

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

**MOFFAT ADMINISTRATION BUILDING RENOVATION**

PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS

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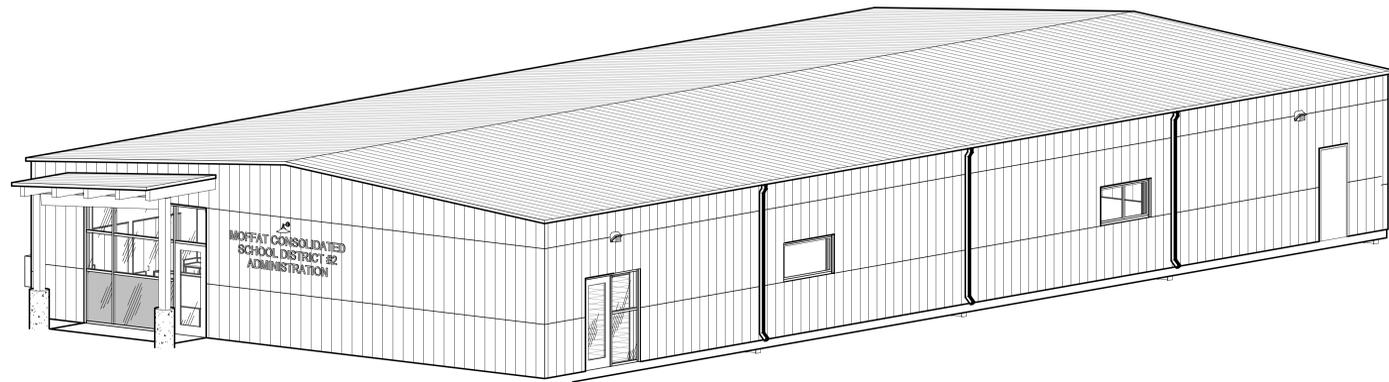
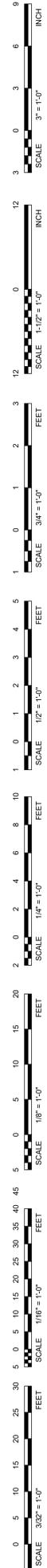
COVER SHEET

# MOFFAT ADMINISTRATION BUILDING RENOVATION

501 GARFIELD AVE., MOFFAT, CO 81143

BVH PROJECT NO. 24031

## CONSTRUCTION DOCUMENTS



**ALTERNATES**

- ALT-01 ENTRANCE CANOPY**  
**BASE BID** - OMIT EXTERIOR ENTRANCE CANOPY AS INDICATED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.  
**ADD ALTERNATE** - PROVIDE EXTERIOR ENTRANCE CANOPY AS INDICATED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ALT-02 INTERIOR WOOD FINISH PANELS**  
**BASE BID** - OMIT INTERIOR WOOD FINISH PANELING WP-1 AT DIVIDER WALL BETWEEN RECEPTION AND THE MEETING ROOM. INSTALL GYP AND PAINT P-1. PROVIDE CORNER GUARDS (CG-1).  
**ADD ALTERNATE** - PROVIDE WOOD FINISH PANELING AS INDICATED ON DRAWINGS AT DIVIDER WALL BETWEEN RECEPTION AND THE MEETING ROOM.
- ALT-03 EXISTING WINDOW REPLACEMENT**  
**BASE BID** - DO NOT REPLACE ONE 6'-0"W X 3'-0"T, TYPE C WINDOW IN THE AREA OF WORK.  
**ADD ALTERNATE 3A** - REPLACE ONE 6'-0"W X 3'-0"T, TYPE C WINDOW IN THE AREA OF WORK, FIXED, INOPERABLE WINDOWS. INCLUDE UNIT PRICING FOR REPLACING EACH 6'-0"W X 4'-0"T EXISTING WINDOW (QTY:6).  
**ADD ALTERNATE 3B** - REPLACE ONE 6'-0"W X 3'-0"T, TYPE C WINDOW IN THE AREA OF WORK WITH AWNING-TYPE WINDOWS AS INDICATED. INCLUDE UNIT PRICING FOR REPLACING EACH 6'-0"W X 3'-0"T EXISTING WINDOW (QTY:6).

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- MP0.4 MECHANICAL AND PLUMBING DETAILS
- MP1.0 MECHANICAL AND PLUMBING DEMOLITION PLAN
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**PLUMBING**

- P1.0 PLUMBING PLAN - DOMESTIC WATER AND GAS
- P2.0 PLUMBING PLAN - SANITARY WASTE AND VENT

**ELECTRICAL**

- E000 ELECTRICAL LEGEND
- E002 ELECTRICAL ONE-LINE DIAGRAMS
- E003 ELECTRICAL COMCHECK
- ED101 ELECTRICAL DEMOLITION POWER PLAN
- ED102 ELECTRICAL DEMOLITION LIGHTING PLAN
- E101 LEVEL 1 POWER PLAN
- E201 ELECTRICAL LIGHTING PLAN

**VICINITY MAP**



**SITE LOGISTICS PLAN**



- AVAILABLE FOR CONTRACTOR PARKING/LAYDOWN
- AVAILABLE FOR LAYDOWN
- RESTROOM IN BUS BARN AVAILABLE FOR CONTRACTOR USE
- SHORT TERM MATERIAL STORAGE AVAILABLE ON SOUTH SIDE OF BUILDING. COORDINATE WITH DISTRICT
- SELECTED CONTRACTOR TO PROVIDE A SITE LOGISTICS PLAN IN ORDER TO COORDINATE WITH OWNER

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**LIFE SAFETY AND  
 CODE ANALYSIS**

**LIFE SAFETY PLAN LEGEND**

- WALL ASSEMBLY LISTINGS**
- WALL - 1HR RATED
  - WALL FIRE PARTITION

- EGRESS SYMBOL**
- OCCUPANT LOAD
  - DIRECTION OF EGRESS

- OCC FUNCTION**
- XXX - IBC FUNCTION OF SPACE
  - XXX - OCCUPANCE USE CLASSIFICATION
  - 150 SF @ XX SF Per Occupant - SPACE SQUARE FOOTAGE AND OCCUPANCY LOAD FACTOR
  - 000 Occupants - OCCUPANT LOAD

- FIRE RATED DOOR  
SEE DOOR SCHEDULE FOR RATING
- NON-RATED DOOR

CONSTRUCTION TYPE V-B		
BUILDING ELEMENT	PRIMARY STRUCTURAL FRAME	0 HR
	BEARING WALLS	EXTERIOR 0 HR INTERIOR 0 HR
NONBEARING WALLS & PARTITIONS	EXTERIOR	0 HR OR BASED ON TABLE 602
	INTERIOR	0 HR
FLOOR CONSTRUCTION		0 HR
ROOF CONSTRUCTION		0 HR
ROOF COVERING CLASS TABLE 1505.1	REQUIRED: C PROVIDED: EXISTING	

**ENERGY CODE**

BUILDINGS SHALL BE DESIGNED AND CONSTRUCTED TO MEET OR EXCEED THE REQUIREMENTS IN THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE.

2021 IECC TABLE C402.1.3(4)			
OPAQUE THERMAL ENVELOPE REQUIREMENTS			
BUILDING ELEMENT	CLIMATE ZONE 6	REQUIRED	PROVIDED
		ROOFS	METAL BUILDINGS
WALLS, BELOW GRADE		U=0.082	NO CHANGE
	METAL BUILDINGS	U=0.060	R27.5 (U=0.036) + (IMPROVED FROM R-11.6)
FLOORS, SLAB-ON-GRADE	UNHEATED	F-0.51	NO CHANGE
	SWINGING	U=0.37	U=0.37
OPAQUE DOORS	NONSWINGING	U=0.31	U=0.31
	TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS		
FENESTRATION	FIXED	U=0.34	U=0.34
	OPERABLE	U=0.42	U=0.42
	ENTRANCE DOORS	U=0.63	U=0.63
SHGC	PF < 0.2	FIXED 0.38, OPERABLE 0.34	SEW 0.38, N 0.51
	0.2 < PF < 0.5	FIXED 0.46, OPERABLE 0.41	NA
	PF > 0.5	FIXED 0.61, OPERABLE 0.54	NA

**LIFE SAFETY AND CODE ANALYSIS**

**PROJECT DESCRIPTION:**  
 THE PROJECT RENOVATES AN EXISTING PRE ENGINEERED METAL BUILDING CURRENTLY USED AS A GARAGE/ SHOP/ STORAGE/ OFFICE USE TO A BUSINESS USE.  
 IEBC REPAIR WORK: REPLACEMENT OF DAMAGED ROOF INSULATION IN AREA OF WORK NOTED ON THE REFLECTED CEILING PLANS  
 LIMITED WORK WILL BE PERFORMED IN THE EXISTING SHOP AREA TO INCLUDE HARDWARE REPLACEMENT AND ADDING A MOP SINK.  
 THE PROJECT IS LOCATED IN SAGUACHE COUNTY, ZONE 6B  
 BUILDING IS NON SPRINKLED

**APPLICABLE CODES:**  
 2021 (IEBC) INTERNATIONAL EXISTING BUILDING CODE  
 2021 (IBC) INTERNATIONAL BUILDING CODE  
 2021 (IFC) INTERNATIONAL FIRE CODE  
 2021 (IECC) INTERNATIONAL ENERGY CONSERVATION CODE  
 2021 (IMC) INTERNATIONAL MECHANICAL CODE  
 2021 (IFC) INTERNATIONAL PLUMBING CODE  
 2023 (NEC) NATIONAL ELECTRIC CODE  
 2017 (ICC/ANSI) ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

**IEBC CHAPTER 4: REPAIRS**  
**SECTION 412 COMPLIANCE**  
 THE WORK SHALL NOT MAKE THE BUILDING LESS COMPLYING THAT IT WAS BEFORE THE REPAIR WAS UNDERTAKEN. WORK ON NONDAMAGED COMPONENTS THAT IS NECESSARY FOR THE REQUIRED REPAIR OF DAMAGED COMPONENTS SHALL BE CONSIDERED PART OF THE REPAIR AND SHALL NOT BE SUBJECT TO THE REQUIREMENTS FOR ALTERATIONS.

**IEBC CHAPTER 5: PRESCRIPTIVE COMPLIANCE PATH**  
**SECTION C503.1 - GENERAL (ALTERATIONS)**  
 ALTERATIONS TO ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC FOR NEW CONSTRUCTION. ALTERATIONS SHALL BE SUCH THAT THE EXISTING BUILDING IS NOT LESS COMPLYING WITH THE PROVISIONS OF THE IBC THAN THE EXISTING BUILDING OR STRUCTURE WAS PRIOR TO THE ALTERATION.

THE FOLLOWING ALTERATIONS NEED NOT COMPLY WITH THE REQUIREMENTS FOR NEW CONSTRUCTION PROVIDED THAT THE ENERGY USE OF THE BUILDING IS NOT INCREASED:  
 3. EXISTING CEILING WALL OR FLOOR CAVITIES EXPOSED DURING CONSTRUCTION PROVIDED THAT THESE CAVITIES ARE FILLED WITH INSULATION

NOTE: MEETING THE PRESCRIBED VALUES AND 2 LAYERS OF INSULATION IS TECHNICALLY INFEASIBLE FOR AN INTERIOR REMODEL WITHOUT REMOVING THE EXISTING METAL PANEL ROOF TO INSTALL AN UPPER LAYER OF INSULATION AND THERMAL SPACERS. INSULATION WILL BE ADDED TO DEPTHS FEASIBLE TO MATCH EXISTING ROOF PURLIN DEPTHS, AND HELD IN PLACE WITH STRAPPING BETWEEN PURLINS.

**IBC CHAPTER 3: OCCUPANCY CLASSIFICATION AND USE:**  
 B - BUSINESS  
 S1 - MODERATE HAZARD STORAGE (SELF STORAGE FACILITY)

**IBC CHAPTER 5: GENERAL BUILDING HEIGHT AND AREAS**

**SECTION 504 - BUILDING HEIGHT AND NUMBER OF STORIES**  
 EXISTING BUILDING IS ONE STORY, APPROXIMATELY 15' TALL  
 NEW CONSTRUCTION DOES NOT INCREASE BUILDING HEIGHT

**SECTION 506 - BUILDING AREA**  
 EXISTING BUILDING IS 5,000 SF GFA  
 NEW CONSTRUCTION DOES NOT INCREASE BUILDING AREA

**SECTION 508 - MIXED OCCUPANCIES**

**TABLE 508.4 - SEPARATED OCCUPANCIES**  
 BETWEEN B AND S-1 = NO REQUIREMENT

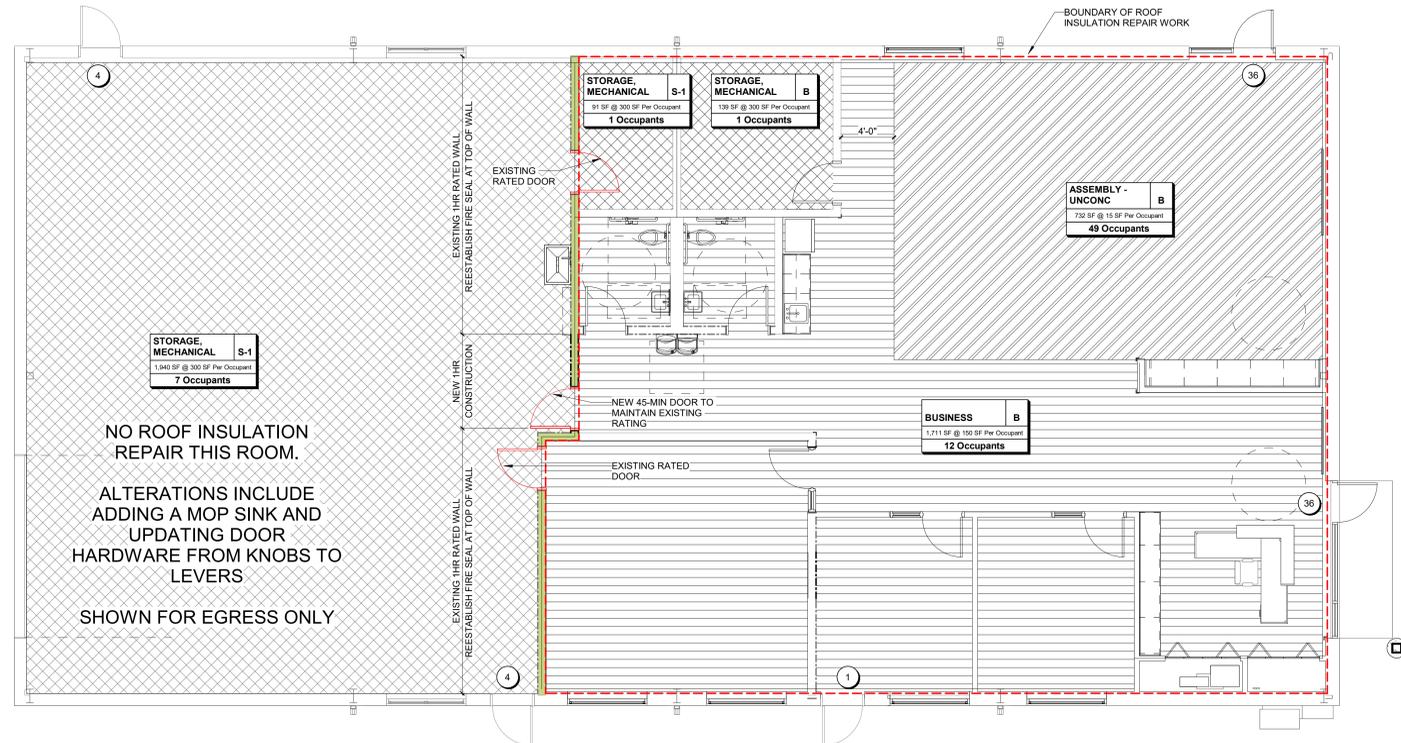
**SECTION 509 - INCIDENTAL USE**  
**TABLE 509.1**  
 BUILDING WAS FORMERLY USED AS VOCATIONAL SHOPS FOR AND EDUCATION OCCUPANCY. 1HR SEPARATIONS EXIST AT ALL PARTITION WALLS

1HR SEPARATION WILL BE MAINTAINED BETWEEN SOUTH SHOP AREA AND THE REST OF THE BUILDING. SOUTH SHOP AREA IS NO LONGER USED FOR EDUCATIONAL PURPOSES

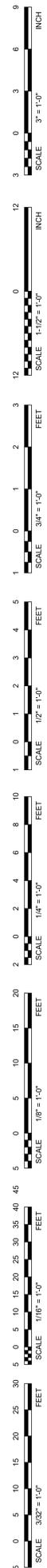
**IBC TABLE 601 - FIRE RESISTANCE RATING REQUIREMENTS:**  
 FIRE RESISTANCE RATING WILL COMPLY WITH REQUIREMENTS OUTLINED BELOW (IBC TABLE 601):

**IBC 2009 FUNCTION OF SPACE**

- ASSEMBLY - UNCONC
- BUSINESS
- STORAGE, MECHANICAL



**1 FIRST FLOOR LIFE SAFETY PLAN**  
 3/16" = 1'-0"



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## WALL TYPES, DRAFTING STANDARDS

WALL TYPE	WIDTH	DESCRIPTION	FIRE RATING	UL TEST	STC (MIN)	STC Test
F60	6 1/8"	2X4 WOOD STUDS 16" O.C. 5/8" GYPSUM BOARD FINISHED SIDE	NA		NA	
W40	4 3/4"	2X4 WOOD STUDS 16" O.C. 5/8" GYPSUM BOARD EACH SIDE	NA		32	RAL-TL11-129
W61	6 3/4"	2X6 WOOD STUDS 16" O.C. 5/8" GYPSUM BOARD EACH SIDE	NA		33	RAL-TL-172
W61	6 3/4"	2X6 WOOD STUDS 16" O.C. 5/8" GYPSUM BOARD, TYPE X EACH SIDE	1 HR	U305, U314 SHM	33	RAL-TL-172

**GENERAL NOTES:**  
SEE SPECIFICATIONS FOR ADDITIONAL WALL DETAILS, STANDARDS, AND REQUIREMENTS.  
SEE DRAWINGS AND UL RATING LISTED IN THE SCHEDULE FOR ADDITIONAL WALL DETAILS, STANDARDS, AND REQUIREMENTS.  
FRAMING DIMENSIONS ARE TAKEN FROM THE FACE OF FRAMING OR CENTERLINE OF FRAMING. INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF FINISHES, TYPICALLY (RESTROOMS IN PARTICULAR) WHERE CLEAR OR HOLD DIMENSIONS ARE STATED, ACCOMMODATE FOR THE THICKNESS OF FINISHES.  
SEAL ALL MECH, ELEC, EQUIPMENT, OR DEVICE PENETRATIONS THROUGH UNRATED FLOORS AND WALLS SMOKE TIGHT. METAL TRIM OR ESCUTCHEONS ALONE ARE NOT ACCEPTABLE. SEE 2009 - IBC SECTION 712.3 FOR FULL CODE REQUIREMENTS.  
SEAL ALL MECH AND ELEC PENETRATIONS THROUGH RATED FLOORS AND WALLS PER THE DESIGNATED OR EQUIVALENT UL DESIGN NUMBER FOR A COMPLETE RATED ASSEMBLY.

## ABBREVIATIONS

- ACC ACCESSIBLE/ACCESSIBILITY
- ACT ACUSTICAL CEILING TILE
- AFF ABOVE FINISH FLOOR
- AHJ AUTHORITY HAVING JURISDICTION
- ALT ALTERNATE
- ALUM ALUMINUM
- ARCH ARCHITECTURAL
- AWP ACOUSTICAL WALL PANEL
- BCMU BURNISHED CONCRETE MASONRY UNIT
- BCS BABY CHANGING STATION
- BD BOARD
- BLKG BLOCKING
- BOF BOTTOM OF
- BRNG BEARING
- CC CENTER TO CENTER
- CCD COILING COUNTER DOOR
- CFP CAST IN PLACE
- CJ CONTROL JOINT
- CL CENTERLINE
- CLG CEILING
- CLR CLEAR
- CMU CONCRETE MASONRY UNIT
- COL COLUMN
- CONG CONCRETE
- CONT CONTINUOUS
- CPT CARPET
- CT CERAMIC TILE
- DBL DOUBLE
- DEG DEGREE
- DF DRINKING FOUNTAIN
- DIA DIAMETER
- DM DIMENSION
- DN DOWN
- DTL DETAIL
- DW DISHWASHER
- DWG DRAWING
- EA EACH
- EIFS EXTERIOR INSULATION AND FINISH SYSTEM
- EJ EXPANSION JOINT
- ELEV ELEVATION
- ELEC ELECTRICAL
- EQU EQUIPMENT
- EWC ELECTRIC WATER COOLER
- EXG EXISTING
- EXT EXTERIOR
- FD FLOOR DRAIN
- FND FOUNDATION
- FE FIRE EXTINGUISHER
- FEC FIRE EXTINGUISHER CABINET
- FF FINISH FLOOR
- FLR FLOOR
- FLRG FLOORING
- FT FEET
- FTG FOOTING
- GA GALUGE
- GALV GALVANIZED
- GB GRAB BAR
- GC GENERAL CONTRACTOR
- GCMU GLAZED CONCRETE MASONRY UNIT
- GSS GROSS SQUARE FOOT
- GW GYPSUM WALLBOARD
- HGT HEIGHT
- HOWE HARDWARE
- HM HOLLOW METAL
- HORIZ HORIZONTAL
- HR HOUR
- IN INCH
- INSUL INSULATION
- INT INTERIOR
- JB JUNCTION BOX
- KIT KITCHEN
- L LENGTH
- LAV LAVATORY
- LAM LAMINATE
- LF LINEAR FOOT
- LGR LOCKER
- LSC LIFE SAFETY CODE
- MAX MAXIMUM
- MBD MARKER BOARD
- MBH MOP AND BROOM HOLDER
- MECH MECHANICAL
- MEZZ MEZZANINE
- MFR MANUFACTURER
- MFRG MANUFACTURING
- MIN MINIMUM
- MIR MIRROR
- NA NOT APPLICABLE
- NIC NOT IN CONTRACT
- NOM NOMINAL
- NTS NOT TO SCALE
- OD OUTSIDE DIAMETER
- OCG OVERHEAD COILING GRILLE
- OHD OVERHEAD DOOR
- ORD OVERFLOW OF DRAIN
- OFCI OWNER FURNISHED CONTRACTOR INSTALLED
- OFOI OWNER FURNISHED OWNER INSTALLED
- OPNG OPENING
- OSD OVERHEAD SECTIONAL DOOR
- P PAINT
- PC PRECAST
- PCT PORCELAIN CERAMIC TILE
- PERP PERPENDICULAR
- PL PLATE
- PLAM PLASTIC LAMINATE
- PLYWD PLYWOOD
- PORC PORCELAIN
- PTD PAPER TOWEL DISPENSER
- PTDR COMBINATION TOWEL DISPENSER/RECEPTACLE
- QT QUARRY TILE
- RAD RADIUS
- RB RUBBER BASE
- RCP REFLECTED CEILING PLAN
- RD ROOF DRAIN
- RECS RECOMMENDATIONS
- RECP RECEPTACLE
- REF REFERENCE
- REOD REQUIRED
- RES RESILIENT
- RF RUBBER/RESILIENT FLOOR
- RM ROOM
- RO ROUGH OPENING
- SCD TOILET SEAT COVER DISPENSER
- SD SOAP DISPENSER
- SF SQUARE FOOT
- SFCMU SPLIT-FACED CONCRETE MASONRY UNIT
- SHWR SHOWER
- SIM SIMILAR
- SND SANITARY NAPKIN DISPOSAL
- SNV SANITARY NAPKIN VENDOR
- SPEC SPECIFICATIONS
- SS STAINLESS STEEL
- STD STANDARD
- STL STEEL
- STRCT STRUCTURE
- TG TONGUE & GROOVE
- TB TOWEL BAR
- TBD TACK BOARD
- TERR TERRAZZO
- TH TOWEL HOOK
- THK THICKNESS
- T TILE
- TO TOP OF
- TTD TOILET TISSUE DISPENSER
- TW TACK WALL
- TYP TYPICAL
- UNEX UNEXCAVATED
- UNO UNLESS NOTED OTHERWISE
- UTS UTILITY SHELF
- UTIL UTILITY
- VAR VARIES
- VB VINYL BASE
- VCT VINYL COMPOSITION TILE
- WD WOOD
- WDW WINDOW
- WR WASTE RECEPTACLE

## MATERIALS LEGEND

- CIP CONCRETE
- PC CONCRETE
- CMU
- MASONRY VENEER
- STEEL
- ALUMINUM
- METAL STUD
- GLAZING
- CONTINUOUS WOOD BLOCKING
- WOOD SHIM/SPACER
- WOOD FINISH/TRIM
- BOARD INSULATION
- ROOF INSULATION
- BATT INSULATION
- PLYWOOD
- GYPSUM BOARD
- EARTH/GENERIC FILL
- GRAVEL
- SAND

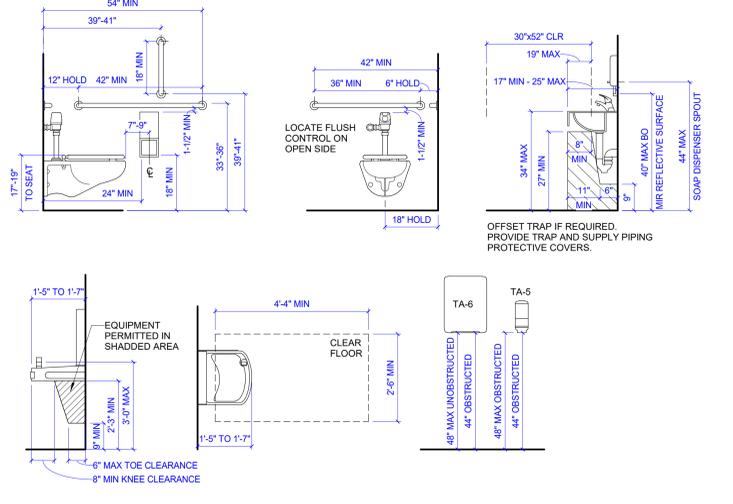
## GENERAL NOTES

NOTES APPLY TO ALL TRADES AND ALL DRAWINGS.  
SEE GENERAL CONDITIONS OF THE CONTRACT FOR FULL SCOPE OF CONTRACTOR REQUIREMENTS.  
DO NOT SCALE DRAWINGS.  
THE KEYNOTING SYSTEM IS USED ON THE DRAWINGS TO IDENTIFY CONSTRUCTION MATERIALS AND TO REFERENCE THEM TO THE TECHNICAL SPECIFICATIONS FOUND IN THE PROJECT MANUAL. THE ORGANIZATION OF THE KEYNOTING SYSTEM ON THE DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG THE SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.  
VERIFY ALL DIMENSIONS AND REQUIRED CLEARANCES BETWEEN EXISTING OR NEW CONDITIONS PRIOR TO FABRICATION AND INSTALLATION.  
THE DRAWINGS SHOW EXISTING CONDITIONS AS ACCURATELY AS POSSIBLE BASED ON AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, LOCATIONS, UTILITIES, EQUIPMENT, ETC. PRIOR TO THE START OF DEMOLITION AND/OR CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.  
CONDUCT OPERATIONS SO AS TO PERMIT PUBLIC ACCESS TO THE ADJACENT SITE, WALKS, DRIVEWAYS, ENTRANCES, ADJACENT PROPERTIES TO BE USED BY THE PUBLIC SHALL BE MAINTAINED IN A SAFE CONDITION AND SHALL BE KEPT FREE AND CLEAR OF THE CONTRACTOR'S EQUIPMENT, MATERIALS, AND DEBRIS.  
CONTRACTOR SHALL COOPERATE WITH THE OWNER IN THE SCHEDULING AND EXECUTION OF THE WORK AND USE OF THE SITE. CONTRACTOR SHALL NOTIFY THE OWNER AND MUNICIPALITIES BEFORE COMMENCEMENT OF ANY WORK OR OPERATION WHICH WOULD INTERFERE WITH THE USE OF AN EXISTING BUILDING OR SURROUNDING SITE/BUILDINGS.  
CONTRACTOR'S OPERATIONS AND STORAGE OF MATERIALS SHALL BE CONFINED TO THE MINIMUM AREA OF THE SITE NECESSARY TO ACCOMPLISH THE WORK. DESIGNATED BY THE INDICATED STAGING AREA. ANY ADDITIONAL STAGING OR STORAGE AREAS SHALL BE APPROVED BY THE LOCAL BUILDING AUTHORITY AND THE OWNER.  
CONTRACTOR SHALL EXERCISE ALL REASONABLE PRECAUTIONS FOR THE PROTECTION OF PERSONS AND PROPERTY ON THE SITE. ALL SAFETY PROVISIONS AND APPLICABLE LAWS FOR BUILDING AND CONSTRUCTION CODES SHALL BE OBSERVED.  
CONTRACTOR SHALL PROTECT THEIR WORK, THE WORK OF OTHERS, AND EXISTING WORK AND PROPERTY SHOWN TO REMAIN. ANY WORK DAMAGED SHALL BE RETURNED TO BETTER OR EQUAL CONDITION.  
SECURITY SHALL BE MAINTAINED IN ALL SITUATIONS.  
CONTRACTOR SHALL PROVIDE TEMPORARY DUSTPROOF ENCLOSURES, DUST BARRIERS, COVERED WALKWAYS AND/OR BARRICADES AS REQUIRED TO PROTECT THE PUBLIC, OCCUPANTS AND EXISTING FACILITIES DURING DEMOLITION AND CONSTRUCTION.

## SYMBOLS LEGEND

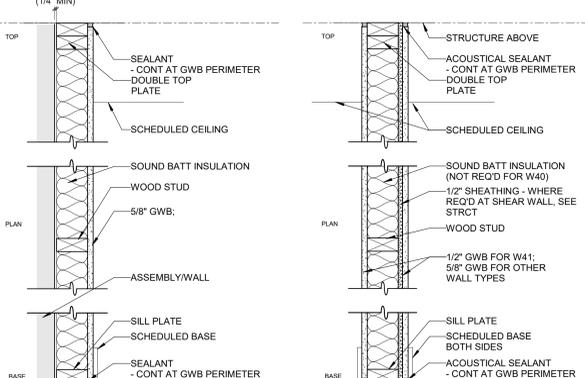
- 1 A101 BUILDING SECTION REFERENCE
- 1 A101 WALL SECTION REFERENCE
- 1 A101 DETAIL REFERENCE
- 1 A101 CALL OUT REFERENCE
- A1 A3.1 BUILDING ELEVATION REFERENCE
- A11 A8.1 INTERIOR ELEVATION REFERENCE
- GL GRIDLINE REFERENCE
- NAME ELEVATION REFERENCE
- ROOM NAME ROOM TAG
- E888 DOOR TAG
- XX WINDOW/FRAME TAG
- XX WALL TAG
- REVISION TAG
- XX-XX MATERIAL/FLOORING REFERENCE
- REFERENCE SLOPE REFERENCE

## ACCESSIBLE PLUMBING FIXTURE GUIDELINES



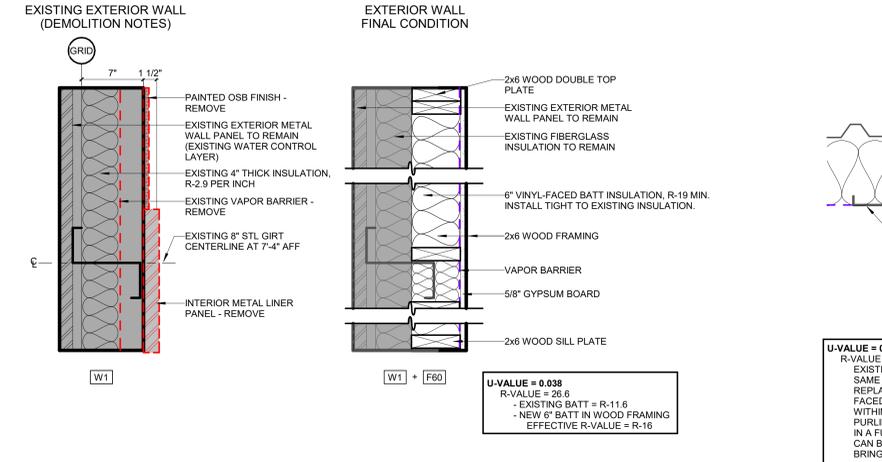
**GENERAL NOTE:**  
ALL MOUNTING HEIGHTS SHALL BE OF CURRENT ACCESSIBILITY GUIDELINES.  
FORWARD REACH TO ACCESSIBLE OPERATING MECHANISMS AND EQUIPMENT CONTROLS SHALL BE 15'-45" AFF AND 15'-54" AFF FOR SIDE REACH WHEN NO OBSTRUCTIONS EXIST. FORWARD REACH TO ACCESSIBLE OPERATING MECHANISMS AND EQUIPMENT CONTROLS SHALL BE 48" MAX. AFF WHERE OBSTRUCTIONS WITH REACH DEPTHS OF 20" MAX. OCCUR AND 44" MAX. AFF WHERE OBSTRUCTIONS WITH REACH DEPTHS OF 20" - 25" MAX. OCCUR.  
ACCESSIBLE COUNTER OR WORK SURFACE HEIGHT SHALL BE 34" MAX. AFF.  
**ADA DRINKING FOUNTAIN CLEARANCES:**  
SPOUT OUTLETS FOR WHEELCHAIR ACCESSIBLE DRINKING FOUNTAINS SHALL BE 36" MAX. AFF. SPOUT OUTLETS FOR STANDING PERSONS SHALL BE 38"-43" AFF.

## TYPICAL WALL DETAILS

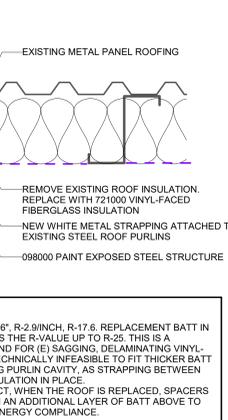


- F41** - 2x4 WOOD STUDS @ 16" OC W/ 5/8" GWB FINISHED SIDE ONLY TO STRUCTURE
- F61** - 2x6 WOOD STUDS @ 16" OC W/ 5/8" GWB FINISHED SIDE ONLY TO STRUCTURE
- W40** - 2x4 WOOD STUDS @ 16" OC W/ 1/2" GWB BOTH SIDES TO STRUCTURE
- W41** - 2x4 WOOD STUDS @ 16" OC W/ 5/8" GWB BOTH SIDES TO STRUCTURE
- W61** - 2x6 WOOD STUDS @ 16" OC W/ 5/8" GWB BOTH SIDES TO STRUCTURE
- W62** - 2x6 WOOD STUDS @ 16" OC ON STRUCTURAL SHEATHING W/ 5/8" GWB BOTH SIDES TO STRUCTURE

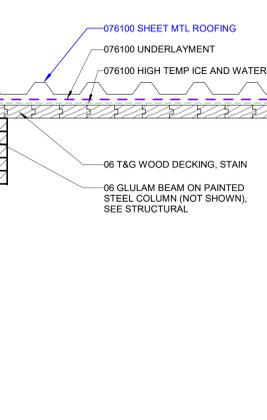
## TYPICAL ASSEMBLIES



## MAIN ROOF REPAIR



## EXTERIOR ROOF CANOPY ASSEMBLY



**U-VALUE = 0.04**  
R-VALUE = 25  
EXISTING BATT WAS 6", R-2.9 INCH, R-17.6. REPLACEMENT BATT IN SAME CAVITY BRINGS THE R-VALUE UP TO R-25. THIS IS A REPLACEMENT IN KIND FOR (E) SAGGING, DELIMITING VINYL-FACED BATT. IT IS TECHNICALLY INFEASIBLE TO FIT THICKER BATT WITHIN THE EXISTING PURLIN CAVITY, AS STRAPPING BETWEEN PURLINS HOLDS INSULATION IN PLACE IN A FUTURE PROJECT, WHEN THE ROOF IS REPLACED, SPACERS CAN BE ADDED WITH AN ADDITIONAL LAYER OF BATT ABOVE TO BRING UP TO FULL ENERGY COMPLIANCE.

### GENERAL DEMOLITION NOTES

1. VERIFY EXISTING FIELD CONDITIONS, REPORT DISCREPANCIES TO ARCHITECT.
2. REFER TO CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AND FOR ITEMS TO REMAIN IN AREAS OF DEMOLITION.
3. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS REGARDING DEMOLITION AND ALTERATION PROCEDURES.
4. DEMOLITION WORK AS SHOWN ON THE DRAWINGS IS TO INDICATE, IN A GENERAL MANNER, THE REMOVAL OFF EXISTING CONSTRUCTION AND IS NOT INTENDED TO BE INCLUSIVE. PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE OR INSTALL ALL WORK FOR ALL TRADES. VERIFY CONDITIONS AT BUILDING SITE.
5. PROTECT EXISTING CONSTRUCTION TO REMAIN. ALL CONSTRUCTION TO REMAIN WHICH AFFECTED BY DEMOLITION SHALL BE PATCHED, REPAIRED, PROPERLY MEMBERED, AND ALIGNED AS TO LEAVE NO EVIDENCE OF REPAIR.
6. CLEAN AND PREPARE ALL SURFACES SCHEDULED TO RECEIVE NEW FINISHES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS NOT REMOVED BY OWNER. OWNER RESERVES THE RIGHT TO SALVAGE ITEMS REMOVED BY CONTRACTOR.
8. REMOVE ALL FLOORWALL/CEILING MOUNTED ITEMS, DEVICES, CONDUIT, ETC. TO ACCOMMODATE NEW WORK. OWNER RESERVES THE RIGHT TO SALVAGE ITEMS REMOVED BY CONTRACTOR.

### DEMOLITION PLAN LEGEND

- EXISTING ITEMS**
- EXISTING ITEM TO REMAIN
  - EXISTING WALL TO REMAIN
  - EXISTING DOOR TO REMAIN
- DEMOLITION ITEMS**
- EXISTING CONSTRUCTION TO BE REMOVED/DEMOLISHED. SEE NOTES AND FINAL CONSTRUCTION FOR EXTENTS OF REMOVAL.
  - WINDOW TO BE REMOVED
  - DOOR TO BE DEMOLISHED/REMOVED OR MODIFIED PER KEYNOTES OR GENERAL DEMO NOTES

### KEYNOTE LEGEND

SECTION	DESCRIPTION
024119.A5	REMOVE EXISTING WINDOW
024119.A6	REMOVE EXISTING OVERHEAD DOOR AND TRACK
024119.A7	CREATE OPENING IN EXTERIOR WALL FOR NEW WORK
024119.A8	REMOVE EXISTING EYEWASH
024119.A9	REMOVE EXISTING CHALKBOARD
024119.A10	REMOVE EXISTING CEILING SYSTEM
024119.A11	SALVAGE EXISTING TOILET ACCESSORIES (SOAP DISPENSER, TOILET PAPER HOLDER, PAPER TOWEL DISPENSER) AND TURN OVER TO OWNER TO BE REINSTALLED
024119.A14	REMOVE EXISTING WINDOW - ALT 03
024119.A58	EXISTING SECURITY AND IT INFRASTRUCTURE TO REMAIN

### REVISIONS SCHEDULE

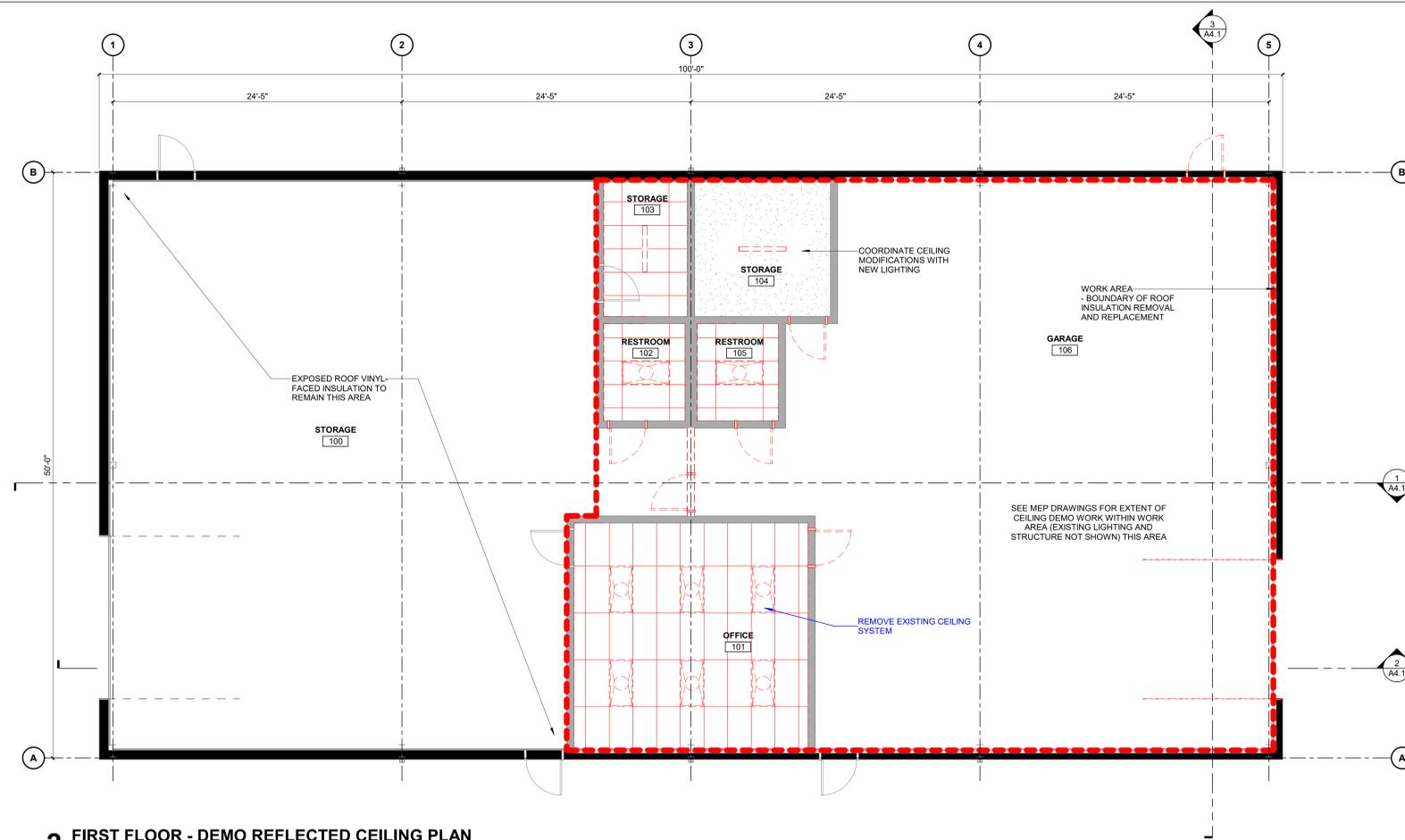
MARK	DATE	DESCRIPTION
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### MOFFAT ADMINISTRATION BUILDING RENOVATION

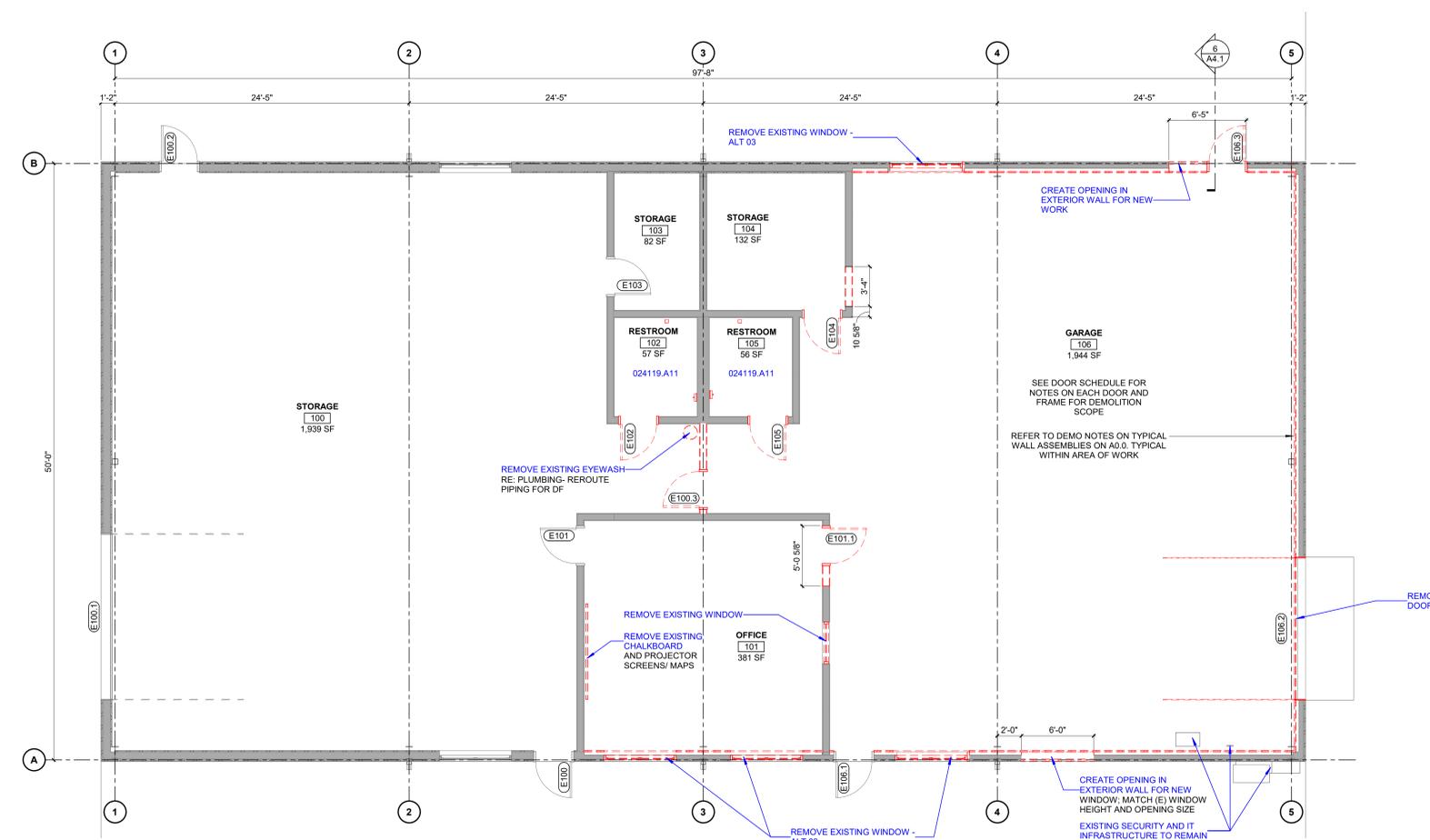
PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS



### DEMOLITION PLAN, RCP



**2 FIRST FLOOR - DEMO REFLECTED CEILING PLAN**  
 3/16" = 1'-0"



**1 FIRST FLOOR - DEMOLITION PLAN**  
 3/16" = 1'-0"

Vertical scale bars on the left side of the drawing, showing scales in inches and feet for different sections of the plan.



**GENERAL DEMOLITION NOTES**

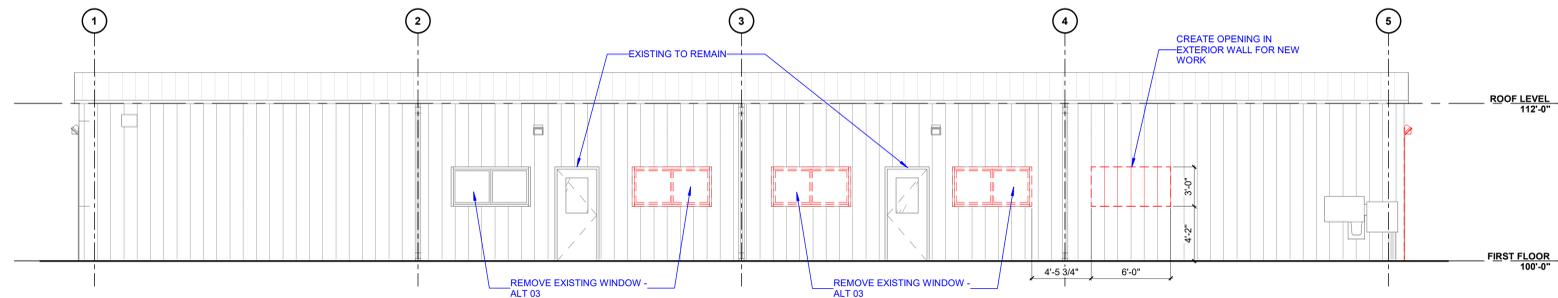
1. VERIFY EXISTING FIELD CONDITIONS, REPORT DISCREPANCIES TO ARCHITECT.
2. REFER TO CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AND FOR ITEMS TO REMAIN IN AREAS OF DEMOLITION.
3. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS REGARDING DEMOLITION AND ALTERATION PROCEDURES.
4. DEMOLITION WORK AS SHOWN ON THE DRAWINGS IS TO INDICATE, IN A GENERAL MANNER, THE REMOVAL OF EXISTING CONSTRUCTION AND IS NOT INTENDED TO BE INCLUSIVE. PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE OR INSTALL ALL WORK FOR ALL TRADES. VERIFY CONDITIONS AT BUILDING SITE.
5. PROTECT EXISTING CONSTRUCTION TO REMAIN. ALL CONSTRUCTION TO REMAIN WHICH AFFECTED BY DEMOLITION SHALL BE PATCHED, REPAIRED, PROPERLY MEMBERED, AND ALIGNED AS TO LEAVE NO EVIDENCE OF REPAIR.
6. CLEAN AND PREPARE ALL SURFACES SCHEDULED TO RECEIVE NEW FINISHES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS NOT REMOVED BY OWNER. OWNER RESERVES THE RIGHT TO SALVAGE ITEMS REMOVED BY CONTRACTOR.
8. REMOVE ALL FLOOR/WALL/CEILING MOUNTED ITEMS, DEVICES, CONDUIT, ETC. TO ACCOMMODATE NEW WORK. OWNER RESERVES THE RIGHT TO SALVAGE ITEMS REMOVED BY CONTRACTOR.

**DEMOLITION PLAN LEGEND**

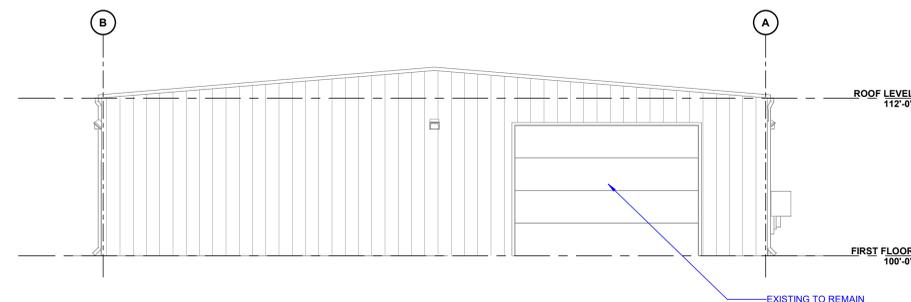
- EXISTING TO REMAIN
- - - AREAS OF DEMOLITION

**KEYNOTE LEGEND**

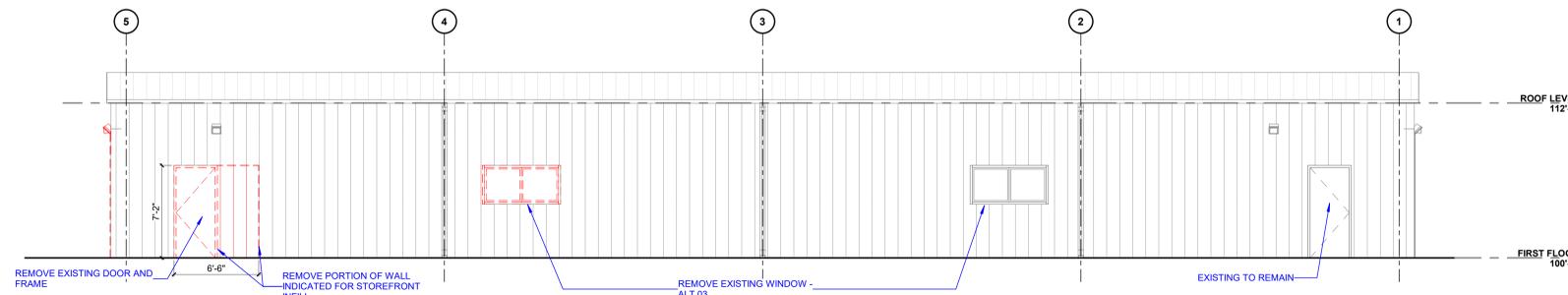
SECTION	DESCRIPTION
024119.A3	REMOVE EXISTING DOOR AND FRAME
024119.A6	REMOVE EXISTING OVERHEAD DOOR AND TRACK
024119.A7	CREATE OPENING IN EXTERIOR WALL FOR NEW WORK
024119.A12	REMOVE EXISTING LIGHT FIXTURE. REPLACE WITH NEW
024119.A13	REMOVE PORTION OF WALL INDICATED FOR STOREFRONT INFILL
024119.A14	REMOVE EXISTING WINDOW - ALT 03
024119.A50	EXISTING TO REMAIN



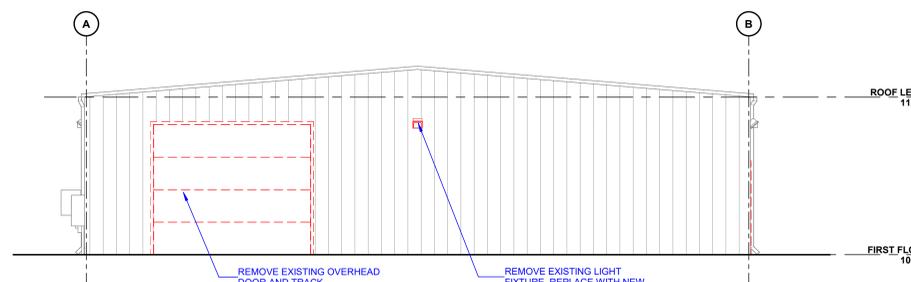
**1 EAST ELEVATION DEMO**  
 3/16" = 1'-0"



**2 SOUTH ELEVATION DEMO**  
 3/16" = 1'-0"



**3 WEST ELEVATION DEMO**  
 3/16" = 1'-0"



**4 NORTH ELEVATION DEMO**  
 3/16" = 1'-0"

Vertical scale bars for each elevation: 3" = 1'-0", 1-1/2" = 1'-0", 3/4" = 1'-0", 1/2" = 1'-0", 1/4" = 1'-0", 1/8" = 1'-0", 1/16" = 1'-0", 3/32" = 1'-0".

### RCP FINISHES NOTES

1. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
2. ALL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE CENTERED IN THE CEILING TILE UNLESS NOTED OTHERWISE.
3. IN AREAS WITH AN EXPOSED STRUCTURE, COORDINATE ALL EQUIPMENT, DEVICES, AND FIXTURES FOR A CLEAN AND ORDERED APPEARANCE.
4. REFER TO MATERIALS LIST FOR CEILING TYPES

### GRAPHIC LEGEND

MECHANICAL ITEMS: SEE MECHANICAL

- RETURN GRILLES
- SUPPLY DIFFUSER

LIGHT FIXTURES: SEE ELECTRICAL

- LIGHT FIXTURES

### KEYNOTE LEGEND

SECTION	DESCRIPTION
024119.A52	EXISTING METAL PANEL TO REMAIN
024119.A63	EXISTING CEILING GRID TO REMAIN - CEILING TILE REPLACEMENT BY OWNER
092900.A6	ADD ONE LAYER OF 3/8" DRYWALL OR SKIM COAT WALLS TO PROVIDE A SMOOTH FINISH (EQUAL TO A LEVEL 4 DRYWALL FINISH) ON 3 EXISTING WALLS TO REMAIN THIS ROOM.
099123.A6	099123 PAINT EXPOSED ROOF PURLINS
224216.14	224216 MOP SINK

### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION

### FLOOR PLAN GENERAL NOTES

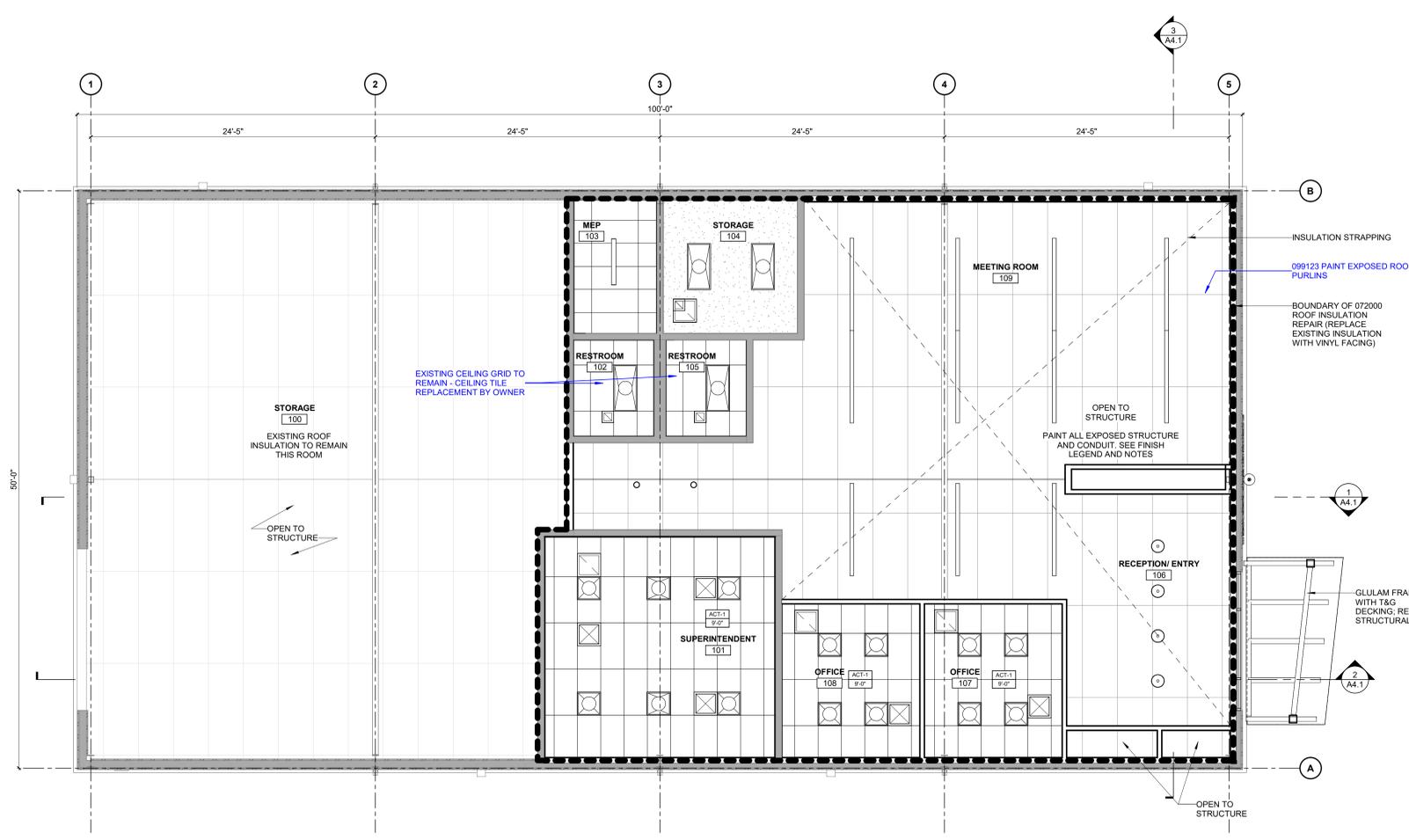
1. ALL DIMENSIONS ARE TO CENTERLINE OF WALL UNLESS NOTED OTHERWISE.
2. PROVIDE JOINT SEALANT AT EXISTING CRACKS IN CONCRETE SLAB, LEVEL WITH ADJACENT SURFACES.
3. CLEAN CONCRETE FLOORS PRIOR TO INSTALLING FINISHES.
4. FURNITURE IS PROVIDED BY OWNER, NIC.

### MOFFAT ADMINISTRATION BUILDING RENOVATION

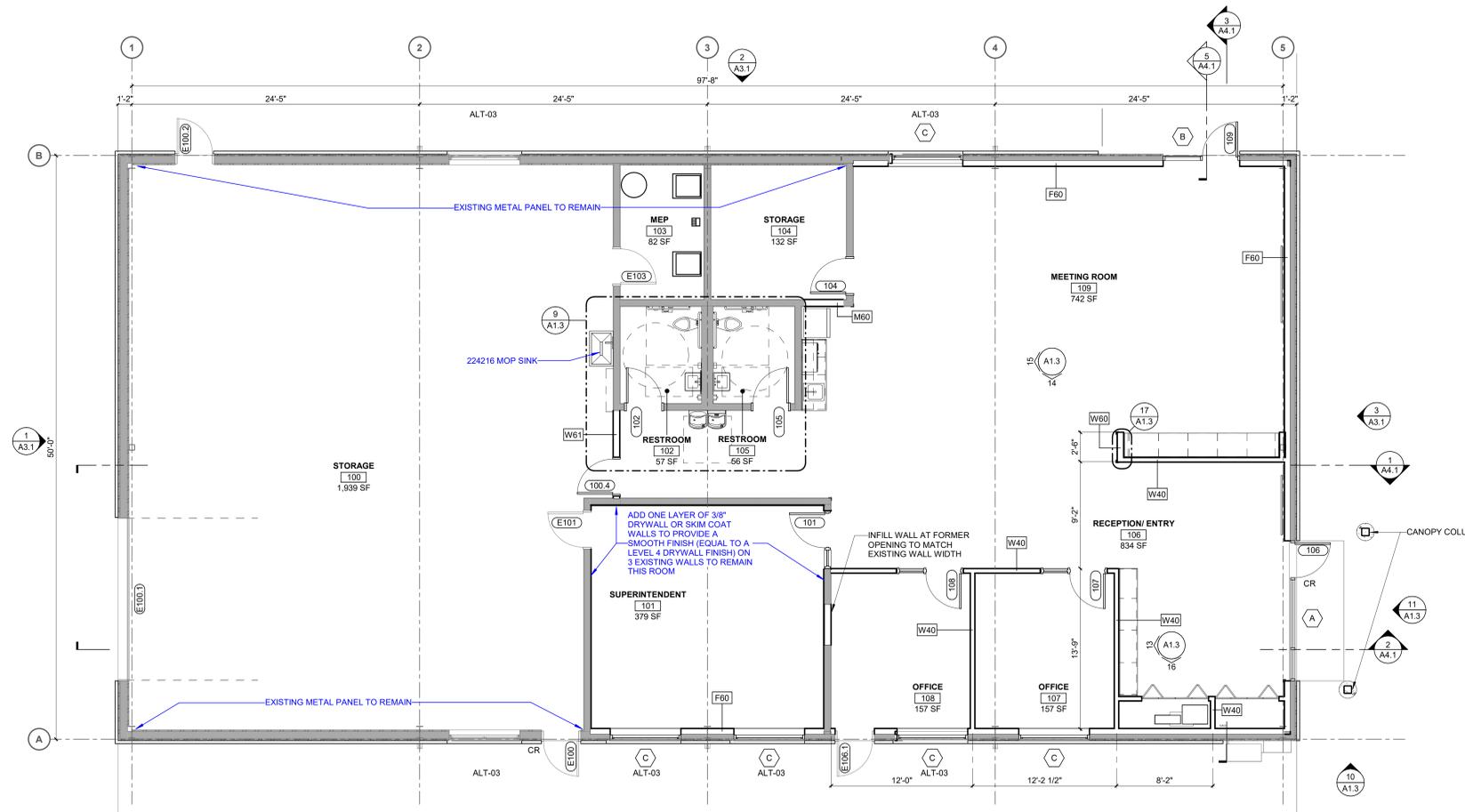
PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS



### FIRST FLOOR PLAN, RCP



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



**1 FLOOR PLAN**  
 3/16" = 1'-0" FURNITURE SHOWN FOR REFERENCE ONLY - NIC

Vertical scale bars on the left side of the page, showing scales in inches and feet for both the Reflected Ceiling Plan and the Floor Plan.

### ROOF PLAN NOTES

1. PROVIDE 8" MIN CLEARANCE AT ALL CURBS, PARAPETS, AND FLASHINGS ABOVE THE ROOF TO WALL TRANSITION UNO.
2. SEE STRUCT FOR FRAMING REQUIREMENTS AROUND ROOF PENETRATIONS AND EQUIPMENT.
3. COORDINATE SIZE AND LOCATIONS OF ALL ROOF PENETRATIONS AND EQUIPMENT. SEE MECH AND ELEC DRAWINGS FOR ANY EQUIPMENT NOT SHOWN. FLASH AND SEAL ALL EQUIPMENT AND TRANSITIONS PER ROOFING MFR'S RECOMMENDATIONS.
4. PROVIDE CRICKETS AT ALL ROOF PENETRATIONS.
5. ROOFING PENETRATIONS ARE NOT ALLOWED WITHIN 48" OF FIRE WALLS. SEE CODE PLAN FOR FIRE WALL LOCATIONS (IF APPLICABLE).

### KEYNOTE LEGEND

SECTION	DESCRIPTION
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### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION
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### MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS

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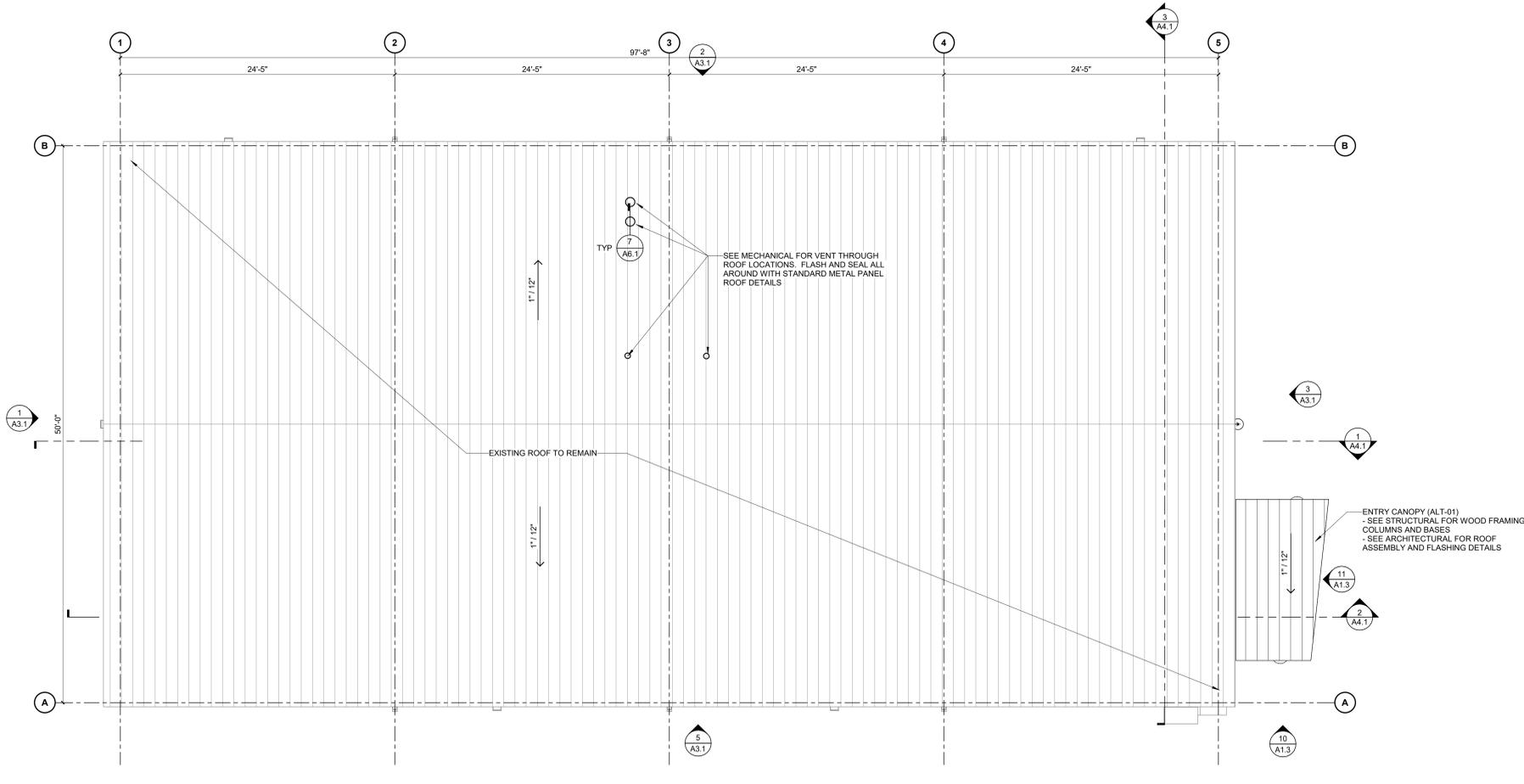


### ROOF PLAN

NORTH



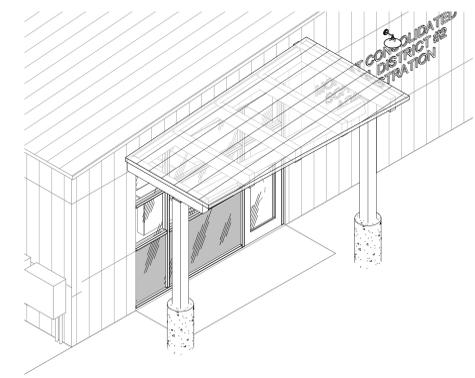
# A1.2



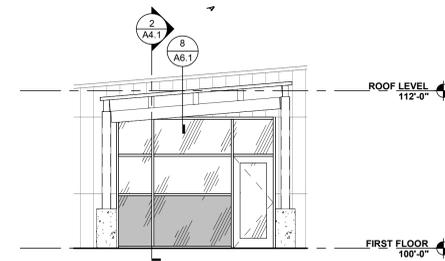
**1 ROOF PLAN**  
 3/16" = 1'-0"

Vertical scale bars on the left side of the drawing, including scales for 1/8" = 1'-0", 1/4" = 1'-0", 1/2" = 1'-0", 3/4" = 1'-0", and 3/16" = 1'-0".

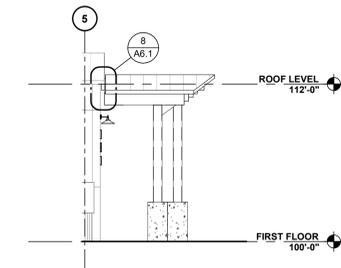
102800 TOILET, BATH, AND LAUNDRY ACCESSORIES			
MARK	Keynote	DESCRIPTION	COMMENTS
TA-1	102800.A15	GRAB BAR - 36"	
TA-2	102800.A15	GRAB BAR - 42"	
TA-3	102800.A15	GRAB BAR - 18"	VERTICAL
TA-4	102800.A1	TOILET PAPER DISPENSER	SALVAGE AND REINSTALL
TA-5	102800.A3	SOAP DISPENSER	SALVAGE AND REINSTALL
TA-6	102800.A19	PAPER TOWEL DISPENSER	SALVAGE AND REINSTALL
TA-11	102800.A14	MIRROR	
TA-14	102800.A13	COMBINATION SHELF, MOP/BROOM HOLDER	



**12 ENTRY CANOPY 3D VIEW**  
 FOR REFERENCE ONLY



**11 ENTRY CANOPY - NORTH ELEVATION**  
 3/16" = 1'-0"  
 FOR REFERENCE ONLY



**10 ENTRY CANOPY - SOUTH ELEVATION**  
 3/16" = 1'-0"  
 FOR REFERENCE ONLY

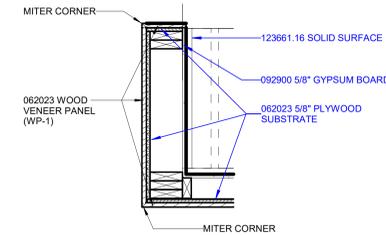
REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

**MOFFAT  
 ADMINISTRATION  
 BUILDING RENOVATION**

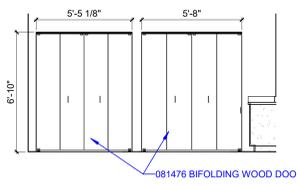
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 PROJECT STATUS: CONSTRUCTION DOCUMENTS  
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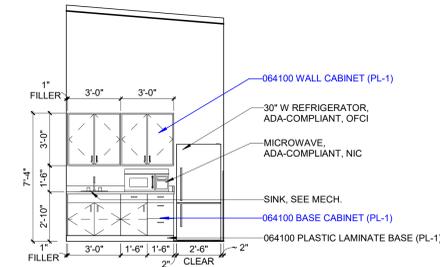
**ENLARGED PLANS  
 AND ELEVATIONS**



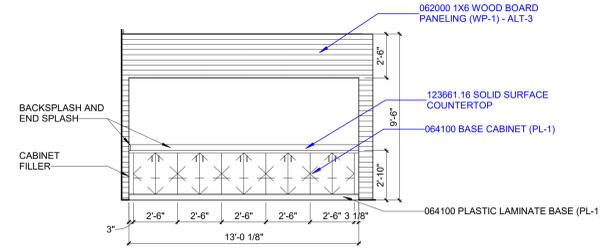
**17 WOOD PLANK ACCENT WALL (ALT-2)**  
 1" = 1'-0"



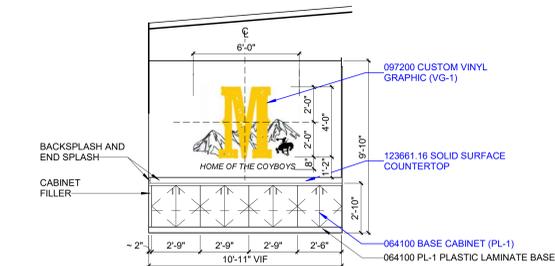
**16 INTERIOR ELEVATION - BIFOLD DOORS**  
 1/4" = 1'-0"



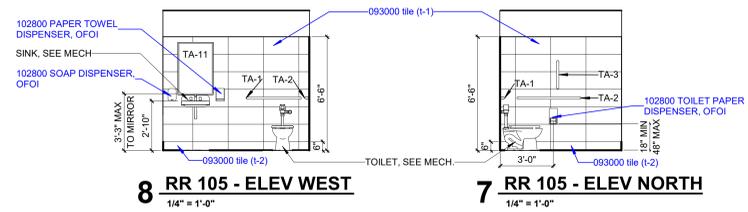
**15 INTERIOR ELEVATION - KITCHENETTE**  
 1/4" = 1'-0"



**14 CONFERENCE ROOM CABINETY**  
 1/4" = 1'-0"

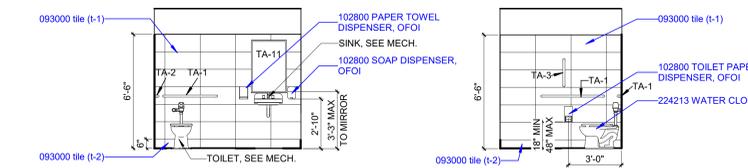


**13 RECEPTION CABINETY**  
 1/4" = 1'-0"



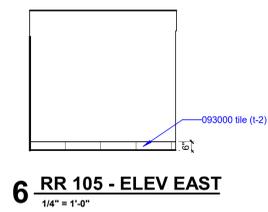
**8 RR 105 - ELEV WEST**  
 1/4" = 1'-0"

**7 RR 105 - ELEV NORTH**  
 1/4" = 1'-0"

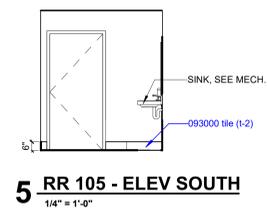


**4 RR 102 ELEV EAST**  
 1/4" = 1'-0"

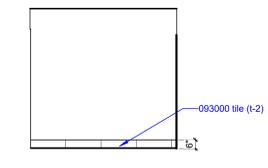
**3 RR 102 - ELEV NORTH**  
 1/4" = 1'-0"



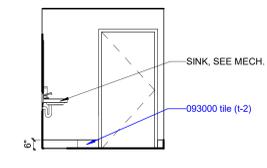
**6 RR 105 - ELEV EAST**  
 1/4" = 1'-0"



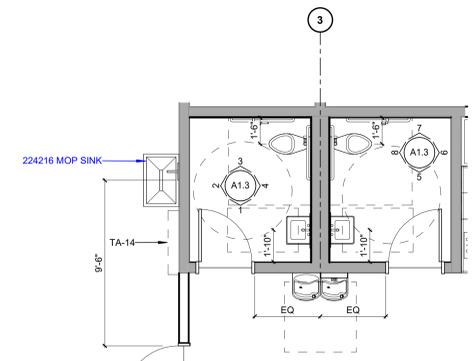
**5 RR 105 - ELEV SOUTH**  
 1/4" = 1'-0"



**2 RR 102 - ELEV WEST**  
 1/4" = 1'-0"



**1 RR 102 - ELEV SOUTH**  
 1/4" = 1'-0"



**9 ENLARGED ELEVATION - RR**  
 1/4" = 1'-0"







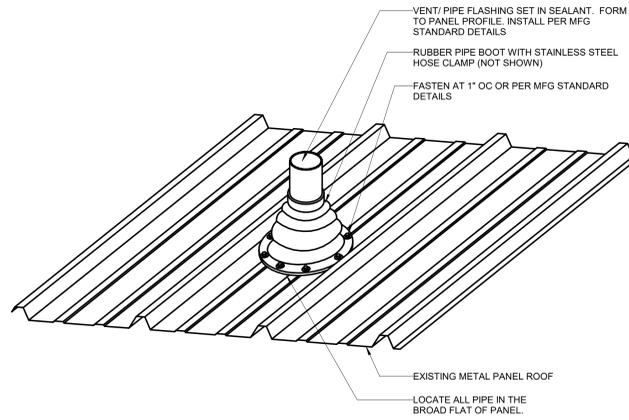
REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

**MOFFAT  
 ADMINISTRATION  
 BUILDING RENOVATION**

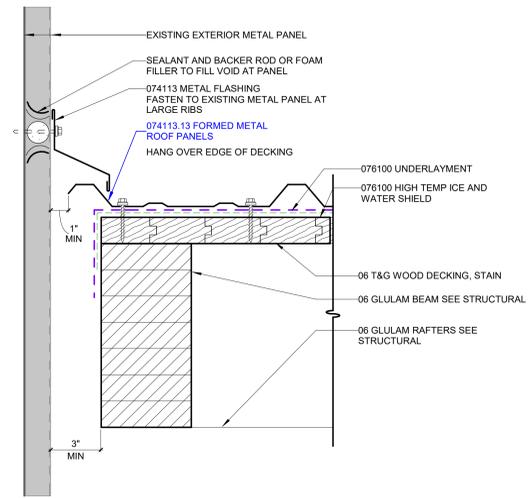
PROJECT: 24031 DATE: 8/5/2024  
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**DETAILS**

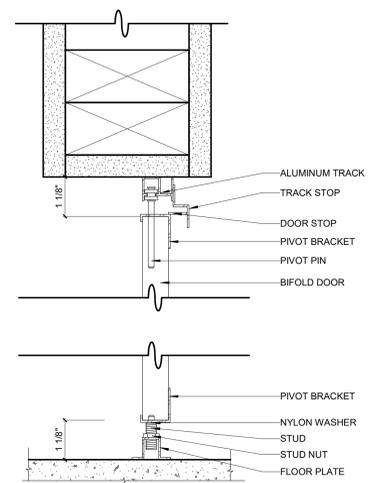


**7 DETAIL - ROOF - PIPE PENETRATION**  
 3" = 1'-0"

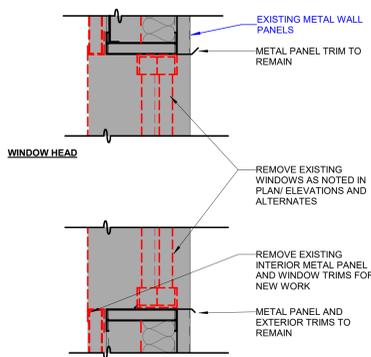


**8 DETAIL - MP WALL TO CANOPY**  
 3" = 1'-0"

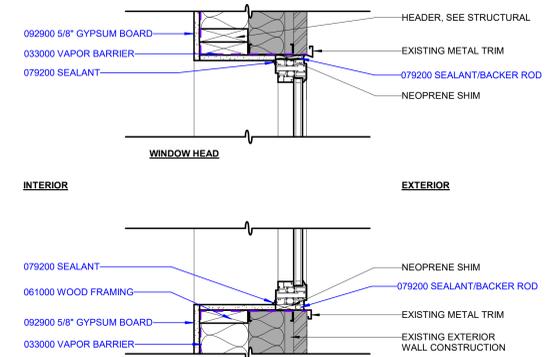
- 0 3 6 9 INCH SCALE 3" = 1'-0"
- 0 3 6 9 INCH SCALE 1-1/2" = 1'-0"
- 0 1 2 3 FEET SCALE 3/4" = 1'-0"
- 0 1 2 3 FEET SCALE 1/2" = 1'-0"
- 0 1 2 3 4 5 FEET SCALE 1/4" = 1'-0"
- 0 2 4 6 8 10 FEET SCALE 1/8" = 1'-0"
- 0 5 10 15 20 FEET SCALE 1/16" = 1'-0"
- 0 5 10 15 20 25 30 35 40 45 FEET SCALE 1/32" = 1'-0"
- 0 5 10 15 20 25 30 FEET SCALE 3/32" = 1'-0"



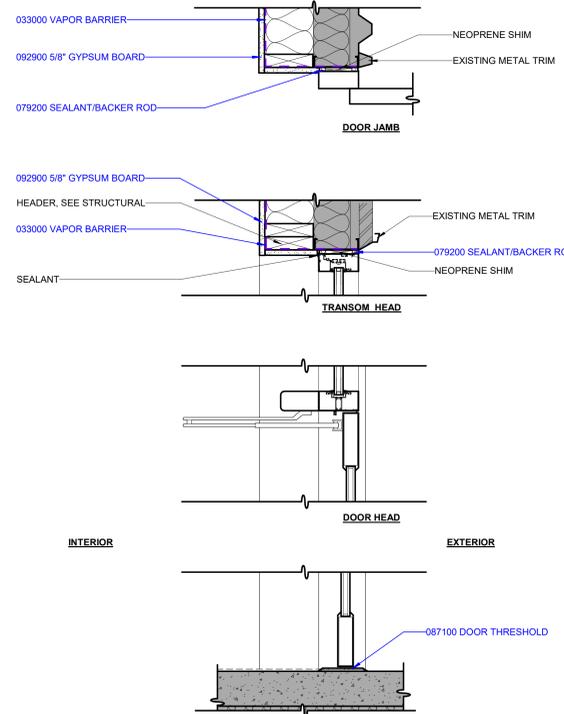
**5 DETAIL - BIFOLD DOOR SECTION**  
 6" = 1'-0"



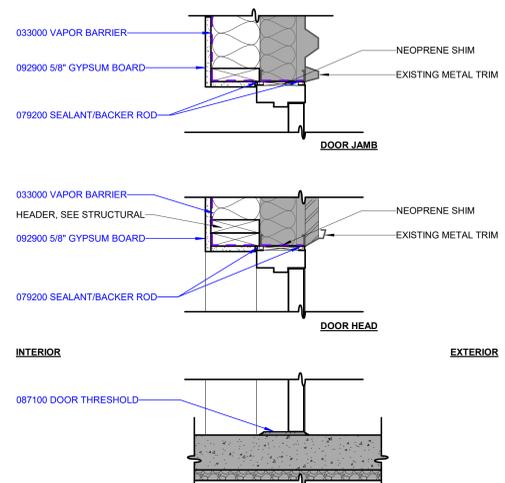
**4 DETAIL - DEMO WINDOW SECTION**  
 1 1/2" = 1'-0"



**3 DETAIL - ALUMINUM WINDOW SECTION**  
 1 1/2" = 1'-0"



**2 DETAIL - STOREFRONT IN EXTERIOR WALL**  
 1 1/2" = 1'-0"



**1 DETAIL - HM DOOR IN EXTERIOR WALL**  
 1 1/2" = 1'-0"

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

**MOFFAT  
 ADMINISTRATION  
 BUILDING RENOVATION**

PROJECT: 24031 DATE: 8/28/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS



**DOOR AND WINDOW  
 FRAME  
 TYPES/DETAILS**

NUMBER	ROOM NAME	ROOM #	DOOR				FRAME		HARDWARE			COMMENTS	REVISIONS
			LEAFS	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	FIRE RATING	CARD READER	SET		
E100	STORAGE	100	1	3'-0"	7'-0"	HG	HM	HM1			08	PAINT EXISTING DOOR. ADD CARD READER TO MATCH EXISTING CAMPUS STANDARD	
E100.1	STORAGE	100	1	3'-0"	7'-0"	F	HM	HM1			09	EXISTING OVERHEAD DOOR TO REMAIN	
E100.2	STORAGE	100	1	3'-0"	7'-0"	F	HM	HM1			09	EXISTING DOOR TO REMAIN	
E100.3	RECEPTION/ ENTRY	106	1	3'-0"	6'-8"	F	WD	HM1	45M		011	REMOVE EXISTING DOOR AND FRAME	
E101	SUPERINTENDENT	101	1	3'-0"	6'-8"	HG	WD	HM1	45M		05	EXISTING DOOR AND FRAME TO REMAIN. PAINT AND PROVIDE NEW HARDWARE	
E101.1	SUPERINTENDENT	101	1	3'-0"	6'-8"	HG	WD	HM1	45M		011	REMOVE EXISTING DOOR AND FRAME	
E102	RESTROOM	102	1	3'-0"	6'-8"	F	WD	HM1	45M		010	REMOVE EXISTING DOOR. HM FRAME TO REMAIN	
E103	MEP	103	1	3'-0"	6'-8"	F	WD	HM1	45M		06	EXISTING DOOR AND FRAME TO REMAIN. PROVIDE NEW HARDWARE SET	
E104	RECEPTION/ ENTRY	106	1	3'-0"	6'-8"	F	WD	HM1	45M		011	REMOVE EXISTING DOOR AND FRAME	
E105	RECEPTION/ ENTRY	106	1	3'-0"	6'-8"	F	WD	HM1	45M		010	REMOVE EXISTING DOOR. HM FRAME TO REMAIN	
E106.1	OFFICE	108	1	3'-0"	7'-0"	HG	HM	HM1			07	PAINT EXISTING DOOR AND PROVIDE NEW HARDWARE	
E106.2	RECEPTION/ ENTRY	106	1	3'-0"	7'-0"	F	HM	HM1			07	REMOVE EXISTING OVERHEAD DOOR. TRACK AND ALL ASSOCIATED COMPONENTS	
E106.3	MEETING ROOM	109	1	3'-0"	7'-0"	F	HM	HM1			011	REMOVE EXISTING DOOR AND FRAME	

NUMBER	ROOM NAME	ROOM #	DOOR				FRAME		HARDWARE			COMMENTS	REVISIONS
			LEAFS	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	FIRE RATING	CARD READER	SET		
100.4	STORAGE	100	1	3'-0"	6'-8"	F	HM	HM1	45M		04		
101	SUPERINTENDENT	101	1	3'-0"	6'-8"	F	HM	HM1			02		
102	RESTROOM	102	1	3'-0"	6'-8"	F	WD	HM1			01	NEW DOOR IN EXISTING FRAME	
104	STORAGE	104	1	3'-0"	6'-8"	F	WD	HM1			03		
105	RESTROOM	105	1	3'-0"	6'-8"	F	WD	HM1			01	NEW DOOR IN EXISTING FRAME	
106	RECEPTION/ ENTRY	106	1	3'-0"	7'-0"	A1	AL	A		Y	AL-02		
107	OFFICE	107	1	3'-0"	6'-8"	F	WD	HM1			02		
108	OFFICE	108	1	3'-0"	6'-8"	F	WD	HM1			02		
109	MEETING ROOM	109	1	3'-0"	7'-0"	A1	AL	A			AL-01		

\* VERIFY TYPICAL DOOR SIZES IN FIELD - EXTERIOR DOORS 3'-0" x 7'-0", AND INTERIOR DOORS ARE 3'-0" x 6'-8"

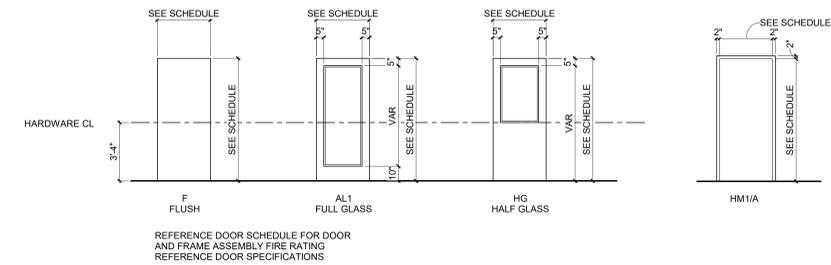
**DOOR AND FRAME NOTES**

**GENERAL NOTES:**  
 SEE SPECIFICATIONS FOR RATED, TEMPERED, AND/OR LAMINATED SAFETY GLAZING REQUIREMENTS.

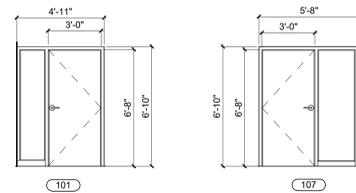
**GLAZING LEGEND**



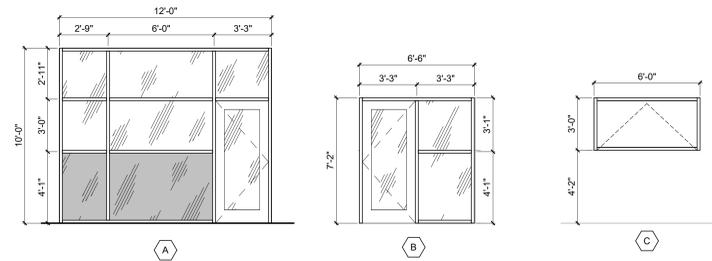
**DOOR AND FRAME ELEVATIONS**



**INTERIOR STOREFRONT ELEVATIONS**



**EXTERIOR STOREFRONT ELEVATIONS**



REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

**MOFFAT  
 ADMINISTRATION  
 BUILDING RENOVATION**

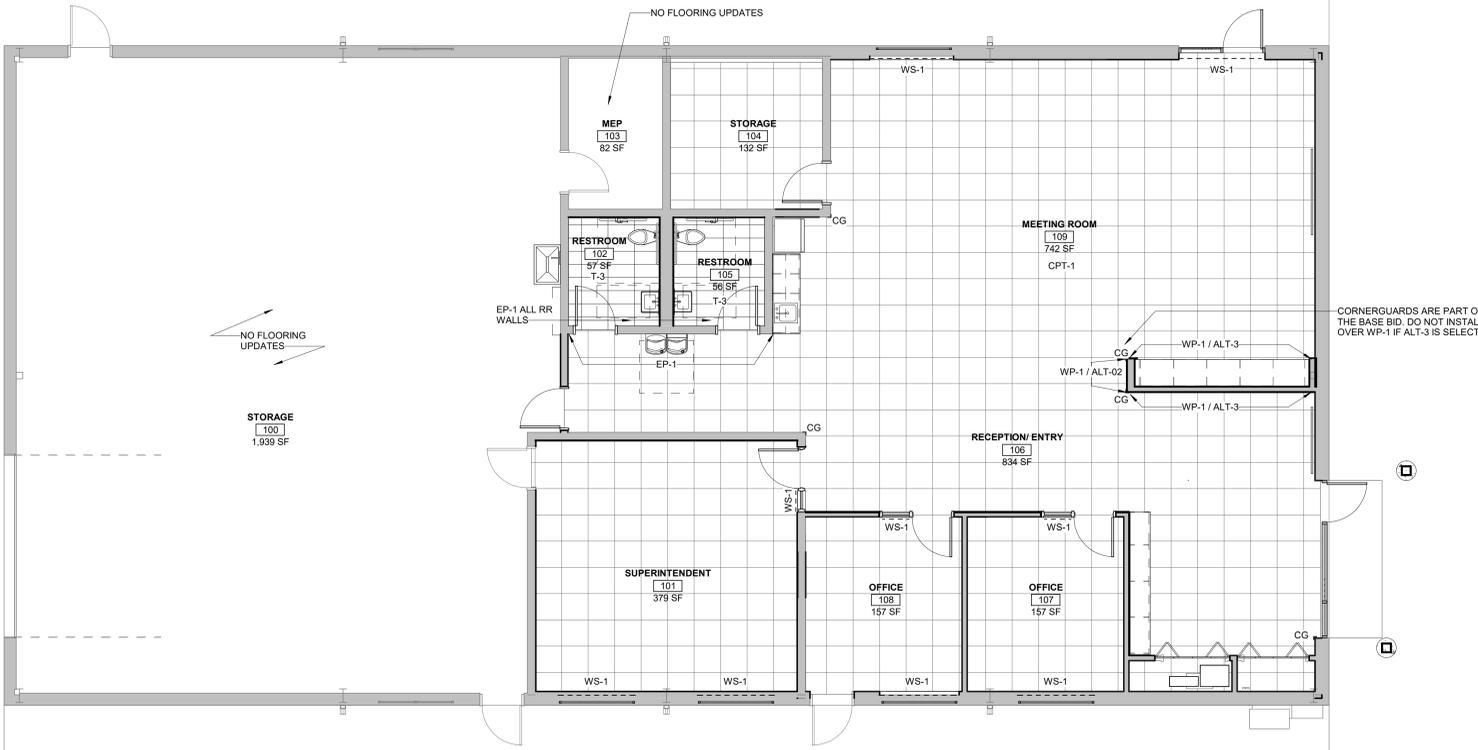
PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS  
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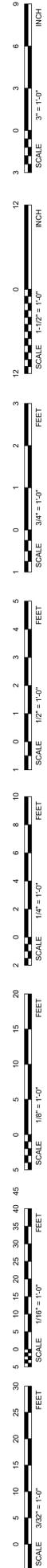
**FINISH PLAN AND  
 LEGENDS**

- GENERAL NOTES:**
- INTERIOR FINISH LEGEND IS FOR MATERIAL AND FINISH DESCRIPTION AND LOCATION ASSIGNMENT. SEE SPECIFICATIONS FOR ALL MATERIAL QUALITY AND PERFORMANCE REQUIREMENTS.
  - COORDINATE THE INSTALLATION OF ALL FINISH MATERIALS WITH OTHER CONSTRUCTION TRADES. ALIGN FINISH MATERIALS WITH BUILT-IN COMPONENTS' EQUIPMENT, CASEWORK, CORNERS, TRANSITIONS, ETC WHETHER NOTED OR NOT FOR A CLEAN AND ORDERED APPEARANCE. CONSULT WITH ARCHITECT WHERE REQUIRED.
  - SUBSTITUTION REQUESTS OF EQUAL OR BETTER PRODUCTS SHALL BE SUBMITTED PRIOR TO BIDDING IN ACCORDANCE WITH THE SPECIFICATIONS. PRODUCT SUBSTITUTION REQUESTS ARE NOT ALLOWED AFTER PROJECT AWARD.
  - ALL RESTROOM WALL TILE TO ALIGN WITH ADJACENT FLOOR TILE GROUT JOINTS.
  - CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ADDITIONAL CONTROL JOINTS IN TILE PER MFR WHERE NECESSARY.
  - SEE INTERIOR ELEVATIONS AND FINISH FLOOR PLANS FOR ADDITIONAL DETAIL.
  - PAINT ALL EXISTING AND NEW GYPSUM WALL BOARD IN AREAS OF WORK AND PROVIDE RUBBER BASE.
  - CLEAN/PREP EXISTING SURFACES TO REMAIN AS REQUIRED TO RECEIVE NEW FINISH.
  - PATCH/REPAIR MATERIALS AT EXISTING SURFACES TO REMAIN AND WHERE TO RECEIVE NEW FINISHES.
  - PROVIDE JOINT SEALANT AT EXISTING CRACKS IN CONCRETE SLAB.
  - CLEAN CONCRETE FLOORS PRIOR TO INSTALLING FINISHES.
  - PROVIDE TRANSITION ACCESSORIES AT ALL MATERIAL CHANGES.
- TYPICAL FINISHES:**
- BASE TO BE RB-1 UNLESS NOTED OTHERWISE.
  - TILE BASE T-2 FOR ALL RESTROOMS. UNLESS NOTED OTHERWISE.
  - GYPSUM WALL BOARD WALLS TO BE PAINTED P-1 UNLESS NOTED OTHERWISE.
  - INTERIOR HOLLOW METAL DOORS AND FRAMES TO BE PAINTED P-2 UNLESS NOTED OTHERWISE.
  - SUSPENDED GYPSUM BOARD CEILINGS TO BE PAINTED P-3 UNLESS NOTED OTHERWISE.
  - EXPOSED STEEL STRUCTURE (COLUMNS AND BEAMS) TO BE PAINTED P-1 UNLESS NOTED OTHERWISE.
  - GYPSUM WALL BOARD SOFFITS TO MATCH ADJACENT WALLS UNLESS NOTED OTHERWISE.
  - PLASTIC LAMINATE CASEWORK TO BE PL-1 UNLESS NOTED OTHERWISE.
  - ACOUSTICAL CEILING TILES TO BE REPLACED IN EXISTING CEILING GRIDS BY OWNER.
  - PROVIDE TILE TRANSITION STRIPS WTS-1, WTS-2 AND FTS-1 AT ALL TILE TRANSITIONS UNLESS NOTED OTHERWISE.
  - GRILLES, DIFFUSERS, ELECTRICAL PANELS, ACCESS PANELS, AND SIMILAR EXPOSED AT FINISHED SPACES SHALL BE PAINTED TO MATCH THE WALL.
  - CONSULT WITH ARCHITECT WHERE PREFINISHED METALS, OR FACTORY PAINTED EQUIPMENT IS SPECIFIED.

SECTION	CODE	DESCRIPTION	MANUFACTURER	SERIES	COLOR	SIZE	FINISH	CONTACT INFO	ALTERNATE #	COMMENTS
033511	SC-1	CONCRETE SEALANT	SEE SPEC				SEE SPEC			
062000	WP-1	WOOD BOARD PANELING	SEE SPEC		STAIN TO BE SELECTED BY THE ARCHITECT.	1 X 6 PLANKS	CLEAR, MATTE - SEE SPEC		ALT-02	LOCATION: FEATURE WALL AT ENTRY. SEE DETAIL FOR FINISHED ENDS.
064100	PL-1	PLASTIC LAMINATE	WILSONART		MISTLETOE Y0841-60		MATTE	Jennifer Linde-Wilson, lindej@wilsonart.com, 720-244-7079		BASE AND WALL CASEWORK
093000	FTS-1	FLOOR TRANSITION STRIP	SCHLUTER	RENO-U		VERIFY TILE HEIGHT	SATIN ANODIZED ALUMINUM (AE)	John Coats, jcoats@schluter.com, 720-940-0516		TILE TO CARPET TRANSITIONS. PROVIDE LONGEST LENGTHS POSSIBLE W/O SPLICES.
093000	FTS-2	FLOOR TRANSITION STRIP	SCHLUTER	VINPRO-U		VERIFY CPT HEIGHT	SATIN ANODIZED ALUMINUM (AE)	John Coats, jcoats@schluter.com, 720-940-0516		CARPET TO CONCRETE TRANSITIONS. PROVIDE LONGEST LENGTHS POSSIBLE W/O SPLICES.
093000	T-1	TILE	DALTILE	VOLUME 1.0	TBD	12 X 24 X 5/16"	MATTE	Darren Pecharich, darren.pecharich@daltile.com, 303.502.7392		3/16" GROUT JOINT. ARCHITECT TO SELECT GROUT COLOR FROM ENTIRE LINE.
093000	T-2	TILE	DALTILE	VOLUME 1.0	TBD	6 X 24 X 5/16"	MATTE	Darren Pecharich, darren.pecharich@daltile.com, 303.502.7392		RESTROOM TILE, TYP. SEE ELEV FOR LOCATIONS.
093000	WTS-1	WALL TRANSITION STRIP	SCHLUTER	JOLLY		VERIFY TILE HEIGHT	SATIN ANODIZED ALUMINUM (AE)	John Coats, jcoats@schluter.com, 720-940-0516		LOCATION: EXPOSED TILE EDGES. PROVIDE LONGEST LENGTHS POSSIBLE W/O SPLICES.
093000	WTS-2	WALL TRANSITION STRIP	SCHLUTER	DILEX-AHK		VERIFY TILE HEIGHT	SATIN ANODIZED ALUMINUM (AE)	John Coats, jcoats@schluter.com, 720-940-0516		LOCATION: FLOOR TO WALL TRANSITIONS. PROVIDE LONGEST LENGTHS POSSIBLE W/O SPLICES.
095100	ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	CALLA SQUARE TEGULAR	WHITE	24 x 48		Joe Moser, jpmoser@armstrongceilings.com		15/16" GRID. NRC .80; CAC 40.
096500	RB-1	RUBBER BASE	JOHNSONITE TARKETT	1/8" COVED	GREY WG 48	4"		Larry Sage, 720-318-6602		
096813	CPT-1	CARPET TILE	J & J FLOORING	CARBON COPY 1854	3407 GENERATION	24 X 24		becky.kauvar@jflooring.com		INSTALLATION: ASHLAR
097200	VG-1	VINYL GRAPHIC	SEE SPEC	SEE SPEC	CUSTOM	SEE ELEVATION 13A1.3	CUSTOM			DESIGN TO BE COORDINATED WITH OWNER AND ARCHITECT.
099113	P-4	EXTERIOR PAINT	SHERWIN WILLIAMS		GRECIAN IVORY SW 7541		VARIABLES BY MATERIAL. SEE SPEC.	Peter Kremm, peter.kremm@sherwin.com, 303-902-7239		
099113	P-5	EXTERIOR PAINT	SHERWIN WILLIAMS		JOGGING PATH SW 7638		VARIABLES BY MATERIAL. SEE SPEC.	Peter Kremm, peter.kremm@sherwin.com, 303-902-7239		
099113	P-6	EXTERIOR PAINT	SHERWIN WILLIAMS		EVERGREEN SW 6447		VARIABLES BY MATERIAL. SEE SPEC.	Peter Kremm, peter.kremm@sherwin.com, 303-902-7239		
099123	EP-1	EPOXY PAINT	SHERWIN WILLIAMS		GOSSAMER VEIL SW 9165		VARIABLES BY MATERIAL. SEE SPEC.	Peter Kremm, peter.kremm@sherwin.com, 303-902-7239		LOCATION: RR AND WATER FOUNTAIN ALCOVE WALLS. SEE ELEV.
099123	P-1	INTERIOR PAINT	SHERWIN WILLIAMS		GOSSAMER VEIL SW 9165		VARIABLES BY MATERIAL. SEE SPEC.	Peter Kremm, peter.kremm@sherwin.com, 303-902-7239		TYPICAL WALL PAINT
099123	P-2	INTERIOR PAINT	SHERWIN WILLIAMS		DOVETAIL SW 7018		VARIABLES BY MATERIAL. SEE SPEC.	Peter Kremm, peter.kremm@sherwin.com, 303-902-7239		TYPICAL HM DOORS AND FRAMES PAINT
099123	P-3	INTERIOR PAINT	SHERWIN WILLIAMS		PURE WHITE SW 7005		SEE SPEC	Peter Kremm, peter.kremm@sherwin.com, 303-902-7239		TYPICAL CEILING PAINT
102600	CG-1	WALL PROTECTION	CS ACROVYN	CO-8 SERIES	ST/STL		BRUSHED SATIN	Lauren Stevens, lauren@bowmanconstructionssupply.com		SEE FINISH PLAN FOR LOCATIONS
122400	WS-1	WINDOW SHADE	LUTEK SHADING SYSTEMS	ML-30	DARK BRONZE ACCESSORIES	CUSTOM. FIELD VERIFY WINDOW SIZE.	1 % OPENNESS. FABRIC TO BE SELECTED FROM FULL RANGE.	Tim@lu-tek.com, LUTEK.COM		PROVIDE FASCIA AND END CAPS. 6C HEMBAR.
123800	SS-1	SOLID SURFACE POLYMER	LX HAUSYS	CLASSIC COLLECTION	KAMET L017	1/2" THICK	MATTE	Lisa DeCaire, ldecaire@lxhausys.com		TYPICAL COUNTER



**1 FIRST FLOOR FINISH PLAN**  
 3/16" = 1'-0"



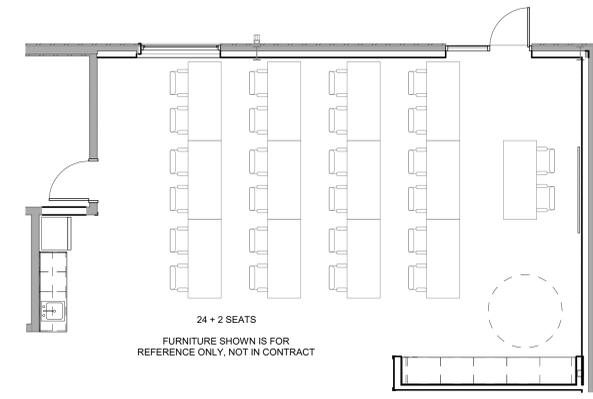
**ARCHITECT**  
**BVH ARCHITECTURE**  
 PROJECT MANAGER: BROOKE SCHUBERT  
 PROJECT ARCHITECT: JENNIFER DAVIS  
 1415 PARK AVE W  
 DENVER CO 80205  
 V 303 495 6998  
 bvh.com

**CIVIL ENGINEER + LANDSCAPE ARCHITECT**  
**SMH CONSULTANTS**  
 PROJECT ENGINEER: BRETT LOUK  
 411 S TELON STREET  
 COLORADO SPRINGS, CO 80903  
 V 719 465 2145  
 SMHCONSULTANTS.COM

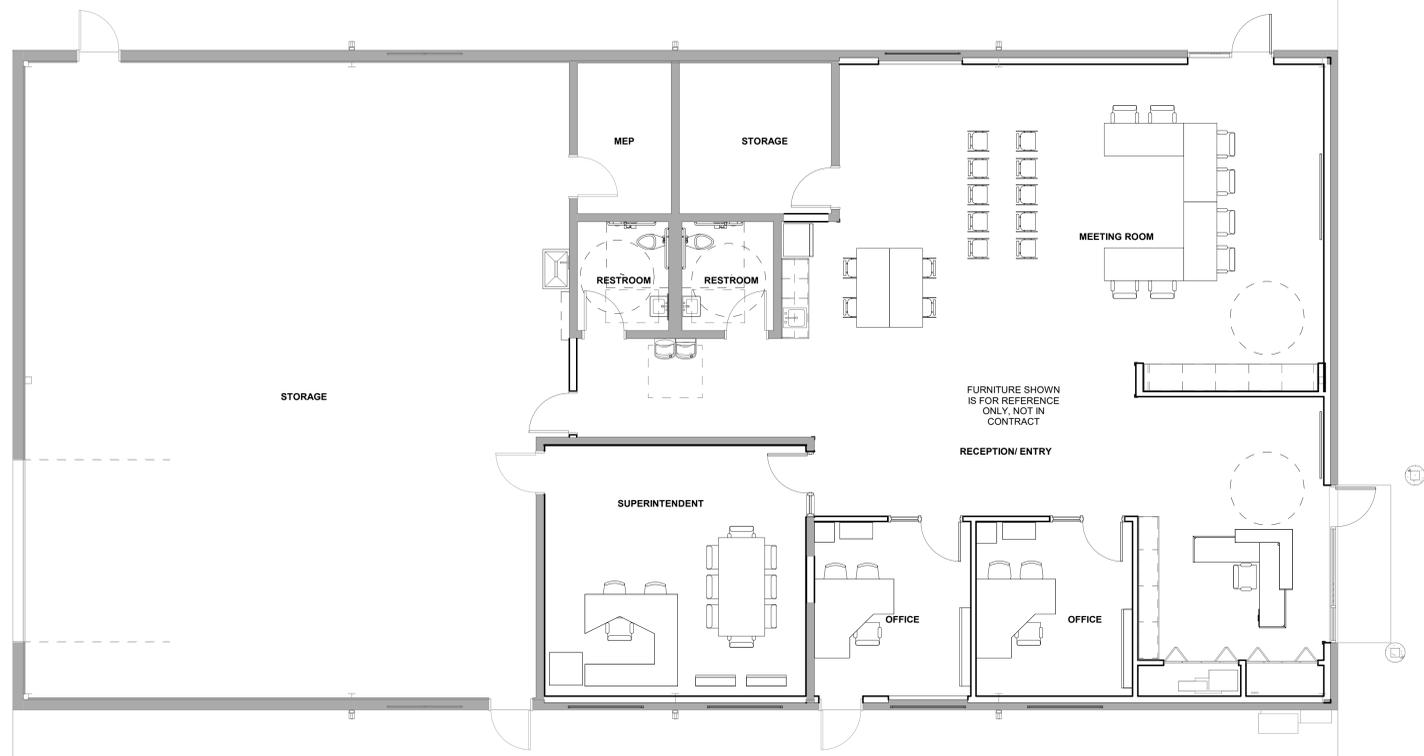
**STRUCTURAL**  
**HODA CONSULTANTS**  
 ENGINEERS: JEFF KOBRINGER AND  
 CHRIS ALUNAN  
 9 S WEBER STREET  
 COLORADO SPRINGS, CO 80903  
 V 719 633 7784  
 HODAENGINEERING.COM

**MECHANICAL, ELECTRICAL + PLUMBING**  
**RAMIREZ, JOHNSON AND ASSOCIATES**  
 ENGINEERS: DARIN RAMIREZ AND JUDAH  
 KATZ  
 3301 LAWRENCE STREET, SUITE 2  
 DENVER, CO 80205  
 V 720 588 0774  
 RJA-ENG.COM

9 INCH SCALE 3" = 1'-0"  
 12 INCH SCALE 1'-1/2" = 1'-0"  
 3 FEET SCALE 3/4" = 1'-0"  
 1 FEET SCALE 1/2" = 1'-0"  
 5 FEET SCALE 1" = 1'-0"  
 10 FEET SCALE 1/4" = 1'-0"  
 20 FEET SCALE 1/8" = 1'-0"  
 5 FEET SCALE 1/16" = 1'-0"  
 30 FEET SCALE 1/32" = 1'-0"  
 5 FEET SCALE 1/16" = 1'-0"



**2 STAFF MEETING FURNITURE LAYOUT**  
 3/16" = 1'-0" FOR REFERENCE ONLY



**1 FIRST FLOOR FURNITURE PLAN**  
 3/16" = 1'-0" FOR REFERENCE ONLY

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

**MOFFAT ADMINISTRATION BUILDING RENOVATION**

PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS



**FURNITURE PLAN**

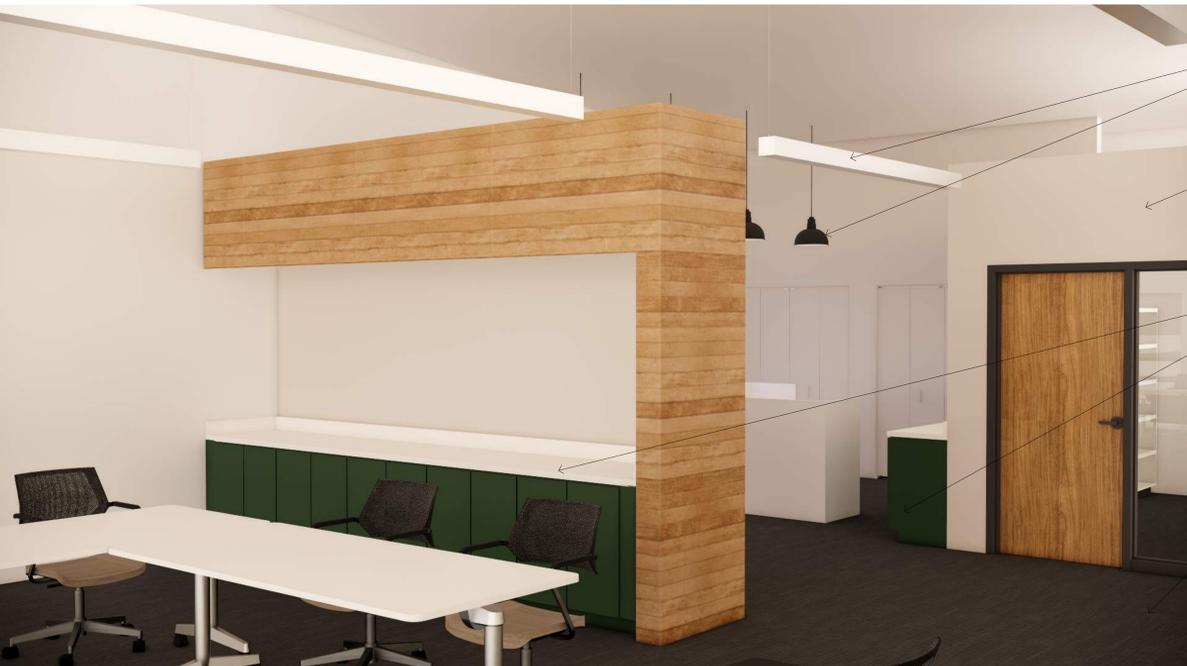
REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

**MOFFAT  
 ADMINISTRATION  
 BUILDING RENOVATION**

PROJECT: 24031 DATE: 8/5/2024  
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RENDERINGS



9 INCH SCALE 3" = 1'-0"  
 12 INCH SCALE 1'-1/2" = 1'-0"  
 3 FEET SCALE 3/4" = 1'-0"  
 1 FEET SCALE 1/2" = 1'-0"  
 1 FEET SCALE 1/4" = 1'-0"  
 2 FEET SCALE 1/8" = 1'-0"  
 5 FEET SCALE 1/16" = 1'-0"  
 5 FEET SCALE 1/16" = 1'-0"  
 30 FEET SCALE 3/32" = 1'-0"  
 5 FEET SCALE 1/16" = 1'-0"

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

## MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 8/5/2024  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

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## GENERAL NOTES AND DETAILS

### GENERAL NOTES

- Materials and workmanship shall be in accordance with the requirements of "The International Building Code", 2021 Edition.
- Contractor shall check and verify all dimensions shown on structural drawings with those shown on architectural.
- Contractor shall notify Architect of any discrepancies between architectural and structural drawings and receive written clarification of discrepancies before proceeding with construction.
- Contractor shall field measure and verify all existing conditions and dimensions at job site.
- In case existing conditions or dimensions vary from those shown on drawing, Contractor shall notify Architect so proper adjustments can be made.
- Special inspections shall be performed in accordance with I.B.C. Section 1704 when such inspections are required by the Building Official. Contractor shall coordinate the work schedule with the special inspectors who are selected and paid by the Owner.
- During construction, the contractor shall be responsible for temporary bracing and shoring to withstand all loads to which the structure may be subjected, including lateral loads, stockpiles of materials and equipment. Temporary bracing shall remain in place until all structural framing and diaphragms are in place with connections completed.
- Where the Structural Drawings appear to conflict with OSHA requirements, the Structural Drawings represent final conditions only; the contractor shall add all erection framing, bolts, stabilizer plates, etc. as may be necessary to comply with OSHA.
- If discrepancy discovered in documents, more stringent criteria governs. Notify Engineer prior to installation.

### FOUNDATION GENERAL NOTES

- Foundation type and design criteria, including bearing pressure, is based on IBC Table 1805.2. Additional geotechnical investigation is not planned unless deemed necessary by the building official.
- Maximum bearing pressure used in footing design: 1,500 psf.
- A professional geotechnical engineer registered in the state of Colorado shall perform open excavation inspection prior to placing foundations to ensure bearing capacity is satisfactory.
- In case conditions found at the site vary from those indicated on the drawings, the Architect is to be notified so that adjustments to the foundation can be made to meet actual field conditions.
- No footings or foundation walls shall be placed without adequate notification to allow Engineer to observe reinforcing if they deem necessary.
- No concrete shall be placed in excavation containing water or on frozen ground.

### CONCRETE GENERAL NOTES

- Material and workmanship shall be in accordance with the requirements of "Building Code Requirements for Structural Concrete" (ACI 318-19).
- See specification for minimum compressive strength required at age of 28 days.
- All cement used in concrete shall be Type I.
- All concrete shall have a minimum cementitious materials content of 470 lbs. per cubic yard unless otherwise specified.
- Calcium Chloride shall not be added to concrete.
- Reinforcing bars shall conform to ASTM A-615, Grade 60 or ASTM A-706.
- Bar bending details and placing drawings shall be in accordance with the "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315, latest edition).
- Fly ash may be added for up to 20% of cementitious materials by weight where indicated in the mix design.
- Provide bar supports and spacers to place all bars in proper location, and wire adequately at intersections to hold bars firmly in position while concrete is placed. Vertical dowels shall be supported in place prior to placing concrete.
- Bar supports and spacers which rest on or against exposed surface shall be hot dipped galvanized or plastic coated.
- Reinforcing bar sizes shown are English designation. The bars may be furnished with the equivalent metric markings:

English	#3	#4	#5	#6	#7	#8	#9	#10	#11
Metric	#10	#13	#16	#19	#22	#25	#29	#32	#36

### STRUCTURAL STEEL GENERAL NOTES

- All steel shall conform to the "Standard Specification for Structural Steel" ASTM Designation A572, Grade 50, or ASTM A992, latest edition, except where noted otherwise. Angles, channels, and plates shall conform to ASTM A36. Round hollow structural steel sections shall conform to ASTM A500, Fy = 42 ksi. Square or rectangular hollow structural sections shall conform to ASTM A500, Grade B, Fy = 46 ksi. Pipe shall conform to ASTM A53, Grade B, Fy = 35 ksi. Threaded rod and anchor rods shall conform to ASTM F1554 Gr. 36.
- All detailing, fabrication and erection shall conform to AISC "Specification for Structural Steel Buildings" and the AISC "Code of Standard Practice for Steel Buildings and Bridges", latest edition, and "Load and Resistance Factor Design Specification for Structural Steel Buildings" when applicable.
- This structure contains "non-self-supporting steel frames" per AISC definition. The contractor shall coordinate the installation of all necessary temporary bracing which shall remain in place until the lateral support system is constructed and connected to the framing.
- Beam connections not shown on the details shall be designed by the steel fabricator in accordance with Tables 10-1, 10-2, 10-3, and 10-4 of the AISC "Manual of Steel Construction", Fourteenth Edition. Beam reactions not shown on plans or details shall be computed from the design loads shown on the drawings.
- Shop connections shall be welded unless noted otherwise.
- Field connections shall be made with 3/4" diameter ASTM A325 High Strength Bolts. Connections shall be bearing-type tightened to a "snug-tight" condition unless noted as "Tension Controlled". Connections utilizing "Tension Controlled" bolts shall be pretensioned but do not require faying surface preparation unless noted otherwise.
- High strength bolted connections shall conform to the "Specification for Structural Joints Using ASTM A325 or A490 Bolts", approved by Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation, latest edition, endorsed by AISC. Fasteners, noted as "Tension Controlled", shall be "Load Indicator Bolts" as manufactured by Lohr, Le Jeune, or approved equal and lightened per manufacturer's specification.
- All welding shall be done by certified welding operators and shall conform to "AWS Structural Welding Code" (AWS D1.1), latest edition.
- Welding sizes not otherwise shown shall be minimum continuous 1/4 inch fillet welds, or equal to the thickness of the thinner material minimum 1/16th inch, whichever is less.
- All welding shall be done with AWS A5.1 or A5.5 E70 X8 electrodes except for welding of ASTM A706 rebar, which shall be welded using E80 electrodes.
- Areas within 2 inches of field welds shall not be painted until after welding. Field welds, bolt heads, nuts and other surfaces not shop painted and surfaces abraded during shipping and erection shall be field painted after erection.
- All structural steel exposed to view shall conform to the provisions for "Architecturally Exposed Structural Steel" in the AISC Code of Standard Practice.
- All steel (except that to receive spray-on fireproofing) shall receive one shop coat of metal primer or equal conforming to Steel Structures Painting Council Specification (SSPC No. 15).

### TIMBER GENERAL NOTES

- All wood framing shall conform to the "National Design Specification for Wood Construction", latest edition, recommended by the "National Forest Products Association".
- Sawn lumber framing members shall conform to the following species and grades: Hem-Fir #2 or better.
- Lumber for all glue laminated bending members ("Glu-Lam Beams") shall be combination 24F-V8 or better, and for all glue laminations compression members ("Glu-Lam Columns") shall be combination A- or better, meeting the allowable stress values given in "Design Values for Wood Construction" published by the American Forest and Paper Association. Glu-lam members are to be free of wane.
- "Glu-Lam" members shall be identified with the appropriate trademark of the American Plywood Association, and shall meet the requirements of U.S. Product Standard PS1 or PS2, Performance Standards, latest edition.
- All roof sheathing shall be 1932" APA rated sheathing (Exposure 1). Minimum panel identification shall be 40/20. Roof sheathing nailing shall be 10d common nails at 6" on center maximum at all edges and boundaries, unless noted otherwise. Nailing along intermediate members shall be 12" on center maximum. Confirm sheathing material is compatible with roofing material requirements.
- Roof sheathing shall be placed with 8"-0" dimension perpendicular to joist framing, stagger joints. Panels to be continuous over two or more spans. Panel end joints shall occur over framing. Allow 1/8 inch spacing at panel ends and 1/8 inch at panel edges unless otherwise recommended by the panel manufacturer.
- Sheathing panels shall be identified with the appropriate trademark of the manufacturer. All bolts shall be ASTM A-307.
- Ends of glu-lam members shall be accurately cut to provide uniform bearing. Nails for wood sheathing shall be common nails.
- Hot bolts in glu-lam members shall be field drilled after members are in place to ensure positive uniform bearing.
- Minimum nailing for all wood framing shall conform to Table No. 2304.10.2, International Building Code, 2021 Edition, unless noted otherwise.
- 16d nails shall be common or sinker (0.148" minimum diameter).

### LIGHTGAGE STRUCTURAL FRAMING GENERAL NOTES

- All lightgauge structural framing shall conform to the AISI Specification, "Lightgauge Cold-Formed Steel Design Manual", latest edition.
- All welding shall conform to the "AWS Structural Welding Code", latest edition.
- All separate wall elements shall be field welded together at all joints with fillet, butt, or seam welds.
- All field welds and surfaces abraded during shipping or erection shall be painted immediately after erection.
- All joints at framing members shall be welded.
- All welding shall be done with AWS A5.1 or A5.5 E80 XX electrodes.
- Stud track shall be fastened to concrete with powder driven fasteners. Fasteners shall be HILTI X-U 32 (1 1/4" embed) or equal at 16" on center unless noted otherwise. At cantilevered parapets, plug weld or fillet weld to steel beam.
- Studs, joints, and track studs and joists widths as called for on drawings. Head and sill track and header members to be unpunCHED track, same gauge as studs or one gauge heavier.
- Multiple Studs: provide multiple studs full-height from floor to roof structure at all door and window jambs in framed walls as follows:
  - Double studs at walls where roof structure is 14'-0" or less above finish floor.
  - Triple studs at walls where roof structure is between 14'-0" to 17'-0" above finish floor.
  - Quadruple studs at walls where roof structure is 17'-0" or higher above finish floor.
- Typical stud to track connection shall be a minimum (1) No. 10 screw each side of track to stud flange.
- Welded stud to track connections (1/8" fillet weld, 1" long, each flange are required at the following locations:
  - Base of cantilevered parapets.
  - Studs suspended by their top track above window / door openings.
  - Other locations as shown on plan.
- Members 16 gauge or thicker are to be 50ksi steel.

### DESIGN LOADS:

Building Risk Category III  
Site Elevation ±7,800 ft

Roof Loads  
Dead Load (Existing) 10 psf (Assumed)  
(Canopy) 10 psf

Snow Loads  
Flat Roof P<sub>s</sub> = 30 psf  
Ground P<sub>g</sub> = 43 psf  
Importance Factor I<sub>s</sub> = 1.1  
Exposure Factor C<sub>e</sub> = 1.0  
Thermal Factor C<sub>t</sub> = 1.0  
Slope Factor S<sub>c</sub> = 1.0  
Rain Intensity I<sub>r</sub> = 3 in/hr

Wind Loads  
Basic Design Wind Speed V = 120 mph  
Allowable Stress Design Wind Speed V<sub>ad</sub> = 93 mph  
Exposure Category C  
Internal Pressure Coefficient G<sub>Ci</sub> = ±0.18

Seismic Information  
Importance Factor I<sub>s</sub> = 1.25  
Mapped Spectral Response Acceleration Parameters S<sub>a</sub> = 0.389g  
S<sub>1</sub> = 0.122g  
Site Class D  
Design Spectral Response Acceleration Parameters S<sub>DS</sub> = 0.386g  
S<sub>1S</sub> = 0.192g  
C

Seismic Design Category Basic Seismic-Force-Resisting System consists of:  
Steel systems not specifically detailed for seismic resistance.  
Seismic Response Coefficients R<sub>s</sub> C<sub>s</sub> = 0.161  
Response Modification Coefficients: R = 3.0

WALL COMPONENTS AND CLADDING WIND PRESSURES (LRFD - 1.0WL)		
EFFECTIVE AREA	ZONES	
	4	5
sf	psf	psf
10 OR LESS	34.1	42.1
20	32.8	39.4
50	30.9	35.4
100	29.3	33.3
200	28.2	30.1
500 OR ABOVE	26.1	26.1

- ZONES PER ASCE 7-16 FIGURE 30.3-1
- VALUES ABOVE INDICATE MINIMUM DESIGN WIND PRESSURES ONLY. COMPONENTS AND CLADDING DESIGN SHALL BE BASED ON MINIMUM DESIGN PRESSURES FROM ALL APPLICABLE CODE SECTIONS.

### Cold-Formed Steel Framing

Item	Scope	C = Continuous P = Periodic		Frequency
		C	P	
1. Member Sizes	Verify compliance with construction documents and specifications.		X	
2. Material Thickness	Verify compliance with construction documents and specifications.		X	
3. Material Properties	Verify compliance with construction documents and specifications.		X	
4. Mechanical Connections	Verify compliance with construction documents and specifications.		X	
5. Welding	Verify compliance with construction documents and specifications.		X	
6. Framing Details	Verify compliance with construction documents and specifications.		X	

### Wood Construction

Item	Scope	C = Continuous P = Periodic		Frequency
		C	P	
1. Fabricator Certification / Quality Control Procedures <input type="checkbox"/> Fabricator Exempt	Inspect shop fabrication and quality control procedures for wood truss plant.		X	
2. Material Grading	Verify compliance with construction documents and specifications.		X	
3. Connections	Verify compliance with construction documents and specifications.		X	
4. Framing and Details	Verify compliance with construction documents and specifications.		X	

### SPECIAL INSPECTION GENERAL NOTES

- A statement of special inspections for structural items has been prepared by HCDA Engineering, Inc. for submission to the Building Official. This is submitted as a condition for permit issuance in accordance with the Structural Testing and Special Inspection requirements of the International Building Code, 2021 edition.
- The Structural Engineer will perform periodic observations of construction. These observations shall not replace required inspections by the Building Official. These observations also do not serve as "Special Inspections" as required by 1704 of the International Building Code.
- Steel Fabricators shall be approved in accordance with IBC section 1704.2.5.1 of the International Building Code, 2021 Edition, or are required to have shop inspections of the fabricated items for the project by the special inspector hired by the Owner as required by section 1704.2.5.3.
- Special Inspectors (not third party inspectors) shall be approved individually by the Building Official prior to the issuance of a permit. Please provide the list of specific special inspectors to determine if they have already been approved. Each Special Inspector not already approved by the Building Official must provide a resume and all supporting information related to their qualifications for the specific type of special inspections in accordance with IBC 1704.2.1.

### Statement of Special Inspections

Project: Moffat Senior High School  
Location: 501 Garfield Ave, Moffat, CO 81143  
Owner: Moffat School District

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Structural Testing and Special Inspection requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project. This Statement of Special Inspections encompasses the Structural components of the building.

The Special Inspection Coordinator, Special Inspector and Testing Agency shall be approved by the owner and qualified to perform the services indicated. The Special Inspection Coordinator shall keep records of all inspections and shall furnish interim inspection reports to the Building Official (if requested) and the Project Structural Engineer. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Project Structural Engineer. The Special Inspection program does not relieve the Contractor of their responsibilities.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the contractor. Interim Report Frequency: Weekly or as warranted based on construction performed.

### Soils

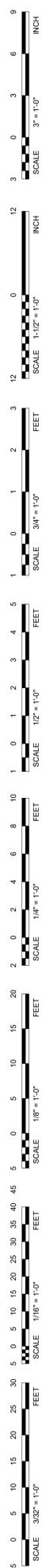
Item	Scope	C = Continuous P = Periodic		Frequency
		C	P	
1. Shallow Foundations	Inspect materials below shallow foundations to verify they are adequate to achieve the design bearing capacity.		X	
2. Controlled Structural Fill	Perform classification and testing of compacted fill material.  Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.  Prior to placement of compacted fill, inspect subsurface and verify that site has been prepared properly.		X	
3. Excavations	Verify excavations are extended to proper depth and have reached proper material.		X	

### Cast-in-Place Concrete

Item	Scope	C = Continuous P = Periodic		Frequency
		C	P	
1. Mix Design	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.		X	
2. Reinforcement Installation	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters.		X	
3. Cast in Anchors	Inspect size, positioning and embedment of anchor rods and embedded plates. Inspect concrete placement and consolidation around anchors.		X	
4. Concrete Placement	Inspect placement of concrete. Verify proper application techniques, concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.		X	
5. Sampling and Testing	Test concrete compressive strength (ASTM C13 & C39), slump (ASTM C143), air content (ASTM C231 or C173) and temperature (ASTM C1064). Fabricate specimens for strength tests.		X	
6. Curing and Protection	Inspect curing, cold weather protection and hot weather protection procedures. Verify maintenance of specified curing temperature and techniques.		X	
7. Formwork	Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	

### Structural Steel

Item	Scope	C = Continuous P = Periodic		Frequency
		C	P	
1. Fabricator Certification / Quality Control Procedures <input type="checkbox"/> Fabricator Exempt	Review shop fabrication and quality control procedures.  To be paid by Fabricator if plant not certified.		X	
2. Material Certification	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes.		X	
3. Bolting	Inspect installation and tightening of high-strength bolts. Verify that splices have separated from tension control bolts.		X	
4. Welding - Single pass fillet welds ± 5/16"	Visually inspect welds. Verify size and length of fillet welds.		X	
5. Structural Details	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.		X	
6. Quality Assurance	In addition to items listed above, inspection of structural steel shall be in accordance with requirements indicated in Chapter N of the AISC 360.		X	



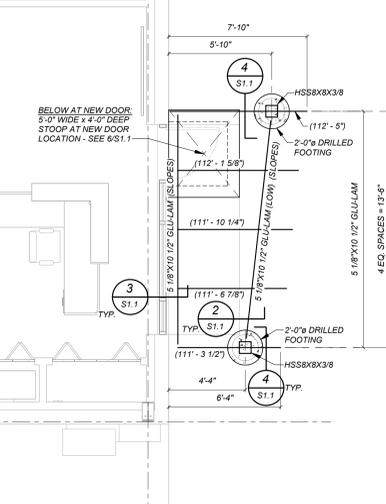
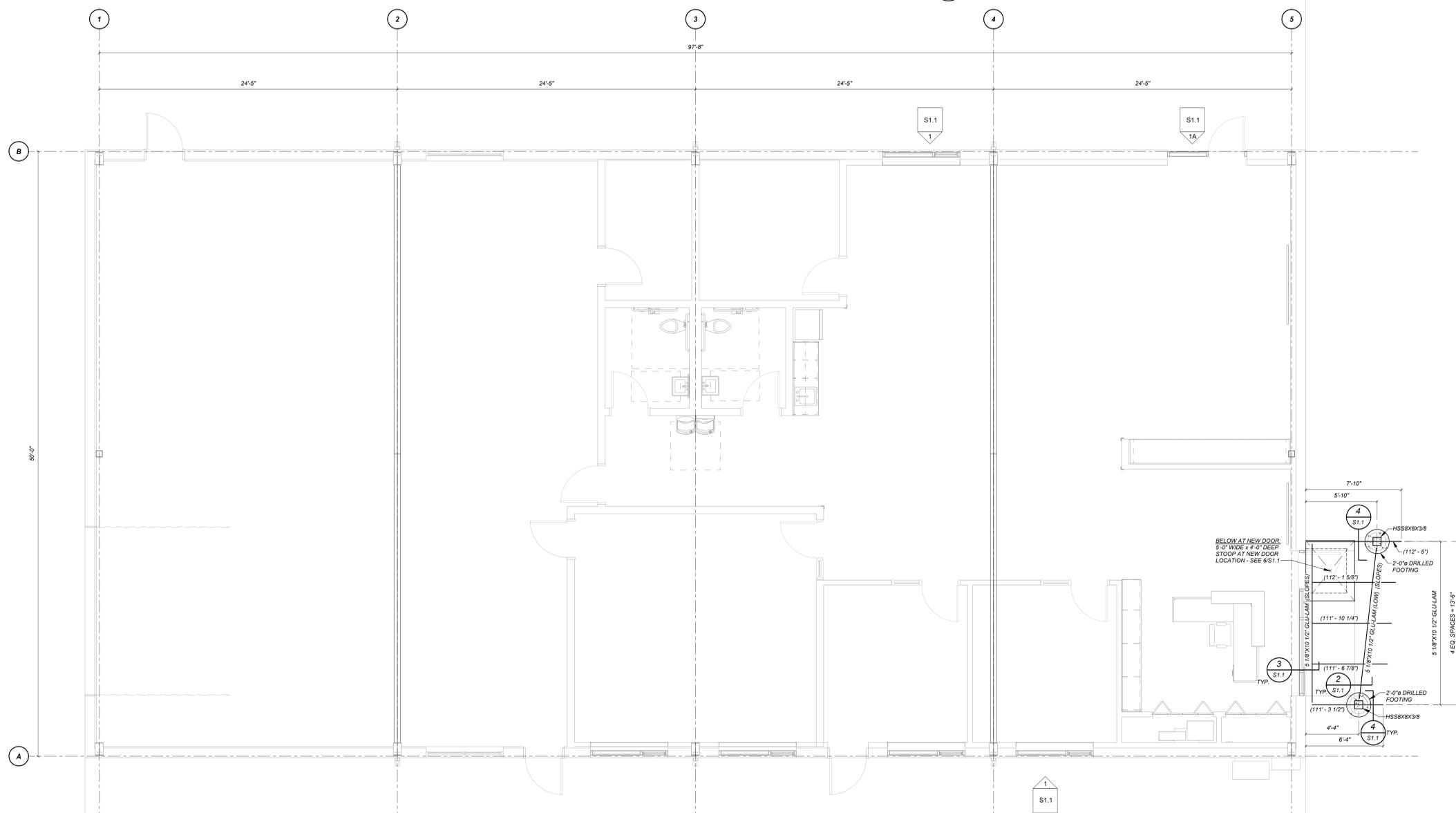
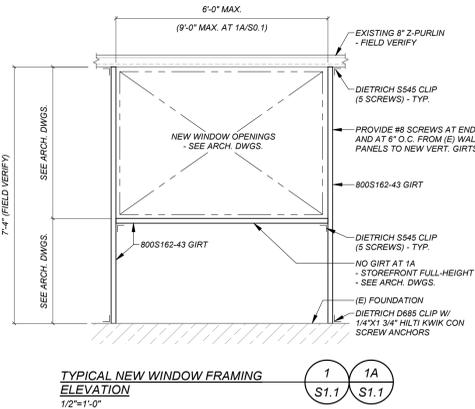
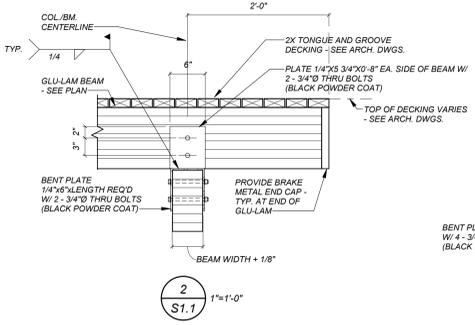
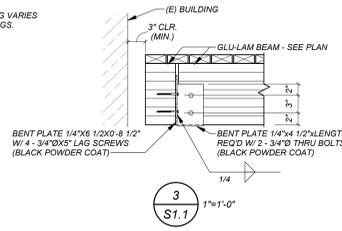
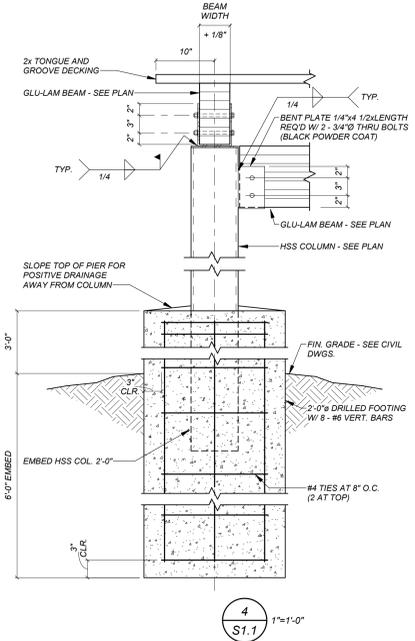
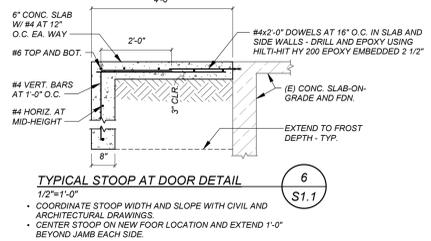
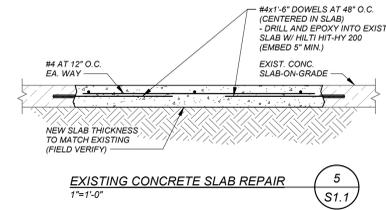
REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

**MOFFAT  
 ADMINISTRATION  
 BUILDING RENOVATION**

PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS



**FLOOR PLAN AND  
 CANOPY FRAMING**



**CANOPY FRAMING PLAN**  
 1/4"=1'-0"

9 INCH  
 6 INCH  
 3 INCH  
 3" = 1'-0"  
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REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION



**MOFFAT ADMINISTRATION BUILDING RENOVATION**

PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS

**MECHANICAL AND PLUMBING LEGEND**

NORTH



**MP0.0**

MECHANICAL SYMBOLS		ABBREVIATIONS		MECHANICAL/PLUMBING GENERAL NOTES																																																																																																																																																																																																																																																			
<b>PIPING / PLUMBING</b>		<b>HVAC EQUIP. AND DUCTWORK</b>		<ol style="list-style-type: none"> <li>REFER TO PLANS FOR ADDITIONAL NOTES.</li> <li>THE PLANS ARE, TO A GREAT EXTENT, DIAGRAMMATIC IN NATURE. DRAWING SCALES SHOULD BE VERIFIED FROM DIMENSIONS ON ARCH PLANS. THE INFORMATION PRESENTED IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL OBTAIN EXACT LOCATION, MEASUREMENTS LEVELS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT THE WORK TO THE ACTUAL CONDITIONS AT THE PROJECT SITE.</li> <li>CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMITTING A BID TO COVER THE CONDITIONS AT THE SITE, INFORMING THEMSELVES OF ALL DETAILS.</li> <li>ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS, ACTS, AND ORDINANCES, AND ALL AUTHORITIES HAVING JURISDICTION.</li> <li>THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL ENGINEERING REQUIREMENTS, THE OWNER'S DESIGN CRITERIA, UTILITY COMPANY REQUIREMENTS, APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE AND SAFETY, AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT, PRODUCT APPLICATION, AND INSTALLATION.</li> <li>MANUFACTURERS' NAMES ON WHICH THIS SPECIFICATION IS BASED INDICATE THE MINIMUM QUALITY OF PRODUCT REQUIRED BY ARCHITECT/ENGINEER. SUBSTITUTIONS MAY BE MADE TO THOSE SPECIFIED IF DEEMED EQUIVALENT BY THE ARCHITECT/ENGINEER DURING SUBMITTAL REVIEW.</li> <li>RECORD DRAWINGS - PREPARE AND SUBMIT TO THE OWNER RECORD DRAWINGS INDICATING THE EXACT LOCATION OF ALL EQUIPMENT INCLUDING THE EQUIPMENTS' AS INSTALLED' SIZES(S), MANUFACTURER, MODEL, NUMBERS, AND PERFORMANCE RATINGS.</li> <li>SUPPORTS - EQUIPMENT, PIPING, DUCTWORK, OR ANY OTHER ACCESSORY SHALL NOT BE SUPPORTED FROM OTHER PIPING, DUCTWORK, METAL ROOF DECK, LATERAL BRACING BRIDGING, OR CONDUIT. ITEMS SHALL ONLY BE SUPPORTED FROM BUILDING STRUCTURE.</li> <li>COORDINATE EXACT LOCATION OF ALL DUCTWORK, AIR TERMINAL UNITS, PIPING, ETC., WITH STRUCTURAL, ARCHITECTURAL, ELECTRICAL, AND OTHER MECHANICAL SYSTEMS.</li> <li>WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL MECHANICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.</li> <li>ALL DUCTWORK, PIPING, AND TEMPERATURE CONTROL CONDUIT TO VIBRATING EQUIPMENT SHALL HAVE FLEXIBLE CONNECTORS.</li> <li>IF ASBESTOS IS ENCOUNTERED OR SUSPECTED, HALT WORK IMMEDIATELY IN THESE AREAS AND NOTIFY CONTRACTING OFFICERS REPRESENTATIVE BEFORE PROCEEDING. DO NOT DAMAGE OR DISTURB SUSPECTED ASBESTOS CONTAINING MATERIAL. COORDINATE ALL REMOVAL WITH THE CONSTRUCTION MANAGER AND OWNER.</li> <li>COORDINATE ALL ROOF AND CHASE PENETRATIONS WITH STRUCTURAL DRAWINGS AND ROOF INSTALLER.</li> <li>CONTRACTOR TO BE RESPONSIBLE FOR PROTECTION OF THEIR EMPLOYEES FROM ANY LEAD DUST THAT MAY BE ENCOUNTERED.</li> <li>THE LOCATION OF UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK.</li> <li>ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.</li> <li>CONTRACTOR TO COORDINATE DUCTWORK WITH FIRE RATED WALLS AND FLOORS SHOWN ON ARCHITECTURAL DRAWINGS, MAINTAINING NECESSARY RATING OF WALLS. CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS TO SMOKE-FIRE DAMPERS.</li> <li>ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.</li> <li>MECHANICAL CONTRACTOR IS COMPLETELY RESPONSIBLE FOR PROVIDING ALL PRESSURE AND/OR TEMPERATURE TAPS IN PIPING AS REQUIRED FOR PROPER BALANCING OF ALL SYSTEMS.</li> <li>BEFORE INSTALLATION, EQUIPMENT CONTRACTOR SHALL VERIFY THAT COILS CAN BE REMOVED WITHOUT INTERFERENCE. CONTRACTOR SHALL PROVIDE ADEQUATE ACCESS AND COIL REMOVAL SPACE FOR ALL EQUIPMENT.</li> <li>ACCESS PANELS ARE REQUIRED (MIN. 18"x18") FOR ACCESS TO EVERY VALVE, DAMPER, AIR TERMINAL UNIT, AND CONTROL SENSOR IF NOT OTHERWISE ACCESSIBLE. ACCESS PANEL SHALL BE APPROVED BY ARCHITECT/ENGINEER.</li> <li>SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE ELECTRICAL DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.</li> </ol>																																																																																																																																																																																																																																																			
		<p><b>NOTE: ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS.</b></p>																																																																																																																																																																																																																																																					
<b>NOTE:</b>		<b>MISCELLANEOUS</b>		<b>SCOPE OF WORK</b>																																																																																																																																																																																																																																																			
<p>THIS IS A MASTER SYMBOLS LIST. ALL SYMBOLS, ABBREVIATIONS, ETC. MAY NOT NECESSARILY BE USED ON ALL DRAWINGS.</p>		<p><b>MECHANICAL</b></p> <p>Thermostat 48" (ADA) / 60"</p> <p>Controls 48" (ADA) / 60"</p> <p><b>PLUMBING</b></p> <p>Drinking Fountains (Spouts) 36"</p> <p>Water Closets 17"-19"</p> <p>Urinals 17"</p> <p>Lavatories 34"</p> <p>Bathrooms (Rim) 9"</p> <p>Spray Hose (Shower) 60"</p> <p>Shower Controls 48"</p>		<p><b>MECHANICAL</b></p> <ul style="list-style-type: none"> <li>ALTERATION OF EXISTING VOCATIONAL TECHNOLOGY BUILDING FOR SCHOOL DEPARTMENT ADMINISTRATION USE. REMOVAL OF EXISTING GAS FIRED UNIT HEATERS. (2) NEW HIGH EFFICIENCY GAS-FIRED, DX, SPLIT SYSTEMS TO PROVIDE HEATING, COOLING, AND VENTILATION FOR RENOVATED SPACES. EXISTING VEHICLE STORAGE IN REAR OF BUILDING TO REMAIN AS-IS.</li> </ul> <p><b>PLUMBING</b></p> <ul style="list-style-type: none"> <li>REPLACEMENT OF EXISTING ELECTRIC WATER HEATER. REPLACEMENT OF EXISTING RESTROOM LAVATORIES AND WATER CLOSETS. ADDITION OF NEW REDUCED PRESSURE ZONE VALVE AT EXISTING CW ENTRY. NEW DRINKING FOUNTAIN.</li> </ul>																																																																																																																																																																																																																																																			
<p><b>IMC VENTILATION RATE PROCEDURE CALCULATIONS</b></p> <table border="1"> <thead> <tr> <th>System</th> <th>Space</th> <th>Class</th> <th>A<sub>v</sub></th> <th>Density</th> <th>P<sub>1</sub></th> <th>R<sub>1</sub></th> <th>R<sub>2</sub></th> <th>R<sub>3</sub></th> <th>Ex. Rate</th> <th>Exhaust</th> <th>V<sub>ei</sub></th> <th>E<sub>i</sub></th> <th>V<sub>ei</sub></th> <th>V<sub>ei</sub></th> <th>Z</th> <th>System</th> <th>V<sub>ei</sub></th> <th>MAX Z</th> <th>E<sub>i</sub></th> <th>V<sub>ei</sub></th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>RTU-1</td> <td>Lobby 1</td> <td>Main Entry Lobbies</td> <td>301</td> <td>0.01</td> <td>4</td> <td>5</td> <td>0.06</td> <td>0</td> <td>0</td> <td>0</td> <td>38</td> <td>0.8</td> <td>48</td> <td>240</td> <td>0.20</td> <td>RTU-1</td> <td>212</td> <td>0.24</td> <td>0.91</td> <td>233</td> <td>Multiple Zone</td> </tr> <tr> <td>RTU-1</td> <td>Office 1</td> <td>Office Spaces</td> <td>166</td> <td>0.005</td> <td>1</td> <td>5</td> <td>0.06</td> <td>0</td> <td>0</td> <td>0</td> <td>15</td> <td>0.8</td> <td>19</td> <td>130</td> <td>0.14</td> <td>RTU-2</td> <td>311</td> <td>0.20</td> <td>0.95</td> <td>327</td> <td>Multiple Zone</td> </tr> <tr> <td>RTU-1</td> <td>Office 2</td> <td>Office Spaces</td> <td>168</td> <td>0.005</td> <td>1</td> <td>5</td> <td>0.06</td> <td>0</td> <td>0</td> <td>0</td> <td>15</td> <td>0.8</td> <td>19</td> <td>130</td> <td>0.15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RTU-2</td> <td>Break Room</td> <td>Break Room</td> <td>346</td> <td>0.025</td> <td>9</td> <td>5</td> <td>0.06</td> <td>0</td> <td>0</td> <td>0</td> <td>66</td> <td>0.8</td> <td>82</td> <td>450</td> <td>0.18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RTU-1</td> <td>Super Int. Office</td> <td>Office Spaces</td> <td>192</td> <td>0.005</td> <td>1</td> <td>5</td> <td>0.06</td> <td>0</td> <td>0</td> <td>0</td> <td>17</td> <td>0.8</td> <td>21</td> <td>150</td> <td>0.14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RTU-1</td> <td>Super Int. Conf</td> <td>Conference Rooms</td> <td>205</td> <td>0.05</td> <td>11</td> <td>5</td> <td>0.06</td> <td>0</td> <td>0</td> <td>0</td> <td>67</td> <td>0.8</td> <td>84</td> <td>350</td> <td>0.24</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RTU-2</td> <td>Hall 151</td> <td>Corridors</td> <td>371.83</td> <td>-</td> <td>-</td> <td>-</td> <td>0.06</td> <td>0</td> <td>0</td> <td>0</td> <td>22</td> <td>0.8</td> <td>28</td> <td>150</td> <td>0.19</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RTU-1</td> <td>Restrooms</td> <td>Restrooms and Bathrooms</td> <td>197</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>20/50</td> <td>150</td> <td>0</td> <td>0.8</td> <td>0</td> <td>100</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RTU-2</td> <td>Conference Rooms</td> <td>Conference Rooms</td> <td>509</td> <td>0.05</td> <td>26</td> <td>5</td> <td>0.06</td> <td>0</td> <td>0</td> <td>0</td> <td>161</td> <td>0.8</td> <td>201</td> <td>1000</td> <td>0.20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RTU-1</td> <td>Closet</td> <td>Storage Rooms</td> <td>145</td> <td>-</td> <td>-</td> <td>-</td> <td>0.12</td> <td>0</td> <td>0</td> <td>0</td> <td>17</td> <td>0.8</td> <td>22</td> <td>100</td> <td>0.22</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>GENERAL NOTES:</b>    1. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT SIZING.</p>						System	Space	Class	A <sub>v</sub>	Density	P <sub>1</sub>	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	Ex. Rate	Exhaust	V <sub>ei</sub>	E <sub>i</sub>	V <sub>ei</sub>	V <sub>ei</sub>	Z	System	V <sub>ei</sub>	MAX Z	E <sub>i</sub>	V <sub>ei</sub>	Type	RTU-1	Lobby 1	Main Entry Lobbies	301	0.01	4	5	0.06	0	0	0	38	0.8	48	240	0.20	RTU-1	212	0.24	0.91	233	Multiple Zone	RTU-1	Office 1	Office Spaces	166	0.005	1	5	0.06	0	0	0	15	0.8	19	130	0.14	RTU-2	311	0.20	0.95	327	Multiple Zone	RTU-1	Office 2	Office Spaces	168	0.005	1	5	0.06	0	0	0	15	0.8	19	130	0.15							RTU-2	Break Room	Break Room	346	0.025	9	5	0.06	0	0	0	66	0.8	82	450	0.18							RTU-1	Super Int. Office	Office Spaces	192	0.005	1	5	0.06	0	0	0	17	0.8	21	150	0.14							RTU-1	Super Int. Conf	Conference Rooms	205	0.05	11	5	0.06	0	0	0	67	0.8	84	350	0.24							RTU-2	Hall 151	Corridors	371.83	-	-	-	0.06	0	0	0	22	0.8	28	150	0.19							RTU-1	Restrooms	Restrooms and Bathrooms	197	-	-	-	-	20/50	150	0	0.8	0	100	0.00								RTU-2	Conference Rooms	Conference Rooms	509	0.05	26	5	0.06	0	0	0	161	0.8	201	1000	0.20							RTU-1	Closet	Storage Rooms	145	-	-	-	0.12	0	0	0	17	0.8	22	100	0.22						
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## COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

### Project Information

Energy Code: 2018 IECC  
Project Title: MOFFAT SCHOOLS  
Location: Moffat, Colorado  
Climate Zone: 6b  
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:  
501 GARFIELD AVE.  
MOFFAT, Colorado 81143

### Mechanical Systems List

#### Quantity System Type & Description

- 1 HVAC System - 1 (Single Zone):  
Heating: 1 each - Central Furnace (F-1), Propane, Capacity = 80 kBtu/h  
No minimum efficiency requirement applies  
Cooling: 1 each - Split System (CS1.1), Capacity = 36 kBtu/h, Air-Cooled Condenser, Unknown Economizer  
Proposed Efficiency = 18.00 SEER, Required Efficiency = 13.00 SEER  
Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00  
Fan System: FAN SYSTEM 1 | CONFERENCE - Compliance (Motor nameplate HP and fan efficiency method) : Passes  
Fans:  
FAN 1 Supply, Constant Volume, 1200 CFM, 1.0 motor nameplate hp, 67.0 fan efficiency grade, 96.0 total fan efficiency, 96.0 design fan efficiency, fan exception: Single fan <= 3hp
- 1 HVAC System - 2 (Single Zone):  
Heating: 1 each - Central Furnace (F-2), Propane, Capacity = 80 kBtu/h  
No minimum efficiency requirement applies  
Cooling: 1 each - Split System (CS2.1), Capacity = 48 kBtu/h, Air-Cooled Condenser, Unknown Economizer  
Proposed Efficiency = 18.00 SEER, Required Efficiency = 13.00 SEER  
Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00  
Fan System: FAN SYSTEM 2 | OFFICES - Compliance (Motor nameplate HP and fan efficiency method) : Passes  
Fans:  
FAN 2 Supply, Constant Volume, 1600 CFM, 1.0 motor nameplate hp, 67.0 fan efficiency grade, 96.0 total fan efficiency, 96.0 design fan efficiency, fan exception: Single fan <= 3hp
- 1 HVAC System (Unknown w/ Perimeter System):  
Heating: 2 each - Unit Heater, Electric, Capacity = 10 kBtu/h  
No minimum efficiency requirement applies
- 1 Water Heater:  
Electric Storage Water Heater, Capacity: 40 gallons w/ Circulation Pump  
No minimum efficiency requirement applies

### Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
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## COMcheck Software Version COMcheckWeb Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

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

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR3]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

### Additional Comments/Assumptions:

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

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
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Section # & Req. ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2 [FG01]	Slowice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature, future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	

### Additional Comments/Assumptions:

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

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
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Section # & Req. ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5.1 [C404.5.2 [PL6]]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.1 [PL7]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heater.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.3 [PL7]	Pumps that circulate water between heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.7 [PL8]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

### Additional Comments/Assumptions:

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

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
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Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C403.11.3 [ME61]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.8.1 [ME65]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.8.3 [ME117]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.8.4 [ME142]	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.8.5 [ME143]	Each DX cooling system > 65 kBtu/h and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.12.1 [ME71]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C403.2 [ME59]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.7.1 [ME59]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C403.7.2 [ME115]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C403.7.6 [ME141]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms. Each guestroom is provided with controls that automatically manage temperature setpoints and ventilation (see sections C403.7.6.1 and C403.7.6.2).	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

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

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
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Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.4 [ME57]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C403.7.5 [ME136]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C403.11.1 [ME60]	HVAC ducts and plenums insulated in accordance with C403.11.1 and C403.11.2, verification may need to occur during Foundation Inspection.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.1 [ME63]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input checked="" type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.3.3 [ME35]	Hot gas bypass limited to: <= 240 kBtu/h - 50% >240 kBtu/h - 25%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input checked="" type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.2 [ME53]	Air outlets and zone terminal devices have means for air balancing.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5.1 [ME123]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Section C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input checked="" type="checkbox"/> Not Applicable	

### Additional Comments/Assumptions:

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

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
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### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION
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### MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 8/5/2024  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

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### COMCHECK

NORTH



# MP0.1

REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION
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MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS  
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COMCHECK



MP0.2

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26]²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C405.7 [EL27]²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C405.8.2.1 [EL28]²	Escalators and moving walks comply with ASME A17.1, CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1, CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input checked="" type="checkbox"/> Not Applicable	
C405.9 [EL29]²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

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

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
 Data filename: Page 7 of 9

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5 [F18]²	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.2 [F127]²	HVAC systems and equipment capacity does not exceed calculated loads.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1 [F147]²	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.1 [F138]²	Thermostatic controls have a 5 °F deadband.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1.3 [F120]²	Temperature controls have setpoint overlap restrictions.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2 [F139]²	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2.1, C403.2.4.2.2 [F140]²	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2.3 [F141]²	Systems include optimum start controls.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.3 [F111]²	Heat traps installed on supply and discharge piping of non-circulating systems.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.4 [F125]²	All piping insulated in accordance with section details and Table C403.11.3.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.1 [F112]²	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

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

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
 Data filename: Page 8 of 9

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.1.1 [F157]²	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building equipment and systems are intended to be installed, maintained, and operated.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.1 [F128]²	Commissioning plan developed by registered design professional or approved agency.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.1 [F131]²	HVAC equipment has been tested to ensure proper operation.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.2 [F110]²	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.4 [F129]²	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.1 [F17]²	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.3 [F143]²	An air and/or hydronic system balancing report is provided for HVAC systems.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.4 [F130]²	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

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

Project Title: MOFFAT SCHOOLS Report date: 08/02/24  
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CONDENSING UNIT SCHEDULE

Table with columns: ITEM, MANUFACTURER & MODEL NO., SERVES, COOLING SECTION (TYPE, REFR., MBH (TOT.), MBH (SENS)), ELECTRICAL (RLA, LRA, MCA, MOCOP, V/PH/Hz), WEIGHT (LBS), NOTES. Includes items CU-1 and CU-2.

PLUMBING FIXTURE SCHEDULE

Table with columns: MARK, MANUFACTURER & MODEL OR EQUAL, DESCRIPTION, CW, HW, W, V. Lists various plumbing fixtures like water heaters, expansion tanks, pumps, valves, and faucets.

FURNACE SCHEDULE (GAS)

Table with columns: ITEM, MANUFACTURER & MODEL NO., SERVES, SUPPLY FAN INFORMATION (AIRFLOW, OSA, ESP, HP, DRIVE), HEATING SECTION (FUEL, EFF., INPUT, OUTPUT), COOLING SECTION (TYPE, REFR., MBH (TOT.), MBH (SENS)), ELECTRICAL (MCA, MOCOP, V/PH/Hz), WEIGHT (LBS), NOTES. Includes items F-1 and F-2.

FAN SCHEDULE

Table with columns: MARK, MANUFACTURER & MODEL OR EQUAL, SERVES, FAN INFORMATION (CFM, E.S.P.), MOTOR (POWER, VOLTS/PH/Hz), DRIVE, NOTES. Includes items EF-1 and EF-2.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

Table with columns: MARK, MANUFACTURER & MODEL OR EQUAL, TYPE, MODULE (SIZE), PERFORMANCE (MAX. NC, MAX. APD), NOTES. Lists diffusers, registers, and grilles.

PIPING APPLICATION SCHEDULE

Table with columns: SERVICE, LOCATION, PIPE, FITTING, NOTES. Details piping applications for domestic cold/hot water, sanitary waste, condensate, and fuel gas.

ELECTRIC HEATER SCHEDULE

Table with columns: ITEM, MANUFACTURER & MODEL NO., AIRFLOW (CFM), AMPS, WATTS, V/PH/Hz, NOTES. Lists electric heaters EUH-1, EUH-2, and EUH-3.

PIPING INSULATION SCHEDULE

Table with columns: SERVICE, NOMINAL PIPE SIZE, INSULATION THICKNESS. Lists insulation requirements for refrigerant, hot water, and cold water.

MECHANICAL AND PLUMBING NOTES

MECHANICAL AND PLUMBING NOTES. A. GENERAL: 1. WHILE ALL WORK IS IN PROGRESS... 2. ANY WORK WHICH WILL AFFECT THE BUILDING OCCUPANTS... 3. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH ARCHITECT AND OWNER... B. MECHANICAL/ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT: 1. CONTRACTOR SHALL REVIEW ELECTRICAL POWER REQUIREMENTS... C. CONTROLS: 1. TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE A COMPLETE NEW/MODIFIED CONTROL SYSTEM...

REVISIONS SCHEDULE table with columns: MARK, DATE, DESCRIPTION.



MOFFAT ADMINISTRATION BUILDING RENOVATION

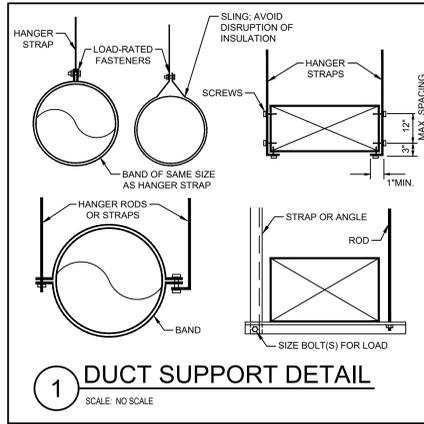
PROJECT: 24031 DATE: 8/5/2024  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

MECHANICAL AND PLUMBING SCHEDULES

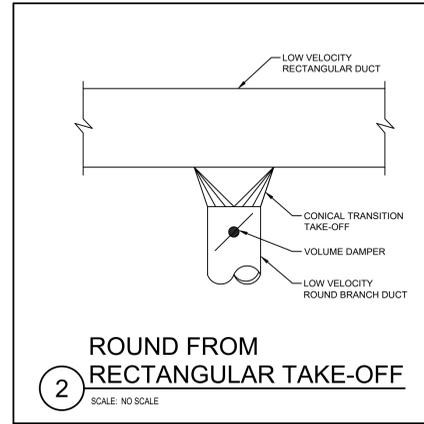
NORTH



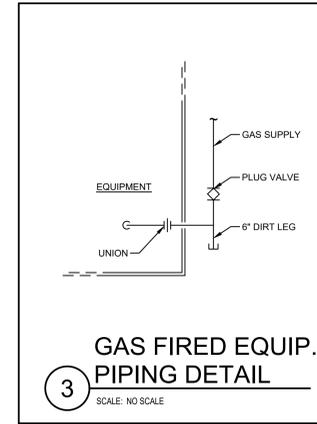
MP0.3



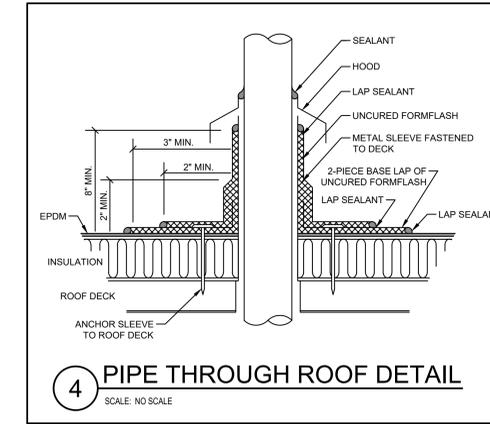
**1 DUCT SUPPORT DETAIL**  
 SCALE: NO SCALE



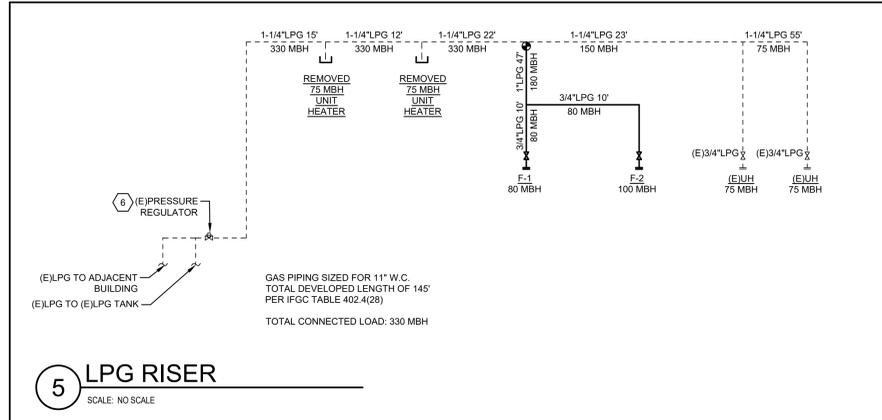
**2 ROUND FROM RECTANGULAR TAKE-OFF**  
 SCALE: NO SCALE



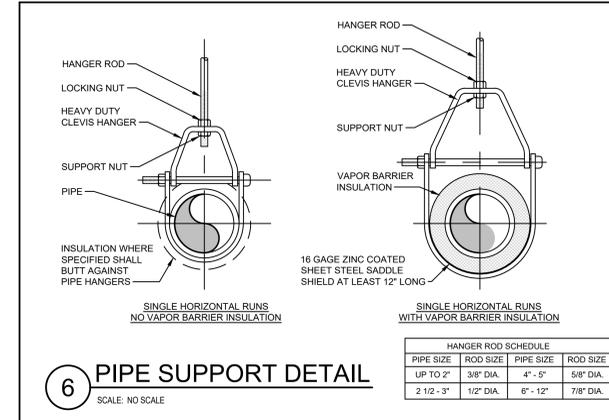
**3 GAS FIRED EQUIP. PIPING DETAIL**  
 SCALE: NO SCALE



**4 PIPE THROUGH ROOF DETAIL**  
 SCALE: NO SCALE

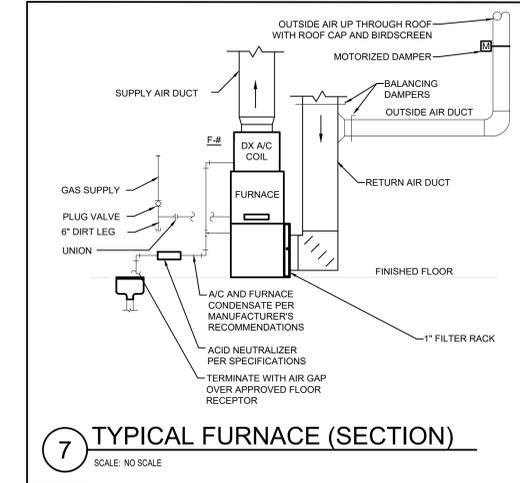


**5 LPG RISER**  
 SCALE: NO SCALE

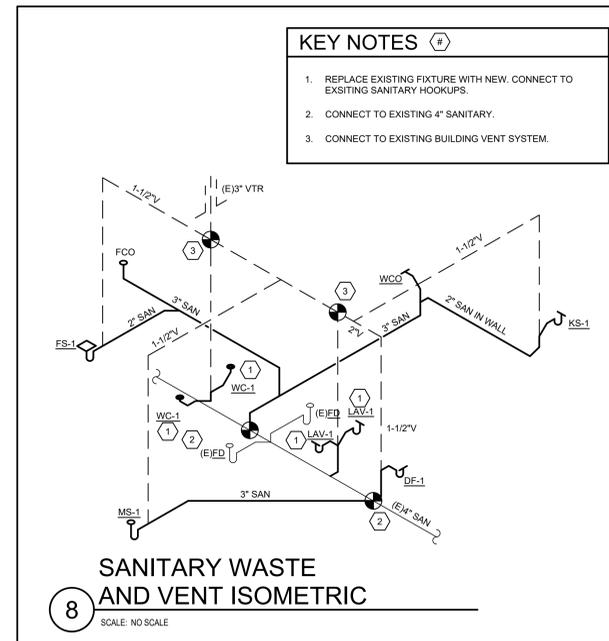


**6 PIPE SUPPORT DETAIL**  
 SCALE: NO SCALE

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" - 5"	5/8" DIA.
2 1/2" - 3"	1/2" DIA.	6" - 12"	7/8" DIA.

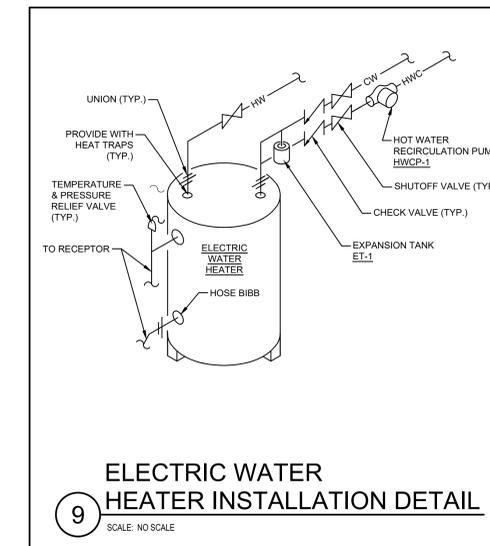


**7 TYPICAL FURNACE (SECTION)**  
 SCALE: NO SCALE



**8 SANITARY WASTE AND VENT ISOMETRIC**  
 SCALE: NO SCALE

- KEY NOTES**
1. REPLACE EXISTING FIXTURE WITH NEW. CONNECT TO EXISTING SANITARY HOOKUPS.
  2. CONNECT TO EXISTING 4" SANITARY.
  3. CONNECT TO EXISTING BUILDING VENT SYSTEM.



**9 ELECTRIC WATER HEATER INSTALLATION DETAIL**  
 SCALE: NO SCALE

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION



MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 8/5/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS

MECHANICAL AND PLUMBING DETAILS



### GENERAL NOTES

- A. ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ORDINANCES.
- B. REFERENCE ALL OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK OR CLARIFICATION OF NECESSARY WORK.

### KEY NOTES

1. REMOVE ALL MECHANICAL EQUIPMENT IN THIS SPACE. CAP GAS PIPING AT NEAREST GAS MAIN.
2. REMOVE EXISTING ELECTRIC WATER HEATER FROM ABOVE CEILING. CAP EXISTING CWHHW FOR RECONNECTION TO NEW WATER HEATER.
3. REMOVE EXISTING WATER CLOSET. EXISTING SANITARY AND CW SUPPLY TO REMAIN FOR RECONNECTION TO NEW WATER CLOSET.
4. REMOVE EXISTING LAVATORY. SANITARY, CW, AND HW TO REMAIN FOR RECONNECTION TO NEW LAVATORY.
5. REMOVE EXISTING SANITARY AND CW AT PREVIOUSLY REMOVED DRINKING FOUNTAIN. EXISTING SANITARY AND EXISTING CW TO BE RECONFIGURED FOR RECONNECTION TO NEW DRINKING FOUNTAIN.
6. REMOVE EXISTING DRENCH SHOWER AND EYE WASH STATION. REMOVE EXISTING CW SUPPLY AND CAP AT NEAREST MAIN.
7. (E)C(W)E(H)W TO EXISTING RESTROOMS TO REMAIN.

### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION



### MOFFAT ADMINISTRATION BUILDING RENOVATION

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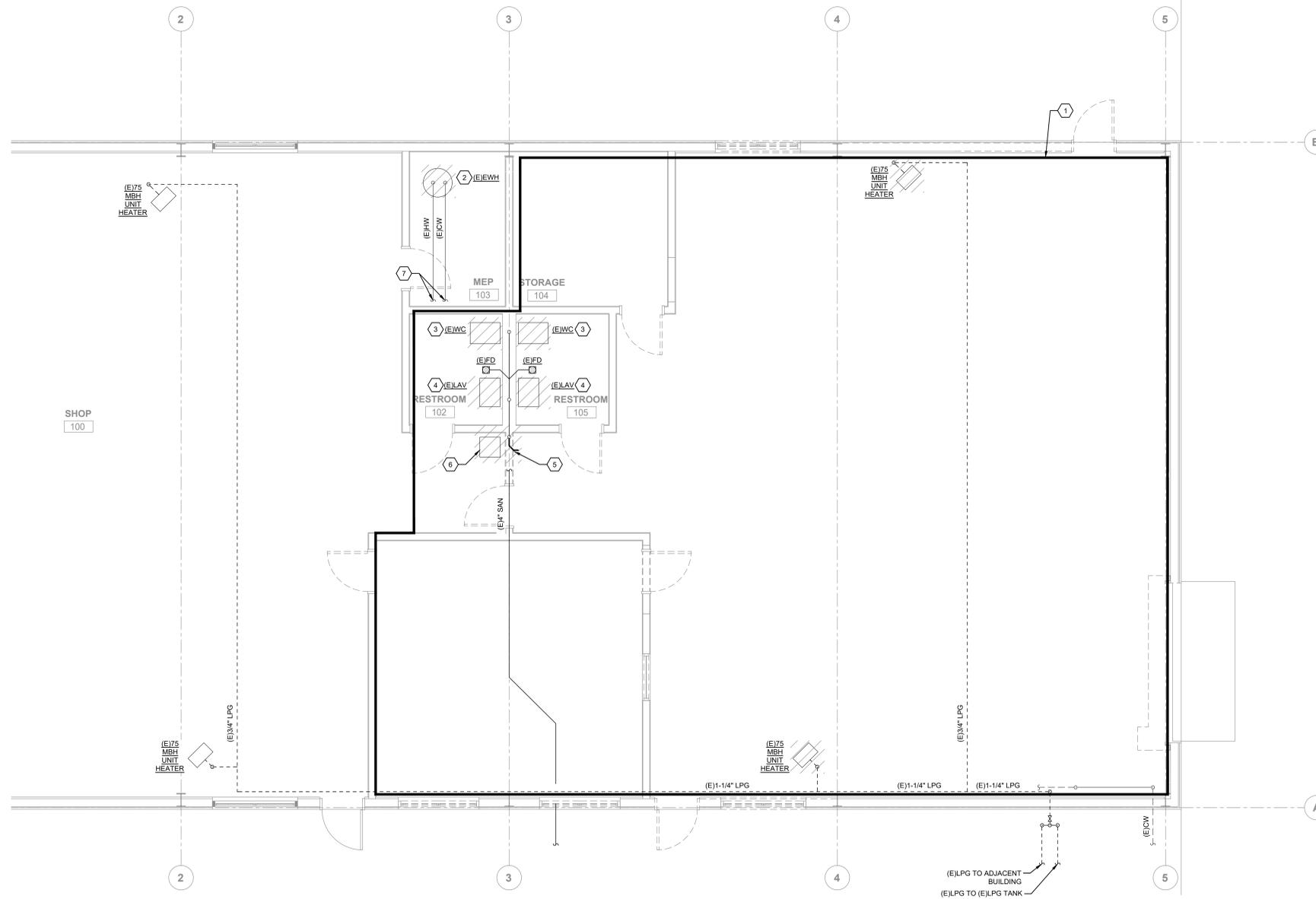
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### MECHANICAL AND PLUMBING DEMOLITION PLAN

NORTH



MP1.0



## 1 DEMOLITION PLAN MECHANICAL AND PLUMBING

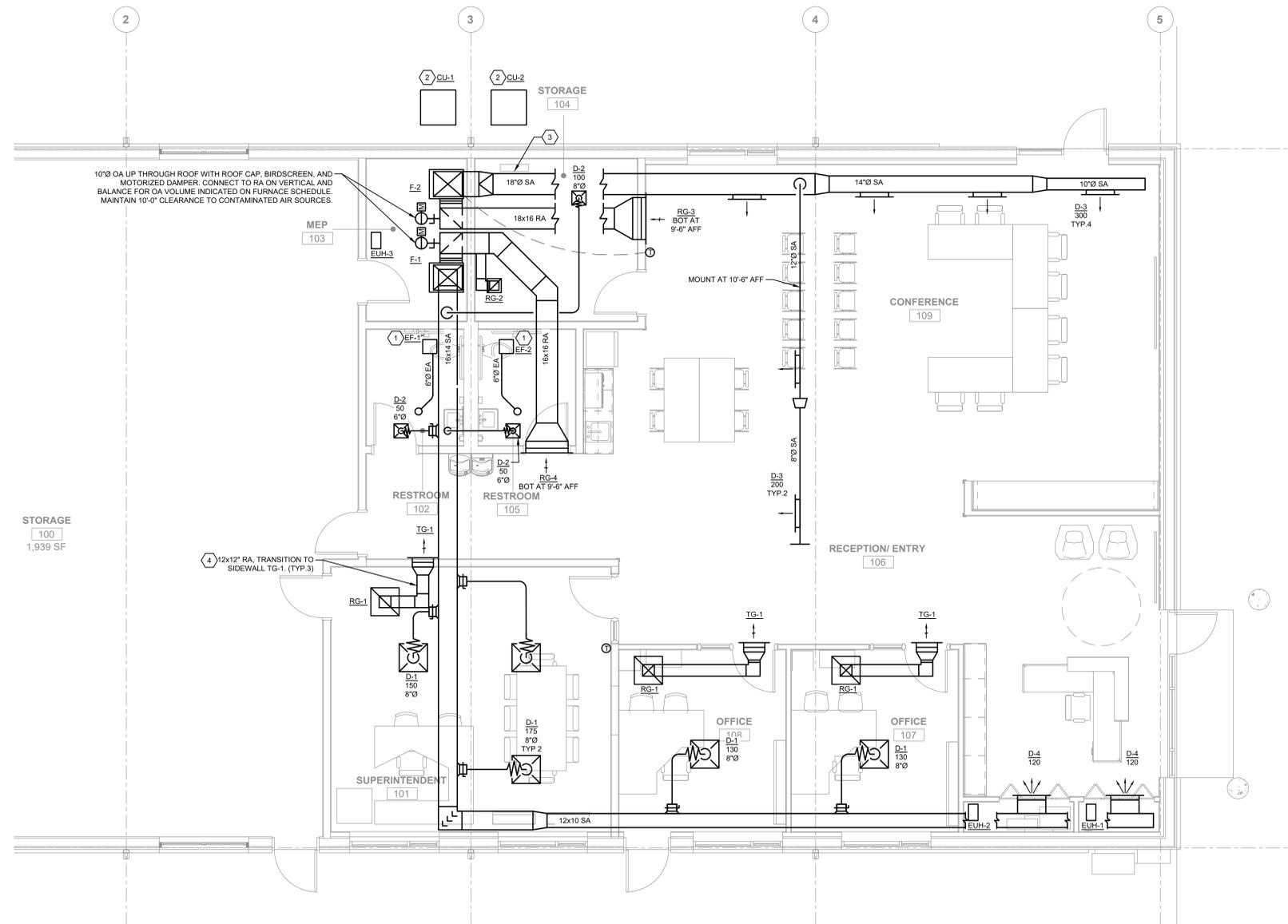
SCALE: 1/4" = 1'-0"

### GENERAL NOTES

- A. ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ORDINANCES.
- B. REFERENCE ALL OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK OR CLARIFICATION OF NECESSARY WORK.

### KEY NOTES

1. 6"Ø EA UP THROUGH ROOF WITH ROOF CAP, BIRDSCREEN, AND BACKDRAFT DAMPER. MAINTAIN 10'-0" CLEARANCE TO OUTSIDE AIR INTAKES.
2. MOUNT CONDENSING UNIT ON 4" HOUSEKEEPING PAD. ROUTE RS/RL LINESET TO INDOOR COIL PER MANUFACTURER INSTRUCTIONS. SEAL EXTERIOR PENETRATIONS. PROVIDE PENETRATION WITH AIREX PROSYSTEM KIT OR SIMILAR.
3. COORDINATE DUCT ROUTE TO AVOID CROSSING OVER EXISTING ELECTRICAL PANEL.
4. PROVIDE TRANSFER DUCT WITH MINIMUM 1" ACOUSTIC LINER.



### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION



### MOFFAT ADMINISTRATION BUILDING RENOVATION

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## 1 FIRST FLOOR MECHANICAL PLAN

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

### MECHANICAL PLAN

NORTH



# M1.0

### GENERAL NOTES

- A. ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ORDINANCES.
- B. REFERENCE ALL OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK OR CLARIFICATION OF NECESSARY WORK.

### KEY NOTES

1. PROVIDE NEW RPZ AT EXISTING CW ENTRY. ENLARGE TO 1" DISTRIBUTION DIRECTLY AFTER NEW RPZ. CONNECT (E)3/4" CW AT PENETRATION THROUGH FLOOR. NEW 3/4" CW TO CONTINUE ABOVE CEILING TO NEW PLUMBING FIXTURES.
2. PROVIDE 1/2" CW CONNECTION TO OWNER PROVIDED KEURIG, PER MANUFACTURER'S INSTRUCTIONS. COORDINATE LOCATION WITH OWNER.
3. CONNECT NEW LAVATORY/WATER CLOSET TO EXISTING DOMESTIC HW/CW FROM REMOVED PLUMBING FIXTURE.
4. CONNECT NEW DRINKING FOUNTAIN TO RECONFIGURED (E)CW.
5. COORDINATE CW PIPE ROUTING TO AVOID CROSSING OVER IT EQUIPMENT.
6. CONTRACTOR TO VERIFY EXISTING PRESSURE REGULATOR IS CONFIGURED FOR 11" W.C. OUTLET PRESSURE AND ADJUST/REPLACE AS NECESSARY.
7. CONTRACTOR TO PROVIDE FINAL CONNECTION TO EQUIPMENT.

### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION

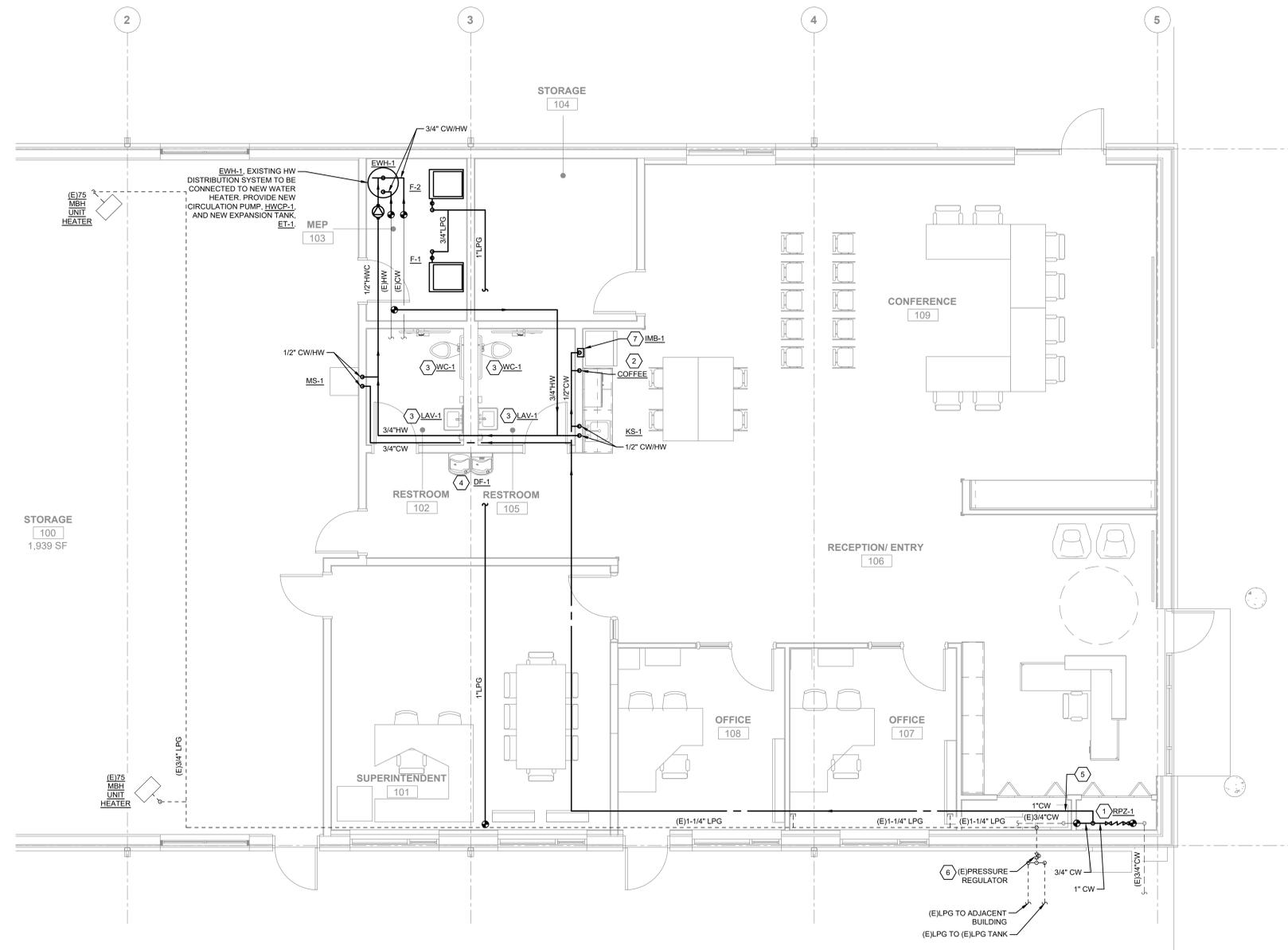


### MOFFAT ADMINISTRATION BUILDING RENOVATION

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### PLUMBING PLAN - DOMESTIC WATER AND GAS

NORTH



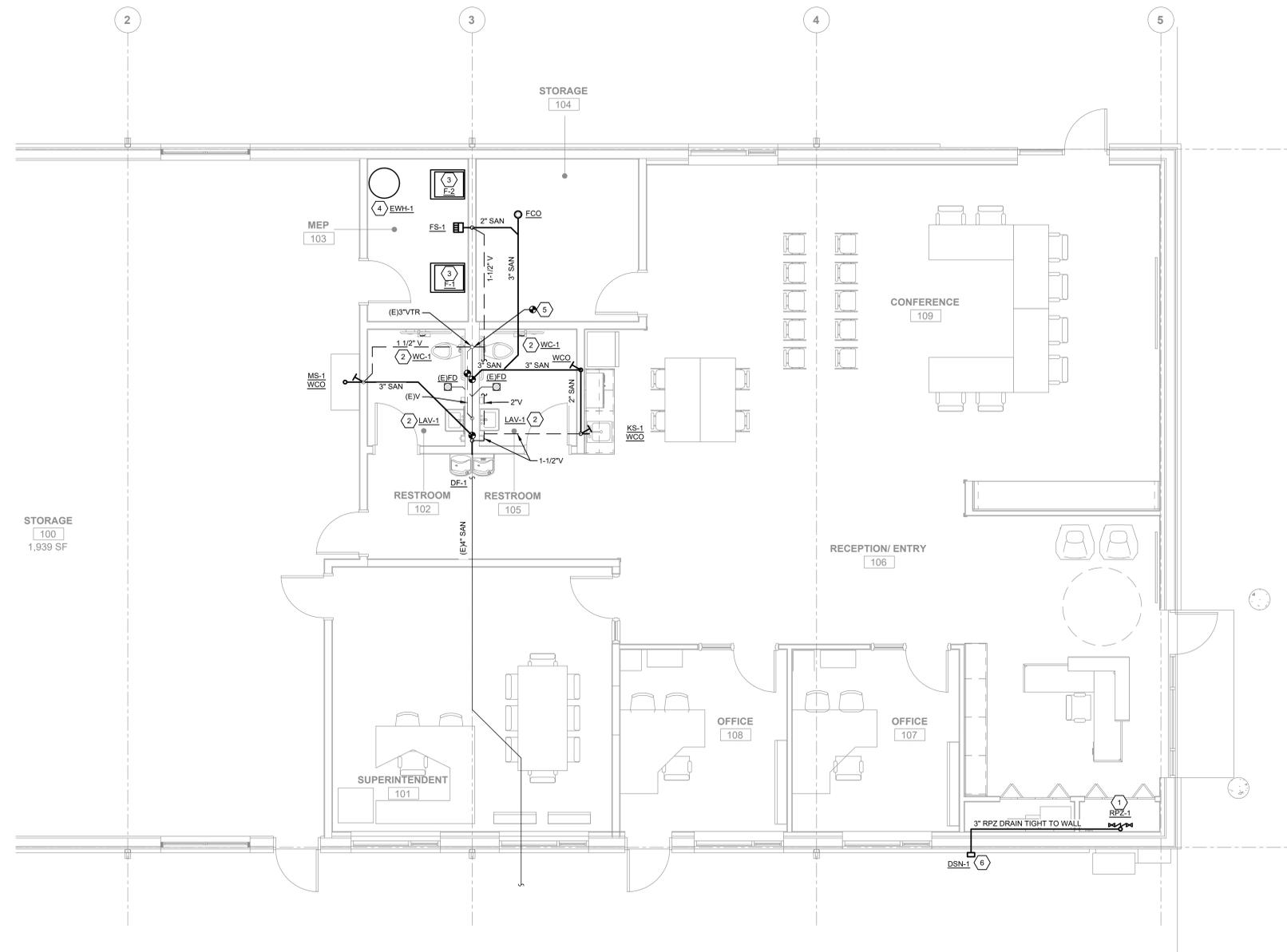
**1** PLUMBING PLAN  
 DOMESTIC WATER AND GAS  
 SCALE: 1/4" = 1'-0"

### GENERAL NOTES

- A. ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES AND ORDINANCES.
- B. REFERENCE ALL OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK OR CLARIFICATION OF NECESSARY WORK.

### KEY NOTES

1. PROVIDE NEW RPZ AT EXISTING CW ENTRY. ROUTE RPZ DRAIN THROUGH WALL AND DISCHARGE TO EXTERIOR, COORDINATE PENETRATION THROUGH WALL TO AVOID BUILDING ELECTRICAL SERVICE GEAR AND ENTRY.
2. CONNECT NEW FIXTURE TO EXISTING SANITARY.
3. ROUTE FURNACE FLUE CONDENSATE THROUGH CONDENSATE NEUTRALIZER AND DISCHARGE TO FLOOR SINK WITH AIR BREAK.
4. ROUTE EWH-1 T&P VALVE TO FLOOR SINK WITH AIR BREAK.
5. CONNECT NEW 2"V TO EXISTING SANITARY VENT SYSTEM ABOVE RESTROOM CEILING.
6. TERMINATE RPZ DISCHARGE WITH DSN-1.



STORAGE  
 100  
 1,939 SF

**1** PLUMBING PLAN  
 SANITARY WASTE AND VENT  
 SCALE: 1/4" = 1'-0"

### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION



### MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 8/5/2024  
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### PLUMBING PLAN - SANITARY WASTE AND VENT

NORTH



REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION



MOFFAT  
ADMINISTRATION  
BUILDING RENOVATION

PROJECT: 24031 DATE: 08/05/2024  
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ELECTRICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- PROVIDE ELECTRICAL DEMOLITION REQUIRED. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN AND/OR RESTORE CONTINUITY OF SERVICE TO EXISTING CIRCUITS.
- FIELD VERIFY EXISTING EQUIPMENT OR CIRCUITS THAT ARE REMAINING TO BE RECONNECTED TO NEW OR EXISTING SWITCHBOARDS/PANELBOARDS. PROVIDE SWITCHES, RECEPTACLES, CONDUIT, WIRE, ETC. AS REQUIRED TO RESTORE CONTINUITY OF CIRCUIT(S).
- PROVIDE ALL NECESSARY DEMOLITION TO REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, J-BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARM DEVICES, ETC. COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE. WHERE IT IS NOT FEASIBLE TO REMOVE THE ABOVE, OUTLET SHALL BE ABANDONED, WIRE REMOVED AND BLANK COVER PLATES PROVIDED.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- EXISTING SYSTEMS AND CONDITIONS SHOWN ON DRAWINGS FOR EXISTING BUILDINGS ARE TO BE NOTED FOR GUIDANCE ONLY. THE ELECTRICAL CONTRACTOR TO FIELD CHECK ALL EXISTING CONDITIONS PRIOR TO BIDDING AND TO INCLUDE IN HIS BID AN ALLOWANCE FOR REMOVAL AND/OR RELOCATION OF EXISTING CONDUITS, WIRES, DEVICES, FIXTURES, OR OTHER EQUIPMENT AS INDICATED ON THE PLANS OR AS REQUIRED TO COORDINATE AND ADAPT NEW AND EXISTING ELECTRICAL SYSTEM TO ALL OTHER WORK AS REQUIRED.
- PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR SHALL SUBMIT A SYSTEM SHUTDOWN REQUEST FOR ALL SYSTEMS, I.E. HVAC, ELECTRICAL, FIRE ALARM, ECS, ETC
- REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
- WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.
- PROVIDE PERMITS AND INSPECTIONS REQUIRED.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
- FIRE ALARM SYSTEM SHALL BE DESIGNED AND SUBMITTED AS DELEGATED DESIGN SUBMITTAL. MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SHOP DRAWINGS ACCORDING TO SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE A SINGLE LINE DIAGRAM THAT SHOWS DEVICES, CONDUIT, WIRE, CABLE SIZES AND EQUIPMENT TO BE USED. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A REGISTERED ENGINEER. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.
- WIRE SHALL BE COPPER, 60 DEGREES C RATED FOR ALL CIRCUITS/FEEDERS 30 AMPS OR LESS, 75 DEGREES C RATED FOR ALL CIRCUITS/FEEDERS OVER 30 AMPS. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT CONDUCTOR AMPACITY SHALL BE DE-RATED FOR HIGHER AMBIENT INSTALLATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION, OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.
- SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.
- RECEPTACLES WHICH ARE SHOWN WALL MOUNTED ON THE ELECTRICAL DRAWINGS ON WALLS WHICH, ON THE ARCHITECTURAL DRAWINGS AND ELEVATIONS, ARE SHOWN AS GLASS OR PARTITIONS SHALL BE FLUSH FLOOR DUPLEX RECEPTACLES MOUNTED ADJACENT TO BASE OR WALLS.
- BOXES FOR TELEPHONE, TV, COMPUTER, WIRING DEVICES, ETC. SHALL BE MINIMUM 4" SQUARE.
- RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.
- SEE DIVISION 22 AND 23 DRAWINGS FOR LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE SERVICE TO, AND CONNECT EQUIPMENT AS REQUIRED.
- CONDUITS PENETRATING THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.
- FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL TIGHT FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
- WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4" CONDUIT SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS.
- ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY.
- PROVIDE CARBON MONOXIDE DETECTORS AS REQUIRED PER NFPA 72, 17.12. LOCATIONS INCLUDE BUT NOT LIMITED TO:
  - ADJACENT TO PERMANENTLY INSTALLED FUEL-BURNING APPLIANCES.
  - CENTRALLY LOCATED ON EVERY HABITABLE LEVEL AND IN EVERY HVAC ZONE OF THE BUILDING.
  - OUTSIDE OF EACH SEPARATE DWELLING UNIT, GUEST ROOM, AND GUEST SUITE SLEEPING AREA WITHIN 21 FT OF ANY DOOR TO A SLEEPING ROOM.

SCOPE OF WORK

PROVIDE LIGHTING AND POWER FOR THE RENOVATION OF THE EXISTING STORAGE AND SHOP BUILDING OWNED BY MOFFAT SCHOOLS. APPROXIMATELY 2,500SF OF SPACE WILL BE CONVERTED INTO NEW ADMINISTRATIVE OFFICES AND MEETING AREAS. EXISTING RESTROOMS WILL REMAIN.

ABBREVIATIONS

A	AMPS, AIR (COMPRESSED)
AC	ABOVE COUNTER
AFC	ABOVE FINISHED CEILING
AFEA	AREA FOR EVACUATION ASSISTANCE
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CURRENT BREAKER
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
AV	FOR AUDIO VISUAL MEDIA CABINET
BFF	BELOW FINISHED FLOOR
BKR	BREAKER
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT
C	CONDUIT
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG	CEILING
CM	COFFEE MAKER
CM	COPPER, CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DW	DISHWASHER
(E)	EXISTING
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
FBO	FURNISHED BY OTHERS
FF	FINISHED FLOOR
FHC	FIRE HOSE CABINET
FLA	FULL LOAD AMPS
FLR	FLOOR
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GND	GROUND
HSTAT	HUMIDISTAT
HTG	HEATING
HTR	HEATER
I	ISOLATED GROUND
KCMIL	1000 CIRCUAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPS
KVAR	KILOVOLT AMPS REACTIVE
KWH	KILOWATT
KWH	KILOWATT HOUR
LWD	LIGHT EMITTING DIODE
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MW	MICROWAVE
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
N/O,N/C	NORMALLY OPEN, NORMALLY CLOSED
NL	NIGHT LIGHT
OC	ON CENTER
O/V	OVER
PH	PHASE
PNL	PANEL
QTY	QUANTITY
(R)	REMOVE
(RL)	RELOCATE
RPC	REFLECTED CEILING PLAN
REF	REFRIGERATOR
REV	REVISION
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SQUARE FEET
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SP	STATIC PRESSURE
STO	SWITCH W/ THERMAL OVERLOAD
SWBD	SWITCHBOARD
TSTAT	THERMOSTAT
TL	TWISTLOCK
TV	TELEVISION
TYP	TYPICAL
U/F	UNDERFLOOR
U/G	UNDERGROUND
UIS	UNDER SLAB
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VAV	VARIABLE AIR VOLUME
VM	VENDING MACHINE
W	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

CODE SUMMARY

BUILDING CODE	2018 IBC
EXISTING BUILDING	2018 IEBC
FIRE	2018 IFC
MECHANICAL	2018 IMC
FUEL GAS	2018 IFGC
PLUMBING	2018 IPC
ENERGY CONSERVATION	2018 IECC
ELECTRICAL	2020 NEC
FIRE ALARM	2022 NFPA 72

LIGHTING

NOTE: UPPER CASE LETTER DENOTES LUMINAIRE TYPE. LOWER CASE LETTER ADJACENT TO LUMINAIRE INDICATES SWITCH THAT CONTROLS LUMINAIRE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.

	2' X 4' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	2' X 4' SURFACE LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	2' X 2' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	2' X 2' SURFACE MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	1' X 4' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	1' X 4' SURFACE MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	1' X 4' WALL MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	PENDANT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	FLUORESCENT STRIP TYPE LUMINAIRE, LENGTHS AS NOTED ON LUMINAIRE SCHEDULE
	SURFACE MOUNTED DOWNLIGHT, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	RECESSED MOUNTED DOWNLIGHT, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	WALL MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	WALL WASH LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	TRACK LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	CEILING FAN, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE
	CEILING MOUNTED EXIT SIGN, PROVIDE DIRECTIONAL ARROWS AS REQUIRED
	EMERGENCY BATTERY LUMINAIRE (2 HEAD) 84" AFF, UNLESS OTHERWISE NOTED
	EMERGENCY BATTERY LUMINAIRE (2 HEAD) WITH MOUNTED EXIT SIGN, PROVIDE DIRECTIONAL ARROWS AS REQUIRED UNLESS OTHERWISE NOTED
	WALL MOUNTED EXIT SIGN, PROVIDE DIRECTIONAL ARROWS AS REQUIRED
	SINGLE POLE MOUNTED, EXTERIOR LUMINAIRE
	BOLLARD LUMINAIRE
	SINGLE POLE SWITCH; 3= THREE WAY SWITCH, 4= FOUR WAY SWITCH, K= KEY SWITCH, D= DIMMER SWITCH, T= MOTOR RATED SWITCH, T= TIMER, HOA=HAND-OFF-AUTOMATIC, T= PILOT LIGHT, OS= OCCUPANCY SENSOR, LVD= LOW VOLTAGE DIMMER (LOWER SWITCH CASE LETTER INDICATES LUMINAIRE(S) CONTROLLED)
	VS
	OS

SECURITY DEVICES

	JUNCTION BOX FOR INSTALLATION OF CARD READER, MOUNTED 48" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING, U.N.O.
	JUNCTION BOX FOR INSTALLATION OF SECURITY CAMERA, MOUNTED 96" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING, U.N.O. REFER TO SECURITY CONSULTANT DRAWINGS FOR FINAL REQUIREMENTS.

STD. MOUNTING HEIGHTS U.N.O.

ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS INDICATED ON ELECTRICAL DRAWINGS.

RECEPTACLES (CENTERLINE)	18"
RECEPTACLES IN EQUIP. RMS.	48"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
ALARMS, SWITCHES AND CONTROLS (CENTERLINE)	48"
SAFETY SWITCHES	48"
PANELS (TOP)	72"
FIRE ALARM PULL STATIONS (HANDLE)	44"
STROBES (CENTERLINE)	80"
FIRE ALARM BELLS (EXTERIOR)	12'-0"
CONTROLS (FIRE ALARM CONTROL PANEL)	48"
ANNUNCIATION PANELS	48"
INTERCOM (AFEA ONLY)	36"
EXIT SIGNS (WALL MOUNTED BTM.)	80"
INTERCOMS	48"
PHOTOCELLS	12'-0"

POWER

	PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, OR LOAD CENTER SURFACE MOUNTED
	PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, OR LOAD CENTER RECESS MOUNTED
	20 AMP, 125V, NEMA 5-20R DUPLEX RECEPTACLE
	20 AMP, 125V, NEMA 5-20R QUAD RECEPTACLE
	20 AMP, 125V, NEMA 5-20R GFCI DUPLEX RECEPTACLE
	20 AMP, 125V, NEMA 5-20R GFCI DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER AND/OR ABOVE BACKSPASH, UNLESS OTHERWISE NOTED
	20 AMP, 125V, NEMA 5-20R DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER AND/OR ABOVE BACKSPASH, UNLESS OTHERWISE NOTED
	20 AMP, 125V, NEMA 5-20R QUAD RECEPTACLE, MOUNTED 6" ABOVE COUNTER AND/OR ABOVE BACKSPASH, UNLESS OTHERWISE NOTED
	20 AMP, 125V, NEMA 5-20R SWITCHED DUPLEX RECEPTACLE
	20 AMP, 125V, NEMA 5-20R DUPLEX FLOOR RECEPTACLE, 3/4" CONDUIT RUN CONCEALED IN FLOOR SLAB
	20 AMP, 125V, NEMA 5-20R CEILING FLOOR RECEPTACLE, 3/4" CONDUIT CONCEALED IN FLOOR SLAB
	20 AMP, 125V, NEMA 5-20R DUPLEX FLOOR RECEPTACLE, 3/4" CONDUIT RUN CONCEALED IN FLOOR SLAB
	20 AMP, 125V, NEMA 5-20R QUAD CEILING RECEPTACLE, 3/4" CONDUIT
	JUNCTION BOX, WALL MOUNTED
	JUNCTION BOX, FLOOR MOUNTED
	JUNCTION BOX, CEILING MOUNTED
	SPECIAL RECEPTACLE, FLOOR MOUNTED, CONFIGURATION AS NOTED ON PLAN
	SPECIAL RECEPTACLE, WALL MOUNTED, CONFIGURATION AS NOTED ON PLAN
	SPECIAL RECEPTACLE, CEILING MOUNTED, CONFIGURATION AS NOTED ON PLAN
	FURNITURE FEED RECEPTACLE, WALL MOUNTED, CONFIGURATION AS NOTED ON PLAN
	MOTOR: HORSEPOWER AS INDICATED ON PLANS OR DIAGRAMS
	PLUGMOLD, REFER TO DRAWING FOR LENGTHS
	SAFETY SWITCH, NON-FUSED, 240V, U.N.O.
	FUSED DISCONNECT
	COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)
	PHOTOCELL
	EMERGENCY POWER OFF (EPO) BUTTON
	ELECTRIC VEHICLE CHARGER, WALL MOUNTED
	ELECTRIC VEHICLE CHARGER

FIRE ALARM

	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR PANEL
	SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC
	COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR, ADDRESSABLE PHOTO ELECTRIC
	HEAT DETECTOR
	DUCT SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC
	FIRE ADA ALARM STROBE MOUNTED AT 90" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
	FIRE ADA ALARM HORN MOUNTED AT 90" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
	FIRE ALARM AUDIBLE AND ADA STROBE LIGHT MOUNTED AT 90" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
	FIRE ALARM MANUAL PULL STATION, ADDRESSABLE DOUBLE ACTION
	MAGNETIC DOOR HOLDER

CONDUIT DESIGNATIONS

XX/XXX	PANEL NAME / CIRCUIT NUMBER - BRANCH CIRCUITS HOMERUN USE NUMBER 12 AWG WIRE, UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL CONTAIN A GROUND AND NEUTRAL CONDUCTOR, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE MULTI-WIRE CIRCUIT HANDLE TIES AS FINAL FIELD INSTALLED WIRING REQUIRES.
	CONDUIT AND WIRE CONCEALED, 3/4" UNLESS OTHERWISE NOTED, CONDUIT USED FOR SWITCH LEGS, AND CONDUIT USED FOR CONTROL WIRING
	CONDUIT AND WIRE EMBEDDED IN CONCRETE OR BELOW GRADE

ELECTRICAL SYMBOLS

NOTE:

THIS IS A MASTER SYMBOLS LIST. ALL SYMBOLS, ABBREVIATIONS, ETC. MAY NOT NECESSARILY BE USED ON ALL DRAWINGS

ONE LINE AND RISER

	PANEL
	CURRENT TRANSFORMER, RATED AS SPECIFIED OR REQUIRED
	MOTOR
	SURGE PROTECTION DEVICE
	GROUND CONNECTION
	SWITCH, RATING AS SHOWN
	FUSE, FUSE AMPACITY AND TYPE AS SHOWN
	CIRCUIT BREAKER, RATING AS SHOWN
	UTILITY METER (AS REQUIRED BY UTILITY)
	DIGITAL METER
	SAFETY SWITCH, NON-FUSED, 240V, U.N.O.
	FUSED DISCONNECT
	COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)
	T-XX TRANSFORMER, TYPE AND RATING AS SHOWN
	CONDUIT CONNECTION
	CIRCUIT BREAKER WITH GROUND FAULT PROTECTION
	FUSE WITH GROUND FAULT PROTECTION
	AUTOMATIC TRANSFER SWITCH
	GROUND CONNECTION WITH TEST WELL
	GROUND ROD

MISCELLANEOUS

	KEY NOTE DESIGNATION
	SHORT CIRCUIT TAG DESIGNATION
	FEEDER TAG DESIGNATION
	REVISION NUMBER DESIGNATION
	NEW TO EXISTING CONNECTION
	EXISTING LINEWORK
	DEMOLITION LINEWORK
	NEW LINEWORK

COMMUNICATIONS

	JUNCTION BOX FOR INSTALLATION OF COMMUNICATION OR DATA OUTLET, MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. PROVIDE (2) RJ-45 JACKS UNLESS NOTED OTHERWISE.
	FLOOR JUNCTION BOX FOR INSTALLATION OF COMMUNICATION OR DATA OUTLET. INSTALL 1" CONDUIT FROM BOX CONCEALED IN FLOOR SLAB TO WALL AND TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. PROVIDE (2) RJ-45 JACKS UNLESS NOTED OTHERWISE.
	JUNCTION BOX FOR INSTALLATION OF TV OUTLET. MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
	CEILING MOUNTED JUNCTION BOX FOR INSTALLATION OF WIRELESS ACCESS POINT. PROVIDE (1) RJ-45 JACKS UNLESS NOTED OTHERWISE.
	EMERGENCY COMMUNICATIONS SYSTEM (ECS) SPEAKER

ELECTRICAL LEGEND

### SHORT CIRCUIT / VOLTAGE DROP ANALYSIS CALCULATIONS

PROJECT NAME:		PROJECT	PROJECT NO:		22 222		BY:		RJA															
INITIAL			CABLE						XFMR			FINAL			SEGMENT VD		CUMM VD							
FROM	ISC	PRI VOLT	TO	LOAD AMPS	USED	FT	SETS OF CONDS	AWG OR MCM	AL OR CU	MAG OR NMAG	C VALUE	CIRC MILS	USED	KVA	IMP	SEC VOLTS	F	M	ISC	VD	% VD (L-N)	VD	% VD (L-N)	
X0	JTIL XFMR - 100KVA	29600	240	WIREWAY	400	X	75	2	3/0	CU	NMAG	27845	335600				0.33218	0.750647	22219	2.3	FALSE	2.3	FALSE	X0
X1	WIREWAY	22219	208	PANEL A	170	X	25	2	3/0	CU	MAG	25688	335600				0.10396	0.905828	20127	0.3	0.1	2.6	1.2	X1
X2	WIREWAY	22219	208	PANEL B	200	X	25	2	3/0	CU	MAG	25688	335600				0.10396	0.905828	20127	0.3	0.2	2.9	1.4	X2

**NOTES:**  
1. FEEDER LENGTHS ARE TO BE IN FEET AND AS SHOWN ON THE DRAWINGS PER FAULT CURRENT REQUIREMENTS OF NEC 110.9 AND 110.10. FEEDER LENGTH SHORTER THAN SPECIFIED WILL NOT BE ACCEPTED.  
CONTRACTOR SHALL NOTIFY ENGINEER OF ANY FIELD CONDITION THAT RESULTS IN A CHANGE OF 10% OR GREATER CIRCUIT DISTANCE.

- ### GENERAL NOTES
- REFER TO ELECTRICAL FLOOR PLANS FOR PANEL LOCATIONS.
  - CONTRACTOR IS RESPONSIBLE FOR SUBMITTING UTILITY APPLICATION TO UTILITY COMPANY.
  - ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
  - INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY OBSERVATIONS AND RECORD DRAWINGS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.
  - ALL NEW DEVICES IN EXISTING GEAR SHALL BE UL LISTED FOR THE EQUIPMENT, BE OF THE SAME MANUFACTURER AND WITHSTAND RATING.
  - ITEMS SHOWN IN THIN DASHED LIGHT LINEWEIGHT ARE EXISTING TO REMAIN. ITEMS SHOWN IN THICK BLACK LINEWEIGHT ARE NEW.
  - CONTRACTOR SHALL CONTACT UTILITY COMPANY TO COORDINATE ELECTRICAL WORK. COORDINATE AND VERIFY EXISTING ELECTRICAL SERVICE AND TRANSFORMER ARE OF ADEQUATE CAPACITY TO ACCOMMODATE NEW WORK. COORDINATE WITH OWNER/GC PRIOR TO BID.

### MECHANICAL EQUIPMENT SCHEDULE

TAG	NUMBER	Equipment Description	PANEL	CIRCUIT	MCA	TOTAL POWER LOAD	MOTOR HP	VOLT	PH	MOTOR RATED SWITCH	DISC SW	AMPS	POLES	FEEDER	COMMENTS
CU	1	CONDENSING UNIT	A	35,37	18 A	4232 VA		240 V	1	No	Yes	30 A	2	2 # 10, 1 # 10 G	
CU	2	CONDENSING UNIT	A	39,41	28 A	6440 VA		240 V	1	No	Yes	60 A	2	2 # 8, 1 # 10 G 2 # 8, 1 # 10 G	
EF	1	EXHAUST FAN	A	16	0 A	17 VA		120 V	1	Yes	No			2 # 12, 1 # 12 G	
EF	2	EXHAUST FAN	A	16	0 A	17 VA		120 V	1	Yes	No			2 # 12, 1 # 12 G	
EUH	1	ELECTRIC UNIT HEATER	A	9,11	0 A	3000 VA		240 V	1	No	Yes	30 A	2	2 # 12, 1 # 12 G	
EUH	2	ELECTRIC UNIT HEATER	A	13,15	0 A	3000 VA		240 V	1	No	Yes	30 A	2	2 # 12, 1 # 12 G	
EUH	3	ELECTRIC UNIT HEATER	A	32,34	0 A	3000 VA		240 V	1	No	Yes	30 A	2	2 # 12, 1 # 12 G	
EWH	1	ELECTRIC WATER HEATER	A	28,30	0 A	6000 VA		240 V	1	No	Yes	60 A	2	2 # 8, 1 # 10 G	
F	2	GAS FURNACE	A	7	14 A	1622 VA		120 V	1	Yes	No			2 # 12, 1 # 12 G	
F	1	GAS FURNACE	A	5	14 A	1622 VA		120 V	1	Yes	No			2 # 12, 1 # 12 G	

**GENERAL NOTES:**  
A. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATIONS.  
B. DIVISION 26 CONTRACTOR TO VERIFY EXACT POWER REQUIREMENTS WITH DIVISION 23 CONTRACTOR PRIOR TO ROUGH-IN.  
**NOTES:**  
1. PROVIDE SINGLE-POLE, FRACTIONAL HORSEPOWER MANUAL STARTER WITH OVERLOAD PROTECTION. SIZE PER NAMEPLATE RATING OF UNIT.  
2. DISCONNECT FURNISHED BY DIVISION 23 CONTRACTOR. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.  
3. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION. PROVIDE SEPARATE 120V CONNECTION TO ANSUL SYSTEM GAS VALVE. COORDINATE INTERCONNECTION WITH MAKE UP AIR UNIT.  
4. UNIT PLUGS INTO NEMA 5-20R RECEPTACLE. PROVIDE RECEPTACLE IN AN ACCESSIBLE LOCATION TO POWER PUMP.  
5. UNIT OBTAINS POWER FROM CORRESPONDING CONDENSING UNIT. EXTEND FEEDING CIRCUIT FROM CONDENSING UNIT TO INDOOR UNIT.  
6. PROVIDE TIMECLOCK FOR EXHAUST FAN. COORDINATE LOCATION AND ON/OFF TIMES WITH OWNER.

- ### KEY NOTES (THIS SHEET)
- PROVIDE THREE PHASE DIGITAL RECORDING CIRCUIT ANALYZER ON INDICATED PANEL FEEDERS FOR A PERIOD OF THIRTY DAYS PRIOR TO THE START OF CONSTRUCTION TO VERIFY EXISTING LOAD. CIRCUIT ANALYZER SHALL RECORD VOLTAGE, AMPERAGE, KVA AND POWER FACTOR FOR EACH PHASE AND AVERAGE FOR ALL PHASES. ANALYZER SHALL ALSO RECORD A PER DAY MAXIMUM DEMAND. THE CONTRACTOR SHALL COMPILE A SUMMARY REPORT LISTING MAXIMUM READINGS AND SUBMIT THE REPORT TO THE ENGINEER FOR THE FIRST SEVEN DAYS OF METERING AND FOR A COMPLETE THIRTY DAYS OF METERING.

### LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	INPUT VA	LAMPS	VOLTAGE	MOUNTING	NOTES
D	LED PENDANT MOUNTED ARCHITECTURAL LUMINAIRE	TMS	GAV-I-15-LED-C36-WC-35K-120--DMIL	17 VA	LED	120 V	PENDANT	
E	LED PENDANT MOUNTED CYLINDER	ALPHABET LIGHTING	BETA-4R-SW-15LM-35K-80-35D-DL*-RP-UN V-DIM10	12 VA	LED	120 V	PENDANT	
L1	LED TAPE LIGHT, ALUMINUM CHANNEL, FROSTED LENS	BEULUX	V-L270-IP00-CT30-X-DTRX-AA02-SL	9 VA	LED	120 V	RECESSED	
L8	LINEAR DIRECT/INDIRECT	FINELITE	HP4-P-ID-8'-S-B-835-F-F-96LG-120/277V-SC-FC-10%-FA50-CX-FE-SW	65 VA	LED	120 V	PENDANT	
R2	2X2 RECESSED INDIRECT LED TROFFER	LITECONTROL	55L-G-D-22-AHE-WHS-35K-D30-D01-UNV	24 VA	LED	120 V	RECESSED	
R4	2X4 RECESSED INDIRECT LED TROFFER	LITECONTROL	55L-G-D-24-AHE-WHS-35K-D45-D01-UNV	38 VA	LED	120 V	RECESSED	
S4	4' LED STRIP WITH LENS	COLUMBIA	MPS-4-35-LW-CW-EU	42 VA	LED	120 V	SURFACE	
W1E	LED WALL PACK FIXTURE	DUAL-LITE	PG-Z-HTR	15 VA	LED	120 V	WALL MOUNTED	
W2	DECORATIVE GOOSE NECK WALL SCONCE	PRESCOLITE	2W-O-19LED-30K-120-WM-F15-DIML-G2	19 VA	led	120 V	WALL MOUNTED	
X1	THERMOPLASTIC COMBO EXIT/EM	DUAL-LITE	EVC-U-G-W-I	5 VA	LED	120 V	WALL MOUNTED	
X2	EMERGENCY LIGHTING UNIT	DUAL-LITE	LZ-2-03L	6 VA	LED	120 V	WALL MOUNTED	

**ABBREVIATIONS:** BF - BOTTOM OF FIXTURE; OH - OVERALL FIXTURE HEIGHT; RD - RECESSED FIXTURE DEPTH; AFF - ABOVE FINISHED FLOOR

**GENERAL NOTES:**  
A. LUMINAIRE SHOWN WITH CATALOG NUMBERS ARE THE BASIS OF DESIGN. SIMILAR BY OTHER LISTED MANUFACTURERS ARE ACCEPTABLE WITH PRIOR APPROVAL BY OWNER AND ENGINEER.  
B. CONTRACTOR TO VERIFY LIGHT FIXTURE CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.  
C. VERIFY TRIM COMPATIBILITY WITH CEILING TYPE PRIOR TO SUBMITTALS.

**SCHEDULED NOTES:**  
1. PROVIDE WITH 90 MINUTE BATTERY BACKUP, INTEGRAL SELF DIAGNOSTICS, ARROWS AS SHOWN ON PLANS AND MOUNTING TYPE AS SHOWN ON PLAN.  
2. ELECTRICIAN TO PROVIDE COMPONENTS FOR COMPLETE TAPELIGHT SYSTEM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

### (E) Branch Panel: A

Location: See Plans  
Supply From: MOUNTING: Recessed  
Enclosure: Type 1

Volts: 120/240 Single  
Phases: 1  
Wires: 3

A.I.C. Rating: 10,000  
Mains Type: MLO  
Bus Rating: 400 A

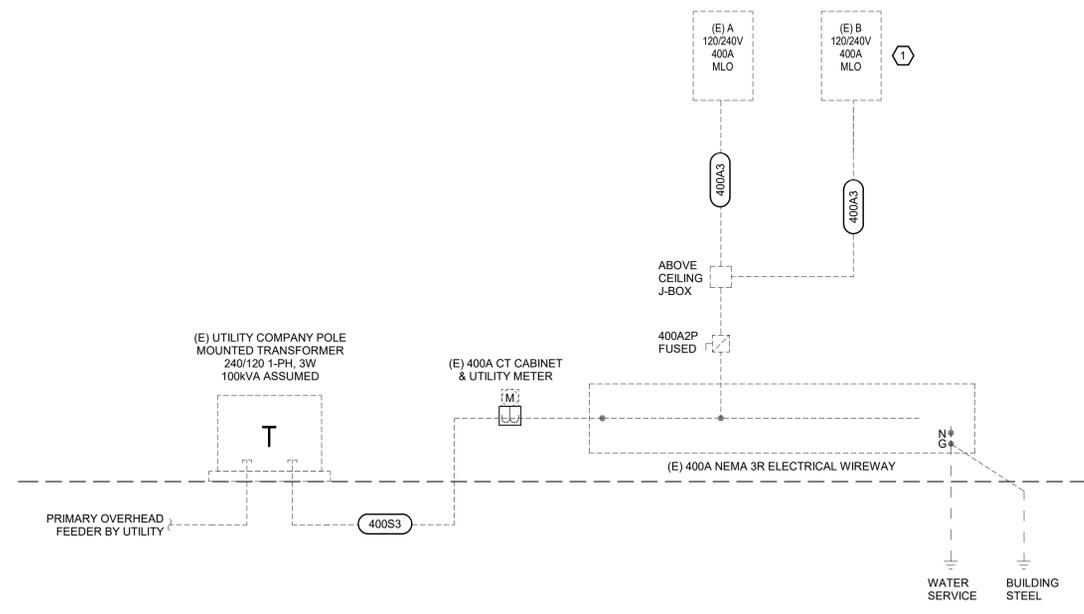
CKT	Circuit Description	OPT	Load Class	Trip	Poles	A (VA)	B (VA)	Poles	Trip	Load Class	OPT	Circuit Description	CKT
1	SPARE			100 A	2	0	1620	1	20 A	R		REC - SW. SIDE	2
3				20 A	1			1	20 A	R		REC - NW. SIDE	4
5	F-1		E	20 A	1	1622	720	1	20 A	R		REC - N. SIDE	6
7	F-2		E	20 A	1			1	20 A			METALS SHOP HEATERS	8
9	EUH-1		E	20 A	2	1500	720	1	20 A	A	GFCI	REC - REF	10
11				20 A	1			1	20 A	A		REC - MICROWAVE	12
13	EUH-2		E	20 A	2	1500	386	1	20 A	L		LTS - WEST SIDE	14
15				20 A	1			1	20 A	R; E		REC - RR, EF-1 & EF-2	16
17	REC - METAL SHOP #1			20 A	1	1920	997	1	20 A	L		LTS - EAST SIDE	18
19	REC - METAL SHOP #2			20 A	1			1	20 A	R		REC - SUPERINTENDENT OFFICE	20
21	GARBAGE/DISPOSAL		GFCI	A	20 A	756	180	1	20 A	R		REC - SUPERINTENDENT OFFICE	22
23	LTS - EXTERIOR LIGHTS		L	20 A	1			1	20 A	R		REC - SUPERINTENDENT OFFICE	24
25	REC - OFFICE 1		R	20 A	1	540	100	1	20 A	E		MOTORIZED DAMPER	26
27	REC - OFFICE 2		R	20 A	1			1	20 A	E			28
29	WATER FOUNTAIN		GFCI	R	20 A	500	3000	2	60 A	E		EUH-1	30
31	LTS - WOOD SHOP #1			20 A	1			2	20 A	E			32
33	LTS - WOOD SHOP #2			20 A	1	0	1500						34
35	CU-1		E	30 A	2			1	20 A	--		LTS - METAL SHOP #1	36
37				20 A	1	2116	512	1	20 A	--		LTS - METAL SHOP #2	38
39	CU-2		E	40 A	2			1	20 A	--		SPARE	40
41				20 A	1	3220	0	1	20 A	--		SPARE	42

**Total Load:** 23408 VA, 23932 VA  
**Total Amps:** 195 A, 199 A  
**Phase Balance:** 98 % A-B, 0 % B-C

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
L Lighting	1432 VA	125.00%	1790 VA	
C Continuous				Total Conn. Load: 47340 VA
R Receptacle	6440 VA	100.00%	6440 VA	Total Est. Demand: 47430 VA
M Motor				Total Conn.: 197 A
LM Largest Motor				Total Est. Demand: 198 A
E Equipment	29049 VA	100.00%	29049 VA	Spare Capacity: 202 A
A Appliance	2676 VA	90.00%	2408 VA	

**OPTIONS:**  
'ST' - PROVIDE SHUNT TRIP BREAKER / 'GFCI' - PROVIDE CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING / 'NEW' PROVIDE CIRCUIT...

**Notes:**  
1. LIGHT LINEWEIGHT INDICATES EXISTING BREAKER/CIRCUITING. BOLD LINEWEIGHT INDICATES NEW BREAKERS/CIRCUITING. PROVIDE NEW CIRCUIT BREAKERS WHERE INDICATED, AIC RATING AND MANUFACTURER TO MATCH EXISTING.



**1 ELECTRICAL ONE LINE/RISER DIAGRAM**  
SCALE: NO SCALE

### COPPER FEEDER SCHEDULE

MARK	CONDUCTOR AND CONDUIT
400A3	2 SETS OF 3 #3/0, 1 #3 GND-2" C
400S3	2 SETS OF 3 #3/0 - 1 1/2" C

**GENERAL NOTES:**  
1. IF EXACT SERVICE SIZE IS NOT LISTED, USE NEXT AMPERAGE SIZE UP.  
2. NEC REFERENCES ARE FROM NEC 2023.  
3. BONDS SHALL BE MECHANICAL TYPE. INTERIOR BONDS MAY BE EXOTHERMIC.  
4. BOND SIZE SHALL MATCH CONDUCTORS SHOWN ON FEEDER SCHEDULE.  
5. GROUND CONDUCTORS SHALL BE STRANDED COPPER INSULATED CABLE, UON.  
6. IF SINGLE ROD, PIPE, OR PLATE ELECTRODE RESISTANCE IS OVER 25 OHMS, PROVIDE SUPPLEMENTAL ELECTRODE PER NEC 250.53 A.  
7. PROVIDE GROUNDING ELECTRODE CONNECTIONS IN ACCORDANCE WITH NEC 250.64(D).

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#### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION



**MOFFAT  
ADMINISTRATION  
BUILDING RENOVATION**

PROJECT: 24031      DATE: 08/05/2024  
PROJECT STATUS: CONSTRUCTION  
DOCUMENTS

**ELECTRICAL  
ONE-LINE DIAGRAMS**



COMcheck Software Version COMcheckWeb  
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC  
Project Title: 2024-069 Moffat Schools Remodel  
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts
1-Office	2500	0.79	1975
Total Allowed Watts =			1975

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture	D Watt. (C X D)	E (C X D)
<b>Office (2500 sq.ft.)</b>				
LED: D: LED PENDANT MOUNTED ARCHITECTU: LED Other Fixture Unit 16W:	1	1	17	17
LED: E: LED PENDANT MOUNTED CYLINDER: LED Other Fixture Unit 13W:	1	2	12	24
LED: L1: LED TAPE LIGHT, ALUMINUM CHANNE: LED Undercabinet Unit 9W:	1	1	9	9
LED: L8: LINEAR DIRECT/INDIRECT: LED Other Fixture Unit 60W:	2	11	65	715
LED: R2: 2X2 RECESSED INDIRECT LED TROFF: LED Other Fixture Unit 25W:	1	14	24	336
LED: R4: 2X4 RECESSED INDIRECT LED TROFF: LED Other Fixture Unit 40W:	2	4	38	152
LED: S4: 4' LED STRIP WITH LENS: LED Other Fixture Unit 40W:	4	1	42	42
Total Proposed Watts =			1295	

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name: Darin Ramirez Title: Signature Date: 08/02/2024

Project Title: 2024-069 Moffat Schools Remodel Report date: 07/09/24  
Data filename: Page 1 of 5



COMcheck Software Version COMcheckWeb  
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software  
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

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

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
Project Title: 2024-069 Moffat Schools Remodel Report date: 07/09/24  
Data filename: Page 2 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3 [EL22]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.1 for applicable spaces, C405.2.3.2 for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zones.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL26]	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL27]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6]	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.6 [EL26]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.7 [EL27]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2 [EL28]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
Project Title: 2024-069 Moffat Schools Remodel Report date: 07/09/24  
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 [EL22]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL18]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL19]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL20]	Occupant sensor control function in open office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2 [EL21]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
Project Title: 2024-069 Moffat Schools Remodel Report date: 07/09/24  
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5 [F117]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F118]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [F157]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [F116]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F133]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
Project Title: 2024-069 Moffat Schools Remodel Report date: 07/09/24  
Data filename: Page 5 of 5



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REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION
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MOFFAT  
ADMINISTRATION  
BUILDING RENOVATION

PROJECT: 24031 DATE: 08/05/2024  
PROJECT STATUS: CONSTRUCTION DOCUMENTS

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ELECTRICAL  
COMCHECK

E003

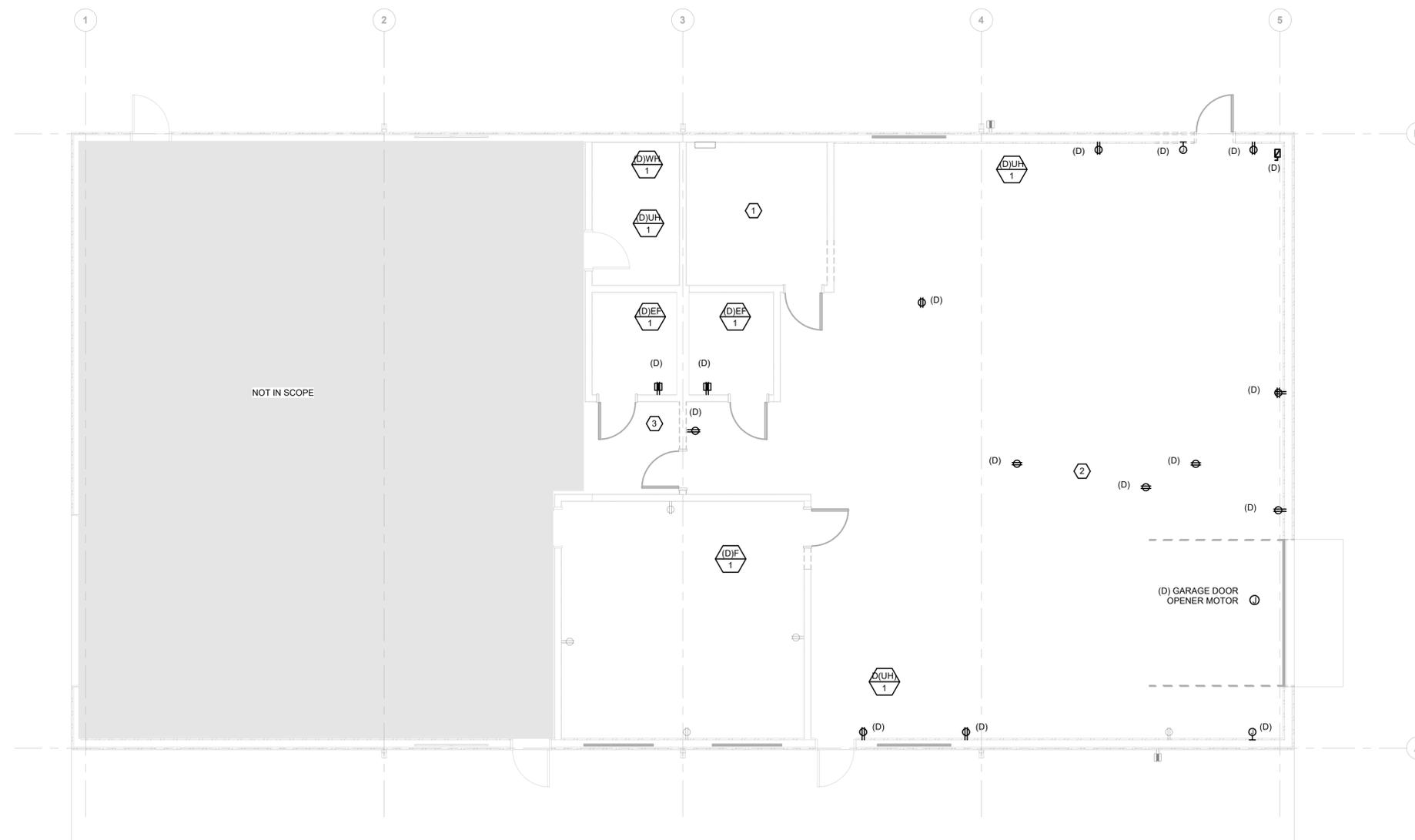
### GENERAL NOTES

1. INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY OBSERVATIONS AND RECORD DRAWINGS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.
2. COORDINATE SEQUENCE OF DEMOLITION WITH OWNER AND ARCHITECT PRIOR TO BEGINNING WORK.
3. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT AND INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH NEW WORK.
4. REMOVE AND OFFER TO OWNER ALL LIGHTING AND LIGHTING CONTROLS FROM AREAS WHERE CEILINGS ARE BEING DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM WHICH CEILINGS ARE BEING DEMOLISHED. ALL FIXTURES REFUSED BY OWNER SHALL BE PROPERLY DISPOSED.
5. REMOVE AND OFFER TO OWNER ALL ELECTRICAL DEVICES FROM WALLS THAT ARE TO BE DEMOLISHED. REMOVE BRANCH CIRCUITING INCLUDING BACK BOXES, CONDUCTOR AND CONDUIT FROM DEVICE LOCATION TO PANELBOARD. ALL DEVICES REFUSED BY OWNER SHALL BE PROPERLY DISPOSED.
6. DEVICES SHOWN IN THIN LINEWEIGHT AND/OR LABELED WITH AN (E) ARE EXISTING TO REMAIN. DEVICES SHOWN IN THICK BOLD LINEWEIGHT AND/OR LABELED WITH A (D) ARE TO BE DEMOLISHED. DEVICES SHOWN IN THICK BOLD LINEWEIGHT AND LABELED WITH AN (RL) ARE TO BE RELOCATED. SEE NEW FLOORPLANS FOR LOCATIONS.

### KEY NOTES

(THIS SHEET)

1. PROVIDE THREE PHASE DIGITAL RECORDING CIRCUIT ANALYZER ON INDICATED PANEL FEEDERS FOR A PERIOD OF THIRTY DAYS PRIOR TO THE START OF CONSTRUCTION TO VERIFY EXISTING LOAD. CIRCUIT ANALYZER SHALL RECORD VOLTAGE, AMPERAGE, KVA AND POWER FACTOR FOR EACH PHASE AND AVERAGE FOR ALL PHASES. ANALYZER SHALL ALSO RECORD A PER DAY MAXIMUM DEMAND. THE CONTRACTOR SHALL COMPILE A SUMMARY REPORT LISTING MAXIMUM READINGS AND SUBMIT THE REPORT TO THE ENGINEER FOR THE FIRST SEVEN DAYS OF METERING AND FOR A COMPLETE THIRTY DAYS OF METERING.



**1 DEMO POWER PLAN**  
 SCALE: 3/16" = 1'-0"

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION



### MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 08/05/2024  
 PROJECT STATUS: CONSTRUCTION DOCUMENTS  
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### ELECTRICAL DEMOLITION POWER PLAN

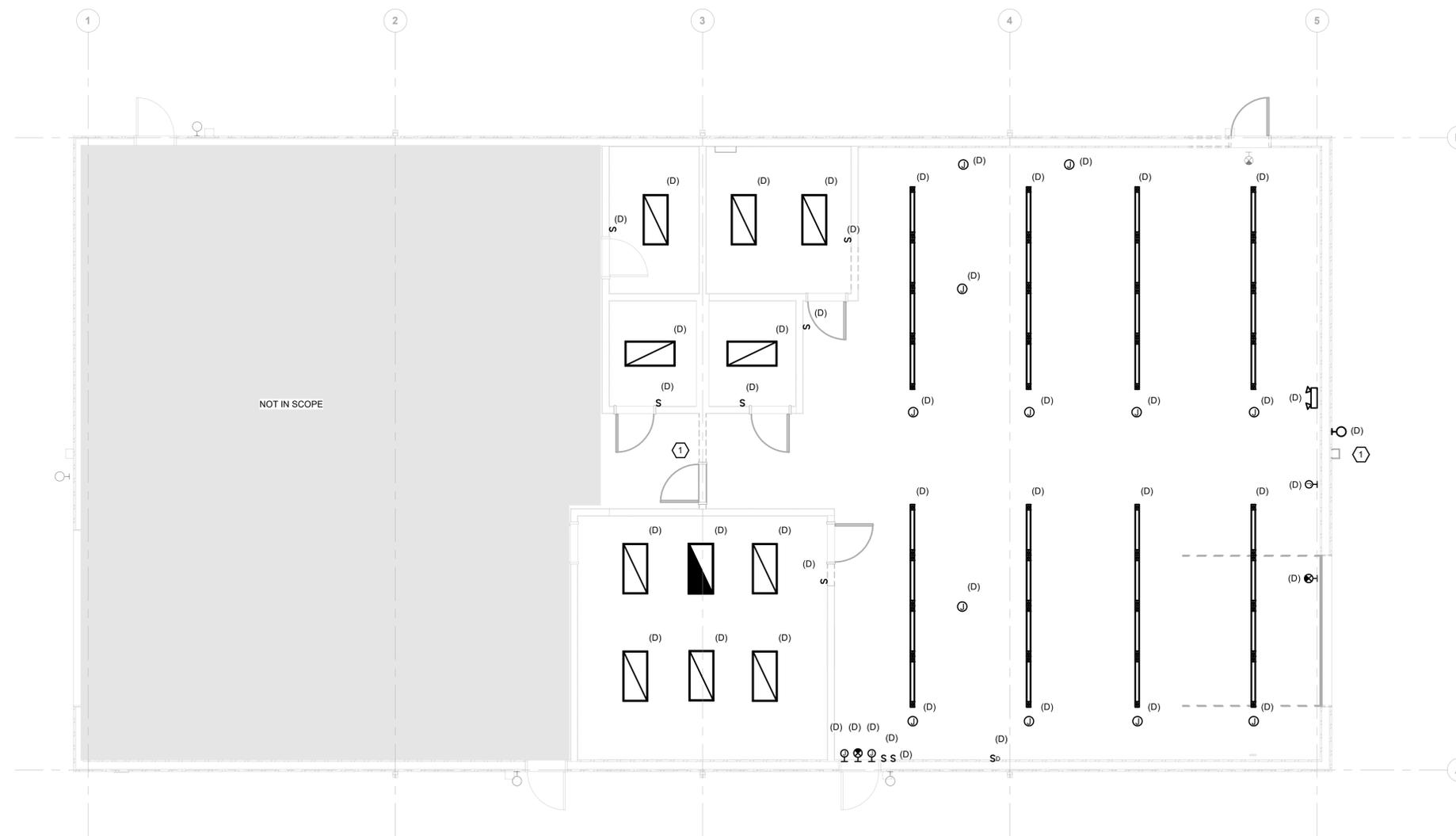
### GENERAL NOTES

1. INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY OBSERVATIONS AND RECORD DRAWINGS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.
2. COORDINATE SEQUENCE OF DEMOLITION WITH OWNER AND ARCHITECT PRIOR TO BEGINNING WORK.
3. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT AND INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH NEW WORK.
4. REMOVE AND OFFER TO OWNER ALL LIGHTING AND LIGHTING CONTROLS FROM AREAS WHERE CEILINGS ARE BEING DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM WHICH CEILINGS ARE BEING DEMOLISHED. ALL FIXTURES REFUSED BY OWNER SHALL BE PROPERLY DISPOSED.
5. REMOVE AND OFFER TO OWNER ALL ELECTRICAL DEVICES FROM WALLS THAT ARE TO BE DEMOLISHED. REMOVE BRANCH CIRCUITING INCLUDING BACK BOXES, CONDUCTOR AND CONDUIT FROM DEVICE LOCATION TO PANELBOARD. ALL DEVICES REFUSED BY OWNER SHALL BE PROPERLY DISPOSED.
6. DEVICES SHOWN IN THIN LINEWEIGHT AND/OR LABELED WITH AN (E) ARE EXISTING TO REMAIN. DEVICES SHOWN IN THICK BOLD DASHED LINEWEIGHT AND/OR LABELED WITH A (D) ARE TO BE DEMOLISHED. DEVICES SHOWN IN THICK BOLD LINEWEIGHT AND LABELED WITH AN (RL) ARE TO BE RELOCATED. SEE NEW FLOORPLANS FOR LOCATIONS.

### KEY NOTES

(THIS SHEET)

1. REFER TO ARCHITECT DRAWINGS FOR DEMOLISHED WALLS.



**1 DEMO CEILING PLAN**  
 SCALE: 3/16" = 1'-0"

### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION



### MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 08/05/2024  
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### ELECTRICAL DEMOLITION LIGHTING PLAN

NORTH



## ED102

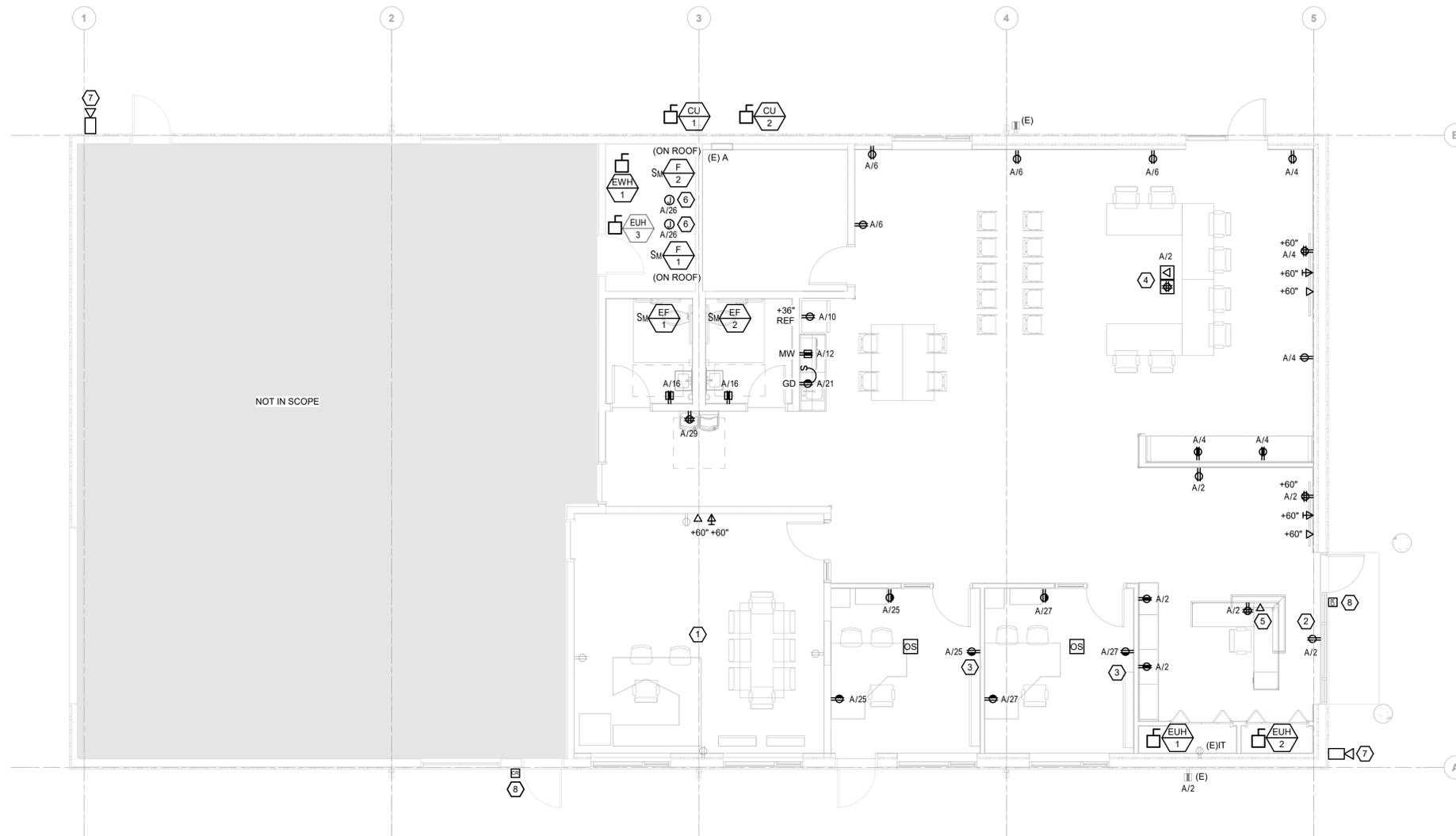
### GENERAL NOTES

- SEE SHEET E0.0 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
- INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY INFORMATION AND RECORD DRAWINGS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT AND INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH NEW WORK.

### KEY NOTES

(THIS SHEET)

- EXISTING ELECTRICAL DEVICES WITHIN THIS AREA ARE EXISTING TO REMAIN. DEVICES ON WALLS THAT ARE TO BE DEMOLISHED SHALL BE REMOVED. DEMO CONDUIT, BACK BOXES AND CONDUCTORS BACK TO NEAREST DEVICE ON CIRCUIT. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.
- CEILING MOUNTED DISPLAY WINDOW RECEPTACLE PER NEC 210.52
- PROVIDE AUTOMATIC RECEPTACLE CONTROL FOR A MINIMUM OF 50% OF RECEPTACLES IN THIS ROOM. AUTOMATIC RECEPTACLES SHALL BE SPLIT CONTROLLED. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL WITH AUTO-OFF 20 MINUTES AFTER OCCUPANTS HAVE LEFT THE SPACE. LABEL CONTROLLED RECEPTACLES PER NEC 406.3(E). CEILING MOUNT SENSOR SHALL ALSO CONTROL LIGHTING IN AREA.
- PROVIDE IN-SLAB RECESSED FLOORBOX WITH (1) DUPLEX RECEPTACLE AND (1) DATA OUTLET, LEGRAND RPSFB-OG WITH RPAV3CTCBK COVER, OR APPROVED EQUAL. FINISH SELECTION BY ARCHITECT. PROVIDE 1-1/4" CONDUIT FROM DATA OUTLET IN FLOORBOX TO TV COAX/DATA OUTLET. FIELD COORDINATE TRENCHING AND PATCHING WITH GENERAL CONTRACTOR. COORDINATE EXACT FLOORBOX LOCATION WITH OWNER AND ARCHITECT. ALTERNATE #1 PROVIDE UNDERCARPET WIREWAY CONNECTRAC CT.XP-1-06-25.1c OR APPROVED EQUAL.
- MOUNT DEVICE(S) WITHIN CASEWORK. COORDINATE FINAL LOCATION WITH CASEWORK MANUFACTURER/CASEWORKER PRIOR TO ROUGH-IN. SAWCUT EXISTING CONCRETE FLOOR TO NEAREST FULL HEIGHT WALL AND RUN CONDUIT IN CASEWORK AS NECESSARY.
- PROVIDE 120V CONNECTION TO MOTORIZED DAMPER AT THIS LOCATION. REFER TO MECHANICAL AND MANUFACTURER'S DOCUMENTATION FOR EXACT LOCATION AND CONNECTION REQUIREMENTS.
- FUTURE CAMERA LOCATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO BID.
- CARD READER LOCATION. COORDINATE ROUGH-IN REQUIREMENTS WITH OWNER AND DOOR HARDWARE SPECIFICATIONS.



**1 POWER PLAN**  
 SCALE: 3/16" = 1'-0"

### REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION



### MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031 DATE: 08/05/2024  
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### LEVEL 1 POWER PLAN

NORTH



# E101

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION



### MOFFAT ADMINISTRATION BUILDING RENOVATION

PROJECT: 24031      DATE: 08/05/2024  
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### ELECTRICAL LIGHTING PLAN



# E201

### GENERAL NOTES

- SEE SHEET E0.0 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
- CONFIRM MOUNTING HEIGHT AND LOCATION OF ALL LUMINAIRES AND DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS.
- CONNECT ALL EXIT SIGNS AHEAD OF LOCAL SWITCHING.
- ALL CEILING MOUNTED OCCUPANCY SENSORS AND VACANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE.
- COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC. TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
- FIELD COORDINATE EXACT LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AND VACANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. THE LOCATIONS OF THE SENSORS ON DRAWINGS ARE DIAGRAMMATIC. DO NOT LOCATE OCCUPANCY SENSORS WITHIN THREE FEET OF AN HVAC SUPPLY DEVICE. IF ADDITIONAL SENSORS ARE NEEDED FOR COMPLETE COVERAGE OF SPACE THEY SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AS REQUIRED TO PROVIDE COMPLETE SPACE COVERAGE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SWITCH PACKS FOR OCCUPANCY SENSORS TO PROVIDE FUNCTION INDICATED.
- ALL EXIT SIGNS SHALL BE CIRCUITED TO LIGHTING CIRCUIT SERVING OTHER LUMINAIRES IN THE SAME SPACE AS THE EXIT SIGNS.
- LOSS OF UTILITY POWER SHALL ENERGIZE ALL EGRESS LIGHTING. THE DESIGN SHALL MEET ALL UL STANDARDS FOR LIFE SAFETY REQUIREMENTS.
- VACANCY/OCCUPANCY SENSORS SHALL BE SET AT A MAXIMUM 15 MINUTE TIMEOUT.
- CONTRACTOR SHALL VERIFY DIMMER SWITCHES ORDERED ARE COMPATIBLE WITH THE LUMINAIRES THEY CONTROL.

### KEY NOTES

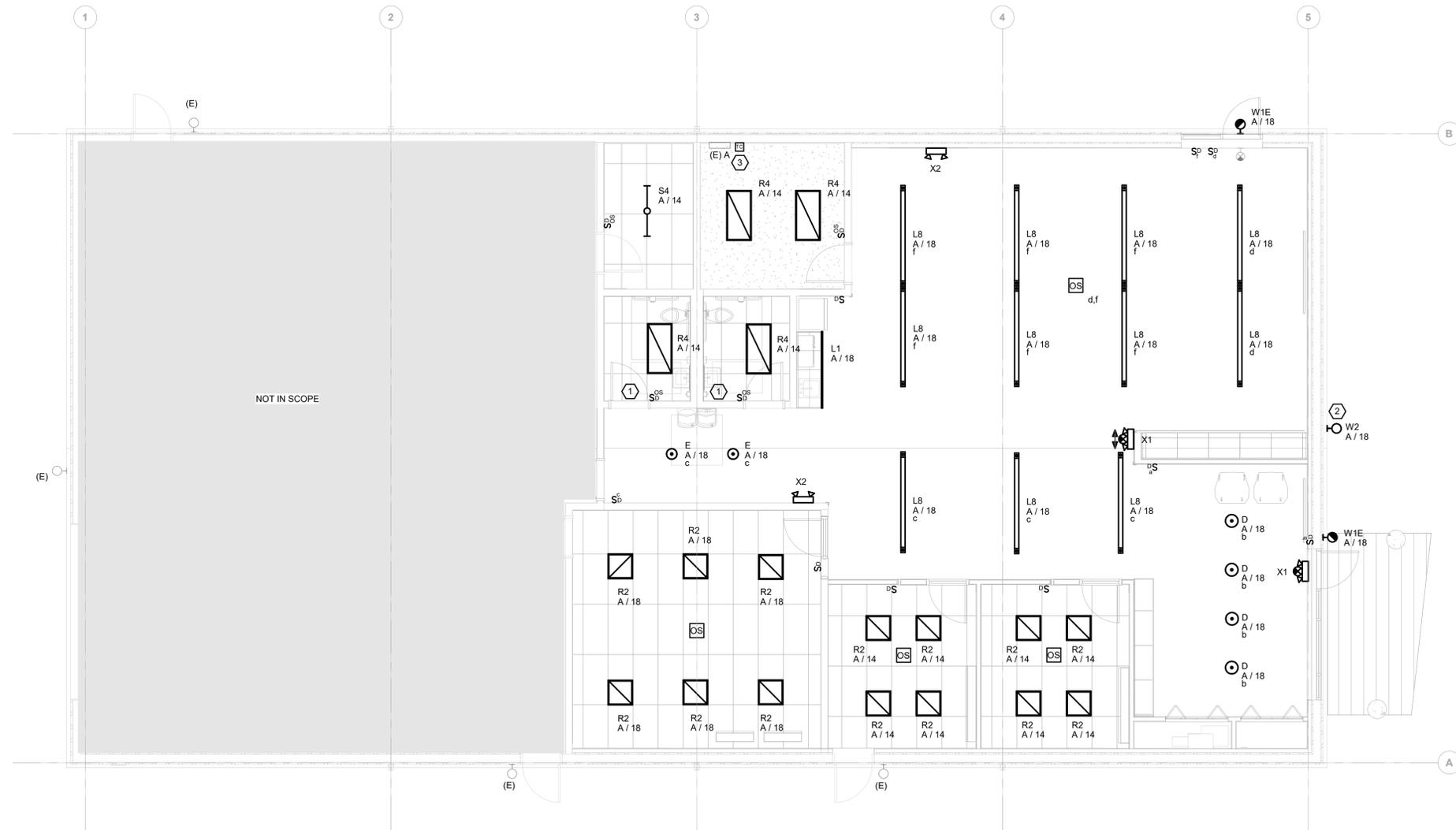
(THIS SHEET)

- LIGHT SWITCH SHALL ALSO CONTROL EXHAUST FAN WITHIN ROOM.
- COORDINATE EXACT LOCATION OF REPLACEMENT LUMINAIRE WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE INTERMATIC MODEL ET2825C TIME CLOCK OR APPROVED EQUAL FOR CONTROL OF EXTERIOR AND INTERIOR LUMINAIRES NOT CONTROLLED VIA OCCUPANCY SENSOR. FOR EXTERIOR LIGHTING, PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING. EXTERIOR LUMINAIRES SHALL BE PHOTOCELL ON TIMECLOCK OFF IN THE EVENING AND TIMECLOCK ON PHOTOCELL OFF IN THE MORNING. COORDINATE ON/OFF TIMES WITH OWNER. SEE FLOORPLANS FOR MANUAL OVERRIDE SWITCHES DURING NIGHTTIME OPERATION.

### LIGHTING CONTROLS NOTES

(ALL SHEETS)

- ALL LIGHTING CONTROLS TO COMPLY WITH IECC 2018 AND LOCAL CODES.
- BASIS OF DESIGN IS WATT STOPPER.
- MANUFACTURER TO PROVIDE SHOP DRAWINGS INDICATING ALL LIGHTING DEVICES, ZONING, ETC. FOR REVIEW BY ENGINEER AND OWNER.
- OCCUPANCY SENSOR CONTROL SHALL BE PROVIDED IN ALL CONFERENCE/MEETING ROOMS, COPY/PRINT ROOMS, LOUNGES/BREAKROOMS, ENCLOSED OFFICES, OPEN OFFICES, RESTROOMS, STORAGE ROOMS, AND ANY ENCLOSED SPACES 300SF OR LESS.
- ALL DAYLIGHT ZONES WITH GREATER THAN 150W OF LIGHTING TO HAVE AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS (PHOTOCELL). PROVIDE SECONDARY DAYLIGHT ZONE WHERE INDICATED.
- ALL REGULARLY OCCUPIED SPACES TO HAVE DIMMING CONTROL, 0-10V PROTOCOL, UON.
- PROVIDE TIMECLOCK SYSTEM TO CONTROL INTERIOR LIGHTING IN CORRIDORS, LOBBIES, AND EXTERIOR LIGHTING.
- LIGHTING IN CORRIDORS, LOBBIES, AND PUBLIC SPACES TO BE CONTROLLED VIA TIMECLOCK WITH LOW-VOLTAGE SWITCHES FOR MANUAL 2-HOUR OVERRIDE AND DIMMING CAPABILITY. PROGRAM TO AUTOMATIC ON/OFF CORRESPONDING TO OFFICE HOURS.
- LIGHTING IN OPEN OFFICES TO BE CONTROLLED VIA OCCUPANCY SENSORS, MANUAL-ON. GENERAL LIGHTING TO TURN OFF 20-MINUTES AFTER OCCUPANTS HAVE LEFT THE SPACE. PROVIDE MULTIPLE ZONES WHERE INDICATED, 600SF MAXIMUM. PROVIDE LOW-VOLTAGE SWITCHES FOR EACH OPEN OFFICE AREA, ONE SWITCH PER ZONE, WITH DIMMING OVERRIDE CAPABILITY.
- LIGHTING IN PRIVATE OFFICES, SMALL CONFERENCE ROOMS, AND ANY SMALLER, REGULARLY OCCUPIED ROOMS SHALL BE CONTROLLED VIA WALL-SWITCH OCCUPANCY SENSOR WITH DIMMING CAPABILITY. PROGRAM TO MANUAL-ON, 15-MINUTE AUTO-OFF.
- LIGHTING IN STORAGE ROOMS, FILE ROOMS, AND ANY NON-REGULARLY OCCUPIED SPACES SHALL BE CONTROLLED VIA DUAL-TECHNOLOGY WALL-SWITCH OCCUPANCY SENSOR. PROGRAM TO MANUAL-ON, 5-MINUTE AUTO-OFF.
- LIGHTING IN RESTROOMS SHALL BE CONTROLLED VIA PIR WALL SWITCH OCCUPANCY SENSOR SWITCH. PROGRAM TO MANUAL-ON, 20-MINUTE AUTO-OFF. PROVIDE MINIMAL UNSWITCHED NIGHTLIGHTS AS INDICATED.
- MEDIUM/LARGE CONFERENCE ROOMS TO BE CONTROLLED VIA DUAL-TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR, ZONING AS INDICATED, WITH LOW-VOLTAGE SWITCHES FOR DIMMING AND MANUAL-ON/OFF CONTROL.



**1 CEILING PLAN**  
 SCALE: 3/16" = 1'-0"