

An architectural rendering of a modern, single-story building. The structure features a flat roof and a facade composed of large, light-colored panels. On the left, a section of the building is constructed from brick, housing a large, dark, recessed entrance. To the right of this brick section is a dark, vertical panel with a small, square window. Further right, a large glass door with a grid pattern is visible, flanked by two small, square windows. The building is set against a plain, light gray background, and a dark, rectangular shadow is cast on the ground to the left of the main structure.

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500 SW Longview Road
Lee's Summit, MO 64081 Project No: 20008.00

PERMIT/BID DOCUMENTS

Issued: September 23, 2021

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COVER SHEET

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MCC Longview HT Addition/Renovation

500 SW Longview Road
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Jeremy B Kahm - Architect
MO# A-2010035449

License Name: Berkebile Nelson Immenschuh McDowell Incorporated
 Profession Name: Architectural Corp.
 Licensee Number: 000377

SHEET INDEX, PROJECT INFORMATION & GENERAL NOTES

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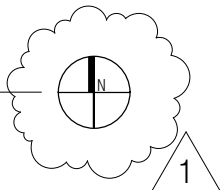
GENERAL NOTES

1. THESE GENERAL NOTES APPLY TO ALL TRADES. THESE NOTES ARE PROVIDED FOR GENERAL PROJECT INFORMATION AND ARE TO BE APPLIED TO ALL AREAS OF THE PROJECT WHERE WORK IS BEING UNDERTAKEN.
2. ALL WORK SHALL COMPLY WITH APPLICABLE LAWS, CODES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION IN FORCE AT TIME OF CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE MOST RESTRICTIVE SHALL APPLY.
3. UPON EXAMINATION/FAMILIARIZATION WITH THE CONTRACT DOCUMENTS AND JOB SITE VISIT, ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES AND/OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR CORRECTION PRIOR TO SUBMISSION OF BID OR EXECUTION OF CONSTRUCTION CONTRACT.
4. THE CONTRACTOR SHALL ADHERE TO THE CONTRACT DOCUMENTS. NO MODIFICATIONS, REVISIONS OR CHANGES SHALL BE UNDERTAKEN UNLESS SPECIFICALLY INSTRUCTED - AND APPROVED.
5. ALL WORK LISTED SHOWN OR REFERRED TO IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR EXCEPT WHERE NOTED OTHERWISE. THE CONTRACTORS SHALL CLOSELY COORDINATE THEIR WORK WITH THE WORK OF OTHER CONTRACTORS AND VENDORS TO ASSURE THAT ALL WORK IS PERFORMED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
6. COORDINATE THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS. EACH CONTRACTOR AND/OR SUBCONTRACTOR SHALL BE PROVIDED WITH A FULL SET OF CONSTRUCTION DOCUMENTS TO ENSURE COORDINATION OF ALL TRADES/DISCIPLINES. CONFLICTS SHALL BE REPORTED TO THE OWNER AND ARCHITECT PRIOR TO THE EXECUTION OF THE WORK.
7. ALL CONTRACTORS, SUBCONTRACTORS AND THEIR AGENTS SHALL HOLD ALL APPLICABLE AND REQUIRED LICENSES FOR THE DISCIPLINE IN WHICH THE WORK IS TO BE PERFORMED.
8. DO NOT SCALE DRAWINGS. CALCULATE AND MEASURE REQUIRED DIMENSIONS. ALL DIMENSIONS ARE TO BE TAKEN FROM DESIGNATED DATUM POINT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION.
9. VERIFY DIMENSIONS IN FIELD. NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND DRAWINGS AND PRIOR TO COMMENCING WITH WORK IN QUESTION.
10. UNLESS NOTED OTHERWISE, PLAN DIMENSIONS ARE AS FOLLOWS: EXTERIOR DIMENSIONS TO FACE OF BRICK VENEER, BRICK VENEER ALONG CORNER, 4-IN-PLATE DIMENSIONS TO FACE OF COLUMNS, CABINETS AND CONCRETE MASONRY UNIT OPENING OR COLUMN CENTERLINE, STOREFRONT AND CURTAINWALL DIMENSIONS TO FACE OF ROUGH OPENINGS INCLUDING PERIMETER JUNT. INTERIOR DIMENSIONS TO FACE OF FINISH WALL, FURRED OR NOT.
11. INSTALL DOORS NOT LOCATED BY DIMENSION SUCH THAT EDGE OF DOOR FRAME TO FACE OF ADJACENT WALL IS 0-4". SEE ->A010- FOR DETAILS.
12. PRIOR TO PROCEEDING WITH WORK, COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND ROUGH-INS THROUGH SLABS, WALLS, CEILINGS, AND ROOFS FOR DUCTS, CONDENSATES, CABINETS AND EQUIPMENT.
13. VERIFY EXISTING UTILITY LOCATIONS USING STATE ONE CALL SYSTEM BEFORE CONSTRUCTION STARTS. COORDINATE NEW UTILITY LOCATIONS, CONNECTIONS, PENETRATIONS, AND SERVICE ENTRANCES WITH FINDINGS.
14. PROVIDE ACCESS DOORS FOR CONCEALED VALVES, DAMPER CONTROLS, FIRE DAMPER LUNGALE, AND ELECTRICAL JUNCTION BOXES.
15. COORDINATE MEP, AVIT, SECURITY, AND LIFE SAFETY DEVICE/FIXTURE LOCATIONS TO AVOID CONFLICTS WITH CASEWORK, DOORS, AND OTHER TRADES.
16. PROVIDE CONSTRUCTION AND CONTROL JOINTS IN CONCRETE SLABS ON GRADE AND TOPPING SLABS PER ACI 224.3R-95 AND AS SHOWN OR DETAILED ON STRUCTURAL DRAWINGS.
17. SEAL PENETRATIONS OF NEW OR EXISTING FIRE-RATED FLOORS AND CEILINGS WITH FIRE-RESISTIVE SYSTEMS (078413) AND (078446) TO MATCH RATING OF ADJACENT CONSTRUCTION UNLESS NOTED OTHERWISE.
18. INSTALL JUNT SEALANT (079200) AT EXTERIOR SIDE OF JOINTS, SEAMS, CONNECTIONS, OR OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION UNLESS NOTED OTHERWISE.
19. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL HANDLES THROUGH INTERIOR GYPSUM BOARD JOINTS OF EXTERIOR WALLS WITH LATEX JUNT SEALANT (079200).
20. PROVIDE COMBINED BIDDING FOR ALL MAINTAINED ITEMS (EQUIPMENT, BOXES, MILLWORK, ACCESSORIES, ETC.). BLOCKING OR NOTING OF A NOT WHOLLY SHOWN ITEM OR MAINTAINED WHERE CONSTRUCTION IS OF A NONCOMBUSTIBLE TYPE PROVIDE SHEET METAL OR FIRE RETARDANT TREATED (FRT) WOOD.



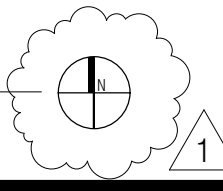
Site Key

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Location Map

NOT TO SCALE RE: /



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MCC Longview HT Addition/Renovation

500 SW Longview Road
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PERMIT/BID DOCUMENTS

Issued: September 23, 2021

Rev. #	Description	Date Issued
1	Addendum #3	10/27/21

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CODE REVIEW DATA, LIFE SAFETY PLANS

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Code and Life Safety Narrative

Facility Information:
Name: MCC Longview HT Renovation/Addition
County: Jackson
City: Lee's Summit, Missouri
Local Fire Department (responding fire service): Lee's Summit Fire Department
Building Inspection Department: Lee's Summit Development Services

Owner:
Metropolitan Community College of Kansas City
3200 Broadway
Kansas City, Missouri 64111
p/ 816.604.1000

AHJ:
City of Lee's Summit, Missouri

Architect:
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Project Description:
The Project consists of two parts. The first is a renovation of one large classroom on the second level of the HT building into two smaller classrooms. The second is a small high-bay addition on the west side of the building to support MCC's Collision program.

Applicable Building Codes:
- 2018 International Building Code (IBC)
- 2018 International Existing Building Code (IEBC)
- 2018 International Fire Code (IFC)
- 2017 National Electrical Code (NEC)
- 2018 International Mechanical Code (IMC)
- 2018 International Plumbing Code (IPC)
- 2018 International Fuel Gas Code (IFGC)
- NFPA Standards:
2010 NFPA 10 – Portable Fire Extinguishers
2010 NFPA 13 – Installation of Sprinkler Systems
2010 NFPA 14 – Installation of Standpipes and Hose Systems
2010 NFPA 72 – National Fire Alarm Code
2010 NFPA 110 – Emergency and Standby Power Systems
- 2009 A117.1 Accessible & Usable Buildings & Facilities

Construction Type:
Existing Building: Type II-B
Addition: Type II-B
Existing Building is fully Sprinklered; Addition to be fully Sprinklered.

Occupancy Types: B, S

Fire Resistive Elements:

Floor Assembly: 0 hr
Primary Columns and Beams: 0 hr
Exit Stairways and Passageways: 0 hr
Mechanical Shafts: 0 hr
Elevator Hoistway: 0 hr
Roof: 0 hr
Mechanical Rooms: 0 hr
Corridors: 0 hr

Allowable Building Height

Allowable building height: 75'-0"
Actual building height: 27'-6" (average grade plane to highest portion of roof)
Allowable Number of Stories: 3 Stories
Actual number of stories: 2 stories

Allowable Building Area

Base Allowable: 23,000 sf (SM)
Frontage Increase: (11 - 0.25) x 30/30 = 0.75, or 75%
23,000 x 0.75 + 23,000 = **40,250 GSF**
Actual Building Area: 29,442 sf

Occupancy Load Factors:

Offices: 100 sf/person
Classrooms: 20 sf/person
Workshops: 50 sf/person
Storage/Mechanical: 300 sf/person

Net Occupant Load Increase:

+49 Persons in Level 1 Addition
No Net Increase in Existing Level 1 Spaces
No Net Increase on Level 2

Exit Access Travel Distance

300 ft Maximum

Common Path of Egress Travel

100 ft Maximum, B Occupancy, Sprinklered

Building and Occupancy Separation

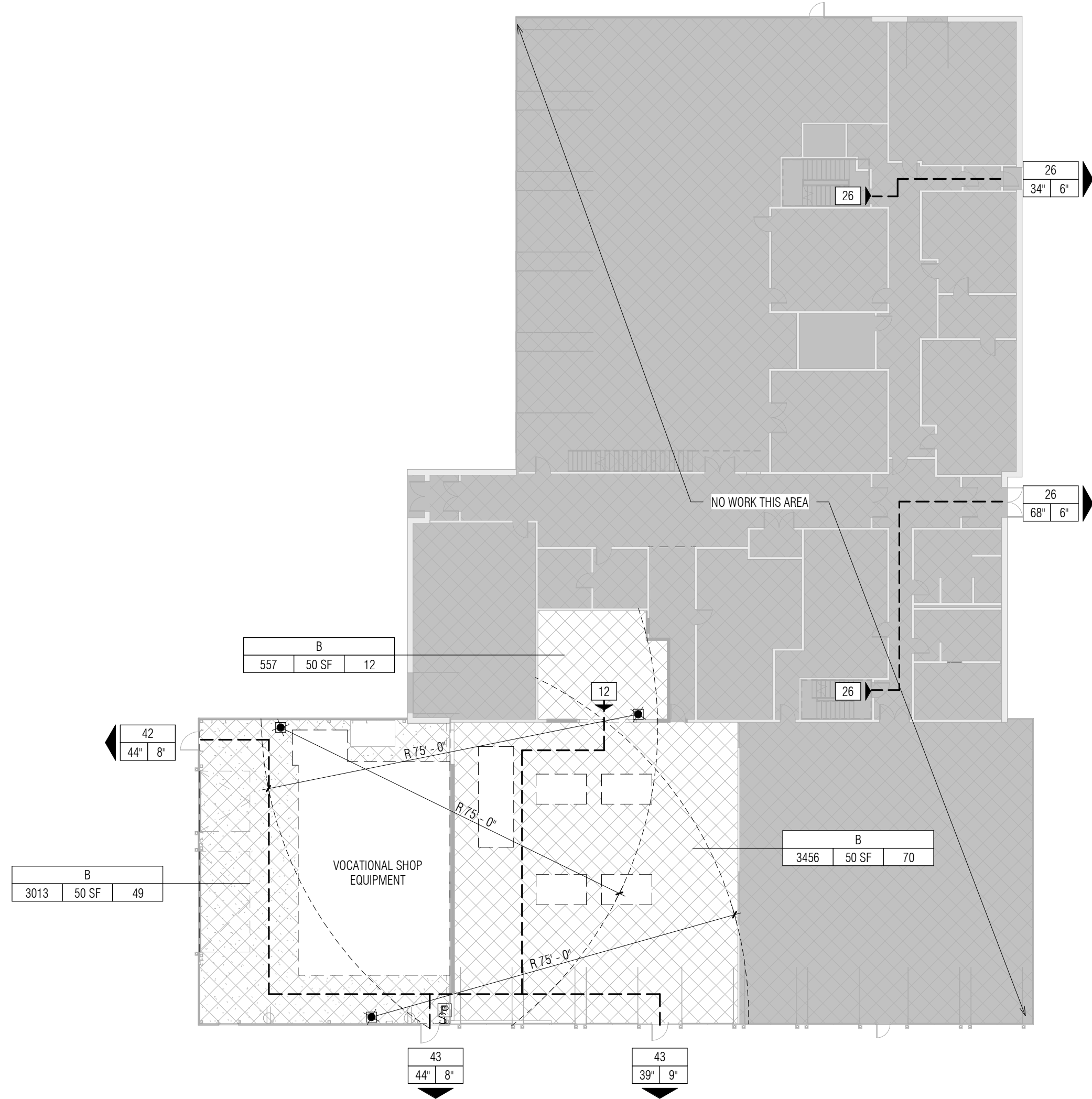
The building is classified as Occupancy Type B, with accessory S occupancies. Occupancy separation is not required.

Active Fire Safety Features (CONFIRM WITH LANKFORD)

Automatic Wet Sprinkler System - per NFPA 13
Manual Dry Standpipe System - per NFPA 14 (exterior only)
Fire Alarm System (Emergency Voice Alarm Communication) - per NFPA 72
Fire Extinguishers - per NFPA 10
Exit Signs - along means of egress except at main exterior exit doors and where only one exit is required (per IBC)
Emergency lighting - along means of egress (per IBC)

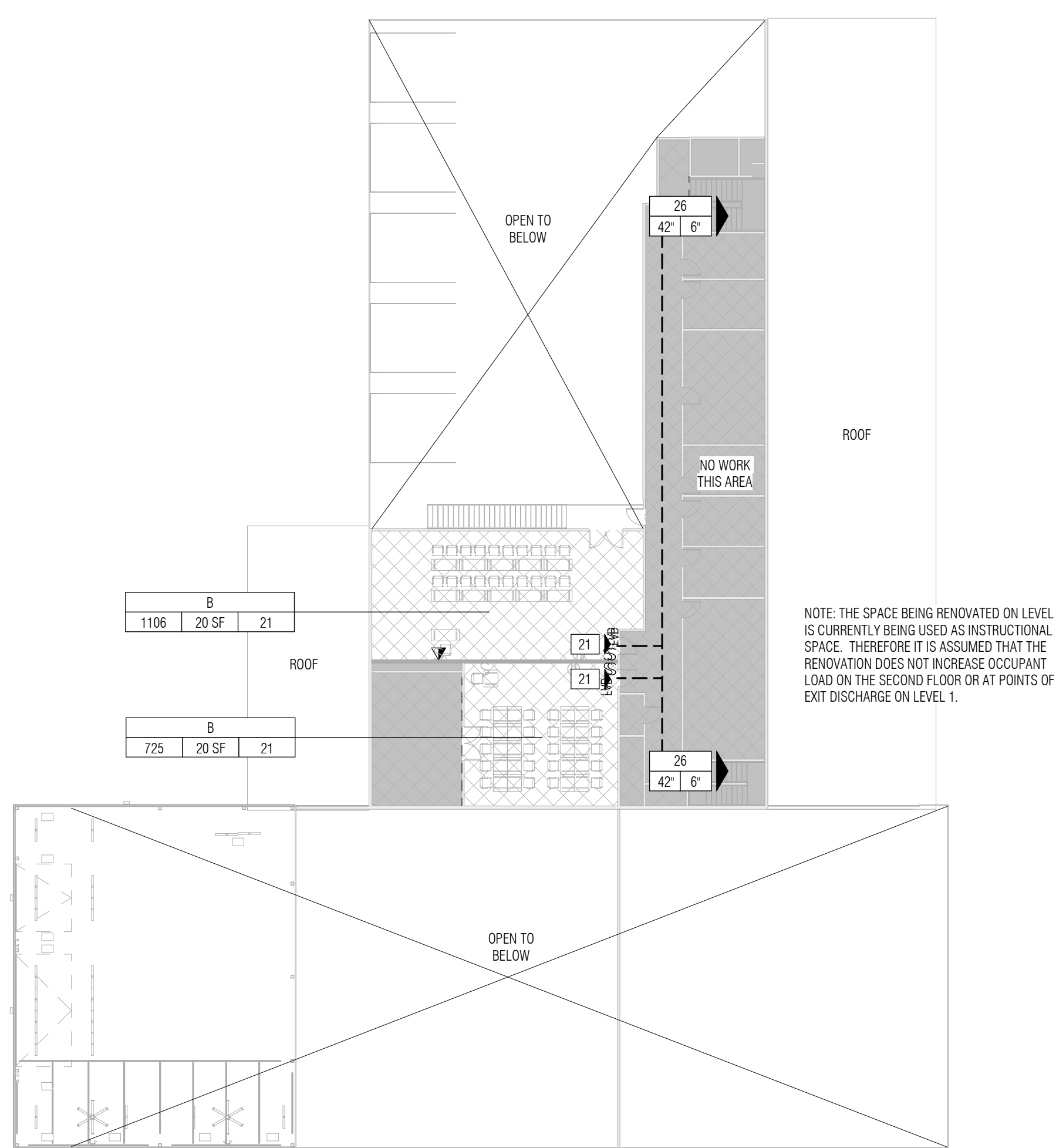
Floor Area Ratio (ref. Jackson County GIS Parcel Viewer)
Total Constructed Area: 23,990 sf
Total Land Area: 4,744,043 sf
Floor Area Ratio: 0.004

Classrooms in Building
Existing: 6
Proposed: 7



1 Level 1 Life Safety Plan

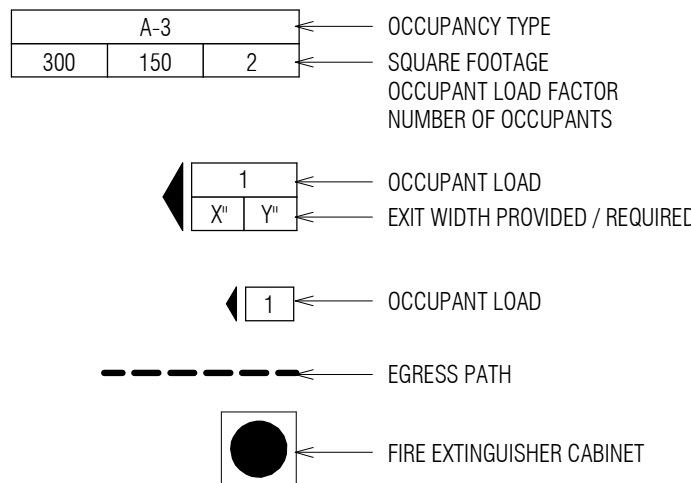
1" = 20'-0" RE: 1/0-A200



2 Level 2 Life Safety Plan

1" = 20'-0" RE: 1/0-A200

Life Safety Symbols



1. DEMOLITION GENERAL NOTES APPLY TO ALL DEMOLITION SHEETS.
2. REFER TO EXISTING RECORD DOCUMENTS PROVIDED BY OWNER FOR COORDINATION WITH EXISTING CONDITIONS AND FIELD VERIFICATION.
3. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION.
4. REFER TO ARCH. DRAWINGS FOR EXTENT OF SITE AND UTILITY DEMOLITION.
5. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AVIT, AND SECURITY DRAWINGS FOR EXTENT OF REMOVAL, MODIFICATION AND REPLACEMENT OF EXISTING UTILITY AND BUILDING SYSTEMS.
6. THESE DRAWINGS ARE PROVIDED AS A GENERAL GUIDE FOR DEMOLITION. CONTRACTOR ASSUMES RESPONSIBILITY FOR VERIFYING ADDITIONAL DEMOLITION THAT MAY BE REQUIRED FOR PROPER INSTALLATION OF NEW WORK. ALL DEMOLITION WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS.
7. FIELD VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY WORK. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES DETERMINED TO THE PROJECT SCOPE OF NEW CONSTRUCTION.
8. ALL DEMOLITION WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS.
9. EXISTING WALLS SHOWN GRAPHICALLY AS SOLID GRAY TO REMAIN. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AND PREPARE SURFACES TO RECEIVE NEW CONSTRUCTION OR FINISHES.
10. CARE SHOULD BE MADE TO KEEP DUST AND NOISE FROM DEMOLITION ACTIVITIES FROM THE BYPASS AREA OF SELECTIVE DEMOLITION AND MAINTAIN DUSTPROOF PARTITIONS, COVER AND PROTECT FURNITURE, FURNISHINGS AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.
11. MAINTAIN SERVICES/SYSTEMS THAT REMAIN, AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION. PROVIDE TEMPORARY SERVICES/STAYS THAT MAINTAIN STABILITY OF SELECTIVE DEMOLITION AND THAT MAINTAIN CONTINUITY OF SERVICE TO OTHER PARTS OF THE BUILDING.
12. NEATLY CUT OPENINGS AND Holes PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE ADJACENT CONSTRUCTION TO REMAIN.
13. SHORE AND BRACE EXISTING STRUCTURE AS REQUIRED PRIOR TO START OF DEMOLITION WORK.
14. FOR UTILITY INSTALLATION, REMOVE ONLY PORTIONS OF PARTITIONS REQUIRED FOR PENETRATIONS THROUGH EXISTING WALLS. PREPARE SURFACES FOR REPLACEMENT CONSTRUCTION.
15. PROTECT EXISTING CONSTRUCTION NOT INDICATED TO BE REMOVED. PATCH AND REPAIR ANY DAMAGE THAT MAY OCCUR, REPAIR OR REPLACE, AT NO COST TO THE OWNER. ALL AREAS OR ITEMS DAMAGED DURING THE DEMOLITION.
16. EXTENTS OF SELECTIVE DEMOLITION WORK INDICATED: THOSE NOT DIMENSIONED ARE APPROXIMATED TO REPRESENT DESIGN INTENT. MODIFY EXTENTS AS REQUIRED TO PROVIDE NEW WORK INDICATED. RETURN ALL EXISTING TO ORIGINAL CONDITION UNLESS OTHERWISE SCHEDULED TO REMAIN TO ORIGINAL CONDITION UNLESS NOTED OTHERWISE.
17. PATCH SURFACES TO MATCH ADJACENT CONSTRUCTION AT ALL REMOVED DEVICES.
18. PREPARE ALL WALLS FOR NEW PAINT FINISH.
19. TERMINATE AND CAP WATER SERVICE, WASTE, AND VENT LINE WITHIN EXISTING WALL CONSTRUCTION AT PLUMBING FIXTURE REMOVAL WHERE EXISTING WALL TO REMAIN UNLESS NOTED OTHERWISE.
20. COORDINATE DEMOLITION WORK WITH NEW WORK REQUIRED. RESOLVE EXISTING CONFLICTS THAT CONFLICTS WITH NEW WORK. CONSULT STRUCTURAL ENGINEER PRIOR TO REMOVING BUILDING CONSTRUCTION NOT SPECIFICALLY INDICATED TO BE DEMOLISHED.
21. MAINTAIN FIRE LIFE SAFETY AND EGRESS PATHWAYS AND EXITS. WHERE WORK OCCURS ADJACENT TO OCCUPIED SPACES/AREAS PROVIDE TEMPORARY LIFE SAFETY MEASURES TO MAINTAIN EGRESS.
22. MAINTAIN ALL EXISTING TO REMAIN FIRE RATED ASSEMBLIES AND COMPONENTS. REFER TO LIFE SAFETY FIRE RATED.
23. PROMPTLY REMOVE DEMOLISHED MATERIALS FROM OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM. DISPOSE OF ALL DEMOLITION WASTE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO SPECIFICATIONS FOR RECYCLING REQUIREMENTS.
24. IF NOT EXPECTED THAT HAZARDOUS MATERIAL WILL BE ENCOUNTERED IN THE EXISTING MATERIALS, DISPOSE OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED. DO NOT DISTURB. IMMEDIATELY NOTIFY SUPERINTENDENT AND OWNER.
25. GENERAL CONTRACTOR SHALL OUTLINE SCHEDULE, ORDER AND TIMELINE OF MASS AND SELECTIVE DEMOLITION.
26. REMOVE ALL SUSPENDED CEILING, CEILING TILES AND GND PER PERMITS ONLY AND DO NOT SHOW ALL CONDITIONS THAT MAY AFFECT THE WORK OF THIS CONTRACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
27. WHEN DEMOLISHING A WALL THAT IS IN AN EXISTING CEILING TO REMAIN, TAKE CARE NOT TO DAMAGE EXISTING CEILING. PATCH AND REPAIR TO MATCH EXISTING CEILING TO NOTE LOCATIONS OF ADDITIONAL DEMO FOR REMOVAL OF EXISTING CEILING.
28. GENERAL CONTRACTOR TO NOTE VARIATIONS OF ADDITIONAL DEMO FOR REMOVAL OF EXISTING CEILING NOT OUTLINED FOR IN DESIGN DOCUMENTS. THESE AREAS SHOULD BE INCLUDED IN PROJECT SCOPE & REPLACED WITH LIKE EXISTING OR IDENTIFIED CONSTRUCTION.

- 1 REMOVE PORTION OF EXISTING INSULATED METAL WALL PANEL FOR NEW OPENING. REMOVE WHOLE PANEL WIDTHS. DO NOT CUT VERTICALLY. HORIZONTAL CUT AT HEAD TO BE CLEAN AND LEVEL TO RECEIVE NEW TRIM. REMOVE ALL ITEMS, INTERIOR AND EXTERIOR, THAT ARE ATTACHED TO THIS PORTION OF THE EXISTING WALL.
- 2 REMOVE PORTION OF EXISTING CONCRETE CURB DOWN TO T.O. EXISTING GRADE BEAM.
- 3 REMOVE OUTDOOR UNIT AND ASSOCIATED SERVICE LINES BACK TO MECHANICAL ROOM HT201.
- 4 REMOVE DOOR, FRAME, HARBORVIEW. EXIT SIGN, AND/OR SEAT SUPPORT.
- 5 REMOVE HORIZONTAL STEEL GIRT BETWEEN COLUMNS.
- 6 REMOVE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SUPPRESSION EQUIPMENT WHERE INDICATED ON MEFF DEMOLITION DRAWINGS.
- 7 REMOVE EXISTING VEHICLE LIFT AND SALVAGE FOR REUSE IN NEW LOCATION. CLEANLY SAW CUT AND REMOVE PORTION OF EXISTING CONCRETE CURB AROUND LIFT.
- 8 REMOVE PORTION OF EXISTING PARTITION WALL, INCLUDING DOOR, FRAME AND FLOOR TILES WHERE OCCURS.
- 9 REMOVE FLOOR TILES AND RUBBER WALL BASE.
- 10 REMOVE LAY-IN CEILING AND ALL CEILING-MOUNTED OR CEILING-TERMINATED EQUIPMENT. COORDINATE REUSE OF PROJECTOR AND WIRELESS ACCESS POINT WITH OWNER.
- 11 RELOCATE WALL-MOUNTED DEVICES AND CONDUIT FOR NEW OPENING.
- 12 REMOVE PORTION OF EXISTING HALLWAY CEILING



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JEREMY
BOYD KAHM

7-23-21
NUMBER

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ADDU

A1 Abbreviations

A21 Architectural Materials and Graphic Symbols

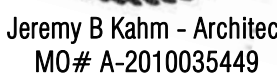


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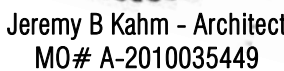
1. REFER TO FINISH PLANS FOR KEYED LEGEND OF FINISH AND MATERIAL ABBREVIATIONS.
2. REFER TO REMARKS COLUMN AND SPECIFICATION SECTION 080000 FOR GLASS TYPE AND SCHEDULE.
3. REFER TO REMARKS COLUMN AND DIVISION 08 SPECIFICATIONS FOR TEMPERATURE RISE REQUIREMENTS.
4. STANDARD ABBREVIATIONS FOR DOOR MATERIAL INCLUDE SOLID WOOD, ALUM=ALUMINUM, HM=HOLLOW METAL.
5. PROVIDE FULLY TEMPERED GLAZING AT ALL LOCATIONS RELATIVE TO HEIGHT ABOVE FINISH FLOOR AND DOOR LATCH PER [IBC] <local governing authority>.
6. PROVIDE F.R. LOUVERS AT ALL F.R. TYPE "L" DOORS.
7. PROVIDE GLAZING FOR RESTROOM DOORS EXCEPT WHERE DOOR LOUVERS ARE INDICATED. SEE MECHANICAL DRAWINGS.

2. NOTES APPLY TO ALL PARTITION SYSTEMS.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. REFER TO CODE ANALYSIS PLANS AND SECTIONS FOR REQUIRED FIRE-RATINGS.
5. VERTICAL PARTITION CAPITAL LETTER DESIGNATIONS (A, B, C, D, ETC.) REFER TO THE TYPES OF ASSEMBLY. NUMBER REFERENCES REFER TO THE DEPTH OF FRAMING: EACH ASSEMBLY TYPE: METAL FRAMING: 1-1/8" = 2-1/2"; 3-3/8" = 5"; ETC. WOOD FRAMING: 0-3/4" = 1-1/2"; 1-3/4" = 3"; ETC. SURFACE LEADERS AND SURFACE MEMBER DESIGNATIONS REFER TO ACoustICAL AND FIRE-RATED ASSEMBLIES. EXAMPLE: A3- TYPE "A" ASSEMBLY WITH 3/8" METAL FRAMING; A3- SAME AS PREVIOUS WITH ACoustICAL INSULATION AND ACoustICAL SEALANT; A3- SAME AS PREVIOUS WITH FIRE-RATING SHOWN ON CODE ANALYSIS PLANS. NOTE: ASSEMBLIES MAY BE BOTH ACoustICAL (a) AND FIRE-RATED (f).

7. PROVIDE ALL NECESSARY BRACING TO STRUCTURE FOR INTERIOR PARTITIONS.
8. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES OF FIRE-RATED PARTITIONS WITH LATHEX ACUSTICAL JOINT SEALANT (073900).
9. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES OF NONRATED PARTITIONS WITH LATHEX ACUSTICAL JOINT SEALANT (073900).
10. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES OF 3-C RATED PARTITIONS WITH LATHEX ACUSTICAL JOINT SEALANT (073900). PROVIDE TWO CONTINUOUS PARALLEL BEADS OF LATHEX ACUSTICAL JOINT SEALANT BENEATH RUNNER TRACKS.
11. SEAL PERIMETER JOINTS, PENETRATIONS, VOIDS, AND PERIMETER OF DEVICE WALL BOXES OF FIRE-RATED PARTITIONS WITH PANTABLE FIRE-RESISTIVE SYSTEMS (010610, KICKER BRACK (050000) AT TOP OF PARTIAL HEIGHT BOND-BEAM AT 4'-0" WELD KICKER TO BUTTEE OR ANCHOR TO BOND BEAM WITH EXPANSION ANCHOR (050000) AND ANCHOR TO STRUCTURE ABOVE (OR AT SPACING INDICATED PER STRUCTURAL DRAWINGS) AND AT OTHER SPACING INDICATED.
12. PROVIDE PARTIAL TOP ANCHOR (042000) AT TOP OF NON-FIRE RATED FULL-HEIGHT GYM PARTITIONS UNLESS NOTED OTHERWISE. PROVIDE DEFLECTION TRACK AT FIRE-RATED GYM PARTITIONS PER U.P. ASSEMBLY.
13. RUN GYPSUM BOARD PART (090200) ON RATED AND NON-RATED PARTITIONS THROUGH INTERSECTIONS WITH NON-RATED PARTITIONS.
14. ANCHOR METAL STUD BRACING (092216) TO ADJACENT STRUCTURE OF SAME SIZE AND THICKNESS AS PARTITION FRAMING AT 8'-0" O.C. VERTICAL MIN. X 48" O.C. TO TOP OF CURB PARTITION. PROVIDE ANCHOR HANGER AT 12'-0" IN HEIGHT. 15. PARTITION FACE ALIGNMENT - WHERE DIFFERENT PARTITION TYPES MEET AT LOCATION: OTHER THAN CORNERS, MAINTAIN A FLUSH SURFACE CONTINUOUSLY THROUGH PARTITION TYPES, UNLESS SPECIFICALLY NOTED OTHERWISE.
16. BACK TO BACK DEVICES: ALL DEVICES SHALL BE OFFSET SO THAT NO DEVICES IN ADJACENT ROOMS ARE BACK TO BACK.
17. SEE FINISH PLANS / SCHEDULE FOR WALL FINISH IN ALL LOCATIONS.
18. ALL PARTITIONS ARE FULL HEIGHT (FLOOR TO CEILING) UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, PROVIDE DEFLECTION TRACKS AS SPECIFIED AND/OR AS INDICATED ON DRAWINGS.

PERMIT/BID DOCUMENTS[illegible]

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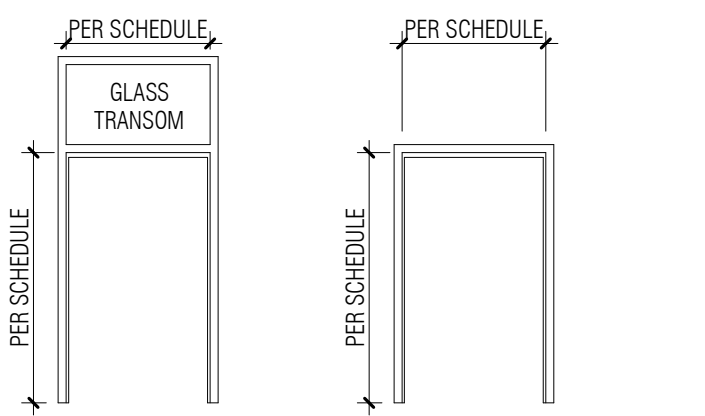
DOORS, HORIZONTAL AND VERTICAL ASSEMBLIES

A010

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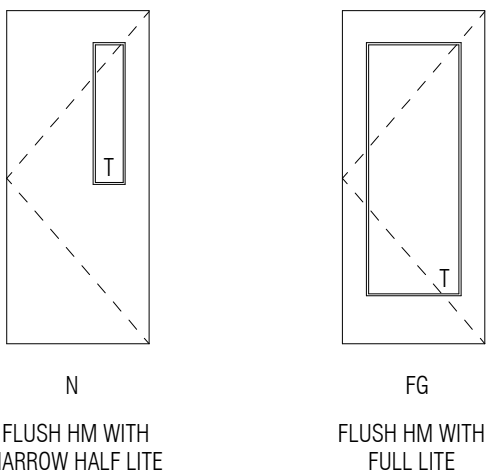
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Frame Types

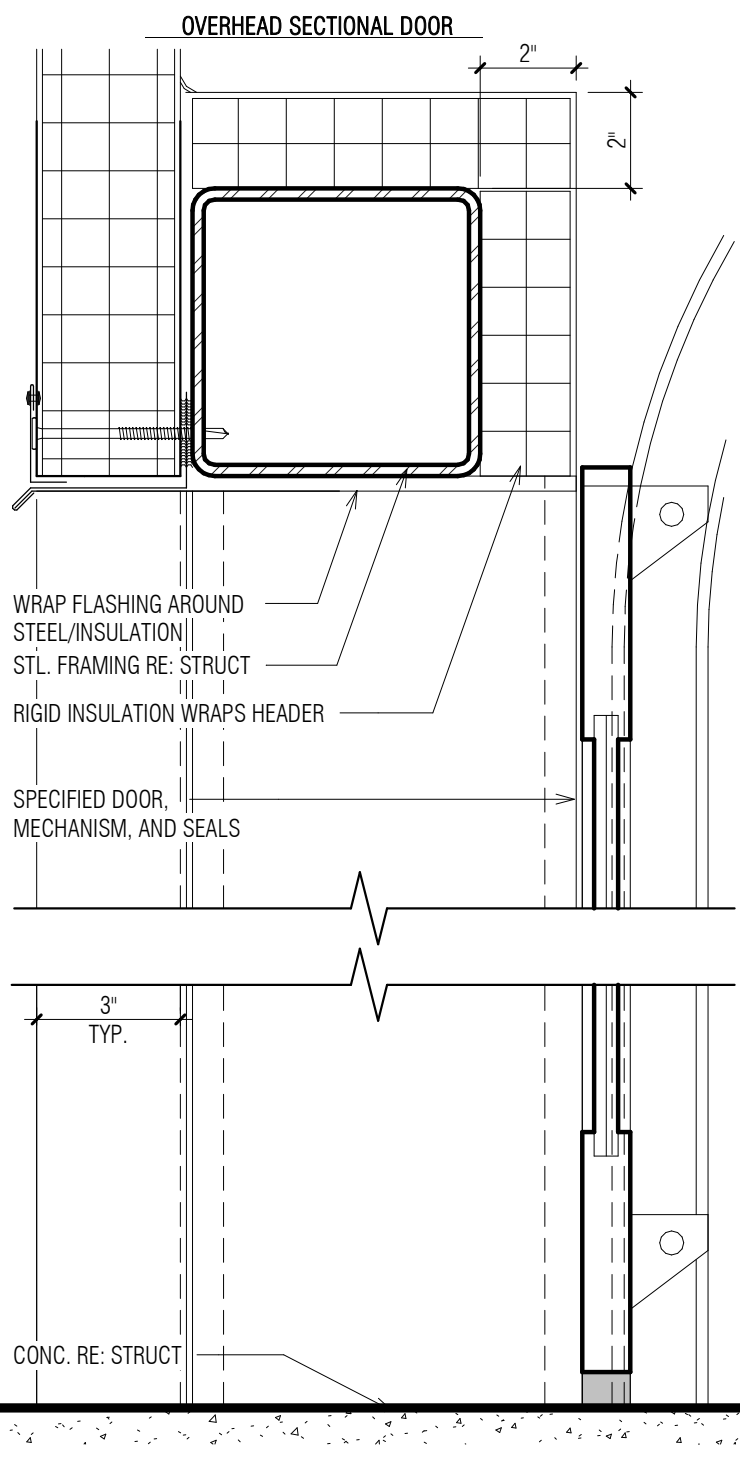


Door Types

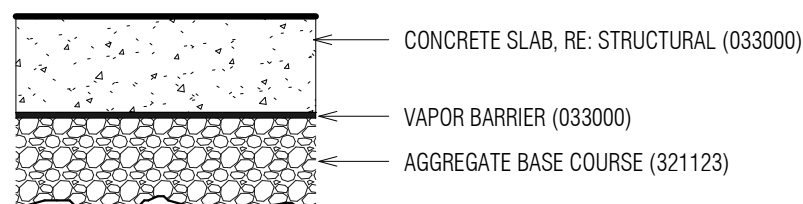
T: FULLY TEMPERED GLAZING



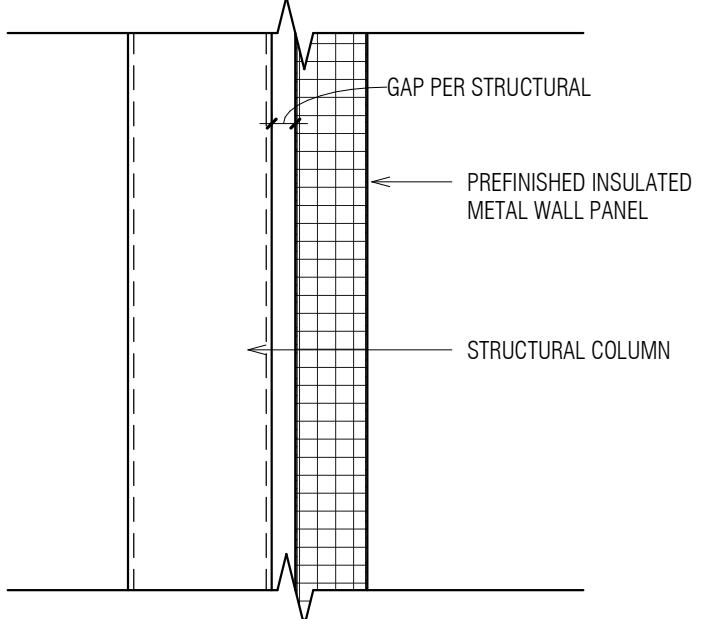
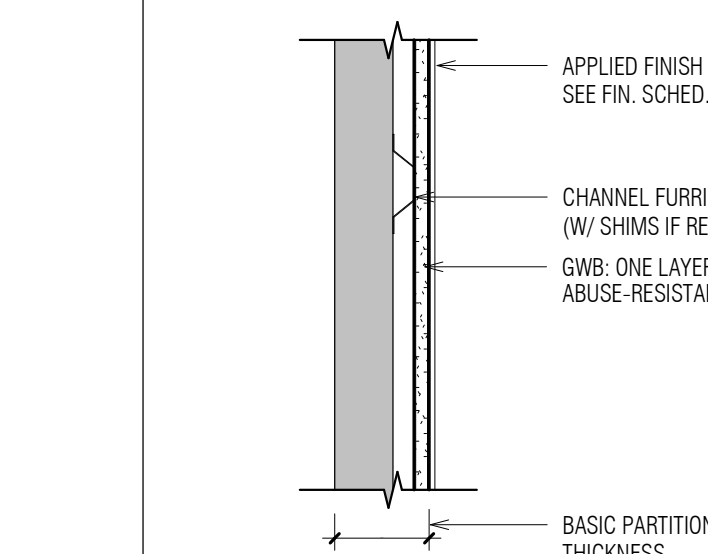
OVERHEAD SECTIONAL DOOR



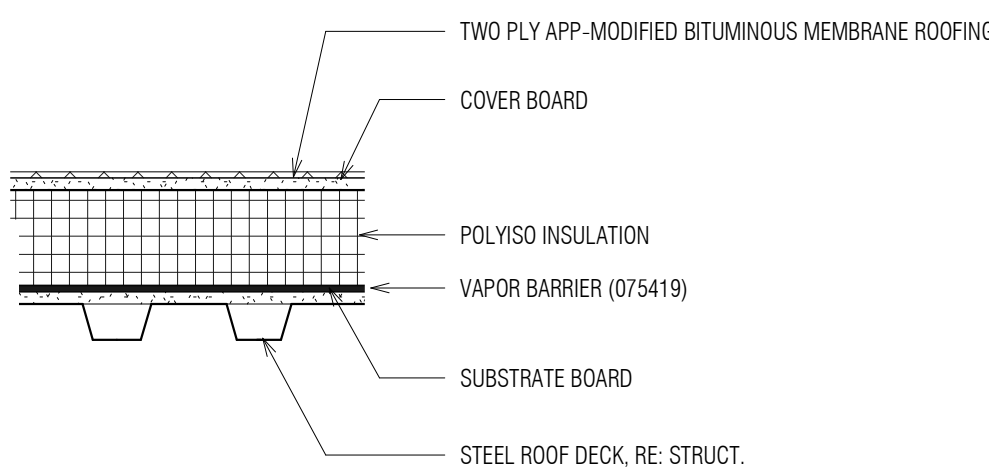
FL1 - CONCRETE SLAB ON GRADE



EW1 - INSULATED METAL WALL PANEL



RA1 - MODIFIED BIT ROOF ASSEMBLY



BNIM Architects **Architect**
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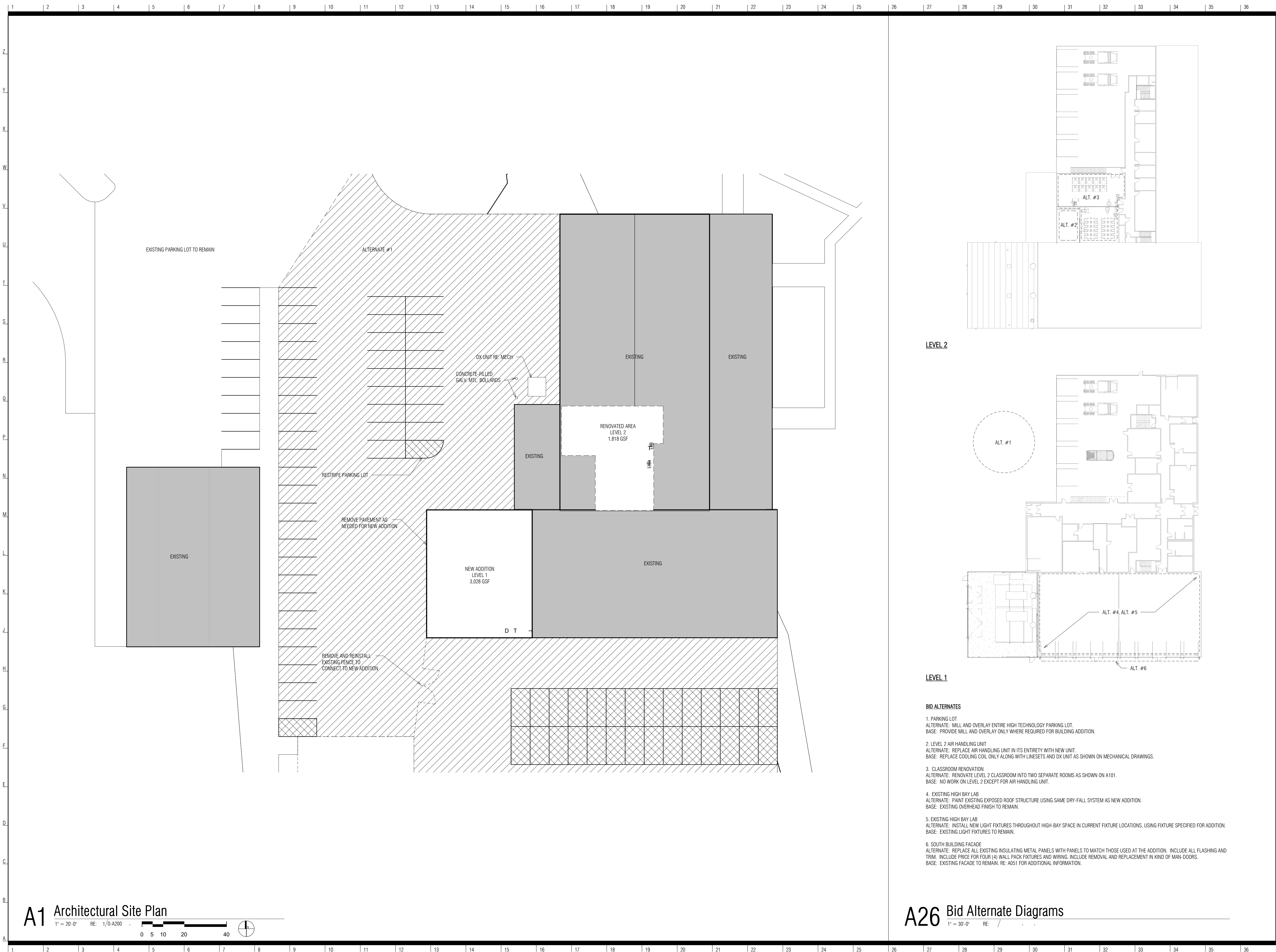


Jeremy B Kahm - Architect
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ARCHITECTURAL SITE PLAN & BID ALTERNATES

AO50

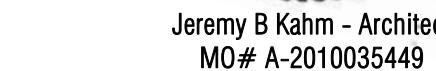


A26 Bid Alternate Diagrams

MCC Longview HT Addition/Renovation

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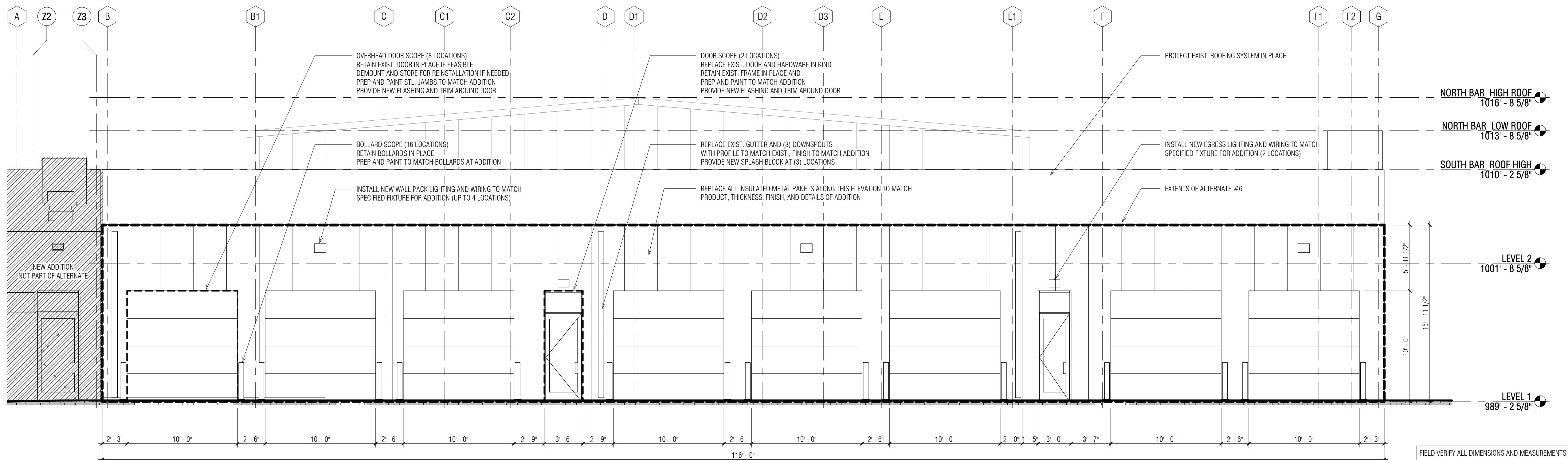
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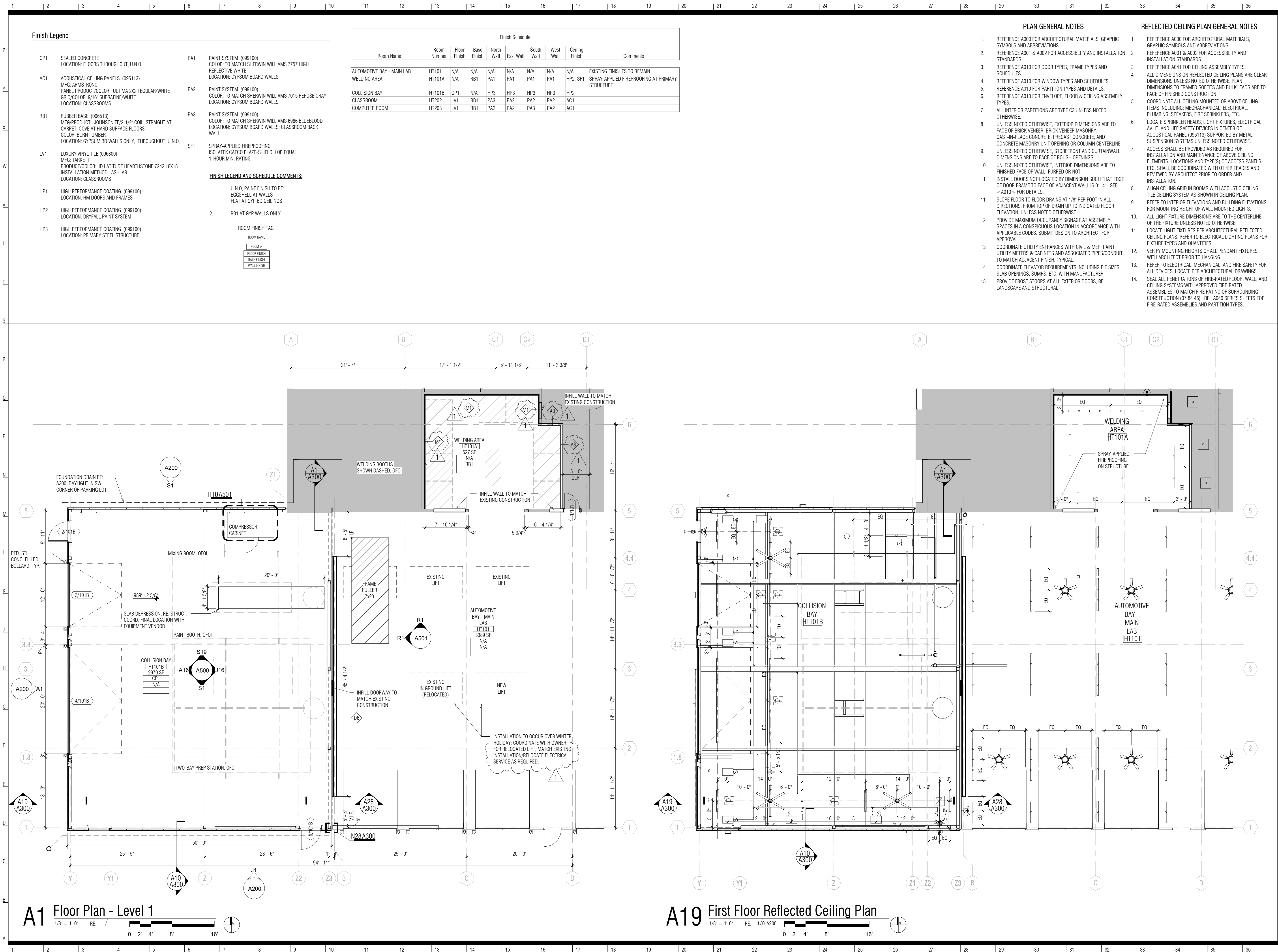
ALTERNATE #6 ELEVATION

A051

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ROOM FINISH TAG

Finish Schedule

PLAN GENERAL NOTES

1. REFERENCE A000 FOR ARCHITECTURAL MATERIALS, GRAPHIC SYMBOLS AND ABBREVIATIONS

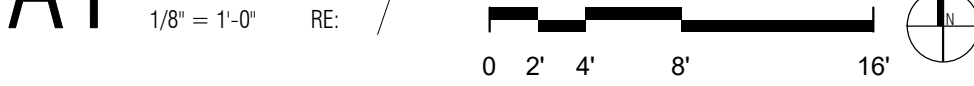
REFLECTED CEILING PLAN GENERAL NOTES

1. REFERENCE A000 FOR ARCHITECTURAL MATERIALS,
GRAPHIC SYMBOLS AND ABBREVIATIONS

J25 Interior Elevation - Classroom Teaching Wall
1/4" = 1'-0" RE: 1/0-A101



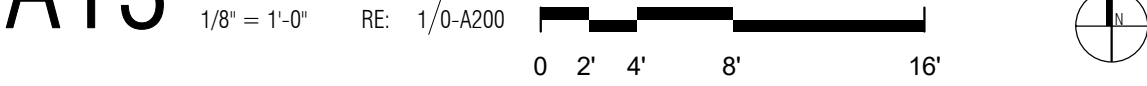
A1 Second Level Floor Plan



A25 Interior Elevation - Computer Lab Teaching Wall
1/4" = 1'-0" RE: 1/0-A101

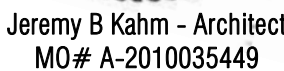


A13 Second Floor Reflected Ceiling Plan



A101

MCC Longview HT Addition/Renovation

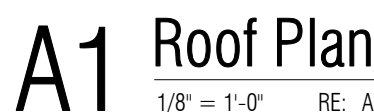
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ROOF PLAN

A110

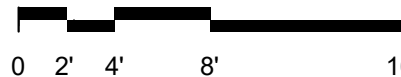
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1/8" = 1'-0" RE: A1/A05

RE: A1/A05-



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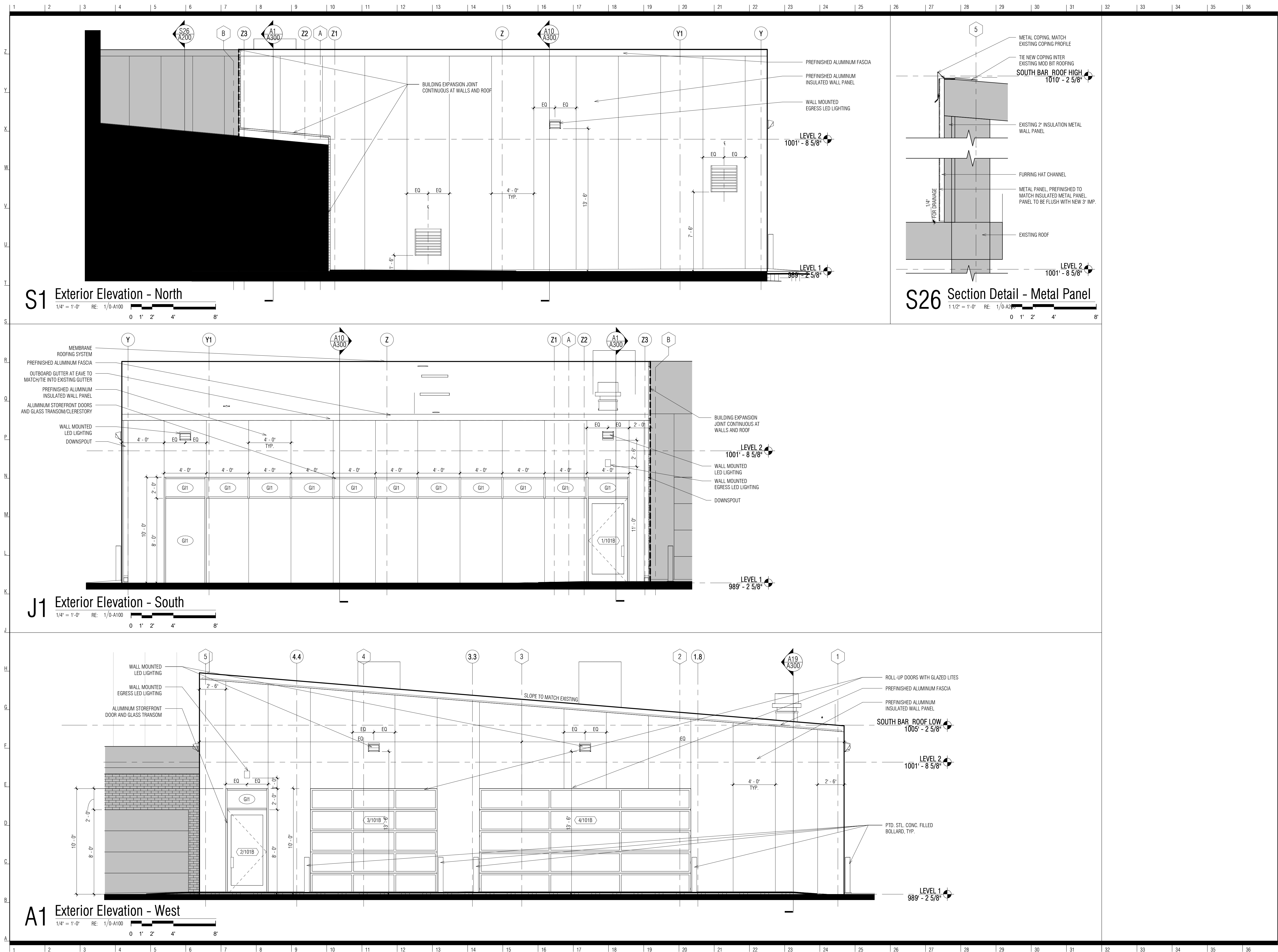
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EXTERIOR BUILDING ELEVATIONS

A200

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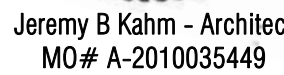
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1	Addendum #3	10/27/21

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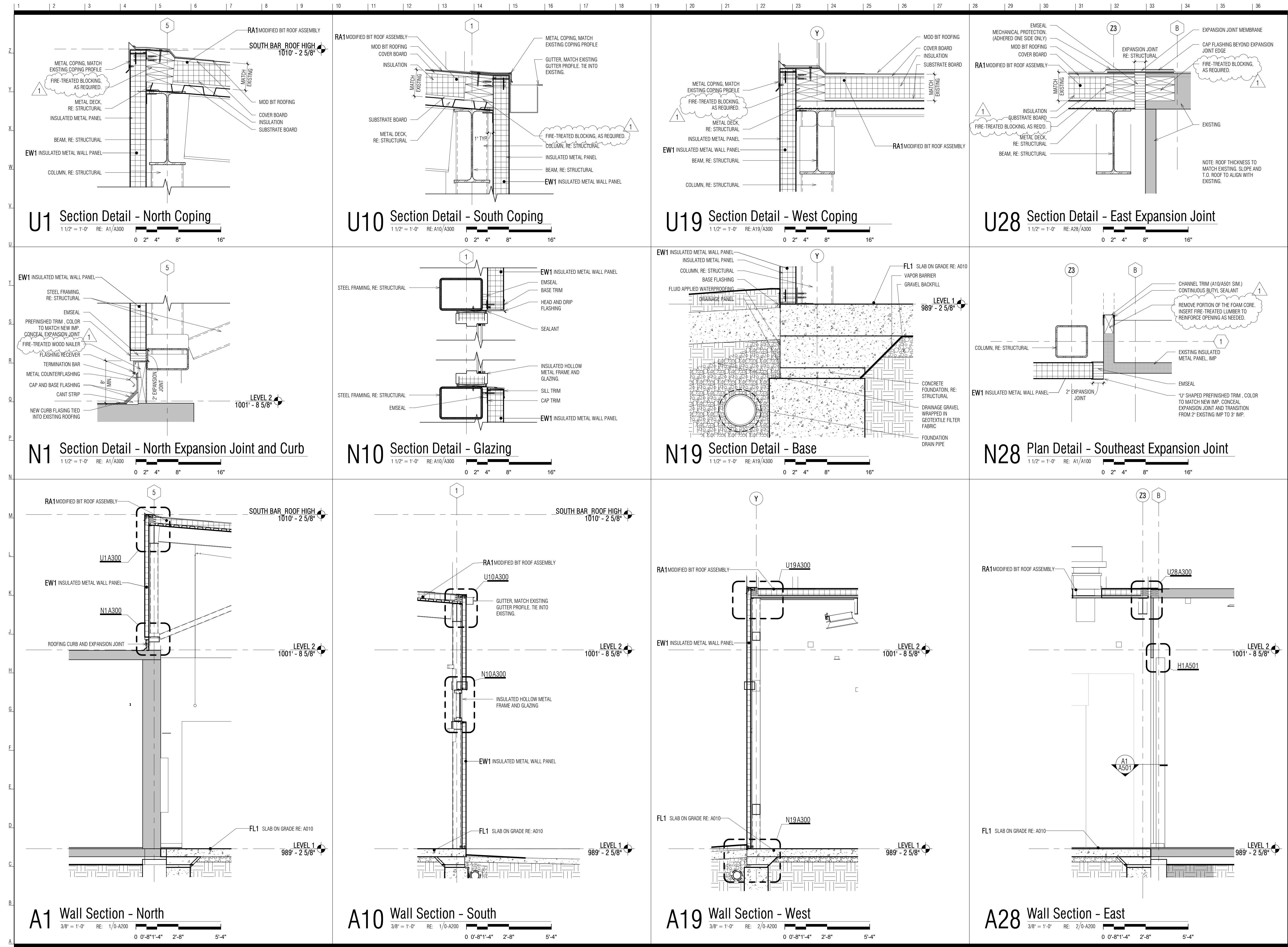
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EXTERIOR WALL SECTIONS

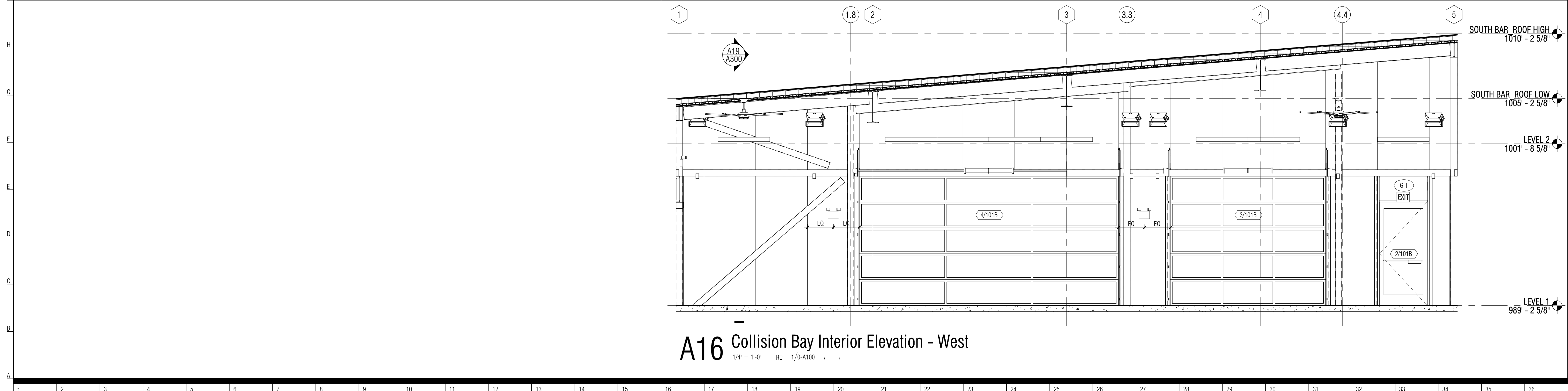
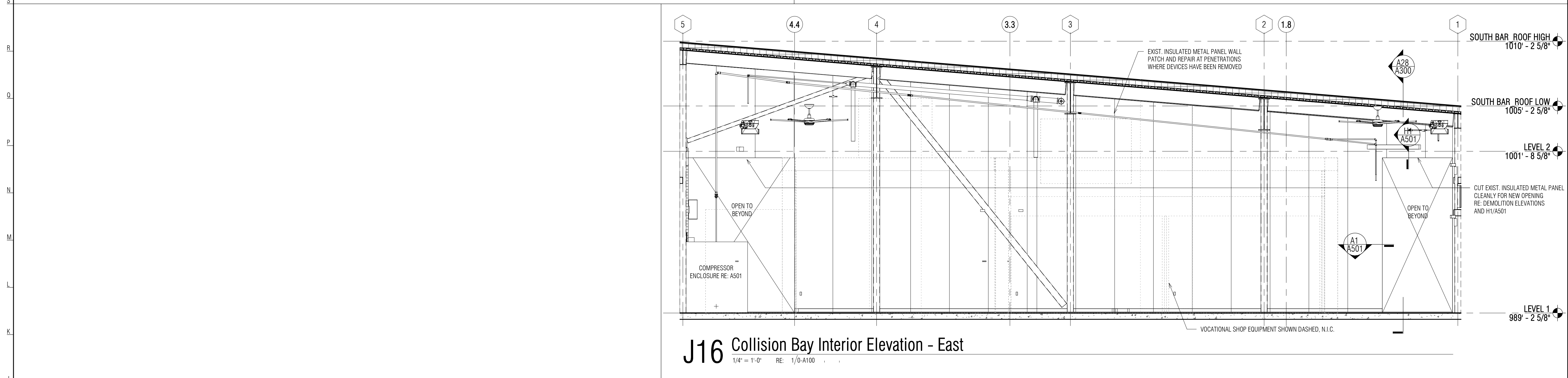
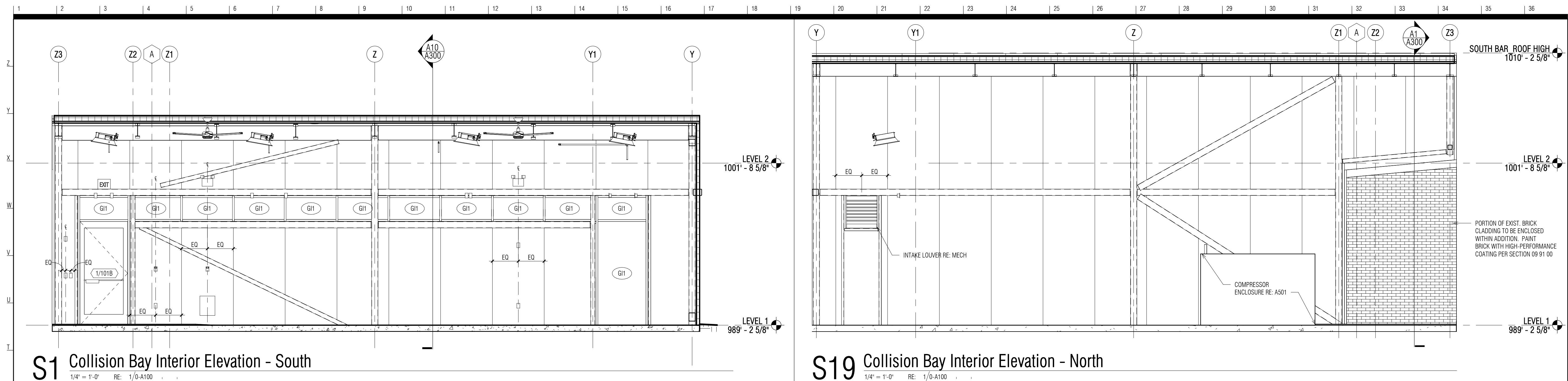
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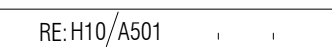
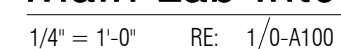
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INTERIOR ELEVATIONS AND DETAILS

A500



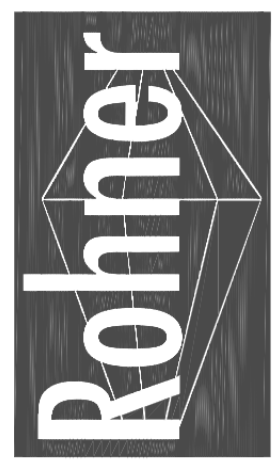
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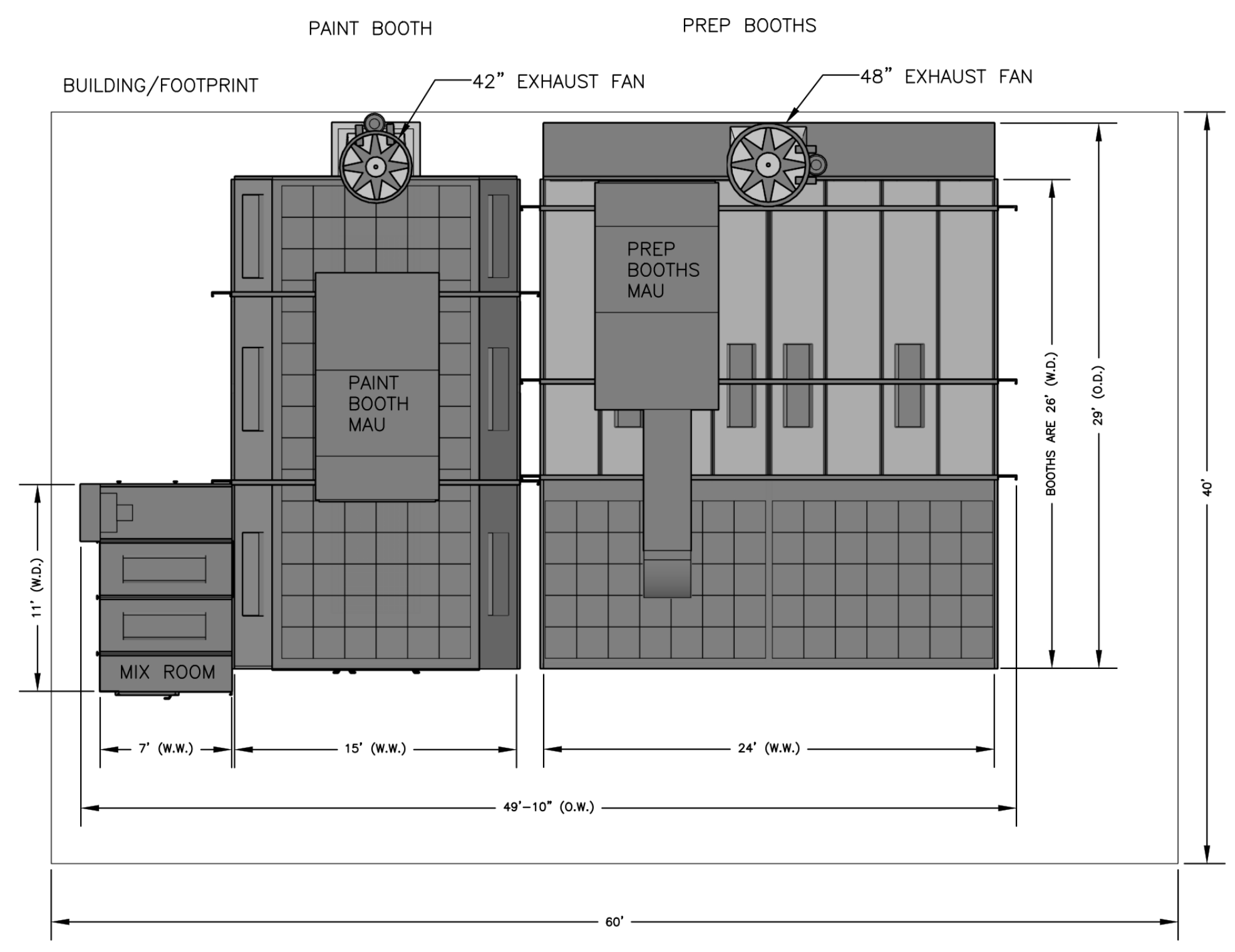
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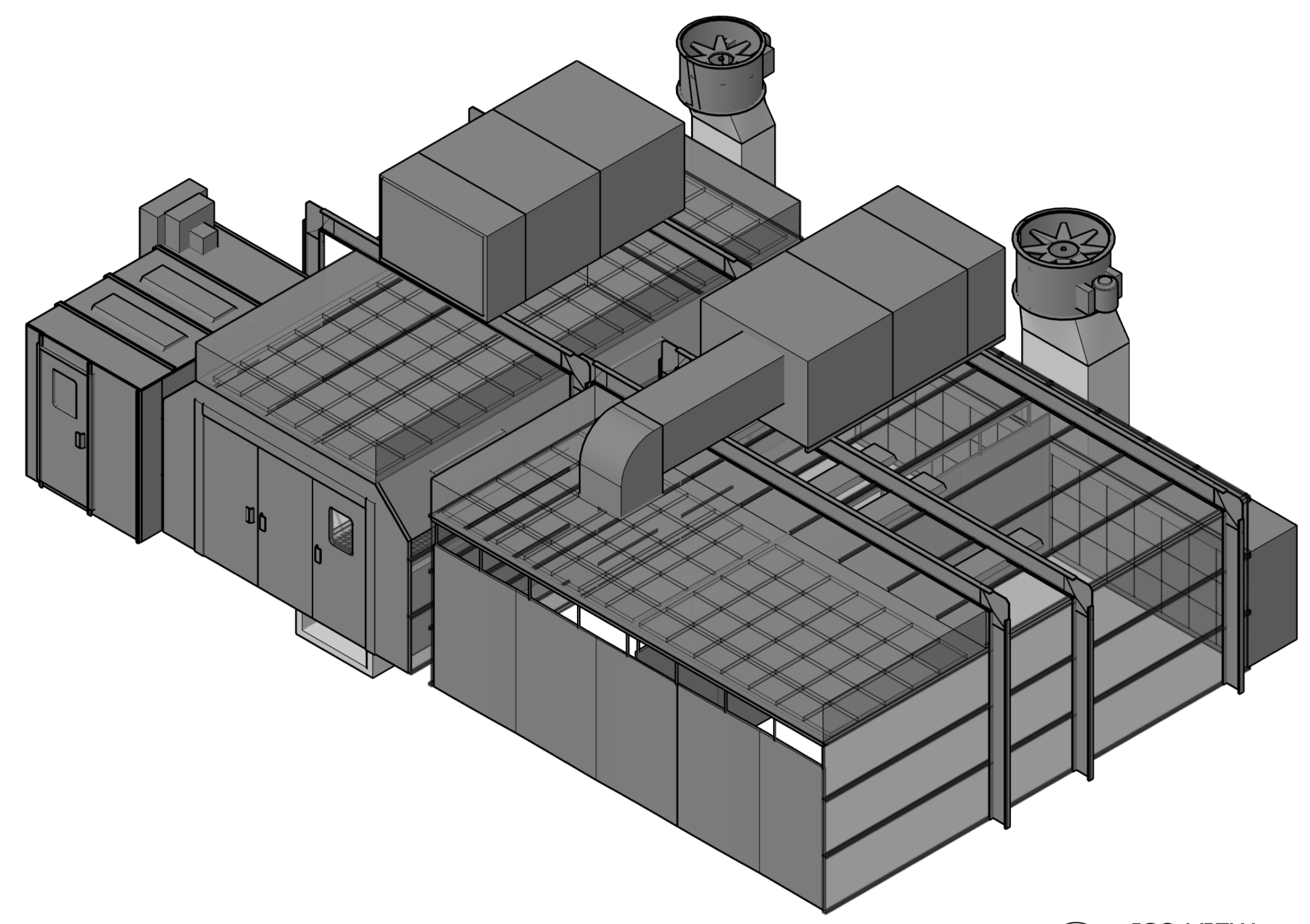
Jeremy B Kahn - Architect
MO# A-2010035449
License Name: Berkebile Nelson Immenschuh McDowell Incorporated
Profession Name: Architectural Corp.
License Number: 000377

VOCATIONAL SHOP EQUIPMENT (FOR
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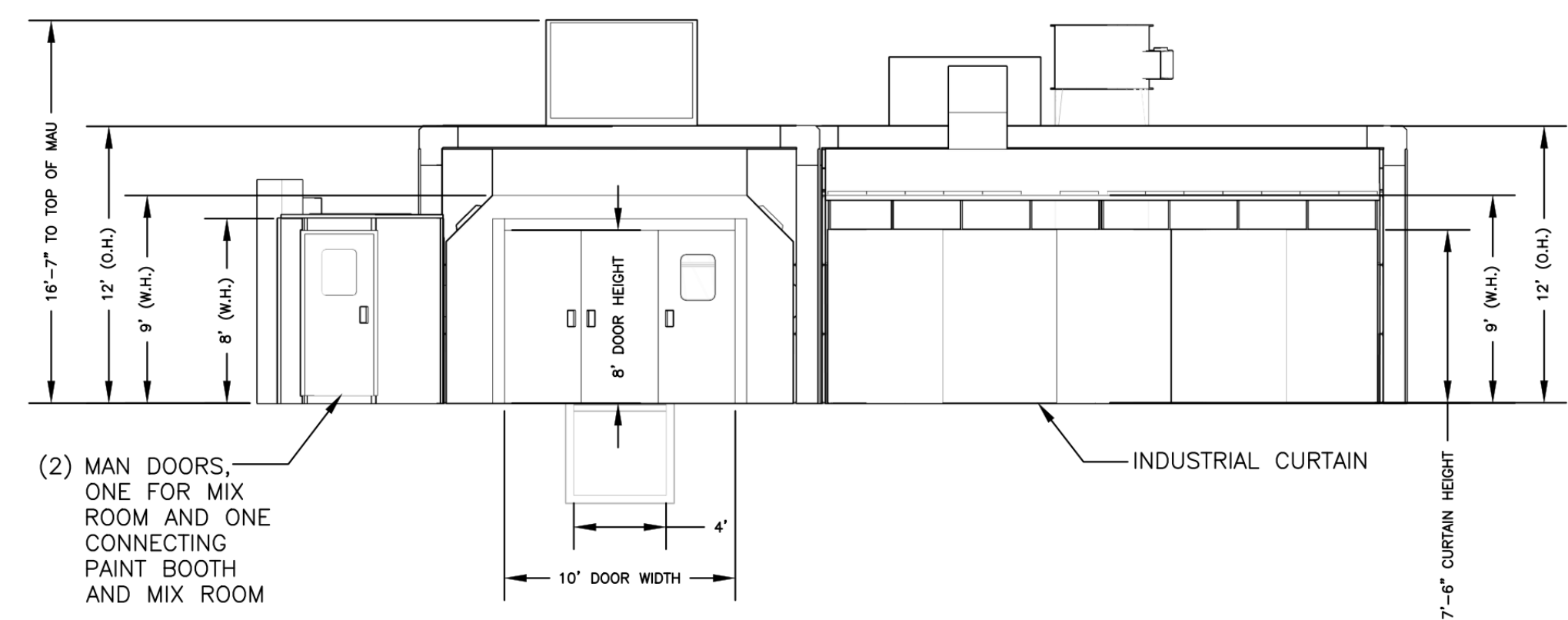
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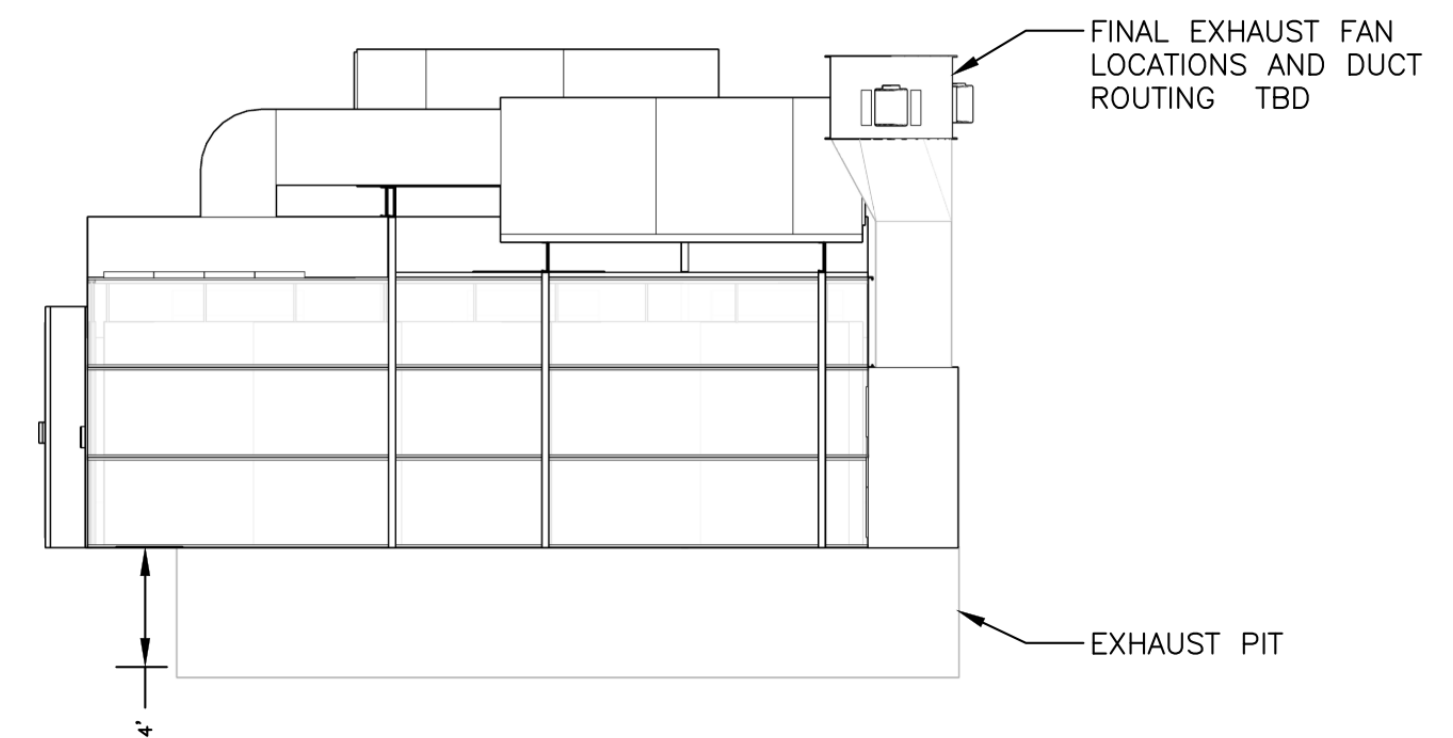
1 PLAN VIEW
Scale: 3/16"= 1'-0"



3 ISO VIEW
NTS



2 FRONT VIEW
Scale: 3/16"= 1'-0"



4 SIDE VIEW
Scale: 3/16"= 1'-0"

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S005

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MCC Longview HT Addition/Renovation

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Addendum #3

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Kathleen J Hagen
MO# E-200015532

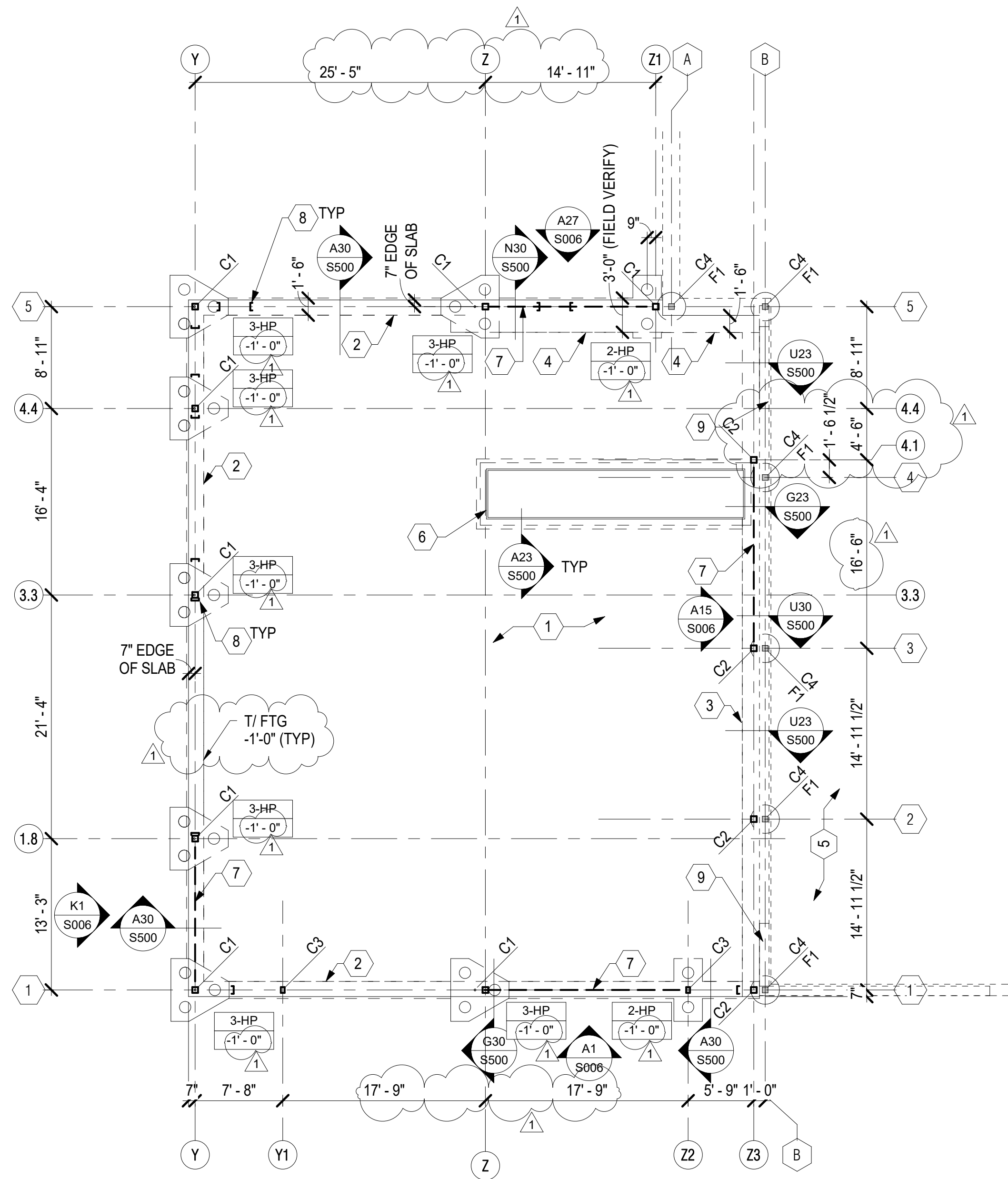
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FOUNDATION PLAN

\$100

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PLAN NOTES

- 1 6" CONCRETE SLAB-ON-GRADE w/ #4 @ 12" OC EW CTRD IN SLAB ON 15 MIL VAPOR BARRIER ON 6" CLEAN GRAVEL FILL ON PROPERLY COMPACTED SUB-GRADE. T/CONC = 989-2 5/8" +/- MATCH EXISTING, SLOPE PER ARCH
- 2 18" x 32" CONT FOOTING w/ (3) #6 T&B AND #3 TIES @ 12" OC
- 3 18" x 32" (MATCH EXISTING DEPTH) CONT FOOTING w/ (3) #6 T&B AND #3 TIES @ 12" OC. CONTINUE FOOTING OVER EXISTING PIERS AND PROVIDE (2) #6 x 3'-0" DOWELS AT EACH PIER. EPOXY GROUT 8" INTO EXISTING PIER.
- 4 WIDEN FOOTING TO 36" +/- AT GRID Z AND EXTEND TO EXISTING BUILDING, CONTINUING APPROXIMATELY 18" WIDE FOOTING TO GRID B. REINFORCE WIDENED FOOTING w/ (3) ADDITIONAL #6 T&B AND CONTINUE #3 TIES @ 12" OC
- 5 EXISTING BUILDING
- 6 PAINT BOOTH PIT PER MANUFACTURER. PROVIDE CONTINUOUS LEDGE ANGLE AND SHIM PLATE PER DETAILS AS REQUIRED PER MANUFACTURER. PROVIDE 8" THICK BASE SLAB w/ #6 @ 12" OC EW
- 7 LATERAL BRACING PER ELEVATIONS
- 8 FRAME ALL DOORS AND WALL OPENINGS w/ C8X11.5 CHANNELS ON ALL SIDES. SEE ARCH AND MECHANICAL DRAWINGS FOR OPENINGS REQUIRED.
- 9 DEMO EXISTING CURB PER ARCH

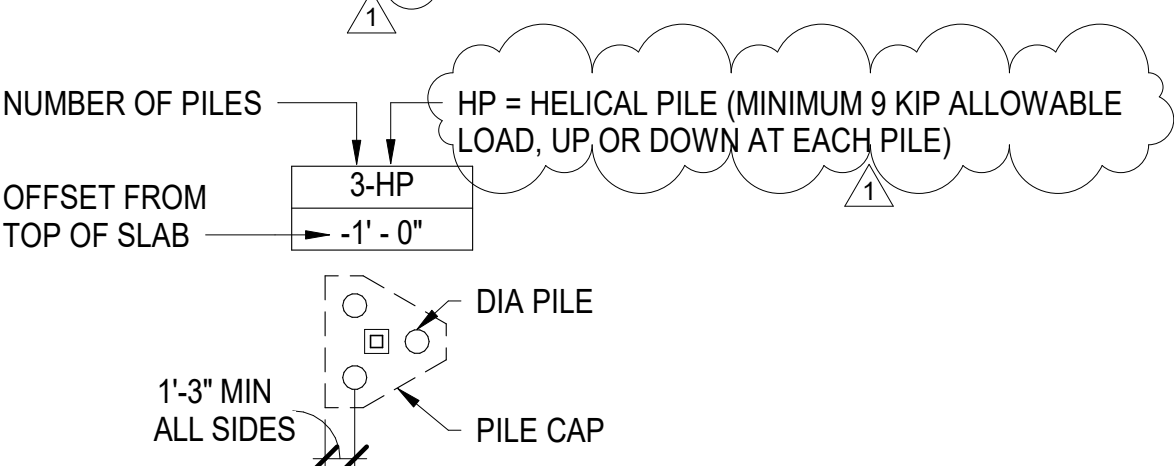
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THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE BASED ON SURVEYS MADE BY THE CONSULTANT(S) AS WELL AS MATERIAL PROVIDED BY THE OWNER AND NO CLAIM IS MADE TO ITS ABSOLUTE COMPLETENESS AND/OR ACCURACY.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. CONTRACTOR SHALL REPORT AN INCONSISTENCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

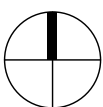
STRUCTURAL COLUMN SCHEDULE			
MARK	COLUMN SIZE	BASE PLATE	ANCHOR BOLTS
C1	HSS6x6x1/4	3/4" x 12" x 1'-0"	(4) 3/4" DIA x 1'-6" EMBED
C2	HSS6x6x1/4	3/4" x 10" x 1'-0"	(4) 3/4" DIA x 1'-6" EMBED
C3	HSS6x4x1/4	3/4" x 10" x 1'-0"	(4) 3/4" DIA x 1'-6" EMBED
C4	EXISTING COLUMN		

STRUCTURAL FOUNDATION SCHEDULE			
MARK	FOOTING SIZE	DEPTH	REINFORCEMENT
F1	EXISTING PIER	FIELD VERIFY	
2-HP	2'-6" x 5'-6"	2'-8"	(6) #5 EACH WAY, HOOK EACH END, T&B
3-HP	5'-2" x 5'-6"	2'-8"	(6) #5 X 3 WAYS, HOOK EACH END, T&B



A1 FOUNDATION PLAN
1/8" = 1'-0" RE: A23/S500

1/8" = 1'-0" RE: A23/S500



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Addendum #3

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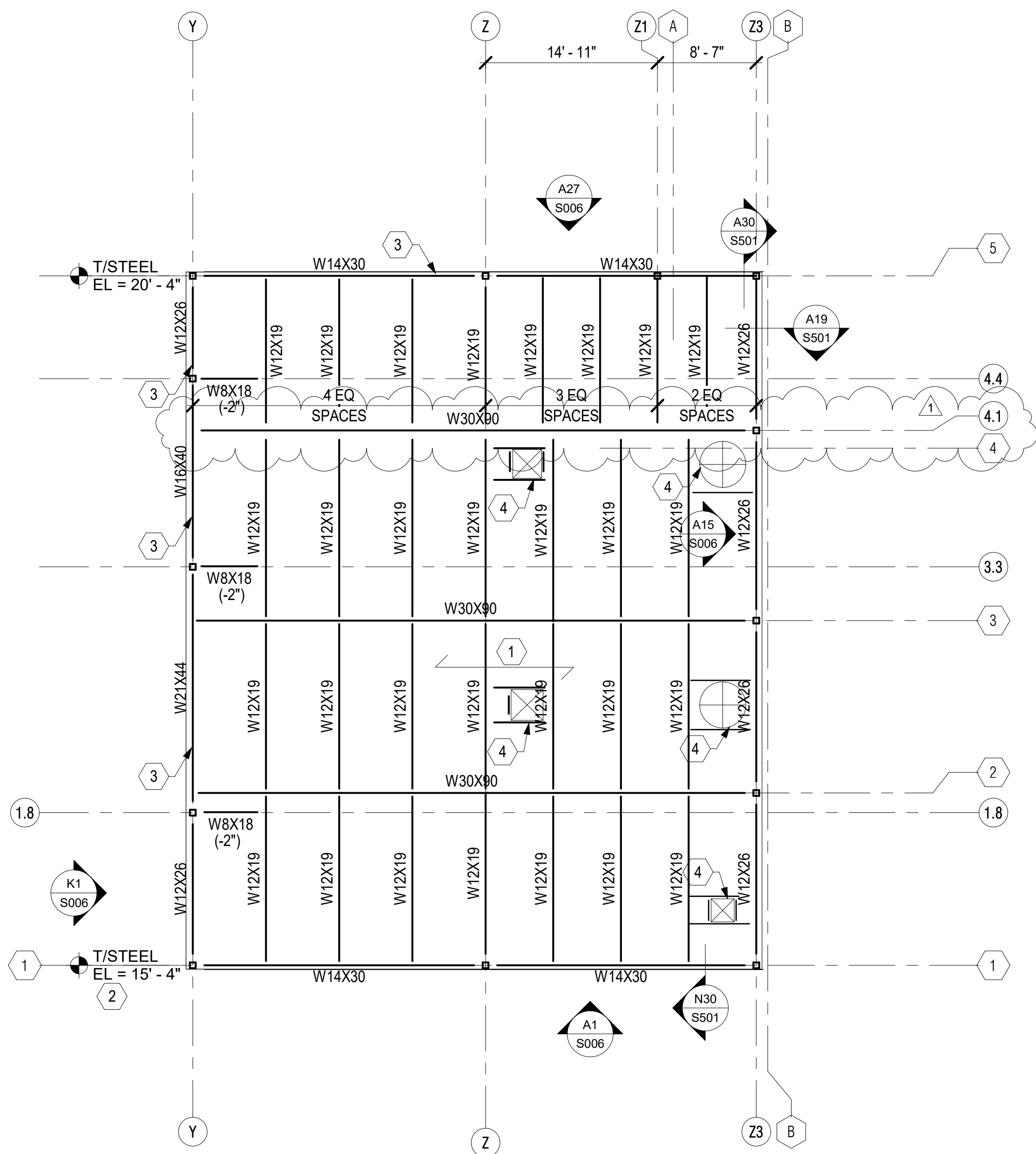
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MO# E-2000155328

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Profession Name: Architectural Corp.
Licensee Number: 000377

FRAMING PLAN

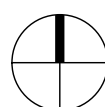
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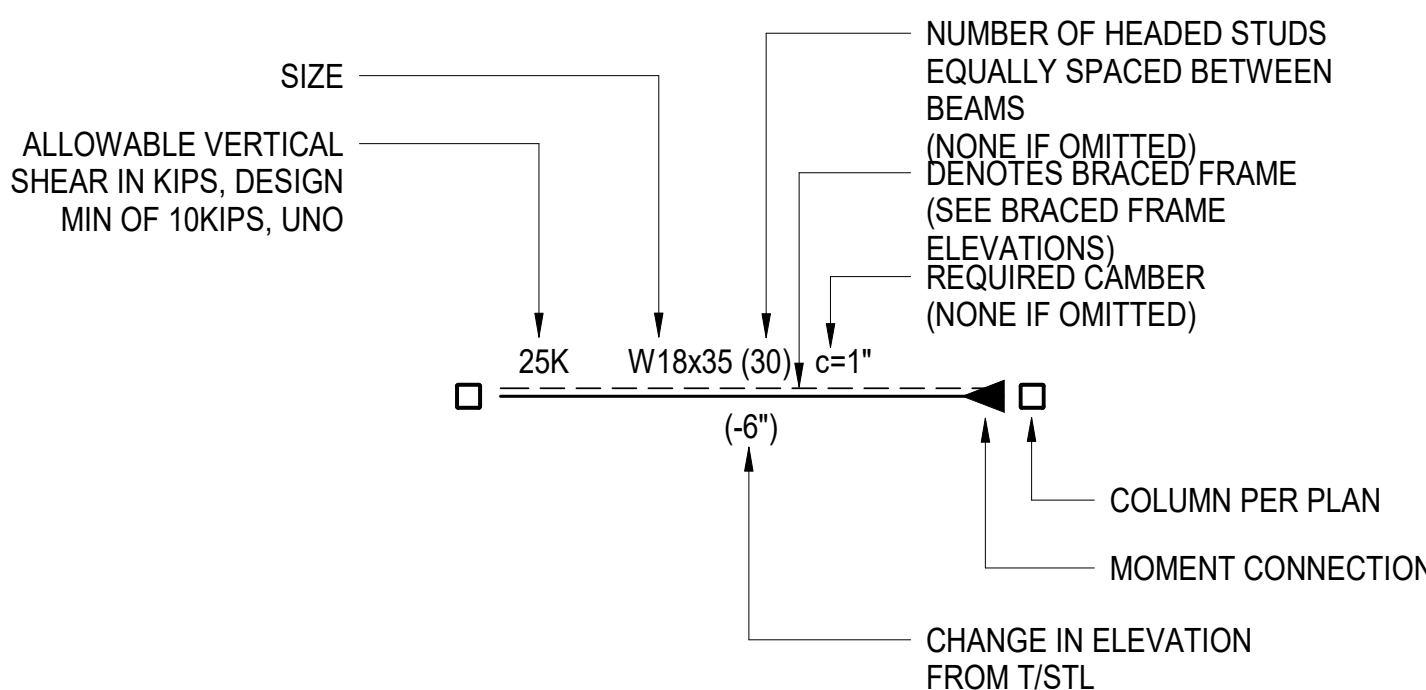


A1 **FRAMING PLAN**
1/8" = 1'-0" RE: /

1/8" = 1'-0" RE: /



STEEL FRAMING LEGEND:



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KATHLEEN J. HAGEN

REGISTERED PROFESSIONAL ENGINEER

NUMBER E-2000155328

9.25.2021

Kathleen J Hagen

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Profession Name: Architectural Corp.

Licensee Number: 000377

SECTIONS & DETAILS

S500

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The figure contains seven foundation section drawings, each with a title and a scale of 3/4" = 1'-0".

- U23 SECTION:** Shows a cross-section of a foundation wall and footing. Labels include: DEMO EXIST CONC CURB. DOWELS TO REMAIN RE: ARCH, #4 CONT, #4 x 6'-0" @ 24" OC, SLAB AND REINF PER PLAN, #6x 1'-6" @ 24" OC DOWEL TO FOOTING, EXIST STRUC, CONT GRADE BEAM AND REINF PER PLAN. Scale: 3/4" = 1'-0" RE: A1/S100.
- U30 SECTION:** Shows a cross-section of a foundation wall and footing. Labels include: EXISTING STRUCTURE, #4 CONT, #4 x 6'-0" @ 24" OC, SLAB AND REINF PER PLAN, CONT GRADE BEAM AND REINF PER PLAN. Scale: 3/4" = 1'-0" RE: A1/S100.
- N30 SECTION:** Shows a cross-section of a foundation wall and footing. Labels include: CL, #4 CONT, #4 x 6'-0" @ 24" OC, SLAB AND REINF PER PLAN, CONT GRADE BEAM AND REINF PER PLAN. Scale: 3/4" = 1'-0" RE: A1/S100.
- G23 SECTION:** Shows a cross-section of a foundation wall and footing. Labels include: EXISTING STRUCTURE, COLUMN AND BASE PLATE PER PLAN, FOUNDATION PLAN 0", 1 1/4 x 1/4 SHIM PL CONT WELD, L2 1/2 x 1 1/2 x 1/4 w/ 3/8" DIA x 4" HAS @ 16" OC (4 SIDES), CONTINUE GRADE BEAM REINF PER PLAN, SLAB AND REINF PER PLAN. Scale: 1" = 1'-0" RE: A1/S100.
- G30 SECTION:** Shows a cross-section of a foundation wall and footing. Labels include: FACADE RE: ARCH, SLAB RE: CIVIL, CONTINUE GRADE BEAM REINF, COLUMN AND BASE PLATE PER PLAN, SLAB AND REINF PER PLAN, FOUNDATION PLAN 0", HELICAL PILE PER PLAN. Scale: 3/4" = 1'-0" RE: A1/S100.
- A23 SECTION:** Shows a cross-section of a foundation wall and footing. Labels include: 1 1/4 x 1/4 SHIM PL CONT WELD, L2 1/2 x 1 1/2 x 1/4 w/ 3/8" DIA x 4" HAS @ 16" OC (4 SIDES), CLEAR DIMENSIONS PER MANUFACTURER (TYP), 8" CONC WALL #4 @ 12" OC EW, SLAB AND REINF PER PLAN. Scale: 3/4" = 1'-0" RE: A1/S100.
- A30 SECTION:** Shows a cross-section of a foundation wall and footing. Labels include: FACADE RE: ARCH, SLAB RE: CIVIL, #4 CONT, SLAB AND REINF PER PLAN, FOUNDATION PLAN 0", #4 x 6'-0" @ 24" OC, CONT GRADE BEAM AND REINF PER PLAN, PER PLAN. Scale: 3/4" = 1'-0" RE: A1/S100.

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Kathleen J Hagen
MO# E-2000155328

License Name: Berkebile Nelson Immenschuh McDowell Incorporated
Profession Name: Architectural Corp.
Licensee Number: 000377

SECTIONS & DETAILS

S501

MCC Longview HT Addition/Renovation

500 SW Longview Road
Lee's Summit, MO 64081 Project No: 20008.00

PERMIT/BID DOCUMENTS

Issued: September 23, 2021

[illegible]

Sept. 23, 2021

License Name: Gregory J. Fendler
 Profession Name: MEP Consulting Engineer
 Licensee Number: PE-2006037230

SPECIFICATIONS

MEP102

[illegible]

KH Engineering Group **Structural Engineer**
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Certificate of Authority

Associates **MEPF Engineer**
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Seal



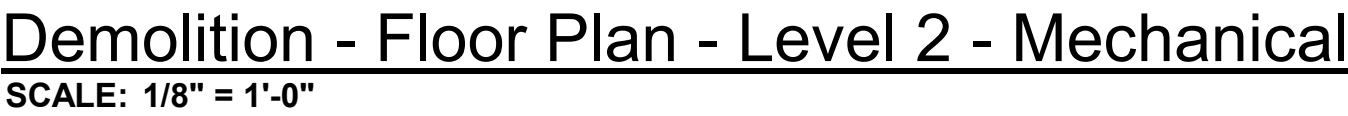
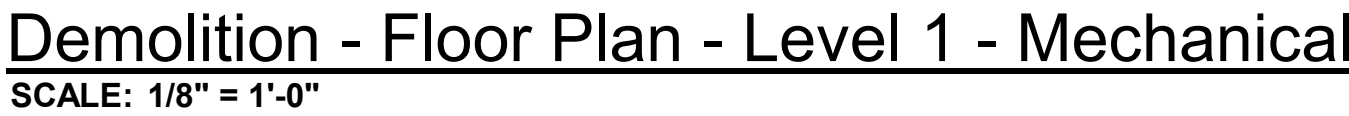
The seal is circular with a black border. Inside the border, the text "STATE OF MISSOURI" is at the top and "PROFESSIONAL ENGINEER" is at the bottom, separated by stars. In the center, the name "GREGORY J. FENDLER" is written above the license number "NUMBER PE-2000037220". A blue ink signature is written across the seal.

Sept. 23, 2021

DM100

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DM01	REMOVE EXISTING CONDENSING UNIT AND ALL ASSOCIATED APPURTANCES, PIPING, ETC.
DM02	REMOVE EXISTING REFRIGERANT PIPING BACK TO ASSOCIATED AIR HANDLING UNIT ON SECOND FLOOR. REMOVE ALL ASSOCIATED HANGERS, ETC. AND PATCH PENETRATIONS TO MATCH EXISTING.
DM03	REMOVE EXISTING COOLING COIL. RETAIN PIPING FOR RECONNECTION TO NEW COIL. RE-NEW WORK PLAN.
DM04	REMOVE EXISTING HOT WATER UNIT HEATER AND CAP HEATING HOT WATER PIPING.
DM05	EXISTING FAN POWERED BOX TO REMAIN.
DM06	REMOVE PORTION OF EXISTING DUCTWORK AS INDICATED. RE-NEW WORK PLAN FOR RECONNECTION.
DM07	REMOVE EXISTING DIFFUSER AND ASSOCIATED BRANCH DUCTWORK AND TAKE-OFF AS INDICATED. PATCH/INSULATE EXISTING DUCTWORK TO MATCH EXISTING.
DM08	REMOVE EXISTING DIFFUSER AND ASSOCIATED BRANCH DUCTWORK AS INDICATED.
DM09	REMOVE EXISTING RETURN GRILL.
DM10	ALTERNATE #2. REMOVE AND REPLACE EXISTING AIR HANDLING UNIT IN ITS ENTIRETY. MEASURE EXISTING SUPPLY AIR AND OUTSIDE AIR FLOW/PRESSURE TO REMOVE. REMOVE ALL CONTROLS AND RETAIN FOR REINSTALLATION ON NEW UNIT. RETAIN ALL PIPING AND DUCTWORK FOR RECONNECTION. RE-NEW WORK PLAN.
DM11	REMOVE AND RELOCATE EXISTING THERMOSTAT. RE-NEW WORK PLAN.
DM12	REMOVE EXISTING PLUMBING STUBOUTS BACK INTO WALL AND CAP. PATCH/PAINT WALL TO MATCH EXISTING.



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L | F a Project No. 21.6807.00
Alan W. Lankford - Mechanical Engineer - MO #02002224
CDA #2020051189

MCC Longview HT Addition/Renovation

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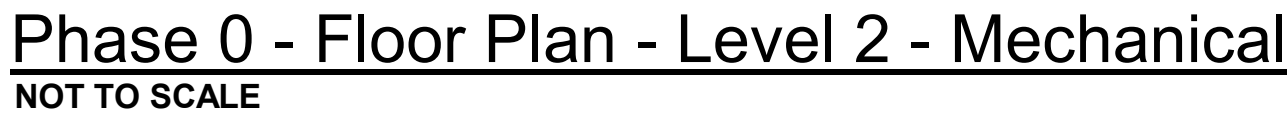
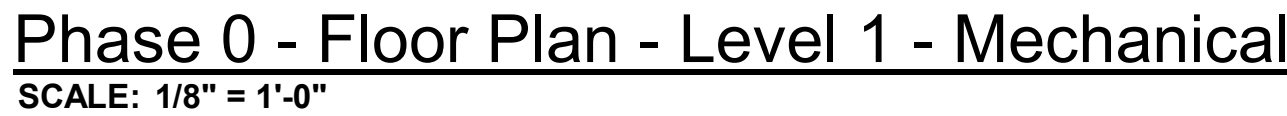
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Phase 0 - Floor Plan - Level 1 & 2 - Mechanical

M100

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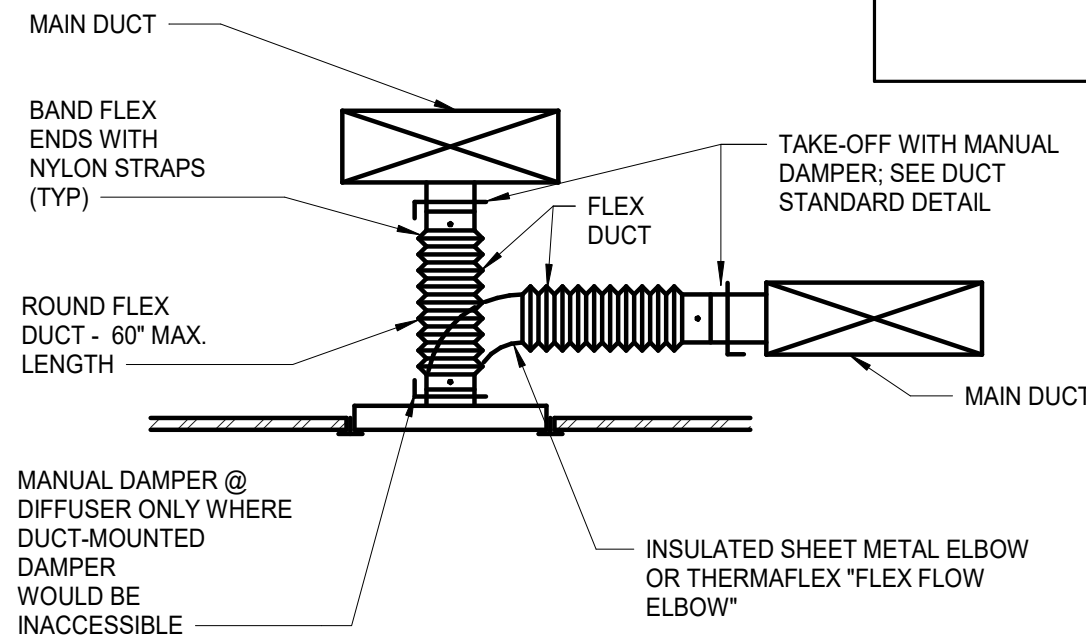
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L|F+a Project No. 21.6807.00
Alan W. Lankford - Mechanical Engineer - MO #024824
COA #2000051198

AIR HANDLING UNIT SCHEDULE

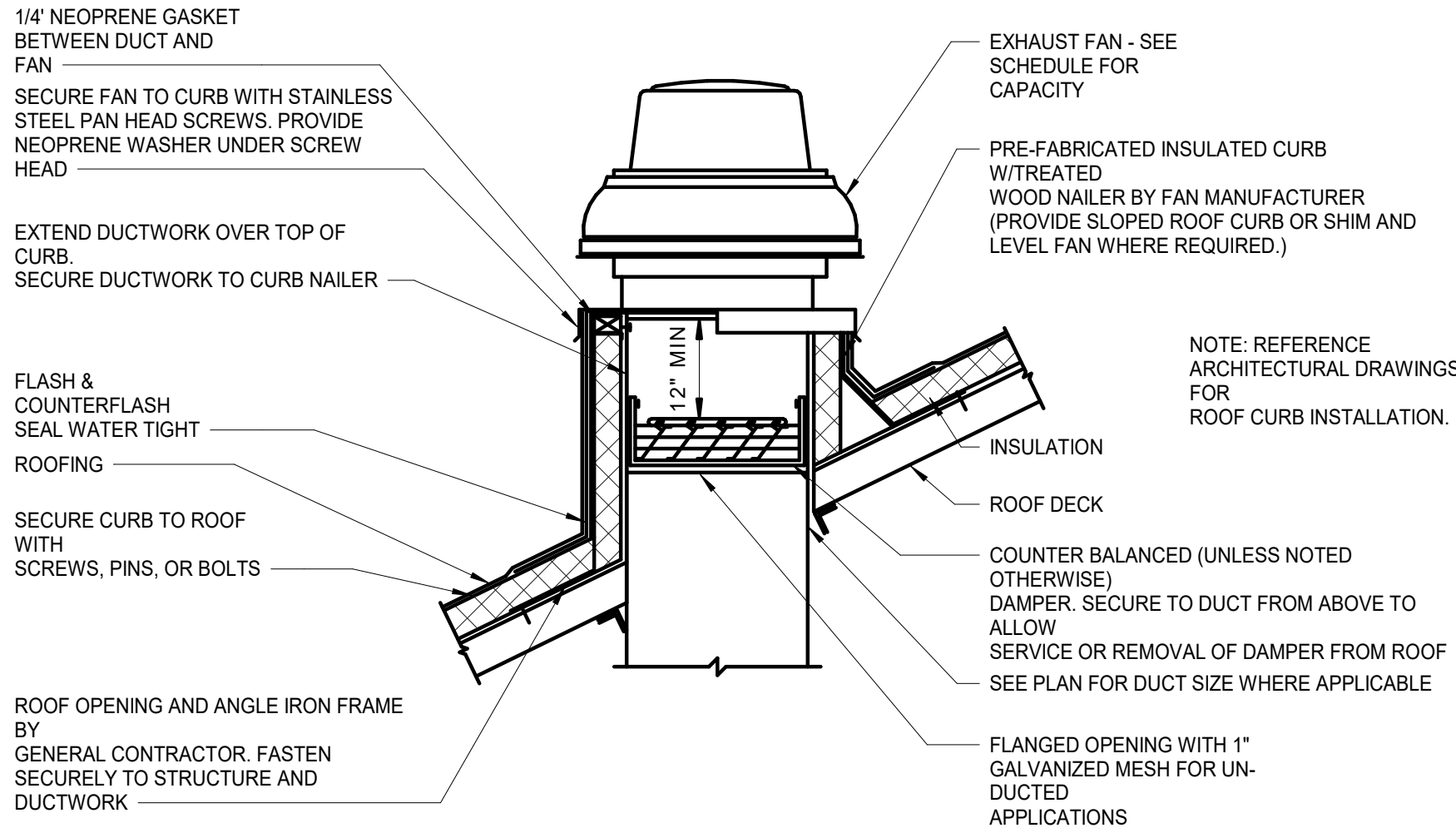
MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	FAN TYPE	FAN SIZE	FAN RPM	EXT. S.P. (IN W.G.)	TOTAL S.P. (IN W.G.)	COOLING COIL				TOTAL MBH	SENS. MBH	E.D.B. (°F)	L.D.B. (°F)	TOTAL MBH	ELECTRICAL			NOTES
									E.D.B. (°F)	E.W.B. (°F)	L.D.B. (°F)	L.W.B. (°F)						VOLT	ø	HZ	
AHU-1	CARRIER	39MN	9000	AIRFOIL	17W	2534.0	2	3.95	80	67.0	53.1	52.3	400.8	264.3	60	91.6	316	480	3	60	1,2,3

NOTES: 1. PROVIDE UNDER ALTERNATE #2. PROVIDE WITH VARIABLE FREQUENCY DRIVE, BACNET INTERFACE, RETURN AIR SENSOR, SUPPLY AIR SENSOR AND AIRFLOW SWITCH.
2. CONTRACTOR SHALL FIELD VERIFY COIL CONNECTION HAND, ACCESS DOOR SIDE, FAN MOTOR SIDE AND FAN CONFIGURATION PRIOR TO ORDERING.
3. PROVIDE WITH SUPPLY AND RETURN AIR SMOKE DETECTORS.

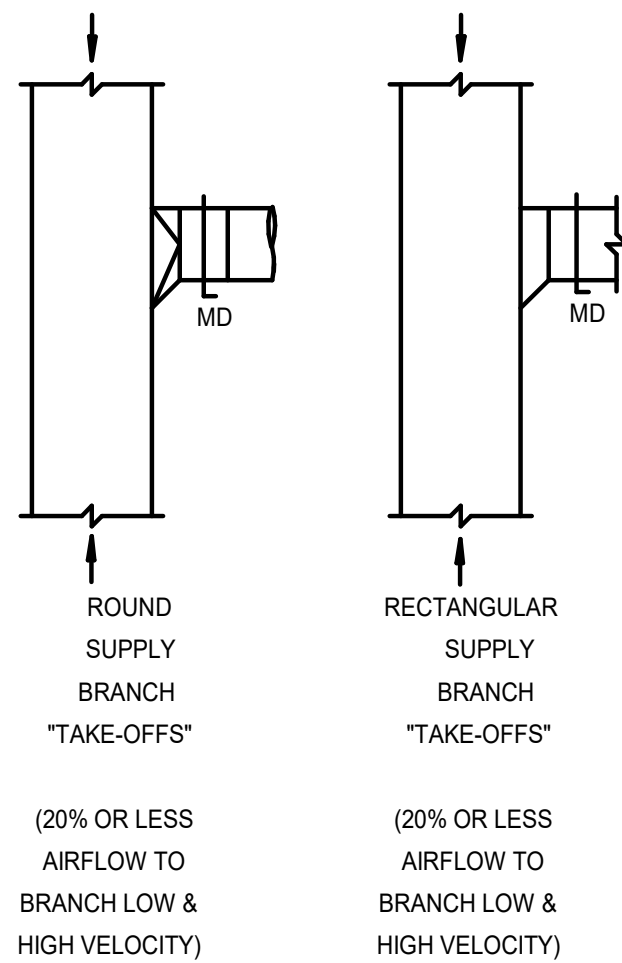


NOTE:
1. BRANCH DUCT RUNOUT TO DIFFUSER SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE INDICATED ON PLAN.
2. IN LOCATIONS WHERE TAKEOFFS ARE INSTALLED ABOVE HARD OR NON-ACCESSIBLE CEILINGS CONTRACTOR TO PROVIDE SCREWS TO PREVENT BRANCH DUCT FROM SLIDING OFF FITTING. INSPECT PRIOR TO CEILING INSTALLATION.

DIFFUSER DETAIL NOT TO SCALE



ROOF MOUNTED EXHAUST FAN DETAIL NOT TO SCALE



DUCT STANDARDS NOT TO SCALE

FAN POWERED BOX SCHEDULE

MARK NO.	MANUFACTURER	MODEL	FAN SIZE	INLET SIZE	MAX. AIR VALVE COOLING CFM	MIN. AIR VALVE COOLING CFM	MAX. AIR VALVE HEATING CFM	MAX. NC @1\"WC	150°F EWT /150°F LWT			ELECTRICAL			NOTES
									FLOW (GPM)	WPD (FT)	CAPACITY (MBH)	VOLT	ø	HZ	
FPB-1	PRICE	FDV-5000	20	8"	800	75	525	40	3.0	0.5	19.8	120	1	60	1

NOTES: 1. PROVIDE WITH DISCONNECT SWITCH, BACNET CONTROLLER, HOT WATER COIL, 3-WAY CONTROL VALVE, AIR PROOF SWITCH, SPRING HANGER BRACKETS, DISPOSABLE PLEATED RETURN AIR FILTER, SINGLE POINT POWER CONNECTION AND 24V TRANSFORMER FOR TEMPERATURE CONTROLS.

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL	DIAMETER IN.	AIRFLOW (CFM)	# OF AIRFOILS	RPM	SOUND LEVEL (DBA)	COLOR	ELECTRICAL			WATTS	NOTES
									VOLT	ø	HZ		
CF-1	BIG ASS FANS	ES6	72	9959	6	115	<35	WHITE	120	1	60	23.7	1
CF-2	BIG ASS FANS	ES6	72	9959	6	115	<35	WHITE	120	1	60	23.7	1
CF-3	BIG ASS FANS	ES6	72	9959	6	115	<35	WHITE	120	1	60	23.7	1

NOTES: 1. PROVIDE WITH FIXED WALL MOUNT CONTROLLER, UNIVERSAL MOUNT AND 42" DOWNROD.

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	S.P. (IN W.G.)	FAN TYPE	RPM	DRIVE	ELECTRICAL			HP	NOTES
									VOLT	ø	HZ		
EF-1	GREENHECK	G-130	DOWNBLAST	1500	0.125	FC	1140	DIRECT	120	1	60	1/6	1

NOTES: 1. PROVIDE WITH SLOPED ROOF CURB, DISCONNECT SWITCH, SPEED CONTROLLER, HINGED CURB CAP, HINGED BASE, CURB SEAL, CURB EXTENSION, BIRD SCREEN, AND DAMPER.

CONDENSING UNIT SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TOTAL (MBH)	AMB. (°F)	SAT. SUCTION TEMP (°F)	STAGES	EER	ELECTRICAL			NOTES
								VOLT	ø	HZ	
CU-1	CARRIER	38APD040	448.3	100	45	2	10.40	480	3	60	1

NOTES: 1. PROVIDE WITH DISCONNECT SWITCH, DIGITAL COMPRESSOR, LOW SOUND FAN AND COMPRESSOR, ALUMINUM FIN/COPPER TUBE CONDENSER COILS, BACNET INTERFACE, COMPRESSOR CRANKCASE HEATER, LOW AMBIENT KIT, COMPRESSOR TIME-OFF CONTROL, AND HAIL GUARDS.

RADIANT HEATER SCHEDULE

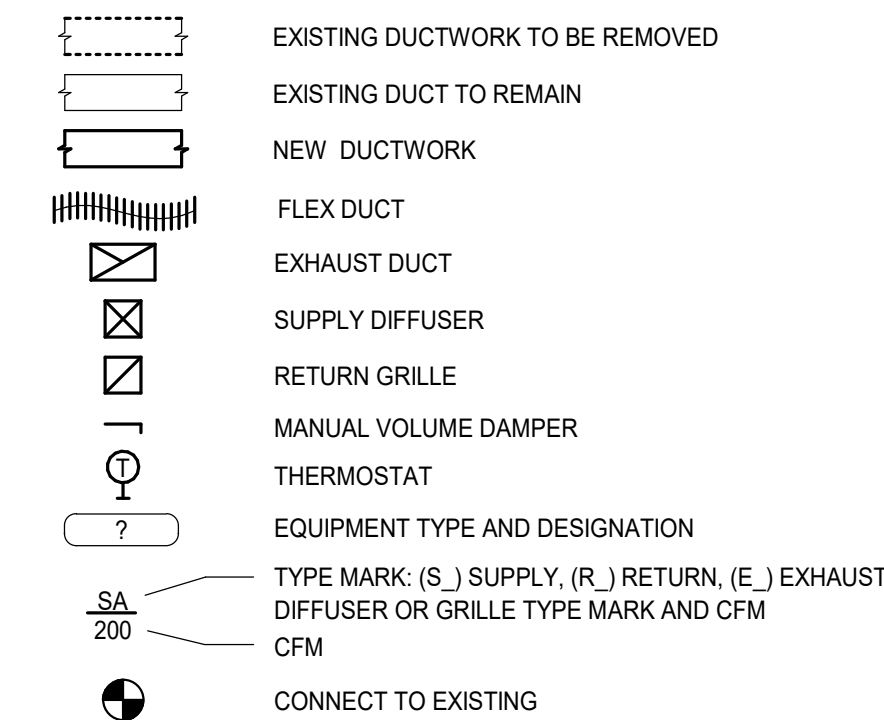
MARK NO.	MANUFACTURER	MODEL	TYPE	INPUT (MBH)	ELECTRICAL			NOTES
					VOLT	ø	HZ	
IR-1 THRU 10	SPACE RAY	RSCA3-N5	CERAMIC	26	120	1	60	1

NOTES: 1. PROVIDE WITH 24V DIRECT SPARK IGNITION, 120/24V TRANSFORMER, REMOTE THERMOSTAT (RE: DRAWINGS), ALUMINUM REFLECTOR, GAS SHUT-OFF SAFETY CONTROL, AND 45 DEG. MOUNTING HARDWARE.

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING DUCTWORK SHOWN ON DRAWINGS IS SCHEMATIC AND DOES NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. MECHANICAL CONTRACTOR SHALL REMOVE, PATCH AIR TIGHT AND REINSULATE ALL DUCTWORK TAPS NOT REUSED WITH SAME MATERIAL AS EXISTING DUCTWORK.
- G. ALL REMOVED DEVICES THAT ARE BEING REUSED FOR NEW CONSTRUCTION SHALL BE CLEANED OF ALL DIRT AND STORED ON SITE.
- H. MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFM'S SHOWN ON PLANS.
- I. ALL THERMOSTATS SHALL BE MOUNTED TO MATCH BUILDING STANDARDS UNLESS OTHERWISE NOTED.
- J. MECHANICAL CONTRACTOR SHALL PROVIDE NEW 1" FAIR TYPE PLEATED FILTERS ON ALL TERMINAL BOXES WHICH ARE IN PROJECT SCOPE OF WORK PRIOR TO BALANCING. PROVIDE TEMPORARY FILTERS ON RETURN AIR OPENINGS DURING CONSTRUCTION.
- K. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND RETAINING ALL TEMPERATURE CONTROLS FROM EXISTING UNITS, FOR REINSTALLATION UNDER NEW WORK. UPON REINSTALLATION, CONTRACTOR SHALL VERIFY PROPER OPERATION AND NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING IF PROBLEMS ARE FOUND.
- L. ALL DUCTWORK, DIFFUSERS, TERMINAL UNITS, ETC. ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- M. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- N. MECHANICAL CONTRACTOR SHALL COORDINATE ALL TEMPERATURE CONTROL WORK WITH BUILDING OWNER. BUILDING SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES.
- O. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- P. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50R2C2UL OR EQUIVALENT.

MECHANICAL SYMBOLS



500 SW Longview Road
Lee's Summit, MO 64081
Project 20008.00
No:

PERMIT/BID DOCUMENTS

Issued September 23, 2021

Rev. #	Description	Date Issued
1	Addendum #3	10/25/2021

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License Name: Gregory J. Fendler
Profession Name: MEP Consulting Engineers
Licensee Number: PE-2006037230

MECHANICAL DETAILS, SCHEDULES, GENERAL NOTES, AND SYMBOLS

M200

MCC Longview HT Addition/Renovation

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Issued: September 23, 2021

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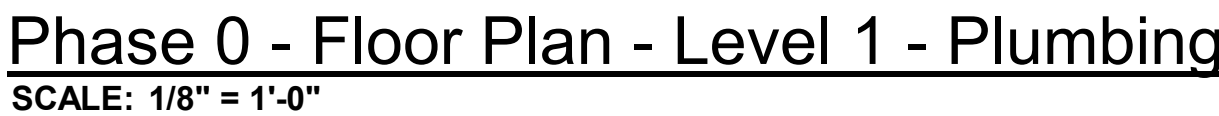
Sept. 23, 2021

Phase 0 - Floor Plan - Level 1 - Plumbing

P100

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P01	RELOCATED AIR COMPRESSOR. ROUTE DRAIN LINE TO FLOOR DRAIN AND INDIRECT WASTE.
P02	CONNECT NEW 1-1/2" COMPRESSED AIR PIPING TO EXISTING COMPRESSED AIR PIPING. FIELD VERIFY EXACT LOCATION.
P03	CONNECT NEW 4" WASTE PIPING TO EXISTING PIPING BELOW SLAB. (EXISTING PIPING DRAINS TO #4 PASTING SAND/LOI INTERCEPTOR). SAWCUT FLOOR AS REQUIRED AND PATCH TO MATCH EXISTING. FIELD VERIFY EXACT LOCATION/DEPTH PRIOR TO SAWCUTTING.
P04	ROUTE 3" VENT THRU ROOF. COORDINATE RISER LOCATION WITH WINDOW MULLIONS.
P05	CONNECT GAS PIPING TO INFRARED HEATER WITH GAS COCK, UNION AND DIRT LEG.
P06	ROUTE 1" COMPRESSED AIR PIPING UP WALL TIGHT TO STRUCTURE ABOVE. ANCHOR PIPING SECURELY TO WALL.
P07	ROUTE NEW GAS PIPING THRU EXISTING SHOP AREA AND CONNECT TO EXISTING 4" PIPING AT EAST END (APPROXIMATELY 100' AWAY). FIELD VERIFY EXACT ROUTING. COORDINATE NEW GAS LOAD WITH LOCAL UTILITY.
P08	CONNECT 1-1/2" COMPRESSED AIR PIPING TO COMPRESSED AIR REEL PROVIDED BY OTHERS.
P09	CONNECT NEW 3" GAS PIPING TO MAKE-UP AIR UNIT PROVIDED BY OTHERS. CONNECT GAS PIPING WITH GAS COCK, UNION AND DIRT LEG. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.



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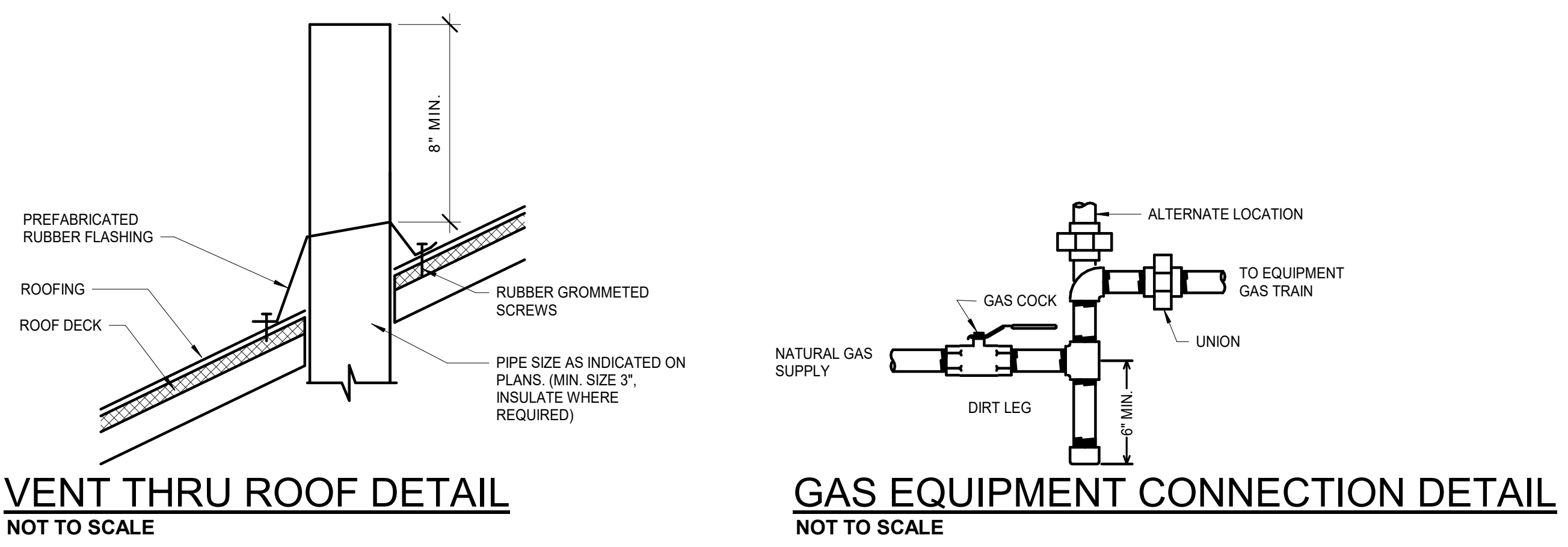
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PLUMBING FIXTURE SCHEDULE								
MARK NO.	FIXTURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	MINIMUM CONNECTION SIZE			
					CW	HW	WASTE	VENT
FD-1	FLOOR DRAIN	J.R. SMITH	2005YA-NB	GENERAL PURPOSE, DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, ROUND NICKEL BRONZE STRAINER, AND SEEPAGE OPENINGS. OUTLET SIZE PER PLANS. NOTE: PROVIDE WITH TRAP PRIMER CONNECTION WHERE REQUIRED BY LOCAL CODE OR AS INDICATED ON DRAWINGS.	-	-	2"	-
FD-2	FLOOR DRAIN	J.R. SMITH	2495T	HEAVY DUTY, DUCO CAST IRON BODY WITH CORROSION RESISTANT COATING, FLANGE AND FLASHING COLLAR, ROUND TRACTOR GRATE. OUTLET SIZE PER PLANS. NOTE: PROVIDE WITH TRAP PRIMER CONNECTION WHERE REQUIRED BY LOCAL CODE OR AS INDICATED ON DRAWINGS.	-	-	4"	-

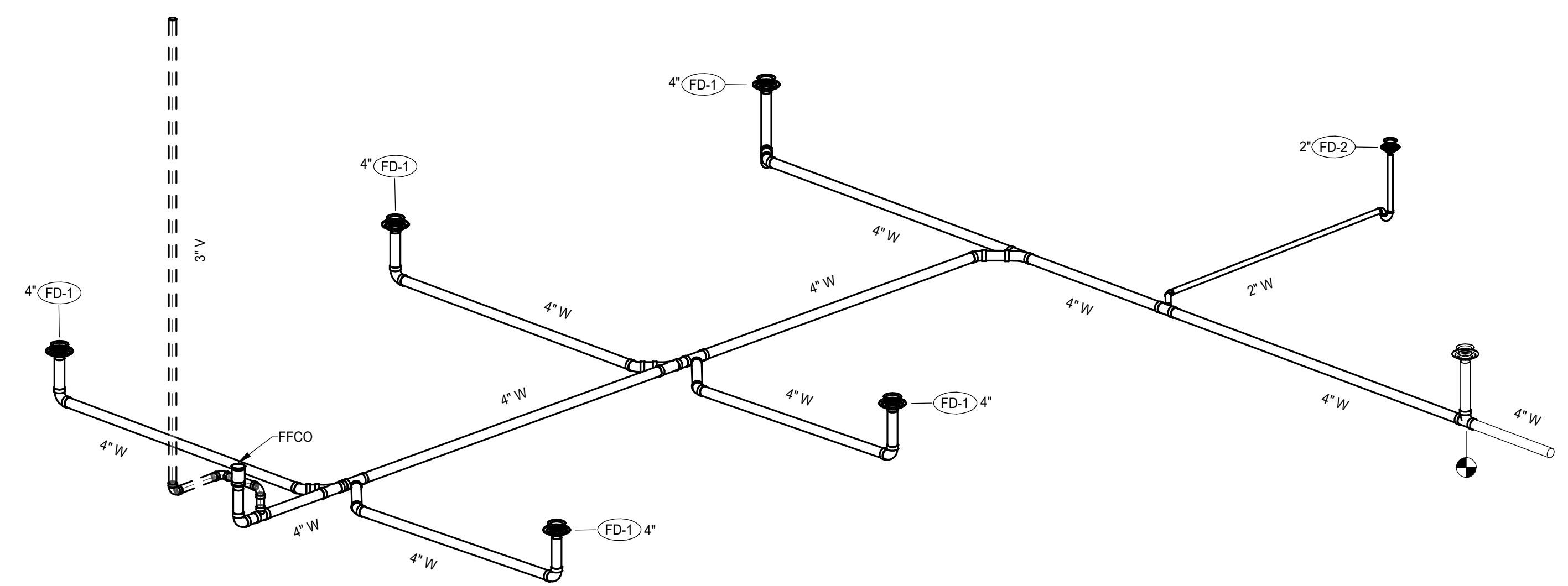
NOTE:
LOCATE VTR A MINIMUM OF 10' FROM ANY
BUILDING OPENINGS, MECHANICAL UNIT
INTAKES, RELIEF OR INTAKE HOODS



- GENERAL NOTES (TYPICAL ALL SHEETS)**
- A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC DOES NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.
- F. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.

PLUMBING SYMBOLS

- NEW PIPING
- CA COMPRESSED AIR
- NG NATURAL GAS
- V SANITARY VENT ABOVE GRD./FLOOR ABOVE
- V SANITARY VENT BELOW GROUND
- W SANITARY WASTE BELOW GROUND
- GAS SHUT-OFF COCK
- FLOOR DRAIN
- PIPE DROP/ PIPE RISE
- BOTTOM OUTLET TEE
- TOP OUTLET TEE
- FFCO FINISHED FLOOR CLEANOUT
- VTR VENT THROUGH ROOF
- L-1 EQUIPMENT TYPE AND DESIGNATION
- ETR EXISTING TO REMAIN
- CONNECT TO EXISTING



WASTE/VENT RISER DIAGRAM
NOT TO SCALE

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Alan W. Lankford - Mechanical Engineer - MO #024524
CDA #000601188

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STATE OF MISSOURI
GREGORY J. FENDLER
NUMBER PE-2006037220
QUAL. EXPI. 09/23/2021
Sept. 23, 2021

License Name: Gregory J. Fendler
Profession Name: MEP Consulting Engineers
License Number: PE-2006037230

PLUMBING DETAILS, SCHEDULES, GENERAL NOTES, AND SYMBOLS

P200

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MEPF Engineer

FIRE PROTECTION DESIGN CRITERIA

- A. ENTIRE BUILDING AS SHOWN ON DRAWINGS IS CURRENTLY PROVIDED WITH A WET TYPE SPRINKLER SYSTEM. MODIFY SYSTEM AS NECESSARY FOR NEW WALL LAYOUTS AND IN COMPLIANCE WITH THE RULES AND REGULATIONS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES, THE OWNER'S INSURANCE COMPANY AND NFPA 13.
- B. FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK REQUIRED FOR STRICT COMPLIANCE.
- C. NEW FIRE PROTECTION PIPING AND FITTINGS SHALL MATCH EXISTING, OR PROVIDE SCHEDULE 40 FOR 2" AND SMALLER WITH THREADED ENDS AND SCHEDULE 10 FOR 1-1/2" AND LARGER WITH ROLL-GROOVED ENDS AND GROOVED JOINTS. ALL PIPING IN AREAS WITH CEILINGS SHALL BE RUN CONCEALED WITH NO EXCEPTIONS UNLESS COORDINATED WITH ARCHITECT AND ENGINEER. PIPE SIZES SHOWN ON PLANS FOR INFORMATION ONLY. VERIFY BY HYDRAULIC CALCULATIONS.
- D. NEW FIRE SPRINKLERS SHALL MATCH EXISTING IN TYPE, STYLE AND APPEARANCE. ANY REMOVED/RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. CONTRACTOR RESPONSIBLE FOR FIELD VERIFICATION OF ALL INFORMATION.
- E. ALL SPRINKLERS IN LAY-IN CEILINGS ARE TO BE CENTERED ±1/2" IN 2'x2' PORTION OF TILE. ALL SPRINKLERS IN GYP-BOARD CEILINGS ARE TO BE CENTERED ±1/2" WITH LIGHT FIXTURES AND ALIGNED WITH ALL OTHER DEVICES IN CEILING IN BOTH DIRECTIONS. COORDINATE WITH ARCHITECT.
- F. FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS SO AS TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH REFLECTED CEILING PLAN, DUCTWORK LAYOUT AND LIGHTING LAYOUT. ALL COORDINATION SHALL TAKE PLACE PRIOR TO INSTALLATION.
- G. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN PERMITS AND CERTIFICATES OF INSPECTIONS RELATIVE TO THIS WORK.
- H. CONTRACTOR SHALL OBTAIN CURRENT FIRE HYDRANT FLOW TEST DATA AND USE FOR SYSTEM HYDRAULIC CALCULATIONS. USE DATA TO DESIGN SYSTEMS ACCORDINGLY BASED ON AVERAGE NUMBERS PLUS 10% SAFETY.
- I. PREPARE AND SUBMIT SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS AS REQUIRED. ALL INFORMATION SHOWN ON FIRE PROTECTION DRAWINGS SHALL BE INCLUDED ON THE SHOP DRAWINGS.
- J. CONTRACTOR TO BE RESPONSIBLE FOR MAKING FINAL COORDINATION WITH STRUCTURE AND ALL OTHER TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. ALL ELEVATIONS OF PIPE MUST BE SHOWN ON SHOP DRAWINGS.
- K. ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.
- L. NFPA 13 - 2016 ED - 7.1.5 A SINGLE AIR VENT WITH A CONNECTION SHALL BE PROVIDED ON EACH WET PIPE SYSTEM. THE AIR VENT SHALL BE LOCATED NEAR A HIGH POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED FROM THAT PORTION OF THE SYSTEM BY ONE OF THE FOLLOWING METHODS: MANUAL VALVE, MINIMUM 1/2 (15MM) SIZE, OR AUTOMATIC AIR VENT.
- M. ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.
- N. PROVIDE AUXILIARY DRAINS AS REQUIRED BY NFPA 13. COORDINATE LOCATIONS WITH OWNER. AUXILIARY DRAINS MUST BE SHOWN ON SHOP DRAWINGS.
- O. SPRINKLER SYSTEM SHALL BE TESTED AND DRAINED PER NFPA STANDARDS AND LOCAL AND STATE AUTHORITY HAVING JURISDICTION.COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES SHALL BE FORWARDED TO OWNER.
- P. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH FIRE ALARM PANEL AND SUPERVISION OF NEW SPRINKLER TAMPER AND FLOW SWITCHES.
- Q. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- R. SPRINKLER HEAD PLACEMENT SHALL BE OUT OF THE SWING AREA OF DOORS TO AVOID CONFLICT WITH TALL DOORS.

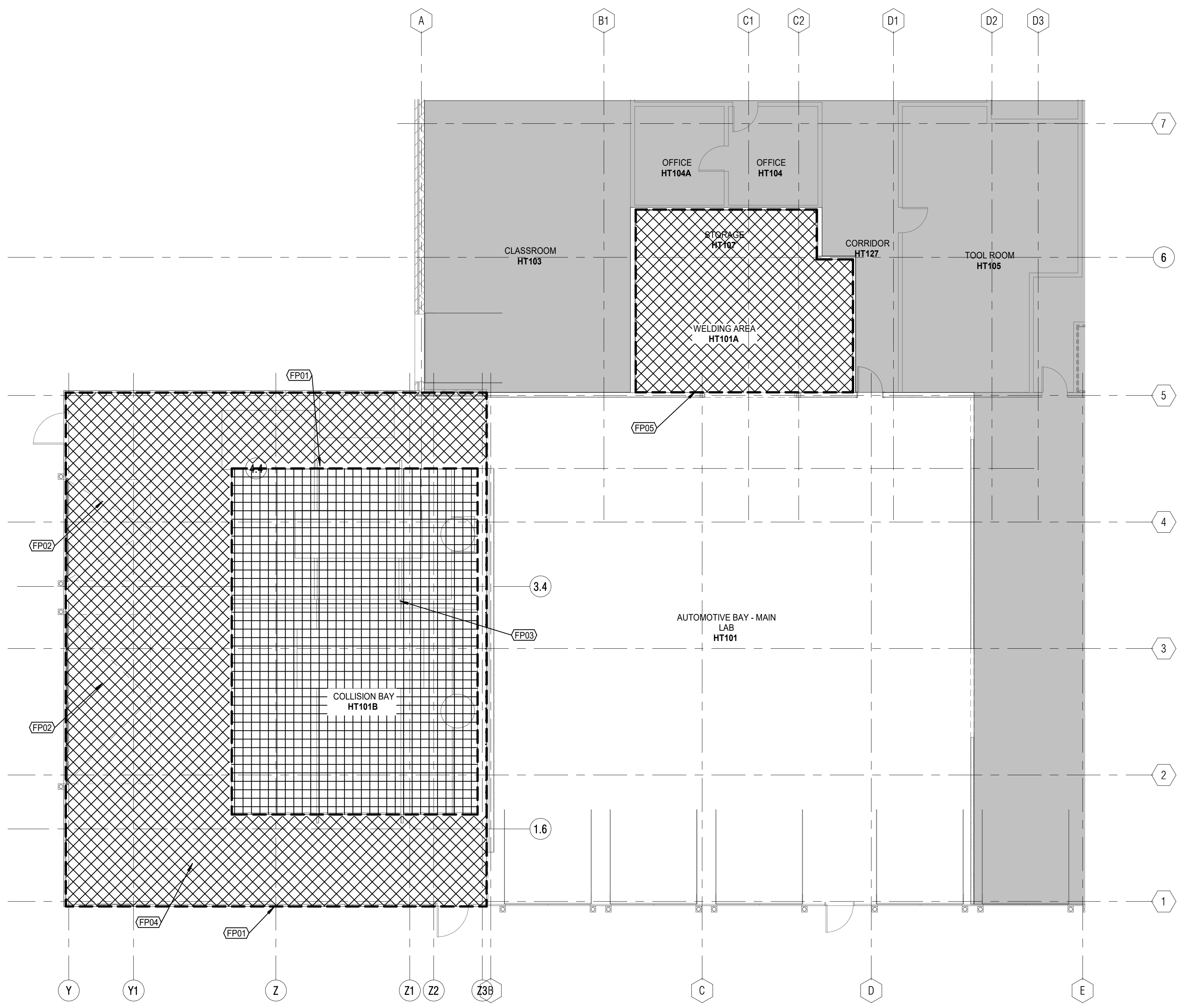
FIRE PROTECTION LEGEND

RECONFIGURE EXISTING BASE BUILDING FIRE SPRINKLER LAYOUT WITHIN THIS AREA IN ORDER TO PROVIDE PROPER COVERAGE PER NFPA 13 AND LOCAL AUTHORITIES. ALL REMOVED / RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. NEW SPRINKLERS TO MATCH EXISTING. REFER TO REFLECTED CEILING PLANS FOR COORDINATION WITH LIGHTS, DIFFUSERS, EXIT SIGNS, ETC.

- LIGHT HAZARD - PROVIDE PROPER COVERAGE PER NFPA 13 (0.1 GPM PER 1500 SF) PLUS 100 GPM HOSE STREAM ALLOWANCE.
- ORDINARY HAZARD GROUP 1 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.15 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.
- ORDINARY HAZARD GROUP 2 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.2 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.
- PROTECT PAINT BOOTHS WITH AUTOMATIC SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13 - 22.4 FOR EXTRA HAZARD (GROUP 2) OCCUPANCIES (0.40/2500 SF) OR AREA OF PAINT BOOTH. PROVIDE SEPARATE CONTROL VALVE FOR FIRE SPRINKLERS THAT IS OPERABLE FROM THE FLOOR LEVEL.

FLOOR PLAN NOTES

- FP01 EXTEND EXISTING FIRE SPRINKLER SYSTEM INTO NEW BUILDING ADDITION OF APPROXIMATELY 3,028 SF. PROVIDE SEPARATE CONTROL VALVE AND FEED MAIN FROM EXISTING FIRE SPRINKLER RISER TO SERVE NEW ADDITION WITH TAMPER & FLOW SWITCHES.
- FP02 PROTECT BENEATH OVERHEAD DOORS IN ACCORDANCE WITH NFPA 13.
- FP03 PROTECT PAINT BOOTHS PER NFPA 13, SECTION 22.4 PROTECT SPRINKLERS IN BOOTHS WITH CELLOPHANE BAGS IN ACCORDANCE WITH NFPA 13 6.2.4.
- FP04 COORDINATE LOCATIONS OF FIRE SPRINKLERS WITH HVLS FANS IN ACCORDANCE WITH NFPA 13, 12.1.4.
- FP05 MODIFY EXISTING SPRINKLER IN THIS AREA FOR NEW WELDING AREA. WELDING BOOTHS USE CO2 AND NOT OXYGEN-FUEL OR ANY FLAMMABLE GASES. PROTECT PER NFPA 13 FOR OH2 - METAL WORKING.



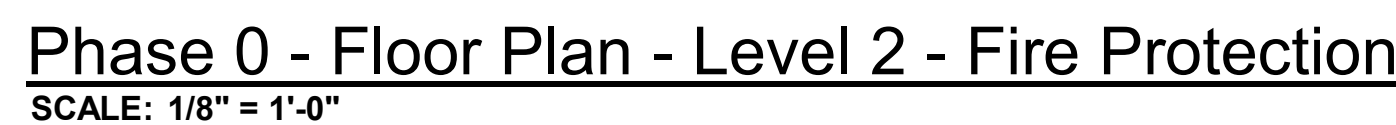
Phase 0 - Floor Plan - Level 1 - Fire Protection
SCALE: 1/8" = 1'-0"

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L1F-a Project No. 21-6887-00
Alan W. Lankford - Mechanical Engineer - MO #024824
CDA #000601188

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Profession Name: MEP Consulting Engineers
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FP06 RECONFIGURE SPRINKLERS IN AREA FOR NEW CEILING LOCATIONS



Phase 0 - Floor Plan - Level 2 - Fire Protection

FP101

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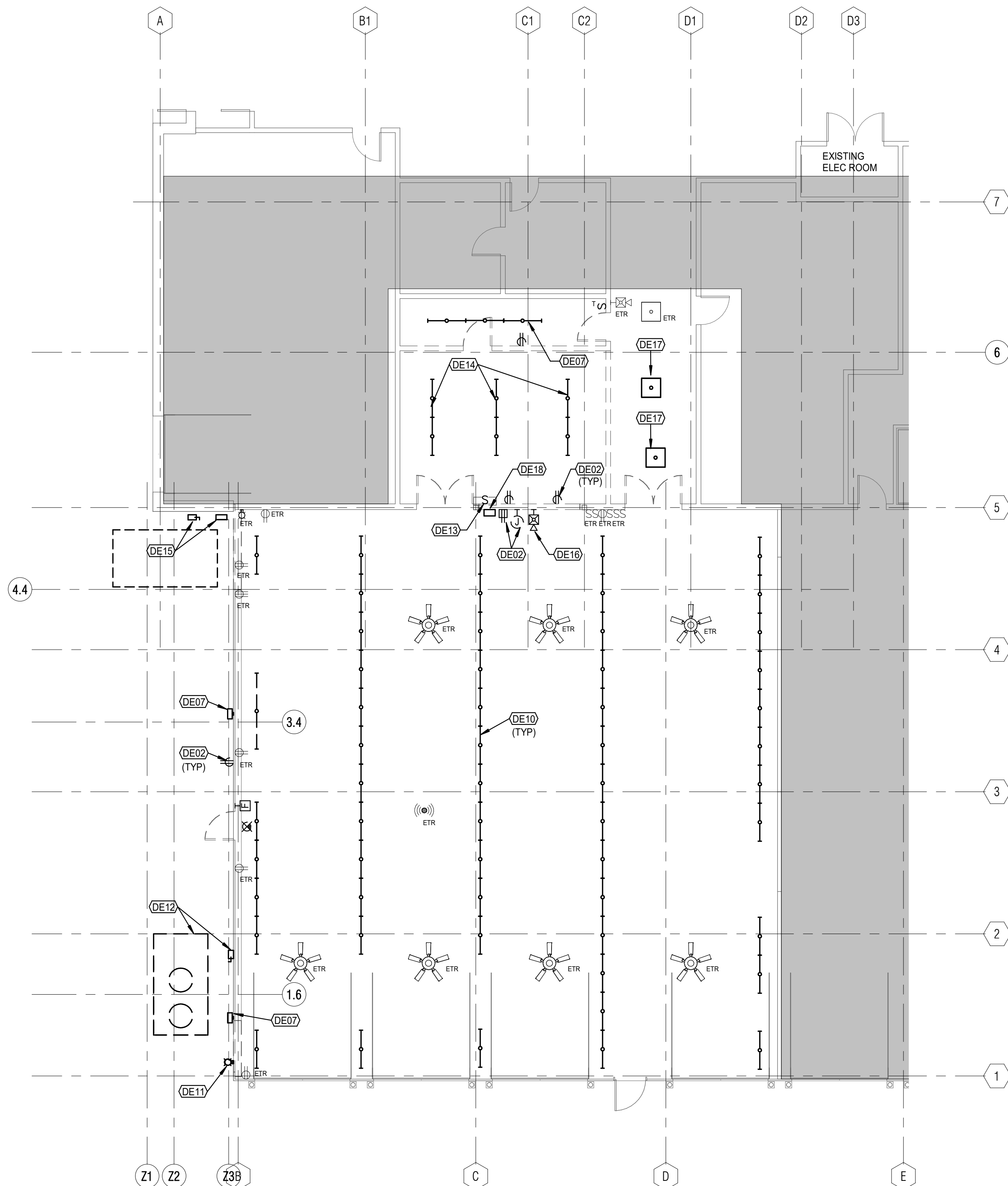
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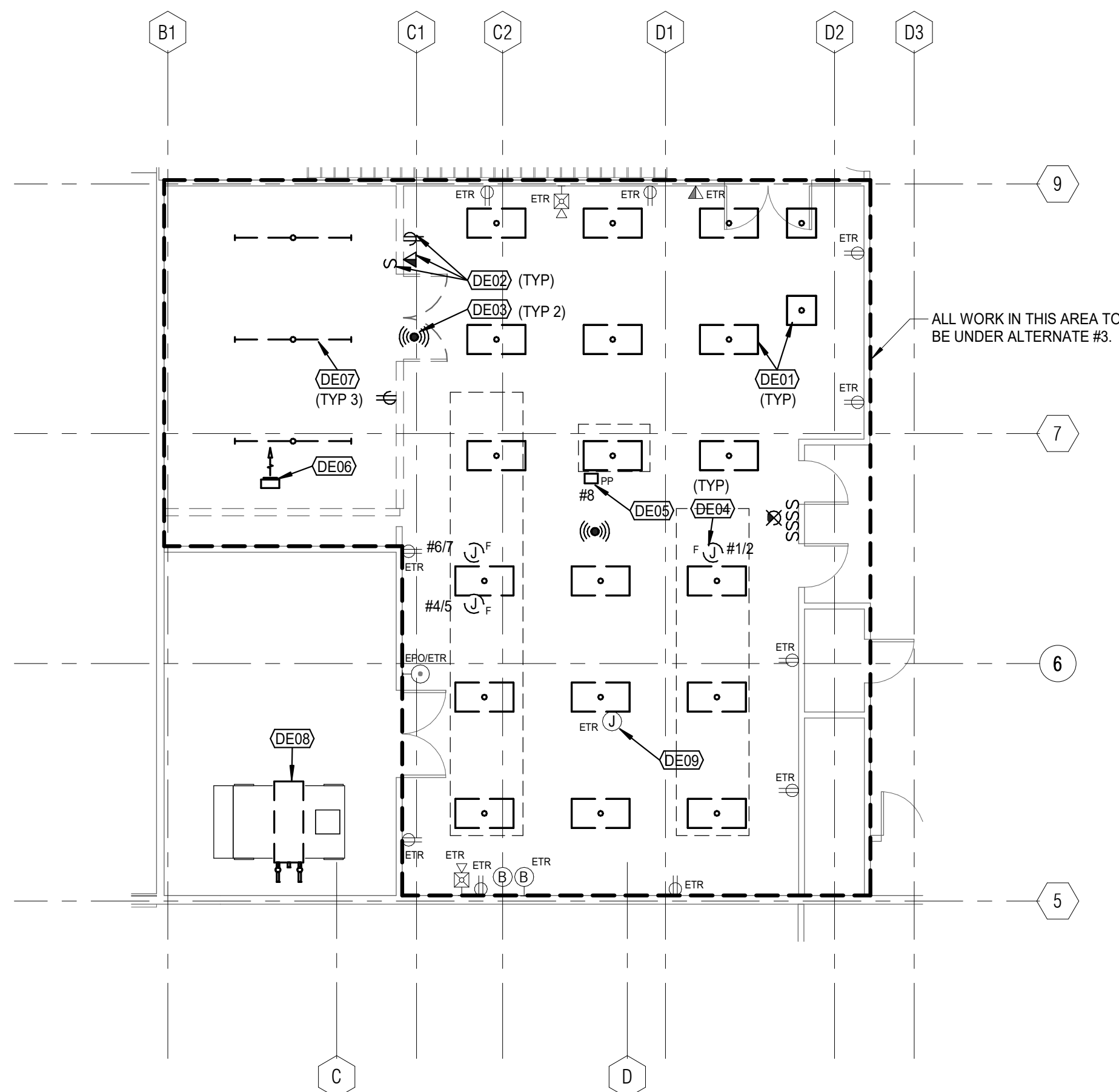
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Profession Name: MEP Consulting Engineers
Licensee Number: PE-2006037230

Demolition - Floor Plan - Level 1 & 2 - Electrical

DE100



Demolition - Floor Plan - Level 1 - Electrical



Demolition - Floor Plan - Level 2 -
Electrical
SCALE: 1/8" = 1'-0"

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L | F + a Project No. 21.6807.00
Alan W. Lankford - Mechanical Engineer - MO #0248254
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 Profession Name: MEP Consulting Engineers
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Phase 0 - Floor Plan - Level 1 & 2 - Power

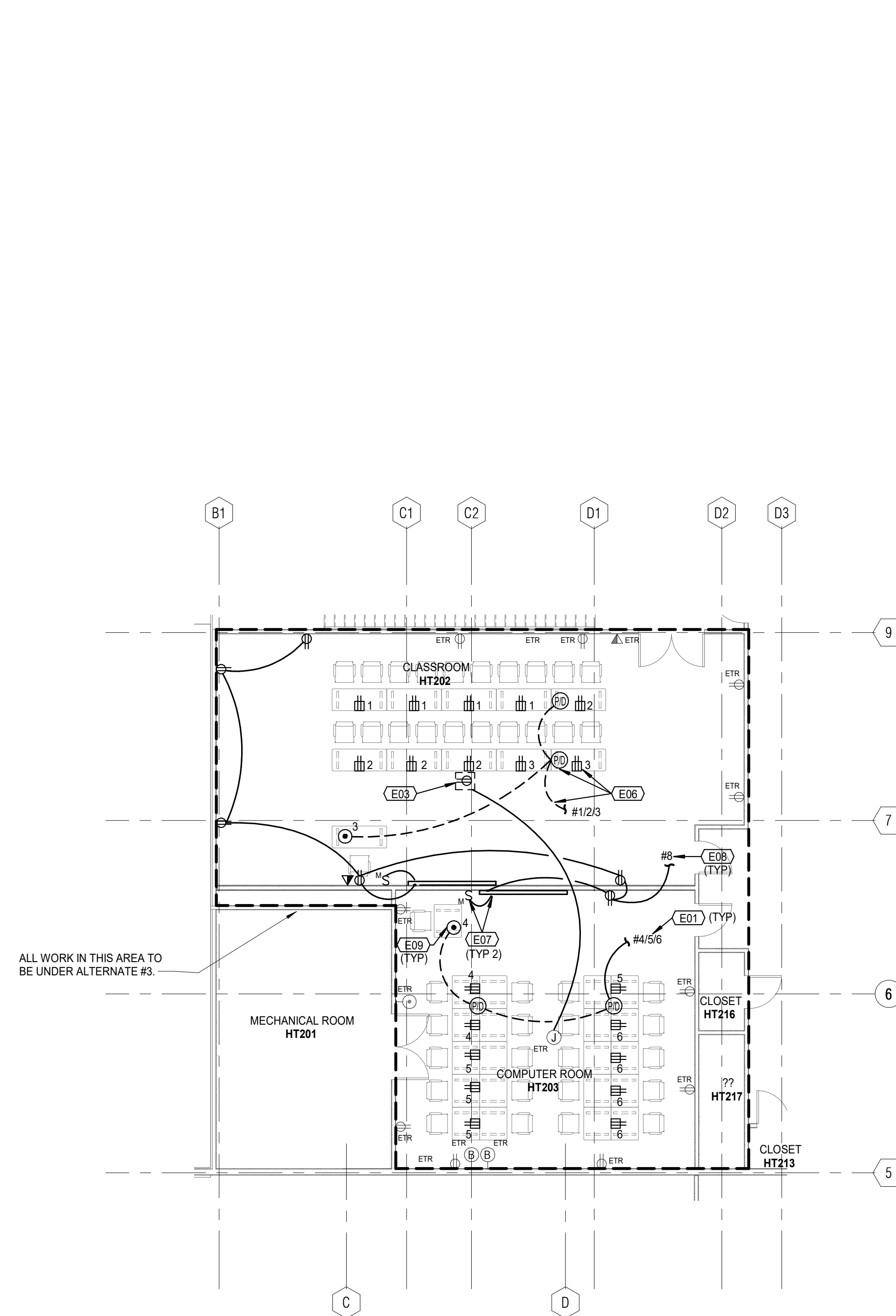
E100

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E FLOOR PLAN NOTES

- | | |
|-----|---|
| E01 | CONNECT TO EXISTING POWER/LIGHTING CIRCUIT MAINTAINED DURING DEMOLITION WORK. |
| E03 | CONNECT TO EXISTING PROJECTOR POWER CIRCUITRY. |
| E06 | PROVIDE COMBINATION POKE-THRU DEVICE SIMILAR TO HUBBELL WIRING DEVICE KELLEM OR EQUAL NO. S1SPFBL OR EQUAL. CONTRACTOR TO HARDWIRE/SURFACE WIRING DEVICES BELOW DESC. NUMBER BY OUTLET INDICATES SPARE CIRCUIT MAINTAINED DURING DEMOLITION WORK. |
| E07 | PROVIDE CENTER OFF SCREEN SWITCH. MAKE CONNECTION TO MOTORIZED SCREEN BY OTHERS. |
| E08 | CONNECT TO SPARE CIRCUIT MAINTAINED DURING DEMOLITION WORK. |
| E09 | PROVIDE POKE-THRU DEVICE SIMILAR TO HUBBELL WIRING DEVICE KELLEM OR EQUAL NO. S1PTX4BL OR EQUAL. |
| E10 | COORDINATE ROUGH-IN LOCATION FOR CORD AND PLUG REEL PROVIDED BY OTHERS. |
| E11 | COORDINATE ROUGH-IN LOCATION WITH GARAGE DOOR MANUFACTURER PROVIDED BY OTHERS. |



ALL WORK IN THIS AREA TO
BE UNDER ALTERNATE #3.

Phase 0 - Floor Plan - Level 2 - Power

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

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L[F+a Project No. 21.0807.00
Alan W. Lankford - Mechanical Engineer - MO #02-0224
CDA #0000001191

Phase 0 - Floor Plan - Level 1 - Power

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

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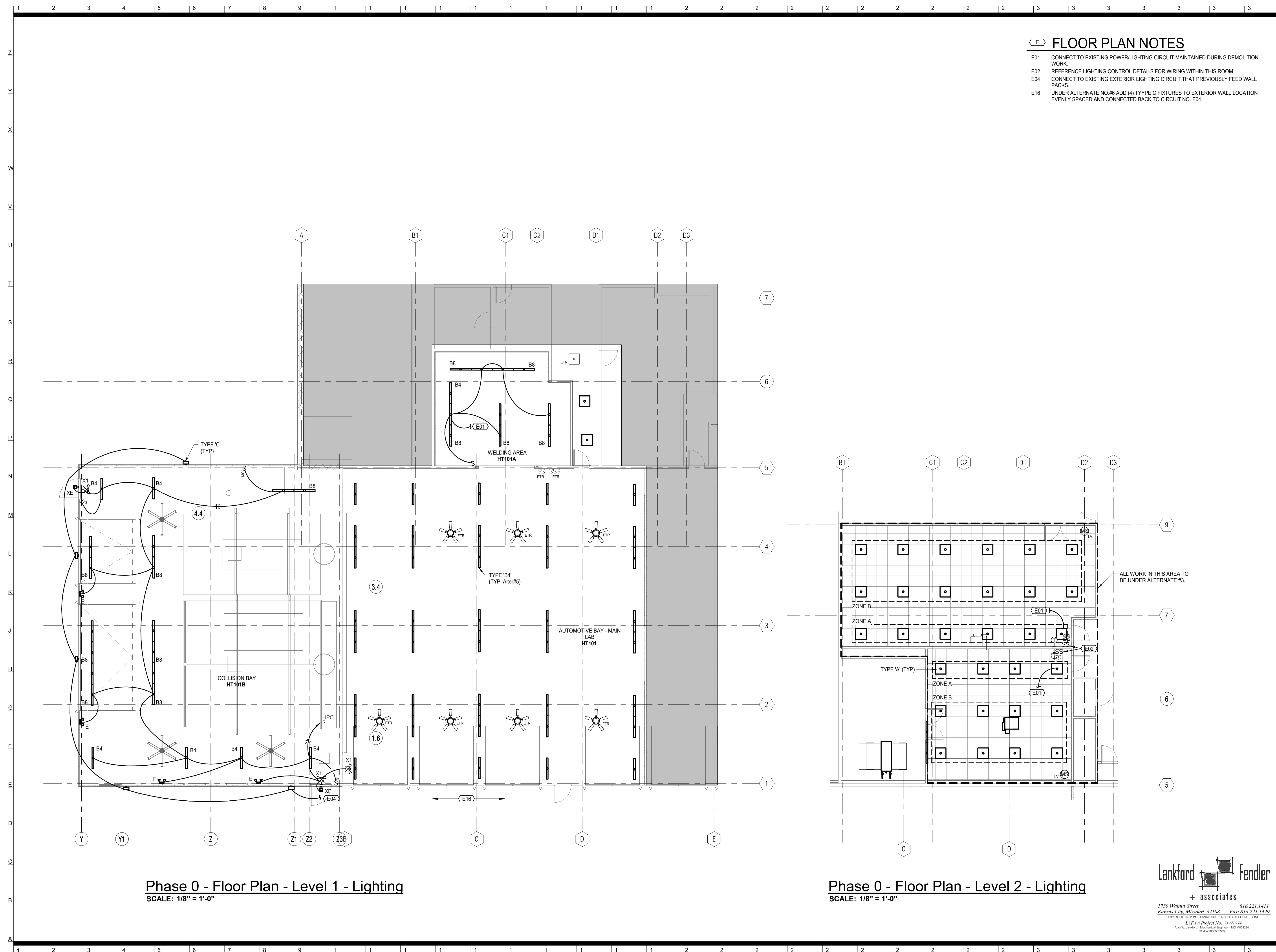
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Phase 0 - Floor Plan - Level 1 & 2 - Lighting

E200

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Archit

Civil Engineer

MEPF Engineer

Lumark

Catalog #	Type
Project	Date
Comments	
Prepared by	

DESCRIPTION

The patented Lumark Crosstour™ MAXX LED wall pack series of luminaries provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/ surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

SPECIFICATION FEATURES

Construction

Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 58W, 81W and 102W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens

assembly designed for maximum forward throw. Solid state LED Crosstour MAXX luminaires are thermally optimized with eight lumen packages in cool 5000K, neutral 4000K, or warm 3000K LED color temperature (CCT).

Electrical
LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 58W, 81W and 102W models operate in -40°C to 60°C (-40°F to 140°F). High ambient 50°C (122°F) models available in 58W and 81W models only. Crosstour MAXX luminaires maintain greater than 88% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

Emergency Egress

Optional integral cold weather battery emergency egress includes emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

Finish

Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

Five-year warranty.



**XTOR
CROSSTOUR
MAXX LED**

APPLICATIONS:
WALL / SURFACE
INVERTED
SITE LIGHTING



CERTIFICATION DATA
UL/cUL Wet Location Listed
Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
DesignLights Consortium® "Qualified"
LM79 (LM80 Compliant)
ROHS Compliant
NEMA Compliant Models
3G Vibration Tested
UL954 Listed (CBP Models)
IP68 Rated

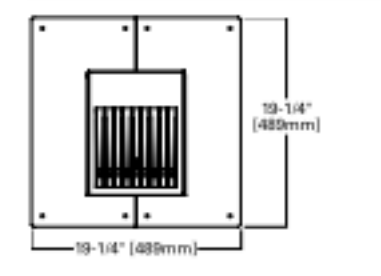
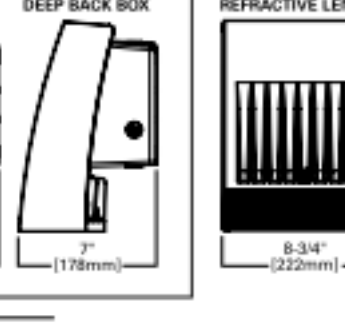
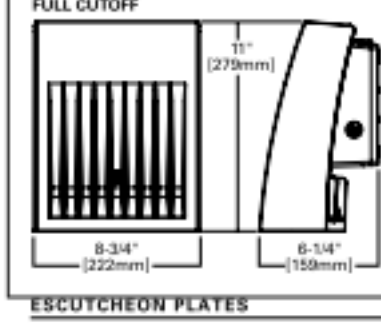
TECHNICAL DATA
40°C Ambient Temperature
External Supply Wiring 90°C Minimum

EPA
Effective Projected Area (Sq. Ft.):
XTOR8B, XTOR8B, XTOR12B=0.54

SHIPPING DATA:
Approximate Net Weight:
12.15 lbs. (3.44 kg.)

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November 30, 2020 1:58 PM

DIMENSIONS



*www.designlights.org

XTOR CROSSTOUR MAXX LED

page 2

POWER AND LUMENS BY FIXTURE MODEL

58W Series						
LED Information	XTOR8B	XTOR8BRL	XTOR8B-W	XTOR8BRL-W	XTOR8B-Y	XTOR8BRL-Y
Delivered Lumens	6,129	6,225	6,038	6,133	5,611	5,826
S.U.G. Rating	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	58W	58W	58W	58W	58W	58W
81W Series						
LED Information	XTOR8B	XTOR8BRL	XTOR8B-W	XTOR8BRL-W	XTOR8B-Y	XTOR8BRL-Y
Delivered Lumens	8,502	8,635	8,372	8,504	7,748	8,079
S.U.G. Rating	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	81W	81W	81W	81W	81W	81W
102W Series						
LED Information	XTOR12B	XTOR12BRL	XTOR12B-W	XTOR12BRL-W	XTOR12B-Y	XTOR12BRL-Y
Delivered Lumens	12,728	13,458	12,539	13,258	11,861	12,595
S.U.G. Rating	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	102W	102W	102W	102W	102W	102W
EGRESS Information						
XTOR8B and XTOR8B Full Cutoff CBP Egress LED			XTOR8B and XTOR8B Refractive Lens CBP Egress LED			
Delivered Lumens	509		468			
S.U.G. Rating	N.A.		N.A.			
CCT (Kelvin)	4000K		4000K			
CRI (Color Rendering Index)	65		65			
Power Consumption (Watts)	1.8W		1.8W			
LUMEN MAINTENANCE						
Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)		Theoretical L70 (Hours)			
XTOR8B Model						
25°C	> 90%		246,000			
40°C	> 88%		213,000			
50°C	> 86%		201,000			
XTOR8B Model						
25°C	> 89%		218,000			
40°C	> 87%		195,000			
50°C	> 86%		181,000			
XTOR12B Model						
25°C	> 89%		222,000			
40°C	> 87%		198,000			

CURRENT DRAW

Model Series					
Voltage	XTOR8B	XTOR8B	XTOR12B	XTOR8B CBP (Fixture/Battery)	XTOR8B CBP (Fixture/Battery)
120V	0.51	0.71	0.84	0.60/0.25	0.92/0.25
208V	0.25	0.38	0.52	--	--
240V	0.25	0.35	0.45	--	--
277V	0.22	0.31	0.39	0.36/0.21	0.50/0.21
347V	0.19	0.25	0.33	--	--
480V	0.14	0.19	0.24	--	--



Cooper Lighting Solutions
1151 Highway 70 South
Pawnee, CO 80658
P: 770-486-4000
www.cooperlighting.com

Specifications and
drawings subject to
change without notice.

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HIGH
TECHNOLOGY

STG.

PHOTOMETRIC PLAN-PAVED AREA SCALE: 1" = 20'-0"

Luminaire Schedule					
Symbol	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts
☞	COOPER LIGHTING SOLUTIONS - LUMARK - XTOR8B	C	0.950	8502	81
				Total Watts	
				729	

Calculation Summary				
Label	Units	Avg	Max	Min
Paved Area	Fc	2.25	17.3	0.0
PropertyLine	Fc	0.00	0.0	0.0

DISCLAIMER:
These calculation have been performed according to IES standards and good practice. There may be differences between measured values and results presented herin, based on the extent in which field condition deviate from the input data. All attached drawing(s) images are for photometric reference only.

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Profession Name: MEP Consulting Engineers
License Number: PE-2006037230

Lighting Photometrics

E201

bnim

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**MCC Longview HT
Addition/Renovation**

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Project No: 20008.00

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1	Addendum #3	10/25/2021

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LIGHTING PHOTOMETRIC

E202

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LIGHTING-PROPERTY LINE PHOTOMETRICS
SCALE: 1" = 160'-0"

Calculation Summary				
Label	Units	Avg	Max	Min
PropertyLine	Fc	0.00	0.0	0.0

DISCLAIMER:
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Sept. 23, 2021

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Licensee Number: PE-2006037230

Phase 0 - Floor Plan - Level 1 & 2 - Systems

E300

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FLOOR PLAN NOTES

- | | |
|-----|--|
| E05 | PROVIDE AND INSTALL 60/3P NEMA TYPE 1 DISCONNECT. MAKE CONNECTION TO UNIT PER MANUFACTURERS RECOMMENDATIONS. |
| E12 | PROVIDE AND INSTALL NEW 100A/3P NEMA 4 TYPE 2 DISCONNECT SWITCH. MAKE CONNECTION TO UNIT WITH 4/3 & 1-8G GROUND WIRE. ROUTE BACK AND CONNECT TO 125A/3P FEEDER CIRCUIT THAT PREVIOUSLY FED OUTSIDE AHU. AT THE PANEL REPLACE 125A/3P BREAKER WITH 100A/3P BREAKER. |
| E13 | CONTRACTOR TO VERIFY BOOTH CONNECTION WITH MANUFACTURER. PRIOR TO ROUTING CONDUIT. |
| E14 | PROVIDE TOGGLE DISCONNECT SWITCH AND MAKE CONNECTION TO RADIANT HEATER BY OTHERS. |
| E15 | MAKE CONNECTION TO CEILING FAN BY OTHERS. PROVIDE CONDUIT FROM CONTROLLER DOWN TO CONTROLLER FOR FAN CONTROLS. VERIFY WITH MECHANICAL CONTRACTOR FOR CONTROL LOCATION. |
| E17 | NEW LOCATION OF EXISTING FIRE ALARM DEVICE MAINTAINED DURING DEMOLITION WORK. |
| E18 | NEW LOCATION FOR MACRO AIR SYSTEM, EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED. |

Phase 0 - Floor Plan - Level 1 - Systems

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

Phase 0 - Floor Plan - Level 2 - Systems

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

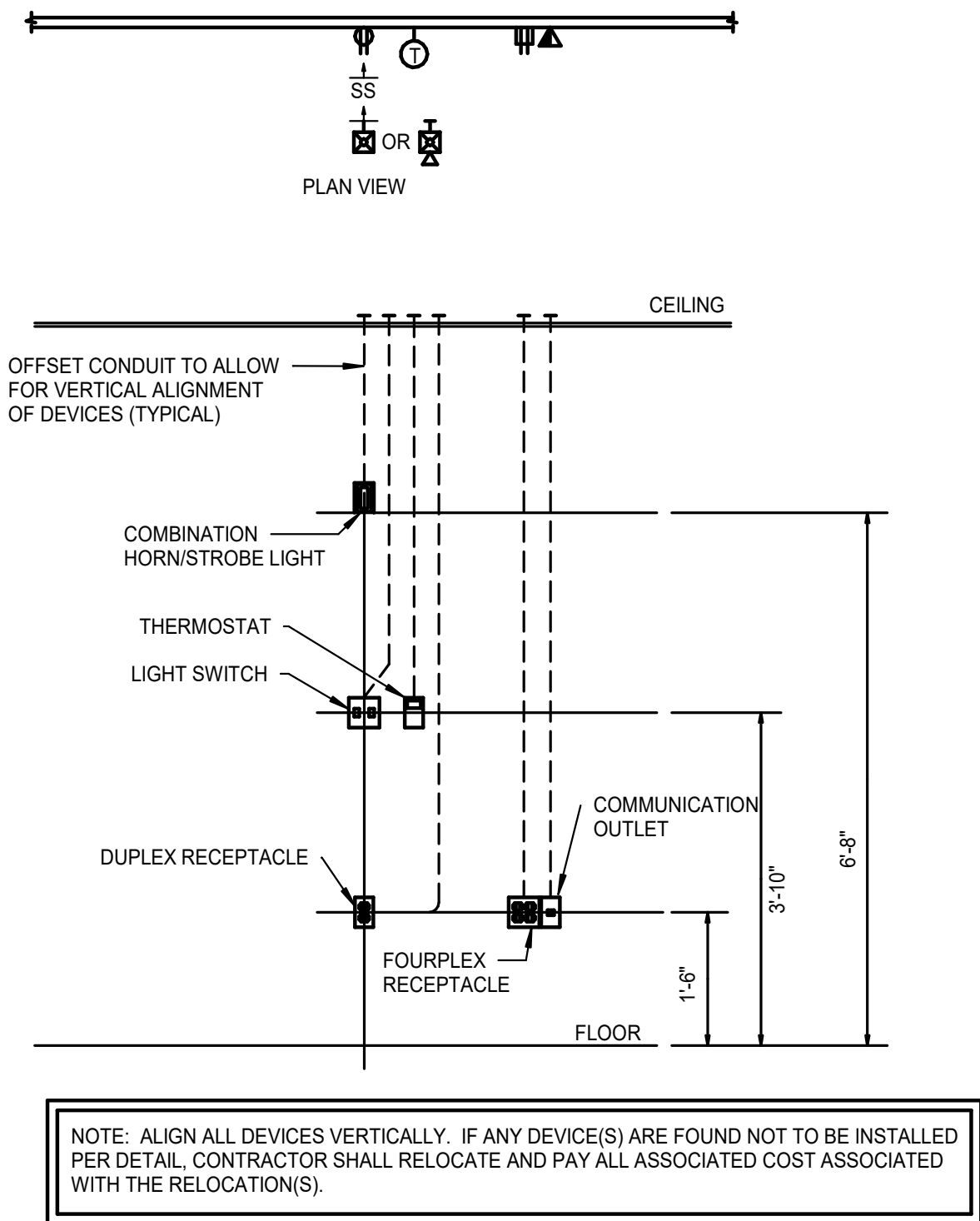
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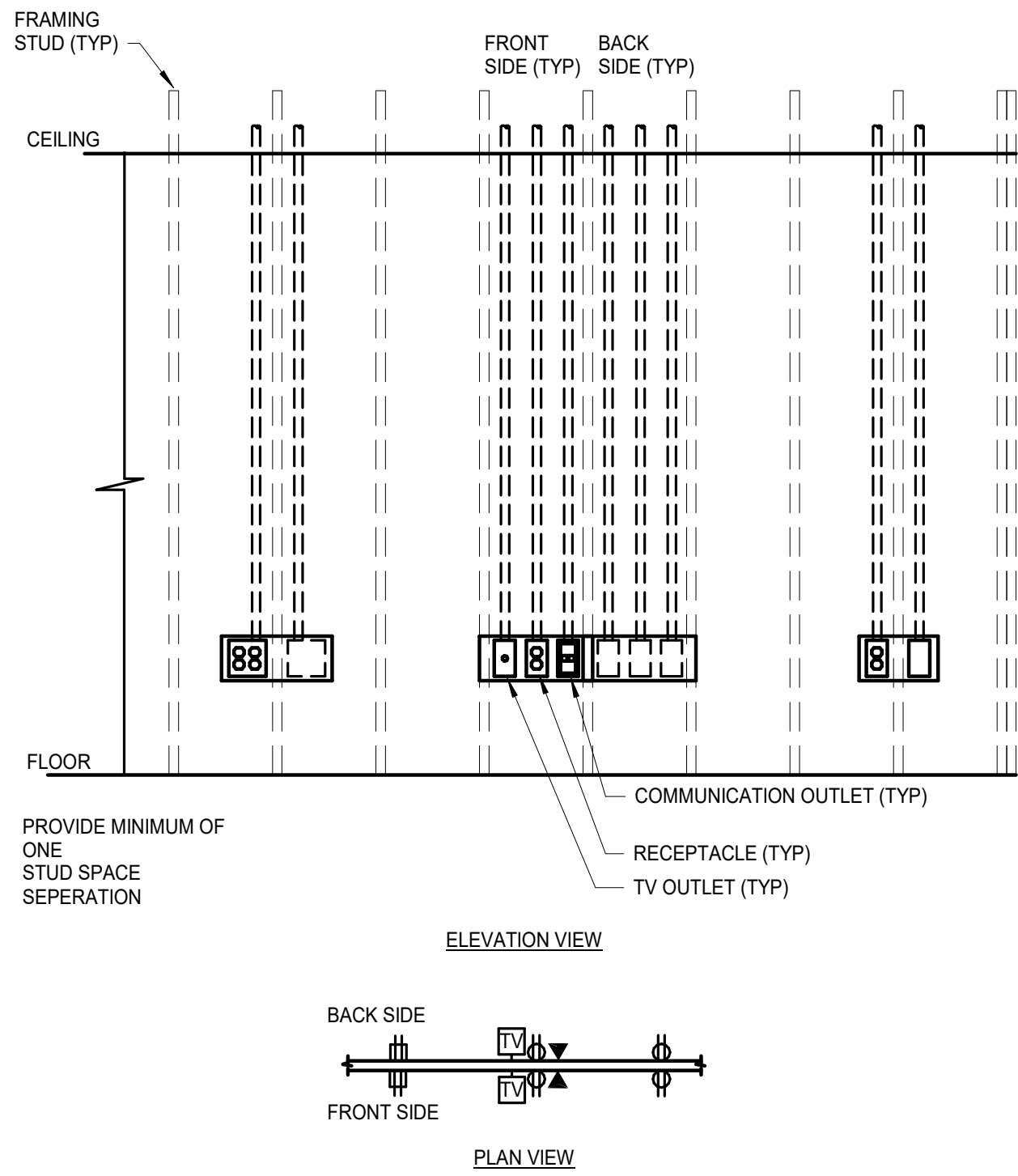
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Alan W. Lankford - Mechanical Engineer - MD #024254
CDA #2000021109

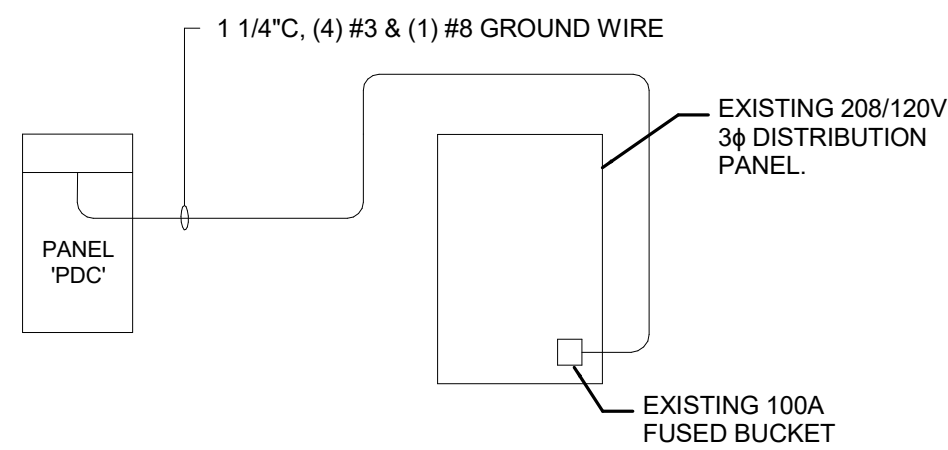
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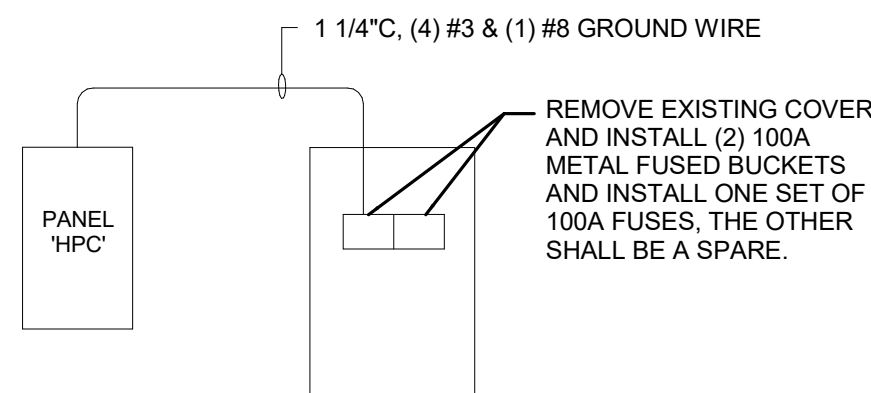
TYPICAL WALL MOUNTING DEVICE DETAIL



TYPICAL WIRING DEVICE MOUNTING DETAIL



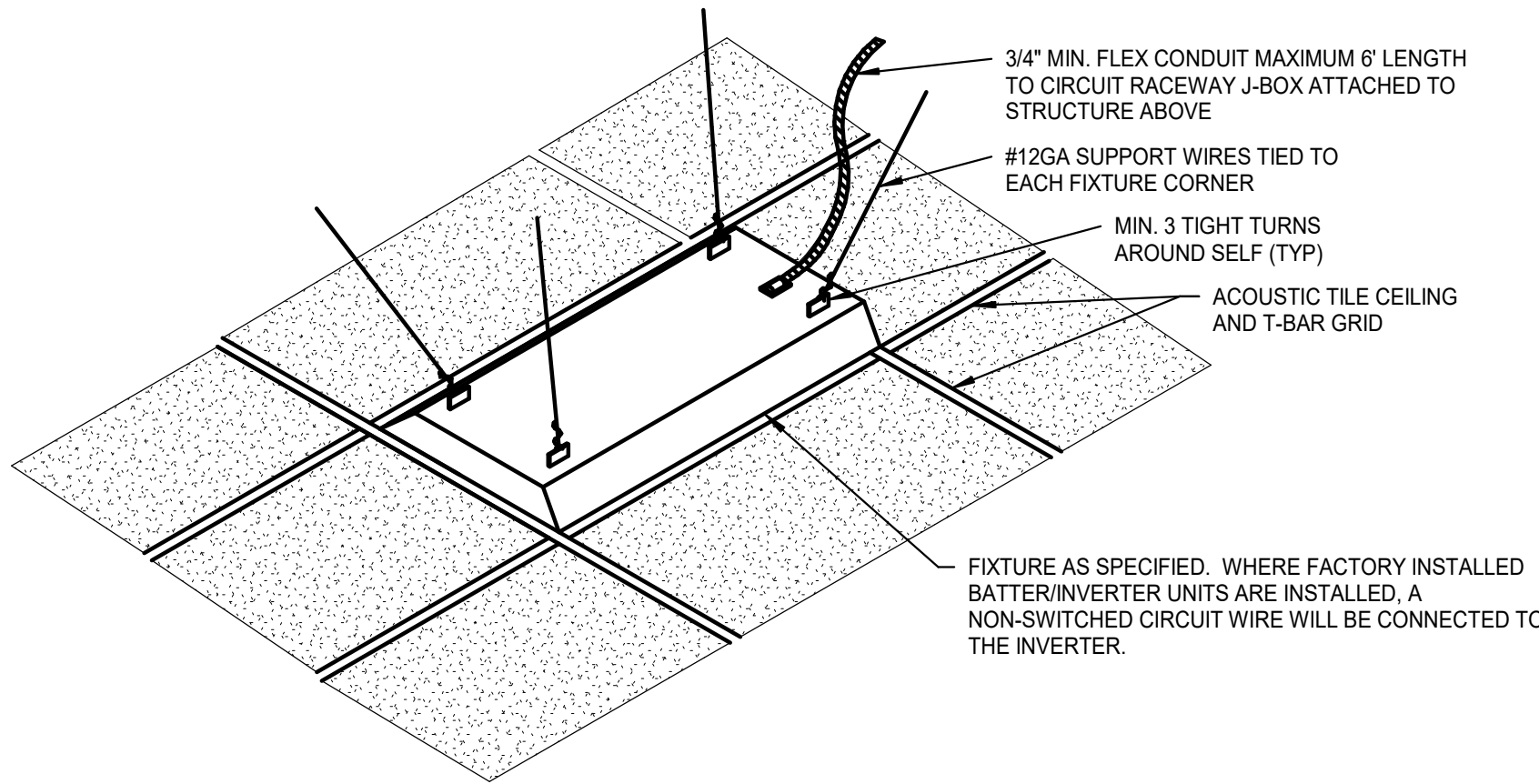
708/120V 3PHASE, 4-WIRE RISER
NO SCALE



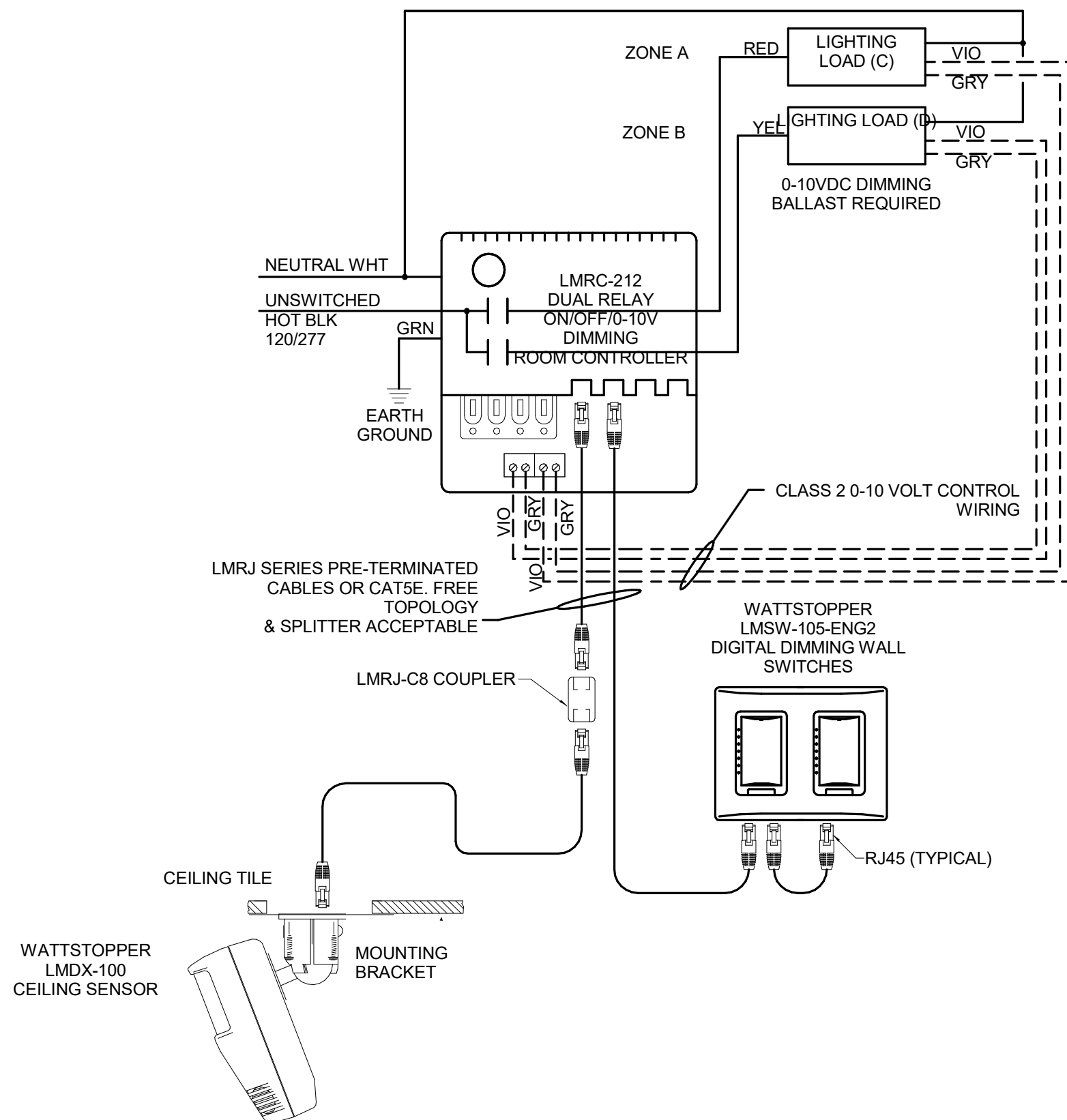
480/277V 3PHASE, 4-WIRE RISER
NO SCALE

Electrical Riser Diagram

NOT TO SCALE



LIGHT FIXTURE MOUNTING AND BRACING DETAIL



DUAL/TWO ZONE DIMMING
W/MOTION SENSOR W/WALL
SWITCH CONTROL DETAIL
NOT TO SCALE

MCC Longview HT Addition/Renovation

500 SW Longview Road
Lee's Summit, MO 64081 Project No: 20008.00

PERMIT/BID DOCUMENTS

Issued: September 23, 2021

[illegible]

Seal



Sept. 23, 202

License Name: Gregory J. Fendler
Profession Name: MEP Consulting Engineer
Licensee Number: PE-2006037230

ELECTRICAL DETAILS

E400

9/23/2021 7:24:13 AM

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**MCC Longview HT
Addition/Renovation**

500 SW Longview Road
Lee's Summit, MO 64081

Project No: 20008.00

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Lee's Summit, MO 64081

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Rev. #	Description	Date Issued
1	Addendum #3	10/25/2021

Seal

License Name: Gregory J. Fendler
Profession Name: MEP Consulting Engineers
Licensee Number: PE-2006037230

ELECTRICAL SCHEDULES

E500

Branch Panel: HPC

Location: COLLISION BAY HT101B

Supply From:

Mounting: Surface

Enclosure: Type 1

Volts: 277/480 Vye

Phases: 3

Wires: 4

A.I.C. Rating:

Mains Type:

Mains Rating: 100 A

Notes:

Notes	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	Notes
1	1				2.1			0.578			1	20 A	LTG; COLLISION BAY	2	
	3	IDD DOWN DRAFT BOOTH	20 A	3		2.1			0		1	20 A	SPARE	4	--
	5						2.1			0	1	20 A	SPARE	6	--
1	7				5.8			0			--	--	PROVISION	8	--
	9	IDD DOWN DRAFT BOOTH	30 A	3		5.8			0		--	--	PROVISION	10	--
	11						5.8			0	--	--	PROVISION	12	--
1	13				7.5			0			--	--	PROVISION	14	--
	15	MCD CROSS DRAFT BOOTH	30 A	3		7.5			0		--	--	PROVISION	16	--
	17						7.5			0	--	--	PROVISION	18	--
1	19				5.5			0			--	--	PROVISION	20	--
	21	MCD CROSS DRAFT BOOTH	30 A	3		5.5			0		--	--	PROVISION	22	--
	23						5.5			0	--	--	PROVISION	24	--
--	25	PROVISION	--	--	0			0			--	--	PROVISION	26	--
--	27	PROVISION	--	--		0			0		--	--	PROVISION	28	--
--	29	PROVISION	--	--			0			0	--	--	PROVISION	30	--
--	31	PROVISION	--	--	0			0			--	--	PROVISION	32	--
--	33	PROVISION	--	--		0			0		--	--	PROVISION	34	--
--	35	PROVISION	--	--			0			0	--	--	PROVISION	36	--
--	37	PROVISION	--	--	0			0			--	--	PROVISION	38	--
--	39	PROVISION	--	--		0			0		--	--	PROVISION	40	--
--	41	PROVISION	--	--			0			0	--	--	PROVISION	42	--
Total Load:					21.478 kVA		20.900 kVA		20.900 kVA						
Total Amps:					77.5 A		75.5 A		75.5 A						
Load Classification			Connected Load			Demand Factor			Estimated Demand			Panel Totals			
Heating Resistance			62700 VA			125.00%			78375 VA						
Lighting			572 VA			125.00%			716 VA						
Other			6 VA			100.00%		6 VA				Total Conn. Load: 63278 VA			
Power			0 VA			0.00%		0 VA				Total Conn. Current 76 A			
												Total Demand Load 79097 VA			
												Power Factor %: 95			
												Total Demand Current: 100 A			

NOTES:

1. PROVIDE SHUNT-TRIP TYPE CIRCUIT BREAKER, TIE INTO FA SYSTEM FOR UNIT SHUT-DOWN.

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GENERAL NOTES:

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART						
OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

- * = UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- * = UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE.
- * ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

Branch Panel: PPC

Location: COLLISION BAY HT101B

Supply From:

Mounting: Surface

Enclosure: Type 1

Volts: 120/208 Vye

Phases: 3

Wires: 4

A.I.C. Rating:

Mains Type: MLO

Mains Rating: 100 A

Notes:

Notes	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	Notes
	1	REC; WELDING AREA	20 A	1	0.9			0.9			1	20 A	REC; WELDING AREA	2	
	3	REC; COLLISION BAY GENERAL...	20 A	1		0.9			0.5		1	20 A	REC; COLLISION BAY GARAGE DOOR	4	
	5	REC; COLLISION BAY GARAGE DOOR	20 A	1			0.5			0.9	1	20 A	REC; COLLISION BAY CORD AND PLUG...	6	
	7	FPB-1	20 A	2	2.5			0.78			1	20 A	IR-1 - IR-10	8	
	9				2.5			13.8		1	20 A	MIXING BOOTH	10		
	11	MIXING BOOTH	20 A	1			0.4			1.32	1	20 A	IDD DOWN DRAFT BOOTH	12	
	13	MCD CROSS DRAFT BOOTH	20 A	1	1.2			1.2			1	20 A	MCD CROSS DRAFT BOOTH	14	
--	15	SPARE	20 A	1		0			0		1	20 A	SPARE	16	--
--	17	SPARE	20 A	1			0			0	1	20 A	SPARE	18	--
--	19	PROVISION	--	--	0			0			--	--	PROVISION	20	--
--	21	PROVISION	--	--		0			0		--	--	PROVISION	22	--
--	23	PROVISION	--	--			0			0	--	--	PROVISION	24	--
--	25	PROVISION	--	--	0			0			--	--	PROVISION	26	--
--	27	PROVISION	--	--		0			0		--	--	PROVISION	28	--
--	29	PROVISION	--	--			0			0	--	--	PROVISION	30	--
--	31	PROVISION	--	--	0			0			--	--	PROVISION	32	--
--	33	PROVISION	--	--		0			0		--	--	PROVISION	34	--
--	35	PROVISION	--	--			0			0	--	--	PROVISION	36	--
--	37	PROVISION	--	--	0			0			--	--	PROVISION	38	--
--	39	PROVISION	--	--		0			0		--	--	PROVISION	40	--
--	41	PROVISION	--	--			0			0	--	--	PROVISION	42	--
			Total Load:		7.480 kVA	17.700 kVA		3.120 kVA							
			Total Amps:		67.9 A	153.1 A		26.0 A							

Load Classification			Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating Resistance			17920 VA	125.00%	22400 VA		
Power			5780 VA	100.00%	5780 VA	Total Conn. Load:	28300 VA
Receptacle			4600 VA	100.00%	4600 VA	Total Conn. Current	79 A
						Total Demand Load	32780 VA
						Power Factor %:	95
						Total Demand Current:	96 A

NOTES:

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GENERAL NOTES:



