

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 side, there is a section with a brick wall and a large, dark, rectangular opening, possibly a garage or entrance. The main body of the building has a series of large, multi-paned glass windows that span across its front. Two small, square, light fixtures are mounted on the upper part of the facade. The building is set against a plain, light gray background, and a soft shadow is cast on the ground in front of it.

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Development Services Department
Lee's Summit, Missouri
12/28/2021

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

PERMIT/BID DOCUMENTS

Project No: 20008.00

PERMIT/BID DOCUMENTS

Issued: September 23, 2021

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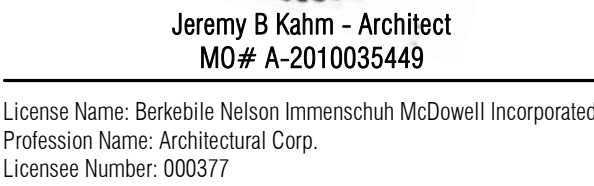
Jeremy B Kahm - Architect
MO# A-2010035449

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

**SHEET INDEX, PROJECT INFORMATION &
GENERAL NOTES**

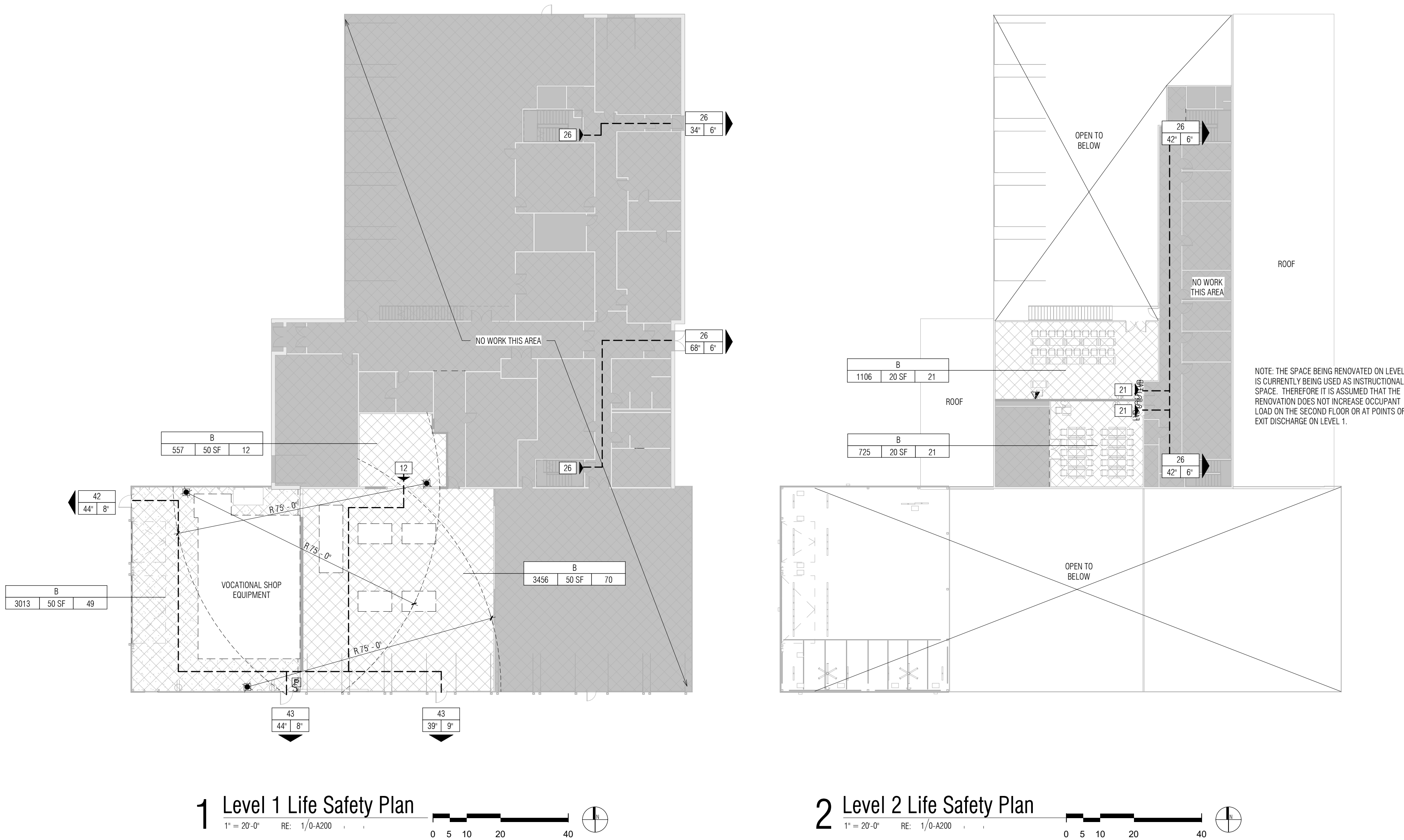
GOO1

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

PERMIT/BID DOCUMENTS[illegible]

CODE REVIEW DATA, LIFE SAFETY PLANS

G101



Life Safety Symbols

Legend for the floor plan symbols:

- OCCUPANT TYPE
SQUARE FOOTAGE
OCCUPANT LOAD FACTOR
NUMBER OF OCCUPANTS
- OCCUPANT LOAD
EXIT WIDTH PROVIDED / REQUIRED
- OCCUPANT LOAD
- EGRESS PATH
- FIRE EXTINGUISHER CABINET

Sea



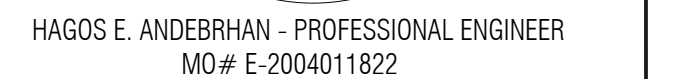
MCC Longview HT Addition/Renovation

PERMIT/BID DOCUMENTS

Issued: August 23, 2021

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Seal



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SITE LAYOUT PLAN

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GENERAL NOTES:

- ### PAVEMENT LEGEND

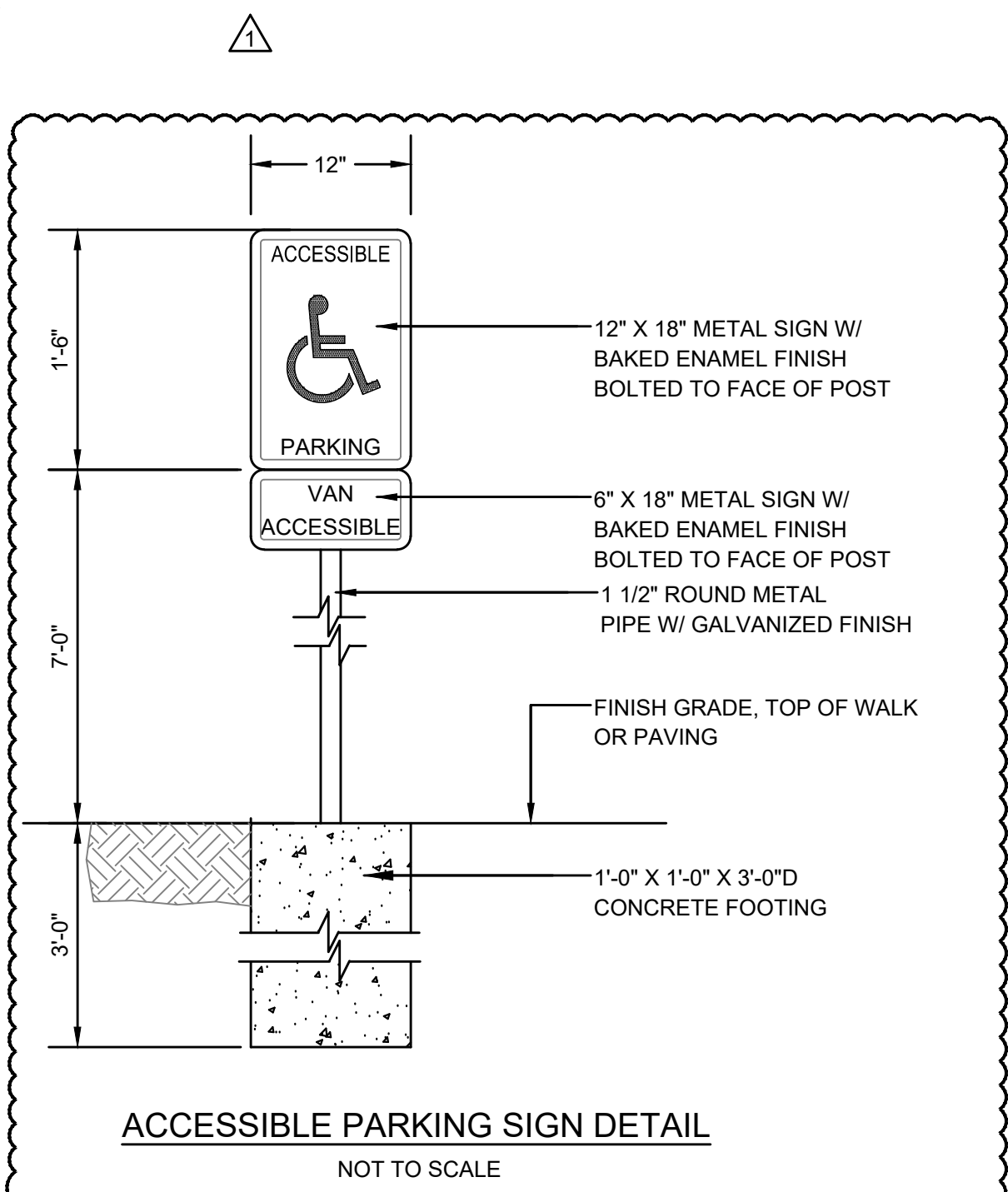


A PARCEL OF LAND IN SECTION -9 TOWNSHIP-47 RANGE-32 -- PART OF THE NE 1/4 DESCRIBED AS FOLLOWS: BEGINNING AT THE NE CORNER SAID 1/4 THENCE W ALONG THE NORTH LINE OF SECTION 9 2094.87'; THENCE S 03 DEG 15 MIN 09 SEC W 515.17' TO THE TRUE POINT OF BEGINNING, THENCE CONTINUING S 03 DEG 15 MIN 09 SEC W 2355.78' THENCE N 57 DEG 19 MIN 13 SEC E 391.38' THENCE S 88 DEG 13 MIN 46 SEC E 1486.29' THENCE N 3 DEG 23 MIN 20 SEC E 322' S 87 DEG 50 MIN 38 SEC E 269.77' THENCE N 3 DEG 14 MIN 53 SEC E 2118.34' THENCE N 87 DEG 38 MIN 41 SEC W 1215.76' THENCE S 23 DEG 09 MIN 27 SEC E 310.25' THENCE N 87 DEG 41 MIN 21 SEC E 409.48' THENCE S 2 DEG 19 MIN 21 SEC W 47.69' N 87 DEG 41 MIN 21 SEC E 583.30' TO THE TRUE POINT OF BEGINNING.

SAID PARCEL CONTAINS 4,744,042 S.F MORE OR LESS, OR 108.91 ACRES.

DEVELOPMENT PLAN NOTES:

1. ACCORDING TO FEMA PANELS 29095C0412G AND 29095C0414G, WITH AN EFFECTIVE DATE OF 01/20/2017, THE ENTIRE SITE LIES IN ZONE X, AREAS OF MINIMAL FLOOD HAZARD.
2. ACCORDING TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES ON-LINE APPLICATION GEOSTRAT, MAINTAINED BY THE MISSOURI GEOLOGICAL SURVEY, AND ACCESSED ON OCTOBER 21, 2001, THERE ARE NO EXISTING ACTIVE, INACTIVE, OR CAPPED WELLS ON THE SITE.
3. EXISTING PARKING SPACE COUNT IN THE AREA ADJACENT TO THE HT ADDITION CONSISTS OF 91 STANDARD SPACES AND 1 ACCESSIBLE PARKING SPACE. THE PROPOSED PARKING SPACE COUNT IN THE SAME AREA CONSISTS OF 65 STANDARD SPACES AND 3 ACCESSIBLE SPACES



MCC Longview HT Addition/Renovation

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1	ADDENDUM 3	25 OCT 2021
2	FDP RESPONSES	16 DEC 2021

Key Plan



HAGOS E. ANDEBRHAN - PROFESSIONAL ENGINEER
MO# E-2004011822

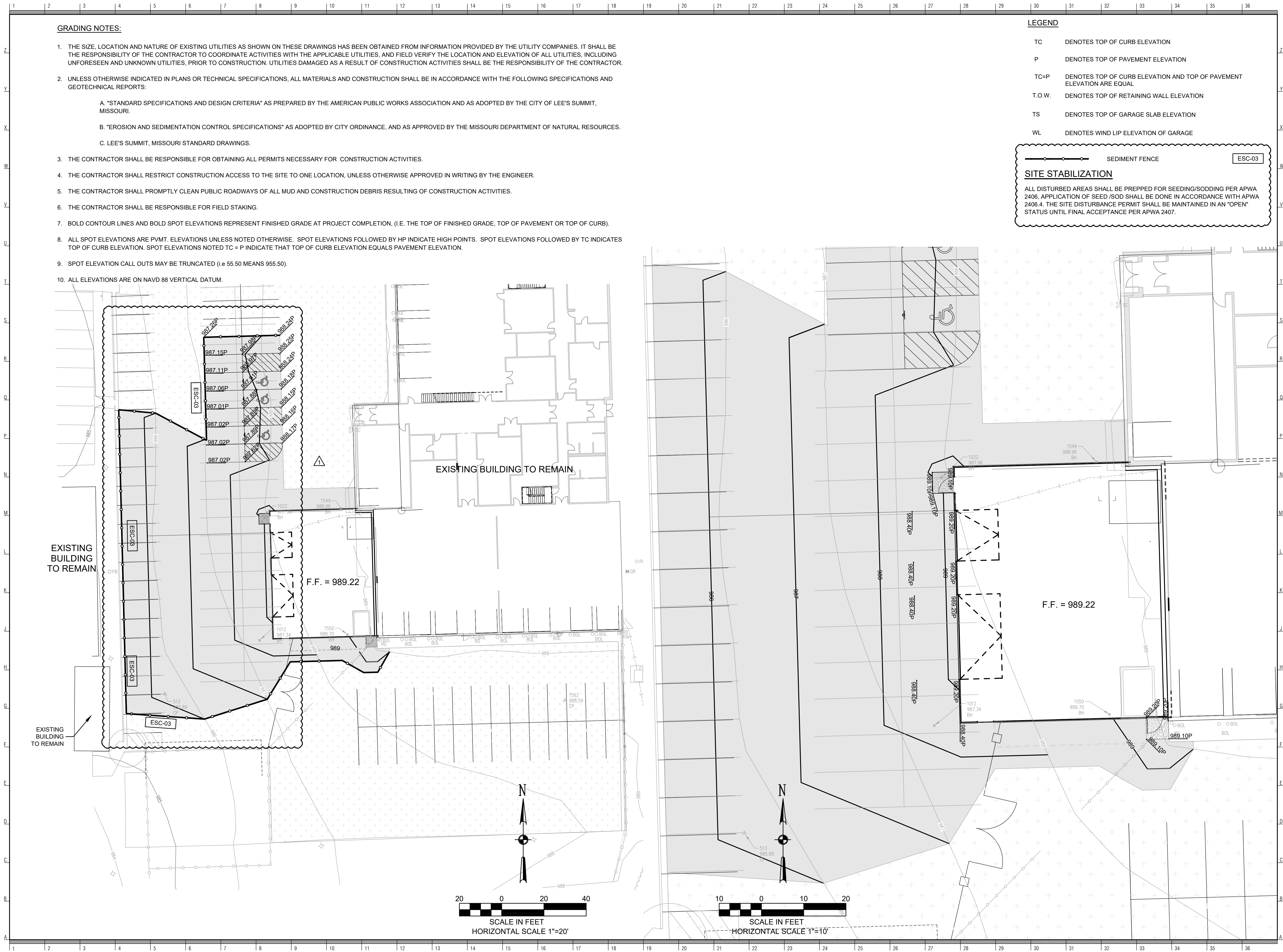
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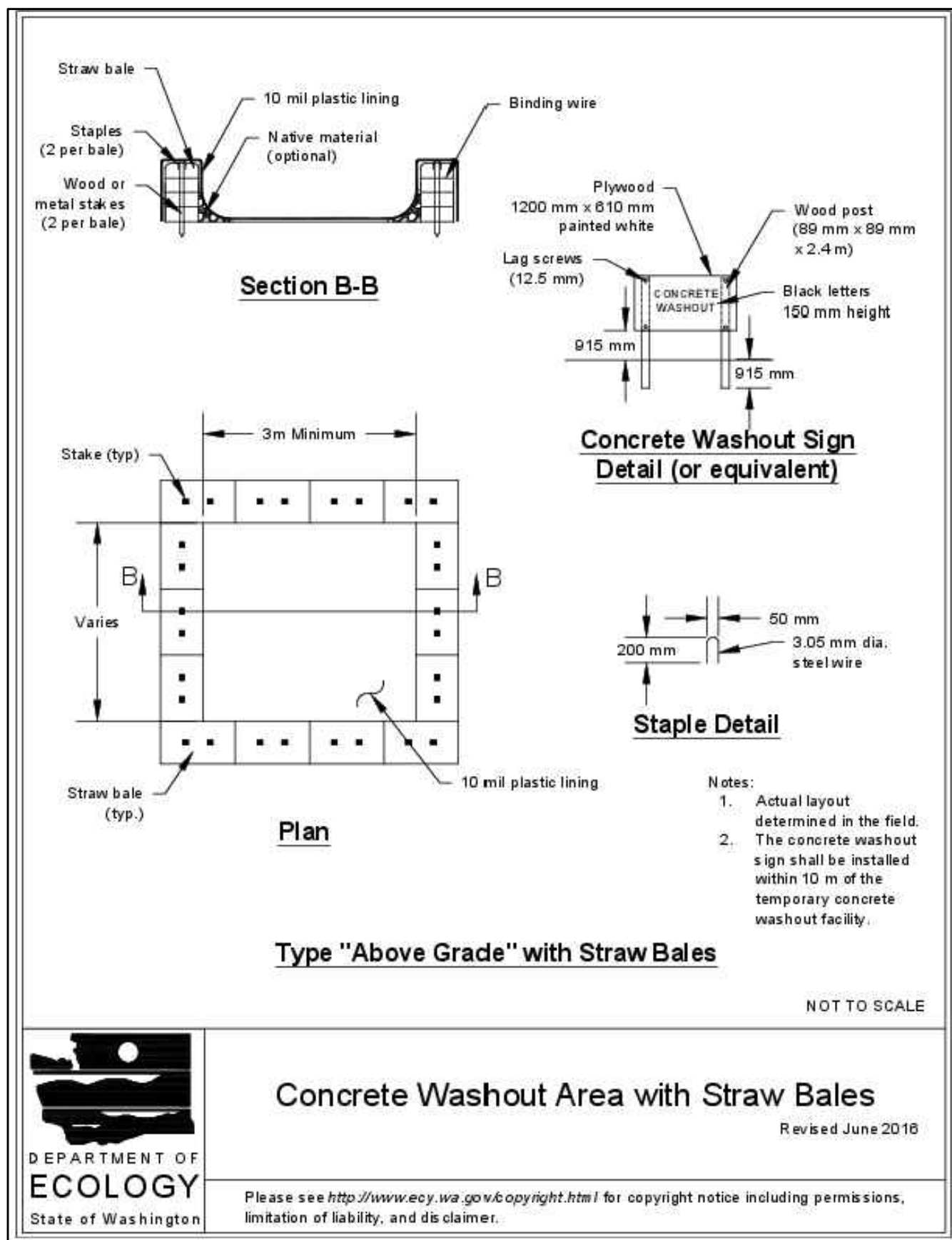
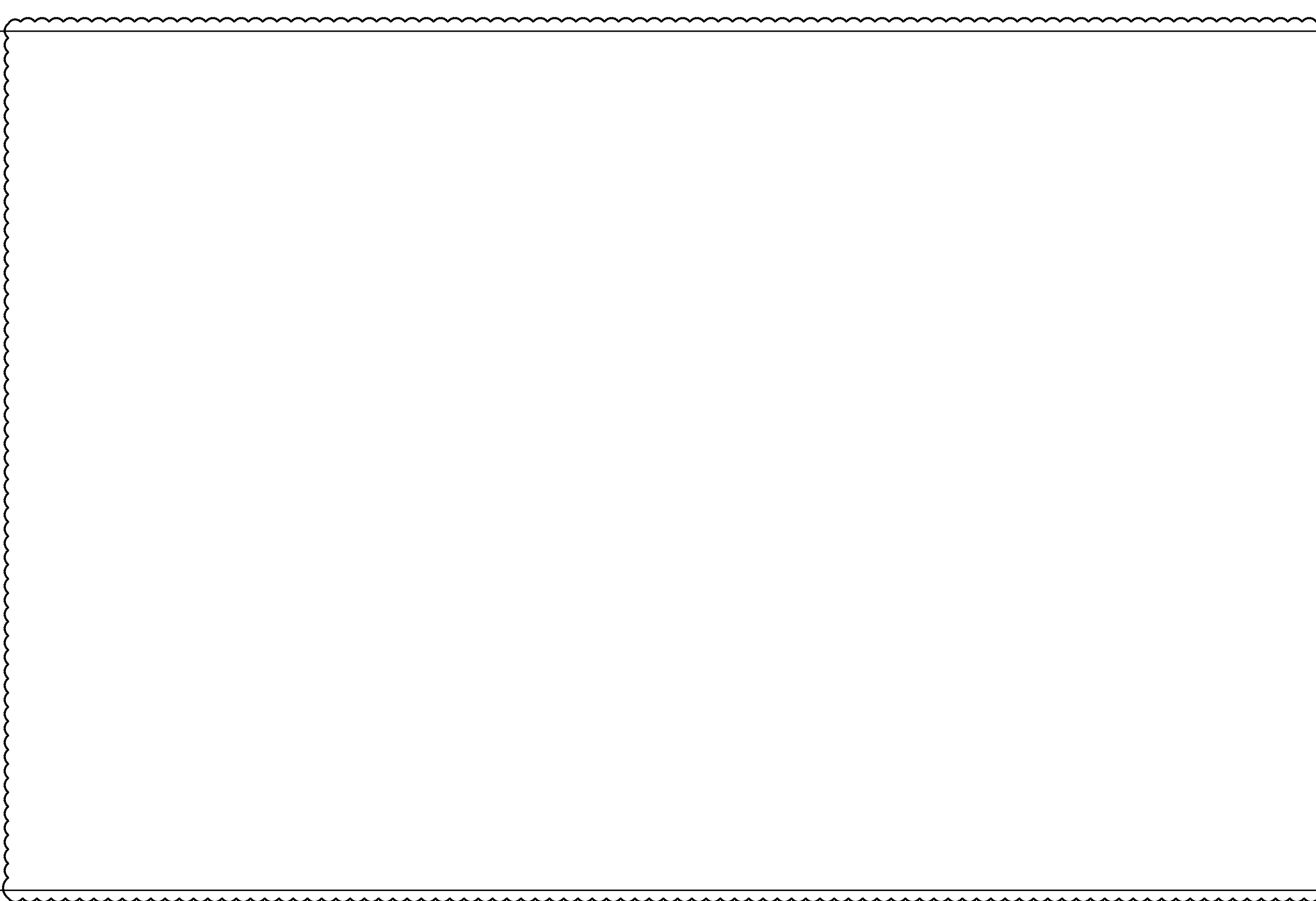
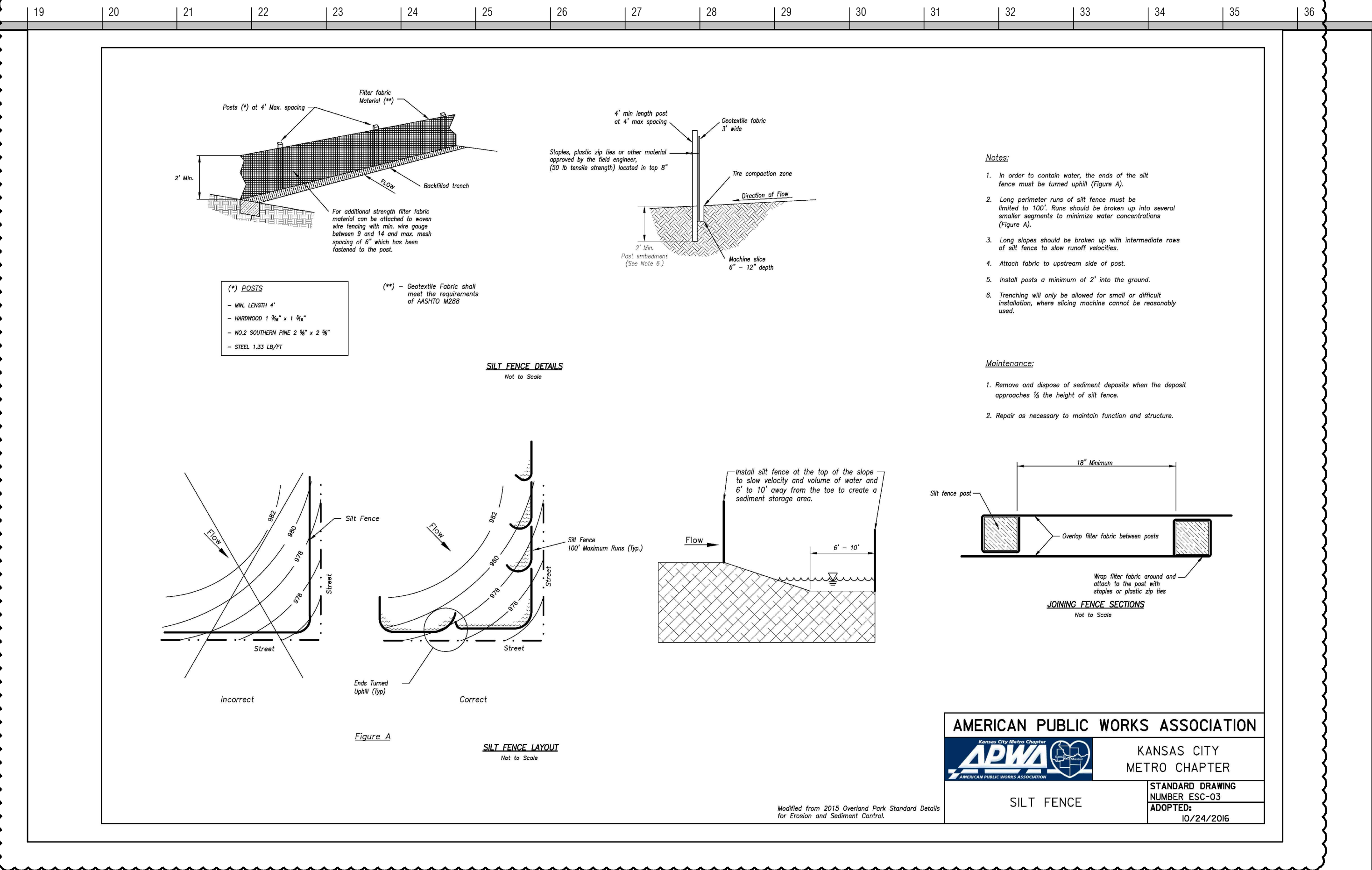
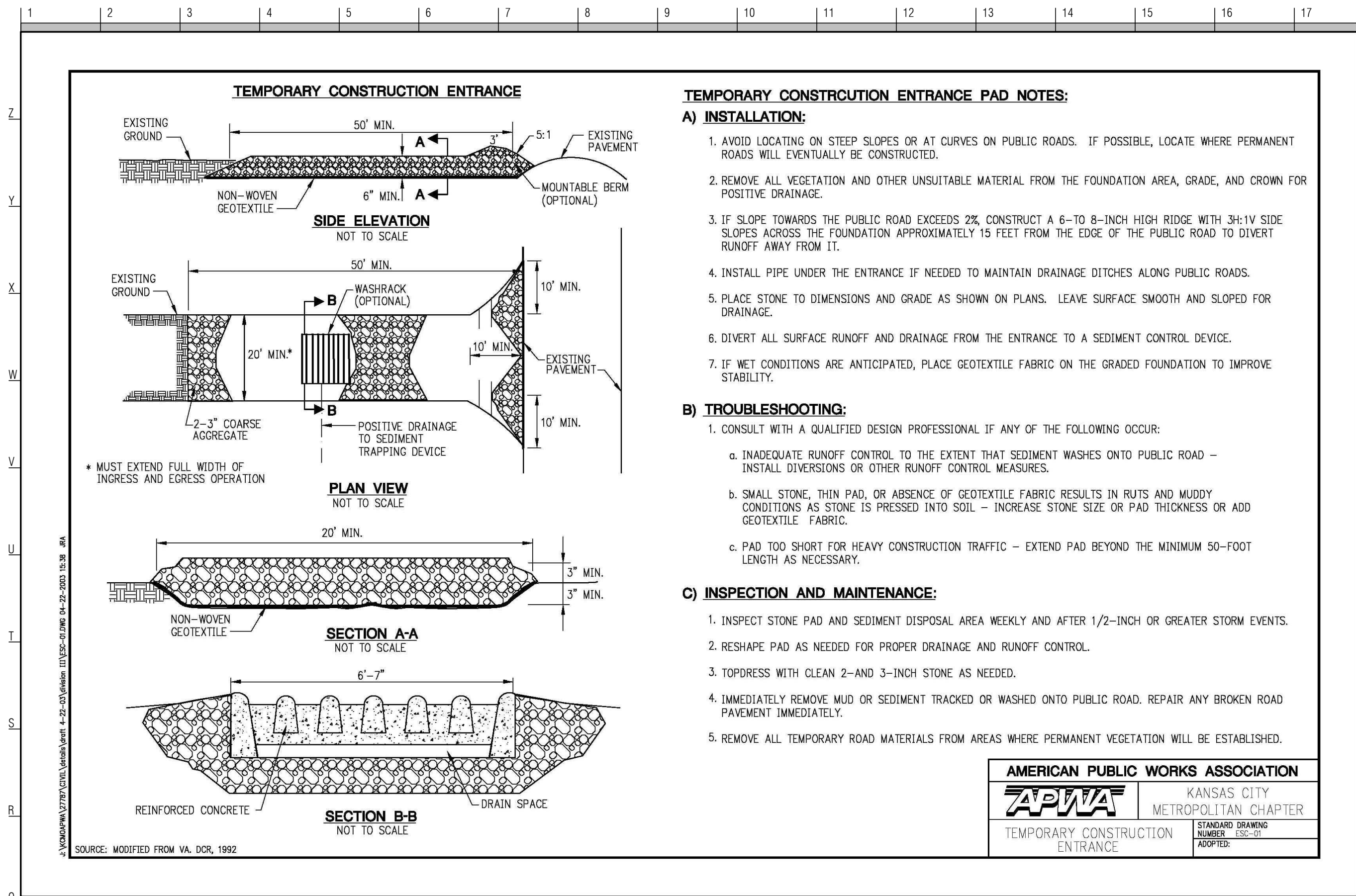
SITE GRADING PLAN

C002

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2460 Pershing Road, Suite 100, Jackson County, Kansas City MO 64108
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13426 West 99th Street, Johnson County, Lenexa, KS 66215
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Certificate of Authority
Tallafiero & Browne
1020 East 8th Street, Jackson County, Kansas City, MO 64106
616-235-2456

Architect
Structural Engineer
Civil Engineer

Lankford Fendler + Associates
1730 Walnut Street, Jackson County, Kansas City, MO 64108
816-221-1411

MEPF Engineer

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2	FDP RESPONSES	16 DEC 2021

Key Plan

Seal



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MO# E-2004011822

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EROSION CONTROL DETAILS

C003

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[illegible]

Seal of the State of Missouri Professional Engineer
 JEREMY B. KAHN
 7-23-21
 NUMBER
 A-2010035449
 ARCHITECT

Jeremy B Kahn - Architect
 MO# A-2010035449

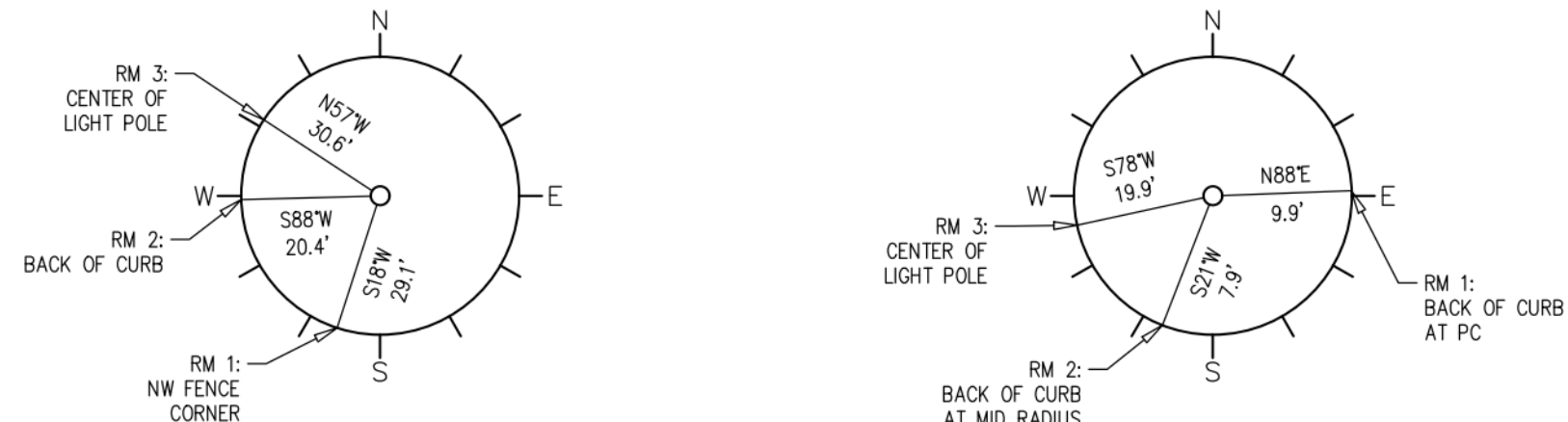
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Taliaferro & Browne, Inc.
Civil / Structural Engineering
and Surveying Services
1020 E. 8th STREET
KANSAS CITY, MISSOURI 64106
PH (816) 283-3456 FAX (816) 283-0810
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI LICENSE NO. 000446 KANSAS LICENSE NO. E-1481

11x17 1"=40'



CP #513	ELEV.= 985.89
N: 997,679.78	E: 2,801,018.65

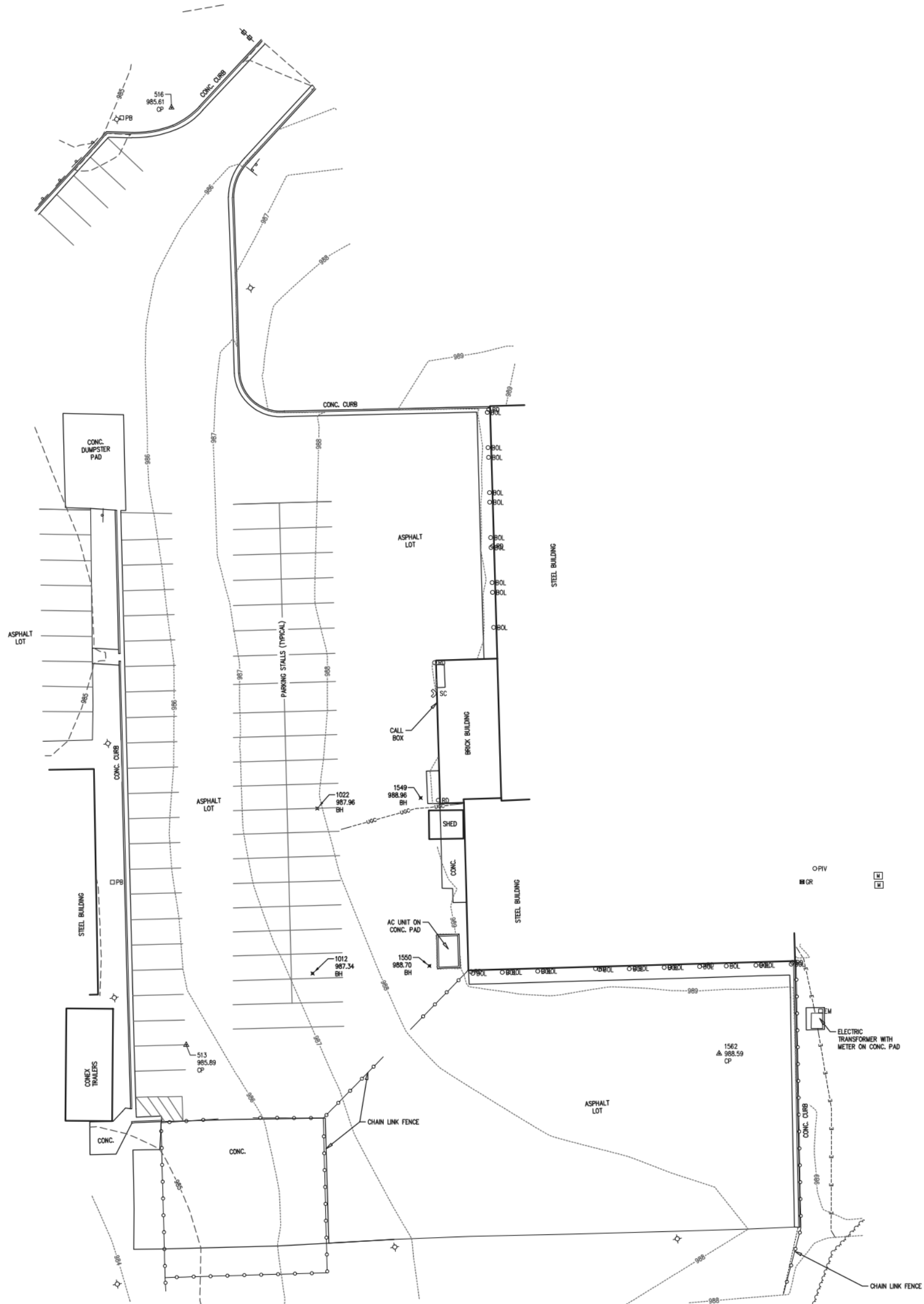
SET MAG NAIL IN ASPHALT IN SW QUAD OF CAMPUS PARKING LOT "F", \pm 27' NORTH OF FENCED AREA.

CP #516	ELEV.= 985.61
N: 998,013.10	E: 2,801,013.41

SET 1/2" I.B. W/T&B CONTROL CAP ON THE WEST SIDE OF LONG ROAD, AT THE NW QUAD OF DRIVE ENTRANCE TO THE "HT", HIGH TECHNOLOGY FACILITY AT LOT "F", ± 110' NNE OF THE NE CORNER OF THE CONCRETE DUMPSTER PAD.

LEGEND

- | | |
|---------------------------|---------------------------|
| BOLLO | BOLLARD |
| CURB INLET | |
| GAS METER | |
| FINISH | FINISH |
| GRATE | GRATE INLET |
| GI | GI |
| GI METER | GI METER |
| QUI | QUI POLE |
| GR | GAS REGULATOR |
| GR | GAS REGULATOR |
| QUI | QUI WIRE ANCHOR |
| MANHOLE | MANHOLE |
| POLYVINYL CHLORIDE | POLYVINYL CHLORIDE |
| REINFORCED CONC. PIPE | REINFORCED CONC. PIPE |
| ROOF | ROOF |
| RIGHT-OF-WAY | RIGHT-OF-WAY |
| R/W | R/W |
| SAN | SANITARY |
| SAN. | SAN. |
| SIAMSE CONNECTION | SIAMSE CONNECTION |
| STDM | STORM |
| TRUNK | TRUNK |
| PHONE DOME MAT | PHONE DOME MAT |
| TR | TRUNK RISER |
| UNKN | UNKNOWN |
| UNDERGROUND ELECTRIC | UNDERGROUND ELECTRIC |
| FIBER OPTICS | FIBER OPTICS |
| GAS | GAS |
| OVERHEAD ELECTRIC | OVERHEAD ELECTRIC |
| OVERHEAD TELEPHONE | OVERHEAD TELEPHONE |
| OVERHEAD CABLE TV | OVERHEAD CABLE TV |
| OVERHEAD UTILITIES | OVERHEAD UTILITIES |
| PROPERTY LINE | PROPERTY LINE |
| RIGHT-OF-WAY LINE | RIGHT-OF-WAY LINE |
| SANITARY SEWER | SANITARY SEWER |
| STORM SEWER | STORM SEWER |
| UNDERGROUND COMMUNICATION | UNDERGROUND COMMUNICATION |
| WATER | WATER |
| WATER SERVICE | WATER SERVICE |
| ELECTRIC MANHOLE | ELECTRIC MANHOLE |
| WATER METER | WATER METER |
| TELEPHONE MANHOLE | TELEPHONE MANHOLE |
| UTILITY POLE | UTILITY POLE |
| LIGHT POLE | LIGHT POLE |
| FIRE HYDRANT | FIRE HYDRANT |
| WATER VALVE | WATER VALVE |

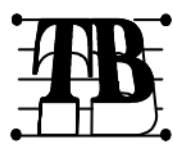


UNDERGROUND UTILITIES:

THE INFORMATION CONCERNING THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON, WHICH ARE NOT VISIBLE FROM THE SURFACE, HAVE BEEN TAKEN FROM THE RECORDS OF THE VARIOUS UTILITY COMPANIES AND FROM FIELD LOCATIONS AS MARKED BY LOCATORS REPRESENTING SAID UTILITY COMPANIES. THESE LOCATIONS ARE NOT TO BE CONSTRUED AS ACCURATE OR EXACT. WHERE MEASUREMENTS WERE NOT AVAILABLE, THE LOCATION OF THESE UNDERGROUND LINES HAVE BEEN SCALED FROM RECORD DRAWINGS. UTILITY LOCATIONS SHOULD BE VERIFIED IN THE FIELD PRIOR TO ANY CONSTRUCTION.

MISSOURI ONE CALL WAS NOTIFIED 06/08/21, TICKET NO. 211790836. THE FOLLOWING COMPANIES WERE NOTIFIED: ATT DISTRIBUTION, EVERGY, SPIRE MO WEST, CITY OF LEES SUMMIT WATER, CITY OF LEES SUMMIT SEWER, CITY OF LEES SUMMIT STORM SEWER AND LONGVIEW COMMUNITY COLLEGE.

MCC HT AUTOMOTIVE BUILDING ADDITION
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
TOPOGRAPHIC SURVEY



TALIAFERRO & BROWNE, INC.
CONSULTING ENGINEERS-SURVEYORS
1020 EAST 8TH ST., KANSAS CITY, MO, 64106
PH: (816) 283-3456 FAX: (816) 283-0841

DRAWN: KMS CHECKED: DLJ	DATE: 07/15/2021
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C:\USERS\OWNER\DESKTOP
02-4990-001-TS01.DWG, Survey Notes,

dwg: 02-4990V-TS01

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JEREMY
BOYD KAHM
7-23-21
NUMBER
A-2010035449
ARCHITECT

Jeremy B Kahm - Architect
MO # A-2010035449

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ARCHITECTURAL DEMOLITION PLANS

D100

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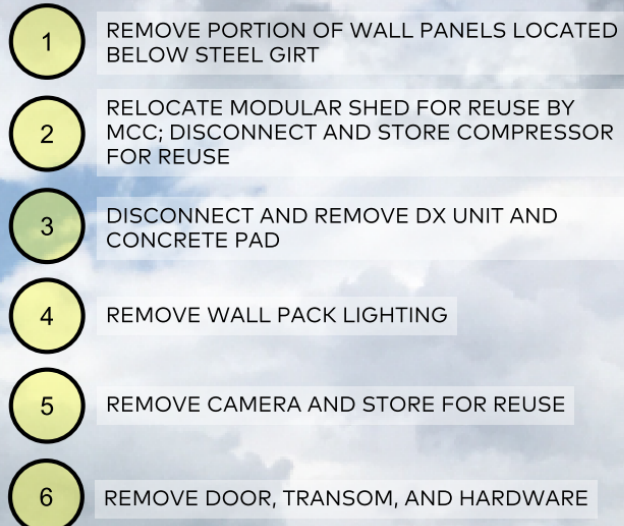
Jeremy B Kahm - Architect
MO# A-2010035449

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Profession Name: Architectural Corp.
Licensee Number: 000377

DEMOLITION PHOTOGRAPHS

D101

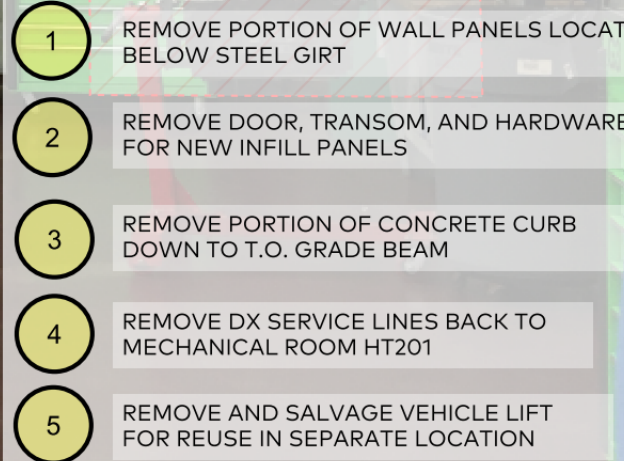
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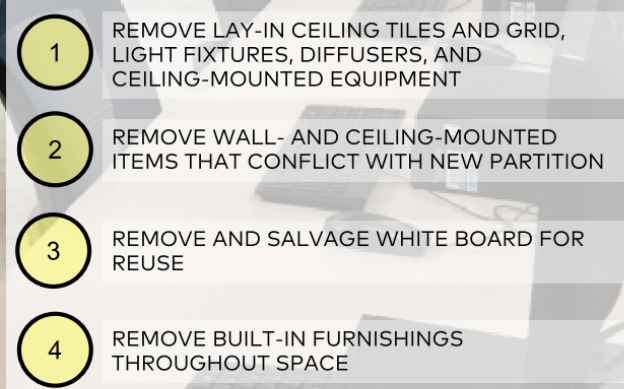
WEST HIGH BAY WALL - EXTERIOR



LEVEL 2 CLASSROOM - LOOKING NORTHWEST



WEST HIGH BAY WALL - INTERIOR



LEVEL 2 CLASSROOM - LOOKING SOUTHEAST

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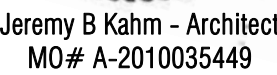
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ADA & INSTALLATION STANDARDS

A002

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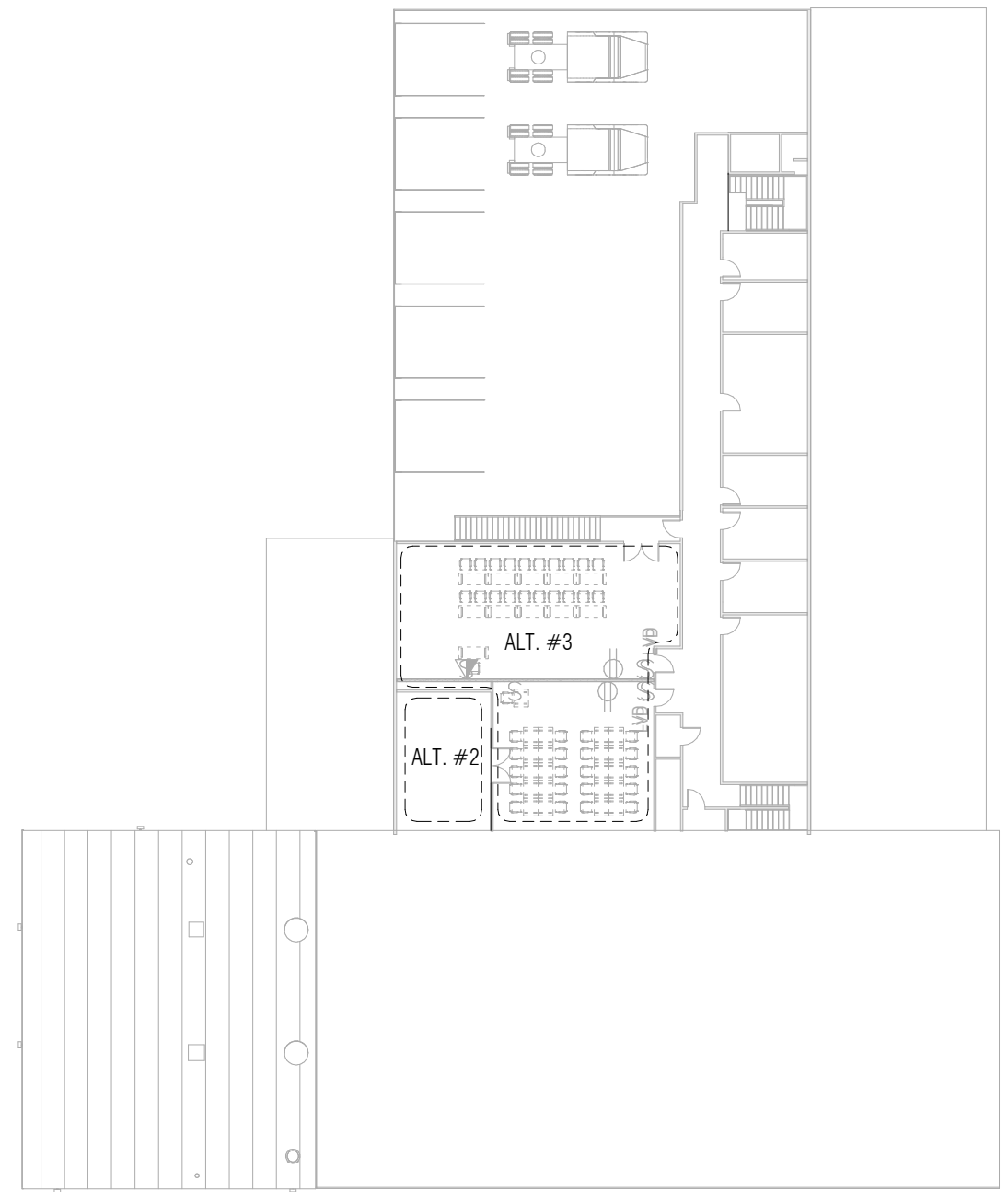
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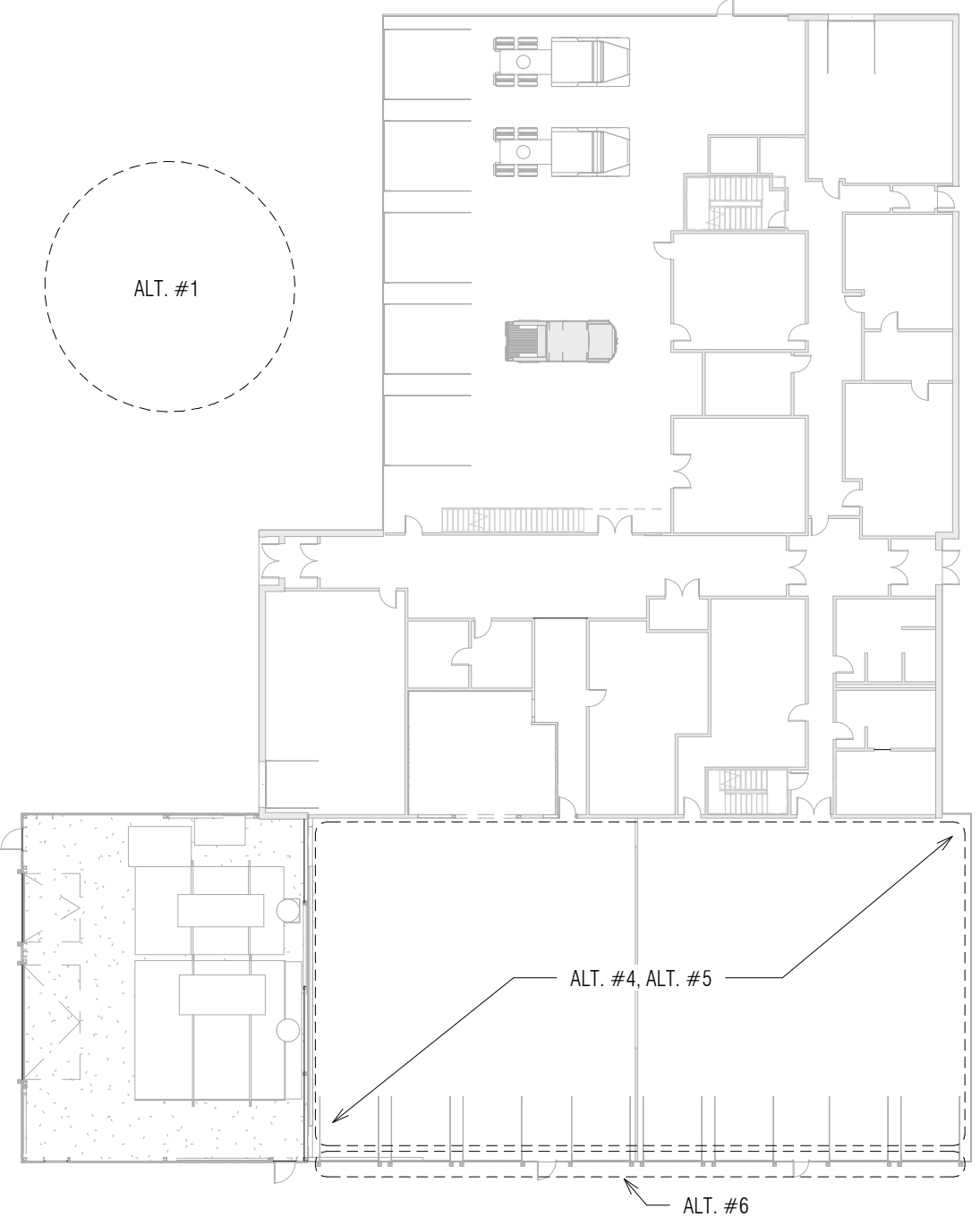
ARCHITECTURAL SITE PLAN & BID ALTERNATES

A050

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LEVEL 2



LEVEL 1

BID ALTERNATES

1. PARKING LOT
ALTERNATE: MILL AND OVERLAY ENTIRE HIGH TECHNOLOGY PARKING LOT.
BASE: PROVIDE MILL AND OVERLAY ONLY WHERE REQUIRED FOR BUILDING ADDITION.
2. LEVEL 2 AIR HANDLING UNIT
ALTERNATE: REPLACE AIR HANDLING UNIT IN ITS ENTIRETY WITH NEW UNIT.
BASE: REPLACE COOLING COIL ONLY ALONG WITH LINESETS AND DX UNIT AS SHOWN ON MECHANICAL DRAWINGS.
3. CLASSROOM RENOVATION
ALTERNATE: RENOVATE LEVEL 2 CLASSROOM INTO TWO SEPARATE ROOMS AS SHOWN ON A101.
BASE: NO WORK ON LEVEL 2 EXCEPT FOR AIR HANDLING UNIT.
4. EXISTING HIGH BAY LAB
ALTERNATE: PAINT EXISTING EXPOSED ROOF STRUCTURE USING SAME DRY-FALL SYSTEM AS NEW ADDITION.
BASE: EXISTING OVERHEAD FINISH TO REMAIN.
5. EXISTING HIGH BAY LAB
ALTERNATE: INSTALL NEW LIGHT FIXTURES THROUGHOUT HIGH-BAY SPACE IN CURRENT FIXTURE LOCATIONS, USING FIXTURE SPECIFIED FOR ADDITION.
BASE: EXISTING LIGHT FIXTURES TO REMAIN.
6. SOUTH BUILDING FACADE
ALTERNATE: REPLACE ALL EXISTING INSULATING METAL PANELS WITH PANELS TO MATCH THOSE USED AT THE ADDITION. INCLUDE ALL FLASHING AND TRIM. INCLUDE PRICE FOR FOUR (4) WALL PACK FIXTURES AND WIRING. INCLUDE REMOVAL AND REPLACEMENT IN KIND OF MAIN DOORS.
BASE: EXISTING FACADE TO REMAIN. RE: A051 FOR ADDITIONAL INFORMATION.

A26 Bid Alternate Diagrams

1° = 30'-0" RE: /



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



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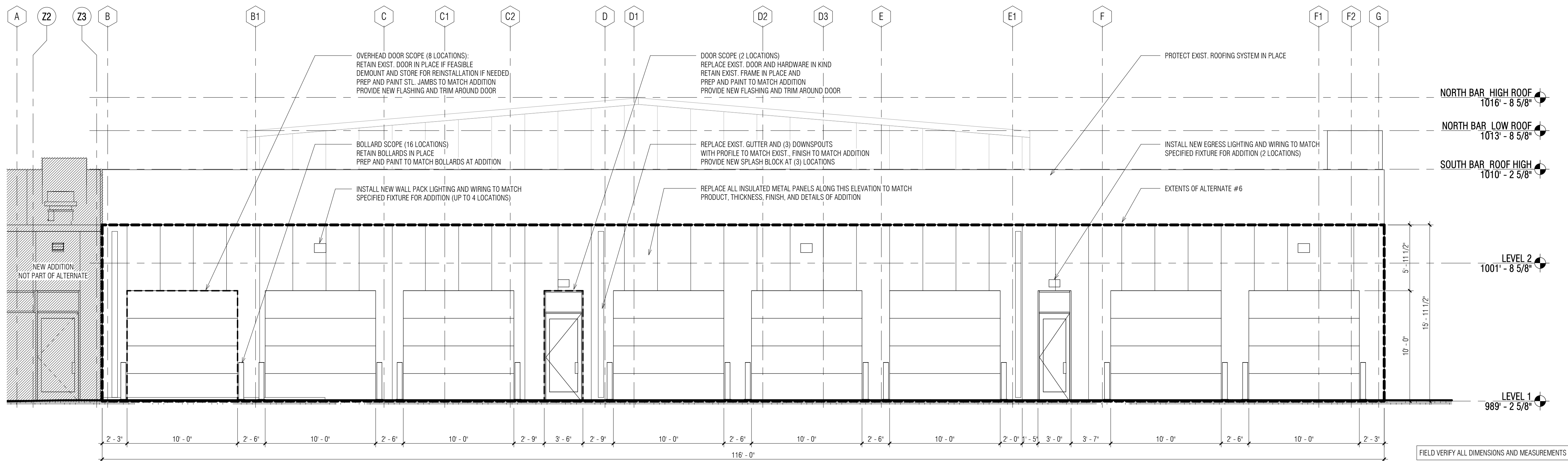
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ALTERNATE #6 ELEVATION

A051

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A1 Alternate #6 Elevation
3/16" = 1'-0" RE: / , ,

3/16" = 1'-0" RE: /

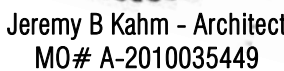
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1	Addendum #3	10/27/21

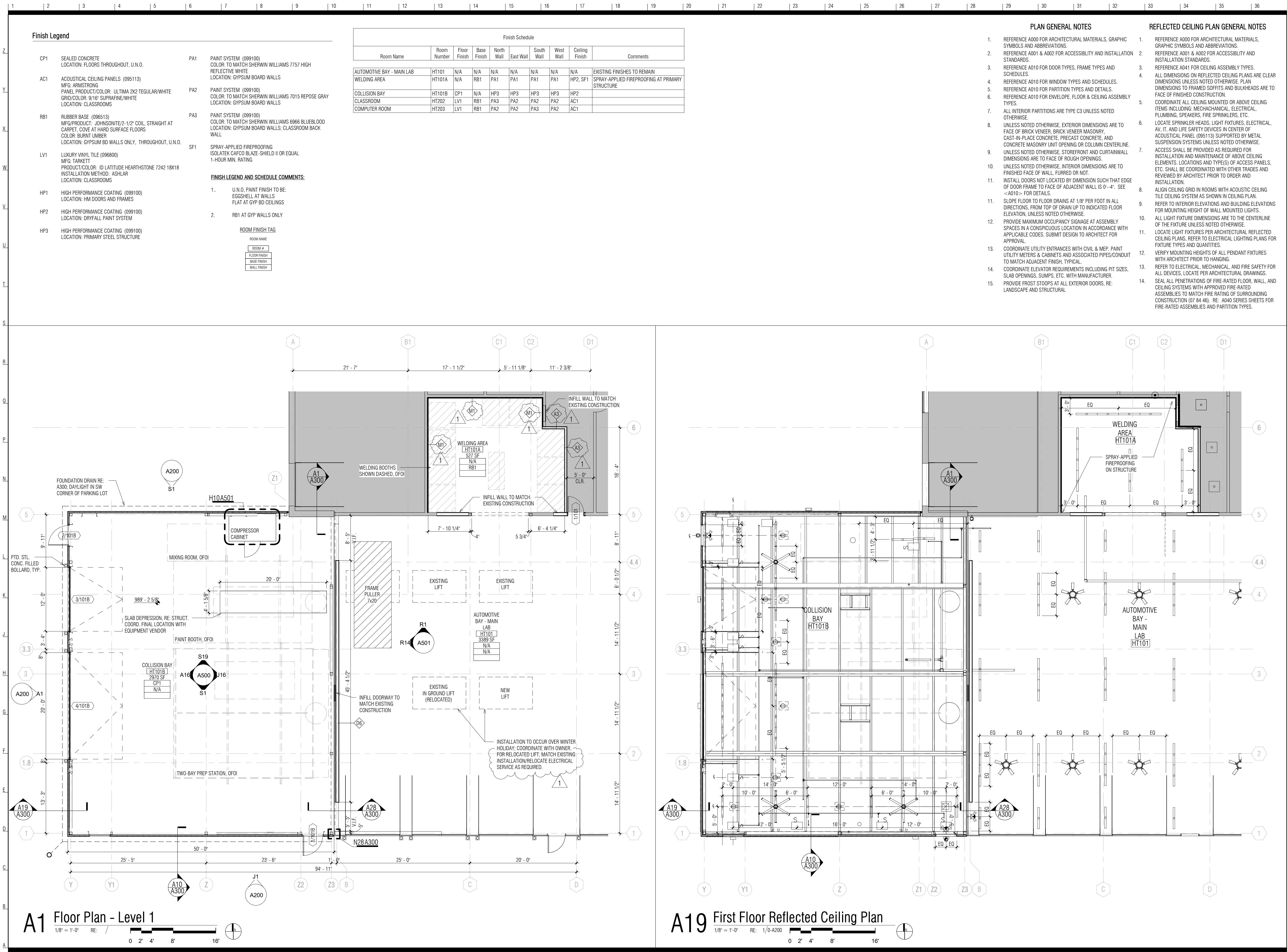


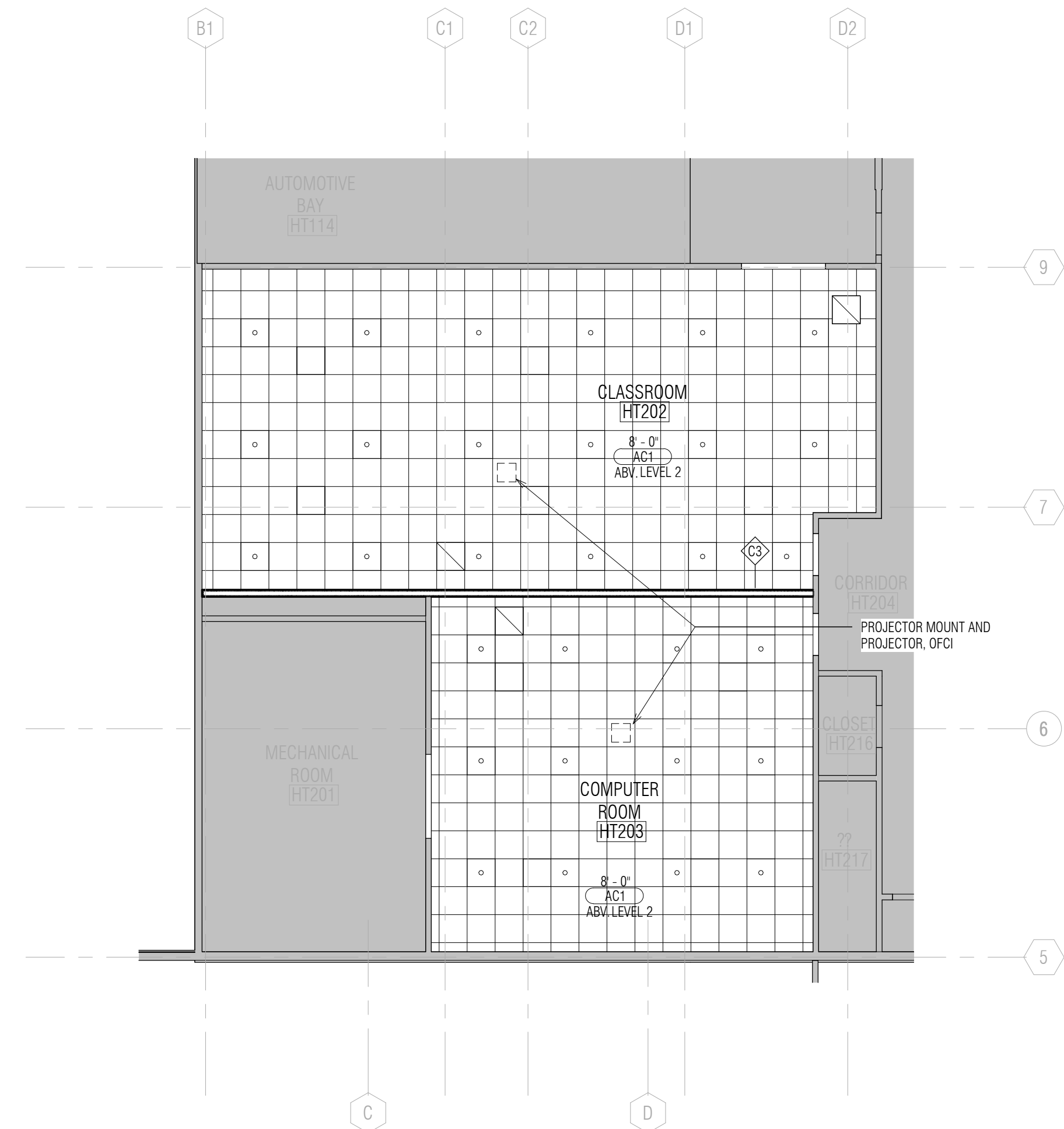
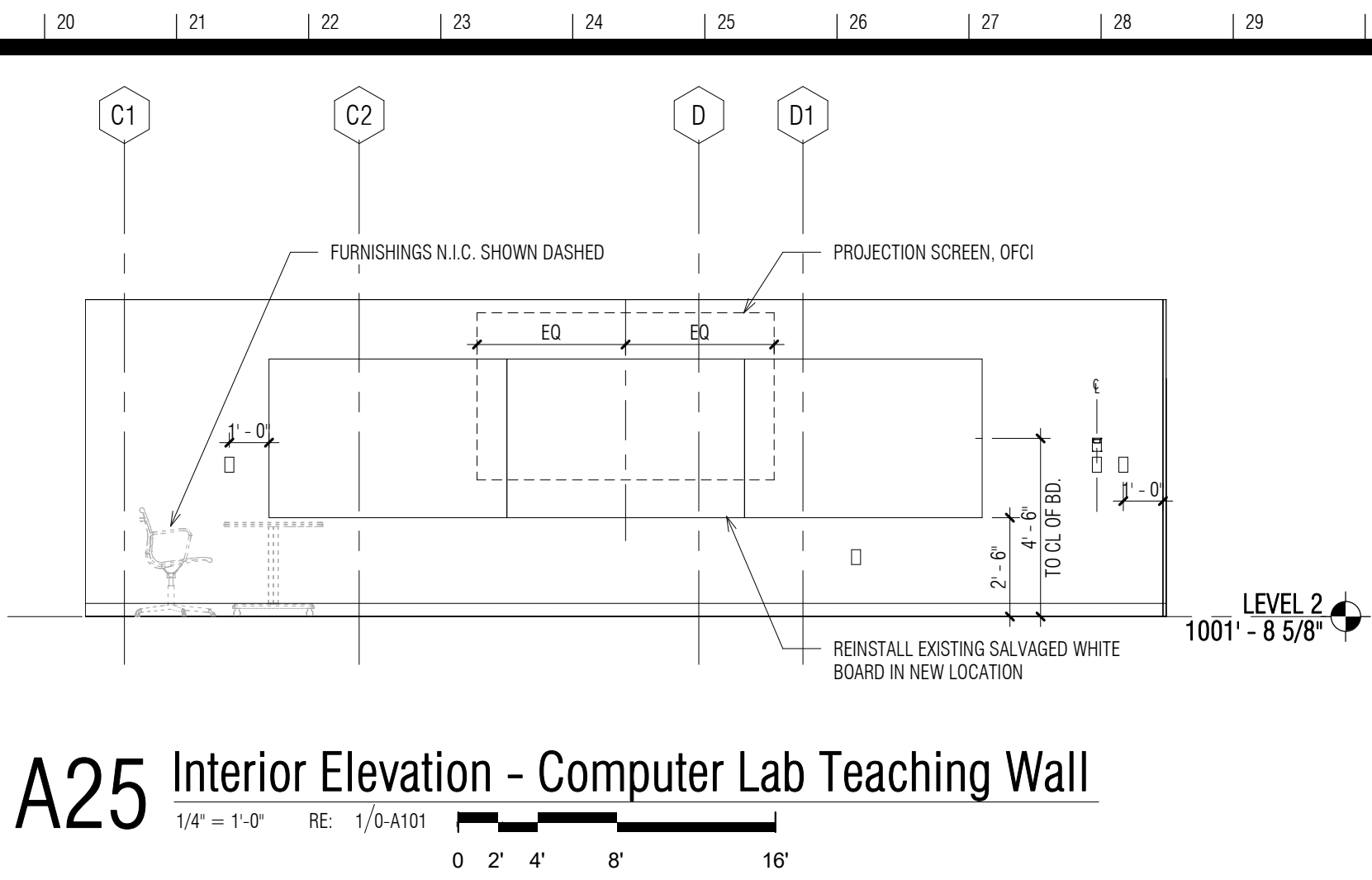
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FLOOR PLAN

A100

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Finish Legend			
CP1	SEALED CONCRETE LOCATION: FLOORS THROUGHOUT, U.N.O.	PA1	PAINT SYSTEM (099100) COLOR: TO MATCH SHERWIN WILLIAMS 7757 HIGH REFLECTIVE WHITE LOCATION: GYPSUM BOARD WALLS
AC1	ACOUSTICAL CEILING PANELS (095113) MFG: ARMSTRONG PANEL PRODUCT/COLOR: ULTIMA 2X2 REGULAR/WHITE GRID/COLOR: 9/16" SUPRAFINE/WHITE LOCATION: CLASSROOMS	PA2	PAINT SYSTEM (099100) COLOR: TO MATCH SHERWIN WILLIAMS 7015 REPOSE GRAY LOCATION: GYPSUM BOARD WALLS
RB1	RUBBER BASE (096513) MFG/PRODUCT: JOHNSONITE 1/2"-2" COIL, STRAIGHT AT CARPET, COVE AT HARD SURFACE FLOORS COLOR: BURNT UMBER LOCATION: GYPSUM BD WALLS ONLY, THROUGHOUT, U.N.O.	PA3	PAINT SYSTEM (099100) COLOR: TO MATCH SHERWIN WILLIAMS 6966 BLUEBLOOD LOCATION: GYPSUM BOARD WALLS; CLASSROOM BACK WALL
LV1	LUXURY VINYL TILE (096800) MFG: TARKETT PRODUCT/COLOR: ID LATITUDE HEARTHSTONE 7242 18X18 INSTALLATION METHOD: ASHLAR LOCATION: CLASSROOMS	SF1	SPRAY-APPLIED FIREPROOFING ISOLATEK CARFO BLAZE-SHIELD II OR EQUAL 1-HOUR MIN. RATING
FINISH LEGEND AND SCHEDULE COMMENTS:			
HP1	HIGH PERFORMANCE COATING (099100) LOCATION: HM DOORS AND FRAMES	1.	U.N.O. PAINT FINISH TO BE: EGGSHELL AT WALLS FLAT AT GYP BD CEILINGS
HP2	HIGH PERFORMANCE COATING (099100) LOCATION: DRYFALL PAINT SYSTEM	2.	RB1 AT GYP WALLS ONLY
HP3	HIGH PERFORMANCE COATING (099100) LOCATION: PRIMARY STEEL STRUCTURE	ROOM FINISH TAG	
ROOM NAME			

Finish Schedule										
Room Name	Room Number	Floor Finish	Base Finish	North Wall	East Wall	South Wall	West Wall	Ceiling Finish	Comments	
AUTOMOTIVE BAY - MAIN LAB WELDING AREA	HT1011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXISTING FINISHES TO REMAIN SPRAY-APPLIED FIREPROOFING AT PRIMARY STRUCTURE	
	HT101A	N/A	R01	PA1	PA1	PA1	PA1	HP2, SF1		
COLLISION BAY	HT101B	CP1	N/A	HP3	HP3	HP3	HP3	HP2		
CLASSROOM	HT202	LV1	R01	PA3	PA2	PA2	PA2	AC1		
COMPUTER ROOM	HT203	LV1	R01	PA2	PA2	PA2	PA2	AC1		

- | PLAN GENERAL NOTES | | REFLECTED CEILING PLAN GENERAL NOTES | |
|--------------------|--|--------------------------------------|---|
| 1. | REFERENCE A000 FOR ARCHITECTURAL MATERIALS, GRAPHIC SYMBOLS AND ABBREVIATIONS. | 1. | REFERENCE A000 FOR ARCHITECTURAL MATERIALS, GRAPHIC SYMBOLS AND ABBREVIATIONS. |
| 2. | REFERENCE A001 & A002 FOR ACCESSIBILITY AND INSTALLATION STANDARDS. | 2. | REFERENCE A001 & A002 FOR ACCESSIBILITY AND INSTALLATION STANDARDS. |
| 3. | REFERENCE A010 FOR DOOR TYPES, FRAME TYPES AND SCHEDULES. | 3. | REFERENCE A041 FOR CEILING ASSEMBLY TYPES. |
| 4. | REFERENCE A010 FOR WINDOW TYPES AND SCHEDULES. | 4. | ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE CLEAR DIMENSIONS, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS TO FRAMED SOFFITS AND BULKHEADS ARE TO FACE OF FINISHED CONSTRUCTION. |
| 5. | REFERENCE A010 FOR PARTITION TYPES AND DETAILS. | 5. | COORDINATE ALL CEILING MOUNTED OR ABOVE CEILING ITEMS INCLUDING: MECHANICAL/ELECTRICAL, PLUMBING, SPEAKERS, FIRE SPRINKLERS, ETC. |
| 6. | REFERENCE A010 FOR ENVELOPE, FLOOR & CEILING ASSEMBLY TYPES. | 6. | LOCATE SPRINKLER HEADS, LIGHT FIXTURES, ELECTRICAL, AV, IT, AND LIFE SAFETY DEVICES IN CENTER OF ACCESSIBLE SPACE. (095113) SUPPORTED BY METAL SUSPENSION SYSTEMS UNLESS NOTED OTHERWISE. |
| 7. | ALL INTERIOR PARTITIONS ARE TYPE C3 UNLESS NOTED OTHERWISE | 7. | ACCESS SHALL BE PROVIDED AS REQUIRED FOR INSTALLATION AND MAINTENANCE OF ABOVE CEILING ELEMENTS, LOCATIONS AND TYPE(S) OF ACCESS PANELS, ETC. SHALL BE COORDINATED WITH OTHER TRADES AND REVIEWED BY ARCHITECT PRIOR TO ORDER AND INSTALLATION. |
| 8. | UNLESS NOTED OTHERWISE, EXTERIOR DIMENSIONS ARE TO FACE OF BRICK VENEER, BRICK VENEER MASONRY, CAST-IN-PLACE CONCRETE, PRECAST CONCRETE, AND CONCRETE MASONRY UNIT OPENING OR COLUMN CENTERLINE. | 8. | ALIGN CEILING GRID IN ROOMS WITH ACOUSTIC CEILING TILE CEILING SYSTEM AS SHOWN IN CEILING PLAN. |
| 9. | UNLESS NOTED OTHERWISE, STOREFRONT AND CURTAINWALL DIMENSIONS ARE TO FACE OF ROUGH OPENINGS. | 9. | REFER TO INTERIOR ELEVATIONS AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHTS. |
| 10. | UNLESS NOTED OTHERWISE, INTERIOR DIMENSIONS ARE TO FINISHED FACE OF WALL, FURRED OR NOT. | 10. | ALL LIGHT FIXTURE DIMENSIONS ARE TO THE CENTERLINE OF THE FIXTURE UNLESS NOTED OTHERWISE. |
| 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. | 11. | LOCATE LIGHT FIXTURES PER ARCHITECTURAL REFLECTED CEILING PLANS, REFER TO ELECTRICAL LIGHTING PLANS FOR CEILING TYPES AND QUANTITIES. |
| 12. | SLOPE FLOOR TO FLOOR DRAINS AT 1/8" PER FOOT IN ALL DIRECTIONS, FRO TOP OF DRAIN UP TO INDICATED FLOOR ELEVATION, UNLESS NOTED OTHERWISE. | 12. | VERIFY MOUNTING HEIGHTS OF ALL PENDANT FIXTURES WITH ARCHITECT PRIOR TO HANGING. |
| 13. | PROVIDE MAXIMUM OCCUPANCY SIGNAGE AT ASSEMBLY SPACES IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH APPLICABLE CODES. SUBMIT DESIGN TO ARCHITECT FOR APPROVAL. | 13. | REFER TO ELECTRICAL, MECHANICAL, AND FIRE SAFETY FOR ALL DEVICES, LOCATE PER ARCHITECTURAL DRAWINGS. |
| 14. | COORDINATE UTILITY ENTRANCES WITH CIVIL & MEP. PAINT UTILITY METERS & CABINETS AND ASSOCIATED PIPES/CONDUIT TO MATCH ADJACENT FINISH, TYPICAL. | 14. | SEAL ALL PENETRATIONS OF FIRE-RATED FLOOR, WALL, AND CEILING SYSTEMS WITH APPROVED FIRE-RATED JOINTS. |
| 15. | PROVIDE FROST STOOPS AT ALL EXTERIOR DOORS, RE: LANDSCAPE AND STRUCTURAL | | |

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12/28/2021

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

PERMIT/BID DOCUMENTS

Issued: September 23, 202

[illegible]

Jeremy B Kahm - Architect
MO# A-2010035449

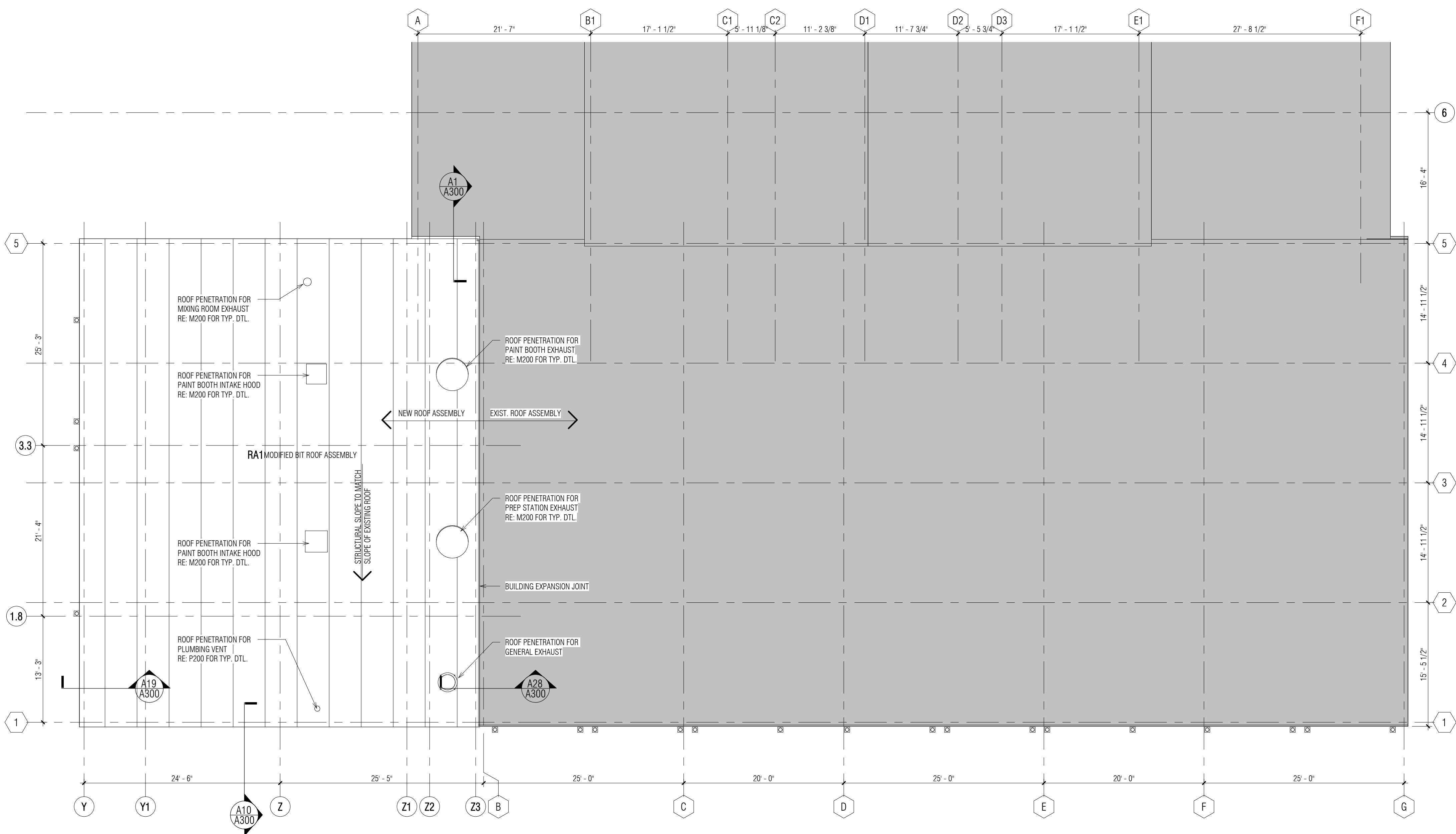
License Name: Berkebile Nelson Immenschuh McDowell Incorporated
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 Licensee Number: 000377

ROOF PLAN

A110

9/24/2021 11:04:25 AM

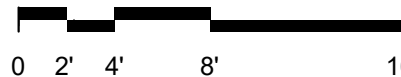
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A1 Roof Plan

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

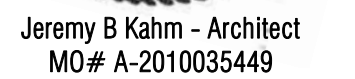
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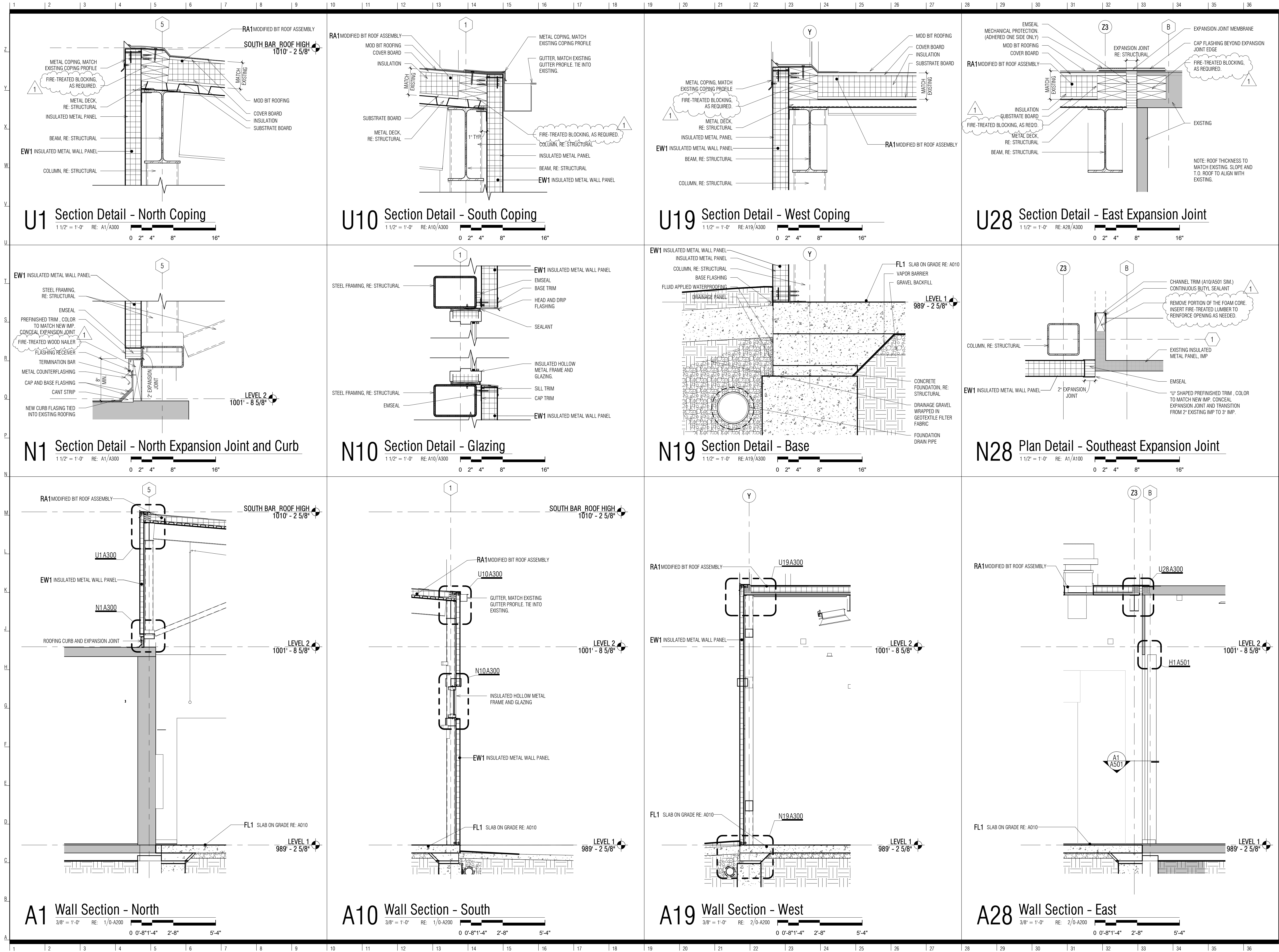
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EXTERIOR BUILDING ELEVATIONS

A200



bnim

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MO State Certificate of Authority #00235006

KH Engineering Group
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816-221-1411

Architect
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Structural Engineer
MO State Certificate of Authority #00235006

Civil Engineer
MO State Certificate of Authority #00235006

MEPP Engineer
MO State Certificate of Authority #00235006

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1	Addendum #3	10/27/21

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EXTERIOR WALL SECTIONS

A300

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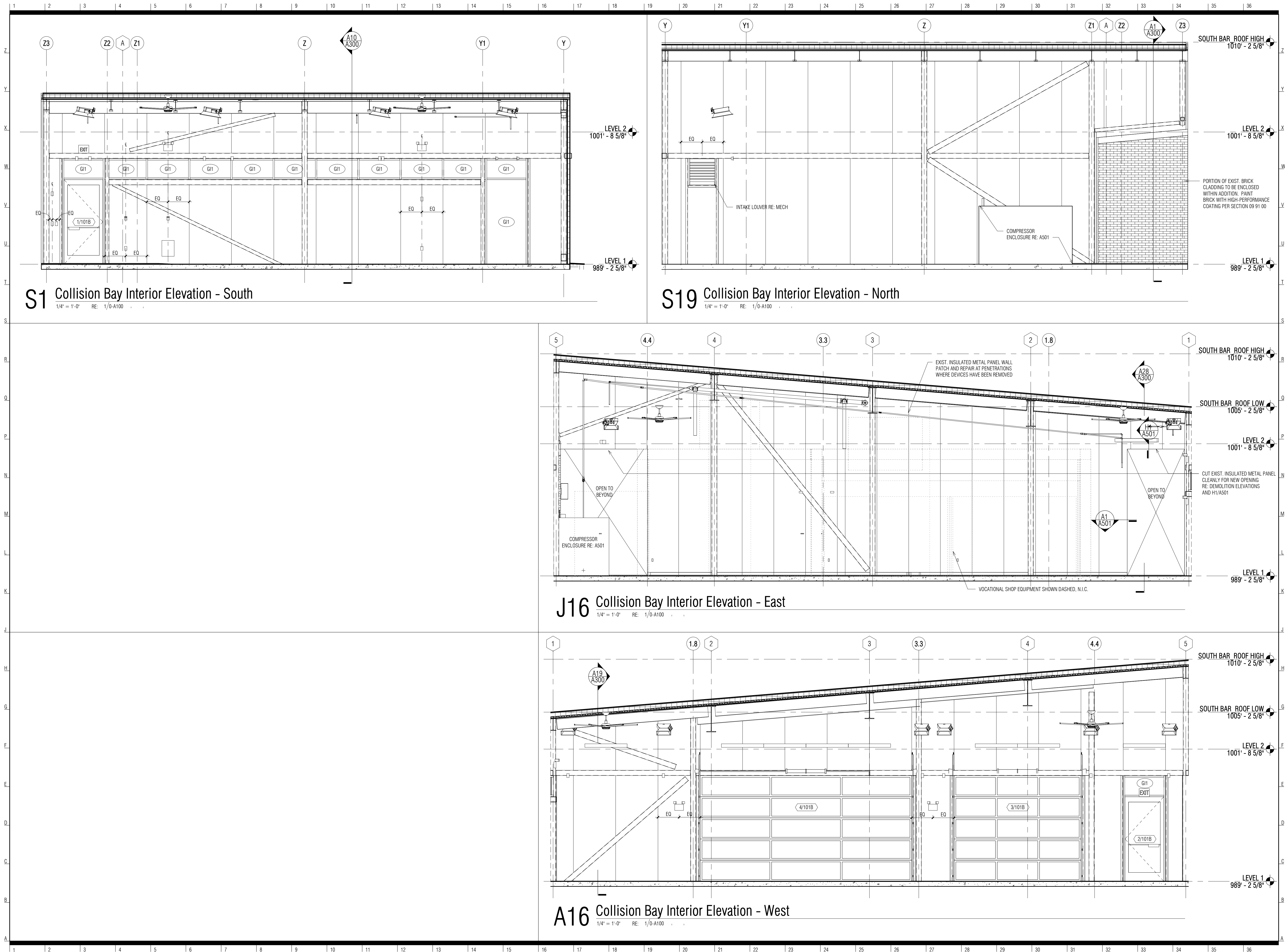
Jeremy B Kahm - Architect
MO# A-2010035449

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INTERIOR ELEVATIONS AND DETAILS

A500

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[illegible]

Seal of the State of Missouri Professional Engineer
 JEREMY B. KAHLM
 BOYD KAHLM
 7-23-21
 NUMBER
 A-2010035449
 ARCHITECT

Jeremy B Kahlm - Architect
 MO# A-2010035449

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 Profession Name: Architectural Corp.
 License Number: 000377

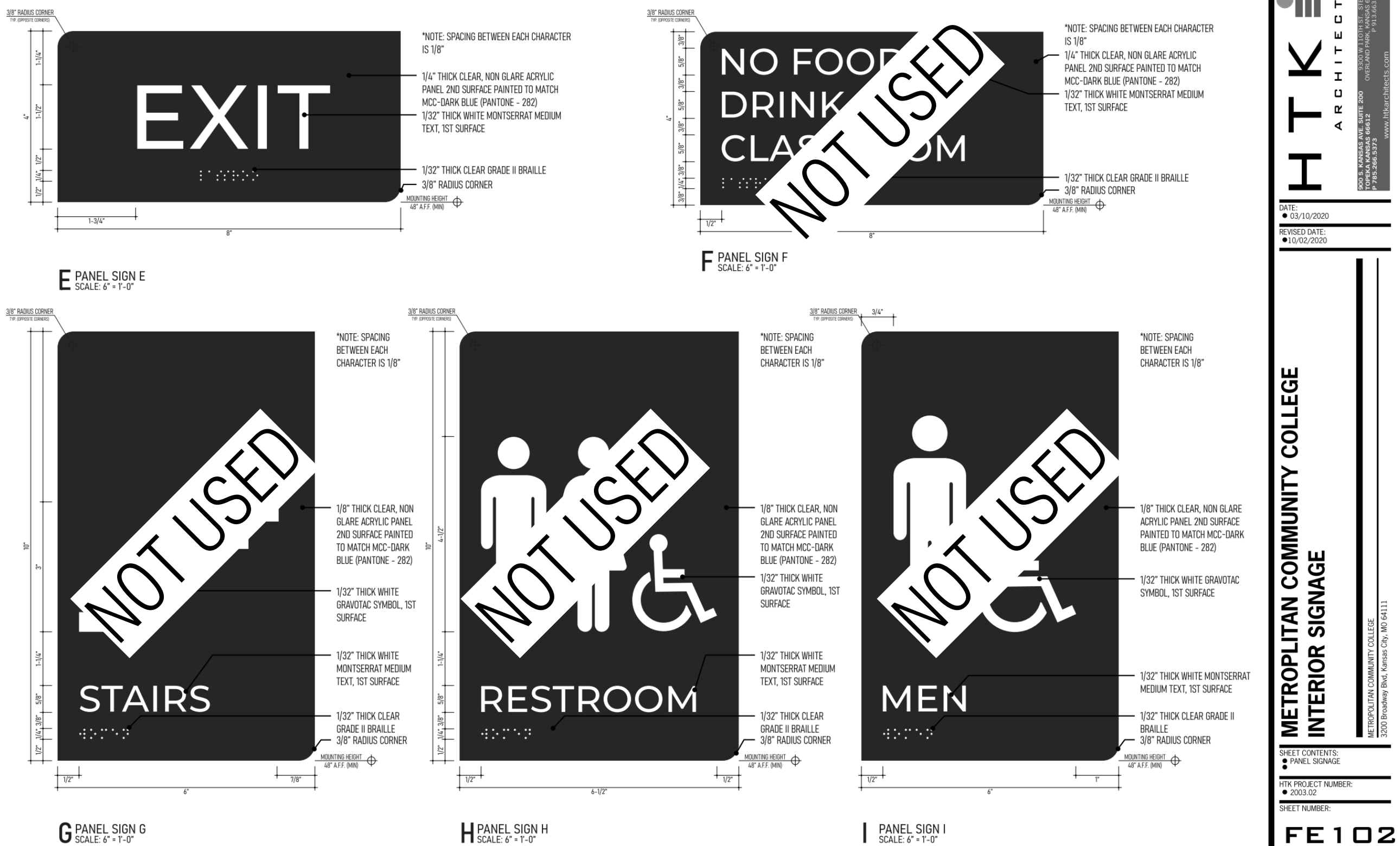
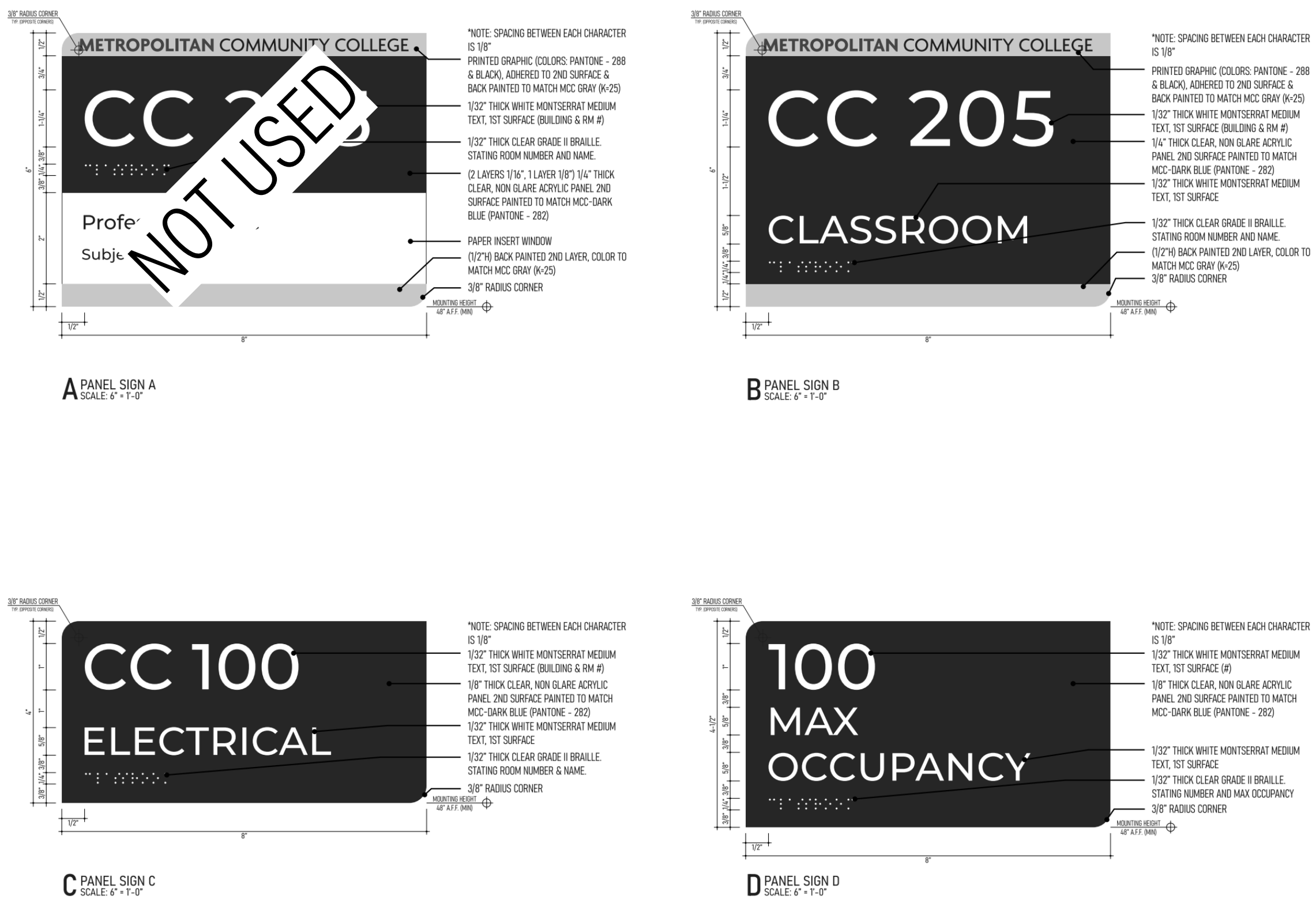
INTERIOR SIGNAGE

A650

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Room Signage Schedule			
Number	Name	Text on Sign	Sign Type
HT101	AUTOMOTIVE BAY - MAIN LAB	AUTOMOTIVE LAB	B
HT101A	WELDING AREA	WELDING LAB	B
HT101B	COLLISION BAY	COLLISION LAB	B
HT202	CLASSROOM	CLASSROOM	B
HT203	COMPUTER ROOM	COMPUTER LAB	B



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[illegible]

Seal

JEREMY BOYD KAHN
7-23-21
NUMBER
A-2010035449
ARCHITECT

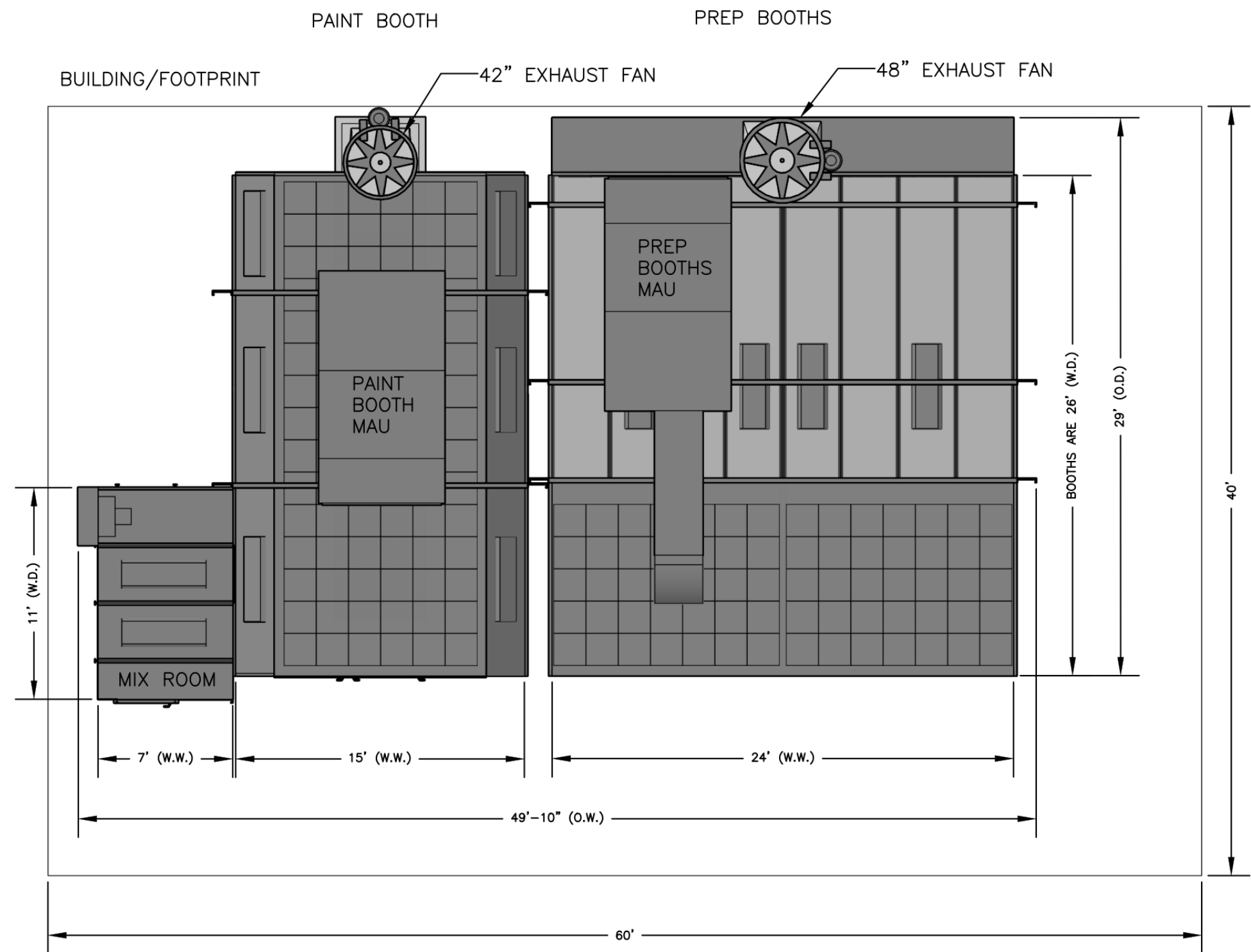
Jeremy B Kahn - Architect
MO# A-2010035449

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Profession Name: Architectural Corp.
License Number: 000377

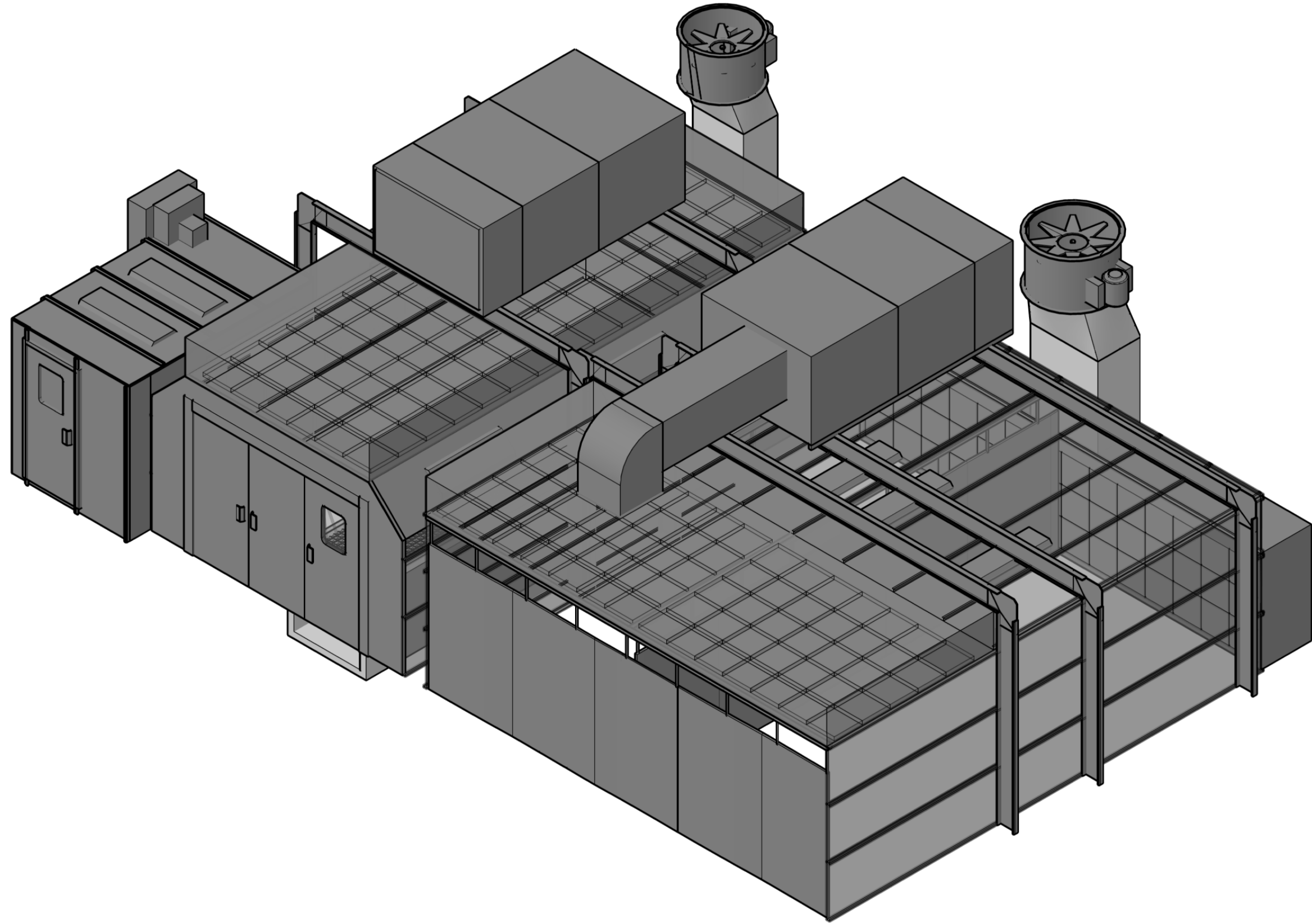
**VOCATIONAL SHOP EQUIPMENT (FOR
REFERENCE ONLY)**

A800

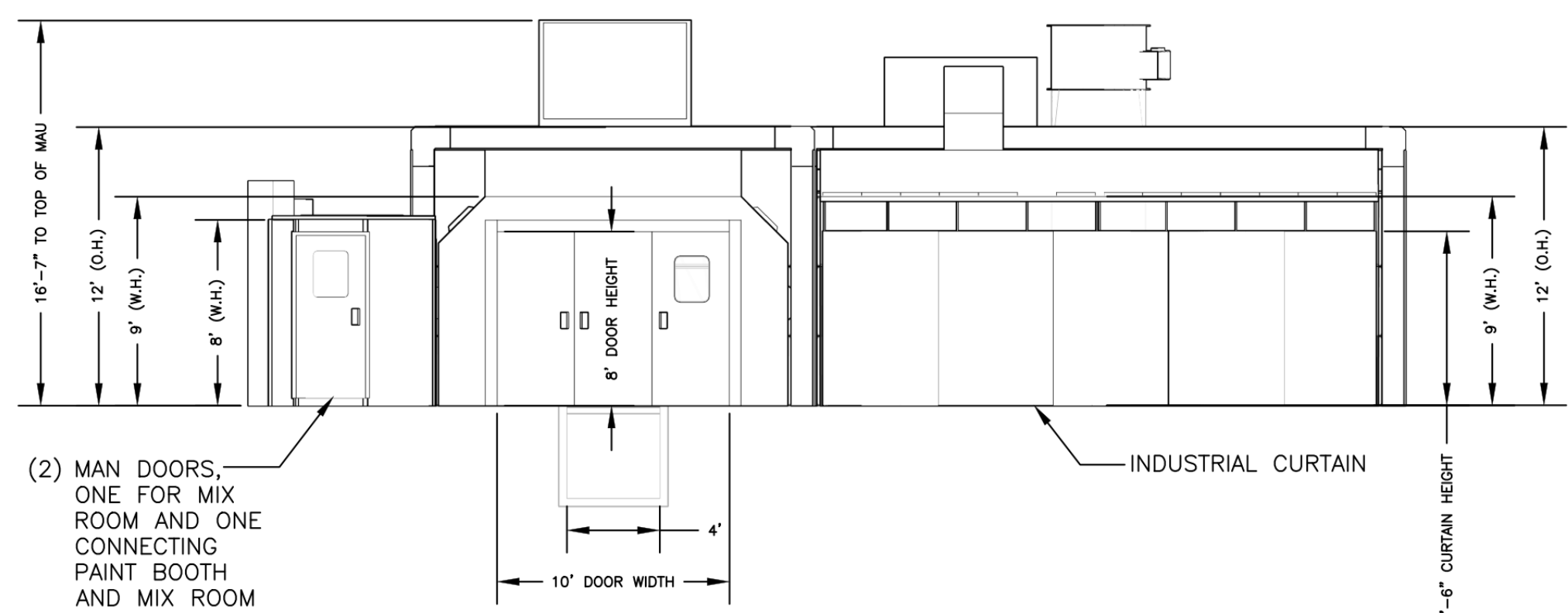
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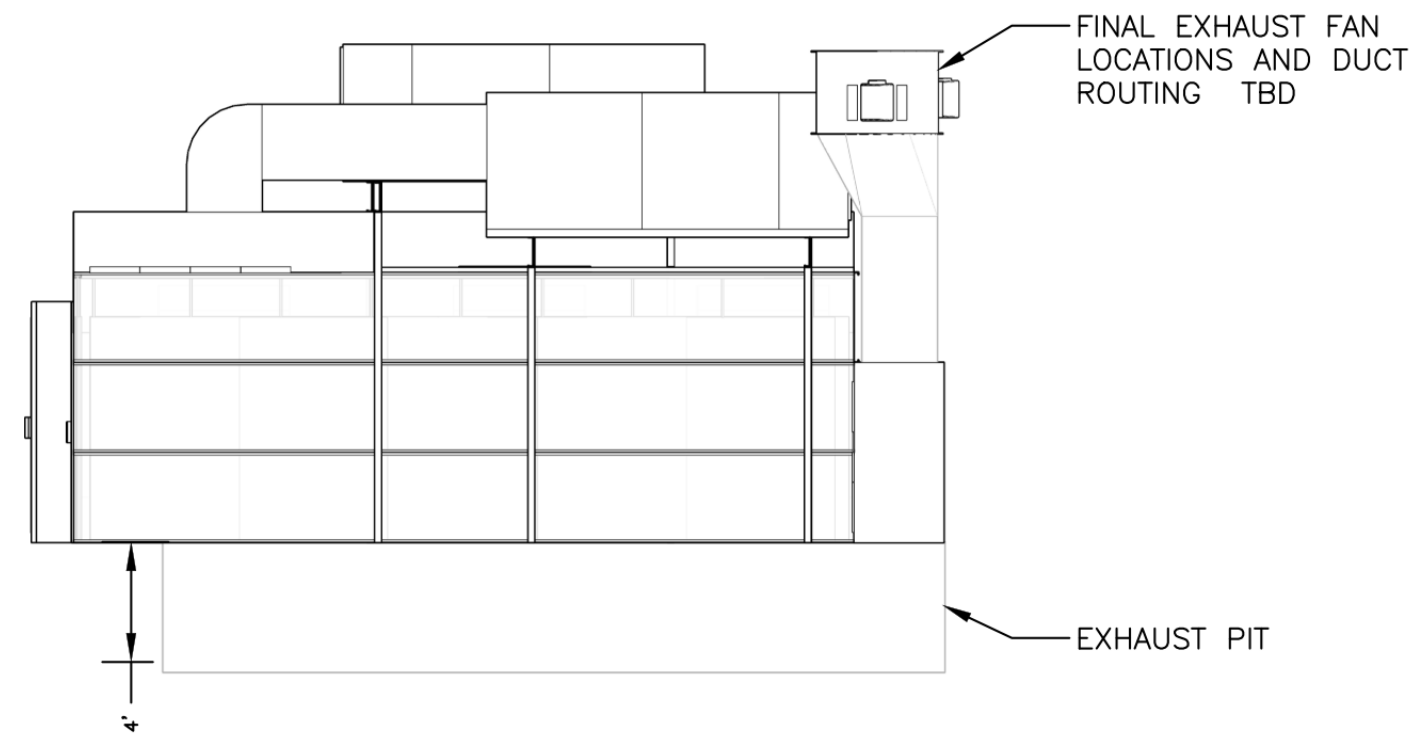
1 PLAN VIEW
Scale: 3/16" = 1'-0"



3 ISO VIEW NTS



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



4 SIDE VIEW
Scale: $\frac{3}{16}'' = 1'-0''$


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CA# 792654
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PERMIT/BID DOCUMENTS

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Kathleen J Hagen
MO# E-2000155328

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CONCRETE TYPICAL DETAILS

S003

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Seal

STATE OF MISSOURI
KATHLEEN J. HAGEN
REGISTERED PROFESSIONAL ENGINEER
NUMBER
E-2000155328
4.23.2021

Kathleen J Hagen
MO # E-2000155328

License Name: Bertekille Nelson Immenschuh McDowell Incorporated
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License Number: 009377

BRACE FRAME ELEVATIONS

S006

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TYPE MARK	PLATE DIMENSIONS
SPC1	(2) 1/2" x 6" x 2'-4"

NOTE:

1. SEE COLUMN SCHEDULE FOR BASE PLATE SIZE AND ANCHOR ROD MARK



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Addendum #3

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[illegible]

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		

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



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Addendum #3

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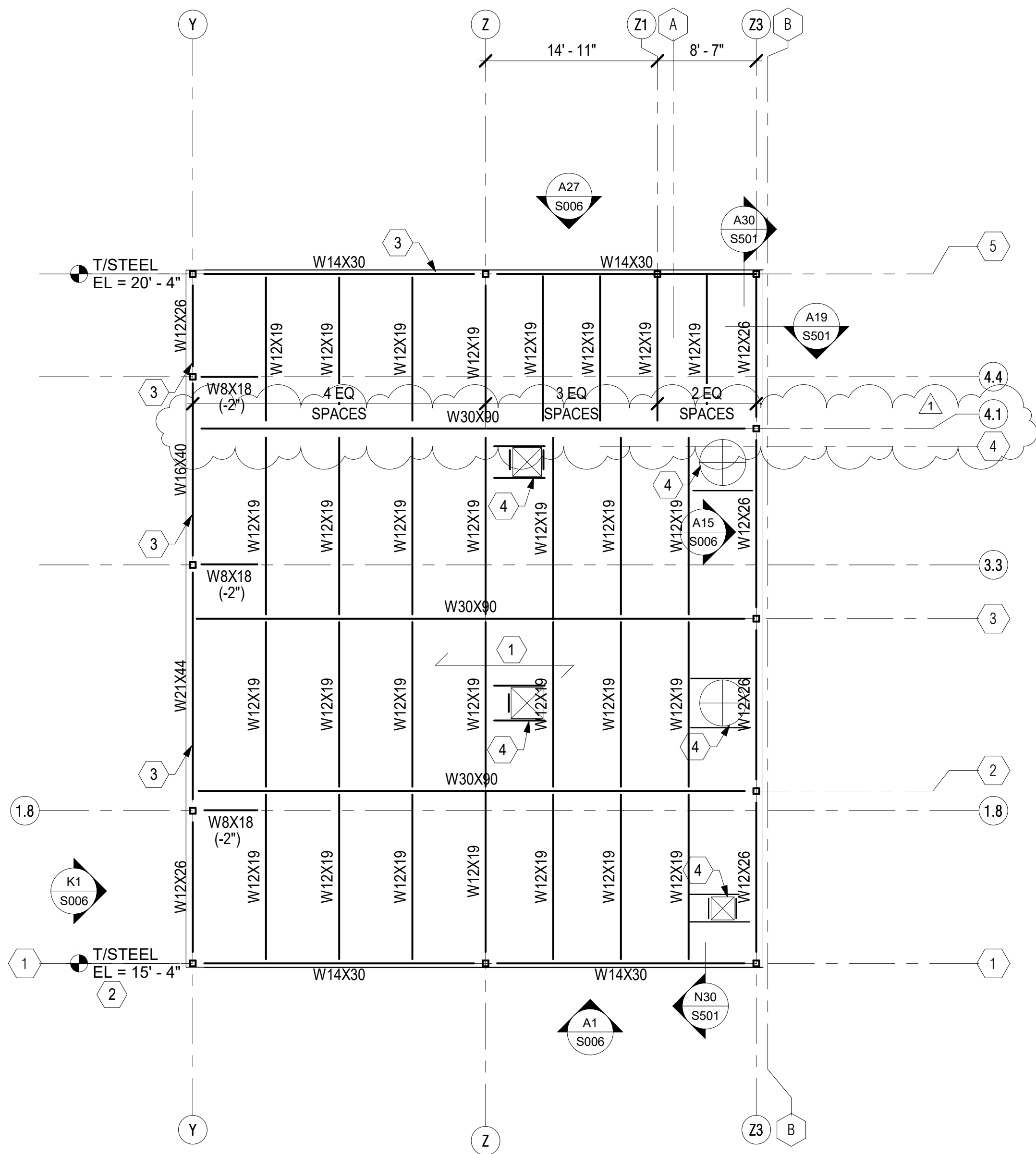
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MO# E-2000155328

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Profession Name: Architectural Corp.
License Number: 000377

FRAMING PLAN

S101

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- PLAN NOTES:

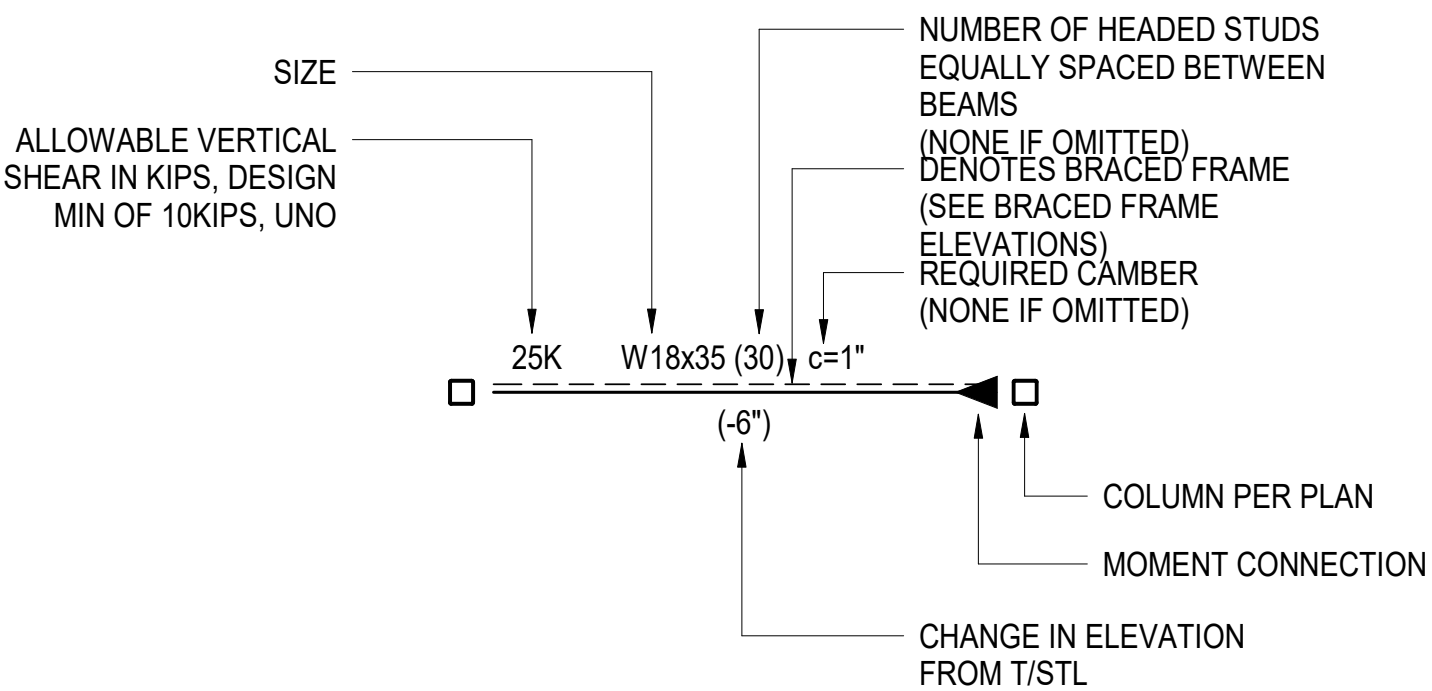
 - 1 1 1/2", 22 GAUGE WIDE RIB GALVANIZED ROOF DECK ATTACHED IN A 36/7 PATTERN w/ #12 TEK SCREWS AND (8) #10 TEK SCREWS FOR SIDE LAP FASTENERS. T/STEEL = SLOPE TO MATCH ARCH.
 - 2 GC TO VERIFY TOP OF STEEL AND ADJUST TO MATCH EXIST PER ARCH.
 - 3 HSS8X6X1/4 T/STEEL = 10' - 6" (8") HORIZONTAL
 - 4 ROOF PENETRATIONS PER ARCH & MECH. FRAME PER N29/S004

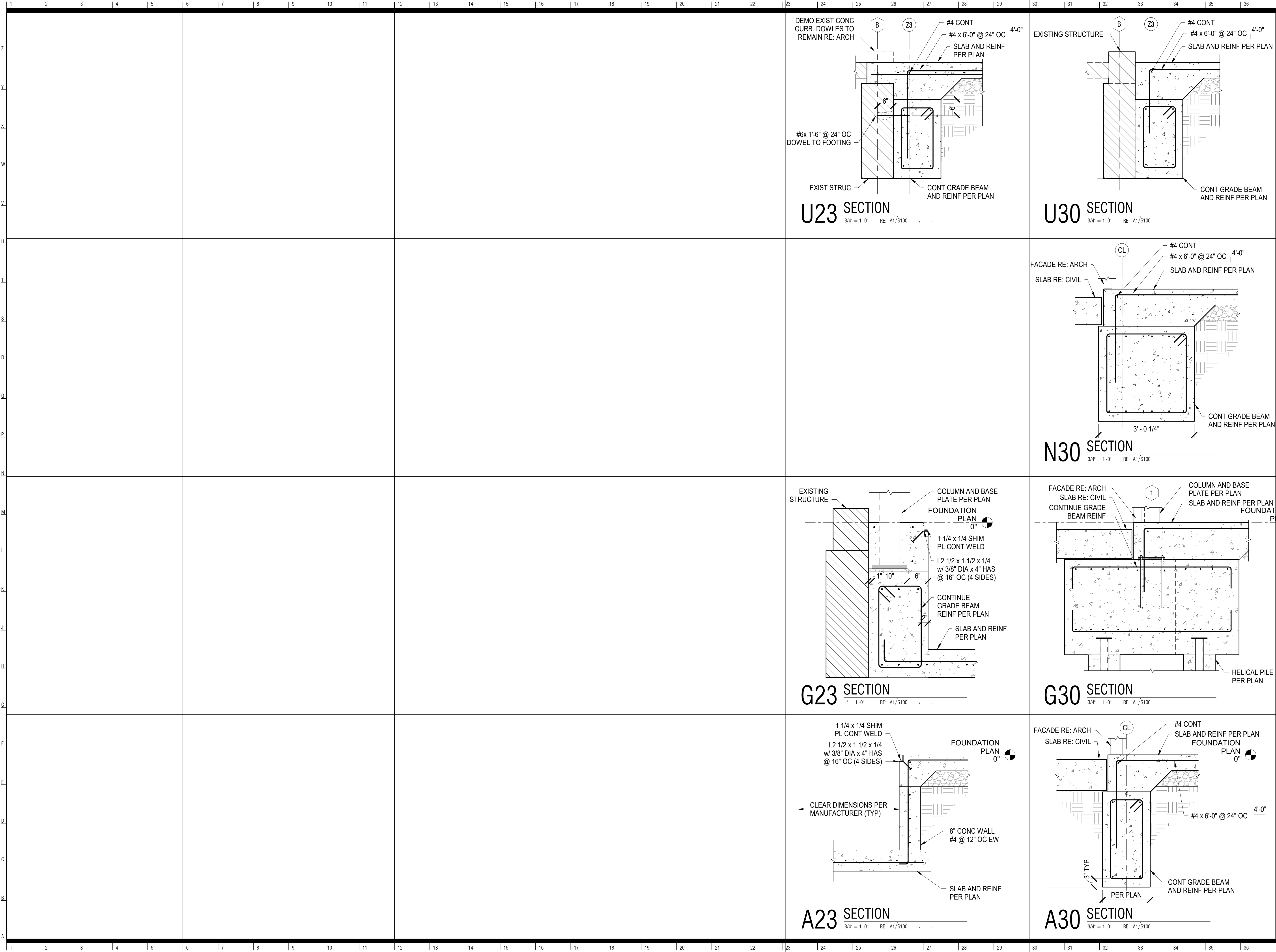
NOTES:

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.

STEEL FRAMING LEGEND:





BNIM Architects Architect
2460 East Pershing Road, Suite 100, Jackson County, Kansas City MO 64108
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MO State Certificate of Authority #00235006

KH Engineering Group Structural Engineer
13426 West 99th Street, Johnson County, Lenexa, KS 66215
913-825-9381
Certificate of Authority

Tallalero & Browne Civil Engineer
1020 East 8th Street, Jackson County, Kansas City, MO 64106
816-283-2466

Lankford Fendler + Associates MEPF Engineer
1730 Walnut Street, Jackson County, Kansas City, MO 64108
816-221-1411

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MO# E-2000155328

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Profession Name: Architectural Corp.
Licensee Number: 000377

SECTIONS & DETAILS

S500



**MCC Longview HT
Addition/Renovation**

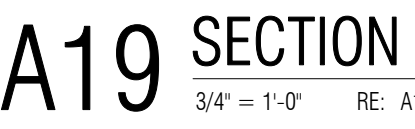
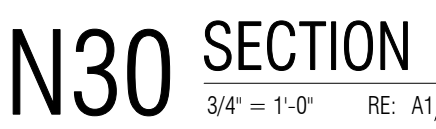
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PERMIT/BID DOCUMENTS[illegible]

SECTIONS & DETAILS

S501

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A

DIVISION 21, 22, 23 AND 26

GENERAL PROVISIONS

1.0 DESCRIPTION:

A. Divisions 21, 22, 23 and 26 shall be governed by all applicable provisions of the Contract Document.

B. The Contractor shall furnish, install and connect all materials, equipment, apparatuses, and incidentals required for a complete and working installation. For all systems shown and required, the Contractor shall supply all necessary labor, equipment, tools, insurance, and tax services, and shall assume full responsibility for all obligations associated with completion of work as provided by the Contract Documents.

2.0 STANDARDS, REGULATIONS AND CODES:

A. Work shall comply with the edition of the applicable standards, regulations and codes currently in force of all Federal, State and local authorities having jurisdiction. Where quantities, sizes, or other requirements indicated on the drawings or herein specified are in excess of the standard or code requirements, the specifications and/or drawings shall govern. In the absence of other applicable local codes, acceptable to the Architect/Engineer, the International Set of Codes and the National Electrical Code shall apply to this work.

B. The Contractor shall comply with rules and regulations of public utilities and municipal departments affected by connections of services. The Contractor shall pay all fees associated there with.

C. The Contractor shall be licensed to perform associated work in the municipality in which the project is located.

D. All products and types of construction shall meet or exceed the latest edition of applicable standards of manufacturer, testing, performance and installation.

E. Where indicated or required, comply with all provisions of the ADA and/or the ABA Accessibility Guidelines.

F. Where indicated or required, comply with all applicable provisions of energy and ventilation codes in force at the local jurisdiction.

3.0 GRAPHIC REPRESENTATION AND JOB CONDITIONS:

A. The Contract Documents shall serve as working drawings for the general layout of the various items of equipment; are diagrammatic unless specifically dimensioned, and do not necessarily indicate every required item. The contractor shall include all necessary components and accessories as required for a complete working system whether so specifically indicated or not.

B. Architectural and Structural drawings take precedence over all other drawings in the representation of the general construction work; any conflicts shall be resolved prior to commencing work. Failure to do so shall not be considered a basis for the granting of additional compensation.

C. Arrange work in a neat, well organized manner. Coordinate work with other trades involved, prior to commencing work. Sub-contractors shall work together to resolve any conflicts of space or routing.

4.0 GUARANTEES/WARRANTY:

A. The Contractor shall guarantee/warranty all work performed, including labor, materials and equipment furnished under this contract, against defects in materials and workmanship for a minimum period of one year from the date of the Owner's Representative Final Acceptance of the work. Provide extended warranties as noted in each section or specified for specific products.

5.0 WORKMANSHIP:

A. All work performed under this Contract shall provide a neat and "workmanlike" appearance when completed, to the satisfaction of the Owner's Representative. The complete installation shall function as designed and intended with respect to efficiency, capacity, and noise level, etc.

6.0 LOCAL CONDITIONS:

A. The Contractor shall carefully examine and become thoroughly familiar with local conditions, existing installations and all other conditions which may affect associated work. The Contractor shall locate all existing utilities and protect them during the execution of the work.

B. The Contractor shall carefully examine all contract documents including project drawings and specifications to become familiar with the type of construction, materials, and equipment to be used for all work and how it will affect the installation of this contract.

C. By the act of submitting a bid, the Contractor will be deemed to have made such examination, to have accepted such conditions, to have made allowance therefore, and included all costs in his proposal. Failure to determine existing conditions will not be considered a basis for the granting of additional compensation.

7.0 OPERATION DURING CONSTRUCTION:

A. The Contractor is responsible for the installation and operation, service and maintenance of all new equipment during construction and prior to acceptance by the Owner of the completed project. Warranty periods shall not commence until final acceptance by the Owner or Owner Representative.

B. The Contractor shall provide, at his own expense, all temporary utilities required to provide for and protect the work and as necessary to maintain an adequate work force unless use of existing facilities is specifically permitted.

8.0 SAFETY REGULATIONS:

A. All work shall be performed in compliance with all applicable governing safety regulations, including OSHA regulations. Provide safety lights, guards and signs required.

9.0 HOUSEKEEPING:

A. The Contractor shall be responsible for keeping stocks of material and equipment stored on the premises in a neat and orderly manner.

B. The Contactor shall clean and maintain their specific portions of the work on a daily basis or as specified in the General Conditions.

C. The Contractor shall remove from the premises all waste material present as a result of his work.

10.0 CONNECTION AND ALTERATION TO EXISTING SYSTEMS:

A. Connection to the existing building systems must be accomplished under this contract. System "downtime" due to connection shall be kept to an absolute minimum. The Owner's Representative shall judge if at what time, and for what length of time a shut-down can be tolerated.

B. Provide all temporary piping and wiring systems required during construction in order to keep all existing systems functioning.

C. Demolition, cutting and patching to restore surfaces to original condition as necessitated for access to work performed by the Contractor or his subcontractors shall be the responsibility of the Contractor.

11.0 SUBSTITUTIONS:

A. Materials, products and equipment described in the Bidding Documents established a standard of quality to be met by any proposed substitution.

B. Contractor's bids shall be based on the material identified or specified in the contract documents. Any proposals for substitution shall be made in writing to the Architect/Engineer with all supporting documentation, allowing adequate time for appropriate action. The products of other manufacturers may be accepted, if in the opinion of the Architect/Engineer, the substitute material is of quality as good or better than the material specified, and will serve with equal efficiency and dependability the purpose for which the items specified were intended. The burden of proof of equality is entirely upon the proposer.

C. Refer to Division 1 requirements for additional substitution procedures.

D. Wherever substitutions alter the design or space requirements, the Contractor shall be responsible for confirming all substituted equipment and materials fit within the allocated space while maintaining code required access and clearance. He shall include all associated cost items of the revised design and of construction work required by his or other trades affected by the proposed substitution.

12.0 SHOP DRAWINGS AND PRODUCT DATA:

A. The checking of shop drawings is a gratuitous assistance and in no way relieves the Contractor of responsibility for deviations from the Contract Documents. The Contractor shall submit project shop drawings electronically in PDF format, unless indicated otherwise.

B. Shop drawings and catalog data on all major items of equipment and apparatus, and such other illustrative materials as may be considered necessary by the Owner's Representative shall be submitted by the Contractor in adequate time to prevent delay and changes during construction.

C. Refer to Architectural Documents for additional shop drawing submission procedures.

13.0 PROJECT CLOSEOUT DOCUMENTATION

A. Operating and Maintenance Brochure:

1. On completion of the project, the Contractor shall provide project manuals electronically (PDF format unless otherwise instructed) containing complete product information for all installed or provided equipment and components including cut sheets, parts lists, wiring and installation diagrams, operating, service and lubrication instructions. Provide manufacturer guarantee and warranty certificates.

B. Record Drawings:

1. On completion of the project, the Contractor shall provide record drawings with all field changes clearly and neatly noted. The original routing and layout shall be clearly marked out. References to other documents, drawings, addenda, RFI's or otherwise for additional information shall not be accepted.

2. The Contractor shall submit record drawings electronically in PDF format (unless otherwise instructed).

14.0 FOUNDATIONS AND SUPPORTS:

A. The Contractor shall provide concrete bases, hangers and foundations for all machinery and equipment specified or shown in this contract, including fans, air conditioning units, water heaters, pumps, motors, electrical gear, etc., unless specifically noted otherwise.

B. All hangers, brackets, clamps, etc., shall be of standard weight steel. Perforated strap hangers shall not be used in any work. When two (2) or more pipes or conduits are run parallel, or where ducts interfere with the proper location of hangers, they may be supported on trapeze hangers. Other hangers shall be hinged ring malleable iron, by Grinnell or Fee and Mason or approved equal with rods and hanger adjusters for adequate size to carry the loads imposed. All piping, ductwork and conduit systems shall each be independently supported from other systems and from equipment so that no weight is born by equipment.

C. The Contractor shall take all precautions against excessive noise or vibration by isolating the various items of equipment from the building structure. Provide flexible connectors where indicated and at all rotating equipment and for equipment mounted on vibration isolators.

15.0 CUTTING AND PATCHING:

A. All necessary cutting, drilling and patching shall be provided by this Contractor. Structural members shall not be disturbed without prior approval of the Structural Engineer and/or the Owner's Representative. All areas and surfaces disturbed by work performed under this Contract shall be neatly repaired and refinished to the condition of adjoining surfaces in a manner suitable to the Owner's Representative.

16.0 SLEEVES AND ESCUTCHEONS:

A. Penetrations thru walls and floors shall be as detailed.

B. Where not otherwise shown, penetrations shall conform to the following:

1. Where pipes or conduits pass through interior partitions, galvanized steel pipe sleeves or galvanized steel sheet sleeves shall be used.

2. Where pipes or conduits pass thru concrete floors and walls, walls below grade or exterior walls and slabs on grade, cast iron or steel pipe sleeves shall be used.

C. Sleeves through interior non-rated walls, including walls indicated as sound partitions, shall be packed with fiberglass or mineral wool and caulked.

D. Sleeves in exterior walls or thru slabs on grade shall have lead and oakum or mechanical link seals, Thunder line or acceptable equivalent.

E. Penetrations of fire rated construction shall be made with a UL listed fire penetration assembly suitable for the rating at each location. Where required, sleeves through fire rated structure shall be fire barrier caulked with putty strip or sheet by 3M, Hilti or acceptable equal.

F. Provide steel (dry locations) or brass (damp locations) escutcheons to completely cover pipe penetration holes in floors, walls, or ceilings. Provide pipe escutcheons with nickel or chrome finish for occupied areas, prime paint finish for unoccupied areas, brass for exterior.

17.0 MOTORS, CONTROLS AND FIRE ALARM INTERFACE:

A. All motors furnished under this specification shall be recognized manufacturer and of adequate capacity for the loads involved. All motors shall conform to the standards of manufacturer and performance of the National Electrical Manufacturers Association as shown in their latest publications.

B. All motors 3/4 hp and above shall be high efficiency. Provide ECM motors where indicated. Any motor indicated for use with Variable Frequency Drives (VFD) shall be specifically designed for compatibility.

C. Disconnects and motor starters for equipment shall be by the Electrical Contractor unless furnished integral with the equipment or as otherwise indicated. Installation shall be by the Electrical Contractor except for devices factory installed and shipped with equipment. Provide manual or magnetic starters with necessary auxiliary contacts to accomplish the specified or required sequence of operation.

D. All temperature controls unless noted otherwise shall be the responsibility of the Mechanical Contractor.

E. All fire alarm devices including duct smoke detector and shut down/interlock wiring shall be the responsibility of the Electrical or Fire Alarm Contractor otherwise noted.

18.0 PIPING IN ELECTRICAL ROOMS:

A. No piping except specifically noted otherwise will be permitted in Electrical Rooms or Data Rooms including Server Rooms and IT Closets. In rooms where piping is indicated over or near electrical equipment, a suitable galvanized sheet metal pan or gutter piped to the drainage system shall be provided.

END OF SECTION

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Lankford Fendler & Associates	MEPF Engineer
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**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/28/2021

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

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Profession Name: MEP Consulting Engineer
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SPECIFICATIONS

MEP101

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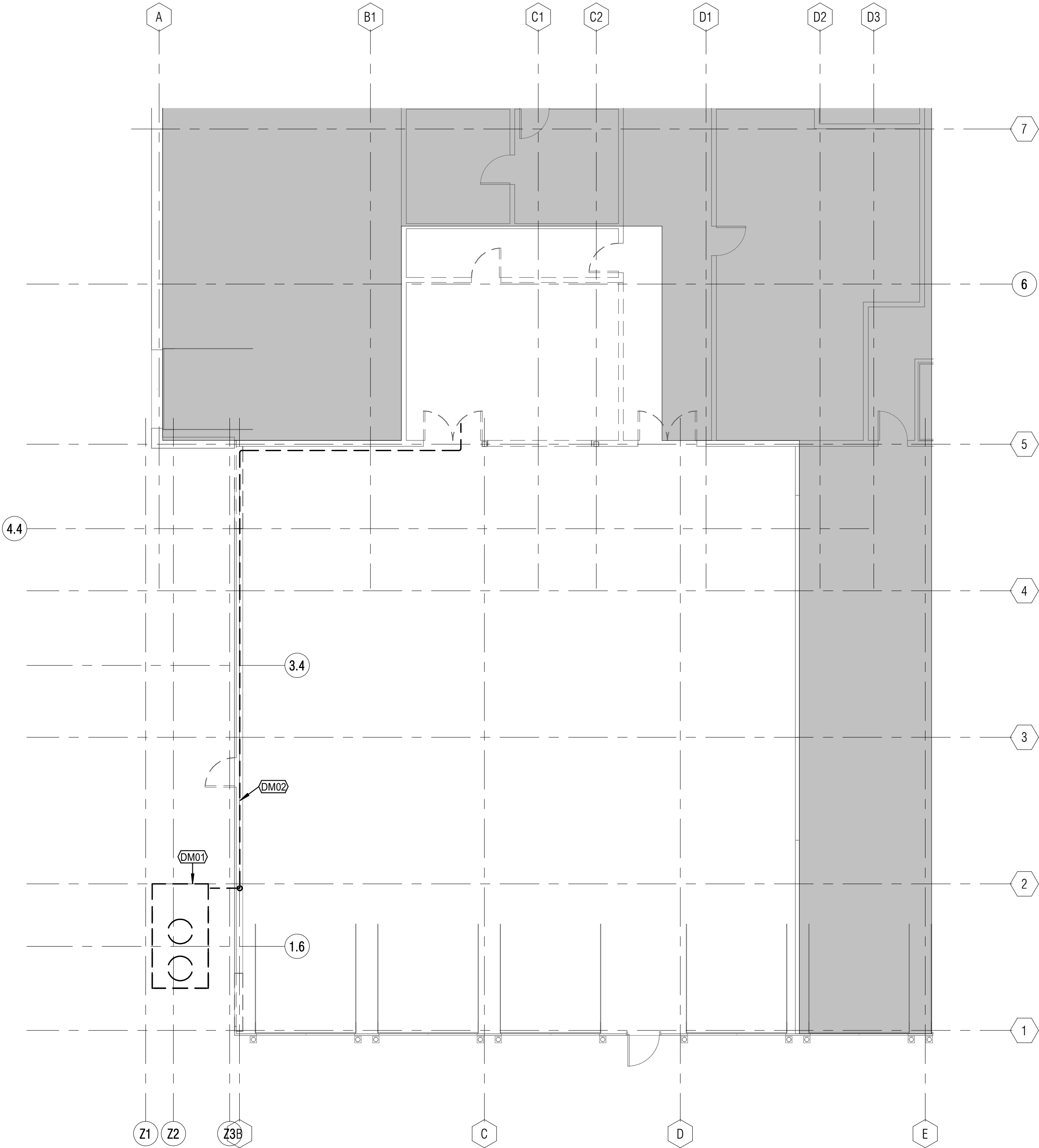
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Demolition - Floor Plan
Floor Plan - Level 1 & 2
Mechanical

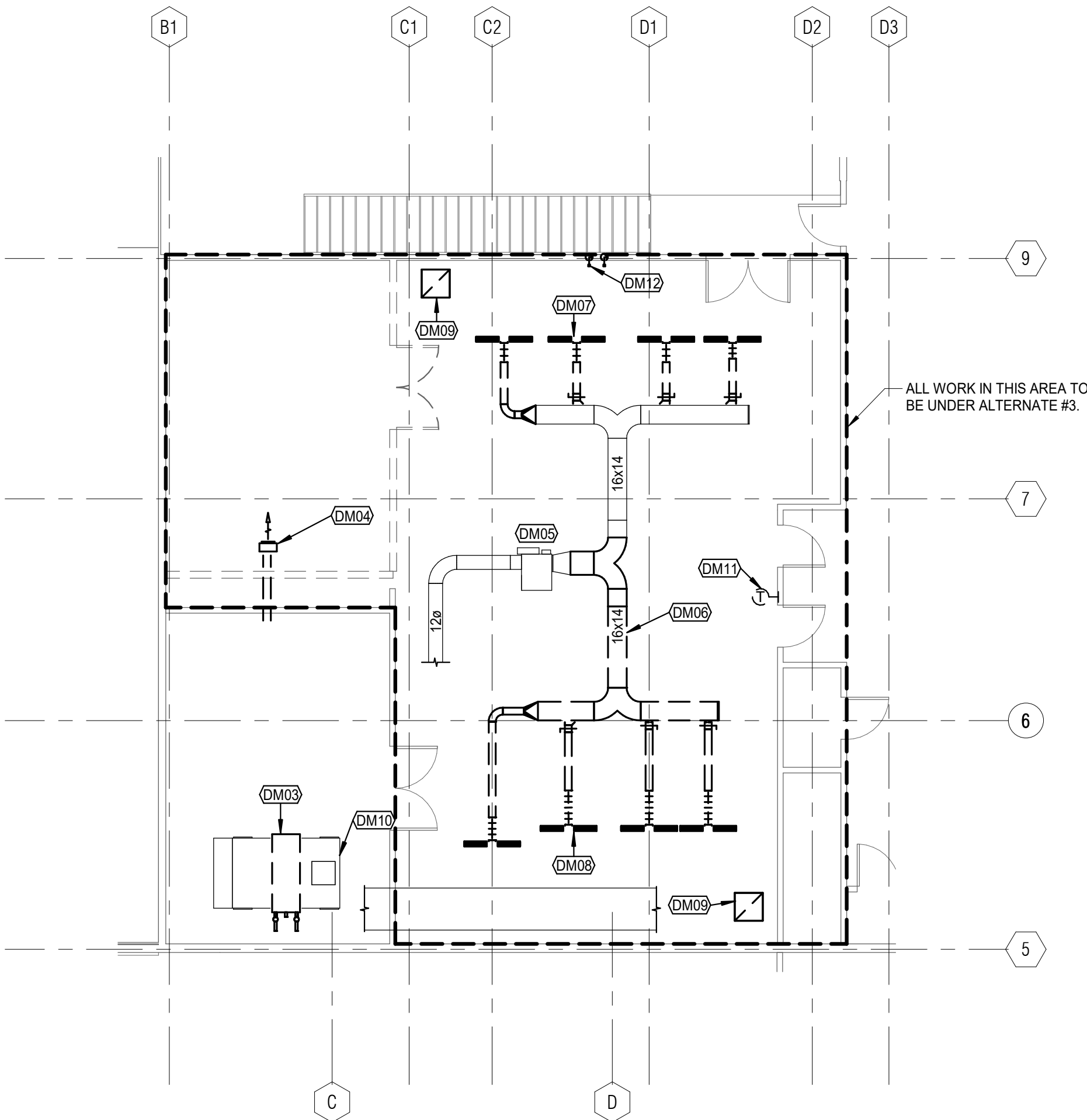
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DM01	REMOVE EXISTING CONDENSING UNIT AND ALL ASSOCIATED APPURTANCES, PIPING, ETC.
DM02	REMOVE EXISTING REFRIGERANT PIPING BACK TO ASSOCIATED AIR HANDLING UNIT ON SECOND FLOOR. REMOVE ALL ASSOCIATED HANGERS, ETC. AND PATCH PENETRATIONS TO MATCH EXISTING.
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 GRILLE.
DM10	ALTERNATE #2. REMOVE AND REPLACE EXISTING AIR HANDLING UNIT IN ITS ENTIRETY. MEASURE EXISTING SUPPLY AIR AND OUTSIDE AIR FLOW/PORT 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.



Demolition - Floor Plan - Level 1 - Mechanical



Demolition - Floor Plan - Level 2 - Mechanical

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L|F+a Project No. 21.6807.00
Alan W. Lankford - Managing Director - MO #024524
CDA # 02006001168

MCC Longview HT Addition/Renovation

500 SW Longview Road
Lee's Summit, MO 64081

Project 20008.00
No:

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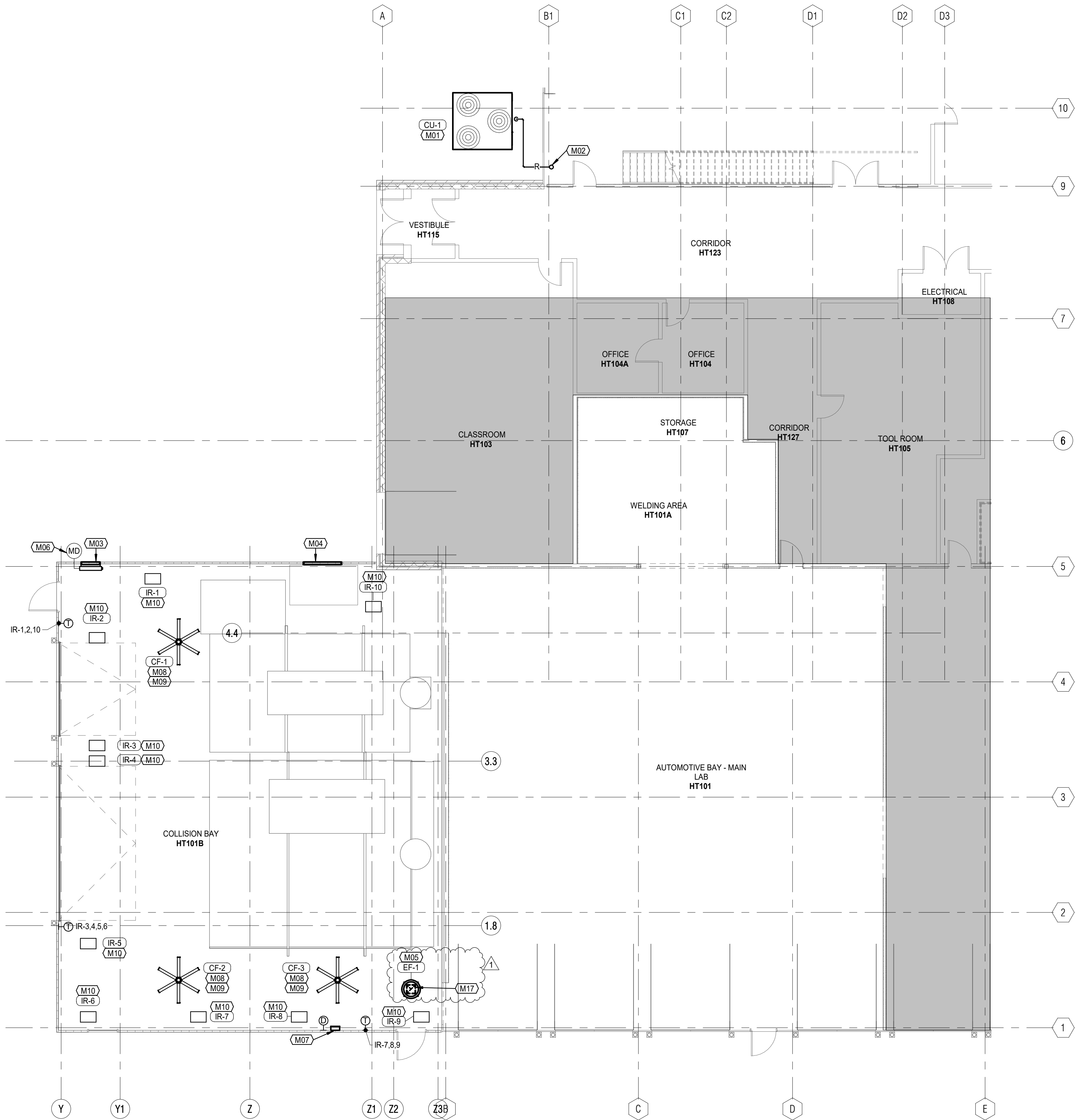
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 Profession Name: MEP Consulting Engineers
 Licensee Number: PE-2006037230

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

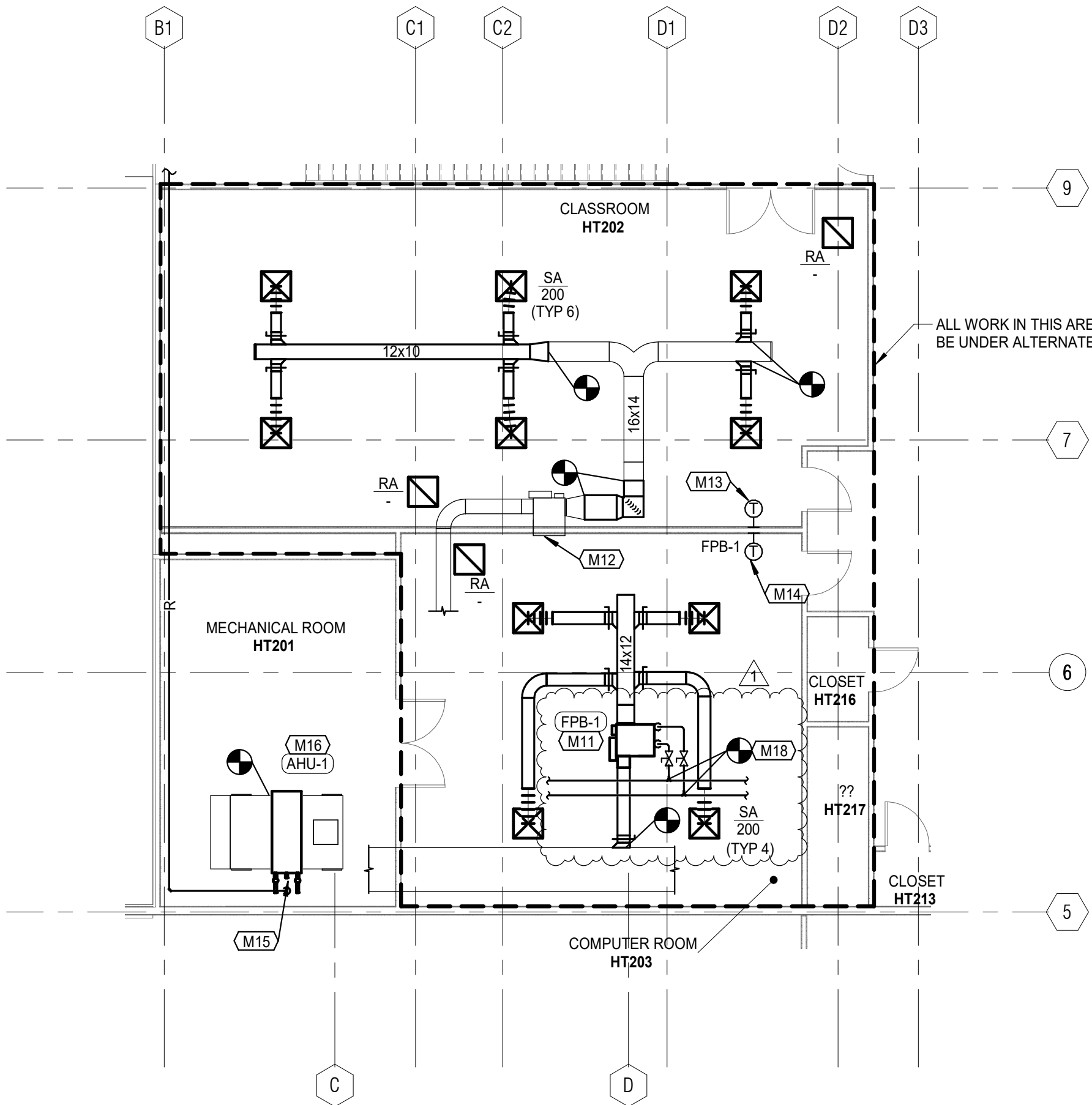
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M01	INSTALL NEW CONDENSING UNIT ON 4" CONCRETE HOUSEKEEPING PAD PER MANUFACTURER'S RECOMMENDATIONS. VERIFY LOCATION WITH MANUFACTURER FOR CLEARANCE. SHUT AS CLOSE AS POSSIBLE TO THE NORTH WALL.
M02	ROUTE REFRIGERANT PIPING THRU EXTERIOR WALL AND UP TO ABOVE 2ND FLOOR. COORDINATE ROUTING WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. SIZE PIPING PER MANUFACTURER'S RECOMMENDATIONS.
M03	INSTALL INTAKE LOUVER IN EXTERIOR WALL PER MANUFACTURER'S RECOMMENDATIONS. LOUVER SHALL BE GREENECK MODEL ESD-435 OR EQUAL, 30"x30" WITH KYNAR FINISH. COLOR TO BE SELECTED BY ARCHITECT. INSTALL LOUVER 12" ABOVE GRADE. COORDINATE EXACT LOCATION WITH ARCHITECT.
M04	INSTALL INTAKE LOUVER IN EXTERIOR WALL PER MANUFACTURER'S RECOMMENDATIONS. LOUVER SHALL BE GREENECK MODEL ESD-435 OR EQUAL, 60"x30" WITH KYNAR FINISH. COLOR TO BE SELECTED BY ARCHITECT. INSTALL LOUVER 12" ABOVE GRADE. COORDINATE EXACT LOCATION WITH ARCHITECT.
M05	INSTALL EXHAUST FAN ON ROOF PER MANUFACTURER'S RECOMMENDATIONS. RE: DETAIL. INSTALL MOTORIZED DAMPER PER MANUFACTURER'S RECOMMENDATIONS. INTERLOCK WITH EXHAUST FAN.
M07	PROVIDE CARBON MONOXIDE/NITROGEN DIOXIDE PANEL WITH SENSORS TO CONTROL EXHAUST SYSTEM. INSTALL AND LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATIONS.
M08	INSTALL CIRCULATION FAN PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH ARCHITECT.
M09	CIRCULATION FAN CONTROLLER INSTALL ABOVE LIGHT SWITCHES.
M10	SUSPEND INFRARED HEATER FROM STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.
M11	INSTALL NEW FAN POWERED BOX WITH JOIST SPACE PER MANUFACTURER'S RECOMMENDATIONS. CONNECT EXISTING DUCT TO EXISTING DUCT MAIN. CONNECT CONTROLS INTO EXISTING CONTROLS SYSTEM.
M12	REBALANCE EXISTING FAN POWERED BOX TO CFM INDICATED.
M13	RELOCATED THERMOSTAT. EXTENDED WIRING AS REQUIRED TO EXISTING FAN POWERED BOX.
M14	PROVIDE NEW DDC THERMOSTAT TO INTEGRATE NEW BOX INTO EXISTING CONTROLS SYSTEM.
M15	INSTALL NEW COOLING COIL IN EXISTING AIR HANDLING UNIT. CONNECT TO EXISTING CONDENSATE DRAIN PIPING. COIL SHALL BE ARRIER 435, 55"64"x66", 6-RROW, 8 FPI, 20.42 SFG AREA, 4.4 CFM. FIELD VERIFY EXACT DIMENSIONS PRIOR TO ORDERING. PROVIDE RETURN AIR SENSOR, SUPPLY AIR SENSOR AND AIRFLOW SWITCH IN EXISTING AIR HANDLING UNIT AND WIRE TO NEW CONDENSOR FOR PROPER OPERATION.
M16	ALTERNATE 2: INSTALL NEW AIR HANDLING UNIT. CONNECT TO EXISTING PIPING, DUCTWORK, CONTROLS, ETC. REINSTALL EXISTING CONTROLS FOR PROPER OPERATION. BALANCE SUPPLY AND OUTSIDE AIR FLOWRWS TO MATCH PREVIOUSLY MEASURED AIRFLOW.
M17	STUB 14"x14" DUCT DOWN TO 12" BELOW ROOF. PROVIDE 1'x1' GALVANIZED MESH OVER END OF DUCT.
M18	CONNECT NEW 3/4" HEATING HOT WATER PIPING TO EXISTING MAINS ABOVE CEILING. FIELD VERIFY EXACT LOCATION.



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



Phase 0 - Floor Plan - Level 2 - Mechanical

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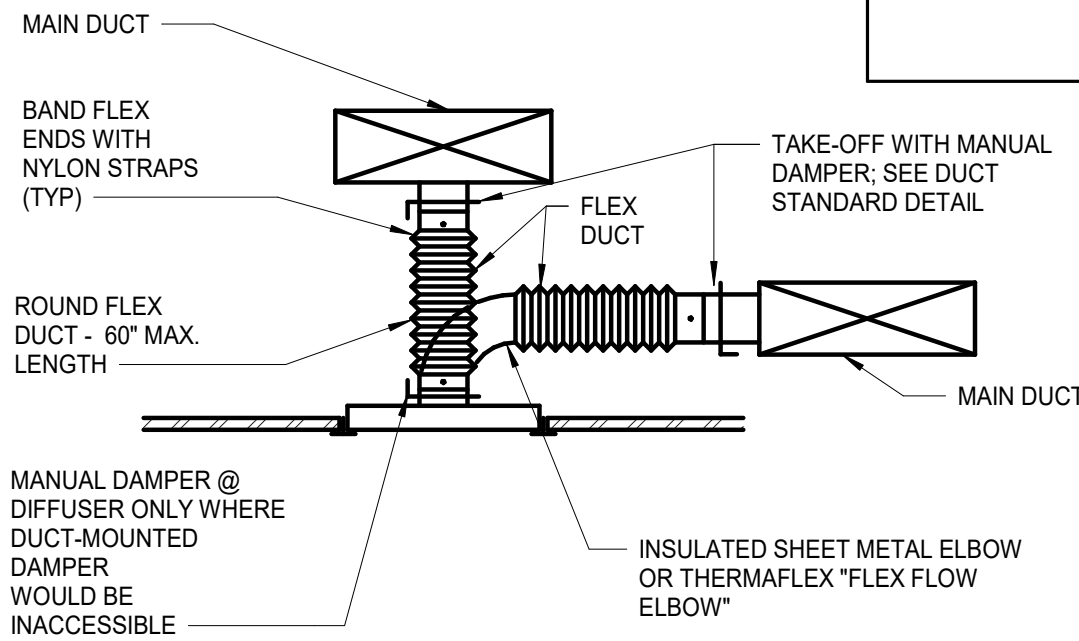
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L[F+a Project No. 21.6807.00
Alan W. Lankford - Mchlsn@lankford.com - MO #024224
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AIR HANDLING UNIT SCHEDULE

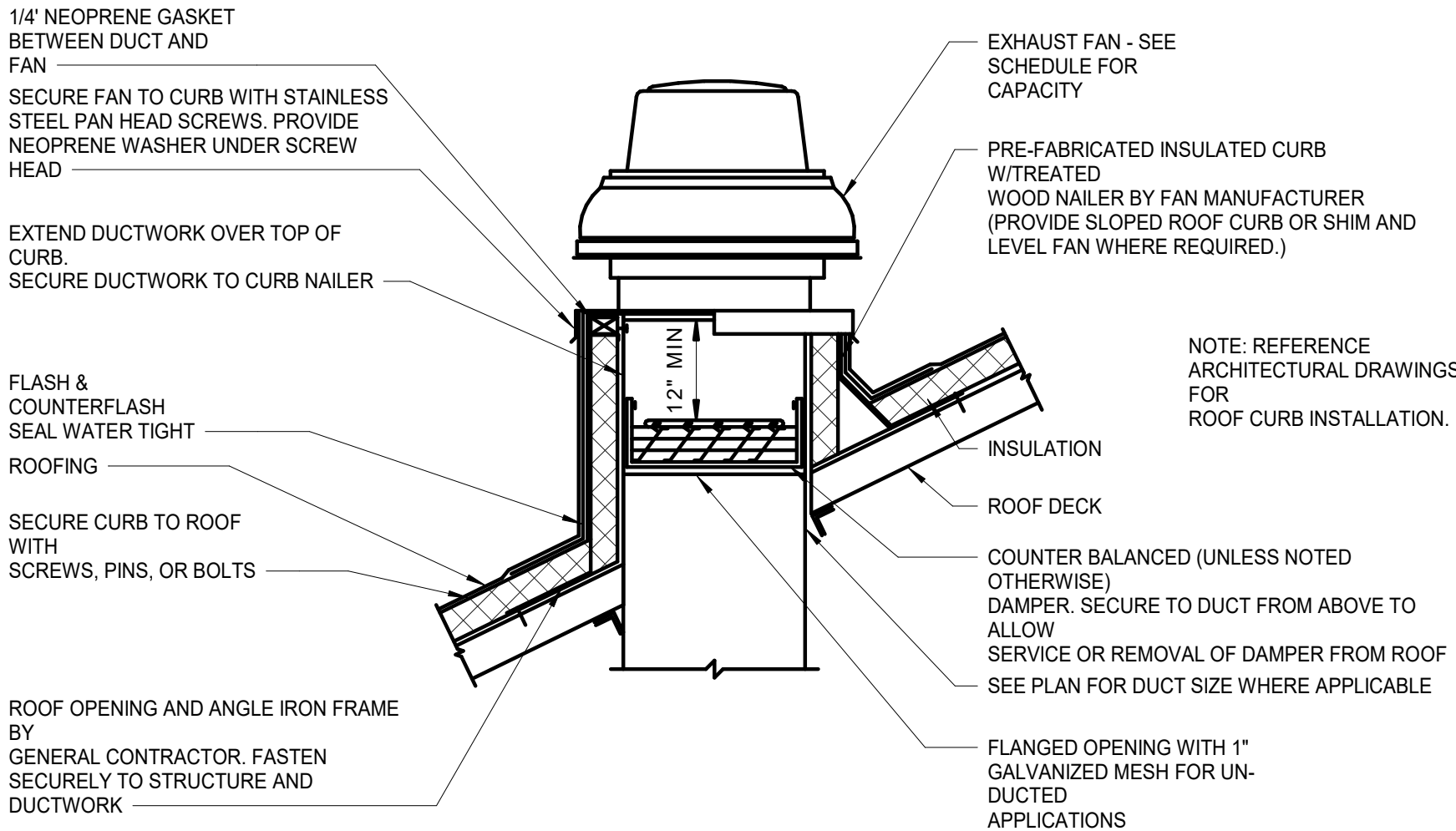
MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	FAN TYPE	FAN SIZE	FAN RPM	EXT. S.P. (IN W.G.)	TOTAL S.P. (IN W.G.)	COOLING COIL				TOTAL MBH	SENS. MBH	E.D.B. (°F)	L.D.B. (°F)	TOTAL MBH	ELECTRICAL			NOTES
									E.D.B. (°F)	E.W.B. (°F)	L.D.B. (°F)	L.W.B. (°F)						VOLT	ø	HZ	
AHU-1	CARRIER	39MN	9000	AIRFOIL	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.

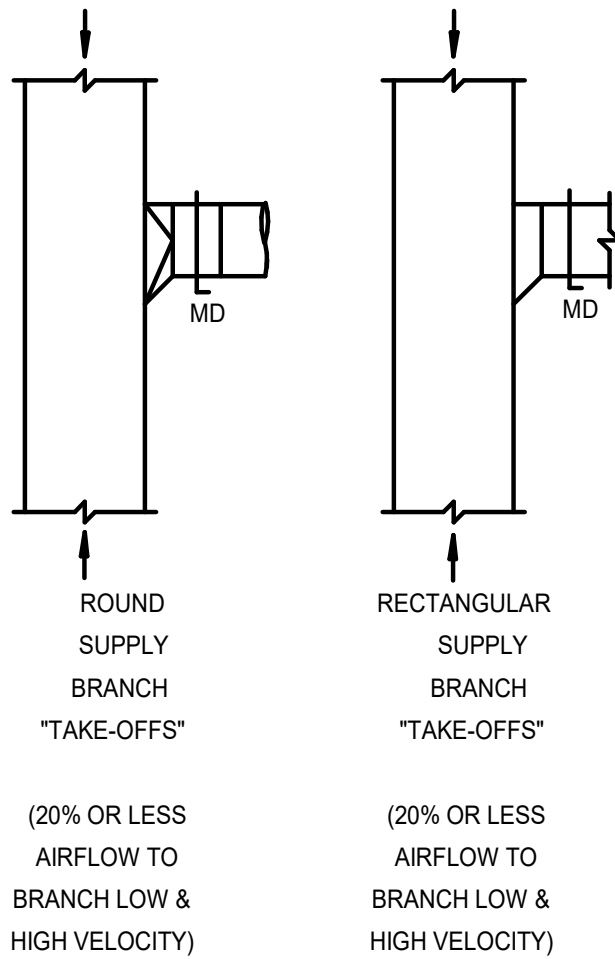


NOTE:
1. BRANCH DUCT RUNOUT TO DIFFUSER SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE INDICATED ON PLAN.
2. IN LOCATIONS WHERE TAKEOFFS ARE INSTALLED ABOVE HARD OR NON-ACCESSIBLE CEILINGS CONTRACTOR TO PROVIDE SCREWS TO PREVENT BRANCH DUCT FROM SLIDING OFF FITTING. INSPECT PRIOR TO CEILING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

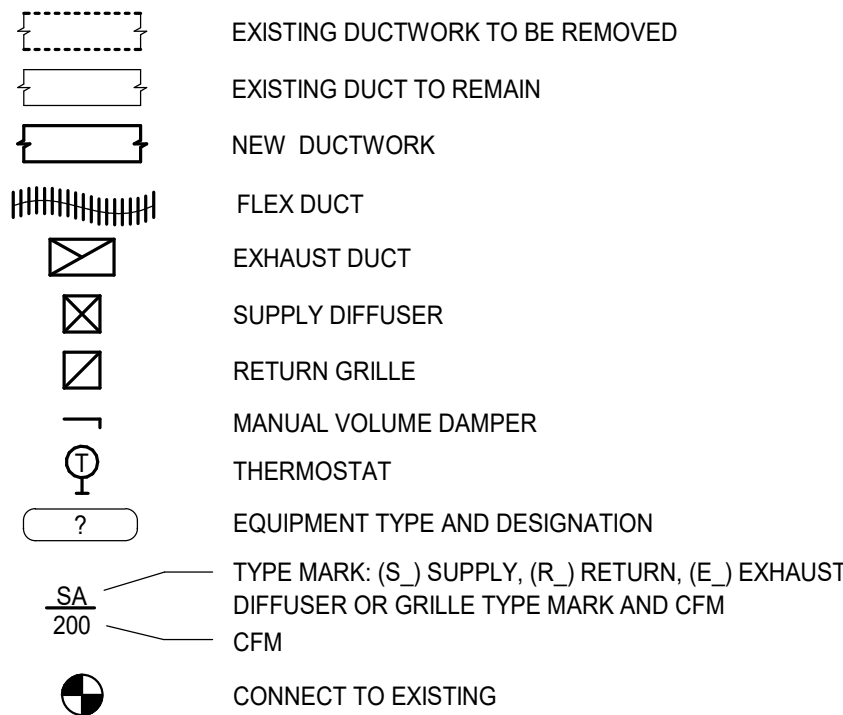
MARK NO.	MANUFACTURER	MODEL	TYPE	INPUT (MBH)	ELECTRICAL			NOTES
					VOLT	ø	HZ	
IR-1 THRU 10	SPACE RAY	RSCA3-N5	CERAMIC	26	120	1	60	1

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" FARR 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



MCC Longview HT Addition/Renovation

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

PERMIT/BID DOCUMENTS

Issue: September 23, 2021

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

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

MECHANICAL DETAILS, SCHEDULES, GENERAL
NOTES, AND SYMBOLS

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12/28/2021

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L1F+4 Project No. 21-6807-00
Alan W. Lankford - Mechanical Engineer - MO #004224
CDA #000001188

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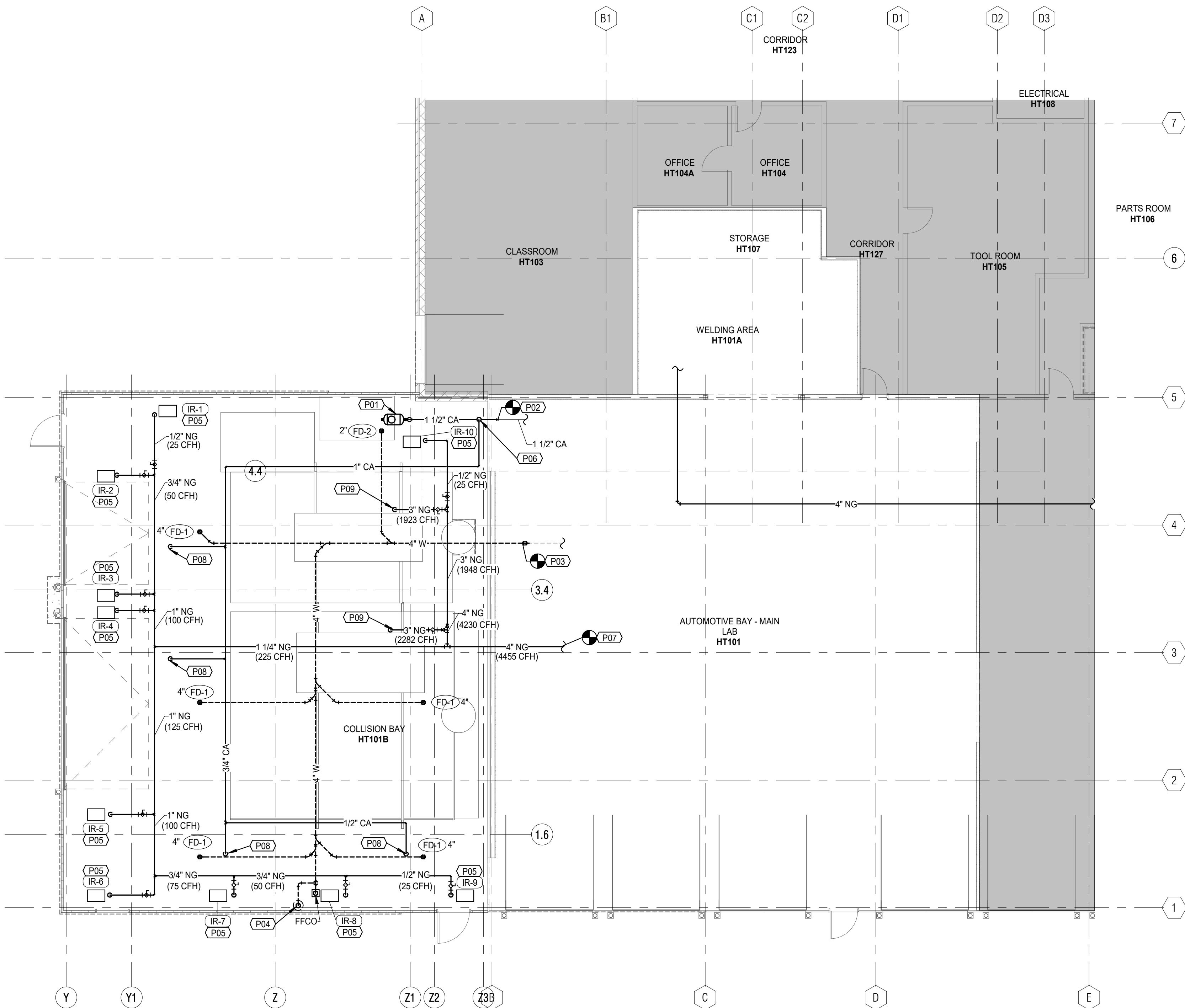
Phase 0 - Floor Plan - Level 1 - Plumbing

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P01	RELOCATE 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 DISCONNECTS TO EXISTING SAND/OIL 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.



Phase 0 - Floor Plan - Level 1 - Plumbing

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L|F+P Project No. 21.6807.00
Alan W. Lankford - Mechanical Engineer - MD #024254
CDA #2000021109

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"	-

PREFABRICATED RUBBER FLASHING

ROOFING

ROOF DECK

RUBBER GROMMETED SCREWS

PIPE SIZE AS INDICATED ON PLANS. (MIN. SIZE 3". INSULATE WHERE REQUIRED)

8" MIN.

The diagram illustrates a gas line tee. A horizontal pipe on the left is labeled "NATURAL GAS SUPPLY". A vertical pipe on the right is labeled "TO EQUIPMENT GAS TRAIN". A horizontal pipe at the bottom is labeled "DIRT LEG". A "GAS COCK" is shown on the horizontal supply pipe. An "ALTERNATE LOCATION" is shown on the vertical equipment gas train. A "UNION" is located on the vertical pipe. A dimension line indicates a minimum distance of "6" MIN." from the bottom of the tee to the union.

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Lee's Summit, Missouri
12/28/2021

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

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Seal



Sept. 23, 2021

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

Phase 0 - Floor Plan - Level 1 - Fire Protection

FP100

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FP01	<p>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.</p>
FP02	<p>PROTECT BENEATH OVERHEAD DOORS IN ACCORDANCE WITH NFPA 13.</p>
FP03	<p>PROTECT PAINT BOOTHS PER NFPA 13, SECTION 22.4 PROTECT SPRINKLERS IN BOOTHS WITH CELLOPHANE BAGS IN ACCORDANCE WITH NFPA 13 6.2.4.</p>
FP04	<p>COORDINATE LOCATIONS OF FIRE SPRINKLERS WITH HVLS FANS IN ACCORDANCE WITH NFPA 13, 12.1.4</p>
FP05	<p>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.</p>

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 $\pm 1/2"$ IN 2'x2' PORTION OF TILE. ALL SPRINKLERS IN GYP-BOARD CEILINGS ARE TO BE CENTERED $\pm 1/2"$ 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.

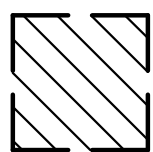
O. SPRINKLER SYSTEM SHALL BE TESTED AND DRAINED PER NFPA STANDARDS AND LOCAL AND STATE AUTHORITY HAVING JURISDICTION.COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES SHALL BE FORWARDED TO OWNER.

P. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH FIRE ALARM PANEL AND SUPERVISION OF NEW SPRINKLER TAMPER AND FLOW SWITCHES.

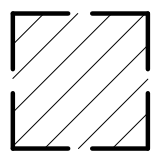
Q. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

R. SPRINKLER HEAD PLACEMENT SHALL BE OUT OF THE SWING AREA OF DOORS TO AVOID CONFLICT WITH TALL DOORS.

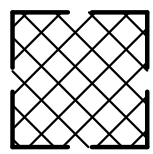
RECONFIGURE EXISTING BASE BUILDING FIRE SPRINKLER LAYOUT WITHIN THIS AREA IN ORDER TO PROVIDE PROPER COVERAGE PER NFPA 13 AND LOCAL AUTHORITIES. ALL REMOVED / RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. NEW SPRINKLERS TO MATCH EXISTING. REFER TO REFLECTED CEILING PLANS FOR COORDINATION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



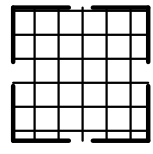
LIGHT HAZARD - PROVIDE PROPER COVERAGE PER NFPA 13 (0.1 GPM PER 1500 SF) PLUS 100 GPM HOSE STREAM ALLOWANCE.



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.

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

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Alan W. Lankford - Managing Director - MO #024524
CDA # 02006001168

MCC Longview HT Addition/Renovation

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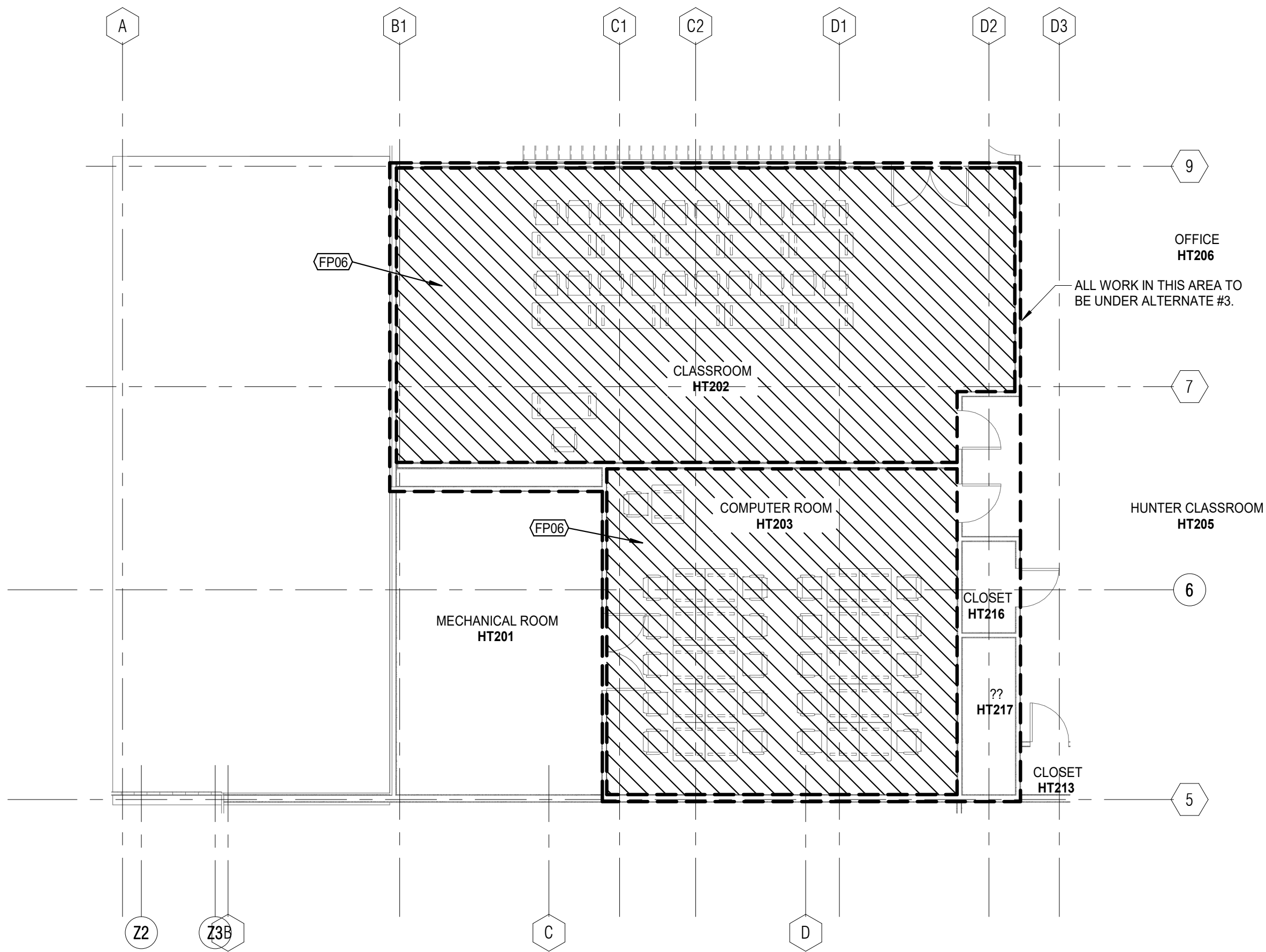
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Profession Name: MEP Consulting Engineers
Licensee Number: PE-2006037230

Phase 0 - Floor Plan - Level 2 - Fire Protection

FP101

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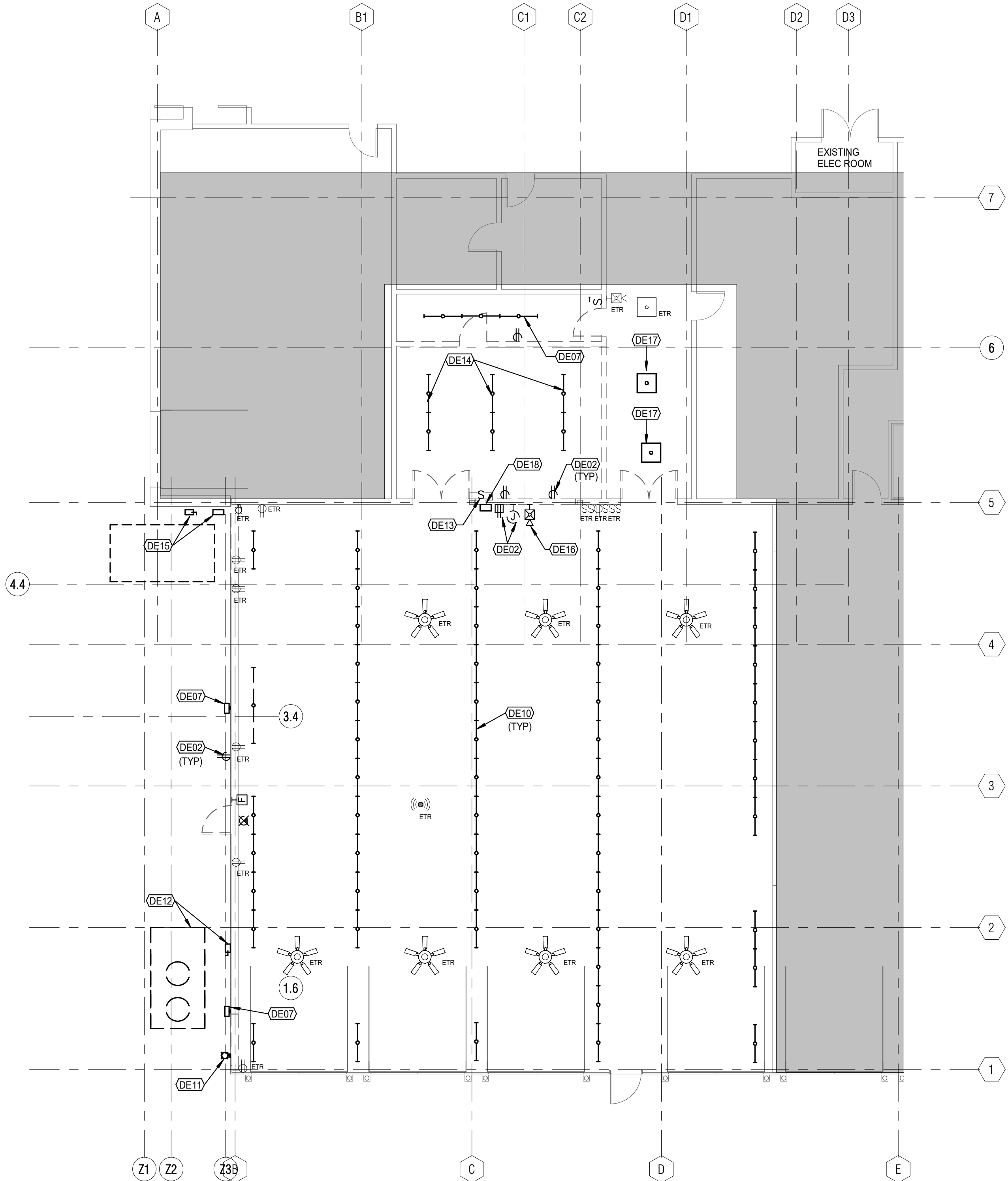
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 Profession Name: MEP Consulting Engineers
 Licensee Number: PE-2006037230

Demolition - Floor Plan - Level 1 & 2 - Electrical

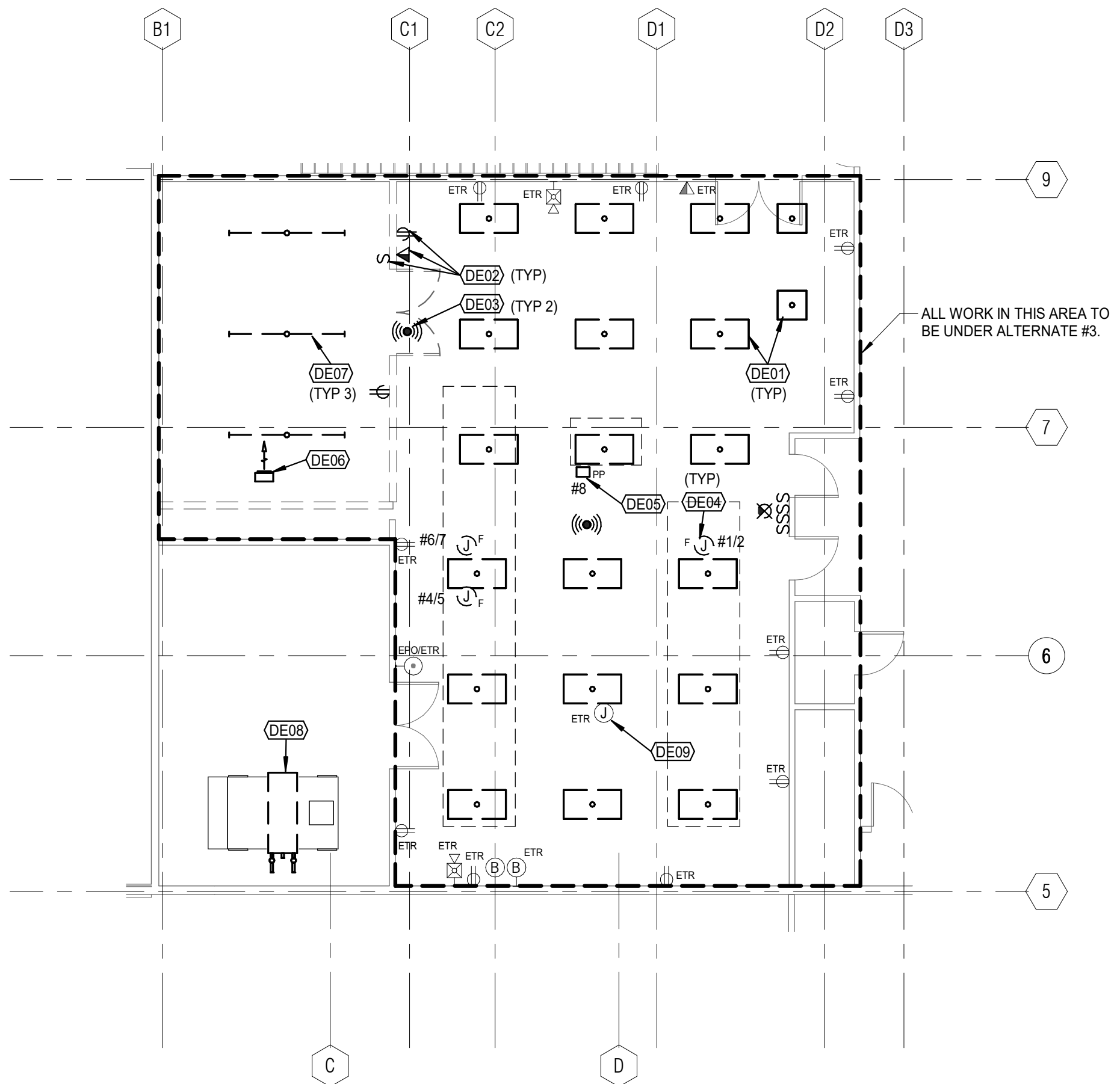
DE100

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DE01	DISCONNECT EXISTING LIGHT FIXTURES, REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE. MAINTAIN CIRCUITRY FOR REUSE.
DE02	DISCONNECT AND REMOVE EXISTING WIRING DEVICES, REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE.
DE03	COORDINATE WITH OWNER FOR DISCONNECT AND REMOVAL OF EXISTING WIFI EQUIPMENT.
DE04	DISCONNECT EXISTING FURNITURE, REMOVE EXISTING FLOOR MOUNTED J-BOX, MAINTAIN CIRCUITRY FOR REUSE. REFERENCE POWER/SYSTEM PLAN FOR ADDITIONAL INFORMATION.
DE05	DISCONNECT EXISTING POWER POLE, MAINTAIN CIRCUIT FOR REUSE.
DE06	DISCONNECT AND REMOVE POWER FROM EXISTING UNIT HEATER, REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE.
DE07	DISCONNECT EXISTING LIGHT FIXTURES, REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE.
DE08	ALTERNATE #2, DISCONNECT EXISTING AHU, AFTER UNIT HAS BEEN REPLACED, RECONNECT FEEDER TO NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATION.
DE09	MAINTAIN POWER TO EXISTING PROJECTOR LOCATION.
DE10	ALTERNATE #5, WITHIN EXISTING BAY GARAGE AREA, DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND PROVIDE NEW FIXTURES AS INDICATED ON NEW WORK LIGHTING PLAN. PROVIDE ALL MODIFICATION, CONDUIT AND WIRING AS REQUIRED TO COMPLETE INSTALLATION.
DE11	COORDINATE WITH OWNER FOR REMOVAL OF SECURITY CAMERA.
DE12	DISCONNECT EXISTING AHU, REMOVE DISCONNECT, CONDUIT AND WIRING, MAINTAIN FEEDER AND CONDUIT FOR RECONNECTION TO NEW AHU.
DE13	CONTRACTOR TO COORDINATE WITH OWNER FOR WALL MOUNTED DEVICES ABOVE DOOR TO BE RELOCATED.
DE14	DISCONNECT EXISTING LIGHT FIXTURES IN THIS ROOM AND REMOVE CONDUIT AND WIRING BACK TO LAST USED SOURCE.
DE15	DISCONNECT AND REMOVE J-BOXES, DISCONNECT ETC., FROM EXISTING AIR COMPRESSOR SHED, MAINTAIN FEEDER AND CONDUIT WITHIN BUILDING FOR RECONNECTION, MAINTAIN DISCONNECT WITHIN THE SHED FOR REUSE.
DE16	DISCONNECT AND RELOCATED FIRE ALARM DEVICE DOWN THE WALL.
DE17	CONTRACTOR TO SHIFT LIGHTS OVER TO ACCOMMODATE NEW WALL, PROVIDE LONGER FIXTURES WHIPS IF REQUIRED.
DE18	DISCONNECT EXISTING MACRO AIR SYSTEM, MAINTAIN CIRCUITRY AS REQUIRED FOR RELOCATION, REFERENCE SYSTEM PLANS.



Demolition - Floor Plan - Level 1 - Electrical



Demolition - Floor Plan - Level 2 - Electrical

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

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Alan W. Lankford - Mechanical Engineer - MO #024224
COA #2006001168

Development Services Department
Lee's Summit, Missouri
12/28/2021

Issued: September 23, 2021

[illegible]

A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the name "GREGORY J. FENDLER" and the license number "NUMBER PE-600303720". There are blue ink scribbles over the seal.

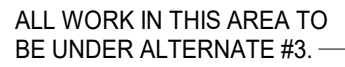
Phase 0 - Floor Plan - Level 1 & 2 - Power

E100

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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. S1PFFBLK OR EQUAL. CONTRACTOR TO HARDWARE/SURFACE WIRING 1/8" BELOW DESK. 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. S1P74XBLL 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.



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

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+ associates

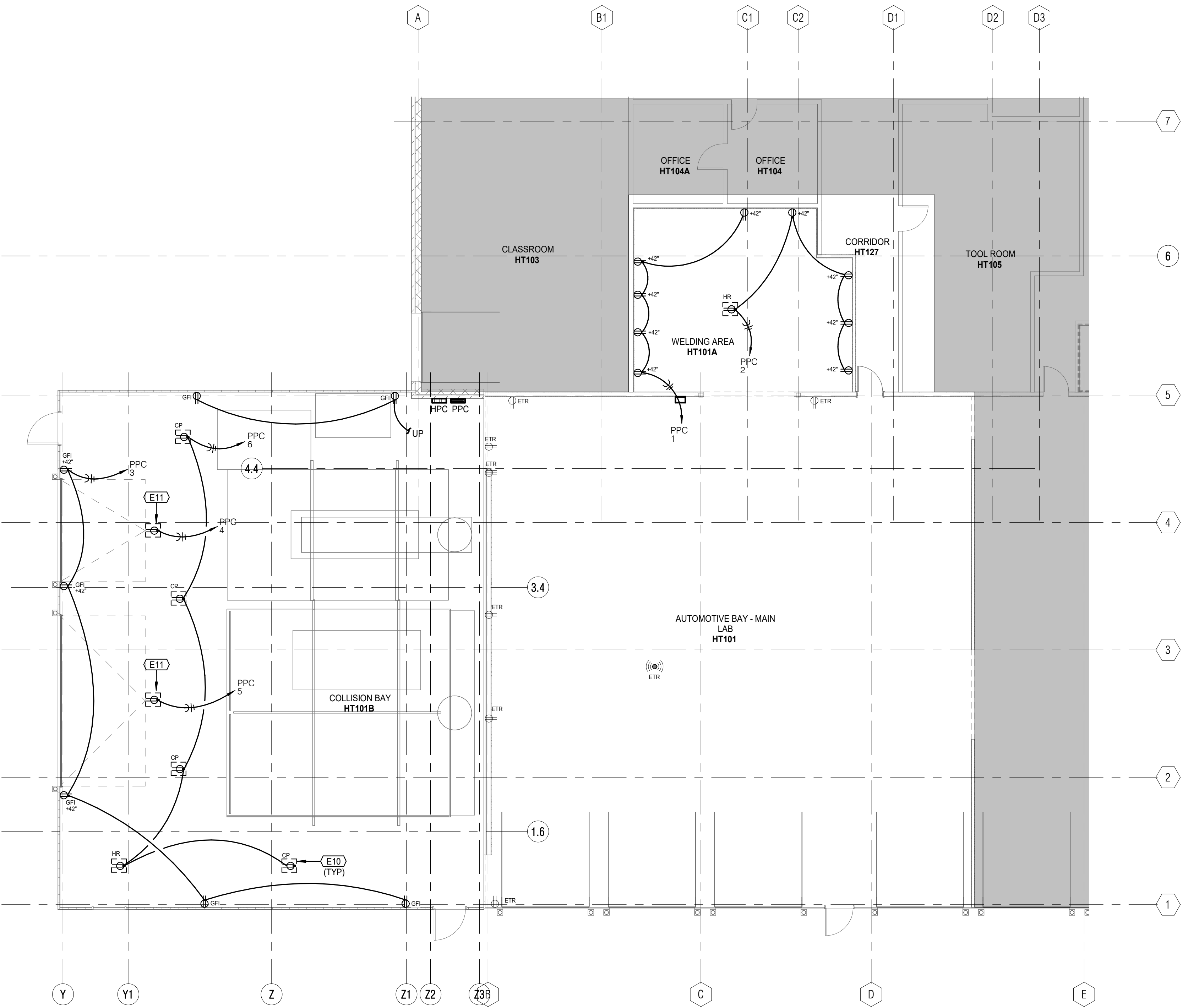
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SCALE: 1/8" = 1'-0"



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 NUMBER
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 PROFESSIONAL ENGINEER

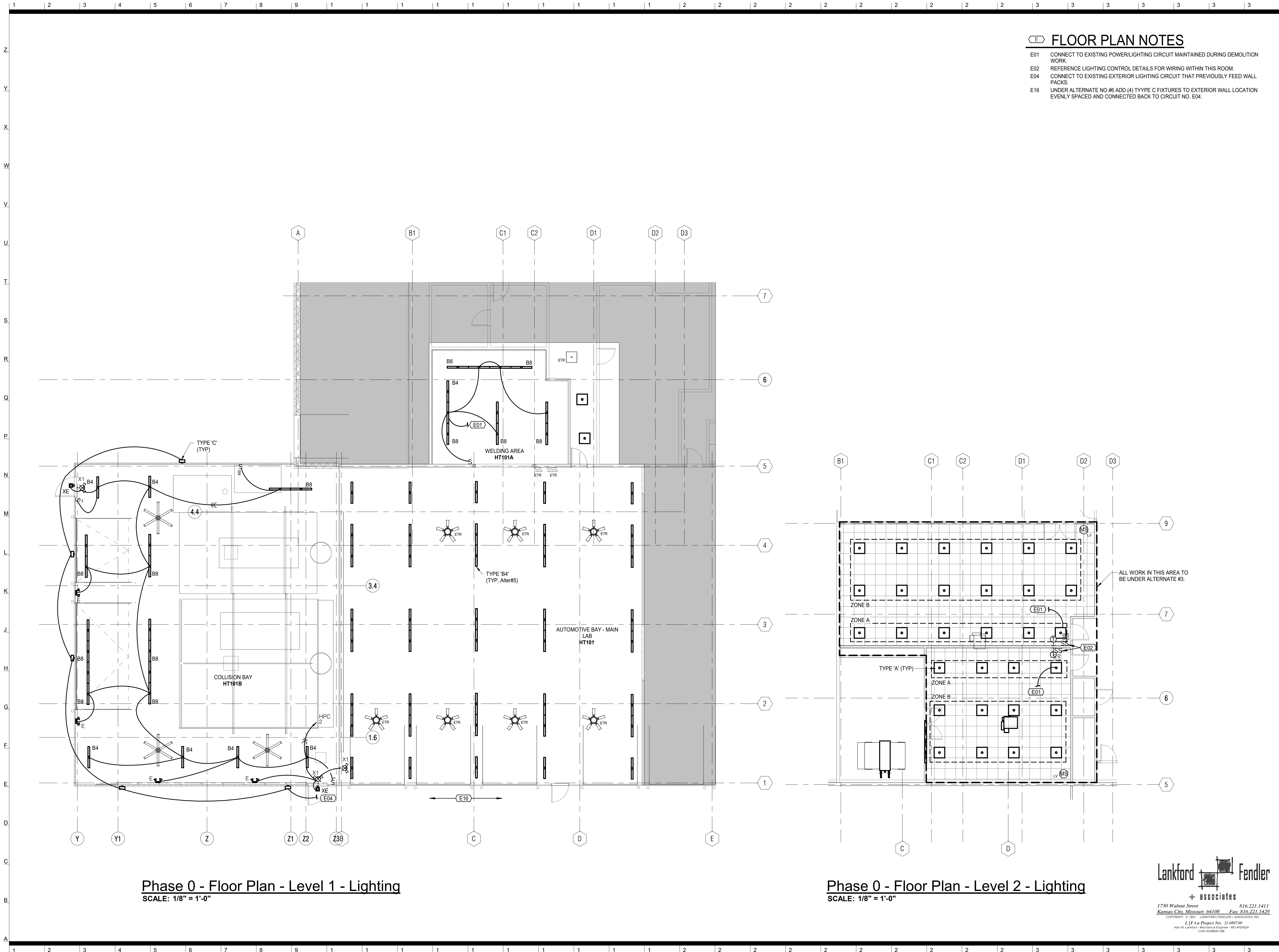
Sept. 23, 2021

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

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

E200

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Lee's Summit, Missouri
12/28/2021

MCC Longview HT
Addition/Renovation

500 SW Longview Road
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No:

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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
License Number: PE-2006037230

Lighting Photometrics

E201

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 80% 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

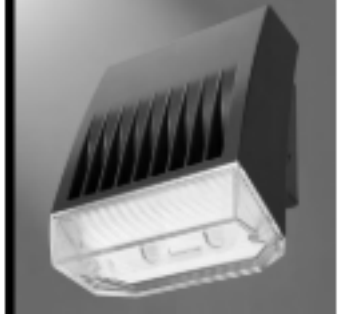
Optional integral cold weather battery emergency egress includes emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide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

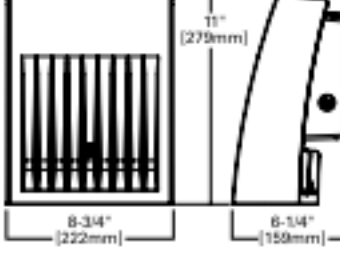
EPA
Effective Projected Area (Sq. Ft.):
XTOR8B, XTOR8B, XTOR12B=0.54

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

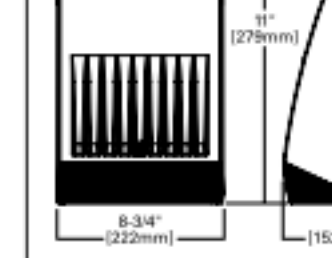
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DIMENSIONS

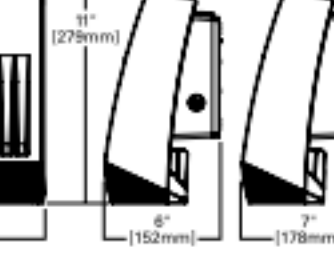
FULL CUTOFF



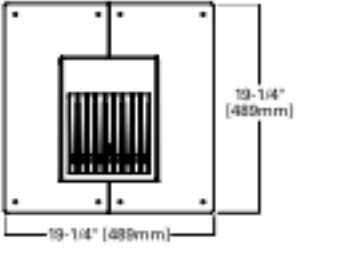
DEEP BACK BOX



REFRACTIVE LENS



ESCUTCHEON PLATES



COOPER
Lighting Solutions

*www.designlights.org

XTOR CROSSTOUR MAXX LED

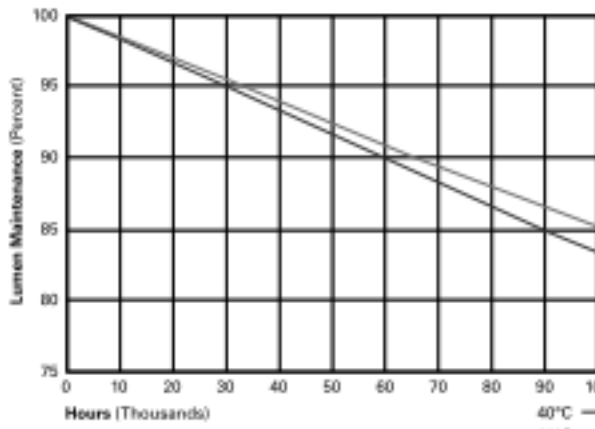
page 2

POWER AND LUMENS BY FIXTURE MODEL

	58W Series					
	XTOR8B	XTOR8BRL	XTOR8B-W	XTOR8BRL-W	XTOR8B-Y	XTOR8BRL-Y
LED Information						
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					
	XTOR8B	XTOR8BRL	XTOR8B-W	XTOR8BRL-W	XTOR8B-Y	XTOR8BRL-Y
LED Information						
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					
	XTOR12B	XTOR12BRL	XTOR12B-W	XTOR12BRL-W	XTOR12B-Y	XTOR12BRL-Y
LED Information						
Delivered Lumens	12,728	13,458	12,539	13,254	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%	219,000
40°C	> 87%	195,000
50°C	> 86%	181,000
XTOR12B Model		
25°C	> 89%	222,000
40°C	> 87%	198,000



CURRENT DRAW

Voltage	Model Series				
	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

Cooper Lighting Solutions
1151 Highway 70 South
Pawnee, CO 80659
P: 770-486-4000
www.cooperlighting.com

Specifications and
drawings subject to
change without notice.

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PHOTOMETRIC PLAN-PAVED AREA

SCALE: 1" = 20'-0"

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

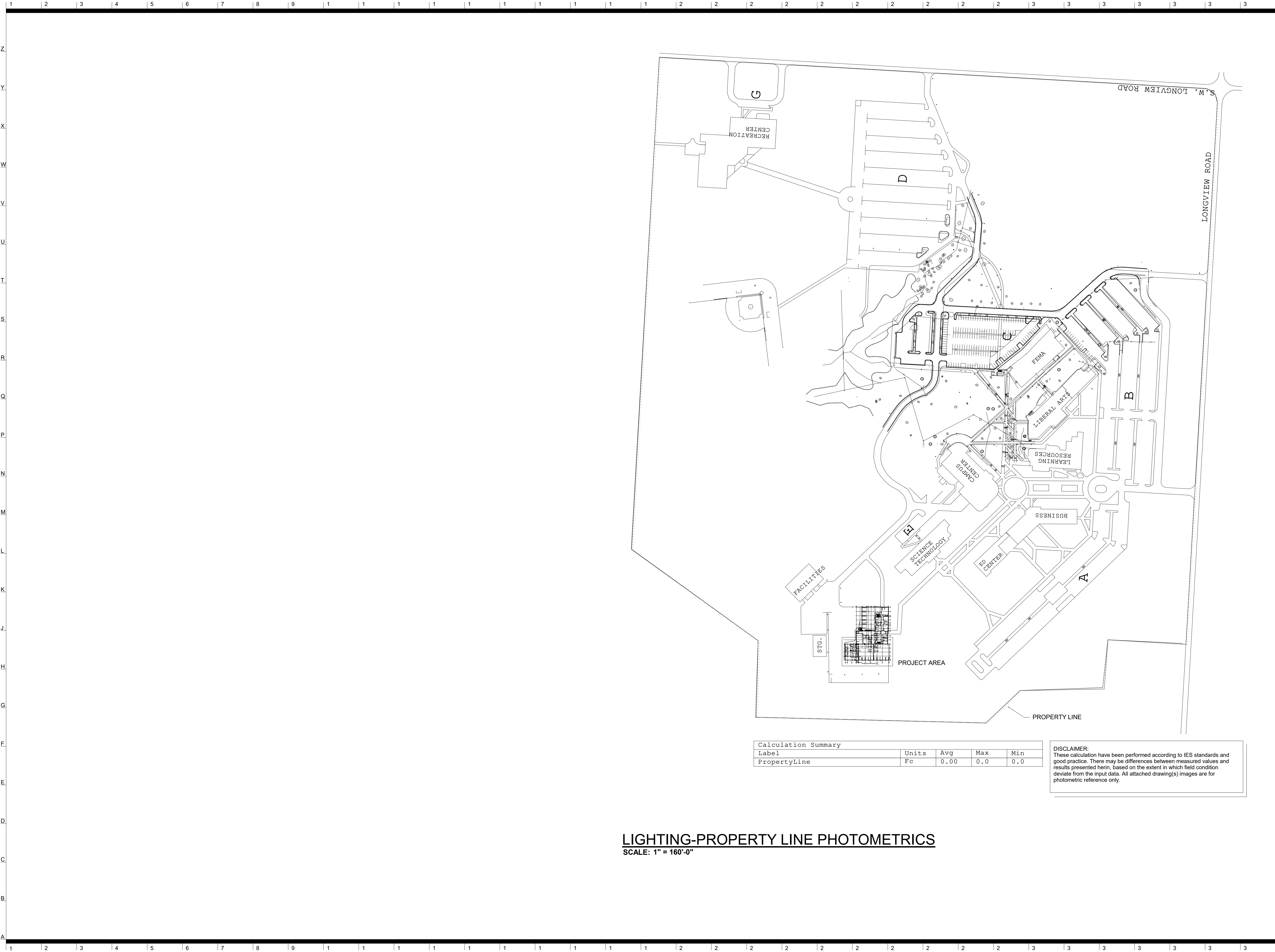
Calculation Summary				
Label	Units	Avg	Max	Min
Paved Area	Fc	2.25	17.3	0.0
PropertyLine	Fc	0.00	0.0	0.0

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.

HIGH
TECHNOLOGY

STG.



Calculation Summary				
Label	Units	Avg	Max	Min
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 herein, based on the extent in which field condition deviate from the input data. All attached drawing(s) images are for photometric reference only.

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



BNIM **Archit**
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p.619.795.9920 f.816.783.1501

KH Engineering Group **Structural Engineer**
13426 West 90th Street, Johnson County, Lenexa, KS 66215
913-825-9381
Certificate of Authority

Taliaferro & Browne **Civil Engineer**
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816-283-2466

Lankford Fendler + Associates **MEPF Engineer**
1730 Walnut Street, Jackson County, Kansas City, MO 64108
816-221-1411

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/28/2021

MCC Longview HT Addition/Renovation

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

Seal

LIGHTING PHOTOMETRIC

E202

**MCC Longview HT
Addition/Renovation**

500 SW Longview Road
Lee's Summit, MO 64081

Project No: 20008.00

Issued: September 23, 2021

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Seal



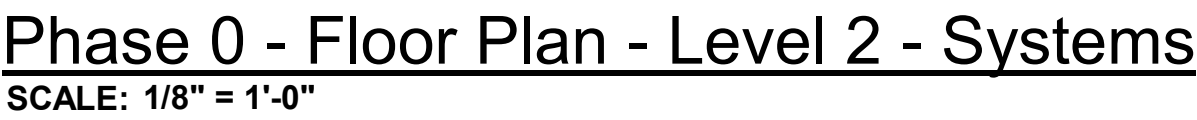
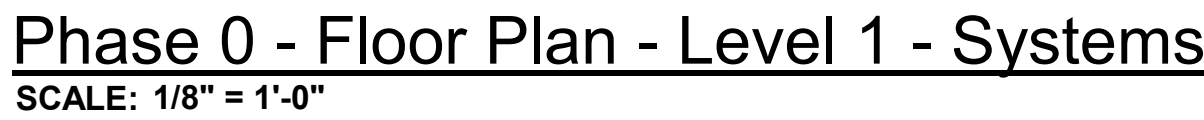
License Name: Gregory J. Fendler
Profession Name: MEP Consulting Engineers
Licensee Number: PE-2006037230


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

E300

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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 DISCONNECT SWITCH. MAKE CONNECTION TO UNIT WITH #4-3 & 1#6 CONDUIT. ROUTE BACK AND CONNECT TO EXISTING 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. ROUTE 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 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.



Lankford  **Fendler**
+ associates

1730 Walnut Street 816.221.1411
Kansas City, Missouri 64108 **Fax: 816.221.1429**

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L|F+a Project No. 21.6807.00
Alan W. Lankford - Mechanical Engineer - MCO #054224
CIDA # 2006001169

**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/28/2021

500 SW Longview Road
Lee's Summit, MO 64081

PERMIT/BID DOCUMENTS[illegible]

Seal of the Professional Engineer, Gregory J. Fendler, State of Missouri, License Number PE-2009037220, expires Sept. 23, 2021.

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

ELECTRICAL DETAILS

E400

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Electrical Riser Diagram

NOT TO SCALE



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Branch Panel: HPC															
Location: COLLISION BAY HT101B						Volts: 277/480 Wye						A.I.C. Rating:			
Supply From:						Phases: 3						Mains Type:			
Mounting: Surface						Wires: 4						Mains Rating: 100 A			
Enclosure: Type 1															
Notes:															
Notes	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	Notes
1	1	IDD DOWN DRAFT BOOTH	20 A	3	2.1			0.578			1	20 A	LTG; COLLISION BAY	2	
					2.1			0	1	20 A	SPARE	4	--		
						2.1			0	1	20 A	SPARE	6	--	
1	7	IDD DOWN DRAFT BOOTH	30 A	3	5.8			0			--	--	PROVISION	8	--
					5.8			0		--	--	PROVISION	10	--	
						5.8		0		--	--	PROVISION	12	--	
1	13	MCD CROSS DRAFT BOOTH	30 A	3	7.5			0			--	--	PROVISION	14	--
					7.5			0		--	--	PROVISION	16	--	
						7.5		0		--	--	PROVISION	18	--	
1	15	MCD CROSS DRAFT BOOTH	30 A	3						0	--	--	PROVISION	20	--
								0		--	--	PROVISION	22	--	
								0		--	--	PROVISION	24	--	
1	17	MCD CROSS DRAFT BOOTH	30 A	3	5.5			0			--	--	PROVISION	26	--
					5.5			0		--	--	PROVISION	28	--	
						5.5			0		--	--	PROVISION	30	--
--	25	PROVISION	--	--	0			0			--	--	PROVISION	32	--
--	27	PROVISION	--	--		0			0		--	--	PROVISION	34	--
--	29	PROVISION	--	--			0			0	--	--	PROVISION	36	--
--	31	PROVISION	--	--	0			0			--	--	PROVISION	38	--
--	33	PROVISION	--	--		0			0		--	--	PROVISION	40	--
--	35	PROVISION	--	--			0			0	--	--	PROVISION	42	--
--	37	PROVISION	--	--	0			0			--	--	PROVISION		
--	39	PROVISION	--	--		0			0		--	--	PROVISION		
--	41	PROVISION	--	--			0			0	--	--	PROVISION		
					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		Total Conn. Load: 63278 VA						
Other			6 VA		100.00%		6 VA		Total Conn. Current: 76 A						
Power			0 VA		0.00%		0 VA		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.														
2.															
3.															
4.															
5.															
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						Volts: 120/208 Wye						A.I.C. Rating:			
Supply From:						Phases: 3						Mains Type: MLO			
Mounting: Surface						Wires: 4						Mains Rating: 100 A			
Enclosure: Type 1															
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:															
1.															
2.															
3.															
4.															
5.															
GENERAL NOTES:															

