CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION

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DRAWING INDEX

Sheet Number	Sheet Name	Sheet Discipline #
00 GENERAL		
G001	DRAWING LIST	00 GENERAL
G002	ARCHITECTURAL LEGEND, SYMBOLS, & ABBREVIATIONS	00 GENERAL
01 LIFE SAFETY		
LS000	CODE SUMMARY	01 LIFE SAFETY
LS001	CODE SUMMARY	01 LIFE SAFETY
LS100	SECOND FLOOR LIFE SAFETY PLAN	01 LIFE SAFETY
02 ARCH		
D100	SECOND FLOOR DEMOLITION PLAN	02 ARCH
D101	SECOND FLOOR DEMOLITION PLAN - DEDUCT ALT	02 ARCH
D900	SECOND FLOOR REFLECTED CEILING DEMOLITION PLAN	02 ARCH
03 ARCH		
A100	SECOND FLOOR PLAN	03 ARCH
A400	LEAHY - ENLARGED FLOOR PLANS AND ELEVATIONS	03 ARCH
A401	LEAHY- ENLARGED FLOOR PLANS AND ELEVATIONS	03 ARCH
A402	LEAHY- ENLARGED FLOOR PLANS AND ELEVATIONS	03 ARCH
A403	LEAHY- ENLARGED FLOOR PLANS AND ELEVATIONS	03 ARCH
A404	NuHARBOR - ENLARGED FLOOR PLANS AND ELEVATIONS	03 ARCH
A405	NuHARBOR - ENLARGED FLOOR PLANS AND ELEVATIONS	03 ARCH
A700	INTERIOR ELEVATIONS	03 ARCH
A800	INTERIOR PARTITION TYPES & WALL ASSEMBLIES	03 ARCH
A801	TYPICAL INTERIOR DETAILS	03 ARCH
A802	SCHEDULES AND DOOR & FRAME TYPES	03 ARCH
A804	DOOR FRAME DETAILS	03 ARCH
A900	SECOND FLOOR REFLECTED CEILING PLAN	03 ARCH
A1000	SECOND FLOOR FLOORING PLAN	03 ARCH
12 FIRE PROTECTION		
FP001	FIRE PROTECTION LEGEND, NOTES AND ABBREVIATIONS	12 FIRE PROTECTION
FP102	SECOND FLOOR FIRE PROTECTION PLAN	12 FIRE PROTECTION
FPD102	SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN	12 FIRE PROTECTION
13 FIRE ALARM		
FA001	FIRE ALARM LEGEND ABBREVIATIONS & NOTES	13 FIRE ALARM
FA100	LEVEL 2 FIRE ALARM	13 FIRE ALARM
14 MECHANICAL		
A1103	Unnamed	14 MECHANICAL
M001	MECHANICAL LEGEND, NOTES & ABBREVIATIONS	14 MECHANICAL
M102	LEVEL 2 - MECHANICAL DUCTWORK PLAN	14 MECHANICAL
M202	LEVEL 2 - MECHANICAL PIPING PLAN	14 MECHANICAL
M301	MECHANICAL DETAILS	14 MECHANICAL
M302	MECHANICAL DETAILS	14 MECHANICAL
M401	MECHANICAL SCHEDULES	14 MECHANICAL
MD102	LEVEL 2 - MECHANICAL DUCTWORK DEMOLITION PLAN	14 MECHANICAL
MD202	LEVEL 2 - MECHANICAL PIPING DEMOLITION PLAN	14 MECHANICAL
T103	Unnamed	14 MECHANICAL
15 ELECTRICAL		
E001	ELECTRICAL LEGEND ABBREVIATIONS & NOTES	15 ELECTRICAL
E002	EXISTING ELECTRICAL ONE-LINE NEW WORK	15 ELECTRICAL
E003	PANELBOARD SCHEDULES	15 ELECTRICAL
E004	ELECTRICAL EQUIPMENT SCHEDULE	15 ELECTRICAL
E100	LEVEL 2 - LIGHTING PLAN	15 ELECTRICAL
E101	LEVEL 2 - ELECTRICAL POWER PLAN	15 ELECTRICAL
E200	LIGHTING DETAILS & FIXTURE SCHEDULE	15 ELECTRICAL
E300	ELECTRICAL DETAILS	15 ELECTRICAL
ED101	LEVEL 2 - ELECTRICAL DEMOLITION PLAN	15 ELECTRICAL
16 AUDIOVISUAL		
AV001	AUDIOVISUAL LEGEND ABBREVIATIONS & NOTES	16 AUDIOVISUAL
AV101	LEVEL 2 - AUDIOVISUAL PLAN	16 AUDIOVISUAL
AV300	AUDIOVISUAL DETAILS	16 AUDIOVISUAL
17 SECURITY		
SEC001	SECURITY LEGEND, ABBREVIATIONS & NOTES	17 SECURITY
SEC101	LEVEL 2 - SECURITY PLAN	17 SECURITY
18 TELECOM		
T001	TELECOM LEGEND, ABBREVIATIONS & NOTES	18 TELECOM
T101	LEVEL 2 - TELECOM PLAN	18 TELECOM

Grand total: 53

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G001

_ABBREVIATIONS

A	
A/C	AIR CONDITION (ER, ING)
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN, ACCESS DOOR
ADA	AMERICANS W/ DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJUSTABLE / ADJACENT
ADMIN	ADMINISTRATION
AF	ACCESS FLOORING
AFF	ABOVE FINISHED FLOOR
AFP	ACOUSTIC FABRIC PANEL
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE, ALTERATION
ALUM	ALUMINUM
AMP	AMPERES
ANCH	ANCHOR
AP	ACCESS PANEL
APPVD	APPROVED
APROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASSY	ASSEMBLY
ATR	ATRIUM
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AVB	AIR VAPOR BARRIER
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
B	
B.O.	BOTTOM OF
BB	BULLETIN BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BENCHMARK, BEAM
BRKT	BRACKET
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTW	BETWEEN
BYND	BEYOND
C	
CAB	CABINET
CB	CATCH BASIN, CHALKBOARD
CCP	COMPACT CAR PARKING
CCTV	CLOSED CIRCUIT TV
CFB	CEMENT FIBER BOARD
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CHEM	CHEMICAL, CHEMISTRY
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTERLINE, CLEARANCE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR, COLOR
CMPTR	COMPUTER
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITE(ION), COMPOSED
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CP	CONTROL PANEL
CPT	CARPET
CPTT	CARPET TILE
CSK	COUNTERSUNK, COUNTERSINK
CT	CERAMIC TILE
CTRL	CONTROL
CUH	CABINET UNIT HEATER
CW	COLD WATER, CLOCKWISE
D	
D	DEEP, DATA (OUTLET)
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVISION, DIVIDER
DN	DOWN
DP	DAMP PROOFING
DR	DOOR
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
E	
E	EAST, ELECTRICAL (OUTLET)
EA	EACH
EC	ELECTRICAL CABINET
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION (GRADE)
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR, ELEVATION
EMER	EMERGENCY

_ABBREVIATIONS

ENCL	ENCLOSED, ENCLOSURE
EP	ELECTRICAL PANEL
EPOX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EW	EYE WASH, EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXAM	EXAMINATION
EXC	EXCAVATED, EXCAVATION, EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXIST	EXISTING
EXP	EXPOSED, EXPANSION
EXT	EXTERIOR
F	
F.D.	FLOOR DRAIN
FA	FIRE ALARM
FACIL	FACILITY
FC	FIRE CODE
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FUME HOOD
FHC	FIRE HOSE CABINET
FHEC	FIRE HOSE & EXTINGUISHER CABINET
FIN	FINISH(ED)
FL	FLOOR LINE, FLOOR
FLEX	FLEXIBLE
FLR	FLOOR(ING)
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIREPROOF(ING)
FREQ	FREQUENCY
FRMG	FRAMING
FS	FULL SIZE, FLOOR SINK
FT	FOOT, FEET
FTG	FOOTING
FTR	FIN TUBE RADIATION
FURN	FURNITURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
G	
G	GAS (OUTLET)
GA	GAUGE, GAGE
GAL	GALLON
GALV	GALVANIZE(D)
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING, GLAZED
GLU LAM	GLUE LAMINATED
GOVT	GOVERMENT
GRN	GRANITE
GWB	GYPSUM WALLBOARD
GYP BD	GYPSUM BOARD
H	
H	HIGH, HEIGHT
H.P.	HIGH POINT
HB	HOSE BIB
HC	HANDICAP ACCESSIBLE / PERSON
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HANDICAP PARKING
HPC	HIGH PERFORMANCE COATING
HR	HOUR
HT	HEIGHT
HTR	HEATER
HVAC	HEATING/VENTILATION/AIR COND.
HW	HOT WATER
I	
IBC	INTERNATIONAL BUILDING CODE
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE(ING)
INFO	INFORMATION
INSUL	INSULATE(D)(ING)(ION)
INT	INTERIOR
INV	INVERT
J	
J-BOX	JUNCTION BOX
JAN	JANITOR
JT	JOINT
K	
KIT	KITCHEN
KPL	KICK PLATE
L	
L.O.W.	LIMIT OF WORK
L.P.	LOW POINT
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LMF	LIGHT GAUGE METAL FRAMING
LT	LIGHT
LTG	LIGHTING
LVL	LEVEL
LVR	LOUVER

_ABBREVIATIONS

M	
M.O.	MASONRY OPENING
MACH	MACHINE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MBL	MARBLE
MBR	MEMBER
MC	MEDICINE CABINET, MINERAL CORE
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MGR	MANAGER
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MLDG	MOULDING
MP	METAL PANEL
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING, MEETING
MTL	METAL
N	
N	NORTH
N/A	NOT APPLICABLE
NC	NON-CORROSIVE
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	
O.C.	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAM.,OUTSIDE DIMENSION
OFF	OFFICE
OH	OPPOSITE HAND
OPER	OPERATING
OPN(G)	OPEN(ING)
OPP	OPPOSITE
OZ	OUNCE
P	
PA	PUBLIC ADDRESS
PAT	PATTERN(ED)
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	PRECAST CONCRETE PANEL
PERF	PERFORATED
PERIM	PERIMETER
PG	PLATE GLASS
PH	PENTHOUSE, PHASE
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLEX	PLEXIGLASS
PLYWD	PLYWOOD
PNL(G)	PANEL(ING)
PNT	PAINT(ED)
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT, PTD	PAINT(ED)
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWC	PROTECTIVE WALL COVERING
PWR	POWER
Q	
QT	QUARRY TILE
QTY	QUANTITY
R	
R	RADIUS, RISER
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
RA	RETURN AIR
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RECIRC	RECIRCULATION
REF	REFERENCE
REFG	REFRIGERATOR
REINF	REINFORCE(D)(ING)
REQD	REQUIRED
RES	RESINOUS (WALL OR FLOORING)
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RFG	ROOFING
RH	RIGHT HAND, ROOF HATCH
RM	ROOM
RTU	ROOF TOP UNIT
RWL	RAINWATER LEADER

_ABBREVIATIONS

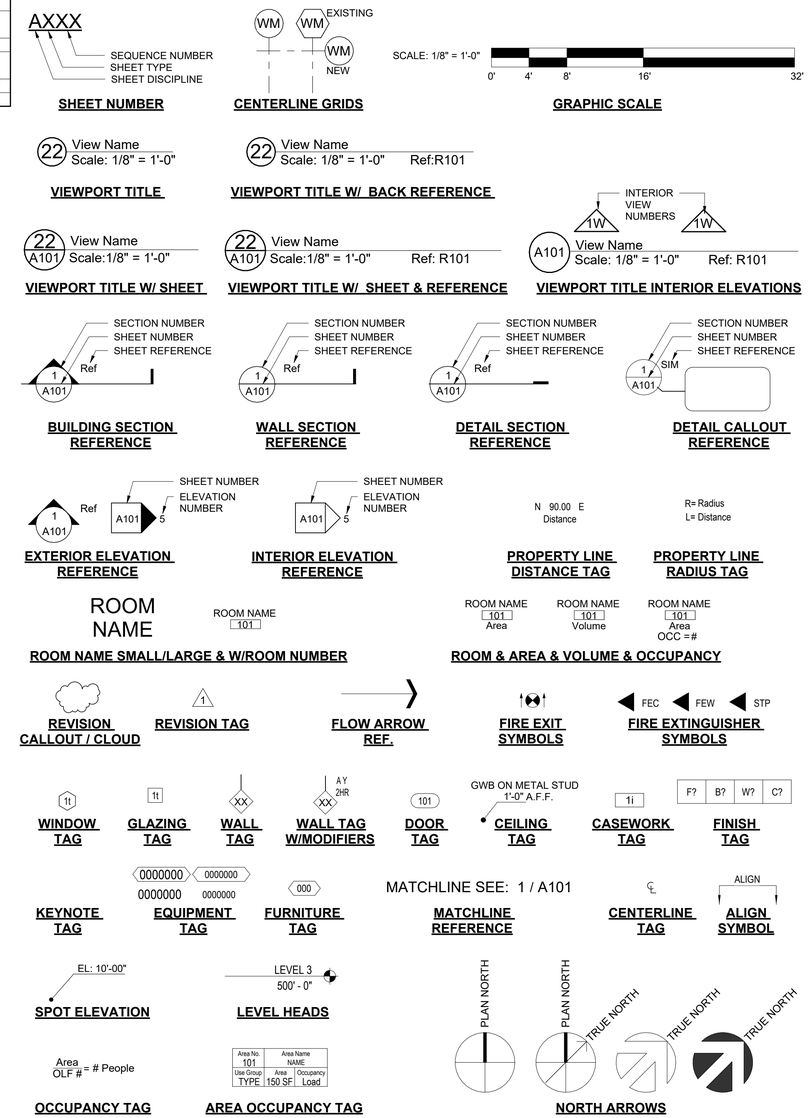
S	
S	SOUTH
SA	SUPPLY AIR
SALV	SALVAGE(D)
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SCONC	SEALED CONCRETE
SCR	SCREEN, SHOWER CURTAIN ROD
SD	STORM DRAIN, SMOKE DETECTOR
SECT	SECTION
SF	SQUARE FEET
SFP	SPRAY-ON FIREPROOFING
SGL	SPANDREL GLAZING
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SK	SKETCH
SKLT	SKYLIGHT
SL, SLNT	SEALANT
SP	STANDPIPE
SPEC	SPECIFICATION, SPECIFIED
SPKLR	SPRINKLER
SPKR	SPEAKER
SPLY	SUPPLY
SQ	SQUARE
SS	STAINLESS STEEL, STANDING SEAM
ST	STREET
ST, STR	STAIR
STD	STANDARD
STL	STEEL
STL JST	STEEL JOIST
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMBOL
SYS	SYSTEM
T	
T	TREAD
T&G	TONGUE AND GROOVE
T.D.	TRENCH DRAIN
T.O.	TOP OF...
T.O.C.	TOP OF CURB, TOP OF CONCRETE
T.O.S.	TOP OF STEEL, TOP OF SLAB
T.O.W.	TOP OF WALL
T/D	TELEPHONE/DATA
TB	TACK BOARD, TOWEL BAR
TEMP	TEMPORARY, TEMPERATURE
TERR	TERRAZZO, TERRACE
TG	TEMPERED GLASS
THK	THICK(NESS)
THRU	THROUGH
TLT	TOILET
TMPD	TEMPERED
TPTN	TOILET PARTITION
TS	TUBE STEEL
TSTAT	THERMOSTAT
TV	TELEVISION
TWC	TEXTILE WALL COVERING
TYP	TYPICAL
U	
UCL	UNDER CABINET LIGHT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY, INC.
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
V	
VAR	VARIES
VB	VAPOR BARRIER, VINLY BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION, VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VOL	VOLUME
VP	VENEER PLASTER
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	
W	WEST, WIDE, WATER
W.P.	WORKING POINT
W/	WITH
W/O	WITHOUT
WB	WHITE BOARD, WOOD BASE
WC	WATER CLOSET, WALL COVERING
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE (STEEL), WOOD FLR
WGL	WIRE GLASS
WH	WALL HUNG
WP	WATERPROOF, WEATHERPROOF
WPM	WATERPROOF MEMBRANE
WPNL	WOOD PANELING
WR	WASTE RECEPTACLE, WATER REPELLANT, WATER RESISTANT
WS	WEATHERSTRIP, WALL SCONCE
WSCT	WAINSCOT
WT	WEIGHT, WINDOW TREATMENT
WWF	WELDED WIRE FABRIC

_ABBREVIATIONS

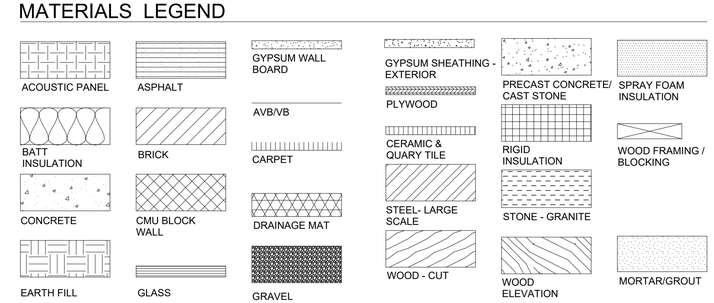
Y	
YD	YARD, YARD DRAIN
Z	
ZCC	ZINC COATED COPPER
ZCM	ZINC COMPOSITE MATERIAL

SYMBOLS LEGEND

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS



MATERIALS LEGEND



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CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

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KEY PLAN

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ISSUES/REVISIONS

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G002

Introduction

Existing Building Description

The existing Lakeside Miller Center building is located at 175 Lakeside Avenue in Burlington, VT. The building was constructed in 2010 on the Champlain College campus and primarily contains office and research spaces. The First Floor includes additional collaboration, dining, and lecture spaces. The building is three stories in height with a footprint area of 12,000 sf and an aggregate area of 36,000 sf. The construction type of the building includes noncombustible, unprotected structure (Type IIB/ Type II(000)). The building is equipped with an automatic sprinkler system that provides coverage throughout and a fire alarm and detection system. Two exit stairs serve the Second and Third Floors that discharge directly to the exterior at the First Floor. An elevator also provides vertical access to all Floors.

Project Description

The project includes renovations throughout the Second Floor to facilitate the fitout of the Leahy Center and the NuHarbor office space. The proposed Leahy Center includes a cyber range, digital forensics lab, back-office computer lab, digital training lab, internet of things lab, conference room, lobby space, and offices. The NuHarbor space includes open office space with small, enclosed breakout and office spaces.

Applicable Codes

The major codes adopted in the State of Vermont are identified below. Codes of record typically vest with the date of building permit application for a project unless otherwise required or approved by the AHJ.

Building and Fire Code — 2015 Vermont Fire and Building Safety Code (VFBSC), which is an amended version of:

- NFPA 101, *Life Safety Code*, 2015 Edition
- International Building Code (IBC), 2015 Edition
- International Existing Building Code (IEBC), 2015 Edition
- NFPA 1, *Fire Code*, 2015 Edition

Plumbing Code — 2021 Vermont Plumbing Rules, which is an amended version of the 2021 International Plumbing Code (IPC)

Electrical Code — 2020 Vermont Electrical Safety Rules, which is an amended version of the 2020 Edition of NFPA 70, National Electrical Code.

Mechanical Code — Vermont Fire and Building Safety Code (VFBSC), which is an amended version of the 2015 edition of NFPA 1, *Fire Code,* and adopts the 2015 edition of NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*

Energy Code — 2020 Commercial Building Energy Standards (CBES) for Vermont

Accessibility Regulations — 2012 Vermont Access Rules
2010 ADA Standards for Accessible Design

Other — Various National Fire Protection Association (NFPA) codes and standards as referenced by the codes listed above notably including:

- NFPA 10 – Standard for Portable Fire Extinguishers (2013 Edition)
- NFPA 13 – Standard for the Installation of Sprinkler Systems (2013 Edition)
- NFPA 72 – National Fire Alarm and Signaling Code (2013 Edition)

Per the VFBSC, the following table outlines which codes are applicable based on the scope of work.

Applicable Code by Project Type	
Building Element/Scope of Work	**Applicable Code**
Addition – New Construction	International Building Code, 2015 Edition
Structural System	International Existing Building Code, 2015 Edition
Renovation Work	Chapter 43 - NFPA 101 – Life Safety Code, 2015 Edition
New and Existing Building Elements and Features	NFPA 1 - Fire Code, 2015 Edition
Construction Type Classification	NFPA 220 - Standard on Types of Building Construction, 2015 Edition

Existing Building Code Scoping Requirements

General Requirements

Portions of an existing building undergoing repair, alteration, addition, or a change of occupancy are subject to the requirements of the VFBSC and Life Safety Code (LSC). Where permitted by the LSC, existing materials and conditions can remain provided they were installed in accordance with the code at the time of original installation and are not deemed a hazardous condition by an authority having jurisdiction (AHJ) (NFPA 101, 4.6.7.3). All new work in existing buildings is required to comply with the materials and methods in accordance with the VFBSC, or the applicable code for new construction unless otherwise specified by the LSC (NFPA 101, 43.4.1.3). Alterations to an existing building or portion thereof are not permitted to reduce the level of safety currently provided within the building unless a portion altered complies with the requirements of the VFBSC for new construction (NFPA 101, 4.6.7.4, 4.6.7.5, & 43.4.1.4).

Where compliance with the requirements of the code for new construction is impractical due to construction difficulties or regulatory conflicts, compliance alternatives may be approved by the building official. Any compliance alternatives being sought are required to be identified on the submittal documents (NFPA 101, 1.4).

Classification of Work

The scope of work includes the rearrangement of interior partitions throughout a portion of the Second Floor to provide a lab and office space for the Leahy Center. Existing fire protection and building systems are being reconfigured to maintain full coverage to the renovated space. The project is classified as a **Reconstruction** on the Second Floor of the Lakeside Miller building since the scope of work includes the construction of a corridor serving the Floor. **Reconstruction** projects are subject to compliance with NFPA 101 43.4, 43.5, and 43.6. The definition of the reconstruction work classification is included below.

Reconstruction: The reconfiguration of a space that affects an exit or a corridor shared by more than one occupant space; or the reconfiguration of a space such that the rehabilitation work area is not permitted to be occupied because existing means of egress and fire protection systems, or their equivalent, are not in place or continuously maintained (NFPA 101, 43.2.2.1.4).

Code Analysis

Use and Occupancy Classifications

Primary Occupancies

The Miller Center is considered to be a nonseparated mixed occupancy building. The Second Floor of the building includes higher education research spaces, collaboration areas, and offices. Collaboration spaces on the Floor have occupant loads that do not exceed 49. The Second Floor is classified as a **Group B, Business** occupancy throughout (VFBSC 303.1.2 & NFPA 101, 6.1.2.1).

The scope of work for the project includes the reconfiguration of office spaces and the replacement of furniture and as such, the project is not considered a change of occupancy.

Accessory Occupancies

The Second Floor contains accessory **Group S-2, Storage** occupancies which do not exceed 10 percent of the area of the story on which they are located, evaluated collectively across all accessory occupancies on the Floor (VFBSC 508.2.3 & NFPA 101, 6.1.14.1.3).

Building Construction

Construction Classification

The base building construction drawings from 2010 indicate that the building is constructed with unprotected noncombustible construction, concrete floors, and a noncombustible exterior. Furthermore, the code summary prepared for base building construction indicates Type 2b construction. This construction type is most consistent with **Type IIB (Type II(000))** construction under the current code.

Structural Fire-Resistance

All new and altered building elements are required to comply with the fire-resistance ratings indicated in the following table (VFBSC Table 601; NFPA 101, 8.2.1.2; NFPA 220, Table 4.1.1).

Fire Resistance Rating of Building Elements - Type IIB (Type II(000))	
Building Element	**Fire Resistance Rating [1]**
Primary structural frame	0 Hours
Primary structural frame supporting only a roof structure	0 Hours
Exterior bearing walls	0 Hours
Interior bearing walls	0 Hours
Interior bearing walls supporting only a roof structure	0 Hours
Nonbearing exterior walls	See "Exterior Walls" Section
Floor construction and secondary members	0 Hours
Roof construction and secondary members	0 Hours

1. The supporting construction for a rated fire barrier or horizontal assembly is required to afford the fire-resistance rating of the fire barrier supported (VFSBSC 707.5.1 & 711.2.3; NFPA 101, 8.2.3.3).

Note that Type IIB (Type II(000)) buildings are required to be constructed of noncombustible materials except where permitted by VFBSC 603.

Exterior Walls & Openings

Alterations are not planned to the exterior walls, but if any work affecting exterior walls is added into the scope of work, an evaluation of exterior wall ratings and openings is required (VFBSC 602 & 705.8; NFPA 101, 43.4.1.3).

The Second Floor is served by two exit enclosures, which are separated from the remainder of the building with 1-hour rated construction. The 2010 documentation indicates that the protection of the exterior walls of the building extends 10′ from both stairs in lieu of rating the stairway exterior walls (NFPA 101, 7.2.2.5.2).

Refer to Sheet LS100 for details relative to the existing stairway enclosures which are required to be maintained.

Interior Walls

Fire/Smoke Resistive Assemblies

The scope of work for the project includes the reconfiguration of walls and partitions and the creation of a new corridor on the Second Floor.

New walls or alterations to existing walls are required to comply with the VFBSC (NFPA 101, 43.4.1.3). The following table indicates the interior walls and partitions on the Second Floor which are required to be maintained as fire/smoke resistive assemblies.

Fire/Smoke Resistive Assemblies		
Type of Assembly	**Construction**	**Code Reference**
Group B Corridors	No Rating Required	NFPA 101, 7.1.3.1(1)
Shafts connecting three stories or less	1-hour fire barrier	VFBSC 713.4 NFPA 101, 8.6.5(2)

The building is served by two exit stairs, an elevator, and an MEP shaft connecting all three floors. These shafts are indicated to be enclosed with 1-hour rated construction on the 2010 base building drawings. No alterations are proposed to the existing rated construction as part of the project.

Penetrations

Through & Membrane Penetrations

New penetrations of fire-resistance-rated walls and horizontal assemblies that are not protected with dampers or a shaft are required to comply with this section. Ducts and air transfer openings that are protected by dampers are required to comply with the following section of this report.

Through and membrane penetrations of fire-resistance-rated walls and fire-resistance-rated horizontal assemblies are required to be protected by an approved penetration firestop system installed as tested in accordance with ASTM E 814 or UL 1479, with a minimum positive pressure differential of 0.01 inch of water (VFBSC 714.3 & 714.4; NFPA 101, 8.3.4.2.2). Penetrations of fire-resistance-rated walls should have an F rating of not less than the required fire-resistance rating of the wall penetrated (VFBSC 714.4.1; NFPA 101, 8.3.4.2.3). Penetrations of fire-resistance rated horizontal assemblies should have an F rating/T rating of not less than 1 hour but not less than the required rating of the floor penetrated (VFBSC 714.4.1.2; NFPA 101, 8.3.4.2.4).

Ducts and Air Transfer Openings

Where new dampers are installed, they are required to be listed and bear the label of an approved testing agency (VFBSC 717.3.1; NFPA 101, 8.4.6.1). Fire dampers are required to be tested in accordance with UL 555 and smoke dampers must be tested in accordance with UL 555S. Combination fire/smoke dampers are required to comply with both test standards.

New fire dampers in the Miller Center are required to be rated for 1.5 hours (VFBSC 717.3.2.1; NFPA 90A, 5.4.1.1). Smoke damper leakage ratings are required to be Class I or II. Elevated temperature ratings are not permitted to be less than 250°F (VFBSC 717.3.2.2). Combination fire/smoke dampers are required to comply with both rating requirements (VFBSC 717.3.2.3; NFPA 101, 5.4.3). Refer to VFBSC 717.3.3 and NFPA 90A, 5.4.5 for required damper actuation methods.

Fire, smoke, and fire/smoke dampers are required to be provided with an approved means of access that permits inspection and maintenance of the damper and its operating parts (VFBSC 717.4; NFPA 90A 5.4.8). Access points are required to have permanent labels with letters that are not less than ½ inch in height that reads "FIRE/SMOKE DAMPER, SMOKE DAMPER, or FIRE DAMPER".

Vertical Openings

Existing Vertical Openings

The building is served by two exit stairs, an elevator, and an MEP shaft connecting all three floors. All vertical openings are enclosed with 1-hour rated construction, based on base building construction documentation from 2010. These existing vertical openings comply with NFPA 101, and new vertical openings are not proposed as part of the project (NFPA 101, 8.6.5).

Interior Finishes

Wall and Ceiling Finishes

New interior wall and ceiling finish ratings are required to be classified in accordance with ASTM E 84 or UL 723 (NFPA 101, 43.4.3 & 10.2.3). The flame spread and smoke-developed indexes are not permitted to be greater than that specified in the following table based on the occupancy classifications (NFPA 101, 39.3.3.2 & 42.3.3.1).

Interior Wall & Ceiling Finish Requirements			
Occupancy Classification	**Exit Enclosures**	**Corridors, Exit Access Stairways/Ramps**	**Rooms and Enclosed Spaces**
B (Business)	Class A, B, or C	Class A, B, or C	Class A, B, or C
S-2 (Storage)	Class A, B, or C	Class A, B, or C	Class A, B, or C

Interior finishes are grouped in the following classes: Class A – flame spread index 0-25, Class B – flame spread index 26-75, Class C – flame spread index 76-200.

Interior Floor Finish

New interior floor covering materials are required to comply with the requirements of NFPA 101 section 10.2.7. Carpet and carpet like interior floor finishes are required to comply with ASTM D 2859, and interior floor finishes other than carpet are required to have a minimum critical radiant flux of 0.1 W/cm². Interior floor finishes are required to be Class I or Class II in accordance with NFPA 101, 10.2.7.4.

Fire Protection Systems

Automatic Sprinkler Systems

The Miller Center is provided with an automatic sprinkler system that is indicated to provide coverage throughout on the base building drawings. The existing system is required to be reconfigured and extended as necessary to maintain full coverage in accordance with NFPA 13 and the VFBSC as part of the project.

Fire Extinguishers

Portable fire extinguishers are required in all occupancies within the building and are required to be selected and installed in accordance with this section and NFPA 10 (VFBSC 906.1).

The maximum travel distance to an extinguisher for Class A fire hazards (ordinary combustibles) is not permitted to exceed 75 feet. The maximum travel distance to an extinguisher for Class B fire hazards (flammable and combustible liquids) is not permitted to exceed 50 feet (VFBSC 906.3).

Emergency Systems

Fire Alarm and Detection Systems

The building is provided with a fire alarm and detection system. The fire alarm system is required to be reconfigured and extended as necessary to maintain full coverage in accordance with NFPA 72 and the VFBSC.

Means of Egress

Means of egress on the Second Floor are required to comply with NFPA 101. The Second Floor is provided with two enclosed exit stairs which discharge directly to the exterior at the First Floor.

Occupant Load

The number of occupants is calculated at the rate of one occupant per unit of area as prescribed in the following table (NFPA 101, 7.3.1.2). The occupant load is permitted to be increased from the occupant load established for the given use where all other requirements of NFPA 101 are met (NFPA 101, 7.3.1.3).

Occupant Load Factors	
Function of Space	**Occupant Load / SF**
Collaboration Space	15 net
Flex Laboratory	50 net
Office / Research Space	100 gross
Storage, Building Service Areas	300 gross

Refer to Sheet LS100 for detailed occupant load calculations.

Egress Width

The required egress capacity for means of egress components is based on the following capacity factors (NFPA 101, 7.3.3.1).

Egress Width Factors	
Stairways (inches of width per person)	**All Other Components (inches of width per person)**
0.3	0.2

The proposed Second Floor is provided with sufficient egress capacity. Refer to Sheet LS100 for detailed egress capacity calculations.

Number of Exits

The number of exits or access to exits required from a given story is not permitted to be less than that specified in the following table (NFPA 101, 7.4.1.2).

Minimum Number of Exits or Exit Access Required	
Occupant Load	**Number of Exits or Exit Access Required**
1 – 500	2
501 – 1,000	3
> 1,000	4

Two exits or exit access doorways are also required to be provided from any space where the common path of travel distances in the following table are exceeded (NFPA 101, 7.4.1.1, 39.2.5.3.1, & 42.2.5):

Common Path of Egress Travel	
Occupancy	**Maximum Common Path of Travel Distance**
B (Business)	100 feet
S-2 (Storage)	100 feet

The Second Floor is served by two enclosed exit stairs. The proposed Leahy Center and NuHarbor spaces are each provided with two exit access doors to the corridor.

Exit Access Travel Distance

Exit access travel distances are not permitted to exceed the maximum values specified in the following table (NFPA 101, 7.6, 39.2.6.3, & 42.2.6).

Exit Access Travel Distance	
Occupancy	**Maximum Travel Distance**
B (Business)	300 feet
S-2 (Storage)	400 feet

The travel distances from the proposed spaces are less than the limitations above. Refer to Sheet LS100 for travel distance measurements from the most remote points on the proposed floor to the exits.

Corridors

The width of new/altered corridors is not permitted to be less than that specified in the following table or as determined using the egress factors outlined in the "Egress Width" Section of this Code Summary based on the occupant load served (NFPA 101, 7.3.4.1, 39.2.3.2).

Minimum Corridor Width	
Occupancy	**Minimum Width**
Existing Corridors	28 inches
New corridors with an occupant load < 50 people	36 inches
Any areas not listed above	44 inches

The scope of work for the project includes the construction of a new exit access corridor. New exit access corridors in the building are not required to be rated (NFPA 101, 7.1.3.1).

Dead end corridors are not permitted to exceed 50 feet in length, except for storage occupancies protected throughout with an automatic sprinkler system, which are permitted have 100-foot dead end corridors (NFPA 101, 39.2.5.2 & 42.2.5).

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Doors

The scope of work includes the installation and reconfiguration of exit access doors throughout the Second Floor. New doors are required to comply with NFPA 101, 7.2.1. Major requirements include:

- **Width.** Doors are required to be a minimum of 32 inches in clear width and are not permitted to have a swinging door leaf greater than 48 inches in nominal width (NFPA 101, 7.2.1.2.3).
- **Landings.** Level landings are required to be provided on each side of the door (NFPA 101, 7.2.1.3).
- **Door Swing.** Egress doors are required to be of the pivoted or side-swinging type and are required to swing in the direction of egress travel where serving an occupant load of 50 or more persons (NFPA 101, 7.2.1.4).
- **Doors in Series.** Space between two doors in series is required to be a minimum of 48 inches plus the width of the door swinging into the space. Doors in series are required to swing either in the same direction or away from the space between the doors (ADA 404.2.6).

Exit Remoteness

Where two exits or exit access doorways are required from any portion of the exit access, the exit doors or exit access doorways are required to be placed a distance apart equal to not less than one-third of the length of the maximum overall diagonal dimension of the building or area served, measured from the nearest edge of the exits or exit accesses (NFPA 101, 7.5.1.3.2 & 7.5.1.3.3).

Each of the proposed spaces are provided with two remote means of egress and the exits serving the Floor are sufficiently separated.

Exit Signage

Throughout the rehabilitation work area, the path of egress travel to exits and within exits is required to be marked by readily visible exit signs to clearly indicate the direction of egress travel where the exit or path of travel is not immediately visible (NFPA 101, 43.6.2.2.1). Exit signs within corridors and exit passageways are required to be placed such that no point is more than 100 feet or the listed viewing distance for the sign, whichever is less, from the nearest visible exit sign (NFPA 101, 7.10.1 & 38.2.10).

Egress Illumination

Means of egress throughout the rehabilitation work area is required to comply with NFPA 101 (NFPA 101, 43.6.2.2.1 & 38.2.8). The means of egress, including the exit discharge, is required to be illuminated at all times the building served by the means of egress is occupied. The illumination level is not permitted to be less than 1 footcandle (11 lux) at the walking surface, except for stairs which are required to have an illumination level of not less than 10 footcandles (108 lux) when the stair is in use (NFPA 101, 7.8.1.3).

In the event of power supply failure in rooms or spaces that require two or more means of egress, an emergency electrical system automatically illuminates all the following areas (NFPA 101, 38.2.9 & 7.9.1.1):

- Exit enclosures.
- Exterior landings as required for exit discharge doors.

The initial illumination of the egress lighting is required to be an average of 1 footcandle and a minimum at any point of 0.1 footcandle (1 lux) measured along the path of egress at the floor level. Illumination levels are permitted to decline to 0.6 footcandle average and a minimum of 0.06 footcandle at the end of the emergency lighting time duration (NFPA 101, 7.9.2).

Accessibility Scoping

All new and altered public spaces are required to be designed to be accessible in accordance with the Vermont Access Rules (2010 ADAAG with amendments).

The American with Disabilities Act (ADA) is federal civil rights law enacted in 1990 and enforced by the U.S. Department of Justice (DOJ). The 2010 ADA Standards require altered portions of an existing building to be readily accessible to and usable by individuals with disabilities to the maximum extent feasible (ADA 35.151(b)). Further, alterations to primary function areas should be made such that the level of accessibility, including the path of travel to the space, is made accessible to the maximum extent feasible. When determining if the upgrade is feasible, the ADA requirements state that the upgrade to the path of travel is disproportionate to the project when the cost to perform the work exceeds 20% of the cost of the alteration to the primary function area. Where costs exceed the 20% value, compliance is recommended being prioritized in the following order:

1. An accessible entrance
2. An accessible route to the primary function area
3. Restroom access
4. An accessible telephone
5. An accessible drinking fountain
6. Access to other elements such as parking and storage

The accessibility of existing elements in the building was not verified. However, based on existing drawings, an accessible entrance to the building appears to be provided, and the Second Floor is provided with an elevator and an accessible stall within each restroom.

Plumbing Code

Since the scope of work for the project includes an increase in the proposed occupant load on the Second Floor, the number of plumbing fixtures provided is required to support the proposed occupant load (VPR 102.5)

The minimum number of plumbing fixtures are based upon the use and occupancy classification of the building or space. The actual number of fixtures are determined using the calculated occupant load in accordance with the VFBSC and NFPA 101 unless approved by the code official (VPR 403.1). Occupants are permitted to travel one story above or below in order to reach the required fixtures provided that the travel distance does not exceed 500 ft. (VPR 403.3.3).

Plumbing Fixture Factor Summary Table

Use Group	Toilets		Urinals	Lavatories		Drinking Fountain	Service Sink
	F	M		F	M		
Lecture / Meeting (A-3)	1 per 65	1 per 125	67% substitution	1 per 200		1 per 500	1 Required
Business (B)	1 per 25 for the first 50 and 1 per 50 for the remainder		50% substitution	1 per 40 for the first 80 and 1 per 80 for the remainder		1 per 100	1 Required

The plumbing fixtures are shared throughout the building. Occupants with access to the building are able to access the core restrooms on every floor.

The number of existing fixtures provided in the building is outlined below.

Female Restrooms
9 Water Closets
9 Lavatories

Male Restrooms
4 Water Closets
9 Lavatories
6 Urinals

The following table demonstrates compliance with the required number of plumbing fixtures in the building. The calculated occupant loads on all levels were determined in accordance with NFPA 101, 7.3.1.2 based on existing drawings and furniture documentation.

Plumbing Fixture Calculations

Floor	Occupant Load	Classification	Water Closets		Lavatories	Drinking Fountains [1]
			Female	Male		
Levels 1-3	429	Office (B)	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 100
			5.29	5.29	3.68	4.29
	189	Breakout / Classroom (A-3)	1 per 65	1 per 125	1 per 200	1 per 500
			1.45	0.76	0.31	0.38
	Total Required Fixtures		**6.74**	**6.05**	**3.99**	**4.67**
	Total Required Fixtures		**7**	**7 [2]**	**4**	**5**
	Total Provided Fixtures		**9**	**4 (+ 6 Urinals)[2]**	**9**	**3**

1. Water dispensers are permitted to be substituted for up to 50% of the required drinking fountains (VPR 410.4). The combined number of drinking fountains and water dispensers should be confirmed.
2. Of the required 6 male toilets up to 3 are permitted to be substituted for urinals.

The building is provided with a sufficient number of water closets and lavatories.

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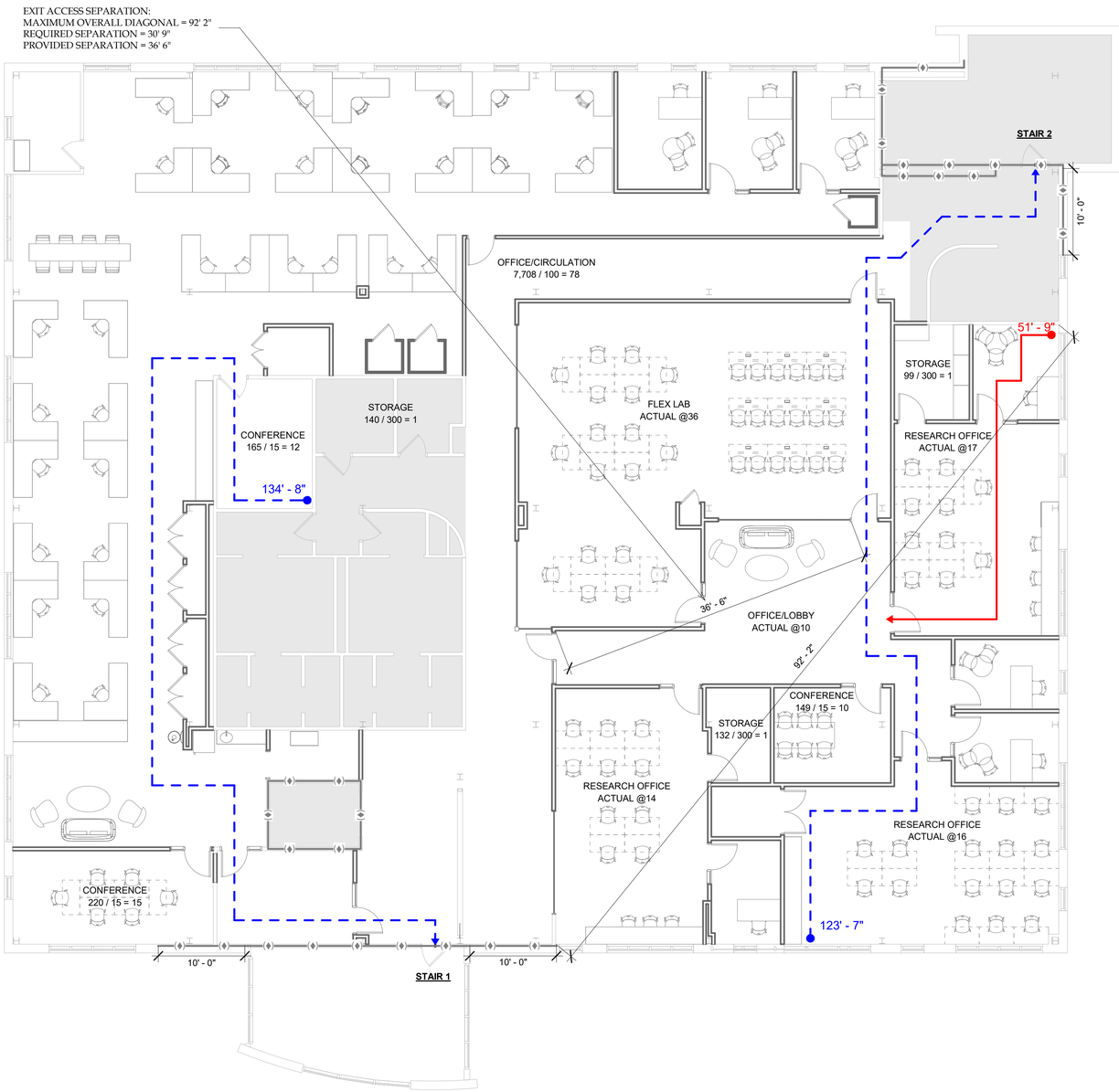

1 SECOND FLOOR
1/8" = 1'-0"

LIFE SAFETY LEGEND

WALL RATINGS

1-HOUR FIRE BARRIER [EXISTING] . . . . . .

EXIT ACCESS TRAVEL DISTANCE

TRAVEL DISTANCE TO EXIT XX'

COMMON PATH OF TRAVEL DISTANCE

COMMON PATH OF TRAVEL XX'

OCCUPANT LOAD TAG

ROOM NAME

AREA (SF)

SAMPLE ROOM
55,000 / 200 = 275

OCCUPANT LOAD

OCCUPANT LOAD FACTOR (SF/PERSON)

EXIT TAG

EXIT DESIGNATION

EXIT 1

HATCHING

NOT IN ARCHITECTURAL SCOPE:

OCCUPANT LOAD SUMMARY TABLE - SECOND FLOOR

FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR	CALCULATED OCCUPANT LOAD	FINAL OCCUPANT LOAD*
CONFERENCE	149 SF	15 SF	10	10
CONFERENCE	220 SF	15 SF	15	15
CONFERENCE	165 SF	15 SF	12	12
FLEX LAB	1,346 SF	50 SF	27	36
OFFICE/CIRCULATION	7,708 SF	100 SF	82	78
OFFICE/LOBBY	849 SF	100 SF	9	10
RESEARCH OFFICE	604 SF	100 SF	7	17
RESEARCH OFFICE	635 SF	100 SF	7	14
RESEARCH OFFICE	607 SF	100 SF	7	16
STORAGE	140 SF	300 SF	1	1
STORAGE	99 SF	300 SF	1	1
STORAGE	132 SF	300 SF	1	1
	12,652 SF			211

*ACTUAL OCCUPANT LOADS ARE USED WHEN THEY ARE GREATER THAN WHAT IS CALUCLATED (NFPA 101, 7.3.1.3).

EXIT CAPACITY SUMMARY TABLE - SECOND FLOOR

EXIT #	DOOR CLEAR WIDTH (INCHES)	DOOR FACTOR	DOOR CAPACITY (PERSONS)	STAIR CLEAR WIDTH (INCHES)	STAIR FACTOR	STAIR CAPACITY (PERSONS)	LIMITING CAPACITY (PERSONS)	ACTUAL USE (PERSONS)
STAIR 1	33	0.2	165	56	0.3	186	165	105
STAIR 2	33	0.2	165	51	0.3	170	165	106
							330	211

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SECOND FLOOR LIFE SAFETY PLAN

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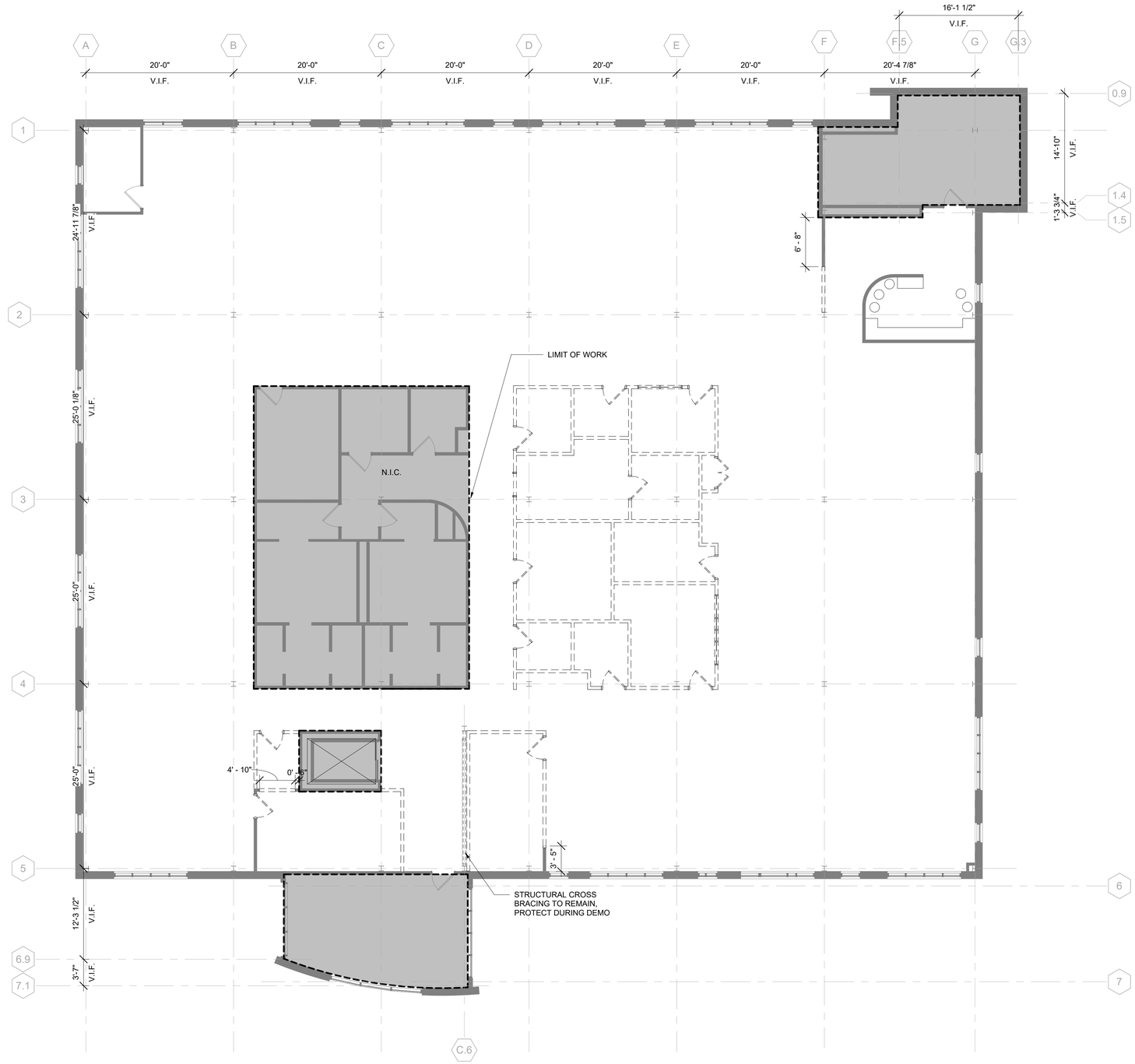
GENERAL DEMOLITION PLAN NOTES

1. ALL DIMENSIONS AND CONFIGURATIONS OF EXISTING ELEMENTS SHALL BE VERIFIED IN FIELD.
2. ALL WALLS, FLOORS, WINDOWS, DOORS, STAIRS, FIXTURES, AND FINISHES INDICATED TO REMAIN SHALL BE FULLY-PROTECTED FROM DEMOLITIONS AND SUBSEQUENT CONSTRUCTION. DEMOLITION PLANS INDICATE EXTENT OF FLOOR FINISH DEMOLITION AND/OR SUBSTRATE REMOVAL. REFER TO STRUCTURAL REPORT FOR SELECTIVE DEMOLITION OR MODIFICATIONS OF EXISTING FRAMING. NOTIFY ARCHITECT IF ADDITIONAL CUTTING AND PATCHING IS REQUIRED TO ACCESS ITEMS INDICATED FOR DEMOLITION OF INSTALLATION OF SYSTEMS.
3. REMOVE ALL FLOOR, WALL, AND CEILING FINISHES, AS WELL AS, DEVICES AND FIXTURES WITHIN THE SCOPE OF WORK. REVIEW WITH OWNER ANY FIXTURES OR DEVICES INTENDED FOR REUSE.
4. REFER TO MEP/FP AND STRUCTURAL DRAWINGS FOR EXTENT OF RELATED DEMOLITION.
5. REFER TO DEMOLITION ELEVATIONS FOR SCOPE OF WORK AT THE BUILDING ENVELOPE.
6. COORDINATE WITH OWNER FOR AV/IT, DISPLAYS, SIGNAGE, DOOR HARDWARE, AND FF&E ITEMS TO BE REINSTALLED OR TURNED OVER TO OWNER.
7. REMOVE ALL BUILT-IN CABINETRY WITHIN SCOPE OF WORK.

DEMO LEGEND

- EXISTING WALL TO REMAIN
- EXISTING COLUMN TO REMAIN
- EXISTING DOOR TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING CARPET TO BE DEMOLISHED
- EXISTING RESILIENT FLOORING TO BE DEMOLISHED
- AREA NOT IN CONTRACT



1 LEVEL 2 DEMO FLOOR PLAN
Scale: 1/8" = 1'-0"

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4/10/2024

ISSUES/REVISIONS

SHEET NAME
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GENERAL DEMOLITION PLAN NOTES

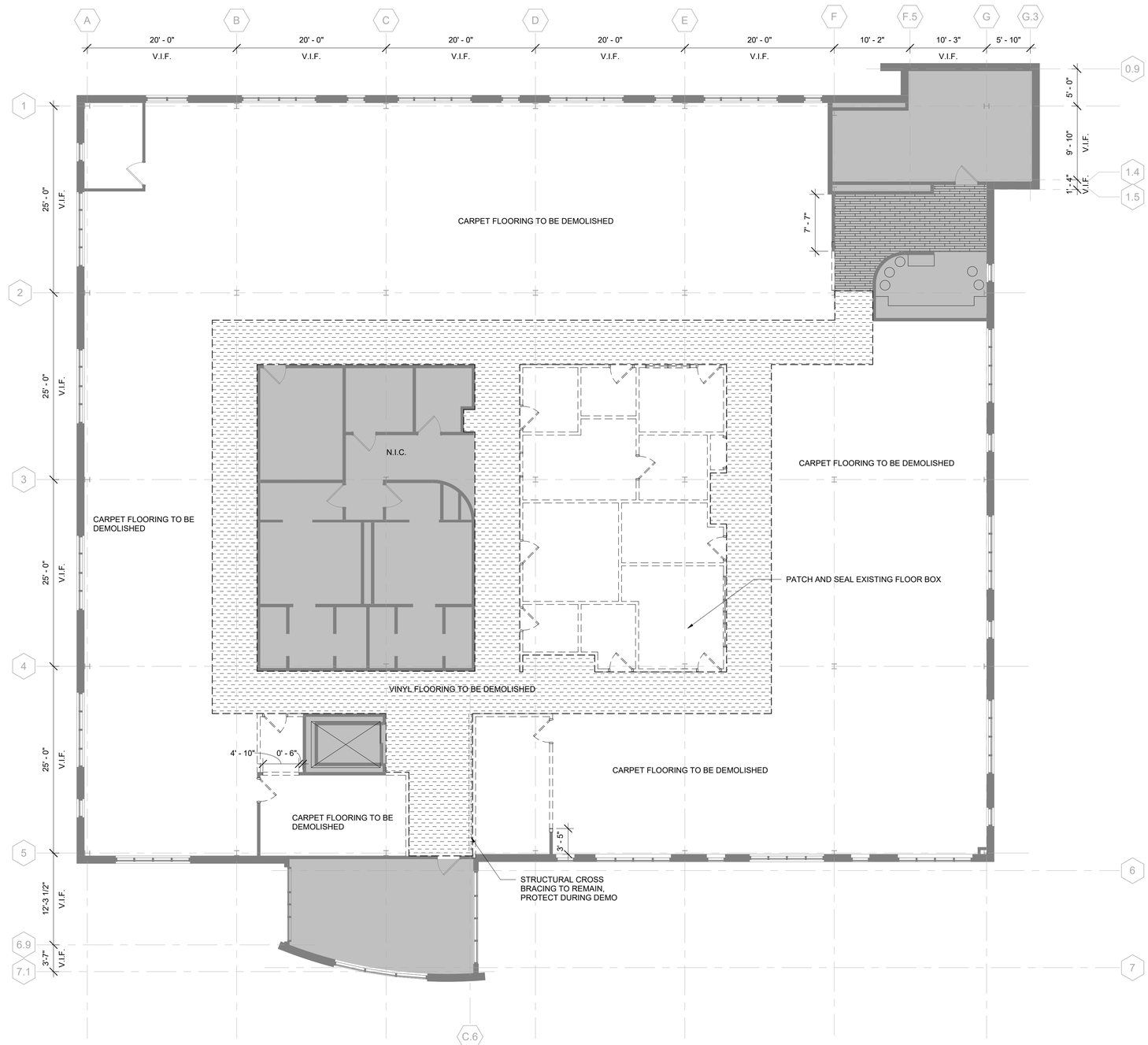
1. ALL DIMENSIONS AND CONFIGURATIONS OF EXISTING ELEMENTS SHALL BE VERIFIED IN FIELD.
2. ALL WALLS, FLOORS, WINDOWS, DOORS, STAIRS, FIXTURES, AND FINISHES INDICATED TO REMAIN SHALL BE FULLY-PROTECTED FROM DEMOLITIONS AND SUBSEQUENT CONSTRUCTION. DEMOLITION PLANS INDICATE EXTENT OF FLOOR FINISH DEMOLITION AND/OR SUBSTRATE REMOVAL. REFER TO STRUCTURAL REPORT FOR SELECTIVE DEMOLITION OR MODIFICATIONS OF EXISTING FRAMING. NOTIFY ARCHITECT IF ADDITIONAL CUTTING AND PATCHING IS REQUIRED TO ACCESS ITEMS INDICATED FOR DEMOLITION OF INSTALLATION OF SYSTEMS.
3. REMOVE ALL FLOOR, WALL, AND CEILING FINISHES, AS WELL AS, DEVICES AND FIXTURES WITHIN THE SCOPE OF WORK. REVIEW WITH OWNER ANY FIXTURES OR DEVICES INTENDED FOR REUSE.
4. REFER TO MEP/FP AND STRUCTURAL DRAWINGS FOR EXTENT OF RELATED DEMOLITION.
5. REFER TO DEMOLITION ELEVATIONS FOR SCOPE OF WORK AT THE BUILDING ENVELOPE.
6. COORDINATE WITH OWNER FOR AV/IT, DISPLAYS, SIGNAGE, DOOR HARDWARE, AND FF&E ITEMS TO BE REINSTALLED OR TURNED OVER TO OWNER.
7. REMOVE ALL BUILT-IN CABINETRY WITHIN SCOPE OF WORK.
8. SALVAGE AND HAND OVER ALL FURNITURE TO OWNER

DEMO LEGEND

- EXISTING WALL TO REMAIN
- EXISTING COLUMN TO REMAIN
- EXISTING DOOR TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING DOOR TO BE DEMOLISHED
- RESILIENT FLOORING TO BE SALVAGED
- RESILIENT FLOORING TO BE REMAIN AND BE PROTECTED IN PLACE

DEDUCT ALTERNATE:

D1: PROTECT AND SALVAGE EXISTING RESILIENT VINYL PLANK, DECO WOOD FLOORING AND SALVAGE EXISTING RESILIENT VINYL PLANK DECO WOOD FLOORING FOR REINSTALLATION. REFER TO A1001



1 LEVEL 2 DEMO FLOOR PLAN
Scale: 1/8" = 1'-0"

CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

ARCHITECT

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Boston, Massachusetts 02116-3866
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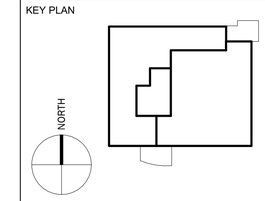
REGISTRATION

KEY PLAN



PROJECT STATUS
Construction Documents
5/31/2024
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ISSUES/REVISIONS

SHEET NAME
SECOND FLOOR DEMOLITION PLAN

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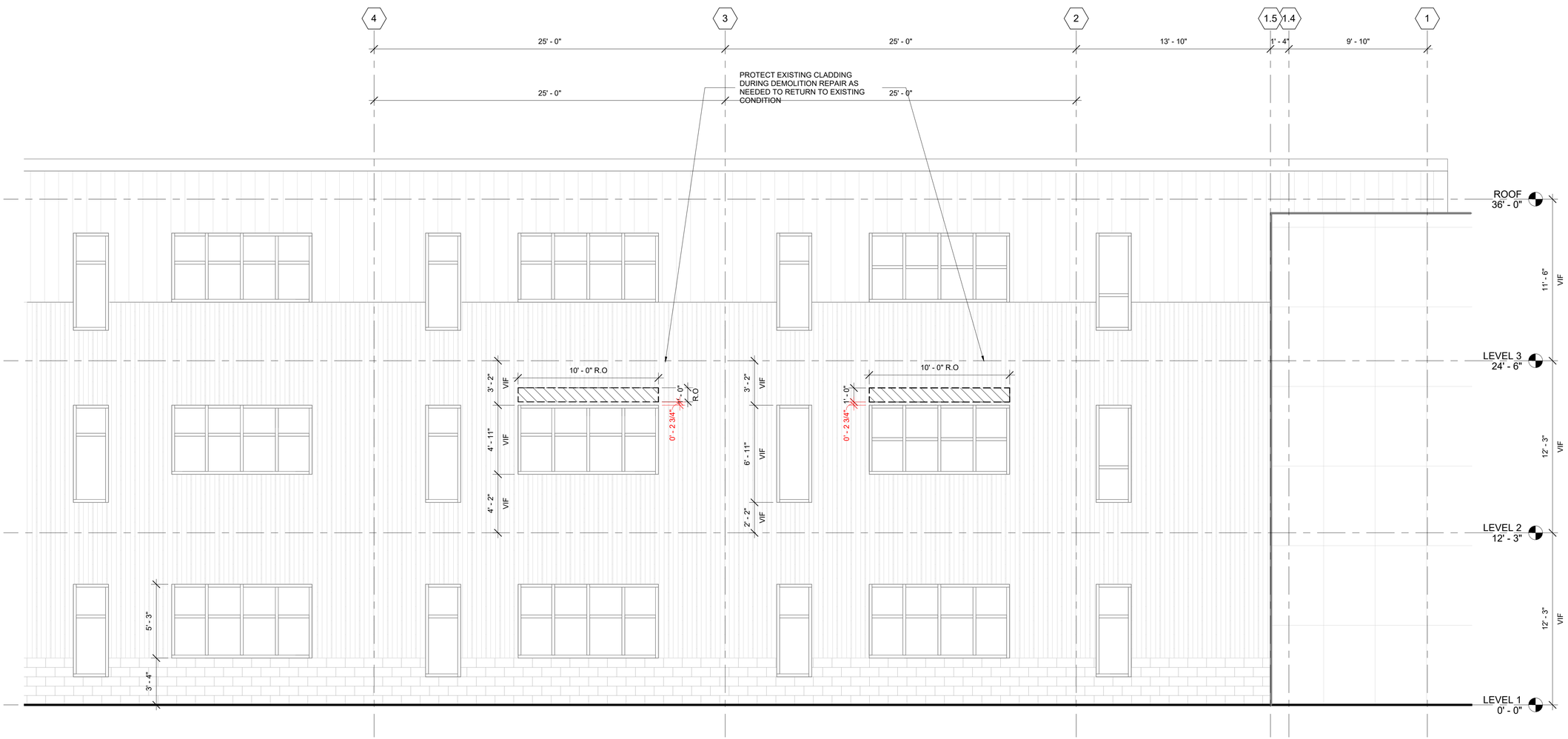
GENERAL FLOOR PLAN NOTES

1. EVERY EFFORT SHOULD BE MADE TO PROTECT THE EXISTING EXTERIOR WALL SCHEDULED TO REMAIN. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING MATERIALS DURING DEMOLLITON OR CONSTRUCTION.
2. REFER TO STRUCTURAL DRAWINGS FOR ASSOCIATED DEMOLITION AT EXTERIOR WALL

DEMOLISH EXISTING EXTERIOR WALL



1 EAST - DEMOLITION ELEVATION
Scale: 1/4" = 1'-0"

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CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

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ARCHITECT

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KEY PLAN

PLAN NORTH
TRUE NORTH

PROJECT STATUS
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5/31/2024
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ISSUES/REVISIONS

SHEET NAME
DEMOLITION - EAST ELEVATION

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DRAWN: Author	DATE: 10/25/09
CHECKED: Checker	SCALE: As indicated

DRAWING NO.:

D201

GENERAL DEMOLITION REFLECTED CEILING PLAN NOTES

1. PROTECT ALL EXISTING FINISHES AND MATERIALS TO REMAIN.
2. PROTECT FLOOR, SUBSTRATE AND STRUCTURE EXCEPT WHERE NOTED TO BE DEMOLISHED OR REMOVED. DEMOLITION PLANS INDICATE EXTENT OF FLOOR FINISH DEMOLITION AND/OR SUBSTRATE REMOVAL. REFER TO STRUCTURAL DRAWINGS FOR SELECTIVE DEMOLITION OR MODIFICATIONS OF EXISTING FRAMING. NOTIFY ARCHITECT IF ADDITIONAL CUTTING AND PATCHING IS REQUIRED TO ACCESS ITEMS INDICATED FOR DEMOLITION OR INSTALLATION OF NEW SYSTEMS.
3. REFER TO MEP/FP DRAWINGS FOR EXTENT AND LOCATION OF EXISTING SERVICES DEMOLITION. CUT AND PATCH FINISHES AS REQUIRED FOR ACCESS.
4. ALL WINDOWS SHALL REMAIN AND BE PROTECTED, U.N.O.
5. COORDINATE WITH OWNER FOR AV/IT, DISPLAYS, PLAQUES, AND OTHER FF&E TO BE SALVAGES AND REINSTALLED OR TURNED OVER TO THE OWNER.
6. CONTRACTOR SHALL MAINTAIN FIRE PROTECTION, SMOKE DETECTION, AND LIFE SAFETY SYSTEMS OF OCCUPIED AREAS DURING RENOVATION. CONTRACTOR SHALL PROVIDE CODE COMPLIANT TEMPORARY PARTITIONS OR SEPARATION BETWEEN AREAS OF CONSTRUCTION AND OCCUPIED AREAS. EGRESS ROUTES OF OCCUPIED SPACES SHALL BE MAINTAINED AND WORK SEQUENCED AS REQUIRED ACCORDINGLY TO ACCOMMODATE. COORDINATE WORK AND LIFE SAFETY PLAN WITH OWNER.

DEMO RCP LEGEND

CEILING TO BE DEMOLISHED

AREA NOT IN CONTRACT

1 LEVEL 2 DEMO REFLECTED CEILING PLAN
Scale: 1/8" = 1'-0"

CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

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KEY PLAN

NORTH

PROJECT STATUS
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SHEET NAME
SECOND FLOOR REFLECTED CEILING DEMOLITION PLAN

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CHECKED: JP	SCALE: 1/8" = 1'-0"

DRAWING NO.:

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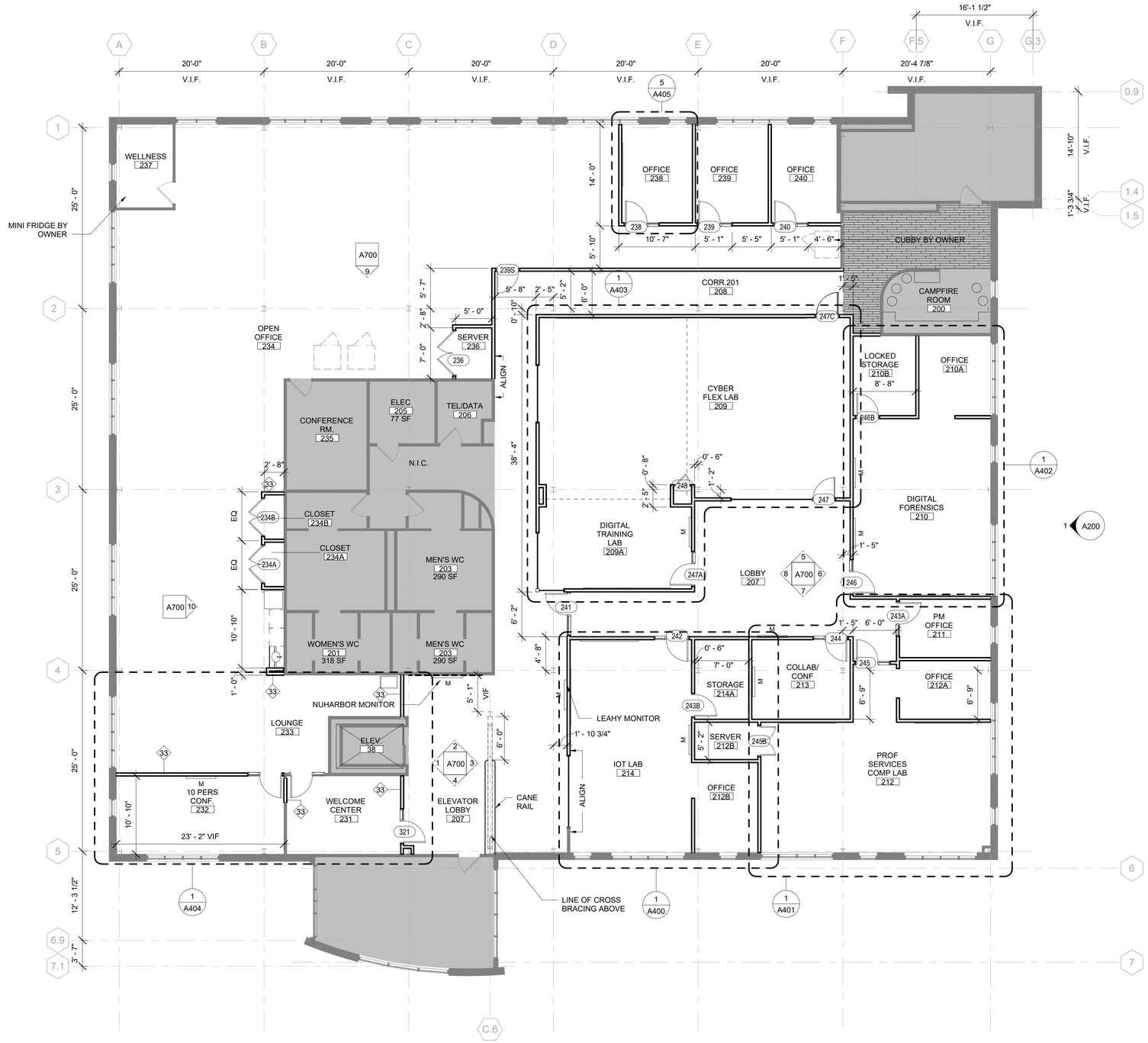
GENERAL FLOOR PLAN NOTES

1. GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING ELEMENTS IN THE FIELD.
2. PROTECT THE EXISTING BUILDING ELEMENTS SCHEDULED TO REMAIN. THE CONSTRUCTION MANAGER IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING MATERIALS DURING DEMOLITION OR CONSTRUCTION TO MATCH ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
3. FLOOR ELEVATIONS ARE TO TOP OF FINISH FLOOR.
4. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, U.N.O.
5. SEE A800 FOR PARTITION TYPES AND TYPICAL DETAILS.
6. SEE A800 SERIES FOR DOOR SCHEDULE, INTERIOR GLAZING TYPES, AND DETAILS. DOORS SHALL BE INSTALLED 4" FROM CORNER OF PARTITION, U.N.O.
7. ALL INTERIOR PARTITIONS TO INCLUDE ACOUSTIC INSULATION. FOR CLARITY, ACOUSTICAL INSULATION IS NOT SHOWN IN FLOOR PLANS.
8. FURNITURE N.I.C. REFERENCE A1001 FOR FURNITURE LAYOUT.



1 LEVEL 2 FLOOR PLAN
Scale: 1/8" = 1'-0"

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CHAMPLAIN COLLEGE

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PROJECT STATUS
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5/31/2024
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SHEET NAME
SECOND FLOOR PLAN

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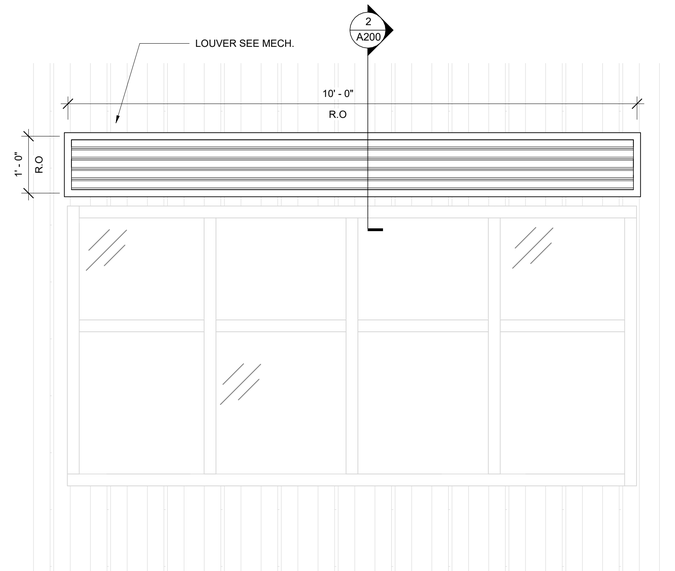
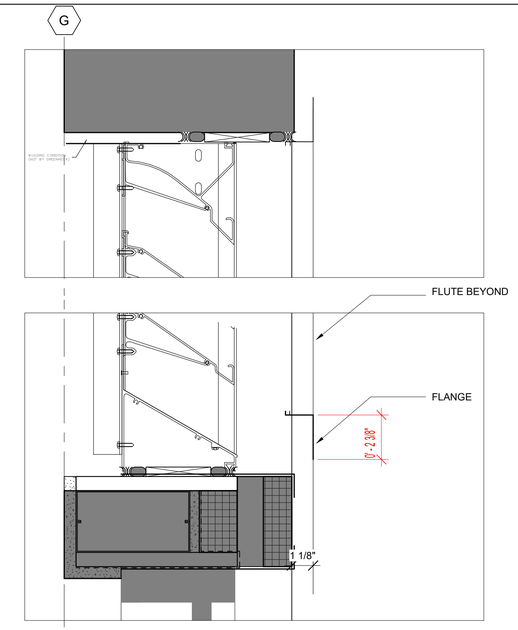
CHECKED: JP	SCALE: 1/8" = 1'-0"

DRAWING NO.:

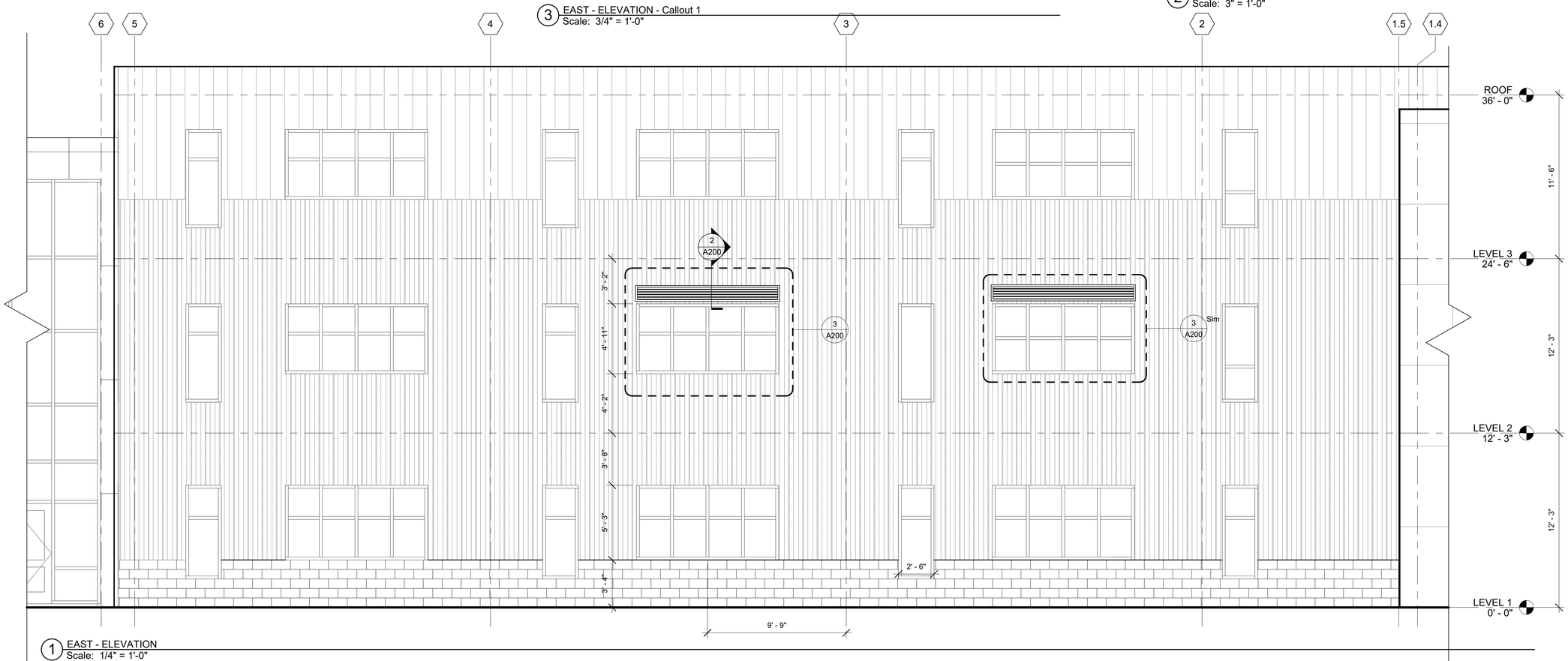
A100



3 EAST - ELEVATION - Callout 1
Scale: 3/4" = 1'-0"



2 SECTION THROUGH LOUVER
Scale: 3" = 1'-0"



1 EAST - ELEVATION
Scale: 1/4" = 1'-0"

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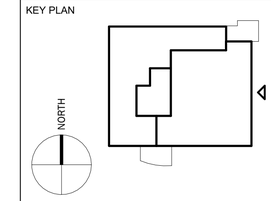

PROJECT STATUS
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ISSUES/REVISIONS

SHEET NAME
EAST ELEVATION

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GENERAL ENLARGED DRAWING NOTES

1. FOR ALL ROOMS PROVIDE WALL BASE AS SCHEDULED.
2. SEE FINISH SCHEDULE FOR PAINT.
3. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, DEVICES, AND ACCESSORIES AS REQUIRED.
4. EVERY CLASSROOM TO BE PROVIDED WITH A CEILING MOUNTED PROJECTOR.
5. CYBER RANGE TO HAVE (3) 90" DIAG. WALL MOUNTED DISPLAYS.
6. PROVIDE BLOCKING FOR DOOR BUMPERS.
7. FURNITURE N.I.C.
8. SEE ELEC. FOR RECEPTACLE PLACEMENT

CEILING TYPE

- GWB-1
- ACT-1

RCP SYMBOLS

- PROJECTOR
- SUPPLY AIR
- RETURN AIR

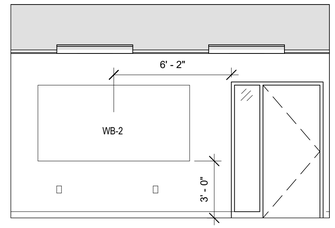
MARKER BOARDS

WB-1 = 4'x6'

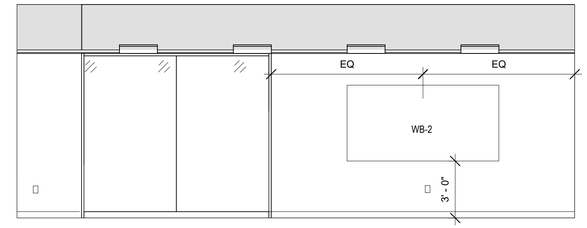
WB-2 = 4'x8'

LIGHTING SYMBOLS

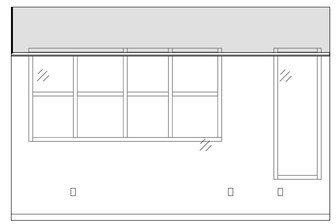
- 2X4 FIXTURE
- LINEAR LIGHT
- PENDANT LIGHT
- RECESSED CAN LIGHT



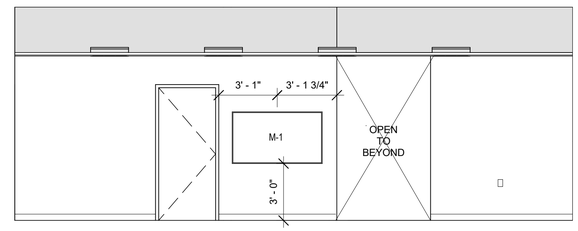
6 IOT LAB - NORTH ELEVATION
Scale: 1/4" = 1'-0"



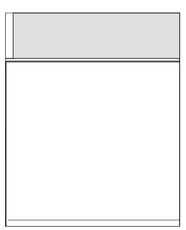
9 IOT LAB - WEST ELEVATION
Scale: 1/4" = 1'-0"



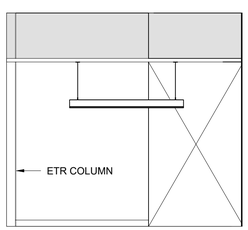
8 IOT LAB - SOUTH ELEVATION
Scale: 1/4" = 1'-0"



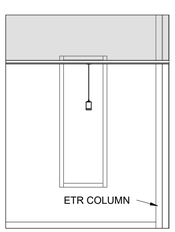
7 IOT LAB - EAST ELEVATION
Scale: 1/4" = 1'-0"



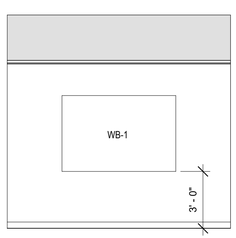
5 OFFICE - NORTH
Scale: 1/4" = 1'-0"



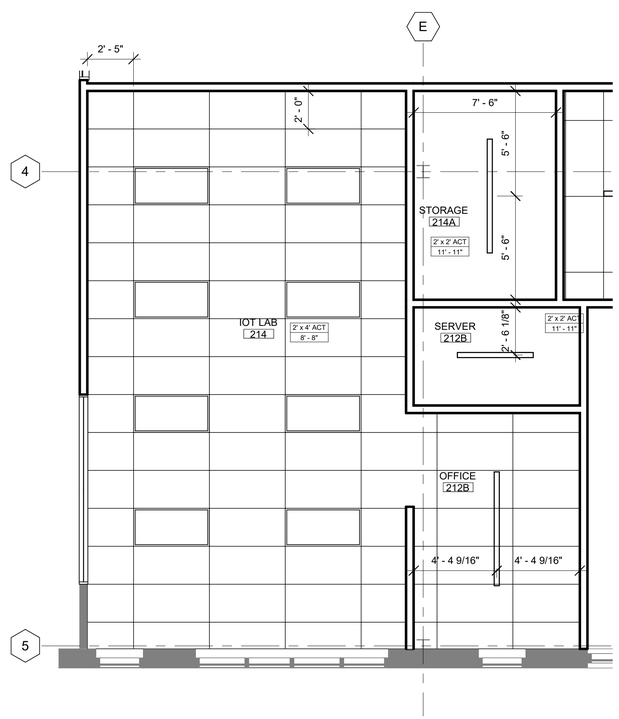
4 OFFICE - WEST
Scale: 1/4" = 1'-0"



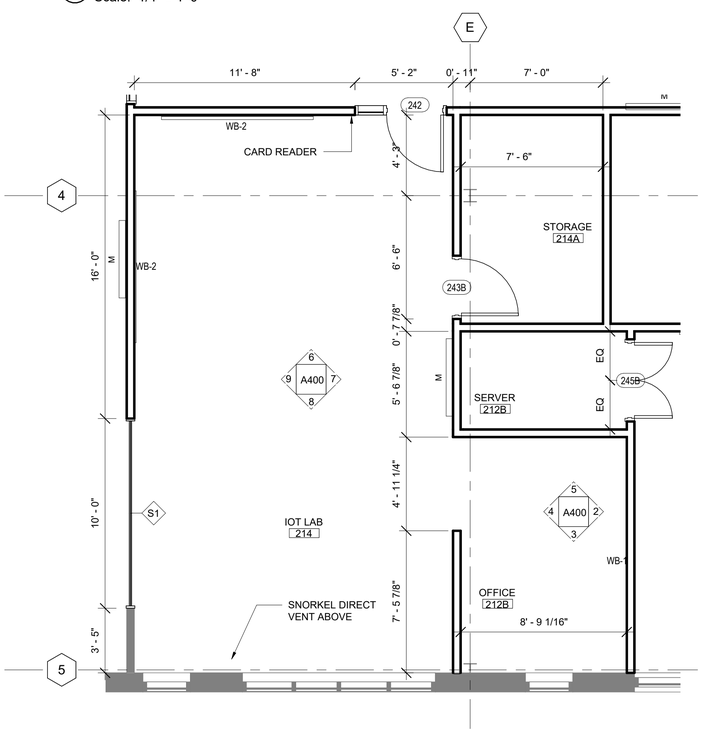
3 OFFICE - SOUTH
Scale: 1/4" = 1'-0"



2 OFFICE - EAST
Scale: 1/4" = 1'-0"



10 IOT LAB, OFFICE, STORAGE, AND SERVER ENLARGED REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"



1 IOT LAB, OFFICE, STORAGE, AND SERVER ENLARGED PLAN
Scale: 1/4" = 1'-0"

CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

ARCHITECT

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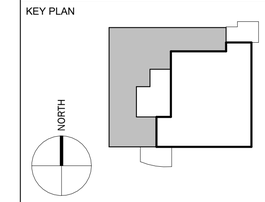

PROJECT STATUS
Construction Documents
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SHEET NAME

LEAHY - ENLARGED FLOOR PLANS AND ELEVATIONS

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GENERAL ENLARGED DRAWING NOTES

1. FOR ALL ROOMS PROVIDE WALL BASE AS SCHEDULED.
2. SEE FINISH SCHEDULE FOR PAINT.
3. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, DEVICES, AND ACCESSORIES AS REQUIRED.
4. EVERY CLASSROOM TO BE PROVIDED WITH A CEILING MOUNTED PROJECTOR.
5. CYBER RANGE TO HAVE (3) 90" DIAG. WALL MOUNTED DISPLAYS.
6. PROVIDE BLOCKING FOR DOOR BUMPERS.
7. FURNITURE N.I.C.
8. SEE ELEC. FOR RECEPTACLE PLACEMENT

CEILING TYPE

- GWB-1
- ACT-1

RCP SYMBOLS

- PROJECTOR
- SUPPLY AIR
- RETURN AIR

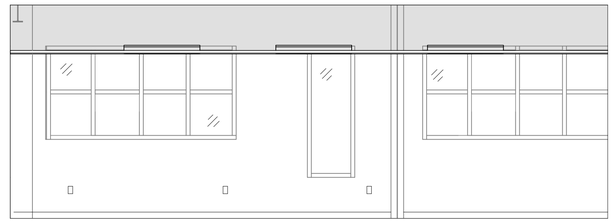
MARKER BOARDS

WB-1 = 4'x6'

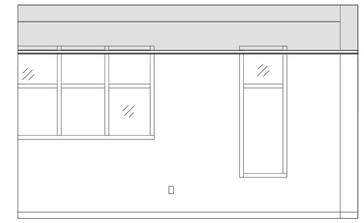
WB-2 = 4'x8'

LIGHTING SYMBOLS

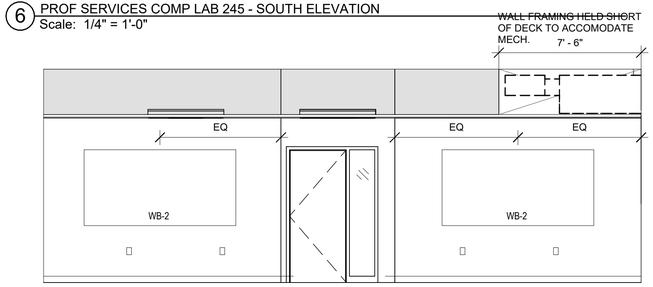
- 2X4 FIXTURE
- LINEAR LIGHT
- PENDANT LIGHT
- RECESSED CAN LIGHT



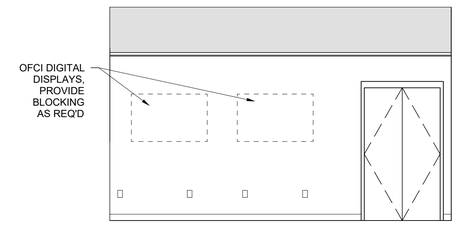
6 PROF SERVICES COMP LAB 245 - SOUTH ELEVATION
Scale: 1/4" = 1'-0"



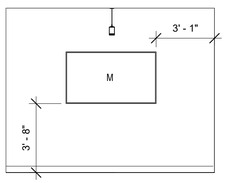
5 PROF SERVICES COMP LAB 245 - EAST ELEVATION
Scale: 1/4" = 1'-0"



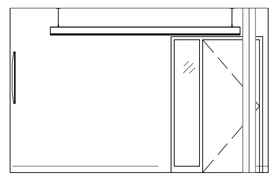
4 PROF SERVICES COMP LAB 245 - NORTH ELEVATION
Scale: 1/4" = 1'-0"



3 PROF SERVICES COMP LAB 245 - WEST ELEVATION
Scale: 1/4" = 1'-0"

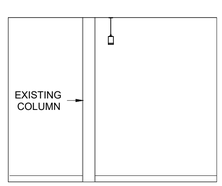


9 COLLAB./CONF. - WEST
Scale: 1/4" = 1'-0"

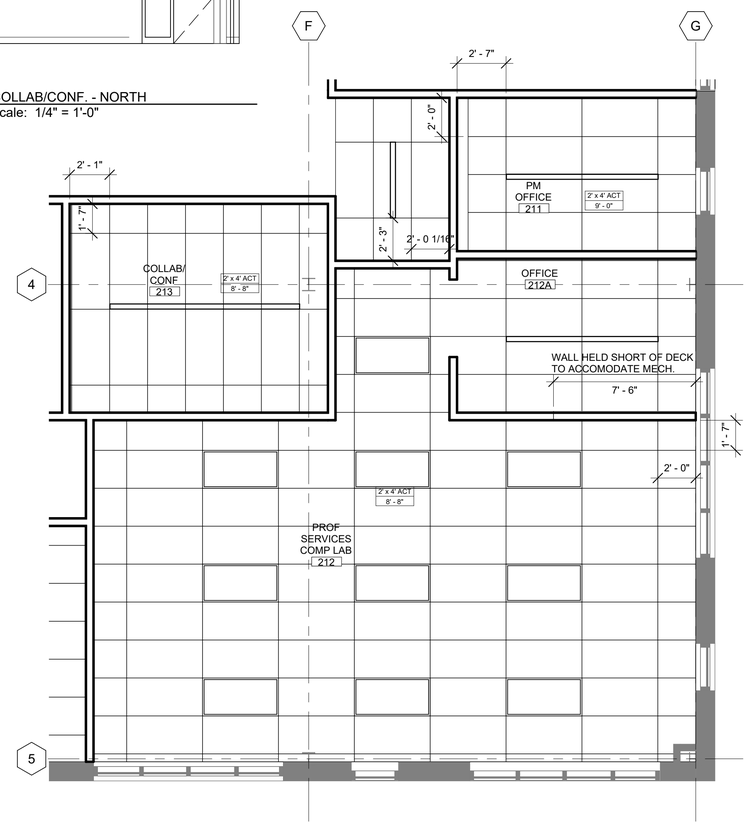


10 COLLAB/CONF. - NORTH
Scale: 1/4" = 1'-0"

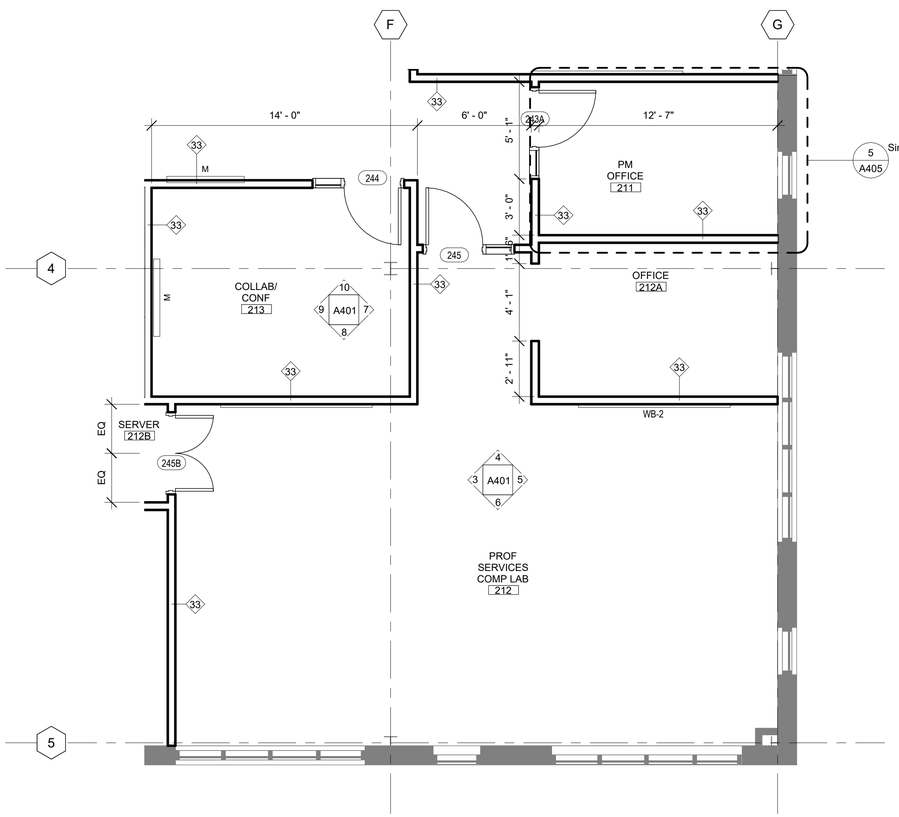
8 COLLAB/CONF. - SOUTH
Scale: 1/4" = 1'-0"



7 COLLAB/CONF. - EAST
Scale: 1/4" = 1'-0"



2 ROOMS 244, 245, 245A, & 245B ENLARGED REFLECTED CEILING PLANS
Scale: 1/4" = 1'-0"



1 ROOMS 244, 245, 245A, & 245B ENLARGED PLANS
Scale: 1/4" = 1'-0"

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CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

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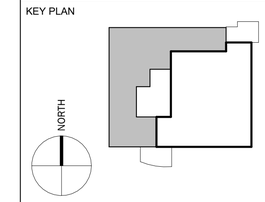
CONSULTANT

REGISTRATION

KEY PLAN



PROJECT STATUS
Construction Documents
5/31/2024
DRAFT

ISSUES/REVISIONS

SHEET NAME

LEAHY- ENLARGED FLOOR PLANS AND ELEVATIONS

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: CT	DATE: 2/9/2024
CHECKED: JP	SCALE: As indicated

DRAWING NO.:

A401

GENERAL ENLARGED DRAWING NOTES

1. FOR ALL ROOMS PROVIDE WALL BASE AS SCHEDULED.
2. SEE FINISH SCHEDULE FOR PAINT.
3. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, DEVICES, AND ACCESSORIES AS REQUIRED.
4. EVERY CLASSROOM TO BE PROVIDED WITH A CEILING MOUNTED PROJECTOR.
5. CYBER RANGE TO HAVE (3) 90" DIAG. WALL MOUNTED DISPLAYS.
6. PROVIDE BLOCKING FOR DOOR BUMPERS.
7. FURNITURE N.I.C.
8. SEE ELEC. FOR RECEPTACLE PLACEMENT

CEILING TYPE

- GWB-1
- ACT-1

RCP SYMBOLS

- PROJECTOR
- SUPPLY AIR
- RETURN AIR

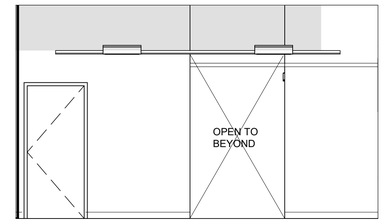
MARKER BOARDS

WB-1 = 4'x6'

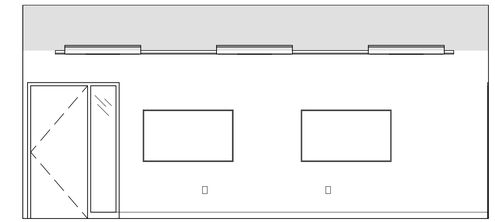
WB-2 = 4'x8'

LIGHTING SYMBOLS

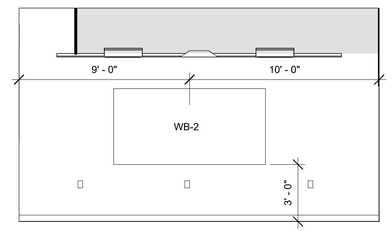
- 2X4 FIXTURE
- LINEAR LIGHT
- PENDANT LIGHT
- RECESSED CAN LIGHT



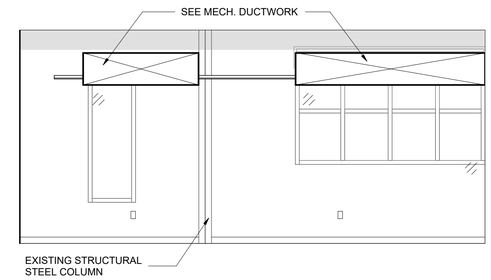
6 DIGITAL FORENSICS 246 - NORTH ELEVATION
Scale: 1/4" = 1'-0"



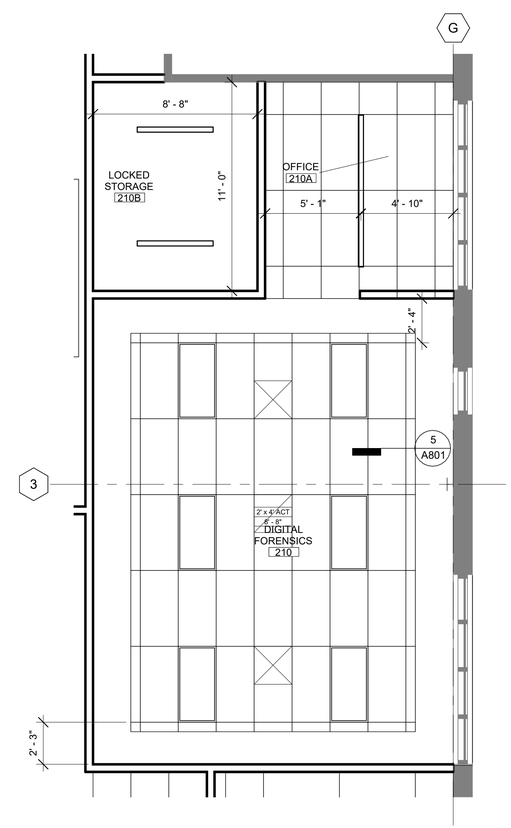
5 DIGITAL FORENSICS 246 - WEST ELEVATION
Scale: 1/4" = 1'-0"



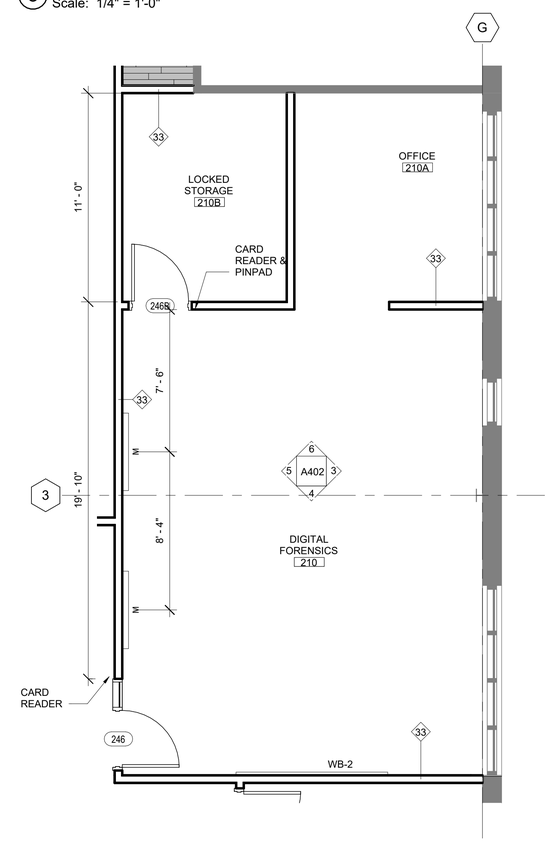
4 DIGITAL FORENSICS 246 - SOUTH ELEVATION
Scale: 1/4" = 1'-0"



3 DIGITAL FORENSICS 246 - EAST ELEVATION
Scale: 1/4" = 1'-0"



2 ROOMS 246, 246A, & 246B ENLARGED REFLECTED CEILING PLANS
Scale: 1/4" = 1'-0"



1 ROOMS 246, 246A, & 246B ENLARGED PLANS
Scale: 1/4" = 1'-0"

CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

ARCHITECT

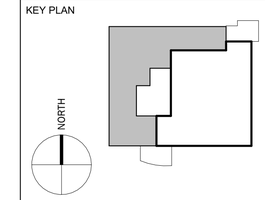
Goody Clancy

420 Boylston Street
Boston, Massachusetts 02116-3866
617.262.2760
www.goodyclancy.com

CONSULTANT

REGISTRATION

KEY PLAN



PROJECT STATUS
Construction Documents
5/31/2024

DRAFT

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SHEET NAME

LEAHY- ENLARGED FLOOR PLANS AND ELEVATIONS

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: CT	DATE: 2/9/2024
CHECKED: JP	SCALE: As indicated

DRAWING NO.:

A402

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GENERAL ENLARGED DRAWING NOTES

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- RETURN AIR

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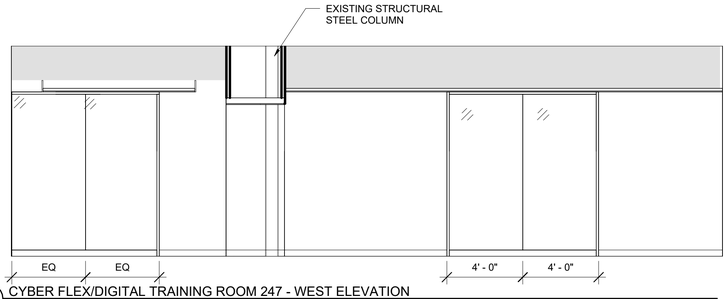
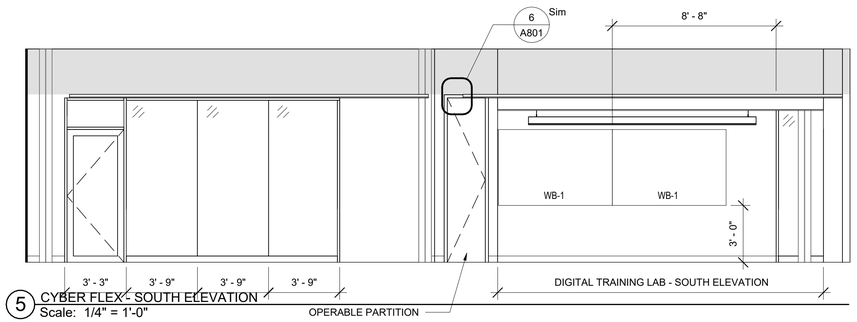
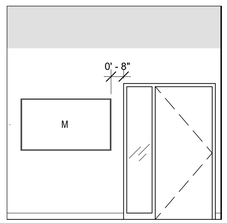
- 2X4 FIXTURE
- LINEAR LIGHT
- PENDANT LIGHT
- RECESSED CAN LIGHT



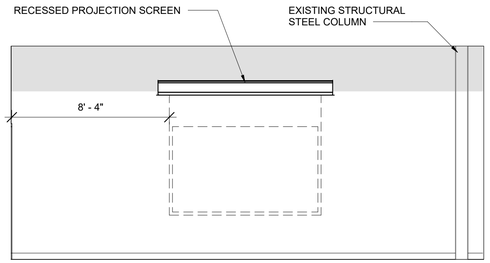
6 CYBER FLEX/DIGITAL TRAINING ROOM 247 - WEST ELEVATION
Scale: 1/4" = 1'-0"



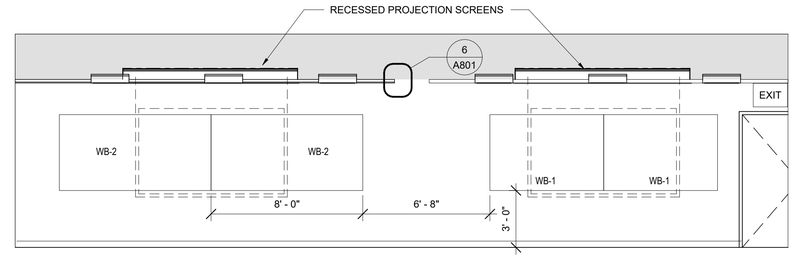
5 CYBER FLEX - SOUTH ELEVATION
Scale: 1/4" = 1'-0"



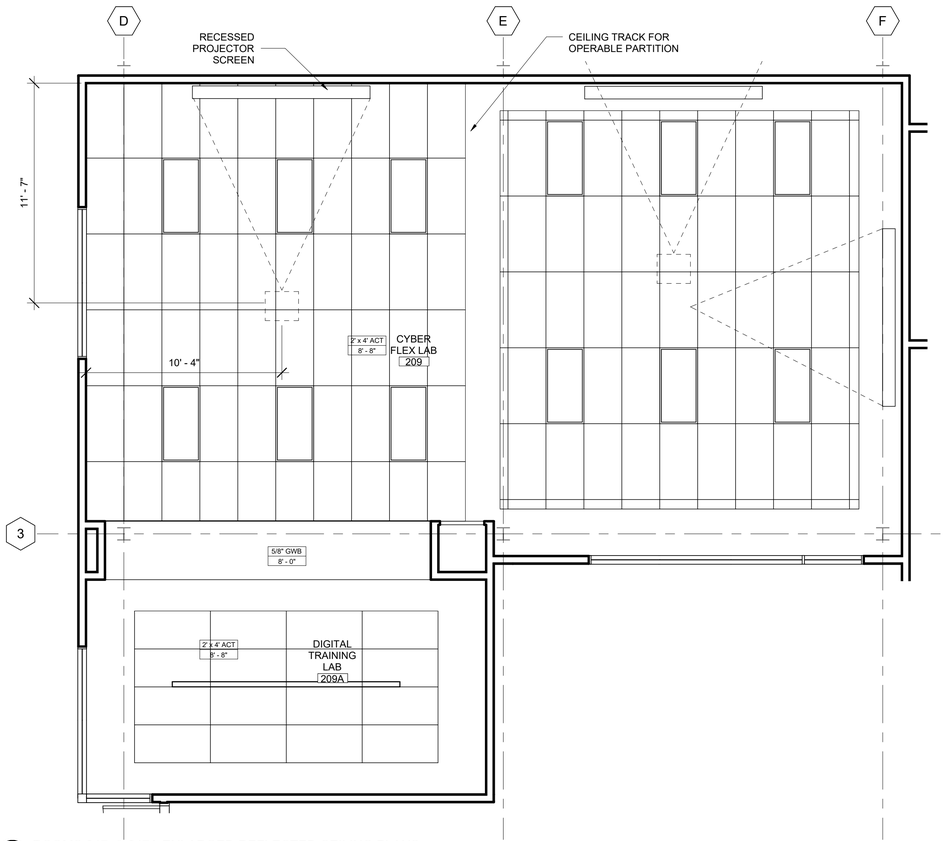
7 DIGITAL TRAINING ROOM 247A - EAST ELEVATION
Scale: 1/4" = 1'-0"



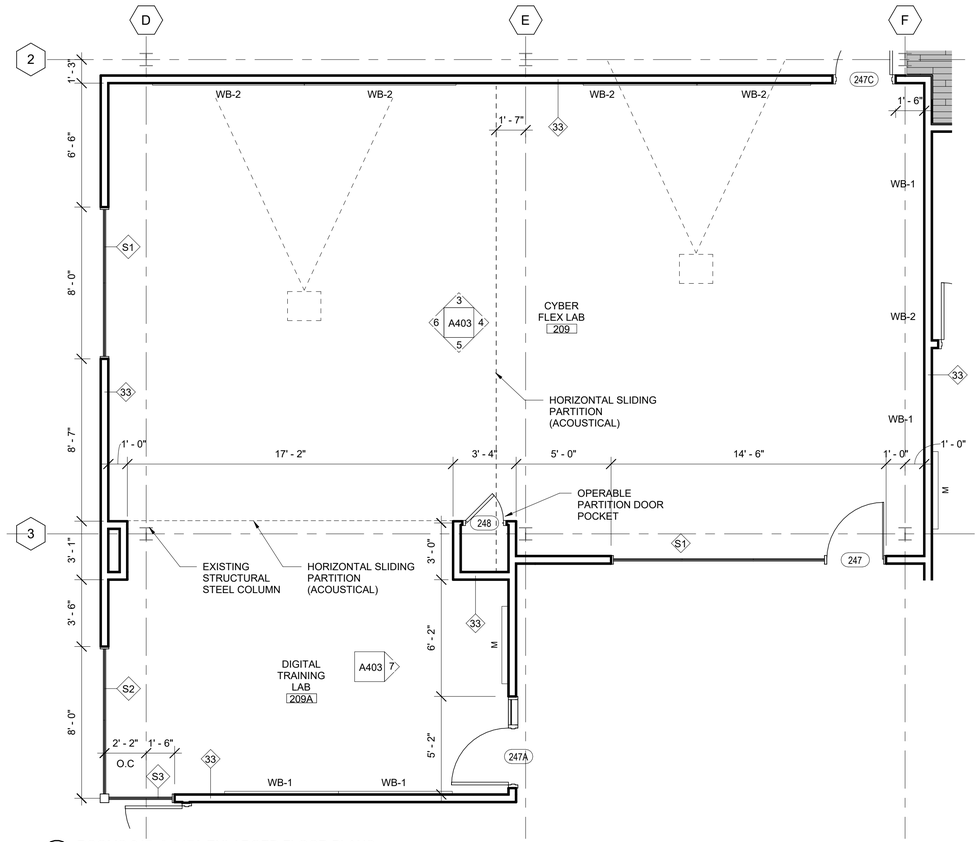
4 CYBER FLEX 247 - EAST ELEVATION
Scale: 1/4" = 1'-0"



3 CYBER FLEX 247 - NORTH ELEVATION
Scale: 1/4" = 1'-0"



2 ROOMS 247, & 247A ENLARGED REFLECTED CEILING PLANS
Scale: 1/4" = 1'-0"



1 ROOMS 247, & 247A ENLARGED FLOOR PLANS
Scale: 1/4" = 1'-0"

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CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

ARCHITECT

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Boston, Massachusetts 02116-3866
617.262.2760
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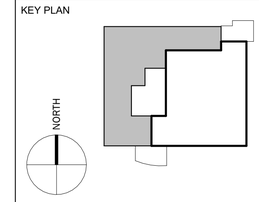
CONSULTANT

REGISTRATION

KEY PLAN



PROJECT STATUS
Construction Documents
5/31/2024
DRAFT

ISSUES/REVISIONS

SHEET NAME
LEAHY- ENLARGED FLOOR PLANS AND ELEVATIONS

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: CT	DATE: 2/9/2024
CHECKED: JP	SCALE: As indicated

DRAWING NO.:

A403

GENERAL ENLARGED DRAWING NOTES

1. FOR ALL ROOMS PROVIDE WALL BASE AS SCHEDULED.
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- ACT-1

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- RETURN AIR

MARKER BOARDS

WB-1 = 4'x6'

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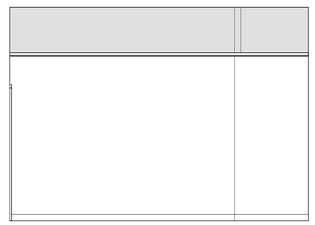
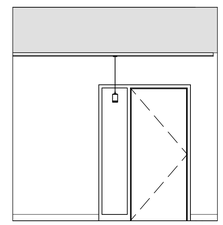
- 2X4 FIXTURE
- 2X2 FIXTURE
- PENDANT LIGHT
- RECESSED CAN LIGHT

GENERAL FURNITURE PLAN NOTES

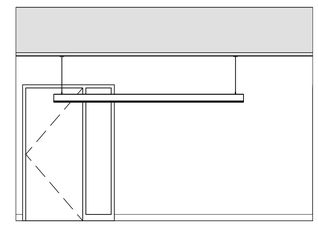
FURNITURE SHOWN IS FOR LAYOUT ONLY. (N.I.C.)



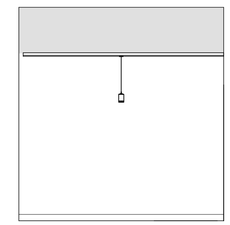
11 Elevation 3 - a
Scale: 1/4" = 1'-0"



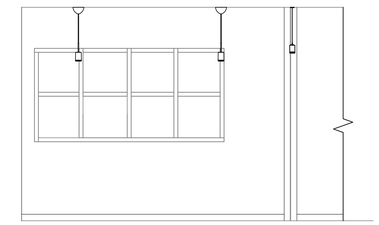
10 2 - d
Scale: 1/4" = 1'-0"



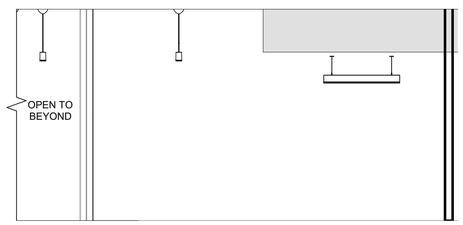
9 2 - c
Scale: 1/4" = 1'-0"



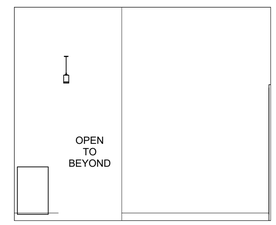
4 Elevation 1 - b
Scale: 1/4" = 1'-0"



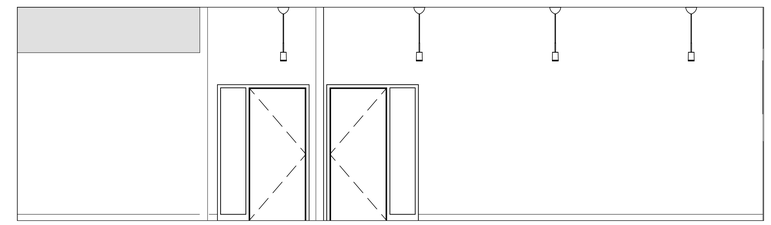
7 LOUNGE WEST
Scale: 1/4" = 1'-0"



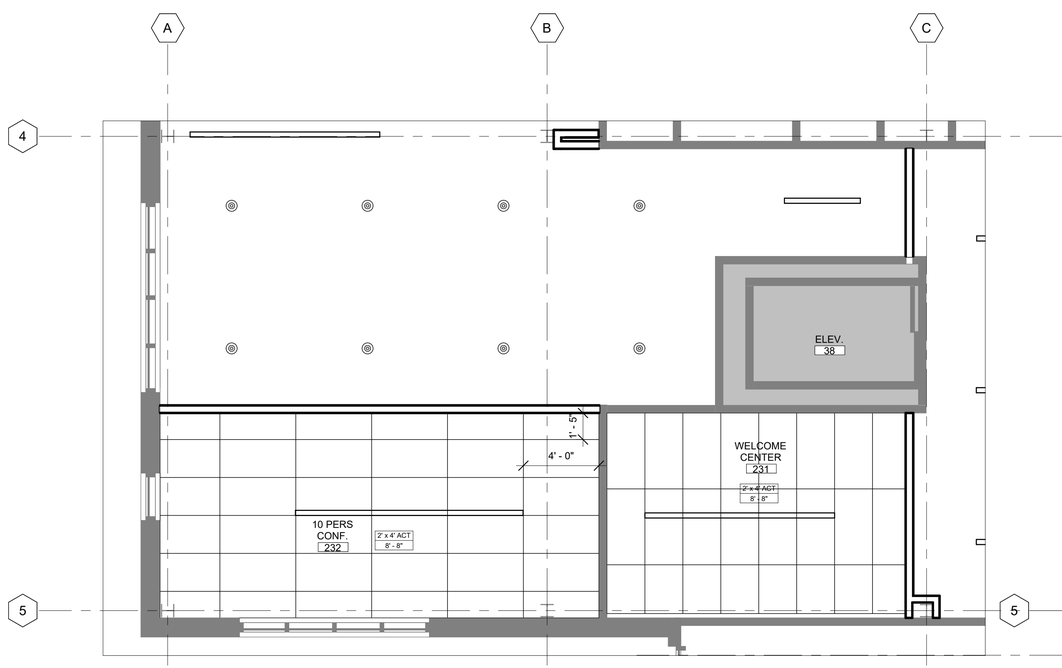
6 LOUNGE - NORTH
Scale: 1/4" = 1'-0"



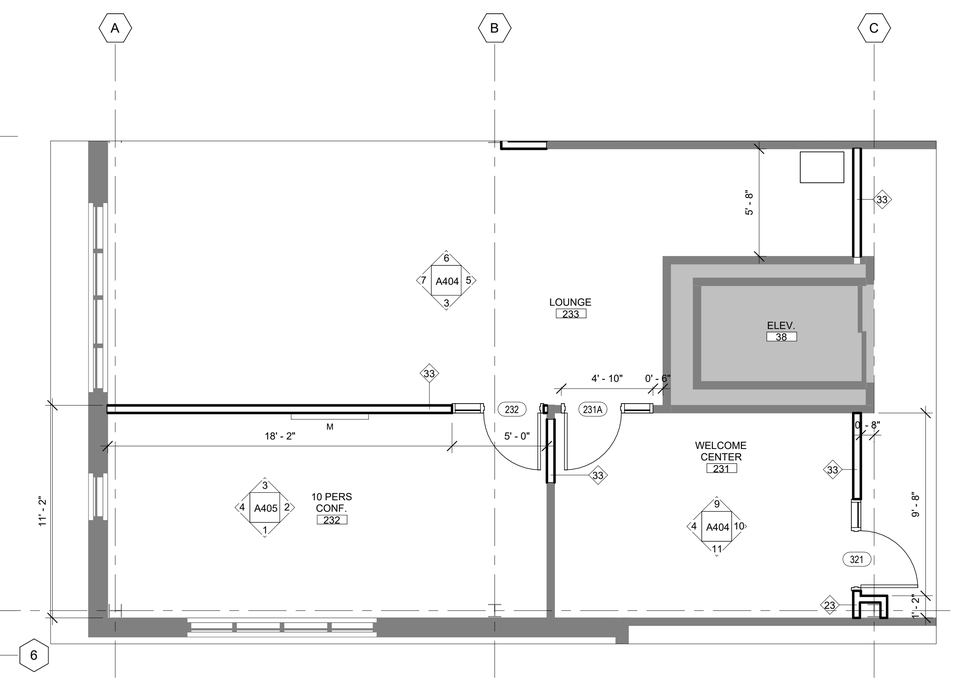
5 LOUNGE - EAST
Scale: 1/4" = 1'-0"



3 LOUNGE - SOUTH
Scale: 1/4" = 1'-0"



2 ROOMS 242, 243, 243A, & 243B ENLARGED REFLECTED CEILING PLANS1
Scale: 1/4" = 1'-0"



1 LEVEL 2 FLOOR PLAN - Callout 1
Scale: 1/4" = 1'-0"

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CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

ARCHITECT

Goody Clancy

420 Boylston Street
Boston, Massachusetts 02116-3866
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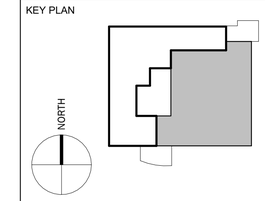
CONSULTANT

REGISTRATION

KEY PLAN



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5/31/2024
DRAFT

ISSUES/REVISIONS

SHEET NAME
NuHARBOR - ENLARGED FLOOR PLANS AND ELEVATIONS

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GOODY CLANCY PROJECT NUMBER: 23026

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DRAWING NO.:

A404

GENERAL ENLARGED DRAWING NOTES

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- ACT-1

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- RETURN AIR

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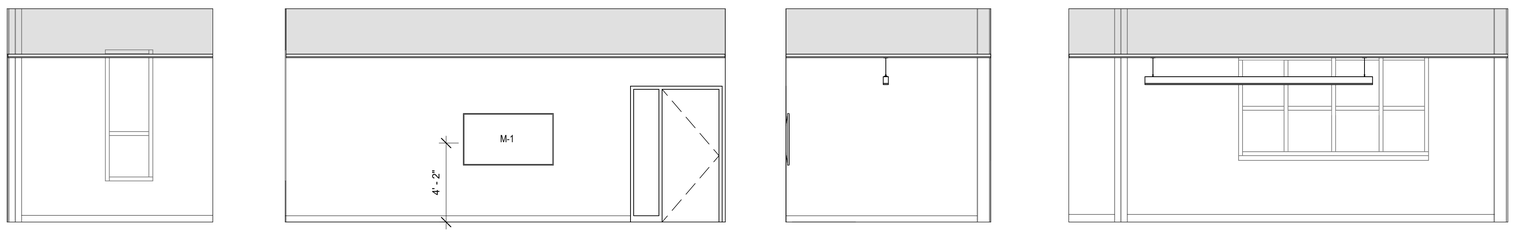
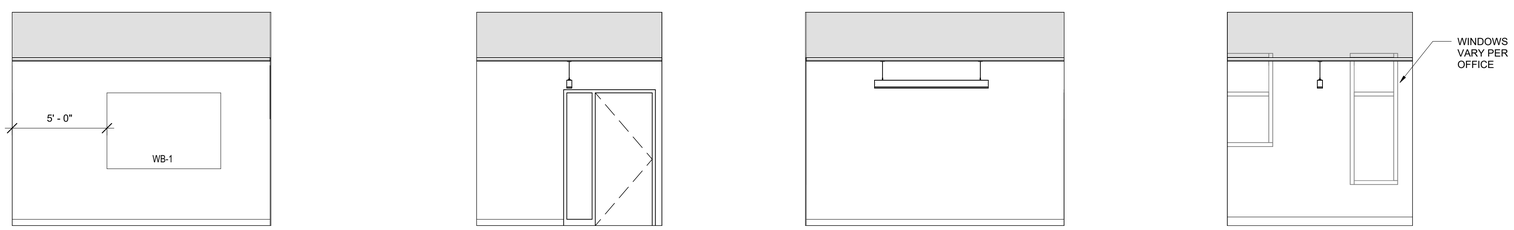


4 CONFERENCE - EAST WALL
Scale: 1/4" = 1'-0"

3 CONFERENCE - NORTH WALL
Scale: 1/4" = 1'-0"

2 CONFERENCE. EAST WALL
Scale: 1/4" = 1'-0"

1 CONFERENCE - SOUTH WALL
Scale: 1/4" = 1'-0"

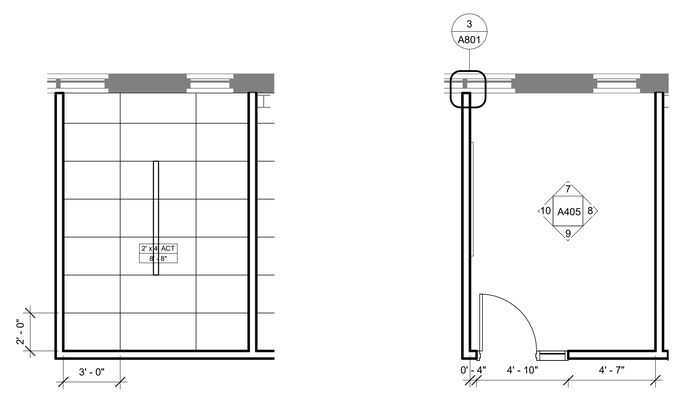


10 TYP. OFFICE WEST WALL
Scale: 1/4" = 1'-0"

9 TYP. SOUTH WALL
Scale: 1/4" = 1'-0"

8 TYP. EAST WALL
Scale: 1/4" = 1'-0"

7 TYP. NORTH WALL
Scale: 1/4" = 1'-0"



6 TYP. OFFICE RCP
Scale: 1/4" = 1'-0"

5 TYP. OFFICE ENLARGED PLAN
Scale: 1/4" = 1'-0"

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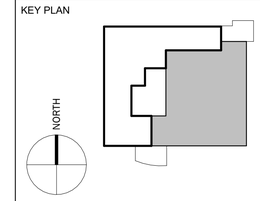

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ISSUES/REVISIONS

SHEET NAME
NuHARBOR - ENLARGED FLOOR PLANS AND ELEVATIONS

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DRAWING NO.:

A405

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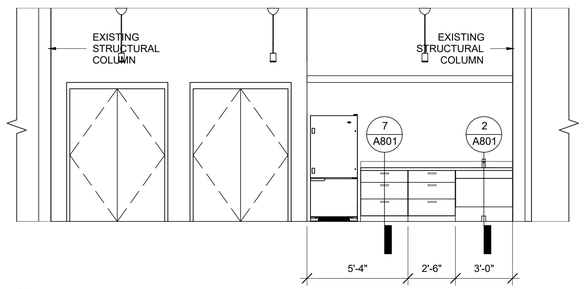
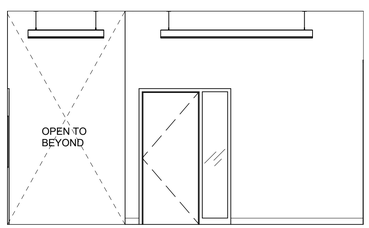
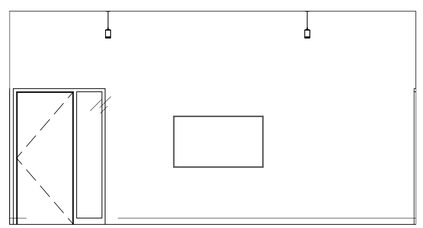


10 NUHARBOR STORAGE CLOSETS - EAST
Scale: 1/4" = 1'-0"

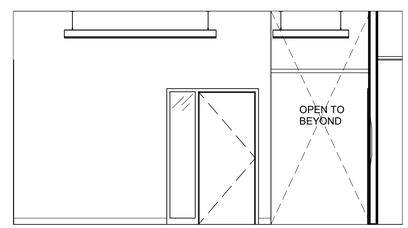
9 NUHARBOR - SERVER RM. - SOUTH
Scale: 1/4" = 1'-0"



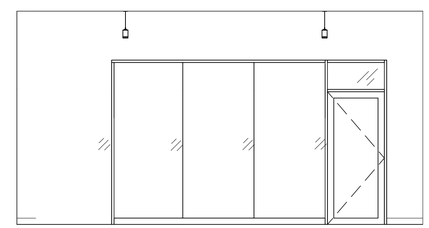
8 WAITING / LOBBY - WEST
Scale: 1/4" = 1'-0"



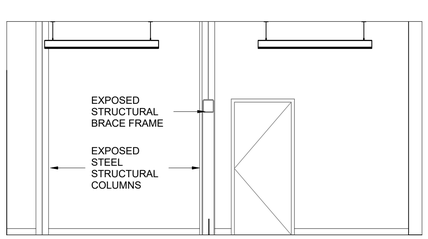
7 WAITING / LOBBY - SOUTH
Scale: 1/4" = 1'-0"



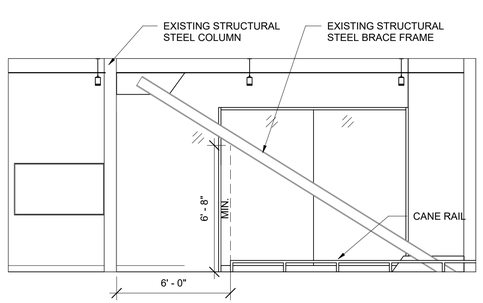
6 WAITING / LOBBY - EAST
Scale: 1/4" = 1'-0"



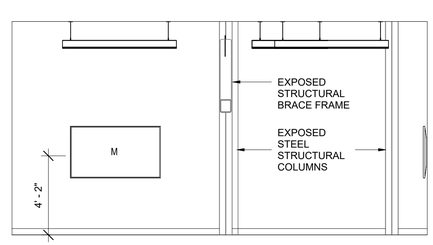
5 WAITING / LOBBY - NORTH
Scale: 1/4" = 1'-0"



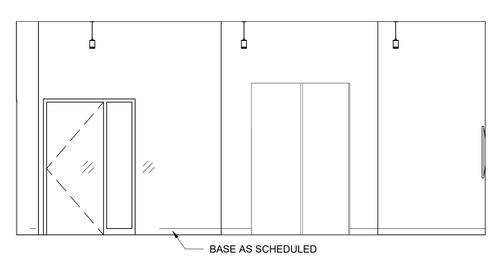
4 ELEVATOR LOBBY - SOUTH
Scale: 1/4" = 1'-0"



3 ELEVATOR LOBBY - EAST
Scale: 1/4" = 1'-0"



2 ELEVATOR LOBBY - NORTH
Scale: 1/4" = 1'-0"



1 ELEVATOR LOBBY - WEST
Scale: 1/4" = 1'-0"

CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

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5/31/2024
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ISSUES/REVISIONS

SHEET NAME
INTERIOR ELEVATIONS

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DRAWN: CT	DATE: 2/9/2024
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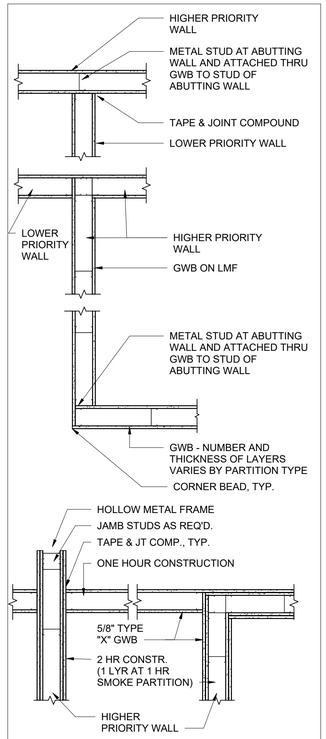


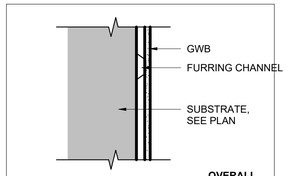
NOTE: MAINTAIN CONTINUITY OF ALL LAYERS OF HIGHER PRIORITY WALL AT INTERSECTION WITH LOWER PRIORITY WALL AS INDICATED. FOR WALL PRIORITIES REFERENCE PARTITION PRIORITY LEGEND.

PARTITION PRIORITY LEGEND

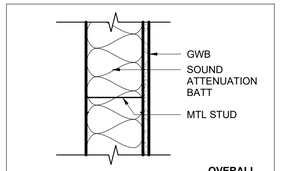
TWO HR FIRE & SMOKE PARTITION	PRIORITY 1 - HIGHEST
TWO HR FIRE PARTITION	PRIORITY 2
TWO HR SHAFT PARTITION	PRIORITY 2
ONE HR FIRE & SMOKE PARTITION	PRIORITY 3
ONE HR FIRE PARTITION	PRIORITY 4
NON RATED PARTITION	PRIORITY 5 - LOWEST

* TABLE DOES NOT INCLUDE 3 AND 4 HR RATED PARTITIONS

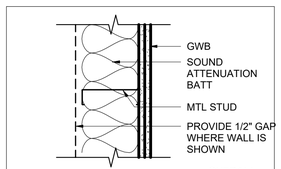
5 STANDARDS - RATED WALL INTERSECTIONS
Scale: 3/4" = 1'-0"



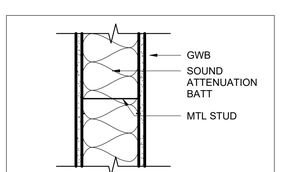
		OVERALL WIDTH
13	3 5/8" STUDS AT 16" O.C. 2 LAYERS 5/8" GWB EACH SIDE RATING: 2HR (UL U411)	6 1/8" STC-48/56
14	6" STUDS AT 16" O.C. 2 LAYERS 5/8" GWB EACH SIDE RATING: 2HR (UL U411)	8 1/2" STC-48/60



		OVERALL WIDTH
22	2 1/2" STUDS AT 16" O.C. 1 LAYER 5/8" GWB RATING: NA	3 1/8" STC-20/25 EST
23	3 5/8" STUDS AT 16" O.C. 1 LAYER 5/8" GWB RATING: NA	4 1/4" STC-20/25 EST
24	6" STUDS AT 16" O.C. 1 LAYER 5/8" GWB RATING: NA	6 5/8" STC-20/25 EST



		OVERALL WIDTH
27	2 1/2" STUDS AT 16" O.C. 2 LAYERS 5/8" GWB RATING: NA	3 3/4" STC-25/30 EST
29	6" STUDS AT 16" O.C. 2 LAYERS 5/8" GWB RATING: NA	7 1/4" STC-25/30 EST



		OVERALL WIDTH
33	3 5/8" STUDS AT 16" O.C. 1 LAYER 5/8" GWB EACH SIDE RATING: 1HR (UL U465)	4 7/8" STC-40/49
34	6" STUDS AT 16" O.C. 1 LAYER 5/8" GWB EACH SIDE RATING: 1HR (UL U465)	7 1/4" STC-40/49 EST

PARTITION TYPE REFERENCE

THE FOLLOWING IS AN EXAMPLE OF A PARTITION TYPE REFERENCE, AS IT IS USED ON A FLOOR PLAN, WITH SAMPLE MODIFIERS.

Y 23 — PARTITION MODIFIER (IF 2 LETTERS, BOTH APPLY)
BASIC PARTITION TYPE

MATERIALS MODIFIER

B REPLACE OUTER GWB LAYER WITH ABUSE-RESISTANT GWB (AT HALL OR ASSEMBLY SIDE OF WALL, U.N.O.)
G GROUT WALL SOLID (FOR REQUIREMENTS IN ADDITION TO STRUCTURAL GROUTING)

PARTITION HEIGHT MODIFIERS

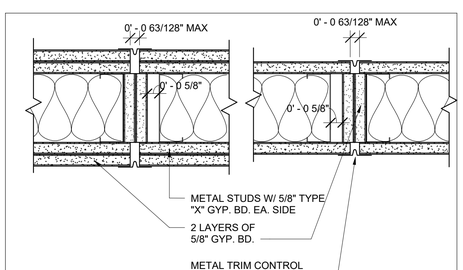
ALL PARTITIONS SHALL EXTEND FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURAL SLAB ABOVE EXCEPT WHERE OTHERWISE SPECIFICALLY NOTED. EXTEND ALL LAYERS OF GWB TO DECK, EXCEPT THAT SPECIALTY BOARD MAY BE REPLACED WITH NORMAL BOARD FROM 6" ABOVE CEILING UP.

Y EXTEND STUDS AND GWB TO 6" ABOVE FINISH CEILING ONLY
Z PARTIAL HEIGHT PARTITION OR SPECIAL HEIGHT CONDITION - REFER TO PLAN NOTES AND INTERIOR ELEVATIONS FOR SPECIFICS

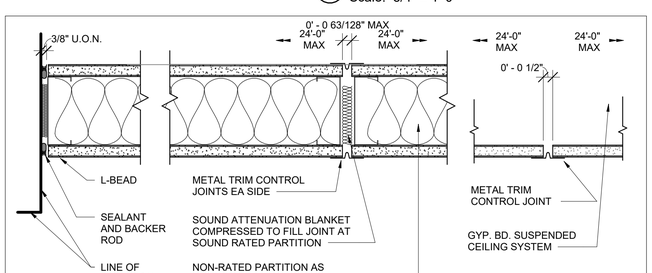
NOTES:

1. REFER TO LIFE SAFETY PLANS AND FLOOR PLANS FOR LOCATIONS OF FIRE RATED PARTITIONS. WHERE FIRE RATING IS CALLED FOR IN LIFE SAFETY PLAN OR BY PARTITION TYPE CALL OUT ON PLANS, PROVIDE FIRE RATED ASSEMBLY IN FULL COMPLIANCE WITH REFERENCED UNDERWRITERS LABORATORIES, WARNOCK HERSEY, OR FACTORY MUTUAL TESTED SYSTEM.
2. SLEEVE AND SEAL ALL WALL PENETRATIONS. REFER TO SPECIFICATIONS FOR EXECUTION REQUIREMENTS.
3. PROVIDE DECK FILLER AND SEALANT AT INTERSECTIONS OF PARTITIONS AND UNDERSIDE OF STRUCTURE. FOR HEAD CONDITIONS AT RATED WALLS SEE DETAIL 2.
4. REFER TO SPECIFICATION REQUIREMENTS FOR ADDITIONAL REQUIREMENTS FOR SEALANT AND TREATMENT OF WALL PENETRATIONS AT SPECIALTY AREAS INCLUDING BUT NOT LIMITED TO VIVARIUMS, SPECIALTY LABS, MECHANICAL AREAS, AND SPECIAL CONTAINMENT AREAS.
5. REFER TO FINISH SCHEDULE FOR LOCATIONS OF FINISHES INCLUDING CERAMIC TILE, WOODWORK, AND FRP. "OVERALL WIDTH" SHOWN FOR PARTITION TYPES IS EXCLUSIVE OF THICKNESS OF APPLIED FINISH MATERIALS.
6. PROVIDE CEMENT BACKER BOARD BEHIND ALL TILE LOCATIONS.
7. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR REINFORCEMENT OF MASONRY WALLS.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR CROSS-BRIDGING HORIZONTAL BRACING AND OTHER REQUIREMENTS FOR PARTITIONS.
9. PROVIDE DOUBLE STUD JAMBS UP TO STRUCTURE ABOVE AT ALL OPENINGS. REINFORCE OPENING HEADS AND SILLS AS REQUIRED TO MEET DEFLECTION CRITERIA
10. UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS, PROVIDE 5/8" TYPE 'X' FIRE RATED GWB AT ALL PARTITIONS.
11. PROVIDE SEALANT JOINT BETWEEN BOTTOM OF GWB AND FLOOR SLAB AT ALL PARTITIONS.
12. PROVIDE WOOD BLOCKING PER SPECIFICATION REQUIREMENTS FOR ALL CLOSETS, CASEWORK, COUNTERS, CABINETS, SHELVES ,DOOR STOPS, RAILINGS, GRAB BARS, SPECIALTIES, MILLWORK, AND OTHER ITEMS ATTACHED TO AND SUPPORTED FROM WALLS TO PROVIDE SOLID ATTACHMENT. PROVIDE ADDITIONAL BLOCKING AT ANY LOCATIONS INDICATED IN PLANS, SPECIFICATIONS OR DETAILS.
13. REFER TO PARTITION TYPES FOR STC RATINGS. WHERE TWO RATINGS ARE SHOWN, THE FIRST IS FOR THE PARTITION WITHOUT INSULATION, AND THE SECOND IS WITH.

1 INTERIOR PARTITION TYPES AND NOTES
Scale: 1 1/2" = 1'-0"



3 STANDARDS - RATED PARTITION CONTROL JOINT DETAILS
Scale: 3" = 1'-0"



2 STANDARDS - NON-RATED PARTITION CONTROL JOINT DETAILS
Scale: 3" = 1'-0"

CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

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SHEET NAME
INTERIOR PARTITION TYPES & WALL ASSEMBLIES

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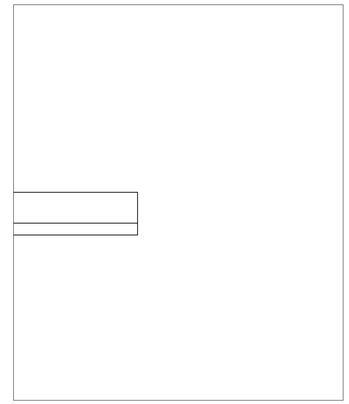
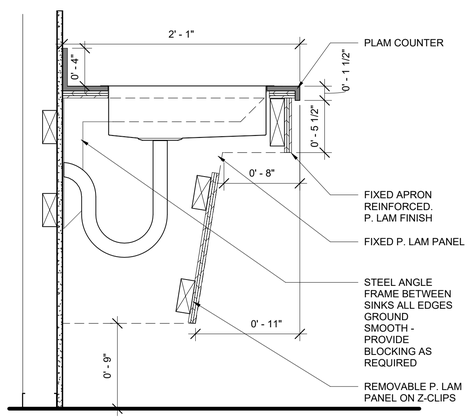
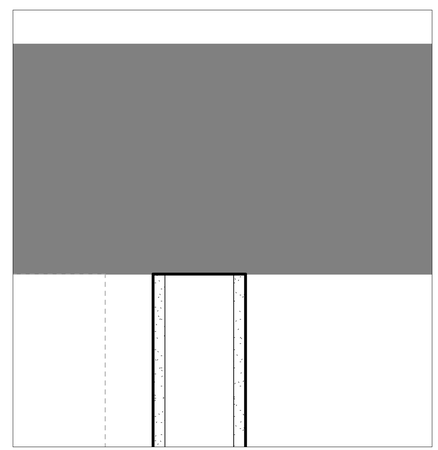


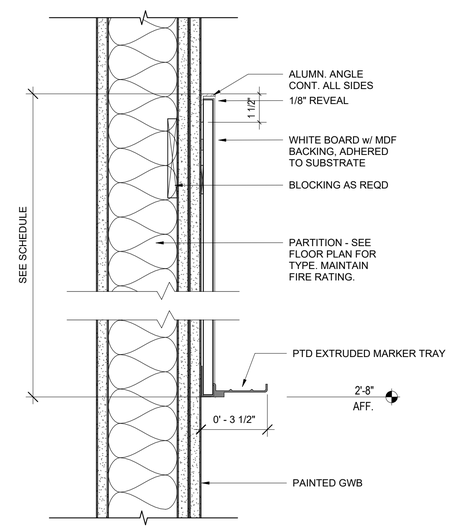
6 CYBER FLEX 247 - ACOUSTIC PARTITION AT ACT CEILING
Scale: 3" = 1'-0"



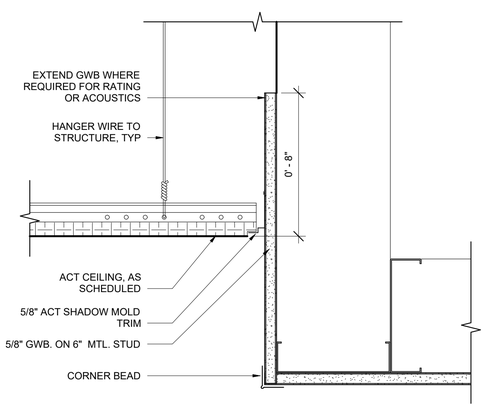
2 KITCHNETTE SINK/BOTTLE FILLER
Scale: 1 1/2" = 1'-0"



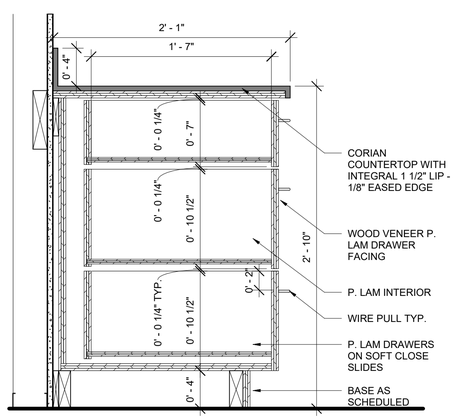
3 MULLION MATE
Scale: 3" = 1'-0"



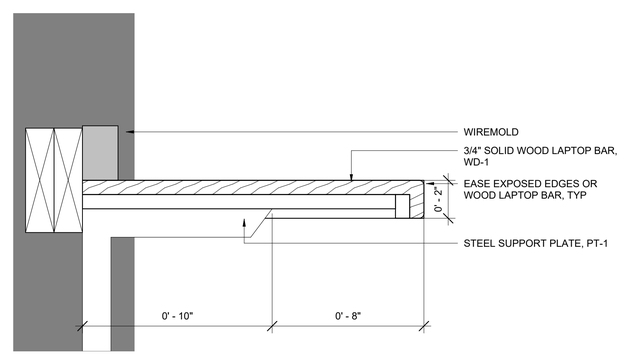
9 WHITE BOARD SECTION
Scale: 3" = 1'-0"



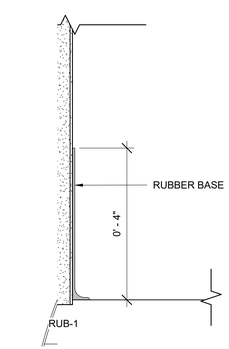
5 ACT TO GWB SOFFIT
Scale: 3" = 1'-0"



7 KITCHENETTE CASEWORK
Scale: 1 1/2" = 1'-0"



4 COMPUTER BAR
Scale: 3" = 1'-0"



1 TYPICAL RUBBER BASE DETAIL
Scale: 6" = 1'-0"

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CHAMPLAIN COLLEGE

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DRAWING NO.:

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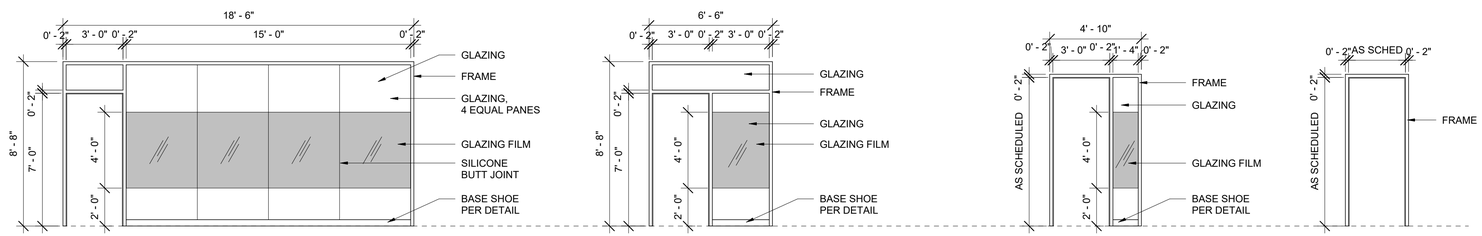
DOOR AND FRAME SCHEDULE

DOOR NO.	ROOM NAME	ROOM NO.	DOOR SIZE W	DOOR SIZE HT	DOOR SIZE THK	DOOR INFORMATION TYPE	PAIR	MATL	FINISH	GLAZ	FRAME INFORMATION TYPE	MATL	FINISH	GLAZ	DETAIL LOCATION HEAD	JAMB	SILL	HDWR
			2' - 10 125/128"	7' - 0 3/4"	0' - 0 3/4"	PP	(2)											
236	SERVER	236	6' - 0"	7' - 0"	0' - 1 3/4"	AA	(2)											
LEAHY																		
241	LOBBY	207	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	WD	CLR	GL-1	3	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 7/A804	
242	IOT LAB	214	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	-	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
243A	PM OFFICE	211	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	-	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
243B	STORAGE	214A	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	ICM	PTD	-	1	HM	PTD	-	1/A804	1/A804	5/A804	
244	COLLAB/ CONF	213	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	-	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
245	PROF SERVICES COMP LAB	212	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	-	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
245B	SERVER	212B	4' - 0"	7' - 0"	0' - 1 3/4"	AA	(2)	ICM	PTD	-	1	HM	PTD	-	1/A804	1/A804	5/A804	
246	DIGITAL FORENSICS	210	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	-	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
246B	LOCKED STORAGE	210B	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	ICM	PTD	-	1	HM	PTD	-	1/A804	1/A804	5/A804	
247	CYBER FLEX LAB	209	3' - 0"	7' - 0"	0' - 0 3/4"	E		AL	PVDF	GL-1	4	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
247A	DIGITAL TRAINING LAB	209A	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	-	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
247C	CYBER FLEX LAB	209	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	ICM	PTD	-	1	HM	PTD	-	1/A804	1/A804	6/A804	
248	CYBER FLEX LAB	209	2' - 0"	8' - 8"	0' - 1 3/4"	A	(1)											
NUHARBOR																		
231A	WELCOME CENTER	231	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	GL-1	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 6/A804	
232	10 PERS CONF.	232	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	GL-1	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
234A	CLOSET	234A	5' - 0"	7' - 0"	0' - 1 3/4"	AA	(2)	ICM	PTD	-	1	HM	PTD	-	1/A804	1/A804	5/A804	
234B	CLOSET	234B	5' - 0"	7' - 0"	0' - 1 3/4"	AA	(2)	ICM	PTD	-	1	HM	PTD	-	1/A804	1/A804	5/A804	
235	CONFERENCE RM.	235	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	-	1	HM	PTD	-	1/A804	1/A804	5/A804	
238	OFFICE	238	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	GL-1	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
239	OFFICE	239	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	GL-1	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
239O	WELLNESS	237	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	GL-1	1	AL	PVDF	-	4/A804	3/A804	4/A804, 5/A804	
239S	OPEN OFFICE	234	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	GL-1	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
240	OFFICE	240	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	-	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 5/A804	
321	WELCOME CENTER	231	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	WD	CLR	GL-1	2	AL	PVDF	GL-2	4/A804	3/A804	4/A804, 7/A804	

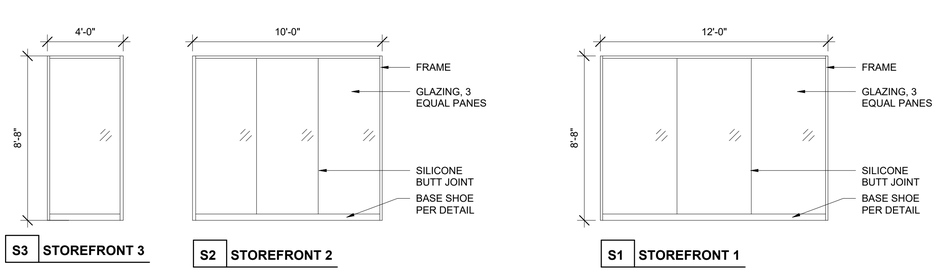
GLAZING LEGEND

GL-1: 1/4" CLEAR, TEMPERED SAFETY, VISION GLASS
GL-2 5/16" CLEAR, LAMINATED GLASS



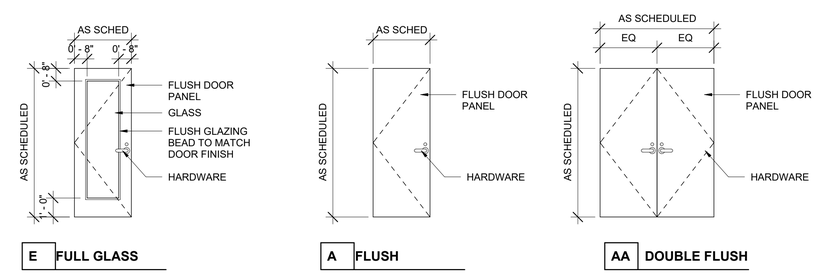
4 FRAME 4 | 3 FRAME 3 | 2 FRAME 2 | 1 FRAME 1

2 DOOR FRAME TYPE ELEVATIONS
Scale: 1/4" = 1'-0"



S3 STOREFRONT 3 | S2 STOREFRONT 2 | S1 STOREFRONT 1

3 INTERIOR STOREFRONT TYPE ELEVATIONS
Scale: 1/4" = 1'-0"



E FULL GLASS | A FLUSH | AA DOUBLE FLUSH

1 DOOR ELEVATIONS
Scale: 1/4" = 1'-0"

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CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

175 Lakeside Ave, Burlington, VT 05401

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SHEET NAME
SCHEDULES AND DOOR & FRAME TYPES

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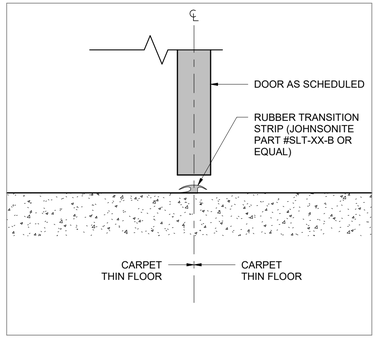
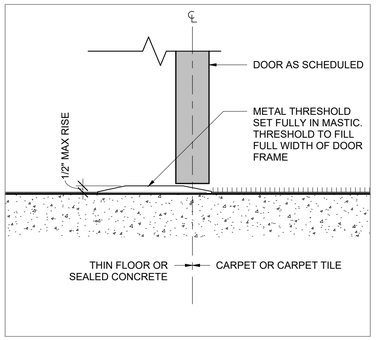
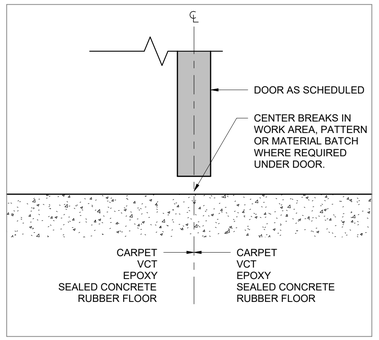
A802



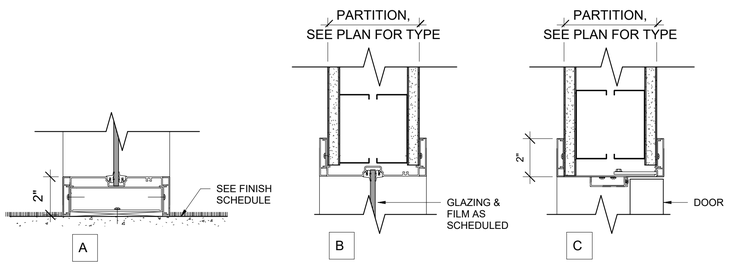
6 A804 SILL TRANS - RUBBER TRANS STRIP
Scale: 3" = 1'-0"



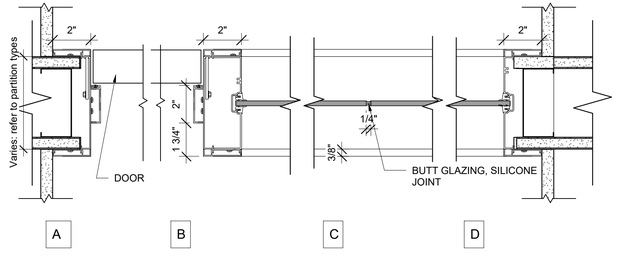
7 A804 MTL THRESHOLD AT CPT TO THIN FLR
Scale: 3" = 1'-0"



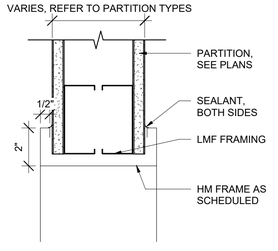
5 A804 SILL TRANSITION - NO THRESHOLD
Scale: 3" = 1'-0"



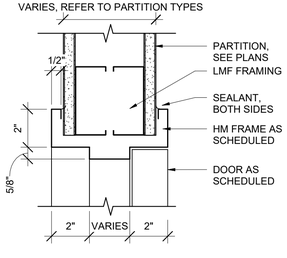
4 INTERIOR ALUMINUM FRAMES - SECTION
Scale: 3" = 1'-0"



3 INTERIOR ALUMINUM FRAMES - PLAN
Scale: 3" = 1'-0"



2 HM CASED OPENING HEAD (JAMB SIMILAR)
Scale: 3" = 1'-0"



1 HM DOOR HEAD AT LMF WALL (JAMB SIMILAR)
Scale: 3" = 1'-0"

CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

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DOOR FRAME DETAILS

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DRAWING NO.:

A804

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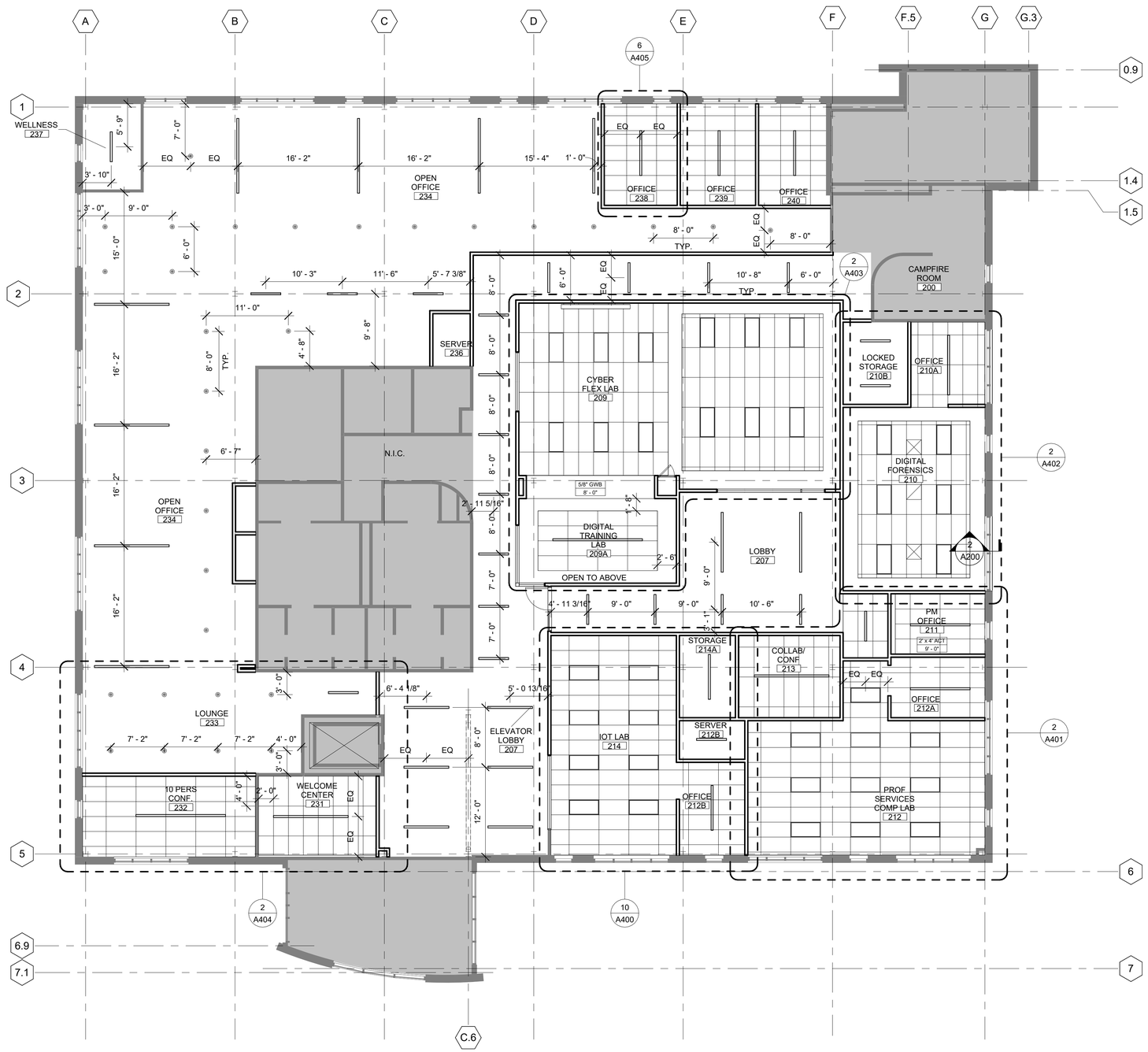
GENERAL REFLECTED CEILING PLAN NOTES

1. GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING ELEMENTS IN THE FIELD.
2. FOR NOTES AND DIMENSIONS FOR CEILINGS IN ENLARGED AREAS SEE ENLARGED RCPS.
3. LOCATION AND ORIENTATION OF LIGHT FIXTURES, DIFFUSERS, AND OTHER DEVICES SHALL BE AS SHOWN ON ARCHITECTURAL RCPS. WHERE DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OBTAIN CLARIFICATIONS PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CLEARANCE PROBLEMS WITH LIGHT FIXTURES AND SHALL NOT MOVE, RELOCATE OR ADJUST THE LOCATION OF ANY LIGHT FIXTURE WITHOUT THE ARCHITECTS APPROVAL.
5. IN SPACES WITHOUT FINISHED ARCHITECTURAL CEILINGS (MECHANICAL, ELECTRICAL, TL/DATA, UTILITY, ETC.) REFER TO MEP/FP DRAWINGS FOR ALL LIGHTING, SPRINKLERS, MECHANICAL AND OTHER REQUIRED CEILING DEVICE LOCATIONS.
6. SUPPLY AND RETURN AIR DIFFUSERS AND ALL OTHER CEILING EQUIPMENT AND DEVICES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE DIAGRAMMATIC. REFER TO ENGINEERS' DRAWINGS FOR SCHEDULES AND SIZES.
7. FOR HVAC, FP AND OTHER DEVICES NOT SHOWN, REFER TO CONSULTANTS' DRAWINGS. LOCATE DEVICES IN CENTER OF CEILING TILE, UNO. WHERE DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OBTAIN CLARIFICATIONS PRIOR TO INSTALLATION.
8. SPRINKLER HEADS TYPICALLY NOT SHOWN. REFER TO FIRE PROTECTION DRAWINGS FOR REQUIREMENTS. CENTER HEADS IN TILES.
9. WINDOW SHADES NOT SHOWN ON RCPS, ASSUME CEILING MOUNTED MANUAL SHADES.
10. CEILING ELEVATIONS SHOWN ARE ABOVE FINISH FLOOR IN ROOM.
11. PROTECT THE EXISTING BUILDING ELEMENTS SCHEDULED TO REMAIN. THE CONSTRUCTION MANAGER IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING MATERIALS DURING DEMOLITION OR CONSTRUCTION TO MATCH ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
12. EXISTING CEILING GRID WHERE NOTED TO BE PAINTED AND REUSED.

DEDUCT ALTERNATES:

D2: ELIMINATE CEILINGS IN IOT LAB, PROFESSIONAL SERVICES COMP LAB, AND DIGITAL FORENSICS



CEILING TYPE

- GWB-1
- ACT-1

RCP SYMBOLS

- PROJECTOR
- SUPPLY AIR
- RETURN AIR

MARKER BOARDS

WB-1 = 4'x6'

WB-2 = 4'x8'

LIGHTING SYMBOLS

- 2X4 FIXTURE
- LINEAR LIGHT
- PENDANT LIGHT
- RECESSED CAN LIGHT

1 LEVEL 2 REFLECTED CEILING PLAN
Scale: 1/8" = 1'-0"

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SECOND FLOOR REFLECTED CEILING PLAN

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ROOM FINISH SCHEDULE

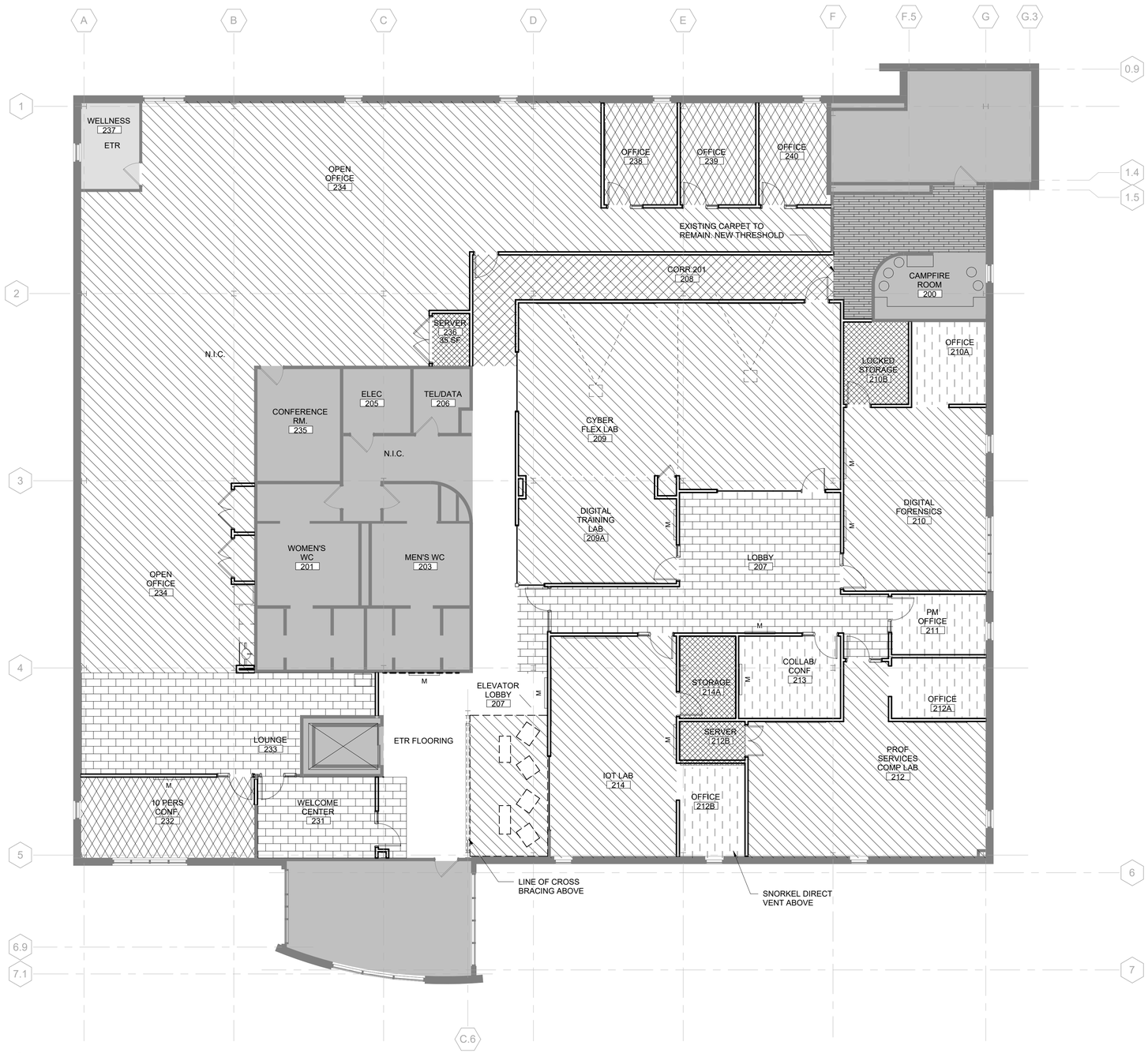
RM. NO.	ROOM NAME	FLOOR MATL	FLOOR FLOOR PRODUCT	BASE MATL	BASE FINISH	WALL MATL	WALL FINISH	CEILING MATL	CEILING FINISH
LEAHY									
209	CYBER FLEX LAB	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	N/A
210	DIGITAL FORENSICS	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	N/A
212	PROF SERVICES COMP LAB	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	N/A
214	IOT LAB	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	N/A
213	COLLAB/ CONF	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	N/A
211	PM OFFICE	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	2X2
212B	SERVER	RF-3	VINYL PLANK FLOORING	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
212B	OFFICE	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	2X2
210B	LOCKED STORAGE	RF-3	VINYL PLANK FLOORING	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	N/A
200	CAMPFIRE ROOM	N/A	ETR	N/A	N/A	N/A	N/A	N/A	N/A
207	ELEVATOR LOBBY	RF-1	VINYL PLANK FLOORING	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
209A	DIGITAL TRAINING LAB	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	N/A
210A	OFFICE	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	N/A
214A	STORAGE	RF-3	VINYL PLANK FLOORING	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	N/A
207	LOBBY	RF-2	VINYL PLANK FLOORING	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
212A	OFFICE	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	ACT-1	N/A
208	CORR.201	RF-2	VINYL PLANK FLOORING	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
NUHARBOR									
240	OFFICE	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-2		ACT-1	N/A
237	WELLNESS	ETR	ETR	ETR	ETR	PT-1	PAINT	ETR	ETR
239	OFFICE	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-2	PAINT	ACT-1	N/A
238	OFFICE	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-2	PAINT	ACT-1	N/A
231	WELCOME CENTER	RF-1	VINYL PLANK FLOORING	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
232	10 PERS CONF.	CPT-1	CARPET	RB-1	RESILIENT BASE	PT-2	PAINT	ACT-1	N/A
236	SERVER	RF-3	VINYL PLANK FLOORING	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
234	OPEN OFFICE	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
234B	CLOSET	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
234A	CLOSET	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
233	LOUNGE	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR
254	COFFEE BAR	CPT-2	CARPET	RB-1	RESILIENT BASE	PCT-1	PAINT	OPEN TO ABOVE	ETR
255	HOTELLING	CPT-2	CARPET	RB-1	RESILIENT BASE	PT-1	PAINT	OPEN TO ABOVE	ETR

FLOORING LEGEND

RF-1 RF-3 RF-4
CPT-1 CPT-2 CPT-3 ETR

DEDUCT ALTERNATE:

D1: PROTECT IN PLACE EXISTING RESILIENT VINYL PLANK, DECO WOOD FLOORING AND SALVAGE EXISTING RESILIENT VINYL PLANK DECO WOOD FLOORING FOR REINSTALLATION. REFER TO A1001



1 LEVEL 2 FLOOR FINISH PLAN
Scale: 1/8" = 1'-0"

CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION - PHASE 1

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SECOND FLOOR FLOORING PLAN

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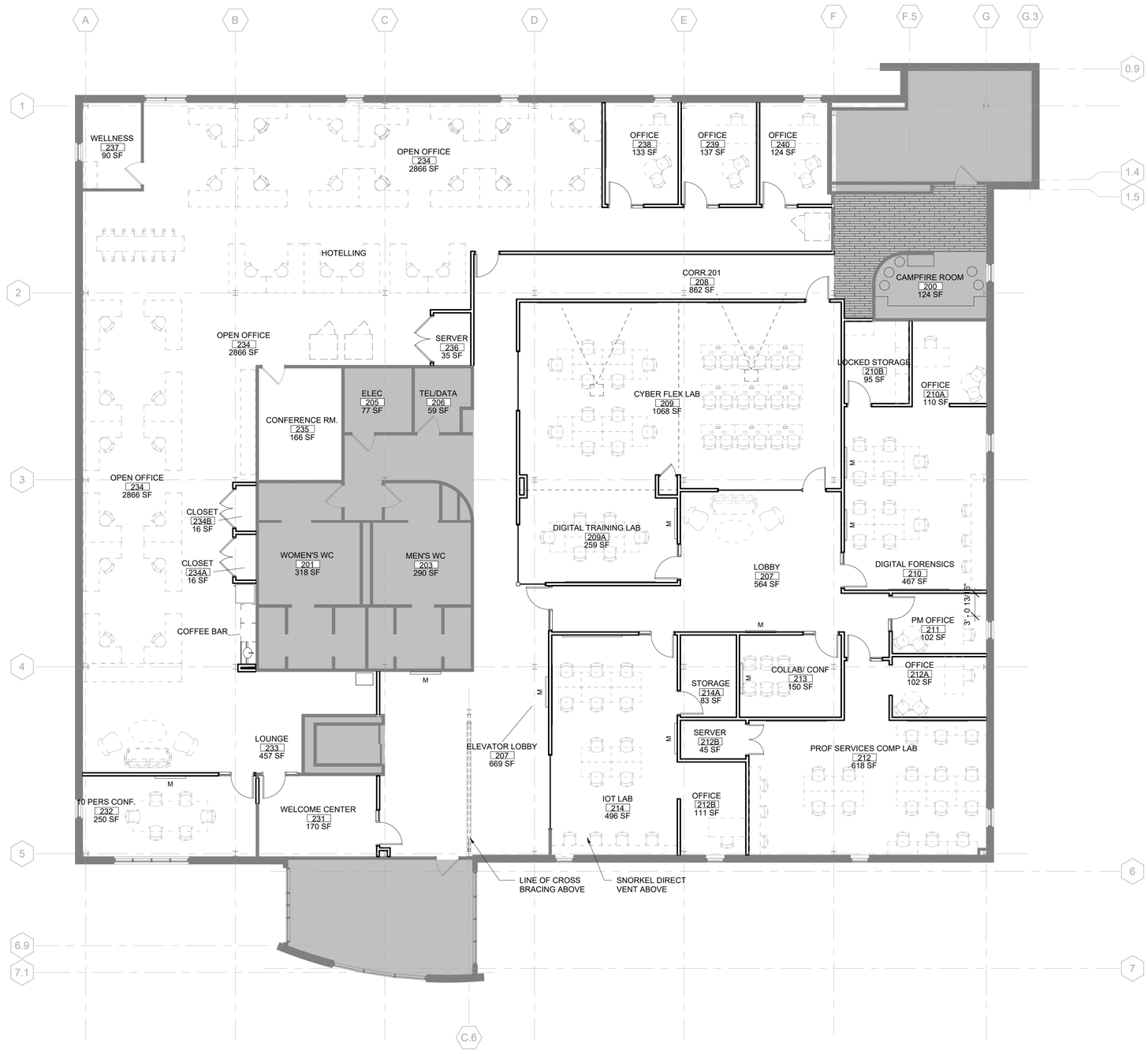
GENERAL FURNITURE FLOOR PLAN NOTES

1. GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING ELEMENTS IN THE FIELD.
2. PROTECT THE EXISTING BUILDING ELEMENTS SCHEUDLED TO REMAIN. THE CONSTRUCTION MANAGER IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING MATERIALS DURING DEMOLITION OR CONSTRUCTION TO MATCH ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
3. FLOOR ELEVATIONS ARE TO TOP OF FINISH FLOOR.
4. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, U.N.O.
5. SEE A800 FOR PARTITION TYPES AND TYPICAL DETAILS.
6. SEE A800 SERIES FOR DOOR SCHEDULE, INTERIOR GLAZING TYPES, AND DETAILS. DOORS SHALL BE INSTALLED 4" FROM CORNER OF PARTITION, U.N.O.
7. ALL INTERIOR PARTITIONS TO INCLUDE ACOUSTIC INSULATION. FOR CLARITY, ACOUSTIVAL INSULATION IS NOT SHOWN IN FLOOR PLANS

GENERAL FURNITURE PLAN NOTES

FURNITURE SHOWN IS FOR LAYOUT ONLY. (N.I.C.)



1 LEVEL 2 FURNITURE PLAN - INDUSTRY PARTNER SPACE
Scale: 1/8" = 1'-0"

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LEVEL 2 FURNITURE PLAN

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GOODY CLANCY PROJECT NUMBER: 23026

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CHECKED: Checker	SCALE: 1/8" = 1'-0"

DRAWING NO.:

A1102

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

1. RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.
2. ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, NFPA, INTERNATIONAL BUILDING CODE, UL, SMACNA, OSHA, AND NEC.
3. CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.
4. CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
5. ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.
7. DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.
8. IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE RENDERED HARMLESS.
9. GENERAL CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR CONFORMITY WITH CONTRACT DRAWINGS, ERECTION PROCEDURES, CONSTRUCTION SCHEDULE, ACTUAL FIELD DIMENSIONS, AND COORDINATION WITH OTHER TRADES PRIOR TO SUBMITTING THEM TO ENGINEER. SHOP DRAWINGS MUST POSSESS GENERAL CONTRACTOR'S APPROVAL STAMP AND ANY COMMENTS. SHOP DRAWINGS NOT REVIEWED BY THE GENERAL CONTRACTOR WILL BE REJECTED.

GENERAL STRUCTURAL NOTES

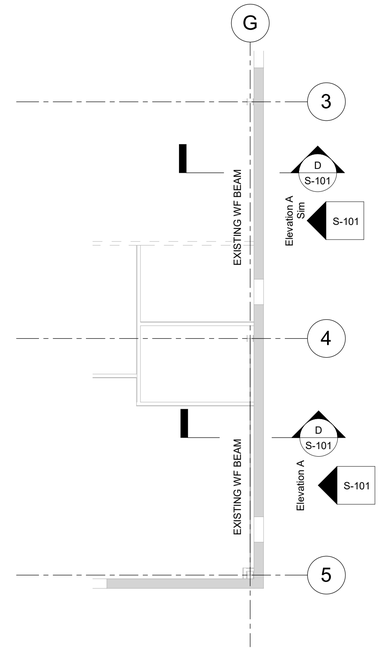
1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AS WELL AS DRAWINGS OF ALL OTHER TRADES. POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. STRUCTURAL DESIGN CRITERIA:
   2015 INTERNATIONAL BUILDING CODE
3. WIND LOAD:

BASIC WIND SPEED	105 MPH
WIND TOPOGRAPHY FACTOR	1.00
WIND EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
COMPONENTS & CLADDING	AS PER ASCE 7-10

4. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO MAINTAIN THE STRUCTURAL INTEGRITY OF AND PREVENT THE OVERLOADING OF THE STRUCTURE DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, PROHIBITING CRANES OR OTHER HEAVY EQUIPMENT FROM BEARING ON SLABS OR ADJACENT TO FOUNDATION WALLS.
5. NO MAIN FRAMING OR STRUCTURAL MEMBERS ARE TO MODIFIED, NOTCHED, OR CUT IN A MANNER OTHER THAN SHOWN IN THE CONTRACT DRAWINGS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY BRACING OR SHORING INCLUDING ENGINEERING OF SUCH SYSTEMS REQUIRED TO COMPLETE THE WORK OF THIS CONTRACT.

COLD ROLLED METAL FRAMING NOTES

1. COLD FORMED METAL FRAMING DESIGN IS BASED ON CLARK DIETRICH COMPONENTS AND ILLUSTRATIONS. SUBSTITUTES SHALL MEET OR EXCEED THE SECTIONS PROPERTIESOF THE RESPECTIVE MEMBERS.
2. FRAMING AND INSTALLATION TO COMPLY WITH THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATIONS FOR THE DESIGN OF COLD FORMRD STEEL STRUCTURAL MEMBERS.
3. FRAMING COMPONENTS SHALL BE FORMED FROM STEEL CONFORMING TOTHE MINIMUM REQUIREMENTS OFASTM A446, GRADE D, WITH A MINIMUMYIELD STRENGTH OF 50,000 PSI (12, 14 AND 16 GAGE COMPONENTS) AND ASTM A446, GRADE A, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI (18 AND 20 GAGE COMPONENTS).
4. CONNECTIONS BETWEEN COLD FORMED MEMBERS ARE TO BE MADE WITH A MINIMUM OF (2) #10 TEK BUILDEX SCREWS OR APPROVED EQUIVALENT, UNLESS NOTED OTHERWISE.



LEVEL 3 - PART FRAMING PLAN

1/8" = 1'-0"

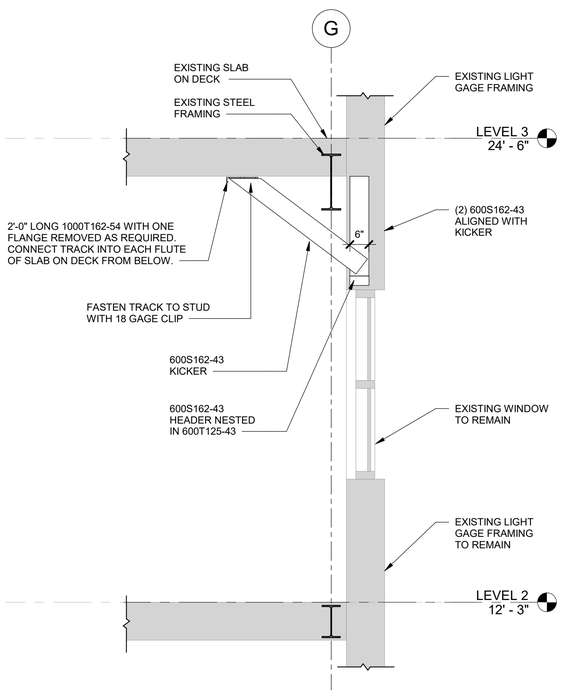
DRAWING NOTES:

1. THE FOLLOWING NOTES APPLY TO THIS DRAWING ONLY.
2. REFER TO GENERAL NOTES, TRADE NOTES, ABBREVIATIONS & LEGEND ON THIS DRAWING.
3. COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING TRADE DRAWINGS.

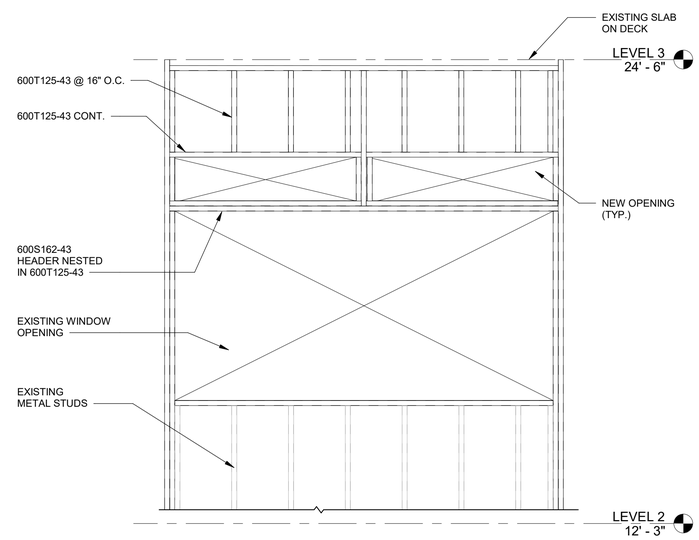
STRUCTURAL ABBREVIATIONS

BM	BEAM
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRG	BEARING
℄	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CS	CONSTRUCTION JOINT
CT	CONTRACTION JOINT
DIA	DIAMETER
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EQUIP	EQUIPMENT
EW	EACH WAY
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FS	FAR SIDE
FTG	FOOTING
GALV	GALVANIZED
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
IJ	ISOLATION JOINT
JT	JOINT
NA	NEUTRAL AXIS
NS	NEAR SIDE
©C	ON CENTER
P	PLATE
RD	ROOF DRAIN
PPC	PRECAST PRESTRESSED CONCRETE
REINF	REINFORCING
REQ'D	REQUIRED
SECT	SECTION
SIM	SIMILAR
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOFC	TOP OF FILL CONCRETE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
WF	WALL FOOTING
WP	WORK POINT
WS	WATERSTOP
WWF	WELDED WIRE FABRIC

#	INDICATES ASTM STANDARD REINFORCING BARS
@	AT (DENOTES SPACING)
⬡	INDICATES A QUANTITY
	INDICATES A FIELD WELDED MOMENT CONNECTION TO DEVELOP THE FULL CAPCITY OF THE MEMBER
☐	INDICATES A DRAWING NOTE KEYED TO PLAN
	INDICATES A BRACE FRAME, SEE SHEET SX



SECTION D S-101
1/2" = 1'-0"



Elevation A
1/2" = 1'-0"

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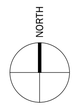
REGISTRATION

KEY PLAN



PROJECT STATUS
CD CHECK SET
5/1/2024

SHEET NAME
NOTES, PART PLAN & SECTIONS

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: FM	DATE: 5/1/2024
CHECKED: RWL	SCALE: As indicated

DRAWING NO.:

S-101

FIRE PROTECTION LEGEND

(NAME)	NEW PIPING (BOLD)
(NAME)	EXISTING PIPING (LIGHT)
F	FIRE PROTECTION WATER MAIN
SPKR	SPRINKLER MAIN/BRANCH
SP	STANDPIPE MAIN
DR	SPRINKLER DRAIN
VS VS	LOW PRESSURE DROP DOUBLE CHECK BACKFLOW PREVENTER
VS	O.S. & Y. OR OTHER INDICATING VALVE WITH TAMPER SWITCH
WF	FLOW SWITCH
PS	LOW PRESSURE SWITCH
	CHECK VALVE
E	ELECTRIC BELL
	WATER MOTOR GONG
W	WET ALARM VALVE
D	DRY ALARM VALVE
	PIPE CONTINUES
	STRAINER
	CONNECT NEW TO EXISTING
	LIMIT OF WORK
	FIRE DEPARTMENT CONNECTION - SIAMESE
	FIRE DEPARTMENT CONNECTION - STORZ
	BRANCH OUT OF TOP OF MAIN
	BRANCH OUT OF BOTTOM OF MAIN
	CAP
	CONCEALED PENDENT SPRINKLER
	EXPOSED PENDENT SPRINKLER
	UPRIGHT SPRINKLER
	SIDEWALL SPRINKLER
D	DRY SIDEWALL SPRINKLER ON WET PIPE SYSTEM (TYP FOR ALL HEAD TYPES)
	UNION
	EXPANSION JOINT
	PIPING AND DEVICES TO BE REMOVED
	INSPECTORS TEST & DRAIN
	BALL VALVE

FIRE PROTECTION ABBREVIATIONS

CONN	CONNECT
D	DRY SPRINKLER
DEPT	DEPARTMENT
ETBR	EXISTING TO BE REMOVED
ETR	EXISTING TO REMAIN
F	FIRE PROTECTION
F.D.	FIRE DEPARTMENT
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FP	FIRE PUMP
GC	GENERAL CONTRACTOR
P.I.V.	POST INDICATOR VALVE
SP	STANDPIPE
SPKR	SPRINKLER
W	WET SPRINKLER
W/	WITH

FIRE PROTECTION TRADE NOTES

FP-1 COORDINATE LOCATION OF ALL PIPING AND EQUIPMENT WITH ALL OTHER TRADES.

FP-2 MAINTAIN MINIMUM REQUIRED WORKING CLEARANCES ADJACENT TO ELECTRICAL EQUIPMENT PER LATEST EDITION OF NATIONAL ELECTRIC CODE.

FP-3 PROVIDE PIPE SLEEVES WHEREVER PIPING PENETRATES ANY WALL, FLOOR, OR CEILING.

FP-4 INSTALL ALL PIPING AND WIRING NEATLY AND SQUARE WITH BUILDING FEATURES.

FP-5 ALL PENETRATIONS THROUGH NEW OR EXISTING WALLS, CEILINGS AND FLOORS SHALL BE EITHER CORE DRILLED OR SAW CUT. CHISELED OR HAMMERED PENETRATIONS ARE NOT ALLOWED.

FP-6 WHERE PIPING PENETRATES A FIRE-RATED WALL, FLOOR, OR CEILING, FIRE STOPPING INSULATION SHALL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR.

FP-7 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ACCESS PANELS IN AREAS TO BE FINISHED BY GENERAL CONTRACTOR. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL OTHER ACCESS DOORS. COORDINATE AS REQUIRED.

FP-8 ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, UNLESS OTHERWISE INDICATED.

FP-9 FIRE PROTECTION SUB-CONTRACTOR SHALL COORDINATE FINAL SPRINKLER HEAD LAYOUT WITH MOST CURRENT ARCHITECTURAL REFLECTED CEILING PLAN. FINAL HEAD LAYOUT SHALL BE INCLUDED ON THE SUBMITTAL DRAWINGS WHICH SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO INTALLATION.

FIRE PROTECTION DEMOLITION NOTES

D-1 ALL EXISTING FIRE PROTECTION SYSTEMS, EQUIPMENT AND APPURTENANCES LOCATED IN THE EXISTING FACILITY ARE TO BE REMOVED WHERE NOTED ON THE ARCHITECTURAL AND/OR FIRE PROTECTION PLANS, AND/OR IN THE PROJECT SPECIFICATIONS. THE OWNER MAY WISH TO SALVAGE CERTAIN ITEMS; CONSULT OWNER FOR FURTHER INSTRUCTIONS. ITEMS IDENTIFIED TO BE SALVAGED ARE TO BE CAREFULLY DISASSEMBLED AND REMOVED, AND TURNED OVER TO THE OWNER AS DIRECTED.

D-2 WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, THE REMOVAL OF ALL FIRE PROTECTION PIPING SYSTEMS, SPRINKLERS, APPURTENANCES, HANGERS, SUPPORTS, ETC.

D-3 NO EXISTING FIRE PROTECTION EQUIPMENT, SYSTEMS, OR APPURTENANCES SHALL BE ABANDONED IN PLACE.

D-4 COORDINATE WITH THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND ALL OTHER SUB-CONTRACTORS IN ORDER TO DETERMINE OVERALL PROJECT PHASING AND DEMOLITION WORK SEQUENCING. COORDINATE REQUIRED DEMOLITION BY OTHER TRADES RESULTING FROM FIRE PROTECTION SYSTEMS DEMOLITION.

D-5 REFER TO THE ARCHITECT'S DEMOLITION NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION AND REQUIREMENTS.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, IBC 2015 AND VERMONT FIRE AND BUILDING SAFETY CODE 2015, IMC 2018, VERMONT PLUMBING RULES 2021, VERMONT ELECTRICAL SAFETY RULES 2020, VERMONT ELEVATOR SAFETY RULES 2014, NFPA, UL, ANSI, OSHA AND NEC.

G-3 CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE RENDERED HARMLESS.

PROVIDE WET AUTOMATIC SPRINKLER SYSTEM OVER ENTIRE FLOOR. SYSTEM SHALL BE BASED ON NFPA 13 COVERAGE REQUIREMENTS ACCORDING TO THE FOLLOWING GENERAL GUIDELINES:

LOCATION	DENSITY AND AREA
1. CLASSROOMS, STUDY AREAS, COMMON SPACES, ETC. WHERE COMBUSTIBILITY IS AT A MINIMUM SHALL BE CONSIDERED LIGHT HAZARD.	0.10 GPM/SQ. FT. OVER 1500 SQ. FT.
2. MECHANICAL, STORAGE ROOMS, ELECTRIC AND DATA CLOSETS SHALL BE CONSIDERED ORDINARY HAZARD GROUP I.	0.15 GPM/SQ. FT. OVER 1500 SQ. FT.

IN AREAS WHERE SEVERAL DIFFERENT OCCUPANCIES EXIST THE SPRINKLER SYSTEMS SHALL BE DESIGNED TO MEET THE MOST HYDRAULICALLY DEMANDING DENSITY AND AREA REQUIREMENTS. AN ALLOWANCE OF 100 GPM SHALL BE INCORPORATED IN DESIGN FOR HOSE STREAMS.

CONTRACTOR SHALL INSTALL NEW SPRINKLER HEADS IN ACCORDANCE WITH THE ABOVE DESIGN CRITERIA AND SHALL COORDINATE DESIGN CRITERIA WITH BUILDING OWNER'S INSURANCE COMPANY.

SPRINKLER HEAD SCHEDULE

SYMBOL	STYLE	MANUFACTURER AND MODEL
E	EXISTING UPRIGHT	AS EXISTS.
E	EXISTING CONCEALED	AS EXISTS.
	UPRIGHT / PENDENT	RELIABLE MODEL F1FR QUICK RESPONSE STANDARD UPRIGHT/PENDENT SPRINKLER HEAD, 155°F TEMPERATURE RATING, K=5.6.
	CONCEALED PENDENT	RELIABLE MODEL G5-56 QUICK RESPONSE FLAT PLATE CONCEALED AUTOMATIC SPRINKLER HEAD, 155°F TEMPERATURE RATING, 1/2" ORIFICE, K=5.6.

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RFS Project #: 9963.003

REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

ISSUES/REVISIONS

SHEET NAME
FIRE PROTECTION LEGEND, NOTES AND ABBREVIATIONS

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: ML | DATE: 05/01/2024

CHECKED: SAB | SCALE: NO SCALE

DRAWING NO.:

FP001

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1 SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN
1/8" = 1'-0"

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SHEET NAME
SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN

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DRAWING NO.:

FPD102

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1 SECOND FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0"

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SHEET NAME
SECOND FLOOR FIRE PROTECTION PLAN

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DRAWING NO.:

FP102

FIRE ALARM SYSTEM LEGEND

FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
PRE	PRE-ACTION SYSTEM/CONTROL UNIT
TPR#	FIRE ALARM TRANSPONDER # = TRANSPONDER NUMBER
FAA	FIRE ALARM ANNUNCIATOR
EVAC	VOICE EVACUATION CONTROL UNIT
MIC	REMOTE VOICE EVACUATION MICROPHONE
F	FIRE ALARM PULL STATION/FIRE ALARM BOX, MH = 44"AFF, UON
#W S C	CEILING MOUNTED FIRE ALARM SPEAKER #W = WATTAGE
#W S	WALL MOUNTED FIRE ALARM SPEAKER, MH = 6'-8"AFF, UON #W = WATTAGE
C F H	CEILING MOUNTED FIRE ALARM HORN
F H	WALL MOUNTED FIRE ALARM HORN, MH = 6'-8"AFF, UON
CD	CEILING MOUNTED FIRE ALARM STROBE CD = CANDELA RATING/SETTING
CD	WALL MOUNTED FIRE ALARM STROBE, MH = 6'-8"AFF, UON CD = CANDELA RATING/SETTING
CD C	CEILING MOUNTED FIRE ALARM HORN STROBE CD = CANDELA RATING/SETTING
CD	WALL MOUNTED FIRE ALARM HORN STROBE, MH = 6'-8"AFF, UON CD = CANDELA RATING/SETTING
S X	CEILING MOUNTED SMOKE DETECTOR E = ELEVATOR RECALL CONTROL WP = WEATHER PROOF L = LOCAL 120V DETECTOR LS = LOCAL 120V DETECTOR WITH INTEGRAL 177 CANDELA STROBE SB = LOCAL SYSTEM CONNECTED WITH SOUNDER BASE
WF	FLOW DETECTOR/SWITCH *
VS	VALVE WITH INTEGRATED SUPERVISORY SWITCH *
PS	PRESSURE DETECTOR/SWITCH *
RTS	REMOTE ALARM INDICATING & TEST SWITCH, MH = 84"AFF MIN, COORDINATE LOCATION WITH FIRE DEPARTMENT
AOM	ADDRESSABLE OUTPUT CONTROL MODULE
AIM	ADDRESSABLE INPUT MONITOR MODULE
AIO #	ADDRESSABLE INPUT/OUTPUT MODULE # = NUMBER OF INPUTS AND OUTPUTS
IM	ISOLATOR MODULE OR ISOLATOR BASE
SAP	SPRINKLER ALARM PANEL WITH DOOR TAMPER SWITCH CONNECTED TO FIRE ALARM SYSTEM
E	SPRINKLER ALARM BELL FURNISHED BY SPRINKLER CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
KB	LOCKED KEY BOX (KNOX BOX)
DH	DOOR HOLDER **
RI	CEILING MOUNTED REMOTE INDICATOR
RI	WALL MOUNTED REMOTE INDICATOR
	FIRE DAMPER *
S	FIRE/SMOKE DAMPER * COORDINATE LOCATION OF TEST SWITCH WITH FIRE DEPARTMENT PRIOR TO INSTALLATION.
S	SMOKE DAMPER * COORDINATE LOCATION OF TEST SWITCH WITH FIRE DEPARTMENT PRIOR TO INSTALLATION.
S	DUCT SMOKE DETECTOR COORDINATE LOCATION OF TEST SWITCH WITH FIRE DEPARTMENT PRIOR TO INSTALLATION.
W	WET ALARM VALVE - VALVE LOCATION INCLUDES FLOW & TAMPER SWITCH
D	DRY ALARM VALVE - VALVE LOCATION INCLUDES FLOW, TAMPER & PRESSURE SWITCH

DEMOLITION LEGEND

X	EXISTING EQUIPMENT OR DEVICE TO BE REMOVED
X	EXISTING EQUIPMENT OR DEVICE TO REMAIN XRL = EXISTING RELOCATED XRU = EXISTING BOX & CONDUIT REUSED XTR = EXISTING TO REMAIN XR = EXISTING TO BE REMOVED

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT *
C	CEILING MOUNTED
CUH	CABINET UNIT HEATER *
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN *
EHH	ELECTRICAL HANDHOLE
EMH	ELECTRICAL MANHOLE
FB	FAN BOX *
FIBO	FURNISHED AND INSTALLED BY OWNER/OTHERS
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
LOR	LOCATED ON ROOF
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DOOR **
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OD	OVERHEAD DOOR **
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PUH	PROPELLER UNIT HEATER *
RF	RETURN FAN *
RTU	ROOF TOP UNIT *
SF	SUPPLY FAN *
SPCP	SEWAGE PUMP CONTROL PANEL
S/S	START/STOP PUSH BUTTONS
S. STL	STAINLESS STEEL
THH	TELECOMMUNICATIONS HANDHOLE
TMH	TELECOMMUNICATIONS MANHOLE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VP	VANDAL PROOF
WPCP	WELL PUMP CONTROL PANEL
WG	WIRE GUARD
WP	WEATHER PROOF
WUH	WALL MOUNTED UNIT HEATER *
*	EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
**	EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

FIRE ALARM TRADE NOTES

FA-1 ALL FIRE ALARM AND ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND THE CURRENT NATIONAL ELECTRICAL CODE (NEC) BY ELECTRICIANS LICENSED BY THE STATE IN WHICH THE WORK IS PERFORMED.

FA-2 THE ELECTRICAL CONTRACTOR AND FIRE ALARM INSTALLER SHALL VERIFY THE EXACT LOCATION AND REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.

FA-3 WIRING FOR ALL SINGLE PHASE CIRCUITS, 20A OR SMALLER, SHALL BE A MINIMUM OF 2#12&1#12G-3/4"C., FOR CIRCUIT LENGTHS UNDER 100FT AND 2#10&1#10G-3/4"C., FOR CIRCUIT LENGTHS 100FT AND OVER, UNLESS OTHERWISE NOTED.

FA-4 MOUNTING HEIGHTS GIVEN FOR ALL FIRE ALARM DEVICES ARE TO THE CENTERLINE OF THE JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.

FA-5 REMOVE AND DISPOSE OF EXISTING FIRE ALARM EQUIPMENT AND ASSOCIATED BOXES, CONDUIT AND WIRE WHERE INDICATED OR WHERE LOCATED ON OR WITHIN WALLS AND CEILINGS BEING DEMOLISHED OR ALTERED AS A RESULT OF THIS CONTRACT, UNLESS OTHERWISE INDICATED. IT IS NOT THE INTENT OF THESE DRAWINGS TO INDICATE ALL FIRE ALARM AND ASSOCIATED ELECTRICAL ITEMS TO BE REMOVED.

FA-6 CIRCUIT WIRING INDICATED ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL NOT BE CONSIDERED TO BE POINT-TO-POINT, UNLESS OTHERWISE NOTED.

FA-7 EXISTING DEVICES AND PANELS THAT REMAIN SHALL BE RECIRCUITED, IF NECESSARY, TO ENSURE CONTINUED OPERATION.

FA-8 COORDINATE FINAL LOCATIONS OF CEILING MOUNTED DEVICES WITH REFLECTED CEILING PLANS AND ALL OTHER TRADE DRAWINGS PRIOR TO INSTALLATION.

FA-9 PROVIDE AND ENSURE FIREPROOFING OF ALL CONDUIT, CABLING AND ANY OTHER ELECTRICAL AND FIRE ALARM DEVICES THROUGH FIRE RATED ASSEMBLIES.

FA-10 PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.

FA-11 PROVIDE EXPANSION FITTINGS IN CONDUIT RISERS FROM ALL EXTERIOR UNDERGROUND CONDUITS TO FIXED EQUIPMENT OR CONDUIT FITTINGS AND PROVIDE FLEXIBLE CONNECTIONS TO ANY EQUIPMENT SUBJECT TO SETTLEMENT OR FROST HEAVES. PROVIDE FLEXIBLE CONNECTIONS ON CONDUITS CROSSING BUILDING EXPANSION JOINTS.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO: NFPA, IBC, UL, SMACNA, OSHA, AND NEC.

G-3 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 INFORMATION ON THESE DRAWINGS PERTAINING TO AS-BUILT CONSTRUCTION AND OTHER EXISTING CONDITIONS HAVE BEEN OBTAINED FROM OTHER DOCUMENTATION OR BY FIELD INVESTIGATION. (SEE GENERAL AND SUPPLEMENTAL CONDITIONS FOR LISTING). THIS INFORMATION IS PROVIDED FOR THE CONTRACTOR'S BENEFIT IN PERFORMANCE OF THE WORK.

G-9 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.

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RFS Project #: 9963.003

REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
PROGRESS SET
04/03/2024

SHEET NAME
FIRE ALARM LEGEND ABBREVIAITONS & NOTES

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: FPW	DATE: 04/03/2024
CHECKED: AMS	SCALE: NO SCALE

DRAWING NO.:

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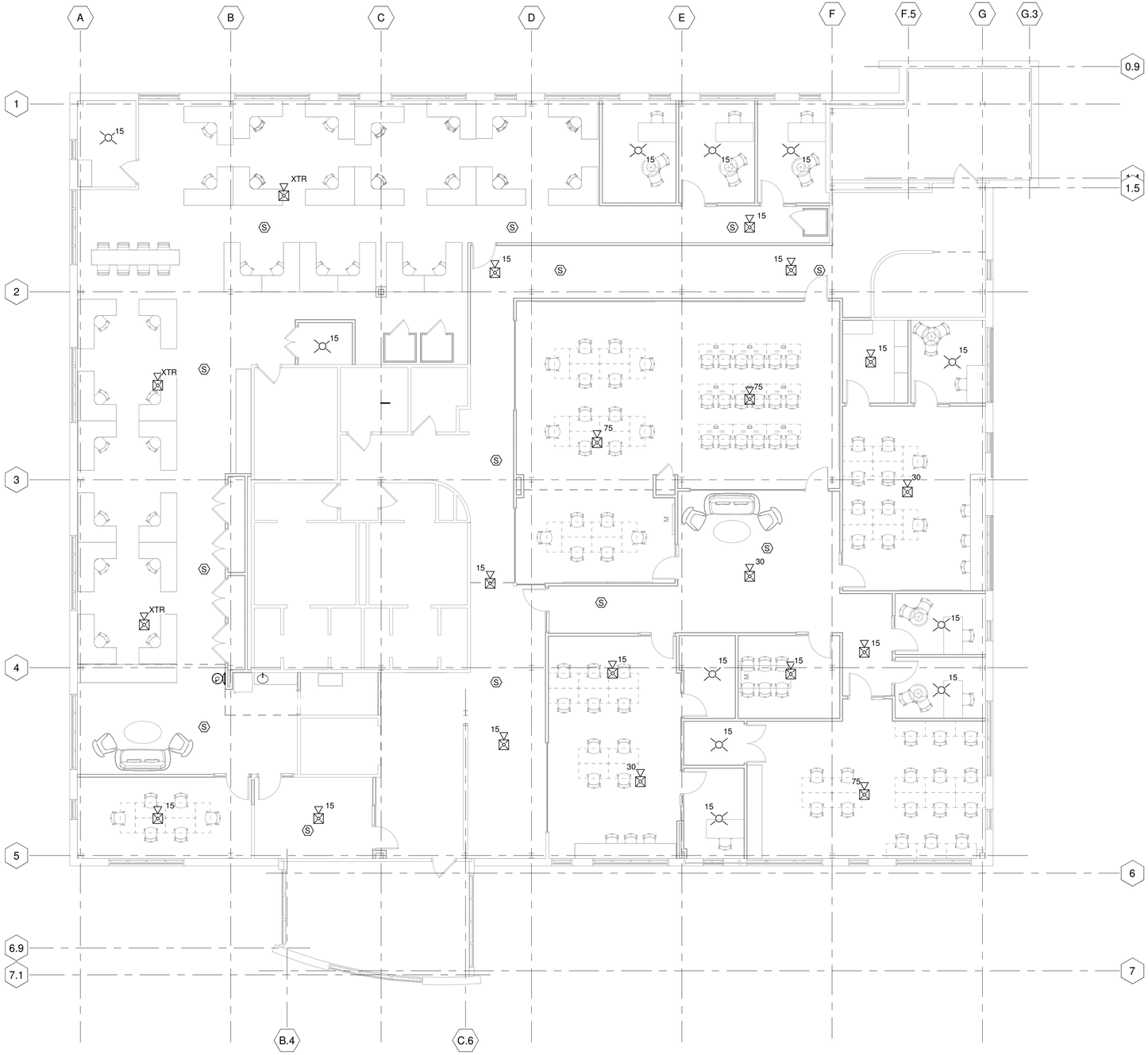

1 LEVEL 2 - FIRE ALARM PLAN
1/8" = 1'-0"

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REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
PROGRESS SET
04/03/2024

SHEET NAME
LEVEL 2 FIRE ALARM

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: FPW	DATE: 04/03/2024
CHECKED: AMS	SCALE: 1/8" = 1'-0"

DRAWING NO.:

FA100

MECHANICAL LEGEND

CO	CLEANOUT
(NAME)	NEW PIPING (BOLD)
(NAME)	NEW DUCTWORK (BOLD)
(NAME)	EXISTING DUCTWORK (LIGHT)
(NAME)	EXISTING PIPING (LIGHT)
	DEMOLITION PIPING
	COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
C	CONDENSATE
	BRANCH OUT OF TOP OF MAIN
	BRANCH OUT OF BOTTOM OF MAIN
	COMBINATION PRESSURE/ TEMPERATURE PORT
	FLANGE
	PIPE RISING
	PIPE TURNING DOWN
	TEE TURNED DOWN
	TEE TURNED UP
	CAP
	UNION
	COMBINATION CALIBRATED BALANCING/ SHUTOFF VALVE
	BALL VALVE
	STRAINER W/ BLOW DOWN VALVE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PRESSURE GAUGE
	2-WAY CONTROL VALVE
	TEMPERATURE SENSOR

DN	DROP IN DUCT (IN DIRECTION OF AIRFLOW)
UP	RISE IN DUCT (IN DIRECTION OF AIRFLOW)
FC	DUCT FLEX CONNECTION
	RETURN AIR DUCT DOWN
	RETURN AIR DUCT UP
R D	RISE/DROP IN DUCT (IN DIRECTION OF AIRFLOW)
	SUPPLY AIR DUCT DOWN
	SUPPLY AIR DUCT UP
	DEMOLITION DUCTWORK
	FIRE DAMPER W/ ACCESS DOOR
S	SMOKE DAMPER W/ ACCESS DOOR
S	COMBINATION FIRE/ SMOKE DAMPER W/ ACCESS DOOR
SD	SMOKE DETECTOR
	VOLUME CONTROL DAMPER
M	MOTOR OPERATED DAMPER
	TURNING VANES
	FULL SPLITTER VANES
X" Ø	ROUND DUCT ("X" INDICATES DIAMETER)
W" / H"	OVAL DUCT ("X" INDICATES DIAMETER)
	DESIGNATES EQUIPMENT WITH POWER
OR	DESIGNATES EQUIPMENT WITHOUT POWER

DIFFUSER/REGISTER/GRILLE AIR PATTERNS
(SHADING INDICATES QUADRANT WITHOUT AIR)

	4 WAY
	3 WAY
	2 WAY
	2 WAY CORNER
	1 WAY
	REGISTER/GRILLE
	LINEAR DIFFUSER

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CONDENSATE
CAPC	CAPACITY
CFM	CUBIC FEET PER MINUTE
C.O.	CLEAN OUT
COND	CONDENSER; CONDENSATE
CONN	CONNECTION
COP	COEFFICIENT OF PERFORMANCE
CUH	CABINET UNIT HEATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CV	CONSTANT VOLUME BOX
D	DEPTH
DB	DRY BULB
°F	DEGREES FAHRENHEIT
DIA	DIAMETER
DN	DOWN
DPS	DIFFERENTIAL PRESSURE SENSOR
EA	EXHAUST AIR; EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRIC; ELECTRICAL
ELEV	ELEVATION
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
FC	FLEXIBLE CONNECTOR
FLA	FULL LOAD AMPS
FOT	FLAT ON TOP
FPF	FINS PER FOOT
FPM	FEET PER MINUTE
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLONS
H	HEIGHT, HIGH
HD	HEAD
HGT	HEIGHT
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ
IN	INCHES
KW	KILOWATT
L	LENGTH, LOUVER
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LF	LINEAR FOOT
LR	LINEAR RETURN
LRA	LOCKED ROTOR AMPS
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
MTG	MOUNTING
MTR	MOTOR
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED; NOISE CRITERIA
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTDOOR AIR TEMPERATURE
OED	OPEN END DUCT
O.C.	ON CENTER
PD	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
REQ'D	REQUIRED
RH	RELATIVE HUMIDITY
RG	RETURN GRILLE
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR; SOUND ATTENUATOR
SD	SUPPLY DIFFUSER
SENS	SENSIBLE
SF	SQUARE FEET; SUPPLY FAN
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
VEL	VELOCITY
VLT	VOLTS
VOL	VOLUME
W	WIDTH
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WSHP	WATER SOURCE HEAT PUMP

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, NFPA, ICC, UL, SMACNA, OSHA, AND NEC.

G-3 CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

MECHANICAL TRADE NOTES

1. REFER TO GENERAL NOTES ON THIS DRAWING FOR ADDITIONAL INFORMATION.
2. COORDINATE LOCATIONS OF ALL MECHANICAL EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES.
3. CONTRACTOR SHALL MAINTAIN MINIMUM REQUIRED WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT PER CURRENT NATIONAL ELECTRIC CODE.
4. CONTRACTOR SHALL PROVIDE SLEEVES WHEREVER PIPING OR DUCTWORK PENETRATES ANY WALL, FLOOR, CEILING AND/OR ROOF.
5. ALL PENETRATIONS THROUGH WALLS, FLOORS, CEILINGS AND/OR ROOFS SHALL BE EITHER CORE DRILLED OR SAW CUT - CHISELED OR HAMMERED PENETRATIONS ARE NOT ALLOWED.
6. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. CAREFUL LAYOUT, COORDINATION AND INSTALLATION OF MECHANICAL SYSTEMS IS ESSENTIAL. COORDINATION WITH ELECTRICAL SYSTEMS AND ARCHITECTURAL FEATURES IS REQUIRED TO ACHIEVE A NEAT AND ORDERLY INSTALLATION.
7. COORDINATE CEILING AIR OUTLET AND INLET LOCATIONS WITH THE ARCHITECT'S CEILING PLANS, LIGHTING LAYOUT, AND OTHER CEILING MOUNTED FEATURES. MAINTAIN REQUIRED CLEARANCES BETWEEN AIR OUTLETS AND SMOKE DETECTORS.
8. RUN ALL DUCTWORK, PIPING AND WIRING NEATLY AND SQUARE WITH ALL BUILDING FEATURES.
9. WHERE DUCTWORK OR PIPING PENETRATE A FIRE RATED WALL, FLOOR, CEILING AND/OR ROOF, SUITABLE FIRE-STOP MATERIAL SHALL BE PROVIDED BY THIS CONTRACTOR. (SEE FIRE-STOPPING REQUIREMENTS BELOW.)
10. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCESS DOORS OR PANELS WHERE REQUIRED IN WALLS, CEILING AND FLOORS TO PROVIDE READY ACCESS TO ALL VALVES, VOLUME CONTROL DAMPERS, CLEANOUTS, AND OTHER DEVICES OR EQUIPMENT. COORDINATE WITH THE CONSTRUCTION MANAGER AS REQUIRED.
11. DUCT SIZES SHOWN ON DRAWINGS ARE NET CLEAR INSIDE DIMENSIONS.
12. ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS.
13. NOTE THAT EXPOSED DUCTWORK AND PIPING HAS BEEN LAID OUT TO ACHIEVE A SPECIFIC VISUAL APPEARANCE; ALTERATIONS TO THE GENERAL LAYOUT REQUIRE ARCHITECT/ENGINEER APPROVAL.
14. DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.
15. REFER TO SUMMARY OF WORK SECTION IN THE SPECIFICATIONS FOR INFORMATION REGARDING PROJECT SEQUENCING, AND COORDINATION OF WORK WITH OWNER ACTIVITIES.
16. FIRE-STOPPING REQUIREMENTS:
    FIRE-RATED ASSEMBLIES INCLUDE SELECT WALLS, ALL FLOORS ABOVE GROUND LEVEL, AND SELECT ROOF AREAS. WHERE THE INSTALLATION OF MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT, AND APPURTENANCES PENETRATE OR OTHERWISE DISTURB THE INTEGRITY OF FIRE-RATED ASSEMBLIES, ALL REQUIRED FIRE-STOPPING (INCLUDING SLEEVES, DAMPERS, CAULK, PACKING, ETC. AS APPROPRIATE), SHALL BE THE RESPONSIBILITY OF THE MECHANICAL SUB-CONTRACTOR. FIRE STOPPING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH DIVISION 07 REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR INDICATION OF FIRE-RATED ASSEMBLIES. COORDINATE THE SEQUENCING OF ALL FIRE-STOPPING ACTIVITIES WITH THE CONSTRUCTION MANAGER.
17. THE MINIMUM HYDRONIC SYSTEM PIPE SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. RUN-OUT PIPING NOT IDENTIFIED ON THE DRAWINGS SHALL BE 3/4".
18. PROVIDE TAMPER-PROOF, FLUSH-MOUNTED TEMPERATURE SENSORS FOR THE FOLLOWING SPACES:
    - COMMON AREA TOILET ROOMS.
    - MECHANICAL EQUIPMENT ROOMS.
    - ELEVATOR MACHINE ROOMS.
    - STORAGE ROOMS.
    - ELECTRICAL ROOMS.
    - TELE-COM./DATA ROOMS.

MECHANICAL DEMOLITION NOTES

MD-1 AS INDICATED, COMPLETELY REMOVE EXISTING HVAC SYSTEMS, EQUIPMENT AND APPURTENANCES LOCATED IN THE PROJECT AREAS THAT ARE BEING RENOVATED TO THE LIMITS INDICATED ON THE PROJECT DRAWINGS, AND/OR AS LISTED IN THE PROJECT SPECIFICATIONS. THE OWNER MAY WISH TO SALVAGE CERTAIN ITEMS; CONSULT THE OWNER FOR FURTHER INSTRUCTIONS. ITEMS IDENTIFIED TO BE SALVAGED BY THE OWNER ARE TO BE CAREFULLY DISASSEMBLED AND REMOVED, AND TURNED OVER TO THE OWNER AS DIRECTED. ALL OTHER ITEMS REMOVED, BUT NOT DESIRED BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND BE TAKEN OFF-SITE FOR PROPER DISPOSAL.

MD-2 NO EXISTING MECHANICAL EQUIPMENT, SYSTEMS, APPURTENANCES, HANGERS, SUPPORTS, AIR TERMINAL DEVICES, AUTOMATIC CONTROLS, PNEUMATIC PIPE AND TUBING, VALVES, HANGERS,SUPPORTS, ASSOCIATED ELECTRICAL DEVICES, AND WIRING, ETC. INDICATED TO BE REMOVED, SHALL BE ABANDONED IN PLACE WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

MD-3 WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, THE REMOVAL OF MECHANICAL SYSTEM PIPING, MECHANICAL EQUIPMENT, DUCTWORK AND AIR TERMINAL DEVICES, AUTOMATIC CONTROLS, VALVES, HANGERS, SUPPORTS, ELECTRICAL DEVICES, WIRING, ETC.

MD-4 WHERE MECHANICAL EQUIPMENT OR APPURTENANCES ARE REMOVED WHICH WERE BUILT-IN TO EXISTING CONSTRUCTION, COORDINATE WITH THE CONSTRUCTION MANAGER TO PATCH AND/OR REPAIR ALL SUCH AREAS IN ACCORDANCE WITH APPROVED CONSTRUCTION METHODS AND FINISHES, AS DIRECTED BY THE CONTRACT DRAWINGS, SPECIFICATIONS, AND/OR THE ENGINEER AND THE OWNER.

MD-5 COORDINATE WITH THE CONSTRUCTION MANAGER AND ALL OTHER APPROPRIATE CONTRACTORS IN ORDER TO DETERMINE OVERALL PROJECT PHASING AND DEMOLITION WORK SEQUENCING. COORDINATE AND DIRECT DEMOLITION BY OTHER TRADES (INCLUDING ELECTRICAL AND CONTROLS CONTRACTORS) WHICH IS REQUIRED AS A RESULT OF MECHANICAL WORK DEMOLITION.

MD-6 WHERE PORTIONS OF EXISTING DUCTWORK ARE REMOVED, BUT PORTIONS OF THE AFFECTED SYSTEMS REMAIN ACTIVE, CAP AND/OR PATCH EXISTING TO REMAIN AS REQUIRED, AND SEAL AIRTIGHT. WHERE PORTIONS OF EXISTING PIPING ARE REMOVED, BUT PORTIONS OF THE AFFECTED SYSTEMS REMAIN ACTIVE, CAP AND SEAL EXISTING TO REMAIN AS REQUIRED.

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REGISTRATION

KEY PLAN
NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

ISSUES/REVISIONS

SHEET NAME
MECHANICAL LEGEND, NOTES & ABBREVIATIONS

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GOODY CLANCY PROJECT NUMBER: 23026
DRAWN: MSM DATE: 05/01/2024
CHECKED: EMK SCALE:
DRAWING NO.:

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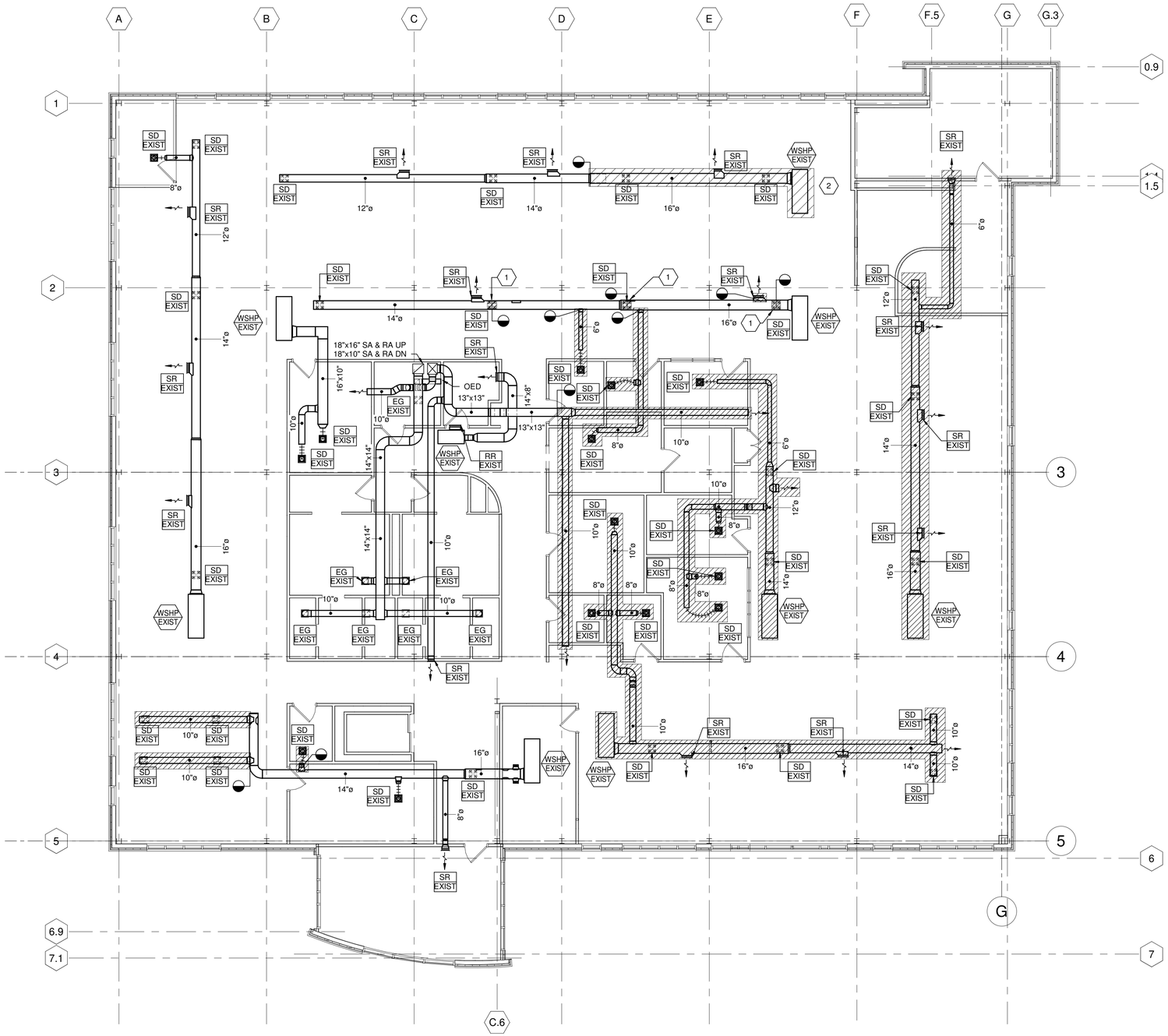

1 LEVEL 2 - MECHANICAL DUCTWORK DEMOLITION PLAN
1/8" = 1'-0"

KEYED DRAWING NOTES:

1. REMOVE EXISTING SUPPLY DIFFUSER AND ASSOCIATED BRANCH DUCTWORK BACK TO MAIN. PATCH OPENING IN EXISTING DUCTWORK.

2. DISCONNECT AND MAKE SAFE FOR REMOVAL EXISTING MECHANICAL EQUIPMENT. REMOVE EXISTING ASSOCIATED DUCTWORK AND PIPING. SWITCH TO THE OFF POSITION AND MAINTAIN FOR RE-USE.

DRAWING NOTES:

1. UNLESS OTHERWISE INDICATED, DUCTWORK SHALL BE SEALED AND PATCHED/CAPPED AT LIMIT OF REMOVAL.

2. PRIOR TO DEMOLITION OF MECHANICAL COMPONENTS, EACH UNIT SHALL BE RUN AND THE TEST AND BALANCING (TAB) CONTRACTOR SHALL MEASURE AIRFLOWS AT ALL ASSOCIATED SUPPLY AIR DIFFUSERS AND RETURN/TRANSFER AIR GRILLES. TAB REPORT SHALL BE SUBMITTED FOR ENGINEERING REVIEW PRIOR TO DISCONNECTING AND REMOVING MECHANICAL COMPONENTS. SUBMITTAL SHALL INCLUDE A FLOOR PLAN AIR INLET/OUTLE LOCATIONS AND ASSOCIATED AIRFLOWS

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SHEET NAME
LEVEL 2 - MECHANICAL DUCTWORK DEMOLITION PLAN

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GOODY CLANCY PROJECT NUMBER: 23026

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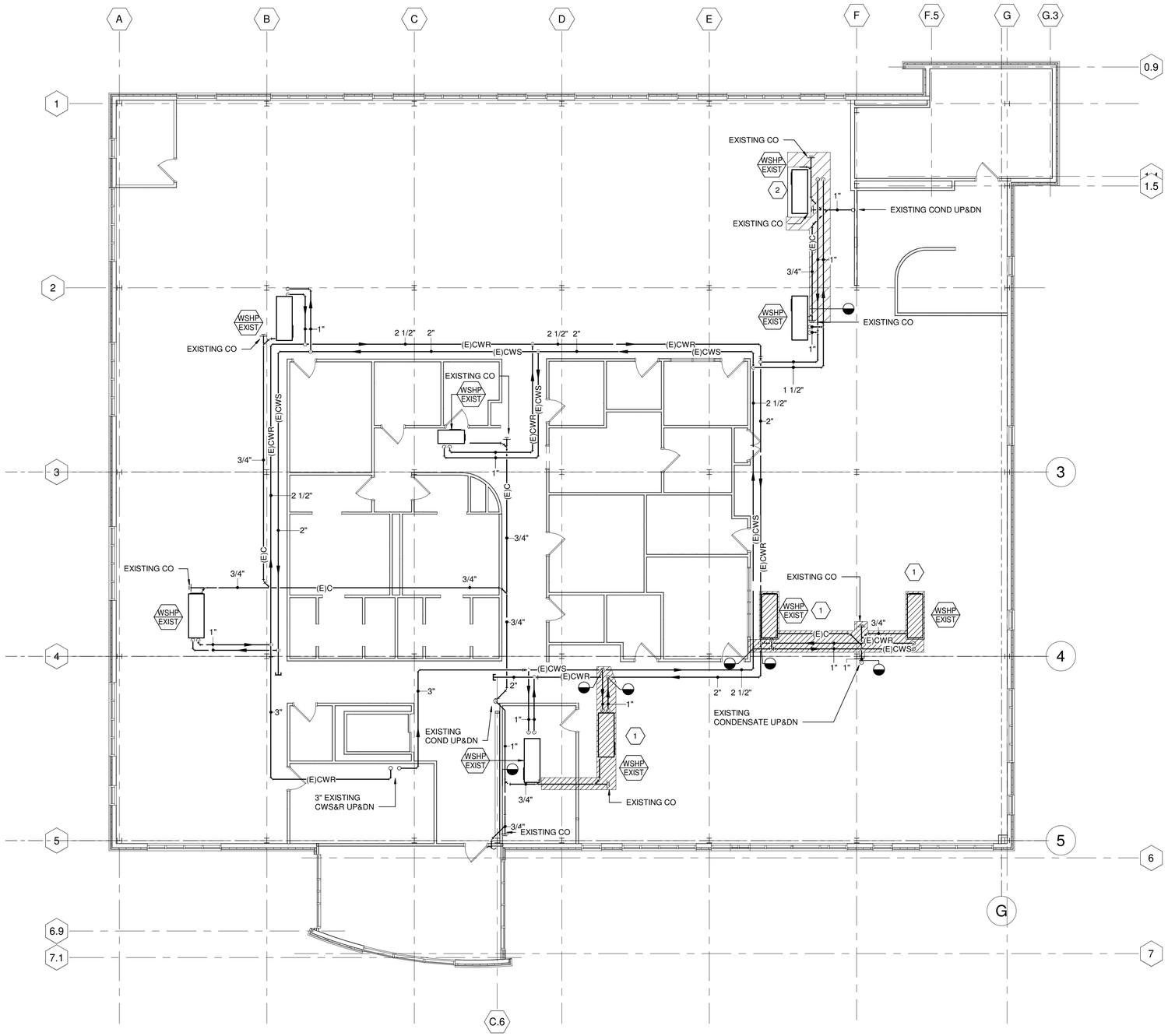

1 LEVEL 2 - MECHANICAL PIPING DEMOLITION PLAN
1/8" = 1'-0"

KEYED DRAWING NOTES:

1. REMOVE WSHP AND ASSOCIATED PIPING, HANGERS, APPURTENANCES, AND CONTROLS.
2. DISCONNECT AND MAKE SAFE FOR REMOVAL EXISTING MECHANICAL EQUIPMENT. REMOVE EXISTING ASSOCIATED DUCTWORK AND PIPING. SWITCH TO THE OFF POSITION AND MAINTAIN FOR RE-USE.

DRAWING NOTES:

1. UNLESS OTHERWISE INDICATED, PIPING SHALL BE VALVED AND CAPPED AT LIMIT OF REMOVAL.

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SHEET NAME
LEVEL 2 - MECHANICAL PIPING DEMOLITION PLAN

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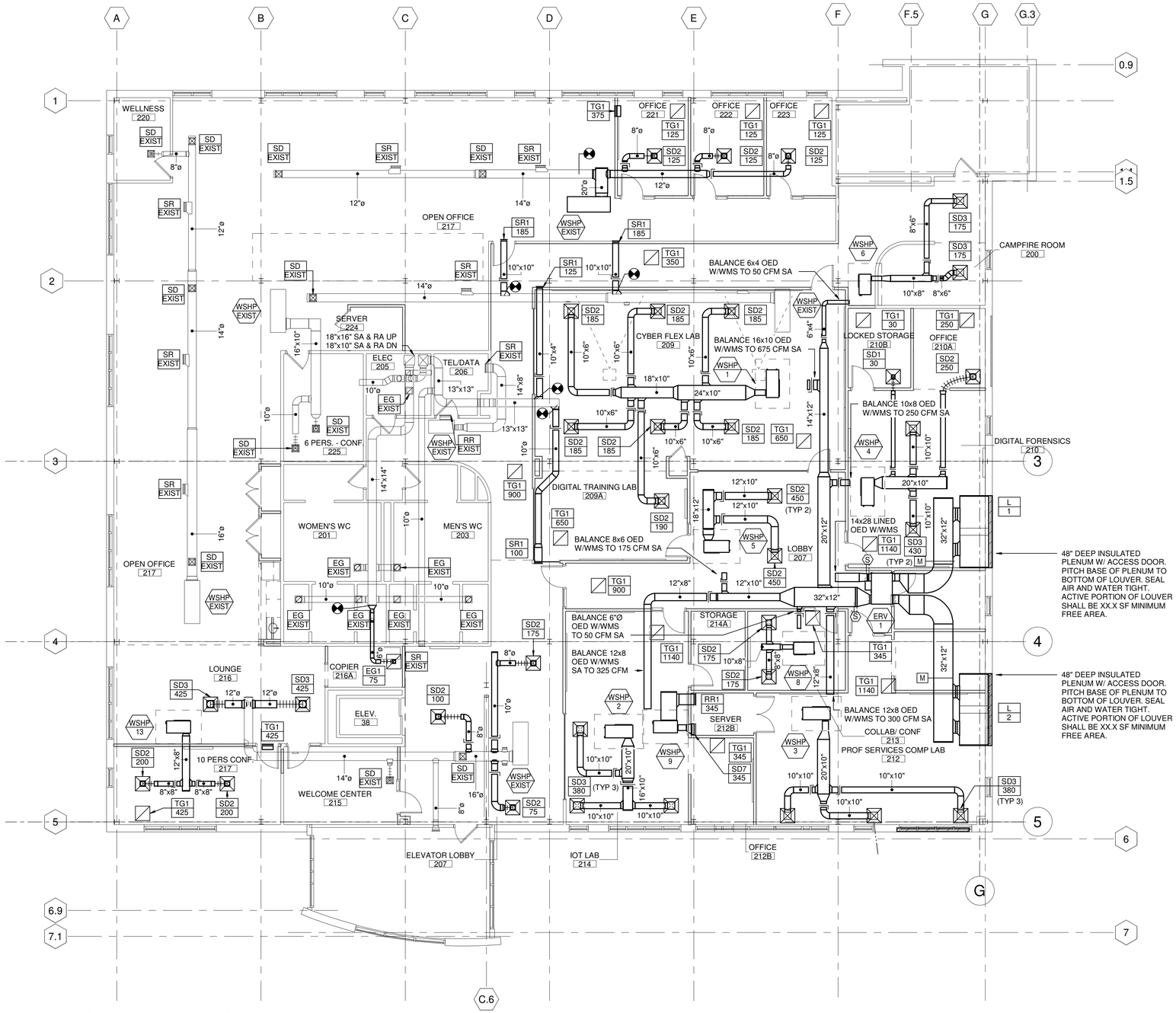
DRAWING NOTES

1. BALANCING SETPOINTS FOR EXISTING COMPONENTS WILL BE PROVIDED FOLLOWING REVIEW OF SUBMITTED PRE-BALANCING REPORT.
2. PRIOR TO DEMOLITION OF MECHANICAL COMPONENTS, EACH UNIT SHALL BE RUN AND THE TEST AND BALANCING (TAB) CONTRACTOR SHALL MEASURE AIRFLOWS AT ALL ASSOCIATED SUPPLY AIR DIFFUSERS AND RETURN/TRANSFER AIR GRILLES. TAB REPORT SHALL BE SUBMITTED FOR ENGINEERING REVIEW PRIOR TO DISCONNECTING AND REMOVING MECHANICAL COMPONENTS. SUBMITTAL SHALL INCLUDE A FLOOR PLAN AIR INLET/OUTLE LOCATIONS AND ASSOCIATED AIRFLOWS



1 LEVEL 2 - MECHANICAL DUCTWORK PLAN
1/8" = 1'-0"

CHAMPLAIN COLLEGE

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05/01/2024

SHEET NAME
LEVEL 2 - MECHANICAL DUCTWORK PLAN

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GOODY CLANCY PROJECT NUMBER: 23026

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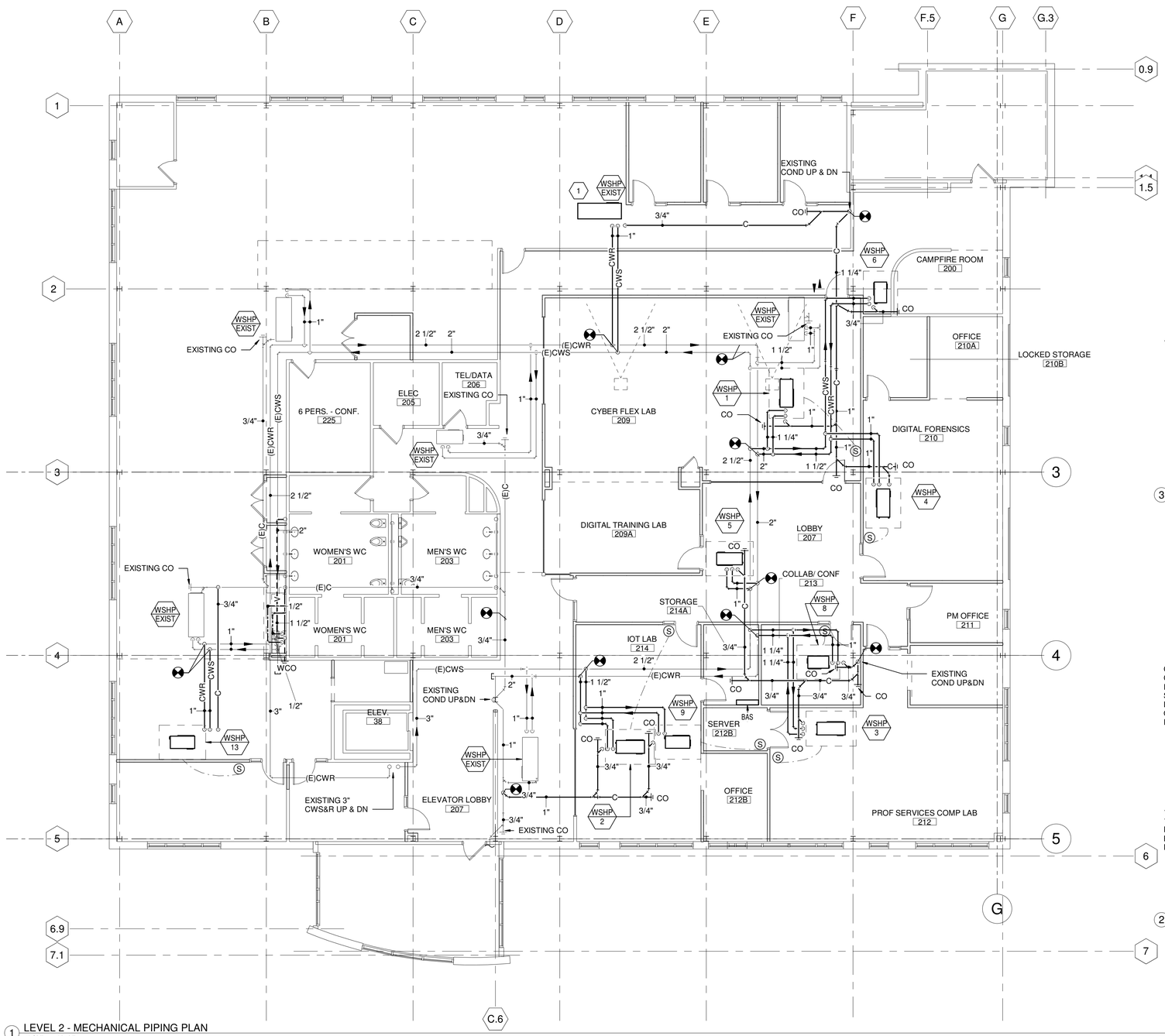
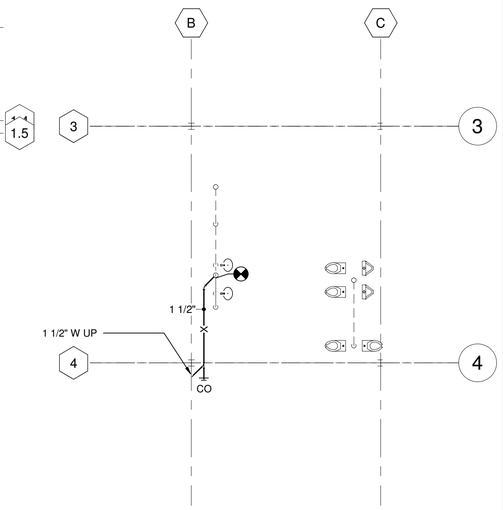


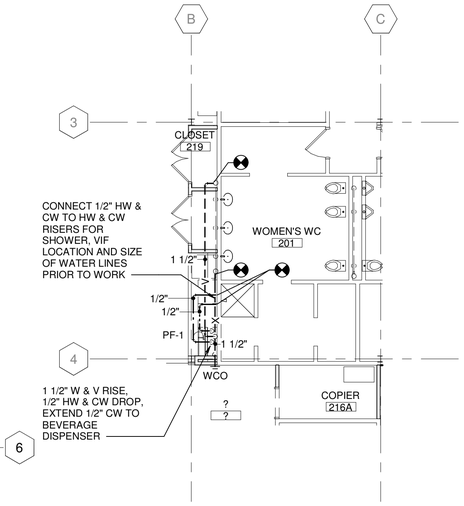
1 LEVEL 2 - MECHANICAL PIPING PLAN
1/8" = 1'-0"

KEYED DRAWING NOTES:

1 RELOCATED WSHP



3 LEVEL 1 PLUMBING PLAN
1/8" = 1'-0"



2 LEVEL 2 PLUMBING PLAN
1/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	WASTE	VENT	HW	CW	MTG HT AFF	DESCRIPTION
PF-1	UNDERMOUNT LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER	KOHLER CAXTON MODEL LT193G UNDERMOUNT ADA LAVATORY, VITREOUS CHINA, 15 3/8" DIA. BOWL. CHICAGO FAUCET MODEL 895-317GN2AE72XKAB, 4" CENTERS, 5 1/4" RIGID/SWING SPOUT, 1/4 TURN CERAMIC DISC CARTRIDGES, VANDAL PROOF 4" WRISTBLADE HANDLES, 0.5 GPM VANDAL PROOF PRESSURE COMPENSATING NON-AERATING LAMINAR FLOW OUTLET, POLISHED CHROME FINISH. ADA COMPLIANT.

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LEVEL 2 - MECHANICAL PIPING PLAN

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DRAWING NO.:

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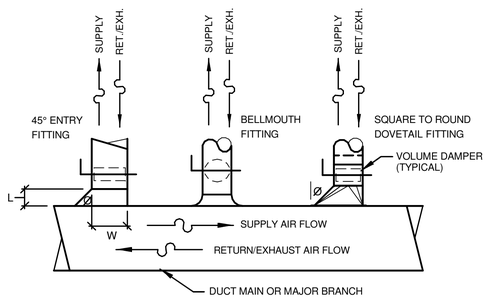
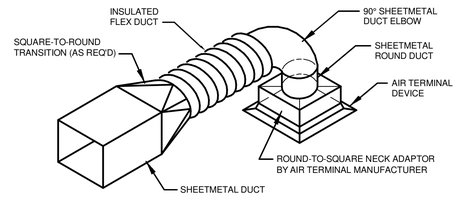


NOTES:
1. "SPIN-IN" TAKE-OFF FITTINGS, EXTRACTORS, SCOOPS, OR SPLITTER DAMPERS ARE NOT ACCEPTABLE.
2. ACCOUNT FOR DUCT HEIGHT WHEN SELECTING CONICAL OR BELLMOUTH BRANCH TAKE-OFF FITTINGS.
3. PROVIDE AIR BALANCING VOLUME DAMPER, W/ LOCKING QUADRANT & SHAFT SEALS, AT EACH BRANCH TAKE-OFF DOWNSTREAM OF VAV BOXES & AT ALL OTHER LOW PRESSURE BRANCHES. DO NOT PROVIDE VOLUME DAMPERS IN MEDIUM PRESSURE SUPPLY DUCTWORK UPSTREAM OF VAV BOXES.
4. L = W/4; L = 4" MINIMUM. Ø= 45°.
5. BELLMOUTH FITTINGS MAY BE ROUND, FLAT OVAL, OR RECTANGULAR.

TYPICAL DUCT BRANCH TAKE-OFFS

NTS

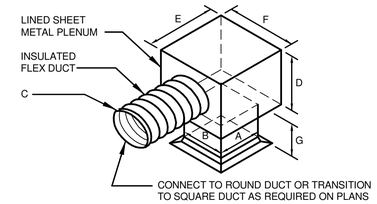


ROUND DUCT SIZE SCHEDULE			
DUCT SIZE	CFM RANGE	DUCT SIZE	CFM RANGE
4" DIA	0-35	14" DIA	501-700
5" DIA	0-65	16" DIA	701-900
6" DIA	0-110	18" DIA	901-1100
8" DIA	111-225	20" DIA	1101-1400
10" DIA	226-350	22" DIA	1401-1600
12" DIA	351-500	24" DIA	1601-1900

NOTES:
1. FLEX DUCT SHALL BE A MAXIMUM OF 3'-0" LONG WITH NO BENDS EXCEEDING 15° OFFSET FROM CENTERLINE OF DUCTS BEING JOINED.
2. SUPPORT AIR TERMINAL DEVICE INDEPENDENT OF CEILING. PROVIDE AIR TERMINAL W/ APPROPRIATE FRAME TYPE(S) FOR CEILING(S). COORDINATE AIR TERMINALS W/ ARCHITECTURAL CEILING PLAN, AND/OR GENERAL CONTRACTOR.
3. DIRECT FLEXIBLE DUCT TO DIFFUSER CONNECTIONS SHALL NOT BE PERMITTED. 90° FLEX DUCT ELBOWS SHALL NOT BE PERMITTED.
4. INSTALL AIR TERMINAL DEVICES FLUSH TO CEILING W/ CONCEALED MOUNTING & SUPPORT HARDWARE.

AIR TERMINAL CONNECTION DETAIL

NTS

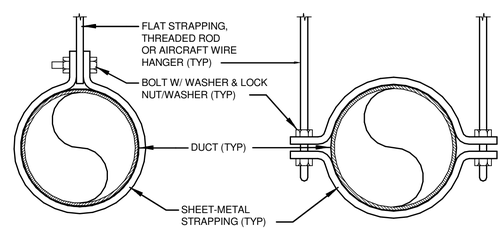


A	B	MAX CFM	C	D	E	F	G
6"	6"	35	4 DIA	6"	10"	10"	4"
6"	6"	110	6 DIA	8"	10"	10"	4"
9"	9"	280	8 DIA	12"	13"	13"	4"
12"	12"	350	10 DIA	14"	16"	16"	4"
14"	14"	500	12 DIA	16"	18"	18"	4"
16"	16"	700	14 DIA	18"	20"	20"	4"

NOTES:
1. FLEX DUCT SHALL BE A MAXIMUM OF 3'-0" LONG WITH NO BENDS EXCEEDING 15° OFFSET FROM CENTERLINE OF DUCTS BEING JOINED.
2. SUPPORT AIR TERMINAL DEVICE INDEPENDENT OF CEILING. PROVIDE AIR TERMINAL W/ APPROPRIATE FRAME TYPE(S) FOR CEILING(S). COORDINATE AIR TERMINALS W/ ARCHITECTURAL CEILING PLAN, AND/OR GENERAL CONTRACTOR.
3. DIRECT FLEXIBLE DUCT TO DIFFUSER CONNECTIONS SHALL NOT BE PERMITTED. 90° FLEX DUCT ELBOWS SHALL NOT BE PERMITTED.
4. INSTALL AIR TERMINAL DEVICES FLUSH TO CEILING W/ CONCEALED MOUNTING & SUPPORT HARDWARE.

PLENUM AIR TERMINAL CONNECTION DETAIL

NTS



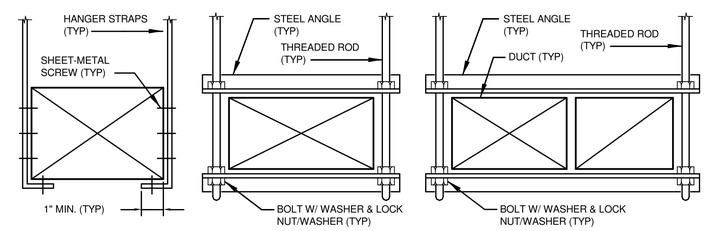
SUPPORT FOR DUCTS 6"DIA TO 12"DIA

SUPPORT FOR DUCTS 14"DIA & LARGER AND FLAT OVAL DUCTWORK

NOTES:
1. SELECT AND INSTALL HANGERS AND SUPPORTS AS PER SMACNA DUCT CONSTRUCTION STANDARDS IN ACCORDANCE WITH THE PRESSURE CLASSIFICATION OF EACH DUCT SYSTEM. HANGERS SHALL BE THREADED ROD OR AIRCRAFT WIRE WHERE DUCTWORK IS EXPOSED TO VIEW. PROVIDE LATERAL OR SEISMIC BRACING AS APPROPRIATE TO THE INSTALLATION (REFER TO PROJECT SPECIFICATIONS).
2. ATTACH HANGERS TO BUILDING STRUCTURE VIA BEAM CLAMPS, EXPANSION ANCHORS, AND/OR CONCRETE INSERTS, AS APPROPRIATE TO THE APPLICATIONS. SUPPORT DUCTS AT 8 FT. O.C. MIN.
3. WHERE BELOW AMBIENT TEMPERATURE AIR IS CONVEYED IN THE DUCTWORK (I.E., SUPPLY AIR OR OUTSIDE AIR), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE SUPPORTS AND HANGERS TO A POINT AT LEAST 6" CLEAR OF THE DUCT INSULATION. (APPLIES TO CONCEALED INSULATED DUCTWORK; DOES NOT APPLY TO UNINSULATED EXPOSED DUCTWORK.)
4. DUCT REINFORCEMENT MAY BE USED FOR ATTACHMENT AND SUPPORT PROVIDED IT QUALIFIES FOR BOTH DUTIES, AND DUCT STRENGTH IS NOT COMPROMISED BY USING REINFORCEMENT FOR SUPPORT.
5. SUBMIT DUCT SUPPORT DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

ROUND & FLAT OVAL DUCTWORK SUPPORT DETAIL

NTS



LOW PRESSURE DUCTS LESS THAN 60" WIDE

MEDIUM & LOW PRESSURE DUCTS 60" WIDE & GREATER

MULTIPLE DUCTS ON TRAPEZE HANGERS

NOTES:
1. SELECT AND INSTALL HANGERS AND SUPPORTS AS PER SMACNA DUCT CONSTRUCTION STANDARDS IN ACCORDANCE WITH THE PRESSURE CLASSIFICATION OF EACH DUCT SYSTEM. HANGERS SHALL BE THREADED ROD, STRAPPING OR ANGLE WHERE DUCTWORK IS EXPOSED TO VIEW. PROVIDE LATERAL OR SEISMIC BRACING AS APPROPRIATE TO THE INSTALLATION (REFER TO PROJECT SPECIFICATIONS).
2. ATTACH HANGERS TO BUILDING STRUCTURE VIA BEAM CLAMPS, EXPANSION ANCHORS, AND/OR CONCRETE INSERTS, AS APPROPRIATE TO THE APPLICATIONS. SUPPORT DUCTS AT 8 FT. O.C. MIN
3. WHERE BELOW AMBIENT TEMPERATURE AIR IS CONVEYED IN THE DUCTWORK (I.E., SUPPLY AIR OR OUTSIDE AIR), INSULATION WITH A VAPOR BARRIER SHALL BE PROVIDED ON THE SUPPORTS AND HANGERS TO A POINT AT LEAST 6" CLEAR OF THE DUCT INSULATION. (APPLIES TO CONCEALED INSULATED DUCTWORK; DOES NOT APPLY TO UNINSULATED EXPOSED DUCTWORK.)
4. PROVIDE INTERMEDIATE SUPPORT WHERE TRAPEZE HANGERS EXCEED 72" IN LENGTH.
5. DUCT REINFORCEMENT MAY BE USED FOR ATTACHMENT AND SUPPORT PROVIDED IT QUALIFIES FOR BOTH DUTIES, AND DUCT STRENGTH IS NOT COMPROMISED BY USING REINFORCEMENT FOR SUPPORT.
6. SUBMIT DUCT SUPPORT DETAILS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

RECTANGULAR DUCTWORK SUPPORT DETAIL

NTS

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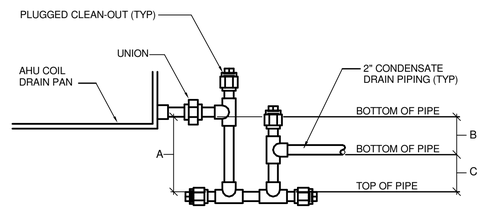
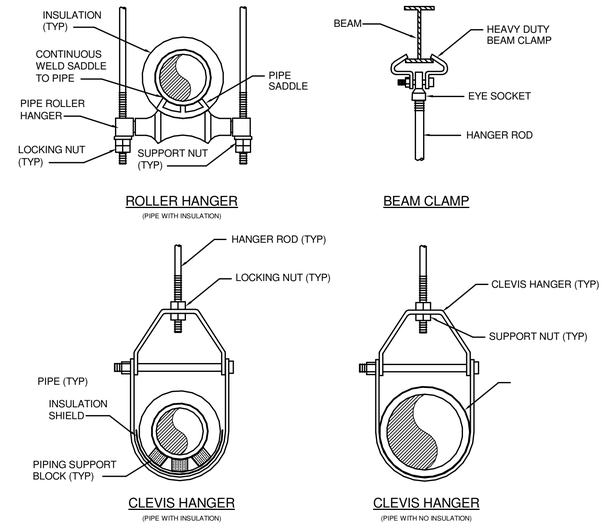


A = B + C (5 1/2" MINIMUM)
B = (CASING S.P.) + 1"
C = B/2

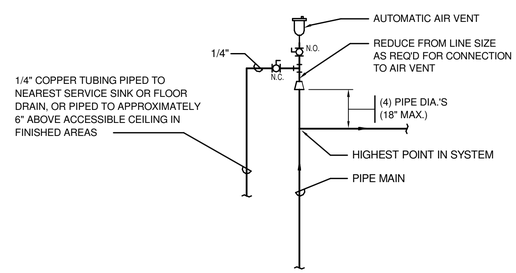
NOTES:
1. PITCH ALL CONDENSATE DRAIN PIPING DOWN TOWARDS ITS OUTLET AT 1/8" PER FOOT (MINIMUM).
2. PROVIDE PLUGGED CLEAN-OUTS AT EACH 90° CHANGE IN DIRECTION.
3. INSTALL DRAIN PIPING PER MANUFACTURER'S RECOMMENDATIONS.
4. PRIME CONDENSATE DRAIN TRAPS WITH WATER PRIOR TO START-UP.

DRAW-THRU COIL DRAIN PAN TRAP DETAIL
NTS



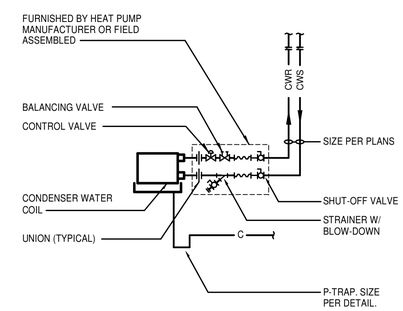
NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION, FOR HANGER SPACING, AND FOR APPLICATION REQUIREMENTS.
2. SUPPORT HORIZONTAL PIPING AS REQUIRED. ANCHOR PIPING AND PROVIDE EXPANSION COMPENSATION AND SEISMIC BRACING AS APPROPRIATE.
3. MULTIPLE HORIZONTAL PIPE RUNS MAY BE SUPPORTED ON COMMON TRAPEZE HANGER ASSEMBLIES PROVIDED HANGERS AND HORIZONTAL SUPPORTS ARE PROPERLY SIZED FOR THE LOADS INVOLVED. ENGINEER REVIEW OF TRAPEZE HANGERS IS REQUIRED.

PIPE SUPPORT DETAILS
NTS



NOTE:
1. DETAIL APPLIES TO ALL PIPE SIZES.

WATER SYSTEM HIGH POINT VENT DETAIL
NTS



WATER SOURCE HEAT PUMP PIPING DETAIL
NTS

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WATER SOURCE HEAT PUMP SCHEDULE - WSHP

SYMBOL	NUMBER	SERVES	SUPPLY FAN DATA			AIR SIDE							WATER SIDE									EFFICIENCY		ELECTRICAL DATA				REMARKS
						COOLING				HEATING			SUMMER		WINTER													
			CFM	ESP (IN W.C.)	FAN MOTOR HP	EAT (DB/WB)	LAT (DB/WB)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT (DB)	LAT (DB)	SENSIBLE CAPACITY (MBH)	EWT (DEG F)	LWT (DEG F)	EWT (DEG F)	LWT (DEG F)	FLUID	FLOW RATE (GPM)	MAX PD (FT W.C.)	REFRIGERANT TYPE	REFRIGERANT CHARGE (OZ)	AHRI EER	AHRI COP	VOLT	PHASE	MCA	MFS	
WSHP	1	247 CYBER FLEX LAB, 247A DIGITAL TRAINING LAB	1300	0.5	0.5	75/63	56.2/53.7	34.5	26.3	70	98.0	39.4	85	94.5	60	53.3	WATER	9.0	8.2	R-410A	49.0	16.0	5.2	460	3	11.3	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 036
WSHP	2	243 IOT LAB, 243A OFFICE, 243B STORAGE	1140	0.5	0.5	75/63	55.9/54.1	29.0	23.4	70	97.6	34.1	85	94.5	60	53.0	WATER	7.6	5.8	R-410A	48.0	15.9	5.3	460	3	9.4	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 030
WSHP	3	245 PROF SERVICES COMP LAB	1140	0.5	0.5	75/63	55.9/54.1	29.0	23.4	70	97.6	34.1	85	94.5	60	53.0	WATER	7.6	5.8	R-410A	48.0	15.9	5.3	460	3	9.4	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 030
WSHP	4	246 DIGITAL FORENSICS, 246B LOCKED STORAGE	1140	0.5	0.5	75/63	55.9/54.1	29.0	23.4	70	97.6	34.1	85	94.5	60	53.0	WATER	7.6	5.8	R-410A	48.0	15.9	5.3	460	3	9.4	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 030
WSHP	5	241 LOBBY, 244 PM OFFICE	900	0.5	0.33	75/63	56.0/54.1	25.9	20.3	70	96.6	25.9	85	94.2	60	53.4	WATER	6.2	4.7	R-410A	39.5	15.2	5.0	460	3	7.0	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 024
WSHP	6	CORRIDOR, 200 CAMPFIRE ROOM	345	0.5	0.1	75/63	57.1/55.6	7.3	6.7	70	94.8	9.3	85	93.9	60	53.2	WATER	2.1	7.7	R-410A	20.0	13.4	4.6	208	1	5.2	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 007
WSHP	8	242 COLLAB/CONFERENCE	345	0.5	0.1	75/63	57.1/55.6	7.3	6.7	70	94.8	9.3	85	93.9	60	53.2	WATER	2.1	7.7	R-410A	20.0	13.4	4.6	208	1	5.2	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 007
WSHP	9	245B SERVER	425	0.5	0.1	75/63	54.8/52.6	12.4	9.2	70	102.3	14.8	85	95.6	60	52.6	WATER	3.0	10.2	R-410A	34.0	12.7	4.3	208	1	7.9	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 012
WSHP	13	243T CONFERENCE ROOM	425	0.5	0.1	75/63	54.8/52.6	12.4	9.2	70	102.3	14.8	85	95.6	60	52.6	WATER	3.0	10.2	R-410A	34.0	12.7	4.3	208	1	7.9	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, SIZE 012

1. SELECTION BASED ON DAIKIN ENFINITY HORIZONTAL WATER SOURCE HEAT PUMP.
2. WITH CUPRONICKEL HEAT EXCHANGER.
3. WITH 2" FILTER RACK AND 2" MERV-13 FILTERS.
4. COORDINATE LEFT HAND VS RIGHT HAND UNIT CONFIGURATION WITH FLOOR PLANS.
5. COORDINATE DISCHARGE CONFIGURATION WITH FLOOR PLANS.
6. COORDINATE RETURN AIR CONFIGURATION WITH FLOOR PLANS.
7. WITH STAINLESS STEEL DRAIN PAN.
8. WITH UNIT MOUNTED NON-FUSED DISCONNECT.
9. UNIT SHALL INTERFACE WITH THE EXISTING BUILDING AUTOMATION SYSTEM. COORDINATE CONTROLS REQUIREMENTS WITH SPECIFICATION SECTION 239750.
10. WITH ECM MOTOR.

ENERGY RECOVERY VENTILATOR SCHEDULE - ERV

SYMBOL	NUMBER	LOCATION	SERVES	SUPPLY FAN DATA					EXHAUST/RETURN FAN DATA				WINTER CONDITIONS				SUMMER CONDITIONS					FILTER TYPE & EFFICICENCY	ELECTRICAL DATA					REMARKS
				AIRFLOW (CFM)	MIN. O.A. (CFM)	ESP (IN W.C.)	DRIVE TYPE	FAN MOTOR HP	AIRFLOW (CFM)	ESP (IN W.C.)	DRIVE TYPE	FAN MOTOR HP	OA EAT (DB/WB)	OA LAT (DB/WB)	EA EAT (DB/WB)	CAPACITY (MBH)	OA EAT (DB/WB)	OA LAT (DB/WB)	EA EAT (DB/WB)	CAPACITY (MBH)	EXCHANGER TYPE		VOLTAGE	PHASE	FLA (PER MOTOR)	MCA	MOPD	
ERV	1	243B STORAGE	LEAHY CENTER VENTILATION	2,000	2,000	0.75	DIRECT	2.0	2,000	0.75	DRIVE	2.0	-7		70/58.6		83.0/68.6		75/63		STATIC ENTHALPY PLATE	2" MERV-13	460	3	2.9	7.2	15	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, MODEL HE2XINV

1. SELECTION BASED ON RENEWAIRE.
2. WITH VARIABLE SPEED ECM MOTORS (BOTH AIR STREAMS).
3. WITH ENTHALPY CORE.
4. WITH CLASS 1 LOW LEAKAGE MOTORIZED ISOLATION DAMPERS (BOTH AIR STREAMS).
5. WITH FACTORY MOUNTED FILTER ALARMS (BOTH AIR STREAMS).
6. WITH FUSED DISCONNECT.
7. WITH MOTOR SHAFT GROUNDING RINGS.
8. WITH MERV-13 FILTERS
9. DOUBLE WALL CONSTRUCTION.
10. WITH PACKAGED CONTROLS AND BAS INTERFACE. REFER TO SPECIFICATION SECTION 239750 FOR ADDITIONAL INFORMATION.

LOUVER SCHEDULE - L

SYMBOL	NUMBER	SERVES	MAX CFM	DIMENSIONS (W x H) (IN)	VELOCITY (FPM)	MAX PRESSURE DROP (IN WC)	FREE AREA (SF)	REMARKS
L	1	ERV-1 INTAKE	2,000	120x12	534	0.05	3.74	1, 2, 3, 4, 5, 6, 7, MODEL ESD-403
L	2	ERV-1 EXHAUST	2,000	120x12	534	0.04	3.74	1, 2, 3, 4, 5, 6, 7, MODEL ESD-403

1. SELECTION BASED ON GREENHECK.
2. WITH TYPE "X" BIRDSCREEN.
3. WITH AAMA 2605 FINISH (70% KYNAR, 2 COATS), OR EQUAL.
4. CUSTOM COLOR SELECTED BY THE ARCHITECT.
5. VELOCITY BASED ON ACTIVE PORTION OF THE LOUVER.
6. FREE AREA BASED ON TOTAL AREA OF THE LOUVER.
7. WITH CONCEALED FASTENERS.

DIFFUSER, REGISTER, & GRILLE SCHEDULE - DD, EG, LD, RG, SD, TG

SYMBOL	NUMBER	UNIT SIZE W x H	NECK SIZE W x H	CFM RANGE	MODEL	BLOW PATTERN	MOUNTING TYPE	REMARKS
TG	1	24 x 24	24 x 24	0-1200	630	45 DEGREE		
SR	1	10 x 10	10 x 10	0-360	620	45 DEGREE		
SD	1	24 x 24	6 x 6	0-125	AMD	4-WAY		
SD	2	24 x 24	9 x 9	126-250	AMD	4-WAY		
SD	3	24 x 24	12 x 12	251-480	AMD	4-WAY		
RR	1	18 x 8	18 x 8	270-540	630	45 DEGREE		
EG	1	24 x 24	6 x 6	0-125	AMD	4-WAY		

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REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

ISSUES/REVISIONS

SHEET NAME
MECHANICAL SCHEDULES

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: MSM | DATE: 05/01/2024
CHECKED: EMK | SCALE:

DRAWING NO.:

M401

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LIGHTING LEGEND

PANEL-# A1 (E) a — LIGHT FIXTURE
REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
A1 = FIXTURE TYPE
a = SWITCHING OR DIMMING ZONE
PANEL-# = PANEL AND CIRCUIT #
(E) = FIXTURE CONNECTED TO EMERGENCY CIRCUIT
(N/L) = NIGHT LIGHT, WIRED CONSTANT ON
(E/N) = DUAL CIRCUIT - FIXTURE CONNECTED TO EMERGENCY AND NORMAL

PANEL-# A1 (E) a

EB1 PANEL-# — WALL MOUNTED EMERGENCY BATTERY FIXTURE
REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
EB1 = FIXTURE TYPE
PANEL-# = PANEL AND CIRCUIT #

X1 PANEL-# — WALL MOUNTED EXIT LIGHT
FILLED AREA INDICATES FACE LOCATION. PROVIDE WITH ARROW DIRECTION INDICATING CHEVRONS AS SHOWN ON PLANS. REFER TO TYPICAL DEVICE LOCATIONS, UON. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
X1 = FIXTURE TYPE
PANEL-# = PANEL AND CIRCUIT #
• = INTERNATIONAL SYMBOL OF ACCESSIBILITY

X1 PANEL-# — CEILING/PENDANT MOUNTED EXIT LIGHT
FILLED AREA INDICATES FACE LOCATION. PROVIDE WITH ARROW DIRECTION INDICATING CHEVRONS AS SHOWN ON PLANS. REFER TO TYPICAL DEVICE LOCATIONS, UON. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
X1 = FIXTURE TYPE
PANEL-# = PANEL AND CIRCUIT #
• = INTERNATIONAL SYMBOL OF ACCESSIBILITY

X1 LR1 PANEL-# a — LIGHTING CONTROL RELAY MODULE
20A DIMMING, WIRED, UNIVERSAL VOLTAGE, (0-10V) DIMMING, SYSTEM CONNECTED, WIRED FOR DIMMING U.O.N. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
a = SWITCHING OR DIMMING ZONE CONTROLLED
PANEL-# = PANEL AND CIRCUIT #

LR2 PANEL-# a — LIGHTING CONTROL RELAY MODULE
20A SWITCHING, WIRED, UNIVERSAL VOLTAGE, ON/OFF, SYSTEM CONNECTED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
a = SWITCHING OR DIMMING ZONE CONTROLLED
PANEL-# = PANEL AND CIRCUIT #

LR3 PANEL-# a — RECEPTACLE CONTROL RELAY MODULE
20A SWITCHING, WIRED, UNIVERSAL VOLTAGE, ON/OFF, SYSTEM CONNECTED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
PANEL-# = PANEL AND CIRCUIT #

OS1 a — CEILING MOUNTED OCCUPANCY SENSOR
WIRED, 360°, DUAL-TECHNOLOGY (INFRARED / ULTRASONIC), SYSTEM CONNECTED.
a = SWITCHING OR DIMMING ZONE CONTROLLED

OS2 a — CEILING MOUNTED OCCUPANCY SENSOR
WIRED, 360°, ULTRASONIC, SYSTEM CONNECTED.
a = SWITCHING OR DIMMING ZONE CONTROLLED

C# a — LOW VOLTAGE LIGHTING CONTROL STATION
SYSTEM CONNECTED
# = STATION NUMBER. REFER TO CONTROL STATION ELEVATIONS AND DETAILS.
a = SWITCHING OR DIMMING ZONE CONTROLLED

PC1 a — DAYLIGHTING CONTROL PHOTOCELL SENSOR
WIRED, SYSTEM CONNECTED, MOUNT PER MANUFACTURER'S SPECIFICATIONS.
a = SWITCHING OR DIMMING ZONE CONTROLLED

LCRP# — LIGHTING CONTROL RELAY PANEL
REFER TO LIGHTING CONTROL WIRING DIAGRAMS.
= STATION NUMBER.

LCN# — LIGHTING CONTROL NETWORK EQUIPMENT
= STATION NUMBER.

SWITCHING & WIRING LEGEND

$ — SINGLE POLE SWITCH, MH = 44"AFF, UON
3 = THREE-WAY
4 = FOUR-WAY
PL = PILOT LIGHT
D = DIMMER
VS = VARIABLE SPEED CONTROLLER
K = KEY OPERATED
O = OCCUPANCY SENSOR
OD = DUAL RELAY OCCUPANCY SENSOR
T = DIGITAL TIMER
LV = LOW VOLTAGE

$$ — DOUBLE SWITCHING, ONE SWITCH SHALL CONTROL INBOARD LAMP, OTHER SWITCH SHALL CONTROL OUTBOARD LAMP(S) OF CONTROLLED LIGHTING CIRCUIT

{ # } — LIGHTING CONTROL PANEL CIRCUIT NUMBER

{ E# } — EMERGENCY LIGHTING CONTROL PANEL CIRCUIT NUMBER

LP1(#) — HOMERUN TO DESIGNATED PANELBOARD, (#=QUANTITY OF HOMERUNS IF MULTIPLE) (2#12&1#12G-3/4"C., UON)

ELECTRICAL WIRING CIRCUIT (IN WALLS AND CEILINGS)

ELECTRICAL WIRING CIRCUIT (BELOW FLOOR OR SLAB)

SWITCH OR CONTROL CIRCUIT

EMERGENCY LIGHTING AC CIRCUIT

DC CIRCUIT

CONNECTION AT EQUIPMENT

POWER LEGEND

NEW SURFACE MOUNTED PANELBOARD

NEW RECESSED MOUNTED PANELBOARD

EXISTING SURFACE MOUNTED PANELBOARD

EXISTING RECESSED MOUNTED PANELBOARD

T — TRANSFORMER

GROUNDED DUPLEX RECEPTACLE, MH=18"AFF, UON

GROUNDED QUAD RECEPTACLE, MH=18"AFF, UON

GFCI DUPLEX RECEPTACLE, MH=18"AFF, UON

GFCI QUAD RECEPTACLE, MH=18"AFF, UON

PLUG LOAD CONTROLLED RECEPTACLE, MH=18"AFF, UON

QUAD PLUG LOAD CONTROLLED RECEPTACLE, MH=18"AFF, UON

USB RECEPTACLE, MH=18"AFF, UON
U1 = (1) DUPLEX RECEPTACLE WITH (2) USB CHARGERS
U2 = (4) USB CHARGERS
Q = (1) QUAD RECEPTACLE WITH (4) USB CHARGERS

TYPICAL RECEPTACLE SUBSCRIPTS

E = EMERGENCY
C = COUNTER HEIGHT
F = SURFACE FLOOR MOUNTED (REFER TO DETAIL)
CLG = CEILING MOUNTED
T = TASKLIGHT
CR = CORROSION RESISTANT
WP = WEATHER PROOF
TR = TAMPER RESISTANT

A — SPECIAL PURPOSE RECEPTACLE, LETTER INDICATES TYPE, REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE

A — RECESSED FLOOR BOX WITH FLUSH COVER PLATE, ROUTE CONDUITS IN FLOOR SLAB, SUBSCRIPT DENOTES FLOOR BOX TYPE, REFER TO FLOOR BOX SCHEDULE

A — POKE THRU FLOOR BOX WITH FLUSH COVER PLATE, ROUTE CONDUITS IN ACCESSIBLE CEILING BELOW, SUBSCRIPT DENOTES FLOOR BOX TYPE, REFER TO FLOOR BOX SCHEDULE

P — TWO SECTION POWER POLE

X — MOTOR LOCATION, X=HORSEPOWER *

CP X — MOTOR LOCATION WITH CONTROL PANEL & DISCONNECT, DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR, X=HORSEPOWER *

COMBINATION MAGNETIC STARTER, (WITH HOA, UON)

DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

J — JUNCTION BOX

SINGLE SECTION, SURFACE PLUG MOLD. RECEPTACLES SPACED 18" APART, U.O.N.

TWO SECTION, SURFACE RACEWAY. ■ INDICATES NORMAL DUPLEX RECEPTACLE LOCATION IN RACEWAY, UON
IG = INDICATES ISOLATED GROUND RECEPTACLE LOCATION

4" SQUARE RECESSED OUTLET BOX MOUNTED BEHIND SURFACE RACEWAY WITH CABLE AND CONDUIT FOR POWER, AS INDICATED ON DRAWINGS

WC — ELECTRIC WATER COOLER *

XX XX — MECHANICAL OR PLUMBING EQUIPMENT THAT REQUIRE POWER

ETP — ELECTRONIC TRAP PRIMER

BAS — BUILDING AUTOMATION SYSTEM

UPS — UNINTERRUPTIBLE POWER SUPPLY

WSCP# — WINDOW SHADE CONTROL PANEL, # DENOTES PANEL NUMBER

XX LCD — LCD DISPLAY LOCATION - XX INDICATES HEIGHT AFF
REFER TO AUDIO VISUAL OUTLET SCHEDULE FOR MORE INFORMATION

DH — DOOR HOLDER **

D — DRY ALARM VALVE - COMPRESSOR LOCATION

S — FIRE/SMOKE DAMPER W/ INTEGRATED SMOKE DETECTOR *

S — SMOKE DAMPER W/ INTEGRATED SMOKE DETECTOR *

CONTROLS LEGEND

GS — GAS SHUTOFF *

SV — SOLENOID VALVE, PROVIDED BY MC - WIRED TO GAS SHUTOFF BY EC

VFD — VARIABLE FREQUENCY DRIVE (MOTOR STARTER) *

ATC — AUTOMATIC TEMPERATURE CONTROL PANEL *

KS — KEY OPERATED SWITCH

REMOTE PUSH BUTTON

GAP — GENERATOR REMOTE ANNUNCIATOR PANEL

EPO — EMERGENCY POWER OFF PUSH BUTTON

BSS — BOILER SHUTDOWN SWITCH, REFER TO WIRING DIAGRAM

FTP — FUEL TANK MONITOR PANEL *

PB — MOTORIZED DOOR CONTROL PUSH BUTTON 44"AFF. PROVIDE 4" DOUBLE GANG OUTLET BOX W/ 3/4"C TO DOOR CONTROLLER, COORDINATE CABLING REQUIREMENTS WITH MANUFACTURER

R — RELAY WITH 277V OR 120V COIL AND CONTACTS RATED AS REQUIRED

C — MAGNETIC CONTACTOR WITH CONTACTS RATED AS REQUIRED

DB — DOOR BELL

BTC — BOILER THERMAL CUT-OUT *

T — LINE VOLTAGE THERMOSTAT *

A — AQUASTAT *

J1 — JUNCTION BOX WITH BLANK COVER FOR TRANSFORMER

D — HEARING IMPAIRED DOOR BELL ANNUNCIATOR

T — HEARING IMPAIRED TELEPHONE ANNUNCIATOR

DA — DOOR BELL ANNUNCIATOR

CIRCUIT BREAKER TYPES

AF	AFCI CIRCUIT BREAKER
G	GFCI CIRCUIT BREAKER
H	HACR CIRCUIT BREAKER
L	LOCKED-ON CIRCUIT
S	SHUNT TRIP CIRCUIT BREAKER

ELECTRICAL DEMOLITION NOTES

D-1 AS DIRECTED BY THE OWNER, ALL EXISTING ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES LOCATED IN THE EXISTING FACILITY ARE TO BE CAREFULLY DISASSEMBLED AND REMOVED, SALVAGED, AND TURNED OVER TO THE OWNER, UNLESS INDICATED TO BE REUSED ON THE ARCHITECTURAL AND/OR ELECTRICAL PLANS AND SPECIFICATIONS.

D-2 NO EXISTING ELECTRICAL EQUIPMENT, SYSTEMS, OR APPURTENANCES SHALL BE ABANDONED IN PLACE. (NOTE: CONDUIT LOCATED IN EXISTING WALLS TO REMAIN AND FLOOR SLABS MAY BE ABANDONED IN PLACE OR REUSED.

D-3 WHERE EQUIPMENT OR APPURTENANCES ARE REMOVED WHICH WERE BUILT-IN TO EXISTING CONSTRUCTION, COORDINATE WITH THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR TO PATCH AND/OR REPAIR ALL SUCH AREAS IN ACCORDANCE WITH APPROVED CONSTRUCTION METHODS AND FINISHES, AS DIRECTED BY THE CONTRACT DRAWINGS, SPECIFICATIONS, AND/OR THE ARCHITECT/ENGINEER.

D-4 COORDINATE WITH THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND ALL OTHER SUB-CONTRACTORS IN ORDER TO DETERMINE OVERALL PROJECT PHASING AND DEMOLITION WORK SEQUENCING. COORDINATE REQUIRED DEMOLITION BY OTHER TRADES RESULTING FROM ELECTRICAL SYSTEMS DEMOLITION.

D-5 PROTECT ALL EXISTING FINISHES WHICH ARE TO REMAIN.

D-6 REFER TO THE ARCHITECTS DEMOLITION NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION AND REQUIREMENTS.

D-7 ALL PCB TYPE LIGHTING FIXTURE BALLASTS TO BE REMOVED SHALL BE TURNED OVER TO THE ABATEMENT CONTRACTOR FOR FURTHER DISPOSITION.

D-8 REMOVE AND DISPOSE OF EXISTING ELECTRICAL EQUIPMENT AND ASSOCIATED BOXES, CONDUIT AND WIRE WHERE INDICATED OR WHERE LOCATED ON OR WITHIN WALLS AND CEILINGS BEING DEMOLISHED OR ALTERED AS A RESULT OF THIS CONTRACT, UNLESS OTHERWISE INDICATED. IT IS NOT THE INTENT OF THESE DRAWINGS TO INDICATE ALL ELECTRICAL ITEMS TO BE REMOVED.

D-9 EXISTING ELECTRICALLY POWERED ITEMS THAT REMAIN SHALL BE RECIRCUITED, IF NECESSARY, TO ENSURE CONTINUED OPERATION.

D-10 WORK FOR THIS PROJECT WILL BE PHASED, AS DIRECTED BY THE OWNER. WHEN A PARTIAL SYSTEM IS PLACED BACK IN SERVICE DURING CONSTRUCTION. THE SYSTEM SHALL BE TESTED TO ENSURE IT IS FULLY OPERATIONAL. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO POWER, FIRE ALARM, LIGHTING, EMERGENCY LIGHTING, EXIT SIGNAGE, DATA, TELEPHONE, AND P/A SYSTEMS.

D-11 REMOVE OR MODIFY THE PART OF EACH ELECTRICAL SYSTEM CORRESPONDING TO THE PHASING PLANS FOR THE PROJECT. PROVIDE TEMPORARY WIRING FOR EACH SYSTEM TO REMAIN OPERATIONAL DURING CONSTRUCTION.

D-12 FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO THE CONTRACTOR'S FAILURE TO FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT *
C	COUNTER HEIGHT
CLG	CEILING MOUNTED
CUH	CABINET UNIT HEATER *
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN *
FB	FAN BOX *
FIBO	FURNISHED AND INSTALLED BY OWNER/OTHERS
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
LOR	LOCATED ON ROOF
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DOOR **
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PUH	PROPELLER UNIT HEATER *
RF	RETURN FAN *
RTU	ROOF TOP UNIT *
SF	SUPPLY FAN *
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
*	EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
**	EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

ELECTRICAL TRADE NOTES

E-1 ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND THE CURRENT NATIONAL ELECTRICAL CODE (NEC) BY ELECTRICIANS LICENSED BY THE STATE IN WHICH THE WORK IS PERFORMED.

E-2 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF ELECTRICAL REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.

E-3 WIRING FOR ALL SINGLE PHASE CIRCUITS, 20A OR SMALLER, SHALL BE A MINIMUM OF 2#12 &1#12G-3/4"C., FOR CIRCUIT LENGTHS UNDER 100FT AND 2#10&1#10G-3/4"C., FOR CIRCUIT LENGTHS 100FT AND OVER , UNLESS OTHERWISE NOTED. CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL INCLUDE ADDITIONAL ISOLATED GROUND CONDUCTOR. CIRCUITS FOR DOUBLE SWITCHED LIGHT FIXTURES SHALL INCLUDE ADDITIONAL SWITCHED CONDUCTOR(S) AS REQUIRED. THE SHARING OF NEUTRAL CONDUCTORS IS NOT ALLOWED.

E-4 MOUNTING HEIGHTS GIVEN FOR ALL WIRING DEVICES (WALL SWITCHES, RECEPTACLES, ETC.), TELEPHONE EQUIPMENT, SPEAKERS AND LIGHT FIXTURES ARE TO THE CENTERLINE OF THE JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.

E-5 REMOVE AND DISPOSE OF EXISTING ELECTRICAL EQUIPMENT AND ASSOCIATED BOXES, CONDUIT AND WIRE WHERE INDICATED OR WHERE LOCATED ON OR WITHIN WALLS AND CEILINGS BEING DEMOLISHED OR ALTERED AS A RESULT OF THIS CONTRACT, UNLESS OTHERWISE INDICATED. IT IS NOT THE INTENT OF THESE DRAWINGS TO INDICATE ALL ELECTRICAL ITEMS TO BE REMOVED.

E-6 CIRCUIT WIRING INDICATED ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL NOT BE CONSIDERED TO BE POINT-TO-POINT, UNLESS OTHERWISE NOTED.

E-7 EXISTING ELECTRICALLY POWERED ITEMS THAT REMAIN SHALL BE RECIRCUITED, IF NECESSARY, TO ENSURE CONTINUED OPERATION.

E-8 COORDINATE FINAL LOCATIONS OF CEILING LIGHT FIXTURES AND OTHER EQUIPMENT WITH REFLECTED CEILING PLANS AND ALL OTHER TRADE DRAWINGS PRIOR TO INSTALLATION.

E-9 WHERE LONG CIRCUIT LENGTHS ARE REQUIRED, ENSURE LESS THAN 3% VOLTAGE DROP UNDER FULL LOAD. INCREASE WIRE SIZE ON CIRCUITS 100 FEET LONG AND ABOVE.

E-10 PROVIDE AND ENSURE FIREPROOFING OF ALL CONDUIT, CABLING AND ANY OTHER ELECTRICAL DEVICES THROUGH FIRE RATED ASSEMBLIES.

E-11 PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.

E-12 MOUNTING HEIGHT FOR ELECTRICAL DEVICES (RECEPTACLES, MULTICOMMUNICATIONS OUTLETS, ETC) LOCATED ON WALLS ABOVE FINTUBE SHALL BE 4" FROM TOP OF FINTUBE ENCLOSURE TO CENTERLINE OF ELECTRICAL DEVICE.

E-13 PROVIDE EXPANSION FITTINGS IN CONDUIT RISERS FROM ALL EXTERIOR UNDERGROUND CONDUITS TO FIXED EQUIPMENT OR CONDUIT FITTINGS AND PROVIDE FLEXIBLE CONNECTIONS TO ANY EQUIPMENT SUBJECT TO SETTLEMENT OR FROST HEAVES.

E-14 WHERE DOUBLE SWITCHES ARE INDICATED, FIXTURES SHALL BE PROVIDED WITH MULTIPLE BALLASTS.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE IS COVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO: NFPA, IBC, UL, SMACNA, OSHA, AND NEC.

G-3 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.

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REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

SHEET NAME
ELECTRICAL LEGEND ABBREVIAITIONS & NOTES

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: FPW	DATE: 05/01/2024
CHECKED: AMS	SCALE: NO SCALE

DRAWING NO.:

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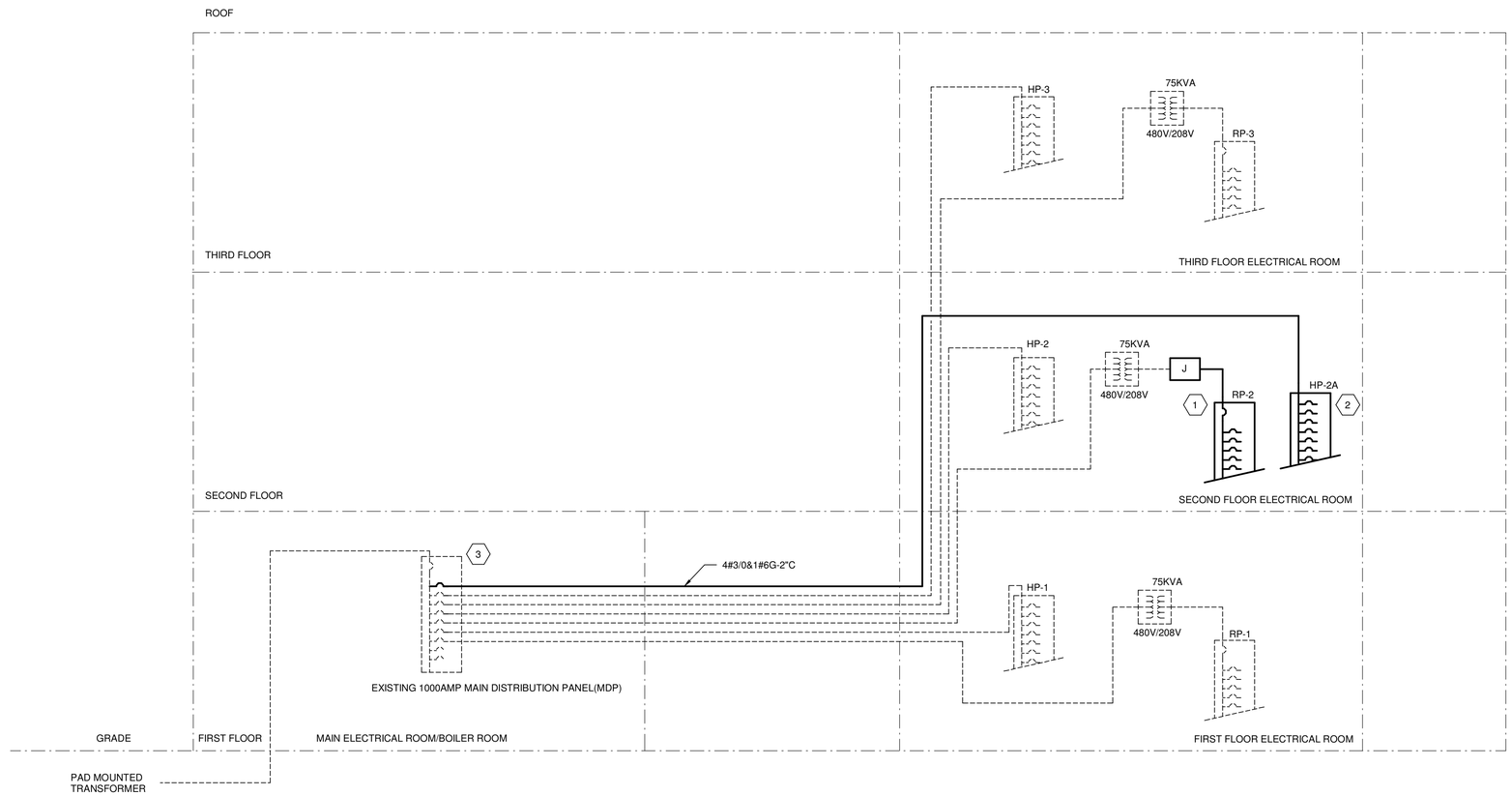
DRAWING NOTES

1. REPLACE EXISTING PANEL RP-2 WITH NEW 225 AMP MAIN CIRCUIT BREAKER, 208/120V, 3PHASE, 4 WIRE, 72 POLE PANELBOARD. CUT EXISTING BRANCH CIRCUITS BACK TO CEILING, INSTALL SPLICE BOX TO SPLICE AND EXTEND EXISTING CIRCUITS TO NEW PANELBOARD MOUNTED IN SAME LOCATION.
2. PROVIDE NEW 200 AMP MAIN LUG ONLY, 480/277V 3 PHASE, 4 WIRE 42 POLE PANELBOARD
3. PROVIDE NEW 3 POLE 200 AMP CIRCUIT BREAKER IN MAIN DISTRIBUTION PANEL(MDP)

ONE-LINE LEGEND

- NEW WIRE OR DEVICE
- EXISTING WIRE OR DEVICE TO REMAIN
- EXISTING WIRE OR DEVICE TO BE REMOVED
- CIRCUIT BREAKER, ET = ELECTRONIC TRIP
- SHUNT-TRIP CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER
- FUSED DISCONNECT SWITCH
- XXXAF / XXXAT = SIZE
- TRANSFORMER
- AUTOMATIC TRANSFER SWITCH
- GROUND
- PANELBOARD (MAIN LUG)
- PANELBOARD (MAIN CIRCUIT BREAKER)
- IDENTIFICATION FOR WIRE SIZE & QUANTITY (SEE FEEDER SCHEDULE)
- FUSE
- SWITCH



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CHAMPLAIN COLLEGE

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RFS Project #: 9963.003

REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

SHEET NAME
EXISTING ELECTRICAL ONE-LINE NEW WORK

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: FPW	DATE: 05/01/2024
CHECKED: AMS	SCALE: 12" = 1'-0"

DRAWING NO.:

E002

PANELBOARD: HP-2

EXISTING

BUS SIZE: 200 AMP
VOLTAGE: 4801/277V 3PH, 4W
SERVICE RATED: NO
ISOLATED GROUND BUS: NO
SHORT CIR. CURRENT RATING:

MAIN: MLO
NEUTRAL: 100%
LOCATION: 2ND FLOOR ELECT
MOUNTING: SURFACE
SPD:

SUPPLY FROM:

DIRECTORY	# OF POLES	CKT BKR AMPS	CKT BKR TYPE	CKT #	A	B	C	A	B	C	CKT #	CKT BKR TYPE	CKT BKR AMPS	# OF POLES	DIRECTORY
HEAT PUMP #16	3	20	--	1	0			0			2	--	20	3	HEAT PUMP #12
				3		0			0		4				
				5			0			0	6				
HEAT PUMP #15	3	20	--	7	0			0			8	--	20	3	HEAT PUMP #11
				9		0			0		10				
				11			0			0	12				
HEAT PUMP #10	3	20	--	13	0			0			14	--	20	3	HEAT PUMP #17
				15		0			0		16				
				17			0			0	18				
HEAT PUMP #13	3	20	--	19	0			0			20	--	20	1	LIGHTS BATH, ELEC
				21		0			0		22	--	20	1	LIGHTS AREA 239
				23			0			0	24	--	20	1	LIGHTS CORR, RM 240, 241, 242,
LIGHTS AREA 237	1	20	--	25	0			0			26	--	20	1	EXISTING LOAD
LIGHTS AREA 224	1	20	--	27		0			0		28	--	20	1	EXISTING LOAD
LIGHTS AREA CENTER AREA	1	20	--	29			0			0	30	--	20	1	EXISTING LOAD
LIGHTS AREA AREA 231	1	20	--	31	0			0			32	--	20	1	EXISTING LOAD
LIGHTS CORR AREA 237	1	20	--	33		0			0		34	--	20	1	EXISTING LOAD
SPARE	1	20	--	35			0			0	36	--	20	1	EXISTING LOAD
HEAT PUMP # 18 CONF RM 222	3	20	--	37	0			0			38	--	20	1	EXISTING LOAD
				39		0			0		40	--	20	1	EXISTING LOAD
				41			0			0	42	--	20	1	EXISTING LOAD

NOTES:

TOTAL WATTS A:	0 W
TOTAL WATTS B:	0 W
TOTAL WATTS C:	0 W
TOTAL WATTS:	0 W
TOTAL AMPS @100%:	0 A
TOTAL AMPS @125%:	0 A
TOTAL PANEL RECEPTACLE LOAD:	
TOTAL AMPS WITH DIVERSITY:	0 A
MIN. CIRCUIT BREAKER RATING:	0 A

CKT BKR TYPE	
S = SHUNT TRIP	G = GFCI
L = LOCK ON C.B.	ET = ELECTRONIC TRIP
AF = ARC FAULT	N = NEW (EXISTING PANEL ONLY)
EX = EXISTING (EXISTING PANEL ONLY)	

PANELBOARD: HP-2A

NEW

BUS SIZE: 200 AMP
VOLTAGE: 480/277V 3PH, 4W
SERVICE RATED: NO
ISOLATED GROUND BUS: NO
SHORT CIR. CURRENT RATING:

MAIN: MLO
NEUTRAL: 100%
LOCATION: 2ND FLOOR ELECT ROOM
MOUNTING: SURFACE
SPD:

SUPPLY FROM: MDP

DIRECTORY	# OF POLES	CKT BKR AMPS	CKT BKR TYPE	CKT #	A	B	C	A	B	C	CKT #	CKT BKR TYPE	CKT BKR AMPS	# OF POLES	DIRECTORY
WSHP-1	3	15		1	3132			2605			2		15	3	WSHP-2
				3		3132			2605		4				
				5			3132			2605	6				
WSHP-3	3	15		7	2605			2605			8		15	3	WSHP-4
				9		2605			2605		10				
				11			2605			2605	12				
WSHP-5	3	15		13	1940			1940			14		15	3	WSHP-7
				15		1940			1940		16				
				17			1940			1940	18				
ERV-1	3	15		19	1995			0			20	--	15	3	SPARE
				21		1995			0		22				
				23			1995			0	24				
SPARE	3	20	--	25	0			0			26	--	20	3	SPARE
				27		0			0		28				
				29			0			0	30				
SPARE	1	20	--	31	0			0			32	--	20	1	SPARE
SPARE	1	20	--	33		0			0		34	--	20	1	SPARE
SPARE	1	20	--	35			0			0	36	--	20	1	SPARE
SPARE	1	20	--	37	0			0			38	--	20	1	SPARE
SPARE	1	20	--	39		0			0		40	--	20	1	SPARE
SPARE	1	20	--	41			0			0	42	--	20	1	SPARE

NOTES:

TOTAL WATTS A:	16822 W
TOTAL WATTS B:	16822 W
TOTAL WATTS C:	16822 W
TOTAL WATTS:	50465 W
TOTAL AMPS @100%:	61 A
TOTAL AMPS @125%:	76 A
TOTAL PANEL RECEPTACLE LOAD:	
TOTAL AMPS WITH DIVERSITY:	61 A
MIN. CIRCUIT BREAKER RATING:	76 A

CKT BKR TYPE	
S = SHUNT TRIP	G = GFCI
L = LOCK ON C.B.	ET = ELECTRONIC TRIP
AF = ARC FAULT	N = NEW (EXISTING PANEL ONLY)
EX = EXISTING (EXISTING PANEL ONLY)	

PANELBOARD: RP-2

EXISTING

BUS SIZE: 200 AMP
VOLTAGE: 208/120V 3PH 4W
SERVICE RATED: NO
ISOLATED GROUND BUS: NO
SHORT CIR. CURRENT RATING:

MAIN: 200 AMP MCB
NEUTRAL: 100%
LOCATION: 2ND FLOOR ELECTRICAL...
MOUNTING: SURFACE
SPD:

SUPPLY FROM:

DIRECTORY	# OF POLES	CKT BKR AMPS	CKT BKR TYPE	CKT #	A	B	C	A	B	C	CKT #	CKT BKR TYPE	CKT BKR AMPS	# OF POLES	DIRECTORY
RECEPT 234,232, 233, 234,228,229, 230, 234	3	20	--	1	0			0			2	--	20	3	RECEPT 222, OPEN OFFICE 221,
				3		0			0		4				
				5			0			0	6				
RECEPT 228	1	20	--	7	0			0			8	--	20	1	RECEPT 225,226,227
RECEPT 230	1	20	--	9		0			0		10	--	20	1	RECEPT 228
REST ROOM	1	20	--	11			0			0	12	--	20	1	RECEPT 235, CORRIDOR
RECEPT OPEN OFFICE 239 FURNITURE	3	20	--	13	0			0			14	--	20	3	RECEPT OPEN OFFICE 237 FURNITURE
				15		0			0		16				
				17			0			0	18				
RECEPT OPEN OFFICE 237 FURNITURE	3	20	--	19	0			0			20	--	20	3	RECEPT OPEN OFFFICE 224 FURNITURE
				21		0			0		22				
				23			0			0	24				
RECEPT 236,236 224 FURNITURE	3	20	--	25	0			0			26	--	20	3	RECEPT OPEN OFFICE 224 FURNITURE
				27		0			0		28				
				29			0			0	30				
RECEPT 238, 237	1	20	--	31	0			0			32	--	20	1	RECEPT 206
RECEPT 206	1	20	--	33		0			0		34	--	20	1	RECEPT 206 DATA RACK
RECEPT 200,240,241,243	1	20	--	35			0			0	36	--	20	1	RECEPT 206
KITCHEN OUTLETS MICRO	1	20	--	37	0			0			38	--	20	1	RECEPT OFFICE FURNITURE
KITCHEN OUTLETS FRIDGE	1	20	--	39		0			0		40	--	20	1	SPARE
JODI, JAMES, MATT	1	20	--	41			0			0	42	--	20	1	(A) (B) OFFICE FURNITURE

NOTES:

TOTAL WATTS A:	1080 W
TOTAL WATTS B:	0 W
TOTAL WATTS C:	0 W
TOTAL WATTS:	1080 W
TOTAL AMPS @100%:	3 A
TOTAL AMPS @125%:	4 A
TOTAL PANEL RECEPTACLE LOAD:	
TOTAL AMPS WITH DIVERSITY:	3 A
MIN. CIRCUIT BREAKER RATING:	4 A

CKT BKR TYPE	
S = SHUNT TRIP	G = GFCI
L = LOCK ON C.B.	ET = ELECTRONIC TRIP
AF = ARC FAULT	N = NEW (EXISTING PANEL ONLY)
EX = EXISTING (EXISTING PANEL ONLY)	

PANELBOARD: RP-2

EXISTING NEW WORK

BUS SIZE: 225 AMP
VOLTAGE: 208/120V 3PH, 4W
SERVICE RATED: NO
ISOLATED GROUND BUS: NO
SHORT CIR. CURRENT RATING:

MAIN: 225 AMP MCB
NEUTRAL: 100%
LOCATION: 2ND FLOOR ELECRICAL...
MOUNTING: SURFACE
SPD:

SUPPLY FROM: T75

DIRECTORY	# OF POLES	CKT BKR AMPS	CKT BKR TYPE	CKT #	A	B	C	A	B	C	CKT #	CKT BKR TYPE	CKT BKR AMPS	# OF POLES	DIRECTORY
RECEPT OFFICE 246A	1	20		1	540			980			2		20	1	FURNITURE FEED FORENSICS 246
FURNITURE FEED FORENSICS 246	1	20		3		1470			980		4		20	1	FURNITURE FEED FORENSICS 246
FURNITURE FEED FORENSICS 246	1	20		5			1470			1080	6		20	1	RECEPT DIGITAL FORENSICS 246
RECEPT PROF SERV COMP LAB...	1	20		7	900			980			8		20	1	FURNITURE FEED IOT LAB 243
POWER	1	20		9		1470			980		10		20	1	FURNITURE FEED PROF SERV...
FURNITURE FEED PROF SERV...	1	20		11			1470			0	12	--	20	1	RECEPT 235, CORRIDOR
RECEPT OPEN OFFICE 239 FURNITURE	3	20	--	13	0			0			14	--	20	3	RECEPT OPEN OFFICE 237 FURNITURE
				15		0			0		16				
				17			0			0	18				
RECEPT OPEN OFFICE 237 FURNITURE	3	20	--	19	0			1200			20		20	1	RECEPT FLOOR BOX 245
				21		0					22				
				23			0				24				
RECEPT 236,236 224 FURNITURE	3	20	--	25	0						26				
				27		0			540		28		20	1	RECEPT OFFICE 245A
				29			0			540	30		20	1	RECEPT OFFICE
RECEPT 238, 237	1	20	--	31	0			0			32	--	20	1	RECEPT 206
RECEPT 206	1	20	--	33		0			0		34	--	20	1	RECEPT 206 DATA RACK
RECEPT 200,240,241,243	1	20	--	35			0			0	36	--	20	1	RECEPT 206
KITCHEN OUTLETS MICRO	1	20	--	37	0			0			38	--	20	1	RECEPT OFFICE FURNITURE
KITCHEN OUTLETS FRIDGE	1	20	--	39		0			1470		40		20	1	RECEPT FLOOR BOX 247
JODI, JAMES, MATT	1	20	--	41			0			0	42	--	20	1	(A) (B) OFFICE FURNITURE
WSHP-6	2	15		43	541			822			44		15	2	WSHP-9
				45		541			822		46				
WSHP-8	2	15		47			541			541	48		15	2	WSHP-10
				49	541			541			50				
WSHP-11	2	15		51		541			900		52		20	1	RECEPT OFFICE 243A
				53			541				54				
				55				980			56		20	1	RECEPT FLOOR BOX IOT 243
				57					360		58		20	1	RECEPT COLLAB/CONF 242
RECEPT WALL DISPLAY IOT 243	1	20		59			720			1260	60		20	1	RECEPT CYBER LAB 247, 247A
RECEPT LOBBY 240, 241	1	20		61	1440			500			62		20	1	RECEPT CEILING PROJ 247
RECEPT CEILING PROJ 247	1	20		63		500			1470		64		20	1	RECEPT FLOOR BOX 247
RECEPT FLOOR BOX 247	1	20		65			1470			1470	66		20	1	RECEPT FLOOR BOX 247
RECEPT FLOOR BOX 247	1	20		67	0			1470			68		20	1	RECEPT FLOOR BOX 247
RECEPT FLOOR BOX 247	1	20		69		1470			1470		70		20	1	RECEPT FLOOR BOX 247
RECEPT FLOOR BOX 247A	1	20		71			1470			1470	72		20	1	RECEPT FLOOR BOX 247A
RECEPT FLOOR BOX IOT 243	1	20		73	980			360			74		20	1	RECEPT SERVER 245B
RECEPT SERVER 245B	1	20		75		360			2496		76		30	2	RECEPT L6-30R SERVER 245B
				77						2496	78				
SPARE	1	20	--	79	0			0			80	--	20	1	SPARE
SPARE	1	20	--	81		0			0		82	--	20	1	SPARE
SPARE	1	20	--	83			0			0	84	--	20	1	SPARE

NOTES:

TOTAL WATTS A:	12774 W
TOTAL WATTS B:	17839 W
TOTAL WATTS C:	16538 W
TOTAL WATTS:	47152 W
TOTAL AMPS @100%:	131 A
TOTAL AMPS @125%:	164 A
TOTAL PANEL RECEPTACLE LOAD:	3060 W
TOTAL AMPS WITH DIVERSITY:	131 A
MIN. CIRCUIT BREAKER RATING:	164 A

CKT BKR TYPE	
S = SHUNT TRIP	G = GFCI
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AF = ARC FAULT	N = NEW (EXISTING PANEL ONLY)
EX = EXISTING (EXISTING PANEL ONLY)	

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REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

SHEET NAME
PANELBOARD SCHEDULES

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: FPW | DATE: 05/01/2024
CHECKED: AMS | SCALE:

DRAWING NO.:

E003

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT TAG & NUMBER	EQUIPMENT NAME	EQUIPMENT ROOM LOCATION	AMPS	HP	KW	PHASE	VOLTAGE	PANEL	CIRCUIT NUMBER	CIRCUIT BREAKER	POWER WIRING FROM PANEL TO CONTROL UNIT AND FROM CONTROL UNIT TO EQUIPMENT	REFERENCE NOTES	CONTROL DEVICES NOTES
ERV-1	ENERGY RECOVERY UNIT	STORAGE 243b	7.2		5.986	3	480 V	HP-2A	19,21,23	15	3#12, 1#12 GND, 3/4" C		
WSHP-1	WATER SOURCE HEAT PUMP	DIGITAL FLEX LAB 247	11.3		9.395	3	480 V	HP-2A	1,3,5	25	3#10, 1#10 GND, 3/4" C		
WSHP-2	WATER SOURCE HEAT PUMP	IOT LAB 243	9.4		7.815	3	480 V	HP-2A	2,4,6	20	3#12, 1#12 GND, 3/4" C		
WSHP-3	WATER SOURCE HEAT PUMP	COMP LAB 245	9.4		7.815	3	480 V	HP-2A	7,9,11	20	3#12, 1#12 GND, 3/4" C		
WSHP-4	WATER SOURCE HEAT PUMP	DIGITAL FORENSICS 246	9.4		7.815	3	480 V	HP-2A	8,10,12	20	3#12, 1#12 GND, 3/4" C		
WSHP-5	WATER SOURCE HEAT PUMP	LOBBY 241	7		5.82	3	480 V	HP-2A	13,15,17	15	3#12, 1#12 GND, 3/4" C		
WSHP-6	WATER SOURCE HEAT PUMP	KITCHEN	5.2		1.082	1	208 V	RP-2	43,45	15	2#12, 1#12 GND, 3/4" C		
WSHP-7	WATER SOURCE HEAT PUMP	LOBBY 240	7		5.82	3	480 V	HP-2A	14,16,18	15	3#12, 1#12 GND, 3/4" C		
WSHP-8	WATER SOURCE HEAT PUMP	IOT LAB 243	5.2		1.082	1	208 V	RP-2	47,49	15	2#12, 1#12 GND, 3/4" C		
WSHP-9	WATER SOURCE HEAT PUMP	COMP LAB 245	7.9		1.643	1	208 V	RP-2	44,46	20	2#12, 1#12 GND, 3/4" C		
WSHP-10	WATER SOURCE HEAT PUMP	COMP LAB 245	5.2		1.082	1	208 V	RP-2	48,50	15	2#12, 1#12 GND, 3/4" C		
WSHP-11	WATER SOURCE HEAT PUMP	COMP LAB 246A	5.2		1.082	1	208 V	RP-2	51,53	15	2#12, 1#12 GND, 3/4" C		
WSHP-12	WATER SOURCE HEAT PUMP	OPEN OFFICE 248	9.4		7.815	3	480 V			20	3#12, 1#12 GND, 3/4" C		
WSHP-13	WATER SOURCE HEAT PUMP	IOT LAB 243	9.4		7.815	3	480 V			20	3#12, 1#12 GND, 3/4" C		

GENERAL NOTES:

1.) ALL ACCESSORIES PROVIDED BY THE DIVISION 26 CONTRACTOR, UON.
2.) ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED, UNLESS OTHERWISE NOTED.
3.) PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 26 CONTRACTOR.
4.) IF DIFFERENT THAN INDICATED ON THIS SCHEDULE OR PANELBOARD SCHEDULE, PROVIDE NEW CIRCUIT BREAKER IN DESIGNATED PANELBOARD SIZED PER EQUIPMENT NAMEPLATE DATA.

REFERENCE NOTES:

A. PROVIDE PROPERLY SIZED FUSED DISCONNECT SWITCH.

CONTROL DEVICES NOTES:

1.) MANUAL MOTOR STARTER
2.) COMBINATION MAGNETIC STARTER
3.) VARIABLE SPEED DRIVE
4.) PACKAGED CONTROL UNIT
5.) FIRE ALARM FAN SHUT DOWN
6.) BOILER SHUTDOWN SWITCH & THERMAL CUTOUT

*SUPPLIED BY MECHANICAL CONTRACTOR
INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR

FLOOR BOX SCHEDULE

DEVICE	TYPE/SIZE	DESCRIPTION	CONDUITS	COMMENTS	OUTLETS REQUIRED
A1	FIRE RATED RECESSED POKE THRU DEVICE	WIREMOLD EVOLUTION SERIES (8AT) FIRE RATED POKE THRU FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY AND TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR FOR USE IN WOOD, RESILIENT TILE, AND POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1 - 1"C DATA	FOUR GANG CAPACITY POKE THRU, PROVIDE SCREW DOWN COVER AND 2", 3/4", AND 1" BOTTOM HOUSING ASSEMBLIES AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA OUTLET INSTALLATION WITH TELECOM CONTRACTOR.	TWO DUPLEX POWER RECEPTACLES 68REC (ONE PER SIDE) ONE DECORA DATA DEVICE PLATE 8DEC (2 DATA AND 1 VOICE OUTLET) COVER FINISH TO BE SELECTED BY ARCHITECT.
A2	FIRE RATED RECESSED POKE THRU DEVICE	WIREMOLD EVOLUTION SERIES (8AT) FIRE RATED POKE THRU FOR INSTALLATION IN CONCRETE FLOORS. PROVIDE SURFACE STYLE COVER ASSEMBLY AND TILE SHIMS FOR USE IN CARPETED FLOORS, AND FLUSH STYLE COVER ASSEMBLY WITH TILE SHIMS FOR FOR USE IN WOOD, RESILIENT TILE, AND POLISHED CONCRETE FLOORS.	1 - 3/4"C POWER 1 - 1"C DATA 1 - 2"C AV	FOUR GANG CAPACITY POKE THRU, PROVIDE SCREW DOWN COVER AND 2", 3/4", AND 1" BOTTOM HOUSING ASSEMBLIES AND DEVICE BRACKETS LISTED. PROVIDE QUANTITY AND LOCATIONS AS INDICATED ON PLANS. COORDINATE TEL/DATA, AND AV OUTLET INSTALLATION WITH TELECOM AND A/V CONTRACTOR.	TWO DUPLEX POWER RECEPTACLES 68REC (ONE PER SIDE) ONE DECORA DATA DEVICE PLATE 8DEC (2 DATA, 1 VOICE, AND 1 CATV OUTLET) ONE CRESTRON DOUBLE GANGE PLATE 8CREST COVER FINISH TO BE SELECTED BY ARCHITECT.

NOTES:
1. DATA CONDUITS SHALL BE STUBBED TO ACCESSIBLE CEILING AREA, COORDINATE WITH IT CONTRACTOR.
2. COORDINATE THE LOCATION OF ALL FLOOR BOXES WITH THE ARCHITECT PRIOR TO INSTALLATION.
3. CAST IRON FLOOR BOXES SHALL BE INSTALLED IN INSTALLATIONS AT GRADE, PER NEC.
4. STAMPED STEEL FLOOR BOXES SHALL BE INSTALLED IN INSTALLATIONS ABOVE GRADE, PER NEC.
5. CONTRACTOR SHALL ENSURE BOX IS AS FLUSH AND LEVEL WITH FLOOR AS POSSIBLE UPON INSTALLATION

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RFS Project #: 9963.003

REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

SHEET NAME
ELECTRICAL EQUIPMENT SCHEDULE

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GOODY CLANCY PROJECT NUMBER: 23026

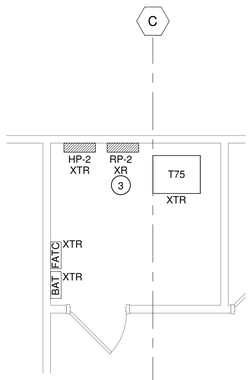
DRAWN: FPW	DATE: 05/01/2024
CHECKED: AMS	SCALE:

DRAWING NO.:

E004

DRAWING NOTES

1. CONDUIT PATHS FROM CEILING IN EXTERIOR WALLS ARE TO REMAIN FOR REUSE.
2. DISCONNECT EXISTING WSHP AND MAKE SAFE FOR REMOVAL. WHERE POSSIBLE CONDUIT AND CABLE SHALL REMAIN FOR CONNECTION TO NEW WSHP.
3. DISCONNECT ALL CIRCUITS IN RP-2 AND REMOVE PANELBOARD. CIRCUITS SHALL REMAIN AND BE EXTENDED TO NEW PANEL IN SAME LOCATION.
4. EXISTING TELECOM BASKET TRAY PATHWAY SUPPORT SYSTEM SHALL REMAIN. REMOVE ALL EXISTING TELECOM CABLE FROM TRAY AND CONDUITS PATHWAY SYSTEM COMPLETE AND DISCARD. REMOVE EXISTING TELECOM WALL OUTLETS, WALL PLATES AND DISCARD.
5. DISCONNECT EXISTING LIGHT FIXTURES AND REMOVE. CIRCUITS FEEDING EXSTING FIXTURES SHALL REMAIN FOR CONNECTION TO NEW LIGHTING.



2 EXISTING SECOND FLOOR ELECTRICAL ROOM PART PLAN
1/4" = 1'-0"

1 LEVEL 2 - ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

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LAKESIDE MILLER RENOVATION

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KEY PLAN

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SHEET NAME
LEVEL 2 - ELECTRICAL DEMOLITION PLAN

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ED101

DRAWING NOTES

1. ALL EXIT SIGNS AND EBU'S SHALL BE WIRE HEAD OF ALL SWITCHING.
2. PROVIDE AIRCRAFT CABLE FOR MOUNTING OF C1 FIXTURES IN CORRIDOR.

1 LEVEL 2 - LIGHTING PLAN
1/8" = 1'-0"

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LEVEL 2 - LIGHTING PLAN

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DRAWING NO.:

E100

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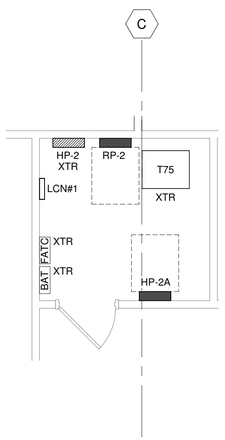
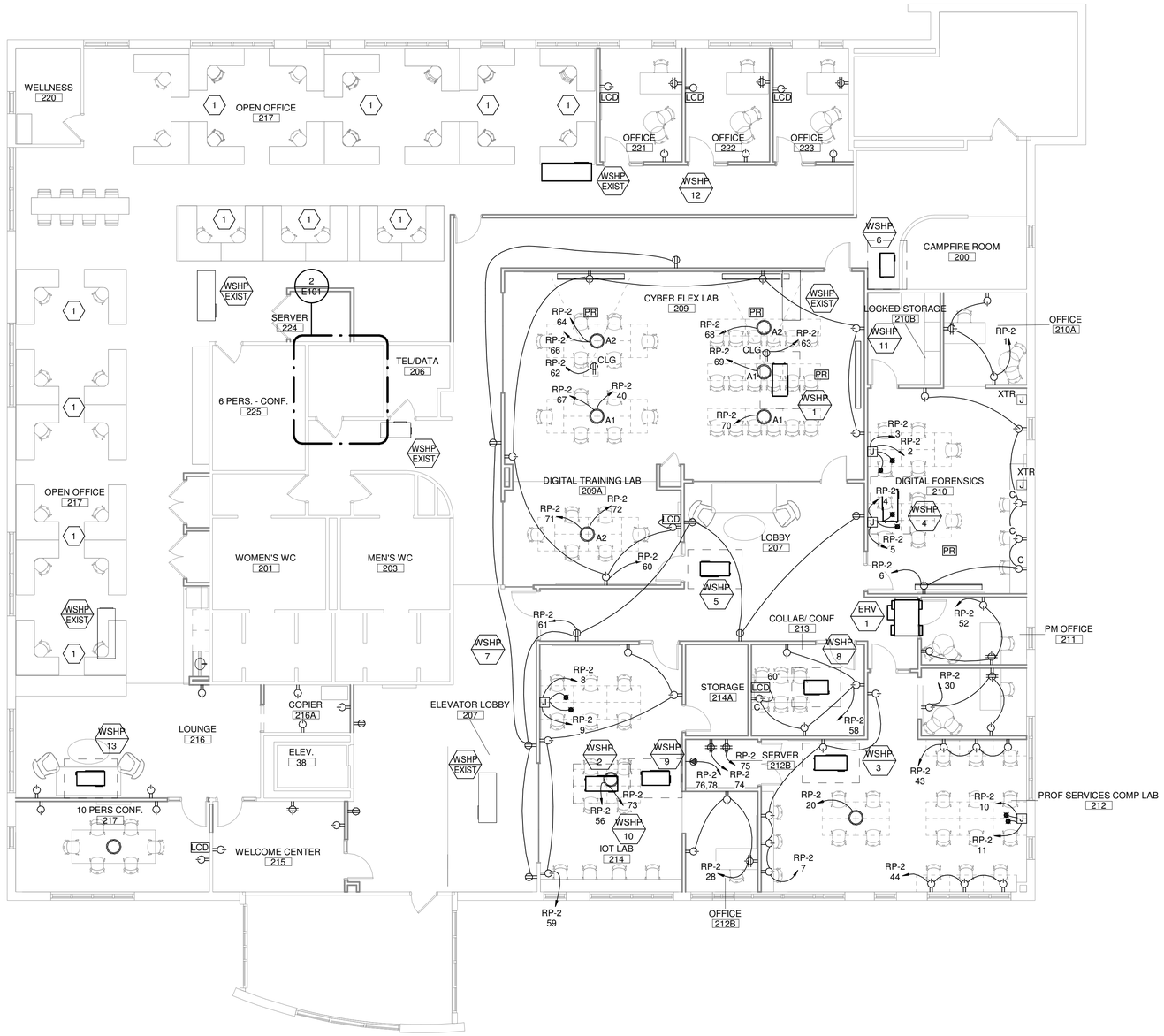
DRAWING NOTES

1. UTILIZE EXISTING CIRCUITS FEEDING EXISTING FURNITURE POWER POLES, RELOCATE POWER POLES TO NEW FURNITURE LAYOUT. PROVIDE ALL MATERIALS REQUIRED TO EXTEND CIRCUITS FURNITURE AT NEW LOCATIONS

2.



2 EXISTING SECOND FLOOR ELECTRICAL ROOM PART PLAN
1/4" = 1'-0"



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

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LEVEL 2 - ELECTRICAL POWER PLAN

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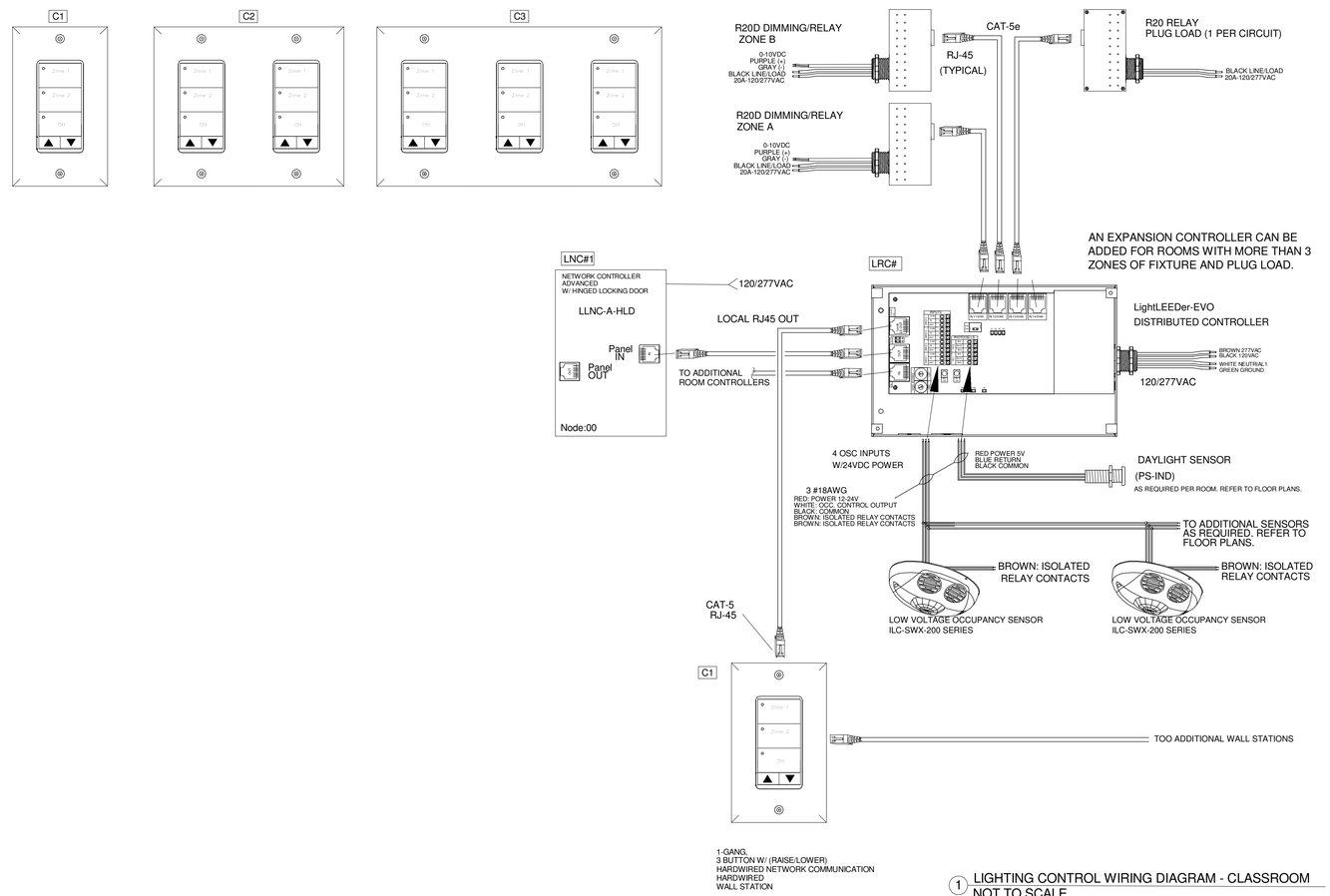
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMP QTY.	LAMP TYPE	VOLT.	WATTS/ FIXT.	REMARKS	EQUIVALENT BY
C1,C2	LED 2' and 4' UTILITY STRIP C1 = 4' C2 = 2'	{METALUX} 2 OR 4- 33SL-FDL-UNV-L835-CD-1 EYE/CHAIN/SET B or Y-TOGGLE CABLE KIT	MULTI	LED 3500K 3300 LUMENS	277V	25 W	CODE GAUGE COLD ROLLED STEEL CHANNEL AND COVER, HOUSING AND ENDCAPS ARE INJECTION MOLDED PLASTIC, FLAT DIFFUSE ACRYLIC LENS 2' AND 4' TYPES PER FLOOR PLANS, BAA COMPLIANT	ACUITY
R22	2x2 RECESSED LED PANEL	{METALUX} 22ARS-L3C3-UNV	MULTI	LED 3500K 3300 LUMENS	277V	20 W	LOW PROFILE RECESSED VOLUMETRIC TROFFER DLC LISTED, DAMP LOCATION LISTED, BAA COMPLIANT	ACUITY
R24	2x4 RECESSED LED PANEL	{METALUX} 24ARS-L3C3-UNV	MULTI	LED 3500K XXX LUMENS	1277V	33 W	LOW PROFILE RECESSED VOLUMETRIC TROFFER DLC LISTED, DAMP LOCATION LISTED, BAA COMPLIANT	ACUITY
X1	LED EXIT SIGN	{SURE-LITES} ES7-1-70-XX-R-XX-XX	MULTI	LED	277V	4.6W	PROVIDE MOUNTING FOR CONFIGURATIONS INDICATED ON PLANS PROVIDE FACES AND CHEVRONS FOR LAYOUT INDICATED ON PLANS PROVIDE STEM MOUNTING KIT AS REQUIRED, PROVIDE SURFACE MOUNT OR RECESSED AS REQUIRED. BAA COMPLIANT	ISOLITE ACUITY EELP EVENLITE
EBU	WALL MOUNTED EMERGENCY BATTERY UNIT	{SURE-LITES} APELH2	MULTI	LED 1100 LUMENS	277V	10.6W	SELF DIAGNOSTICS,BROWN OUT PROTECTION BAA COMPLIANT	ISOLITE ACUITY
P1-# #=LENGTH	LINEAR DIRECET/INDIRECT LED PENDANT FIXTURE	{XICO} MBE140-P-X-MWH-E1-OFL-S80-35-DLAM-X200-NN-NN-UNV-FD01-NN-NN-DJ-RCBK52-S48BK	MULTI	LED 3500K 200 LUMENS FT	277V	2.06FT	EXTRUDED ALUMINUM HOUSING, INTEGREAL DRIVER BAA COMPLIANT	MARK LIGHTING
P2-# #=LENGTH	LINEAR DIRECET LED PENDANT FIXTURE	{XICO} MBE140-P-X-MWH-E1-OFL-S90-35-DLAM-35-NN-UNV-FD01-NN-NN-XX-XX-XX	MULTI	LED 3500K XXX LUMENS FT	277V	3.06FT	EXTRUDED ALUMINUM HOUSING, INTEGREAL DRIVER BAA COMPLIANT	MARK LIGHTING
D1	STEM MOUNTED CYLINDER DOWN LIGHT	{PRUDENTIAL LTG} RDP-9-LED35-SO-NU-TMW-SC-UNV-SSC4'-EBCP1G-TMW-EXCP-DM01	MULTI	LED 3500K 650 LUMENS	277V	10W	EXTRUDED ALUMINUM HOUSING BAA COMPLIANT	ACUITY

NOTES:
1. WIRE ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS AHEAD OF ALL SWITCHING.
2. ALL 0-10VOLT LED DIMMING DRIVERS SHALL MEET THE REQUIREMENTS OF IEC 60929 AND SHALL HAVE AN ISOLATED 0-10VDC CONTROL CIRCUIT.
3. WHERE N/E IS NOTED, PROVIDE FIXTURE WITH TWO (2) DRIVERS. ONE DRIVER SHALL BE POWERED FROM THE NORMAL CIRCUIT AND ONE SHALL BE POWERED FROM THE EMERGENCY CIRCUIT.



1 LIGHTING CONTROL WIRING DIAGRAM - CLASSROOM
NOT TO SCALE

NOTE: WIRING DIAGRAM BASED UPON ILC CONTROLS SYSTEM.
ALL WIRING DIAGRAMS SHALL BE COORDINATED WITH MANUFACTURER AND PROVIDED WITH SUBMITTALS.
SUBMITTALS ARE TO INCLUDE FLOOR PLANS.

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KEY PLAN

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PROJECT STATUS
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SHEET NAME
LIGHTING DETAILS & FIXTURE SCHEDULE

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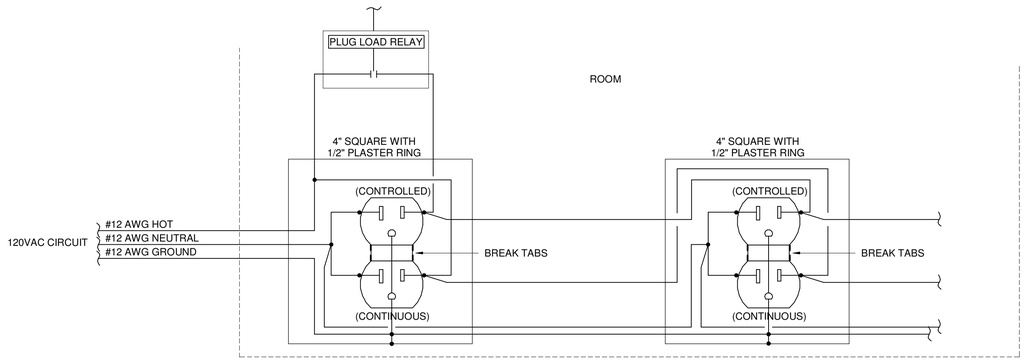
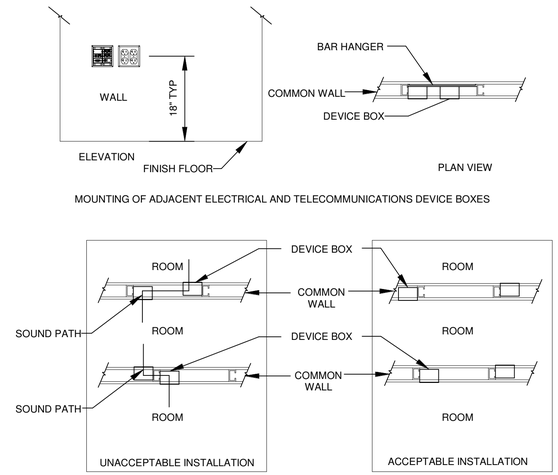


1 TYPICAL CONTROLLED RECEPTACLE WIRING DIAGRAM - SPLIT RECEPTACLE
NOT TO SCALE



2 ACCEPTABLE DEVICE BOX MOUNTING LOCATION
NOT TO SCALE

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SHEET NAME
ELECTRICAL DETAILS

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AUDIO VISUAL SYSTEM LEGEND

AV	AV INPUT PLATE
SC	PROJECTION SCREEN CONTROLLER
LCD	FLAT PANEL DISPLAY LOCATION
	CEILING OR WALL MOUNTED ELECTRIC PROJECTION SCREEN

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT *
C	COUNTER HEIGHT
CLG	CEILING MOUNTED
CUH	CABINET UNIT HEATER *
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN *
EHH	ELECTRICAL HANDHOLE
EMH	ELECTRICAL MANHOLE
FB	FAN BOX *
FIBO	FURNISHED AND INSTALLED BY OWNER/OTHERS
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
LOR	LOCATED ON ROOF
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DOOR **
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OD	OVERHEAD DOOR **
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PUH	PROPELLER UNIT HEATER *
RF	RETURN FAN *
RTU	ROOF TOP UNIT *
SF	SUPPLY FAN *
SPCP	SEWAGE PUMP CONTROL PANEL
S/S	START/STOP PUSH BUTTONS
S. STL	STAINLESS STEEL
THH	TELECOMMUNICATIONS HANDHOLE
TMH	TELECOMMUNICATIONS MANHOLE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VP	VANDAL PROOF
WPCP	WELL PUMP CONTROL PANEL
WG	WIRE GUARD
WUH	WALL MOUNTED UNIT HEATER *
*	EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
**	EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

AUDIO VISUAL TRADE NOTES

AV-1 ALL AUDIO VISUAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND STANDARDS, INCLUDING THE CURRENT NATIONAL ELECTRICAL CODE (NEC). ALL WORK SHALL BE PERFORMED BY CERTIFIED/REGISTERED AUDIO VISUAL TECHNICIANS AND RELATED ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICIANS LICENSED BY THE STATE IN WHICH THE WORK IS PERFORMED.

AV-2 THE AUDIO VISUAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF TELECOMMUNICATION REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.

AV-3 MOUNTING HEIGHTS GIVEN FOR ALL DEVICES ARE TO THE CENTERLINE OF THE JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.

AV-4 CABLING INDICATED ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL NOT BE CONSIDERED TO BE POINT-TO-POINT, UNLESS OTHERWISE NOTED.

AV-5 PROVIDE AND ENSURE PROPER FIREPROOFING OF ALL AUDIO VISUAL CONDUITS AND CABLING THROUGH FIRE RATED ASSEMBLIES.

AV-6 PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.

AV-7 MOUNTING HEIGHT FOR AUDIO VISUAL DEVICES LOCATED ON WALLS ABOVE FINTUBE SHALL BE 4" FROM TOP OF FINTUBE ENCLOSURE TO CENTERLINE OF AUDIO VISUAL DEVICE.

AV-8 ALL COMPONENTS SHOWN ON RISER, BUT NOT SHOWN ON PLANS OR SPEC OR VICE VERSA SHALL BE INCLUDED AS IF LISTED IN ALL DOCUMENTS.

AV-9 CABLE ROUTING SHALL BE COORDINATED WITH OTHER TRADES. CABLES SHALL ALSO BE ACCESSIBLY ROUTED PARALLEL TO BUILDING COLUMN LINES, AND ALL BENDS SHALL BE 90 DEGREES AND MUST ADHERE TO CABLE BEND RADIUS LIMITATIONS, PER STANDARDS OUTLINED IN THE WRITTEN SPECIFICATION.

AV-10 CONTRACTOR TO VERIFY ALL MEASUREMENTS PRIOR TO INSTALLATION OF NEW EQUIPMENT CABLING.

AV-11 SPECIAL ATTENTION SHOULD BE PAID TO THE COORDINATION OF ALL CEILING MOUNTED AUDIO VISUAL OUTLETS AND EQUIPMENT IN AREAS WITH AN ACOUSTIC CEILING SYSTEM (REFER TO ARCHITECTURAL CEILING PLANS). THE CONTRACTOR SHALL BE RESPONSIBLE TO PURCHASE HANGING SYSTEM FROM THE CEILING MANUFACTURER OR AUDIO VISUAL EQUIPMENT MANUFACTURER AND COORDINATE NUMBER AND LOCATION(S) OF ALL CONDUIT, WORK BOXES AND AUDIO VISUAL EQUIPMENT WITH CEILING MANUFACTURERS MAXIMUM LOADING AND ACCEPTABLE LOCATIONS OF HANGERS WITHIN THE CEILING SYSTEM.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO: NFPA, IBC, UL, SMACNA, OSHA, AND NEC.

G-2 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-3 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-4 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. .

G-5 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-6 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

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SHEET NAME
AUDIOVISUAL LEGEND ABBREVIAITIONS & NOTES

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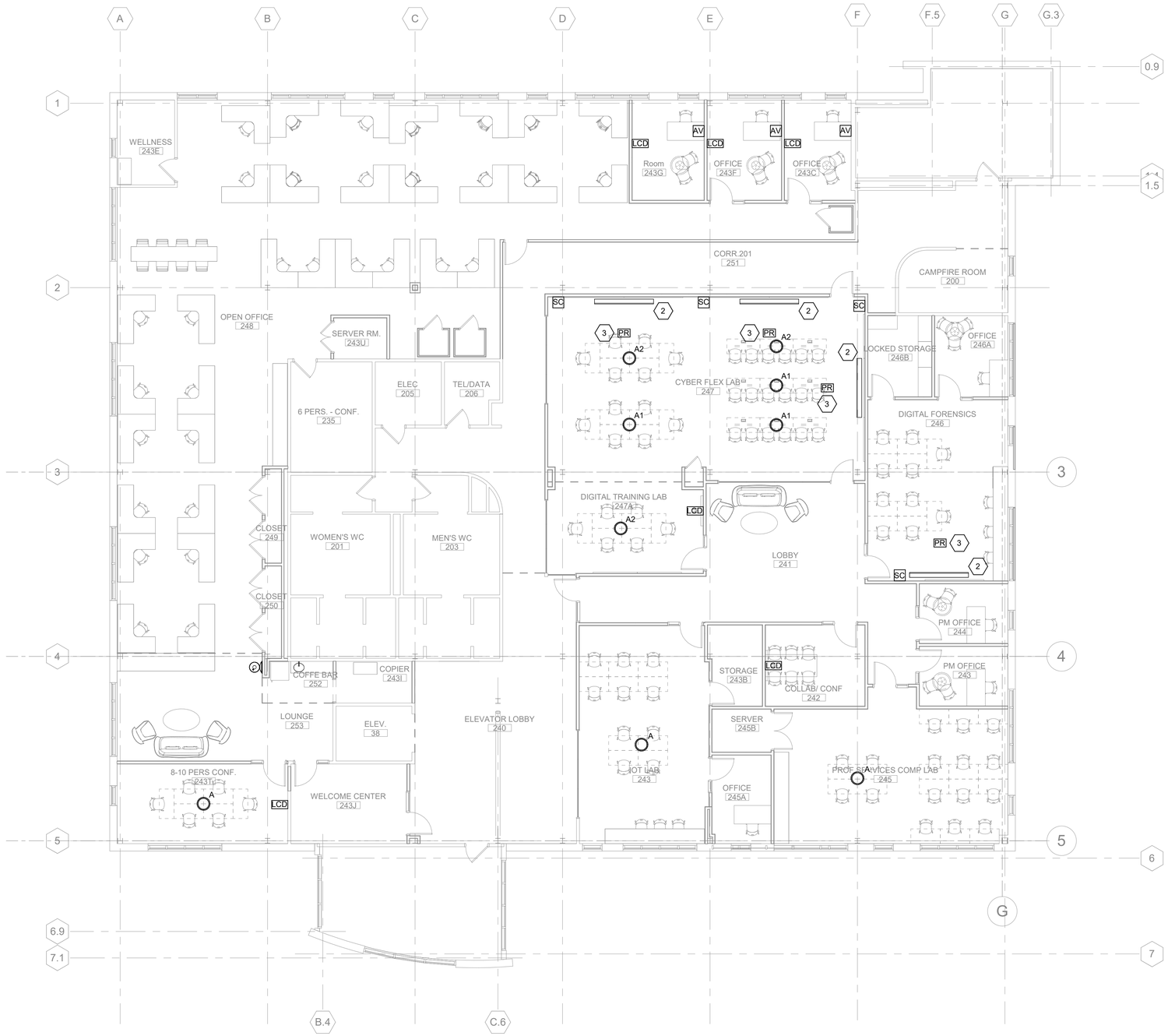
DRAWING NOTES

1. REFER TO ARCHITECTURAL DRAWINGS, DETAILS AND ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL DEVICES PRIOR TO INSTALLATION.

(2) NEW PROJECTION SCREEN. COORDINATE THE FINAL INSTALLATION LOCATION WITH THE OWNER AND AV CONTRACTOR.

(3) NEW PROJECTOR LOCATION. COORDINATE THE FINAL INSTALLATION LOCATION WITH THE OWNER AND AV CONTRACTOR.



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

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LEVEL 2 - AUDIOVISUAL PLAN

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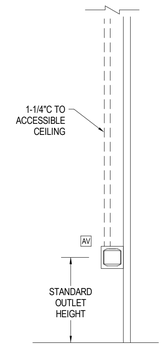
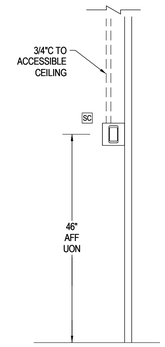


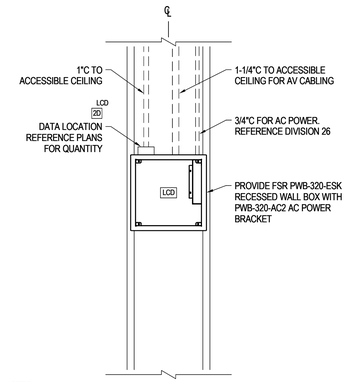
NOTES:
1. PROVIDE RACO 265 4-11/16" SQUARE BOX WITH RACO 819 DOUBLE GANG EXTENSION OR EQUIVALENT.
2. INTERNAL BOX DEPTH SHALL BE NO LESS THAN 3".
3. ELEVATION IS TYPICAL UNLESS OTHERWISE NOTED.
4. PROVIDE BUSHING AND PULL STRING IN ALL LOW VOLTAGE CONDUITS.
5. PROVIDE THE FIRE BARRIER PUTTY PADS IN FIRE RATED WALLS.
6. PROVIDE MASONRY ROUGH-IN BOX FOR CONCRETE WALLS.

3 AV INPUT PLATE INFRASTRUCTURE DETAIL
NO SCALE



NOTES:
1. PROVIDE RACO 265 4-11/16" SQUARE BOX WITH RACO 839 SINGLE GANG EXTENSION OR EQUIVALENT.
2. INTERNAL BOX DEPTH SHALL BE NO LESS THAN 3".
3. ELEVATION IS TYPICAL UNLESS OTHERWISE NOTED.
4. PROVIDE BUSHING AND PULL STRING IN ALL LOW VOLTAGE CONDUITS.
5. PROVIDE THE FIRE BARRIER PUTTY PADS IN FIRE RATED WALLS.
6. PROVIDE MASONRY ROUGH-IN BOX FOR CONCRETE WALLS.

2 SC SCREEN CONTROLLER INFRASTRUCTURE DETAIL
NO SCALE



NOTES:
1. REFERENCE ELEVATION DETAILS FOR DISPLAY SIZE AND MOUNTING HEIGHT.
2. PROVIDE WOOD OR METAL BACKING TO WITHIN 3" FROM THE EDGE OF THE DISPLAY.
3. PROVIDE BUSHING AND PULL STRING FOR ALL LOW VOLTAGE CONDUITS.
4. PROVIDE FSR PWB-323 SERIES WALL BOX FOR USE IN 3" STUD LOCATIONS.
5. PROVIDE THE FSR LIT1611D PWB-FR-450 FOR USE IN FIRE RATED WALLS.

1 WALL MOUNTED DISPLAY RECESSED WALL BOX DETAIL
NO SCALE

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CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION

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RFS Project #: 9963.003

REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

SHEET NAME
AUDIOVISUAL DETAILS

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: BER	DATE: 05/01/2024
CHECKED: DWR	SCALE: NO SCALE

DRAWING NO.:

AV300

TELECOMMUNICATIONS SYSTEM LEGEND

#T #T/#D #T/#D/#C	TELEPHONE/DATA/CABLE OUTLET LOCATION, (T=TELEPHONE,D=DATA,C=CABLE) MH=18"AFF, UON. DOUBLE GANG OUTLET BOX WITH 1"C TO SPACE ABOVE ACCESSIBLE CEILING. PROVIDE SINGLE GANG PLASTER RING. # INDICATES TOTAL NUMBER OF JACKS AND CABLES REQUIRED. (#)"=MOUNTING HEIGHT ABOVE FINISH FLOOR
	SUBSCRIPT DEFINITION
	TBD
A	POKE THRU FLOOR BOX WITH FLUSH COVER PLATE, ROUTE CONDUITS IN ACCESSIBLE CEILING BELOW, SUBSCRIPT DENOTES FLOOR BOX TYPE, REFER TO FLOOR BOX SCHEDULE
▼	TELEPHONE OUTLET LOCATION, MH=44"AFF, UON W = WALL MOUNTED
	FLOOR MOUNTED 2 POST EQUIPMENT RACK
	FLOOR MOUNTED 4 POST EQUIPMENT RACK
WAP	PROVIDE TWO (2) CATEGORY 6A CABLE WITH 10' SERVICE COIL TERMINATED IN FACEPLATES ABOVE CEILING FOR WIRELESS ACCESS POINT.
	BASKET TYPE CABLE TRAY, SIZE INDICATED ON PLAN, SEE SPECIFICATION FOR TYPE
	LADDER TYPE CABLE TRAY, SIZE INDICATED ON PLAN, SEE SPECIFICATION FOR TYPE
— - - - —	TELECOM ROOM SERVING ZONE BOUNDARY LINE
—J—J—J—	PROPOSED J-HOOK ROUTING (MAJOR RUNS) ADDITIONAL J-HOOKS REQUIRED FOR CABLES TO INDIVIDUAL JACKS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT *
C	COUNTER HEIGHT
CLG	CEILING MOUNTED
CUH	CABINET UNIT HEATER *
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN *
EHH	ELECTRICAL HANDHOLE
EMH	ELECTRICAL MANHOLE
FB	FAN BOX *
FIBO	FURNISHED AND INSTALLED BY OWNER/OTHERS
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
LOR	LOCATED ON ROOF
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DOOR **
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OD	OVERHEAD DOOR **
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PUH	PROPELLER UNIT HEATER *
RF	RETURN FAN *
RTU	ROOF TOP UNIT *
SF	SUPPLY FAN *
SPCP	SEWAGE PUMP CONTROL PANEL
S/S	START/STOP PUSH BUTTONS
S. STL	STAINLESS STEEL
THH	TELECOMMUNICATIONS HANDHOLE
TMH	TELECOMMUNICATIONS MANHOLE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VP	VANDAL PROOF
WPCP	WELL PUMP CONTROL PANEL
WG	WIRE GUARD
WUH	WALL MOUNTED UNIT HEATER *
*	EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
**	EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

TELECOMMUNICATION TRADE NOTES

T-1 ALL TELECOMMUNICATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND STANDARDS, INCLUDING ALL ANSI/TIA/EIA STANDARDS RELATED TO TELECOMMUNICATION CABLING SYSTEMS AND THE CURRENT NATIONAL ELECTRICAL CODE (NEC). ALL WORK SHALL BE PERFORMED BY CERTIFIED/REGISTERED TELECOMMUNICATION TECHNICIANS AND RELATED ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICIANS LICENSED BY THE STATE IN WHICH THE WORK IS PERFORMED.

T-2 THE TELECOMMUNICATION CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF TELECOMMUNICATION REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.

T-3 ALL TELECOMMUNICATION HORIZONTAL CABLING CIRCUITS FROM THE MDF/IDF TO THE WALL OUTLET SHALL BE A SINGLE HOMERUN WITH NO SPLICES. CABLING LENGTH SHALL NOT EXCEED 295'(90M).

T-4 MOUNTING HEIGHTS GIVEN FOR ALL TELECOMMUNICATION DEVICES ARE TO THE CENTERLINE OF THE JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.

T-5 REMOVE AND DISPOSE OF EXISTING TELECOMMUNICATION EQUIPMENT AND ASSOCIATED BOXES, CONDUIT AND CABLING WHERE INDICATED OR WHERE LOCATED ON OR WITHIN WALLS AND CEILINGS BEING DEMOLISHED OR ALTERED AS A RESULT OF THIS CONTRACT, UNLESS OTHERWISE INDICATED. IT IS NOT THE INTENT OF THESE DRAWINGS TO INDICATE ALL ELECTRICAL ITEMS TO BE REMOVED.

T-6 CABLING INDICATED ON DRAWINGS IS SCHEMATIC IN NATURE AND SHALL NOT BE CONSIDERED TO BE POINT-TO-POINT, UNLESS OTHERWISE NOTED.

T-7 EXISTING TELECOMMUNICATION ITEMS THAT REMAIN SHALL BE PROTECTED AND RETERMINATED IF NECESSARY, TO ENSURE CONTINUED OPERATION.

T-8 PROVIDE AND ENSURE PROPER FIREPROOFING OF ALL TELECOMMUNICATION CONDUITS AND CABLING THROUGH FIRE RATED ASSEMBLIES.

T-9 PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.

T-10 MOUNTING HEIGHT FOR TELECOMMUNICATION DEVICES LOCATED ON WALLS ABOVE FINTUBE SHALL BE 4" FROM TOP OF FINTUBE ENCLOSURE TO CENTERLINE OF TELECOMMUNICATION DEVICE.

T-11 ALL COMPONENTS SHOWN ON RISER, BUT NOT SHOWN ON PLANS OR SPEC OR VICE VERSA SHALL BE INCLUDED AS IF LISTED IN ALL DOCUMENTS.

T-12 CABLE ROUTING SHALL BE COORDINATED WITH OTHER TRADES. CABLES SHALL ALSO BE ACCESSIBLY ROUTED PARALLEL TO BUILDING COLUMN LINES, AND ALL BENDS SHALL BE 90 DEGREES AND MUST ADHERE TO CABLE BEND RADIUS LIMITATIONS, PER STANDARDS OUTLINED IN THE WRITTEN SPECIFICATION.

T-13 CONTRACTOR TO VERIFY ALL MEASUREMENTS PRIOR TO INSTALLATION OF NEW EQUIPMENT CABLING.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE IS COVERED OR ALLEGED.

G-2 ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO: NFPA, IBC, UL, SMACNA, OSHA, AND NEC.

G-3 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 INFORMATION ON THESE DRAWINGS PERTAINING TO AS-BUILT CONSTRUCTION AND OTHER EXISTING CONDITIONS HAVE BEEN OBTAINED FROM OTHER DOCUMENTATION OR BY FIELD INVESTIGATION. (SEE GENERAL AND SUPPLEMENTAL CONDITIONS FOR LISTING). THIS INFORMATION IS PROVIDED FOR THE CONTRACTOR'S BENEFIT IN PERFORMANCE OF THE WORK.

G-9 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.

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CD CHECK SET
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SHEET NAME
TELECOM LEGEND, ABBREVIATIONS & NOTES

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: DWR	DATE: 05/01/2024
CHECKED: Checker	SCALE: NO SCALE

DRAWING NO.:

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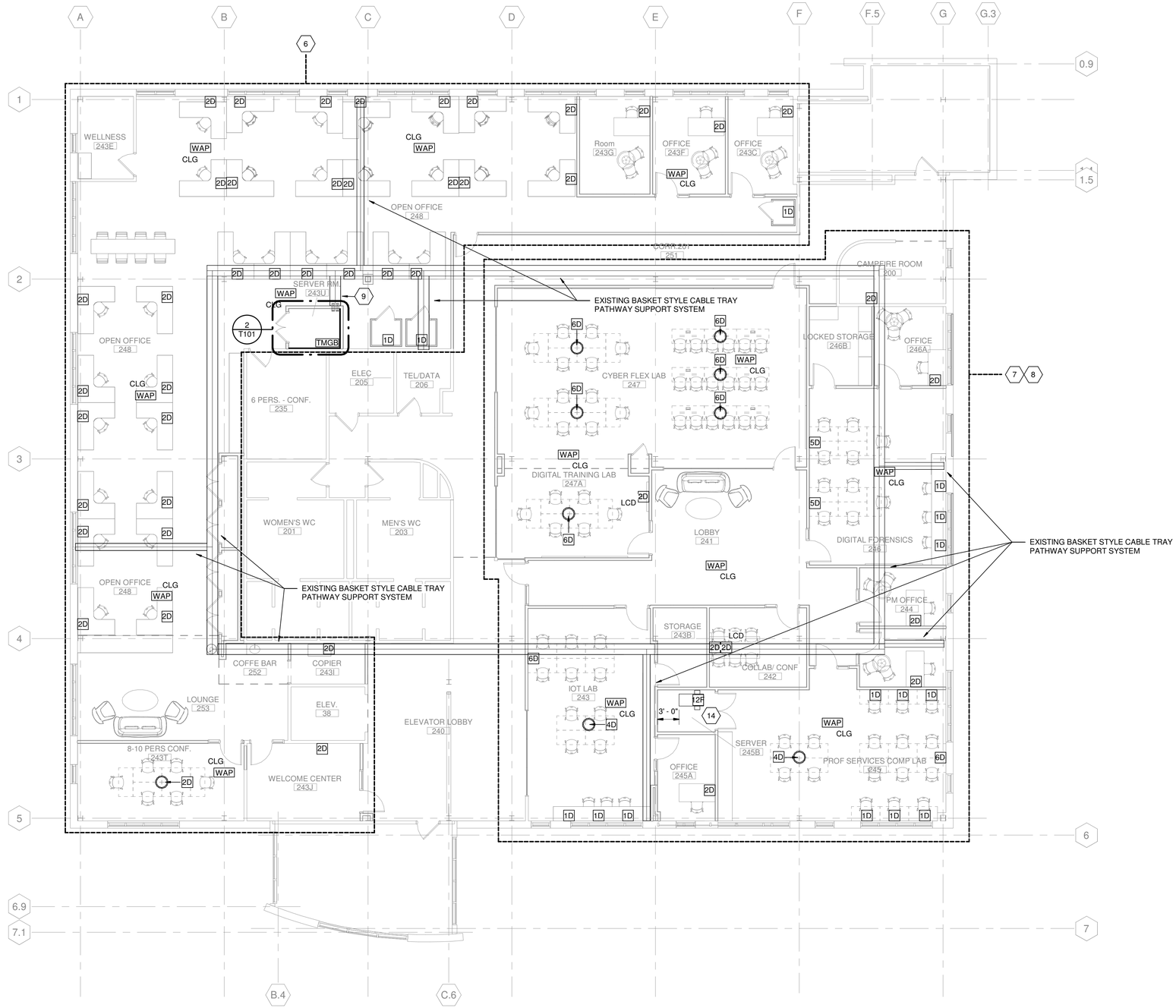
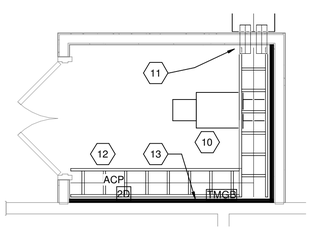
DRAWING NOTES

1. REFER TO ARCHITECTURAL DRAWINGS, DETAILS AND ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL DEVICES PRIOR TO INSTALLATION.
2. WIRELESS ACCESS POINTS (WAP'S) AND MOUNTING HARDWARE OWNER FURNISHED, CONTRACTOR INSTALLED.
3. AT WORK AREA OUTLET (WAO) LOCATIONS OTHER THAN FLOOR BOXES, PROVIDE DOUBLE GANG DEEP WORK BOX WITH SINGLE GANG MUDRING/REDUCER WITH MINIMUM 1-INCH EMT CONDUIT FROM LOCATION TO NEAREST ACCESSIBLE CEILING.
4. CABLE RUN IN EXPOSED AREAS OR ABOVE HARD CEILING SHALL BE IN APPROPRIATE SIZED CONDUIT. FIRESTOP ALL CONDUITS AND PENETRATIONS THROUGH RATED WALLS AND FLOORS AS NEEDED TO RETURN PENTRATED BARRIER TO ORIGINAL RATING.
5. PRIMARY CABLE RUN PATHS SHALL USE EXISTING BASKET TYPE CABLE TRAY SYSTEM AS SHOWN ON DRAWING. FOR CABLE SUPPORT SYSTEM FROM THIS EXISTING TRAY SYSTEM TO THE POINT CABLES ENTER THE CONDUIT RUNNING TO THE WAO, PROVIDE APPROPRIATELY SIZED J-HOOK SUPPORT SYSTEM WITH MAXIMUM SPAN OF SIXTY INCHES (60") BETWEEN HOOKS. J-HOOKS SHALL ATTACH TO BUILDING STRUCTURE WITH MANUFACTURER RECOMMENDED HARDWARE. COORDINATE PATH WITH OTHER TRADES AND EQUIPMENT ABOVE CEILINGS.

6. NEW DATA WORK AREA OUTLET LOCATIONS IN THE AREA BOUNDED BY THIS LINE SHALL RUN TO NEW DATA RACK IN NEW SERVER ROOM 243U.
7. NEW DATA WORK AREA OUTLET LOCATIONS IN THE AREA BOUNDED BY THIS LINE SHALL RUN TO EXISTING DATA RACK IN TEL/DATA ROOM 206.
8. AT EACH WAO LOCATION IN THE AREA BOUNDED BY THIS LINE, IN ADDITION TO WHAT IS SHOWN ON THE DRAWING FOR THE NUMBER OF DATA OUTLETS, PROVIDE ONE (1) ADDITIONAL CATEGORY 6 CABLE UNTERMINATED AND STORED WITHIN WORK BOX BEHIND PLATE. TERMINATE THIS CABLE AT RACK PATCH PANEL IN THE LOGICAL LOCATION WITH OTHER CABLES FROM THAT WAO. LABEL CABLE AT WORK BOX AND AT PATCH PANEL WITH OUTLET NUMBER PLUS THE TEXT "SPARE". PROVIDE MINIMUM 12-INCH SERVICE LOOP AT OR NEAR WAO END OF CATEGORY 6 CABLE RUN.
9. PROVIDE APPROPRIATE LENGTH 12"W X 4"D BASKET STYLE CABLE TRAY AS PATH FROM SERVER ROOM 243U TO EXISTING TELECOM BASKET TRAY AS SHOWN ON DRAWINGS. PROVIDE ALL NECESSARY ATTACHMENT HARDWARE TO CONNECT NEW TRAY TO EXISTING. ATTACH NEW TRAY TO CEILING DECK WITH MANUFACTURER RECOMMENDED HARDWARE AND METHODS.
10. PROVIDE 2-POST OPEN BAY RACK WITH 6-INCH VERTICAL WIRE MANAGERS FOR DATA PATCH PANELS AND OWNER PROVIDED NETWORK EQUIPMENT. PROVIDE 12-STRAND OM3 MULTIMODE FIBER CABLE FROM EXISTING RACK IN EXISTING TEL DATA ROOM 206 TO NEW RACK.
11. PROVIDE INDICATED QUANTITY OF 4-INCH CONDUIT SLEEVES AS CABLE PATH THROUGH WALL. MOUNT AT HEIGHT SIX TO NIINE INCHES (6" - 9") ABOVE HIGHEST LEVEL OF CABLE TRAY. USING CODE COMPLIANT SYSTEM, FIRESTOP CONDUITS AND PENETRATIONS AS NECESSARY TO RETURN PENETRATED BARRIER TO ORIGINAL FIRE RATING.
12. PROVIDE 12"W LADDER TYPE CABLE TRAY AS SHOWN ON DRAWING. MOUNT CABLE TRAY AT 96" AFF TO BOTTOM OF TRAY. PROVIDE RADIUS DROP-OUTS AT ANY POINT CABLE BUNDLE(S) TRANSITION FROM HORIZONTAL (TRAY) TO VERTICAL.
13. PROVIDE FIRE RETARDANT A-C GRADE, VOID-FREE PLYWOOD ON WALLS AS SHOWN IIN DRAWING FROM 12" TO 96" AFF WITH FINISHED SURFACE FACING OUTWARD. PAINT WITH TWO (2) COATS FIRE RETARDANT PAINT. COORDINATE COLOR WITH ARCHITECT.
14. PROVIDE 4-POST OPEN BAY RACK WITH 6-INCH VERTICAL WIRE MANAGERS FOR DATA PATCH PANELS AND OWNER PROVIDED NETWORK EQUIPMENT. PROVIDE 12-STRAND OM3 MULTIMODE FIBER CABLE FROM EXISTING RACK IN EXISTING TEL DATA ROOM 206.



1 LEVEL 2 - TELECOM PLAN
1/8" = 1'-0"



2 SERVER ROOM 243U ENLARGED PLAN
3/8" = 1'-0"

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SHEET NAME
LEVEL 2 - TELECOM PLAN

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DRAWN: Author	DATE: 05/01/2024
CHECKED: Checker	SCALE: As indicated

DRAWING NO.:

T101

ACCESS CONTROL SYSTEM LEGEND

ACP	MASTER ACCESS CONTROL PANEL
DAP	DOOR ACCESS SUB PANEL
MG	MAGNETIC MONITORING CONTACT
DRB	DOOR RELEASE BAR **
EPT	ELECTRIC POWER TRANSFER **
CR	CARD READER
DS	ELECTRIC DOOR STRIKE **
REX	REQUEST TO EXIT INFRARED SENSOR
EL	ELECTRIC LOCK
EH	ELECTRIC HINGE
WL	WIRELESS LOCKSET
###	DOOR TAG, # = DOOR NUMBER

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT *
C	COUNTER HEIGHT
CLG	CEILING MOUNTED
CUH	CABINET UNIT HEATER *
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN *
EHH	ELECTRICAL HANDHOLE
EMH	ELECTRICAL MANHOLE
FB	FAN BOX *
FIBO	FURNISHED AND INSTALLED BY OWNER/OTHERS
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DOOR **
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OD	OVERHEAD DOOR **
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PUH	PROPELLER UNIT HEATER *
RF	RETURN FAN *
RTU	ROOF TOP UNIT *
SF	SUPPLY FAN *
THH	TELECOMMUNICATIONS HANDHOLE
TMH	TELECOMMUNICATIONS MANHOLE
TYP	TYPICAL
VP	VANDAL PROOF
WUH	WALL MOUNTED UNIT HEATER *
*	EQUIPMENT PROVIDED BY MECHANICAL TRADE, WIRED BY ELECTRICAL TRADE
**	EQUIPMENT PROVIDED BY DOOR HARDWARE TRADE, WIRED BY ELECTRICAL TRADE

SECURITY TRADE NOTES

SEC-1 ALL SECURITY RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND THE CURRENT NATIONAL ELECTRICAL CODE (NEC) BY SECURITY CONTRACTORS LICENSED AS AND IF REQUIRED BY THE STATE IN WHICH THE WORK IS PERFORMED.

SEC-2 THE SECURITY CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLING ANY CONDUIT AND/OR CABLE. IF REQUIREMENTS DIFFER FROM THOSE INDICATED, OR IF ADDITIONAL EQUIPMENT IS REQUIRED BY CODE, INFORM THE ENGINEER.

SEC-3 MOUNTING HEIGHTS GIVEN FOR ALL DEVICES (CARD READERS, CAMERAS, ETC.) AND SECURITY EQUIPMENT ARE TO THE CENTERLINE OF THE PANEL OR JUNCTION BOX USED TO MOUNT THE DEVICE, UNLESS OTHERWISE NOTED.

SEC-4 COORDINATE FINAL LOCATIONS OF SECURITY DEVICES AND OTHER EQUIPMENT WITH REFLECTED CEILING PLANS AND ALL OTHER TRADE DRAWINGS PRIOR TO INSTALLATION.

SEC-5 PROVIDE AND ENSURE FIREPROOFING OF ALL CONDUIT, CABLING AND ANY OTHER SECURITY DEVICES THROUGH FIRE RATED MEMBRANES, BARRIERS, OR ASSEMBLIES.

SEC-6 PROVIDE PULL STRINGS IN ALL CONDUIT SYSTEMS LEFT FOR USE BY OTHERS.

SEC-7 PROVIDE EXPANSION FITTINGS IN CONDUIT RISERS FROM ALL EXTERIOR UNDERGROUND CONDUITS TO FIXED EQUIPMENT OR CONDUIT FITTINGS AND PROVIDE FLEXIBLE CONNECTIONS TO ANY EQUIPMENT SUBJECT TO SETTLEMENT OR FROST HEAVES.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL RIST-FROST-SHUMWAY ENGINEERING, P.C., DRAWINGS AND TRADES ASSOCIATED WITH THOSE DRAWINGS INVOLVED ON THIS PROJECT:

G-1 RIST-FROST-SHUMWAY ENGINEERING, P.C., WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF RIST-FROST-SHUMWAY ENGINEERING, P.C., WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE IS COVERED OR ALLEGED.

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G-3 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PROTECT THE WORK SITE, SURROUNDING AREAS AND OCCUPANTS FROM DAMAGE AND INJURY.

G-4 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE ALL CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

G-5 ALL DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN INTENT AND EXTENT OF THE WORK. THEY SHALL BE CONSIDERED PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

G-6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS (AS-BUILT OR OTHERWISE) BEFORE COMMENCING FABRICATION, AND/OR ORDERING MATERIALS.

G-7 DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.

G-8 INFORMATION ON THESE DRAWINGS PERTAINING TO AS-BUILT CONSTRUCTION AND OTHER EXISTING CONDITIONS HAVE BEEN OBTAINED FROM OTHER DOCUMENTATION OR BY FIELD INVESTIGATION. (SEE GENERAL AND SUPPLEMENTAL CONDITIONS FOR LISTING). THIS INFORMATION IS PROVIDED FOR THE CONTRACTOR'S BENEFIT IN PERFORMANCE OF THE WORK.

G-9 IN THE EVENT THE CONTRACTOR ENCOUNTERS MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT/ENGINEER IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: DWR	DATE: 05/01/2024
CHECKED: Checker	SCALE: NO SCALE

DRAWING NO.:

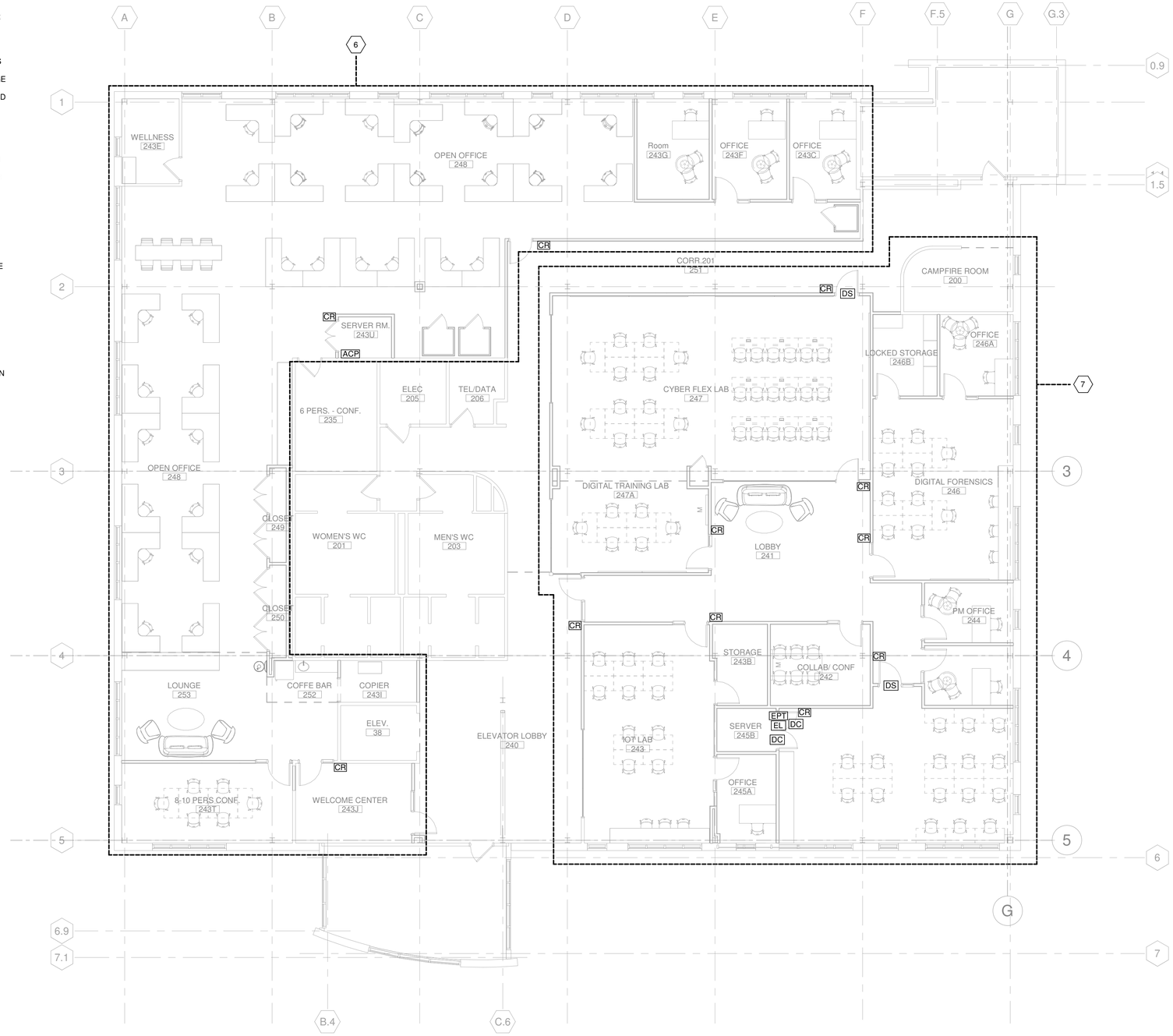
SEC001

DRAWING NOTES

1. REFER TO ARCHITECTURAL DRAWINGS, DETAILS AND ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL DEVICES PRIOR TO INSTALLATION.
2. R
3. THE EQUIPMENT AND ACCESS CONTROL SYSTEM DEPICTED ON DRAWING REPRESENT TWO (2) SEPARATE ACCESS CONTROL SYSTEMS WITH TWO (2) SEPARATE ACCESS CONTROL SYSTEM HEADENDS. ONE SYSTEM SHALL SERVE THE ACADEMIC SPACE FOR CHAMPLAIN COLLEGE AND THE OTHER SYSTEM SHALL SERVE THE SPACED LEASED BY NUHARBOR. THE LOCATION OF THE MAIN ACCESS CONTROL PANEL AND ASSOCIATED POWER SUPPLIES THAT SERVES THE ACADEMIC SPACE FOR CHAMPLAIN COLLEGE IS STILL TBD. THE LOCATION OF THE MAIN ACCESS CONTROL PANEL AND ASSOCIATED POWER SUPPLIES THAT SERVES THE SPACE LEASED BY NUHARBOR SHALL BE NEW SERVER ROOMS 243U.
4. PROVIDE MINIMUM 1-INCH CONDUIT FROM JUNCTION BOX ABOVE EACH HARDWIRED ACCESS CONTROLLED DOOR TO ABOVE NEAREST ACCESSIBLE CEILING. FROM THERE, CABLE SHALL RUN IN J-HOOKS OR TELECOMMUNICATIONS CABLE TRAY TO APPROPRIATE NEAREST EXISTING SECURITY SYSTEM DOOR ACCESS PANEL FOR THE SPACE SERVED BY THAT SYSTEM.
5. ACCESS CONTROL COMPOSITE CABLE FROM ACCESS CONTROLLED DOORS TO MAIN ACCESS CONTROL PANEL, CONDUITS, WORK BOXES, AND PULL STRINGS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. CABLE TERMINATIONS, ACCESS CONTROL DEVICES, PANELS, POWER SUPPLIES, AND EQUIPMENT PROVIDED BY OWNER. PROVIDE MINIMUM 10-FOOT SERVICE LOOP IN ACCESS CONTROL CABLE AT EACH END OF EACH RUN. LABEL EACH CABLE WITH DOOR NUMBER AT ACP END. IN ADDITION TO CONDUIT INFRASTRUCTURE TO DEVICES AT DOOR, PROVIDE MINIMUM 1-INCH CONDUIT FROM ABOVE-DOOR JUNCTION BOX TO NEAREST ACCESSIBLE CEILING. REFER TO DOOR ELEVATION DRAWINGS FOR MORE INFORMATION.

6 ACCESS CONTROLLED DOORS IN THE AREA BOUNDED BY THIS LINE SHALL RUN TO THE MAIN ACCESS CONTROL PANEL (ACP) IN NEW SERVER ROOM 243U.

7 ACCESS CONTROLLED DOORS IN THE AREA BOUNDED BY THIS LINE SHALL RUN TO THE MAIN ACCESS CONTROL PANEL (ACP) IN A LOCATION STILL TBD.



1 LEVEL 2 - SECURITY PLAN
1/8" = 1'-0"

DRAFT

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CHAMPLAIN COLLEGE

LAKESIDE MILLER RENOVATION

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REGISTRATION

KEY PLAN

NORTH

PROJECT STATUS
CD CHECK SET
05/01/2024

SHEET NAME
LEVEL 2 - SECURITY PLAN

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GOODY CLANCY PROJECT NUMBER: 23026

DRAWN: DWR	DATE: 05/01/2024
CHECKED: Checker	SCALE: 1/8" = 1'-0"

DRAWING NO.:

SEC101