACRYLIC	LED	1		3500	82	1200	ELECTRONIC	1	No	NONE	0-10V	WHITE		56 VA	Yes	120 V	1	
LR2	INTEGRAL ACCENT LIGHT	FRY REGLET	IULED	FINELITE HP4, LITECONTROL-4L-R-D	REFER TO PLAN	RECESSED IN CHANNEL	No	ALUMINUM	--	LED	1	N/A	3000	95	94	ELECTRONIC	1	No	NONE	ELV	WHITE		1 VA	Yes	120 V	1	INTEGRAL TO ARCHITECTURAL WALL FEATURE; 2 VA PER FOOT; 150 LUMENS PER FOOT
TP	TAPE LIGHT	AMERICAN LIGHTING	STL-WW	LUTRON LUMARIS, DIODE BLAZE	REFER TO PLAN	RECESSED IN CHANNEL	No	SILICONE	120DEG OPTIC	LED	1	N/A	3000	95	<varies>	ELECTRONIC	1	No	NONE	ELV	WHITE		<varies>	Yes	120 V	1	REMOTE 24V TRANSFORMER; 2 VA PER FOOT; 150 LUMENS PER FOOT
Z1	ROUND DOWNLIGHT	LITHONIA	LDN6	HALO-HC6, PRESCOLITE-LBRP-6 RD	6"DIA X 7"	RECESSED	No	STEEL	MEDIUM BEAM	LED	1		3500	82	1000	ELECTRONIC	1	No	NONE	0-10V	SEMI-SPECULAR, CLEAR		11 VA	Yes	120 V	1	INTEGRAL FLANGE, MATCH FINISH
Z1B	ROUND DOWNLIGHT	LITHONIA	LDN6	HALO-HC6, PRESCOLITE-LBRP-6 RD	6"DIA X 7"	RECESSED	No	STEEL	MEDIUM BEAM	LED	1		3500	82	1000	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTES-SELF-DIAGNOSTIC	0-10V	SEMI-SPECULAR, CLEAR		11 VA	Yes	120 V	1	INTEGRAL FLANGE, MATCH FINISH
Z2	ROUND DOWNLIGHT - NARROW BEAM	LITHONIA	LDN6	HALO-HC6, PRESCOLITE-LBRP-6 RD	6"DIA X 7"	RECESSED	No	STEEL	NARROW BEAM	LED	1		3500	82	1000	ELECTRONIC	1	No	NONE	0-10V	SEMI-SPECULAR, CLEAR		11 VA	Yes	120 V	1	INTEGRAL FLANGE, MATCH FINISH

REVISIONS :

Number	Description	Date
1	BID AND PERMIT	10/7/25

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MIAMI COUNTY

COMMISSIONER'S HEARING ROOM RENOVATION

201 W Main ST, Troy, OH 45373

PROJECT NO: **27619**
CHECKED BY: **BMJ**
DRAWN BY: **LDF**
DATE: **10/3/25**

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ELECTRIC LIGHTING - SCHEDULES

E3601

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COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	201 W Main St, Troy, OH 45373
Project Type:	Alteration

Construction Site:

Owner/Agent:

Designer/Contractor:
KLH Engineers
1538 Alexandria Pike
Fort Thomas, KY 41075

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-ELEC OR STORAGE (Common Space Types:Electrical/Mechanical)	14	0.43	6
2-HEARING ROOM (Common Space Types:Atrium) (Ceiling Height 10 ft.)	1008	0.48	484
3-ENTRANCE VESTIBULE (Common Space Types:Corridor/Transition <8 ft wide)	293	0.41	120
4-BREAK ROOM (Common Space Types:Lounge/Breakroom)	113	0.59	67
5-CORRIDOR (Common Space Types:Corridor/Transition <8 ft wide)	288	0.41	118
6-RECEPTION (Common Space Types:Lobby - General)	220	0.84	185
7-BUDGET OFFICE (Common Space Types:Office - Enclosed)	142	0.74	105
8-CLERKS OFFICE (Common Space Types:Office - Enclosed)	97	0.74	72
		Total Allowed Watts =	1156

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
ELEC OR STORAGE (Common Space Types: Electrical/Mechanical, 14 sq.ft.)				
Z1: Z1: ROUND DOWNLIGHT: Other:	1	1	11	11
Z1B: Z1B: ROUND DOWNLIGHT: Other:	1	1	11	11
HEARING ROOM (Common Space Types: Atrium, 1008 sq.ft.)				
Z1: Z1: ROUND DOWNLIGHT: Other:	1	9	11	99
Z1B: Z1B: ROUND DOWNLIGHT: Other:	1	5	11	55
TP: TP: TAPE LIGHT: Other:	1	3	42	126
Z2: Z2: ROUND DOWNLIGHT NARROW BEAM: Other:	1	4	11	44
LR1: LR1: LINEAR RECESSED WALL WASH: Other:	1	1	56	56
LR2: LR2: INTEGRAL ACCENT LIGHT: Other:	1	6	1	6
L4-8: L4-8: LINEAR RECESSED: Other:	1	2	24	48
L4-12: L4-12: LINEAR RECESSED: Other:	1	2	36	72
ENTRANCE VESTIBULE (Common Space Types: Corridor/Transition <8 ft wide, 293 sq.ft.)				
Z1: Z1: ROUND DOWNLIGHT: Other:	1	5	11	55
Z1B: Z1B: ROUND DOWNLIGHT: Other:	1	3	11	33

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
BREAK ROOM (Common Space Types: Lounge/Breakroom, 113 sq.ft.)				
A: A: FLAT PANEL: Other:	1	2	38	76
CORRIDOR (Common Space Types: Corridor/Transition <8 ft wide, 288 sq.ft.)				
A: A: FLAT PANEL: Other:	1	2	38	76
AB: AB: FLAT PANEL: Other:	1	2	38	76
RECEPTION (Common Space Types: Lobby - General, 220 sq.ft.)				
AB: AB: FLAT PANEL: Other:	1	2	38	76
BUDGET OFFICE (Common Space Types: Office - Enclosed, 142 sq.ft.)				
A: A: FLAT PANEL: Other:	1	2	38	76
CLERKS OFFICE (Common Space Types: Office - Enclosed, 97 sq.ft.)				
A: A: FLAT PANEL: Other:	1	1	38	38
			Total Proposed Watts =	1034

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

REVISIONS :

Number	Description	Date

PRINTINGS :

BID & PERMIT REVIEW DOCUMENTS	10/3/25

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HOME. GROWN. GREAT. MIAMI COUNTY COMMISSIONERS OHIO

PROJECT NO: 27619
CHECKED BY: BMJ
DRAWN BY: LDF
DATE: 10/3/25

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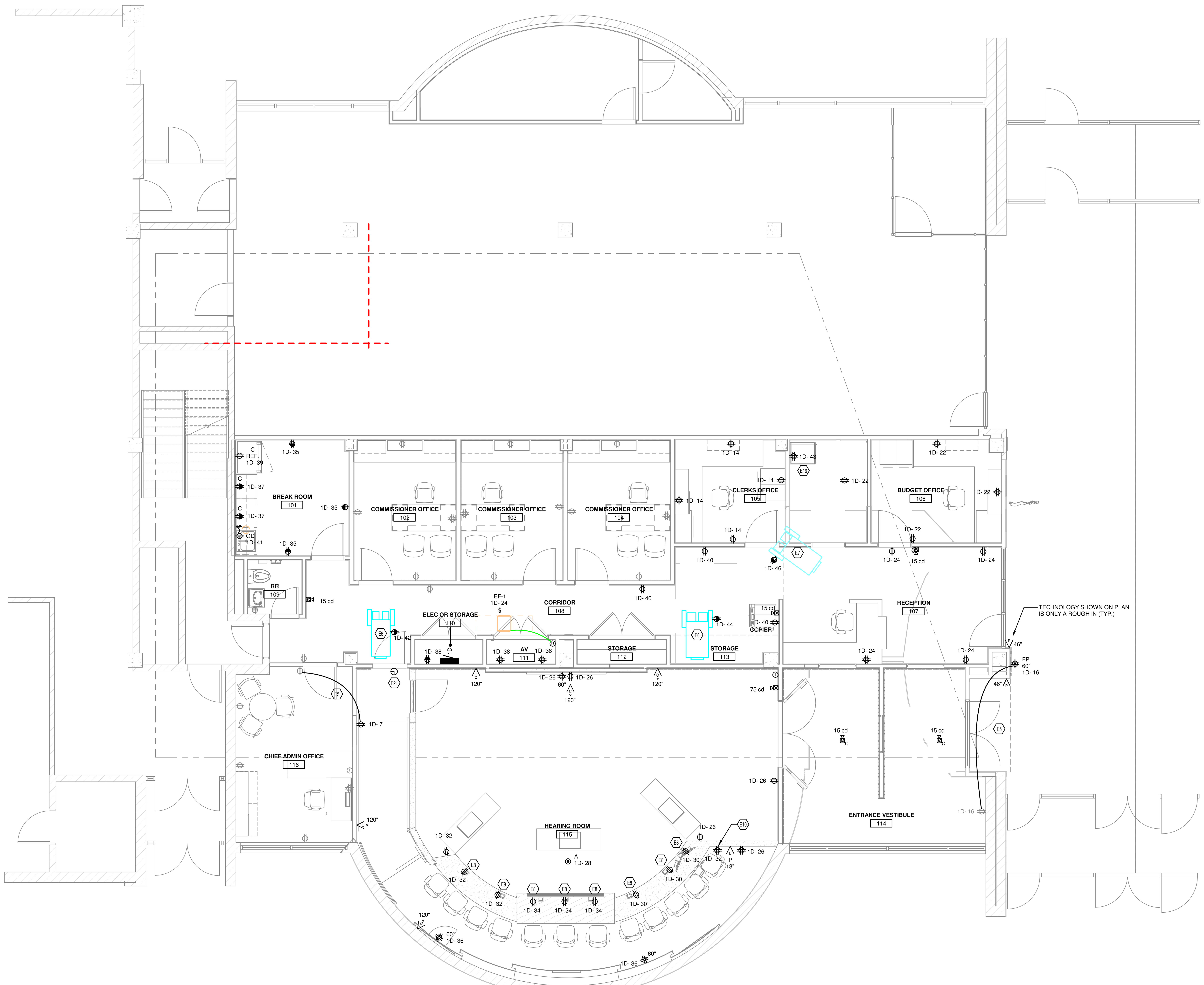
ELECTRIC LIGHTING - ENERGY COMPLIANCE

E3602

10/9/2025 10:07:15 AM

KEYED NOTES

E5	EXTEND EXISTING BRANCH CIRCUIT TO NEW DEVICE AS INDICATED.
E6	EXTEND EXISTING CONNECTION TO MECHANICAL UNIT TO NEW LOCATION.
E7	MAINTAIN EXISTING CONNECTION TO MECHANICAL UNIT.
E8	PROVIDE POP-UP, IN TABLE POWER/DATA ASSEMBLY, BASIS OF DESIGN: MOD DOCK-701. COORDINATE WITH ARCHITECT/OWNER FOR REQUIRED FINISHES.
E10	COORDINATE FINAL LOCATION OF RECEPTACLE FOR BRACKET MOUNTED PC WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLTION.
E16	EXISTING IT RACK, PROTECT AND MAINTAIN ALL EXISTING CABLING INTO AND OUT OF RACK FOR RE-USE BY OWNER'S INTEGRATORS.
E21	APPROXIMATE LOCATION OF SPEAKER COUNTDOWN CLOCK, CONTROLLER TO BE LOCATED AT DAIS. COORDINATE WITH OWNER'S REPRESENTATIVE FOR FINAL REQUIREMENTS BEFORE INSTALLATION OF BOX AND PATHWAY.



1 ELECTRIC POWER PLAN - OVERALL
1/4" = 1'-0"

N

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REVISIONS :

Number	Description	Date
1	BID AND PERMIT	10/7/25

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BID & PERMIT REVIEW DOCUMENTS	10/3/25

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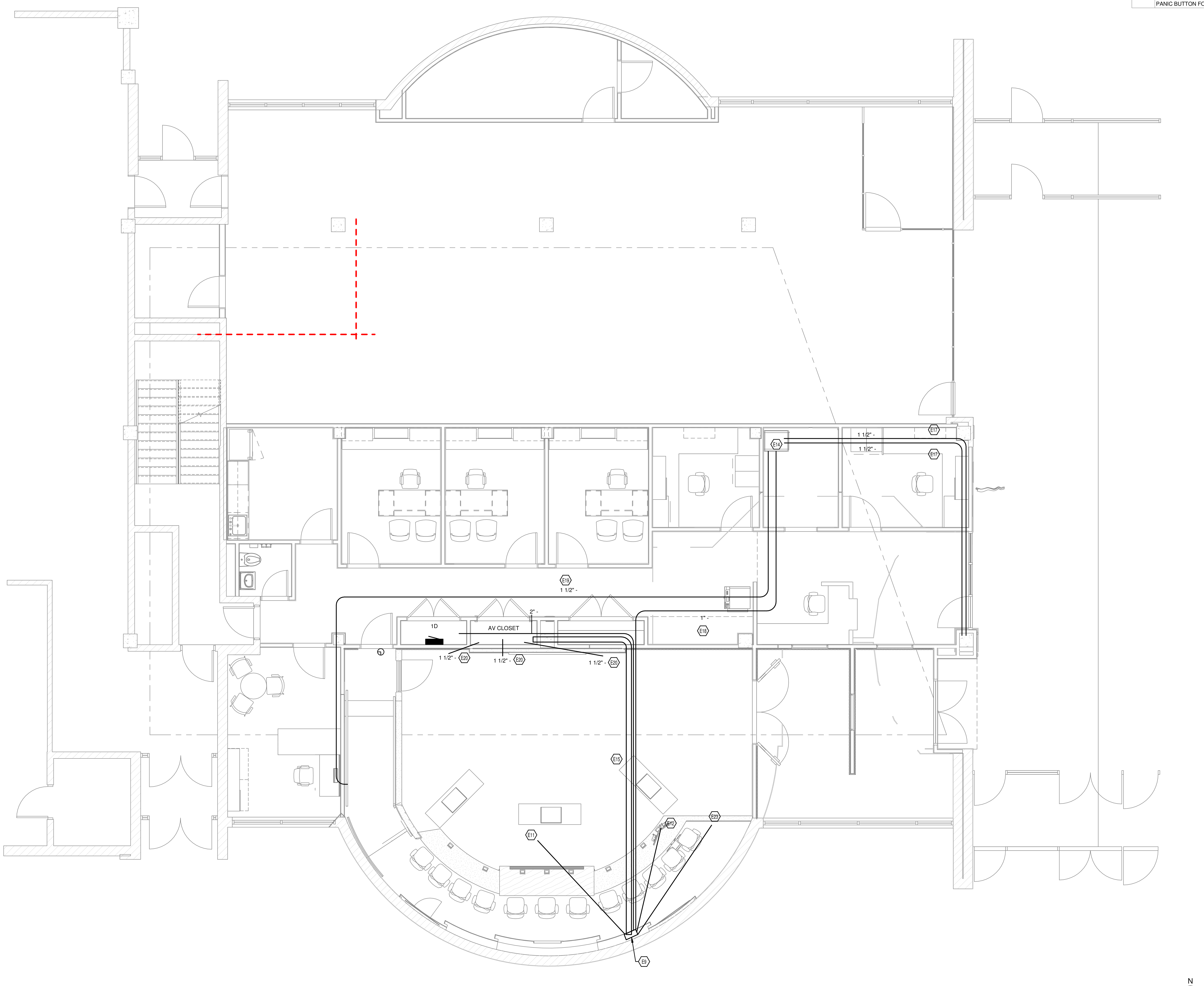
ELECTRIC POWER PLAN

E4101



1 ELECTRIC RACEWAY PLAN - OVERALL
1/4" = 1'-0"

KEYED NOTES

E9	PROVIDE ACCESSIBLE BOX IN WALL BUILD OUT, BELOW LEVEL OF DESK TO USE AS PULL POINT FOR POWER AND DATA CABLING TO ABOVE CEILING. COORDINATE WITH ARCHITECT FOR FINAL LOCATION PRIOR TO COMMENCING WORK.
E11	CONDUIT ROUTED UNDER FLOOR FROM ACCESSIBLE BOX IN WALL BUILD OUT FOR PODIUM FLOOR BOX. SAWCUT EXISTING FLOOR.
E12	CONDUIT ROUTED UNDER FLOOR FROM ACCESSIBLE BOX IN WALL TO DAIS INTERNAL RACEWAYS FOR POWER AND DATA.
E14	APPROXIMATE LOCATION OF EXISTING IT RACK.
E15	6" CABLE TRAY ABOVE ACCESSIBLE PORTION OF CEILING FOR ROUTING OF CABLES FROM 'JAVS' CLOSET TO DAIS THROUGH BUILT OUT ARCHITECTURAL WALL.
E17	1-1/2" CONDUIT FOR CABLING TO CARD READER LOCATIONS.
E18	1" CONDUIT FOR DATA CABLING TO DAIS PC.
E19	1-1/2" CONDUIT FOR CABLING TO CAMERA LOCATION.
E20	1-1/2" CONDUIT FOR CABLING TO JAVS SYSTEM CAMERA.
E23	CONDUIT ROUTED UNDER FLOOR FROM ACCESSIBLE BOX IN WALL TO PANIC BUTTON FOR POWER AND DATA.

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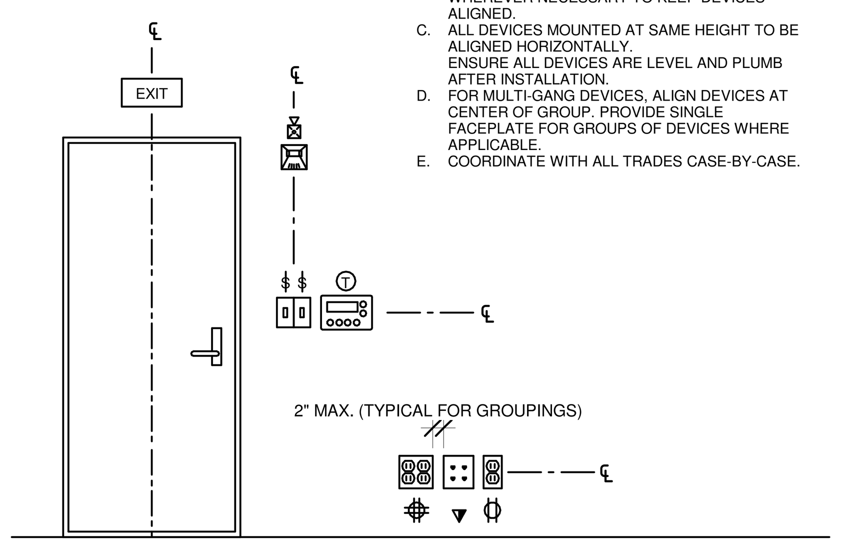
ELECTRIC RACEWAY PLAN

E4102

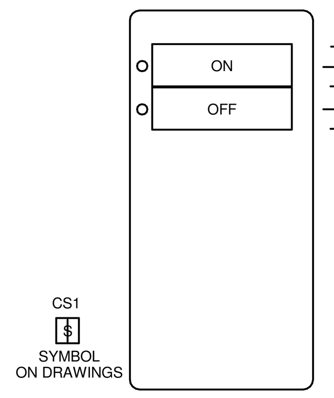


GENERAL NOTES:

A. ALIGN ALL DEVICES SHOWN ON PLANS AT SAME DIMENSION FROM DOOR FRAME OR WALL.
B. CONDUIT/CABLES SHALL BE ROUTED WHEREVER NECESSARY TO KEEP DEVICES ALIGNED.
C. ALL DEVICES MOUNTED AT SAME HEIGHT TO BE ALIGNED HORIZONTALLY. ENSURE ALL DEVICES ARE LEVEL AND PLUMB AFTER INSTALLATION.
D. FOR MULTI-GANG DEVICES, ALIGN DEVICES AT CENTER OF GROUP. PROVIDE SINGLE FACEPLATE FOR GROUPS OF DEVICES WHERE APPLICABLE.
E. COORDINATE WITH ALL TRADES CASE-BY-CASE.

260502.00-01 - oDEVICE ALIGNMENT DETAIL

SCALE: NONE

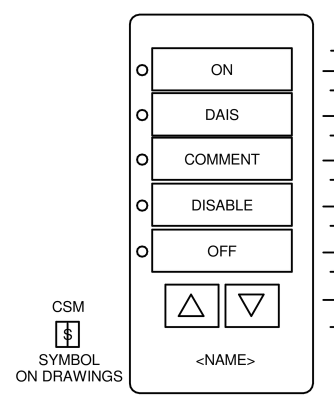


ZONES CONTROLLED	SETTING
ALL IN SPACE	100%
ALL IN SPACE	0%

MASTER SEQUENCE OF OPERATIONS:

CONFIRM DAILY HOURS OF OPERATION WITH THE OWNER. PROGRAM THE LIGHTING CONTROL SYSTEM MASTER SCHEDULE PER THIS SEQUENCE, UNLESS OTHERWISE MODIFIED BY THE OWNER:

1. VACANCY SENSING WITH 20 MINUTE TIMEOUT AND MANUAL OVERRIDE FROM ENTRY CONTROL STATIONS.
2. MASTER CONTROL STATION TO PROVIDE SCENE CONTROL AS INDICATED.
3. MASTER CONTROL STATION TO DISABLE ENTRY CONTROL STATIONS.



ZONES CONTROLLED	SETTING
ALL IN SPACE	100%
a/b, c/d	25%, 100%
a, b/c/d	25%, 100%
ENTRY STATIONS	OFF
ALL IN SPACE	0%
MANUAL RAISE/LOWER OF CURRENTLY ACTIVE SETTINGS	

CONTROL STATION GENERAL NOTES:

A. PROVIDE CUSTOM ENGRAVING OF ALL CONTROL STATIONS AS SHOWN IN THIS DETAIL.
B. PROVIDE INDICATOR LIGHTS ON EACH BUTTON THAT SHOWS THE ON/OFF STATUS OF WHAT IT CONTROLS.

LIGHTING CONTROL NARRATIVE:

A. ALL EGRESS LIGHTS SHOWN AS CONTROLLED ON THE DRAWINGS SHALL TURN ON TO FULL BRIGHTNESS WHEN THE GENERAL LIGHTING IN THE SPACE IS TURNED OFF OR UPON LOSS OF NORMAL POWER. PROVIDE UL924 LOAD CONTROL RELAYS AS REQUIRED TO RENDER THIS SEQUENCE FULLY FUNCTIONAL.

265100.00-10 - DIGITAL LIGHTING CONTROL DETAILS

SCALE: NONE

REVISIONS :

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ELECTRIC - DETAILS

E4501

10/9/2025 10:07:47 AM

ELECTRIC FEEDER SCHEDULE

NOTES:
ALL CONDUIT SIZES INDICATED ARE MINIMUM SIZES. INCREASE SIZES AS REQUIRED TO ACCOMMODATE CONDUCTOR PULLING EASE, FIELD CONDITIONS, ETC.

"CU" = COPPER CONDUCTOR,
"AL" = ALUMINUM CONDUCTOR

** WHERE THESE FIELDS ARE BLANK, PROVIDE INSULATION & CONDUIT MATERIAL PER THE CONDUIT & WIRE MATERIAL SCHEDULE.

FEEDER ID NOMENCLATURE:
* - INDICATES FEEDER SIZED TO COMPENSATE FOR VOLTAGE DROP
1 - GROUND TYPE (MAY BE BLANK)
U = EQUIPMENT GROUND CONDUCTOR REMOVED FOR SERVICE ENTRANCE FROM UTILITY
P = PARITY-SIZED EQUIPMENT GROUND CONDUCTOR
X = EXISTING FEEDER TO REMAIN UNLESS OTHERWISE NOTED
T = UPSIZED GROUND CONDUCTORS FOR TRANSFORMER SECONDARY
2 - CONDUCTOR AMPACITY
3 - TOTAL NUMBER OF PHASE AND GROUNDED ("NEUTRAL") CONDUCTORS
4 - CONDUCTOR MATERIAL: C = COPPER, A = ALUMINUM
5 - SPECIAL (MAY BE BLANK)
I = ISOLATED GROUND (PROVIDE CONTINUOUS INSULATED ISOLATED GROUND CONDUCTOR(S) FROM INSULATED ISOLATED GROUND BAR(S) TO RESPECTIVE UPSTREAM SERVICE ENTRANCE OR DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR AS APPLICABLE.

SUPPLY TO	SUPPLY FROM	FEEDER ID	FEEDER	INSULATION **	CONDUIT**	DEMAND (A)	VD %	NOTES
UT1							0	
-- SWBD1	UT1	X1600	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			44 A	0.01	
---- 1D	SWBD1	C-MANUAL	MATCH EXISTING FEEDER PROPERTIES			44 A	0.566	

ELECTRIC PANELBOARD AND SWITCHBOARD SCHEDULE

TYPICAL EQUIPMENT NAME NOMENCLATURE:
1 - POWER DISTRIBUTION SYSTEM (BLANK - NORMAL, E - EMERGENCY, S - STANDBY, L - LIFE SAFETY)
2 - DESCRIPTION (H - 480Y/277V, L - 208Y/120V)
3 - FLOOR / LEVEL
4 - SEQUENCE

ALL ALUMINUM BUSSING SHALL BE TIN-PLATED. ALL COPPER BUSSING SHALL BE EITHER TIN-PLATED OR SILVER-PLATED

EQUIPMENT	PHASE	SPACE NUMBER	SPACE NAME	SUPPLY FROM	POWER BRANCH	TYPE	VOLTAGE	PHASE	WIRES	DEMAND (kVA)	DEMAND (A)	MAINS RATING (A)	MAINS FRAME RATING (A)	MAINS TYPE	BUSSING (PLATED)	MOUNTING	FEEDER	LUGS TYPE	SPD	ULSE	GEC	ENCLOSURE TYPE	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	NOTES
1D	New Construction	110	ELEC OR STORAGE	SWBD1		Branch Panelboard	208	3	4	16020 VA	44 A	225	225		(none)	SURFACE	MATCH EXISTING FEEDER PROPERTIES		Yes				6653	10000	

HVAC ELECTRICAL COORDINATION SCHEDULE

ABBREVIATIONS
DC LOCAL DISCONNECT
MC MOTOR CONTROL (POWER)
SD DUCT SMOKE DETECTOR
CN CONTROLS
TS TOGGLE SWITCH
C/B H.A.C.R. CIRCUIT BREAKER AT SOURCE PANELBOARD
FUSE FUSE AT LOCAL DISCONNECT (VERIFY FIELD RATING)
FLA OPERATING FULL LOAD AMPS
MCA MINIMUM CIRCUIT AMPACITY
CP CORD AND PLUG CONNECTION
[BLANK] HARD WIRED (WHEN INDICATED FOR DC TYPE)

CONTRACTOR TYPE
EC ELECTRICAL CONTRACTOR
EX EXISTING
FC FIRE PROTECTION CONTRACTOR
GC GENERAL CONTRACTOR
HC HVAC CONTRACTOR
MFR MANUFACTURER
PC PLUMBING CONTRACTOR
OR OWNER OR OTHERS

MOTOR CONTROL TYPE
CS COMBINATION STARTER
MCC MOTOR CONTROL STARTER
MG MAGNETIC STARTER OR CONTACT
MS MANUAL STARTER
VFD VARIABLE FREQUENCY DRIVE
MSR MANUAL STARTER W/ CONTROL RELAY
OV OVERCURRENT PROTECTION

CONTROL TYPE
TC TIMECLOCK
CPT CONTROL POWER TRANSFORMER
BAS BUILDING AUTOMATION SYSTEM
LOW LOW VOLTAGE CONTROLS
LINE LINE VOLTAGE CONTROLS
RLINE REVERSE ACTING LINE VOLTAGE THERMOSTAT
MAN MANUAL
FA FIRE ALARM
CO CARBON MONOXIDE SENSOR
INT INTEGRAL TO EQUIPMENT
AREA AREA SMOKE DETECTOR
DUCT DUCT SMOKE DETECTOR
ALARM SHUTDOWN EQUIP ON GENERAL FIRE ALARM
FLOW SHUTDOWN ON SPRINKLER FLOW
ANSUL SHUTDOWN ON ANSUL ACTIVATION

SHORT CIRCUIT RATING
WHERE SHORT CIRCUIT RATING CODE REQUIRED VALUE INDICATES "YES" APPLICABLE EQUIPMENT'S SHORT CIRCUIT RATING SHALL EXCEED THE AVAILABLE FAULT CURRENT VALUE INDICATED.

CONNECTION MARK	DESCRIPTION	VOLTAGE	PHASE	EMERGENCY	HP	WATTS	HTG KW	FLA	MCA	OCP	FED FROM	DC TYPE	DC FURN	DC INST	DC WIRE	MC TYPE	MC FURN	MC INST	MC WIRE	CN TYPE	CN FURN	CN INST	CN WIRE	FA SHUTDOWN	SHORT CIRCUIT RATING CODE REQUIRED?	AVAILABLE FAULT CURRENT
EF-1	HVAC EXHAUST FAN	120 V	1	NO	0.167			2.8	3.5	15		DC	EC	EC	EC	ECM	MFR	MFR	MFR	LOW	HC	HC	HC	NONE	No	3707

ELECTRIC EQUIPMENT SUPPLY SCHEDULE

EQUIPMENT MARK	SUPPLY FROM	CKT	EMERG.	LOAD (kVA)	AVAILABLE FAULT CURRENT	VOLTS	POLE	HTG KW	WATT	HP	FLA (A)	MCA (A)	RQD OCP (A)	BREAKER RATING (A)
EF-1	1D	24	NO	0.34	3707	120 V	1			0.167	2.8	3.5	15	15

ELECTRIC FLOOR OUTLET DEVICE SCHEDULE

FLOOR OUTLET DEVICE NOTES:
1. LISTING AND LABELING: FLOOR BOXES SHALL BE LISTED AND LABELED AS WELL AS MARKED FOR INTENDED LOCATION AND APPLICATION.
2. COMPLY WITH UL 514 AND NFPA 70 SCRUB WATER EXCLUSION REQUIREMENTS. MAINTAIN SMOKE AND FIRE RATINGS OF ALL FLOORS AND CEILINGS.
3. PROVIDE BARRIERS TO SEPARATE POWER FROM COMMUNICATIONS.
4. MATCH THE SURROUNDING FLOORING MATERIAL WHEREVER POSSIBLE, AND COORDINATE FINISHED SURFACE MATERIALS WITH ARCHITECTURAL DRAWINGS.
5. PROVIDE MINIMUM 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING FOR EACH GANG IDENTIFIED FOR TECHNOLOGY UNLESS OTHERWISE NOTED.

ACCEPTABLE MANUFACTURERS:
- FSR
- WIREMOLD / LEGRAND
- HUBBELL INCORPORATED

TYPE	BASIS OF DESIGN	FLOOR BOX TYPE	FLOOR CONSTRUCTION	FLOOR BOX MATERIAL	COVER MATERIAL	ACTIVATION	POWER	TECHNOLOGY	COMMENTS
A	LEGRAND RFBA	RECESSED	CONCRETE - SLAB ON GRADE	STEEL - CORROSION RESISTANT	COORDINATE WITH ARCH.	FLUSH	QUAD	2-GANG	

PANEL NAME: 1D

SUPPLY FROM: SWBD1
LOCATION: ELEC OR STORAGE 110
DISTRIBUTION SYSTEM: 208/120V 3PH 4W
FEEDER: MATCH EXISTING FEEDER PROPERTIES
BUSSING:
MAINS RATING (A): 225
MAINS TYPE:
FEEDER ID: C-MANUAL
MOUNTING: SURFACE
FAULT CURRENT (A): 6653
SHORT CIRCUIT RATING (A): 10000
LUGS TYPE:
ENCLOSURE TYPE:
PHASE: New Construction
SURGE SUPRESSION: Yes
ULSE:
200% NEUTRAL:
ISOLATED GROUND:

CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	A	B	B	C	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT
1	(->) LTG 107, 108, 109, 110	--	--	--	20 A	20 A	1	0.00	0.00					1	20 A	20 A	--	--	--	(->) LTG 115, 156, 158, 159	2
3	(->) LTG 111, 114, 102	--	--	--	20 A	20 A	1			0.00	0.00			1	20 A	20 A	--	--	--	(->) UNIT HEATER VEST 143	4
5	(->) LTG 103, 104, 105, 106, LOBBY	--	--	--	20 A	20 A	1					0.00	0.00	1	20 A	20 A	--	--	--	(->) RECEPT 114	6
7	RCPT 115, 116	0.172	#12	#12	20 A	20 A	1	0.36	0.00					1	20 A	20 A	--	--	--	(->) RECEPT 156, 161	8
9	(->) RECEPT 161, 159	--	--	--	20 A	20 A	1			0.00	0.00			1	20 A	20 A	--	--	--	(->) RECEPT 156	10
11	(->) RECEPT RECORDS	--	--	--	20 A	20 A	1					0.00	0.00	1	20 A	20 A	--	--	--	(->) MOTORIZED GRILL	12
13	(->) RECEPT 153, 149, 161	--	--	--	20 A	20 A	1	0.00	1.08					1	20 A	20 A	#12	#12	1.189	RCPT CLERKS OFFICE 105	14
15	(->) RECEPT 149	--	--	--	20 A	20 A	1			0.00	0.48			1	20 A	20 A	#12	#12	0.902	RCPT 114, LOBBY	16
17	(->) RECEPT 106, 107, 108, 109, 110	--	--	--	20 A	20 A	1					0.00	0.00	1	20 A	20 A	--	--	--	(->) RECEPT 108, 109	18
19	(->) RECEPT 109	--	--	--	20 A	20 A	1	0.00	0.00					1	20 A	20 A	--	--	--	(->) RECEPT 107	20
21	(->) LTG 111, 114, 102	--	--	--	20 A	20 A	1			0.00	1.08			1	20 A	20 A	#12	#12	1.717	RCPT BUDGET OFFICE 106	22
23	LTG 101, CORRIDOR	0.231	#12	#12	20 A	20 A	1					1.28	1.24	1	15 A	15 A	#12	#12	0.463	EF-1 | RCPT 107, 108	24
25	LTG HEARING ROOM 115	0.138	#12	#12	20 A	20 A	1	0.59	1.26					1	20 A	20 A	#12	#12	0.436	RCPT, NON-CONT. HEARING ROOM 115	26
27	(->) RECEPT 103, 104, 105, 106	--	--	--	20 A	20 A	1			0.00	0.36			1	20 A	20 A	#12	#12	0.342	RCPT HEARING ROOM 115	28
29	(->) RECEPT 105, 106	--	--	--	20 A	20 A	1					0.00	0.54	1	20 A	20 A	#12	#12	0.627	RCPT HEARING ROOM 115	30
31	(->) RECEPT 104, 105	--	--	--	20 A	20 A	1	0.00	0.90					1	20 A	20 A	#12	#12	0.528	RCPT HEARING ROOM 115	32
33	(->) RECEPT 102, 105	--	--	--	20 A	20 A	1			0.00	0.54			1	20 A	20 A	#12	#12	0.491	RCPT HEARING ROOM 115	34
35	RCPT BREAK ROOM 101	0.405	#12	#12	20 A	20 A	1					0.54	0.72	1	20 A	20 A	#12	#12	0.571	NON-CONT. HEARING ROOM 115	36
37	RCPT BREAK ROOM 101	0.344	#12	#12	20 A	20 A	1	0.36	0.90					1	20 A	20 A	#12	#12	0.119	RCPT AV 111	38
39	(G) REF. | MOTOR BREAK ROOM 101	0.891	#12	#12	15 A	15 A	1			0.80	1.16			1	20 A	20 A	#12	#12	0.918	COPIER | NON-CONT. CORRIDOR 108	40
41	(G) DISPOSAL | MOTOR BREAK ROOM 101	0.737	#12	#12	15 A	15 A	1					0.76	0.18	1	20 A	20 A	#12	#12	0.056	RCPT CORRIDOR 108	42
43	IT RACK	0.546	#12	#12	20 A	20 A	1	0.36	0.18					1	20 A	20 A	#12	#12	0.159	RCPT CORRIDOR 108	44
45	SPARE	--	--	--	20 A	20 A	1			0.00	0.18			1	20 A	20 A	#12	#12	0.22	RCPT CORRIDOR 108	46
47	SPARE	--	--	--	20 A	20 A	1					0.00	0.00	1	20 A	20 A	--	--	--	SPARE	48
49	SPARE	--	--	--	20 A	20 A	1	0.00	0.00					1	20 A	20 A	--	--	--	SPARE	50
51	SPARE	--	--	--	20 A	20 A	1			0.00	0.00			1	20 A	20 A	--	--	--	SPARE	52
53	SPARE	--	--	--	20 A	20 A	1					0.00	0.00	1	20 A	20 A	--	--	--	SPARE	54
	TOTAL CONNECTED LOAD:							6.0 kVA		4.6 kVA		5.2 kVA									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	1871 VA	125.00%	2338 VA
Motor	1892 VA	110.57%	2092 VA
Non-Continuous	1100 VA	100.00%	1100 VA
Receptacle	10980 VA	95.54%	10490 VA

NOTES:

BREAKER QUANTITIES (NEW ONLY)
(1) 15A / 1P, (2) 15A / 1P(G), (51) 20A / 1P

PANEL TOTALS

TOTAL CONNECTED LOAD:	15.8 kVA
DEMAND CALCULATION NOTES:	
TOTAL DEMAND:	16.0 kVA
TOTAL DEMAND AMPS:	44 A

LOAD JUSTIFICATION:

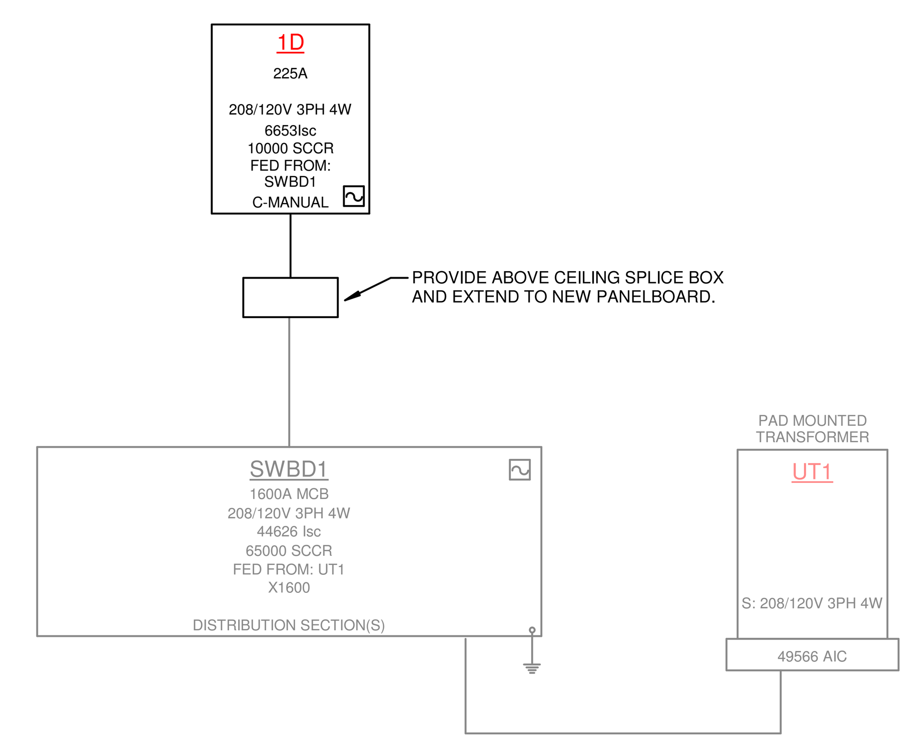
LOAD REMOVED:
DOWN LIGHTS: 33 @ 60VA = 1980 VA
2X4 TROFFERS: 23 @ 64VA = 1472 VA
RECEPTACLES: 46 @ 180VA = 8280 VA

TOTAL REMOVED: 11732 VA

LOAD ADDED:
LIGHTING: 1044 VA
MOTOR: 1556 VA
NON-CONTINUOUS: 840 VA
RECEPTACLE: 8280 VA

TOTAL ADDED: 11720 VA

NET LOAD REMOVED: 12 VA



1 SINGLE LINE DIAGRAM
NOT TO SCALE

PANEL SCHEDULE LEGEND

* = WIRE SIZED TO COMPENSATE FOR VOLTAGE DROP
** = REFER TO DRAWINGS FOR SPECIFICATIONS
(#) = NEW CIRCUIT TO EXISTING CIRCUIT BREAKER
(->) = CONNECT BRANCH CIRCUIT, WHICH WAS DISCONNECTED FROM ANOTHER SOURCE AS PART OF SELECTIVE DEMOLITION, TO POLE SPACE(S) INDICATED, DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING COLOR-CODING OF THE BRANCH CIRCUIT CONDUCTOR INSULATION. PROVIDE NEW BREAKER IF REQUIRED.
(A) = PROVIDE ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER
(AG) = PROVIDE COMBINATION ARC FAULT (AFCI) / GROUND FAULT (GFCI) CIRCUIT INTERRUPTER CIRCUIT BREAKER
(AT) = EXISTING FUSIBLE SWITCH/CIRCUIT BREAKER WITH NEW FUSES/TRIP RATING
(DO) = PROVIDE DRAW-OUT CIRCUIT BREAKER
(ERM) = PROVIDE ENERGY REDUCTION MAINTENANCE (REDUCED ENERGY) CIRCUIT BREAKER
(EX) = EXISTING CIRCUIT TO REMAIN
(F) = CIRCUIT FOR FURTURE USE. PROVIDE BREAKER INDICATED. LOAD SHOWN FOR REFERENCE ONLY.
(G) = PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER
(GE) = PROVIDE GROUND-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER
(GS) = PROVIDE SPECIAL PURPOSE GROUND-FAULT CIRCUIT INTERRUPTER (SPGFCI) CIRCUIT BREAKER
(H) = PROVIDE HANDLE TIE
(L) = PROVIDE LOCK-ON DEVICE
(LI) = PROVIDE ELECTRONIC LONG AND INSTANTANEOUS ADJUSTABILITY
(LSI) = PROVIDE ELECTRONIC LONG, SHORT, AND INSTANTANEOUS ADJUSTABILITY
(LSIA) = PROVIDE ELECTRONIC LONG, SHORT, INSTANTANEOUS, AND GROUND-FAULT ALARM ADJUSTABILITY
(LSIG) = PROVIDE ELECTRONIC LONG, SHORT, INSTANTANEOUS, AND GROUND-FAULT ADJUSTABILITY
(LT) = PROVIDE LOCK-OUT/TAG-OUT DEVICE
SL = SEE THE SINGLE LINE DIAGRAM / SCHEDULE FOR WIRE SIZE AND VOLTAGE DROP
(ST) = PROVIDE SHUNT TRIP CIRCUIT BREAKER

PANEL SCHEDULE GENERAL NOTES

A. PROVIDE HACR RATED BREAKERS ON ALL MOTOR LOADS.
B. ALL CONDUCTORS SHOWN ARE COPPER.
C. ALL VOLTAGE DROP CALCULATIONS AND COMPENSATED WIRE SIZES ARE BASED ON RIGHT ANGLE CIRCUIT LENGTHS. ACTUAL VOLTAGE DROP MAY VARY BASED ON INSTALLED WIRE LENGTH.
D. VOLTAGE DROP CALCULATIONS AND WIRE SIZES SHOWN IN THE PANEL SCHEDULES ARE FOR HOMERUN CONDUCTORS ONLY. FOR CIRCUITS WITH MORE THAN 1 DEVICE, THESE SIZES ASSUME THE CONDUCTORS DOWNSTREAM OF THE HOMERUN DEVICE ARE THE MINIMUM SIZE REQUIRED BY THE NEC BASED ON THE RATING OF THE CIRCUIT. WHERE THIS IS NOT THE CASE, IT HAS BEEN INDICATED ON THE DRAWINGS. VOLTAGE DROP TO THE FARTHEST DEVICE HAS BEEN CALCULATED TO NEVER EXCEED 5%.
E. RECEPTACLE LOADS CALCULATED AT 100% OF FIRST 10kVA, 50% OF REMAINDER. MOTOR LOADS CALCULATED AT 125% OF THE LARGEST MOTOR, 100% OF ALL OTHER MOTORS.

10/9/2025 10:07:56 AM

REVISIONS :

Number	Description	Date
1	BID AND PERMIT	10/7/25

PRINTINGS :
BID & PERMIT 10/3/25
REVIEW
DOCUMENTS

KLH ENGINEERS
KOHRS LONNEMANN HEIL ENGINEERS, INC.
1538 ALEXANDRIA PIKE, SUITE 11
FT. THOMAS, KENTUCKY 41075
800-354-9783 859-442-8050
859-442-8058 FAX
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WWW.KLHENGRS.COM
LEXINGTON, KENTUCKY
LOUISVILLE, KENTUCKY
COLUMBUS, OHIO

MIAMI COUNTY
COMMISSIONER'S HEARING ROOM RENOVATION
201 W Main ST, Troy, OH 45373

PROJECT NO: 27619
CHECKED BY: BMJ
DRAWN BY: LDF
DATE: 10/3/25

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ELECTRIC POWER - SINGLE LINE DIAGRAM & SCHEDULES

E4601